



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

TEST REPORT

For

Briefcase Smart Screen

MODEL NUMBER: AP2718T

FCC ID: 2ABC5-E0048

REPORT NUMBER: 4791136142.3-1-RF-1

ISSUE DATE: January 24, 2024

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	January 24, 2024	Initial Issue	



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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	1	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass
Radiated Band edge and Spurious Emission ANSI C63.10-2013, Clause 11.12 & Clause 11.13		FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Duty Cycle ANSI C63.10-2013, Clause 11.6		None; for reporting purposes only.	Pass

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

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C and 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: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang

Street, Baoan, Shenzhen, China.

Manufacturer Information

Company Name: SHENZHEN ELECTRON TECHNOLOGY CO., LTD.

Address: Bld.2, Yingfeng Industrial Zone, Tantou Community, Songgang

Street, Baoan, Shenzhen, China.

EUT Information

EUT Name: Briefcase Smart Screen

Model: AP2718T Brand: ApoloSign

Sample Received Date: January 3, 2024

Sample ID: 6796683

Date of Tested: January 3, 2024 to January 16, 2024

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

Prepared By:	Checked By:	
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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:

Uncertainty
3.62 dB
2.2 dB
4.00 dB
5.78 dB (1 GHz ~ 18 GHz)
5.23 dB (18 GHz ~ 26 GHz)
±0.028%
±0.0196%
±0.686 dB
±0.743 dB
±1.328 dB
±0.746 dB (9 kHz ~ 1 GHz)
±1.328dB (1 GHz ~ 26 GHz)

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



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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Briefcase Smart Screen
Model	AP2718T

Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n HT20, IEEE 802.11ax HE20
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (256QAM, 64-QAM, 16-QAM, QPSK, BPSK)
Normal Test Voltage:	AC 120 V, 60 Hz

5.2. CHANNEL LIST

	Channel List For Bandwidth=20 MHz						
Channel	Frequency (MHz)	Channel Channel 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	1	1

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	20.04
g	2412 ~ 2462	1-11[11]	18.09
n HT20	2412 ~ 2462	1-11[11]	17.07
ax HE20	2412 ~ 2462	1-11[11]	16.39

5.4. TEST CHANNEL CONFIGURATION

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



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5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band								
Test Softw	/are		adb					
	Transmit			Test C	Channel			
Modulation Mode	Antenna		NCB: 20MH	lz	١	NCB: 40MHz		
WIOGC	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	17	17	16				
002.110	2	17	17	16				
902 11a	1	15	15	14	,			
802.11g	2	15	15	14		/		
802.11n HT20	1	14	14	13				
002.1111 1120	2	14	14	13				
902 11av UE20	1	13	13	12		1		
802.11ax HE20	2	13	13	12	1 /			



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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 802.11ax HE20 mode: MCS0

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.

For 802.11n/ax mode, the EUT support Cyclic Shift Diversity (CDD) and TX Beamforming. The power setting of TX Beamforming mode is reduced 3 by CDD mode. The conducted power of CDD mode is higher than TX Beamforming mode, and the EIRP of CDD is the same as TX Beamforming 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	Maximum Antenna Gain (dBi)	
1	2412-2462	FPC	2.78	
2	2412-2462	FPC	2.76	

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 = 2.78 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} ≤ 4

For power spectral density (PSD) measurements:

Directional gain= GANT + Array Gain = 5.79 dBi

Array Gain = 10 log(Nant/Nss) dB. N_{ANT}: 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 802.11ax HE20	⊠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	Remarks
1	Laptop	ThinkPad	X230i	1

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	Unshielded	1.0	1
2	USB	1	Unshielded	1.0	/
3	USB	1	Unshielded	1.0	1
4	HDMI	1	Unshielded	1.0	1
5	AC In	/	Unshielded	1.0	/

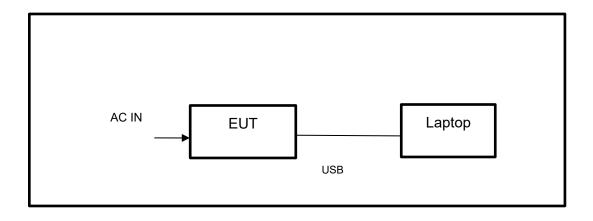
ACCESSORIES

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

TEST SETUP

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

SETUP DIAGRAM FOR TESTS





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6. MEASURING EQUIPMENT AND SOFTWARE USED

	R&S TS 8997 Test System									
Equipment Man			nufac	turer	Model	No.	Serial No.	Last 0	Cal.	Due. Date
Power sensor, Power M	leter		R&S	3	OSP1	20	100921	Mar.31,	2023	Mar.30,2024
Vector Signal General	tor		R&S	3	SMBV1	00A	261637	Oct.12,	2023	Oct.11, 2024
Signal Generator			R&S	3	SMB10)0A	178553	Oct.12,	2023	Oct.11, 2024
Signal Analyzer			R&S	3	FSV4	.0	101118	Oct.12,	2023	Oct.11, 2024
					Softwa	re				
Description			N	<i>M</i> anuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em	Rol	hde &	Schwar	z	EMC	32		10.60.10
	Tonsend RF Test System									
Equipment	Man	ufac	turer	Mod	del No.	S	erial No.	Last 0	Cal.	Due. Date
Wideband Radio Communication Tester		R&S	6	СМ	W500		155523	Oct.12,	2023	Oct.11, 2024
Wireless Connectivity Tester		R&S	3	СМ	W270	120 ⁻	1.0002N75- 102	Sep.25,	2023	Sep.24, 2024
PXA Signal Analyzer	Κe	eysiç	ght	N9	030A	MY	′55410512	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	eysiç	ght	N5	182B	MY	′56200284	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	Ke	eysiç	ght	N5	172B	MY	′56200301	Oct.12,	2023	Oct.11, 2024
DC power supply	Κe	eysiç	ght	E3	642A	MY	′55159130	Oct.12,	2023	Oct.11, 2024
Temperature & Humidity Chamber	SAN	VMC	OOD	SG-8	80-CC-2		2088	Oct.12,	2023	Oct.11, 2024
Attenuator	А	glie	glient 84		195B	28	14a12853	Oct.12,	2023	Oct.11, 2024
RF Control Unit	То	nscend JS08		806-2	23E	380620666	April 18,	2023	April 17, 2024	
					Softwa	re				
Description		Mar	nufact	urer	er Name				Version	
Tonsend SRD Test Syst	tem	Т	onser	nd	JS1	120-3	3 RF Test S	ystem		V3.2.22

Co., Ltd, Song Shan Lake Branch.



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

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	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	Emissions	Farad	EZ-EMC	Ver. UL-3A1			

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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

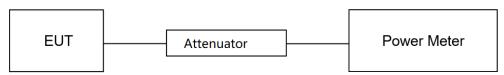
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	24.5 ℃	Relative Humidity	45.9%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

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 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5			

TEST PROCEDURE

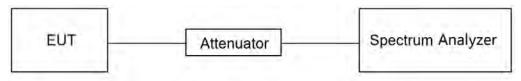
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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

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

- a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP





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TEST ENVIRONMENT

Temperature	24.5 ℃	Relative Humidity	45.9%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

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)			
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.

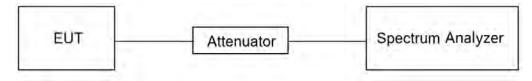
Connect the EUT to the spectrum analyzer and use the following settings:

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



TEST ENVIRONMENT

Temperature	24.5 ℃	Relative Humidity	45.9%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

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	CFR 47 FCC §15.247 (d) Conducted at least 30 dB below that in the 100 kHz		

TEST PROCEDURE

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

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

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

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

Change the settings for emission level measurement:

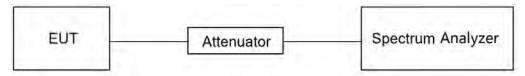
Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

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



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TEST SETUP



TEST ENVIRONMENT

Temperature	24.5 ℃	Relative Humidity	45.9%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

TEST RESULTS

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



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7.5. DUTY CYCLE

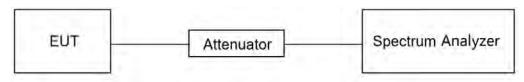
LIMITS

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	24.5 ℃	Relative Humidity	45.9%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

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	Field Strength Limit	Field Streng	th Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-P	eak eak
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
About 4000	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	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1845.5 - 1848.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

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

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

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



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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

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

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode 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.



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Above 1 GHz

The setting of the spectrum analyzer

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

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 1.5 m above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
- 6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

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



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For Restricted Bandedge:

Note:

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

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

Note:

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

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.

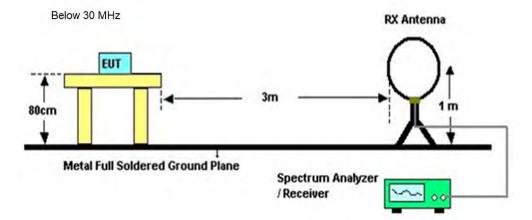
For Radiate Spurious emission (18 GHz ~ 26 GHz):

Note:

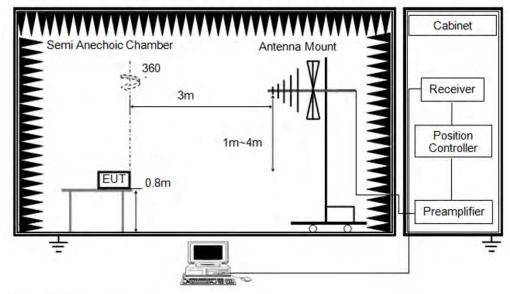
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes have been tested, but only the worst data was recorded in the report.



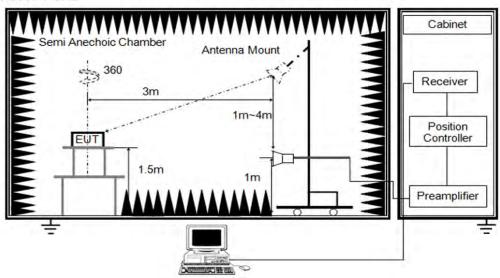
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz





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TEST ENVIRONMENT

Temperature	24.5 ℃	Relative Humidity	57%
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

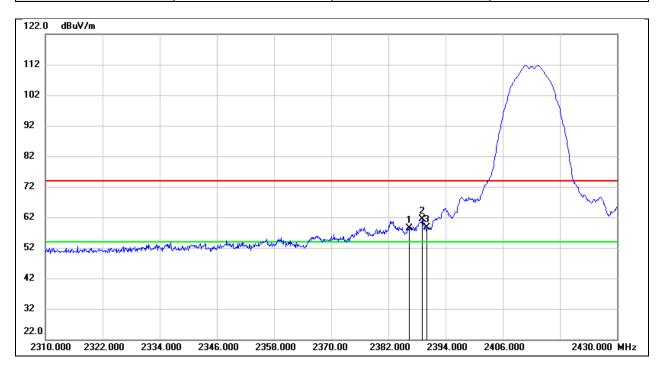
TEST RESULTS



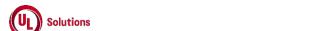
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8.1. RESTRICTED BANDEDGE

Test Mode:	802.11b PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

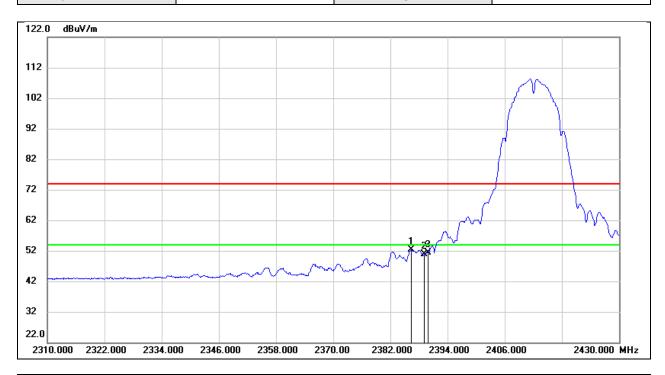


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.320	26.17	32.14	58.31	74.00	-15.69	peak
2	2389.080	29.23	32.16	61.39	74.00	-12.61	peak
3	2390.000	26.46	32.16	58.62	74.00	-15.38	peak



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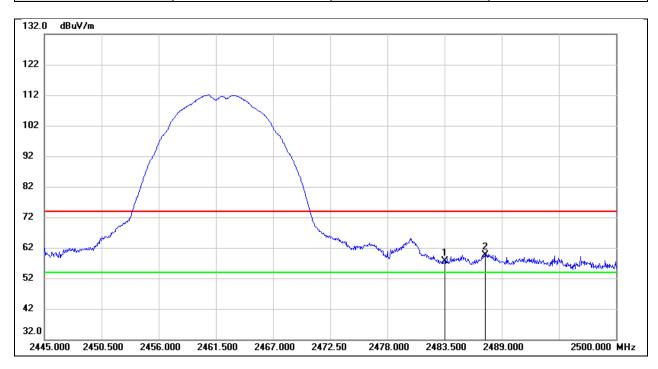
Test Mode:	802.11b AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.320	20.16	32.14	52.30	54.00	-1.70	AVG
2	2389.080	18.60	32.16	50.76	54.00	-3.24	AVG
3	2390.000	19.13	32.16	51.29	54.00	-2.71	AVG



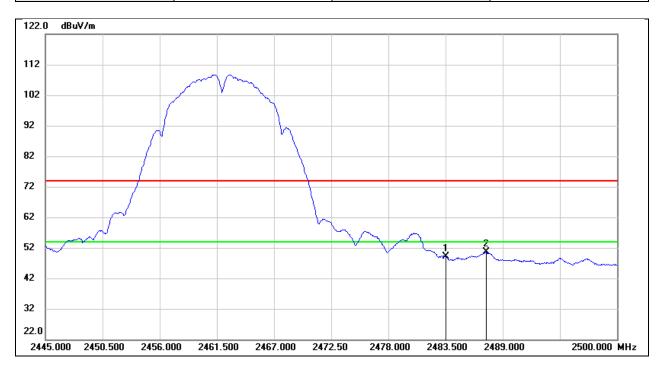
Test Mode:	802.11b PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	25.15	32.44	57.59	74.00	-16.41	peak
2	2487.405	27.07	32.45	59.52	74.00	-14.48	peak



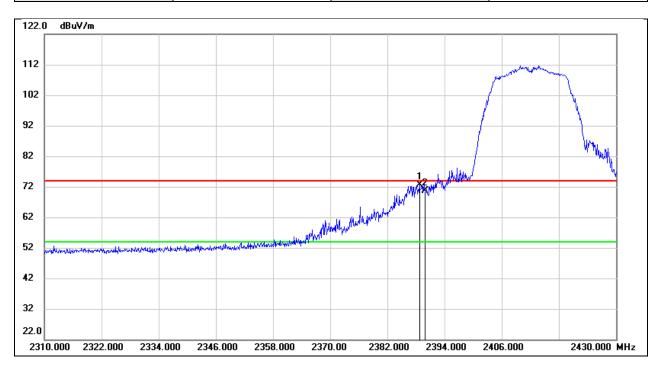
Test Mode:	802.11b AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	16.59	32.44	49.03	54.00	-4.97	AVG
2	2487.405	18.13	32.45	50.58	54.00	-3.42	AVG



Test Mode:	802.11g PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

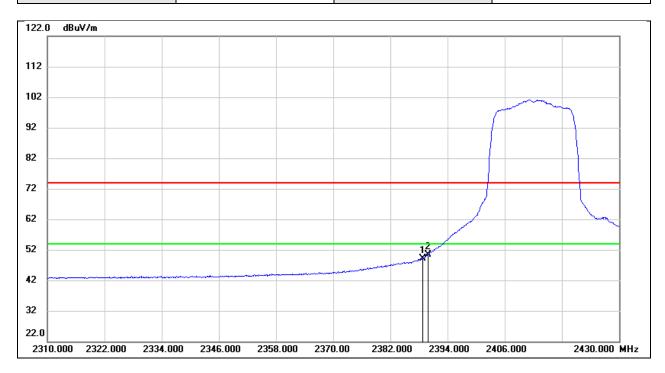


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.720	40.47	32.16	72.63	74.00	-1.37	peak
2	2390.000	38.35	32.16	70.51	74.00	-3.49	peak



Test Mode: 802.11g AV Frequency(MHz): 2412

Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

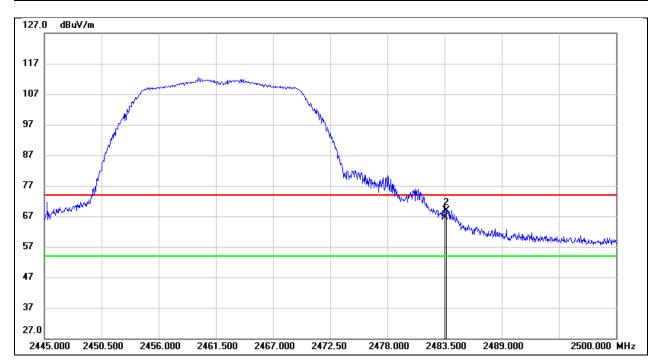


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.720	17.04	32.16	49.20	54.00	-4.80	AVG
2	2390.000	18.32	32.16	50.48	54.00	-3.52	AVG





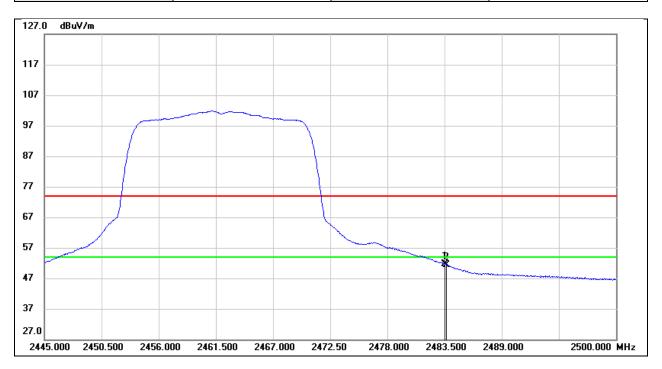
Test Mode:	802.11g PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	34.21	32.44	66.65	74.00	-7.35	peak
2	2483.665	36.52	32.44	68.96	74.00	-5.04	peak



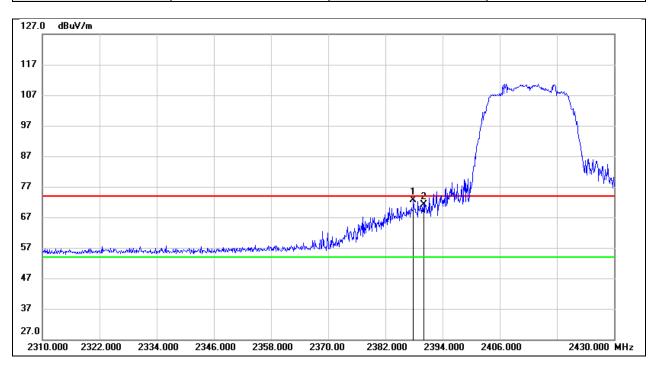
Test Mode:	802.11g AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	19.23	32.44	51.67	54.00	-2.33	AVG
2	2483.665	18.82	32.44	51.26	54.00	-2.74	AVG



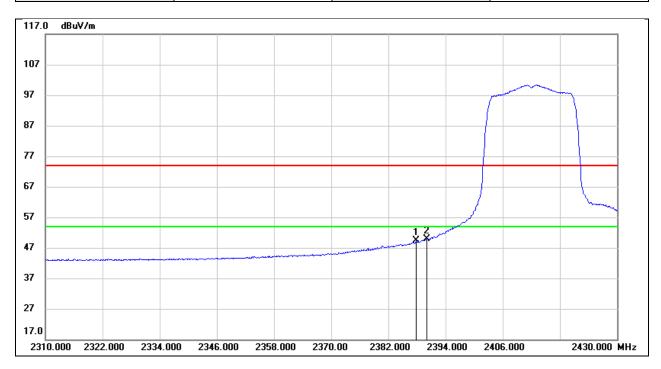
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.880	40.50	32.16	72.66	74.00	-1.34	peak
2	2390.000	38.95	32.16	71.11	74.00	-2.89	peak



Test Mode:	802.11n HT20 AV	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

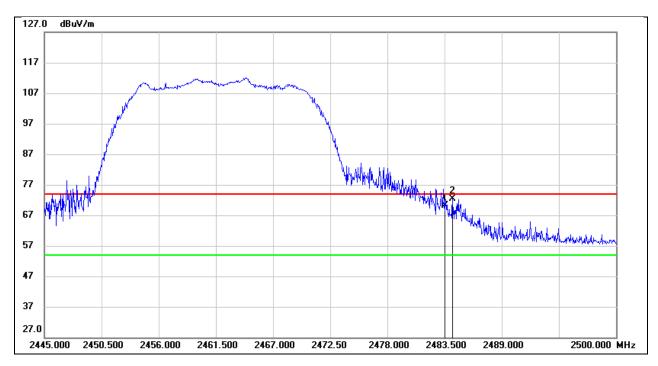


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.880	17.16	32.16	49.32	54.00	-4.68	AVG
2	2390.000	17.64	32.16	49.80	54.00	-4.20	AVG



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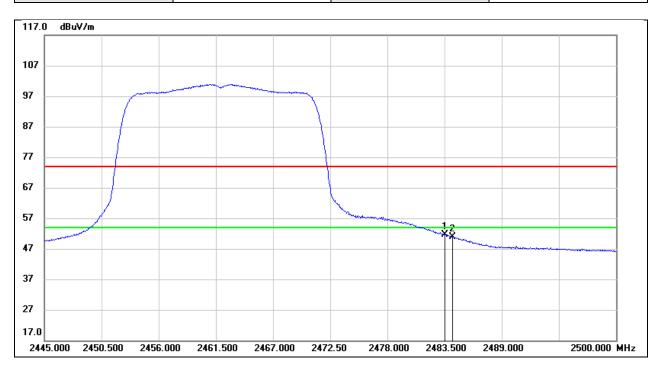
Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.70	32.44	70.14	74.00	-3.86	peak
2	2484.270	39.82	32.44	72.26	74.00	-1.74	peak



Test Mode: 802.11n HT20 AV Frequency(MHz): 2462
Polarity: Test Voltage: AC 120 V, 60 Hz

