

**CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 Issue 3**

TEST REPORT

For

WIFI+BT Module

MODEL NUMBER: WKXT0TM2501

REPORT NUMBER: 4791581420-3-RF-3

ISSUE DATE: January 19, 2025

**FCC ID: 2AC23-WKXT0T
IC: 12290A-WKXT0T**

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	January 19, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	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 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	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 ISED RSS-247 Issue 3> when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.2, Jin-da Road, Huinan High-tech Industrial Park, Huizhou, Guangdong, China

Manufacturer Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.2, Jin-da Road, Huinan High-tech Industrial Park, Huizhou, Guangdong, China

EUT Information

EUT Name: WIFI+BT Module
Model: WKXT0TM2501
Brand: GSD
Sample Received Date: November 29, 2024
Sample Status: Normal
Sample ID: 7883578
Date of Tested: December 11, 2025 to January 19, 2025

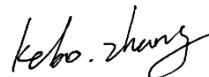
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3	Pass

Prepared By:



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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISSED RSS-247 Issue 3, 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 and ISSED RSS-GEN Issue 5

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. VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of 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.

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.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	WIFI+BT Module
Model	WKXT0TM2501

Frequency Range:	2412 MHz to 2462 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:	IEEE 802.11b/g/n HT20/11n HT40/ax HE20/ax HE40
Normal Test Voltage:	DC 3.3V

5.2. CHANNEL LIST

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

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

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	14.67	17.55
g	2412 ~ 2462	1-11[11]	14.56	17.44
n HT20	2412 ~ 2462	1-11[11]	17.08	19.96
n HT40	2422 ~ 2452	3-9[7]	17.26	20.14
ax HE20	2412 ~ 2462	1-11[11]	15.35	18.23
ax HE40	2422 ~ 2452	3-9[7]	15.23	18.11

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz
ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		QA Tool					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	14	14	14	/		
	2	14	14	14			
802.11g	1	13	15	15			
	2	13	15	15			
802.11n HT20	1	13	14.5	14.5			
	2	13	14.5	14.5			
802.11n HT40	1	/			14.5	15	15
	2	/			14.5	15	15
802.11ax HE20	1	13	14.5	14.5	/		
	2	13	14.5	14.5			
802.11ax HE40	1	/			14.5	14.5	14.5
	2	/			14.5	14.5	14.5

5.6. 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 only support SISO mode.
802.11n HT20/HT40/ax HE20/HE40 support SISO and MIMO mode.

802.11b/g SISO mode, Antenna 1 and Antenna 2 has the same power setting, so only Antenna 1 worst case test data were recorded in the report.

802.11n/ax SISO mode and MIMO mode have the same power setting, so only the worst case power mode(MIMO) will be record in the report.

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 1 and Core 2 correspond to antenna 1 and antenna 2 respectively.

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

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

Conducted bandedge and spurious emissions tests were performed with SISO mode, as this port was found to have the worst case in terms of power settings amongst all supported possible SISO & MIMO port combinations.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.

The EUT support Cyclic Shift Diversity(CDD), Space Time Coding(STBC), Spatial Division Multiplexing(SDM) modes. They use the same conducted power per chain in any given mode, so we only chose the worst case mode CDD for final testing.

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PIFA antenna	2.88
2	2412-2462	PIFA antenna	-0.26

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

Directional gain= G_{ANT} + Array Gain = 2.88 dBi

G_{ANT} : equal to the gain of the antenna having the highest gain

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain= G_{ANT} + Array Gain = 5.89 dBi

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, The worst case directional gain will occur when $N_{SS} = 1$

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒ 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒ 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒ 2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
Note: 1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)		

5.8. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC Adaptor	Lenovo	ADLX65YCC3D	Input: AC 100-240V, 1.8A, 50-60Hz Output: DC 20V, 3.25A, 65.0W Max

I/O CABLES

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

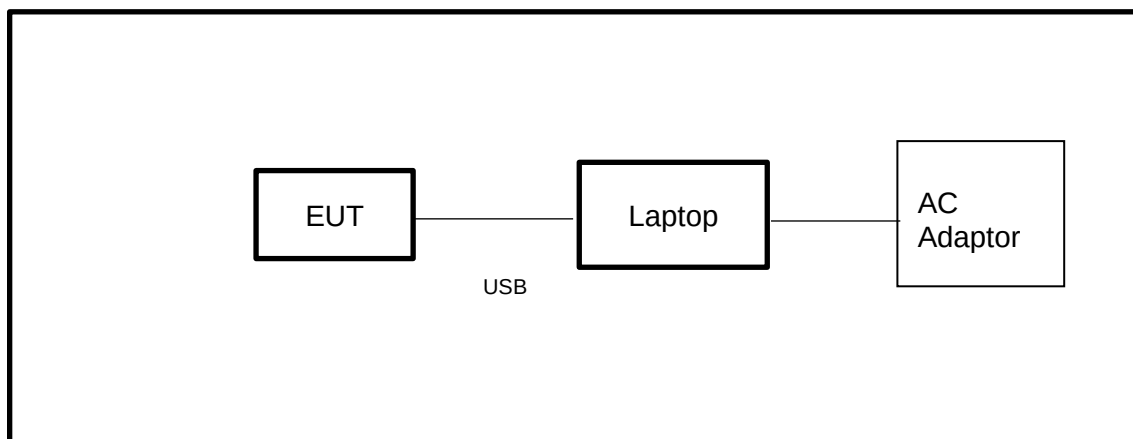
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



Note: AC Adaptor only use for AC POWER LINE CONDUCTED EMISSION test

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	Mar.25,2024	Mar.24,2025
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	Mar.25,2024	Mar.24,2025
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		V3.2.22	

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	130939	Apr.29, 2022	Apr.28, 2025
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

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

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

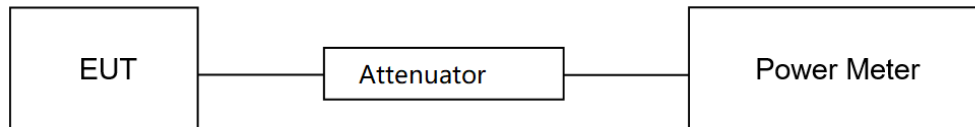
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	22.2°C	Relative Humidity	54.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	December 11, 2024	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	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

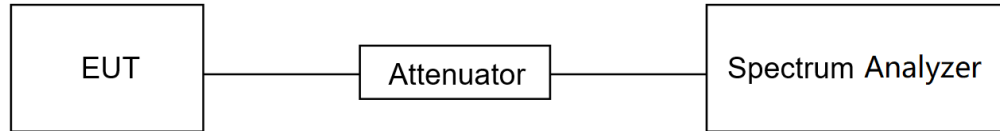
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ 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.

TEST SETUP**TEST ENVIRONMENT**

Temperature	22.2℃	Relative Humidity	54.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	December 11, 2024	Test By	Bairong Liu
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TEST RESULTS

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

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	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.

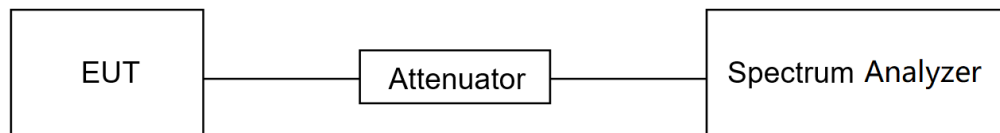
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{OBW bandwidth}$
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	22.2°C	Relative Humidity	54.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	December 11, 2024	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

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	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

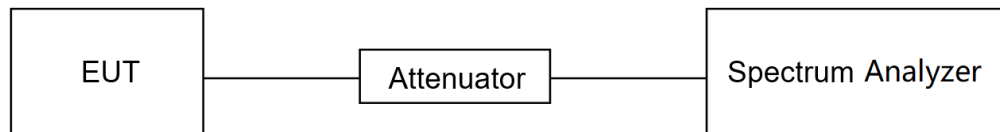
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

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	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
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.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.2°C	Relative Humidity	54.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	December 11, 2024	Test By	Bairong Liu
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TEST RESULTS

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

7.5. DUTY CYCLE

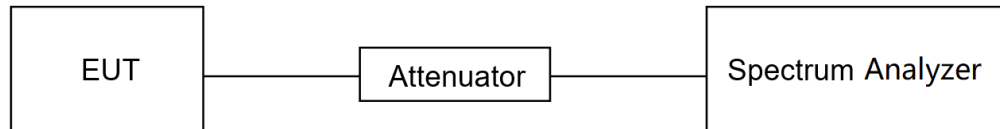
LIMITS

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	22.2°C	Relative Humidity	54.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	December 11, 2024	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

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

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

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

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.6
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 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.
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.

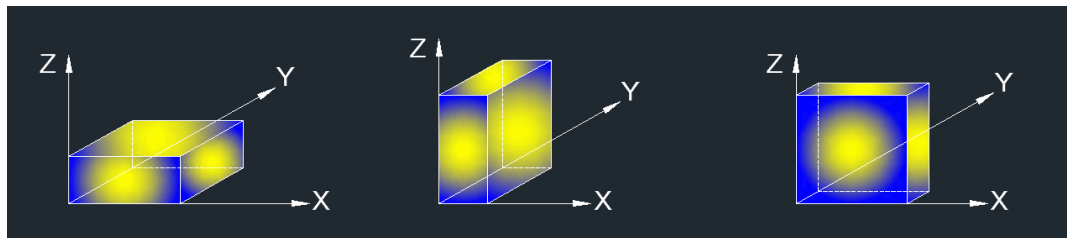
Above 1 GHz

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.

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. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

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.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

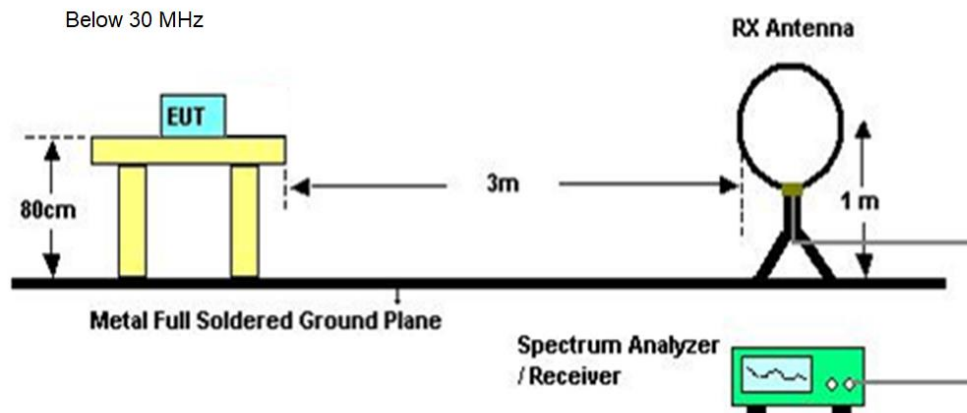
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please 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):

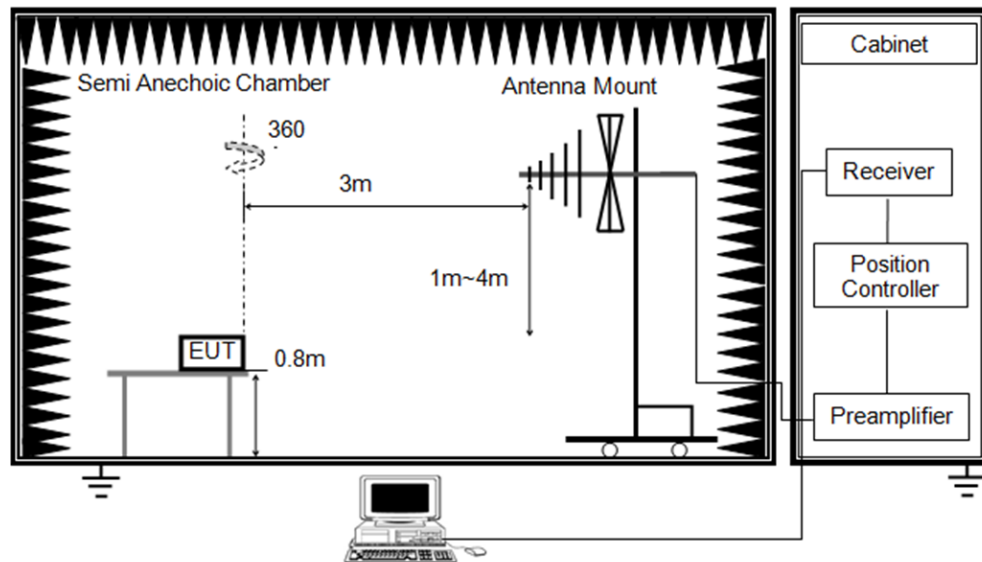
Note:

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.

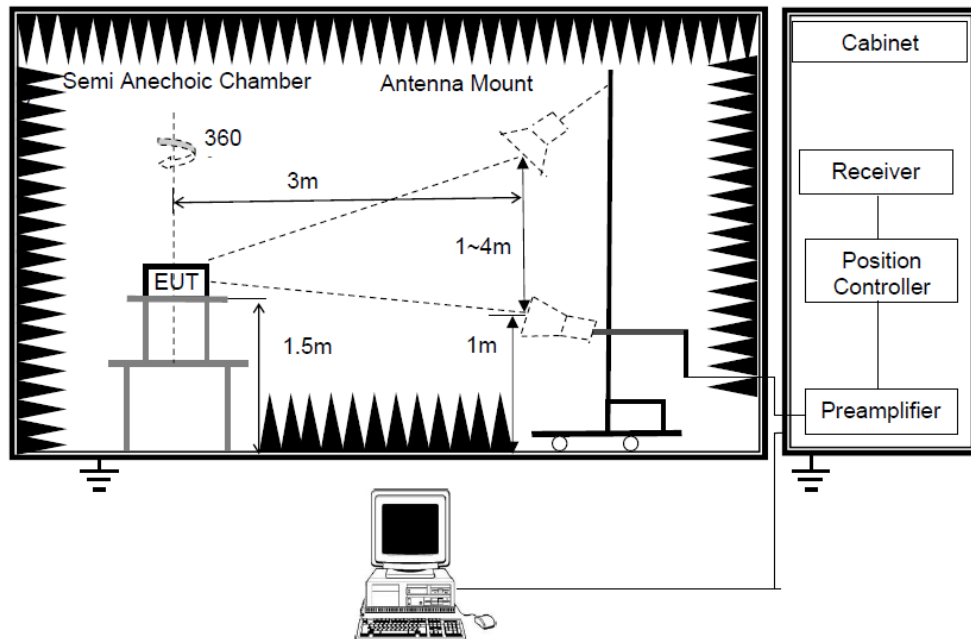
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	20.8℃	Relative Humidity	56.4%
Atmosphere Pressure	101kPa	Test Voltage	

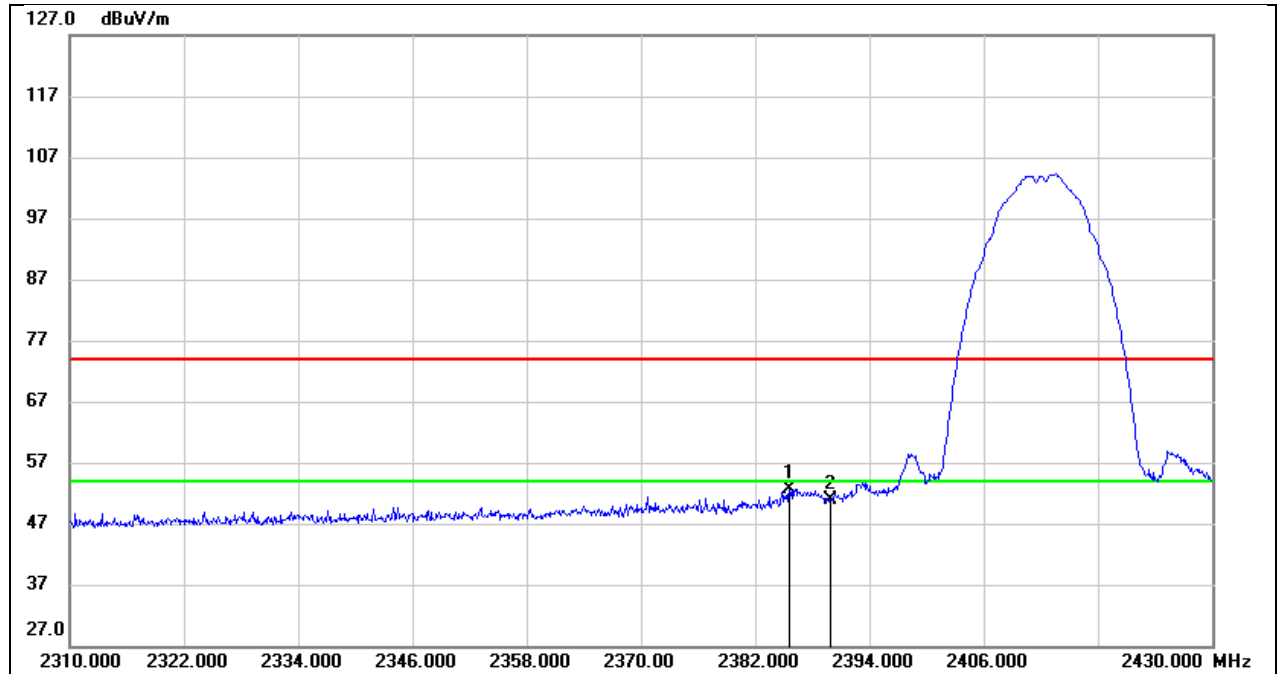
TEST DATE / ENGINEER

Test Date	January 18, 2025	Test By	Mason Wang
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TEST RESULTS

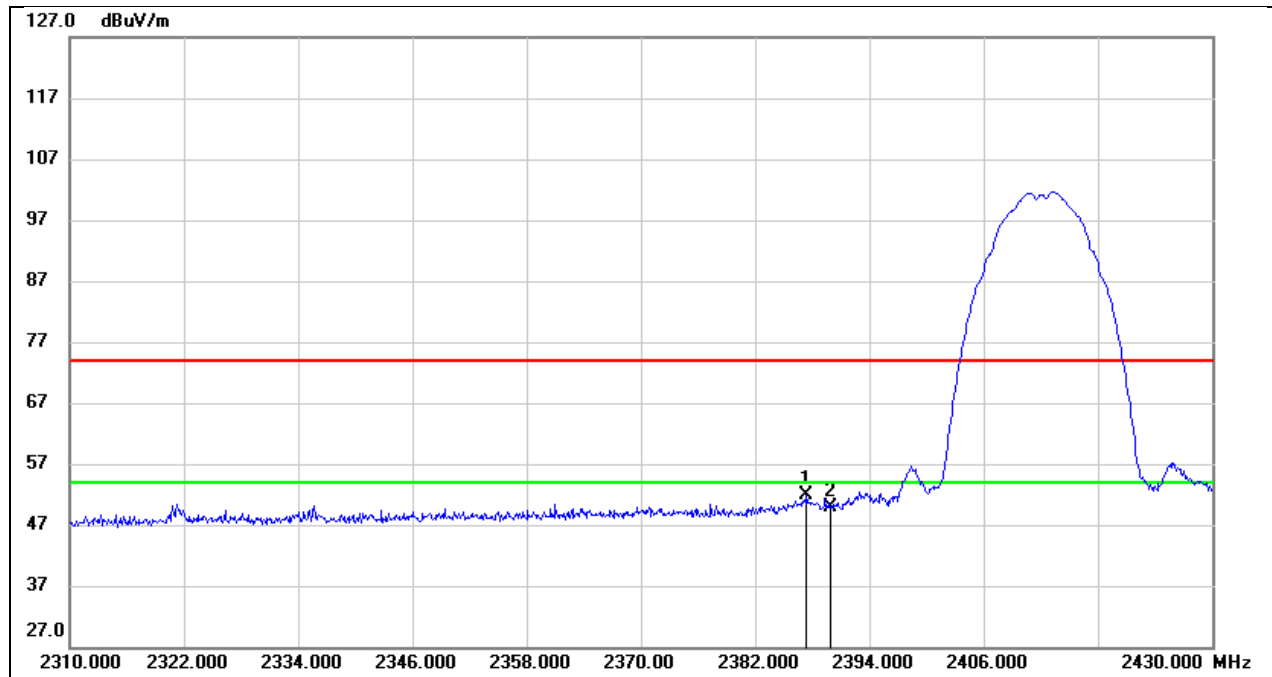
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



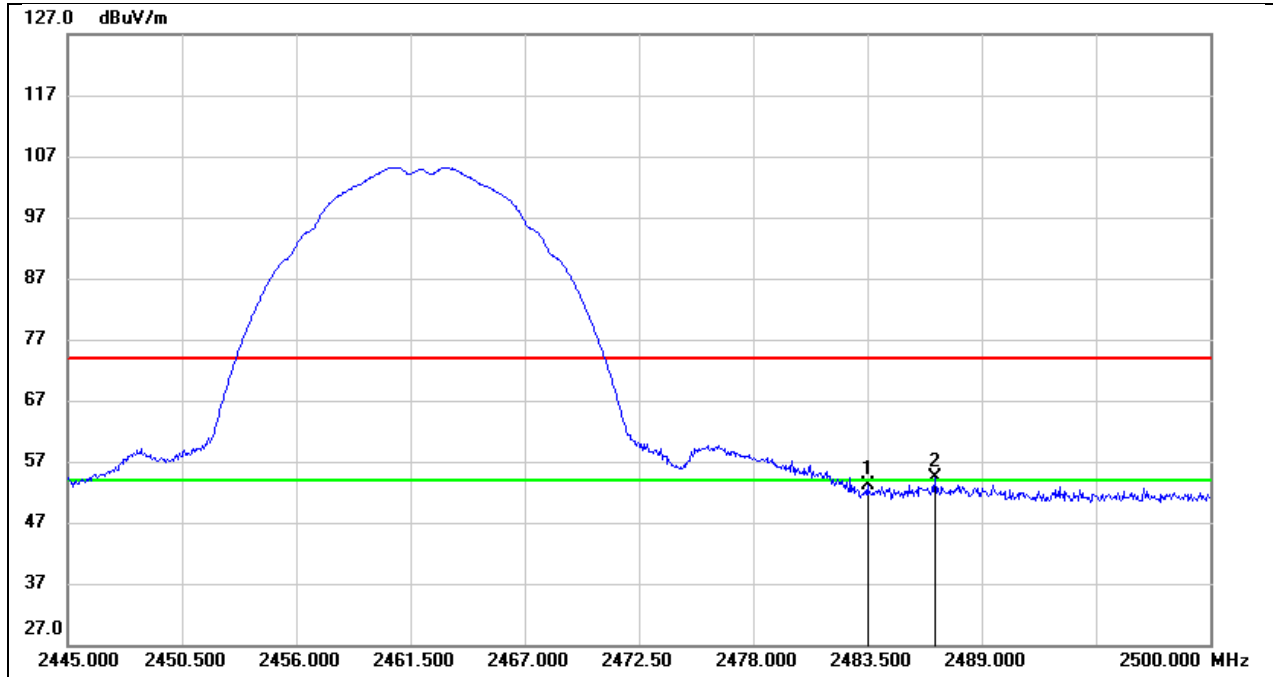
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.600	20.96	31.71	52.67	74.00	-21.33	peak
2	2390.000	19.03	31.73	50.76	74.00	-23.24	peak

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



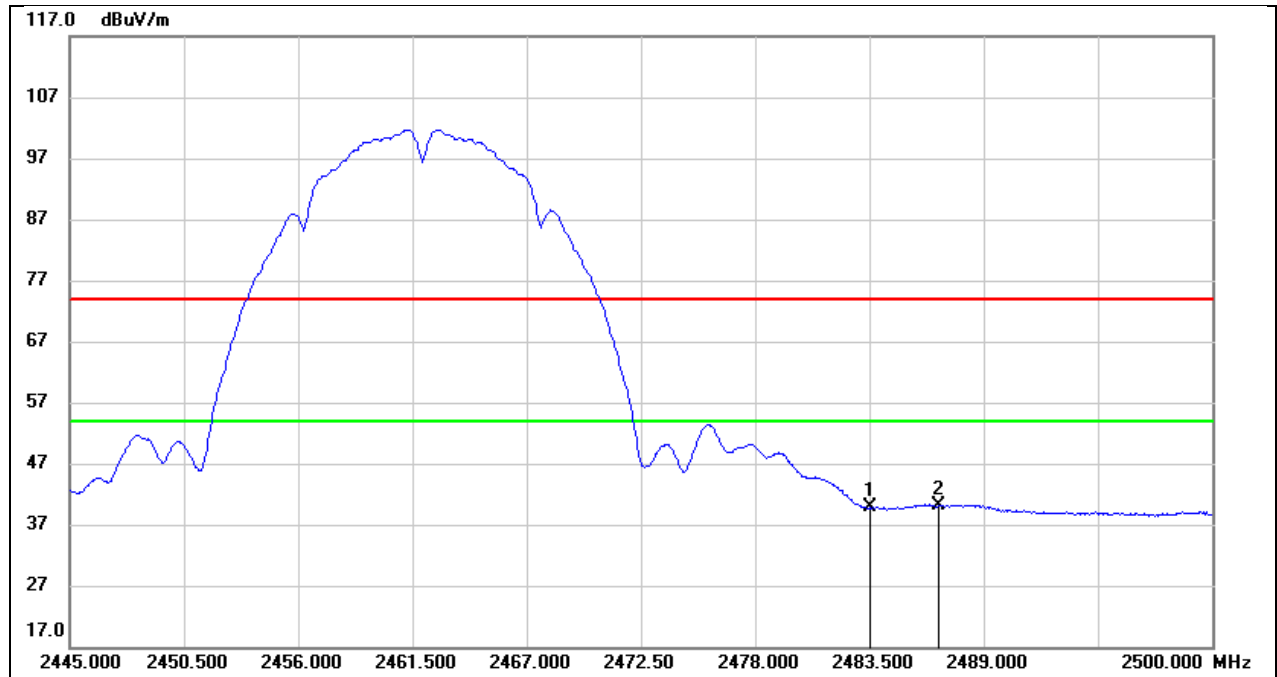
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.400	19.36	32.55	51.91	74.00	-22.09	peak
2	2390.000	17.29	32.55	49.84	74.00	-24.16	peak

Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



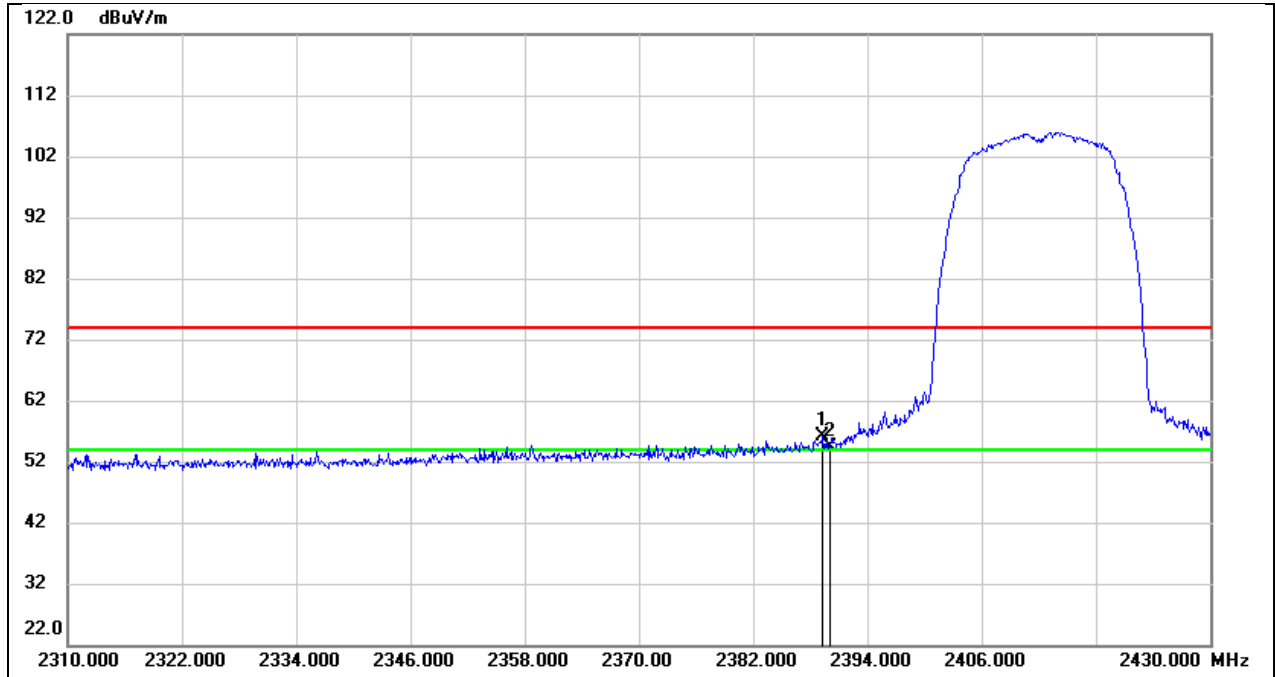
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	21.11	32.00	53.11	74.00	-20.89	peak
2	2486.745	22.39	32.00	54.39	74.00	-19.61	peak

Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



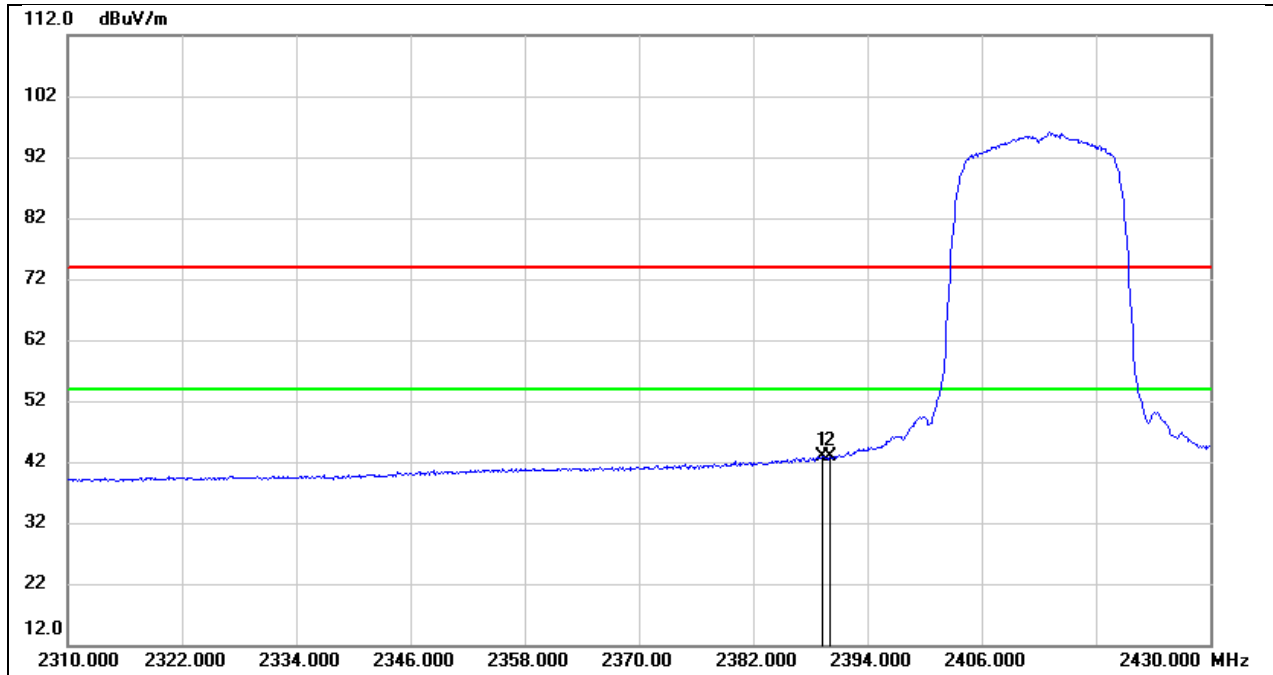
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	7.90	32.00	39.90	54.00	-14.10	AVG
2	2486.745	8.09	32.00	40.09	54.00	-13.91	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



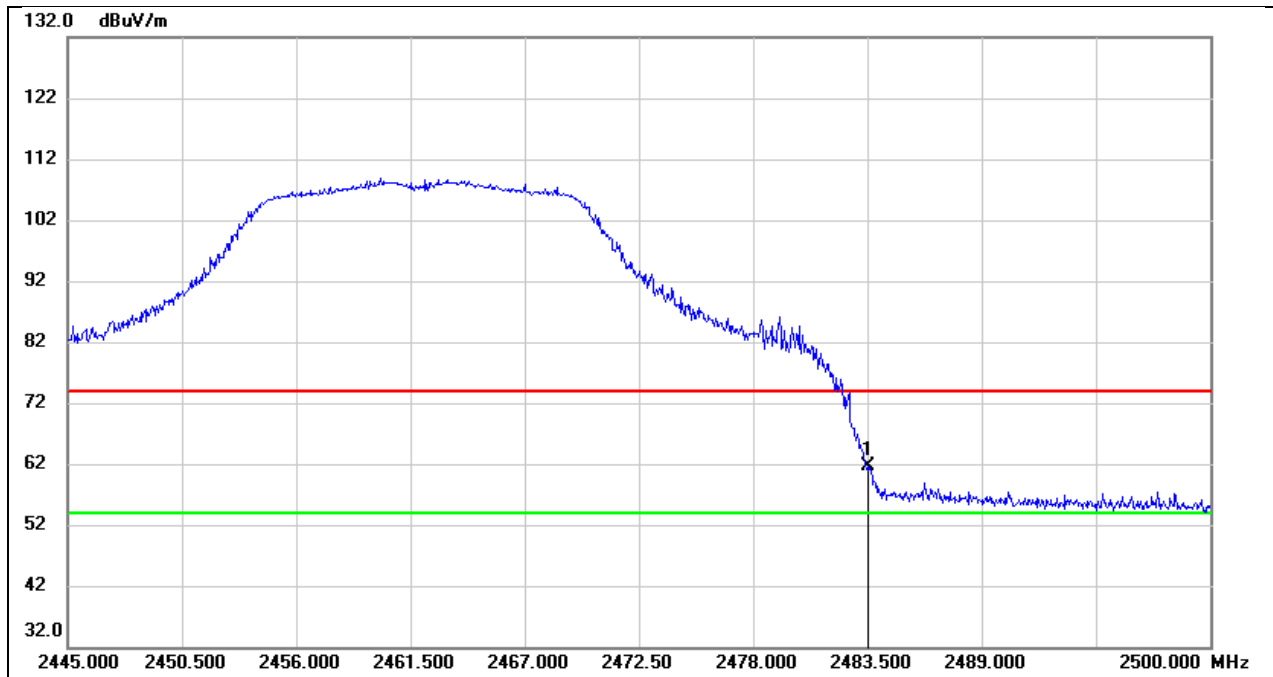
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.320	24.42	31.73	56.15	74.00	-17.85	peak
2	2390.000	22.71	31.73	54.44	74.00	-19.56	peak

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



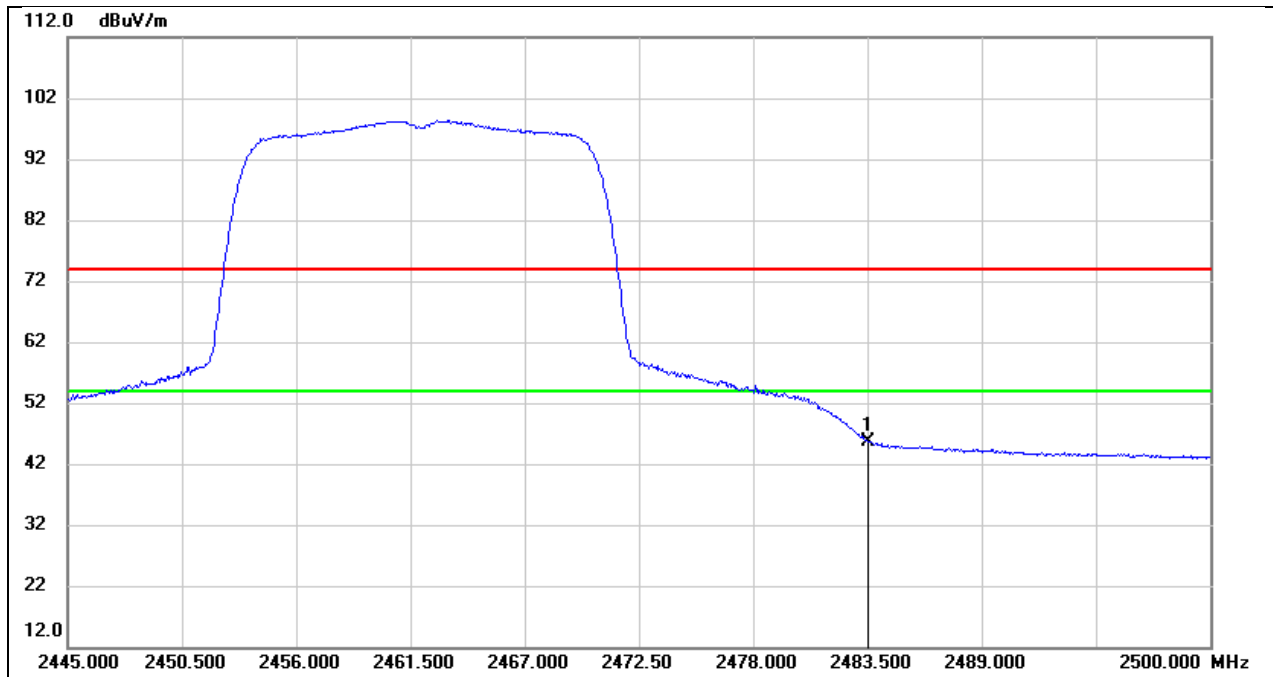
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.320	11.03	31.73	42.76	54.00	-11.24	AVG
2	2390.000	11.03	31.73	42.76	54.00	-11.24	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



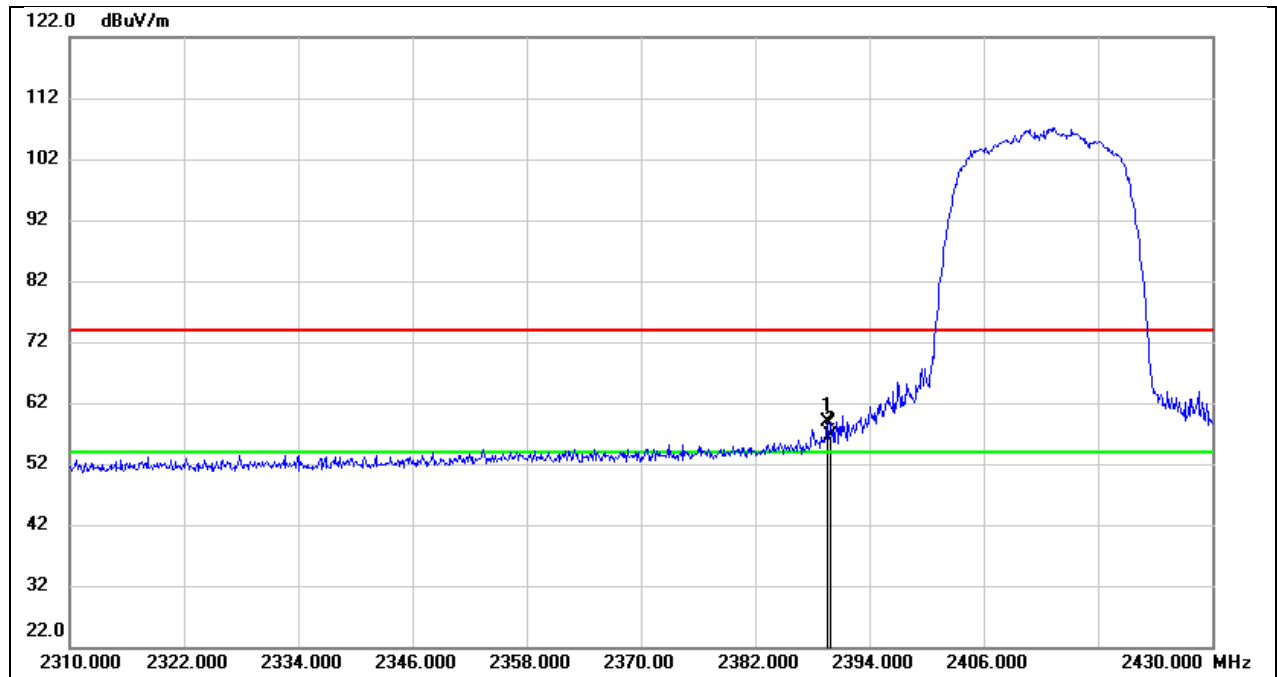
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	29.51	32.00	61.51	74.00	-12.49	peak

Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



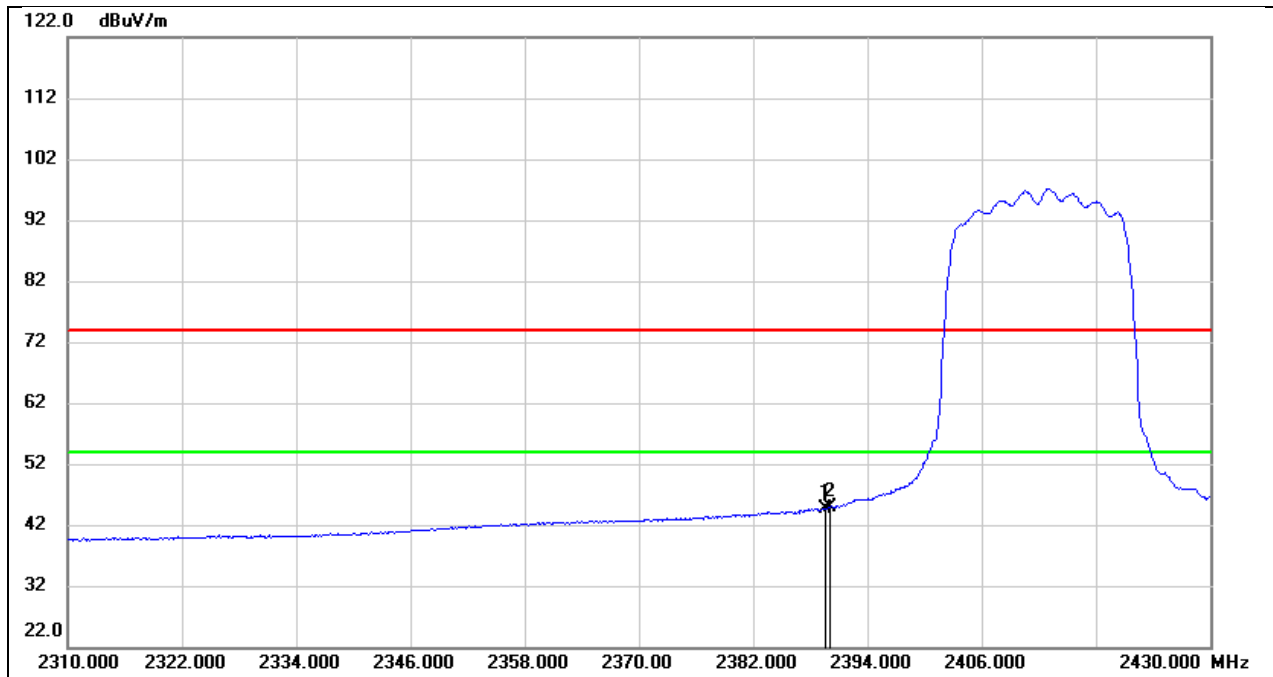
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	13.70	32.00	45.70	54.00	-8.30	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



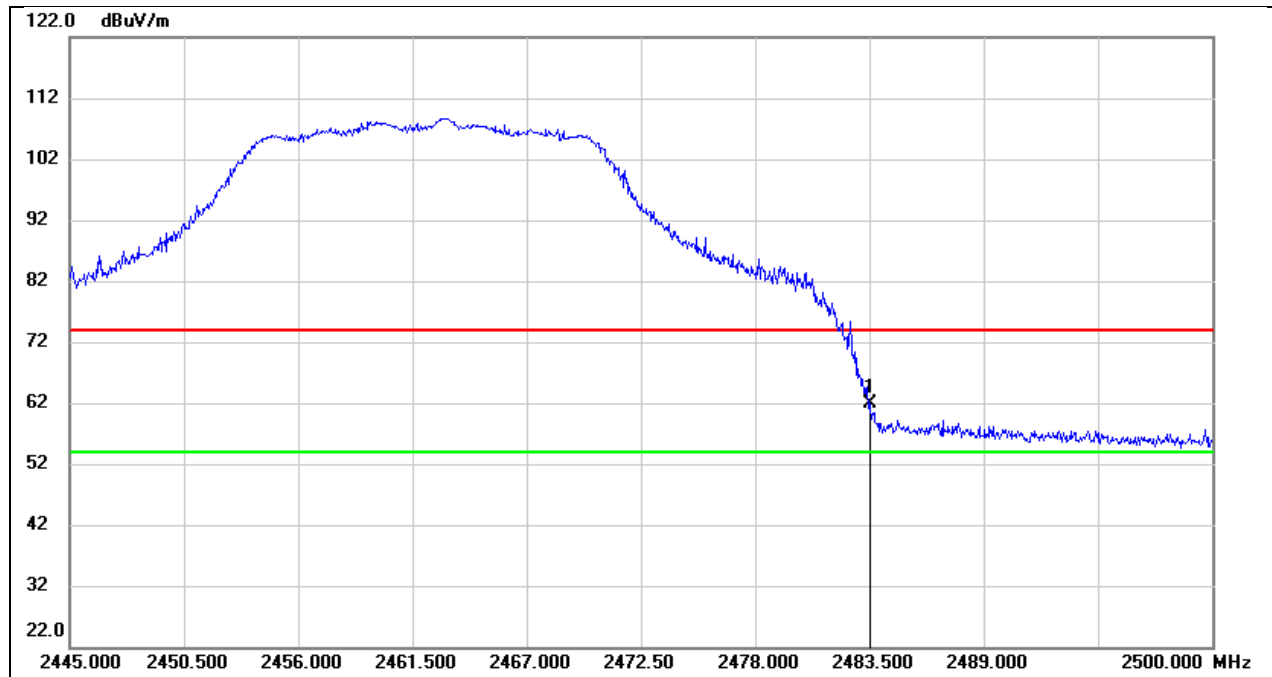
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.560	27.22	31.73	58.95	74.00	-15.05	peak
2	2390.000	24.82	31.73	56.55	74.00	-17.45	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



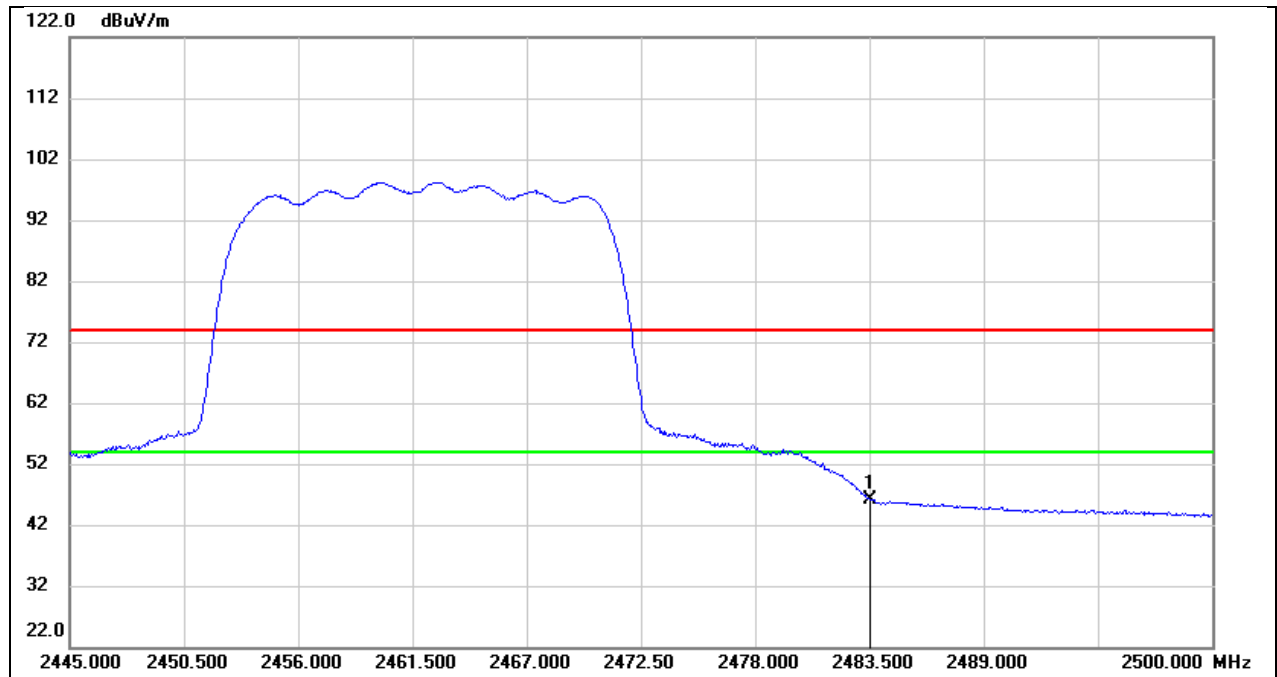
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.560	12.90	31.73	44.63	54.00	-9.37	AVG
2	2390.000	13.19	31.73	44.92	54.00	-9.08	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



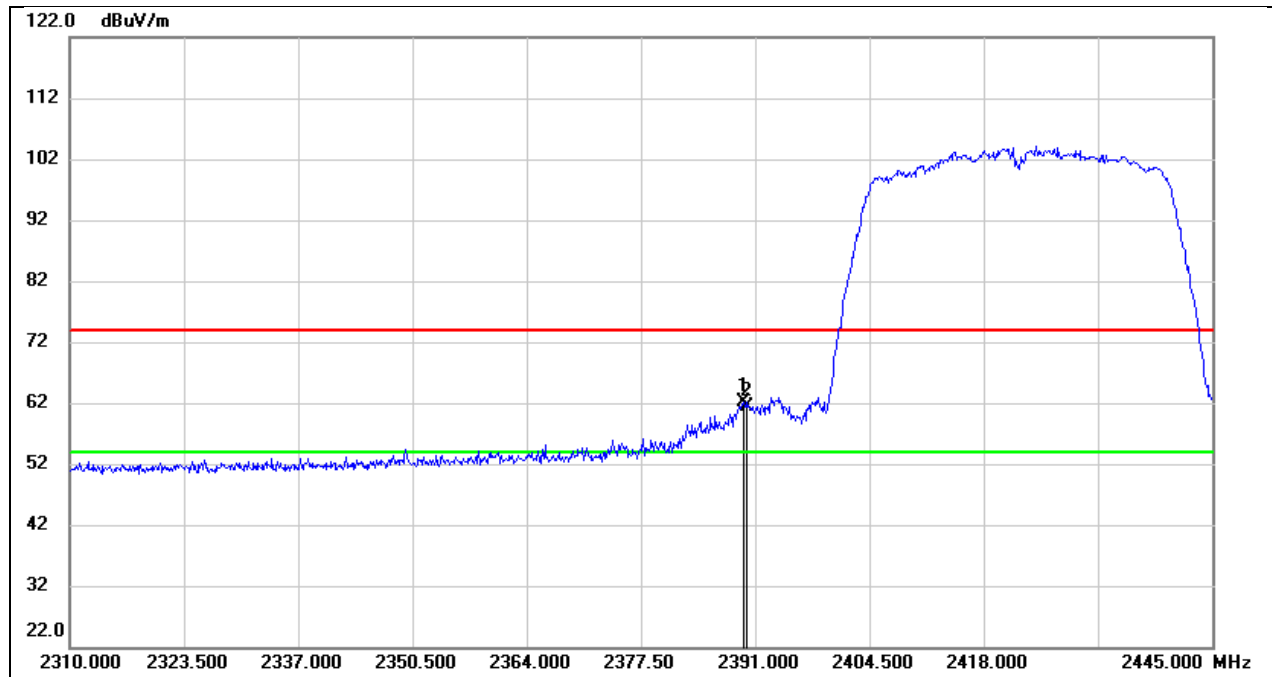
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	29.86	32.00	61.86	74.00	-12.14	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



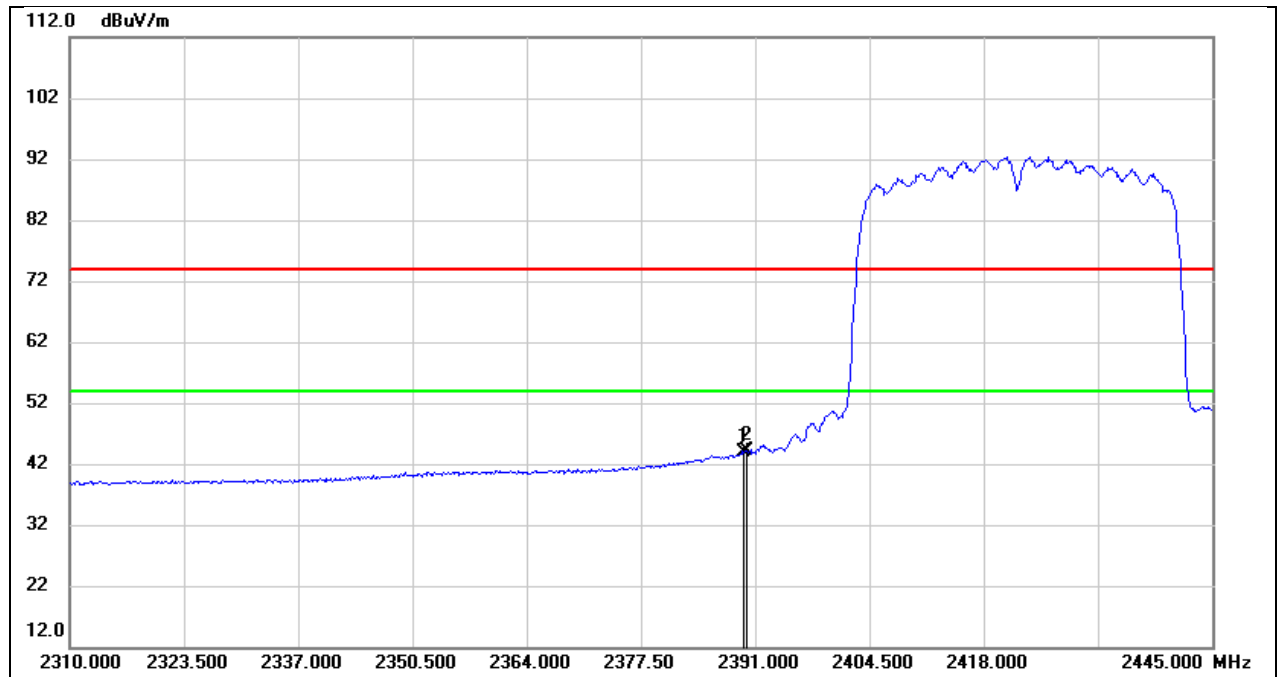
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.19	32.00	46.19	54.00	-7.81	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



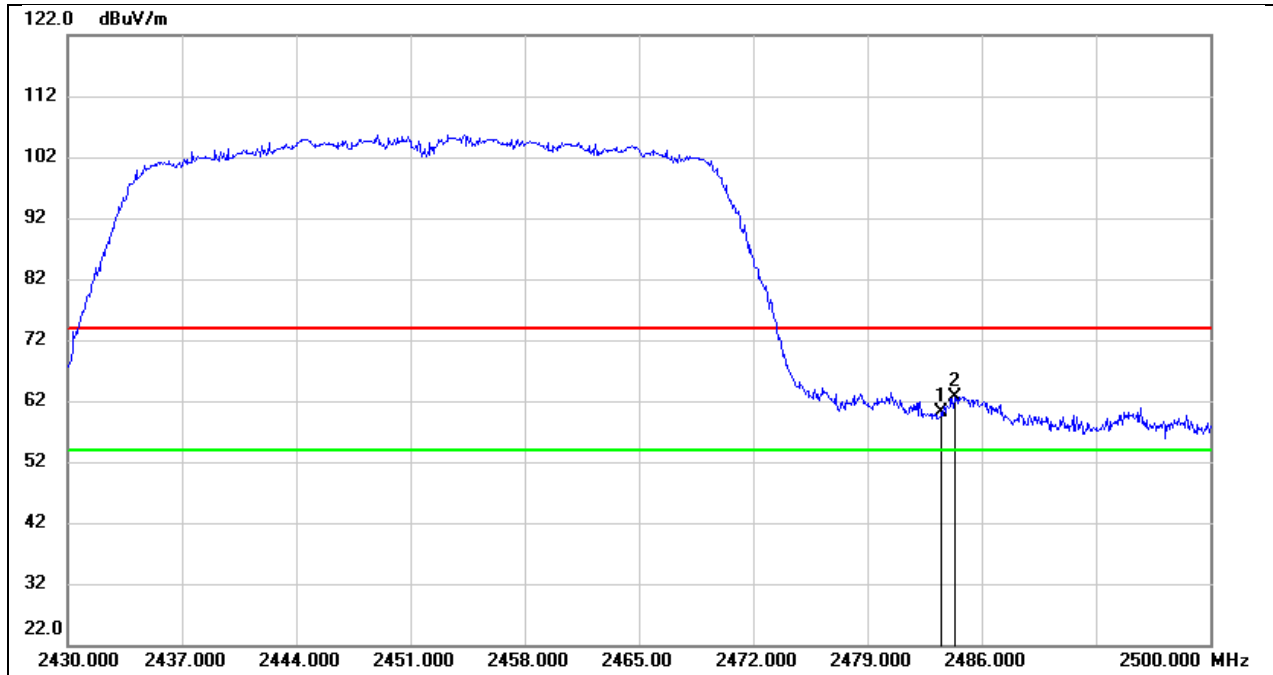
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.650	30.34	31.73	62.07	74.00	-11.93	peak
2	2390.000	29.74	31.73	61.47	74.00	-12.53	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



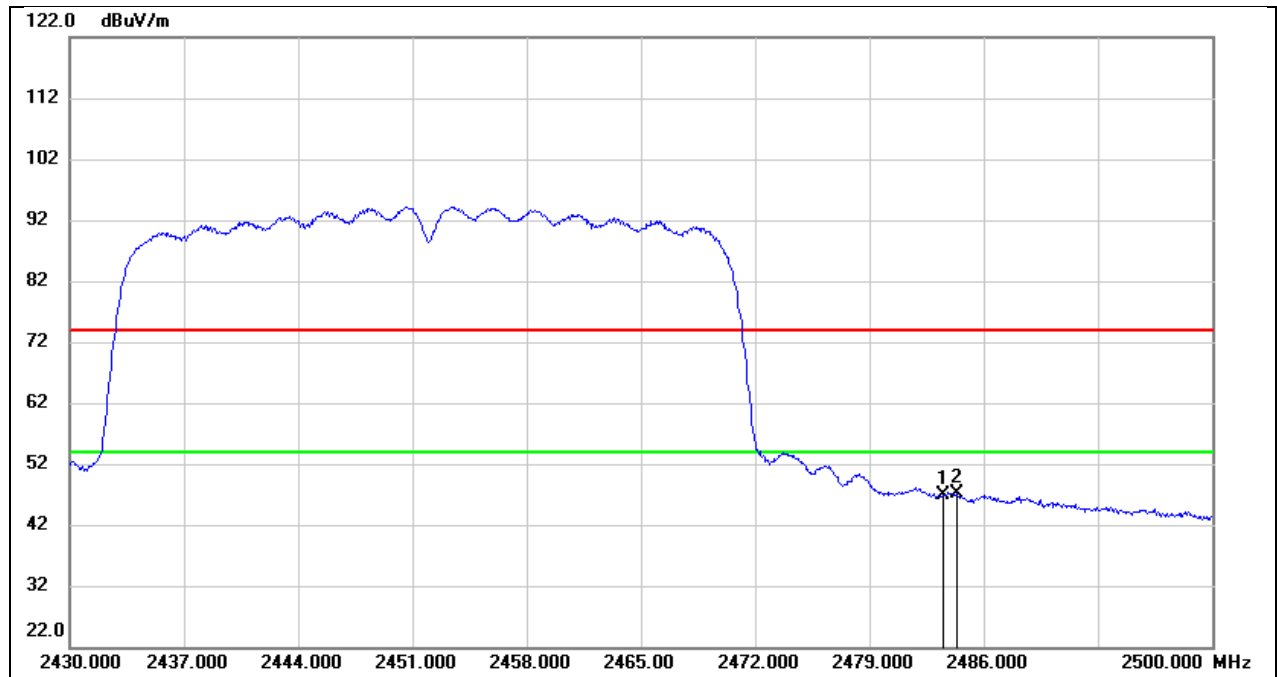
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.650	12.22	31.73	43.95	54.00	-10.05	AVG
2	2390.000	12.31	31.73	44.04	54.00	-9.96	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



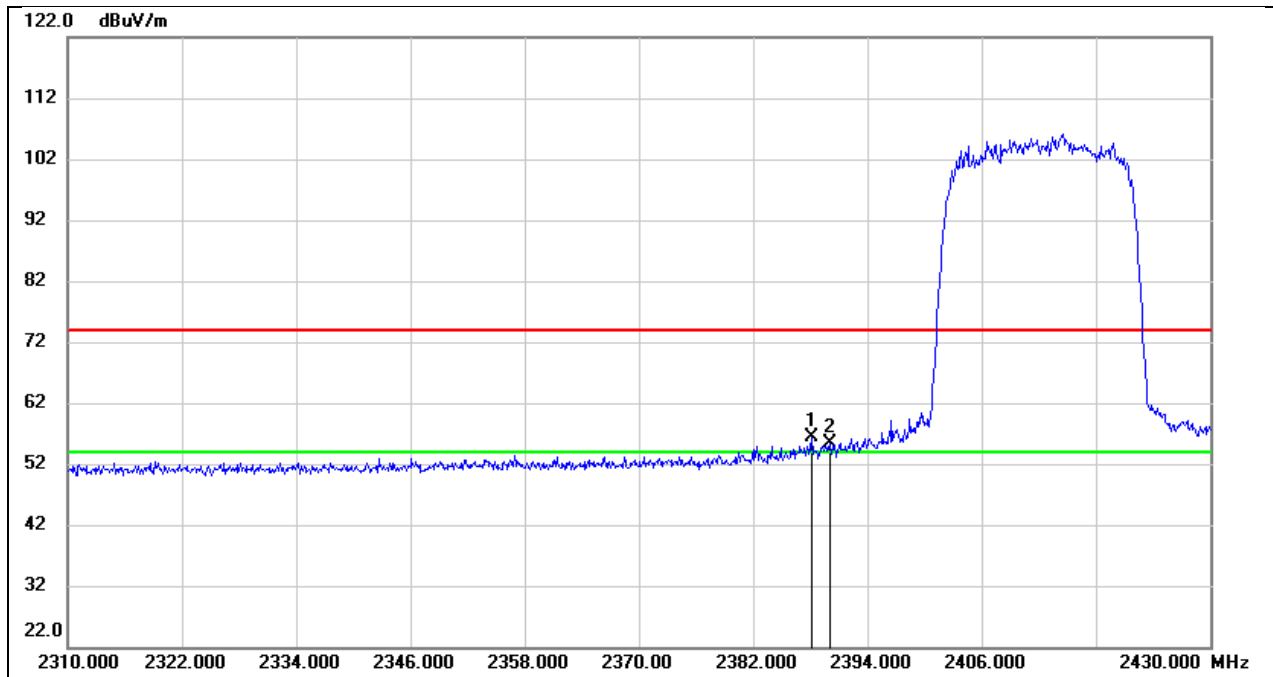
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.11	32.00	60.11	74.00	-13.89	peak
2	2484.320	30.75	32.00	62.75	74.00	-11.25	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



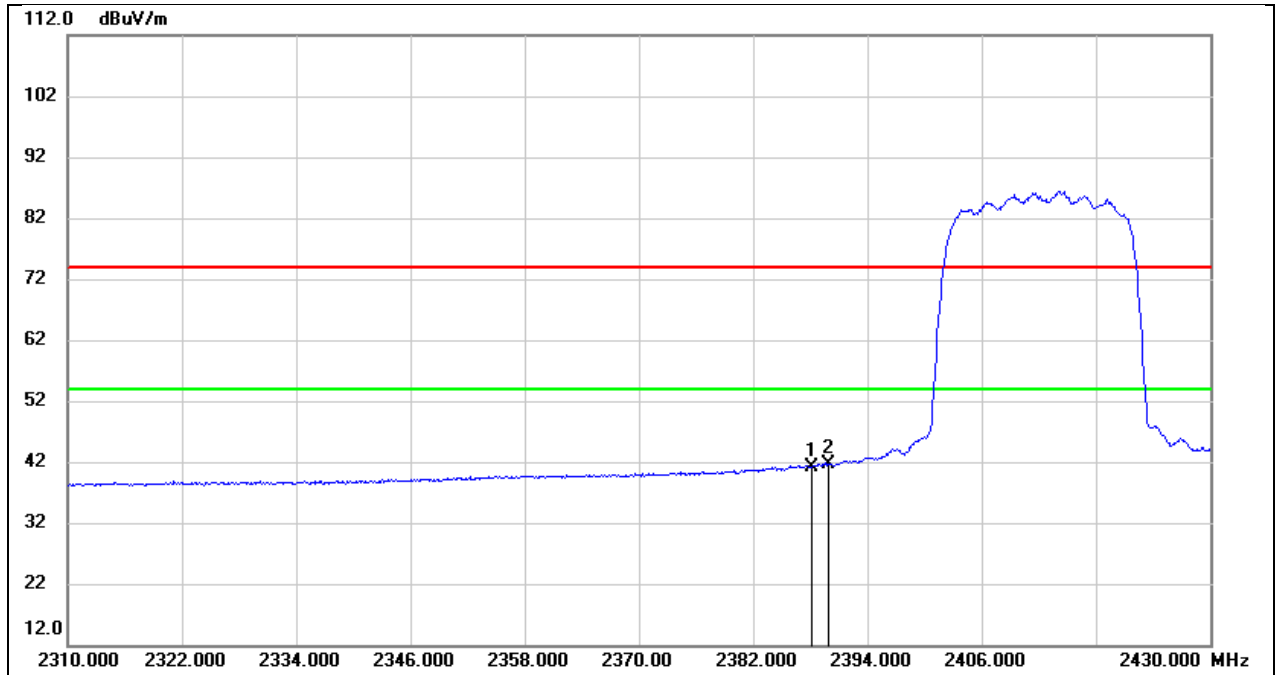
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.92	32.00	46.92	54.00	-7.08	AVG
2	2484.320	15.23	32.00	47.23	54.00	-6.77	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



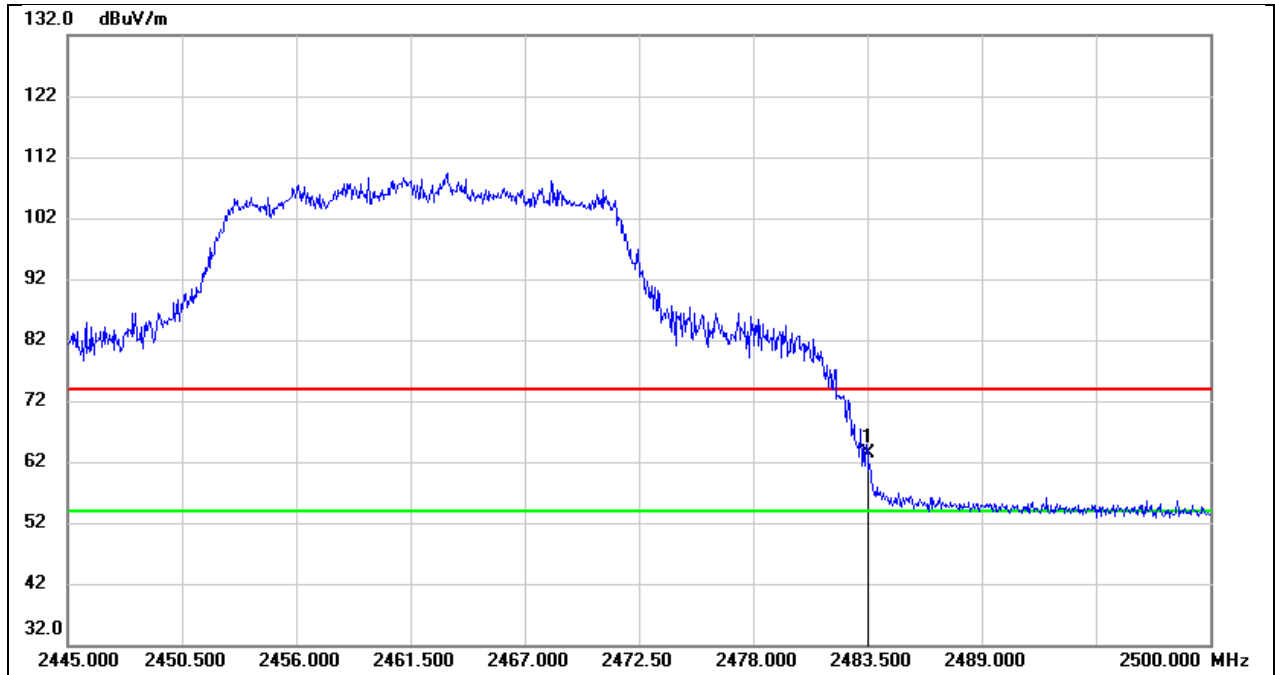
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	24.57	31.73	56.30	74.00	-17.70	peak
2	2390.000	23.73	31.73	55.46	74.00	-18.54	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



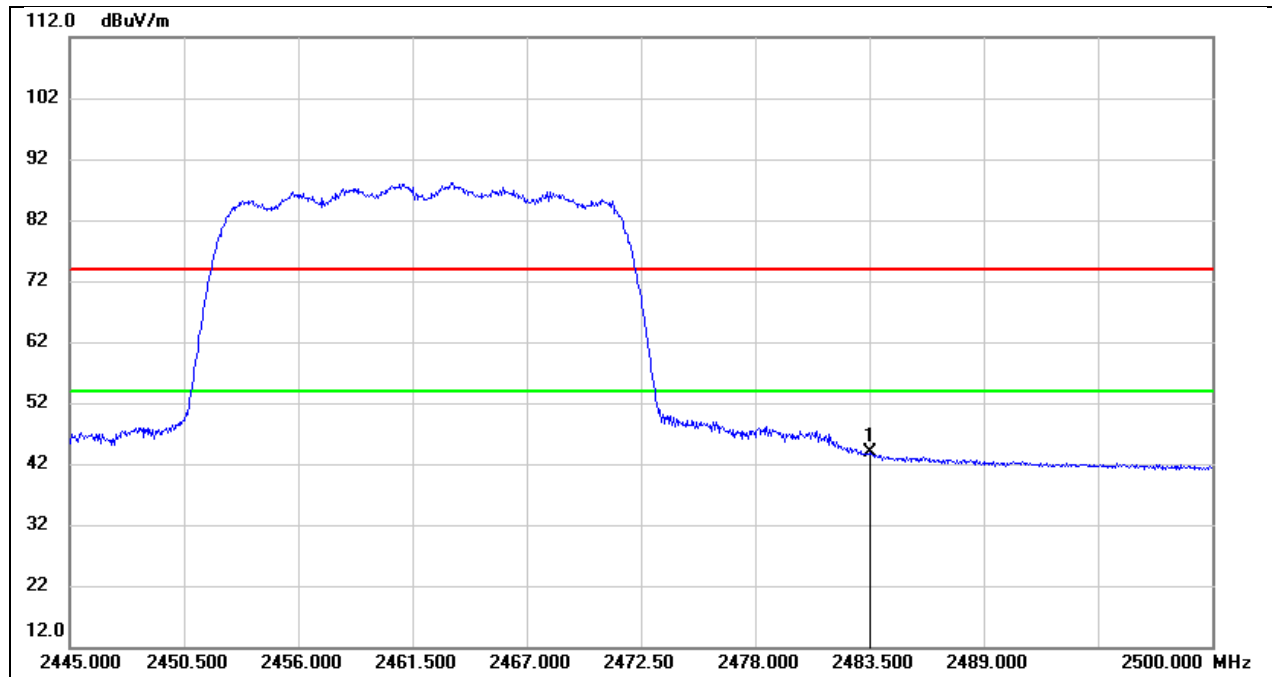
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2388.120	9.44	31.73	41.17	54.00	-12.83	AVG
2	2390.000	9.84	31.73	41.57	54.00	-12.43	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



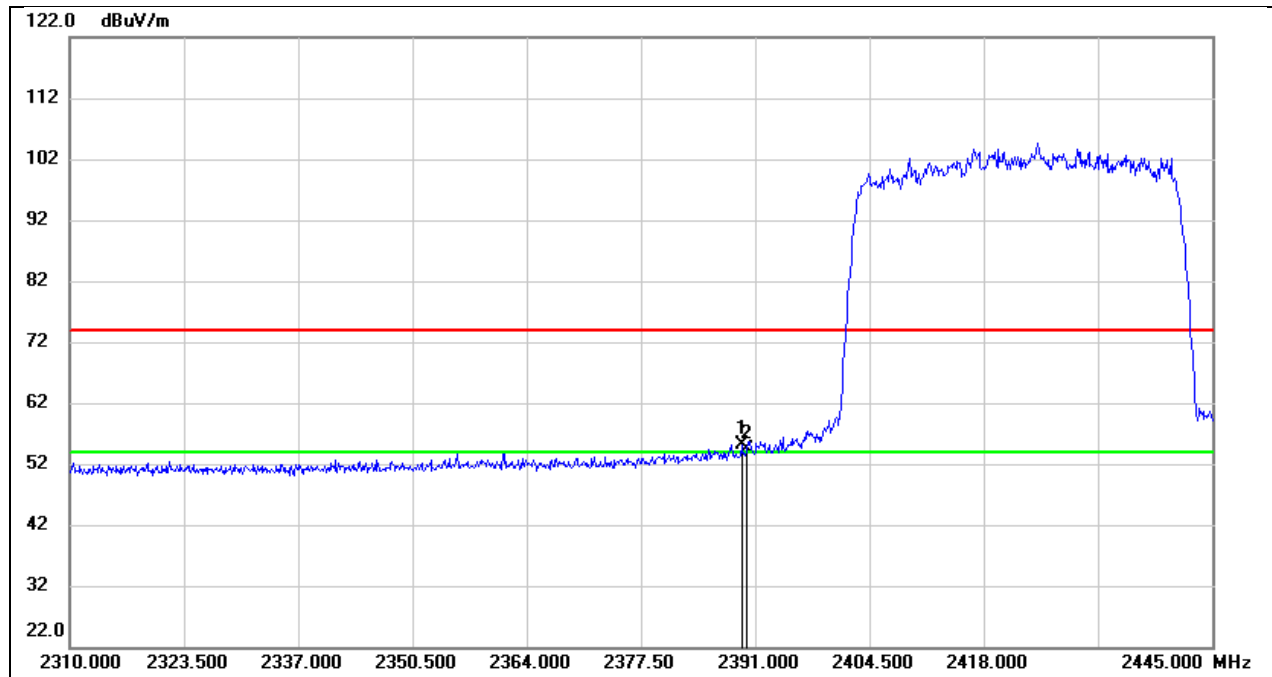
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.41	32.00	63.41	74.00	-10.59	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



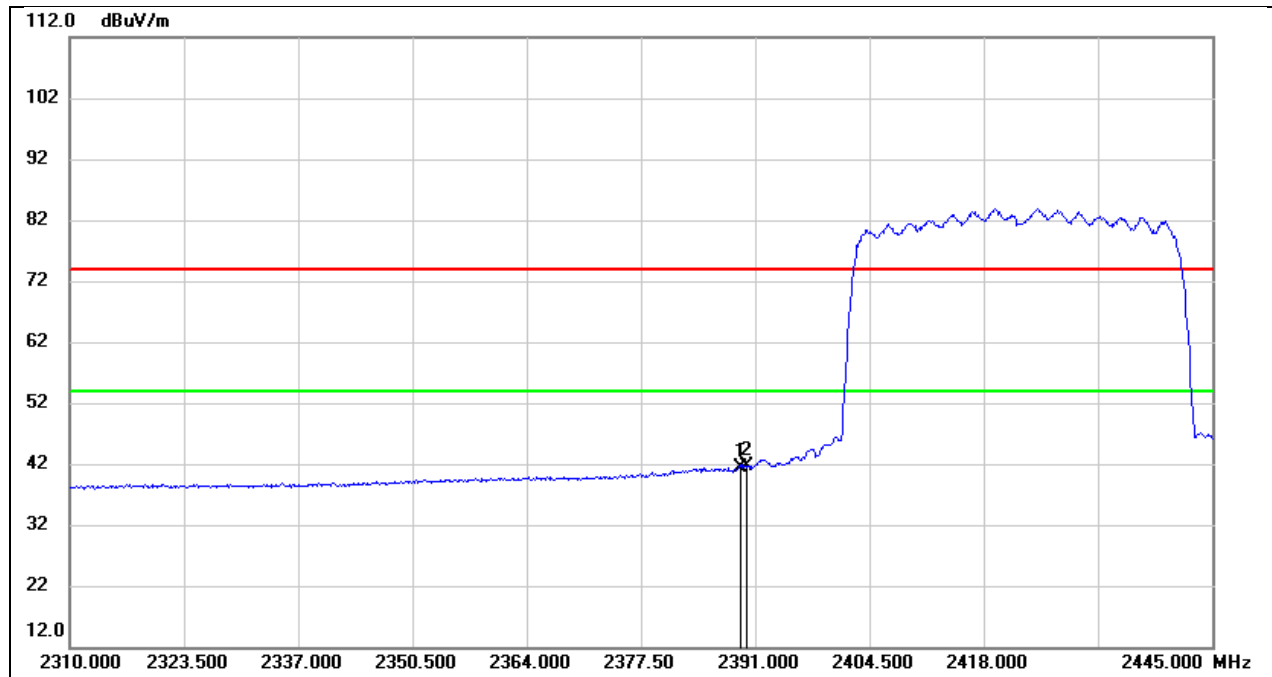
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	11.83	32.00	43.83	54.00	-10.17	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



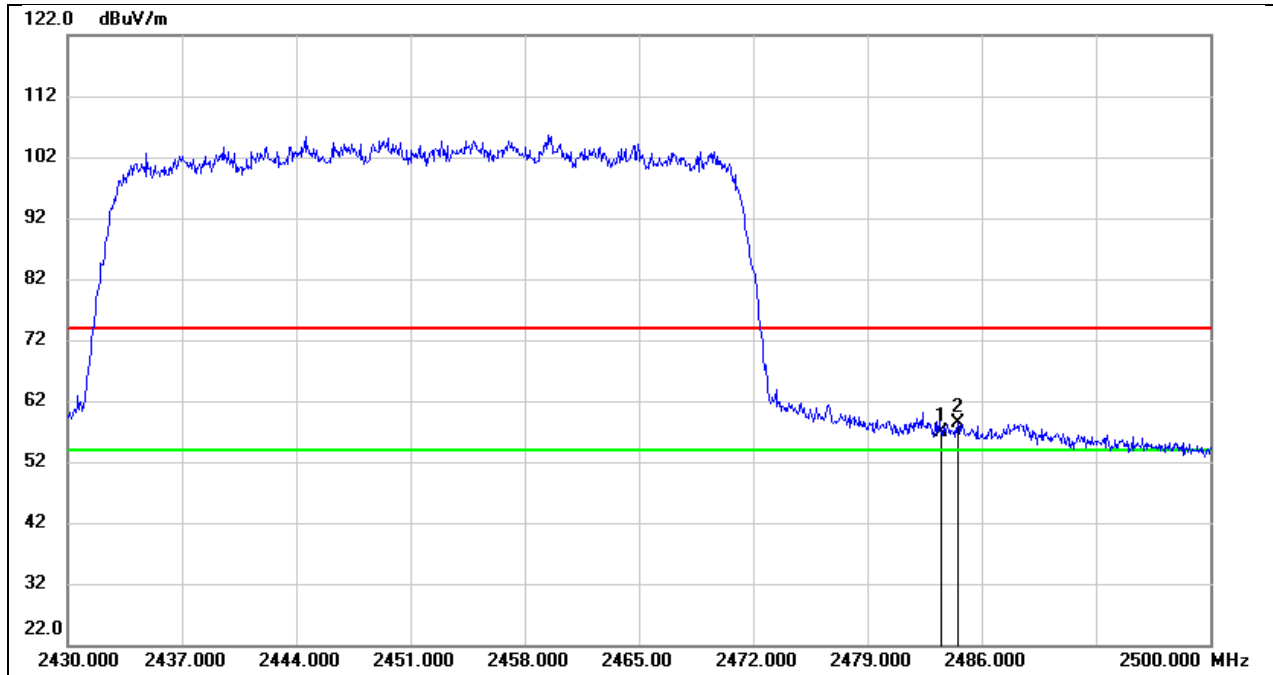
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.380	23.50	31.73	55.23	74.00	-18.77	peak
2	2390.000	22.77	31.73	54.50	74.00	-19.50	peak

Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



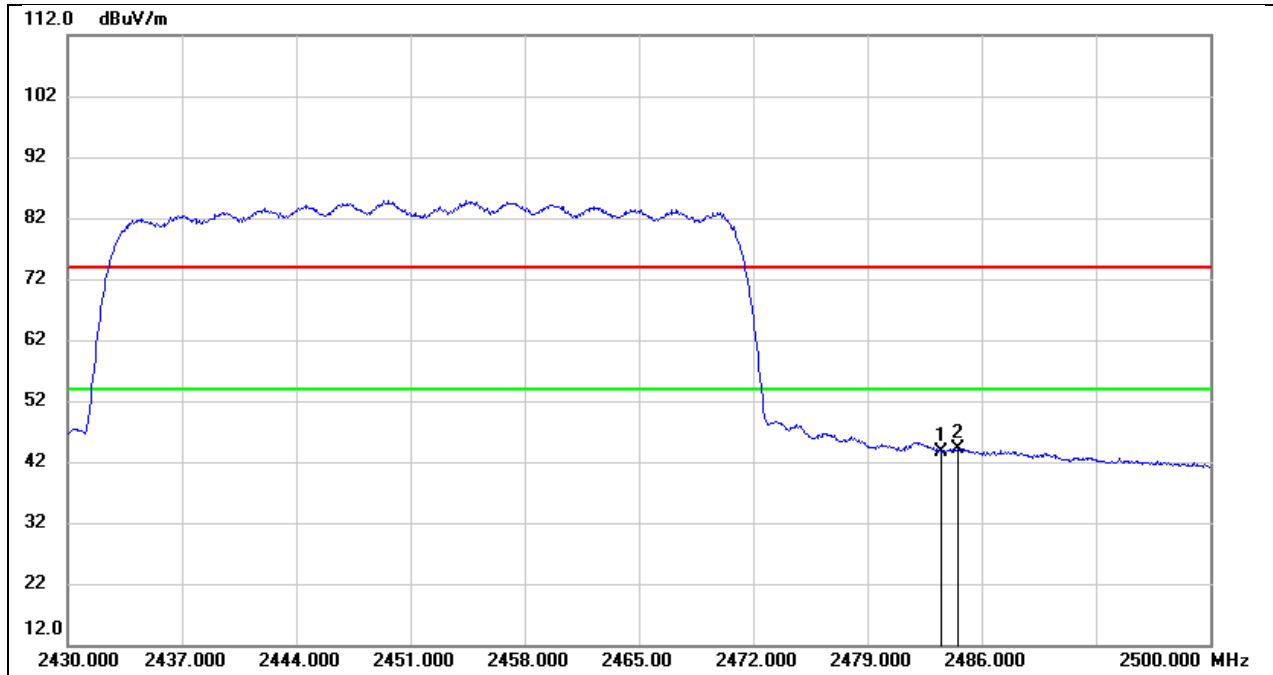
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.380	9.73	31.73	41.46	54.00	-12.54	AVG
2	2390.000	9.81	31.73	41.54	54.00	-12.46	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	24.95	32.00	56.95	74.00	-17.05	peak
2	2484.530	26.47	32.00	58.47	74.00	-15.53	peak

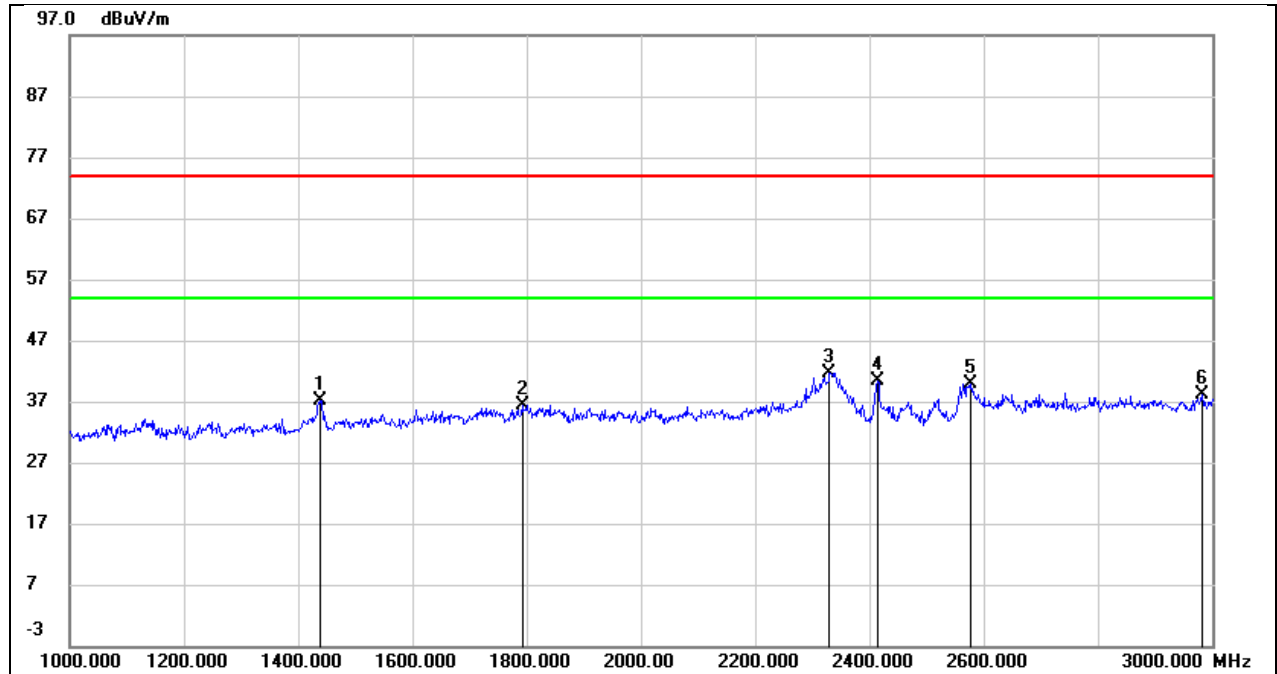
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	11.64	32.00	43.64	54.00	-10.36	AVG
2	2484.530	12.12	32.00	44.12	54.00	-9.88	AVG

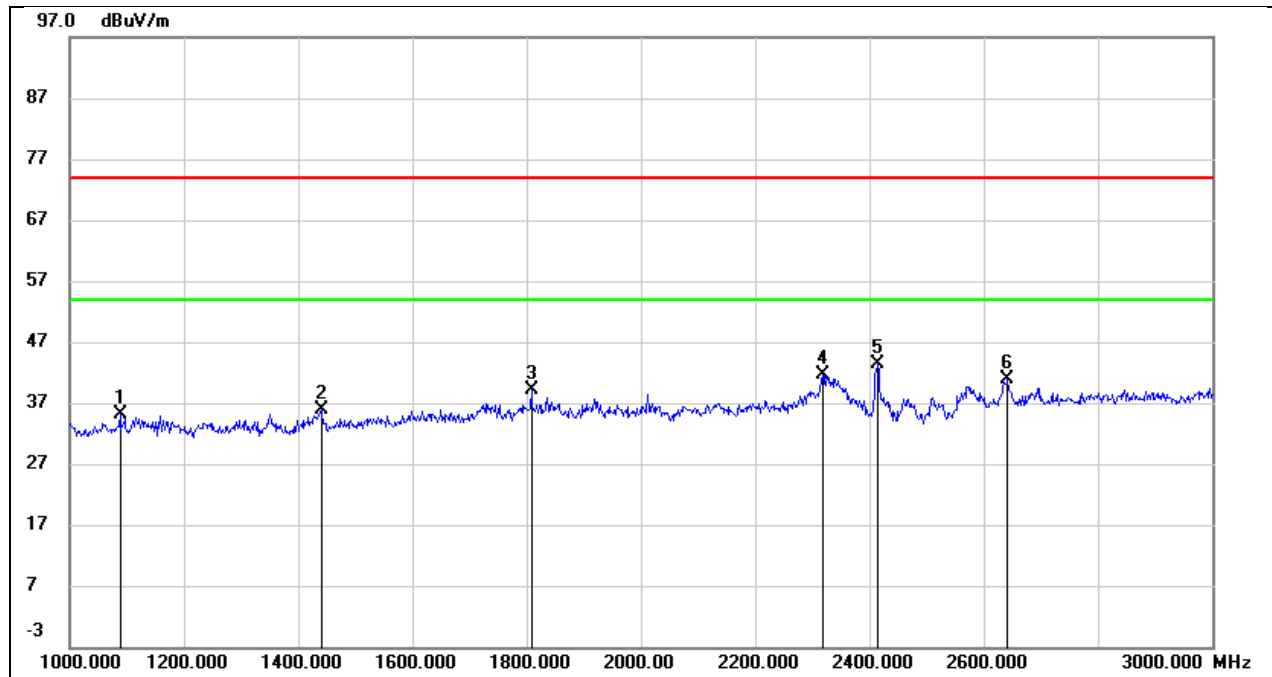
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



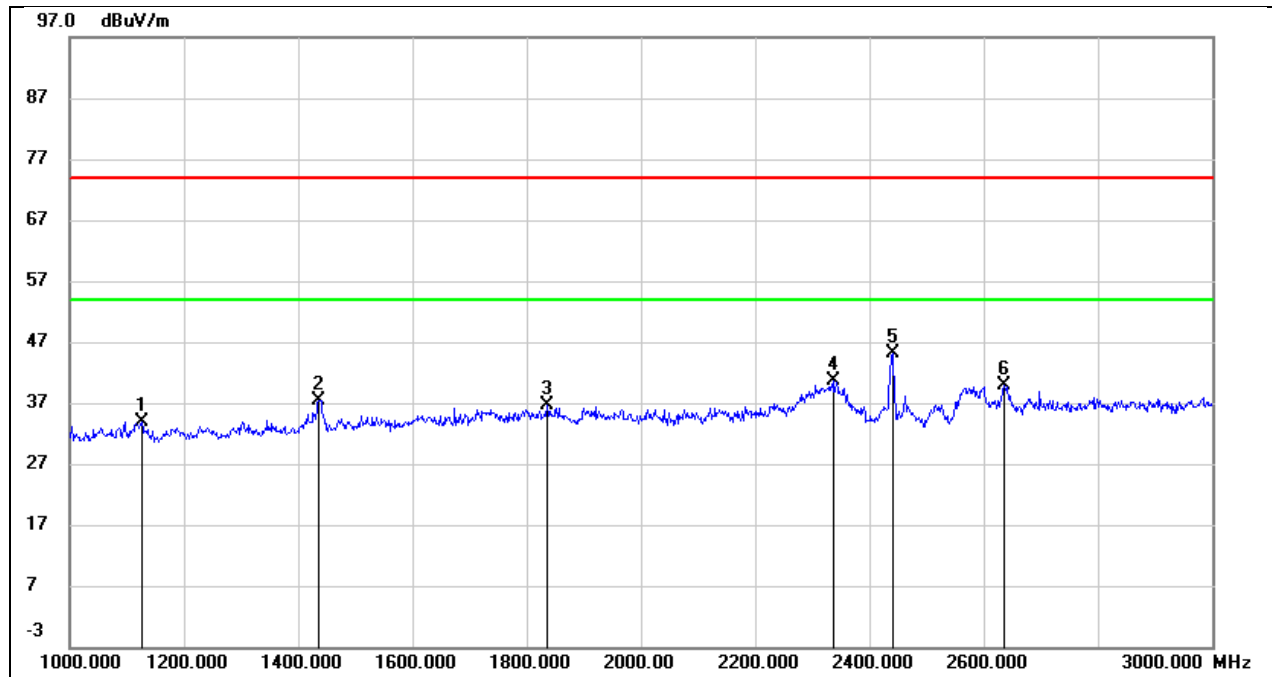
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1438.000	49.38	-12.24	37.14	74.00	-36.86	peak
2	1792.000	46.41	-10.02	36.39	74.00	-37.61	peak
3	2330.000	50.58	-8.85	41.73	74.00	-32.27	peak
4	2412.000	48.80	-8.53	40.27	/	/	Fundamental
5	2578.000	47.64	-7.86	39.78	74.00	-34.22	peak
6	2982.000	44.29	-6.09	38.20	74.00	-35.80	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



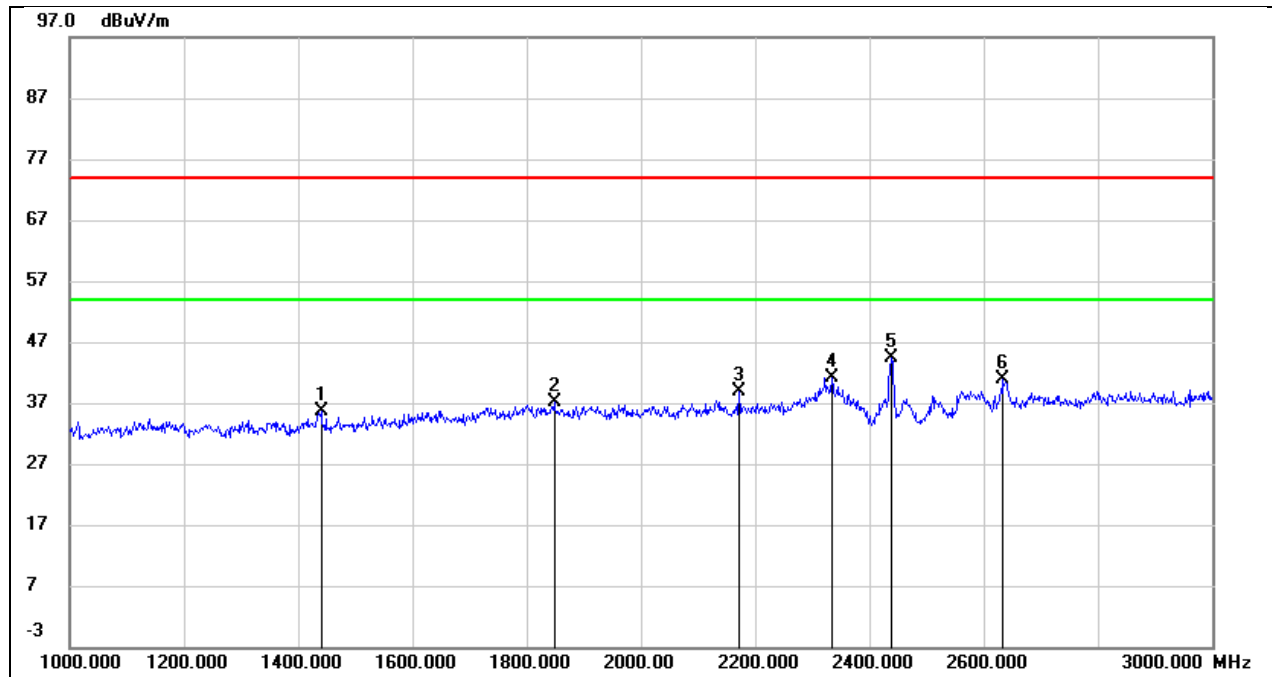
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1088.000	48.46	-13.41	35.05	74.00	-38.95	peak
2	1440.000	47.87	-12.06	35.81	74.00	-38.19	peak
3	1808.000	48.38	-9.37	39.01	74.00	-34.99	peak
4	2318.000	49.73	-8.06	41.67	74.00	-32.33	peak
5	2412.000	51.19	-7.71	43.48	/	/	Fundamental
6	2642.000	47.49	-6.64	40.85	74.00	-33.15	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



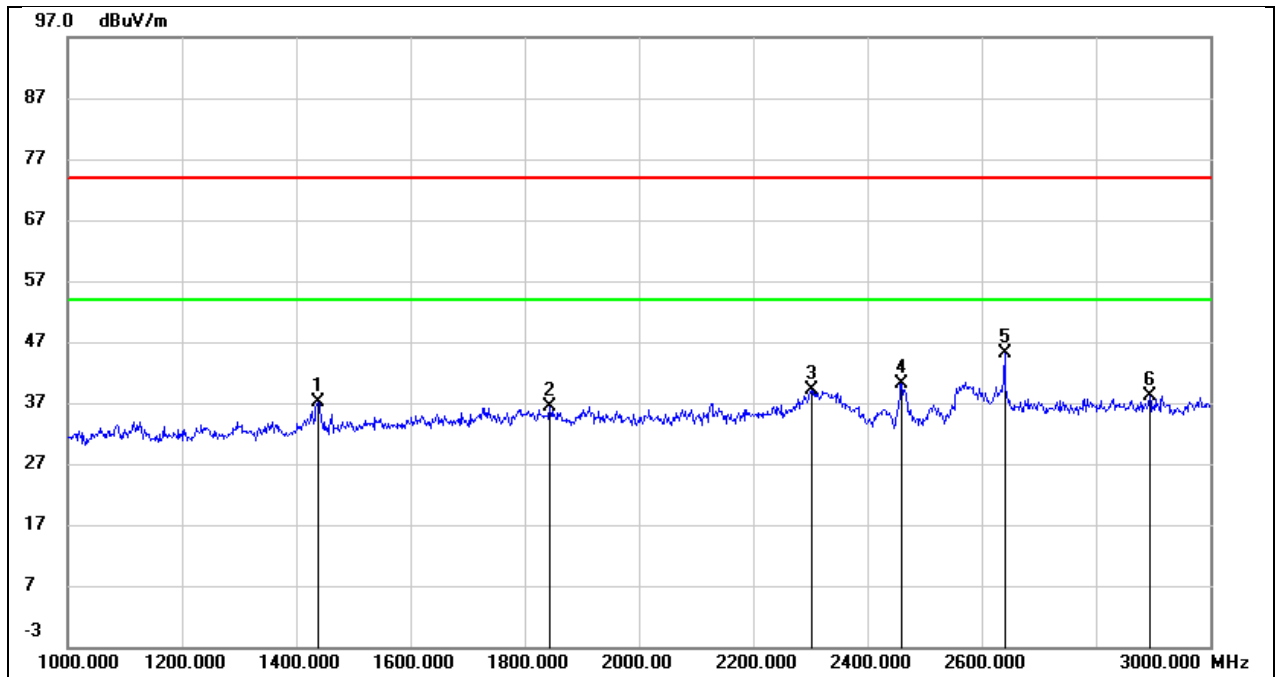
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1126.000	47.68	-13.82	33.86	74.00	-40.14	peak
2	1436.000	49.68	-12.25	37.43	74.00	-36.57	peak
3	1836.000	46.58	-9.98	36.60	74.00	-37.40	peak
4	2338.000	49.49	-8.82	40.67	74.00	-33.33	peak
5	2437.000	53.56	-8.44	45.12	/	/	Fundamental
6	2636.000	47.46	-7.61	39.85	74.00	-34.15	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



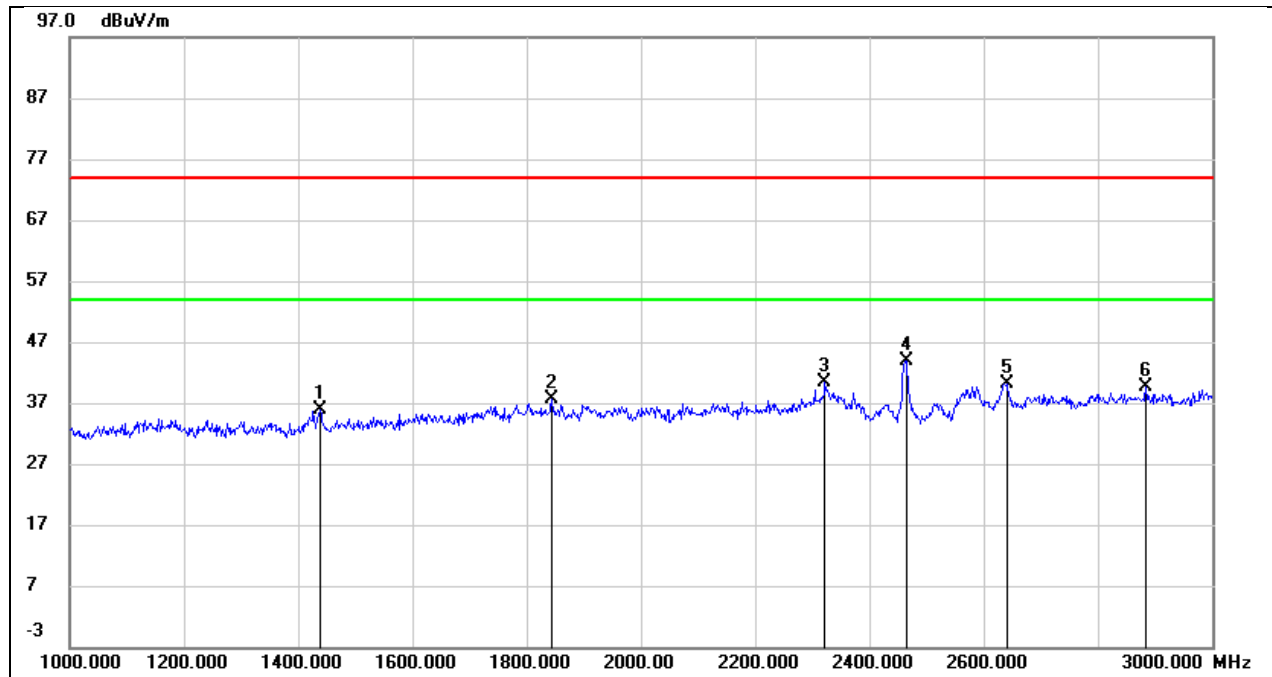
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1440.000	47.67	-12.06	35.61	74.00	-38.39	peak
2	1848.000	46.42	-9.34	37.08	74.00	-36.92	peak
3	2172.000	47.35	-8.58	38.77	74.00	-35.23	peak
4	2334.000	49.13	-8.01	41.12	74.00	-32.88	peak
5	2437.000	52.04	-7.63	44.41	/	/	Fundamental
6	2634.000	47.58	-6.69	40.89	74.00	-33.11	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1438.000	49.48	-12.24	37.24	74.00	-36.76	peak
2	1844.000	46.44	-9.99	36.45	74.00	-37.55	peak
3	2302.000	48.10	-8.96	39.14	74.00	-34.86	peak
4	2462.000	48.49	-8.36	40.13	/	/	Fundamental
5	2640.000	52.73	-7.60	45.13	74.00	-28.87	peak
6	2894.000	44.66	-6.49	38.17	74.00	-35.83	peak

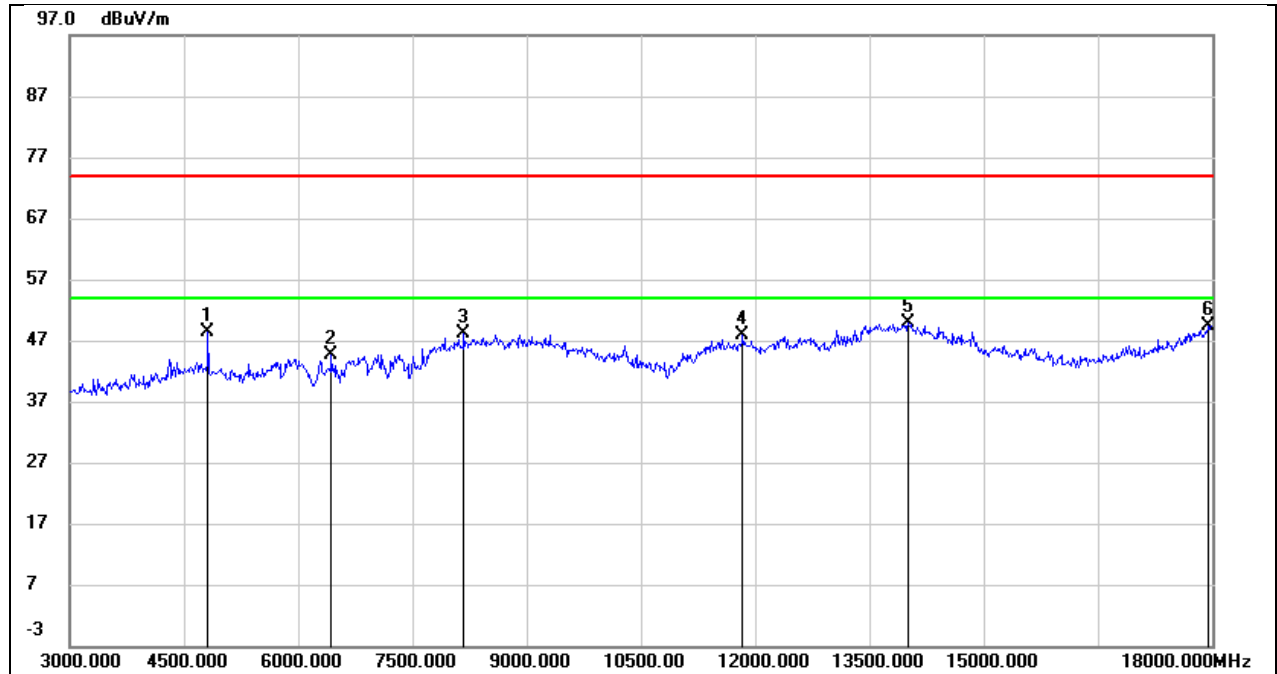
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1438.000	47.93	-12.06	35.87	74.00	-38.13	peak
2	1844.000	46.85	-9.34	37.51	74.00	-36.49	peak
3	2322.000	48.46	-8.05	40.41	74.00	-33.59	peak
4	2462.000	51.37	-7.53	43.84	/	/	Fundamental
5	2640.000	46.89	-6.66	40.23	74.00	-33.77	peak
6	2884.000	44.88	-5.36	39.52	74.00	-34.48	peak

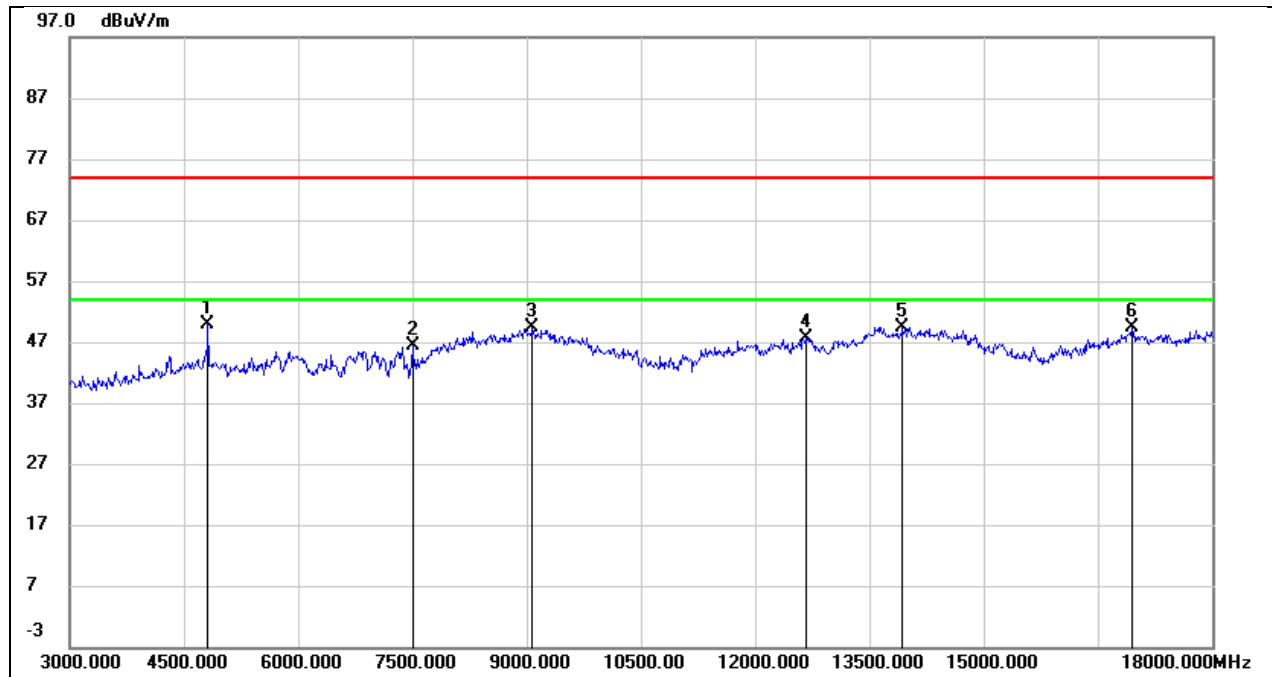
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



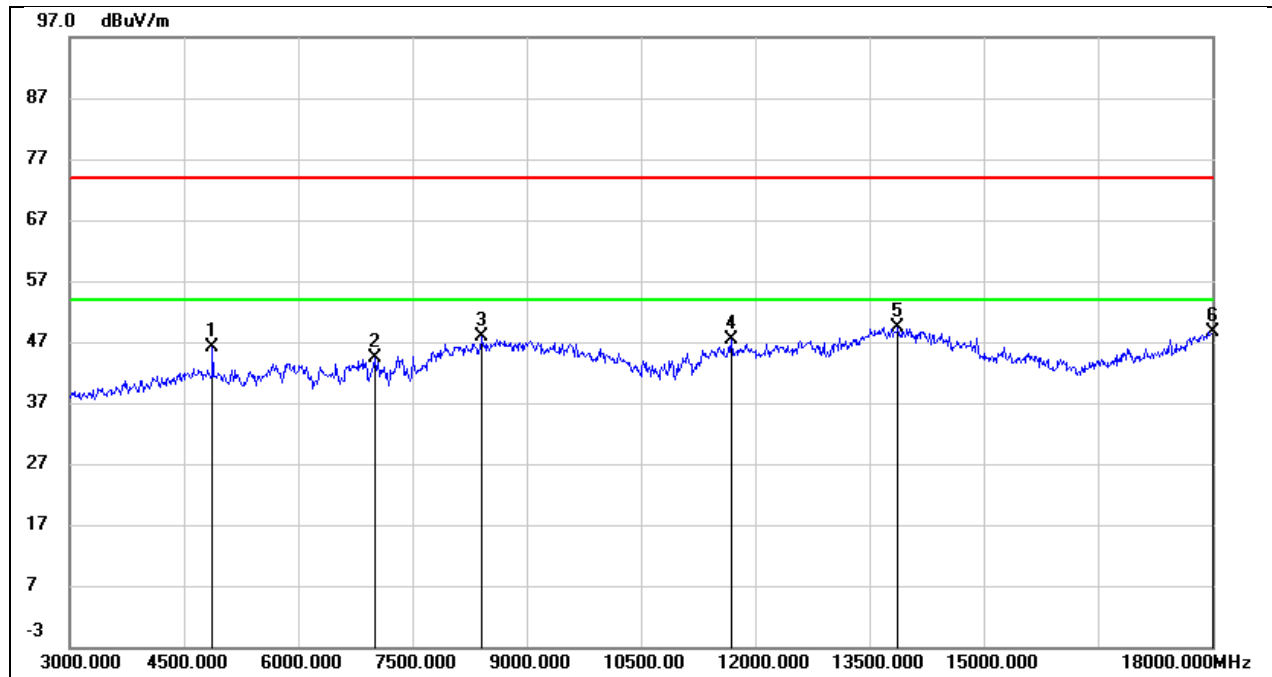
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	47.95	0.50	48.45	74.00	-25.55	peak
2	6435.000	40.12	4.51	44.63	74.00	-29.37	peak
3	8175.000	39.60	8.47	48.07	74.00	-25.93	peak
4	11835.000	29.30	18.54	47.84	74.00	-26.16	peak
5	14010.000	26.11	23.78	49.89	74.00	-24.11	peak
6	17955.000	20.22	29.18	49.40	74.00	-24.60	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



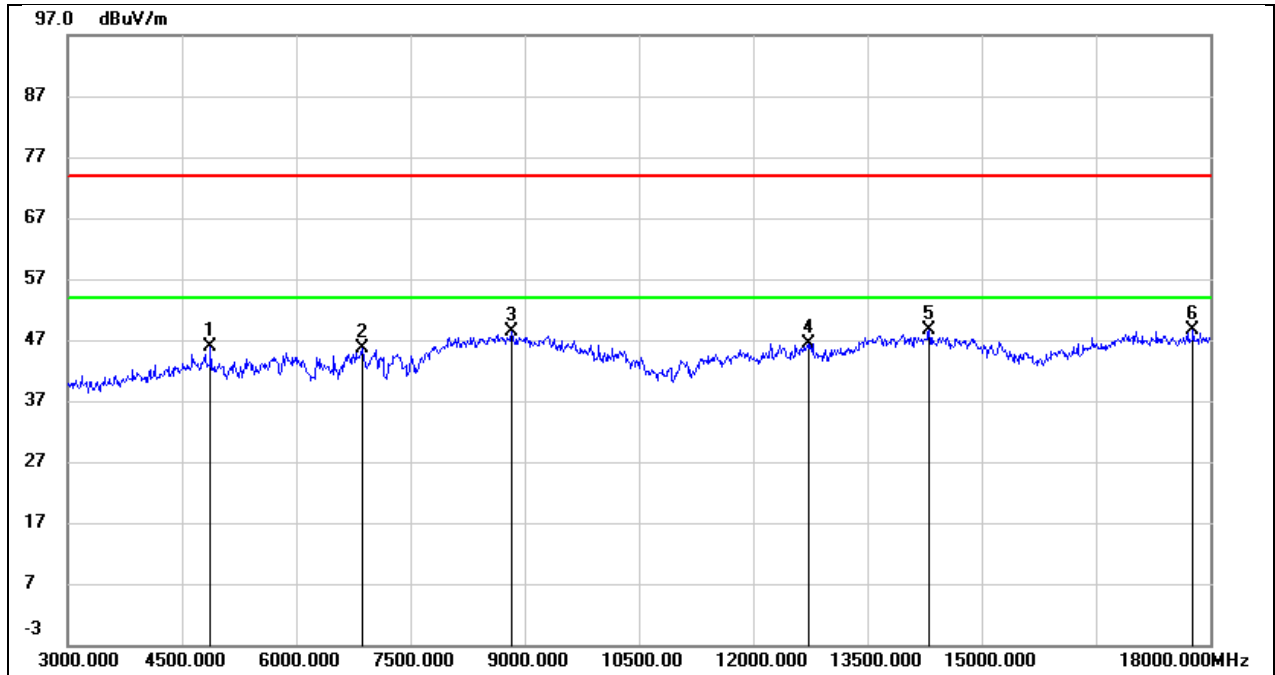
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	48.24	1.59	49.83	74.00	-24.17	peak
2	7500.000	38.46	7.89	46.35	74.00	-27.65	peak
3	9075.000	38.42	10.86	49.28	74.00	-24.72	peak
4	12660.000	29.47	18.13	47.60	74.00	-26.40	peak
5	13935.000	27.57	21.91	49.48	74.00	-24.52	peak
6	16950.000	24.24	25.12	49.36	74.00	-24.64	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



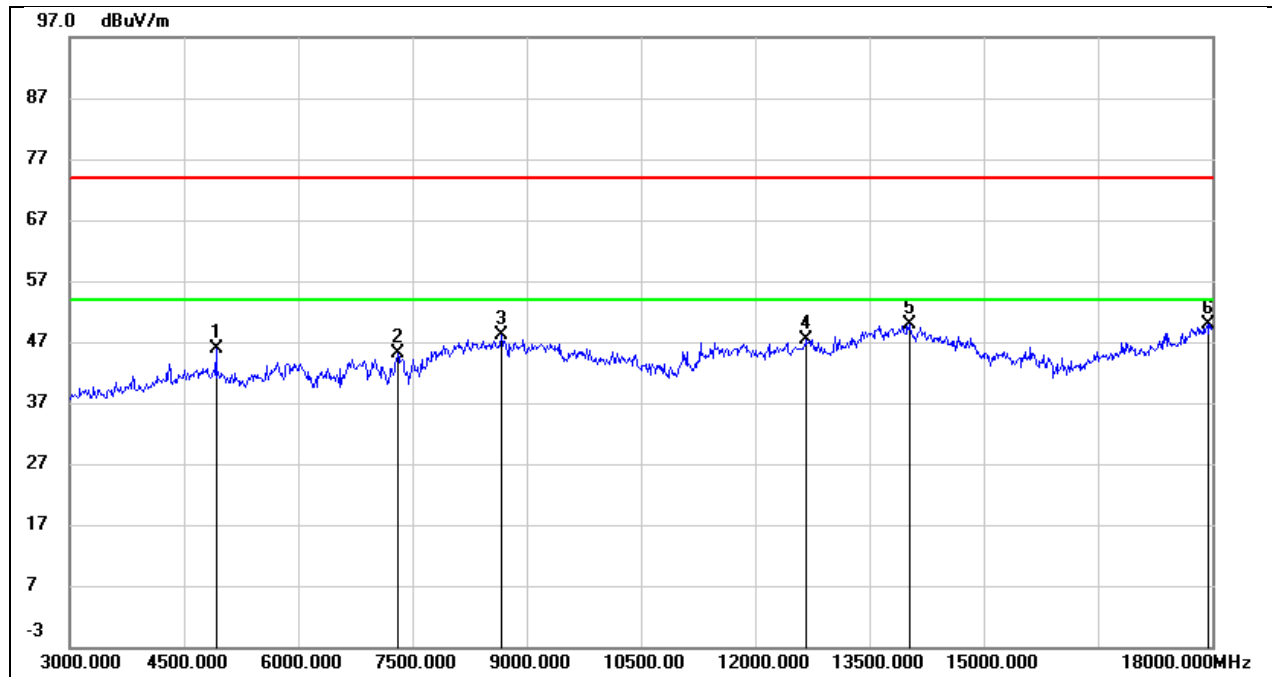
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	45.53	0.65	46.18	74.00	-27.82	peak
2	7005.000	38.00	6.37	44.37	74.00	-29.63	peak
3	8415.000	38.85	8.91	47.76	74.00	-26.24	peak
4	11685.000	28.98	18.31	47.29	74.00	-26.71	peak
5	13875.000	26.15	23.26	49.41	74.00	-24.59	peak
6	18000.000	18.96	29.64	48.60	74.00	-25.40	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



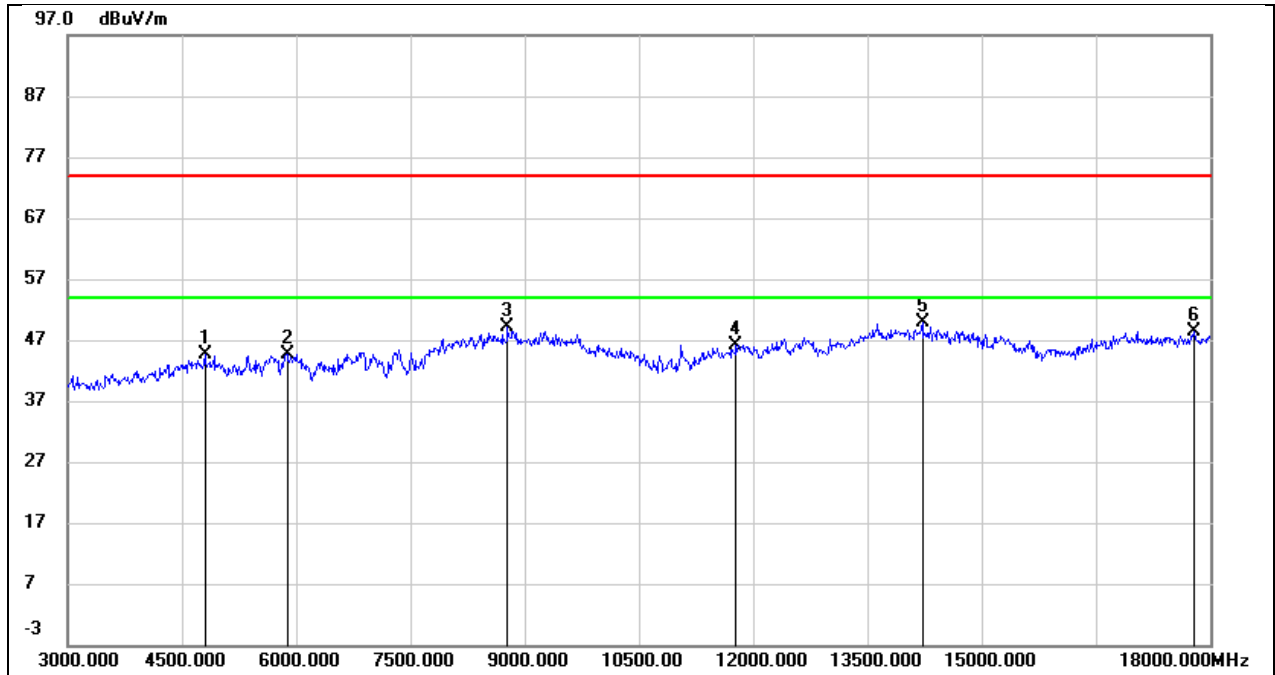
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	44.10	1.78	45.88	74.00	-28.12	peak
2	6870.000	38.59	6.92	45.51	74.00	-28.49	peak
3	8820.000	38.32	10.10	48.42	74.00	-25.58	peak
4	12720.000	28.23	18.26	46.49	74.00	-27.51	peak
5	14310.000	26.62	21.97	48.59	74.00	-25.41	peak
6	17775.000	22.33	26.21	48.54	74.00	-25.46	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



