

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

TCL Entertainment Solutions Limited

5.1 Channel Sound Bar with Dolby Audio,
DTS Virtual:X, Wireless Subwoofer and Wired Satellite Speakers

Model Number: P735W

Additional Model: Alto 7e, Alto 7e+, Alto 7*, P735W***
(* represents any numerical number from "0-9", or any alphabetical character from "a-z", or special character as "+ " and space " ")

FCC ID: 2ARUDP735W

Applicant :	TCL Entertainment Solutions Limited
Address:	7/F, building 22E, 22 science park east avenue Hong Kong science park, SHATIN, N.T. ,Hong Kong, China
Prepared By:	EST Technology Co., Ltd. Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel: 86-769-83081888-808

Report Number:	ESTE-R2204197
Date of Test:	Mar. 21~Apr. 18, 2022
Date of Report:	Apr. 20, 2022

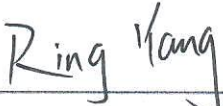
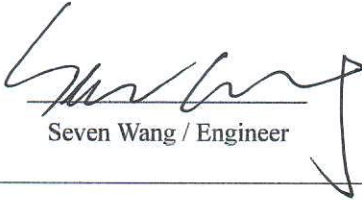

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EST Technology Co., Ltd.

Applicant:	TCL Entertainment Solutions Limited		
Address:	7/F, building 22E, 22 science park east avenue Hong Kong science park, SHATIN, N.T. ,Hong Kong, China		
Manufacturer:	TCL Entertainment Solutions Limited		
Address:	7/F, building 22E, 22 science park east avenue Hong Kong science park, SHATIN, N.T. ,Hong Kong, China		
E.U.T:	5.1 Channel Sound Bar with Dolby Audio, DTS Virtual:X, Wireless Subwoofer and Wired Satellite Speakers		
Model Number:	P735W		
Additional Model:	Alto 7e, Alto 7e+, Alto 7*, P735W***(* represents any numerical number from "0-9", or any alphabetical character from "a-z", or special character as "+ " and space " ") Note: They are identical except model name and export areas.		
Power Supply:	AC 100-240V, 50/60Hz, 38W		
Trade Name:	TCL	Serial No.:	-----
Date of Receipt:	Mar. 21, 2022	Date of Test:	Mar. 21~Apr. 18, 2022
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:	<p>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.</p> <p style="text-align: center;">This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
	Prepared by:	Reviewed by:	Date: Apr. 20, 2022
	 _____ 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	:	2ARUDP735W
Product Name	:	5.1 Channel Sound Bar with Dolby Audio, DTS Virtual:X, Wireless Subwoofer and Wired Satellite Speakers
Model Number	:	P735W
Software Version	:	V21
Hardware Version	:	V04
Operation frequency	:	5727 MHz~5848MHz
Number of channel	:	62
Modulation	:	FSK
Channels Spacing	:	2MHz
Transmit Power	:	6.12dBm
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	-	1.57

Note: This information is provided by the applicant.

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	TCL Entertainment Solutions Limited
Note: 1. The customer declared the loss value of the RF Cable, and the test results of this report only apply to the sample as received. 2. This information is provided by the applicant.	

2. SUMMARY OF TEST

2.1. Summary of test result

NO.	Description of Test Item	FCC Standard Section	Results
1	6dB 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:(1) "N/A" denotes test is not applicable in this test report.

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA
Registration No.: L5288
This Certificate is valid until: November 12, 2023

Certificated by FCC, USA
Designation Number: CN1215
This Certificate is valid until: January 31, 2024

Certificated by A2LA, USA
Registration No.: 4366.01
This Certificate is valid until: January 31, 2024

Certificated by Industry Canada
CAB identifier No.: CN0035
This Certificate is valid until: January 31, 2024

Certificated by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Certificate is valid until: Apr. 19, 2023

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

Certificated 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.

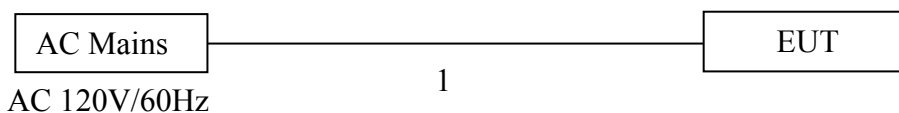
2.4. Assistant equipment used for test

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.



(EUT: 5.1 Channel Sound Bar with Dolby Audio, DTS Virtual:X, Wireless Subwoofer and Wired Satellite Speakers)

2.6. Test Mode

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

Test Item	Test Mode	Channel	Modulation
6dB Bandwidth	TX	High/medium/low	FSK
99% Occupied Bandwidth	TX	High/medium/low	FSK
Maximum Conducted Output Power	TX	High/medium/low	FSK
Peak Power Spectral Density	TX	High/medium/low	FSK
Unwanted Emissions and Band Edge(Above 1GHz)	TX/RX	High/medium/low	FSK
Unwanted Emissions Below 1GHz	TX/RX	High/medium/low	FSK
Frequency Stability	TX	High/medium/low	FSK
AC Power Line Conducted Emissions	TX/RX	-	FSK

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

Channel	RF Channel (MHz)	Channel	RF Channel (MHz)
1	5727	32	5789
2	5729	33	5791
3	5731	34	5793
4	5733	35	5795
5	5735	36	5797
6	5737	37	5799
7	5739	38	5801
8	5741	39	5803
9	5743	40	5805
10	5745	41	5807
11	5747	42	5809
12	5749	43	5811
13	5751	44	5813
14	5753	45	5815
15	5755	46	5817
16	5757	47	5819
17	5759	48	5821
18	5761	49	5823
19	5763	50	5825
20	5765	51	5827
21	5767	52	5829
22	5769	53	5831
23	5771	54	5833
24	5773	55	5835
25	5775	56	5837
26	5777	57	5839
27	5780	58	5841
28	5781	59	5843
29	5783	60	5845
30	5785	61	5847
31	5787	62	5848

2.8. Power Setting of Test Software

Software Name	EMI_Tool_V15_2021_0308		
5727 MHz~5848MHz			
Frequency(MHz)	5727	5780	5848
Setting	5	5	5

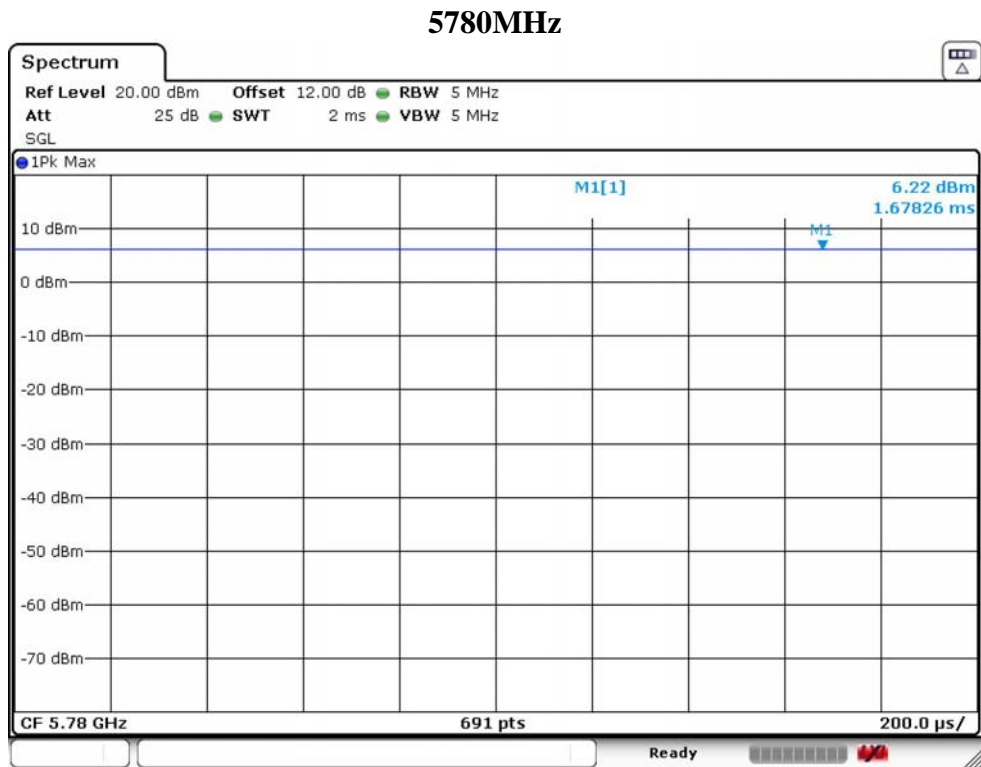
Note: This information is provided by the applicant.

2.9. Duty Cycle of Test Signal

Temperature	24.8°C	Relative Humidity	53%	Test Voltage	AC 120V/60Hz		
Frequency (MHz)		On time (ms)	Total Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T (Hz)	VBW Setting (Hz)
5780		1.67826	1.67826	100.00	0.00	10	10

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 13,21	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 13,21	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 13,21	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 13,21	1 Year
Active Loop Antenna	SCHWARZECK	FMZB 1519B	EST-E054	LISAI	June 13,21	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 13,21	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 13,21	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 emissions test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZECK	BBHA 9120 D	EST-E031	LISAI	June 13,21	1 Year
Signal Amplifier	SCHWARZECK	BBV9718	EST-E032	LISAI	June 13,21	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	July 19,21	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 8997	Rohde &Schwarz	/	/	/	/	/
Open Switch and Control Unit	Rohde &Schwarz	OSP-B157WB	EST-E036	LISAI	June 13,21	1 Year
Signal and Spectrum Analyzer	Rohde &Schwarz	FSV	EST-E037	LISAI	June 13,21	1 Year
Signal Generator	Rohde &Schwarz	SMB100A	EST-E038	LISAI	June 13,21	1 Year
Vector Signal Generator	Rohde &Schwarz	SMBV100A	EST-E039	LISAI	June 13,21	1 Year
Test Software	Rohde &Schwarz	WMS32	V10.50.00	N/A	N/A	N/A
Temperature controller	Terchy	MHQ	EST-E101	LISAI	June 13,21	1 Year

3. 6dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1. Limit

Frequency (MHz)	Test Item	Limit
5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth \geq 500KHz

3.2. Test Setup



3.3. Spectrum Analyzer Setting

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	10MHz
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 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

6dB Bandwidth&99% Occupied Bandwidth				
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB BW Min Limit (MHz)	Result
5727	1.679	3.386	0.5	PASS
5780	1.708	3.618	0.5	PASS
5848	1.825	3.647	0.5	PASS

3.6. Test Result

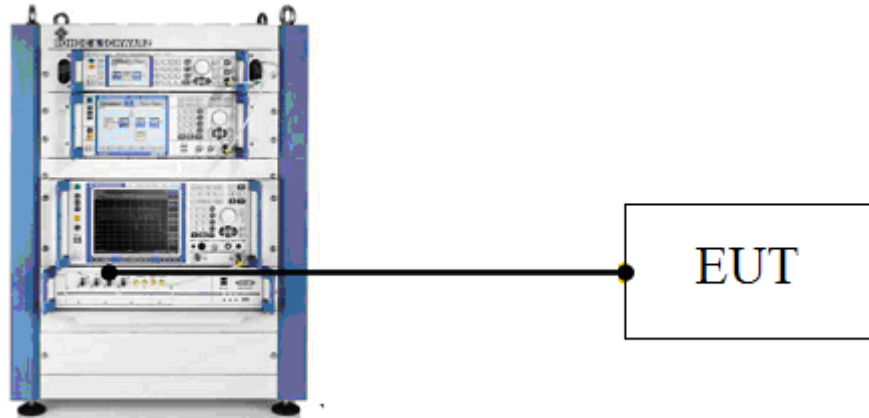


4. MAXIMUM CONDUCTED OUTPUT POWER

4.1. Limit

Frequency (MHz)	EUT Type	Limit
5725-5850	All Device	1W(30dBm)

4.2. Test Setup



4.3. Test Procedure

- a. Connect EUT antenna terminal to the OSP-B157WB with RF cable.
- b. Set the EUT transmit continuously with maximum output power.
- c. Through the test software in TS 8897 to control a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
- d. Repeat above procedures until all modes and channels were measured.
- e. Record the results in the test report.

