

TEST REPORT

Applicant Name : Shenzhen Ipetmon Creative Technology Co., Ltd.
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Report Number : 2504V05608E-RF-00B
FCC ID: 2A4A7-PTM-40A1

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Automatic Pet Feeder
Model No.: PTM-40A1
Trade Mark: N/A
Date Received: 2025-07-04
Date of Test: 2025-07-11 to 2025-08-03
Report Date: 2025-08-07

Test Result:	The EUT complied with the standards above.
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Prepared and Checked By:

Matt_Liang

Matt Liang
EMC Engineer

Approved By:

Bob.Liao

Bob.Liao
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504V05608E-RF-00B	Original Report	2025-08-07

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Automatic Pet Feeder
Tested Model	PTM-40A1
Voltage Range [#]	DC 5V from adapter 4 x 1.5V LR6AA Battery (not included) for backup
Adapter Information [#]	Model: TPA-418G050100UU01 Input: 100-240V~, 50/60Hz 0.3A Output: 5.0V ---1.0A 5.0W

Frequency Range	2.4G Wi-Fi: 2412-2462MHz
Mode	802.11b/g/n20
Maximum Conducted Output Power(Peak)	23.32dBm
Modulation Technique	DSSS, OFDM
Antenna Specification [#]	1.95dBi (It is provided by the applicant.)
Sample Serial Number	365Y-1 (For CE&RE Test),34RF-1 (For RF Conducted Test) (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, and KDB 558074 D01 15.247 Meas Guidance v05r02.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5 %
RF Frequency		0.064×10^{-7}
RF output power, conducted		0.3 dB
Unwanted Emission, conducted		1.2 dB
AC Power Lines Conducted Emissions		2.7 dB
Emissions, Radiated	9kHz - 30MHz	2.1 dB
	30MHz - 1GHz	4.3 dB
	1GHz - 18GHz	4.9 dB
	18GHz - 26.5GHz	5.2 dB
Temperature		1 °C
Humidity		7 %
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

Description of Test Configuration

For 2.4G Wi-Fi, total 11 channels are provided to testing:

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

802.11b, 802.11g, 802.11n20 mode was tested with Channel 1, 6 and 11.

Note: The device has two power supply options: adapter power and dry cell battery power. Radiated Spurious Emissions(Below 1GHz) is tested both power supply modes, while Radiated Spurious Emissions(Above 1GHz) is used only tested for the adapter power supply mode.

EUT Exercise Software and Power Level[#]

Exercise Software:		AmebaD_mptool_2V1		
Mode	Data Rate	Power Level		
		Low Channel	Middle Channel	High Channel
802.11 b	1Mbps	80	80	80
802.11 g	6Mbps	84	84	84
802.11 n20	MCS0	84	84	84

Note 1: The information in the above table is provided by the applicant.

Note 2: The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Duty Cycle

Test result: Please refer to Appendix.

Support Equipment List and Details

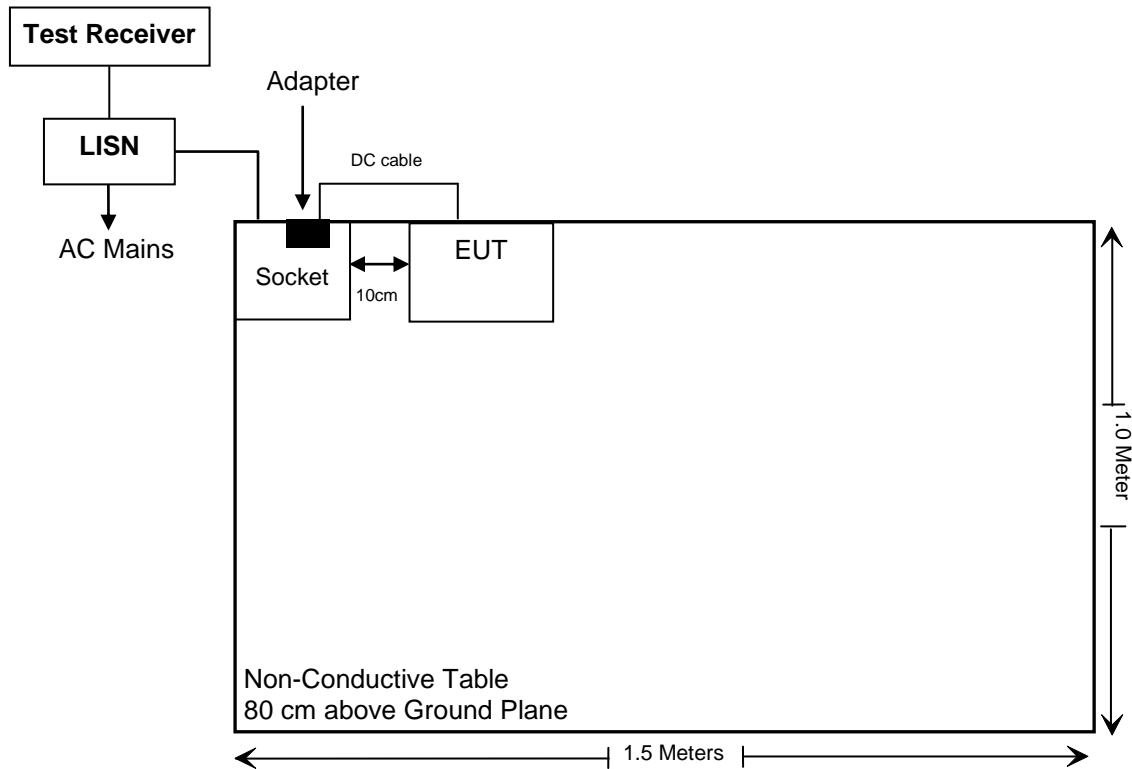
Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Shielding Type	Length (m)	From Port	To
DC Cable	NO	1.5	Adapter	EUT

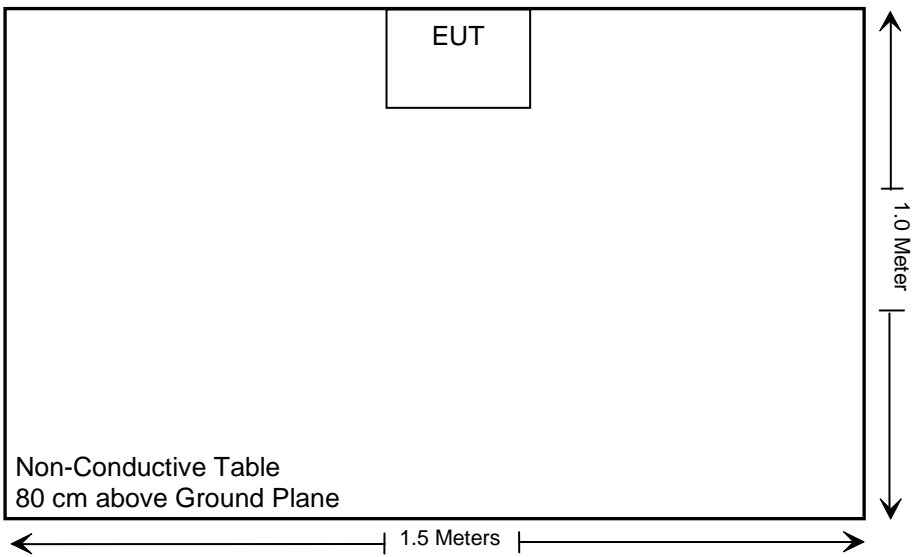
Block Diagram of Test Setup

For Conducted Emission:

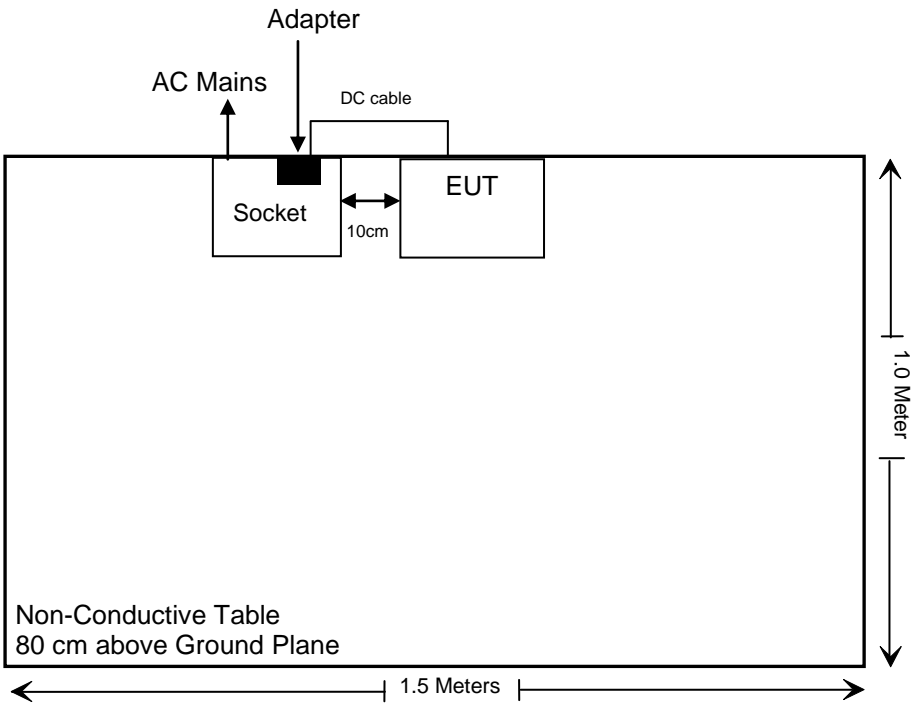


For Radiated Emission(Below 1GHz):

For Battery

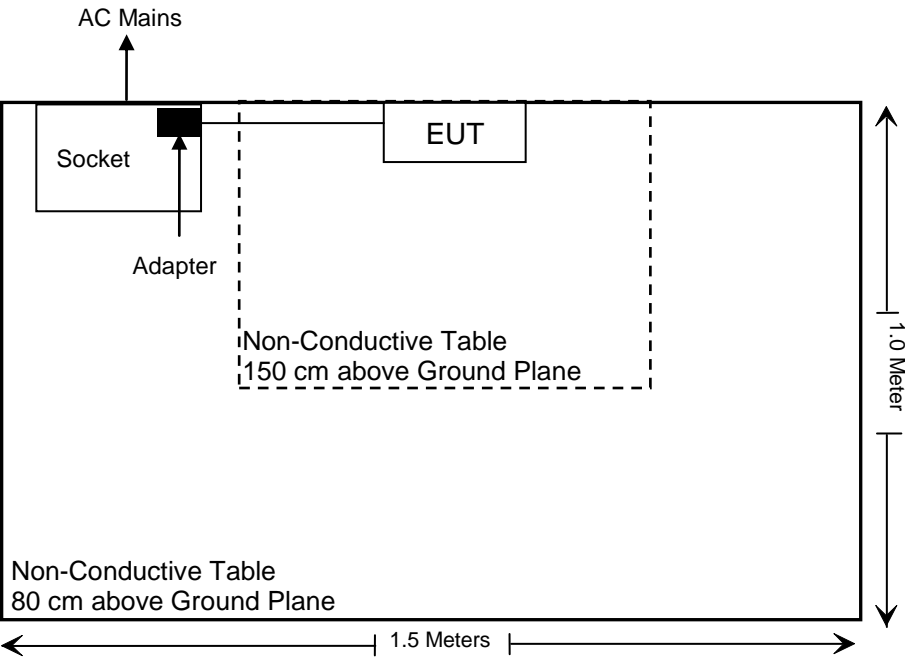


For Adapter



For Radiated Emission(Above 1GHz):

For Adapter



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207(a)	AC Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions	Compliance
§15.247(a)(2)	6 dB Emission Bandwidth &Occupied Bandwidth	Compliance
§15.247(b)(1)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

- Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.
- Note 2: For Radiated Spurious Emissions 9kHz~1GHz/18GHz~25GHz, the maximum output power mode and channel was tested.
- Note 3: This device is installed vertically in Y-axes orientation. It was provided by applicant. The Y-axes orientation was tested and recorded in the report.
- Note4: The cable loss is 0.5dB, which was added into the all RF test results.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	100784	2024/11/08	2025/11/07
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2024/11/08	2025/11/07
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2024/10/08	2025/10/07
Rohde & Schwarz	Pulse Limiter	ESH3-Z2	100312	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.17	N0350	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Below 1GHz)					
Rohde & Schwarz	Test Receiver	ESR	102725	2024/11/08	2025/11/07
SONOMA INSTRUMENT	Amplifier	310N	186131	2025/03/26	2026/03/25
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2024/08/08	2027/08/07
Unknown	RF Coaxial Cable	No.12	N040	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.13	N300	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.14	N800	2025/05/30	2026/05/29
BACL	LOOP ANTENNA	1313-1A	3110711	2024/01/16	2027/01/15
Test Software: e3 191218 (V9)					
Radiated Spurious Emission Test(Above 1GHz)					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101949	2024/10/08	2025/10/07
Decentest	Filter Switch Unit	DT7220FSU	DQ77927	2024/10/08	2025/10/07
Decentest	Multiplex Switch Test Control Set	DT7220CSU	DQ77924	2024/10/08	2025/10/07
A.H. Systems, inc.	Preamplifier	PAM-0118	226	2025/03/26	2026/03/25
Schwarzbeck	Horn Antenna	BBHA9120D	837	2023/02/22	2026/02/21
Unknown	RF Coaxial Cable	No.10	N050	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.11	N1000	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.19	N500	2025/05/30	2026/05/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2023/12/12	2026/12/11
BACL	Amplifier	BACL-1313-A1840	4012521	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.15	N600	2025/05/30	2026/05/29
Unknown	RF Coaxial Cable	No.16	N650	2025/05/30	2026/05/29
Test Software: e3 191218 (V9)					

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted test					
Rohde & Schwarz	Spectrum Analyzer	FSV-40	101495	2024/10/08	2025/10/07
Anritsu	Microwave Peak Power Sensor	MA24418A	12619	2025/03/26	2026/03/25
Agilent	10dB Attenuator	8491B	A5825	2024/10/08	2025/10/07
Test Software: JDAutoTestSystem V1.0.0					

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. 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 - 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.

Antenna Connector Construction

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

Frequency Range	Antenna gain
2412-2462MHz	1.95dBi

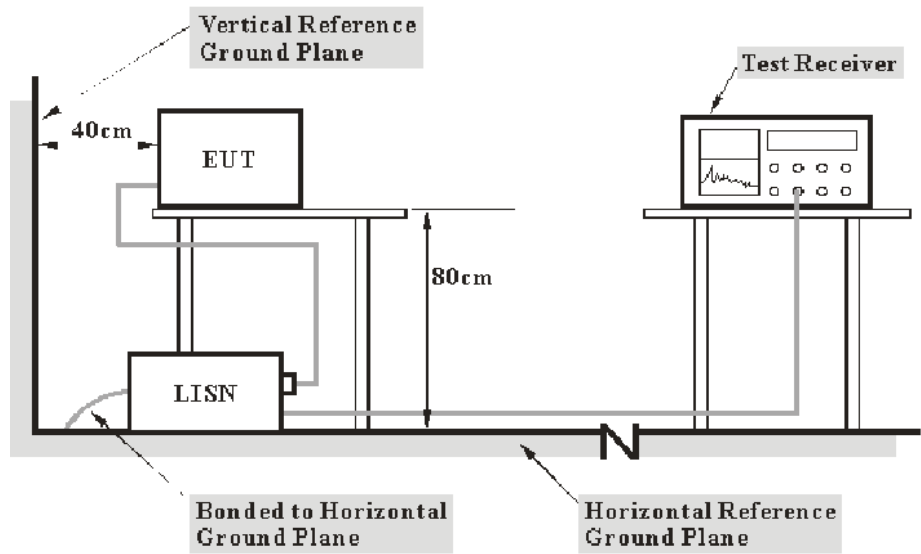
Result: Compliance.

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a).

EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.
The spacing between the peripherals was 10 cm.

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.

Calculation

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

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

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

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

Test Data

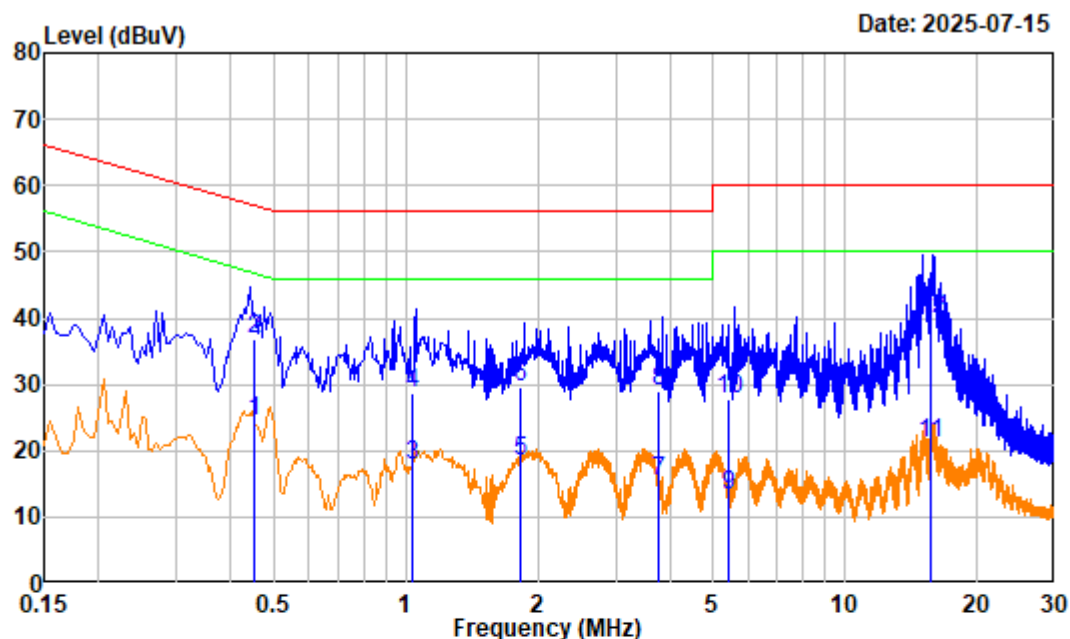
Environmental Conditions

Temperature:	23.6 °C
Relative Humidity:	43 %
ATM Pressure:	100.2 kPa
Test Engineer:	Jason Fan
Test Date:	2025-07-15
EUT Operation Mode:	2.4G WIFI Transmitting

Test Result: Compliance, please refer to the below data.

Note: The maximum output power mode and channel: 802.11g Low Channel was tested.

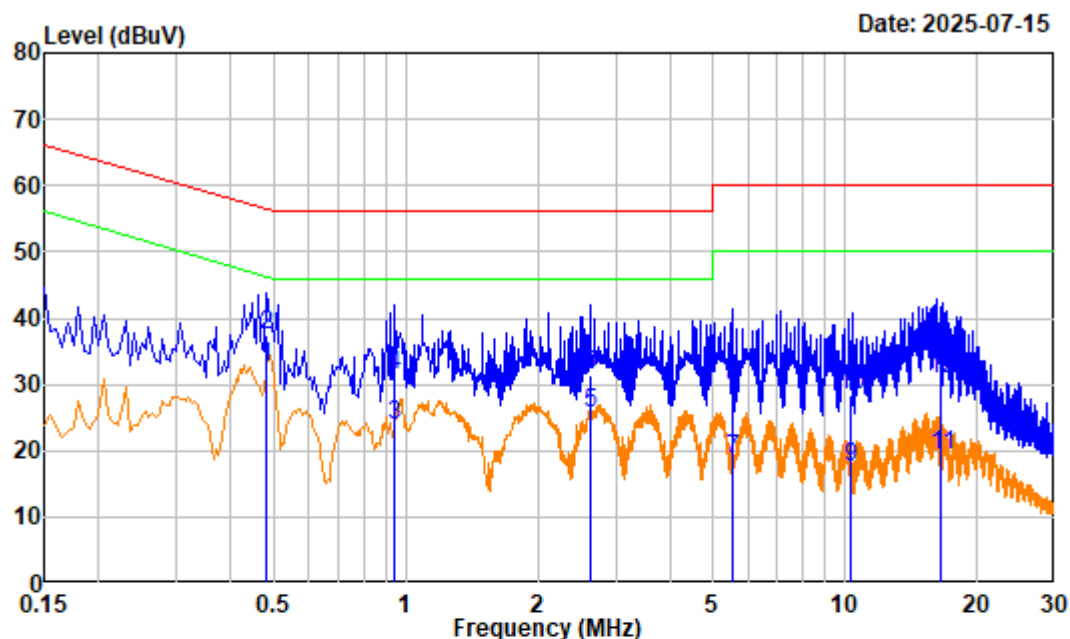
AC 120V/60Hz, Line:



Site : Shielding Room
 Condition : Line
 Project No. : 2504V05608E-RF Tester: Jason Fan
 Test Mode : 2.4G WIFI Transmitting
 Note : Adapter
 Receiver Setting: IF B/W 9kHz PK/AV

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.450	20.01	4.48	24.49	46.87	-22.38	Average
2	0.450	20.01	16.89	36.90	56.87	-19.97	QP
3	1.031	20.35	-2.49	17.86	46.00	-28.14	Average
4	1.031	20.35	8.33	28.68	56.00	-27.32	QP
5	1.828	20.48	-2.19	18.29	46.00	-27.71	Average
6	1.828	20.48	9.12	29.60	56.00	-26.40	QP
7	3.775	21.41	-6.09	15.32	46.00	-30.68	Average
8	3.775	21.41	7.55	28.96	56.00	-27.04	QP
9	5.446	21.79	-8.54	13.25	50.00	-36.75	Average
10	5.446	21.79	5.85	27.64	60.00	-32.36	QP
11	15.629	23.54	-2.51	21.03	50.00	-28.97	Average
12	15.629	23.54	16.31	39.85	60.00	-20.15	QP

AC 120V/60Hz, Neutral:



Site : Shielding Room
 Condition : neutral
 Project No. : 2504V05608E-RF Tester: Jason Fan
 Test Mode : 2.4G WIFI Transmitting
 Note : Adapter
 Receiver Setting: IF B/W 9kHz PK/AV

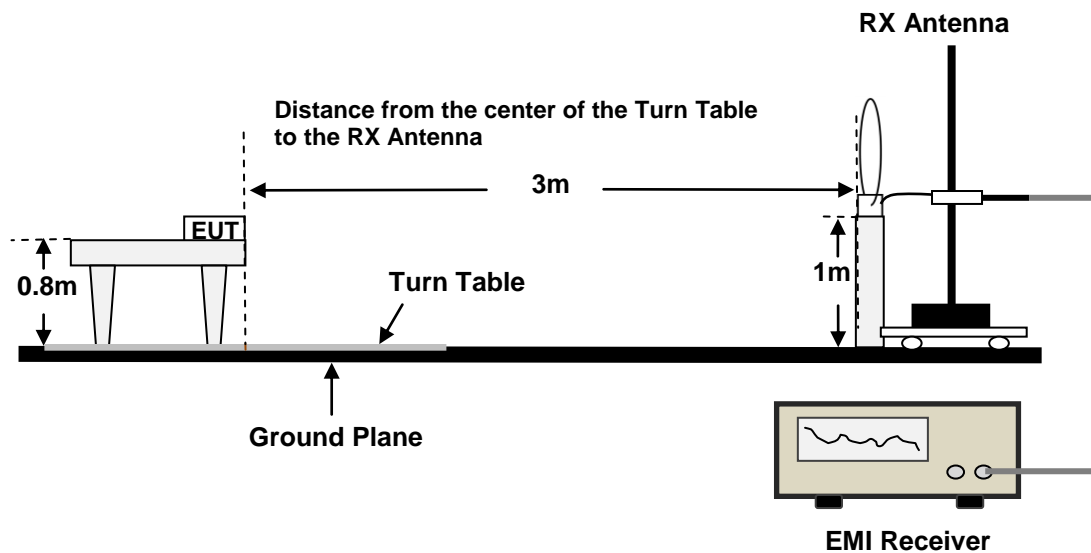
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.480	20.02	12.44	32.46	46.34	-13.88	Average
2	0.480	20.02	17.51	37.53	56.34	-18.81	QP
3	0.943	20.40	3.48	23.88	46.00	-22.12	Average
4	0.943	20.40	10.89	31.29	56.00	-24.71	QP
5	2.637	21.10	4.52	25.62	46.00	-20.38	Average
6	2.637	21.10	10.25	31.35	56.00	-24.65	QP
7	5.515	21.84	-3.11	18.73	50.00	-31.27	Average
8	5.515	21.84	7.82	29.66	60.00	-30.34	QP
9	10.251	22.94	-5.42	17.52	50.00	-32.48	Average
10	10.251	22.94	5.34	28.28	60.00	-31.72	QP
11	16.532	23.71	-4.41	19.30	50.00	-30.70	Average
12	16.532	23.71	7.01	30.72	60.00	-29.28	QP

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS**Applicable Standard**

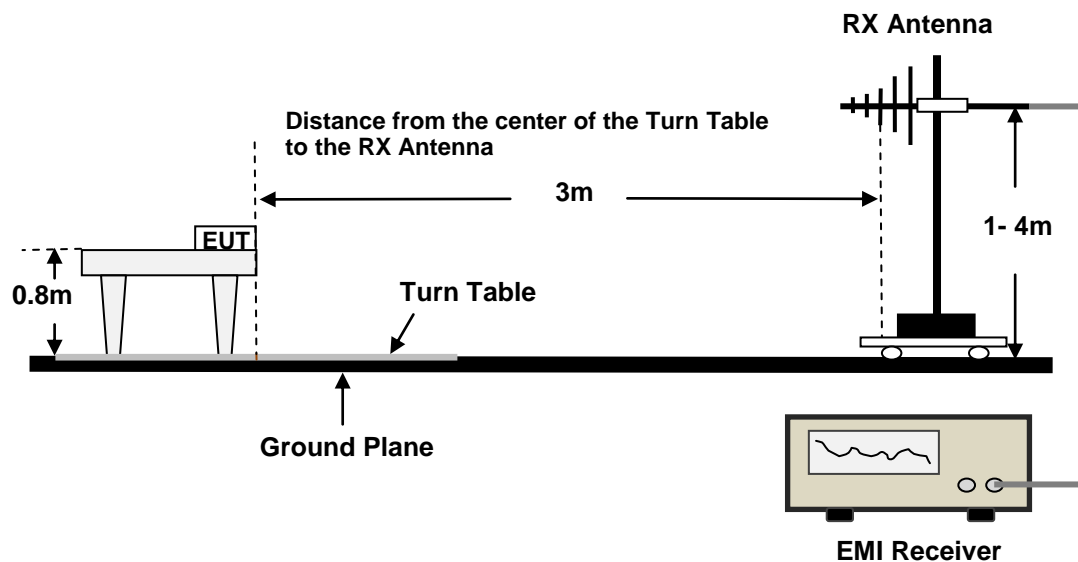
FCC §15.205; §15.209; §15.247(d)

EUT Setup

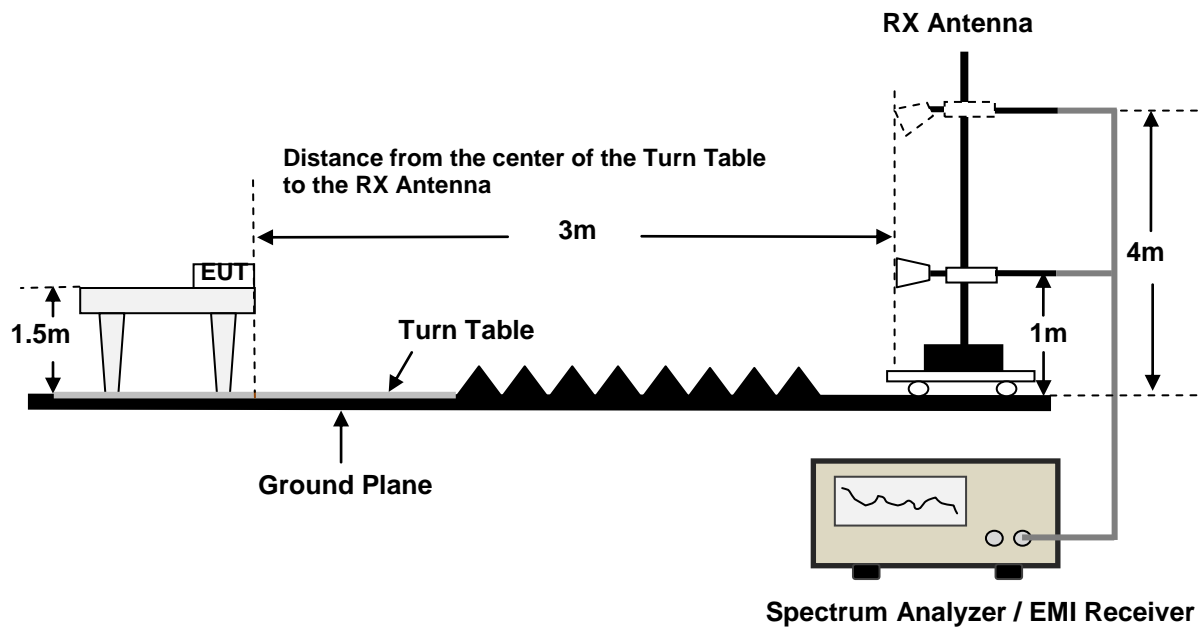
9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:



The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.247 limits.

