FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

TCL OVERSEAS MARKETING LTD

7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers

Model Number: Q85H

Additional Model: Q80H, Q88H, Q89H, Q85HE, Q85HK, Q8*****, Q85H-S, Q80H-S, Q88H-S, Q89H-S, Q85H-J, Q80H-J, Q88H-J, Q89H-J, Q85H-CA, Q80H-CA, Q88H-CA, Q89H-CA, R70C, R75C, R78C, R70D, R75D, R78D, R7***
(*can be any numerica number"0~9" or alphebtical number "A~Z")

FCC ID: 2BEHEQ85H

Applicant :	TCL OVERSEAS MARKETING LTD
Address:	5/F, Building 22E, 22 Science Park East Avenue HongKong
	Science Park Shatin Hong Kong
Prepared By:	EST Technology Co., Ltd.
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
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Report Number:	ESTE-R2405036
Date of Test:	Apr. 15, 2024~ May. 07, 2024
Date of Report:	May. 11, 2024

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Applicant: **Address:**	TCL OVERSEAS MARKETING LTD 5/F, Building 22E, 22 Science Park East Avenue HongKong Science Park Shatin Hong Kong
Manufacturer: **Address:**	TCL OVERSEAS MARKETING LTD 5/F, Building 22E, 22 Science Park East Avenue HongKong Science Park Shatin Hong Kong
Factory: **Address:**	Tonly Technology Co., Ltd. Tongqiao Factory A&B Building, NO. 88, North Of Luen Fat Road, Tongqiao Industrial Base, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, P.R.China
E.U.T:	7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Model Number:	Q85H
Additional Model:	Q80H, Q88H, Q89H, Q85HE, Q85HK, Q8*****, Q85H-S, Q80H-S, Q88H-S, Q89H-S, Q85H-J, Q80H-J, Q88H-J, Q89H-J, Q85H-CA, Q80H-CA, Q88H-CA, Q89H-CA, R70C, R75C, R78C, R70D, R75D, R78D, R7***(*can be any numerica number"0~9" or alphebtical number "A~Z") Note: They are identical except model name.
Power Supply:	AC 100-240V, 50/60Hz
Trade Name:	TCL, FFALCON Serial No.: ------
Date of Receipt:	Apr. 15, 2024 Date of Test: Apr. 15, 2024~ May. 07, 2024
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output 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. **Date: May. 11, 2024**

Prepared by:	Reviewed by:	Approved by:
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.

1.GENERAL INFORMATION

1.1.Description of Device (EUT)

FCC ID	:	2BEHEQ85H
Product Name	:	7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Model Number	:	Q85H
Software Version	:	V06
Hardware Version	:	V02
Operation frequency	:	U-NII-1: 5150 MHz~5250 MHz U-NII-2A: 5250 MHz~5350 MHz U-NII-2C: 5470 MHz~5725 MHz U-NII-3: 5725 MHz~5850 MHz
Number of channel	:	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20: 4 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel. U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20: 4 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel. U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20: 11 Channels; IEEE 802.11n HT40 / ac VHT40: 5 Channels; IEEE 802.11ac VHT80: 2 Channel. U-NII-3: IEEE 802.11a / n HT20 / ac VHT20: 5 Channels; IEEE 802.11n HT40 / ac VHT40: 2 Channels; IEEE 802.11ac VHT80: 1 Channel.
Modulation	:	OFDM
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps; IEEE 802.11n: up 300Mbps IEEE 802.11ac: up to 867Mbps
Channels Spacing	:	IEEE 802.11a: 20MHz; IEEE 802.11n HT20: 20MHz; IEEE 802.11n HT40: 40MHz; IEEE 802.11ac VHT20: 20MHz; IEEE 802.11ac VHT40: 40MHz; IEEE 802.11ac VHT80: 80MHz;

Transmit Power	:	U-NII-1	IEEE 802.11a: 14.70dBm IEEE 802.11n HT20: 17.25dBm IEEE 802.11n HT40: 17.66dBm IEEE 802.11ac VHT20: 17.3dBm IEEE 802.11ac VHT40: 17.42dBm IEEE 802.11ac VHT80: 15.33dBm
		U-NII-2A	IEEE 802.11a: 14.42dBm IEEE 802.11n HT20: 16.86dBm IEEE 802.11n HT40: 17.31dBm IEEE 802.11ac VHT20: 17.05dBm IEEE 802.11ac VHT40: 17.34dBm IEEE 802.11ac VHT80: 15.25dBm
		U-NII-2C	IEEE 802.11a: 14.54dBm IEEE 802.11n HT20: 18.62dBm IEEE 802.11n HT40: 17.52dBm IEEE 802.11ac VHT20: 17.41dBm IEEE 802.11ac VHT40: 18.08dBm IEEE 802.11ac VHT80: 15.21dBm
		U-NII-3	IEEE 802.11a: 14.6dBm IEEE 802.11n HT20: 17.41dBm IEEE 802.11n HT40: 17.59dBm IEEE 802.11ac VHT20: 17.26dBm IEEE 802.11ac VHT40: 18.02dBm IEEE 802.11ac VHT80: 15.43dBm
Sample Type	:	Prototype production	

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

1.2.The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	4.4
2	-	-	Internal	-	4.1

Remark:
(1) After pre-test all antenna configurations,the worst case configuration as list below.
(2) The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
(3) 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 1 and ANT 2	/
IEEE 802.11n HT20	/	ANT1+ANT2
IEEE 802.11n HT40	/	ANT1+ANT2
IEEE 802.11ac VHT20	/	ANT1+ANT2
IEEE 802.11ac VHT40	/	ANT1+ANT2
IEEE 802.11ac VHT80	/	ANT1+ANT2

1.3.Information of RF Cable

Cable Loss(dB)	Provided by
1.0	TCL OVERSEAS MARKETING LTD

Note:
1.The customer declared the loss value of the RF Cable. and the test results of thisreport only apply to the sample as received.
2.The laboratory is not responsible for the accuracy of the cable loss.

2.SUMMARY OF TEST

2.1.Summary of test result

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

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

2.2.Test Facilities

EMC Lab	:	Accredited by CNAS, CHINA Registration No.: L5288 This Accreditation is valid until: November 12, 2029 Recognized by FCC, USA Designation Number: CN1215 This Recognition is valid until: January 31, 2026 Accredited by A2LA, USA Registration No.: 4366.01 This Accreditation is valid until: January 31, 2026 Recognized by Industry Canada CAB identifier No.: CN0035 This Recognition is valid until: January 31, 2026 Recognized by VCCI, Japan Registration No.:C-14103; T-20073; R-13663; R-20103; G-20097 Date of registration: Apr. 20, 2020 This Recognition is valid until: Apr. 19, 2026 Recognized by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018 Recognized by Intertek Registration No.: 2011-RTL-L2-64 Date of registration: November 08, 2018
Name of Firm	:	EST Technology Co., Ltd.
Site Location	:	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

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

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

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

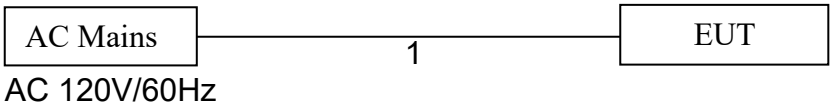
2.4.Assistant equipment used for test

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

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC 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.



AC 120V/60Hz

(EUT: 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers)

2.6.Test Mode

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

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

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

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

2.7.Channel List

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

2.8.Power Setting of Test Software

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

Note: This information is provided by the applicant.

2.9.Duty Cycle of Test Signal

Refer to section 10: Appendix B

Note:

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

2.10. Test Equipment List

For AC power conducted emissions test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emissions test(9KHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWAREBECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test(30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 12,23	1 Year
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 12,23	1 Year
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 12,23	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV40	EST-E069	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

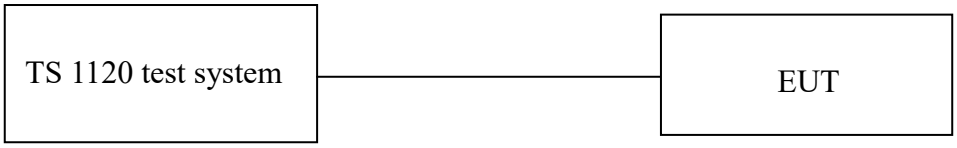
For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 12,23	1 Year
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 12,23	1 Year

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 :

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 3.3.
c. Set the EUT transmit continuously with maximum output power.
d. 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%.
e. Repeat above procedures until all modes and channels were measured.
f. Record the results in the test report.

For 6dB Bandwidth Measurement :

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 3.3.
c. Set the EUT transmit continuously with maximum output power.
d. 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.
e. Repeat above procedures until all modes and channels were measured.
f. Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

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

3.5.Test Result

Refer to section 10: Appendix A1/A2/A3

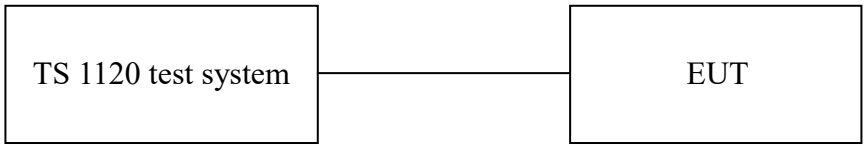
4.MAXIMUM CONDUCTED OUTPUT POWER

4.1.Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p≦ 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

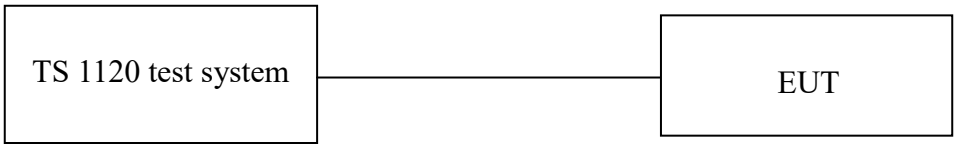
Refer to section 10: Appendix C

5.PEAK POWER SPECTRAL DENSITY

5.1.Limit

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

5.2.Test Setup



5.3.Spectrum Analyzer Setting

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

5.4.Test Procedure

a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
b. Spectrum analyzer setting parameters in accordance with section 5.3.
c. Set the EUT transmit continuously with maximum output power.
d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
e. If the duty cycle of test siganl＜98%,the result=max measured value+10×log(1/duty cycle); If the duty cycle of test siganl≥98%,the esult=max measured value.
f. Repeat above procedures until all modes and channels were measured.
g. Record the results in the test report.

5.5.Test Result

Refer to section 10: Appendix D

6.UNWANTED EMISSIONS AND BAND EDGE

6.1.Limit

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

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μV/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. dBμV/m=20Log(μV/m)
2. Above 1GHz the formula is used to convert the EIRP to field strength

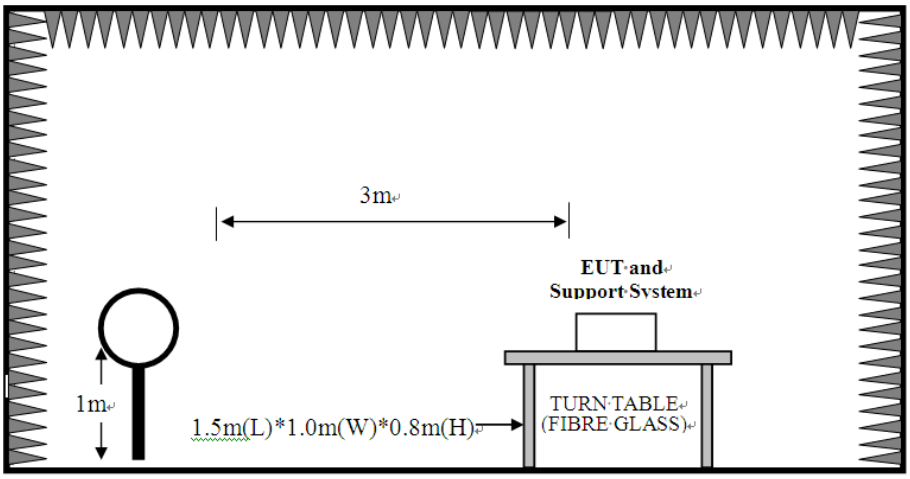
$$E[\text{dBμV/m}] = \text{EIRP}[\text{dBm}] - 20\log(d[\text{m}]) + 104.77$$

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

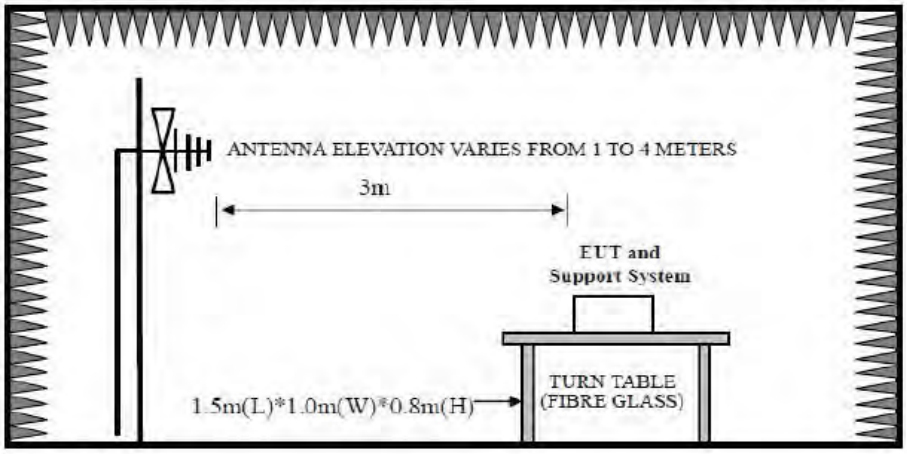
for example,3m field strength(dBμV/m)=EIRP-20log(3)+104.77=EIRP+95.2

6.2.Test Setup

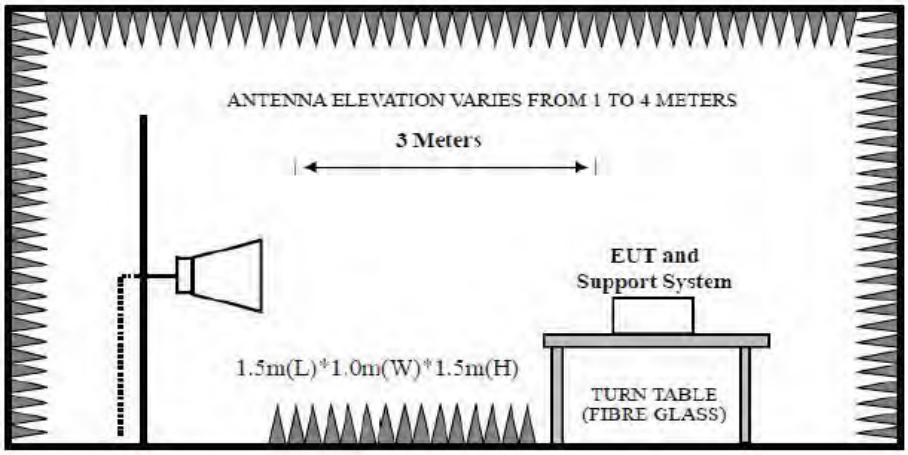
9kHz~30MHz



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≥98%,VBW=10Hz Duty cycle＜98%,VBW≥1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	

Detector	PEAK
Trace Mode	Max Hold

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

6.4.Test Procedure

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 all have been tested, only worst case IEEE 802.11n HT20 is recorded.