4.4. Test Result

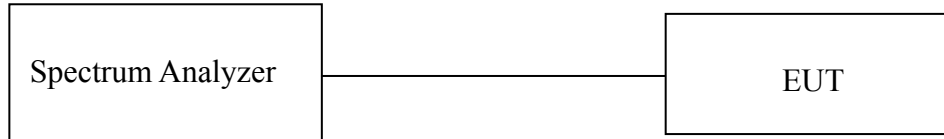
Temperature	25°C	Relative Humidity		55%	Test Voltage		AC 120V/60Hz
Frequency (MHz)	Conducted Output Power (dBm)	Total Conducted Output Power (W)	Total Conducted Output Power (dBm)	Limit (dBm)	Limit (W)	Result	
5727	5.73	0.00374	5.73	30.00	1.0000	PASS	
5780	6.12	0.00409	6.12	30.00	1.0000	PASS	
5848	6.10	0.00407	6.10	30.00	1.0000	PASS	

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Frequency (MHz)	EUT Type	Limit
5725-5850	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

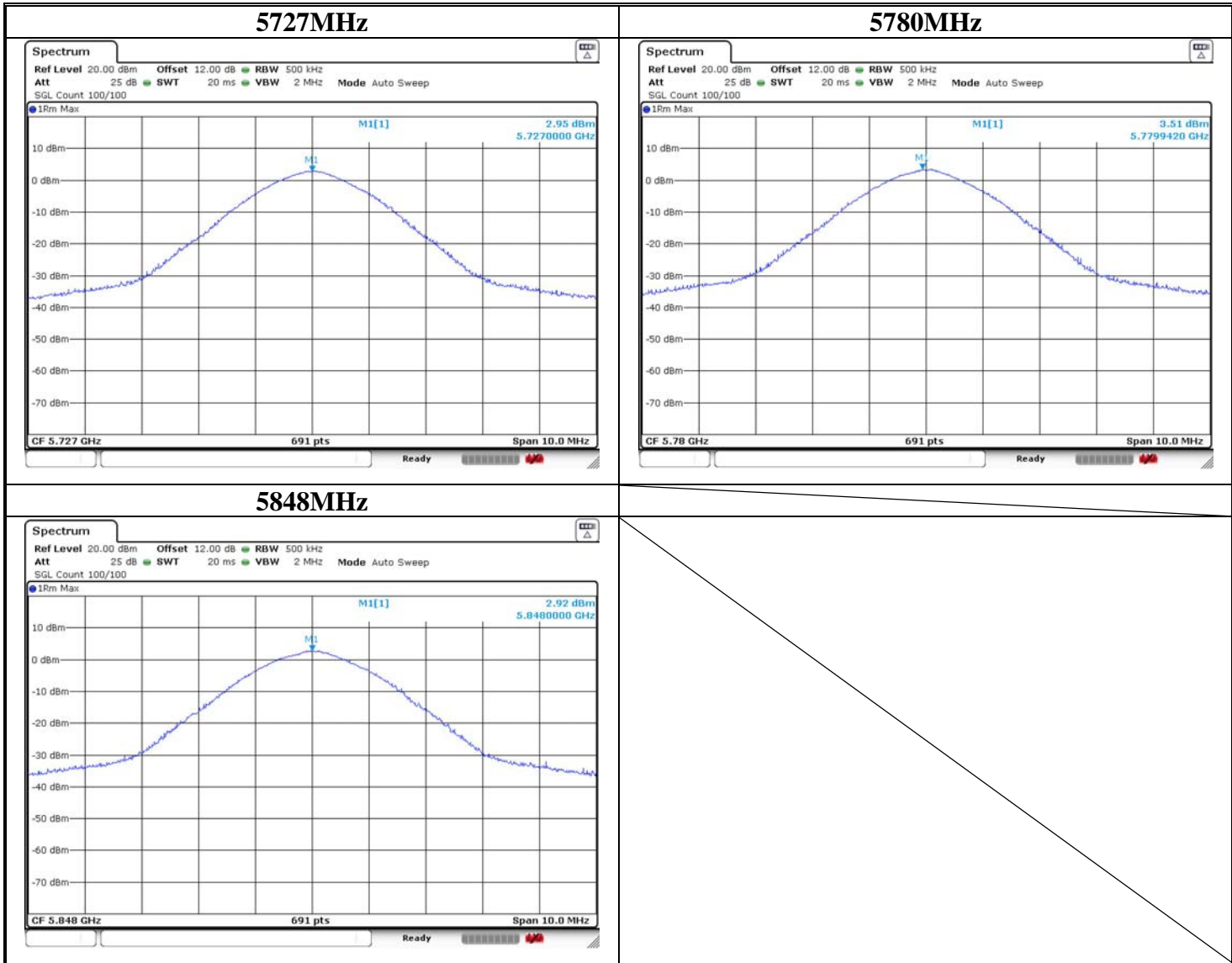
Spectrum Parameters	Setting
RBW	500KHz
VBW	2MHz
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN}/\text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- 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 signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- f. Repeat above procedures until all modes and channels were measured.
- g. Record the results in the test report.

5.5. Test Result

Temperature	24.8°C	Relative Humidity	53%	Test Voltage	AC 120V/60Hz
Fre (MHz)	Power Density (dBm/MHz)	Duty Factor (dB)	Total Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
5727	2.95	0.00	2.95	30.00	PASS
5780	3.51	0.00	3.51	30.00	PASS
5848	2.92	0.00	2.92	30.00	PASS



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:

- (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

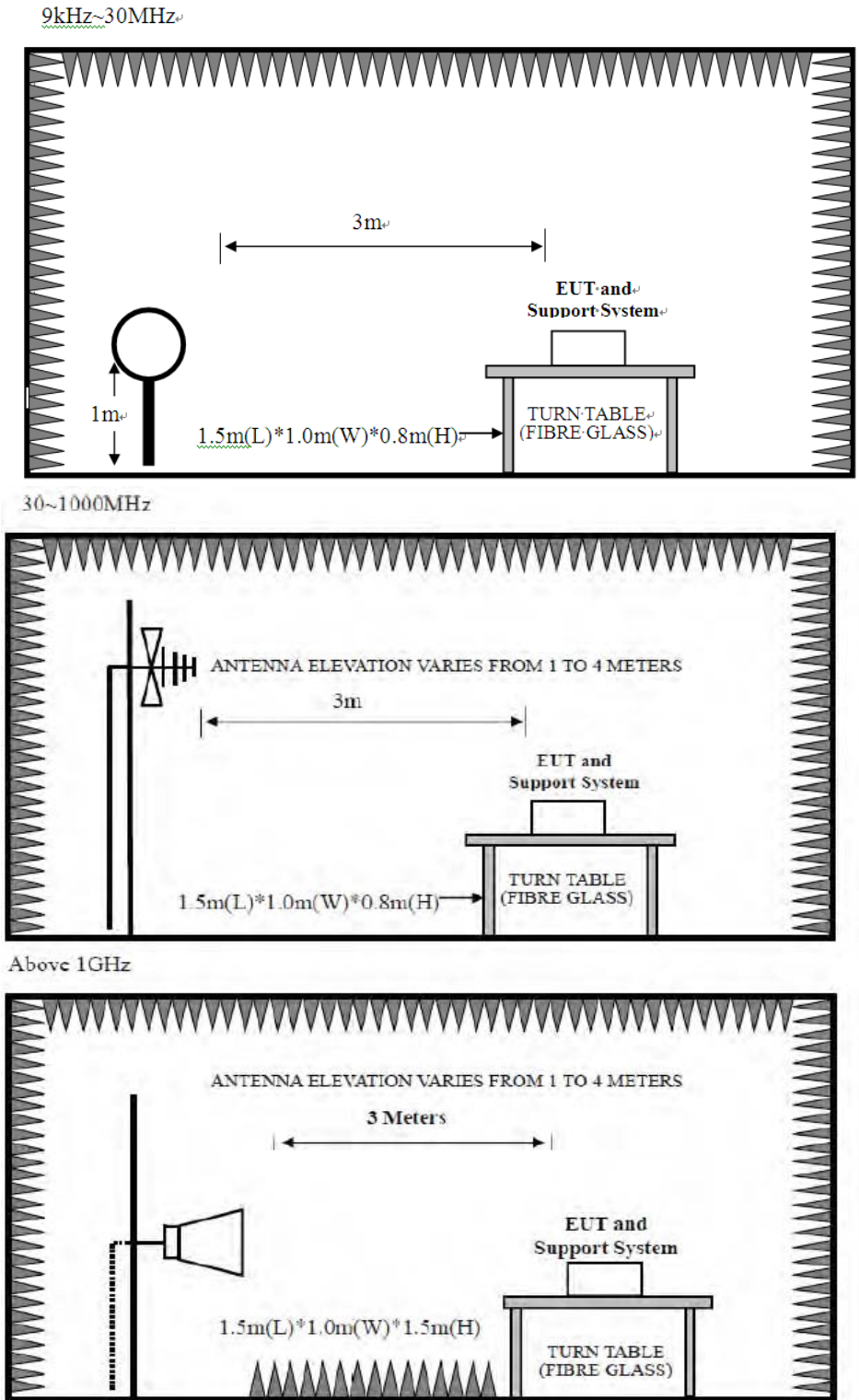
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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. $\text{dB}\mu\text{V}/\text{m} = 20\text{Log}(\mu\text{V}/\text{m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength

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

6.2. Test Setup



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

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

6.4. Test Procedure

- 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.

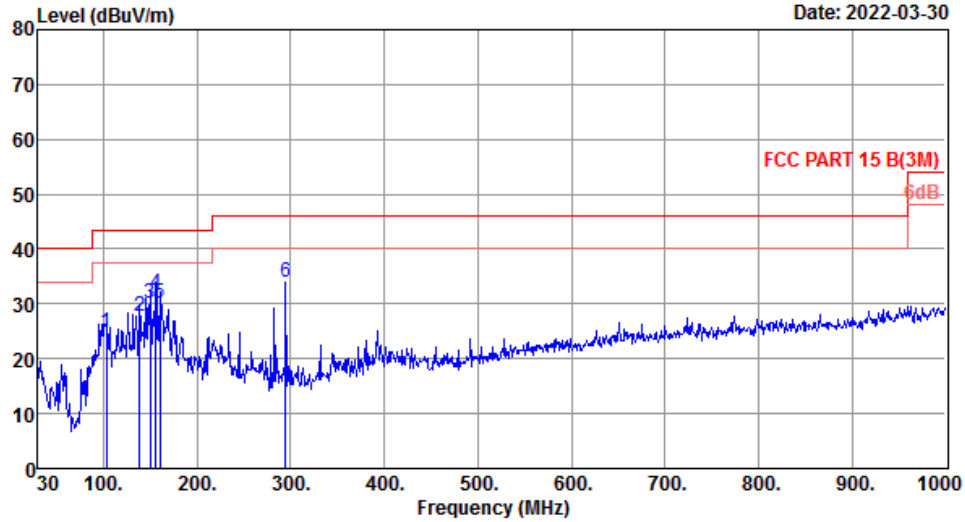
6.5. Test Result

Radiated Emissions Below 1GHz

EST Technology

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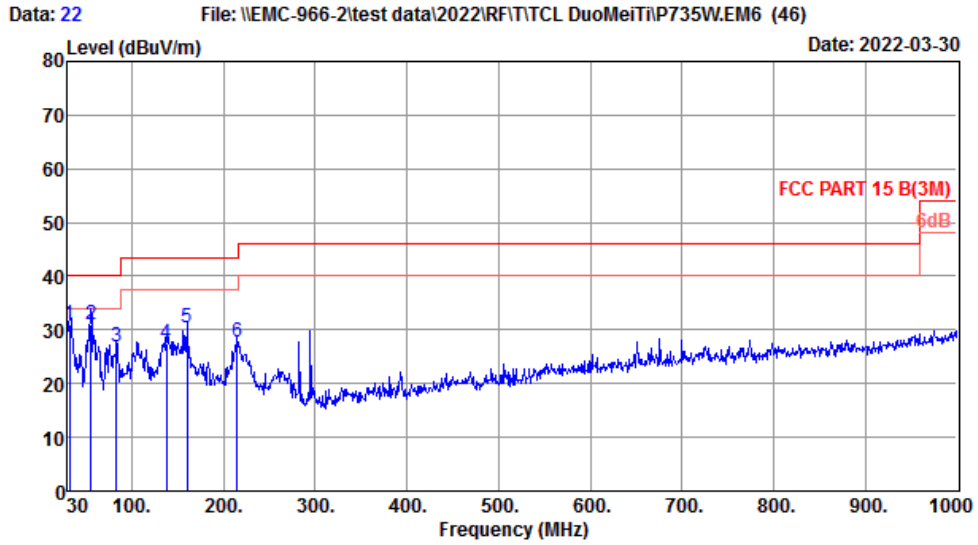
Data: 21 File: \\EMC-966-2\test data\2022\RF\ITCL DuoMeiTi\P735W.EM6 (46) Date: 2022-03-30



Site no. : 2# 966 chamber Data no. : 21
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:21.5°C;Humi:50.2%;Press:101.52kPa
 Engineer : Blank
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 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	102.750	10.20	0.81	13.65	24.66	43.50	18.84	QP
2	138.640	12.60	0.92	14.22	27.74	43.50	15.76	QP
3	150.280	11.70	0.99	17.35	30.04	43.50	13.46	QP
4	156.100	11.48	1.04	19.48	32.00	43.50	11.50	QP
5	159.980	11.40	1.04	17.73	30.17	43.50	13.33	QP
6	294.810	13.70	1.62	18.75	34.07	46.00	11.93	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.