EMI Test Receiver& Spectrum Analyzer Setup

The system was investigated from 9kHz to 25GHz.

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

9kHz -1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9kHz - 150kHz	PK	0.3kHz	1kHz	/	PK
	QP/AV	/	/	200Hz	QP/AV
150kHz - 30MHz	PK	10kHz	30kHz	/	PK
	QP/AV	/	/	9kHz	QP/AV
30MHz - 1000MHz	PK	100kHz	300kHz	/	PK
	QP	/	/	120kHz	QP

1GHz-25GHz:

Pre-scan:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	Peak	Any	1MHz	3MHz
Ave.	Peak	>98%	1MHz	3kHz
		<98%	1MHz	≥1/T, no less than 3 kHz

Final measurement for emission identified during the pre-scan:

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

Note 1: T is minimum transmission duration

Note 2: The 1GHz-4GHz testing use the notch filter and the 4GHz-18GHz testing use high-pass filter.

Note 3: The band edge testing use 10dB attenuator.

Note 4: The filters and attenuators are all integrated within the filter switch unit.

Test Procedure

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

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to ANSI C63.10-2020,9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

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

where

$E_{SpecLimit}$	is the field strength of the emission at the distance specified by the limit, in dBuV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBuV/m
D_{Meas}	is the measurement distance, in m
$D_{SpecLimit}$	is the distance specified by the limit, in m

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

Calculation

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

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

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

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

Test Data

9kHz-1GHz

Environmental Conditions

Temperature:	24.2 °C
Relative Humidity:	55 %
ATM Pressure:	100.1 kPa
Test Engineer:	Colin Lin
Test Date:	2025-07-14
EUT Operation Mode:	2.4G WIFI Transmitting

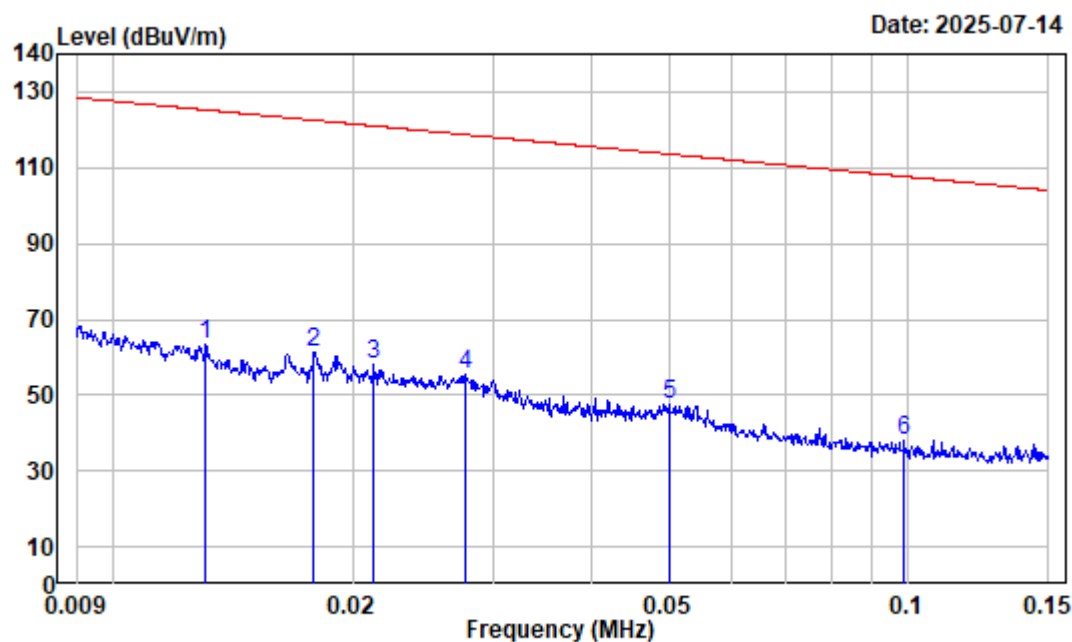
Test Result: Compliance, please refer to the below data.

Note 1: The Loop Antenna were tested in parallel, perpendicular, and ground-parallel. The worst orientation was parallel and the data was recorded in report.

Note 2: The maximum output power mode and channel: 802.11g Low Channel was tested.

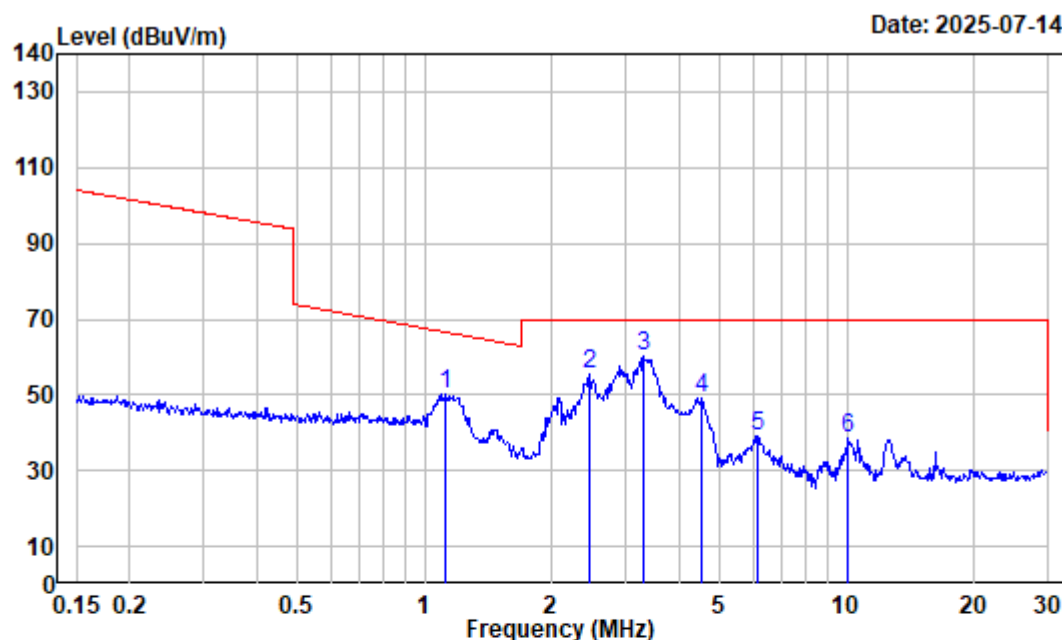
For Battery:

9kHz~30MHz:



Site : Chamber
Condition : 3m
Job No. : 2504V05608E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Note : Battery powered
Receiver Setting: RBW:300Hz VBW:1kHz

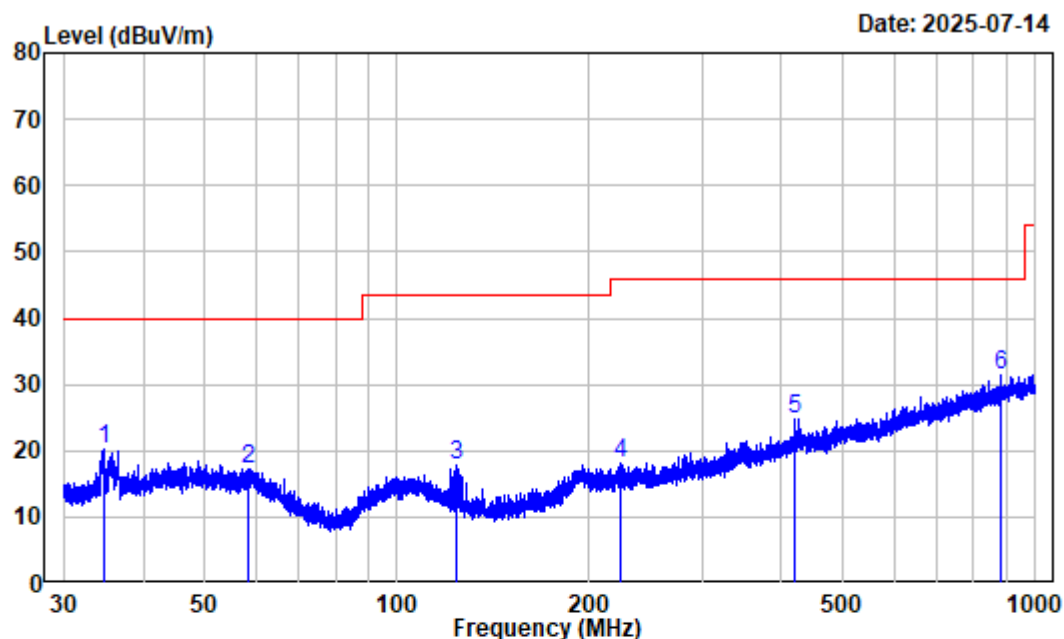
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.013	34.46	28.70	63.16	125.27	-62.11	Peak
2	0.018	32.33	28.95	61.28	122.56	-61.28	Peak
3	0.021	30.82	27.05	57.87	121.04	-63.17	Peak
4	0.028	27.96	27.29	55.25	118.74	-63.49	Peak
5	0.050	22.80	24.52	47.32	113.61	-66.29	Peak
6	0.099	16.55	21.55	38.10	107.70	-69.60	Peak



Site : Chamber
 Condition : 3m
 Job No. : 2504V05608E-RF
 Polarization : Parallel Tester: Colin Lin
 Test Mode : 2.4G WIFI Transmitting
 Note : Battery powered
 Receiver Setting: RBW:10kHz VBW:30kHz

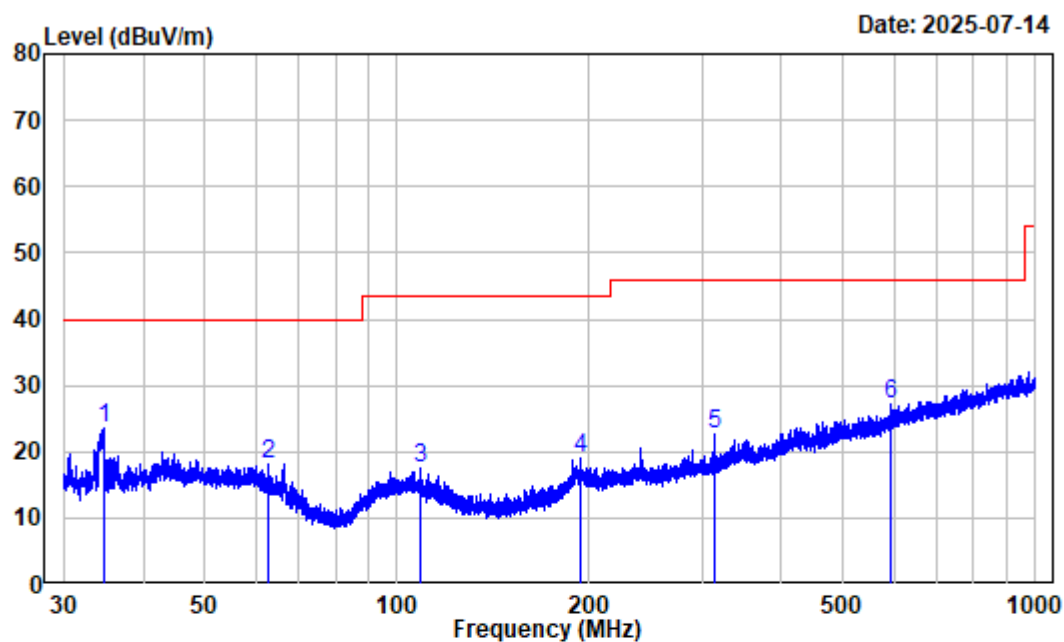
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.117	-2.24	52.44	50.20	66.49	-16.29	Peak
2	2.448	-5.58	60.80	55.22	69.54	-14.32	Peak
3	3.293	-5.97	66.07	60.10	69.54	-9.44	Peak
4	4.525	-6.30	55.66	49.36	69.54	-20.18	Peak
5	6.121	-6.20	45.24	39.04	69.54	-30.50	Peak
6	10.072	-5.33	43.88	38.55	69.54	-30.99	Peak

30MHz~1GHz:



Site : Chamber
 Condition : 3m HORIZONTAL
 Job No. : 2504V05608E-RF Tester: Colin Lin
 Test Mode : 2.4G WIFI Transmitting
 Note : Battery powered
 Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.623	-11.65	31.75	20.10	40.00	-19.90	Peak
2	58.510	-10.21	27.46	17.25	40.00	-22.75	Peak
3	123.482	-13.99	31.68	17.69	43.50	-25.81	Peak
4	224.618	-10.53	28.62	18.09	46.00	-27.91	Peak
5	420.396	-5.10	29.87	24.77	46.00	-21.23	Peak
6	884.891	1.58	29.71	31.29	46.00	-14.71	Peak

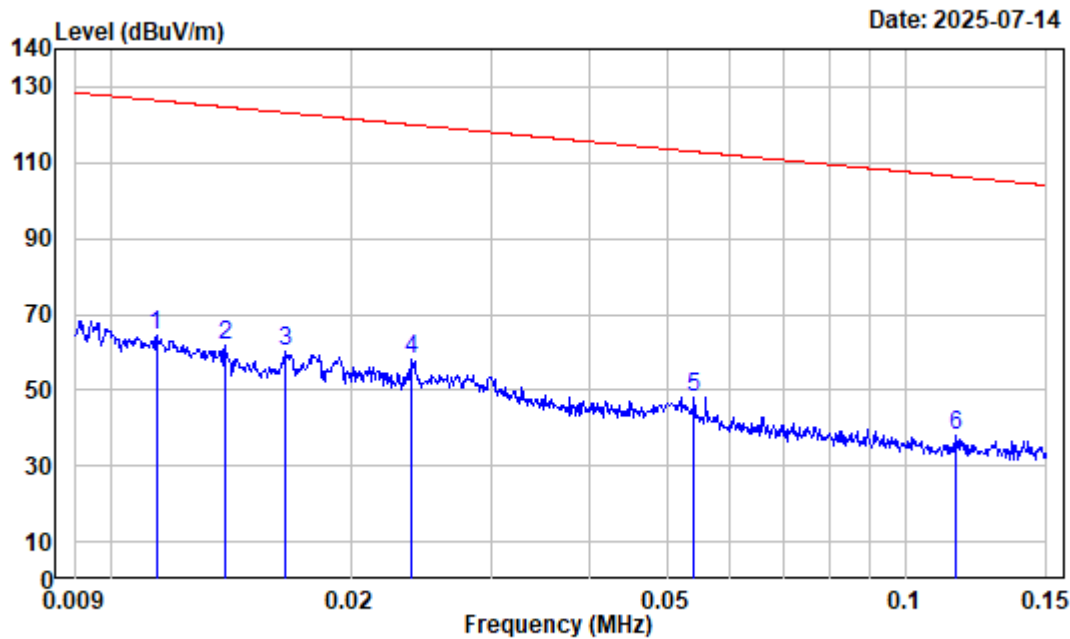


Site : Chamber
 Condition : 3m VERTICAL
 Job No. : 2504V05608E-RF Tester: Colin Lin
 Test Mode : 2.4G WIFI Transmitting
 Note : Battery powered
 Receiver Setting: RBW:100kHz VBW:300kHz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.623	-11.65	35.13	23.48	40.00	-16.52	Peak
2	63.009	-11.62	29.74	18.12	40.00	-21.88	Peak
3	108.647	-11.38	28.93	17.55	43.50	-25.95	Peak
4	193.518	-9.92	28.82	18.90	43.50	-24.60	Peak
5	314.928	-8.62	31.23	22.61	46.00	-23.39	Peak
6	592.270	-2.29	29.39	27.10	46.00	-18.90	Peak

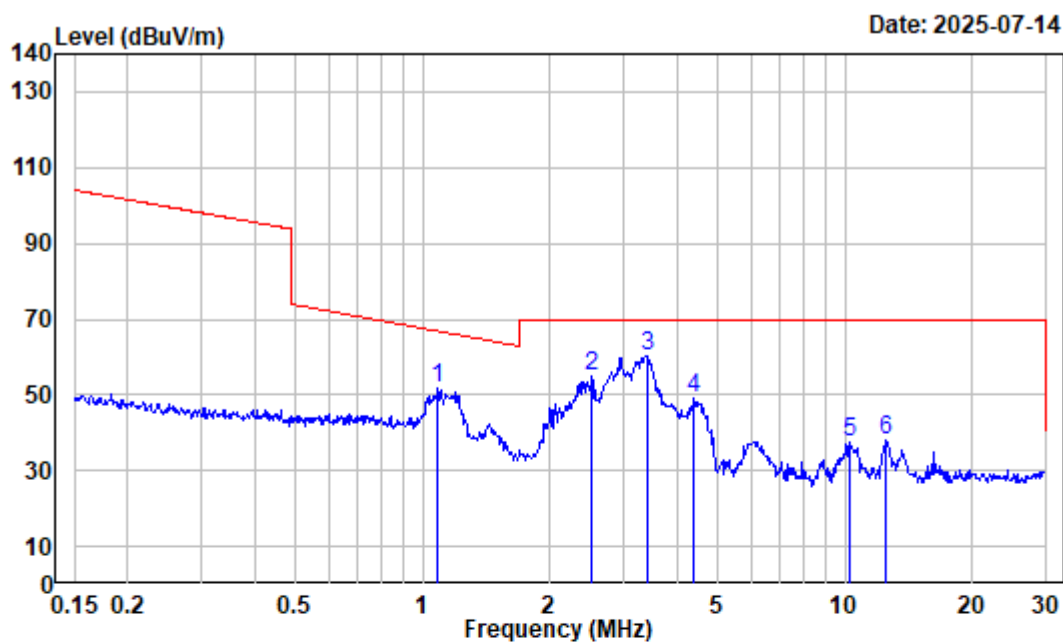
For Adapter:

9kHz~30MHz:



Site : Chamber
Condition : 3m
Job No. : 2504V05608E-RF
Polarization : Parallel Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Note : Adapter
Receiver Setting: RBW:300Hz VBW:1kHz

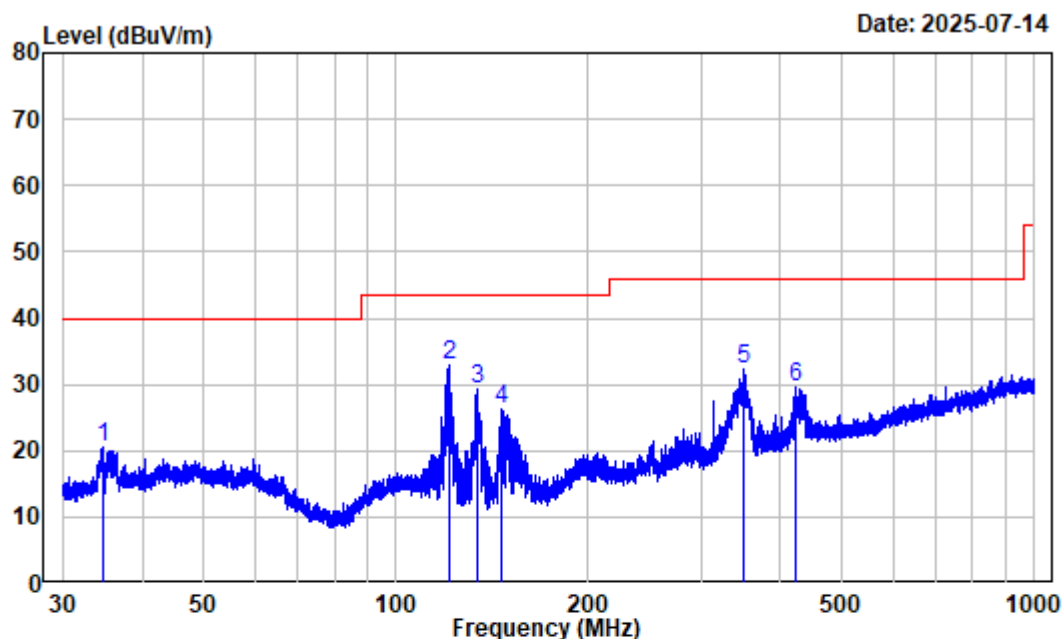
	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.011	35.21	29.03	64.24	126.47	-62.23	Peak
2	0.014	34.09	27.68	61.77	124.73	-62.96	Peak
3	0.017	32.94	27.45	60.39	123.24	-62.85	Peak
4	0.024	29.66	28.31	57.97	120.04	-62.07	Peak
5	0.054	22.23	26.01	48.24	112.95	-64.71	Peak
6	0.115	15.74	22.39	38.13	106.36	-68.23	Peak



Site : Chamber
 Condition : 3m
 Job No. : 2504V05608E-RF
 Polarization : Parallel Tester: Colin Lin
 Test Mode : 2.4G WIFI Transmitting
 Note : Adapter
 Receiver Setting: RBW:10kHz VBW:30kHz

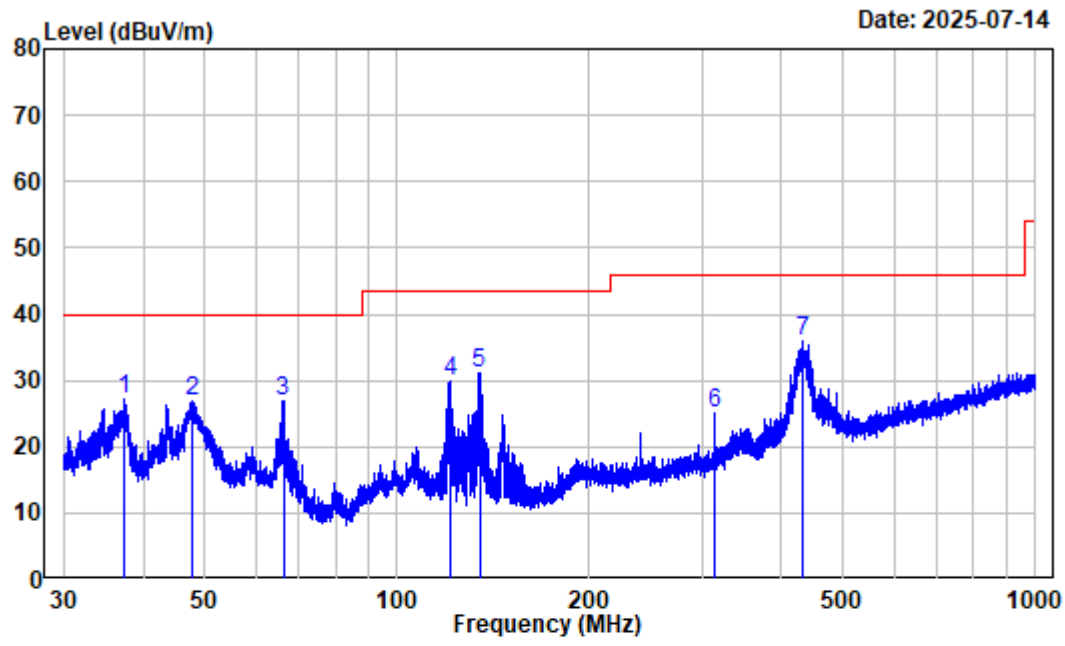
	Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.088	-2.15	53.72	51.57	66.72	-15.15	Peak
2	2.513	-5.61	60.52	54.91	69.54	-14.63	Peak
3	3.399	-6.02	66.25	60.23	69.54	-9.31	Peak
4	4.384	-6.30	55.33	49.03	69.54	-20.51	Peak
5	10.288	-5.27	43.04	37.77	69.54	-31.77	Peak
6	12.516	-4.73	42.85	38.12	69.54	-31.42	Peak

30MHz~1GHz:



Site : Chamber
Condition : 3m HORIZONTAL
Job No. : 2504V05608E-RF Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Note : Adapter
Receiver Setting: RBW:100kHz VBW:300kHz

	Freq		Read		Limit	Over	Remark
	Factor		Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.639	-11.64	32.03	20.39	40.00	-19.61	Peak
2	120.752	-13.51	46.42	32.91	43.50	-10.59	Peak
3	134.324	-14.51	43.76	29.25	43.50	-14.25	Peak
4	146.630	-14.87	41.20	26.33	43.50	-17.17	Peak
5	349.710	-6.78	38.95	32.17	46.00	-13.83	Peak
6	422.798	-5.04	34.75	29.71	46.00	-16.29	Peak



Site : Chamber
Condition : 3m VERTICAL
Job No. : 2504V05608E-RF Tester: Colin Lin
Test Mode : 2.4G WIFI Transmitting
Note : Adapter
Receiver Setting: RBW:100kHz VBW:300kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37.433	-11.12	38.36	27.24	40.00	-12.76 Peak
2	47.847	-9.83	36.60	26.77	40.00	-13.23 Peak
3	66.295	-12.96	39.92	26.96	40.00	-13.04 Peak
4	120.858	-13.53	43.32	29.79	43.50	-13.71 Peak
5	134.559	-14.48	45.60	31.12	43.50	-12.38 Peak
6	314.928	-8.62	33.78	25.16	46.00	-20.84 Peak
7	432.925	-4.88	40.79	35.91	46.00	-10.09 Peak

1GHz-25GHz

Environmental Conditions

Temperature:	24.3 to 24.6 °C
Relative Humidity:	52 to 53 %
ATM Pressure:	99.3 to 100.1 kPa
Test Engineer:	Kevin Lv
Test Date:	2025-07-21 to 2025-08-03
EUT Operation Mode:	Transmitting

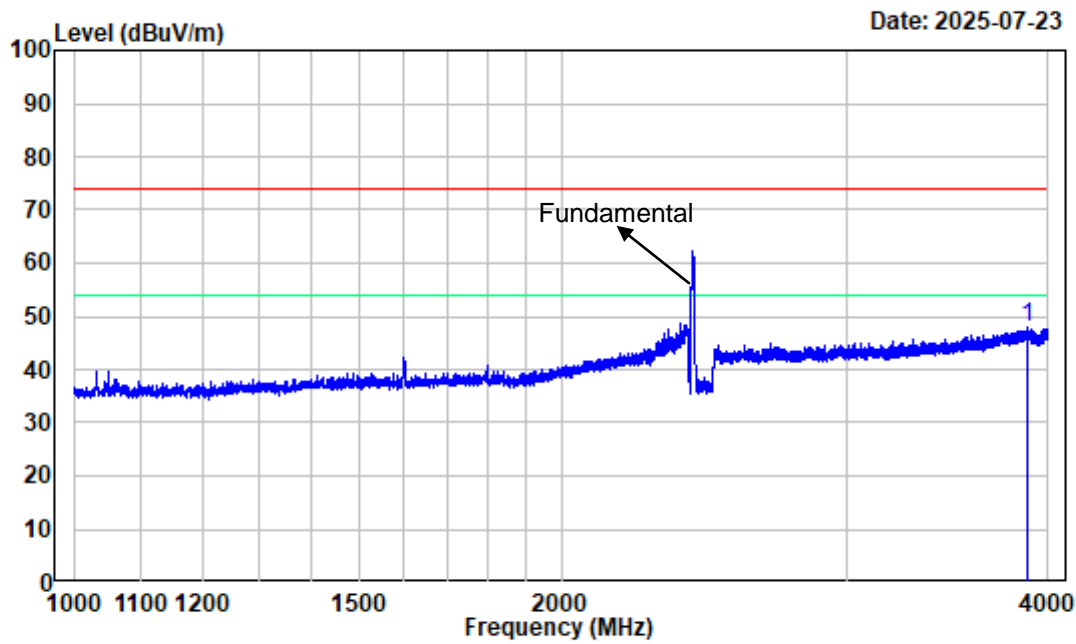
Test Result: Compliance, please refer to the below data.