6.5.Test Result

Radiated Emissions Below 1GHz

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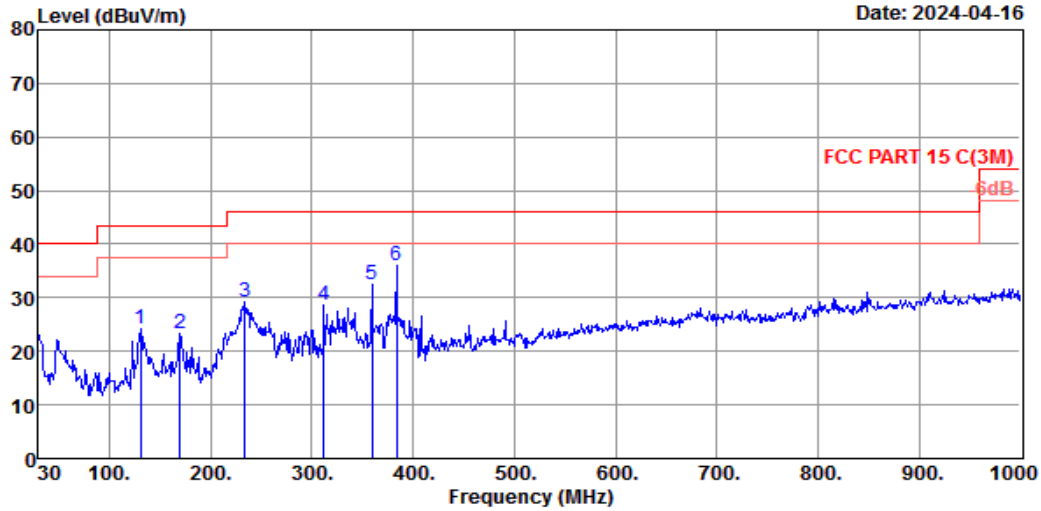
Data: 133 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-RED.EM6 (134)



Site no. : 1# 966 Chamber Data no. : 133
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:22.3℃.Humi:60%;Press:101.1KPa
Engineer : TSZ
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	130.880	11.80	1.63	10.79	24.22	43.50	19.28	QP
2	169.680	10.10	1.87	11.28	23.25	43.50	20.25	QP
3	233.700	10.56	2.23	16.54	29.33	46.00	16.67	QP
4	312.270	13.46	2.68	12.60	28.74	46.00	17.26	QP
5	359.800	15.30	2.88	14.32	32.50	46.00	13.50	QP
6	384.050	16.04	2.99	16.96	35.99	46.00	10.01	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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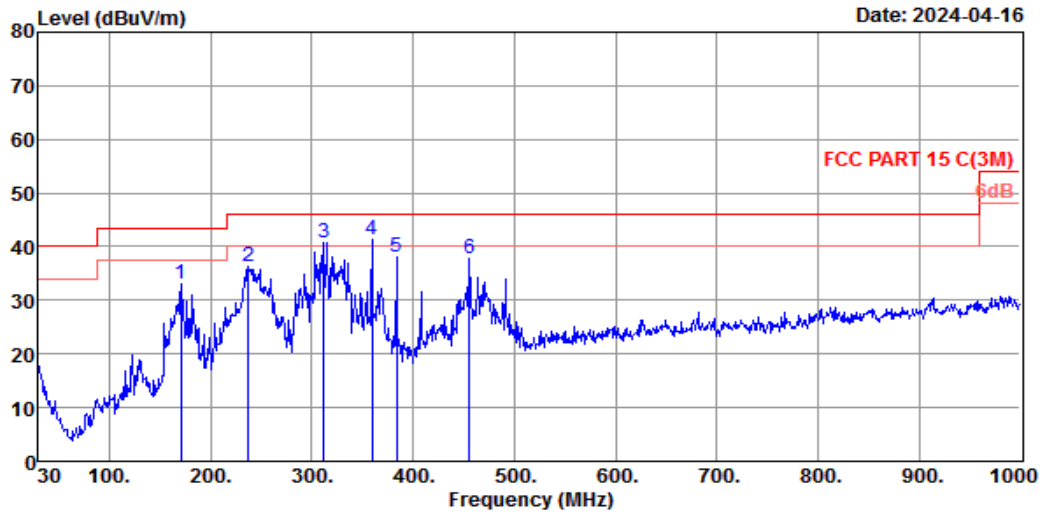
Data: 134 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-RED.EM6 (134)



Site no. : 1# 966 Chamber Data no. : 134
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:22.3℃.Humi:60%;Press:101.1KPa
Engineer : TSZ
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	170.650	9.50	1.88	21.68	33.06	43.50	10.44	QP
2	237.580	10.80	2.25	23.24	36.29	46.00	9.71	QP
3	312.270	13.46	2.68	24.65	40.79	46.00	5.21	QP
4	359.800	15.30	2.88	23.28	41.46	46.00	4.54	QP
5	384.050	16.04	2.99	18.90	37.93	46.00	8.07	QP
6	455.830	18.20	3.26	16.39	37.85	46.00	8.15	QP

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

Note:

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

Radiated Emissions Above 1G

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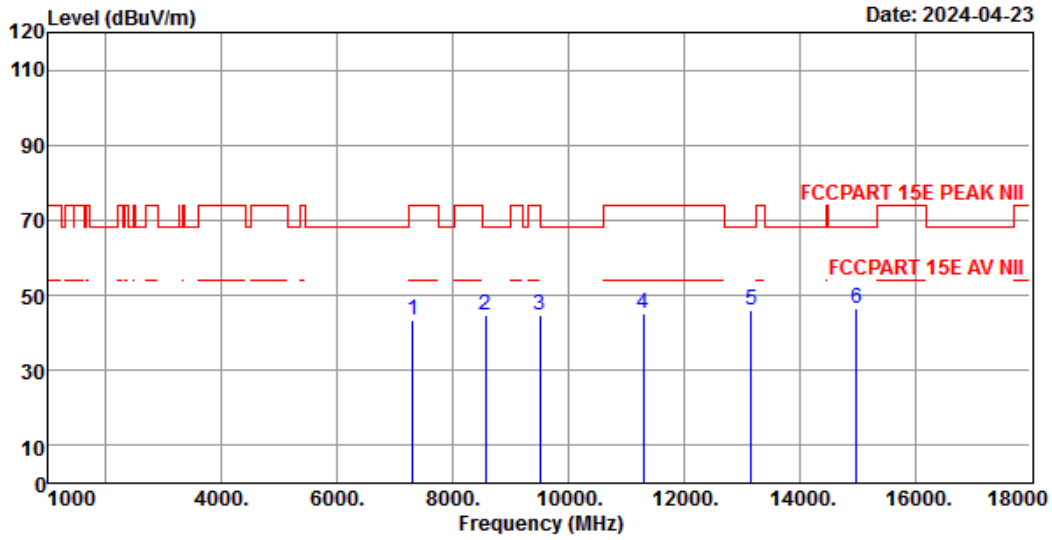
Data: 169 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 169
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7307.00	36.25	6.70	44.07	44.67	43.55	74.00	30.45	Peak
2	8565.00	37.48	7.40	43.66	43.67	44.89	68.20	23.31	Peak
3	9500.00	38.10	7.78	43.60	42.28	44.56	68.20	23.64	Peak
4	11302.00	38.87	8.43	42.76	40.84	45.38	74.00	28.62	Peak
5	13172.00	39.75	9.35	40.80	37.81	46.11	68.20	22.09	Peak
6	14991.00	39.50	10.24	43.26	40.20	46.68	68.20	21.52	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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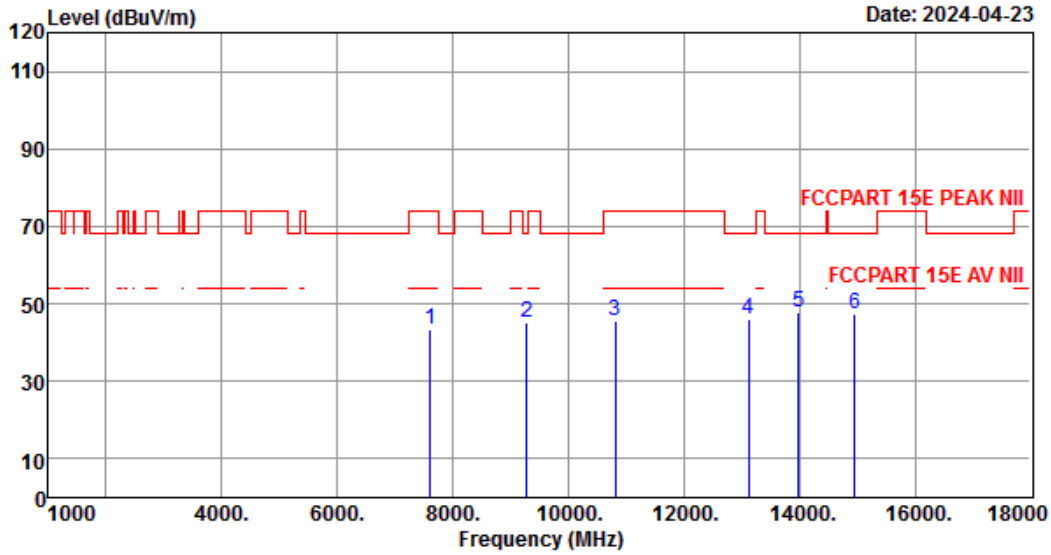
Data: 170 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 170
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7613.00	36.49	6.80	44.04	44.02	43.27	74.00	30.73	Peak
2	9279.00	38.06	7.78	43.51	42.90	45.23	68.20	22.97	Peak
3	10809.00	38.77	8.17	43.15	42.02	45.81	74.00	28.19	Peak
4	13121.00	39.74	9.32	40.80	37.80	46.06	68.20	22.14	Peak
5	13988.00	40.00	9.76	40.80	38.98	47.94	68.20	20.26	Peak
6	14957.00	39.52	10.23	43.17	41.02	47.60	68.20	20.60	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.

