



CFR 47 FCC PART 15 SUBPART E ISED RSS-248 ISSUE 3

TEST REPORT

For

Wi-Fi/BT Transceiver

MODEL NUMBER: WCF940M

REPORT NUMBER: 4791524970-RF-11

ISSUE DATE: February 24, 2025

FCC ID:A3LWCF940M IC:649E-WCF940M

Prepared for

FCC: Samsung Electronics Co Ltd IC: SAMSUNG ELECTRONICS CO. LTD.

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.



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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	February 24, 2025	Initial Issue	

Note: This report is based on 4791524970-RF-5 which is issued by UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch. The EUT had already applied for the FCC ID: A3LWCF940M and IC: 649E-WCF940M, the customer wants to move the location of some components without adding or removing any components. And there is no change for the RF part. The new product has the same RF technical construction including circuit diagram, schematic, components and performance with the old one. The only difference lies are the non-RF technical construction. For the RF radiation part, we have considered spot-check in radiated emissions and no worst emissions were found. For the conduction part, we have checked the spot check mode output power and no greater power than tune-up power were found. For the other data, please refer to the original report. In addition, based on customer requirements, we added verification tests for CBP and found no worse data. For the other data, please refer to the original report.



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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
On Time And Duty Cycle	ANSI C63.10-2013, Clause 12.2	None; for reporting purposes only.	Note 1
26dB Emission Bandwidth And 99% Occupied Bandwidth	KDB 789033 D02 v02r01 Section C.1	FCC Part 15.407 (a) (10) RSS-248 Issue 3, Clause 4.4 RSS-Gen Clause 6.7	Note 1
Conducted Output Power	KDB 789033 D02 v02r01 Section E.3.a (Method PM)	FCC 15.407 (a) RSS-248 Issue 3, Clause 4.5	Pass
Power Spectral Density	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a) RSS-248 Issue 3, Clause 4.5	Note 1
In-Band Emissions (Mask)	KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01 J	FCC 15.407 (b) RSS-248 Issue 3, Clause 4.6	Note 1
Frequency Stability	ANSI C63.10-2013, Clause 6.8	FCC 15.407 (g)	Note 1
Contention-based Protocol	KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01 I	FCC 15.407 (d) (6) RSS-248 Issue 3, Clause 4.7	Pass
Radiated Emissions And Band Edge Measurement	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-248 Issue 3, Clause 4.6 RSS-GEN Clause 8.9	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2.	FCC 15.207 RSS-GEN Clause 8.8	Note 1
Antenna Requirement N/A		FCC 47 CFR Part 15.203/ 15.407(a)(1) (2), RSS-Gen Issue 5, Clause 6.8	Note 1

Note:

ISED RSS-248 ISSUE 3> when <Simple Acceptance> decision rule is applied.

^{1.} Please refer the original report 4791524970-RF-5.

^{*}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 E



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: FCC: Samsung Electronics Co Ltd

IC: SAMSUNG ELECTRONICS CO. LTD.

Address: FCC:19 Chapin Rd., Building D, Pine Brook New Jersey, 07058

United States

IC: 129 Samsung-ro, Yeongtong-gu, Suwon-Si Gyeonggi-do

16677 Korea (Republic Of)

Manufacturer Information

Company Name 1: CHEMTRONICS CO., LTD.

Address 1: 35, Buk-ri, Namsa-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do,

Korea

Company Name 2: CHEMTROVINA COMPANYLIMITED

Address 2: Nhon Trach 2 - Loc Khang IZ, Hiep Phuoc Town, Nhon Trach

District,, Dong Nai Province, Vietnam

Company Name 3: SJIT CO., LTD.

Address 3: #54-11, Dongtanhana 1gil, Hwaseong-si, Gyeonggi-Do, Korea

Company Name 4: SJIT VINA Co., Ltd

Address 4: Lot X2, Ho Nai Industrial Zone, Ho Nai 3 Commune, Trang Bom

District, Dong Nai Province, Vietnam

Company Name 5: Chengdu Xuguang Technology Co.,Ltd.

Address 5: No 86 2nd Scction, Park Road, Longquanyi District, Chengdu City,

Sichuan Pravince, P.R. China

Company Name 6: XUGUANG TECHNOLOGY (VIETNAM) COMPANY LIMITED

Address 6: Factory No.4, Lot CN1, An Duong Industrial Park. Hong Phong

Commune, An Duong District, Hai Phong City, Vietnam

EUT Information

EUT Name: Wi-Fi/BT Transceiver

Model: WCF940M Brand: Samsung

Sample Received Date: January 13, 2025

Sample Status: Normal Sample ID: 8150215

Date of Tested: February 6, 2025 to February 24, 2025



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APPLICABLE STANDARDS			
STANDARD TEST RESULTS			
CFR 47 FCC PART 15 SUBPART E	Dago		
ISED RSS-248 ISSUE 3	Pass		

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Operations Manager

Checked By:

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART E ISED RSS-248 ISSUE 3, ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, RSS-GEN Issue 5, RSS-248 Issue 3, KDB414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, KDB987594 D01 U-NII 6GHz General Requirements v03, KDB987594 D02 U-NII 6 GHz EMC Measurement v03.

3. FACILITIES AND ACCREDITATION

I	
	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Declaration of Conformity (DoC) and Certification
	rules
	ISED (Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320 and the test lab Conformity Assessment
	Body Identifier (CABID) is CN0046.
	VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20192 and R-20202
	Shielding Room B, the VCCI registration No. is C-20153 and T-20155

Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

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

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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

4.2. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty	
Conduction emission	3.62 dB	
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB	
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB	
	5.78 dB (1 GHz ~ 18 GHz)	
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.23 dB (18 GHz ~ 26 GHz)	
(menadea : andamenta zimesien) (i en z te re en z)	5.37 dB (26 GHz ~ 40 GHz)	
Duty Cycle	±0.028%	
Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%	
Maximum Conducted Output Power	±0.766 dB	
Maximum Power Spectral Density Level	±1.22 dB	
Frequency Stability	±2.76%	
Dynamic Frequency Selection	±1.01 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)	
Outy Cycle Emission Bandwidth and 99% Occupied Bandwidth Maximum Conducted Output Power Maximum Power Spectral Density Level Frequency Stability Dynamic Frequency Selection Conducted Band-edge Compliance Conducted Unwanted Emissions In Non-restricted	5.37 dB (26 GHz ~ 40 GHz) ±0.028% ±0.0196% ±0.766 dB ±1.22 dB ±2.76% ±1.01 dB ±1.328 dB ±0.746 dB (9 kHz ~ 1 GHz) ±1.328dB (1 GHz ~ 26 GHz)	

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Wi-Fi/BT Transceiver		
Model	WCF940M		

	UNII-5 Band: 5925MHz ~ 6425 MHz UNII-6 Band: 6425MHz ~ 6525 MHz
Operation Frequency:	UNII-7 Band: 6525MHz ~ 6875 MHz
	UNII-8 Band: 6875MHz ~ 7125 MHz
	IEEE 802.11a: OFDM (BPSK, QPSK,16QAM,64QAM)
	IEEE 802.11ax HE20: OFDMA (BPSK,
	QPSK,16QAM,64QAM, 256QAM, 1024QAM)
Type of Modulation:	IEEE 802.11ax HE40: OFDMA (BPSK,
	QPSK,16QAM,64QAM, 256QAM, 1024QAM)
	IEEE 802.11ax HE80: OFDMA (BPSK,
	QPSK,16QAM,64QAM, 256QAM, 1024QAM)
Radio Technology:	IEEE802.11a/ax HE20/HE40/HE80
Normal Test Voltage:	DC 5V

5.2. CHANNEL LIST

UNII-5 (For Bandwidth=20MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
1	5955	33	6115	65	6275	
5*	5975	37*	6135	69*	6295	
9	5995	41	6155	73	6315	
13	6015	45	6175	77	6335	
17	6035	49	6195	81	6355	
21*	6055	53*	6215	85*	6375	
25	6075	57	6235	89	6395	
29	6095	61	6255	93	6415	

UNII-6 (For Bandwidth=20 MHz)						
Channel	Channel Frequency (MHz) Channel Frequency (MHz) Frequency (MHz)					
97	6435	105	6475	113	6515	
101*	6455	109	6495	1	1	



UNII-7 (For Bandwidth=20 MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
117*	6535	141	6655	165*	6775	
121	6555	145	6675	169	6795	
125	6575	149*	6695	173	6815	
129	6595	153	6715	177	6835	
133*	6615	157	6735	181*	6855	
137	6635	161	6755	185	6875	

UNII-8 (For Bandwidth=20 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
189	6895	205	6975	221	7055
193	6915	209	6995	225	7075
197*	6935	213*	7015	229*	7095
201	6955	217	7035	233	7115

^{*}Note: 802.11a mode operates only on marked channels.

	UNII-5 (For Bandwidth=40MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
3	5965	35	6125	67	6285	
11	6005	43	6165	75	6325	
19	6045	51	6205	83	6365	
27	6085	59	6245	91	6405	

UNII-6 (For Bandwidth=40 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
99	6445	107	6485	1	1

UNII-7 (For Bandwidth=40 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
115	6525	139	6645	163	6765
123	6605	147	6685	171	6805
131	6645	155	6725	179	6845

UNII-8 (For Bandwidth=40 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
187	6885	203	6965	219	7045
195	6925	211	7005	227	7085



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UNII-5 (For Bandwidth=80MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
7	5985	39	6145	71	6305
23	6065	55	6225	87	6385

UNII-6 (For Bandwidth=80 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
103	6465	/	/	/	/

UNII-7 (For Bandwidth=80 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
119	6545	151	6705	183	6865
135	6625	167	6785	/	/

UNII-8 (For Bandwidth=80 MHz)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
199	6945	215	7025	/	/



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5.3. TEST CHANNEL CONFIGURATION

UNII-5 Test Channel Configuration					
IEEE Std.	EE Std. Test Channel Number Frequency				
802.11ax	CH 1(Low Channel), CH 45(MID Channel),	5955 MHz, 6175 MHz,			
HE20	CH 93(High Channel)	6415 MHz			

UNII-6 Test Channel Configuration				
IEEE Std. Test Channel Number Frequency				
802.11ax	CH 97(Low Channel), CH 105(MID Channel),	6435 MHz, 6475 MHz,		
HE20	CH 113(High Channel)	6515 MHz		

UNII-7 Test Channel Configuration				
IEEE Std. Test Channel Number Frequency				
802.11ax	CH 117(Low Channel), CH 153(MID Channel),	6535 MHz, 6715 MHz,		
HE20	CH 181(High Channel)	6855 MHz		

UNII-8 Test Channel Configuration							
IEEE Std. Test Channel Number Frequer							
802.11ax	CH 185(Low Channel), CH 213(MID Channel),	6875 MHz, 7015 MHz,					
HE20	CH 233 (High Channel)	7115 MHz					



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5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Band	Antenna 0 Gain Max (dBi)	Antenna 0 Gain Min (dBi)	Antenna 1 Gain Max (dBi)	Antenna 1 Gain Min (dBi)	Antenna Type
UNII 5	-0.32	-1.24	0.08	-0.96	
UNII 6	-0.46	-0.59	-0.69	-0.96	Metal
UNII 7	-0.14	-1.15	-0.78	-1.13	Antenna
UNII 8	-0.14	-1.32	-0.78	-1.68	

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 example:

For UNII 5 output power measurements:

Directional gain= GANT + Array Gain = 0.08 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 UNII 5 power spectral density (PSD) measurements:

Directional gain= Gant + Array Gain =3.09 dBi

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

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

IEE Std. 802.11	Transmit and Receive Mode	Description
802.11ax HE20	⊠2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.

Note: 1. The value of the antenna gain was declared by customer.

2. Only BT & WIFI 2.4G, BT & WIFI 5G, BT & WIFI 6G can transmit simultaneously. (declare by manufacturer)

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5.5. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC Adaptor	Lenovo	ADLX65YCC3D	Input: AC 100-240V, 1.8A, 50-60Hz Output: DC 20V, 3.25A,65.0W Max

I/O CABLES

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

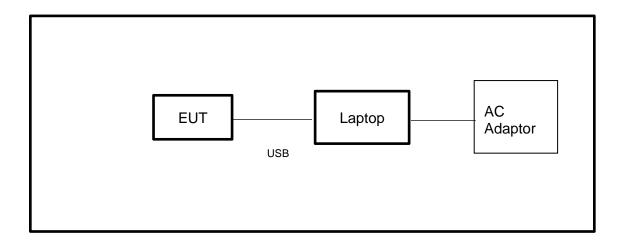
ACCESSORIES

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

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



Note: AC Adaptor only use for AC POWER LINE CONDUCTED EMISSION test



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6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System										
Equipment			nufac	turer	Model	No.	Serial No.	Last (Cal.	Due. Date
Power sensor, Power M	1eter		R&S	3	OSP1	20	100921	Mar.25,	2024	Mar.24,2025
Vector Signal Genera	tor		R&S	;	SMBV1	00A	261637	Sep.28,	2024	Sep.27, 2025
Signal Generator			R&S		SMB10	A00	178553	Sep.28,	2024	Sep.27, 2025
Signal Analyzer			R&S	3	FSV4	Ю	101118	Sep.28,	2024	Sep.27, 2025
					Softwa	re				
Description			N	/lanuf	acturer		Nam	е		Version
For R&S TS 8997 Test	Syste	em	Rol	nde &	Schwar	۲Z	EMC	32		10.60.10
Tonsend RF Test System										
Equipment	Man	ufac	cturer	Mod	del No.	S	erial No.	Last (Cal.	Due. Date
Wireless Connectivity Tester		R&S	0)	СМ	W270	120	1.0002N75- 102	Sep.13,	2024	Sep.12, 2025
PXA Signal Analyzer	Ke	eysi	ght	N9	030A	MY	′55410512	Sep.28,	2024	Sep.27, 2025
MXG Vector Signal Generator	Ke	eysi	ght	N5	182B	MY	′56200284	Sep.28,	2024	Sep.27, 2025
MXG Vector Signal Generator	Ke	eysi	ght	N5	172B	MY	′56200301	Sep.28,	2024	Sep.27, 2025
DC power supply	Ke	eysi	ght	E3	642A	MY	′55159130	Sep.28,	2024	Sep.27, 2025
Temperature & Humidity Chamber	SAI	VMC	DOD	SG-8	80-CC-2		2088	Sep.28,	2024	Sep.27, 2025
Attenuator	А	glie	glient 84		195B	28	14a12853	Sep.28,	2024	Sep.27, 2025
RF Control Unit	То	nscend JS0		806-2	23E	380620666	Mar.25,	2024	Mar.24,2025	
Software										
Description		Mai	nufact	urer			Name			Version
Tonsend SRD Test Sys	tem	Т	onser	nd	JS1	120-3	3 RF Test S	ystem		V3.2.22



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Conducted Emissions							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
EMI Test Receiver	R&S	ESR3	101961	Sep.28, 2024	Sep.27, 2025		
Two-Line V- Network	R&S	ENV216	101983	Sep.28, 2024	Sep.27, 2025		
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.28, 2024	Sep.27, 2025		
	Software						
	Description		Manufacturer	Name	Version		
Test Software	for Conducted	Emissions	Farad	EZ-EMC	Ver. UL-3A1		

