



CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2

TEST REPORT

For

BE11000 Whole Home Mesh Wi-Fi 7 System

MODEL NUMBER: Deco BE65

REPORT NUMBER: 4790733861-1-RF-1

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Prepared for

TP-Link Corporation Limited

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Revision History

Rev.	Issue Date	Revisions	Revised By	
V0	March 10, 2023	Initial Issue	Kebo Zhang	
V1	March 21, 2023	Correct the Antenna Type to match the Antenna Report	Kebo Zhang	

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
ANSI C63 10-2013 Clause		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 2> when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	TP-Link Corporation Limited
Address:	Room 901, 9/F., New East Ocean Centre, 9 Science Museum
	Road, Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer Information

Company Name:	TP-Link Corporation Limited
Address:	Room 901, 9/F., New East Ocean Centre, 9 Science Museum
	Road, Tsim Sha Tsui, Kowloon, Hong Kong

EUT Information

EUT Name:	BE11000 Whole Home Mesh Wi-Fi 7 System
Model:	Deco BE65
Brand:	tp-link
Sample Received Date:	February 9, 2023
Sample Status:	Normal
Sample ID:	5776030
Date of Tested:	February 9, 2023 to March 10, 2023

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	Pass			
ISED RSS-247 ISSUE 2	Fass			

Prepared By:

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Kebo Zhang Senior Project Engineer

Approved By:

Stephen Guo Operations Manager

Senior Project Engineer

Denny Huang

Brance

Checked By:

Donny



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2, 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, CFR 47 FCC Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 2 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-20019, R-20004, C-20012 and T-20011)
	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-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note1:

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.

Note2:

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.

Note3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty			
Conduction emission	3.62 dB			
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB			
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB			
Radiated Emission	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.				

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name/PMN:	BE11000 Whole Home Mesh Wi-Fi 7 System
Model/HVIN:	Deco BE65
Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM,64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE802.11b/g/n HT20/n HT40/n VHT20/n VHT40/ax HE20/ax HE40
FVIN:	V1.0
Normal Test Voltage:	DC 12 V via adapter

5.2. CHANNEL LIST

Channel List for 802.11b/g/n/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

	Channel List for 802.11n/ax (40 MHz)										
ChannelFrequency (MHz)Frequency (MHz)Frequency (MHz)Frequency (MHz)Frequency (MHz)Frequency (MHz)Frequency (MHz)											
3	2422	5 2432 7 2442 9 2									
4	2427	6	2437	8	2447	/	/				

5.3. MAXIMUM EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)	Maximum AVG EIRP (dBm)
b	2412 ~ 2462	1-11[11]	25.85	27.85
g	2412 ~ 2462	1-11[11]	26.78	28.78
ax HE20	2412 ~ 2462	1-11[11]	26.39	28.39
ax HE40	2422 ~ 2452	3-9[7]	25.46	27.46

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1, CH2, CH 6, CH10, CH 11	2412, 2417, 2437, 2457, 2462
g	CH 1, CH2, CH 6, CH10, CH 11	2412, 2417, 2437, 2457, 2462
ax HE20	CH 1, CH2, CH 6, CH10, CH 11	2412, 2417, 2437, 2457, 2462
ax HE40	CH 3, CH4, CH 6, CH8, CH 9	2422, 2427, 2437, 2447, 2452

5.5. THE WORSE CASE POWER SETTING PARAMETER

The W	The Worse Case Power Setting Parameter under 2400 ~ 2483.5 MHz Band										
Test Software					QSF	۲R					
	Transmit		Test Channel								
Modulation Mode	Antenna		Ν	CB: 20	MHz			NCB	: 40 M	Hz	
Widde	Number	CH 1	CH 2	CH 6	CH 10	CH 11	CH 3	CH 4	CH 6	CH 8	CH 9
802.11b	1	24	24	24	24	24					
002.110	3	24	24	24	24	24					
902 11a	1	27	27	27	27	27			/		
802.11g	3	27	27	27	27	27			/		
802.11n HT20	1		Cover by 802.11ax HE20								
002.11111120	3			Jy 802.		20					
802.11n HT40	1			/			Cover by 802.11ax HE40				
002.11111140	3			/			000	erbyc	02.116		+0
802.11n VHT20	1	0	over h	w 802 ·	11ax HE	20	/				
002.1111 011120	3			y 002.		.20			/		
802.11n VHT40	1			/			Cover by 802.11ax HE40				
002.1111 111 40	3			/			000		02.110		10
802.11ax HE20	1	27	27	27	27	26			/		
	3	27	27	27	27	26		1	,		
802.11ax HE40	1			/			22	22	25	22	21
	3			/			22	22	25	22	21

WORST-CASE CONFIGURATIONS

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

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

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

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

802.11b CDD mode: 1 Mbps 802.11g CDD mode: 6 Mbps 802.11n HT20 CDD mode: MCS0 802.11n HT40 CDD mode: MCS0 802.11n VHT20 CDD mode: MCS0 802.11n VHT40 CDD mode: MCS0 802.11ax HE20 CDD mode: MCS0 802.11ax HE40 CDD mode: MCS0

All modes support CDD mode.

802.11n HT20/HT40/VHT20/VHT40 and 802.11ax HE20/HE40 were performed on the worst case (802.11ax HE20/HE40) mode and only the worst data was recorded in this report.

The EUT has 4 separate antennas which correspond to 4 separate antenna ports. Core 1 and Core 3 correspond to antenna 1 and antenna 3 respectively and they support WLAN 2.4G and RLAN 5G. Core 2 and Core 4 correspond to antenna 2 and antenna 4 respectively and they support RLAN 6G, but it's not check in this device, and they have been disabled by software.

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

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	Dipole Antenna	2
3	2412-2462	Dipole Antenna	2

The EUT support Cyclic Shift Diversity(CDD) mode.

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

For output power measurements: Directional gain= G_{ANT} + Array Gain = 2 dBi G_{ANT} : equal to the gain of the antenna having the highest gain Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$

For power spectral density (PSD) measurements: Directional gain= G_{ANT} + Array Gain = 5.01 dBi Array Gain = 10 log(N_{ANT}/N_{SS}) dB. N_{ANT} : number of transmit antennas N_{SS} : number of spatial streams, The worst case directional gain will occur when N_{SS} = 1

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11g	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11n VHT20	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11n VHT40	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE20	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.
IEEE 802.11ax HE40	⊠2TX, 2RX	ANT 1 and ANT 3 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.



5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	X230i	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB	Unshielded	1.0 m	/
2	LAN1	RJ45	Unshielded	1.0 m	/
3	LAN2	RJ45	Unshielded	1.0 m	/
4	LAN3	RJ45	Unshielded	1.0 m	/
5	LAN4	RJ45	Unshielded	1.0 m	/

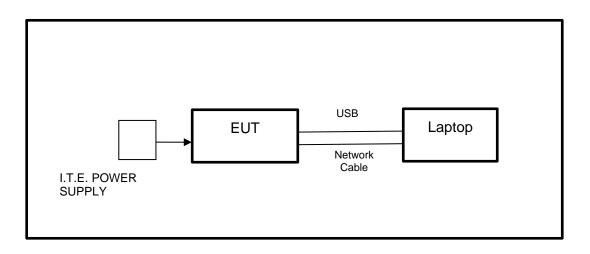
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	I.T.E. POWER SUPPLY	tp-link	T120330-2B4	Input: AC 100-240 V, 50 / 60 Hz, 1 A Output: DC 12.0 V, 3.3 A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System										
Equipment		Manufacturer		Model	No.	Serial No.	Last C	al.	Due. Date	
Power sensor, Power M	leter	R&S	5	OSP1	20	100921	Apr.02,2	2022	Apr.01,2023	
Vector Signal Generat	tor	R&S	5	SMBV1	00A	261637	Oct.17, 2	2022	Oct.16, 2023	
Signal Generator		R&S	5	SMB10	00A	178553	Oct.17, 2	2022	Oct.16, 2023	
Signal Analyzer		R&S	5	FSV4	0	101118	Oct.17, 2	2022	Oct.16, 2023	
				Softwar	е					
Description		Ν	/lanuf	acturer		Nam	ie		Version	
For R&S TS 8997 Test	Syste	m Rol	nde &	Schwar	z	EMC	32		10.60.10	
Tonsend RF Test System										
Equipment	Manu	ufacturer	Мос	del No.	S	Serial No.	Last Cal.		Due. Date	
Wideband Radio Communication Tester	F	R&S	СМ	W500	00 155523		Oct.17, 2022		Oct.16, 2023	
Wireless Connectivity Tester	F	R&S	СМ	W270	120	1.0002N75- 102	Sep.28,	2022	Sep.27, 2023	
PXA Signal Analyzer	Ke	ysight	N9	030A	MY	⁄55410512	Oct.17,	2022	Oct.16, 2023	
MXG Vector Signal Generator	Ke	ysight	N5	182B	ΜY	⁄56200284	Oct.17,	2022	Oct.16, 2023	
MXG Vector Signal Generator	Ke	ysight	N5	5172B	MY	⁄56200301	Oct.17,	2022	Oct.16, 2023	
DC power supply	Ke	ysight	E3	642A	ΜY	⁄55159130	Oct.17,	2022	Oct.16, 2023	
Temperature & Humidity Chamber	SAN	MOOD	SG-8	30-CC-2		2088	Oct.17,	2022	Oct.16, 2023	
				Softwar	е					
Description	Ν	Manufact	urer	Name Versi			Version			
Tonsend SRD Test Syst	em	Tonser	nd	JS1′	120-3	3 RF Test S	ystem	2	.6.77.0518	



	Conducted Emissions										
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date						
EMI Test Receiver	R&S	ESR3	101961	Oct.17, 2022	Oct.16, 2023						
Two-Line V- Network	R&S	ENV216	101983	Oct.17, 2022	Oct.16, 2023						
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.17, 2022	Oct.16, 2023						
		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.17, 2022	Oct.16, 2023					
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024					
Preamplifier	HP	8447D	2944A09099	Oct.17, 2022	Oct.16, 2023					
EMI Measurement Receiver	R&S	ESR26	101377	Oct.17, 2022	Oct.16, 2023					
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024					
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Oct.17, 2022	Oct.16, 2023					
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024					
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Oct.17, 2022	Oct.16, 2023					
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Oct.17, 2022	Oct.16, 2023					
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024					
Preamplifier	TDK	PA-02-001- 3000	TRS-302- 00050	Oct.17, 2022	Oct.16, 2023					
Preamplifier	Mini-Circuits	ZX60-83LN- S+	SUP01202035	Oct.17, 2022	Oct.16, 2023					
High Pass Filter	Wi	WHKX10- 2700-3000- 18000-40SS	23	/	/					
Highpass Filter	Wainwright	WHKX10- 5850-6500- 1800-40SS	4	/	/					
Band Reject Filter	Wainwright	WRCJV12- 5695-5725- 5850-5880- 40SS	4	/	/					
Band Reject Filter	Wainwright	WRCJV20- 5120-5150-	2	/	/					



		5350-5380-			
		60SS			
		WRCJV20-			
Band Reject	Wainwright	5440-5470-	1	1	1
Filter	wantwirght	5725-5755-	· ·	/	,
		60SS			
		WRCJV8-			
Band Reject	Wainwright	2350-2400-	4	1	1
Filter	wantwirght	2483.5-	4	1	/
		2533.5-40SS			
		WRCD5-			
Band Reject		1879-			
Filter	Wainwright	1879.85-	1	/	/
		1880.15-			
		1881-40SS			
		WHJ10-882-			
Notch Filter	Wainwright	980-7000-	1	/	/
		40SS			
	Software				
	Description		Manufacturer	Name	Version
Test Software	e 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.22, 2022	Oct.21, 2023
Barometer	Yiyi	Baro	N/A	Oct.24, 2022	Oct.23, 2023
Attenuator	Agilent	8495B	2814a12853	Oct.18, 2022	Oct.17, 2023



7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
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
ISED RSS-247 5.4 (d)	EIRP	1 watt or 36 dBm	2400-2483.5

TEST PROCEDURE

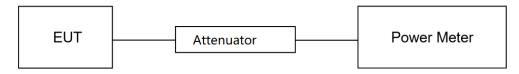
Refer to ANSI C63.10-2013 clause 11.9.2.3.1.

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	25.8 ℃	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	February 23, 2023	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix C



7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
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 analyser and use the following settings:
--

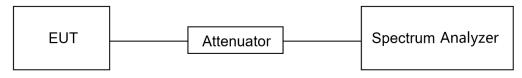
Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RR///	For 6 dB Bandwidth: 100 kHz For 99 % Occupied Bandwidth: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

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



TEST SETUP



TEST ENVIRONMENT

Temperature	25.8 ℃	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	February 23, 2023	Test By	Johnson Liu
		-	

TEST RESULTS

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



7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
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.

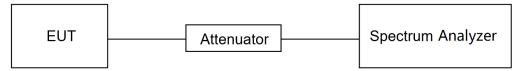
Connect the EUT to the spectrum analyser and use the following settings:

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	Average
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	25.8 ℃	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V



TEST DATE / ENGINEER

Test Date	February 23, 2023	Test By	Johnson Liu
	· · · · · · · · · · · · · · · · · · ·		

TEST RESULTS

Please refer to section "Test Data" - Appendix D



7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

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

Connect the EUT to the spectrum analyser 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.

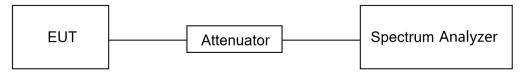
Change the settings for emission level measurement:

5040	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	25.8 ℃	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date	February 23, 2023	Test By	Johnson Liu

TEST RESULTS

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



7.5. DUTY CYCLE

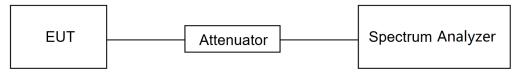
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

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

TEST SETUP



TEST ENVIRONMENT

Temperature	25.8 ℃	Relative Humidity	57.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

Test Date February 23, 2023 Test By Johnson Liu	
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TEST RESULTS

Please refer to section "Test Data" - Appendix G



8. RADIATED TEST RESULTS

LIMITS

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

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

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Stren (dBuV/m)	•
		Quasi-l	Peak
30 - 88	100	40	
88 - 216	150	43.	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
	500	74	54

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

ISED General field strength limits at frequencies below 30 MHz

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

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



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

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	158.7 - 158.9	10.6 - 12.7
3.020 - 3.028	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 18.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1648.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3280 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

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

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

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

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

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

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.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

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 1G

The setting of the spectrum analyser

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.

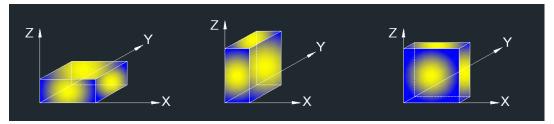
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

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.

For Band edge 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. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

7. Horizontal and Vertical have been tested, only the worst data was recorded in the report.

8. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 1GHz-3GHz note:

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, channels and antennas have been tested, only the worst data was recorded in the report.



For Radiate Spurious emission 3GHz-18GHz note:

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, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 9kHz-30MHz note:

1. Measurement = Reading Level + Correct Factor.(dBuA/m= dBuV/m-20Log10[120 π] = dBuV/m- 51.5).

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, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 18GHz-26GHz 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, channels and antennas have been tested, only the worst data was recorded in the report.

