CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

M1 Gateway

MODEL NUMBER: MDG59（SN）

REPORT NUMBER: 4791781592.2-1-RF-1

ISSUE DATE: July 1, 2025

FCC ID:2BF3F-MDG59

Prepared for

GD Midea Heating & Ventilating Equipment Co.,Ltd.
Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China.

Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	July 1, 2025	Initial Issue	

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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C> when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	GD Midea Heating & Ventilating Equipment Co.,Ltd.
Address:	Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China.

Manufacturer Information

Company Name:	GD Midea Heating & Ventilating Equipment Co.,Ltd.
Address:	Penglai Industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China.

EUT Information

EUT Name:	M1 Gateway
Model:	MDG59（SN）
Brand:	Midea
Sample Received Date:	May 30, 2025
Sample Status:	Normal
Sample ID:	852674
Date of Tested:	June 16, 2025 to July 1, 2025

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 FCC PART 15 SUBPART C	**Pass**

Prepared By:

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Laboratory Engineer

Checked By:

Kebo Zhang

Operations Leader

Approved By:

Stephen Guo

Operations Manager

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, ANSI C63.10-2013

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.

Note 1:
All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:
The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:
For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	M1 Gateway
Model	MDG59（SN）

Frequency Range:	2412 MHz to 2472 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE802.11b/g, IEEE802.11n HT20/n HT40, IEEE802.11ax HE20/ax HE40
Normal Test Voltage:	DC 12V/24V

Note: All power supply modes have been pre-scanned, only the worst data was recorded in the report.

5.2. CHANNEL LIST

Channel List For Bandwidth=20 MHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452	13	2472
2	2417	6	2437	10	2457	/	/
3	2422	7	2442	11	2462	/	/
4	2427	8	2447	12	2467	/	/

Channel List For Bandwidth=40 MHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442	11	2462	/	/
4	2427	8	2447	/	/	/	/
5	2432	9	2452	/	/	/	/
6	2437	10	2457	/	/	/	/

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5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2472	1-13[13]	17.19
g	2412 ~ 2472	1-13[13]	15.99
n HT20	2412 ~ 2472	1-13[13]	15.92
n HT40	2422 ~ 2462	3-11[9]	14.55
ax HE20	2412 ~ 2472	1-13[13]	16.07
ax HE40	2422 ~ 2462	3-11[9]	13.55

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH11, CH 13(High Channel)	2412 MHz, 2437 MHz, 2462 MHz, 2472 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH11, CH 13(High Channel)	2412 MHz, 2437 MHz, 2462 MHz, 2472 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH11, CH 13(High Channel)	2412 MHz, 2437 MHz, 2462 MHz, 2472 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2422 MHz, 2437 MHz, 2462 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH11, CH 13(High Channel)	2412 MHz, 2437 MHz, 2462 MHz, 2472 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2422 MHz, 2437 MHz, 2462 MHz

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5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Software		ADB Command						
Modulation Mode	Transmit Antenna Number	Test Channel						
		NCB: 20MHz				NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 13	CH 3	CH 6	CH 11
802.11b	1	15	17	17	9	/		
802.11g	1	14	16	16	14			
802.11n HT20	1	15	17	16	13			
802.11n HT40	1	/				12	15	15
802.11ax HE20	1	14	16	17	13	/		
802.11ax HE40	1	/				12	13	13

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20 mode: MCS0
802.11n HT40 mode: MCS0
802.11ax HE20 mode: MCS0
802.11ax HE40 mode: MCS0

802.11b/g/n HT20/HT40/ax HE20/HE40 only support SISO mode.

802.11ax only supports full RU.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412 ~ 2472	External Antenna	2

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒1TX,1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒1TX,1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒1TX,1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒1TX,1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒1TX,1RX	Antenna 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒1TX,1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note: The value of the antenna gain was declared by customer.		

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5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

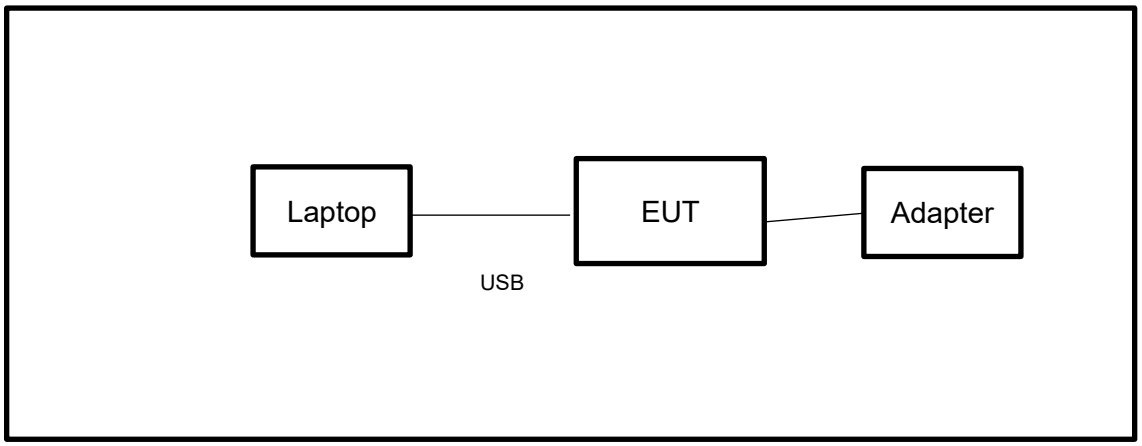
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	POWER ADAPTER	ZETTLER	AP24S1200WP-XS1	Input: AC 100-240V 50/60Hz Output: DC 12V 2A

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS



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6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Dec.27,2024	Dec.26,2025
Vector Signal Generator	R&S	SMBV100A	261637	Sep.28, 2024	Sep.27, 2025
Signal Generator	R&S	SMB100A	178553	Sep.28, 2024	Sep.27, 2025
Signal Analyzer	R&S	FSV40	101118	Sep.28, 2024	Sep.27, 2025
Software					
Description	Manufacturer	Name	Version		
For R&S TS 8997 Test System	Rohde & Schwarz	EMC 32	10.60.10		
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.13, 2024	Sep.12, 2025
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.28, 2024	Sep.27, 2025
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.28, 2024	Sep.27, 2025
DC power supply	Keysight	E3642A	MY55159130	Sep.28, 2024	Sep.27, 2025
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.28, 2024	Sep.27, 2025
Attenuator	Aglient	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.27,2024	Dec.26,2025
Software					
Description	Manufacturer	Name	Version		
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System	V3.2.22		

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Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.28, 2024	Sep.27, 2025
Two-Line V-Network	R&S	ENV216	101983	Sep.28, 2024	Sep.27, 2025
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.28, 2024	Sep.27, 2025
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025
Horn Antenna	TDK	HRN-0118	130940	Dec.10, 2024	Dec.11, 2027
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.28, 2024	Sep.27, 2025
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep.28, 2024	Sep.27, 2025
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.28, 2024	Sep.27, 2025
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.28, 2024	Sep.27, 2025
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.28, 2024	Sep.27, 2025
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

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Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025

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7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

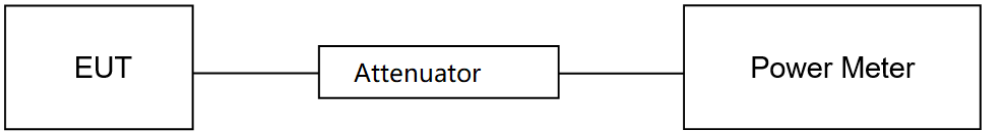
CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).
Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.
The test result in dBm by adding [10 log (1 / D)], where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	21.5℃	Relative Humidity	50.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	June 11, 2025	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix C

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7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: ≥3 × RBW For 99 % Occupied Bandwidth: ≥3 × RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and 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.

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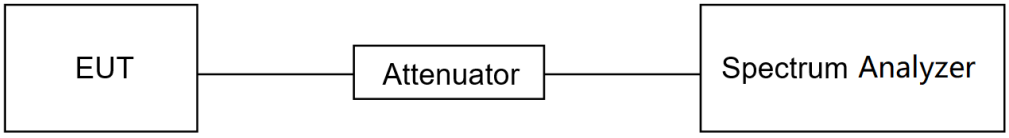
TEST SETUP



TEST ENVIRONMENT

Temperature	21.5℃	Relative Humidity	50.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	June 11, 2025	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

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7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

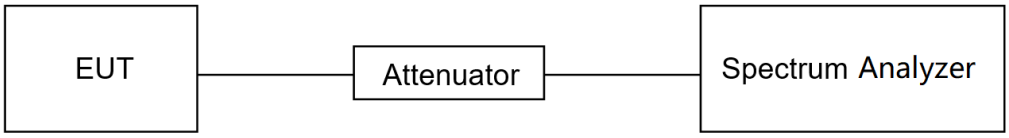
Refer to ANSI C63.10-2013 clause 11.10.5.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	3 kHz ≤ RBW ≤ 100 kHz
VBW	≥3 × RBW
Span	1.5 x OBW bandwidth
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	21.5℃	Relative Humidity	50.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	June 11, 2025	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix D

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7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.
Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD 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.

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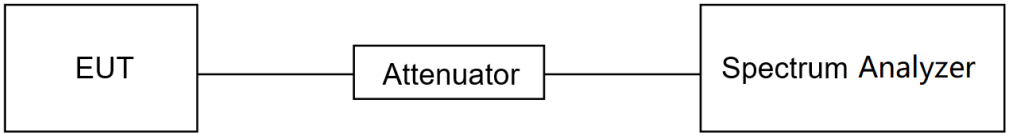
TEST SETUP



TEST ENVIRONMENT

Temperature	21.5℃	Relative Humidity	50.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	June 11, 2025	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix E&F

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7.5. DUTY CYCLE

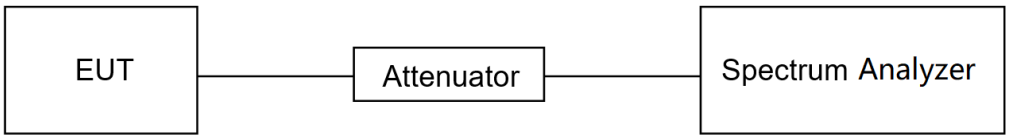
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	21.5℃	Relative Humidity	50.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	June 11, 2025	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix G

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

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FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits 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.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.

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7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

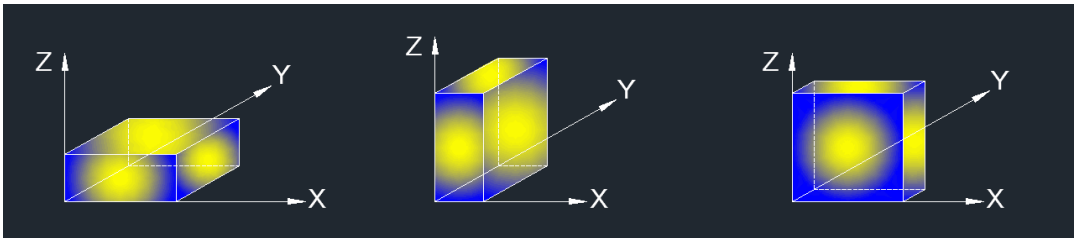
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

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For Restricted Bandedge:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5

For Radiate Spurious Emission (30 MHz ~ 1 GHz):
Note:
1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

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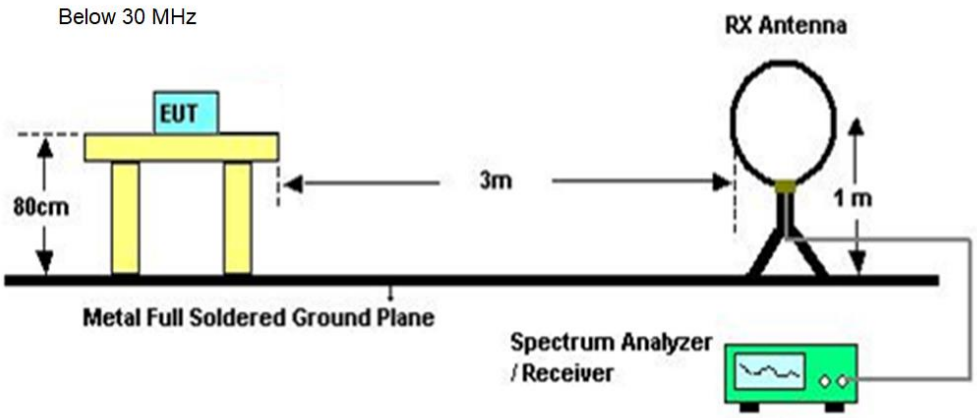
For Radiate Spurious Emission (3 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

TEST SETUP



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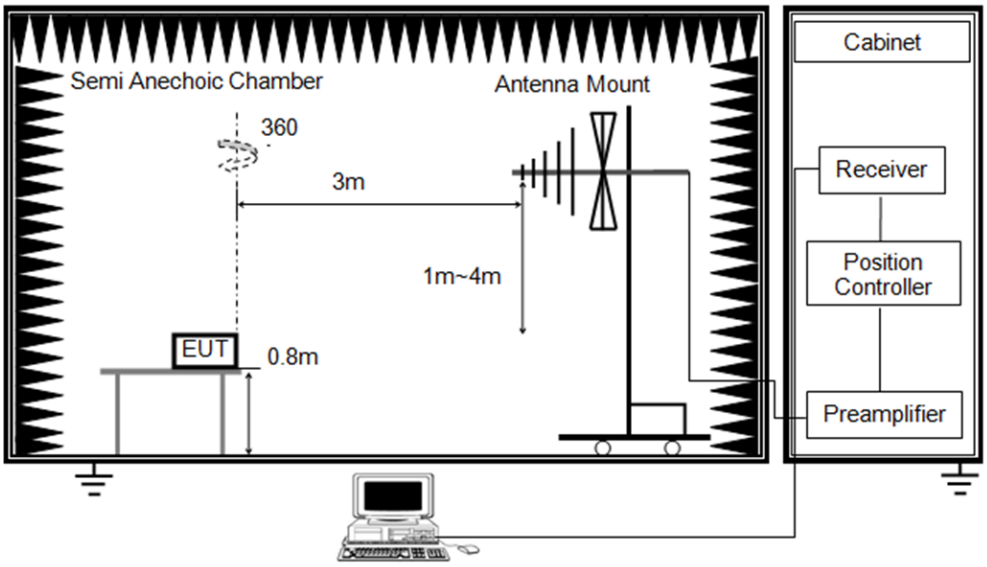
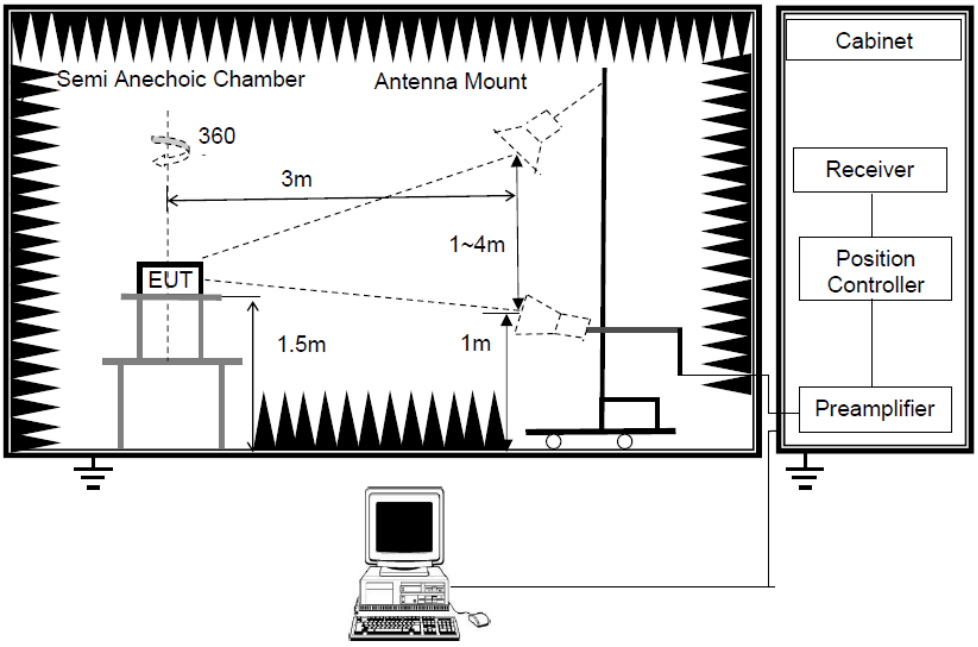
Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	21.6℃	Relative Humidity	58.1%
Atmosphere Pressure	101kPa	Test Voltage	

TEST DATE / ENGINEER

Test Date	June 24, 2025	Test By	Mason Wang

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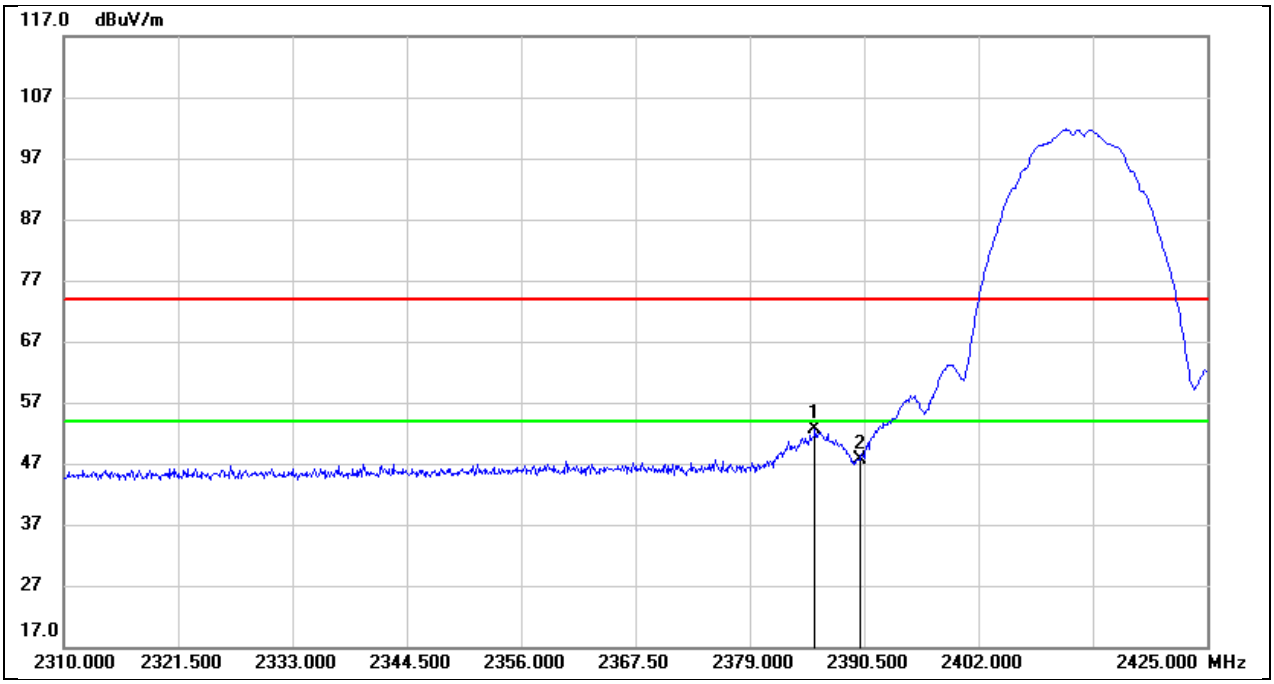
TEST RESULTS

8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.555	21.00	31.67	52.67	74.00	-21.33	peak
2	2390.000	15.99	31.69	47.68	74.00	-26.32	peak

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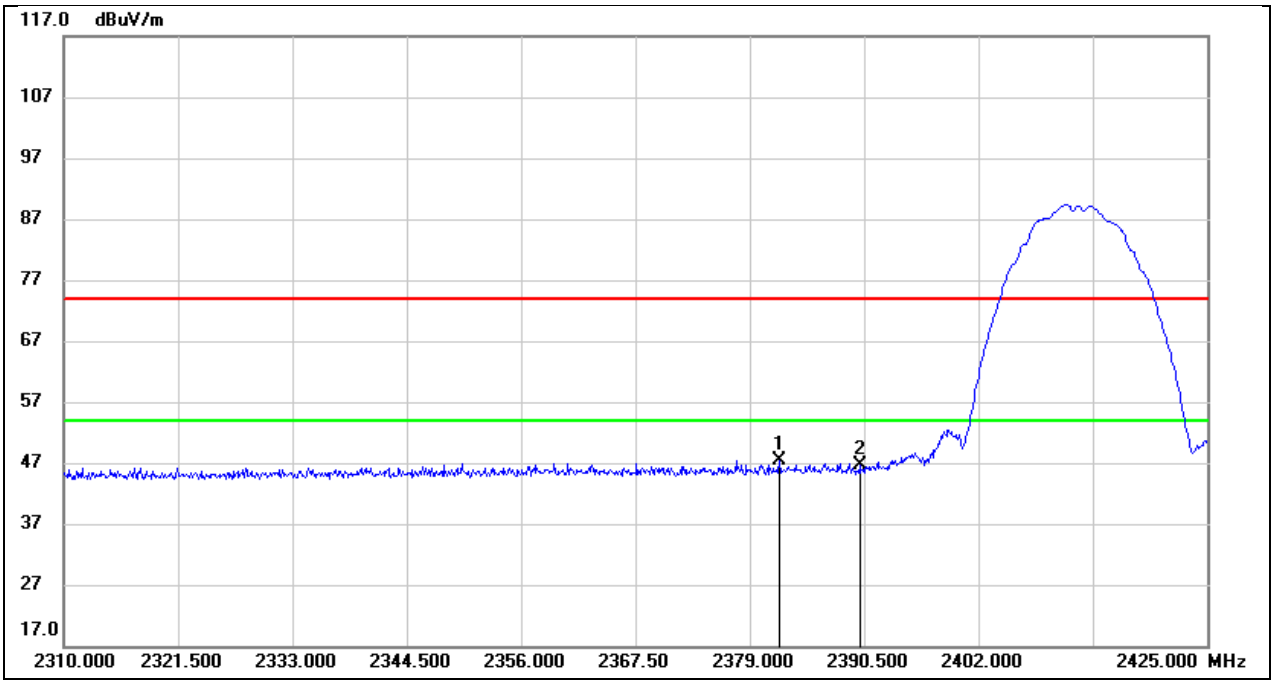
Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2381.990	15.65	31.66	47.31	74.00	-26.69	peak
2	2390.000	14.85	31.69	46.54	74.00	-27.46	peak

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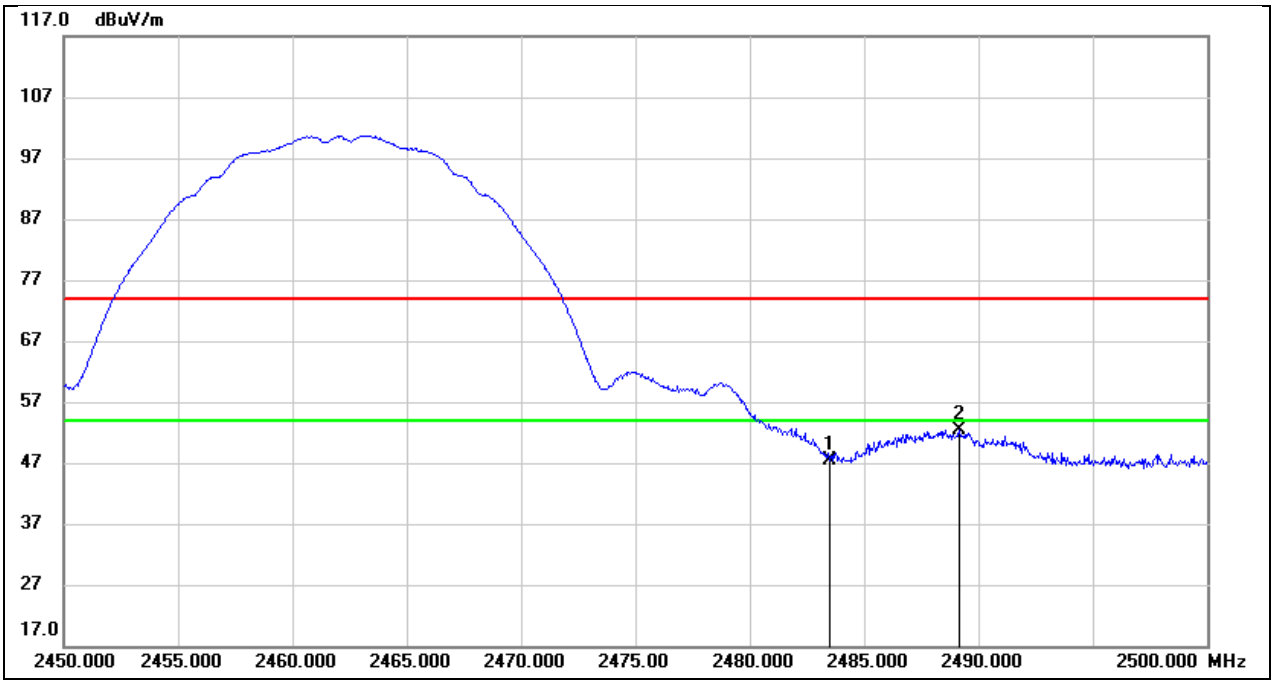
Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.49	31.99	47.48	74.00	-26.52	peak
2	2489.150	20.49	32.00	52.49	74.00	-21.51	peak

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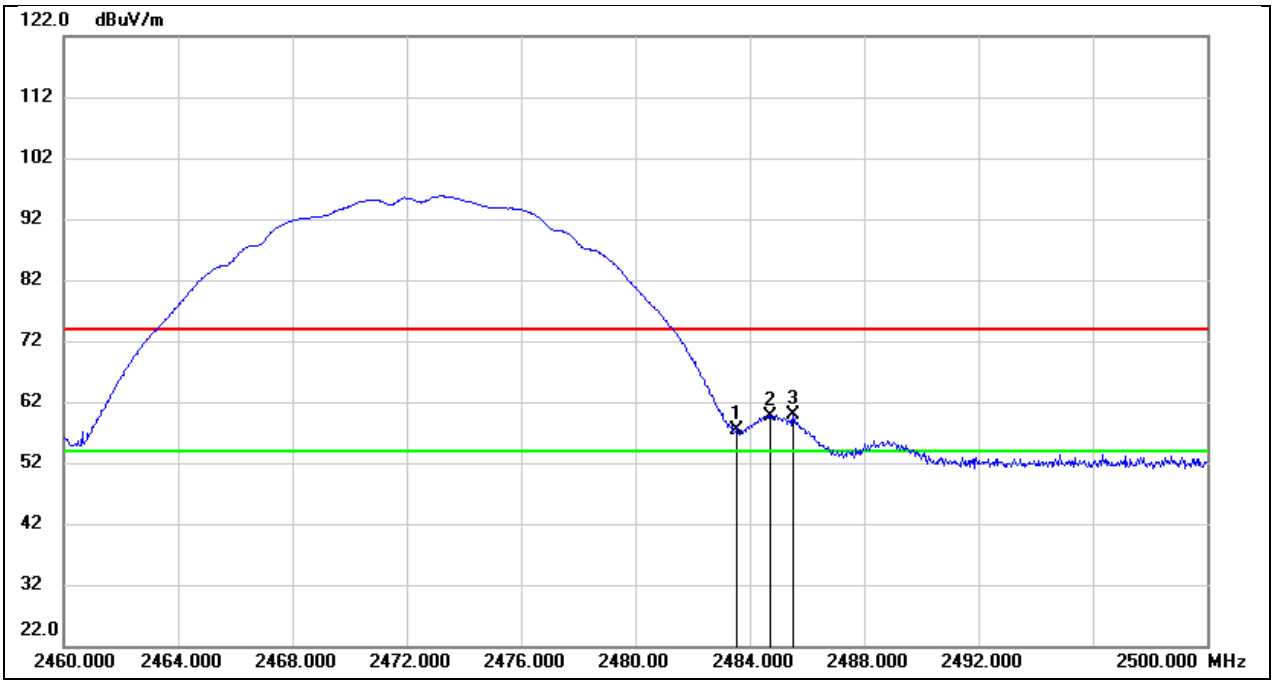
Test Mode:	802.11b PK	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	25.35	31.99	57.34	74.00	-16.66	peak
2	2484.720	27.75	31.99	59.74	74.00	-14.26	peak
3	2485.520	27.97	32.00	59.97	74.00	-14.03	peak

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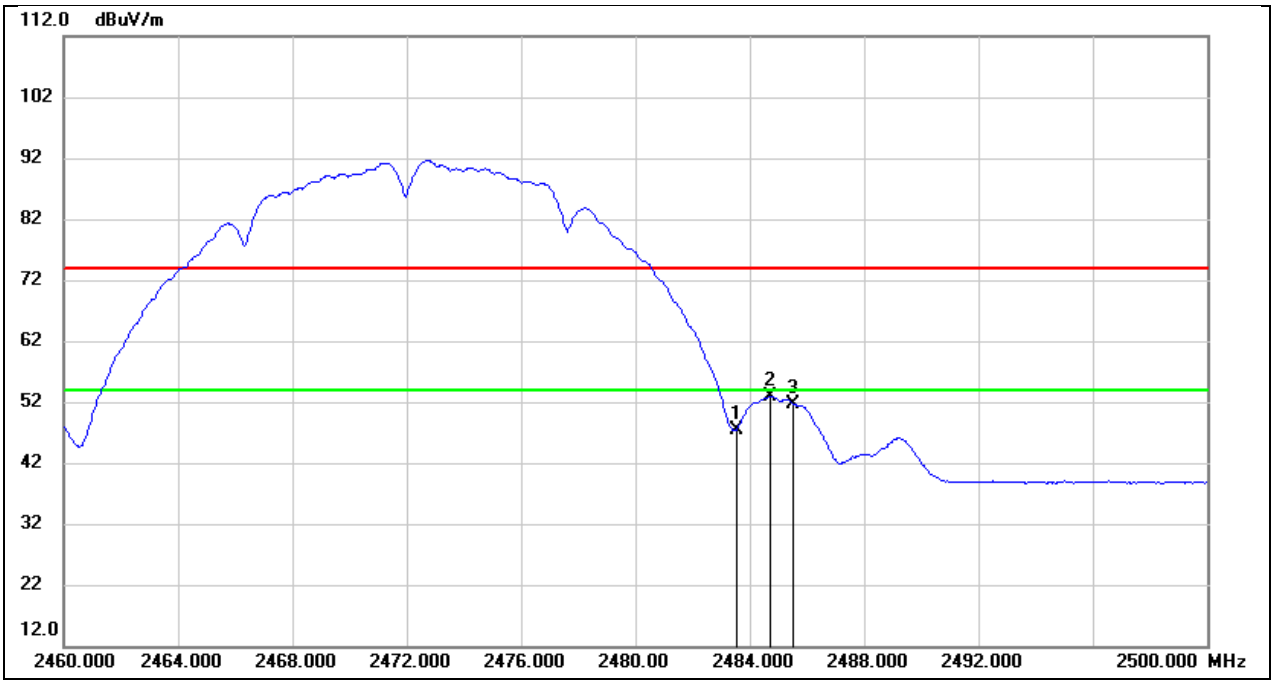
Test Mode:	802.11b AV	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.44	31.99	47.43	54.00	-6.57	AVG
2	2484.720	20.98	31.99	52.97	54.00	-1.03	AVG
3	2485.520	19.67	32.00	51.67	54.00	-2.33	AVG

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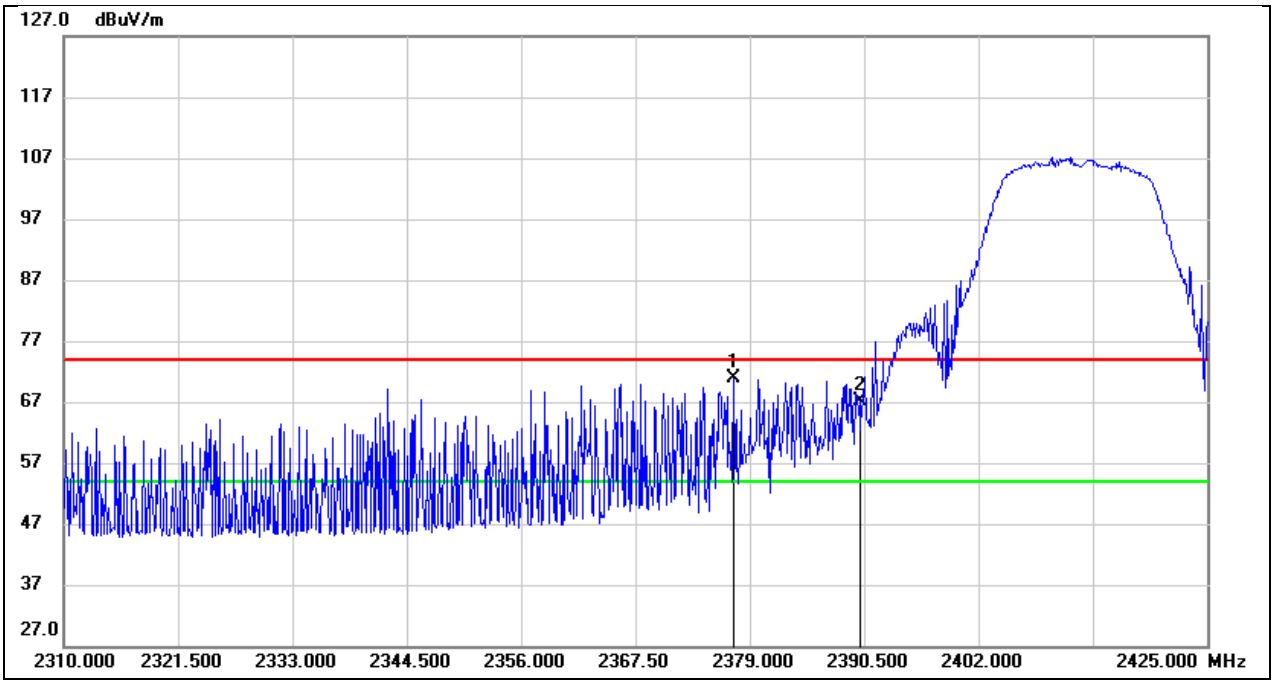
Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2377.390	39.30	31.64	70.94	74.00	-3.06	peak
2	2390.000	35.43	31.69	67.12	74.00	-6.88	peak

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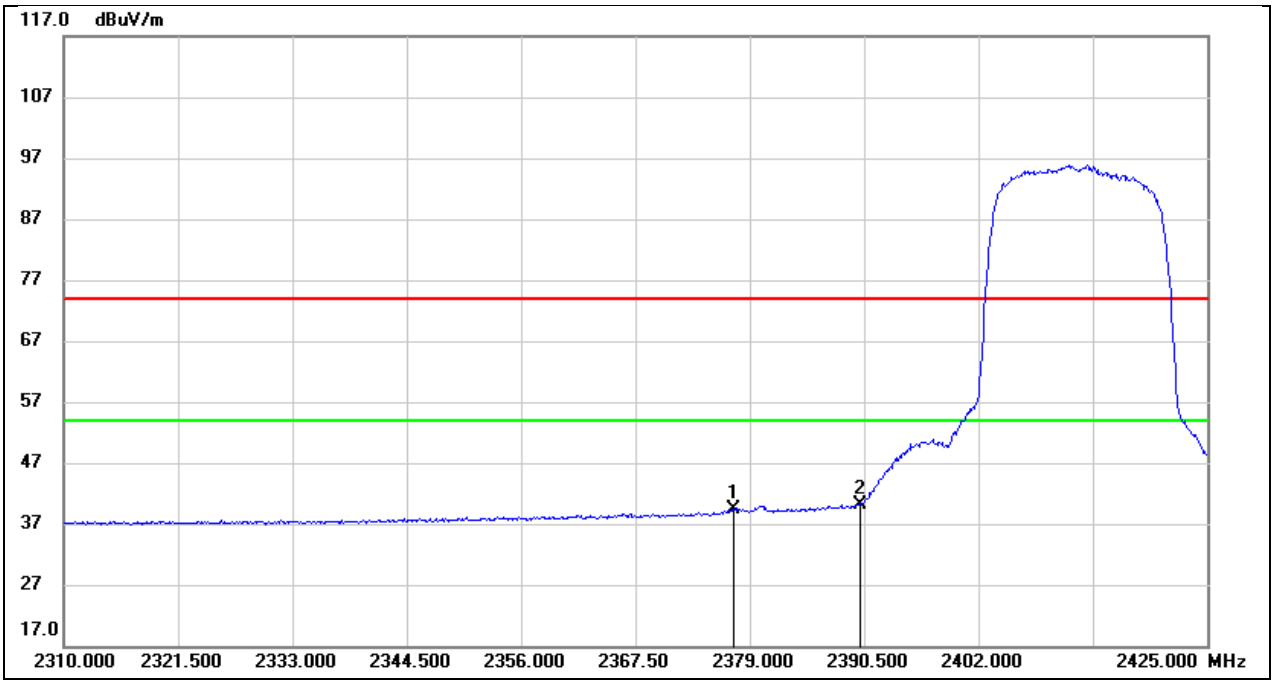
Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2377.390	7.74	31.64	39.38	54.00	-14.62	AVG
2	2390.000	8.42	31.69	40.11	54.00	-13.89	AVG

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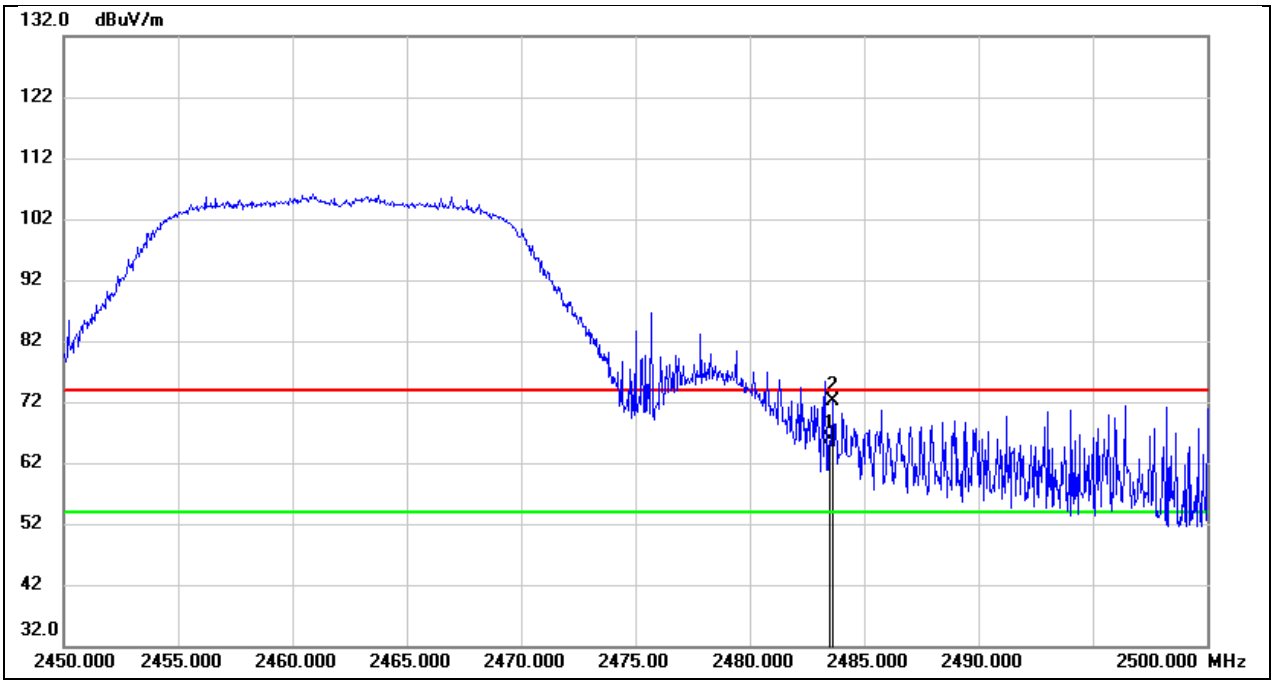
Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	33.77	31.99	65.76	74.00	-8.24	peak
2	2483.650	40.17	31.99	72.16	74.00	-1.84	peak

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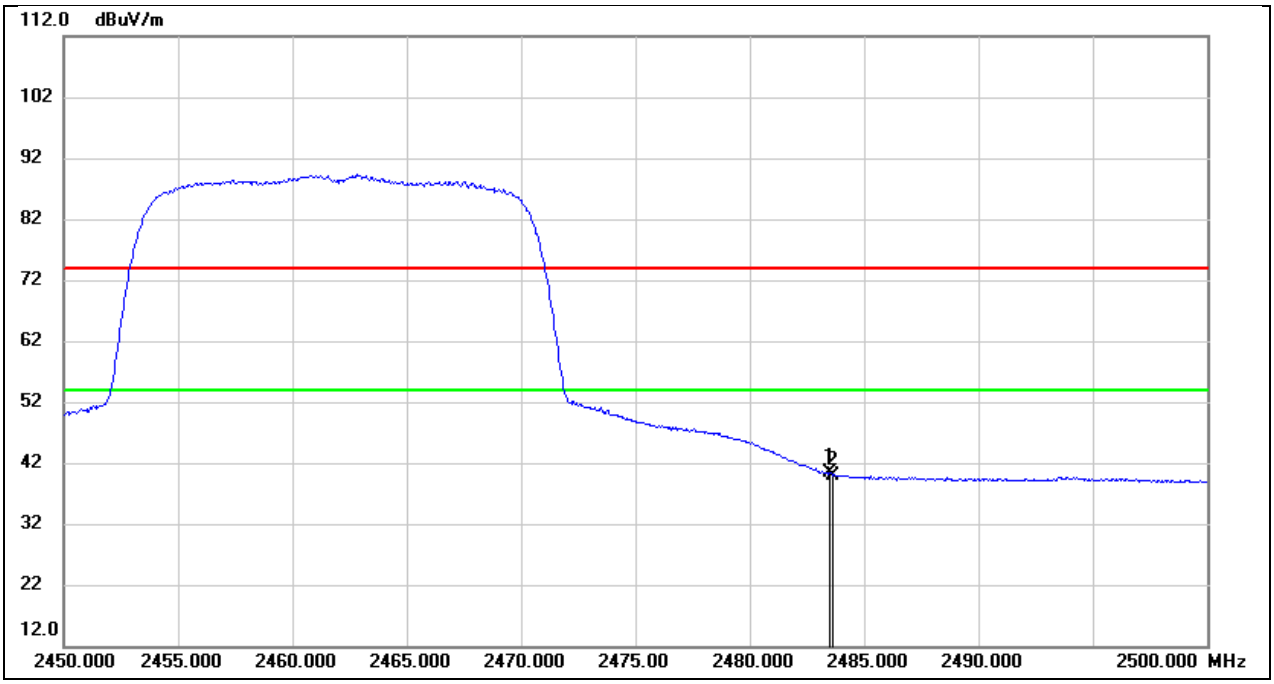
Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	8.32	31.99	40.31	54.00	-13.69	AVG
2	2483.650	8.01	31.99	40.00	54.00	-14.00	AVG

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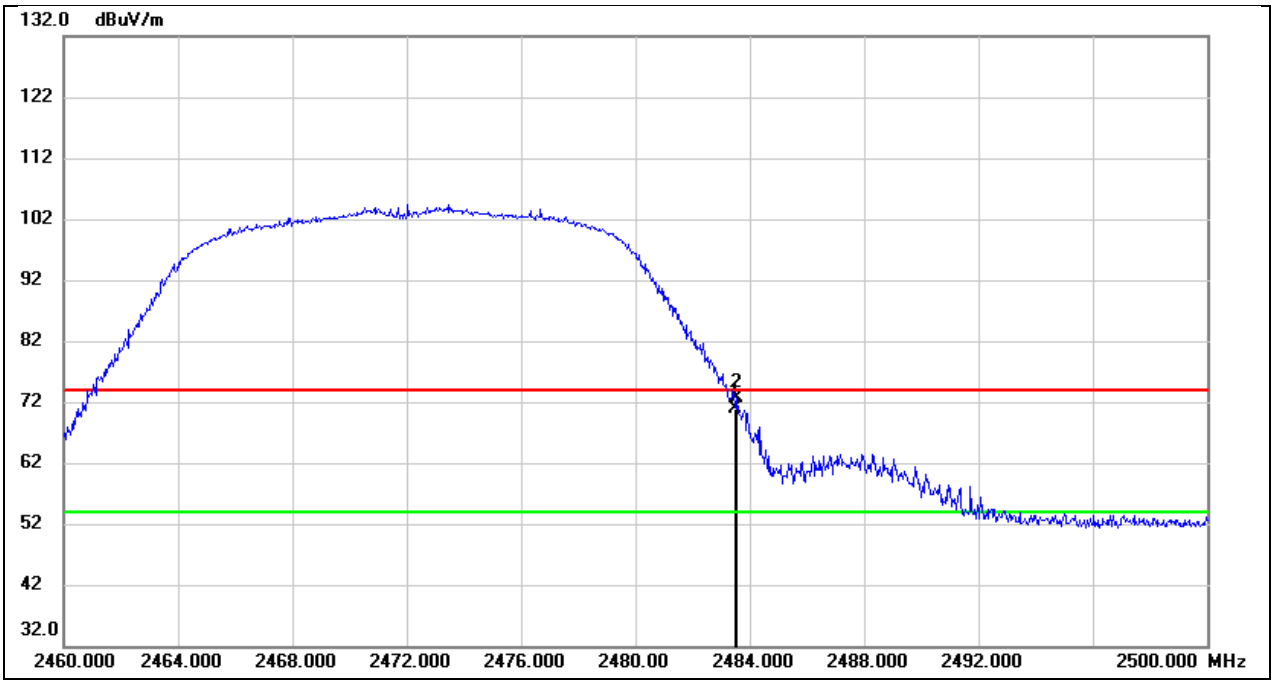
Test Mode:	802.11g PK	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.94	31.99	70.93	74.00	-3.07	peak
2	2483.560	40.74	31.99	72.73	74.00	-1.27	peak

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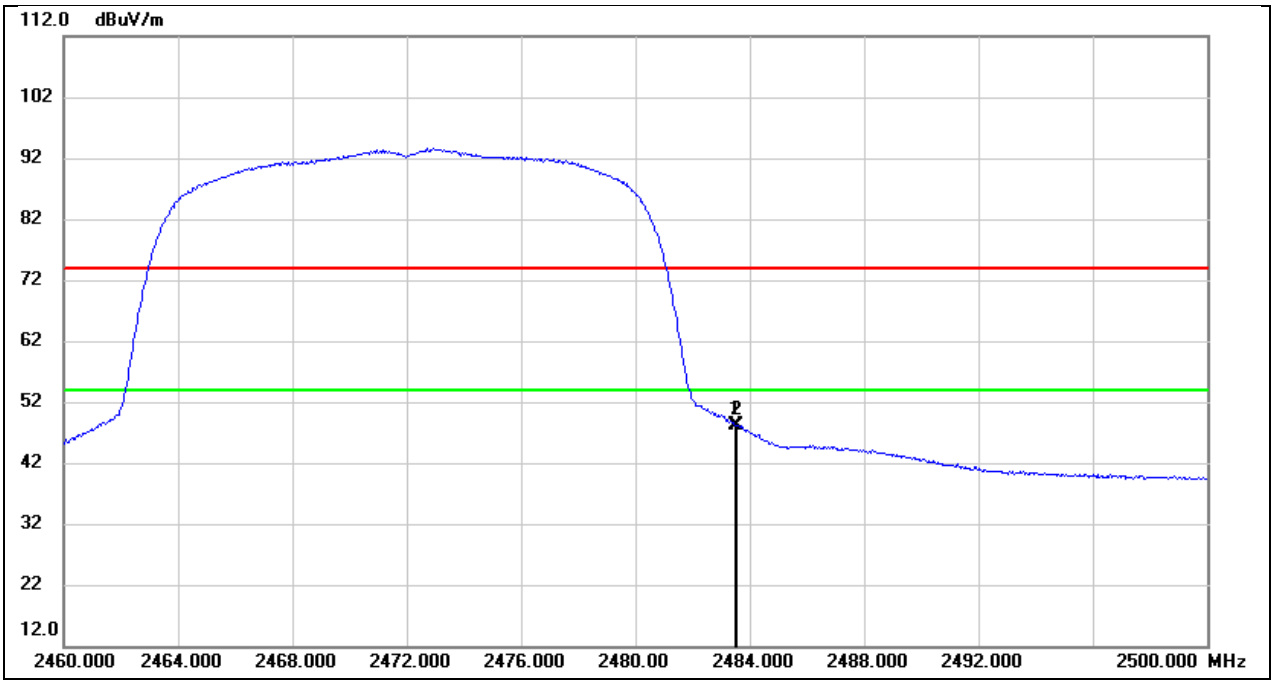
Test Mode:	802.11g AV	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.23	31.99	48.22	54.00	-5.78	AVG
2	2483.560	16.06	31.99	48.05	54.00	-5.95	AVG

