

FCC PART 15E TEST REPORT FOR CERTIFICATION

On Behalf of

TCL OVERSEAS MARKETING LTD

Wireless audio module

Model Number: RS2T58M

FCC ID: 2BEHE-RS2T58M

Applicant :	TCL OVERSEAS MARKETING LTD
Address:	5/F, Building 22E, 22 Science Park East Avenue HongKong
	Science Park Shatin Hong Kong
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Report Number:	ESTE-R2406279
Date of Test:	Mar. 17, 2024 ~ Jun. 24, 2024
Date of Report:	Jun. 27, 2024

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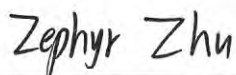
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Applicant: Address:	TCL OVERSEAS MARKETING LTD 5/F, Building 22E, 22 Science Park East Avenue HongKong Science Park Shatin Hong Kong		
Manufacturer: Address:	TCL OVERSEAS MARKETING LTD 5/F, Building 22E, 22 Science Park East Avenue HongKong Science Park Shatin Hong Kong		
Factory: Address:	Shenzhen Shi Xinzhongxin Technology Co., Ltd Floor1~3 of Block1, Block2,Block3, Dong Huan Industrial Park, NanPu Road No.293, Shang Liao Community, Xin Qiao Street, BaoAn District, Shenzhen City, Guangdong Province, PRC.		
E.U.T:	Wireless audio module		
Model Number:	RS2T58M		
Power Supply:	USB 5V From PC		
Trade Name:	TCL	Serial No.:	-----
Date of Receipt:	Mar. 17, 2024	Date of Test:	Mar. 17, 2024 ~ Jun. 24, 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: Jun. 27, 2024		

Prepared by:

Reviewed by:

Approved by:



Zephyr Zhu / 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	:	2BEHE-RS2T58M	
Product Name	:	Wireless audio module	
Model Number	:	RS2T58M	
Software Version	:	N/A	
Hardware Version	:	N/A	
Operation frequency	:	5150 MHz~5250 MHz 5725 MHz~5850 MHz	
Modulation	:	GFSK	
Transmit Data Rate	:	TX	
Transmit Power	:	5150 MHz~5250 MHz	TX: 6.61dBm
		5725 MHz~5850 MHz	TX: 7.88dBm
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	-	-0.80
2	-	-	Internal	-	1.36

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.

TX Mode	ANT No.	SISO Configuration	MIMO Configuration
5.2G		ANT1 or ANT2	/
5.8G		ANT1 or 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.

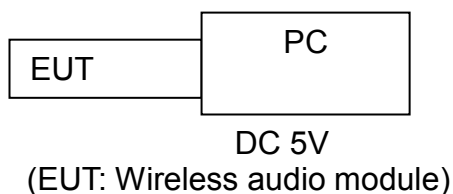
2.4.Assistant equipment used for test

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

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

2.5.Block Diagram

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



2.6.Test Mode

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

Test Item	Test Mode	Channel	Modulation	Data rate
6dB Bandwidth	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
26dB Bandwidth	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
99% Occupied Bandwidth	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
Maximum Conducted Output Power	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
Peak Power Spectral Density	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
Unwanted Emissions and Band Edge(Above 1GHz)	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
Unwanted Emissions Below 1GHz	GFSK 5.2G	5155	GFSK	/
Frequency Stability	GFSK 5.2G	5155/5195/5245	GFSK	/
	GFSK 5.8G	5730/5790/5848	GFSK	/
AC Power Line Conducted Emissions	GFSK 5.2G	5155	GFSK	/

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	GFSK	1	5155
		2	5159
		3	5163
		4	5167
		5	5171
		6	5175
		7	5179
		8	5183
		9	5187
		10	5191
		11	5195
		12	5199
		13	5203
		14	5207
		15	5211
		16	5215
		17	5219
		18	5223
		19	5227
		20	5231
		21	5235
		22	5239
		23	5241
		24	5245

Band	Mode	Channel	Frequency (MHz)
U-NII-3	GFSK	1	5730
		2	5734
		3	5738
		4	5742
		5	5746
		6	5750
		7	5754
		8	5766
		9	5770
		10	5774
		11	5778
		12	5782
		13	5786
		14	5790
		15	5794
		16	5798
		17	5802
		18	5806
		19	5810
		20	5814
		21	5818
		22	5822
		23	5826
		24	5830
		25	5834
		26	5838
		27	5842
		28	5848

2.8.Power Setting of Test Software

Software Name	SSCOM V5.13.1		
Frequency(MHz)	5155	5195	5245
TX Setting	Default	Default	Default
Frequency(MHz)	5730	5790	5848
TX Setting	Default	Default	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	ESRP3	EST-E070	LISAI	June 11,24	June 11,25
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E048	LISAI	June 11,24	June 11,25
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 11,24	June 11,25
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 11,24	June 11,25
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	EST-E054	LISAI	June 11,24	June 11,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

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

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 11,24	June 11,25
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 11,24	June 11,25
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 11,24	June 11,25
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 11,24	June 11,25
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test

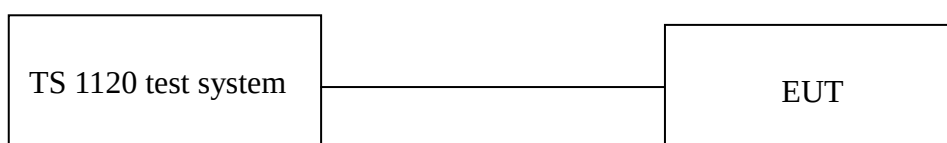
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 11,24	June 11,25
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 11,24	June 11,25

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

3.1.Limit

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

3.2.Test Setup



3.3.Spectrum Analyzer Setting

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

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

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

3.4.Test Procedure

For 26dB Bandwidth Measurement :

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

For 6dB Bandwidth Measurement :

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

For 99% Occupied Bandwidth Measurement :

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

3.5.Test Result

Refer to section 10: Appendix A3/A1/A2

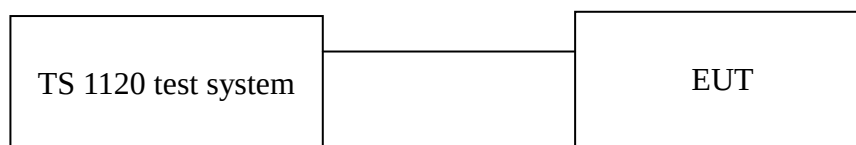
4.MAXIMUM CONDUCTED OUTPUT POWER

4.1.Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p $\leq$ 125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-3	All Device	1W(30dBm)

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

4.2.Test Setup



4.3.Spectrum Analyzer Setting

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

4.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Use the channel power function to measure maximum peak output power, allow trace to stabilize,
save test pictures.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

4.5.Test Result

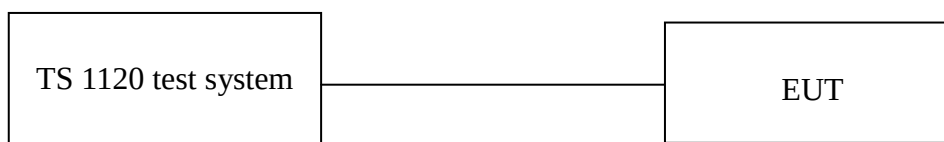
Refer to section 10: Appendix C

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-3	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

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

5.4. Test Procedure

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

5.5. Test Result

Refer to section 10: Appendix D

6.UNWANTED EMISSIONS AND BAND EDGE

6.1.Limit

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

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

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

15.209 Radiated emission limits

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

15.205 Restricted frequency band

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

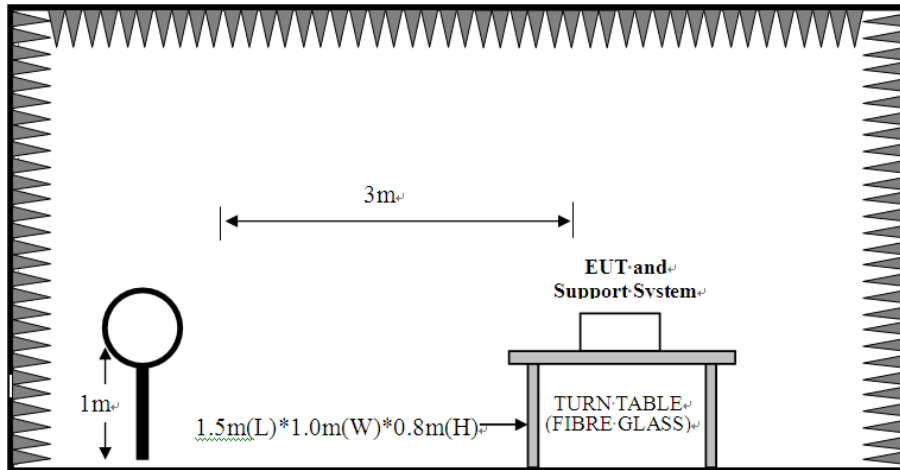
Note:

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

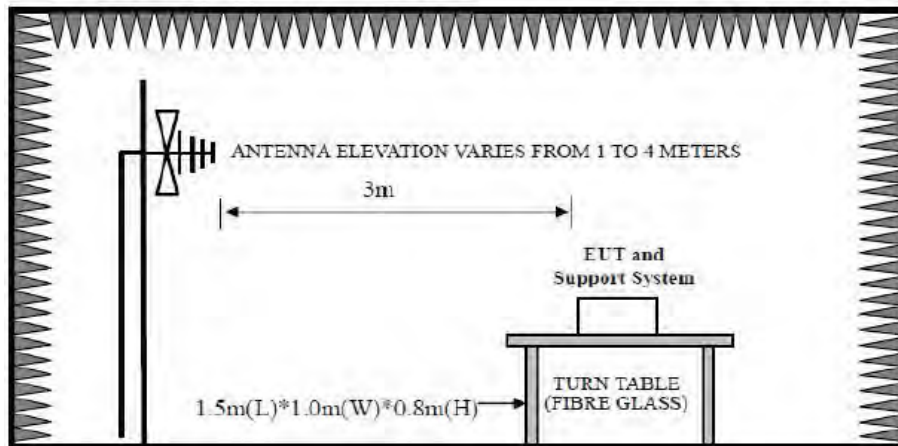
$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log (d[\text{m}]) + 104.77$$
 where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)= $\text{EIRP}-20\log(3)+104.77=\text{EIRP}+95.2$

6.2.Test Setup

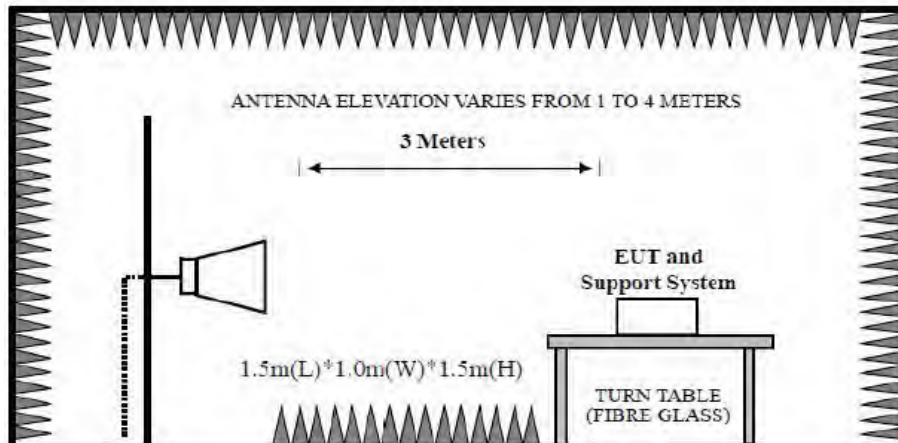
9kHz~30MHz



30~1000MHz



Above 1GHz



6.3.Spectrum Analyzer Setting

For 9KHz-150KHz

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

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

For 150KHz-30MHz

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

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

For 30MHz-1GHz

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

For Above 1GHz

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

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

6.4.Test Procedure

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

6.5.Test Result

Radiated Emissions Below 1GHz

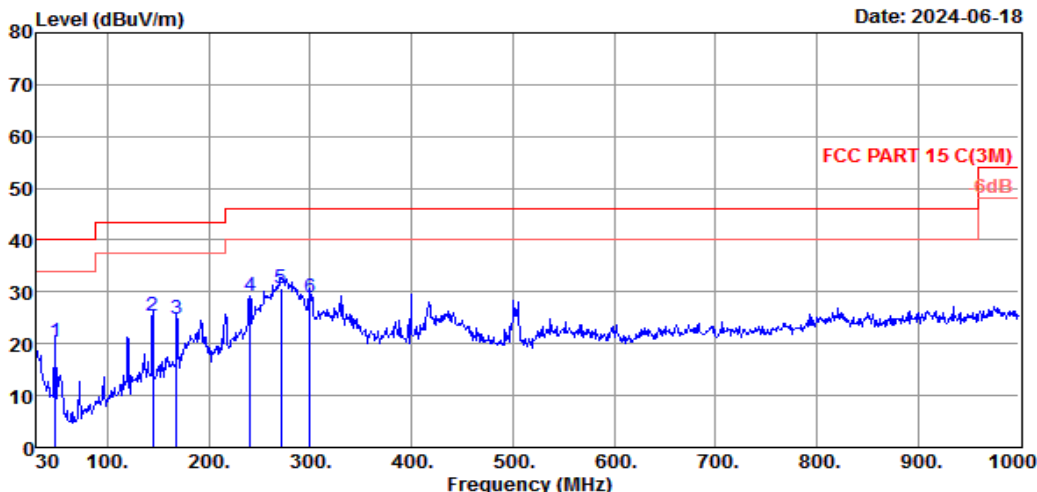
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Data: 23

File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\RS2T58M.EM6 (24)

Date: 2024-06-18



Site no. : 1# 966 Chamber Data no. : 23
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:22.3°C.Humi:60%;Press:101.1KPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
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	48.43	10.50	0.94	9.02	20.46	40.00	19.54	QP
2	144.46	11.60	1.72	12.05	25.37	43.50	18.13	QP
3	167.74	10.50	1.86	12.42	24.78	43.50	18.72	QP
4	240.49	11.18	2.27	15.87	29.32	46.00	16.68	QP
5	271.53	13.57	2.45	14.71	30.73	46.00	15.27	QP
6	299.66	14.20	2.63	12.00	28.83	46.00	17.17	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.

