



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

TEST REPORT

For

Mobile Payment Terminal

MODEL NUMBER: D195

REPORT NUMBER: 4791059475-1-RF-3

ISSUE DATE: December 5, 2023

FCC ID: V5PD195 IC: 11689A-D195

Prepared for

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Prepared by

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Page 2 of 125

Revision History

Rev.Issue DateRevisionsRevised ByV0December 5, 2023Initial Issue



Page 3 of 125

Summary of Test Results

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

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

^{*}The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C

ISED RSS-247 ISSUE 3> when <Simple Acceptance> decision rule is applied.



CONTENTS

1. ATT	ATTESTATION OF TEST RESULTS			
2. TES	T METHODOLOGY	7		
3. FAC	ILITIES AND ACCREDITATION	7		
4. CAL	IBRATION AND UNCERTAINTY	8		
4.1.	MEASURING INSTRUMENT CALIBRATION	8		
4.2.	MEASUREMENT UNCERTAINTY	8		
5. EQU	JIPMENT UNDER TEST	9		
5.1.	DESCRIPTION OF EUT	9		
5.2.	CHANNEL LIST	9		
5.3.	MAXIMUM POWER	9		
<i>5.4.</i>	TEST CHANNEL CONFIGURATION	10		
5.5.	THE WORSE CASE POWER SETTING PARAMETER	10		
5.6.	THE WORSE CASE CONFIGURATIONS	11		
5.7.	DESCRIPTION OF AVAILABLE ANTENNAS	12		
5.8.	SUPPORT UNITS FOR SYSTEM TEST	13		
6. MEA	ASURING EQUIPMENT AND SOFTWARE USED	14		
7. ANT	ENNA PORT TEST RESULTS	17		
7.1.	CONDUCTED OUTPUT POWER	17		
7.2.	6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	18		
7.3.	POWER SPECTRAL DENSITY	20		
7.4.	CONDUCTED BAND EDGE AND SPURIOUS EMISSION	22		
7.5.	DUTY CYCLE	24		
8. RAD	DIATED TEST RESULTS	25		
8.1.	RESTRICTED BANDEDGE	33		
8.2.	SPURIOUS EMISSIONS(1 GHZ~3 GHZ)	50		
8.3.	SPURIOUS EMISSIONS(3 GHZ~18 GHZ)	56		
8.4.	SPURIOUS EMISSIONS(9 KHZ~30 MHZ)	80		
8.5.	SPURIOUS EMISSIONS(18 GHZ~26 GHZ)	83		
8.6.	SPURIOUS EMISSIONS(30 MHZ~1 GHZ)	85		
9. ANT	ENNA REQUIREMENT	87		
10.	AC POWER LINE CONDUCTED EMISSION	88		
11.	TEST DATA	91		
11.1.	APPENDIX A: DTS BANDWIDTH	91		



11.1.1.	Test Result	91
11.1.2.	Test Graphs	
11.2. 11.2.1. 11.2.2.	APPENDIX B: OCCUPIED CHANNEL BANDWIDTH Test Result Test Graphs	96
<i>11.3.</i> 11.3.1.	APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER Test Result	
11.4. 11.4.1. 11.4.2.	APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY Test Result Test Graphs	102
11.5. 11.5.1. 11.5.2.	APPENDIX E: BAND EDGE MEASUREMENTS Test Result Test Graphs	107
11.6. 11.6.1. 11.6.2.	APPENDIX F: CONDUCTED SPURIOUS EMISSION Test Result Test Graphs	111
11.7. 11.7.1. 11.7.2.	APPENDIX G: DUTY CYCLE Test Result Test Graphs	123



Page 6 of 125

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: PAX Technology Limited

Address: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road,

Wanchai, Hong Kong

Manufacturer Information

Company Name: PAX Technology Limited

Address: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road,

Wanchai, Hong Kong

EUT Information

EUT Name: Mobile Payment Terminal

Model: D195 Brand: PAX

Sample Received Date: November 2, 2023

Sample Status: Normal Sample ID: 6613116

Date of Tested: November 2, 2023 to December 5, 2023

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

Prepared By: Checked By:

Kebo Zhang Denny Huang

Senior Project Engineer Senior Project Engineer

Approved By:

Stephen Guo

Operations Manager



Page 7 of 125

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.



Page 8 of 125

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted	±0.746 dB (9 kHz ~ 1 GHz)
Frequency Bands	±1.328dB (1 GHz ~ 26 GHz)

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

Page 9 of 125

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Mobile Payment Terminal
Model	D195

Radio Technology	IEEE802.11b/g/n HT20/HT40
Operation frequency	IEEE 802.11b: 2412MHz ~ 2462MHz IEEE 802.11g: 2412MHz ~ 2462MHz IEEE 802.11n HT20: 2412MHz ~ 2462MHz IEEE 802.11n HT40: 2422MHz ~ 2452MHz
Modulation	IEEE 802.11b: DSSS (CCK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)
Rated Input:	DC 5 V, 1 A
Battery:	3.7V/2100mAh

5.2. CHANNEL LIST

	Channel List For Bandwidth=20 MHz						
Channel Channel Channel 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	/	/

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

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	17.28
g	2412 ~ 2462	1-11[11]	15.33
n HT20	2412 ~ 2462	1-11[11]	14.11
n HT40	2422 ~ 2452	3-9[7]	14.60



Page 10 of 125

5.4. TEST CHANNEL CONFIGURATION

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

5.5. THE WORSE CASE POWER SETTING PARAMETER

The W	The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Softw	vare			PU	TTY			
	Transmit			Test C	Channel			
Modulation Mode	Antenna		NCB: 20MHz			NCB: 40MHz		
Wode	Number	CH 1	CH 6	CH 11	CH 3	CH 6	CH 9	
802.11b	1	42	42	42				
802.11g	1	48 48 48 /						
802.11n HT20	1	46 46 46						
802.11n HT40	1		/		46	46	46	



Page 11 of 125

5.6. THE WORSE CASE CONFIGURATIONS

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

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

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

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

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

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



Page 12 of 125

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)	
1	2412-2462	FPC	0.63	

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

Page 13 of 125

5.8. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E14	/
2	Adapter	N/A	GLH50E1000HW	Input: 100-240V~, 50/60Hz, 0.40A Output: DC 5V1A, 5W

I/O CABLES

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

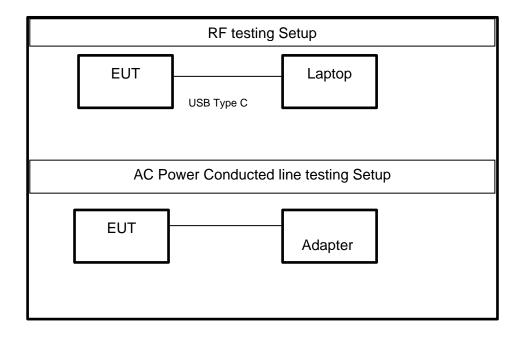
ACCESSORIES

Item	Equipment	Brand Name	Model Name	Remarks
/	1	/	/	1

TEST SETUP

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

SETUP DIAGRAM FOR TESTS





Page 14 of 125

6. MEASURING EQUIPMENT AND SOFTWARE USED

	R&S TS 8997 Test System									
Equipment		Man	nufac	turer	Model	No.	Serial No.	Last C	Cal.	Due. Date
Power sensor, Power M	leter		R&S	;	OSP1	20	100921	Mar.31,	2023	Mar.30,2024
Vector Signal General	tor		R&S	;	SMBV1	00A	261637	Oct.12,	2023	Oct.11, 2024
Signal Generator			R&S		SMB10	A00	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	/lanuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em	Rol	nde &	Schwar	Z	EMC	32		10.60.10
	Tonsend RF Test System									
Equipment	Man	ufact	turer	Mod	del No.	S	erial No.	Last C	Cal.	Due. Date
Wideband Radio Communication Tester		R&S		СМ	W500	155523		Oct.12, 2023		Oct.11, 2024
Wireless Connectivity Tester		R&S		СМ	W270	120	1.0002N75- 102	Sep.25,	2023	Sep.24, 2024
PXA Signal Analyzer	K	eysig	ht	N9	030A	MY	′55410512	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	K	eysig	ht	N5	182B	MY	′56200284	Oct.12,	2023	Oct.11, 2024
MXG Vector Signal Generator	K	eysig	ht	N5	172B	MY	′56200301	Oct.12,	2023	Oct.11, 2024
DC power supply	Ke	eysig	ht	E3	642A	MY	′55159130	Oct.12,	2023	Oct.11, 2024
Temperature & Humidity Chamber	SAI	OMV	OD	SG-8	80-CC-2		2088	Oct.12,	2023	Oct.11, 2024
Attenuator	Α	glien	glient 84		195B	28	14a12853	Oct.12,	2023	Oct.11, 2024
RF Control Unit	То	nsce	nscend JS0806		0806-2	23E	380620666	April 18,	2023	April 17, 2024
					Softwa	re				
Description		Man	ufact	urer			Name			Version
Tonsend SRD Test Syst	tem	To	onser	nd	JS1	120-3	3 RF Test S	ystem		V3.2.22



Page 15 of 125

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

Radiated Emissions								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date			
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024			
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024			
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024			
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024			
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024			
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.12, 2023	Oct.11, 2024			
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024			
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.12, 2023	Oct.11, 2024			
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.12, 2023	Oct.11, 2024			
Loop antenna	Schwarzbeck	1519B	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			
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	Oct.12, 2023	Oct.11, 2024			
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	Oct.12, 2023	Oct.11, 2024			
Band Reject Filter	Wainwright	WRCJV20- 5120-5150- 5350-5380- 60SS	2	Oct.12, 2023	Oct.11, 2024			



Band Reject Filter	Wainwright	WRCJV20- 5440-5470- 5725-5755- 60SS	1	Oct.12, 2023	Oct.11, 2024			
Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024			
Band Reject Filter	Wainwright	WRCD5- 1879- 1879.85- 1880.15- 1881-40SS	1	Oct.12, 2023	Oct.11, 2024			
Notch Filter	Wainwright	WHJ10-882- 980-7000- 40SS	1	Oct.12, 2023	Oct.11, 2024			
Highpass Filter	Xingbo	XBLBQ- GTA68	211115-2-1	Oct.12, 2023	Oct.11, 2024			
Notch Filter (5905-6445 MHz)	Xingbo	XBLBQ- DZA175	210922-2-1	Oct.12, 2023	Oct.11, 2024			
Notch Filter (6425-6525 MHz)	Xingbo	XBLBQ- DZA176	210922-2-2	Oct.12, 2023	Oct.11, 2024			
Notch Filter (6825-7125 MHz)	Xingbo	XBLBQ- DZA177	210922-2-3	Oct.12, 2023	Oct.11, 2024			
Notch Filter (6525-6875 MHz)	Xingbo	XBLBQ- DZA178	210922-2-4	Oct.12, 2023	Oct.11, 2024			
	Software							
Г	Description		Manufacturer	Name	Version			
Test Software	for Radiated E	Emissions	Farad	EZ-EMC	Ver. UL-3A1			

Other Instrument								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date			
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.21, 2023	Oct.20, 2024			
Barometer	Yiyi	Baro	N/A	Oct.19, 2023	Oct.18, 2024			
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024			

Page 17 of 125

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

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

TEST PROCEDURE

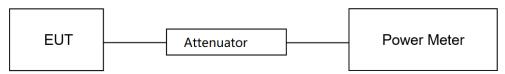
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

The test result in dBm by adding [10 log (1 / D)], where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1°C	Relative Humidity	52%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	November 14, 2023	Test By	Walker Yuan

TEST RESULTS

Please refer to section "Test Data" - Appendix C

Page 18 of 125

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

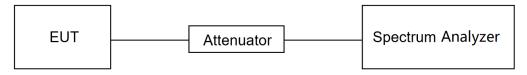
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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
IV/BW/	For 6 dB Bandwidth: ≥3 x RBW For 99 % Occupied Bandwidth: ≥3 x RBW
Trace	Max hold
Sweep	Auto couple

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

TEST SETUP





Page 19 of 125

TEST ENVIRONMENT

Temperature	25.1°C	Relative Humidity	52%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	November 14, 2023	Test By	Walker Yuan

TEST RESULTS

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

Page 20 of 125

7.3. POWER SPECTRAL DENSITY

LIMITS

	CFR 47 FCC Part15 (15.2 ISED RSS-247 I		
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.

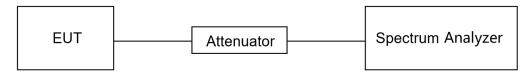
Connect the EUT to the spectrum analyzer and use the following settings:

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	25.1°C	Relative Humidity	52%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

proof Date proveniber 14, 2020 proof by prainter radii	Test Date	November 14, 2023	Test By	Walker Yuan
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Page 21 of 125

TEST RESULTS

Please refer to section "Test Data" - Appendix D



Page 22 of 125

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

TEST PROCEDURE

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

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

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

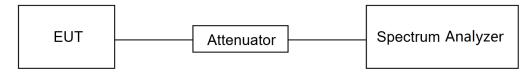
Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

1.50a0	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.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1°C	Relative Humidity	52%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date November 14, 2023	Test By	Walker Yuan
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Page 23 of 125

TEST RESULTS

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



Page 24 of 125

7.5. DUTY CYCLE

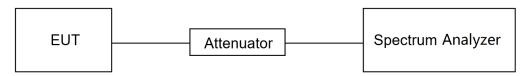
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

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

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	52%
Atmosphere Pressure	101.2kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	November 14, 2023	Test Bv	Walker Yuan
		· · · ·	

TEST RESULTS

Please refer to section "Test Data" - Appendix G



Page 25 of 125

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	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
		Quasi-P	'eak
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

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

ISED General field strength limits at frequencies below 30 MHz

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

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



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

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	158.52475 - 158.52525	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
1.125 - 4.128	167.72 - 173.2	14.47 - 14.5
1.17725 - 4.17775	240 – 285	15.35 - 16.2
1.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
3.215 - 6.218	608 - 614	23.6 - 24.0
3.28775 - 6.28825	960 - 1427	31.2 - 31.8
3.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
3.291 - 8.294	1845.5 - 1848.5	Above 38.6
3.362 - 8.366	1660 - 1710	
3.37625 - 8.38675	1718.8 - 1722.2	
3.41425 - 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		
ote 1: Certain frequency ban		

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

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

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

TEST PROCEDURE

Below 30 MHz



Page 27 of 125

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.



Page 28 of 125

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

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

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.



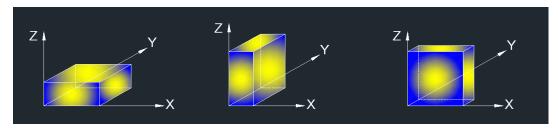
Above 1 GHz

The setting of the spectrum analyzer

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

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

X axis, Y axis, Z axis positions:



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

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



REPORT NO.: 4791059475-1-RF-3 Page 30 of 125

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.

