

FCC PART 15E TEST REPORT FOR CERTIFICATION On Behalf of

Shenzhen PICEA Intelligent Technology Co., Ltd

Robot Vacuum

Model Number: HOME-S10U

FCC ID: 2BGN6-SCZN0719

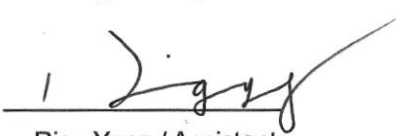
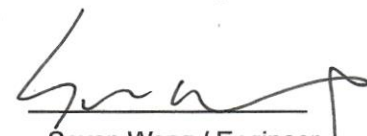
Applicant :	Shenzhen PICEA Intelligent Technology Co., Ltd
Address:	Floor 10, Block A, Han's Innovation Building, No. 9018,
	Beihuan Avenue, North District, High-tech Park,
	Nanshan District, Shenzhen, Guangdong,P.R. China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
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Report Number:	ESTE-R2408165
Date of Test:	Jul. 18, 2024~ Aug. 20, 2024
Date of Report:	Aug. 24, 2024

TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	3
1. GENERAL INFORMATION.....	5
1.1. Description of Device (EUT).....	5
1.2. The antenna information for EUT.....	6
1.3. Information of RF Cable.....	6
2. SUMMARY OF TEST.....	7
2.1. Summary of test result.....	7
2.2. Test Facilities.....	8
2.3. Measurement uncertainty for EST Technology Co., Ltd.....	9
2.4. Assistant equipment used for test.....	9
2.5. Block Diagram.....	9
2.6. Test Mode.....	10
2.7. Channel List.....	12
2.8. Power Setting of Test Software.....	13
2.9. Duty Cycle of Test Signal.....	14
2.10. Test Equipment List.....	15
3. 6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH.....	17
3.1. Limit.....	17
3.2. Test Setup.....	17
3.3. Spectrum Analyzer Setting.....	17
3.4. Test Procedure.....	18
3.5. Test Result.....	18
4. MAXIMUM CONDUCTED OUTPUT POWER.....	19
4.1. Limit.....	19
4.2. Test Setup.....	19
4.3. Spectrum Analyzer Setting.....	19
4.4. Test Procedure.....	19
4.5. Test Result.....	20
5. PEAK POWER SPECTRAL DENSITY.....	21
5.1. Limit.....	21
5.2. Test Setup.....	21
5.3. Spectrum Analyzer Setting.....	21
5.4. Test Procedure.....	21
5.5. Test Result.....	21
6. UNWANTED EMISSIONS AND BAND EDGE.....	22
6.1. Limit.....	22
6.2. Test Setup.....	23
6.3. Spectrum Analyzer Setting.....	24
6.4. Test Procedure.....	25
6.5. Test Result.....	26
7. FREQUENCY STABILITY.....	62
7.1. Limit.....	62

7.2. Test Setup.....	62
7.3. Spectrum Analyzer Setting.....	62
7.4. Test Procedure.....	63
7.5. Test Result.....	63
8. AC POWER LINE CONDUCTED EMISSIONS	64
8.1. Limit.....	64
8.2. Test Setup.....	64
8.3. Spectrum Analyzer Setting.....	64
8.4. Test Procedure.....	64
8.5. Test Result.....	65
9. ANTENNA REQUIREMENTS.....	67
9.1. Limit.....	67
9.2. Test Result.....	67
10. APPENDIX	68
11. TEST SETUP PHOTO	190
12. EUT PHOTO.....	192

Applicant:	Shenzhen PICEA Intelligent Technology Co., Ltd		
Address:	Floor 10, Block A, Han's Innovation Building, No. 9018, Beihuan Avenue, North District, High-tech Park, Nanshan District, Shenzhen, Guangdong, P.R. China		
Manufacturer:	Shenzhen PICEA Intelligent Technology Co., Ltd		
Address:	Floor 10, Block A, Han's Innovation Building, No. 9018, Beihuan Avenue, North District, High-tech Park, Nanshan District, Shenzhen, Guangdong, P.R. China		
Factory:	Shenzhen PICEA Robotics Co., Ltd		
Address:	101, 201 of Building 26, Building 19 & 20 & 21 & 22 & 23 & 24 & 27, Huai De Cui Gang 4th Industrial Park, Fuyong Street, Baoan District, Shenzhen, Guangdong, P.R. China		
E.U.T:	Robot Vacuum		
Model Number:	HOME-S10U		
Power Supply:	Robot Vacuum: DC 14.4V From Battery Robot Vacuum Station: AC 120V/60Hz		
Trade Name:		Serial No.:	-----
Date of Receipt:	Jul. 18, 2024	Date of Test:	Jul. 18, 2024~ Aug. 20, 2024
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:	 Ring Yang / Assistant	Reviewed by:	 Seven Wang / Engineer
		Date:	Aug 24, 2024
		Approved by:	 Iceman Hu / Manager
			
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1.GENERAL INFORMATION

1.1.Description of Device (EUT)

FCC ID	:	2BGN6-SCZN0719
Product Name	:	Robot Vacuum
Model Number	:	HOME-S10U
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	U-NII-1: 5150 MHz~5250 MHz U-NII-2A: 5250 MHz~5350 MHz U-NII-2C: 5470 MHz~5725 MHz U-NII-3: 5725 MHz~5850 MHz
Number of channel	:	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20: 4 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel. U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20: 4 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel. U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20: 11 Channels; IEEE 802.11n HT40 / ac VHT40: 5 Channels; IEEE 802.11ac VHT80: 2 Channel. U-NII-3: IEEE 802.11a / n HT20 / ac VHT20: 5 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel.
Modulation	:	OFDM
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n: up 150Mbps IEEE 802.11ac: up to 433.3Mbps
Channels Spacing	:	IEEE 802.11a: 20MHz; IEEE 802.11n HT20: 20MHz; IEEE 802.11n HT40: 40MHz; IEEE 802.11ac VHT20: 20MHz; IEEE 802.11ac VHT40: 40MHz; IEEE 802.11ac VHT80: 80MHz;

Transmit Power	:	U-NII-1	IEEE 802.11a: 15.06dBm IEEE 802.11n HT20: 14.09dBm IEEE 802.11n HT40: 14.23dBm IEEE 802.11ac VHT20: 15.51dBm IEEE 802.11ac VHT40: 15.69dBm IEEE 802.11ac VHT80: 13.47dBm
		U-NII-2A	IEEE 802.11a: 14.79dBm IEEE 802.11n HT20: 15.69dBm IEEE 802.11n HT40: 14.08dBm IEEE 802.11ac VHT20: 15.25dBm IEEE 802.11ac VHT40: 14.47dBm IEEE 802.11ac VHT80: 15.57dBm
		U-NII-2C	IEEE 802.11a: 14.96dBm IEEE 802.11n HT20: 14.16dBm IEEE 802.11n HT40: 13.46dBm IEEE 802.11ac VHT20: 14.27dBm IEEE 802.11ac VHT40: 13.41dBm IEEE 802.11ac VHT80: 12.95dBm
		U-NII-3	IEEE 802.11a: 14.02dBm IEEE 802.11n HT20: 14.30dBm IEEE 802.11n HT40: 14.67dBm IEEE 802.11ac VHT20: 15.72dBm IEEE 802.11ac VHT40: 15.82dBm IEEE 802.11ac VHT80: 15.41dBm
Sample Type	:	Prototype production	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2.The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	4.61
Note: 1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain. 2.The test results of this report only apply to the sample as received.					

1.3.Information of RF Cable

Cable Loss(dB)	Provided by
1.0	Shenzhen PICEA Intelligent Technology Co., Ltd
Note: 1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received. 2.The laboratory is not responsible for the accuracy of the cable loss.	

2.SUMMARY OF TEST

2.1.Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
2	Maximum Conducted Output Power	15.407(a)	PASS
3	Peak Power Spectral Density	15.407(a)	PASS
4	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
5	Frequency Stability	15.407(g)	PASS
6	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
7	Antenna Requirement	15.203	PASS

Note:“N/A” denotes test is not applicable in this test report.

2.2.Test Facilities

EMC Lab : Accredited by CNAS, CHINA
Registration No.: L5288
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA
Designation Number: CN1215
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Recognized by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10-8
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

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

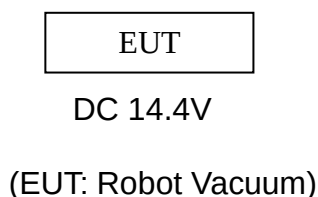
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

2.5.Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground.



2.6.Test Mode

Pre-scan has been combined all possible modulations and data rates to determine the worst case test mode,the worst case test mode was selected for the final test as listed below.

Test Item	Test Mode	Channel	Modulation	Data rate
6dB Bandwidth	IEEE 802.11a	149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	151/159	OFDM	MCS0
	IEEE 802.11ac VHT80	155	OFDM	MCS0
26dB Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122	OFDM	MCS0
99% Occupied Bandwidth	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
Maximum Conducted Output Power	IEEE 802.11a	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0

Peak Power Spectral Density	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
Unwanted Emissions and Band Edge(Above 1GHz)	IEEE 802.11a	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	6Mbps
	IEEE 802.11n HT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11n HT40	38/46/54/62/102/118/134/151/159	OFDM	MCS0
	IEEE 802.11ac VHT20	36/40/48/52/60/64/100/116/140/149/157/165	OFDM	MCS0
	IEEE 802.11ac VHT40	38/46/54/62/102/118/134/151/ 159	OFDM	MCS0
	IEEE 802.11ac VHT80	42/58/106/122/155	OFDM	MCS0
Unwanted Emissions Below 1GHz	IEEE 802.11a	100	OFDM	6Mbps
Frequency Stability	Unmodulation	36/64/100/149	N/A	N/A
AC Power Line Conducted Emissions	IEEE 802.11a	100	OFDM	6Mbps

Note: In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7.Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-1	IEEE 802.11a & n HT20 & ac VHT20	36	5180
		40	5200
		44	5220
		48	5240
	IEEE 802.11n HT40 & ac VHT40	38	5190
		46	5230
	IEEE 802.11ac VHT80	42	5210
U-NII-2A	IEEE 802.11a & n HT20 & ac VHT20	52	5260
		56	5280
		60	5300
		64	5320
	IEEE 802.11n HT40 & ac VHT40	54	5270
		62	5310
	IEEE 802.11ac VHT80	58	5290
U-NII-2C	IEEE 802.11a & n HT20 & ac VHT20	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
		140	5700
	IEEE 802.11n HT40 & ac VHT40	102	5510
		110	5550
		118	5590
		126	5630
	IEEE 802.11ac VHT80	134	5670
		106	5530
		122	5610
U-NII-3	IEEE 802.11a & n HT20 & ac VHT20	149	5745
		153	5765
		157	5785
		161	5805
		165	5825
	IEEE 802.11n HT40 & ac VHT40	151	5755
		159	5795
	IEEE 802.11ac VHT80	155	5775

2.8.Power Setting of Test Software

Software Name	CMD		
U-NII-1			
Frequency(MHz)	5180	5200	5240
IEEE 802.11a Setting	50	50	50
IEEE 802.11n HT20 Setting	50	50	50
IEEE 802.11ac VHT20 Setting	55	55	50
Frequency(MHz)	5190	5230	
IEEE 802.11n HT40 Setting	50	50	
IEEE 802.11ac VHT40 Setting	55	50	
Frequency(MHz)	5210		
IEEE 802.11ac VHT80 Setting	50		
U-NII-2A			
Frequency(MHz)	5260	5300	5320
IEEE 802.11a Setting	50	50	50
IEEE 802.11n HT20 Setting	50	55	55
IEEE 802.11ac VHT20 Setting	50	50	55
Frequency(MHz)	5270	5310	
IEEE 802.11n HT40 Setting	50	50	
IEEE 802.11ac VHT40 Setting	50	50	
Frequency(MHz)	5290		
IEEE 802.11ac VHT80 Setting	50		
U-NII-2C			
Frequency(MHz)	5500	5580	5700
IEEE 802.11a Setting	60	60	60
IEEE 802.11n HT20 Setting	60	60	60
IEEE 802.11ac VHT20 Setting	60	60	60
Frequency(MHz)	5510	5590	5670
IEEE 802.11n HT40 Setting	60	60	60
IEEE 802.11ac VHT40 Setting	60	60	60
Frequency(MHz)	5530	5610	
IEEE 802.11ac VHT80 Setting	60	60	
U-NII-3			
Frequency(MHz)	5745	5785	5825
IEEE 802.11a Setting	55	55	55
IEEE 802.11n HT20 Setting	60	60	60
IEEE 802.11ac VHT20 Setting	60	60	60
Frequency(MHz)	5755	5795	
IEEE 802.11n HT40 Setting	60	60	
IEEE 802.11ac VHT40 Setting	60	60	
Frequency(MHz)	5775		
IEEE 802.11ac VHT80 Setting	60		

Note: This information is provided by the applicant.

2.9.Duty Cycle of Test Signal

Refer to section 10: Appendix B

Note:

1. Duty Cycle=On Time/Total Time×100%.
2. Duty Factor=10×LOG(1/Duty Cycle).
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle ≥98 %, the EUT is consider to be transmitting continuously, the conducted average output power and average power spectral density no need to add duty factor.
5. The on-time time is transmission duration(T).
6. The VBW Setting is use for RMS measurement in Unwanted Emissions and Band Edge(Above 1GHz) Test.

2.10. Test Equipment List

For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESRP3	EST-E070	LISAI	June 11,24	June 10,25
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	LISAI	June 11,24	June 10,25
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emission test(9kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,24	June 10,25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	EST-E054	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 11,24	June 10,25
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 11,24	June 10,25
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 11,24	June 10,25
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 11,24	June 10,25
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 11,24	June 10,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test

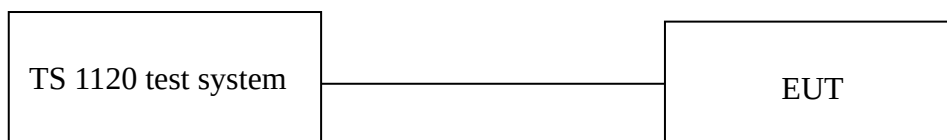
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 11,24	June 10,25
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 11,24	June 10,25

3.6dB BANDWIDTH &26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1.Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth≥500KHz

3.2.Test Setup



3.3.Spectrum Analyzer Setting

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4.Test Procedure

For 26dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission.Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 6dB Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

3.5.Test Result

Refer to section 10: Appendix A1/A2/A3

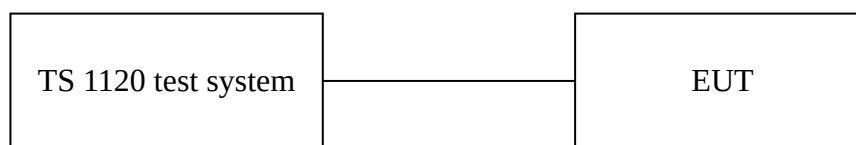
4.MAXIMUM CONDUCTED OUTPUT POWER

4.1.Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p $\leq$ 125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or 11dBm+10 log B, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or 11dBm+10 log B, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

Note: For the Band U-NII-2A and U-NII-2C, the maximum conducted output power limit calculate result refer to section 3.5.

4.2.Test Setup



4.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	40MHz(20MHz Bandwidth mode) 80MHz(40MHz Bandwidth mode) 160MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	RMS
Trace Mode	Max Hold

4.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.