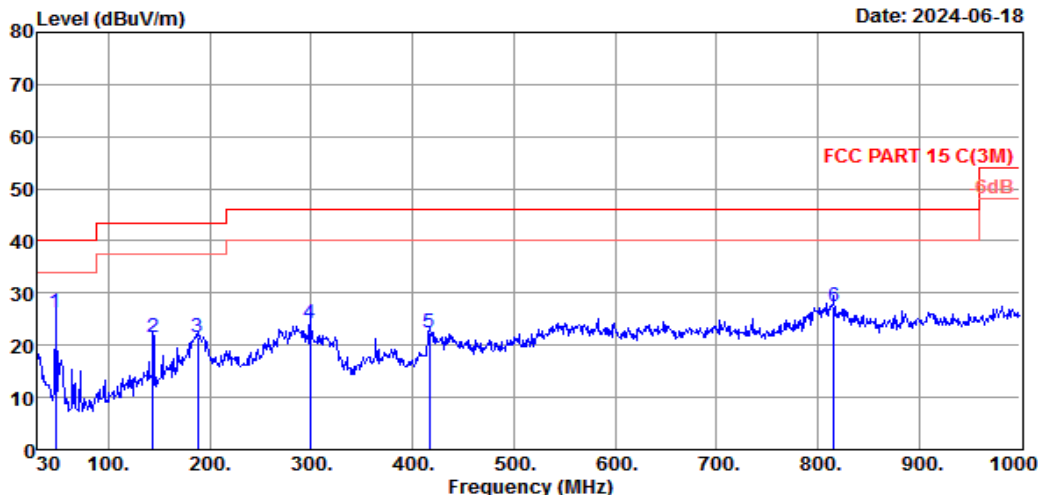
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Data: 24

File: \\EMC-966-1\test data\2024\RF\TCL Dou Mei Ti\RS2T58M.EM6 (24)

Date: 2024-06-18



Site no. : 1# 966 Chamber Data no. : 24
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 C(3M)
Env. / Ins. : Temp:22.3°C.Humi:60%;Press:101.1KPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
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	47.46	10.60	0.92	14.79	26.31	40.00	13.69	QP
2	143.49	11.85	1.71	7.97	21.53	43.50	21.97	QP
3	188.11	8.90	1.98	10.61	21.49	43.50	22.01	QP
4	298.69	14.02	2.62	7.53	24.17	46.00	21.83	QP
5	417.03	16.74	3.12	2.52	22.38	46.00	23.62	QP
6	815.70	24.28	4.56	-1.31	27.53	46.00	18.47	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

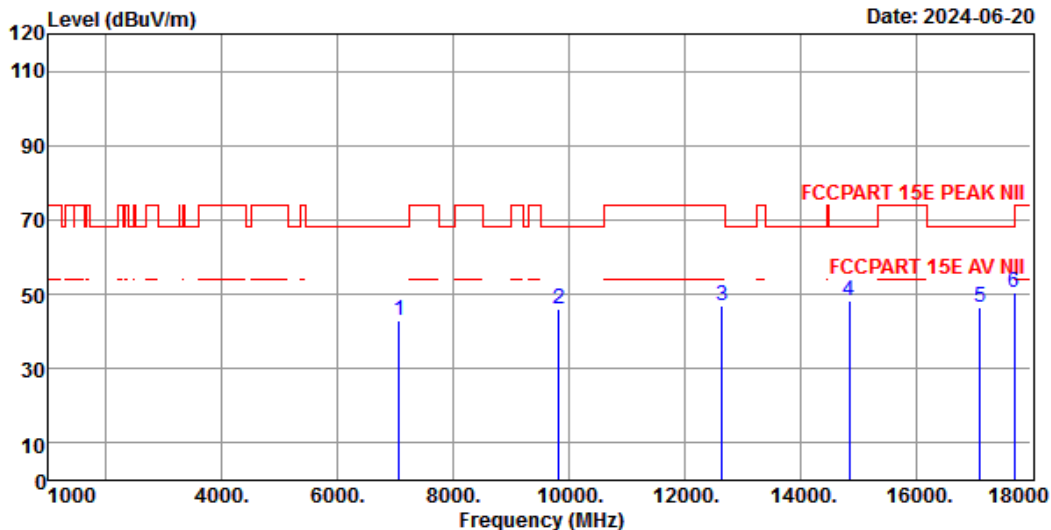
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Data: 127

File: E:\5#966\RF\TTCCL Duo Mei TiRS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : site Data no. : 127
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5155MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7069.00	36.06	7.40	44.09	43.76	43.13	68.20	25.07	Peak
2	9823.00	38.16	8.90	43.73	42.75	46.08	68.20	22.12	Peak
3	12645.00	39.38	10.16	41.30	38.84	47.08	74.00	26.92	Peak
4	14855.00	39.57	10.96	42.92	40.79	48.40	68.20	19.80	Peak
5	17116.00	38.68	11.83	44.02	39.85	46.34	68.20	21.86	Peak
6	17711.00	40.65	12.02	43.13	41.08	50.62	74.00	23.38	Peak

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

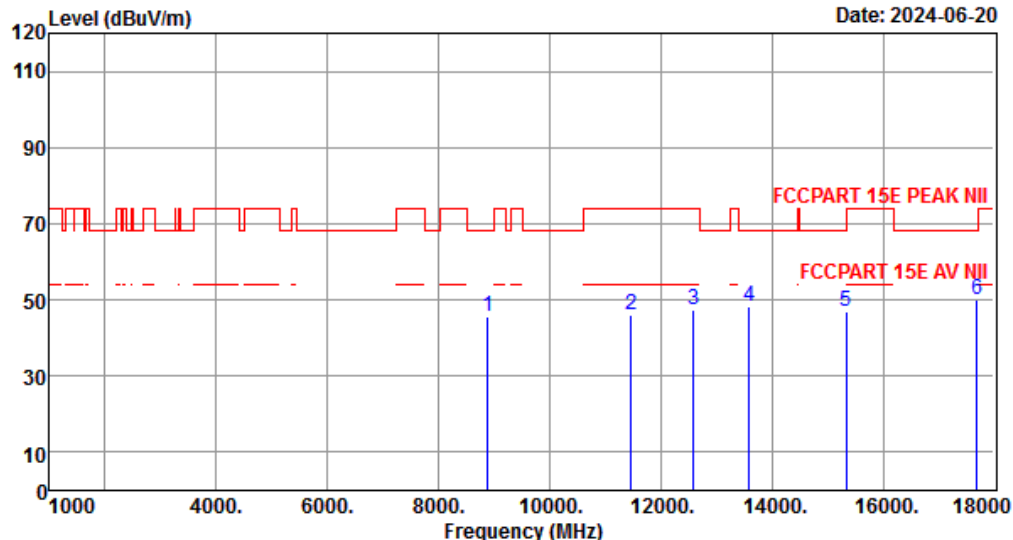
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Data: 128

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 128
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5155MHz

	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	8888.00	37.87	8.41	43.47	42.90	45.71	68.20	22.49	Peak
2	11472.00	38.85	9.67	42.62	40.32	46.22	74.00	27.78	Peak
3	12594.00	39.33	10.13	41.37	39.50	47.59	74.00	26.41	Peak
4	13597.00	39.88	10.51	40.80	38.80	48.39	68.20	19.81	Peak
5	15331.00	38.94	11.13	43.56	40.52	47.03	68.20	21.17	Peak
6	17694.00	40.59	12.02	43.16	40.67	50.12	68.20	18.08	Peak

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

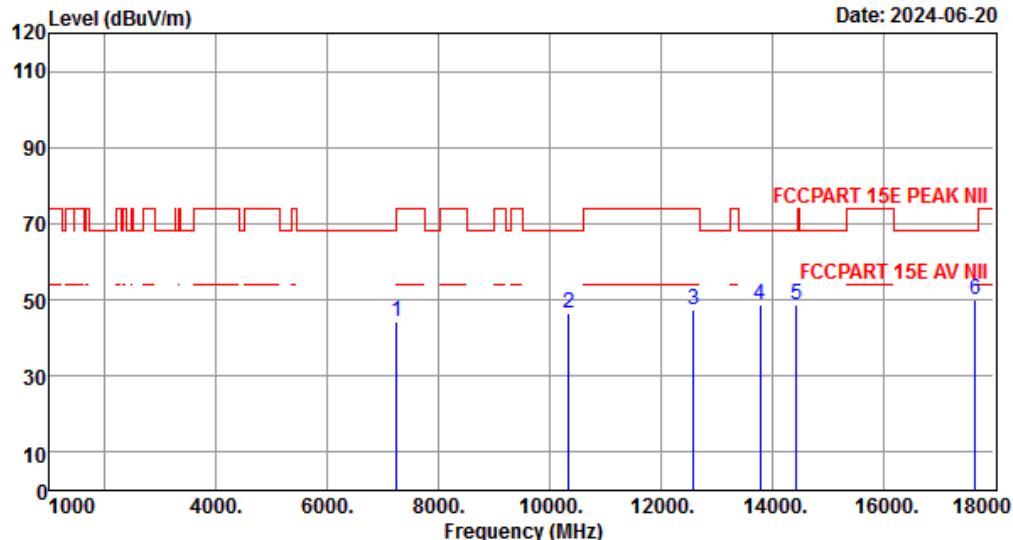
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Data: 129

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 129
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5195MHz

	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	7239.00	36.19	7.50	44.08	44.50	44.11	68.20	24.09	Peak
2	10350.00	38.44	9.17	43.52	42.20	46.29	68.20	21.91	Peak
3	12594.00	39.33	10.13	41.37	39.33	47.42	74.00	26.58	Peak
4	13784.00	39.94	10.58	40.80	38.95	48.67	68.20	19.53	Peak
5	14447.00	39.78	10.81	41.90	40.06	48.75	68.20	19.45	Peak
6	17660.00	40.48	12.00	43.21	40.73	50.00	68.20	18.20	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.

