



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

TEST REPORT

For

WIFI+BT Module

MODEL NUMBER: WXT5VM2601

REPORT NUMBER: 4791279062-1-RF-3

ISSUE DATE: May 30, 2024

FCC ID: 2AC23-WXT5V IC: 12290A-WXT5V

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 30, 2024	Initial Issue	



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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.5	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.12 & Clause 11.13	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

^{*}This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C><ISED RSS-247 Issue 3> when <Simple Acceptance> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD

Address: No.2, Jin-da Road, Huinan High-tech Industrial Park, Hui-ao

Avenue, Huizhou City, Guangdong, China

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: WXT5VM2601

Brand: GSD

Sample Received Date: April 16, 2024

Sample Status: Normal Sample ID: 7131284

Date of Tested: April 16, 2024 to May 30, 2024

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

Prepared By: Checked By:

Fanny Huang Denny Huang

Engineer Project Associate Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager



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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED 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 ISED RSS-GEN Issue 5

3. FACILITIES AND ACCREDITATION

	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)				
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
Certificate	has been registered and fully described in a report filed with ISED.				
	The Company Number is 21320 and the test lab Conformity Assessment				
	Body Identifier (CABID) is CN0046.				
	VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	has been assessed and proved to be in compliance with VCCI, the				
	Membership No. is 3793.				
	Facility Name:				
	Chamber D, the VCCI registration No. is G-20192 and R-20202				
	Shielding Room B, the VCCI registration No. is C-20153 and T-20155				

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.



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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 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	±0.746 dB (9 kHz ~ 1 GHz)
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	WIFI+BT Module
Model	WXT5VM2601

Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20/11n HT40/ax HE20/ax HE40
Normal Test Voltage:	DC 3.3 V

5.2. CHANNEL LIST

Channel List For Bandwidth=20 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)		
3	2422	5	2432	7	2442	9	2452	
4	2427	6	2437	8	2447	/	/	

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	14.02	17.00
g	2412 ~ 2462	1-11[11]	15.52	18.50
n HT20	2412 ~ 2462	1-11[11]	18.47	21.45
n HT40	2422 ~ 2452	3-9[7]	17.15	20.13
ax HE20	2412 ~ 2462	1-11[11]	16.23	19.21
ax HE40	2422 ~ 2452	3-9[7]	15.08	18.06

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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 Softw	<i>l</i> are		QA Tool						
	Transmit		Test Channel						
Modulation Mode	Antenna	1	NCB: 20MF	łz	N	ICB: 40MHz			
Wiode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9		
000 11h	1	14	14	14					
802.11b	2	14	14	14					
802.11g	1 14 14 14			,					
802.11g	2	14	14	14	/				
802.11n HT20	1	14	14	14					
002.111111120	2	14	14	14	1				
802.11n HT40	1		/		14	14	14		
002.111111140	2		/ 14 1		14	14			
802.11ax HE20	1	14	14	14	,				
OUZ.IIAX MEZU	2	14	14 14 14						
802.11ax HE40	1		/	·	14	14	14		
002.11dX FIE40	2		/		14	14	14		



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5.6. WORST-CASE CONFIGURATIONS

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

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

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

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

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

802.11b/g only support SISO mode.

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

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

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

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

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

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

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

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

The EUT support Cyclic Shift Diversity(CDD), Space Time Coding(STBC), Spartial 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.



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5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PIFA antenna	2.98
2	2412-2462	PIFA antenna	2.50

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 mothed.

For output power measurements:

Directional gain= Gant + Array Gain = 2.98 dBi

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

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

For power spectral density (PSD) measurements:

Directional gain= GANT + Array Gain = 5.99 dBi

Array Gain = 10 log(Nant/Nss) dB. Nant : number of transmit antennas

Nss: number of spatial streams, The worst case directional gain will occur when Nss = 1

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	⊠2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11g	⊠2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	⊠2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	⊠2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	⊠2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	⊠2TX, 2RX	ANT 1 and ANT 2 can be used as transmitting/receiving antenna.

Note:

1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)



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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	/

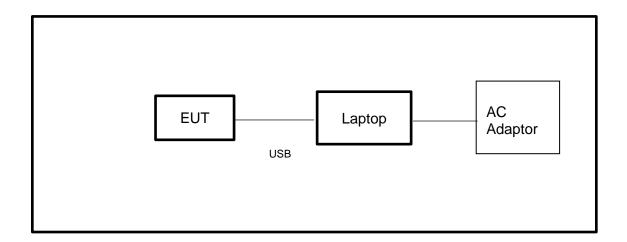
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	1	/

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.

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6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System									
Equipment		Manufac	turer	Model	No.	Serial No.	Last (Cal.	Due. Date
Power sensor, Power M	leter	R&S	3	OSP1	20	100921	Mar.25	,2024	Mar.24,2025
Vector Signal General	tor	R&S	3	SMBV1	00A	261637	Oct.12,	2023	Oct.11, 2024
Signal Generator		R&S	3	SMB10	A00	178553	Oct.12,	2023	Oct.11, 2024
Signal Analyzer		R&S	3	FSV4	10	101118	Oct.12,	2023	Oct.11, 2024
				Softwa	re				
Description		N	/lanuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	m Rol	hde &	Schwar	z	EMC	32		10.60.10
	Tonsend RF Test System								
Equipment	Man	ufacturer	Mod	del No.	S	Serial No.	Last Cal.		Due. Date
Wideband Radio Communication Tester		R&S	СМ	W500		155523	Oct.12,	2023	Oct.11, 2024
Wireless Connectivity Tester		R&S	СМ	W270	120	1.0002N75- 102	Sep.25,	2023	Sep.24, 2024
PXA Signal Analyzer	Ke	eysight	N9	030A	MY	′55410512	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	eysight	N5	182B	MY	′56200284	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	eysight	N5	172B	MY	′56200301	Oct.12,	2023	Oct.11, 2024
DC power supply	Ke	eysight	E3	642A	MY	′55159130	Oct.12,	2023	Oct.11, 2024
Temperature & Humidity Chamber	SAN	MOOD	SG-8	30-CC-2		2088	Oct.12,	2023	Oct.11, 2024
Attenuator	А	glient	84	495B	28	14a12853	Oct.12,	2023	Oct.11, 2024
RF Control Unit	To	nscend	JS0806-2 23		23E	380620666	Mar.25	,2024	Mar.24,2025
Software									
Description		Manufact	urer	r Name V		Version			
Tonsend SRD Test Syst	tem	Tonser	nd	JS1	120-	3 RF Test S	ystem		V3.2.22

Conducted Emissions Manufacturer Equipment Model No. Serial No. Last Cal. Due Date **EMI Test** R&S ESR3 101961 Oct.13, 2023 Oct.12, 2024 Receiver Two-Line V-R&S **ENV216** 101983 Oct.13, 2023 Oct.12, 2024 Network **Artificial Mains** Schwarzbeck **NSLK 8126** 8126465 Oct.13, 2023 Oct.12, 2024 Networks Software Description Manufacturer Name Version Test Software for Conducted Emissions EZ-EMC Ver. UL-3A1 **Farad**

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	80000	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	
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024	
Software						
[Description		Manufacturer	Name	Version	
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1	



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Other Instrument							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.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		

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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

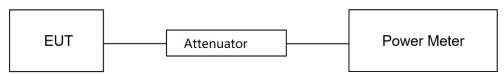
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	26.4℃	Relative Humidity	56.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	May 18, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix C

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7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C 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 % Occupie Bandwidth		For reporting purposes only.	2400-2483.5

TEST PROCEDURE

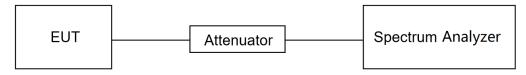
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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
IRRW	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
11/12/1//	For 6 dB Bandwidth: ≥3 x RBW For 99 % Occupied Bandwidth: ≥3 x 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





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TEST ENVIRONMENT

Temperature	26.4 ℃	Relative Humidity	56.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	May 18, 2024	Test By	Johnson Liu
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TEST RESULTS

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

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7.3. POWER SPECTRAL DENSITY

LIMITS

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

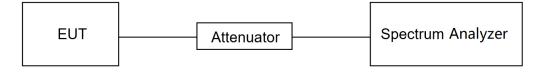
Connect the EUT to the spectrum analyzer and use the following settings:

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

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP





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TEST ENVIRONMENT

Temperature	26.4℃	Relative Humidity	56.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	May 18, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix D



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7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C 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	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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

Change the settings for emission level measurement:

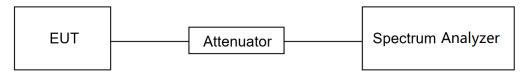
	of chilodoth level medautement.
ISpan	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.



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TEST SETUP



TEST ENVIRONMENT

Temperature	26.4℃	Relative Humidity	56.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

Test Date	May 18, 2024	Test Bv	Johnson Liu
. 551 = 615			• • · · · · • • · · · · · · · · · · · ·

TEST RESULTS

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



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7.5. DUTY CYCLE

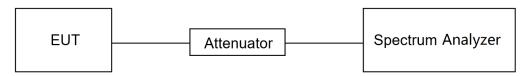
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

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

TEST SETUP



TEST ENVIRONMENT

Temperature	26.4 ℃	Relative Humidity	56.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.3 V

TEST DATE / ENGINEER

	Test Date	May 18, 2024	Test Bv	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix G



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8. RADIATED TEST RESULTS

LIMITS

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

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	Frequency Range Field Strength Limit		th Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-P	eak
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Abovo 1000	500	Peak	Average
Above 1000	500	74	54

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

ISED General field strength limits at frequencies below 30 MHz

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

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



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

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	182.0125 - 187.17	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
8.215 - 8.218	608 - 614	23.6 - 24.0
8.26775 - 6.26825	960 - 1427	31.2 - 31.8
8.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1648.5	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 - 5480	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

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



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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 remeasured. 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.



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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.



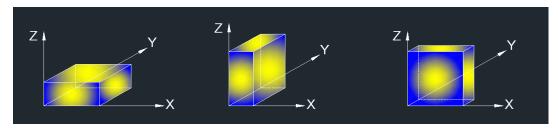
Above 1 GHz

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.



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For Restricted Bandedge:

Note:

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

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

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

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

- 1. Result Level = Read Level + Correct Factor.
- 2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
- 3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

Note:

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

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

Note:

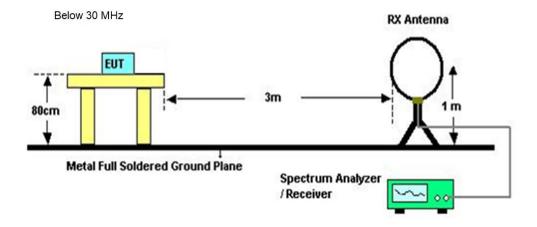
- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration,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

For Radiate Spurious emission (18 GHz ~ 26 GHz):

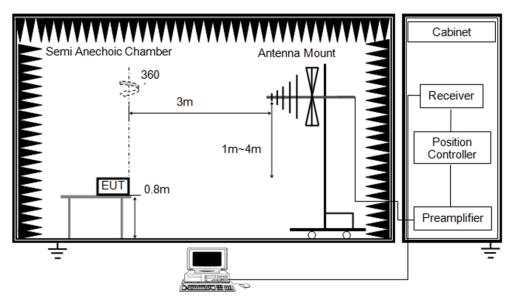
Note:

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

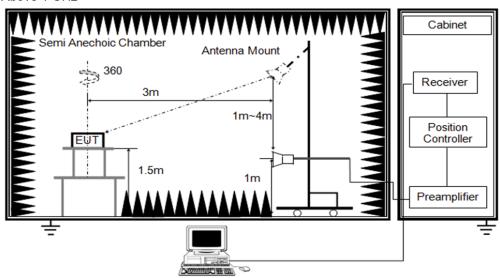
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	23.5℃	Relative Humidity	61.4%
Atmosphere Pressure	101kPa	Test Voltage	

TEST DATE / ENGINEER

Test Date	May 29, 2024	Test Bv	Mason Wang
	1	,	

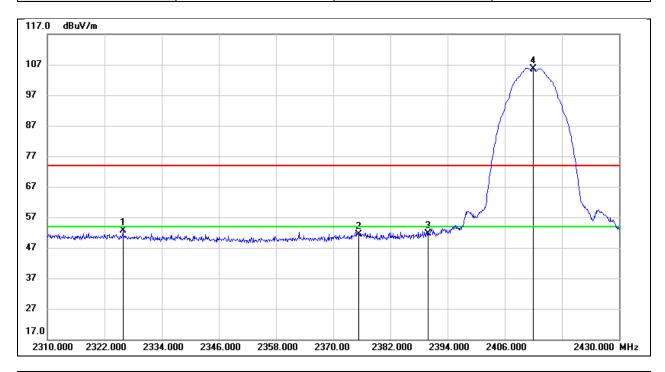
TEST RESULTS



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8.1. RESTRICTED BANDEDGE

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

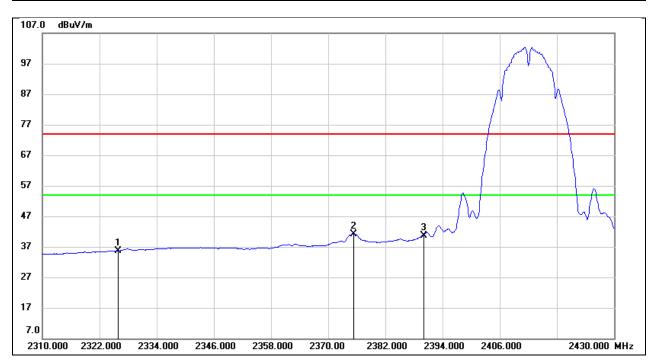


No	ο.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1		2325.840	19.94	32.57	52.51	74.00	-21.49	peak
2		2375.280	18.55	32.85	51.40	74.00	-22.60	peak
3	}	2390.000	18.83	32.92	51.75	74.00	-22.25	peak
4		2412.000	72.59	32.97	105.56	/	/	fundamental