Note 1: For 1GHz-4GHz, the fundamental with band reject filter.

Note 2: For 18GHz-25GHz, the maximum output power mode and channel: 802.11g Low Channel was tested.

Note 3: Choose the adapter for testing.

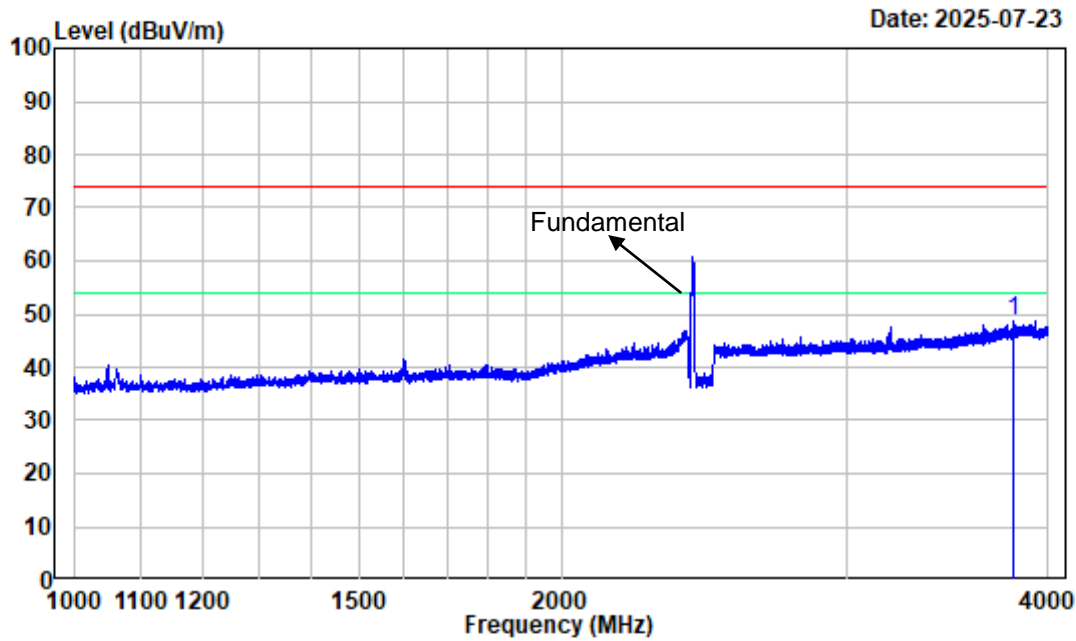
802.11b Low Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Low Channel 2412MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	Line	Limit	
1	3888.250	-7.97	55.74	47.77	74.00	-26.23 Peak

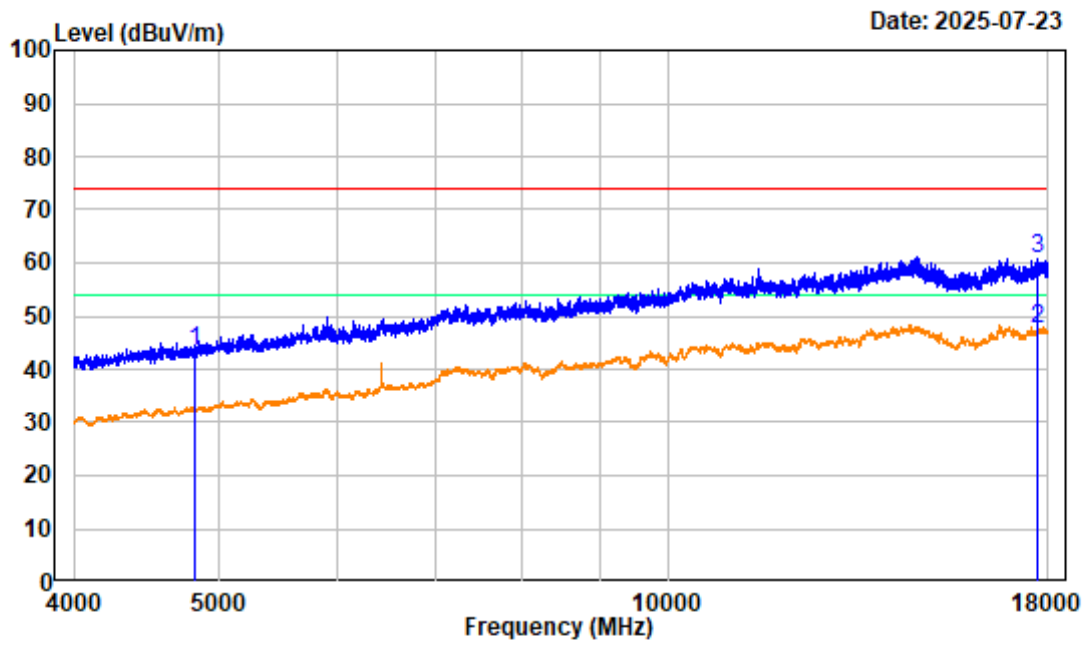
802.11b Low Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Low Channel 2412MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 3810.625	-8.44	57.21	48.77	74.00	-25.23 Peak

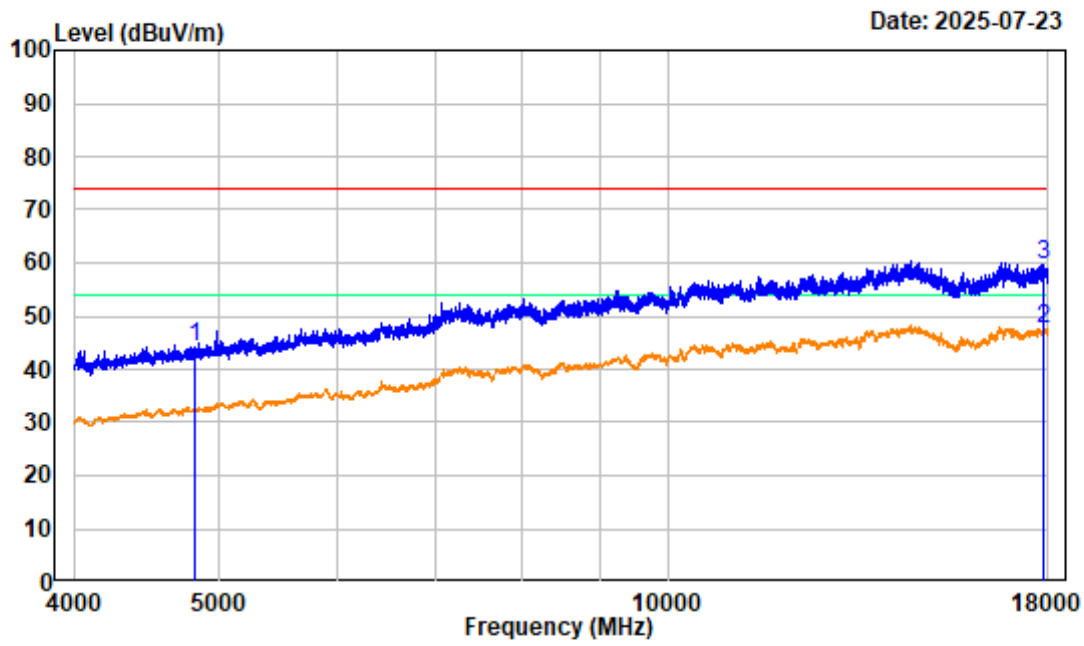
802.11b Low Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Low Channel 2412MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4824.250	-6.64	50.20	43.56	74.00	-30.44	Peak
2 17725.250	7.70	39.83	47.53	54.00	-6.47	Average
3 17725.250	7.70	53.04	60.74	74.00	-13.26	Peak

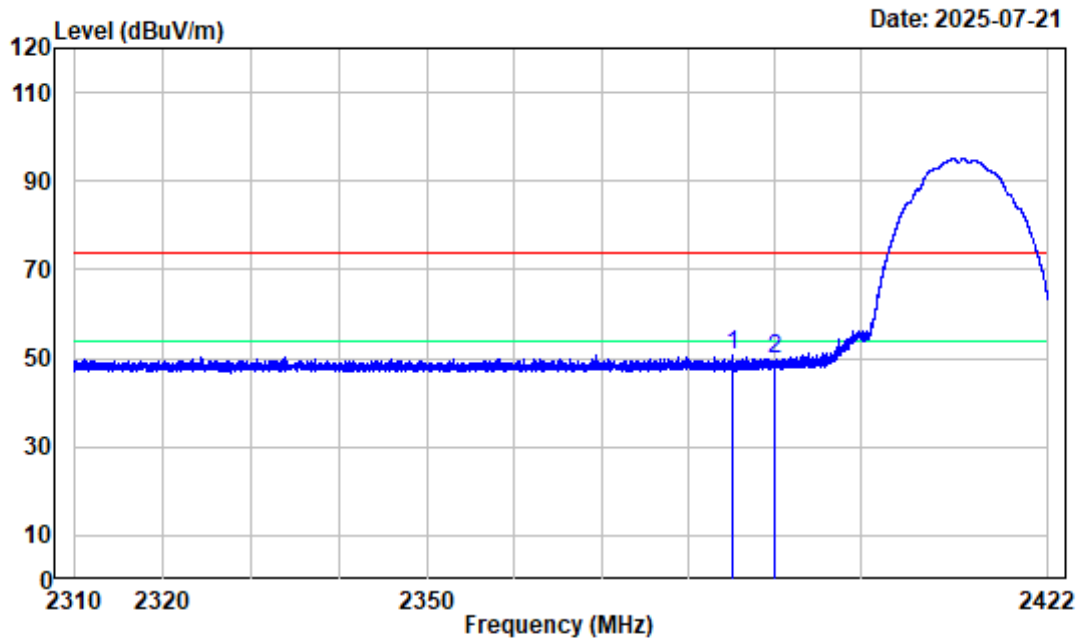
802.11b Low Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Low Channel 2412MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.000	-6.64	50.90	44.26	74.00	-29.74	peak
2	17858.250	8.30	39.22	47.52	54.00	-6.48	Average
3	17858.250	8.30	51.27	59.57	74.00	-14.43	Peak

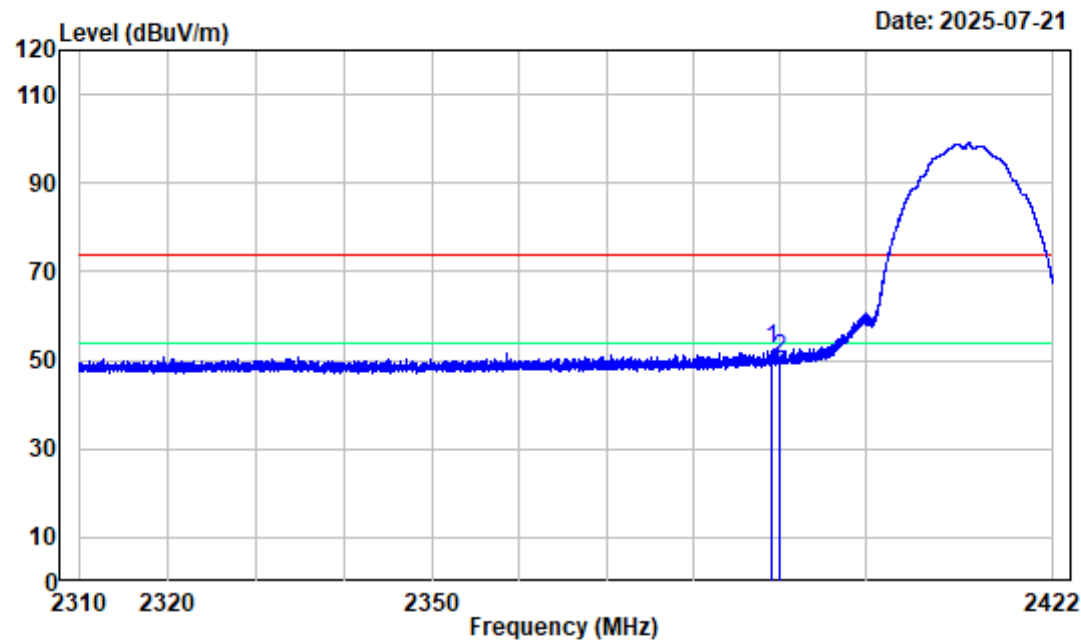
802.11b Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2385.236	-10.23	61.06	50.83	74.00	-23.17 Peak
2	2390.000	-10.25	60.19	49.94	74.00	-24.06 peak

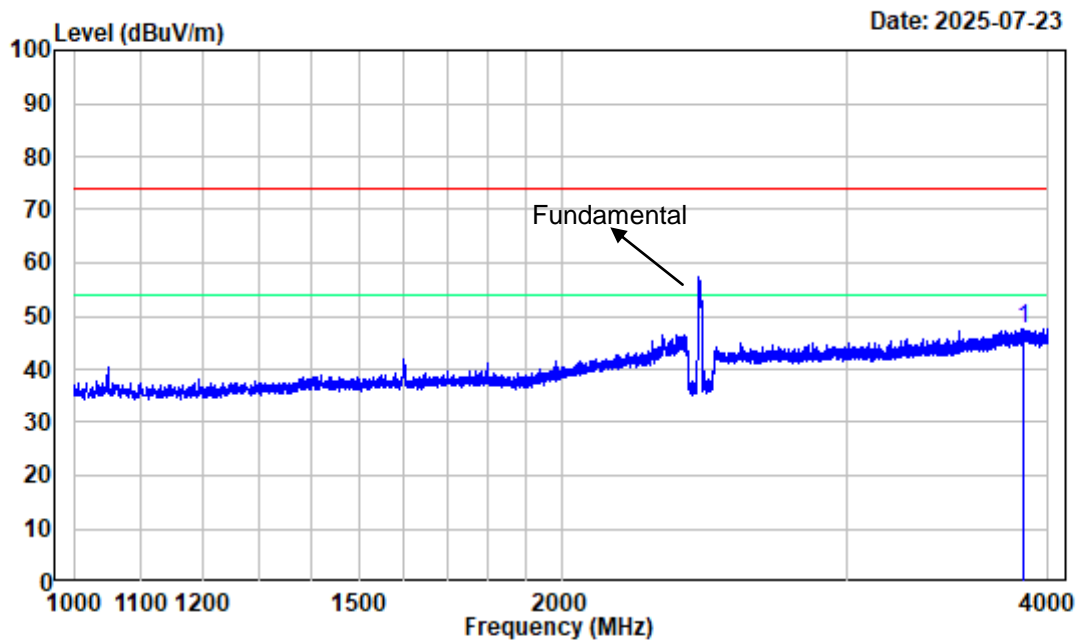
802.11b Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.212	-10.25	62.62	52.37	74.00	-21.63 Peak
2	2390.000	-10.25	60.43	50.18	74.00	-23.82 peak

802.11b Middle Channel 1GHz-4GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

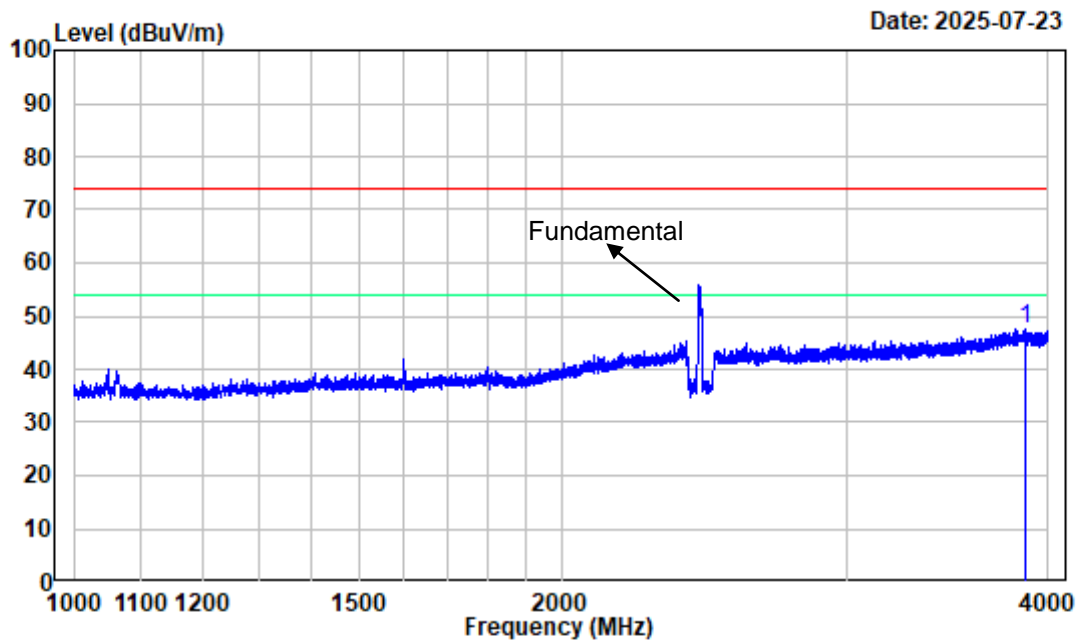
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11B Middle Channel 2437MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level		Limit	Over	Remark
		Level		Line	Limit	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 3865.750	-8.13	55.76	47.63	74.00	-26.37	Peak

802.11b Middle Channel 1GHz-4GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

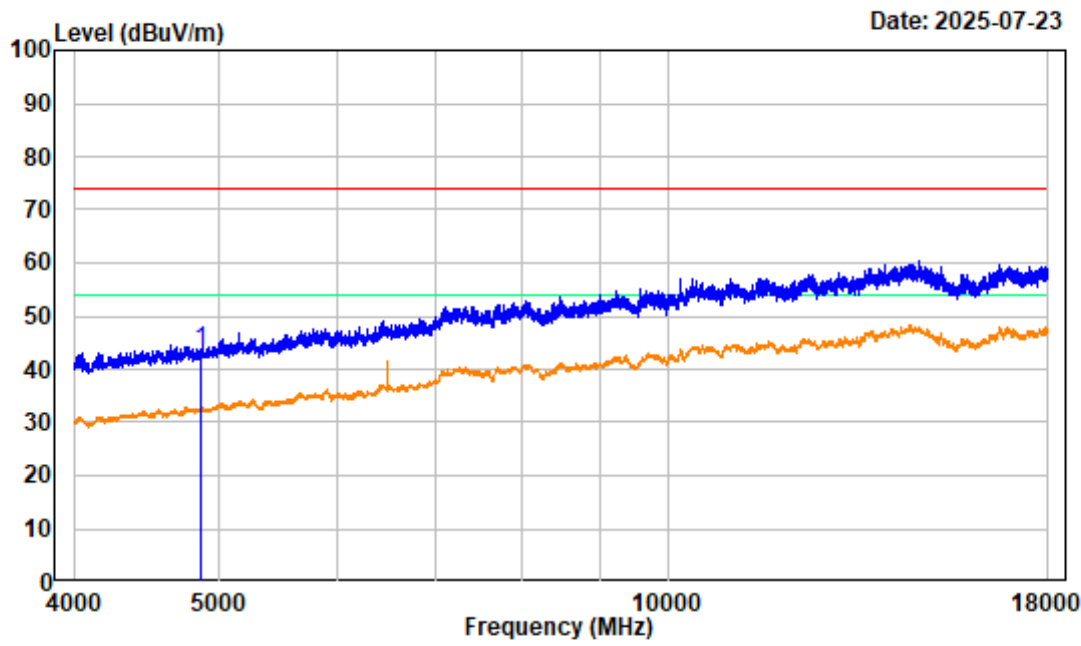
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11B Middle Channel 2437MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3869.500	-8.10	55.71	47.61	74.00	-26.39 Peak

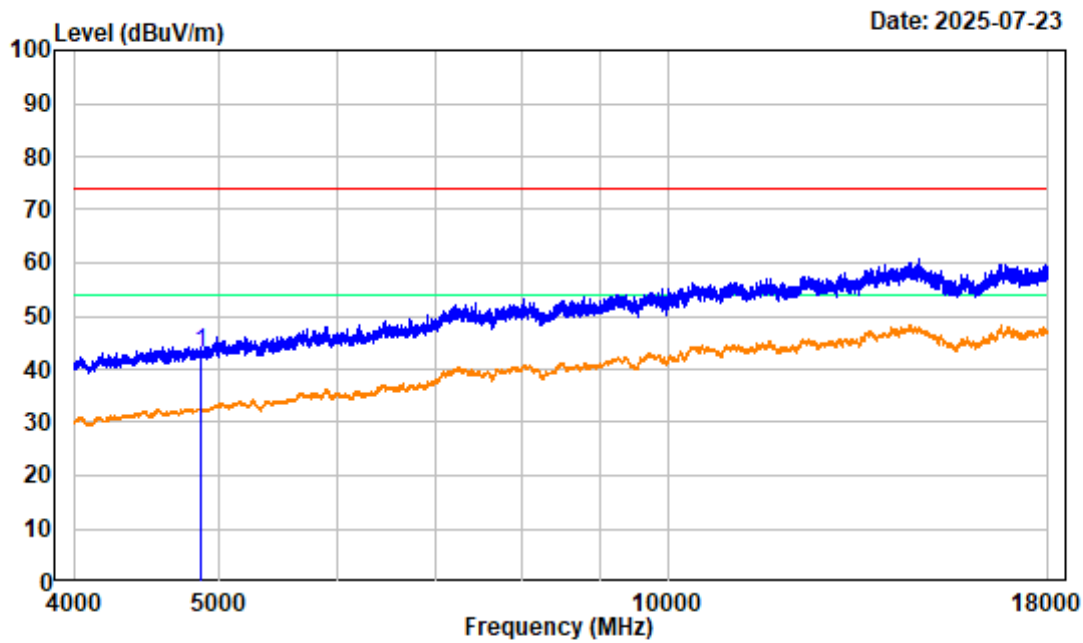
802.11b Middle Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B Middle Channel 2437MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read	Limit	Over	Remark
		Level	Level	Line	
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1 4873.250	-6.59	49.87	43.28	74.00	-30.72 Peak

802.11b Middle Channel 4GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

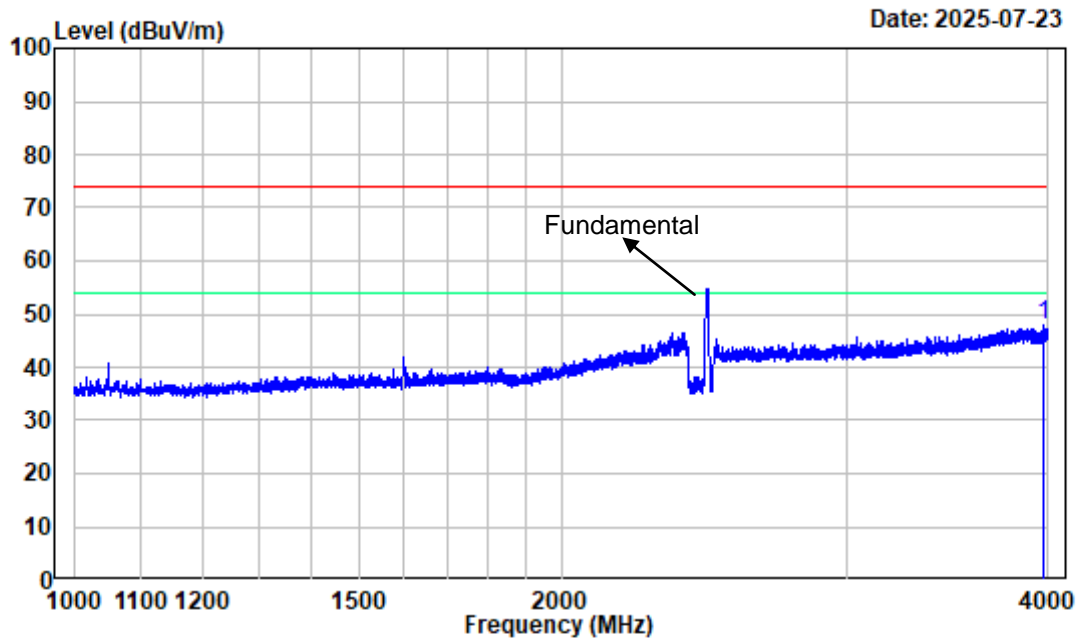
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11B Middle Channel 2437MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4873.250	-6.59	49.75	43.16	74.00	-30.84	Peak

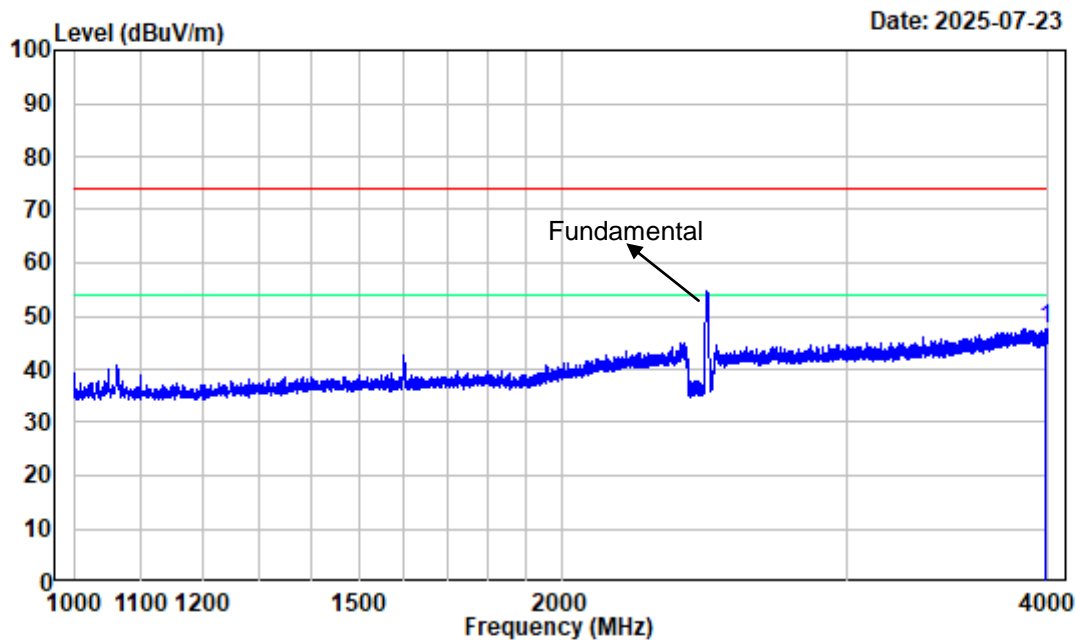
802.11b High Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B High Channel 2462MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3978.250	-8.25	56.02	47.77	74.00	-26.23 Peak

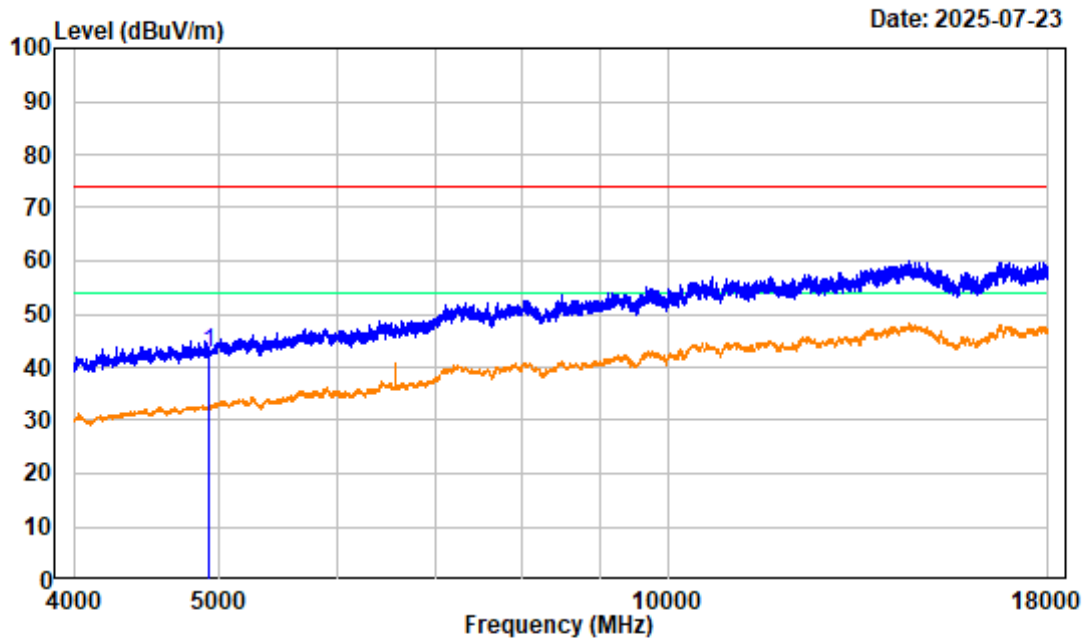
802.11b High Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B High Channel 2462MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3990.250	-8.16	55.89	47.73	74.00	-26.27 Peak