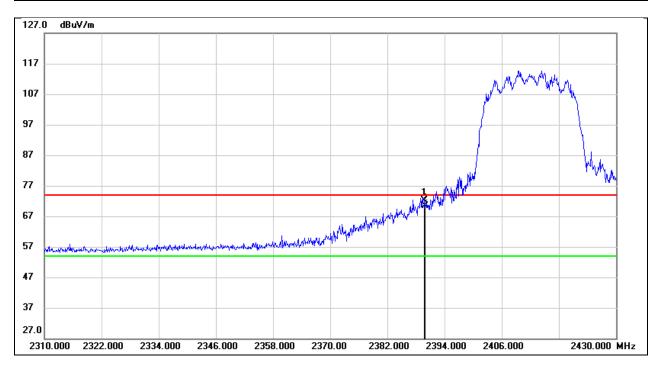


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	19.11	32.44	51.55	54.00	-2.45	AVG
2	2484.270	18.51	32.44	50.95	54.00	-3.05	AVG



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Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



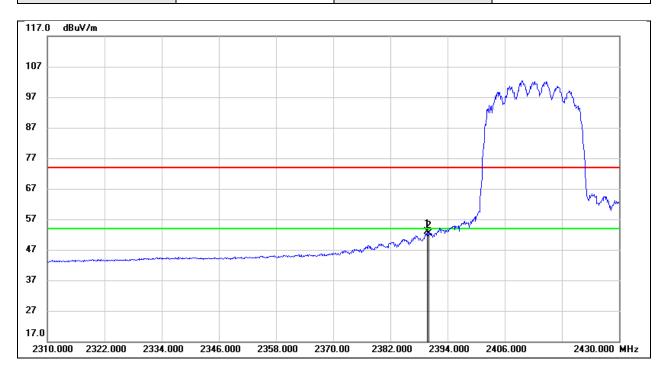
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.680	39.87	32.16	72.03	74.00	-1.97	peak
2	2390.000	38.28	32.16	70.44	74.00	-3.56	peak



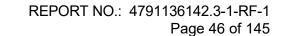
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Test Mode: 802.11ax HE20 AV Frequency(MHz): 2412

Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

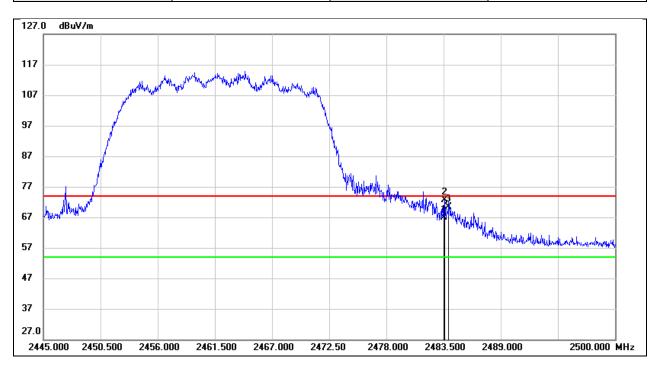


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.680	20.70	32.16	52.86	54.00	-1.14	AVG
2	2390.000	20.22	32.16	52.38	54.00	-1.62	AVG





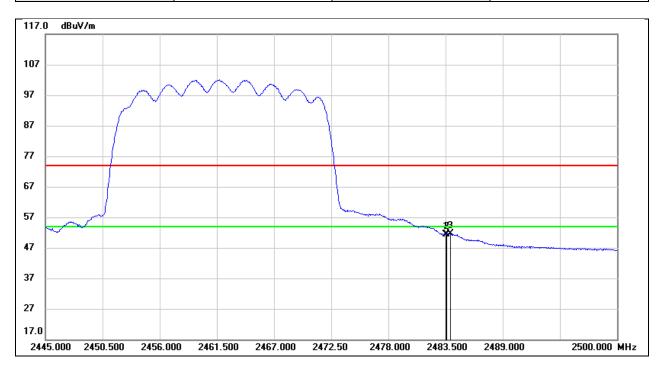
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	34.40	32.44	66.84	74.00	-7.16	peak
2	2483.610	40.20	32.44	72.64	74.00	-1.36	peak
3	2483.995	37.88	32.44	70.32	74.00	-3.68	peak



Test Mode:	802.11ax HE20 AV	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

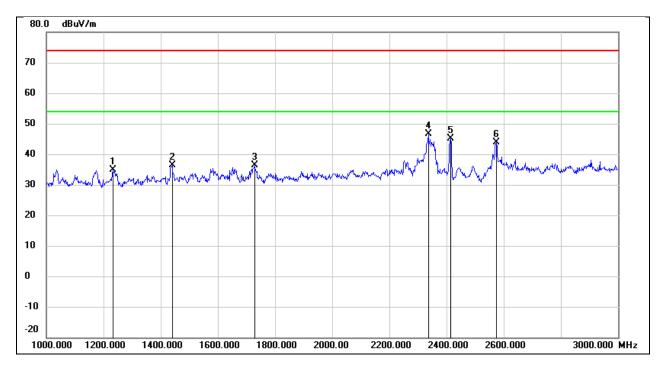


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	18.83	32.44	51.27	54.00	-2.73	AVG
2	2483.610	18.90	32.44	51.34	54.00	-2.66	AVG
3	2483.995	19.14	32.44	51.58	54.00	-2.42	AVG

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8.2. SPURIOUS EMISSIONS (1 GHZ ~ 3 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

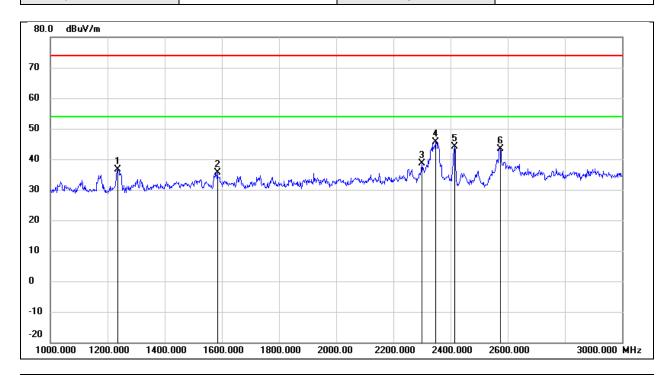


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1232.000	48.74	-13.95	34.79	74.00	-39.21	peak
2	1440.000	49.35	-12.98	36.37	74.00	-37.63	peak
3	1728.000	48.22	-11.95	36.27	74.00	-37.73	peak
4	2336.000	56.04	-9.33	46.71	74.00	-27.29	peak
5	2412.000	54.13	-8.93	45.20	/	/	Fundamental
6	2574.000	52.05	-8.27	43.78	74.00	-30.22	peak



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Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



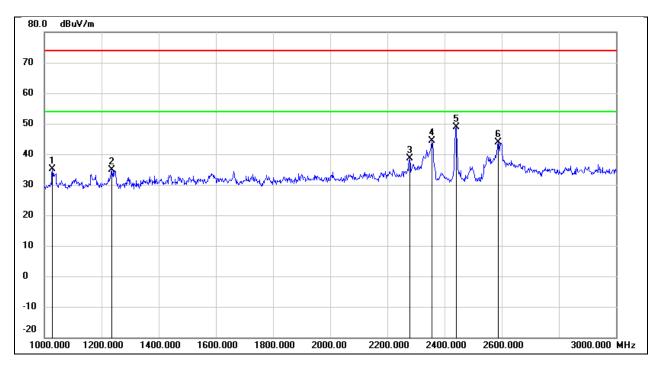
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1236.000	50.67	-13.94	36.73	74.00	-37.27	peak
2	1584.000	47.95	-12.43	35.52	74.00	-38.48	peak
3	2300.000	48.11	-9.52	38.59	74.00	-35.41	peak
4	2348.000	54.84	-9.28	45.56	74.00	-28.44	peak
5	2412.000	53.16	-8.93	44.23	1	/	Fundamental
6	2574.000	51.72	-8.27	43.45	74.00	-30.55	peak



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Test Mode: 802.11b Frequency(MHz): 2437

Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

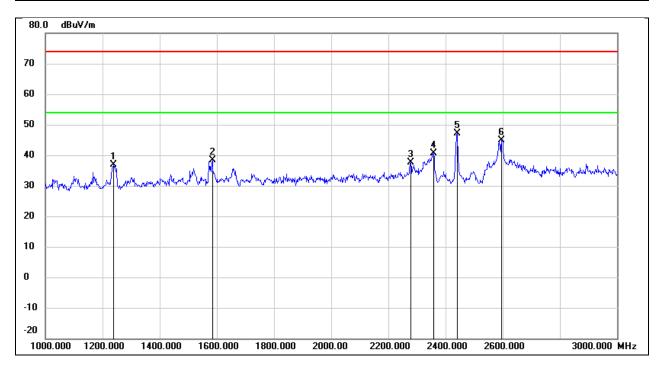


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1028.000	50.10	-14.90	35.20	74.00	-38.80	peak
2	1236.000	48.77	-13.94	34.83	74.00	-39.17	peak
3	2278.000	48.22	-9.64	38.58	74.00	-35.42	peak
4	2356.000	53.55	-9.22	44.33	74.00	-29.67	peak
5	2437.000	57.60	-8.80	48.80	1	/	Fundamental
6	2588.000	52.13	-8.22	43.91	74.00	-30.09	peak



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Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



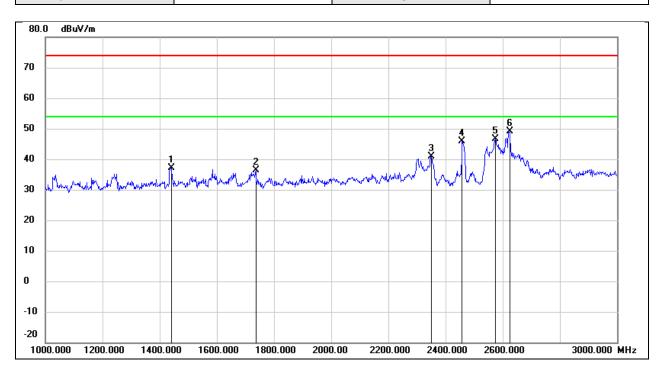
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1238.000	50.86	-13.92	36.94	74.00	-37.06	peak
2	1584.000	50.78	-12.43	38.35	74.00	-35.65	peak
3	2278.000	47.35	-9.64	37.71	74.00	-36.29	peak
4	2358.000	49.74	-9.22	40.52	74.00	-33.48	peak
5	2437.000	55.99	-8.80	47.19	1	/	Fundamental
6	2596.000	53.18	-8.20	44.98	74.00	-29.02	peak



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Test Mode: 802.11b Frequency(MHz): 2462

Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

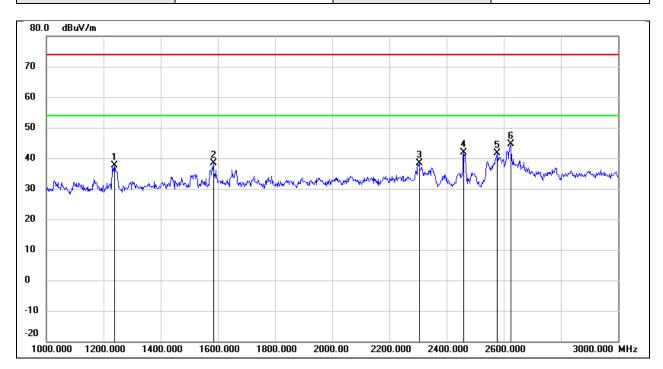


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1440.000	50.22	-12.98	37.24	74.00	-36.76	peak
2	1736.000	48.25	-11.93	36.32	74.00	-37.68	peak
3	2350.000	50.13	-9.26	40.87	74.00	-33.13	peak
4	2458.000	54.57	-8.71	45.86	74.00	-28.14	peak
5	2574.000	54.98	-8.27	46.71	74.00	-27.29	peak
6	2624.000	57.33	-8.12	49.21	74.00	-24.79	peak



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Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



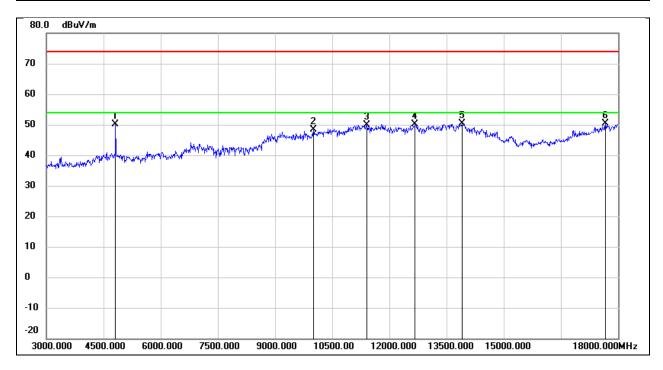
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1238.000	51.50	-13.92	37.58	74.00	-36.42	peak
2	1584.000	50.93	-12.43	38.50	74.00	-35.50	peak
3	2304.000	47.90	-9.50	38.40	74.00	-35.60	peak
4	2460.000	50.46	-8.69	41.77	74.00	-32.23	peak
5	2576.000	49.84	-8.26	41.58	74.00	-32.42	peak
6	2624.000	52.76	-8.12	44.64	74.00	-29.36	peak

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8.3. SPURIOUS EMISSIONS (3 GHZ ~ 18 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

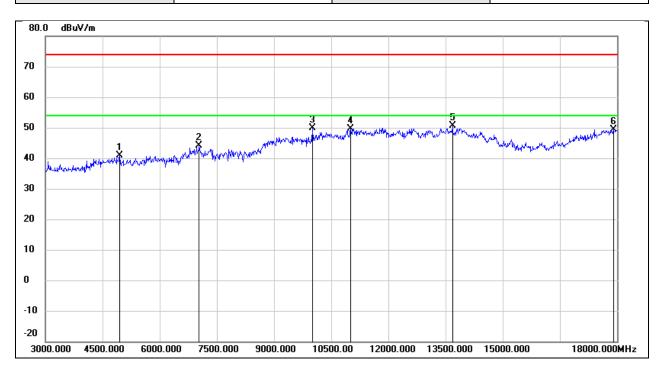


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	50.32	-0.26	50.06	74.00	-23.94	peak
2	10005.000	36.24	12.02	48.26	74.00	-25.74	peak
3	11400.000	33.62	16.23	49.85	74.00	-24.15	peak
4	12675.000	32.16	17.99	50.15	74.00	-23.85	peak
5	13905.000	28.71	21.76	50.47	74.00	-23.53	peak
6	17670.000	26.69	23.73	50.42	74.00	-23.58	peak



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Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz

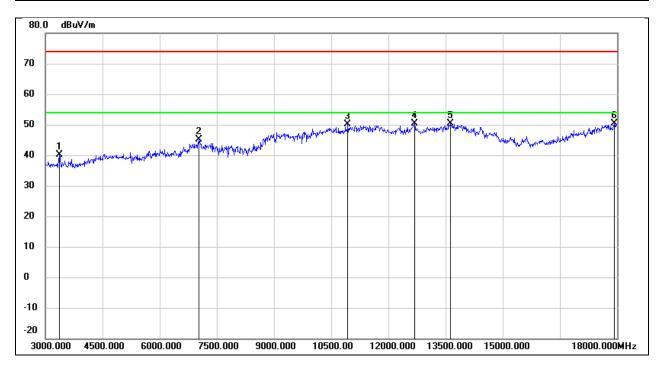


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4950.000	40.57	0.26	40.83	74.00	-33.17	peak
2	7035.000	37.58	6.67	44.25	74.00	-29.75	peak
3	10005.000	37.85	12.02	49.87	74.00	-24.13	peak
4	11010.000	34.93	14.81	49.74	74.00	-24.26	peak
5	13680.000	29.25	21.29	50.54	74.00	-23.46	peak
6	17910.000	24.17	25.16	49.33	74.00	-24.67	peak



Test Mode: 802.11b Frequency(MHz): 2437

Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz



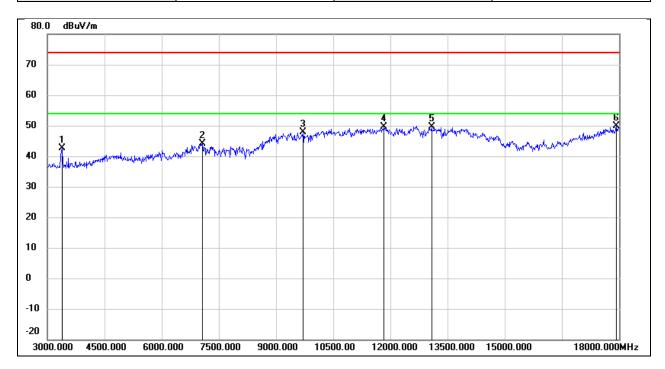
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3375.000	45.13	-5.03	40.10	74.00	-33.90	peak
2	7035.000	38.40	6.67	45.07	74.00	-28.93	peak
3	10935.000	35.60	14.54	50.14	74.00	-23.86	peak
4	12690.000	32.39	18.02	50.41	74.00	-23.59	peak
5	13635.000	29.09	21.19	50.28	74.00	-23.72	peak
6	17925.000	25.19	25.25	50.44	74.00	-23.56	peak



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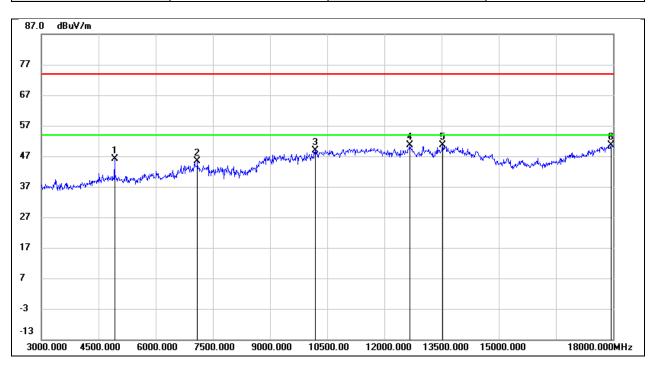
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3390.000	47.73	-5.03	42.70	74.00	-31.30	peak
2	7065.000	37.43	6.64	44.07	74.00	-29.93	peak
3	9705.000	36.71	11.23	47.94	74.00	-26.06	peak
4	11835.000	32.02	17.51	49.53	74.00	-24.47	peak
5	13080.000	30.51	19.07	49.58	74.00	-24.42	peak
6	17925.000	24.64	25.25	49.89	74.00	-24.11	peak



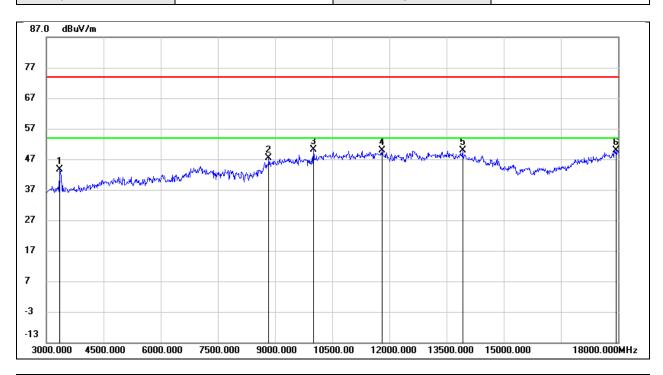
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	45.94	0.14	46.08	74.00	-27.92	peak
2	7095.000	38.75	6.62	45.37	74.00	-28.63	peak
3	10185.000	36.62	12.38	49.00	74.00	-25.00	peak
4	12660.000	32.57	17.95	50.52	74.00	-23.48	peak
5	13530.000	29.62	20.96	50.58	74.00	-23.42	peak
6	17940.000	25.35	25.34	50.69	74.00	-23.31	peak



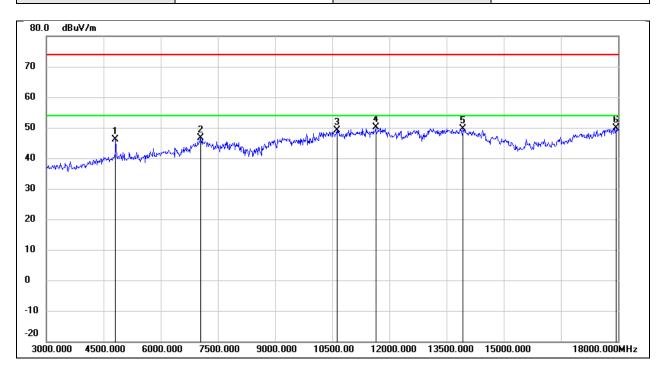
Test Mode: 802.11b Frequency(MHz): 2462
Polarity: Vertical Test Voltage: AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3345.000	48.67	-5.05	43.62	74.00	-30.38	peak
2	8835.000	38.03	9.28	47.31	74.00	-26.69	peak
3	10005.000	38.17	12.02	50.19	74.00	-23.81	peak
4	11805.000	32.33	17.43	49.76	74.00	-24.24	peak
5	13920.000	28.01	21.79	49.80	74.00	-24.20	peak
6	17955.000	24.56	25.42	49.98	74.00	-24.02	peak



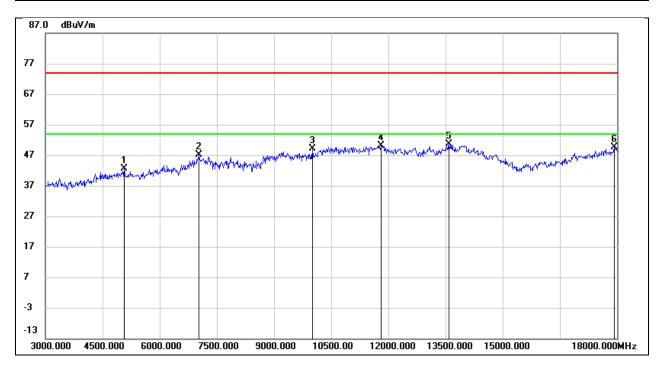
Test Mode: 802.11g Frequency(MHz): 2412
Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	46.51	-0.26	46.25	74.00	-27.75	peak
2	7050.000	40.04	6.66	46.70	74.00	-27.30	peak
3	10620.000	35.66	13.42	49.08	74.00	-24.92	peak
4	11640.000	33.05	16.98	50.03	74.00	-23.97	peak
5	13935.000	27.93	21.82	49.75	74.00	-24.25	peak
6	17955.000	24.34	25.42	49.76	74.00	-24.24	peak