For Radiate Spurious emission 30MHz-1GHz note:

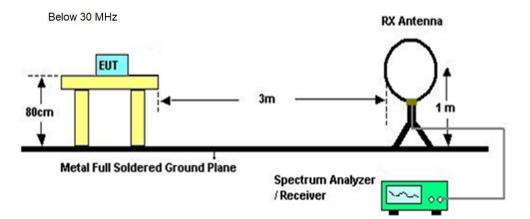
1. Result Level = Read Level + Correct Factor.

2. If the Peak values are less than the QP limit, the QP result is deemed to comply with QP limit.

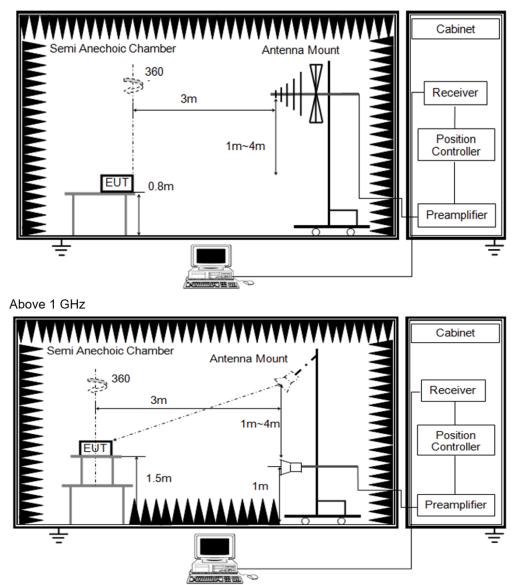
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

4. All modes, channels and antennas have been tested, only the worst data was recorded in the report.

TEST SETUP



Below 1 GHz and above 30 MHz





TEST ENVIRONMENT

Temperature	25.3℃	Relative Humidity	65%
Atmosphere Pressure	101kPa	Test Voltage	DC 12 V

TEST DATE / ENGINEER

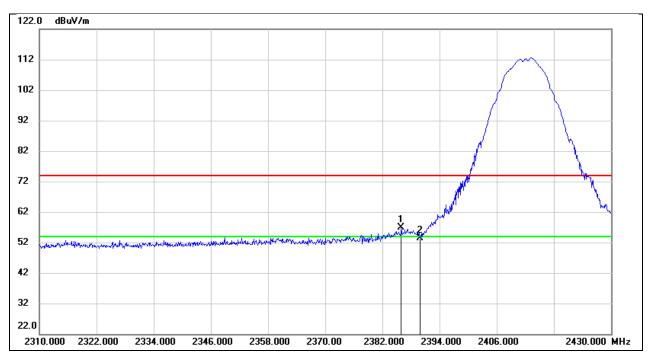
Test Date	February 22, 2023	Test By	Rex Huang
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TEST RESULTS



8.1. RESTRICTED BANDEDGE

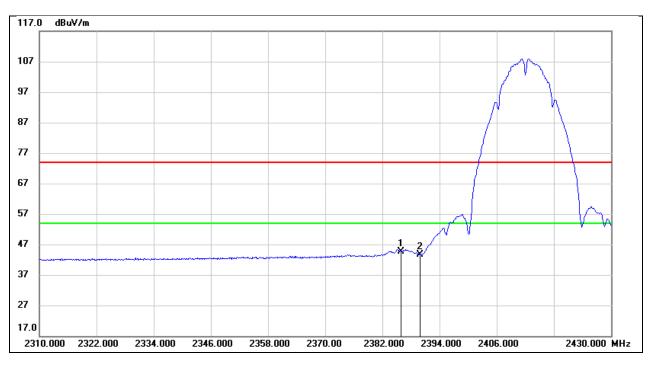
Test Mode:	802.11b PK	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.960	24.85	32.14	56.99	74.00	-17.01	peak
2	2390.000	21.15	32.16	53.31	74.00	-20.69	peak



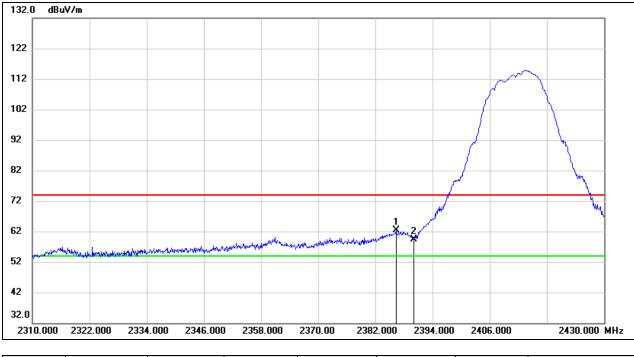
Test Mode:	802.11b AV	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2385.960	12.59	32.14	44.73	54.00	-9.27	AVG
2	2390.000	11.50	32.16	43.66	54.00	-10.34	AVG



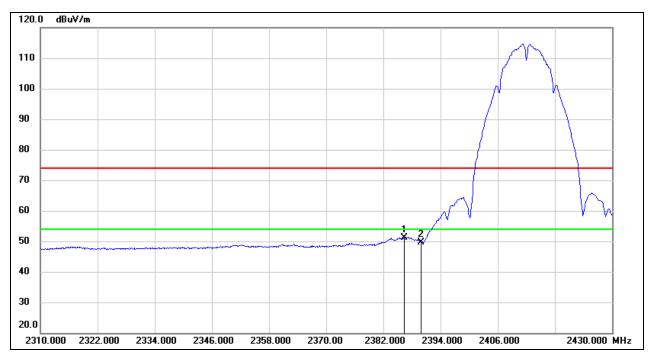
Test Mode:	802.11b PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.320	30.25	32.14	62.39	74.00	-11.61	peak
2	2390.000	27.30	32.16	59.46	74.00	-14.54	peak



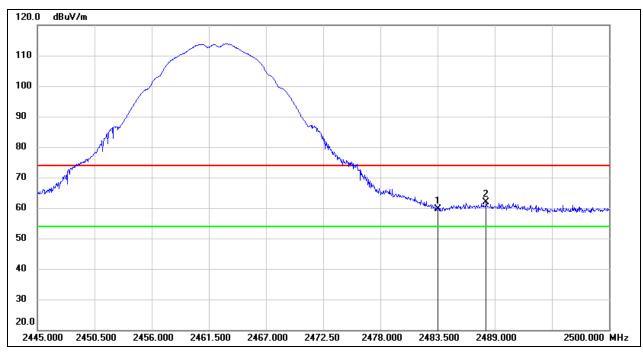
Test Mode:	802.11b AV	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.320	18.94	32.14	51.08	54.00	-2.92	AVG
2	2390.000	17.52	32.16	49.68	54.00	-4.32	AVG



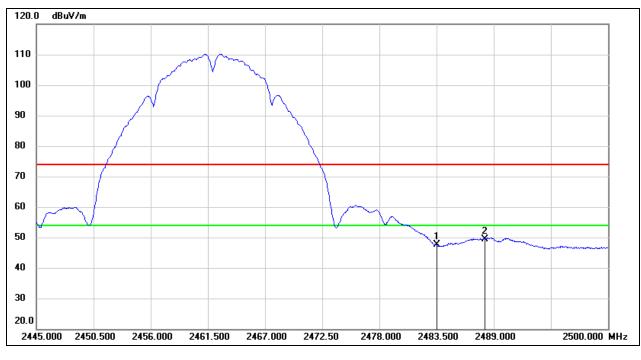
Test Mode:	802.11b PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	30.24	29.44	59.68	74.00	-14.32	peak
2	2488.175	32.30	29.46	61.76	74.00	-12.24	peak



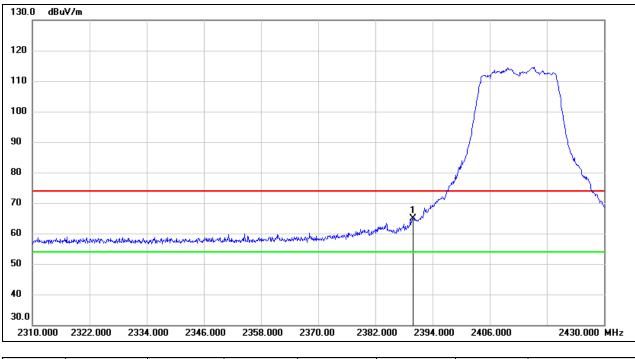
Test Mode:	802.11b AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	18.15	29.44	47.59	54.00	-6.41	AVG
2	2488.175	19.94	29.46	49.40	54.00	-4.60	AVG



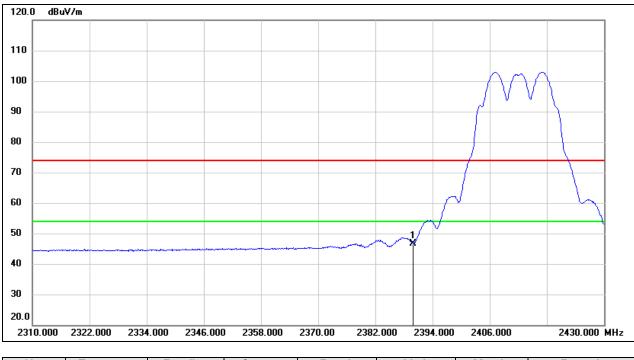
Test Mode:	802.11g PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	35.62	29.16	64.78	74.00	-9.22	peak



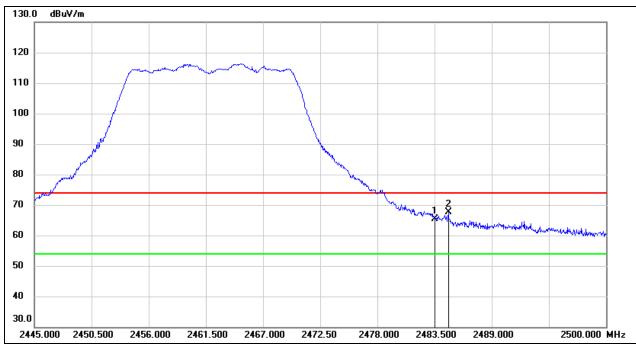
Test Mode:	802.11g AV	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	17.59	29.16	46.75	54.00	-7.25	AVG



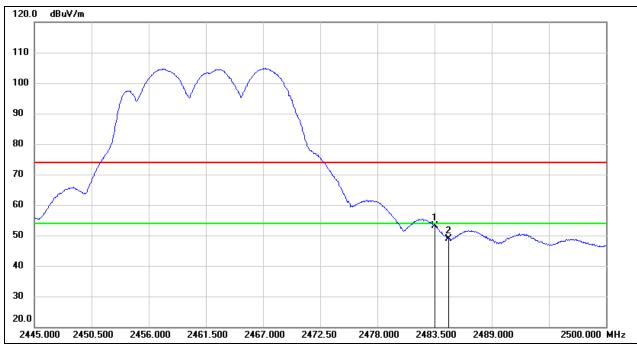
Test Mode:	802.11g PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.05	29.44	65.49	74.00	-8.51	peak
2	2484.820	38.21	29.44	67.65	74.00	-6.35	peak



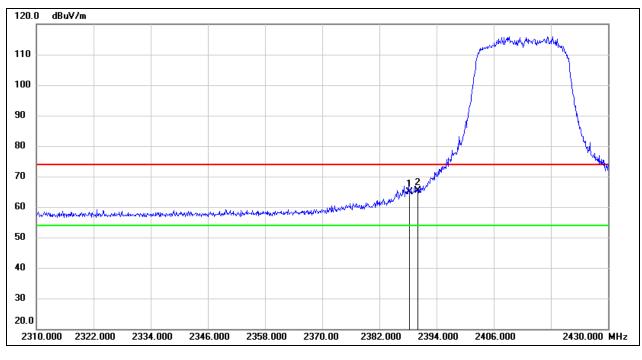
Test Mode:	802.11g AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	23.77	29.44	53.21	54.00	-0.79	AVG
2	2484.820	19.56	29.44	49.00	54.00	-5.00	AVG



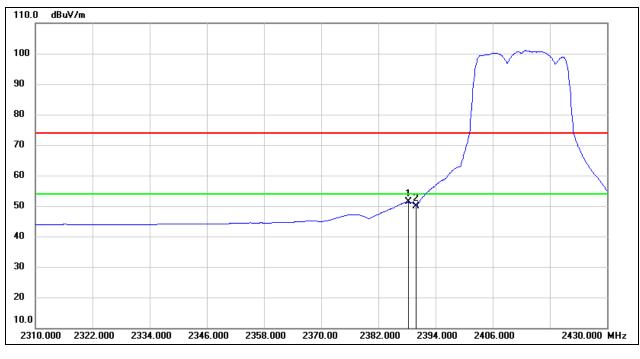
Test Mode:	802.11ax HE20 PK	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.360	35.63	29.16	64.79	74.00	-9.21	peak
2	2390.000	36.20	29.16	65.36	74.00	-8.64	peak



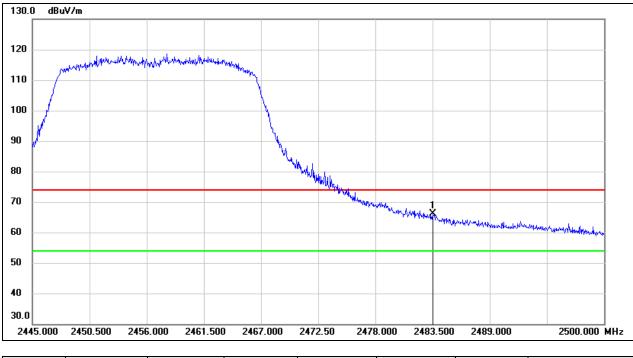
Test Mode:	802.11ax HE20 AV	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.360	22.10	29.16	51.26	54.00	-2.74	AVG
2	2390.000	20.72	29.16	49.88	54.00	-4.12	AVG



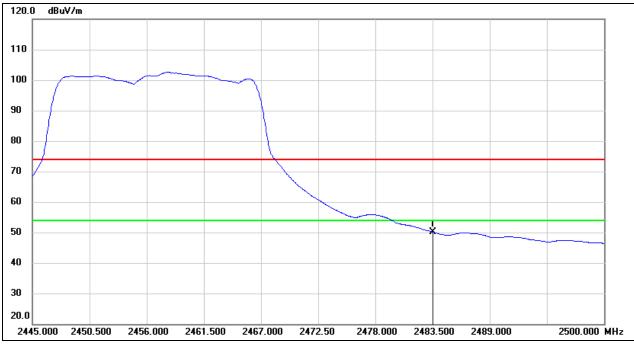
Test Mode:	802.11ax HE20 PK	Channel:	2457
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	36.70	29.44	66.14	74.00	-7.86	peak



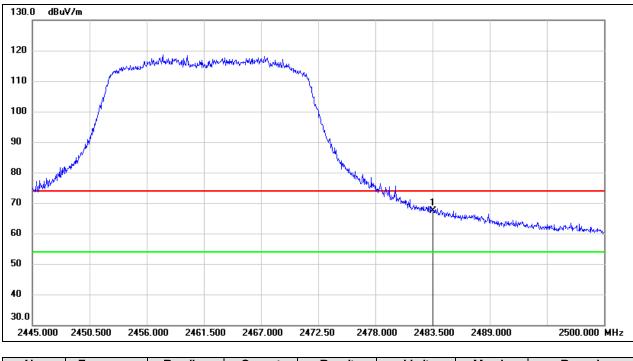
Test Mode:	802.11ax HE20 AV	Channel:	2457
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	20.81	29.44	50.25	54.00	-3.75	AVG