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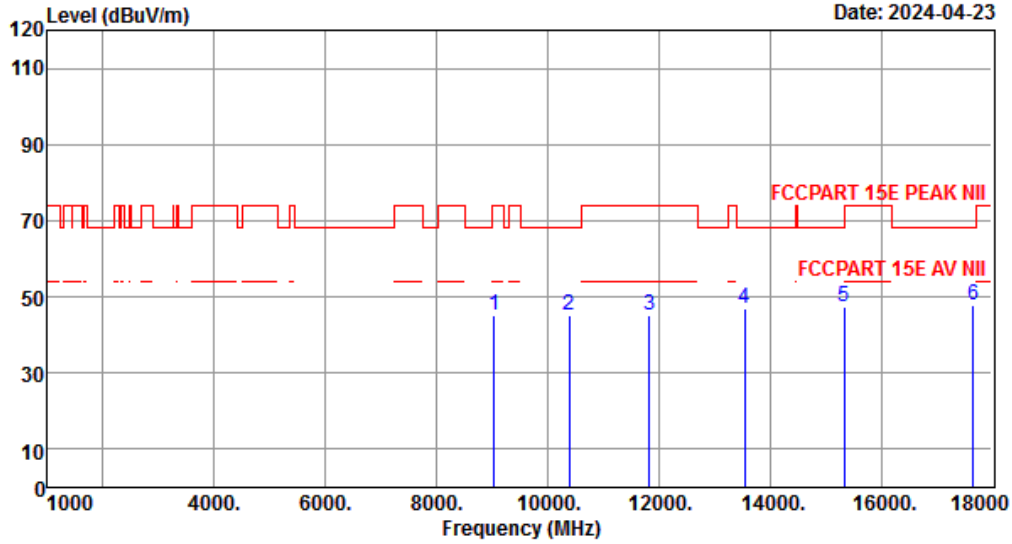
Data: 171 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 171
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9041.00	38.01	7.78	43.41	42.87	45.25	74.00	28.75	Peak
2	10384.00	38.47	7.96	43.49	42.38	45.32	68.20	22.88	Peak
3	11829.00	38.82	8.73	42.34	40.12	45.33	74.00	28.67	Peak
4	13546.00	39.86	9.54	40.80	38.27	46.87	68.20	21.33	Peak
5	15331.00	38.94	10.38	43.56	41.53	47.29	68.20	20.91	Peak
6	17660.00	40.48	12.15	43.21	38.60	48.02	68.20	20.18	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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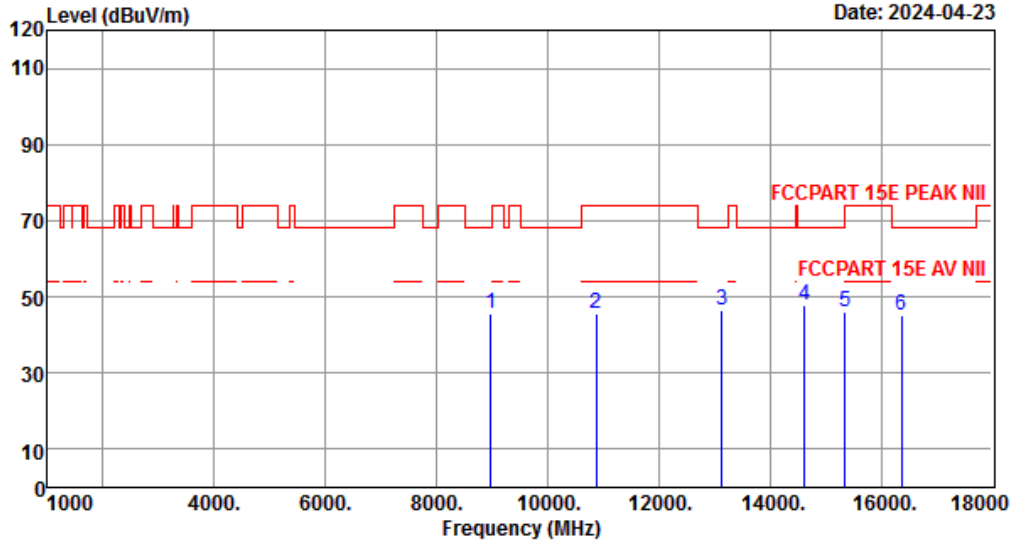
Data: 172 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 172
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8973.00	37.97	7.75	43.42	43.18	45.48	68.20	22.72	Peak
2	10877.00	38.81	8.20	43.09	41.72	45.64	74.00	28.36	Peak
3	13138.00	39.74	9.33	40.80	38.22	46.49	68.20	21.71	Peak
4	14617.00	39.69	10.06	42.33	40.58	48.00	68.20	20.20	Peak
5	15348.00	38.91	10.38	43.58	40.20	45.91	68.20	22.29	Peak
6	16368.00	37.98	10.99	44.14	40.15	44.98	68.20	23.22	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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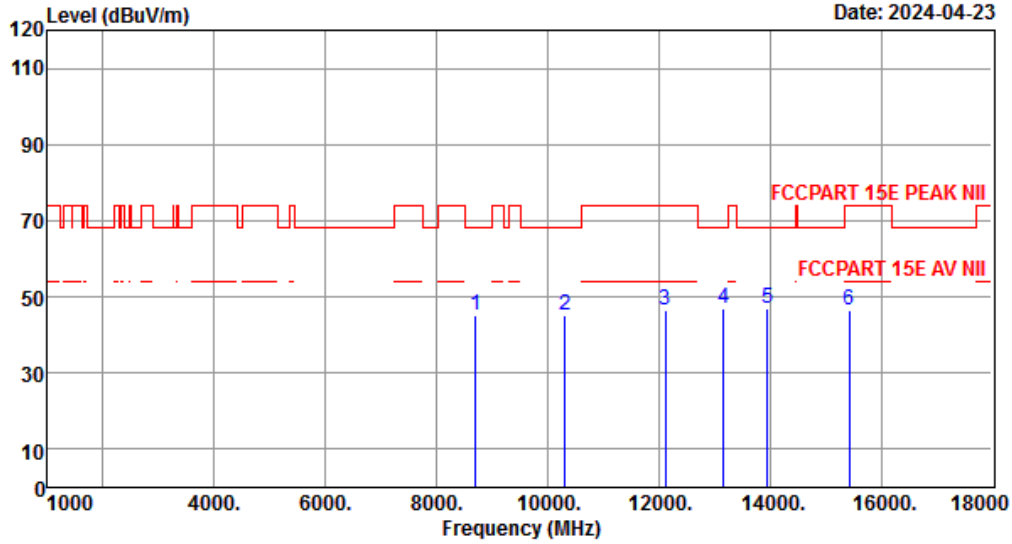
Data: 173 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 173
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8701.00	37.64	7.52	43.58	43.51	45.09	68.20	23.11	Peak
2	10316.00	38.42	7.93	43.54	42.53	45.34	68.20	22.86	Peak
3	12118.00	38.91	8.88	42.03	40.57	46.33	74.00	27.67	Peak
4	13172.00	39.75	9.35	40.80	38.80	47.10	68.20	21.10	Peak
5	13954.00	39.99	9.74	40.80	38.04	46.97	68.20	21.23	Peak
6	15433.00	38.76	10.42	43.64	41.15	46.69	74.00	27.31	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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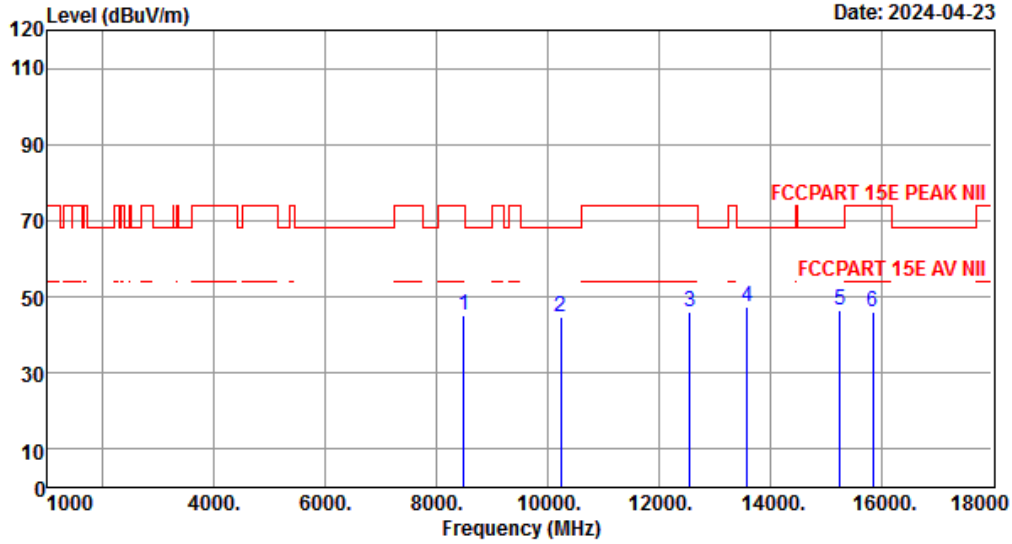
Data: 174 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 174
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8497.00	37.40	7.34	43.71	44.00	45.03	74.00	28.97	Peak
2	10231.00	38.36	7.89	43.61	42.29	44.93	68.20	23.27	Peak
3	12560.00	39.30	9.07	41.42	39.28	46.23	74.00	27.77	Peak
4	13597.00	39.88	9.56	40.80	38.95	47.59	68.20	20.61	Peak
5	15263.00	39.05	10.35	43.51	40.70	46.59	68.20	21.61	Peak
6	15858.00	38.04	10.59	43.99	41.25	45.89	74.00	28.11	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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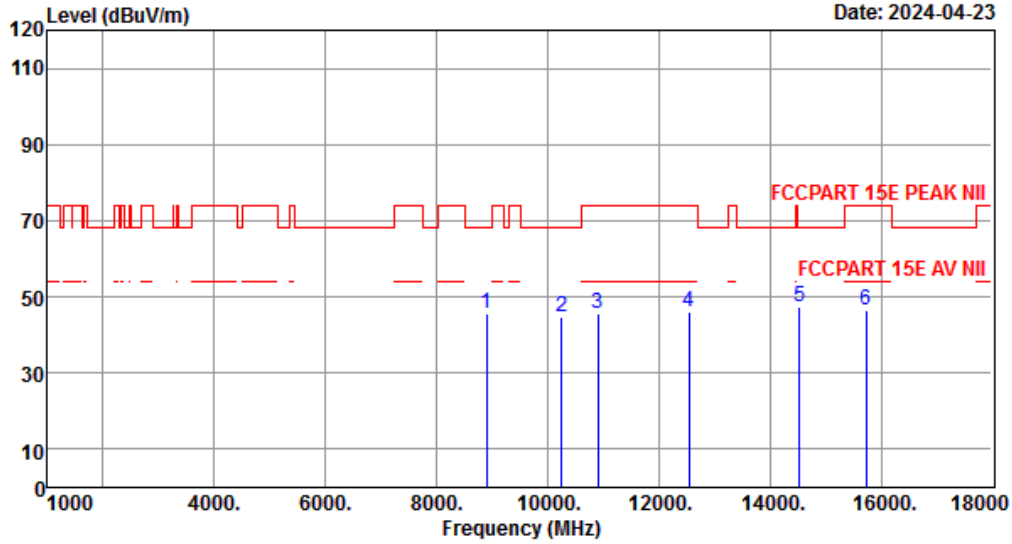
Data: 175 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 175
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8905.00	37.89	7.69	43.46	43.38	45.50	68.20	22.70	Peak
2	10248.00	38.37	7.89	43.60	42.07	44.73	68.20	23.47	Peak
3	10911.00	38.84	8.22	43.07	41.63	45.62	74.00	28.38	Peak
4	12543.00	39.29	9.06	41.44	39.02	45.93	74.00	28.07	Peak
5	14532.00	39.73	10.02	42.11	39.62	47.26	68.20	20.94	Peak
6	15739.00	38.24	10.54	43.89	41.49	46.38	74.00	27.62	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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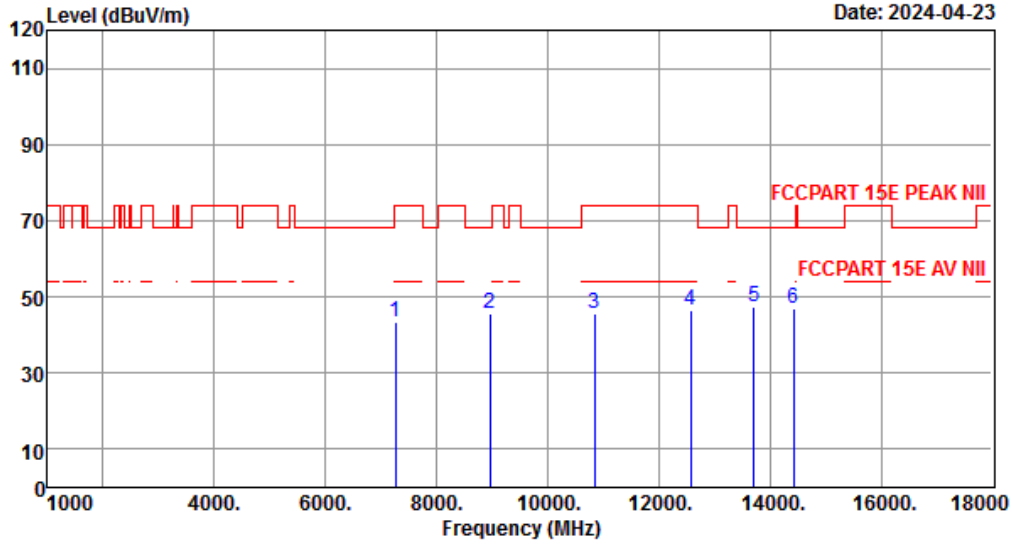
Data: 176 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 176
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5260MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7256.00	36.20	6.68	44.07	44.75	43.56	74.00	30.44	Peak
2	8956.00	37.95	7.74	43.43	43.27	45.53	68.20	22.67	Peak
3	10843.00	38.79	8.19	43.12	41.97	45.83	74.00	28.17	Peak
4	12577.00	39.32	9.08	41.39	39.50	46.51	74.00	27.49	Peak
5	13716.00	39.91	9.62	40.80	38.79	47.52	68.20	20.68	Peak
6	14430.00	39.78	9.97	41.86	39.16	47.05	68.20	21.15	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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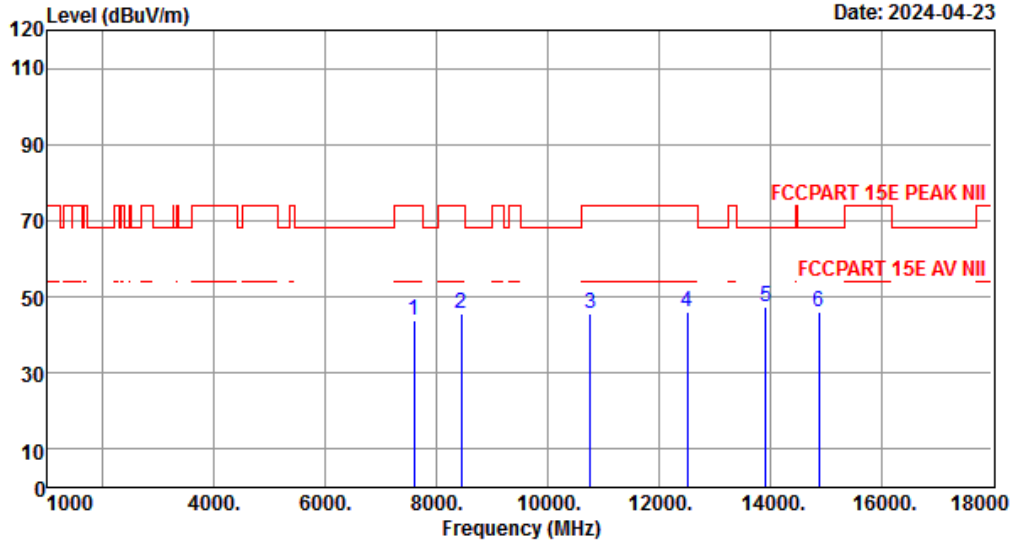
Data: 177 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 177
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7596.00	36.48	6.79	44.04	44.42	43.65	74.00	30.35	Peak
2	8446.00	37.34	7.30	43.74	44.62	45.52	74.00	28.48	Peak
3	10775.00	38.74	8.15	43.18	41.85	45.56	74.00	28.44	Peak
4	12509.00	39.26	9.05	41.49	39.24	46.06	74.00	27.94	Peak
5	13920.00	39.98	9.73	40.80	38.32	47.23	68.20	20.97	Peak
6	14889.00	39.56	10.19	43.00	39.38	46.13	68.20	22.07	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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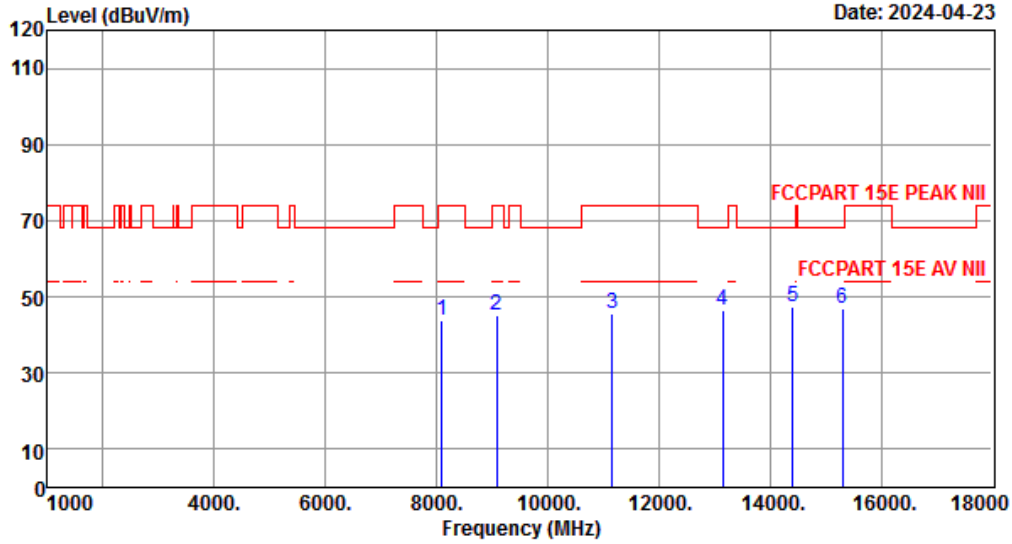
Data: 178 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 178
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8089.00	36.91	6.99	43.95	43.77	43.72	74.00	30.28	Peak
2	9075.00	38.01	7.78	43.43	42.73	45.09	74.00	28.91	Peak
3	11166.00	38.88	8.36	42.86	41.01	45.39	74.00	28.61	Peak
4	13155.00	39.75	9.34	40.80	38.10	46.39	68.20	21.81	Peak
5	14413.00	39.79	9.97	41.82	39.39	47.33	68.20	20.87	Peak
6	15314.00	38.97	10.37	43.55	41.07	46.86	68.20	21.34	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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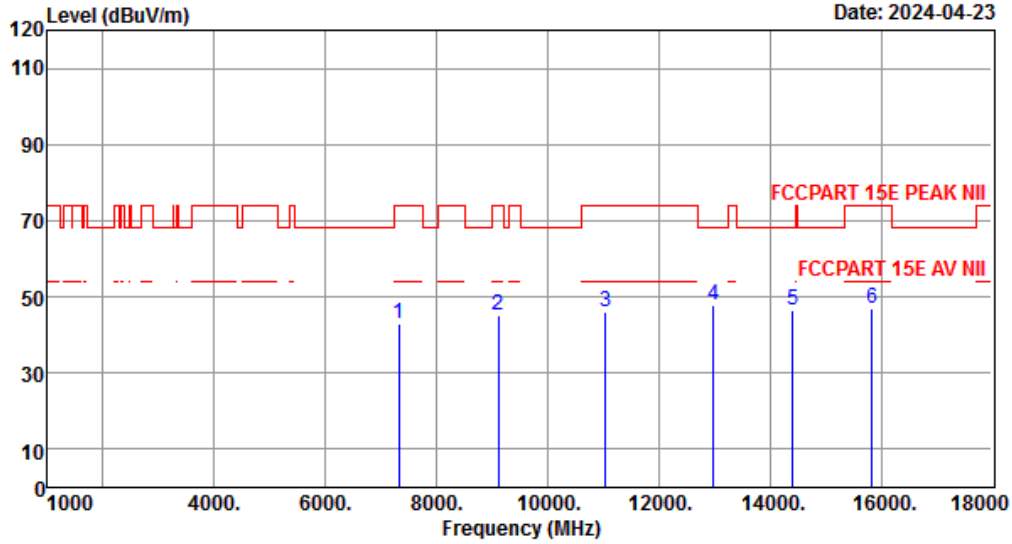
Data: 179 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 179
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7324.00	36.26	6.70	44.07	44.25	43.14	74.00	30.86	Peak
2	9109.00	38.02	7.78	43.44	42.59	44.95	74.00	29.05	Peak
3	11047.00	38.90	8.29	42.96	41.74	45.97	74.00	28.03	Peak
4	12985.00	39.69	9.25	40.82	39.83	47.95	68.20	20.25	Peak
5	14413.00	39.79	9.97	41.82	38.72	46.66	68.20	21.54	Peak
6	15841.00	38.07	10.58	43.98	42.07	46.74	74.00	27.26	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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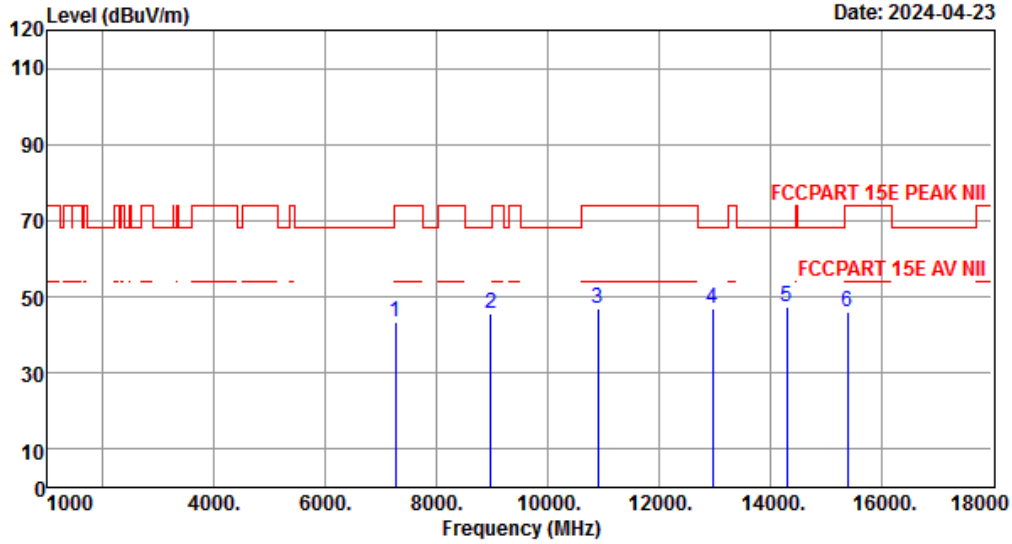
Data: 180 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 180
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7256.00	36.20	6.68	44.07	44.54	43.35	74.00	30.65	Peak
2	8973.00	37.97	7.75	43.42	43.39	45.69	68.20	22.51	Peak
3	10911.00	38.84	8.22	43.07	42.89	46.88	74.00	27.12	Peak
4	12968.00	39.67	9.25	40.85	38.78	46.85	68.20	21.35	Peak
5	14311.00	39.84	9.92	41.56	39.31	47.51	68.20	20.69	Peak
6	15399.00	38.82	10.40	43.62	40.24	45.84	74.00	28.16	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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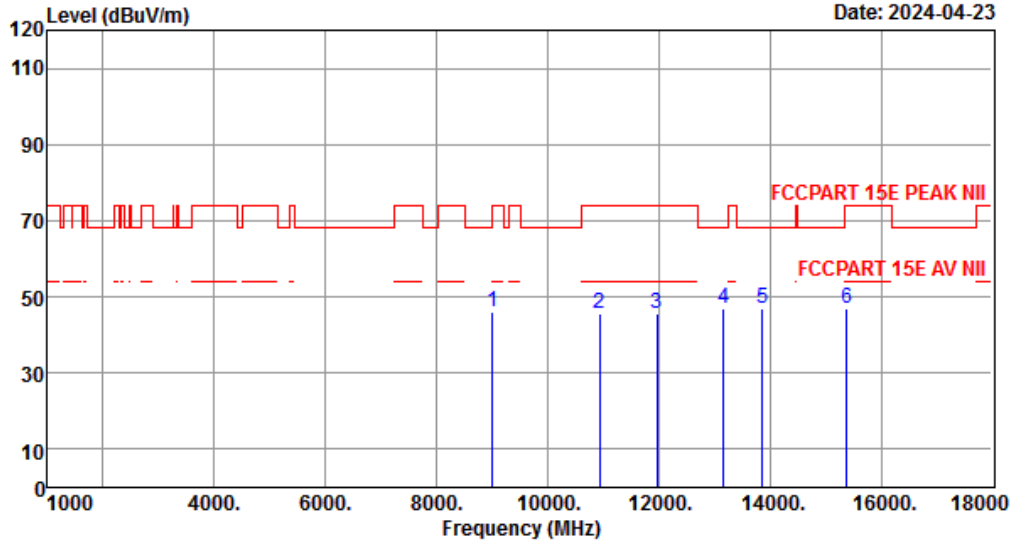
Data: 181 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 181
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9007.00	38.00	7.78	43.40	43.69	46.07	74.00	27.93	Peak
2	10928.00	38.85	8.23	43.05	41.67	45.70	74.00	28.30	Peak
3	11965.00	38.80	8.81	42.23	40.44	45.82	74.00	28.18	Peak
4	13172.00	39.75	9.35	40.80	38.65	46.95	68.20	21.25	Peak
5	13869.00	39.96	9.70	40.80	38.01	46.87	68.20	21.33	Peak
6	15382.00	38.85	10.40	43.60	41.16	46.81	74.00	27.19	Peak

