

FCC PART 15E TEST REPORT FOR CERTIFICATION On Behalf of

Eastech (Huizhou) Co., Ltd

5.1.2CH Soundbar with Wireless Subwoofer

Model Number: S5120Q

Additional Model: S5120R, S5120S, S5120QW, S5121Q, S5121R, S5121S, S512Q,
S512LQ, S512S, S512LS, S512R, S512LR, S8Q, S8LQ, S8R, S8LR, SL80Q,
SL81Q, SL80R, SL81R, T8, T8Q, T8R, T8S, A3120Q, A7140Q, S7140Q,
S7140QW, S7140S, S7140SW, S70, S700, S71, S701, S5120DE,
S5120WDE, A5120S, A5120SW, RA-B770, RA-B770F, T80QW, T5120Q

FCC ID: 2BWL4-S5120Q

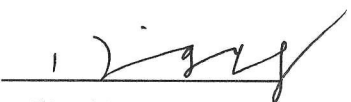
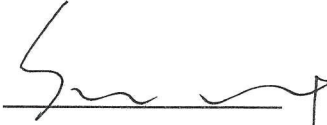
Applicant:	Eastech (Huizhou) Co., Ltd
Address:	BLD 6, Meilonghu (Phase II), Xinxu, Huiyang,
	Huizhou 516000, China
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2607318
Date of Test:	Jun. 23, 2026 to Jul. 20, 2026
Date of Report:	Jul. 24, 2026

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	7
1.3. Information of RF Cable	7
2. SUMMARY OF TEST	8
2.1. Summary of test result	8
2.2. Test Facilities.....	9
2.3. Measurement uncertainty for EST Technology Co., Ltd.....	10
2.4. Assistant equipment used for test	10
2.5. Block Diagram	10
2.6. Test Mode	11
2.7. Channel List.....	14
2.8. Power Setting of Test Software	15
2.9. Duty Cycle of Test Signal	17
2.10. Test Equipment List.....	18
3. 6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH	19
3.1. Limit.....	19
3.2. Test Setup.....	19
3.3. Spectrum Analyzer Setting.....	19
3.4. Test Procedure.....	20
3.5. Test Result.....	20
4. MAXIMUM CONDUCTED OUTPUT POWER	21
4.1. Limit.....	21
4.2. Test Setup.....	21
4.3. Spectrum Analyzer Setting.....	21
4.4. Test Procedure.....	22
4.5. Test Result.....	22
5. PEAK POWER SPECTRAL DENSITY	23
5.1. Limit.....	23
5.2. Test Setup.....	23
5.3. Spectrum Analyzer Setting.....	23
5.4. Test Procedure.....	23
5.5. Test Result.....	23
6. UNWANTED EMISSIONS AND BAND EDGE	24
6.1. Limit.....	24
6.2. Test Setup.....	25
6.3. Spectrum Analyzer Setting.....	26
6.4. Test Procedure.....	27
6.5. Test Result.....	28
7. FREQUENCY STABILITY	67
7.1. Limit.....	67
7.2. Test Setup.....	67

7.3. Spectrum Analyzer Setting.....	67
7.4. Test Procedure.....	68
7.5. Test Result.....	68
8. AC POWER LINE CONDUCTED EMISSIONS.....	69
8.1. Limit.....	69
8.2. Test Setup.....	69
8.3. Spectrum Analyzer Setting.....	69
8.4. Test Procedure.....	69
8.5. Test Result.....	70
9. ANTENNA REQUIREMENTS.....	72
9.1. Limit.....	72
9.2. Test Result.....	72
10. TEST SETUP PHOTO.....	73
11. EUT PHOTO	75

Applicant:	Eastech (Huizhou) Co., Ltd		
Address:	BLD 6, Meilonghu (Phase II), Xinxu, Huiyang, Huizhou 516000, China		
Manufacturer:	Eastech (Huizhou) Co., Ltd		
Address:	BLD 6, Meilonghu (Phase II), Xinxu, Huiyang, Huizhou 516000, China		
E.U.T:	5.1.2CH Soundbar with Wireless Subwoofer		
Model Number:	S5120Q		
Additional Model:	S5120R, S5120S, S5120QW, S5121Q, S5121R, S5121S, S512Q, S512LQ, S512S, S512LS, S512R, S512LR, S8Q, S8LQ, S8R, S8LR, SL80Q, SL81Q, SL80R, SL81R, T8, T8Q, T8R, T8S, A3120Q, A7140Q, S7140Q, S7140QW, S7140S, S7140SW, S70, S700, S71, S701, S5120DE, S5120WDE, A5120S, A5120SW, RA-B770, RA-B770F, T80QW, T5120Q Note: All models are the same with each other only except for model Number, appearance color and trade mark for marketing purpose.		
Power Supply:	DC 24V From Adapter Input AC 100-240V, 50/60Hz		
Trade Name:	Hisense, REGZA, Toshiba	Sample No.:	EST-260630008-003
Date of Receipt:	Jun. 23, 2026	Date of Test:	Jun. 23, 2026 to Jul. 20, 2026
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2020 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:	Reviewed by:	Date: Aug. 25, 2026	
			
Ring Yang / Assistant	Seven Wang / Engineer	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. The statement of compliance in this report is based on the limit in the test standard, the measurement uncertainty is not considered.

1.GENERAL INFORMATION

1.1.Description of Device (EUT)

FCC ID	:	2BWL4-S5120Q
Product Name	:	5.1.2CH Soundbar with Wireless Subwoofer
Model Number	:	S5120Q
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 / ax HE20: 4 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels; IEEE 802.11ac VHT80 / ax HE80: 1 Channel. U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels; IEEE 802.11ac VHT80 / ax HE80: 1 Channel. U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20 ax HE20: 11 Channels; IEEE 802.11n HT40 / ac VHT40 / ax HE40: 5 Channels; IEEE 802.11ac VHT80 / ax HE80: 2 Channel. U-NII-3: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 5 Channels; IEEE 802.11n HT40 / ac VHT40/ ax HE40: 2 Channels; IEEE 802.11ac VHT80 / ax HE80: 1 Channel.
Modulation	:	IEEE 802.11a mode: OFDM IEEE 802.11n mode: OFDM IEEE 802.11ac mode: OFDM IEEE 802.11ax mode: OFDMA
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n: up 300Mbps; IEEE 802.11ac: up to 866Mbps; IEEE 802.11ax: up to 1201Mbps.
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; IEEE 802.11ax HE20: 20MHz; IEEE 802.11ax HE40: 40MHz; IEEE 802.11ax HE80: 80MHz.

Transmit Power	:		IEEE 802.11a: 18.29dBm IEEE 802.11n HT20: 14.97dBm IEEE 802.11n HT40: 15.76dBm IEEE 802.11ac VHT20: 14.70dBm IEEE 802.11ac VHT40: 16.26dBm IEEE 802.11ac VHT80: 16.05dBm IEEE 802.11ax HE20: 15.85dBm IEEE 802.11ax HE40: 15.54dBm IEEE 802.11ax HE80: 15.81dBm
		U-NII-2A	IEEE 802.11a: 18.02dBm IEEE 802.11n HT20: 16.36dBm IEEE 802.11n HT40: 17.23dBm IEEE 802.11ac VHT20: 16.36dBm IEEE 802.11ac VHT40: 17.13dBm IEEE 802.11ac VHT80: 15.56dBm IEEE 802.11ax HE20: 17.14dBm IEEE 802.11ax HE40: 16.26dBm IEEE 802.11ax HE80: 15.38dBm
		U-NII-2C	IEEE 802.11a: 18.87dBm IEEE 802.11n HT20: 16.10dBm IEEE 802.11n HT40: 17.75dBm IEEE 802.11ac VHT20: 16.73dBm IEEE 802.11ac VHT40: 17.57dBm IEEE 802.11ac VHT80: 16.40dBm IEEE 802.11ax HE20: 17.74dBm IEEE 802.11ax HE40: 16.91dBm IEEE 802.11ax HE80: 16.02dBm
		U-NII-3	IEEE 802.11a: 18.88dBm IEEE 802.11n HT20: 16.05dBm IEEE 802.11n HT40: 17.87dBm IEEE 802.11ac VHT20: 16.95dBm IEEE 802.11ac VHT40: 17.53dBm IEEE 802.11ac VHT80: 16.37dBm IEEE 802.11ax HE20: 17.73dBm IEEE 802.11ax HE40: 16.77dBm IEEE 802.11ax HE80: 15.88dBm
Sample Type	:	Prototype production	
Note: The product information is provided by the manufacturer. The laboratory is not responsible for this data.			

1.2.The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
0	-	-	Internal	-	3.11
1	-	-	Internal	-	2.88

Remark:

- (1) The EUT can work as CDD mode in IEEE 802.11n, IEEE 802.11ac and IEEE 802.11ax, and can operate with one spatial stream.

According to KDB 662911 F 2) f) (ii):

$$\text{Directional gain} = 10 \times \log[(10^{3.11/20} + 10^{2.88/20})^2 / 2] = 6.01 \text{ dBi} > 6 \text{ dBi}$$

So, the output power limit and power spectral density should be reduced.

- (2) After pre-test all antenna configurations, the worst case configuration as list below.
- (3) The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
- (4) The test results of this report only apply to the sample as received.

ANT No. TX Mode	SISO Configuration	MIMO Configuration
IEEE 802.11a	ANT 0 and Ant 1	/
IEEE 802.11n HT20	/	ANT0+ANT1
IEEE 802.11n HT40	/	ANT0+ANT1
IEEE 802.11ac VHT20	/	ANT0+ANT1
IEEE 802.11ac VHT40	/	ANT0+ANT1
IEEE 802.11ac VHT80	/	ANT0+ANT1
IEEE 802.11ax HE20	/	ANT0+ANT1
IEEE 802.11ax HE40	/	ANT0+ANT1
IEEE 802.11ax HE80	/	ANT0+ANT1

1.3.Information of RF Cable

Cable Loss(dB)	Provided by
1.33	Eastech (Huizhou) 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, 2028

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: January 31, 2028

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: January 31, 2028

Recognized by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2026
This Recognition is valid until: Apr. 19, 2029

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 conducted RF Power	0.53dB
Uncertainty for Conduction emission test	0.46dB
Uncertainty for Power density test	0.46dB
Uncertainty for radio frequency	2×10^{-5}
Uncertainty for spurious emissions test (9kHz-30MHz)	± 2.88

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

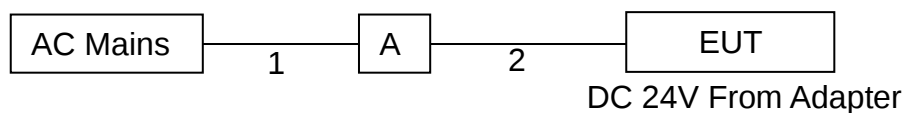
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
A	Adapter	-	ADS-65HI-19A-2 24048E	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable
2	NO	NO	1.5m	DC Cable

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.



(EUT: 5.1.2CH Soundbar with Wireless Subwoofer)

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
	IEEE 802.11ax HE20	149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	155	OFDMA	MCS0
26dB 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
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	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
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	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
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	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
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	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
	IEEE 802.11ax HE20	36/40/48/52/60/64/100/116/140/ 149/157/165	OFDMA	MCS0
	IEEE 802.11ax HE40	38/46/54/62/102/118/134/151/159	OFDMA	MCS0
	IEEE 802.11ax HE80	42/58/106/122/155	OFDMA	MCS0

Unwanted Emissions Below 1GHz	IEEE 802.11a	36	OFDM	6Mbps
Frequency Stability	Unmodulation	36/52/100/149	N/A	N/A
AC Power Line Conducted Emissions	IEEE 802.11a	36	OFDM	6Mbps

Note 1: 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**.

Note 2: For the 802.11ax mode, Partial RU has been evaluated. The report only presents the poorer results of full RU.

2.7.Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-1	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	36	5180
		40	5200
		44	5220
		48	5240
	IEEE 802.11n HT40 & ac VHT40 & ax HE40	38	5190
		46	5230
	IEEE 802.11ac VHT80 & ax HE80	42	5210
U-NII-2A	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	52	5260
		56	5280
		60	5300
		64	5320
	IEEE 802.11n HT40 & ac VHT40 & ax HE40	54	5270
		62	5310
	IEEE 802.11ac VHT80 & ax HE80	58	5290
U-NII-2C	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	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 & ax HE40	102	5510
		110	5550
		118	5590
		126	5630
	IEEE 802.11ac VHT80 & ax HE80	134	5670
		106	5530
		122	5610
		149	5745
		153	5765
U-NII-3	IEEE 802.11a & n HT20 & ac VHT20 & ax HE20	157	5785
		161	5805
		165	5825
		151	5755
		159	5795
	IEEE 802.11ac VHT80 & ax HE80	155	5775

2.8.Power Setting of Test Software

Software Name	MobaXterm_Personal_26.0.exe		
U-NII-1			
Frequency(MHz)	5180	5200	5240
IEEE 802.11a Setting	8	8	8
IEEE 802.11n HT20 Setting	2	2	2
IEEE 802.11ac VHT20 Setting	2	2	2
IEEE 802.11ax HE20 Setting	2	2	2
Frequency(MHz)	5190	5230	
IEEE 802.11n HT40 Setting	2	2	
IEEE 802.11ac VHT40 Setting	3	3	
IEEE 802.11ax HE40 Setting	3	3	
Frequency(MHz)	5210		
IEEE 802.11ac VHT80 Setting	2		
IEEE 802.11ax HE80 Setting	4		
U-NII-2A			
Frequency(MHz)	5260	5300	5320
IEEE 802.11a Setting	8	8	8
IEEE 802.11n HT20 Setting	3	3	3
IEEE 802.11ac VHT20 Setting	4	4	4
IEEE 802.11ax HE20 Setting	4	4	4
Frequency(MHz)	5270	5310	
IEEE 802.11n HT40 Setting	4	4	
IEEE 802.11ac VHT40 Setting	4	4	
IEEE 802.11ax HE40 Setting	4	4	
Frequency(MHz)	5290		
IEEE 802.11ac VHT80 Setting	4		
IEEE 802.11ax HE80 Setting	4		

U-NII-2C			
Frequency(MHz)	5500	5580	5700
IEEE 802.11a Setting	8	8	8
IEEE 802.11n HT20 Setting	3	3	3
IEEE 802.11ac VHT20 Setting	4	4	4
IEEE 802.11ax HE20 Setting	4	4	4
Frequency(MHz)	5510	5590	5670
IEEE 802.11n HT40 Setting	4	4	4
IEEE 802.11ac VHT40 Setting	4	4	4
IEEE 802.11ax HE40 Setting	4	4	4
Frequency(MHz)	5530	5610	
IEEE 802.11ac VHT80 Setting	4	4	
IEEE 802.11ax HE80 Setting	4	4	
U-NII-3			
Frequency(MHz)	5745	5785	5825
IEEE 802.11a Setting	8	8	8
IEEE 802.11n HT20 Setting	3	3	3
IEEE 802.11ac VHT20 Setting	4	4	4
IEEE 802.11ax HE20 Setting	4	4	4
Frequency(MHz)	5755	5795	
IEEE 802.11n HT40 Setting	4	4	
IEEE 802.11ac VHT40 Setting	4	4	
IEEE 802.11ax HE40 Setting	4	4	
Frequency(MHz)	5775		
IEEE 802.11ac VHT80 Setting	4		
IEEE 802.11ax HE80 Setting	4		

Note: This information is provided by the applicant.

2.9.Duty Cycle of Test Signal

Refer to Appendix B of Appendix FCC ID 5G Wi-Fi (the test data).

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.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI3	EST-E071	Jun. 11, 2026	Jun. 10, 2027
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	Jun. 11, 2026	Jun. 10, 2027
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E072	Jun. 11, 2026	Jun. 10, 2027
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	Jun. 11, 2026	Jun. 10, 2027
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A
NOTE: Test uncertainty: $\pm 3.42\text{dB}$ at a level of confidence of 95%.(2#CE)					

For radiated emission test(9kHz-30MHz)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	June 11,26	June 10,27
Active Loop Antenna	SCHWARBECK	FMZB 1519B	EST-E054	June 11,26	June 10,27
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A

For radiated emissions test (30MHz-1000MHz)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E105	Jun. 11, 2026	Jun. 10, 2027
Bilog Antenna	Teseq	CBL 6111D	EST-E104	Jun. 11, 2026	Jun. 10, 2027
Cable	/	/	EST-E327	Jun. 11, 2026	Jun. 10, 2027
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A
Note: Test uncertainty: $\pm 4.74\text{ dB (H)}$; $\pm 4.98\text{ dB (V)}$ at a level of confidence of 95%.(5#966)					

For radiated emission test(Above 1000MHz)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	June 11,26	June 10,27
Horn Antenna	Com-Power	AHA-840	EST-E133	June 11,26	June 10,27
Low Noise Amplifier	RF	TRLA-010180G45N	EST-E142	June 11,26	June 10,27
Spectrum Analyzer	Rohde &Schwarz	FSV40	EST-E069	June 11,26	June 10,27
1#966Cable	/	/	EST-E330	June 11,26	June 10,27
5#966Cable	/	/	EST-E310	June 11,26	June 10,27
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A
Note: Test uncertainty: $\pm 5.08\text{ dB (1GHz-18GHz)}$; $\pm 5.10\text{ dB (18GHz-40GHz)}$ at a level of confidence of 95%.					