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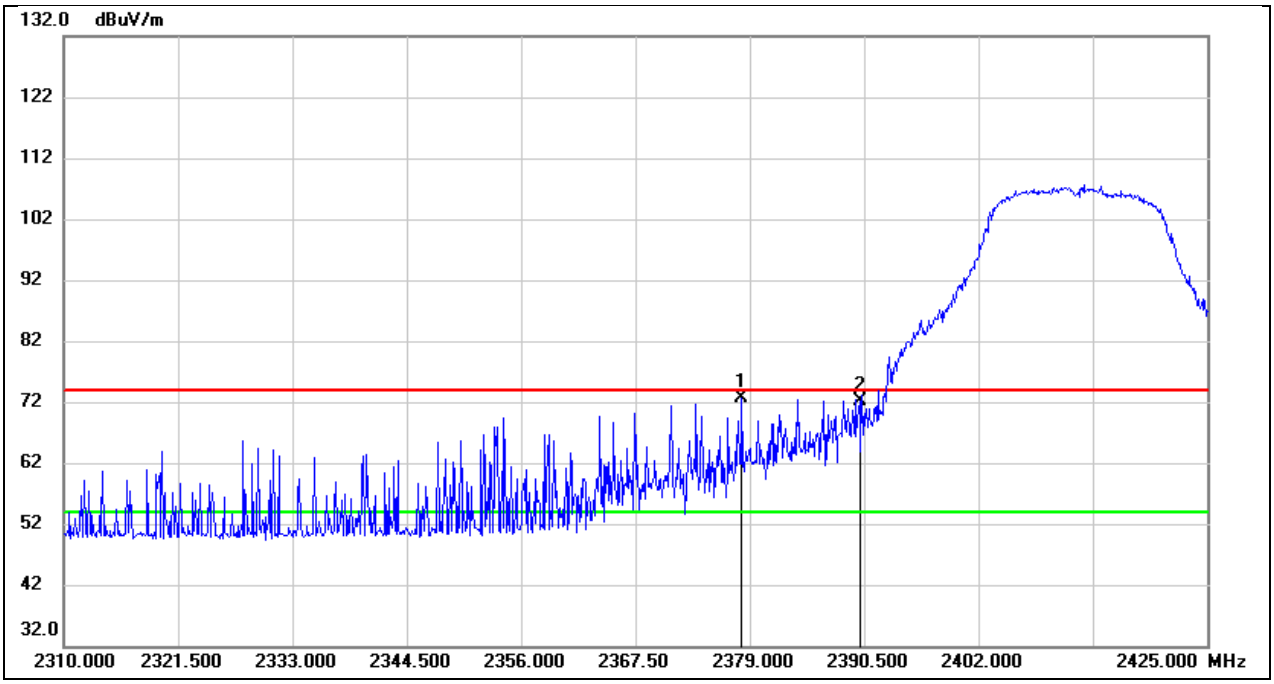
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.195	41.11	31.64	72.75	74.00	-1.25	peak
2	2390.000	40.39	31.69	72.08	74.00	-1.92	peak

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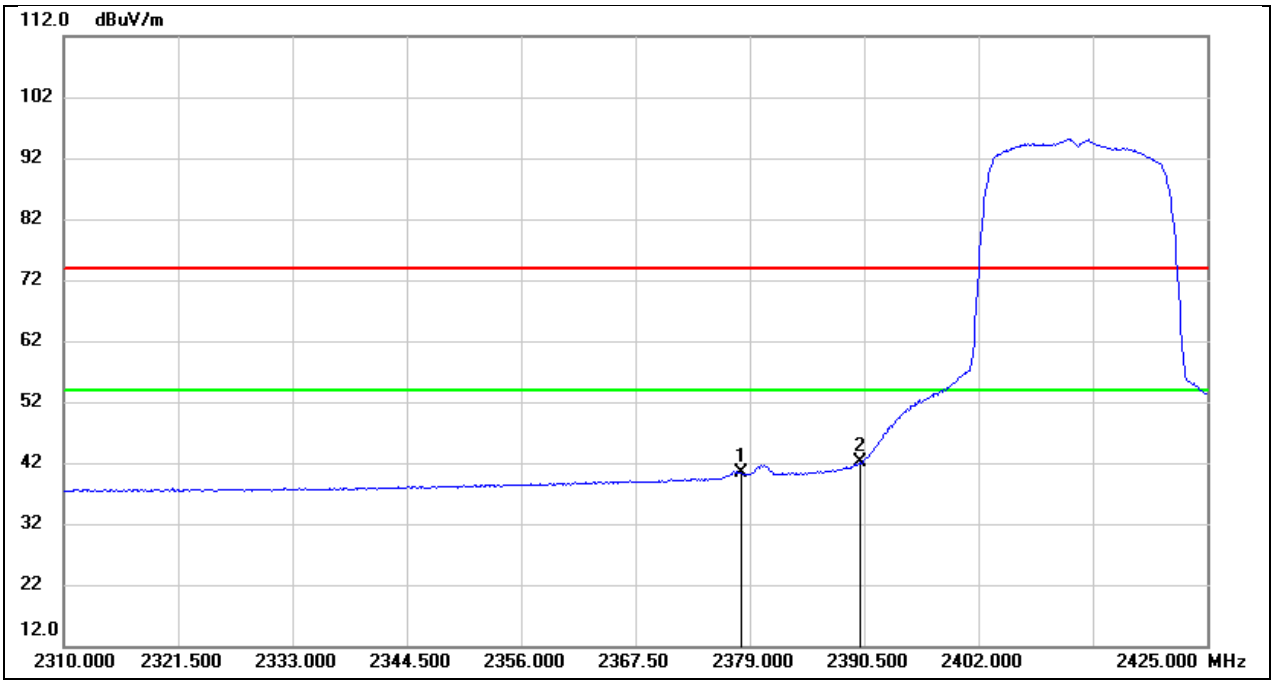
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2378.195	8.66	31.64	40.30	54.00	-13.70	AVG
2	2390.000	10.39	31.69	42.08	54.00	-11.92	AVG

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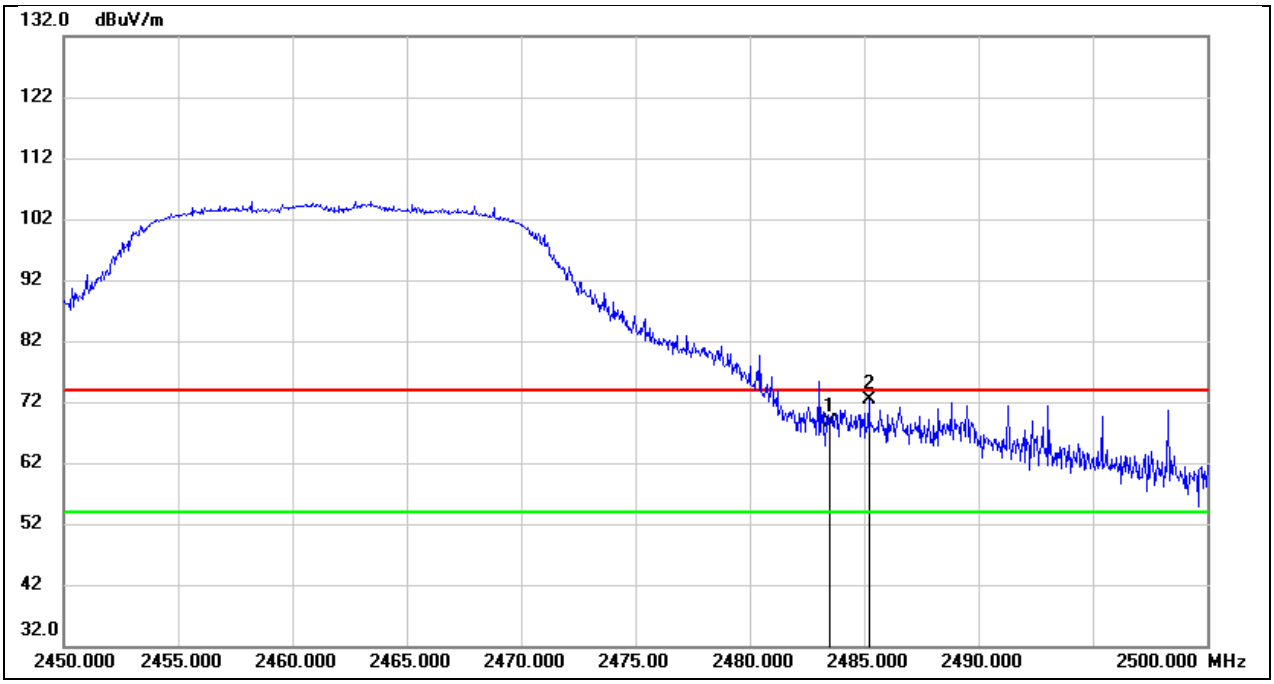
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	36.62	31.99	68.61	74.00	-5.39	peak
2	2485.200	40.27	31.99	72.26	74.00	-1.74	peak

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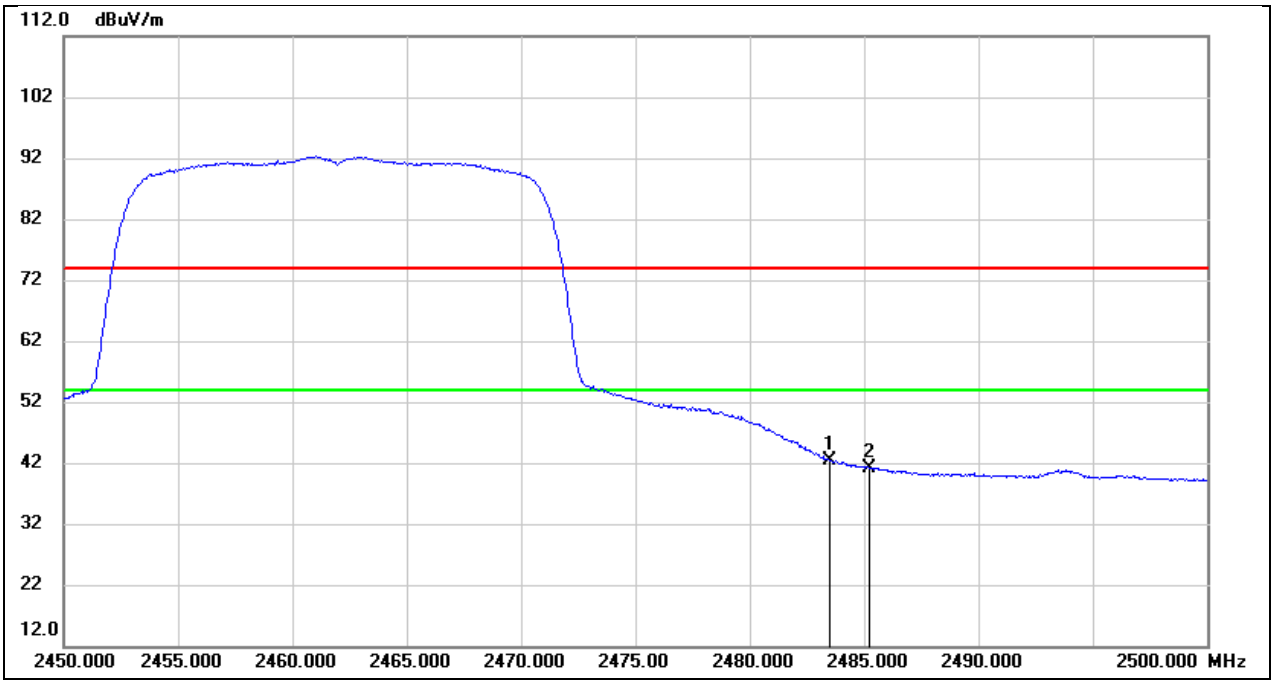
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	10.40	31.99	42.39	54.00	-11.61	AVG
2	2485.200	9.17	31.99	41.16	54.00	-12.84	AVG

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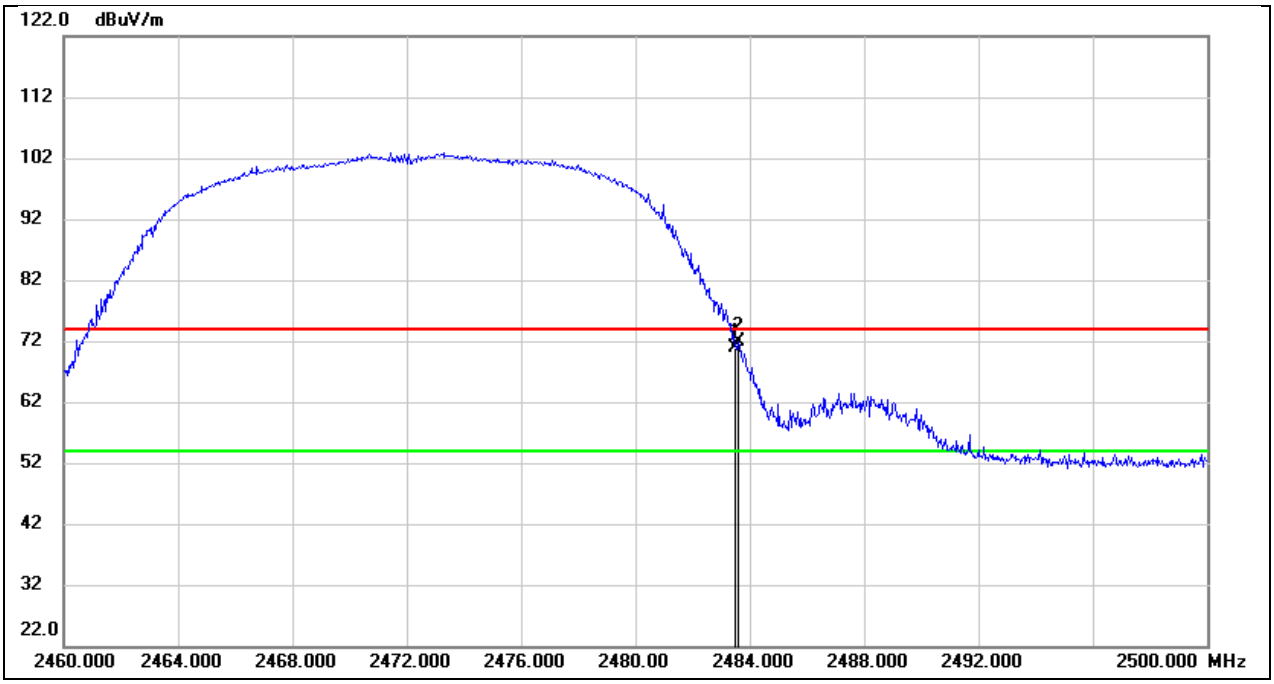
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.87	31.99	70.86	74.00	-3.14	peak
2	2483.600	39.80	31.99	71.79	74.00	-2.21	peak

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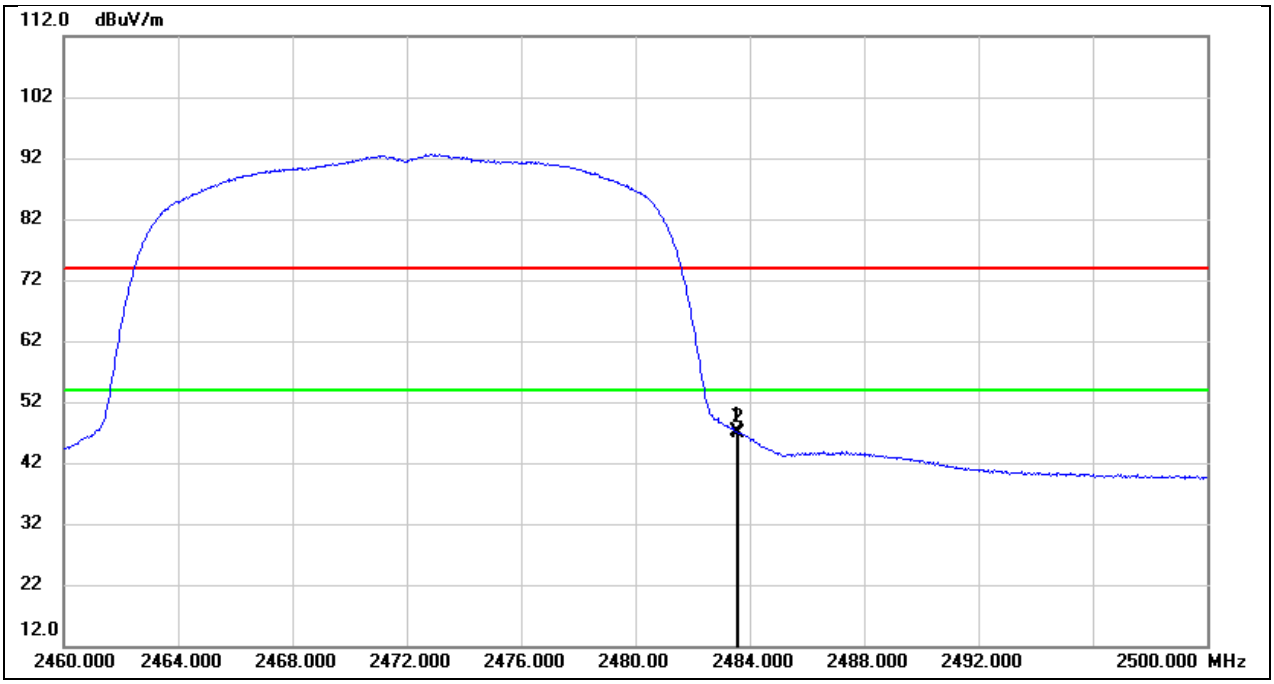
Test Mode:	802.11n HT20 AV	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.23	31.99	47.22	54.00	-6.78	AVG
2	2483.600	15.00	31.99	46.99	54.00	-7.01	AVG

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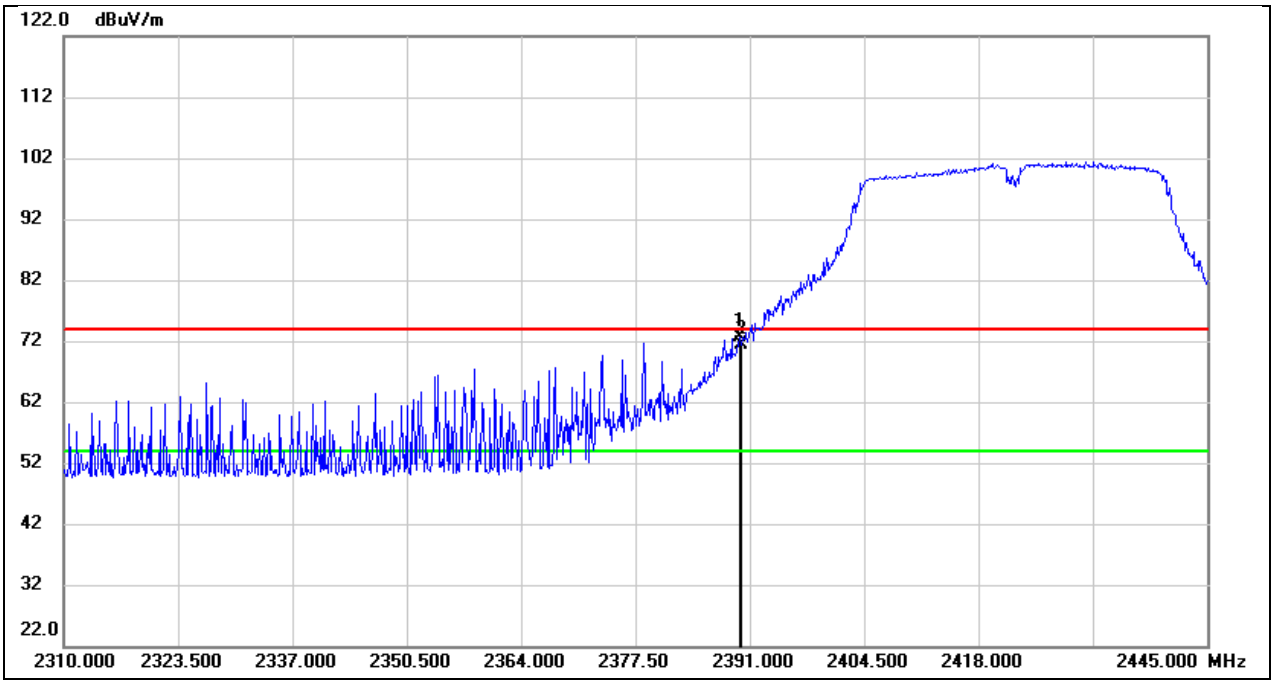
Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.785	40.94	31.69	72.63	74.00	-1.37	peak
2	2390.000	39.72	31.69	71.41	74.00	-2.59	peak

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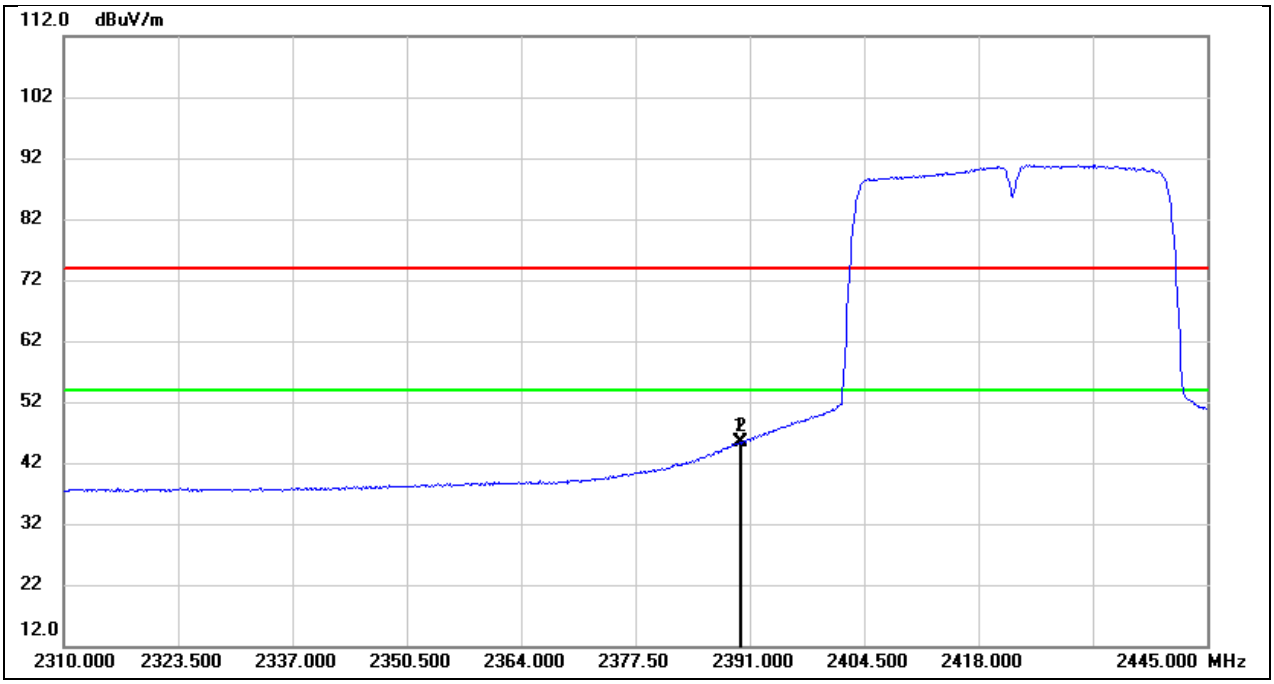
Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.785	13.59	31.69	45.28	54.00	-8.72	AVG
2	2390.000	13.59	31.69	45.28	54.00	-8.72	AVG

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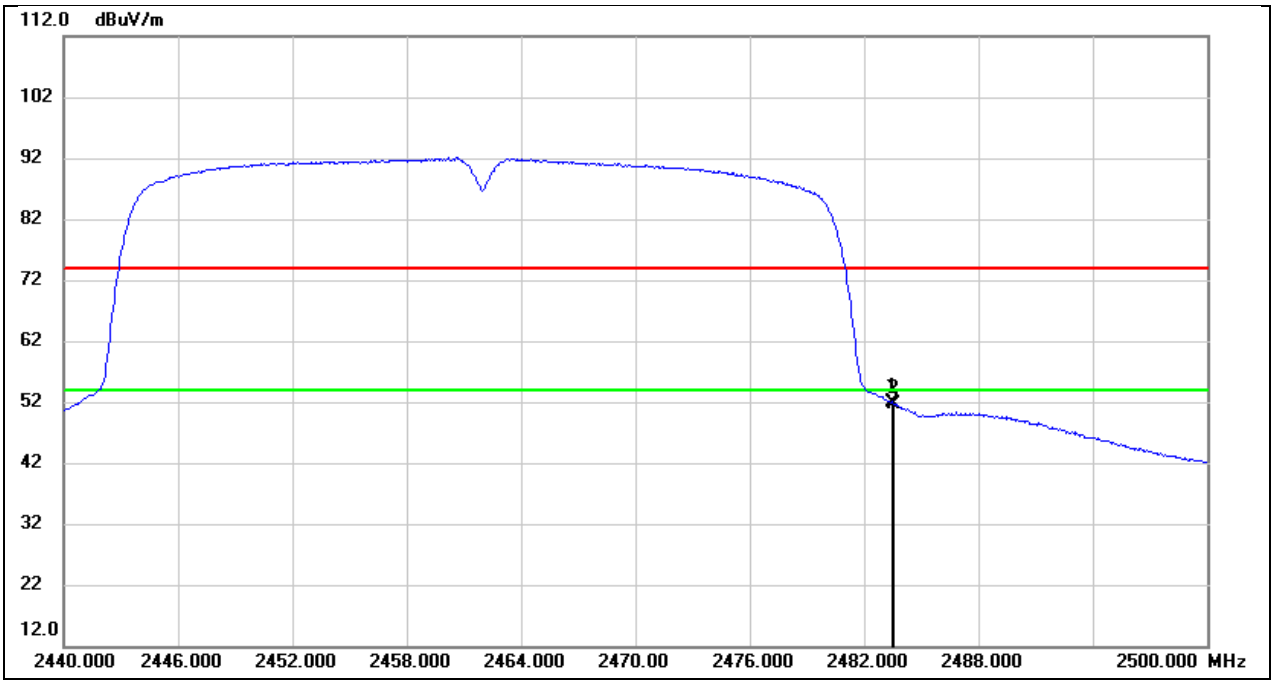
Test Mode:	802.11n HT40 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.79	31.99	51.78	54.00	-2.22	AVG
2	2483.560	19.68	31.99	51.67	54.00	-2.33	AVG

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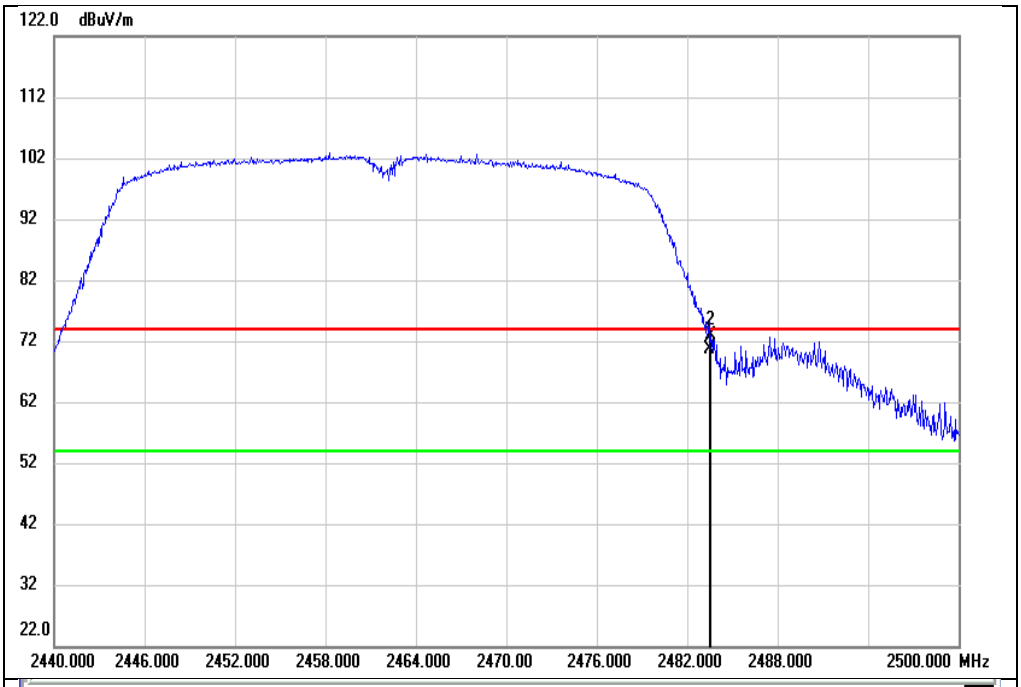
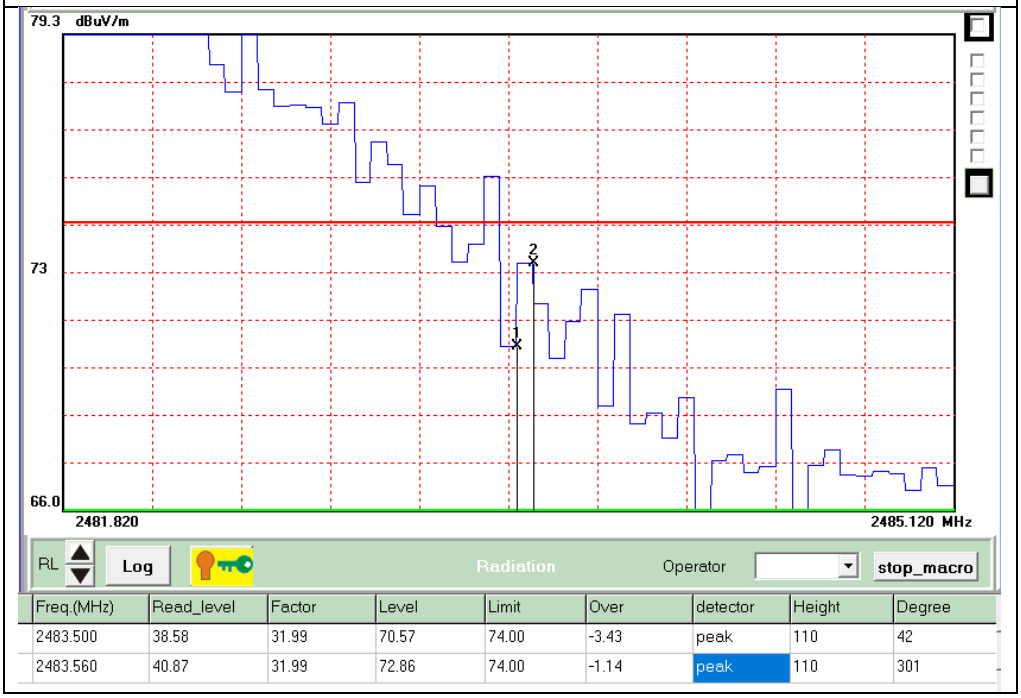
Test Mode:	802.11n HT40 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V





No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.58	31.99	70.57	74.00	-3.43	peak
2	2483.560	40.87	31.99	72.86	74.00	-1.14	peak

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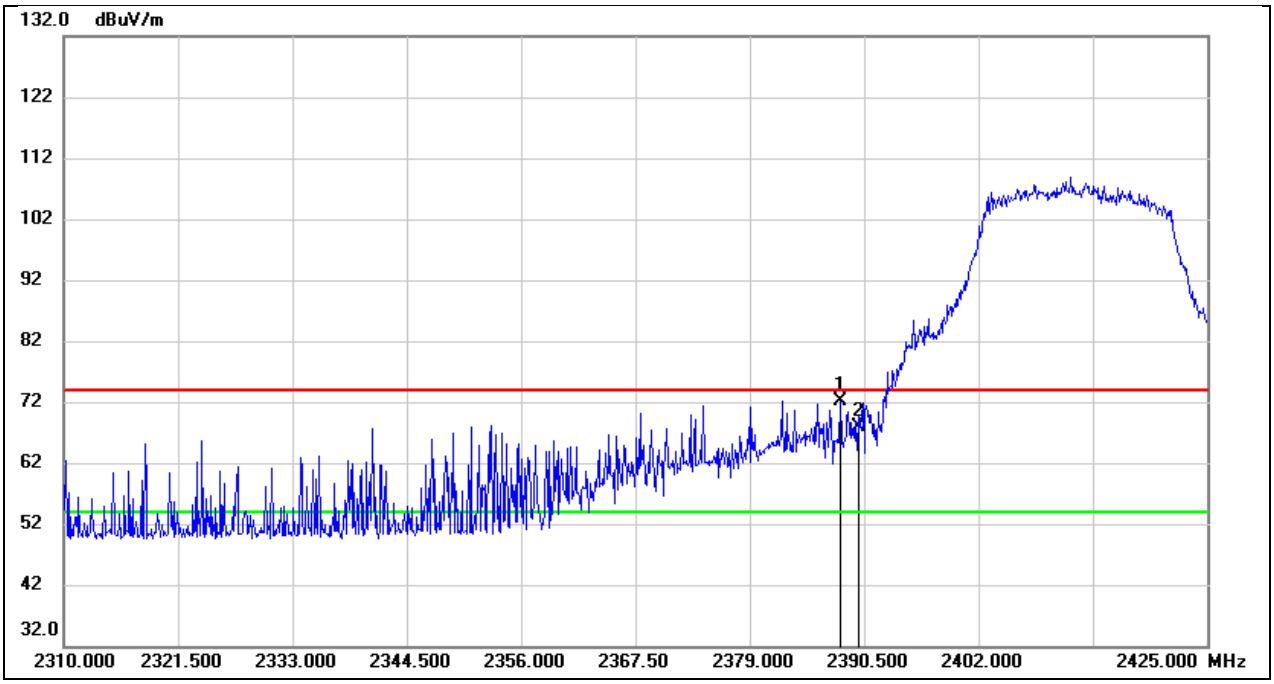
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.085	40.52	31.68	72.20	74.00	-1.80	peak
2	2390.000	36.15	31.69	67.84	74.00	-6.16	peak

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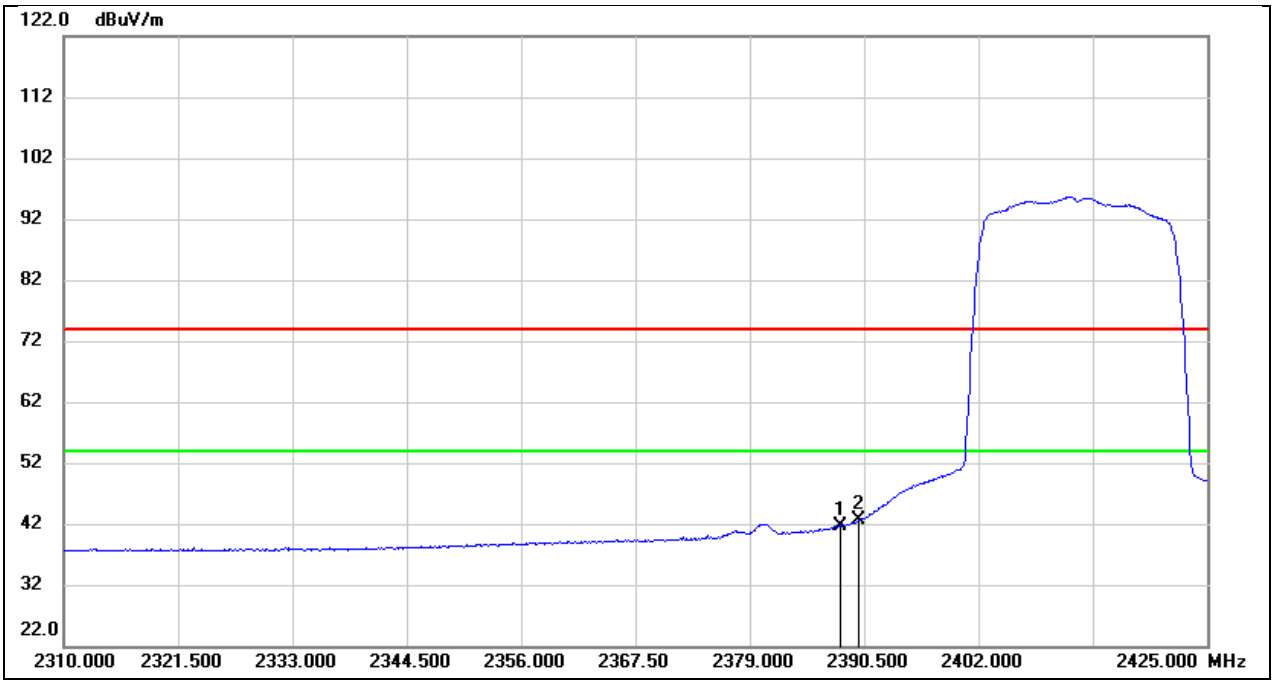
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.085	9.89	31.68	41.57	54.00	-12.43	AVG
2	2390.000	10.82	31.69	42.51	54.00	-11.49	AVG

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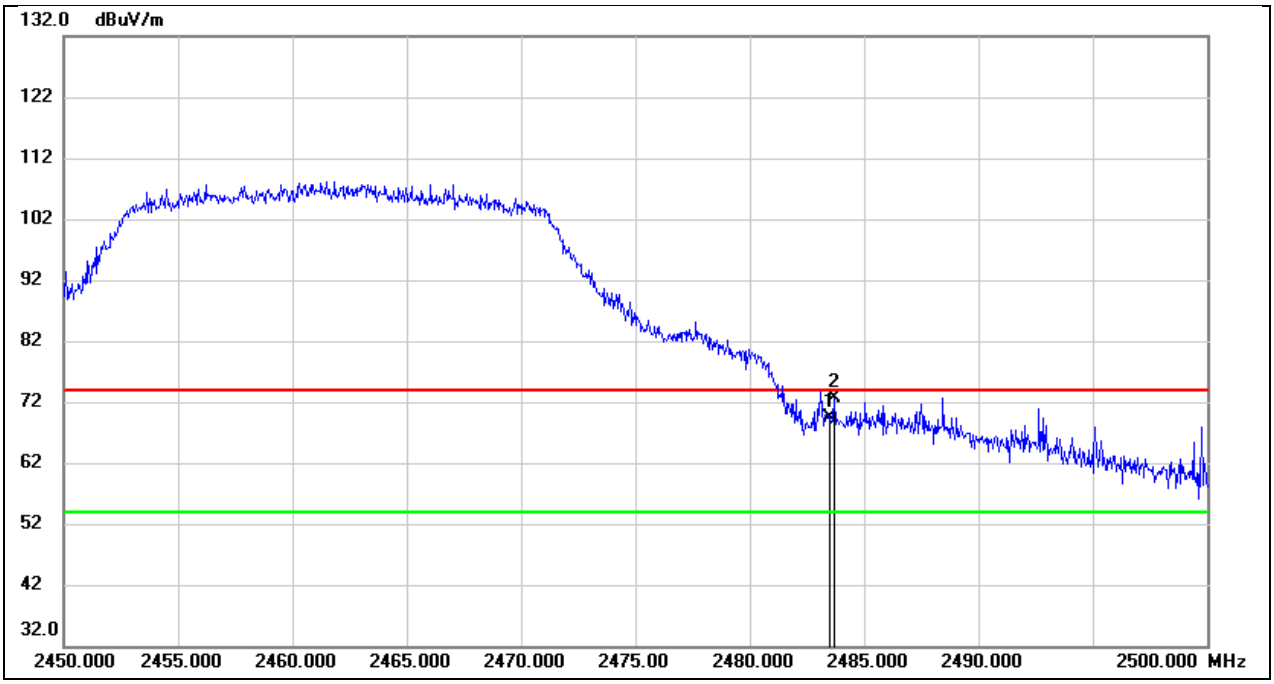
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	37.38	31.99	69.37	74.00	-4.63	peak
2	2483.700	40.67	31.99	72.66	74.00	-1.34	peak

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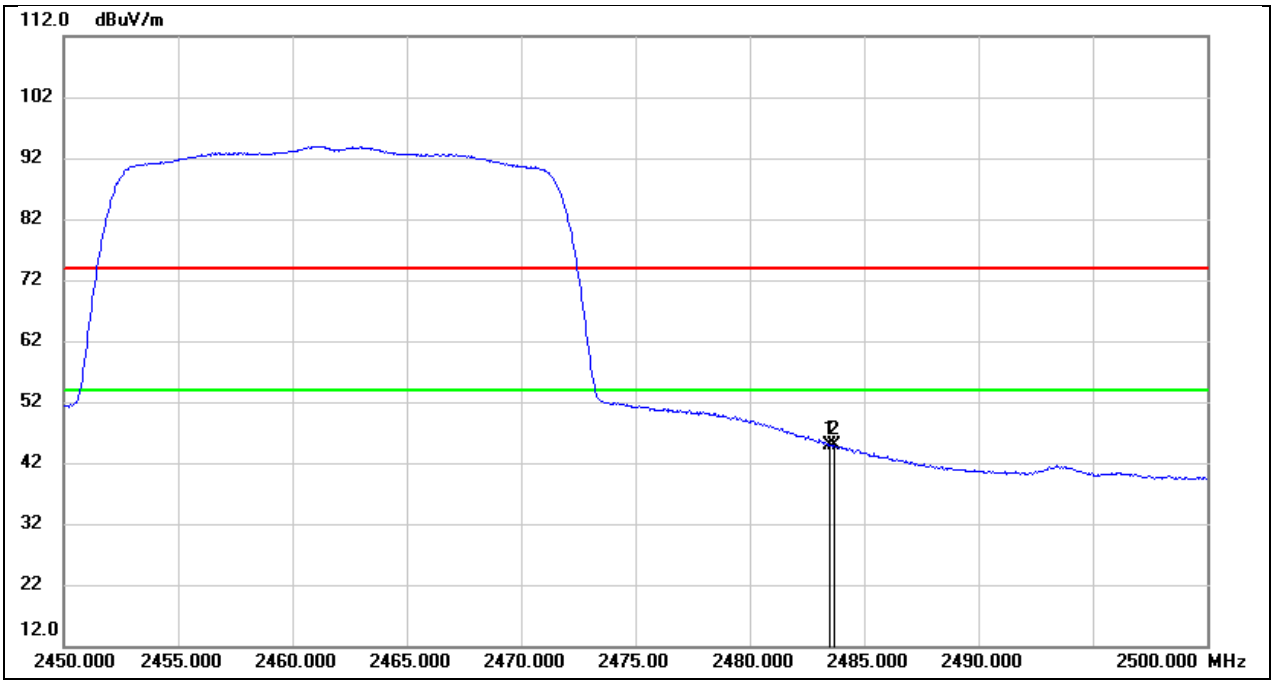
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	12.98	31.99	44.97	54.00	-9.03	AVG
2	2483.700	12.78	31.99	44.77	54.00	-9.23	AVG

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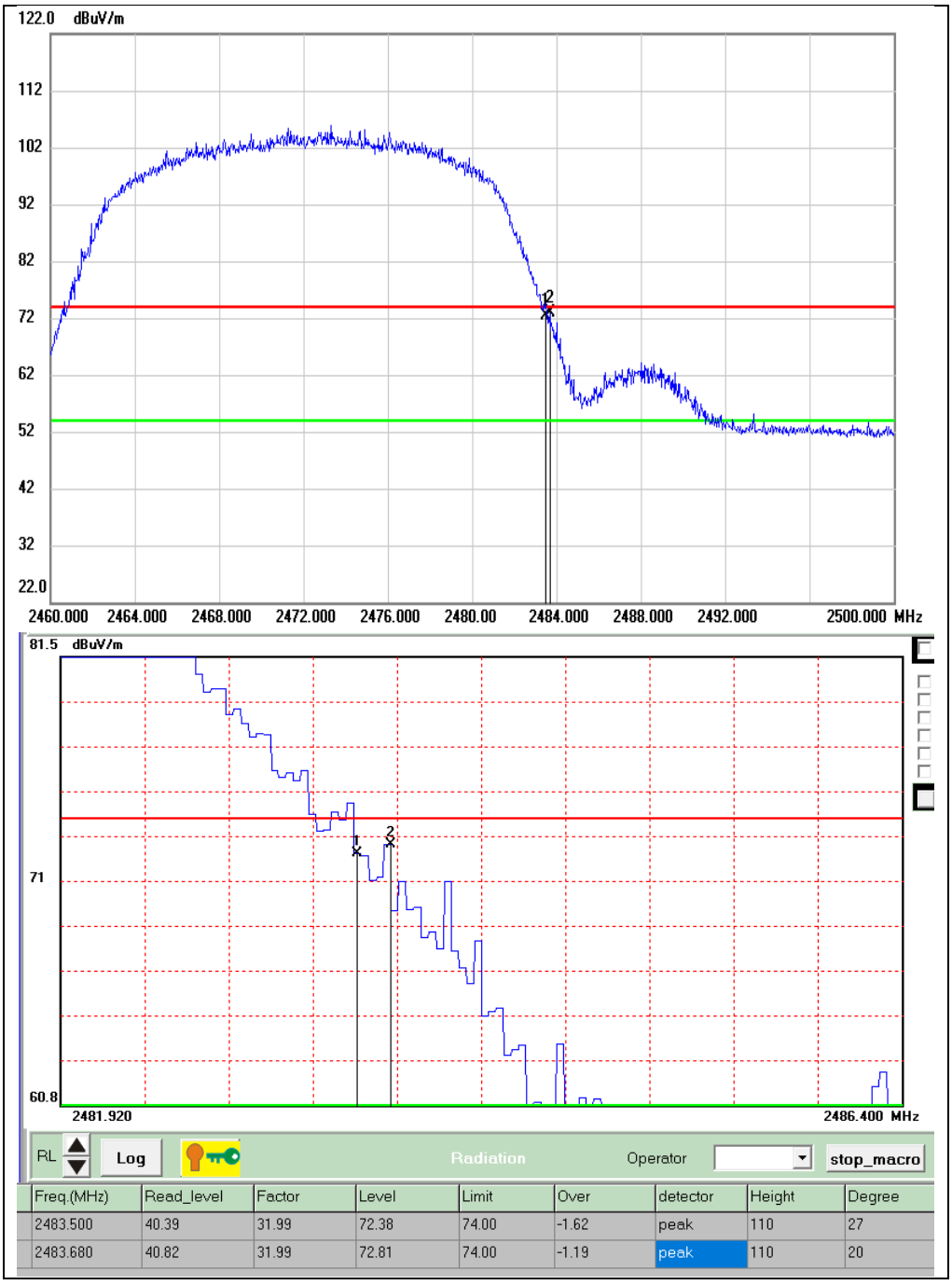
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	40.39	31.99	72.38	74.00	-1.62	peak
2	2483.680	40.82	31.99	72.81	74.00	-1.19	peak