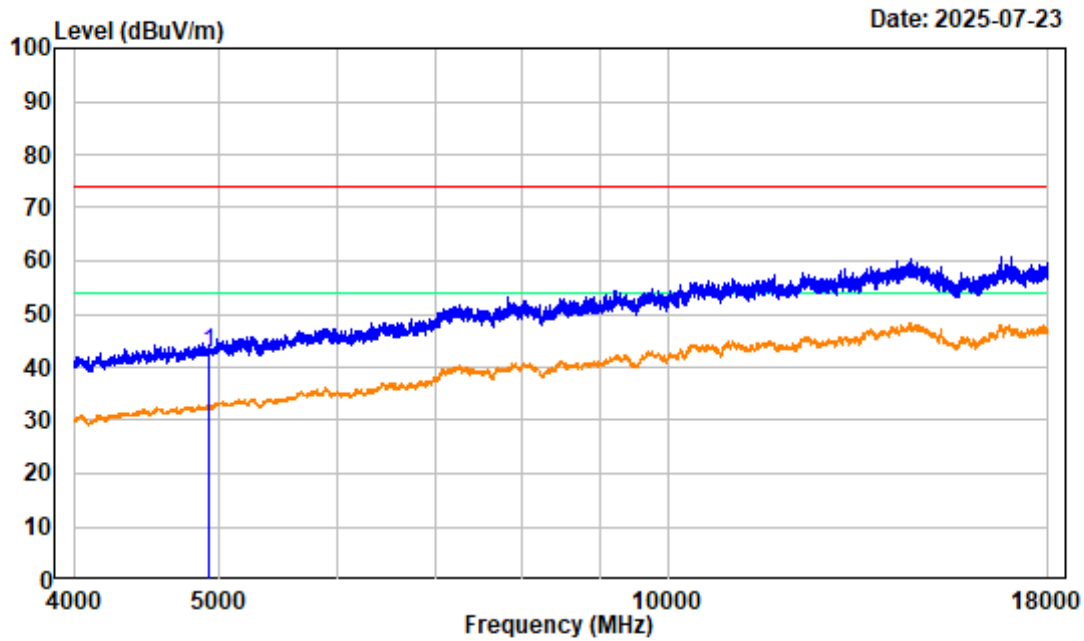
802.11b High Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B High Channel 2462MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-6.48	48.96	42.48	74.00	-31.52 Peak

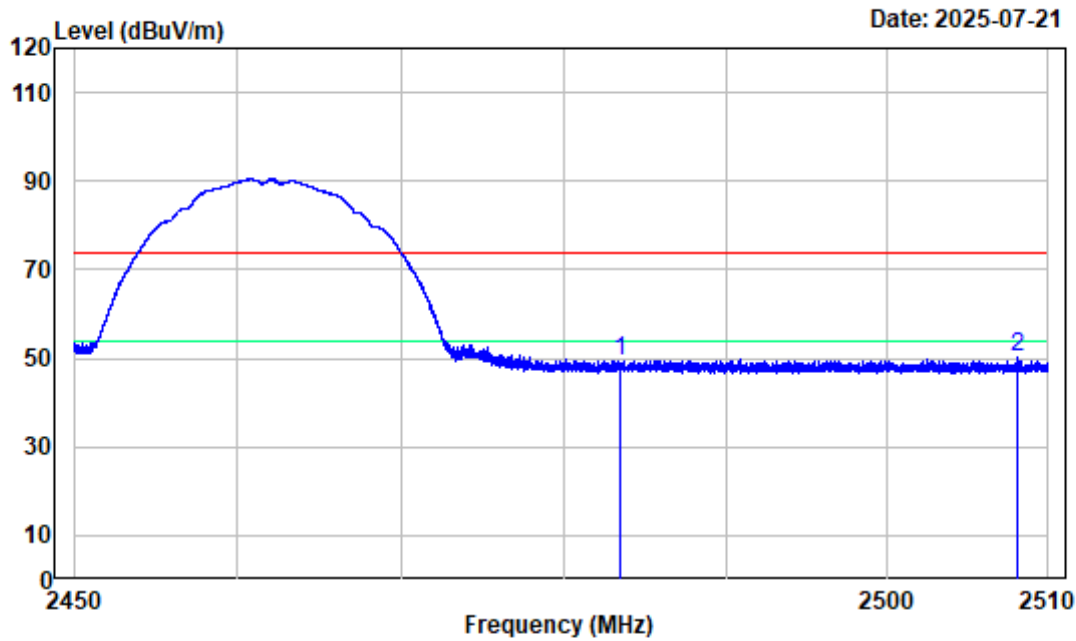
802.11b High Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B High Channel 2462MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-6.48	49.16	42.68	74.00	-31.32 Peak

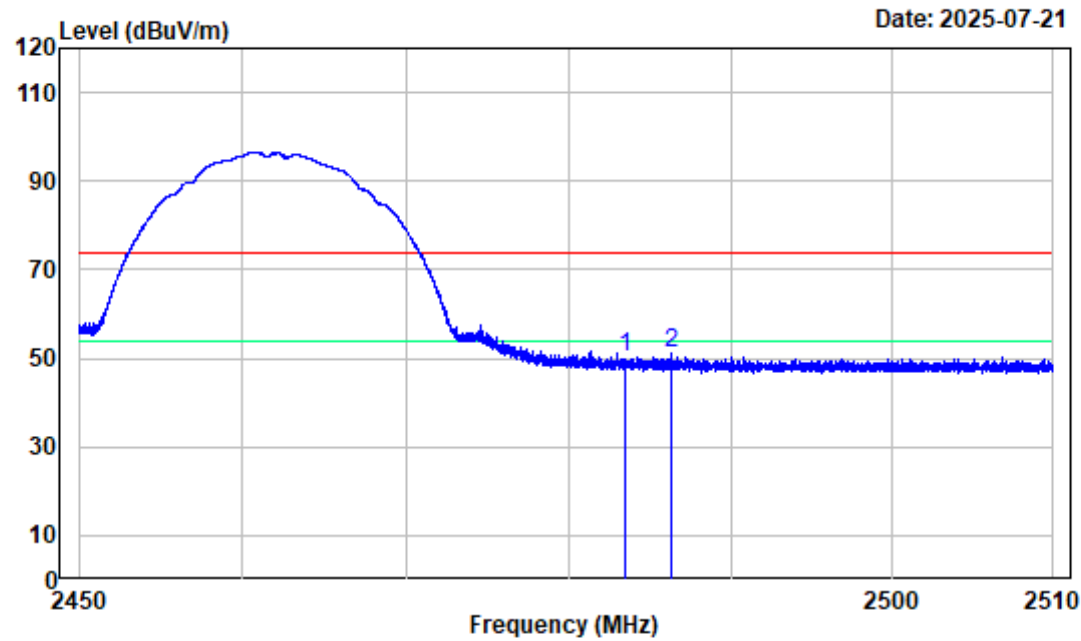
802.11b High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11B High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	59.74	49.51	74.00	-24.49 peak
2	2508.133	-10.24	60.69	50.45	74.00	-23.55 Peak

802.11b High Channel Bandedge_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

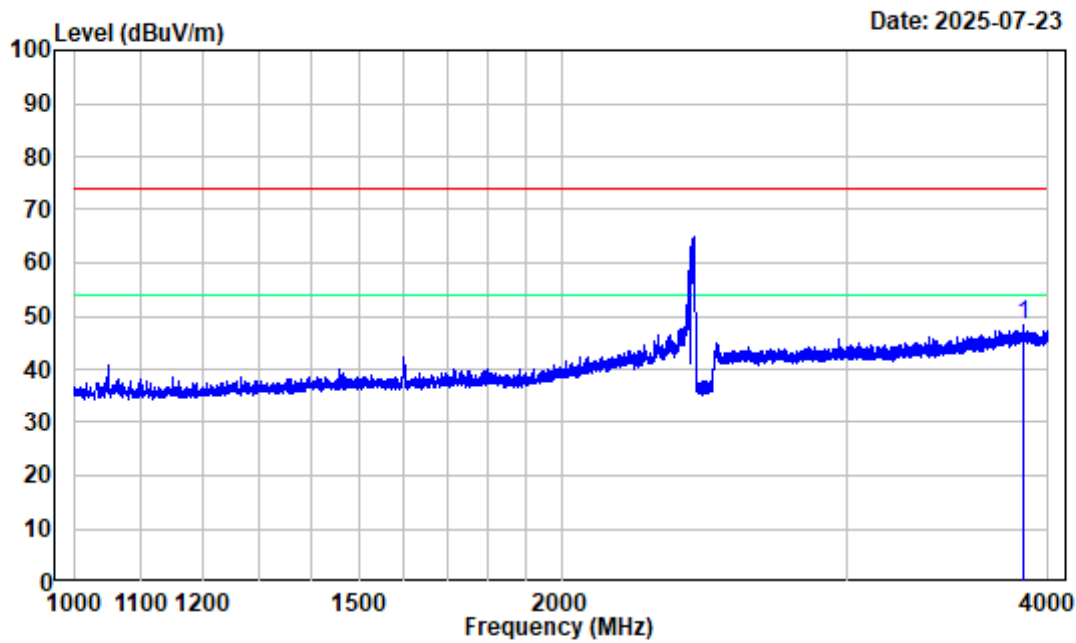
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11B High Channel 2462MHz Bandedge

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	60.65	50.42	74.00	-23.58 peak
2	2486.345	-10.25	61.29	51.04	74.00	-22.96 Peak

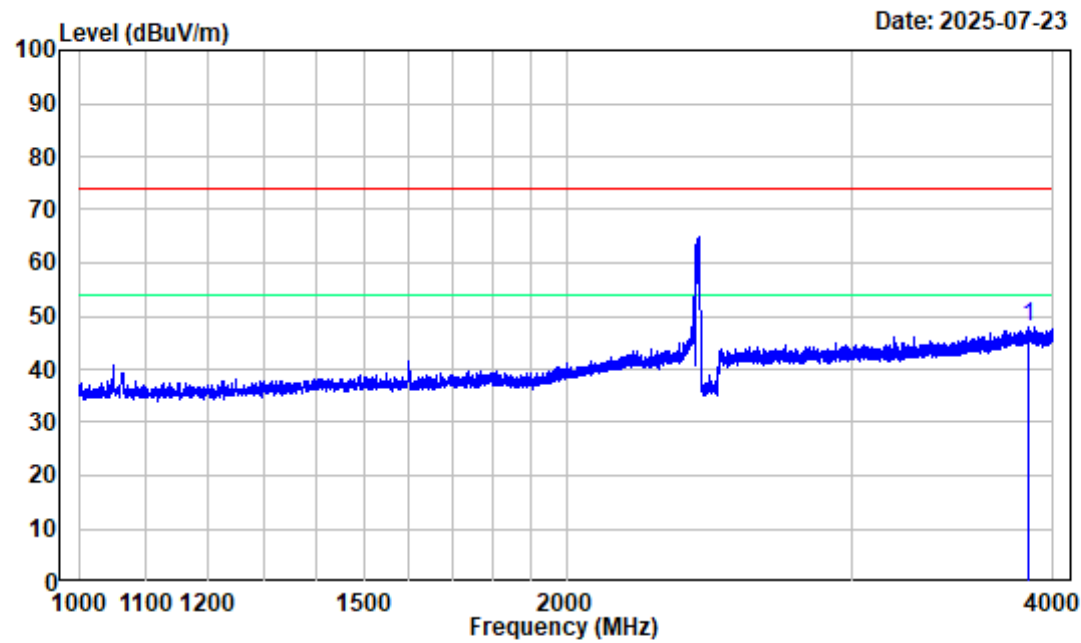
802.11G Low Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G Low Channel 2412MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3863.125	-8.14	56.47	48.33	74.00	-25.67 Peak

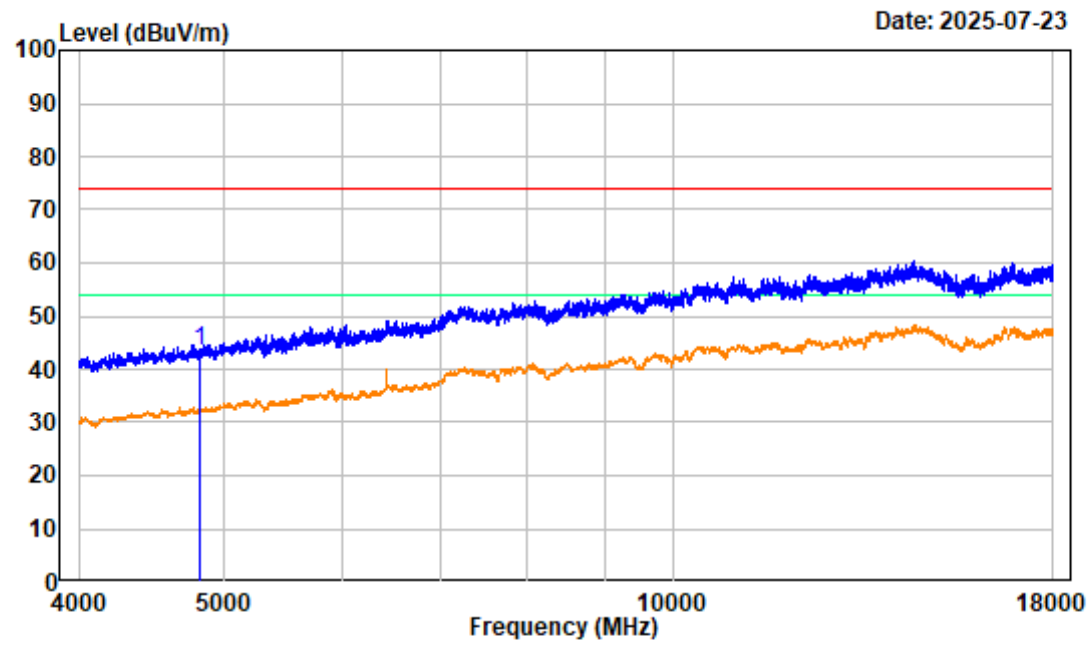
802.11G Low Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G Low Channel 2412MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3860.875	-8.15	55.99	47.84	74.00	-26.16 Peak

802.11G Low Channel 4GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

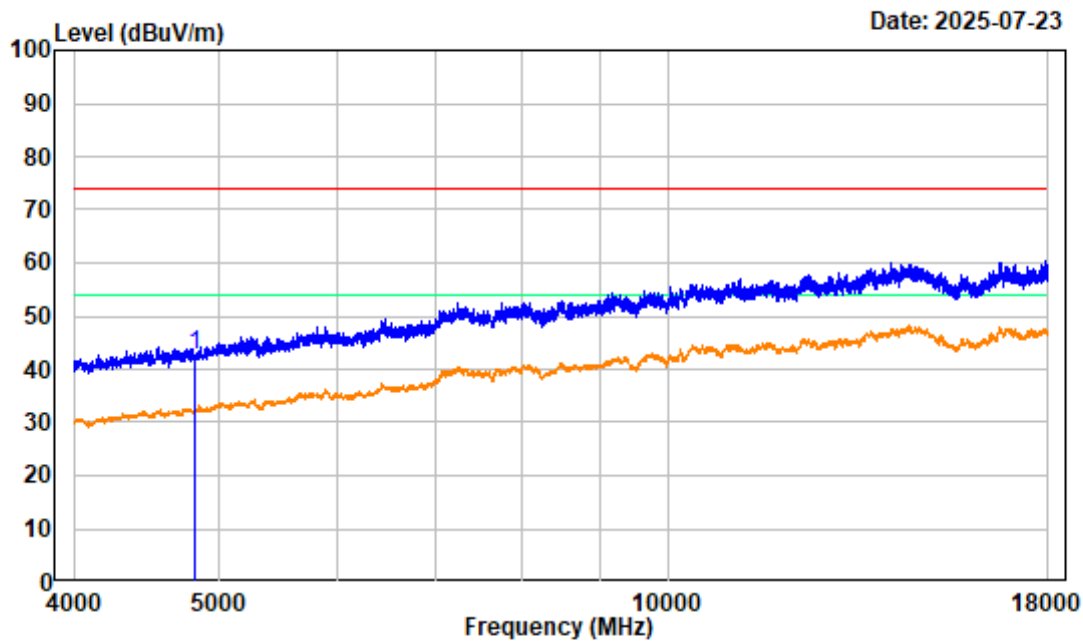
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G Low Channel 2412MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4824.250	-6.64	49.99	43.35	74.00	-30.65	Peak

802.11G Low Channel 4GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

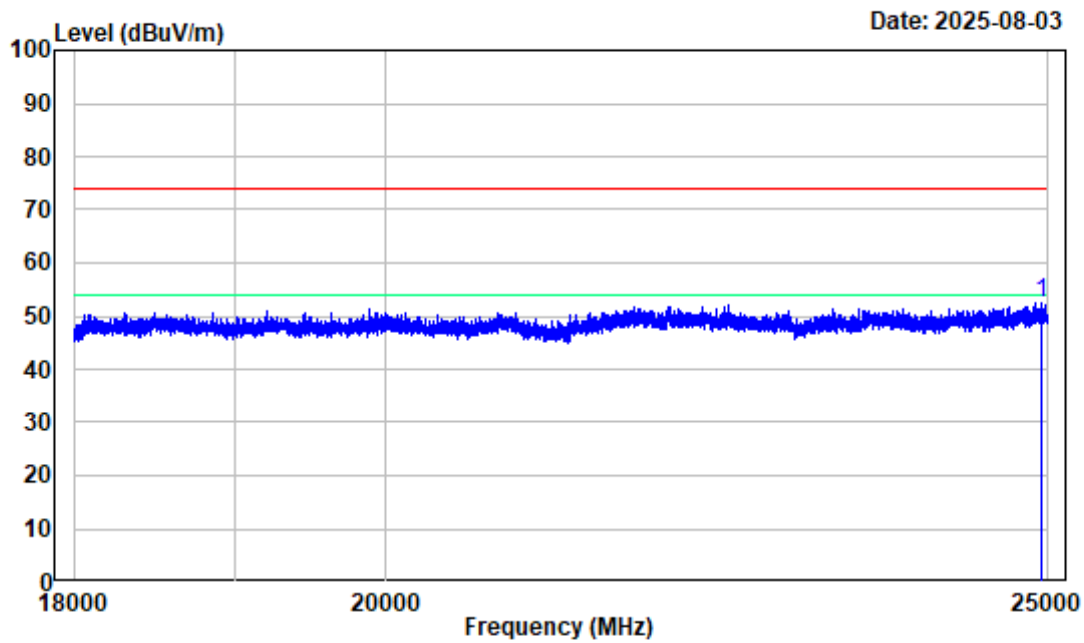
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G Low Channel 2412MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4824.250	-6.64	49.31	42.67	74.00	-31.33	Peak

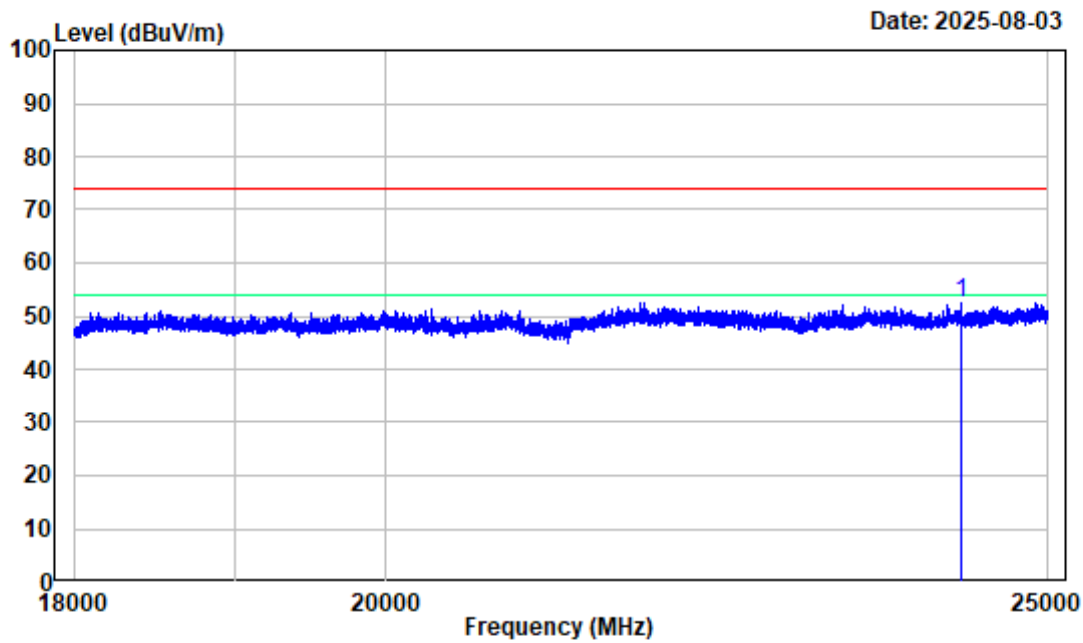
802.11g Low Channel 18GHz-25GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11g Low Channel 2412MHz 18GHz-25GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 24945.750	4.20	48.38	52.58	74.00	-21.42	Peak

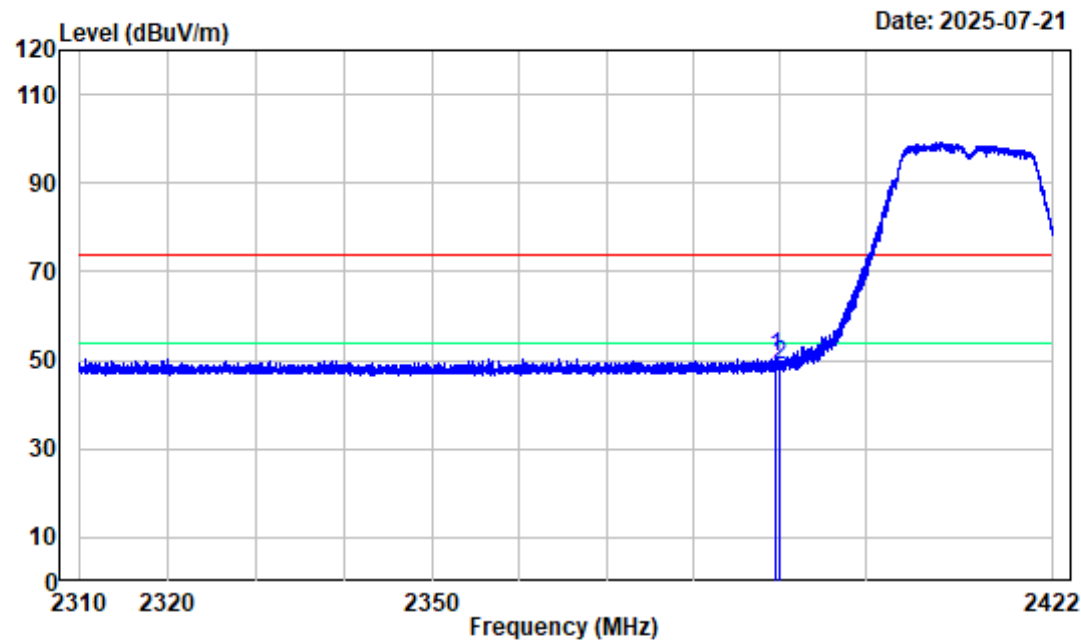
802.11g Low Channel 18GHz-25GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11g Low Channel 2412MHz 18GHz-25GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 24277.250	2.90	49.62	52.52	74.00	-21.48	Peak

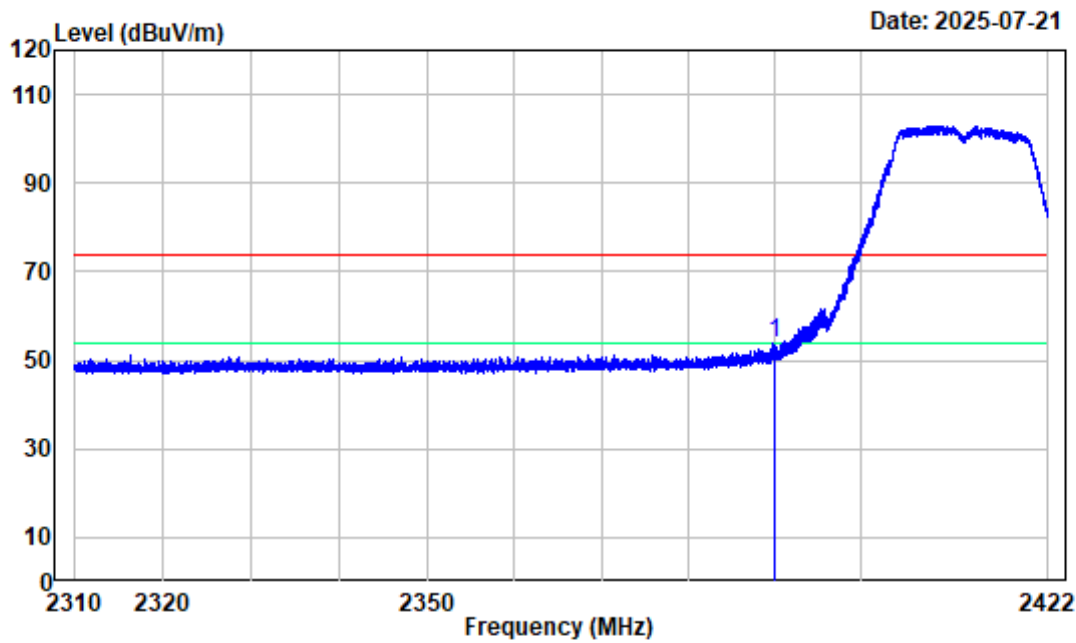
802.11G Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2389.492	-10.25	61.06	50.81	74.00	-23.19 Peak
2	2390.000	-10.25	58.98	48.73	74.00	-25.27 peak

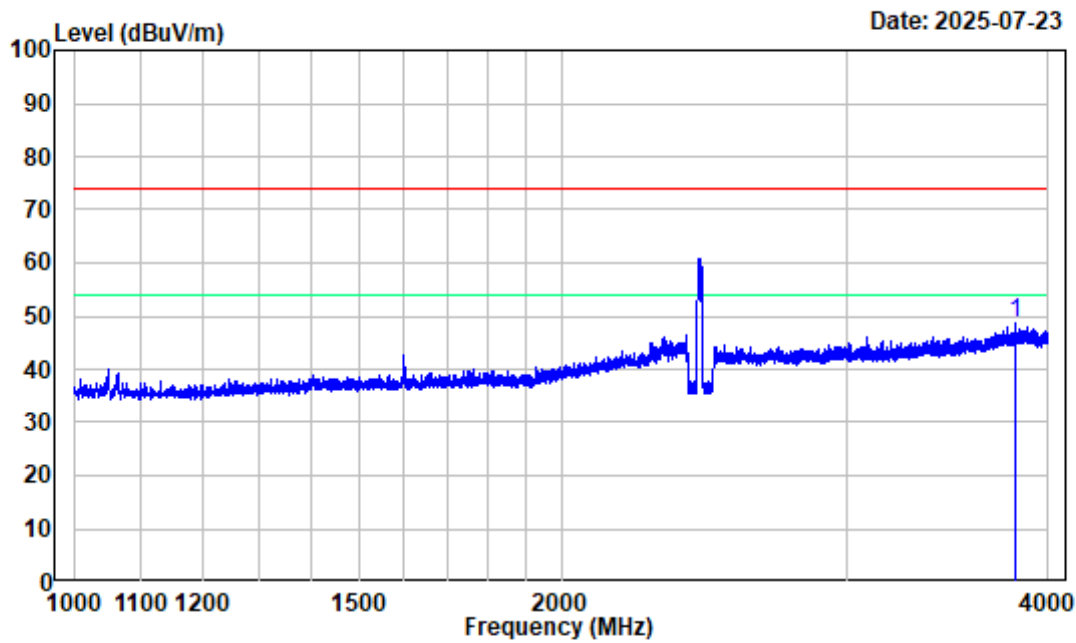
802.11G Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 2390.000	-10.25	64.21	53.96	74.00	-20.04	peak