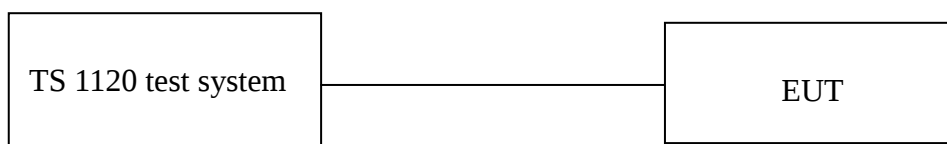
For connect EUT antenna terminal test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/
Test Software	Tonscend	JS1120-3	3.5.39	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	June 11,26	June 10,27
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	June 11,26	June 10,27

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 Appendix A1/A2/A3 of Appendix FCC ID 5G Wi-Fi (the test data).

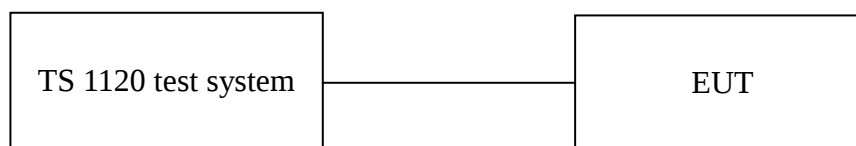
4.MAXIMUM CONDUCTED OUTPUT POWER

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

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. 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

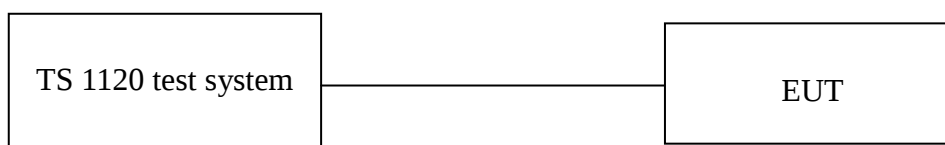
Refer to Appendix C of Appendix FCC ID 5G Wi-Fi (the test data).

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 Appendix D of Appendix FCC ID 5G Wi-Fi (the test data).

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

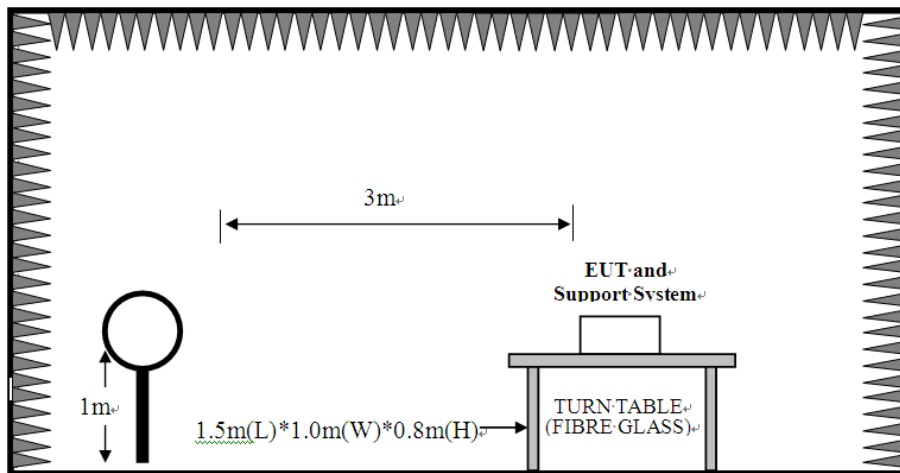
$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$$

where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.

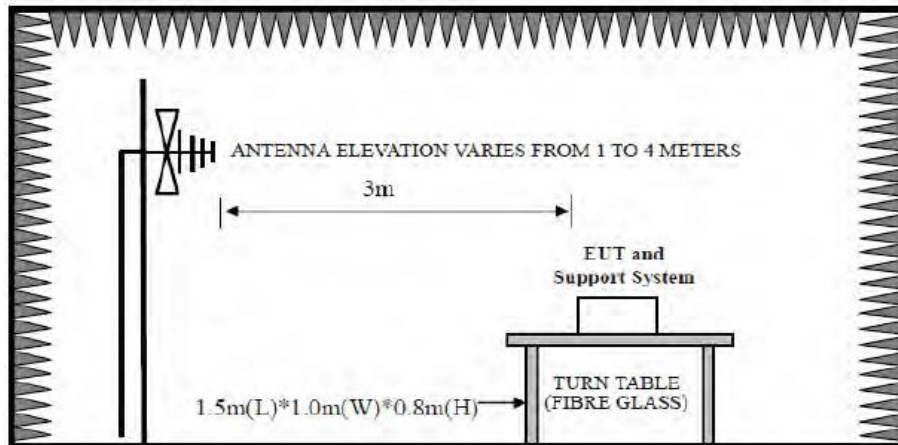
for example, 3m field strength($\text{dB}\mu\text{V/m}$)= $\text{EIRP}-20\log(3)+104.77=\text{EIRP}+95.2$

6.2.Test Setup

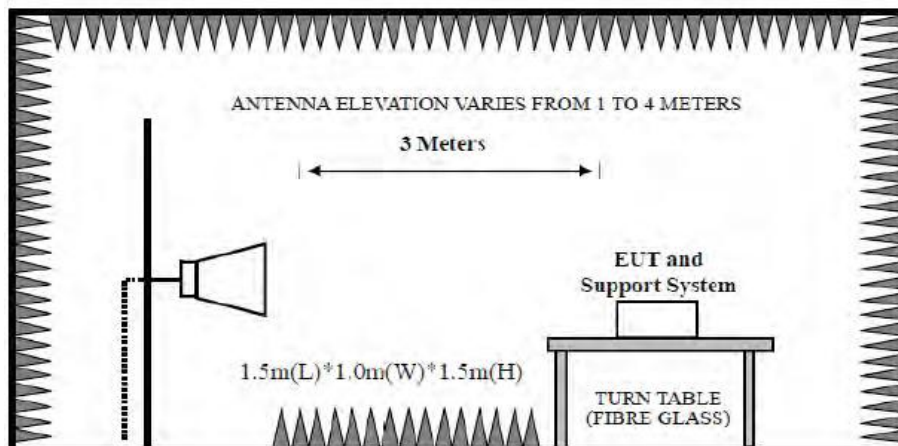
9kHz~30MHz



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 of the duty cycle, when EUT is continuously emitted Maximum output power, in seconds. Refer to Section 2.8 on time.

6.4.Test Procedure

- a. 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.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. 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.
- f. Spectrum analyzer setting parameters in accordance with section 6.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.
- i. IEEE 802.11a, IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80, IEEE 802.11ax HE20, IEEE 802.11ax HE40, IEEE 802.11ax HE80 all have been tested, only worst case IEEE 802.11ax HE20.

6.5.Test Result

Radiated Emissions Below 1GHz

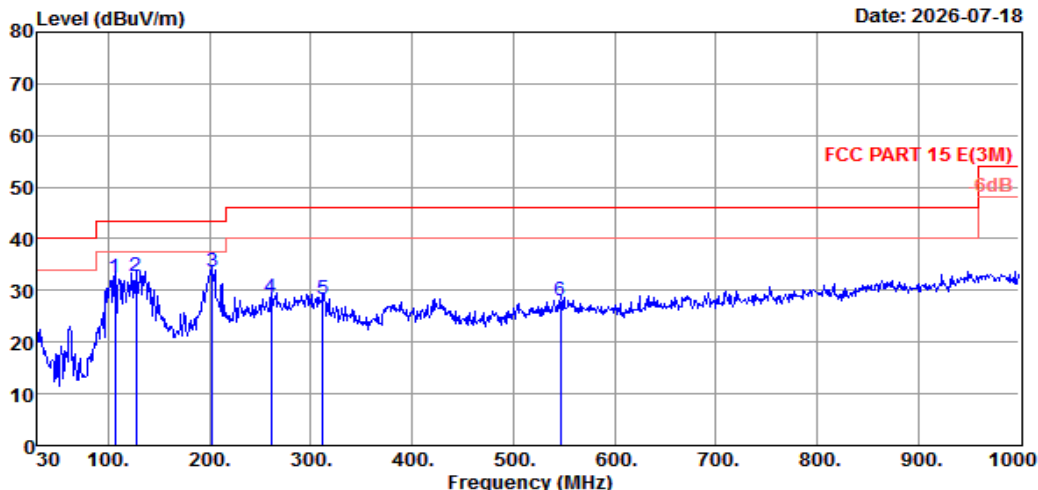
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Data: 223

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (228)

Date: 2026-07-18



Site no. : 5# 966 Chamber Data no. : 223
Dis. / Ant. : 3m 54681 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Shadow Yang
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : TX Mode
Sample No. : EST-260630008-003

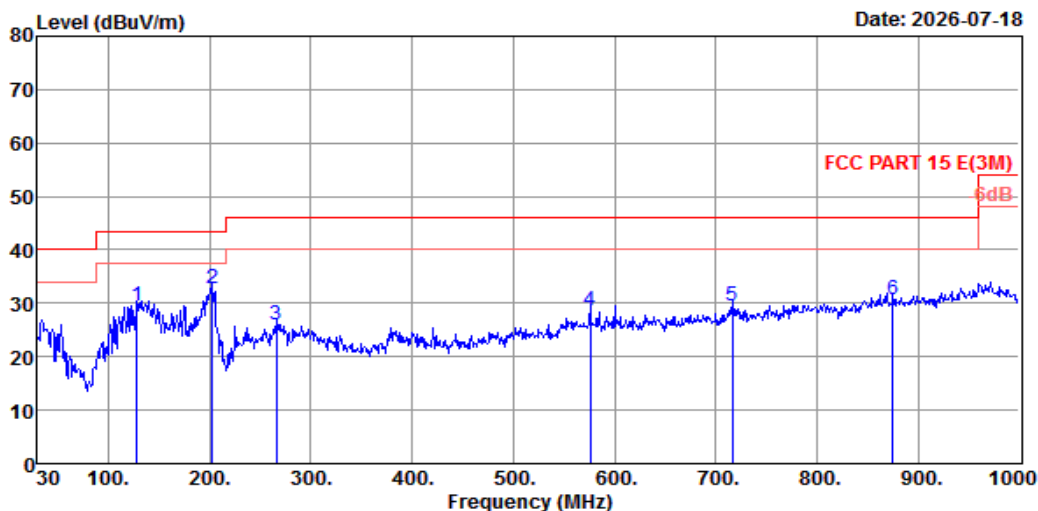
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	106.63	11.20	1.78	19.60	32.58	43.50	10.92	QP
2	127.00	12.50	1.94	18.45	32.89	43.50	10.61	QP
3	202.66	9.45	2.51	21.69	33.65	43.50	9.85	QP
4	260.86	14.72	2.86	11.07	28.65	46.00	17.35	QP
5	312.27	12.93	3.15	12.30	28.38	46.00	17.62	QP
6	547.01	18.64	4.26	5.18	28.08	46.00	17.92	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: 224 File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (228)



Site no. : 5# 966 Chamber Data no. : 224
Dis. / Ant. : 3m 54681 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:20.3°C;Humi:49%;Press:101.55kPa
Engineer : Shadow Yang
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : TX Mode
Sample No. : EST-260630008-003

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	127.97	12.60	1.94	14.86	29.40	43.50	14.10	QP
2	202.66	9.45	2.51	20.82	32.78	43.50	10.72	QP
3	265.71	14.52	2.89	8.50	25.91	46.00	20.09	QP
4	576.11	19.54	4.38	4.85	28.77	46.00	17.23	QP
5	716.76	20.66	4.93	3.80	29.39	46.00	16.61	QP
6	874.87	22.50	5.51	2.77	30.78	46.00	15.22	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.

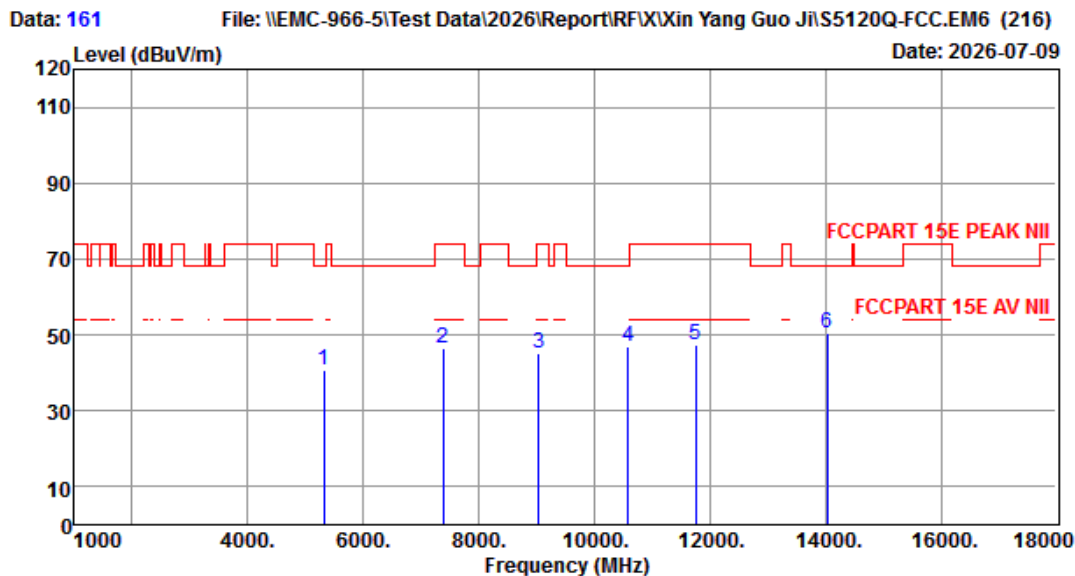
Note:

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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Site no. : 5# 966 Chamber Data no. : 161
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5180MHz
 Sample No. : EST-260630008-003

	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	5318.00	33.03	6.73	43.26	44.40	40.90	68.20	27.30	Peak
2	7375.00	36.68	7.98	43.33	45.11	46.44	74.00	27.56	Peak
3	9041.00	38.38	8.82	42.99	41.08	45.29	74.00	28.71	Peak
4	10588.00	39.48	9.60	42.28	40.17	46.97	68.20	21.23	Peak
5	11761.00	39.93	10.13	41.24	38.53	47.35	74.00	26.65	Peak
6	14039.00	42.01	11.06	39.98	37.26	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.

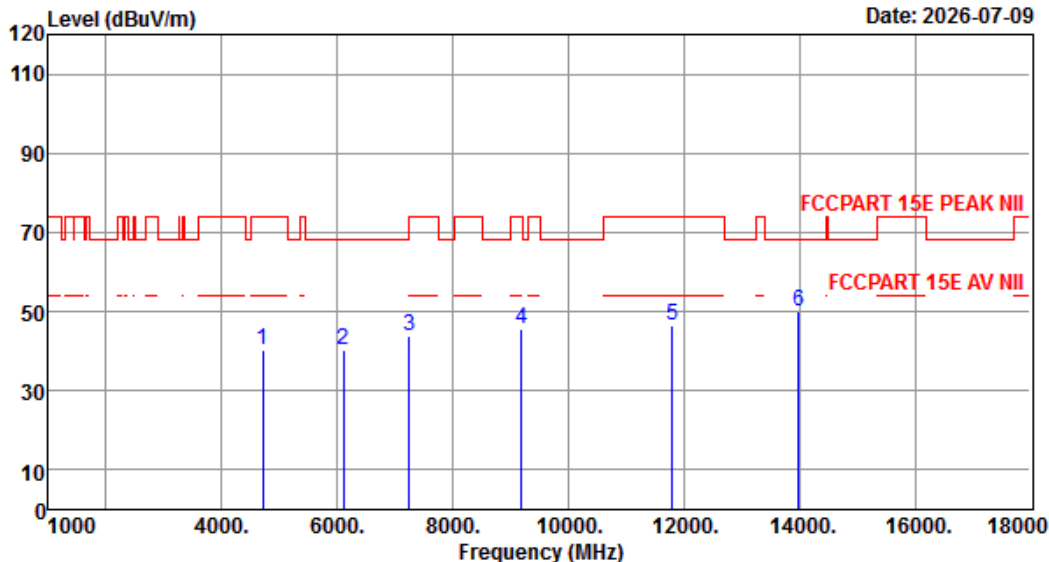
EST Technology

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Data: 162

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 162
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5180MHz
 Sample No. : EST-260630008-003

	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	4706.00	32.20	6.26	43.26	44.91	40.11	74.00	33.89	Peak
2	6100.00	33.70	7.23	43.40	42.99	40.52	68.20	27.68	Peak
3	7239.00	36.80	7.92	43.35	42.48	43.85	68.20	24.35	Peak
4	9194.00	39.00	8.89	42.94	40.60	45.55	74.00	28.45	Peak
5	11795.00	39.96	10.15	41.20	37.48	46.39	74.00	27.61	Peak
6	13988.00	42.07	11.04	39.89	36.92	50.14	68.20	18.06	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.