- c. Set the EUT transmit continuously with maximum output power.
- d. Use the channel power function to measure maximum peak output power, allow trace to stabilize,
save test pictures.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

4.5.Test Result

Refer to section 10: Appendix C

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
- If the duty cycle of test signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

5.5. Test Result

Refer to section 10: Appendix D

6.UNWANTED EMISSIONS AND BAND EDGE

6.1.Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

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)

Note:

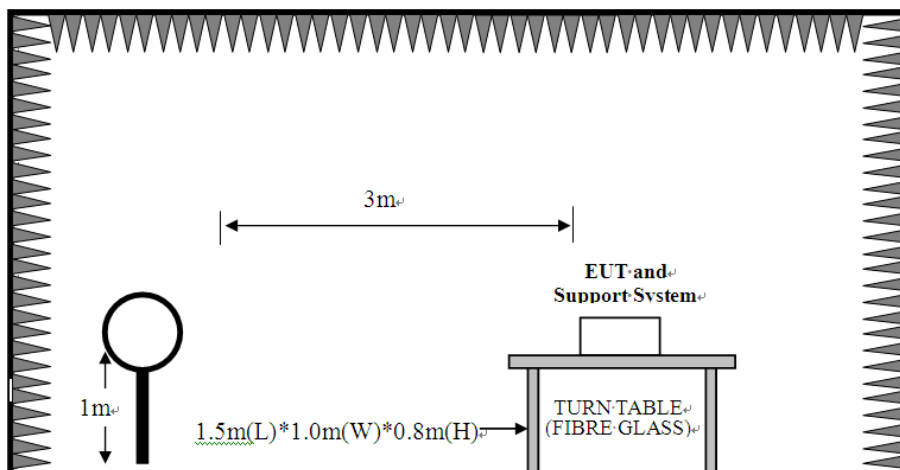
1. $\text{dB}\mu\text{V}/\text{m} = 20\text{Log}(\mu\text{V}/\text{m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength

$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$$

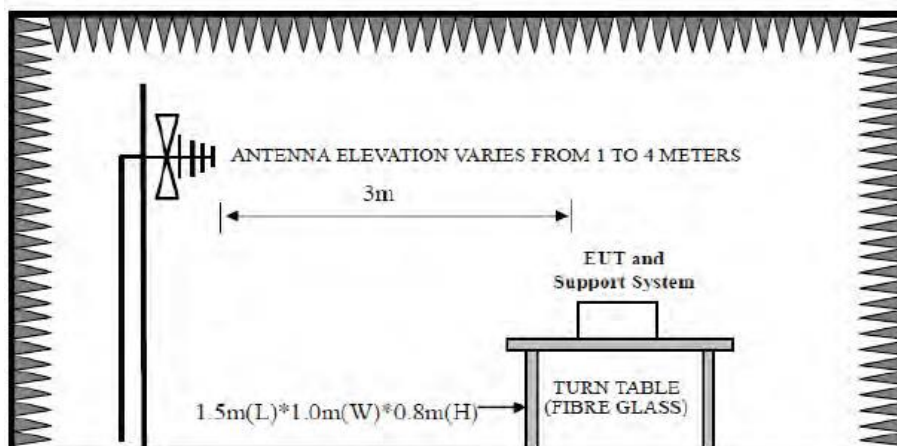
where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)= $\text{EIRP}-20\log(3)+104.77=\text{EIRP}+95.2$

6.2.Test Setup

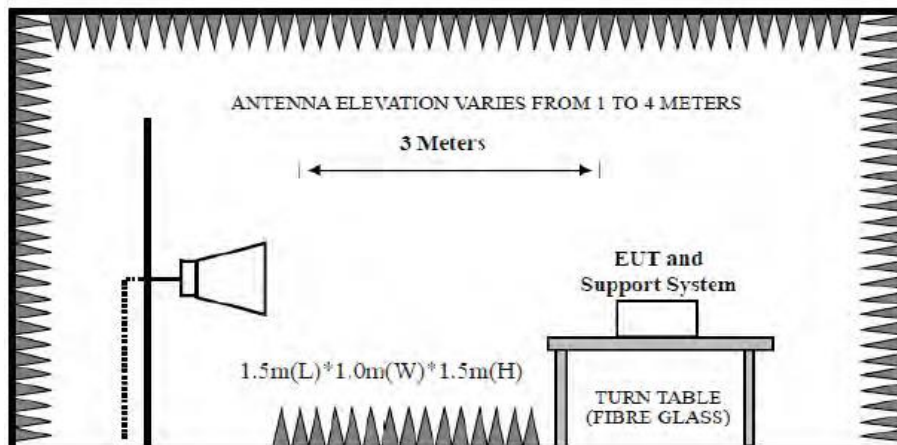
9kHz~30MHz



30~1000MHz



Above 1GHz



6.3.Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq$ 98%,VBW=10Hz Duty cycle $<$ 98%,VBW $\geq$ 1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

6.4.Test Procedure

- EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Repeat above procedures until all channels were measured.
- Record the results in the test report.
- IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80 all have been tested, only worst case IEEE 802.11n HT20 is recorded.

6.5.Test Result

Radiated Emissions Below 1GHz

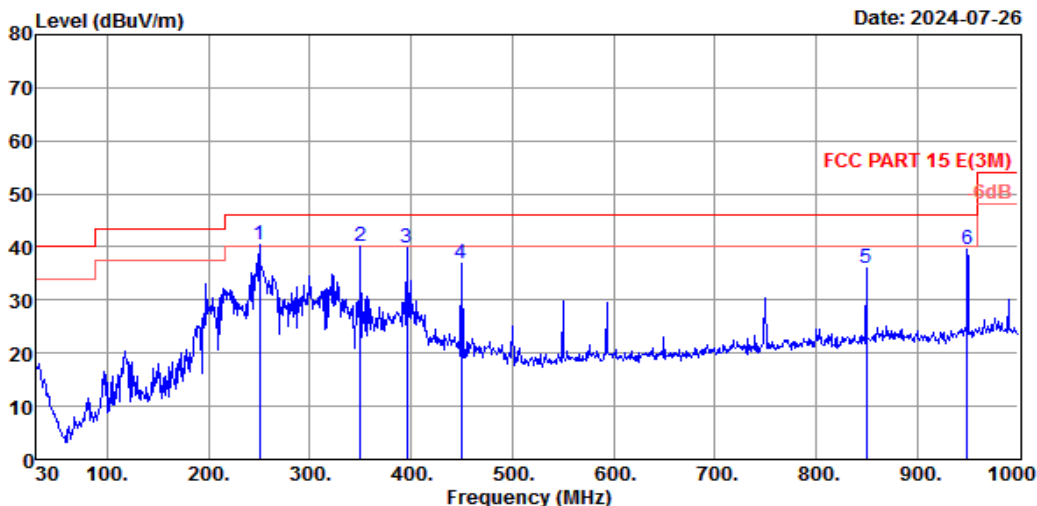
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Data: 81

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-26



Site no. : 5# 966 Chamber Data no. : 81
Dis. / Ant. : 3m 54681 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:23.5°C;Humi:54%;Prwss:101.1kPa
Engineer : Luke
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	250.19	13.10	2.74	24.58	40.42	46.00	5.58	QP
2	350.10	14.70	3.28	22.10	40.08	46.00	5.92	QP
3	395.69	15.76	3.51	20.60	39.87	46.00	6.13	QP
4	450.01	17.00	3.76	16.03	36.79	46.00	9.21	QP
5	849.65	22.90	5.31	7.76	35.97	46.00	10.03	QP
6	949.56	24.50	5.64	9.42	39.56	46.00	6.44	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

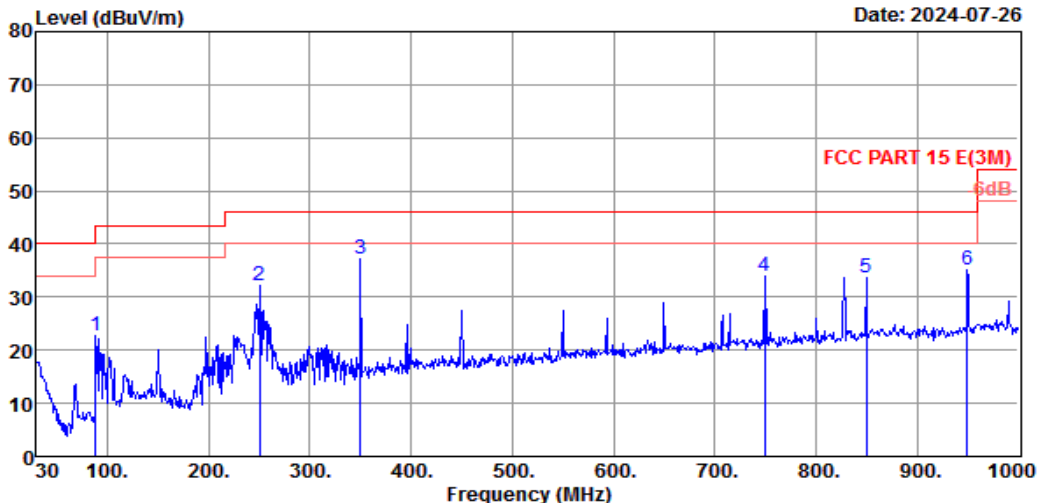
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Data: 82

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-26



Site no. : 5# 966 Chamber Data no. : 82
Dis. / Ant. : 3m 54681 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:23.5°C;Humi:54%;;Prwss:101.1kPa
Engineer : Luke
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	88.20	8.20	1.17	13.27	22.64	43.50	20.86	QP
2	250.19	13.10	2.74	16.30	32.14	46.00	13.86	QP
3	350.10	14.70	3.28	19.20	37.18	46.00	8.82	QP
4	749.74	22.00	4.95	7.13	34.08	46.00	11.92	QP
5	849.65	22.90	5.31	5.40	33.61	46.00	12.39	QP
6	949.56	24.50	5.64	5.05	35.19	46.00	10.81	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

Radiated Emissions Above 1G

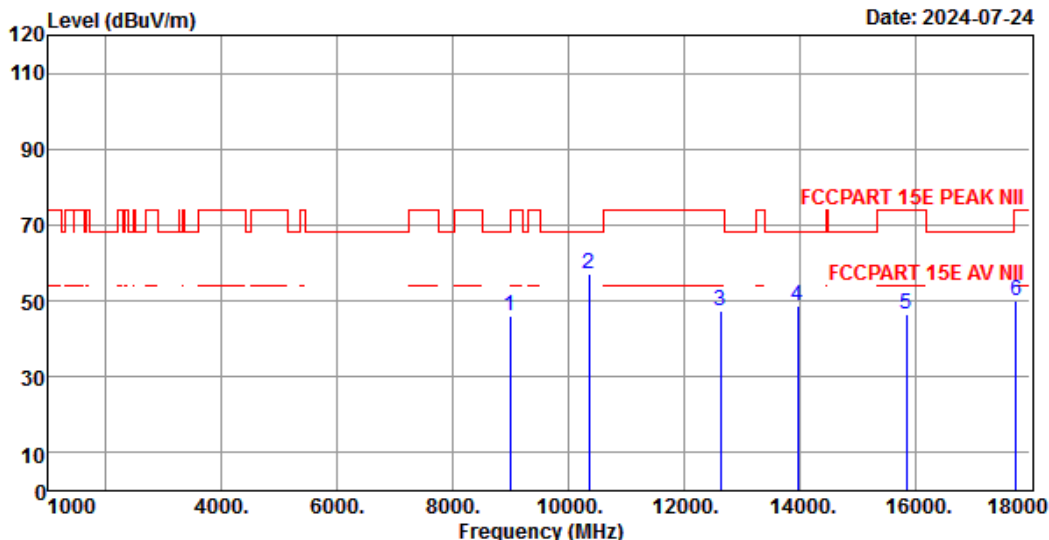
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Data: 145

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 145
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8990.00	38.00	9.18	42.31	41.30	46.17	68.20	22.03	Peak
2	10360.00	38.25	10.08	41.48	50.47	57.32	68.20	10.88	Peak
3	12628.00	39.60	11.23	39.92	36.48	47.39	74.00	26.61	Peak
4	13971.00	40.37	11.26	40.27	37.31	48.67	68.20	19.53	Peak
5	15858.00	36.57	12.13	42.74	40.48	46.44	74.00	27.56	Peak
6	17745.00	42.85	14.19	41.63	34.68	50.09	74.00	23.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

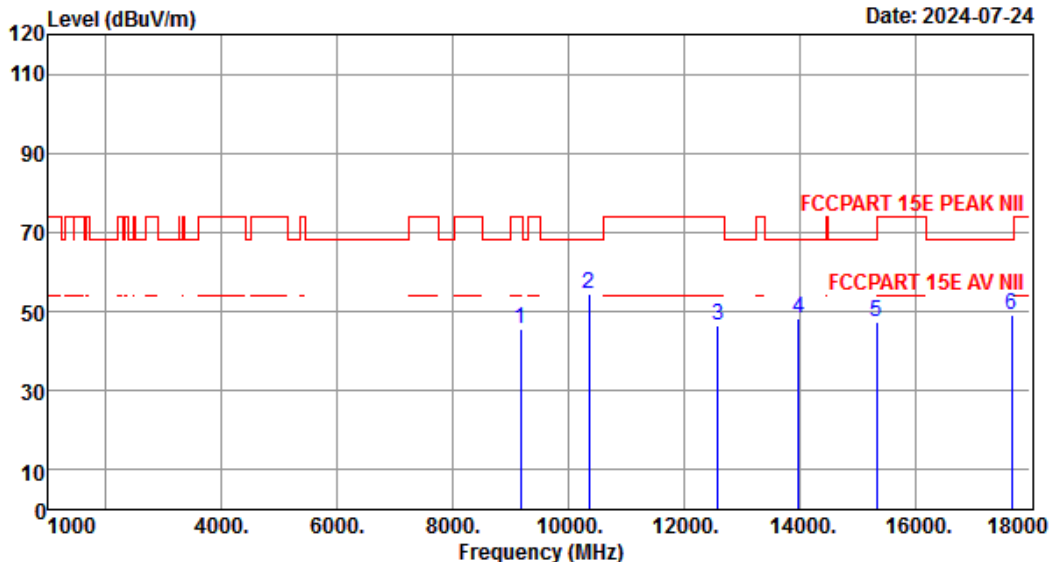
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Data: 146

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 146
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9177.00	38.13	9.29	42.20	40.33	45.55	74.00	28.45	Peak
2	10360.00	38.25	10.08	41.48	47.73	54.58	68.20	13.62	Peak
3	12594.00	39.40	11.22	39.97	35.80	46.45	74.00	27.55	Peak
4	13988.00	40.33	11.26	40.28	37.08	48.39	68.20	19.81	Peak
5	15331.00	38.13	11.52	42.53	40.36	47.48	68.20	20.72	Peak
6	17677.00	41.62	14.14	41.72	35.29	49.33	68.20	18.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

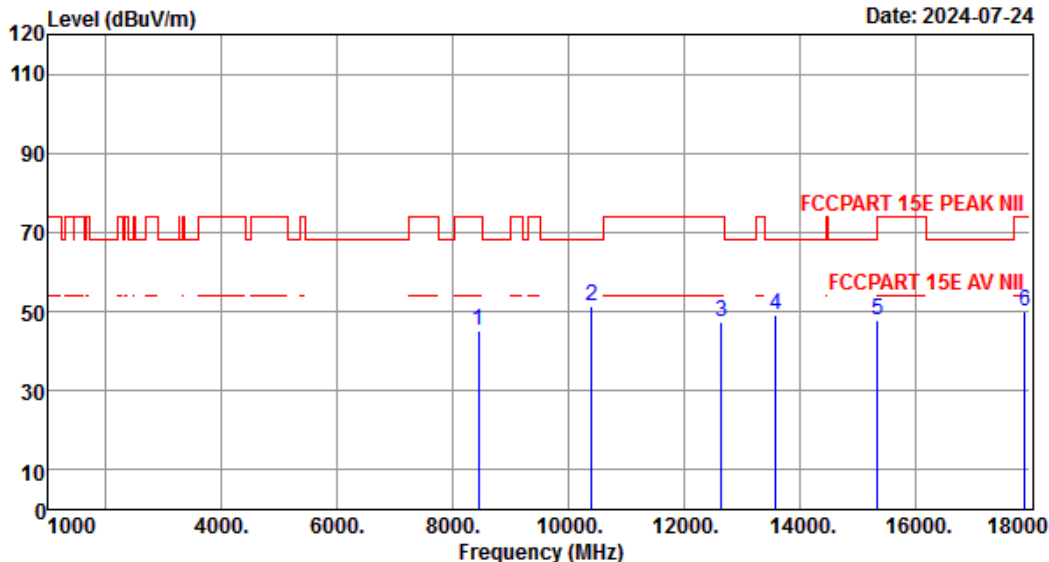
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Data: 147