REPORT NO.: 4791059475-1-RF-3 Page 31 of 125

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

Note:

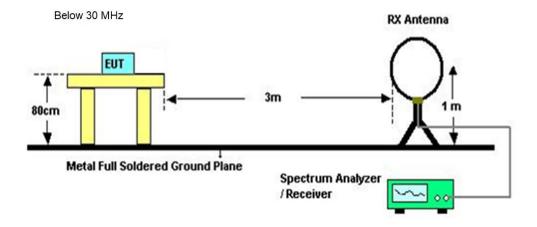
- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration,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

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

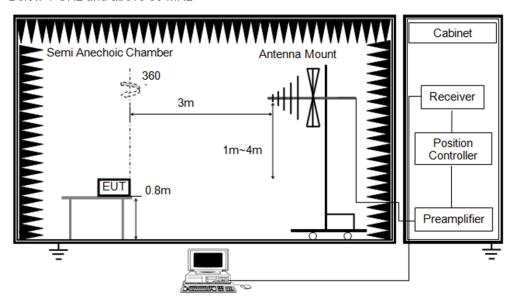
Note:

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

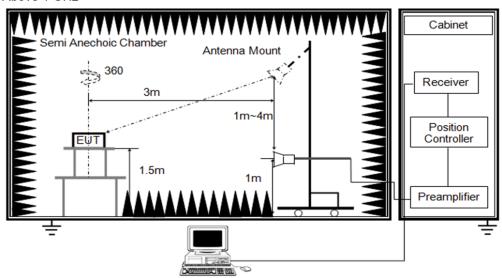
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	24.8℃	Relative Humidity	59%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

t			
Test Date	December 5, 2023	Test By	Rex Huang

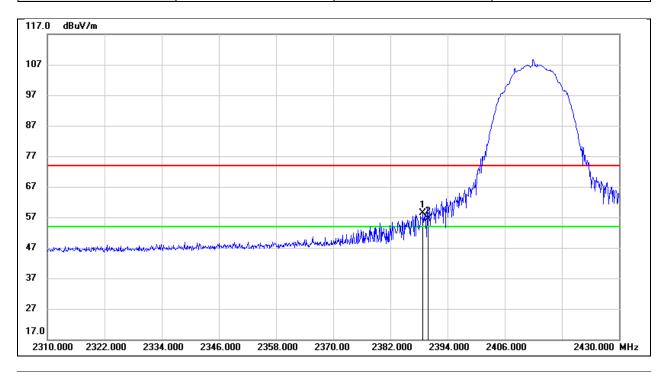
TEST RESULTS



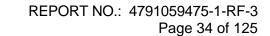
Page 33 of 125

8.1. RESTRICTED BANDEDGE

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



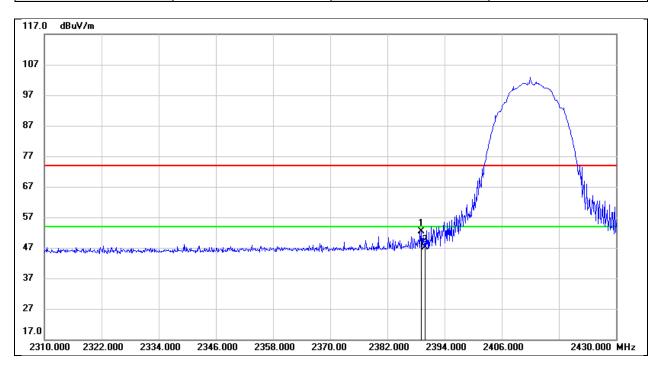
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.840	26.25	32.16	58.41	74.00	-15.59	peak
2	2390.000	24.18	32.16	56.34	74.00	-17.66	peak





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

 Polarity:
 Vertical
 Test Voltage:
 DC 5 V

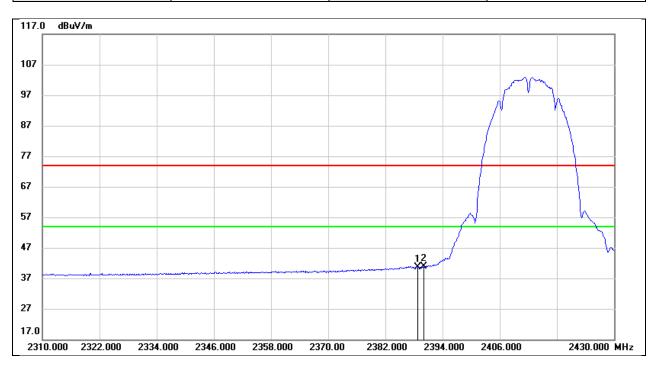


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.080	20.20	32.16	52.36	74.00	-21.64	peak
2	2390.000	15.01	32.16	47.17	74.00	-26.83	peak

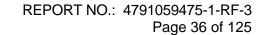




Test Mode: 802.11b AV Frequency(MHz): 2412
Polarity: Horizontal Test Voltage: DC 5 V

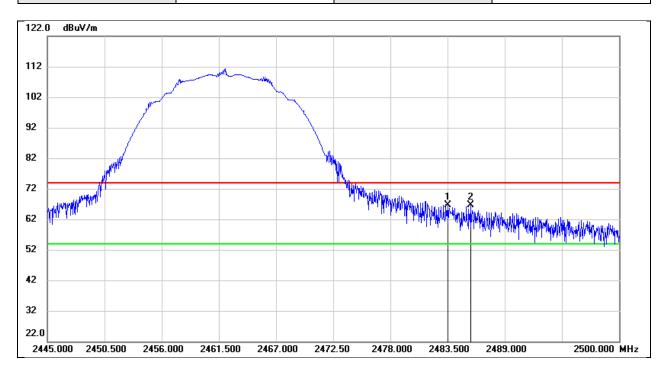


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.840	8.35	32.16	40.51	54.00	-13.49	AVG
2	2390.000	8.73	32.16	40.89	54.00	-13.11	AVG

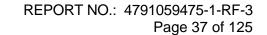




Test Mode: 802.11b PK Frequency(MHz): 2462
Polarity: Horizontal Test Voltage: DC 5 V

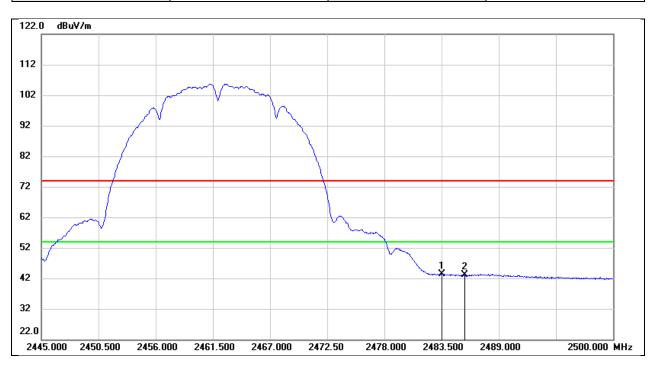


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	34.12	32.44	66.56	74.00	-7.44	peak
2	2485.700	34.15	32.44	66.59	74.00	-7.41	peak

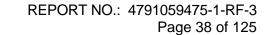




Test Mode: 802.11b AV Frequency(MHz): 2462
Polarity: Horizontal Test Voltage: DC 5 V

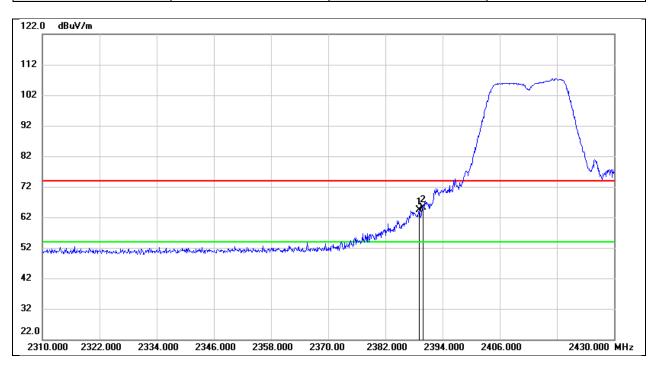


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	11.04	32.44	43.48	54.00	-10.52	AVG
2	2485.700	10.62	32.44	43.06	54.00	-10.94	AVG

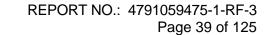




Test Mode: 802.11g PK Frequency(MHz): 2412
Polarity: Horizontal Test Voltage: DC 5 V



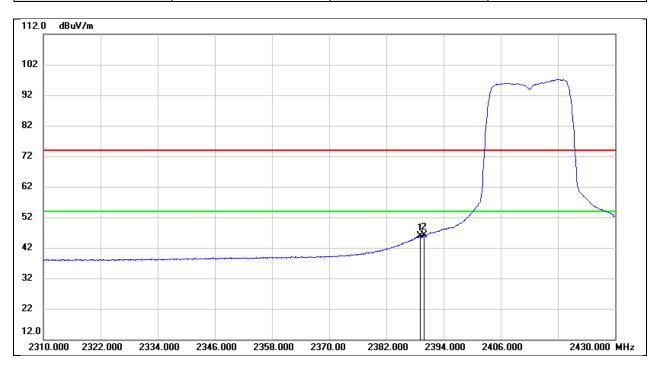
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.080	32.18	32.16	64.34	74.00	-9.66	peak
2	2390.000	33.06	32.16	65.22	74.00	-8.78	peak





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

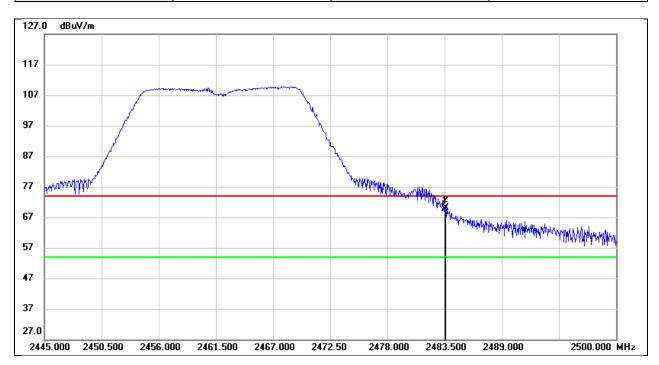
Polarity: Horizontal Test Voltage: DC 5 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.080	13.64	32.16	45.80	54.00	-8.20	AVG
2	2390.000	14.05	32.16	46.21	54.00	-7.79	AVG



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

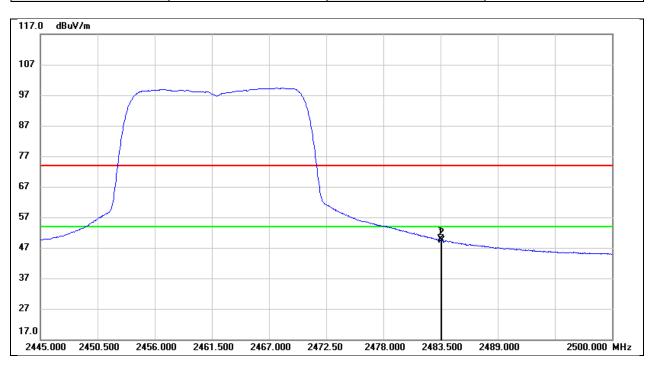


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.24	32.44	69.68	74.00	-4.32	peak
2	2483.610	37.73	32.44	70.17	74.00	-3.83	peak



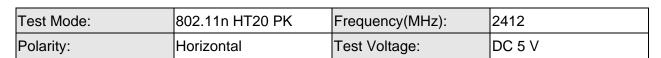


Test Mode:802.11g AVFrequency(MHz):2462Polarity:HorizontalTest Voltage:DC 5 V

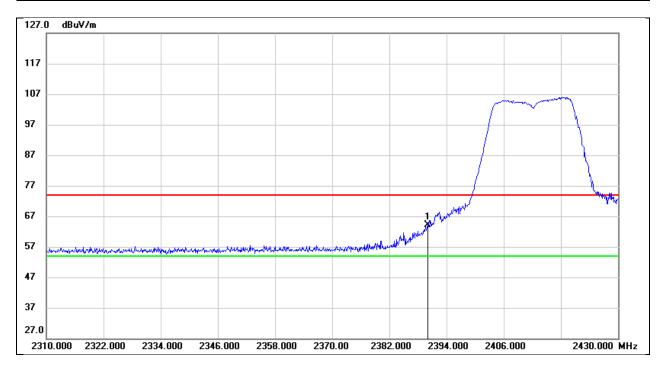


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	17.34	32.44	49.78	54.00	-4.22	AVG
2	2483.610	16.99	32.44	49.43	54.00	-4.57	AVG





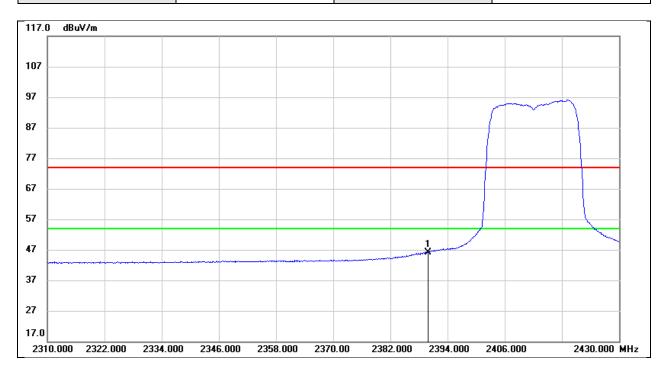
Solutions



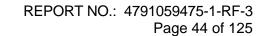
N	lo.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	2390.000	31.93	32.16	64.09	74.00	-9.91	peak



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

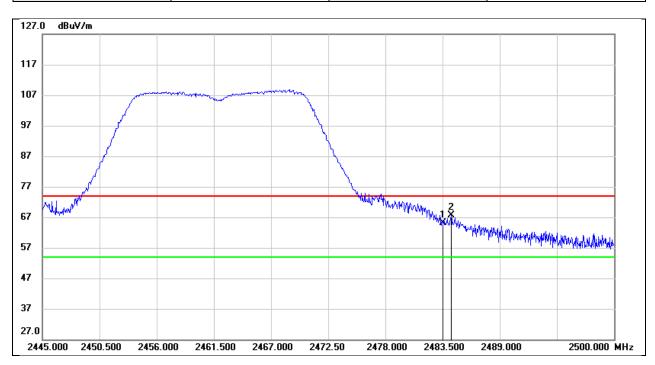


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	14.02	32.16	46.18	54.00	-7.82	AVG

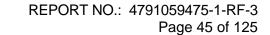




Test Mode:	802.11n HT20 PK	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V

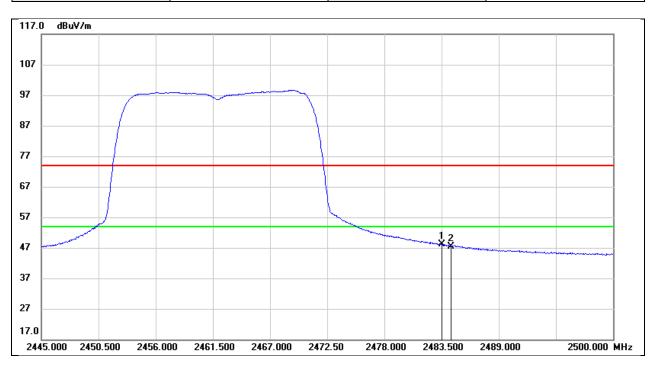


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	32.68	32.44	65.12	74.00	-8.88	peak
2	2484.325	35.11	32.44	67.55	74.00	-6.45	peak





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

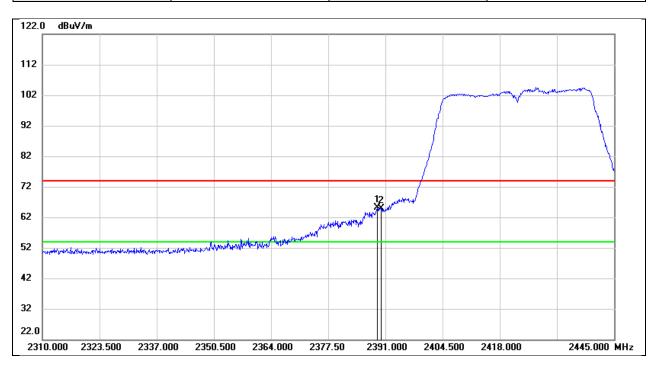


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	15.74	32.44	48.18	54.00	-5.82	AVG
2	2484.325	15.04	32.44	47.48	54.00	-6.52	AVG

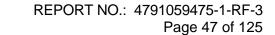




Test Mode: 802.11n HT40 PK Frequency(MHz): 2422
Polarity: Horizontal Test Voltage: DC 5 V

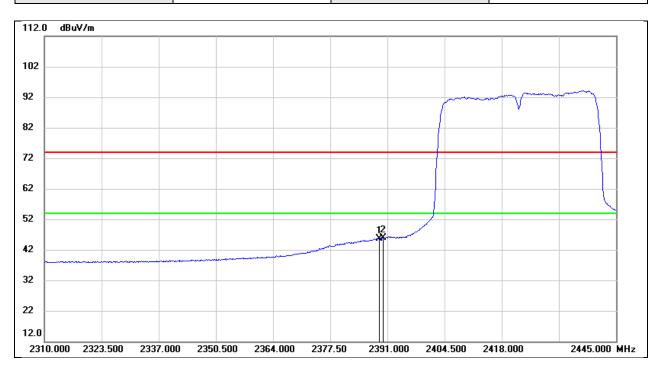


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.110	32.85	32.16	65.01	74.00	-8.99	peak
2	2390.000	32.75	32.16	64.91	74.00	-9.09	peak





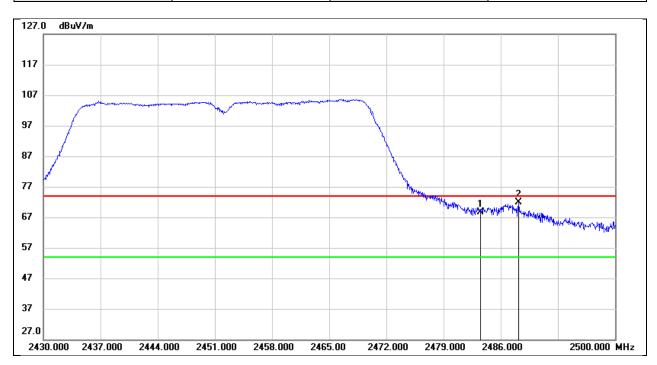
Test Mode: 802.11n HT40 AV Frequency(MHz): 2422
Polarity: Horizontal Test Voltage: DC 5 V



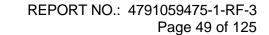
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.110	13.49	32.16	45.65	54.00	-8.35	AVG
2	2390.000	13.72	32.16	45.88	54.00	-8.12	AVG



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

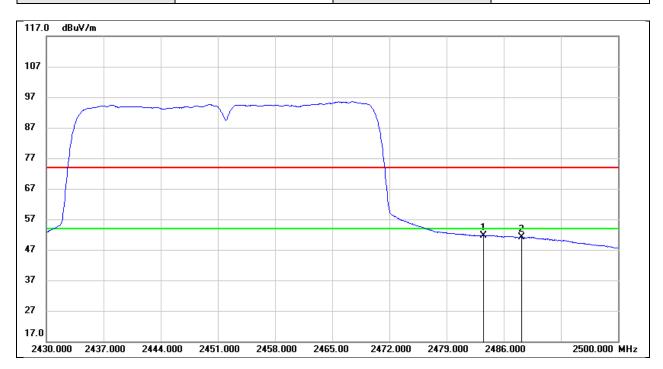


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.08	32.44	68.52	74.00	-5.48	peak
2	2488.170	39.44	32.46	71.90	74.00	-2.10	peak