Test Mode:	802.11g	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



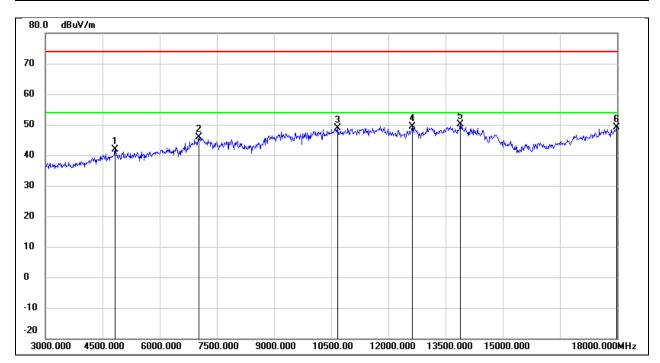
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5070.000	42.14	0.51	42.65	74.00	-31.35	peak
2	7020.000	40.36	6.67	47.03	74.00	-26.97	peak
3	10005.000	37.12	12.02	49.14	74.00	-24.86	peak
4	11805.000	32.63	17.43	50.06	74.00	-23.94	peak
5	13590.000	29.56	21.09	50.65	74.00	-23.35	peak
6	17925.000	24.30	25.25	49.55	74.00	-24.45	peak



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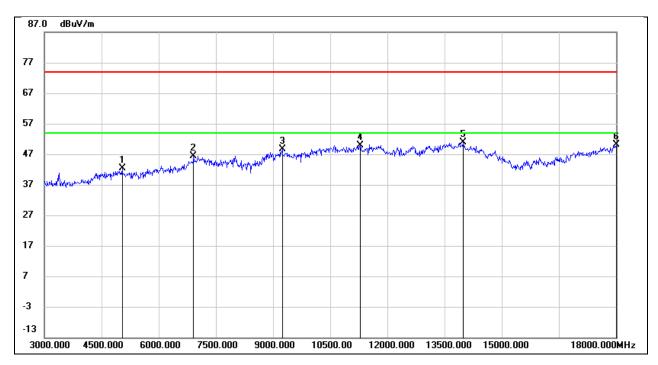
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



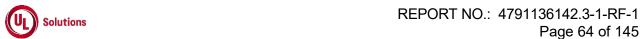
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	41.98	-0.20	41.78	74.00	-32.22	peak
2	7035.000	39.27	6.67	45.94	74.00	-28.06	peak
3	10665.000	35.21	13.58	48.79	74.00	-25.21	peak
4	12630.000	31.58	17.89	49.47	74.00	-24.53	peak
5	13890.000	28.41	21.72	50.13	74.00	-23.87	peak
6	17985.000	23.55	25.60	49.15	74.00	-24.85	peak



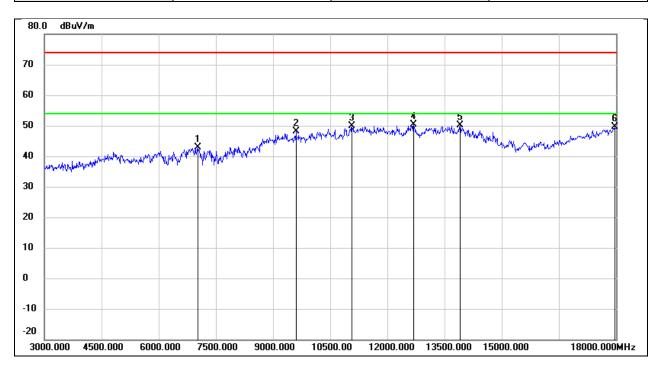
Test Mode:	802.11g	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



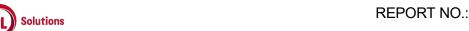
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5040.000	41.99	0.48	42.47	74.00	-31.53	peak
2	6915.000	40.22	6.27	46.49	74.00	-27.51	peak
3	9240.000	38.07	10.58	48.65	74.00	-25.35	peak
4	11295.000	34.15	15.85	50.00	74.00	-24.00	peak
5	13980.000	28.88	21.92	50.80	74.00	-23.20	peak
6	18000.000	24.55	25.69	50.24	74.00	-23.76	peak



Test Mode: 802.11g Frequency(MHz): 2462
Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

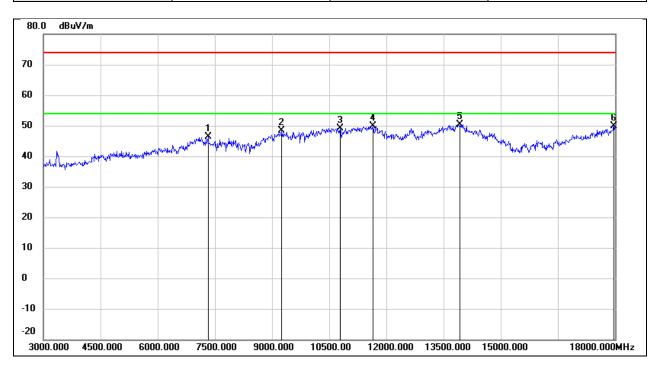


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	36.22	6.67	42.89	74.00	-31.11	peak
2	9600.000	37.27	10.95	48.22	74.00	-25.78	peak
3	11070.000	34.84	15.03	49.87	74.00	-24.13	peak
4	12690.000	32.27	18.02	50.29	74.00	-23.71	peak
5	13905.000	28.30	21.76	50.06	74.00	-23.94	peak
6	17970.000	24.12	25.51	49.63	74.00	-24.37	peak



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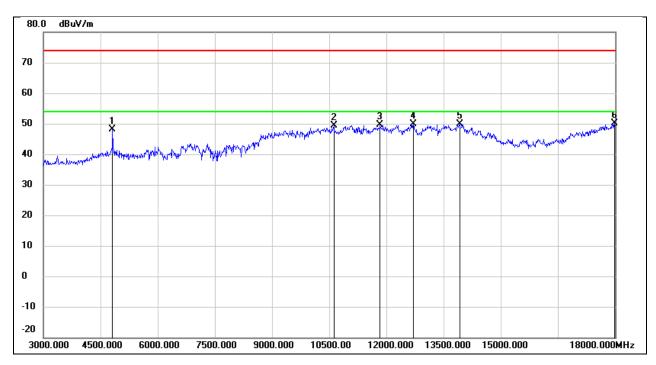
Test Mode:	802.11g	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7320.000	39.80	6.46	46.26	74.00	-27.74	peak
2	9255.000	37.74	10.59	48.33	74.00	-25.67	peak
3	10785.000	35.16	14.01	49.17	74.00	-24.83	peak
4	11640.000	32.94	16.98	49.92	74.00	-24.08	peak
5	13935.000	28.62	21.82	50.44	74.00	-23.56	peak
6	17970.000	24.33	25.51	49.84	74.00	-24.16	peak



Test Mode: 802.11n HT20 Frequency(MHz): 2412
Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

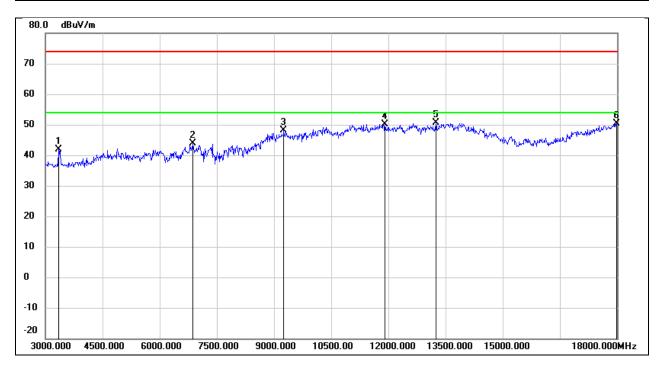


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	48.32	-0.26	48.06	74.00	-25.94	peak
2	10620.000	35.96	13.42	49.38	74.00	-24.62	peak
3	11835.000	32.04	17.51	49.55	74.00	-24.45	peak
4	12705.000	31.71	18.06	49.77	74.00	-24.23	peak
5	13920.000	28.06	21.79	49.85	74.00	-24.15	peak
6	17985.000	24.47	25.60	50.07	74.00	-23.93	peak



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Test Mode: 802.11n HT20 Frequency(MHz): 2412
Polarity: Vertical Test Voltage: AC 120 V, 60 Hz

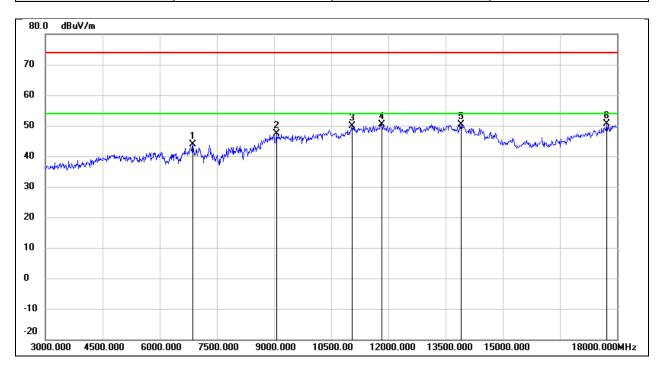


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3345.000	46.96	-5.05	41.91	74.00	-32.09	peak
2	6870.000	37.71	6.05	43.76	74.00	-30.24	peak
3	9255.000	37.42	10.59	48.01	74.00	-25.99	peak
4	11910.000	32.52	17.72	50.24	74.00	-23.76	peak
5	13245.000	30.73	19.78	50.51	74.00	-23.49	peak
6	17985.000	24.89	25.60	50.49	74.00	-23.51	peak



Test Mode: 802.11n HT20 Frequency(MHz): 2437

Polarity: Horizontal Test Voltage: AC 120 V, 60 Hz

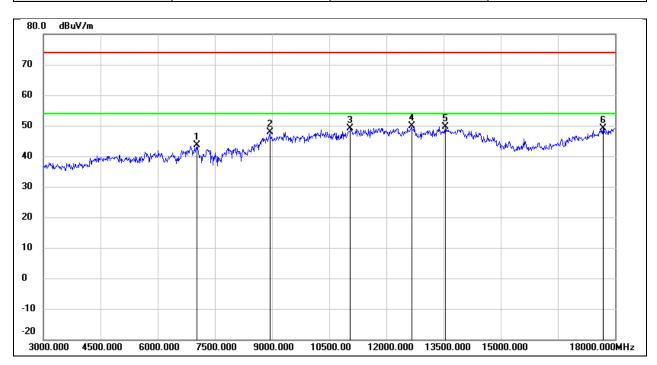


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6870.000	37.73	6.05	43.78	74.00	-30.22	peak
2	9060.000	36.87	10.51	47.38	74.00	-26.62	peak
3	11055.000	34.97	14.96	49.93	74.00	-24.07	peak
4	11835.000	32.94	17.51	50.45	74.00	-23.55	peak
5	13905.000	28.72	21.76	50.48	74.00	-23.52	peak
6	17730.000	26.60	24.09	50.69	74.00	-23.31	peak



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Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz

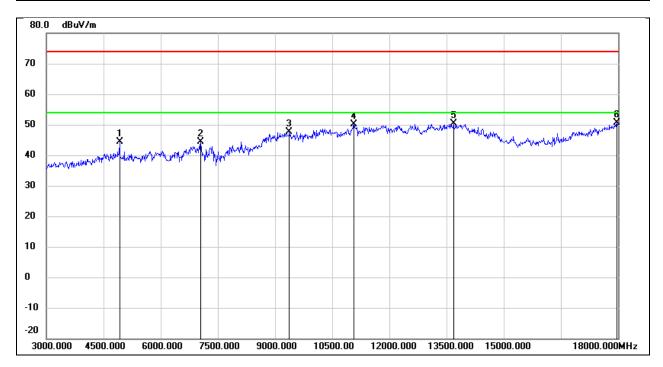


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7035.000	37.02	6.67	43.69	74.00	-30.31	peak
2	8940.000	37.78	10.04	47.82	74.00	-26.18	peak
3	11055.000	34.12	14.96	49.08	74.00	-24.92	peak
4	12660.000	32.02	17.95	49.97	74.00	-24.03	peak
5	13545.000	28.73	20.99	49.72	74.00	-24.28	peak
6	17685.000	25.36	23.82	49.18	74.00	-24.82	peak



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Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

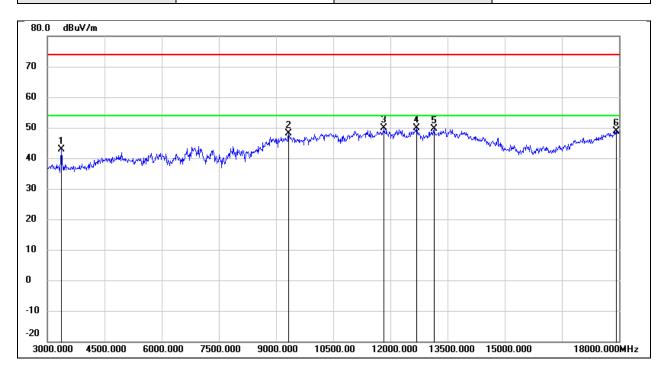


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	44.16	0.14	44.30	74.00	-29.70	peak
2	7050.000	37.68	6.66	44.34	74.00	-29.66	peak
3	9375.000	37.06	10.64	47.70	74.00	-26.30	peak
4	11070.000	35.11	15.03	50.14	74.00	-23.86	peak
5	13680.000	28.97	21.29	50.26	74.00	-23.74	peak
6	17970.000	25.13	25.51	50.64	74.00	-23.36	peak



Test Mode: 802.11n HT20 Frequency(MHz): 2462

Polarity: Vertical Test Voltage: AC 120 V, 60 Hz

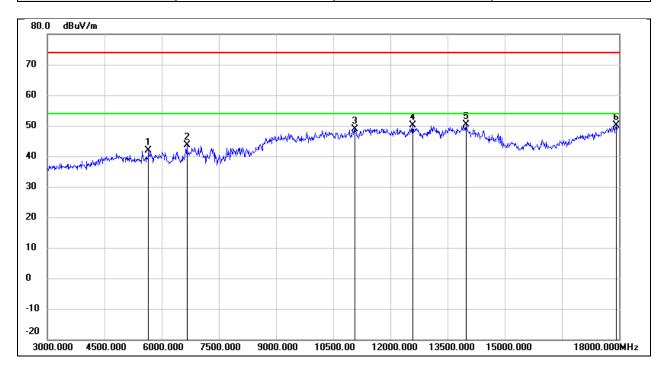


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3375.000	48.01	-5.03	42.98	74.00	-31.02	peak
2	9330.000	37.41	10.62	48.03	74.00	-25.97	peak
3	11835.000	32.31	17.51	49.82	74.00	-24.18	peak
4	12690.000	31.82	18.02	49.84	74.00	-24.16	peak
5	13140.000	30.31	19.33	49.64	74.00	-24.36	peak
6	17925.000	23.63	25.25	48.88	74.00	-25.12	peak



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Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

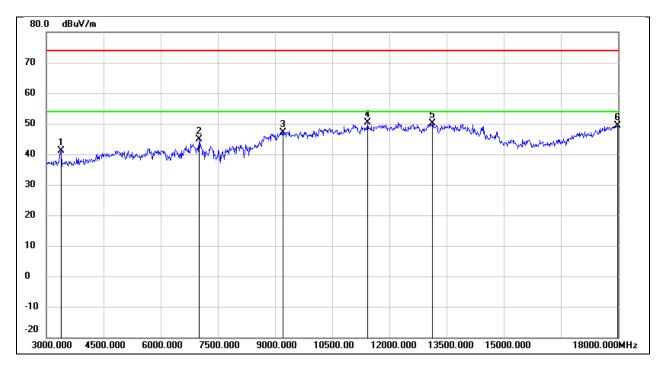


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	40.48	1.29	41.77	74.00	-32.23	peak
2	6660.000	38.68	5.02	43.70	74.00	-30.30	peak
3	11070.000	33.93	15.03	48.96	74.00	-25.04	peak
4	12585.000	32.24	17.78	50.02	74.00	-23.98	peak
5	13980.000	28.35	21.92	50.27	74.00	-23.73	peak
6	17925.000	24.92	25.25	50.17	74.00	-23.83	peak



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Test Mode:	802.11ax HE20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz

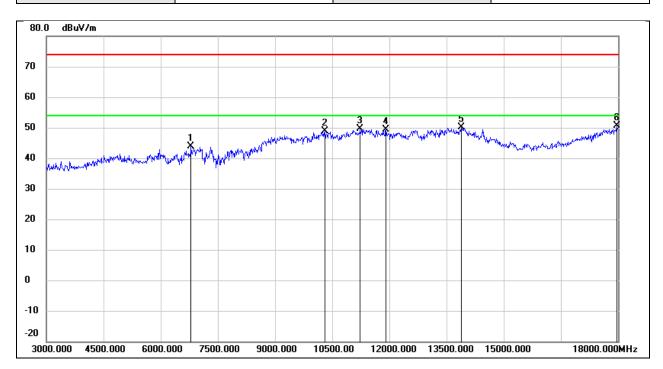


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	3390.000	46.08	-5.03	41.05	74.00	-32.95	peak
2	7005.000	38.23	6.69	44.92	74.00	-29.08	peak
3	9210.000	36.58	10.57	47.15	74.00	-26.85	peak
4	11430.000	33.98	16.34	50.32	74.00	-23.68	peak
5	13125.000	30.83	19.26	50.09	74.00	-23.91	peak
6	17985.000	23.84	25.60	49.44	74.00	-24.56	peak



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Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

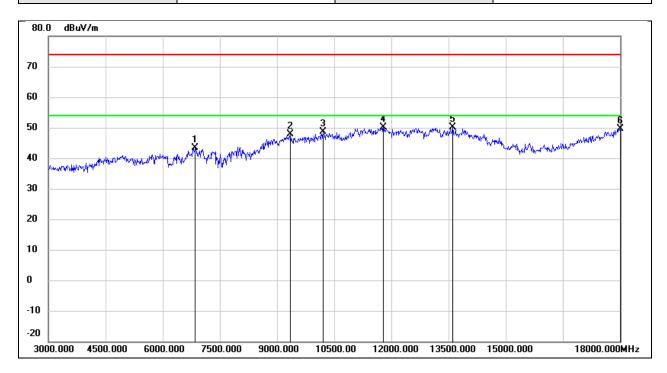


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6795.000	38.20	5.68	43.88	74.00	-30.12	peak
2	10305.000	36.24	12.61	48.85	74.00	-25.15	peak
3	11235.000	34.08	15.63	49.71	74.00	-24.29	peak
4	11910.000	31.55	17.72	49.27	74.00	-24.73	peak
5	13890.000	28.44	21.72	50.16	74.00	-23.84	peak
6	17970.000	25.08	25.51	50.59	74.00	-23.41	peak



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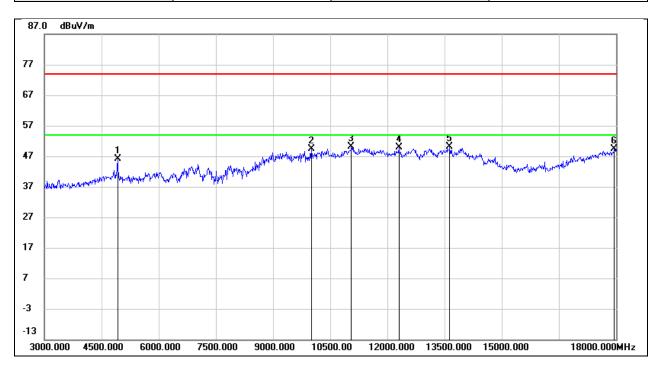
Test Mode:	802.11ax HE20	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6855.000	37.34	5.97	43.31	74.00	-30.69	peak
2	9345.000	37.37	10.63	48.00	74.00	-26.00	peak
3	10200.000	36.12	12.40	48.52	74.00	-25.48	peak
4	11790.000	32.72	17.38	50.10	74.00	-23.90	peak
5	13605.000	29.12	21.12	50.24	74.00	-23.76	peak
6	18000.000	23.93	25.69	49.62	74.00	-24.38	peak



Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

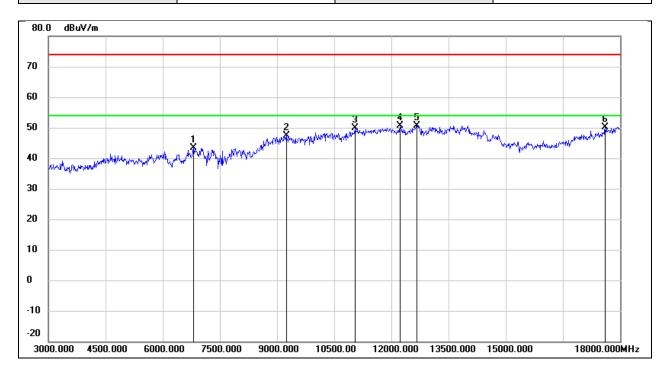


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	45.91	0.14	46.05	74.00	-27.95	peak
2	10005.000	37.30	12.02	49.32	74.00	-24.68	peak
3	11055.000	35.08	14.96	50.04	74.00	-23.96	peak
4	12300.000	32.08	17.74	49.82	74.00	-24.18	peak
5	13635.000	28.94	21.19	50.13	74.00	-23.87	peak
6	17955.000	23.85	25.42	49.27	74.00	-24.73	peak



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Test Mode:	802.11ax HE20	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz

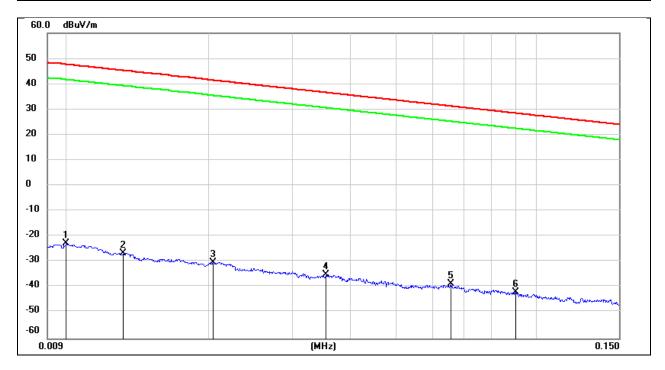


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6810.000	37.51	5.76	43.27	74.00	-30.73	peak
2	9240.000	36.76	10.58	47.34	74.00	-26.66	peak
3	11040.000	34.98	14.91	49.89	74.00	-24.11	peak
4	12225.000	32.75	17.79	50.54	74.00	-23.46	peak
5	12660.000	32.80	17.95	50.75	74.00	-23.25	peak
6	17610.000	26.82	23.38	50.20	74.00	-23.80	peak