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

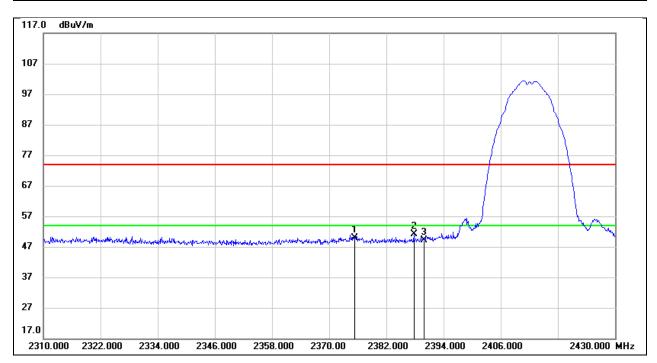


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2325.840	3.09	32.57	35.66	54.00	-18.34	AVG
2	2375.280	8.38	32.85	41.23	54.00	-12.77	AVG
3	2390.000	7.78	32.92	40.70	54.00	-13.30	AVG



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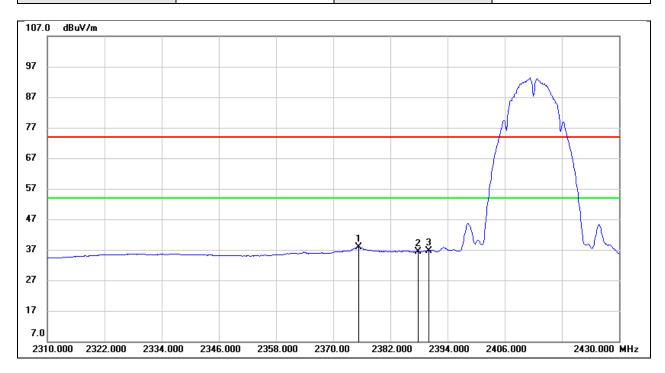
Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.400	16.97	32.85	49.82	74.00	-24.18	peak
2	2387.760	18.12	32.91	51.03	74.00	-22.97	peak
3	2390.000	16.29	32.92	49.21	74.00	-24.79	peak



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

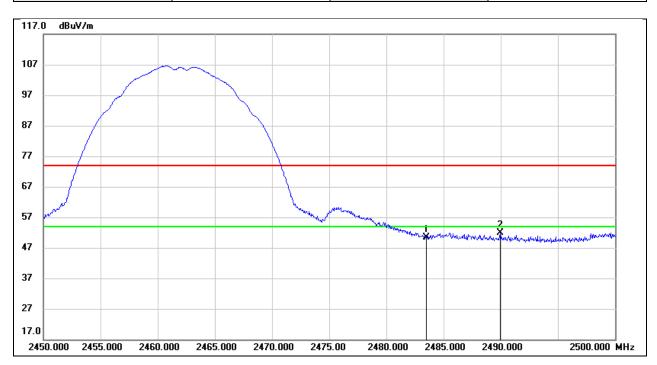


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2375.400	5.04	32.85	37.89	54.00	-16.11	AVG
2	2387.760	3.41	32.91	36.32	54.00	-17.68	AVG
3	2390.000	3.82	32.92	36.74	54.00	-17.26	AVG





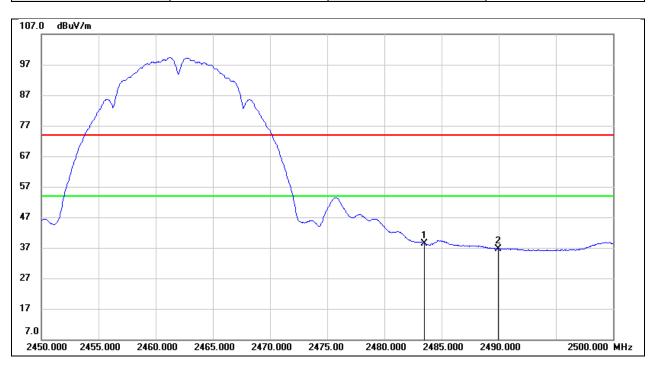
Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	17.55	32.94	50.49	74.00	-23.51	peak
2	2489.950	19.04	32.93	51.97	74.00	-22.03	peak



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

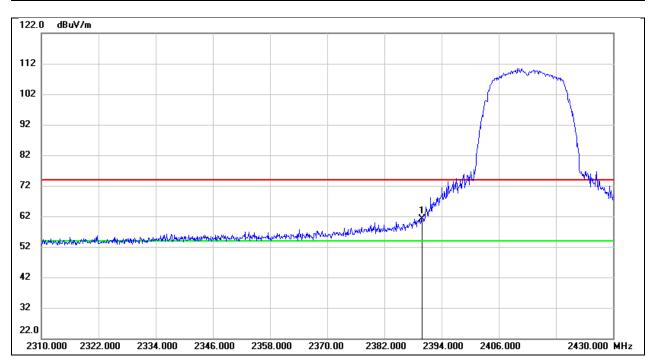


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	5.46	32.94	38.40	54.00	-15.60	AVG
2	2489.950	3.73	32.93	36.66	54.00	-17.34	AVG



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

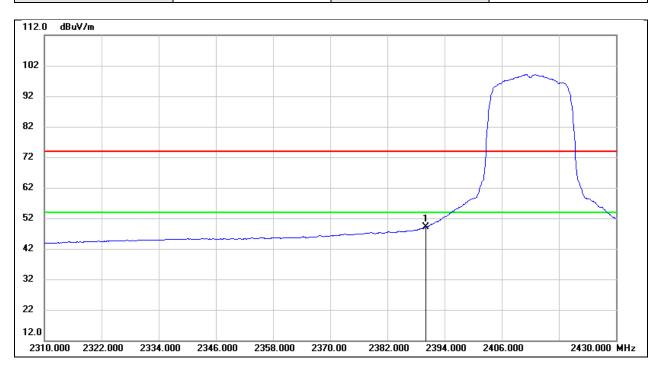


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	28.13	32.92	61.05	74.00	-12.95	peak



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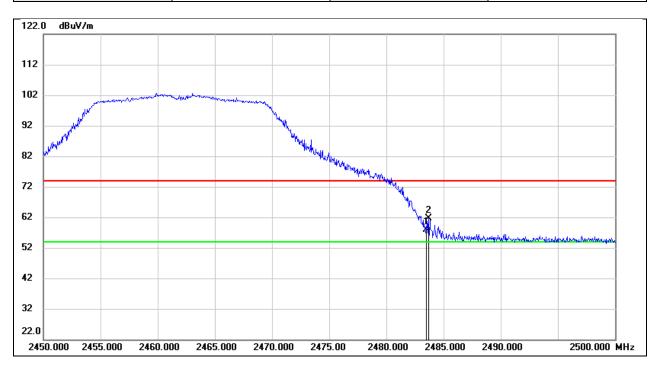
Test Mode:	802.11g AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	16.14	32.92	49.06	54.00	-4.94	AVG



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

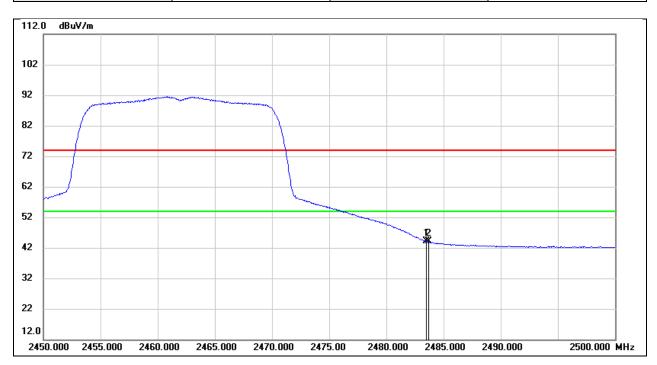


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	24.89	32.94	57.83	74.00	-16.17	peak
2	2483.700	28.60	32.94	61.54	74.00	-12.46	peak



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

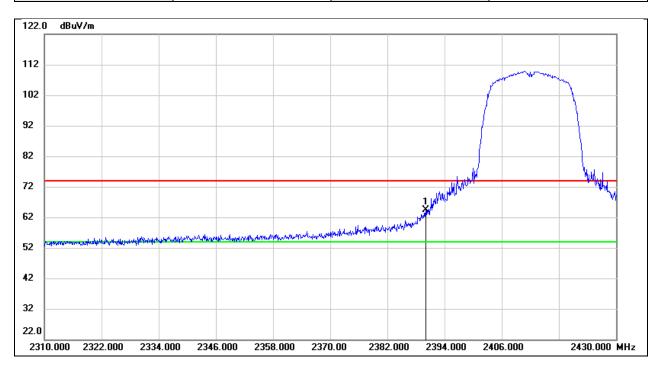


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	11.19	32.94	44.13	54.00	-9.87	AVG
2	2483.700	11.12	32.94	44.06	54.00	-9.94	AVG



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

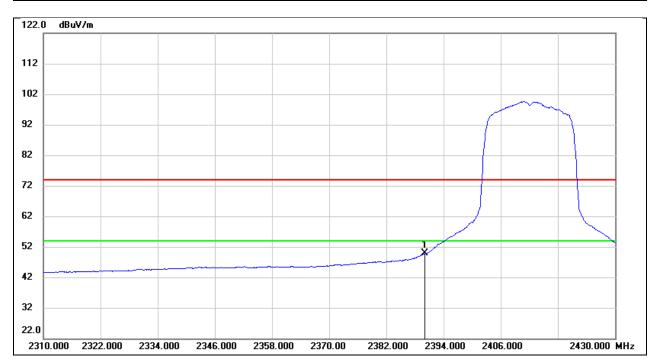


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	31.55	32.92	64.47	74.00	-9.53	peak



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

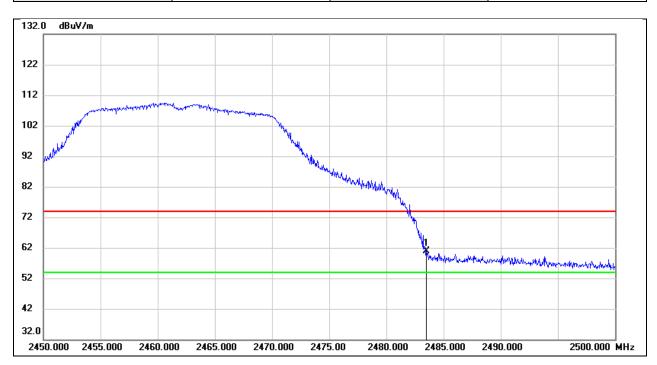


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	16.84	32.92	49.76	54.00	-4.24	AVG



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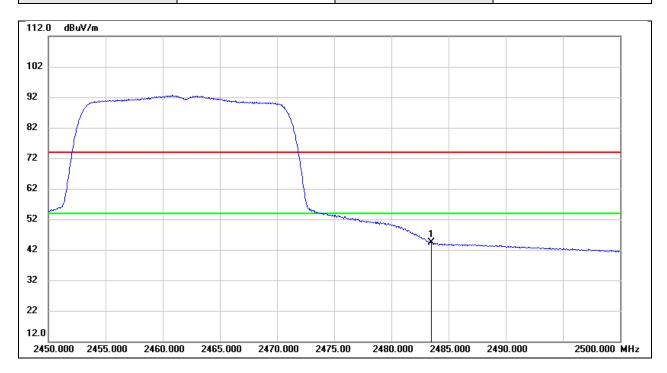
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	27.86	32.94	60.80	74.00	-13.20	peak



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

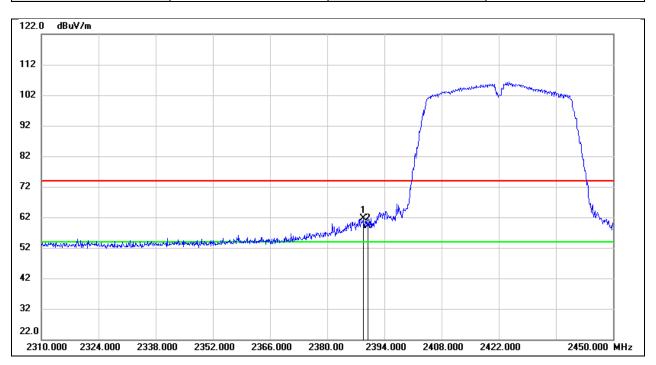


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	11.53	32.94	44.47	54.00	-9.53	AVG



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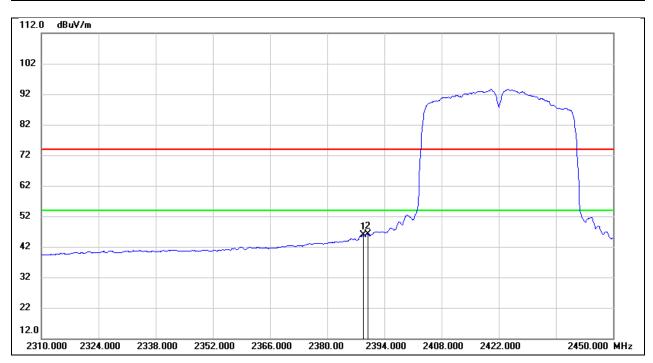
Test Mode:	802.11n HT40 PK	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.820	28.76	32.92	61.68	74.00	-12.32	peak
2	2390.000	26.33	32.92	59.25	74.00	-14.75	peak