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 147
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8446.00	37.60	8.88	42.64	41.31	45.15	74.00	28.85	Peak
2	10400.00	38.40	10.11	41.46	44.22	51.27	68.20	16.93	Peak
3	12645.00	39.70	11.24	39.90	36.52	47.56	74.00	26.44	Peak
4	13597.00	40.90	11.29	39.93	36.80	49.06	68.20	19.14	Peak
5	15348.00	38.05	11.54	42.54	40.66	47.71	68.20	20.49	Peak
6	17898.00	44.70	14.30	41.43	32.56	50.13	74.00	23.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

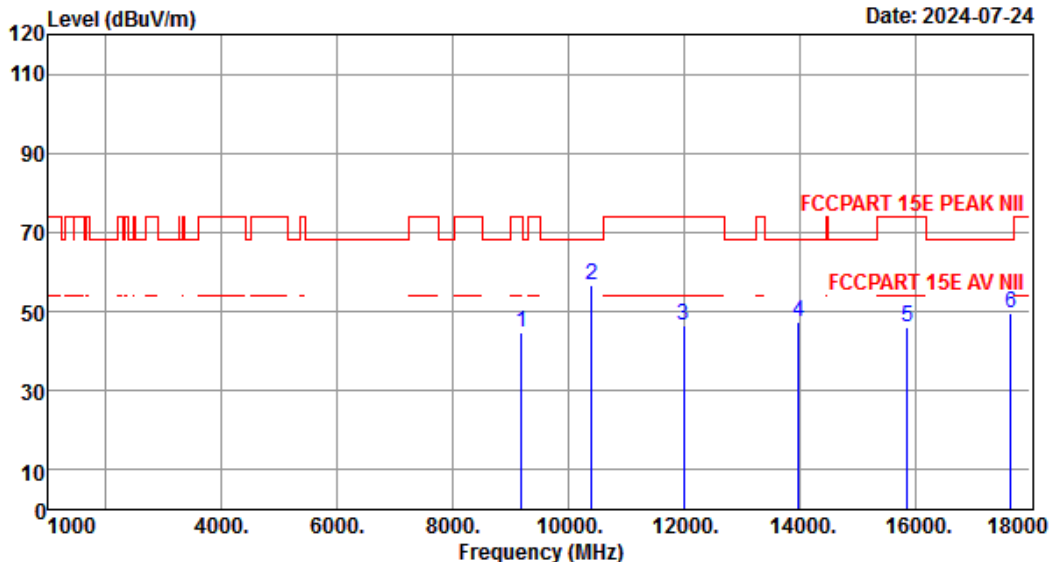
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Data: 148

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 148
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9194.00	38.07	9.30	42.19	39.57	44.75	74.00	29.25	Peak
2	10400.00	38.40	10.11	41.46	49.44	56.49	68.20	11.71	Peak
3	11999.00	39.50	11.07	40.80	36.67	46.44	74.00	27.56	Peak
4	13988.00	40.33	11.26	40.28	36.24	47.55	68.20	20.65	Peak
5	15875.00	36.53	12.15	42.75	40.12	46.05	74.00	27.95	Peak
6	17660.00	41.63	14.12	41.74	35.42	49.43	68.20	18.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

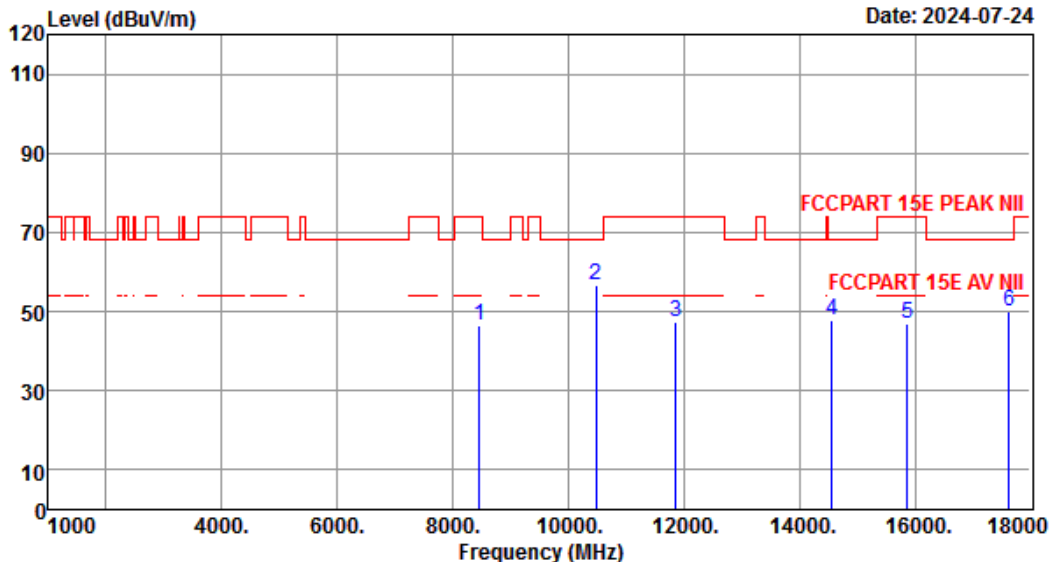
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Data: 149

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 149
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8463.00	37.50	8.89	42.63	42.67	46.43	74.00	27.57	Peak
2	10480.00	38.47	10.18	41.41	49.29	56.53	68.20	11.67	Peak
3	11863.00	39.47	11.00	40.84	37.74	47.37	74.00	26.63	Peak
4	14566.00	39.12	11.19	41.47	39.06	47.90	68.20	20.30	Peak
5	15875.00	36.53	12.15	42.75	41.02	46.95	74.00	27.05	Peak
6	17626.00	41.67	14.10	41.78	36.07	50.06	68.20	18.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

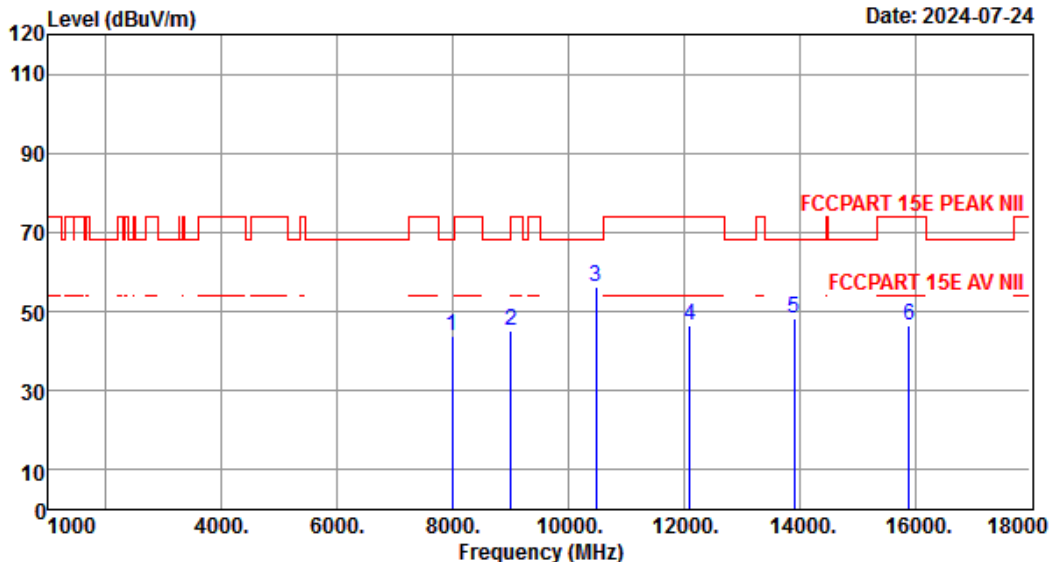
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Data: 150

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 150
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7987.00	37.43	8.64	42.90	40.54	43.71	68.20	24.49	Peak
2	9007.00	37.90	9.19	42.30	40.42	45.21	74.00	28.79	Peak
3	10480.00	38.47	10.18	41.41	49.16	56.40	68.20	11.80	Peak
4	12101.00	39.30	11.10	40.66	36.74	46.48	74.00	27.52	Peak
5	13903.00	40.50	11.27	40.21	36.81	48.37	68.20	19.83	Peak
6	15892.00	36.50	12.17	42.76	40.74	46.65	74.00	27.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

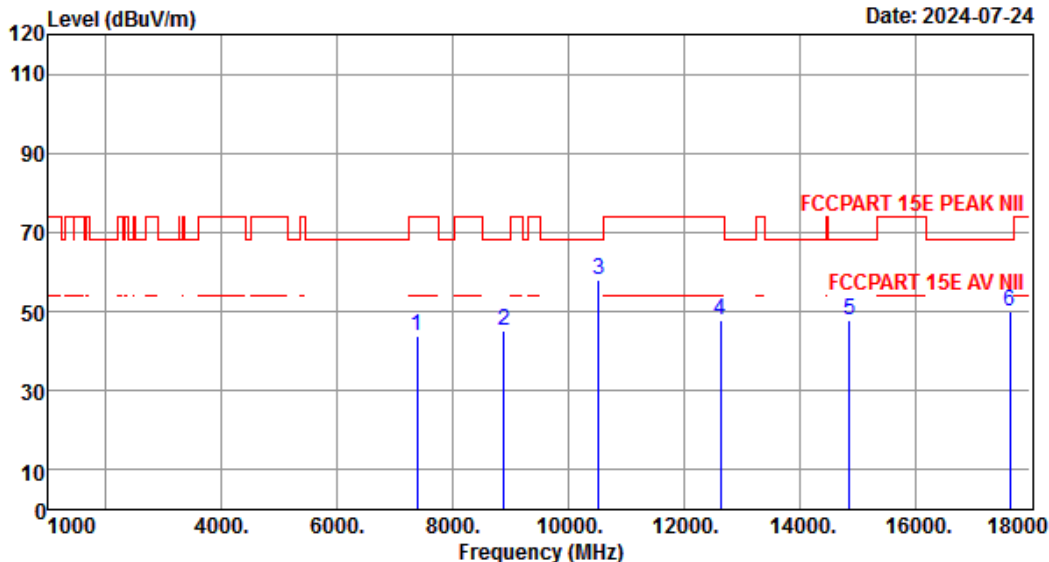
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Data: 151

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 151
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7375.00	36.77	8.46	42.90	41.29	43.62	74.00	30.38	Peak
2	8888.00	38.17	9.12	42.37	40.39	45.31	68.20	22.89	Peak
3	10520.00	38.54	10.21	41.38	50.47	57.84	68.20	10.36	Peak
4	12628.00	39.60	11.23	39.92	36.92	47.83	74.00	26.17	Peak
5	14872.00	38.87	11.16	42.12	39.96	47.87	68.20	20.33	Peak
6	17643.00	41.65	14.11	41.76	35.95	49.95	68.20	18.25	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

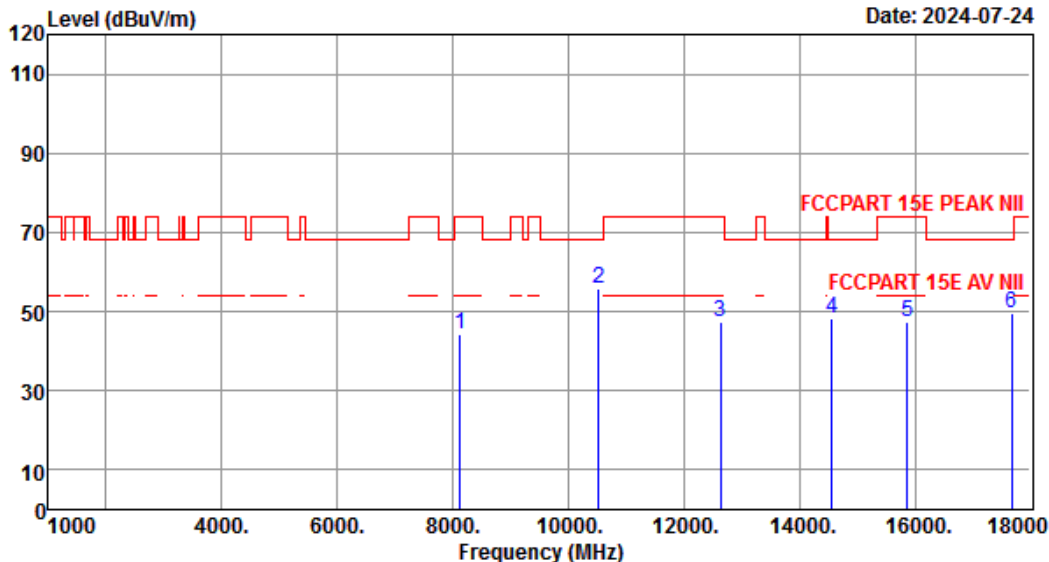
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Data: 152

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 152
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8123.00	37.43	8.71	42.83	40.85	44.16	74.00	29.84	Peak
2	10520.00	38.54	10.21	41.38	48.39	55.76	68.20	12.44	Peak
3	12628.00	39.60	11.23	39.92	36.64	47.55	74.00	26.45	Peak
4	14566.00	39.12	11.19	41.47	39.28	48.12	68.20	20.08	Peak
5	15875.00	36.53	12.15	42.75	41.26	47.19	74.00	26.81	Peak
6	17677.00	41.62	14.14	41.72	35.39	49.43	68.20	18.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

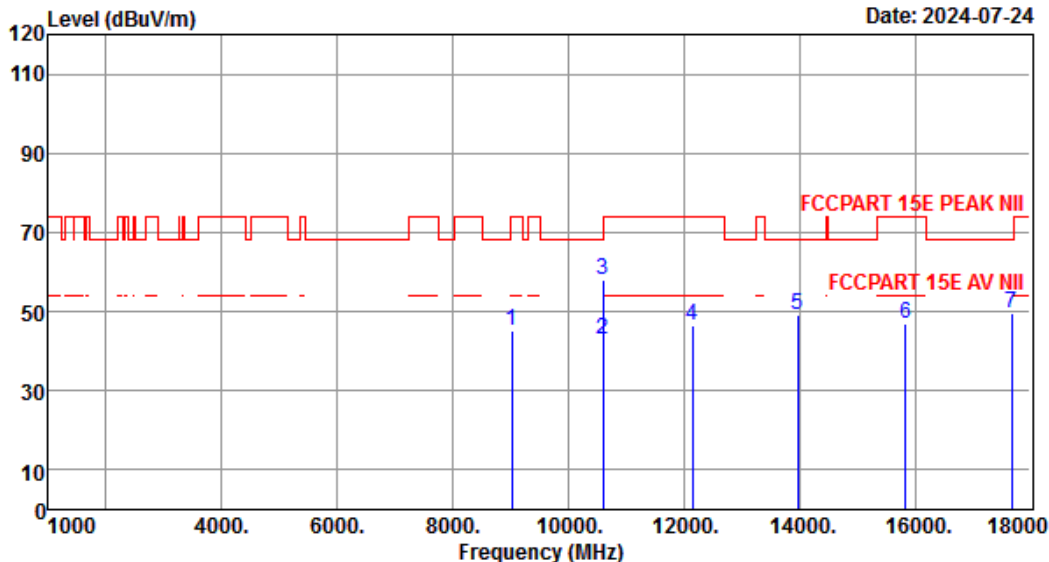
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Data: 153

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 153
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9024.00	37.90	9.20	42.29	40.53	45.34	74.00	28.66	Peak
2	10600.00	38.70	10.27	41.33	35.17	42.81	54.00	11.19	Average
3	10600.00	38.70	10.27	41.33	50.22	57.86	68.20	10.34	Peak
4	12152.00	39.35	11.11	40.59	36.70	46.57	74.00	27.43	Peak
5	13971.00	40.37	11.26	40.27	37.69	49.05	68.20	19.15	Peak
6	15841.00	36.60	12.11	42.74	40.77	46.74	74.00	27.26	Peak
7	17677.00	41.62	14.14	41.72	35.59	49.63	68.20	18.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