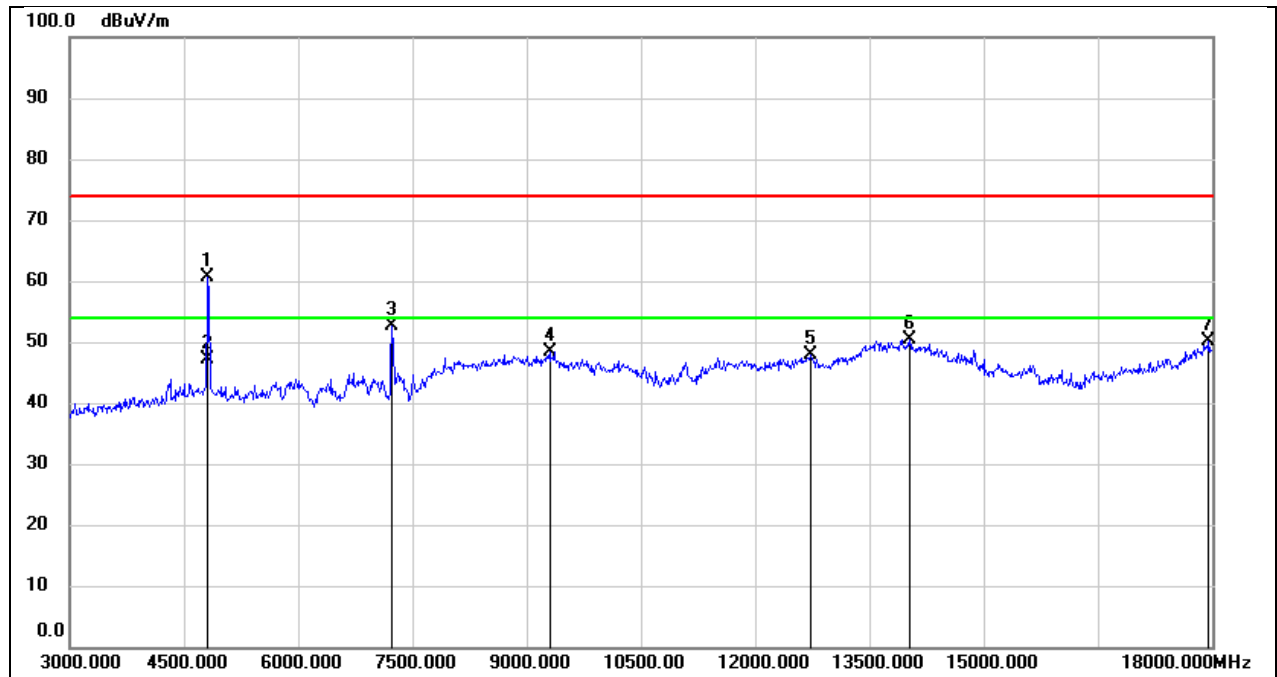
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	45.20	0.76	45.96	74.00	-28.04	peak
2	7305.000	38.21	7.03	45.24	74.00	-28.76	peak
3	8670.000	38.70	9.40	48.10	74.00	-25.90	peak
4	12675.000	28.18	19.18	47.36	74.00	-26.64	peak
5	14025.000	26.04	23.74	49.78	74.00	-24.22	peak
6	17940.000	20.87	29.03	49.90	74.00	-24.10	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.3V



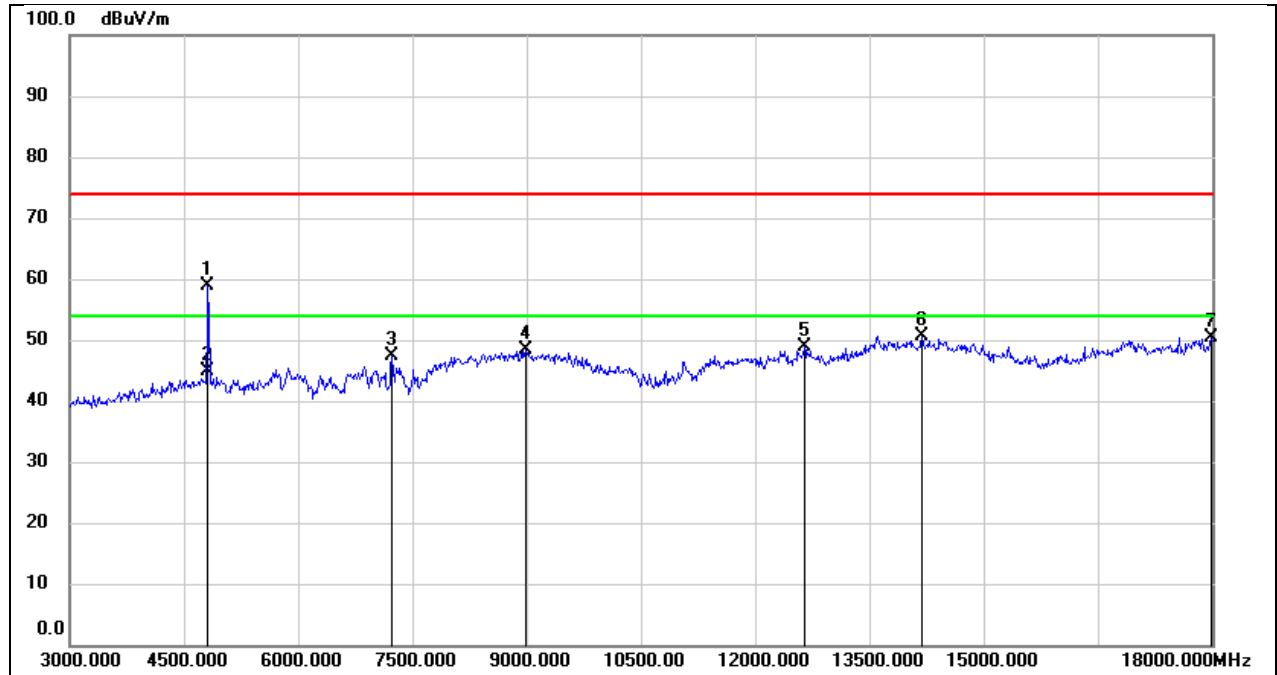
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	43.11	1.55	44.66	74.00	-29.34	peak
2	5880.000	40.78	3.95	44.73	74.00	-29.27	peak
3	8775.000	39.16	10.02	49.18	74.00	-24.82	peak
4	11775.000	29.07	17.17	46.24	74.00	-27.76	peak
5	14220.000	27.60	22.22	49.82	74.00	-24.18	peak
6	17790.000	22.07	26.25	48.32	74.00	-25.68	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



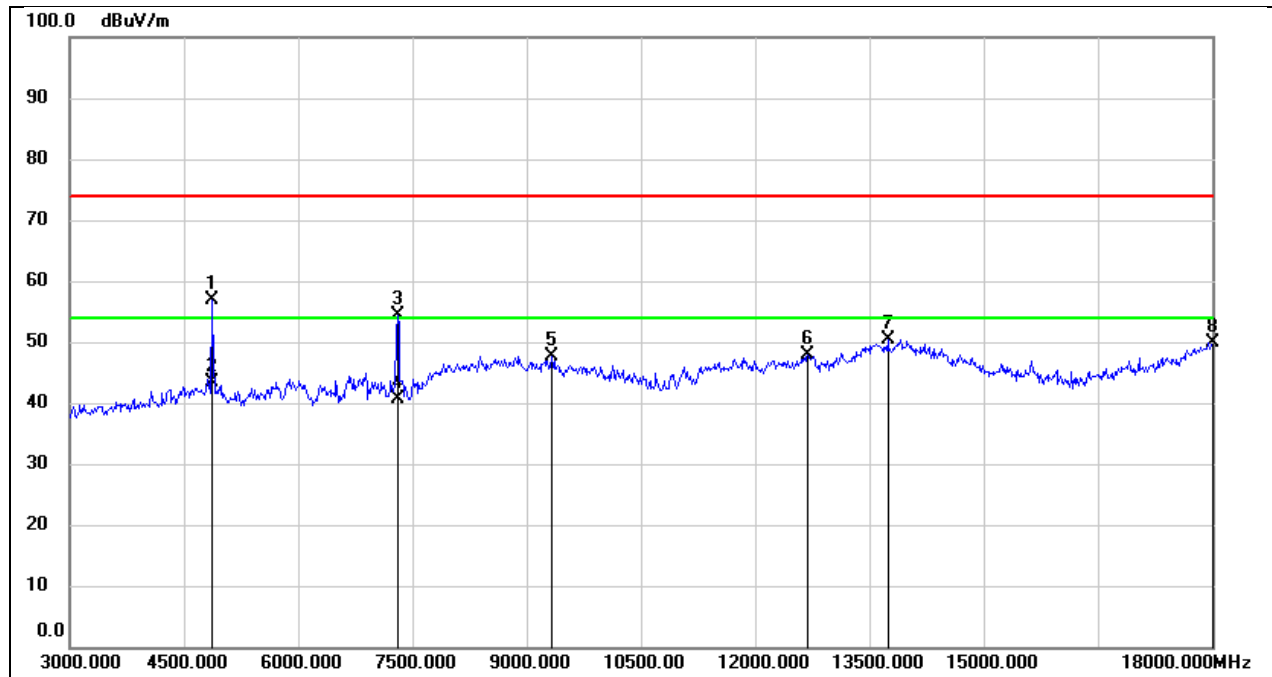
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	60.22	0.50	60.72	74.00	-13.28	peak
2	4815.000	46.57	0.50	47.07	54.00	-6.93	AVG
3	7230.000	45.61	6.93	52.54	74.00	-21.46	peak
4	9300.000	36.90	11.52	48.42	74.00	-25.58	peak
5	12720.000	28.67	19.29	47.96	74.00	-26.04	peak
6	14025.000	26.67	23.74	50.41	74.00	-23.59	peak
7	17955.000	20.97	29.18	50.15	74.00	-23.85	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



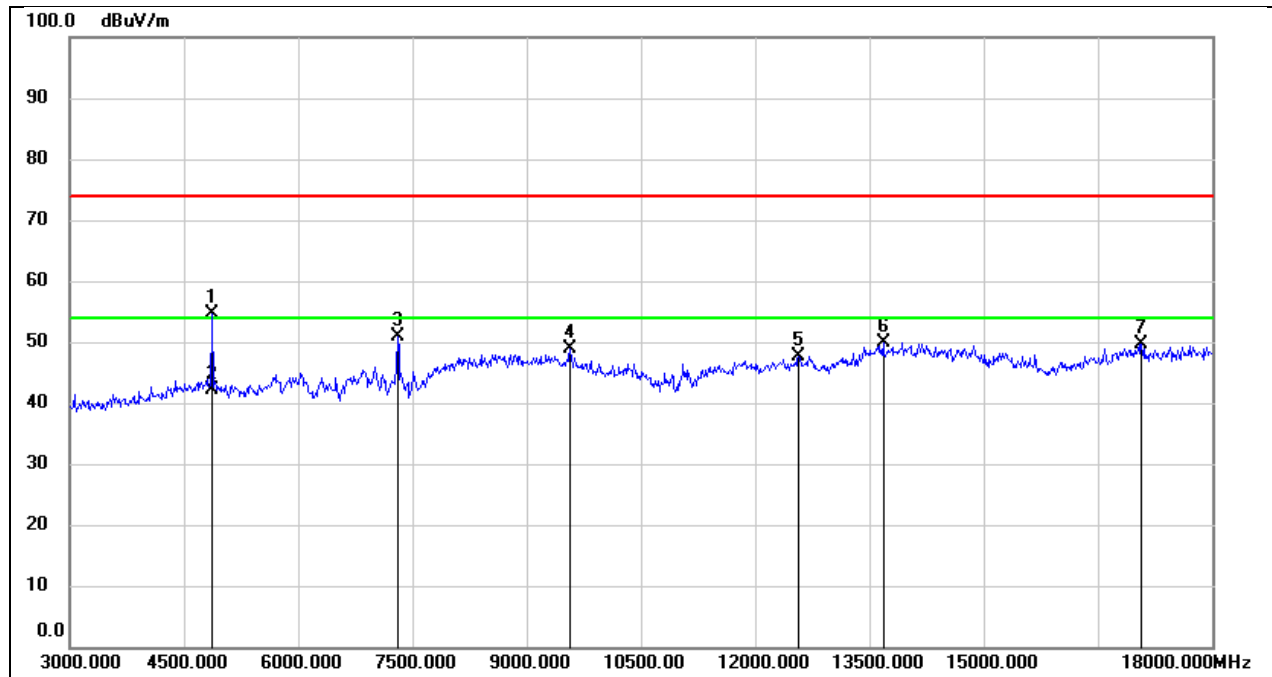
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	57.19	1.59	58.78	74.00	-15.22	peak
2	4815.000	43.17	1.59	44.76	54.00	-9.24	AVG
3	7230.000	39.82	7.65	47.47	74.00	-26.53	peak
4	8985.000	37.97	10.53	48.50	74.00	-25.50	peak
5	12645.000	30.84	18.11	48.95	74.00	-25.05	peak
6	14190.000	28.39	22.27	50.66	74.00	-23.34	peak
7	17985.000	23.06	27.35	50.41	74.00	-23.59	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



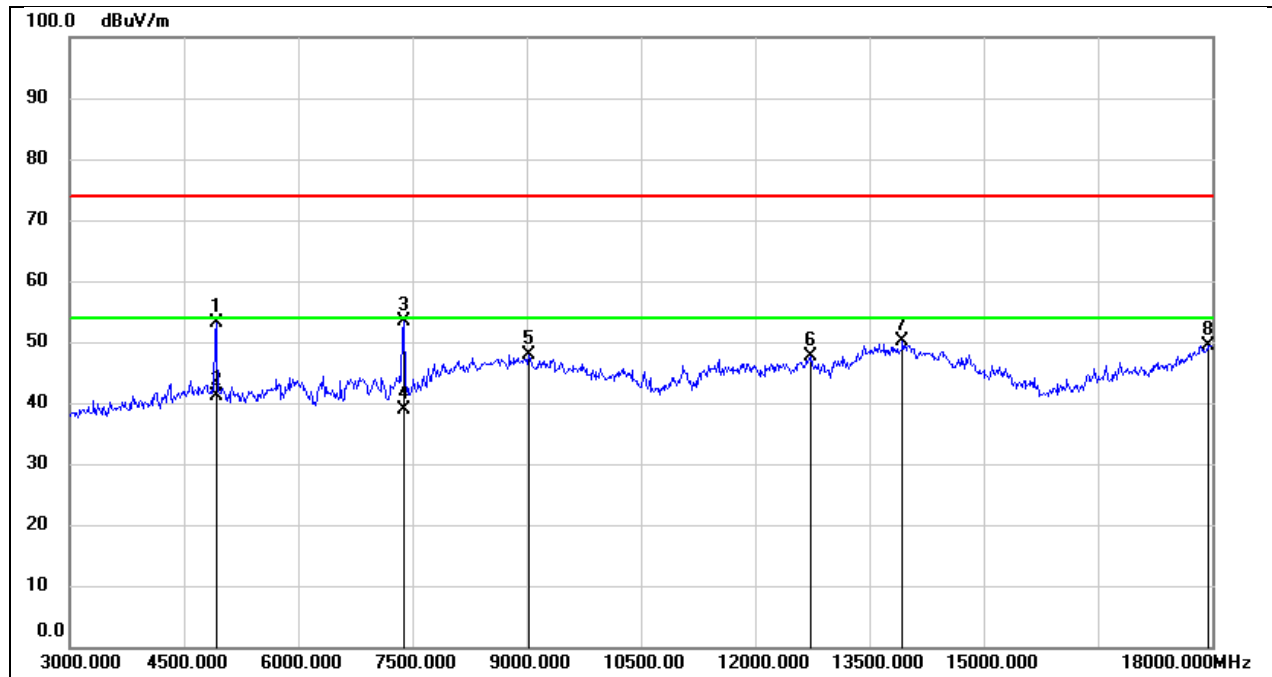
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	56.25	0.62	56.87	74.00	-17.13	peak
2	4860.000	42.87	0.62	43.49	54.00	-10.51	AVG
3	7305.000	47.37	7.03	54.40	74.00	-19.60	peak
4	7305.000	33.66	7.03	40.69	54.00	-13.31	AVG
5	9330.000	35.91	11.65	47.56	74.00	-26.44	peak
6	12690.000	28.73	19.21	47.94	74.00	-26.06	peak
7	13740.000	27.52	22.84	50.36	74.00	-23.64	peak
8	18000.000	20.20	29.64	49.84	74.00	-24.16	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



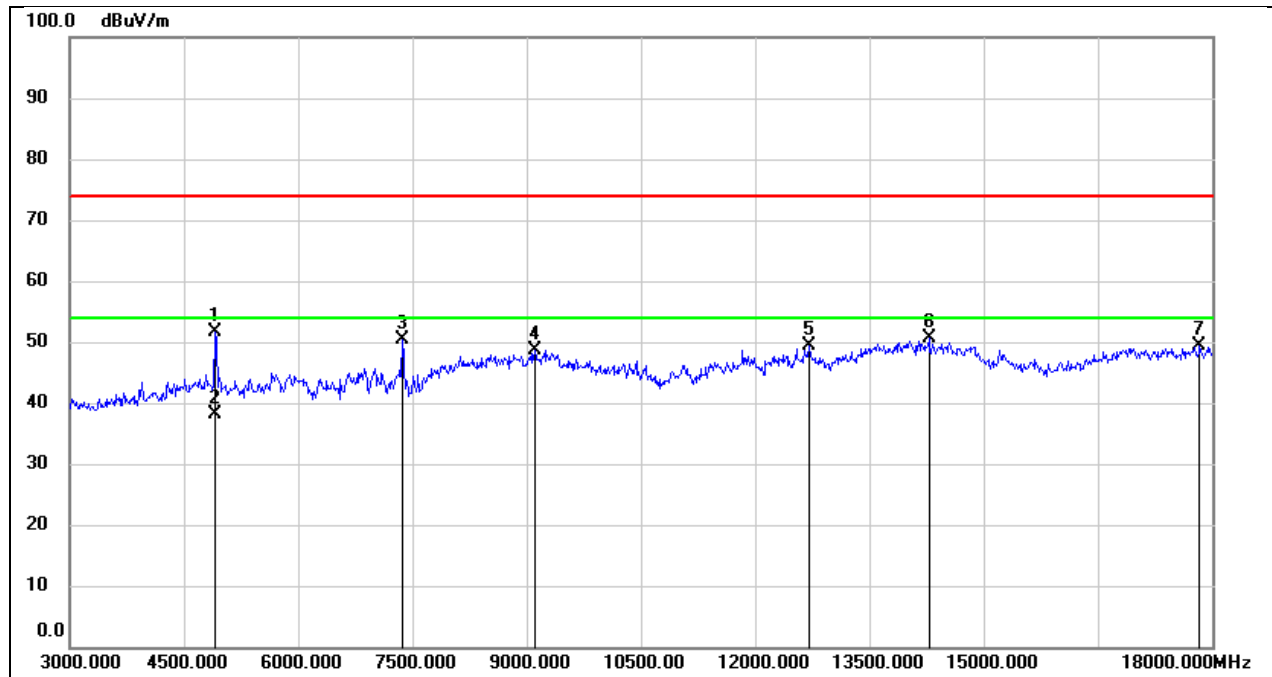
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	52.74	1.78	54.52	74.00	-19.48	peak
2	4875.000	40.28	1.78	42.06	54.00	-11.94	AVG
3	7305.000	43.25	7.68	50.93	74.00	-23.07	peak
4	9570.000	36.16	12.60	48.76	74.00	-25.24	peak
5	12570.000	29.64	18.00	47.64	74.00	-26.36	peak
6	13680.000	28.73	21.08	49.81	74.00	-24.19	peak
7	17070.000	24.51	25.23	49.74	74.00	-24.26	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



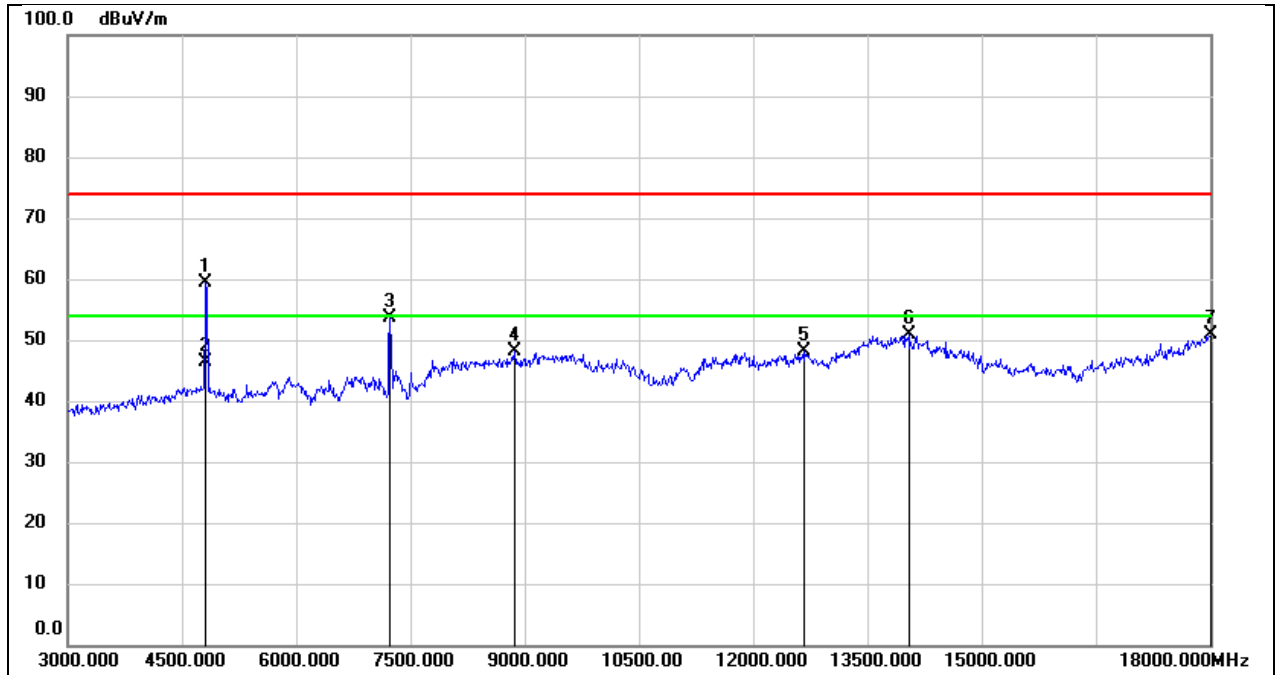
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	52.37	0.76	53.13	74.00	-20.87	peak
2	4920.000	40.33	0.76	41.09	54.00	-12.91	AVG
3	7395.000	46.15	7.15	53.30	74.00	-20.70	peak
4	7395.000	31.61	7.15	38.76	54.00	-15.24	AVG
5	9030.000	37.63	10.31	47.94	74.00	-26.06	peak
6	12735.000	28.33	19.33	47.66	74.00	-26.34	peak
7	13935.000	26.62	23.52	50.14	74.00	-23.86	peak
8	17940.000	20.46	29.03	49.49	74.00	-24.51	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.3V



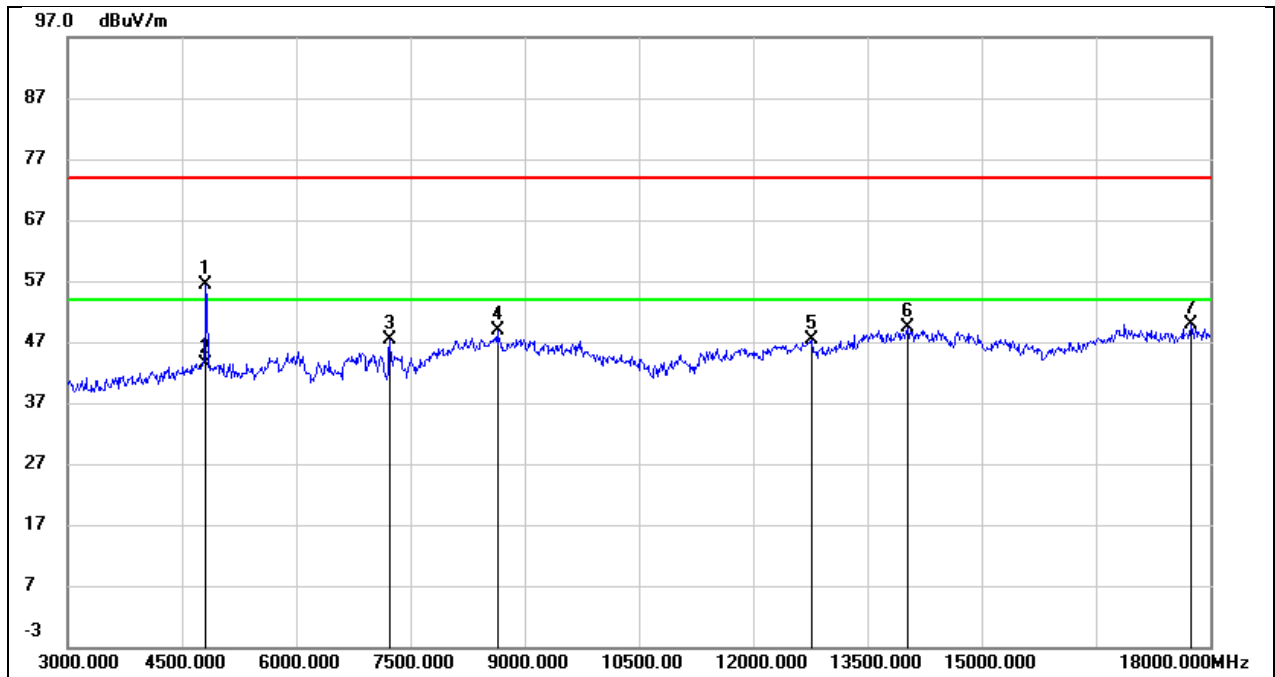
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	49.85	1.86	51.71	74.00	-22.29	peak
2	4905.000	36.29	1.86	38.15	54.00	-15.85	AVG
3	7365.000	42.55	7.72	50.27	74.00	-23.73	peak
4	9105.000	37.60	10.97	48.57	74.00	-25.43	peak
5	12705.000	31.06	18.22	49.28	74.00	-24.72	peak
6	14280.000	28.70	22.05	50.75	74.00	-23.25	peak
7	17835.000	22.93	26.48	49.41	74.00	-24.59	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



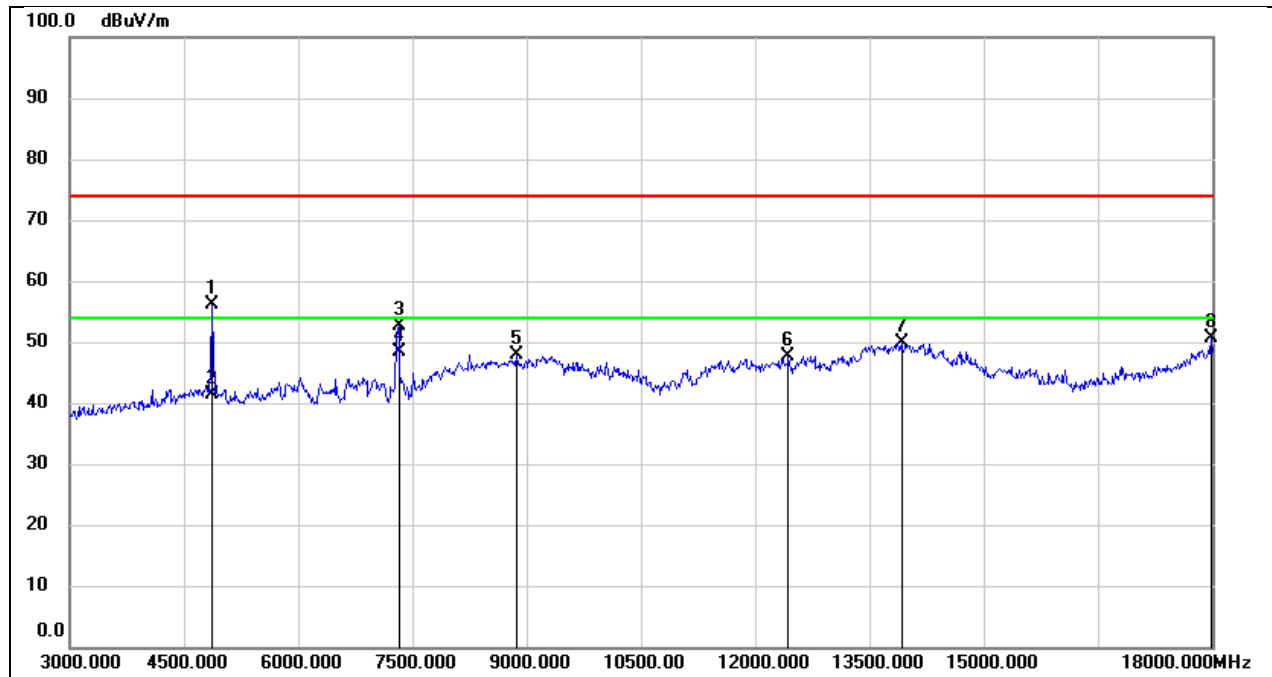
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	58.78	0.50	59.28	74.00	-14.72	peak
2	4815.000	45.83	0.50	46.33	54.00	-7.67	AVG
3	7230.000	46.65	6.93	53.58	74.00	-20.42	peak
4	8865.000	38.31	9.76	48.07	74.00	-25.93	peak
5	12675.000	28.97	19.18	48.15	74.00	-25.85	peak
6	14040.000	27.12	23.70	50.82	74.00	-23.18	peak
7	18000.000	21.31	29.64	50.95	74.00	-23.05	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



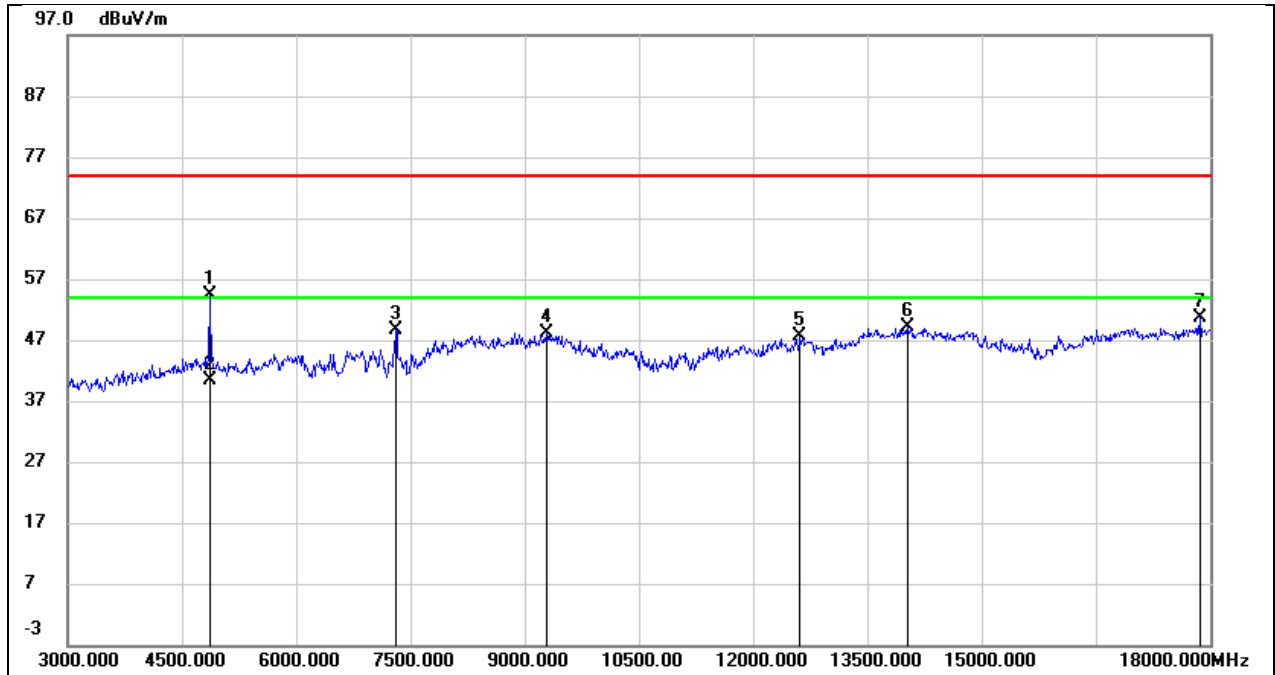
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	54.79	1.59	56.38	74.00	-17.62	peak
2	4815.000	41.68	1.59	43.27	54.00	-10.73	AVG
3	7230.000	39.76	7.65	47.41	74.00	-26.59	peak
4	8640.000	38.99	9.90	48.89	74.00	-25.11	peak
5	12765.000	28.98	18.34	47.32	74.00	-26.68	peak
6	14025.000	27.13	22.20	49.33	74.00	-24.67	peak
7	17745.000	23.68	26.12	49.80	74.00	-24.20	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



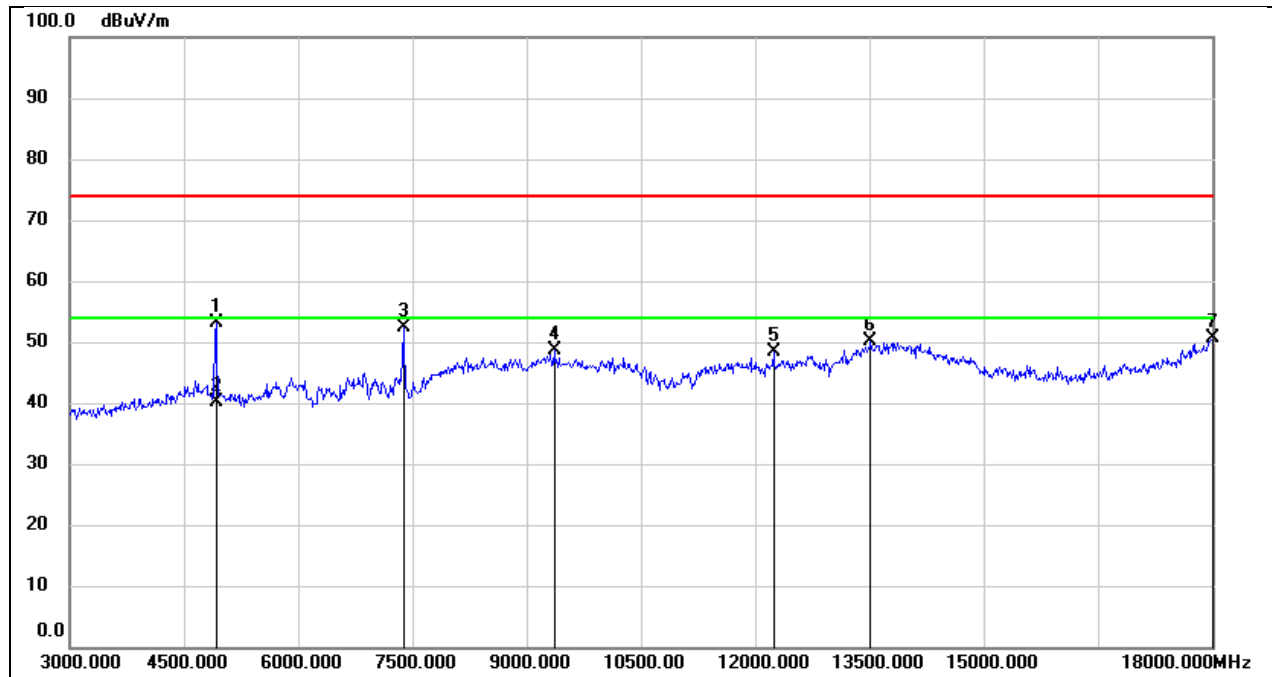
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	55.39	0.62	56.01	74.00	-17.99	peak
2	4860.000	40.85	0.62	41.47	54.00	-12.53	AVG
3	7320.000	45.65	7.05	52.70	74.00	-21.30	peak
4	7320.000	41.31	7.05	48.36	54.00	-5.64	AVG
5	8865.000	38.00	9.76	47.76	74.00	-26.24	peak
6	12435.000	28.76	18.94	47.70	74.00	-26.30	peak
7	13920.000	26.39	23.45	49.84	74.00	-24.16	peak
8	17985.000	21.13	29.49	50.62	74.00	-23.38	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



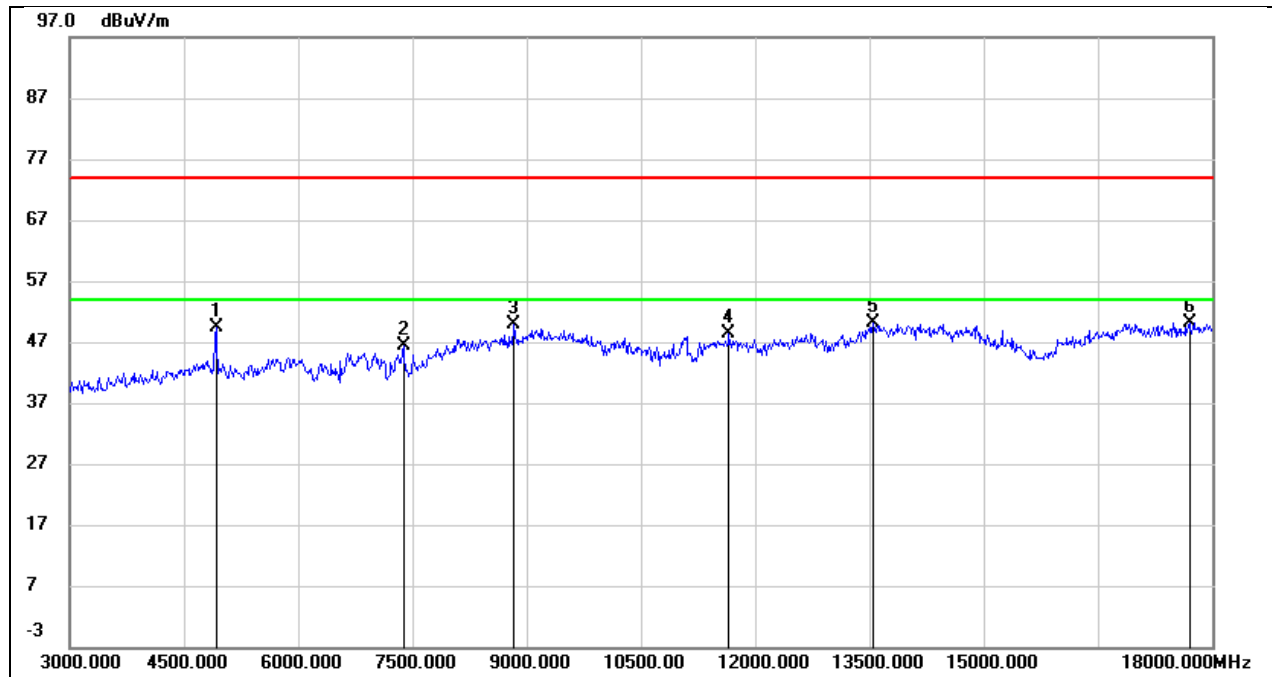
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	52.63	1.73	54.36	74.00	-19.64	peak
2	4860.000	38.60	1.73	40.33	54.00	-13.67	AVG
3	7305.000	40.99	7.68	48.67	74.00	-25.33	peak
4	9285.000	36.45	11.62	48.07	74.00	-25.93	peak
5	12615.000	29.48	18.04	47.52	74.00	-26.48	peak
6	14025.000	26.98	22.20	49.18	74.00	-24.82	peak
7	17865.000	23.97	26.66	50.63	74.00	-23.37	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



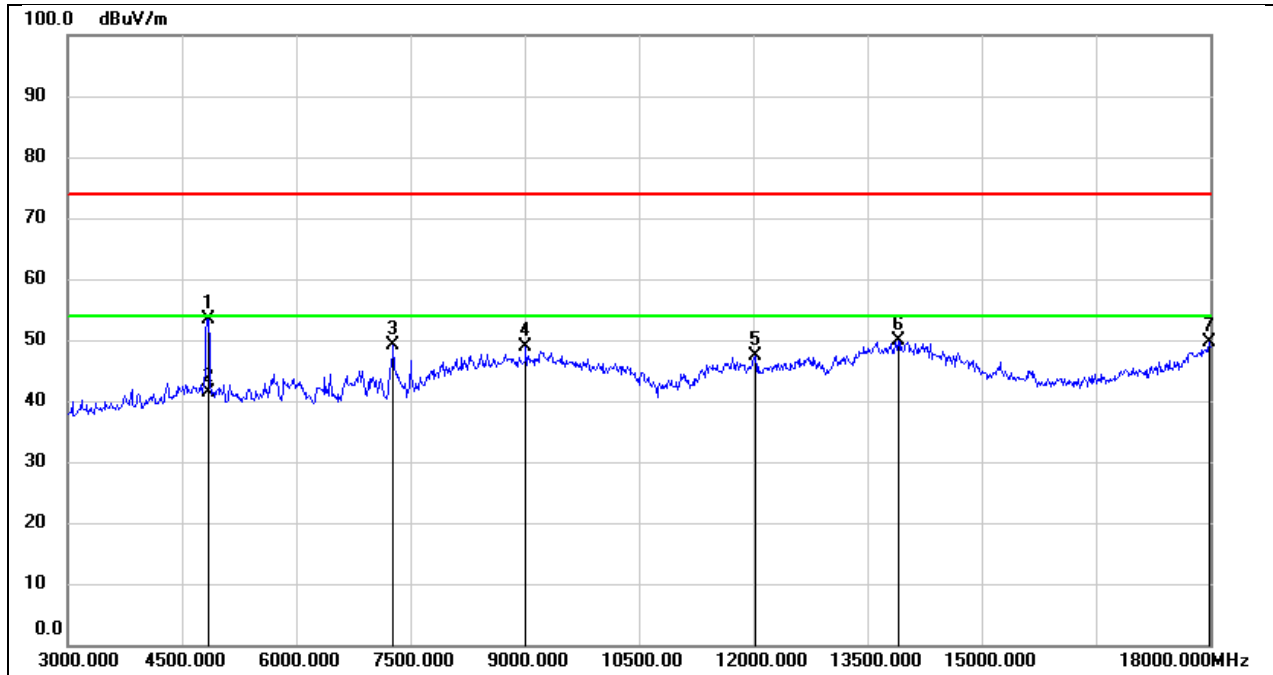
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	52.28	0.76	53.04	74.00	-20.96	peak
2	4920.000	39.25	0.76	40.01	54.00	-13.99	AVG
3	7380.000	45.35	7.13	52.48	74.00	-21.52	peak
4	9360.000	36.85	11.78	48.63	74.00	-25.37	peak
5	12240.000	29.52	18.78	48.30	74.00	-25.70	peak
6	13515.000	27.55	22.47	50.02	74.00	-23.98	peak
7	18000.000	21.03	29.64	50.67	74.00	-23.33	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.3V