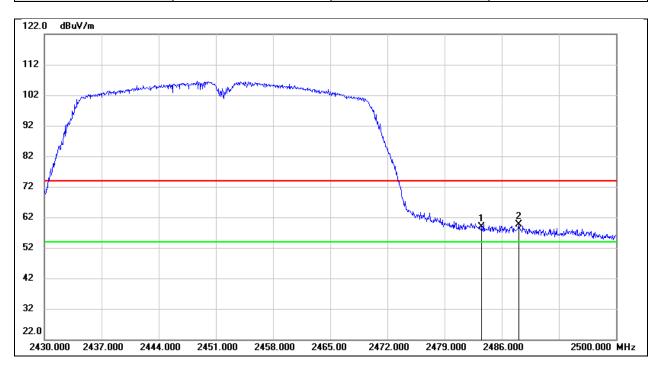
Test Mode:	802.11n HT40 AV	Frequency(MHz):	2422
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.820	12.88	32.92	45.80	54.00	-8.20	AVG
2	2390.000	13.14	32.92	46.06	54.00	-7.94	AVG



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

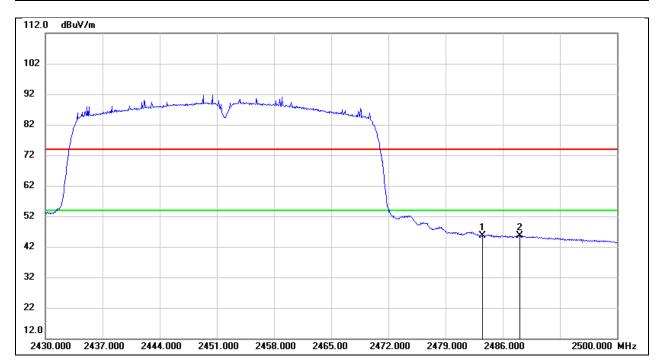


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	25.90	32.94	58.84	74.00	-15.16	peak
2	2488.100	26.74	32.94	59.68	74.00	-14.32	peak

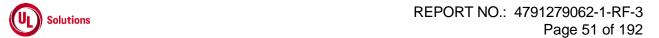


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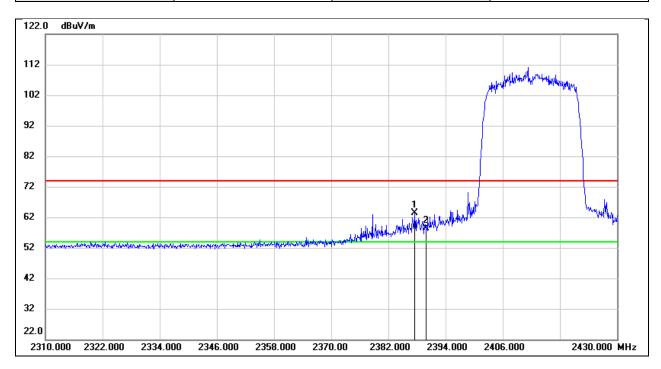
Test Mode:	802.11n HT40 AV	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	12.59	32.94	45.53	54.00	-8.47	AVG
2	2488.100	12.64	32.94	45.58	54.00	-8.42	AVG



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

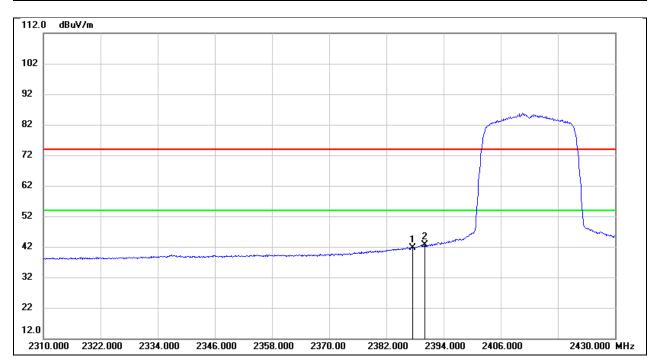


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.520	30.47	32.91	63.38	74.00	-10.62	peak
2	2390.000	25.35	32.92	58.27	74.00	-15.73	peak



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

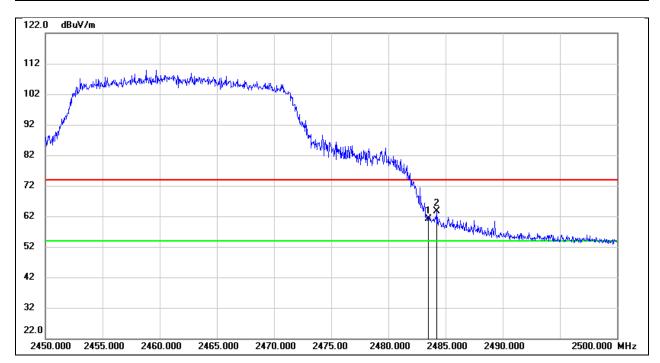


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.520	8.81	32.91	41.72	54.00	-12.28	AVG
2	2390.000	9.68	32.92	42.60	54.00	-11.40	AVG



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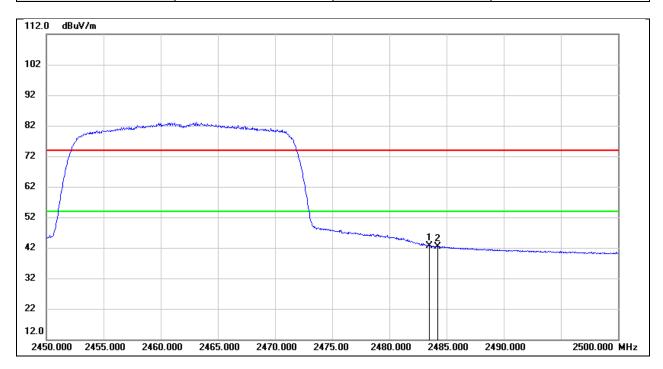
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	28.14	32.94	61.08	74.00	-12.92	peak
2	2484.250	30.64	32.94	63.58	74.00	-10.42	peak



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

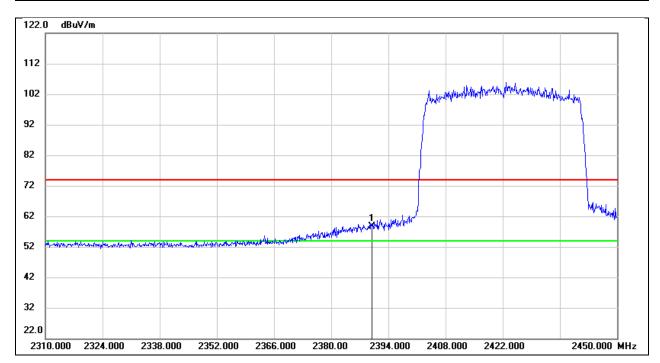


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	9.72	32.94	42.66	54.00	-11.34	AVG
2	2484.250	9.50	32.94	42.44	54.00	-11.56	AVG



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

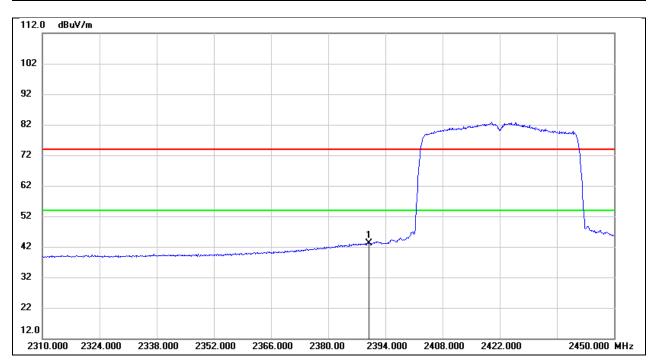


	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Г	1	2390.000	25.59	32.92	58.51	74.00	-15.49	peak



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

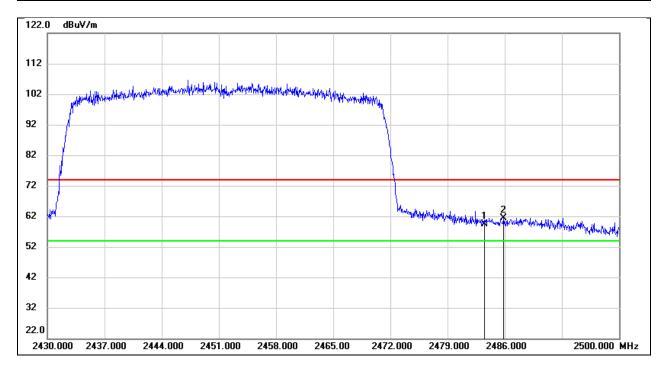


N	ю.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2390.000	10.14	32.92	43.06	54.00	-10.94	AVG



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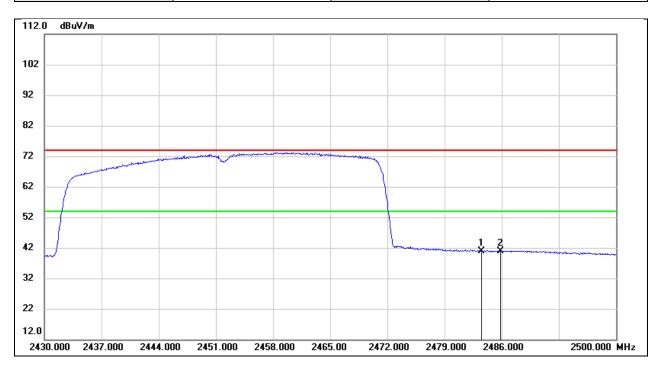
Test Mode:	802.11ax HE40 PK	Frequency(MHz):	2452
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	26.51	32.94	59.45	74.00	-14.55	peak
2	2485.860	28.47	32.93	61.40	74.00	-12.60	peak



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



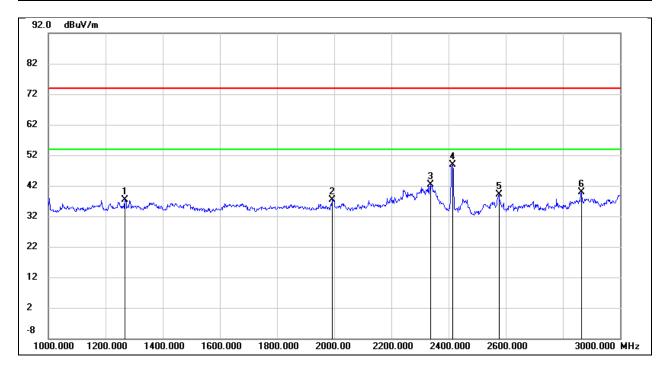
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	8.04	32.94	40.98	54.00	-13.02	AVG
2	2485.860	7.93	32.93	40.86	54.00	-13.14	AVG



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8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

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

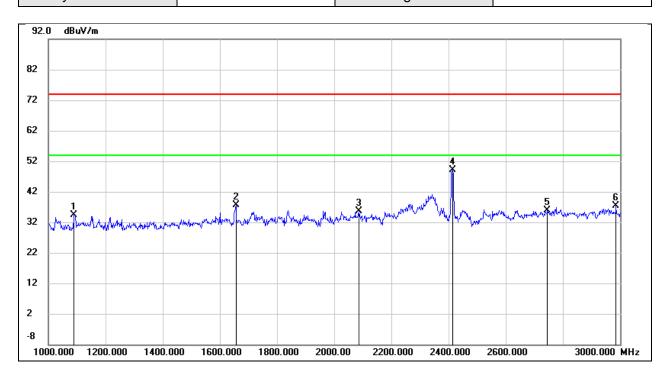


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1268.000	49.93	-12.56	37.37	74.00	-36.63	peak
2	1992.000	47.47	-10.12	37.35	74.00	-36.65	peak
3	2336.000	50.34	-7.87	42.47	74.00	-31.53	peak
4	2412.000	56.41	-7.41	49.00	1	/	fundamental
5	2576.000	46.72	-7.64	39.08	74.00	-34.92	peak
6	2864.000	46.35	-6.51	39.84	74.00	-34.16	peak



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

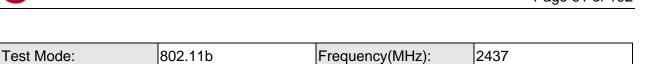


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1090.000	47.98	-13.61	34.37	74.00	-39.63	peak
2	1656.000	48.64	-10.91	37.73	74.00	-36.27	peak
3	2086.000	45.29	-9.58	35.71	74.00	-38.29	peak
4	2412.000	56.62	-7.41	49.21	1	/	fundamental
5	2746.000	42.98	-7.04	35.94	74.00	-38.06	peak
6	2986.000	43.29	-5.96	37.33	74.00	-36.67	peak



Test Voltage:

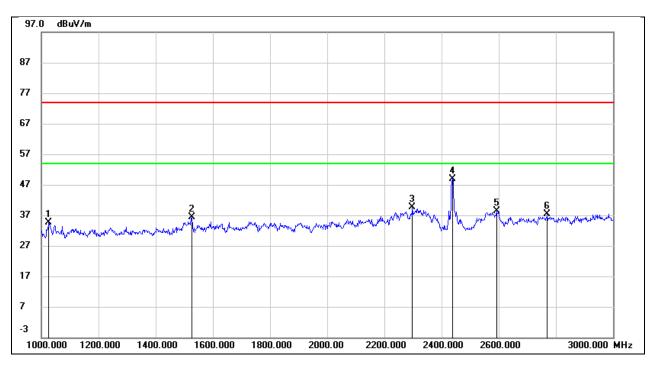
DC 3.3V



Horizontal

Solutions

Polarity:

