

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

TEST REPORT

For

WIFI+BT Module

MODEL NUMBER: WXT2NM2611

REPORT NUMBER: 4791011032-1-RF-3

ISSUE DATE: November 25, 2023

**FCC ID: 2AC23-WXT2N
IC:12290A-WXT2N**

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	November 25, 2023	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 11.9.1.3	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 11.10.2	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.

CONTENTS

1. ATTESTATION OF TEST RESULTS	6
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. MEASURING INSTRUMENT CALIBRATION	8
4.2. MEASUREMENT UNCERTAINTY	8
5. EQUIPMENT UNDER TEST	9
5.1. DESCRIPTION OF EUT	9
5.2. CHANNEL LIST	9
5.3. MAXIMUM POWER	9
5.4. TEST CHANNEL CONFIGURATION	10
5.5. THE WORSE CASE POWER SETTING PARAMETER	10
5.6. WORST-CASE CONFIGURATIONS	11
5.7. DESCRIPTION OF AVAILABLE ANTENNAS	12
5.8. SUPPORT UNITS FOR SYSTEM TEST	14
6. MEASURING EQUIPMENT AND SOFTWARE USED	15
7. ANTENNA PORT TEST RESULTS	18
7.1. CONDUCTED OUTPUT POWER	18
7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	19
7.3. POWER SPECTRAL DENSITY	21
7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	23
7.5. DUTY CYCLE	25
8. RADIATED TEST RESULTS	26
8.1. RESTRICTED BANDEDGE	34
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)	58
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)	64
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)	100
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)	103
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)	105
9. ANTENNA REQUIREMENT	107
10. AC POWER LINE CONDUCTED EMISSION	108
11. TEST DATA	112
11.1. APPENDIX A: DTS BANDWIDTH	112

11.1.1.	Test Result	112
11.1.2.	Test Graphs	113
11.2.	<i>APPENDIX B: OCCUPIED CHANNEL BANDWIDTH</i>	<i>125</i>
11.2.1.	Test Result	125
11.2.2.	Test Graphs	126
11.3.	<i>APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER</i>	<i>138</i>
11.3.1.	Test Result	138
11.4.	<i>APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY</i>	<i>139</i>
11.4.1.	Test Result	139
11.4.2.	Test Graphs	140
11.5.	<i>APPENDIX E: BAND EDGE MEASUREMENTS</i>	<i>151</i>
11.5.1.	Test Result	151
11.5.2.	Test Graphs	152
11.6.	<i>APPENDIX F: CONDUCTED SPURIOUS EMISSION</i>	<i>156</i>
11.6.1.	Test Result	156
11.6.2.	Test Graphs	157
11.7.	<i>APPENDIX G: DUTY CYCLE</i>	<i>173</i>
11.7.1.	Test Result	173
11.7.2.	Test Graphs	174

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
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Manufacturer Information

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

EUT Information

EUT Name: WIFI+BT Module
Model: WXT2NM2611
Brand: GSD
Sample Received Date: October 8, 2023
Sample Status: Normal
Sample ID: 6540727
Date of Tested: October 12, 2023 to November 25, 2023

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, R-20202, C-20153 and T-20155) 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	WXT2NM2611

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: OFDM(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 5 V

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]	15.50	18.93
g	2412 ~ 2462	1-11[11]	15.62	19.05
n HT20	2412 ~ 2462	1-11[11]	17.59	21.02
n HT40	2422 ~ 2452	3-9[7]	15.65	19.08
ax HE20	2412 ~ 2462	1-11[11]	15.79	19.22
ax HE40	2422 ~ 2452	3-9[7]	15.96	19.39

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	0	14	14	14	/		
	1	14	14	14			
802.11g	0	14	14	14			
	1	14	14	14			
802.11n HT20	0	13	14	13			
	1	13	14	13			
802.11n HT40	0	/			12	12	11
	1	/			12	12	11
802.11ax HE20	0	13	13	13	/		
	1	13	13	13			
802.11ax HE40	0	/			13	13	13
	1	/			13	13	13

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 0 and Antenna 1 has the same power setting, and we have pre-tested for two antennas, only the worst 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 0 and Core 1 correspond to antenna 0 and antenna 1 respectively.

802.11ax HE20/HE40 only support Full Ru Mode.

The device only supports full RU allocation in OFDM-A mode (802.11ax). Based on preliminary testing and given that output power specifications are identical across OFDM and OFDM-A modes, it was determined that 802.11ax represented the worst case across 802.11g/n/ax and 802.11a.n.ac.ax modes in the 2,4 GHz and 5GHz bands 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)
0	2412-2462	PCB Antenna	3.43
1	2412-2462	PCB Antenna	3.40

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= $G_{ANT} + \text{Array Gain} = 3.43 \text{ dBi}$

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= $G_{ANT} + \text{Array Gain} = 6.44 \text{ dBi}$

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

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 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.

Note:

1.BT&WLAN 2.4G, BT & WLAN 5G, BT & WLAN 6G, WLAN 2.4G & WLAN 5G, WLAN 2.4G & WLAN 6G, WLAN 5G & WLAN 6G, 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	E42-80	/
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	/

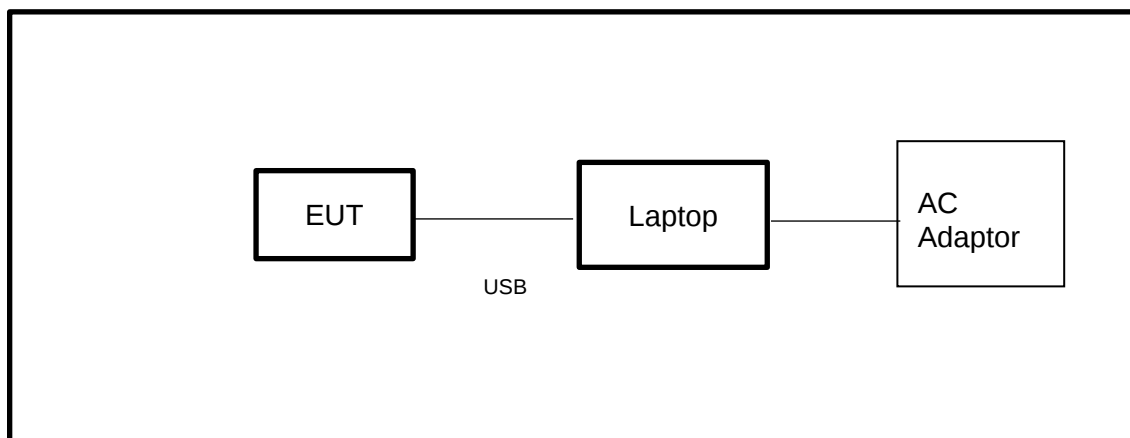
ACCESSORIES

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.31,2023	Mar.30,2024
Vector Signal Generator	R&S	SMBV100A	261637	Oct.12, 2023	Oct.11, 2024
Signal Generator	R&S	SMB100A	178553	Oct.12, 2023	Oct.11, 2024
Signal Analyzer	R&S	FSV40	101118	Oct.12, 2023	Oct.11, 2024
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
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.25, 2023	Sep.24, 2024
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.12, 2023	Oct.11, 2024
DC power supply	Keysight	E3642A	MY55159130	Oct.12, 2023	Oct.11, 2024
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.12, 2023	Oct.11, 2024
Attenuator	Aglient	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024
RF Control Unit	Tonscend	JS0806-2	23B80620666	April 18, 2023	April 17, 2024
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	Oct.13, 2023	Oct.12, 2024
Two-Line V-Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024
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	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Highpass Filter	Wainwright	WHKX10-5850-6500-1800-40SS	4	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV12-5695-5725-5850-5880-40SS	4	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV20-5120-5150-5350-5380-60SS	2	Oct.12, 2023	Oct.11, 2024

Band Reject Filter	Wainwright	WRCJV20-5440-5470-5725-5755-60SS	1	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCD5-1879-1879.85-1880.15-1881-40SS	1	Oct.12, 2023	Oct.11, 2024
Notch Filter	Wainwright	WHJ10-882-980-7000-40SS	1	Oct.12, 2023	Oct.11, 2024
Highpass Filter	Xingbo	XBLBQ-GTA68	211115-2-1	Oct.12, 2023	Oct.11, 2024
Notch Filter (5905-6445 MHz)	Xingbo	XBLBQ-DZA175	210922-2-1	Oct.12, 2023	Oct.11, 2024
Notch Filter (6425-6525 MHz)	Xingbo	XBLBQ-DZA176	210922-2-2	Oct.12, 2023	Oct.11, 2024
Notch Filter (6825-7125 MHz)	Xingbo	XBLBQ-DZA177	210922-2-3	Oct.12, 2023	Oct.11, 2024
Notch Filter (6525-6875 MHz)	Xingbo	XBLBQ-DZA178	210922-2-4	Oct.12, 2023	Oct.11, 2024
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.21, 2023	Oct.20, 2024
Barometer	Yiyi	Baro	N/A	Oct.19, 2023	Oct.18, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024

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

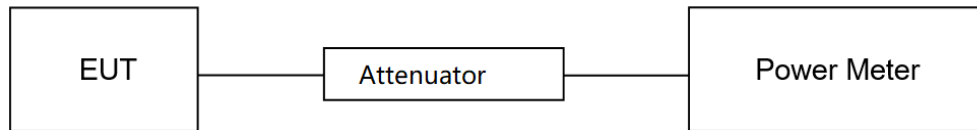
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	25.6°C	Relative Humidity	61.3%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	October 25, 2023	Test By	Walker Yuan
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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.

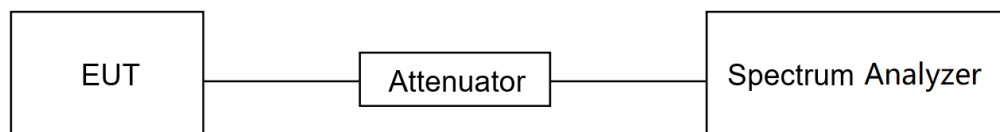
Connect the EUT to the spectrum analyzer and use the following settings:

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	25.6°C	Relative Humidity	61.3%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	October 25, 2023	Test By	Walker Yuan
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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.

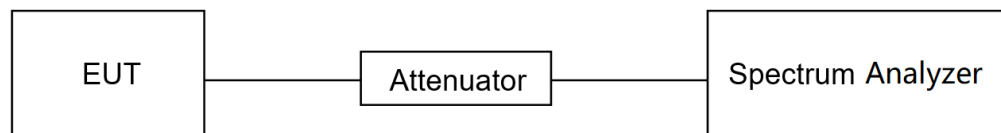
Connect the EUT to the spectrum analyzer and use the following settings:

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	25.6°C	Relative Humidity	61.3%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	October 25, 2023	Test By	Walker Yuan
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 3		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

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

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

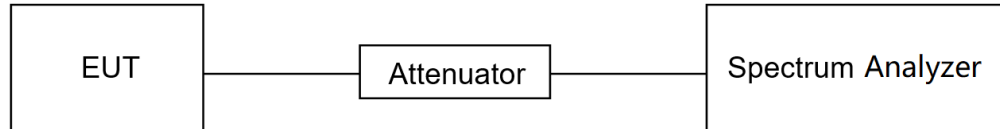
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

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	25.6°C	Relative Humidity	61.3%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	October 25, 2023	Test By	Walker Yuan
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TEST RESULTS

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

7.5. DUTY CYCLE

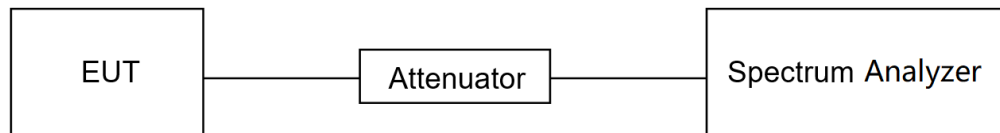
LIMITS

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	25.6°C	Relative Humidity	61.3%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	October 25, 2023	Test By	Walker Yuan
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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 ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dB $\mu\text{V/m}$) 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	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	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) ($\mu\text{A/m}$)	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 - 14.5
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.

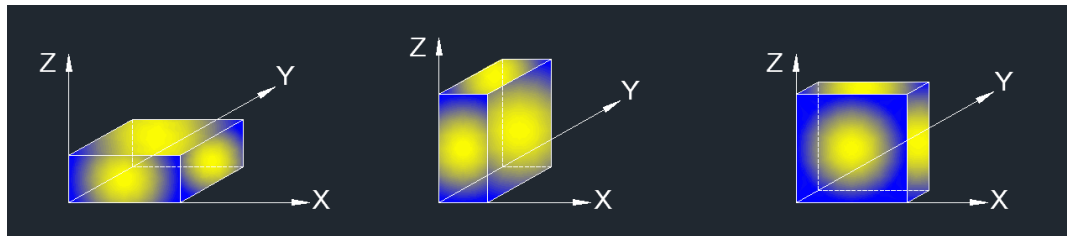
Above 1 GHz

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:

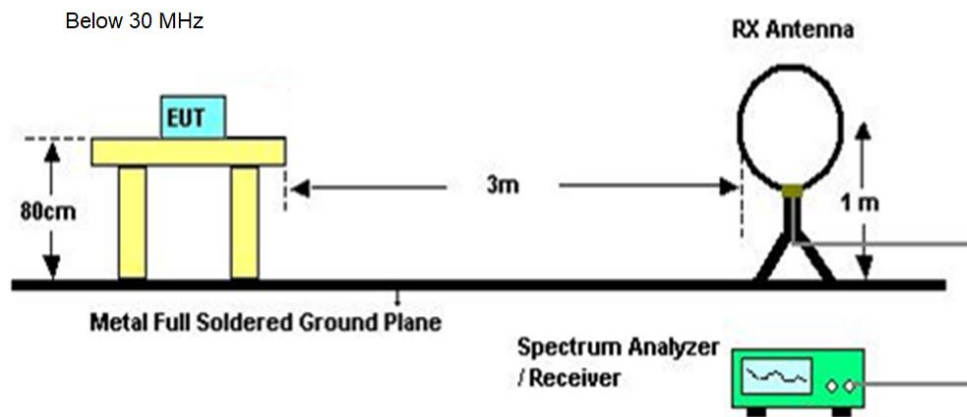
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please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

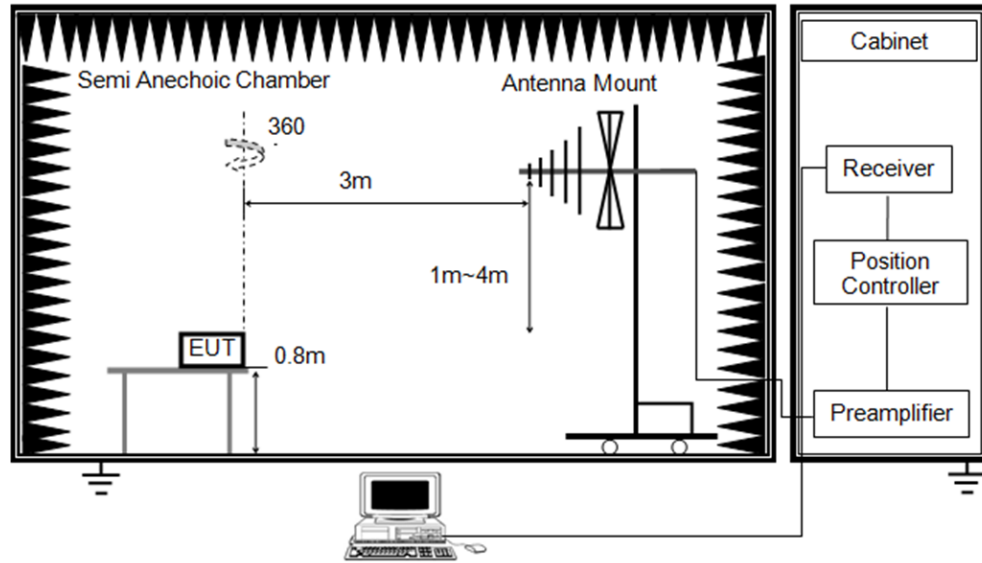
Note:

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.

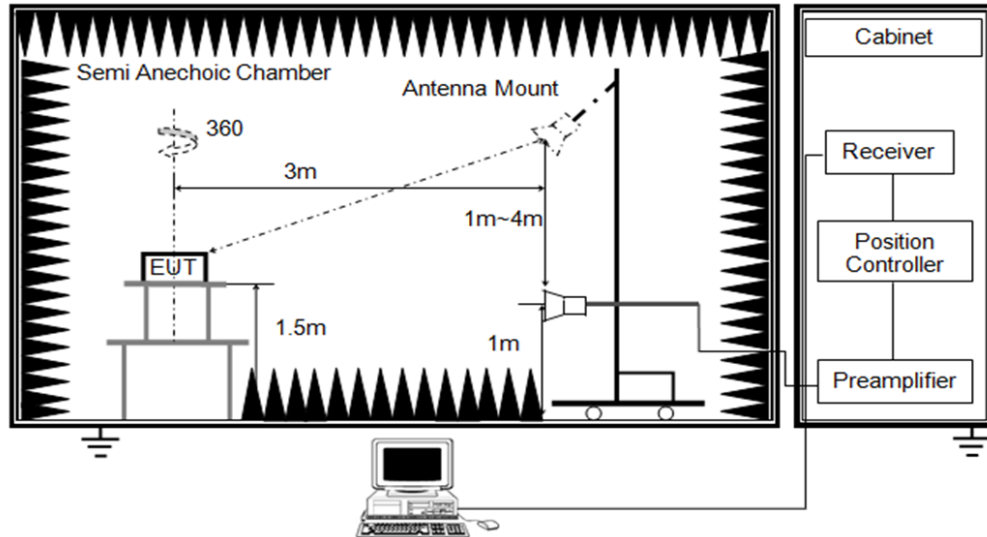
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	25.1°C	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

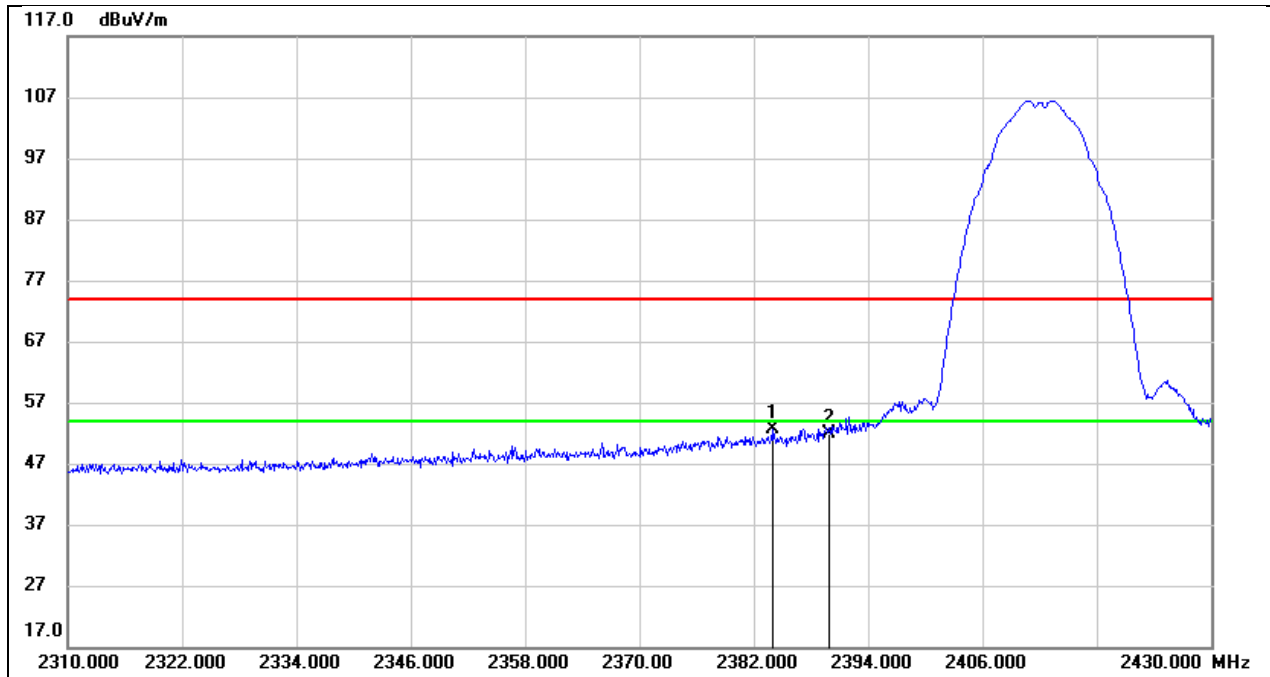
TEST DATE / ENGINEER

Test Date	November 22, 2023	Test By	Rex Huang
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TEST RESULTS

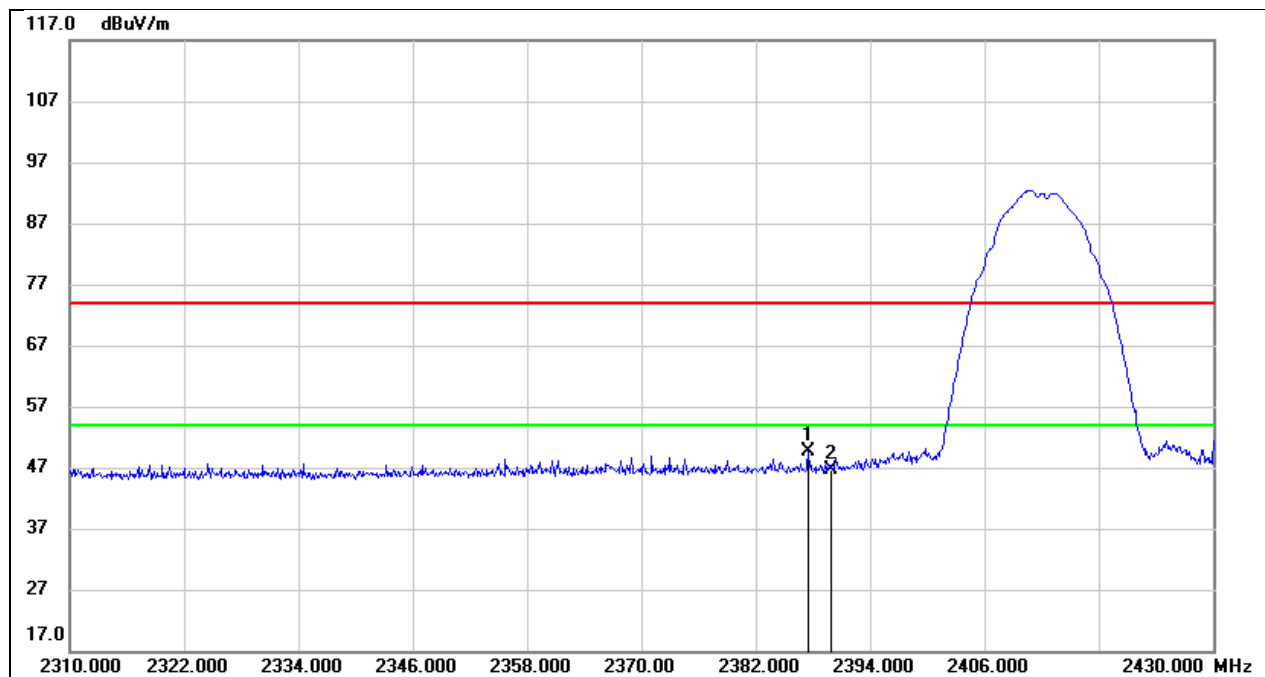
8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



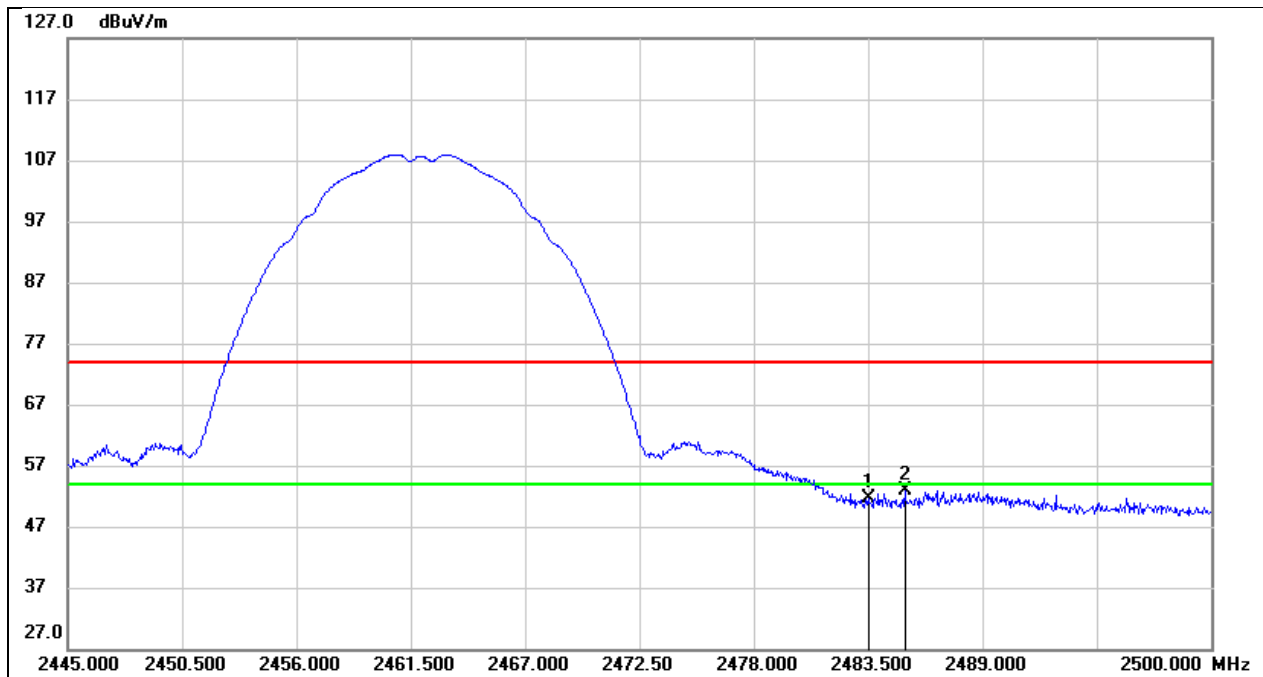
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.920	20.41	32.14	52.55	74.00	-21.45	peak
2	2390.000	19.81	32.16	51.97	74.00	-22.03	peak

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



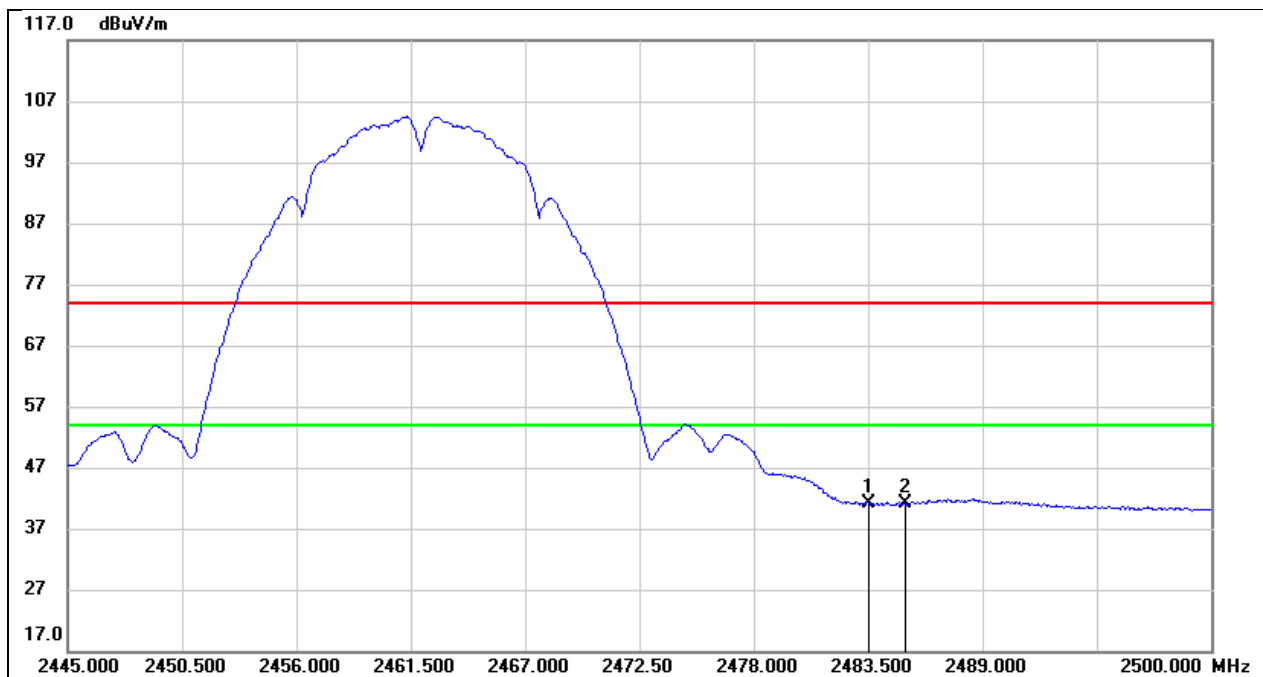
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2387.520	17.47	32.16	49.63	74.00	-24.37	peak
2	2390.000	14.53	32.16	46.69	74.00	-27.31	peak

Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



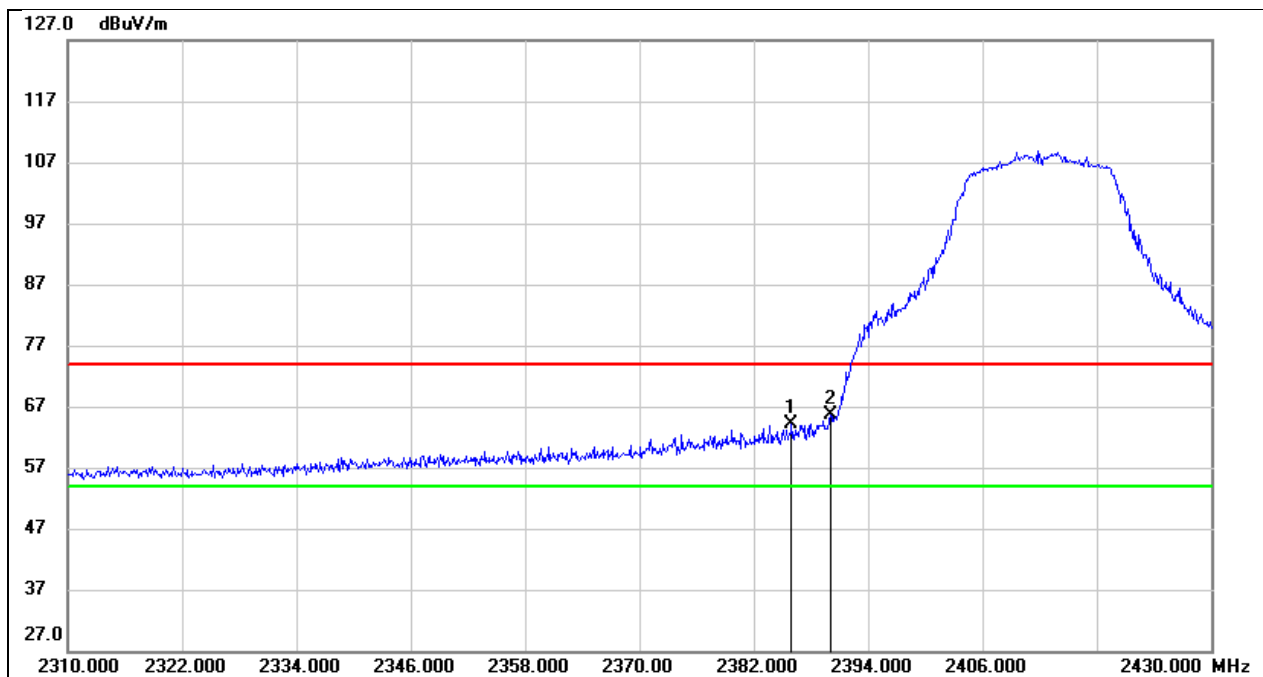
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.25	32.44	51.69	74.00	-22.31	peak
2	2485.260	20.51	32.44	52.95	74.00	-21.05	peak

Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



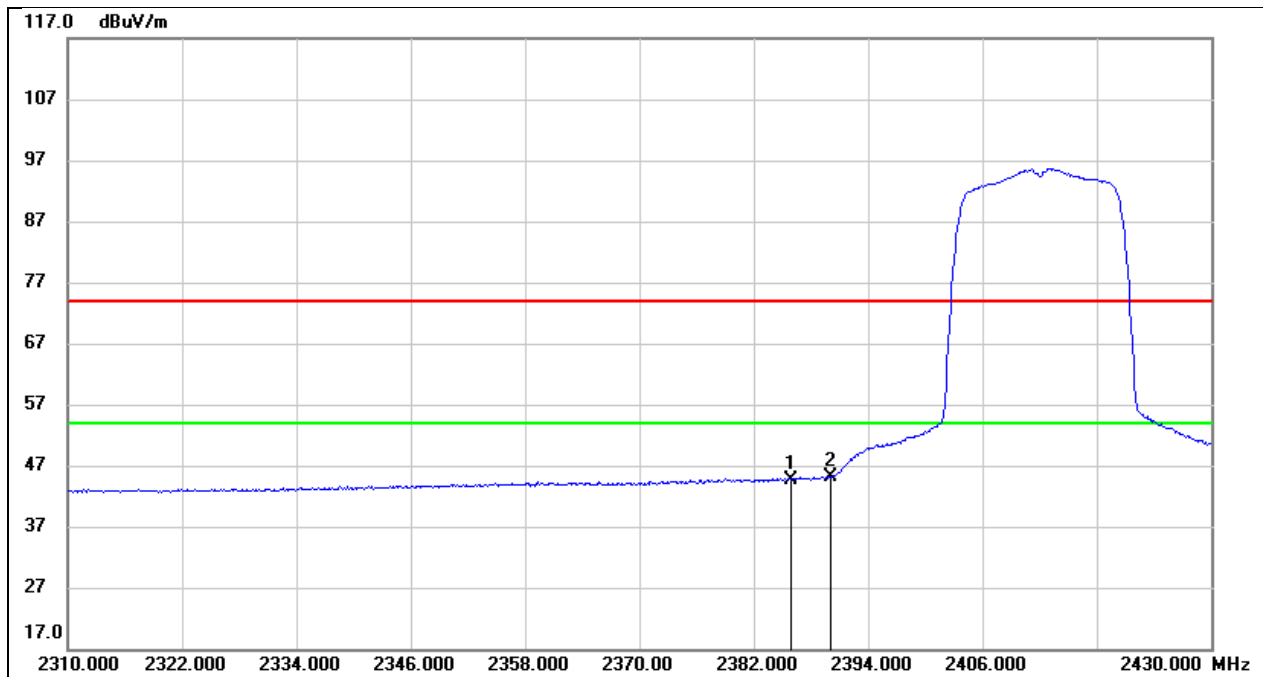
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	8.71	32.44	41.15	54.00	-12.85	AVG
2	2485.260	8.73	32.44	41.17	54.00	-12.83	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



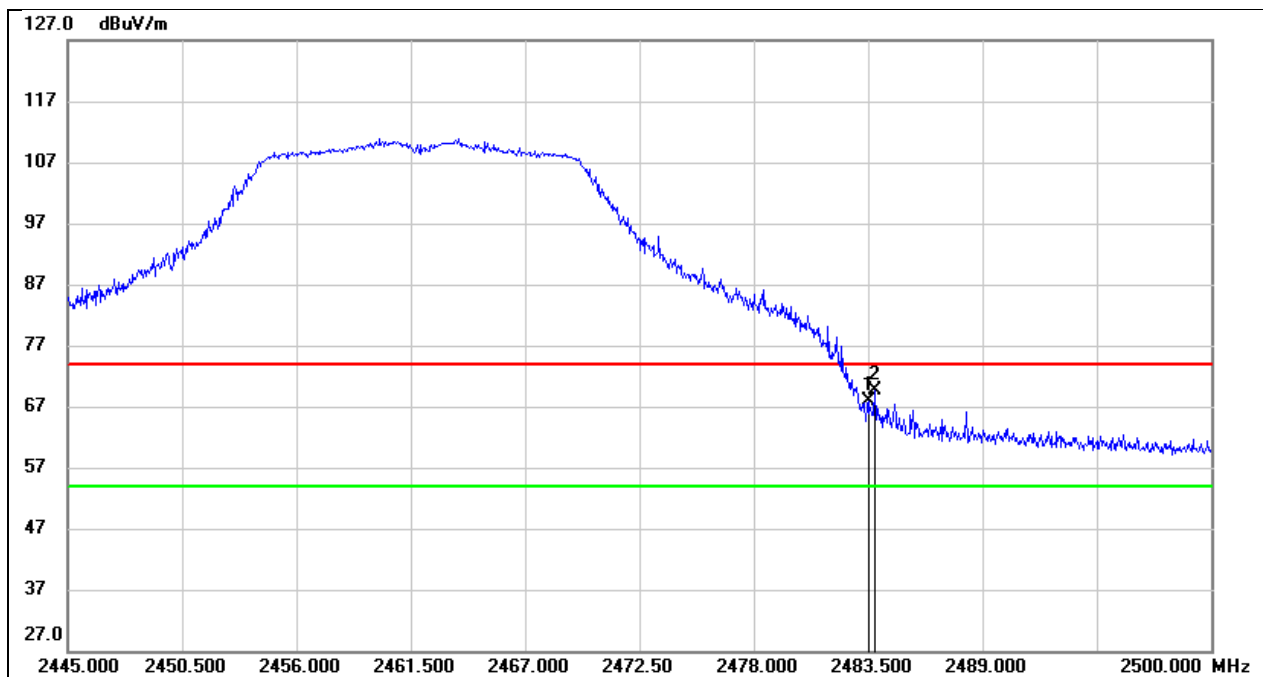
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.960	31.89	32.14	64.03	74.00	-9.97	peak
2	2390.000	33.40	32.16	65.56	74.00	-8.44	peak

Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



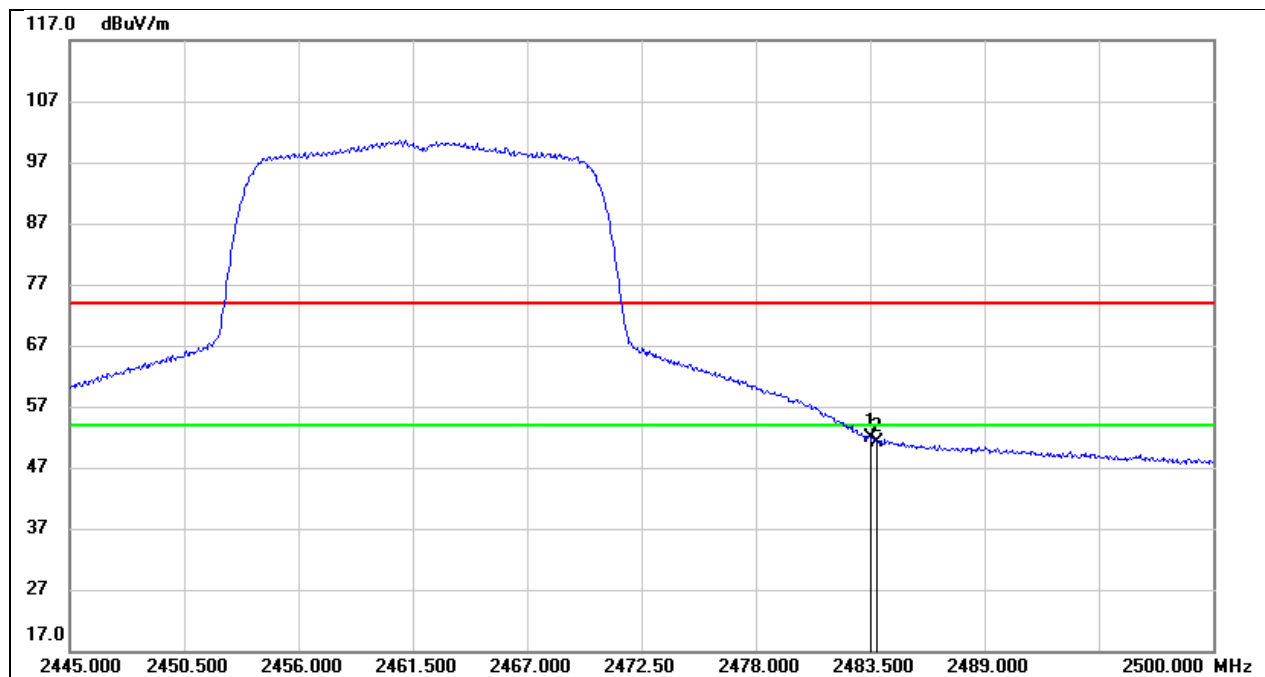
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2385.960	12.56	32.14	44.70	54.00	-9.30	AVG
2	2390.000	12.96	32.16	45.12	54.00	-8.88	AVG

Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



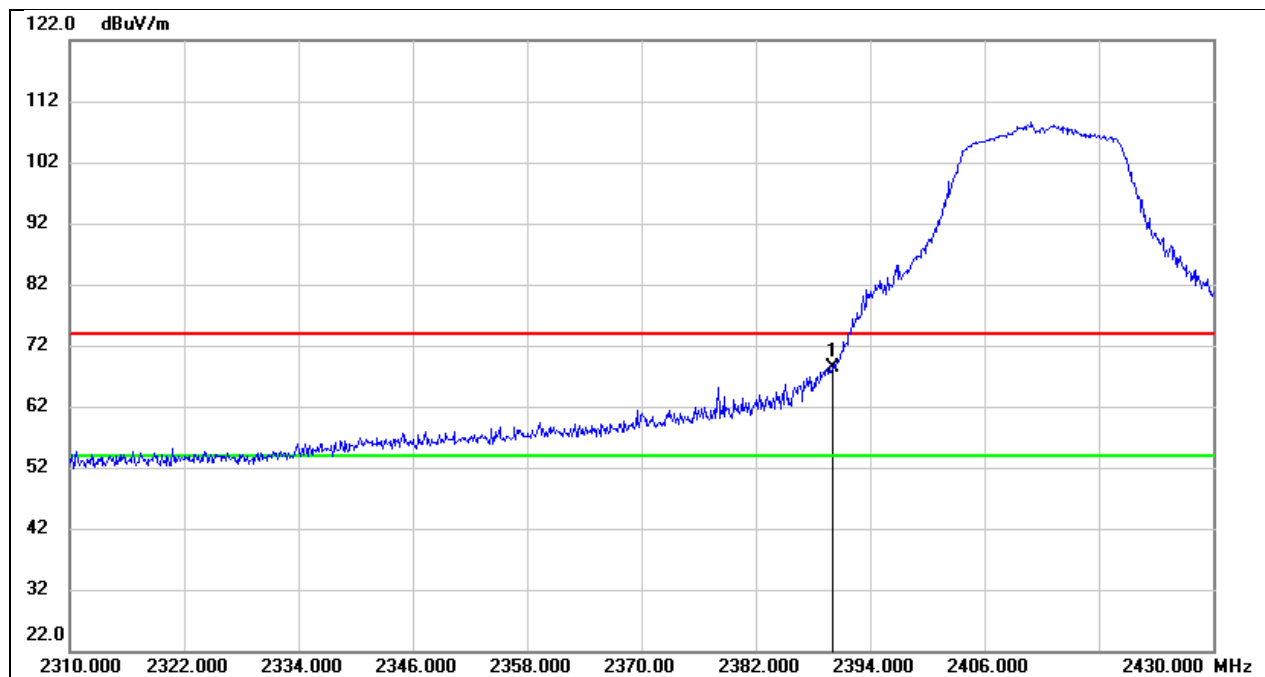
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.43	32.44	67.87	74.00	-6.13	peak
2	2483.830	37.18	32.44	69.62	74.00	-4.38	peak

Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



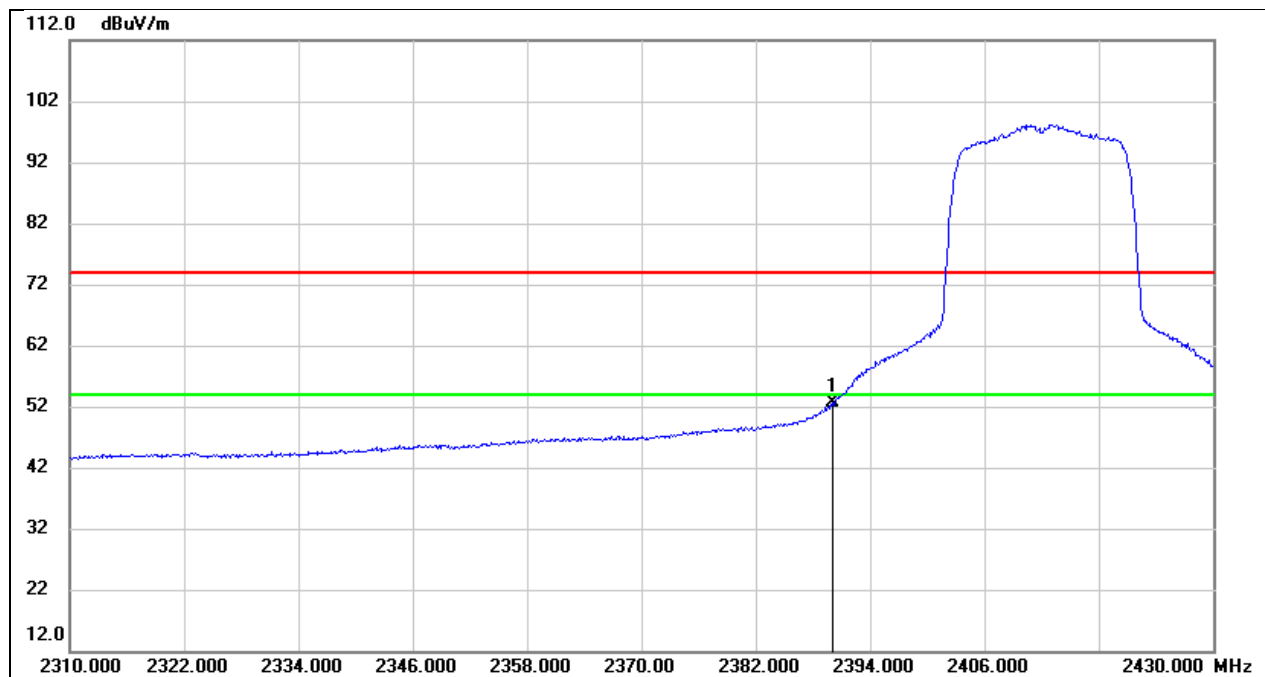
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.34	32.44	51.78	54.00	-2.22	AVG
2	2483.830	18.81	32.44	51.25	54.00	-2.75	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



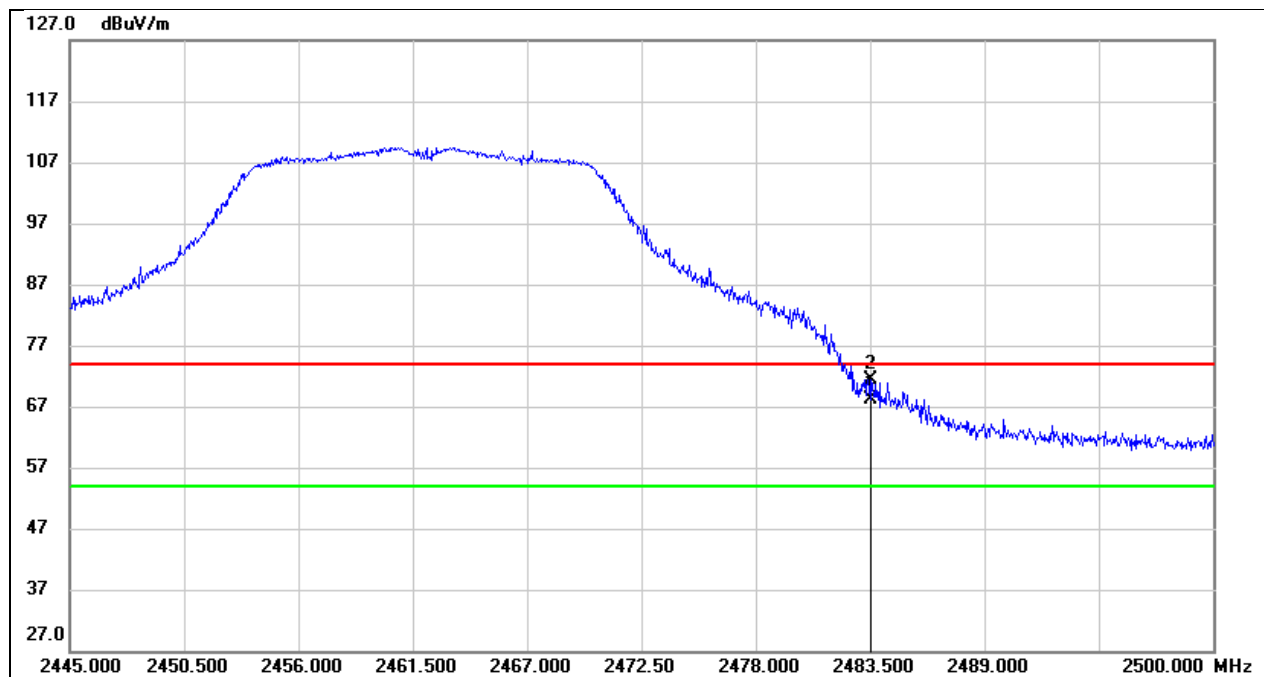
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	36.19	32.16	68.35	74.00	-5.65	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



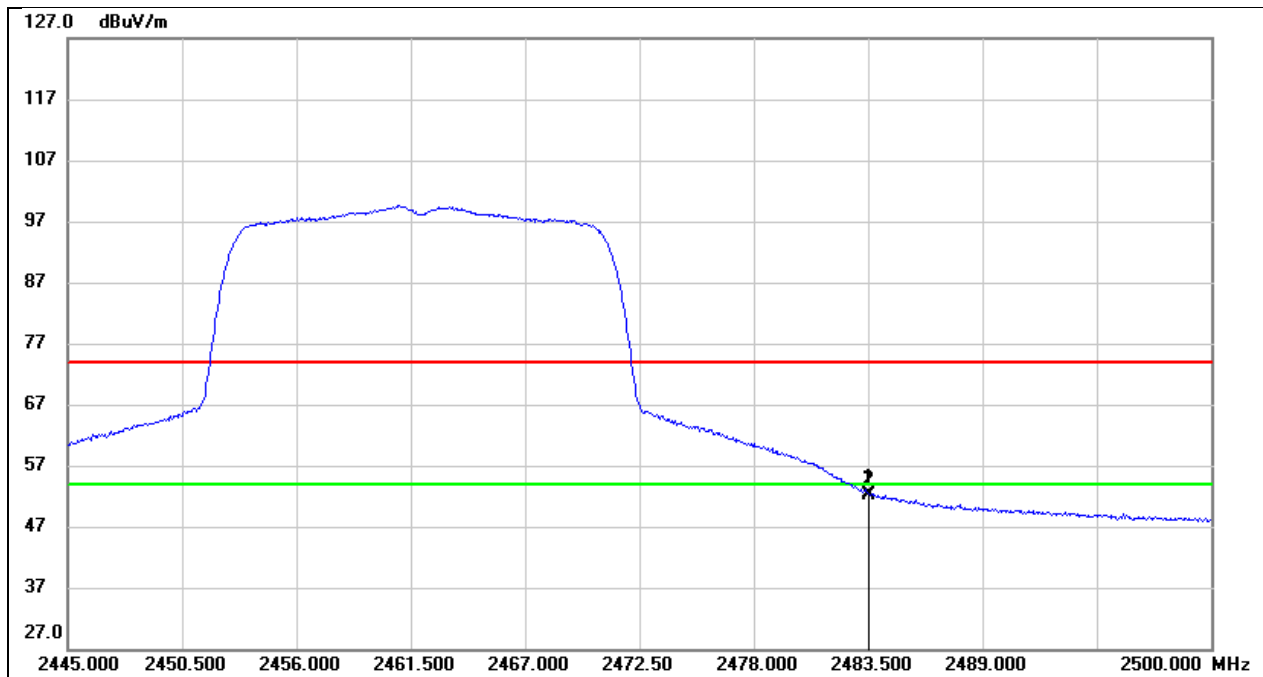
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.000	20.37	32.16	52.53	54.00	-1.47	AVG

Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



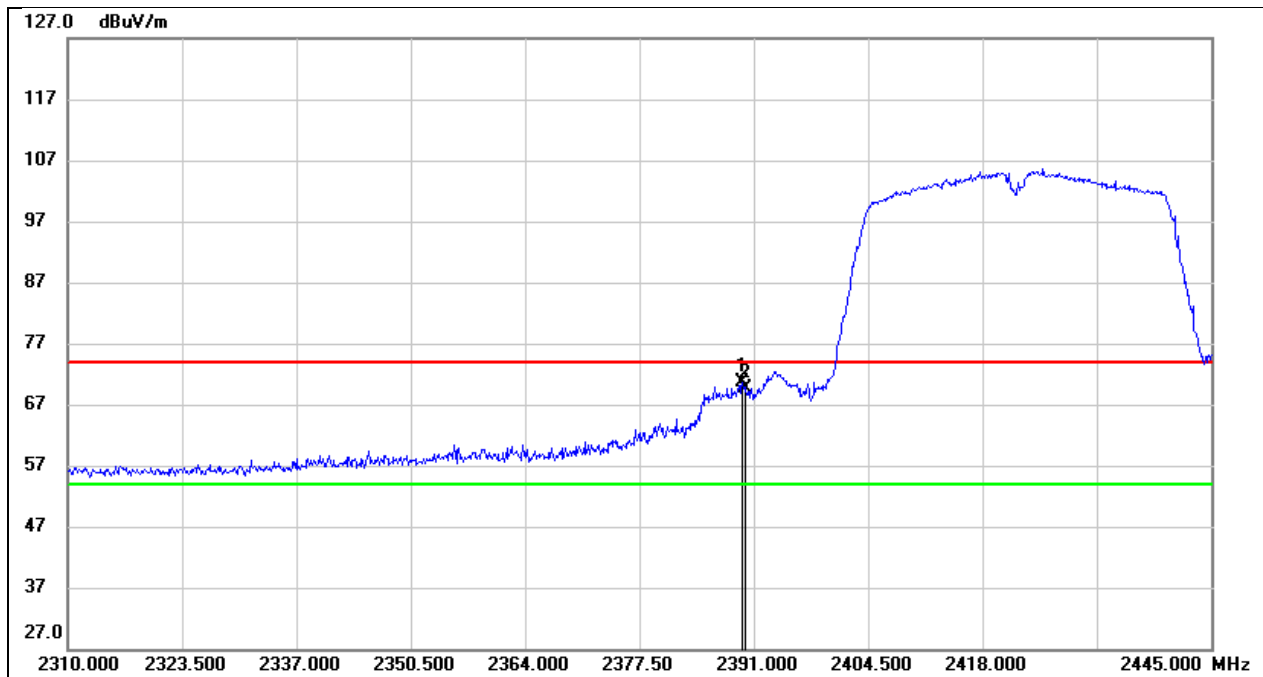
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	35.76	32.44	68.20	74.00	-5.80	peak
2	2483.555	38.96	32.44	71.40	74.00	-2.60	peak

Test Mode:	802.11n HT20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



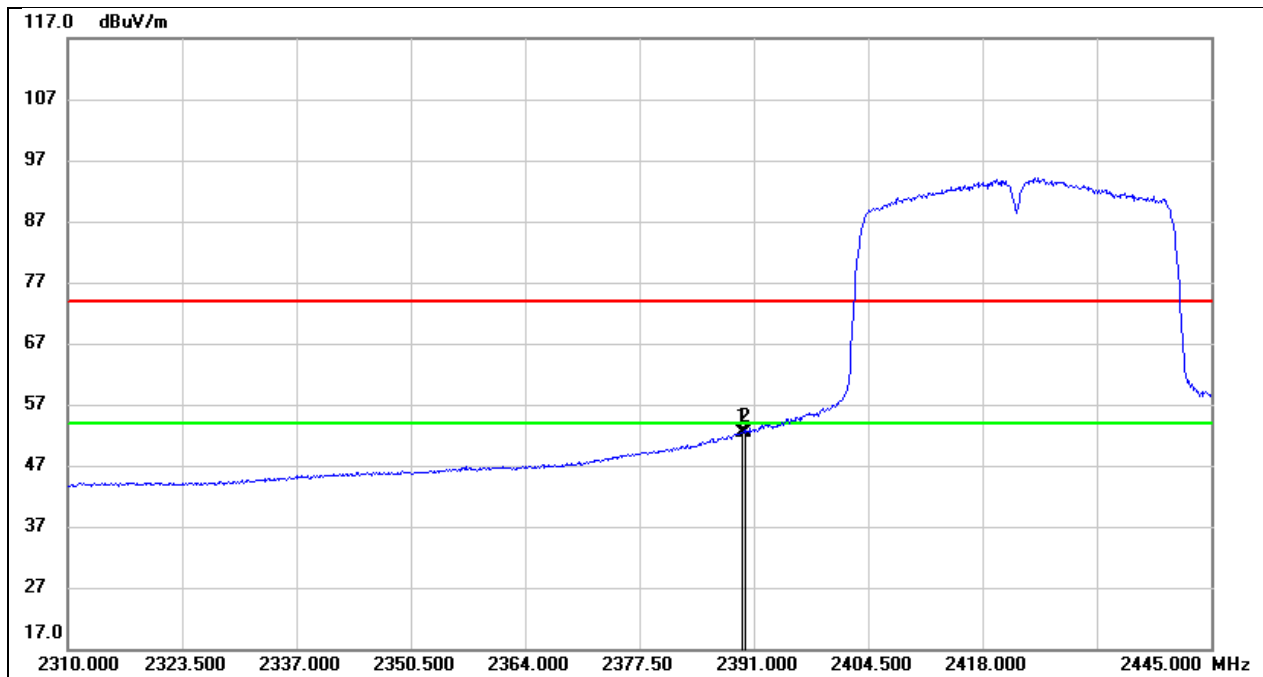
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	19.90	32.44	52.34	54.00	-1.66	AVG
2	2483.555	19.74	32.44	52.18	54.00	-1.82	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



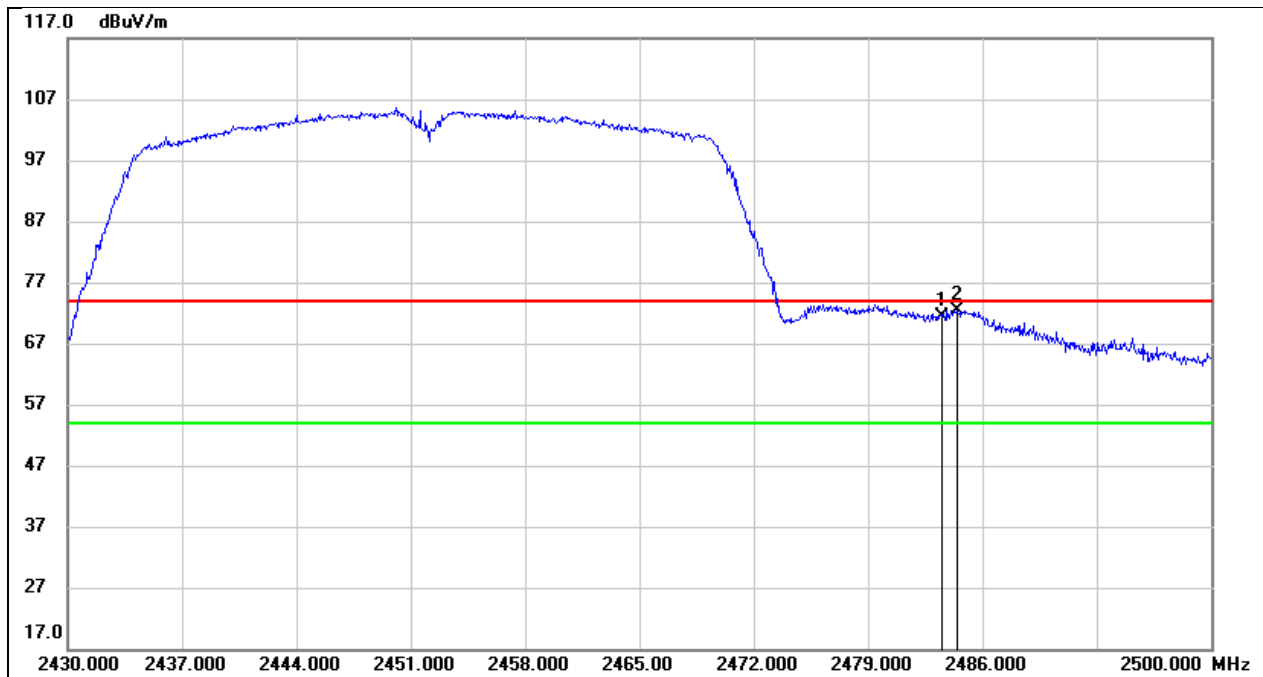
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.650	38.53	32.16	70.69	74.00	-3.31	peak
2	2390.000	37.46	32.16	69.62	74.00	-4.38	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



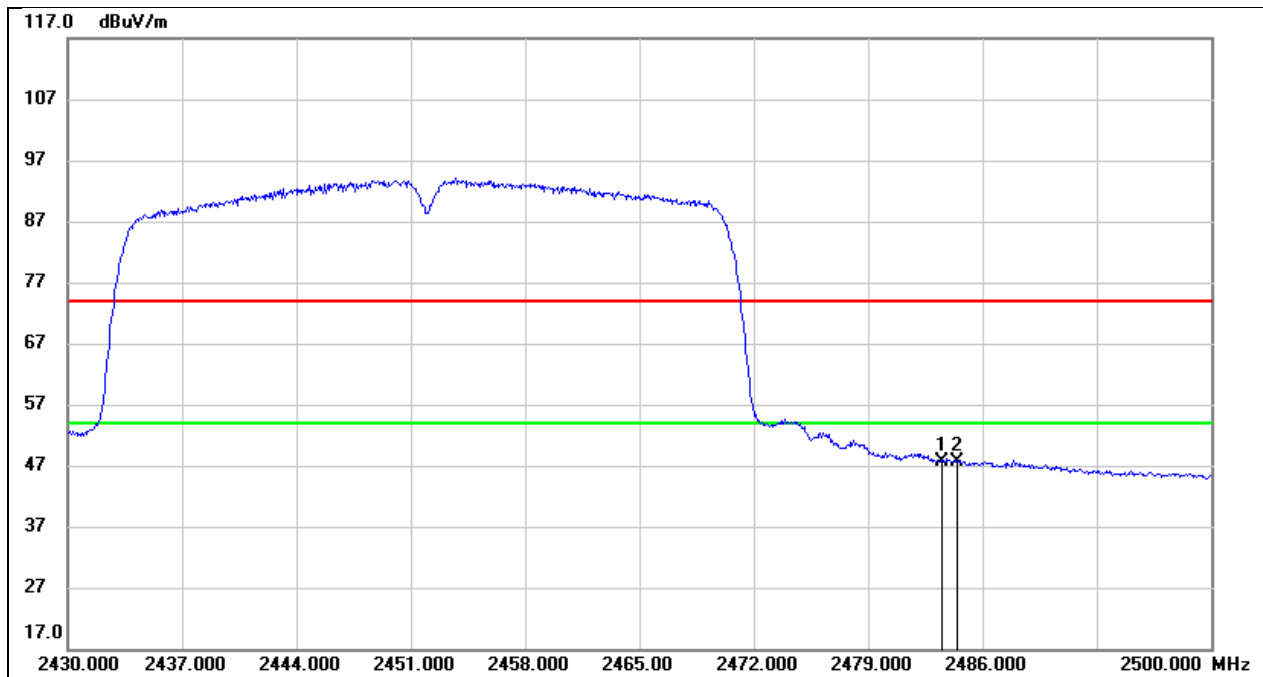
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.650	20.17	32.16	52.33	54.00	-1.67	AVG
2	2390.000	20.29	32.16	52.45	54.00	-1.55	AVG

Test Mode:	802.11n HT40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



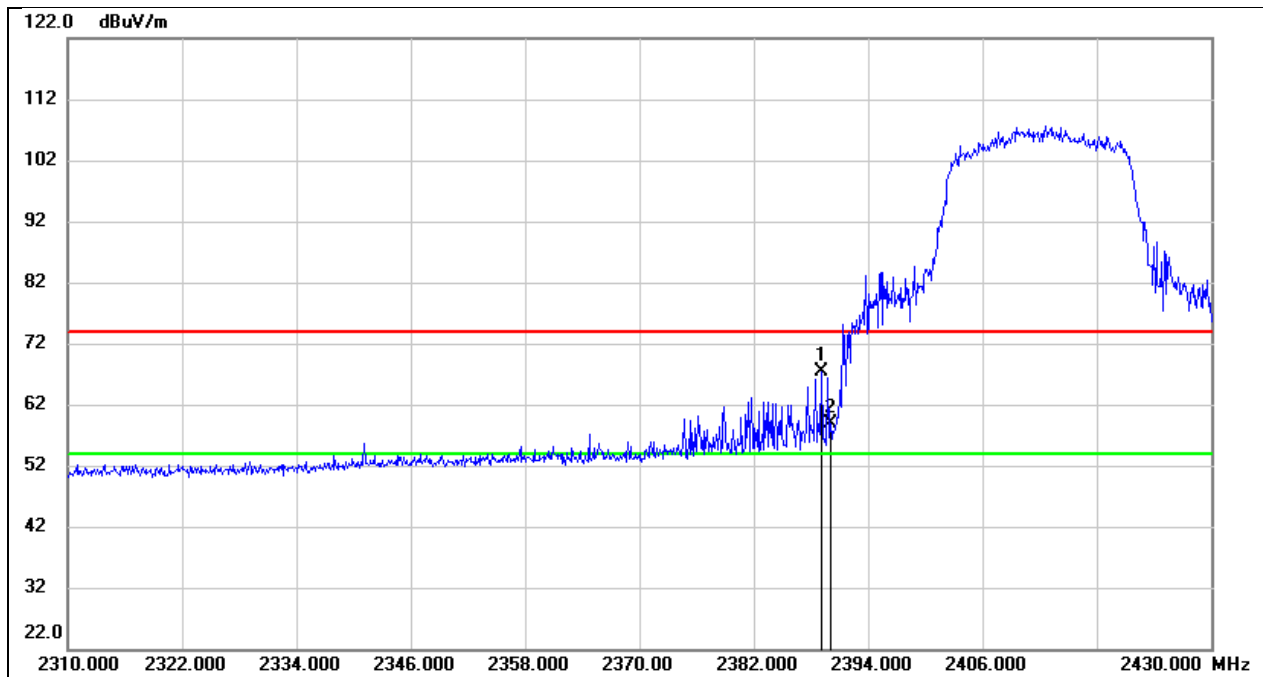
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	38.84	32.44	71.28	74.00	-2.72	peak
2	2484.460	40.04	32.44	72.48	74.00	-1.52	peak

Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



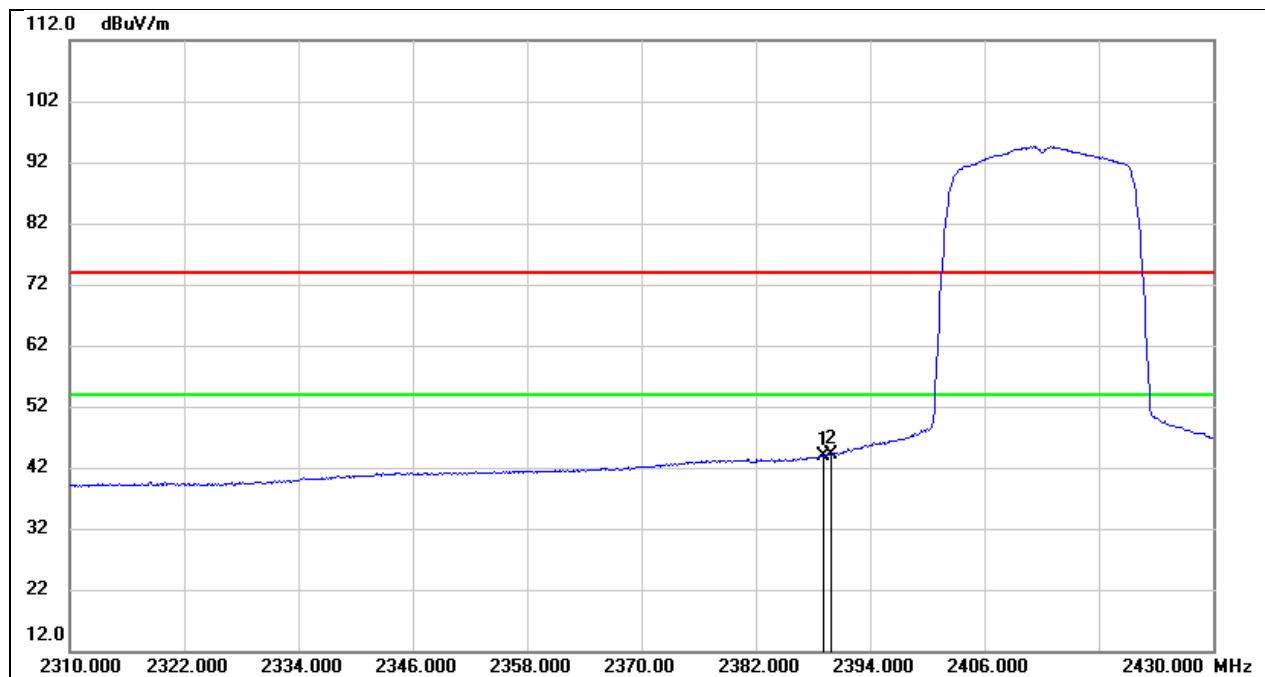
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.27	32.44	47.71	54.00	-6.29	AVG
2	2484.460	15.25	32.44	47.69	54.00	-6.31	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



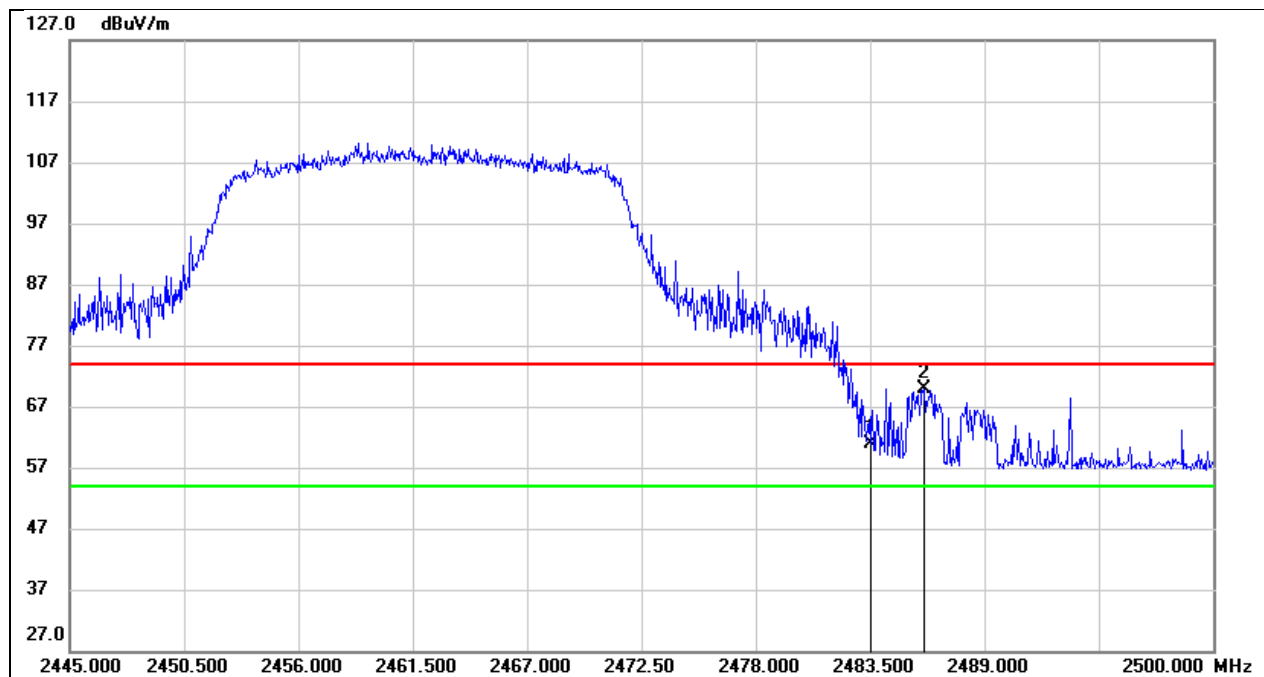
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.080	35.25	32.16	67.41	74.00	-6.59	peak
2	2390.000	26.70	32.16	58.86	74.00	-15.14	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



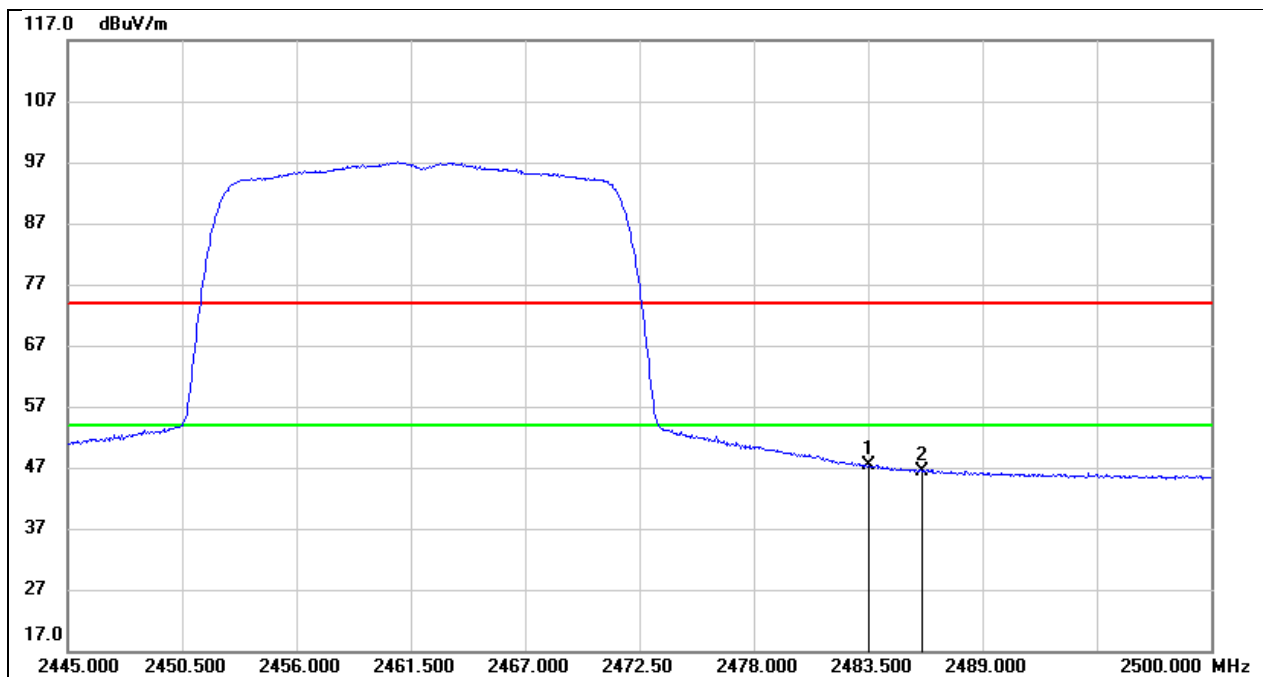
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.080	11.63	32.16	43.79	54.00	-10.21	AVG
2	2390.000	11.97	32.16	44.13	54.00	-9.87	AVG

Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



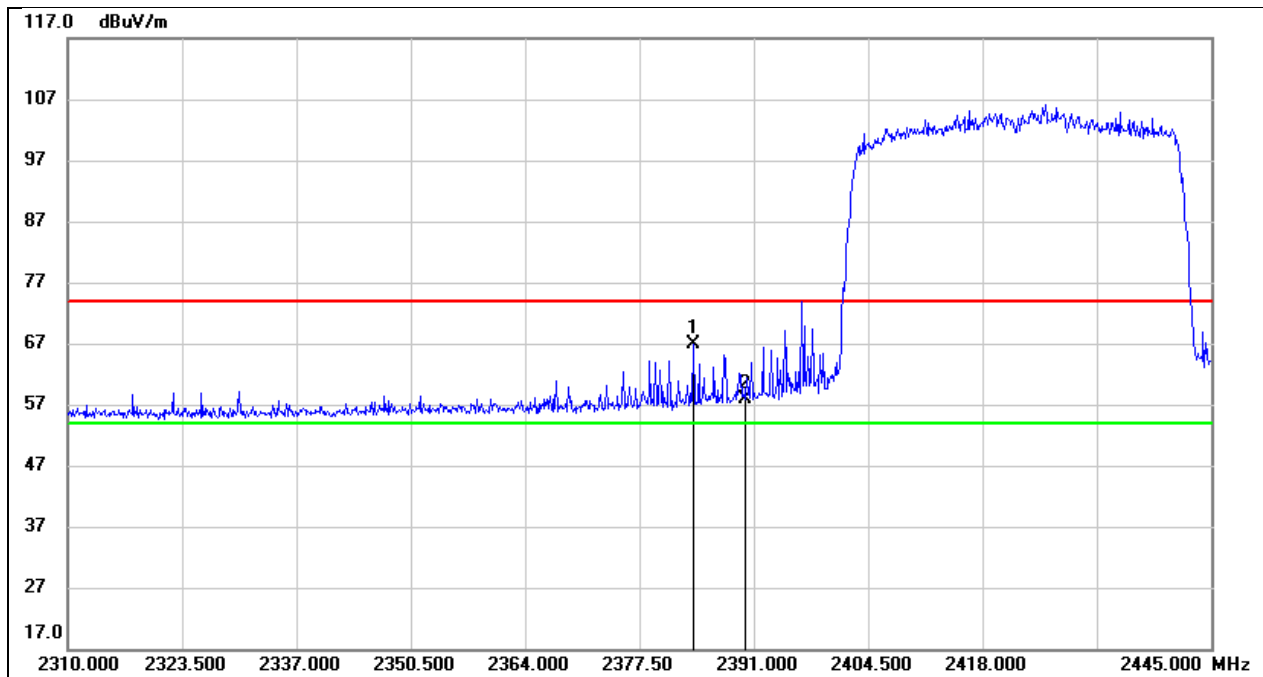
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	28.38	32.44	60.82	74.00	-13.18	peak
2	2486.085	37.50	32.44	69.94	74.00	-4.06	peak

Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



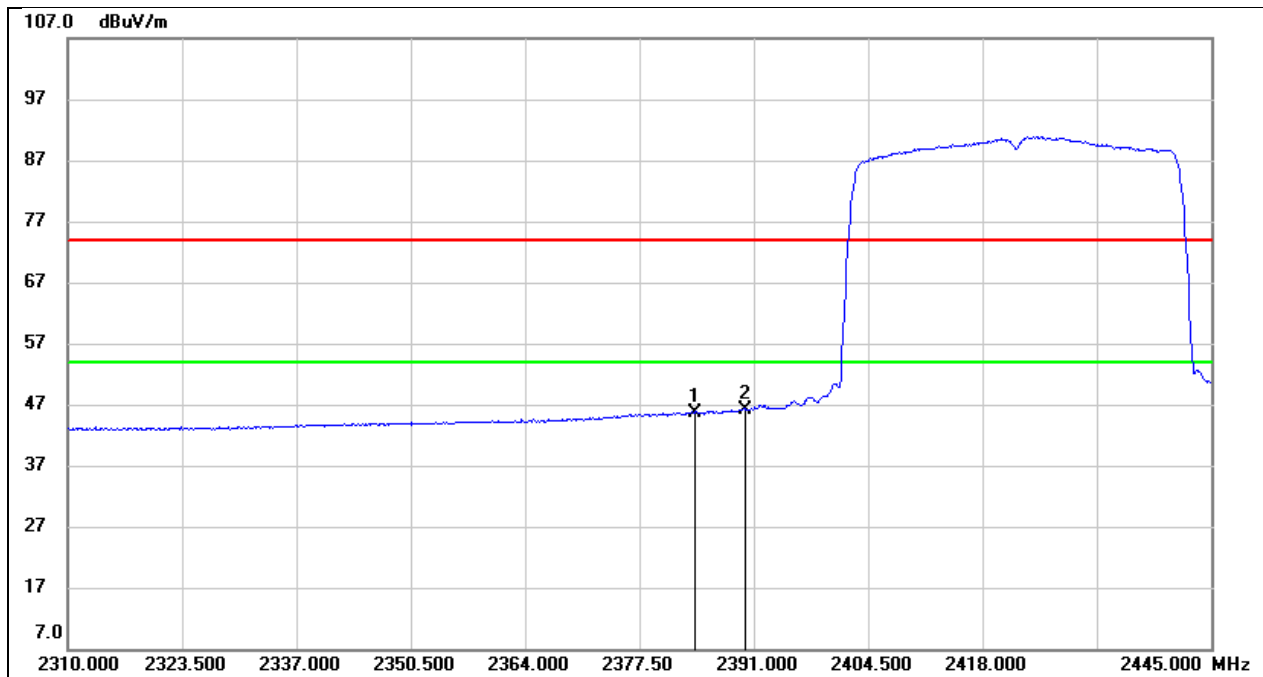
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.94	32.44	47.38	54.00	-6.62	AVG
2	2486.085	13.95	32.44	46.39	54.00	-7.61	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



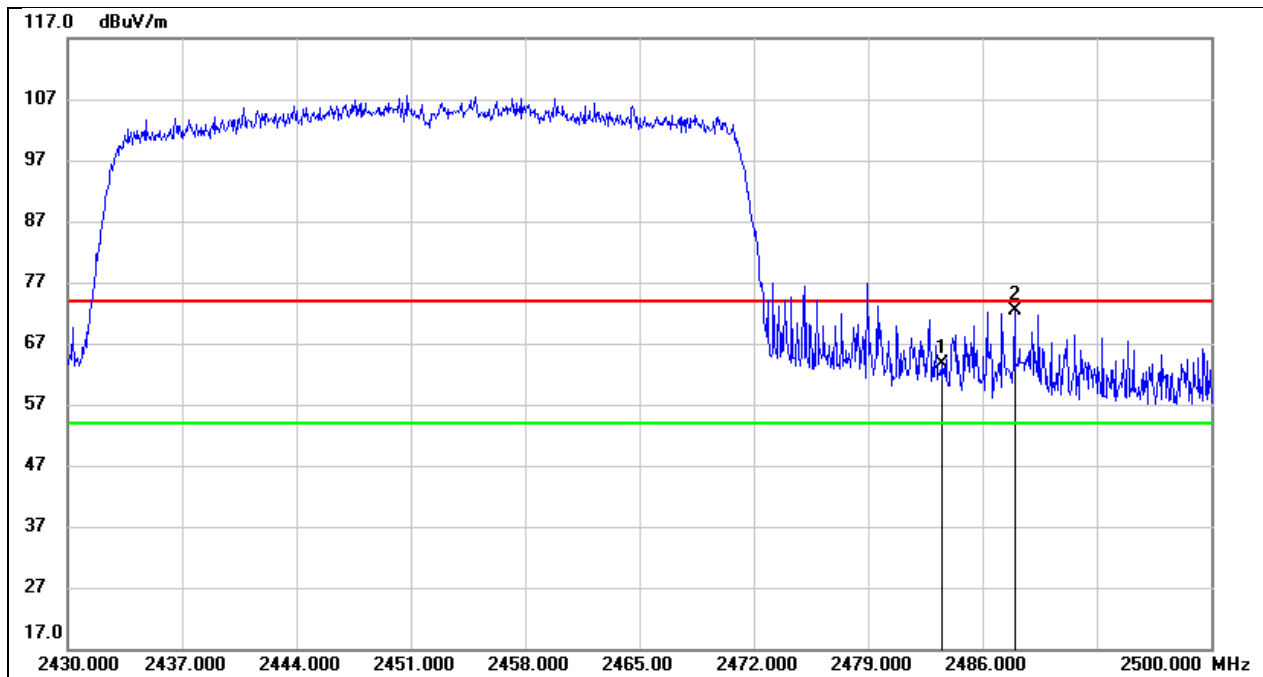
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.845	34.74	32.14	66.88	74.00	-7.12	peak
2	2390.000	25.67	32.16	57.83	74.00	-16.17	peak

Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



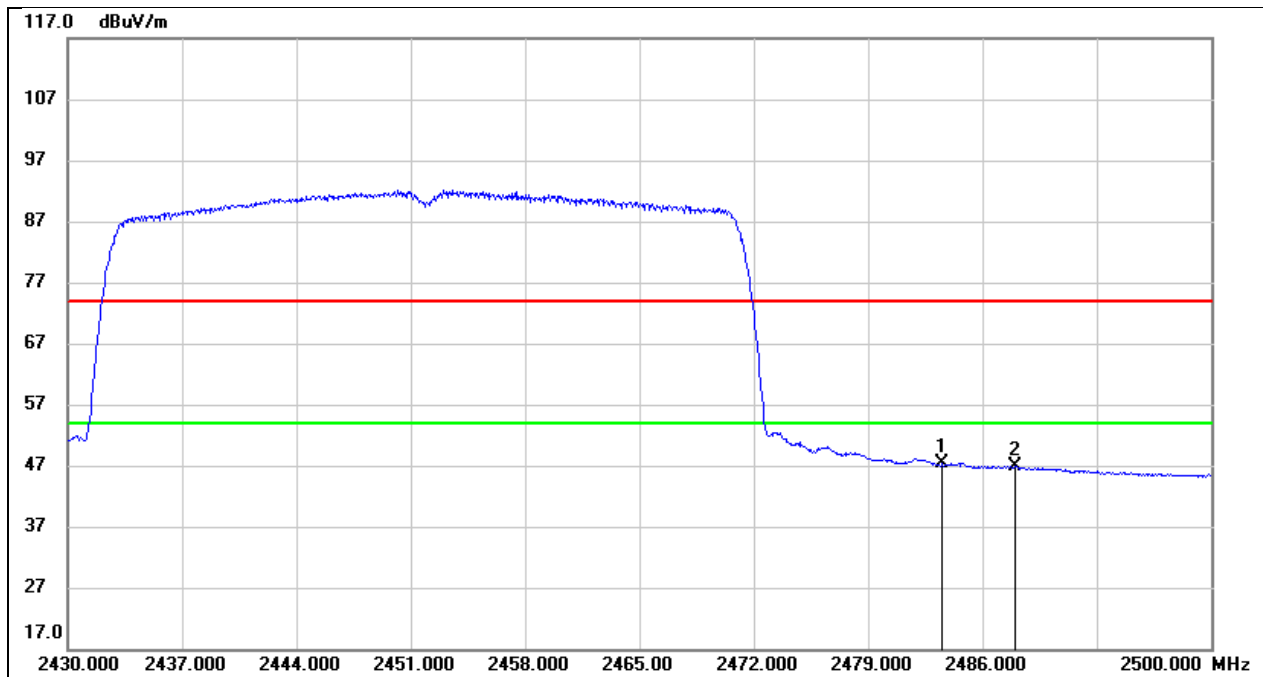
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2383.845	13.54	32.14	45.68	54.00	-8.32	AVG
2	2390.000	13.96	32.16	46.12	54.00	-7.88	AVG

Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	31.30	32.44	63.74	74.00	-10.26	peak
2	2487.960	39.94	32.46	72.40	74.00	-1.60	peak

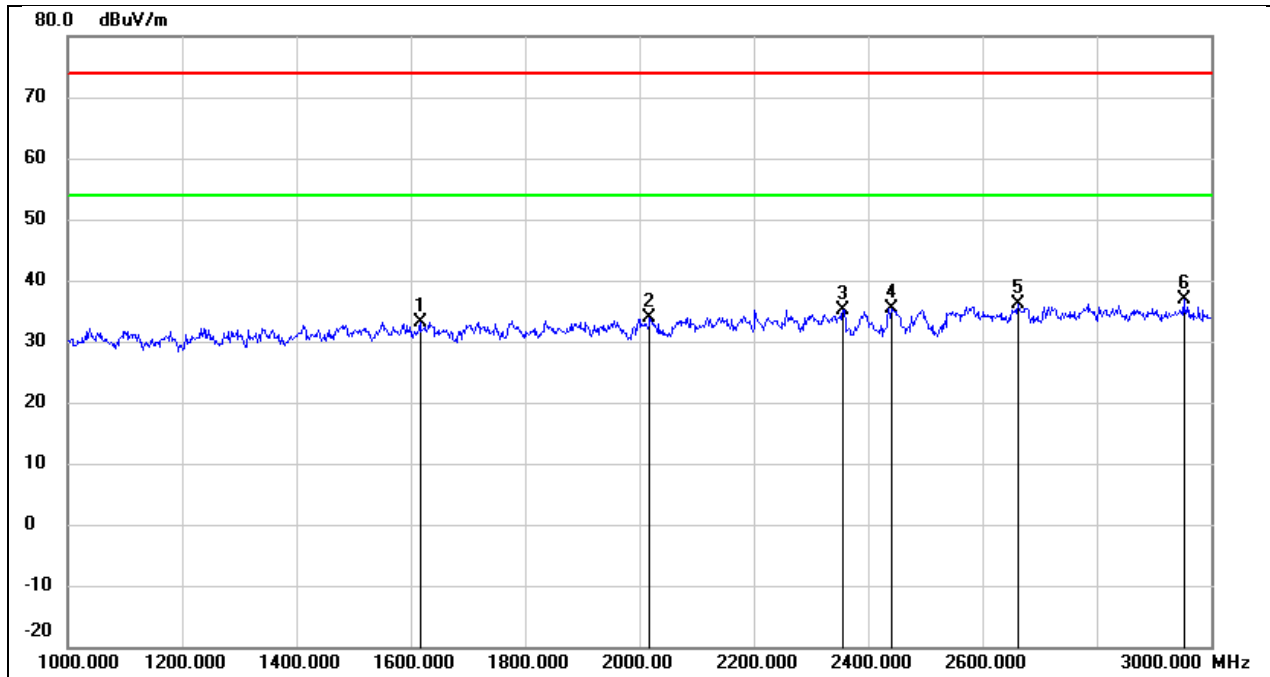
Test Mode:	802.11ax HE40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	14.83	32.44	47.27	54.00	-6.73	AVG
2	2487.960	14.37	32.46	46.83	54.00	-7.17	AVG

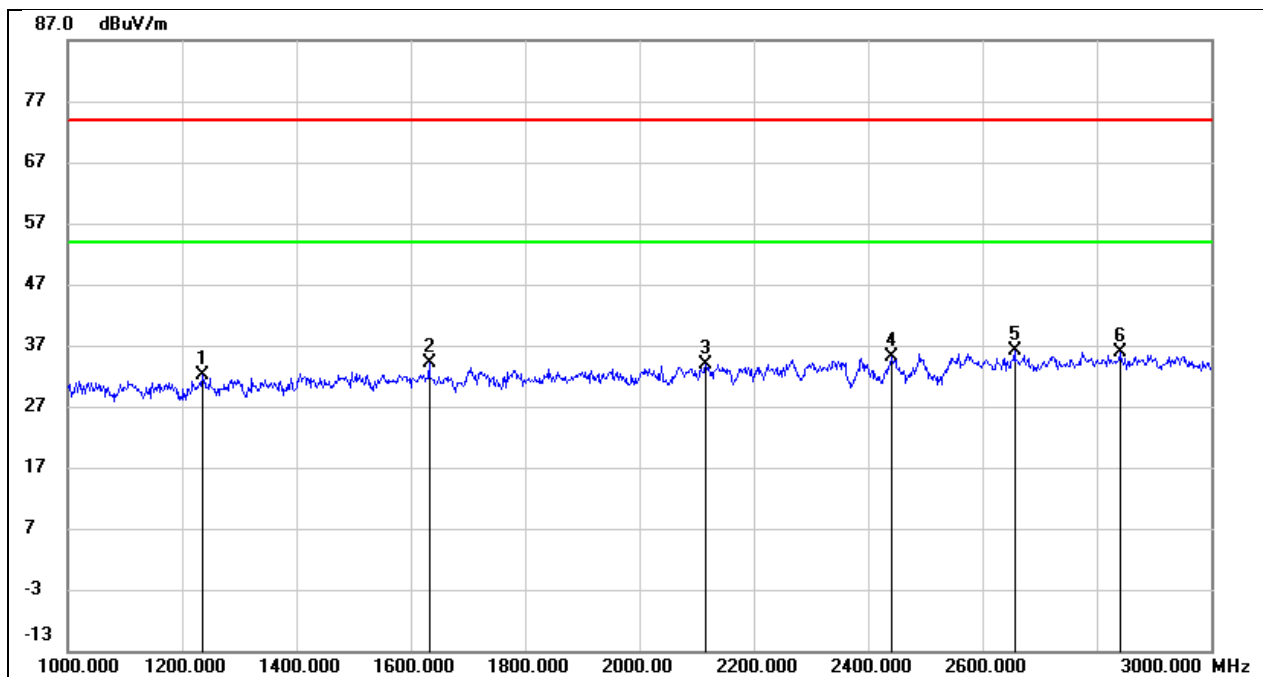
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



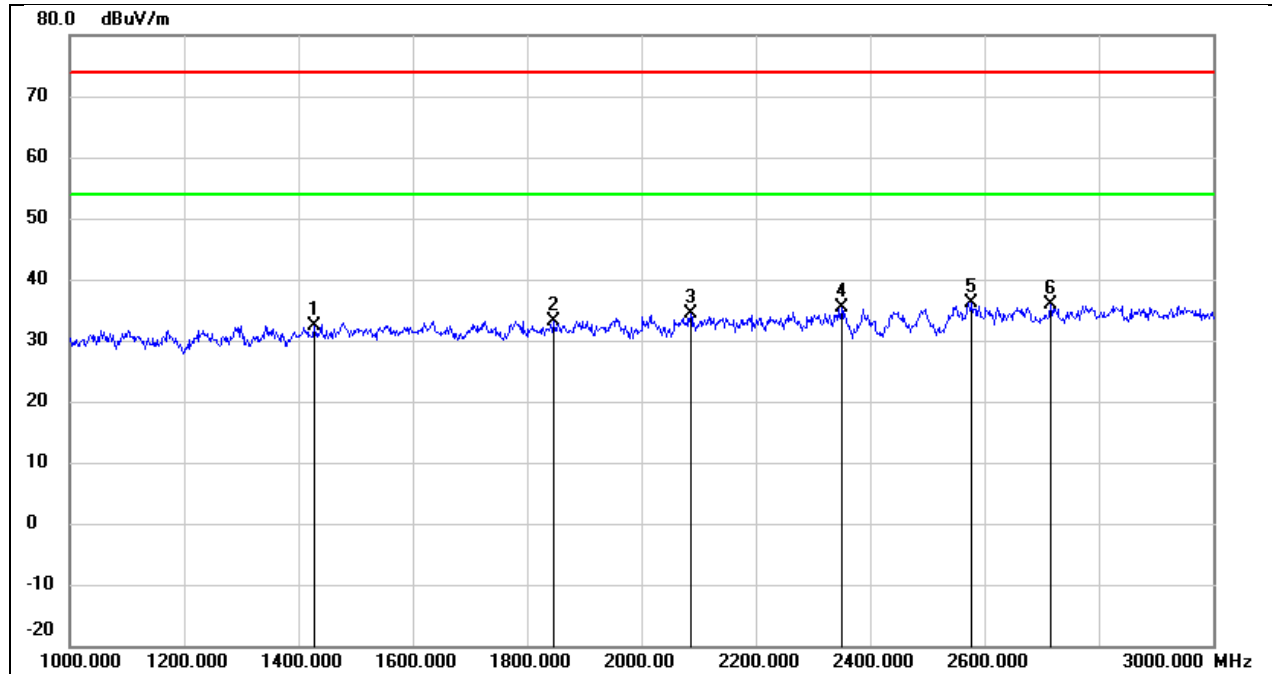
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1616.000	45.45	-12.33	33.12	74.00	-40.88	peak
2	2018.000	44.79	-10.97	33.82	74.00	-40.18	peak
3	2356.000	44.35	-9.22	35.13	74.00	-38.87	peak
4	2440.000	44.26	-8.80	35.46	74.00	-38.54	peak
5	2662.000	44.20	-8.01	36.19	74.00	-37.81	peak
6	2952.000	43.90	-7.12	36.78	74.00	-37.22	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



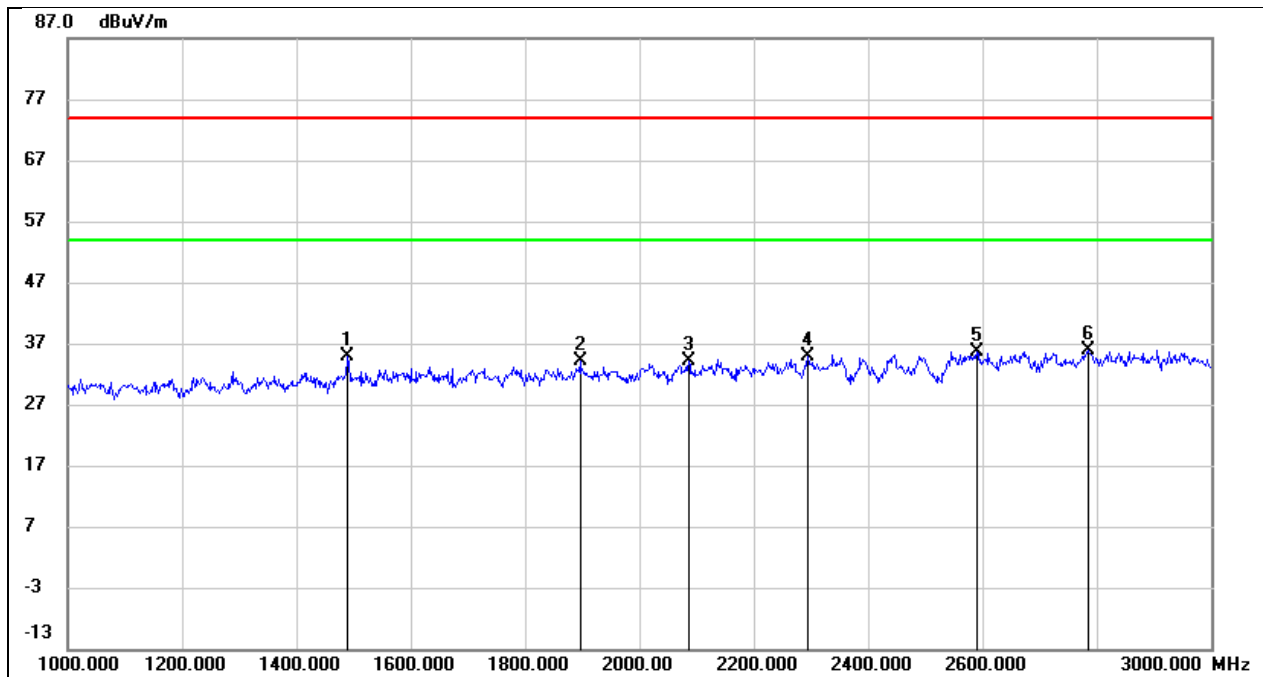
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1236.000	45.95	-13.94	32.01	74.00	-41.99	peak
2	1632.000	46.32	-12.27	34.05	74.00	-39.95	peak
3	2116.000	44.32	-10.47	33.85	74.00	-40.15	peak
4	2442.000	44.00	-8.79	35.21	74.00	-38.79	peak
5	2656.000	44.19	-8.02	36.17	74.00	-37.83	peak
6	2840.000	43.27	-7.46	35.81	74.00	-38.19	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



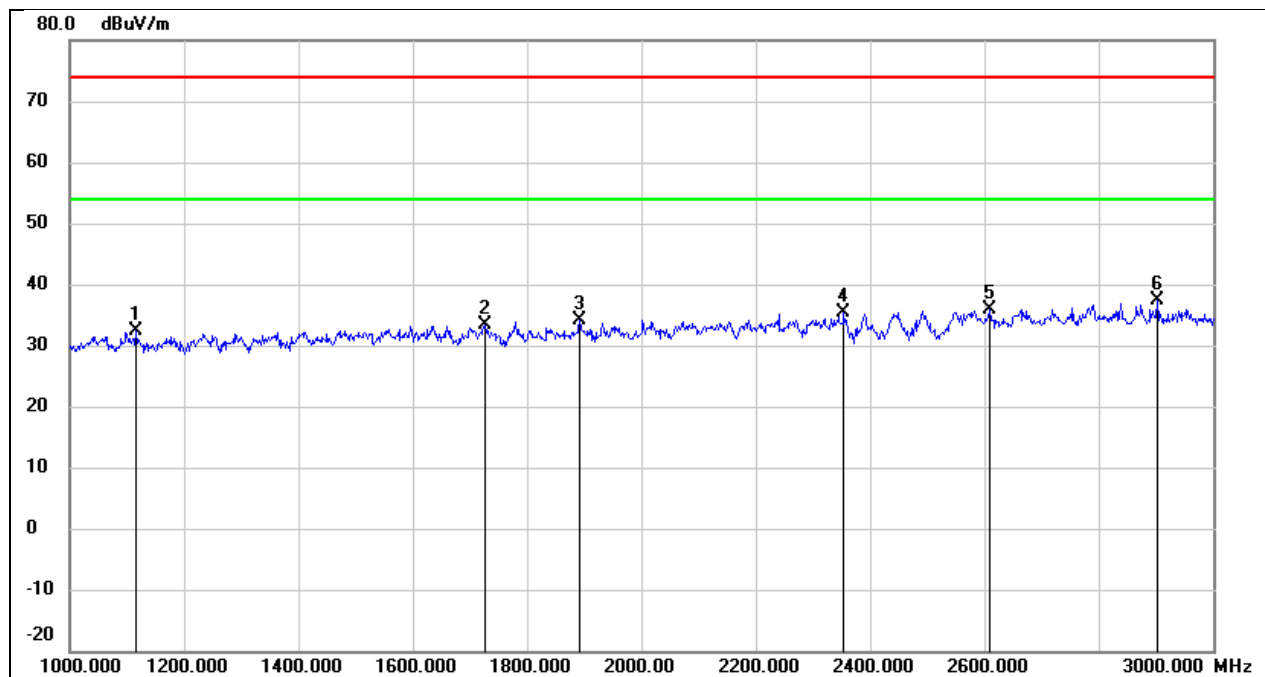
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1428.000	45.44	-13.04	32.40	74.00	-41.60	peak
2	1846.000	44.77	-11.57	33.20	74.00	-40.80	peak
3	2086.000	44.92	-10.62	34.30	74.00	-39.70	peak
4	2350.000	44.66	-9.26	35.40	74.00	-38.60	peak
5	2578.000	44.37	-8.26	36.11	74.00	-37.89	peak
6	2716.000	43.78	-7.84	35.94	74.00	-38.06	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



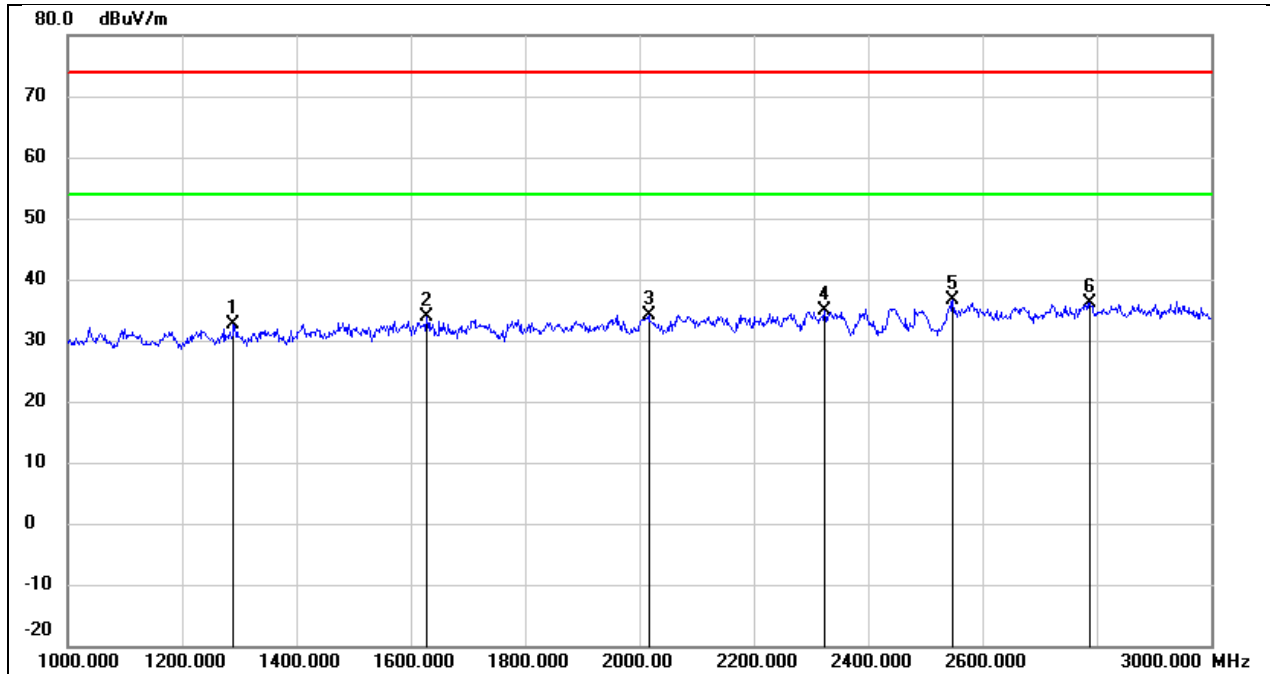
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1490.000	47.51	-12.75	34.76	74.00	-39.24	peak
2	1896.000	45.47	-11.40	34.07	74.00	-39.93	peak
3	2086.000	44.87	-10.62	34.25	74.00	-39.75	peak
4	2294.000	44.47	-9.55	34.92	74.00	-39.08	peak
5	2590.000	43.88	-8.22	35.66	74.00	-38.34	peak
6	2786.000	43.62	-7.63	35.99	74.00	-38.01	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1116.000	46.80	-14.50	32.30	74.00	-41.70	peak
2	1726.000	45.43	-11.97	33.46	74.00	-40.54	peak
3	1892.000	45.58	-11.42	34.16	74.00	-39.84	peak
4	2354.000	44.60	-9.24	35.36	74.00	-38.64	peak
5	2610.000	43.91	-8.15	35.76	74.00	-38.24	peak
6	2902.000	44.56	-7.28	37.28	74.00	-36.72	peak

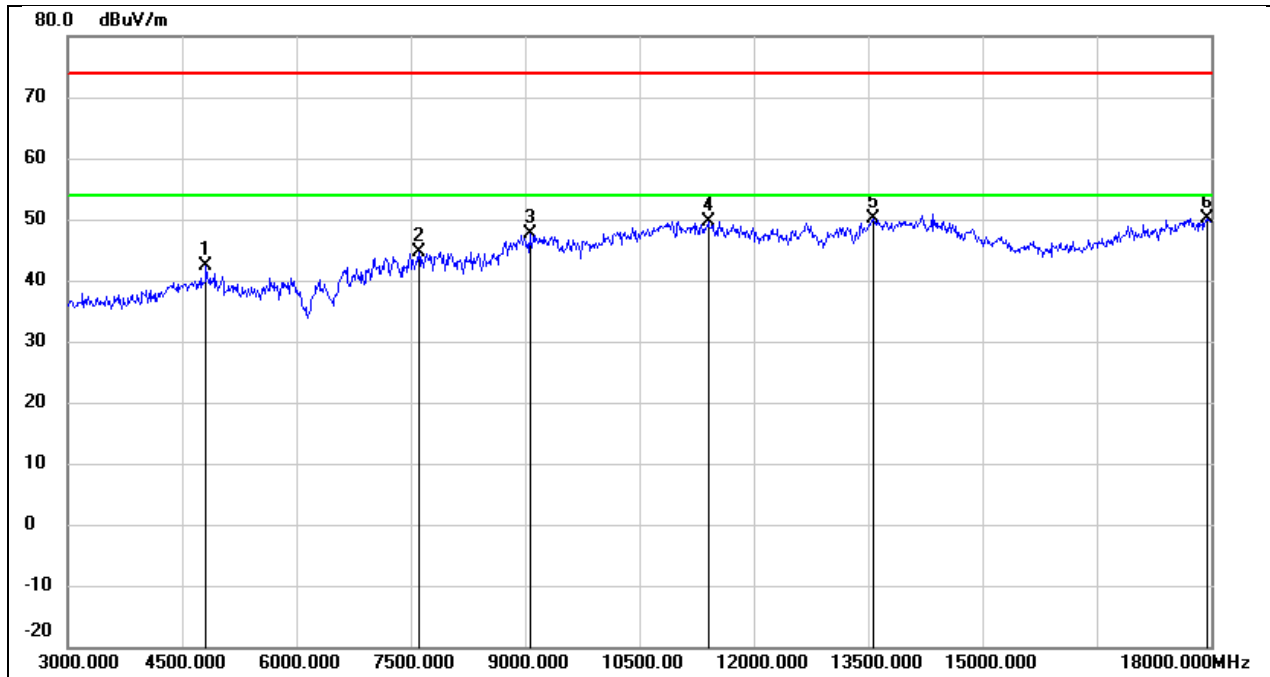
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1290.000	46.29	-13.68	32.61	74.00	-41.39	peak
2	1628.000	46.06	-12.28	33.78	74.00	-40.22	peak
3	2016.000	45.08	-10.98	34.10	74.00	-39.90	peak
4	2324.000	44.19	-9.39	34.80	74.00	-39.20	peak
5	2548.000	45.03	-8.35	36.68	74.00	-37.32	peak
6	2788.000	43.83	-7.62	36.21	74.00	-37.79	peak

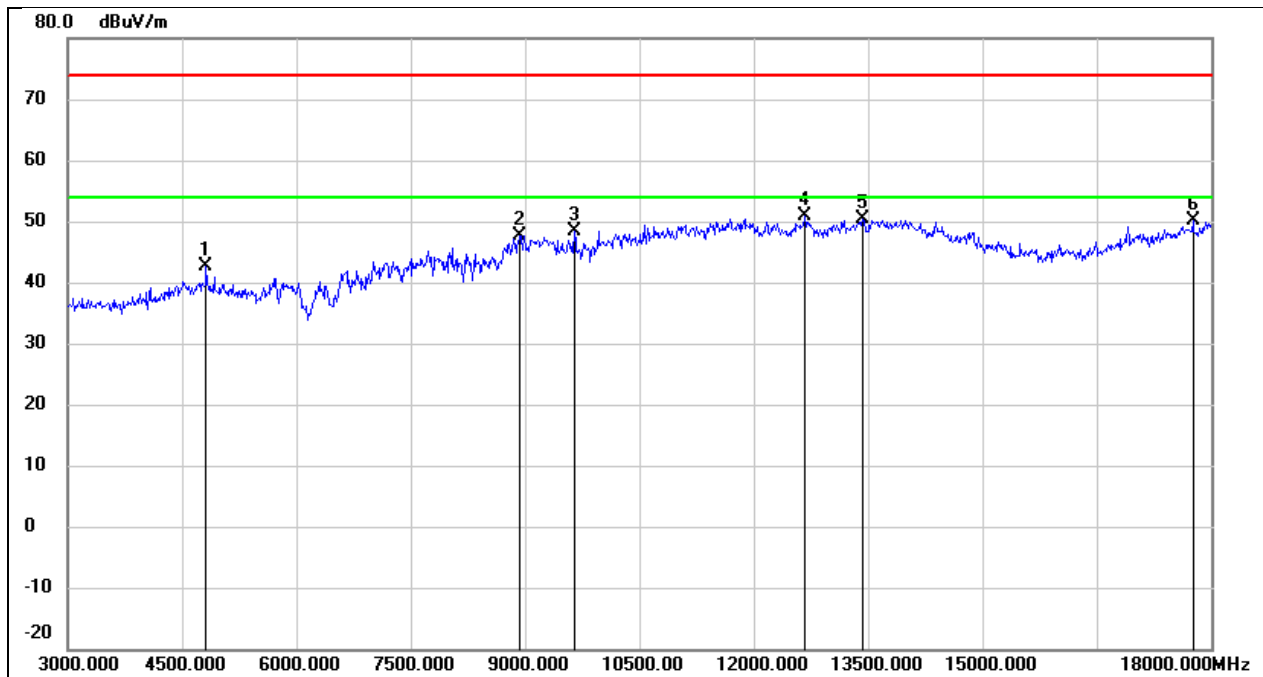
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