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8.4. SPURIOUS EMISSIONS (9 KHZ ~ 30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	AC 120 V, 60 Hz

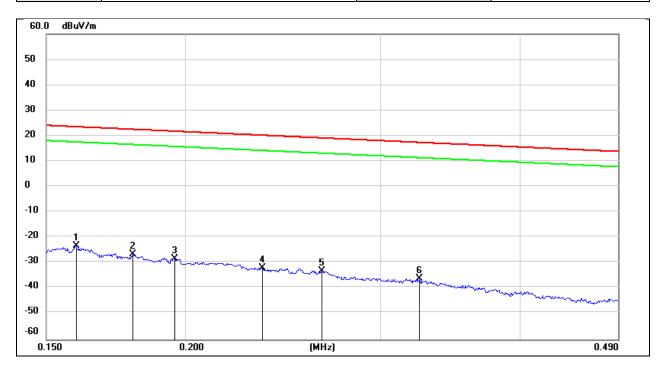


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	78.72	-101.40	-22.68	47.60	-70.28	peak
2	0.0131	74.97	-101.38	-26.41	45.25	-71.66	peak
3	0.0204	71.20	-101.35	-30.15	41.41	-71.56	peak
4	0.0354	66.47	-101.41	-34.94	36.62	-71.56	peak
5	0.0656	62.86	-101.55	-38.69	31.26	-69.95	peak
6	0.0900	59.88	-101.72	-41.84	28.52	-70.36	peak

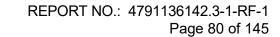




Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	AC 120 V, 60 Hz

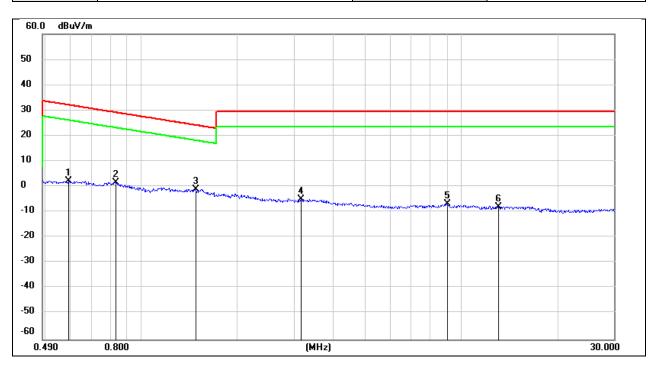


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1595	78.36	-101.65	-23.29	23.55	-46.84	peak
2	0.1794	75.27	-101.68	-26.41	22.53	-48.94	peak
3	0.1958	73.34	-101.71	-28.37	21.77	-50.14	peak
4	0.2346	69.85	-101.77	-31.92	20.19	-52.11	peak
5	0.2655	68.59	-101.82	-33.23	19.12	-52.35	peak
6	0.3251	65.71	-101.88	-36.17	17.36	-53.53	peak





Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Loop Antenna Face On To The EUT	Test Voltage:	AC 120 V, 60 Hz

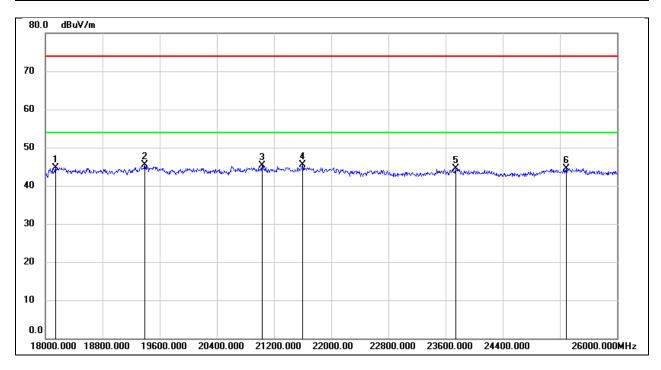


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.5917	64.24	-62.08	2.16	32.16	-30.00	peak
2	0.8296	63.94	-62.17	1.77	29.23	-27.46	peak
3	1.4818	61.11	-62.05	-0.94	24.19	-25.13	peak
4	3.1598	56.73	-61.53	-4.80	29.54	-34.34	peak
5	9.0479	54.16	-60.93	-6.77	29.54	-36.31	peak
6	13.0907	53.13	-60.93	-7.80	29.54	-37.34	peak

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8.5. SPURIOUS EMISSIONS (18 GHZ ~ 26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz

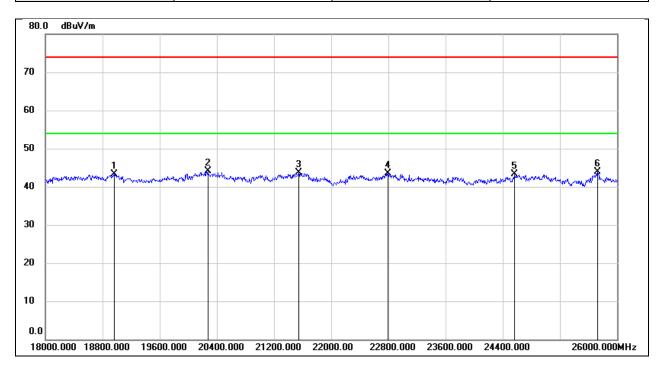


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18144.000	50.27	-5.48	44.79	74.00	-29.21	peak
2	19392.000	51.12	-5.57	45.55	74.00	-28.45	peak
3	21032.000	50.15	-4.87	45.28	74.00	-28.72	peak
4	21600.000	50.02	-4.54	45.48	74.00	-28.52	peak
5	23744.000	47.65	-3.20	44.45	74.00	-29.55	peak
6	25288.000	46.17	-1.68	44.49	74.00	-29.51	peak



Test Mode: 802.11b Frequency(MHz): 2437

Polarity: Vertical Test Voltage: AC 120 V, 60 Hz

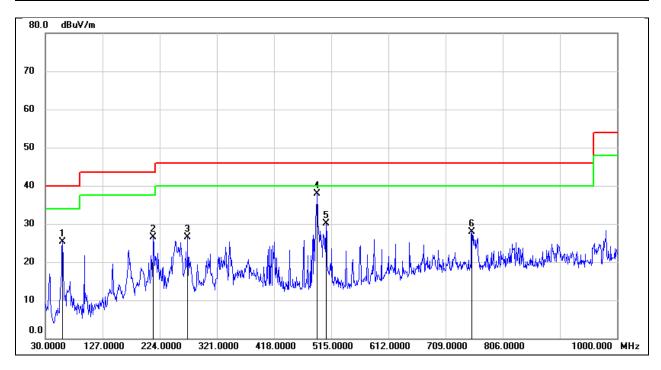


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18960.000	48.51	-5.25	43.26	74.00	-30.74	peak
2	20272.000	49.77	-5.60	44.17	74.00	-29.83	peak
3	21544.000	48.26	-4.63	43.63	74.00	-30.37	peak
4	22792.000	47.11	-3.65	43.46	74.00	-30.54	peak
5	24568.000	45.60	-2.33	43.27	74.00	-30.73	peak
6	25728.000	44.61	-0.72	43.89	74.00	-30.11	peak

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8.6. SPURIOUS EMISSIONS (30 MHZ ~ 1 GHZ)

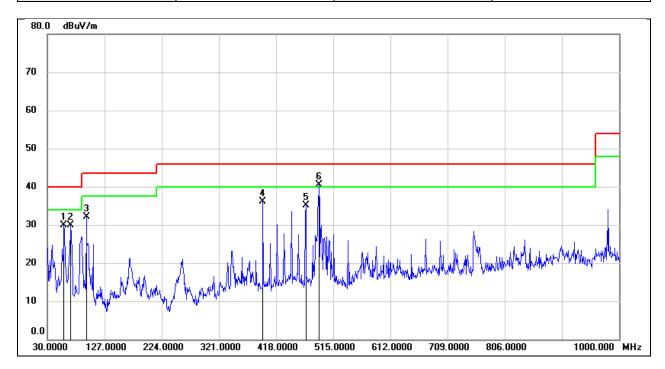
Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	59.1000	45.06	-19.81	25.25	40.00	-14.75	QP
2	213.3300	42.99	-16.49	26.50	43.50	-17.00	QP
3	271.5300	43.26	-16.82	26.44	46.00	-19.56	QP
4	490.7500	48.52	-10.56	37.96	46.00	-8.04	QP
5	506.2700	40.47	-10.32	30.15	46.00	-15.85	QP
6	753.6200	34.60	-6.65	27.95	46.00	-18.05	QP



Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	AC 120 V, 60 Hz



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	58.1300	49.63	-19.82	29.81	40.00	-10.19	QP
2	69.7699	50.16	-20.28	29.88	40.00	-10.12	QP
3	95.9600	53.41	-21.22	32.19	43.50	-11.31	QP
4	395.6900	48.55	-12.45	36.10	46.00	-9.90	QP
5	468.4400	46.18	-10.98	35.20	46.00	-10.80	QP
6	490.7500	50.97	-10.56	40.41	46.00	-5.59	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

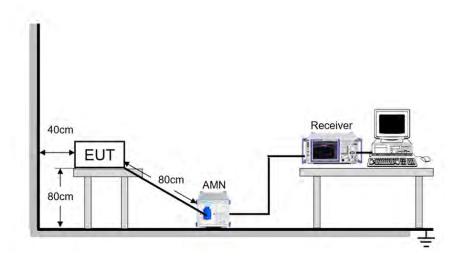
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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



TEST ENVIRONMENT

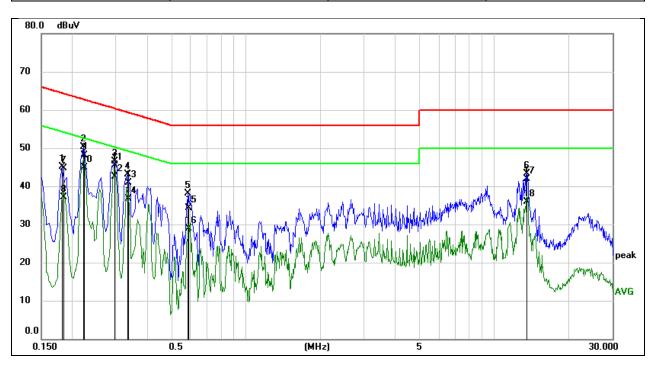
Temperature	22.5℃	Relative Humidity	57.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz



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TEST RESULTS

Test Mode:	802.11b	Frequency(MHz):	2437
Line	L		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1819	35.52	9.59	45.11	64.40	-19.29	peak
2	0.2220	40.74	9.59	50.33	62.74	-12.41	peak
3	0.2980	36.92	9.59	46.51	60.30	-13.79	peak
4	0.3339	33.55	9.59	43.14	59.35	-16.21	peak
5	0.5860	28.53	9.60	38.13	56.00	-17.87	peak
6	13.5660	33.47	9.76	43.23	60.00	-16.77	peak
7	0.1848	35.03	9.59	44.62	64.27	-19.65	QP
8	0.1848	27.61	9.59	37.20	54.27	-17.07	AVG
9	0.2240	38.50	9.59	48.09	62.67	-14.58	QP
10	0.2240	35.37	9.59	44.96	52.67	-7.71	AVG
11	0.2980	35.90	9.59	45.49	60.30	-14.81	QP
12	0.2980	32.84	9.59	42.43	50.30	-7.87	AVG
13	0.3360	31.41	9.59	41.00	59.30	-18.30	QP
14	0.3360	27.15	9.59	36.74	49.30	-12.56	AVG
15	0.5901	24.79	9.60	34.39	56.00	-21.61	QP
16	0.5901	19.24	9.60	28.84	46.00	-17.16	AVG
17	13.5669	32.14	9.76	41.90	60.00	-18.10	QP
18	13.5669	26.09	9.76	35.85	50.00	-14.15	AVG

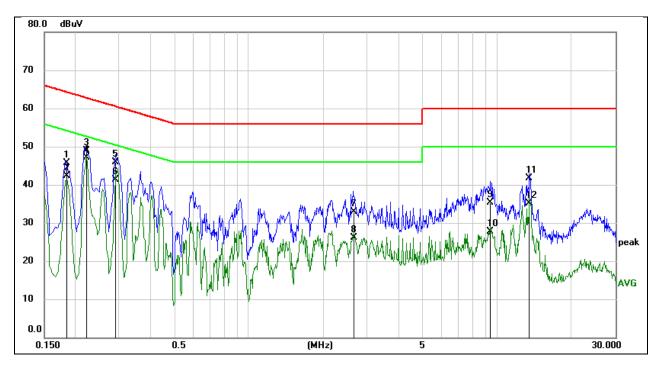
Note:

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



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Test Mode:	802.11b	Frequency(MHz):	2437
Line	N		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1849	36.15	9.56	45.71	64.26	-18.55	QP
2	0.1849	32.74	9.56	42.30	54.26	-11.96	AVG
3	0.2224	39.35	9.58	48.93	62.73	-13.80	QP
4	0.2224	37.51	9.58	47.09	52.73	-5.64	AVG
5	0.2911	36.43	9.56	45.99	60.49	-14.50	QP
6	0.2911	31.67	9.56	41.23	50.49	-9.26	AVG
7	2.6436	23.27	9.62	32.89	56.00	-23.11	QP
8	2.6436	16.52	9.62	26.14	46.00	-19.86	AVG
9	9.3939	25.74	9.62	35.36	60.00	-24.64	QP
10	9.3939	18.04	9.62	27.66	50.00	-22.34	AVG
11	13.4873	31.98	9.66	41.64	60.00	-18.36	QP
12	13.4873	25.35	9.66	35.01	50.00	-14.99	AVG

Note:

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

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



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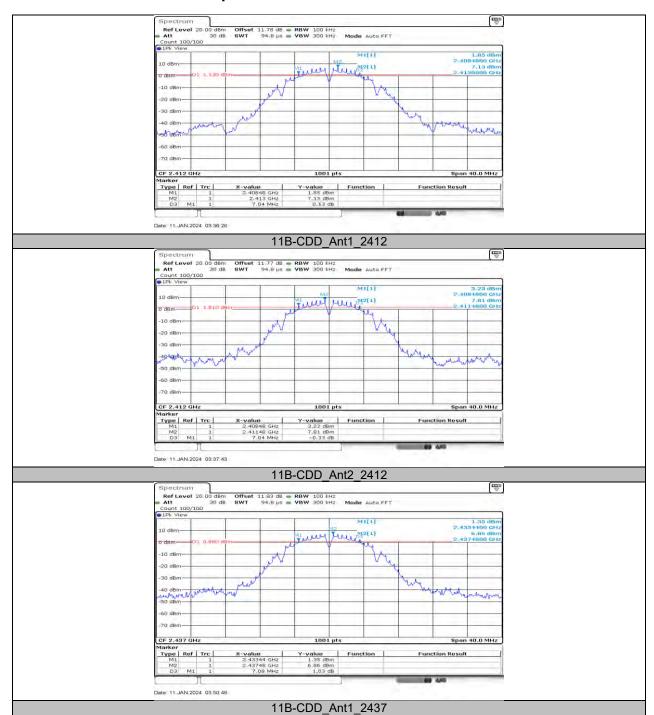
11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH 11.1.1. Test Result

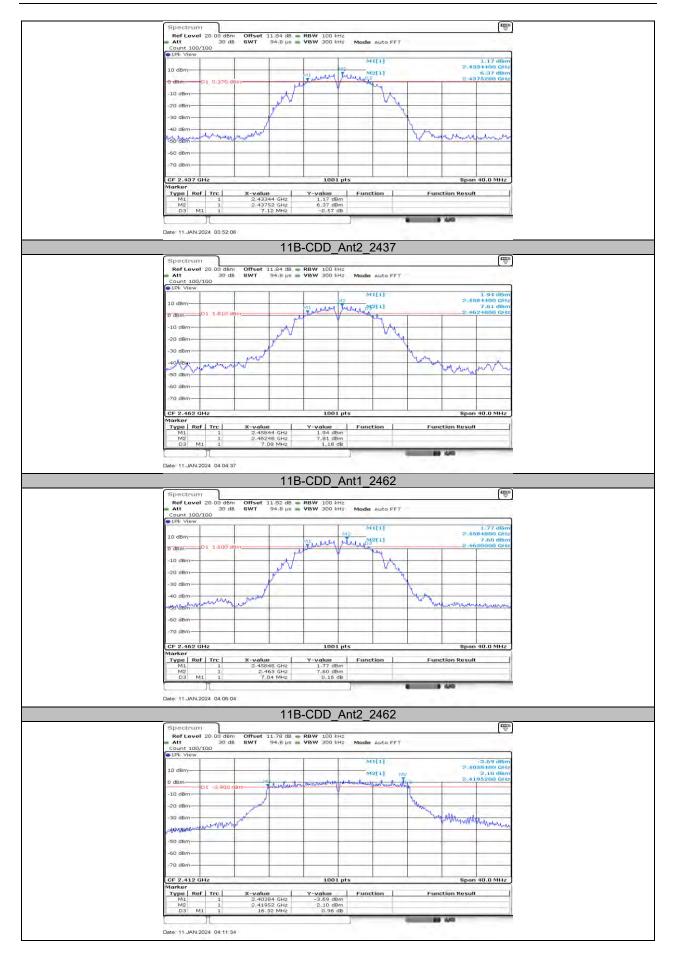
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	2412	7.04	2408.48	2415.52	≥0.5	PASS
	Ant2	2412	7.04	2408.48	2415.52	≥0.5	PASS
440.000	Ant1	2437	7.08	2433.44	2440.52	≥0.5	PASS
11B-CDD	Ant2	2437	7.12	2433.44	2440.56	≥0.5	PASS
	Ant1	2462	7.08	2458.44	2465.52	≥0.5	PASS
	Ant2	2462	7.04	2458.48	2465.52	≥0.5	PASS
	Ant1	2412	16.32	2403.84	2420.16	≥0.5	PASS
	Ant2	2412	16.32	2403.84	2420.16	≥0.5	PASS
11G-CDD	Ant1	2437	16.32	2428.84	2445.16	≥0.5	PASS
HG-CDD	Ant2	2437	16.36	2428.80	2445.16	≥0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	≥0.5	PASS
	Ant2	2462	16.36	2453.80	2470.16	≥0.5	PASS
	Ant1	2412	17.56	2403.24	2420.80	≥0.5	PASS
	Ant2	2412	17.60	2403.20	2420.80	≥0.5	PASS
11N20MIMO	Ant1	2437	17.60	2428.20	2445.80	≥0.5	PASS
I IINZUIVIIIVIO	Ant2	2437	17.60	2428.20	2445.80	≥0.5	PASS
	Ant1	2462	17.60	2453.20	2470.80	≥0.5	PASS
	Ant2	2462	17.60	2453.20	2470.80	≥0.5	PASS
	Ant1	2412	17.68	2403.80	2421.48	≥0.5	PASS
11AX20MIMO	Ant2	2412	17.88	2403.00	2420.88	≥0.5	PASS
	Ant1	2437	18.20	2428.24	2446.44	≥0.5	PASS
I IAAZUIVIIIVIU	Ant2	2437	18.20	2427.68	2445.88	≥0.5	PASS
	Ant1	2462	18.40	2453.00	2471.40	≥0.5	PASS
	Ant2	2462	18.32	2452.76	2471.08	≥0.5	PASS