Site no. : 2# 966 chamber Data no. : 22
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B(3M)
 Env. / Ins. : Temp:21.5°C;Humi:50.2%;Press:101.52kPa
 Engineer : Blank
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual X, Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 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	31.940	16.90	0.22	13.74	30.86	40.00	9.14	QP
2	55.220	6.35	0.33	24.19	30.87	40.00	9.13	QP
3	83.350	8.02	0.65	18.11	26.78	40.00	13.22	QP
4	137.670	12.40	0.92	13.99	27.31	43.50	16.19	QP
5	159.980	11.40	1.04	18.09	30.53	43.50	12.97	QP
6	215.270	9.50	1.22	16.95	27.67	43.50	15.83	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:

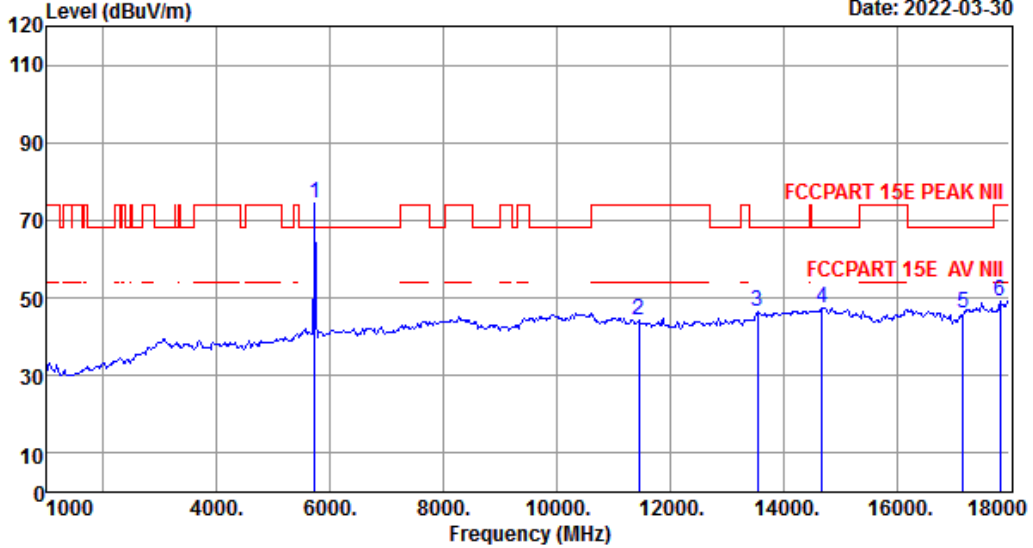
1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

Radiated Emissions Above 1G

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Data: 41 File: \\EMC-966-1\test data\2022\RF\TTC\ DouMei\TP735W.EM6 (78) Date: 2022-03-30

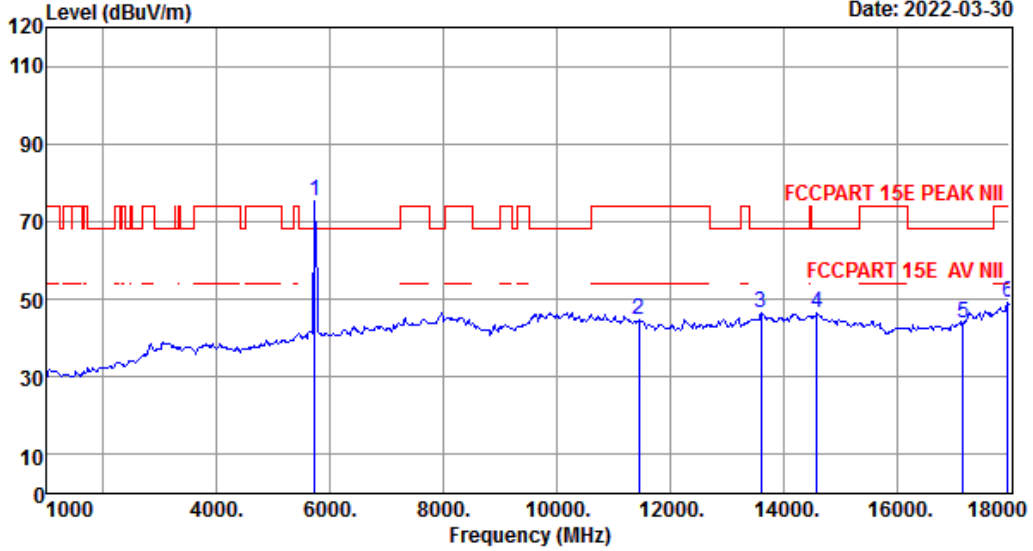


Site no. : 1# 966 Chamber Data no. : 41
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.8°;Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X ,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX 5727MHz

	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	5727.000	32.86	3.98	34.41	71.94	74.37	68.20	-6.17	Peak
2	11454.000	39.90	6.15	34.64	32.70	44.11	74.00	29.89	Peak
3	13546.000	40.32	6.35	34.35	34.07	46.39	68.20	21.81	Peak
4	14685.000	40.96	6.87	34.50	34.09	47.42	68.20	20.78	Peak
5	17181.000	42.39	7.60	34.38	30.31	45.92	68.20	22.28	Peak
6	17830.000	47.54	8.13	34.32	27.69	49.04	74.00	24.96	Peak

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

Data: 42 File: \\EMC-966-1\test data\2022\RF\IT\TCL DouMei\TP735W.EM6 (78) Date: 2022-03-30

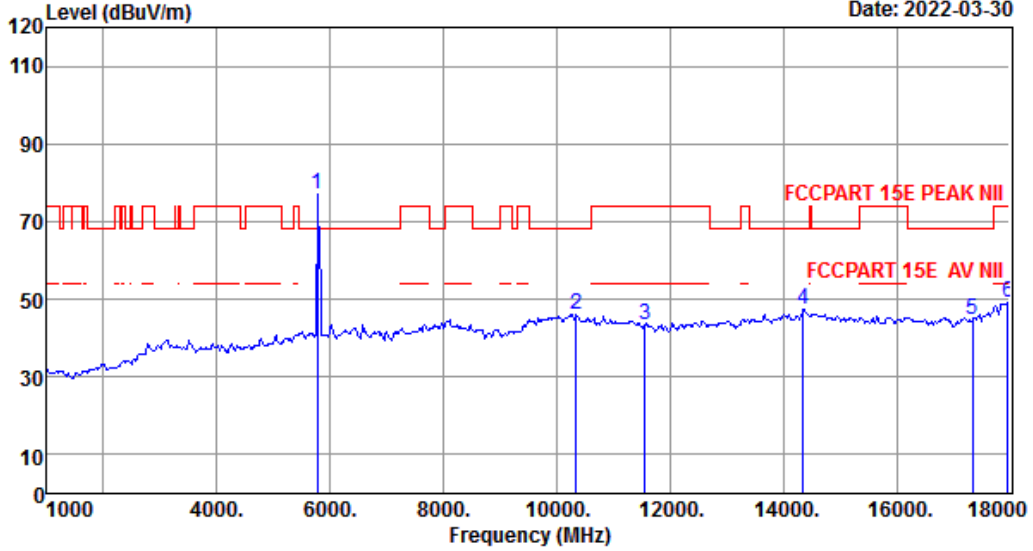


Site no. : 1# 966 Chamber Data no. : 42
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X ,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX 5727MHz

	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	5727.000	32.86	3.98	34.41	72.79	75.22	68.20	-7.02	Peak
2	11454.000	39.90	6.15	34.64	33.14	44.55	74.00	29.45	Peak
3	13614.000	40.44	6.38	34.34	34.15	46.63	68.20	21.57	Peak
4	14600.000	40.98	6.88	34.48	33.15	46.53	68.20	21.67	Peak
5	17181.000	42.39	7.60	34.38	28.38	43.99	68.20	24.21	Peak
6	17966.000	48.63	8.22	34.30	26.77	49.32	74.00	24.68	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.

Data: 43 File: \\EMC-966-1\test data\2022\RF\TCL DouMei\P735W.EM6 (78) Date: 2022-03-30

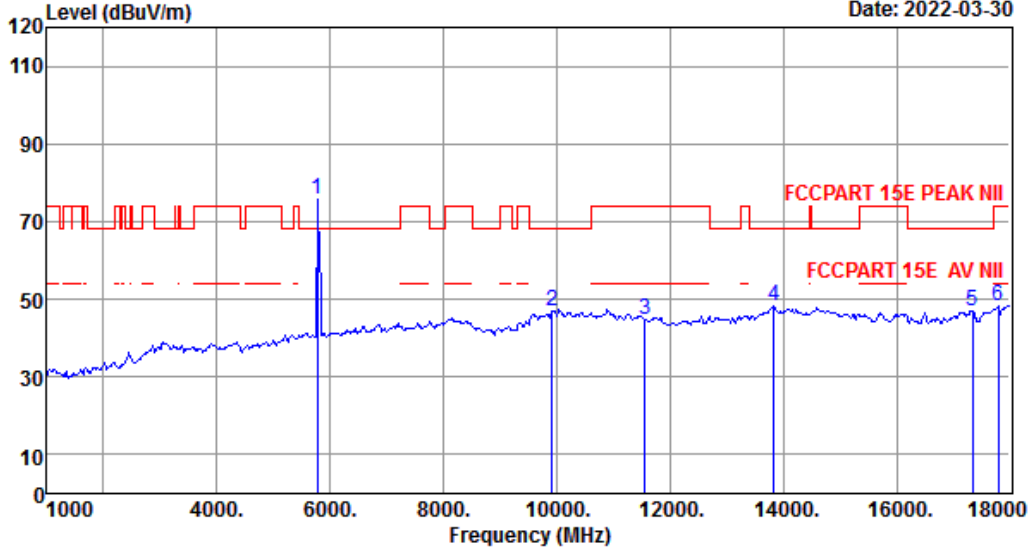


Site no. : 1# 966 Chamber Data no. : 43
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X ,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX 5780MHz

	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	5780.000	32.84	4.05	34.39	74.44	76.94	68.20	-8.74	Peak
2	10350.000	39.26	5.98	34.31	35.23	46.16	68.20	22.04	Peak
3	11560.000	39.90	6.12	34.67	32.17	43.52	74.00	30.48	Peak
4	14345.000	41.03	6.79	34.40	34.12	47.54	68.20	20.66	Peak
5	17340.000	43.61	7.75	34.37	27.74	44.73	68.20	23.47	Peak
6	17966.000	48.63	8.22	34.30	26.50	49.05	74.00	24.95	Peak