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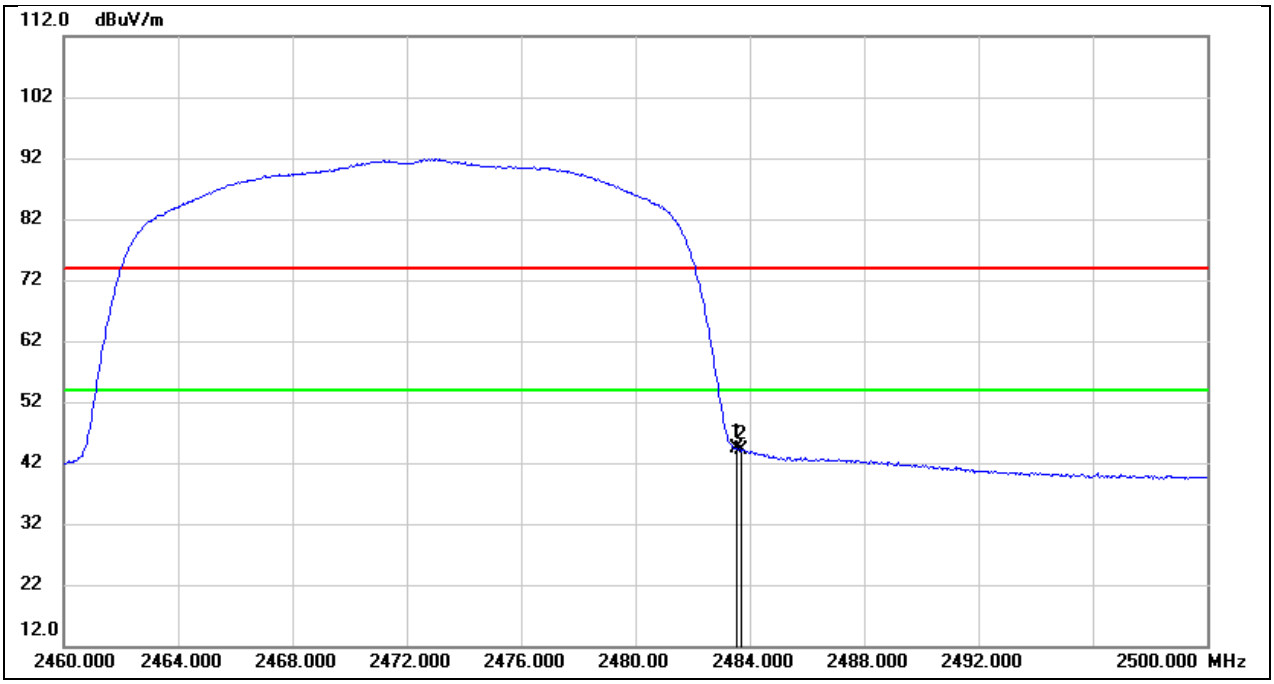
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	12.45	31.99	44.44	54.00	-9.56	AVG
2	2483.680	12.15	31.99	44.14	54.00	-9.86	AVG

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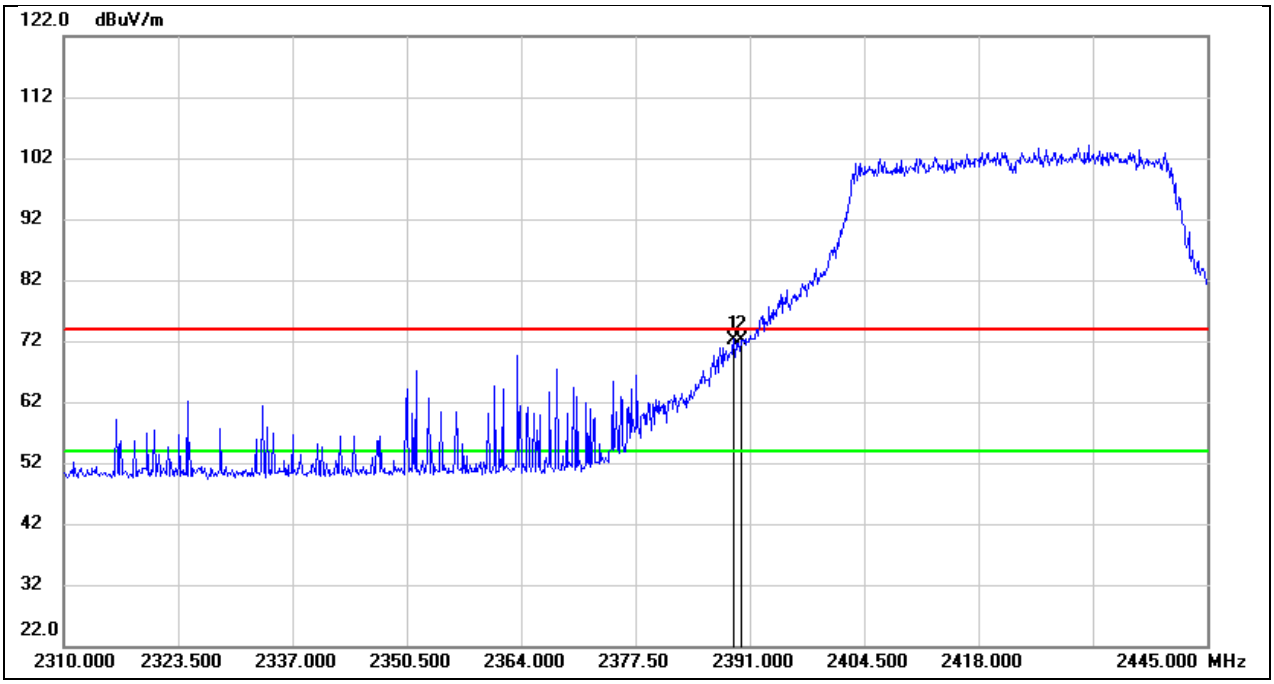
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.110	40.57	31.68	72.25	74.00	-1.75	peak
2	2390.000	40.33	31.69	72.02	74.00	-1.98	peak

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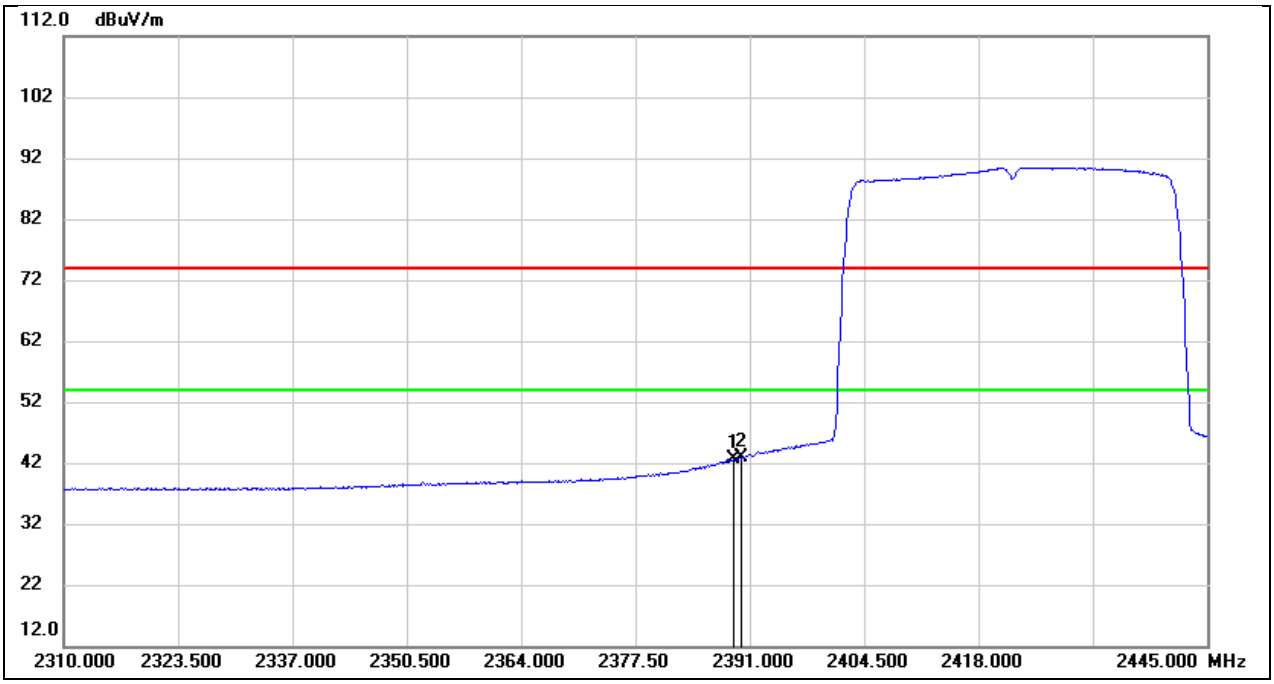
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.110	11.07	31.68	42.75	54.00	-11.25	AVG
2	2390.000	11.12	31.69	42.81	54.00	-11.19	AVG

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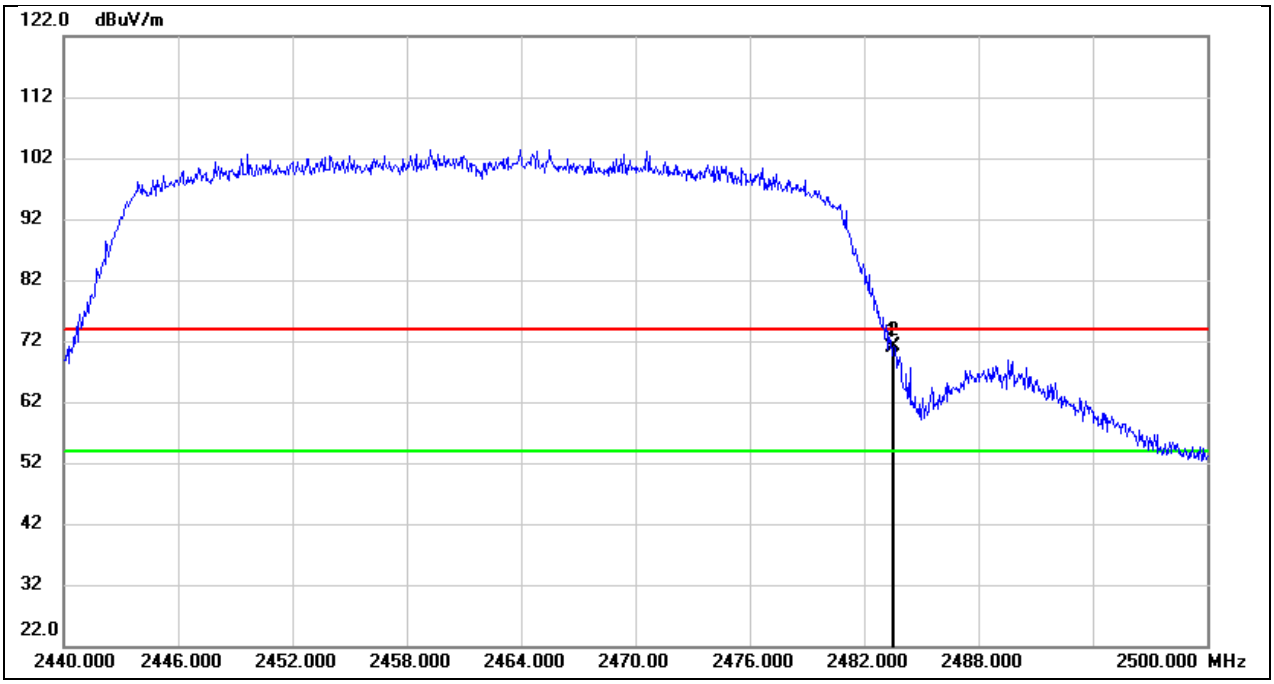
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.89	31.99	70.88	74.00	-3.12	peak
2	2483.560	39.16	31.99	71.15	74.00	-2.85	peak

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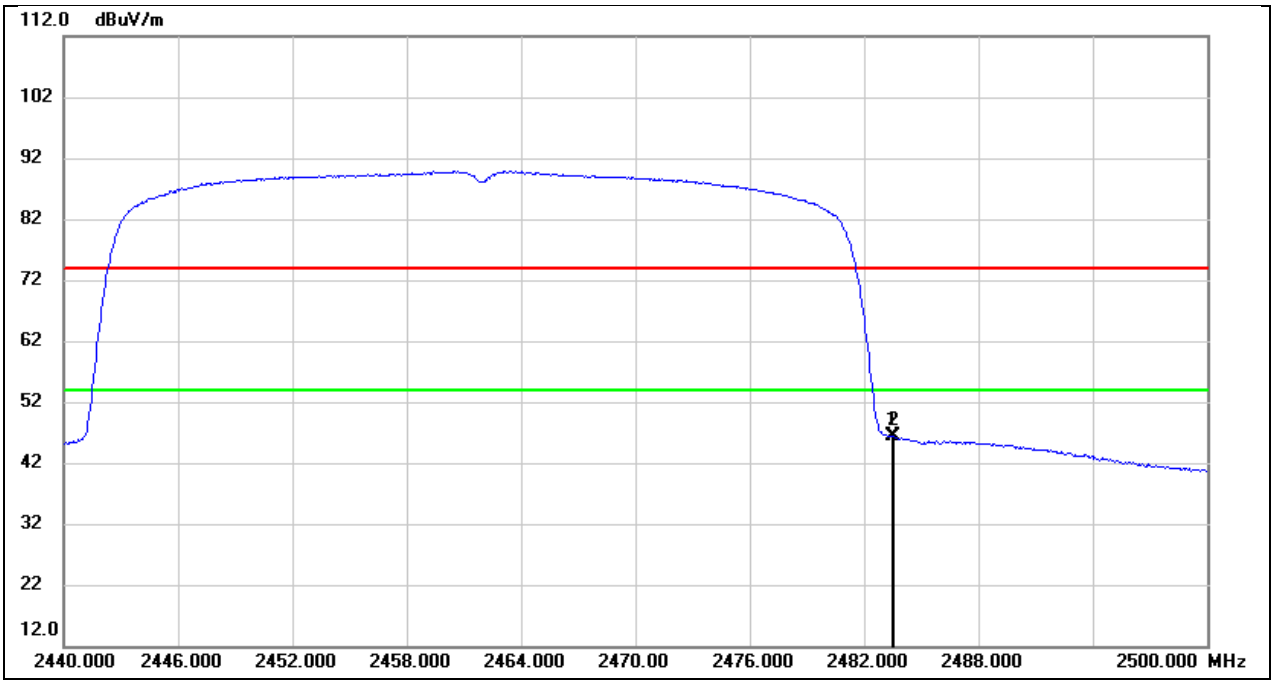
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.46	31.99	46.45	54.00	-7.55	AVG
2	2483.560	14.31	31.99	46.30	54.00	-7.70	AVG

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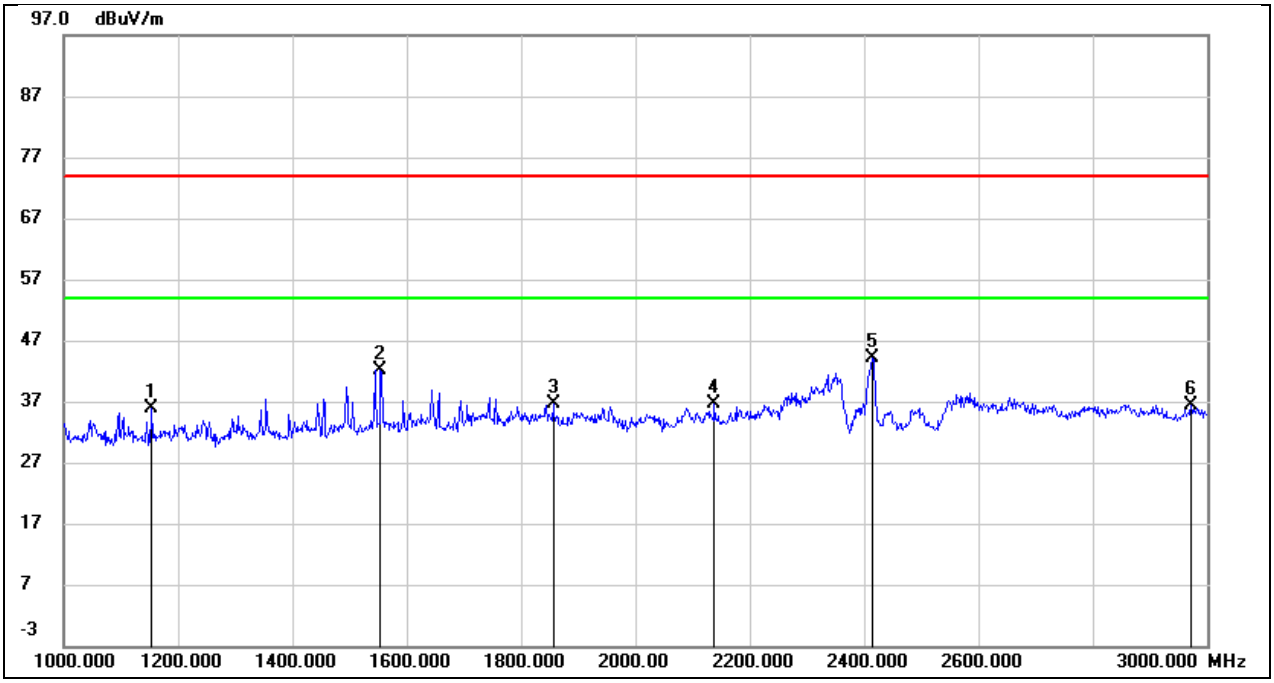
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1154.000	49.59	-13.63	35.96	74.00	-38.04	peak
2	1554.000	53.82	-11.63	42.19	74.00	-31.81	peak
3	1856.000	46.88	-10.14	36.74	74.00	-37.26	peak
4	2138.000	46.30	-9.72	36.58	74.00	-37.42	peak
5	2412.000	52.75	-8.57	44.18	/	/	Fundamental
6	2972.000	42.82	-6.33	36.49	74.00	-37.51	peak

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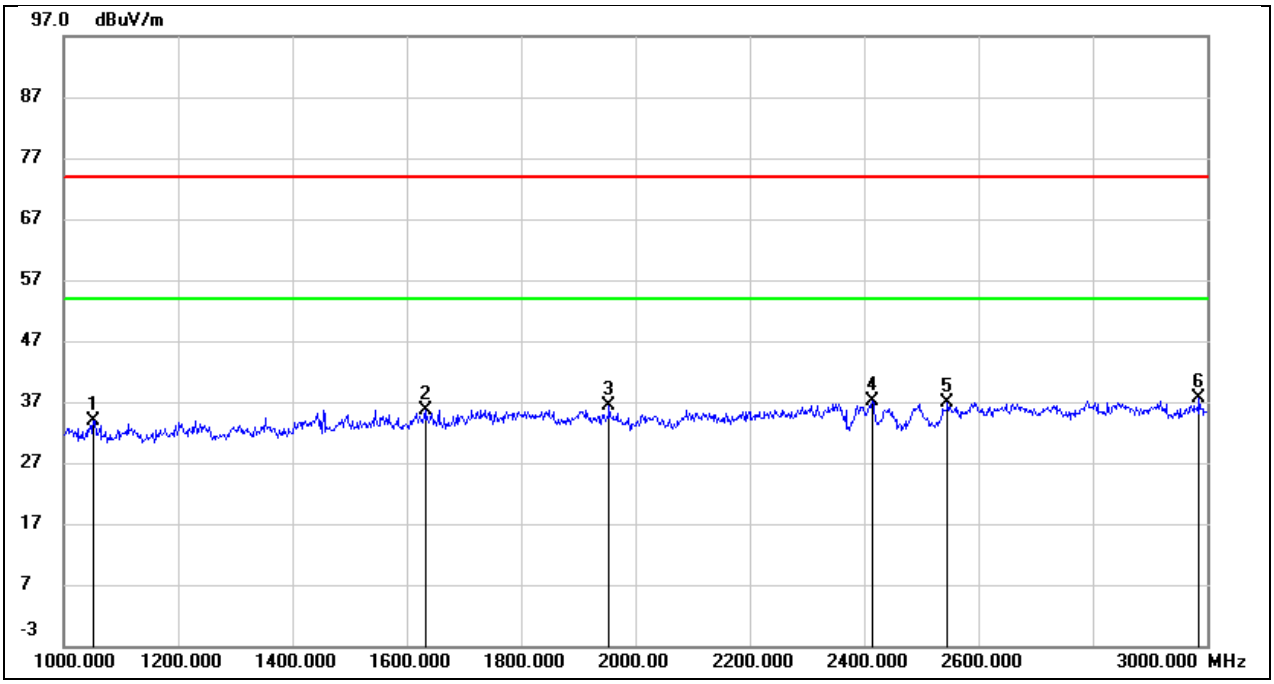
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1052.000	48.07	-14.09	33.98	74.00	-40.02	peak
2	1632.000	46.85	-11.20	35.65	74.00	-38.35	peak
3	1954.000	46.59	-10.25	36.34	74.00	-37.66	peak
4	2412.000	45.70	-8.57	37.13	/	/	Fundamental
5	2546.000	45.01	-8.02	36.99	74.00	-37.01	peak
6	2986.000	43.80	-6.27	37.53	74.00	-36.47	peak

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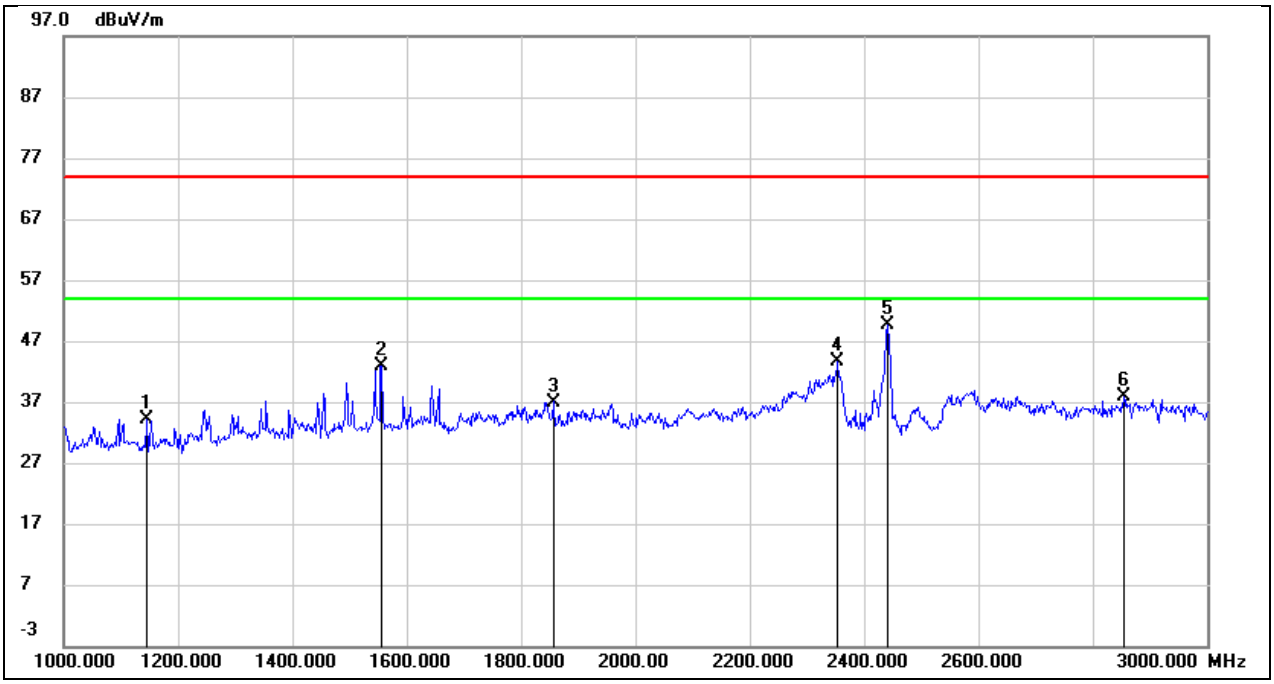
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1146.000	47.83	-13.66	34.17	74.00	-39.83	peak
2	1556.000	54.50	-11.62	42.88	74.00	-31.12	peak
3	1856.000	47.14	-10.14	37.00	74.00	-37.00	peak
4	2354.000	52.56	-8.82	43.74	74.00	-30.26	peak
5	2437.000	58.09	-8.45	49.64	/	/	Fundamental
6	2854.000	44.65	-6.82	37.83	74.00	-36.17	peak

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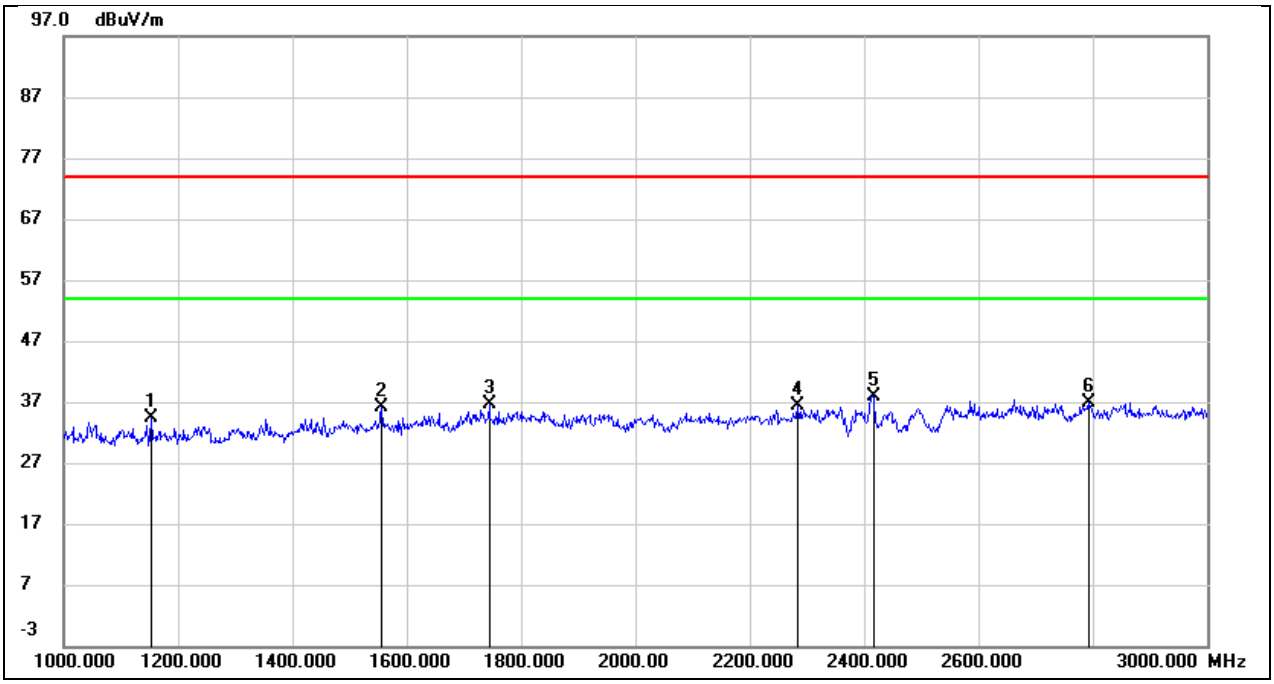
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1152.000	48.04	-13.63	34.41	74.00	-39.59	peak
2	1556.000	47.74	-11.62	36.12	74.00	-37.88	peak
3	1744.000	47.07	-10.45	36.62	74.00	-37.38	peak
4	2284.000	45.51	-9.11	36.40	74.00	-37.60	peak
5	2416.000	46.52	-8.56	37.96	74.00	-36.04	peak
6	2792.000	43.98	-7.07	36.91	74.00	-37.09	peak

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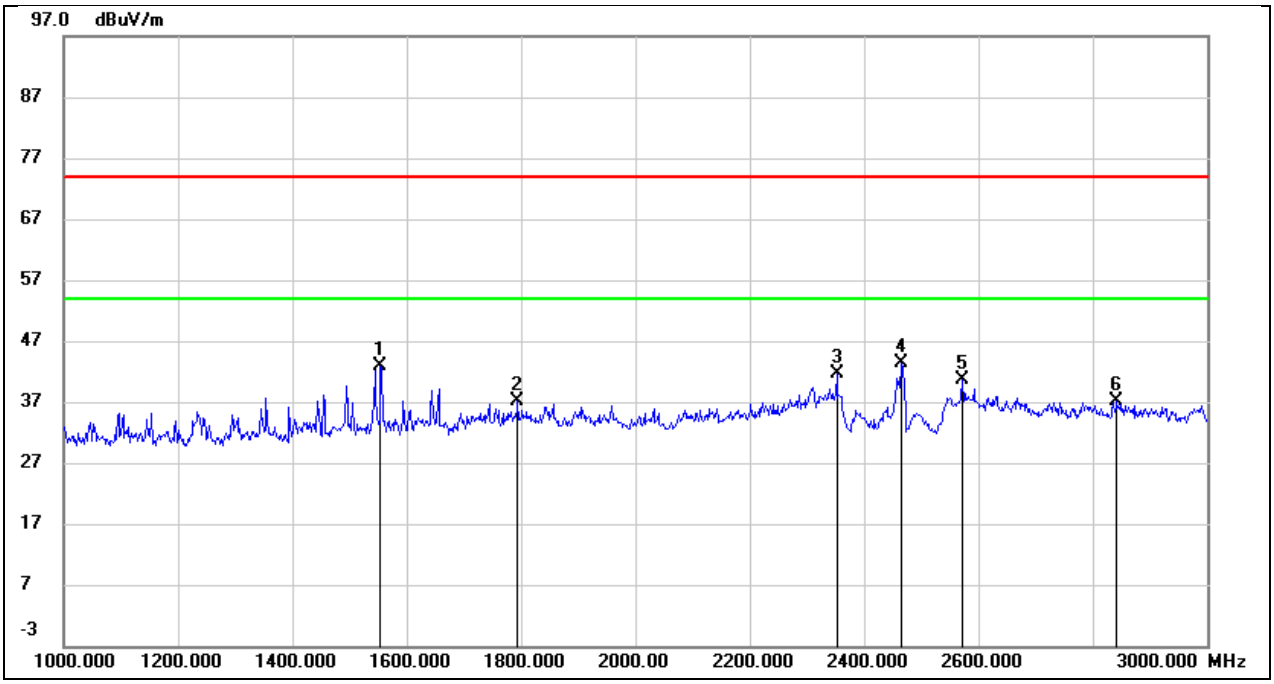
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1554.000	54.42	-11.63	42.79	74.00	-31.21	peak
2	1794.000	47.14	-10.12	37.02	74.00	-36.98	peak
3	2352.000	50.49	-8.84	41.65	74.00	-32.35	peak
4	2462.000	51.83	-8.35	43.48	/	/	Fundamental
5	2572.000	48.48	-7.92	40.56	74.00	-33.44	peak
6	2842.000	44.09	-6.86	37.23	74.00	-36.77	peak

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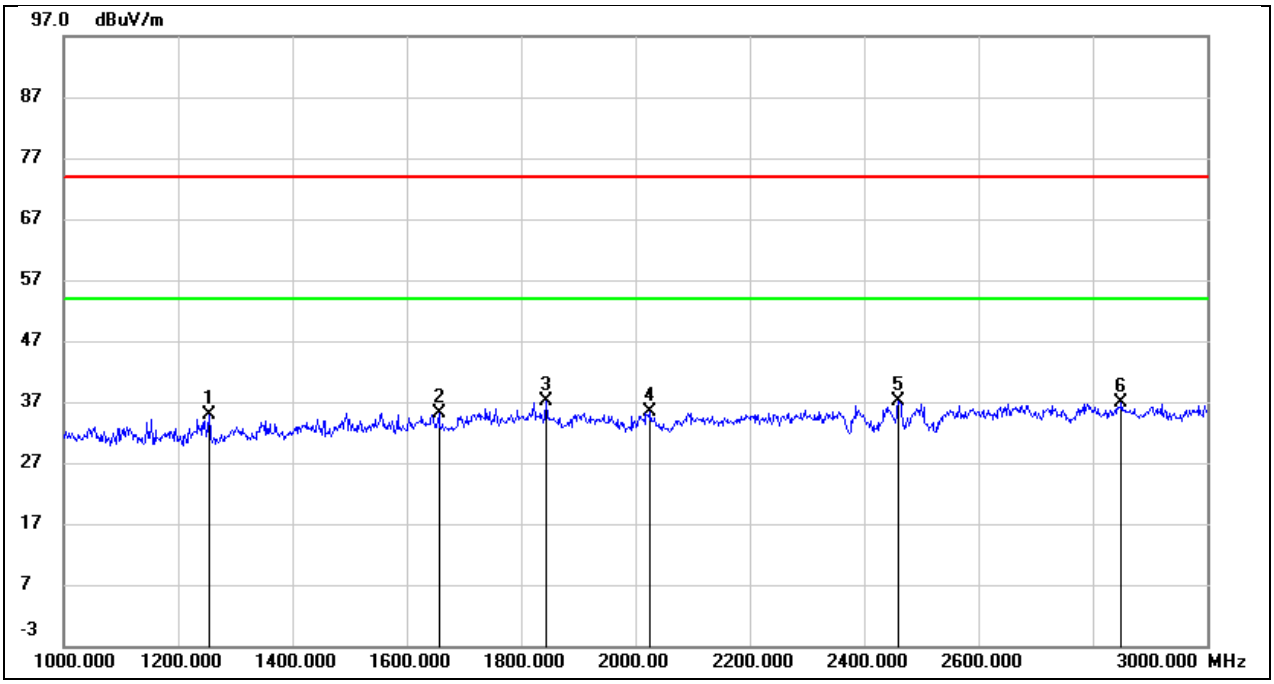
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1254.000	48.08	-13.15	34.93	74.00	-39.07	peak
2	1656.000	46.28	-11.05	35.23	74.00	-38.77	peak
3	1844.000	47.16	-10.13	37.03	74.00	-36.97	peak
4	2026.000	45.54	-10.19	35.35	74.00	-38.65	peak
5	2460.000	45.47	-8.38	37.09	74.00	-36.91	peak
6	2850.000	43.70	-6.83	36.87	74.00	-37.13	peak

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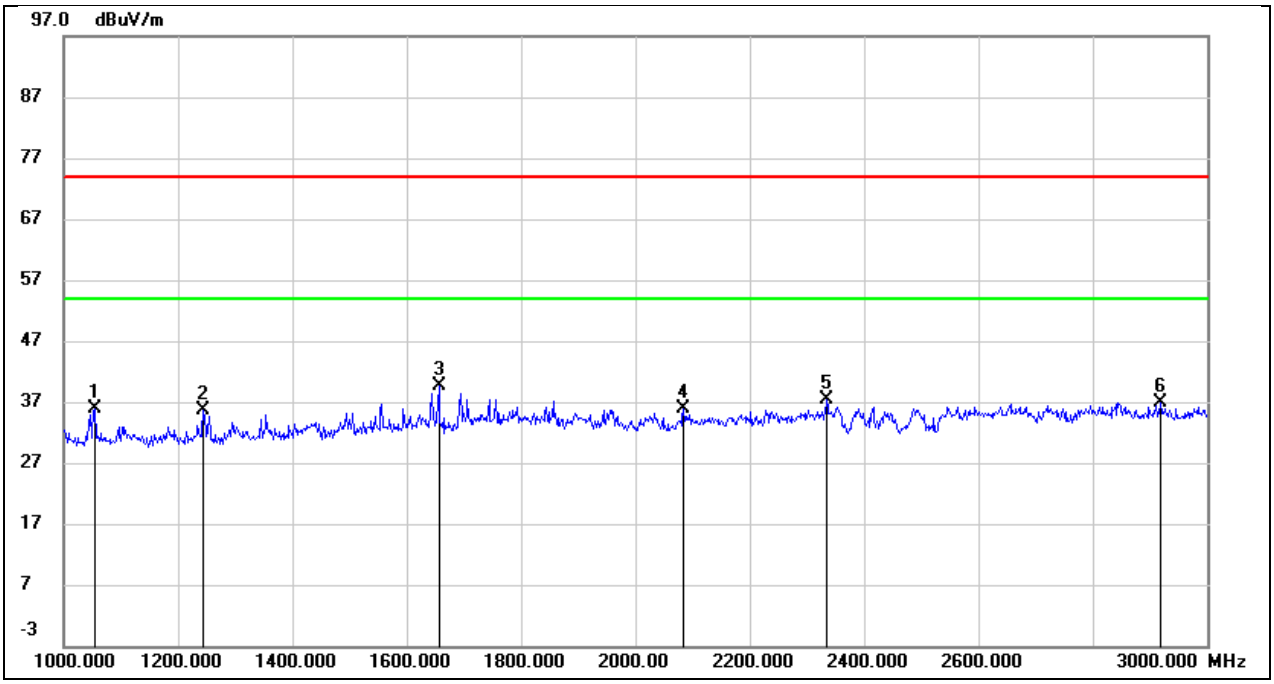
Test Mode:	802.11b	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1054.000	50.00	-14.09	35.91	74.00	-38.09	peak
2	1244.000	48.90	-13.20	35.70	74.00	-38.30	peak
3	1656.000	50.62	-11.05	39.57	74.00	-34.43	peak
4	2084.000	45.92	-9.95	35.97	74.00	-38.03	peak
5	2334.000	46.39	-8.91	37.48	74.00	-36.52	peak
6	2918.000	43.42	-6.55	36.87	74.00	-37.13	peak

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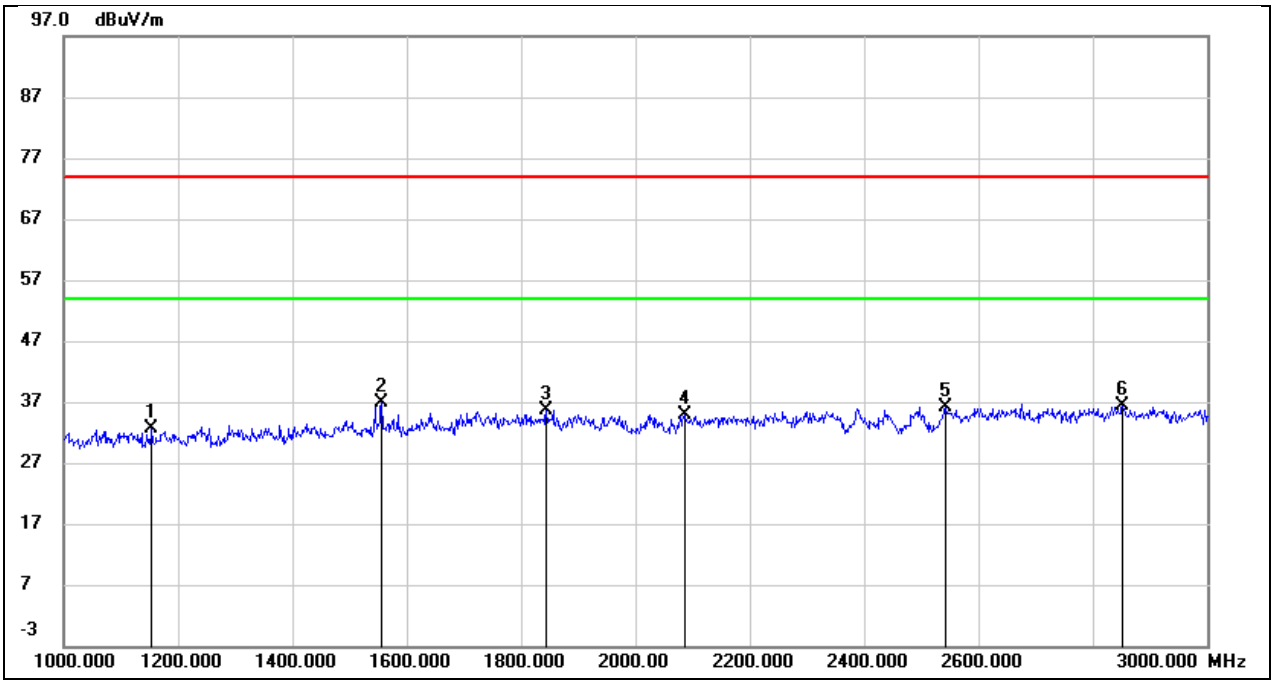
Test Mode:	802.11b	Frequency(MHz):	2472
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1154.000	46.37	-13.63	32.74	74.00	-41.26	peak
2	1556.000	48.44	-11.62	36.82	74.00	-37.18	peak
3	1844.000	45.67	-10.13	35.54	74.00	-38.46	peak
4	2086.000	44.92	-9.94	34.98	74.00	-39.02	peak
5	2542.000	44.16	-8.03	36.13	74.00	-37.87	peak
6	2852.000	43.31	-6.83	36.48	74.00	-37.52	peak

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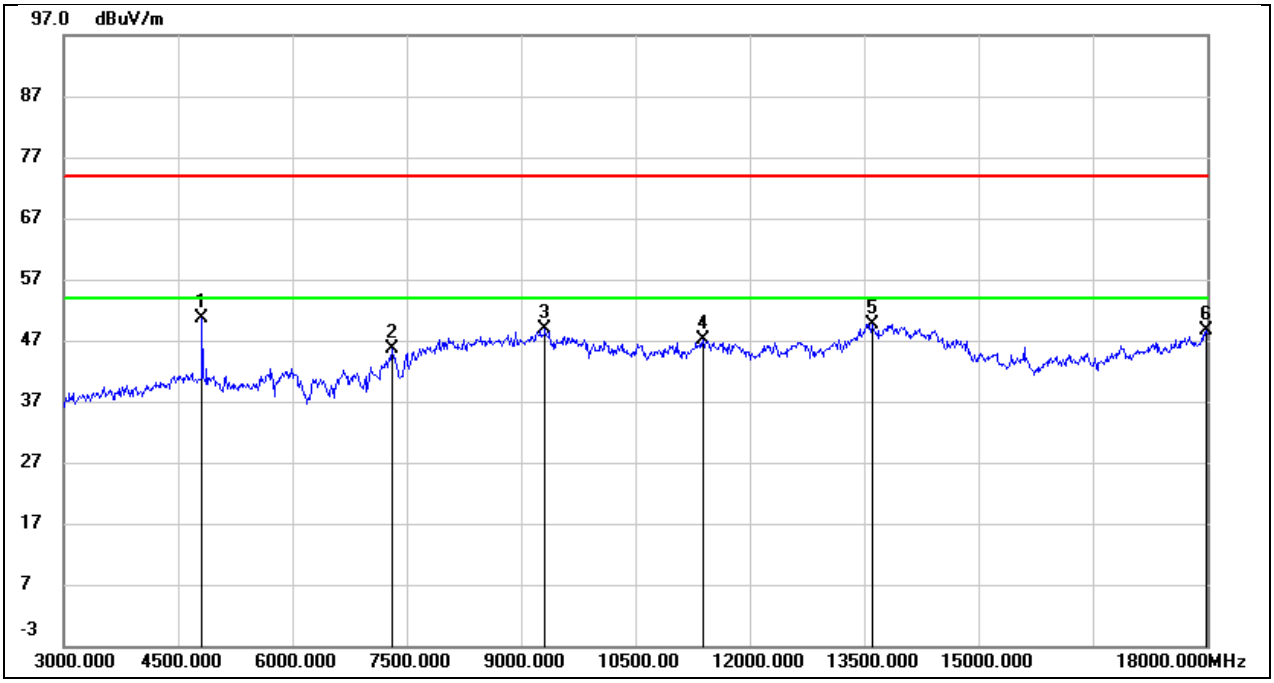
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	50.03	0.60	50.63	74.00	-23.37	peak
2	7305.000	38.65	6.88	45.53	74.00	-28.47	peak
3	9315.000	37.52	11.42	48.94	74.00	-25.06	peak
4	11385.000	29.65	17.43	47.08	74.00	-26.92	peak
5	13605.000	26.66	23.01	49.67	74.00	-24.33	peak
6	17985.000	20.16	28.41	48.57	74.00	-25.43	peak

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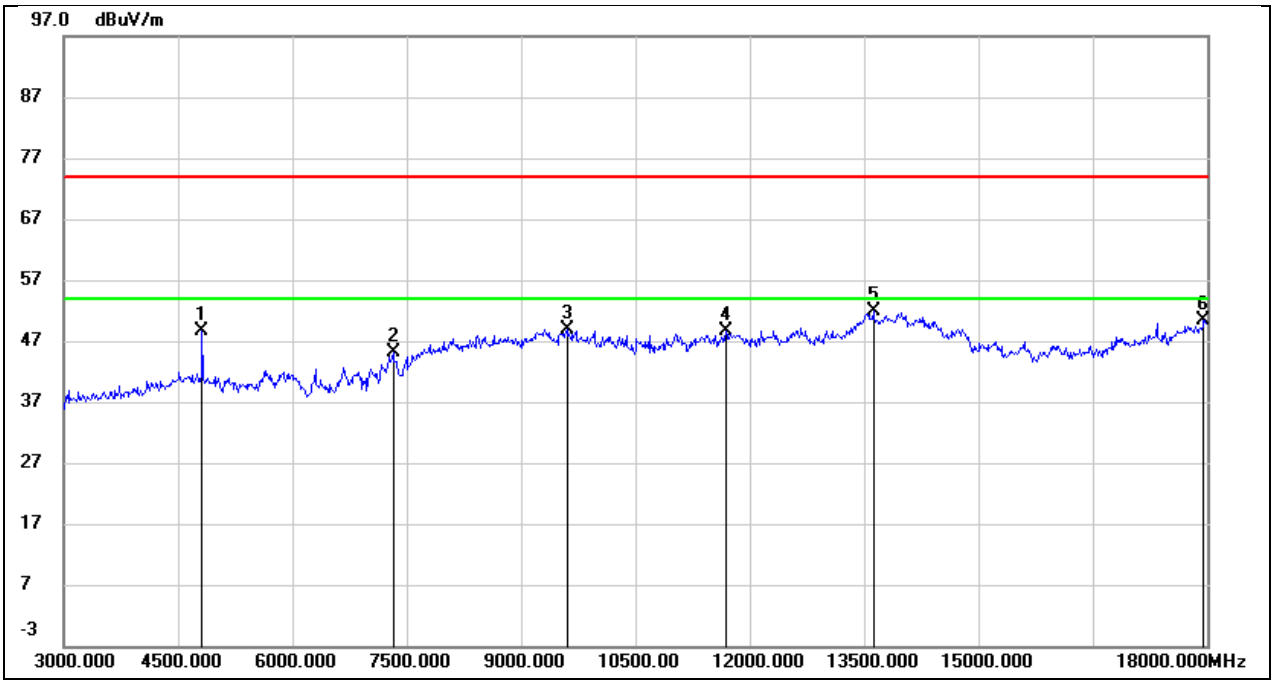
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.02	0.60	48.62	74.00	-25.38	peak
2	7320.000	38.16	6.89	45.05	74.00	-28.95	peak
3	9600.000	36.23	12.65	48.88	74.00	-25.12	peak
4	11685.000	30.41	18.16	48.57	74.00	-25.43	peak
5	13620.000	28.82	23.03	51.85	74.00	-22.15	peak
6	17955.000	22.21	28.14	50.35	74.00	-23.65	peak