	Radiated Emissions								
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date				
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.28, 2024	Sep.27, 2025				
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027				
Preamplifier	HP	8447D	2944A09099	Sep.28, 2024	Sep.27, 2025				
EMI Measurement Receiver	R&S	ESR26	101377	Sep.28, 2024	Sep.27, 2025				
Horn Antenna	TDK	HRN-0118	130939	Apr.29, 2022	Apr.28, 2025				
Preamplifier	TDK	PA-02-0118	TRS-305- 00067	Sep.28, 2024	Sep.27, 2025				
Horn Antenna	Schwarzbeck	BBHA9170	697	Jun 30, 2024	Jun 29, 2027				
Preamplifier	TDK	PA-02-2	TRS-307- 00003	Sep.28, 2024	Sep.27, 2025				
Preamplifier	TDK	PA-02-3	TRS-308- 00002	Sep.28, 2024	Sep.27, 2025				
Loop antenna	Schwarzbeck	1519B	80000	Dec.14, 2021	Dec.13, 2024				
Highpass Filter	Xingbo	XBLBQ- GTA68	211115-2-1	Sep.28, 2024	Sep.27, 2025				
Notch Filter (5905-6445 MHz)	Xingbo	XBLBQ- DZA175	210922-2-1	Sep.28, 2024	Sep.27, 2025				
Notch Filter (6425-6525 MHz)	Xingbo	XBLBQ- DZA176	210922-2-2	Sep.28, 2024	Sep.27, 2025				
Notch Filter (6825-7125 MHz)	Xingbo	XBLBQ- DZA177	210922-2-3	Sep.28, 2024	Sep.27, 2025				
Notch Filter (6525-6875 MHz)	Xingbo	XBLBQ- DZA178	210922-2-4	Sep.28, 2024	Sep.27, 2025				
Software									
[Description		Manufacturer	Name	Version				
Test Software	for Radiated E	missions	Farad	EZ-EMC	Ver. UL-3A1				



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Other Instrument							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date		
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Oct.8, 2024	Oct.7, 2025		
Barometer	Yiyi	Baro	N/A	Oct.10, 2024	Oct.9, 2025		
Attenuator	Agilent	8495B	2814a12853	Sep.28, 2024	Sep.27, 2025		



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7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

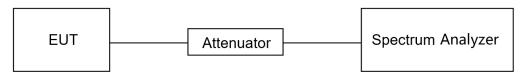
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW ≥ EBW if possible; otherwise, set RBW to the largest available value. Set VBW ≥ RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	1	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/

TEST DATE / ENGINEER

.			
Test Date	/	Test By	/
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TEST RESULTS

Please refer to original report 4791524970-RF-5

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7.2. 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E		
I LOCTITOM I I IMIT		Frequency Range (MHz)
26 dB Emission Bandwidth	The 26 dB bandwidth of the devices shall not exceed 320 MHz for all channels except the 320 MHz.	5.925-7.125 GHz

	ISED RSS-248 ISSUE 3	
I DET ITOM		Frequency Range (MHz)
99 % Occupied Bandwidth	The occupied bandwidth of the device shall not exceed 320 MHz.	5.925-7.125 GHz

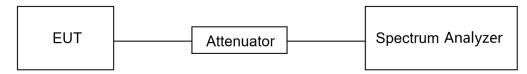
TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth. Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
	For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
IV/RW/	For 26 dB Bandwidth: >3*RBW For 99 % 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 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP





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TEST ENVIRONMENT

Temperature	/	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/

TEST DATE / ENGINEER

Test Date	/	Test By	/
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TEST RESULTS

Please refer to original report 4791524970-RF-5



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7.3. CONDUCTED OUTPUT POWER

LIMITS

	CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)	
	Standard Power Access Point The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	5.925-6.425 GHz 6.525-6.875 GHz	
	☐ Indoor Access Point The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.	5.925-7.125 GHz	
Conducted Output Power	Subordinate Device The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.	5.925-7.125 GHz	
	Client Devices, Operating Under The Control Of A Standard Power Access Point The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.	5.925-6.425 GHz 6.525-6.875 GHz	
		5.925-7.125 GHz	



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	ISED RSS-248 ISSUE 3		
Test Item	Limit	Frequency Range (MHz)	
	☐ Standard Power Access Point The maximum e.i.r.p. over the 5925-6875 MHz frequency band shall not exceed 36 dBm and the maximum e.i.r.p. for a device not enclosed by walls and a ceiling, measured at any elevation angle greater than 30 degrees above the horizon, shall not exceed 21 dBm over the 5925-6875 MHz frequency band	5.925-6.425 GHz 6.525-6.875 GHz	
	Low-Power Indoor Access-Points The maximum e.i.r.p. over the 5925-7125 MHz frequency band shall not exceed 30 dBm	5.925-7.125 GHz	
Conducted Output Power	Subordinate Device The maximum e.i.r.p. over the 5925-7125 MHz frequency band shall not exceed 30 dBm	5.925-7.125 GHz	
	Standard Client Devices The maximum e.i.r.p. over the 5925-6875 MHz frequency band shall not exceed 30 dBm and the maximum power limits shall remain at least 6 dB below the power levels authorized for the associated standard-power access point	5.925-6.425 GHz 6.525-6.875 GHz	
		5.925-7.125 GHz	

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-2 (trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.):

- (a) Measure the duty cycle D of the transmitter output signal.
- (b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- (c) Set RBW = 1 MHz.
- (d) Set VBW \geq 3 MHz.
- (e) Number of points in sweep \geq [2 \times span / RBW]. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- (f) Sweep time = auto.
- (g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (h) Do not use sweep triggering. Allow the sweep to "free run."
- (i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal



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using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

k) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1 / 0.25)] = 6 dB if the duty cycle is 25%.

Method PM (Measurement using an RF average power meter):

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level
- c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25 %).

Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

TEST SETUP



TEST ENVIRONMENT

Temperature	22.3℃	Relative Humidity	51.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

	- 1 10 000-		
Test Date	February 10, 2025	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix A



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7.4. POWER SPECTRAL DENSITY

LIMITS

	CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)	
	Standard Power Access Point The maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.	5.925-6.425 GHz 6.525-6.875 GHz	
	☐ Indoor Access Point The maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.	5.925-7.125 GHz	
Conducted Output Power	Subordinate Device The maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.	5.925-7.125 GHz	
	☐ Client Devices, Operating Under The Control Of A Standard Power Access Point The maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.	5.925-6.425 GHz 6.525-6.875 GHz	
	 ☑ Client Devices, Operating Under The Control Of An Indoor Access Point The maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band. 	5.925-7.125 GHz	

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	ISED RSS-248 ISSUE 3		
Test Item	Limit	Frequency Range (MHz)	
	Standard Power Access Point The maximum e.i.r.p. spectral density shall not exceed 23 dBm/MHz	5.925-6.425 GHz 6.525-6.875 GHz	
	Low-Power Indoor Access-Points The maximum e.i.r.p. spectral density shall not exceed 5 dBm/MHz	5.925-7.125 GHz	
Conducted Output Power	Subordinate Device The maximum e.i.r.p. spectral density shall not exceed 5 dBm/MHz	5.925-7.125 GHz	
	Standard Client Devices The maximum e.i.r.p. spectral density shall not exceed 17 dBm/MHz	5.925-6.425 GHz 6.525-6.875 GHz	
		5.925-7.125 GHz	

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

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

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Average
Sweep time	Auto

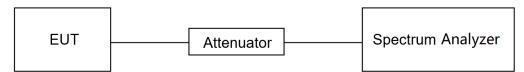
Allow trace to fully stabilize and use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz reference bandwidth.



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TEST SETUP



TEST ENVIRONMENT

Temperature	/	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/

TEST DATE / ENGINEER

Test Date	/	Test By	/

TEST RESULTS

Please refer to original report 4791524970-RF-5



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7.5. IN-BAND EMISSIONS (MASK)

LIMITS

Please refer to CFR 47 FCC §15.407 (b) (7) and RSS-248 Issue 3, Clause 4.2 (b)

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Refer to 987594 D02 U-NII 6GHz EMC Measurement v01r01 J.

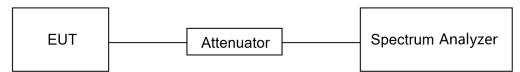
Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.

- 2. Set the reference level of the measuring equipment in accordance with procedure 4.1.5.2 of ANSI C63.10-2013.
- 3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (This will be used to determine the channel edge.)
- 4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
- a) Set the span to encompass the entire 26 dB EBW of the signal.
- b) Set RBW = same RBW used for 26 dB EBW measurement.
- c) Set VBW ≥ 3 X RBW
- d) Number of points in sweep ≥ [2 X span / RBW].
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging)
- g) Trace average at least 100 traces in power averaging (rms) mode.
- h) Use the peak search function on the instrument to find the peak of the spectrum.
- 5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
- 6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
- a. Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
- b. Suppressed by 28 dB at one channel bandwidth from the channel center.
- c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel
- 7. Adjust the span to encompass the entire mask as necessary.
- 8. Clear trace.
- 9. Trace average at least 100 traces in power averaging (rms) mode.
- 10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.



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TEST SETUP



TEST ENVIRONMENT

Temperature	/	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/

TEST DATE / ENGINEER

Test Date	/	Test By	/

TEST RESULTS

Please refer to original report 4791524970-RF-5

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7.6. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

- 1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -10 $^{\circ}$ C \sim 50 $^{\circ}$ C (declared by customer).
- 2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
- 3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

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

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

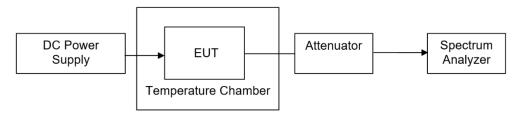
- 4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.
- 5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	20 % ~ 75 %	/
Atmospheric Pressure	100 kPa ~ 102 kPa	/
T _N (Normal Temperature):		T _L (Low Temperature): -10 °C
Temperature	22.4 °C	T _H (High Temperature): 50 °C
Supply Voltage	V. (Normal Valtaga): DC 5 V	V _L (Low Voltage): DC 4.5 V
Supply Voltage	V _N (Normal Voltage): DC 5 V	V _H (High Voltage): DC 5.5 V

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TEST SETUP



TEST ENVIRONMENT

Temperature	/	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/

TEST DATE / ENGINEER

Test Date	/	Test By	/

TEST RESULTS

Please refer to original report 4791524970-RF-5



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7.7. CONTENTION-BASED PROTOCOL

LIMITS

Please refer to CFR 47 FCC §15.407 (d) (6) and RSS-248 Issue 3 Clause 4.7

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

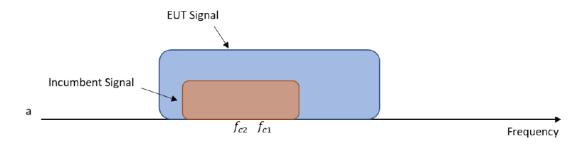
a) Simulating Incumbent Signal

The incumbent signal is assumed to be noise-like. One example of such transmission could be Digital Video Broadcasting (DVB) systems that use Orthogonal Frequency Division Multiplexing (OFDM). Incumbent systems may also use different bandwidths for their transmissions. A 10 MHz-wide additive white Gaussian noise (AWGN) signal is selected to simulate and represent incumbent transmission.

b) Required number of tests

Incumbent and EUT (access point, subordinate or client) signals may occupy different portions of the channel. Depending on the EUT transmission bandwidth and incumbent signal center frequency (simulated by a 10 MHz-wide AWGN signal), the center frequency of the EUT signal ffcc1 may fall within the incumbent's occupied bandwidth (Figure 1.a), or outside of it (Figure 1.b).





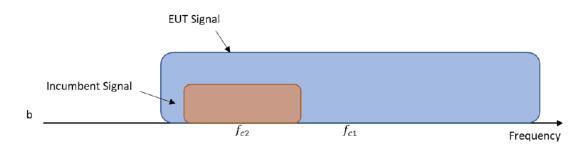


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency ffcc2) tuned to different center frequencies within the UT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed;

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \le BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \le 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \le 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel



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where:

BW_{EUT}: Transmission bandwidth of EUT signal

BW_{Inc}: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

 f_{c1} : Center frequency of EUT transmission

fc2: Center frequency of simulated incumbent signal

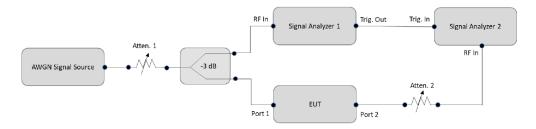
TEST PROCEDURE

To ensure the EUT is capable of detecting co-channel energy, the first step is to configure the EUT to transmit with a constant duty cycle.2 To simulate an incumbent signal, a signal generator (or similar source) that is capable of generating band-limited additive white Gaussian noise (AWGN) is required. Depending on the EUT antenna configuration, the AWGN signal can be provided to the EUT receiver via a conducted method (Figure 2) or a radiated method (Figure 3). Figure 2 shows the conducted test setup where a band-limited AWGN signal is generated at a very low power level and injected into the EUT's antenna port. The AWGN signal power level is then incrementally increased while the EUT transmission is monitored on a signal analyzer 2 to verify if the EUT can sense the AWGN signal and can subsequently cease its transmission. A triggered measurement, as shown in Figure 2, is optional, and assists with determining the time it takes the EUT to cease transmission (or vacate the channel) upon detecting RF energy. If the EUT has only one antenna port, then an AWGN signal source can be connected to the same antenna port.

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- 4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- 5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
- 7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- 10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

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TEST SETUP



TEST ENVIRONMENT

Temperature	24.2 ℃	Relative Humidity	53.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 5 V

TEST DATE / ENGINEER

Test Date	February 15, 2025	Test By	Johnson.Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix B

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8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b) (6).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-248 4.6.

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

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range	Field Strength Limit	Field Stren	gth Limit
(MHz)	(uV/m) at 3 m	(dBuV/m)	at 3 m
	, ,		Peak
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

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

ISED General field strength limits at frequencies below 30 MHz

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

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

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ISED Restricted bands refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.028	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 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
8.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1680 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.8	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

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

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

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

²Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) (6) and ISED RSS-247 4.6.



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For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

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

- 1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
- 2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
- 3. The EUT was placed on a turntable with 80 cm above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
- 5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
- 6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode remeasured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
- 7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
- 8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

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

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



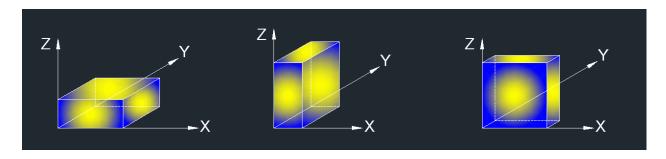
Above 1 GHz

The setting of the spectrum analyzer

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

- 1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.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 7.1. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



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



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For Restricted Bandedge:

Note:

- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. PK=Peak: Peak detector.
- 4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- 7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
- 8. All modes have been tested, but only the worst data was recorded in the report.

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

Note:

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

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

Note:

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

For Radiate Spurious Emission (1 GHz ~ 9 GHz):

- 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 7.1.
- 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
- 9. All modes have been tested, but only the worst data was recorded in the report.

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For Radiate Spurious Emission (9 GHz ~ 18 GHz):

Note:

- 1. Peak Result = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 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. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27 dBm/MHz (68.2 dBuV/m) limit.
- 9. All modes have been tested, but only the worst data was recorded in the report.