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

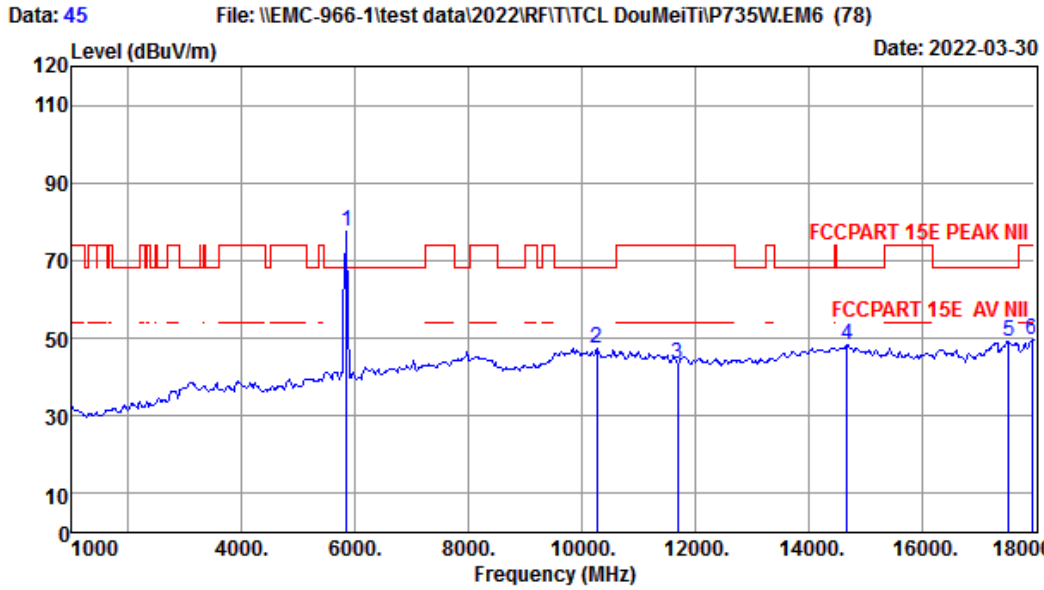
Data: 44 File: \\EMC-966-1\test data\2022\RF\TCL DouMei\TP735W.EM6 (78) Date: 2022-03-30



Site no. : 1# 966 Chamber Data no. : 44
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X ,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX 5780MHz

	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	5780.000	32.84	4.05	34.39	73.28	75.78	68.20	-7.58	Peak
2	9925.000	38.76	5.84	34.21	36.55	46.94	68.20	21.26	Peak
3	11560.000	39.90	6.12	34.67	33.46	44.81	74.00	29.19	Peak
4	13835.000	40.81	6.46	34.32	35.33	48.28	68.20	19.92	Peak
5	17340.000	43.61	7.75	34.37	29.77	46.76	68.20	21.44	Peak
6	17796.000	47.27	8.11	34.32	27.13	48.19	74.00	25.81	Peak

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

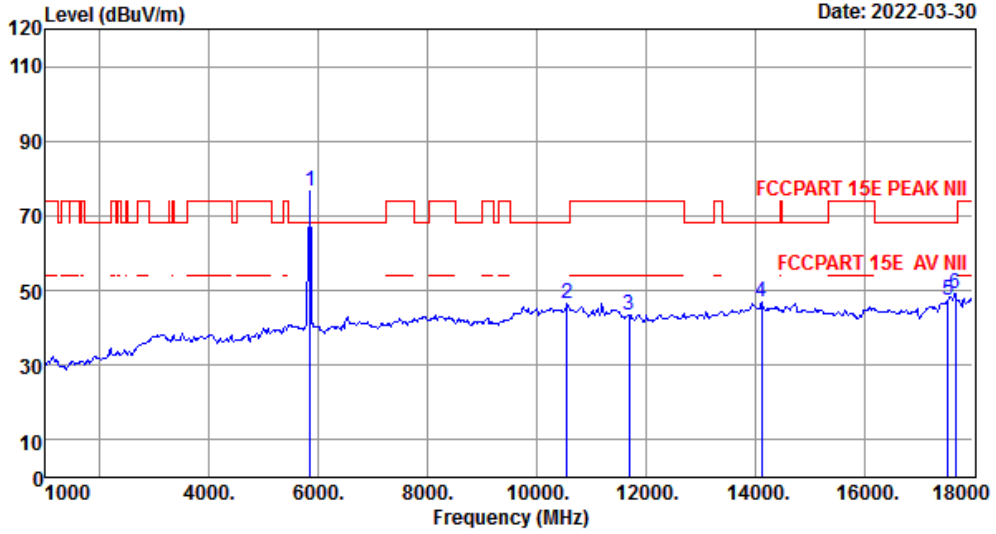


Site no. : 1# 966 Chamber Data no. : 45
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X ,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX 5848MHz

	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	5845.000	32.83	4.13	34.36	75.11	77.71	68.20	-9.51	Peak
2	10265.000	39.17	5.96	34.28	36.41	47.26	68.20	20.94	Peak
3	11696.000	39.90	6.06	34.71	32.21	43.46	74.00	30.54	Peak
4	14685.000	40.96	6.87	34.50	35.12	48.45	68.20	19.75	Peak
5	17544.000	45.24	7.94	34.35	30.17	49.00	68.20	19.20	Peak
6	17949.000	48.49	8.21	34.31	27.13	49.52	74.00	24.48	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.

Data: 46 File: \\EMC-966-1\test data\2022\RF\IT\TCL DouMei\TP735W.EM6 (78) Date: 2022-03-30



Site no. : 1# 966 Chamber Data no. : 46
 Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:20.8';Humi:53%;Press:101.52kPa
 Engineer : JBR
 EUT : 5.1 Channel Sound Bar with Dolby Audio,
 DTS Virtual:X ,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX 5848MHz

	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	5848.000	32.83	4.13	34.36	74.23	76.83	68.20	-8.63	Peak
2	10554.000	39.46	6.03	34.37	35.17	46.29	68.20	21.91	Peak
3	11696.000	39.90	6.06	34.71	31.96	43.21	74.00	30.79	Peak
4	14124.000	41.08	6.62	34.34	33.39	46.75	68.20	21.45	Peak
5	17544.000	45.24	7.94	34.35	28.56	47.39	68.20	20.81	Peak
6	17677.000	46.32	8.03	34.33	29.31	49.33	68.20	18.87	Peak

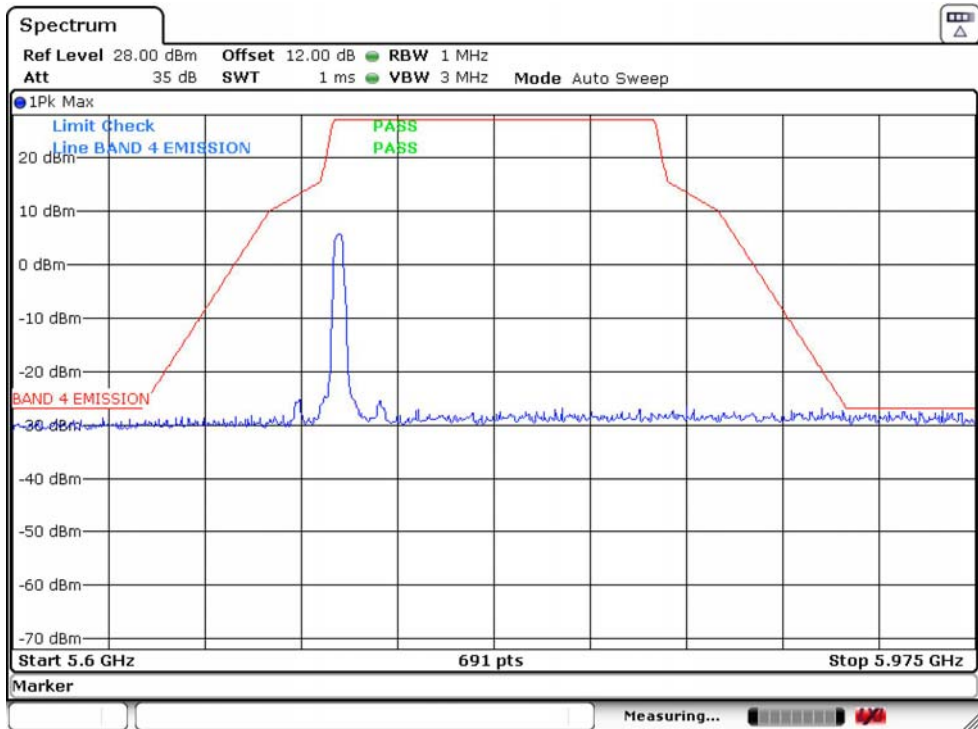
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

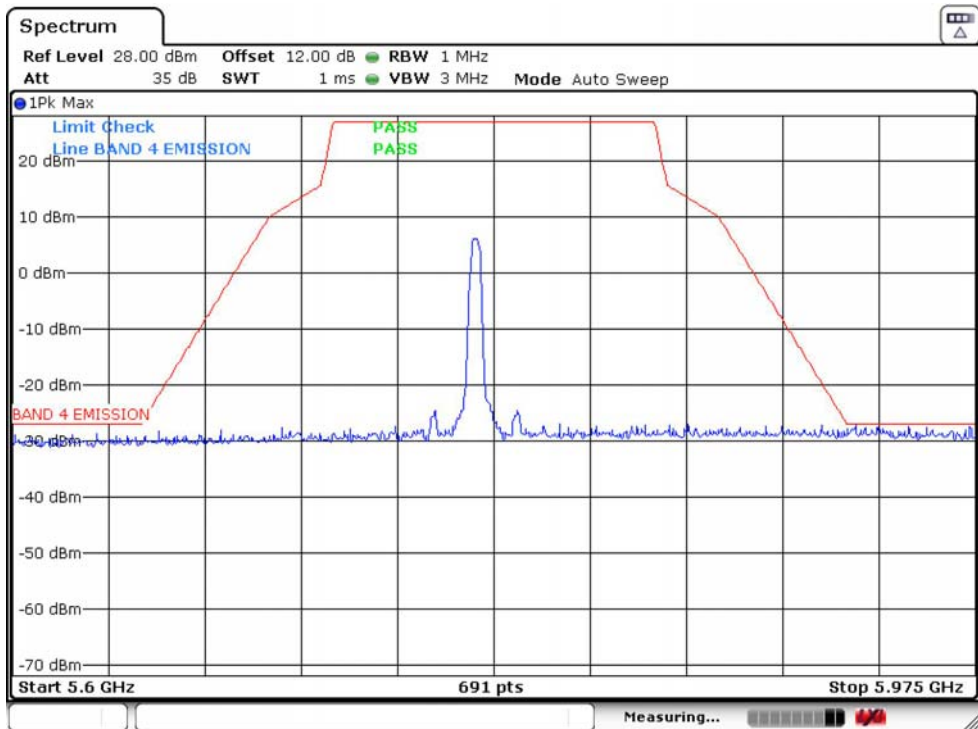
1. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Band Edge