802.11G Middle Channel 1GHz-4GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

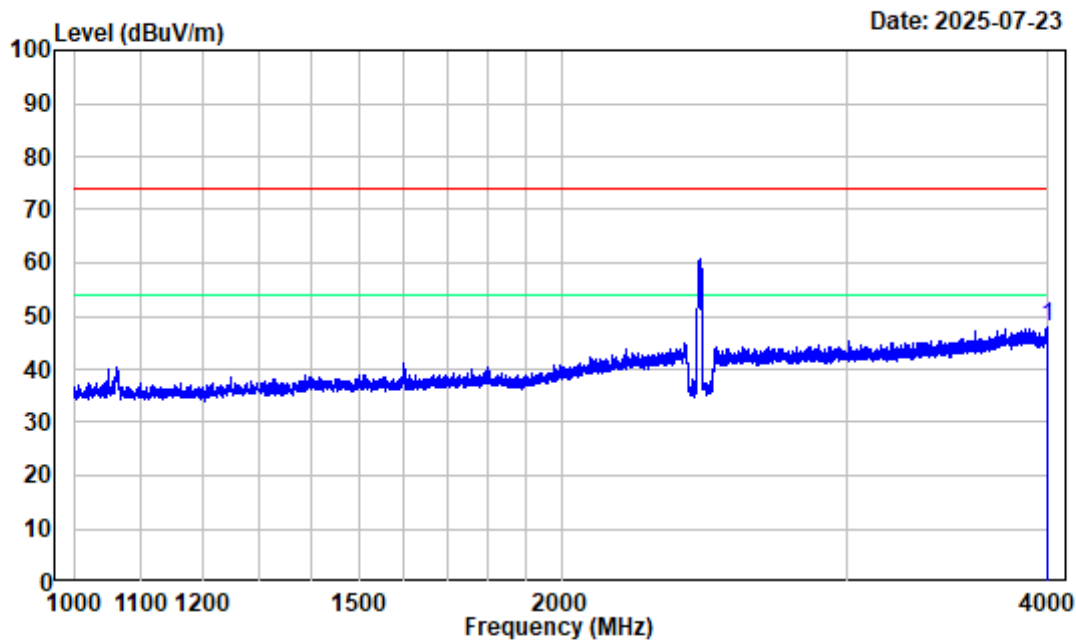
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G Middle Channel 2437MHz 1GHz-4GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3814.750	-8.41	57.21	48.80	74.00	-25.20 Peak

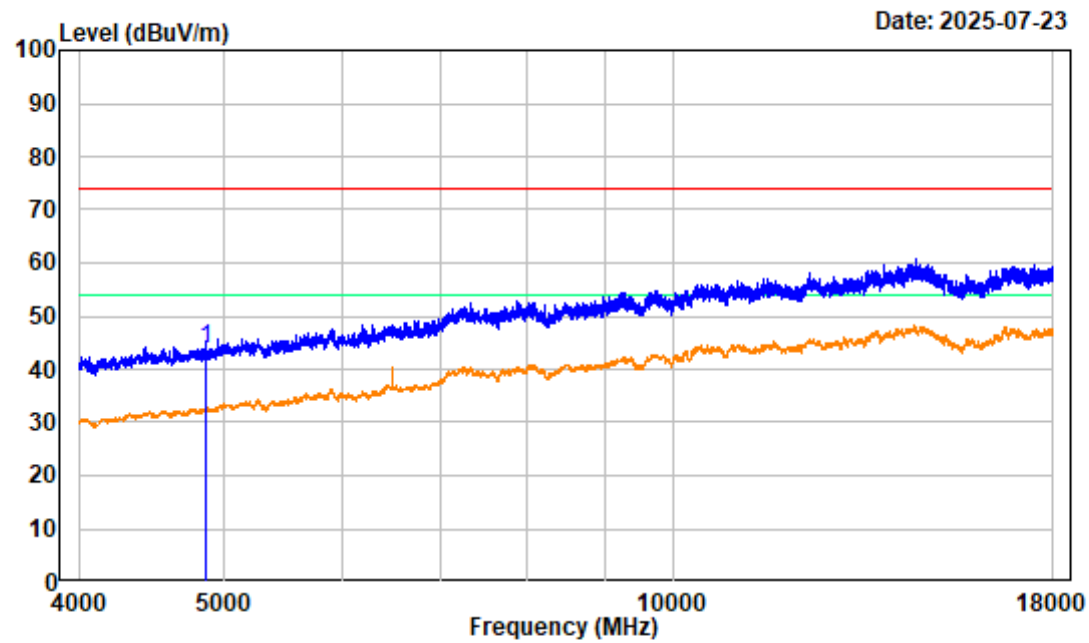
802.11G Middle Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G Middle Channel 2437MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

		Read	Limit	Over	Remark	
Freq	Factor	Level	Level	Line		Limit
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 3997.000	-8.11	56.02	47.91	74.00	-26.09	Peak

802.11G Middle Channel 4GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

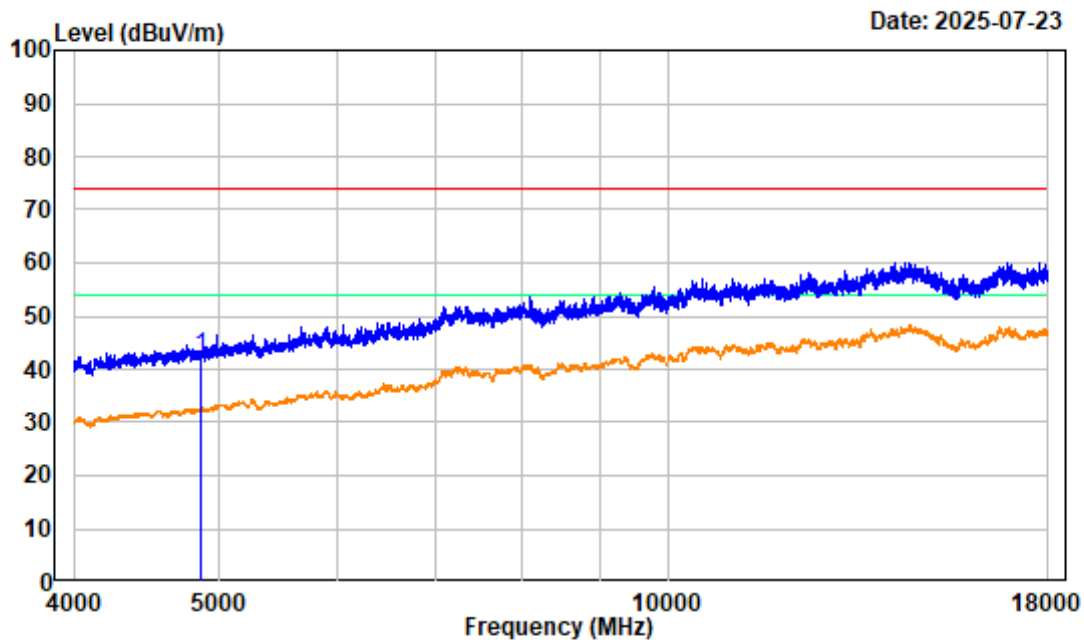
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G Middle Channel 2437MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4873.250	-6.59	50.37	43.78	74.00	-30.22	Peak

802.11G Middle Channel 4GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

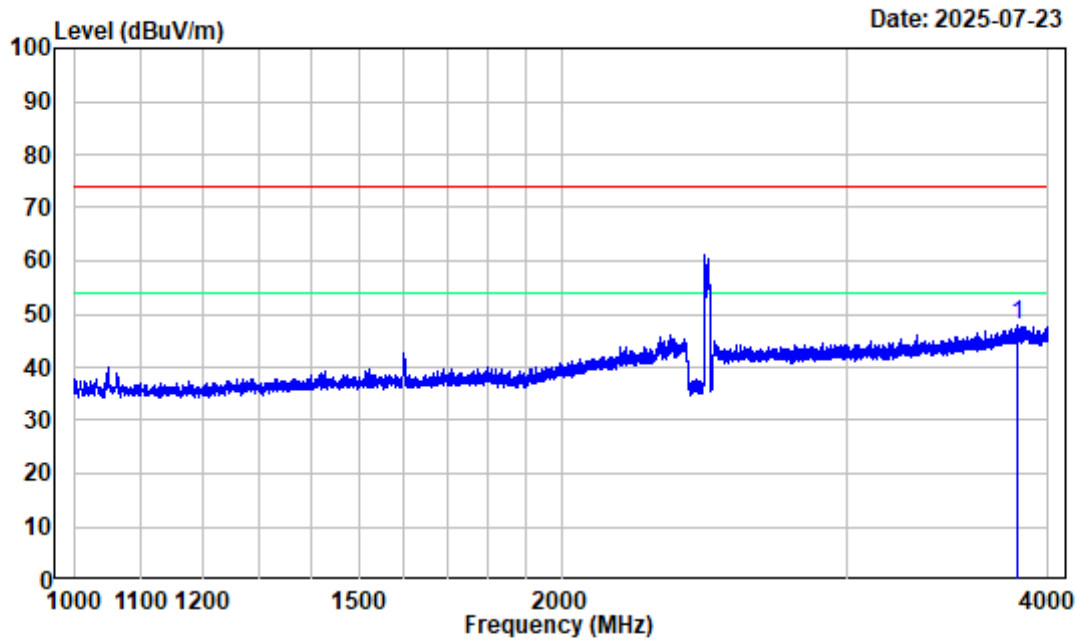
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G Middle Channel 2437MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4873.250	-6.59	48.90	42.31	74.00	-31.69 Peak

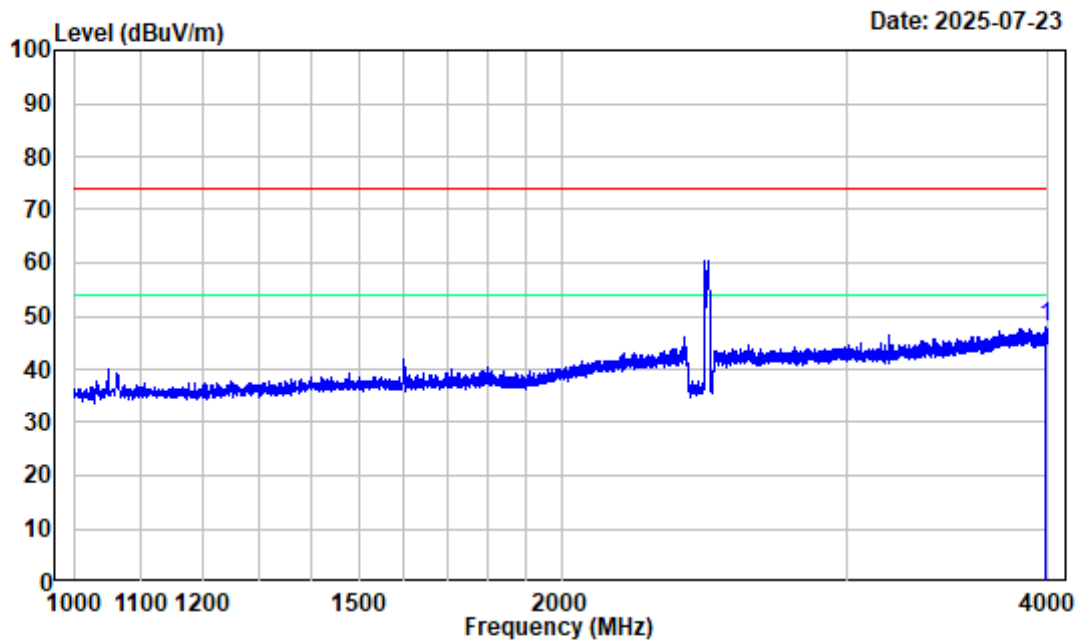
802.11G High Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G High Channel 2462MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read	Limit	Over	Remark	
MHz	dB/m	Level	Level	Line		
		dBuV	dBuV/m	dBuV/m	dB	
1	3832.750	-8.32	56.35	48.03	74.00	-25.97 Peak

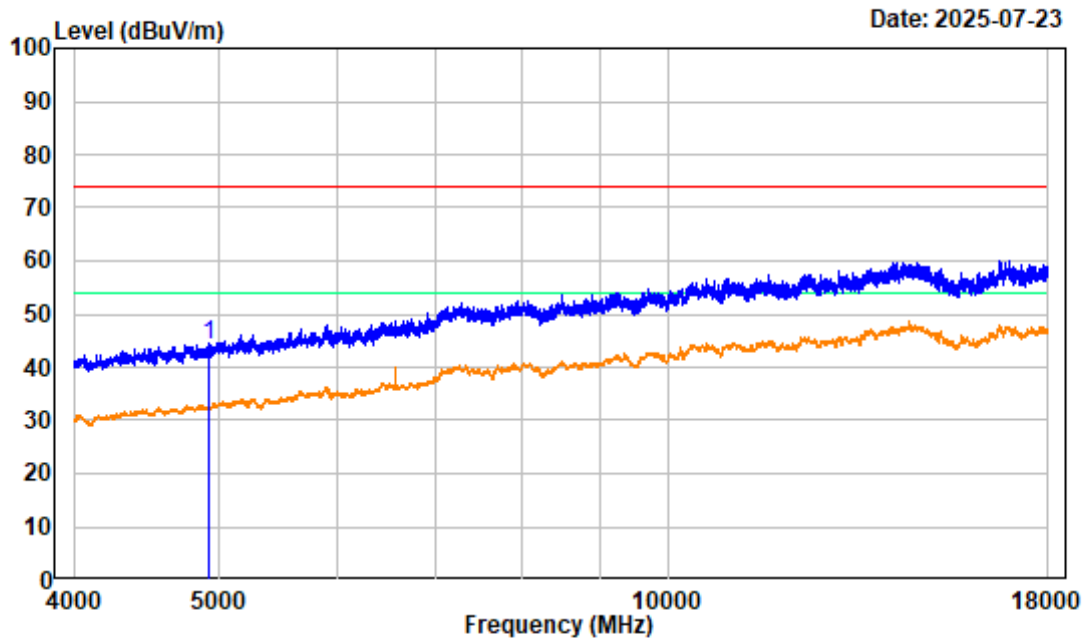
802.11G High Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G High Channel 2462MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3984.625	-8.21	56.23	48.02	74.00	-25.98 Peak

802.11G High Channel 4GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

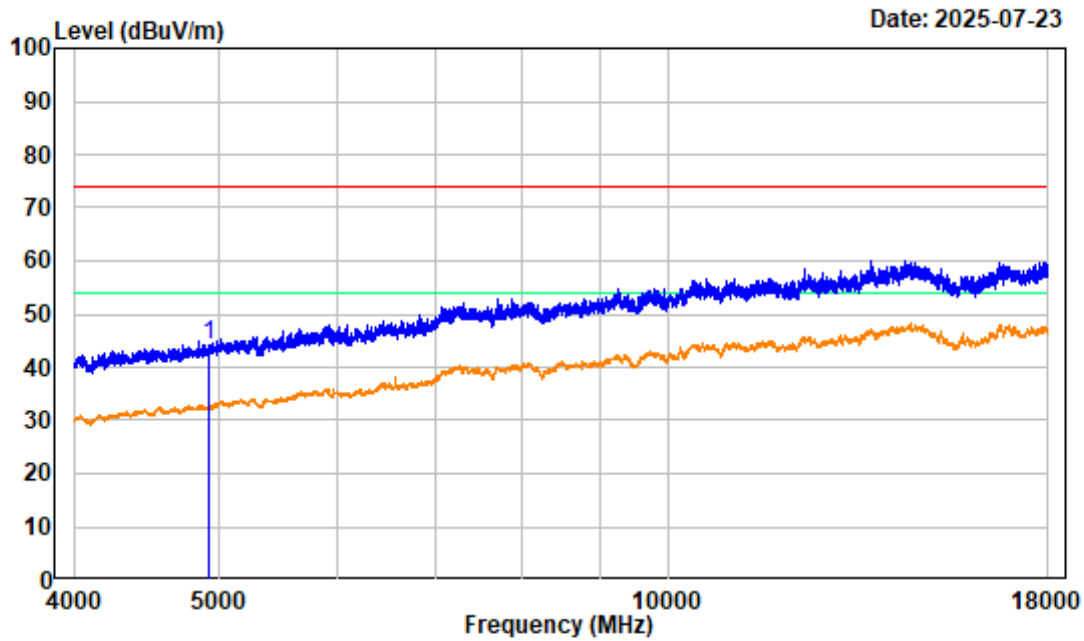
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G High Channel 2462MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-6.48	50.69	44.21	74.00	-29.79 Peak

802.11G High Channel 4GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

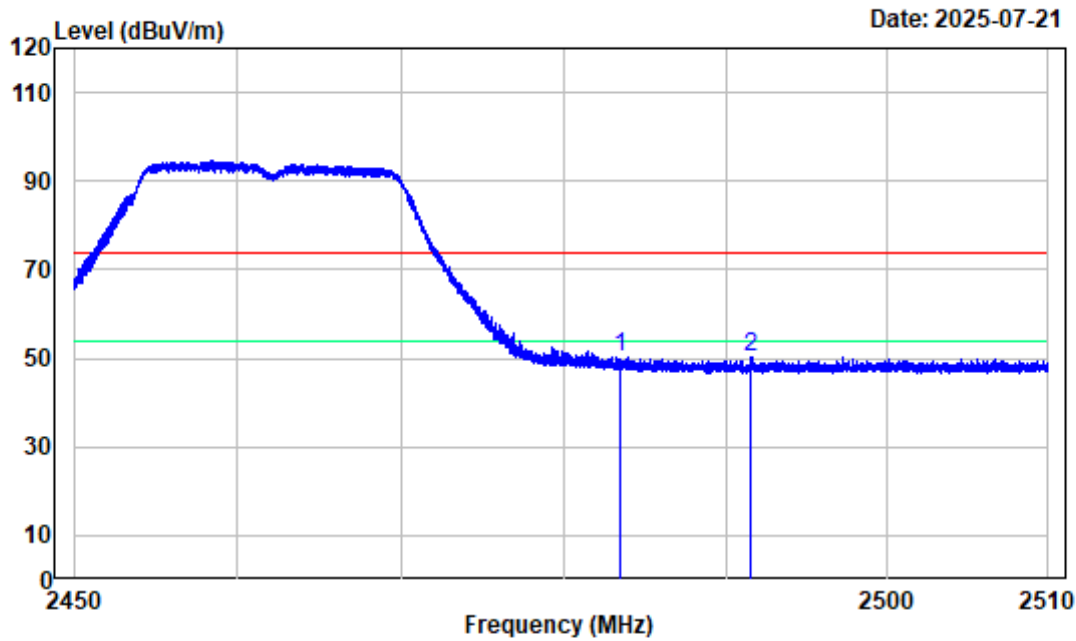
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11G High Channel 2462MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-6.48	50.66	44.18	74.00	-29.82 Peak

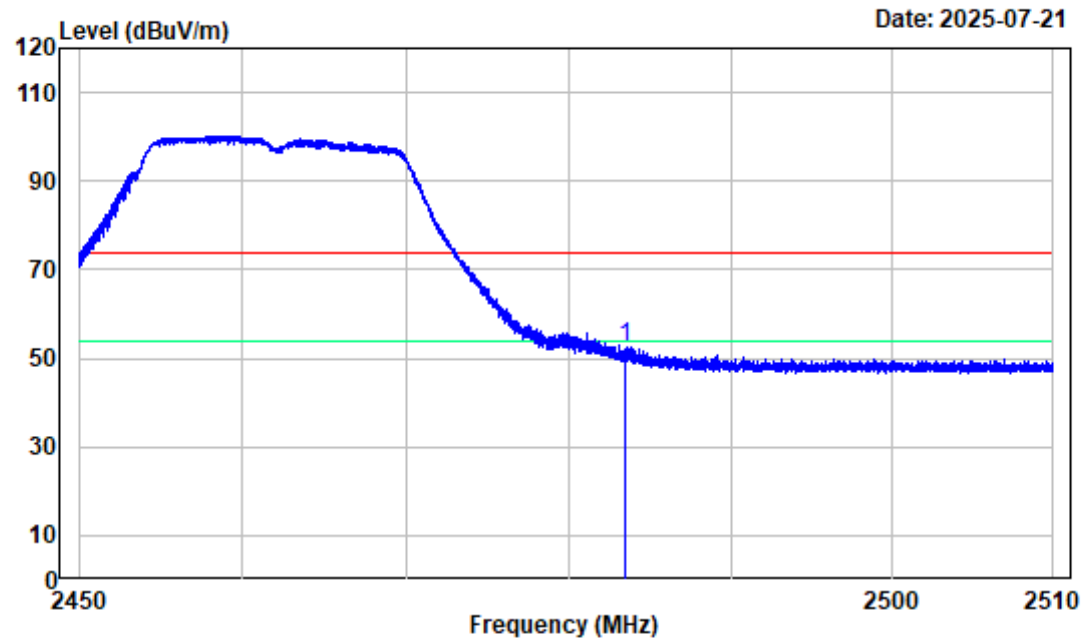
802.11G High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	60.36	50.13	74.00	-23.87 peak
2	2491.520	-10.25	60.68	50.43	74.00	-23.57 Peak

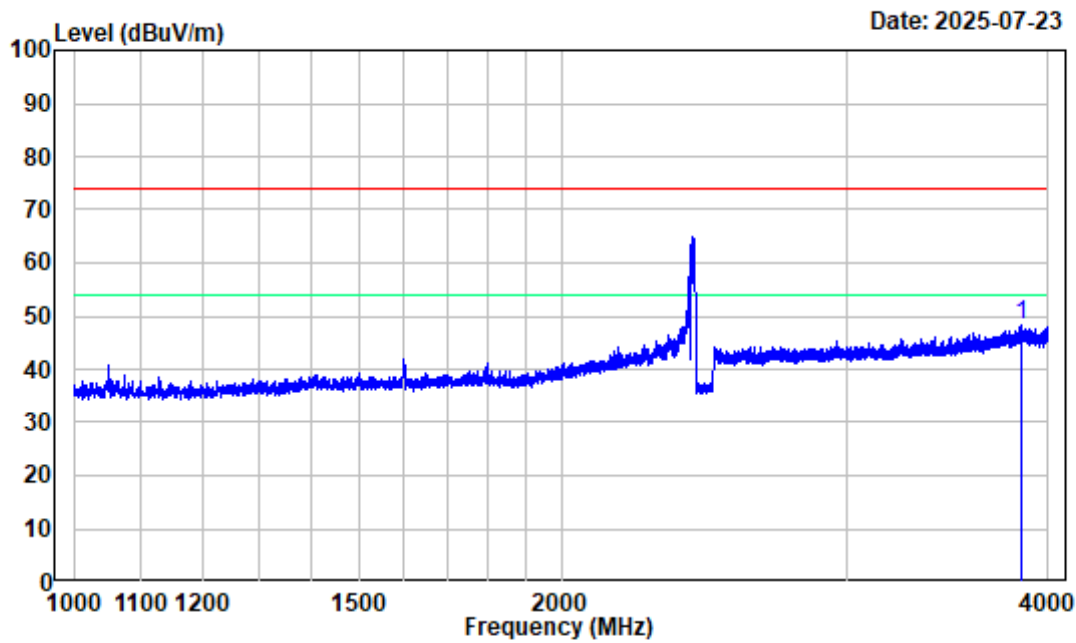
802.11G High Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11G High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	62.69	52.46	74.00	-21.54 peak

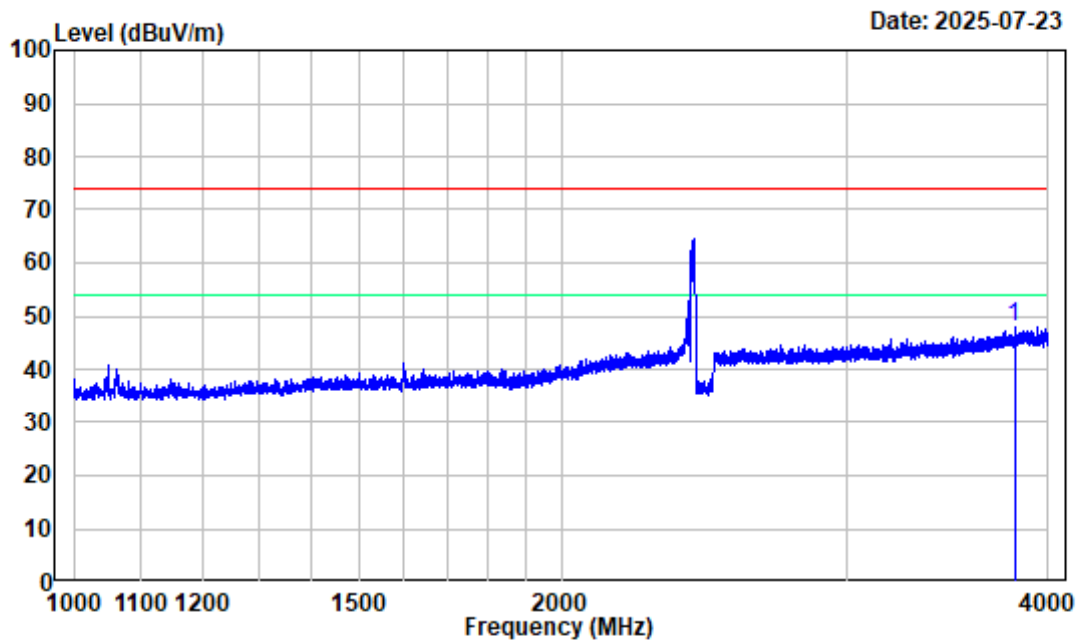
802.11N20 Low Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Low Channel 2412MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3851.125	-8.22	56.48	48.26	74.00	-25.74 Peak

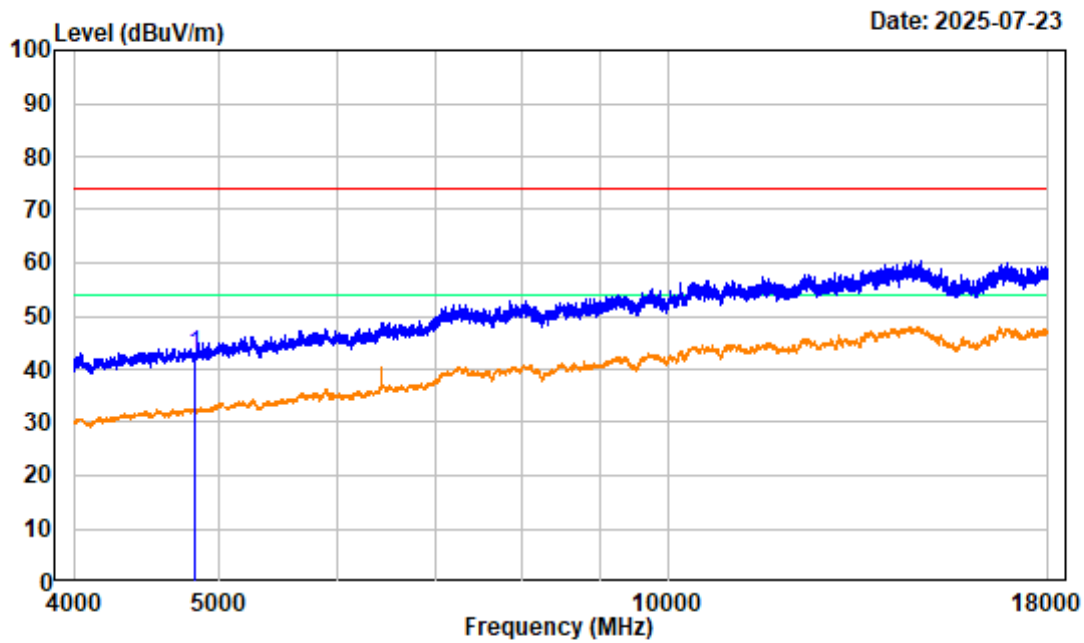
802.11N20 Low Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Low Channel 2412MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3813.250	-8.43	56.28	47.85	74.00	-26.15 Peak