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

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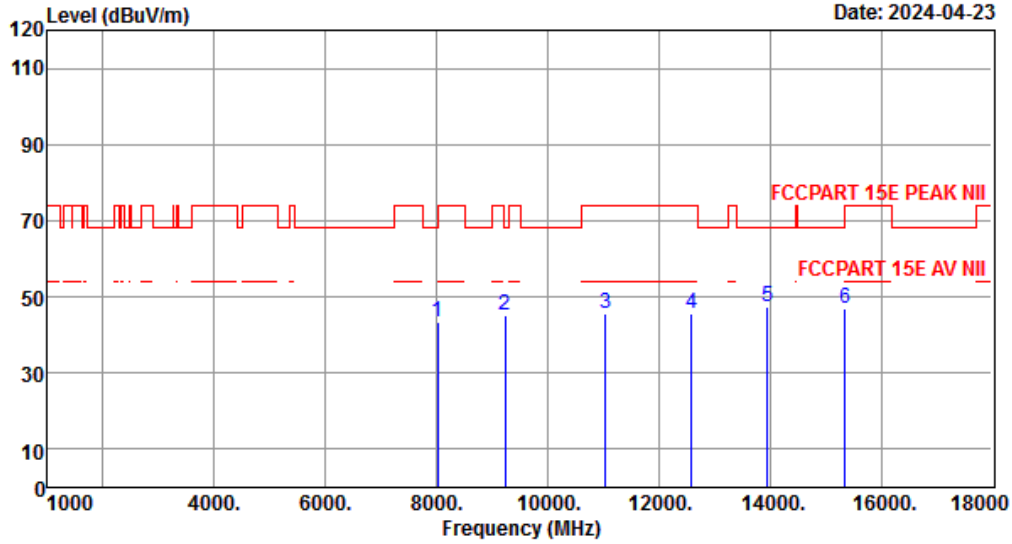
Data: 182 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 182
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8021.00	36.83	6.93	43.99	43.44	43.21	68.20	24.99	Peak
2	9228.00	38.05	7.78	43.49	42.64	44.98	68.20	23.22	Peak
3	11047.00	38.90	8.29	42.96	41.28	45.51	74.00	28.49	Peak
4	12594.00	39.33	9.09	41.37	38.69	45.74	74.00	28.26	Peak
5	13954.00	39.99	9.74	40.80	38.47	47.40	68.20	20.80	Peak
6	15348.00	38.91	10.38	43.58	41.01	46.72	68.20	21.48	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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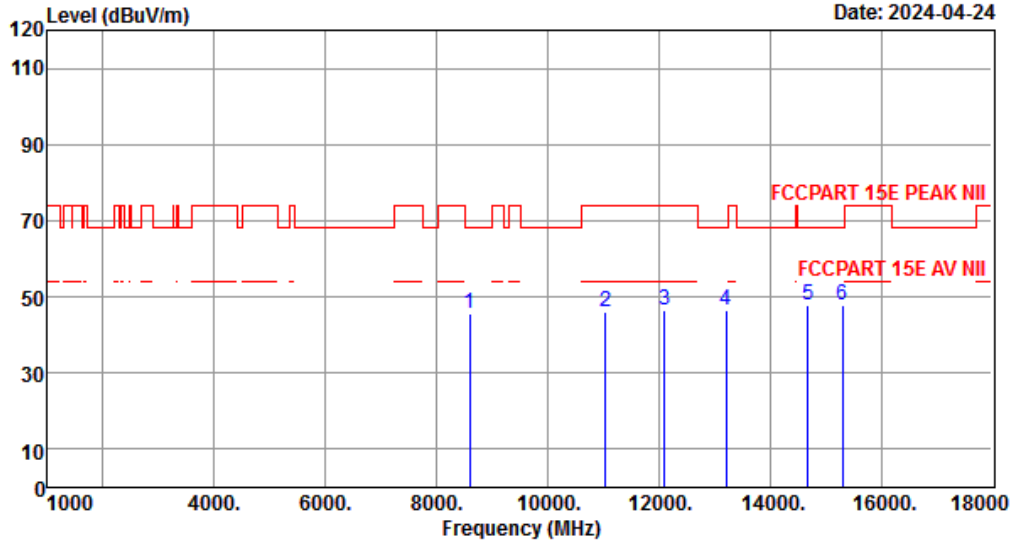
Data: 183 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 183
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8599.00	37.52	7.43	43.64	44.43	45.74	68.20	22.46	Peak
2	11047.00	38.90	8.29	42.96	41.75	45.98	74.00	28.02	Peak
3	12101.00	38.89	8.87	42.06	40.79	46.49	74.00	27.51	Peak
4	13206.00	39.76	9.36	40.80	38.13	46.45	68.20	21.75	Peak
5	14685.00	39.66	10.10	42.49	40.38	47.65	68.20	20.55	Peak
6	15314.00	38.97	10.37	43.55	41.82	47.61	68.20	20.59	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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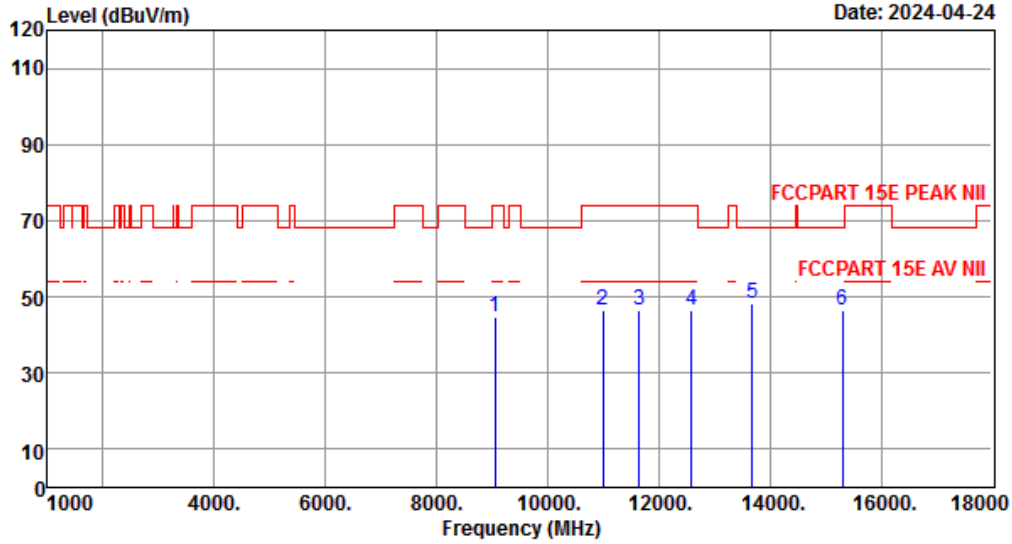
Data: 184 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 184
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9058.00	38.01	7.78	43.42	42.51	44.88	74.00	29.12	Peak
2	10996.00	38.90	8.26	43.00	42.12	46.28	74.00	27.72	Peak
3	11642.00	38.84	8.63	42.48	41.63	46.62	74.00	27.38	Peak
4	12594.00	39.33	9.09	41.37	39.26	46.31	74.00	27.69	Peak
5	13682.00	39.90	9.61	40.80	39.39	48.10	68.20	20.10	Peak
6	15314.00	38.97	10.37	43.55	40.84	46.63	68.20	21.57	Peak