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

Note

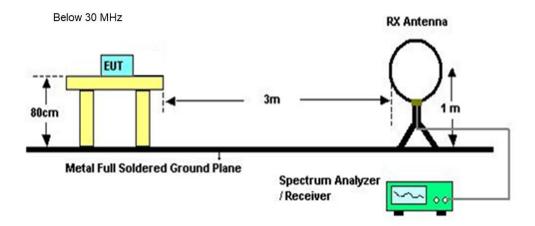
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (26 GHz ~ 40 GHz):

Note:

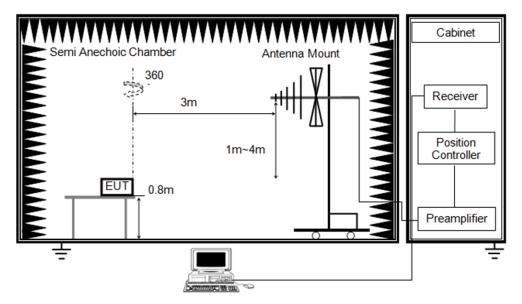
- 1. Measurement = Reading Level + Correct Factor.
- 2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
- 3. Peak: Peak detector.
- 4. All modes have been tested, but only the worst data was recorded in the report.

TEST SETUP

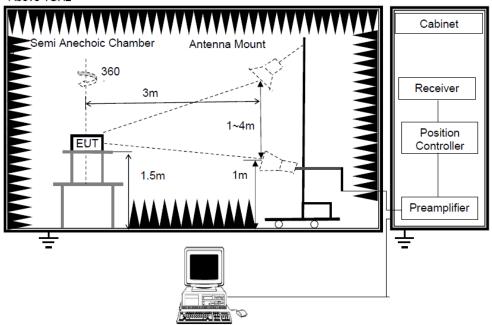




Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	21.5℃	Relative Humidity	59.4%
Atmosphere Pressure	101kPa	Test Voltage	

TEST DATE / ENGINEER

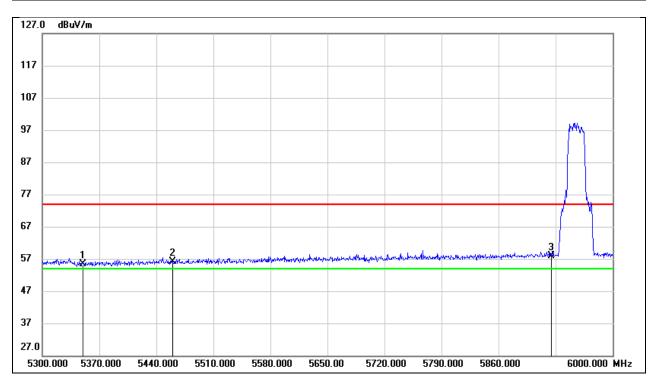
Test Date	February 12, 2025	Test By	Mason Wang
1 Oot Date	1. Oblidaly 12, 2020	1 001 Dy	iviacon vvang

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TEST RESULTS

8.1. RESTRICTED BANDEDGE

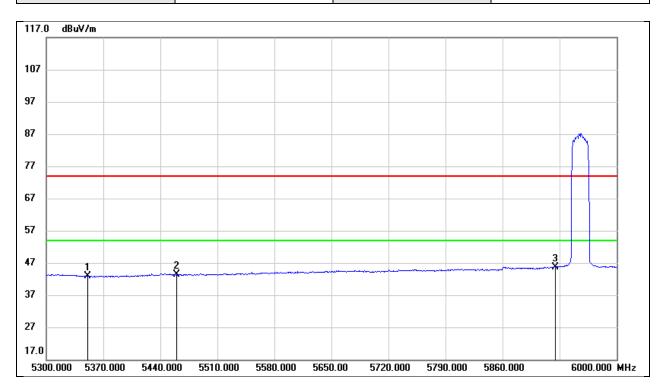
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	16.14	39.29	55.43	74.00	-18.57	peak
2	5460.000	16.47	39.56	56.03	74.00	-17.97	peak
3	5925.000	17.44	40.47	57.91	74.00	-16.09	peak



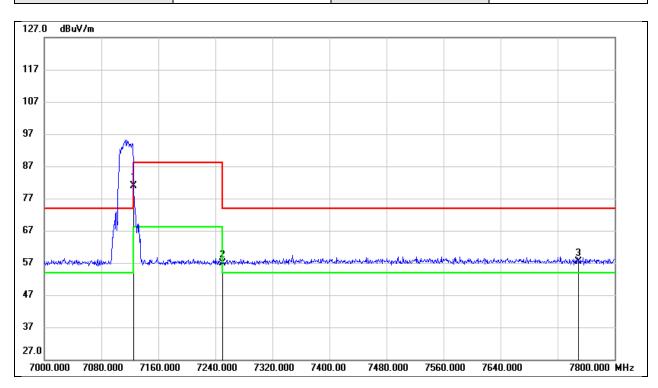
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5350.000	3.52	39.29	42.81	54.00	-11.19	AVG
2	5460.000	3.81	39.56	43.37	54.00	-10.63	AVG
3	5925.000	5.16	40.47	45.63	54.00	-8.37	AVG



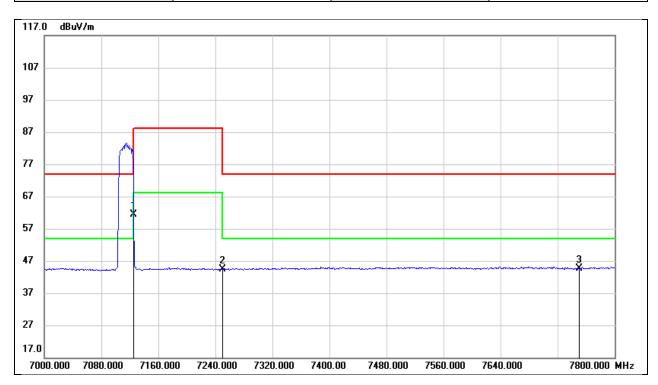
Test Mode:	802.11ax HE20 PK	Frequency(MHz):	7115
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	37.31	43.52	80.83	88.20	-7.37	peak
2	7250.000	13.18	43.79	56.97	74.00	-17.03	peak
3	7750.000	13.31	44.17	57.48	74.00	-16.52	peak



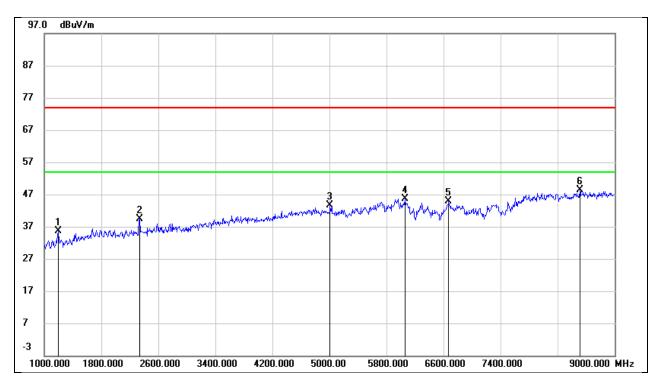
Test Mode:	802.11ax HE20 AV	Frequency(MHz):	7115
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	7125.000	17.95	43.52	61.47	68.20	-6.73	AVG
2	7250.000	0.58	43.79	44.37	54.00	-9.63	AVG
3	7750.000	0.48	44.17	44.65	54.00	-9.35	AVG

8.2. SPURIOUS EMISSIONS(1 GHZ~9 GHZ)

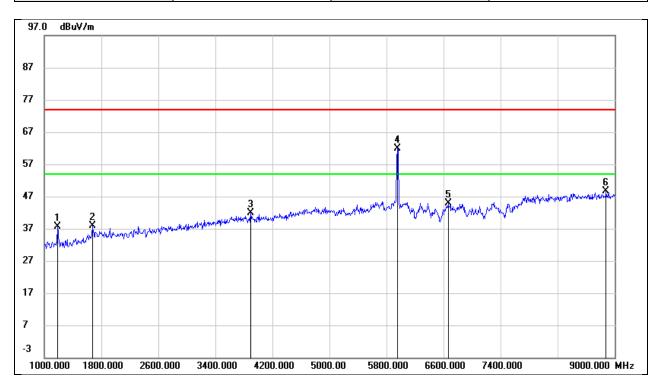
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.000	49.17	-13.47	35.70	74.00	-38.30	peak
2	2336.000	48.13	-8.83	39.30	74.00	-34.70	peak
3	5008.000	41.89	1.81	43.70	74.00	-30.30	peak
4	6056.000	39.87	5.83	45.70	74.00	-28.30	peak
5	6672.000	38.50	6.27	44.77	74.00	-29.23	peak
6	8512.000	39.43	9.03	48.46	74.00	-25.54	peak



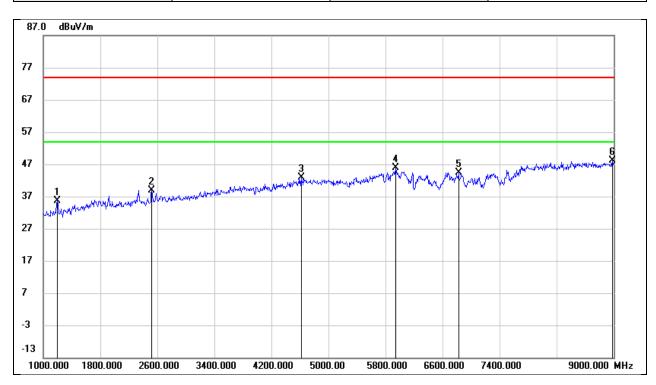
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1184.000	50.59	-13.07	37.52	74.00	-36.48	peak
2	1672.000	48.45	-10.50	37.95	74.00	-36.05	peak
3	3896.000	43.51	-1.53	41.98	74.00	-32.02	peak
4	5955.000	55.48	6.38	61.86	/	/	Fundamental
5	6664.000	37.73	7.09	44.82	74.00	-29.18	peak
6	8880.000	38.25	10.27	48.52	74.00	-25.48	peak



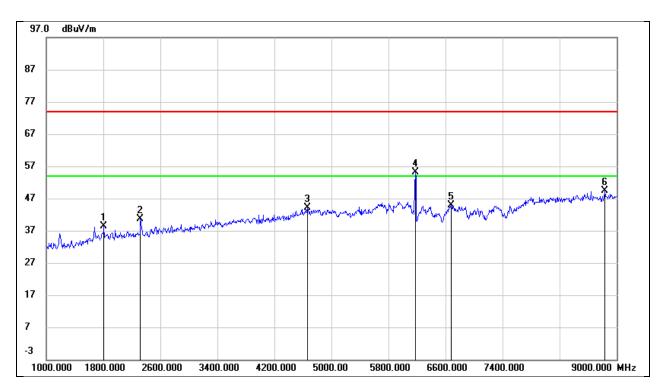
Test Mode:	802.11ax HE20	Frequency(MHz):	6175
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1200.000	49.15	-13.47	35.68	74.00	-38.32	peak
2	2520.000	47.02	-8.12	38.90	74.00	-35.10	peak
3	4616.000	42.73	0.15	42.88	74.00	-31.12	peak
4	5944.000	40.56	5.32	45.88	74.00	-28.12	peak
5	6824.000	37.80	6.59	44.39	74.00	-29.61	peak
6	8984.000	38.01	10.12	48.13	74.00	-25.87	peak



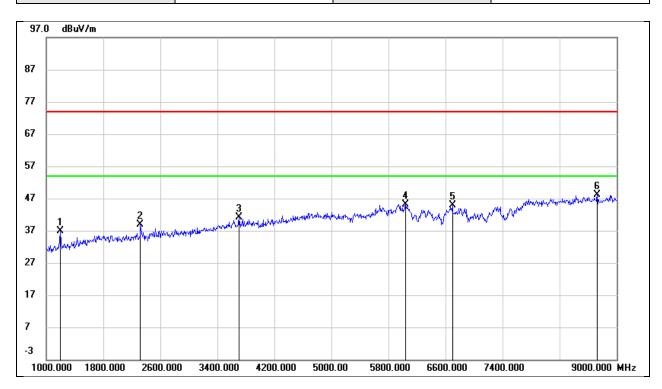
Test Mode:	802.11ax HE20	Frequency(MHz):	6175
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1808.000	47.79	-9.37	38.42	74.00	-35.58	peak
2	2320.000	48.61	-8.05	40.56	74.00	-33.44	peak
3	4664.000	42.72	1.33	44.05	74.00	-29.95	peak
4	6175.000	47.82	7.22	55.04	1	/	Fundamental
5	6680.000	37.70	7.13	44.83	74.00	-29.17	peak
6	8832.000	39.25	10.17	49.42	74.00	-24.58	peak



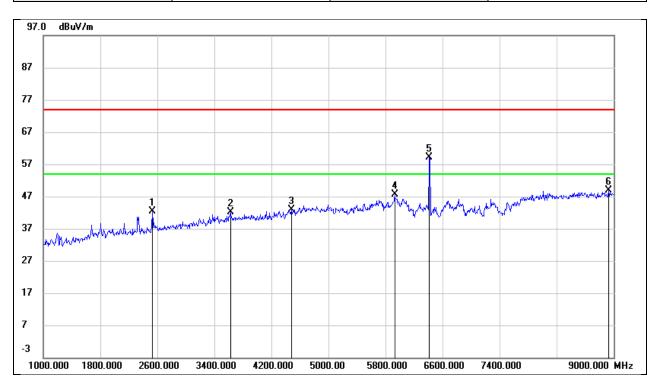
Test Mode:	802.11ax HE20	Frequency(MHz):	6415
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.40	-13.50	36.90	74.00	-37.10	peak
2	2320.000	47.72	-8.89	38.83	74.00	-35.17	peak
3	3704.000	44.05	-3.04	41.01	74.00	-32.99	peak
4	6040.000	39.27	5.78	45.05	74.00	-28.95	peak
5	6696.000	38.55	6.33	44.88	74.00	-29.12	peak
6	8728.000	38.72	9.49	48.21	74.00	-25.79	peak



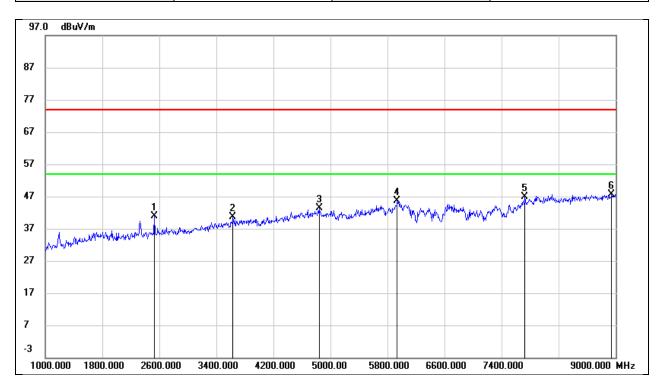
Test Mode:	802.11ax HE20	Frequency(MHz):	6415
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2528.000	49.73	-7.25	42.48	74.00	-31.52	peak
2	3624.000	44.30	-2.21	42.09	74.00	-31.91	peak
3	4480.000	42.48	0.35	42.83	74.00	-31.17	peak
4	5928.000	41.49	6.26	47.75	74.00	-26.25	peak
5	6415.000	52.59	6.65	59.24	1	/	Fundamental
6	8928.000	38.44	10.39	48.83	74.00	-25.17	peak