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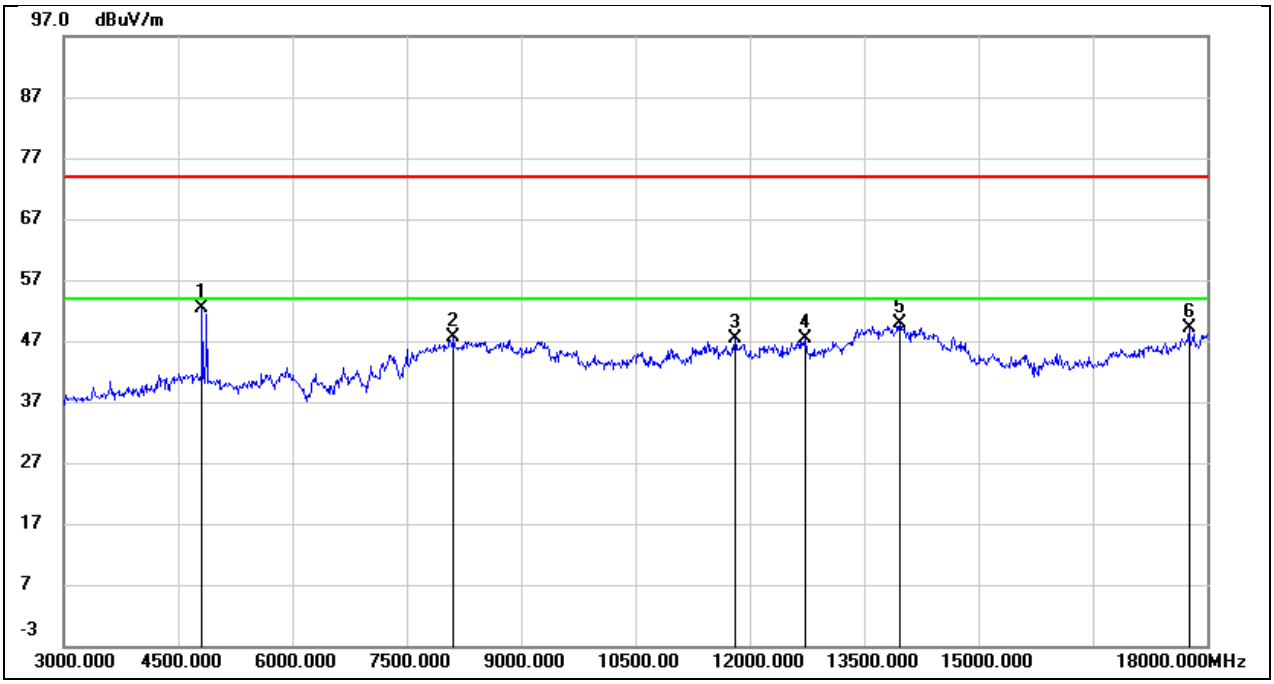
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	51.69	0.60	52.29	74.00	-21.71	peak
2	8115.000	39.28	8.41	47.69	74.00	-26.31	peak
3	11805.000	28.82	18.45	47.27	74.00	-26.73	peak
4	12735.000	27.48	19.94	47.42	74.00	-26.58	peak
5	13965.000	26.04	23.96	50.00	74.00	-24.00	peak
6	17760.000	22.50	26.54	49.04	74.00	-24.96	peak

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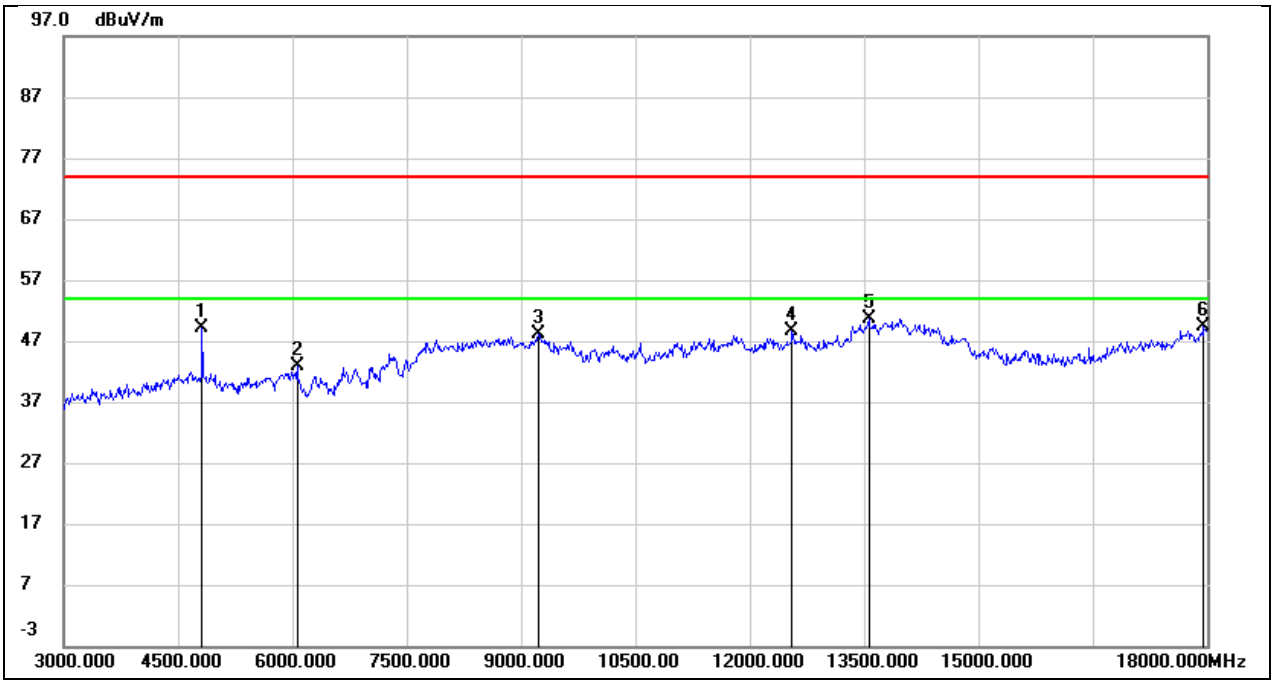
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.53	0.60	49.13	74.00	-24.87	peak
2	6060.000	39.65	3.21	42.86	74.00	-31.14	peak
3	9225.000	37.20	11.04	48.24	74.00	-25.76	peak
4	12555.000	29.04	19.69	48.73	74.00	-25.27	peak
5	13560.000	27.71	22.94	50.65	74.00	-23.35	peak
6	17955.000	21.12	28.14	49.26	74.00	-24.74	peak

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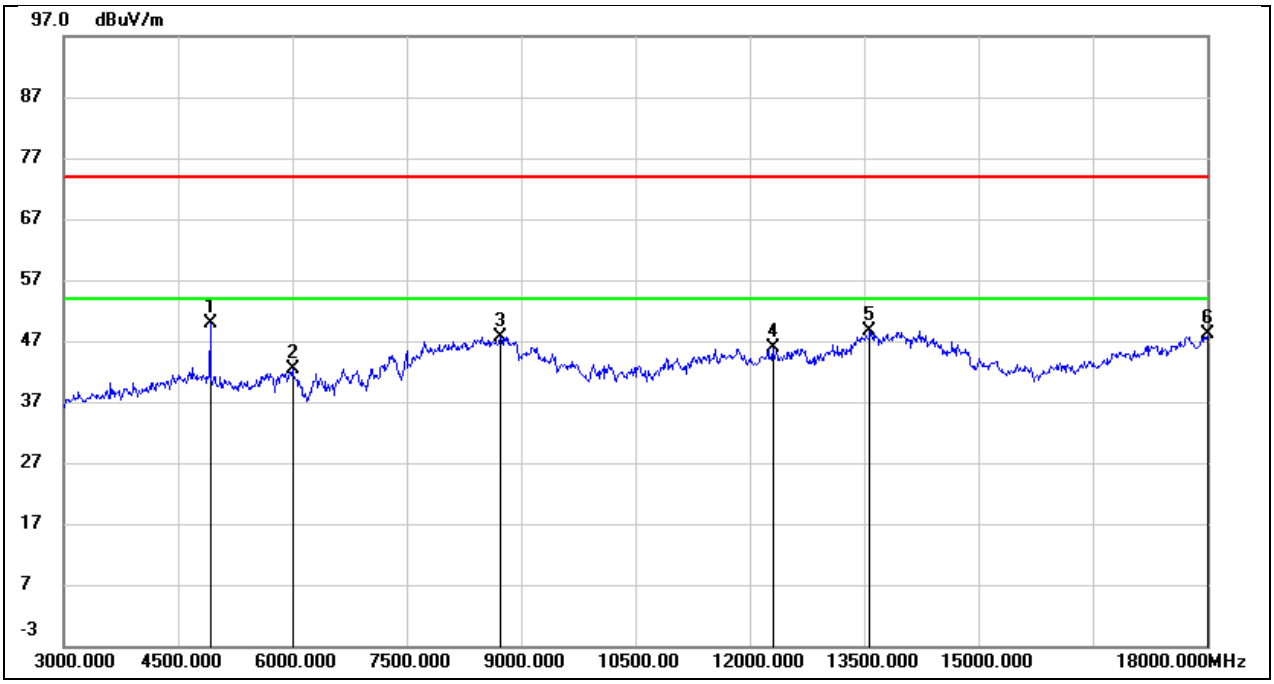
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	48.98	0.86	49.84	74.00	-24.16	peak
2	6000.000	39.41	2.93	42.34	74.00	-31.66	peak
3	8730.000	38.26	9.42	47.68	74.00	-26.32	peak
4	12300.000	26.43	19.37	45.80	74.00	-28.20	peak
5	13575.000	25.73	22.97	48.70	74.00	-25.30	peak
6	18000.000	19.53	28.54	48.07	74.00	-25.93	peak

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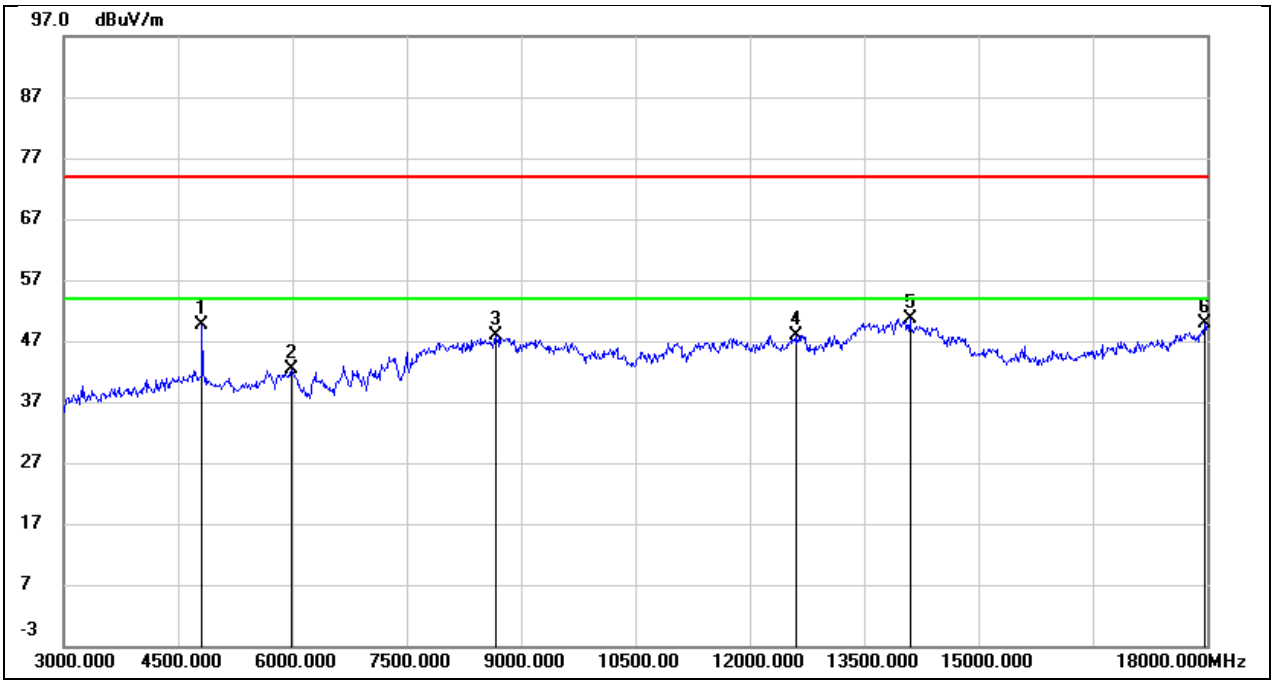
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	49.05	0.60	49.65	74.00	-24.35	peak
2	5985.000	39.42	2.91	42.33	74.00	-31.67	peak
3	8670.000	38.47	9.37	47.84	74.00	-26.16	peak
4	12615.000	28.13	19.72	47.85	74.00	-26.15	peak
5	14100.000	26.93	23.79	50.72	74.00	-23.28	peak
6	17970.000	21.65	28.27	49.92	74.00	-24.08	peak

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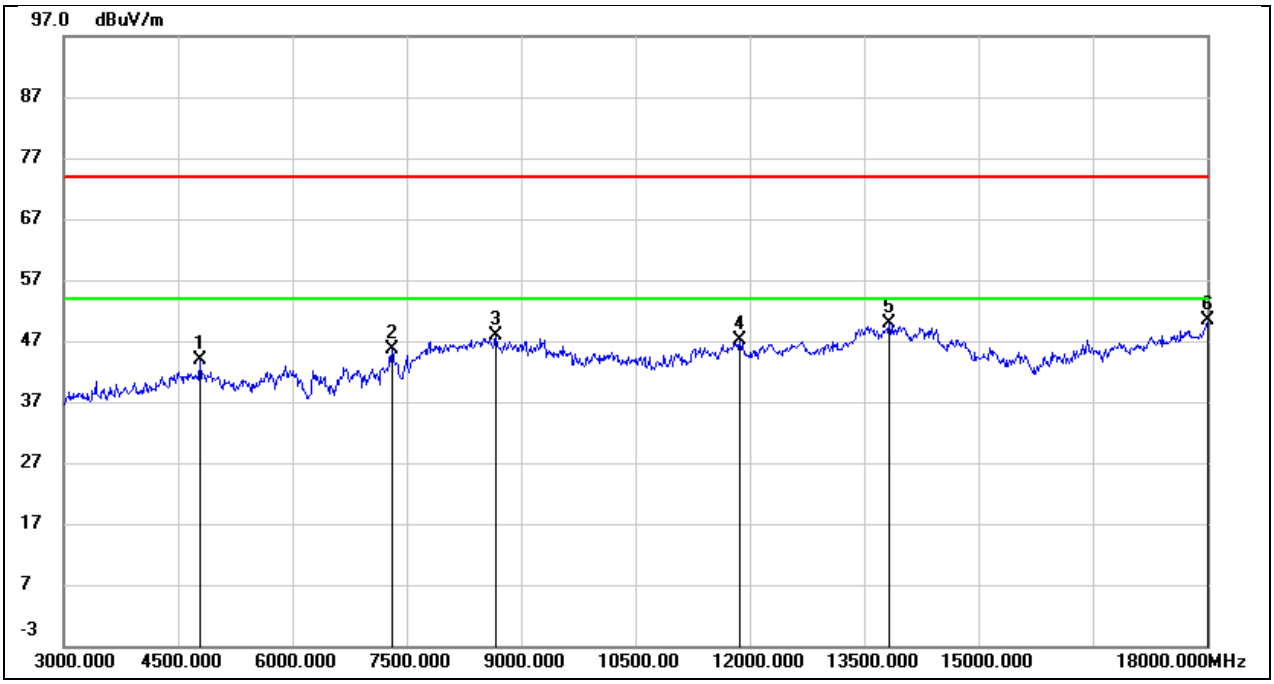
Test Mode:	802.11b	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4785.000	43.33	0.53	43.86	74.00	-30.14	peak
2	7305.000	38.75	6.88	45.63	74.00	-28.37	peak
3	8670.000	38.60	9.37	47.97	74.00	-26.03	peak
4	11865.000	28.63	18.57	47.20	74.00	-26.80	peak
5	13830.000	26.37	23.39	49.76	74.00	-24.24	peak
6	18000.000	21.74	28.54	50.28	74.00	-23.72	peak

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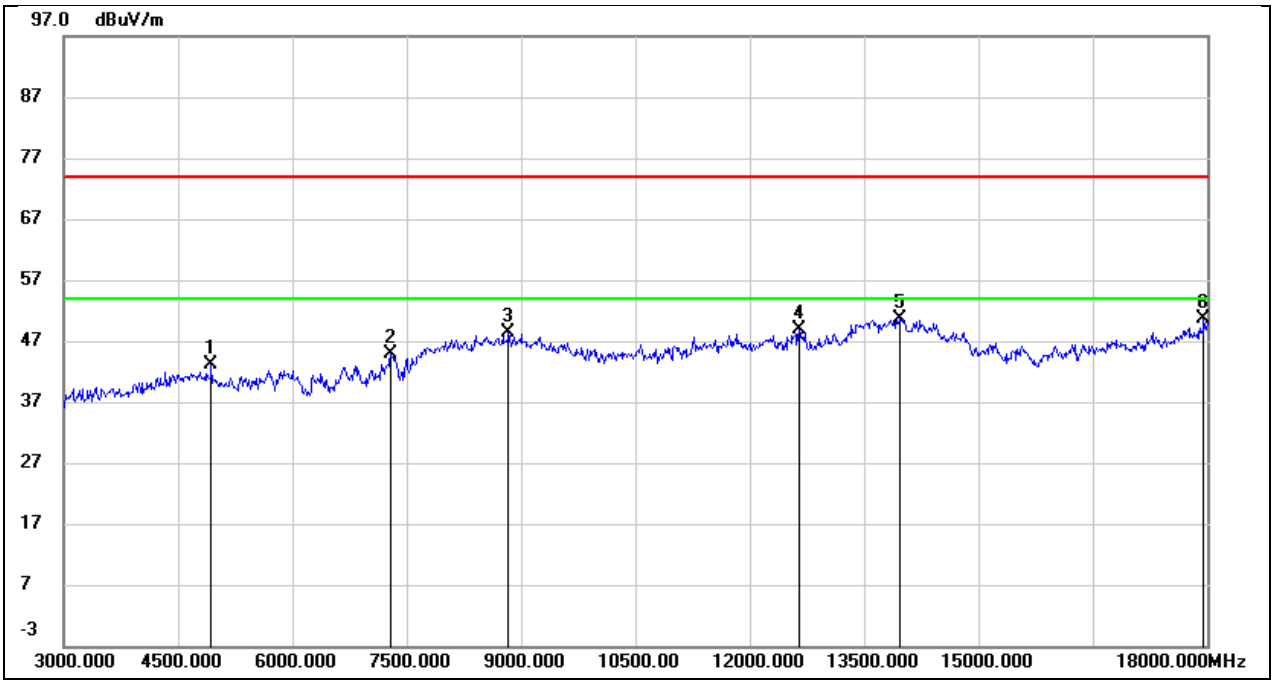
Test Mode:	802.11b	Frequency(MHz):	2472
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4935.000	42.14	0.90	43.04	74.00	-30.96	peak
2	7290.000	37.92	6.88	44.80	74.00	-29.20	peak
3	8835.000	38.84	9.60	48.44	74.00	-25.56	peak
4	12645.000	29.18	19.78	48.96	74.00	-25.04	peak
5	13965.000	26.77	23.96	50.73	74.00	-23.27	peak
6	17955.000	22.39	28.14	50.53	74.00	-23.47	peak

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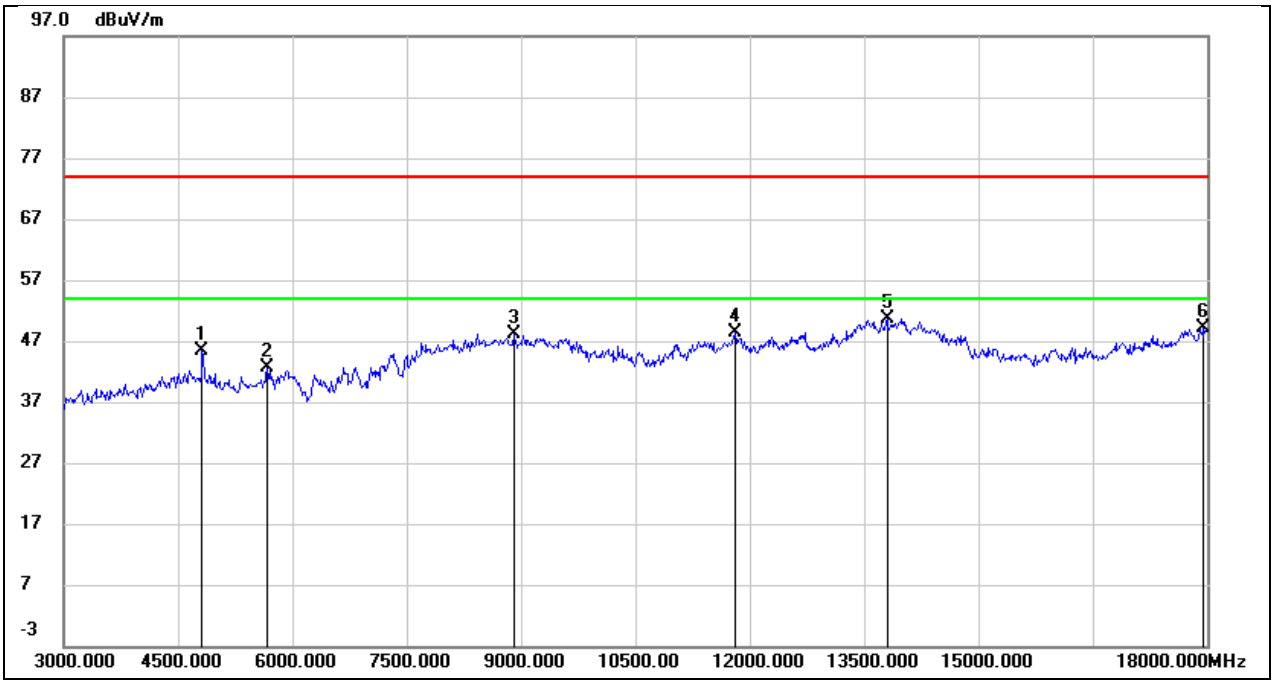
Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	44.77	0.60	45.37	74.00	-28.63	peak
2	5670.000	40.18	2.33	42.51	74.00	-31.49	peak
3	8910.000	38.31	9.81	48.12	74.00	-25.88	peak
4	11805.000	29.83	18.45	48.28	74.00	-25.72	peak
5	13800.000	27.46	23.27	50.73	74.00	-23.27	peak
6	17955.000	21.03	28.14	49.17	74.00	-24.83	peak

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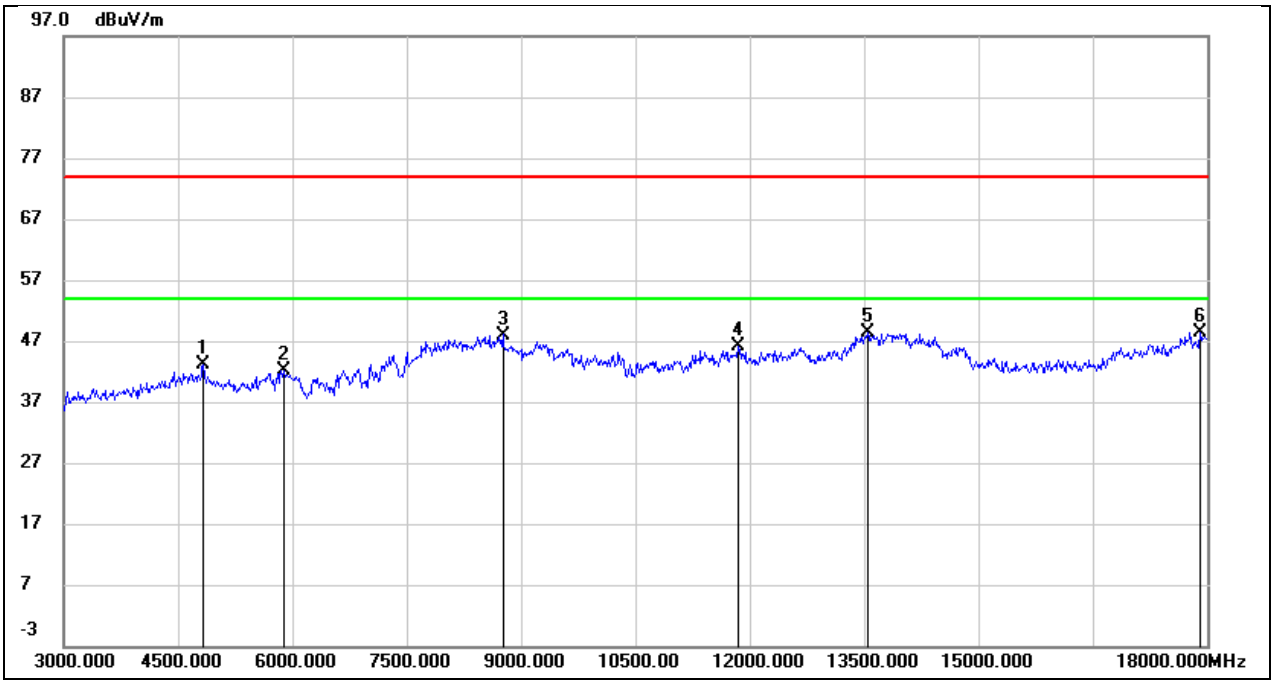
Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	42.54	0.64	43.18	74.00	-30.82	peak
2	5880.000	39.32	2.72	42.04	74.00	-31.96	peak
3	8760.000	38.54	9.46	48.00	74.00	-26.00	peak
4	11850.000	27.71	18.53	46.24	74.00	-27.76	peak
5	13545.000	25.43	22.91	48.34	74.00	-25.66	peak
6	17910.000	20.66	27.75	48.41	74.00	-25.59	peak

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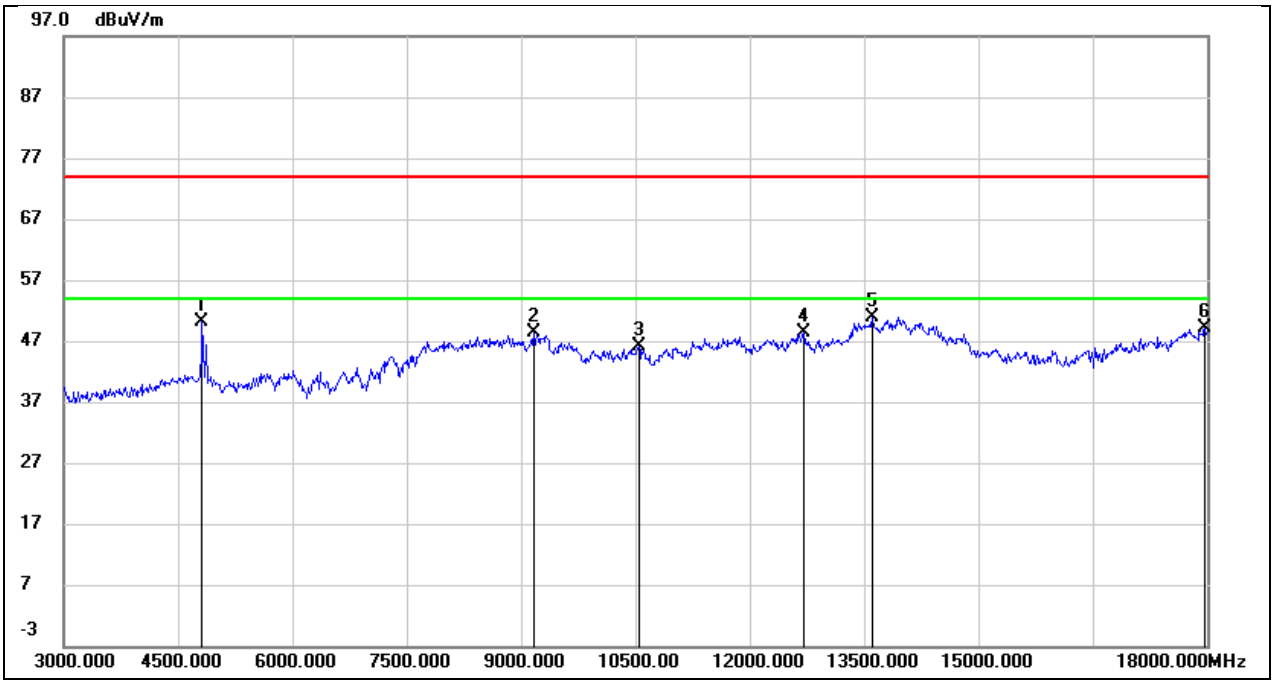
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	49.64	0.60	50.24	74.00	-23.76	peak
2	9165.000	37.64	10.79	48.43	74.00	-25.57	peak
3	10545.000	31.73	14.35	46.08	74.00	-27.92	peak
4	12705.000	28.39	19.88	48.27	74.00	-25.73	peak
5	13605.000	27.97	23.01	50.98	74.00	-23.02	peak
6	17970.000	20.81	28.27	49.08	74.00	-24.92	peak

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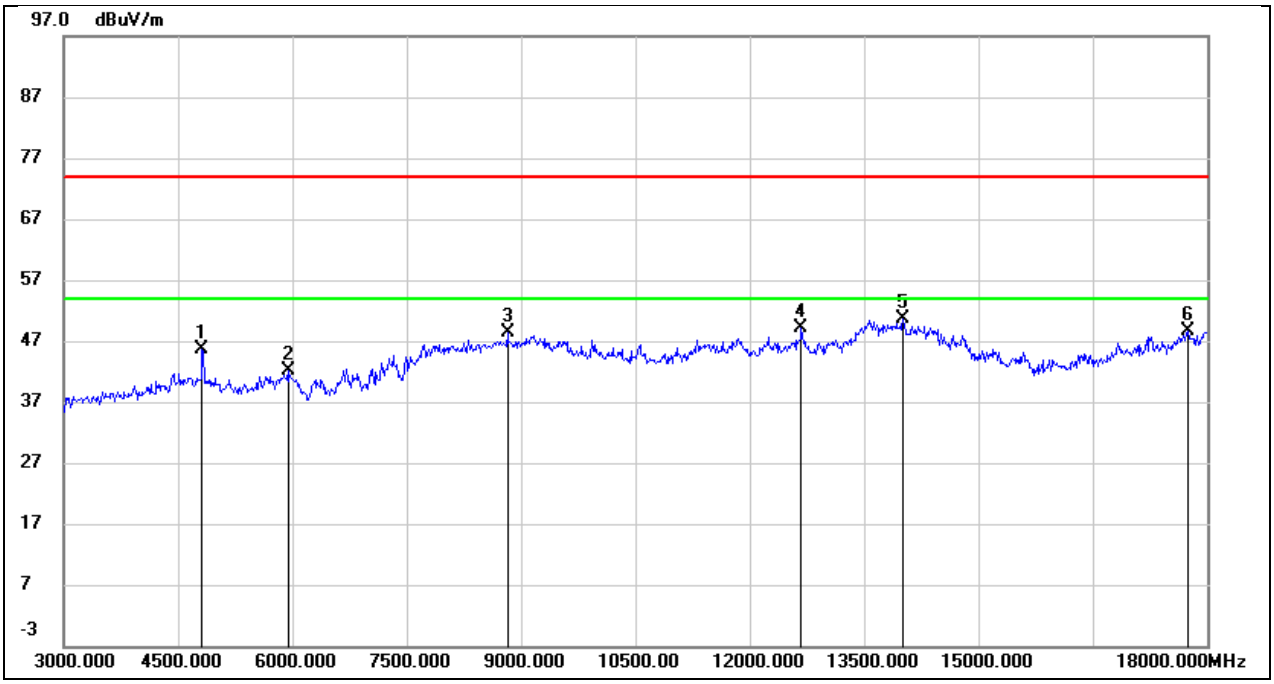
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	45.03	0.60	45.63	74.00	-28.37	peak
2	5940.000	39.37	2.83	42.20	74.00	-31.80	peak
3	8820.000	38.74	9.56	48.30	74.00	-25.70	peak
4	12675.000	29.30	19.83	49.13	74.00	-24.87	peak
5	14010.000	26.57	24.07	50.64	74.00	-23.36	peak
6	17745.000	22.25	26.46	48.71	74.00	-25.29	peak

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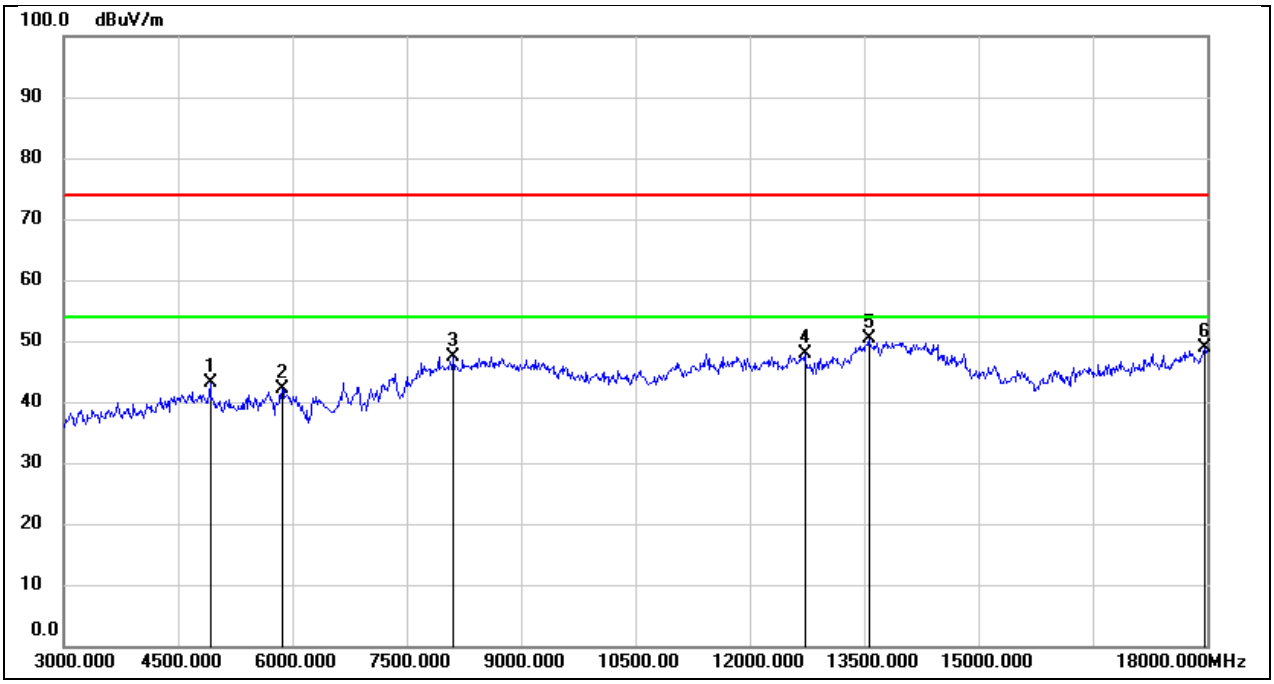
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	42.18	0.86	43.04	74.00	-30.96	peak
2	5865.000	39.49	2.69	42.18	74.00	-31.82	peak
3	8115.000	39.05	8.41	47.46	74.00	-26.54	peak
4	12720.000	28.03	19.91	47.94	74.00	-26.06	peak
5	13560.000	27.45	22.94	50.39	74.00	-23.61	peak
6	17970.000	20.67	28.27	48.94	74.00	-25.06	peak

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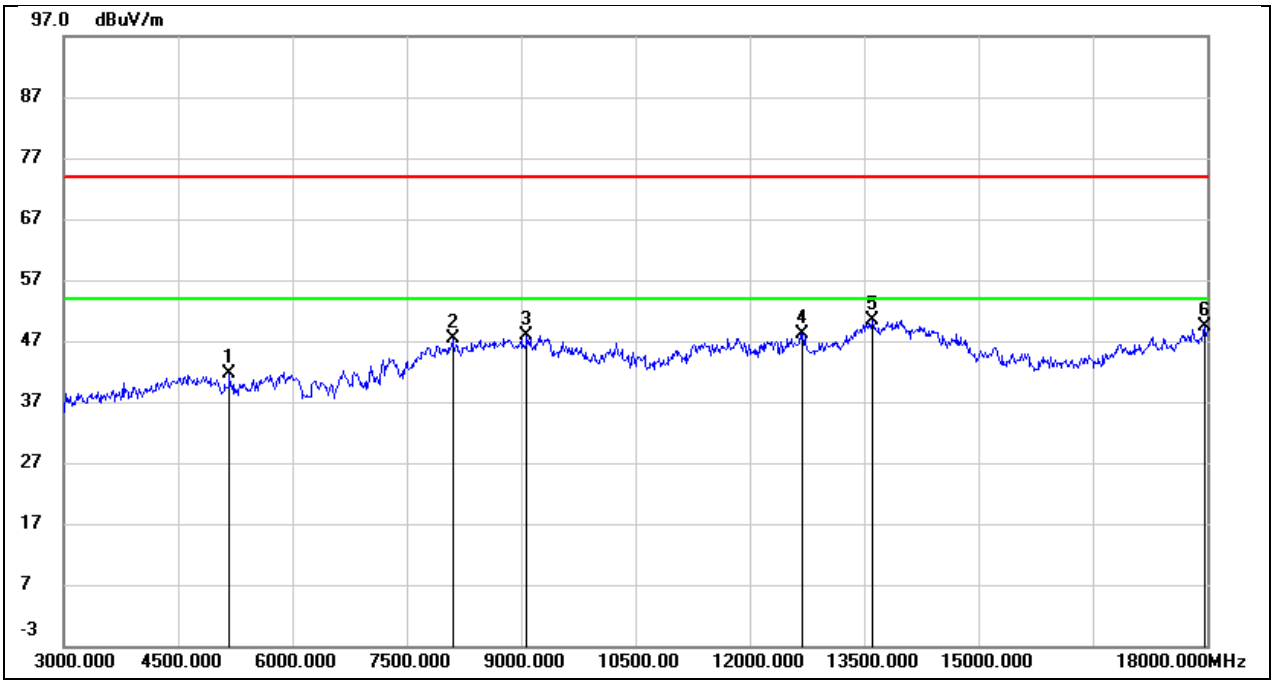
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5175.000	40.51	1.15	41.66	74.00	-32.34	peak
2	8100.000	38.95	8.37	47.32	74.00	-26.68	peak
3	9075.000	37.47	10.40	47.87	74.00	-26.13	peak
4	12690.000	28.26	19.85	48.11	74.00	-25.89	peak
5	13605.000	27.31	23.01	50.32	74.00	-23.68	peak
6	17970.000	21.12	28.27	49.39	74.00	-24.61	peak

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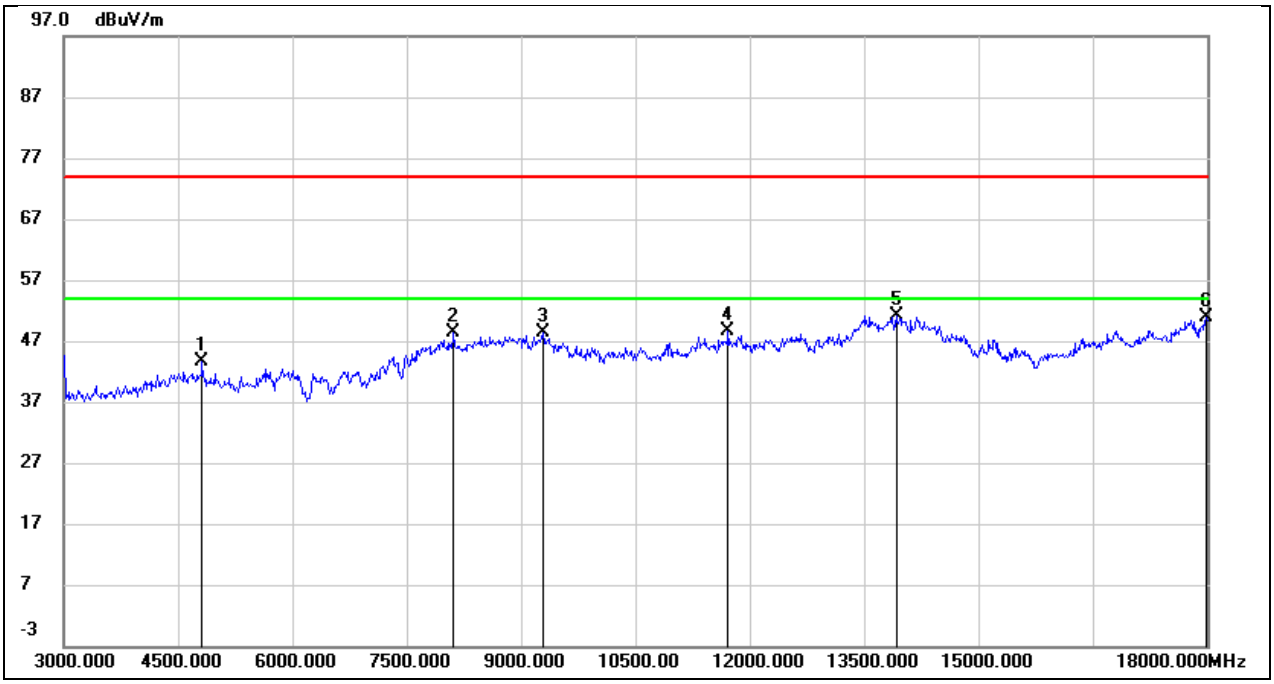
Test Mode:	802.11g	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	43.03	0.60	43.63	74.00	-30.37	peak
2	8115.000	39.92	8.41	48.33	74.00	-25.67	peak
3	9285.000	37.03	11.29	48.32	74.00	-25.68	peak
4	11715.000	30.36	18.23	48.59	74.00	-25.41	peak
5	13920.000	27.36	23.77	51.13	74.00	-22.87	peak
6	17985.000	22.44	28.41	50.85	74.00	-23.15	peak

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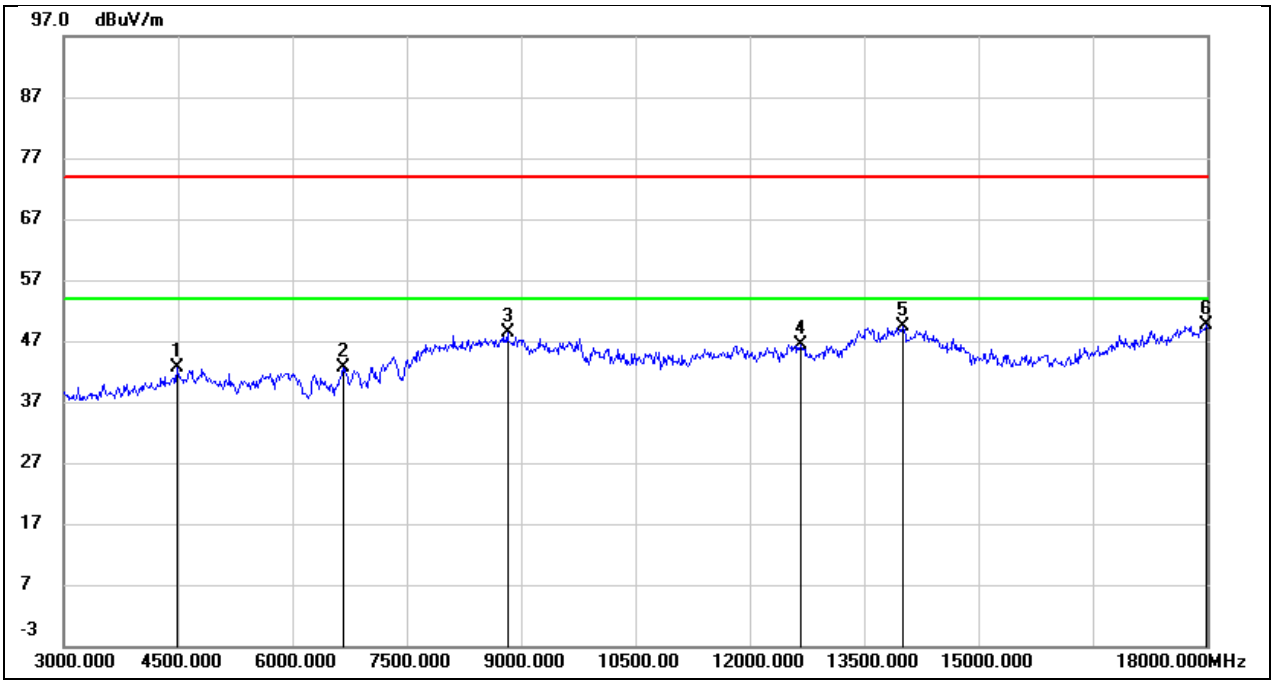
Test Mode:	802.11g	Frequency(MHz):	2472
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4485.000	42.98	-0.39	42.59	74.00	-31.41	peak
2	6660.000	37.32	5.34	42.66	74.00	-31.34	peak
3	8820.000	38.78	9.56	48.34	74.00	-25.66	peak
4	12675.000	26.56	19.83	46.39	74.00	-27.61	peak
5	14010.000	25.35	24.07	49.42	74.00	-24.58	peak
6	17985.000	21.10	28.41	49.51	74.00	-24.49	peak

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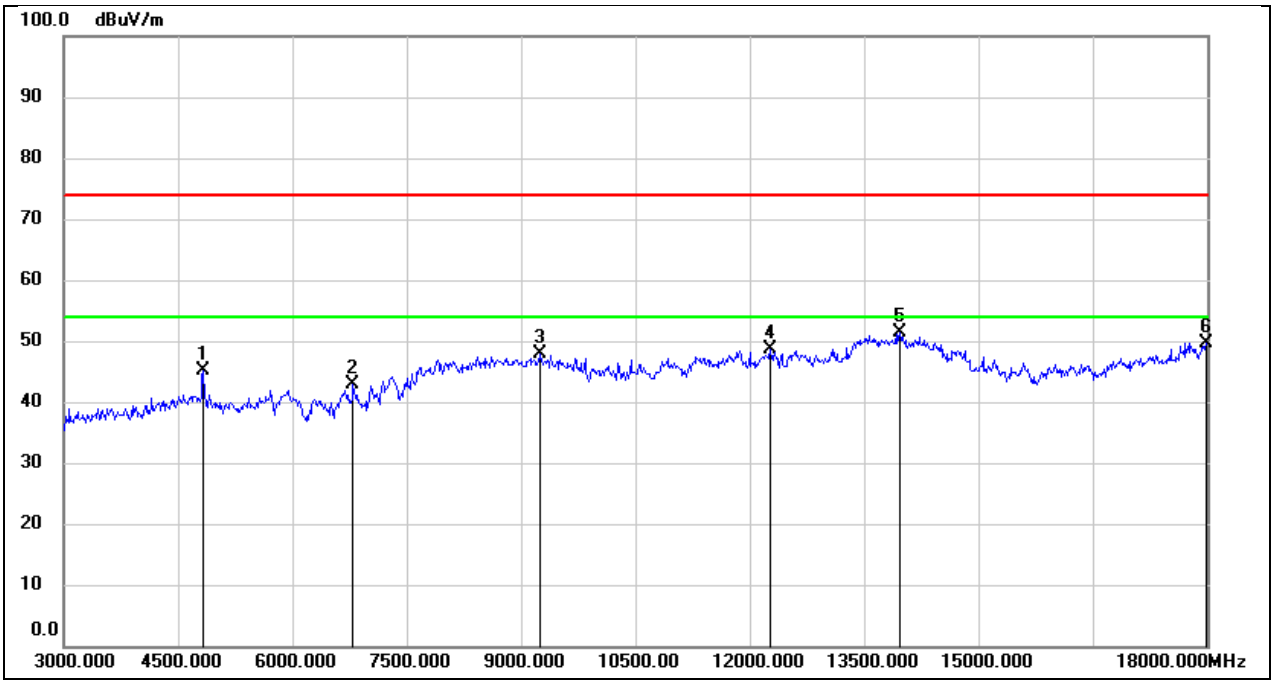
Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	44.48	0.64	45.12	74.00	-28.88	peak
2	6795.000	36.84	5.92	42.76	74.00	-31.24	peak
3	9240.000	36.76	11.11	47.87	74.00	-26.13	peak
4	12270.000	29.36	19.28	48.64	74.00	-25.36	peak
5	13965.000	27.37	23.96	51.33	74.00	-22.67	peak
6	17985.000	21.26	28.41	49.67	74.00	-24.33	peak