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

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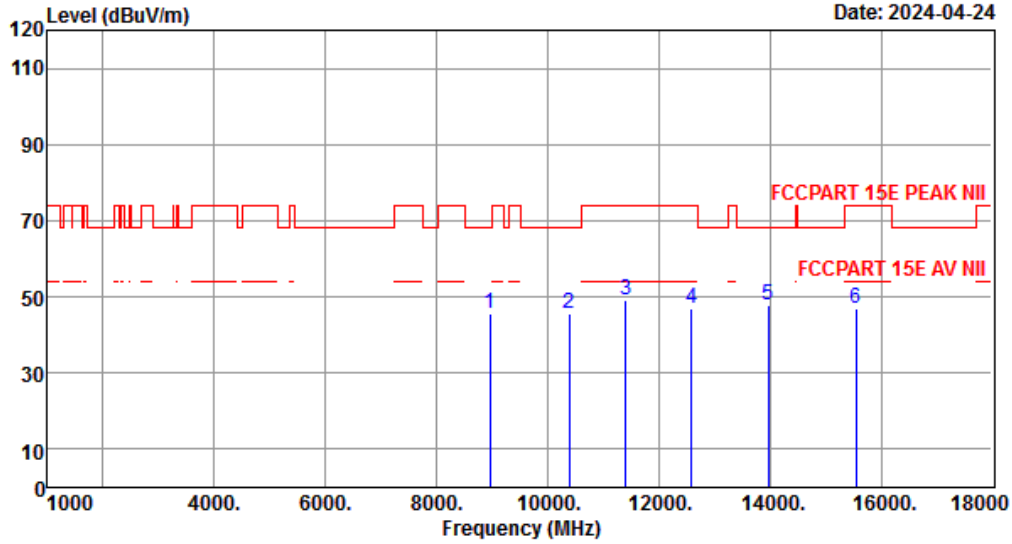
Data: 185 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 185
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8956.00	37.95	7.74	43.43	43.31	45.57	68.20	22.63	Peak
2	10384.00	38.47	7.96	43.49	42.82	45.76	68.20	22.44	Peak
3	11404.00	38.86	8.49	42.67	44.56	49.24	74.00	24.76	Peak
4	12594.00	39.33	9.09	41.37	40.10	47.15	74.00	26.85	Peak
5	13971.00	39.99	9.75	40.80	38.83	47.77	68.20	20.43	Peak
6	15552.00	38.56	10.47	43.74	41.71	47.00	74.00	27.00	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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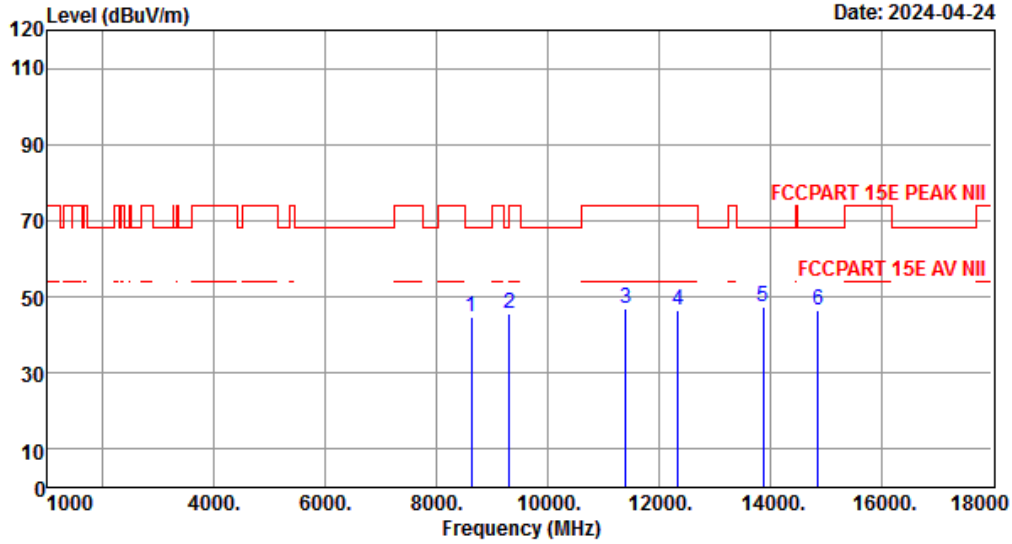
Data: 186 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 186
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8633.00	37.56	7.46	43.62	43.19	44.59	68.20	23.61	Peak
2	9313.00	38.06	7.78	43.52	43.23	45.55	74.00	28.45	Peak
3	11404.00	38.86	8.49	42.67	42.47	47.15	74.00	26.85	Peak
4	12339.00	39.11	8.98	41.73	40.13	46.49	74.00	27.51	Peak
5	13886.00	39.97	9.71	40.80	38.37	47.25	68.20	20.95	Peak
6	14872.00	39.56	10.18	42.96	39.90	46.68	68.20	21.52	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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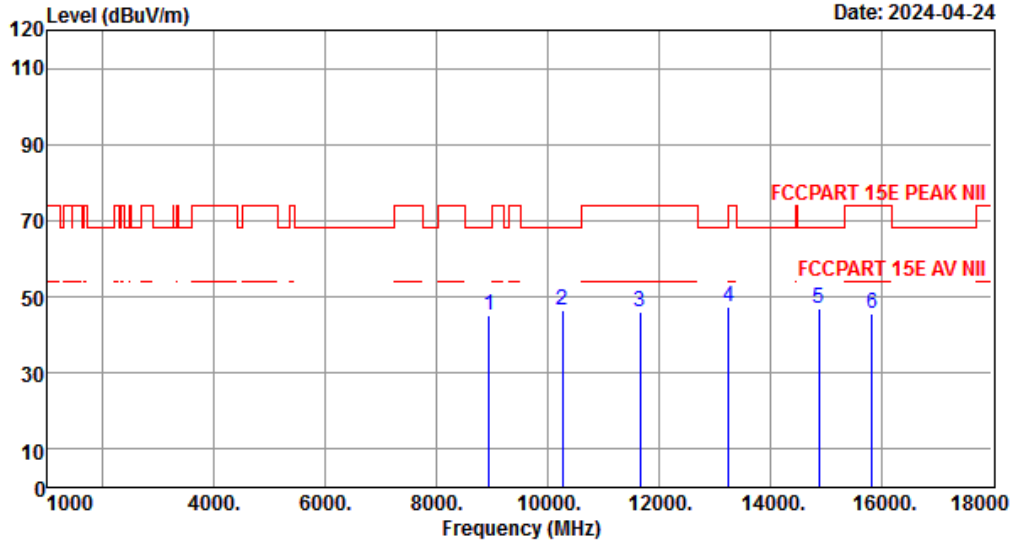
Data: 187 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 187
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8939.00	37.93	7.72	43.44	42.84	45.05	68.20	23.15	Peak
2	10265.00	38.39	7.90	43.58	43.77	46.48	68.20	21.72	Peak
3	11659.00	38.83	8.64	42.47	41.09	46.09	74.00	27.91	Peak
4	13257.00	39.78	9.39	40.80	38.95	47.32	74.00	26.68	Peak
5	14889.00	39.56	10.19	43.00	40.11	46.86	68.20	21.34	Peak
6	15841.00	38.07	10.58	43.98	40.74	45.41	74.00	28.59	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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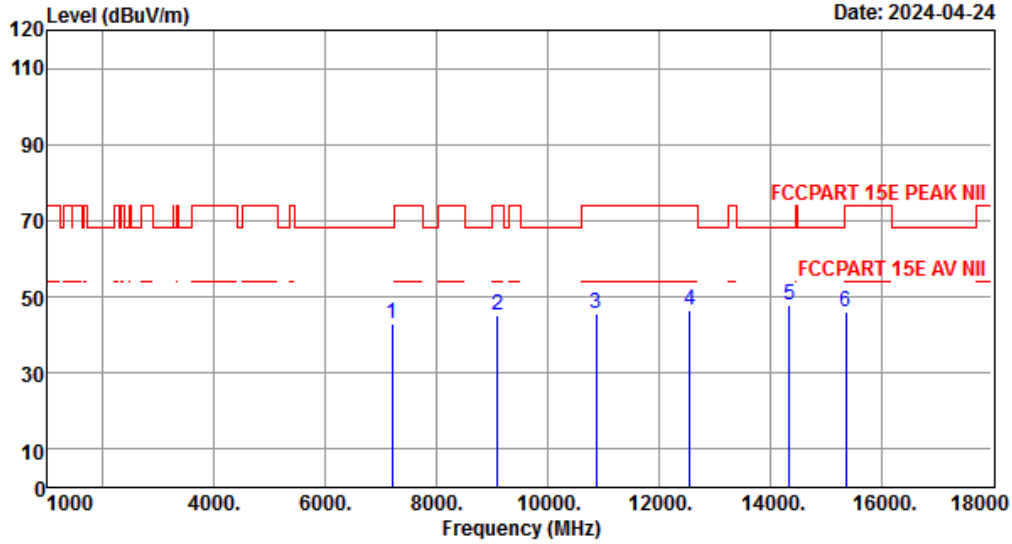
Data: 188 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 188
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	36.16	6.67	44.08	44.36	43.11	68.20	25.09	Peak
2	9092.00	38.02	7.78	43.43	42.79	45.16	74.00	28.84	Peak
3	10877.00	38.81	8.20	43.09	41.62	45.54	74.00	28.46	Peak
4	12560.00	39.30	9.07	41.42	39.44	46.39	74.00	27.61	Peak
5	14345.00	39.83	9.93	41.65	39.65	47.76	68.20	20.44	Peak
6	15365.00	38.88	10.39	43.59	40.22	45.90	74.00	28.10	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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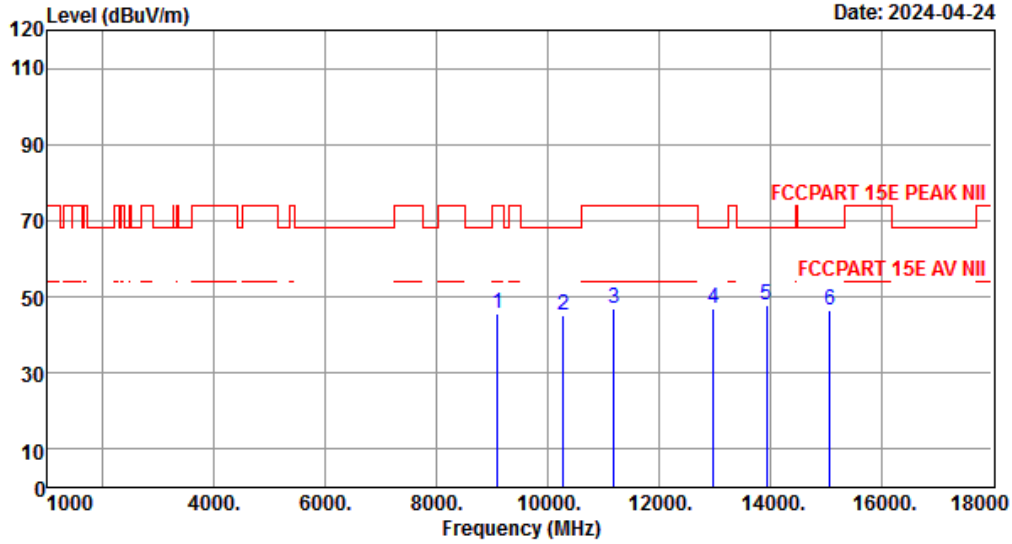
Data: 189 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 189
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9092.00	38.02	7.78	43.43	43.18	45.55	74.00	28.45	Peak
2	10282.00	38.40	7.91	43.57	42.64	45.38	68.20	22.82	Peak
3	11200.00	38.88	8.38	42.84	42.40	46.82	74.00	27.18	Peak
4	12985.00	39.69	9.25	40.82	38.62	46.74	68.20	21.46	Peak
5	13937.00	39.98	9.74	40.80	38.92	47.84	68.20	20.36	Peak
6	15076.00	39.37	10.28	43.36	40.27	46.56	68.20	21.64	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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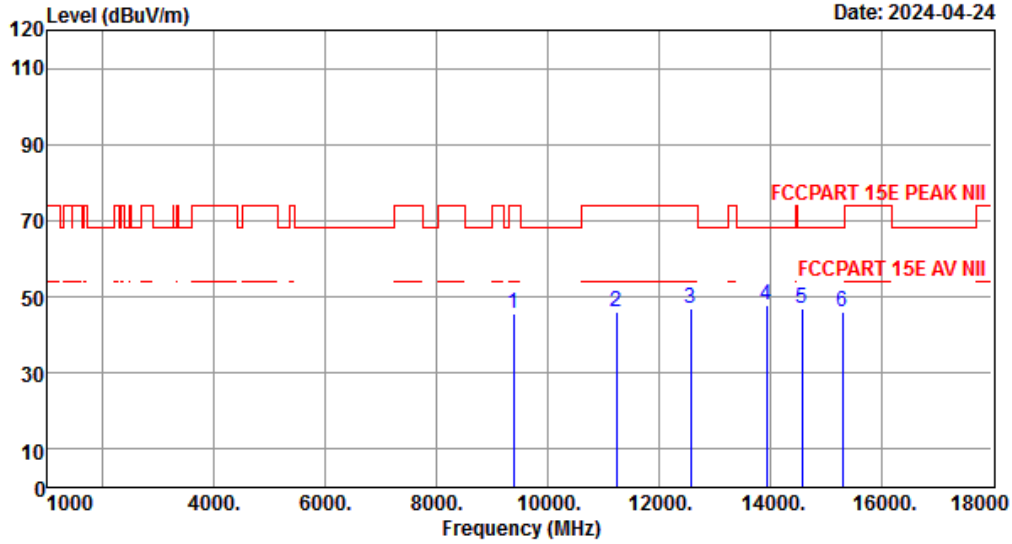
Data: 190 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 190
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5785MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9381.00	38.08	7.78	43.55	43.48	45.79	74.00	28.21	Peak
2	11234.00	38.88	8.40	42.81	41.47	45.94	74.00	28.06	Peak
3	12577.00	39.32	9.08	41.39	40.10	47.11	74.00	26.89	Peak
4	13937.00	39.98	9.74	40.80	38.69	47.61	68.20	20.59	Peak
5	14583.00	39.71	10.05	42.24	39.46	46.98	68.20	21.22	Peak
6	15314.00	38.97	10.37	43.55	40.17	45.96	68.20	22.24	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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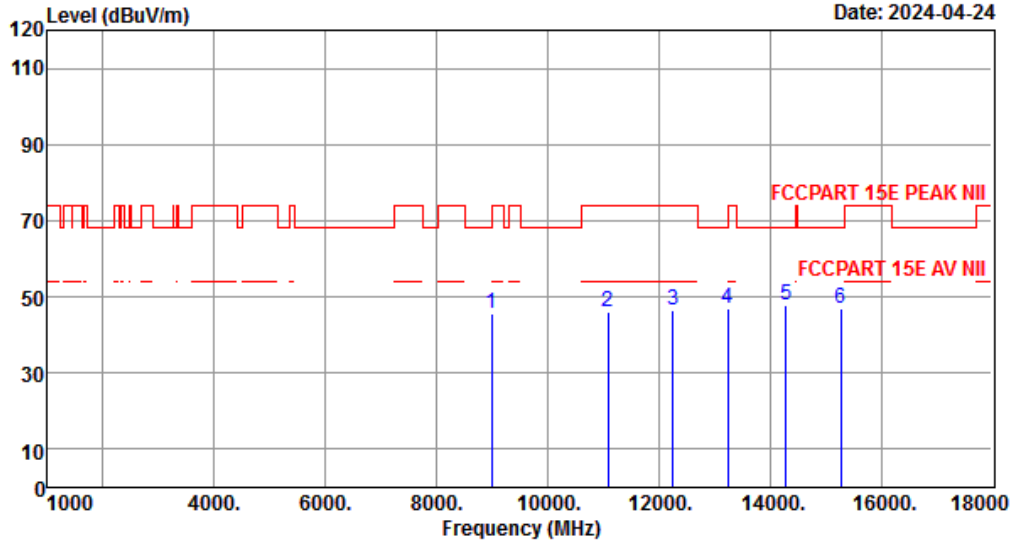
Data: 191 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 191
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8990.00	37.99	7.77	43.41	43.46	45.81	68.20	22.39	Peak
2	11081.00	38.89	8.31	42.93	41.68	45.95	74.00	28.05	Peak
3	12254.00	39.03	8.94	41.84	40.38	46.51	74.00	27.49	Peak
4	13240.00	39.77	9.38	40.80	38.60	46.95	68.20	21.25	Peak
5	14294.00	39.85	9.91	41.52	39.41	47.65	68.20	20.55	Peak
6	15280.00	39.02	10.36	43.52	41.11	46.97	68.20	21.23	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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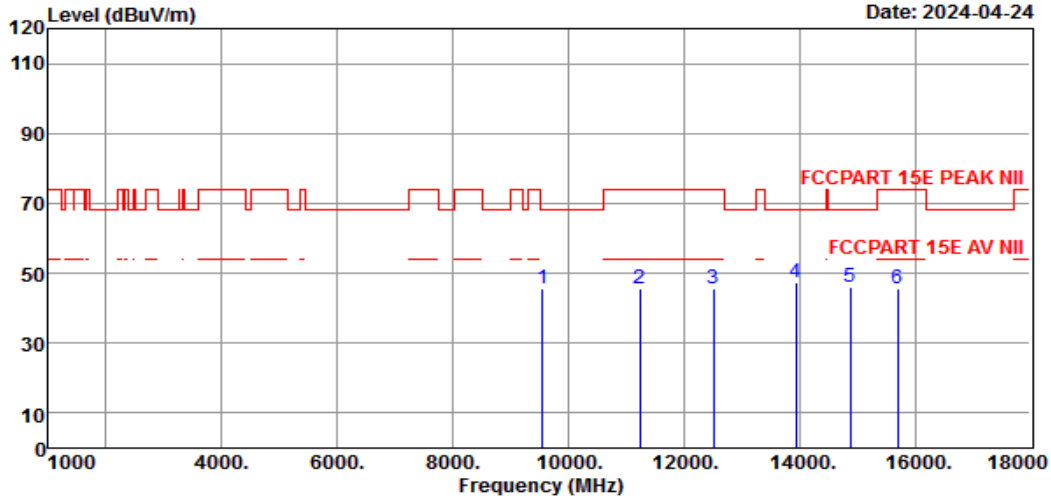
Data: 192 File: \\EMC-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (210)