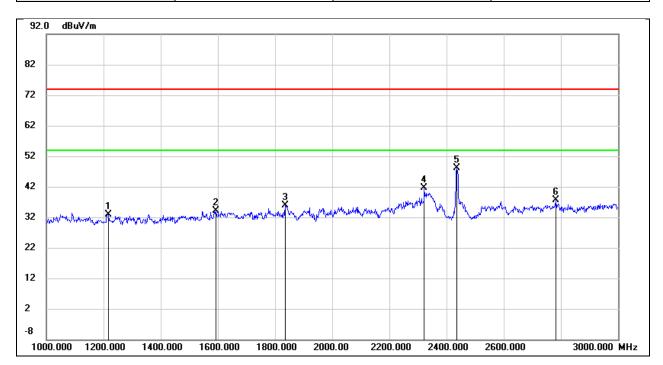


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1026.000	48.79	-14.18	34.61	74.00	-39.39	peak
2	1526.000	47.86	-11.59	36.27	74.00	-37.73	peak
3	2298.000	47.76	-8.16	39.60	74.00	-34.40	peak
4	2437.000	56.38	-7.43	48.95	1	/	fundamental
5	2592.000	46.13	-7.67	38.46	74.00	-35.54	peak
6	2770.000	44.29	-6.93	37.36	74.00	-36.64	peak



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

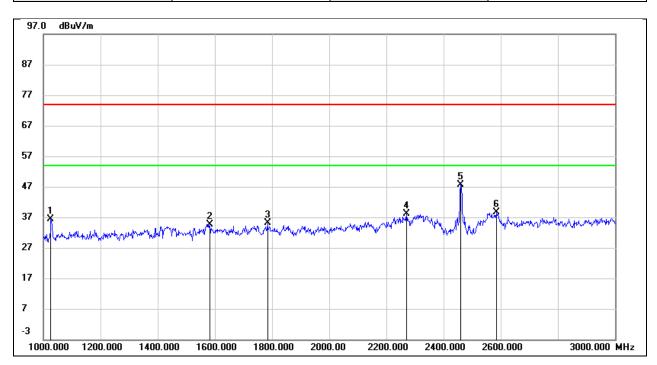


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1218.000	45.51	-12.62	32.89	74.00	-41.11	peak
2	1592.000	45.24	-11.22	34.02	74.00	-39.98	peak
3	1836.000	46.12	-10.21	35.91	74.00	-38.09	peak
4	2322.000	49.53	-7.97	41.56	74.00	-32.44	peak
5	2437.000	55.55	-7.43	48.12	1	1	fundamental
6	2782.000	44.40	-6.87	37.53	74.00	-36.47	peak



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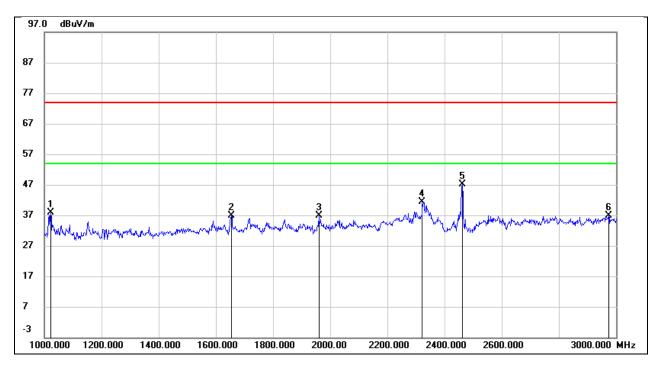
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1026.000	50.45	-14.18	36.27	74.00	-37.73	peak
2	1582.000	45.97	-11.27	34.70	74.00	-39.30	peak
3	1784.000	45.34	-10.32	35.02	74.00	-38.98	peak
4	2270.000	46.51	-8.36	38.15	74.00	-35.85	peak
5	2462.000	55.04	-7.46	47.58	/	/	fundamental
6	2584.000	46.25	-7.65	38.60	74.00	-35.40	peak



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

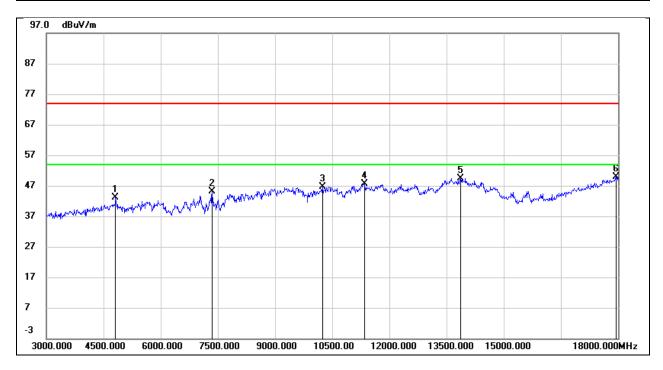


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1022.000	52.06	-14.22	37.84	74.00	-36.16	peak
2	1654.000	47.87	-10.92	36.95	74.00	-37.05	peak
3	1960.000	47.13	-10.14	36.99	74.00	-37.01	peak
4	2322.000	49.44	-7.97	41.47	74.00	-32.53	peak
5	2462.000	54.56	-7.47	47.09	1	/	fundamental
6	2974.000	42.78	-6.01	36.77	74.00	-37.23	peak

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8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

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

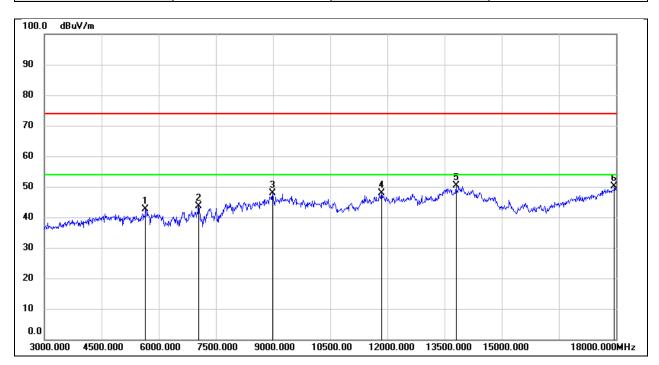


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	42.58	0.49	43.07	74.00	-30.93	peak
2	7350.000	38.06	7.17	45.23	74.00	-28.77	peak
3	10245.000	33.81	12.70	46.51	74.00	-27.49	peak
4	11340.000	31.35	16.19	47.54	74.00	-26.46	peak
5	13875.000	26.74	22.68	49.42	74.00	-24.58	peak
6	17940.000	23.37	26.61	49.98	74.00	-24.02	peak



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

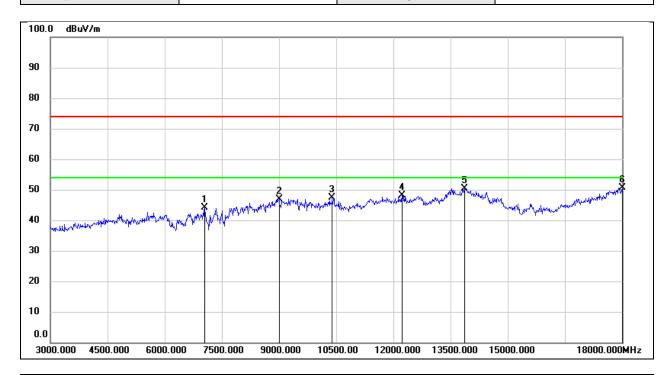


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	39.98	2.67	42.65	74.00	-31.35	peak
2	7050.000	36.34	7.19	43.53	74.00	-30.47	peak
3	8985.000	36.93	10.97	47.90	74.00	-26.10	peak
4	11850.000	30.16	17.84	48.00	74.00	-26.00	peak
5	13800.000	27.75	22.64	50.39	74.00	-23.61	peak
6	17955.000	23.44	26.66	50.10	74.00	-23.90	peak



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

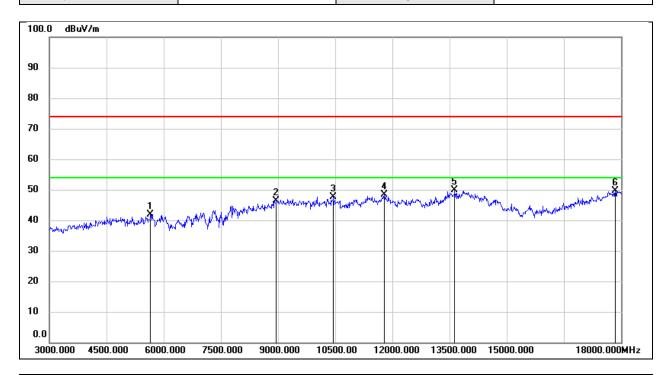


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7050.000	36.93	7.19	44.12	74.00	-29.88	peak
2	9000.000	35.73	11.17	46.90	74.00	-27.10	peak
3	10395.000	33.98	13.43	47.41	74.00	-26.59	peak
4	12225.000	29.64	18.40	48.04	74.00	-25.96	peak
5	13860.000	27.72	22.68	50.40	74.00	-23.60	peak
6	18000.000	23.80	26.83	50.63	74.00	-23.37	peak



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

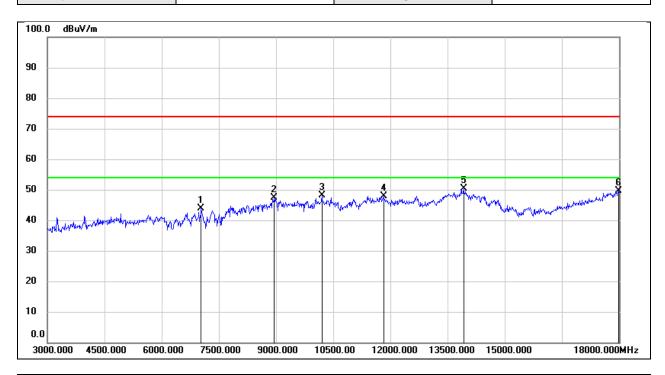


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	39.22	2.67	41.89	74.00	-32.11	peak
2	8955.000	35.78	10.56	46.34	74.00	-27.66	peak
3	10455.000	34.14	13.59	47.73	74.00	-26.27	peak
4	11790.000	30.66	17.60	48.26	74.00	-25.74	peak
5	13635.000	28.09	21.83	49.92	74.00	-24.08	peak
6	17850.000	23.25	26.28	49.53	74.00	-24.47	peak



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

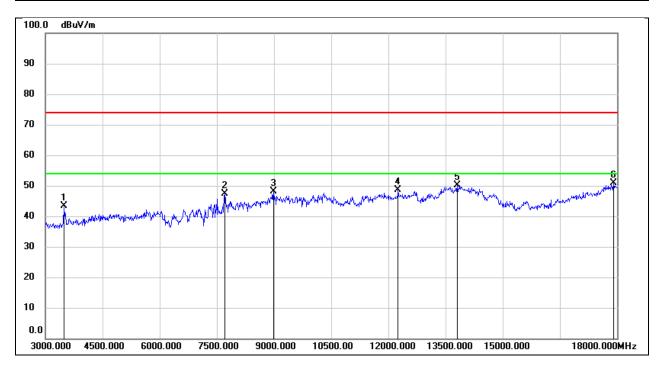


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.65	7.28	43.93	74.00	-30.07	peak
2	8955.000	36.75	10.56	47.31	74.00	-26.69	peak
3	10200.000	35.63	12.48	48.11	74.00	-25.89	peak
4	11820.000	30.20	17.73	47.93	74.00	-26.07	peak
5	13920.000	27.75	22.71	50.46	74.00	-23.54	peak
6	17985.000	22.85	26.77	49.62	74.00	-24.38	peak



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

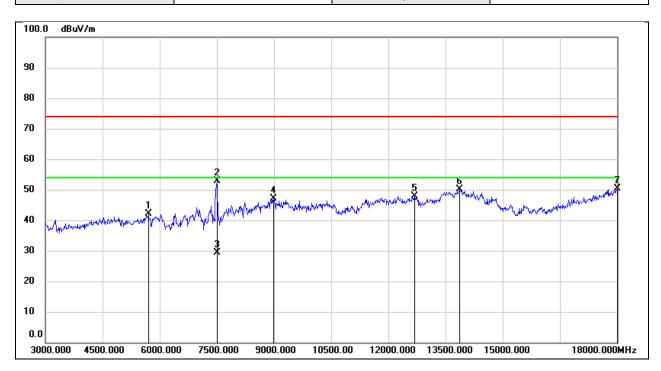


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3480.000	47.42	-4.08	43.34	74.00	-30.66	peak
2	7710.000	40.21	7.23	47.44	74.00	-26.56	peak
3	8985.000	37.26	10.97	48.23	74.00	-25.77	peak
4	12255.000	30.02	18.50	48.52	74.00	-25.48	peak
5	13800.000	27.42	22.64	50.06	74.00	-23.94	peak
6	17910.000	24.42	26.50	50.92	74.00	-23.08	peak



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

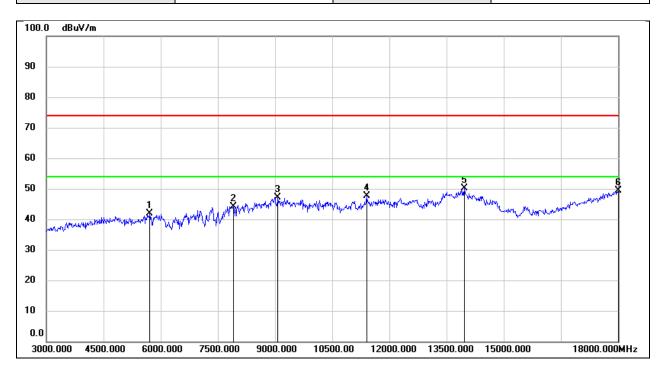


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	39.53	2.54	42.07	74.00	-31.93	peak
2	7500.000	45.60	7.18	52.78	74.00	-21.22	peak
3	7500.000	22.22	7.18	29.40	54.00	-24.60	AVG
4	8985.000	36.14	10.97	47.11	74.00	-26.89	peak
5	12690.000	29.20	18.60	47.80	74.00	-26.20	peak
6	13860.000	27.38	22.68	50.06	74.00	-23.94	peak
7	18000.000	23.44	26.83	50.27	74.00	-23.73	peak