802.11N20 Low Channel 4GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

Test Mode : Transmitting

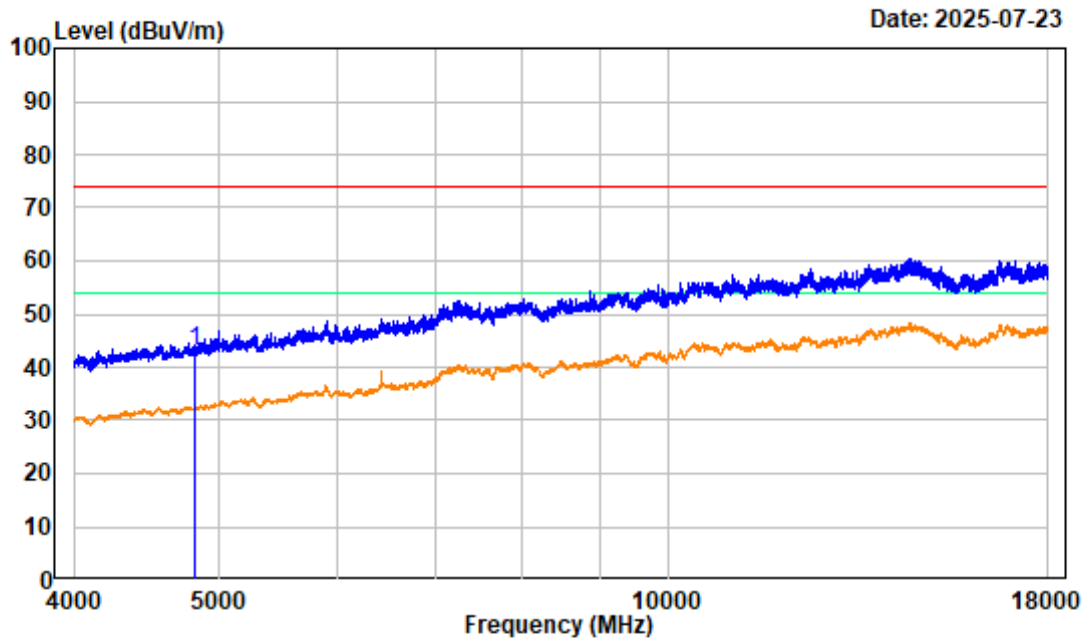
Tester:Kevin Lv

Note : 802.11N20 Low Channel 2412MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4824.250	-6.64	49.29	42.65	74.00	-31.35 Peak

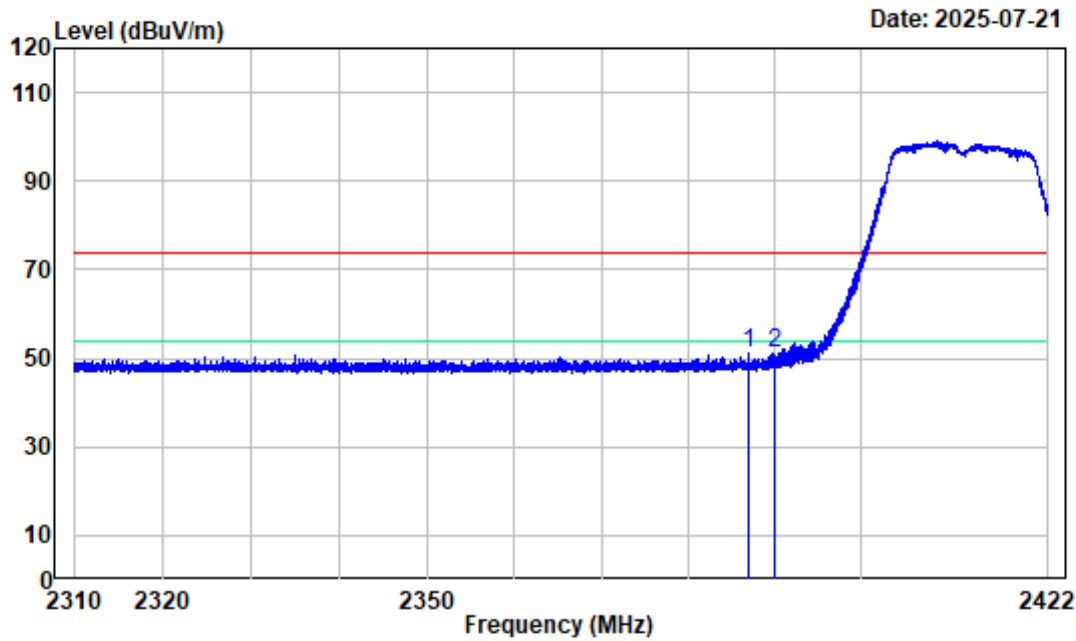
802.11N20 Low Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Low Channel 2412MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4824.250	-6.64	49.54	42.90	74.00	-31.10	Peak

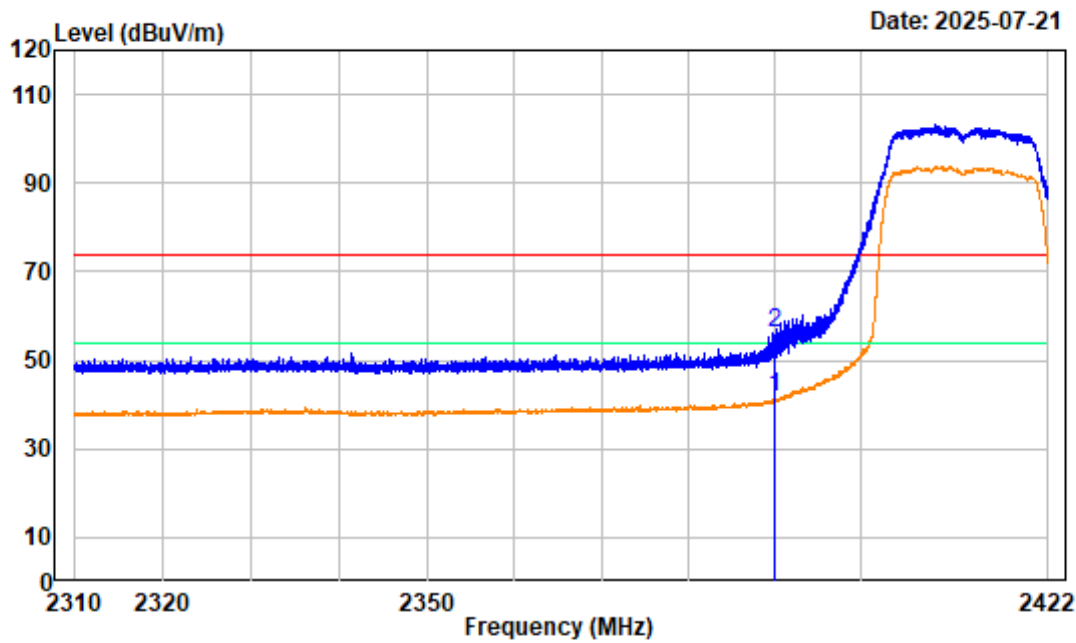
802.11N20 Low Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2386.986	-10.25	61.63	51.38	74.00	-22.62 Peak
2	2390.000	-10.25	61.58	51.33	74.00	-22.67 peak

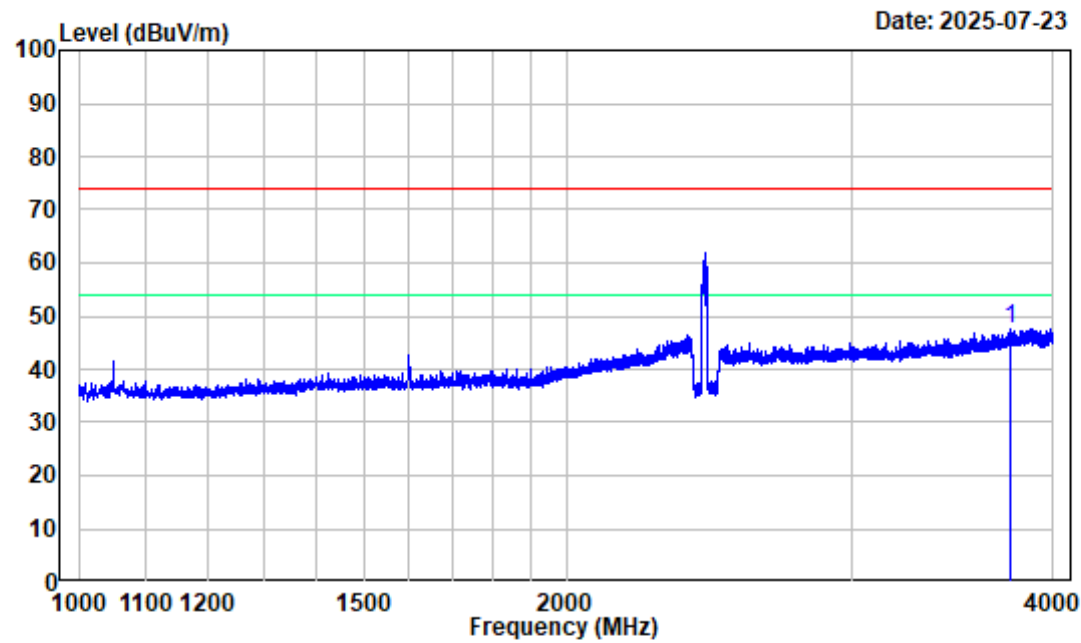
802.11N20 Low Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Low Channel 2412MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	-10.25	51.92	41.67	54.00	-12.33 Average
2	2390.000	-10.25	66.49	56.24	74.00	-17.76 peak

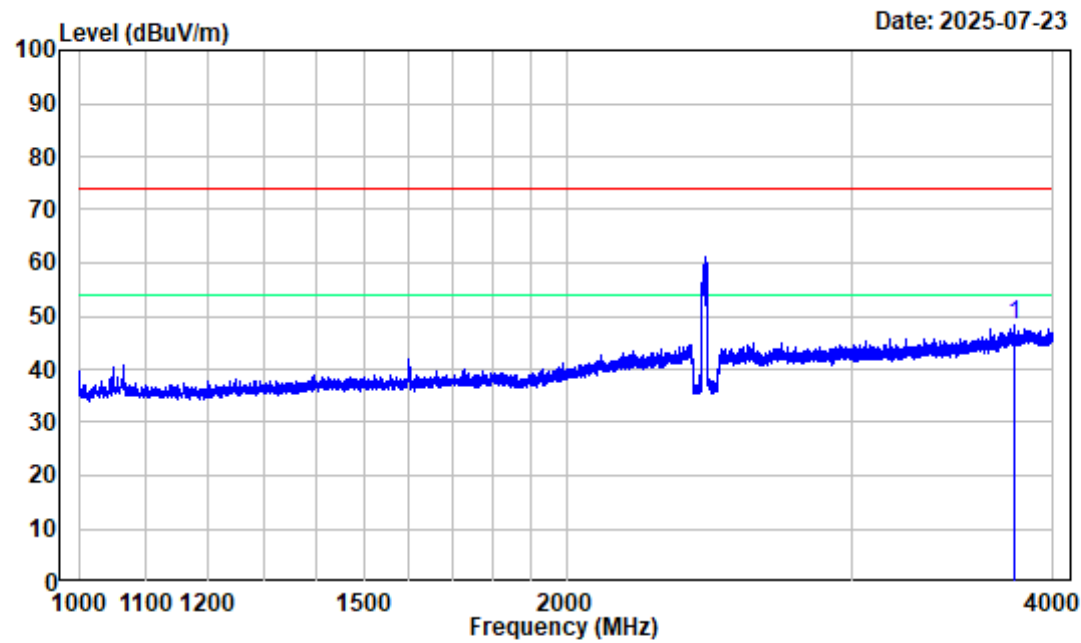
802.11N20 Middle Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Middle Channel 2437MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read	Limit	Over	Remark	
MHz	dB/m	Level	Level	Line		
		dBuV	dBuV/m	dBuV/m	dB	
1	3759.625	-8.60	56.06	47.46	74.00	-26.54 Peak

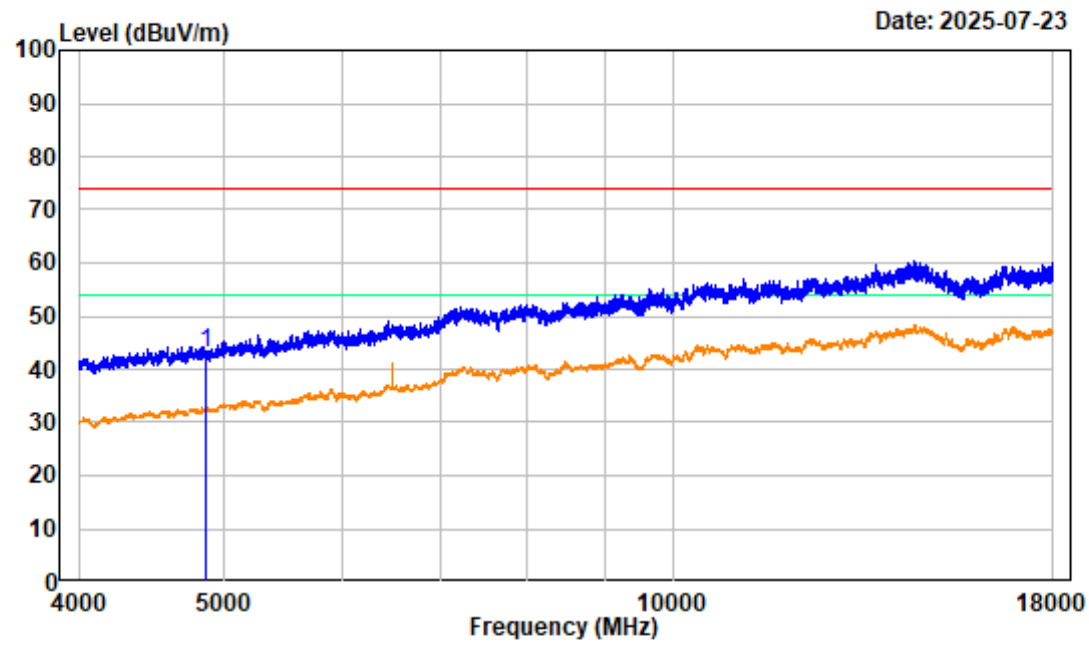
802.11N20 Middle Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Middle Channel 2437MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	Line	Limit	
1	3788.875	-8.51	56.78	48.27	74.00	-25.73 Peak

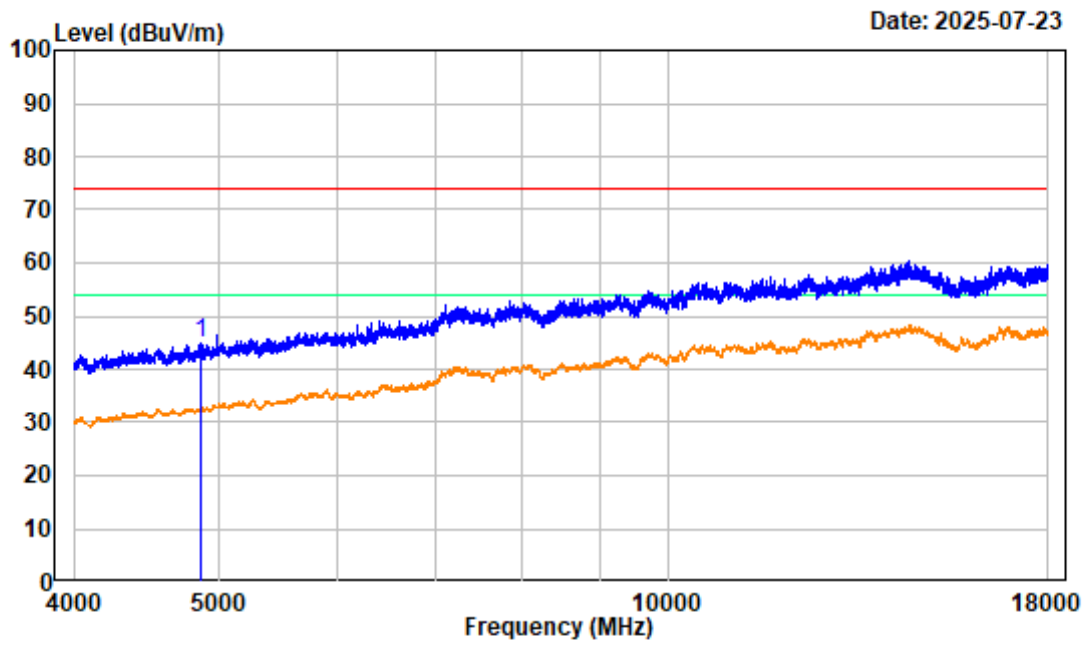
802.11N20 Middle Channel 4GHz-18GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Middle Channel 2437MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4873.250	-6.59	49.53	42.94	74.00	-31.06 Peak

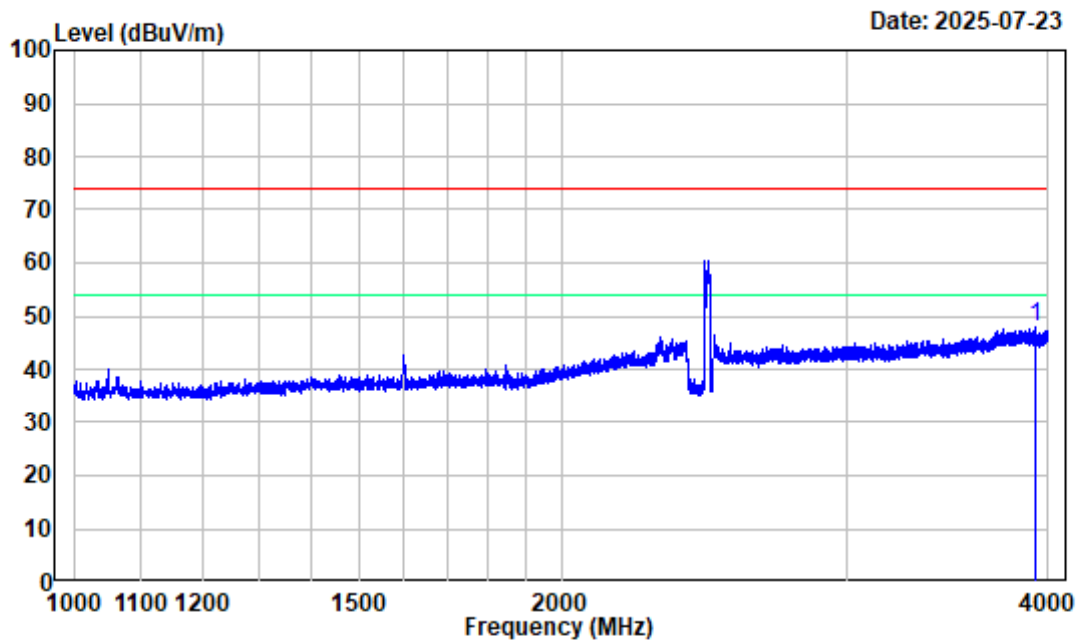
802.11N20 Middle Channel 4GHz-18GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 Middle Channel 2437MHz 4GHz-18GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4873.250	-6.59	51.39	44.80	74.00	-29.20	Peak

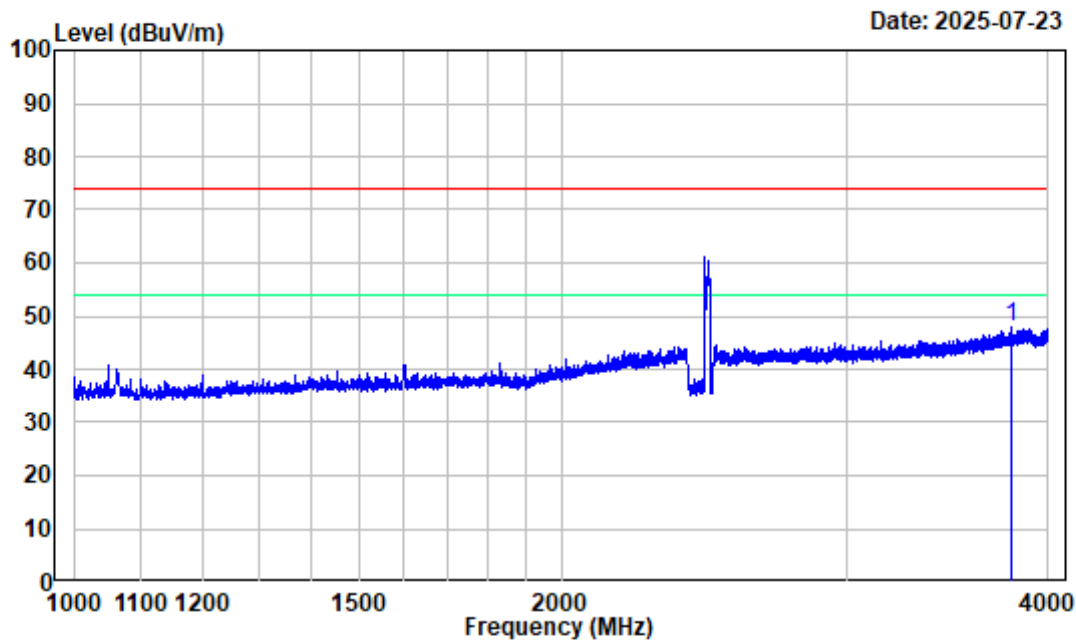
802.11N20 High Channel 1GHz-4GHz_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 High Channel 2462MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3931.000	-8.25	55.99	47.74	74.00	-26.26 Peak

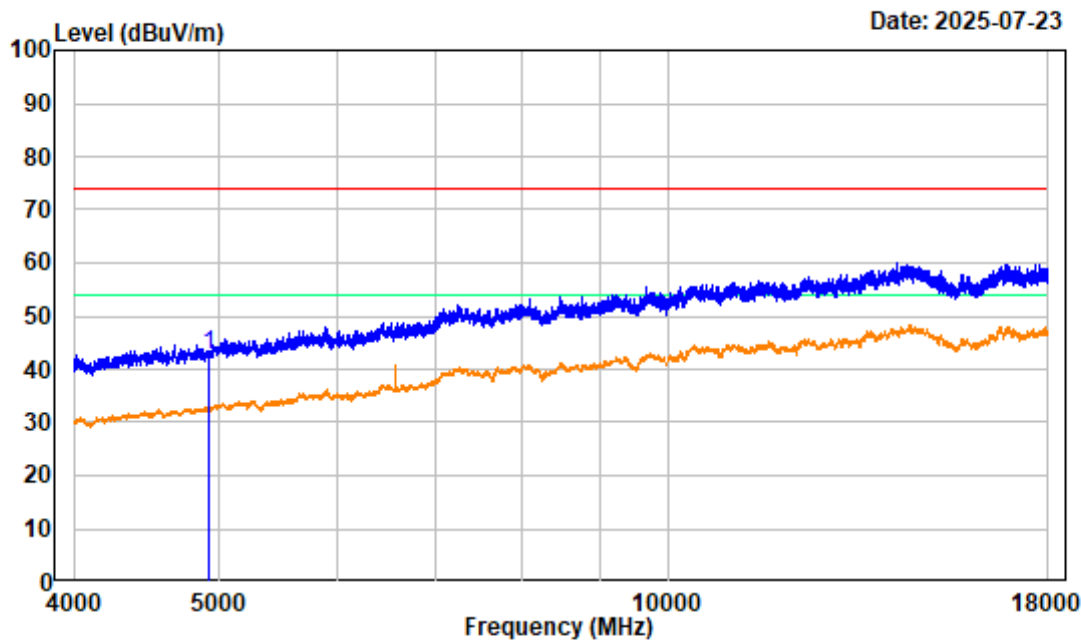
802.11N20 High Channel 1GHz-4GHz_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 High Channel 2462MHz 1GHz-4GHz
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3795.625	-8.50	56.36	47.86	74.00	-26.14 Peak

802.11N20 High Channel 4GHz-18GHz_HORIZONTAL



Site : chamber

Condition : 3m HORIZONTAL

Project No.: 2504V05608E-RF

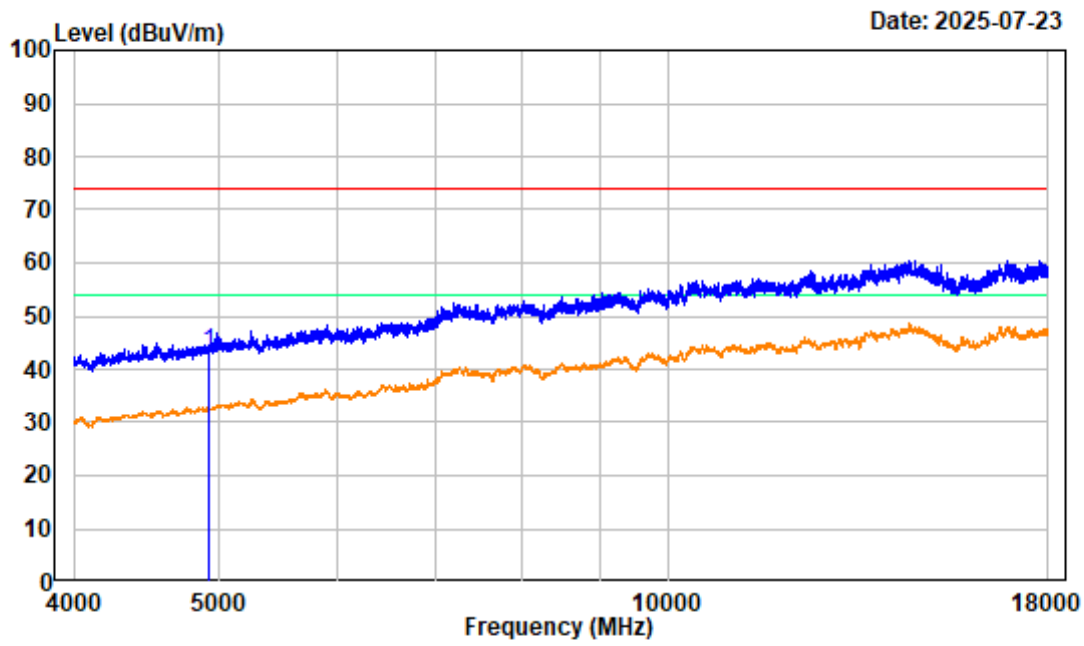
Test Mode : TransmittingTester:Kevin Lv

Note : 802.11N20 High Channel 2462MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4924.000	-6.48	49.15	42.67	74.00	-31.33 Peak