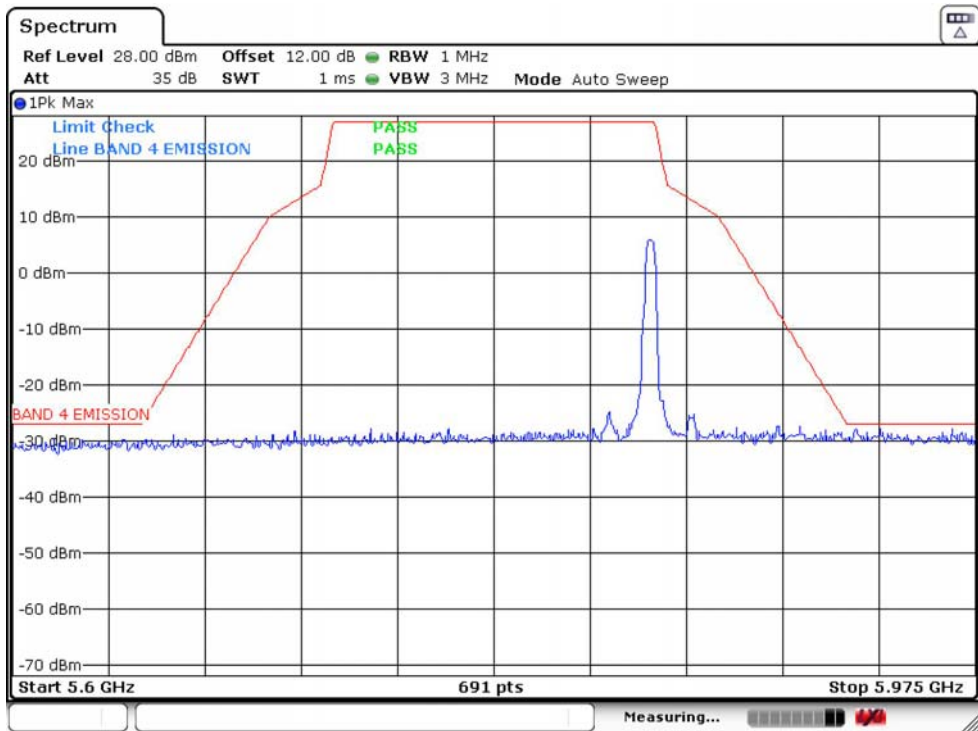
5727MHz



5780MHz



5848MHz



All modulations are all tested ,only worse case is reported

18000MHz-40000MHz

Pass

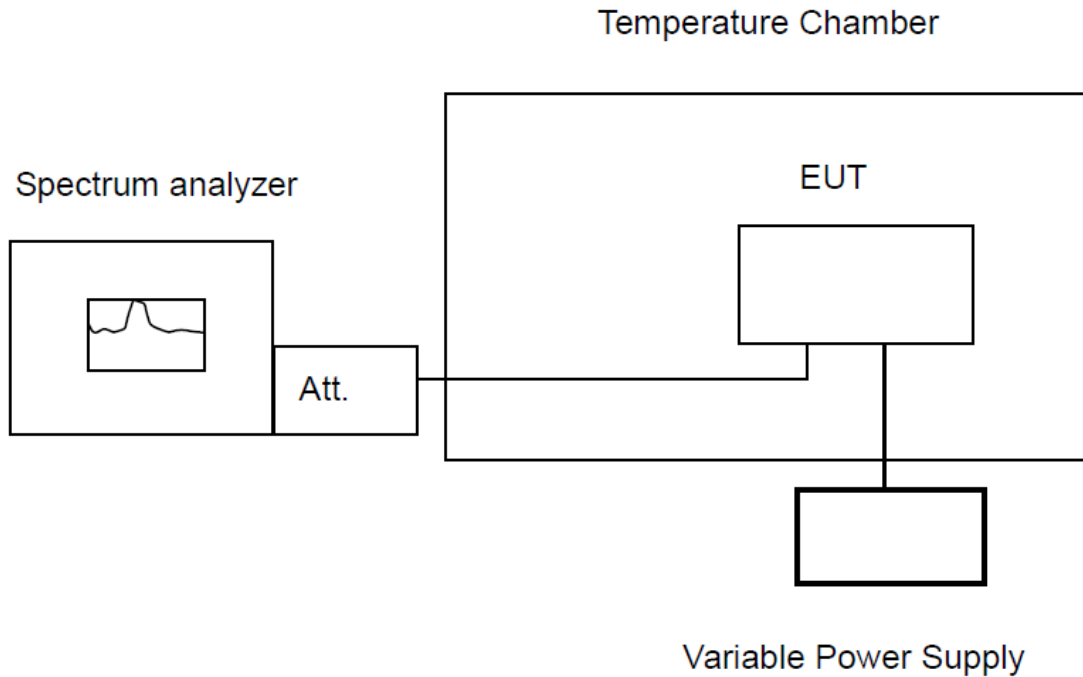
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7. FREQUENCY STABILITY

7.1. Limit

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

7.2. Test Setup



7.3. Spectrum Analyzer Setting

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

7.4. Test Procedure

For measurement frequency stability under temperature variation :

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

For frequency stability under voltage variation:

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

7.5. Test Result

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5727	120	50	0	5727.0302330	5.28
			2	5727.0304320	5.31
			5	5727.0303960	5.31
			10	5727.0303210	5.29
	120	40	0	5727.0304210	5.31
			2	5727.0302440	5.28
			5	5727.0303140	5.29
			10	5727.0303620	5.30
	120	30	0	5727.0303540	5.30
			2	5727.0303940	5.31
			5	5727.0304110	5.31
			10	5727.0302410	5.28
	120	20	0	5727.0303240	5.29
			2	5727.0303490	5.30
			5	5727.0302340	5.28
			10	5727.0304030	5.31
	120	10	0	5727.0302670	5.28
			2	5727.0303560	5.30
			5	5727.0302990	5.29
			10	5727.0302310	5.28
	120	0	0	5727.0303020	5.29
			2	5727.0303870	5.31
			5	5727.0302990	5.29
			10	5727.0303040	5.29
	120	-10	0	5727.0303260	5.30
			2	5727.0304150	5.31
			5	5727.0303700	5.30
			10	5727.0302370	5.28
	120	-20	0	5727.0302390	5.28
			2	5727.0303350	5.30
			5	5727.0303860	5.31
			10	5727.0303100	5.29
120	20	/	5727.0303810	5.30	
102	20	/	5727.0302820	5.29	
138	20	/	5727.0302970	5.29	
MAX Frquency Error(ppm)					5.31

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5780	120	50	0	5780.0304970	5.28
			2	5780.0305660	5.29
			5	5780.0305640	5.29
			10	5780.0305350	5.28
	120	40	0	5780.0305000	5.28
			2	5780.0305410	5.28
			5	5780.0305130	5.28
			10	5780.0305600	5.29
	120	30	0	5780.0305260	5.28
			2	5780.0305230	5.28
			5	5780.0305010	5.28
			10	5780.0305370	5.28
	120	20	0	5780.0305570	5.29
			2	5780.0305150	5.28
			5	5780.0305030	5.28
			10	5780.0305540	5.29
	120	10	0	5780.0305310	5.28
			2	5780.0305590	5.29
			5	5780.0305180	5.28
			10	5780.0305330	5.28
	120	0	0	5780.0304960	5.28
			2	5780.0305030	5.28
			5	5780.0304960	5.28
			10	5780.0305360	5.28
	120	-10	0	5780.0305400	5.28
			2	5780.0305000	5.28
			5	5780.0305330	5.28
			10	5780.0305630	5.29
	120	-20	0	5780.0305050	5.28
			2	5780.0305390	5.28
			5	5780.0305660	5.29
			10	5780.0305490	5.29
120	20	/	5780.0305620	5.29	
102	20	/	5780.0305630	5.29	
138	20	/	5780.0305600	5.29	
MAX Frquency Error(ppm)					5.29

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
5848	120	50	0	5847.9308740	-11.82
			2	5847.9208690	-13.53
			5	5847.9214700	-13.43
			10	5847.9212070	-13.47
	120	40	0	5847.9298290	-12.00
			2	5847.9303150	-11.92
			5	5847.9257400	-12.70
			10	5847.9236470	-13.06
	120	30	0	5847.9246120	-12.89
			2	5847.9261820	-12.62
			5	5847.9220110	-13.34
			10	5847.9284660	-12.23
	120	20	0	5847.9263790	-12.59
			2	5847.9270350	-12.48
			5	5847.9222620	-13.29
			10	5847.9212310	-13.47
	120	10	0	5847.9227690	-13.21
			2	5847.9271750	-12.45
			5	5847.9240620	-12.99
			10	5847.9230430	-13.16
	120	0	0	5847.9210110	-13.51
			2	5847.9265050	-12.57
			5	5847.9214070	-13.44
			10	5847.9210050	-13.51
	120	-10	0	5847.9240700	-12.98
			2	5847.9214270	-13.44
			5	5847.9252140	-12.79
			10	5847.9250640	-12.81
	120	-20	0	5847.9283140	-12.26
			2	5847.9301350	-11.95
			5	5847.9255480	-12.73
			10	5847.9285490	-12.22
120	20	/	5847.9285820	-12.21	
102	20	/	5847.9238950	-13.01	
138	20	/	5847.9235460	-13.07	
MAX Frquency Error(ppm)					-11.82

8. AC POWER LINE CONDUCTED EMISSIONS

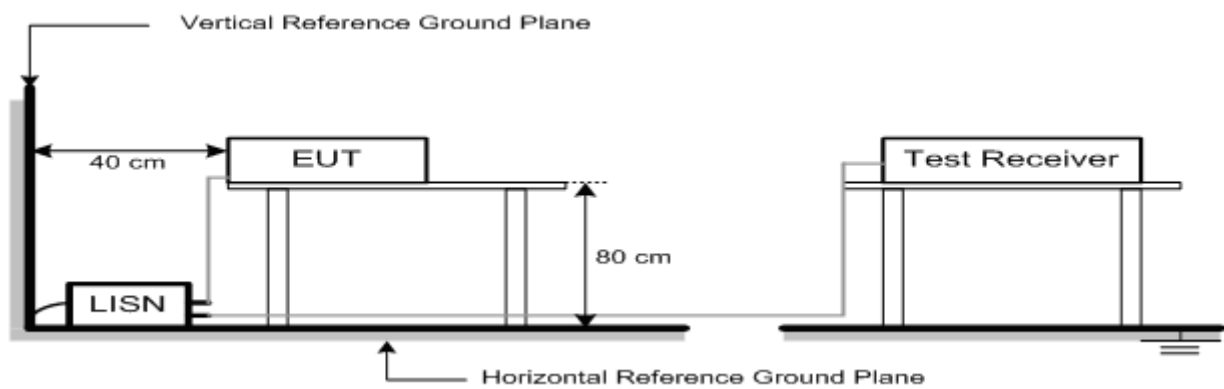
8.1. Limit

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

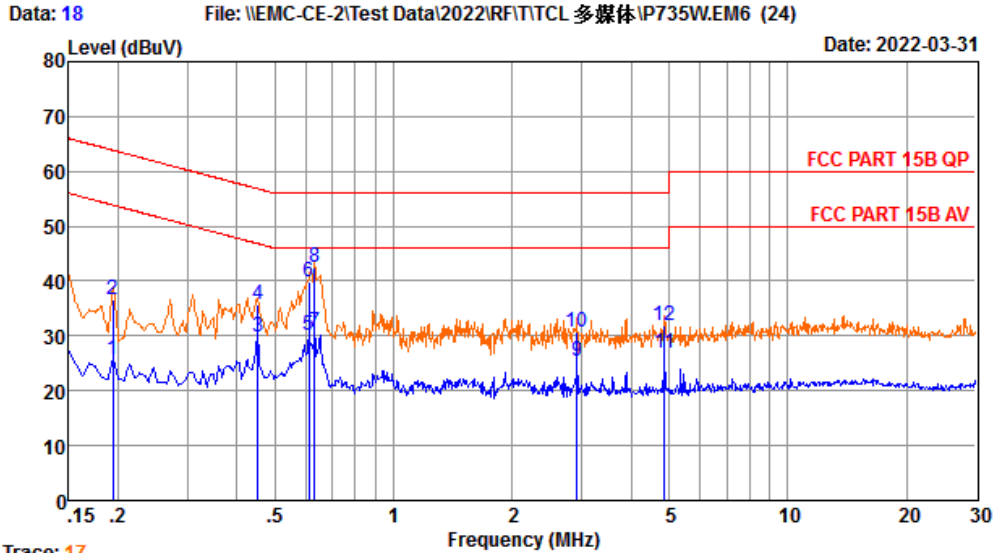
8.4. Test Procedure

- 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

EST Technology

Chilingxiang, Qishantou, Santun,
Houjie, Dongguan, Guangdong, China
Tel: +86-769-83081888
Fax: +86-769-83081878