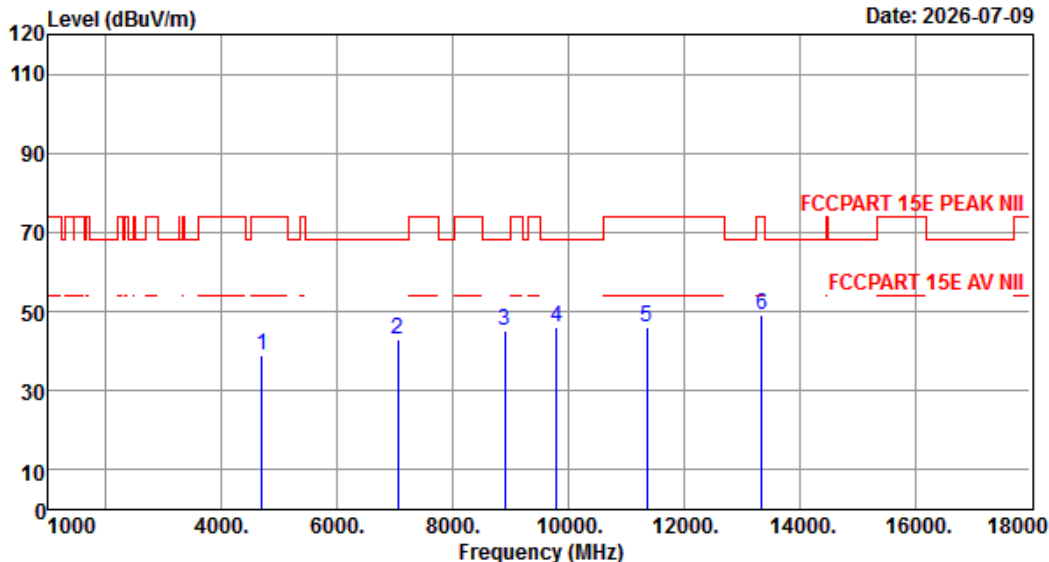
EST Technology

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Data: 163

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 163
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5200MHz
 Sample No. : EST-260630008-003

	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	4689.00	32.12	6.25	43.26	43.86	38.97	74.00	35.03	Peak
2	7052.00	36.30	7.81	43.39	42.29	43.01	68.20	25.19	Peak
3	8905.00	39.00	8.75	43.02	40.62	45.35	68.20	22.85	Peak
4	9789.00	39.90	9.19	42.76	39.94	46.27	68.20	21.93	Peak
5	11353.00	39.65	9.95	41.64	38.05	46.01	74.00	27.99	Peak
6	13342.00	40.91	10.79	39.64	37.25	49.31	74.00	24.69	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.

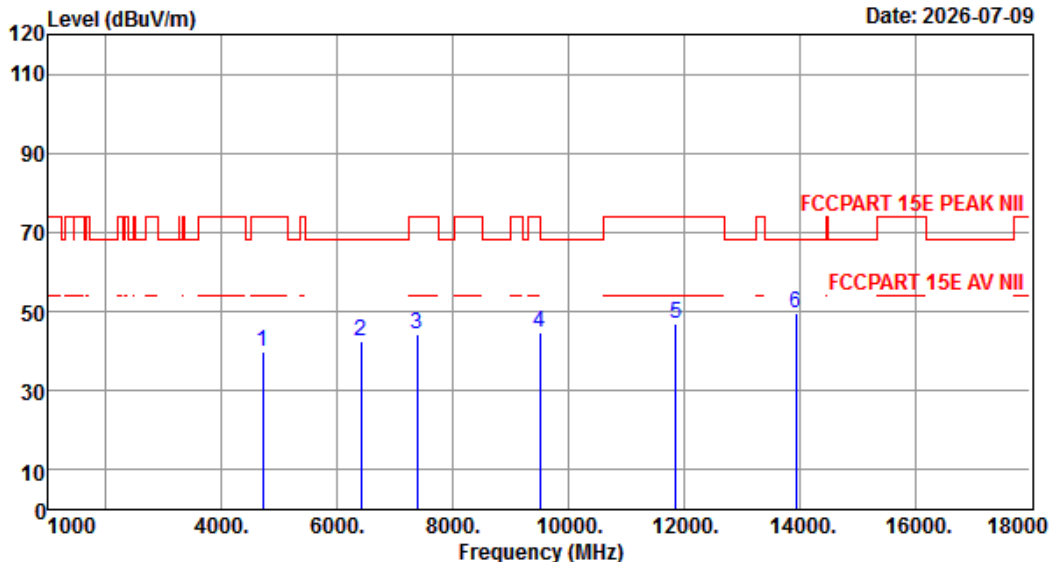
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Data: 164

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 164
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5200MHz
 Sample No. : EST-260630008-003

	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	4706.00	32.20	6.26	43.26	44.52	39.72	74.00	34.28	Peak
2	6406.00	35.70	7.41	43.40	42.91	42.62	68.20	25.58	Peak
3	7375.00	36.68	7.98	43.33	42.82	44.15	74.00	29.85	Peak
4	9500.00	39.20	9.05	42.85	39.23	44.63	68.20	23.57	Peak
5	11863.00	40.01	10.18	41.14	38.09	47.14	74.00	26.86	Peak
6	13937.00	41.98	11.02	39.87	36.65	49.78	68.20	18.42	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.

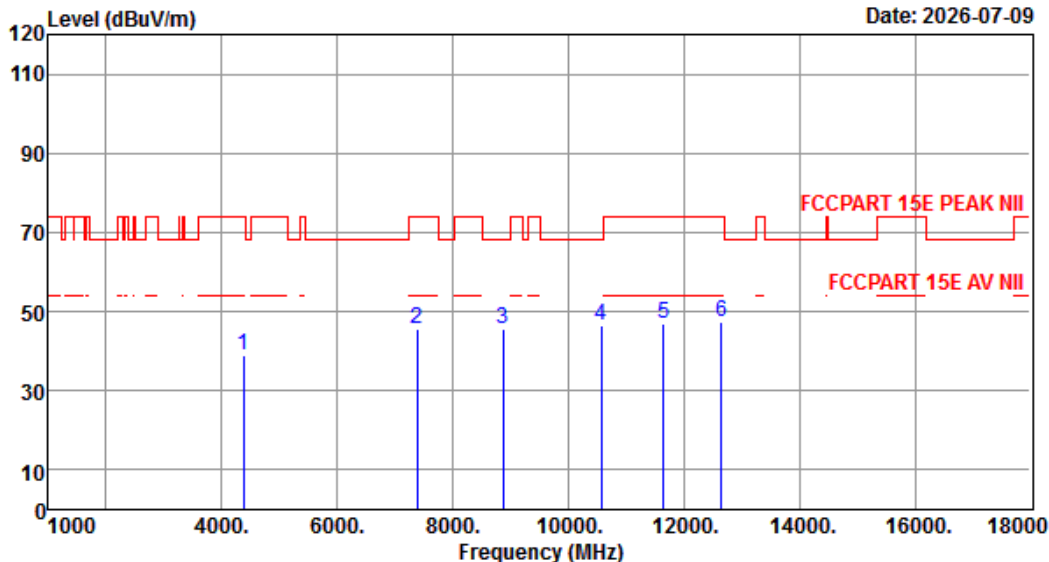
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Data: 165

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 165
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5240MHz
 Sample No. : EST-260630008-003

	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	4383.00	31.32	6.01	43.32	44.75	38.76	74.00	35.24	Peak
2	7375.00	36.68	7.98	43.33	44.11	45.44	74.00	28.56	Peak
3	8871.00	38.80	8.73	43.03	41.22	45.72	68.20	22.48	Peak
4	10571.00	39.48	9.59	42.30	39.79	46.56	68.20	21.64	Peak
5	11642.00	39.85	10.08	41.36	38.39	46.96	74.00	27.04	Peak
6	12645.00	40.23	10.52	40.03	36.73	47.45	74.00	26.55	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.

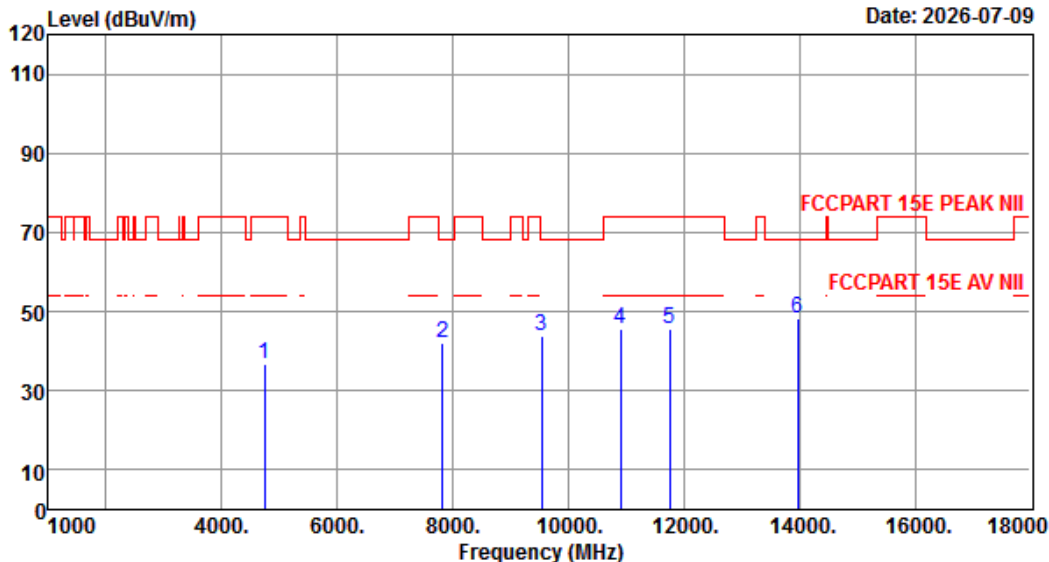
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Data: 166

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 166
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5240MHz
 Sample No. : EST-260630008-003

	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	4740.00	32.07	6.28	43.25	41.60	36.70	74.00	37.30	Peak
2	7817.00	36.75	8.21	43.24	40.29	42.01	68.20	26.19	Peak
3	9534.00	39.30	9.07	42.84	38.18	43.71	68.20	24.49	Peak
4	10911.00	39.42	9.75	42.06	38.32	45.43	74.00	28.57	Peak
5	11761.00	39.93	10.13	41.24	36.63	45.45	74.00	28.55	Peak
6	13971.00	42.04	11.03	39.89	35.21	48.39	68.20	19.81	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.

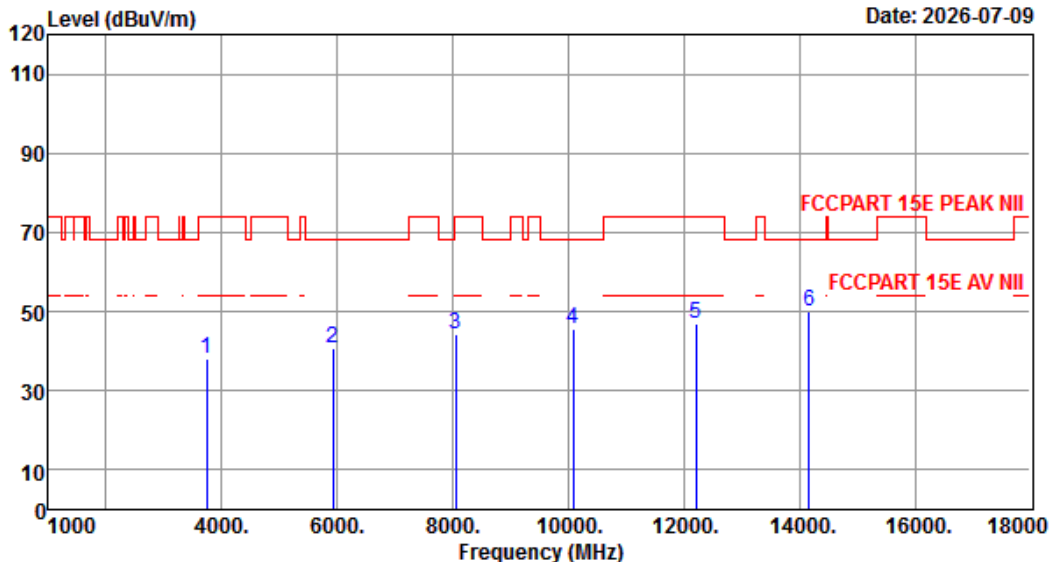
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Data: 167

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 167
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5260MHz
 Sample No. : EST-260630008-003

	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	3737.00	29.67	5.51	43.40	46.28	38.06	74.00	35.94	Peak
2	5930.00	33.40	7.12	43.39	43.40	40.53	68.20	27.67	Peak
3	8055.00	37.90	8.32	43.19	41.32	44.35	74.00	29.65	Peak
4	10078.00	39.58	9.34	42.64	39.47	45.75	68.20	22.45	Peak
5	12203.00	40.14	10.33	40.69	37.37	47.15	74.00	26.85	Peak
6	14175.00	41.66	11.11	40.29	37.34	49.82	68.20	18.38	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.

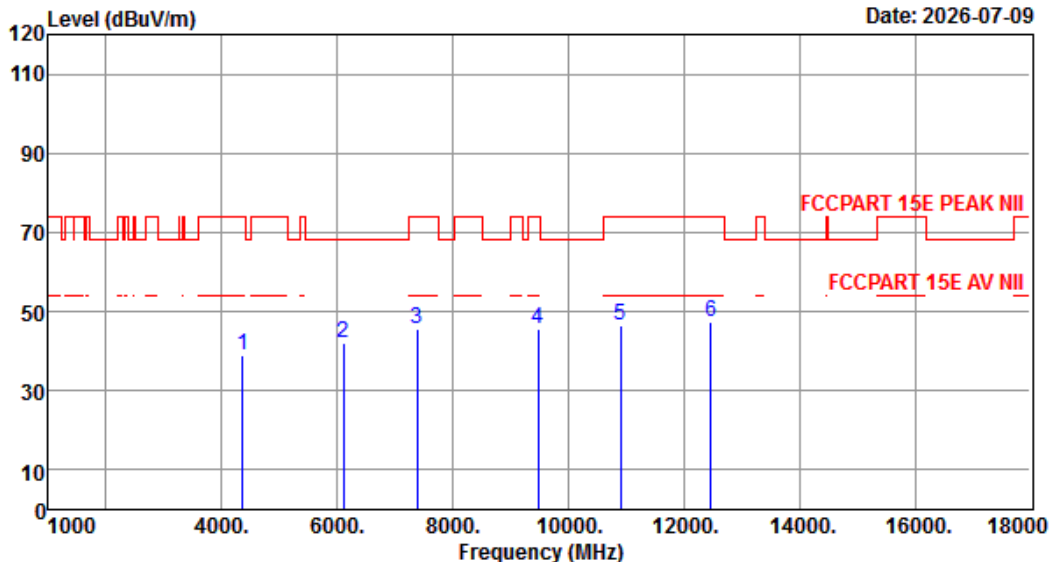
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Data: 168

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 168
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5260MHz
Sample No. : EST-260630008-003

	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	4366.00	31.33	5.99	43.33	44.93	38.92	74.00	35.08	Peak
2	6100.00	33.70	7.23	43.40	44.35	41.88	68.20	26.32	Peak
3	7375.00	36.68	7.98	43.33	44.29	45.62	74.00	28.38	Peak
4	9483.00	39.17	9.04	42.86	40.14	45.49	74.00	28.51	Peak
5	10911.00	39.42	9.75	42.06	39.37	46.48	74.00	27.52	Peak
6	12475.00	40.19	10.45	40.29	37.24	47.59	74.00	26.41	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.