802.11N20 High Channel 4GHz-18GHz_VERTICAL



Site : chamber

Condition : 3m VERTICAL

Project No.: 2504V05608E-RF

Test Mode : Transmitting

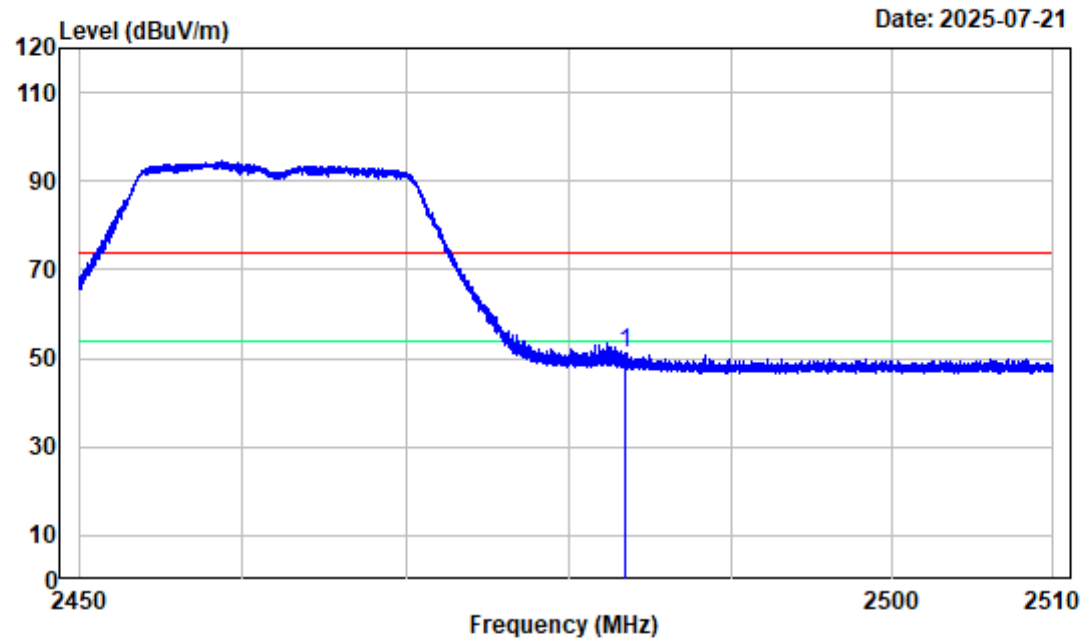
Tester:Kevin Lv

Note : 802.11N20 High Channel 2462MHz 4GHz-18GHz

SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level		Limit	Over	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1 4924.000	-6.48	49.48	43.00	74.00	-31.00	Peak

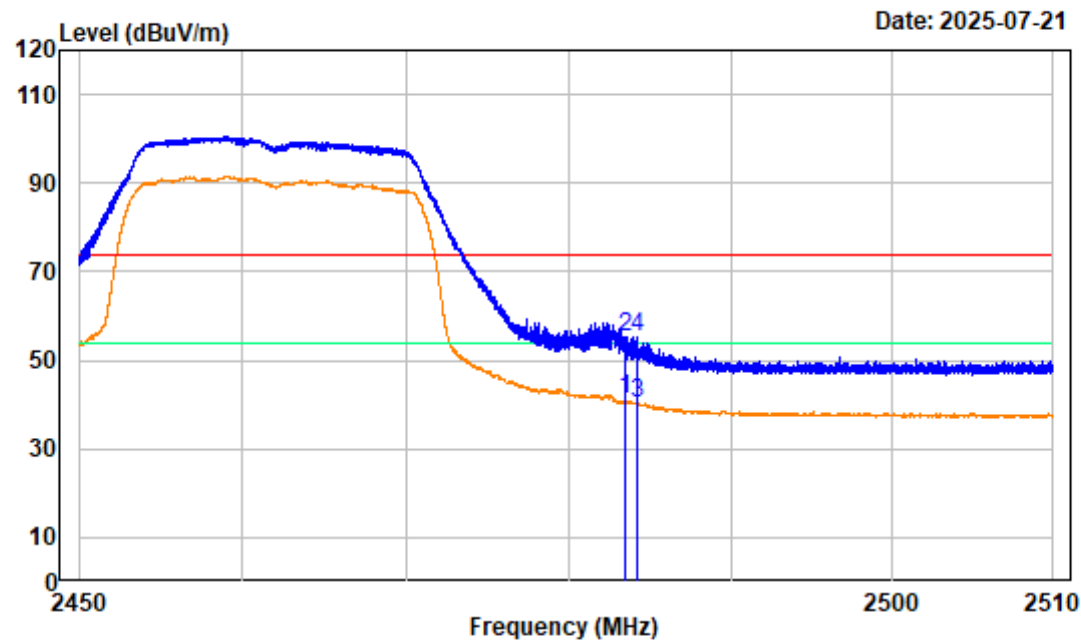
802.11N20 High Channel Bandedge_HORIZONTAL



Site : chamber
Condition : 3m HORIZONTAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	61.34	51.11	74.00	-22.89 peak

802.11N20 High Channel Bandedge_VERTICAL



Site : chamber
Condition : 3m VERTICAL
Project No.: 2504V05608E-RF
Test Mode : Transmitting Tester:Kevin Lv
Note : 802.11N20 High Channel 2462MHz Bandedge
SA setting : Peak:RBW:1MHz,VBW:3MHz Ave:RBW:1MHz,VBW:3kHz

Freq Factor		Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-10.23	51.60	41.37	54.00	-12.63 Average
2	2483.500	-10.23	65.68	55.45	74.00	-18.55 peak
3	2484.252	-10.23	50.71	40.48	54.00	-13.52 Average
4	2484.252	-10.23	65.68	55.45	74.00	-18.55 Peak

FCC §15.247(a) (2)-6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

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.

Test Procedure

According to ANSI C63.10-2020, section 11.8 and section 6.9

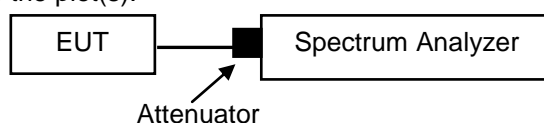
The steps for the first option are as follows:

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

According to ANSI C63.10-2020, section 7.8.6 and section 6.9.3

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

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Test Data

Test Result: Compliance. Please refer to the Appendix.

FCC §15.247(b) (3)-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.

Test Procedure

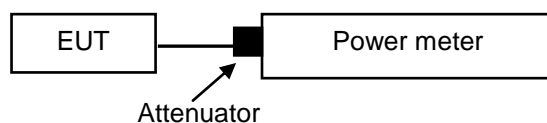
According to ANSI C63.10-2020, section 11.9.1.2

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.

According to ANSI C63.10-2020, section 11.9.2.3

● Measurement using a power meter (PM)(Method AVGPM)

- a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent, if all of the conditions listed below are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Correct the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.



Test Data

Test Result: Compliance. Please refer to the Appendix.

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

Applicable Standard

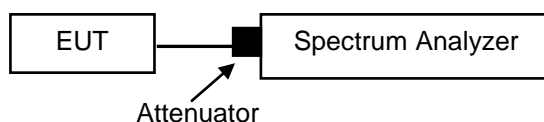
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

Test Procedure

According to ANSI C63.10-2020, section 11.11

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution. NOTE—the number of points can also be increased for large spans to retain frequency resolution
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.



Test Data

Test Result: Compliance. Please refer to the Appendix.

FCC §15.247(e)-POWER SPECTRAL DENSITY

Applicable Standard

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.

Test Procedure

According to ANSI C63.10-2020, section 11.10.2

- Method PKPSD (peak PSD)

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span > 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

According to ANSI C63.10-2020, section 11.10.3

- Method AVGPSSD-1: (for duty cycle $\geq 98\%$)

The following procedure may be used when the maximum (average) conducted output power was used to determine compliance to the fundamental output power limit. This is the baseline method for determining the maximum (average) conducted PSD level. If the instrument has a power averaging (rms) detector, then it must be used; otherwise, use the sample detector. The EUT must be configured to transmit continuously ($D \geq 98\%$), or else sweep triggering/signal gating must be implemented to help ensure that measurements are made only when the EUT is transmitting at its maximum power control level (no transmitter OFF time to be considered):

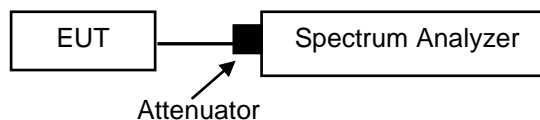
- Set instrument center frequency to DTS channel center frequency.
- Set span to > 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Detector = power averaging (rms) or sample detector (when rms not available).
- Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- Sweep time = auto couple.
- Employ trace averaging (rms) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

According to ANSI C63.10-2020, section 11.10.5

● Method AVGPSD-2: (for duty cycle < 98% and constant duty cycle)

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

- a) Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
- b) Set instrument center frequency to DTS channel center frequency.
- c) Set span to > 1.5 times the OBW.
- d) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- e) Set VBW $\geq [3 \times \text{RBW}]$.
- f) Detector = power averaging (rms) or sample detector (when rms not available).
- g) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- h) Sweep time = auto couple.
- i) Do not use sweep triggering; allow sweep to "free run."
- j) Employ trace averaging (rms) mode over a minimum of 100 traces.
- k) Use the peak marker function to determine the maximum amplitude level.
- l) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- m) If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).



Test Data

Test Result: Compliance. Please refer to the Appendix.

APPENDIX

Test Information:

Sample No.:	34RF-1	Test Date:	2025/07/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

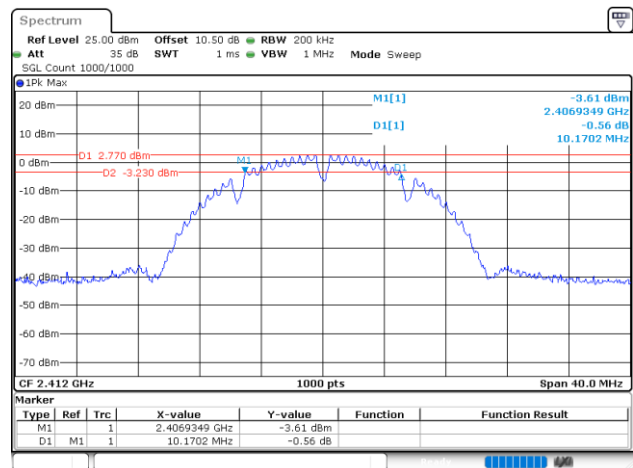
Environmental Conditions:

Temperature: (°C)	25.9	Relative Humidity: (%)	44	ATM Pressure: (kPa)	100.1
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6dB Emission Bandwidth

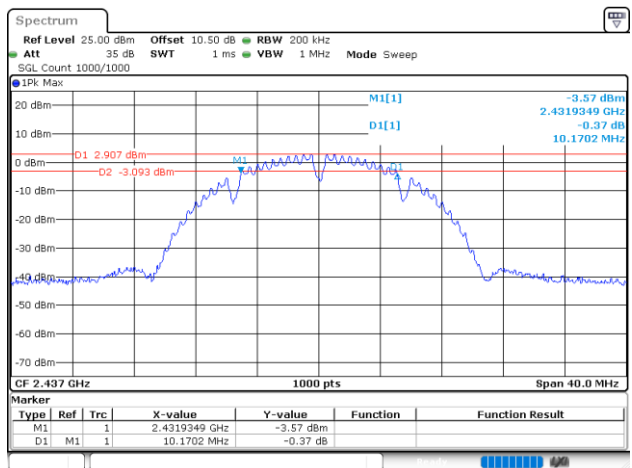
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	2412	10.170	≥0.5	Pass
	2437	10.170	≥0.5	Pass
	2462	10.170	≥0.5	Pass
802.11g	2412	16.497	≥0.5	Pass
	2437	16.416	≥0.5	Pass
	2462	16.457	≥0.5	Pass
802.11n20	2412	17.698	≥0.5	Pass
	2437	17.698	≥0.5	Pass
	2462	17.698	≥0.5	Pass

802.11b_2412MHz



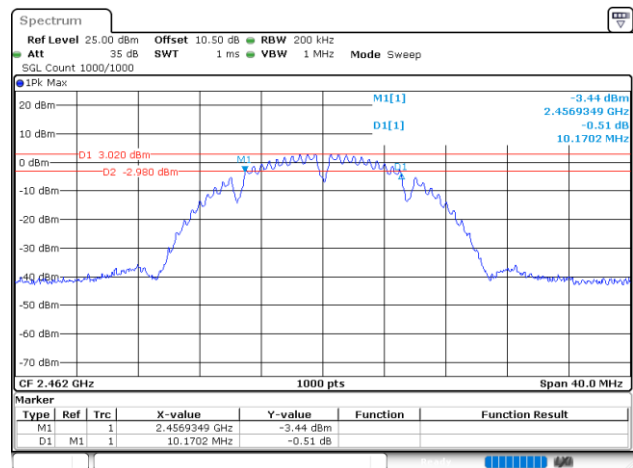
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:18:10

802.11b_2437MHz



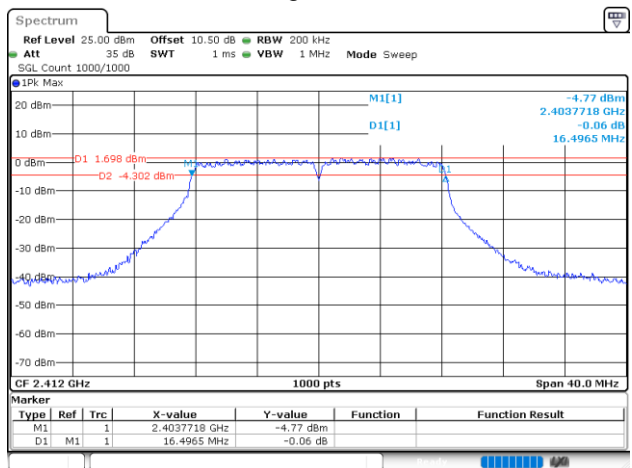
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Date: 11.JUL.2025 15:22:13

802.11b_2462MHz



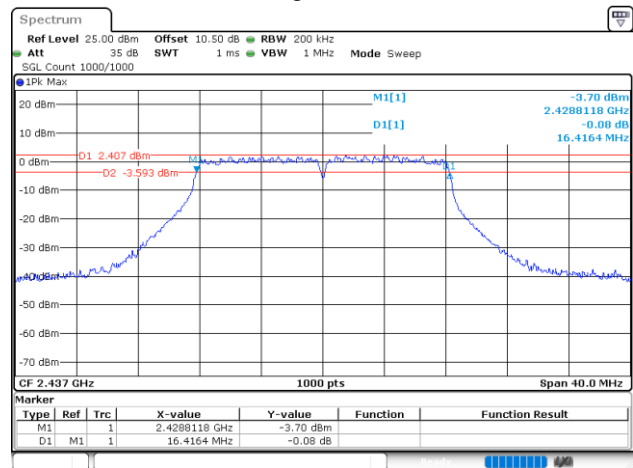
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Date: 11.JUL.2025 15:24:09

802.11g_2412MHz



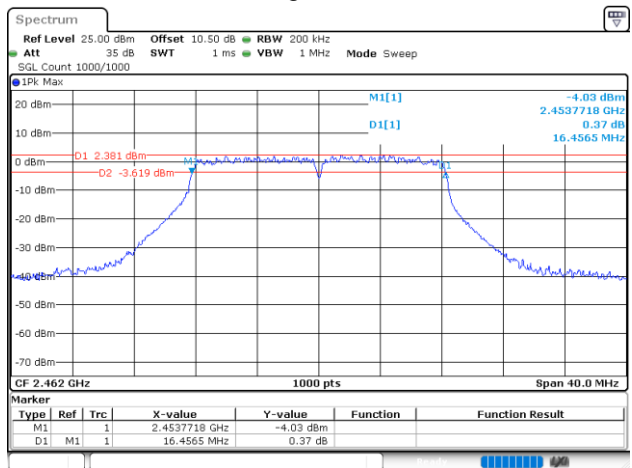
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Date: 11.JUL.2025 15:28:45

802.11g_2437MHz



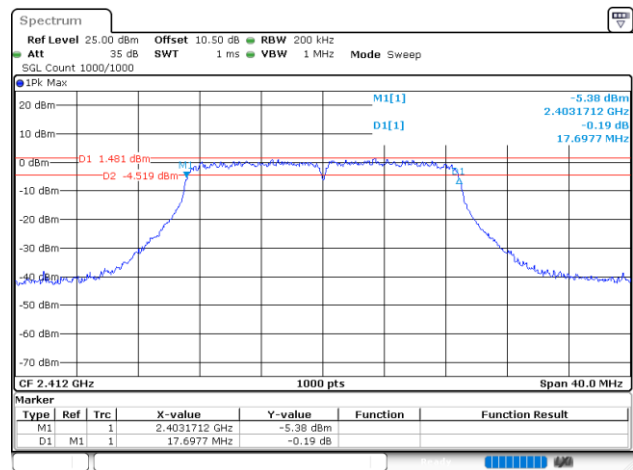
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Date: 11.JUL.2025 15:31:07

802.11g_2462MHz



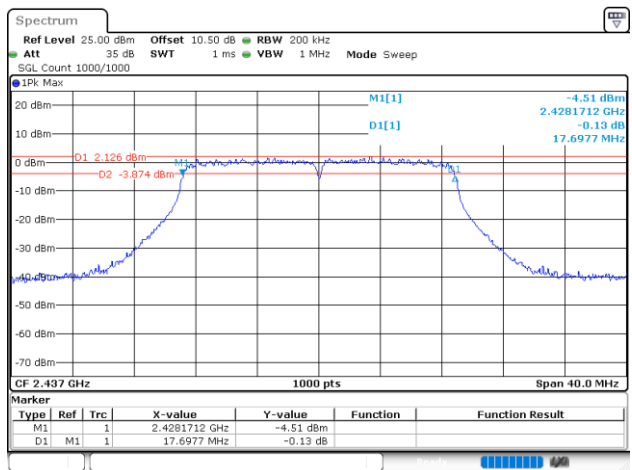
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Date: 11.JUL.2025 15:33:21

802.11n20_2412MHz



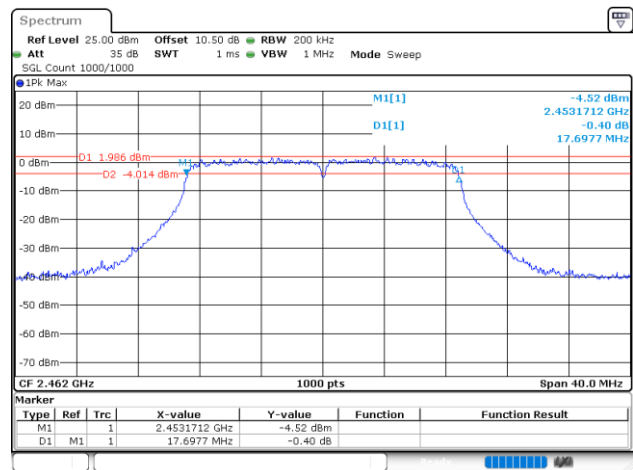
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Date: 11.JUL.2025 15:35:59

802.11n20_2437MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:56:32

802.11n20_2462MHz

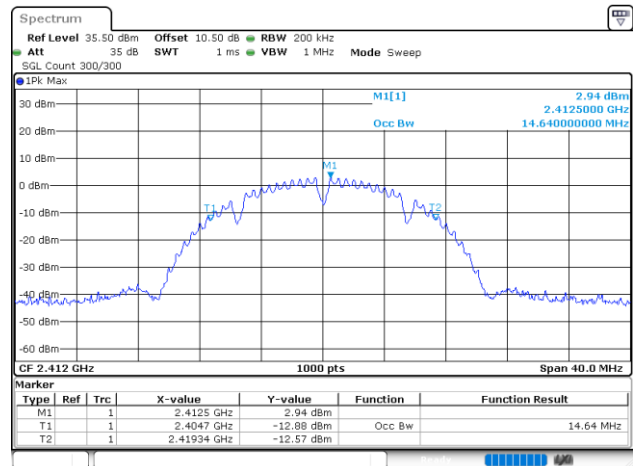


ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:58:59

99% Occupied Bandwidth

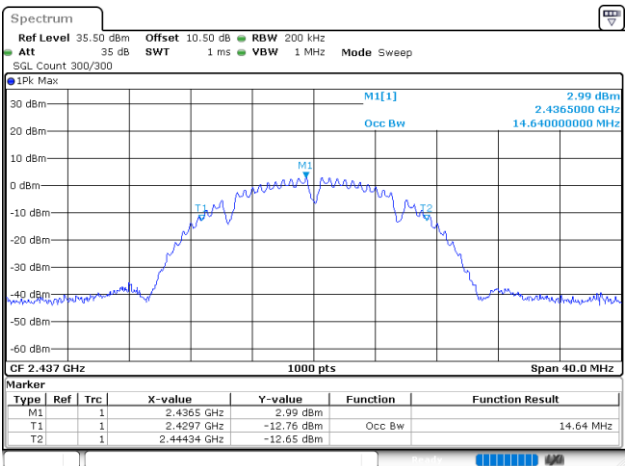
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11b	2412	14.640
	2437	14.640
	2462	14.640
802.11g	2412	16.520
	2437	16.520
	2462	16.520
802.11n20	2412	17.680
	2437	17.640
	2462	17.680

802.11b_2412MHz



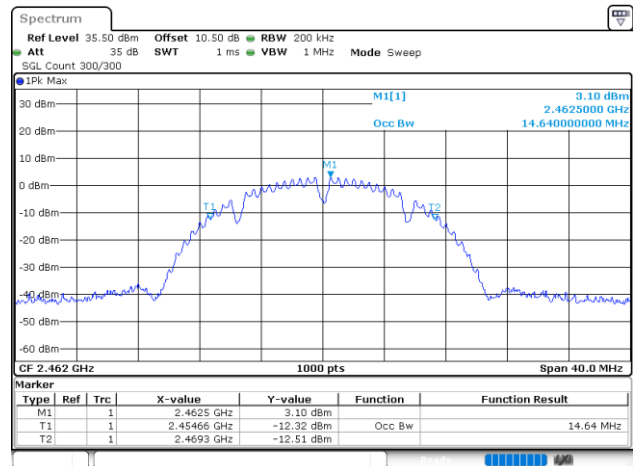
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802.11b_2437MHz



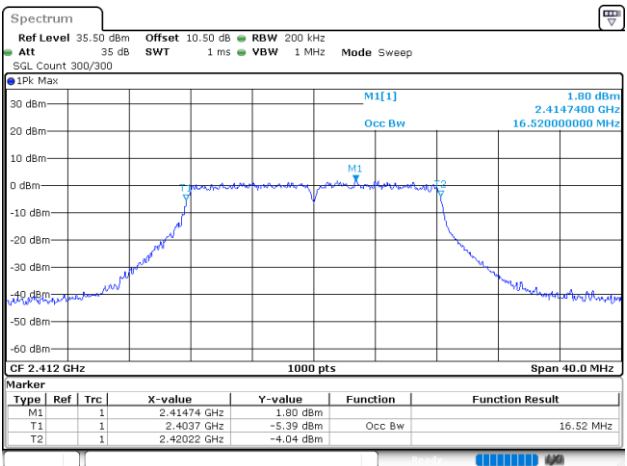
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Date: 11.JUL.2025 15:21:53

802.11b_2462MHz



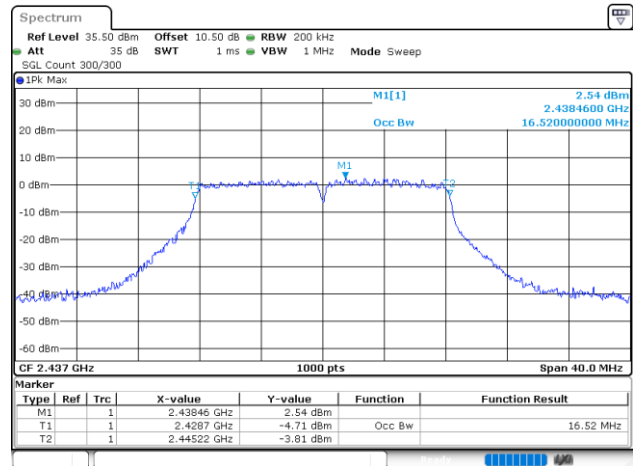
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Date: 11.JUL.2025 15:23:48

802.11g_2412MHz



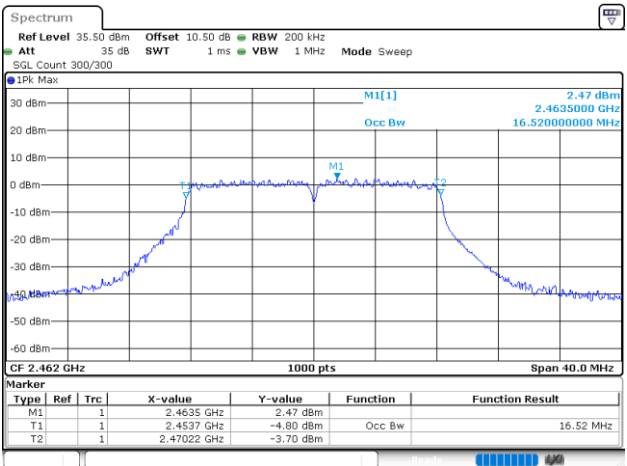
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Date: 11.JUL.2025 15:28:20

802.11g_2437MHz



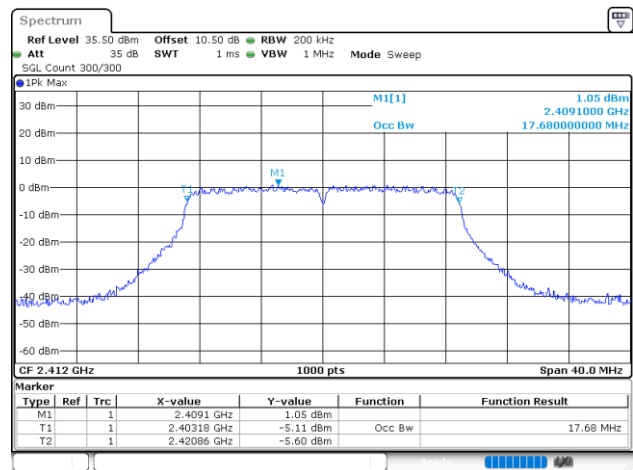
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Date: 11.JUL.2025 15:30:47

802.11g_2462MHz



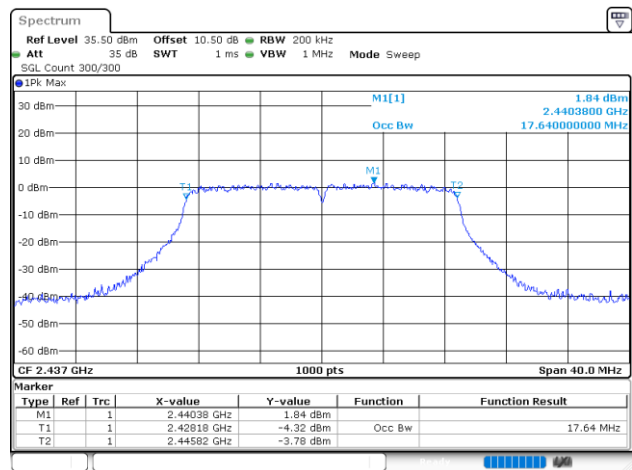
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802.11n20_2412MHz



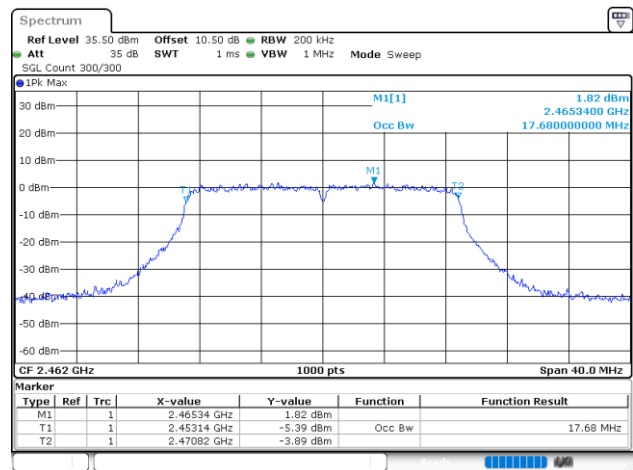
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Date: 11.JUL.2025 15:35:34

802.11n20_2437MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:56:12

802.11n20_2462MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:58:37

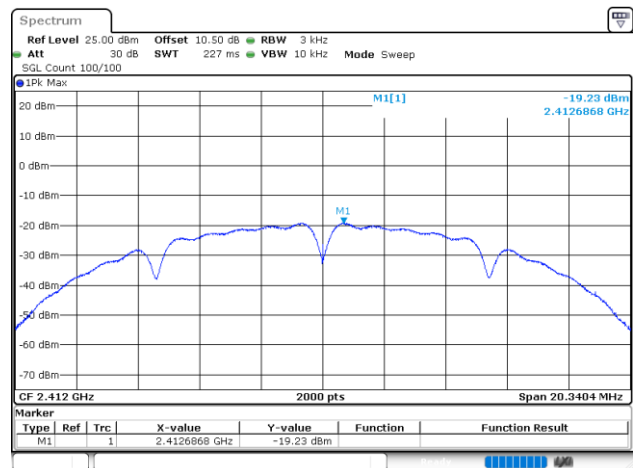
Maximum Conducted Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11b	2412	14.03	11.40	30	Pass
	2437	14.29	11.72	30	Pass
	2462	14.45	11.88	30	Pass
802.11g	2412	23.32	13.48	30	Pass
	2437	23.31	13.47	30	Pass
	2462	23.28	13.55	30	Pass
802.11n20	2412	22.23	12.84	30	Pass
	2437	22.79	13.44	30	Pass
	2462	22.66	13.37	30	Pass