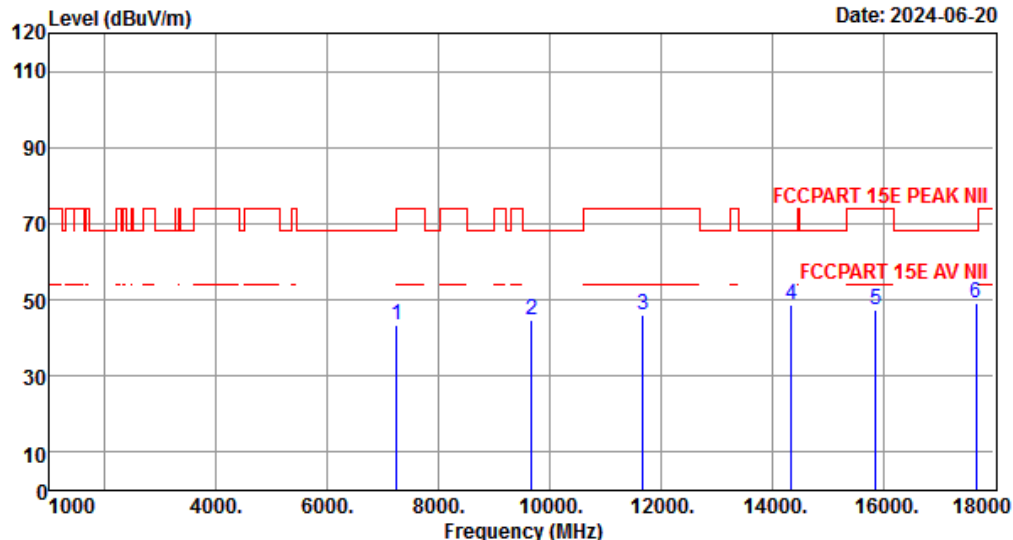
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Data: 130

File: E:\5#966\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 130
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5195MHz

	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	7239.00	36.19	7.50	44.08	43.62	43.23	68.20	24.97	Peak
2	9670.00	38.13	8.82	43.67	41.49	44.77	68.20	23.43	Peak
3	11676.00	38.83	9.75	42.46	40.00	46.12	74.00	27.88	Peak
4	14345.00	39.83	10.77	41.65	39.61	48.56	68.20	19.64	Peak
5	15875.00	38.01	11.36	44.00	41.81	47.18	74.00	26.82	Peak
6	17677.00	40.53	12.02	43.18	39.70	49.07	68.20	19.13	Peak

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

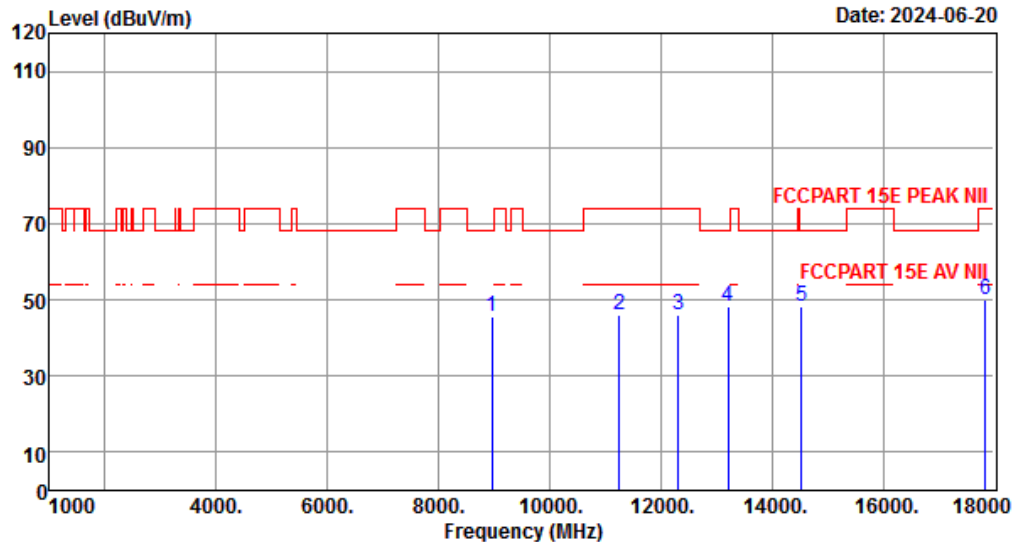
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Data: 131

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 131
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5245MHz

	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	8.44	43.43	42.83	45.79	68.20	22.41	Peak
2	11251.00	38.87	9.57	42.80	40.31	45.95	74.00	28.05	Peak
3	12322.00	39.09	10.03	41.75	38.90	46.27	74.00	27.73	Peak
4	13206.00	39.76	10.37	40.80	39.05	48.38	68.20	19.82	Peak
5	14532.00	39.73	10.84	42.11	39.66	48.12	68.20	20.08	Peak
6	17847.00	41.10	12.08	42.93	39.65	49.90	74.00	24.10	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.

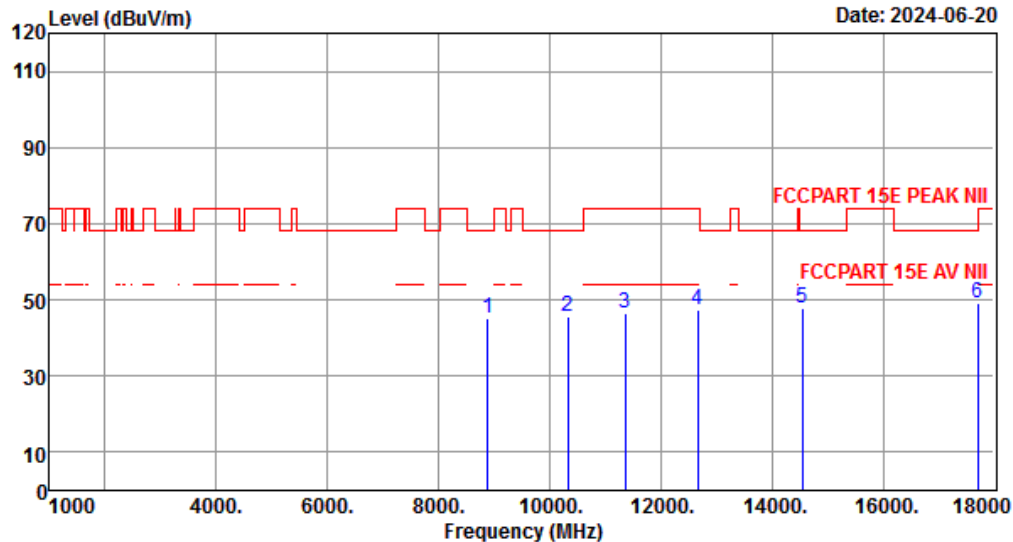
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Data: 132

File: E:\5#966\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 132
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5245MHz

	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	8888.00	37.87	8.41	43.47	42.26	45.07	68.20	23.13	Peak
2	10333.00	38.43	9.15	43.53	41.49	45.54	68.20	22.66	Peak
3	11353.00	38.86	9.63	42.72	40.81	46.58	74.00	27.42	Peak
4	12662.00	39.40	10.16	41.27	39.03	47.32	74.00	26.68	Peak
5	14549.00	39.73	10.84	42.16	39.27	47.68	68.20	20.52	Peak
6	17711.00	40.65	12.02	43.13	39.69	49.23	74.00	24.77	Peak

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

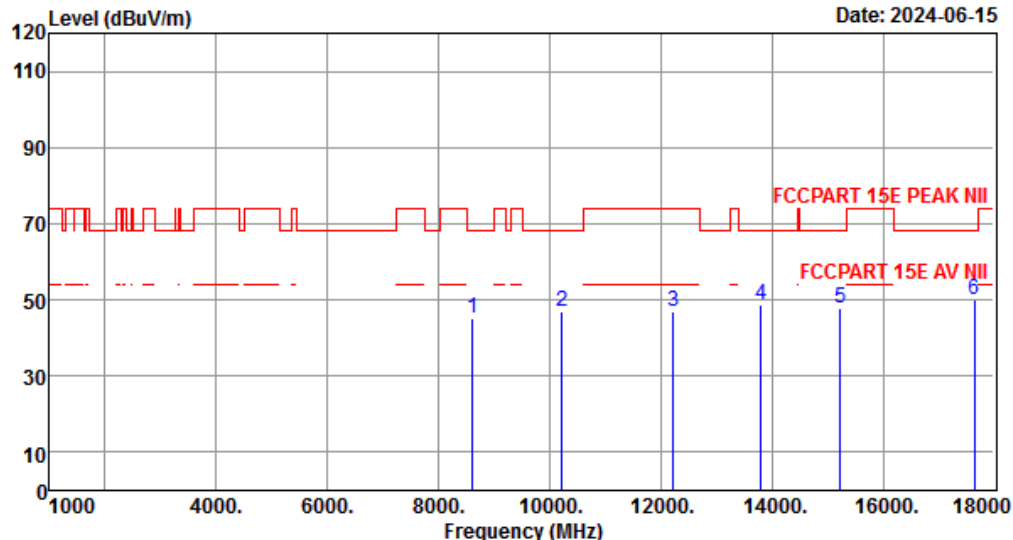
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Data: 133

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-15



Site no. : 5# 966 Chamber Data no. : 133
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5730MHz

	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	8616.00	37.54	8.25	43.63	42.96	45.12	68.20	23.08	Peak
2	10214.00	38.35	9.10	43.62	42.89	46.72	68.20	21.48	Peak
3	12220.00	39.00	9.98	41.89	39.91	47.00	74.00	27.00	Peak
4	13801.00	39.94	10.58	40.80	38.82	48.54	68.20	19.66	Peak
5	15229.00	39.11	11.09	43.48	41.27	47.99	68.20	20.21	Peak
6	17643.00	40.42	12.00	43.23	40.69	49.88	68.20	18.32	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.

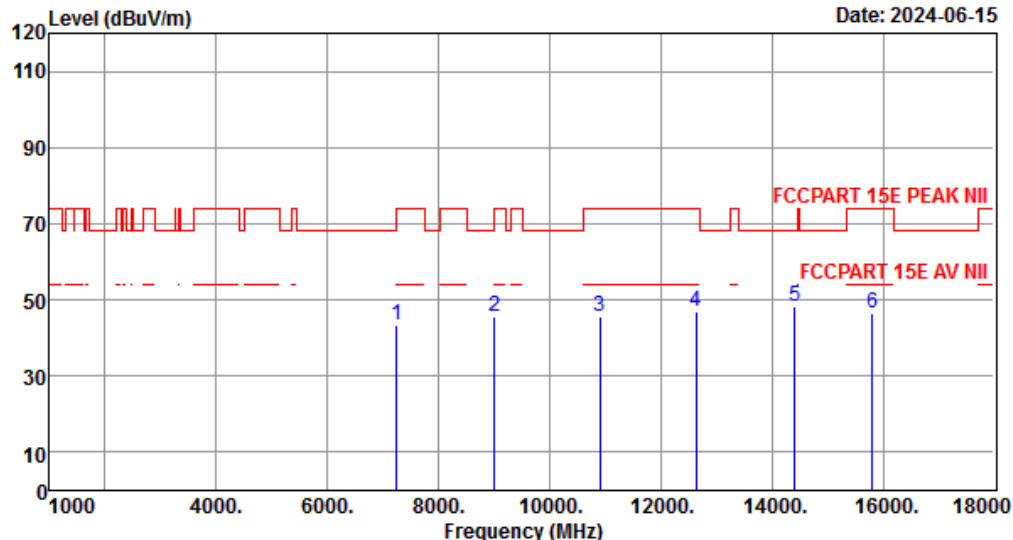
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Data: 134

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-15



Site no. : 5# 966 Chamber Data no. : 134
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5730MHz

	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	7239.00	36.19	7.50	44.08	43.70	43.31	68.20	24.89	Peak
2	9007.00	38.00	8.47	43.40	42.41	45.48	74.00	28.52	Peak
3	10911.00	38.84	9.43	43.07	40.63	45.83	74.00	28.17	Peak
4	12628.00	39.37	10.14	41.32	38.72	46.91	74.00	27.09	Peak
5	14413.00	39.79	10.80	41.82	39.58	48.35	68.20	19.85	Peak
6	15807.00	38.13	11.32	43.95	41.18	46.68	74.00	27.32	Peak

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

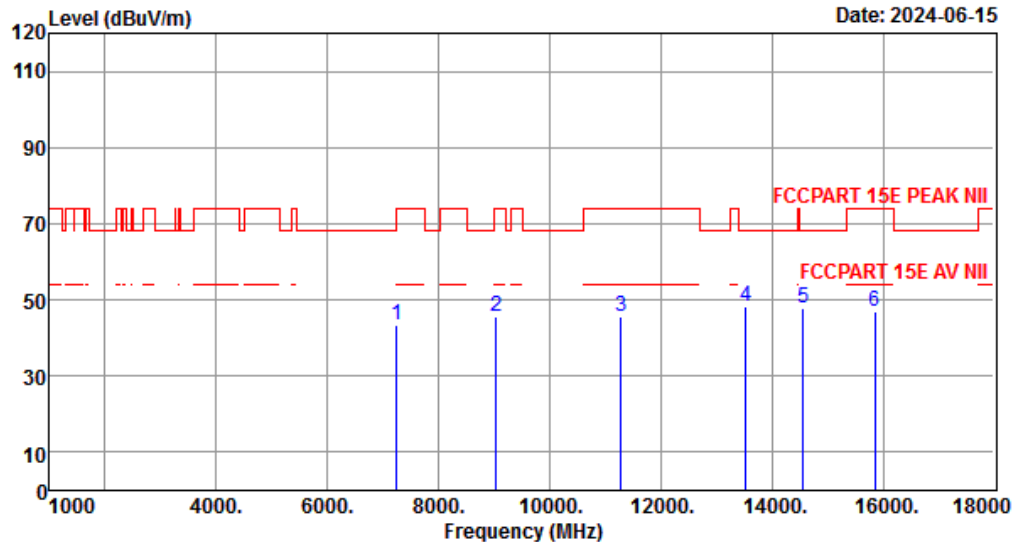
EST Technology

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Data: 135

File: E:\5#966\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-15



Site no. : 5# 966 Chamber Data no. : 135
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5790MHz

	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	7239.00	36.19	7.50	44.08	43.64	43.25	68.20	24.95	Peak
2	9041.00	38.01	8.50	43.41	42.69	45.79	74.00	28.21	Peak
3	11285.00	38.87	9.58	42.77	39.99	45.67	74.00	28.33	Peak
4	13529.00	39.86	10.48	40.80	38.71	48.25	68.20	19.95	Peak
5	14566.00	39.72	10.86	42.20	39.42	47.80	68.20	20.40	Peak
6	15858.00	38.04	11.34	43.99	41.40	46.79	74.00	27.21	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.