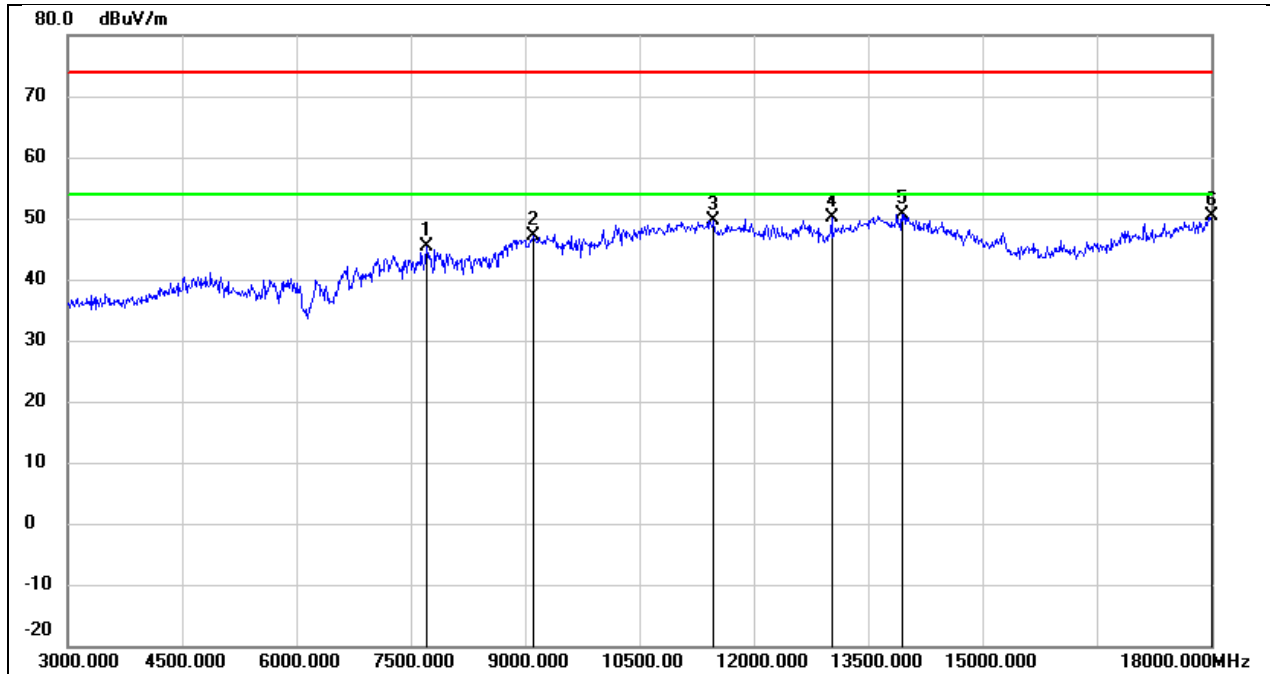
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	42.56	-0.26	42.30	74.00	-31.70	peak
2	7605.000	38.41	6.32	44.73	74.00	-29.27	peak
3	9060.000	37.08	10.51	47.59	74.00	-26.41	peak
4	11400.000	33.37	16.23	49.60	74.00	-24.40	peak
5	13575.000	29.04	21.06	50.10	74.00	-23.90	peak
6	17940.000	24.68	25.34	50.02	74.00	-23.98	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



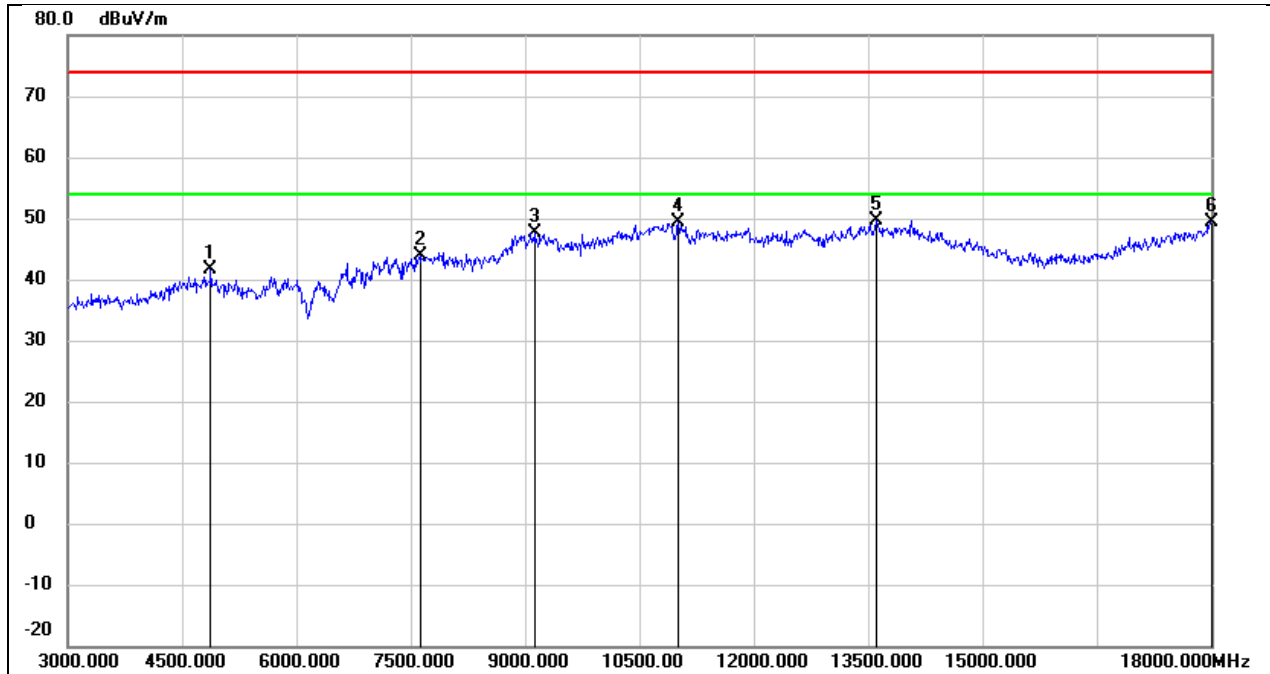
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	42.95	-0.26	42.69	74.00	-31.31	peak
2	8925.000	37.75	9.94	47.69	74.00	-26.31	peak
3	9645.000	37.38	11.08	48.46	74.00	-25.54	peak
4	12675.000	32.85	17.99	50.84	74.00	-23.16	peak
5	13425.000	29.71	20.58	50.29	74.00	-23.71	peak
6	17760.000	25.83	24.27	50.10	74.00	-23.90	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



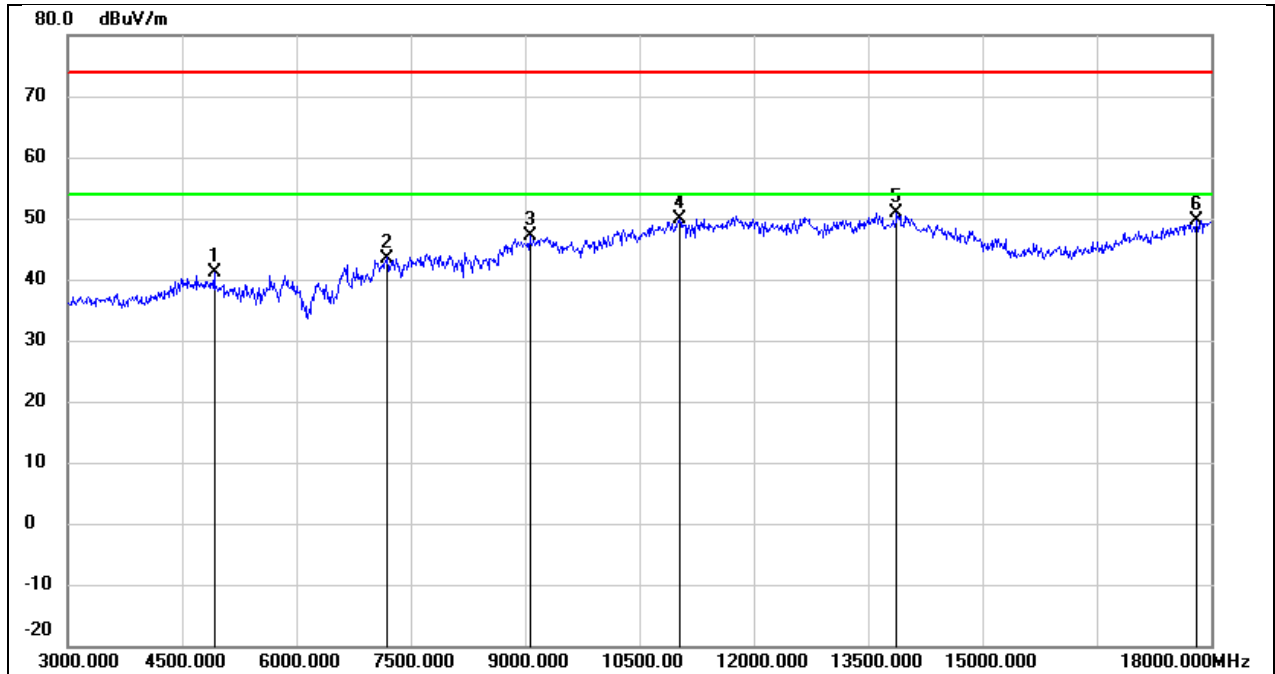
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7710.000	39.06	6.33	45.39	74.00	-28.61	peak
2	9105.000	36.52	10.53	47.05	74.00	-26.95	peak
3	11475.000	33.10	16.51	49.61	74.00	-24.39	peak
4	13020.000	31.43	18.80	50.23	74.00	-23.77	peak
5	13950.000	28.73	21.86	50.59	74.00	-23.41	peak
6	18000.000	24.63	25.69	50.32	74.00	-23.68	peak

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



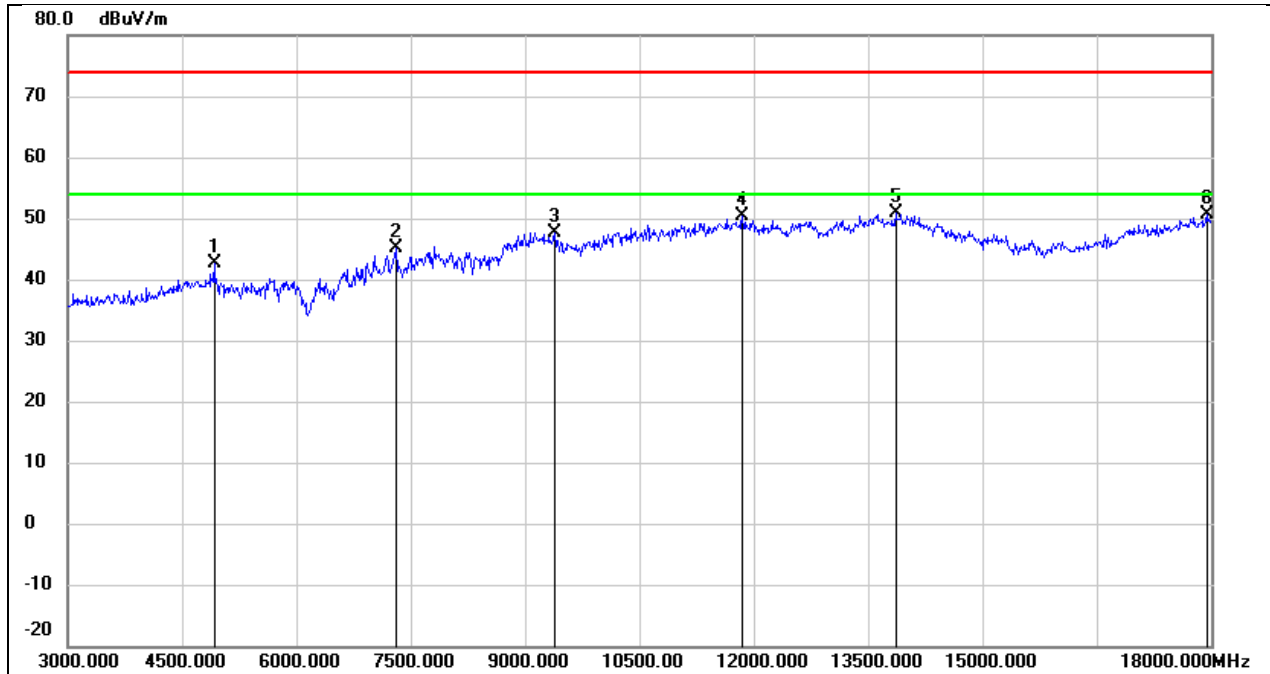
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	41.76	-0.03	41.73	74.00	-32.27	peak
2	7635.000	37.45	6.33	43.78	74.00	-30.22	peak
3	9120.000	37.20	10.53	47.73	74.00	-26.27	peak
4	11010.000	34.50	14.81	49.31	74.00	-24.69	peak
5	13605.000	28.42	21.12	49.54	74.00	-24.46	peak
6	18000.000	23.78	25.69	49.47	74.00	-24.53	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



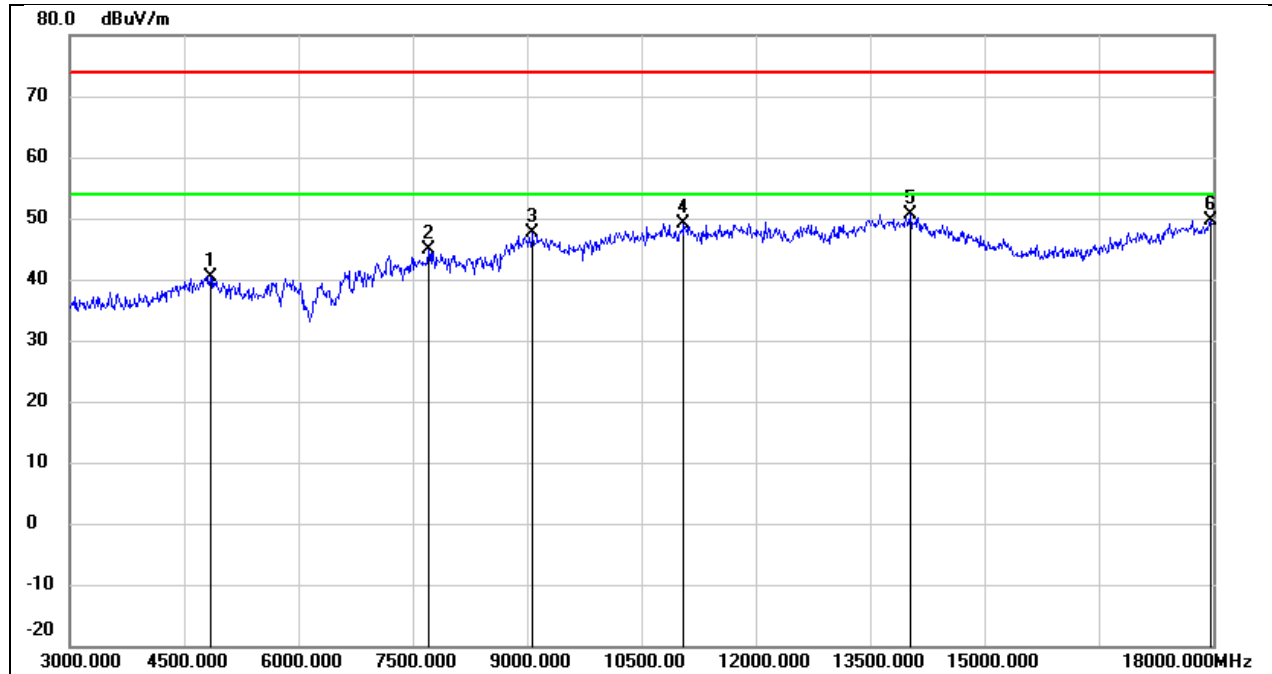
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	41.03	0.14	41.17	74.00	-32.83	peak
2	7185.000	36.95	6.55	43.50	74.00	-30.50	peak
3	9060.000	36.56	10.51	47.07	74.00	-26.93	peak
4	11025.000	35.10	14.85	49.95	74.00	-24.05	peak
5	13875.000	29.20	21.70	50.90	74.00	-23.10	peak
6	17805.000	25.07	24.54	49.61	74.00	-24.39	peak

Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



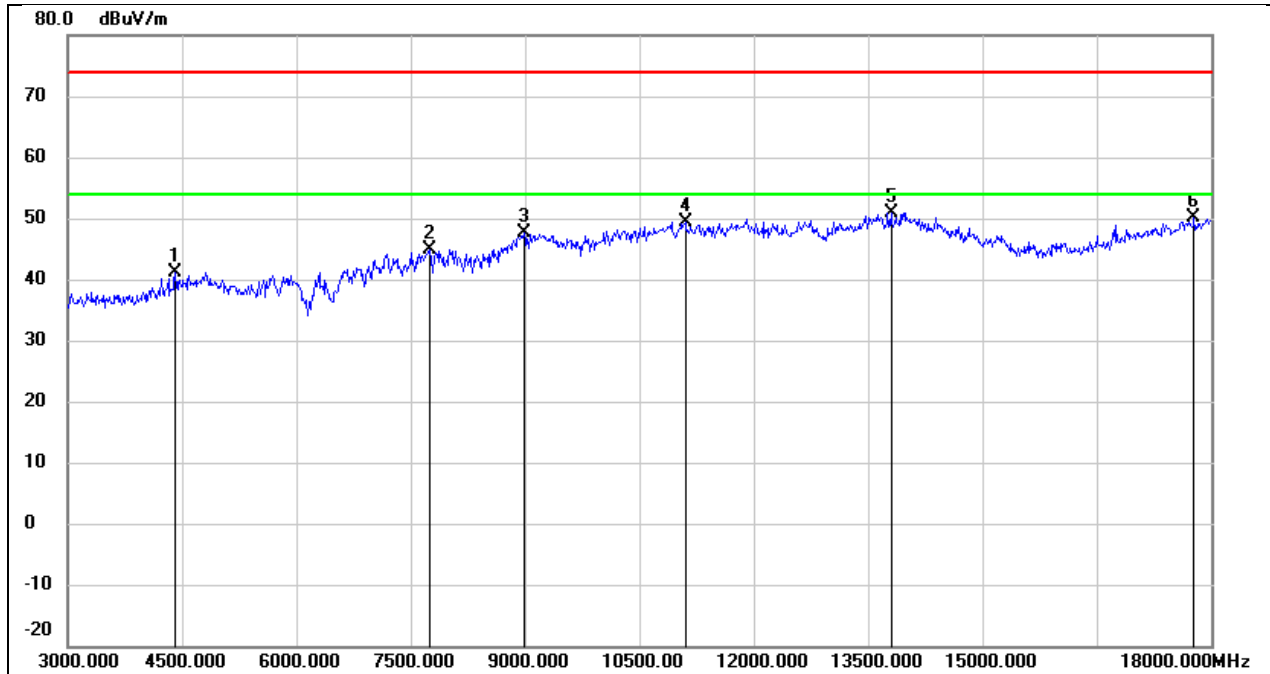
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4920.000	42.46	0.14	42.60	74.00	-31.40	peak
2	7305.000	38.59	6.47	45.06	74.00	-28.94	peak
3	9390.000	37.08	10.64	47.72	74.00	-26.28	peak
4	11850.000	32.75	17.56	50.31	74.00	-23.69	peak
5	13860.000	29.14	21.67	50.81	74.00	-23.19	peak
6	17940.000	25.17	25.34	50.51	74.00	-23.49	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



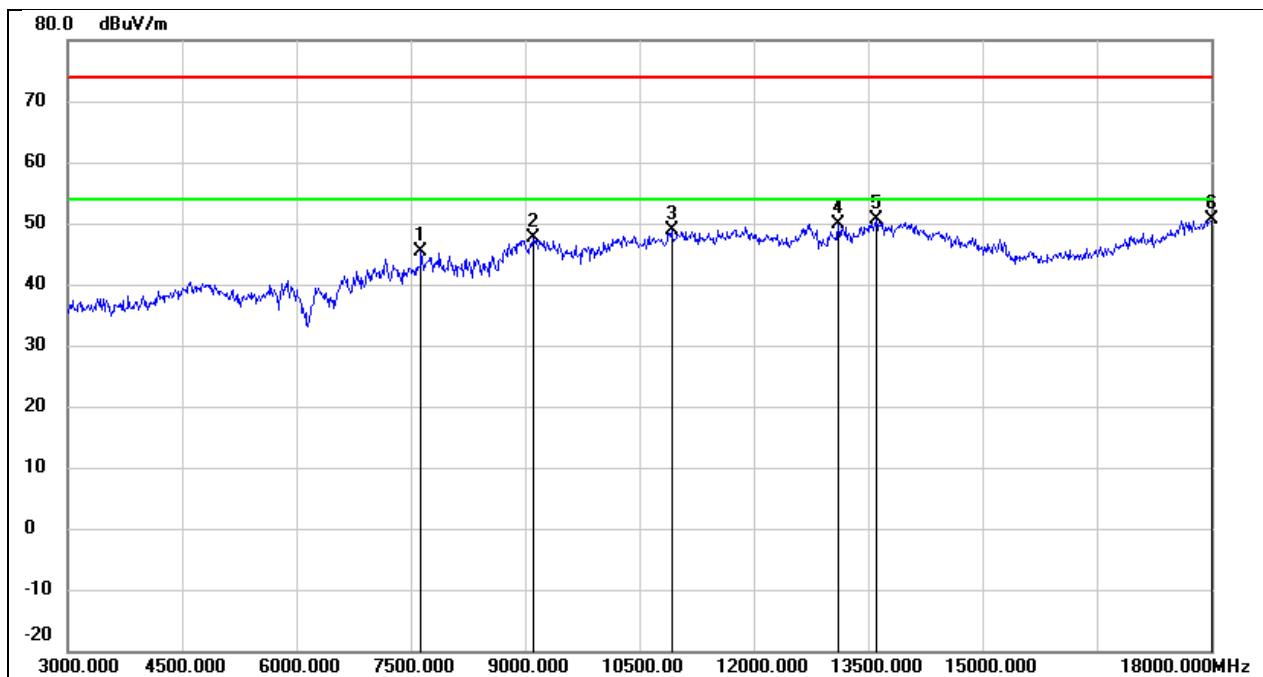
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	40.51	-0.15	40.36	74.00	-33.64	peak
2	7710.000	38.50	6.33	44.83	74.00	-29.17	peak
3	9075.000	37.07	10.52	47.59	74.00	-26.41	peak
4	11055.000	34.23	14.96	49.19	74.00	-24.81	peak
5	14025.000	28.69	21.86	50.55	74.00	-23.45	peak
6	17970.000	24.20	25.51	49.71	74.00	-24.29	peak

Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



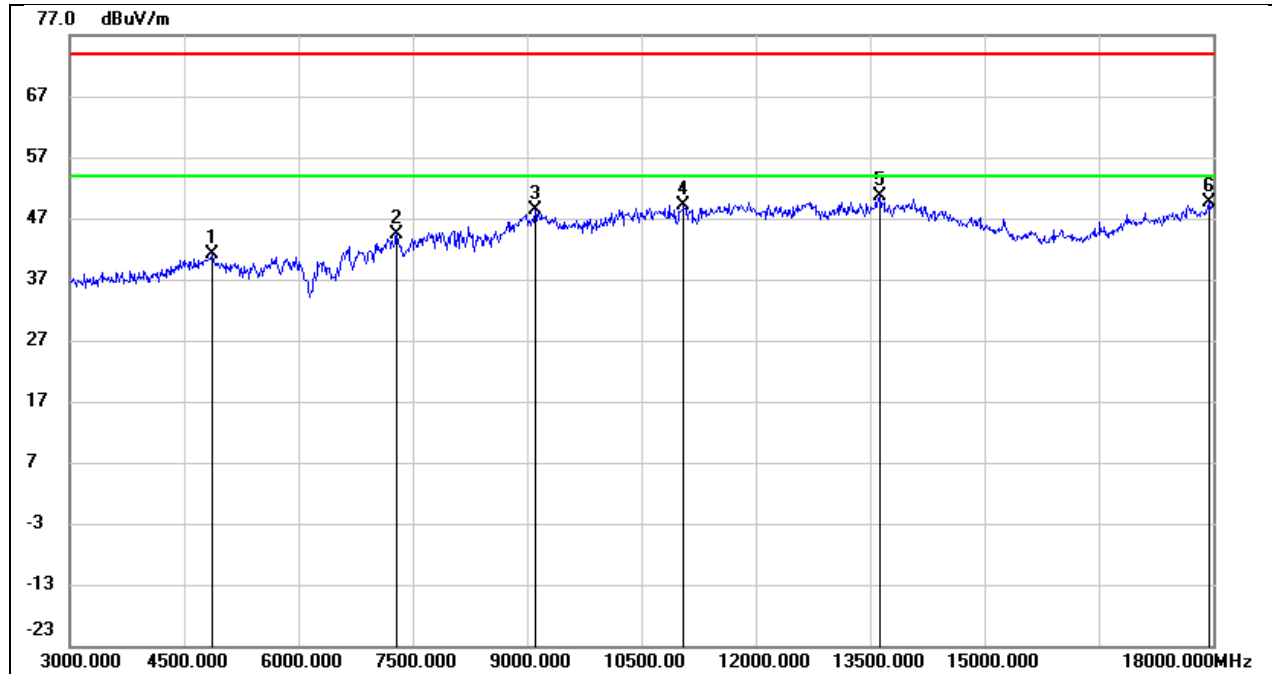
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4410.000	43.09	-1.88	41.21	74.00	-32.79	peak
2	7740.000	38.68	6.32	45.00	74.00	-29.00	peak
3	8985.000	37.26	10.37	47.63	74.00	-26.37	peak
4	11100.000	34.30	15.14	49.44	74.00	-24.56	peak
5	13800.000	29.37	21.54	50.91	74.00	-23.09	peak
6	17775.000	25.68	24.36	50.04	74.00	-23.96	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



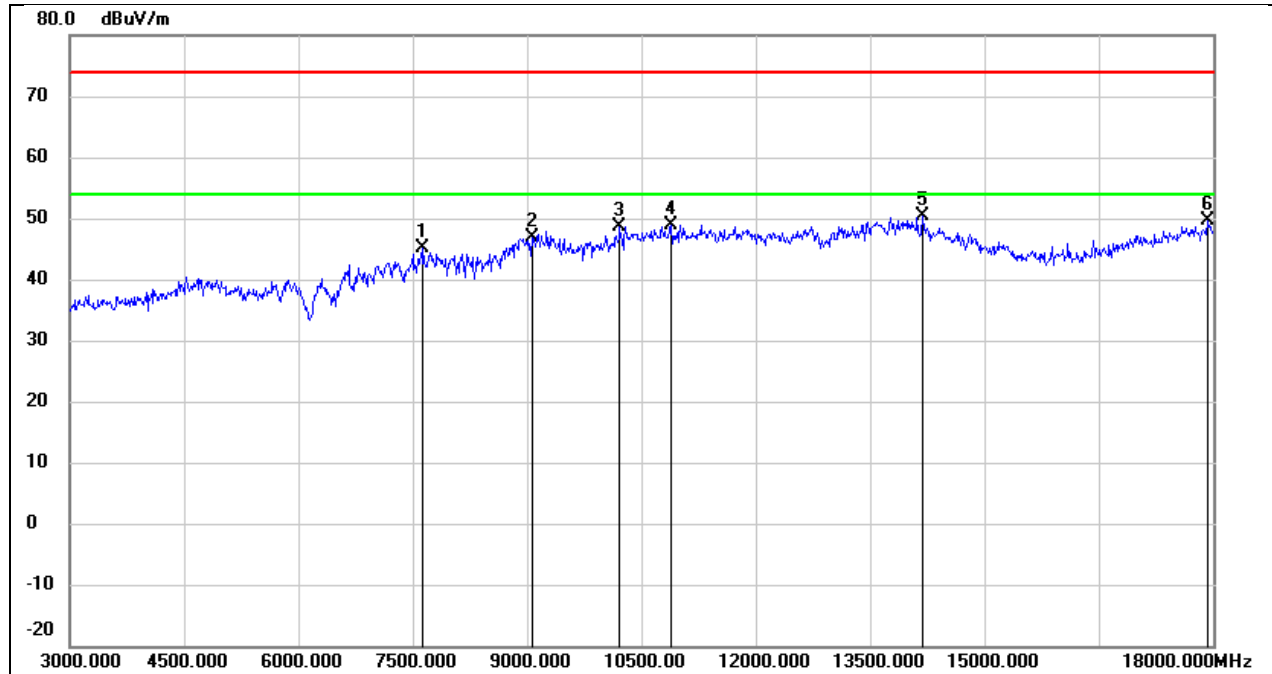
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7635.000	39.05	6.33	45.38	74.00	-28.62	peak
2	9105.000	36.98	10.53	47.51	74.00	-26.49	peak
3	10920.000	34.43	14.49	48.92	74.00	-25.08	peak
4	13110.000	30.76	19.20	49.96	74.00	-24.04	peak
5	13605.000	29.63	21.12	50.75	74.00	-23.25	peak
6	18000.000	24.93	25.69	50.62	74.00	-23.38	peak

Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



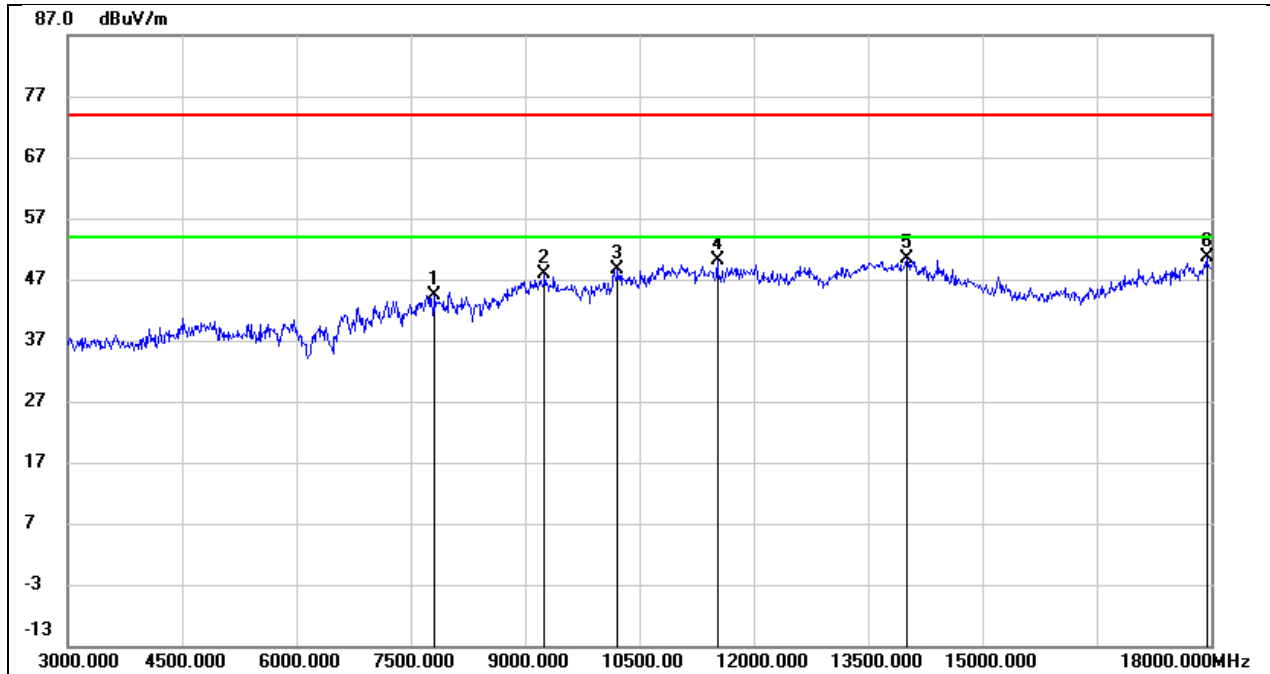
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4860.000	41.31	-0.09	41.22	74.00	-32.78	peak
2	7290.000	38.02	6.48	44.50	74.00	-29.50	peak
3	9105.000	37.73	10.53	48.26	74.00	-25.74	peak
4	11055.000	34.23	14.96	49.19	74.00	-24.81	peak
5	13635.000	29.52	21.19	50.71	74.00	-23.29	peak
6	17955.000	24.09	25.42	49.51	74.00	-24.49	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



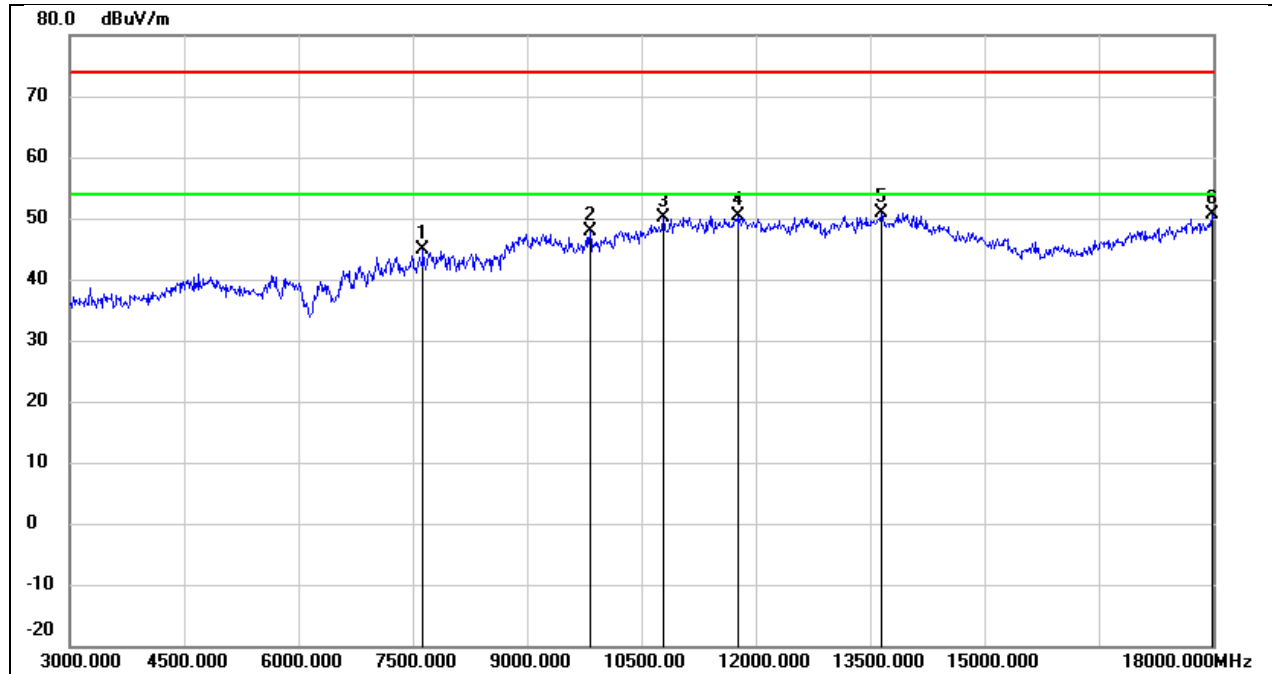
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7635.000	38.84	6.33	45.17	74.00	-28.83	peak
2	9060.000	36.43	10.51	46.94	74.00	-27.06	peak
3	10215.000	36.22	12.43	48.65	74.00	-25.35	peak
4	10890.000	34.59	14.39	48.98	74.00	-25.02	peak
5	14190.000	29.16	21.17	50.33	74.00	-23.67	peak
6	17925.000	24.30	25.25	49.55	74.00	-24.45	peak

Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



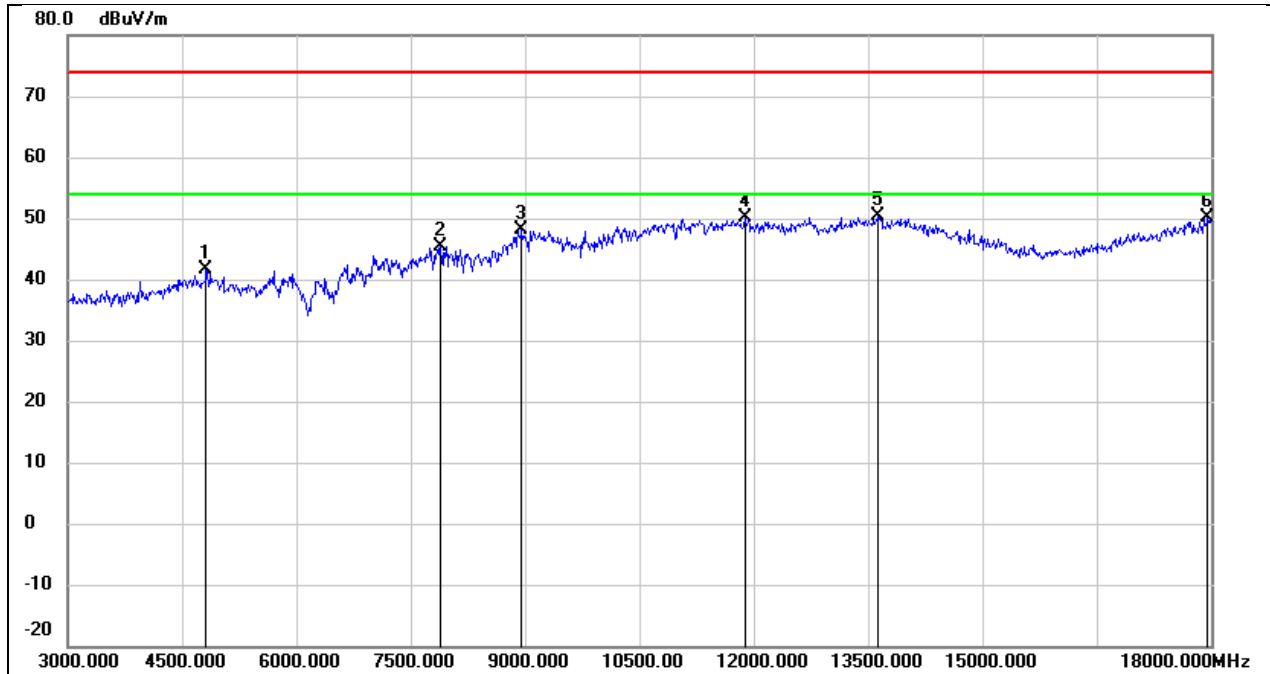
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7815.000	38.13	6.32	44.45	74.00	-29.55	peak
2	9255.000	37.36	10.59	47.95	74.00	-26.05	peak
3	10215.000	36.15	12.43	48.58	74.00	-25.42	peak
4	11520.000	33.37	16.65	50.02	74.00	-23.98	peak
5	14010.000	28.45	21.93	50.38	74.00	-23.62	peak
6	17940.000	25.28	25.34	50.62	74.00	-23.38	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



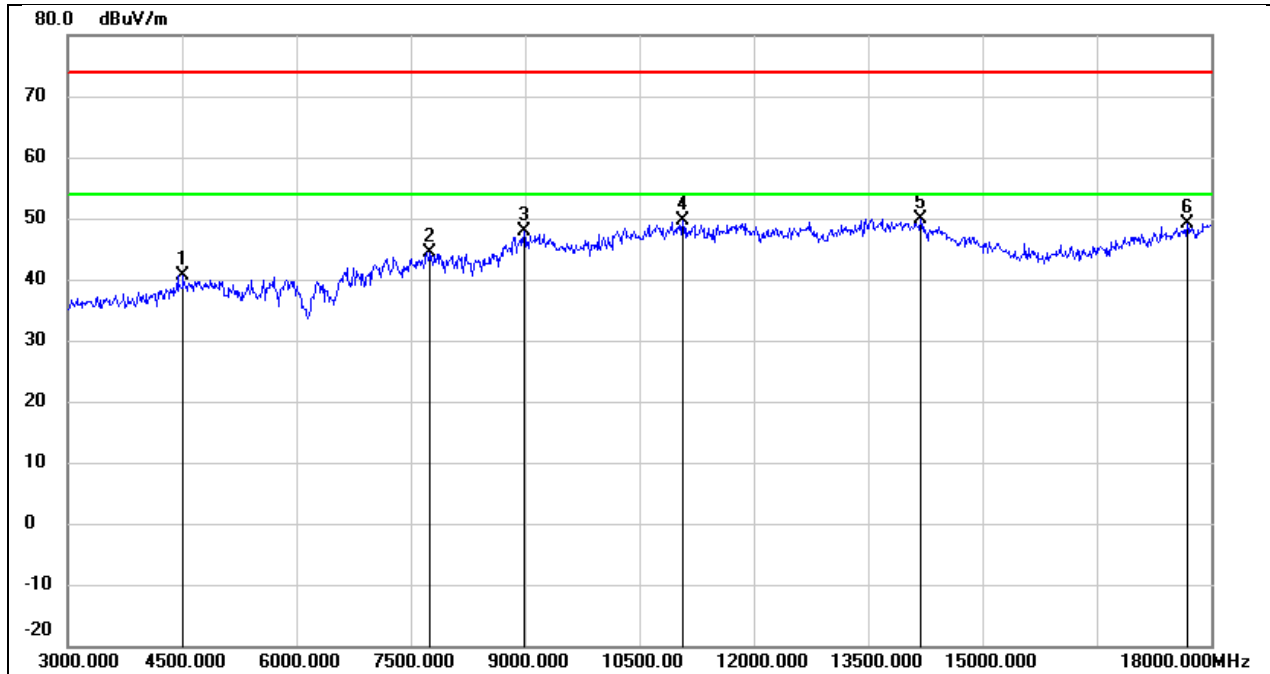
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7635.000	38.57	6.33	44.90	74.00	-29.10	peak
2	9825.000	36.37	11.56	47.93	74.00	-26.07	peak
3	10785.000	36.01	14.01	50.02	74.00	-23.98	peak
4	11760.000	32.95	17.31	50.26	74.00	-23.74	peak
5	13650.000	29.75	21.21	50.96	74.00	-23.04	peak
6	17985.000	24.91	25.60	50.51	74.00	-23.49	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



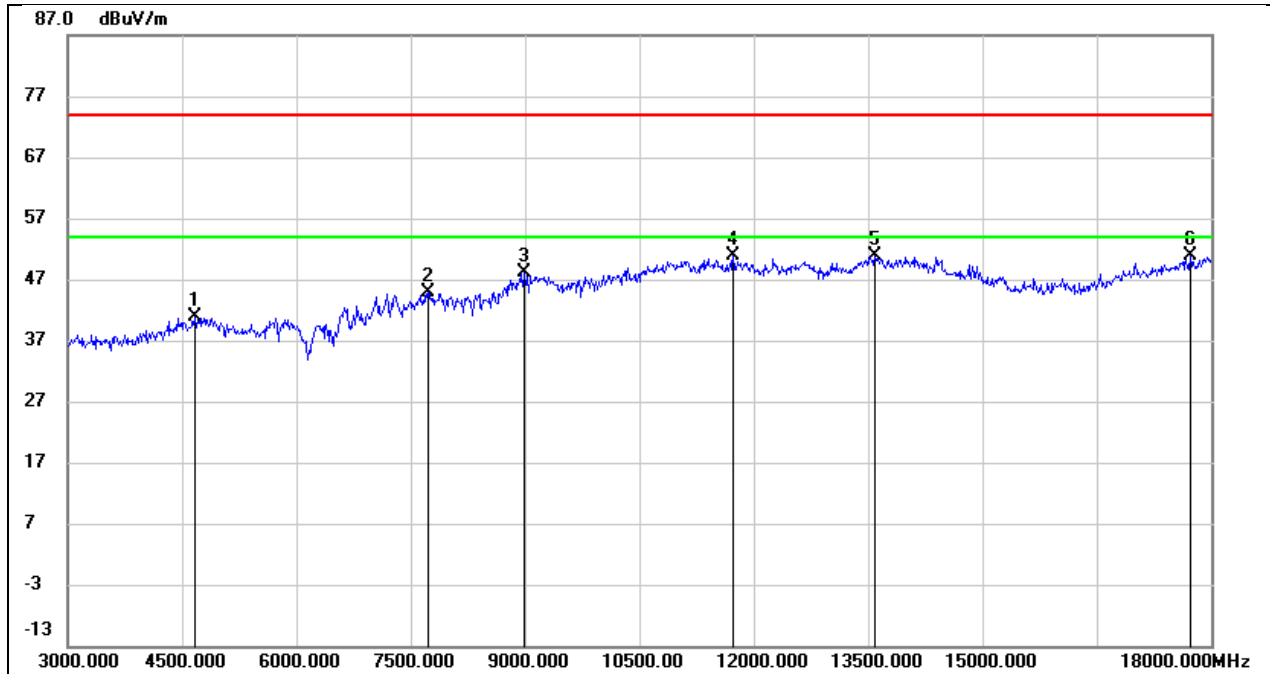
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.99	-0.26	41.73	74.00	-32.27	peak
2	7890.000	38.96	6.31	45.27	74.00	-28.73	peak
3	8955.000	37.95	10.16	48.11	74.00	-25.89	peak
4	11880.000	32.58	17.63	50.21	74.00	-23.79	peak
5	13620.000	29.30	21.15	50.45	74.00	-23.55	peak
6	17955.000	24.59	25.42	50.01	74.00	-23.99	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



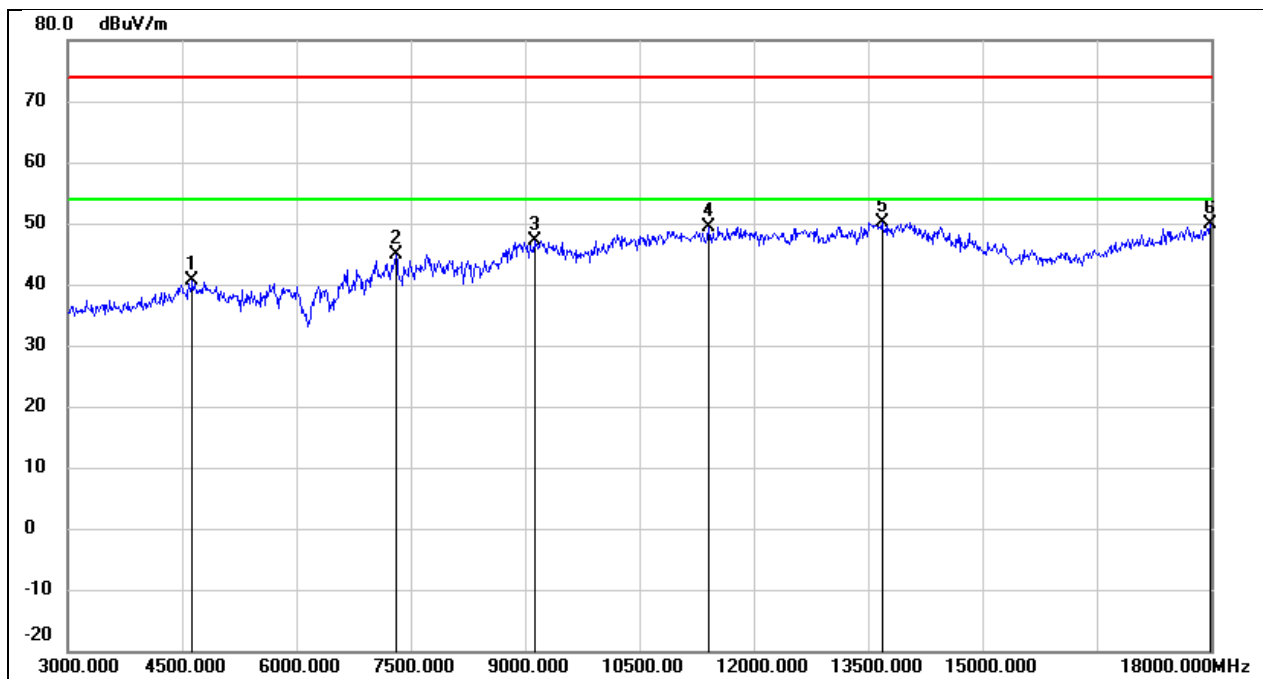
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4515.000	41.97	-1.40	40.57	74.00	-33.43	peak
2	7755.000	38.13	6.31	44.44	74.00	-29.56	peak
3	8985.000	37.47	10.37	47.84	74.00	-26.16	peak
4	11070.000	34.63	15.03	49.66	74.00	-24.34	peak
5	14190.000	28.80	21.17	49.97	74.00	-24.03	peak
6	17685.000	25.28	23.82	49.10	74.00	-24.90	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



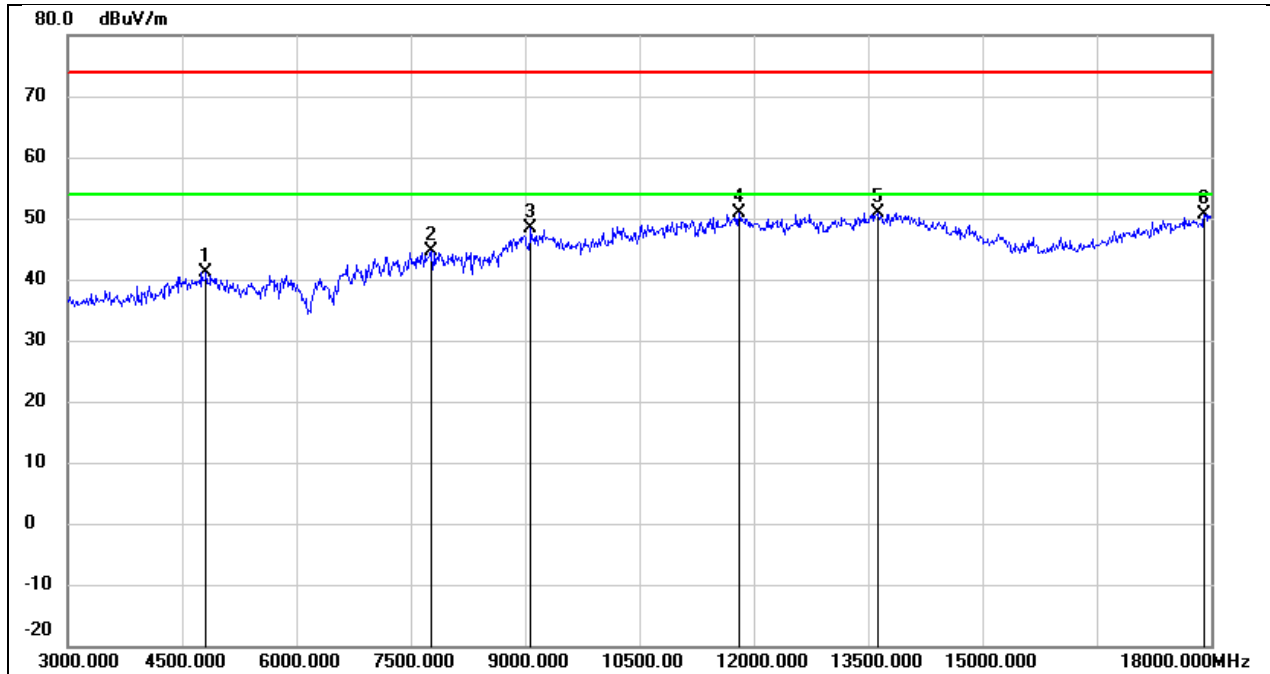
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4665.000	41.76	-0.83	40.93	74.00	-33.07	peak
2	7725.000	38.57	6.32	44.89	74.00	-29.11	peak
3	8985.000	37.76	10.37	48.13	74.00	-25.87	peak
4	11730.000	33.66	17.22	50.88	74.00	-23.12	peak
5	13590.000	29.81	21.09	50.90	74.00	-23.10	peak
6	17730.000	26.84	24.09	50.93	74.00	-23.07	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



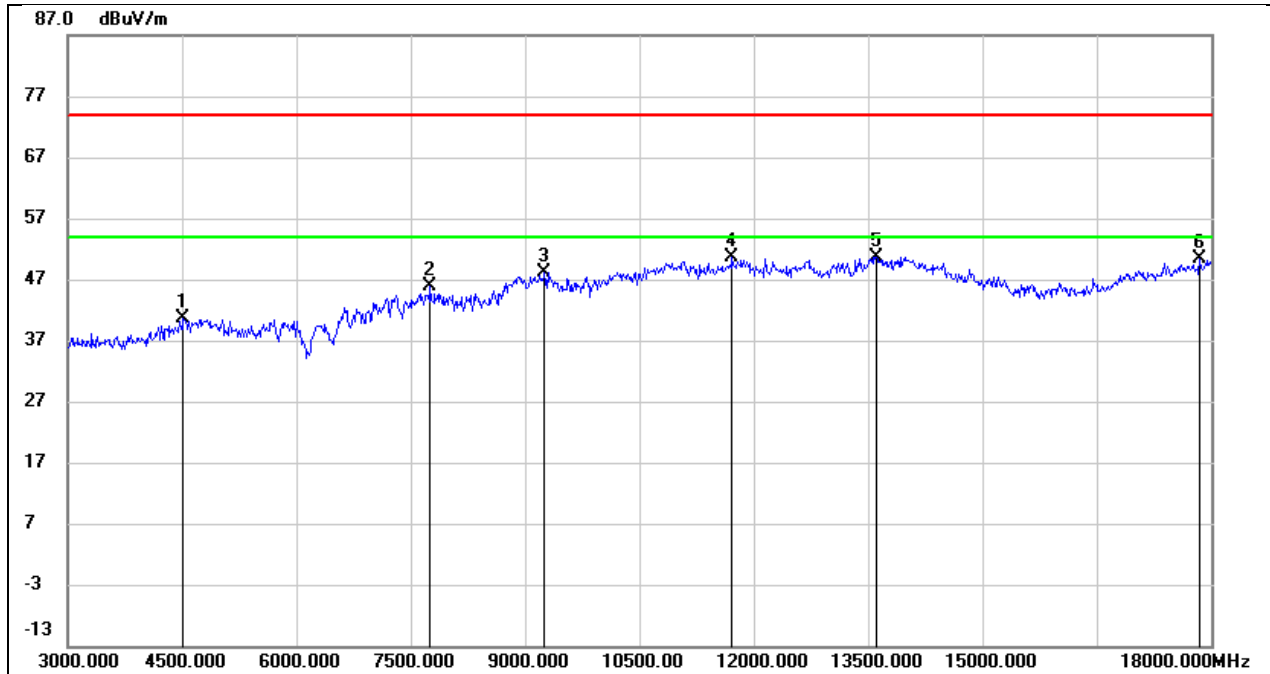
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4635.000	41.53	-0.95	40.58	74.00	-33.42	peak
2	7305.000	38.47	6.47	44.94	74.00	-29.06	peak
3	9120.000	36.69	10.53	47.22	74.00	-26.78	peak
4	11400.000	33.19	16.23	49.42	74.00	-24.58	peak
5	13680.000	28.78	21.29	50.07	74.00	-23.93	peak
6	17985.000	24.35	25.60	49.95	74.00	-24.05	peak

Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



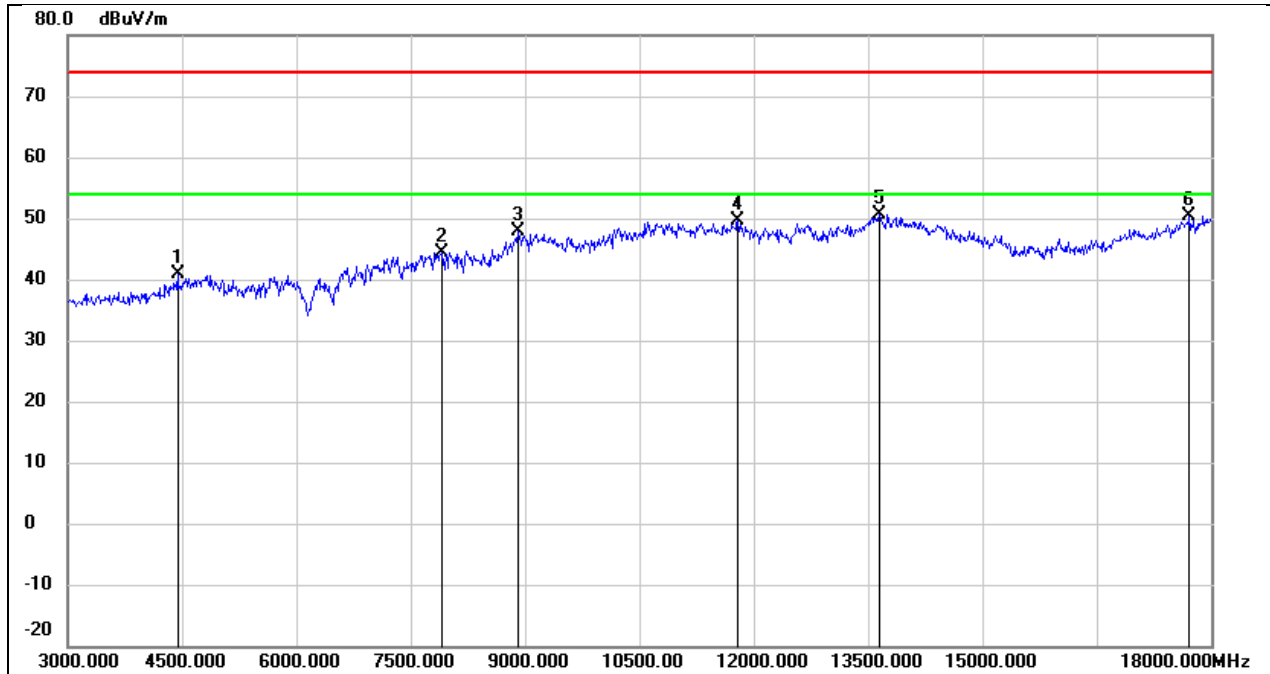
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.40	-0.26	41.14	74.00	-32.86	peak
2	7770.000	38.24	6.31	44.55	74.00	-29.45	peak
3	9075.000	37.92	10.52	48.44	74.00	-25.56	peak
4	11805.000	33.39	17.43	50.82	74.00	-23.18	peak
5	13620.000	29.71	21.15	50.86	74.00	-23.14	peak
6	17910.000	25.54	25.16	50.70	74.00	-23.30	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



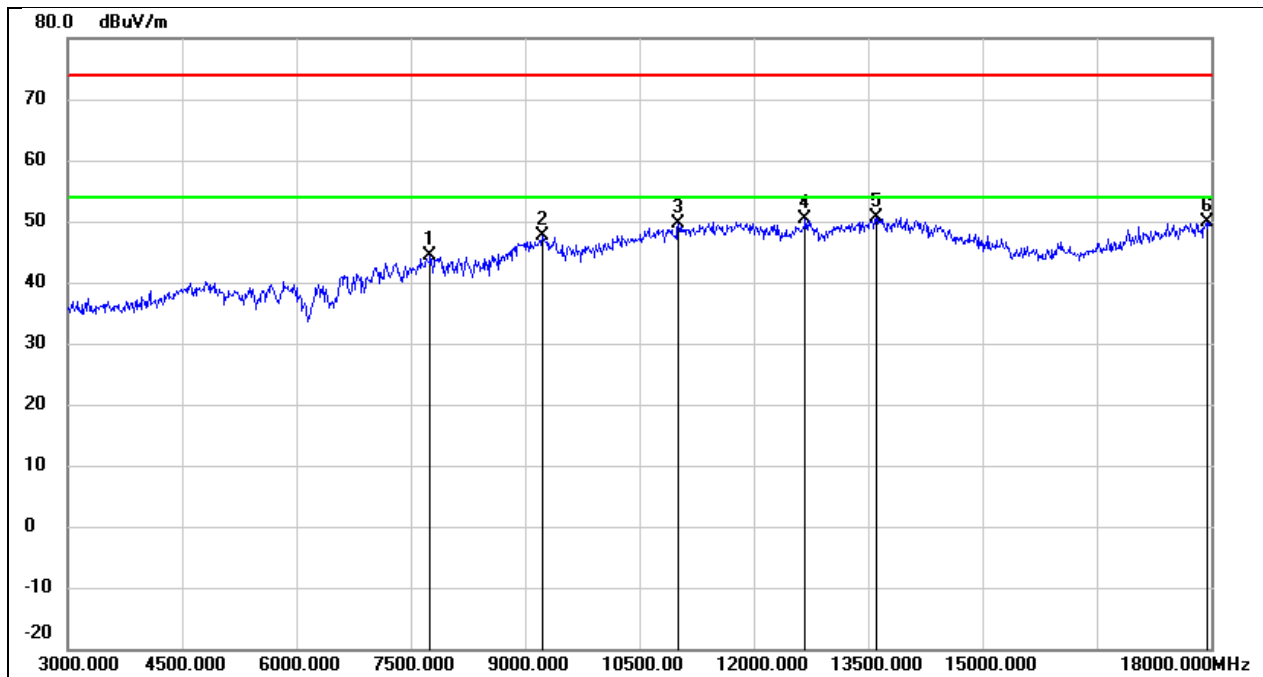
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4515.000	42.15	-1.40	40.75	74.00	-33.25	peak
2	7755.000	39.66	6.31	45.97	74.00	-28.03	peak
3	9255.000	37.64	10.59	48.23	74.00	-25.77	peak
4	11715.000	33.50	17.19	50.69	74.00	-23.31	peak
5	13605.000	29.54	21.12	50.66	74.00	-23.34	peak
6	17850.000	25.57	24.81	50.38	74.00	-23.62	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5 V



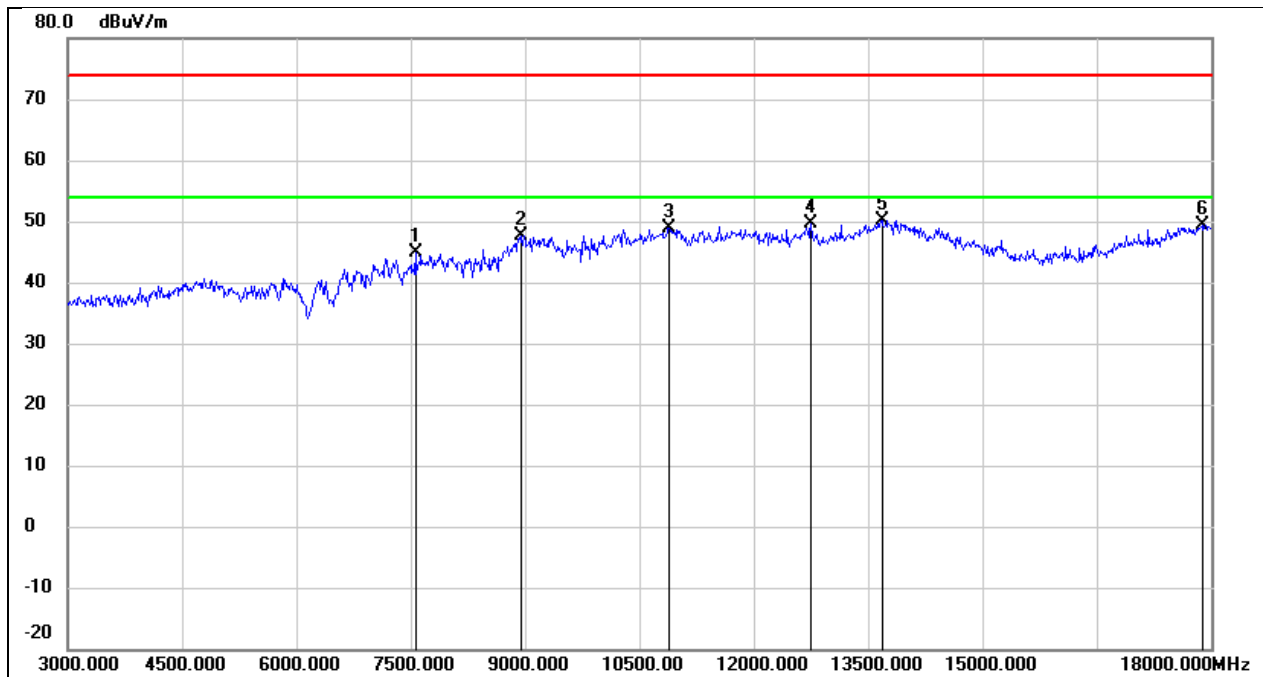
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4440.000	42.59	-1.74	40.85	74.00	-33.15	peak
2	7905.000	38.11	6.31	44.42	74.00	-29.58	peak
3	8910.000	37.98	9.82	47.80	74.00	-26.20	peak
4	11790.000	32.27	17.38	49.65	74.00	-24.35	peak
5	13650.000	29.35	21.21	50.56	74.00	-23.44	peak
6	17715.000	26.50	24.00	50.50	74.00	-23.50	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



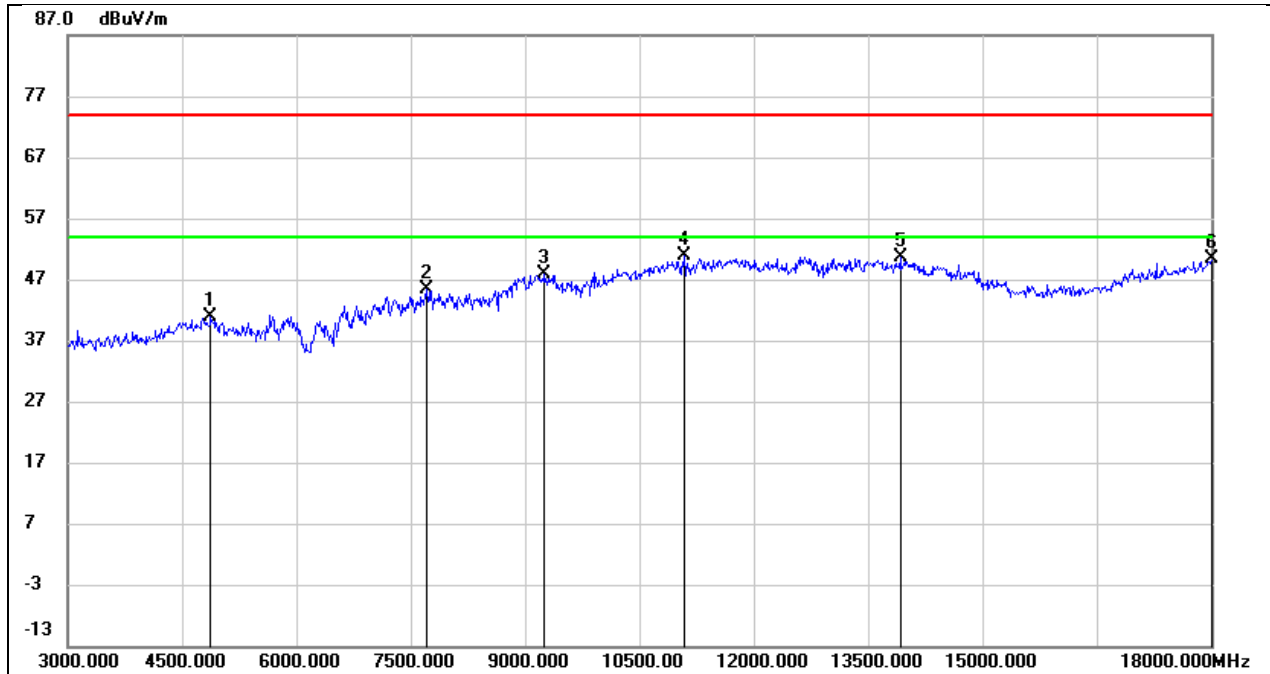
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7755.000	38.05	6.31	44.36	74.00	-29.64	peak
2	9225.000	37.00	10.58	47.58	74.00	-26.42	peak
3	11010.000	34.82	14.81	49.63	74.00	-24.37	peak
4	12675.000	32.30	17.99	50.29	74.00	-23.71	peak
5	13605.000	29.42	21.12	50.54	74.00	-23.46	peak
6	17940.000	24.51	25.34	49.85	74.00	-24.15	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



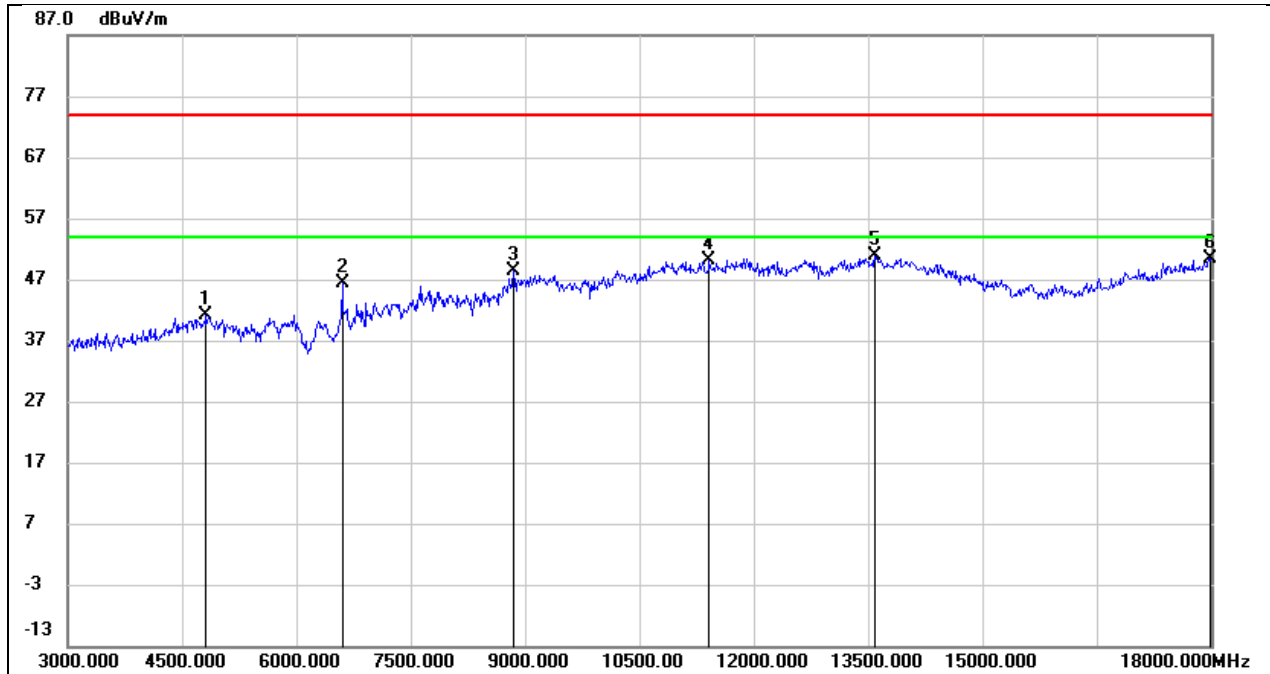
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7560.000	38.66	6.33	44.99	74.00	-29.01	peak
2	8955.000	37.39	10.16	47.55	74.00	-26.45	peak
3	10890.000	34.54	14.39	48.93	74.00	-25.07	peak
4	12750.000	31.54	18.16	49.70	74.00	-24.30	peak
5	13680.000	28.91	21.29	50.20	74.00	-23.80	peak
6	17880.000	24.51	24.98	49.49	74.00	-24.51	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



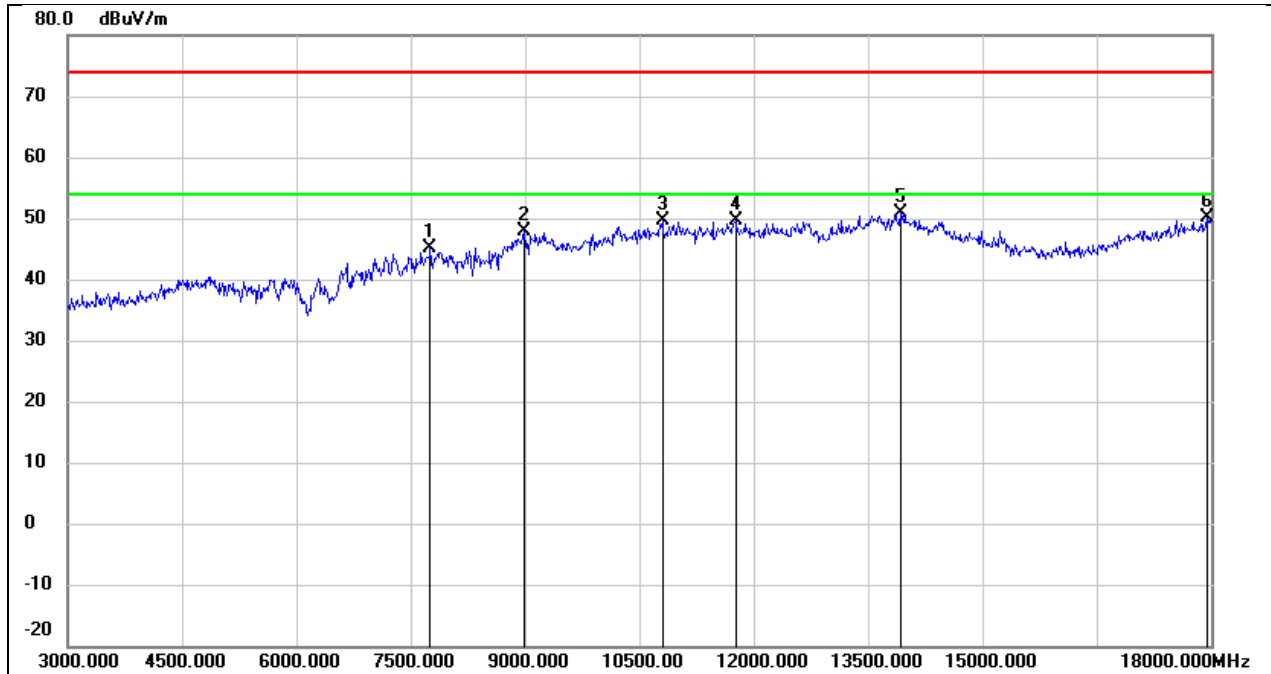
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	40.84	-0.03	40.81	74.00	-33.19	peak
2	7710.000	39.03	6.33	45.36	74.00	-28.64	peak
3	9255.000	37.29	10.59	47.88	74.00	-26.12	peak
4	11085.000	35.75	15.08	50.83	74.00	-23.17	peak
5	13920.000	28.88	21.79	50.67	74.00	-23.33	peak
6	18000.000	24.62	25.69	50.31	74.00	-23.69	peak