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



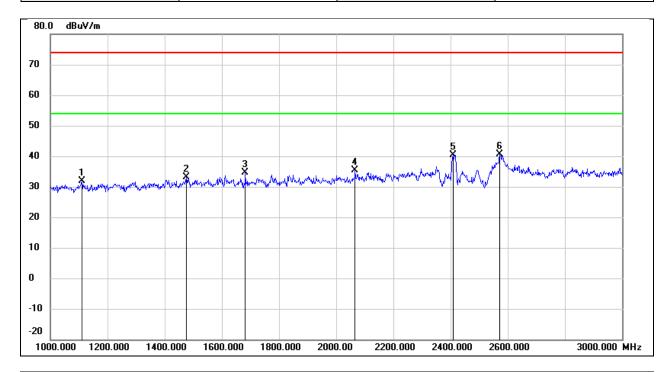
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	19.19	32.44	51.63	54.00	-2.37	AVG
2	2488.170	18.58	32.46	51.04	54.00	-2.96	AVG

REPORT NO.: 4791059475-1-RF-3

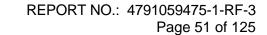
Page 50 of 125

8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

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

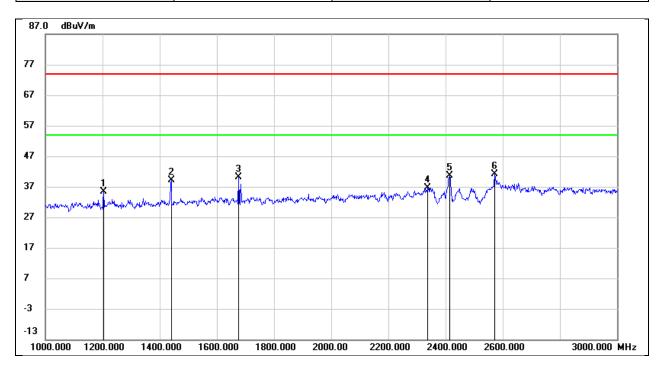


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1110.000	46.30	-14.52	31.78	74.00	-42.22	peak
2	1476.000	46.02	-12.82	33.20	74.00	-40.80	peak
3	1682.000	46.70	-12.11	34.59	74.00	-39.41	peak
4	2066.000	45.98	-10.72	35.26	74.00	-38.74	peak
5	2412.000	49.41	-8.96	40.45	/	/	fundamental
6	2572.000	48.94	-8.27	40.67	74.00	-33.33	peak

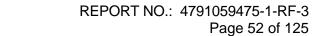




Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V

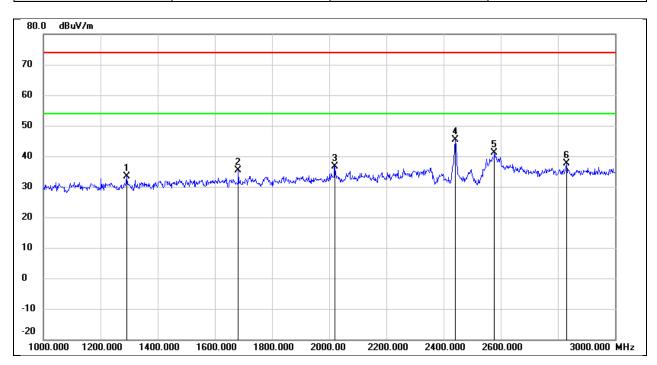


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1204.000	49.38	-14.09	35.29	74.00	-38.71	peak
2	1440.000	52.03	-12.98	39.05	74.00	-34.95	peak
3	1676.000	52.20	-12.13	40.07	74.00	-33.93	peak
4	2336.000	46.02	-9.33	36.69	74.00	-37.31	peak
5	2412.000	49.50	-8.93	40.57	/	/	fundamental
6	2572.000	49.34	-8.27	41.07	74.00	-32.93	peak

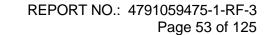




Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



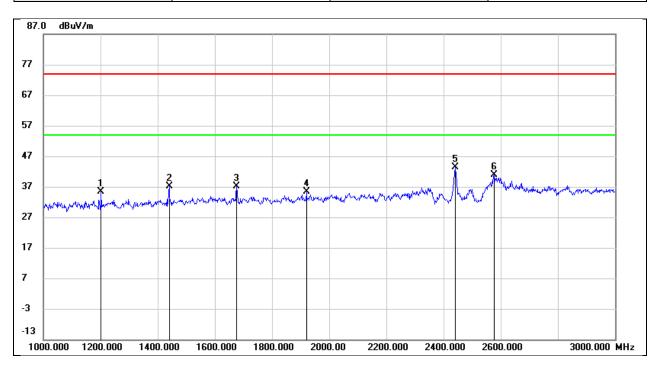
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1292.000	47.14	-13.68	33.46	74.00	-40.54	peak
2	1682.000	47.46	-12.11	35.35	74.00	-38.65	peak
3	2020.000	47.68	-10.96	36.72	74.00	-37.28	peak
4	2437.000	54.13	-8.79	45.34	/	/	fundamental
5	2578.000	49.50	-8.26	41.24	74.00	-32.76	peak
6	2830.000	45.13	-7.50	37.63	74.00	-36.37	peak



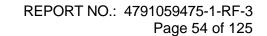


Test Mode: 802.11b Frequency(MHz): 2437

Polarity: Vertical Test Voltage: DC 5 V

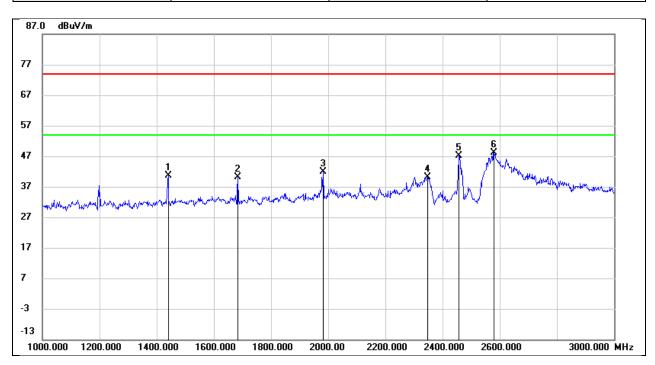


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1202.000	49.57	-14.09	35.48	74.00	-38.52	peak
2	1440.000	50.01	-12.98	37.03	74.00	-36.97	peak
3	1676.000	49.32	-12.13	37.19	74.00	-36.81	peak
4	1920.000	46.73	-11.32	35.41	74.00	-38.59	peak
5	2437.000	52.07	-8.79	43.28	/	/	fundamental
6	2578.000	49.22	-8.26	40.96	74.00	-33.04	peak

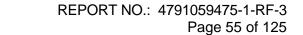




Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V

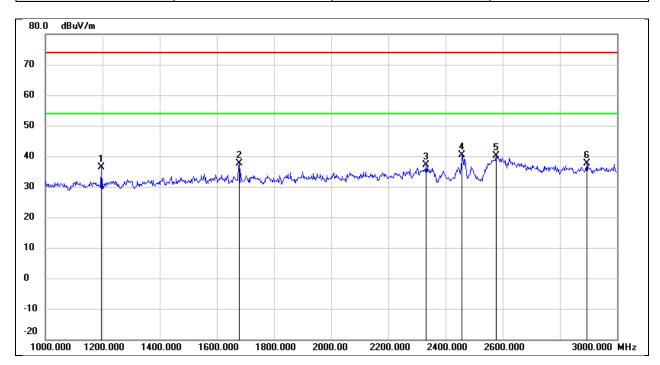


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1440.000	53.71	-12.98	40.73	74.00	-33.27	peak
2	1684.000	52.28	-12.10	40.18	74.00	-33.82	peak
3	1982.000	52.98	-11.12	41.86	74.00	-32.14	peak
4	2348.000	49.44	-9.28	40.16	74.00	-33.84	peak
5	2462.000	55.84	-8.71	47.13	/	/	fundamental
6	2580.000	56.50	-8.25	48.25	74.00	-25.75	peak





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



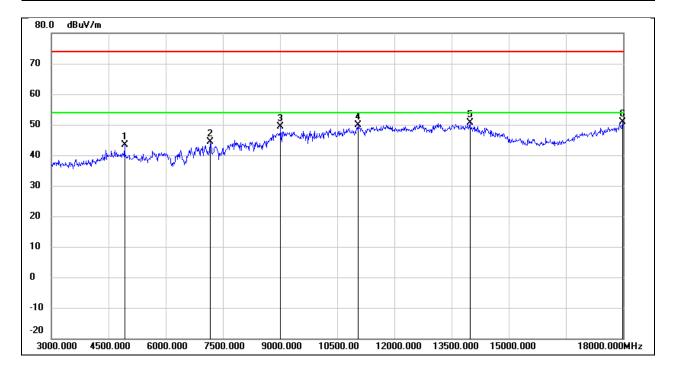
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1196.000	50.43	-14.12	36.31	74.00	-37.69	peak
2	1678.000	49.83	-12.12	37.71	74.00	-36.29	peak
3	2332.000	46.40	-9.36	37.04	74.00	-36.96	peak
4	2462.000	49.21	-8.71	40.50	/	/	fundamental
5	2576.000	48.44	-8.26	40.18	74.00	-33.82	peak
6	2894.000	44.86	-7.30	37.56	74.00	-36.44	peak

REPORT NO.: 4791059475-1-RF-3

Page 56 of 125

8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

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

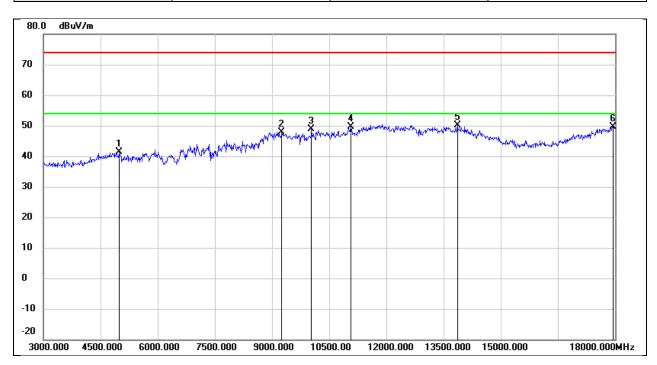


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	43.13	0.14	43.27	74.00	-30.73	peak
2	7170.000	37.88	6.56	44.44	74.00	-29.56	peak
3	9015.000	38.87	10.49	49.36	74.00	-24.64	peak
4	11055.000	34.94	14.96	49.90	74.00	-24.10	peak
5	13980.000	28.70	21.92	50.62	74.00	-23.38	peak
6	17985.000	25.25	25.60	50.85	74.00	-23.15	peak





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

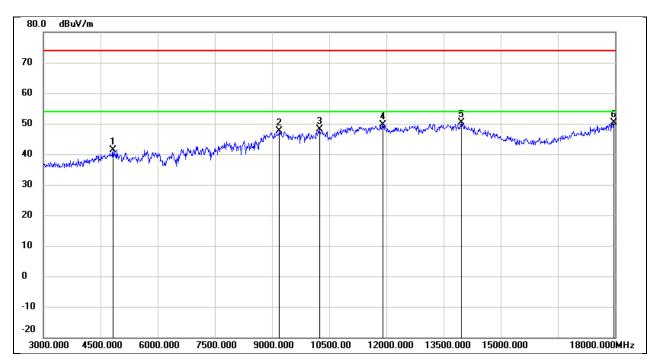


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4995.000	41.02	0.43	41.45	74.00	-32.55	peak
2	9255.000	37.25	10.59	47.84	74.00	-26.16	peak
3	10035.000	36.68	12.08	48.76	74.00	-25.24	peak
4	11070.000	34.50	15.03	49.53	74.00	-24.47	peak
5	13860.000	28.36	21.67	50.03	74.00	-23.97	peak
6	17955.000	24.28	25.42	49.70	74.00	-24.30	peak

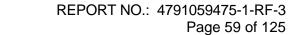




Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V

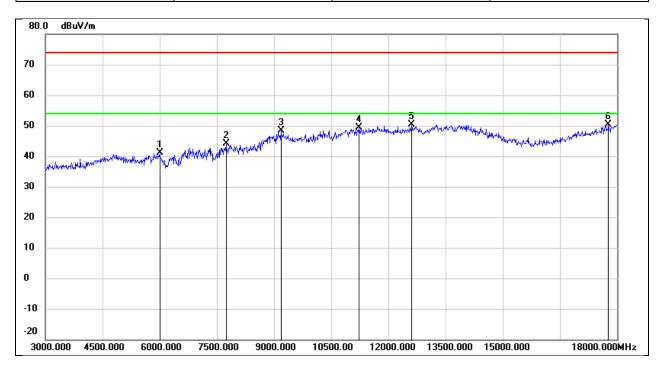


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	41.55	-0.20	41.35	74.00	-32.65	peak
2	9195.000	36.99	10.56	47.55	74.00	-26.45	peak
3	10245.000	35.65	12.48	48.13	74.00	-25.87	peak
4	11910.000	31.83	17.72	49.55	74.00	-24.45	peak
5	13965.000	28.47	21.89	50.36	74.00	-23.64	peak
6	17970.000	24.85	25.51	50.36	74.00	-23.64	peak

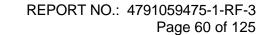




Test Mode:	802.11b	Frequency(MHz):	2437
Polarity:	Vertical	Test Voltage:	DC 5 V

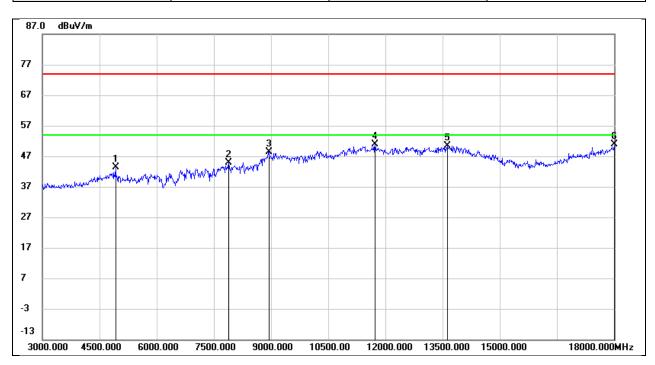


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6000.000	38.78	2.25	41.03	74.00	-32.97	peak
2	7740.000	37.74	6.32	44.06	74.00	-29.94	peak
3	9180.000	37.70	10.56	48.26	74.00	-25.74	peak
4	11235.000	33.71	15.63	49.34	74.00	-24.66	peak
5	12615.000	32.56	17.86	50.42	74.00	-23.58	peak
6	17775.000	25.91	24.36	50.27	74.00	-23.73	peak





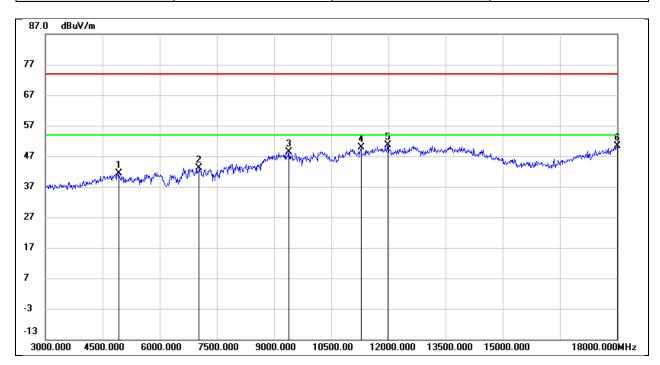
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



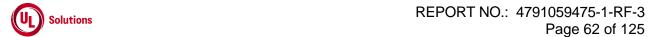
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	43.34	0.14	43.48	74.00	-30.52	peak
2	7890.000	38.69	6.31	45.00	74.00	-29.00	peak
3	8940.000	38.28	10.04	48.32	74.00	-25.68	peak
4	11730.000	33.58	17.22	50.80	74.00	-23.20	peak
5	13620.000	29.27	21.15	50.42	74.00	-23.58	peak
6	18000.000	25.12	25.69	50.81	74.00	-23.19	peak



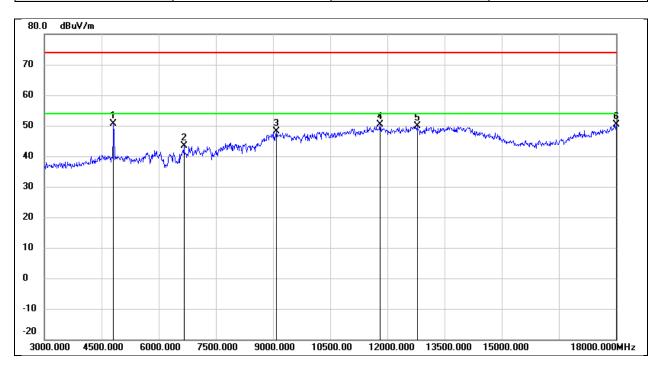
Test Mode:	802.11b	Frequency(MHz):	2462
Polarity:	Vertical	Test Voltage:	DC 5 V



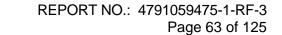
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	41.27	0.14	41.41	74.00	-32.59	peak
2	7035.000	36.55	6.67	43.22	74.00	-30.78	peak
3	9390.000	37.82	10.64	48.46	74.00	-25.54	peak
4	11280.000	34.13	15.80	49.93	74.00	-24.07	peak
5	11985.000	32.80	17.92	50.72	74.00	-23.28	peak
6	18000.000	24.67	25.69	50.36	74.00	-23.64	peak