Site no. : 1# 966 Chamber Data no. : 192
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9551.00	38.11	7.77	43.62	43.16	45.42	68.20	22.78	Peak
2	11234.00	38.88	8.40	42.81	41.26	45.73	74.00	28.27	Peak
3	12509.00	39.26	9.05	41.49	38.98	45.80	74.00	28.20	Peak
4	13937.00	39.98	9.74	40.80	38.38	47.30	68.20	20.90	Peak
5	14889.00	39.56	10.19	43.00	39.09	45.84	68.20	22.36	Peak
6	15705.00	38.30	10.53	43.87	40.63	45.59	74.00	28.41	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.

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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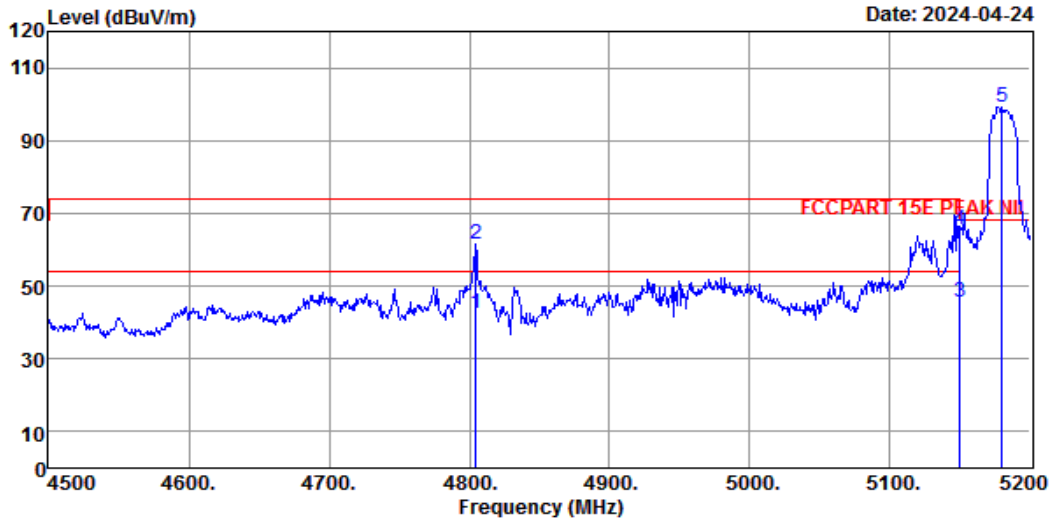
Data: 55 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 55
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4804.50	32.39	5.20	44.49	49.37	42.47	54.00	11.53	Average
2	4804.50	32.39	5.20	44.49	68.37	61.47	74.00	12.53	Peak
3	5150.00	32.97	5.52	44.27	51.24	45.46	54.00	8.54	Average
4	5150.00	32.97	5.52	44.27	71.41	65.63	68.20	2.57	Peak
5	5179.70	33.00	5.55	44.26	104.98	99.27	68.20	-31.07	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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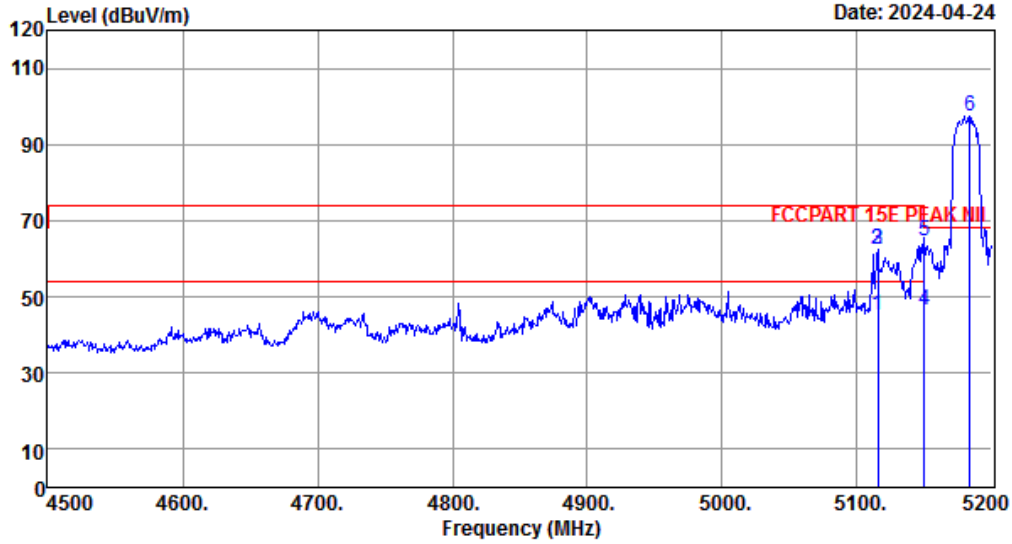
Data: 56 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 56
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5115.30	32.93	5.50	44.28	51.12	45.27	54.00	8.73	Average
2	5115.30	32.93	5.50	44.28	68.09	62.24	74.00	11.76	Peak
3	5115.30	32.93	5.50	44.28	68.09	62.24	74.00	11.76	Peak
4	5150.00	32.97	5.52	44.27	52.34	46.56	54.00	7.44	Average
5	5150.00	32.97	5.52	44.27	70.35	64.57	68.20	3.63	Peak
6	5183.20	33.00	5.55	44.26	103.24	97.53	68.20	-29.33	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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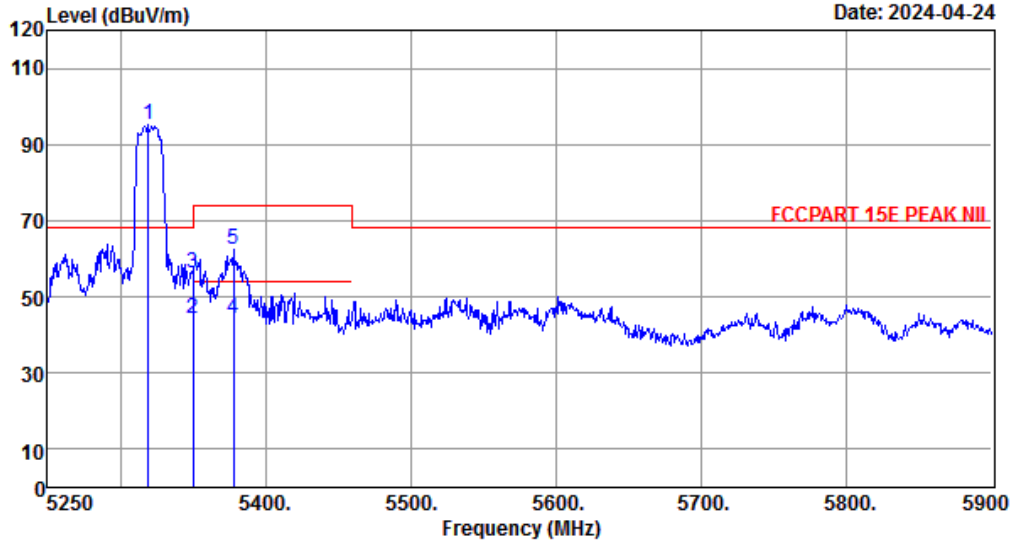
Data: 57 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 57
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5319.55	33.15	5.65	44.24	100.84	95.40	68.20	-27.20	Peak
2	5350.00	33.19	5.68	44.23	49.48	44.12	54.00	9.88	Average
3	5350.00	33.19	5.68	44.23	61.58	56.22	68.20	11.98	Peak
4	5378.05	33.22	5.70	44.22	49.59	44.29	54.00	9.71	Average
5	5378.05	33.22	5.70	44.22	67.54	62.24	74.00	11.76	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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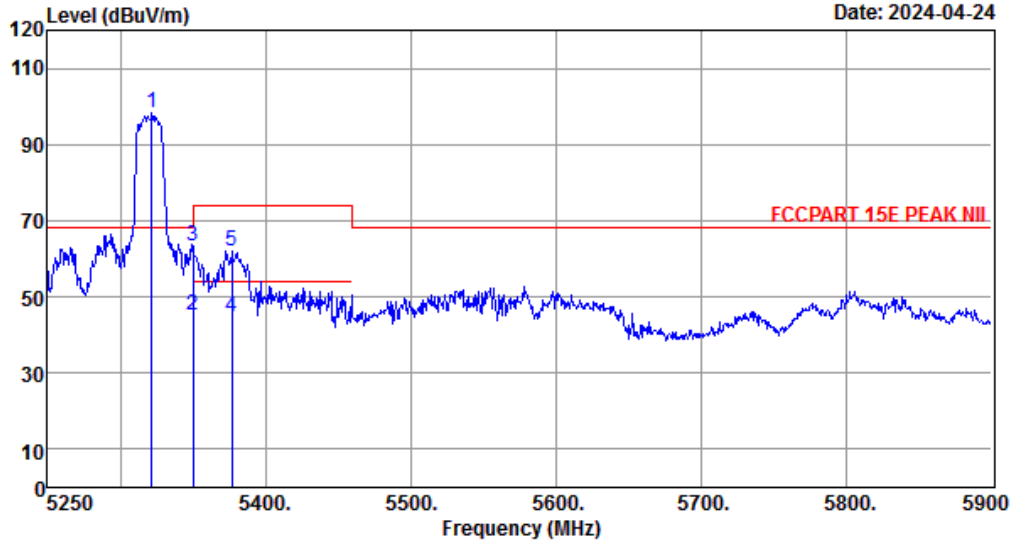
Data: 58 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 58
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5321.50	33.15	5.65	44.24	103.80	98.36	68.20	-30.16	Peak
2	5350.00	33.19	5.68	44.23	50.56	45.20	54.00	8.80	Average
3	5350.00	33.19	5.68	44.23	68.78	63.42	68.20	4.78	Peak
4	5376.75	33.21	5.69	44.23	49.97	44.64	54.00	9.36	Average
5	5376.75	33.21	5.69	44.23	67.41	62.08	74.00	11.92	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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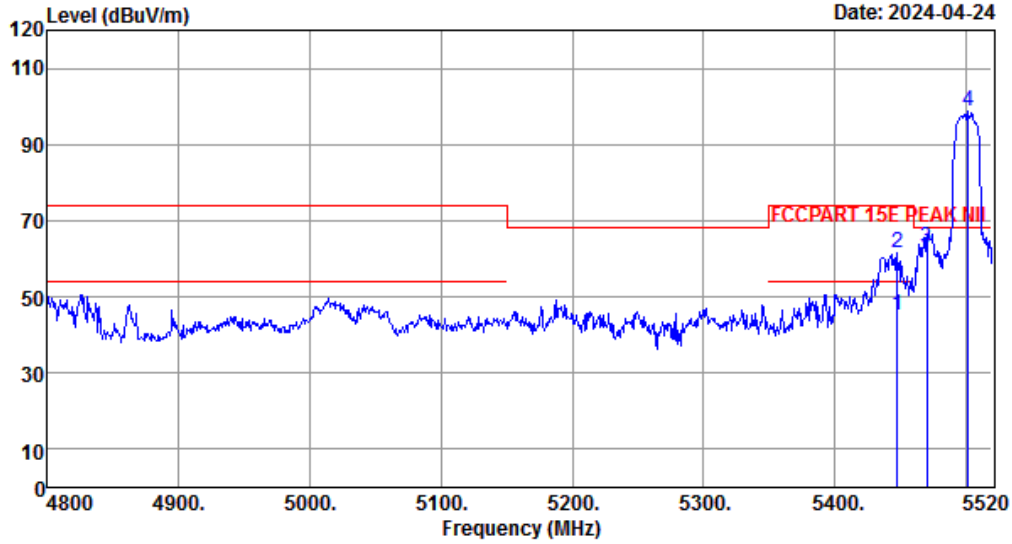
Data: 59 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 59
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5448.00	33.29	5.75	44.21	50.26	45.09	54.00	8.91	Average
2	5448.00	33.29	5.75	44.21	66.58	61.41	74.00	12.59	Peak
3	5470.00	33.32	5.77	44.21	68.09	62.97	68.20	5.23	Peak
4	5502.00	33.35	5.79	44.20	103.76	98.70	68.20	-30.50	Peak