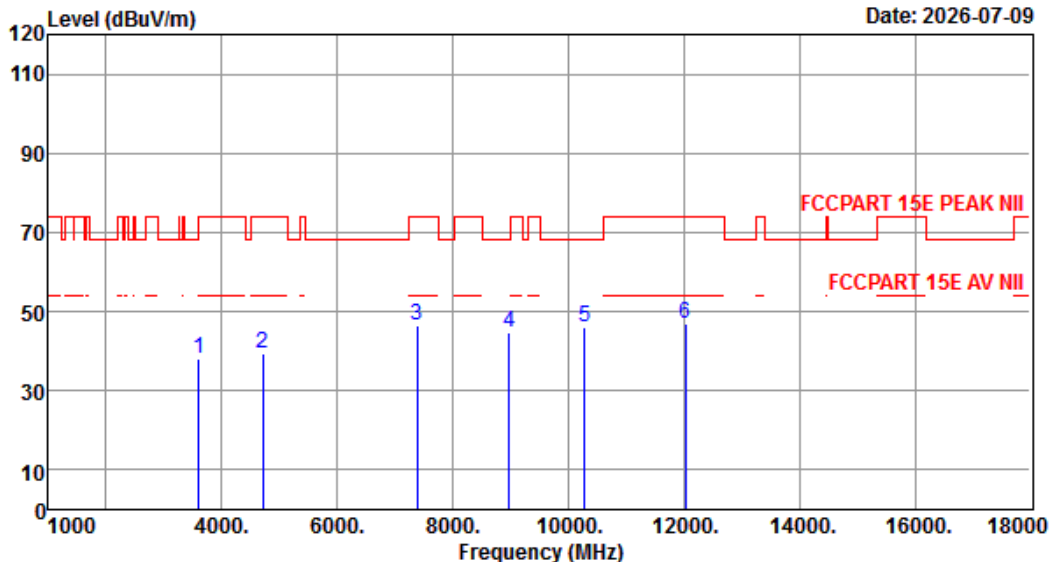
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Data: 169

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 169
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5300MHz
Sample No. : EST-260630008-003

	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	3601.00	29.80	5.40	43.40	46.48	38.28	74.00	35.72	Peak
2	4706.00	32.20	6.26	43.26	44.37	39.57	74.00	34.43	Peak
3	7375.00	36.68	7.98	43.33	45.00	46.33	74.00	27.67	Peak
4	8973.00	38.53	8.78	43.01	40.32	44.62	68.20	23.58	Peak
5	10282.00	39.54	9.44	42.50	39.56	46.04	68.20	22.16	Peak
6	12033.00	40.11	10.25	40.95	37.54	46.95	74.00	27.05	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.

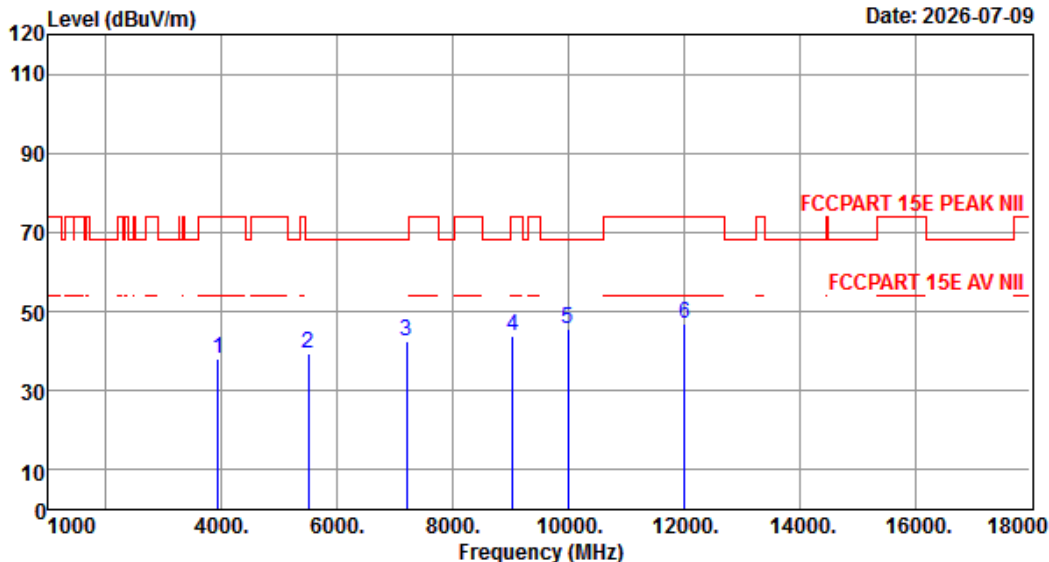
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Data: 170

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 170
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5300MHz
 Sample No. : EST-260630008-003

	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	3941.00	30.16	5.66	43.40	45.52	37.94	74.00	36.06	Peak
2	5505.00	33.70	6.86	43.30	42.28	39.54	68.20	28.66	Peak
3	7205.00	37.10	7.90	43.36	40.88	42.52	68.20	25.68	Peak
4	9041.00	38.38	8.82	42.99	39.83	44.04	74.00	29.96	Peak
5	9993.00	39.60	9.30	42.70	39.28	45.48	68.20	22.72	Peak
6	12016.00	40.10	10.24	40.97	37.75	47.12	74.00	26.88	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.

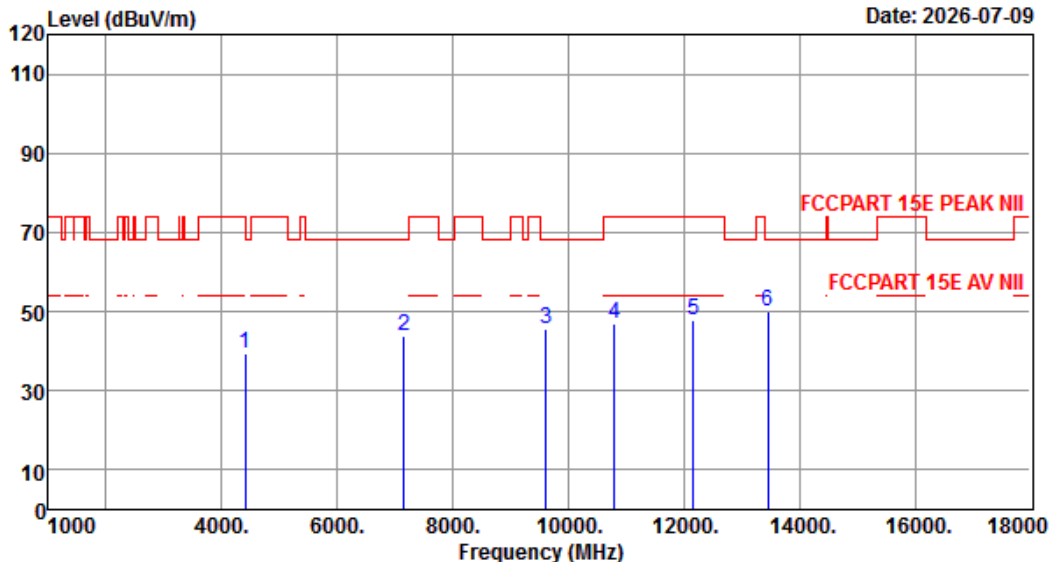
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Data: 171

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 171
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5320MHz
Sample No. : EST-260630008-003

	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	4400.00	31.30	6.02	43.32	45.25	39.25	68.20	28.95	Peak
2	7154.00	36.90	7.87	43.37	42.26	43.66	68.20	24.54	Peak
3	9619.00	39.65	9.11	42.81	39.87	45.82	68.20	22.38	Peak
4	10792.00	39.44	9.70	42.14	40.02	47.02	74.00	26.98	Peak
5	12169.00	40.13	10.31	40.75	38.13	47.82	74.00	26.18	Peak
6	13461.00	41.12	10.84	39.68	37.77	50.05	68.20	18.15	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.

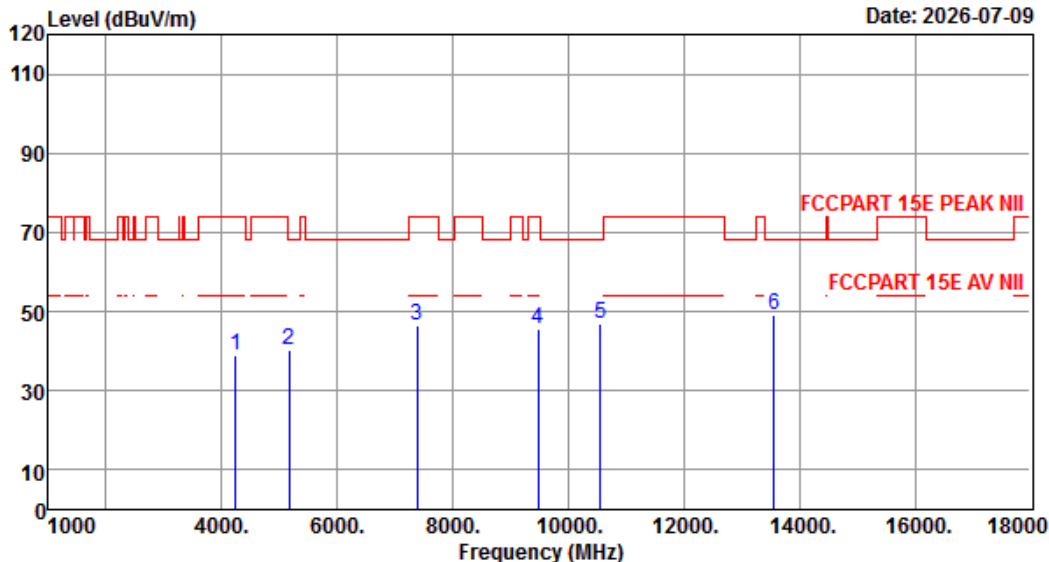
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Data: 172

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 172
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5320MHz
 Sample No. : EST-260630008-003

	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	4247.00	30.70	5.90	43.35	45.71	38.96	74.00	35.04	Peak
2	5165.00	32.57	6.62	43.23	44.34	40.30	68.20	27.90	Peak
3	7375.00	36.68	7.98	43.33	45.04	46.37	74.00	27.63	Peak
4	9483.00	39.17	9.04	42.86	40.24	45.59	74.00	28.41	Peak
5	10554.00	39.49	9.58	42.31	40.34	47.10	68.20	21.10	Peak
6	13563.00	41.31	10.88	39.72	36.72	49.19	68.20	19.01	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.

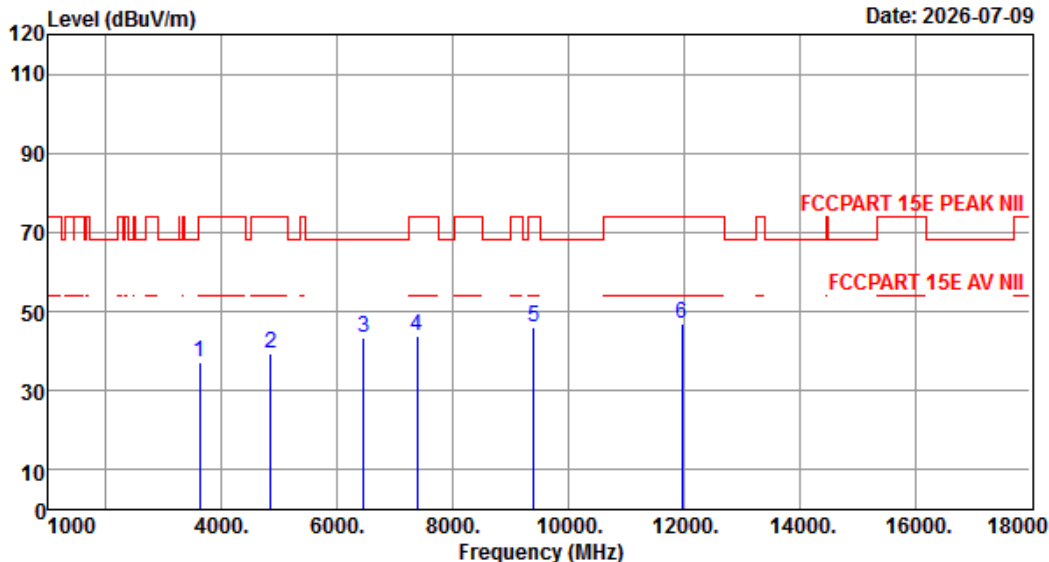
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Data: 173

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 173
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5500MHz
 Sample No. : EST-260630008-003

	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	3618.00	29.75	5.41	43.40	45.48	37.24	74.00	36.76	Peak
2	4842.00	31.80	6.36	43.23	44.53	39.46	74.00	34.54	Peak
3	6457.00	35.90	7.44	43.40	43.59	43.53	68.20	24.67	Peak
4	7375.00	36.68	7.98	43.33	42.29	43.62	74.00	30.38	Peak
5	9398.00	39.00	9.00	42.88	40.82	45.94	74.00	28.06	Peak
6	11965.00	40.08	10.22	41.03	37.77	47.04	74.00	26.96	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.

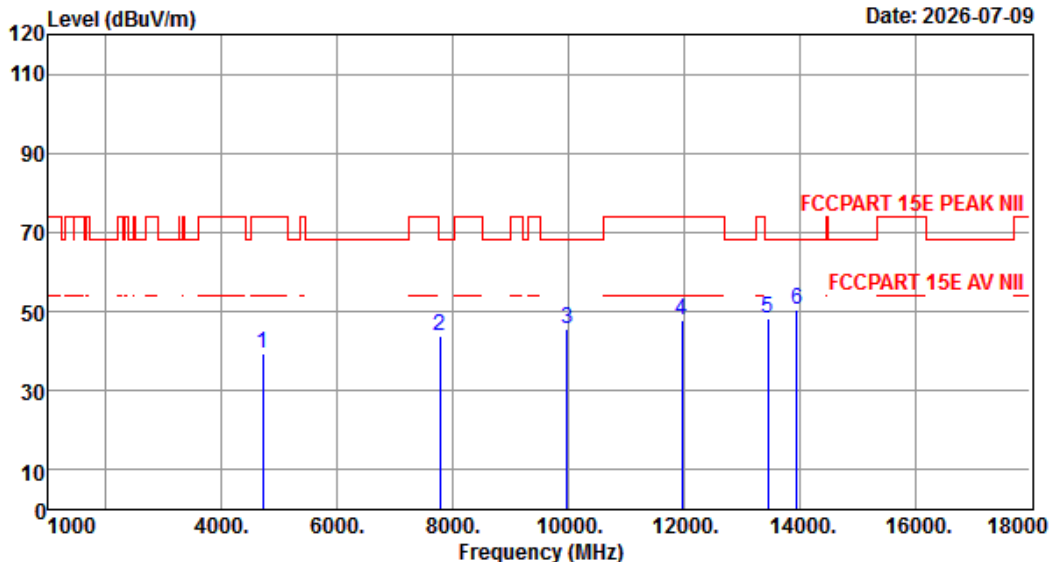
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Data: 174

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 174
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5500MHz
 Sample No. : EST-260630008-003

	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	4706.00	32.20	6.26	43.26	44.43	39.63	74.00	34.37	Peak
2	7783.00	36.55	8.19	43.24	42.29	43.79	68.20	24.41	Peak
3	9976.00	39.54	9.29	42.71	39.61	45.73	68.20	22.47	Peak
4	11965.00	40.08	10.22	41.03	38.55	47.82	74.00	26.18	Peak
5	13461.00	41.12	10.84	39.68	36.16	48.44	68.20	19.76	Peak
6	13954.00	42.01	11.03	39.88	37.13	50.29	68.20	17.91	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.

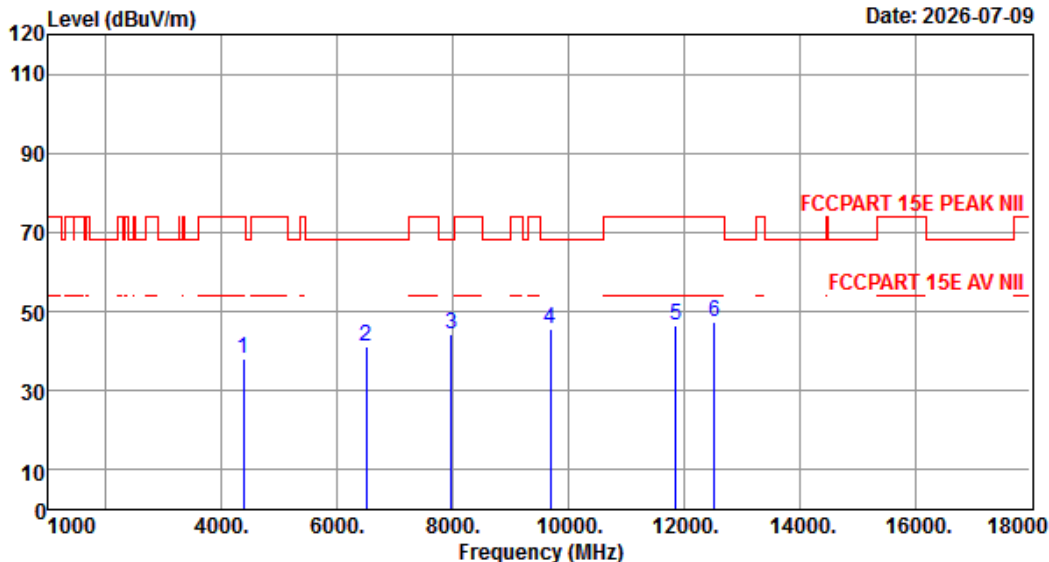
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Data: 175

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 175
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5580MHz
 Sample No. : EST-260630008-003

	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	4383.00	31.32	6.01	43.32	44.03	38.04	74.00	35.96	Peak
2	6508.00	36.10	7.47	43.40	41.13	41.30	68.20	26.90	Peak
3	7970.00	37.97	8.28	43.21	41.32	44.36	68.20	23.84	Peak
4	9687.00	40.25	9.14	42.79	39.07	45.67	68.20	22.53	Peak
5	11863.00	40.01	10.18	41.14	37.59	46.64	74.00	27.36	Peak
6	12526.00	40.21	10.47	40.21	36.84	47.31	74.00	26.69	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.