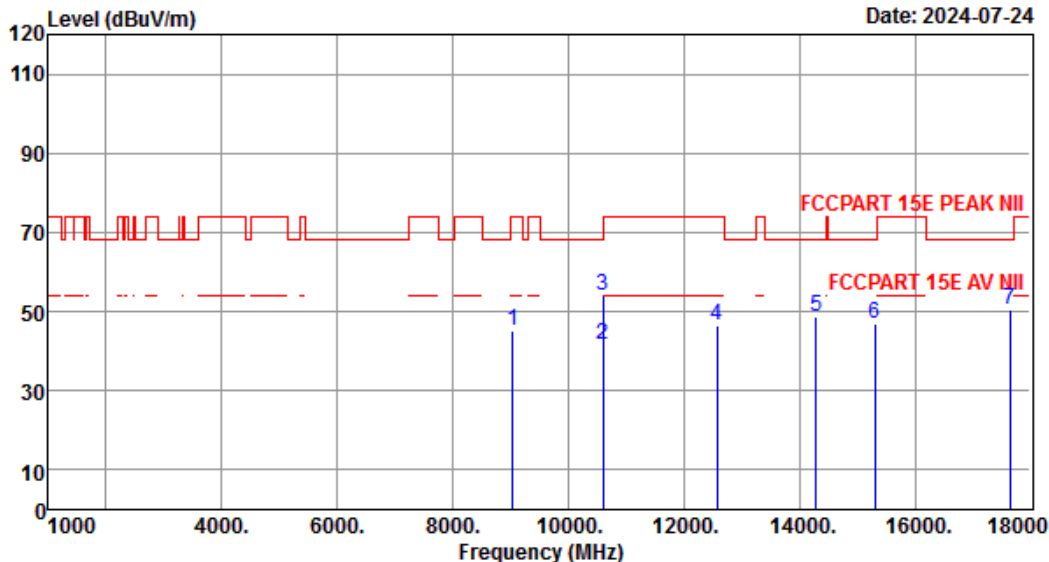
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File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 154
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9041.00	37.90	9.21	42.28	40.20	45.03	74.00	28.97	Peak
2	10600.00	38.70	10.27	41.33	33.89	41.53	54.00	12.47	Average
3	10600.00	38.70	10.27	41.33	46.56	54.20	68.20	14.00	Peak
4	12577.00	39.40	11.22	39.99	35.98	46.61	74.00	27.39	Peak
5	14294.00	40.18	11.23	40.91	38.42	48.92	68.20	19.28	Peak
6	15314.00	38.22	11.50	42.52	39.77	46.97	68.20	21.23	Peak
7	17643.00	41.65	14.11	41.76	36.35	50.35	68.20	17.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

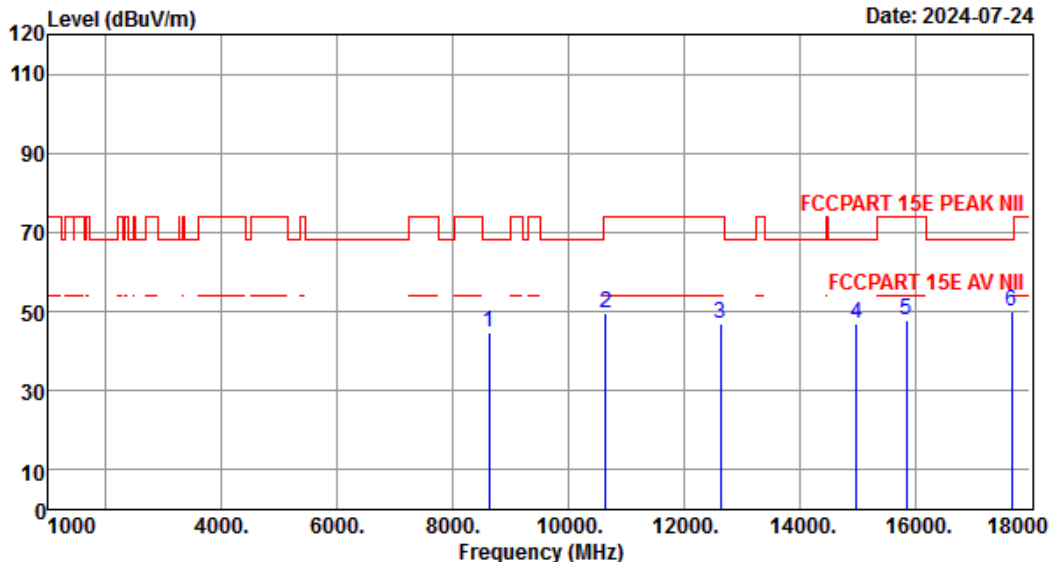
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Data: 155

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 155
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8633.00	37.90	8.98	42.52	40.50	44.86	68.20	23.34	Peak
2	10640.00	38.65	10.30	41.31	42.01	49.65	74.00	24.35	Peak
3	12628.00	39.60	11.23	39.92	36.11	47.02	74.00	26.98	Peak
4	14991.00	38.22	11.14	42.36	39.91	46.91	68.20	21.29	Peak
5	15858.00	36.57	12.13	42.74	41.70	47.66	74.00	26.34	Peak
6	17677.00	41.62	14.14	41.72	36.03	50.07	68.20	18.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

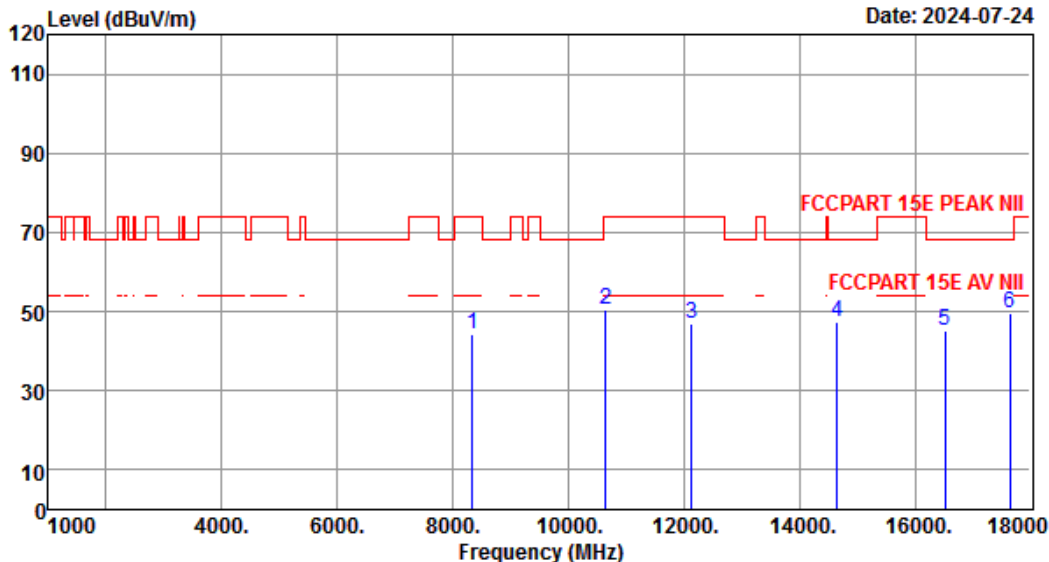
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Data: 156

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 156
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8344.00	37.37	8.83	42.70	40.64	44.14	74.00	29.86	Peak
2	10640.00	38.65	10.30	41.31	43.04	50.68	74.00	23.32	Peak
3	12135.00	39.33	11.11	40.61	37.25	47.08	74.00	26.92	Peak
4	14651.00	38.95	11.18	41.65	38.91	47.39	68.20	20.81	Peak
5	16521.00	39.66	12.99	42.69	35.17	45.13	68.20	23.07	Peak
6	17643.00	41.65	14.11	41.76	35.72	49.72	68.20	18.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

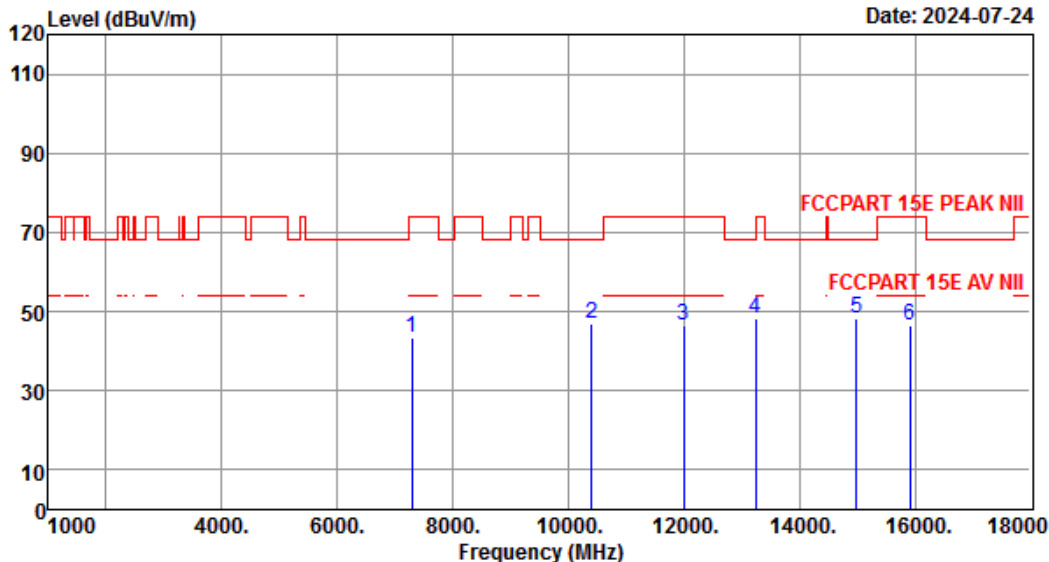
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Data: 157

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 157
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7290.00	36.87	8.43	42.90	41.01	43.41	74.00	30.59	Peak
2	10401.00	38.40	10.11	41.46	40.08	47.13	68.20	21.07	Peak
3	11999.00	39.50	11.07	40.80	36.85	46.62	74.00	27.38	Peak
4	13240.00	40.53	11.31	39.61	35.85	48.08	68.20	20.12	Peak
5	14991.00	38.22	11.14	42.36	41.12	48.12	68.20	20.08	Peak
6	15909.00	36.72	12.19	42.77	40.35	46.49	74.00	27.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

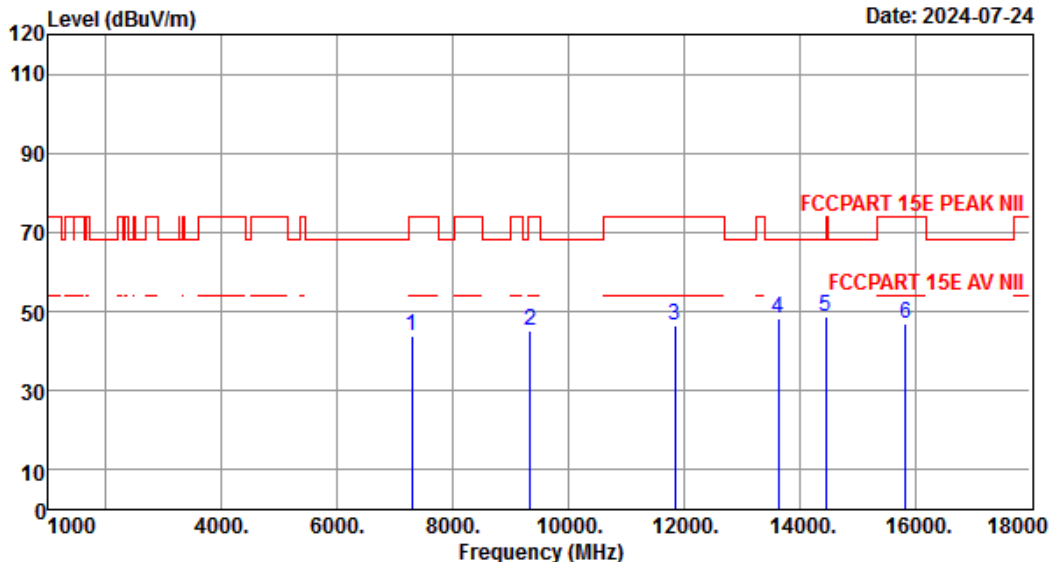
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Data: 158

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 158
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7290.00	36.87	8.43	42.90	41.50	43.90	74.00	30.10	Peak
2	9347.00	38.37	9.40	42.09	39.62	45.30	74.00	28.70	Peak
3	11846.00	39.46	11.00	40.85	36.98	46.59	74.00	27.41	Peak
4	13631.00	40.70	11.29	39.96	36.19	48.22	68.20	19.98	Peak
5	14464.00	39.45	11.21	41.26	39.15	48.55	68.20	19.65	Peak
6	15841.00	36.60	12.11	42.74	40.97	46.94	74.00	27.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

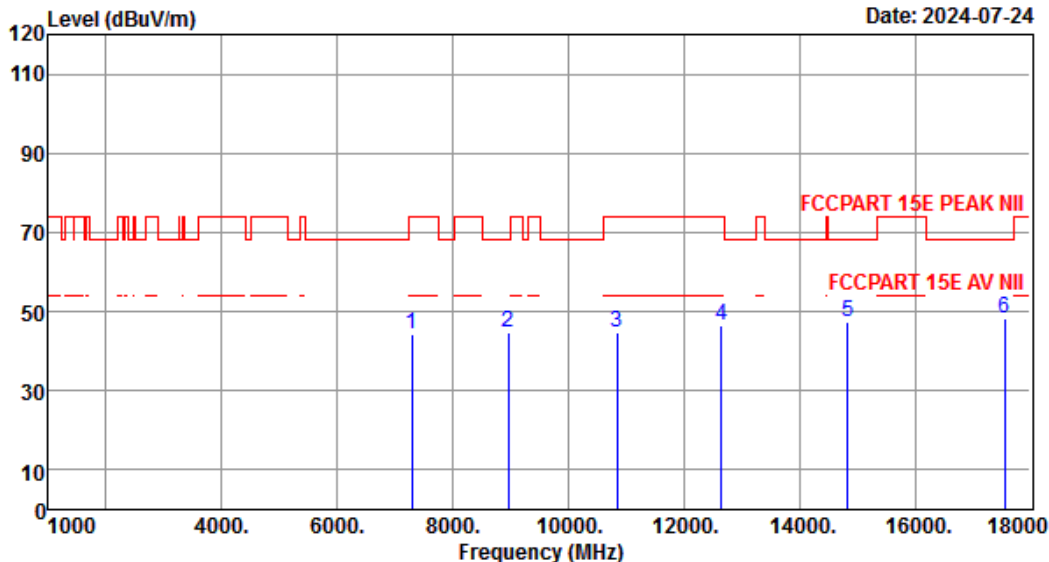
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Data: 159

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 159
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7290.00	36.87	8.43	42.90	42.00	44.40	74.00	29.60	Peak
2	8956.00	38.20	9.16	42.33	39.48	44.51	68.20	23.69	Peak
3	10843.00	38.35	10.46	41.19	36.91	44.53	74.00	29.47	Peak
4	12645.00	39.70	11.24	39.90	35.32	46.36	74.00	27.64	Peak
5	14838.00	38.93	11.16	42.04	39.11	47.16	68.20	21.04	Peak
6	17558.00	41.10	14.05	41.87	35.19	48.47	68.20	19.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

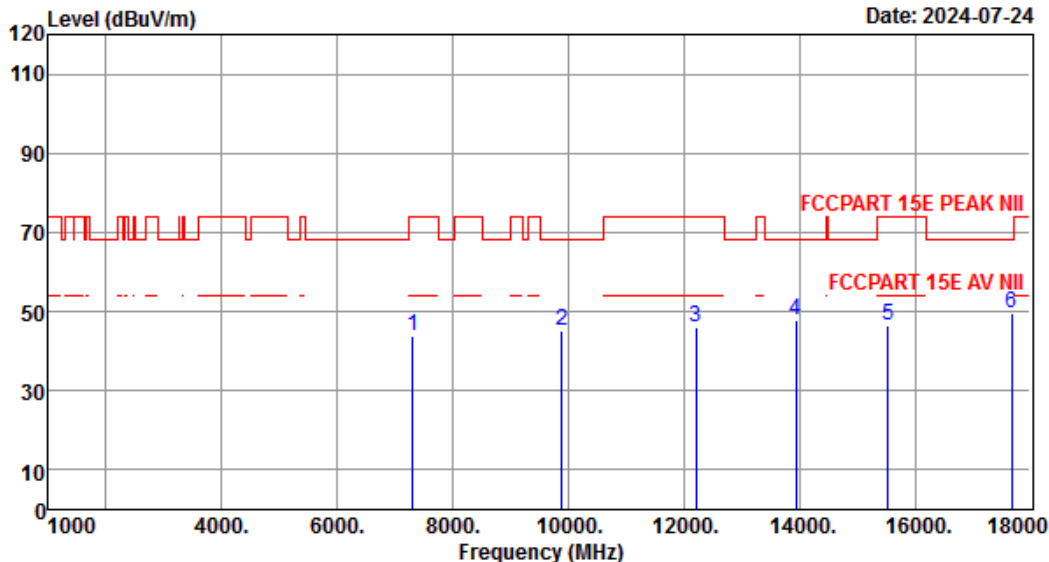
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Data: 160