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



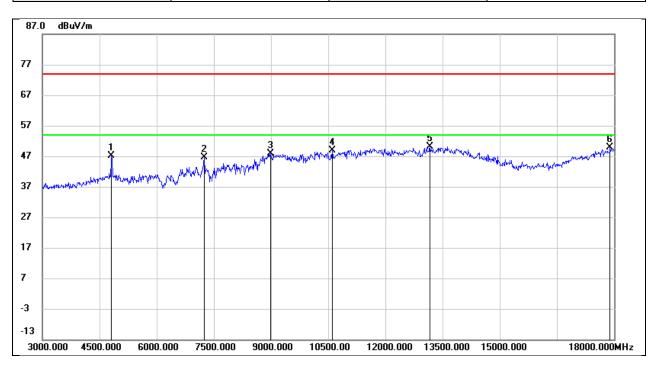
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	50.81	-0.26	50.55	74.00	-23.45	peak
2	6660.000	38.28	5.02	43.30	74.00	-30.70	peak
3	9090.000	37.51	10.51	48.02	74.00	-25.98	peak
4	11805.000	32.89	17.43	50.32	74.00	-23.68	peak
5	12780.000	31.68	18.24	49.92	74.00	-24.08	peak
6	18000.000	24.81	25.69	50.50	74.00	-23.50	peak



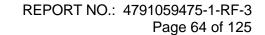


 Test Mode:
 802.11g
 Frequency(MHz):
 2412

 Polarity:
 Vertical
 Test Voltage:
 DC 5 V

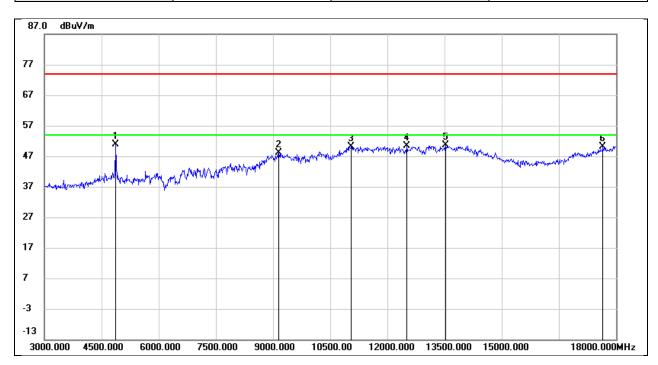


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	47.44	-0.26	47.18	74.00	-26.82	peak
2	7245.000	40.03	6.51	46.54	74.00	-27.46	peak
3	8985.000	37.60	10.37	47.97	74.00	-26.03	peak
4	10605.000	35.54	13.37	48.91	74.00	-25.09	peak
5	13170.000	30.60	19.46	50.06	74.00	-23.94	peak
6	17895.000	24.77	25.07	49.84	74.00	-24.16	peak

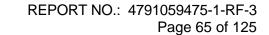




Test Mode:802.11gFrequency(MHz):2437Polarity:HorizontalTest Voltage:DC 5 V



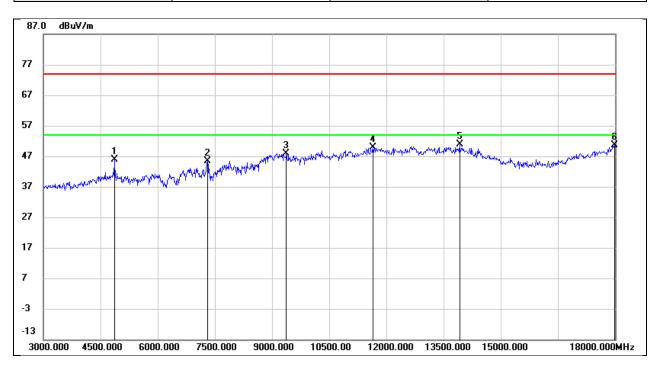
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	50.94	-0.03	50.91	74.00	-23.09	peak
2	9150.000	37.61	10.54	48.15	74.00	-25.85	peak
3	11055.000	35.26	14.96	50.22	74.00	-23.78	peak
4	12510.000	32.78	17.62	50.40	74.00	-23.60	peak
5	13530.000	29.68	20.96	50.64	74.00	-23.36	peak
6	17655.000	26.52	23.64	50.16	74.00	-23.84	peak



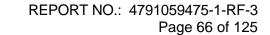


Test Mode: 802.11g Frequency(MHz): 2437

Polarity: Vertical Test Voltage: DC 5 V

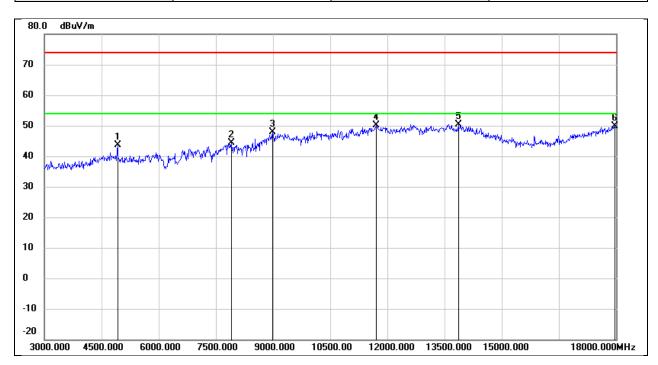


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	45.96	-0.09	45.87	74.00	-28.13	peak
2	7305.000	38.86	6.47	45.33	74.00	-28.67	peak
3	9375.000	37.18	10.64	47.82	74.00	-26.18	peak
4	11640.000	32.79	16.98	49.77	74.00	-24.23	peak
5	13920.000	29.01	21.79	50.80	74.00	-23.20	peak
6	17985.000	25.05	25.60	50.65	74.00	-23.35	peak

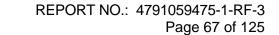




Test Mode: 802.11g Frequency(MHz): 2462
Polarity: Horizontal Test Voltage: DC 5 V

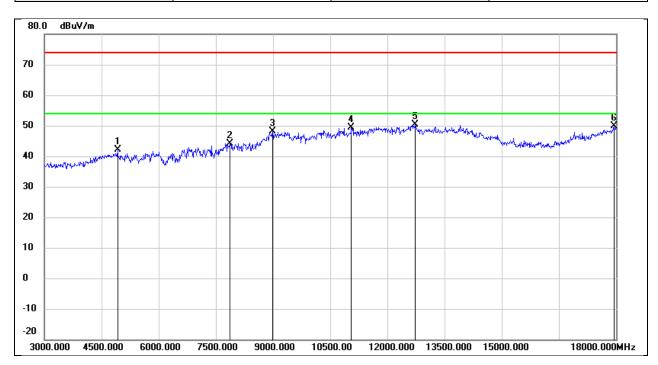


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	43.43	0.14	43.57	74.00	-30.43	peak
2	7905.000	38.03	6.31	44.34	74.00	-29.66	peak
3	8985.000	37.46	10.37	47.83	74.00	-26.17	peak
4	11715.000	32.87	17.19	50.06	74.00	-23.94	peak
5	13860.000	28.75	21.67	50.42	74.00	-23.58	peak
6	17970.000	24.29	25.51	49.80	74.00	-24.20	peak

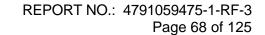




Test Mode: 802.11g Frequency(MHz): 2462
Polarity: Vertical Test Voltage: DC 5 V

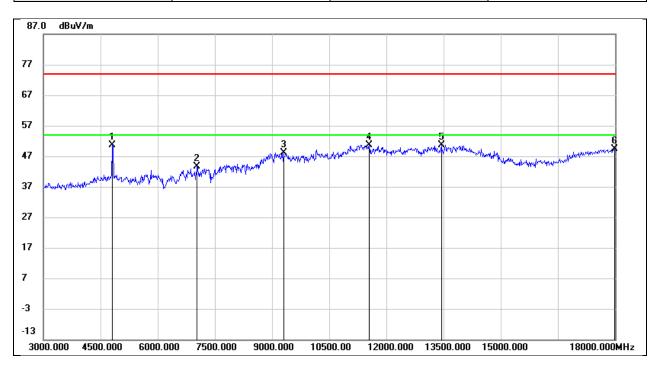


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	41.95	0.14	42.09	74.00	-31.91	peak
2	7875.000	37.87	6.31	44.18	74.00	-29.82	peak
3	8985.000	37.84	10.37	48.21	74.00	-25.79	peak
4	11055.000	34.37	14.96	49.33	74.00	-24.67	peak
5	12735.000	32.26	18.12	50.38	74.00	-23.62	peak
6	17940.000	24.63	25.34	49.97	74.00	-24.03	peak

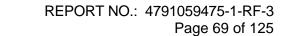




Test Mode: 802.11n HT20 Frequency(MHz): 2412
Polarity: Horizontal Test Voltage: DC 5 V

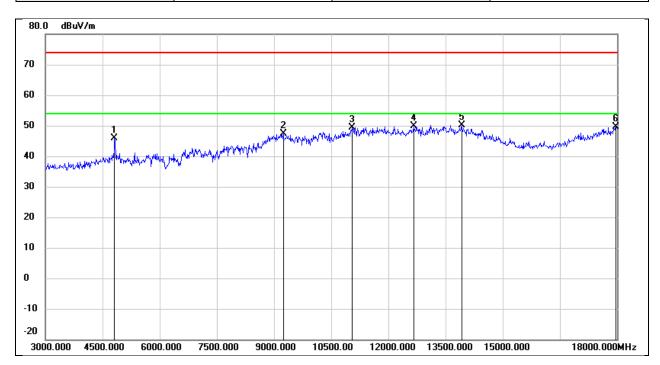


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	50.87	-0.26	50.61	74.00	-23.39	peak
2	7035.000	37.05	6.67	43.72	74.00	-30.28	peak
3	9300.000	37.54	10.61	48.15	74.00	-25.85	peak
4	11550.000	33.93	16.74	50.67	74.00	-23.33	peak
5	13440.000	29.95	20.64	50.59	74.00	-23.41	peak
6	17985.000	23.89	25.60	49.49	74.00	-24.51	peak

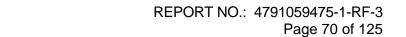




Test Mode:	802.11n HT20	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 5 V

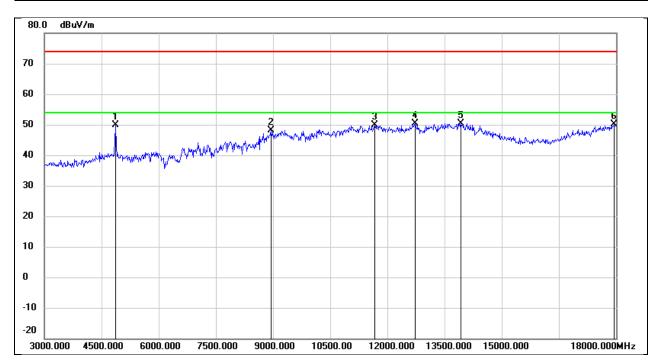


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	46.20	-0.26	45.94	74.00	-28.06	peak
2	9240.000	36.88	10.58	47.46	74.00	-26.54	peak
3	11055.000	34.46	14.96	49.42	74.00	-24.58	peak
4	12660.000	31.92	17.95	49.87	74.00	-24.13	peak
5	13920.000	28.39	21.79	50.18	74.00	-23.82	peak
6	17970.000	24.10	25.51	49.61	74.00	-24.39	peak

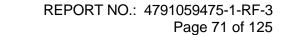




Test Mode:	802.11n HT20	Frequency(MHz):	2437
Polarity:	Horizontal	Test Voltage:	DC 5 V



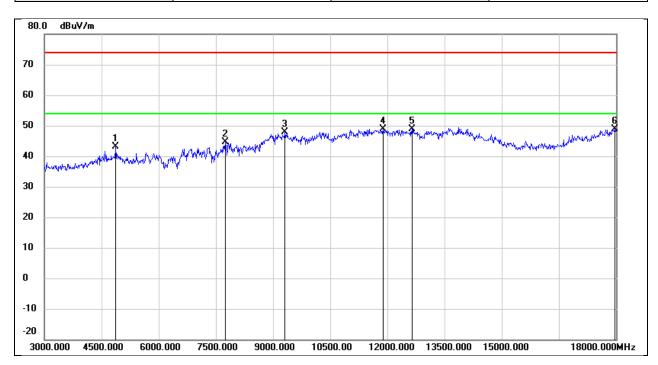
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	49.89	-0.03	49.86	74.00	-24.14	peak
2	8940.000	38.11	10.04	48.15	74.00	-25.85	peak
3	11670.000	32.72	17.07	49.79	74.00	-24.21	peak
4	12720.000	32.25	18.08	50.33	74.00	-23.67	peak
5	13920.000	28.65	21.79	50.44	74.00	-23.56	peak
6	17955.000	24.78	25.42	50.20	74.00	-23.80	peak



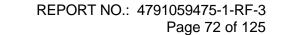


Test Mode: 802.11n HT20 Frequency(MHz): 2437

Polarity: Vertical Test Voltage: DC 5 V

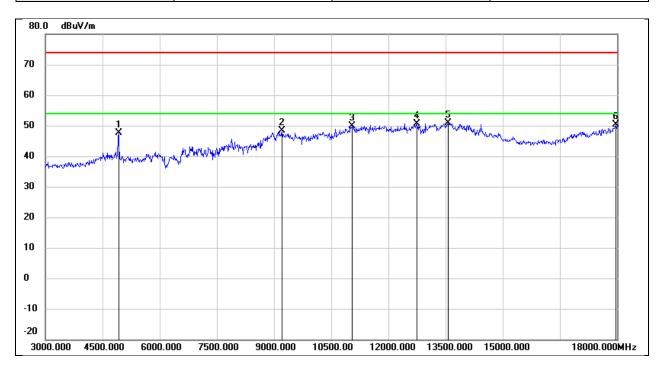


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	43.23	-0.03	43.20	74.00	-30.80	peak
2	7740.000	38.19	6.32	44.51	74.00	-29.49	peak
3	9315.000	37.16	10.61	47.77	74.00	-26.23	peak
4	11880.000	31.28	17.63	48.91	74.00	-25.09	peak
5	12645.000	30.98	17.92	48.90	74.00	-25.10	peak
6	17970.000	23.45	25.51	48.96	74.00	-25.04	peak

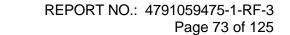




Test Mode:	802.11n HT20	Frequency(MHz):	2462
Polarity:	Horizontal	Test Voltage:	DC 5 V



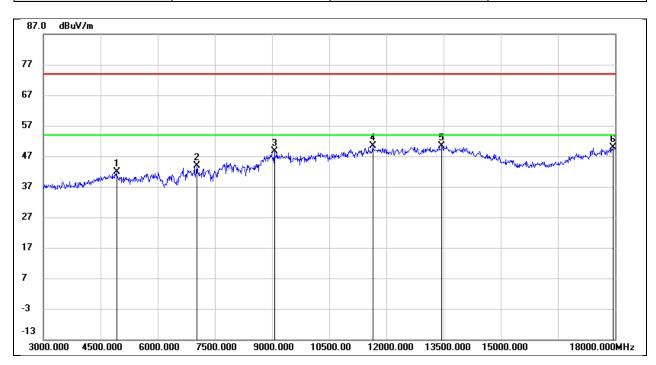
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	47.44	0.14	47.58	74.00	-26.42	peak
2	9210.000	37.71	10.57	48.28	74.00	-25.72	peak
3	11055.000	34.94	14.96	49.90	74.00	-24.10	peak
4	12750.000	32.52	18.16	50.68	74.00	-23.32	peak
5	13560.000	29.82	21.04	50.86	74.00	-23.14	peak
6	17970.000	24.79	25.51	50.30	74.00	-23.70	peak





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

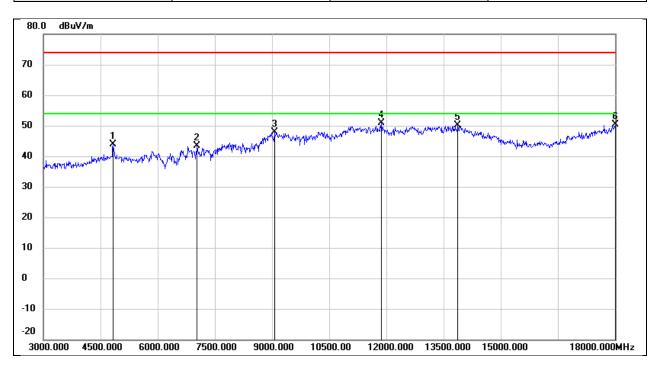
 Polarity:
 Vertical
 Test Voltage:
 DC 5 V



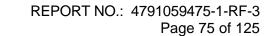
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	41.69	0.14	41.83	74.00	-32.17	peak
2	7035.000	37.10	6.67	43.77	74.00	-30.23	peak
3	9060.000	38.12	10.51	48.63	74.00	-25.37	peak
4	11640.000	33.37	16.98	50.35	74.00	-23.65	peak
5	13455.000	29.64	20.71	50.35	74.00	-23.65	peak
6	17955.000	24.45	25.42	49.87	74.00	-24.13	peak



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

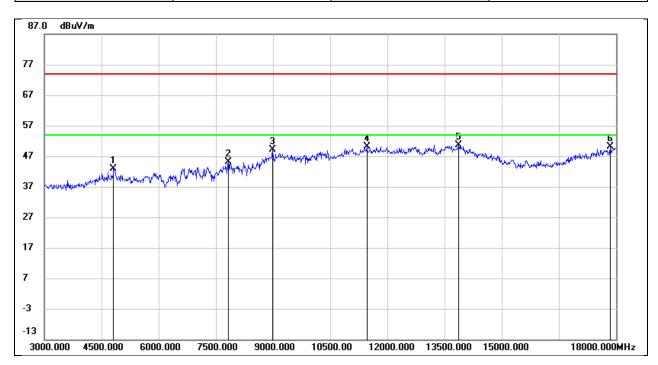


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	44.17	-0.20	43.97	74.00	-30.03	peak
2	7035.000	36.70	6.67	43.37	74.00	-30.63	peak
3	9060.000	37.31	10.51	47.82	74.00	-26.18	peak
4	11865.000	33.26	17.59	50.85	74.00	-23.15	peak
5	13875.000	28.36	21.70	50.06	74.00	-23.94	peak
6	18000.000	24.61	25.69	50.30	74.00	-23.70	peak