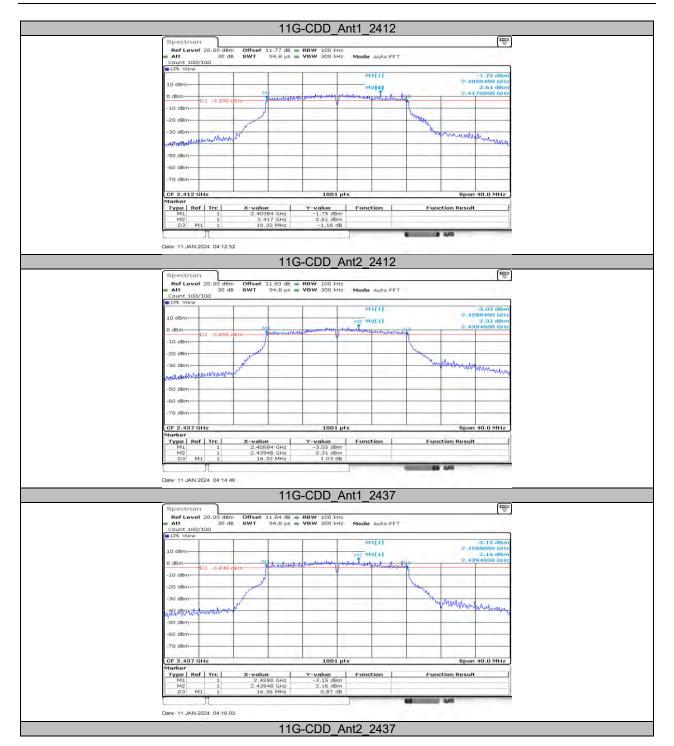
11.1.2. Test Graphs



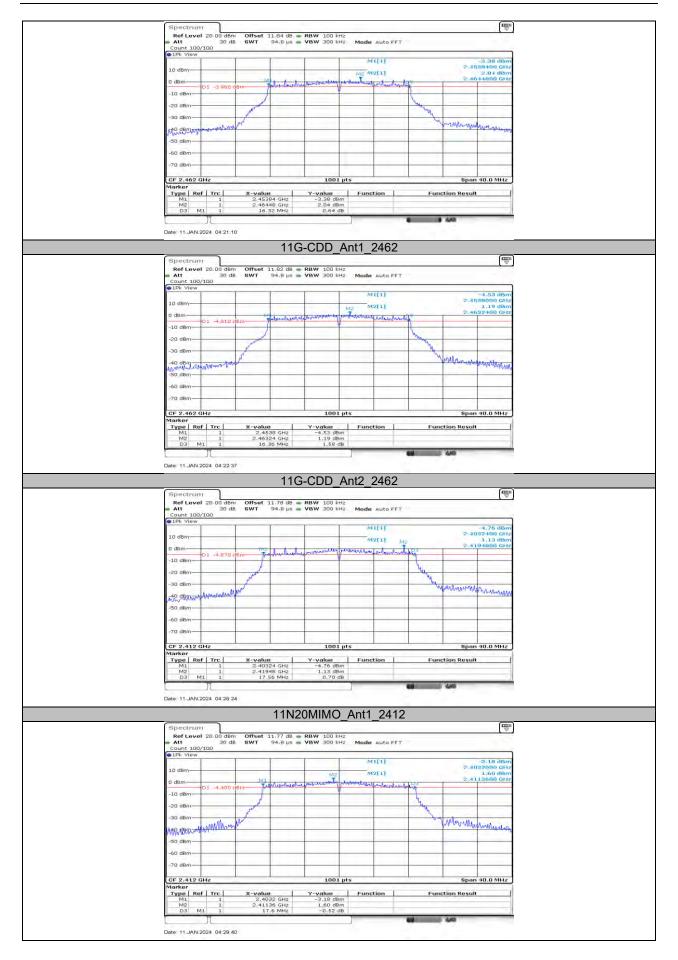




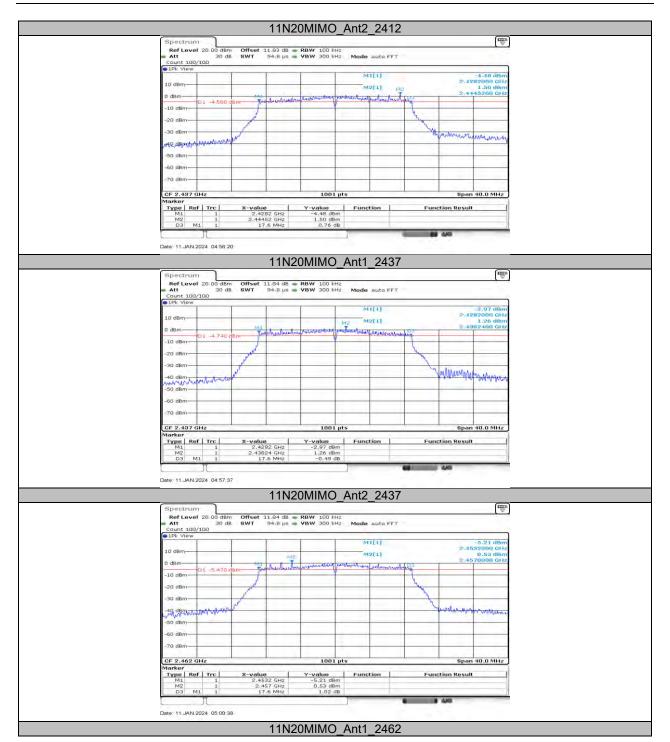




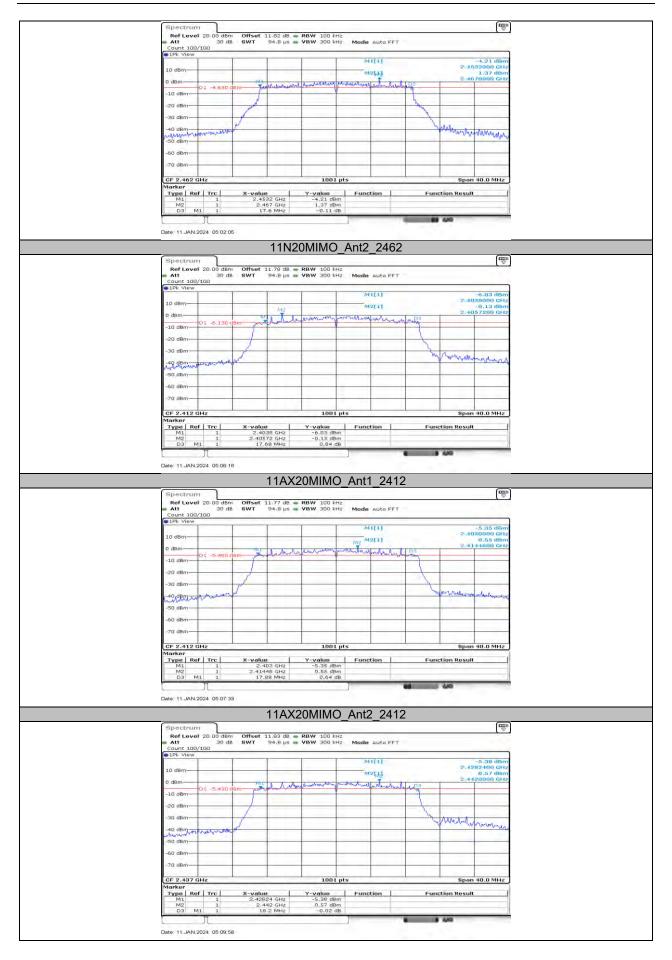




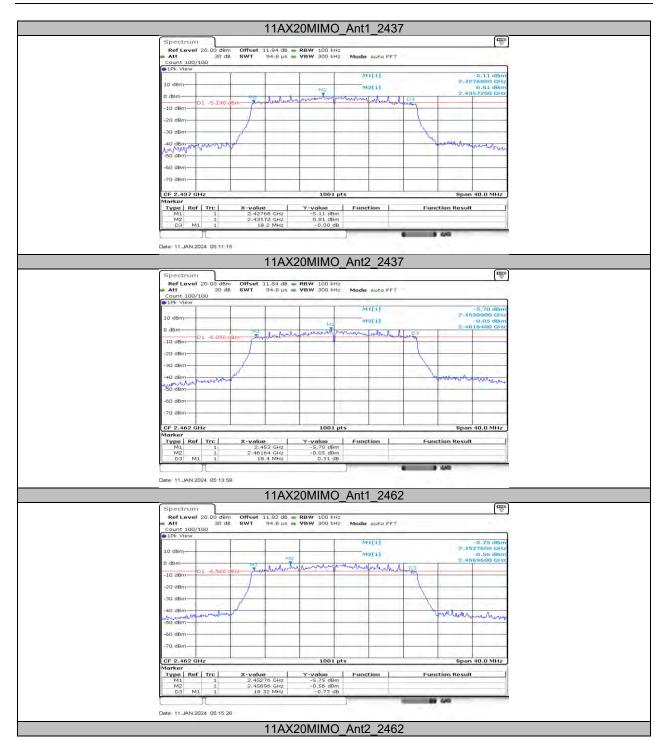












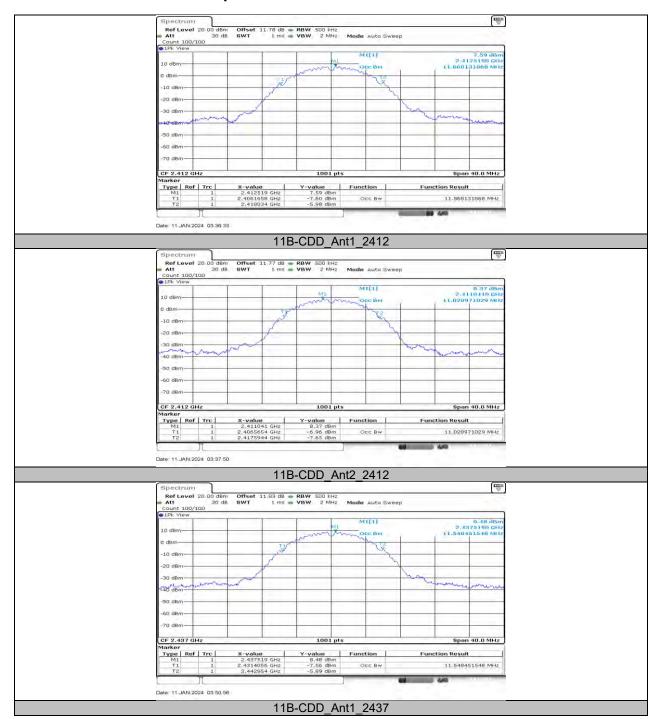
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11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH 11.2.1. Test Result

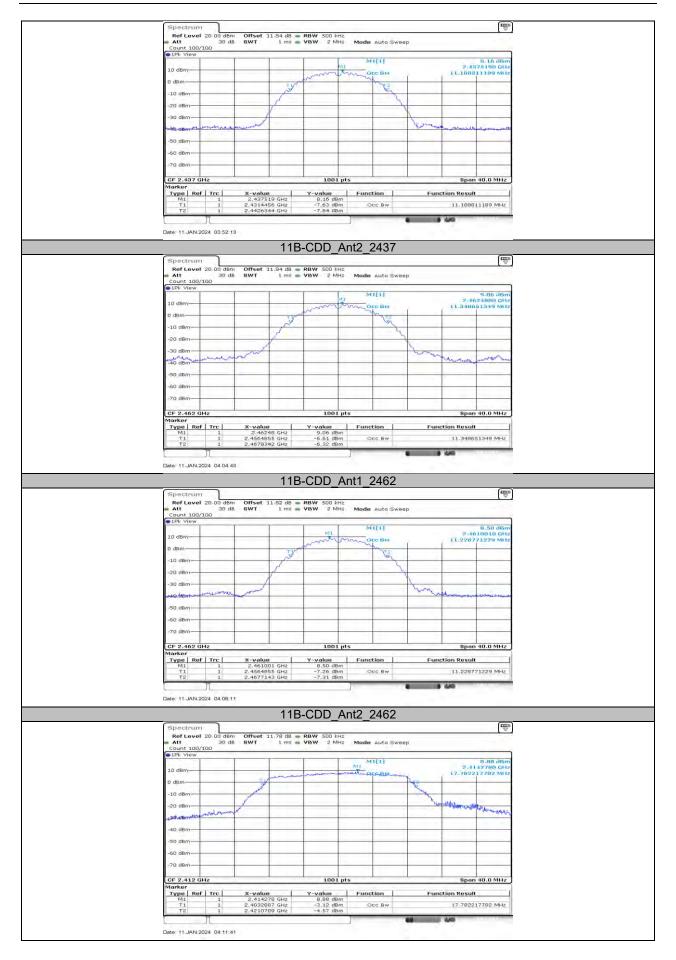
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
	Ant1	2412	11.868	2406.1658	2418.0340	PASS
	Ant2	2412	11.029	2406.5654	2417.5944	PASS
11B-CDD	Ant1	2437	11.548	2431.4056	2442.9540	PASS
TIB-CDD	Ant2	2437	11.189	2431.4456	2442.6344	PASS
	Ant1	2462	11.349	2456.4855	2467.8342	PASS
	Ant2	2462	11.229	2456.4855	2467.7143	PASS
	Ant1	2412	17.782	2403.2887	2421.0709	PASS
	Ant2	2412	17.263	2403.4486	2420.7113	PASS
11G-CDD	Ant1	2437	17.822	2428.2488	2446.0709	PASS
TIG-CDD	Ant2	2437	17.303	2428.4086	2445.7113	PASS
	Ant1	2462	17.662	2453.2488	2470.9111	PASS
	Ant2	2462	17.183	2453.4885	2470.6713	PASS
	Ant1	2412	18.701	2402.8092	2421.5105	PASS
	Ant2	2412	18.142	2402.9291	2421.0709	PASS
11N20MIMO	Ant1	2437	18.661	2427.8092	2446.4705	PASS
TINZUMIMO	Ant2	2437	18.142	2427.9291	2446.0709	PASS
	Ant1	2462	18.661	2452.7293	2471.3906	PASS
	Ant2	2462	18.102	2453.0090	2471.1109	PASS
	Ant1	2412	19.101	2402.5694	2421.6703	PASS
	Ant2	2412	19.101	2402.4895	2421.5904	PASS
11AX20MIMO	Ant1	2437	19.061	2427.5295	2446.5904	PASS
TIAAZUIVIIIVIO	Ant2	2437	19.101	2427.4496	2446.5504	PASS
	Ant1	2462	19.061	2452.5295	2471.5904	PASS
	Ant2	2462	19.061	2452.4895	2471.5504	PASS



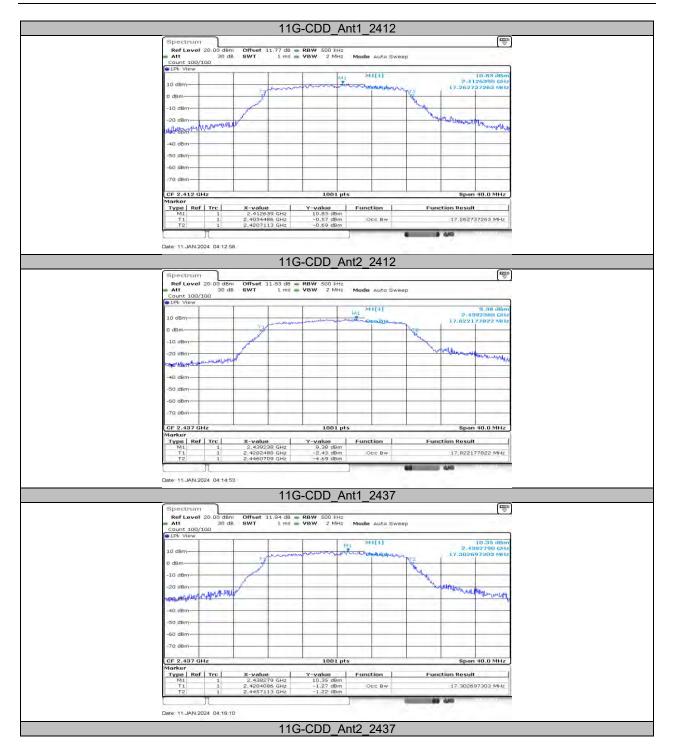
11.2.2. Test Graphs



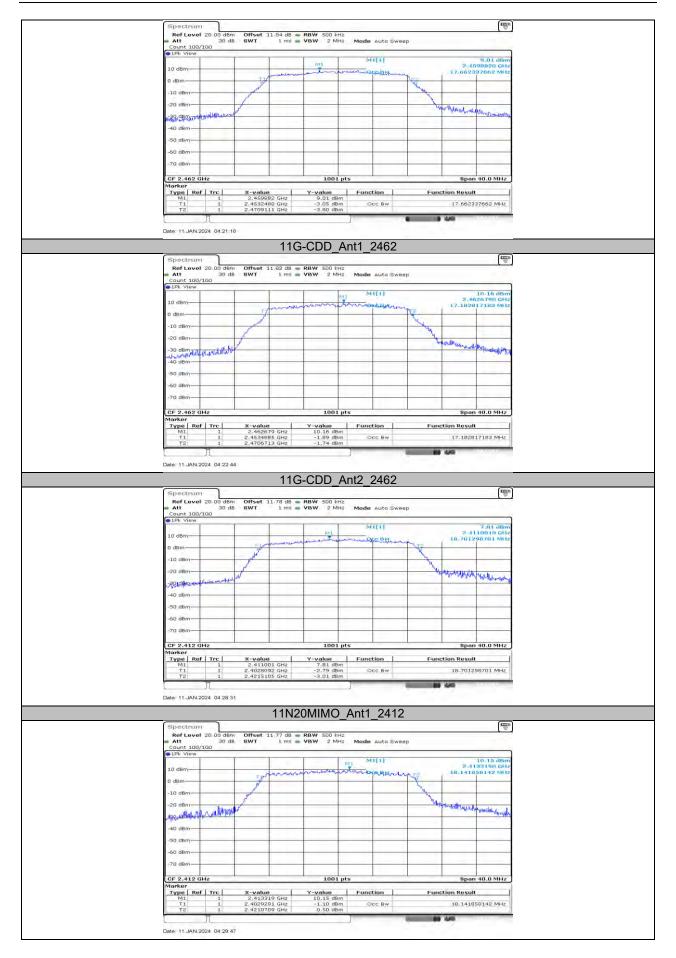




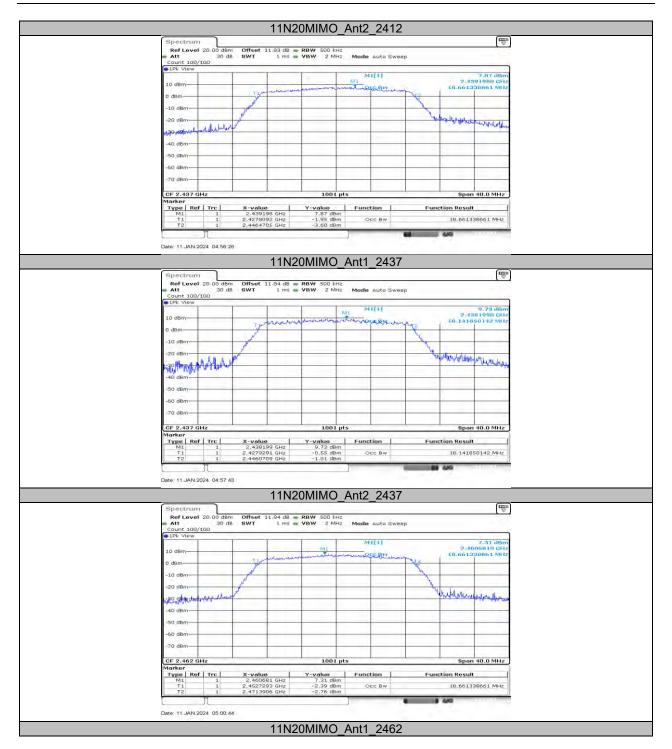




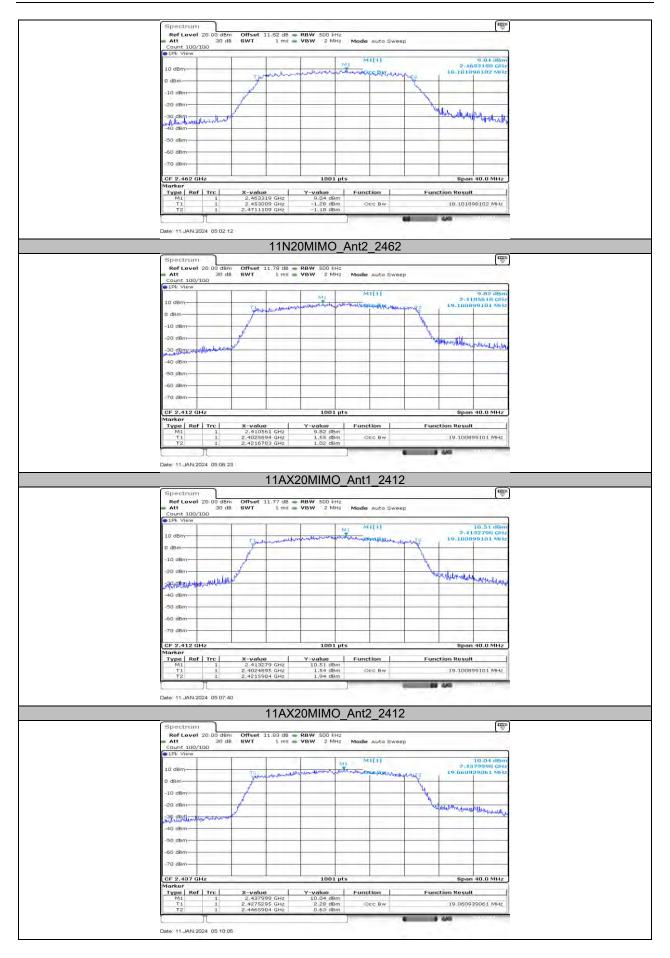




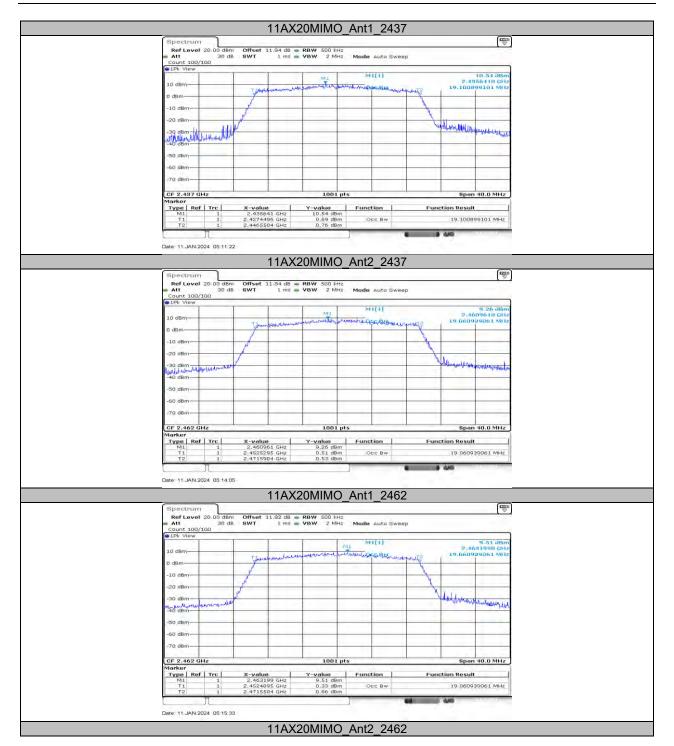












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11.3. APPENDIX C: MAXIMUM AVERAGE CONDUCTED OUTPUT POWER 11.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
	Ant1	2412	16.88	≤30.00	PASS
-	Ant2	2412	16.06	≤30.00	PASS
	total	2412	19.50	≤30.00	PASS
-	Ant1	2437	17.44	≤30.00	PASS
11B-CDD	Ant2	2437	16.57	≤30.00	PASS
-	total	2437	20.04	≤30.00	PASS
	Ant1	2462	17.03	≤30.00	PASS
	Ant2	2462	15.72	≤30.00	PASS
	total	2462	19.43	≤30.00	PASS
	Ant1	2412	14.52	≤30.00	PASS
	Ant2	2412	15.21	≤30.00	PASS
	total	2412	17.89	≤30.00	PASS
	Ant1	2437	15.13	≤30.00	PASS
11G-CDD	Ant2	2437	15.02	≤30.00	PASS
	total	2437	18.09	≤30.00	PASS
	Ant1	2462	14.55	≤30.00	PASS
	Ant2	2462	14.41	≤30.00	PASS
	total	2462	17.49	≤30.00	PASS
	Ant1	2412	13.50	≤30.00	PASS
	Ant2	2412	14.17	≤30.00	PASS
	total	2412	16.86	≤30.00	PASS
	Ant1	2437	14.11	≤30.00	PASS
11N20MIMO	Ant2	2437	14.01	≤30.00	PASS
	total	2437	17.07	≤30.00	PASS
	Ant1	2462	13.36	≤30.00	PASS
	Ant2	2462	13.48	≤30.00	PASS
	total	2462	16.43	≤30.00	PASS
	Ant1	2412	12.93	≤30.00	PASS
	Ant2	2412	13.69	≤30.00	PASS
	total	2412	16.34	≤30.00	PASS
	Ant1	2437	13.40	≤30.00	PASS
11AX20MIMO	Ant2	2437	13.35	≤30.00	PASS
	total	2437	16.39	≤30.00	PASS
	Ant1	2462	12.70	≤30.00	PASS
	Ant2	2462	12.66	≤30.00	PASS
	total	2462	15.69	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