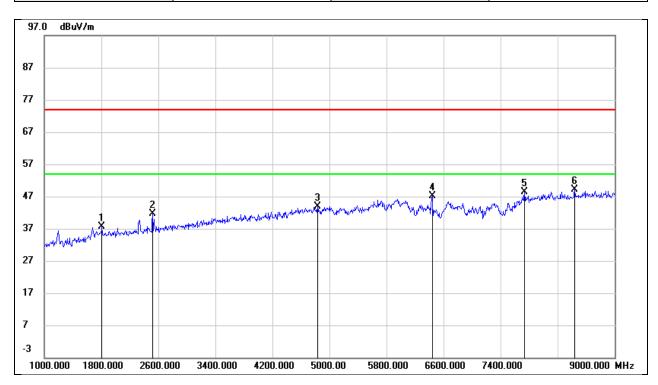
Test Mode:	802.11ax HE20	Frequency(MHz):	6435
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2528.000	48.96	-8.08	40.88	74.00	-33.12	peak
2	3632.000	43.74	-3.21	40.53	74.00	-33.47	peak
3	4840.000	42.33	1.05	43.38	74.00	-30.62	peak
4	5936.000	40.25	5.28	45.53	74.00	-28.47	peak
5	7728.000	38.99	7.92	46.91	74.00	-27.09	peak
6	8944.000	37.60	10.01	47.61	74.00	-26.39	peak



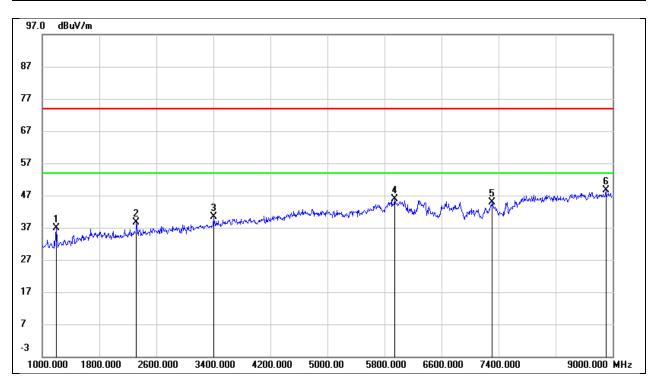
Test Mode:	802.11ax HE20	Frequency(MHz):	6435
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1808.000	47.07	-9.37	37.70	74.00	-36.30	peak
2	2520.000	48.86	-7.30	41.56	74.00	-32.44	peak
3	4832.000	41.86	2.12	43.98	74.00	-30.02	peak
4	6435.000	40.47	6.67	47.14	1	/	Fundamental
5	7736.000	39.83	8.44	48.27	74.00	-25.73	peak
6	8440.000	39.56	9.48	49.04	74.00	-24.96	peak



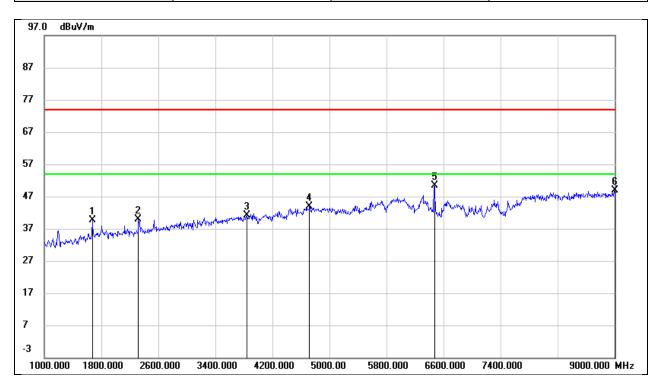
Test Mode:	802.11ax HE20	Frequency(MHz):	6475
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.48	-13.50	36.98	74.00	-37.02	peak
2	2320.000	47.42	-8.89	38.53	74.00	-35.47	peak
3	3400.000	44.52	-4.21	40.31	74.00	-33.69	peak
4	5944.000	40.53	5.32	45.85	74.00	-28.15	peak
5	7312.000	37.93	7.00	44.93	74.00	-29.07	peak
6	8904.000	38.76	9.89	48.65	74.00	-25.35	peak



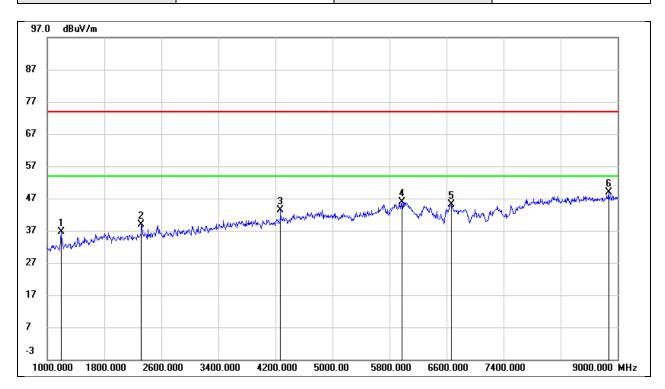
Test Mode:	802.11ax HE20	Frequency(MHz):	6475
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1672.000	50.18	-10.50	39.68	74.00	-34.32	peak
2	2320.000	47.96	-8.05	39.91	74.00	-34.09	peak
3	3840.000	42.67	-1.66	41.01	74.00	-32.99	peak
4	4720.000	42.37	1.58	43.95	74.00	-30.05	peak
5	6475.000	43.70	6.72	50.42	1	/	Fundamental
6	9000.000	38.24	10.57	48.81	74.00	-25.19	peak



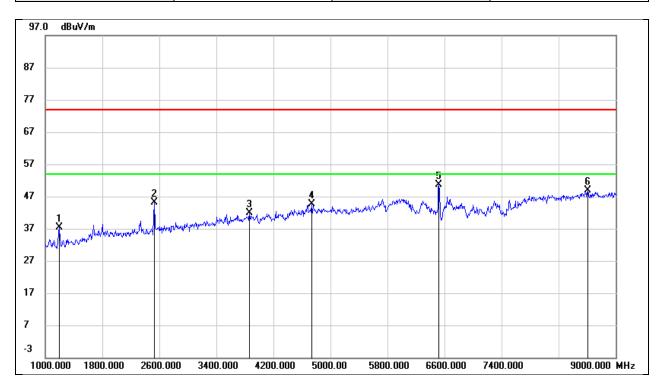
Test Mode:	802.11ax HE20	Frequency(MHz):	6515
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.04	-13.50	36.54	74.00	-37.46	peak
2	2320.000	47.88	-8.89	38.99	74.00	-35.01	peak
3	4272.000	44.87	-1.44	43.43	74.00	-30.57	peak
4	5976.000	40.27	5.50	45.77	74.00	-28.23	peak
5	6664.000	38.92	6.25	45.17	74.00	-28.83	peak
6	8872.000	39.04	9.81	48.85	74.00	-25.15	peak



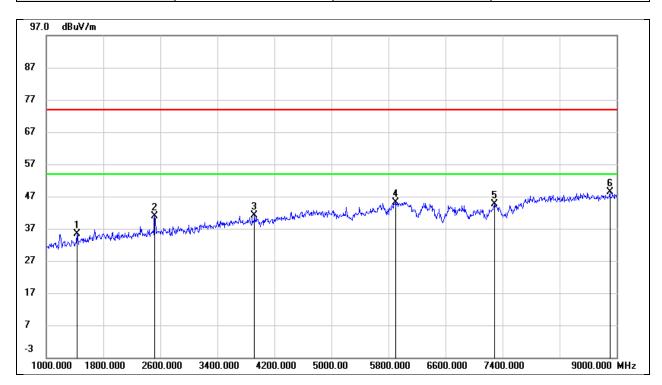
Test Mode:	802.11ax HE20	Frequency(MHz):	6515
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.42	-13.03	37.39	74.00	-36.61	peak
2	2528.000	52.27	-7.25	45.02	74.00	-28.98	peak
3	3864.000	43.37	-1.61	41.76	74.00	-32.24	peak
4	4736.000	43.03	1.66	44.69	74.00	-29.31	peak
5	6515.000	43.91	6.79	50.70	1	/	Fundamental
6	8608.000	38.89	9.88	48.77	74.00	-25.23	peak



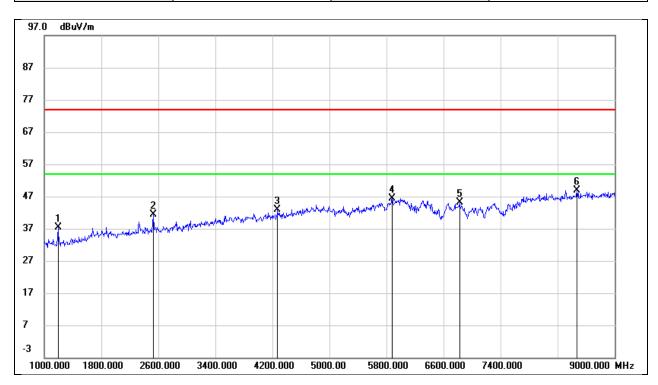
Test Mode:	802.11ax HE20	Frequency(MHz):	6535
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1432.000	47.54	-12.27	35.27	74.00	-38.73	peak
2	2520.000	48.90	-8.12	40.78	74.00	-33.22	peak
3	3920.000	43.68	-2.56	41.12	74.00	-32.88	peak
4	5896.000	40.13	5.04	45.17	74.00	-28.83	peak
5	7288.000	37.63	6.96	44.59	74.00	-29.41	peak
6	8904.000	38.49	9.89	48.38	74.00	-25.62	peak



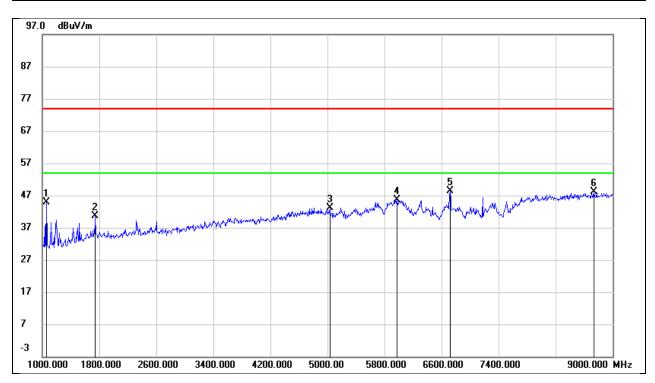
Test Mode:	802.11ax HE20	Frequency(MHz):	6535
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.38	-13.03	37.35	74.00	-36.65	peak
2	2528.000	48.55	-7.25	41.30	74.00	-32.70	peak
3	4272.000	43.25	-0.45	42.80	74.00	-31.20	peak
4	5880.000	40.43	6.01	46.44	74.00	-27.56	peak
5	6824.000	37.75	7.45	45.20	74.00	-28.80	peak
6	8472.000	39.42	9.55	48.97	74.00	-25.03	peak



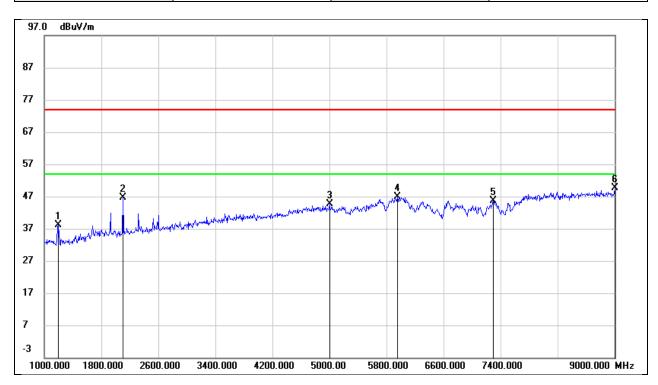
Test Mode:	802.11ax HE20	Frequency(MHz):	6715
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1056.000	58.94	-14.17	44.77	74.00	-29.23	peak
2	1744.000	50.92	-10.35	40.57	74.00	-33.43	peak
3	5032.000	41.34	1.84	43.18	74.00	-30.82	peak
4	5976.000	40.20	5.50	45.70	74.00	-28.30	peak
5	6715.000	42.00	6.39	48.39	1	/	Fundamental
6	8736.000	38.60	9.50	48.10	74.00	-25.90	peak



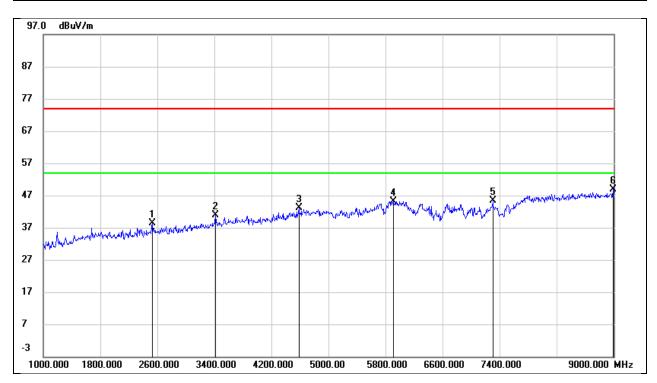
Test Mode:	802.11ax HE20	Frequency(MHz):	6715
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	51.12	-13.03	38.09	74.00	-35.91	peak
2	2104.000	55.43	-8.83	46.60	74.00	-27.40	peak
3	5000.000	41.75	3.00	44.75	74.00	-29.25	peak
4	5952.000	40.40	6.38	46.78	74.00	-27.22	peak
5	7296.000	38.05	7.64	45.69	74.00	-28.31	peak
6	9000.000	38.99	10.57	49.56	74.00	-24.44	peak



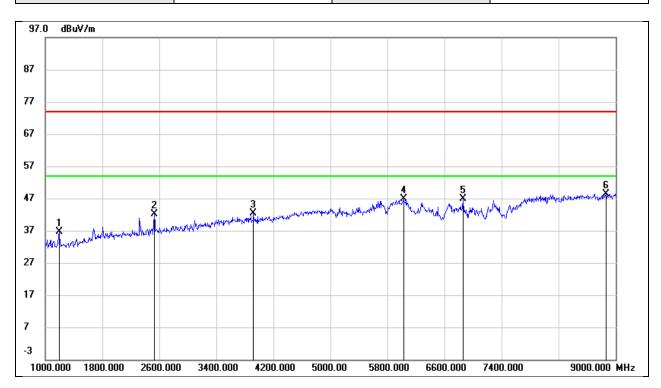
Test Mode:	802.11ax HE20	Frequency(MHz):	6855
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2528.000	46.34	-8.08	38.26	74.00	-35.74	peak
2	3416.000	45.09	-4.14	40.95	74.00	-33.05	peak
3	4584.000	43.23	-0.01	43.22	74.00	-30.78	peak
4	5912.000	40.11	5.14	45.25	74.00	-28.75	peak
5	7304.000	38.37	6.99	45.36	74.00	-28.64	peak
6	8992.000	38.79	10.15	48.94	74.00	-25.06	peak



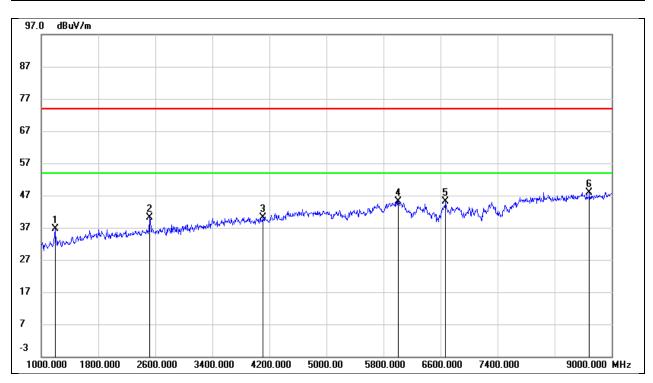
Test Mode:	802.11ax HE20	Frequency(MHz):	6855
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	49.64	-13.03	36.61	74.00	-37.39	peak
2	2528.000	49.49	-7.25	42.24	74.00	-31.76	peak
3	3920.000	43.92	-1.48	42.44	74.00	-31.56	peak
4	6024.000	40.08	6.71	46.79	74.00	-27.21	peak
5	6855.000	39.35	7.44	46.79	1	/	Fundamental
6	8864.000	38.19	10.24	48.43	74.00	-25.57	peak