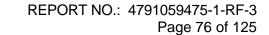




Test Mode:	802.11n HT40	Frequency(MHz):	2422
Polarity:	Vertical	Test Voltage:	DC 5 V



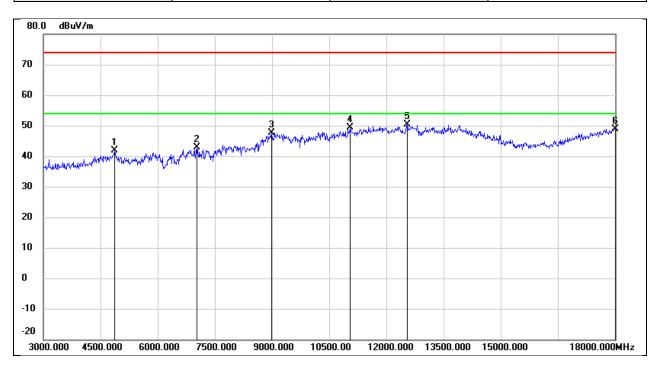
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	43.22	-0.26	42.96	74.00	-31.04	peak
2	7830.000	38.83	6.32	45.15	74.00	-28.85	peak
3	8985.000	38.64	10.37	49.01	74.00	-24.99	peak
4	11460.000	33.66	16.46	50.12	74.00	-23.88	peak
5	13860.000	28.86	21.67	50.53	74.00	-23.47	peak
6	17850.000	25.21	24.81	50.02	74.00	-23.98	peak





Test Mode: 802.11n HT40 Frequency(MHz): 2437

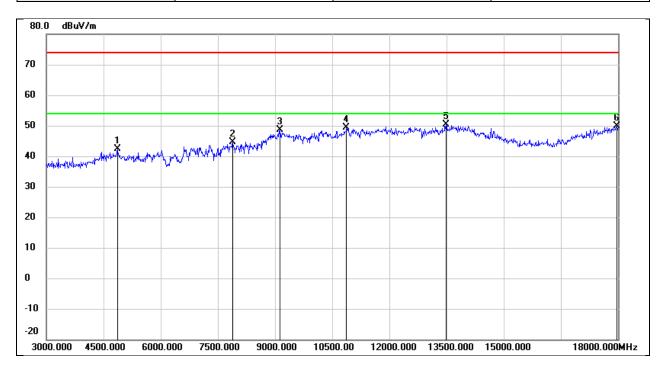
Polarity: Horizontal Test Voltage: DC 5 V



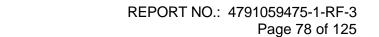
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	42.08	-0.09	41.99	74.00	-32.01	peak
2	7035.000	36.09	6.67	42.76	74.00	-31.24	peak
3	8985.000	37.23	10.37	47.60	74.00	-26.40	peak
4	11055.000	34.39	14.96	49.35	74.00	-24.65	peak
5	12555.000	32.58	17.72	50.30	74.00	-23.70	peak
6	18000.000	23.24	25.69	48.93	74.00	-25.07	peak



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

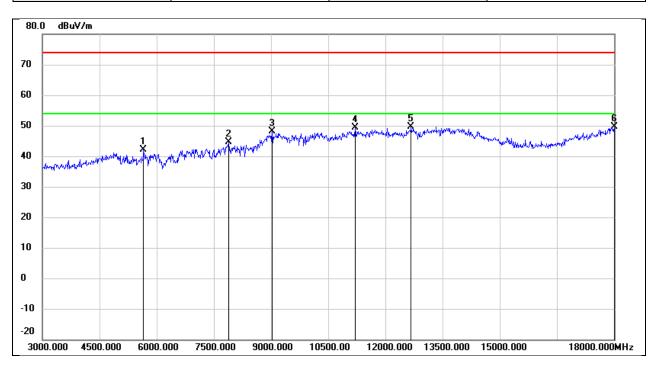


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	42.42	-0.09	42.33	74.00	-31.67	peak
2	7890.000	38.23	6.31	44.54	74.00	-29.46	peak
3	9135.000	38.19	10.55	48.74	74.00	-25.26	peak
4	10875.000	35.08	14.32	49.40	74.00	-24.60	peak
5	13485.000	29.55	20.84	50.39	74.00	-23.61	peak
6	17970.000	24.34	25.51	49.85	74.00	-24.15	peak





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

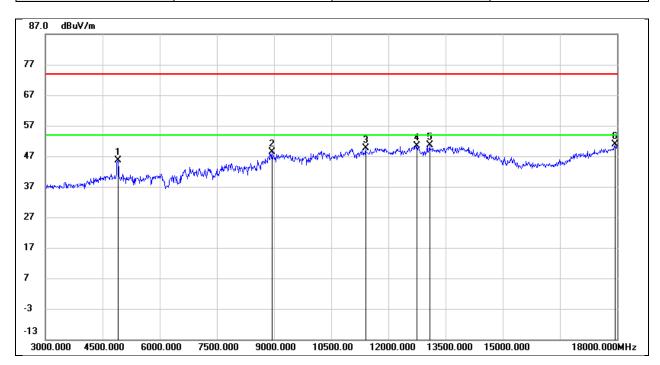


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	40.74	1.29	42.03	74.00	-31.97	peak
2	7890.000	38.23	6.31	44.54	74.00	-29.46	peak
3	9030.000	37.57	10.49	48.06	74.00	-25.94	peak
4	11205.000	33.92	15.52	49.44	74.00	-24.56	peak
5	12675.000	31.63	17.99	49.62	74.00	-24.38	peak
6	18000.000	23.85	25.69	49.54	74.00	-24.46	peak





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

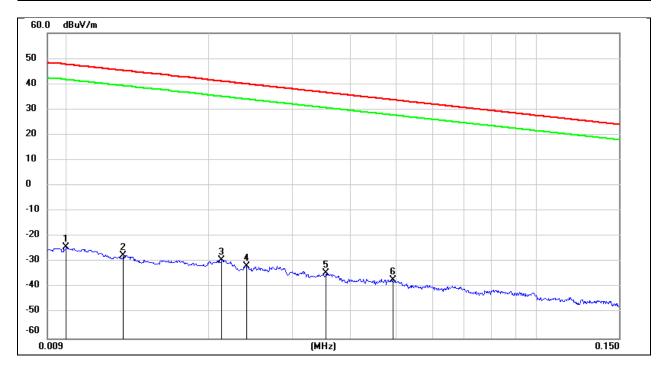


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	45.50	0.09	45.59	74.00	-28.41	peak
2	8940.000	38.36	10.04	48.40	74.00	-25.60	peak
3	11400.000	33.37	16.23	49.60	74.00	-24.40	peak
4	12750.000	32.33	18.16	50.49	74.00	-23.51	peak
5	13080.000	31.68	19.07	50.75	74.00	-23.25	peak
6	17940.000	25.50	25.34	50.84	74.00	-23.16	peak

Page 80 of 125

8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

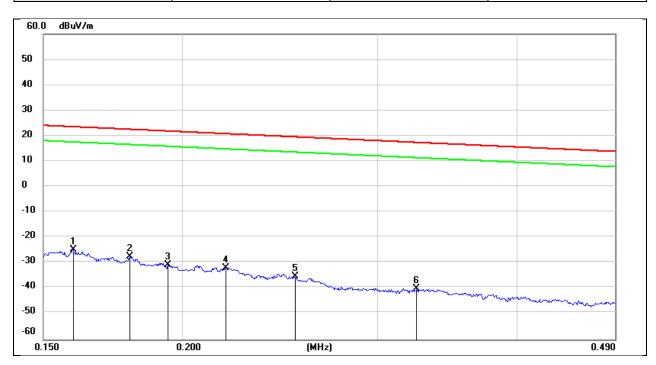
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 5V



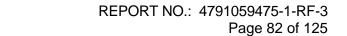
No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.01	77.22	-101.4	-24.18	47.6	-75.68	-3.9	-71.78	peak
2	0.0131	73.97	-101.38	-27.41	45.25	-78.91	-6.25	-72.66	peak
3	0.0212	72.04	-101.35	-29.31	41.07	-80.81	-10.43	-70.38	peak
4	0.024	69.82	-101.36	-31.54	40	-83.04	-11.5	-71.54	peak
5	0.0354	66.97	-101.41	-34.44	36.62	-85.94	-14.88	-71.06	peak
6	0.0492	64.55	-101.47	-36.92	33.76	-88.42	-17.74	-70.68	peak



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

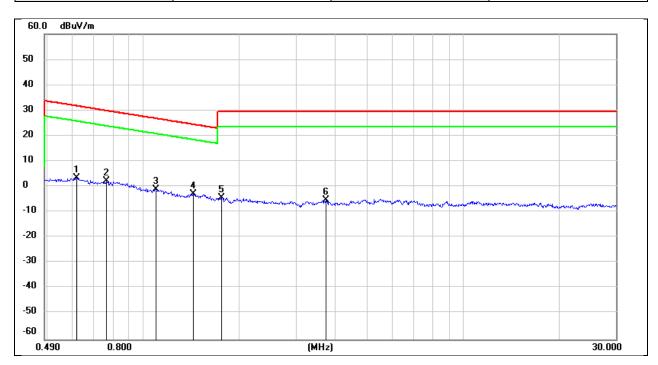


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1595	76.86	-101.65	-24.79	23.55	-76.29	-27.95	-48.34	peak
2	0.1794	74.27	-101.68	-27.41	22.53	-78.91	-28.97	-49.94	peak
3	0.1942	70.81	-101.7	-30.89	21.84	-82.39	-29.66	-52.73	peak
4	0.219	69.77	-101.75	-31.98	20.79	-83.48	-30.71	-52.77	peak
5	0.253	66.64	-101.8	-35.16	19.54	-86.66	-31.96	-54.7	peak
6	0.3251	61.71	-101.88	-40.17	17.36	-91.67	-34.14	-57.53	peak





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

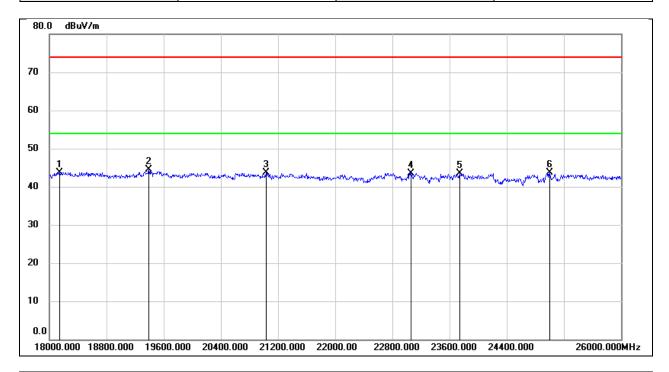


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.6169	65.55	-62.08	3.47	31.8	-48.03	-19.7	-28.33	peak
2	0.7641	64.42	-62.12	2.3	29.94	-49.2	-21.56	-27.64	peak
3	1.0927	61.28	-62.22	-0.94	26.84	-52.44	-24.66	-27.78	peak
4	1.4274	59.38	-62.08	-2.7	24.51	-54.2	-26.99	-27.21	peak
5	1.758	57.58	-61.93	-4.35	29.54	-55.85	-21.96	-33.89	peak
6	3.71	56.2	-61.41	-5.21	29.54	-56.71	-21.96	-34.75	peak

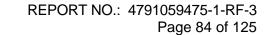
Page 83 of 125

8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

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



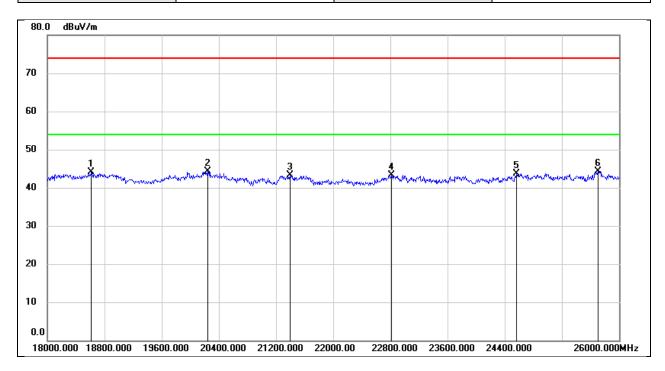
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18144.000	49.27	-5.48	43.79	74.00	-30.21	peak
2	19392.000	50.12	-5.57	44.55	74.00	-29.45	peak
3	21032.000	48.65	-4.87	43.78	74.00	-30.22	peak
4	23064.000	46.99	-3.42	43.57	74.00	-30.43	peak
5	23744.000	46.65	-3.20	43.45	74.00	-30.55	peak
6	25000.000	45.86	-2.10	43.76	74.00	-30.24	peak





Test Mode: 802.11b Frequency(MHz): 2412

Polarity: Vertical Test Voltage: DC 5V

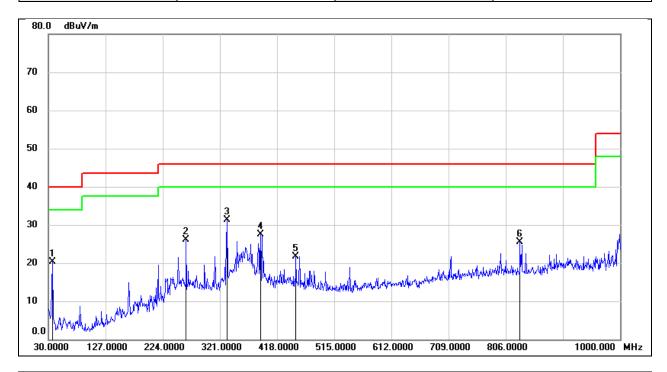


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18616.000	49.39	-5.34	44.05	74.00	-29.95	peak
2	20240.000	49.82	-5.61	44.21	74.00	-29.79	peak
3	21400.000	48.04	-4.72	43.32	74.00	-30.68	peak
4	22816.000	46.93	-3.63	43.30	74.00	-30.70	peak
5	24568.000	46.10	-2.33	43.77	74.00	-30.23	peak
6	25704.000	45.04	-0.83	44.21	74.00	-29.79	peak

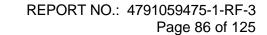
Page 85 of 125

8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC5V

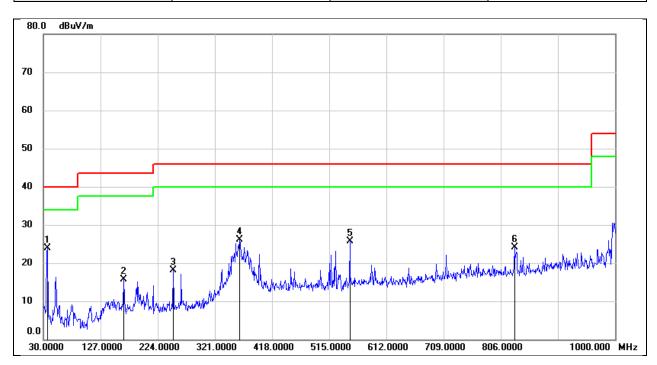


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	36.7900	39.14	-18.83	20.31	40.00	-19.69	QP
2	263.7700	43.46	-17.39	26.07	46.00	-19.93	QP
3	333.6099	44.49	-13.25	31.24	46.00	-14.76	QP
4	389.8700	40.01	-12.46	27.55	46.00	-18.45	QP
5	450.0100	33.18	-11.38	21.80	46.00	-24.20	QP
6	830.2500	31.58	-6.12	25.46	46.00	-20.54	QP





Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	36.7900	42.70	-18.83	23.87	40.00	-16.13	QP
2	166.7700	32.29	-16.55	15.74	43.50	-27.76	QP
3	250.1900	36.52	-18.35	18.17	46.00	-27.83	QP
4	362.7100	38.65	-12.45	26.20	46.00	-19.80	QP
5	549.9200	36.07	-10.27	25.80	46.00	-20.20	QP
6	829.2800	30.13	-6.12	24.01	46.00	-21.99	QP



Page 87 of 125

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

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

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

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

DESCRIPTION

Pass



10. AC POWER LINE CONDUCTED EMISSION

LIMITS

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

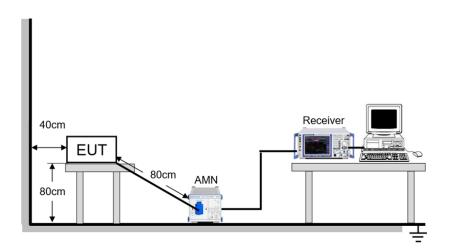
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	24.5°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