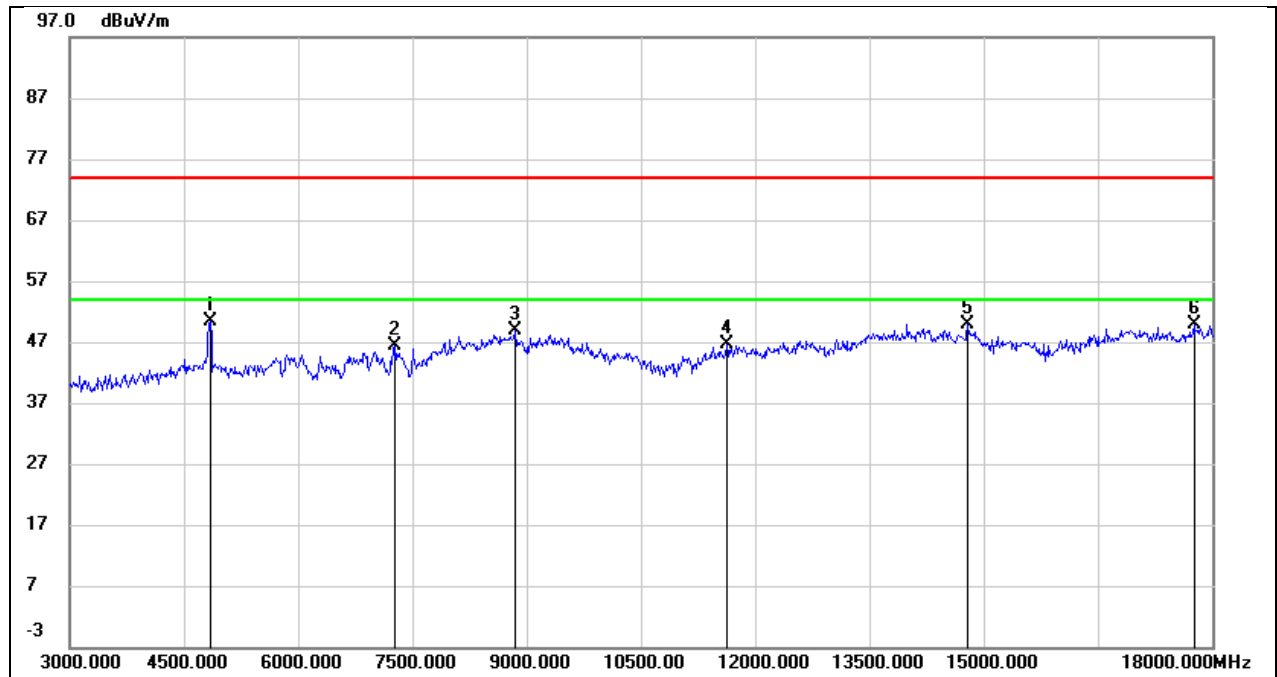
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	47.55	1.91	49.46	74.00	-24.54	peak
2	7380.000	38.72	7.73	46.45	74.00	-27.55	peak
3	8835.000	39.63	10.14	49.77	74.00	-24.23	peak
4	11655.000	31.54	16.88	48.42	74.00	-25.58	peak
5	13545.000	29.29	20.83	50.12	74.00	-23.88	peak
6	17700.000	24.13	25.99	50.12	74.00	-23.88	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



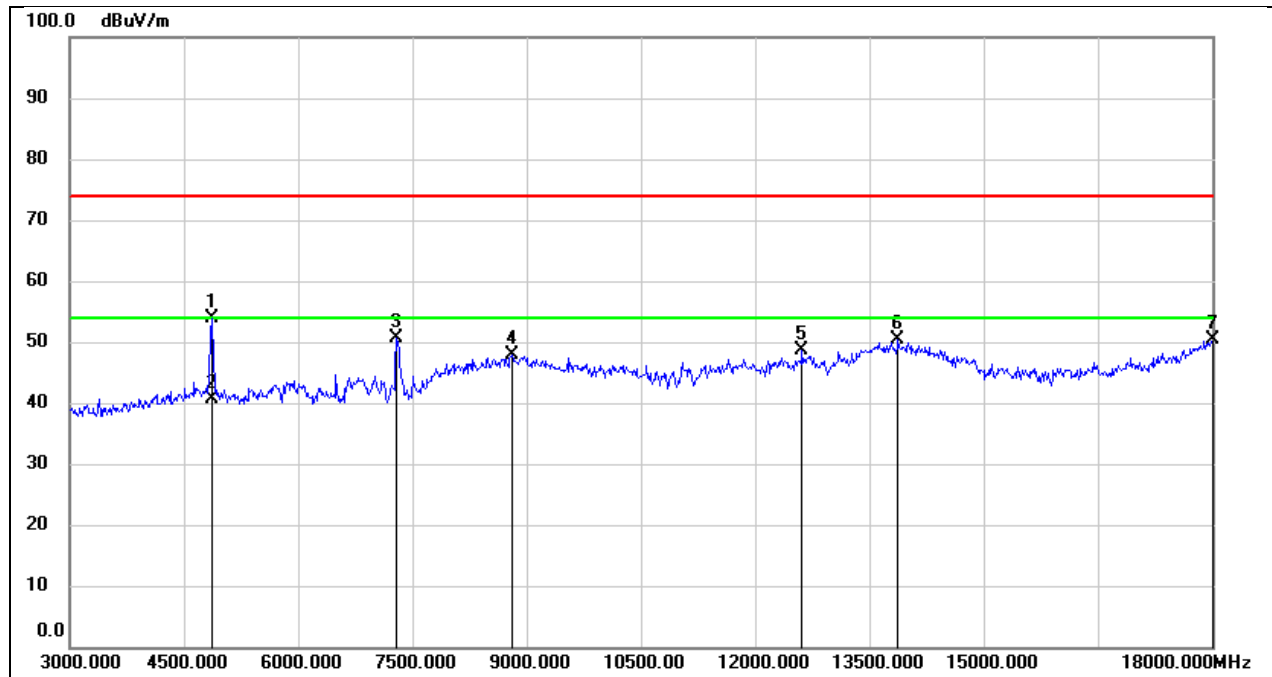
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	52.90	0.58	53.48	74.00	-20.52	peak
2	4845.000	40.87	0.58	41.45	54.00	-12.55	AVG
3	7275.000	42.08	6.99	49.07	74.00	-24.93	peak
4	9015.000	38.62	10.24	48.86	74.00	-25.14	peak
5	12030.000	28.59	18.72	47.31	74.00	-26.69	peak
6	13905.000	26.55	23.38	49.93	74.00	-24.07	peak
7	17985.000	20.26	29.49	49.75	74.00	-24.25	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 3.3V



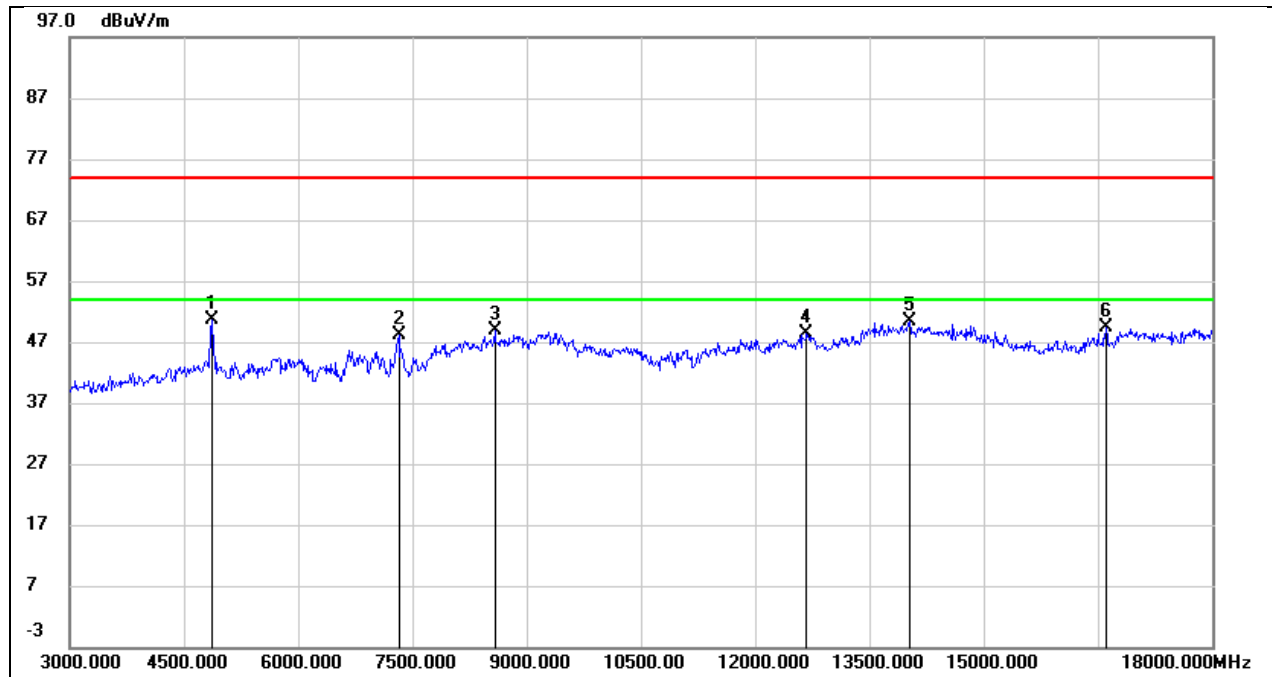
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	48.77	1.69	50.46	74.00	-23.54	peak
2	7275.000	38.68	7.67	46.35	74.00	-27.65	peak
3	8850.000	38.69	10.18	48.87	74.00	-25.13	peak
4	11625.000	29.71	16.81	46.52	74.00	-27.48	peak
5	14790.000	28.99	20.92	49.91	74.00	-24.09	peak
6	17760.000	23.83	26.16	49.99	74.00	-24.01	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



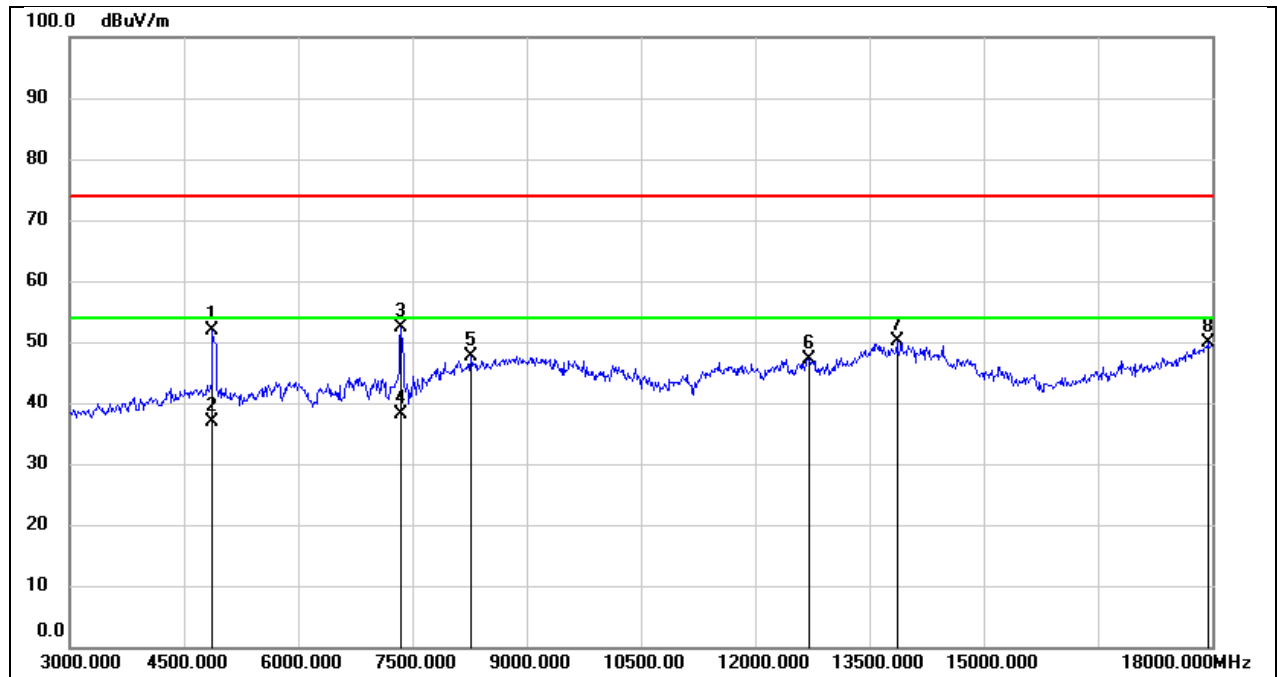
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	53.36	0.62	53.98	74.00	-20.02	peak
2	4860.000	40.08	0.62	40.70	54.00	-13.30	AVG
3	7290.000	43.55	7.02	50.57	74.00	-23.43	peak
4	8805.000	38.26	9.58	47.84	74.00	-26.16	peak
5	12615.000	29.57	19.01	48.58	74.00	-25.42	peak
6	13875.000	27.19	23.26	50.45	74.00	-23.55	peak
7	18000.000	20.79	29.64	50.43	74.00	-23.57	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



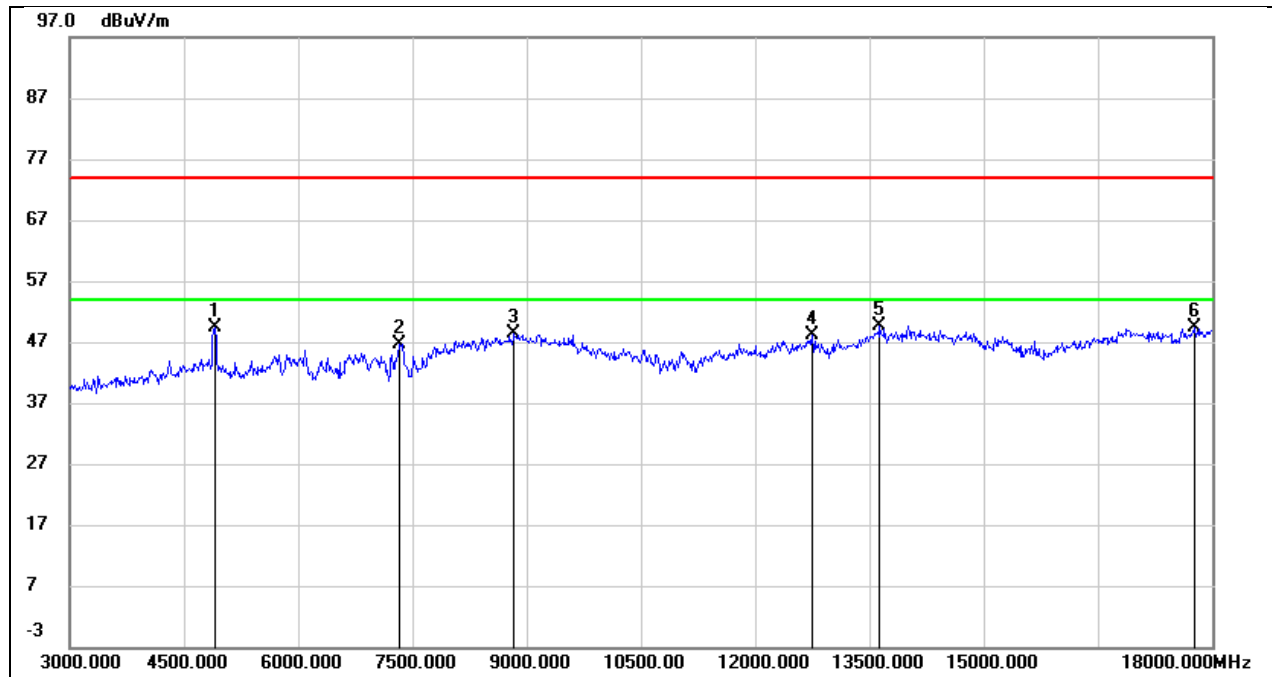
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	48.94	1.73	50.67	74.00	-23.33	peak
2	7320.000	40.56	7.69	48.25	74.00	-25.75	peak
3	8580.000	38.99	9.82	48.81	74.00	-25.19	peak
4	12675.000	30.24	18.17	48.41	74.00	-25.59	peak
5	14025.000	28.21	22.20	50.41	74.00	-23.59	peak
6	16605.000	25.08	24.37	49.45	74.00	-24.55	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



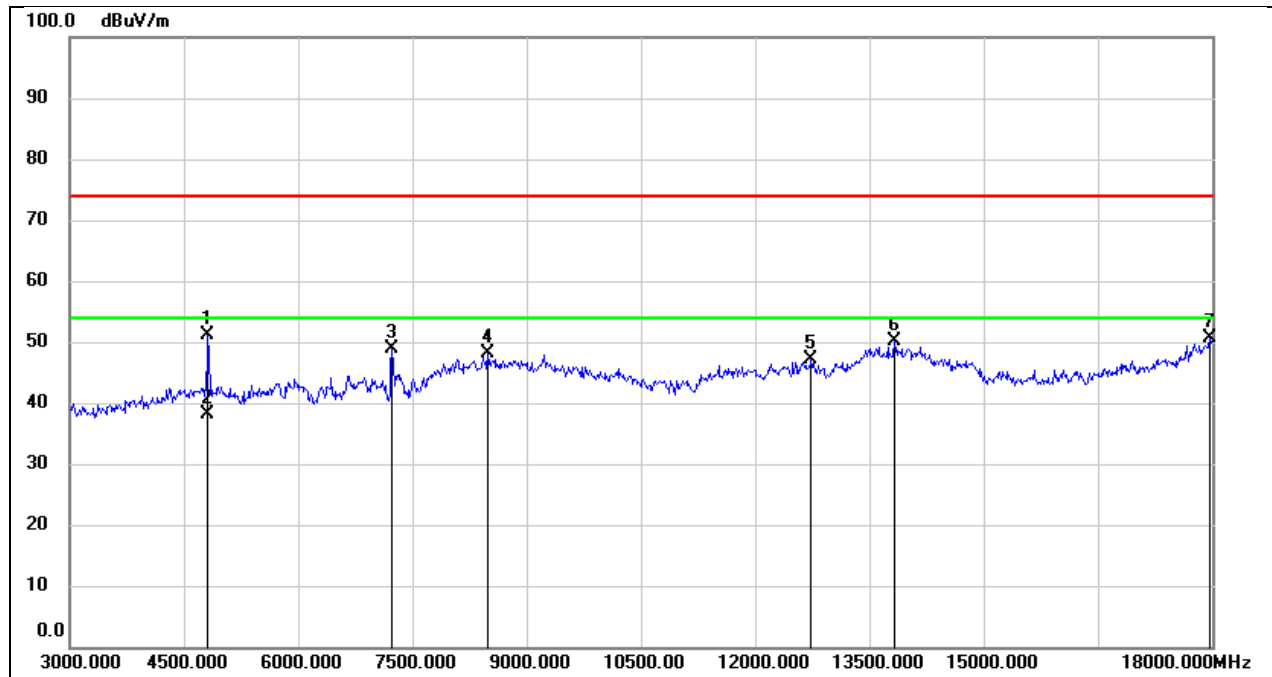
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	51.23	0.65	51.88	74.00	-22.12	peak
2	4875.000	36.27	0.65	36.92	54.00	-17.08	AVG
3	7350.000	45.37	7.09	52.46	74.00	-21.54	peak
4	7350.000	31.15	7.09	38.24	54.00	-15.76	AVG
5	8265.000	39.08	8.65	47.73	74.00	-26.27	peak
6	12705.000	27.98	19.25	47.23	74.00	-26.77	peak
7	13860.000	26.87	23.19	50.06	74.00	-23.94	peak
8	17940.000	20.90	29.03	49.93	74.00	-24.07	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	DC 3.3V



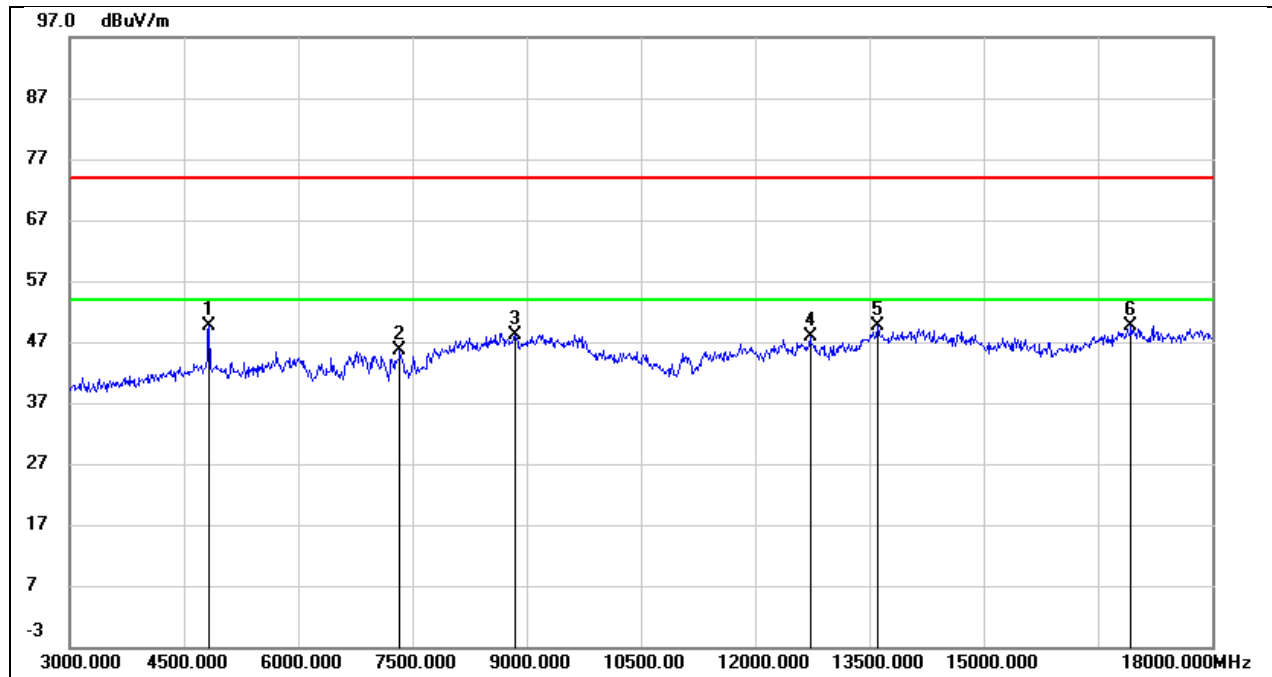
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	47.57	1.86	49.43	74.00	-24.57	peak
2	7320.000	38.97	7.69	46.66	74.00	-27.34	peak
3	8835.000	38.26	10.14	48.40	74.00	-25.60	peak
4	12750.000	29.90	18.32	48.22	74.00	-25.78	peak
5	13635.000	28.62	21.01	49.63	74.00	-24.37	peak
6	17775.000	23.19	26.21	49.40	74.00	-24.60	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



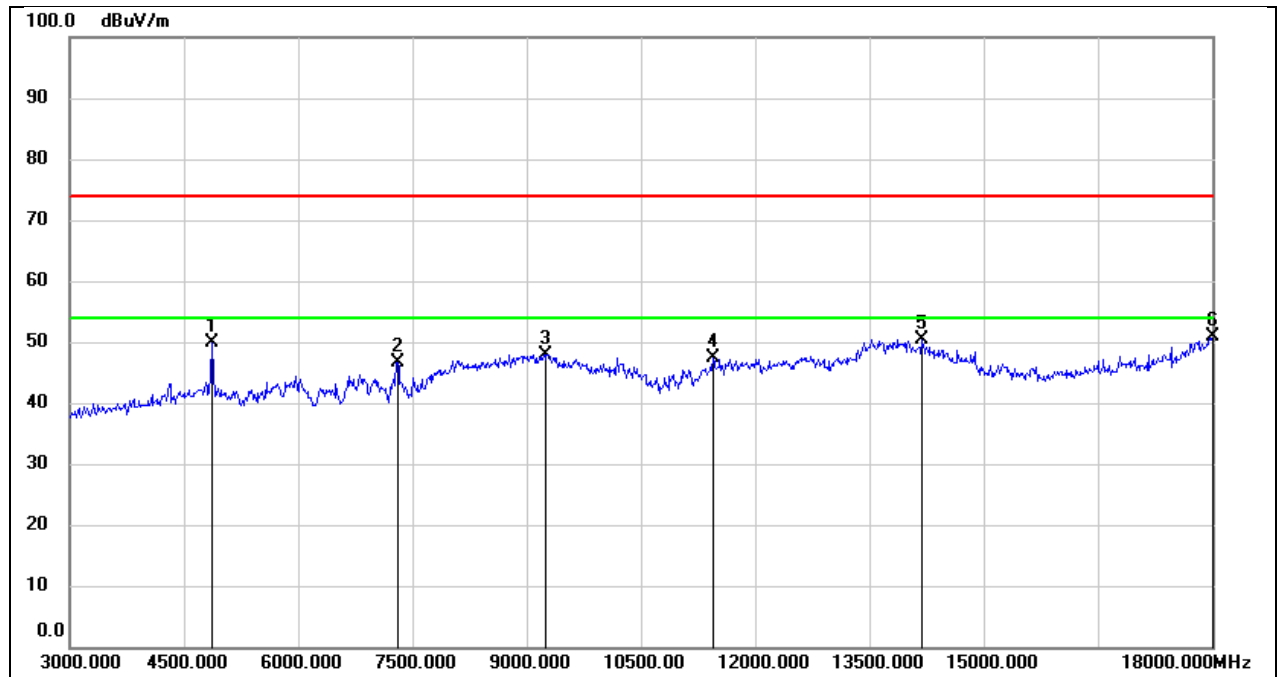
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	50.73	0.50	51.23	74.00	-22.77	peak
2	4815.000	37.69	0.50	38.19	54.00	-15.81	AVG
3	7230.000	41.86	6.93	48.79	74.00	-25.21	peak
4	8490.000	39.17	9.00	48.17	74.00	-25.83	peak
5	12735.000	27.76	19.33	47.09	74.00	-26.91	peak
6	13830.000	27.02	23.06	50.08	74.00	-23.92	peak
7	17970.000	21.39	29.33	50.72	74.00	-23.28	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



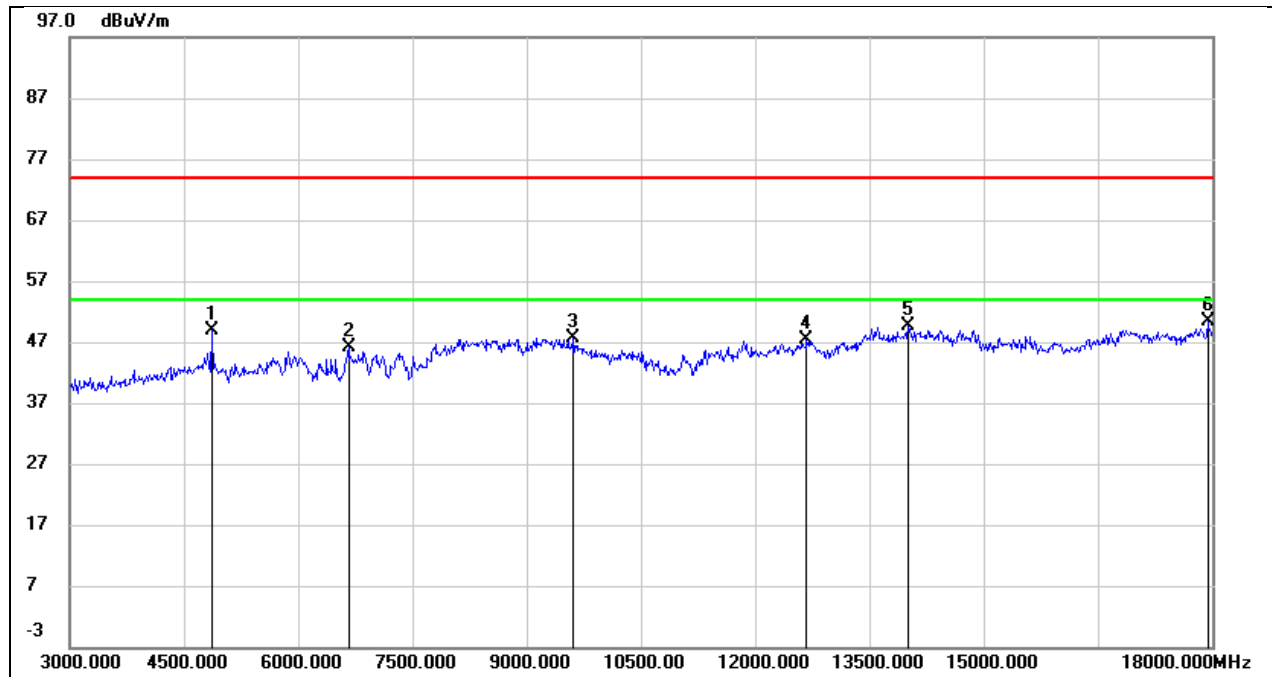
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	47.99	1.64	49.63	74.00	-24.37	peak
2	7335.000	38.01	7.70	45.71	74.00	-28.29	peak
3	8850.000	38.07	10.18	48.25	74.00	-25.75	peak
4	12720.000	29.59	18.26	47.85	74.00	-26.15	peak
5	13605.000	28.75	20.95	49.70	74.00	-24.30	peak
6	16935.000	24.63	25.10	49.73	74.00	-24.27	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



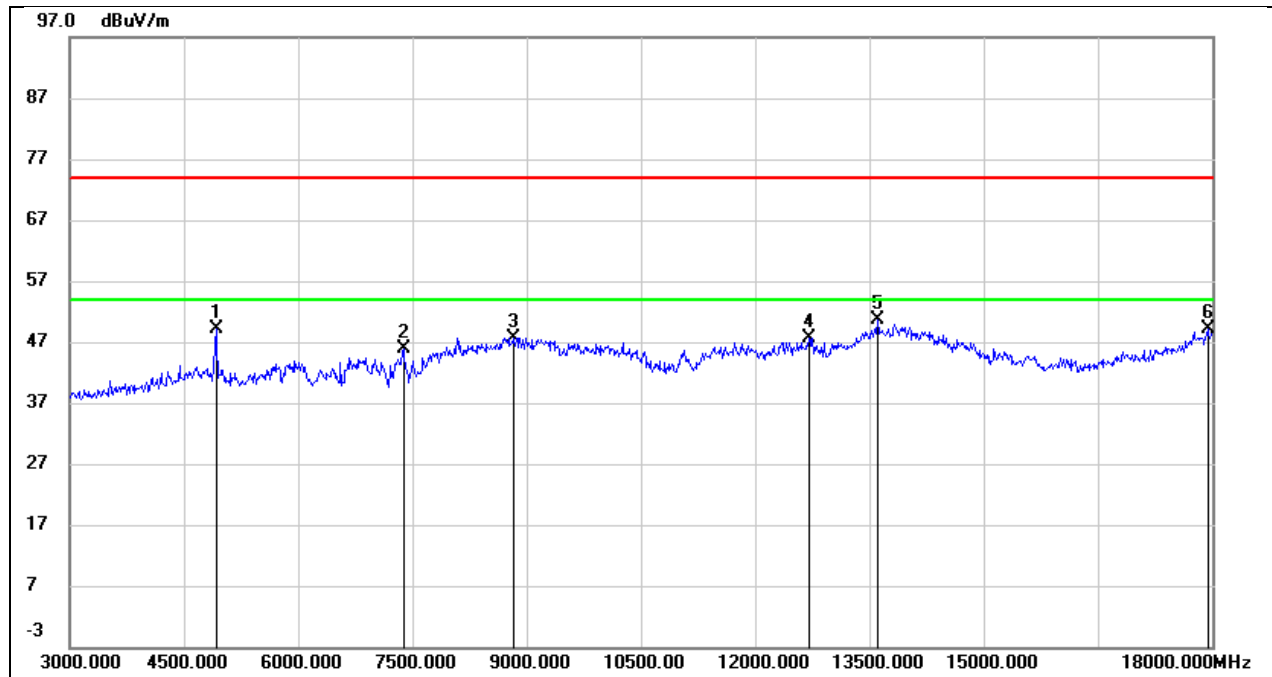
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	49.19	0.65	49.84	74.00	-24.16	peak
2	7305.000	39.67	7.03	46.70	74.00	-27.30	peak
3	9255.000	36.62	11.32	47.94	74.00	-26.06	peak
4	11445.000	29.54	17.78	47.32	74.00	-26.68	peak
5	14190.000	27.07	23.37	50.44	74.00	-23.56	peak
6	18000.000	21.14	29.64	50.78	74.00	-23.22	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



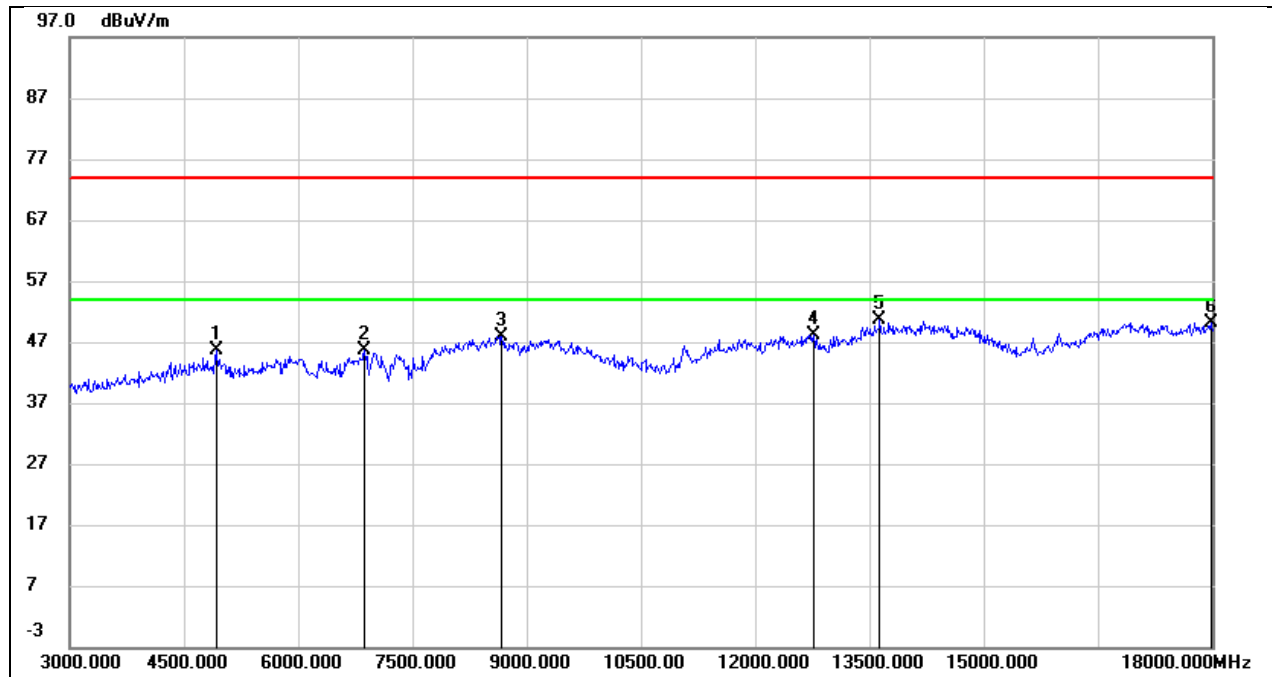
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	47.24	1.73	48.97	74.00	-25.03	peak
2	6660.000	40.09	6.14	46.23	74.00	-27.77	peak
3	9615.000	35.00	12.70	47.70	74.00	-26.30	peak
4	12675.000	29.19	18.17	47.36	74.00	-26.64	peak
5	14010.000	27.36	22.20	49.56	74.00	-24.44	peak
6	17940.000	23.35	27.10	50.45	74.00	-23.55	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



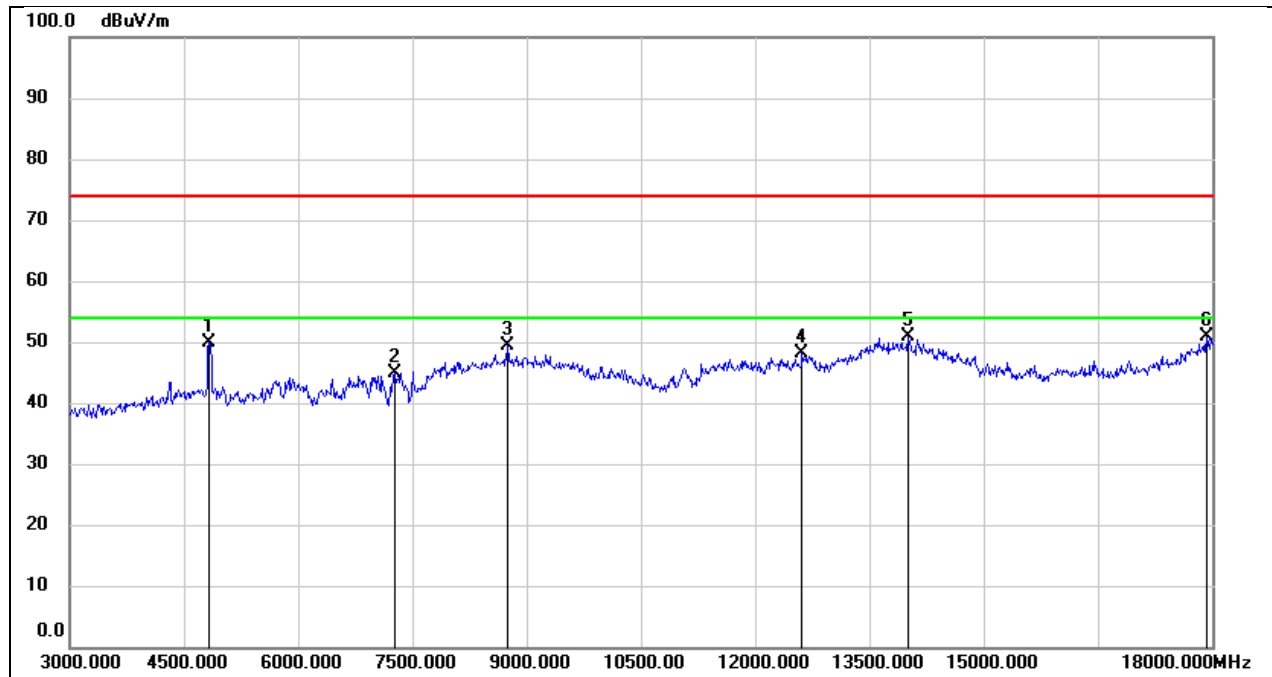
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	48.29	0.76	49.05	74.00	-24.95	peak
2	7380.000	38.64	7.13	45.77	74.00	-28.23	peak
3	8820.000	38.13	9.62	47.75	74.00	-26.25	peak
4	12705.000	28.46	19.25	47.71	74.00	-26.29	peak
5	13605.000	27.89	22.63	50.52	74.00	-23.48	peak
6	17940.000	19.99	29.03	49.02	74.00	-24.98	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 3.3V



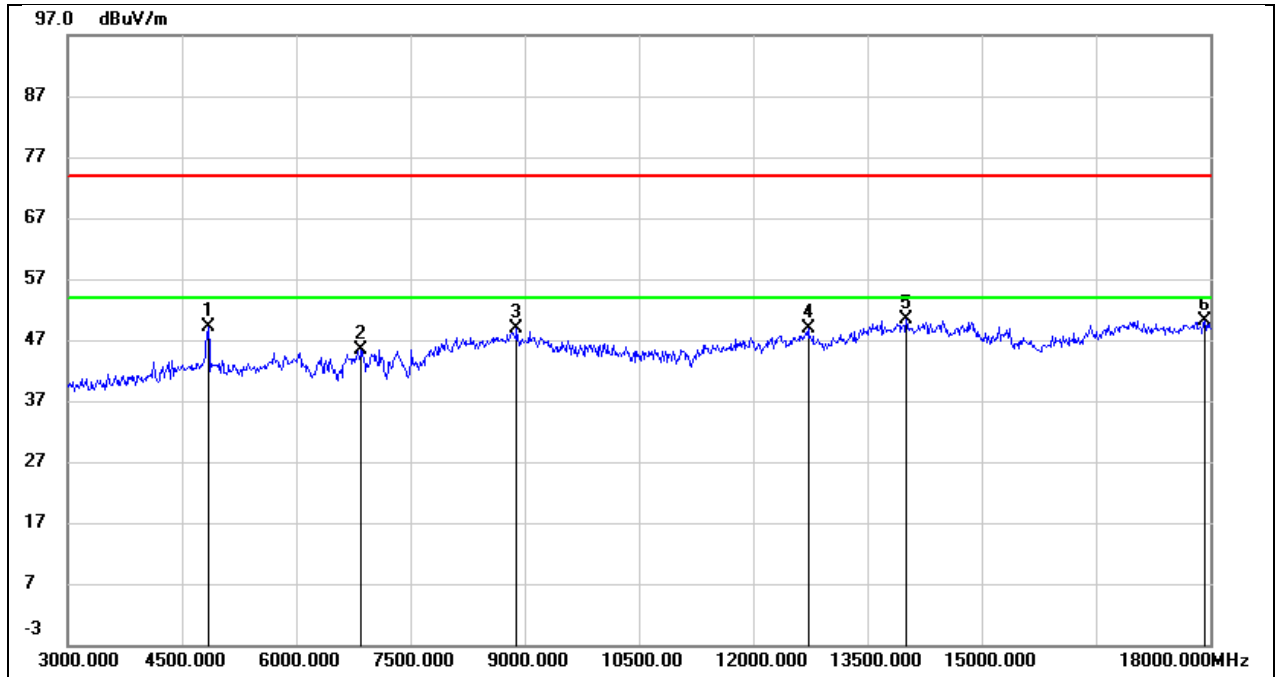
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	44.95	0.76	45.71	74.00	-28.29	peak
2	6870.000	39.58	6.04	45.62	74.00	-28.38	peak
3	8670.000	38.53	9.40	47.93	74.00	-26.07	peak
4	12765.000	28.63	19.40	48.03	74.00	-25.97	peak
5	13635.000	27.97	22.68	50.65	74.00	-23.35	peak
6	17985.000	20.74	29.49	50.23	74.00	-23.77	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