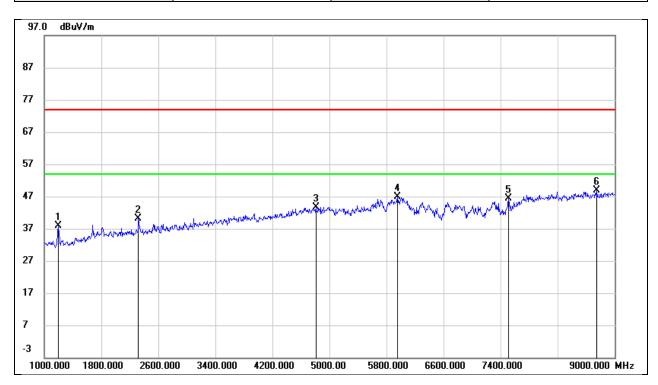
Test Mode:	802.11ax HE20	Frequency(MHz):	6875
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.19	-13.50	36.69	74.00	-37.31	peak
2	2520.000	48.35	-8.12	40.23	74.00	-33.77	peak
3	4104.000	42.26	-2.02	40.24	74.00	-33.76	peak
4	6008.000	39.49	5.66	45.15	74.00	-28.85	peak
5	6672.000	38.88	6.27	45.15	74.00	-28.85	peak
6	8688.000	38.51	9.45	47.96	74.00	-26.04	peak



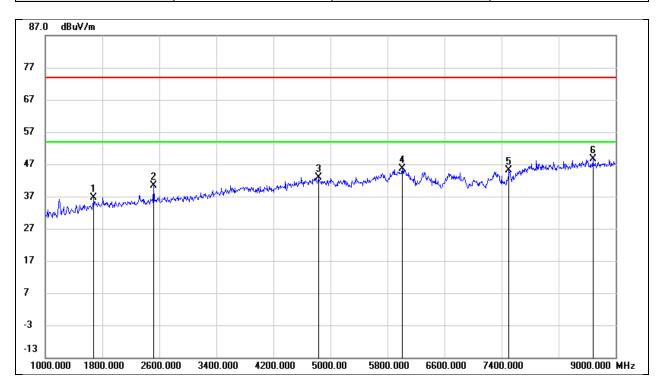
Test Mode:	802.11ax HE20	Frequency(MHz):	6875
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1192.000	50.99	-13.03	37.96	74.00	-36.04	peak
2	2320.000	48.27	-8.05	40.22	74.00	-33.78	peak
3	4808.000	41.59	1.99	43.58	74.00	-30.42	peak
4	5952.000	40.50	6.38	46.88	74.00	-27.12	peak
5	7512.000	38.58	7.92	46.50	74.00	-27.50	peak
6	8752.000	38.77	10.03	48.80	74.00	-25.20	peak



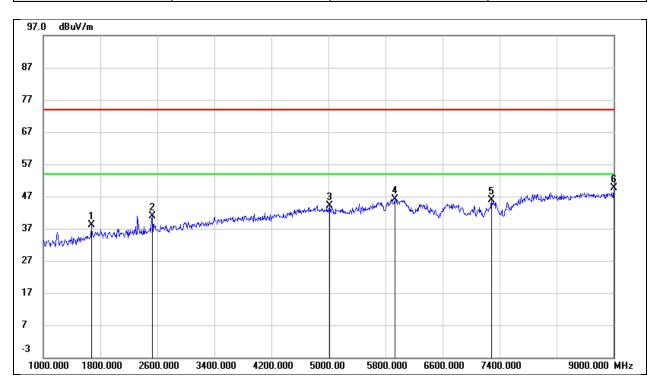
Test Mode:	802.11ax HE20	Frequency(MHz):	7015
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1680.000	47.53	-10.80	36.73	74.00	-37.27	peak
2	2520.000	48.56	-8.12	40.44	74.00	-33.56	peak
3	4832.000	41.80	1.02	42.82	74.00	-31.18	peak
4	6008.000	39.87	5.66	45.53	74.00	-28.47	peak
5	7504.000	37.82	7.41	45.23	74.00	-28.77	peak
6	8680.000	39.22	9.43	48.65	74.00	-25.35	peak



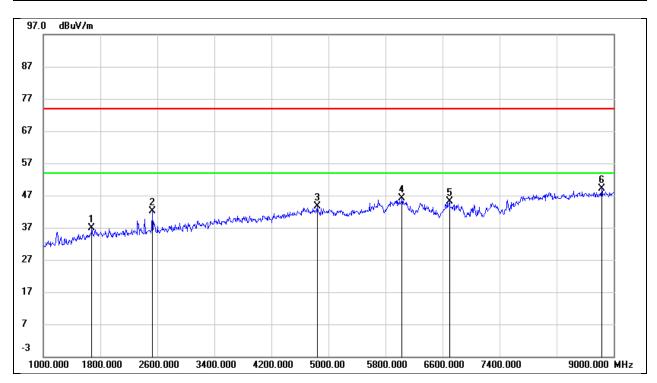
Test Mode:	802.11ax HE20	Frequency(MHz):	7015
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1672.000	48.65	-10.50	38.15	74.00	-35.85	peak
2	2528.000	48.23	-7.25	40.98	74.00	-33.02	peak
3	5016.000	41.14	3.02	44.16	74.00	-29.84	peak
4	5936.000	39.95	6.30	46.25	74.00	-27.75	peak
5	7288.000	38.16	7.63	45.79	74.00	-28.21	peak
6	9000.000	39.01	10.57	49.58	74.00	-24.42	peak



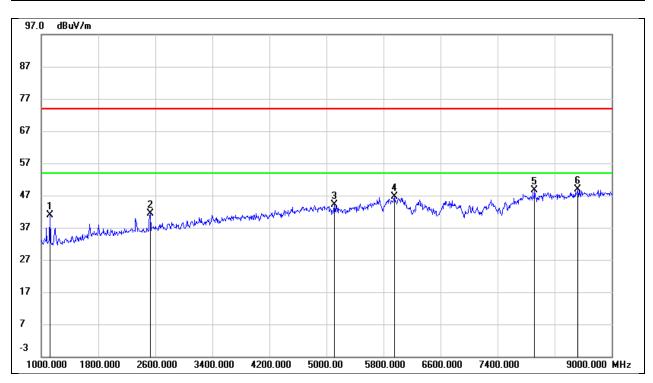
Test Mode:	802.11ax HE20	Frequency(MHz):	7115
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1680.000	47.61	-10.80	36.81	74.00	-37.19	peak
2	2528.000	50.26	-8.08	42.18	74.00	-31.82	peak
3	4840.000	42.57	1.05	43.62	74.00	-30.38	peak
4	6032.000	40.43	5.75	46.18	74.00	-27.82	peak
5	6696.000	38.78	6.33	45.11	74.00	-28.89	peak
6	8832.000	39.44	9.70	49.14	74.00	-24.86	peak



Test Mode:	802.11ax HE20	Frequency(MHz):	7115
Polarity:	Vertical	Test Voltage:	DC 5V

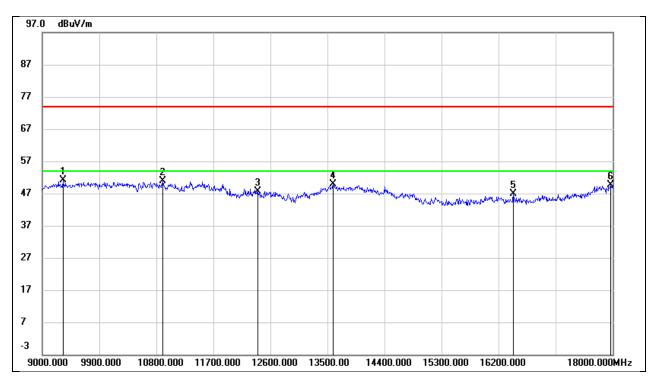


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1120.000	54.07	-13.30	40.77	74.00	-33.23	peak
2	2528.000	48.59	-7.25	41.34	74.00	-32.66	peak
3	5112.000	40.92	3.13	44.05	74.00	-29.95	peak
4	5952.000	40.15	6.38	46.53	74.00	-27.47	peak
5	7920.000	39.83	8.75	48.58	74.00	-25.42	peak
6	8528.000	39.11	9.67	48.78	74.00	-25.22	peak



8.3. SPURIOUS EMISSIONS(9 GHZ~18 GHZ)

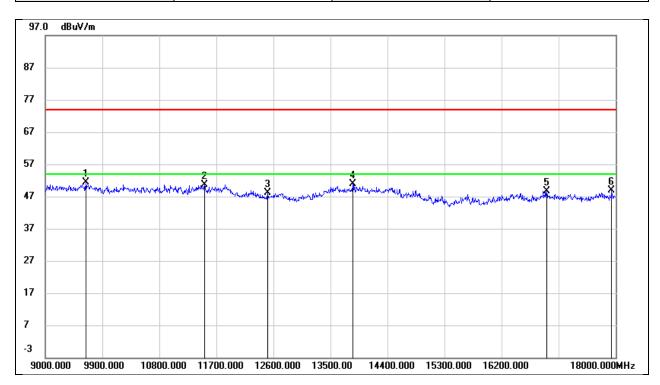
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9324.000	39.16	11.91	51.07	74.00	-22.93	peak
2	10899.000	35.63	15.21	50.84	74.00	-23.16	peak
3	12402.000	28.68	18.88	47.56	74.00	-26.44	peak
4	13590.000	27.38	22.40	49.78	74.00	-24.22	peak
5	16434.000	24.21	22.65	46.86	74.00	-27.14	peak
6	17964.000	20.84	28.86	49.70	74.00	-24.30	peak



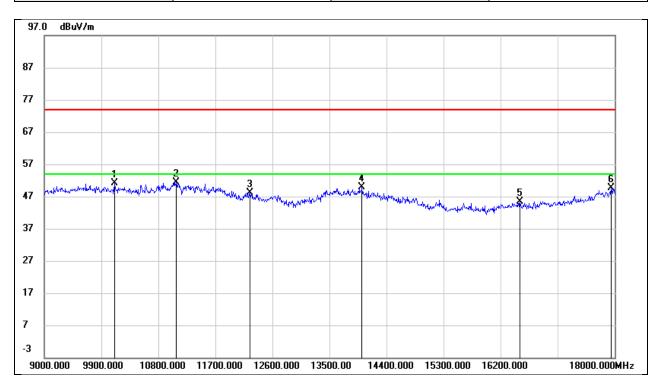
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9639.000	38.11	13.28	51.39	74.00	-22.61	peak
2	11511.000	33.91	16.66	50.57	74.00	-23.43	peak
3	12510.000	30.28	17.90	48.18	74.00	-25.82	peak
4	13851.000	29.72	21.24	50.96	74.00	-23.04	peak
5	16911.000	24.13	24.57	48.70	74.00	-25.30	peak
6	17937.000	22.20	26.68	48.88	74.00	-25.12	peak



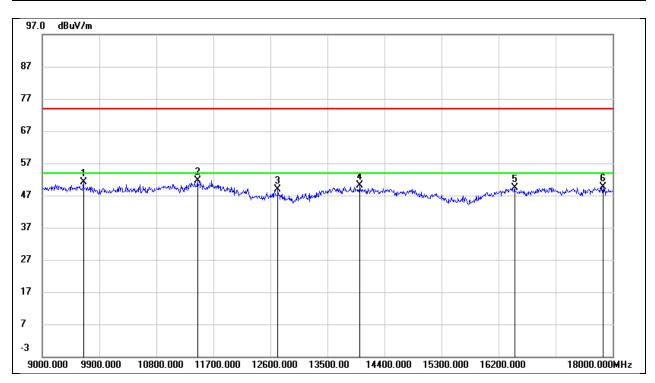
Test Mode:	802.11ax HE20	Frequency(MHz):	6175
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10107.000	37.36	13.69	51.05	74.00	-22.95	peak
2	11079.000	35.53	15.83	51.36	74.00	-22.64	peak
3	12240.000	29.49	18.76	48.25	74.00	-25.75	peak
4	14013.000	26.75	23.20	49.95	74.00	-24.05	peak
5	16506.000	22.64	22.63	45.27	74.00	-28.73	peak
6	17946.000	20.86	28.69	49.55	74.00	-24.45	peak



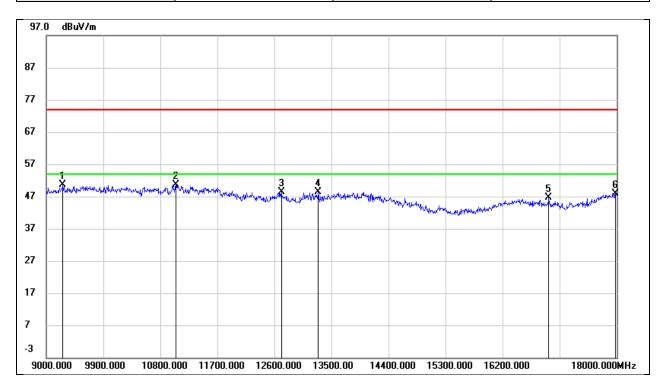
Test Mode:	802.11ax HE20	Frequency(MHz):	6175
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9648.000	37.84	13.29	51.13	74.00	-22.87	peak
2	11448.000	35.21	16.35	51.56	74.00	-22.44	peak
3	12717.000	30.71	18.16	48.87	74.00	-25.13	peak
4	14013.000	28.51	21.63	50.14	74.00	-23.86	peak
5	16452.000	25.01	24.41	49.42	74.00	-24.58	peak
6	17847.000	23.35	26.22	49.57	74.00	-24.43	peak



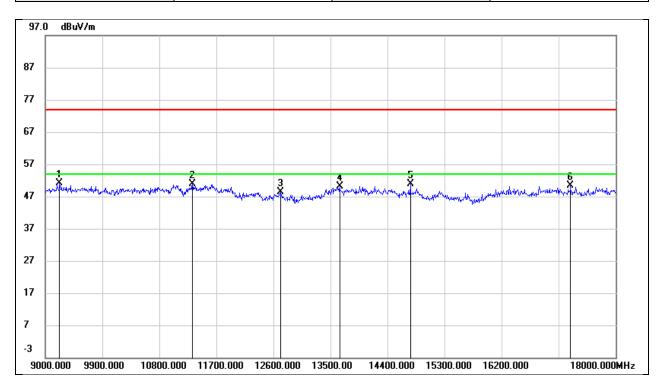
Test Mode:	802.11ax HE20	Frequency(MHz):	6415
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9261.000	38.95	11.67	50.62	74.00	-23.38	peak
2	11043.000	34.95	15.65	50.60	74.00	-23.40	peak
3	12708.000	29.29	19.17	48.46	74.00	-25.54	peak
4	13293.000	27.18	21.32	48.50	74.00	-25.50	peak
5	16929.000	23.63	22.92	46.55	74.00	-27.45	peak
6	17982.000	18.92	29.03	47.95	74.00	-26.05	peak