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

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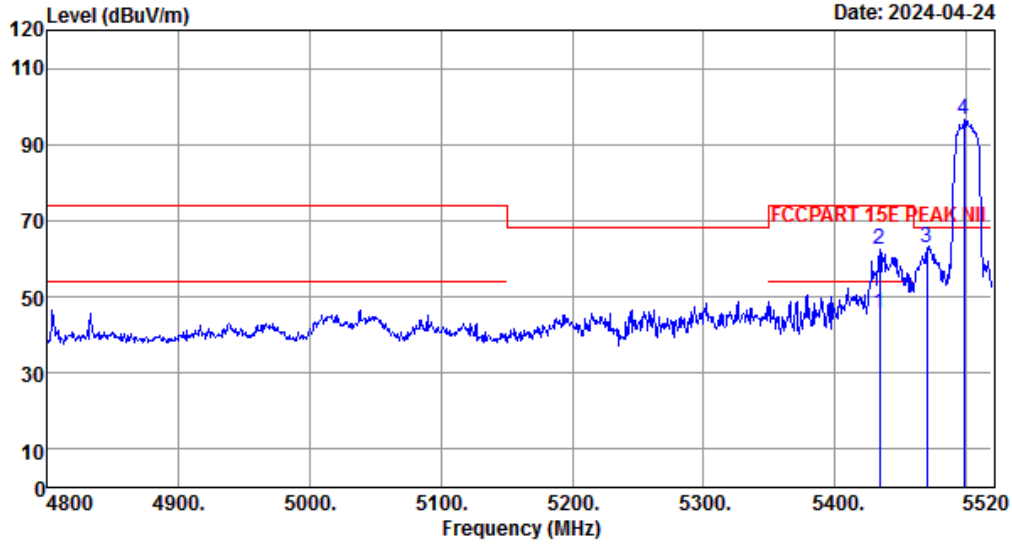
Data: 60 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 60
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5434.32	33.28	5.74	44.21	50.75	45.56	54.00	8.44	Average
2	5434.32	33.28	5.74	44.21	67.53	62.34	74.00	11.66	Peak
3	5470.00	33.32	5.77	44.21	67.81	62.69	68.20	5.51	Peak
4	5498.40	33.35	5.79	44.20	101.41	96.35	68.20	-28.15	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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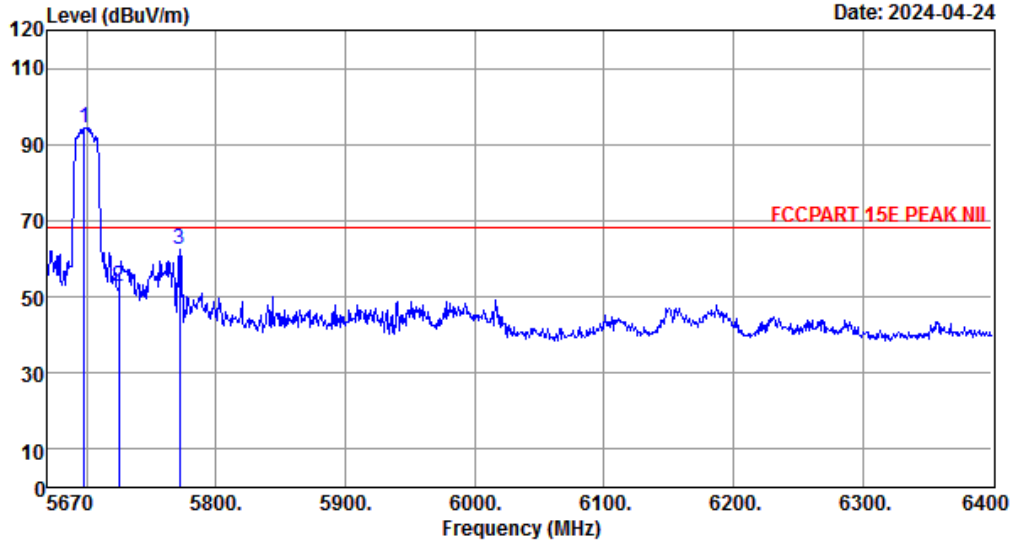
Data: 61 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 61
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5698.47	33.57	5.93	44.16	99.11	94.45	68.20	-26.25	Peak
2	5725.00	33.60	5.96	44.15	57.46	52.87	68.20	15.33	Peak
3	5772.20	33.65	5.99	44.14	66.79	62.29	68.20	5.91	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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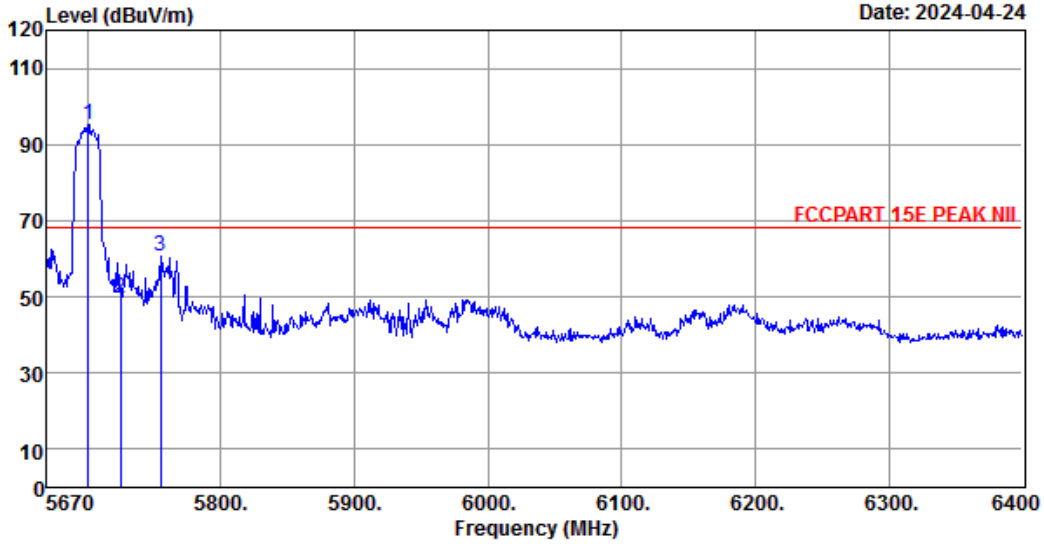
Data: 62 File: \\emc-966-1\test data\2024\RF\T\TCL Dou Mei Ti\Q85H-FCC.EM6 (222)



Site no. : 1# 966 Chamber Data no. : 62
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:21.5℃;Humi:51%;Press:101.52kPa
Engineer : ZQL
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5700.66	33.57	5.94	44.16	99.82	95.17	68.20	-26.97	Peak
2	5725.00	33.60	5.96	44.15	54.18	49.59	68.20	18.61	Peak
3	5754.68	33.63	5.98	44.15	65.25	60.71	68.20	7.49	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.

18000MHz-40000MHz

Pass

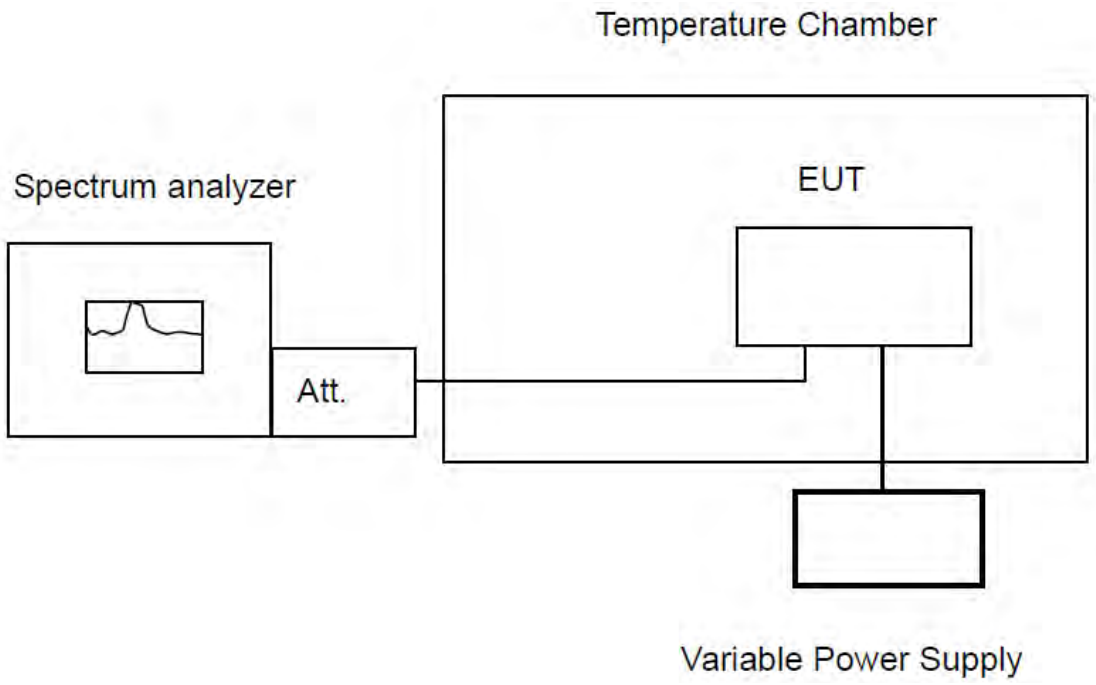
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible
limit has no need to be reported.

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℃ to +50℃ in 10℃ 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℃ to +25℃) and allow the oscillator heater and the chamber temperature to stabilize.
f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
g. Record the operating frequency.
h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5.Test Result

Refer to section 10: Appendix G

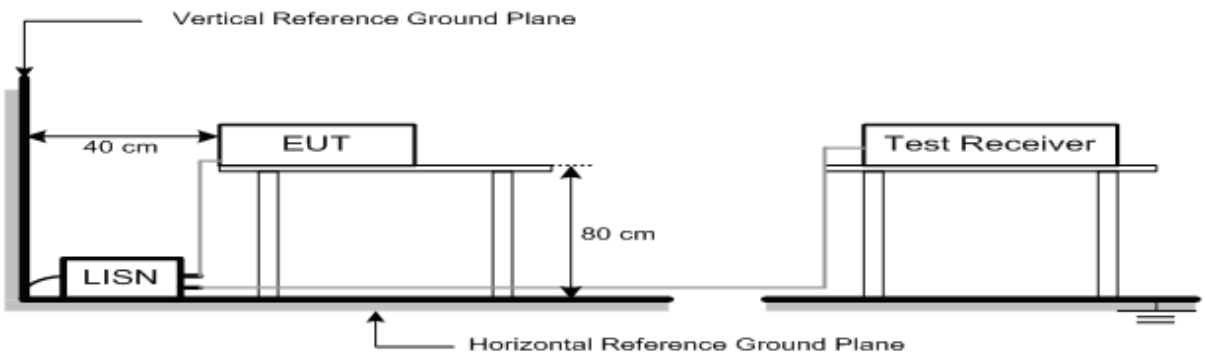
8.AC POWER LINE CONDUCTED EMISSIONS

8.1.Limit

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

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

8.2.Test Setup



8.3.Spectrum Analyzer Setting

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

8.4.Test Procedure

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

8.5.Test Result

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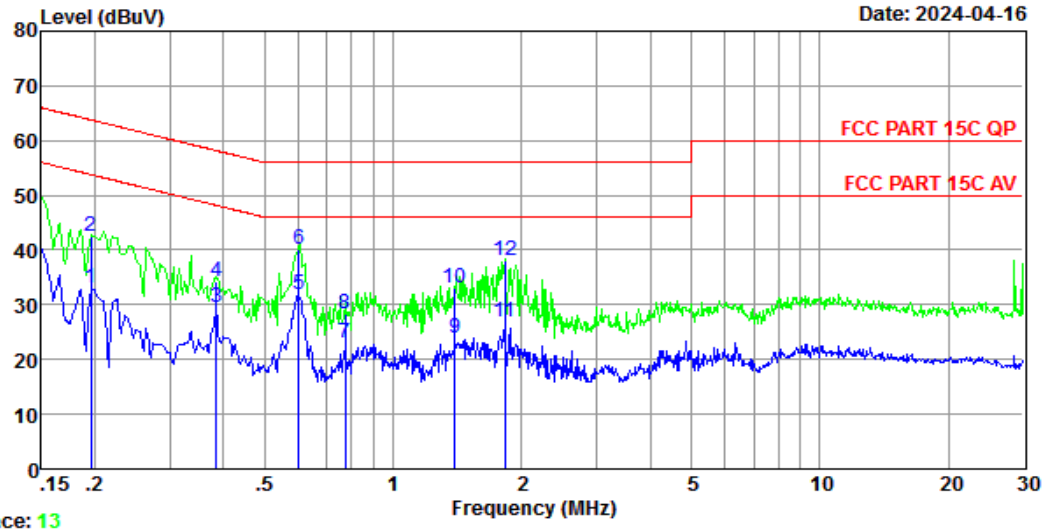
Data: 14 File: \\EMC-CE-2\Test Data\2024\RF\T\TCL Duo Mei Ti\Q85H.EM6 (76)



Trace: 13

Site no : 2#CE Shield Room Data no. : 14
Env. / Ins. : Temp:22.8℃ Humi:49% Press:101.40kPa LINE Phase : NEUTRAL
Limit : FCC PART 15C QP
Engineer : ZSX
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.195	10.14	9.93	12.88	32.95	53.80	20.85	Average
2	0.195	10.14	9.93	22.36	42.43	63.80	21.37	QP
3	0.385	10.06	9.90	9.62	29.58	48.17	18.59	Average
4	0.385	10.06	9.90	14.26	34.22	58.17	23.95	QP
5	0.601	10.00	9.97	11.77	31.74	46.00	14.26	Average
6	0.601	10.00	9.97	20.26	40.23	56.00	15.77	QP
7	0.771	10.01	10.00	3.02	23.03	46.00	22.97	Average
8	0.771	10.01	10.00	8.46	28.47	56.00	27.53	QP
9	1.396	9.99	10.03	3.94	23.96	46.00	22.04	Average
10	1.396	9.99	10.03	12.96	32.98	56.00	23.02	QP
11	1.829	10.00	10.01	6.91	26.92	46.00	19.08	Average
12	1.829	10.00	10.01	17.93	37.94	56.00	18.06	QP