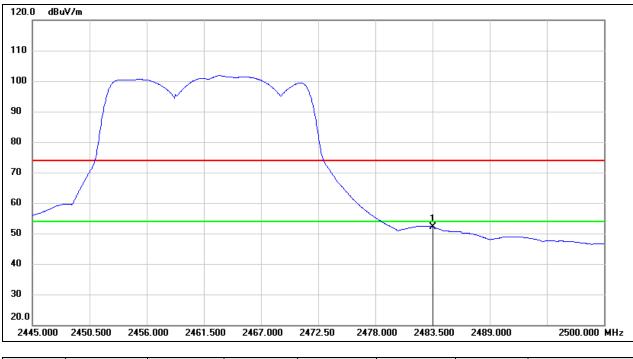
Test Mode:	802.11ax HE20 PK	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.84	29.44	67.28	74.00	-6.72	peak



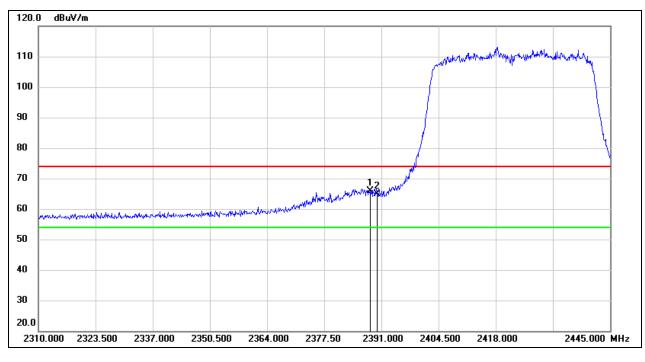
Test Mode:	802.11ax HE20 AV	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	22.75	29.44	52.19	54.00	-1.81	AVG



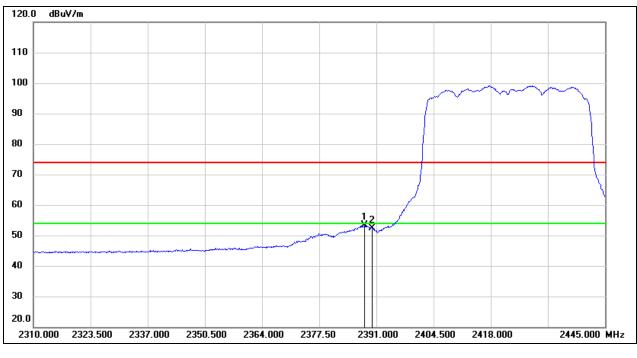
Test Mode:	802.11ax HE40 PK	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.165	36.65	29.16	65.81	74.00	-8.19	peak
2	2390.000	35.60	29.16	64.76	74.00	-9.24	peak



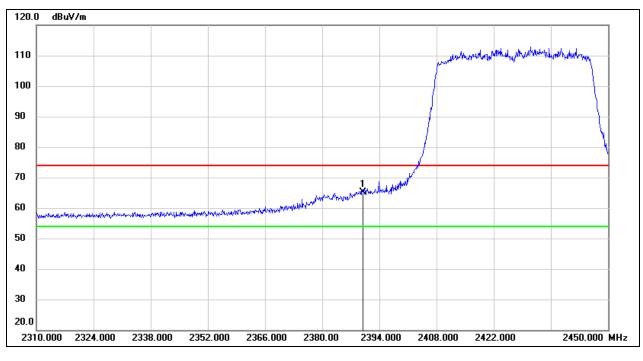
Test Mode:	802.11ax HE40 AV	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.165	24.11	29.16	53.27	54.00	-0.73	AVG
2	2390.000	23.17	29.16	52.33	54.00	-1.67	AVG



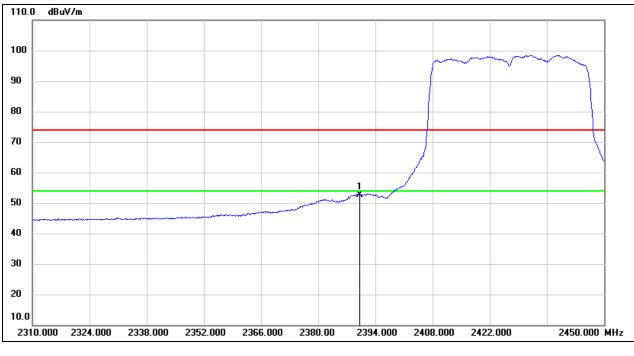
Test Mode:	802.11ax HE40 PK	Channel:	2427
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	36.05	29.16	65.21	74.00	-8.79	peak



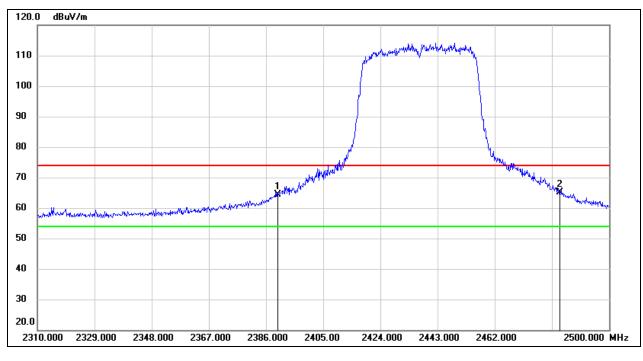
Test Mode:	802.11ax HE40 AV	Channel:	2427
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	23.58	29.16	52.74	54.00	-1.26	AVG



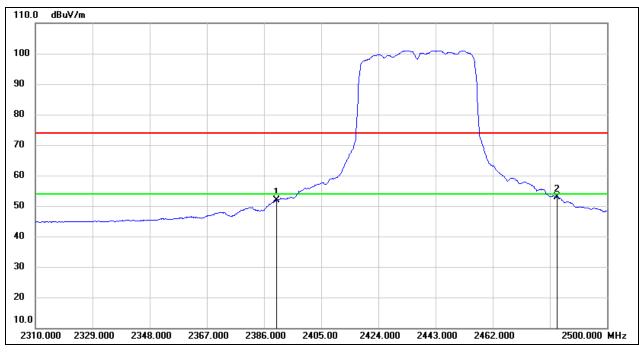
Test Mode:	802.11ax HE40 PK	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	35.27	29.16	64.43	74.00	-9.57	peak
2	2483.500	35.62	29.44	65.06	74.00	-8.94	peak



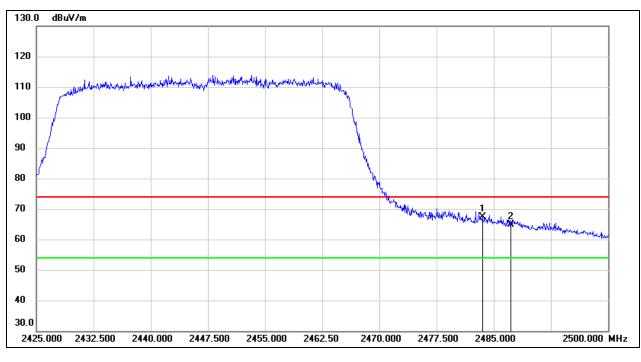
Test Mode:	802.11ax HE40 AV	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	22.76	29.16	51.92	54.00	-2.08	AVG
2	2483.500	23.40	29.44	52.84	54.00	-1.16	AVG



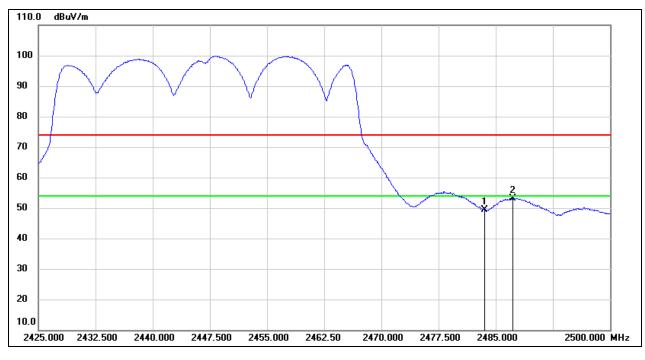
Test Mode:	802.11ax HE40 PK	Channel:	2447
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	37.97	29.44	67.41	74.00	-6.59	peak
2	2487.250	35.32	29.45	64.77	74.00	-9.23	peak



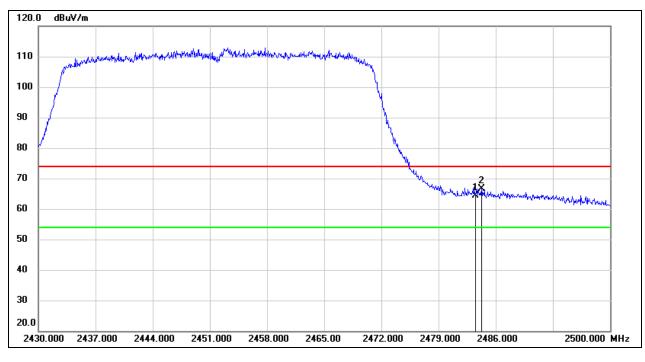
Test Mode:	802.11ax HE40 AV	Channel:	2447
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	19.84	29.44	49.28	54.00	-4.72	AVG
2	2487.250	23.69	29.45	53.14	54.00	-0.86	AVG



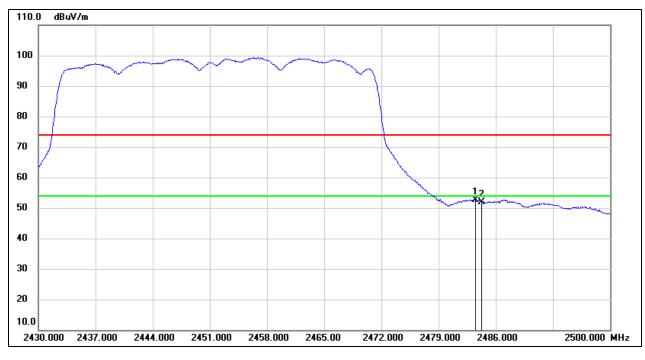
Test Mode:	802.11ax HE40 PK	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	35.04	29.44	64.48	74.00	-9.52	peak
2	2484.250	37.14	29.44	66.58	74.00	-7.42	peak



Test Mode:	802.11ax HE40 AV	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 12 V

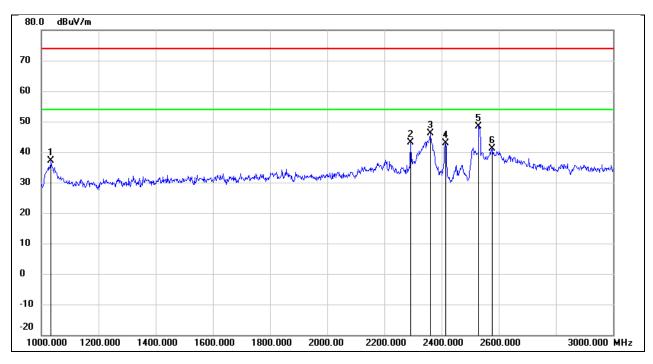


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	23.07	29.44	52.51	54.00	-1.49	AVG
2	2484.250	22.37	29.44	51.81	54.00	-2.19	AVG



8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

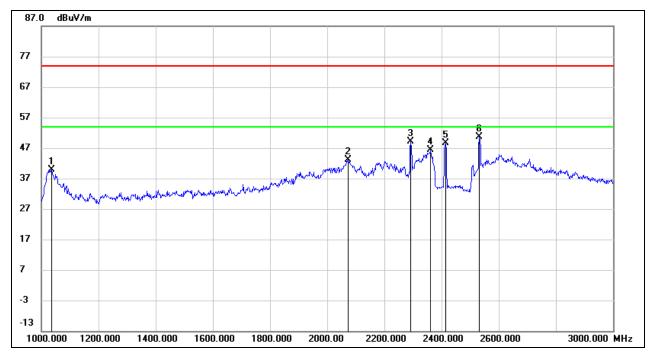
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1034.000	52.10	-14.87	37.23	74.00	-36.77	peak
2	2292.000	52.66	-9.56	43.10	74.00	-30.90	peak
3	2360.000	55.33	-9.21	46.12	74.00	-27.88	peak
4	2414.000	51.72	-8.93	42.79	74.00	-31.21	peak
5	2530.000	56.87	-8.40	48.47	74.00	-25.53	peak
6	2576.000	49.37	-8.26	41.11	74.00	-32.89	peak



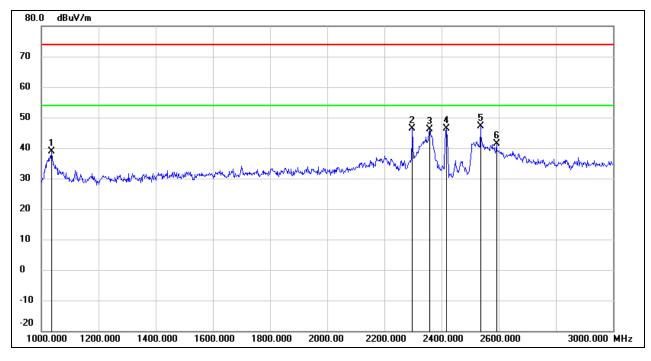
Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1036.000	54.66	-14.87	39.79	74.00	-34.21	peak
2	2074.000	53.75	-10.68	43.07	74.00	-30.93	peak
3	2292.000	58.61	-9.56	49.05	74.00	-24.95	peak
4	2362.000	55.58	-9.20	46.38	74.00	-27.62	peak
5	2414.000	57.60	-8.93	48.67	74.00	-25.33	peak
6	2532.000	59.12	-8.39	50.73	74.00	-23.27	peak



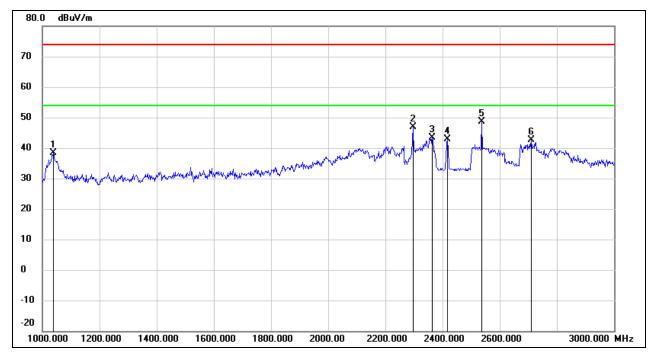
Test Mode:	802.11b	Channel:	2417
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1036.000	53.70	-14.87	38.83	74.00	-35.17	peak
2	2298.000	55.83	-9.53	46.30	74.00	-27.70	peak
3	2358.000	55.28	-9.22	46.06	74.00	-27.94	peak
4	2416.000	55.26	-8.92	46.34	74.00	-27.66	peak
5	2536.000	55.43	-8.38	47.05	74.00	-26.95	peak
6	2592.000	49.47	-8.21	41.26	74.00	-32.74	peak