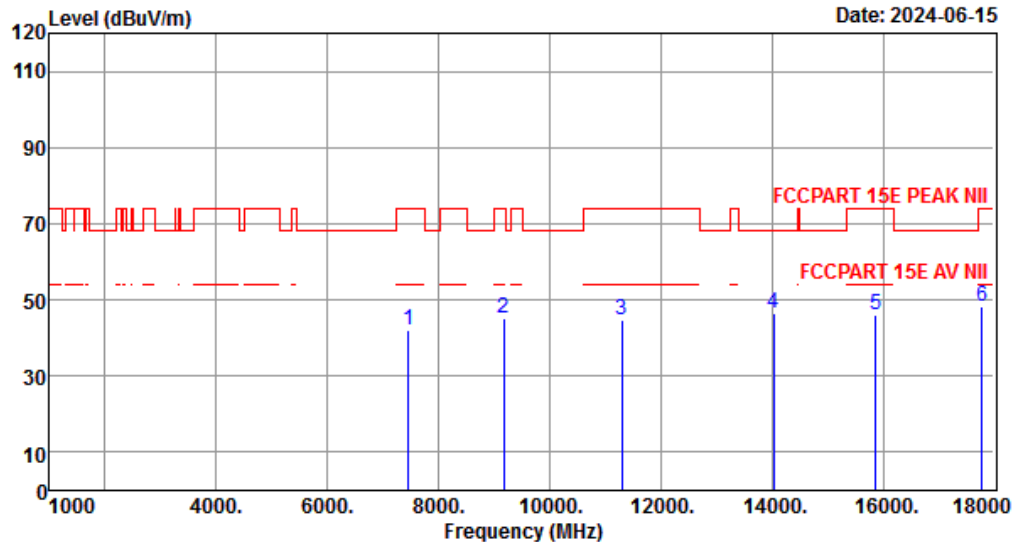
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Data: 136

File: E:\5#966\RF\TCL Duo Mei Ti RS2T58M.EM6 (156)

Date: 2024-06-15



Site no. : 5# 966 Chamber Data no. : 136
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5790MHz

	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	7460.00	36.37	7.61	44.05	42.21	42.14	74.00	31.86	Peak
2	9177.00	38.04	8.57	43.47	41.85	44.99	74.00	29.01	Peak
3	11302.00	38.87	9.60	42.76	38.99	44.70	74.00	29.30	Peak
4	14039.00	39.98	10.67	40.88	36.76	46.53	68.20	21.67	Peak
5	15875.00	38.01	11.36	44.00	40.71	46.08	74.00	27.92	Peak
6	17779.00	40.87	12.06	43.03	38.25	48.15	74.00	25.85	Peak

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

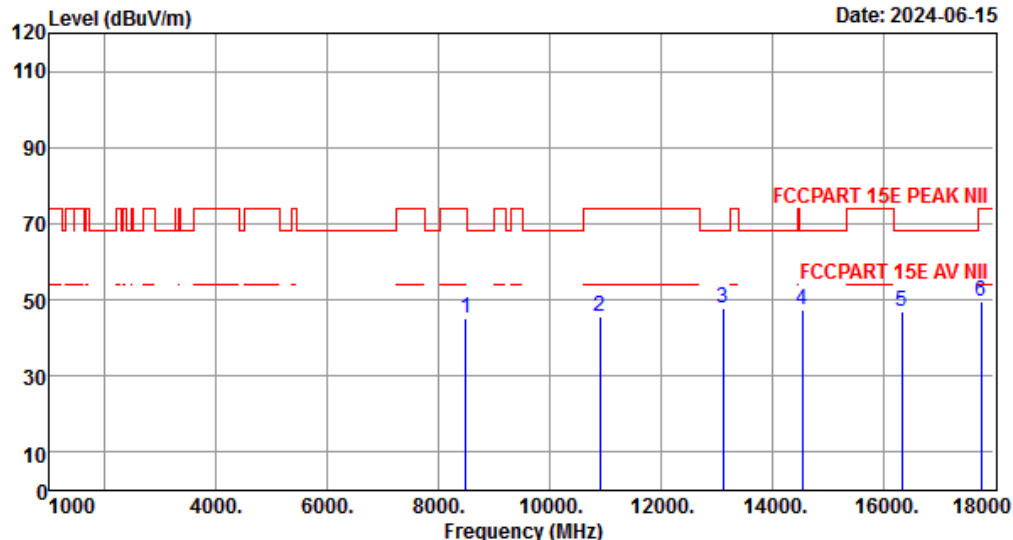
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Data: 137

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-15



Site no. : 5# 966 Chamber Data no. : 137
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
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	8497.00	37.40	8.18	43.71	43.15	45.02	74.00	28.98	Peak
2	10911.00	38.84	9.43	43.07	40.58	45.78	74.00	28.22	Peak
3	13121.00	39.74	10.34	40.80	38.46	47.74	68.20	20.46	Peak
4	14549.00	39.73	10.84	42.16	39.08	47.49	68.20	20.71	Peak
5	16334.00	37.97	11.52	44.13	41.78	47.14	68.20	21.06	Peak
6	17762.00	40.81	12.04	43.06	39.59	49.38	74.00	24.62	Peak

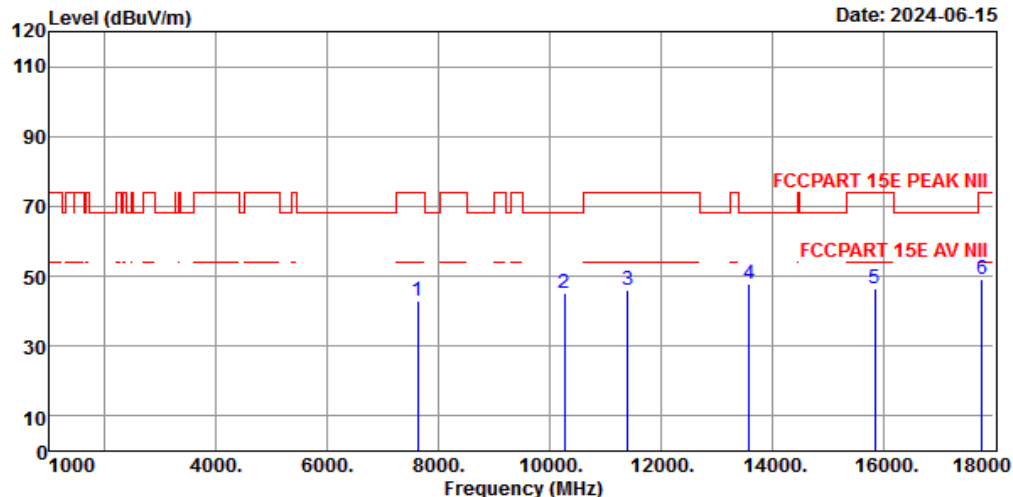
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Data: 138 File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-15



Site no. : 5# 966 Chamber Data no. : 138
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
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	7630.00	36.50	7.70	44.04	42.94	43.10	74.00	30.90	Peak
2	10265.00	38.39	9.13	43.58	41.11	45.05	68.20	23.15	Peak
3	11404.00	38.86	9.64	42.67	40.28	46.11	74.00	27.89	Peak
4	13597.00	39.88	10.51	40.80	38.26	47.85	68.20	20.35	Peak
5	15858.00	38.04	11.34	43.99	40.90	46.29	74.00	27.71	Peak
6	17779.00	40.87	12.06	43.03	39.40	49.30	74.00	24.70	Peak

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

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

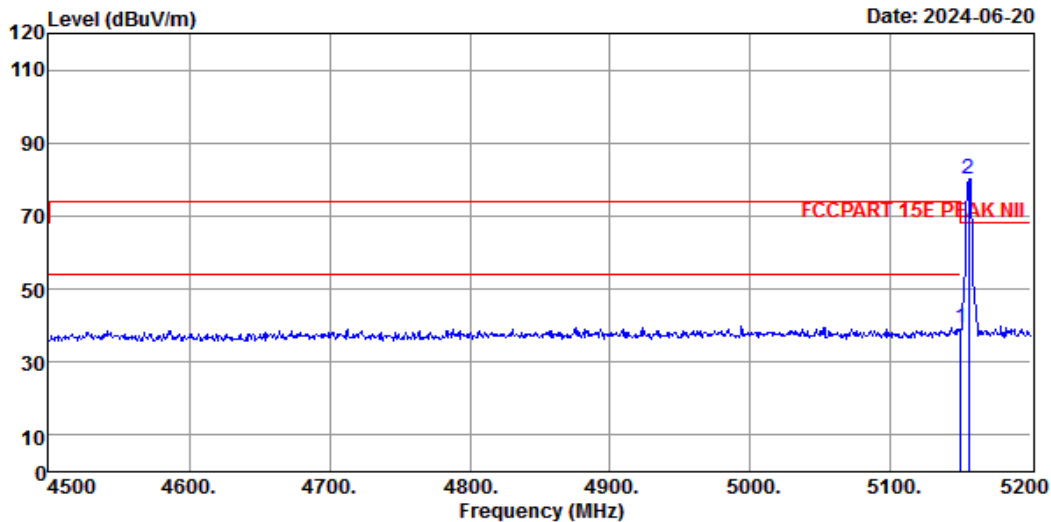
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Data: 123

File: E:\5#966\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 123
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5155MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.97	6.24	44.27	44.59	39.53	68.20	28.67	Peak
2	5155.20	32.97	6.24	44.27	85.42	80.36	68.20	-12.16	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.