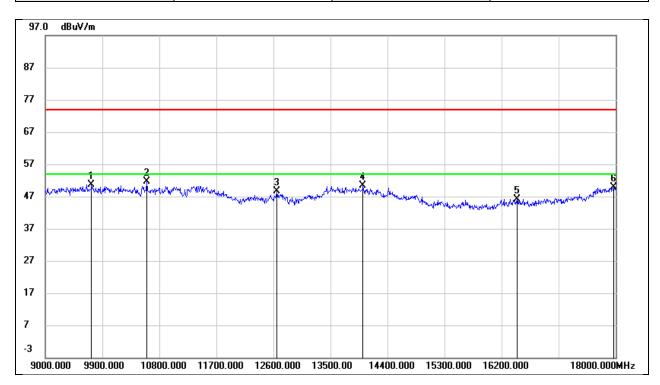
Test Mode:	802.11ax HE20	Frequency(MHz):	6415
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9225.000	39.29	11.75	51.04	74.00	-22.96	peak
2	11322.000	35.00	15.81	50.81	74.00	-23.19	peak
3	12708.000	30.16	18.15	48.31	74.00	-25.69	peak
4	13644.000	29.33	20.82	50.15	74.00	-23.85	peak
5	14760.000	30.53	20.36	50.89	74.00	-23.11	peak
6	17289.000	25.68	24.82	50.50	74.00	-23.50	peak



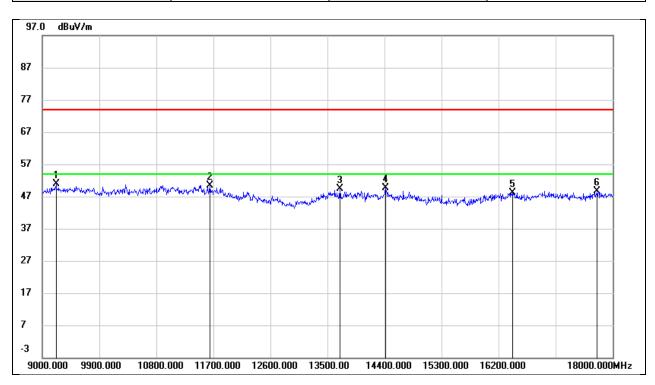
Test Mode:	802.11ax HE20	Frequency(MHz):	6435
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9729.000	37.01	13.71	50.72	74.00	-23.28	peak
2	10602.000	37.14	14.50	51.64	74.00	-22.36	peak
3	12654.000	29.60	19.03	48.63	74.00	-25.37	peak
4	14013.000	27.08	23.20	50.28	74.00	-23.72	peak
5	16443.000	23.61	22.64	46.25	74.00	-27.75	peak
6	17973.000	21.01	28.94	49.95	74.00	-24.05	peak



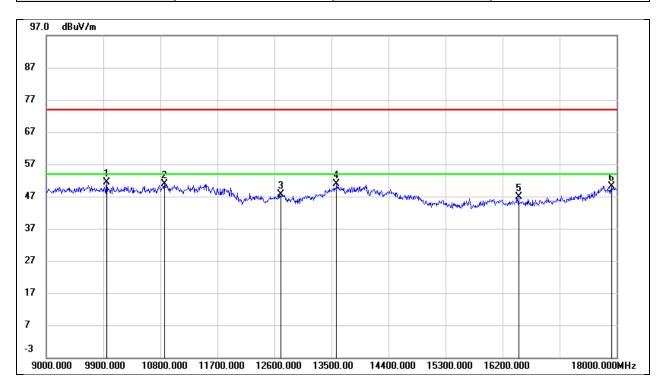
Test Mode:	802.11ax HE20	Frequency(MHz):	6435
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9216.000	39.04	11.72	50.76	74.00	-23.24	peak
2	11646.000	33.34	17.16	50.50	74.00	-23.50	peak
3	13698.000	28.37	20.91	49.28	74.00	-24.72	peak
4	14418.000	28.41	21.11	49.52	74.00	-24.48	peak
5	16416.000	23.61	24.46	48.07	74.00	-25.93	peak
6	17757.000	22.78	25.81	48.59	74.00	-25.41	peak



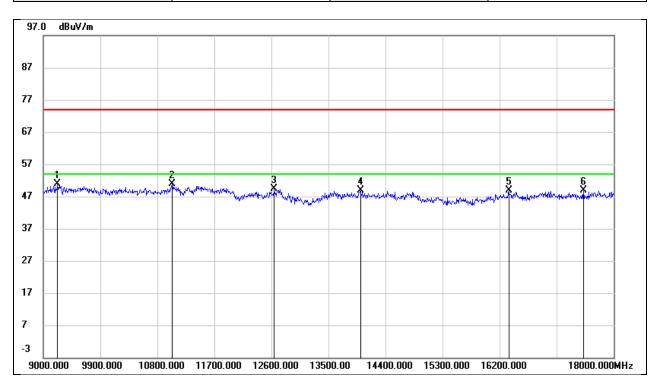
Test Mode:	802.11ax HE20	Frequency(MHz):	6475
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9954.000	37.48	13.79	51.27	74.00	-22.73	peak
2	10863.000	35.76	15.12	50.88	74.00	-23.12	peak
3	12699.000	28.46	19.15	47.61	74.00	-26.39	peak
4	13581.000	28.53	22.38	50.91	74.00	-23.09	peak
5	16452.000	24.16	22.64	46.80	74.00	-27.20	peak
6	17919.000	21.71	28.42	50.13	74.00	-23.87	peak



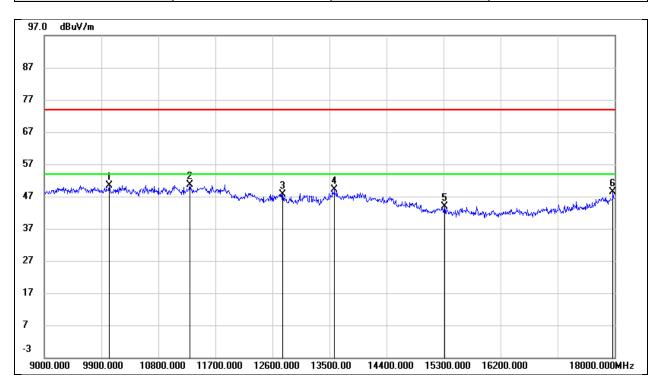
Test Mode:	802.11ax HE20	Frequency(MHz):	6475
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9225.000	39.08	11.75	50.83	74.00	-23.17	peak
2	11034.000	36.23	14.76	50.99	74.00	-23.01	peak
3	12645.000	31.43	18.02	49.45	74.00	-24.55	peak
4	14004.000	27.20	21.64	48.84	74.00	-25.16	peak
5	16344.000	24.24	24.55	48.79	74.00	-25.21	peak
6	17523.000	23.80	24.96	48.76	74.00	-25.24	peak



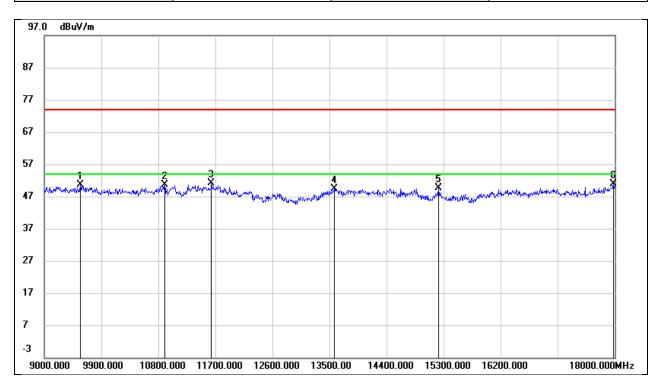
Test Mode:	802.11ax HE20	Frequency(MHz):	6515
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10026.000	36.73	13.75	50.48	74.00	-23.52	peak
2	11295.000	33.78	16.92	50.70	74.00	-23.30	peak
3	12762.000	28.41	19.32	47.73	74.00	-26.27	peak
4	13581.000	26.68	22.38	49.06	74.00	-24.94	peak
5	15318.000	24.86	19.04	43.90	74.00	-30.10	peak
6	17973.000	19.32	28.94	48.26	74.00	-25.74	peak



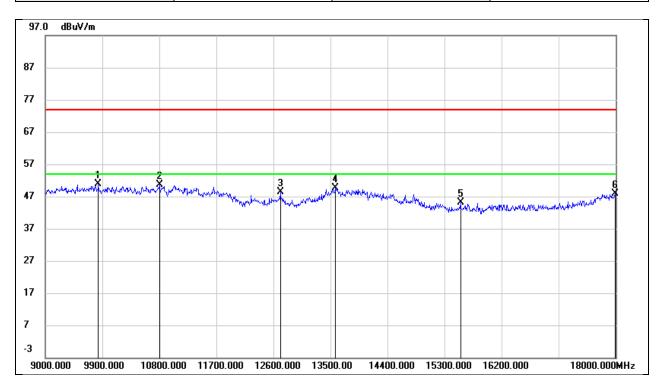
Test Mode:	802.11ax HE20	Frequency(MHz):	6515
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9567.000	37.43	13.10	50.53	74.00	-23.47	peak
2	10899.000	36.02	14.53	50.55	74.00	-23.45	peak
3	11637.000	33.99	17.16	51.15	74.00	-22.85	peak
4	13572.000	28.72	20.68	49.40	74.00	-24.60	peak
5	15219.000	29.71	19.92	49.63	74.00	-24.37	peak
6	17982.000	23.94	26.91	50.85	74.00	-23.15	peak



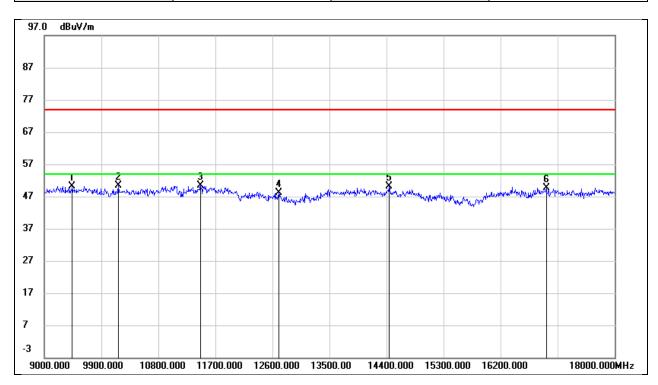
Test Mode:	802.11ax HE20	Frequency(MHz):	6535
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9837.000	37.08	13.87	50.95	74.00	-23.05	peak
2	10800.000	35.64	14.98	50.62	74.00	-23.38	peak
3	12708.000	29.18	19.17	48.35	74.00	-25.65	peak
4	13581.000	27.21	22.38	49.59	74.00	-24.41	peak
5	15552.000	26.15	19.06	45.21	74.00	-28.79	peak
6	17991.000	18.69	29.11	47.80	74.00	-26.20	peak



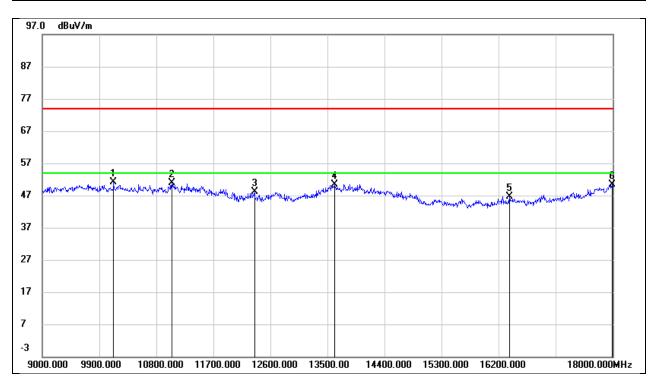
Test Mode:	802.11ax HE20	Frequency(MHz):	6535
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9441.000	37.61	12.49	50.10	74.00	-23.90	peak
2	10170.000	37.25	13.13	50.38	74.00	-23.62	peak
3	11466.000	33.84	16.44	50.28	74.00	-23.72	peak
4	12699.000	29.91	18.13	48.04	74.00	-25.96	peak
5	14445.000	29.06	21.05	50.11	74.00	-23.89	peak
6	16920.000	25.10	24.59	49.69	74.00	-24.31	peak



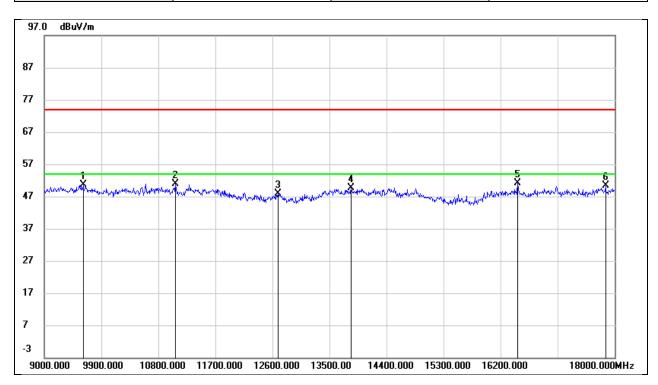
Test Mode:	802.11ax HE20	Frequency(MHz):	6715
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10125.000	37.36	13.69	51.05	74.00	-22.95	peak
2	11043.000	35.15	15.65	50.80	74.00	-23.20	peak
3	12348.000	29.25	18.84	48.09	74.00	-25.91	peak
4	13608.000	27.98	22.43	50.41	74.00	-23.59	peak
5	16371.000	24.01	22.63	46.64	74.00	-27.36	peak
6	17991.000	21.15	29.11	50.26	74.00	-23.74	peak



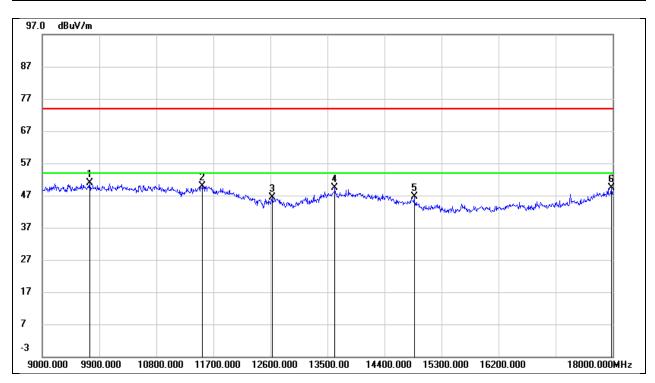
Test Mode:	802.11ax HE20	Frequency(MHz):	6715
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9612.000	37.28	13.26	50.54	74.00	-23.46	peak
2	11070.000	36.03	14.89	50.92	74.00	-23.08	peak
3	12690.000	29.67	18.11	47.78	74.00	-26.22	peak
4	13842.000	28.42	21.21	49.63	74.00	-24.37	peak
5	16470.000	26.69	24.38	51.07	74.00	-22.93	peak
6	17856.000	24.07	26.26	50.33	74.00	-23.67	peak