Test Mode:	802.11n HT40	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



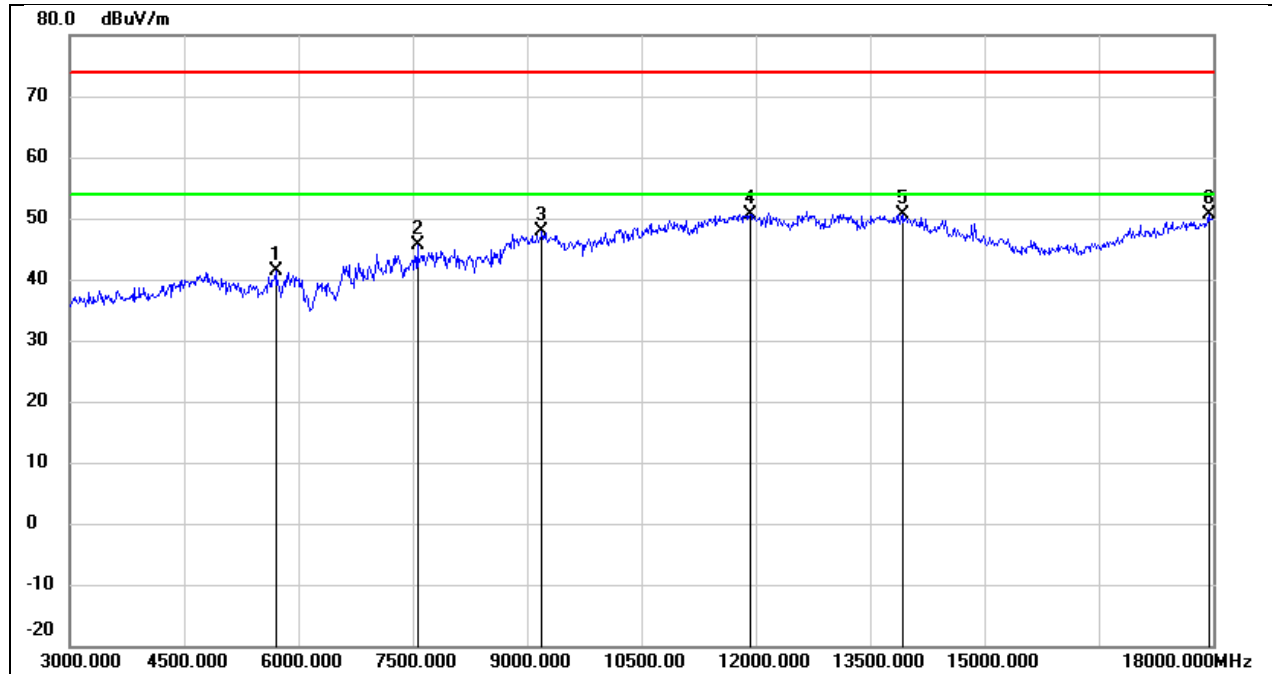
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.28	-0.26	41.02	74.00	-32.98	peak
2	6600.000	41.66	4.71	46.37	74.00	-27.63	peak
3	8850.000	38.95	9.39	48.34	74.00	-25.66	peak
4	11415.000	33.89	16.29	50.18	74.00	-23.82	peak
5	13590.000	29.68	21.09	50.77	74.00	-23.23	peak
6	17985.000	24.85	25.60	50.45	74.00	-23.55	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



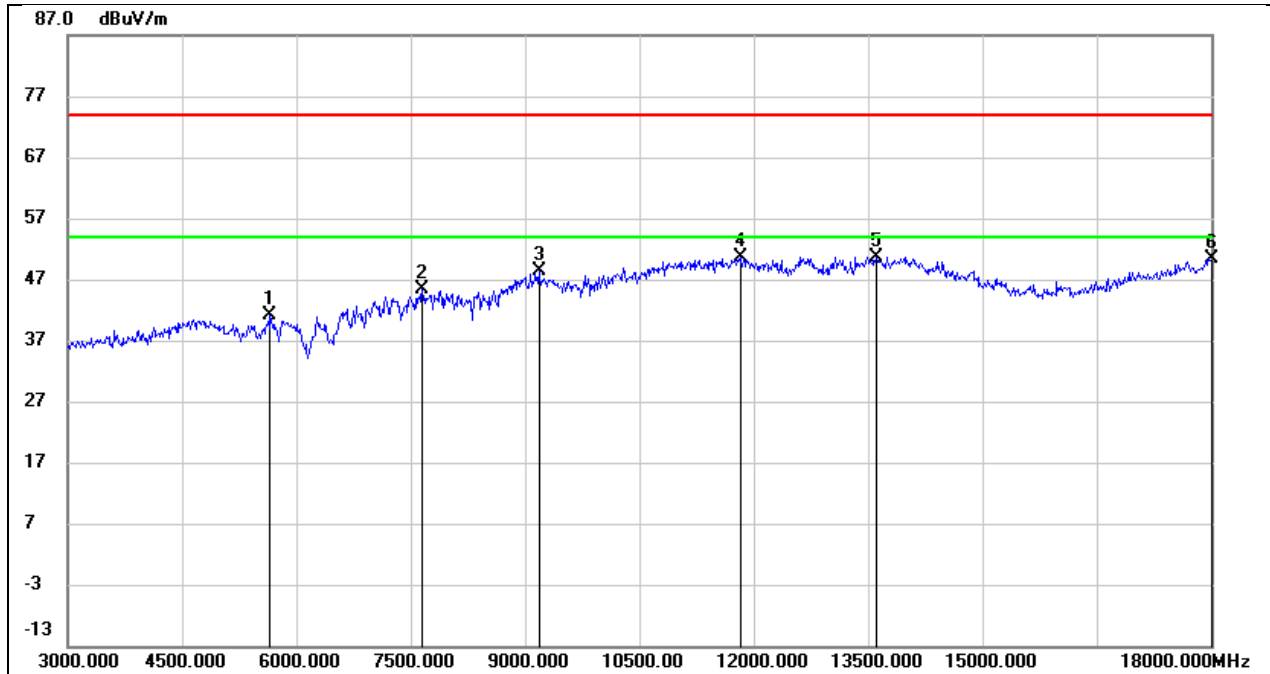
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7755.000	38.85	6.31	45.16	74.00	-28.84	peak
2	8985.000	37.40	10.37	47.77	74.00	-26.23	peak
3	10800.000	35.62	14.06	49.68	74.00	-24.32	peak
4	11760.000	32.24	17.31	49.55	74.00	-24.45	peak
5	13920.000	28.99	21.79	50.78	74.00	-23.22	peak
6	17940.000	24.68	25.34	50.02	74.00	-23.98	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



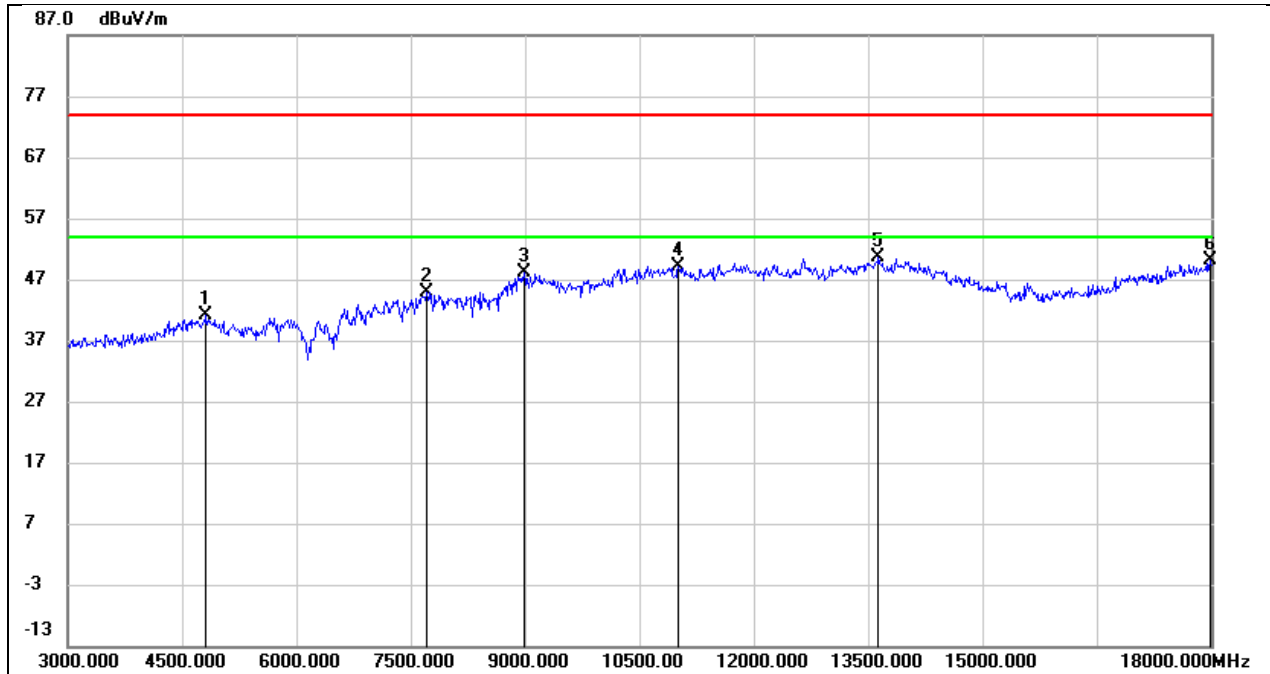
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5700.000	39.92	1.41	41.33	74.00	-32.67	peak
2	7560.000	39.29	6.33	45.62	74.00	-28.38	peak
3	9195.000	37.36	10.56	47.92	74.00	-26.08	peak
4	11925.000	32.91	17.75	50.66	74.00	-23.34	peak
5	13920.000	28.94	21.79	50.73	74.00	-23.27	peak
6	17940.000	25.35	25.34	50.69	74.00	-23.31	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



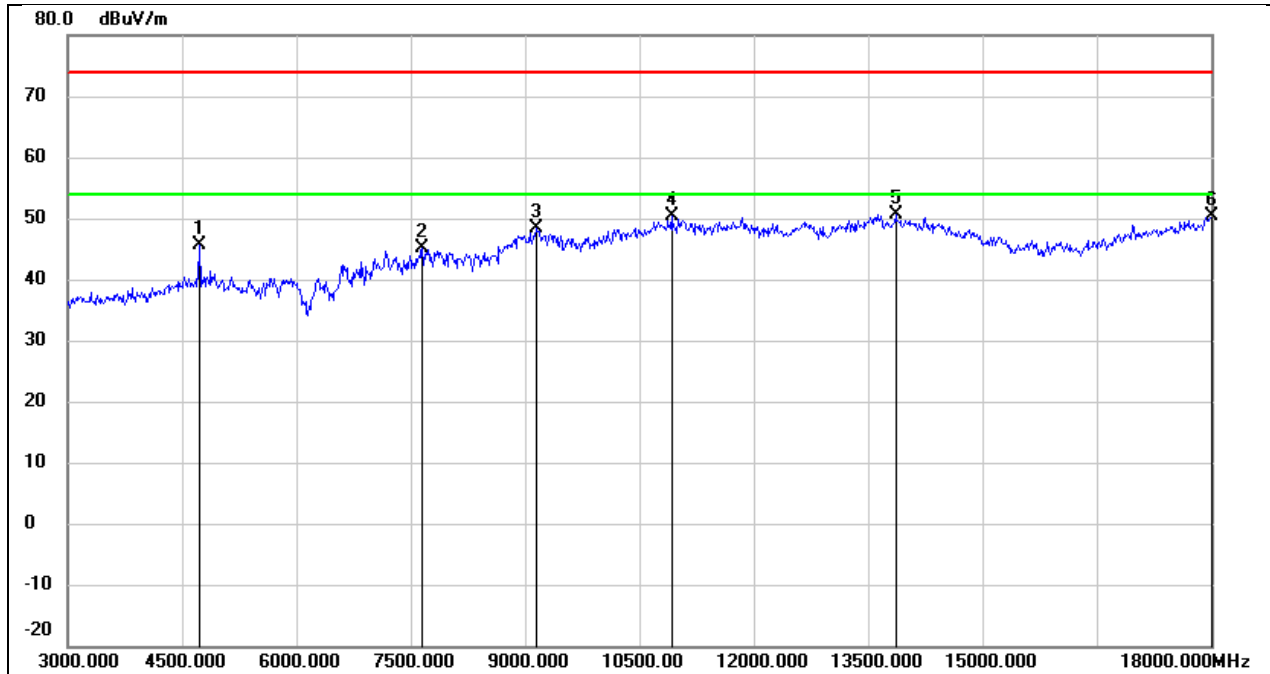
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5655.000	39.74	1.29	41.03	74.00	-32.97	peak
2	7650.000	39.06	6.33	45.39	74.00	-28.61	peak
3	9180.000	37.74	10.56	48.30	74.00	-25.70	peak
4	11835.000	33.00	17.51	50.51	74.00	-23.49	peak
5	13605.000	29.53	21.12	50.65	74.00	-23.35	peak
6	18000.000	24.69	25.69	50.38	74.00	-23.62	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



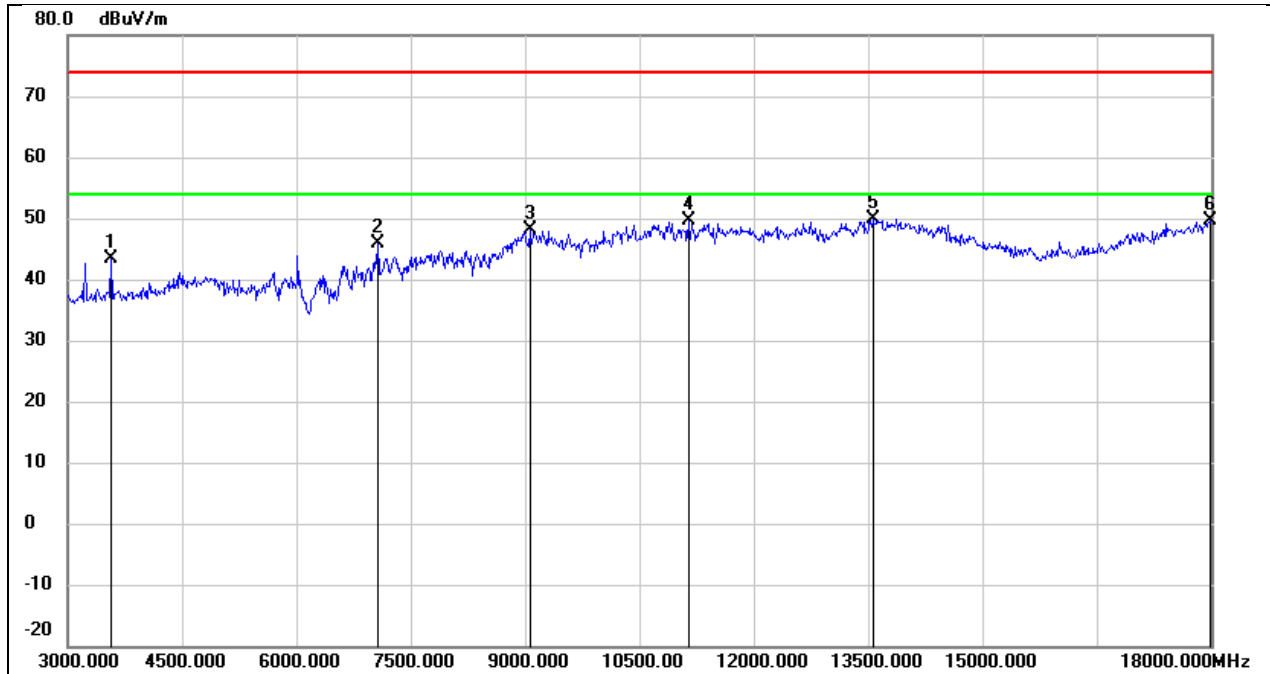
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	41.37	-0.26	41.11	74.00	-32.89	peak
2	7710.000	38.65	6.33	44.98	74.00	-29.02	peak
3	8985.000	37.65	10.37	48.02	74.00	-25.98	peak
4	11010.000	34.24	14.81	49.05	74.00	-24.95	peak
5	13635.000	29.36	21.19	50.55	74.00	-23.45	peak
6	17985.000	24.52	25.60	50.12	74.00	-23.88	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



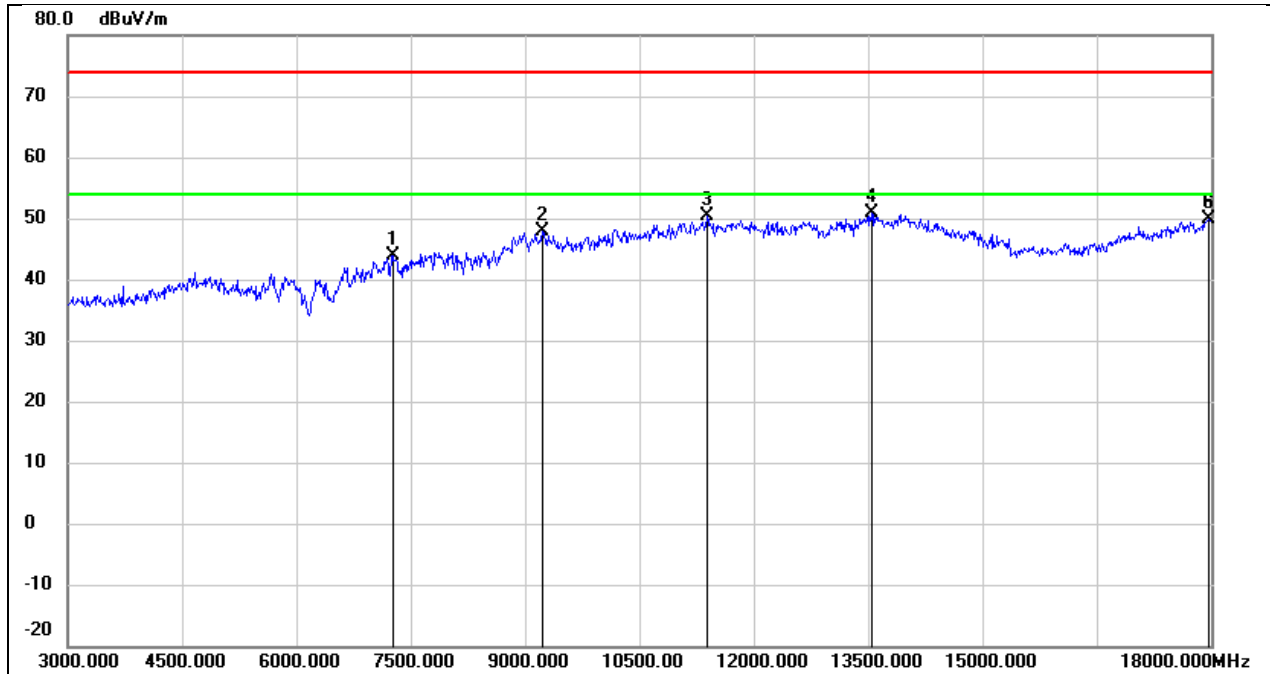
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4725.000	46.10	-0.59	45.51	74.00	-28.49	peak
2	7650.000	38.77	6.33	45.10	74.00	-28.90	peak
3	9150.000	37.89	10.54	48.43	74.00	-25.57	peak
4	10920.000	35.79	14.49	50.28	74.00	-23.72	peak
5	13860.000	29.08	21.67	50.75	74.00	-23.25	peak
6	18000.000	24.64	25.69	50.33	74.00	-23.67	peak

Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



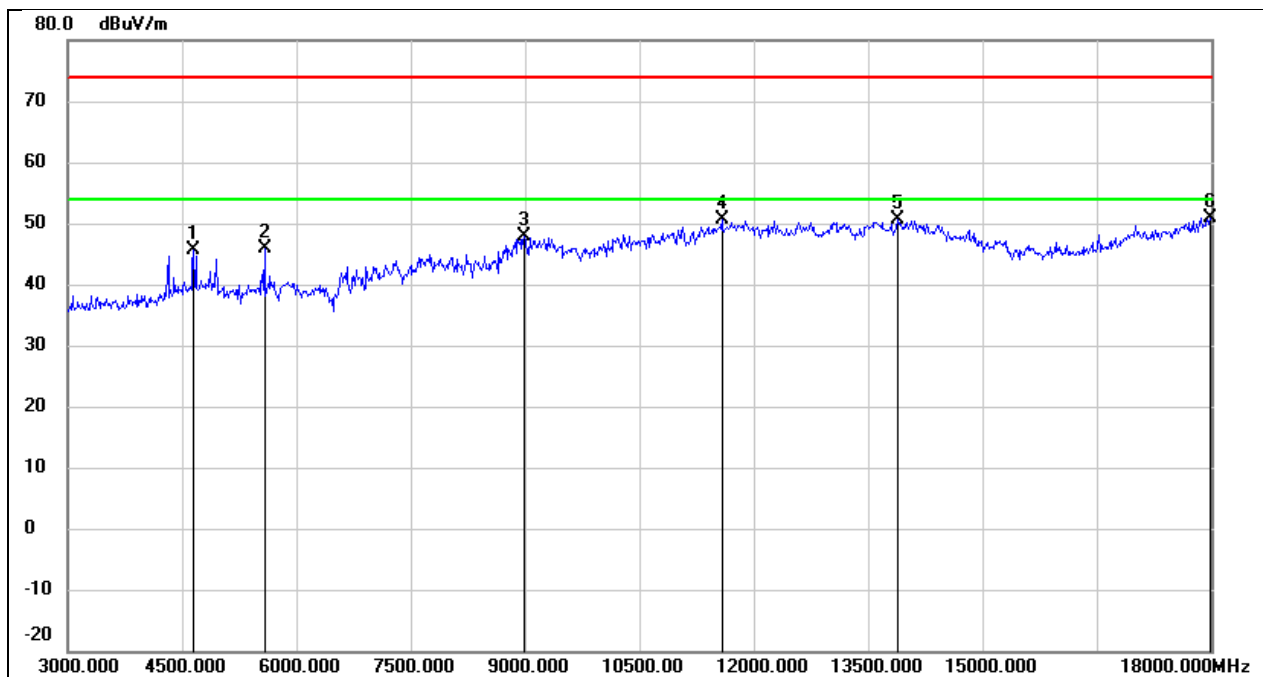
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3570.000	48.23	-4.80	43.43	74.00	-30.57	peak
2	7065.000	39.17	6.64	45.81	74.00	-28.19	peak
3	9060.000	37.56	10.51	48.07	74.00	-25.93	peak
4	11145.000	34.27	15.31	49.58	74.00	-24.42	peak
5	13560.000	28.75	21.04	49.79	74.00	-24.21	peak
6	17985.000	24.06	25.60	49.66	74.00	-24.34	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 5 V



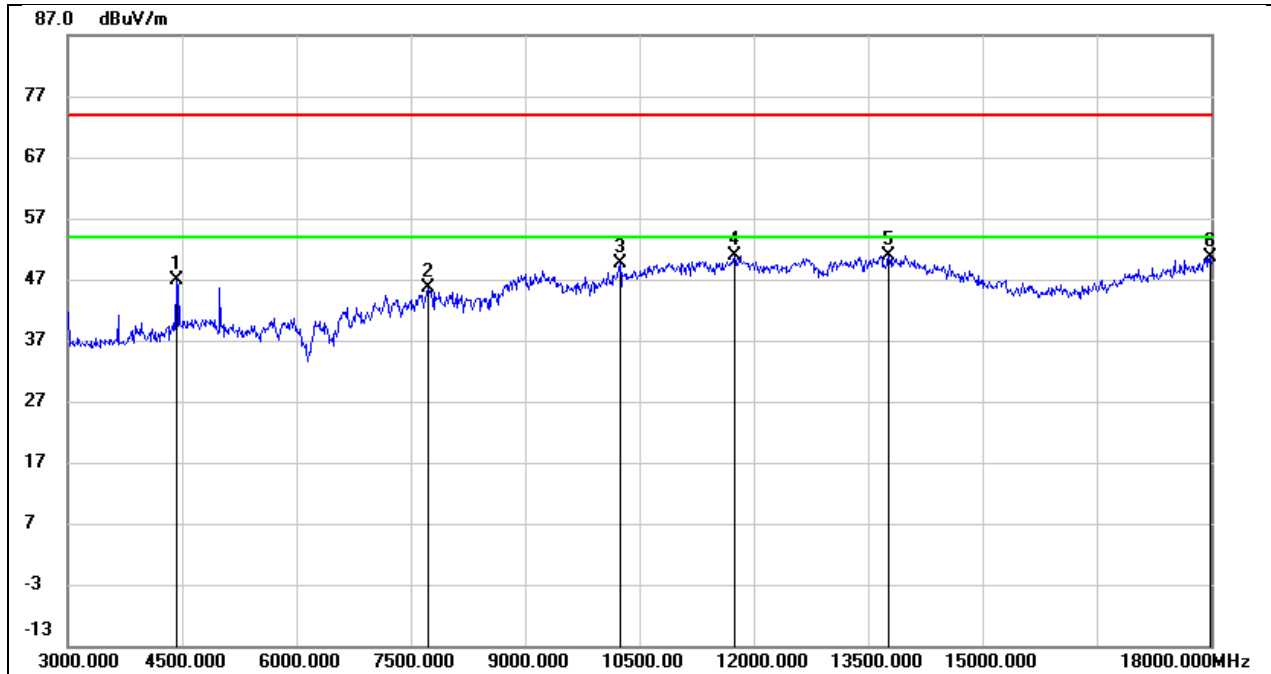
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7260.000	37.48	6.50	43.98	74.00	-30.02	peak
2	9225.000	37.24	10.58	47.82	74.00	-26.18	peak
3	11385.000	34.30	16.17	50.47	74.00	-23.53	peak
4	13545.000	29.97	20.99	50.96	74.00	-23.04	peak
5	17970.000	24.30	25.51	49.81	74.00	-24.19	peak
6	17970.000	24.30	25.51	49.81	74.00	-24.19	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5 V



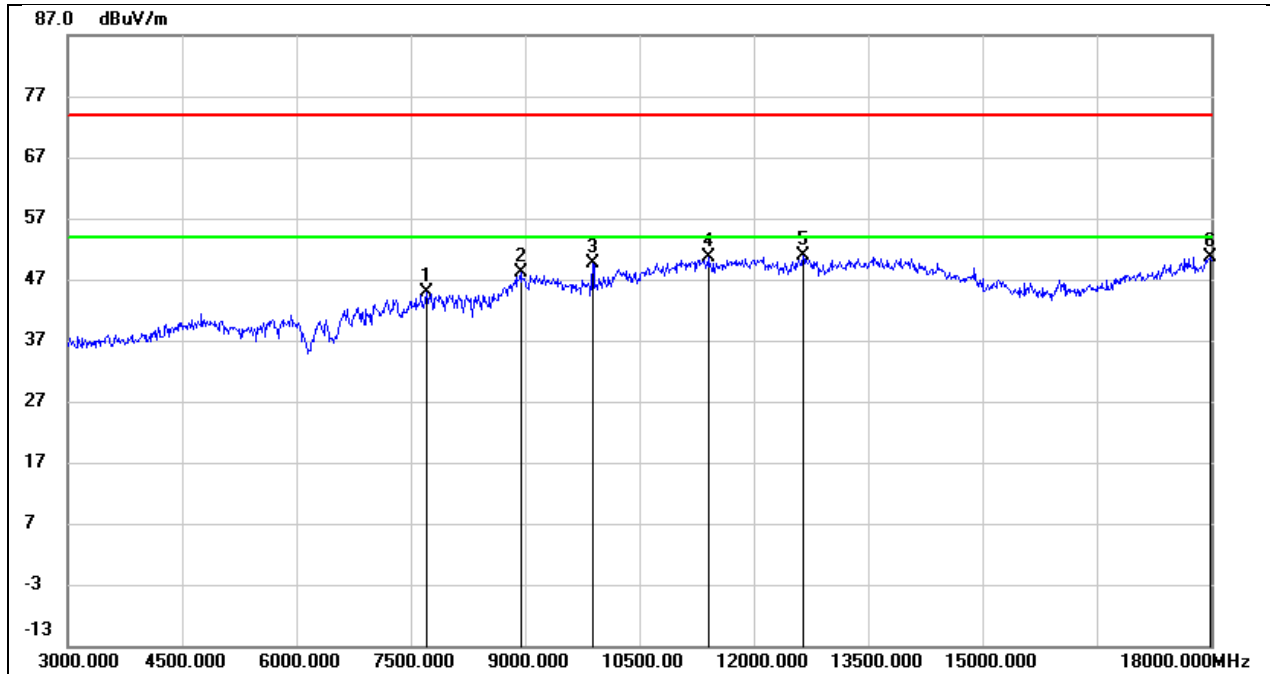
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4650.000	46.50	-0.88	45.62	74.00	-28.38	peak
2	5580.000	44.71	1.08	45.79	74.00	-28.21	peak
3	8985.000	37.50	10.37	47.87	74.00	-26.13	peak
4	11580.000	33.70	16.82	50.52	74.00	-23.48	peak
5	13890.000	28.80	21.72	50.52	74.00	-23.48	peak
6	17985.000	25.37	25.60	50.97	74.00	-23.03	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



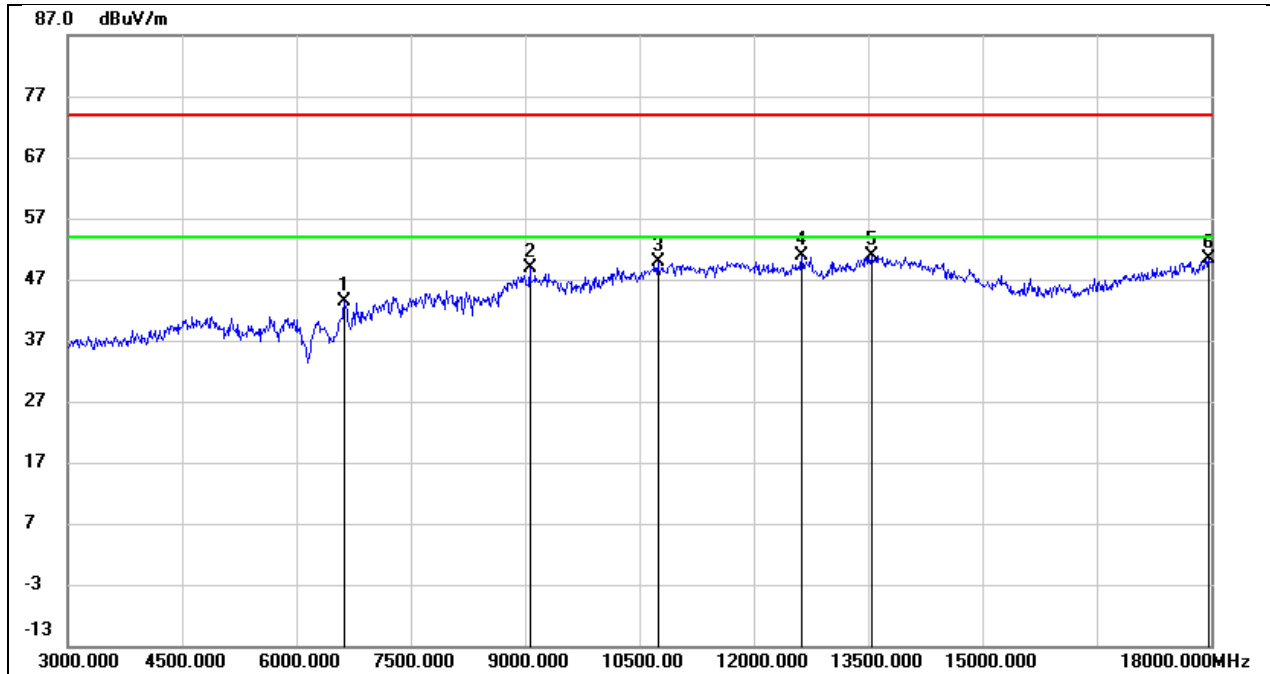
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4425.000	48.71	-1.81	46.90	74.00	-27.10	peak
2	7725.000	39.31	6.32	45.63	74.00	-28.37	peak
3	10245.000	37.08	12.48	49.56	74.00	-24.44	peak
4	11745.000	33.63	17.27	50.90	74.00	-23.10	peak
5	13770.000	29.49	21.47	50.96	74.00	-23.04	peak
6	17985.000	25.03	25.60	50.63	74.00	-23.37	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V



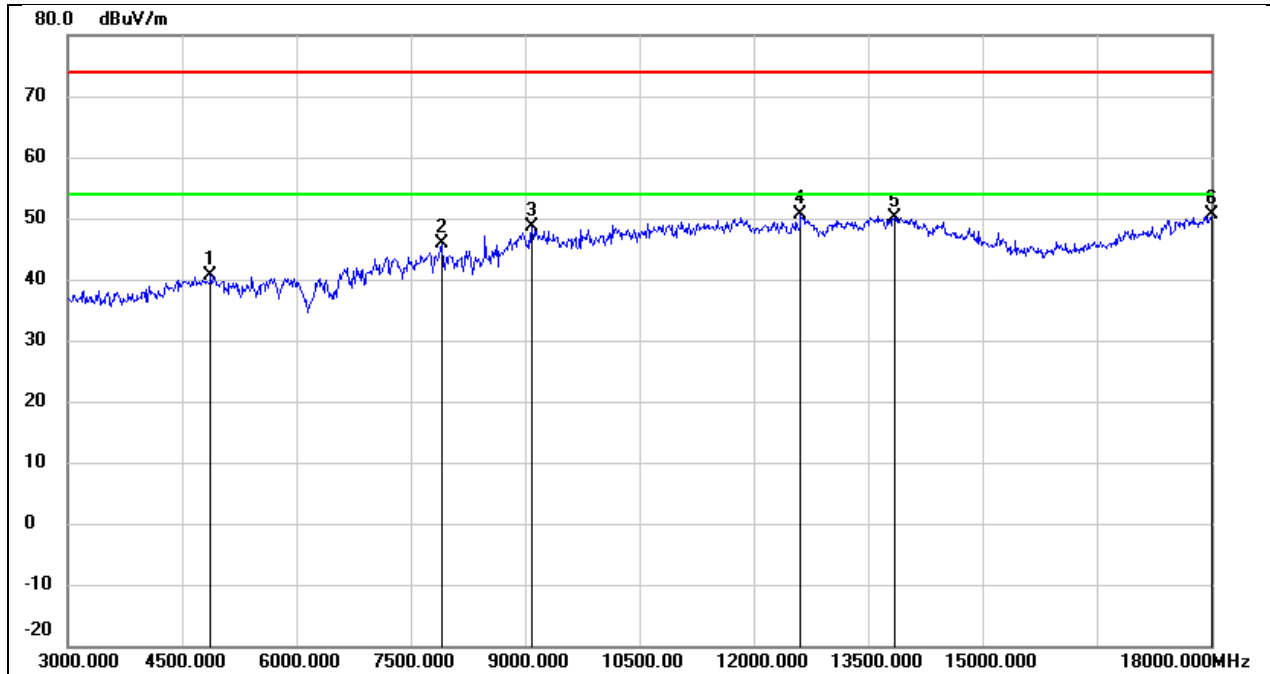
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7710.000	38.55	6.33	44.88	74.00	-29.12	peak
2	8940.000	38.10	10.04	48.14	74.00	-25.86	peak
3	9885.000	37.90	11.71	49.61	74.00	-24.39	peak
4	11400.000	34.29	16.23	50.52	74.00	-23.48	peak
5	12645.000	33.05	17.92	50.97	74.00	-23.03	peak
6	17985.000	25.10	25.60	50.70	74.00	-23.30	peak

Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6630.000	38.52	4.86	43.38	74.00	-30.62	peak
2	9060.000	38.35	10.51	48.86	74.00	-25.14	peak
3	10740.000	36.01	13.85	49.86	74.00	-24.14	peak
4	12630.000	33.05	17.89	50.94	74.00	-23.06	peak
5	13545.000	29.86	20.99	50.85	74.00	-23.15	peak
6	17970.000	24.83	25.51	50.34	74.00	-23.66	peak