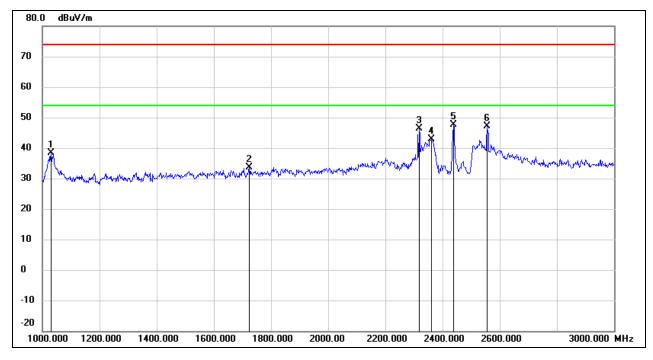
Test Mode:	802.11b	Channel:	2417
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1038.000	53.25	-14.85	38.40	74.00	-35.60	peak
2	2296.000	56.52	-9.54	46.98	74.00	-27.02	peak
3	2364.000	52.53	-9.19	43.34	74.00	-30.66	peak
4	2416.000	51.85	-8.92	42.93	74.00	-31.07	peak
5	2536.000	56.95	-8.38	48.57	74.00	-25.43	peak
6	2710.000	50.40	-7.85	42.55	74.00	-31.45	peak



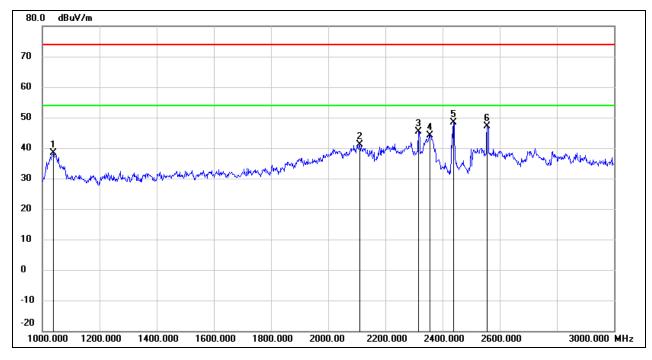
Test Mode:	802.11b	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1030.000	53.26	-14.89	38.37	74.00	-35.63	peak
2	1724.000	45.63	-11.97	33.66	74.00	-40.34	peak
3	2318.000	55.68	-9.42	46.26	74.00	-27.74	peak
4	2362.000	52.18	-9.20	42.98	74.00	-31.02	peak
5	2438.000	56.33	-8.80	47.53	74.00	-26.47	peak
6	2556.000	55.56	-8.32	47.24	74.00	-26.76	peak



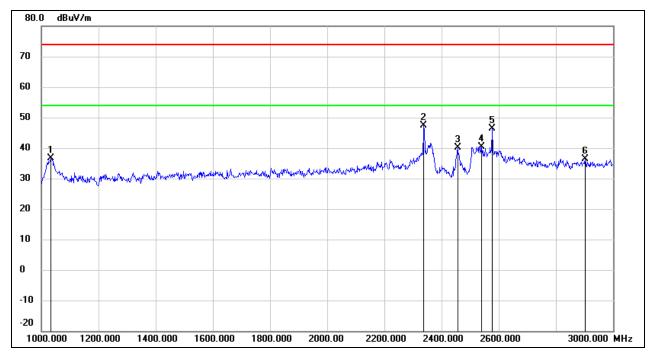
Test Mode:	802.11b	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1038.000	53.16	-14.85	38.31	74.00	-35.69	peak
2	2110.000	51.67	-10.49	41.18	74.00	-32.82	peak
3	2316.000	54.83	-9.44	45.39	74.00	-28.61	peak
4	2356.000	53.45	-9.22	44.23	74.00	-29.77	peak
5	2438.000	57.14	-8.80	48.34	74.00	-25.66	peak
6	2556.000	55.40	-8.32	47.08	74.00	-26.92	peak



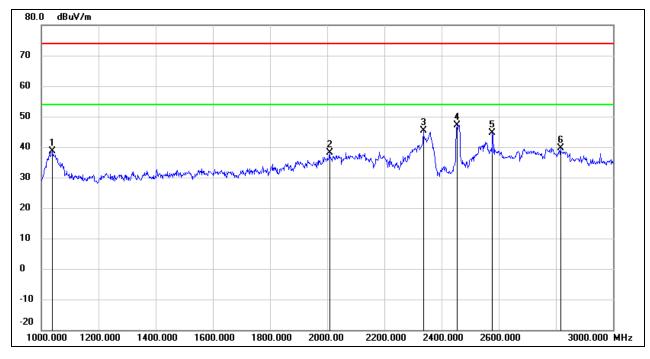
Test Mode:	802.11b	Channel:	2457
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1032.000	51.53	-14.88	36.65	74.00	-37.35	peak
2	2338.000	56.70	-9.32	47.38	74.00	-26.62	peak
3	2456.000	48.74	-8.71	40.03	74.00	-33.97	peak
4	2540.000	48.82	-8.37	40.45	74.00	-33.55	peak
5	2576.000	54.72	-8.26	46.46	74.00	-27.54	peak
6	2902.000	43.59	-7.28	36.31	74.00	-37.69	peak



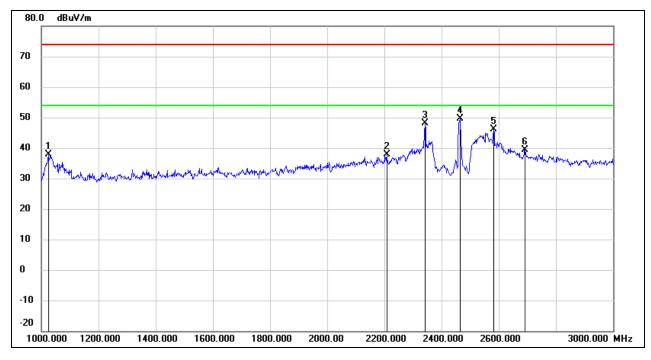
Test Mode:	802.11b	Channel:	2457
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1038.000	53.48	-14.85	38.63	74.00	-35.37	peak
2	2008.000	49.25	-11.02	38.23	74.00	-35.77	peak
3	2336.000	54.82	-9.33	45.49	74.00	-28.51	peak
4	2454.000	55.94	-8.72	47.22	74.00	-26.78	peak
5	2578.000	52.89	-8.26	44.63	74.00	-29.37	peak
6	2816.000	47.28	-7.54	39.74	74.00	-34.26	peak



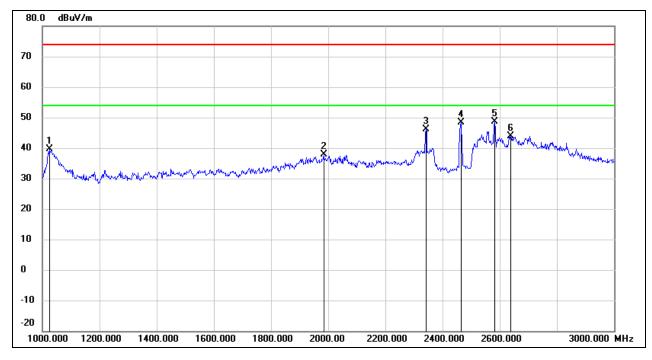
Test Mode:	802.11b	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1024.000	52.77	-14.92	37.85	74.00	-36.15	peak
2	2208.000	47.89	-9.99	37.90	74.00	-36.10	peak
3	2342.000	57.51	-9.30	48.21	74.00	-25.79	peak
4	2464.000	58.41	-8.68	49.73	74.00	-24.27	peak
5	2582.000	54.44	-8.24	46.20	74.00	-27.80	peak
6	2692.000	47.23	-7.91	39.32	74.00	-34.68	peak



Test Mode:	802.11b	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V

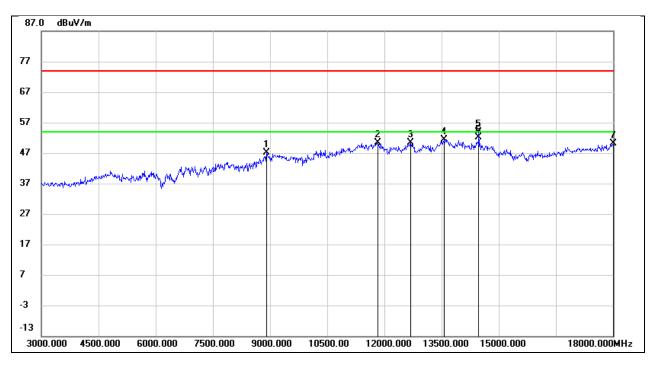


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1024.000	54.47	-14.92	39.55	74.00	-34.45	peak
2	1984.000	49.10	-11.11	37.99	74.00	-36.01	peak
3	2342.000	55.47	-9.30	46.17	74.00	-27.83	peak
4	2464.000	57.07	-8.68	48.39	74.00	-25.61	peak
5	2582.000	56.94	-8.24	48.70	74.00	-25.30	peak
6	2638.000	52.00	-8.07	43.93	74.00	-30.07	peak



8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

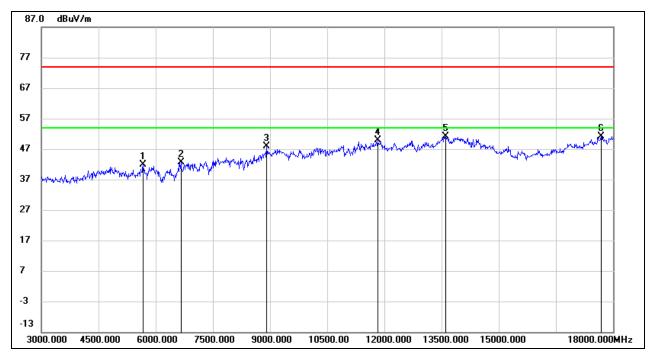
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8910.000	37.42	9.82	47.24	74.00	-26.76	peak
2	11820.000	32.89	17.47	50.36	74.00	-23.64	peak
3	12690.000	32.34	18.02	50.36	74.00	-23.64	peak
4	13575.000	30.37	21.06	51.43	74.00	-22.57	peak
5	14475.000	33.97	20.00	53.97	74.00	-20.03	peak
6	14475.000	32.01	20.00	52.01	54.00	-1.99	AVG
7	18000.000	24.47	25.69	50.16	74.00	-23.84	peak



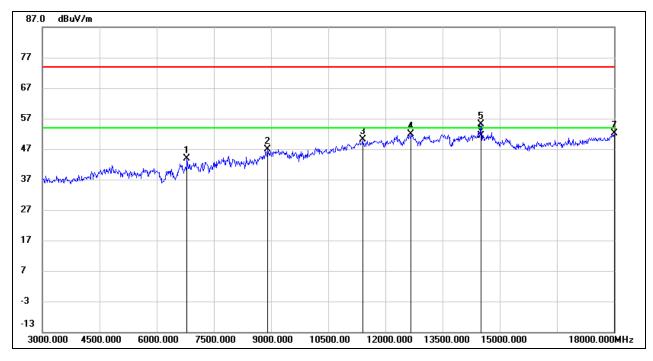
Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5670.000	40.43	1.33	41.76	74.00	-32.24	peak
2	6660.000	37.60	5.02	42.62	74.00	-31.38	peak
3	8910.000	38.01	9.82	47.83	74.00	-26.17	peak
4	11820.000	32.33	17.47	49.80	74.00	-24.20	peak
5	13605.000	30.06	21.12	51.18	74.00	-22.82	peak
6	17685.000	27.22	23.82	51.04	74.00	-22.96	peak



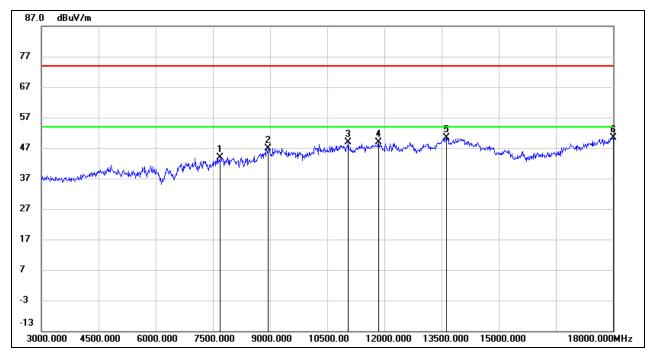
Test Mode:	802.11b	Channel:	2417
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6795.000	38.18	5.68	43.86	74.00	-30.14	peak
2	8910.000	37.08	9.82	46.90	74.00	-27.10	peak
3	11400.000	33.79	16.23	50.02	74.00	-23.98	peak
4	12675.000	33.89	17.99	51.88	74.00	-22.12	peak
5	14505.000	35.34	19.88	55.22	74.00	-18.78	peak
6	14505.000	31.59	19.88	51.47	54.00	-2.53	AVG
7	18000.000	26.35	25.69	52.04	74.00	-21.96	peak



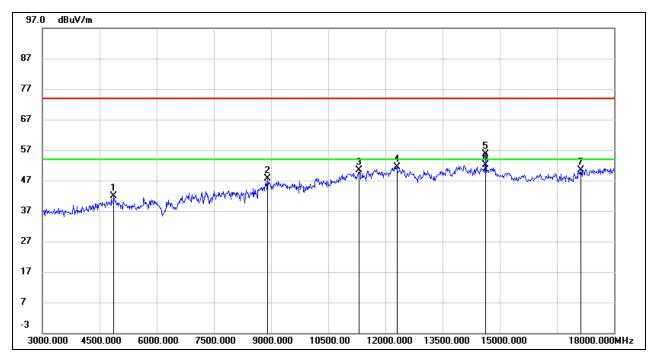
Test Mode:	802.11b	Channel:	2417
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7680.000	37.57	6.32	43.89	74.00	-30.11	peak
2	8955.000	36.78	10.16	46.94	74.00	-27.06	peak
3	11055.000	34.03	14.96	48.99	74.00	-25.01	peak
4	11850.000	31.22	17.56	48.78	74.00	-25.22	peak
5	13620.000	29.16	21.15	50.31	74.00	-23.69	peak
6	18000.000	24.72	25.69	50.41	74.00	-23.59	peak



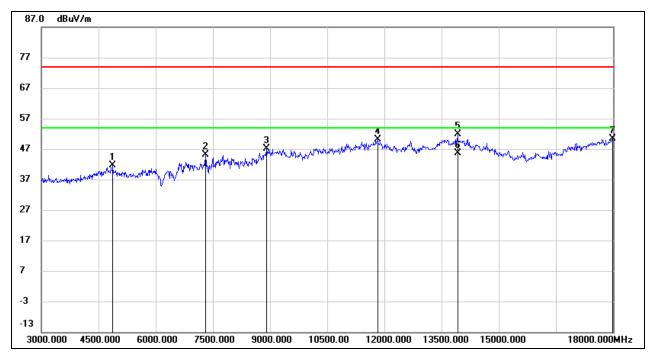
Test Mode:	802.11b	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.93	-0.03	41.90	74.00	-32.10	peak
2	8910.000	37.84	9.82	47.66	74.00	-26.34	peak
3	11310.000	34.39	15.91	50.30	74.00	-23.70	peak
4	12300.000	33.68	17.74	51.42	74.00	-22.58	peak
5	14625.000	36.23	19.40	55.63	74.00	-18.37	peak
6	14625.000	32.72	19.40	52.12	54.00	-1.88	AVG
7	17130.000	29.10	21.37	50.47	74.00	-23.53	peak