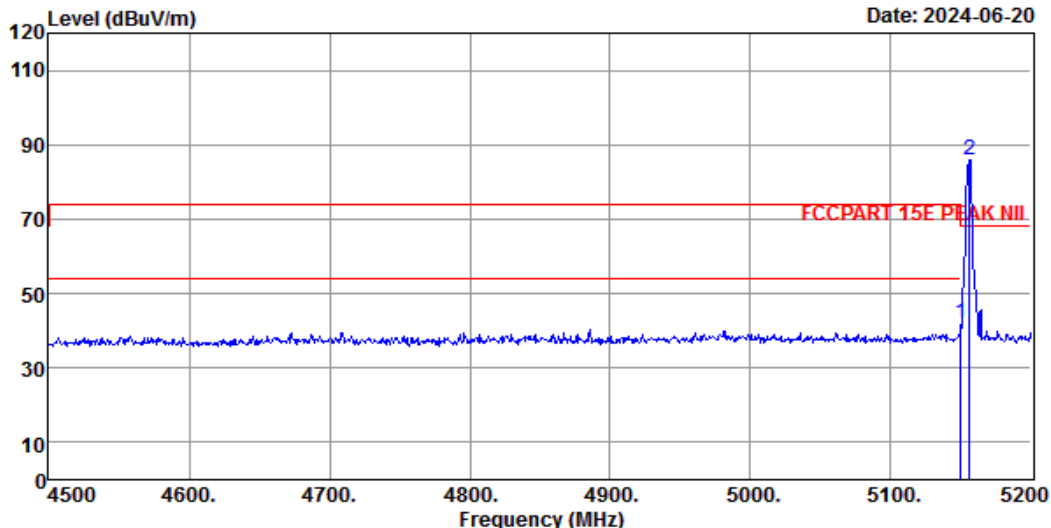
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Data: 124

File: E:\5#966\RF\TCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 124
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5155MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.97	6.24	44.27	47.18	42.12	68.20	26.08	Peak
2	5155.90	32.97	6.24	44.27	90.81	85.75	68.20	-17.55	Peak

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

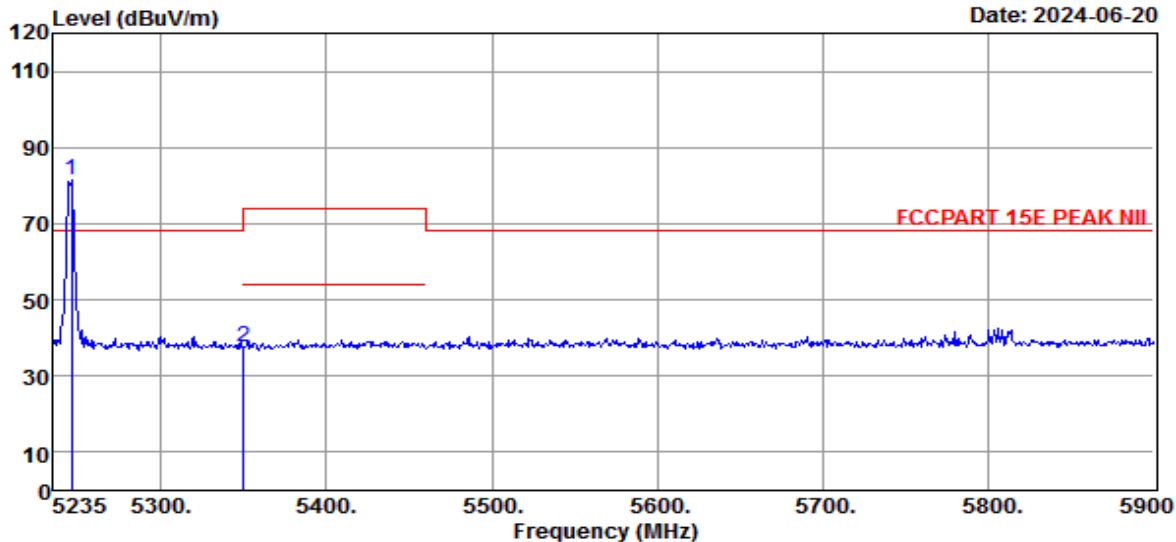
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Data: 125

File: E:\5#966\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 125
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5245MHz

	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	5245.64	33.07	6.30	44.25	86.16	81.28	68.20	-13.08	Peak
2	5350.00	33.19	6.37	44.23	42.37	37.70	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.

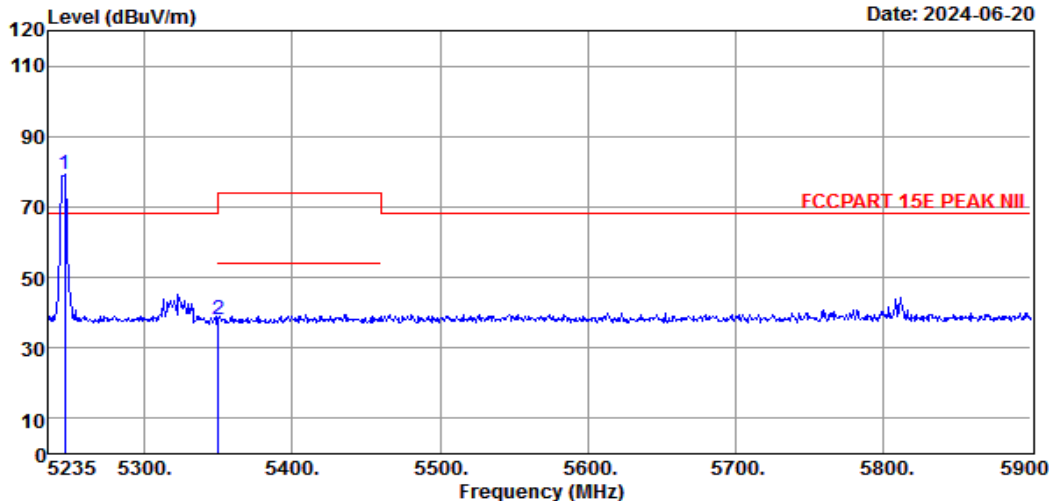
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Data: 126

File: E:\5#966\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (156)

Date: 2024-06-20



Site no. : 5# 966 Chamber Data no. : 126
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : Aron
EUT : Wireless audio module
Power : USB 5V
M/N : RS2T58M
Test Mode : TX 5245MHz

	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	5245.64	33.07	6.30	44.25	83.96	79.08	68.20	-10.88	Peak
2	5350.00	33.19	6.37	44.23	42.61	37.94	68.20	30.26	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.

18000MHz-40000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the
permissible

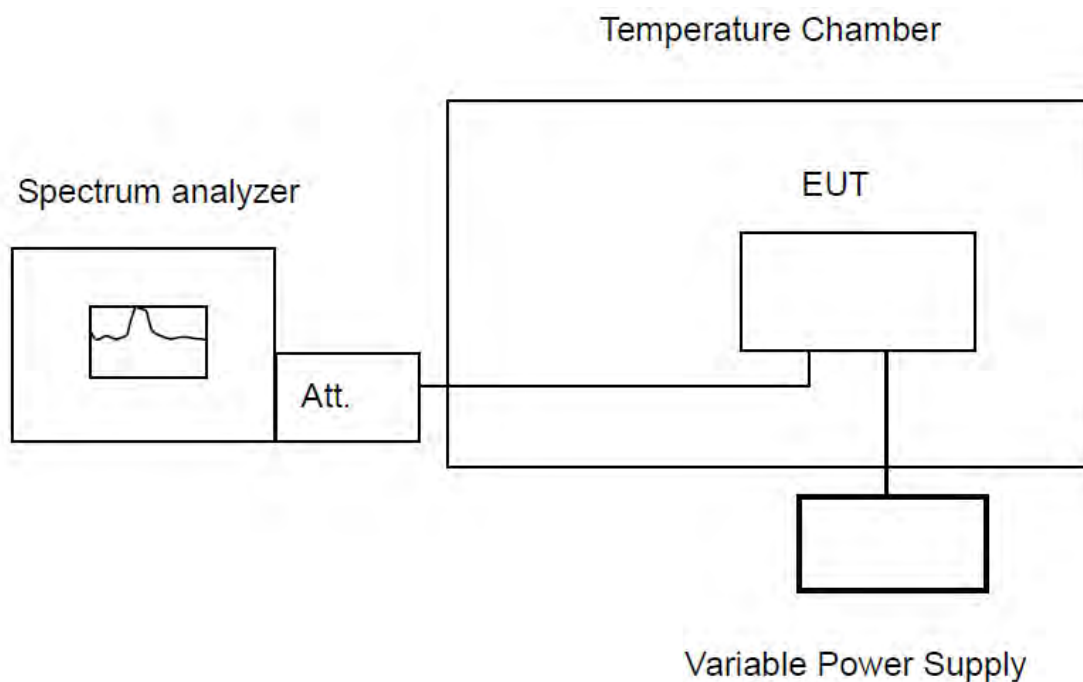
limit has no need to be reported.

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

Refer to section 10: Appendix G

8.AC POWER LINE CONDUCTED EMISSIONS

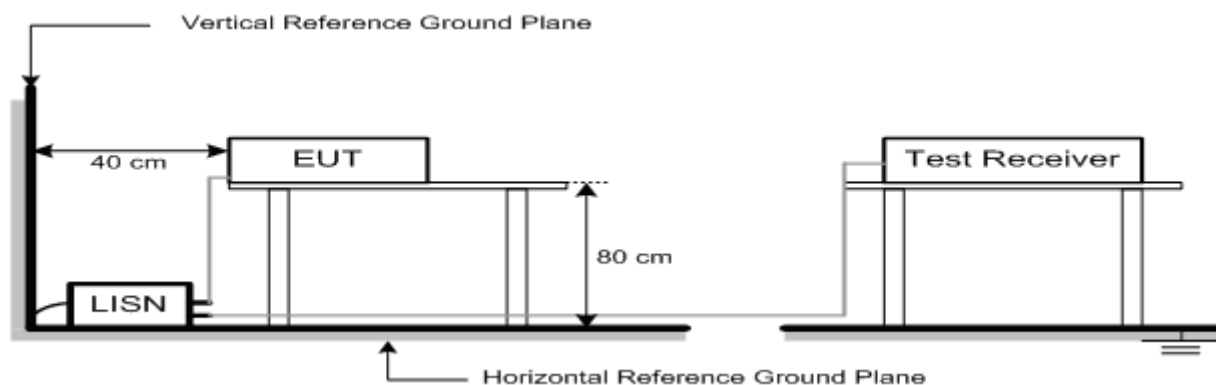
8.1.Limit

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

Notes:

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

8.2.Test Setup



8.3.Spectrum Analyzer Setting

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

8.4.Test Procedure

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

- cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5.Test Result

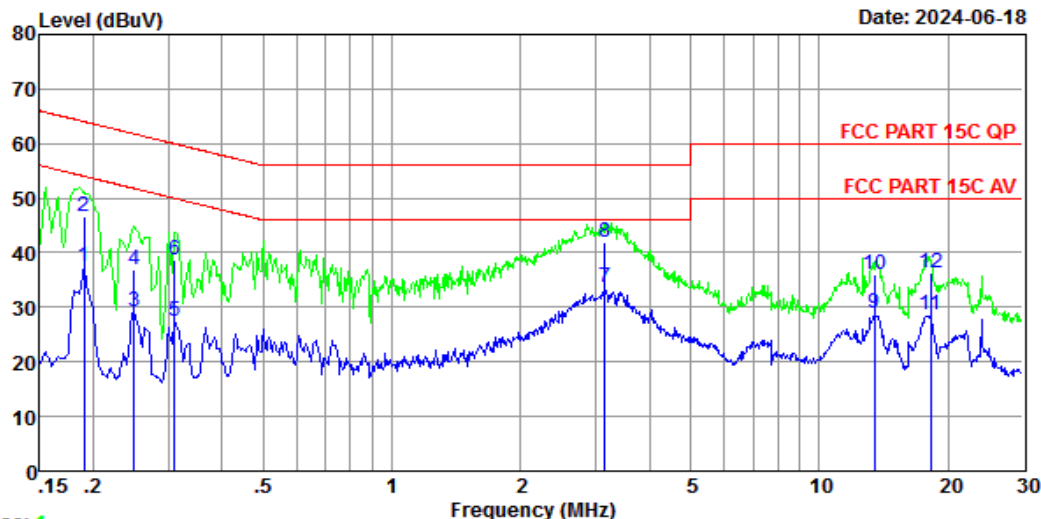
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Data: 2

File: \\EMC-CE-2\Test Data\2024\RF\TITCL Duo Mei Ti\RS2T58M.EM6 (12)

Date: 2024-06-18



Trace: 1

Site no : 2#CE Shield Room Data no. : 2

Env. / Ins. : Temp:22.8℃ Humi:49% Press:101.40kPa LINE Phase : LINE

Limit : FCC PART 15C QP

Engineer : Clare

EUT : Wireless audio module

Power : USB 5V From PC Input AC 120V/60Hz

M/N : RS2T58M

Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.19	10.16	9.93	17.42	37.51	54.02	16.51	Average
2	0.19	10.16	9.93	26.60	46.69	64.02	17.33	QP
3	0.25	10.15	9.95	9.14	29.24	51.78	22.54	Average
4	0.25	10.15	9.95	16.88	36.98	61.78	24.80	QP
5	0.31	10.15	9.87	7.34	27.36	49.97	22.61	Average
6	0.31	10.15	9.87	18.59	38.61	59.97	21.36	QP
7	3.16	9.99	10.00	13.61	33.60	46.00	12.40	Average
8	3.16	9.99	10.00	21.90	41.89	56.00	14.11	QP
9	13.48	10.40	10.03	8.46	28.89	50.00	21.11	Average
10	13.48	10.40	10.03	15.55	35.98	60.00	24.02	QP
11	18.23	10.62	10.21	7.67	28.50	50.00	21.50	Average
12	18.23	10.62	10.21	15.55	36.38	60.00	23.62	QP