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

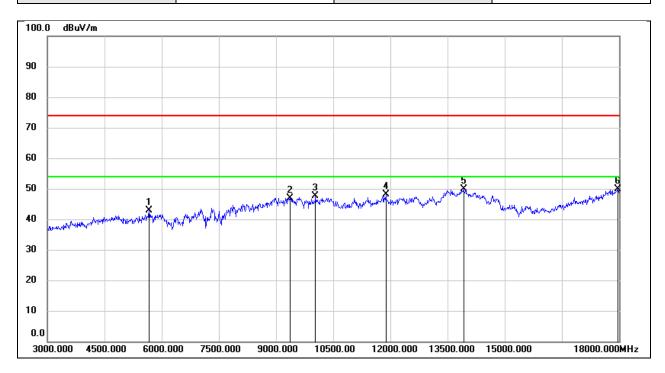


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5715.000	39.27	2.50	41.77	74.00	-32.23	peak
2	7905.000	36.91	7.25	44.16	74.00	-29.84	peak
3	9075.000	36.43	10.74	47.17	74.00	-26.83	peak
4	11400.000	31.01	16.54	47.55	74.00	-26.45	peak
5	13965.000	27.43	22.74	50.17	74.00	-23.83	peak
6	18000.000	22.45	26.83	49.28	74.00	-24.72	peak



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

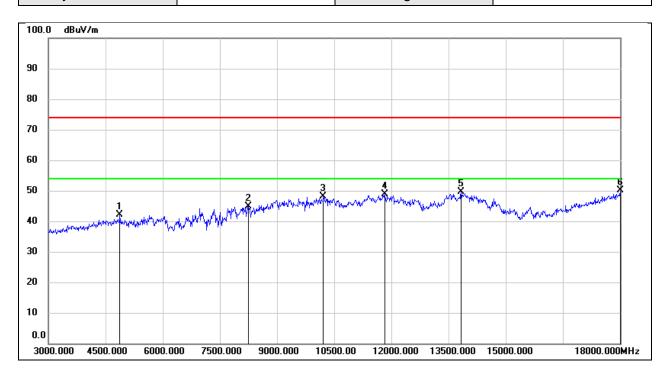


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5670.000	40.15	2.62	42.77	74.00	-31.23	peak
2	9360.000	36.59	10.36	46.95	74.00	-27.05	peak
3	10035.000	35.12	12.48	47.60	74.00	-26.40	peak
4	11880.000	30.23	17.97	48.20	74.00	-25.80	peak
5	13920.000	27.22	22.71	49.93	74.00	-24.07	peak
6	17970.000	23.18	26.72	49.90	74.00	-24.10	peak



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

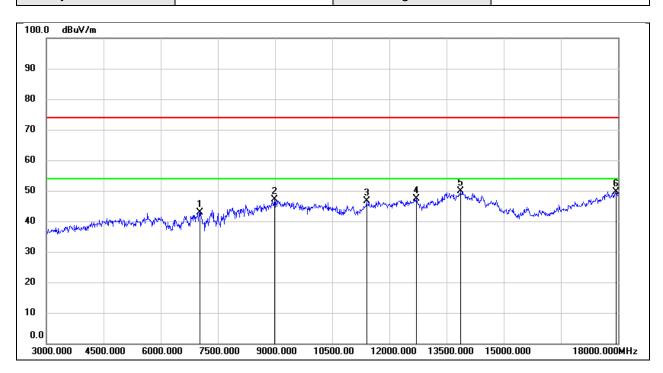


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.56	0.61	42.17	74.00	-31.83	peak
2	8250.000	36.33	8.61	44.94	74.00	-29.06	peak
3	10215.000	35.63	12.56	48.19	74.00	-25.81	peak
4	11820.000	31.09	17.73	48.82	74.00	-25.18	peak
5	13830.000	27.07	22.66	49.73	74.00	-24.27	peak
6	18000.000	23.31	26.83	50.14	74.00	-23.86	peak



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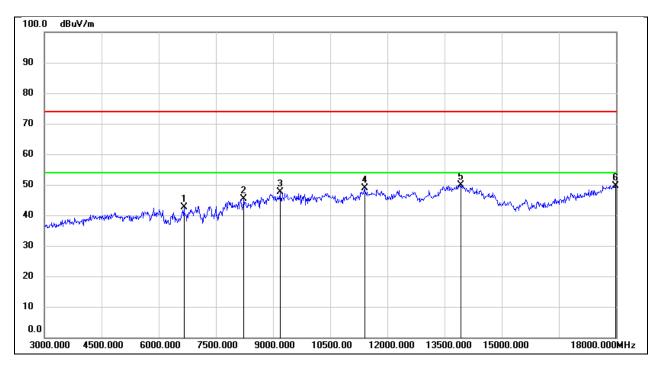
Test Mode: 802.11g Frequency(MHz): 2462
Polarity: Horizontal Test Voltage: DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	35.67	7.28	42.95	74.00	-31.05	peak
2	8985.000	36.19	10.97	47.16	74.00	-26.84	peak
3	11400.000	30.09	16.54	46.63	74.00	-27.37	peak
4	12705.000	28.61	18.66	47.27	74.00	-26.73	peak
5	13860.000	27.15	22.68	49.83	74.00	-24.17	peak
6	17955.000	23.06	26.66	49.72	74.00	-24.28	peak



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

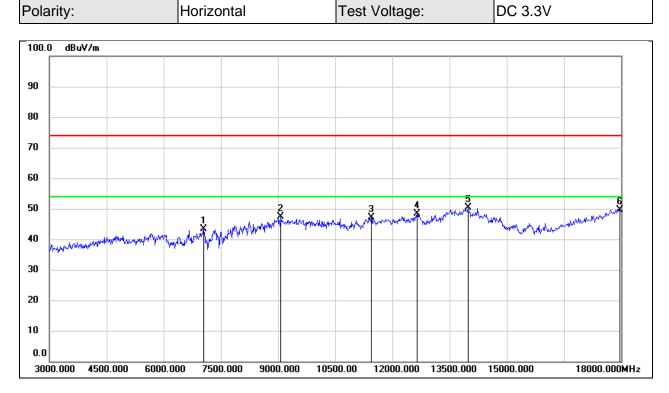


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6660.000	37.60	4.95	42.55	74.00	-31.45	peak
2	8235.000	36.66	8.70	45.36	74.00	-28.64	peak
3	9180.000	37.44	10.13	47.57	74.00	-26.43	peak
4	11400.000	32.43	16.54	48.97	74.00	-25.03	peak
5	13920.000	27.12	22.71	49.83	74.00	-24.17	peak
6	17985.000	22.98	26.77	49.75	74.00	-24.25	peak



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Test Mode: 802.11n HT20 Frequency(MHz): 2412

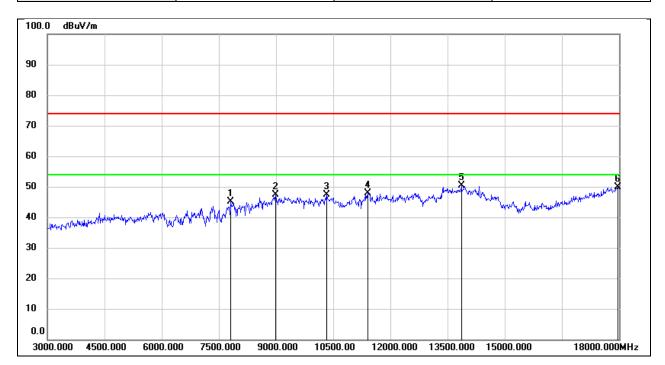


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7050.000	36.11	7.19	43.30	74.00	-30.70	peak
2	9075.000	36.60	10.74	47.34	74.00	-26.66	peak
3	11445.000	30.44	16.69	47.13	74.00	-26.87	peak
4	12645.000	30.05	18.44	48.49	74.00	-25.51	peak
5	13980.000	27.70	22.75	50.45	74.00	-23.55	peak
6	17970.000	22.98	26.72	49.70	74.00	-24.30	peak



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

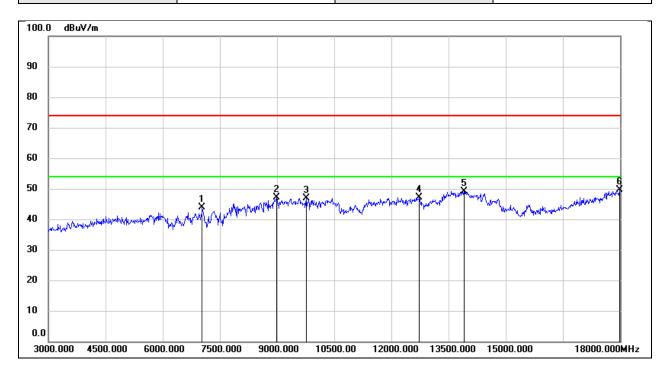


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	37.59	7.50	45.09	74.00	-28.91	peak
2	8985.000	36.34	10.97	47.31	74.00	-26.69	peak
3	10335.000	34.19	13.14	47.33	74.00	-26.67	peak
4	11400.000	31.27	16.54	47.81	74.00	-26.19	peak
5	13860.000	27.61	22.68	50.29	74.00	-23.71	peak
6	17970.000	23.20	26.72	49.92	74.00	-24.08	peak



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

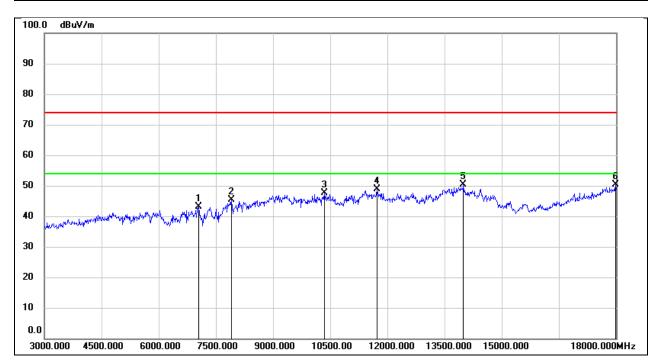


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.55	7.28	43.83	74.00	-30.17	peak
2	8985.000	36.17	10.97	47.14	74.00	-26.86	peak
3	9765.000	35.32	11.44	46.76	74.00	-27.24	peak
4	12735.000	28.47	18.77	47.24	74.00	-26.76	peak
5	13905.000	26.55	22.70	49.25	74.00	-24.75	peak
6	17985.000	22.82	26.77	49.59	74.00	-24.41	peak

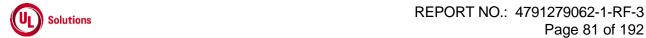


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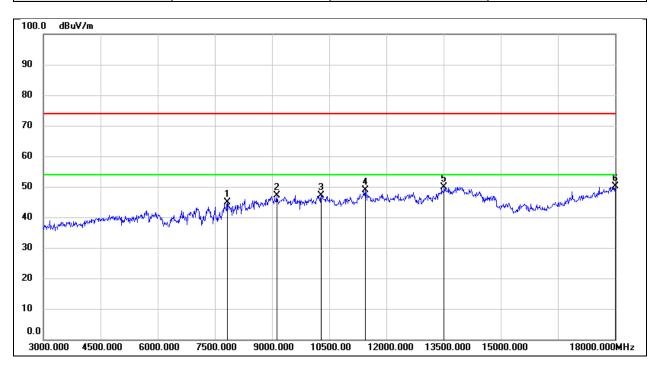
Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7050.000	35.83	7.19	43.02	74.00	-30.98	peak
2	7905.000	38.06	7.25	45.31	74.00	-28.69	peak
3	10350.000	34.45	13.21	47.66	74.00	-26.34	peak
4	11730.000	31.47	17.41	48.88	74.00	-25.12	peak
5	13995.000	27.50	22.76	50.26	74.00	-23.74	peak
6	17985.000	23.62	26.77	50.39	74.00	-23.61	peak



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

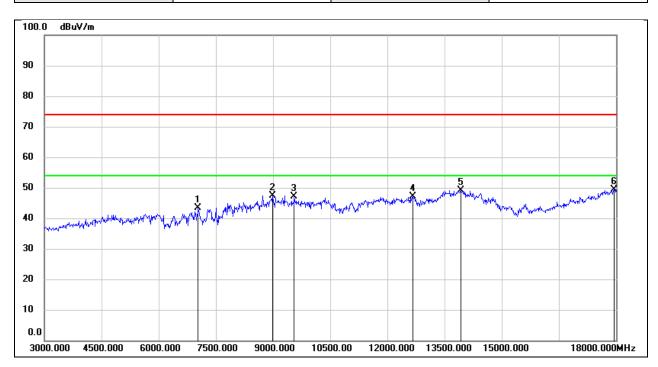


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7830.000	37.34	7.46	44.80	74.00	-29.20	peak
2	9120.000	36.59	10.47	47.06	74.00	-26.94	peak
3	10290.000	34.24	12.93	47.17	74.00	-26.83	peak
4	11445.000	32.25	16.69	48.94	74.00	-25.06	peak
5	13515.000	28.12	21.69	49.81	74.00	-24.19	peak
6	18000.000	23.35	26.83	50.18	74.00	-23.82	peak