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 160
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7307.00	36.90	8.44	42.90	41.54	43.98	74.00	30.02	Peak
2	9891.00	38.40	9.73	41.76	38.75	45.12	68.20	23.08	Peak
3	12203.00	39.40	11.12	40.52	36.10	46.10	74.00	27.90	Peak
4	13937.00	40.43	11.26	40.24	36.49	47.94	68.20	20.26	Peak
5	15535.00	37.32	11.75	42.61	39.99	46.45	74.00	27.55	Peak
6	17677.00	41.62	14.14	41.72	35.53	49.57	68.20	18.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

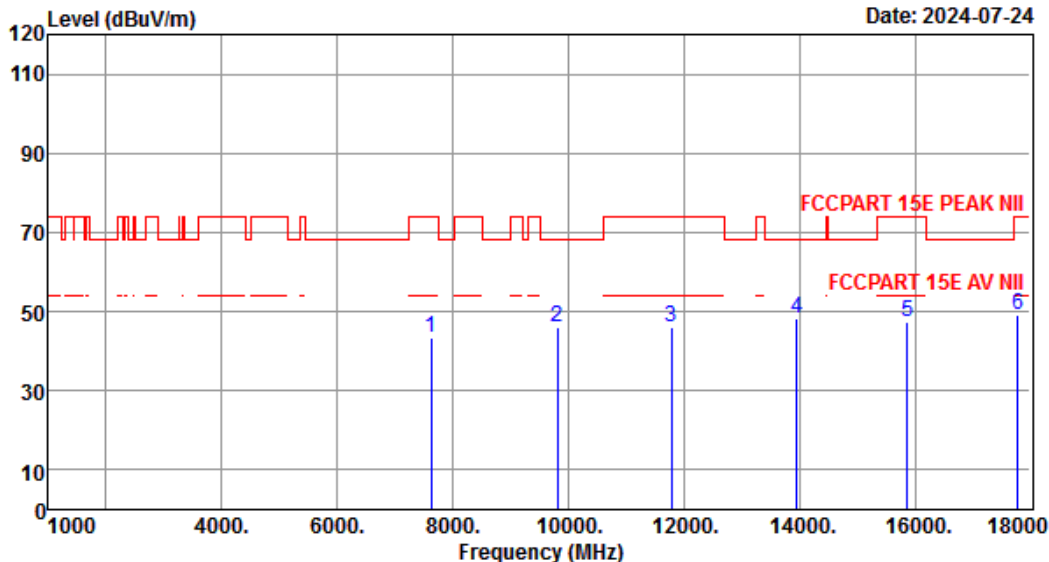
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Data: 161

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 161
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7630.00	36.73	8.53	42.90	41.03	43.39	74.00	30.61	Peak
2	9806.00	38.43	9.68	41.81	39.59	45.89	68.20	22.31	Peak
3	11778.00	39.39	10.96	40.87	36.55	46.03	74.00	27.97	Peak
4	13954.00	40.40	11.26	40.25	36.87	48.28	68.20	19.92	Peak
5	15875.00	36.53	12.15	42.75	41.53	47.46	74.00	26.54	Peak
6	17779.00	43.68	14.21	41.59	32.75	49.05	74.00	24.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

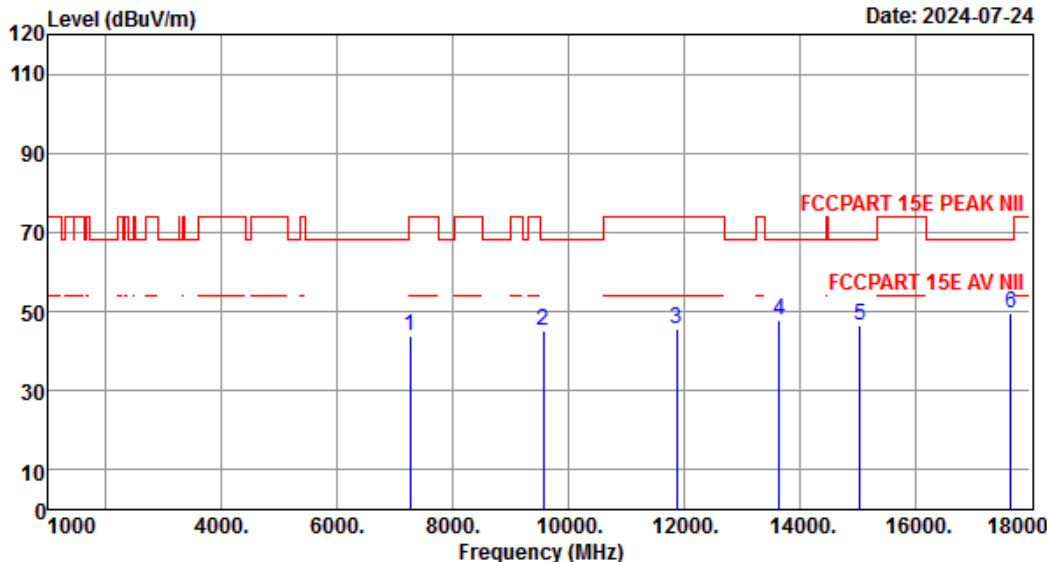
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Data: 162

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 162
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7256.00	36.80	8.42	42.90	41.59	43.91	74.00	30.09	Peak
2	9568.00	38.47	9.53	41.96	39.01	45.05	68.20	23.15	Peak
3	11880.00	39.49	11.01	40.84	35.92	45.58	74.00	28.42	Peak
4	13648.00	40.60	11.28	39.98	35.75	47.65	68.20	20.55	Peak
5	15042.00	38.27	11.18	42.41	39.45	46.49	68.20	21.71	Peak
6	17660.00	41.63	14.12	41.74	35.53	49.54	68.20	18.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

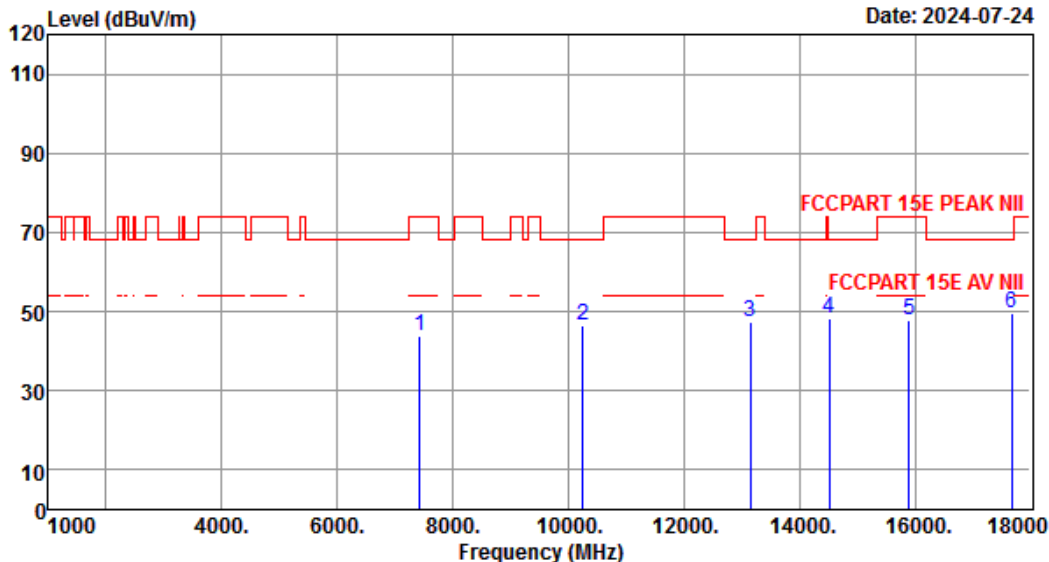
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File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 163
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7426.00	36.70	8.47	42.90	41.47	43.74	74.00	30.26	Peak
2	10248.00	38.25	9.99	41.55	39.74	46.43	68.20	21.77	Peak
3	13155.00	40.45	11.32	39.54	35.00	47.23	68.20	20.97	Peak
4	14515.00	39.30	11.20	41.37	39.12	48.25	68.20	19.95	Peak
5	15892.00	36.50	12.17	42.76	41.95	47.86	74.00	26.14	Peak
6	17677.00	41.62	14.14	41.72	35.42	49.46	68.20	18.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

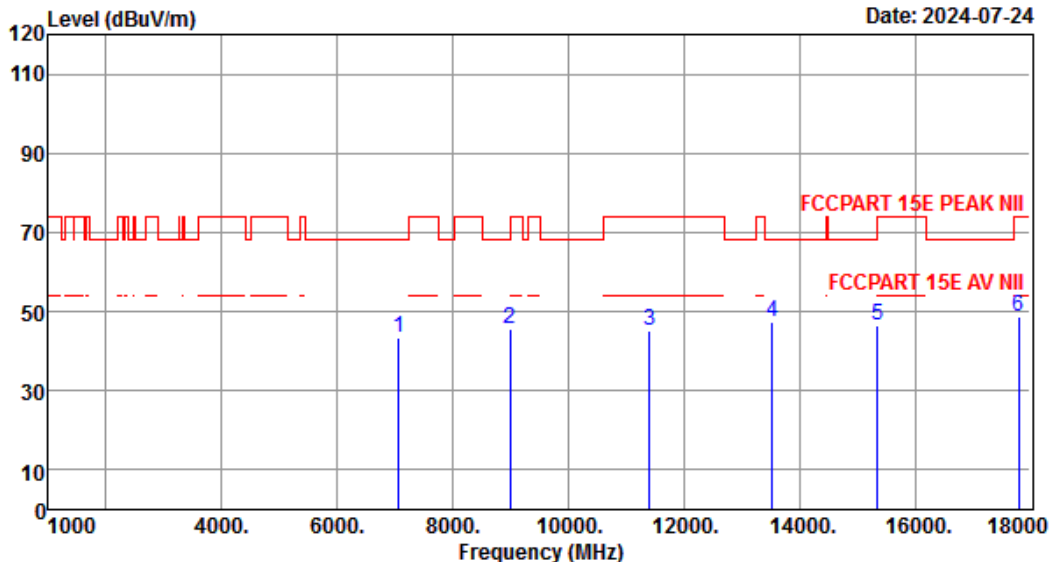
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Data: 164

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 164
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7069.00	36.70	8.37	42.90	41.10	43.27	68.20	24.93	Peak
2	8990.00	38.00	9.18	42.31	40.57	45.44	68.20	22.76	Peak
3	11404.00	40.30	10.78	40.98	35.23	45.33	74.00	28.67	Peak
4	13529.00	41.06	11.29	39.87	34.70	47.18	68.20	21.02	Peak
5	15348.00	38.05	11.54	42.54	39.46	46.51	68.20	21.69	Peak
6	17796.00	44.10	14.23	41.56	31.84	48.61	74.00	25.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

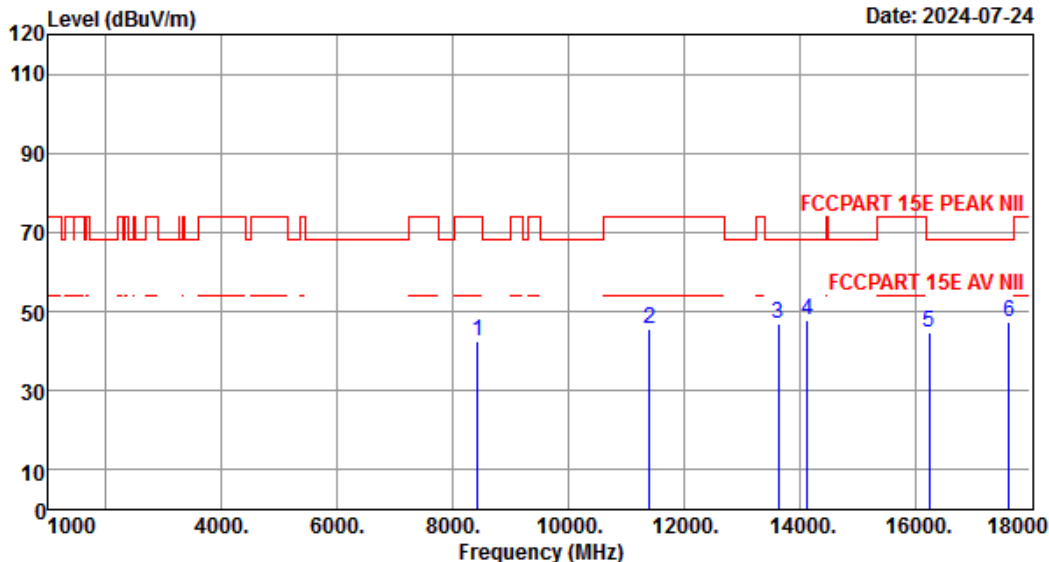
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Data: 165

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Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 165
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8429.00	37.70	8.87	42.65	38.75	42.67	74.00	31.33	Peak
2	11404.00	40.30	10.78	40.98	35.70	45.80	74.00	28.20	Peak
3	13631.00	40.70	11.29	39.96	34.77	46.80	68.20	21.40	Peak
4	14141.00	39.47	11.24	40.58	37.51	47.64	68.20	20.56	Peak
5	16249.00	38.65	12.63	42.75	36.23	44.76	68.20	23.44	Peak
6	17626.00	41.67	14.10	41.78	33.41	47.40	68.20	20.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

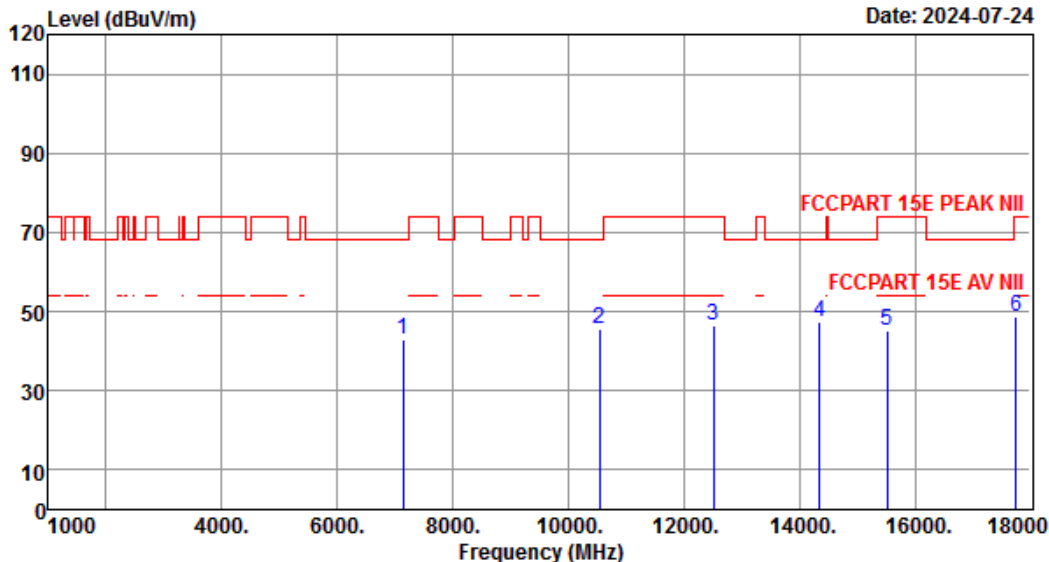
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Data: 166

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Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 166
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7137.00	37.03	8.39	42.90	40.30	42.82	68.20	25.38	Peak
2	10537.00	38.58	10.22	41.37	38.01	45.44	68.20	22.76	Peak
3	12509.00	39.40	11.20	40.09	35.86	46.37	74.00	27.63	Peak
4	14345.00	40.07	11.22	41.01	37.26	47.54	68.20	20.66	Peak
5	15518.00	37.26	11.73	42.61	38.91	45.29	74.00	28.71	Peak
6	17745.00	42.85	14.19	41.63	33.09	48.50	74.00	25.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