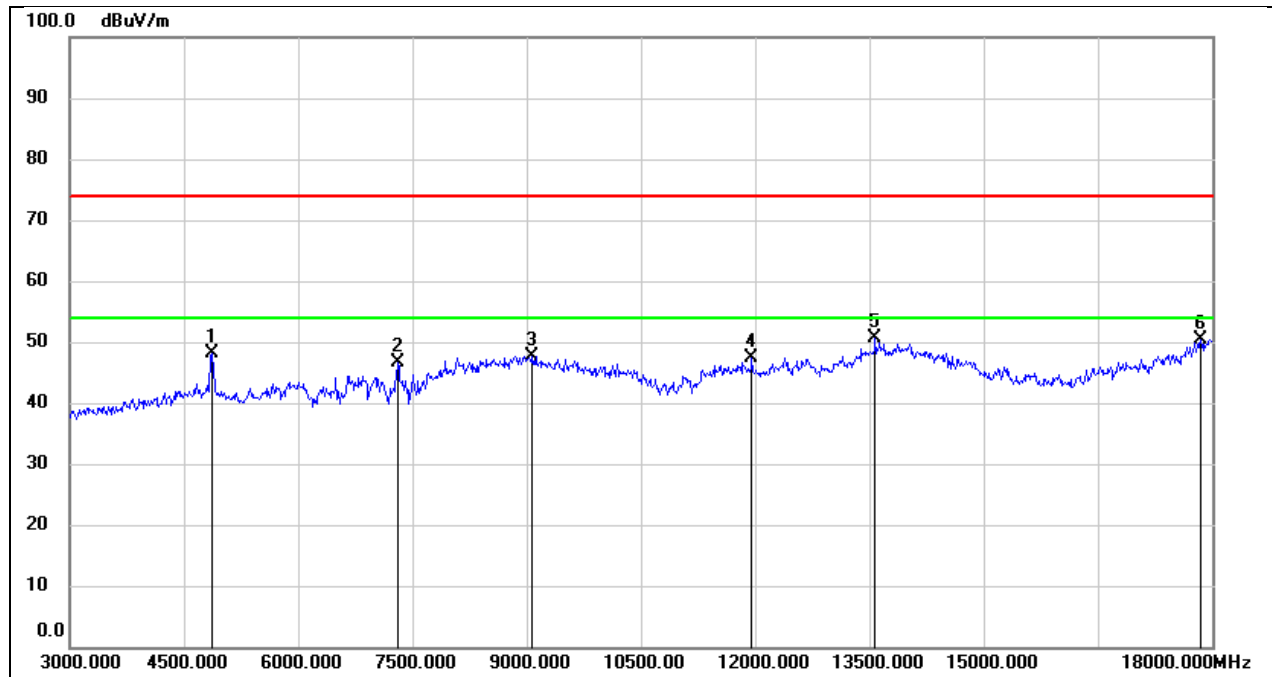
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4830.000	49.32	0.54	49.86	74.00	-24.14	peak
2	7260.000	37.99	6.97	44.96	74.00	-29.04	peak
3	8745.000	39.80	9.49	49.29	74.00	-24.71	peak
4	12615.000	29.10	19.01	48.11	74.00	-25.89	peak
5	14010.000	27.00	23.78	50.78	74.00	-23.22	peak
6	17925.000	21.91	28.87	50.78	74.00	-23.22	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 3.3V



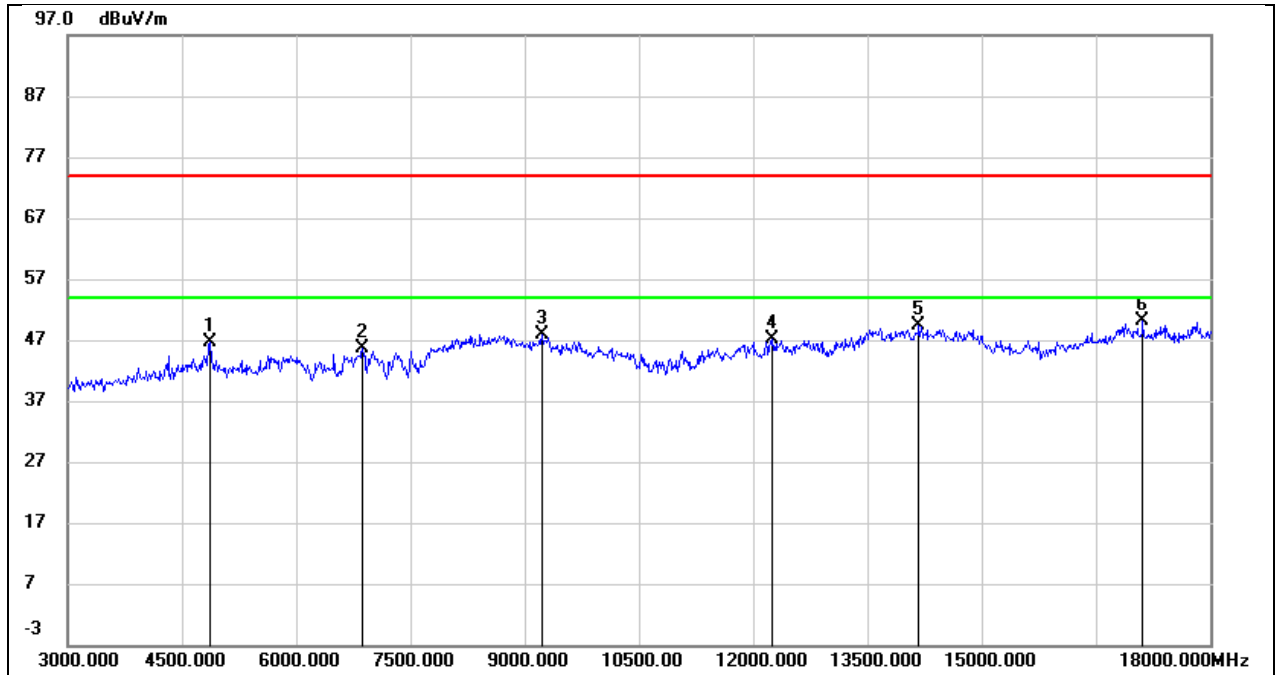
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	48.44	0.58	49.02	74.00	-24.98	peak
2	6855.000	39.37	6.01	45.38	74.00	-28.62	peak
3	8895.000	39.14	9.84	48.98	74.00	-25.02	peak
4	12720.000	29.50	19.29	48.79	74.00	-25.21	peak
5	14010.000	26.55	23.78	50.33	74.00	-23.67	peak
6	17925.000	21.25	28.87	50.12	74.00	-23.88	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



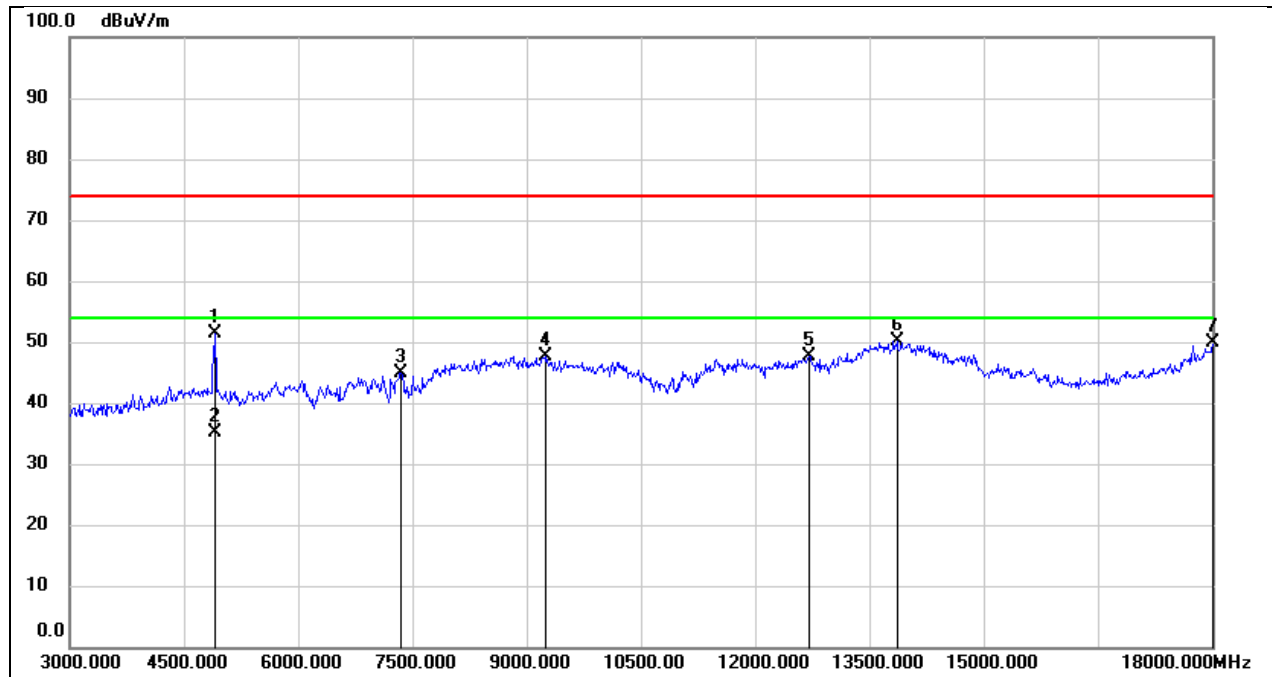
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	47.46	0.62	48.08	74.00	-25.92	peak
2	7305.000	39.55	7.03	46.58	74.00	-27.42	peak
3	9075.000	37.14	10.52	47.66	74.00	-26.34	peak
4	11955.000	28.59	18.67	47.26	74.00	-26.74	peak
5	13575.000	27.98	22.58	50.56	74.00	-23.44	peak
6	17850.000	22.34	28.11	50.45	74.00	-23.55	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



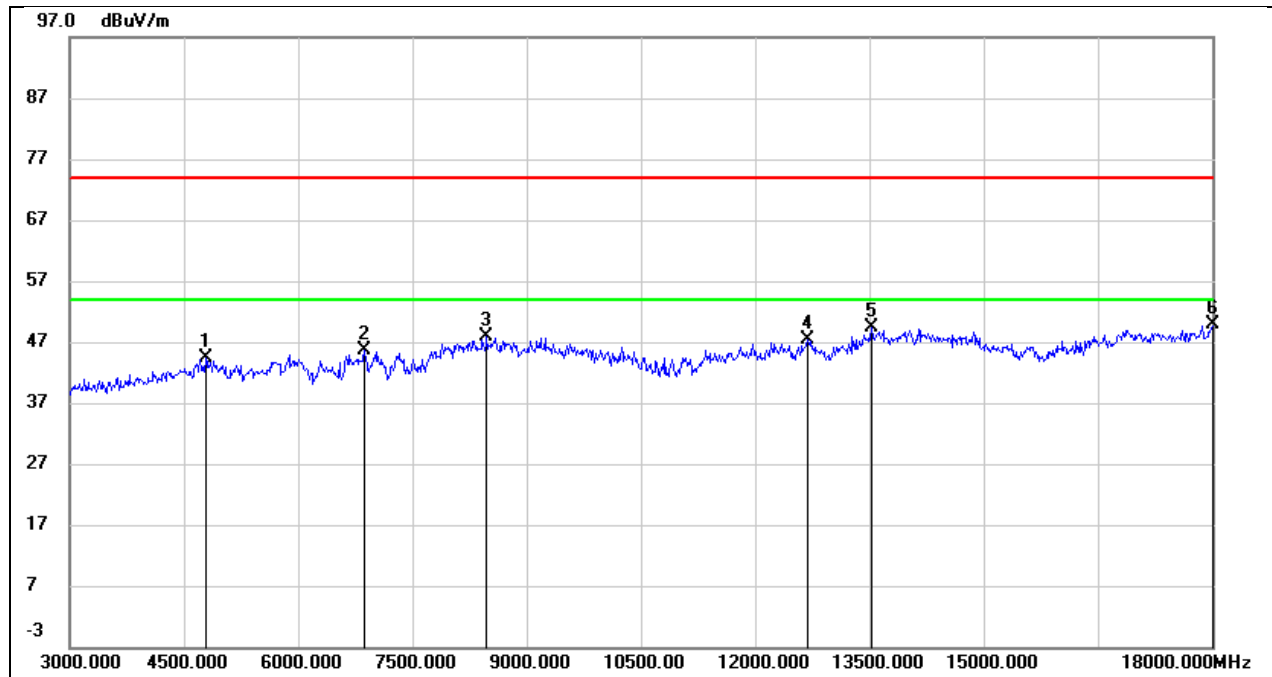
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	45.95	0.62	46.57	74.00	-27.43	peak
2	6870.000	39.61	6.04	45.65	74.00	-28.35	peak
3	9225.000	36.69	11.19	47.88	74.00	-26.12	peak
4	12255.000	28.22	18.80	47.02	74.00	-26.98	peak
5	14175.000	26.01	23.41	49.42	74.00	-24.58	peak
6	17115.000	26.29	23.95	50.24	74.00	-23.76	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4905.000	50.65	0.72	51.37	74.00	-22.63	peak
2	4905.000	34.50	0.72	35.22	54.00	-18.78	AVG
3	7350.000	37.85	7.09	44.94	74.00	-29.06	peak
4	9240.000	36.26	11.25	47.51	74.00	-26.49	peak
5	12705.000	28.36	19.25	47.61	74.00	-26.39	peak
6	13860.000	26.88	23.19	50.07	74.00	-23.93	peak
7	18000.000	20.36	29.64	50.00	74.00	-24.00	peak

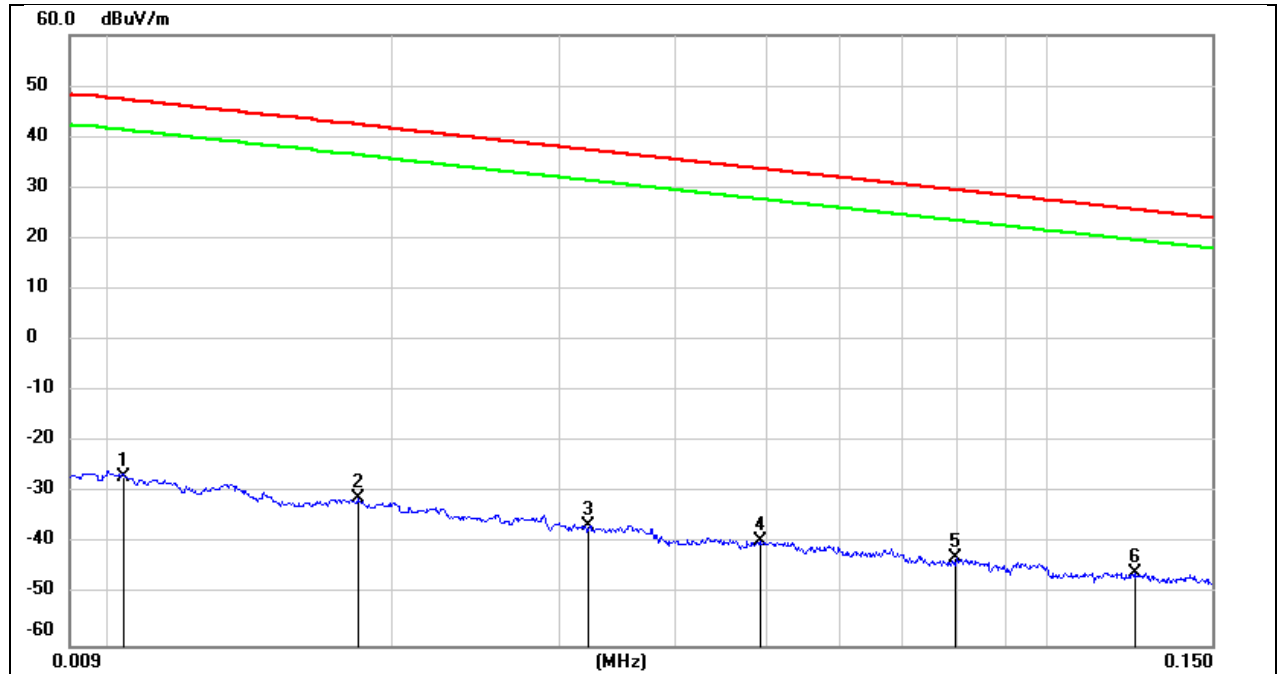
Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4785.000	44.03	0.43	44.46	74.00	-29.54	peak
2	6870.000	39.58	6.04	45.62	74.00	-28.38	peak
3	8475.000	39.01	8.98	47.99	74.00	-26.01	peak
4	12690.000	28.07	19.21	47.28	74.00	-26.72	peak
5	13530.000	26.79	22.49	49.28	74.00	-24.72	peak
6	18000.000	20.33	29.64	49.97	74.00	-24.03	peak

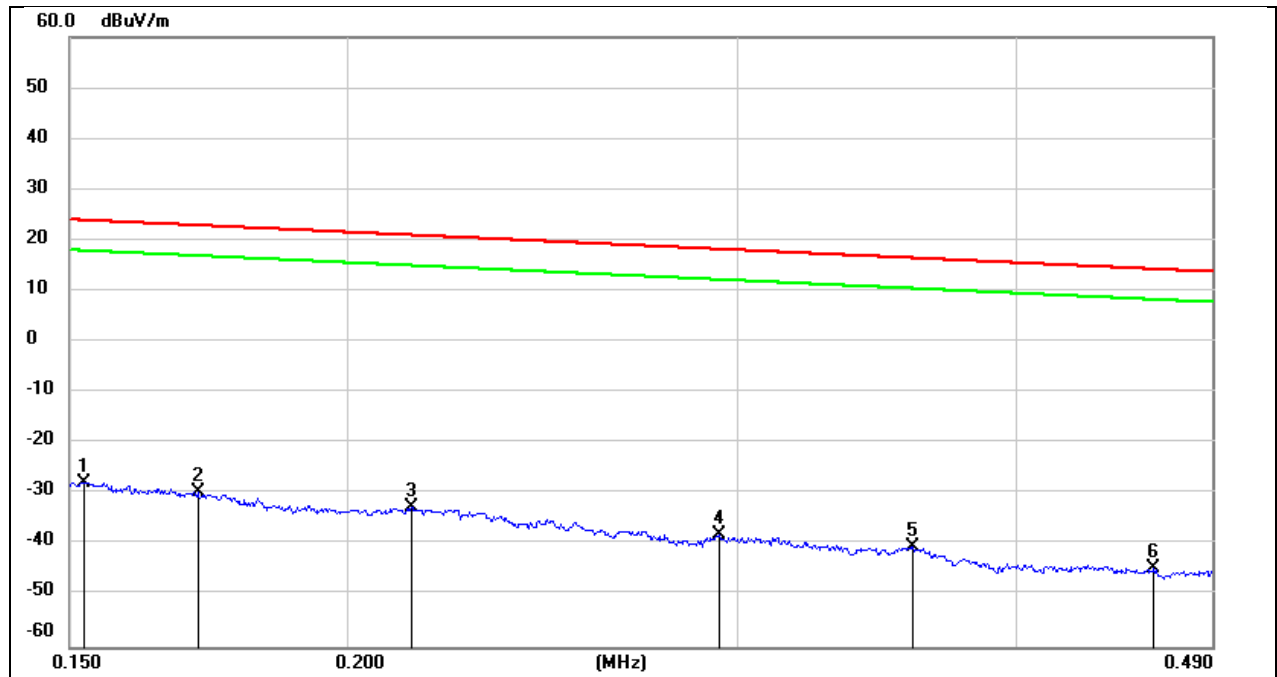
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



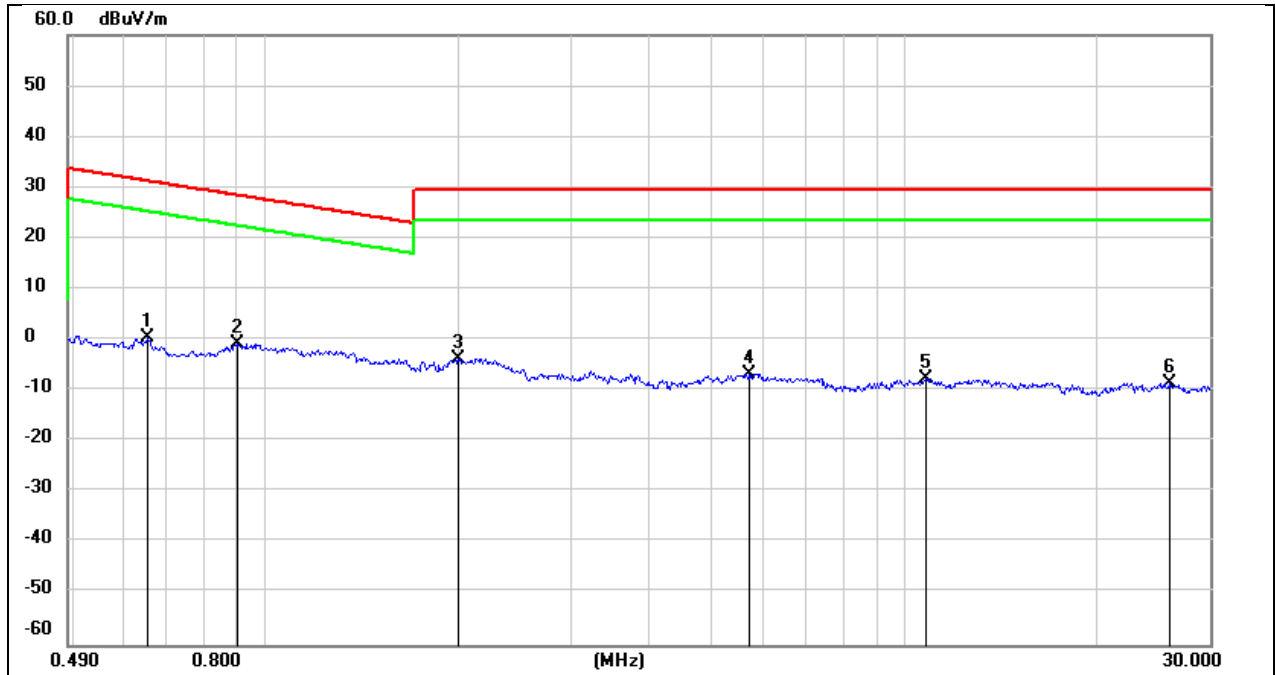
No.	Frequency	Reading	Correct	Result	Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0103	74.64	-101.40	-26.76	47.34	-78.26	-4.16	-74.10	peak
2	0.0183	70.20	-101.36	-31.16	42.35	-82.66	-9.15	-73.51	peak
3	0.0323	65.00	-101.40	-36.40	37.42	-87.9	-14.08	-73.82	peak
4	0.0492	62.05	-101.47	-39.42	33.76	-90.92	-17.74	-73.18	peak
5	0.0796	59.03	-101.63	-42.60	29.58	-94.1	-21.92	-72.18	peak
6	0.1242	56.01	-101.72	-45.71	25.72	-97.21	-25.78	-71.43	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1524	73.80	-101.63	-27.83	23.94	-79.33	-27.56	-51.77	peak
2	0.1713	72.17	-101.67	-29.50	22.93	-81	-28.57	-52.43	peak
3	0.2139	69.18	-101.74	-32.56	21.00	-84.06	-30.5	-53.56	peak
4	0.2942	63.82	-101.85	-38.03	18.23	-89.53	-33.27	-56.26	peak
5	0.3593	61.47	-101.91	-40.44	16.49	-91.94	-35.01	-56.93	peak
6	0.4611	57.41	-102.02	-44.61	14.33	-96.11	-37.17	-58.94	peak

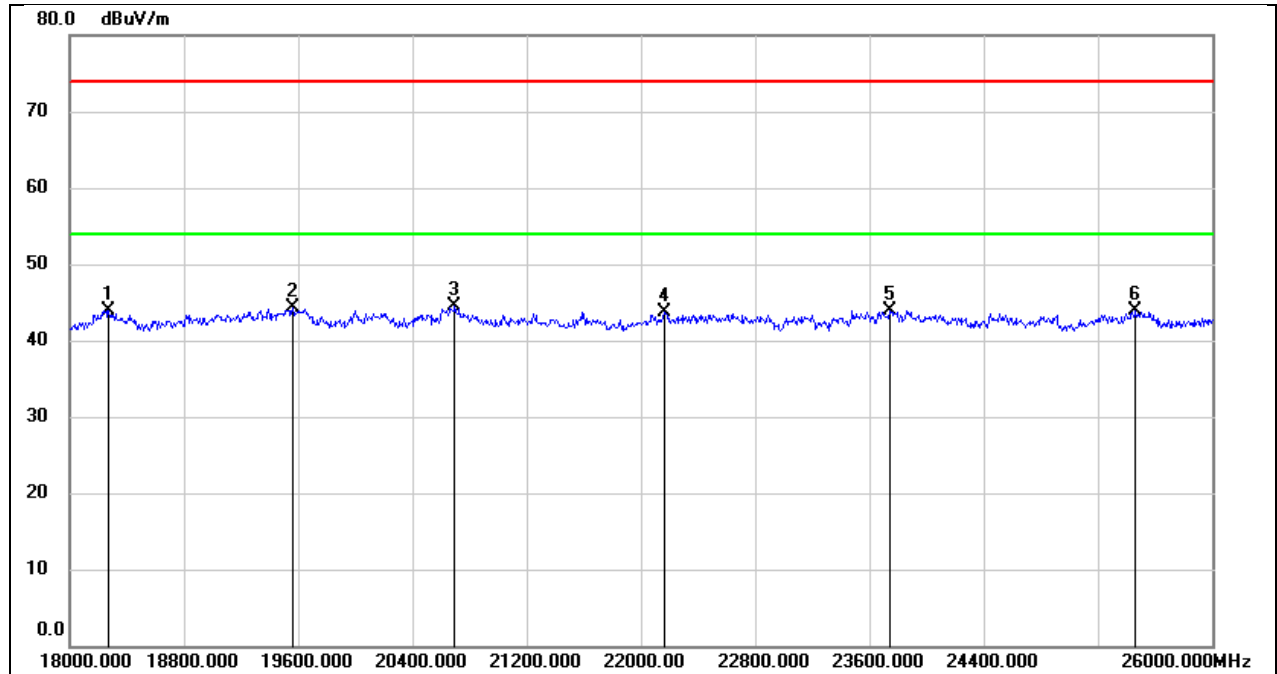
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.6532	62.48	-62.10	0.38	31.30	-51.12	-20.2	-30.92	peak
2	0.9042	61.35	-62.21	-0.86	28.48	-52.36	-23.02	-29.34	peak
3	2.0013	58.02	-61.82	-3.80	29.54	-55.3	-21.96	-33.34	peak
4	5.7145	54.67	-61.39	-6.72	29.54	-58.22	-21.96	-36.26	peak
5	10.7888	53.15	-60.83	-7.68	29.54	-59.18	-21.96	-37.22	peak
6	25.8978	51.76	-60.36	-8.60	29.54	-60.1	-21.96	-38.14	peak

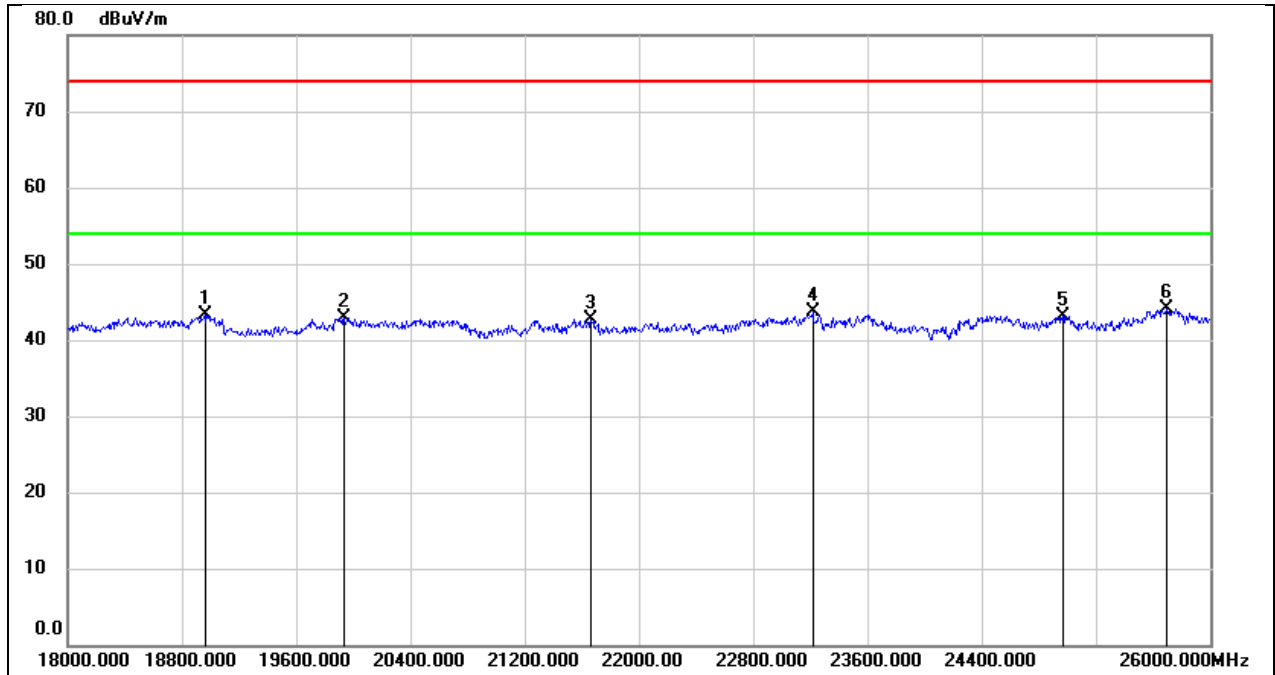
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18272.000	49.41	-5.53	43.88	74.00	-30.12	peak
2	19560.000	49.86	-5.48	44.38	74.00	-29.62	peak
3	20696.000	49.71	-5.16	44.55	74.00	-29.45	peak
4	22160.000	48.08	-4.31	43.77	74.00	-30.23	peak
5	23744.000	47.15	-3.20	43.95	74.00	-30.05	peak
6	25464.000	45.71	-1.76	43.95	74.00	-30.05	peak

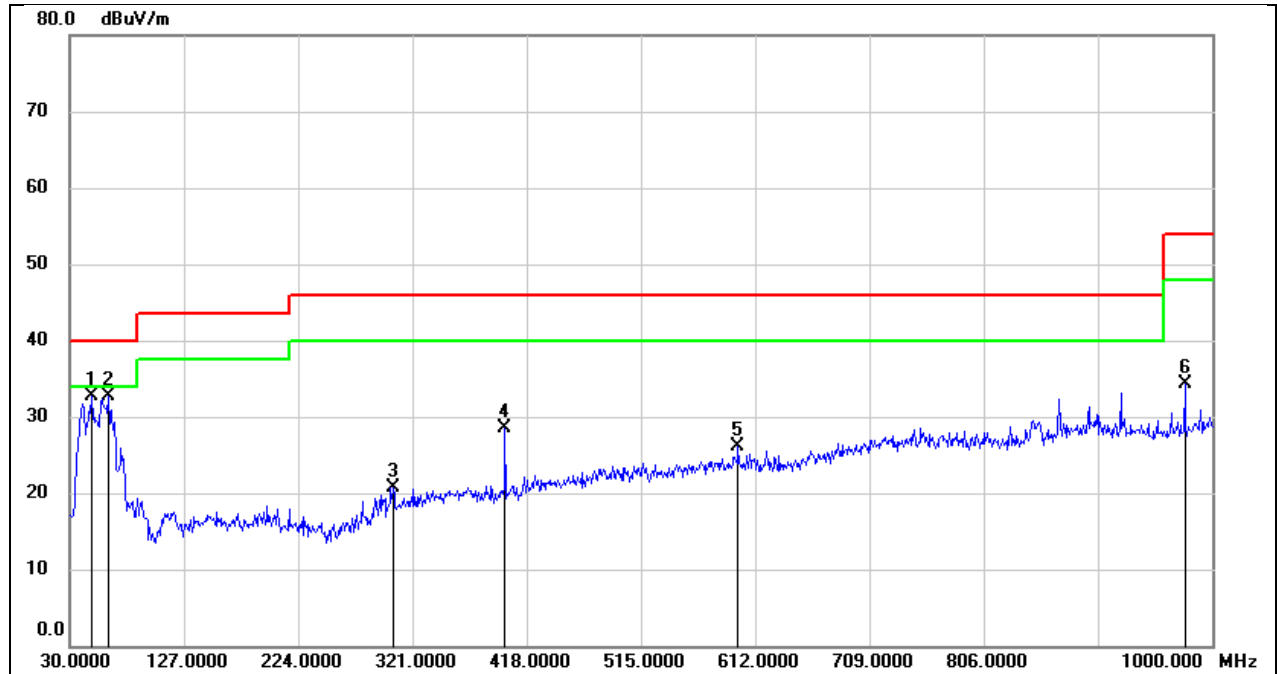
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18960.000	48.51	-5.25	43.26	74.00	-30.74	peak
2	19936.000	48.39	-5.40	42.99	74.00	-31.01	peak
3	21664.000	47.23	-4.45	42.78	74.00	-31.22	peak
4	23216.000	47.01	-3.38	43.63	74.00	-30.37	peak
5	24968.000	45.26	-2.14	43.12	74.00	-30.88	peak
6	25696.000	44.94	-0.86	44.08	74.00	-29.92	peak

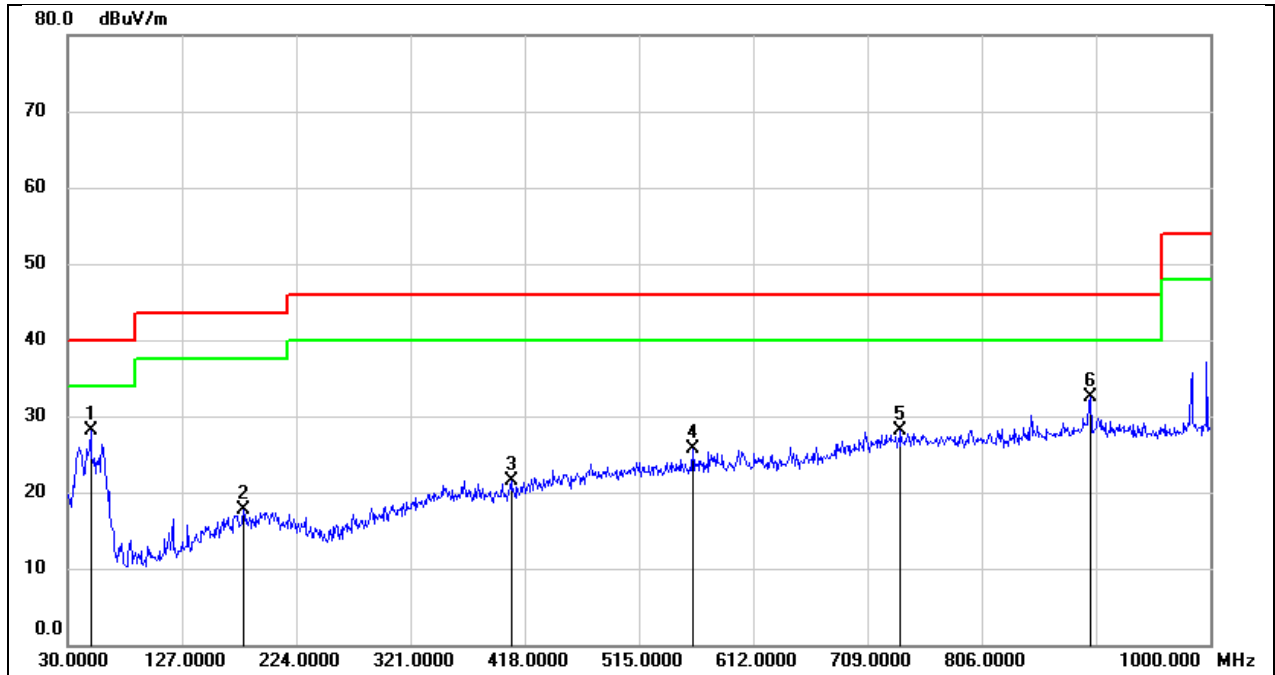
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	48.4300	47.43	-14.81	32.62	40.00	-7.38	QP
2	62.9800	48.14	-15.36	32.78	40.00	-7.22	QP
3	304.5100	31.24	-10.48	20.76	46.00	-25.24	QP
4	399.5700	37.18	-8.63	28.55	46.00	-17.45	QP
5	597.4500	31.03	-4.92	26.11	46.00	-19.89	QP
6	976.7200	34.41	-0.07	34.34	54.00	-19.66	QP

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.4000	43.04	-14.86	28.18	40.00	-11.82	QP
2	179.3800	28.73	-11.10	17.63	43.50	-25.87	QP
3	406.3599	30.02	-8.45	21.57	46.00	-24.43	QP
4	560.5900	31.41	-5.62	25.79	46.00	-20.21	QP
5	737.1300	29.80	-1.64	28.16	46.00	-17.84	QP
6	898.1500	32.44	0.15	32.59	46.00	-13.41	QP

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

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISSED RSS-Gen Clause 8.8

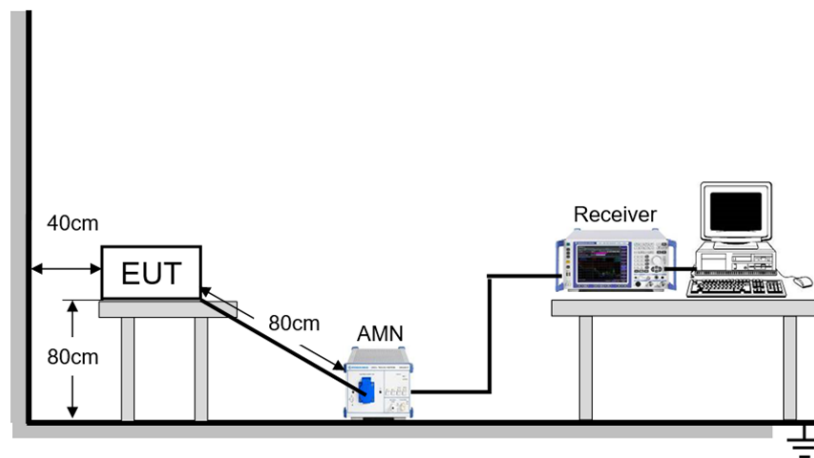
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

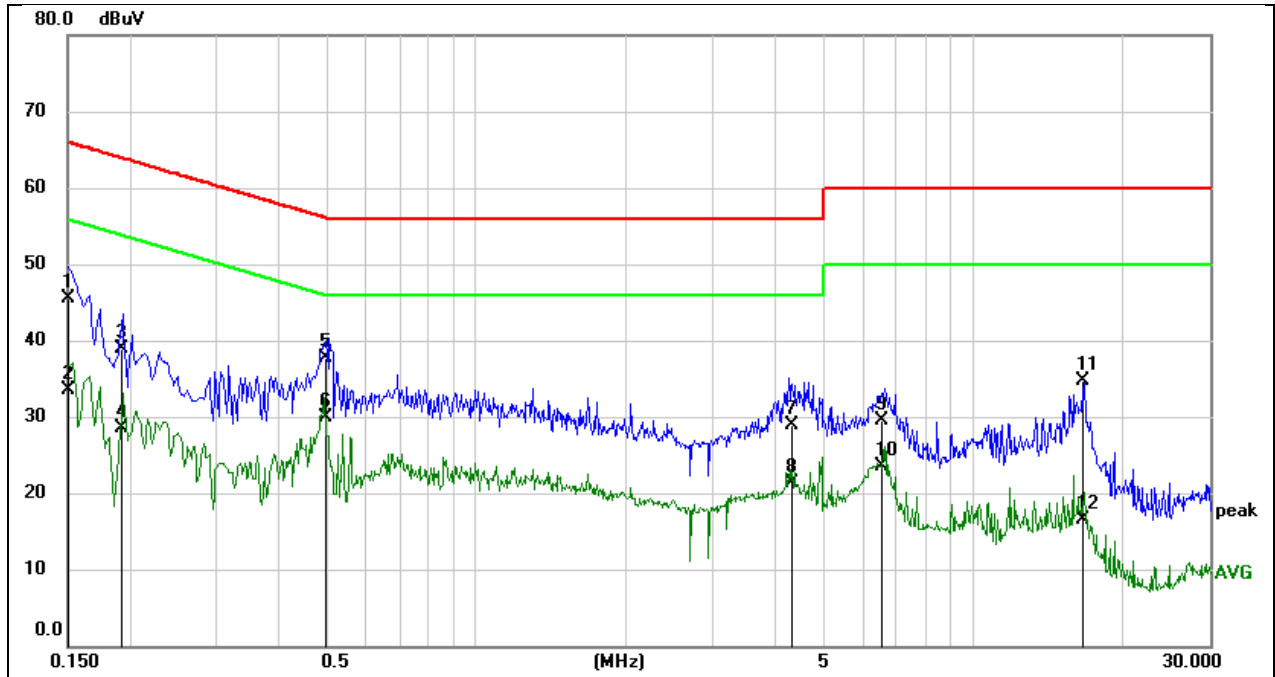
Temperature	22.5°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	December 25, 2024	Test By	Johnson Liu
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TEST RESULTS

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



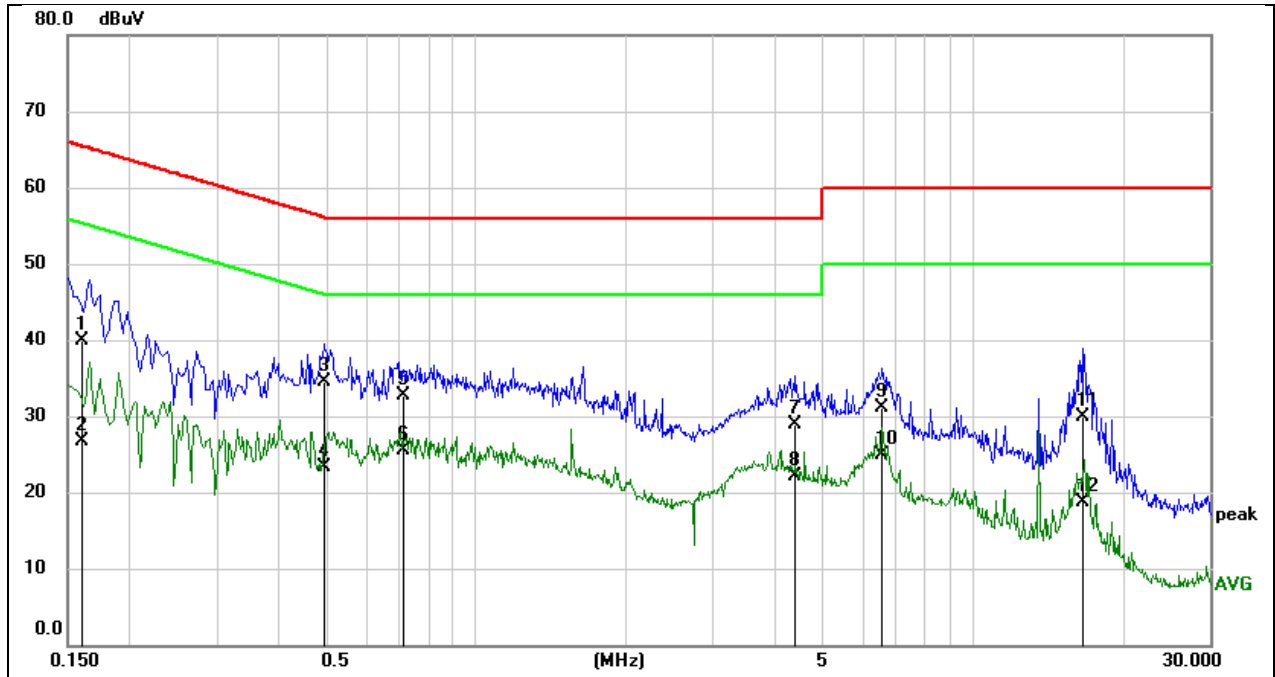
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1505	35.89	9.64	45.53	65.97	-20.44	QP
2	0.1505	23.91	9.64	33.55	55.97	-22.42	AVG
3	0.1921	29.30	9.64	38.94	63.95	-25.01	QP
4	0.1921	18.94	9.64	28.58	53.95	-25.37	AVG
5	0.4985	28.08	9.64	37.72	56.02	-18.30	QP
6	0.4985	20.24	9.64	29.88	46.02	-16.14	AVG
7	4.3152	19.25	9.64	28.89	56.00	-27.11	QP
8	4.3152	11.57	9.64	21.21	46.00	-24.79	AVG
9	6.5506	19.70	9.71	29.41	60.00	-30.59	QP
10	6.5506	13.81	9.71	23.52	50.00	-26.48	AVG
11	16.7022	24.97	9.74	34.71	60.00	-25.29	QP
12	16.7022	6.67	9.74	16.41	50.00	-33.59	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.