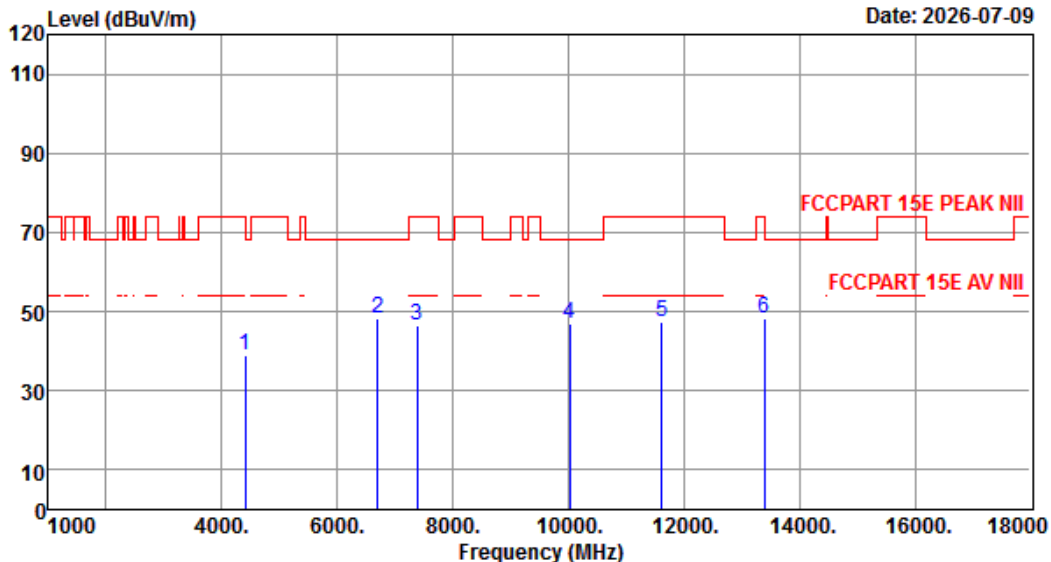
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Data: 176

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 176
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5580MHz
 Sample No. : EST-260630008-003

	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	4400.00	31.30	6.02	43.32	44.80	38.80	68.20	29.40	Peak
2	6695.00	35.40	7.59	43.40	48.62	48.21	68.20	19.99	Peak
3	7375.00	36.68	7.98	43.33	45.27	46.60	74.00	27.40	Peak
4	10027.00	39.59	9.31	42.68	40.56	46.78	68.20	21.42	Peak
5	11625.00	39.84	10.07	41.37	38.93	47.47	74.00	26.53	Peak
6	13393.00	41.00	10.81	39.66	36.33	48.48	74.00	25.52	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.

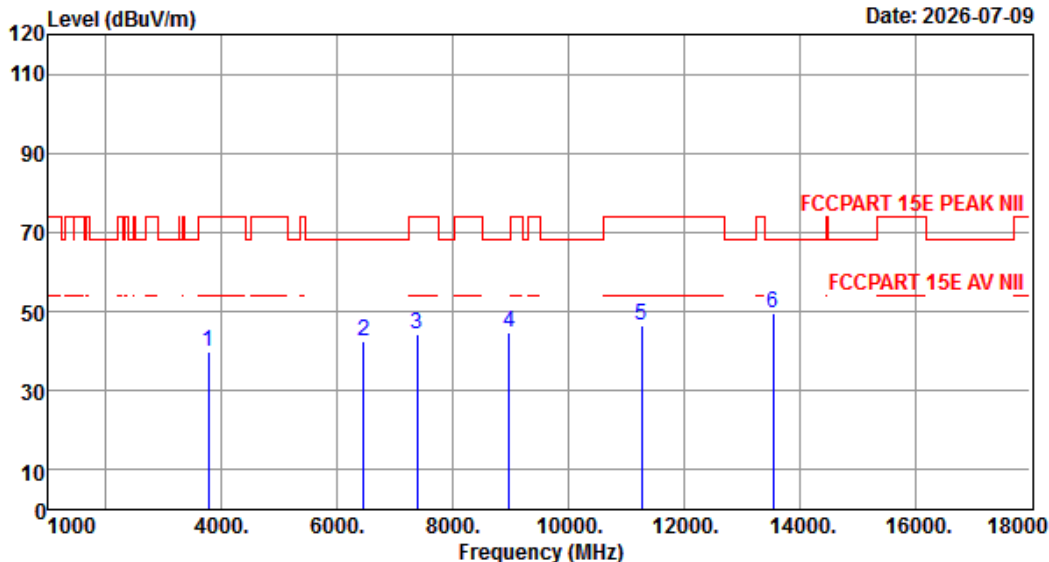
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Data: 177

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 177
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
Sample No. : EST-260630008-003

	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	3771.00	29.83	5.53	43.40	48.04	40.00	74.00	34.00	Peak
2	6457.00	35.90	7.44	43.40	42.69	42.63	68.20	25.57	Peak
3	7375.00	36.68	7.98	43.33	43.05	44.38	74.00	29.62	Peak
4	8973.00	38.53	8.78	43.01	40.29	44.59	68.20	23.61	Peak
5	11268.00	39.59	9.91	41.73	38.70	46.47	74.00	27.53	Peak
6	13546.00	41.28	10.87	39.72	36.99	49.42	68.20	18.78	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.

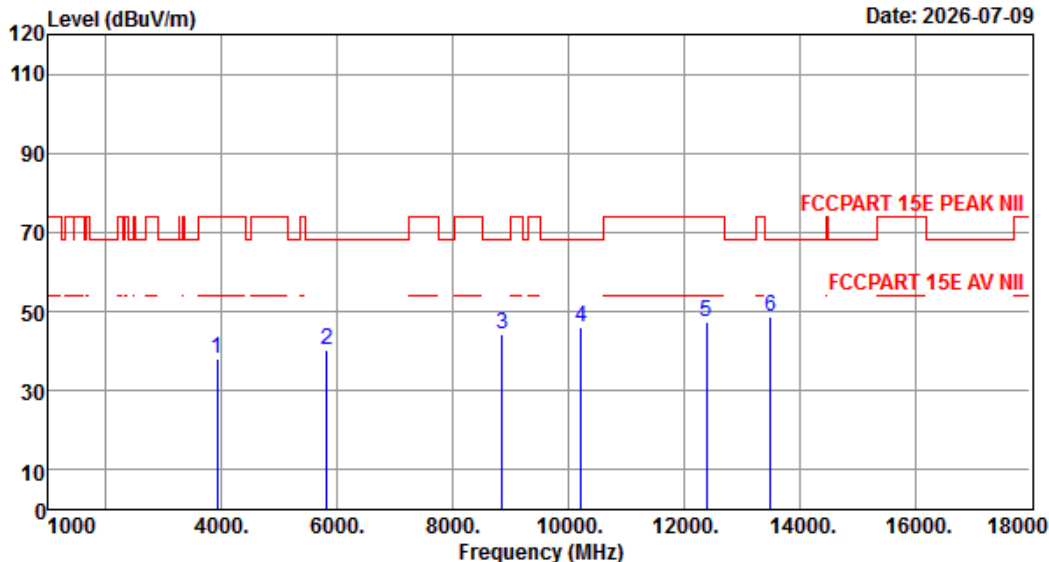
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Data: 178

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 178
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
Sample No. : EST-260630008-003

	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	3924.00	30.18	5.65	43.40	45.54	37.97	74.00	36.03	Peak
2	5811.00	33.40	7.05	43.36	42.99	40.08	68.20	28.12	Peak
3	8854.00	38.70	8.72	43.03	40.05	44.44	68.20	23.76	Peak
4	10214.00	39.56	9.41	42.55	39.51	45.93	68.20	22.27	Peak
5	12390.00	40.18	10.41	40.42	37.20	47.37	74.00	26.63	Peak
6	13495.00	41.18	10.85	39.70	36.26	48.59	68.20	19.61	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.

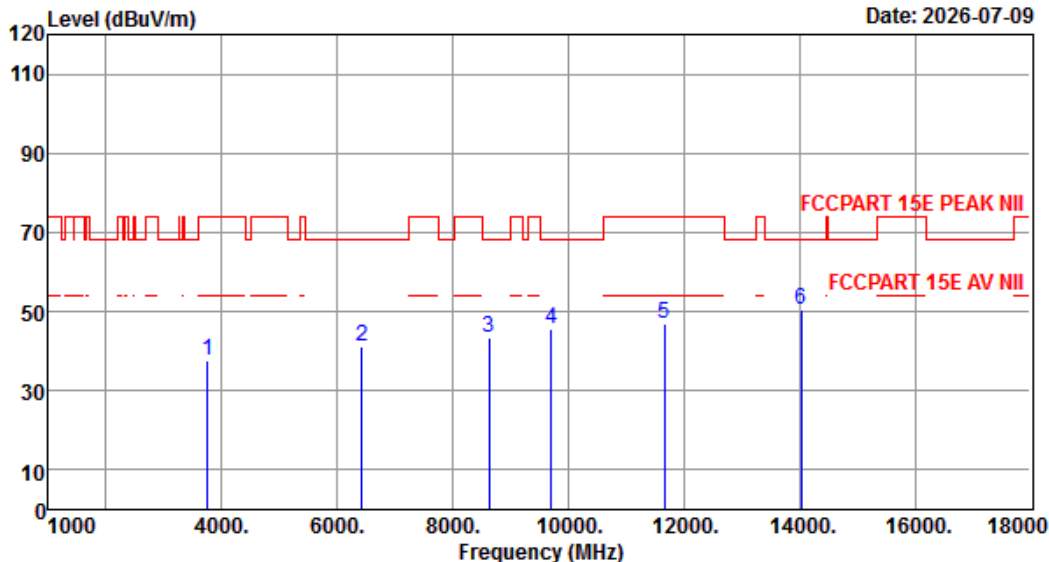
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Data: 179

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 179
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5745MHz
 Sample No. : EST-260630008-003

	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	3754.00	29.75	5.52	43.40	45.59	37.46	74.00	36.54	Peak
2	6423.00	35.77	7.42	43.40	41.20	40.99	68.20	27.21	Peak
3	8633.00	38.07	8.61	43.07	39.85	43.46	68.20	24.74	Peak
4	9704.00	40.40	9.15	42.79	38.74	45.50	68.20	22.70	Peak
5	11659.00	39.86	10.08	41.34	38.28	46.88	74.00	27.12	Peak
6	14039.00	42.01	11.06	39.98	37.30	50.39	68.20	17.81	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.

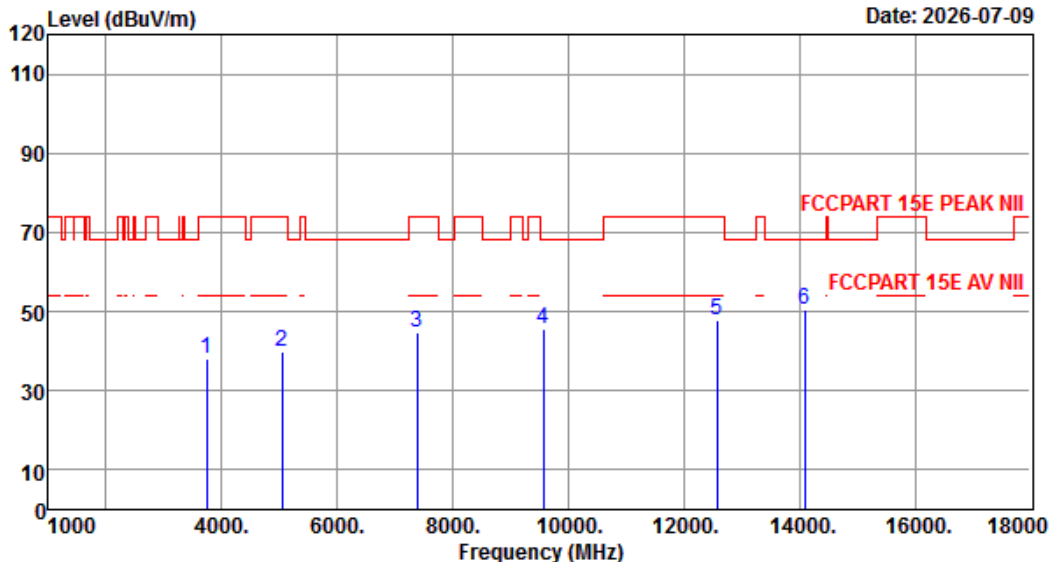
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Data: 180

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 180
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5745MHz
 Sample No. : EST-260630008-003

	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	3737.00	29.67	5.51	43.40	46.50	38.28	74.00	35.72	Peak
2	5046.00	32.10	6.52	43.21	44.25	39.66	74.00	34.34	Peak
3	7375.00	36.68	7.98	43.33	43.60	44.93	74.00	29.07	Peak
4	9568.00	39.40	9.08	42.83	40.15	45.80	68.20	22.40	Peak
5	12577.00	40.22	10.49	40.14	37.15	47.72	74.00	26.28	Peak
6	14090.00	41.88	11.08	40.09	37.61	50.48	68.20	17.72	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.

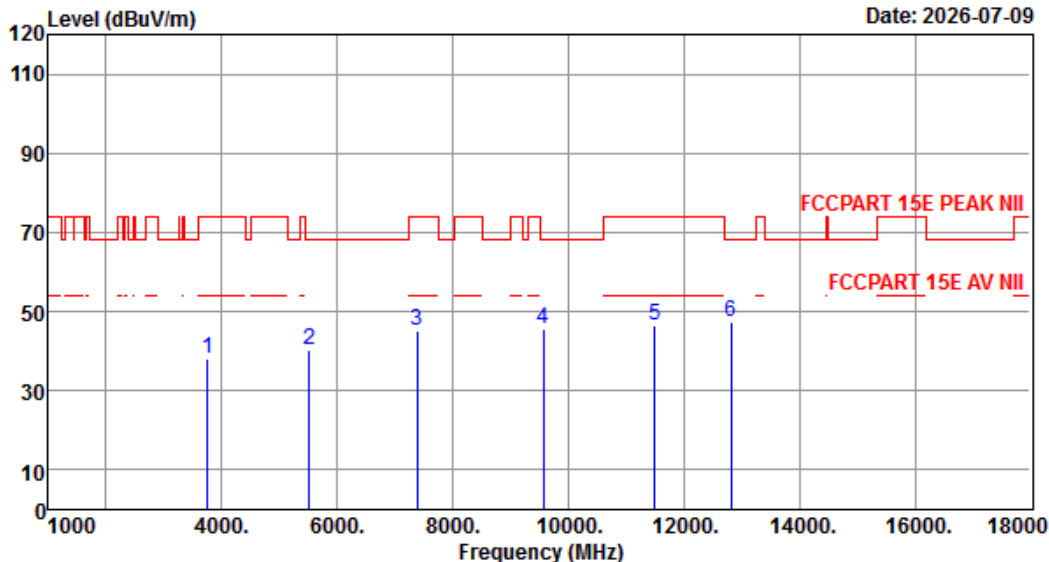
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Data: 181

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 181
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5785MHz
 Sample No. : EST-260630008-003

	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	3754.00	29.75	5.52	43.40	46.10	37.97	74.00	36.03	Peak
2	5522.00	33.62	6.87	43.31	43.03	40.21	68.20	27.99	Peak
3	7375.00	36.68	7.98	43.33	43.99	45.32	74.00	28.68	Peak
4	9568.00	39.40	9.08	42.83	39.78	45.43	68.20	22.77	Peak
5	11489.00	39.74	10.01	41.51	38.15	46.39	74.00	27.61	Peak
6	12815.00	40.26	10.59	39.78	36.18	47.25	68.20	20.95	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.