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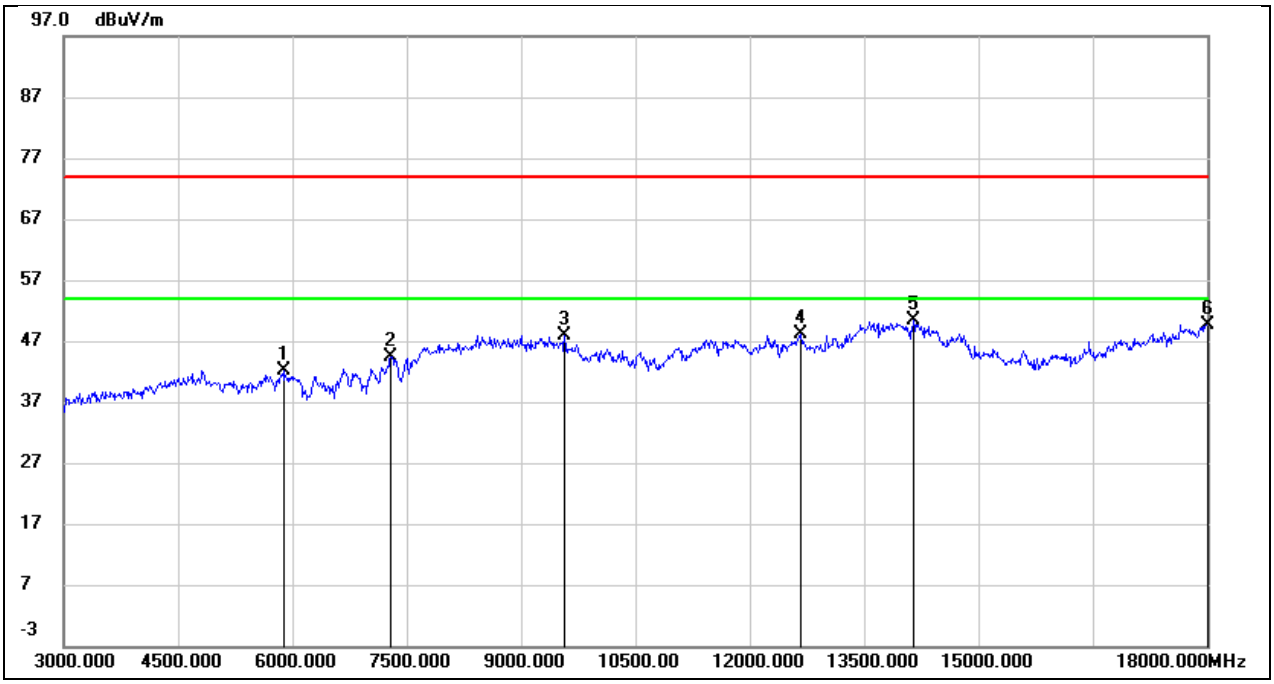
Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5880.000	39.35	2.72	42.07	74.00	-31.93	peak
2	7290.000	37.53	6.88	44.41	74.00	-29.59	peak
3	9570.000	35.35	12.51	47.86	74.00	-26.14	peak
4	12675.000	28.34	19.83	48.17	74.00	-25.83	peak
5	14145.000	26.68	23.65	50.33	74.00	-23.67	peak
6	18000.000	21.21	28.54	49.75	74.00	-24.25	peak

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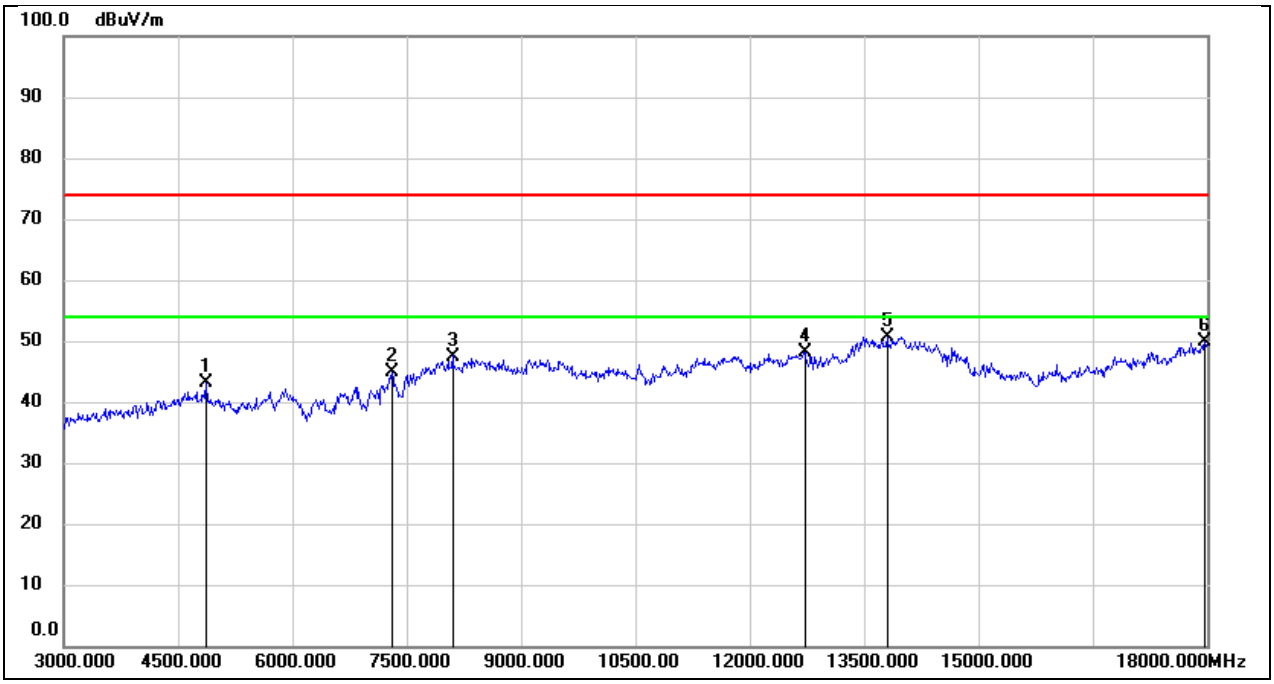
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	42.49	0.72	43.21	74.00	-30.79	peak
2	7305.000	38.02	6.88	44.90	74.00	-29.10	peak
3	8100.000	39.13	8.37	47.50	74.00	-26.50	peak
4	12720.000	28.27	19.91	48.18	74.00	-25.82	peak
5	13800.000	27.48	23.27	50.75	74.00	-23.25	peak
6	17970.000	21.58	28.27	49.85	74.00	-24.15	peak

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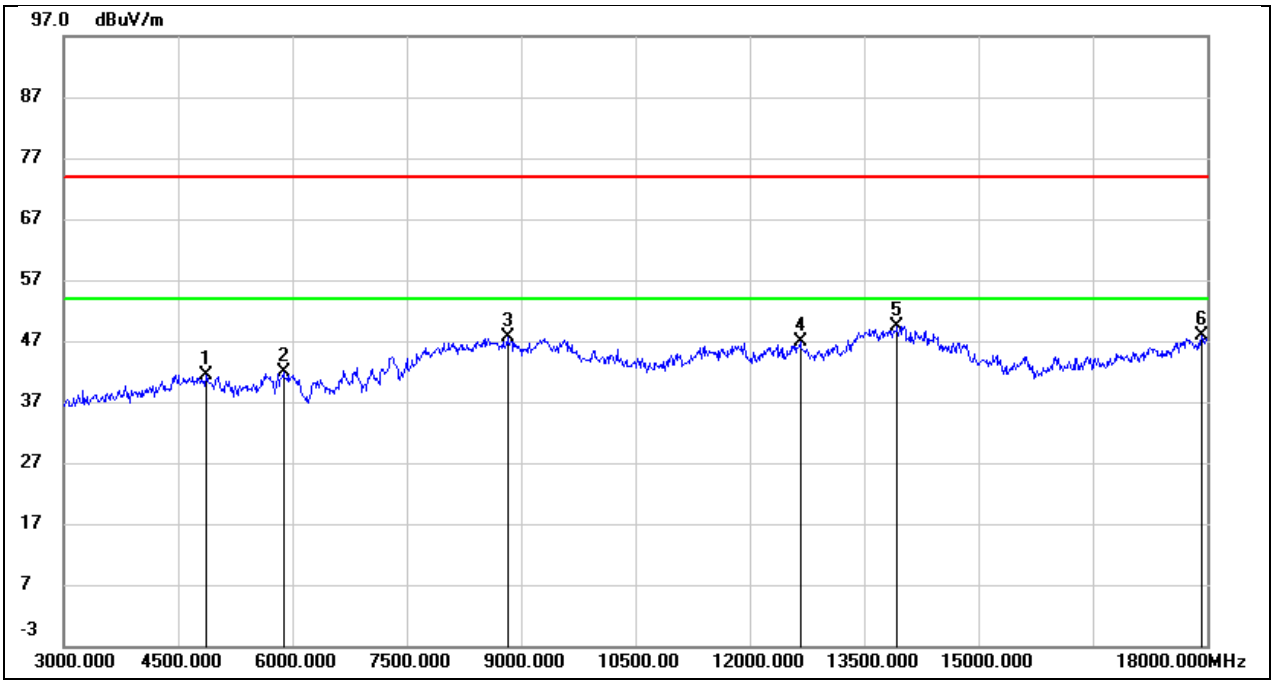
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	40.64	0.75	41.39	74.00	-32.61	peak
2	5880.000	39.06	2.72	41.78	74.00	-32.22	peak
3	8820.000	38.03	9.56	47.59	74.00	-26.41	peak
4	12660.000	27.00	19.80	46.80	74.00	-27.20	peak
5	13935.000	25.59	23.83	49.42	74.00	-24.58	peak
6	17925.000	19.99	27.87	47.86	74.00	-26.14	peak

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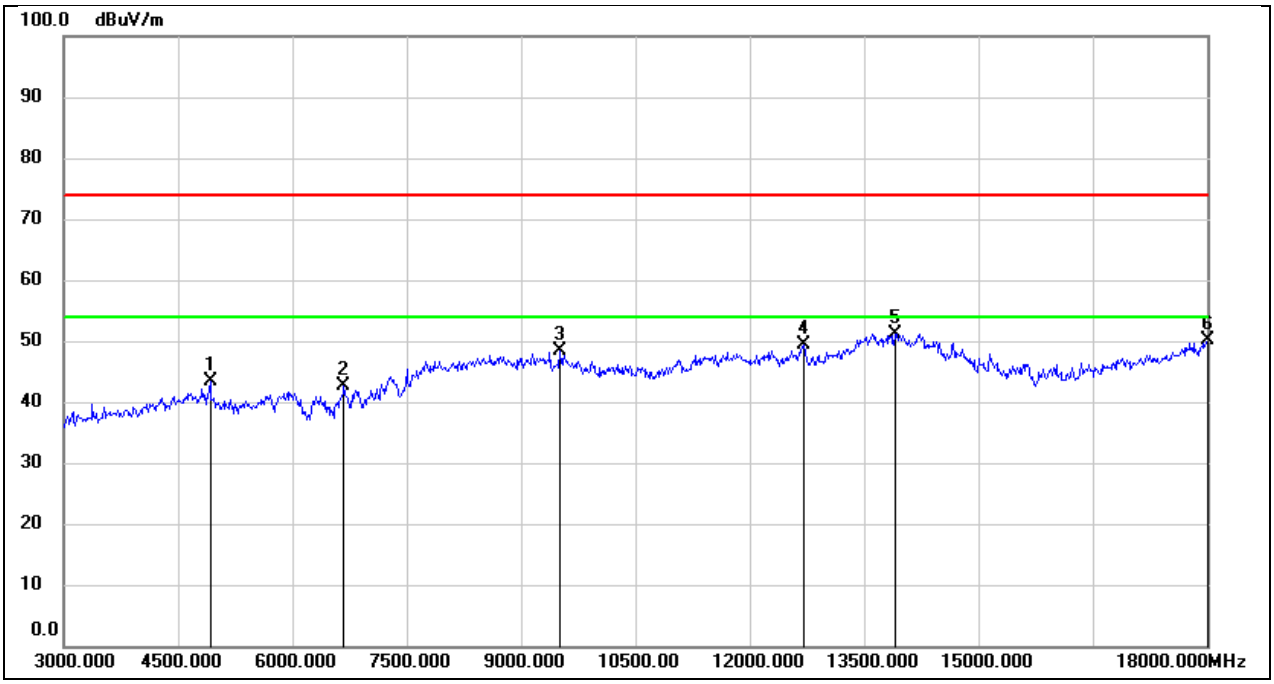
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	42.58	0.86	43.44	74.00	-30.56	peak
2	6675.000	37.25	5.40	42.65	74.00	-31.35	peak
3	9510.000	36.07	12.25	48.32	74.00	-25.68	peak
4	12705.000	29.42	19.88	49.30	74.00	-24.70	peak
5	13905.000	27.53	23.70	51.23	74.00	-22.77	peak
6	18000.000	21.69	28.54	50.23	74.00	-23.77	peak

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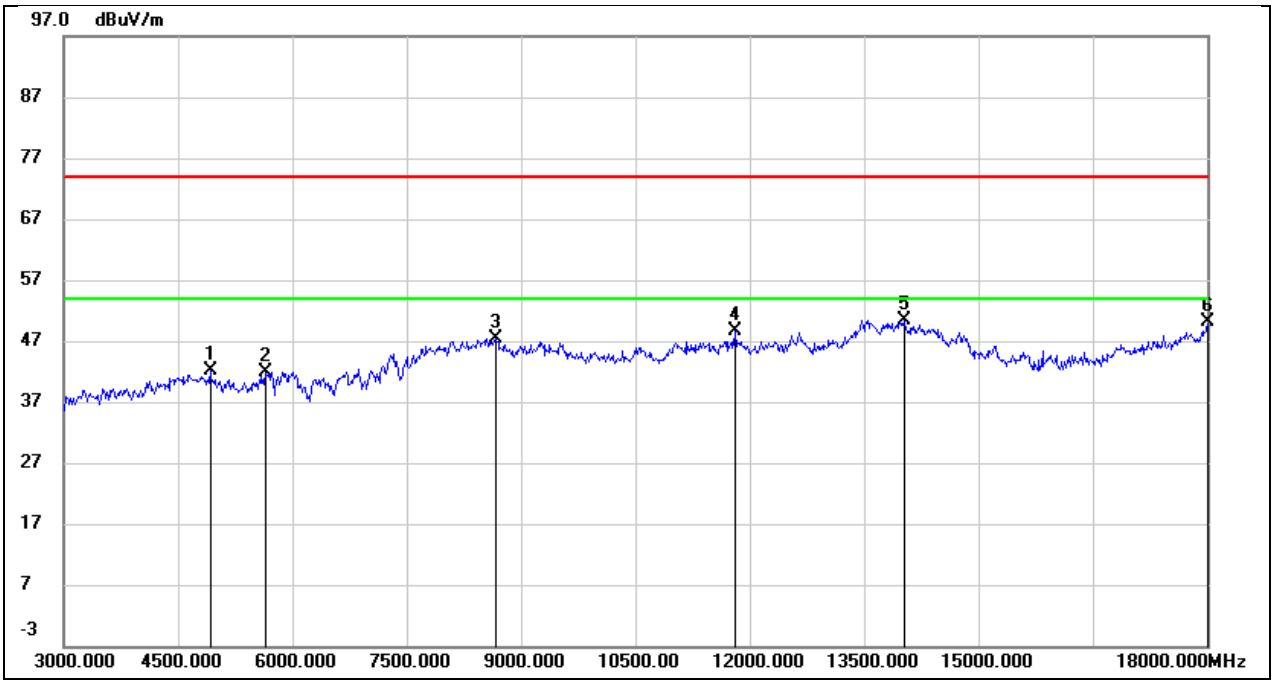
Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	41.16	0.86	42.02	74.00	-31.98	peak
2	5640.000	39.69	2.28	41.97	74.00	-32.03	peak
3	8670.000	37.97	9.37	47.34	74.00	-26.66	peak
4	11805.000	30.25	18.45	48.70	74.00	-25.30	peak
5	14025.000	26.42	24.02	50.44	74.00	-23.56	peak
6	18000.000	21.54	28.54	50.08	74.00	-23.92	peak

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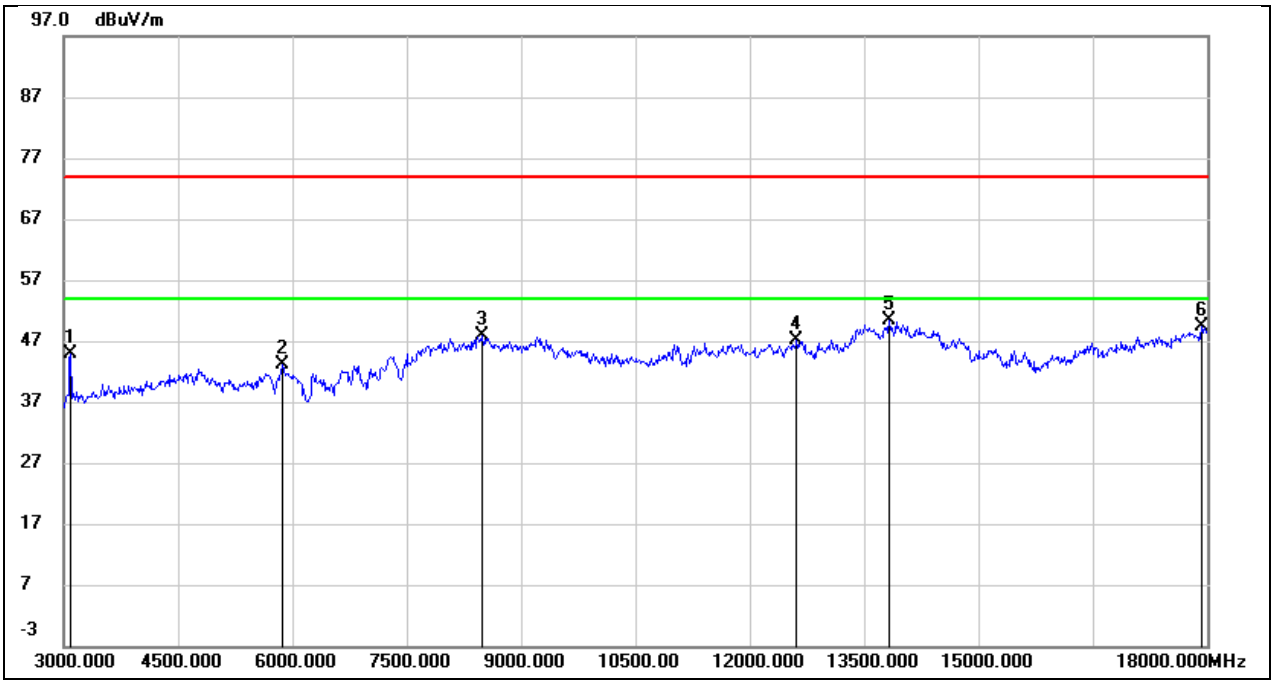
Test Mode:	802.11n HT20	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3090.000	49.43	-4.56	44.87	74.00	-29.13	peak
2	5865.000	40.41	2.69	43.10	74.00	-30.90	peak
3	8490.000	38.87	9.01	47.88	74.00	-26.12	peak
4	12615.000	27.37	19.72	47.09	74.00	-26.91	peak
5	13830.000	26.88	23.39	50.27	74.00	-23.73	peak
6	17925.000	21.43	27.87	49.30	74.00	-24.70	peak

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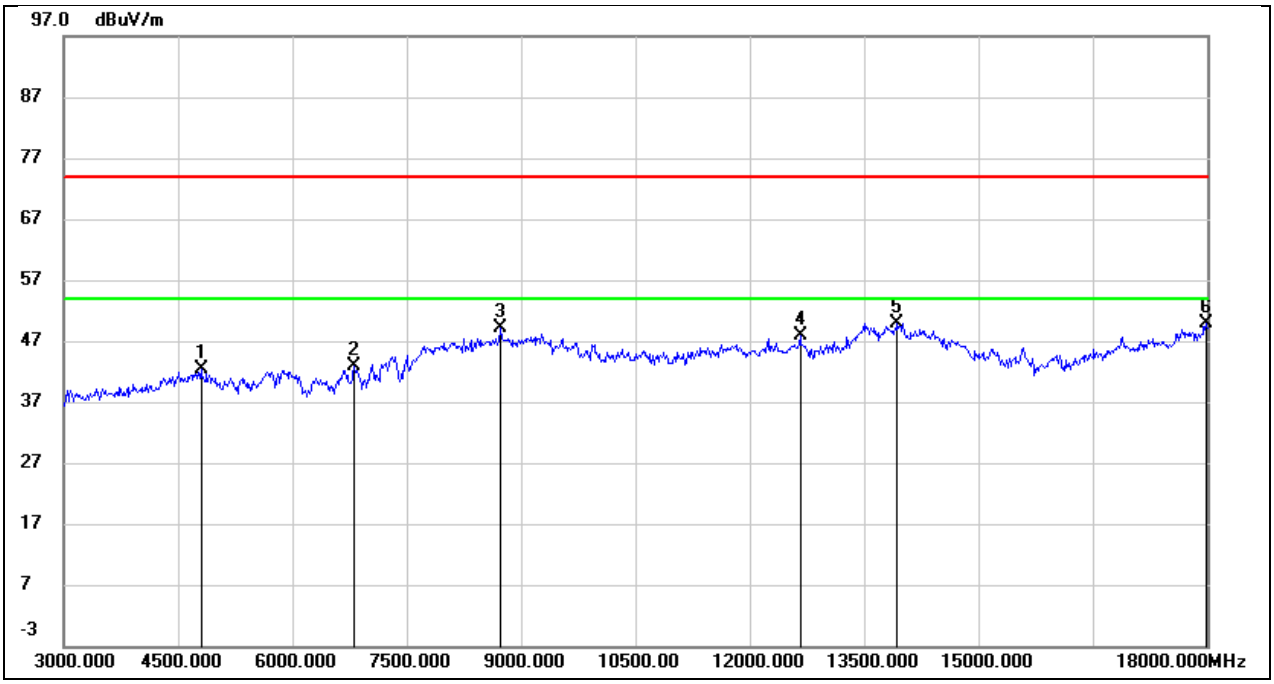
Test Mode:	802.11n HT20	Frequency(MHz):	2472
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	41.81	0.57	42.38	74.00	-31.62	peak
2	6810.000	36.95	5.97	42.92	74.00	-31.08	peak
3	8730.000	39.67	9.42	49.09	74.00	-24.91	peak
4	12660.000	28.07	19.80	47.87	74.00	-26.13	peak
5	13935.000	26.00	23.83	49.83	74.00	-24.17	peak
6	17985.000	21.35	28.41	49.76	74.00	-24.24	peak

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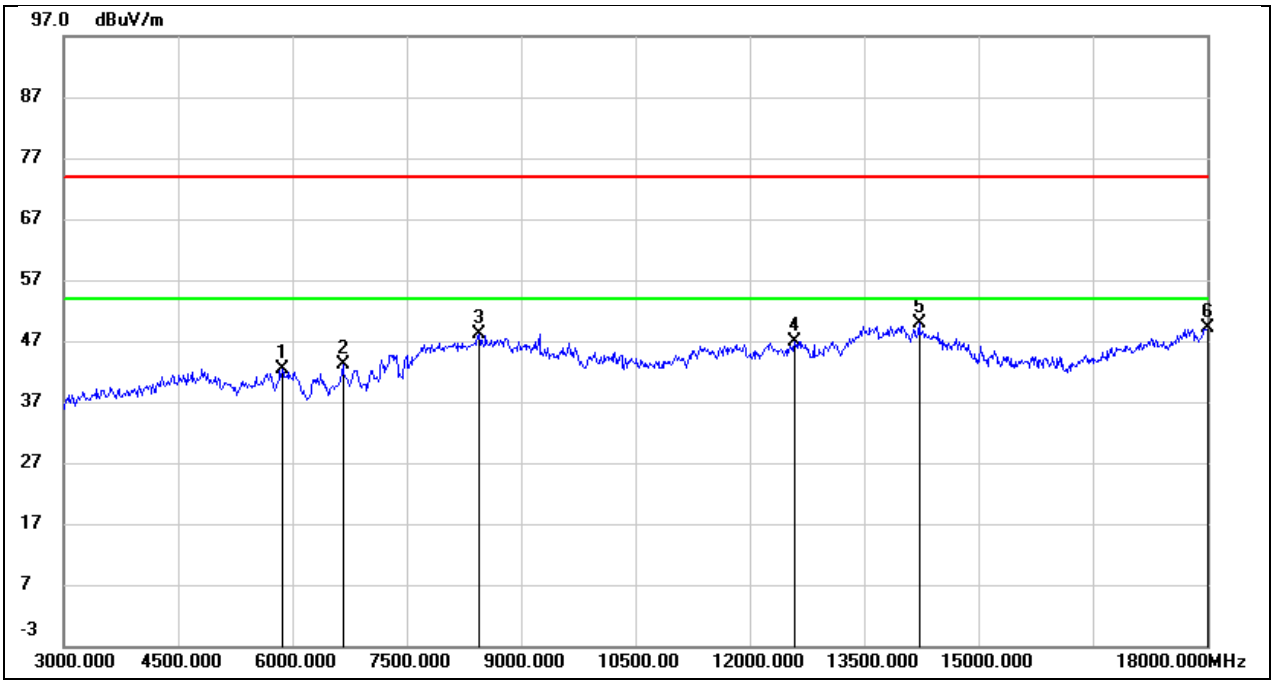
Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5865.000	39.72	2.69	42.41	74.00	-31.59	peak
2	6660.000	37.71	5.34	43.05	74.00	-30.95	peak
3	8445.000	39.27	8.96	48.23	74.00	-25.77	peak
4	12585.000	27.18	19.69	46.87	74.00	-27.13	peak
5	14220.000	26.45	23.37	49.82	74.00	-24.18	peak
6	18000.000	20.56	28.54	49.10	74.00	-24.90	peak

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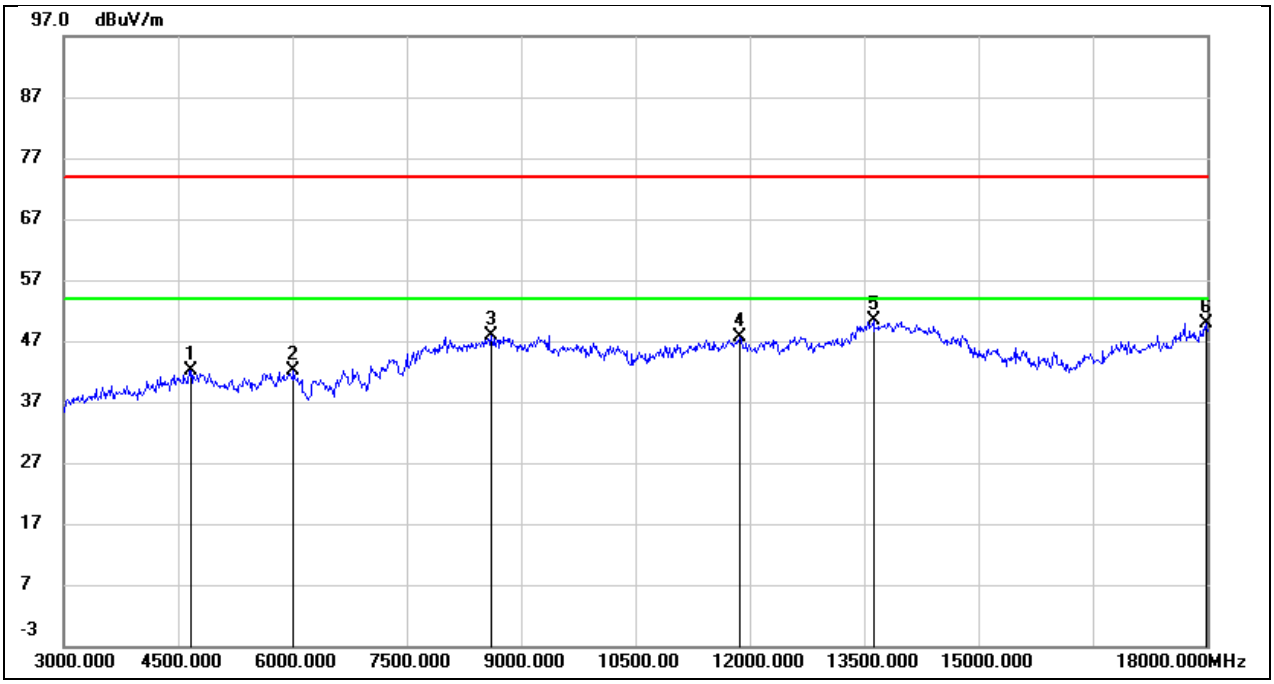
Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4665.000	41.95	0.16	42.11	74.00	-31.89	peak
2	6015.000	39.11	3.01	42.12	74.00	-31.88	peak
3	8610.000	38.64	9.30	47.94	74.00	-26.06	peak
4	11865.000	29.00	18.57	47.57	74.00	-26.43	peak
5	13620.000	27.47	23.03	50.50	74.00	-23.50	peak
6	17985.000	21.53	28.41	49.94	74.00	-24.06	peak

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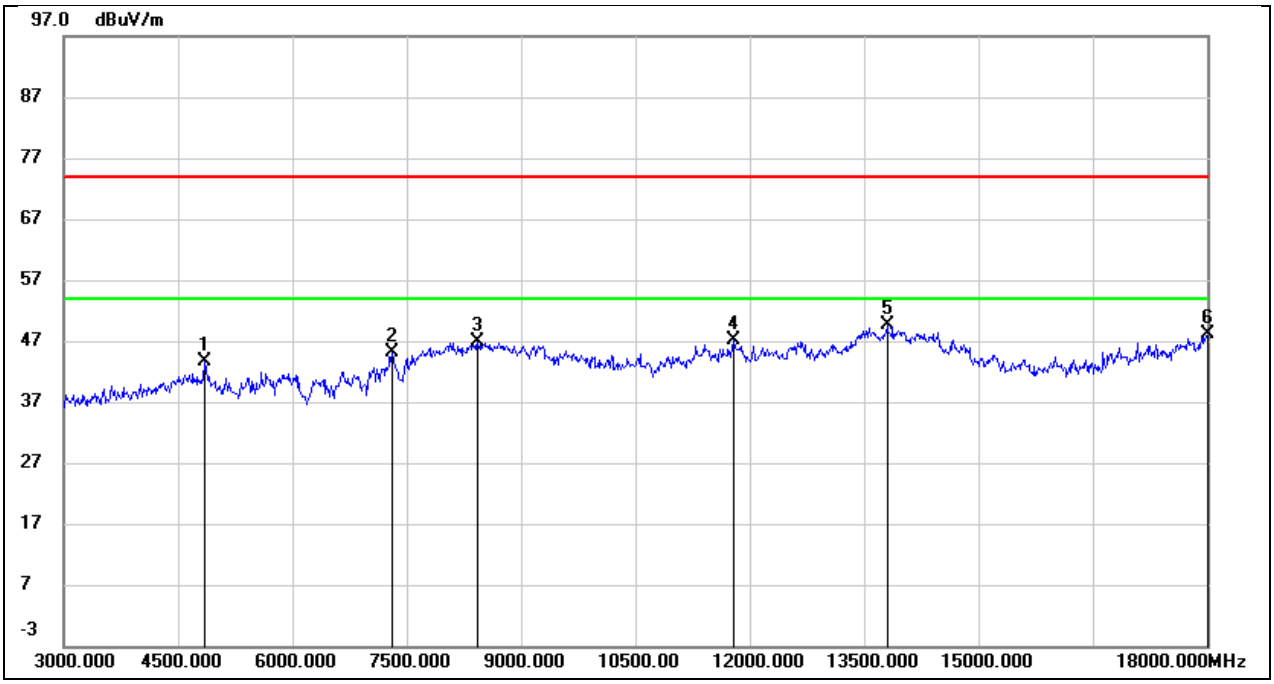
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	42.90	0.68	43.58	74.00	-30.42	peak
2	7305.000	38.33	6.88	45.21	74.00	-28.79	peak
3	8430.000	37.89	8.94	46.83	74.00	-27.17	peak
4	11790.000	28.81	18.41	47.22	74.00	-26.78	peak
5	13800.000	26.37	23.27	49.64	74.00	-24.36	peak
6	18000.000	19.53	28.54	48.07	74.00	-25.93	peak

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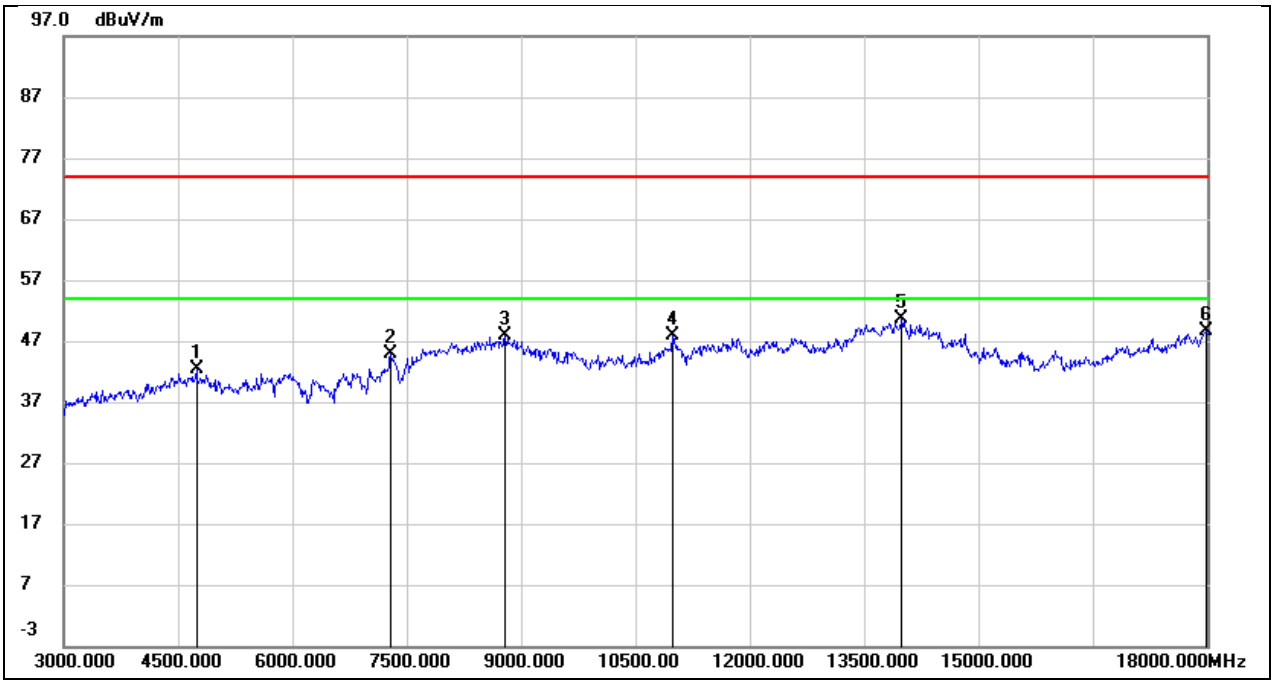
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4740.000	41.95	0.39	42.34	74.00	-31.66	peak
2	7290.000	37.89	6.88	44.77	74.00	-29.23	peak
3	8790.000	38.27	9.49	47.76	74.00	-26.24	peak
4	10980.000	31.75	16.25	48.00	74.00	-26.00	peak
5	13995.000	26.48	24.08	50.56	74.00	-23.44	peak
6	17985.000	20.24	28.41	48.65	74.00	-25.35	peak

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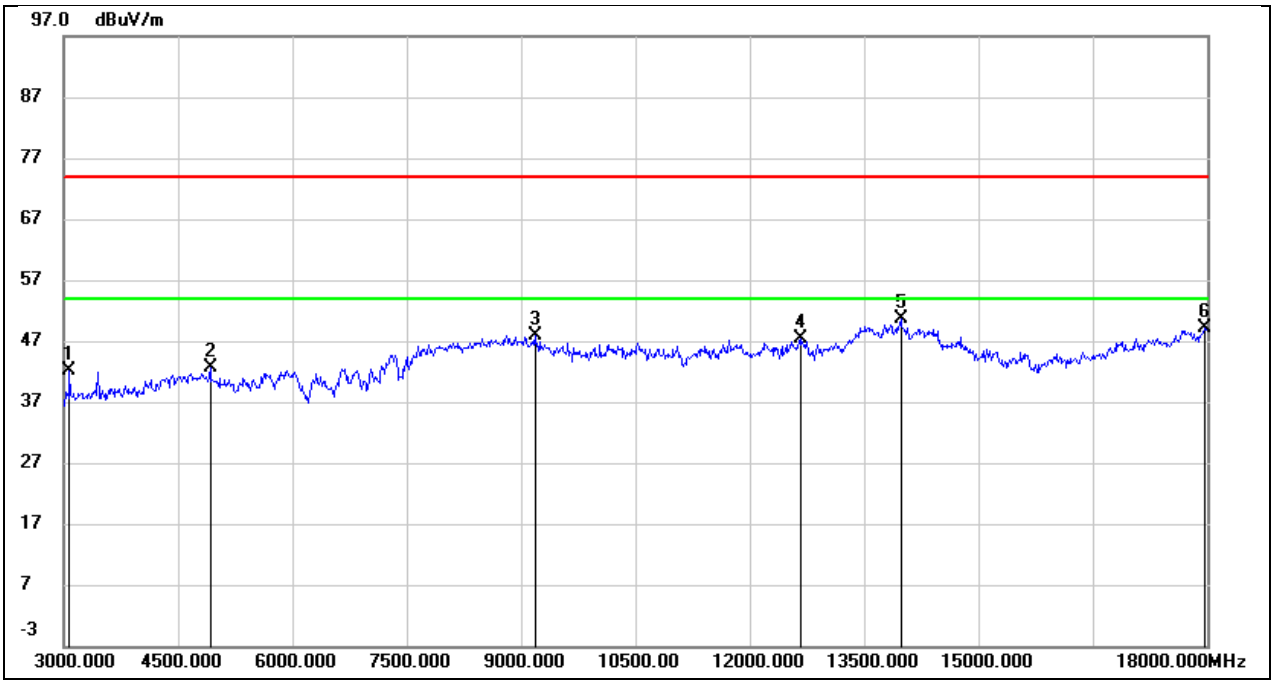
Test Mode:	802.11n HT40	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3075.000	46.66	-4.59	42.07	74.00	-31.93	peak
2	4920.000	41.80	0.86	42.66	74.00	-31.34	peak
3	9180.000	37.11	10.86	47.97	74.00	-26.03	peak
4	12660.000	27.54	19.80	47.34	74.00	-26.66	peak
5	13980.000	26.67	24.01	50.68	74.00	-23.32	peak
6	17970.000	20.91	28.27	49.18	74.00	-24.82	peak

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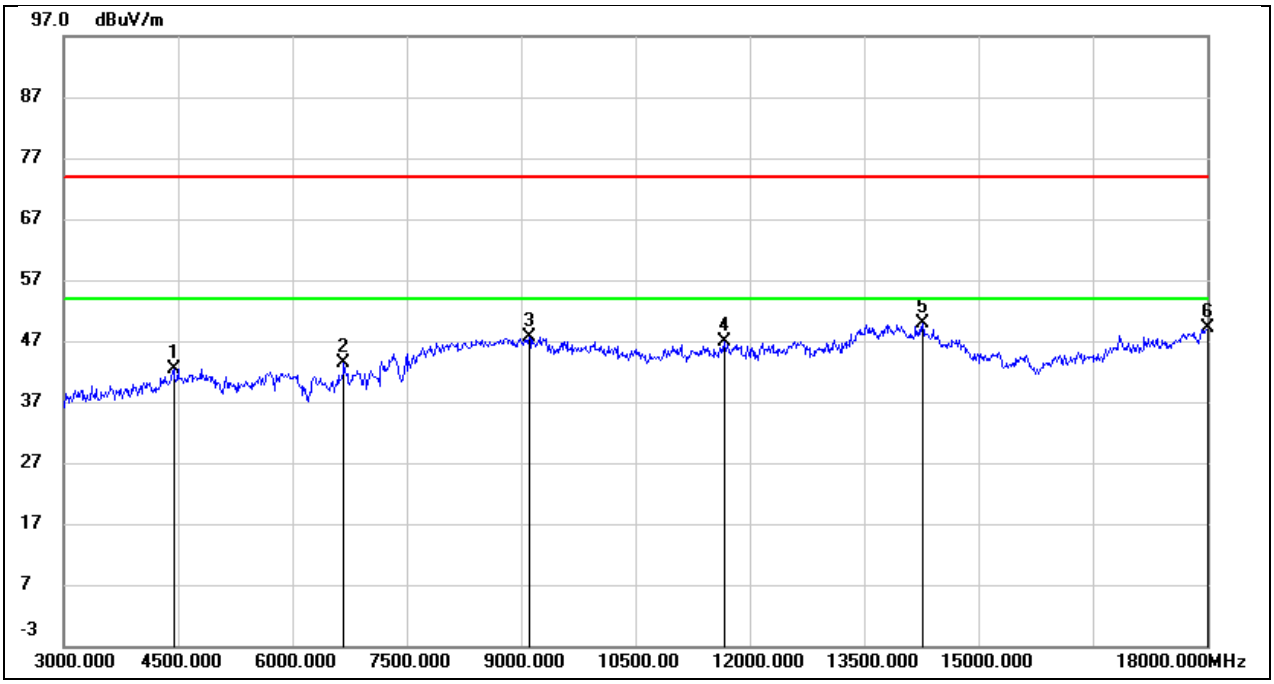
Test Mode:	802.11n HT40	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4440.000	42.95	-0.57	42.38	74.00	-31.62	peak
2	6675.000	37.93	5.40	43.33	74.00	-30.67	peak
3	9105.000	37.09	10.54	47.63	74.00	-26.37	peak
4	11670.000	28.78	18.11	46.89	74.00	-27.11	peak
5	14265.000	26.69	23.10	49.79	74.00	-24.21	peak
6	18000.000	20.61	28.54	49.15	74.00	-24.85	peak

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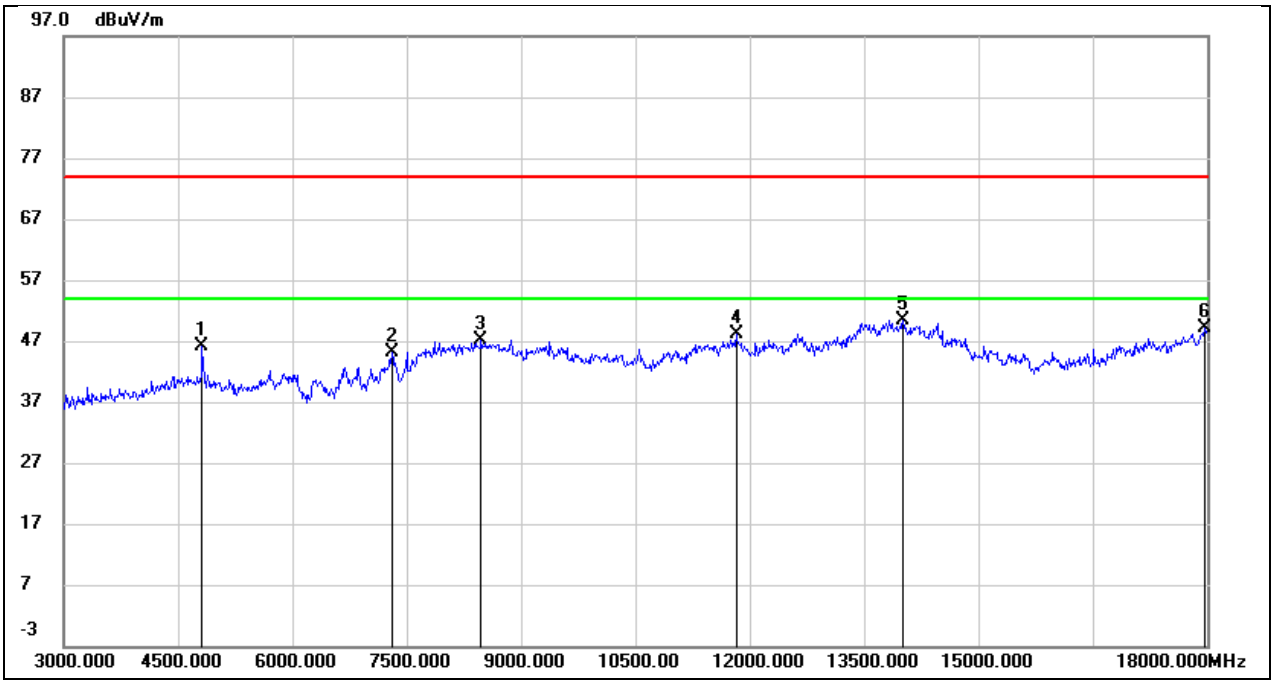
Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	45.42	0.60	46.02	74.00	-27.98	peak
2	7305.000	38.37	6.88	45.25	74.00	-28.75	peak
3	8475.000	38.17	8.98	47.15	74.00	-26.85	peak
4	11820.000	29.73	18.47	48.20	74.00	-25.80	peak
5	14010.000	26.39	24.07	50.46	74.00	-23.54	peak
6	17970.000	20.91	28.27	49.18	74.00	-24.82	peak

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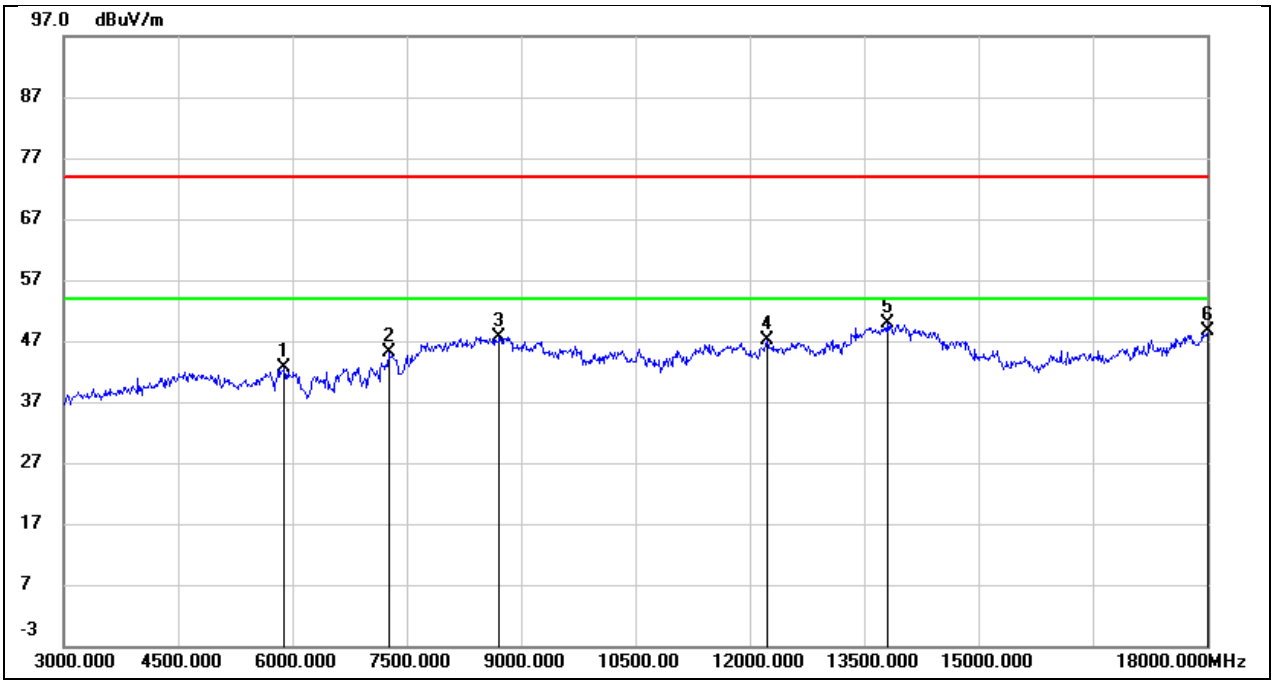
Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5895.000	39.98	2.74	42.72	74.00	-31.28	peak
2	7260.000	38.15	6.87	45.02	74.00	-28.98	peak
3	8715.000	38.33	9.41	47.74	74.00	-26.26	peak
4	12225.000	27.97	19.18	47.15	74.00	-26.85	peak
5	13800.000	26.61	23.27	49.88	74.00	-24.12	peak
6	18000.000	20.02	28.54	48.56	74.00	-25.44	peak