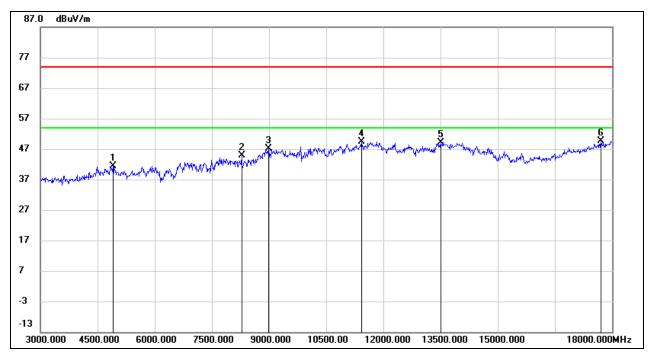
Test Mode:	802.11b	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.69	-0.03	41.66	74.00	-32.34	peak
2	7305.000	38.63	6.47	45.10	74.00	-28.90	peak
3	8910.000	37.40	9.82	47.22	74.00	-26.78	peak
4	11820.000	32.72	17.47	50.19	74.00	-23.81	peak
5	13920.000	30.19	21.79	51.98	74.00	-22.02	peak
6	13920.000	23.92	21.79	45.71	54.00	-8.29	AVG
7	17985.000	24.67	25.60	50.27	74.00	-23.73	peak



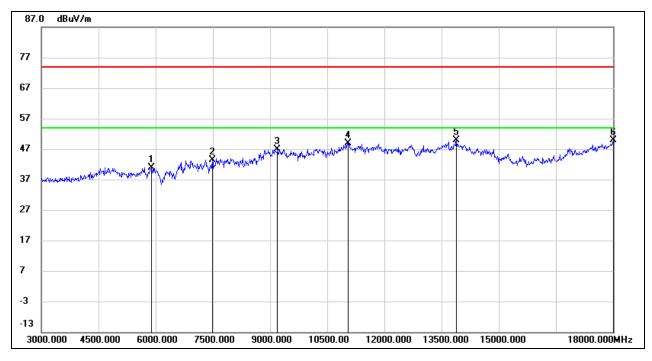
Test Mode:	802.11b	Channel:	2457
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	41.17	0.09	41.26	74.00	-32.74	peak
2	8280.000	38.16	6.61	44.77	74.00	-29.23	peak
3	8985.000	36.66	10.37	47.03	74.00	-26.97	peak
4	11430.000	33.10	16.34	49.44	74.00	-24.56	peak
5	13500.000	28.24	20.90	49.14	74.00	-24.86	peak
6	17700.000	25.68	23.91	49.59	74.00	-24.41	peak



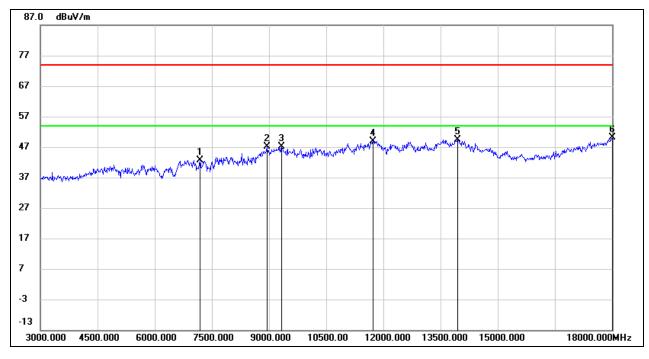
Test Mode:	802.11b	Channel:	2457
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5880.000	39.02	1.92	40.94	74.00	-33.06	peak
2	7485.000	37.12	6.34	43.46	74.00	-30.54	peak
3	9195.000	36.32	10.56	46.88	74.00	-27.12	peak
4	11055.000	34.03	14.96	48.99	74.00	-25.01	peak
5	13890.000	28.07	21.72	49.79	74.00	-24.21	peak
6	18000.000	24.31	25.69	50.00	74.00	-24.00	peak



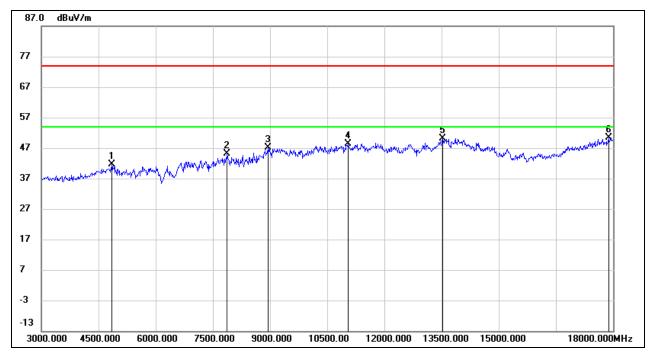
Test Mode:	802.11b	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7185.000	36.09	6.55	42.64	74.00	-31.36	peak
2	8940.000	37.01	10.04	47.05	74.00	-26.95	peak
3	9330.000	36.57	10.62	47.19	74.00	-26.81	peak
4	11730.000	31.72	17.22	48.94	74.00	-25.06	peak
5	13950.000	27.62	21.86	49.48	74.00	-24.52	peak
6	18000.000	24.38	25.69	50.07	74.00	-23.93	peak



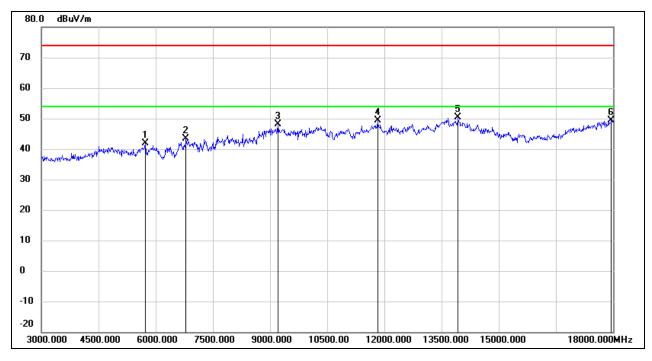
Test Mode:	802.11b	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	41.73	-0.15	41.58	74.00	-32.42	peak
2	7875.000	38.87	6.31	45.18	74.00	-28.82	peak
3	8940.000	37.13	10.04	47.17	74.00	-26.83	peak
4	11055.000	33.44	14.96	48.40	74.00	-25.60	peak
5	13530.000	29.09	20.96	50.05	74.00	-23.95	peak
6	17880.000	25.33	24.98	50.31	74.00	-23.69	peak



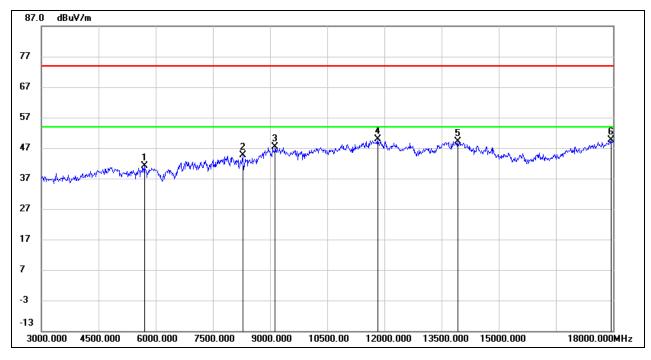
Test Mode:	802.11g	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5730.000	40.29	1.49	41.78	74.00	-32.22	peak
2	6795.000	37.80	5.68	43.48	74.00	-30.52	peak
3	9210.000	37.44	10.57	48.01	74.00	-25.99	peak
4	11820.000	31.83	17.47	49.30	74.00	-24.70	peak
5	13935.000	28.66	21.82	50.48	74.00	-23.52	peak
6	17955.000	24.02	25.42	49.44	74.00	-24.56	peak



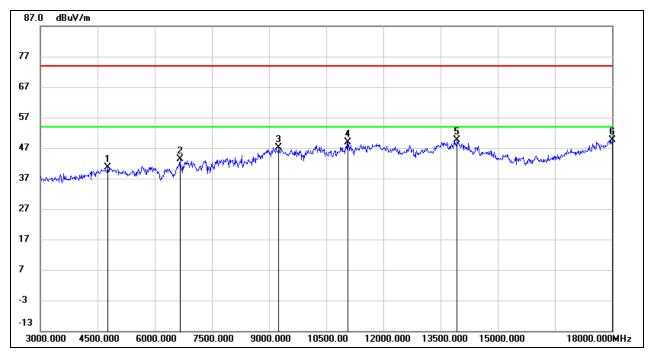
Test Mode:	802.11g	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	39.65	1.41	41.06	74.00	-32.94	peak
2	8280.000	38.08	6.61	44.69	74.00	-29.31	peak
3	9135.000	36.84	10.55	47.39	74.00	-26.61	peak
4	11820.000	32.31	17.47	49.78	74.00	-24.22	peak
5	13920.000	27.39	21.79	49.18	74.00	-24.82	peak
6	17940.000	24.27	25.34	49.61	74.00	-24.39	peak



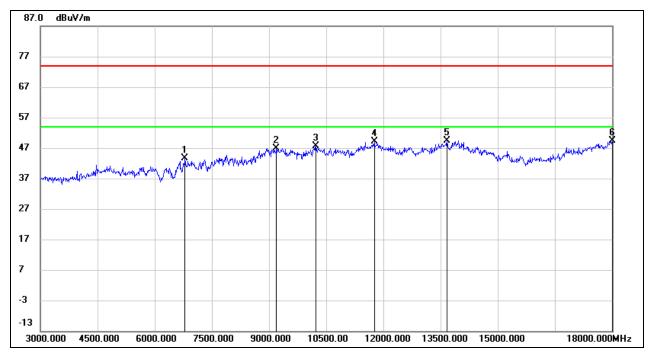
Test Mode:	802.11g	Channel:	2417
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4770.000	41.13	-0.43	40.70	74.00	-33.30	peak
2	6660.000	38.36	5.02	43.38	74.00	-30.62	peak
3	9255.000	36.64	10.59	47.23	74.00	-26.77	peak
4	11070.000	33.95	15.03	48.98	74.00	-25.02	peak
5	13935.000	27.89	21.82	49.71	74.00	-24.29	peak
6	18000.000	24.00	25.69	49.69	74.00	-24.31	peak



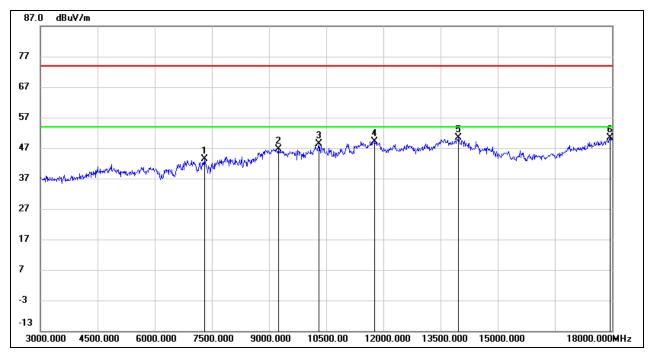
Test Mode:	802.11g	Channel:	2417
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6795.000	37.84	5.68	43.52	74.00	-30.48	peak
2	9195.000	36.38	10.56	46.94	74.00	-27.06	peak
3	10230.000	35.15	12.46	47.61	74.00	-26.39	peak
4	11760.000	31.79	17.31	49.10	74.00	-24.90	peak
5	13665.000	28.21	21.25	49.46	74.00	-24.54	peak
6	18000.000	23.63	25.69	49.32	74.00	-24.68	peak



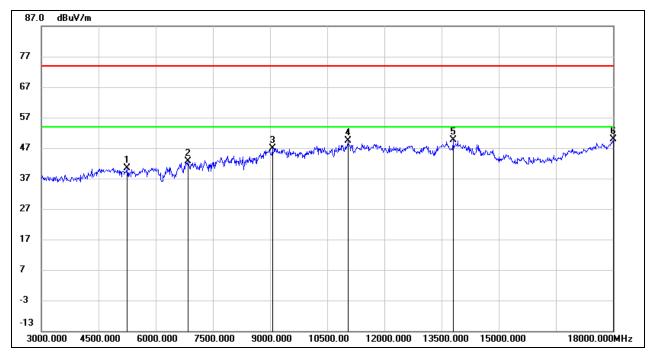
Test Mode:	802.11g	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7305.000	37.00	6.47	43.47	74.00	-30.53	peak
2	9240.000	36.00	10.58	46.58	74.00	-27.42	peak
3	10305.000	35.80	12.61	48.41	74.00	-25.59	peak
4	11775.000	31.75	17.35	49.10	74.00	-24.90	peak
5	13965.000	28.61	21.89	50.50	74.00	-23.50	peak
6	17940.000	25.08	25.34	50.42	74.00	-23.58	peak



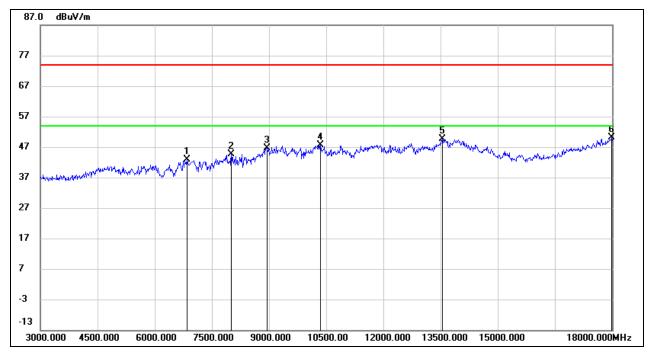
Test Mode:	802.11g	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5250.000	39.84	0.64	40.48	74.00	-33.52	peak
2	6840.000	36.66	5.89	42.55	74.00	-31.45	peak
3	9060.000	36.48	10.51	46.99	74.00	-27.01	peak
4	11040.000	34.37	14.91	49.28	74.00	-24.72	peak
5	13800.000	28.18	21.54	49.72	74.00	-24.28	peak
6	18000.000	24.13	25.69	49.82	74.00	-24.18	peak



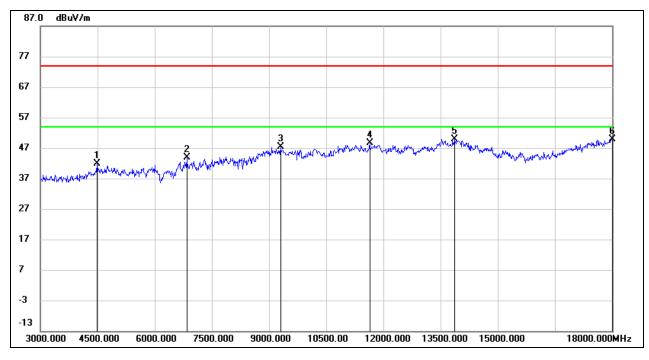
Test Mode:	802.11g	Channel:	2457
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6840.000	36.95	5.89	42.84	74.00	-31.16	peak
2	8010.000	38.43	6.32	44.75	74.00	-29.25	peak
3	8940.000	36.67	10.04	46.71	74.00	-27.29	peak
4	10350.000	34.96	12.70	47.66	74.00	-26.34	peak
5	13545.000	28.54	20.99	49.53	74.00	-24.47	peak
6	17985.000	24.50	25.60	50.10	74.00	-23.90	peak