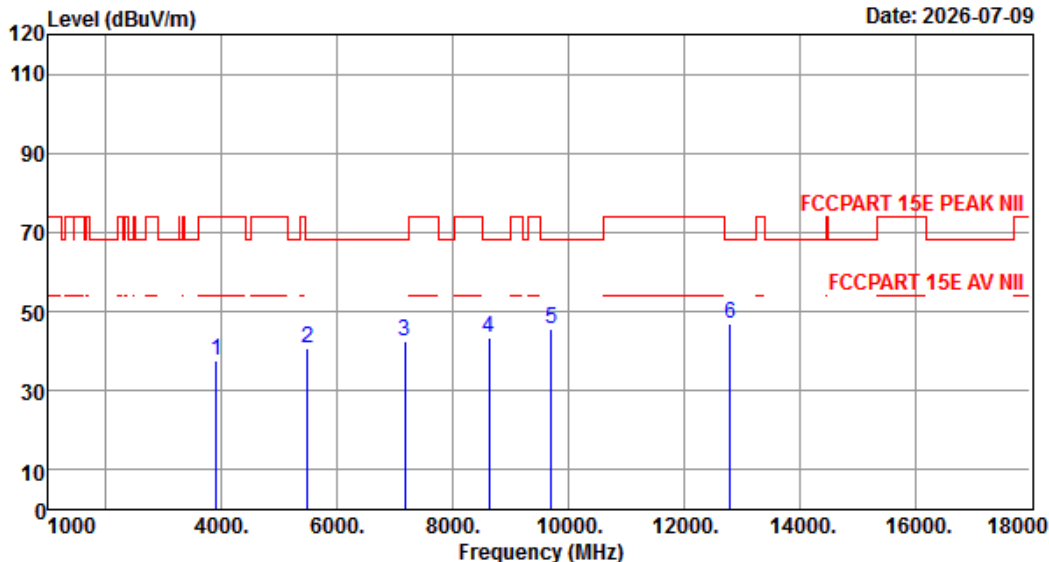
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Data: 182

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



Site no. : 5# 966 Chamber Data no. : 182
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5785MHz
 Sample No. : EST-260630008-003

	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	3907.00	30.20	5.64	43.40	45.07	37.51	74.00	36.49	Peak
2	5488.00	33.53	6.85	43.30	43.67	40.75	68.20	27.45	Peak
3	7171.00	36.97	7.88	43.37	41.03	42.51	68.20	25.69	Peak
4	8633.00	38.07	8.61	43.07	39.85	43.46	68.20	24.74	Peak
5	9704.00	40.40	9.15	42.79	39.05	45.81	68.20	22.39	Peak
6	12798.00	40.26	10.58	39.81	36.08	47.11	68.20	21.09	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.

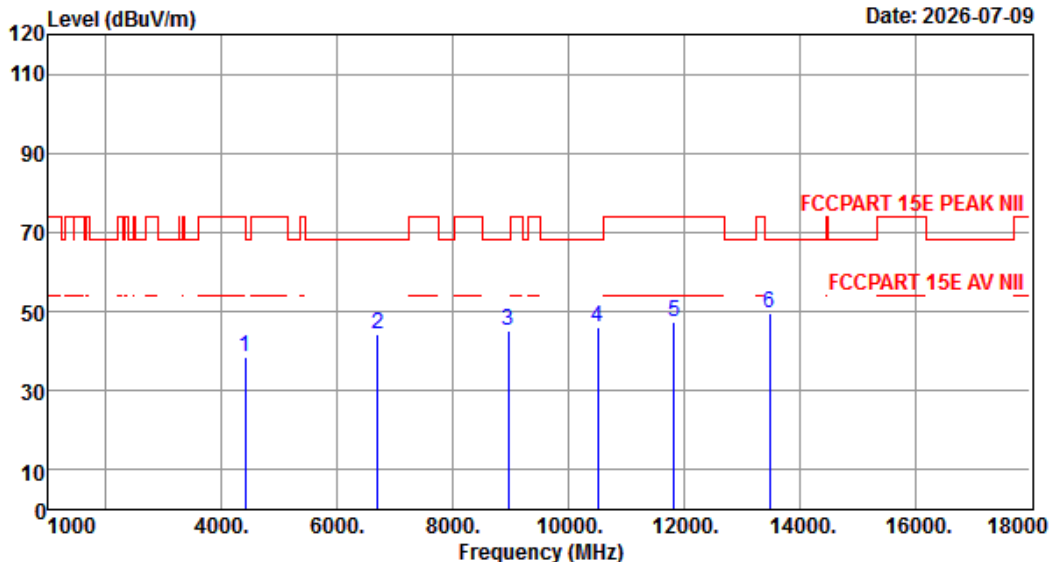
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Data: 183

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-09



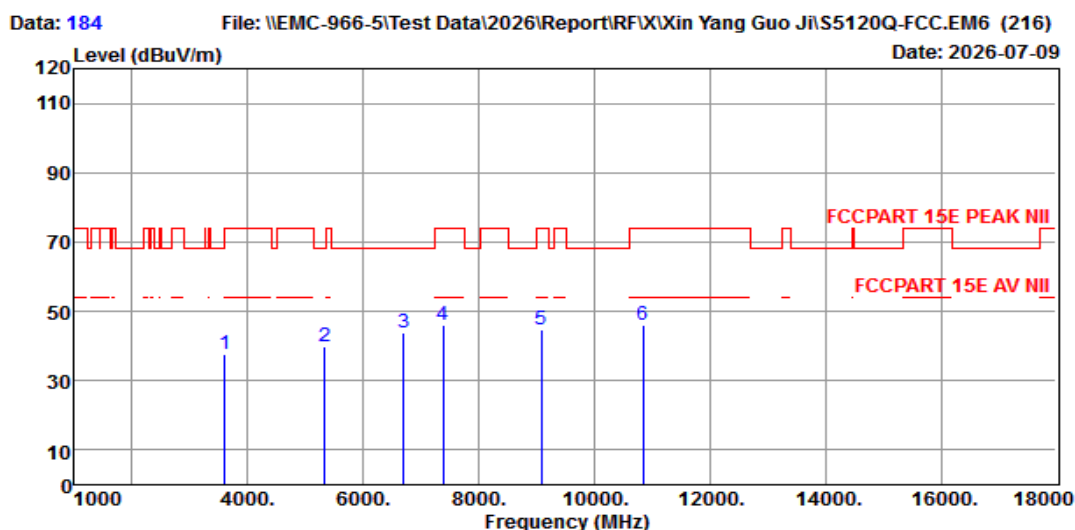
Site no. : 5# 966 Chamber Data no. : 183
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5825MHz
 Sample No. : EST-260630008-003

	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	4400.00	31.30	6.02	43.32	44.49	38.49	68.20	29.71	Peak
2	6695.00	35.40	7.59	43.40	44.91	44.50	68.20	23.70	Peak
3	8956.00	38.65	8.77	43.01	40.66	45.07	68.20	23.13	Peak
4	10503.00	39.50	9.55	42.34	39.45	46.16	68.20	22.04	Peak
5	11829.00	39.98	10.16	41.17	38.42	47.39	74.00	26.61	Peak
6	13478.00	41.15	10.84	39.69	37.46	49.76	68.20	18.44	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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Site no. : 5# 966 Chamber Data no. : 184
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5825MHz
Sample No. : EST-260630008-003

	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	3601.00	29.80	5.40	43.40	46.02	37.82	74.00	36.18	Peak
2	5335.00	32.97	6.75	43.27	43.45	39.90	68.20	28.30	Peak
3	6695.00	35.40	7.59	43.40	44.12	43.71	68.20	24.49	Peak
4	7375.00	36.68	7.98	43.33	44.86	46.19	74.00	27.81	Peak
5	9075.00	38.46	8.83	42.98	40.57	44.88	74.00	29.12	Peak
6	10843.00	39.43	9.72	42.11	39.02	46.06	74.00	27.94	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

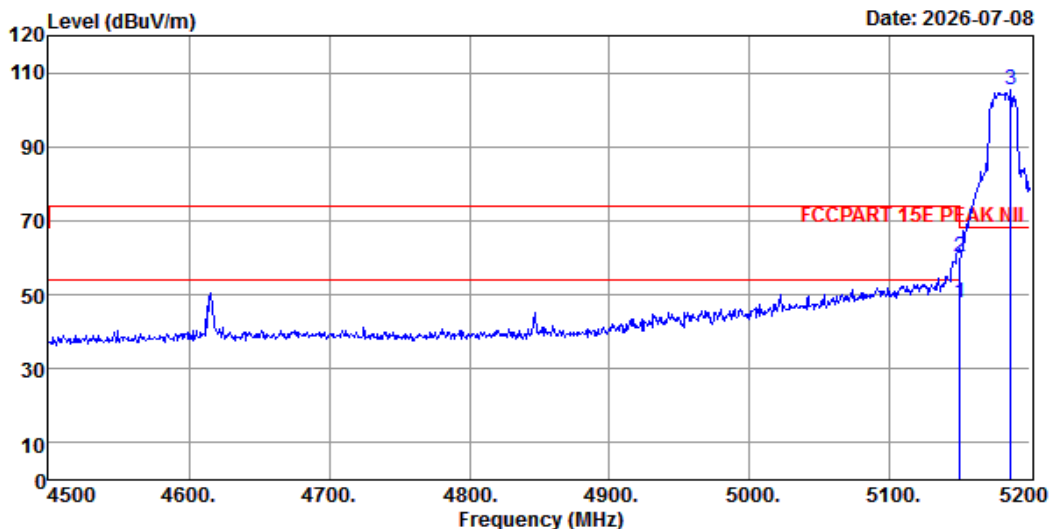
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Data: 149

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 149
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5180MHz
Sample No. : EST-260630008-003

	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	32.55	6.60	43.23	51.97	47.89	54.00	6.11	Average
2	5150.00	32.55	6.60	43.23	64.19	60.11	68.20	8.09	Peak
3	5186.00	32.58	6.63	43.24	109.31	105.28	68.20	-37.08	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.

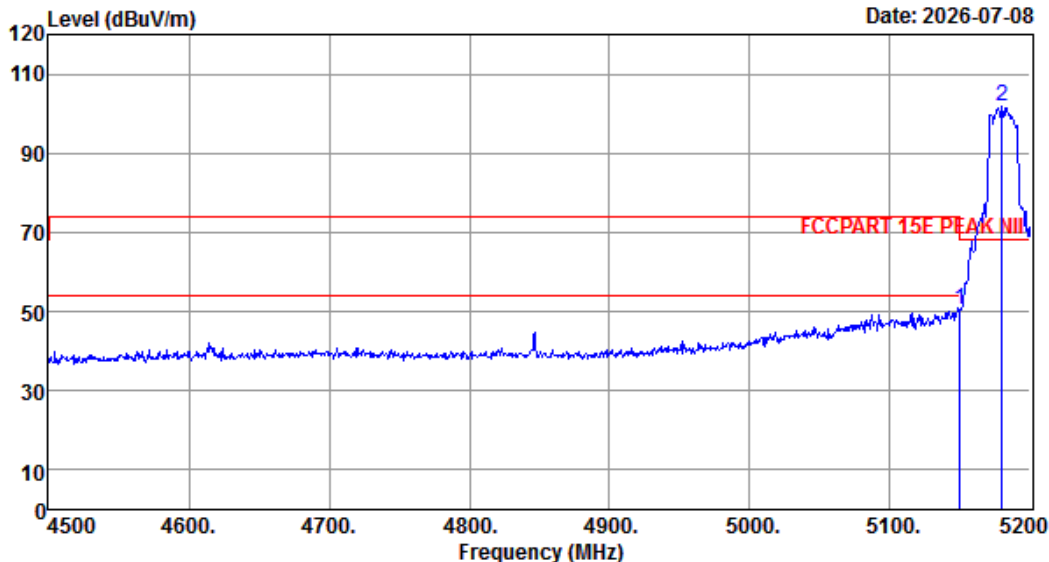
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Data: 150

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 150
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5180MHz
Sample No. : EST-260630008-003

	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	32.55	6.60	43.23	54.64	50.56	68.20	17.64	Peak
2	5179.70	32.58	6.63	43.24	105.71	101.68	68.20	-33.48	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.

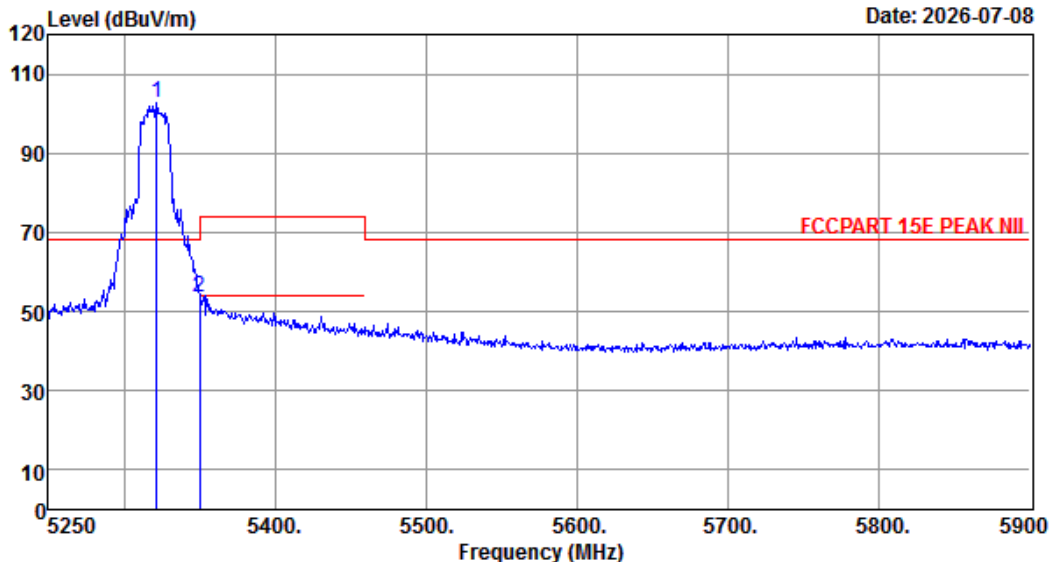
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Data: 151

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 151
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5320MHz
 Sample No. : EST-260630008-003

	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	5321.50	33.03	6.73	43.26	106.36	102.86	68.20	-34.66	Peak
2	5350.00	32.90	6.76	43.27	57.10	53.49	68.20	14.71	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.

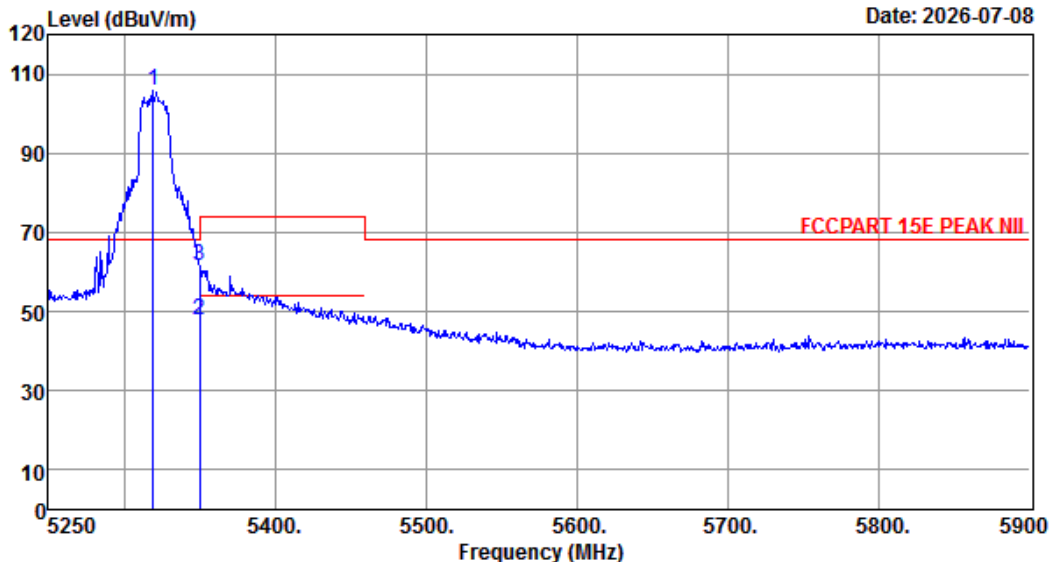
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Data: 152

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 152
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5320MHz
Sample No. : EST-260630008-003

	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	5319.55	33.03	6.73	43.26	109.49	105.99	68.20	-37.79	Peak
2	5350.00	32.90	6.76	43.27	51.65	48.04	54.00	5.96	Average
3	5350.00	32.90	6.76	43.27	65.15	61.54	68.20	6.66	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.