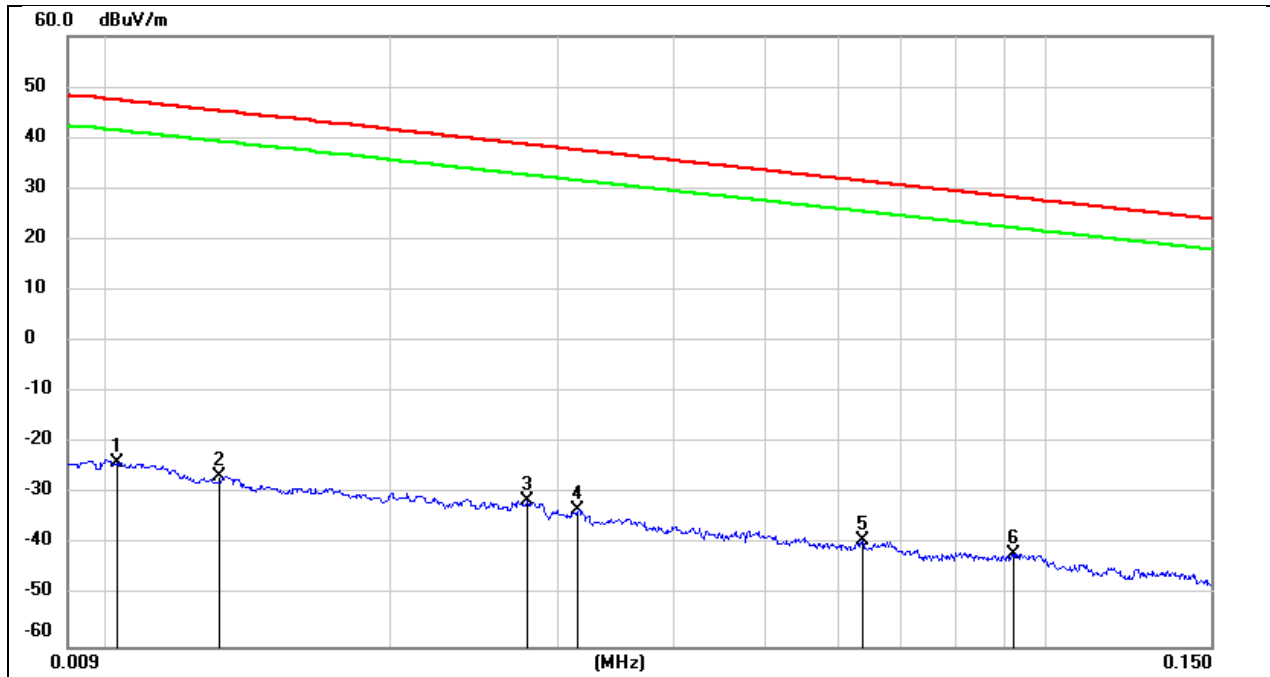
Test Mode:	802.11ax HE40	Frequency(MHz):	2452
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4875.000	40.67	-0.03	40.64	74.00	-33.36	peak
2	7905.000	39.49	6.31	45.80	74.00	-28.20	peak
3	9090.000	38.01	10.51	48.52	74.00	-25.48	peak
4	12615.000	32.84	17.86	50.70	74.00	-23.30	peak
5	13845.000	28.53	21.62	50.15	74.00	-23.85	peak
6	18000.000	24.89	25.69	50.58	74.00	-23.42	peak

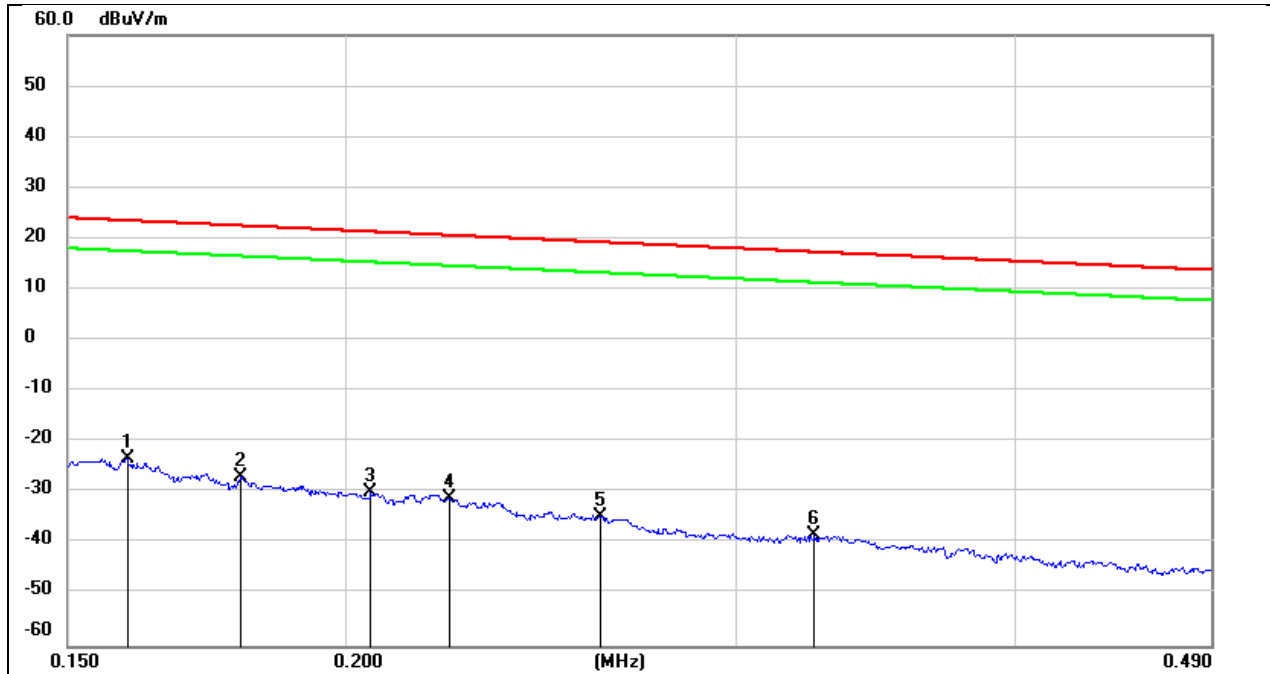
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



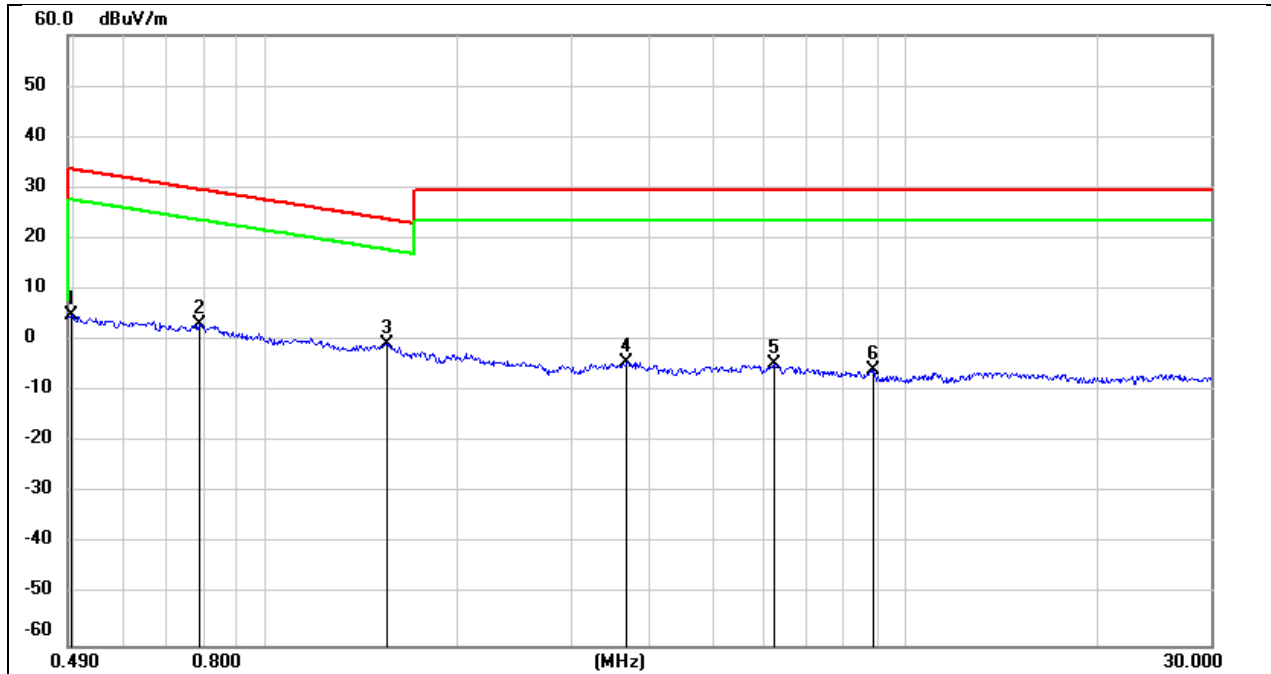
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0102	77.55	-101.40	-23.85	47.43	-75.35	-4.07	-71.28	peak
2	0.0131	74.95	-101.38	-26.43	45.25	-77.93	-6.25	-71.68	peak
3	0.0279	70.17	-101.38	-31.21	38.69	-82.71	-12.81	-69.90	peak
4	0.0316	68.24	-101.40	-33.16	37.61	-84.66	-13.89	-70.77	peak
5	0.0636	62.31	-101.54	-39.23	31.53	-90.73	-19.97	-70.76	peak
6	0.0922	60.01	-101.74	-41.73	28.31	-93.23	-23.19	-70.04	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1595	78.36	-101.65	-23.29	23.55	-74.79	-27.95	-46.84	peak
2	0.1794	74.77	-101.68	-26.91	22.53	-78.41	-28.97	-49.44	peak
3	0.2053	71.80	-101.73	-29.93	21.35	-81.43	-30.15	-51.28	peak
4	0.2227	70.65	-101.75	-31.10	20.65	-82.60	-30.85	-51.75	peak
5	0.2605	67.10	-101.81	-34.71	19.28	-86.21	-32.22	-53.99	peak
6	0.3251	63.71	-101.88	-38.17	17.36	-89.67	-34.14	-55.53	peak

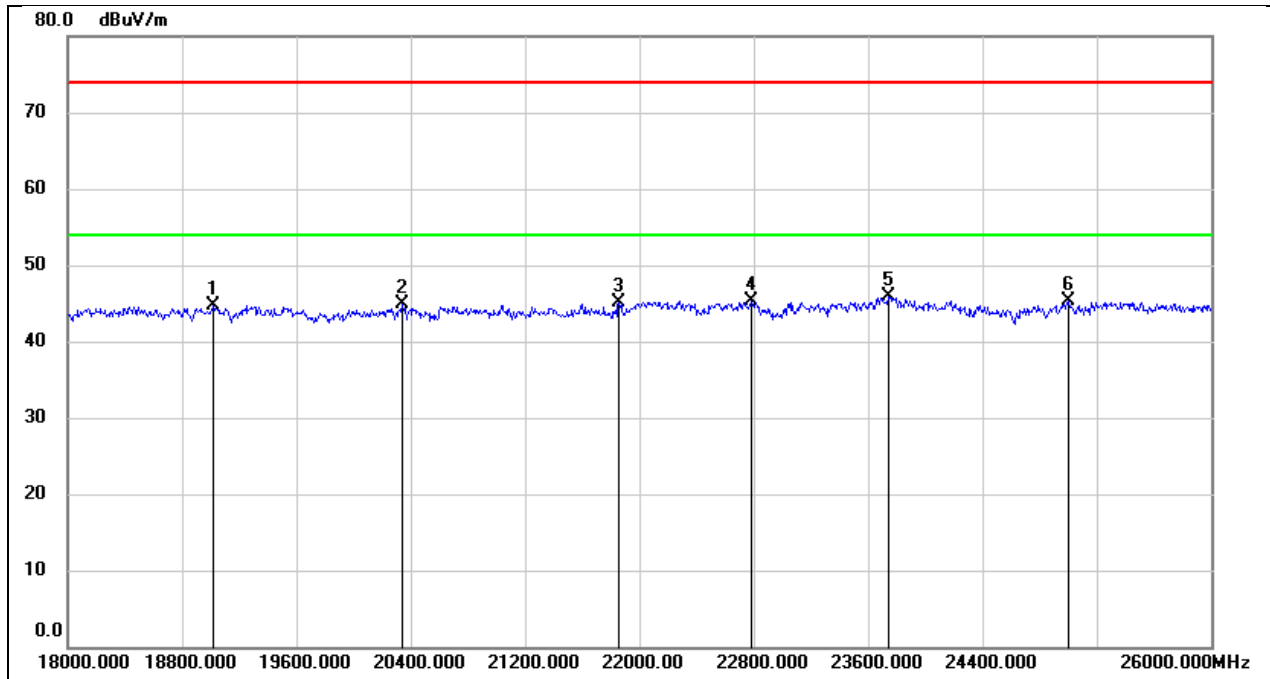
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.4959	67.10	-62.06	5.04	33.70	-46.46	-17.80	-28.66	peak
2	0.7861	65.33	-62.14	3.19	29.69	-48.31	-21.81	-26.50	peak
3	1.5443	61.35	-62.03	-0.68	23.83	-52.18	-27.67	-24.51	peak
4	3.6770	57.04	-61.41	-4.37	29.54	-55.87	-21.96	-33.91	peak
5	6.2445	56.63	-61.32	-4.69	29.54	-56.19	-21.96	-34.23	peak
6	8.9298	55.05	-60.94	-5.89	29.54	-57.39	-21.96	-35.43	peak

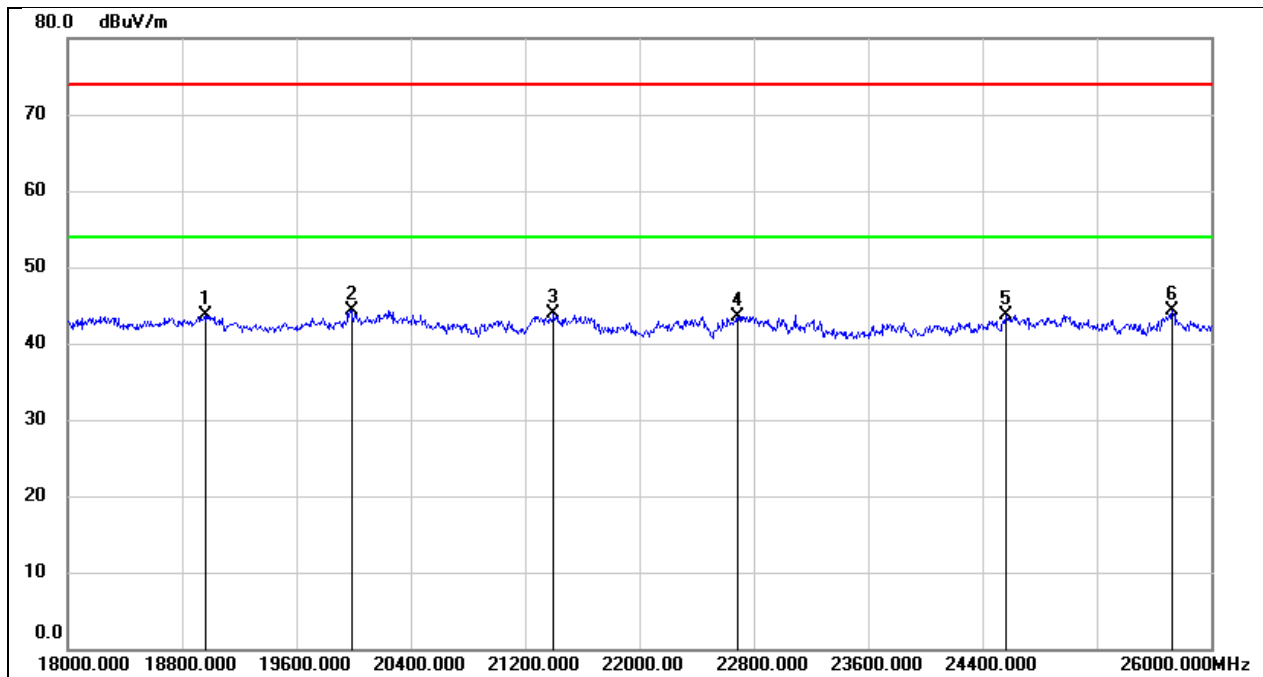
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19016.000	49.93	-5.24	44.69	74.00	-29.31	peak
2	20344.000	50.41	-5.52	44.89	74.00	-29.11	peak
3	21856.000	49.52	-4.39	45.13	74.00	-28.87	peak
4	22784.000	48.98	-3.65	45.33	74.00	-28.67	peak
5	23744.000	49.15	-3.20	45.95	74.00	-28.05	peak
6	25000.000	47.36	-2.10	45.26	74.00	-28.74	peak

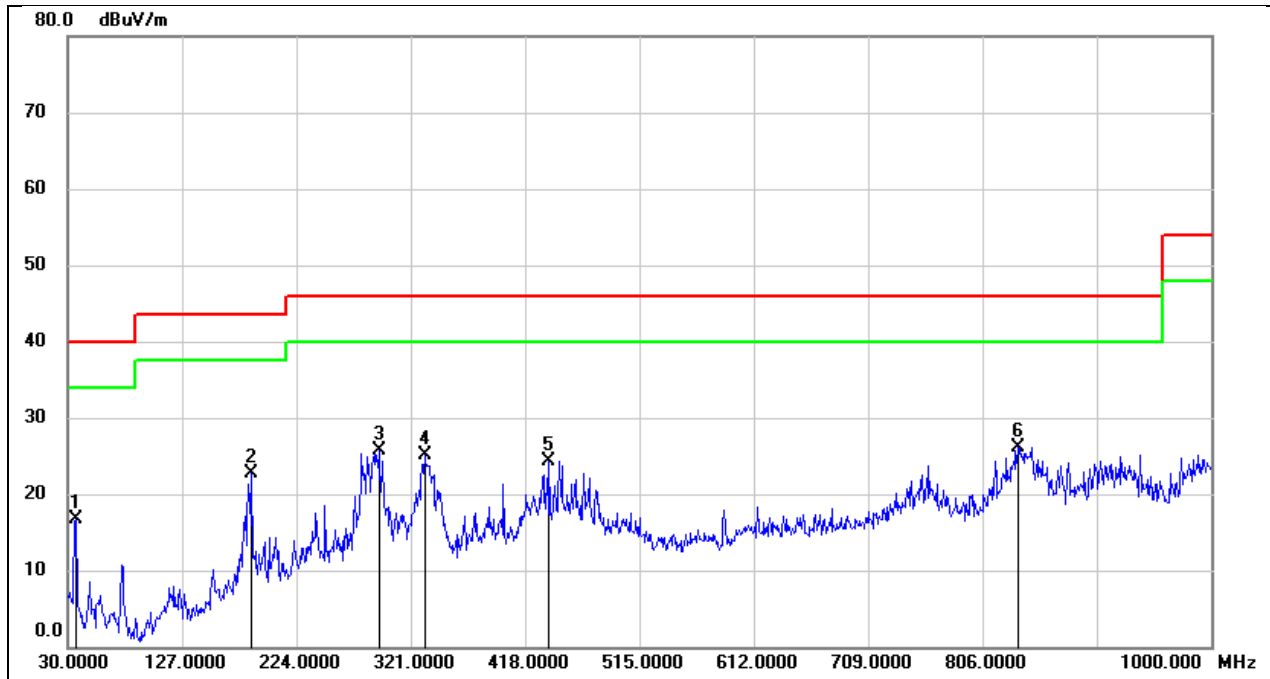
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18960.000	49.01	-5.25	43.76	74.00	-30.24	peak
2	19984.000	49.71	-5.44	44.27	74.00	-29.73	peak
3	21400.000	48.54	-4.72	43.82	74.00	-30.18	peak
4	22688.000	47.32	-3.74	43.58	74.00	-30.42	peak
5	24568.000	46.10	-2.33	43.77	74.00	-30.23	peak
6	25728.000	45.11	-0.72	44.39	74.00	-29.61	peak

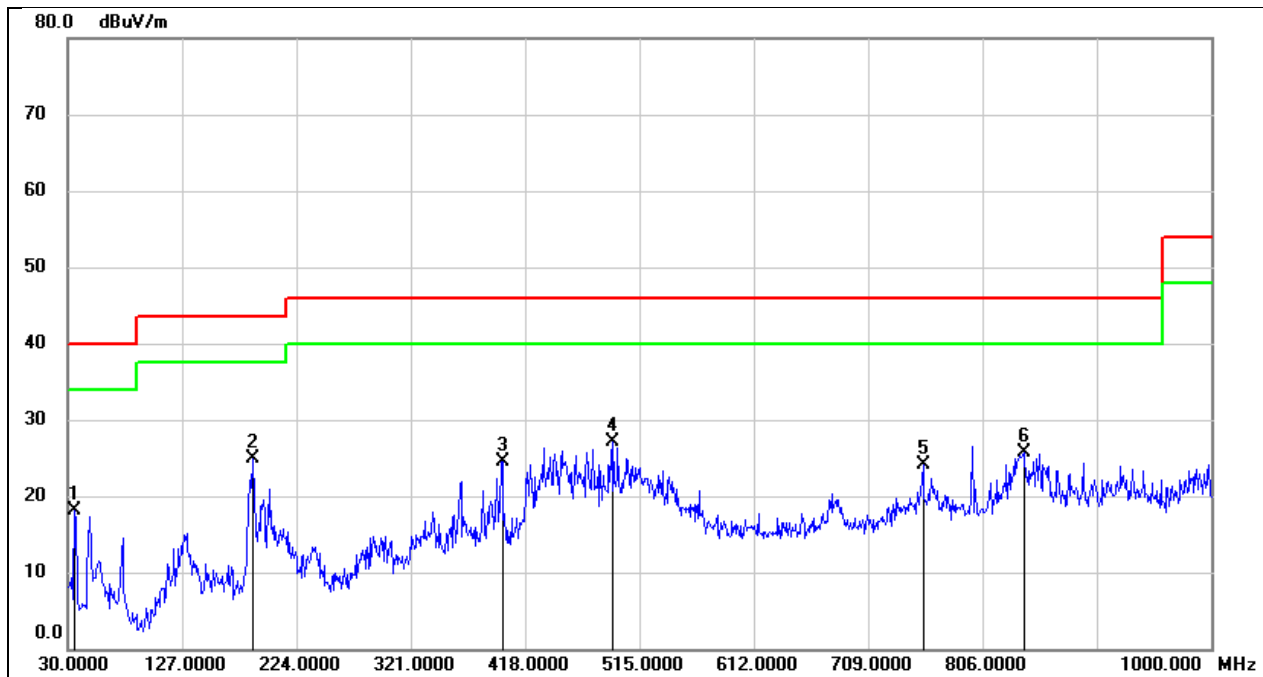
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	36.7900	36.00	-19.30	16.70	40.00	-23.30	QP
2	186.1700	39.27	-16.63	22.64	43.50	-20.86	QP
3	293.8400	41.33	-15.66	25.67	46.00	-20.33	QP
4	332.6400	38.91	-13.74	25.17	46.00	-20.83	QP
5	438.3700	36.39	-12.00	24.39	46.00	-21.61	QP
6	836.0700	32.55	-6.37	26.18	46.00	-19.82	QP

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35.8200	37.24	-19.15	18.09	40.00	-21.91	QP
2	187.1400	41.57	-16.64	24.93	43.50	-18.57	QP
3	398.6000	37.42	-12.95	24.47	46.00	-21.53	QP
4	492.6900	37.94	-10.86	27.08	46.00	-18.92	QP
5	755.5600	31.20	-7.03	24.17	46.00	-21.83	QP
6	840.9200	32.01	-6.33	25.68	46.00	-20.32	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 ISED RSS-Gen Clause 8.8

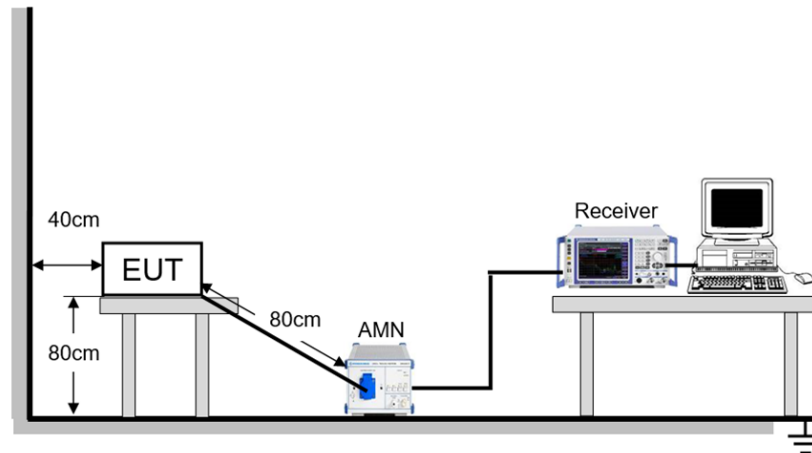
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

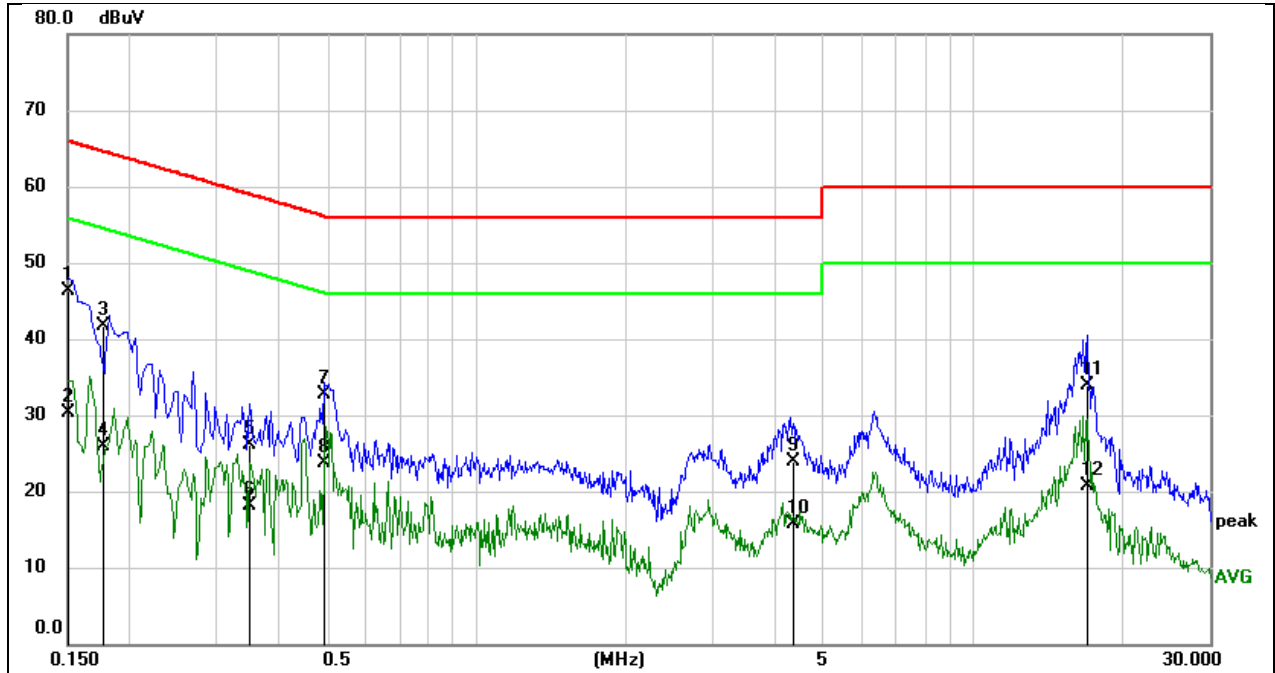
Temperature	23.5°C	Relative Humidity	56.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	November 20, 2023	Test By	Eason He
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TEST RESULTS

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



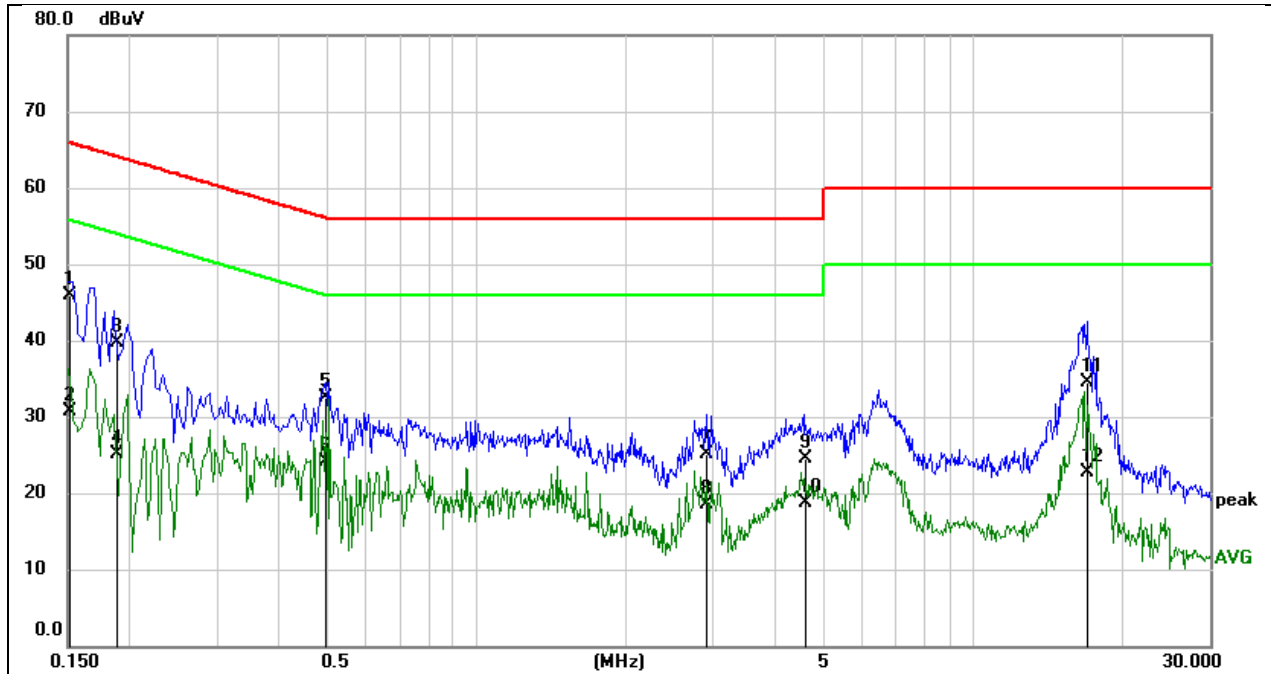
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	36.66	9.59	46.25	66.00	-19.75	QP
2	0.1500	20.78	9.59	30.37	56.00	-25.63	AVG
3	0.1771	32.19	9.59	41.78	64.62	-22.84	QP
4	0.1771	16.28	9.59	25.87	54.62	-28.75	AVG
5	0.3468	16.50	9.59	26.09	59.04	-32.95	QP
6	0.3468	8.55	9.59	18.14	49.04	-30.90	AVG
7	0.4972	23.04	9.60	32.64	56.05	-23.41	QP
8	0.4972	14.08	9.60	23.68	46.05	-22.37	AVG
9	4.3570	14.27	9.70	23.97	56.00	-32.03	QP
10	4.3570	6.02	9.70	15.72	46.00	-30.28	AVG
11	16.9346	24.13	9.77	33.90	60.00	-26.10	QP
12	16.9346	10.93	9.77	20.70	50.00	-29.30	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	0.1516	36.44	9.49	45.93	65.91	-19.98	QP
2	0.1516	21.30	9.49	30.79	55.91	-25.12	AVG
3	0.1884	30.09	9.57	39.66	64.11	-24.45	QP
4	0.1884	15.48	9.57	25.05	54.11	-29.06	AVG
5	0.4983	23.02	9.50	32.52	56.03	-23.51	QP
6	0.4983	14.59	9.50	24.09	46.03	-21.94	AVG
7	2.9042	15.53	9.62	25.15	56.00	-30.85	QP
8	2.9042	8.83	9.62	18.45	46.00	-27.55	AVG
9	4.5994	14.98	9.61	24.59	56.00	-31.41	QP
10	4.5994	9.10	9.61	18.71	46.00	-27.29	AVG
11	16.9401	24.83	9.67	34.50	60.00	-25.50	QP
12	16.9401	12.99	9.67	22.66	50.00	-27.34	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.