^{2.} The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

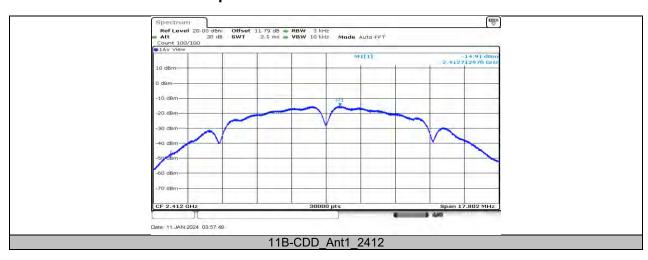


11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY 11.4.1. Test Result

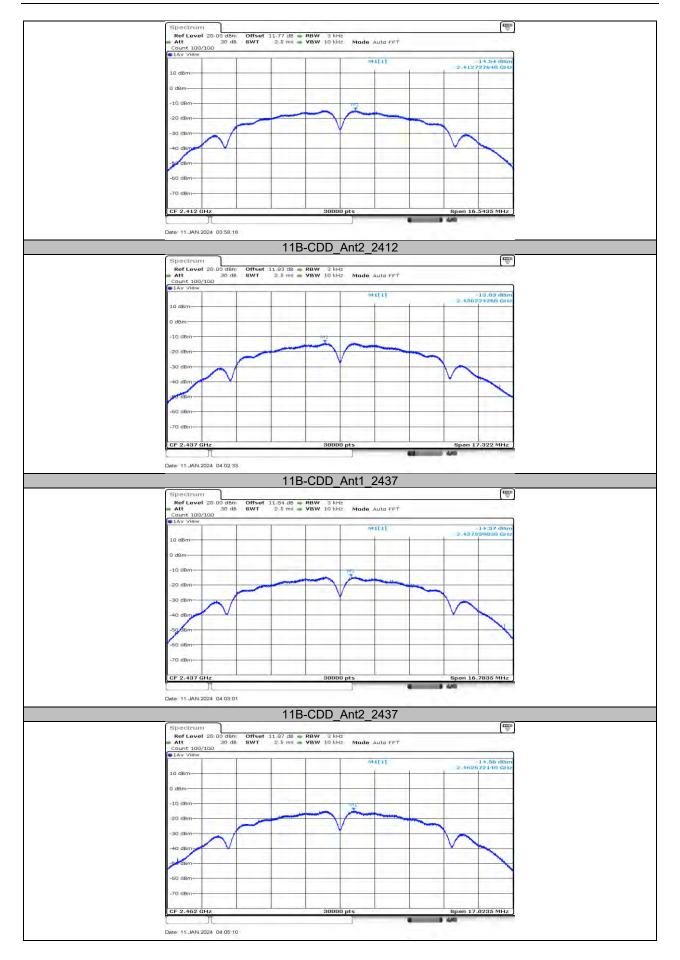
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	Ant1	2412	-14.91	≤8.00	PASS
	Ant2	2412	-14.54	≤8.00	PASS
	total	2412	-11.71	≤8.00	PASS
	Ant1	2437	-13.83	≤8.00	PASS
11B-CDD	Ant2	2437	-14.37	≤8.00	PASS
	total	2437	-11.08	≤8.00	PASS
	Ant1	2462	-14.56	≤8.00	PASS
	Ant2	2462	-15.54	≤8.00	PASS
	total	2462	-12.01	≤8.00	PASS
	Ant1	2412	-17.79	≤8.00	PASS
	Ant2	2412	-16.94	≤8.00	PASS
	total	2412	-14.33	≤8.00	PASS
	Ant1	2437	-17.44	≤8.00	PASS
11G-CDD	Ant2	2437	-17.45	≤8.00	PASS
	total	2437	-14.43	≤8.00	PASS
	Ant1	2462	-18.13	≤8.00	PASS
	Ant2	2462	-18.39	≤8.00	PASS
	total	2462	-15.25	≤8.00	PASS
	Ant1	2412	-20.48	≤8.00	PASS
	Ant2	2412	-19.61	≤8.00	PASS
	total	2412	-17.01	≤8.00	PASS
	Ant1	2437	-19.86	≤8.00	PASS
11N20MIMO	Ant2	2437	-19.82	≤8.00	PASS
	total	2437	-16.83	≤8.00	PASS
	Ant1	2462	-20.37	≤8.00	PASS
	Ant2	2462	-20.28	≤8.00	PASS
	total	2462	-17.31	≤8.00	PASS
	Ant1	2412	-19.51	≤8.00	PASS
	Ant2	2412	-19.57	≤8.00	PASS
	total	2412	-16.53	≤8.00	PASS
	Ant1	2437	-19.22	≤8.00	PASS
11AX20MIMO	Ant2	2437	-18.71	≤8.00	PASS
	total	2437	-15.95	≤8.00	PASS
	Ant1	2462	-19.83	≤8.00	PASS
	Ant2	2462	-20.85	≤8.00	PASS
	total	2462	-17.30	≤8.00	PASS

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

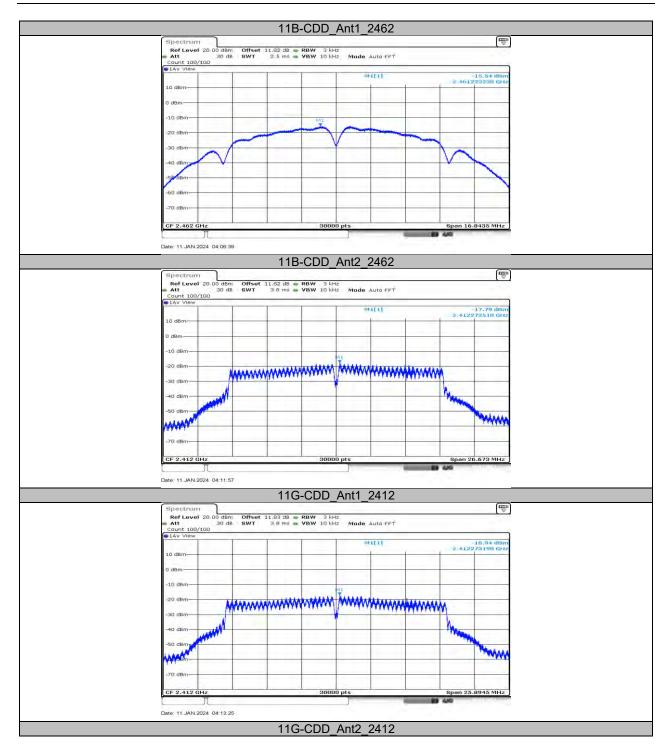
11.4.2. Test Graphs



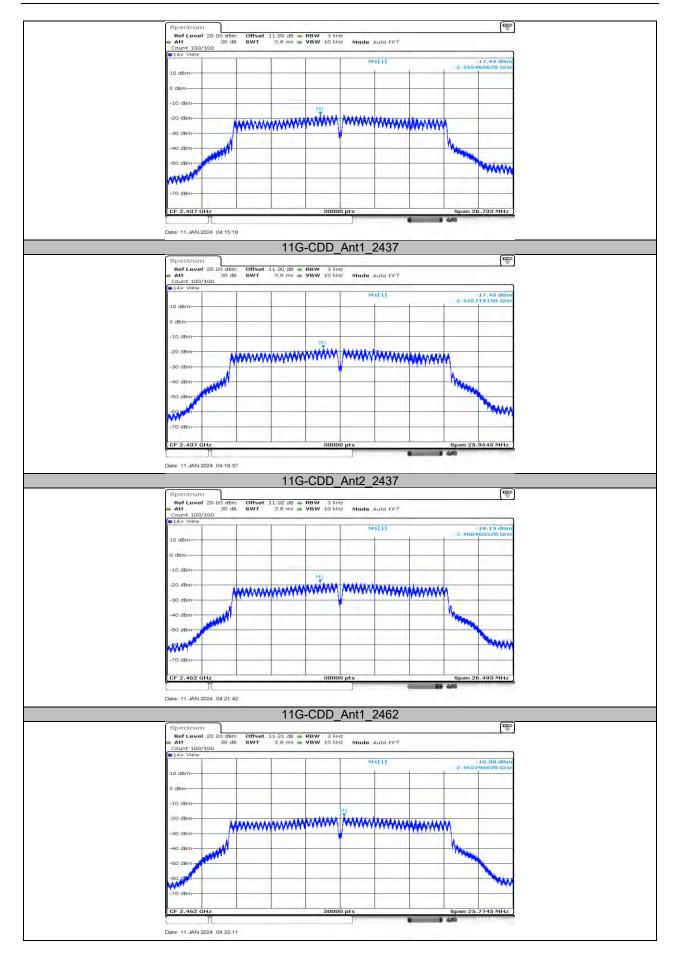




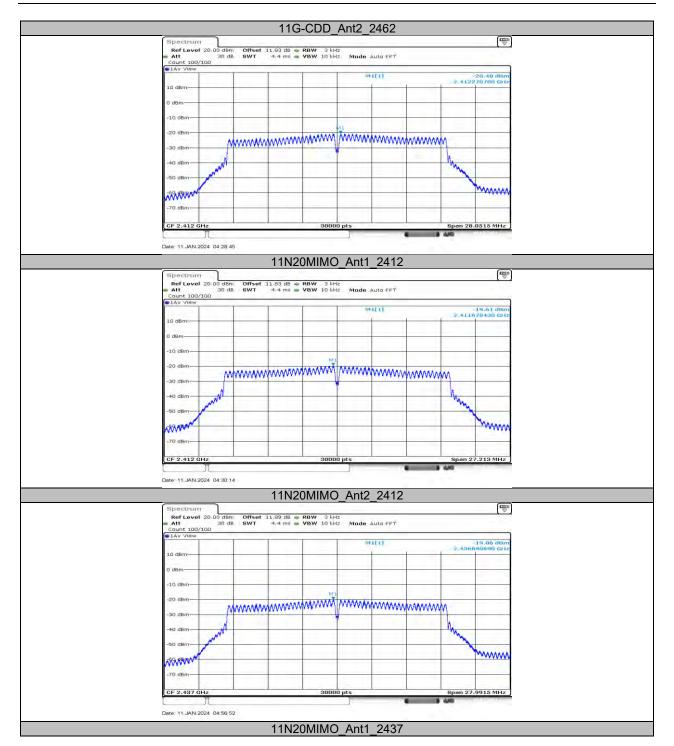




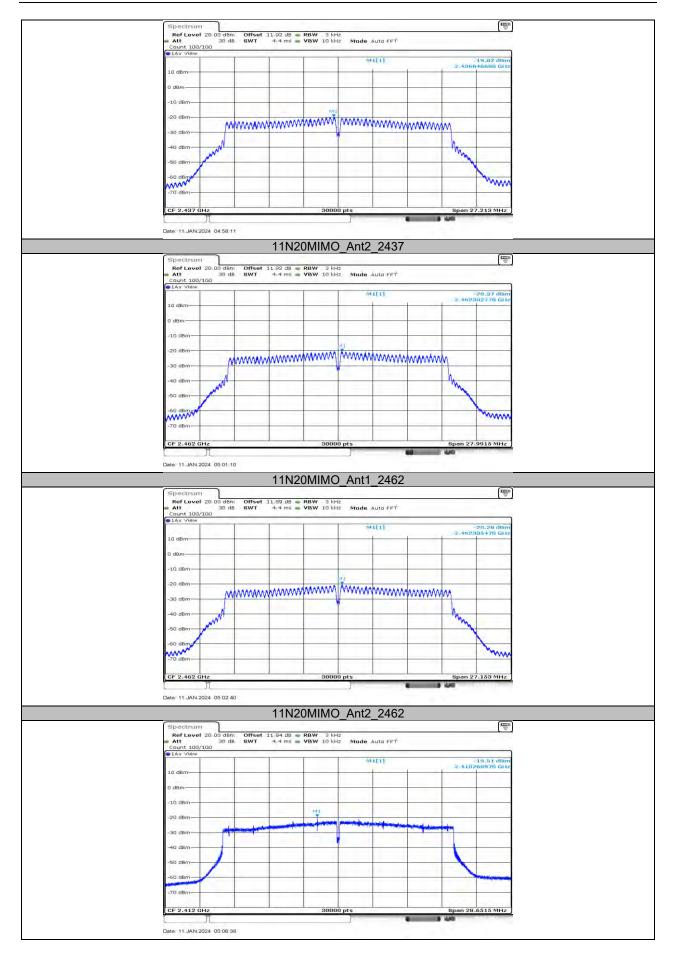




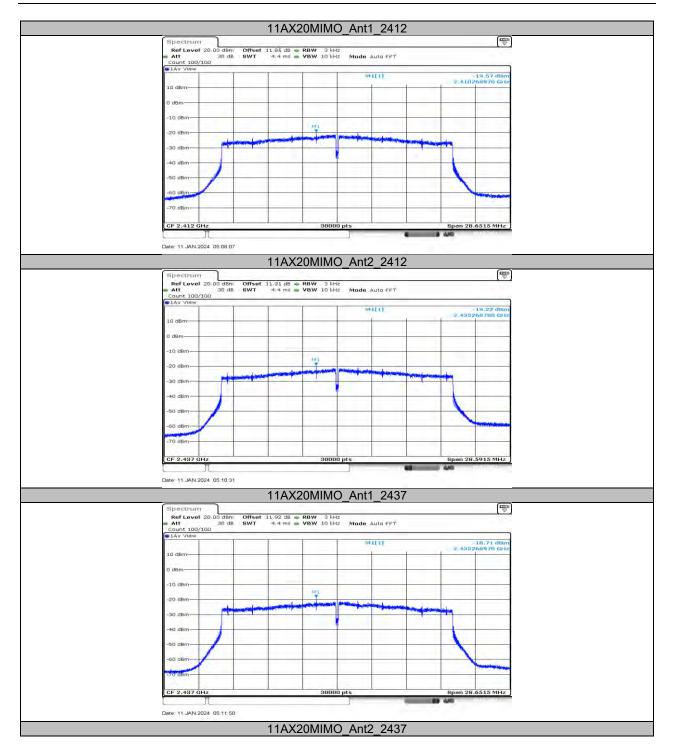




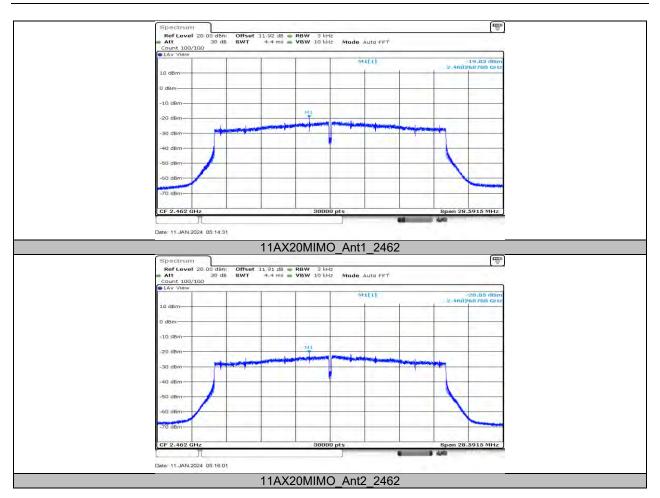














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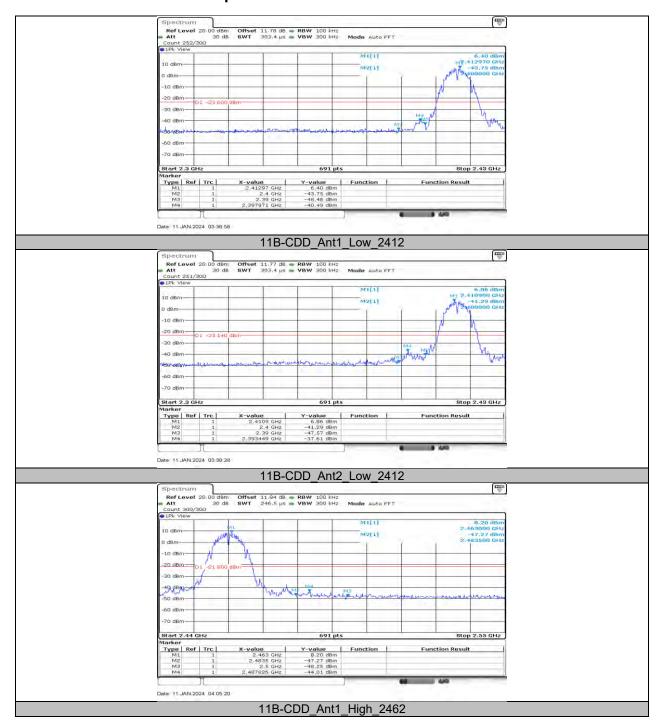
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11.5. APPENDIX E: BAND EDGE MEASUREMENTS 11.5.1. Test Result

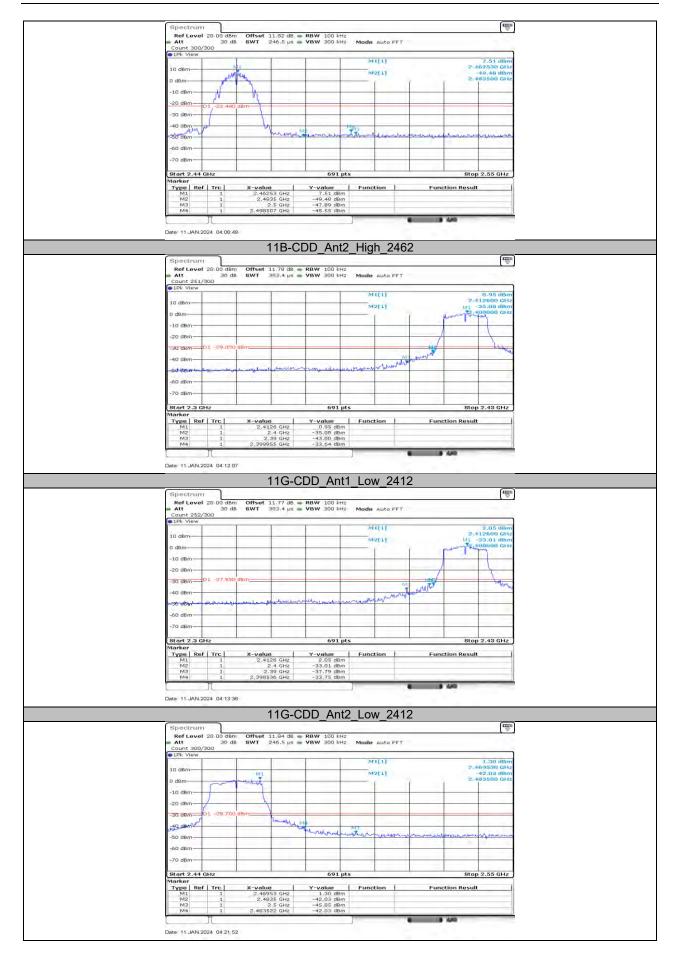
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	6.40	-40.49	≤-23.6	PASS
	Ant2	Low	2412	6.86	-37.61	≤-23.14	PASS
	Ant1	High	2462	8.20	-44.01	≤-21.8	PASS
	Ant2	High	2462	7.51	-45.55	≤-22.49	PASS
11G-CDD	Ant1	Low	2412	0.95	-33.64	≤-29.05	PASS
	Ant2	Low	2412	2.05	-33.75	≤-27.95	PASS
	Ant1	High	2462	1.30	-42.03	≤-28.7	PASS
	Ant2	High	2462	1.47	-41.83	≤-28.53	PASS
11N20MIMO	Ant1	Low	2412	1.69	-35.6	≤-28.31	PASS
	Ant2	Low	2412	1.27	-36.04	≤-28.73	PASS
	Ant1	High	2462	0.27	-42	≤-29.73	PASS
	Ant2	High	2462	0.45	-45.34	≤-29.55	PASS
11AX20MIMO	Ant1	Low	2412	0.56	-38.67	≤-29.44	PASS
	Ant2	Low	2412	0.82	-37.5	≤-29.18	PASS
	Ant1	High	2462	-1.16	-44.94	≤-31.16	PASS
	Ant2	High	2462	-1.08	-46.55	≤-31.08	PASS