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

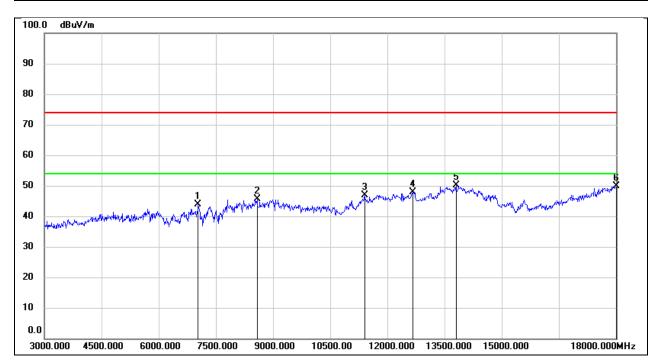


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.07	7.28	43.35	74.00	-30.65	peak
2	8985.000	36.45	10.97	47.42	74.00	-26.58	peak
3	9555.000	36.29	10.94	47.23	74.00	-26.77	peak
4	12675.000	28.53	18.54	47.07	74.00	-26.93	peak
5	13920.000	26.53	22.71	49.24	74.00	-24.76	peak
6	17940.000	22.79	26.61	49.40	74.00	-24.60	peak



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

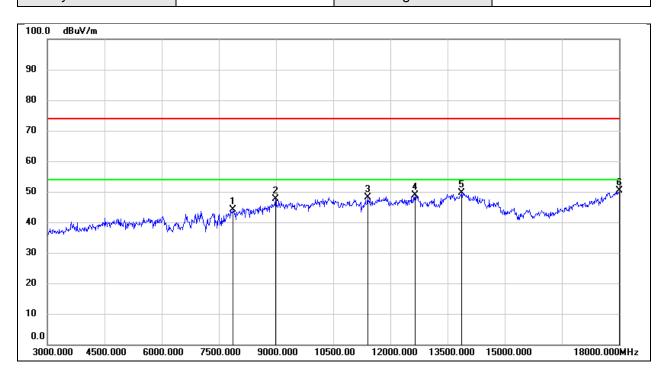


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.59	7.28	43.87	74.00	-30.13	peak
2	8580.000	37.05	8.63	45.68	74.00	-28.32	peak
3	11400.000	30.40	16.54	46.94	74.00	-27.06	peak
4	12675.000	29.44	18.54	47.98	74.00	-26.02	peak
5	13800.000	27.51	22.64	50.15	74.00	-23.85	peak
6	18000.000	23.08	26.83	49.91	74.00	-24.09	peak



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

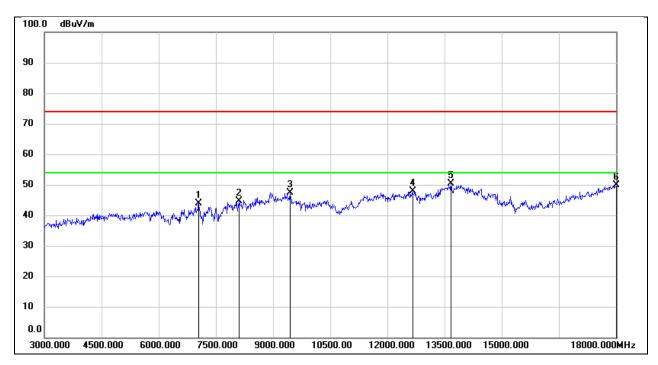


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7875.000	36.88	7.33	44.21	74.00	-29.79	peak
2	8985.000	36.75	10.97	47.72	74.00	-26.28	peak
3	11400.000	31.67	16.54	48.21	74.00	-25.79	peak
4	12645.000	30.44	18.44	48.88	74.00	-25.12	peak
5	13860.000	26.90	22.68	49.58	74.00	-24.42	peak
6	18000.000	23.55	26.83	50.38	74.00	-23.62	peak



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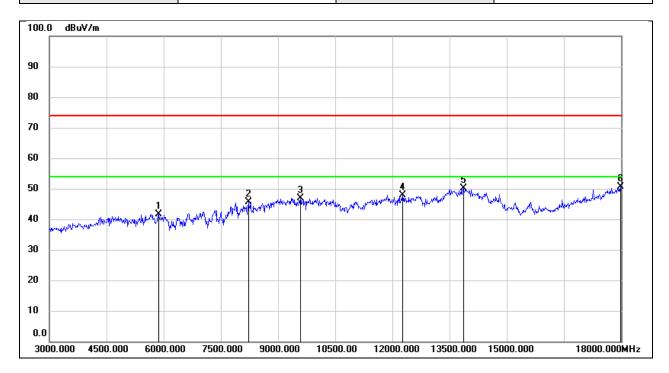
Test Mode:	802.11n HT40	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7050.000	36.71	7.19	43.90	74.00	-30.10	peak
2	8115.000	36.58	8.07	44.65	74.00	-29.35	peak
3	9450.000	36.75	10.62	47.37	74.00	-26.63	peak
4	12660.000	29.43	18.49	47.92	74.00	-26.08	peak
5	13665.000	28.40	21.98	50.38	74.00	-23.62	peak
6	18000.000	23.00	26.83	49.83	74.00	-24.17	peak



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

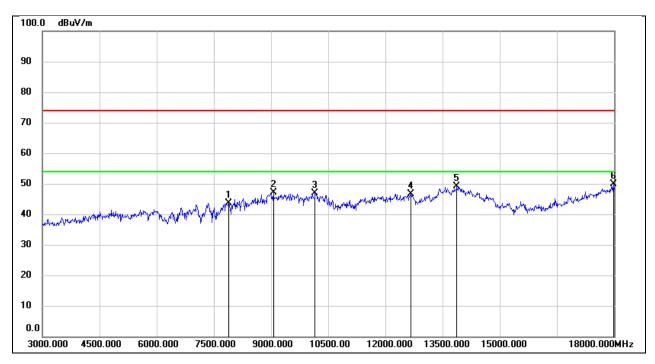


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5865.000	39.14	2.55	41.69	74.00	-32.31	peak
2	8220.000	36.91	8.76	45.67	74.00	-28.33	peak
3	9585.000	35.93	11.02	46.95	74.00	-27.05	peak
4	12270.000	29.23	18.55	47.78	74.00	-26.22	peak
5	13860.000	27.57	22.68	50.25	74.00	-23.75	peak
6	17985.000	23.89	26.77	50.66	74.00	-23.34	peak



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

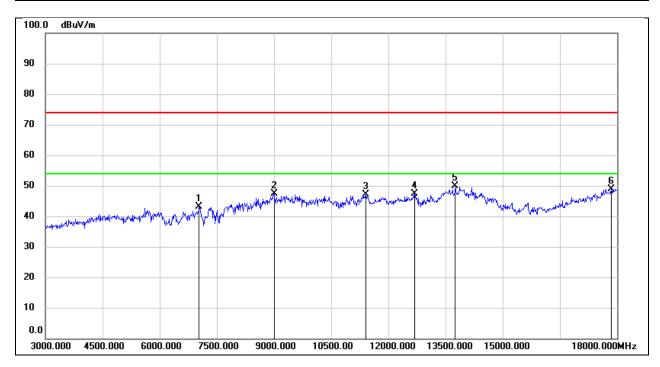


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7890.000	36.39	7.29	43.68	74.00	-30.32	peak
2	9060.000	36.20	10.82	47.02	74.00	-26.98	peak
3	10155.000	34.51	12.48	46.99	74.00	-27.01	peak
4	12660.000	28.24	18.49	46.73	74.00	-27.27	peak
5	13875.000	26.39	22.68	49.07	74.00	-24.93	peak
6	17985.000	23.17	26.77	49.94	74.00	-24.06	peak



 Test Mode:
 802.11n HT40
 Frequency(MHz):
 2452

 Polarity:
 Vertical
 Test Voltage:
 DC 3.3V

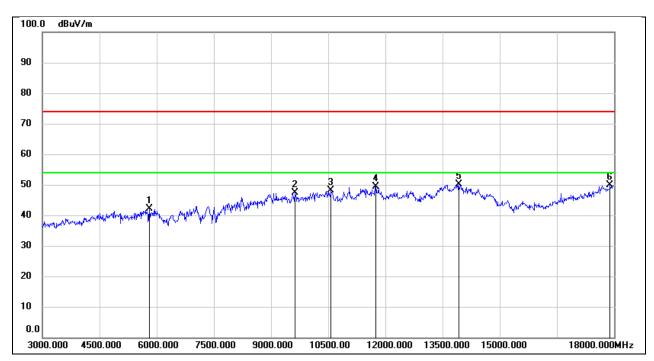


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	35.91	7.28	43.19	74.00	-30.81	peak
2	9000.000	36.11	11.17	47.28	74.00	-26.72	peak
3	11400.000	30.61	16.54	47.15	74.00	-26.85	peak
4	12690.000	28.72	18.60	47.32	74.00	-26.68	peak
5	13755.000	27.45	22.42	49.87	74.00	-24.13	peak
6	17850.000	22.71	26.28	48.99	74.00	-25.01	peak



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

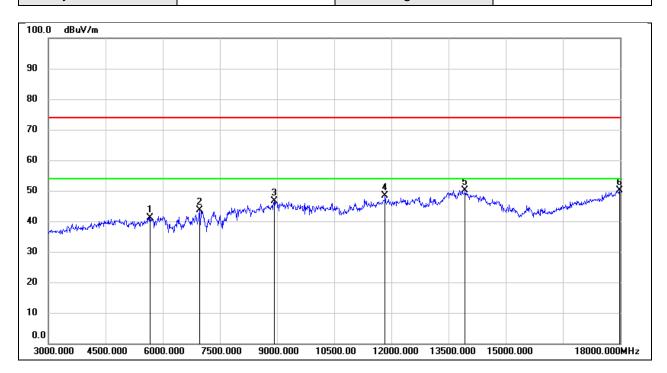


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5805.000	39.87	2.30	42.17	74.00	-31.83	peak
2	9630.000	36.34	11.13	47.47	74.00	-26.53	peak
3	10575.000	34.31	13.87	48.18	74.00	-25.82	peak
4	11745.000	31.87	17.47	49.34	74.00	-24.66	peak
5	13920.000	27.54	22.71	50.25	74.00	-23.75	peak
6	17895.000	23.40	26.44	49.84	74.00	-24.16	peak



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

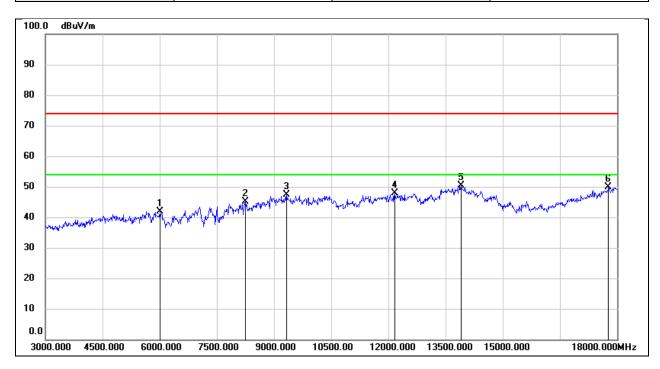


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5670.000	38.58	2.62	41.20	74.00	-32.80	peak
2	6960.000	36.54	7.00	43.54	74.00	-30.46	peak
3	8925.000	36.51	10.14	46.65	74.00	-27.35	peak
4	11835.000	30.58	17.79	48.37	74.00	-25.63	peak
5	13935.000	27.51	22.72	50.23	74.00	-23.77	peak
6	17985.000	23.40	26.77	50.17	74.00	-23.83	peak



Test Mode: 802.11ax HE20 Frequency(MHz): 2437

Polarity: Horizontal Test Voltage: DC 3.3V

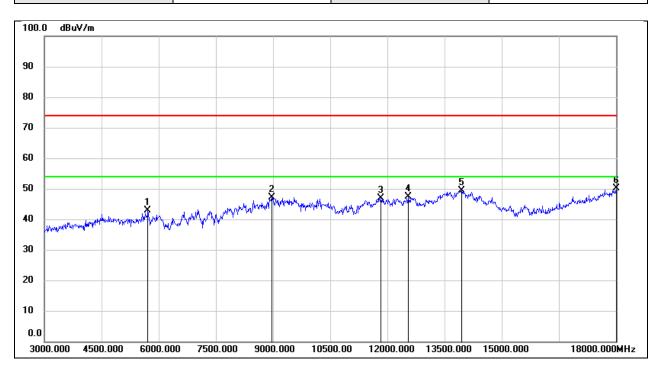


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6015.000	38.88	3.09	41.97	74.00	-32.03	peak
2	8250.000	36.53	8.61	45.14	74.00	-28.86	peak
3	9330.000	37.16	10.30	47.46	74.00	-26.54	peak
4	12165.000	29.63	18.35	47.98	74.00	-26.02	peak
5	13905.000	27.60	22.70	50.30	74.00	-23.70	peak
6	17775.000	24.02	25.86	49.88	74.00	-24.12	peak



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

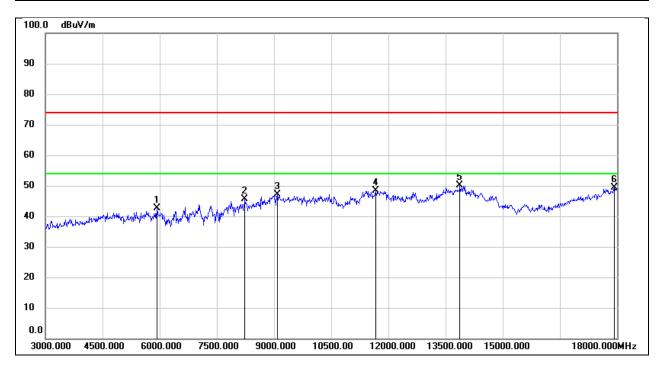


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5715.000	40.27	2.50	42.77	74.00	-31.23	peak
2	8970.000	36.45	10.75	47.20	74.00	-26.80	peak
3	11835.000	28.99	17.79	46.78	74.00	-27.22	peak
4	12555.000	28.91	18.39	47.30	74.00	-26.70	peak
5	13950.000	26.55	22.73	49.28	74.00	-24.72	peak
6	18000.000	23.27	26.83	50.10	74.00	-23.90	peak