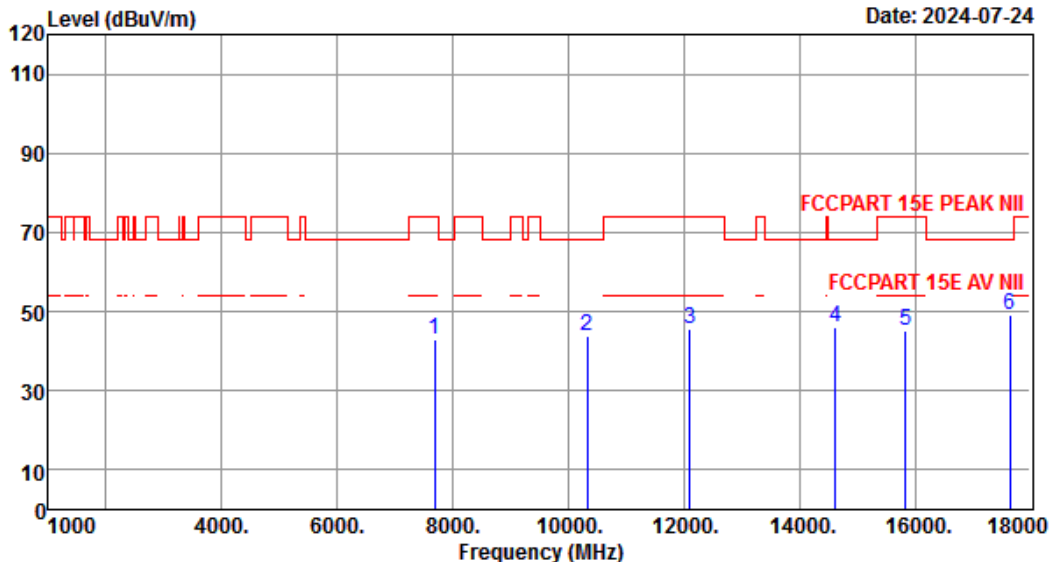
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Data: 167

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 167
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7681.00	36.80	8.55	42.90	40.58	43.03	74.00	30.97	Peak
2	10333.00	38.20	10.06	41.50	37.26	44.02	68.20	24.18	Peak
3	12101.00	39.30	11.10	40.66	35.76	45.50	74.00	28.50	Peak
4	14617.00	38.98	11.19	41.58	37.66	46.25	68.20	21.95	Peak
5	15841.00	36.60	12.11	42.74	39.01	44.98	74.00	29.02	Peak
6	17643.00	41.65	14.11	41.76	35.22	49.22	68.20	18.98	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

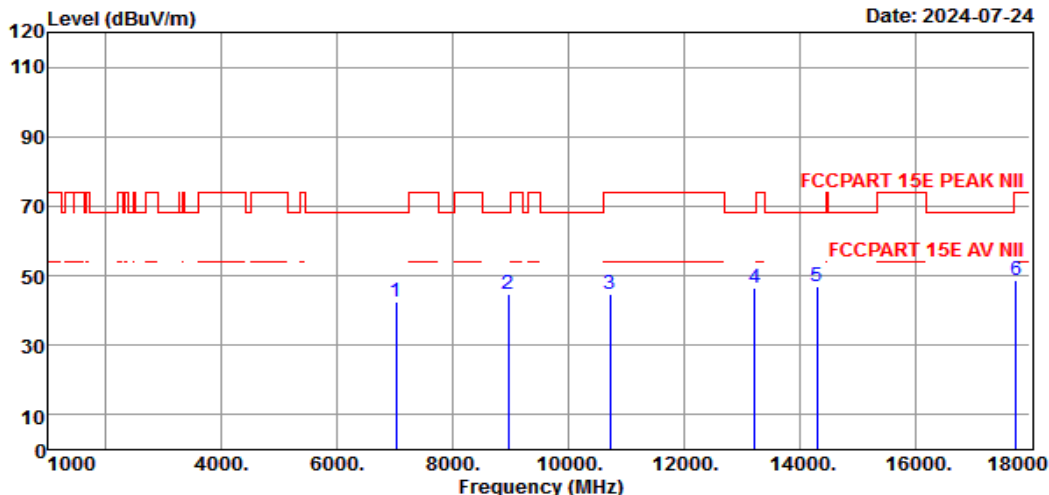
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Data: 168

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 168
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7018.00	36.53	8.35	42.90	40.71	42.69	68.20	25.51	Peak
2	8956.00	38.20	9.16	42.33	39.59	44.62	68.20	23.58	Peak
3	10724.00	38.57	10.37	41.26	36.88	44.56	74.00	29.44	Peak
4	13223.00	40.62	11.31	39.60	34.09	46.42	68.20	21.78	Peak
5	14311.00	40.30	11.22	40.94	36.46	47.04	68.20	21.16	Peak
6	17745.00	42.85	14.19	41.63	33.42	48.83	74.00	25.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

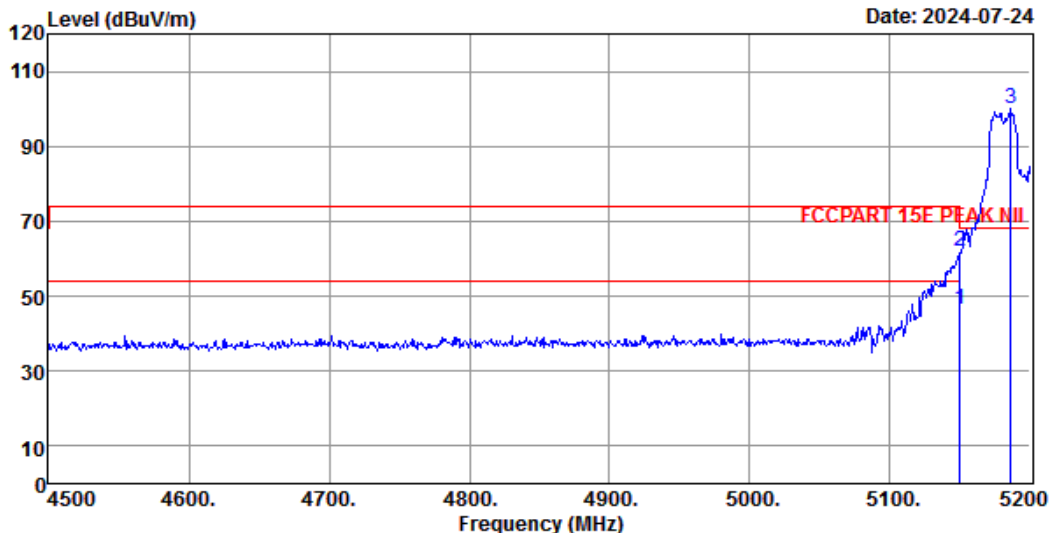
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Data: 41

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 41
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.70	7.09	43.05	48.81	46.55	54.00	7.45	Average
2	5150.00	33.70	7.09	43.05	64.24	61.98	68.20	6.22	Peak
3	5186.00	33.77	7.12	43.04	102.06	99.91	68.20	-31.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

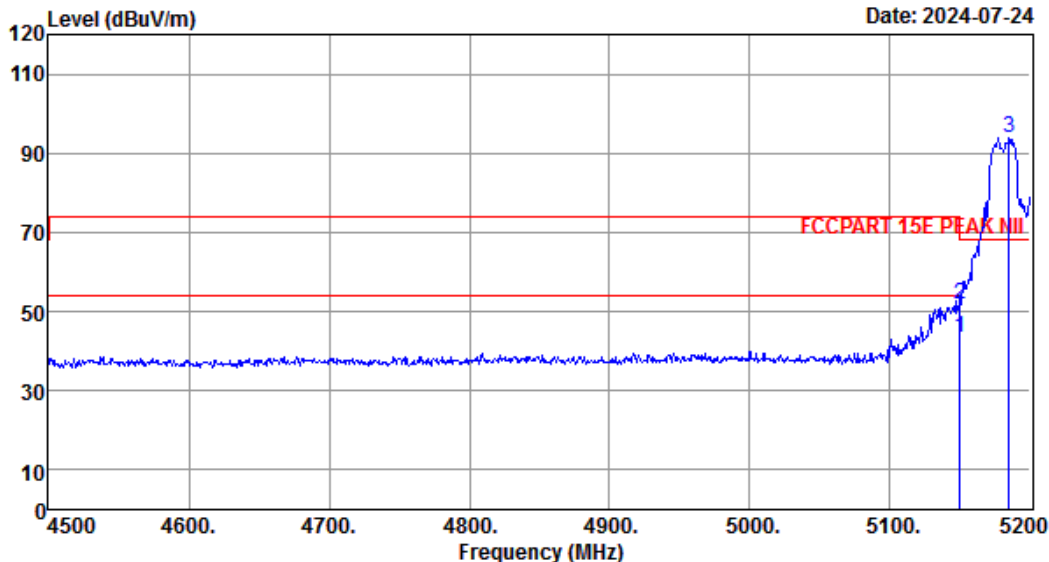
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Data: 42

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 42
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.70	7.09	43.05	45.68	43.42	54.00	10.58	Average
2	5150.00	33.70	7.09	43.05	53.90	51.64	68.20	16.56	Peak
3	5184.60	33.77	7.12	43.04	95.98	93.83	68.20	-25.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

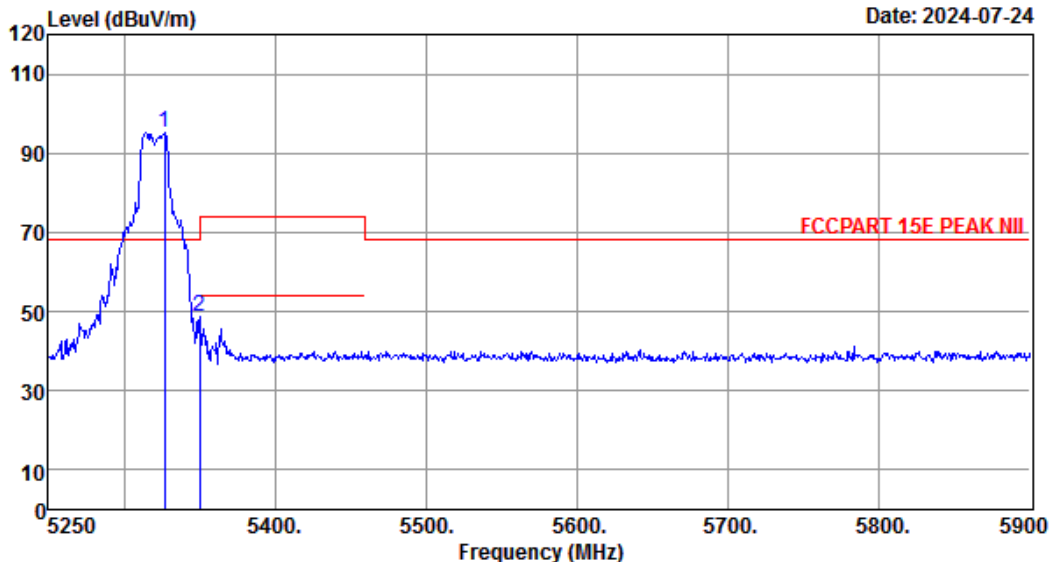
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Data: 43

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 43
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5326.70	33.70	7.27	43.00	97.23	95.20	68.20	-27.00	Peak
2	5350.00	33.70	7.28	42.99	50.67	48.66	68.20	19.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

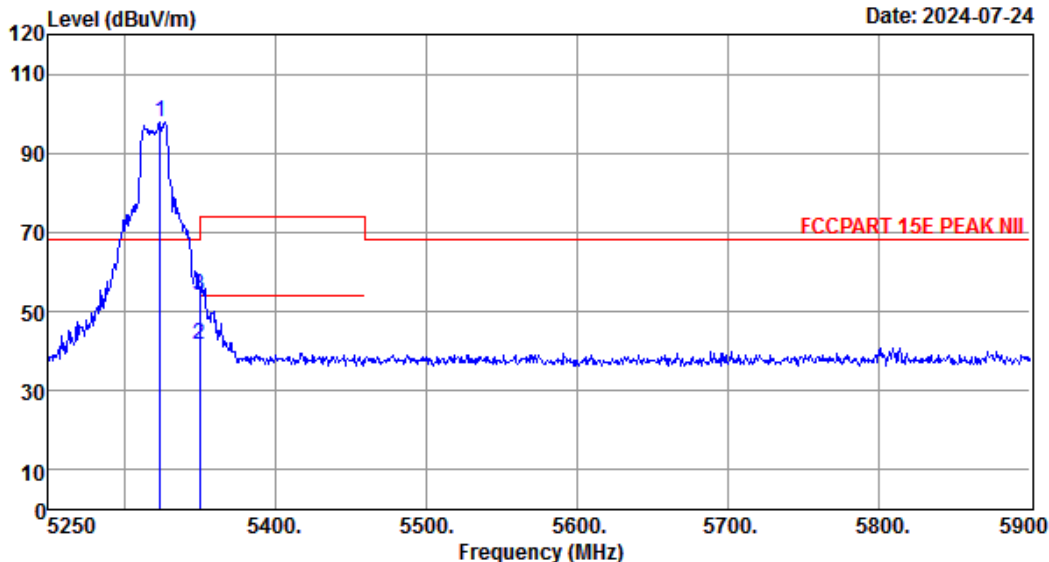
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Data: 44

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 44
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5324.10	33.70	7.25	43.00	100.11	98.06	68.20	-29.86	Peak
2	5350.00	33.70	7.28	42.99	43.69	41.68	54.00	12.32	Average
3	5350.00	33.70	7.28	42.99	56.02	54.01	68.20	14.19	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

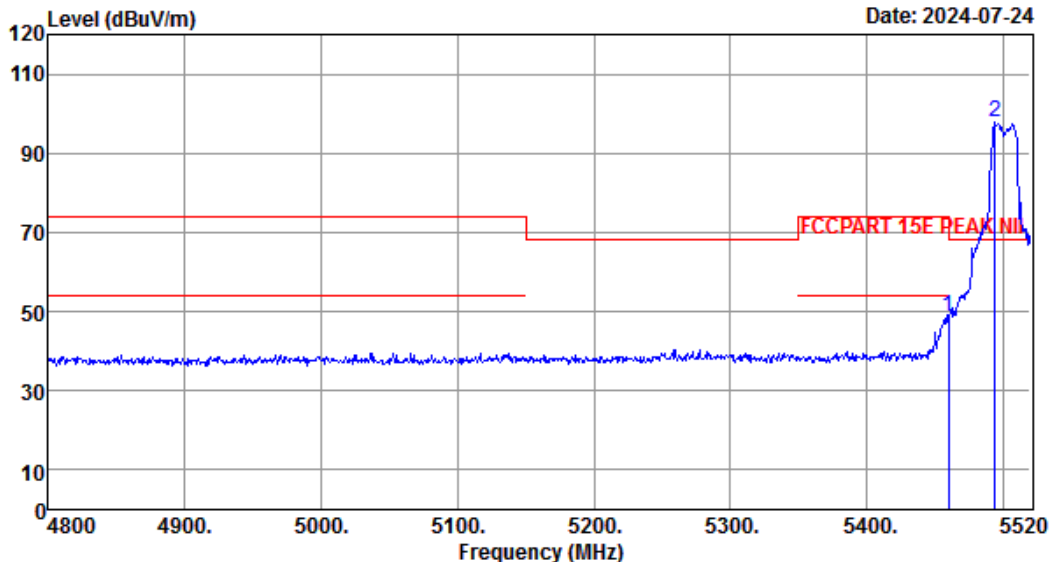
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Data: 45

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 45
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	33.70	7.38	42.96	50.50	48.62	68.20	19.58	Peak
2	5494.08	33.50	7.41	42.95	99.94	97.90	68.20	-29.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