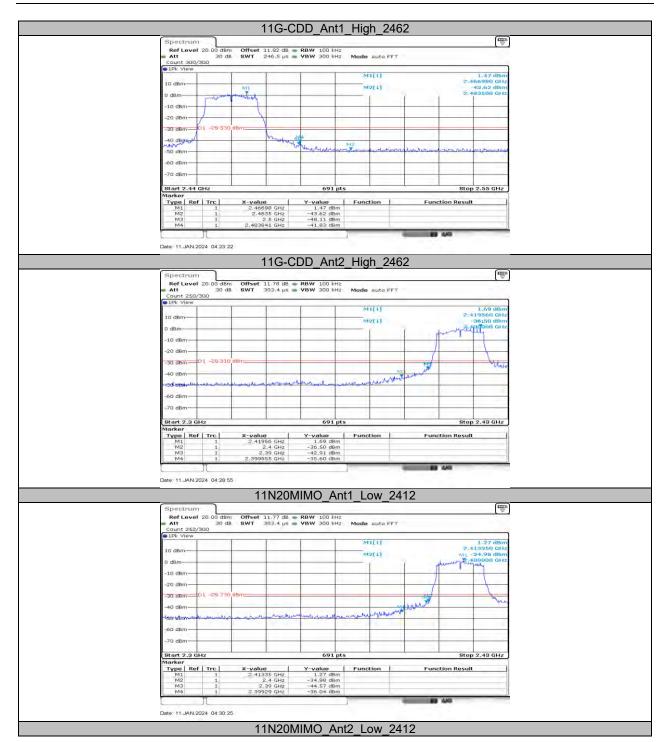
11.5.2. Test Graphs



















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11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION 11.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
			Reference	7.46		PASS
	Ant1	2412	30~1000	-55.55	≤-22.54	PASS
		2712	1000~26500	-48.35	≤-22.54	PASS
			Reference	7.54	<u> </u>	PASS
	Ant2	2412	30~1000	-54.95	≤-22.46	PASS
	Anc	2712	1000~26500	-50.14	≤-22.46	PASS
		2437	Reference	8.13		PASS
	Ant1		30~1000	-54.95	≤-21.87	PASS
			1000~26500	-50.57	≤-21.87	PASS
11B-CDD		2437	Reference	7.39		PASS
	Ant2		30~1000	-55.23	≤-22.61	PASS
			1000~26500	-50.11	≤-22.61	PASS
			Reference	8.47	- 22.01	PASS
	Ant1	2462	30~1000	-55.92	≤-21.53	PASS
	Aiti	2102	1000~26500	-50.26	≤-21.53	PASS
		2462	Reference	7.75		PASS
	Ant2		30~1000	-55.44	≤-22.25	PASS
	7 11102	2102	1000~26500	-49.84	≤-22.25	PASS
			Reference	2.29		PASS
	Ant1	2412	30~1000	-55.34	≤-27.71	PASS
	7 4161	2112	1000~26500	-50.61	≤-27.71	PASS
			Reference	2.56		PASS
	Ant2	2412	30~1000	-55.28	≤-27.44	PASS
	Anz	2112	1000~26500	-50.63	≤-27.44	PASS
			Reference	2.46	- 27.11	PASS
	Ant1	2437	30~1000	-55.81	≤-27.54	PASS
			1000~26500	-50.37	≤-27.54	PASS
11G-CDD	Ant2	2437	Reference	2.45		PASS
			30~1000	-55.14	≤-27.55	PASS
			1000~26500	-50.1	≤-27.55	PASS
	Ant1		Reference	2.16		PASS
		2462	30~1000	-55.58	≤-27.84	PASS
			1000~26500	-49.76	≤-27.84	PASS
	Ant2		Reference	1.77		PASS
		2462	30~1000	-55.74	≤-28.23	PASS
			1000~26500	-50.12	≤-28.23	PASS
	Ant1	2412	Reference	0.86		PASS
			30~1000	-54.93	≤-29.14	PASS
			1000~26500	-50.55	≤-29.14	PASS
	Ant2		Reference	1.81		PASS
		2412	30~1000	-55.9	≤-28.19	PASS
			1000~26500	-49.53	≤-28.19	PASS
	Ant1	2437	Reference	1.66		PASS
			30~1000	-55.76	≤-28.34	PASS
11N20MIMO			1000~26500	-50.32	≤-28.34	PASS
I TINZUIVIIIVIU	Ant2	2437	Reference	1.23		PASS
			30~1000	-55.44	≤-28.77	PASS
			1000~26500	-50.58	≤-28.77	PASS
	Ant1	2462 2462	Reference	0.57		PASS
			30~1000	-55.28	≤-29.43	PASS
			1000~26500	-50.68	≤-29.43	PASS
			Reference	1.19		PASS
			30~1000	-55.3	≤-28.81	PASS
			1000~26500	-50.17	≤-28.81	PASS
	Ant1	2412	Reference	0.39		PASS
11AX20MIMO			30~1000	-55.59	≤-29.61	PASS
1 17 AZOIVIIIVIO			1000~26500	-50.35	≤-29.61	PASS
	Ant2	2412	Reference	1.30		PASS



Ant2

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≤-30.7

≤-30.7

PASS

PASS

-55.57

-50.43

PASS 30~1000 -55.86 ≤-28.7 1000~26500 -50.61 ≤-28.7 PASS Reference 0.71 **PASS** Ant1 2437 30~1000 -55.6 ≤-29.29 **PASS** 1000~26500 -49.8 ≤-29.29 **PASS** Reference 0.62 PASS Ant2 2437 30~1000 -55.69 ≤-29.38 PASS 1000~26500 -51.08 ≤-29.38 PASS PASS Reference 0.12 30~1000 -54.92 ≤-29.88 PASS 2462 Ant1 1000~26500 -50.18 PASS ≤-29.88 -0.70 PASS Reference