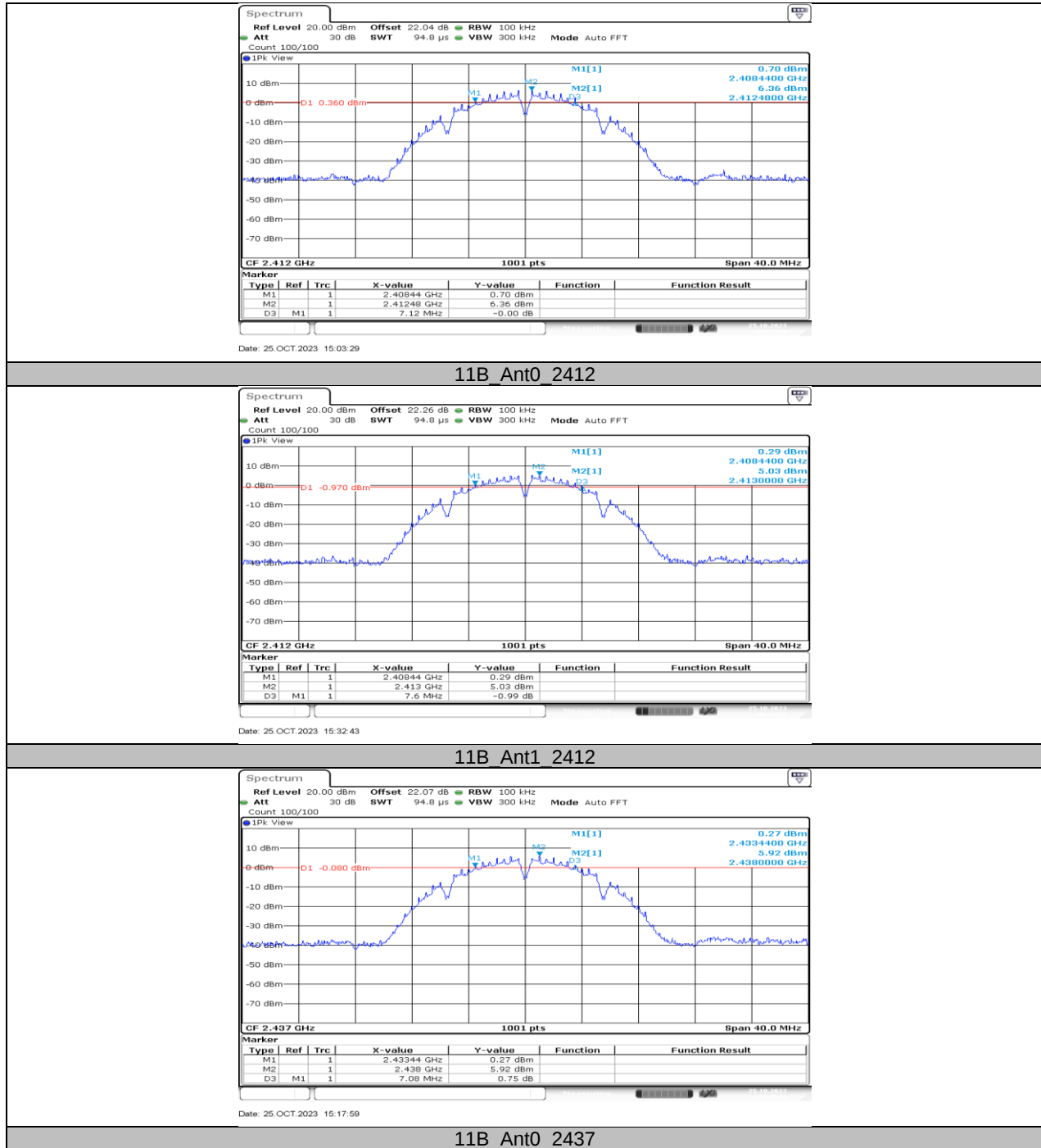
11. TEST DATA

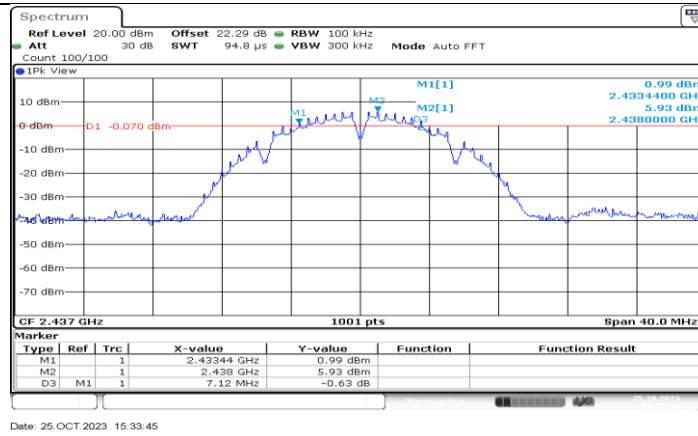
11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

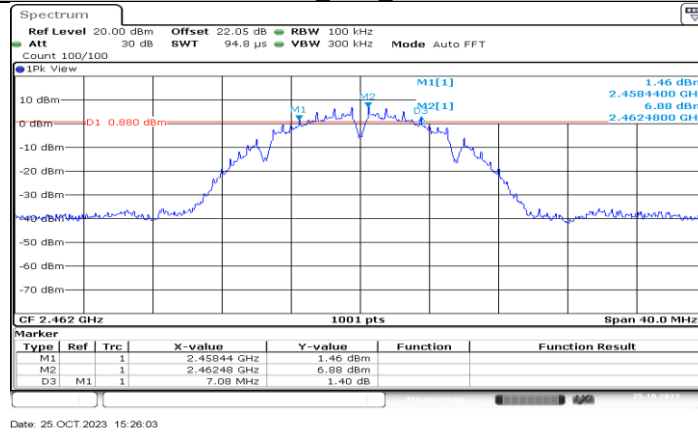
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	7.12	2408.44	2415.56	≥ 0.5	PASS
	Ant1	2412	7.60	2408.44	2416.04	≥ 0.5	PASS
	Ant0	2437	7.08	2433.44	2440.52	≥ 0.5	PASS
	Ant1	2437	7.12	2433.44	2440.56	≥ 0.5	PASS
	Ant0	2462	7.08	2458.44	2465.52	≥ 0.5	PASS
	Ant1	2462	7.12	2458.44	2465.56	≥ 0.5	PASS
11G	Ant0	2412	16.04	2404.08	2420.12	≥ 0.5	PASS
	Ant1	2412	15.08	2404.44	2419.52	≥ 0.5	PASS
	Ant0	2437	16.36	2428.80	2445.16	≥ 0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	≥ 0.5	PASS
	Ant0	2462	15.80	2454.08	2469.88	≥ 0.5	PASS
	Ant1	2462	15.20	2454.36	2469.56	≥ 0.5	PASS
11N20MIMO	Ant0	2412	17.04	2403.48	2420.52	≥ 0.5	PASS
	Ant1	2412	17.16	2403.60	2420.76	≥ 0.5	PASS
	Ant0	2437	15.80	2429.08	2444.88	≥ 0.5	PASS
	Ant1	2437	17.52	2428.24	2445.76	≥ 0.5	PASS
	Ant0	2462	15.28	2454.48	2469.76	≥ 0.5	PASS
	Ant1	2462	17.56	2453.20	2470.76	≥ 0.5	PASS
11N40MIMO	Ant0	2422	35.12	2404.48	2439.60	≥ 0.5	PASS
	Ant1	2422	35.12	2404.48	2439.60	≥ 0.5	PASS
	Ant0	2437	35.12	2419.48	2454.60	≥ 0.5	PASS
	Ant1	2437	35.12	2419.48	2454.60	≥ 0.5	PASS
	Ant0	2452	35.12	2434.48	2469.60	≥ 0.5	PASS
	Ant1	2452	35.12	2434.48	2469.60	≥ 0.5	PASS
11AX20MIMO	Ant0	2412	18.00	2402.80	2420.80	≥ 0.5	PASS
	Ant1	2412	18.00	2402.96	2420.96	≥ 0.5	PASS
	Ant0	2437	18.48	2427.76	2446.24	≥ 0.5	PASS
	Ant1	2437	18.76	2427.56	2446.32	≥ 0.5	PASS
	Ant0	2462	17.20	2453.72	2470.92	≥ 0.5	PASS
	Ant1	2462	17.80	2453.20	2471.00	≥ 0.5	PASS
11AX40MIMO	Ant0	2422	37.36	2403.20	2440.56	≥ 0.5	PASS
	Ant1	2422	37.60	2403.20	2440.80	≥ 0.5	PASS
	Ant0	2437	37.12	2418.44	2455.56	≥ 0.5	PASS
	Ant1	2437	37.60	2418.20	2455.80	≥ 0.5	PASS
	Ant0	2452	37.28	2433.52	2470.80	≥ 0.5	PASS
	Ant1	2452	37.60	2433.20	2470.80	≥ 0.5	PASS

11.1.2. Test Graphs

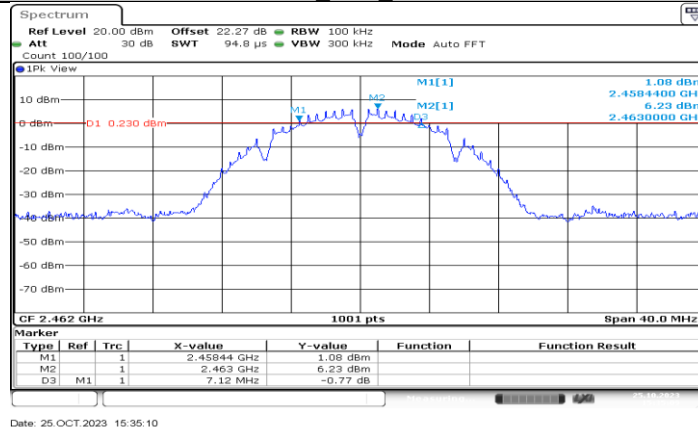




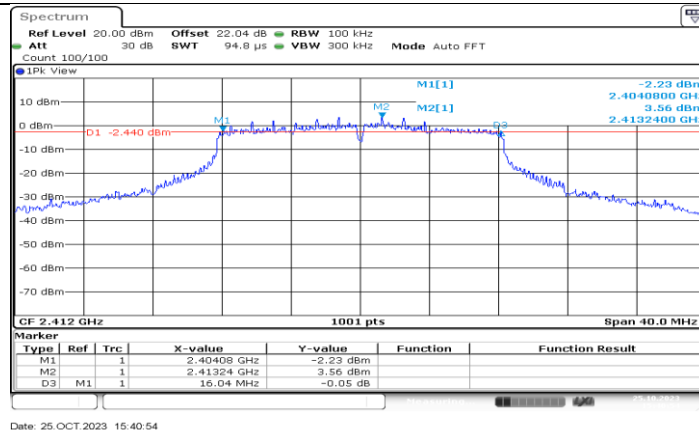
11B_Ant1_2437



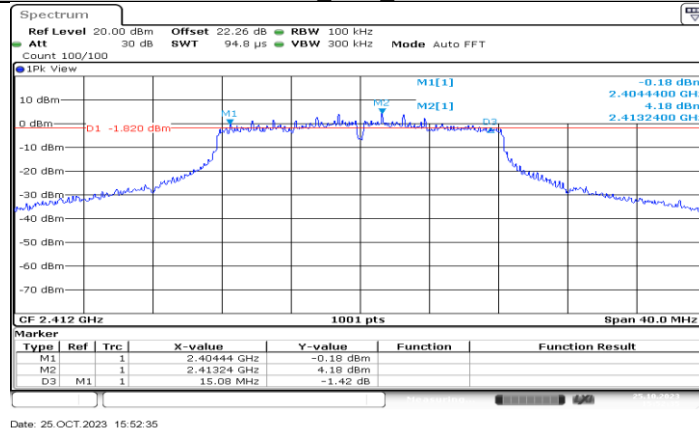
11B_Ant0_2462



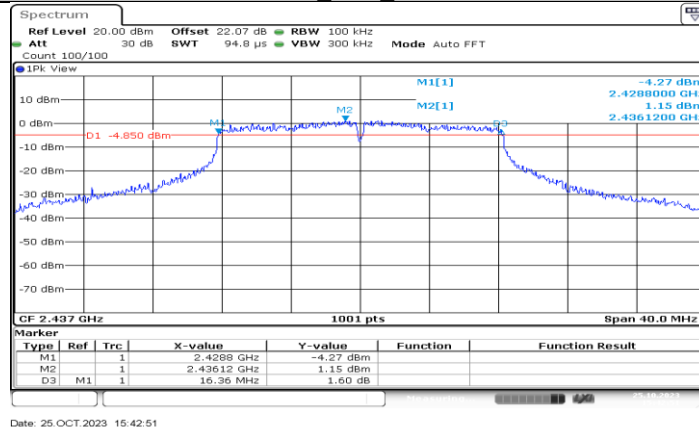
11B_Ant1_2462



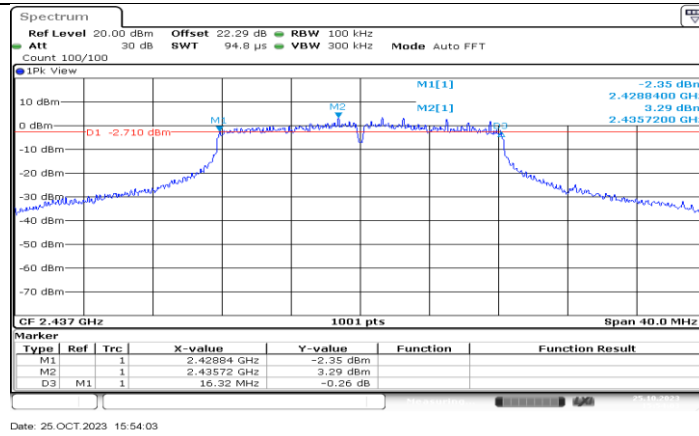
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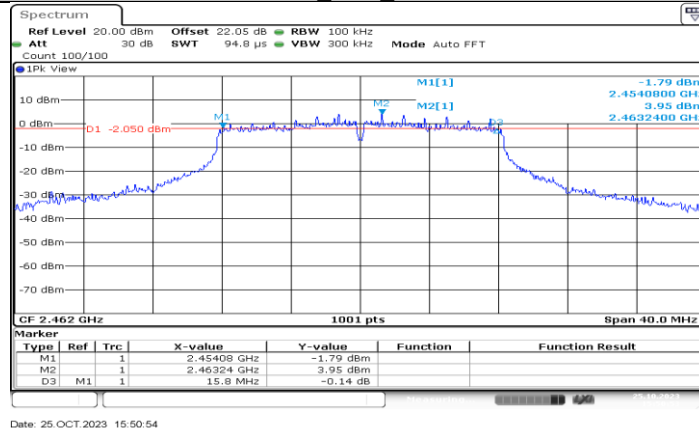
11G_Ant1_2412



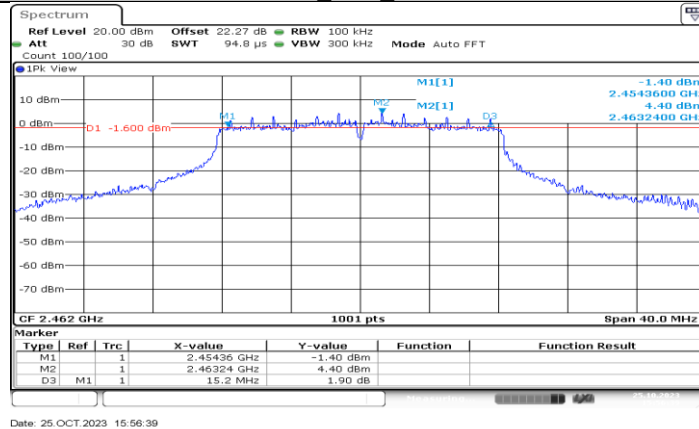
11G_Ant0_2437



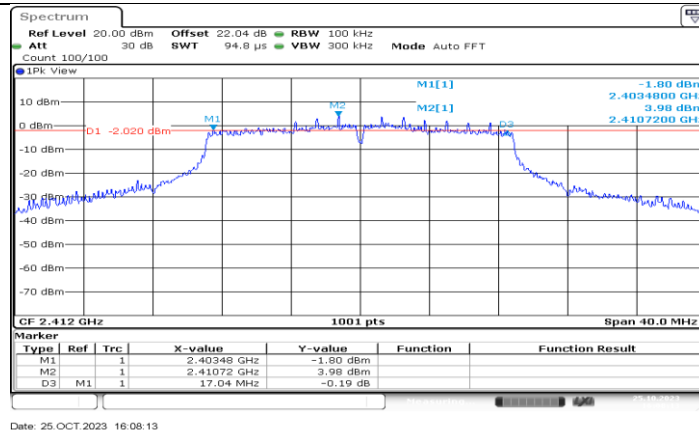
11G Ant1 2437



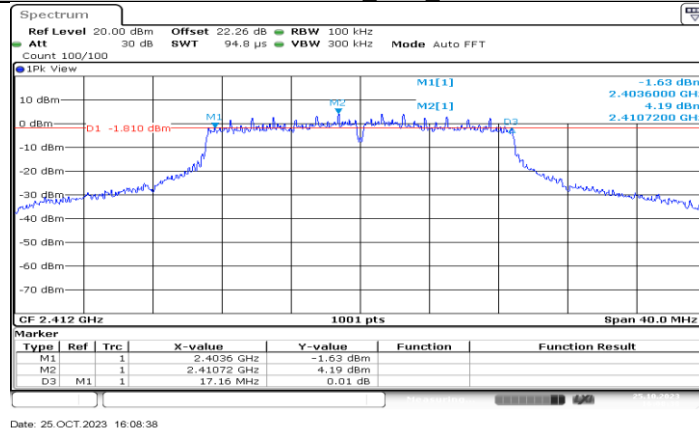
11G Ant0 2462



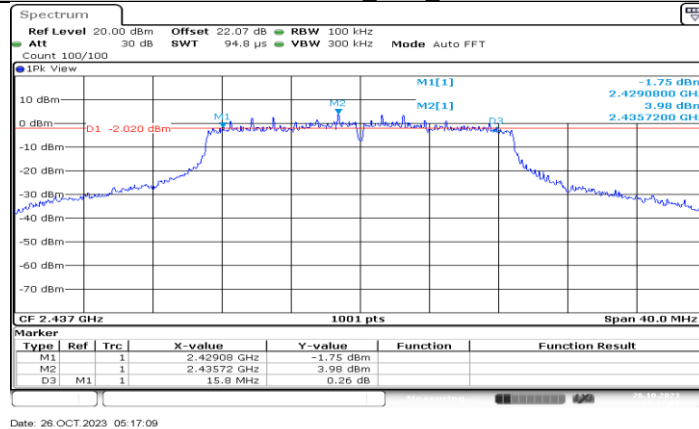
11G Ant1 2462



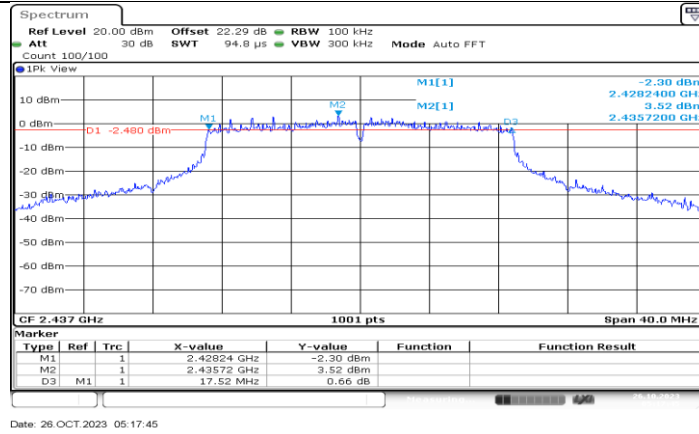
11N20MIMO_Ant0_2412



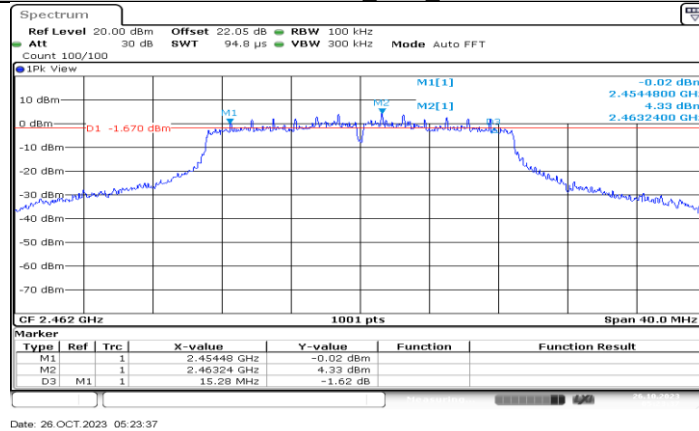
11N20MIMO_Ant1_2412



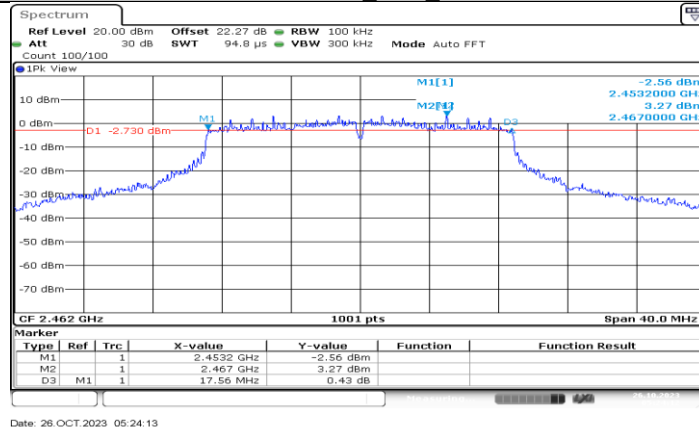
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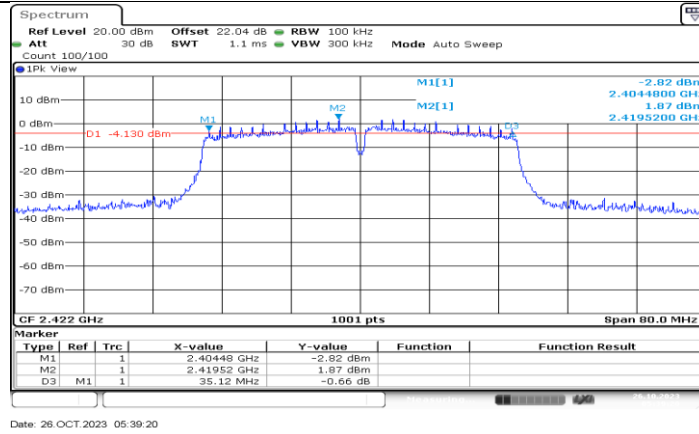
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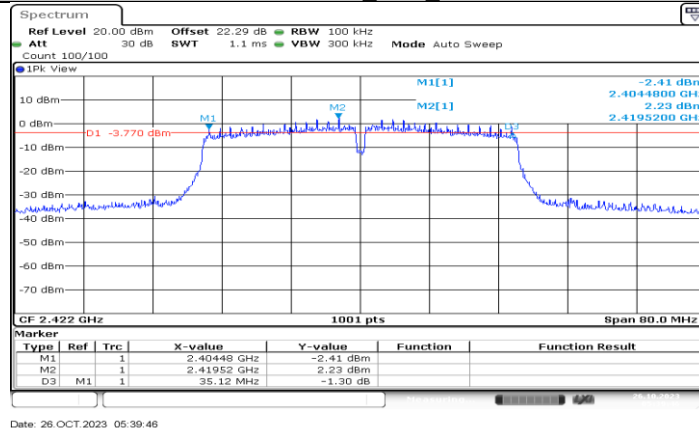
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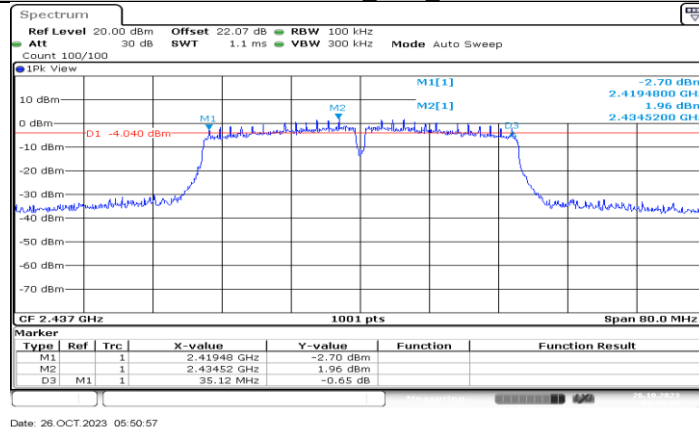
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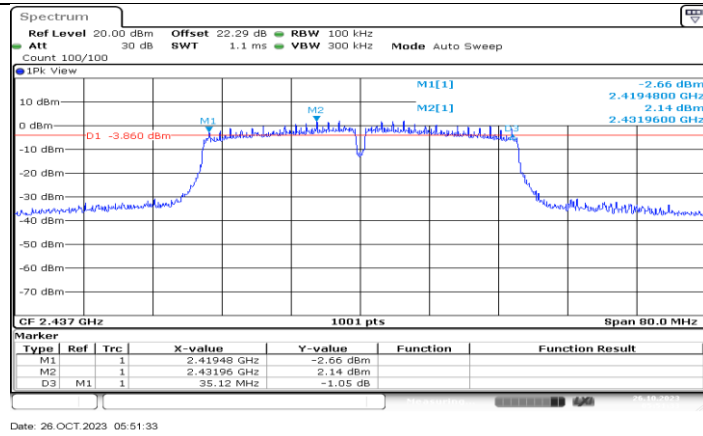
11N40MIMO_Ant0_2422



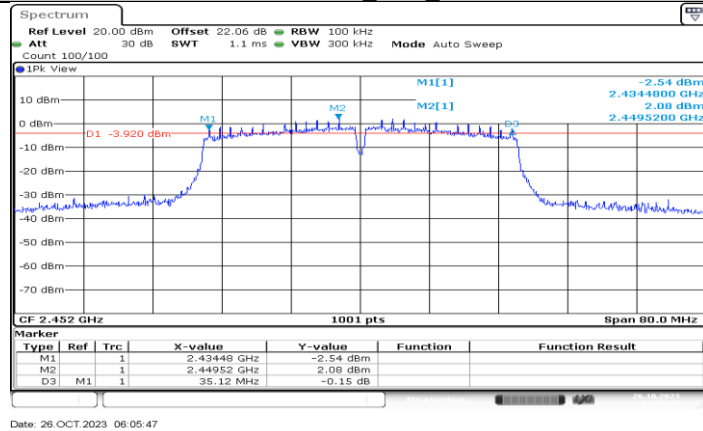
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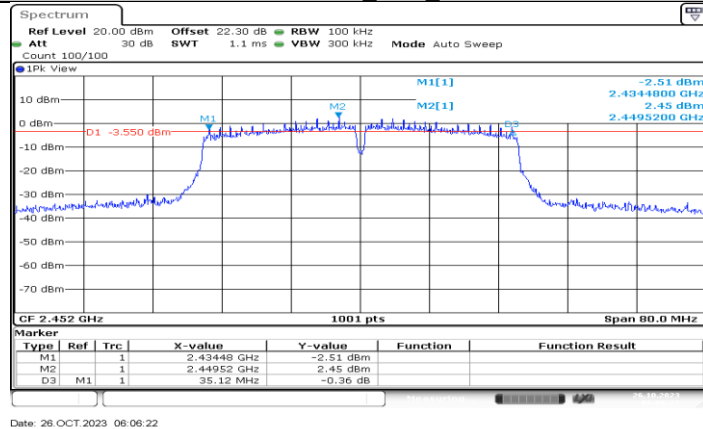
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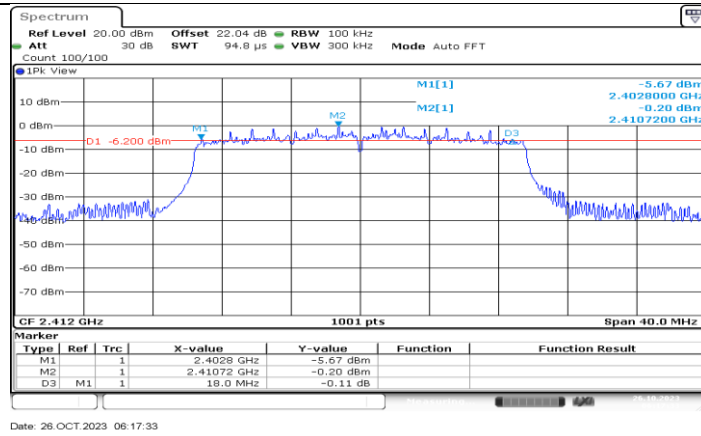
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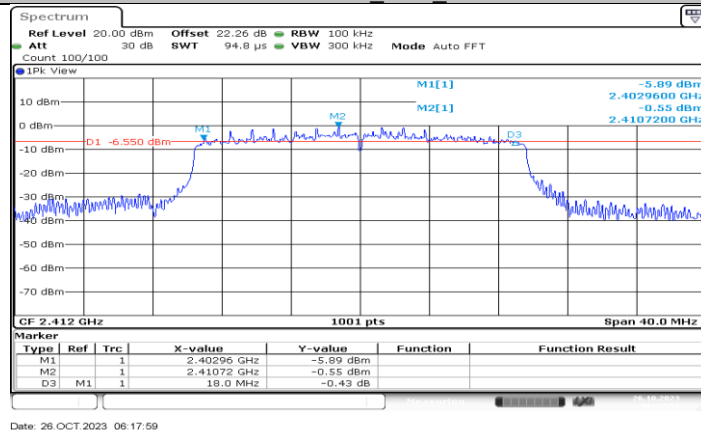
11N40MIMO_Ant0_2452



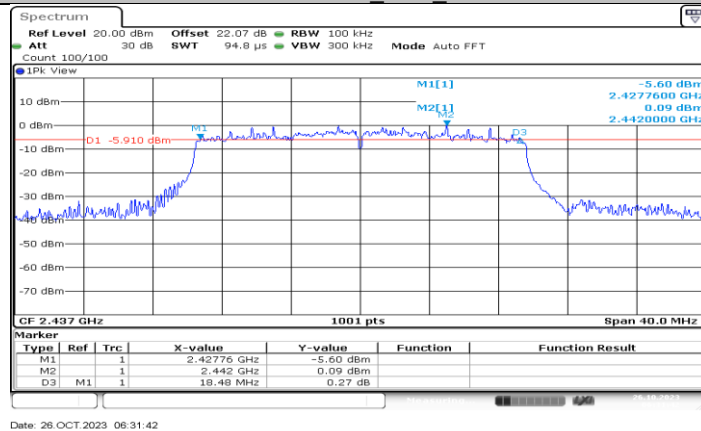
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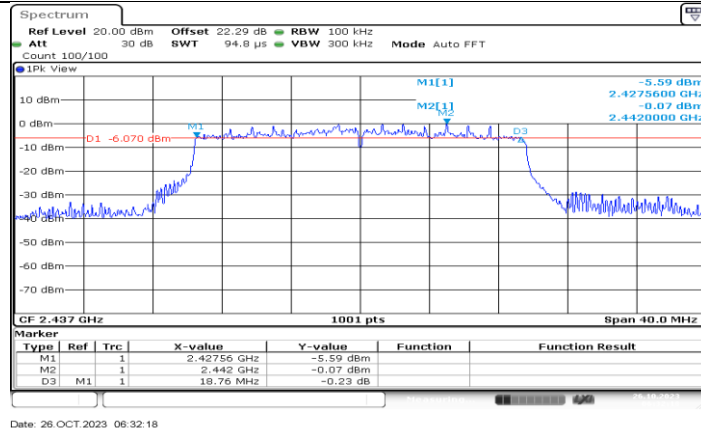
11AX20MIMO_Ant0_2412



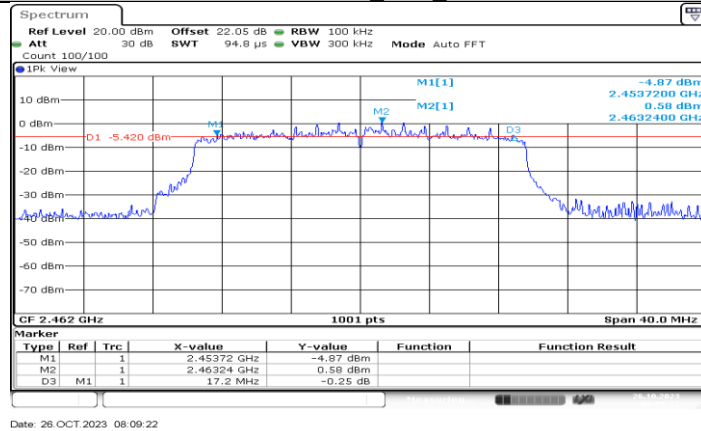
11AX20MIMO_Ant1_2412



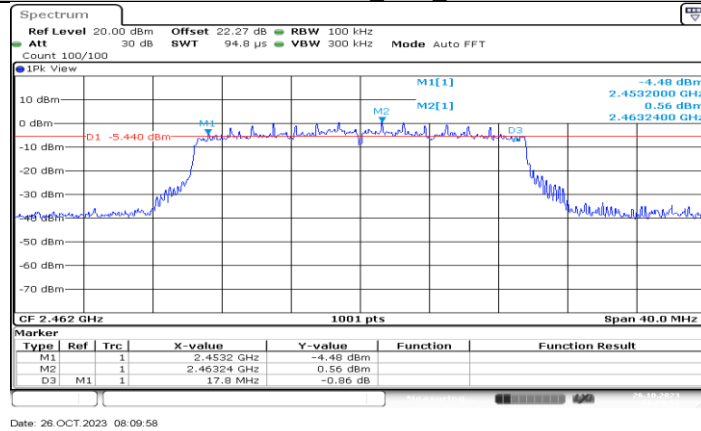
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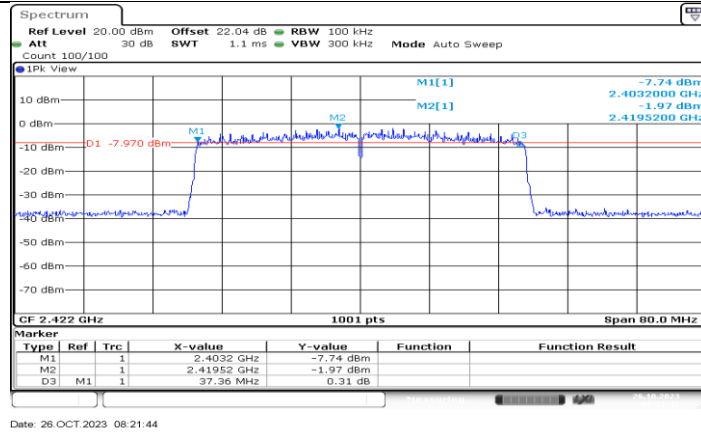
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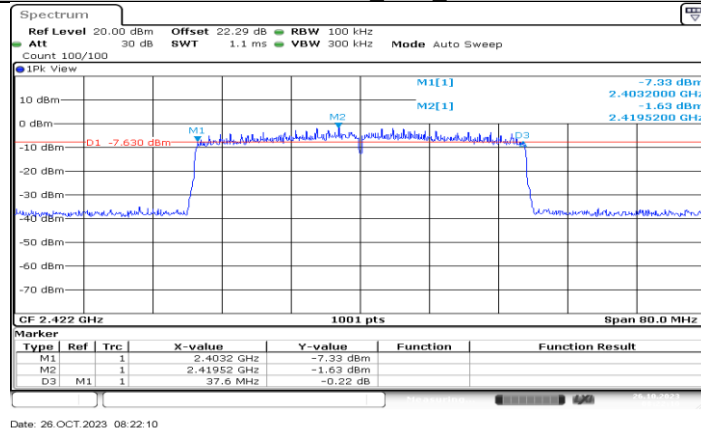
11AX20MIMO_Ant0_2462



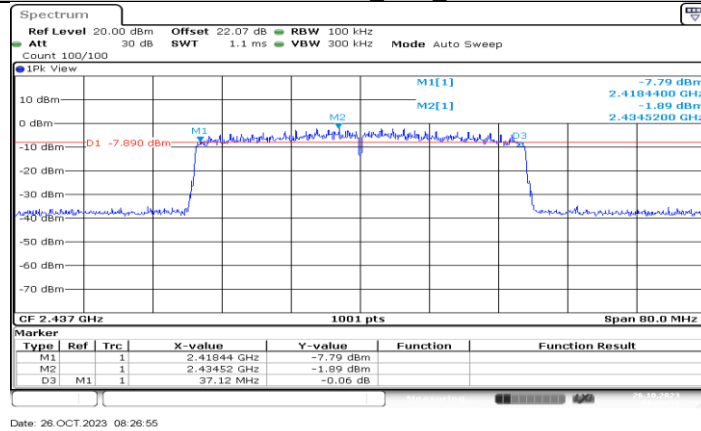
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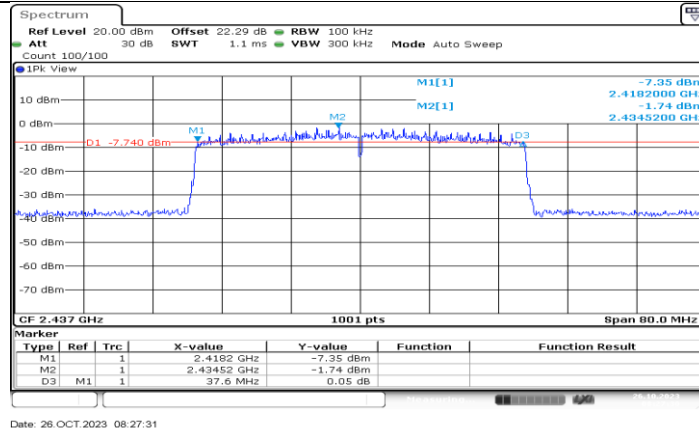
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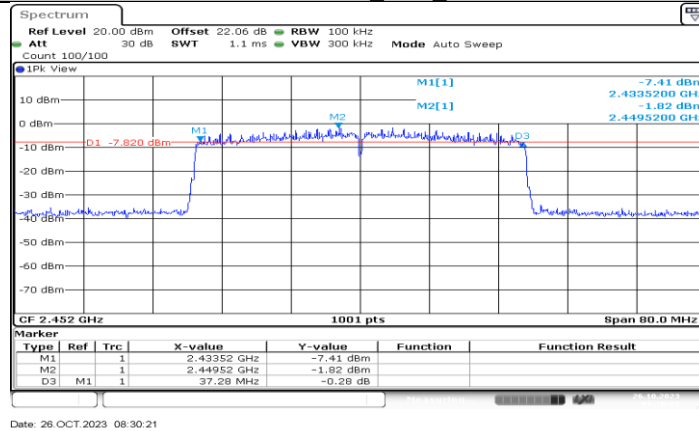
11AX40MIMO_Ant1_2422



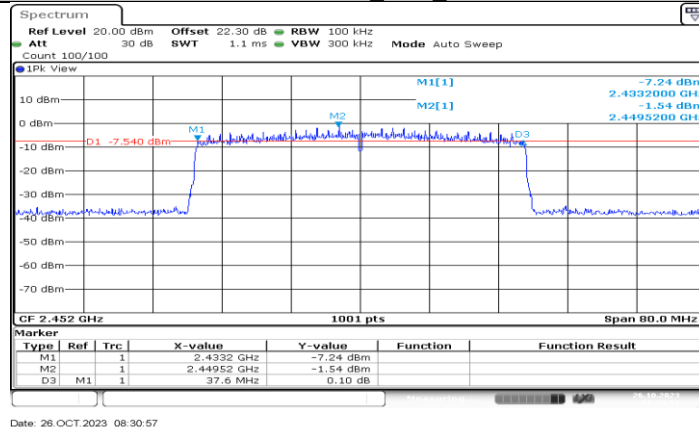
11AX40MIMO_Ant0_2437



11AX40MIMO_Ant1_2437



11AX40MIMO_Ant0_2452



11AX40MIMO_Ant1_2452

11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant0	2412	12.787	2405.6464	2418.4336	PASS
	Ant1	2412	12.787	2405.6464	2418.4336	PASS
	Ant0	2437	12.747	2430.6464	2443.3936	PASS
	Ant1	2437	12.747	2430.6464	2443.3936	PASS
	Ant0	2462	12.747	2455.6464	2468.3936	PASS
	Ant1	2462	12.747	2455.6464	2468.3936	PASS
11G	Ant0	2412	18.701	2402.6094	2421.3107	PASS
	Ant1	2412	18.741	2402.5694	2421.3107	PASS
	Ant0	2437	18.701	2427.6094	2446.3107	PASS
	Ant1	2437	18.741	2427.5694	2446.3107	PASS
	Ant0	2462	18.741	2452.5694	2471.3107	PASS
	Ant1	2462	18.821	2452.5295	2471.3506	PASS
11N20MIMO	Ant0	2412	19.66	2402.1698	2421.8302	PASS
	Ant1	2412	18.661	2402.6893	2421.3506	PASS
	Ant0	2437	19.66	2427.1299	2446.7902	PASS
	Ant1	2437	18.621	2427.6893	2446.3107	PASS
	Ant0	2462	19.66	2452.1698	2471.8302	PASS
	Ant1	2462	18.581	2452.7293	2471.3107	PASS
11N40MIMO	Ant0	2422	36.444	2403.8581	2440.3017	PASS
	Ant1	2422	36.444	2403.8581	2440.3017	PASS
	Ant0	2437	36.523	2418.7782	2455.3017	PASS
	Ant1	2437	36.444	2418.8581	2455.3017	PASS
	Ant0	2452	36.763	2433.7782	2470.5415	PASS
	Ant1	2452	36.444	2433.8581	2470.3017	PASS
11AX20MIMO	Ant0	2412	19.301	2402.4096	2421.7103	PASS
	Ant1	2412	19.301	2402.3696	2421.6703	PASS
	Ant0	2437	19.261	2427.3696	2446.6304	PASS
	Ant1	2437	19.181	2427.4096	2446.5904	PASS
	Ant0	2462	19.261	2452.3696	2471.6304	PASS
	Ant1	2462	19.221	2452.4096	2471.6304	PASS
11AX40MIMO	Ant0	2422	37.962	2403.0589	2441.0210	PASS
	Ant1	2422	37.802	2403.1389	2440.9411	PASS
	Ant0	2437	37.722	2418.1389	2455.8611	PASS
	Ant1	2437	37.722	2418.2188	2455.9411	PASS
	Ant0	2452	37.722	2433.1389	2470.8611	PASS
	Ant1	2452	37.722	2433.2188	2470.9411	PASS