Power Spectral Density

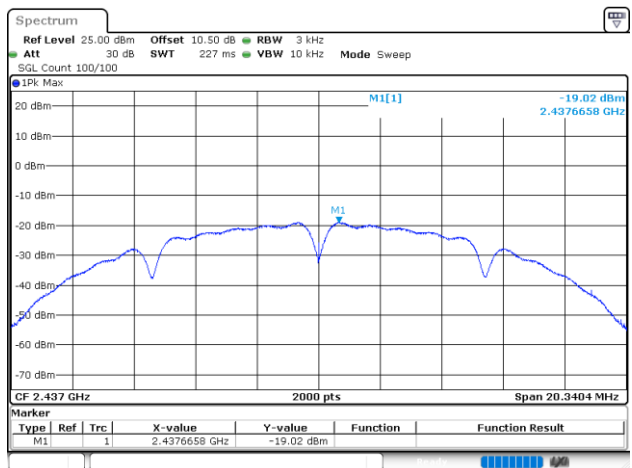
Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-19.23	8	Pass
	2437	-19.02	8	Pass
	2462	-18.90	8	Pass
802.11g	2412	-16.25	8	Pass
	2437	-15.77	8	Pass
	2462	-15.55	8	Pass
802.11n20	2412	-16.22	8	Pass
	2437	-15.18	8	Pass
	2462	-15.34	8	Pass

802.11b_2412MHz



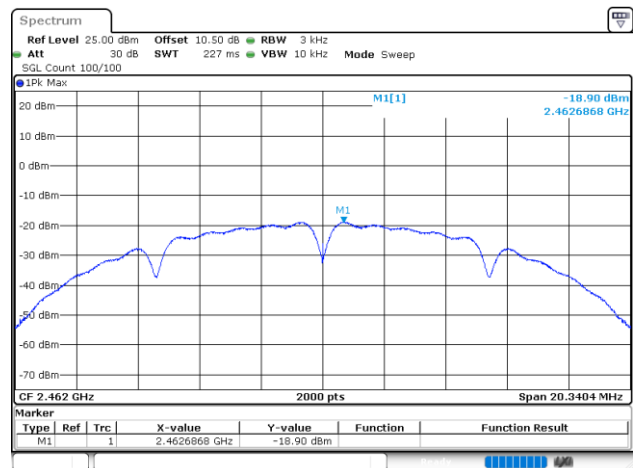
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802.11b_2437MHz



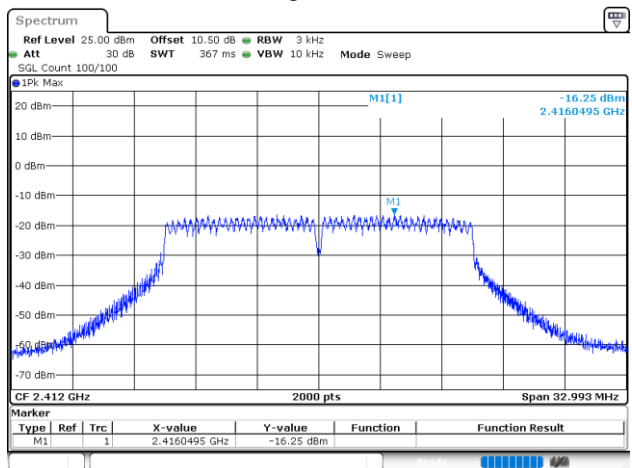
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Date: 11.JUL.2025 15:23:27

802.11b_2462MHz



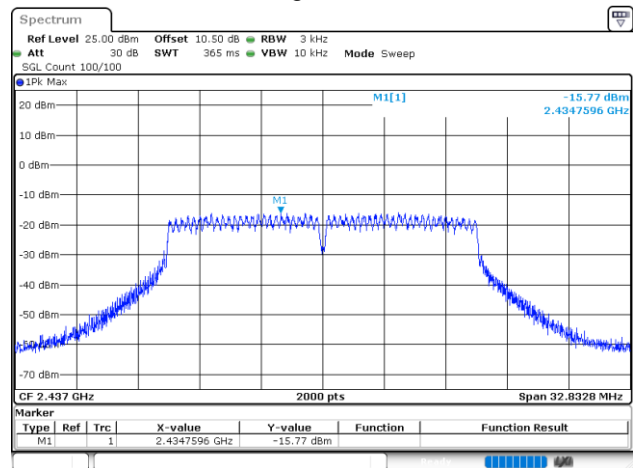
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Date: 11.JUL.2025 15:25:35

802.11g_2412MHz



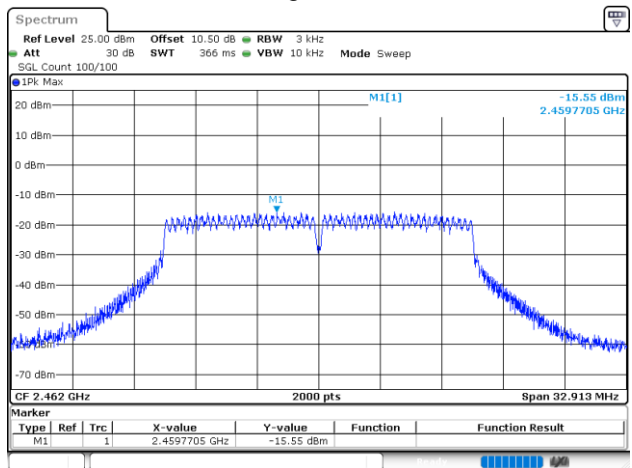
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802.11g_2437MHz



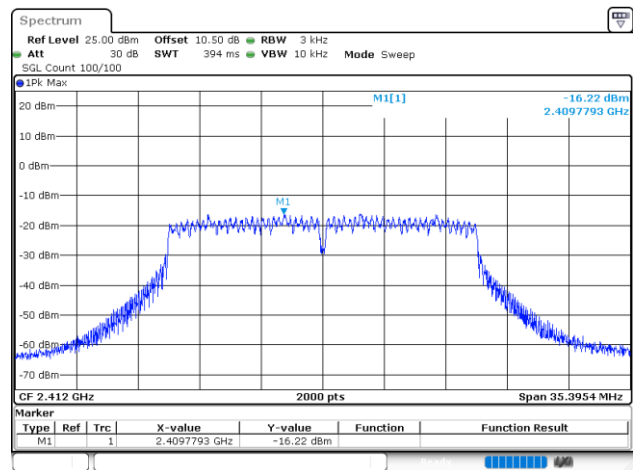
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802.11g_2462MHz



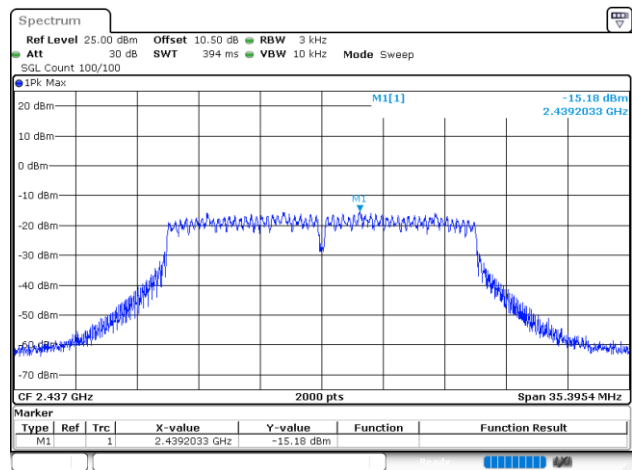
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802.11n20_2412MHz



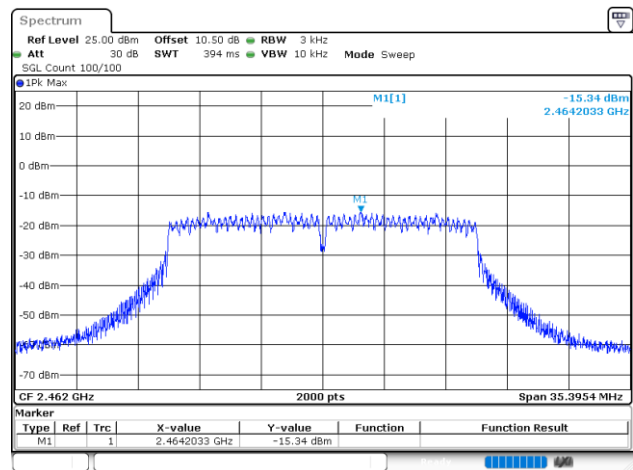
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802.11n20_2437MHz



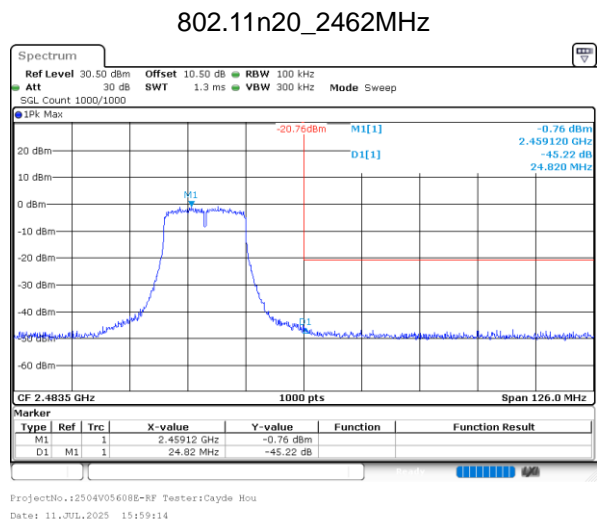
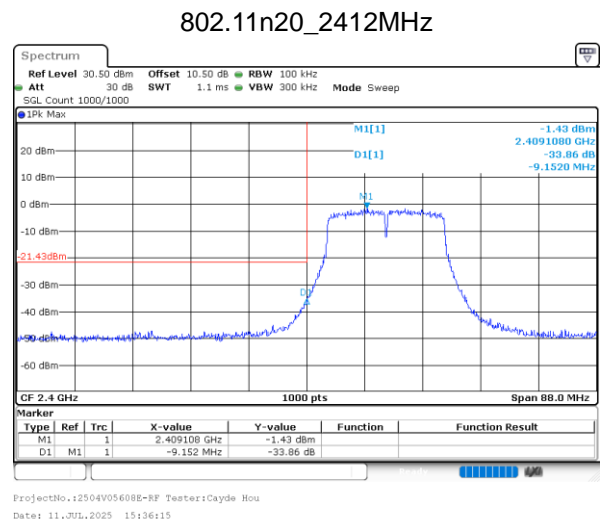
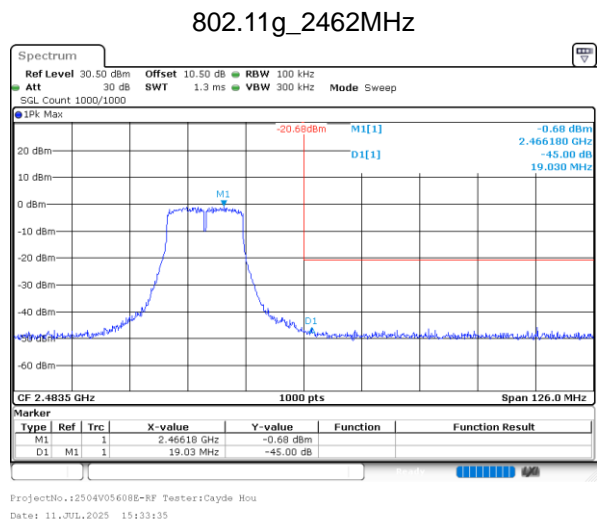
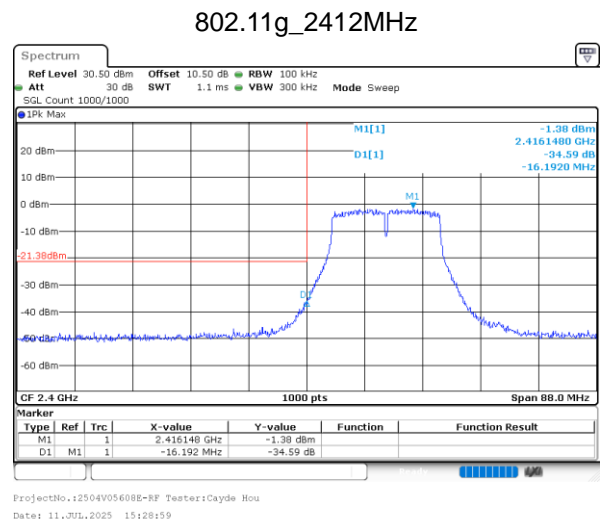
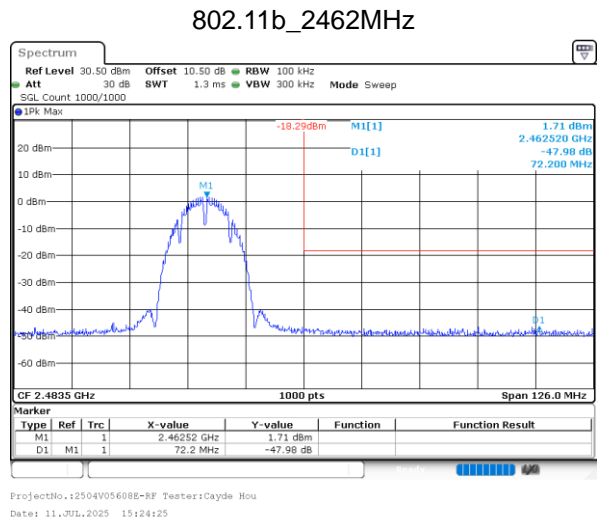
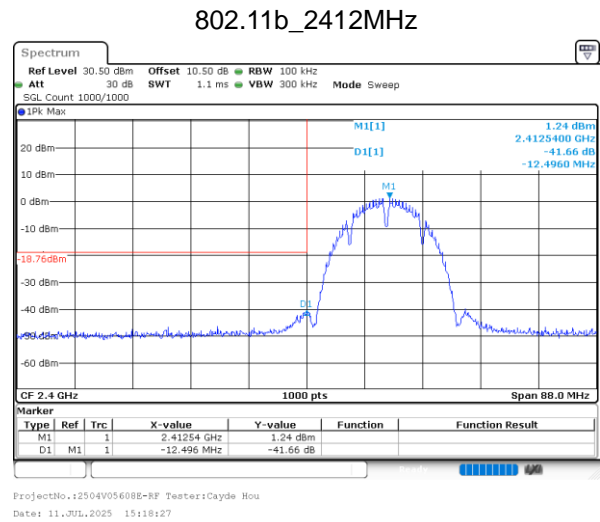
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:58:08

802.11n20_2462MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 16:00:44

100 kHz Bandwidth of Frequency Band Edge

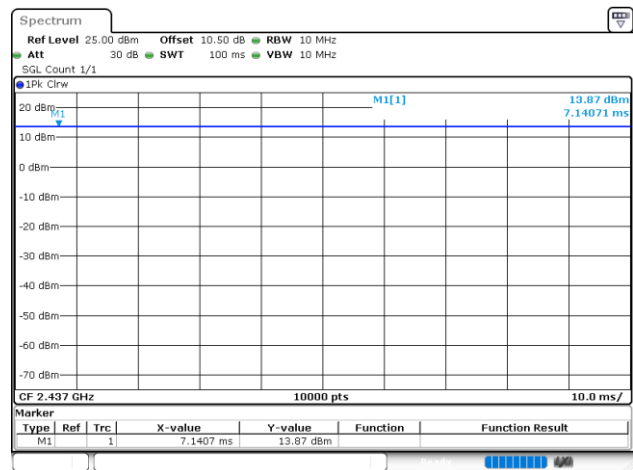


Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	2437	100	100	100	0	NA	0.010
802.11g	2437	100	100	100	0	NA	0.010
802.11n20	2437	100	100	100	0	NA	0.010

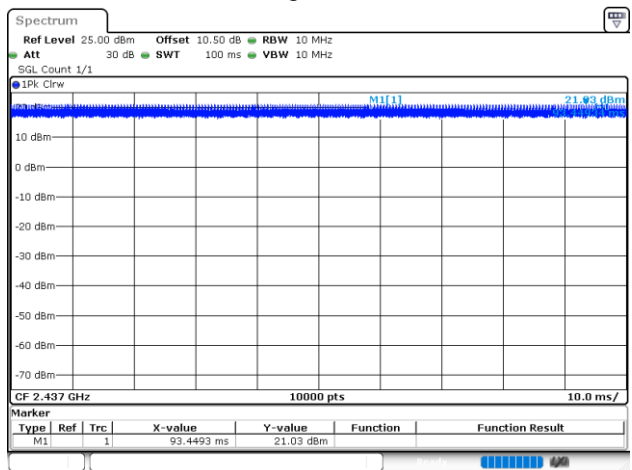
Duty Cycle = Ton/(Ton+Toff)*100%

802.11b_2437MHz



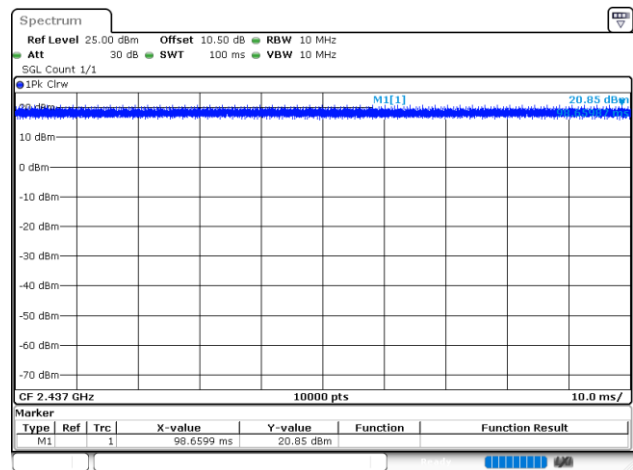
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:15:29

802.11g_2437MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:15:58

802.11n20_2437MHz

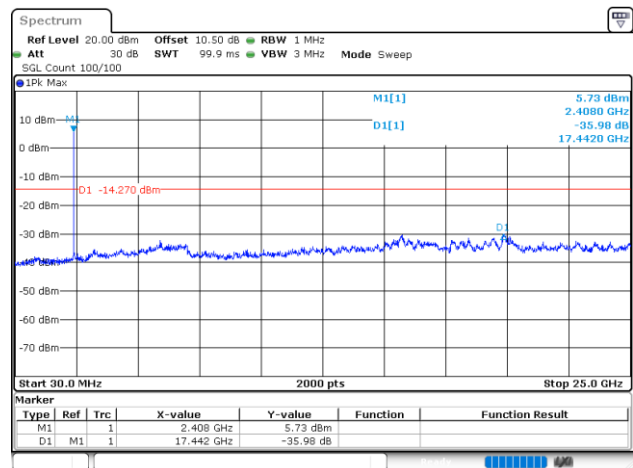


ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:16:25

Conducted Spurious Emission

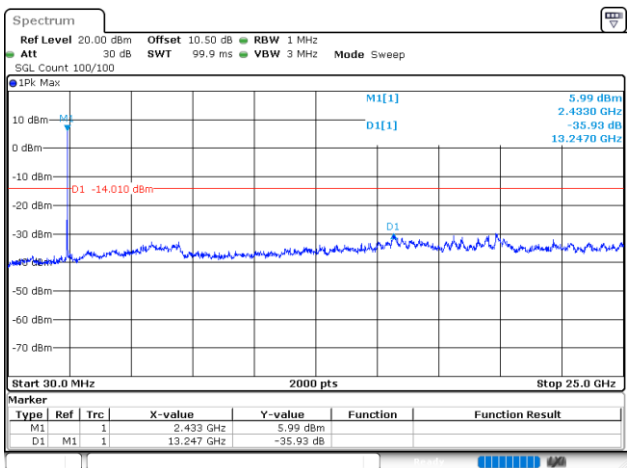
Mode	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
802.11b	2412	35.98	20	Pass
	2437	35.93	20	Pass
	2462	36.08	20	Pass
802.11g	2412	38.39	20	Pass
	2437	38.84	20	Pass
	2462	38.84	20	Pass
802.11n20	2412	38.69	20	Pass
	2437	39.28	20	Pass
	2462	39.54	20	Pass

802.11b_2412MHz



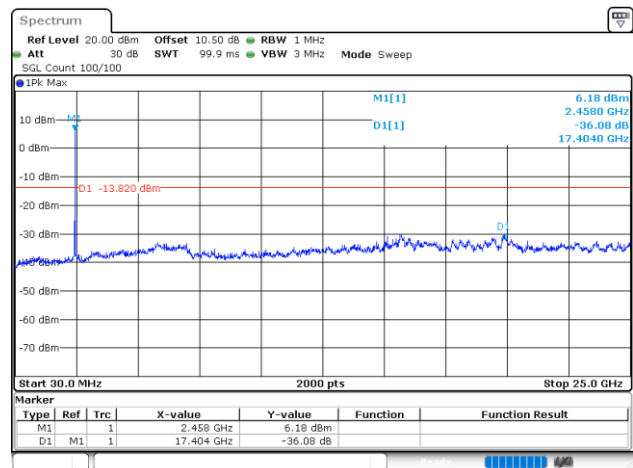
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:19:07

802.11b_2437MHz



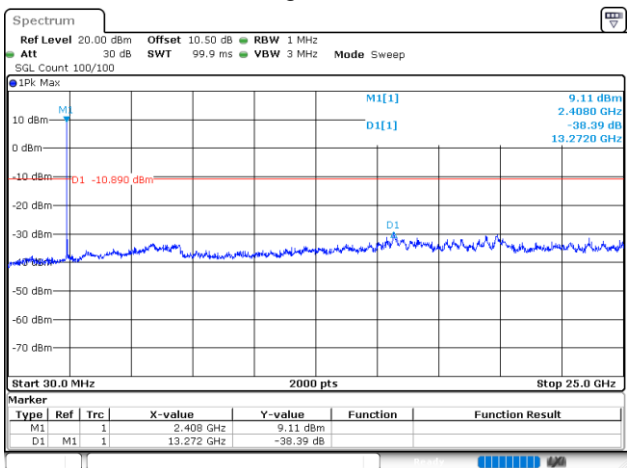
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:22:58

802.11b_2462MHz



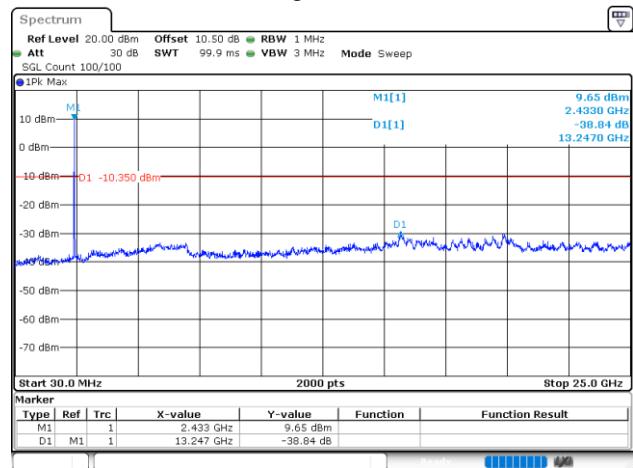
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Date: 11.JUL.2025 15:25:05

802.11g_2412MHz



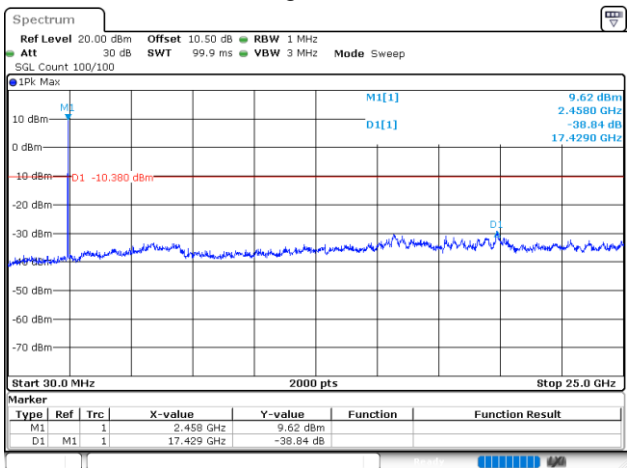
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Date: 11.JUL.2025 15:29:40

802.11g_2437MHz



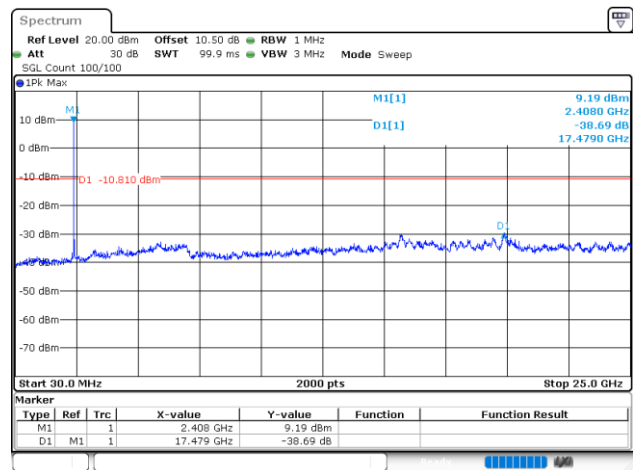
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Date: 11.JUL.2025 15:31:52

802.11g_2462MHz



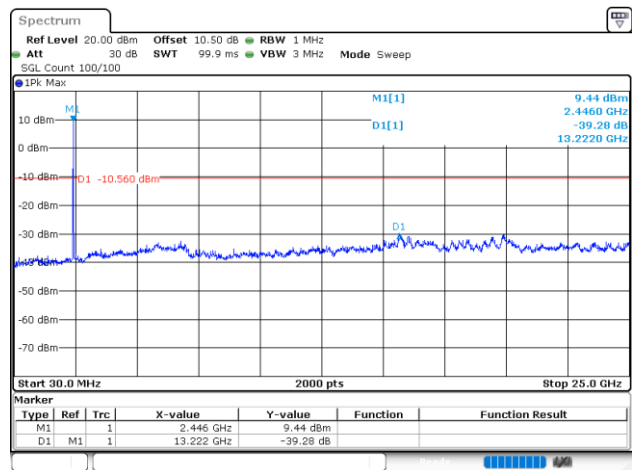
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:34:16

802.11n20_2412MHz



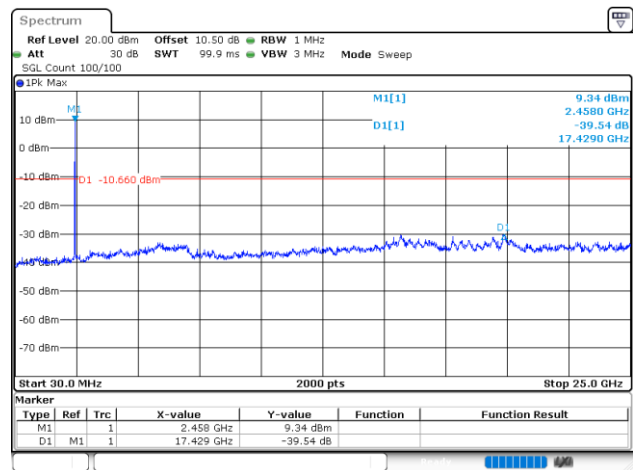
ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:36:55

802.11n20_2437MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:57:19

802.11n20_2462MHz



ProjectNo.:2504V05608E-RF Tester:Cayde Hou
Date: 11.JUL.2025 15:59:54

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2504V05608E-RF EUT External Photos and Attachment No.2 2504V05608E-RF EUT Internal Photos

EXHIBIT B-TEST SETUP PHOTOGRAPHS

Please refer to the Attachment No.3 2504V05608E-RF Test Photos.

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