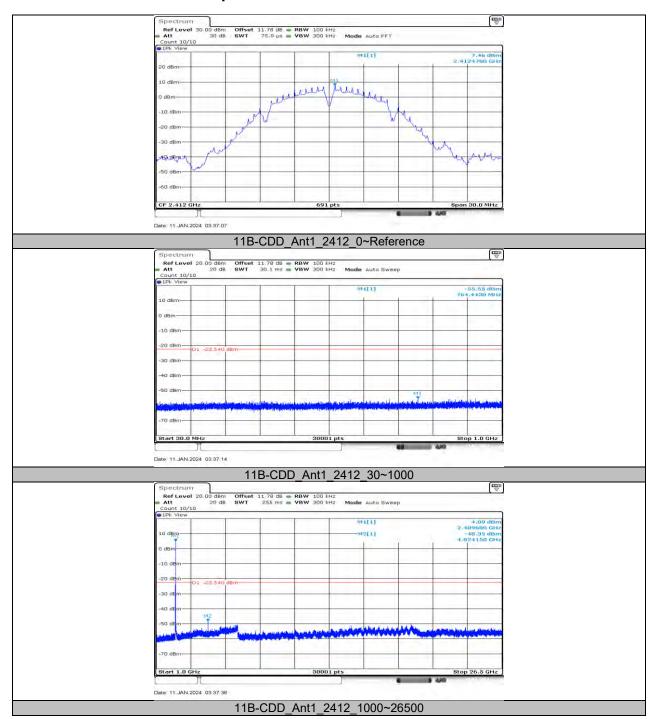
2462

30~1000

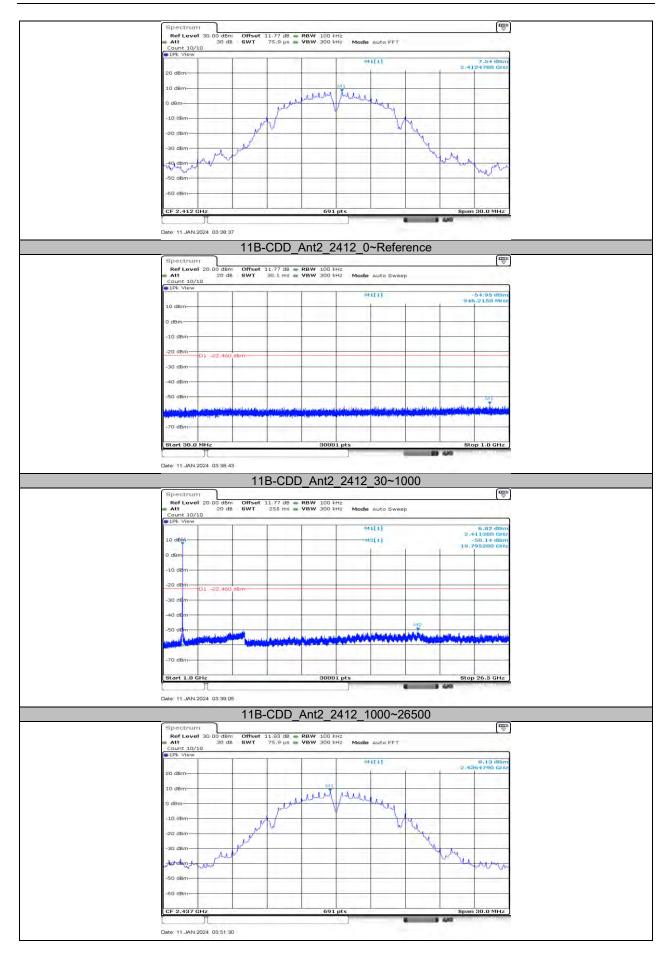
1000~26500



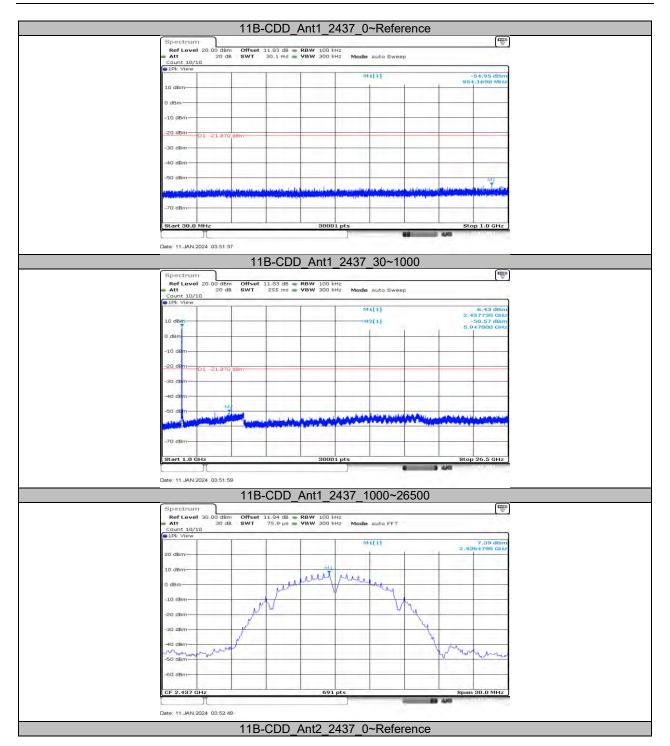
11.6.2. Test Graphs



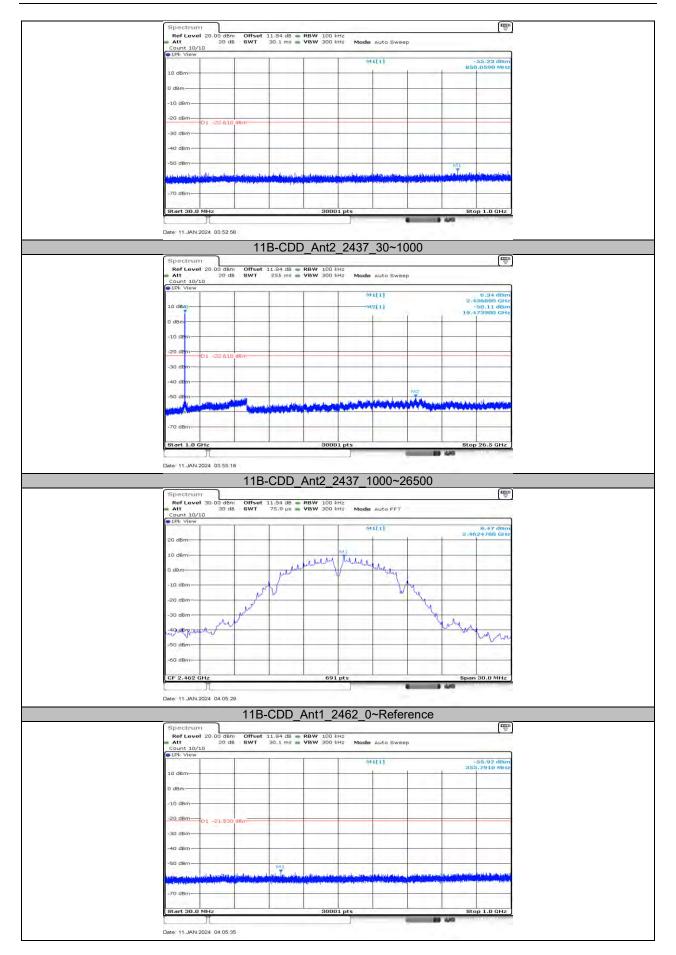




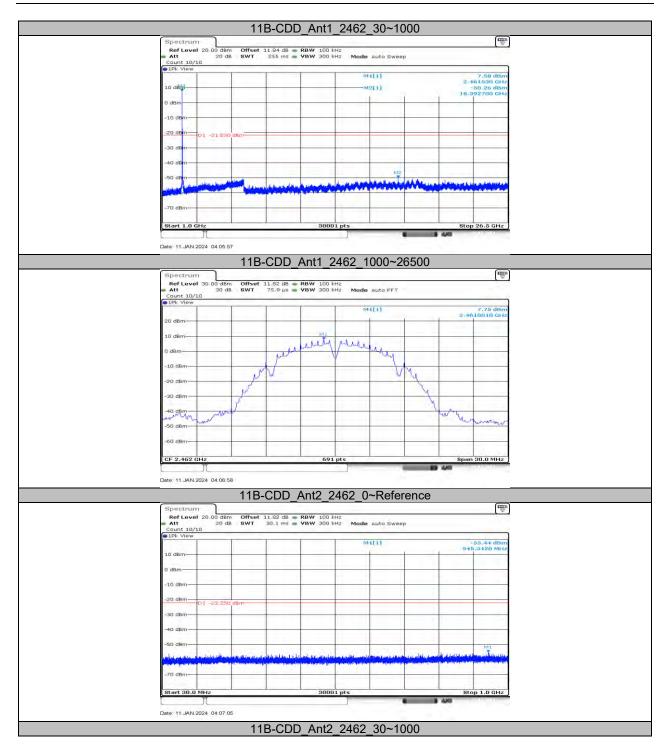




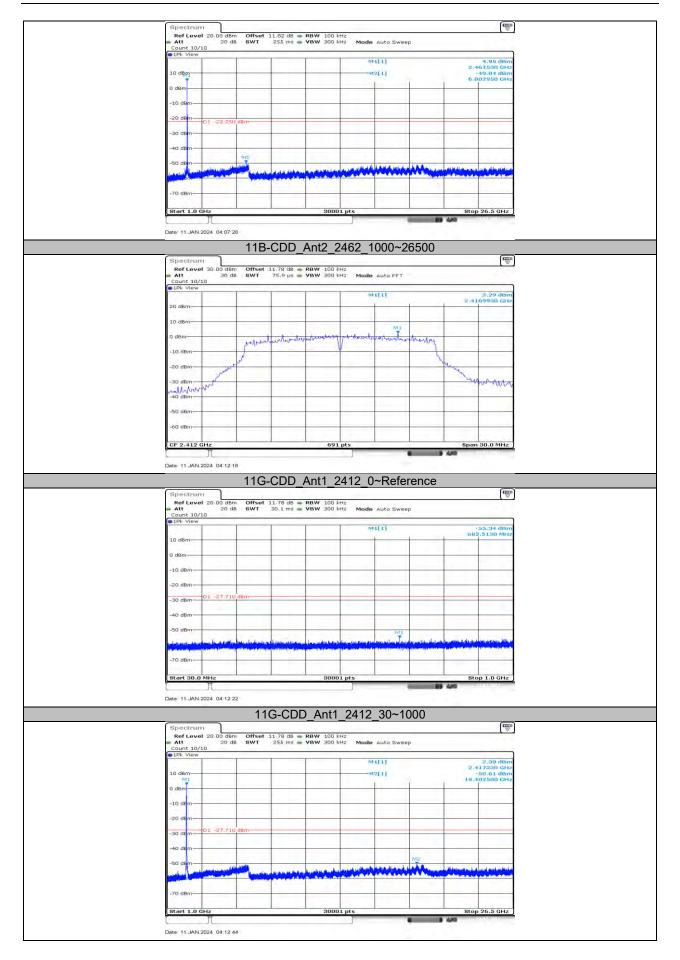




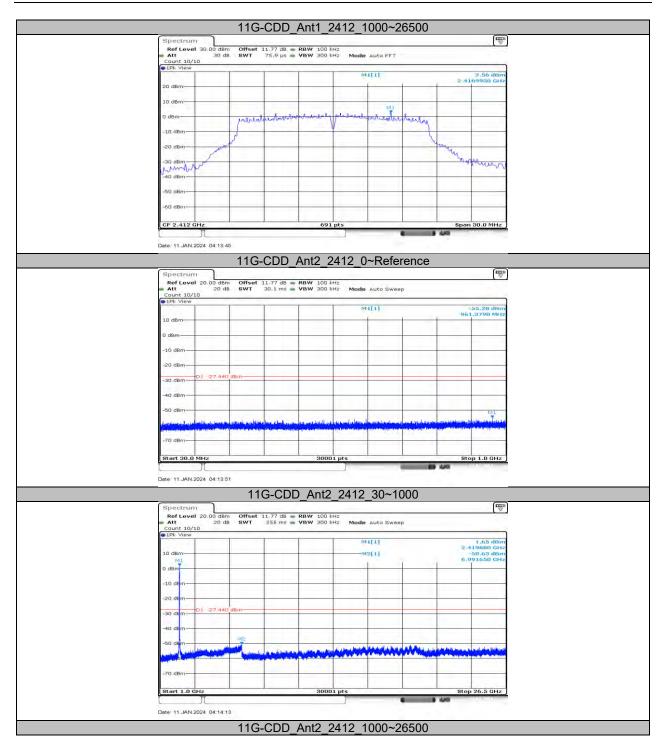




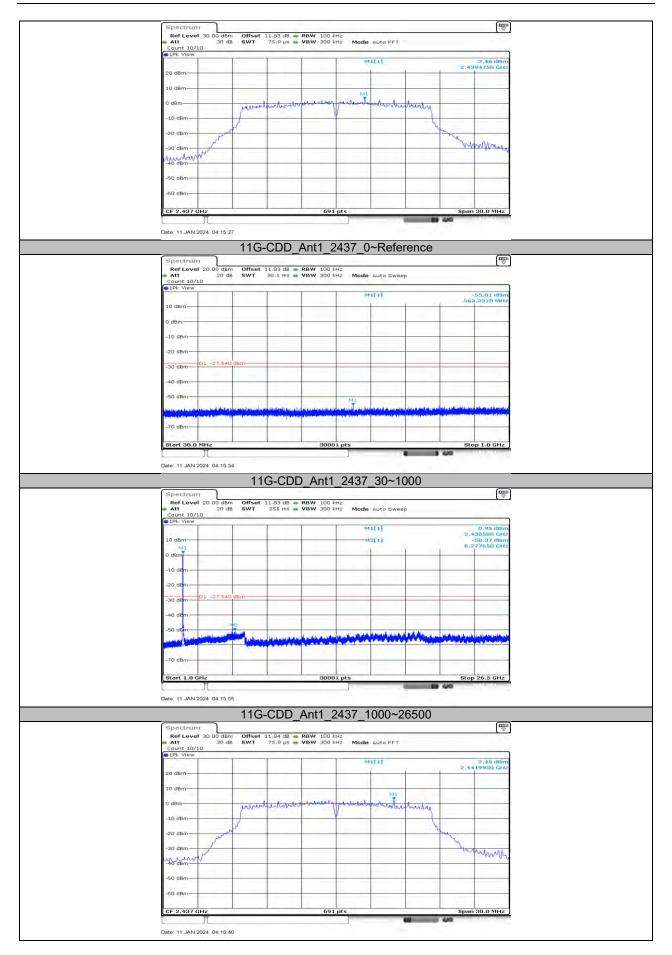




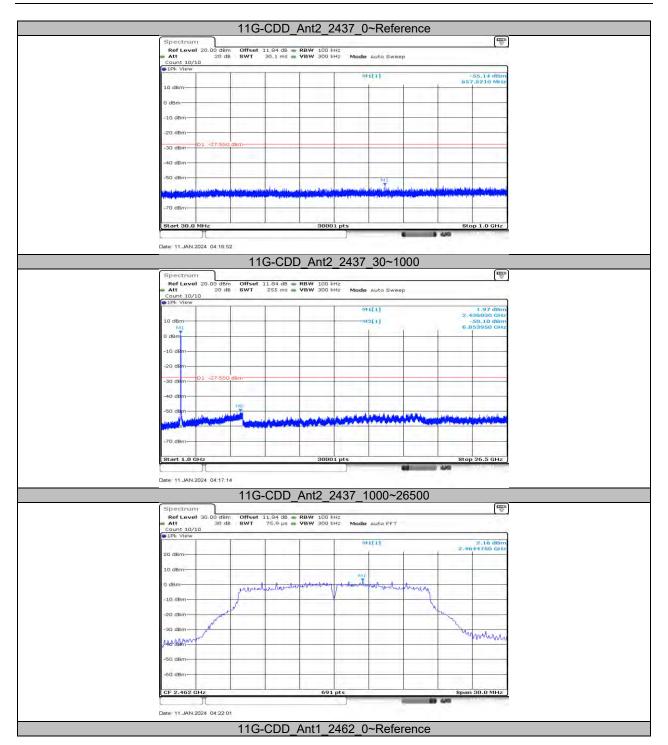




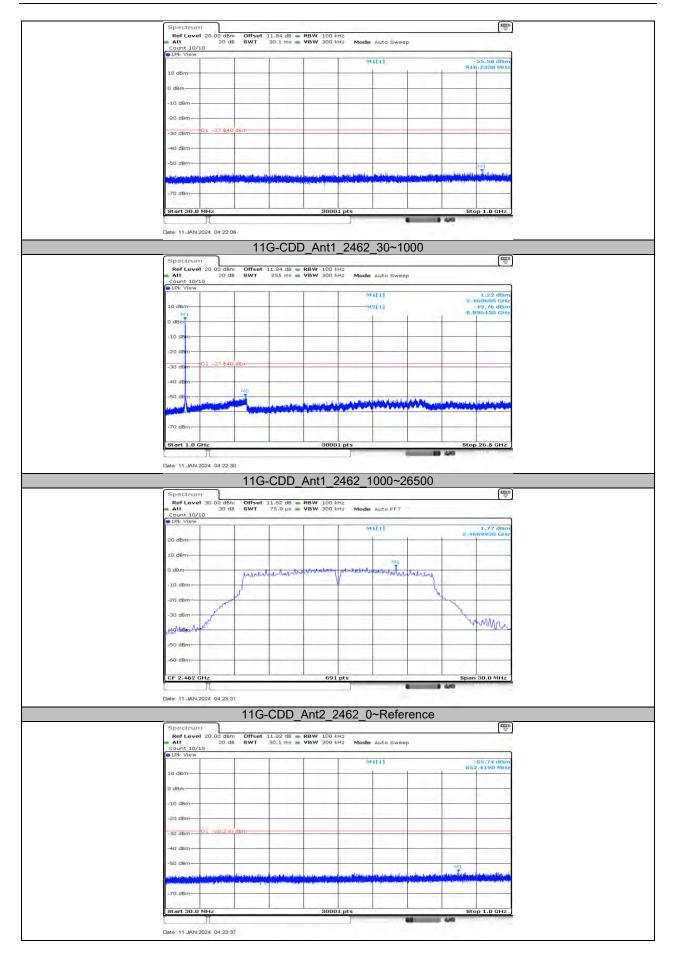




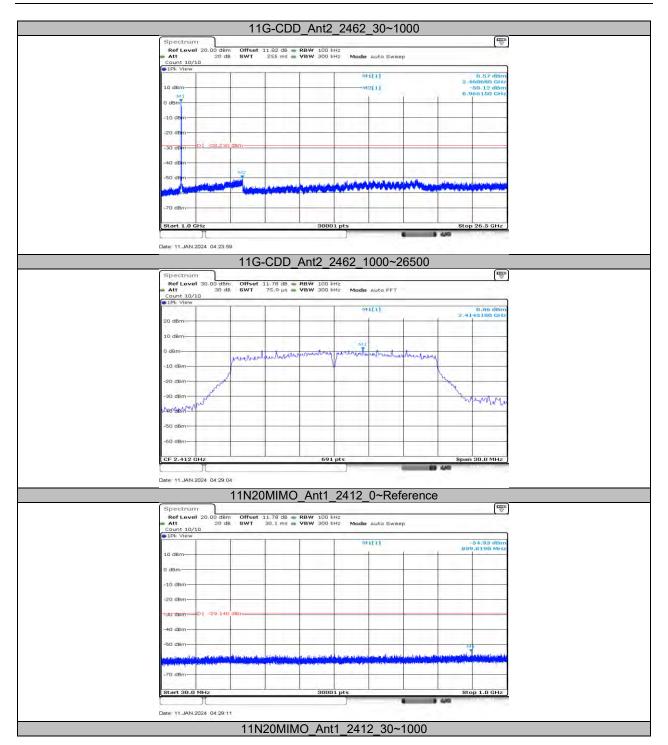




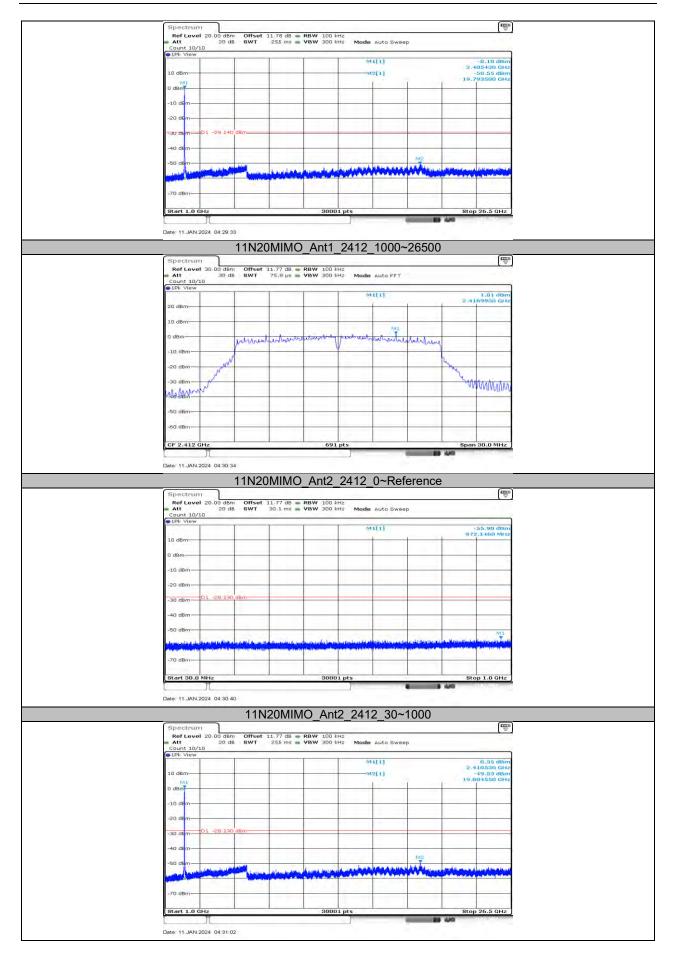




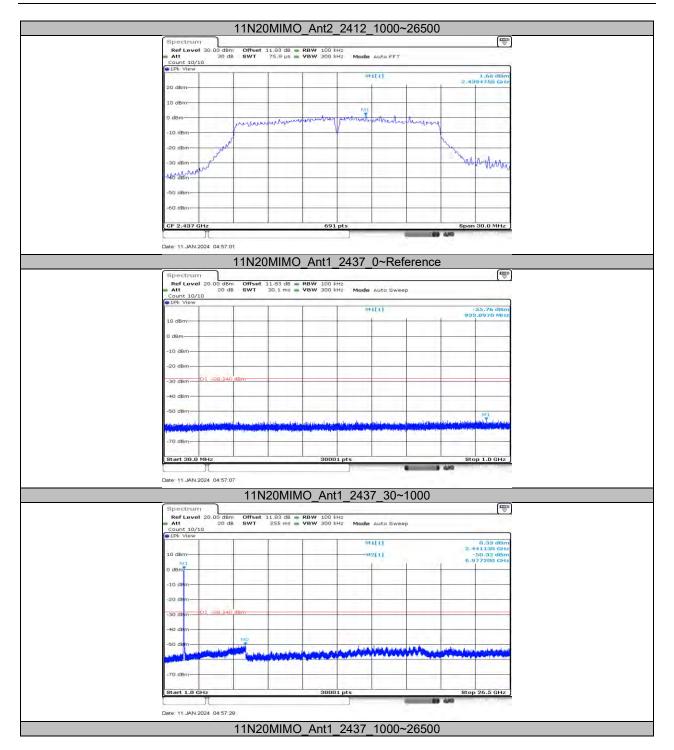




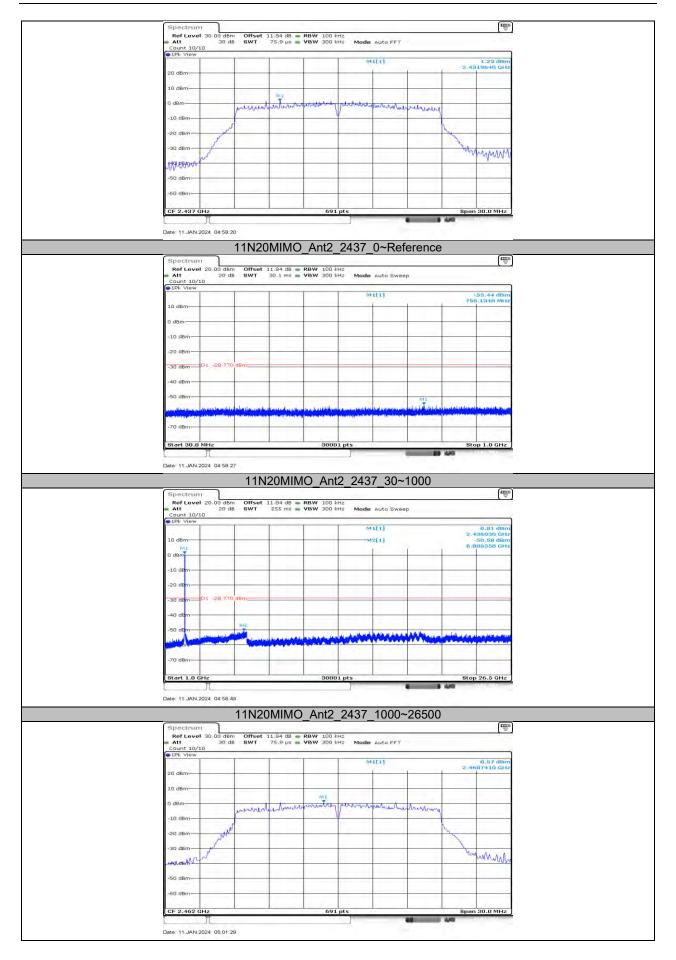




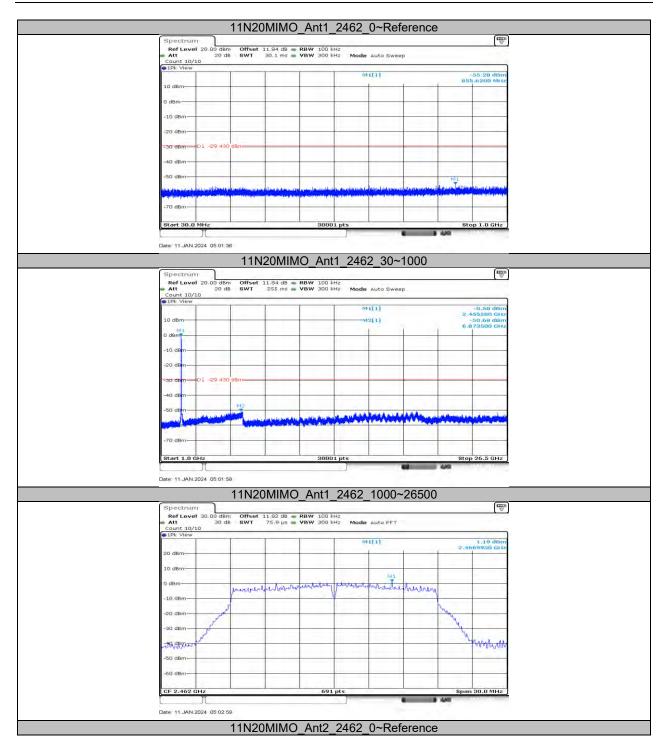




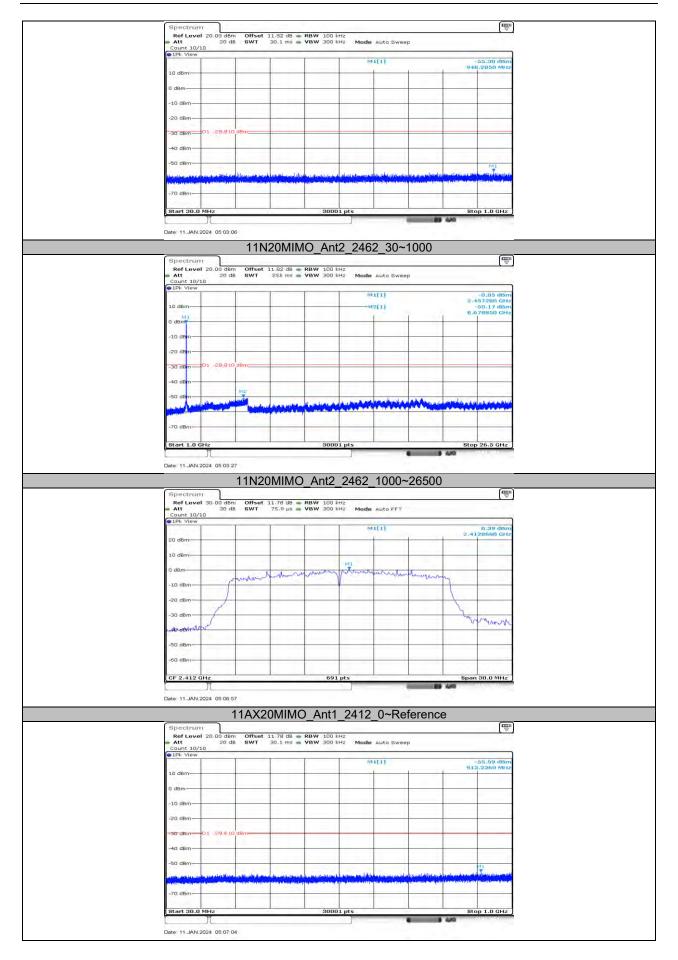




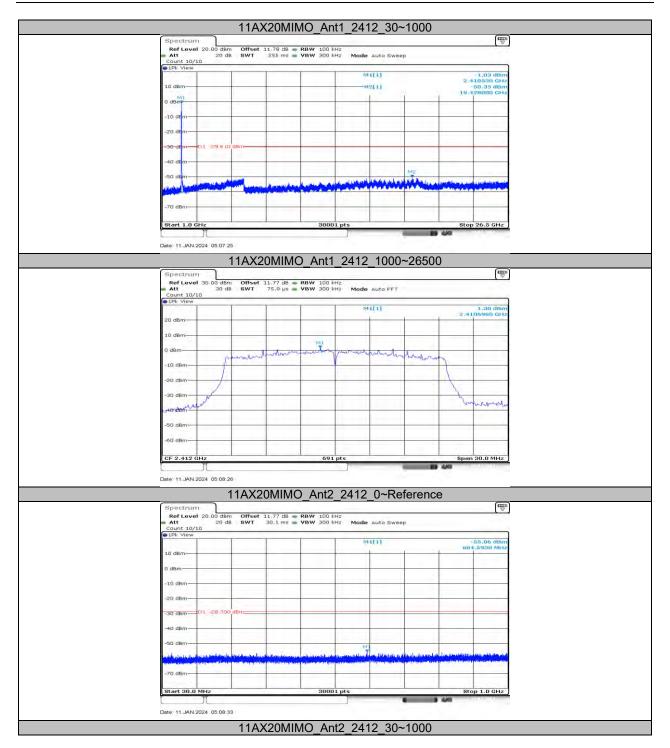




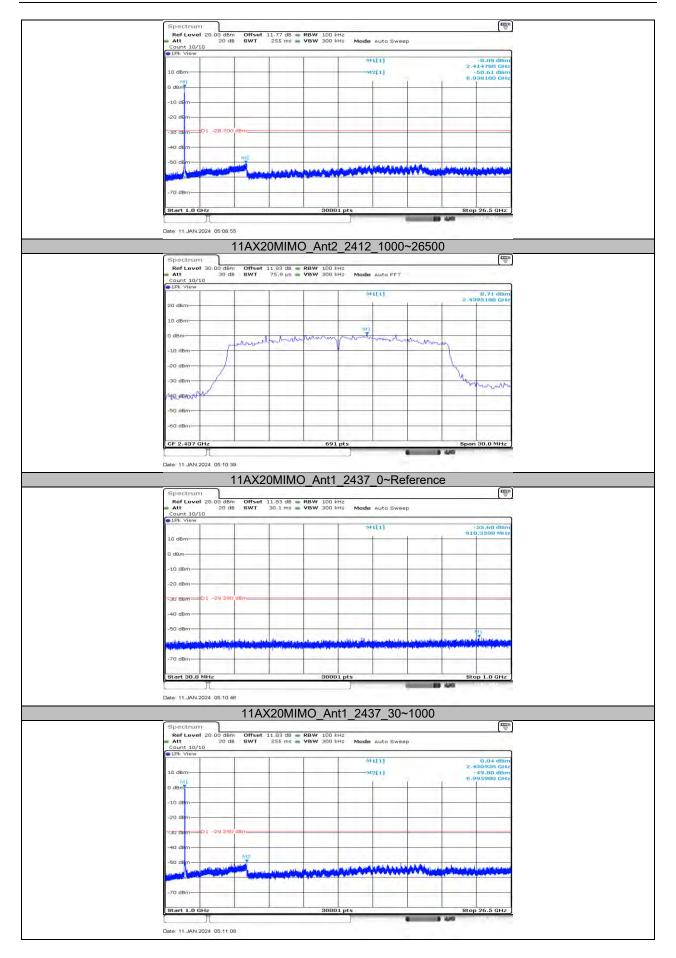




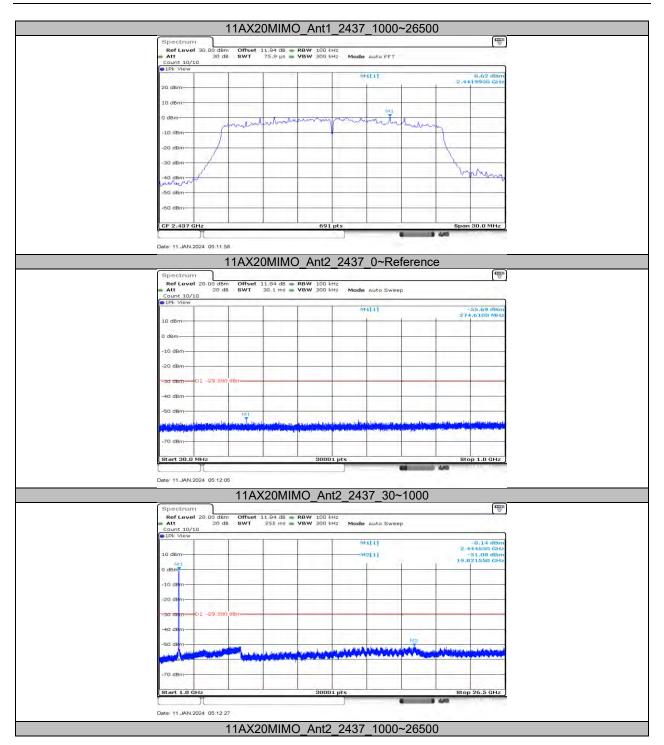




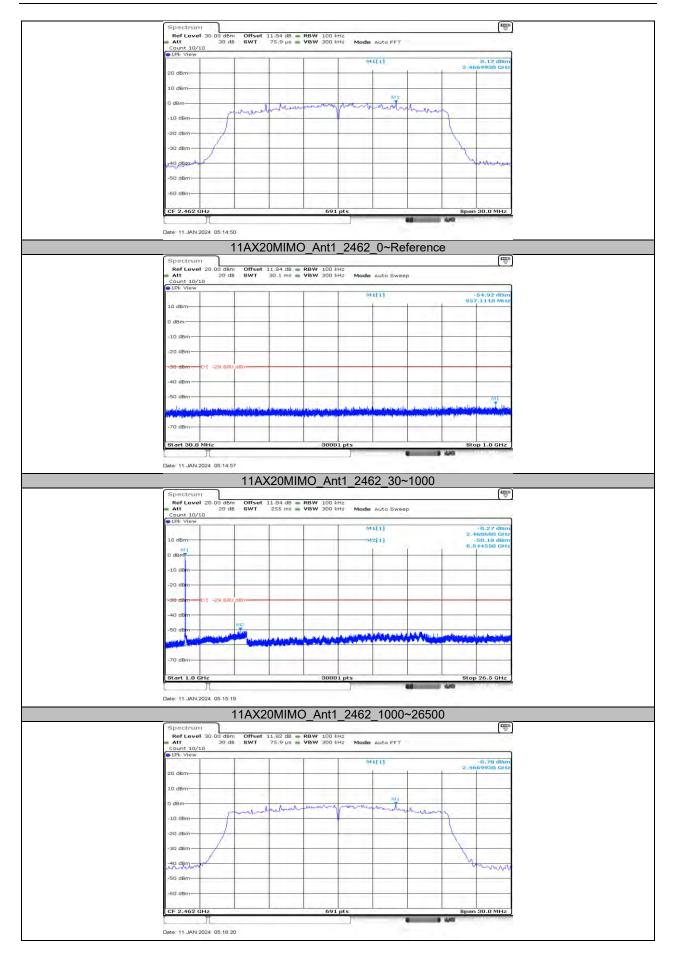




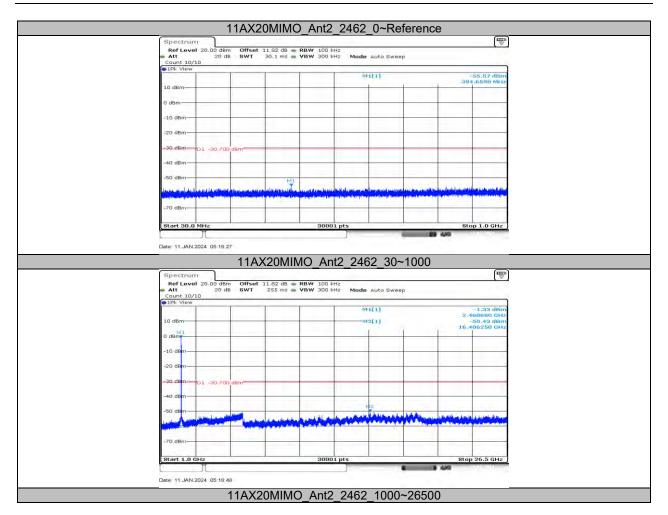














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11.7. APPENDIX G: DUTY CYCLE 11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B-CDD	12.39	12.41	0.9984	99.84	0.01	0.08	0.01
11G-CDD	2.05	2.07	0.9903	99.03	0.04	0.49	0.01
11N20MIMO	1.90	1.92	0.9896	98.96	0.05	0.53	0.01
11AX20MIMO	1.49	1.51	0.9868	98.68	0.06	0.67	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

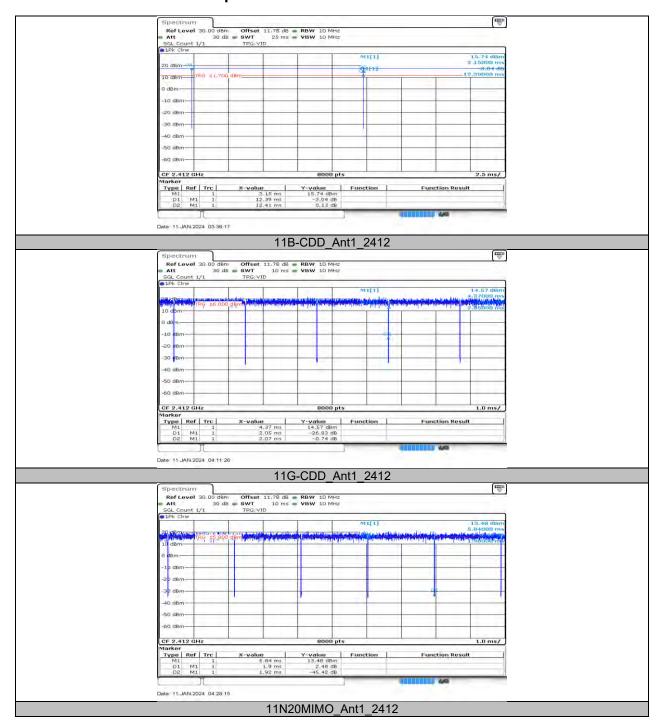
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.



11.7.2. Test Graphs







END OF REPORT