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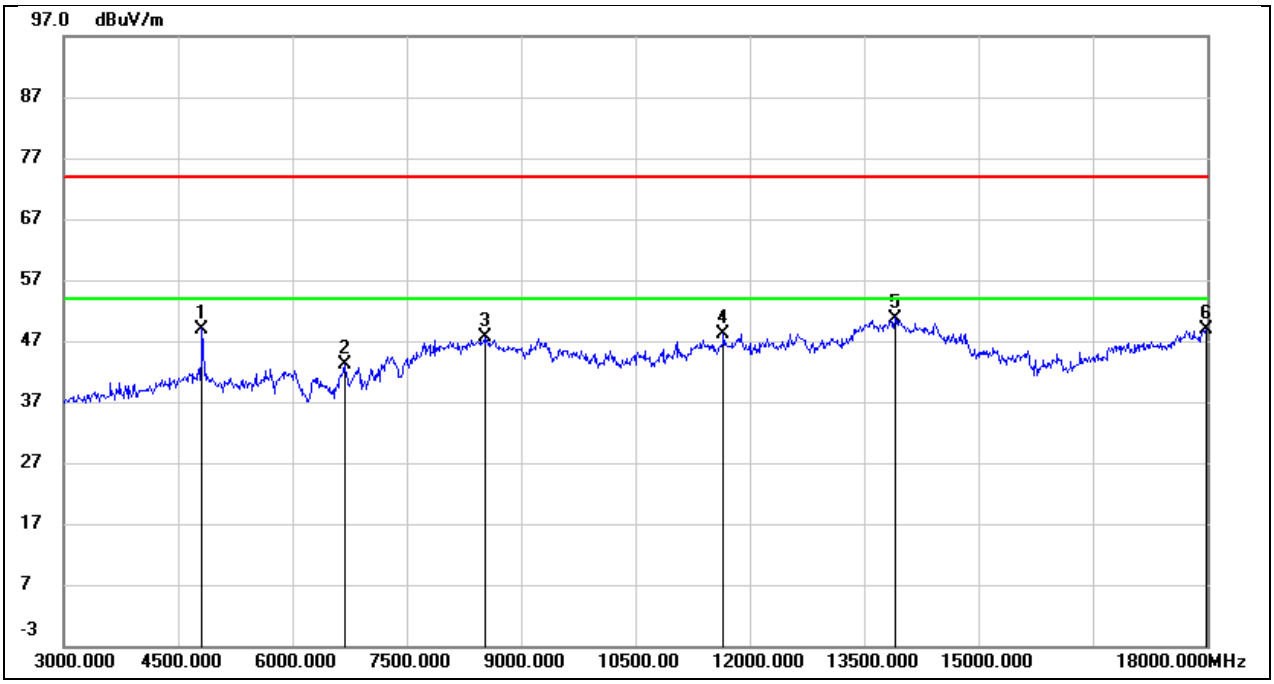
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.40	0.60	49.00	74.00	-25.00	peak
2	6690.000	37.74	5.46	43.20	74.00	-30.80	peak
3	8520.000	38.59	9.07	47.66	74.00	-26.34	peak
4	11655.000	30.13	18.08	48.21	74.00	-25.79	peak
5	13905.000	27.05	23.70	50.75	74.00	-23.25	peak
6	17985.000	20.43	28.41	48.84	74.00	-25.16	peak

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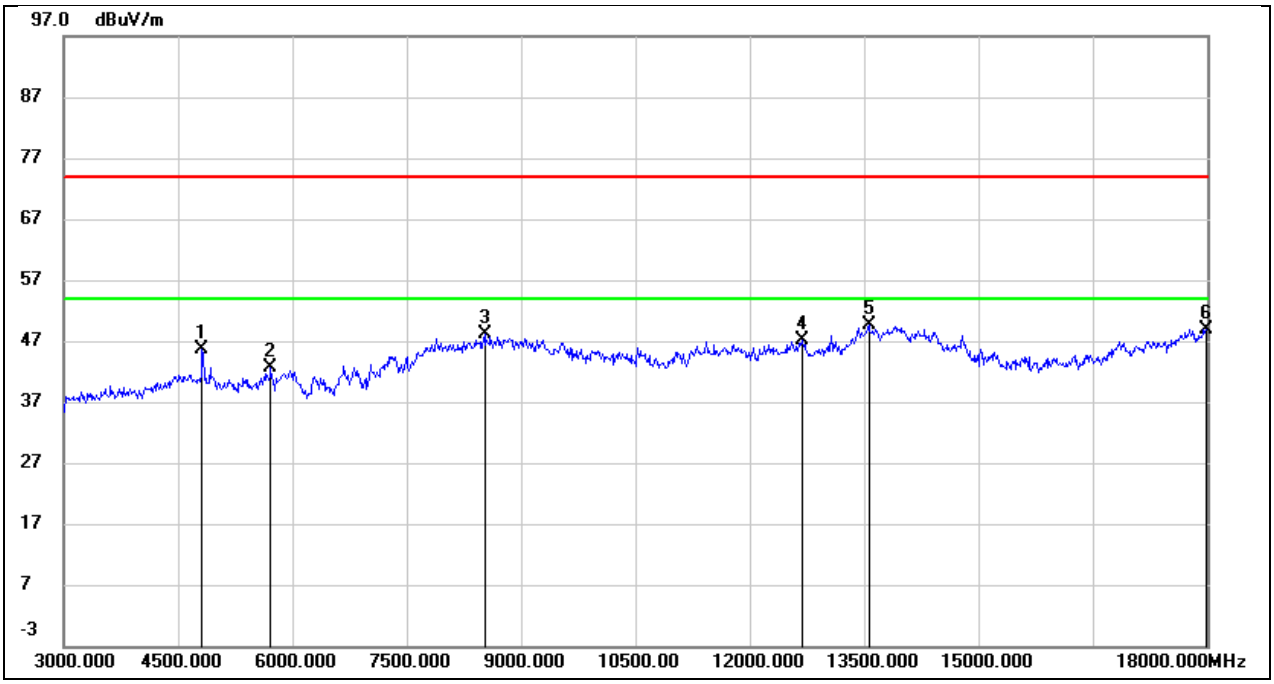
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	44.97	0.60	45.57	74.00	-28.43	peak
2	5715.000	40.21	2.41	42.62	74.00	-31.38	peak
3	8520.000	39.17	9.07	48.24	74.00	-25.76	peak
4	12690.000	27.20	19.85	47.05	74.00	-26.95	peak
5	13560.000	26.69	22.94	49.63	74.00	-24.37	peak
6	17985.000	20.59	28.41	49.00	74.00	-25.00	peak

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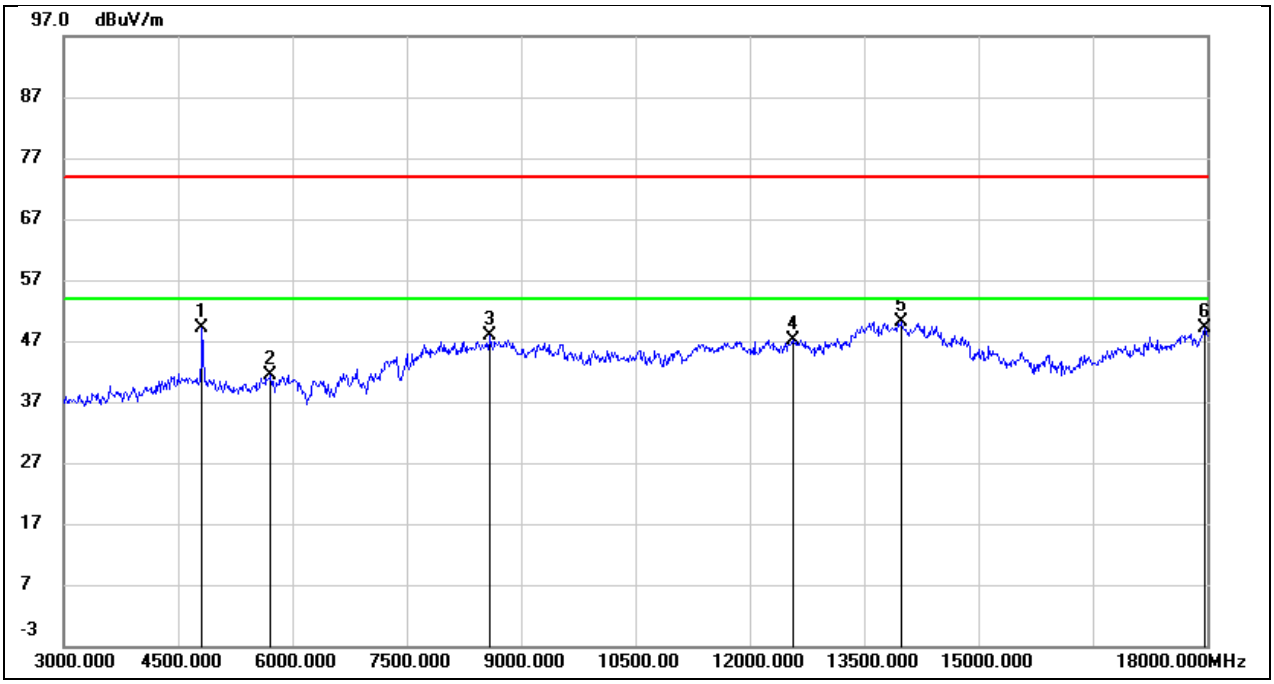
Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.42	0.60	49.02	74.00	-24.98	peak
2	5715.000	39.09	2.41	41.50	74.00	-32.50	peak
3	8595.000	38.53	9.27	47.80	74.00	-26.20	peak
4	12570.000	27.56	19.68	47.24	74.00	-26.76	peak
5	13995.000	26.00	24.08	50.08	74.00	-23.92	peak
6	17970.000	20.79	28.27	49.06	74.00	-24.94	peak

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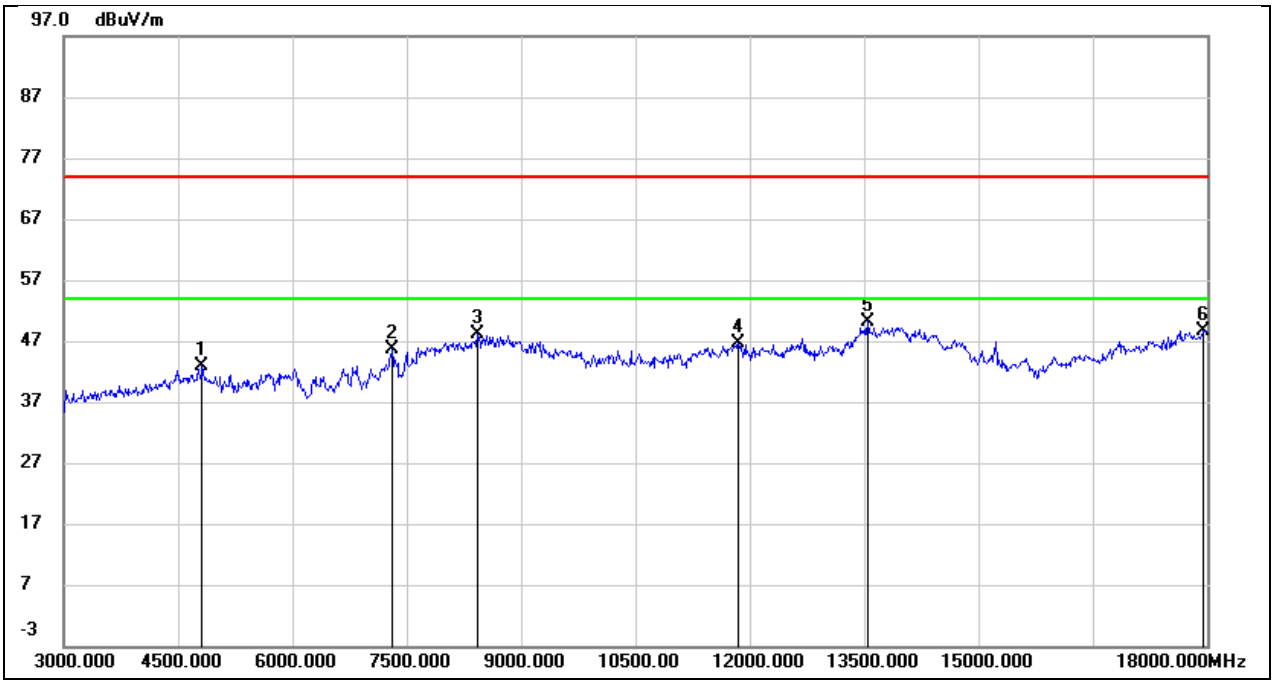
Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	42.22	0.60	42.82	74.00	-31.18	peak
2	7305.000	38.65	6.88	45.53	74.00	-28.47	peak
3	8430.000	39.12	8.94	48.06	74.00	-25.94	peak
4	11850.000	27.99	18.53	46.52	74.00	-27.48	peak
5	13545.000	27.34	22.91	50.25	74.00	-23.75	peak
6	17955.000	20.59	28.14	48.73	74.00	-25.27	peak

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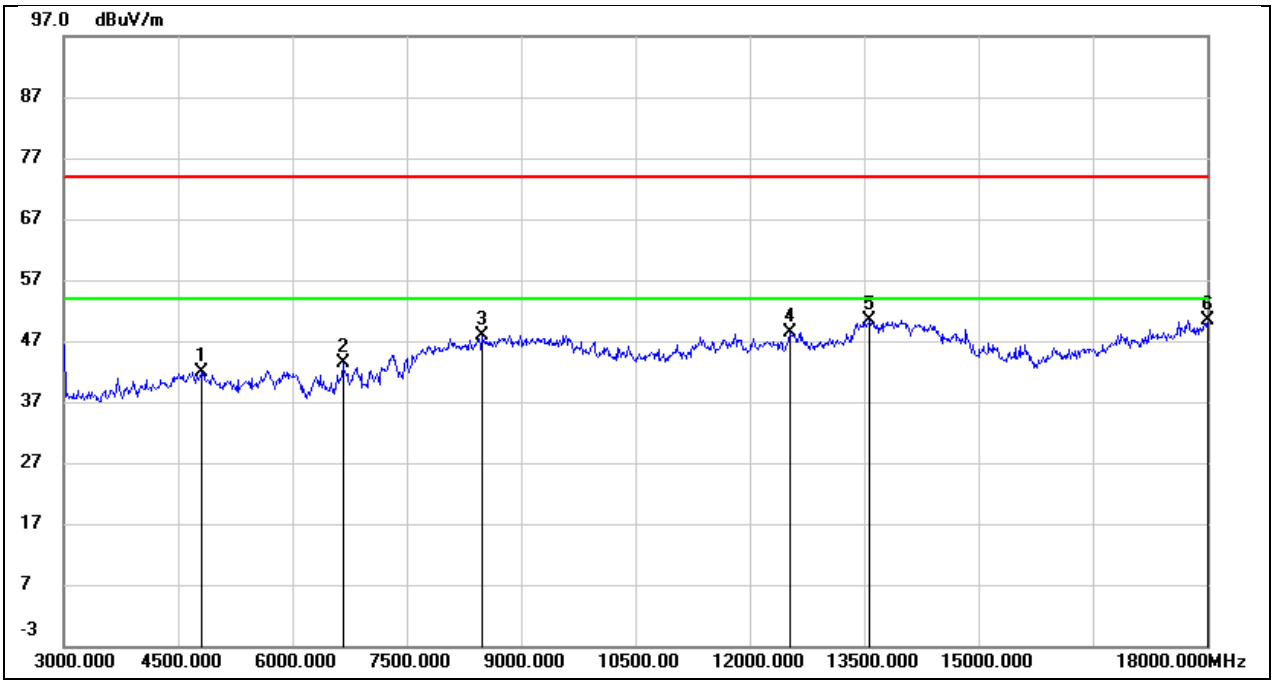
Test Mode:	802.11ax HE20	Frequency(MHz):	2472
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.37	0.60	41.97	74.00	-32.03	peak
2	6660.000	37.92	5.34	43.26	74.00	-30.74	peak
3	8490.000	38.98	9.01	47.99	74.00	-26.01	peak
4	12525.000	28.74	19.69	48.43	74.00	-25.57	peak
5	13575.000	27.48	22.97	50.45	74.00	-23.55	peak
6	18000.000	21.96	28.54	50.50	74.00	-23.50	peak

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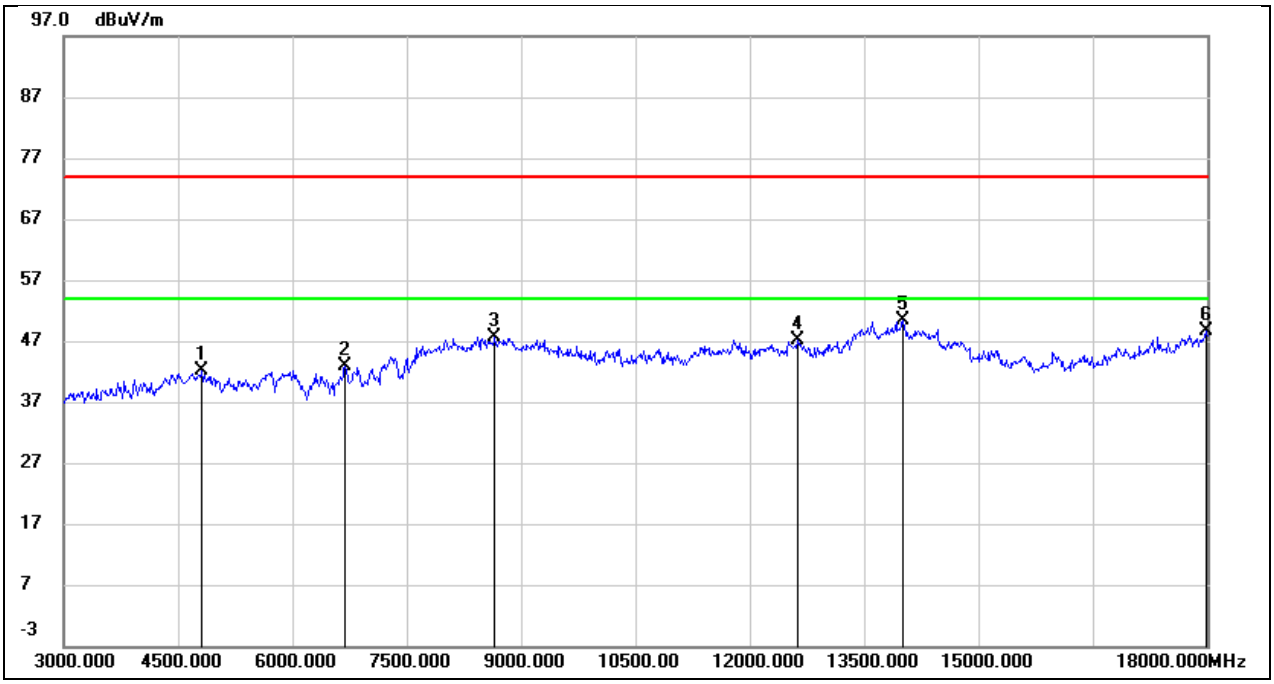
Test Mode:	802.11ax HE20	Frequency(MHz):	2472
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.53	0.60	42.13	74.00	-31.87	peak
2	6690.000	37.44	5.46	42.90	74.00	-31.10	peak
3	8655.000	38.34	9.34	47.68	74.00	-26.32	peak
4	12630.000	27.42	19.75	47.17	74.00	-26.83	peak
5	14010.000	26.24	24.07	50.31	74.00	-23.69	peak
6	17985.000	20.16	28.41	48.57	74.00	-25.43	peak

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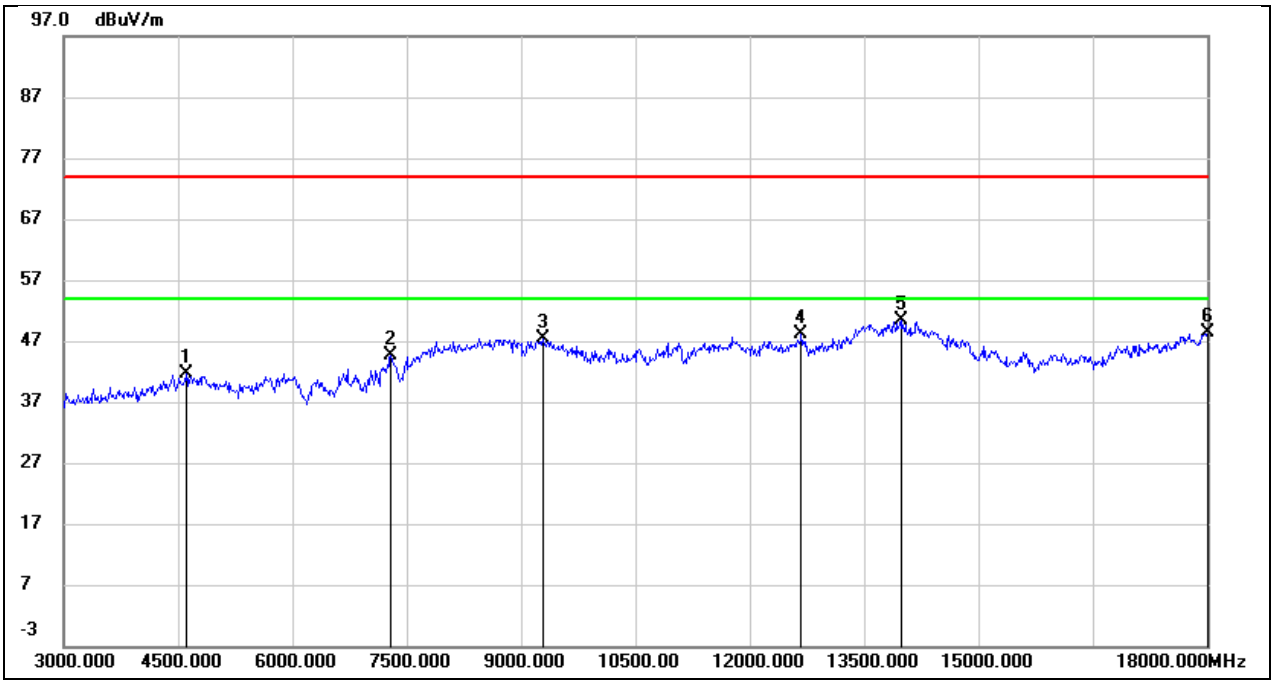
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4605.000	41.60	-0.01	41.59	74.00	-32.41	peak
2	7290.000	37.69	6.88	44.57	74.00	-29.43	peak
3	9285.000	36.19	11.29	47.48	74.00	-26.52	peak
4	12675.000	28.22	19.83	48.05	74.00	-25.95	peak
5	13980.000	26.27	24.01	50.28	74.00	-23.72	peak
6	18000.000	19.76	28.54	48.30	74.00	-25.70	peak

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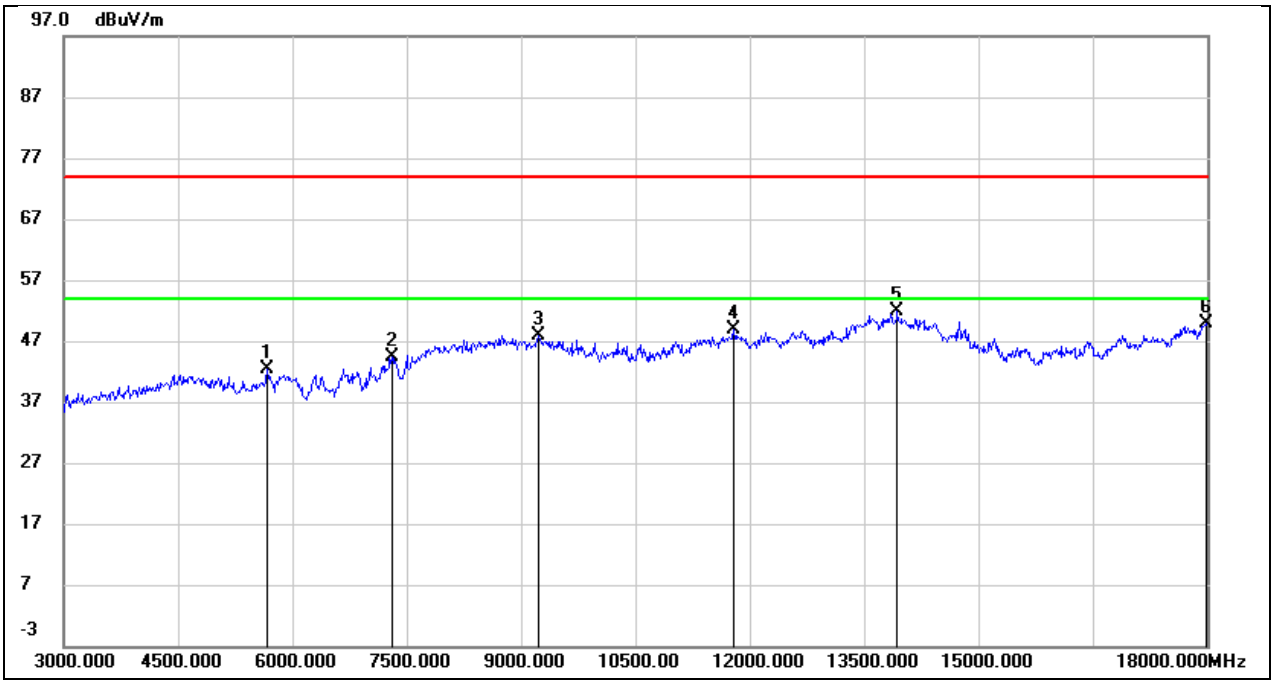
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5670.000	39.98	2.33	42.31	74.00	-31.69	peak
2	7305.000	37.57	6.88	44.45	74.00	-29.55	peak
3	9225.000	36.96	11.04	48.00	74.00	-26.00	peak
4	11790.000	30.42	18.41	48.83	74.00	-25.17	peak
5	13935.000	27.99	23.83	51.82	74.00	-22.18	peak
6	17985.000	21.42	28.41	49.83	74.00	-24.17	peak

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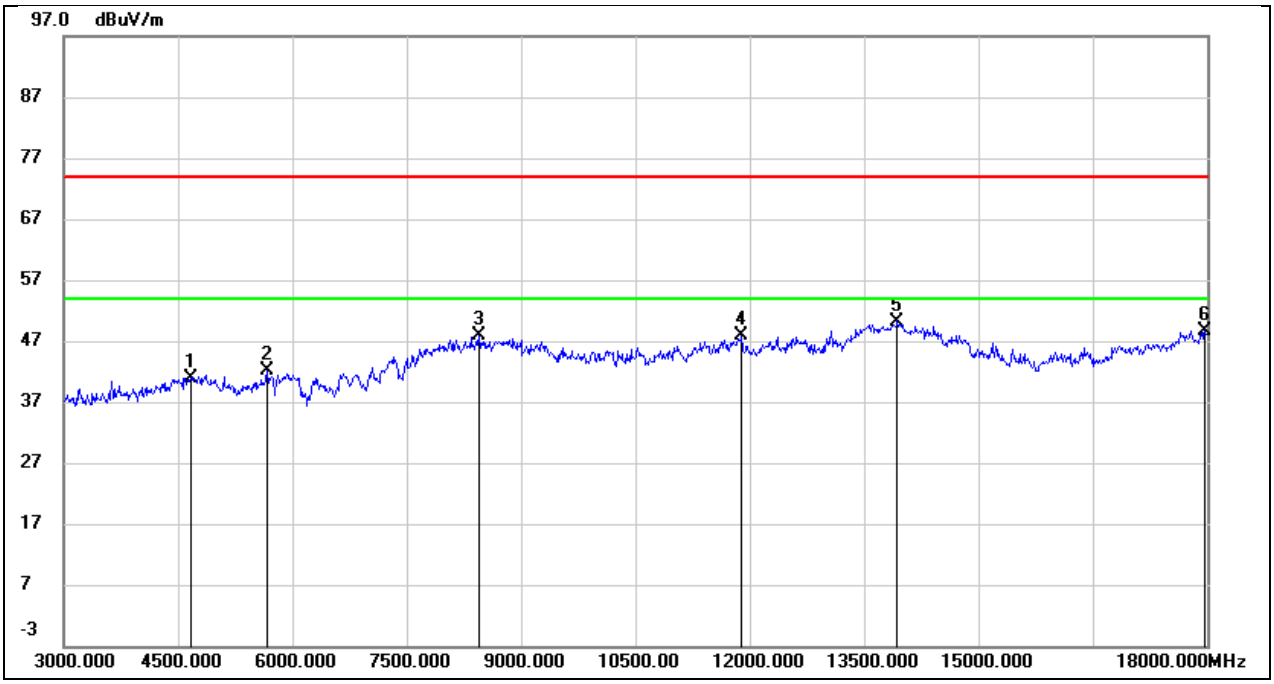
Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4665.000	40.75	0.16	40.91	74.00	-33.09	peak
2	5670.000	39.76	2.33	42.09	74.00	-31.91	peak
3	8445.000	38.92	8.96	47.88	74.00	-26.12	peak
4	11895.000	29.13	18.63	47.76	74.00	-26.24	peak
5	13935.000	26.42	23.83	50.25	74.00	-23.75	peak
6	17970.000	20.45	28.27	48.72	74.00	-25.28	peak

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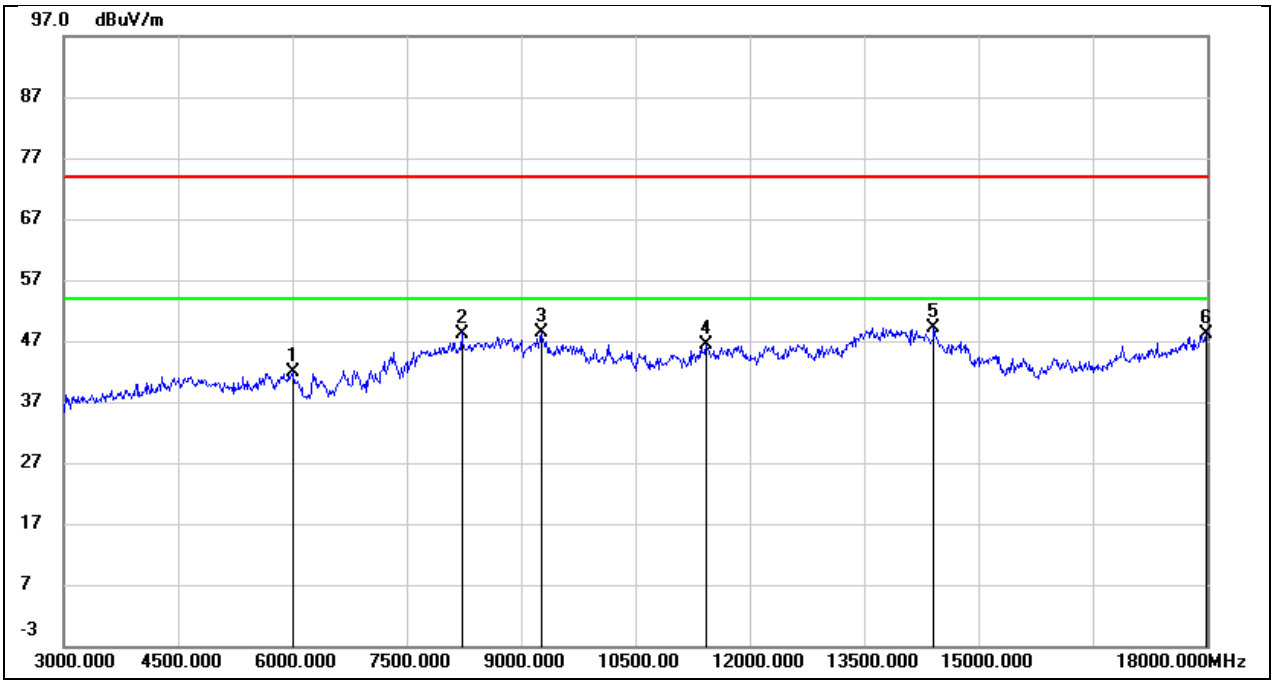
Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6000.000	38.87	2.93	41.80	74.00	-32.20	peak
2	8220.000	39.62	8.63	48.25	74.00	-25.75	peak
3	9270.000	37.09	11.23	48.32	74.00	-25.68	peak
4	11430.000	28.92	17.51	46.43	74.00	-27.57	peak
5	14415.000	26.92	22.20	49.12	74.00	-24.88	peak
6	17985.000	19.75	28.41	48.16	74.00	-25.84	peak

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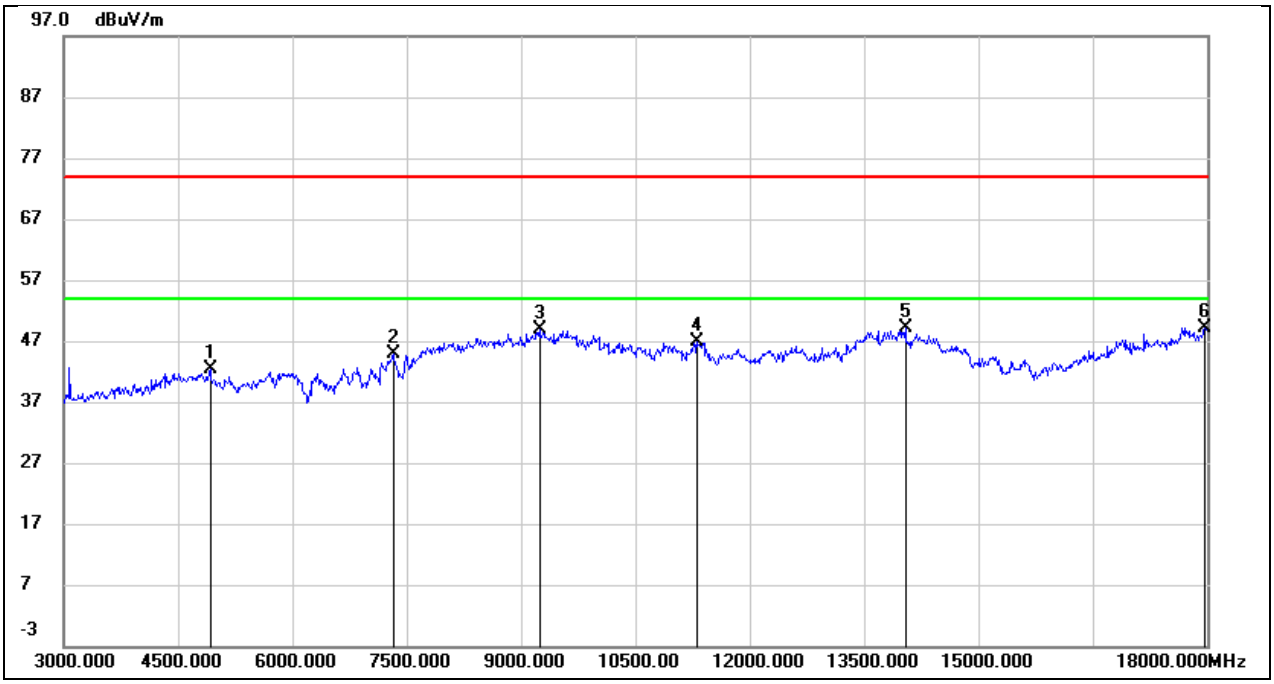
Test Mode:	802.11ax HE40	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	41.45	0.86	42.31	74.00	-31.69	peak
2	7320.000	37.97	6.89	44.86	74.00	-29.14	peak
3	9240.000	37.80	11.11	48.91	74.00	-25.09	peak
4	11310.000	29.47	17.36	46.83	74.00	-27.17	peak
5	14040.000	25.12	23.97	49.09	74.00	-24.91	peak
6	17970.000	20.97	28.27	49.24	74.00	-24.76	peak

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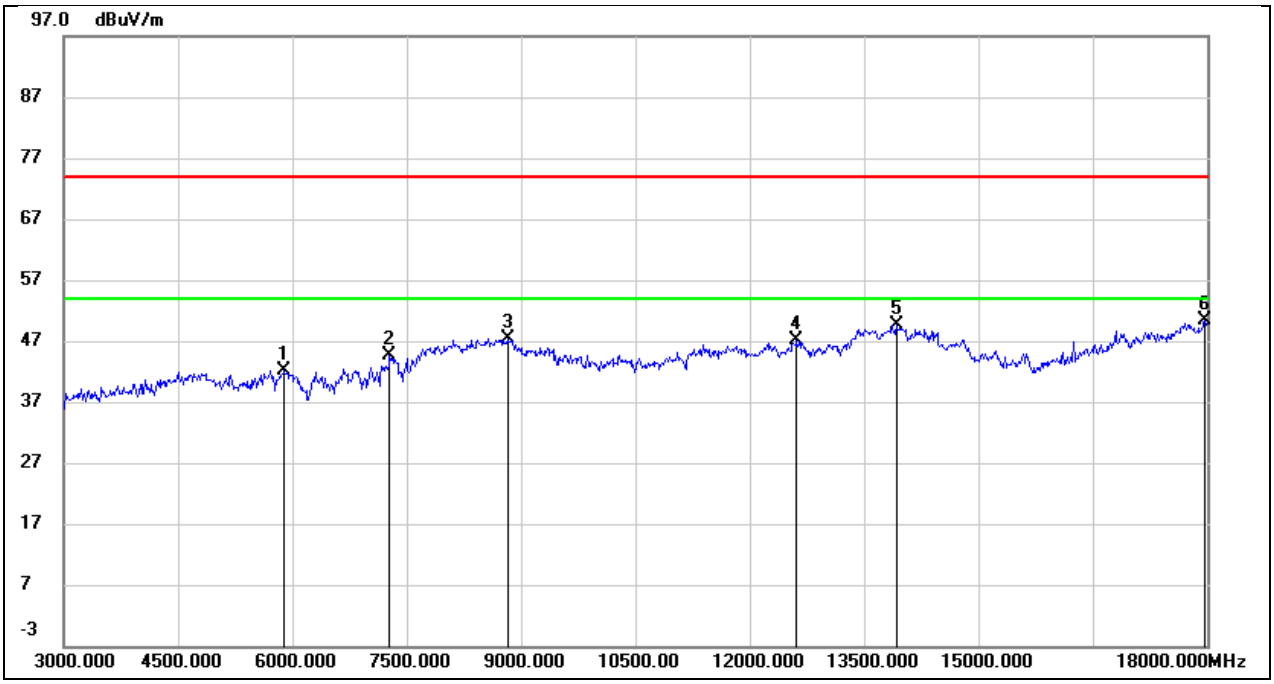
Test Mode:	802.11ax HE40	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5895.000	39.51	2.74	42.25	74.00	-31.75	peak
2	7275.000	37.78	6.88	44.66	74.00	-29.34	peak
3	8820.000	37.89	9.56	47.45	74.00	-26.55	peak
4	12615.000	27.44	19.72	47.16	74.00	-26.84	peak
5	13920.000	25.91	23.77	49.68	74.00	-24.32	peak
6	17970.000	22.11	28.27	50.38	74.00	-23.62	peak

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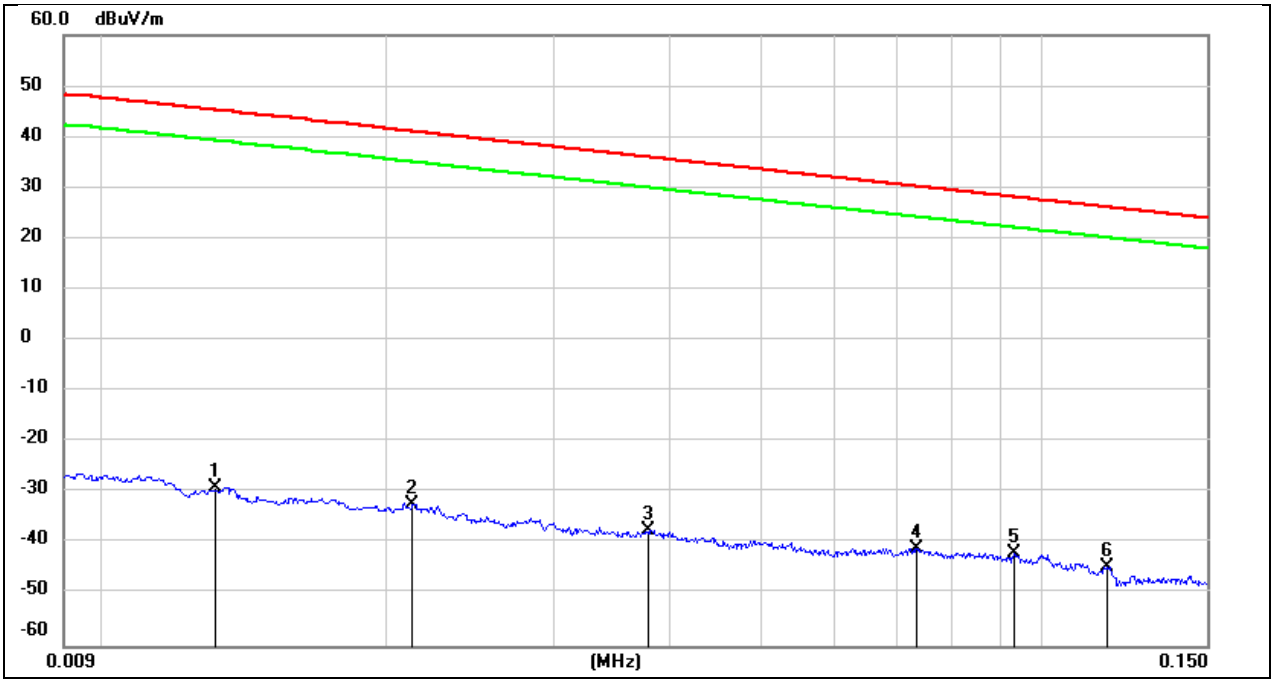
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0131	72.45	-101.38	-28.93	45.25	-74.18	peak
2	0.0212	69.04	-101.35	-32.31	41.07	-73.38	peak
3	0.0379	64.07	-101.42	-37.35	36.03	-73.38	peak
4	0.0734	60.70	-101.58	-40.88	30.29	-71.17	peak
5	0.0932	59.79	-101.74	-41.95	28.21	-70.16	peak
6	0.1174	57.33	-101.74	-44.41	26.21	-70.62	peak

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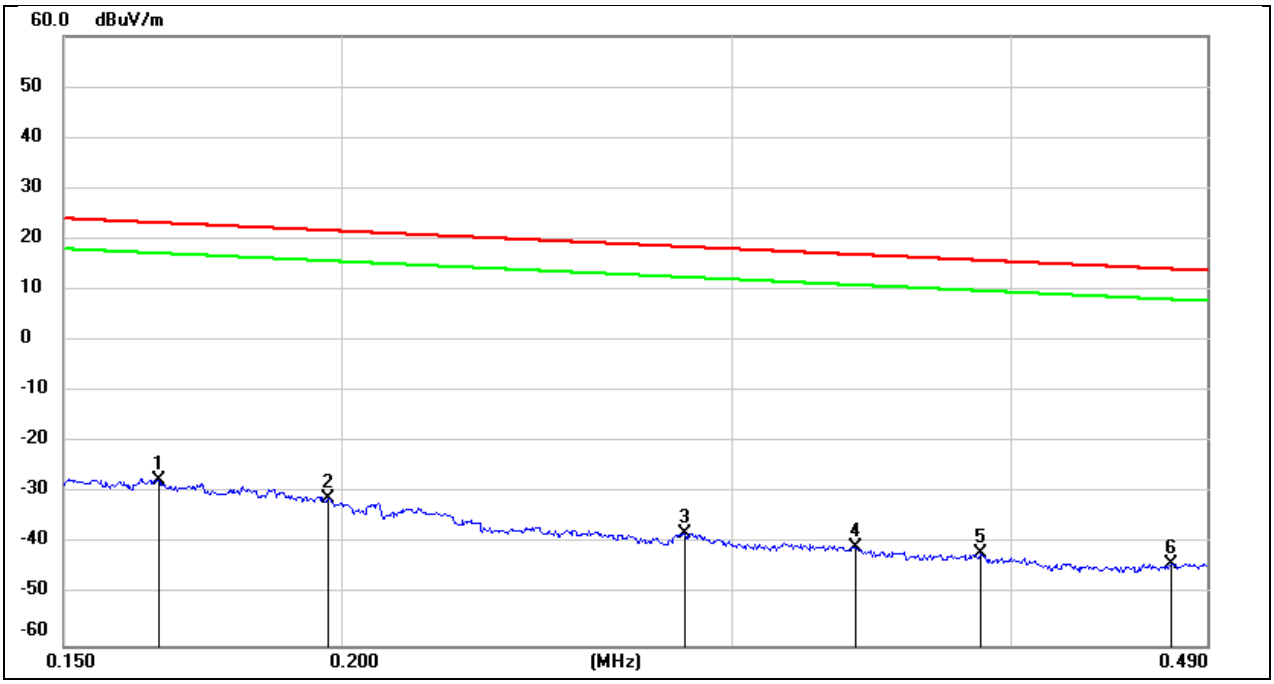
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1655	74.33	-101.66	-27.33	23.23	-50.56	peak
2	0.1973	70.64	-101.71	-31.07	21.70	-52.77	peak
3	0.2852	64.01	-101.83	-37.82	18.50	-56.32	peak
4	0.3407	61.12	-101.90	-40.78	16.95	-57.73	peak
5	0.3876	60.10	-101.95	-41.85	15.83	-57.68	peak
6	0.4717	58.13	-102.04	-43.91	14.13	-58.04	peak

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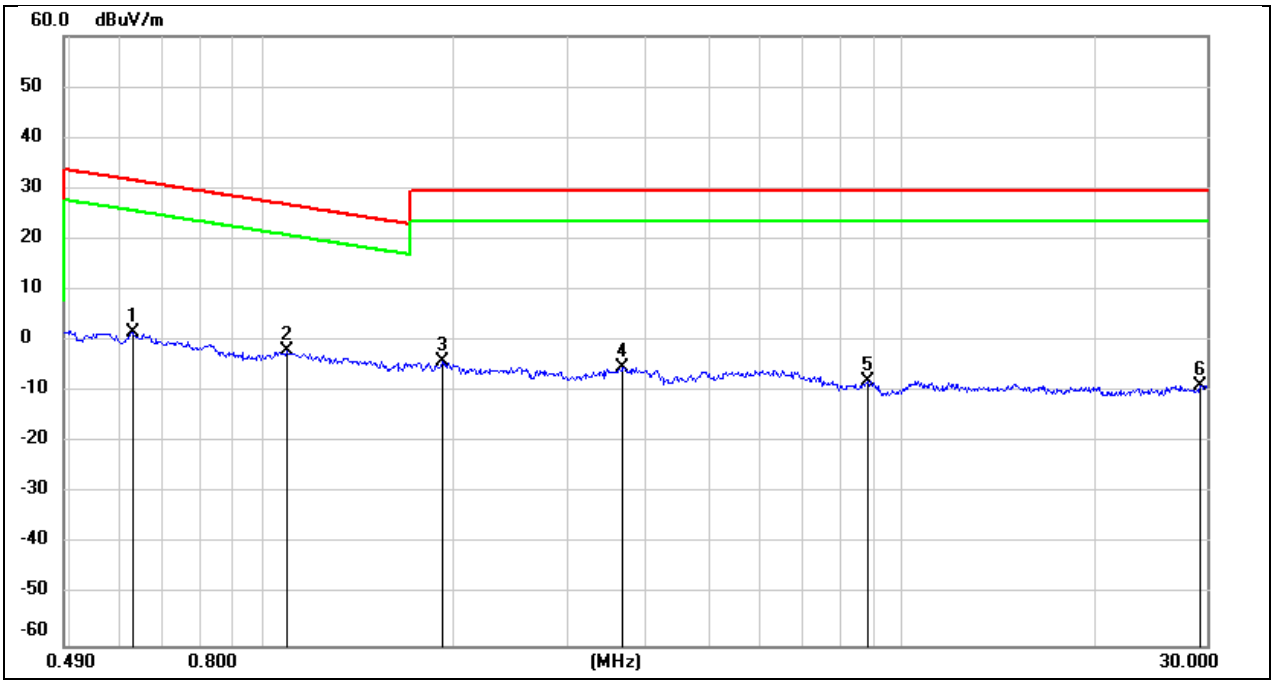
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.6298	63.67	-62.09	1.58	31.62	-30.04	peak
2	1.0927	60.28	-62.22	-1.94	26.84	-28.78	peak
3	1.9128	57.73	-61.87	-4.14	29.54	-33.68	peak
4	3.6770	56.04	-61.41	-5.37	29.54	-34.91	peak
5	8.8704	52.97	-60.96	-7.99	29.54	-37.53	peak
6	29.3213	51.30	-60.02	-8.72	29.54	-38.26	peak