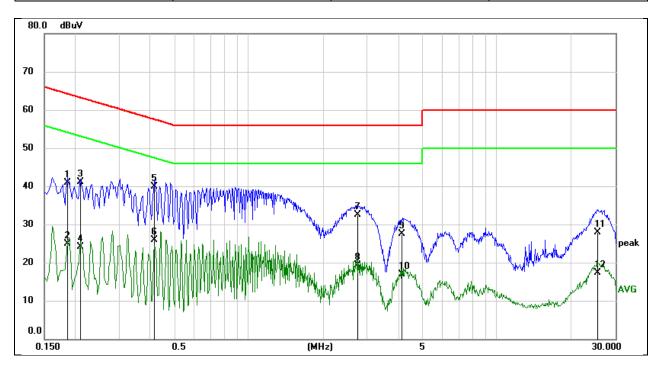
Test Date	December 5, 2023	Test By	Kebo Zhang
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REPORT NO.: 4791059475-1-RF-3 Page 89 of 125

TEST RESULTS

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1861	31.38	9.59	40.97	64.21	-23.24	QP
2	0.1861	15.33	9.59	24.92	54.21	-29.29	AVG
3	0.2097	31.53	9.59	41.12	63.22	-22.10	QP
4	0.2097	14.58	9.59	24.17	53.22	-29.05	AVG
5	0.4187	30.34	9.60	39.94	57.47	-17.53	QP
6	0.4187	16.34	9.60	25.94	47.47	-21.53	AVG
7	2.7573	22.92	9.66	32.58	56.00	-23.42	QP
8	2.7573	9.71	9.66	19.37	46.00	-26.63	AVG
9	4.1373	17.75	9.70	27.45	56.00	-28.55	QP
10	4.1373	7.16	9.70	16.86	46.00	-29.14	AVG
11	25.4315	18.24	9.74	27.98	60.00	-32.02	QP
12	25.4315	7.53	9.74	17.27	50.00	-32.73	AVG

Note:

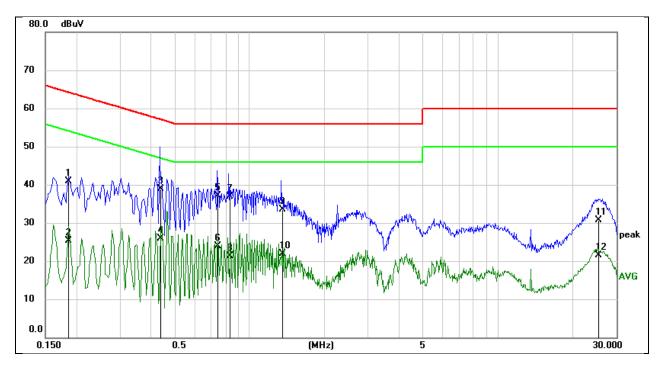
- 1. Result = Reading + Correct Factor.
- 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
- 4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

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



Page 90 of 125

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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1859	31.29	9.56	40.85	64.22	-23.37	QP
2	0.1859	15.66	9.56	25.22	54.22	-29.00	AVG
3	0.4383	29.30	9.52	38.82	57.09	-18.27	QP
4	0.4383	16.30	9.52	25.82	47.09	-21.27	AVG
5	0.7480	27.57	9.50	37.07	56.00	-18.93	QP
6	0.7480	14.48	9.50	23.98	46.00	-22.02	AVG
7	0.8345	27.36	9.50	36.86	56.00	-19.14	QP
8	0.8345	11.83	9.50	21.33	46.00	-24.67	AVG
9	1.3504	23.99	9.54	33.53	56.00	-22.47	QP
10	1.3504	12.28	9.54	21.82	46.00	-24.18	AVG
11	25.5620	21.09	9.69	30.78	60.00	-29.22	QP
12	25.5620	11.79	9.69	21.48	50.00	-28.52	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.



Page 91 of 125

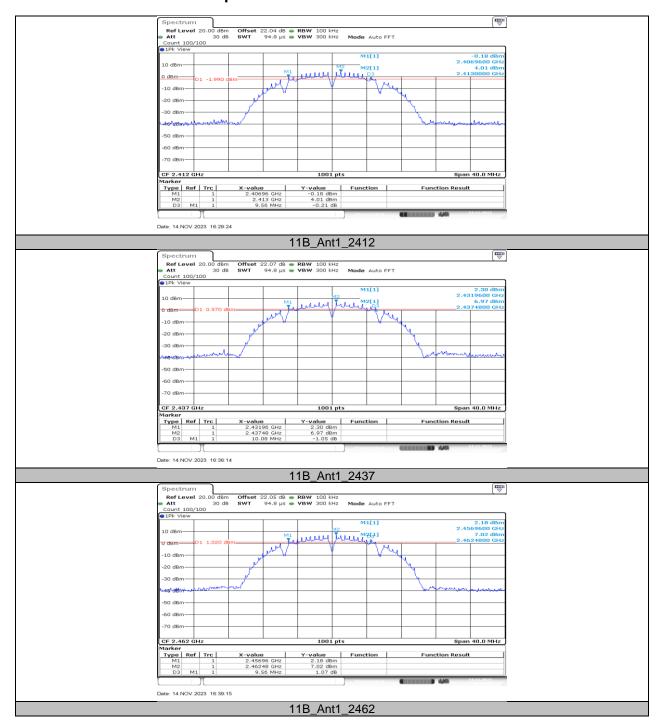
11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH 11.1.1. Test Result

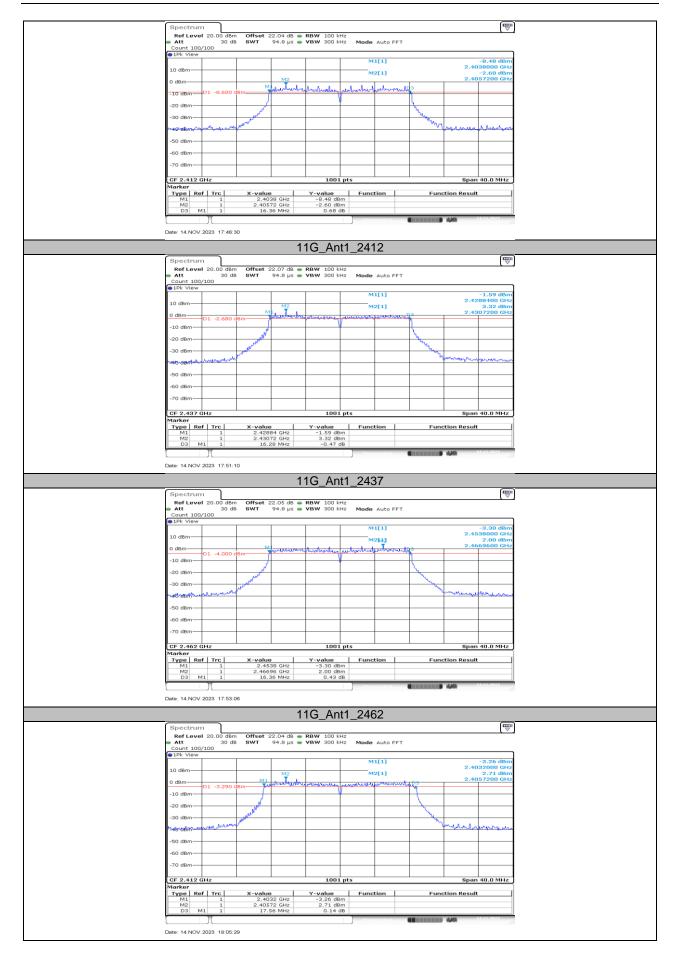
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	9.56	2406.96	2416.52	≥0.5	PASS
11B	Ant1	2437	10.08	2431.96	2442.04	≥0.5	PASS
		2462	9.56	2456.96	2466.52	≥0.5	PASS
		2412	16.36	2403.80	2420.16	≥0.5	PASS
11G	Ant1	2437	16.28	2428.84	2445.12	≥0.5	PASS
		2462	16.36	2453.80	2470.16	≥0.5	PASS
		2412	17.56	2403.20	2420.76	≥0.5	PASS
11N20SISO	Ant1	2437	17.64	2428.16	2445.80	≥0.5	PASS
		2462	16.92	2453.60	2470.52	≥0.5	PASS
11N40SISO		2422	35.84	2404.08	2439.92	≥0.5	PASS
	Ant1	2437	35.52	2419.08	2454.60	≥0.5	PASS
		2452	35.52	2434.40	2469.92	≥0.5	PASS



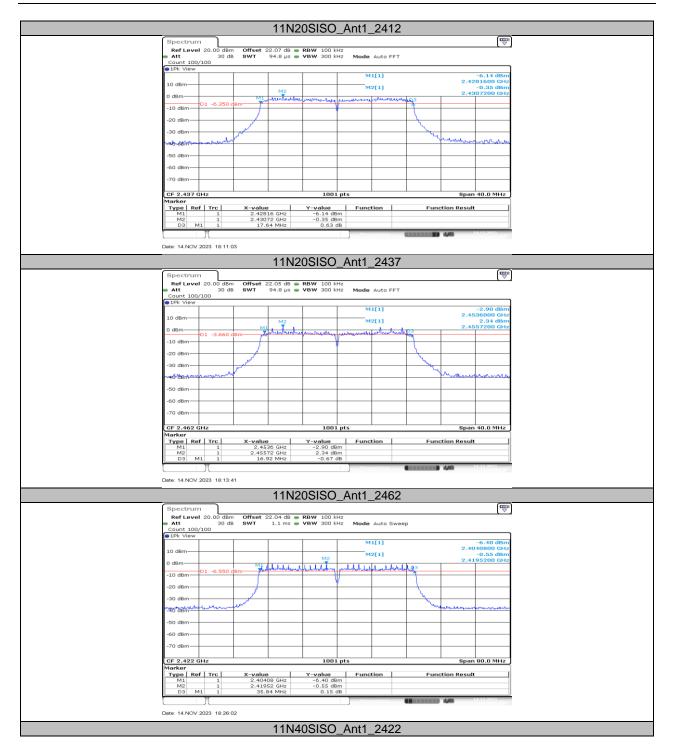
11.1.2. Test Graphs



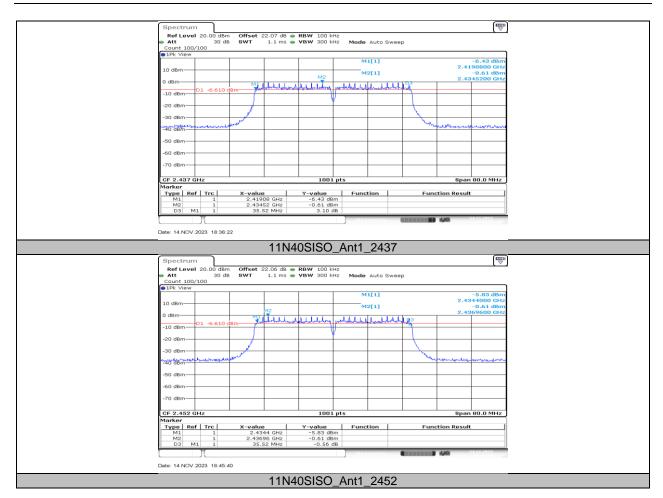














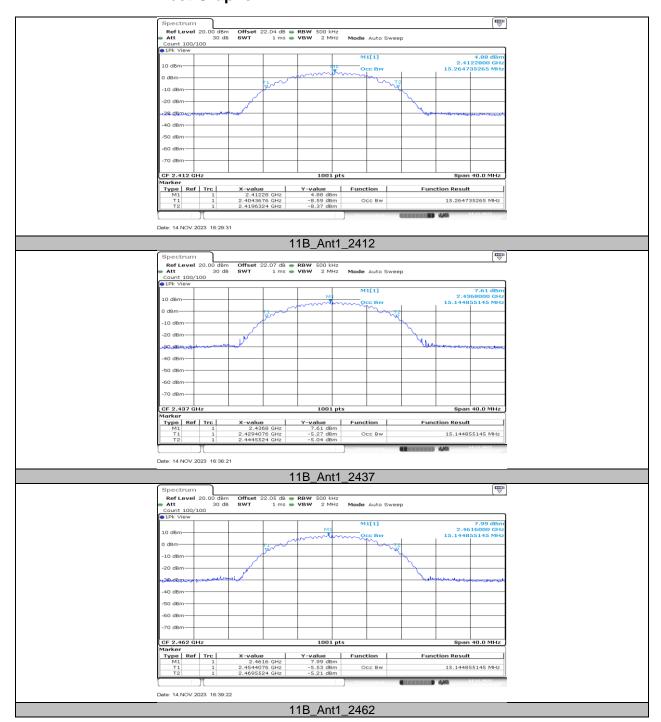
Page 96 of 125

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

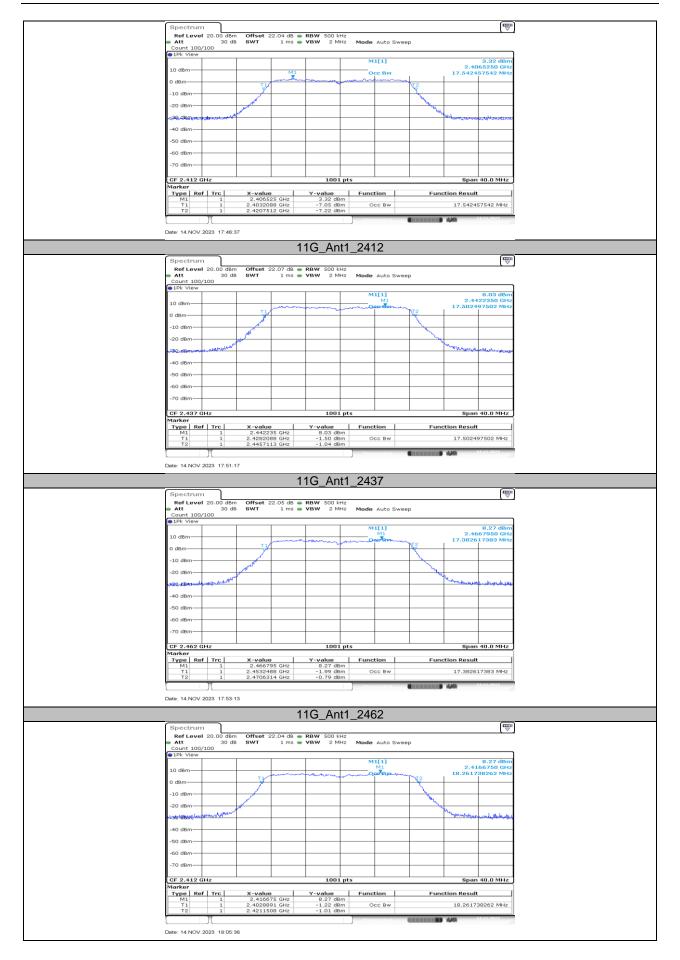
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2412	15.265	2404.3676	2419.6324	PASS
11B	Ant1	2437	15.145	2429.4076	2444.5524	PASS
		2462	15.145	2454.4076	2469.5524	PASS
	Ant1	2412	17.542	2403.2088	2420.7512	PASS
11G		2437	17.502	2428.2088	2445.7113	PASS
		2462	17.383	2453.2488	2470.6314	PASS
		2412	18.262	2402.8891	2421.1508	PASS
11N20SISO	Ant1	2437	18.262	2427.8492	2446.1109	PASS
		2462	18.302	2452.8492	2471.1508	PASS
11N40SISO		2422	36.843	2403.6983	2440.5415	PASS
	Ant1	2437	36.683	2418.6983	2455.3816	PASS
		2452	36.683	2433.6983	2470.3816	PASS



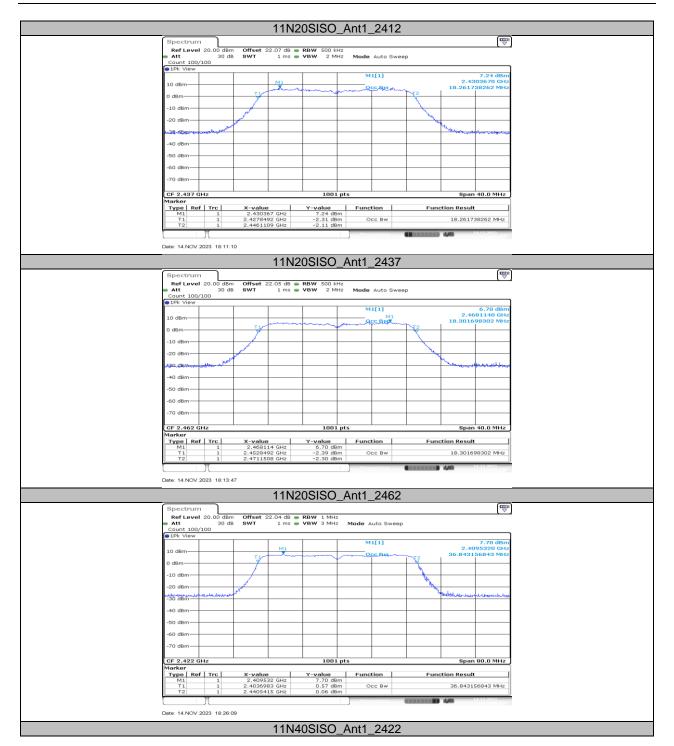
11.2.2. Test Graphs



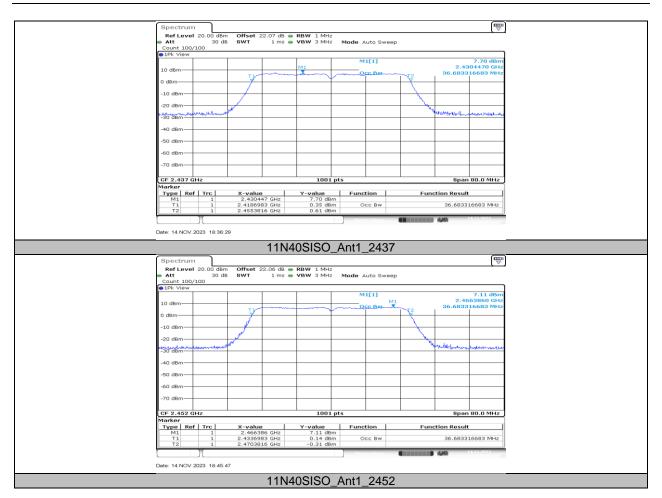












Page 101 of 125

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

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
		2412	17.28	≤30.00	PASS
11B	Ant1	2437	16.83	≤30.00	PASS
		2462	16.84	≤30.00	PASS
	Ant1	2412	15.33	≤30.00	PASS
11G		2437	15.16	≤30.00	PASS
		2462	14.94	≤30.00	PASS
		2412	14.11	≤30.00	PASS
11N20SISO	Ant1	2437	13.97	≤30.00	PASS
		2462	14.02	≤30.00	PASS
		2422	13.99	≤30.00	PASS
11N40SISO	Ant1	2437	14.18	≤30.00	PASS
		2452	14.60	≤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.