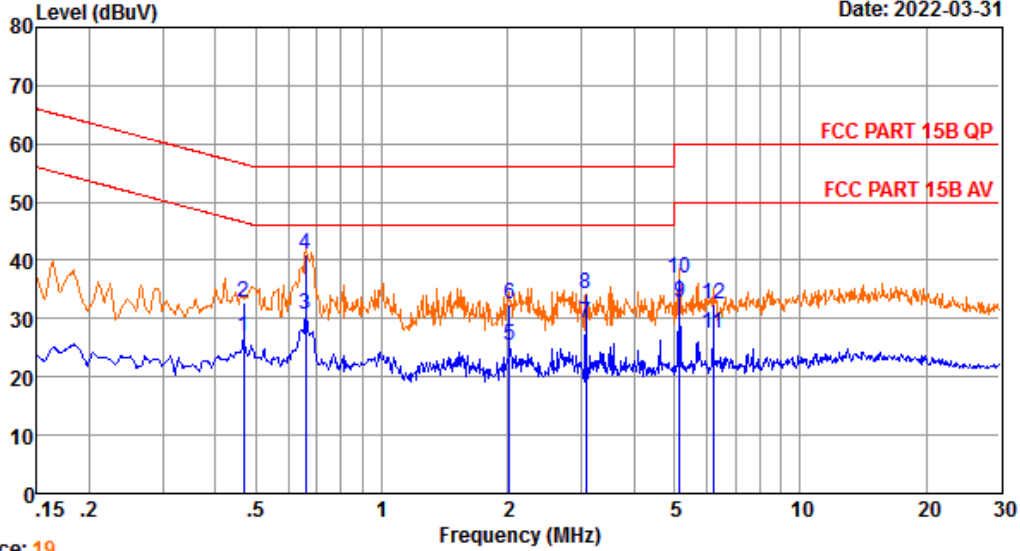
Trace: 17
 Site no : 2#CE Shield Room Data no. : 18
 Env. / Ins. : Temp:22.5°C Humi:46% Press:101.40kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : 5.1 Channal Sound Bar with Dolby Audio,
 DTS Virtual:X,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.194	9.84	9.77	6.08	25.69	53.84	28.15	Average
2	0.194	9.84	9.77	17.00	36.61	63.84	27.23	QP
3	0.452	9.84	9.92	9.93	29.69	46.85	17.16	Average
4	0.452	9.84	9.92	15.89	35.65	56.85	21.20	QP
5	0.611	9.83	9.92	10.34	30.09	46.00	15.91	Average
6	0.611	9.83	9.92	20.11	39.86	56.00	16.14	QP
7	0.630	9.83	9.92	10.86	30.61	46.00	15.39	Average
8	0.630	9.83	9.92	22.84	42.59	56.00	13.41	QP
9	2.915	9.93	9.97	5.55	25.45	46.00	20.55	Average
10	2.915	9.93	9.97	10.67	30.57	56.00	25.43	QP
11	4.874	9.87	10.00	6.90	26.77	46.00	19.23	Average
12	4.874	9.87	10.00	11.89	31.76	56.00	24.24	QP

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



Data: 20 File: \\EMC-CE-2\Test Data\2022\RF\TCL 多媒体 IP735W.EM6 (24) Date: 2022-03-31



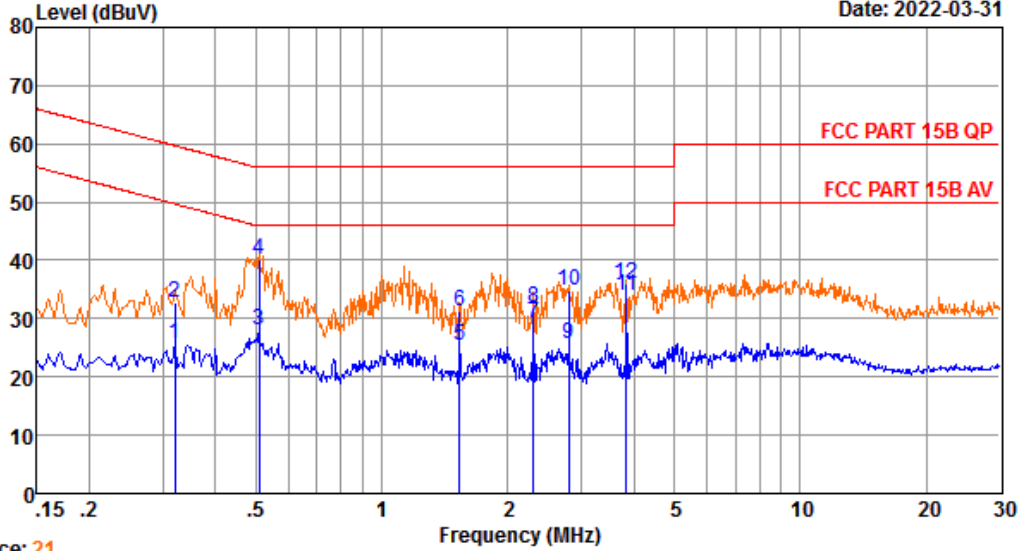
Trace: 19
 Site no : 2#CE Shield Room Data no. : 20
 Env. / Ins. : Temp:22.5°C Humi:46% Press:101.40kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : 5.1 Channal Sound Bar with Dolby Audio,
 DTS Virtual:X,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 120V/60Hz
 M/N : P735W
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.469	9.75	9.92	7.18	26.85	46.54	19.69	Average
2	0.469	9.75	9.92	13.11	32.78	56.54	23.76	QP
3	0.658	9.76	9.92	11.03	30.71	46.00	15.29	Average
4	0.658	9.76	9.92	21.22	40.90	56.00	15.10	QP
5	2.023	9.96	9.96	5.45	25.37	46.00	20.63	Average
6	2.023	9.96	9.96	12.45	32.37	56.00	23.63	QP
7	3.074	9.98	9.98	9.34	29.30	46.00	16.70	Average
8	3.074	9.98	9.98	14.23	34.19	56.00	21.81	QP
9	5.139	10.06	10.01	12.83	32.90	50.00	17.10	Average
10	5.139	10.06	10.01	16.88	36.95	60.00	23.05	QP
11	6.186	10.05	10.03	7.43	27.51	50.00	22.49	Average
12	6.186	10.05	10.03	12.33	32.41	60.00	27.59	QP

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

Data: 22 File: \\EMC-CE-2\Test Data\2022\RF\TCL 多媒体 IP735W.EM6 (24)

Date: 2022-03-31

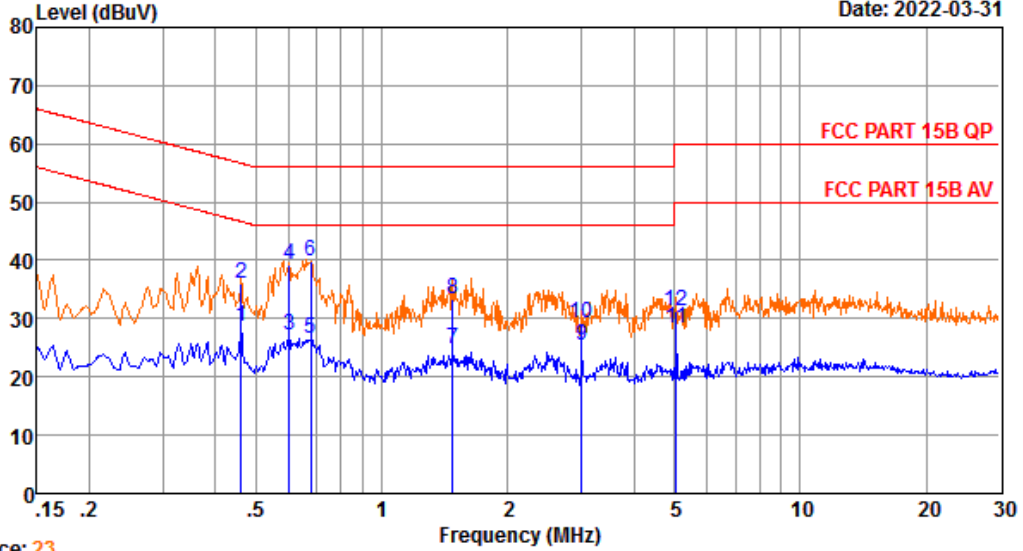


Trace: 21
 Site no : 2#CE Shield Room Data no. : 22
 Env. / Ins. : Temp:22.5°C Humi:46% Press:101.40kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : 5.1 Channal Sound Bar with Dolby Audio,
 DTS Virtual:X,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 240V/60Hz
 M/N : P735W
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.320	9.83	9.92	5.92	25.67	49.71	24.04	Average
2	0.320	9.83	9.92	13.00	32.75	59.71	26.96	QP
3	0.510	9.76	9.92	8.25	27.93	46.00	18.07	Average
4	0.510	9.76	9.92	20.33	40.01	56.00	15.99	QP
5	1.535	9.87	9.95	5.54	25.36	46.00	20.64	Average
6	1.535	9.87	9.95	11.33	31.15	56.00	24.85	QP
7	2.309	9.95	9.96	9.30	29.21	46.00	16.79	Average
8	2.309	9.95	9.96	12.01	31.92	56.00	24.08	QP
9	2.794	9.97	9.97	5.75	25.69	46.00	20.31	Average
10	2.794	9.97	9.97	14.99	34.93	56.00	21.07	QP
11	3.840	10.01	9.99	13.94	33.94	46.00	12.06	Average
12	3.840	10.01	9.99	16.00	36.00	56.00	20.00	QP

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

Data: 24 File: \\EMC-CE-2\Test Data\2022\RF\TCL 多媒体 IP735W.EM6 (24) Date: 2022-03-31



Trace: 23
 Site no : 2#CE Shield Room Data no. : 24
 Env. / Ins. : Temp:22.5°C Humi:46% Press:101.40kPa LINE Phase : LINE
 Limit : FCC PART 15B QP
 Engineer : XJF
 EUT : 5.1 Channal Sound Bar with Dolby Audio,
 DTS Virtual:X,Wireless Subwoofer and
 Wired Satellite Speakers
 Power : AC 240V/60Hz
 M/N : P735W
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.461	9.84	9.92	9.01	28.77	46.67	17.90	Average
2	0.461	9.84	9.92	16.22	35.98	56.67	20.69	QP
3	0.601	9.83	9.92	7.46	27.21	46.00	18.79	Average
4	0.601	9.83	9.92	19.44	39.19	56.00	16.81	QP
5	0.675	9.82	9.92	6.96	26.70	46.00	19.30	Average
6	0.675	9.82	9.92	20.01	39.75	56.00	16.25	QP
7	1.480	9.86	9.95	4.84	24.65	46.00	21.35	Average
8	1.480	9.86	9.95	13.55	33.36	56.00	22.64	QP
9	3.009	9.92	9.97	5.38	25.27	46.00	20.73	Average
10	3.009	9.92	9.97	9.33	29.22	56.00	26.78	QP
11	5.058	9.86	10.00	8.59	28.45	50.00	21.55	Average
12	5.058	9.86	10.00	11.56	31.42	60.00	28.58	QP

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

9. ANTENNA REQUIREMENTS

9.1. Limit

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

9.2. Test Result

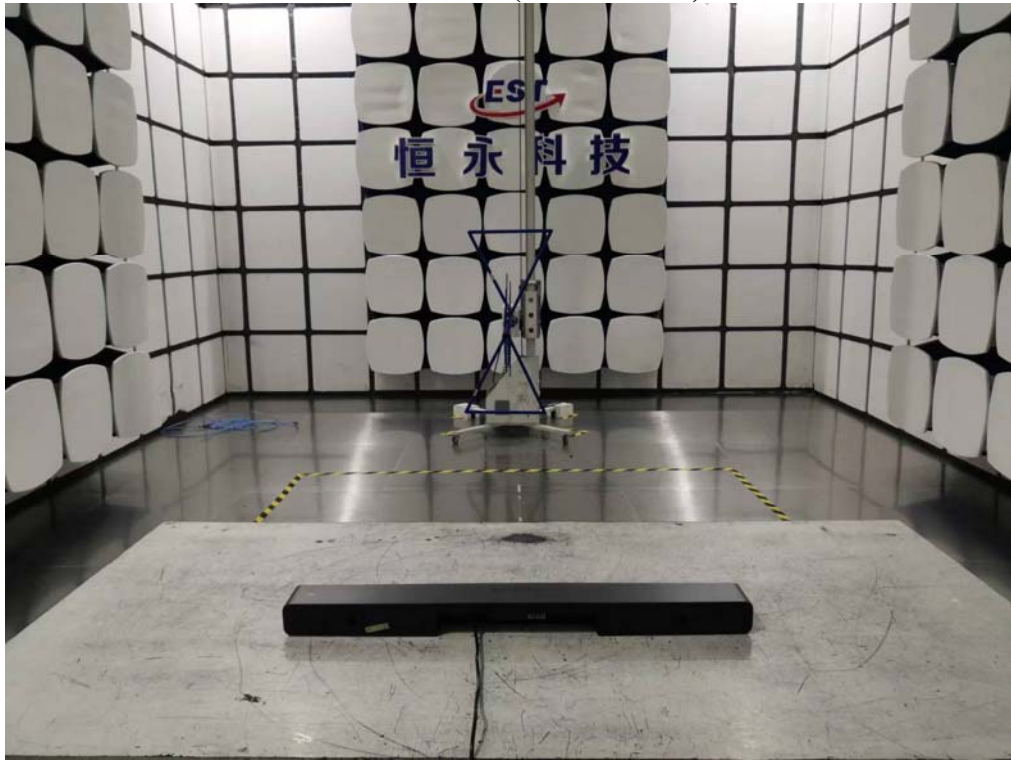
The antennas used for this product is internal antenna, so compliance with antenna requirements.
(Please refer to the EUT photo for details)

10. TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)

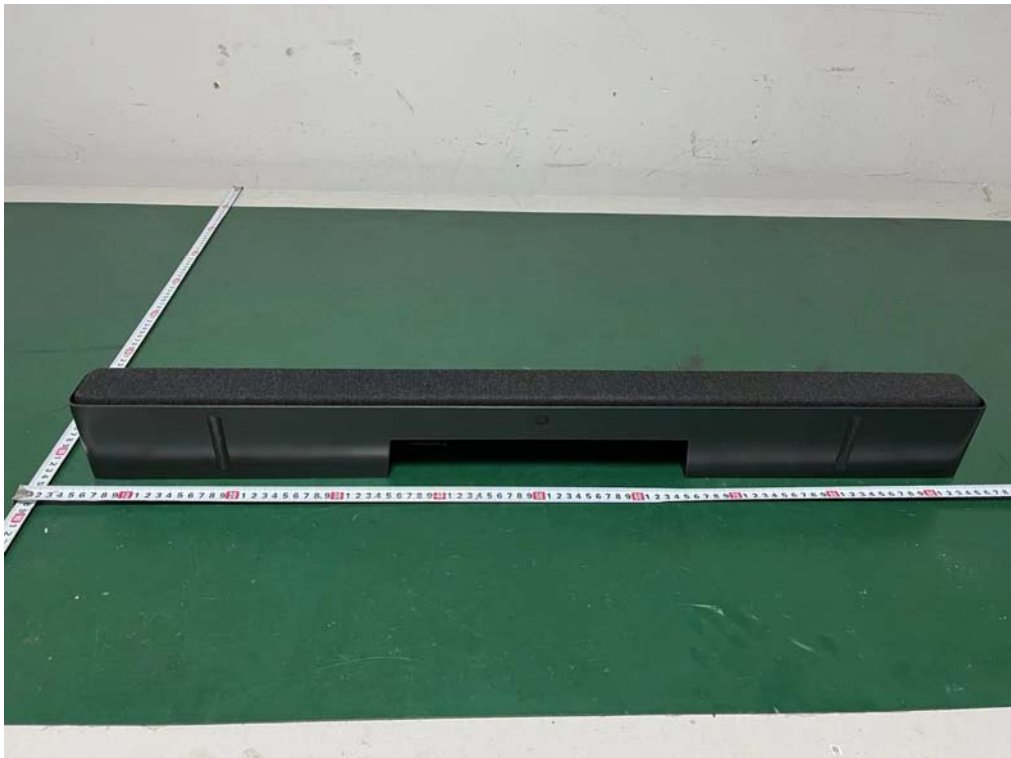


Radiated Test (Above 1GHz)



11. EUT PHOTO

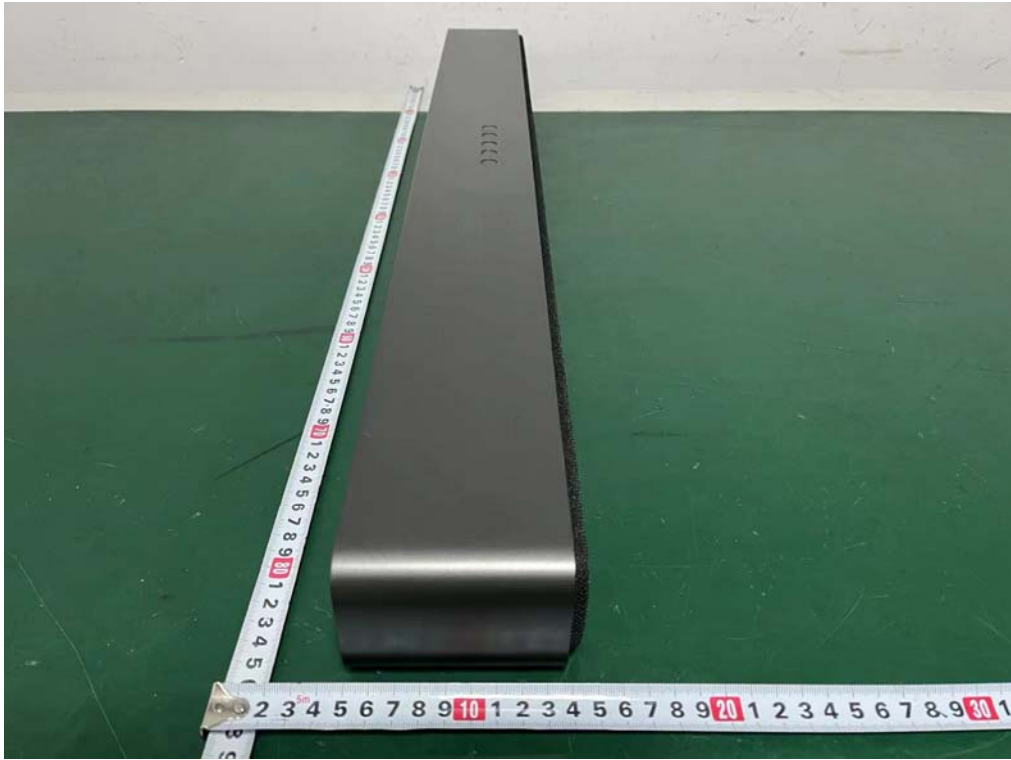
External Photos
M/N: P735W



External Photos
M/N: P735W



External Photos
M/N: P735W



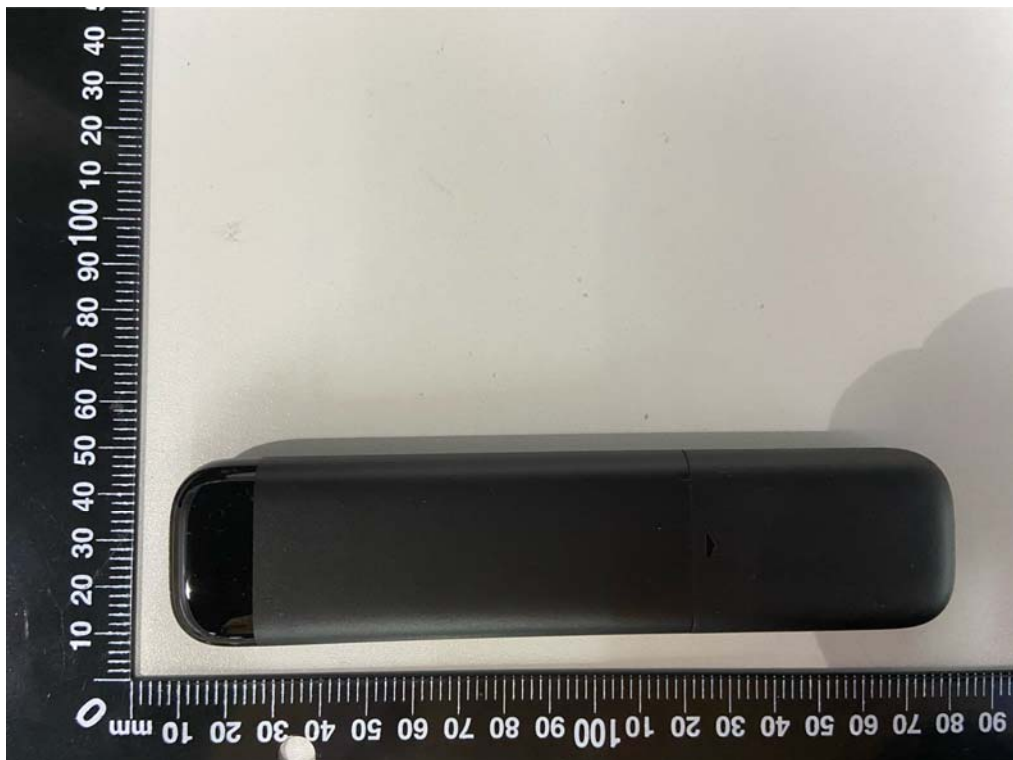
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M/N: P735W



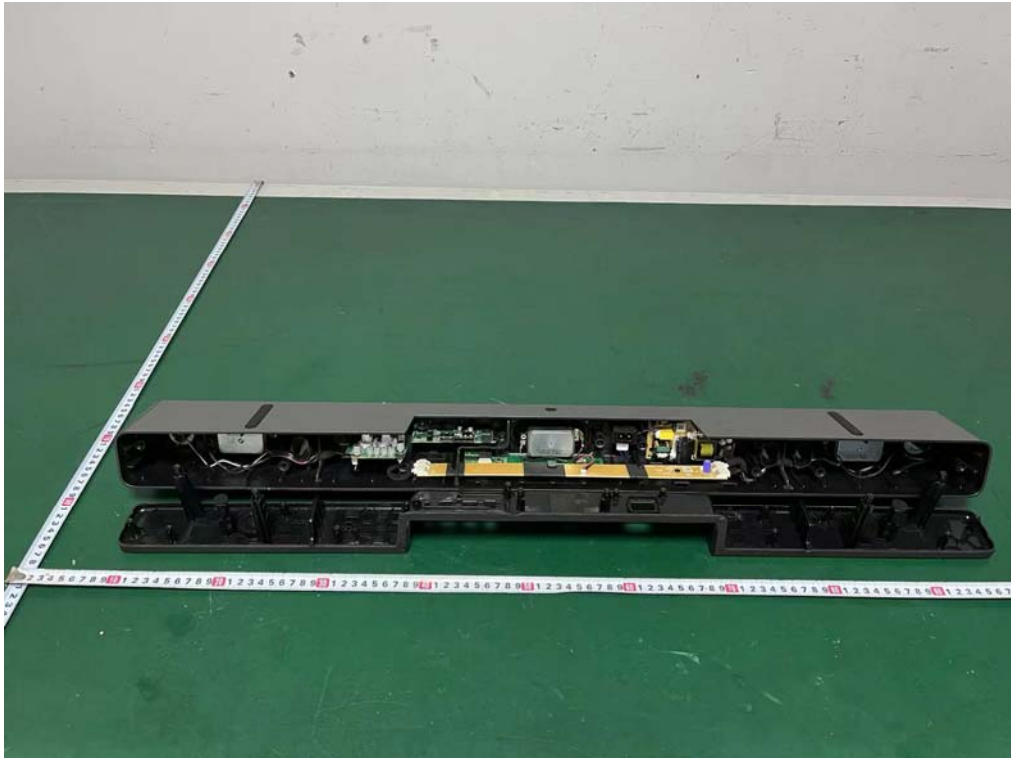
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M/N: P735W