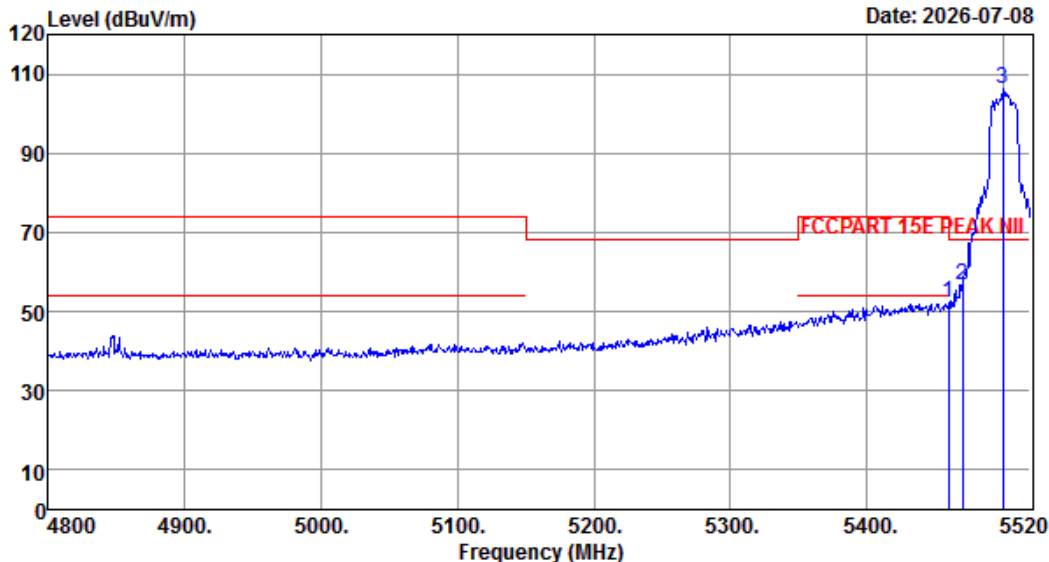
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Data: 153

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 153
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5500MHz
Sample No. : EST-260630008-003

	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	33.20	6.83	43.29	55.63	52.37	68.20	15.83	Peak
2	5470.00	33.37	6.84	43.29	59.54	56.46	68.20	11.74	Peak
3	5499.84	33.70	6.86	43.30	109.11	106.37	68.20	-38.17	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.

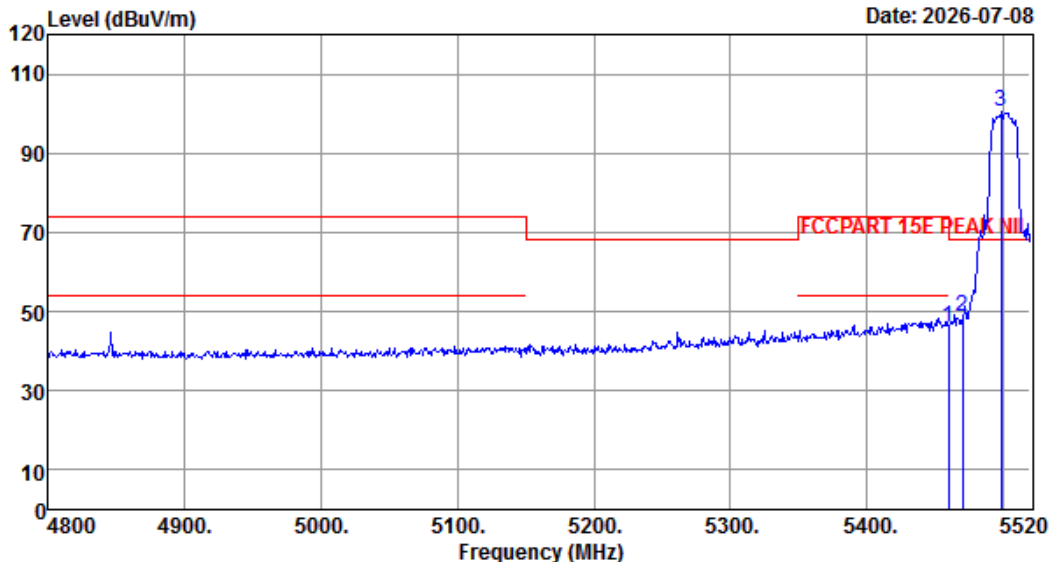
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Data: 154

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 154
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5500MHz
Sample No. : EST-260630008-003

	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	33.20	6.83	43.29	49.51	46.25	68.20	21.95	Peak
2	5470.00	33.37	6.84	43.29	51.99	48.91	68.20	19.29	Peak
3	5498.40	33.70	6.86	43.30	103.16	100.42	68.20	-32.22	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.

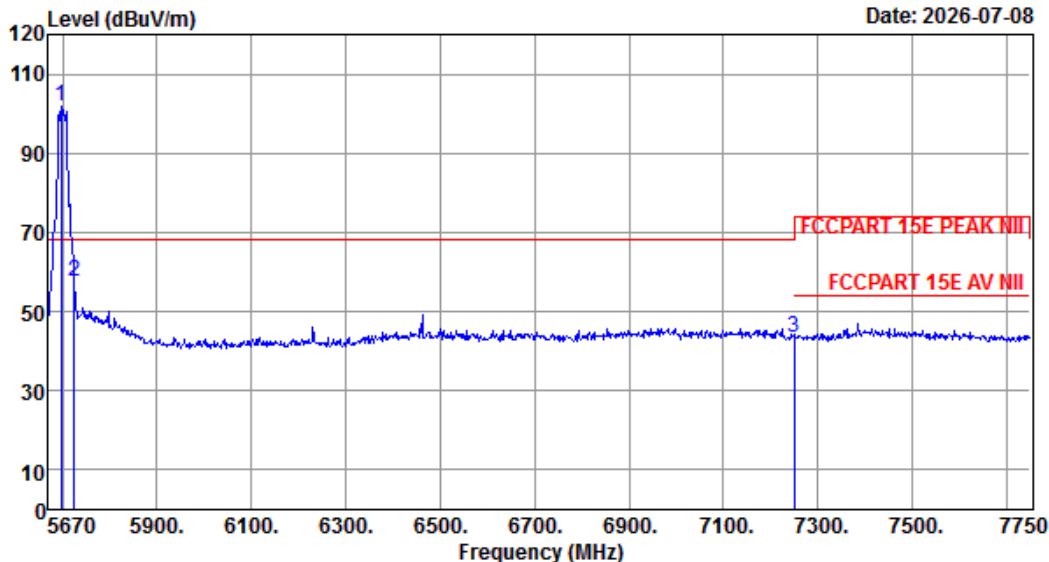
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Data: 155

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 155
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
Sample No. : EST-260630008-003

	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	5697.04	33.00	6.98	43.34	105.19	101.83	68.20	-33.63	Peak
2	5725.00	33.13	7.00	43.35	60.71	57.49	68.20	10.71	Peak
3	7250.00	36.65	7.93	43.35	42.01	43.24	68.20	24.96	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.

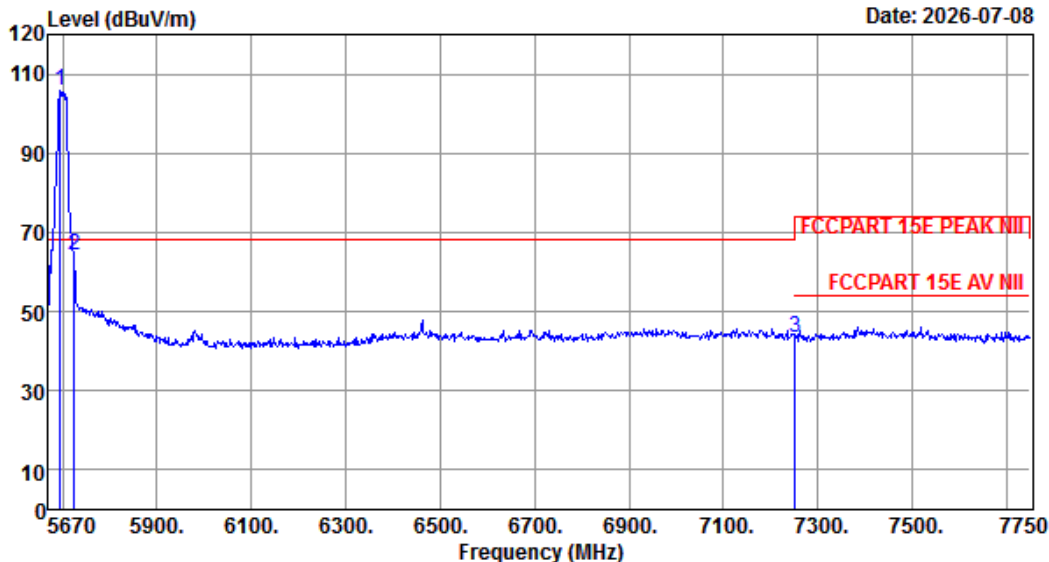
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Data: 156

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 156
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5700MHz
Sample No. : EST-260630008-003

	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	5694.96	33.00	6.98	43.34	109.31	105.95	68.20	-37.75	Peak
2	5725.00	33.13	7.00	43.35	67.22	64.00	68.20	4.20	Peak
3	7250.80	36.65	7.93	43.35	42.11	43.34	74.00	30.66	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.

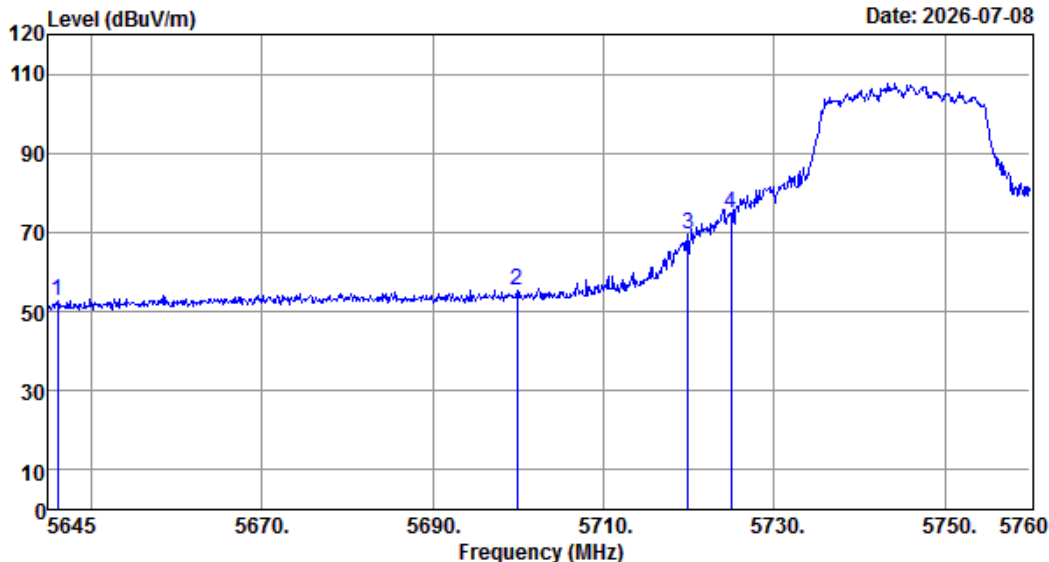
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Data: 157

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 157
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit :
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5745MHz
Sample No. : EST-260630008-003

	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	5646.04	33.12	6.95	43.33	56.14	52.88	-----	-----	Peak
2	5699.86	33.00	6.98	43.34	58.62	55.26	-----	-----	Peak
3	5719.87	33.13	7.00	43.35	72.90	69.68	-----	-----	Peak
4	5724.93	33.13	7.00	43.35	78.03	74.81	-----	-----	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.

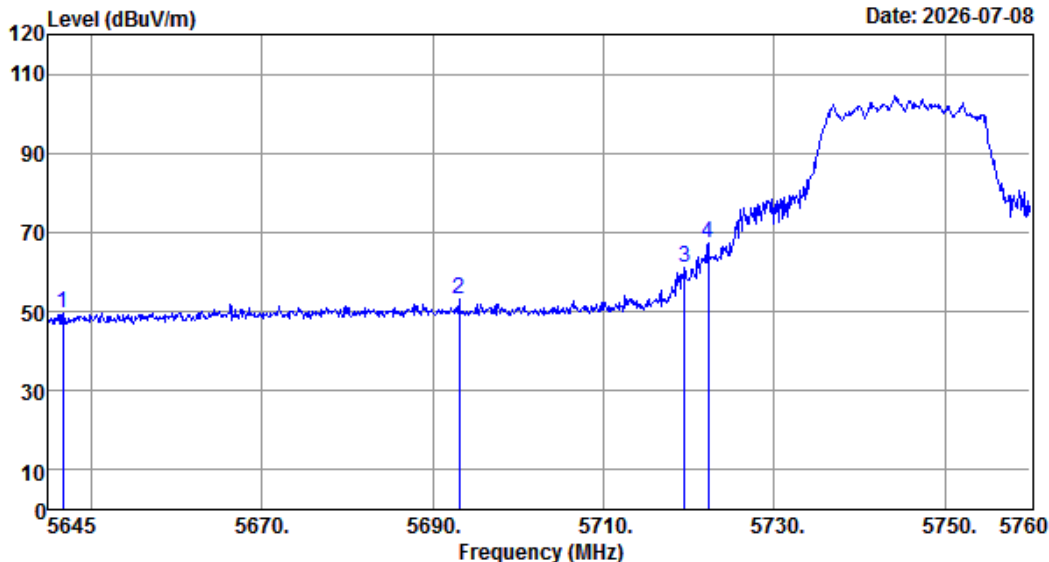
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Data: 158

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 158
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit :
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5745MHz
 Sample No. : EST-260630008-003

	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	5646.73	33.12	6.95	43.33	52.80	49.54	-----	-----	Peak
2	5693.07	33.00	6.98	43.34	56.31	52.95	-----	-----	Peak
3	5719.52	33.13	7.00	43.35	64.46	61.24	-----	-----	Peak
4	5722.28	33.13	7.00	43.35	70.55	67.33	-----	-----	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.

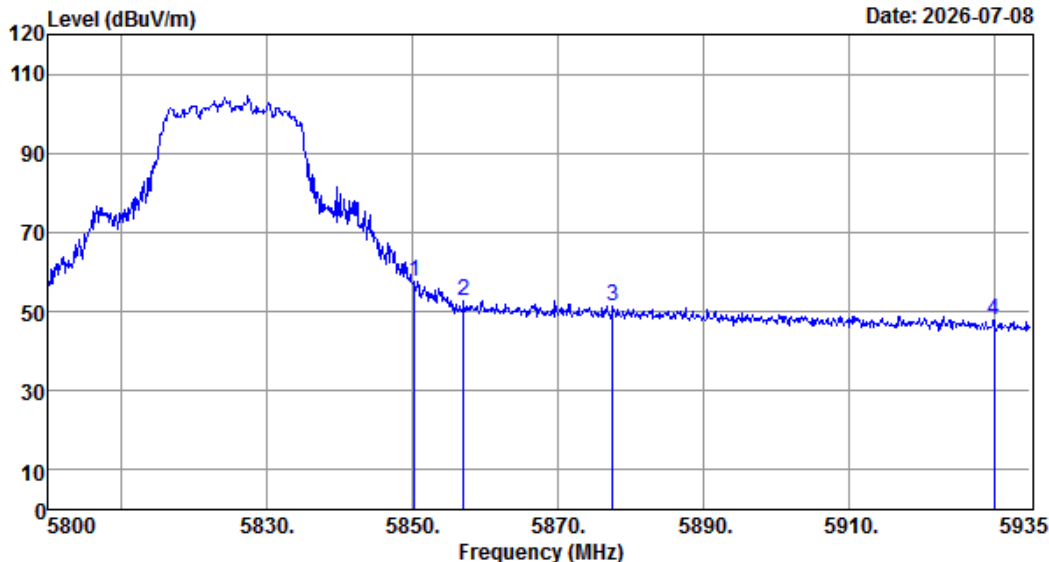
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Data: 159

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 159
 Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : HORIZONTAL
 Limit :
 Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
 Engineer : Aiden Yan
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : IEEE 802.11ax HE20 TX 5825MHz
 Sample No. : EST-260630008-003

	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	5850.36	33.40	7.07	43.37	60.31	57.41	-----	-----	Peak
2	5857.11	33.40	7.08	43.37	55.63	52.74	-----	-----	Peak
3	5877.63	33.40	7.09	43.38	54.41	51.52	-----	-----	Peak
4	5930.01	33.40	7.12	43.39	50.65	47.78	-----	-----	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.