Page 102 of 125

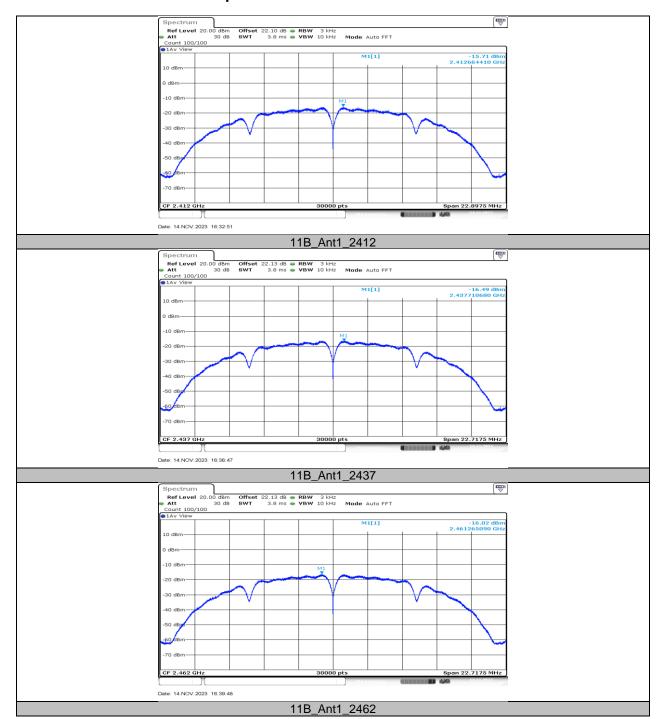
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY 11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
		2412	-15.71	≤8.00	PASS
11B	Ant1	2437	-16.49	≤8.00	PASS
		2462	-16.02	≤8.00	PASS
	Ant1	2412	-16.77	≤8.00	PASS
11G		2437	-17.02	≤8.00	PASS
		2462	-17.02	≤8.00	PASS
		2412	-18.88	≤8.00	PASS
11N20SISO	Ant1	2437	-18.61	≤8.00	PASS
		2462	-18.37	≤8.00	PASS
11N40SISO		2422	-20.68	≤8.00	PASS
	Ant1	2437	-19.78	≤8.00	PASS
		2452	-20,27	≤8.00	PASS

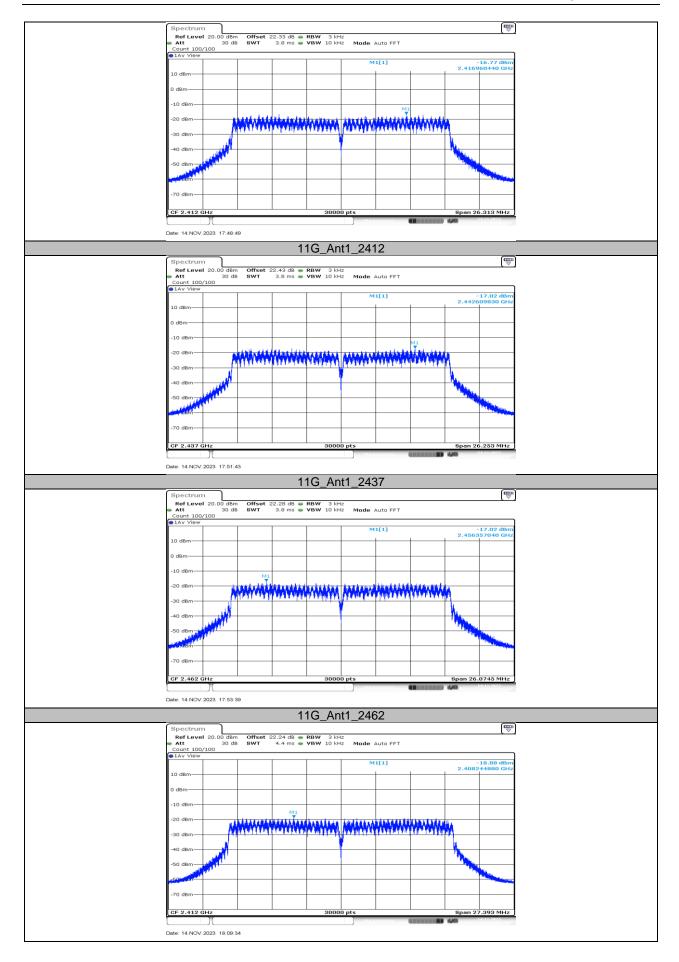
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.



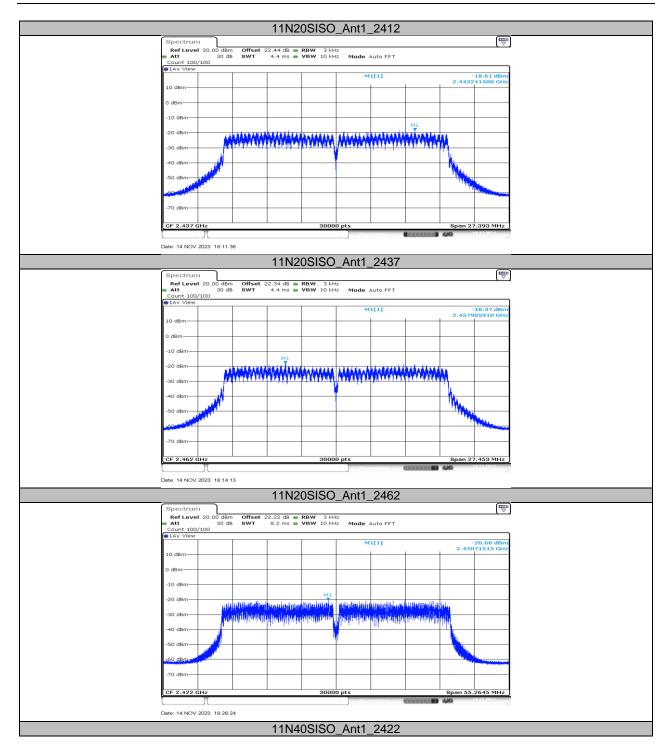
11.4.2. Test Graphs



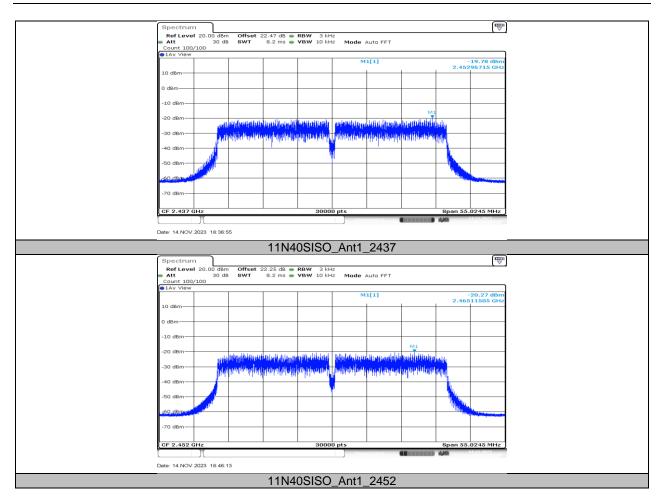














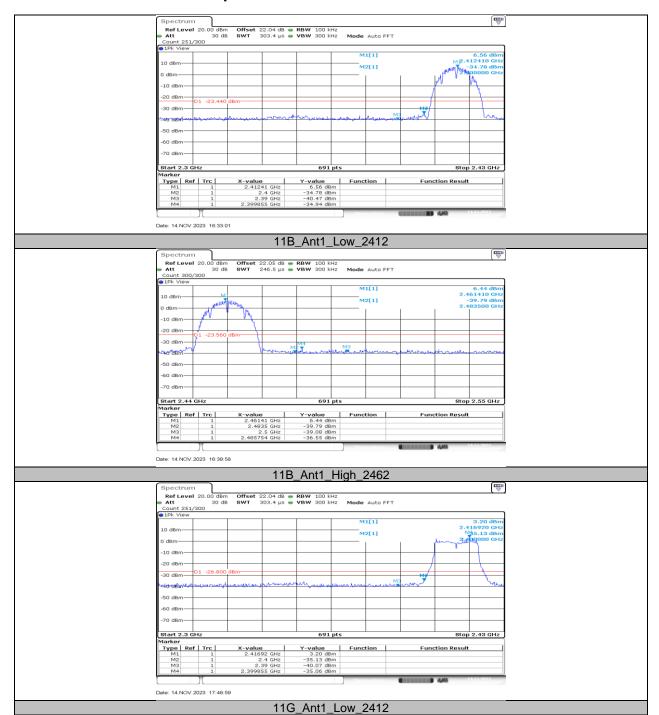
Page 107 of 125

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

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.56	-34.94	≤-23.44	PASS
		High	2462	6.44	-36.55	≤-23.56	PASS
11G	Ant1	Low	2412	3.20	-35.06	≤-26.8	PASS
		High	2462	2.89	-35.92	≤-27.11	PASS
11N20SISO	Ant1	Low	2412	1.16	-35.09	≤-28.84	PASS
		High	2462	1.72	-36.7	≤-28.28	PASS
11N40SISO	Ant1	Low	2422	-0.71	-35.26	≤-30.71	PASS
		High	2452	-0.90	-36.38	≤-30.9	PASS



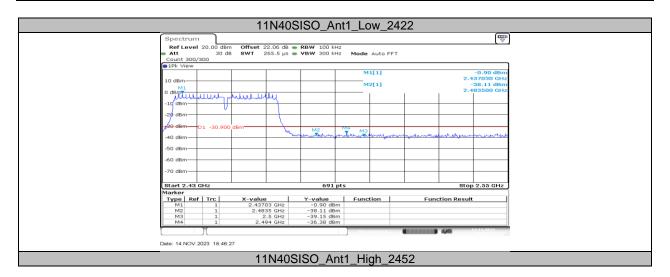
11.5.2. Test Graphs













REPORT NO.: 4791059475-1-RF-3

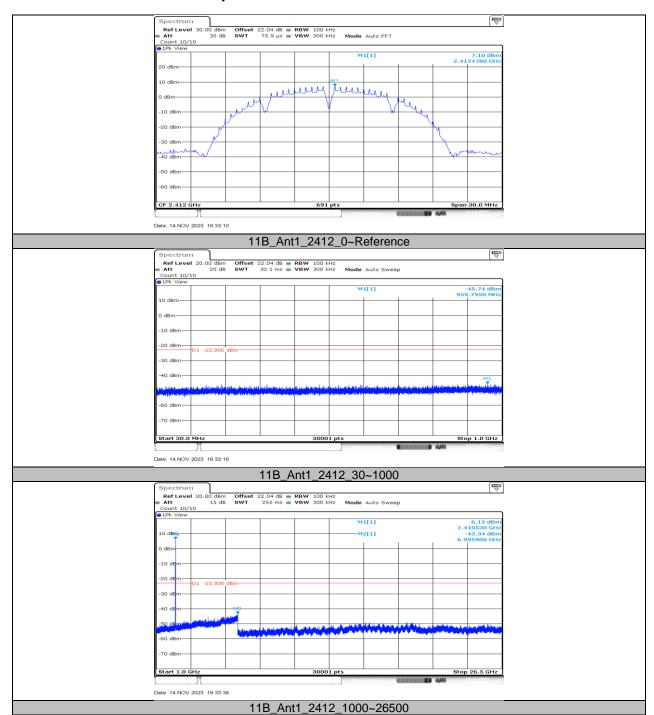
Page 111 of 125

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

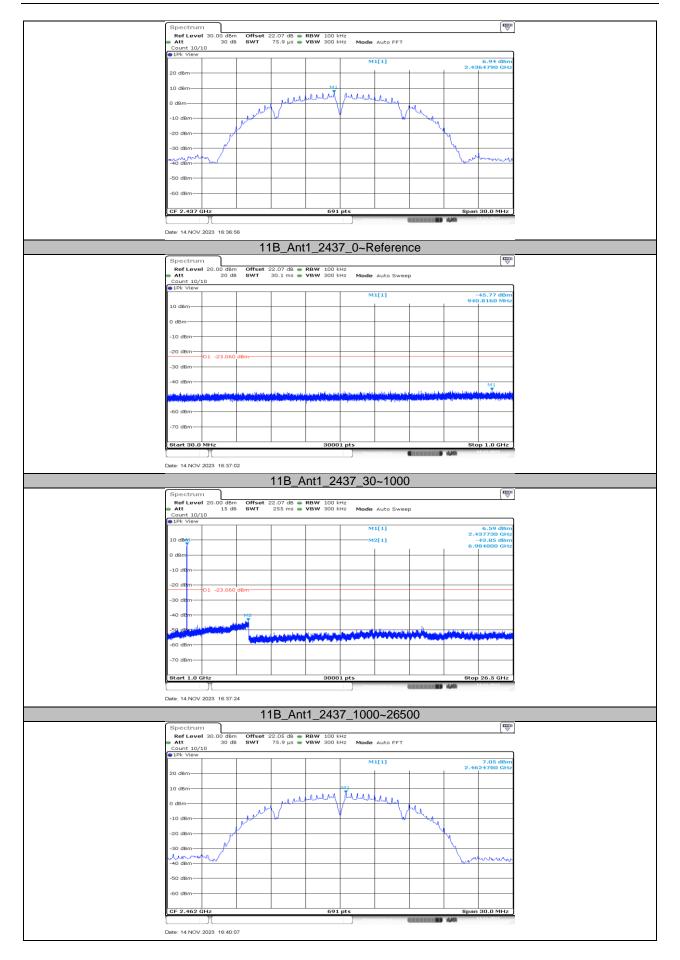
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.10		PASS
			30~1000	-45.74	≤-22.9	PASS
			1000~26500	-43.34	≤-22.9	PASS
		2437	Reference	6.94		PASS
			30~1000	-45.77	≤-23.06	PASS
			1000~26500	-43.85	≤-23.06	PASS
		2462	Reference	7.05		PASS
			30~1000	-45.55	≤-22.95	PASS
			1000~26500	-43.26	≤-22.95	PASS
		2412	Reference	3.36		PASS
			30~1000	-45.91	≤-26.64	PASS
			1000~26500	-43.78	≤-26.64	PASS
		2437	Reference	2.37		PASS
11G	Ant1		30~1000	-45.09	≤-27.63	PASS
			1000~26500	-43.99	≤-27.63	PASS
		2462	Reference	3.01		PASS
			30~1000	-45.33	≤-26.99	PASS
			1000~26500	-43.22	≤-26.99	PASS
	Ant1	2412	Reference	2.13		PASS
			30~1000	-45.78	≤-27.87	PASS
			1000~26500	-43.22	≤-27.87	PASS
		2437	Reference	2.12		PASS
11N20SISO			30~1000	-45.27	≤-27.88	PASS
			1000~26500	-44.24	≤-27.88	PASS
		2462	Reference	1.97		PASS
			30~1000	-45.56	≤-28.03	PASS
			1000~26500	-43.06	≤-28.03	PASS
11N40SISO	Ant1	2422	Reference	-0.63		PASS
			30~1000	-44.85	≤-30.63	PASS
			1000~26500	-43.34	≤-30.63	PASS
		2437	Reference	-0.75		PASS
			30~1000	-44.3	≤-30.75	PASS
			1000~26500	-43.56	≤-30.75	PASS
		2452	Reference	-0.72		PASS
			30~1000	-45.75	≤-30.72	PASS
			1000~26500	-43.44	≤-30.72	PASS