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

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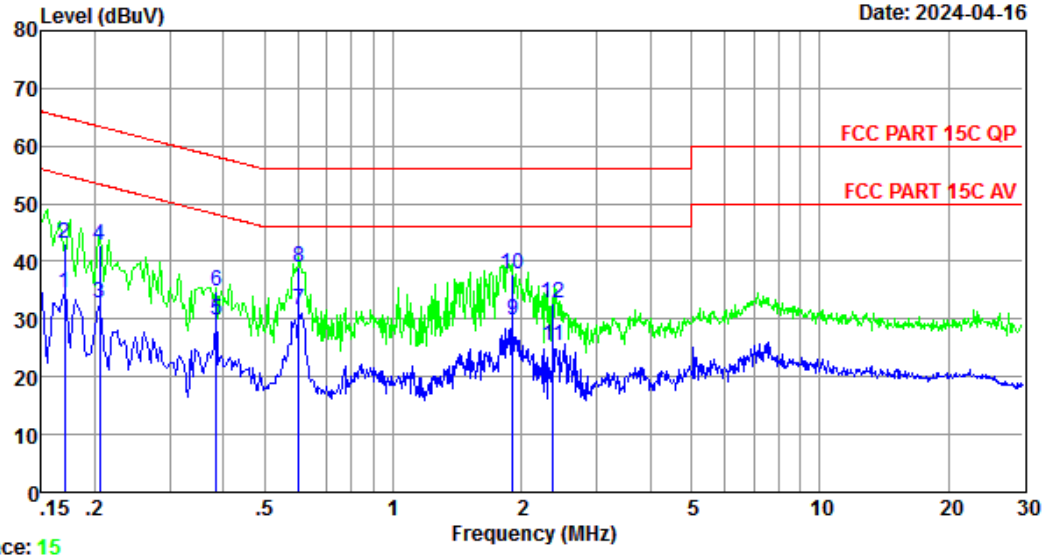
Data: 16 File: \\EMC-CE-2\Test Data\2024\RF\T\TCL Duo Mei Ti\Q85H.EM6 (76)



Trace: 15

Site no : 2#CE Shield Room Data no. : 16
Env. / Ins. : Temp:22.8℃ Humi:49% Press:101.40kPa LINE Phase : LINE
Limit : FCC PART 15C QP
Engineer : ZSX
EUT : 7.1.4 Channel Dolby Atmos Sound Bar with Wireless Subwoofer and Satellite Speakers
Power : AC 120V/60Hz
M/N : Q85H
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.170	10.12	9.89	14.62	34.63	54.94	20.31	Average
2	0.170	10.12	9.89	22.96	42.97	64.94	21.97	QP
3	0.205	10.16	9.94	12.72	32.82	53.40	20.58	Average
4	0.205	10.16	9.94	22.74	42.84	63.40	20.56	QP
5	0.385	10.10	9.90	9.90	29.90	48.17	18.27	Average
6	0.385	10.10	9.90	14.75	34.75	58.17	23.42	QP
7	0.601	10.05	9.97	11.56	31.58	46.00	14.42	Average
8	0.601	10.05	9.97	18.95	38.97	56.00	17.03	QP
9	1.908	9.98	10.00	9.70	29.68	46.00	16.32	Average
10	1.908	9.98	10.00	17.94	37.92	56.00	18.08	QP
11	2.371	9.98	10.00	5.53	25.51	46.00	20.49	Average
12	2.371	9.98	10.00	12.76	32.74	56.00	23.26	QP

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

9.ANTENNA REQUIREMENTS

9.1.Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2.Test Result

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

10.APPENDIX

Appendix A1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.120	5169.880	5190.000	---	---
11A	Ant2	5180	20.000	5169.960	5189.960	---	---
11A	Ant1	5200	19.800	5190.120	5209.920	---	---
11A	Ant2	5200	20.040	5189.960	5210.000	---	---
11A	Ant1	5240	20.280	5229.760	5250.040	---	---
11A	Ant2	5240	20.080	5230.000	5250.080	---	---
11A	Ant1	5260	19.960	5250.040	5270.000	---	---
11A	Ant2	5260	20.240	5249.920	5270.160	---	---
11A	Ant1	5300	19.920	5289.960	5309.880	---	---
11A	Ant2	5300	20.000	5289.880	5309.880	---	---
11A	Ant1	5320	19.800	5310.160	5329.960	---	---
11A	Ant2	5320	20.080	5309.960	5330.040	---	---
11A	Ant1	5500	20.120	5489.880	5510.000	---	---
11A	Ant2	5500	20.040	5490.040	5510.080	---	---
11A	Ant1	5580	20.000	5570.000	5590.000	---	---
11A	Ant2	5580	20.120	5569.920	5590.040	---	---
11A	Ant1	5700	20.080	5689.920	5710.000	---	---
11A	Ant2	5700	20.080	5690.000	5710.080	---	---
11A	Ant1	5745	19.840	5735.000	5754.840	---	---
11A	Ant2	5745	20.080	5734.800	5754.880	---	---
11A	Ant1	5785	20.120	5774.880	5795.000	---	---
11A	Ant2	5785	20.000	5774.880	5794.880	---	---
11A	Ant1	5825	19.880	5815.040	5834.920	---	---
11A	Ant2	5825	20.080	5815.000	5835.080	---	---
11N20MIMO	Ant1	5180	20.200	5169.920	5190.120	---	---
11N20MIMO	Ant2	5180	20.280	5169.840	5190.120	---	---
11N20MIMO	Ant1	5200	20.280	5189.840	5210.120	---	---
11N20MIMO	Ant2	5200	20.520	5189.800	5210.320	---	---
11N20MIMO	Ant1	5240	20.360	5229.880	5250.240	---	---
11N20MIMO	Ant2	5240	20.400	5229.840	5250.240	---	---
11N20MIMO	Ant1	5260	20.480	5249.680	5270.160	---	---
11N20MIMO	Ant2	5260	20.480	5249.760	5270.240	---	---
11N20MIMO	Ant1	5300	20.320	5289.760	5310.080	---	---
11N20MIMO	Ant2	5300	20.400	5289.760	5310.160	---	---
11N20MIMO	Ant1	5320	20.400	5309.720	5330.120	---	---
11N20MIMO	Ant2	5320	20.320	5309.920	5330.240	---	---
11N20MIMO	Ant1	5500	20.160	5489.920	5510.080	---	---
11N20MIMO	Ant2	5500	20.160	5489.960	5510.120	---	---
11N20MIMO	Ant1	5580	20.360	5569.840	5590.200	---	---
11N20MIMO	Ant2	5580	20.440	5569.880	5590.320	---	---
11N20MIMO	Ant1	5700	20.360	5689.880	5710.240	---	---
11N20MIMO	Ant2	5700	20.360	5689.840	5710.200	---	---
11N20MIMO	Ant1	5745	20.440	5734.800	5755.240	---	---
11N20MIMO	Ant2	5745	20.320	5734.760	5755.080	---	---
11N20MIMO	Ant1	5785	20.360	5774.720	5795.080	---	---
11N20MIMO	Ant2	5785	20.400	5774.720	5795.120	---	---
11N20MIMO	Ant1	5825	20.400	5814.800	5835.200	---	---
11N20MIMO	Ant2	5825	20.360	5814.760	5835.120	---	---
11N40MIMO	Ant1	5190	40.640	5169.520	5210.160	---	---
11N40MIMO	Ant2	5190	40.800	5169.520	5210.320	---	---

11N40MIMO	Ant1	5230	40.560	5209.680	5250.240	---	---
11N40MIMO	Ant2	5230	40.400	5209.680	5250.080	---	---
11N40MIMO	Ant1	5270	40.800	5249.440	5290.240	---	---
11N40MIMO	Ant2	5270	40.640	5249.760	5290.400	---	---
11N40MIMO	Ant1	5310	40.800	5289.440	5330.240	---	---
11N40MIMO	Ant2	5310	40.880	5289.600	5330.480	---	---
11N40MIMO	Ant1	5510	40.240	5489.920	5530.160	---	---
11N40MIMO	Ant2	5510	40.400	5489.920	5530.320	---	---
11N40MIMO	Ant1	5590	40.400	5569.920	5610.320	---	---
11N40MIMO	Ant2	5590	40.480	5570.000	5610.480	---	---
11N40MIMO	Ant1	5670	41.120	5649.760	5690.880	---	---
11N40MIMO	Ant2	5670	40.160	5649.840	5690.000	---	---
11N40MIMO	Ant1	5755	40.720	5734.600	5775.320	---	---
11N40MIMO	Ant2	5755	40.320	5734.840	5775.160	---	---
11N40MIMO	Ant1	5795	40.400	5774.760	5815.160	---	---
11N40MIMO	Ant2	5795	41.440	5774.040	5815.480	---	---
11AC20MIMO	Ant1	5180	20.160	5169.840	5190.000	---	---
11AC20MIMO	Ant2	5180	20.440	5169.720	5190.160	---	---
11AC20MIMO	Ant1	5200	20.280	5189.760	5210.040	---	---
11AC20MIMO	Ant2	5200	20.320	5189.840	5210.160	---	---
11AC20MIMO	Ant1	5240	20.400	5229.760	5250.160	---	---
11AC20MIMO	Ant2	5240	20.440	5229.840	5250.280	---	---
11AC20MIMO	Ant1	5260	20.480	5249.760	5270.240	---	---
11AC20MIMO	Ant2	5260	20.560	5249.800	5270.360	---	---
11AC20MIMO	Ant1	5300	20.520	5289.760	5310.280	---	---
11AC20MIMO	Ant2	5300	20.200	5289.840	5310.040	---	---
11AC20MIMO	Ant1	5320	20.480	5309.800	5330.280	---	---
11AC20MIMO	Ant2	5320	20.560	5309.720	5330.280	---	---
11AC20MIMO	Ant1	5500	20.400	5489.720	5510.120	---	---
11AC20MIMO	Ant2	5500	20.320	5489.840	5510.160	---	---
11AC20MIMO	Ant1	5580	20.400	5569.840	5590.240	---	---
11AC20MIMO	Ant2	5580	20.520	5569.800	5590.320	---	---
11AC20MIMO	Ant1	5700	20.360	5689.880	5710.240	---	---
11AC20MIMO	Ant2	5700	20.320	5689.880	5710.200	---	---
11AC20MIMO	Ant1	5745	20.480	5734.720	5755.200	---	---
11AC20MIMO	Ant2	5745	20.280	5734.880	5755.160	---	---
11AC20MIMO	Ant1	5785	20.480	5774.760	5795.240	---	---
11AC20MIMO	Ant2	5785	20.440	5774.760	5795.200	---	---
11AC20MIMO	Ant1	5825	20.400	5814.840	5835.240	---	---
11AC20MIMO	Ant2	5825	20.440	5814.760	5835.200	---	---
11AC40MIMO	Ant1	5190	40.720	5169.600	5210.320	---	---
11AC40MIMO	Ant2	5190	40.560	5169.760	5210.320	---	---
11AC40MIMO	Ant1	5230	40.960	5209.360	5250.320	---	---
11AC40MIMO	Ant2	5230	40.320	5209.600	5249.920	---	---
11AC40MIMO	Ant1	5270	40.560	5249.680	5290.240	---	---
11AC40MIMO	Ant2	5270	40.560	5249.760	5290.320	---	---
11AC40MIMO	Ant1	5310	40.720	5289.680	5330.400	---	---
11AC40MIMO	Ant2	5310	40.560	5289.760	5330.320	---	---
11AC40MIMO	Ant1	5510	40.560	5489.760	5530.320	---	---
11AC40MIMO	Ant2	5510	40.240	5489.920	5530.160	---	---
11AC40MIMO	Ant1	5590	40.640	5569.600	5610.240	---	---
11AC40MIMO	Ant2	5590	40.480	5569.760	5610.240	---	---
11AC40MIMO	Ant1	5670	40.400	5649.680	5690.080	---	---
11AC40MIMO	Ant2	5670	40.080	5650.000	5690.080	---	---
11AC40MIMO	Ant1	5755	40.880	5734.600	5775.480	---	---
11AC40MIMO	Ant2	5755	39.840	5735.160	5775.000	---	---
11AC40MIMO	Ant1	5795	40.320	5774.920	5815.240	---	---

11AC40MIMO	Ant2	5795	40.560	5774.600	5815.160	---	---
11AC80MIMO	Ant1	5210	81.120	5169.360	5250.480	---	---
11AC80MIMO	Ant2	5210	81.280	5169.520	5250.800	---	---
11AC80MIMO	Ant1	5290	81.120	5249.680	5330.800	---	---
11AC80MIMO	Ant2	5290	81.760	5249.360	5331.120	---	---
11AC80MIMO	Ant1	5530	81.440	5489.360	5570.800	---	---
11AC80MIMO	Ant2	5530	81.280	5489.520	5570.800	---	---
11AC80MIMO	Ant1	5610	81.920	5569.040	5650.960	---	---
11AC80MIMO	Ant2	5610	81.280	5569.520	5650.800	---	---
11AC80MIMO	Ant1	5775	81.440	5734.360	5815.800	---	---
11AC80MIMO	Ant2	5775	81.280	5734.520	5815.800	---	---

Test Graphs

11A-Ant1-5180

11A-Ant2-5180

11A-Ant1-5200

11A-Ant2-5200

11A-Ant1-5240

11A-Ant2-5240

11A-Ant1-5260

11A-Ant2-5260

11A-Ant1-5300

11A-Ant2-5300

11A-Ant1-5320

11A-Ant2-5320

11A-Ant1-5500

11A-Ant2-5500

11A-Ant1-5580

11A-Ant2-5580

11A-Ant1-5700

11A-Ant2-5700

11A-Ant1-5745

11A-Ant2-5745

11A-Ant1-5785

11A-Ant2-5785

11A-Ant1-5825

11A-Ant2-5825

11N20MIMO-Ant1-5180

11N20MIMO-Ant2-5180

11N20MIMO-Ant1-5200

11N20MIMO-Ant2-5200

11N20MIMO-Ant1-5240

11N20MIMO-Ant2-5240

11N20MIMO-Ant1-5260

11N20MIMO-Ant2-5260

11N20MIMO-Ant1-5300

11N20MIMO-Ant2-5300

11N20MIMO-Ant1-5320

11N20MIMO-Ant2-5320

11N20MIMO-Ant1-5500

11N20MIMO-Ant2-5500

11N20MIMO-Ant1-5580

11N20MIMO-Ant2-5580

11N20MIMO-Ant1-5700

11N20MIMO-Ant2-5700

11N20MIMO-Ant1-5745

11N20MIMO-Ant2-5745

11N20MIMO-Ant1-5785

11N20MIMO-Ant2-5785

11N20MIMO-Ant1-5825

11N20MIMO-Ant2-5825

11N40MIMO-Ant1-5190

11N40MIMO-Ant2-5190

11N40MIMO-Ant1-5230

11N40MIMO-Ant2-5230

11N40MIMO-Ant1-5270

11N40MIMO-Ant2-5270