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

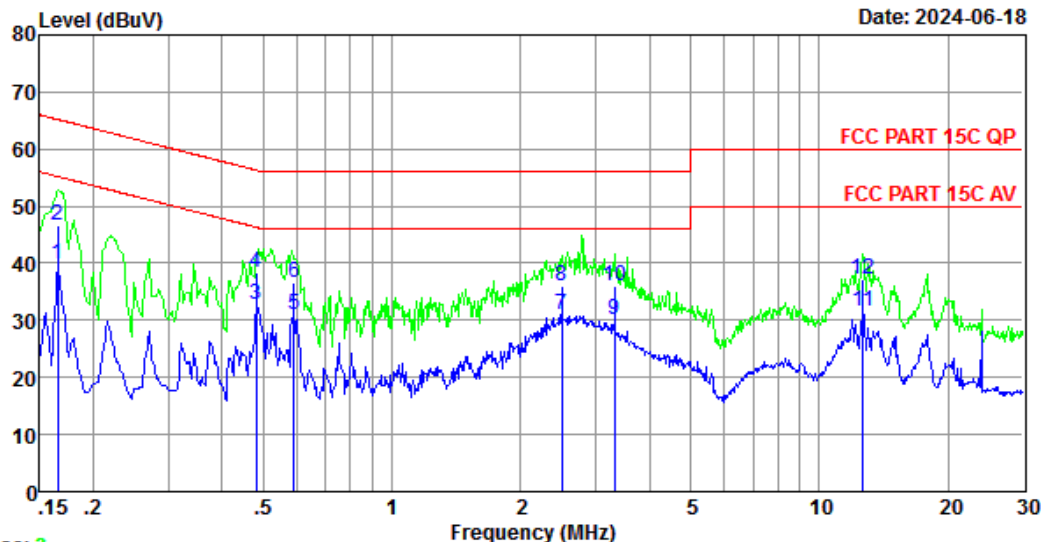
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Data: 4

File: \\EMC-CE-2\Test Data\2024\RF\TTCCL Duo Mei Ti\RS2T58M.EM6 (12)

Date: 2024-06-18



Site no : 2#CE Shield Room Data no. : 4
Env. / Ins. : Temp:22.8℃ Humi:49% Press:101.40kPa LINE Phase : NEUTRAL
Limit : FCC PART 15C QP
Engineer : Clare
EUT : Wireless audio module
Power : USB 5V From PC Input AC 120V/60Hz
M/N : RS2T58M
Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	10.22	9.89	19.82	39.93	55.21	15.28	Average
2	0.17	10.22	9.89	26.59	46.70	65.21	18.51	QP
3	0.48	9.98	9.94	12.78	32.70	46.32	13.62	Average
4	0.48	9.98	9.94	18.43	38.35	56.32	17.97	QP
5	0.59	10.00	9.96	10.92	30.88	46.00	15.12	Average
6	0.59	10.00	9.96	16.58	36.54	56.00	19.46	QP
7	2.50	10.01	10.00	10.97	30.98	46.00	15.02	Average
8	2.50	10.01	10.00	15.95	35.96	56.00	20.04	QP
9	3.31	10.01	10.00	10.03	30.04	46.00	15.96	Average
10	3.31	10.01	10.00	15.93	35.94	56.00	20.06	QP
11	12.65	10.31	10.03	11.37	31.71	50.00	18.29	Average
12	12.65	10.31	10.03	16.84	37.18	60.00	22.82	QP

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

9.ANTENNA REQUIREMENTS

9.1.Limit

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

9.2.Test Result

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

10.APPENDIX

Appendix A1: Emission Bandwidth Test Result

TestMode	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	5155	4.380	5152.840	5157.220	---	---
GFSK	5195	4.470	5192.708	5197.178	---	---
GFSK	5245	4.440	5242.756	5247.196	---	---
GFSK	5730	4.720	5727.630	5732.350	---	---
GFSK	5790	4.800	5787.600	5792.400	---	---
GFSK	5848	2.265	5846.855	5849.120	---	---

Test Graphs

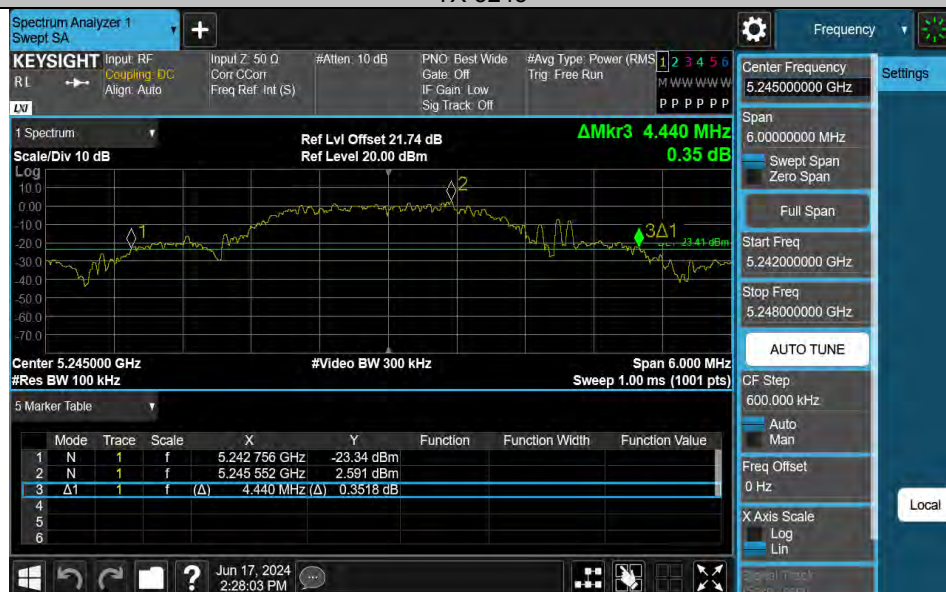
TX-5155



TX-5195



TX-5245



TX-5730



TX-5790



TX-5848



Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	5155	2.4533	5153.7748	5156.2281	---	---
GFSK	5195	2.7590	5193.5370	5196.2960	---	---
GFSK	5245	2.7589	5243.6224	5246.3813	---	---
GFSK	5730	3.8436	5728.0595	5731.9031	---	---
GFSK	5790	3.9148	5788.0411	5791.9559	---	---
GFSK	5848	1.3484	5847.3309	5848.6793	---	---

Test Graphs

TX-5155



TX-5195



TX-5245



The screenshot displays a Spectrum Analyzer interface. At the top, the title bar reads "Spectrum Analyzer 1" and "Occupied BW". Below this, the "KEYSIGHT" logo is visible. The main display area shows a signal trace with a peak labeled "Mkr1" at 5.728130000 GHz and 1.92 dBm. The trace is plotted on a grid with a logarithmic scale. The x-axis represents frequency, and the y-axis represents power in dBm. The peak is marked with a green dot and a label "Mkr1". The trace shows a signal with a bandwidth of 300.00 kHz. The center frequency is 5.730000 GHz, and the resolution bandwidth (Res BW) is 100.00 kHz. The span is 10 MHz, and the sweep time is 1.00 ms (1001 pts). The trace is labeled "Scale/Div 10.0 dB". The peak is also labeled "Ref Lvl Offset 22.14 dB" and "Ref Value 20.00 dBm". The trace is labeled "Occupied Bandwidth" and "Measure Trace". The trace is labeled "Total Power" and "11.9 dBm". The trace is labeled "% of OBW Power" and "99.00 %". The trace is labeled "x dB" and "-26.00 dB".

Spectrum Analyzer 1
Occupied BW

KEYSIGHT Input: RF Output: Calibration: DC Align: Auto
 RL: →← Input Z: 50 Ω Corr: Corr Freq Ref: Int (S)
 Att'n: 10 dB Trig: Free Run Gate: Off #IF Gain: Low
 Center Freq: 5.790000000 GHz Avg/Hold: 100/100
 Radio Std: None

Frequency Settings
 Center Frequency: 5.790000000 GHz
 Span: 10.000 MHz
 CF Step: 1.0000000 MHz
☒ Auto ☐ Man
 Freq Offset: 0 Hz

1 Graph
 Scale/Div 10.0 dB
 Log
 Ref Lvl Offset 21.91 dB
 Ref Value 20.00 dBm
Mkr1 5.790790000 GHz 0.23 dBm
 Center 5.790000 GHz
 #Res BW 100.00 kHz
 #Video BW 300.00 kHz
 Span 10 MHz
 Sweep 1.00 ms (1001 pts)

2 Metrics

Occupied Bandwidth		Measure Trace Trace 1	
3.9148 MHz		Total Power:	9.88 dBm
Transmit Freq Error	-1.546 kHz	% of OBW Power	99.00 %
x dB Bandwidth	5.231 MHz	x dB	-26.00 dB

The screenshot displays the Keysight Spectrum Analyzer software interface. The main display area shows a spectral plot with a yellow trace. A specific signal is highlighted with a green label: **Mkr1 5.848315000 GHz -7.43 dBm**. The plot's vertical axis is labeled 'Log' and ranges from -70.0 to 10.0. The horizontal axis is labeled 'Center 5.848000 GHz' and 'Span 5 MHz'. The resolution bandwidth is set to '#Res BW 100.00 kHz' and the video bandwidth is '#Video BW 300.00 kHz'. The sweep rate is 'Sweep 1.00 ms (1001 pts)'.

On the right side, there are several control panels:

- Frequency:** Center Frequency is set to 5.848000000 GHz.
- Span:** Span is set to 5.0000 MHz.
- CF Step:** CF Step is set to 500.000 kHz.
- Auto Man:** A toggle switch is currently set to 'Auto'.
- Freq Offset:** Freq Offset is set to 0 Hz.

At the bottom, there are two measurement panels:

- Occupied Bandwidth:** Shows a value of 1.3484 MHz.
- Transmit Freq Error:** Shows a value of 5.067 kHz.
- x dB Bandwidth:** Shows a value of 2.266 MHz.
- Measure Trace:** A button to measure the selected trace.
- Trace 1:** A button to select the first trace.
- Total Power:** Shows a value of -0.18 dBm.
- % of OBW Power:** Shows a value of 99.00 %.
- x dB:** Shows a value of -26.00 dB.

The bottom status bar shows the date and time: 'Jun 12, 2024 1:19:40 PM'.

Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
GFSK	5730	2.180	5728.960	5731.140	0.5	PASS
GFSK	5790	2.110	5788.950	5791.060	0.5	PASS
GFSK	5848	0.905	5847.535	5848.440	0.5	PASS

Test Graphs B4

TX-5730-PASS



TX-5790-PASS



TX-5848-PASS

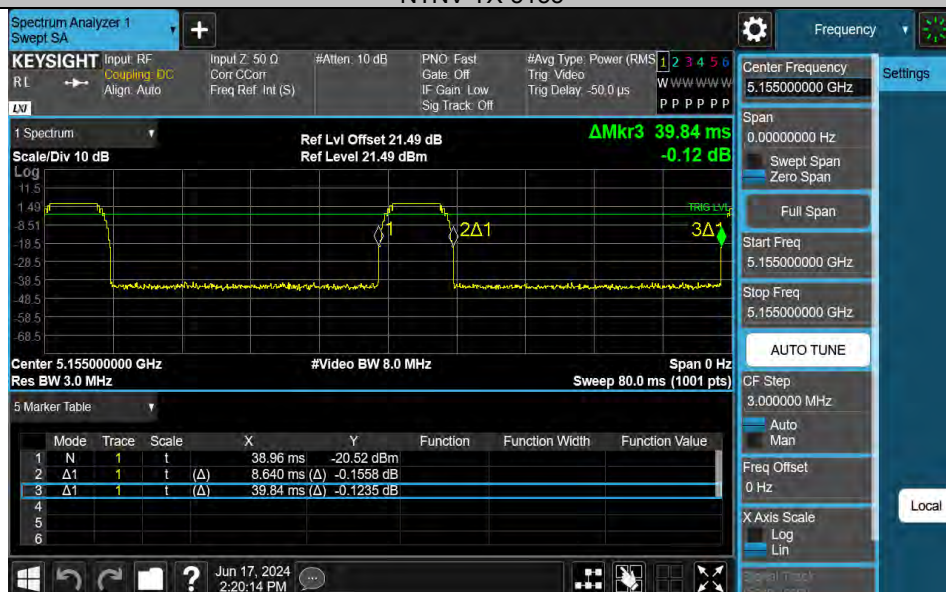


Appendix B: Duty Cycle Test Result

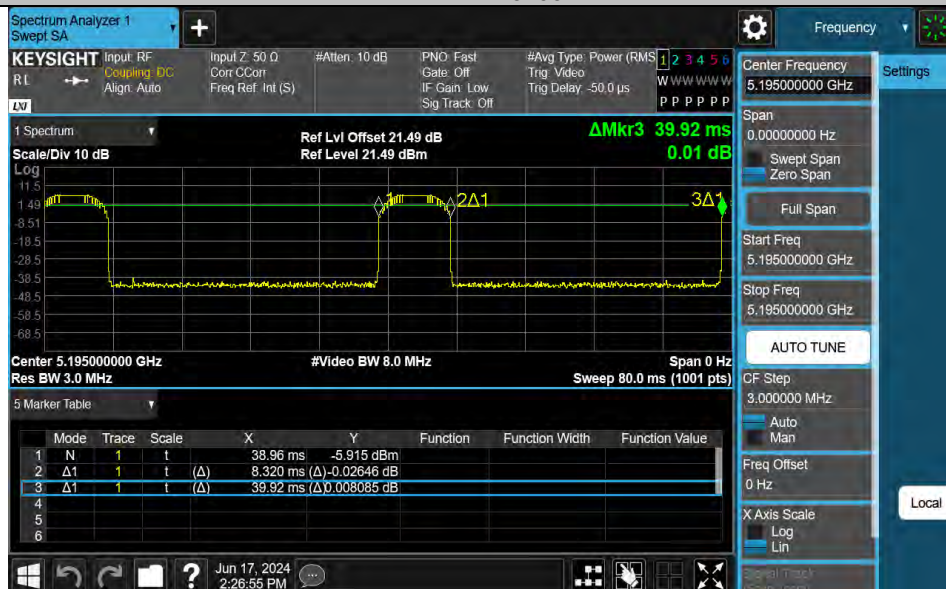
TestMode	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
GFSK	5155	8.64	39.84	21.69
GFSK	5195	8.32	39.92	20.84
GFSK	5245	8.32	39.92	20.84
GFSK	5730	8.32	39.84	20.88
GFSK	5790	8.33	39.83	20.91
GFSK	5848	20.00	20.00	100.00