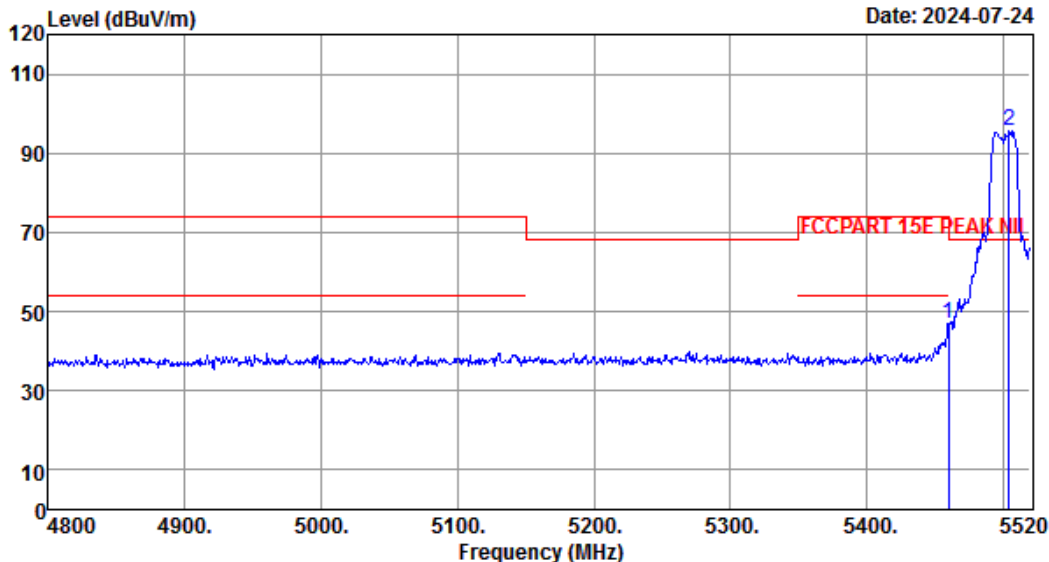
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Data: 46

File: \\EMC-966-5\Test Data\2024\RF\SI\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 46
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.00	33.70	7.38	42.96	48.84	46.96	68.20	21.24	Peak
2	5504.16	33.40	7.42	42.95	97.77	95.64	68.20	-27.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

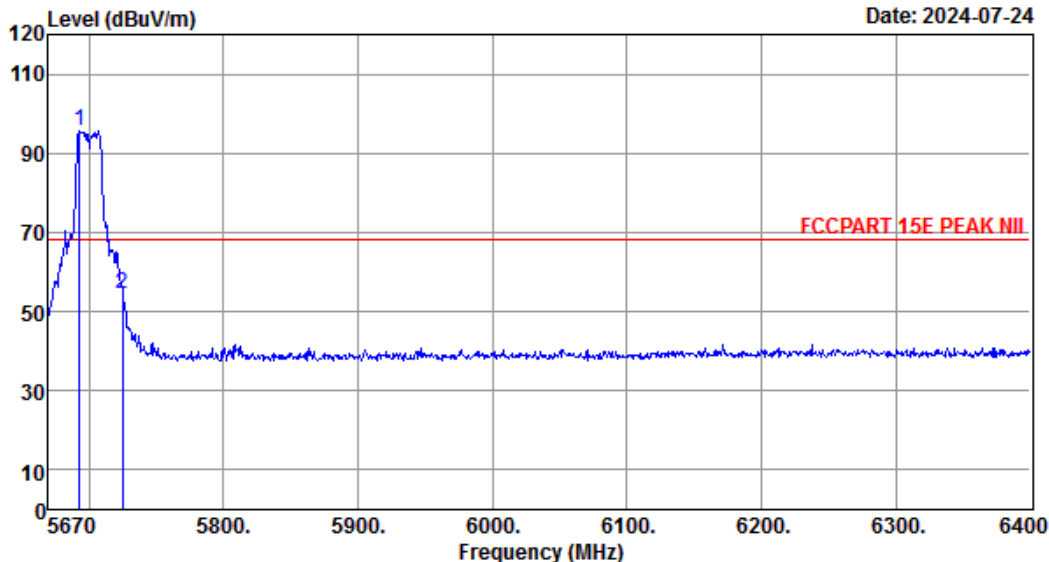
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Data: 47

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 47
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5693.36	34.30	7.60	42.89	96.61	95.62	68.20	-27.42	Peak
2	5725.00	34.63	7.63	42.88	55.08	54.46	68.20	13.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

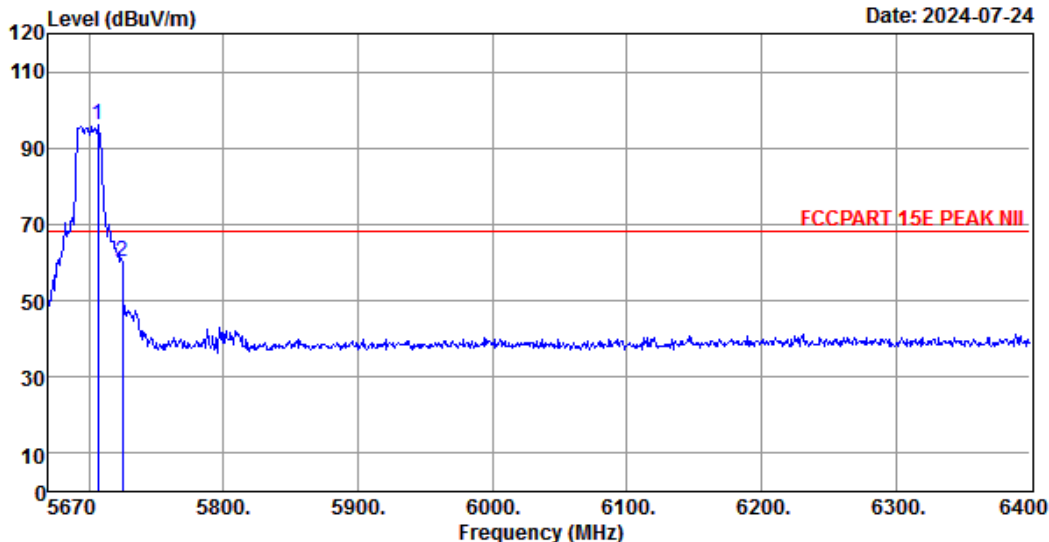
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Data: 48

File: \\EMC-966-5\Test Data\2024\RF\IS\Shan Chuan\HOME-S10U-FCC.EM6 (182)

Date: 2024-07-24



Site no. : 5# 966 Chamber Data no. : 48
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5℃;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Robot Vacuum
Power : DC 14.4V From Battery
M/N : HOME-S10U
Test Mode : IEEE 802.11n HT20 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5706.50	34.47	7.61	42.89	96.71	95.90	68.20	-27.70	Peak
2	5725.00	34.63	7.63	42.88	60.94	60.32	68.20	7.88	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official
limit are not reported.



Band 4

Refer to section 10: Appendix E

18000MHz-40000MHz

Pass

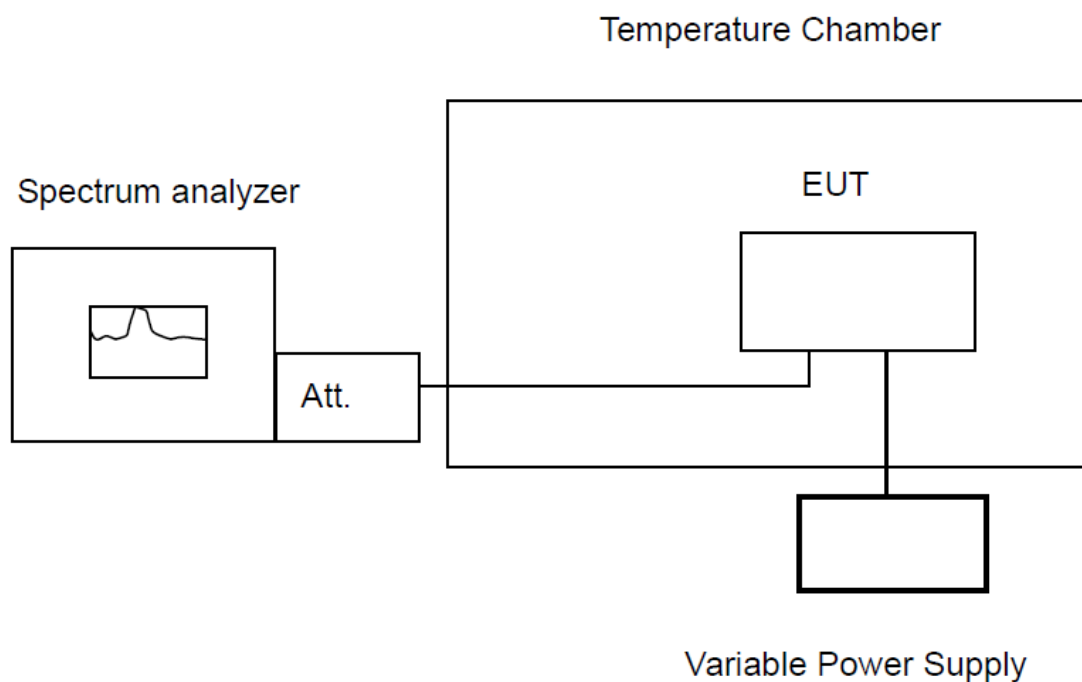
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7.FREQUENCY STABILITY

7.1.Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

7.2.Test Setup



7.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4.Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to +50°C in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature (+15°C to +25°C) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5.Test Result

Refer to section 10: Appendix G

8.AC POWER LINE CONDUCTED EMISSIONS

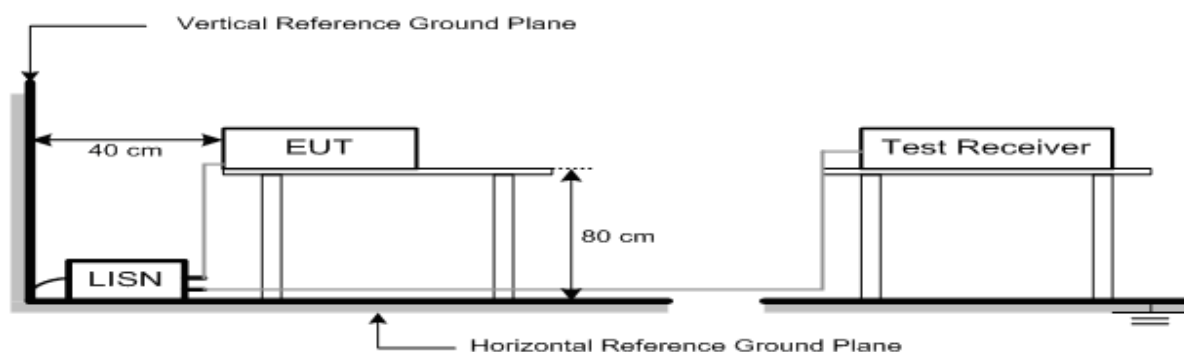
8.1.Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2.Test Setup



8.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

8.4.Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5.Test Result

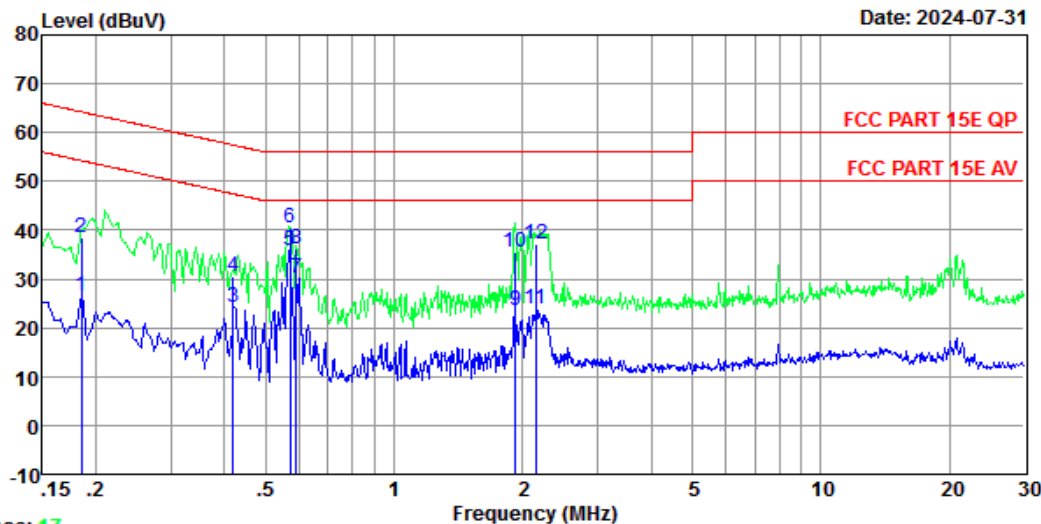
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Data: 18

File: \\EMC-CE-3\Test Data2\2024\RF\SI\Shan Chuan\HOME-S10U.EM6 (28)

Date: 2024-07-31



Trace: 17
Site no : 3#CE Shield Room Data no. : 18
Env. / Ins. : Temp:25.3℃;Humi:59%;Press:101.1kPa LINE Phase : LINE
Limit : FCC PART 15E QP
Engineer : Wind
EUT : Robot Vauum
Power : AC 120V/60Hz
M/N : HOME-S10U
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.19	10.00	9.82	6.83	26.65	54.24	27.59	Average
2	0.19	10.00	9.82	18.57	38.39	64.24	25.85	QP
3	0.42	10.24	9.83	4.22	24.29	47.46	23.17	Average
4	0.42	10.24	9.83	10.45	30.52	57.46	26.94	QP
5	0.57	10.16	9.83	15.96	35.95	46.00	10.05	Average
6	0.57	10.16	9.83	20.65	40.64	56.00	15.36	QP
7	0.59	10.16	9.83	10.34	30.33	46.00	15.67	Average
8	0.59	10.16	9.83	16.26	36.25	56.00	19.75	QP
9	1.93	10.15	9.85	3.61	23.61	46.00	22.39	Average
10	1.93	10.15	9.85	15.36	35.36	56.00	20.64	QP
11	2.14	10.14	9.85	3.92	23.91	46.00	22.09	Average
12	2.14	10.14	9.85	17.28	37.27	56.00	18.73	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

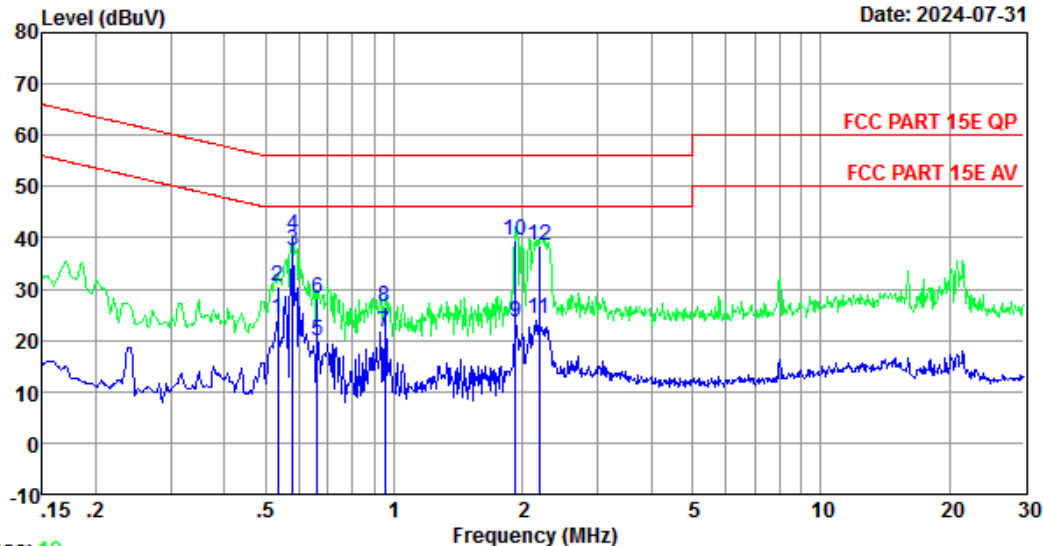
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Data: 20

File: \\EMC-CE-3\Test Data2\2024\RF\SI\Shan Chuan\HOME-S10U.EM6 (28)