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

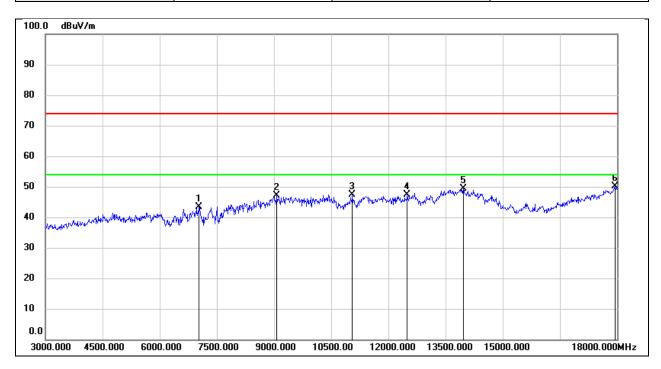


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5925.000	39.78	2.80	42.58	74.00	-31.42	peak
2	8235.000	37.04	8.70	45.74	74.00	-28.26	peak
3	9090.000	36.49	10.65	47.14	74.00	-26.86	peak
4	11670.000	31.07	17.24	48.31	74.00	-25.69	peak
5	13875.000	27.41	22.68	50.09	74.00	-23.91	peak
6	17925.000	22.75	26.55	49.30	74.00	-24.70	peak



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

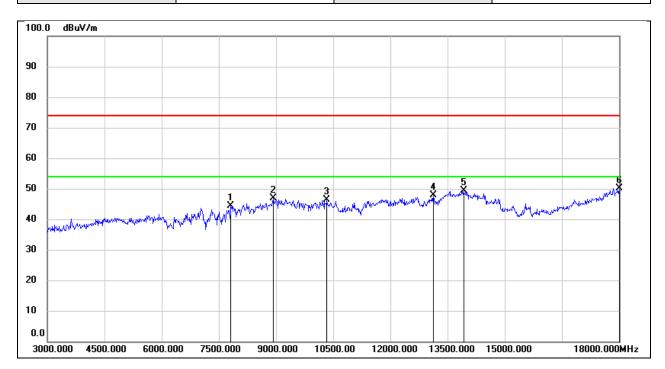


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.08	7.28	43.36	74.00	-30.64	peak
2	9075.000	36.47	10.74	47.21	74.00	-26.79	peak
3	11055.000	32.25	15.04	47.29	74.00	-26.71	peak
4	12495.000	28.80	18.56	47.36	74.00	-26.64	peak
5	13965.000	26.59	22.74	49.33	74.00	-24.67	peak
6	17940.000	23.41	26.61	50.02	74.00	-23.98	peak



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

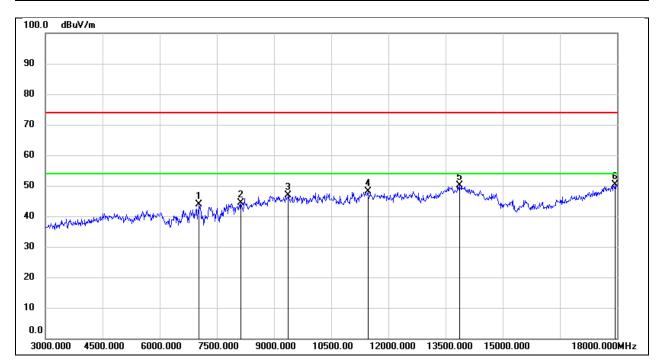


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7815.000	36.92	7.50	44.42	74.00	-29.58	peak
2	8925.000	36.81	10.14	46.95	74.00	-27.05	peak
3	10335.000	33.25	13.14	46.39	74.00	-27.61	peak
4	13125.000	28.10	19.72	47.82	74.00	-26.18	peak
5	13920.000	26.78	22.71	49.49	74.00	-24.51	peak
6	18000.000	23.38	26.83	50.21	74.00	-23.79	peak



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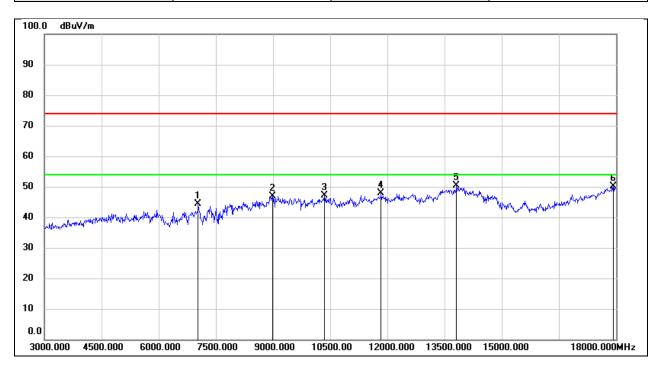
Test Mode:	802.11ax HE40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.51	7.28	43.79	74.00	-30.21	peak
2	8130.000	36.14	8.21	44.35	74.00	-29.65	peak
3	9375.000	36.47	10.40	46.87	74.00	-27.13	peak
4	11460.000	31.36	16.74	48.10	74.00	-25.90	peak
5	13860.000	27.54	22.68	50.22	74.00	-23.78	peak
6	17940.000	23.66	26.61	50.27	74.00	-23.73	peak



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

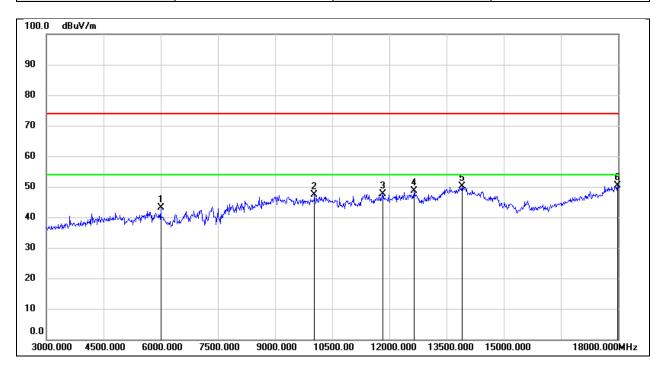


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	37.04	7.28	44.32	74.00	-29.68	peak
2	8985.000	35.92	10.97	46.89	74.00	-27.11	peak
3	10350.000	33.82	13.21	47.03	74.00	-26.97	peak
4	11835.000	30.09	17.79	47.88	74.00	-26.12	peak
5	13815.000	27.71	22.65	50.36	74.00	-23.64	peak
6	17925.000	23.51	26.55	50.06	74.00	-23.94	peak



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

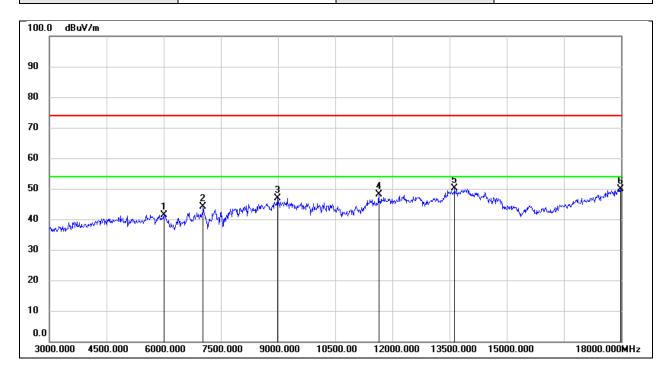


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6000.000	39.99	3.11	43.10	74.00	-30.90	peak
2	10035.000	35.01	12.48	47.49	74.00	-26.51	peak
3	11835.000	29.85	17.79	47.64	74.00	-26.36	peak
4	12645.000	30.10	18.44	48.54	74.00	-25.46	peak
5	13905.000	27.42	22.70	50.12	74.00	-23.88	peak
6	17985.000	23.67	26.77	50.44	74.00	-23.56	peak



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

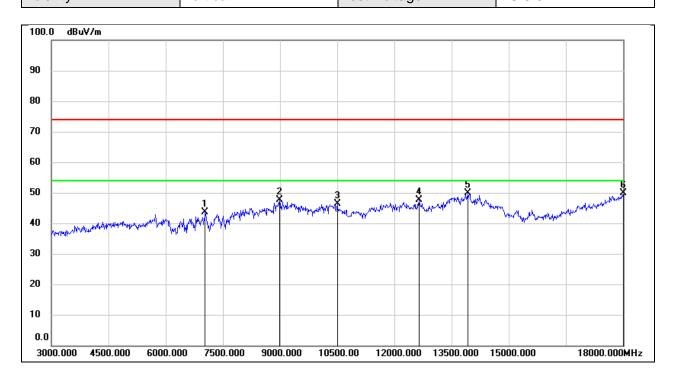


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6000.000	38.35	3.11	41.46	74.00	-32.54	peak
2	7035.000	36.97	7.28	44.25	74.00	-29.75	peak
3	8985.000	35.91	10.97	46.88	74.00	-27.12	peak
4	11640.000	31.02	17.14	48.16	74.00	-25.84	peak
5	13635.000	28.29	21.83	50.12	74.00	-23.88	peak
6	17985.000	23.04	26.77	49.81	74.00	-24.19	peak



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

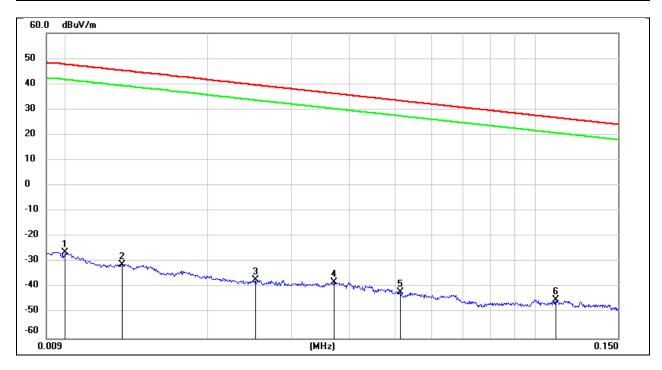


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.46	7.28	43.74	74.00	-30.26	peak
2	8985.000	36.55	10.97	47.52	74.00	-26.48	peak
3	10500.000	32.59	13.70	46.29	74.00	-27.71	peak
4	12645.000	29.30	18.44	47.74	74.00	-26.26	peak
5	13920.000	27.13	22.71	49.84	74.00	-24.16	peak
6	18000.000	22.94	26.83	49.77	74.00	-24.23	peak

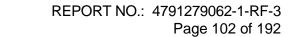
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8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

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

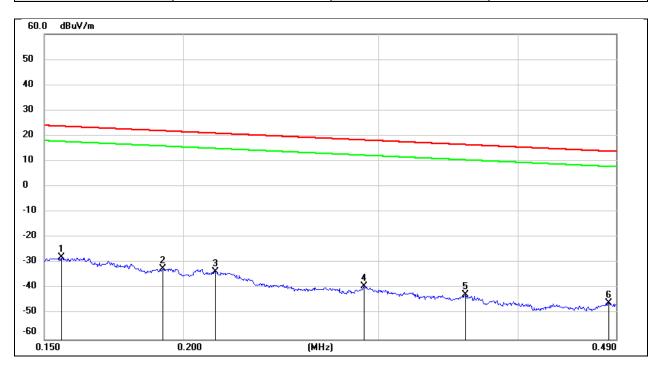


No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	75.22	-101.40	-26.18	47.60	-77.68	-3.90	-73.78	peak
2	0.0131	70.47	-101.38	-30.91	45.25	-82.41	-6.25	-76.16	peak
3	0.0252	64.32	-101.37	-37.05	39.57	-88.55	-11.93	-76.62	peak
4	0.0371	63.39	-101.42	-38.03	36.21	-89.53	-15.29	-74.24	peak
5	0.0514	59.68	-101.48	-41.80	33.38	-93.30	-18.12	-75.18	peak
6	0.1102	56.81	-101.77	-44.96	26.76	-96.46	-24.74	-71.72	peak





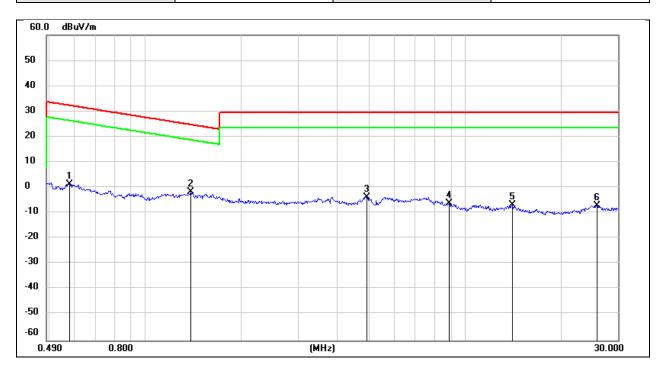
Test Mode: 802.11b Frequency(MHz): 2412
Polarity: Horizontal Test Voltage: DC 3.3V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	73.75	-101.65	-27.90	23.77	-79.40	-27.73	-51.67	peak
2	0.1917	69.54	-101.70	-32.16	21.95	-83.66	-29.55	-54.11	peak
3	0.2139	68.18	-101.74	-33.56	21.00	-85.06	-30.50	-54.56	peak
4	0.2908	62.77	-101.85	-39.08	18.33	-90.58	-33.17	-57.41	peak
5	0.3588	59.41	-101.91	-42.50	16.50	-94.00	-35.00	-59.00	peak
6	0.4823	56.19	-102.04	-45.85	13.94	-97.35	-37.56	-59.79	peak