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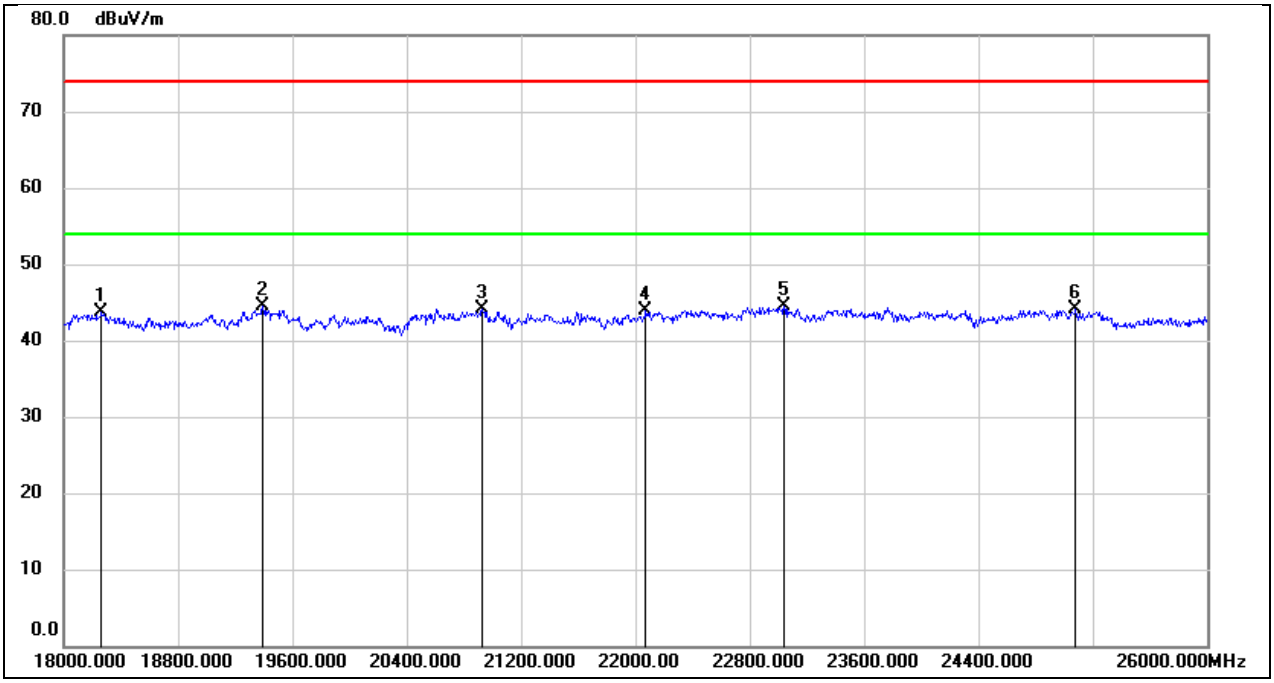
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18264.000	49.15	-5.53	43.62	74.00	-30.38	peak
2	19392.000	50.12	-5.57	44.55	74.00	-29.45	peak
3	20928.000	49.04	-4.95	44.09	74.00	-29.91	peak
4	22072.000	48.27	-4.41	43.86	74.00	-30.14	peak
5	23040.000	47.86	-3.43	44.43	74.00	-29.57	peak
6	25080.000	46.00	-1.96	44.04	74.00	-29.96	peak

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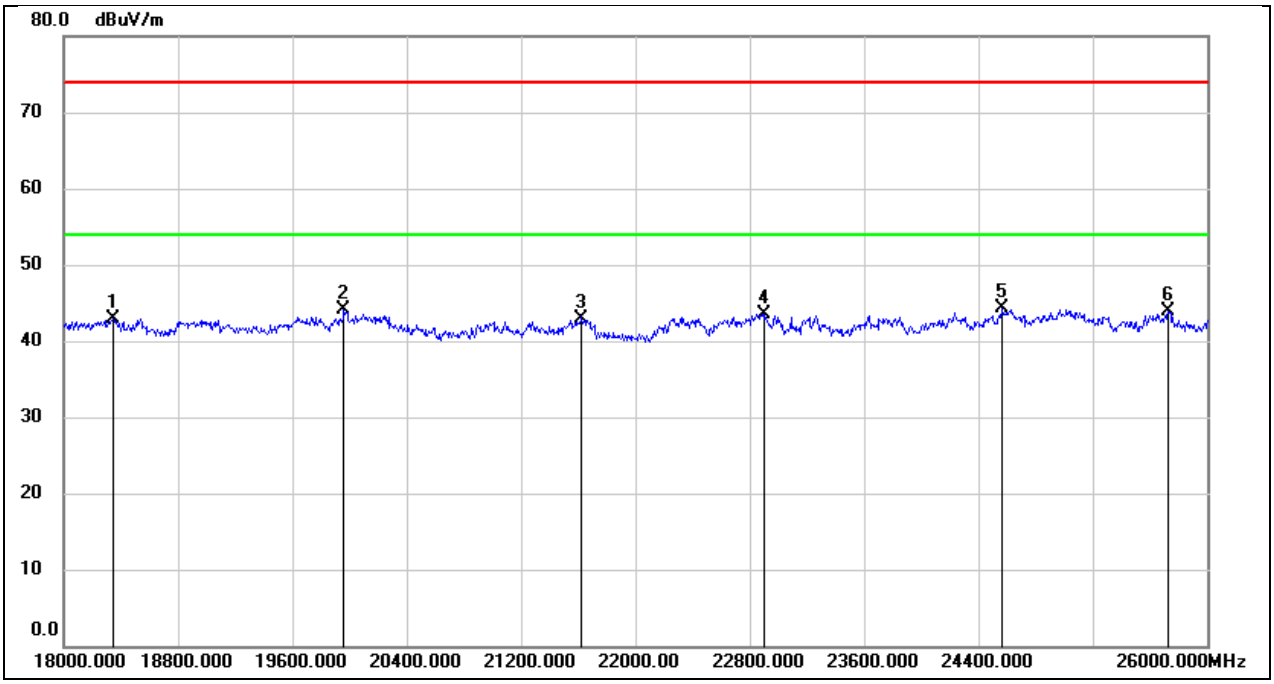
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18344.000	48.34	-5.44	42.90	74.00	-31.10	peak
2	19960.000	49.56	-5.42	44.14	74.00	-29.86	peak
3	21624.000	47.51	-4.51	43.00	74.00	-31.00	peak
4	22904.000	47.13	-3.54	43.59	74.00	-30.41	peak
5	24568.000	46.60	-2.33	44.27	74.00	-29.73	peak
6	25728.000	44.61	-0.72	43.89	74.00	-30.11	peak

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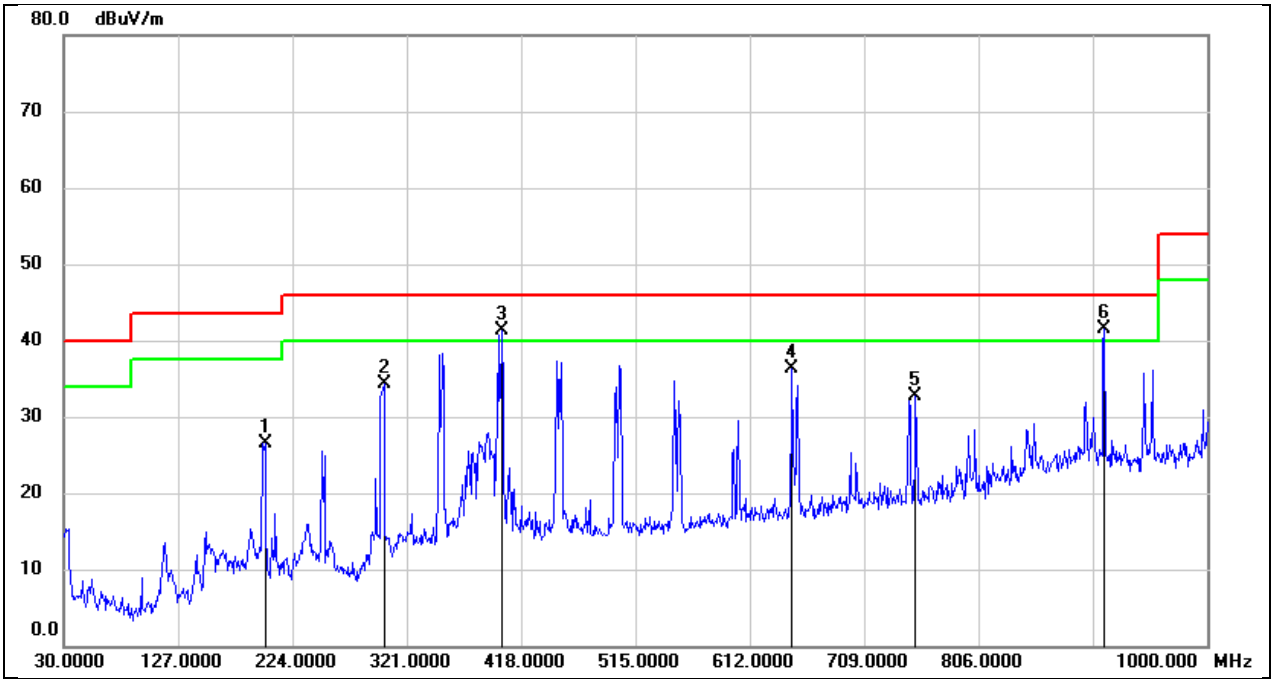
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	200.7200	38.83	-12.33	26.50	43.50	-17.00	QP
2	301.6000	45.81	-11.45	34.36	46.00	-11.64	QP
3	401.5100	50.77	-9.56	41.21	46.00	-4.79	QP
4	647.8900	41.98	-5.60	36.38	46.00	-9.62	QP
5	752.6500	36.13	-3.48	32.65	46.00	-13.35	QP
6	912.7000	41.95	-0.54	41.41	46.00	-4.59	QP

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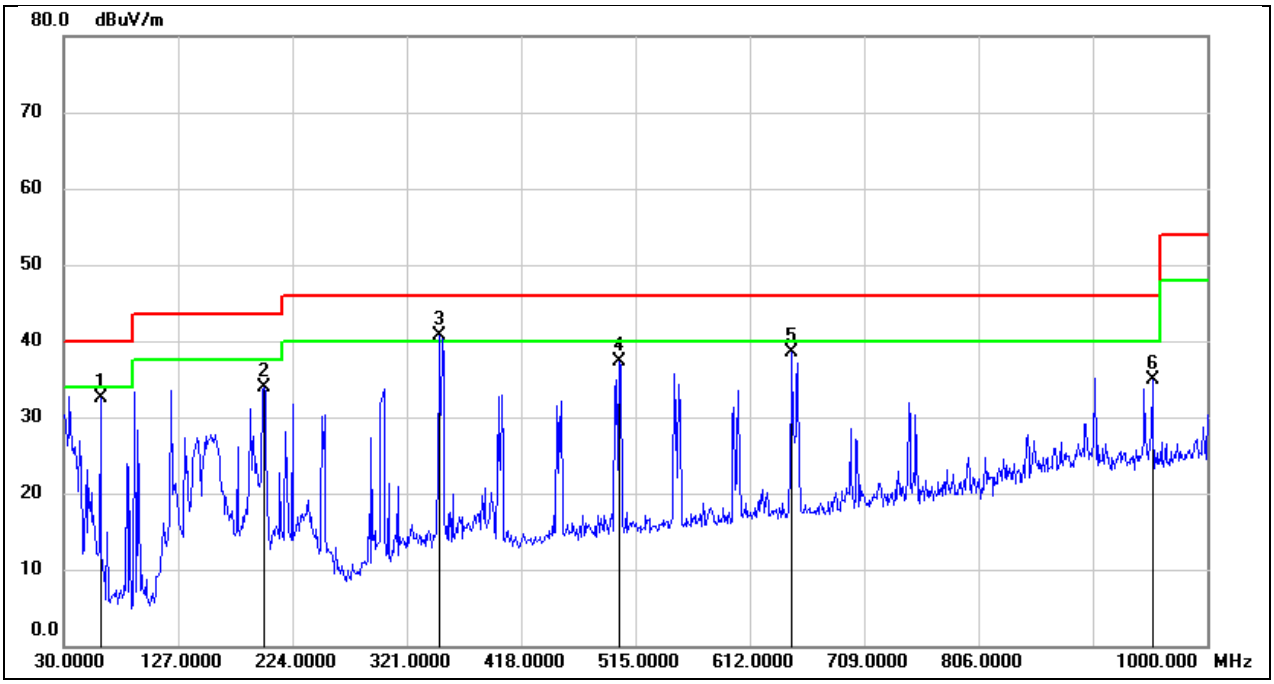
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	61.0400	47.44	-14.95	32.49	40.00	-7.51	QP
2	199.7500	46.22	-12.29	33.93	43.50	-9.57	QP
3	349.1300	50.17	-9.56	40.61	46.00	-5.39	QP
4	501.4200	44.99	-7.66	37.33	46.00	-8.67	QP
5	647.8900	44.11	-5.60	38.51	46.00	-7.49	QP
6	953.4400	35.74	-0.78	34.96	46.00	-11.04	QP

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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

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10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

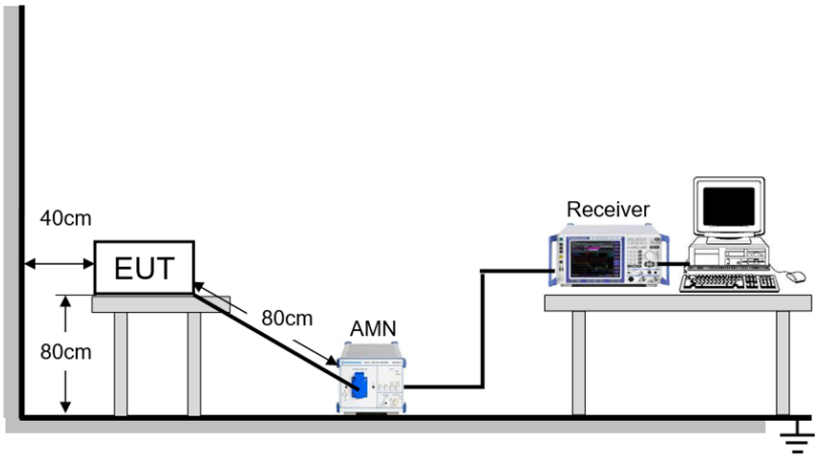
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.3℃	Relative Humidity	53.5%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

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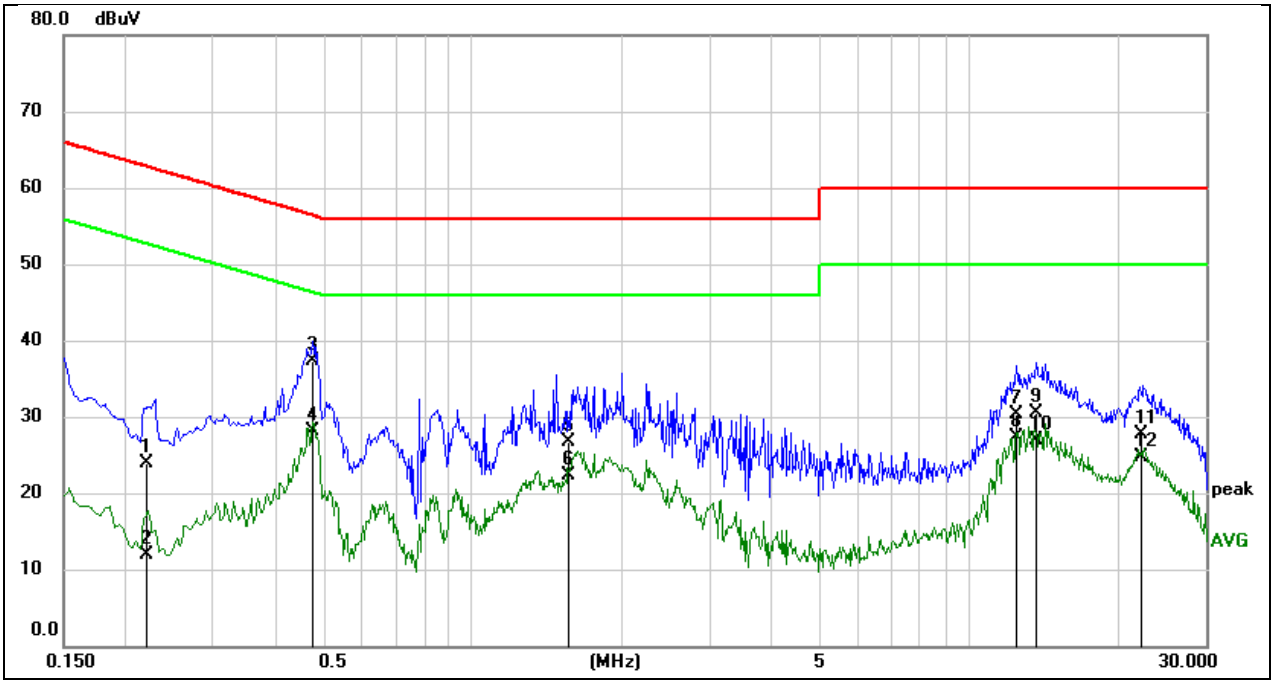
TEST DATE / ENGINEER

Test Date	June 11, 2025	Test By	Deacon Tan

TEST RESULTS

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Line		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2205	14.18	9.64	23.82	62.80	-38.98	QP
2	0.2205	2.24	9.64	11.88	52.80	-40.92	AVG
3	0.4782	27.73	9.64	37.37	56.37	-19.00	QP
4	0.4782	18.45	9.64	28.09	46.37	-18.28	AVG
5	1.5678	16.98	9.70	26.68	56.00	-29.32	QP
6	1.5678	12.64	9.70	22.34	46.00	-23.66	AVG
7	12.5029	20.53	9.73	30.26	60.00	-29.74	QP
8	12.5029	17.63	9.73	27.36	50.00	-22.64	AVG
9	13.6355	20.86	9.74	30.60	60.00	-29.40	QP
10	13.6355	17.21	9.74	26.95	50.00	-23.05	AVG
11	22.3601	18.00	9.72	27.72	60.00	-32.28	QP
12	22.3601	14.91	9.72	24.63	50.00	-25.37	AVG

Note:
1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

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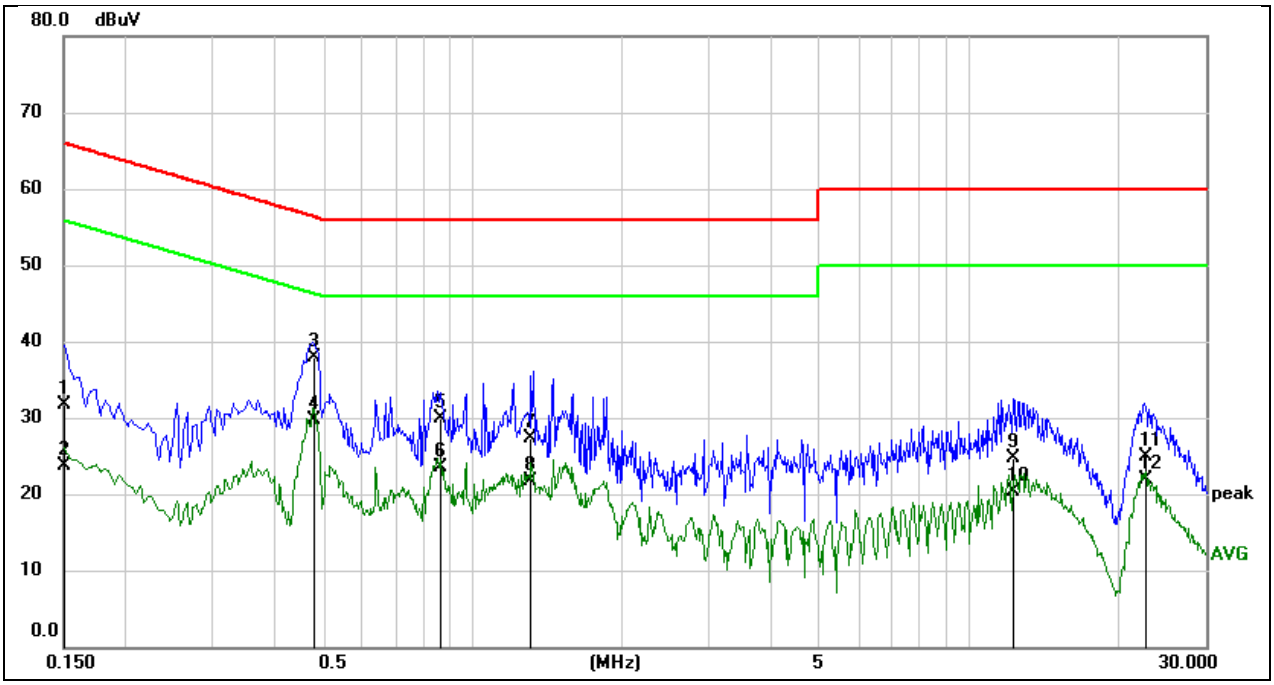
Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1508	22.13	9.64	31.77	65.96	-34.19	QP
2	0.1508	14.16	9.64	23.80	55.96	-32.16	AVG
3	0.4801	28.23	9.64	37.87	56.34	-18.47	QP
4	0.4801	20.11	9.64	29.75	46.34	-16.59	AVG
5	0.8601	20.22	9.63	29.85	56.00	-26.15	QP
6	0.8601	13.80	9.63	23.43	46.00	-22.57	AVG
7	1.3071	17.67	9.63	27.30	56.00	-28.70	QP
8	1.3071	12.07	9.63	21.70	46.00	-24.30	AVG
9	12.3124	15.07	9.73	24.80	60.00	-35.20	QP
10	12.3124	10.55	9.73	20.28	50.00	-29.72	AVG
11	22.6958	15.23	9.72	24.95	60.00	-35.05	QP
12	22.6958	12.13	9.72	21.85	50.00	-28.15	AVG

Note:
1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

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11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.00	2407.00	2417.00	≥0.5	PASS
		2437	9.56	2431.96	2441.52	≥0.5	PASS
		2462	10.04	2456.96	2467.00	≥0.5	PASS
		2472	10.04	2466.96	2477.00	≥0.5	PASS
11G	Ant1	2412	15.36	2404.40	2419.76	≥0.5	PASS
		2437	15.04	2429.44	2444.48	≥0.5	PASS
		2462	15.68	2454.20	2469.88	≥0.5	PASS
		2472	14.44	2465.08	2479.52	≥0.5	PASS
11N20SISO	Ant1	2412	15.32	2404.44	2419.76	≥0.5	PASS
		2437	15.08	2429.44	2444.52	≥0.5	PASS
		2462	16.92	2453.44	2470.36	≥0.5	PASS
		2472	15.04	2464.48	2479.52	≥0.5	PASS
11N40SISO	Ant1	2422	32.48	2405.76	2438.24	≥0.5	PASS
		2437	31.28	2420.76	2452.04	≥0.5	PASS
		2462	31.36	2445.68	2477.04	≥0.5	PASS
11AX20SISO	Ant1	2412	18.04	2403.16	2421.20	≥0.5	PASS
		2437	17.12	2428.28	2445.40	≥0.5	PASS
		2462	17.92	2452.96	2470.88	≥0.5	PASS
		2472	13.96	2465.12	2479.08	≥0.5	PASS
11AX40SISO	Ant1	2422	31.28	2405.76	2437.04	≥0.5	PASS
		2437	31.28	2420.76	2452.04	≥0.5	PASS
		2462	32.64	2445.68	2478.32	≥0.5	PASS

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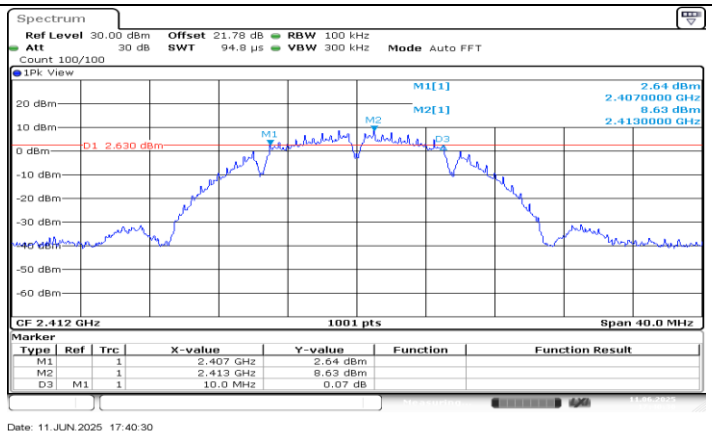
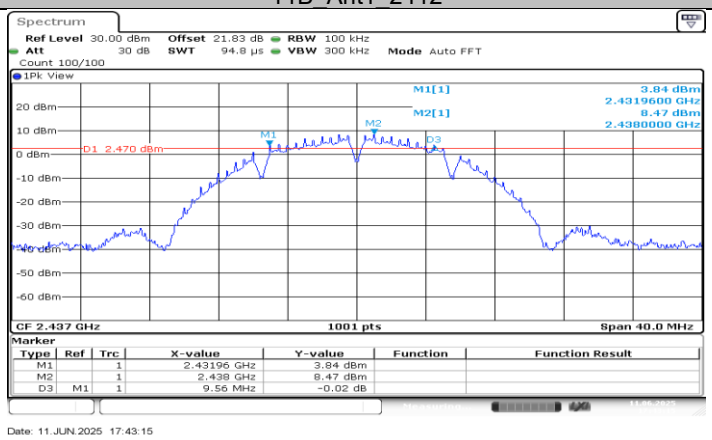
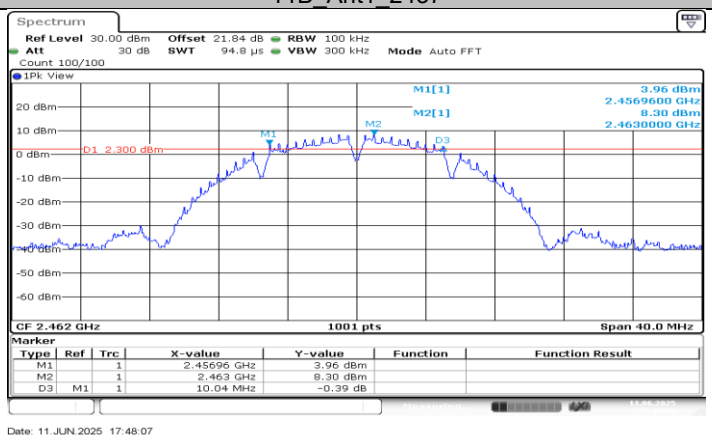
11.1.2. Test Graphs



11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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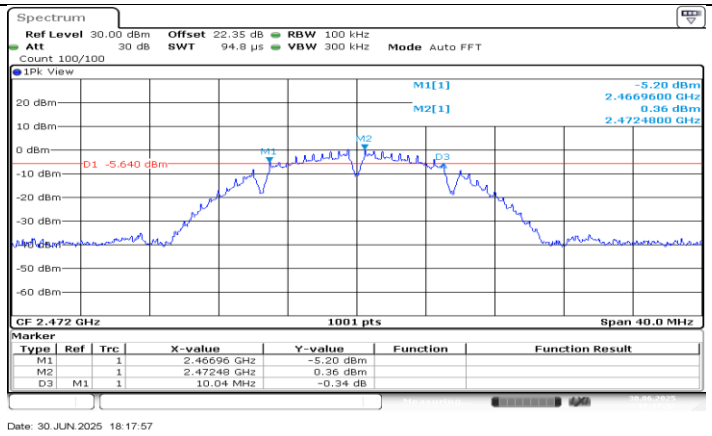
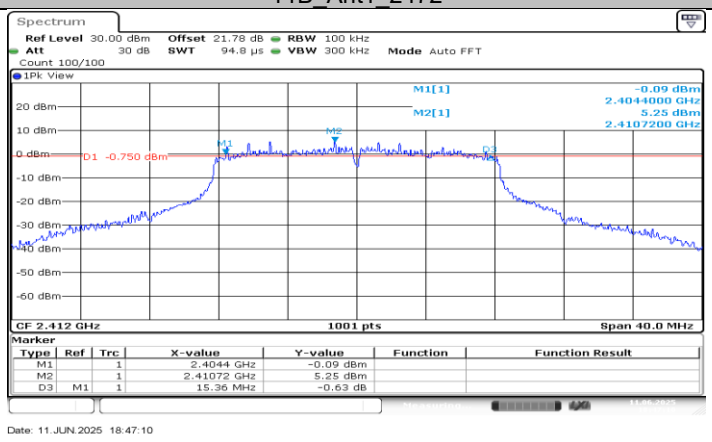


11B_Ant1_2472



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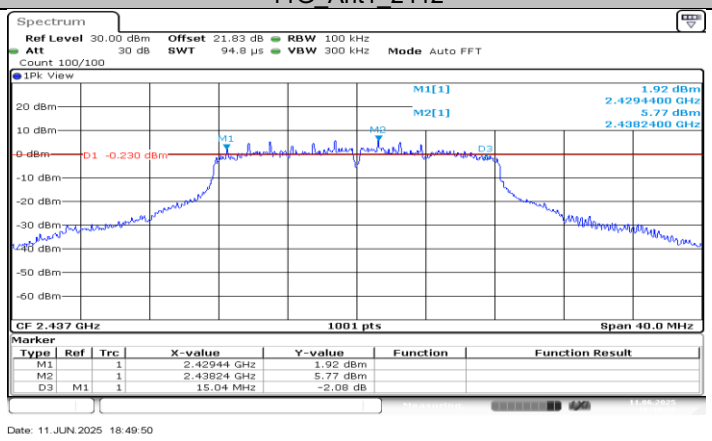

11G_Ant1_2437

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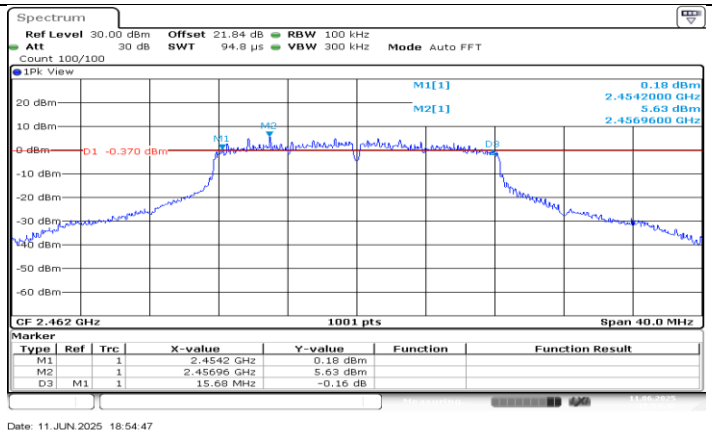

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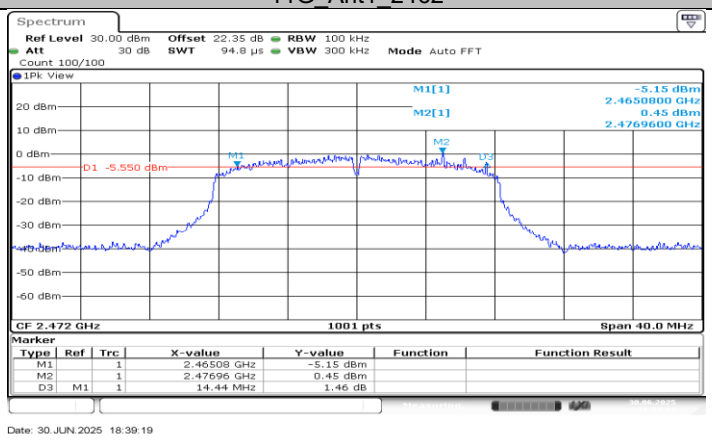

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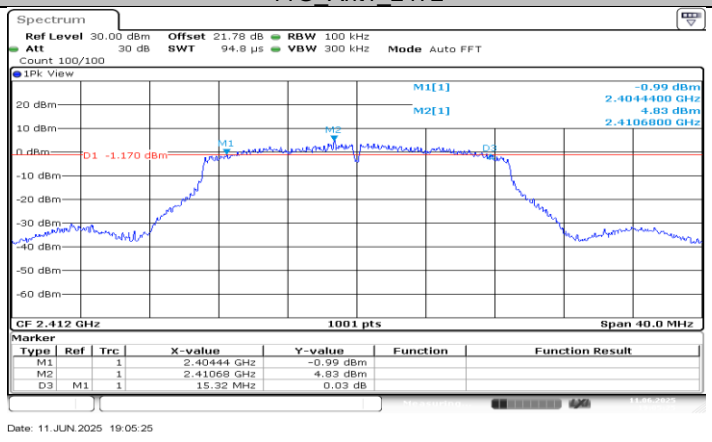

11N20SISO_Ant1_2412

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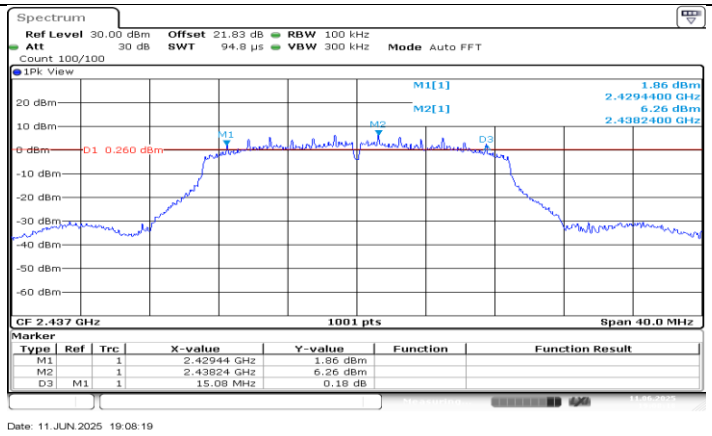

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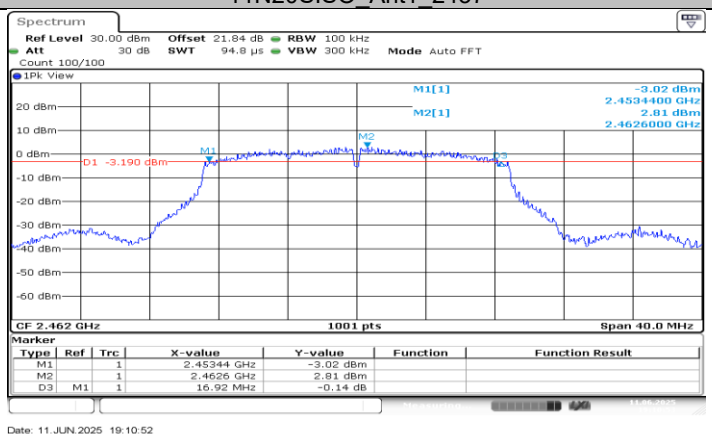

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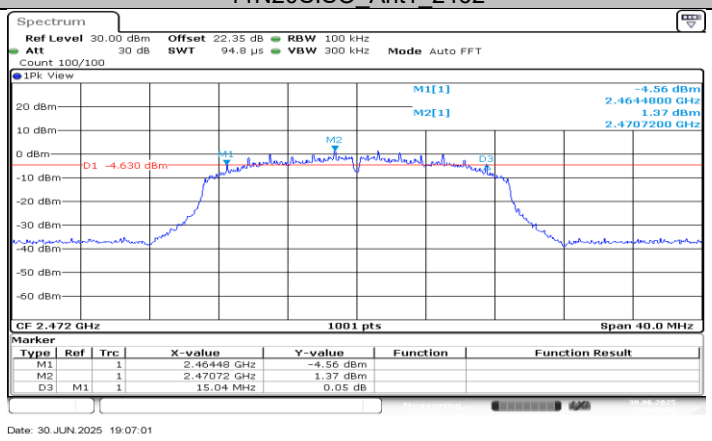

11N20SISO_Ant1_2472

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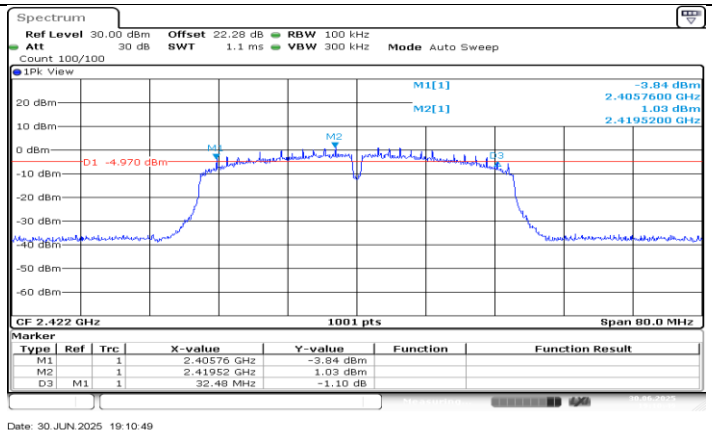

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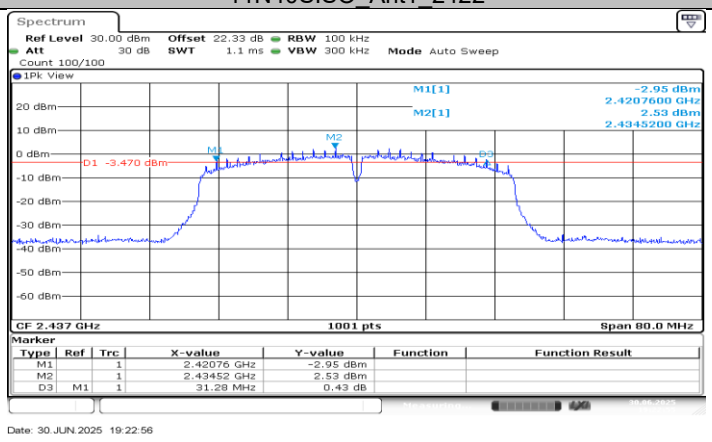

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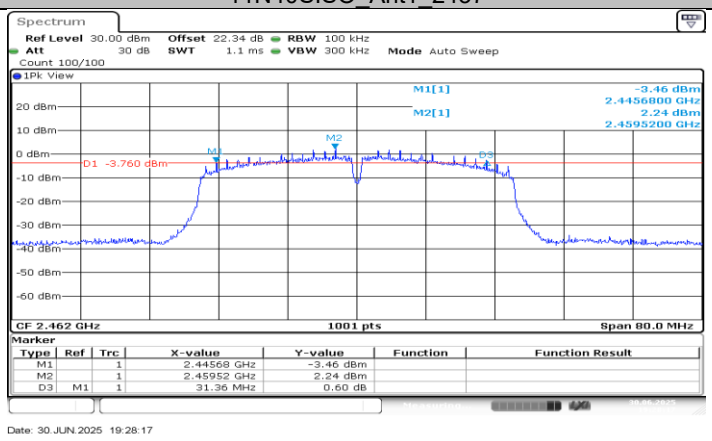

11N40SISO_Ant1_2462

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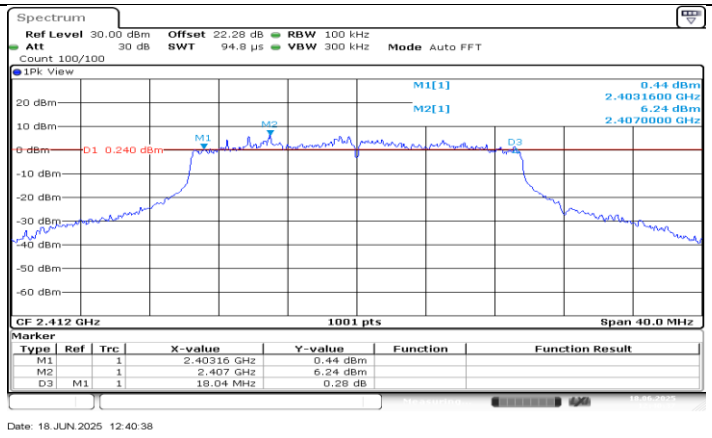
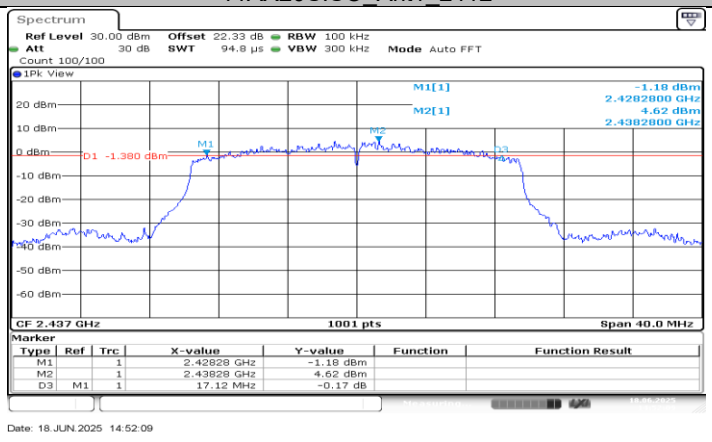


11AX20SISO_Ant1_2412



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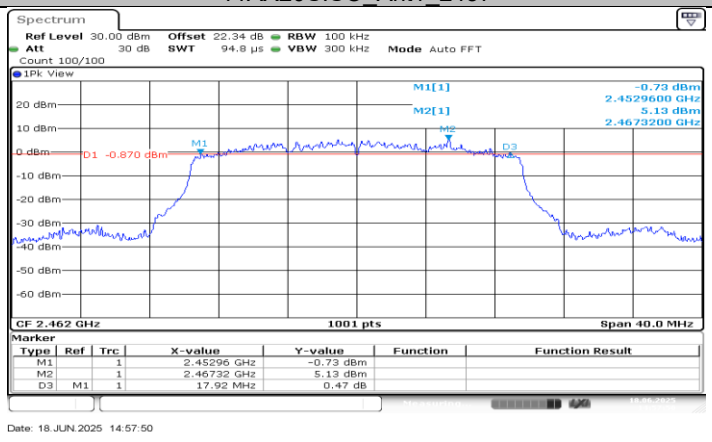

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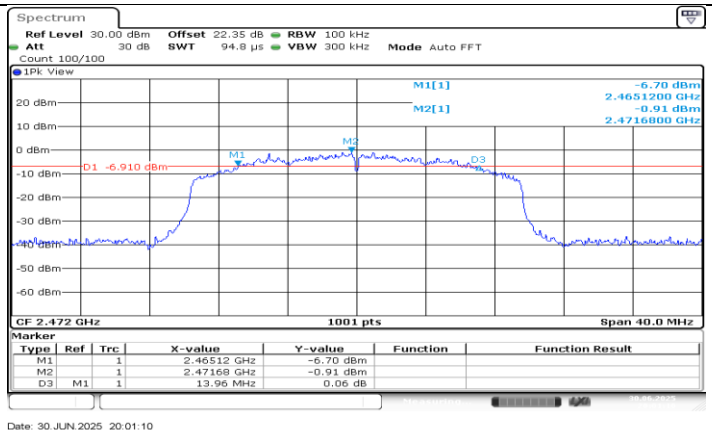

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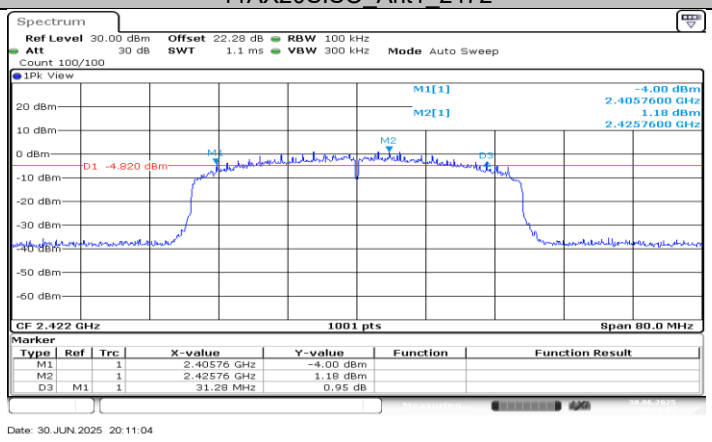
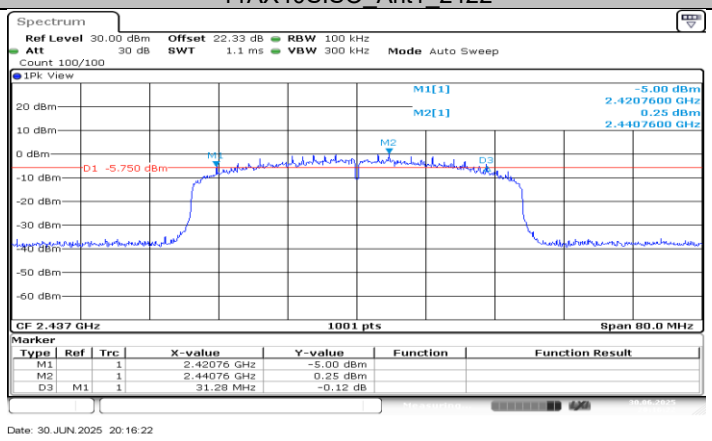


11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437

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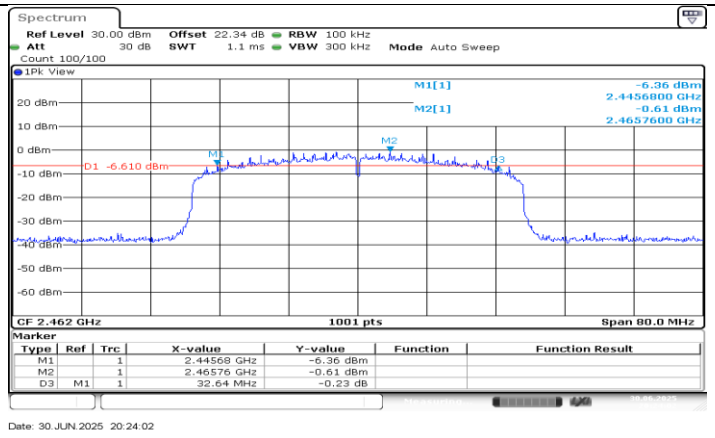

11AX40SISO_Ant1_2462

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11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	14.705	2404.6474	2419.3526	PASS
		2437	14.625	2429.6873	2444.3127	PASS
		2462	14.625	2454.6873	2469.3127	PASS
		2472	15.385	2464.3277	2479.7123	PASS
11G	Ant1	2412	18.182	2402.8891	2421.0709	PASS
		2437	18.182	2427.8891	2446.0709	PASS
		2462	18.182	2452.8492	2471.0310	PASS
		2472	16.344	2463.8082	2480.1518	PASS
11N20SISO	Ant1	2412	18.062	2402.9690	2421.0310	PASS
		2437	18.102	2427.9690	2446.0709	PASS
		2462	18.102	2452.9291	2471.0310	PASS
		2472	17.263	2463.3686	2480.6314	PASS
11N40SISO	Ant1	2422	35.405	2404.2577	2439.6623	PASS
		2437	35.325	2419.3377	2454.6623	PASS
		2462	35.405	2444.3377	2479.7423	PASS
11AX20SISO	Ant1	2412	19.58	2402.2098	2421.7902	PASS
		2437	18.861	2427.5694	2446.4306	PASS
		2462	18.861	2452.5694	2471.4306	PASS
		2472	18.182	2462.9291	2481.1109	PASS
11AX40SISO	Ant1	2422	36.523	2403.6983	2440.2218	PASS
		2437	36.444	2418.7782	2455.2218	PASS
		2462	36.523	2443.6983	2480.2218	PASS