External Photos
M/N: P735W



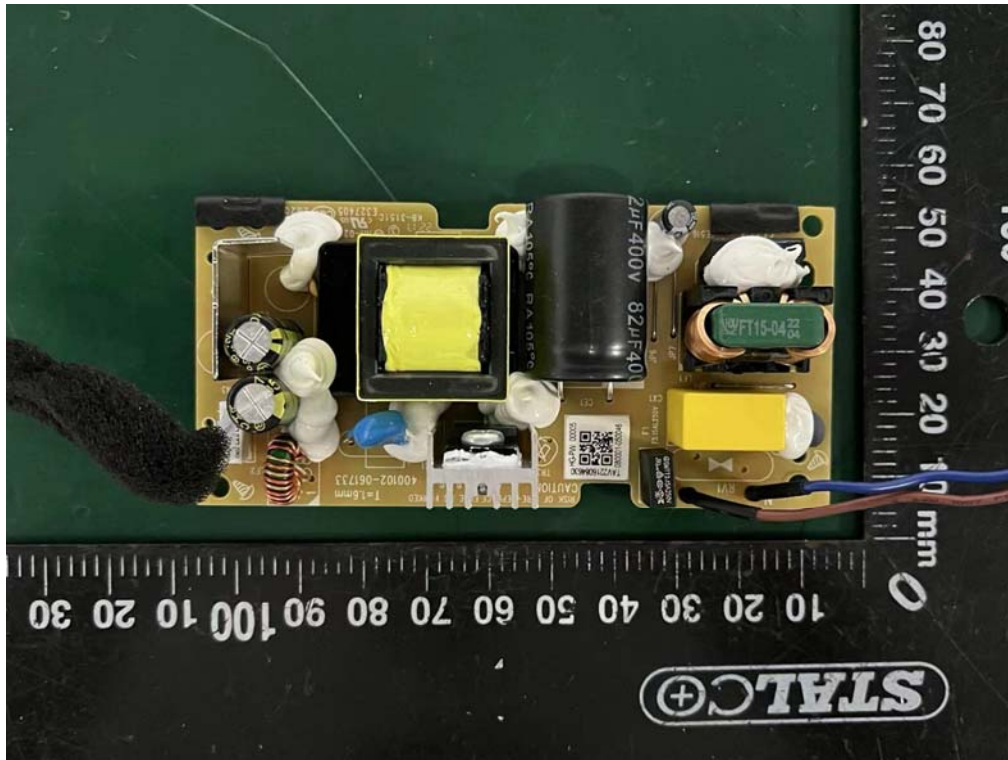
Internal Photos
M/N: P735W



Internal Photos
M/N: P735W



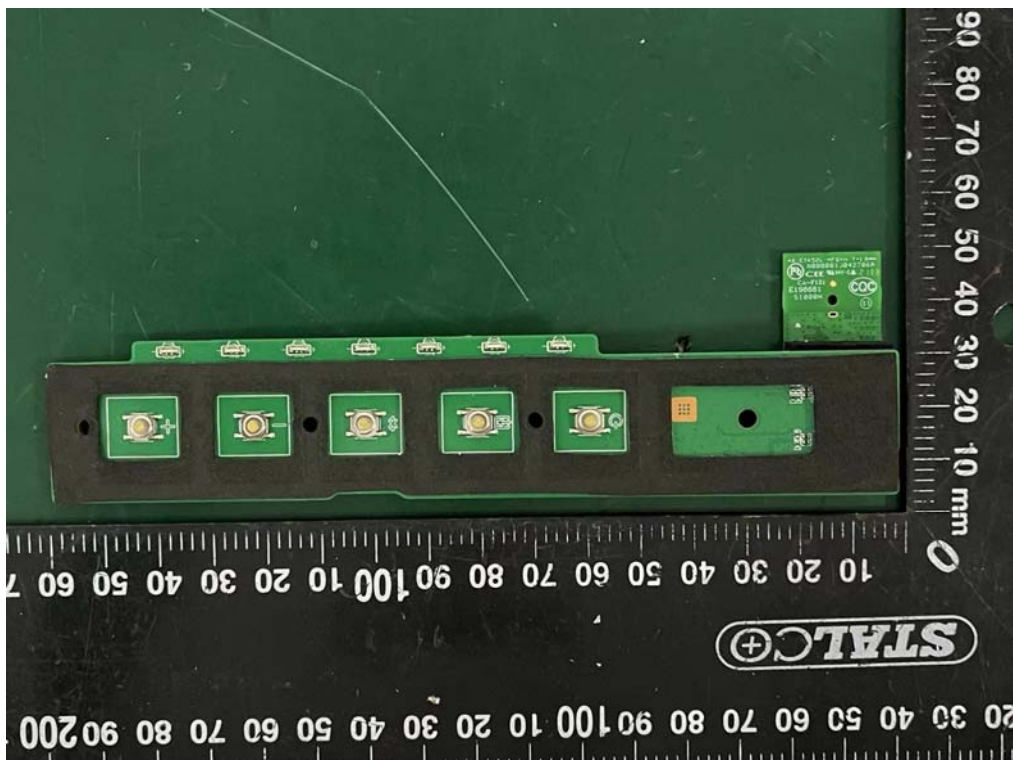
Internal Photos
M/N: P735W



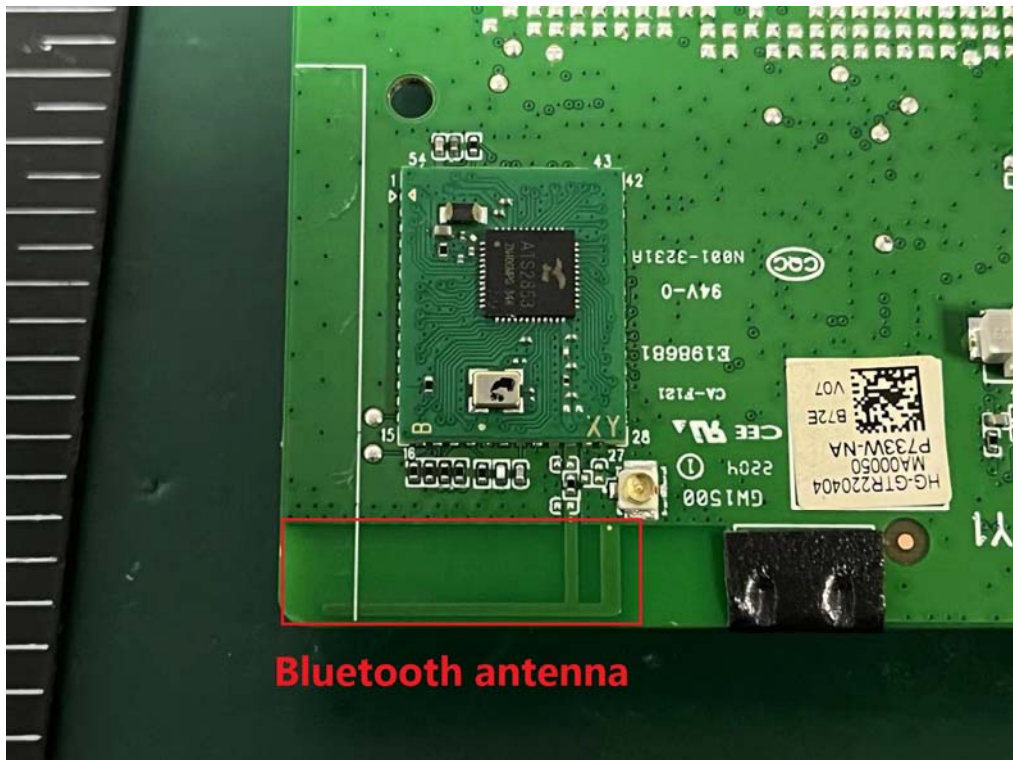
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M/N: P735W



Internal Photos
M/N: P735W

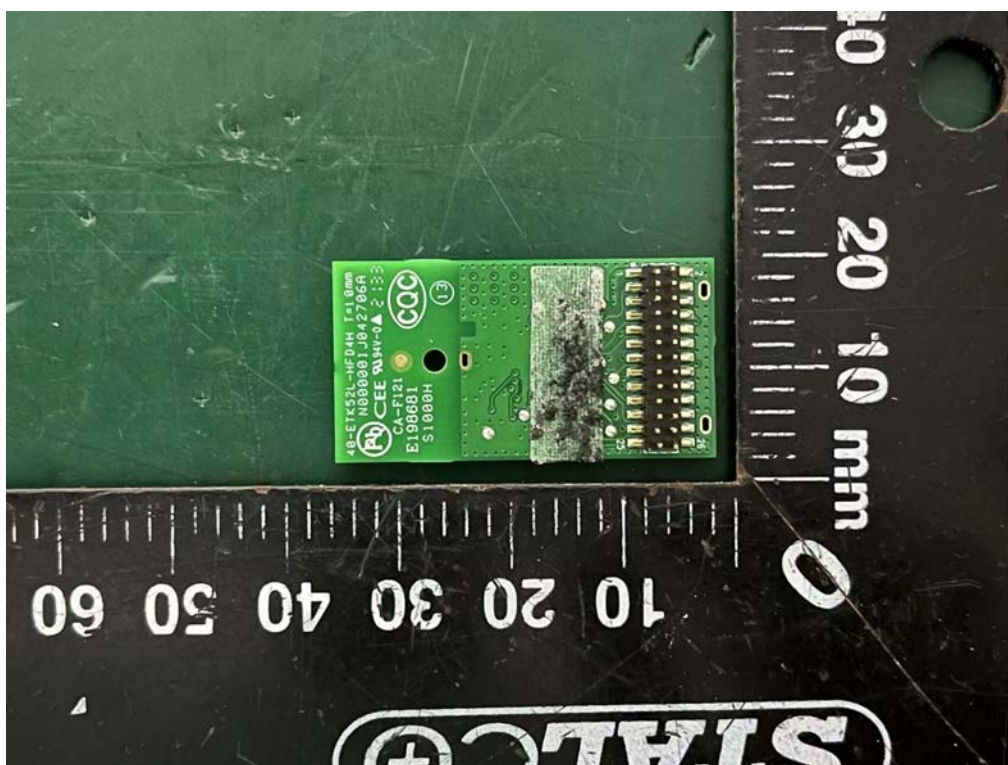
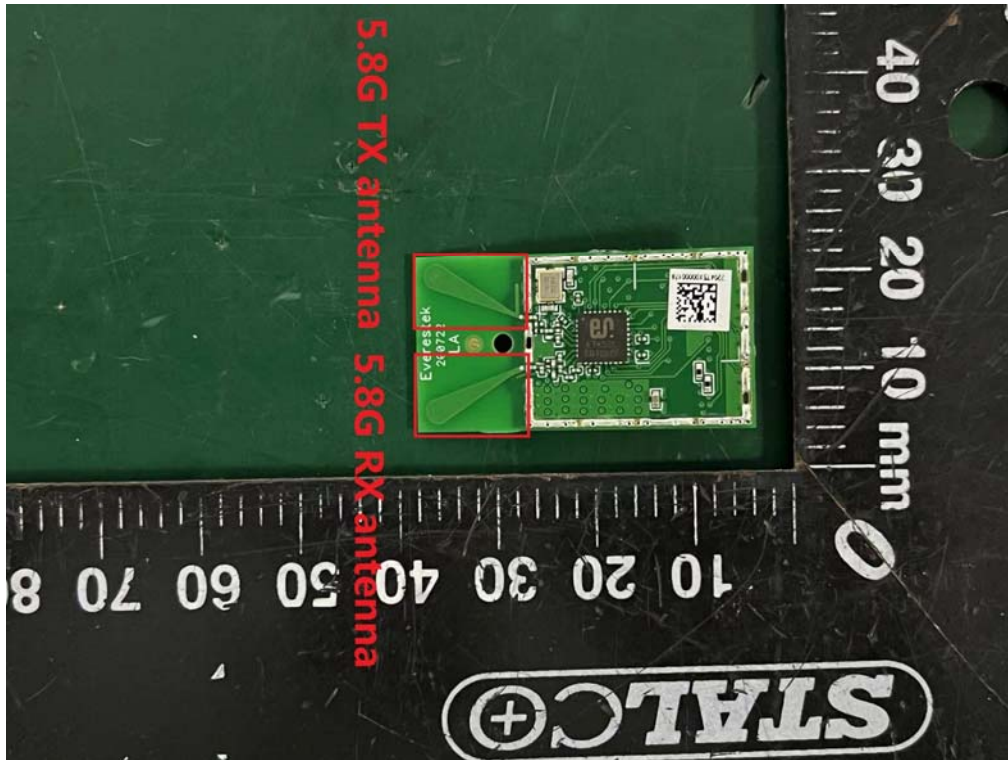


Internal Photos
M/N: P735W



Internal Photos

M/N: P735W



End of Test Report