Date: 2024-07-31



Site no : 3#CE Shield Room Data no. : 20
Env. / Ins. : Temp:25.3°C;Humi:59%;Press:101.1kPa LINE Phase : NEUTRAL
Limit : FCC PART 15E QP
Engineer : Wind
EUT : Robot Vauum
Power : AC 120V/60Hz
M/N : HOME-S10U
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.53	10.14	9.83	4.32	24.29	46.00	21.71	Average
2	0.53	10.14	9.83	10.63	30.60	56.00	25.40	QP
3	0.58	10.13	9.83	17.54	37.50	46.00	8.50	Average
4	0.58	10.13	9.83	20.47	40.43	56.00	15.57	QP
5	0.66	10.10	9.83	0.02	19.95	46.00	26.05	Average
6	0.66	10.10	9.83	8.27	28.20	56.00	27.80	QP
7	0.95	10.14	9.84	1.70	21.68	46.00	24.32	Average
8	0.95	10.14	9.84	6.52	26.50	56.00	29.50	QP
9	1.93	10.22	9.85	3.35	23.42	46.00	22.58	Average
10	1.93	10.22	9.85	19.52	39.59	56.00	16.41	QP
11	2.19	10.22	9.85	4.15	24.22	46.00	21.78	Average
12	2.19	10.22	9.85	18.48	38.55	56.00	17.45	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

9.ANTENNA REQUIREMENTS

9.1.Limit

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2.Test Result

The antennas used for this product is internal antenna ,so compliance with antenna requirements. (Please refer to the EUT photo for details)

10.APPENDIX

Appendix A1: Emission Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.760	5169.520	5190.280	---	---
11A	Ant1	5200	20.080	5190.000	5210.080	---	---
11A	Ant1	5240	20.680	5229.440	5250.120	---	---
11A	Ant1	5260	20.480	5249.800	5270.280	---	---
11A	Ant1	5300	20.520	5289.640	5310.160	---	---
11A	Ant1	5320	20.320	5310.000	5330.320	---	---
11A	Ant1	5500	20.440	5489.680	5510.120	---	---
11A	Ant1	5580	20.280	5569.760	5590.040	---	---
11A	Ant1	5700	20.760	5689.880	5710.640	---	---
11A	Ant1	5745	20.360	5734.760	5755.120	---	---
11A	Ant1	5785	21.080	5774.200	5795.280	---	---
11A	Ant1	5825	20.240	5814.800	5835.040	---	---
11N20SISO	Ant1	5180	20.800	5169.680	5190.480	---	---
11N20SISO	Ant1	5200	21.320	5189.320	5210.640	---	---
11N20SISO	Ant1	5240	21.320	5229.280	5250.600	---	---
11N20SISO	Ant1	5260	21.160	5249.480	5270.640	---	---
11N20SISO	Ant1	5300	21.240	5289.440	5310.680	---	---
11N20SISO	Ant1	5320	21.160	5309.440	5330.600	---	---
11N20SISO	Ant1	5500	21.040	5489.440	5510.480	---	---
11N20SISO	Ant1	5580	21.440	5569.160	5590.600	---	---
11N20SISO	Ant1	5700	21.440	5689.320	5710.760	---	---
11N20SISO	Ant1	5745	20.880	5734.440	5755.320	---	---
11N20SISO	Ant1	5785	21.240	5774.360	5795.600	---	---
11N20SISO	Ant1	5825	21.200	5814.400	5835.600	---	---
11N40SISO	Ant1	5190	40.880	5170.000	5210.880	---	---
11N40SISO	Ant1	5230	42.240	5208.960	5251.200	---	---
11N40SISO	Ant1	5270	41.440	5249.600	5291.040	---	---
11N40SISO	Ant1	5310	41.360	5289.360	5330.720	---	---
11N40SISO	Ant1	5510	40.960	5489.520	5530.480	---	---
11N40SISO	Ant1	5590	41.600	5569.040	5610.640	---	---
11N40SISO	Ant1	5670	41.920	5649.280	5691.200	---	---
11N40SISO	Ant1	5755	42.400	5733.720	5776.120	---	---
11N40SISO	Ant1	5795	41.280	5774.360	5815.640	---	---
11AC20SISO	Ant1	5180	20.800	5169.600	5190.400	---	---
11AC20SISO	Ant1	5200	22.360	5189.240	5211.600	---	---
11AC20SISO	Ant1	5240	21.440	5229.280	5250.720	---	---
11AC20SISO	Ant1	5260	21.280	5249.400	5270.680	---	---
11AC20SISO	Ant1	5300	21.200	5289.280	5310.480	---	---
11AC20SISO	Ant1	5320	21.240	5309.560	5330.800	---	---
11AC20SISO	Ant1	5500	21.560	5489.520	5511.080	---	---
11AC20SISO	Ant1	5580	21.280	5569.480	5590.760	---	---
11AC20SISO	Ant1	5700	21.360	5689.520	5710.880	---	---
11AC20SISO	Ant1	5745	21.360	5734.280	5755.640	---	---
11AC20SISO	Ant1	5785	21.120	5774.360	5795.480	---	---
11AC20SISO	Ant1	5825	21.160	5814.400	5835.560	---	---
11AC40SISO	Ant1	5190	41.360	5169.520	5210.880	---	---
11AC40SISO	Ant1	5230	40.720	5209.520	5250.240	---	---
11AC40SISO	Ant1	5270	41.360	5249.440	5290.800	---	---
11AC40SISO	Ant1	5310	41.760	5289.200	5330.960	---	---
11AC40SISO	Ant1	5510	41.520	5489.120	5530.640	---	---



11AC40SISO	Ant1	5590	41.600	5569.200	5610.800	---	---
11AC40SISO	Ant1	5670	42.160	5648.800	5690.960	---	---
11AC40SISO	Ant1	5755	41.440	5734.360	5775.800	---	---
11AC40SISO	Ant1	5795	41.200	5774.040	5815.240	---	---
11AC80SISO	Ant1	5210	80.640	5169.680	5250.320	---	---
11AC80SISO	Ant1	5290	80.960	5249.360	5330.320	---	---
11AC80SISO	Ant1	5530	80.640	5489.680	5570.320	---	---
11AC80SISO	Ant1	5610	81.600	5569.520	5651.120	---	---
11AC80SISO	Ant1	5775	80.160	5735.000	5815.160	---	---

Test Graphs

11A-Ant1-5180



11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5260



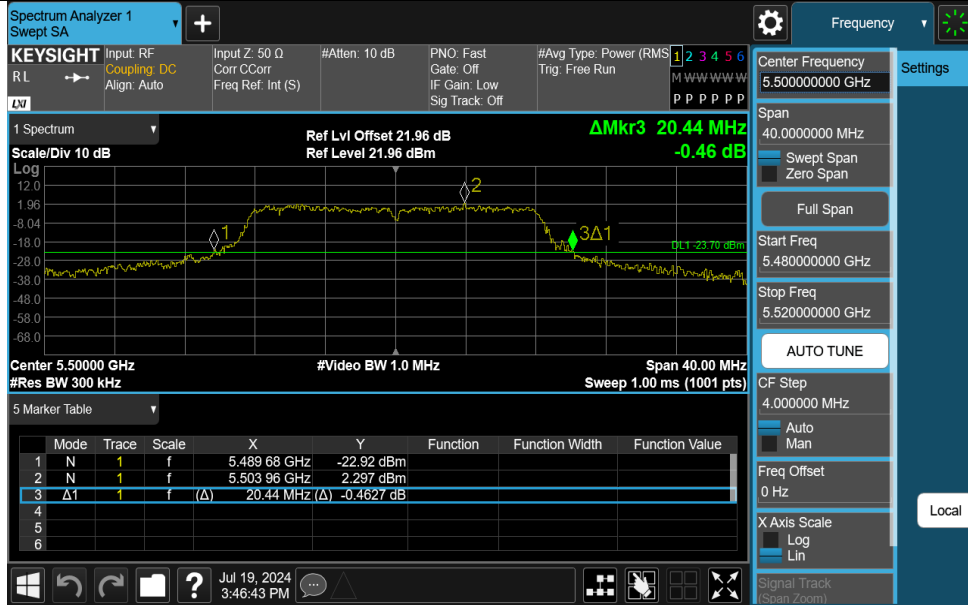
11A-Ant1-5300



11A-Ant1-5320



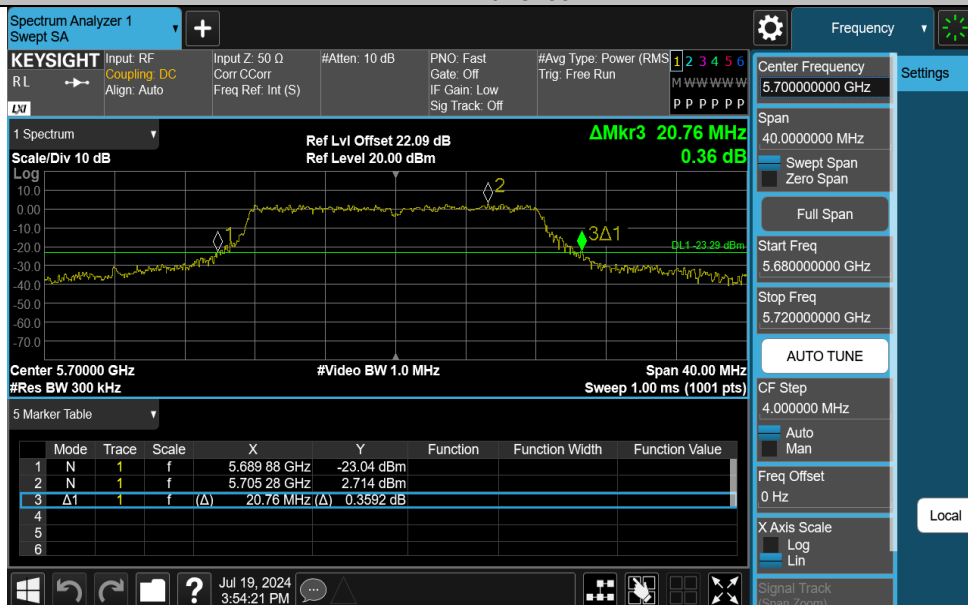
11A-Ant1-5500



11A-Ant1-5580



11A-Ant1-5700



11A-Ant1-5745



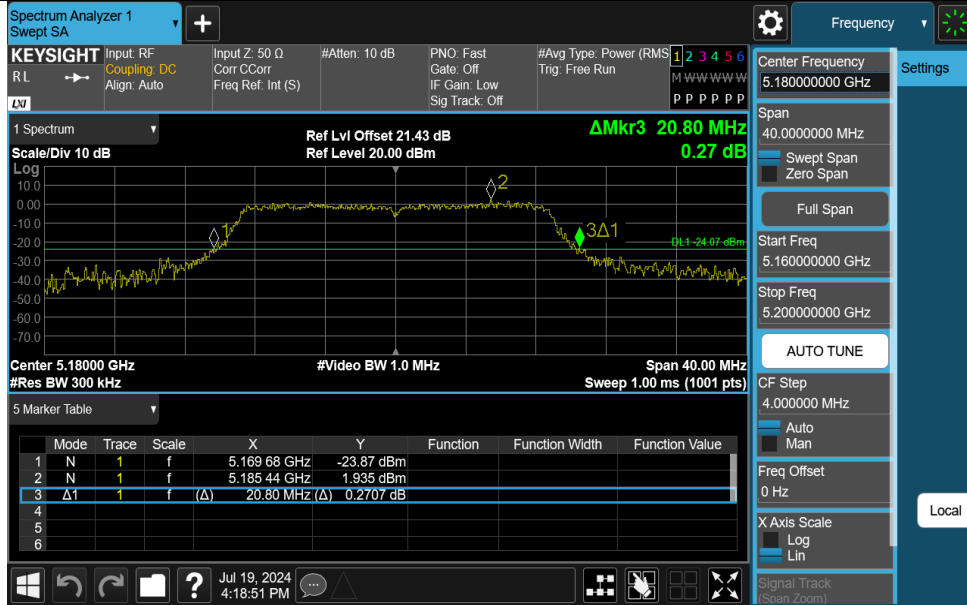
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11A-Ant1-5825



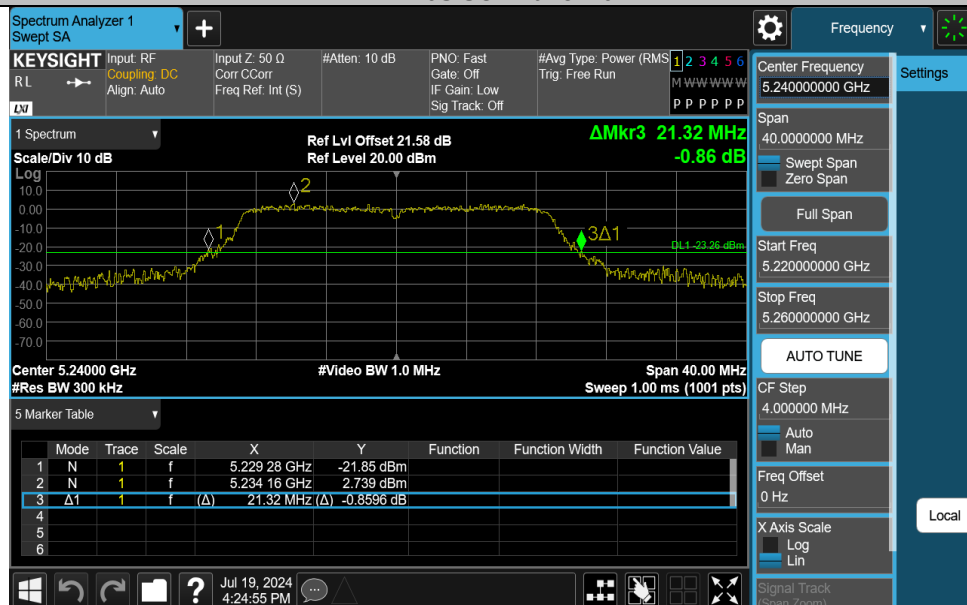
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11N20SISO-Ant1-5200



11N20SISO-Ant1-5240



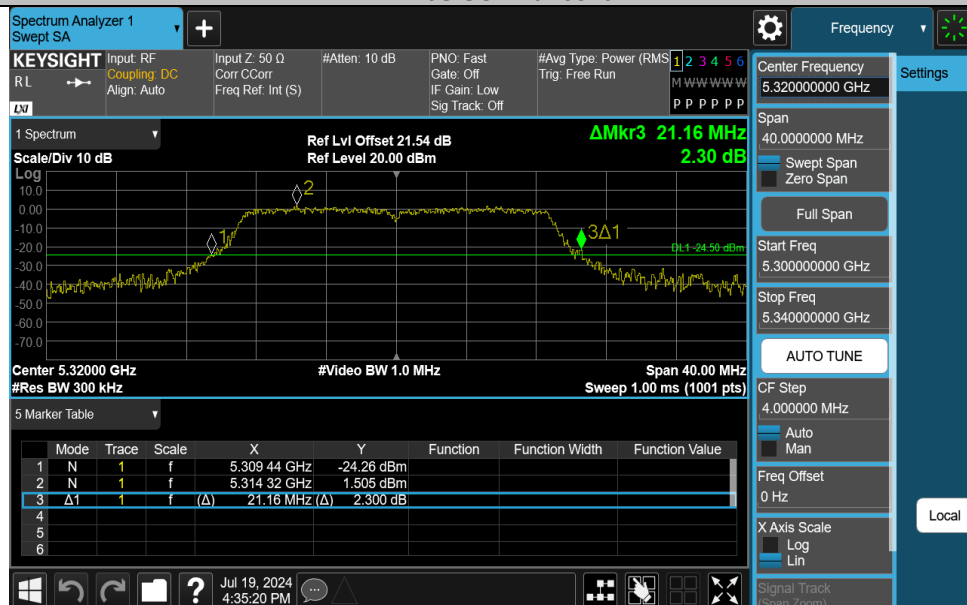
11N20SISO-Ant1-5260



11N20SISO-Ant1-5300



11N20SISO-Ant1-5320



11N20SISO-Ant1-5500



11N20SISO-Ant1-5580



11N20SISO-Ant1-5700



11N20SISO-Ant1-5745



11N20SISO-Ant1-5785



11N20SISO-Ant1-5825



11N40SISO-Ant1-5190



11N40SISO-Ant1-5230



11N40SISO-Ant1-5270