Test Graphs

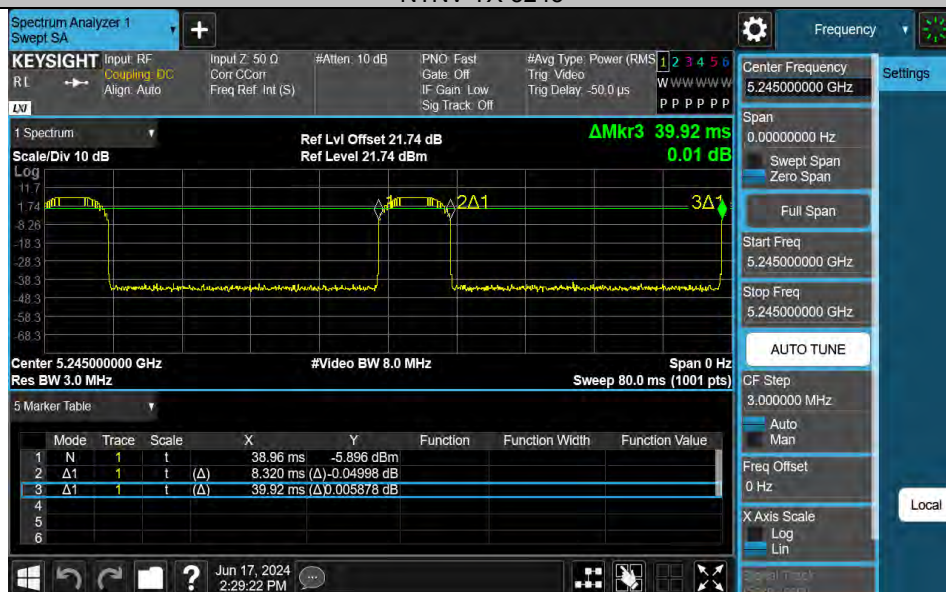
NTNV-TX-5155



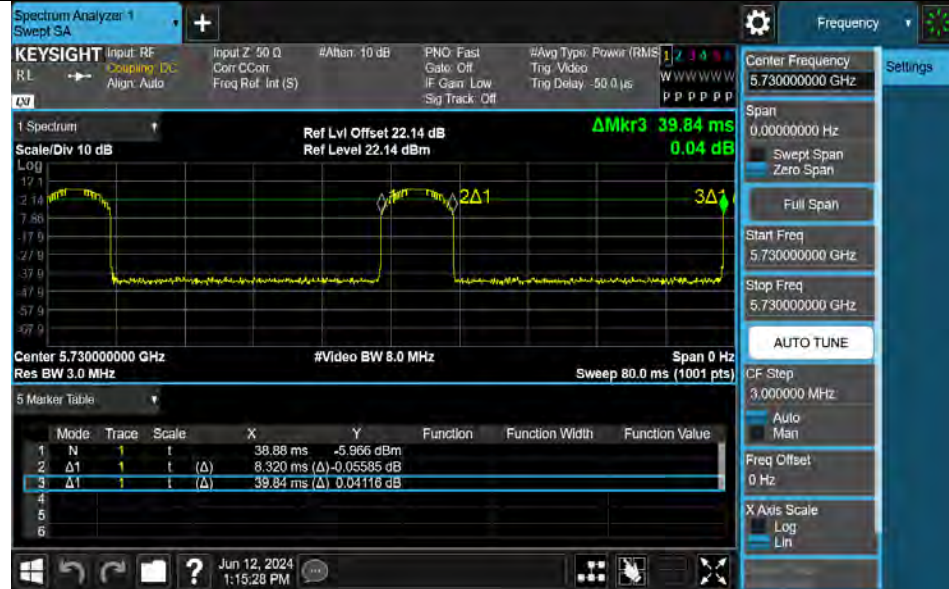
NTNV-TX-5195



NTNV-TX-5245



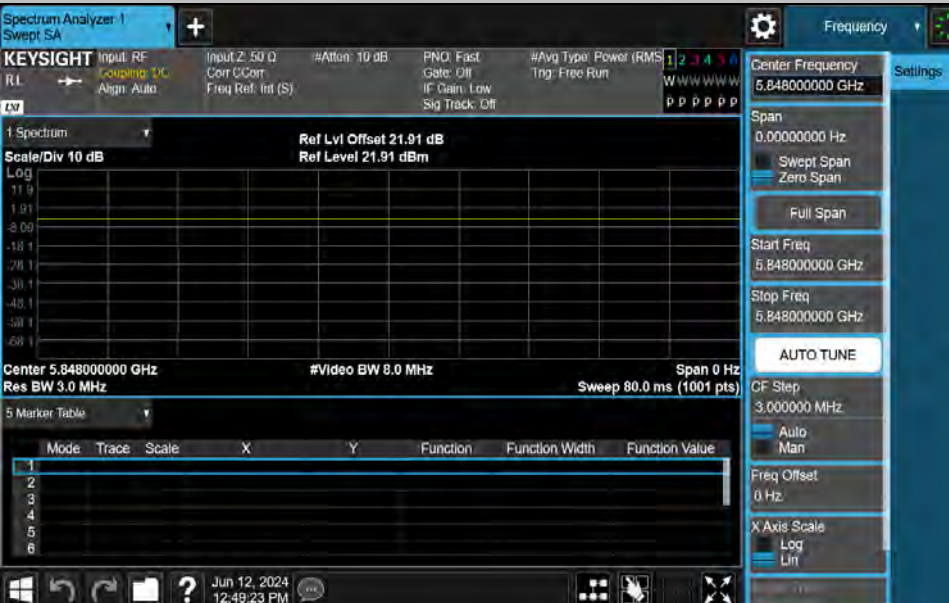
NTNV-TX-5730



NTNV-TX-5790



NTNV-TX-5848



Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
GFSK	5155	1.95	≤23.98	PASS
GFSK	5195	6.00	≤23.98	PASS
GFSK	5245	6.61	≤23.98	PASS
GFSK	5730	7.88	≤23.98	PASS
GFSK	5790	7.58	≤23.98	PASS
GFSK	5848	-4.12	≤23.98	PASS

Test Graphs Peak

TX-5155-PASS



TX-5195-PASS



TX-5245-PASS



TX-5730-PASS



TX-5790-PASS



TX-5848-PASS



Appendix D: Maximum power spectral density

Test Result

TestMode	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
GFSK	5155	-0.97	≤ 11.00	PASS
GFSK	5195	0.20	≤ 11.00	PASS
GFSK	5245	1.78	≤ 11.00	PASS
GFSK	5730	0.12	≤ 30.00	PASS
GFSK	5790	-1.58	≤ 30.00	PASS
GFSK	5848	-9.13	≤ 30.00	PASS

Note : 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

TX-5155-PASS



TX-5195-PASS



TX-5245-PASS



TX-5730-PASS



TX-5790-PASS



TX-5848-PASS



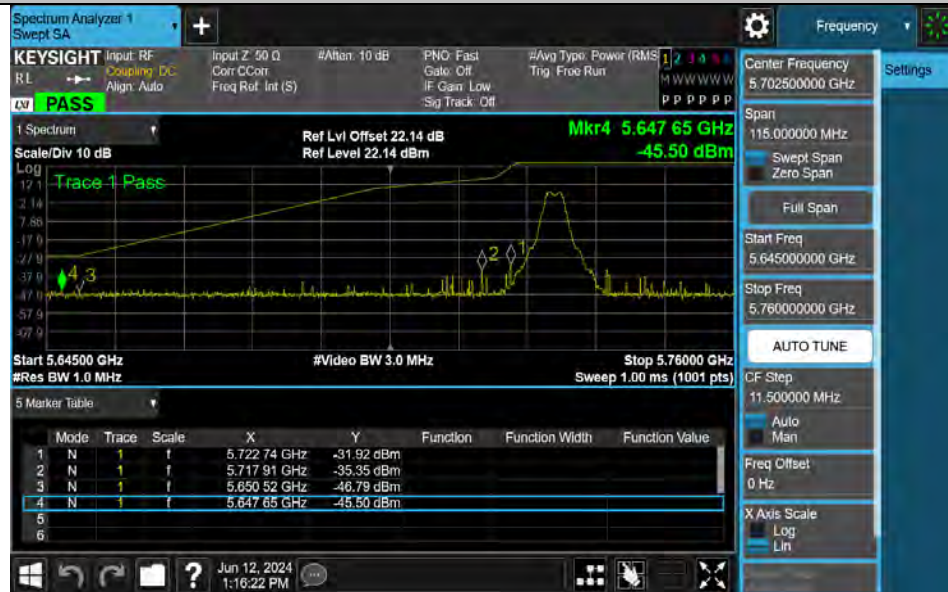
Appendix E: Band edge measurements

Test Result B4

TestMode	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
GFSK	Low	5730	5720~5725	-31.92	≤ 21.85	PASS
GFSK	Low	5730	5700~5720	-35.35	≤ 15.01	PASS
GFSK	Low	5730	5650~5700	-46.79	≤ -26.62	PASS
GFSK	Low	5730	5760~5650	-45.5	≤ -27	PASS
GFSK	High	5848	5850~5855	-30.95	≤ 26.81	PASS
GFSK	High	5848	5855~5875	-44.92	≤ 10.25	PASS
GFSK	High	5848	5875~5925	-45.93	≤ -26.31	PASS
GFSK	High	5848	5925~5935	-45.66	≤ -27	PASS

Test Graphs B4

TX-5730-PASS



TX-5848-PASS



Appendix G: Frequency Stability Test Result

TestMode	Frequency[MHz]	Voltage[Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GFSK	5155	NV	NT	-18000.00	-3.491756	20	PASS
GFSK	5155	LV	NT	-18000.00	-3.491756	20	PASS
GFSK	5155	HV	NT	-18000.00	-3.491756	20	PASS
GFSK	5730	NV	NT	-15000.00	-2.617801	20	PASS
GFSK	5730	LV	NT	-15000.00	-2.617801	20	PASS
GFSK	5730	HV	NT	-15000.00	-2.617801	20	PASS