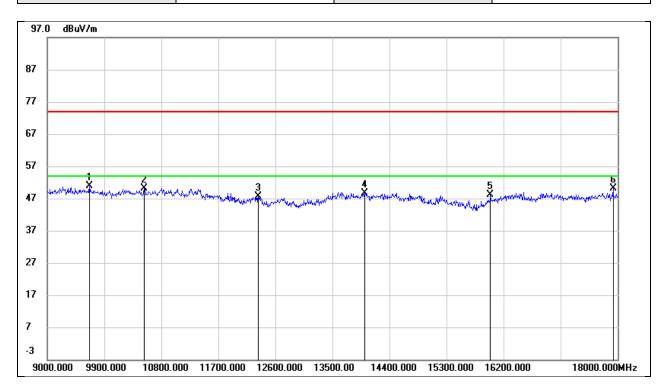
Test Mode:	802.11ax HE20	Frequency(MHz):	6855
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9747.000	37.20	13.76	50.96	74.00	-23.04	peak
2	11529.000	31.63	18.24	49.87	74.00	-24.13	peak
3	12627.000	27.41	18.96	46.37	74.00	-27.63	peak
4	13617.000	26.97	22.44	49.41	74.00	-24.59	peak
5	14868.000	26.96	19.69	46.65	74.00	-27.35	peak
6	17982.000	20.41	29.03	49.44	74.00	-24.56	peak



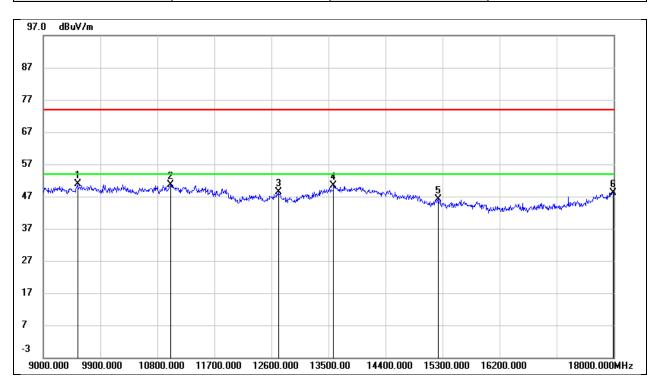
Test Mode:	802.11ax HE20	Frequency(MHz):	6855
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9666.000	37.44	13.32	50.76	74.00	-23.24	peak
2	10530.000	36.06	14.01	50.07	74.00	-23.93	peak
3	12330.000	29.71	17.87	47.58	74.00	-26.42	peak
4	14004.000	27.06	21.64	48.70	74.00	-25.30	peak
5	15993.000	25.37	22.72	48.09	74.00	-25.91	peak
6	17928.000	23.42	26.63	50.05	74.00	-23.95	peak



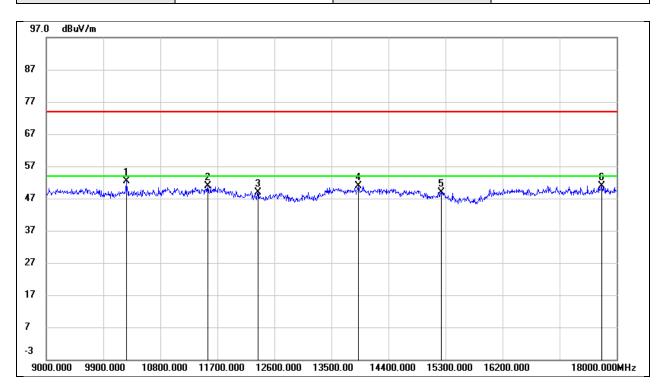
Test Mode:	802.11ax HE20	Frequency(MHz):	6875
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9540.000	37.73	13.04	50.77	74.00	-23.23	peak
2	11007.000	35.06	15.49	50.55	74.00	-23.45	peak
3	12708.000	29.11	19.17	48.28	74.00	-25.72	peak
4	13581.000	27.96	22.38	50.34	74.00	-23.66	peak
5	15228.000	27.22	18.92	46.14	74.00	-27.86	peak
6	17991.000	19.01	29.11	48.12	74.00	-25.88	peak



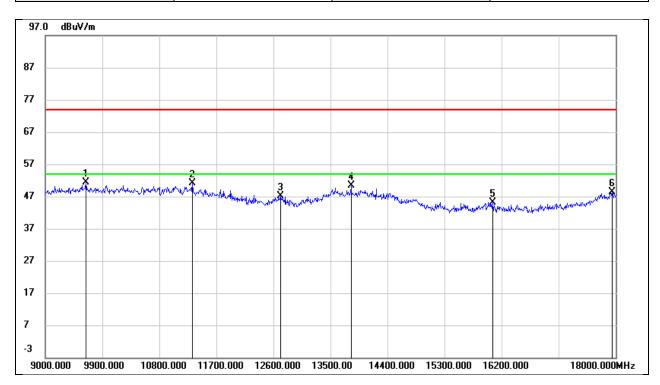
Test Mode:	802.11ax HE20	Frequency(MHz):	6875
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10260.000	39.13	13.28	52.41	74.00	-21.59	peak
2	11547.000	34.10	16.85	50.95	74.00	-23.05	peak
3	12339.000	30.93	17.87	48.80	74.00	-25.20	peak
4	13923.000	29.51	21.43	50.94	74.00	-23.06	peak
5	15228.000	28.98	19.94	48.92	74.00	-25.08	peak
6	17766.000	25.05	25.85	50.90	74.00	-23.10	peak



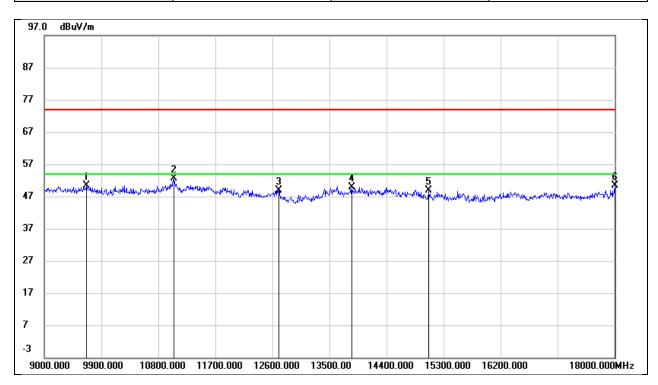
Test Mode:	802.11ax HE20	Frequency(MHz):	7015
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9639.000	38.00	13.48	51.48	74.00	-22.52	peak
2	11322.000	34.09	17.06	51.15	74.00	-22.85	peak
3	12708.000	27.98	19.17	47.15	74.00	-26.85	peak
4	13824.000	27.62	22.80	50.42	74.00	-23.58	peak
5	16065.000	24.15	21.09	45.24	74.00	-28.76	peak
6	17946.000	19.62	28.69	48.31	74.00	-25.69	peak



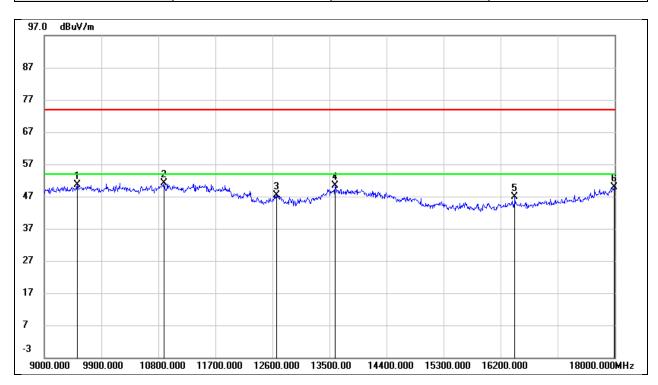
Test Mode:	802.11ax HE20	Frequency(MHz):	7015
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9666.000	37.10	13.32	50.42	74.00	-23.58	peak
2	11043.000	37.73	14.79	52.52	74.00	-21.48	peak
3	12699.000	30.71	18.13	48.84	74.00	-25.16	peak
4	13851.000	28.68	21.24	49.92	74.00	-24.08	peak
5	15066.000	29.08	19.87	48.95	74.00	-25.05	peak
6	18000.000	23.27	27.00	50.27	74.00	-23.73	peak



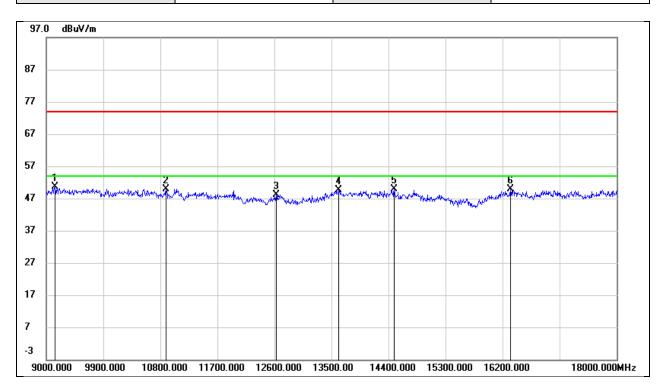
Test Mode:	802.11ax HE20	Frequency(MHz):	7115
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9522.000	37.74	12.94	50.68	74.00	-23.32	peak
2	10890.000	36.05	15.19	51.24	74.00	-22.76	peak
3	12663.000	28.38	19.05	47.43	74.00	-26.57	peak
4	13590.000	27.90	22.40	50.30	74.00	-23.70	peak
5	16425.000	24.18	22.64	46.82	74.00	-27.18	peak
6	17991.000	20.71	29.11	49.82	74.00	-24.18	peak



Test Mode:	802.11ax HE20	Frequency(MHz):	7115
Polarity:	Vertical	Test Voltage:	DC 5V

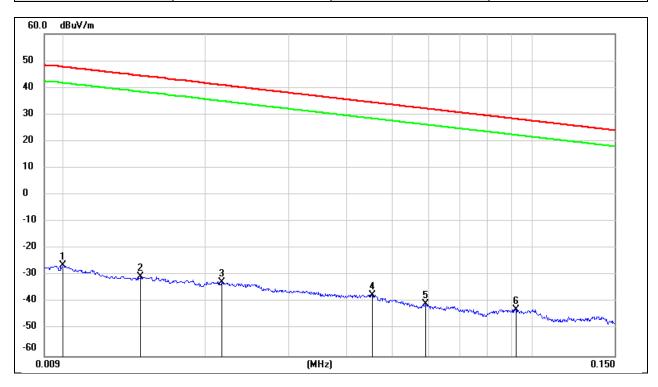


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	9135.000	39.00	11.53	50.53	74.00	-23.47	peak
2	10890.000	35.41	14.52	49.93	74.00	-24.07	peak
3	12627.000	30.26	17.98	48.24	74.00	-25.76	peak
4	13617.000	28.85	20.76	49.61	74.00	-24.39	peak
5	14490.000	28.86	20.99	49.85	74.00	-24.15	peak
6	16326.000	25.39	24.58	49.97	74.00	-24.03	peak

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8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

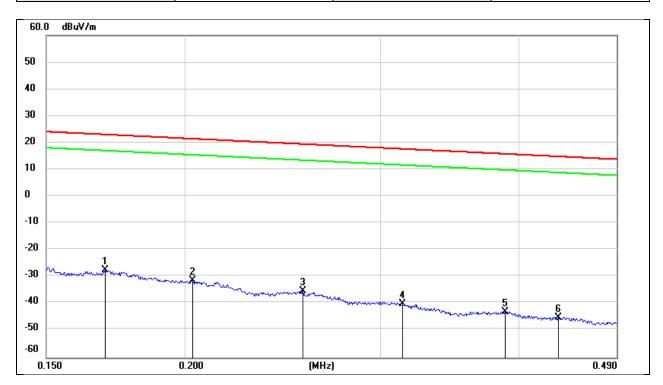
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	75.22	-101.40	-26.18	47.60	-77.68	-3.90	-73.78	peak
2	0.0145	71.05	-101.38	-30.33	44.37	-81.83	-7.13	-74.70	peak
3	0.0216	68.69	-101.35	-32.66	40.91	-84.16	-10.59	-73.57	peak
4	0.0454	64.23	-101.46	-37.23	34.46	-88.73	-17.04	-71.69	peak
5	0.0589	60.81	-101.52	-40.71	32.20	-92.21	-19.30	-72.91	peak
6	0.0922	59.01	-101.74	-42.73	28.31	-94.23	-23.19	-71.04	peak



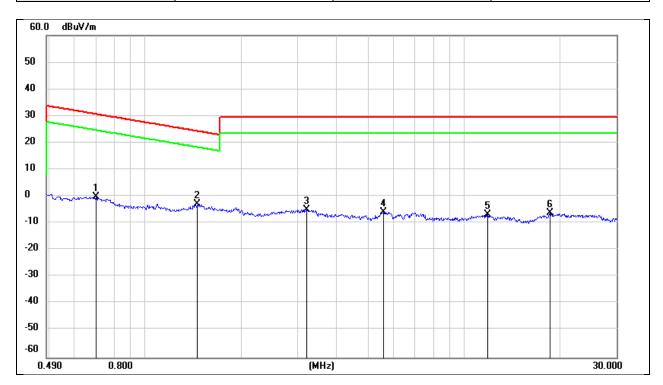
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1695	74.24	-101.67	-27.43	23.03	-78.93	-28.47	-50.46	peak
2	0.2033	70.40	-101.72	-31.32	21.44	-82.82	-30.06	-52.76	peak
3	0.2555	66.57	-101.80	-35.23	19.45	-86.73	-32.05	-54.68	peak
4	0.3144	61.68	-101.87	-40.19	17.65	-91.69	-33.85	-57.84	peak
5	0.3886	58.94	-101.95	-43.01	15.81	-94.51	-35.69	-58.82	peak
6	0.4344	56.98	-101.99	-45.01	14.84	-96.51	-36.66	-59.85	peak



Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V

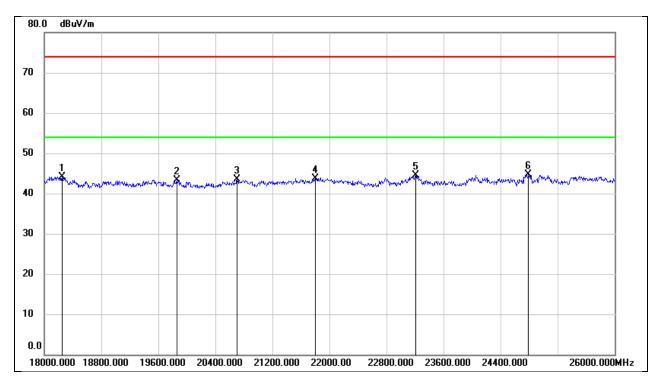


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.7006	61.99	-62.11	-0.12	30.69	-51.62	-20.81	-30.81	peak
2	1.4637	59.29	-62.06	-2.77	24.29	-54.27	-27.21	-27.06	peak
3	3.2048	56.52	-61.53	-5.01	29.54	-56.51	-21.96	-34.55	peak
4	5.5952	55.55	-61.41	-5.86	29.54	-57.36	-21.96	-35.40	peak
5	11.8513	54.06	-60.88	-6.82	29.54	-58.32	-21.96	-36.36	peak
6	18.6091	54.64	-60.89	-6.25	29.54	-57.75	-21.96	-35.79	peak

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8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

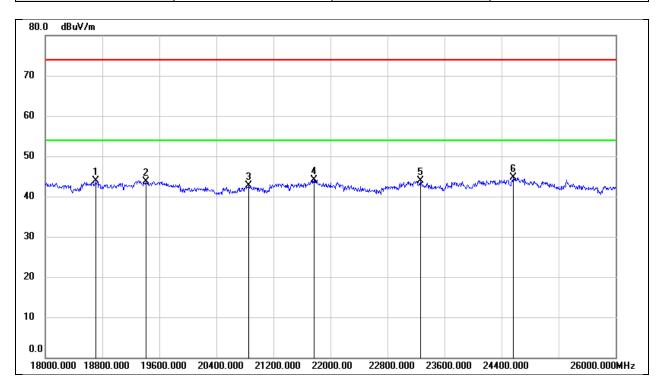
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18248.000	49.68	-5.56	44.12	74.00	-29.88	peak
2	19856.000	48.73	-5.33	43.40	74.00	-30.60	peak
3	20704.000	48.62	-5.16	43.46	74.00	-30.54	peak
4	21800.000	48.04	-4.36	43.68	74.00	-30.32	peak
5	23208.000	47.94	-3.38	44.56	74.00	-29.44	peak
6	24792.000	46.98	-2.28	44.70	74.00	-29.30	peak



Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	DC 5V

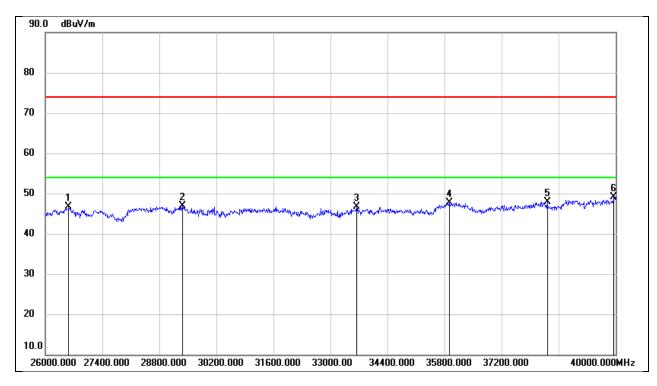


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18712.000	49.40	-5.40	44.00	74.00	-30.00	peak
2	19416.000	49.24	-5.55	43.69	74.00	-30.31	peak
3	20856.000	47.64	-5.01	42.63	74.00	-31.37	peak
4	21768.000	48.46	-4.34	44.12	74.00	-29.88	peak
5	23264.000	47.26	-3.36	43.90	74.00	-30.10	peak
6	24568.000	47.10	-2.33	44.77	74.00	-29.23	peak

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8.6. SPURIOUS EMISSIONS(26 GHZ~40 GHZ)

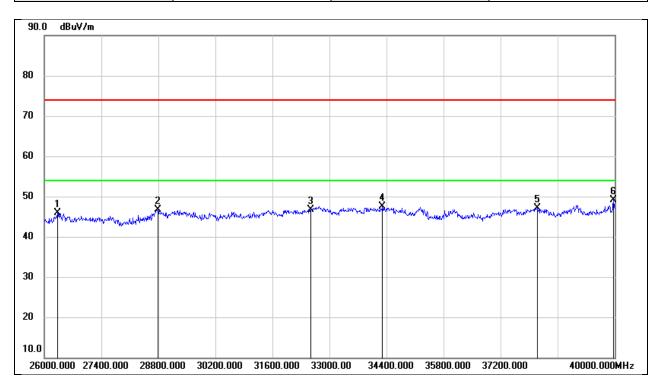
Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26574.000	51.54	-4.78	46.76	74.00	-27.24	peak
2	29374.000	47.68	-0.87	46.81	74.00	-27.19	peak
3	33644.000	46.31	0.42	46.73	74.00	-27.27	peak
4	35912.000	43.80	3.85	47.65	74.00	-26.35	peak
5	38320.000	44.06	3.77	47.83	74.00	-26.17	peak
6	39958.000	44.08	5.12	49.20	74.00	-24.80	peak



Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	DC 5V

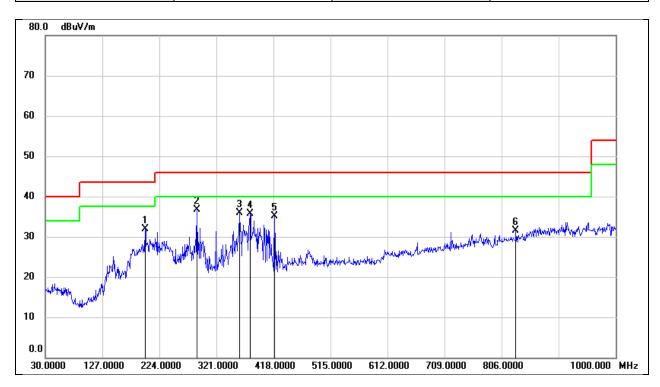


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	26322.000	51.12	-5.18	45.94	74.00	-28.06	peak
2	28786.000	47.27	-0.64	46.63	74.00	-27.37	peak
3	32538.000	48.12	-1.47	46.65	74.00	-27.35	peak
4	34302.000	46.45	1.10	47.55	74.00	-26.45	peak
5	38096.000	43.57	3.49	47.06	74.00	-26.94	peak
6	39972.000	43.95	5.13	49.08	74.00	-24.92	peak

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8.7. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Horizontal	Test Voltage:	DC 5V

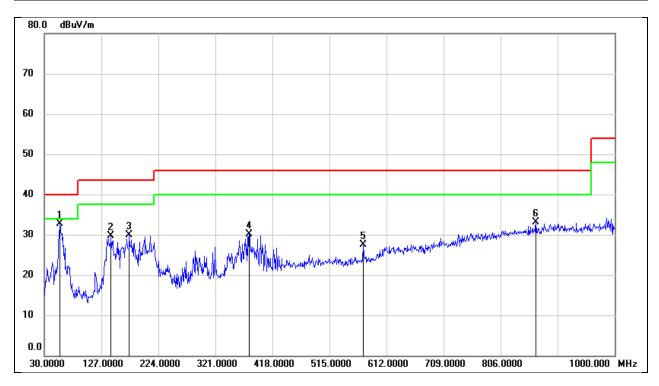


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	199.7500	44.29	-12.29	32.00	43.50	-11.50	QP
2	288.0200	48.86	-12.23	36.63	46.00	-9.37	QP
3	360.7700	45.35	-9.51	35.84	46.00	-10.16	QP
4	378.2300	45.35	-9.63	35.72	46.00	-10.28	QP
5	419.9400	44.25	-9.09	35.16	46.00	-10.84	QP
6	830.2500	33.41	-1.89	31.52	46.00	-14.48	QP



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Test Mode:	802.11ax HE20	Frequency(MHz):	5955
Polarity:	Vertical	Test Voltage:	DC 5V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	56.1900	47.68	-15.00	32.68	40.00	-7.32	QP
2	143.4900	43.58	-13.81	29.77	43.50	-13.73	QP
3	174.5300	41.81	-11.97	29.84	43.50	-13.66	QP
4	378.2300	39.66	-9.63	30.03	46.00	-15.97	QP
5	572.2300	33.99	-6.44	27.55	46.00	-18.45	QP
6	866.1400	34.01	-0.97	33.04	46.00	-12.96	QP

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9. 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

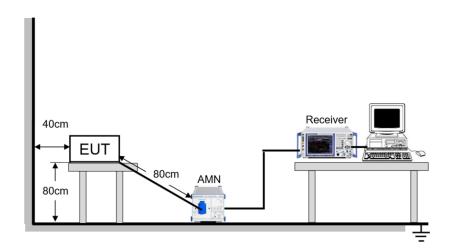
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

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	/	Relative Humidity	/
Atmosphere Pressure	/	Test Voltage	/



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TEST DATE / ENGINEER

Test Date	/	Test By	/
1 cot Dato	<i>'</i>	1 cot by	,

TEST RESULTS

Please refer to original report 4791524970-RF-5



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10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 15.203

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

Please refer to FCC part 15.407(a)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

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11. TEST DATA

11.1. APPENDIX A: MAXIMUM CONDUCTED OUTPUT POWER 11.1.1. Test Result

Mode	Freq(MHz)	RU size	RU Index	P	Av.Power (dBm)	•	Directional	EIRP
Wode	Freq(IVII 12)	NO SIZE	NO IIIdex	ANT0	ANT1	Total	gain(dBi)	(dBm)
	5955	SU	/	2.46	3.74	6.16	0.08	6.24
	6175	SU	/	1.99	2.68	5.36	0.08	5.44
	6415	SU	/	2.11	2.14	5.14	0.08	5.22
	6435	SU	/	2.60	3.48	6.07	-0.46	5.61
	6475	SU	/	2.91	3.51	6.23	-0.46	5.77
802.11AX 20M	6515	SU	/	2.35	3.55	6.00	-0.46	5.54
002.11AX 201VI	6535	SU	/	1.94	2.74	5.37	-0.14	5.23
	6715	SU	/	1.89	2.41	5.17	-0.14	5.03
	6855	SU	/	2.15	2.13	5.15	-0.14	5.01
	6875	SU	/	-4.41	-4.49	-1.44	-0.14	-1.58
	7015	SU	/	-3.59	-4.64	-1.07	-0.14	-1.21
	7115	SU	/	-4.49	-4.47	-1.47	-0.14	-1.61

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

^{2.} The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

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11.2. APPENDIX B: CONTENTION BASED PROTOCOL 11.2.1. Test Result

Mode	Freq	Ant	AWGN	AWGN Frequency	Pmeas	Loss	Pinj	Min Gain	Limit	Adjusted Limit	EUT Tx Status	Verdict	
	,		Location	(MHz)	(dBm)	(dB)	(dBm)	(dBi)	(dBm)	(dBm)	(Note1)		
	AX20 6135 Ant0&1 Cen				6135	-72.11	1.80	-73.91	-1.24	-62.00	-63.24	ON	
AX20		Center	6135	-66.92	1.80	-68.72	-1.24	-62.00	-63.24	Minimal			
				6135	-63.91	1.80	-65.71	-1.24	-62.00	-63.24	OFF	PASS	

Note 1: The AWGN level is reported for the following conditions:

- OFF = AWGN level at which no transmission is detected, consistently for a minimum period of 10 seconds
- Minimal: AWGN level at which the system begins to trigger the transmission switch-off, albeit not being kept off consistently
- ON = AWGN level at which no impact on the transmission is detected, consistently for a minimum period of 10 seconds.

Pmeas is measured AWGN signal level.

Loss is the total path losses of cables / attenuators / couplers between measurement point and EUT injection point. If the measurement is made at the end of the cable that connects to the EUT antenna port then this is 0dBm.

For MIMO testing, we select two RF lines with similar line losses to connect the EUT and take the minimum value in the test frequency band for calculation to ensure strict compliance with the test requirements.

Pinj is the power injected at EUT's antenna connect port.

Adjusted limit is the FCC limit (-62dBm) corrected for the EUT antenna gain (= -62dBm - grant gain)

Gant = EUT antenna gain (for a MIMO system it is the lowest gain across all antennas)

Note 2: The EUT does not support channel puncturing.

Note 3: The EUT does not support channel bandwidth reduction.

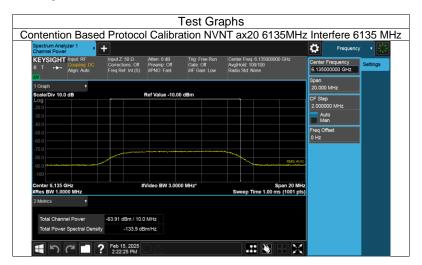
Note 4: Test is performed by starting at a level much lower than required detection level and then increased based on KDB 987594.

Mode	Frequency (MHz)	Antenna	AWGN Location	AWGN Frequency (MHz)	Test Number	Number Detected	Result (%)	Limit (%)	Verdict
AX20	6135	Ant0&1	Center	6135	10	10	100	90	Pass

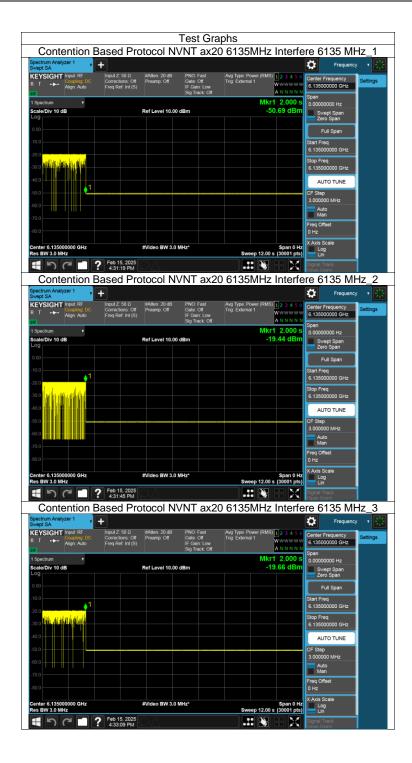
Mode	Frequency	Antenna	AWGN	AWGN Frequency	Test	Is	Verdict
	(MHz)		Location	(MHz)	Time	Detected	
AX20	6135	Ant0&1	Center	6135	1	Yes	Pass
AX20	6135	Ant0&1	Center	6135	2	Yes	Pass
AX20	6135	Ant0&1	Center	6135	3	Yes	Pass
AX20	6135	Ant0&1	Center	6135	4	Yes	Pass
AX20	6135	Ant0&1	Center	6135	5	Yes	Pass
AX20	6135	Ant0&1	Center	6135	6	Yes	Pass
AX20	6135	Ant0&1	Center	6135	7	Yes	Pass
AX20	6135	Ant0&1	Center	6135	8	Yes	Pass
AX20	6135	Ant0&1	Center	6135	9	Yes	Pass
AX20	6135	Ant0&1	Center	6135	10	Yes	Pass



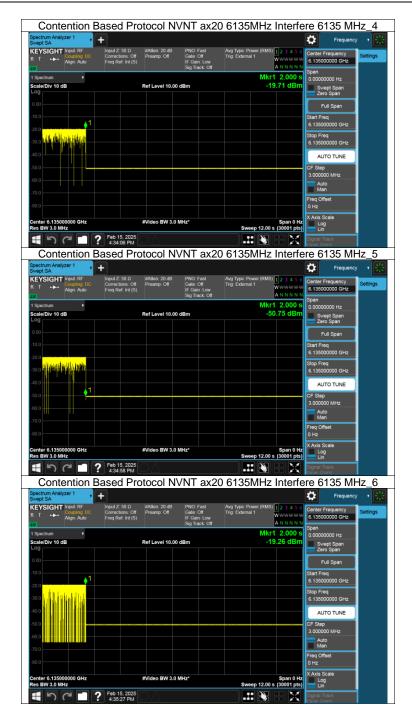
11.2.2. Test Graphs



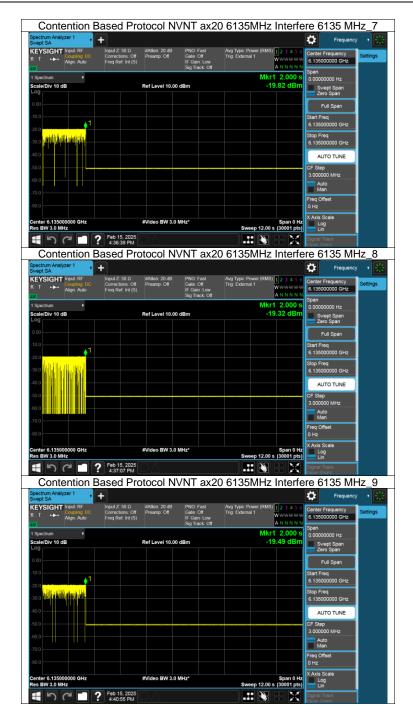




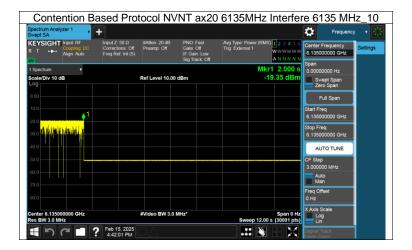












END OF REPORT