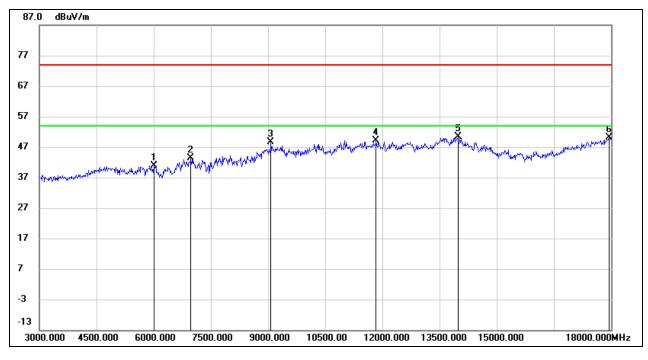
Test Mode:	802.11g	Channel:	2457
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4485.000	43.39	-1.53	41.86	74.00	-32.14	peak
2	6840.000	38.01	5.89	43.90	74.00	-30.10	peak
3	9300.000	36.66	10.61	47.27	74.00	-26.73	peak
4	11640.000	31.63	16.98	48.61	74.00	-25.39	peak
5	13860.000	28.25	21.67	49.92	74.00	-24.08	peak
6	18000.000	24.19	25.69	49.88	74.00	-24.12	peak



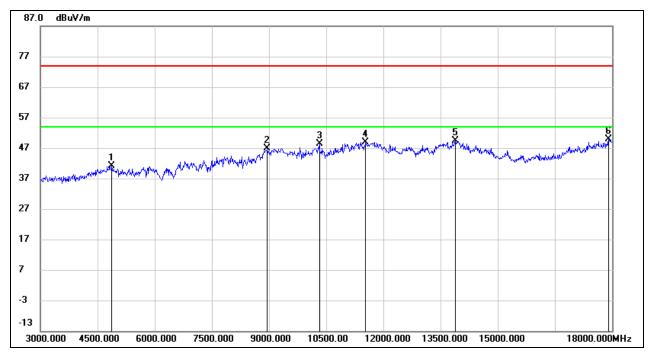
Test Mode:	802.11g	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6000.000	38.63	2.25	40.88	74.00	-33.12	peak
2	6975.000	36.88	6.57	43.45	74.00	-30.55	peak
3	9075.000	38.04	10.52	48.56	74.00	-25.44	peak
4	11835.000	31.70	17.51	49.21	74.00	-24.79	peak
5	13980.000	28.44	21.92	50.36	74.00	-23.64	peak
6	17955.000	24.69	25.42	50.11	74.00	-23.89	peak



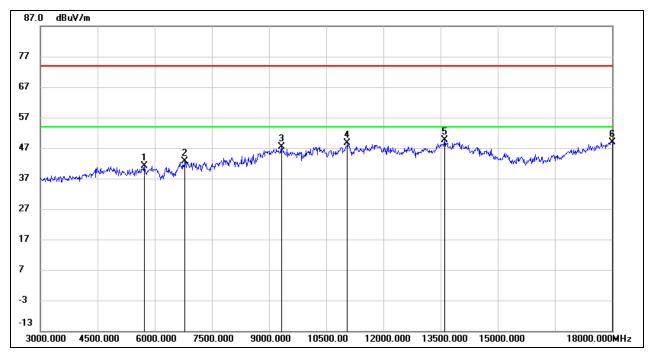
Test Mode:	802.11g	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	41.05	-0.03	41.02	74.00	-32.98	peak
2	8955.000	36.83	10.16	46.99	74.00	-27.01	peak
3	10320.000	35.66	12.64	48.30	74.00	-25.70	peak
4	11535.000	32.15	16.70	48.85	74.00	-25.15	peak
5	13890.000	27.61	21.72	49.33	74.00	-24.67	peak
6	17910.000	24.62	25.16	49.78	74.00	-24.22	peak



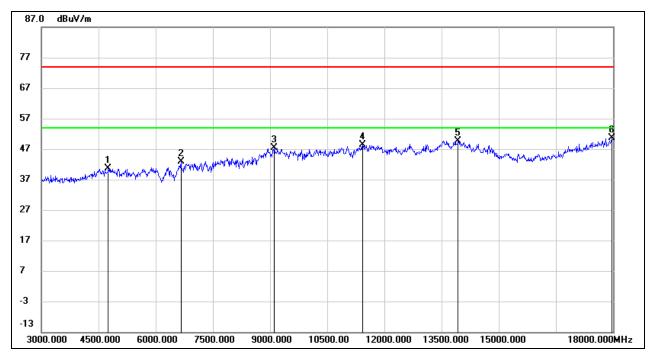
Test Mode:	802.11ax HE20	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5730.000	39.52	1.49	41.01	74.00	-32.99	peak
2	6795.000	36.84	5.68	42.52	74.00	-31.48	peak
3	9330.000	36.64	10.62	47.26	74.00	-26.74	peak
4	11055.000	33.79	14.96	48.75	74.00	-25.25	peak
5	13605.000	28.58	21.12	49.70	74.00	-24.30	peak
6	18000.000	23.24	25.69	48.93	74.00	-25.07	peak



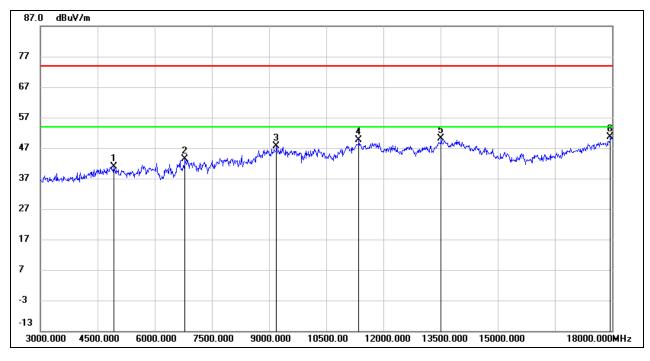
Test Mode:	802.11ax HE20	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4755.000	41.08	-0.48	40.60	74.00	-33.40	peak
2	6660.000	37.85	5.02	42.87	74.00	-31.13	peak
3	9105.000	36.75	10.53	47.28	74.00	-26.72	peak
4	11430.000	32.08	16.34	48.42	74.00	-25.58	peak
5	13935.000	27.81	21.82	49.63	74.00	-24.37	peak
6	17970.000	25.11	25.51	50.62	74.00	-23.38	peak



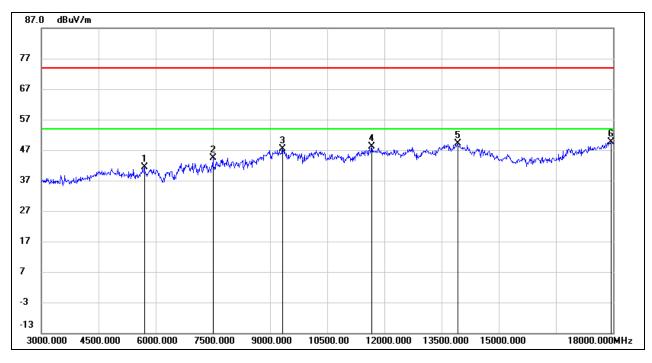
Test Mode:	802.11ax HE20	Channel:	2417
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4935.000	40.69	0.20	40.89	74.00	-33.11	peak
2	6795.000	37.69	5.68	43.37	74.00	-30.63	peak
3	9195.000	37.02	10.56	47.58	74.00	-26.42	peak
4	11355.000	33.49	16.06	49.55	74.00	-24.45	peak
5	13515.000	29.08	20.93	50.01	74.00	-23.99	peak
6	17955.000	25.14	25.42	50.56	74.00	-23.44	peak



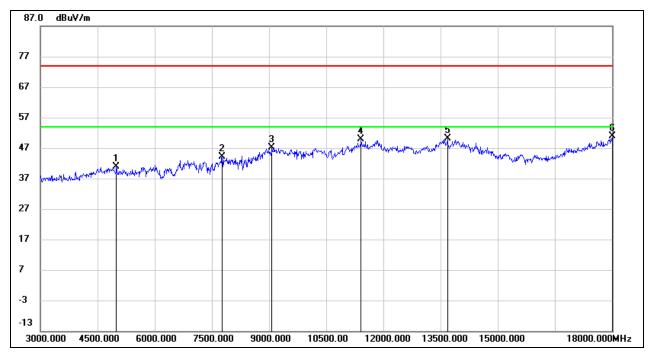
Test Mode:	802.11ax HE20	Channel:	2417
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	39.85	1.41	41.26	74.00	-32.74	peak
2	7500.000	37.96	6.33	44.29	74.00	-29.71	peak
3	9330.000	36.70	10.62	47.32	74.00	-26.68	peak
4	11670.000	30.94	17.07	48.01	74.00	-25.99	peak
5	13920.000	27.33	21.79	49.12	74.00	-24.88	peak
6	17955.000	24.32	25.42	49.74	74.00	-24.26	peak



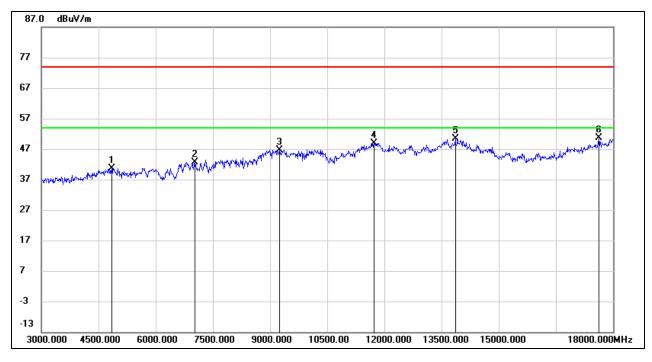
Test Mode:	802.11ax HE20	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4995.000	40.35	0.43	40.78	74.00	-33.22	peak
2	7770.000	37.94	6.31	44.25	74.00	-29.75	peak
3	9075.000	36.65	10.52	47.17	74.00	-26.83	peak
4	11415.000	33.47	16.29	49.76	74.00	-24.24	peak
5	13680.000	28.79	21.29	50.08	74.00	-23.92	peak
6	18000.000	25.24	25.69	50.93	74.00	-23.07	peak



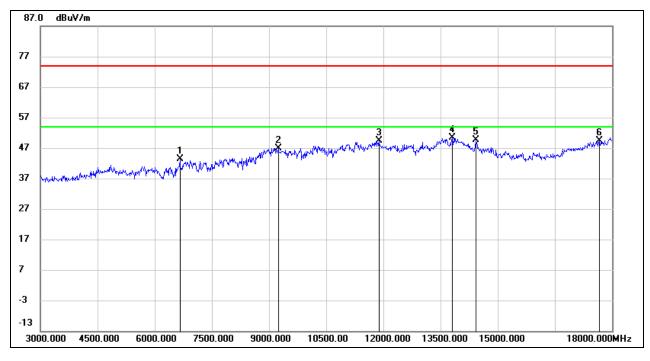
Test Mode:	802.11ax HE20	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4845.000	40.87	-0.15	40.72	74.00	-33.28	peak
2	7020.000	35.99	6.67	42.66	74.00	-31.34	peak
3	9240.000	36.14	10.58	46.72	74.00	-27.28	peak
4	11730.000	31.74	17.22	48.96	74.00	-25.04	peak
5	13860.000	28.81	21.67	50.48	74.00	-23.52	peak
6	17625.000	27.27	23.47	50.74	74.00	-23.26	peak



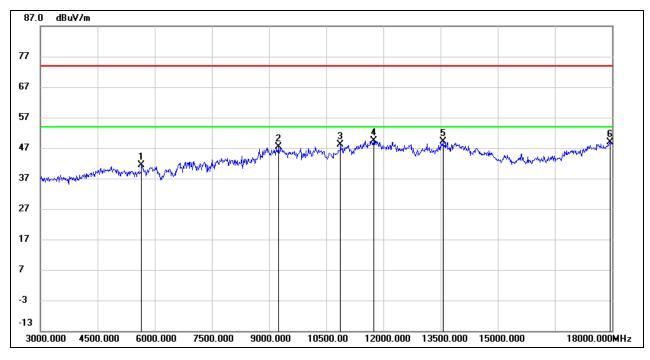
Test Mode:	802.11ax HE20	Channel:	2457
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6660.000	38.28	5.02	43.30	74.00	-30.70	peak
2	9240.000	36.30	10.58	46.88	74.00	-27.12	peak
3	11880.000	31.86	17.63	49.49	74.00	-24.51	peak
4	13815.000	28.72	21.56	50.28	74.00	-23.72	peak
5	14430.000	29.50	20.20	49.70	74.00	-24.30	peak
6	17670.000	25.57	23.73	49.30	74.00	-24.70	peak



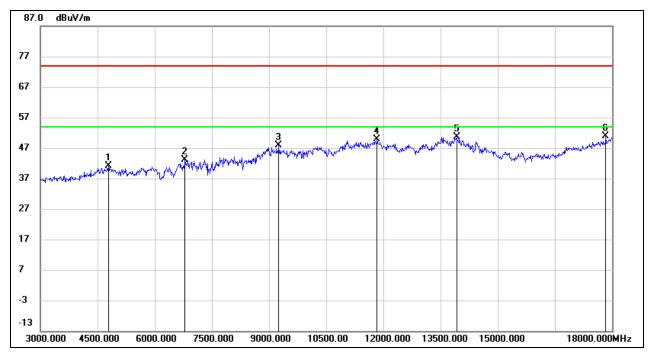
Test Mode:	802.11ax HE20	Channel:	2457
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5655.000	40.04	1.29	41.33	74.00	-32.67	peak
2	9240.000	36.73	10.58	47.31	74.00	-26.69	peak
3	10875.000	33.85	14.32	48.17	74.00	-25.83	peak
4	11745.000	32.07	17.27	49.34	74.00	-24.66	peak
5	13560.000	28.01	21.04	49.05	74.00	-24.95	peak
6	17940.000	23.57	25.34	48.91	74.00	-25.09	peak



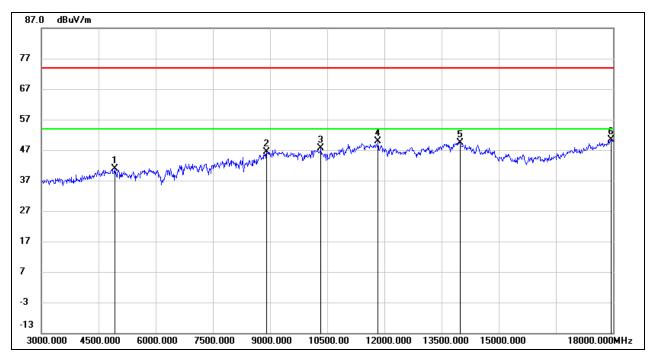
Test Mode:	802.11ax HE20	Channel:	2462
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4785.000	41.48	-0.37	41.11	74.00	-32.89	peak
2	6795.000	37.53	5.68	43.21	74.00	-30.79	peak
3	9255.000	37.18	10.59	47.77	74.00	-26.23	peak
4	11835.000	32.26	17.51	49.77	74.00	-24.23	peak
5	13920.000	28.75	21.79	50.54	74.00	-23.46	peak
6	17835.000	26.07	24.72	50.79	74.00	-23.21	peak