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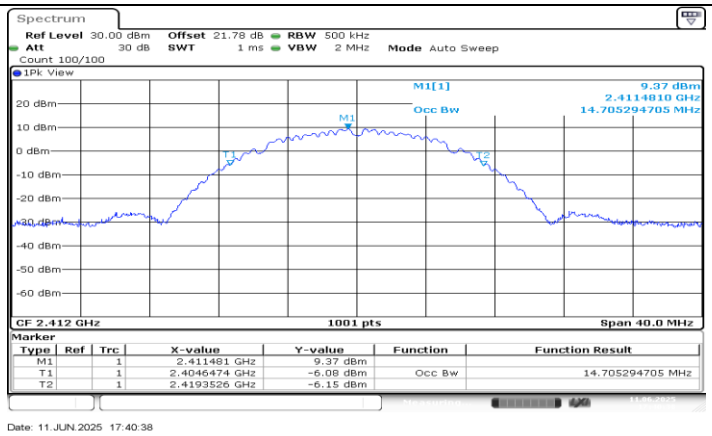
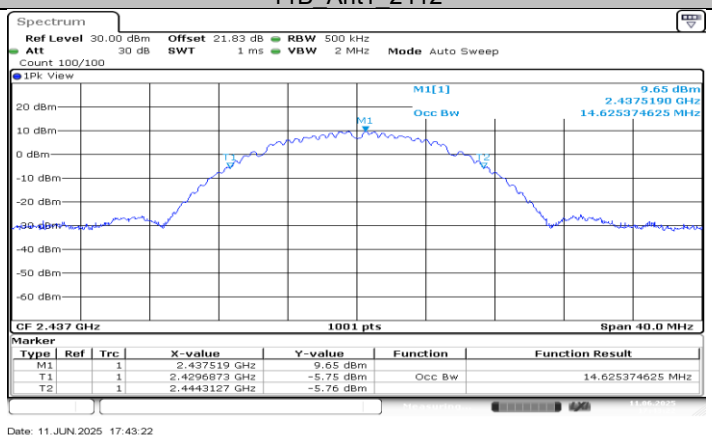
11.2.2. Test Graphs



11B_Ant1_2412



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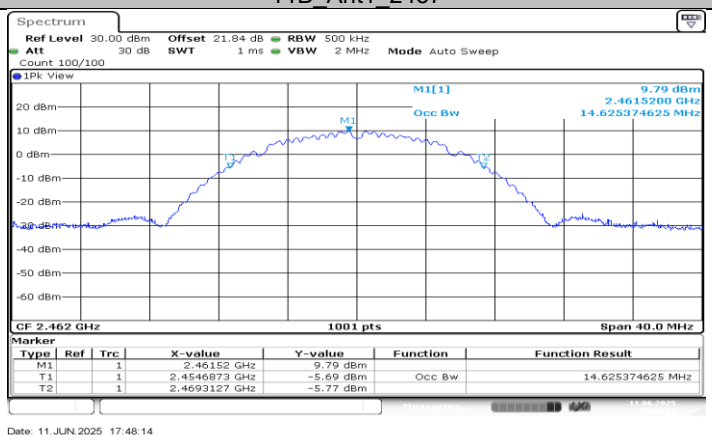

11B_Ant1_2462

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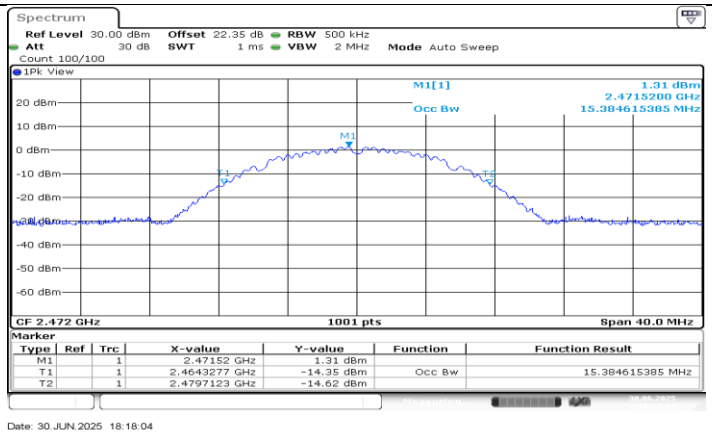

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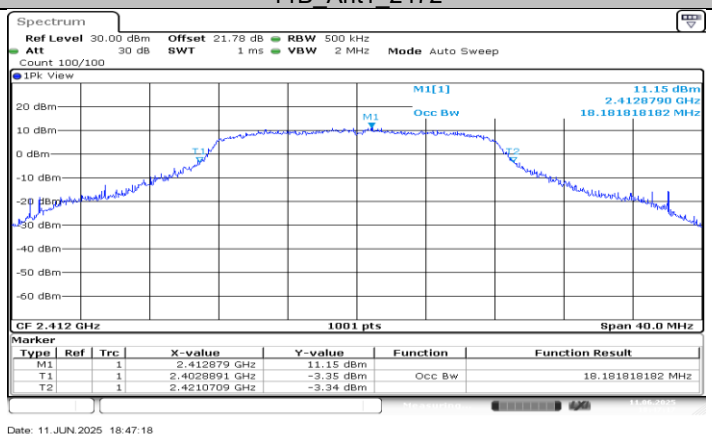

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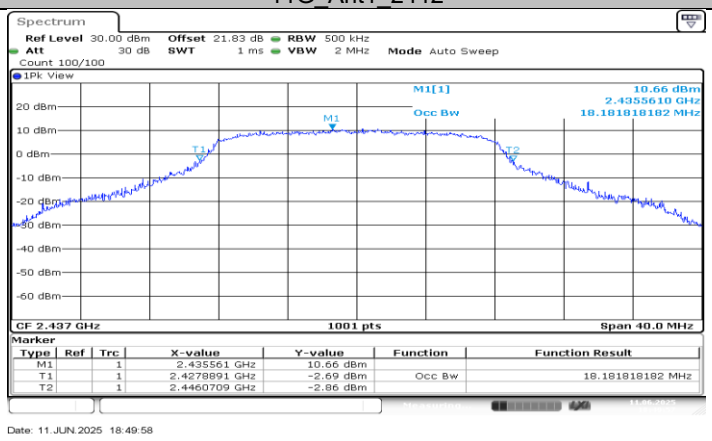

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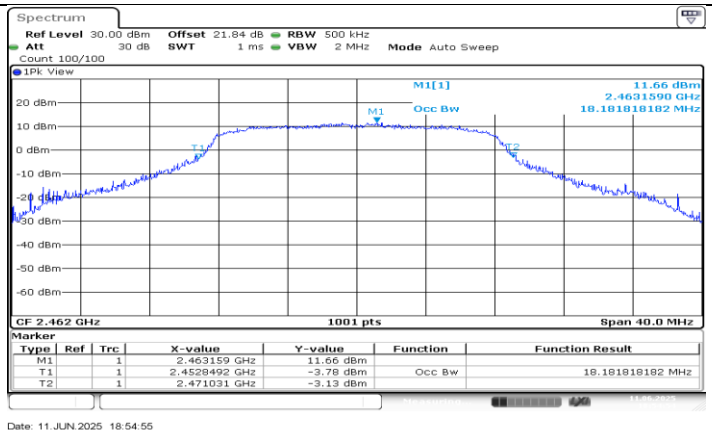

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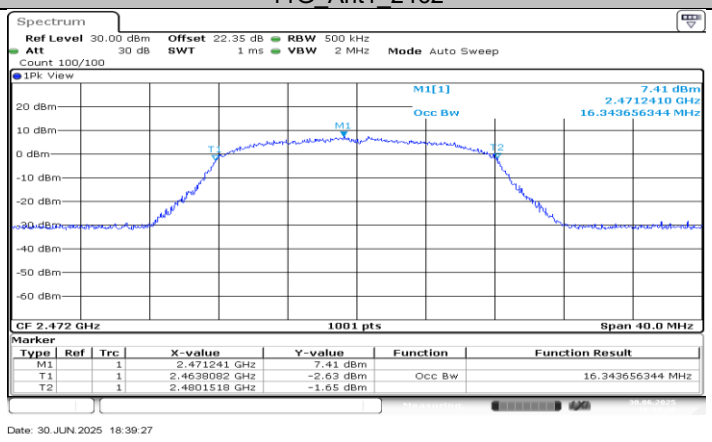

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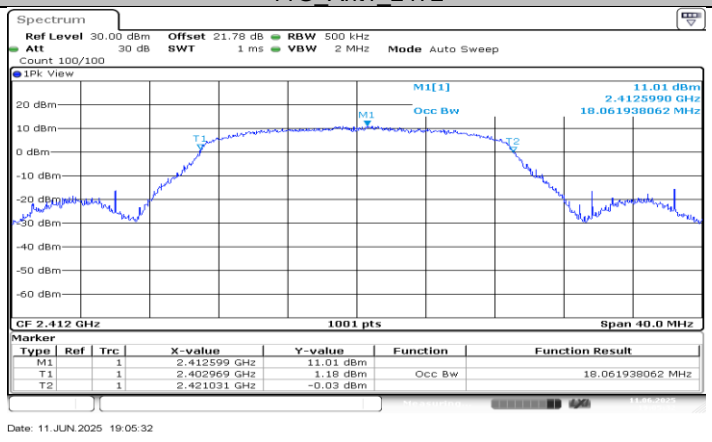

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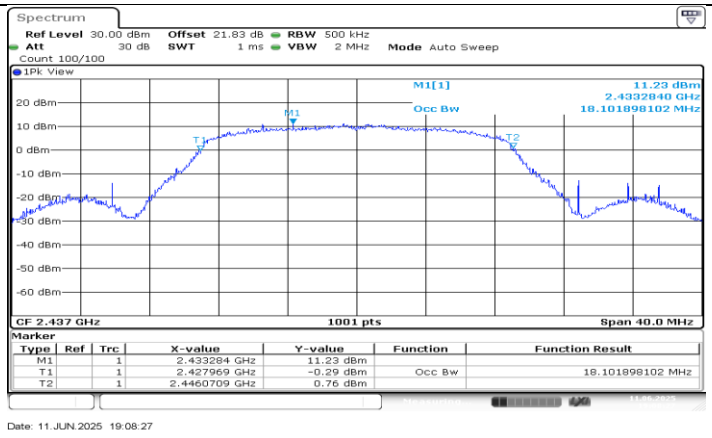

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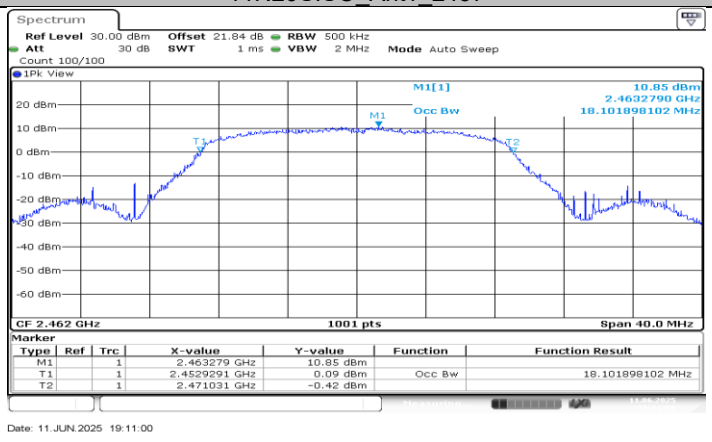

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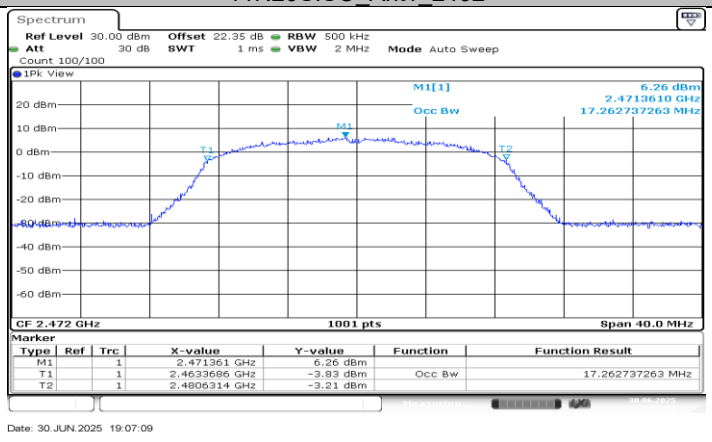

11N20SISO_Ant1_2472

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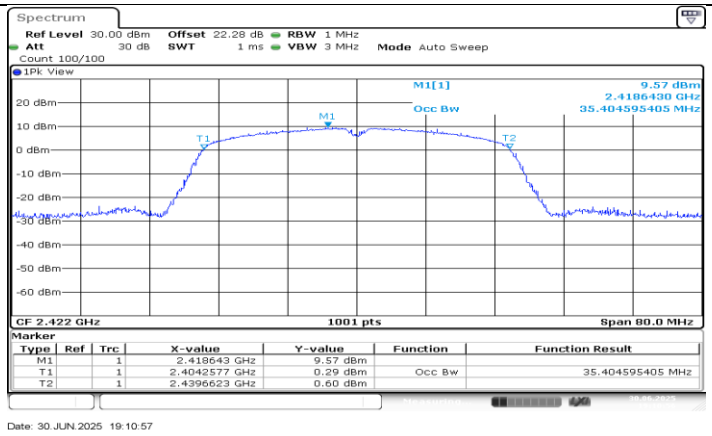

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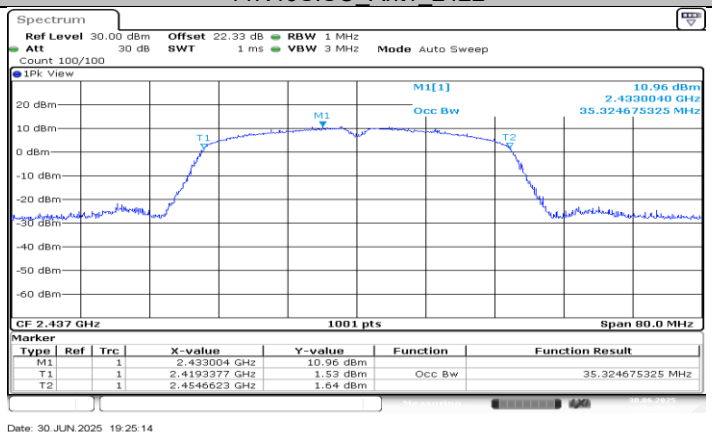

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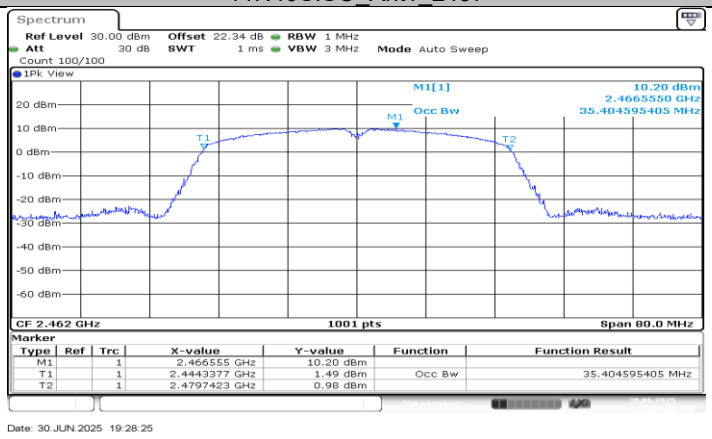

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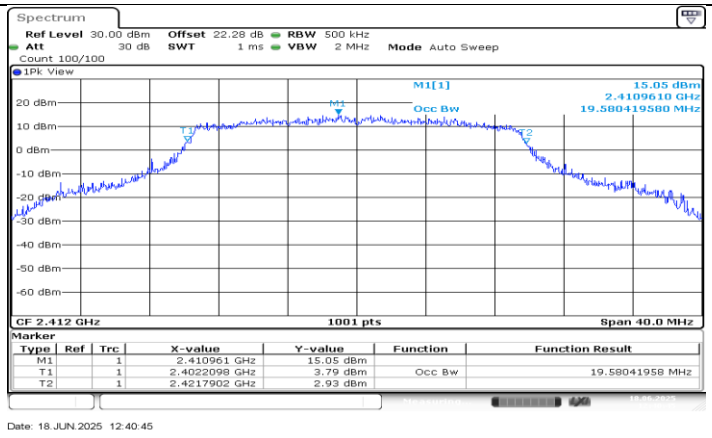

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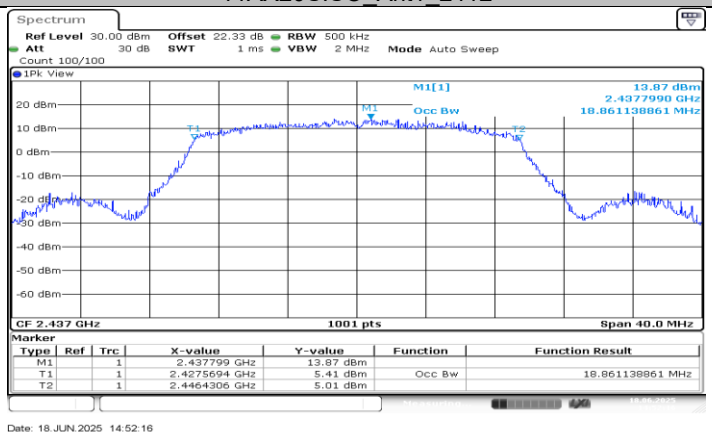

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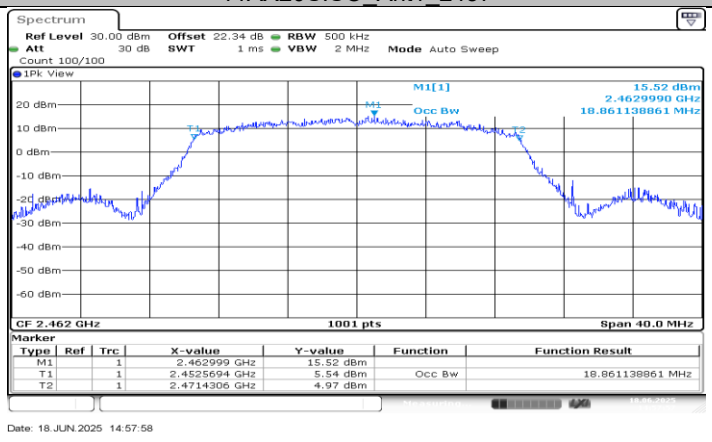

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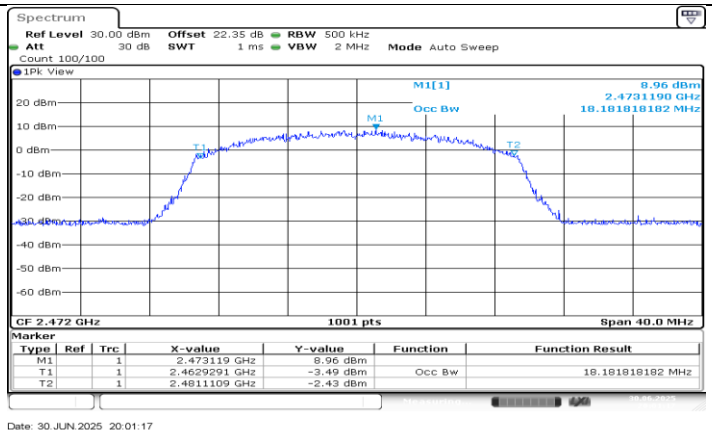

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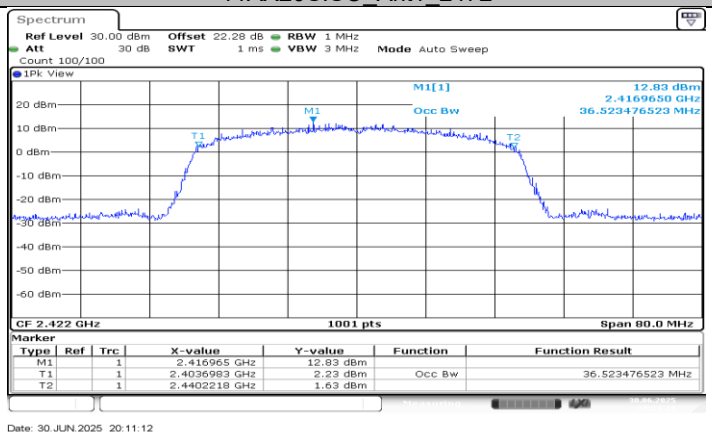

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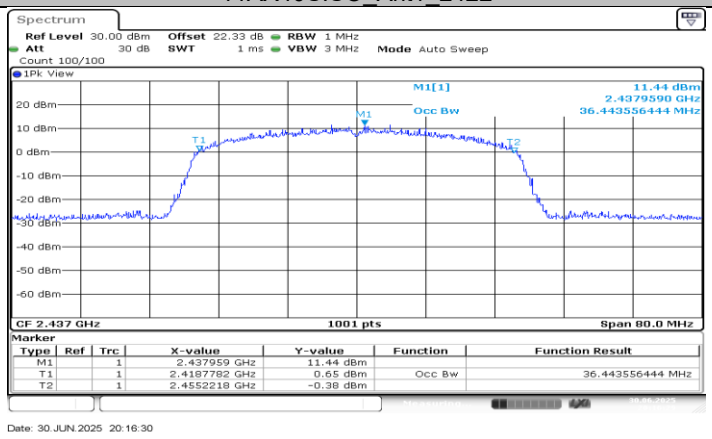

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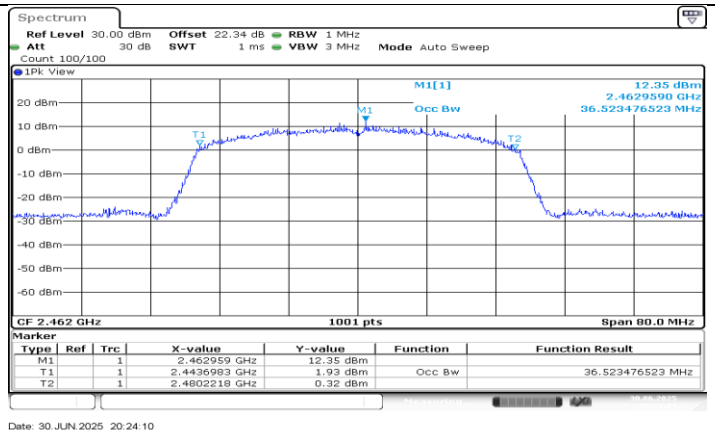

11AX40SISO_Ant1_2462

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11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

11.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.86	≤30.00	PASS
		2437	17.01	≤30.00	PASS
		2462	17.19	≤30.00	PASS
		2472	8.74	≤30.00	PASS
11G	Ant1	2412	15.99	≤30.00	PASS
		2437	15.84	≤30.00	PASS
		2462	15.52	≤30.00	PASS
		2472	11.75	≤30.00	PASS
11N20SISO	Ant1	2412	15.92	≤30.00	PASS
		2437	15.78	≤30.00	PASS
		2462	15.19	≤30.00	PASS
		2472	10.58	≤30.00	PASS
11N40SISO	Ant1	2422	13.65	≤30.00	PASS
		2437	14.55	≤30.00	PASS
		2462	14.27	≤30.00	PASS
11AX20SISO	Ant1	2412	15.40	≤30.00	PASS
		2437	15.25	≤30.00	PASS
		2462	16.07	≤30.00	PASS
		2472	10.40	≤30.00	PASS
11AX40SISO	Ant1	2422	13.55	≤30.00	PASS
		2437	12.54	≤30.00	PASS
		2462	12.19	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

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11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-14.61	≤8.00	PASS
		2437	-14.02	≤8.00	PASS
		2462	-14.22	≤8.00	PASS
		2472	-22.07	≤8.00	PASS
11G	Ant1	2412	-16.65	≤8.00	PASS
		2437	-16.66	≤8.00	PASS
		2462	-16.85	≤8.00	PASS
		2472	-20.21	≤8.00	PASS
11N20SISO	Ant1	2412	-16.65	≤8.00	PASS
		2437	-16.52	≤8.00	PASS
		2462	-17.54	≤8.00	PASS
		2472	-21.02	≤8.00	PASS
11N40SISO	Ant1	2422	-21.83	≤8.00	PASS
		2437	-21.11	≤8.00	PASS
		2462	-21.46	≤8.00	PASS
11AX20SISO	Ant1	2412	-18.28	≤8.00	PASS
		2437	-18.18	≤8.00	PASS
		2462	-17.70	≤8.00	PASS
		2472	-22.46	≤8.00	PASS
11AX40SISO	Ant1	2422	-22.31	≤8.00	PASS
		2437	-23.46	≤8.00	PASS
		2462	-23.41	≤8.00	PASS

Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

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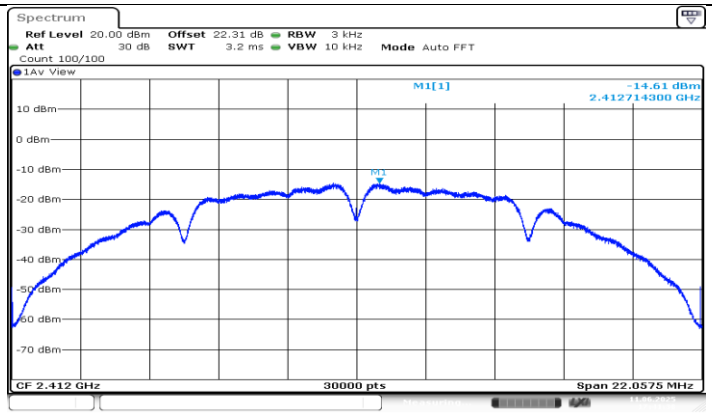
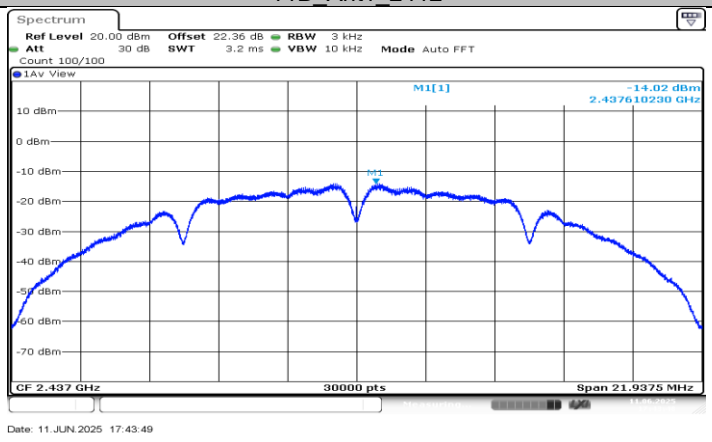
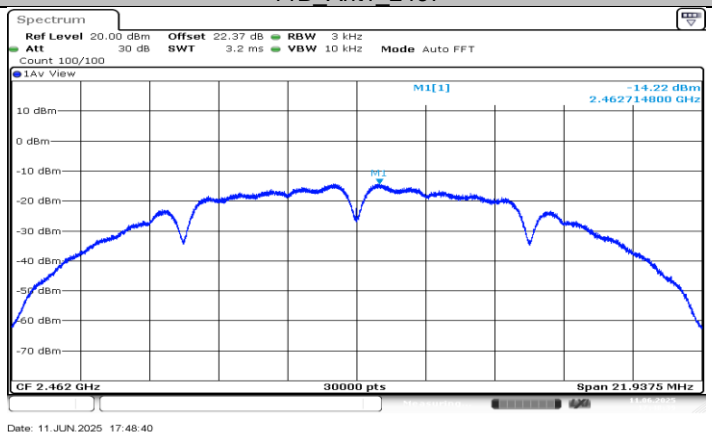
11.4.2. Test Graphs



11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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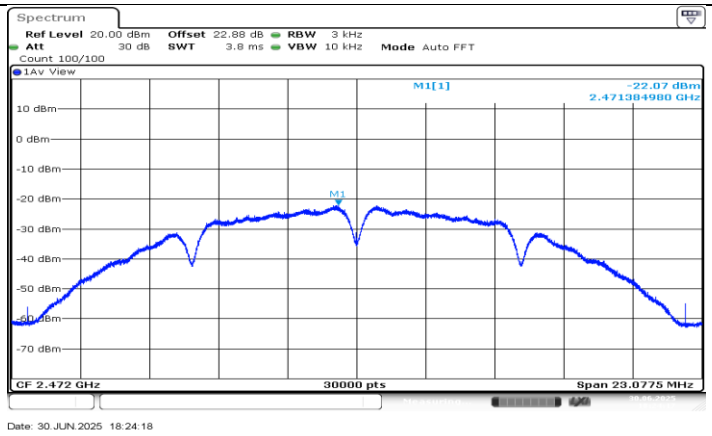
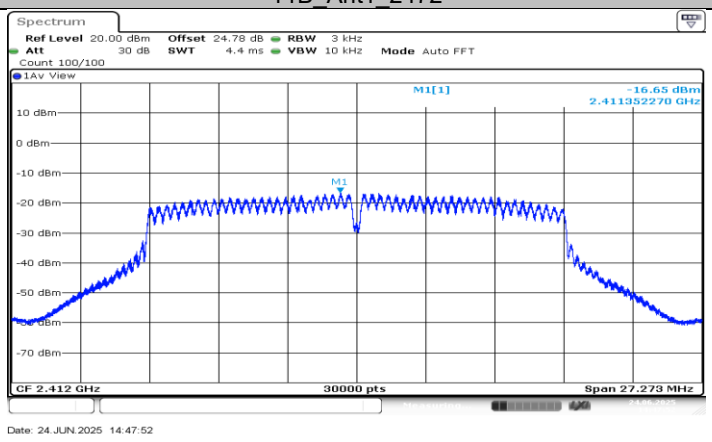
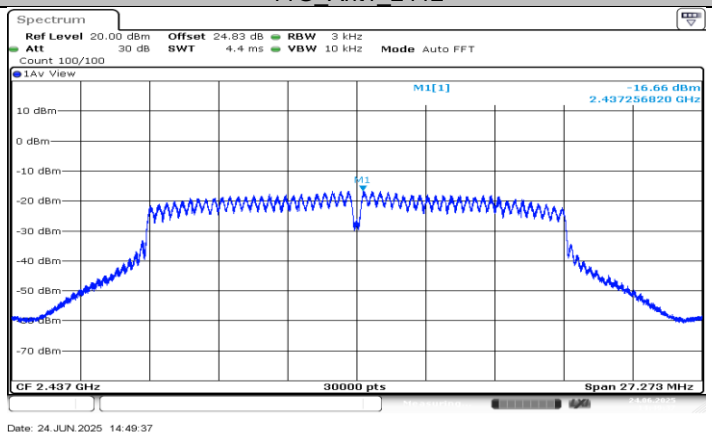


11B_Ant1_2472



11G_Ant1_2412



11G_Ant1_2437

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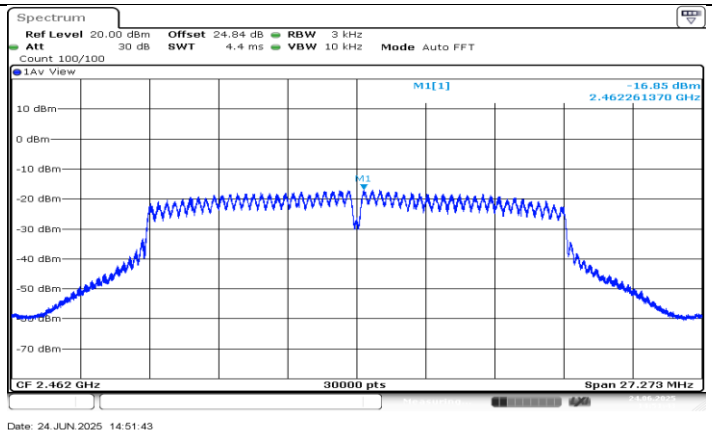

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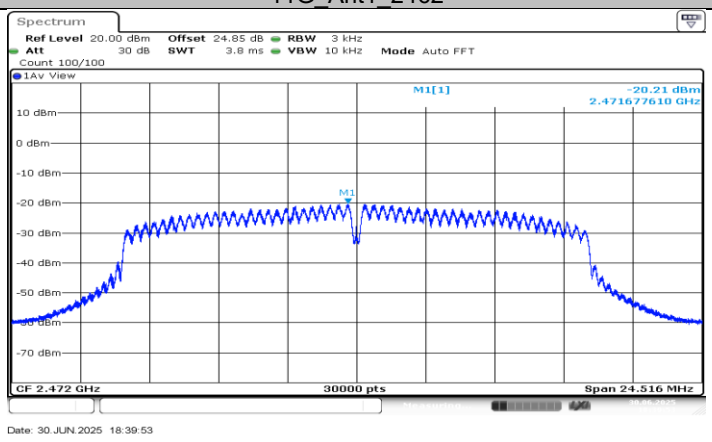

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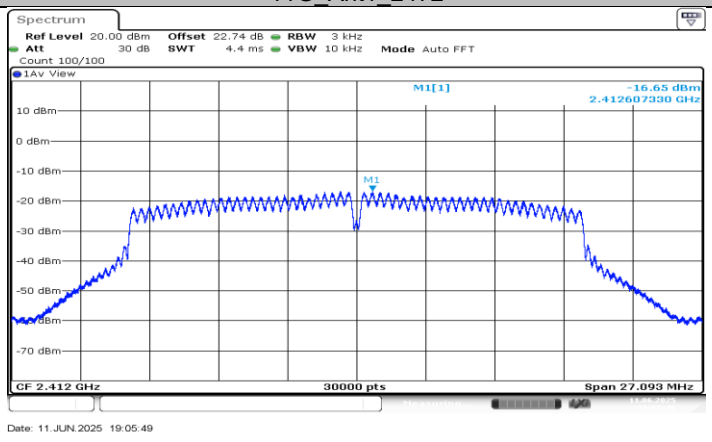

11N20SISO_Ant1_2412

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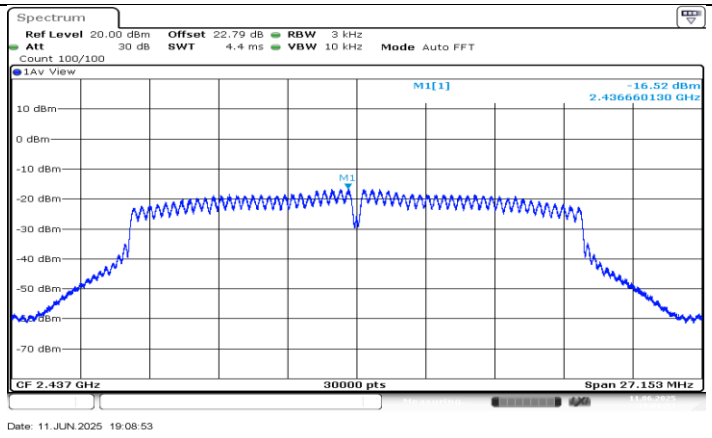

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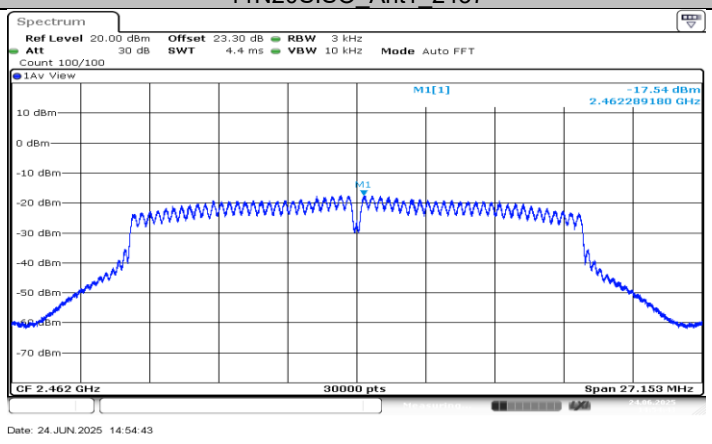

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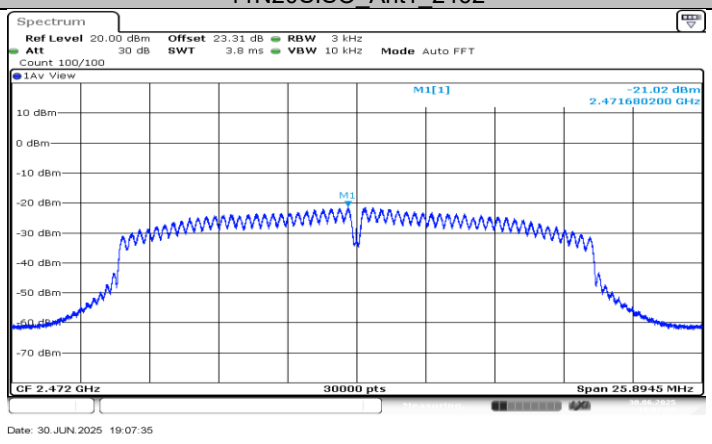

11N20SISO_Ant1_2472

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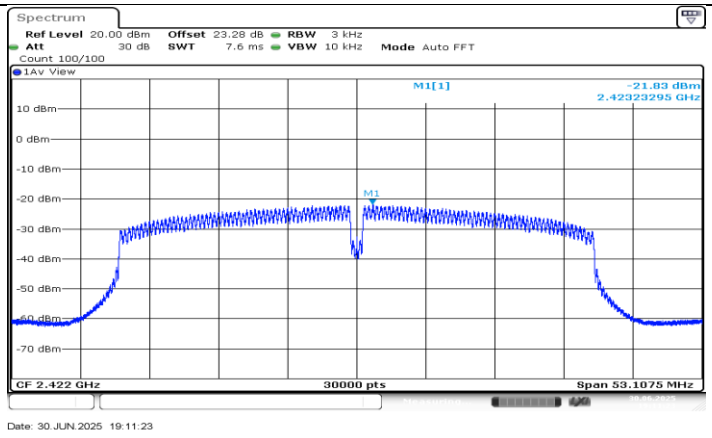
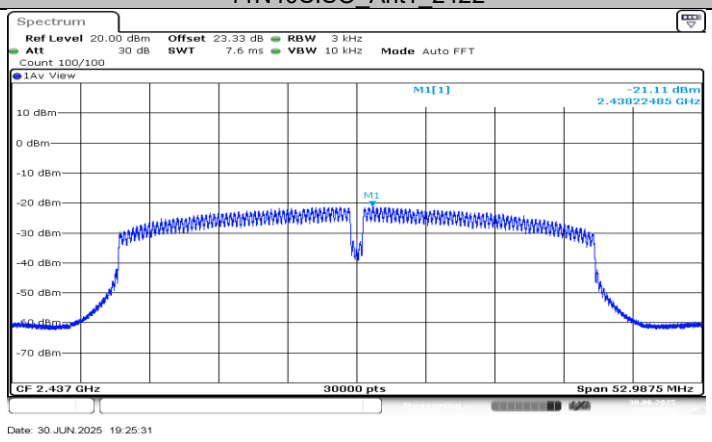


11N40SISO_Ant1_2422



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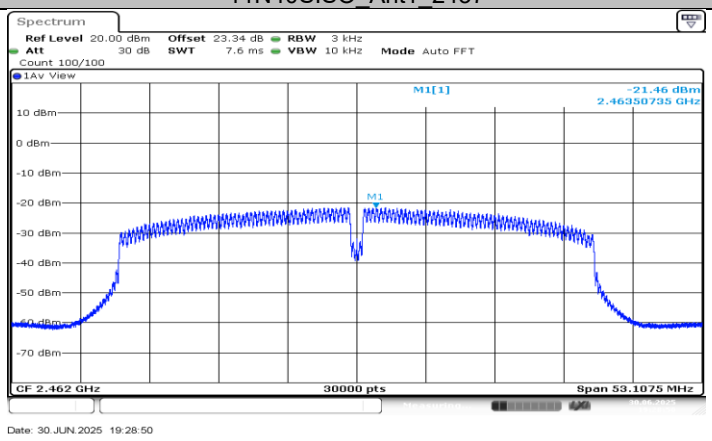

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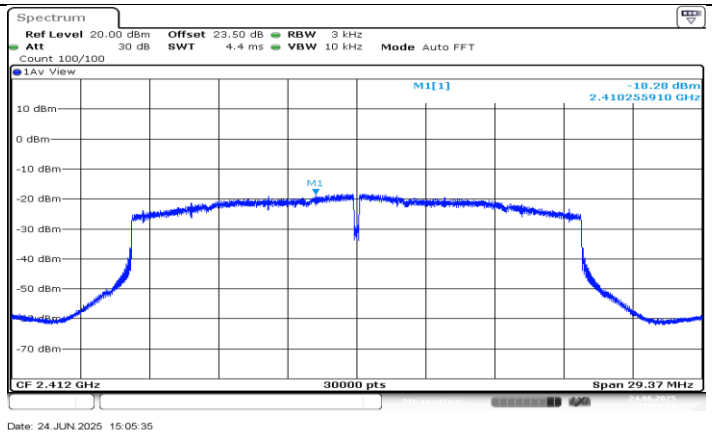

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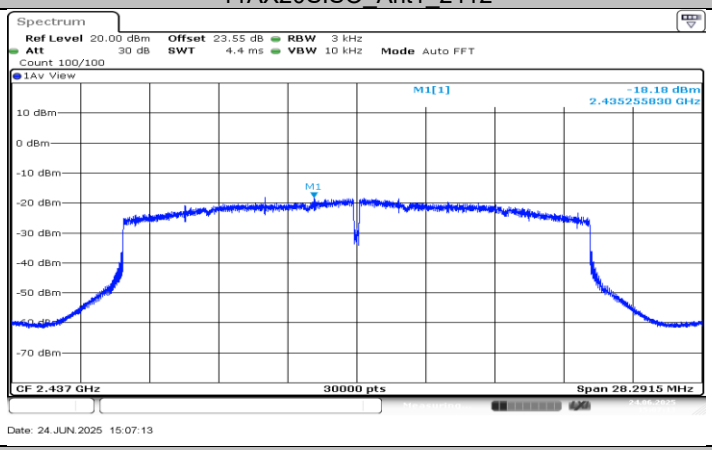

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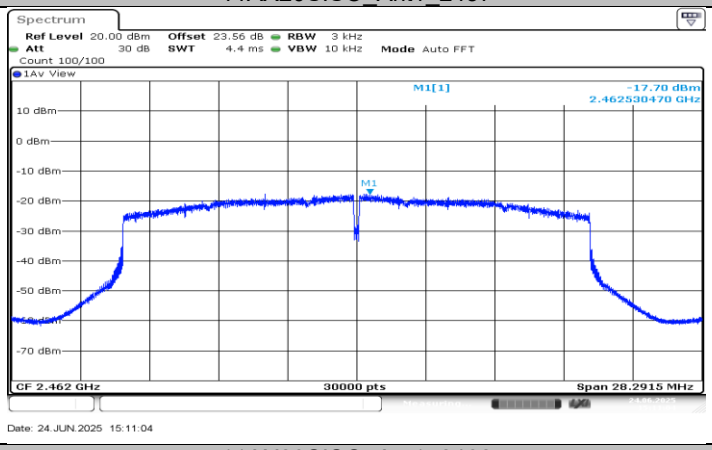

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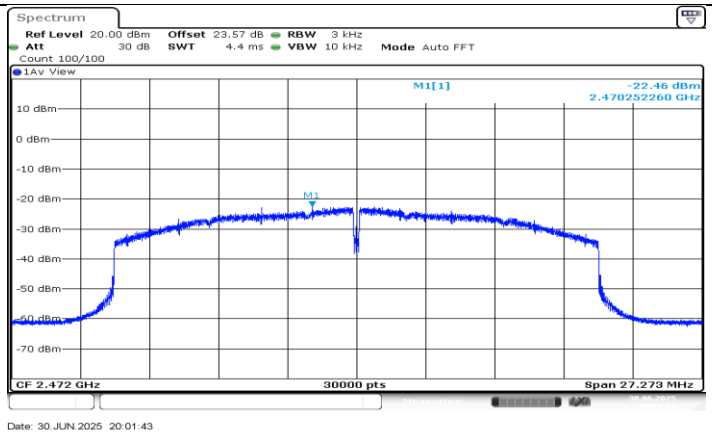

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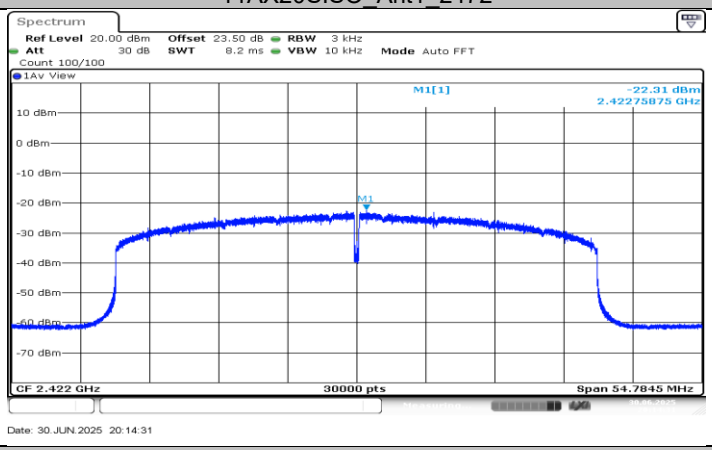

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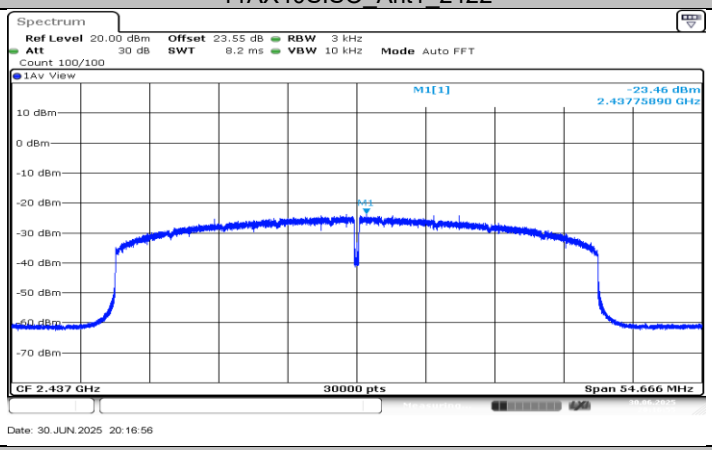

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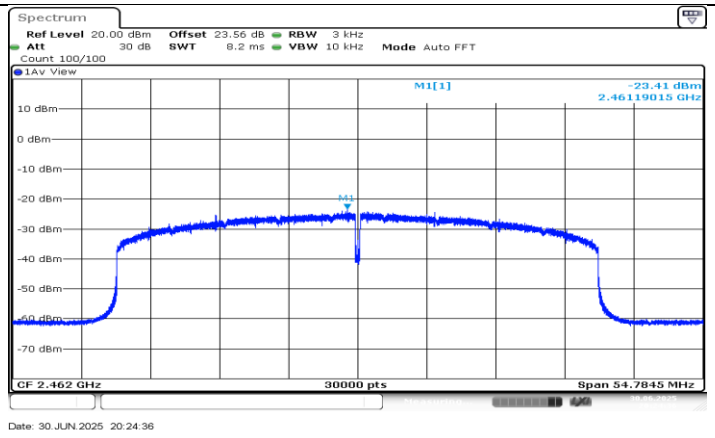

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11.5. APPENDIX E: BAND EDGE MEASUREMENTS

11.5.1. Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.43	-31.79	≤-21.57	PASS
		High	2462	8.41	-45.37	≤-21.59	PASS
		High	2472	0.29	-39.6	≤-29.71	PASS
11G	Ant1	Low	2412	3.79	-33.77	≤-26.21	PASS
		High	2462	3.03	-44.74	≤-26.97	PASS
		High	2472	0.83	-42.31	≤-29.17	PASS
11N20SISO	Ant1	Low	2412	6.30	-31.4	≤-23.7	PASS
		High	2462	5.07	-45.41	≤-24.93	PASS
		High	2472	-1.63	-41.36	≤-31.63	PASS
11N40SISO	Ant1	Low	2422	-1.86	-42.64	≤-31.86	PASS
		High	2462	1.39	-40.99	≤-28.61	PASS
11AX20SISO	Ant1	Low	2412	3.73	-36.81	≤-26.27	PASS
		High	2462	6.09	-45.14	≤-23.91	PASS
		High	2472	-0.84	-44.27	≤-30.84	PASS
11AX40SISO	Ant1	Low	2422	1.19	-42.16	≤-28.81	PASS
		High	2462	-0.20	-44.09	≤-30.2	PASS

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