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



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1611	30.32	9.64	39.96	65.41	-25.45	QP
2	0.1611	17.12	9.64	26.76	55.41	-28.65	AVG
3	0.4906	24.81	9.64	34.45	56.16	-21.71	QP
4	0.4906	13.76	9.64	23.40	46.16	-22.76	AVG
5	0.7152	23.14	9.63	32.77	56.00	-23.23	QP
6	0.7152	15.83	9.63	25.46	46.00	-20.54	AVG
7	4.3798	19.25	9.64	28.89	56.00	-27.11	QP
8	4.3798	12.46	9.64	22.10	46.00	-23.90	AVG
9	6.5751	21.30	9.72	31.02	60.00	-28.98	QP
10	6.5751	15.10	9.72	24.82	50.00	-25.18	AVG
11	16.6631	20.18	9.74	29.92	60.00	-30.08	QP
12	16.6631	8.87	9.74	18.61	50.00	-31.39	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.

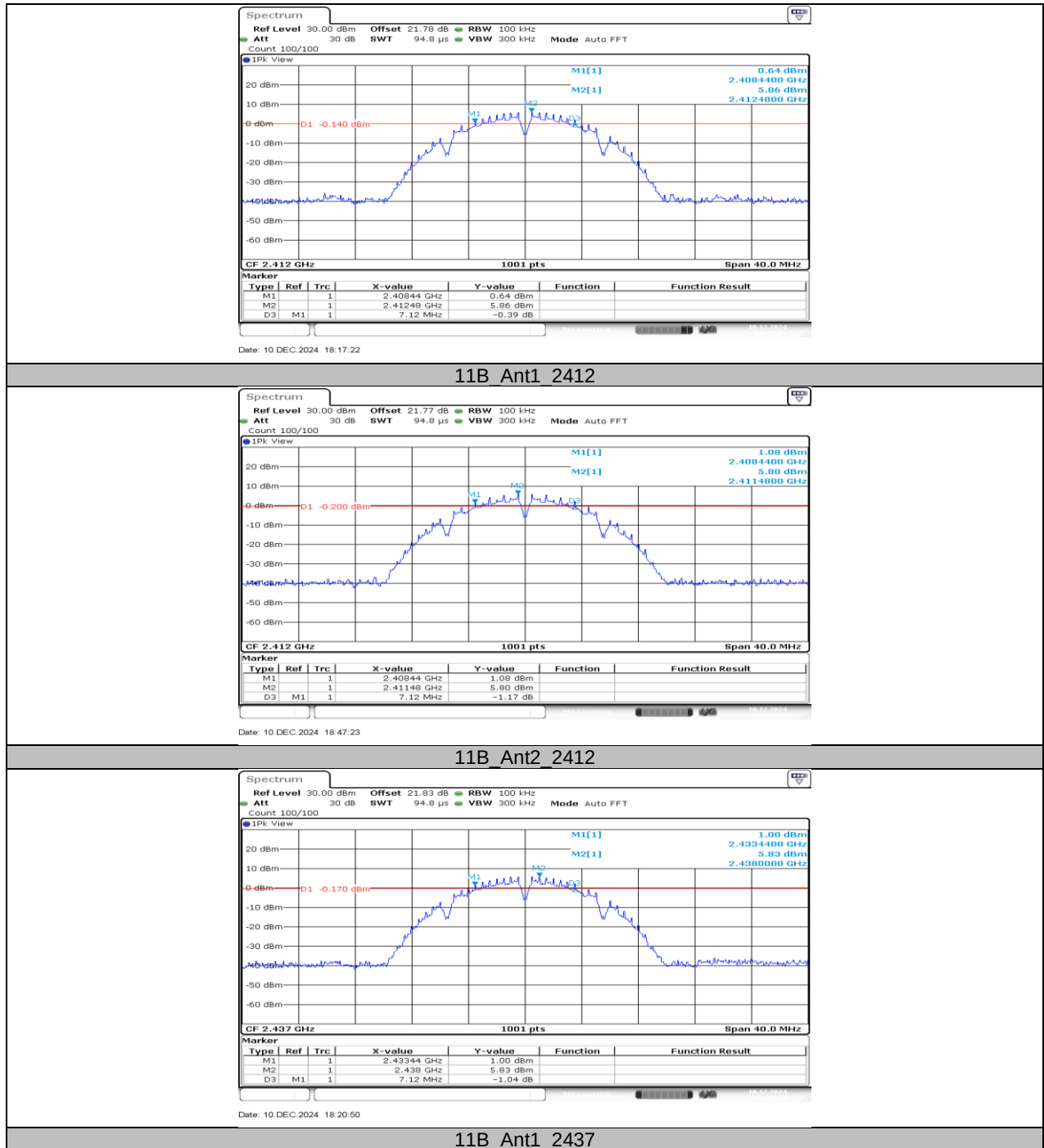
11. TEST DATA

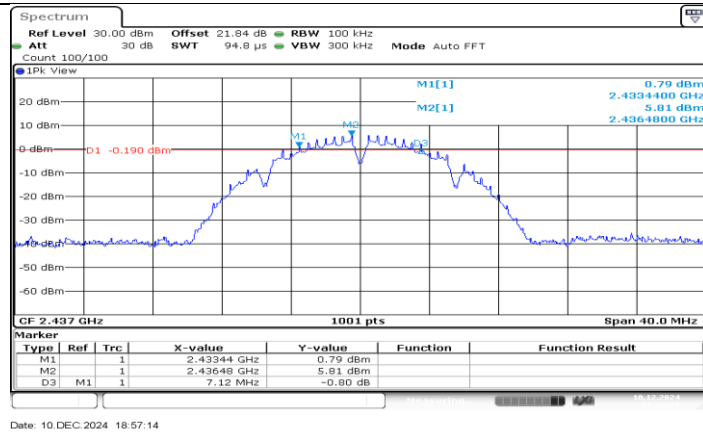
11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

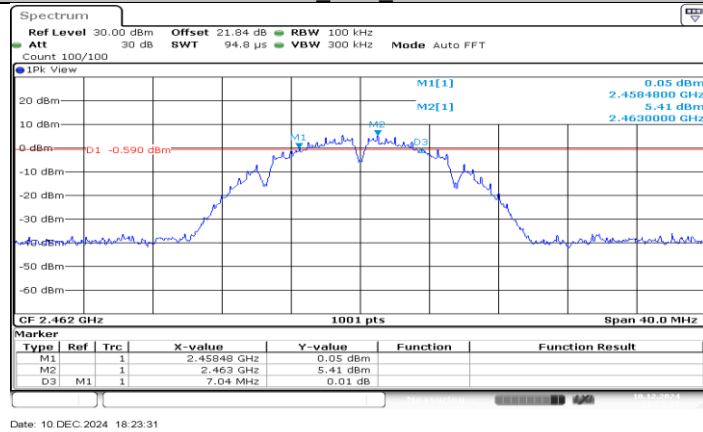
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.12	2408.44	2415.56	≥0.5	PASS
	Ant2	2412	7.12	2408.44	2415.56	≥0.5	PASS
	Ant1	2437	7.12	2433.44	2440.56	≥0.5	PASS
	Ant2	2437	7.12	2433.44	2440.56	≥0.5	PASS
	Ant1	2462	7.04	2458.48	2465.52	≥0.5	PASS
	Ant2	2462	7.12	2458.44	2465.56	≥0.5	PASS
11G	Ant1	2412	16.32	2403.84	2420.16	≥0.5	PASS
	Ant2	2412	15.72	2403.84	2419.56	≥0.5	PASS
	Ant1	2437	16.28	2428.84	2445.12	≥0.5	PASS
	Ant2	2437	16.36	2428.80	2445.16	≥0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	≥0.5	PASS
	Ant2	2462	16.32	2453.84	2470.16	≥0.5	PASS
11N20MIMO	Ant1	2412	16.32	2404.44	2420.76	≥0.5	PASS
	Ant2	2412	15.28	2404.20	2419.48	≥0.5	PASS
	Ant1	2437	15.44	2429.12	2444.56	≥0.5	PASS
	Ant2	2437	17.56	2428.20	2445.76	≥0.5	PASS
	Ant1	2462	15.52	2453.60	2469.12	≥0.5	PASS
	Ant2	2462	16.32	2453.84	2470.16	≥0.5	PASS
11N40MIMO	Ant1	2422	35.12	2404.48	2439.60	≥0.5	PASS
	Ant2	2422	35.12	2404.48	2439.60	≥0.5	PASS
	Ant1	2437	35.12	2419.48	2454.60	≥0.5	PASS
	Ant2	2437	35.12	2419.48	2454.60	≥0.5	PASS
	Ant1	2452	35.12	2434.48	2469.60	≥0.5	PASS
	Ant2	2452	35.12	2434.48	2469.60	≥0.5	PASS
11AX20MIMO	Ant1	2412	17.40	2403.40	2420.80	≥0.5	PASS
	Ant2	2412	18.04	2402.96	2421.00	≥0.5	PASS
	Ant1	2437	18.44	2427.96	2446.40	≥0.5	PASS
	Ant2	2437	18.20	2427.80	2446.00	≥0.5	PASS
	Ant1	2462	16.88	2452.96	2469.84	≥0.5	PASS
	Ant2	2462	17.32	2453.20	2470.52	≥0.5	PASS
11AX40MIMO	Ant1	2422	36.56	2403.76	2440.32	≥0.5	PASS
	Ant2	2422	37.60	2403.20	2440.80	≥0.5	PASS
	Ant1	2437	35.76	2418.92	2454.68	≥0.5	PASS
	Ant2	2437	36.88	2418.20	2455.08	≥0.5	PASS
	Ant1	2452	37.60	2433.20	2470.80	≥0.5	PASS
	Ant2	2452	37.36	2433.20	2470.56	≥0.5	PASS

11.1.2. Test Graphs

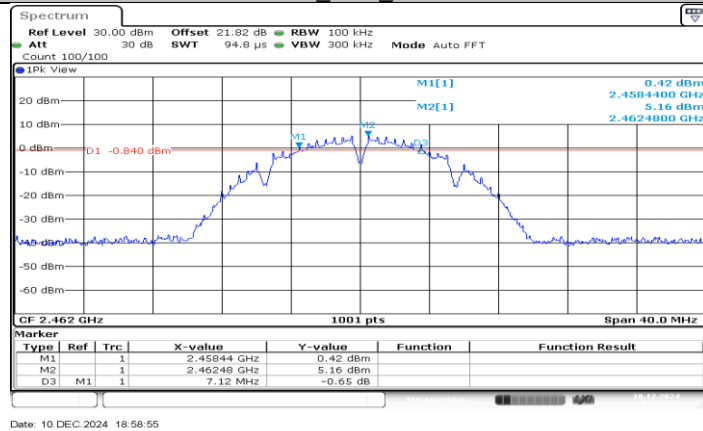




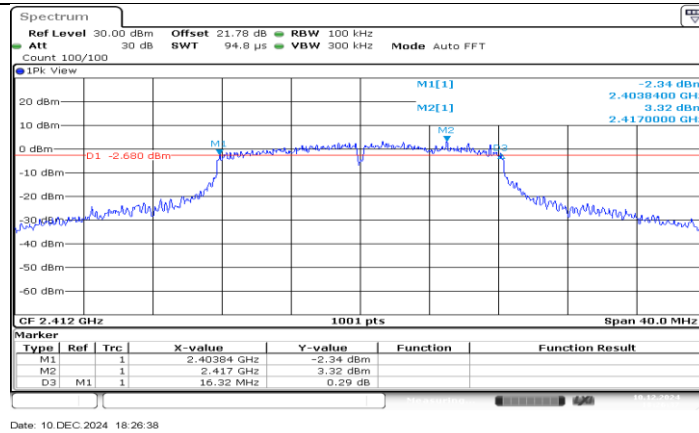
11B_Ant2_2437



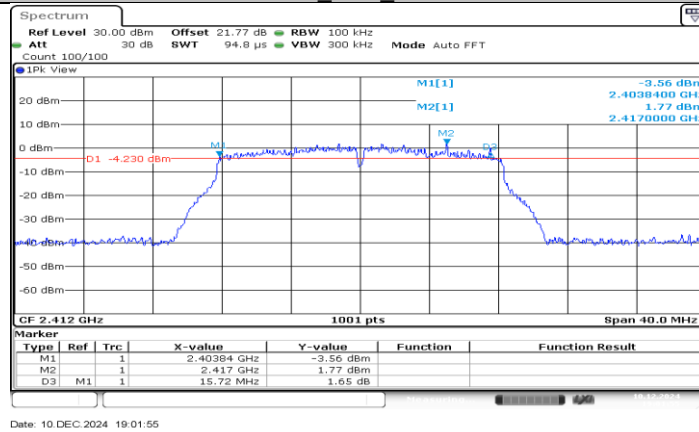
11B_Ant1_2462



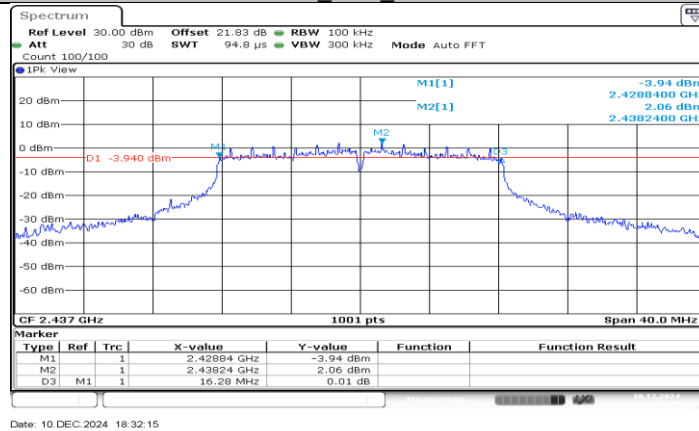
11B_Ant2_2462



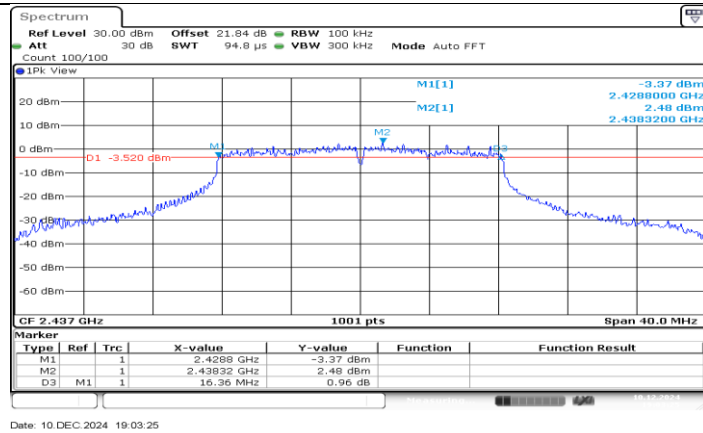
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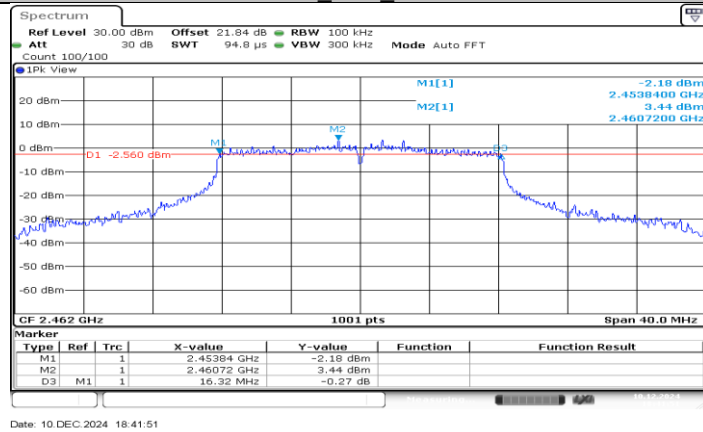
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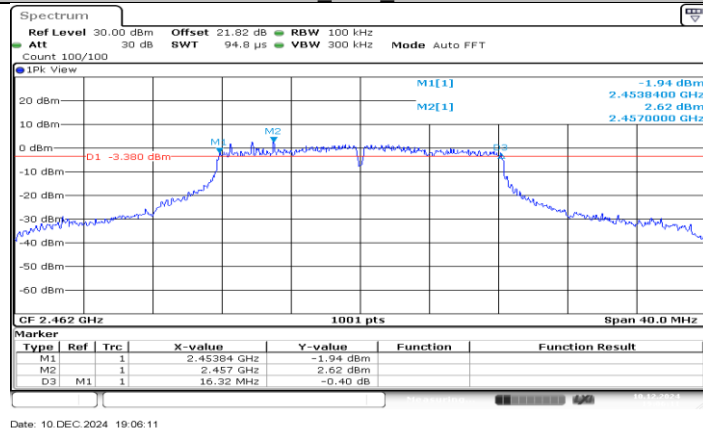
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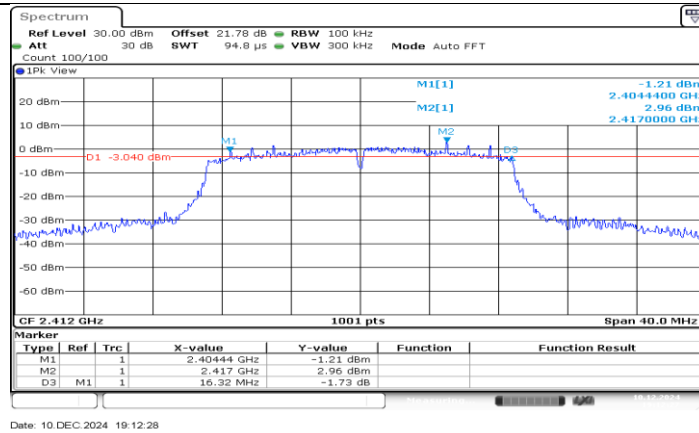
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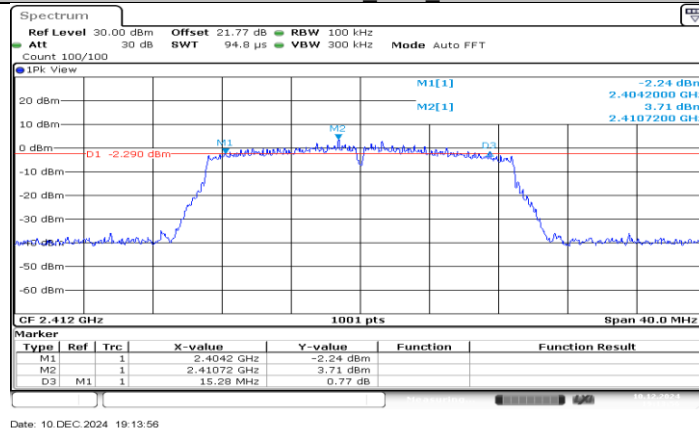
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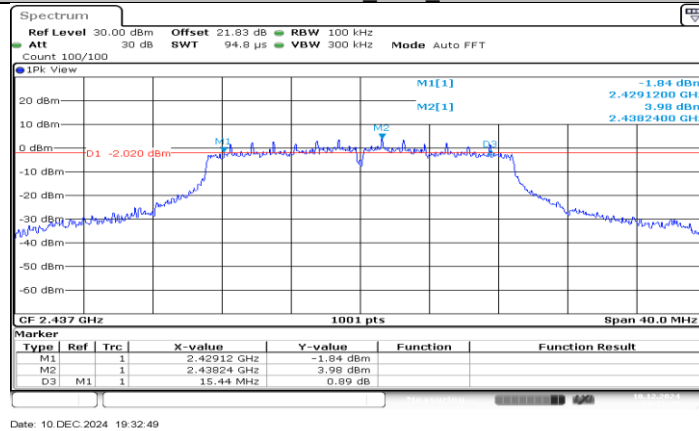
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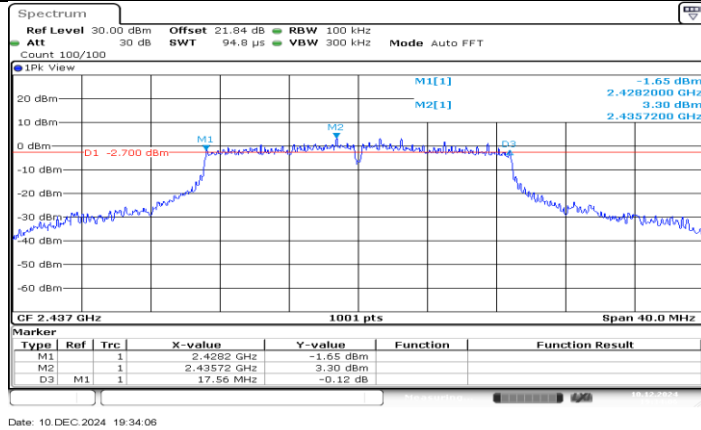
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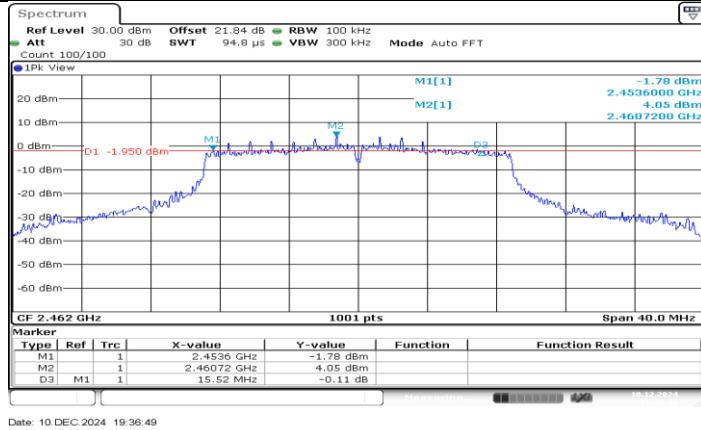
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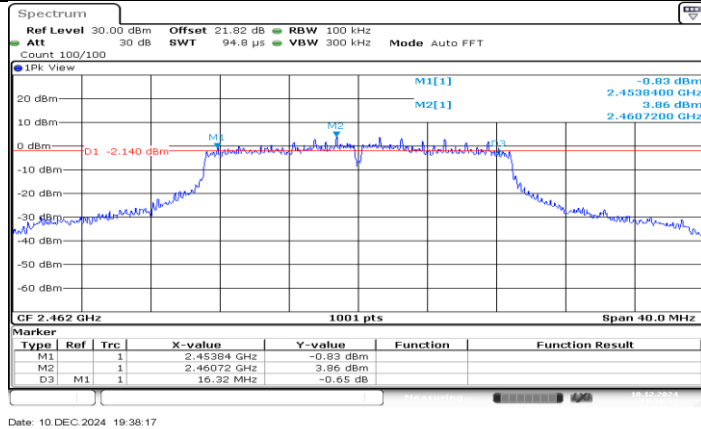
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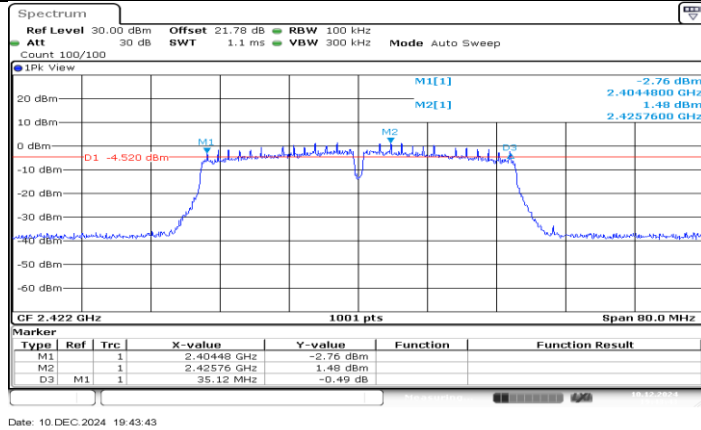
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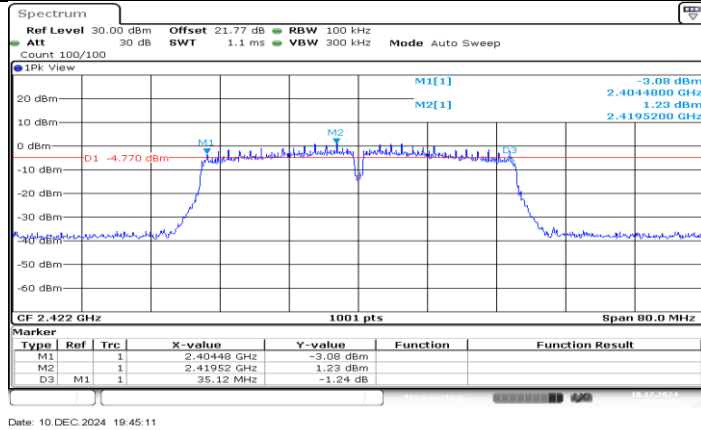
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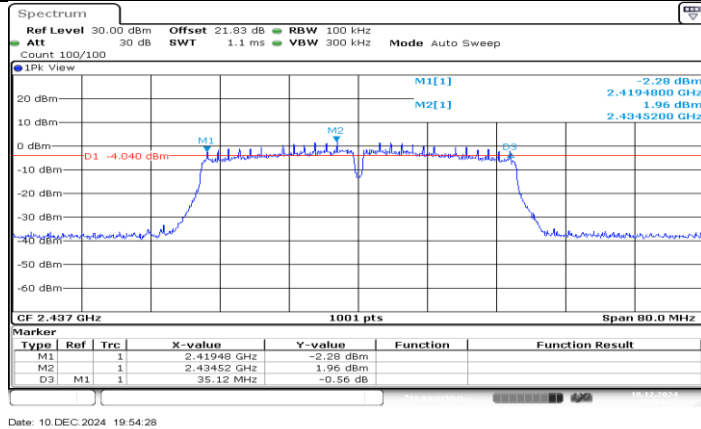
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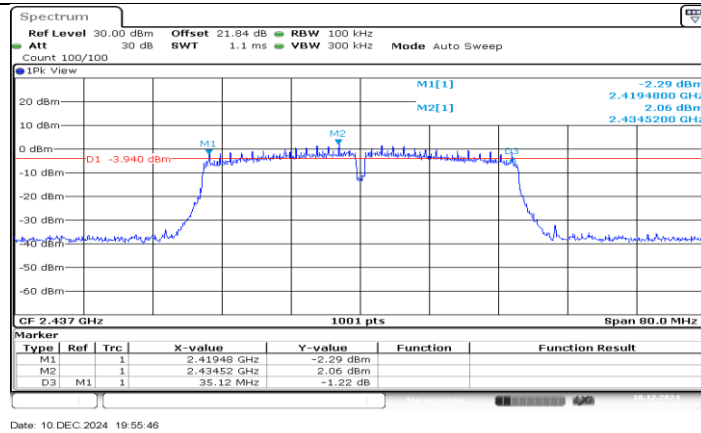
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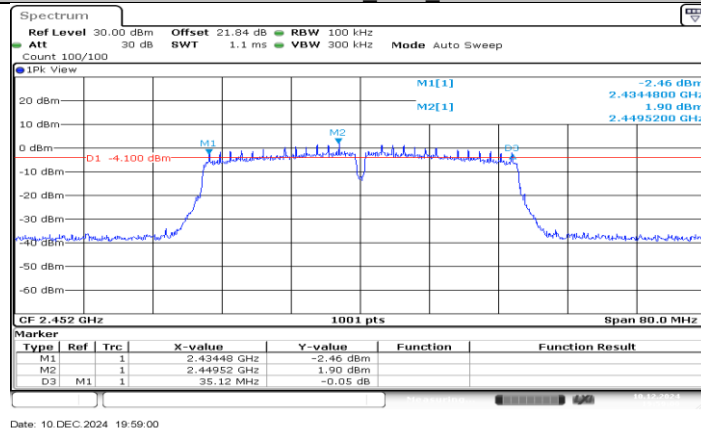
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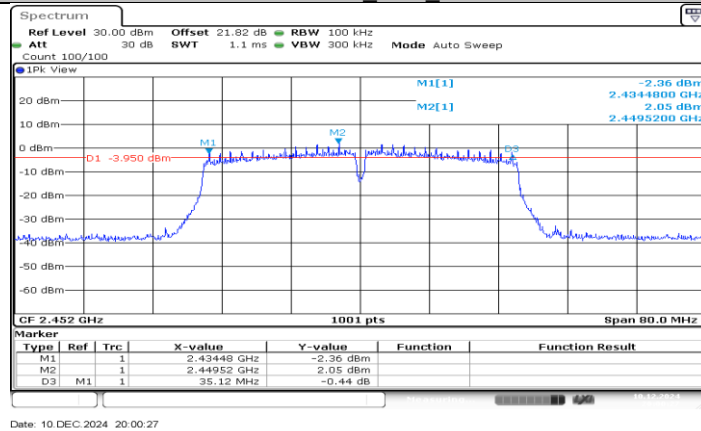
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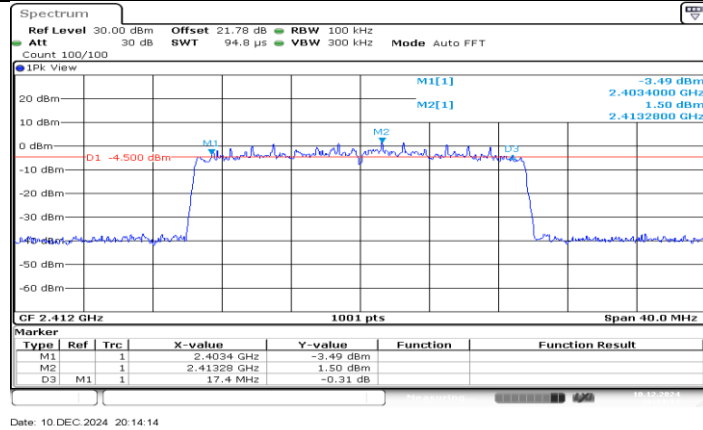
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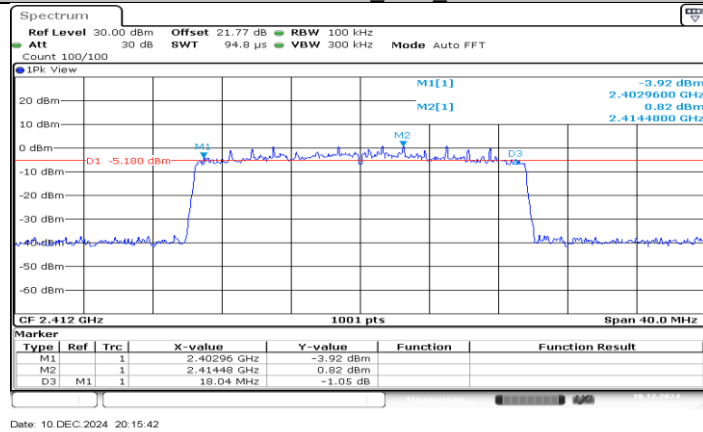
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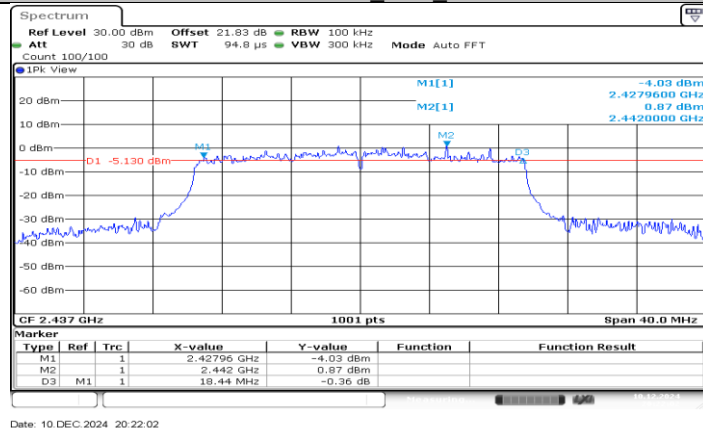
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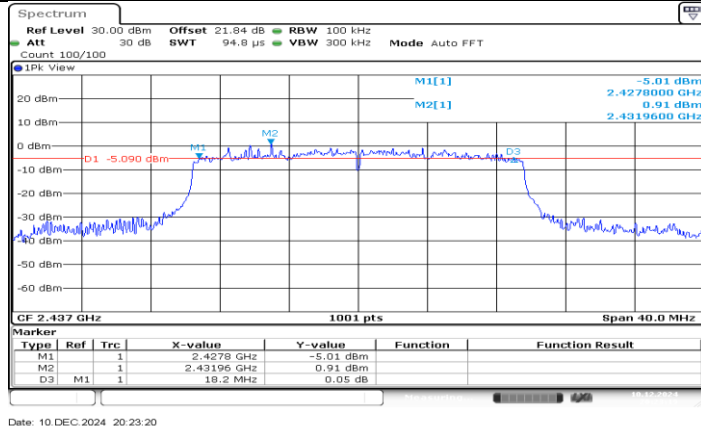
11AX20MIMO_Ant1_2412