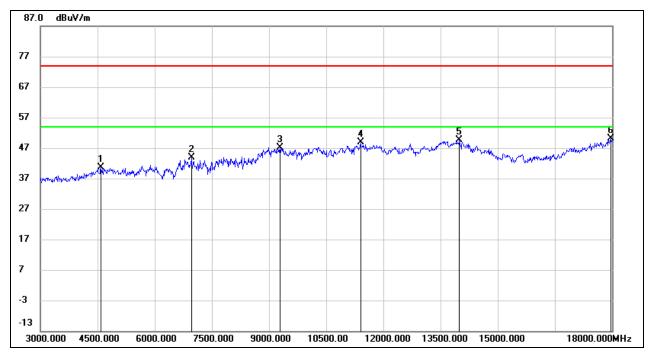
Test Mode:	802.11ax HE20	Channel:	2462
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	40.78	0.14	40.92	74.00	-33.08	peak
2	8910.000	36.61	9.82	46.43	74.00	-27.57	peak
3	10335.000	34.91	12.67	47.58	74.00	-26.42	peak
4	11835.000	32.36	17.51	49.87	74.00	-24.13	peak
5	13980.000	27.55	21.92	49.47	74.00	-24.53	peak
6	17940.000	25.00	25.34	50.34	74.00	-23.66	peak



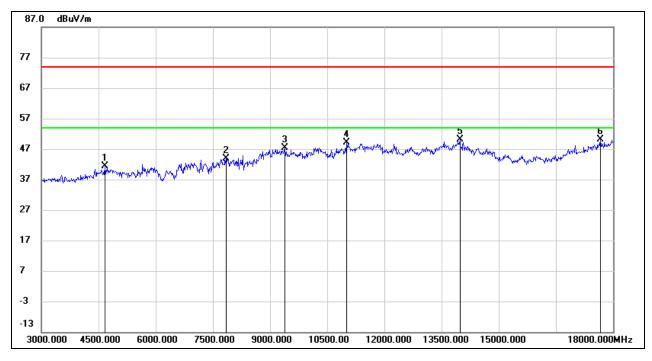
Test Mode:	802.11ax HE40	Channel:	2422
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4590.000	41.63	-1.12	40.51	74.00	-33.49	peak
2	6960.000	37.35	6.50	43.85	74.00	-30.15	peak
3	9285.000	36.56	10.61	47.17	74.00	-26.83	peak
4	11400.000	32.62	16.23	48.85	74.00	-25.15	peak
5	13995.000	27.59	21.95	49.54	74.00	-24.46	peak
6	17970.000	24.50	25.51	50.01	74.00	-23.99	peak



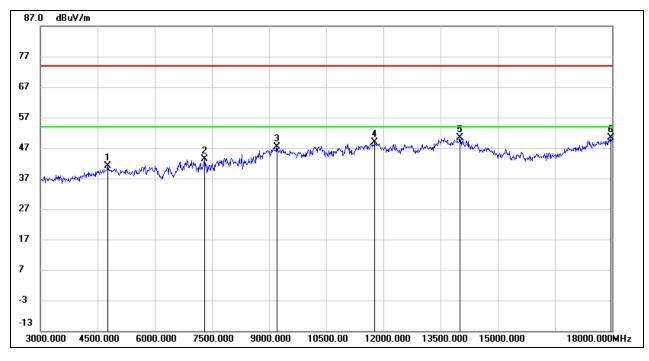
Test Mode:	802.11ax HE40	Channel:	2422
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4665.000	42.15	-0.83	41.32	74.00	-32.68	peak
2	7845.000	37.68	6.32	44.00	74.00	-30.00	peak
3	9390.000	36.82	10.64	47.46	74.00	-26.54	peak
4	11010.000	34.37	14.81	49.18	74.00	-24.82	peak
5	13980.000	28.10	21.92	50.02	74.00	-23.98	peak
6	17670.000	26.37	23.73	50.10	74.00	-23.90	peak



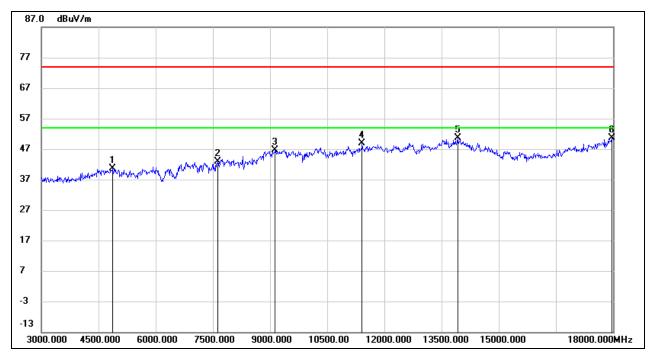
Test Mode:	802.11ax HE40	Channel:	2427
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4770.000	41.48	-0.43	41.05	74.00	-32.95	peak
2	7305.000	36.84	6.47	43.31	74.00	-30.69	peak
3	9210.000	36.74	10.57	47.31	74.00	-26.69	peak
4	11775.000	31.63	17.35	48.98	74.00	-25.02	peak
5	14010.000	28.47	21.93	50.40	74.00	-23.60	peak
6	17970.000	24.95	25.51	50.46	74.00	-23.54	peak



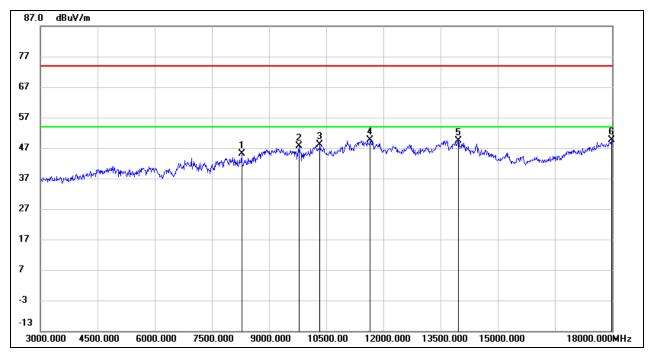
Test Mode:	802.11ax HE40	Channel:	2427
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	40.67	-0.09	40.58	74.00	-33.42	peak
2	7635.000	36.57	6.33	42.90	74.00	-31.10	peak
3	9135.000	36.19	10.55	46.74	74.00	-27.26	peak
4	11415.000	32.49	16.29	48.78	74.00	-25.22	peak
5	13920.000	28.89	21.79	50.68	74.00	-23.32	peak
6	17970.000	25.14	25.51	50.65	74.00	-23.35	peak



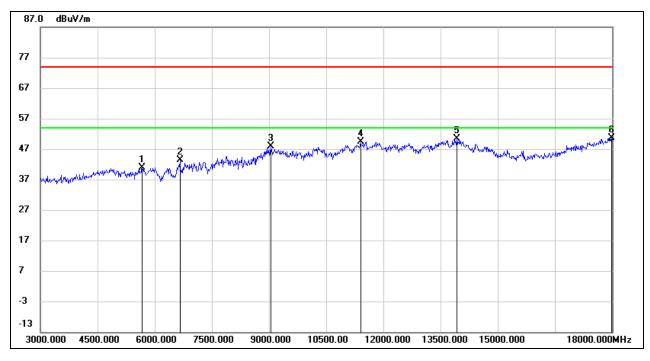
Test Mode:	802.11ax HE40	Channel:	2437
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	8280.000	38.49	6.61	45.10	74.00	-28.90	peak
2	9780.000	36.11	11.43	47.54	74.00	-26.46	peak
3	10335.000	35.56	12.67	48.23	74.00	-25.77	peak
4	11655.000	32.58	17.01	49.59	74.00	-24.41	peak
5	13965.000	27.58	21.89	49.47	74.00	-24.53	peak
6	17985.000	23.95	25.60	49.55	74.00	-24.45	peak



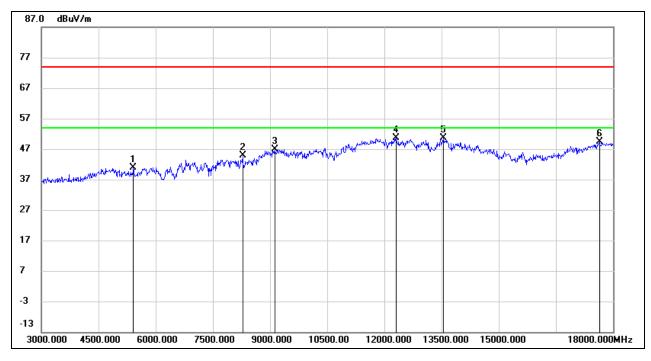
Test Mode:	802.11ax HE40	Channel:	2437
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5670.000	39.59	1.33	40.92	74.00	-33.08	peak
2	6660.000	38.35	5.02	43.37	74.00	-30.63	peak
3	9045.000	37.46	10.50	47.96	74.00	-26.04	peak
4	11400.000	33.24	16.23	49.47	74.00	-24.53	peak
5	13935.000	28.65	21.82	50.47	74.00	-23.53	peak
6	17985.000	25.04	25.60	50.64	74.00	-23.36	peak



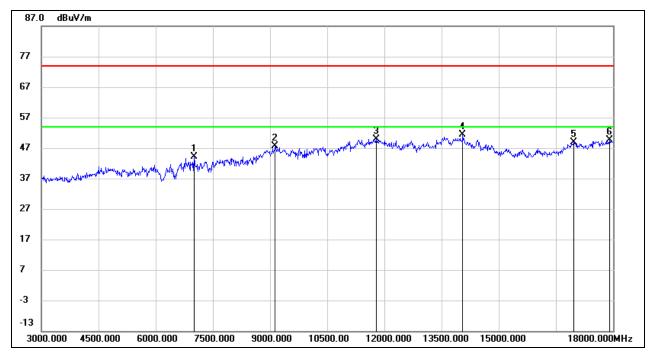
Test Mode:	802.11ax HE40	Channel:	2447
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5415.000	40.12	0.78	40.90	74.00	-33.10	peak
2	8280.000	38.19	6.61	44.80	74.00	-29.20	peak
3	9120.000	36.46	10.53	46.99	74.00	-27.01	peak
4	12315.000	32.79	17.74	50.53	74.00	-23.47	peak
5	13545.000	29.59	20.99	50.58	74.00	-23.42	peak
6	17640.000	25.88	23.56	49.44	74.00	-24.56	peak



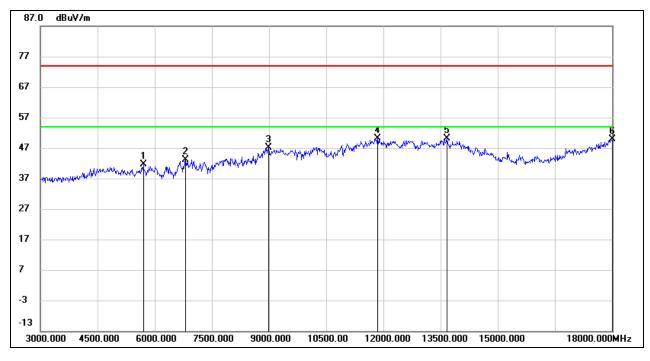
Test Mode:	802.11ax HE40	Channel:	2447
Polarity:	Vertical	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7005.000	37.41	6.69	44.10	74.00	-29.90	peak
2	9135.000	37.10	10.55	47.65	74.00	-26.35	peak
3	11790.000	32.60	17.38	49.98	74.00	-24.02	peak
4	14055.000	29.57	21.73	51.30	74.00	-22.70	peak
5	16965.000	28.27	20.73	49.00	74.00	-25.00	peak
6	17910.000	24.46	25.16	49.62	74.00	-24.38	peak



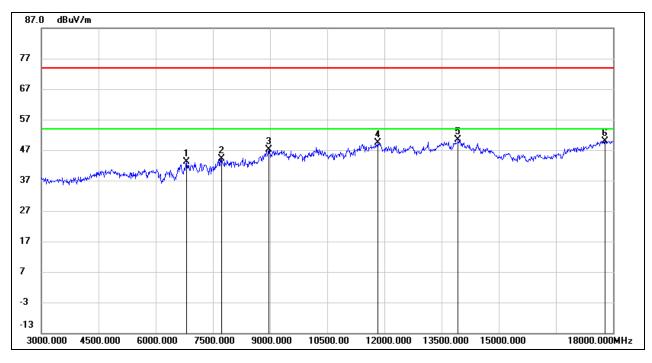
Test Mode:	802.11ax HE40	Channel:	2452
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5700.000	40.25	1.41	41.66	74.00	-32.34	peak
2	6810.000	37.30	5.76	43.06	74.00	-30.94	peak
3	8985.000	36.69	10.37	47.06	74.00	-26.94	peak
4	11850.000	32.56	17.56	50.12	74.00	-23.88	peak
5	13665.000	28.80	21.25	50.05	74.00	-23.95	peak
6	18000.000	24.18	25.69	49.87	74.00	-24.13	peak



Test Mode:	802.11ax HE40	Channel:	2452
Polarity:	Vertical	Test Voltage:	DC 12 V

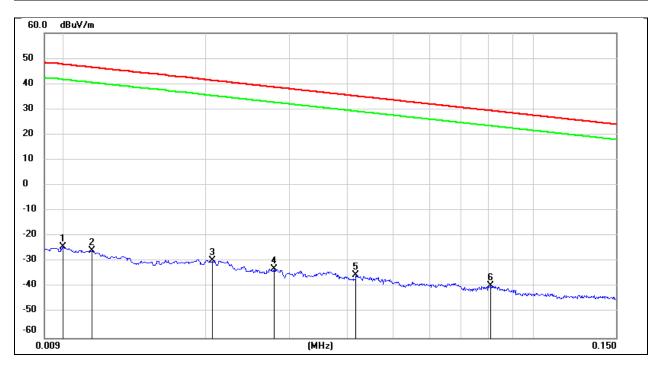


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	6810.000	37.34	5.76	43.10	74.00	-30.90	peak
2	7725.000	37.80	6.32	44.12	74.00	-29.88	peak
3	8970.000	36.84	10.26	47.10	74.00	-26.90	peak
4	11820.000	31.90	17.47	49.37	74.00	-24.63	peak
5	13935.000	28.65	21.82	50.47	74.00	-23.53	peak
6	17790.000	25.52	24.45	49.97	74.00	-24.03	peak



8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

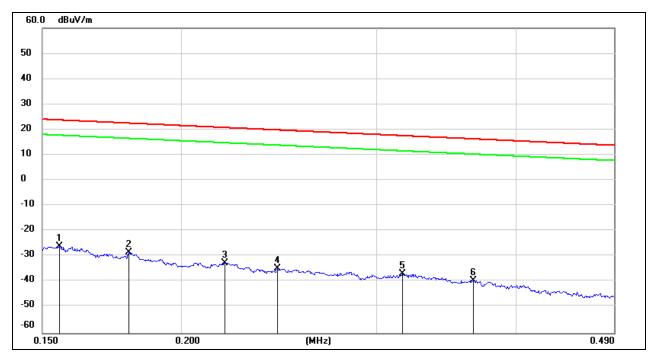
Test Mode:	802.11b	Channel:	2412
Polarity:	FACE ON	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	77.22	-101.40	-24.18	47.60	-75.68	-3.90	-71.78	peak
2	0.0114	75.88	-101.40	-25.52	46.46	-77.02	-5.04	-71.98	peak
3	0.0206	71.92	-101.35	-29.43	41.32	-80.93	-10.18	-70.75	peak
4	0.0279	68.67	-101.38	-32.71	38.69	-84.21	-12.81	-71.40	peak
5	0.0417	66.08	-101.44	-35.36	35.20	-86.86	-16.30	-70.56	peak
6	0.0806	62.18	-101.63	-39.45	29.47	-90.95	-22.03	-68.92	peak