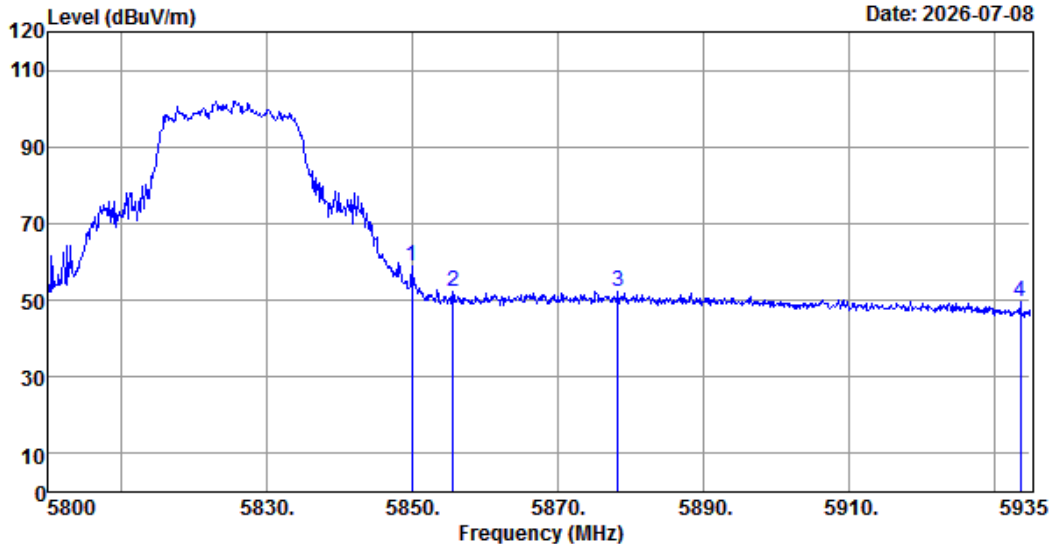
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Data: 160

File: \\EMC-966-5\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q-FCC.EM6 (216)

Date: 2026-07-08



Site no. : 5# 966 Chamber Data no. : 160
Dis. / Ant. : 3m 9120D-1002 1-18G Ant. pol. : VERTICAL
Limit :
Env. / Ins. : Temp:20.5°C;Humi:50%;Press:101.55kPa
Engineer : Aiden Yan
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : IEEE 802.11ax HE20 TX 5825MHz
Sample No. : EST-260630008-003

	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	5850.00	33.40	7.07	43.37	61.59	58.69	-----	-----	Peak
2	5855.62	33.40	7.08	43.37	54.97	52.08	-----	-----	Peak
3	5878.30	33.40	7.09	43.38	55.10	52.21	-----	-----	Peak
4	5933.65	33.40	7.12	43.39	52.47	49.60	-----	-----	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 edge								
UNII BAND	Test Mode	Test Frequency (MHz)	Freq Range (MHz)	Fundamental Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Result	Antenna Pole (H/V)
U-NII-3	IEEE 802.11ax HE20	5745	5645~5650	5646.04	52.88	68.2	Pass	V
			5650~5700	5699.86	55.26	105.1	Pass	
			5700~5720	5719.87	69.68	110.8	Pass	
			5720~5725	5724.93	74.81	122.0	Pass	
			5645~5650	5646.73	49.54	68.2	Pass	H
			5650~5700	5693.07	52.95	100.1	Pass	
			5700~5720	5719.52	61.24	110.7	Pass	
			5720~5725	5722.28	67.33	116.0	Pass	
		5825	5850~5855	5850.00	58.69	122.2	Pass	V
			5855~5875	5855.62	52.08	110.6	Pass	
			5875~5925	5878.30	52.21	102.8	Pass	
			5925~5935	5933.65	49.60	68.2	Pass	
			5850~5855	5850.36	57.41	121.4	Pass	H
			5855~5875	5857.11	52.74	110.2	Pass	
			5875~5925	5877.63	51.52	103.3	Pass	
			5925~5935	5930.01	47.78	68.2	Pass	

Note: All channels had been pre-test, only the worst case was reported.

18000MHz-40000MHz

Pass

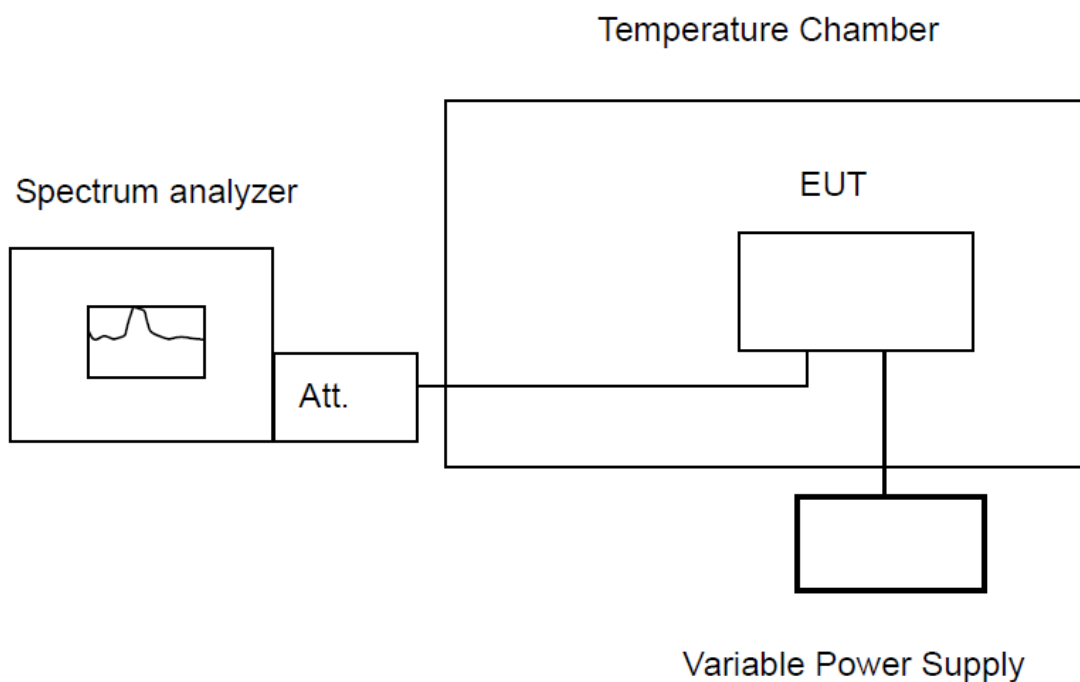
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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 Appendix E of Appendix FCC ID 5G Wi-Fi (the test data).

8.AC POWER LINE CONDUCTED EMISSIONS

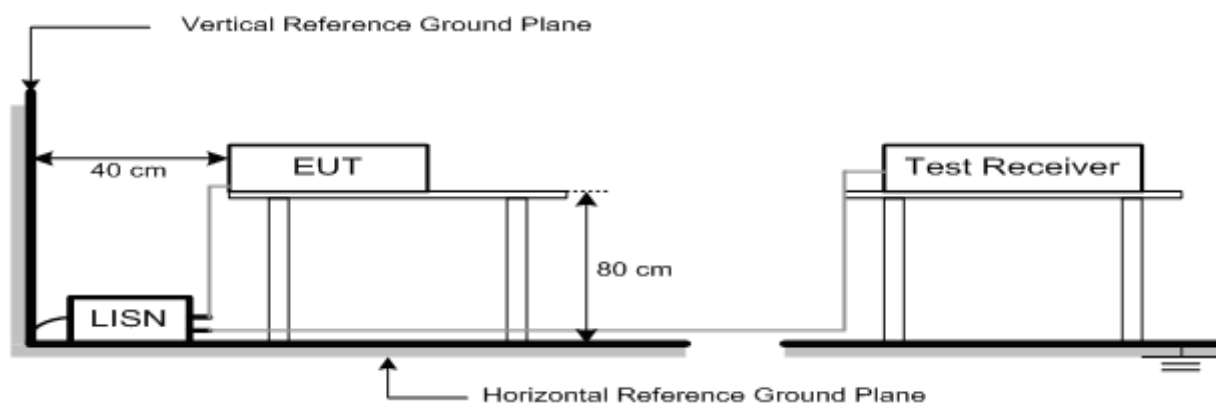
8.1.Limit

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: 2020 on Conducted Emission Test.
- g. Record the results in the test report.

8.5.Test Result

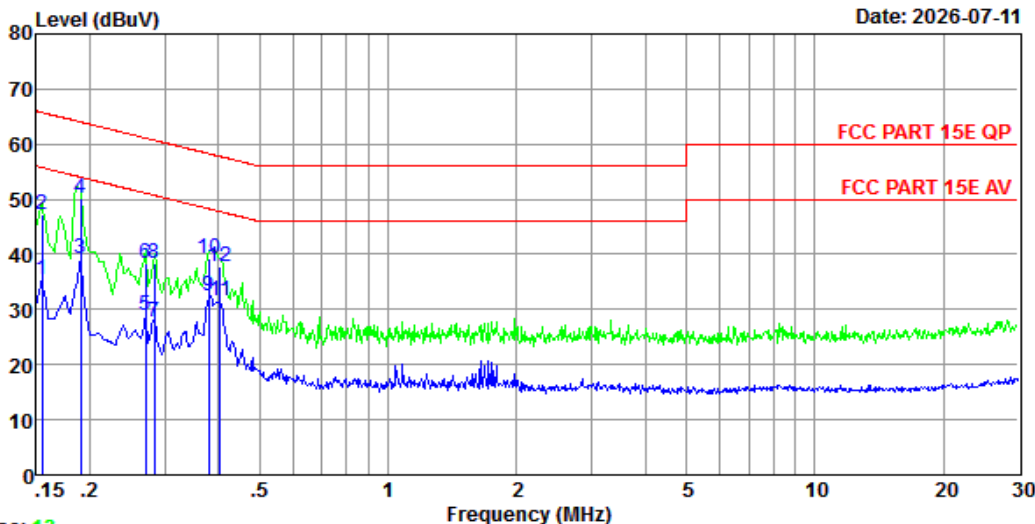
EST Technology

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Data: 14

File: \\CE-2\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q.EM6 (48)

Date: 2026-07-11



Trace: 13

Site no : 2#CE Shield Room Data no. : 14
 Env. / Ins. : Temp:23.8℃;Humi:58%;Press:101.2kPa LINE Phase : LINE
 Limit : FCC PART 15E QP
 Engineer : Dylan Cai
 EUT : 5.1.2CH Soundbar with Wireless Subwoofer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : S5120Q
 Test Mode : TX Mode
 Sample No. : EST-260630008-003

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.94	9.83	15.78	35.55	55.74	20.19	Average
2	0.15	9.94	9.83	27.56	47.33	65.74	18.41	QP
3	0.19	9.92	9.85	19.39	39.16	54.02	14.86	Average
4	0.19	9.92	9.85	30.42	50.19	64.02	13.83	QP
5	0.27	9.87	9.85	9.13	28.85	51.12	22.27	Average
6	0.27	9.87	9.85	18.56	38.28	61.12	22.84	QP
7	0.28	9.87	9.85	8.14	27.86	50.72	22.86	Average
8	0.28	9.87	9.85	18.55	38.27	60.72	22.45	QP
9	0.38	9.83	9.84	12.67	32.34	48.30	15.96	Average
10	0.38	9.83	9.84	19.59	39.26	58.30	19.04	QP
11	0.40	9.82	9.84	11.80	31.46	47.77	16.31	Average
12	0.40	9.82	9.84	18.20	37.86	57.77	19.91	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.

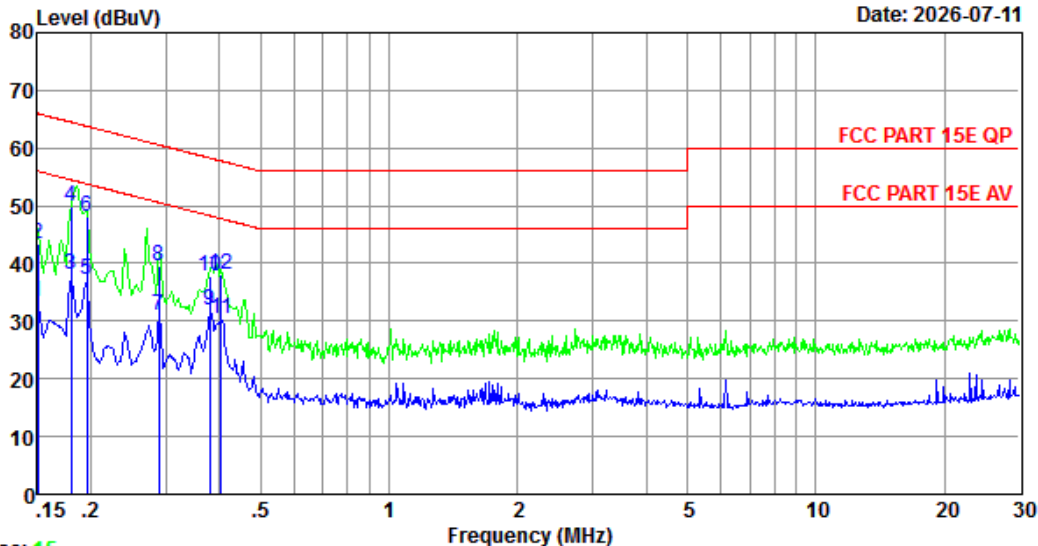
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Data: 16

File: \\CE-2\Test Data\2026\Report\RF\Xin Yang Guo Ji\S5120Q.EM6 (48)

Date: 2026-07-11



Trace: 15

Site no : 2#CE Shield Room Data no. : 16
Env. / Ins. : Temp:23.8°C;Humi:58%;Press:101.2kPa LINE Phase : NEUTRAL
Limit : FCC PART 15E QP
Engineer : Dylan Cai
EUT : 5.1.2CH Soundbar with Wireless Subwoofer
Power : DC 24V From Adapter Input AC 120V/60Hz
M/N : S5120Q
Test Mode : TX Mode
Sample No. : EST-260630008-003

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	9.92	9.83	13.49	33.24	56.00	22.76	Average
2	0.15	9.92	9.83	23.51	43.26	66.00	22.74	QP
3	0.18	9.86	9.85	18.39	38.10	54.50	16.40	Average
4	0.18	9.86	9.85	30.07	49.78	64.50	14.72	QP
5	0.20	9.86	9.85	17.61	37.32	53.80	16.48	Average
6	0.20	9.86	9.85	28.54	48.25	63.80	15.55	QP
7	0.29	9.86	9.85	11.23	30.94	50.54	19.60	Average
8	0.29	9.86	9.85	19.77	39.48	60.54	21.06	QP
9	0.38	9.83	9.84	12.15	31.82	48.30	16.48	Average
10	0.38	9.83	9.84	18.26	37.93	58.30	20.37	QP
11	0.40	9.82	9.84	10.84	30.50	47.77	17.27	Average
12	0.40	9.82	9.84	18.33	37.99	57.77	19.78	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

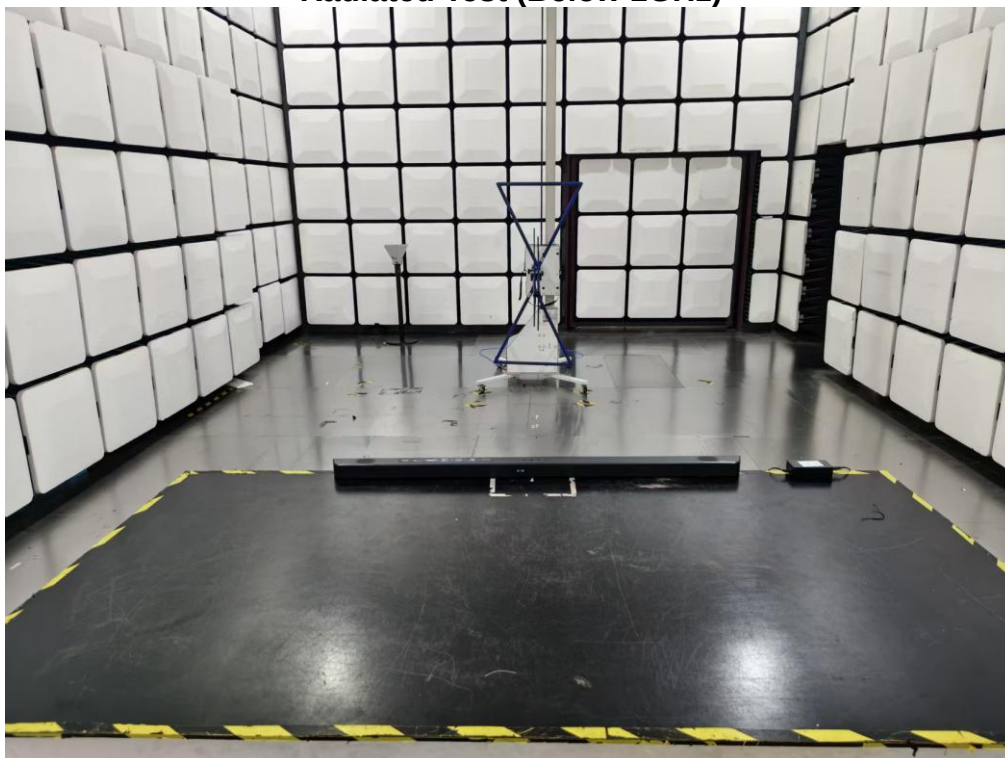
The antennas used for this product is Internal antenna, so compliance with antenna requirements. (Please refer to the EUT photo for details)

10.TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)



11.EUT PHOTO

Refer to report no. ESTE-R2607315

End of Test Report