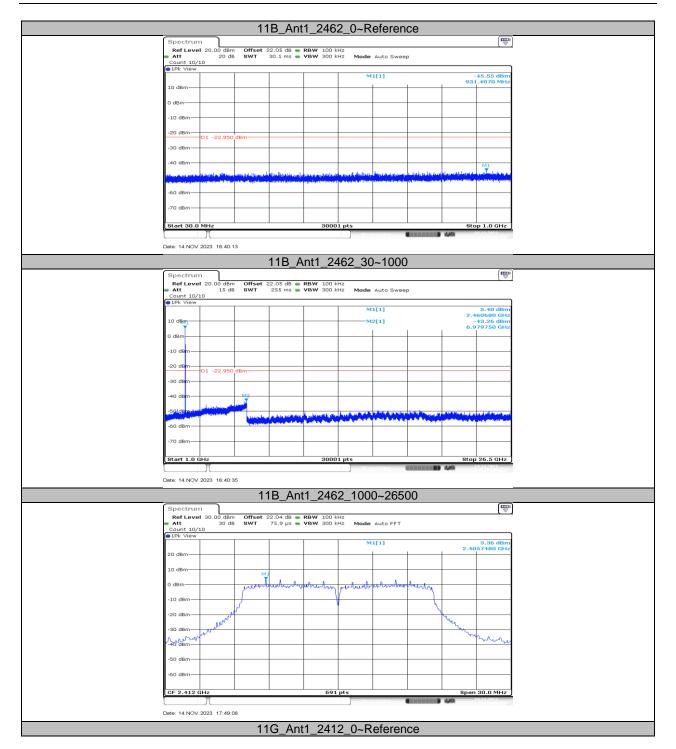
11.6.2. Test Graphs



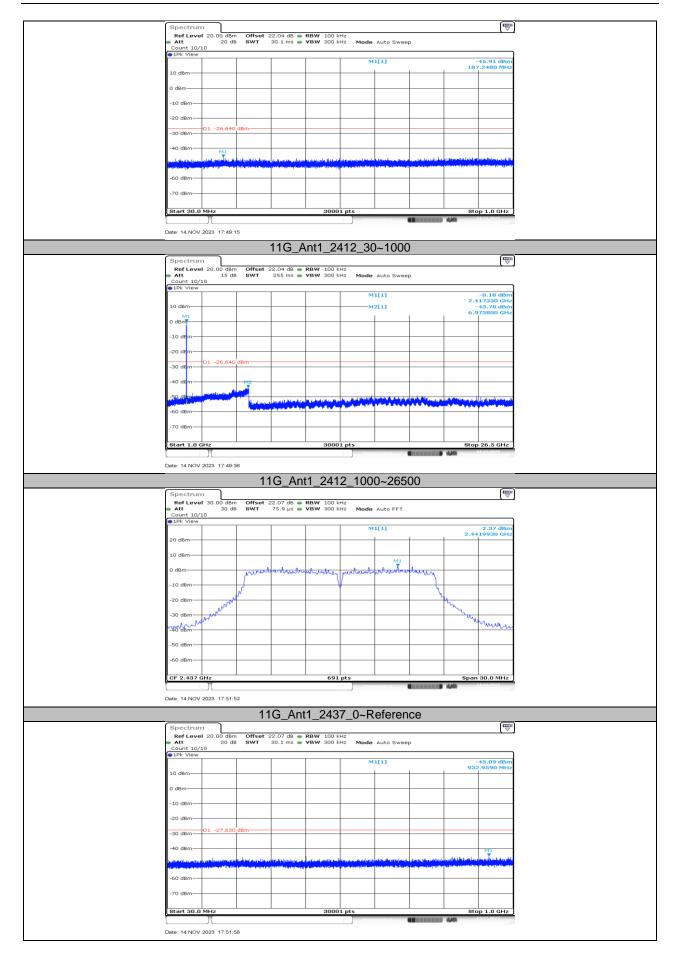




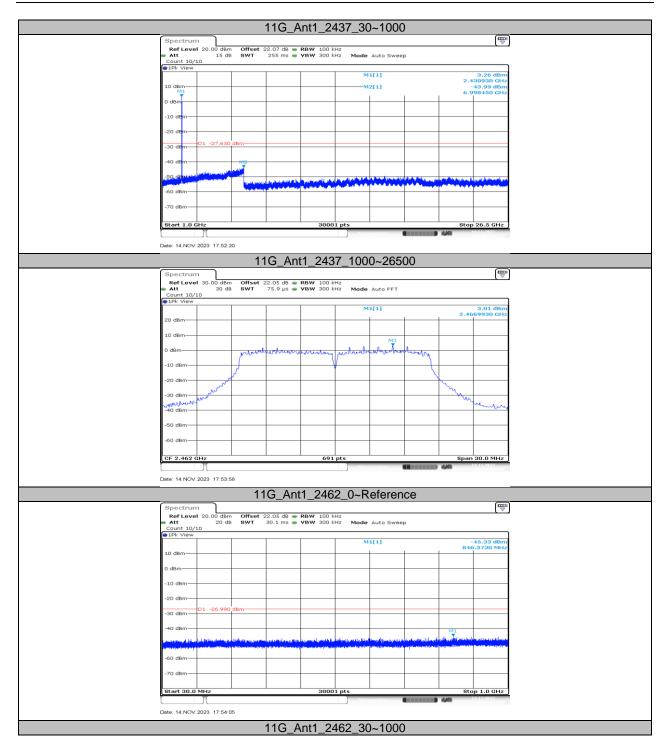




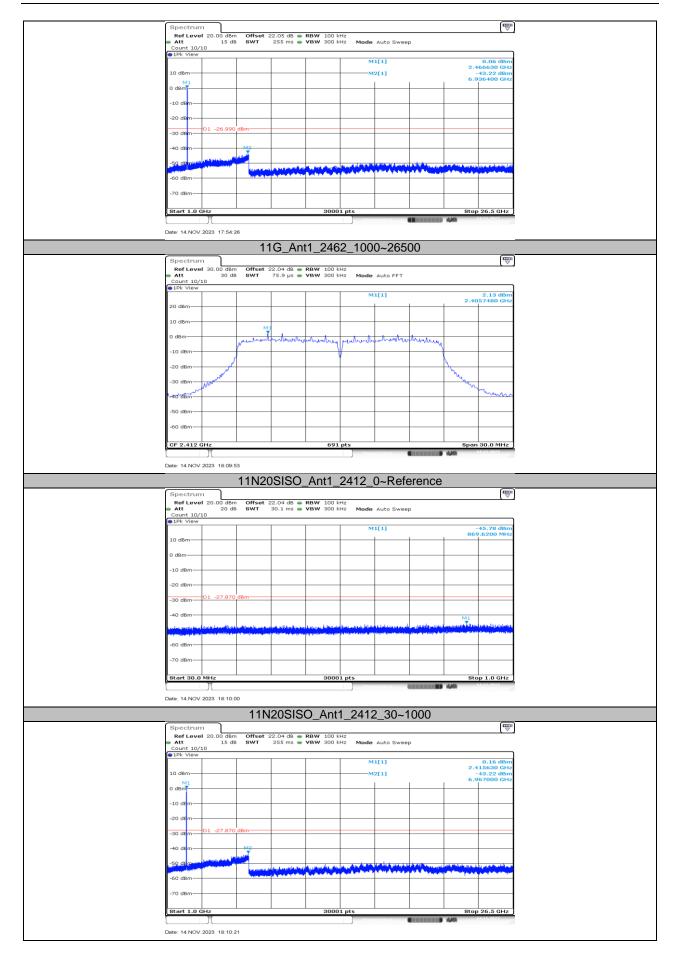




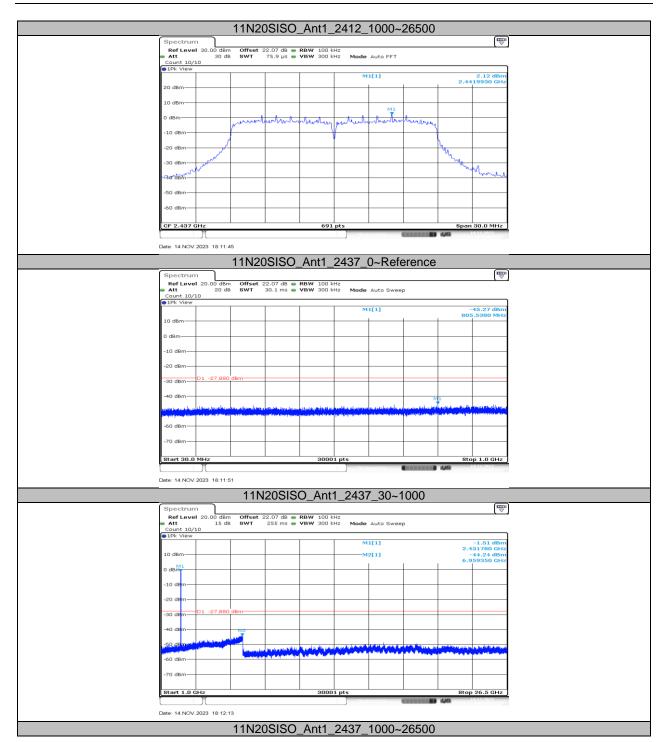




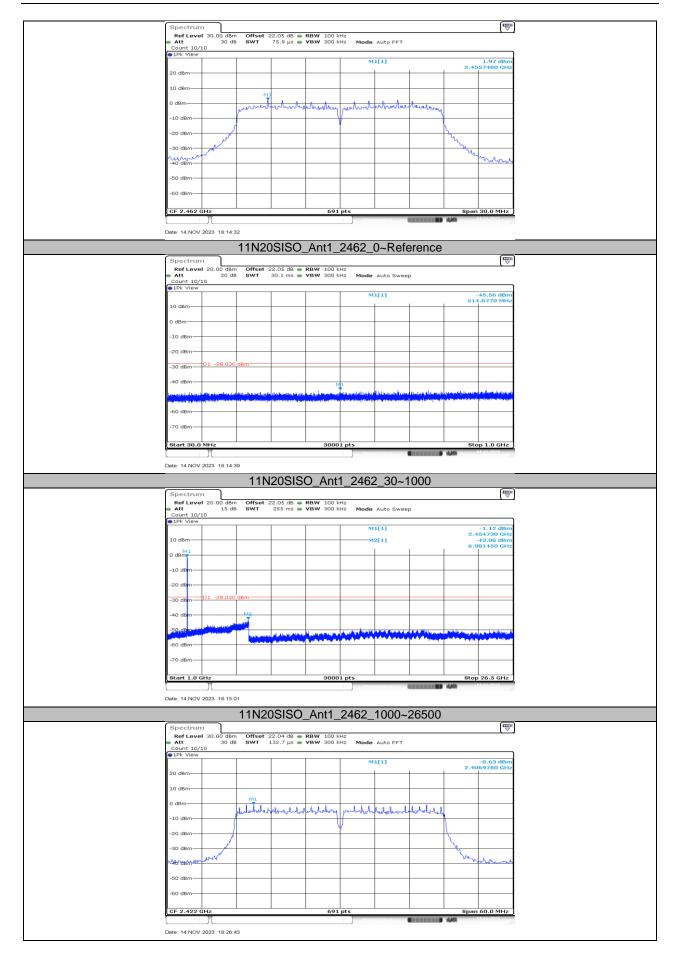




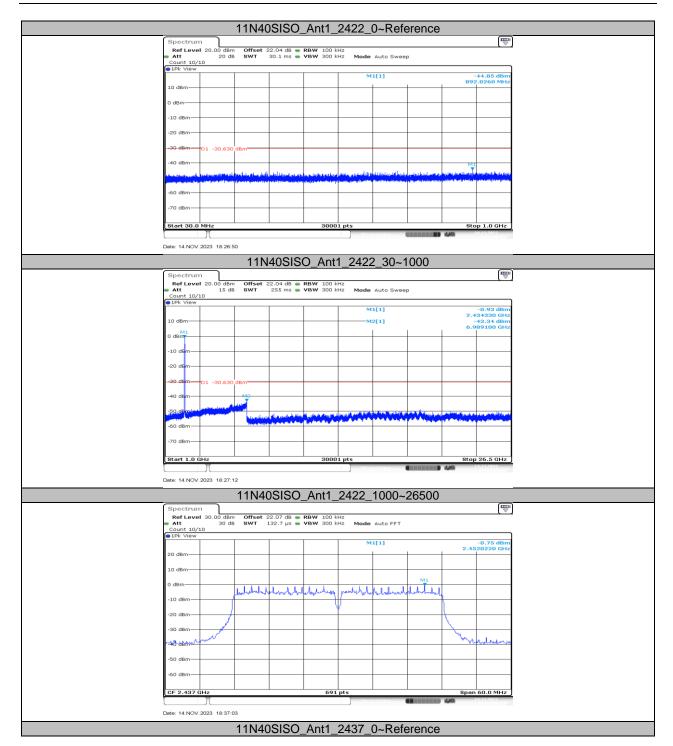




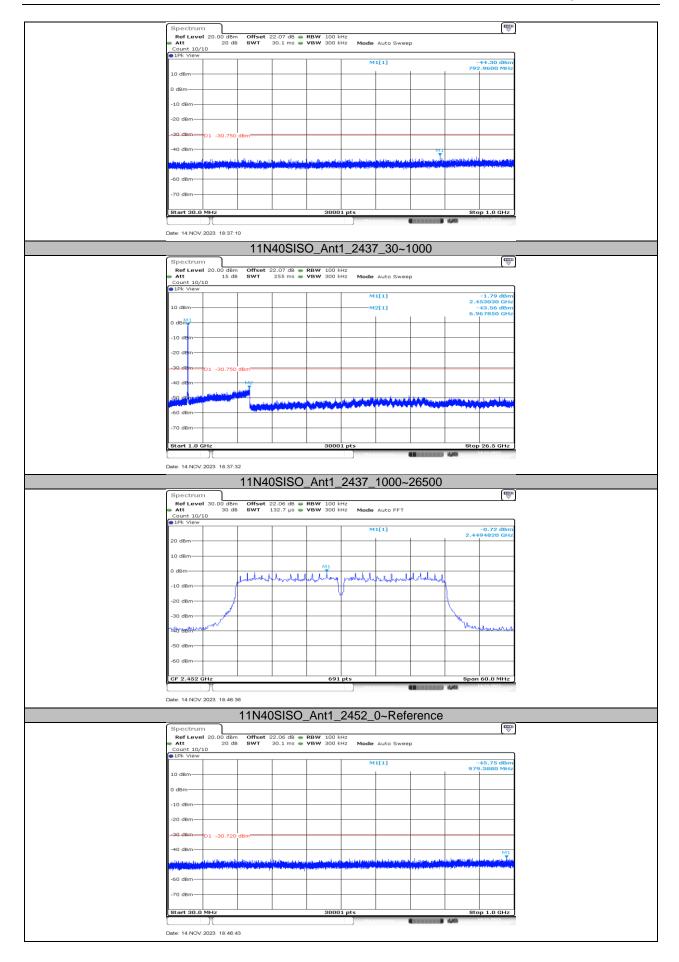




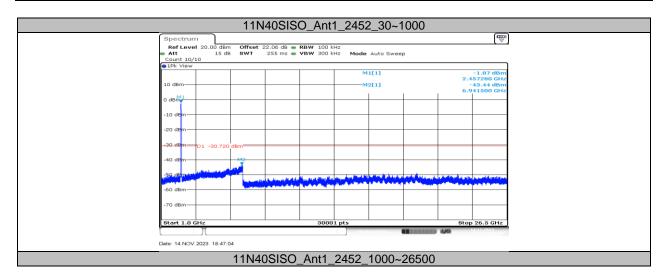














REPORT NO.: 4791059475-1-RF-3

Page 123 of 125

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	12.40	12.57	0.9865	98.65	0.06	0.08	0.01
11G	2.06	2.20	0.9364	93.64	0.29	0.49	1
11N20SISO	1.92	2.01	0.9552	95.52	0.20	0.52	1
11N40SISO	0.95	0.99	0.9596	95.96	0.18	1.05	2

Note:

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

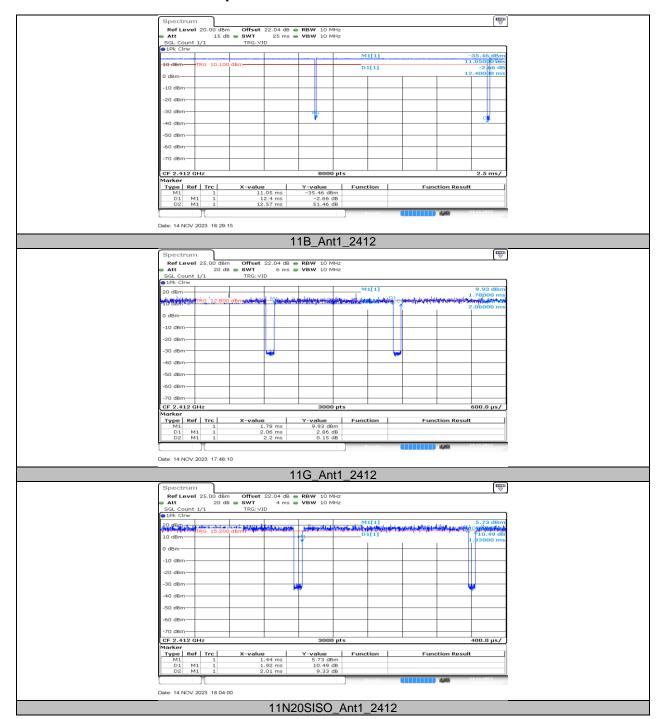
Where: x is Duty Cycle (Linear)

Where: T is On Time

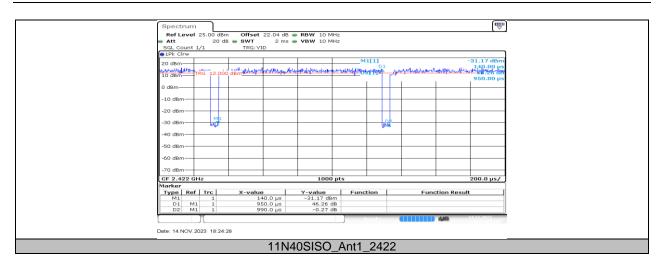
If that calculated VBW is not available on the analyzer then the next higher value should be used.



11.7.2. Test Graphs







END OF REPORT