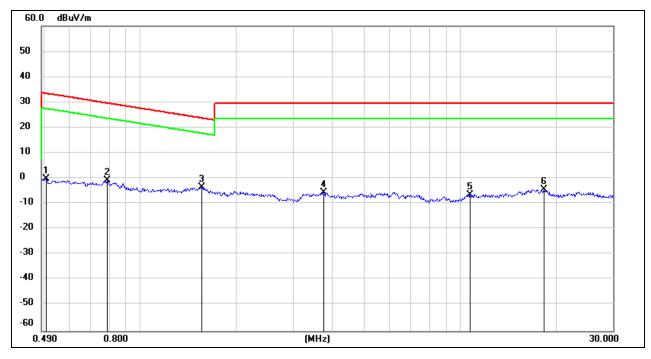
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	FCC	FCC Limit	ISED	ISED	Margin	Remark
				Result		Result	Limit		
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1554	75.77	-101.65	-25.88	23.77	-77.38	-27.73	-49.65	peak
2	0.1794	73.27	-101.68	-28.41	22.53	-79.91	-28.97	-50.94	peak
3	0.2190	69.27	-101.75	-32.48	20.79	-83.98	-30.71	-53.27	peak
4	0.2442	67.03	-101.79	-34.76	19.85	-86.26	-31.65	-54.61	peak
5	0.3163	65.20	-101.87	-36.67	17.60	-88.17	-33.90	-54.27	peak
6	0.3662	62.58	-101.93	-39.35	16.33	-90.85	-35.17	-55.68	peak



Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V

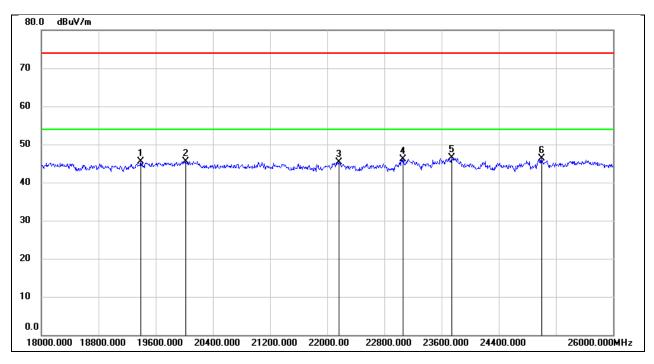


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5080	61.85	-62.07	-0.22	33.49	-51.72	-18.01	-33.71	peak
2	0.7861	61.33	-62.14	-0.81	29.69	-52.31	-21.81	-30.50	peak
3	1.5564	58.68	-62.02	-3.34	23.76	-54.84	-27.74	-27.10	peak
4	3.7406	55.80	-61.40	-5.60	29.54	-57.10	-21.96	-35.14	peak
5	10.7299	54.48	-60.83	-6.35	29.54	-57.85	-21.96	-35.89	peak
6	18.2545	56.43	-60.90	-4.47	29.54	-55.97	-21.96	-34.01	peak



8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

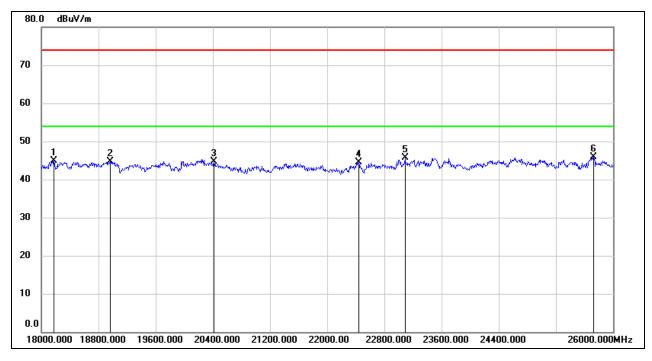
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	19392.000	51.12	-5.57	45.55	74.00	-28.45	peak
2	20016.000	51.06	-5.47	45.59	74.00	-28.41	peak
3	22160.000	49.58	-4.31	45.27	74.00	-28.73	peak
4	23064.000	49.49	-3.42	46.07	74.00	-27.93	peak
5	23744.000	49.65	-3.20	46.45	74.00	-27.55	peak
6	25000.000	48.36	-2.10	46.26	74.00	-27.74	peak



Test Mode:	802.11b	Channel:	2412
Polarity:	Vertical	Test Voltage:	DC 12 V

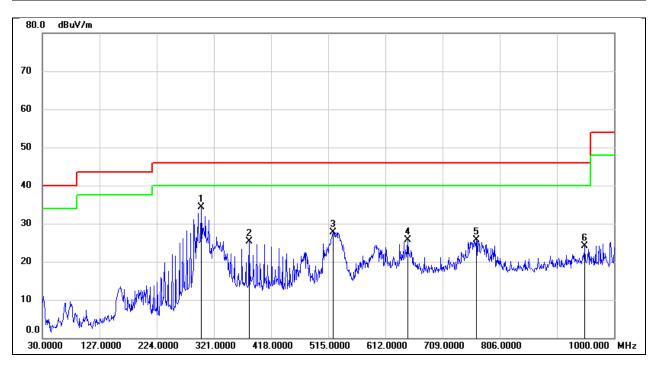


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18176.000	50.40	-5.51	44.89	74.00	-29.11	peak
2	18960.000	50.01	-5.25	44.76	74.00	-29.24	peak
3	20416.000	50.13	-5.45	44.68	74.00	-29.32	peak
4	22440.000	48.38	-3.96	44.42	74.00	-29.58	peak
5	23088.000	49.02	-3.41	45.61	74.00	-28.39	peak
6	25728.000	46.61	-0.72	45.89	74.00	-28.11	peak



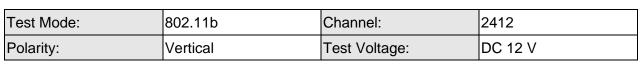
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

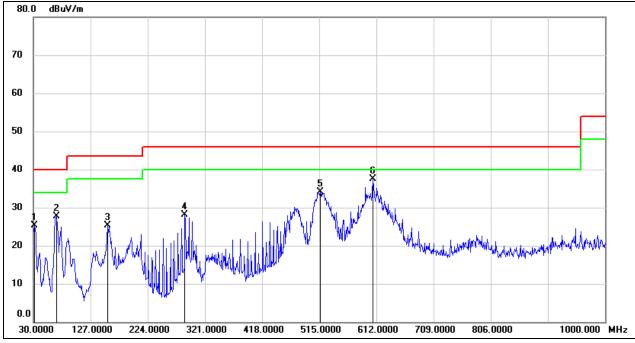
Test Mode:	802.11b	Channel:	2412
Polarity:	Horizontal	Test Voltage:	DC 12 V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	299.6600	49.71	-15.31	34.40	46.00	-11.60	QP
2	381.1400	39.00	-13.62	25.38	46.00	-20.62	QP
3	522.7600	38.78	-11.01	27.77	46.00	-18.23	QP
4	649.8300	34.86	-9.06	25.80	46.00	-20.20	QP
5	766.2300	33.28	-7.64	25.64	46.00	-20.36	QP
6	949.5600	28.52	-4.41	24.11	46.00	-21.89	QP







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	31.9400	44.44	-19.13	25.31	40.00	-14.69	QP
2	68.8000	48.17	-20.56	27.61	40.00	-12.39	QP
3	156.1000	43.35	-17.96	25.39	43.50	-18.11	QP
4	287.0500	44.18	-16.14	28.04	46.00	-17.96	QP
5	516.9400	45.31	-11.13	34.18	46.00	-11.82	QP
6	606.1800	46.87	-9.45	37.42	46.00	-8.58	QP



9. ANTENNA REQUIREMENT

APPLICABLE REQUIREMENTS

Please refer to FCC §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 §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.

RESULTS Complies



10. AC POWER LINE CONDUCTED EMISSION

LIMITS

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

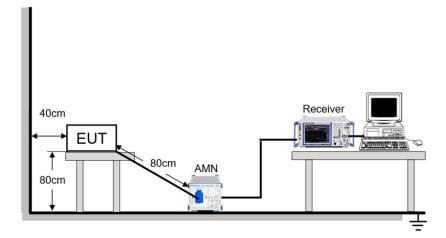
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

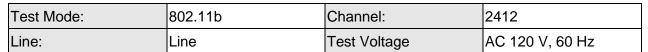
Temperature	24.5 ℃	Relative Humidity	55.5%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

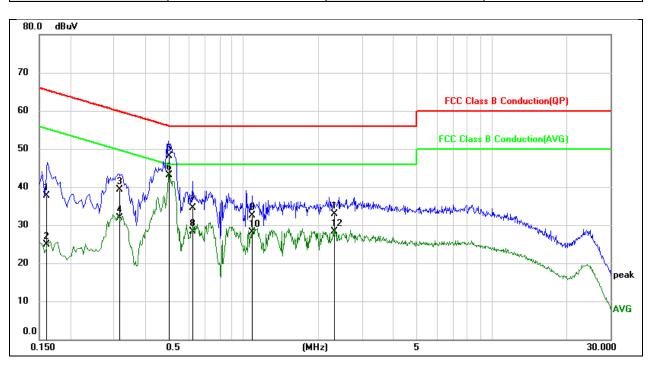


TEST DATE / ENGINEER

Test Date	February 21, 2023	Test By	Wite Chen

TEST RESULTS





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1607	28.16	9.59	37.75	65.43	-27.68	QP
2	0.1607	15.27	9.59	24.86	55.43	-30.57	AVG
3	0.3173	29.64	9.59	39.23	59.78	-20.55	QP
4	0.3173	22.29	9.59	31.88	49.78	-17.90	AVG
5	0.4994	38.54	9.60	48.14	56.01	-7.87	QP
6	0.4994	33.46	9.60	43.06	46.01	-2.95	AVG
7	0.6187	24.99	9.60	34.59	56.00	-21.41	QP
8	0.6187	18.77	9.60	28.37	46.00	-17.63	AVG
9	1.0850	22.90	9.61	32.51	56.00	-23.49	QP
10	1.0850	18.58	9.61	28.19	46.00	-17.81	AVG
11	2.3152	23.27	9.65	32.92	56.00	-23.08	QP
12	2.3152	18.66	9.65	28.31	46.00	-17.69	AVG

Note:

1. Result = Reading + Correct Factor.

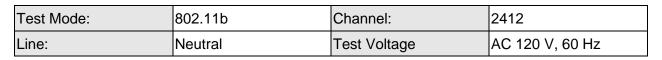
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

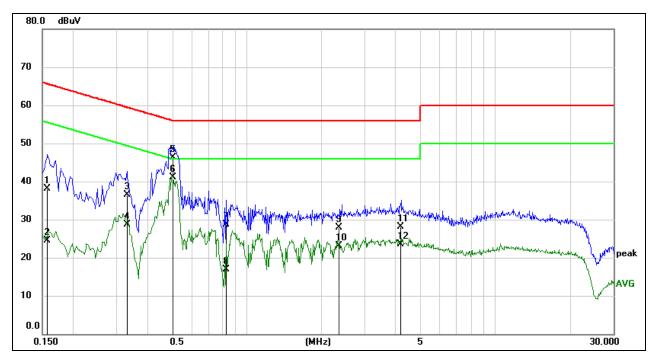
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

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.







No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1575	28.44	9.59	38.03	65.59	-27.56	QP
2	0.1575	14.91	9.59	24.50	55.59	-31.09	AVG
3	0.3277	26.98	9.59	36.57	59.51	-22.94	QP
4	0.3277	19.08	9.59	28.67	49.51	-20.84	AVG
5	0.4995	36.75	9.60	46.35	56.01	-9.66	QP
6	0.4995	31.50	9.60	41.10	46.01	-4.91	AVG
7	0.8265	19.01	9.60	28.61	56.00	-27.39	QP
8	0.8265	7.36	9.60	16.96	46.00	-29.04	AVG
9	2.3607	18.30	9.65	27.95	56.00	-28.05	QP
10	2.3607	13.55	9.65	23.20	46.00	-22.80	AVG
11	4.1404	18.48	9.70	28.18	56.00	-27.82	QP
12	4.1404	13.79	9.70	23.49	46.00	-22.51	AVG

Note:

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

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



11. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	2412	8.040	2408.000	2416.040	0.5	PASS
	Ant3	2412	8.040	2408.000	2416.040	0.5	PASS
	Ant1	2417	7.080	2413.480	2420.560	0.5	PASS
	Ant3	2417	7.080	2413.480	2420.560	0.5	PASS
11B-CDD	Ant1	2437	7.120	2433.440	2440.560	0.5	PASS
TIB-CDD	Ant3	2437	7.120	2433.440	2440.560	0.5	PASS
	Ant1	2457	7.080	2453.480	2460.560	0.5	PASS
	Ant3	2457	7.080	2453.480	2460.560	0.5	PASS
	Ant1	2462	8.040	2458.000	2466.040	0.5	PASS
	Ant3	2462	8.040	2458.000	2466.040	0.5	PASS
	Ant1	2412	15.440	2404.480	2419.920	0.5	PASS
	Ant3	2412	16.320	2403.840	2420.160	0.5	PASS
	Ant1	2417	15.640	2409.240	2424.880	0.5	PASS
	Ant3	2417	16.000	2408.880	2424.880	0.5	PASS
110 000	Ant1	2437	16.280	2428.880	2445.160	0.5	PASS
11G-CDD	Ant3	2437	16.000	2428.880	2444.880	0.5	PASS
	Ant1	2457	16.280	2448.880	2465.160	0.5	PASS
	Ant3	2457	15.080	2449.480	2464.560	0.5	PASS
	Ant1	2462	15.640	2454.240	2469.880	0.5	PASS
	Ant3	2462	16.280	2453.880	2470.160	0.5	PASS
	Ant1	2412	19.000	2402.520	2421.520	0.5	PASS
	Ant3	2412	18.640	2402.680	2421.320	0.5	PASS
	Ant1	2417	18.480	2407.800	2426.280	0.5	PASS
	Ant3	2417	17.120	2408.520	2425.680	0.5	PASS
11AX20-	Ant1	2437	19.040	2427.480	2446.520	0.5	PASS
CDD	Ant3	2437	18.200	2427.960	2446.160	0.5	PASS
	Ant1	2457	18.320	2448.080	2466.400	0.5	PASS
	Ant3	2457	16.880	2448.160	2465.040	0.5	PASS
	Ant1	2462	18.840	2452.520	2471.360	0.5	PASS
	Ant3	2462	17.920	2452.760	2470.680	0.5	PASS
	Ant1	2422	37.360	2403.680	2441.040	0.5	PASS
	Ant3	2422	37.760	2403.120	2440.880	0.5	PASS
	Ant1	2427	37.440	2408.440	2445.880	0.5	PASS
	Ant3	2427	37.840	2408.120	2445.960	0.5	PASS
11AX40-	Ant1	2437	37.680	2418.200	2455.880	0.5	PASS
CDD	Ant3	2437	38.080	2417.960	2456.040	0.5	PASS
	Ant1	2447	38.080	2427.960	2466.040	0.5	PASS
	Ant3	2447	37.520	2428.200	2465.720	0.5	PASS
	Ant1	2452	37.120	2433.440	2470.560	0.5	PASS
	Ant3	2452	37.680	2433.200	2470.880	0.5	PASS



11.1.2. Test Graphs