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

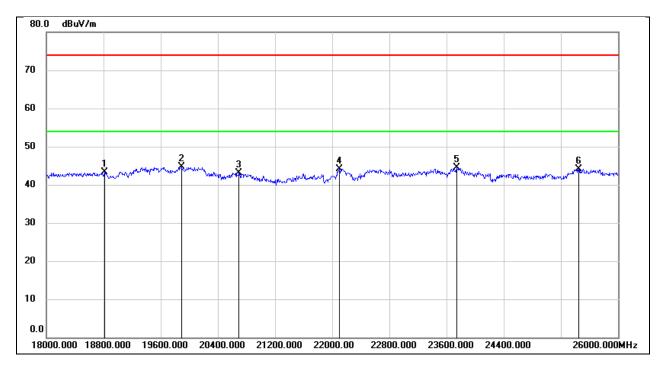


No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5785	63.40	-62.08	1.32	32.36	-50.18	-19.14	-31.04	peak
2	1.3810	60.47	-62.10	-1.63	24.80	-53.13	-26.70	-26.43	peak
3	4.9165	57.88	-61.48	-3.60	29.54	-55.10	-21.96	-33.14	peak
4	8.9001	54.91	-60.95	-6.04	29.54	-57.54	-21.96	-35.58	peak
5	14.0646	54.15	-60.97	-6.82	29.54	-58.32	-21.96	-36.36	peak
6	25.8094	53.41	-60.37	-6.96	29.54	-58.46	-21.96	-36.50	peak

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8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

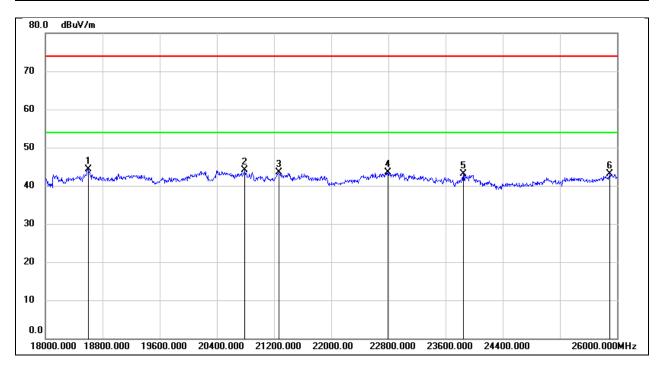
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 3.3V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18816.000	48.71	-5.38	43.33	74.00	-30.67	peak
2	19888.000	50.07	-5.36	44.71	74.00	-29.29	peak
3	20696.000	48.21	-5.16	43.05	74.00	-30.95	peak
4	22096.000	48.54	-4.38	44.16	74.00	-29.84	peak
5	23744.000	47.65	-3.20	44.45	74.00	-29.55	peak
6	25448.000	45.83	-1.76	44.07	74.00	-29.93	peak



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

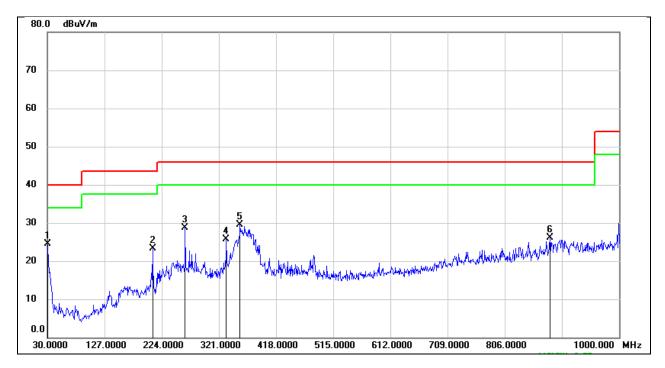


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18600.000	49.70	-5.32	44.38	74.00	-29.62	peak
2	20792.000	49.16	-5.07	44.09	74.00	-29.91	peak
3	21264.000	48.35	-4.76	43.59	74.00	-30.41	peak
4	22792.000	47.11	-3.65	43.46	74.00	-30.54	peak
5	23848.000	46.18	-3.03	43.15	74.00	-30.85	peak
6	25896.000	44.02	-0.87	43.15	74.00	-30.85	peak

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8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

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

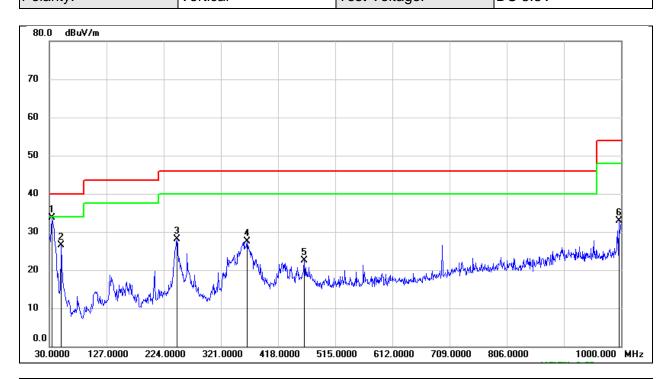


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	37.81	-13.34	24.47	40.00	-15.53	QP
2	208.4800	35.82	-12.48	23.34	43.50	-20.16	QP
3	263.7700	42.72	-13.94	28.78	46.00	-17.22	QP
4	333.6099	35.99	-10.28	25.71	46.00	-20.29	QP
5	356.8900	39.15	-9.56	29.59	46.00	-16.41	QP
6	882.6300	27.97	-1.79	26.18	46.00	-19.82	QP



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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	34.8500	47.84	-14.14	33.70	40.00	-6.30	QP
2	50.3700	42.07	-15.58	26.49	40.00	-13.51	QP
3	246.3100	42.59	-14.55	28.04	46.00	-17.96	QP
4	365.6200	37.07	-9.62	27.45	46.00	-18.55	QP
5	462.6200	30.86	-8.36	22.50	46.00	-23.50	QP
6	996.1200	34.19	-1.26	32.93	54.00	-21.07	QP



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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

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

Please refer to FCC part 15.247(b)(4)

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

DESCRIPTION

Pass

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10. AC POWER LINE CONDUCTED EMISSION

LIMITS

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

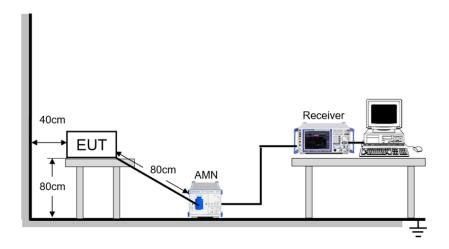
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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





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TEST ENVIRONMENT

Temperature	24.1℃	Relative Humidity	64.6%
Atmosphere Pressure	101kPa	Test Voltage	

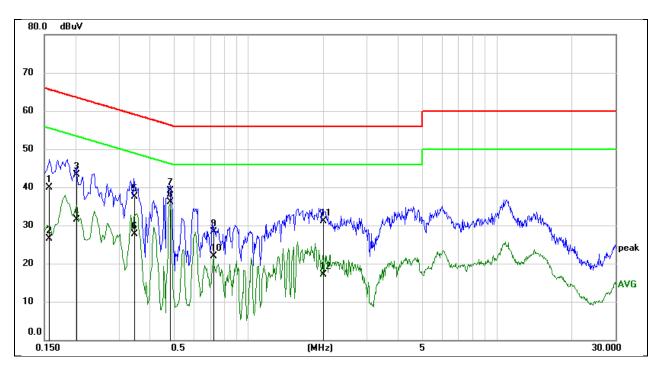
TEST DATE / ENGINEER

Test Date	May 28, 2024	Test By	Wite Chen

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TEST RESULTS

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1575	29.76	10.22	39.98	65.59	-25.61	QP
2	0.1575	16.37	10.22	26.59	55.59	-29.00	AVG
3	0.2028	33.11	10.14	43.25	63.50	-20.25	QP
4	0.2028	21.44	10.14	31.58	53.50	-21.92	AVG
5	0.3464	27.35	10.09	37.44	59.05	-21.61	QP
6	0.3464	17.58	10.09	27.67	49.05	-21.38	AVG
7	0.4814	29.09	10.05	39.14	56.31	-17.17	QP
8	0.4814	26.12	10.05	36.17	46.31	-10.14	AVG
9	0.7255	18.33	10.01	28.34	56.00	-27.66	QP
10	0.7255	11.94	10.01	21.95	46.00	-24.05	AVG
11	2.0130	21.03	10.04	31.07	56.00	-24.93	QP
12	2.0130	7.13	10.04	17.17	46.00	-28.83	AVG

Note:

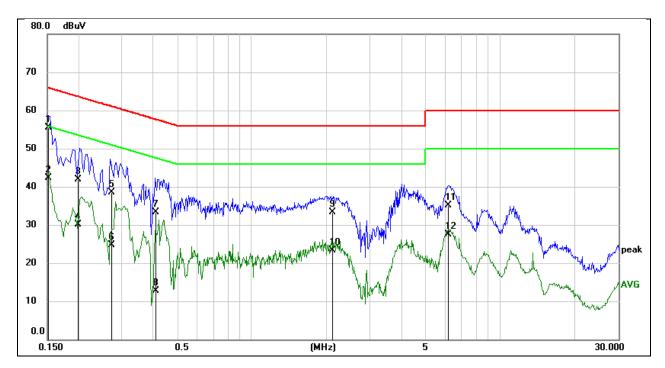
- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

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



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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1518	45.20	10.24	55.44	65.90	-10.46	QP
2	0.1518	32.02	10.24	42.26	55.90	-13.64	AVG
3	0.1995	31.81	10.14	41.95	63.63	-21.68	QP
4	0.1995	20.05	10.14	30.19	53.63	-23.44	AVG
5	0.2741	28.33	10.12	38.45	60.99	-22.54	QP
6	0.2741	14.61	10.12	24.73	50.99	-26.26	AVG
7	0.4124	23.18	10.07	33.25	57.60	-24.35	QP
8	0.4124	2.58	10.07	12.65	47.60	-34.95	AVG
9	2.1140	23.31	10.06	33.37	56.00	-22.63	QP
10	2.1140	13.31	10.06	23.37	46.00	-22.63	AVG
11	6.2340	24.70	10.40	35.10	60.00	-24.90	QP
12	6.2340	17.07	10.40	27.47	50.00	-22.53	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
	Ant1	2412	7.08	2408.48	2415.56	≥0.5	PASS
	Ant2	2412	7.12	2408.44	2415.56	≥0.5	PASS
440	Ant1	2437	7.12	2433.44	2440.56	≥0.5	PASS
11B	Ant2	2437	7.12	2433.44	2440.56	≥0.5	PASS
	Ant1	2462	7.12	2458.44	2465.56	≥0.5	PASS
	Ant2	2462	7.12	2458.44	2465.56	≥0.5	PASS
	Ant1	2412	15.84	2404.08	2419.92	≥0.5	PASS
	Ant2	2412	15.12	2404.44	2419.56	≥0.5	PASS
11G	Ant1	2437	16.32	2428.84	2445.16	≥0.5	PASS
110	Ant2	2437	15.80	2429.08	2444.88	≥0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	≥0.5	PASS
	Ant2	2462	16.32	2453.84	2470.16	≥0.5	PASS
	Ant1	2412	17.56	2403.20	2420.76	≥0.5	PASS
	Ant2	2412	17.28	2403.48	2420.76	≥0.5	PASS
111120111110	Ant1	2437	17.56	2428.20	2445.76	≥0.5	PASS
11N20MIMO	Ant2	2437	17.56	2428.20	2445.76	≥0.5	PASS
	Ant1	2462	17.60	2453.20	2470.80	≥0.5	PASS
	Ant2	2462	17.56	2453.20	2470.76	≥0.5	PASS
	Ant1	2422	35.12	2404.48	2439.60	≥0.5	PASS
	Ant2	2422	35.12	2404.48	2439.60	≥0.5	PASS
11N40MIMO	Ant1	2437	35.12	2419.48	2454.60	≥0.5	PASS
1 TIN4UIVIIIVIO	Ant2	2437	35.12	2419.48	2454.60	≥0.5	PASS
	Ant1	2452	35.12	2434.48	2469.60	≥0.5	PASS
	Ant2	2452	35.12	2434.48	2469.60	≥0.5	PASS
	Ant1	2412	17.52	2403.48	2421.00	≥0.5	PASS
	Ant2	2412	17.44	2403.60	2421.04	≥0.5	PASS
11AX20MIMO	Ant1	2437	17.04	2428.56	2445.60	≥0.5	PASS
TTAAZUIVIIIVIO	Ant2	2437	18.56	2427.68	2446.24	≥0.5	PASS
	Ant1	2462	17.56	2453.24	2470.80	≥0.5	PASS
	Ant2	2462	18.72	2452.64	2471.36	≥0.5	PASS
	Ant1	2422	37.60	2403.20	2440.80	≥0.5	PASS
	Ant2	2422	37.60	2403.20	2440.80	≥0.5	PASS
11AX40MIMO	Ant1	2437	37.28	2418.20	2455.48	≥0.5	PASS
I I AX4UIVIIIVIO	Ant2	2437	36.40	2418.20	2454.60	≥0.5	PASS
	Ant1	2452	37.04	2433.44	2470.48	≥0.5	PASS
	Ant2	2452	37.04	2433.20	2470.24	≥0.5	PASS

11.1.2. Test Graphs