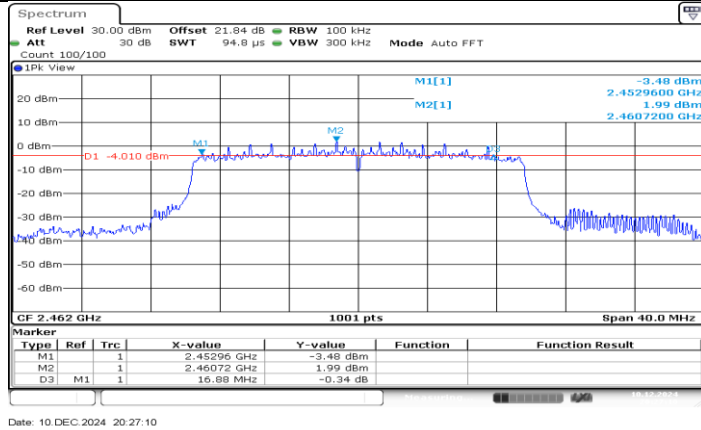
11AX20MIMO_Ant2_2412



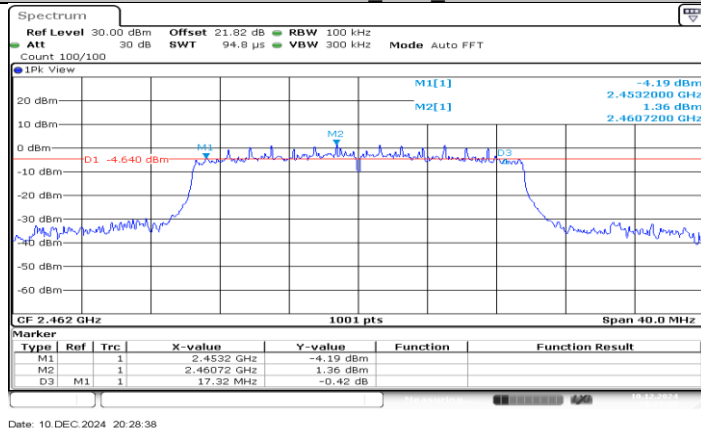
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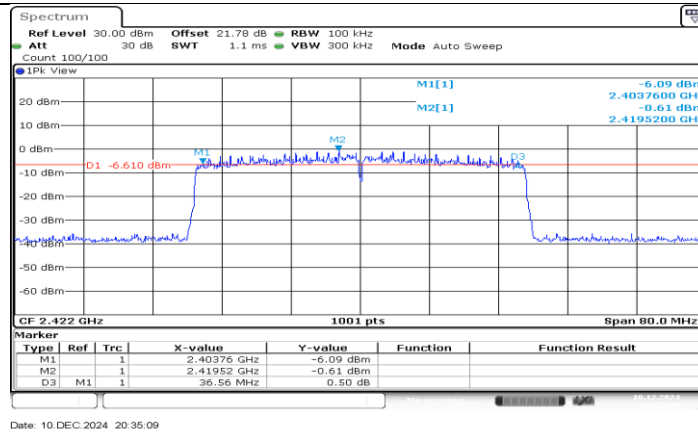
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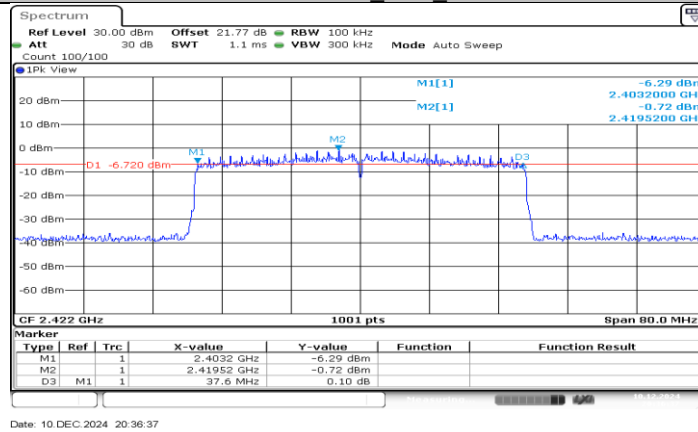
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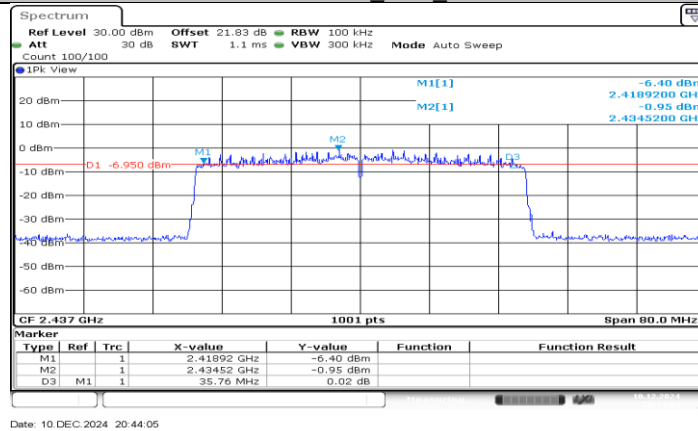
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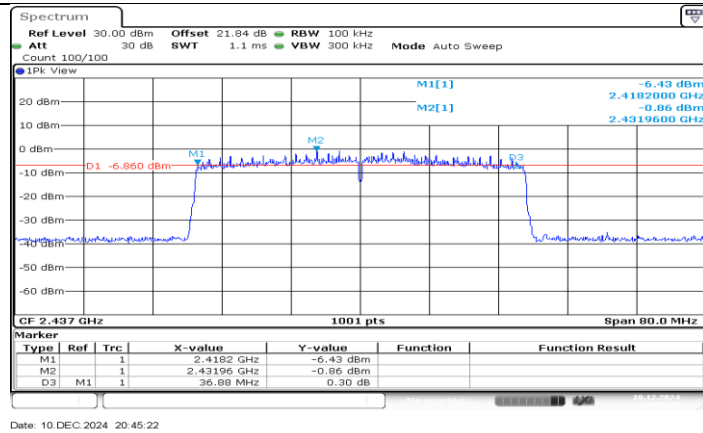
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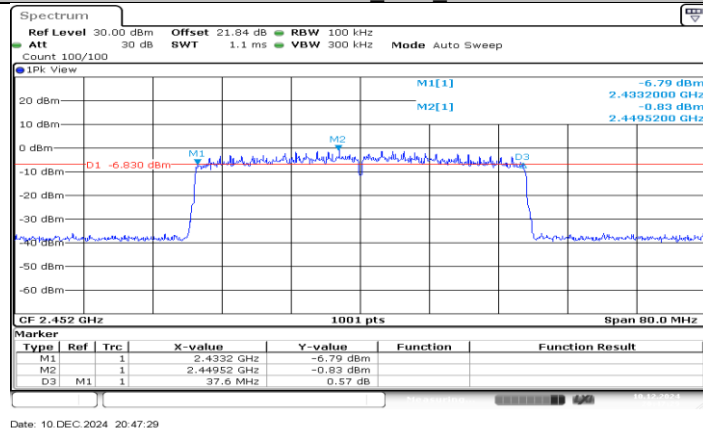
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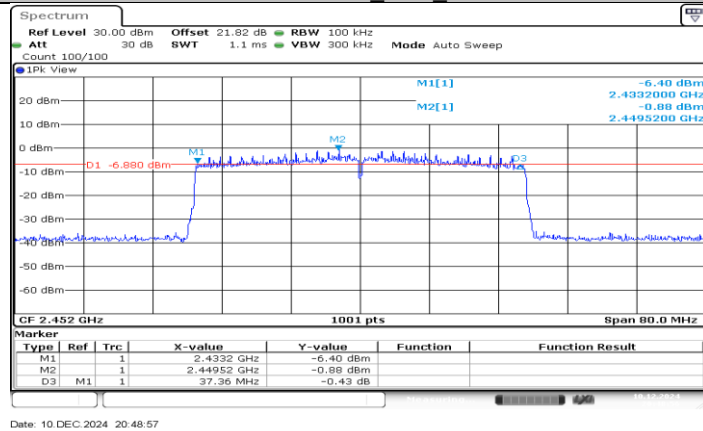
11AX40MIMO_Ant1_2437



11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452



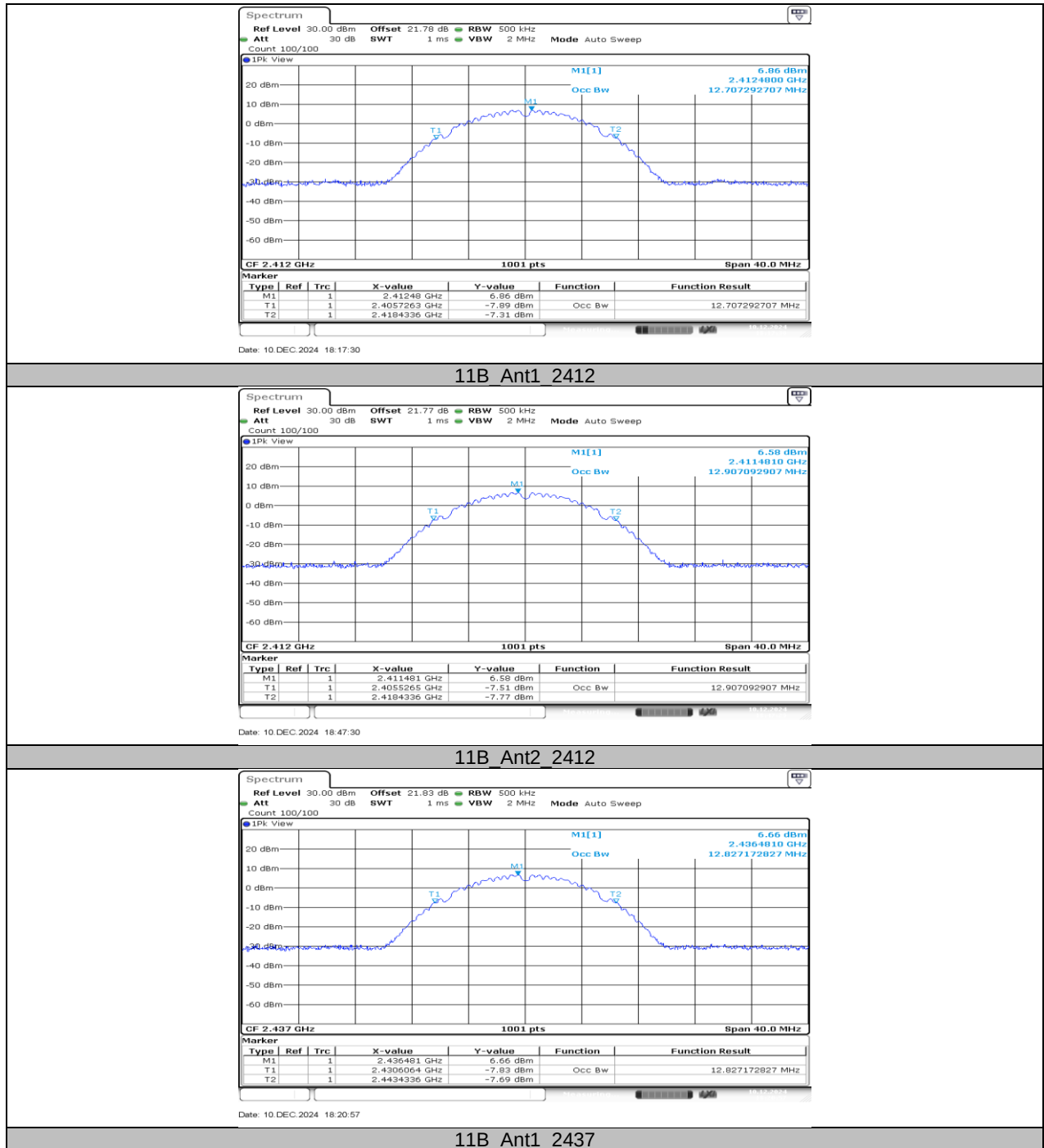
11AX40MIMO_Ant2_2452

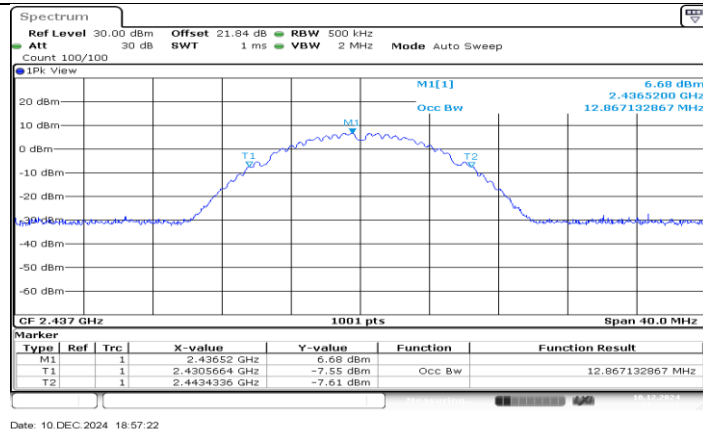
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

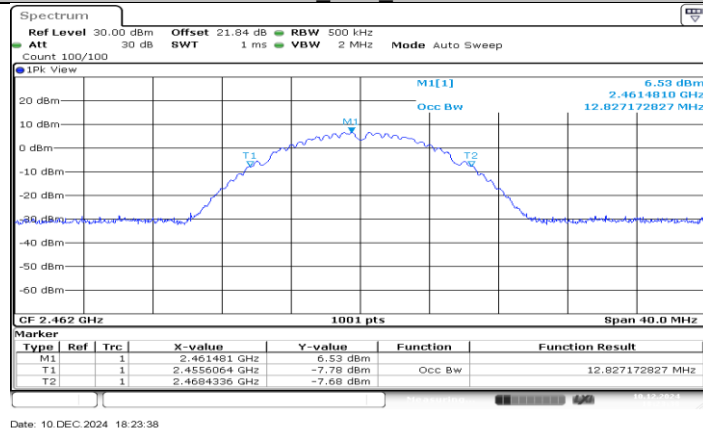
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.707	2405.7263	2418.4336
	Ant2	2412	12.907	2405.5265	2418.4336
	Ant1	2437	12.827	2430.6064	2443.4336
	Ant2	2437	12.867	2430.5664	2443.4336
	Ant1	2462	12.827	2455.6064	2468.4336
	Ant2	2462	12.867	2455.5664	2468.4336
11G	Ant1	2412	17.662	2403.2887	2420.9510
	Ant2	2412	17.063	2403.4486	2420.5115
	Ant1	2437	18.901	2427.4895	2446.3906
	Ant2	2437	18.781	2427.4895	2446.2707
	Ant1	2462	18.701	2452.5694	2471.2707
	Ant2	2462	18.741	2452.6094	2471.3506
11N20MIMO	Ant1	2412	18.142	2403.0090	2421.1508
	Ant2	2412	17.742	2403.1289	2420.8711
	Ant1	2437	19.62	2427.2098	2446.8302
	Ant2	2437	18.621	2427.6893	2446.3107
	Ant1	2462	19.7	2452.2098	2471.9101
	Ant2	2462	18.701	2452.6094	2471.3107
11N40MIMO	Ant1	2422	36.364	2403.8581	2440.2218
	Ant2	2422	36.284	2403.9381	2440.2218
	Ant1	2437	36.364	2418.8581	2455.2218
	Ant2	2437	36.204	2418.9381	2455.1419
	Ant1	2452	36.204	2433.9381	2470.1419
	Ant2	2452	36.204	2433.9381	2470.1419
11AX20MIMO	Ant1	2412	18.861	2402.5694	2421.4306
	Ant2	2412	18.861	2402.6094	2421.4705
	Ant1	2437	19.261	2427.3696	2446.6304
	Ant2	2437	19.261	2427.3696	2446.6304
	Ant1	2462	19.261	2452.4096	2471.6703
	Ant2	2462	19.221	2452.3696	2471.5904
11AX40MIMO	Ant1	2422	37.722	2403.2188	2440.9411
	Ant2	2422	37.802	2403.1389	2440.9411
	Ant1	2437	37.722	2418.2188	2455.9411
	Ant2	2437	37.722	2418.2188	2455.9411
	Ant1	2452	37.802	2433.0589	2470.8611
	Ant2	2452	37.802	2433.1389	2470.9411

11.2.2. Test Graphs

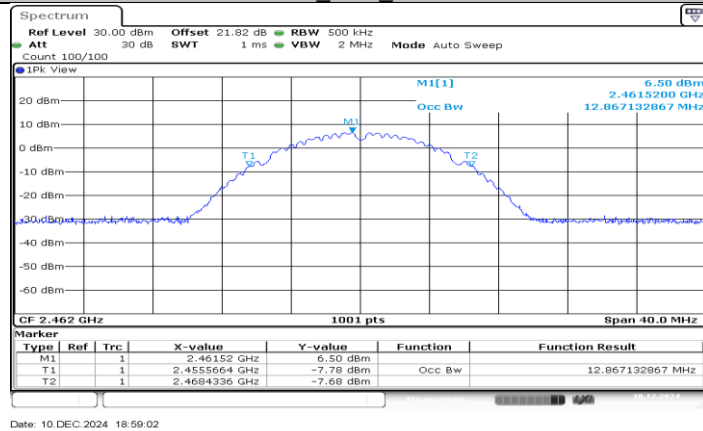




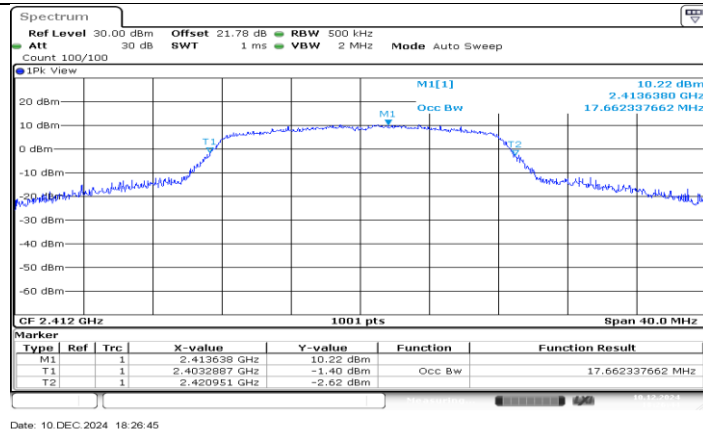
11B_Ant2_2437



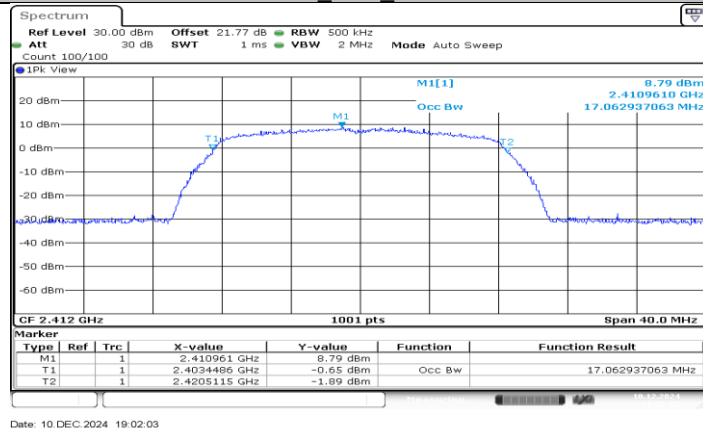
11B_Ant1_2462



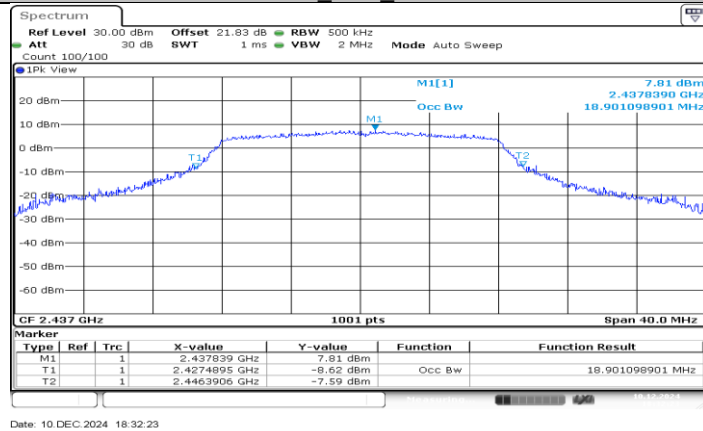
11B_Ant2_2462



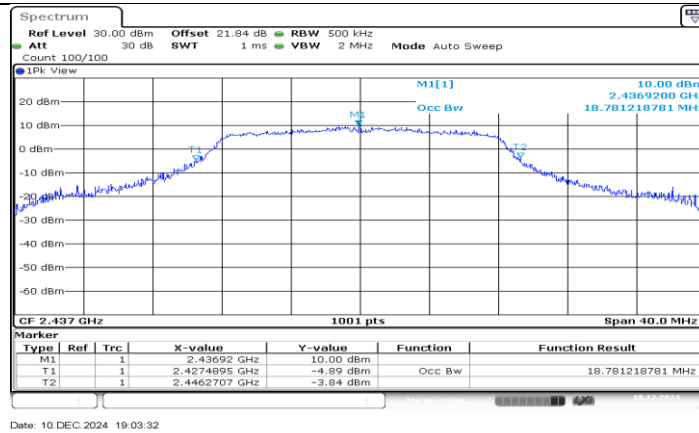
11G_Ant1_2412



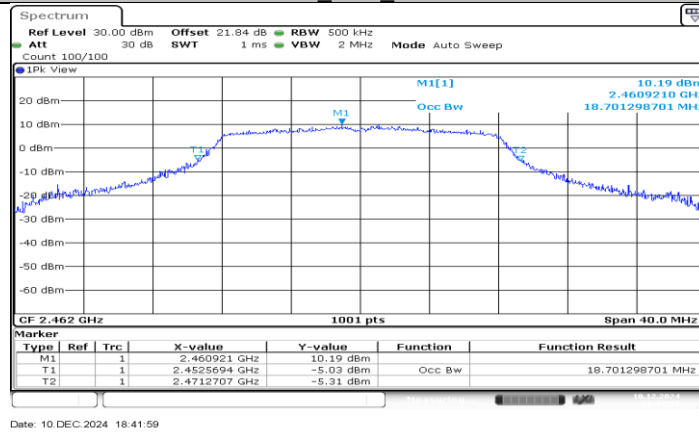
11G_Ant2_2412



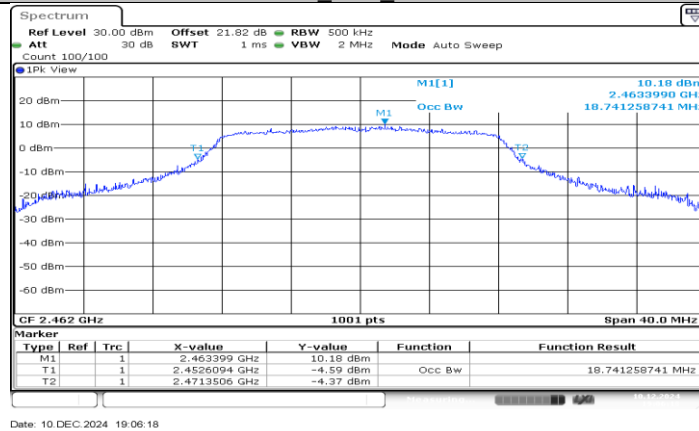
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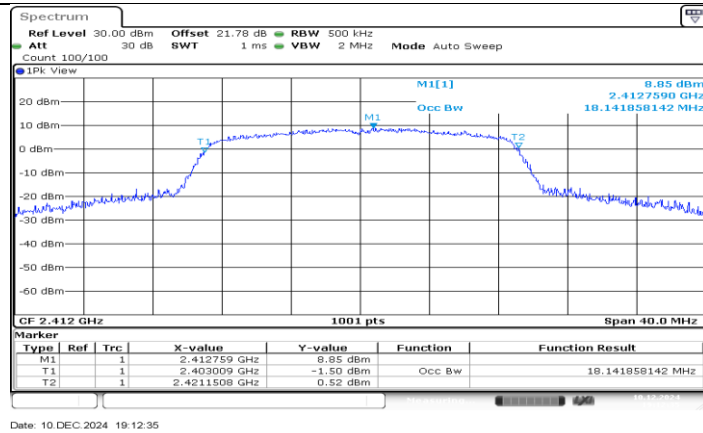
11G_Ant2_2437



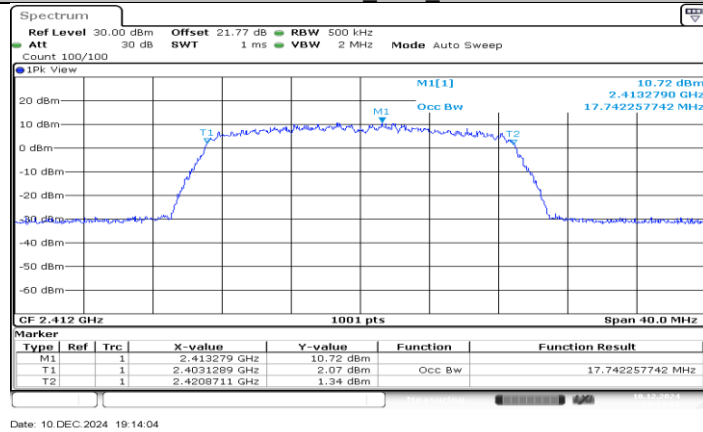
11G_Ant1_2462



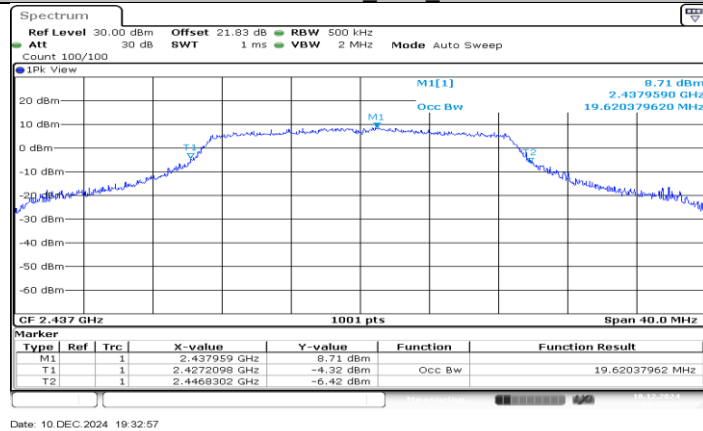
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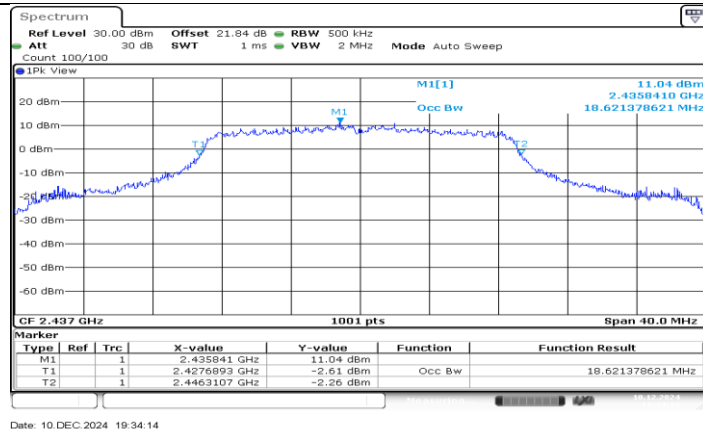
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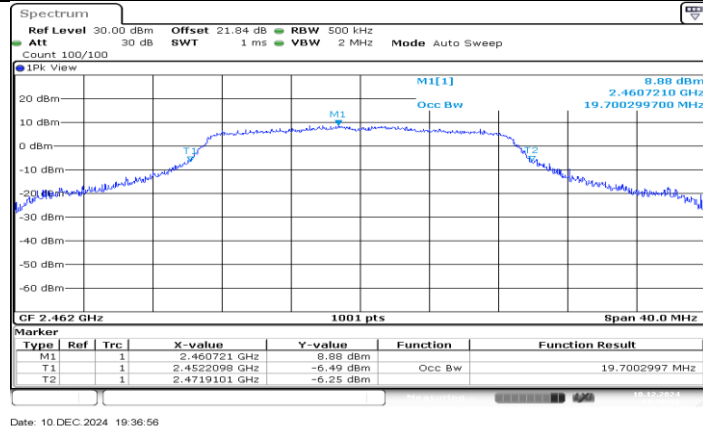
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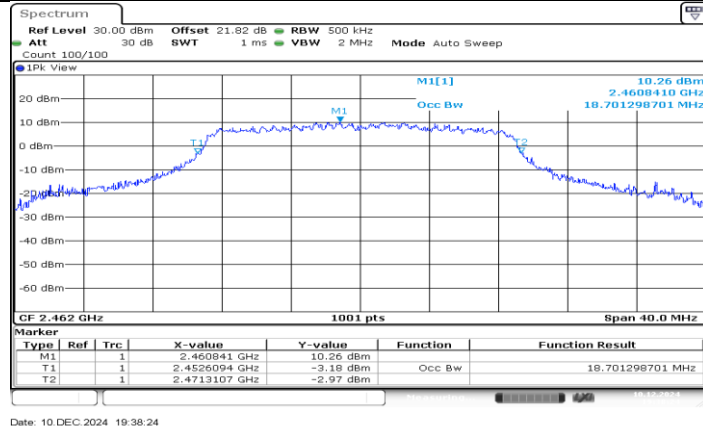
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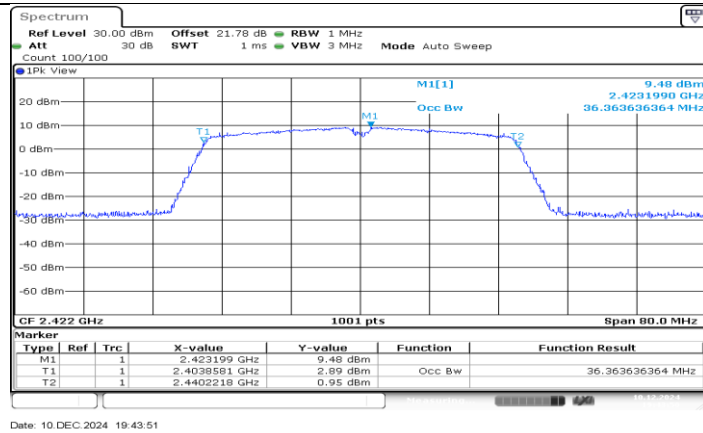
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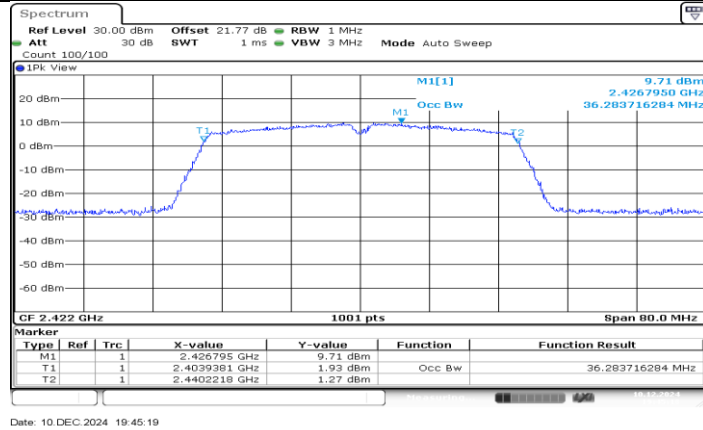
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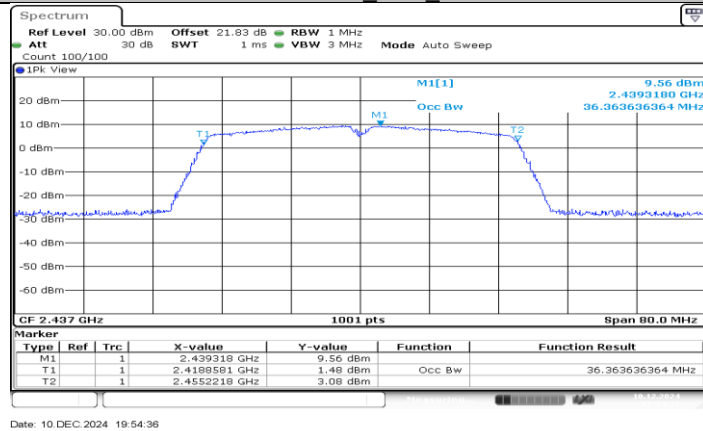
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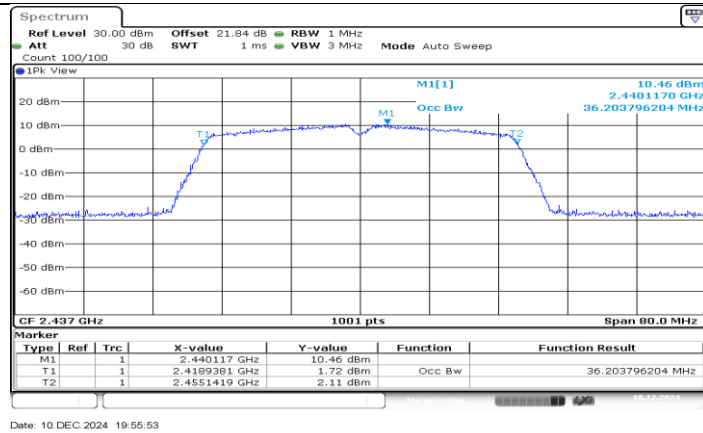
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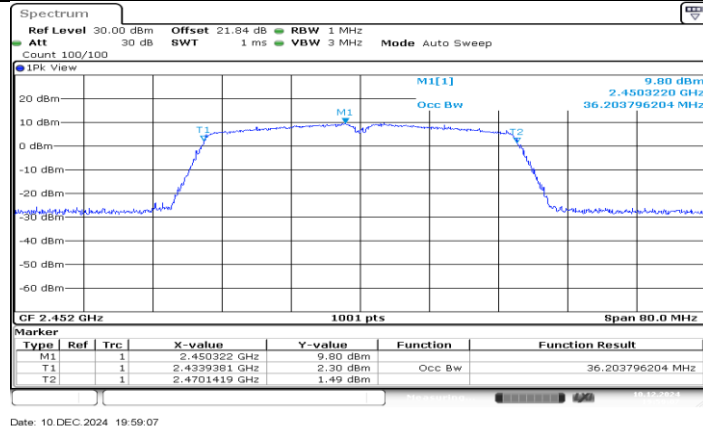
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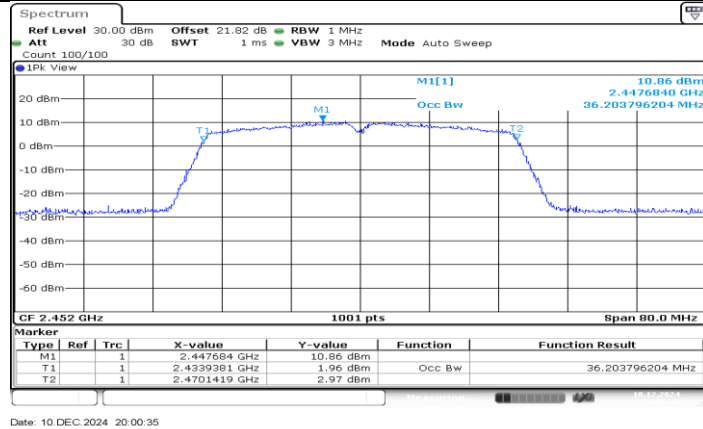
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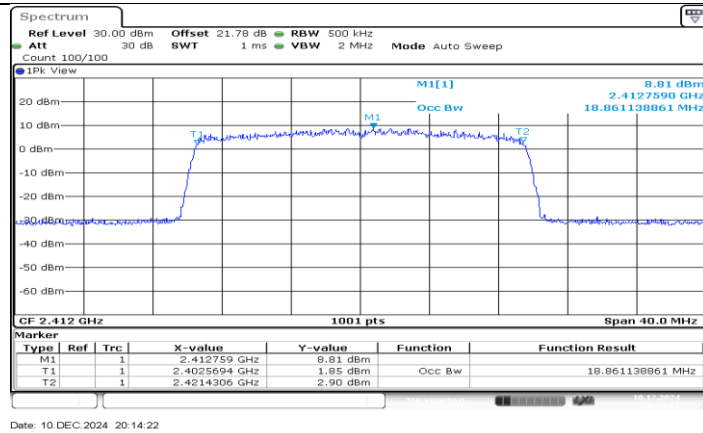
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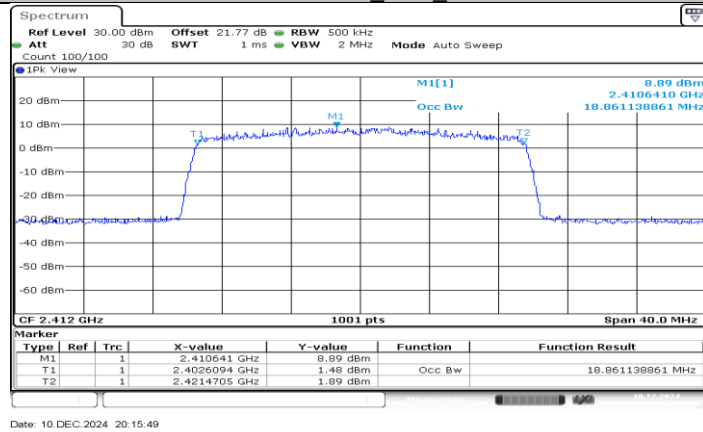
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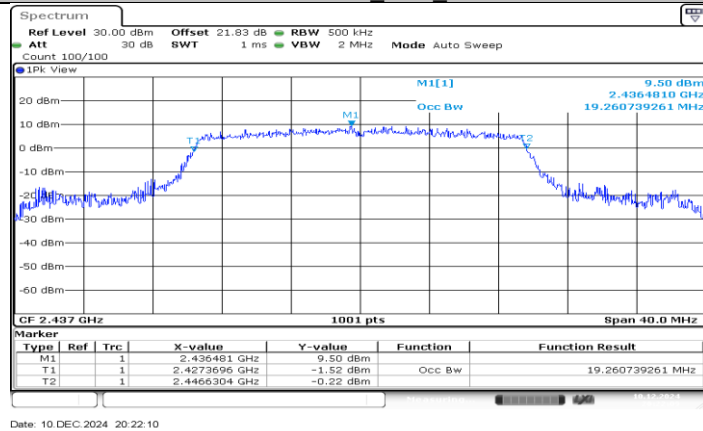
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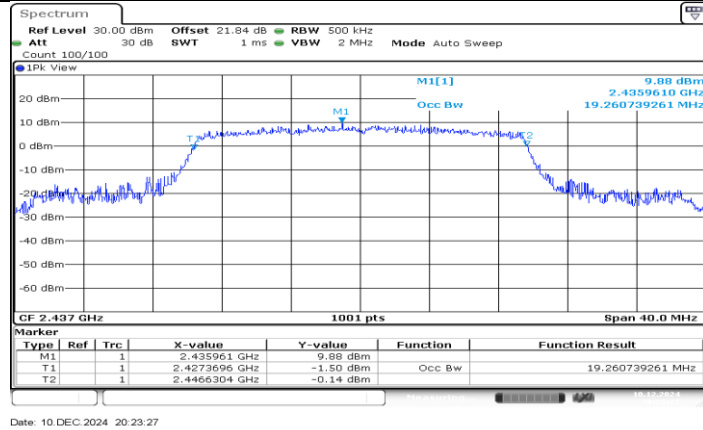
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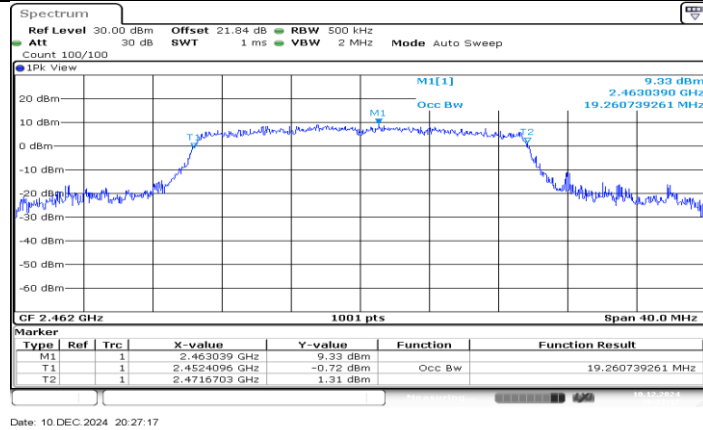
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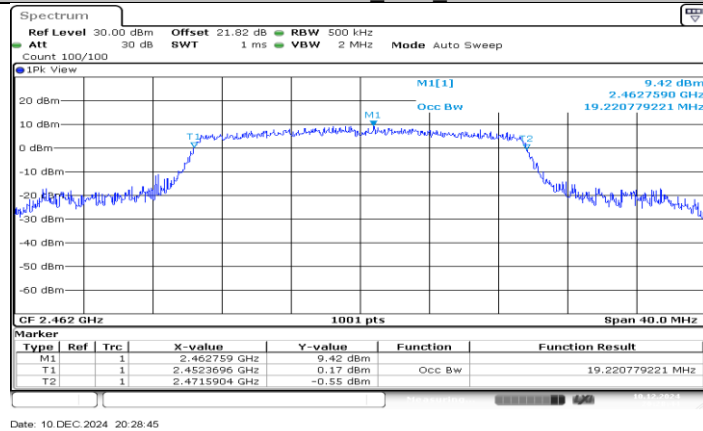
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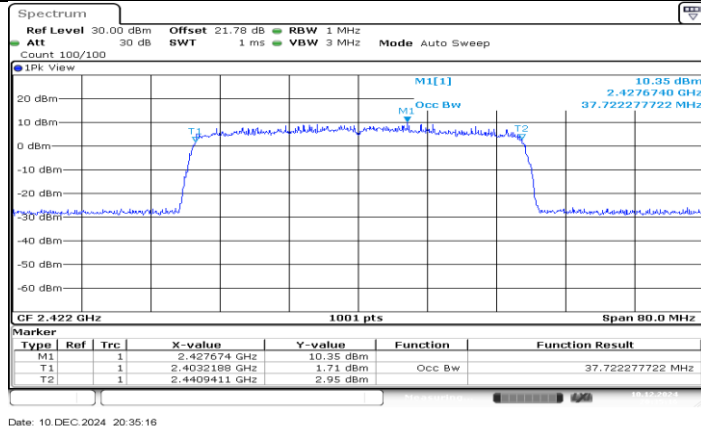
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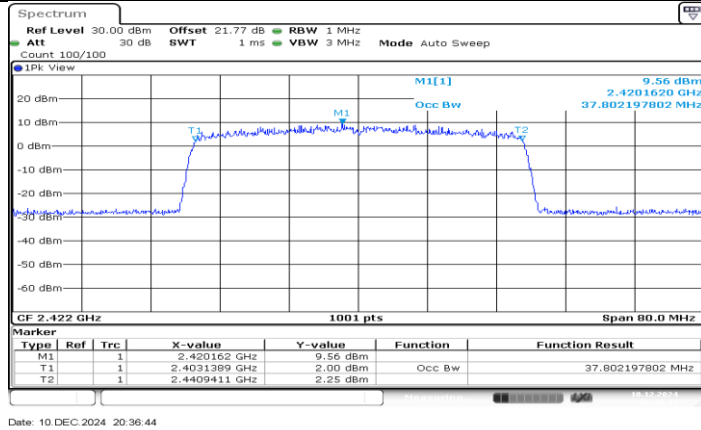
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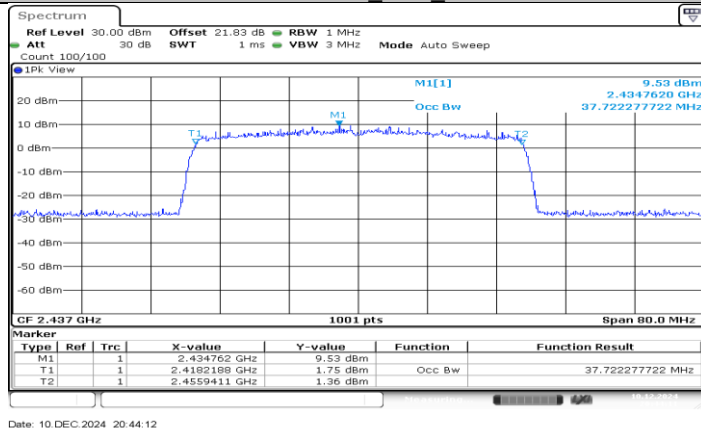
11AX20MIMO_Ant2_2462



11AX40MIMO_Ant1_2422



11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437