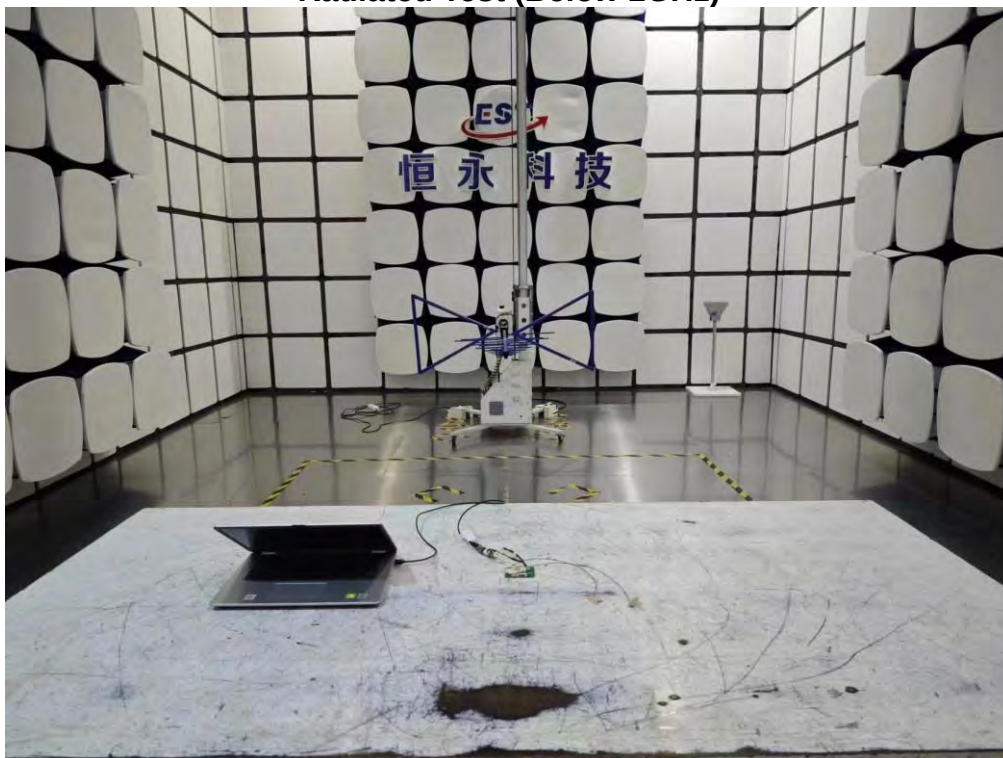
TestMode	Frequency[MHz]	Voltage[Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GFSK	5155	NV	-30	-18000.00	-3.491756	20	PASS
GFSK	5155	NV	-20	-18000.00	-3.491756	20	PASS
GFSK	5155	NV	-10	-18000.00	-3.491756	20	PASS
GFSK	5155	NV	0	-18000.00	-3.491756	20	PASS
GFSK	5155	NV	10	-18000.00	-3.491756	20	PASS
GFSK	5155	NV	20	-18000.00	-3.491756	20	PASS
GFSK	5155	NV	30	-24000.00	-4.655674	20	PASS
GFSK	5155	NV	40	-24000.00	-4.655674	20	PASS
GFSK	5155	NV	50	-24000.00	-4.655674	20	PASS
GFSK	5730	NV	-30	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	-20	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	-10	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	0	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	10	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	20	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	30	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	40	-15000.00	-2.617801	20	PASS
GFSK	5730	NV	50	-15000.00	-2.617801	20	PASS

11. TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)

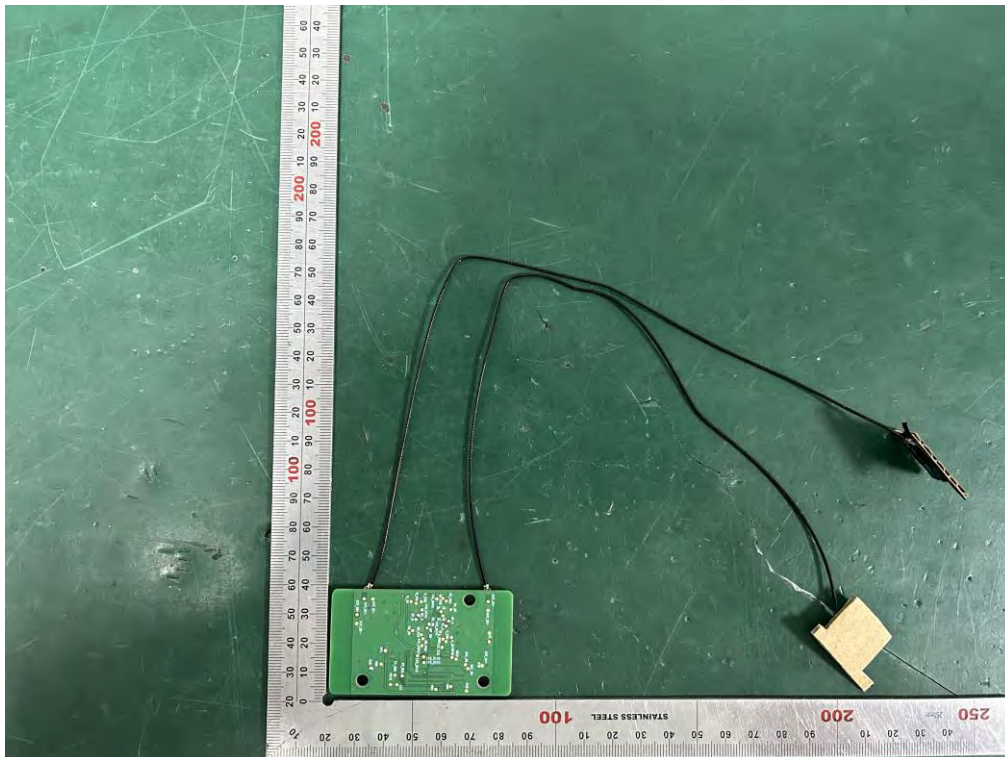
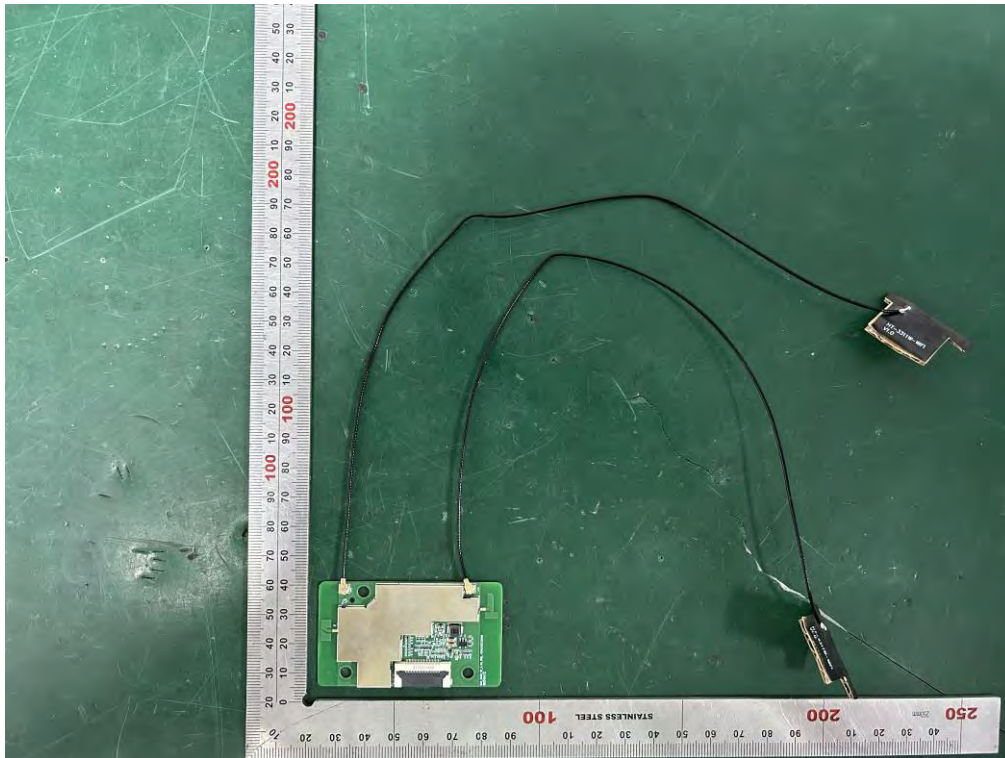


Radiated Test (Above 1GHz)

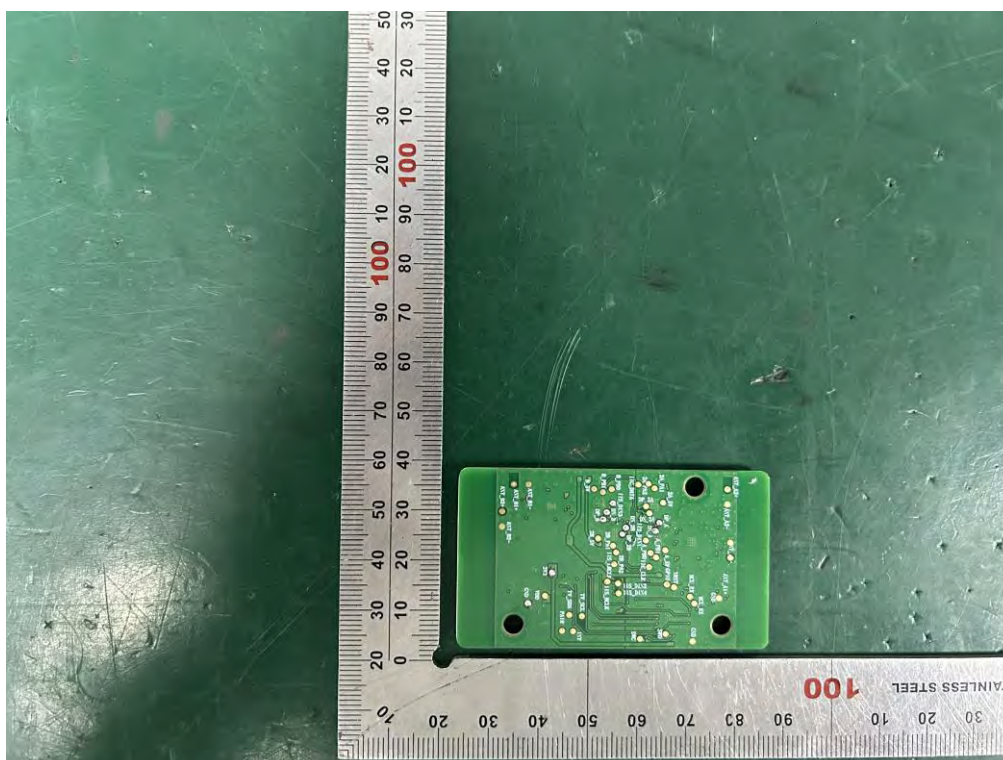
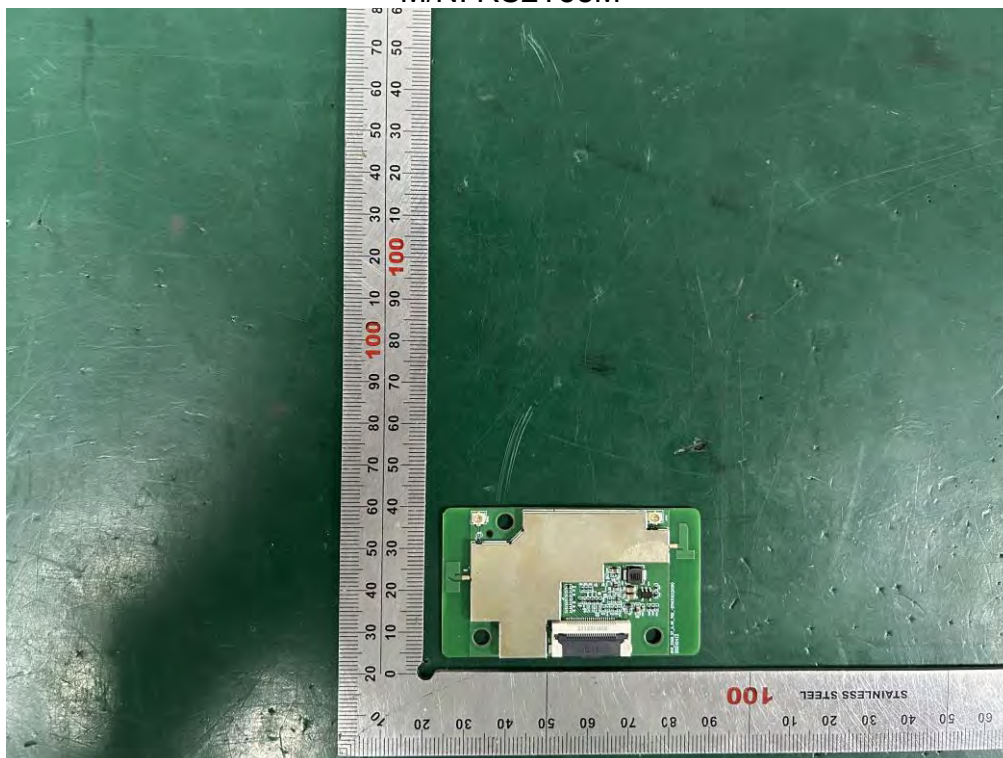


12. EUT PHOTO

External Photos M/N: RS2T58M

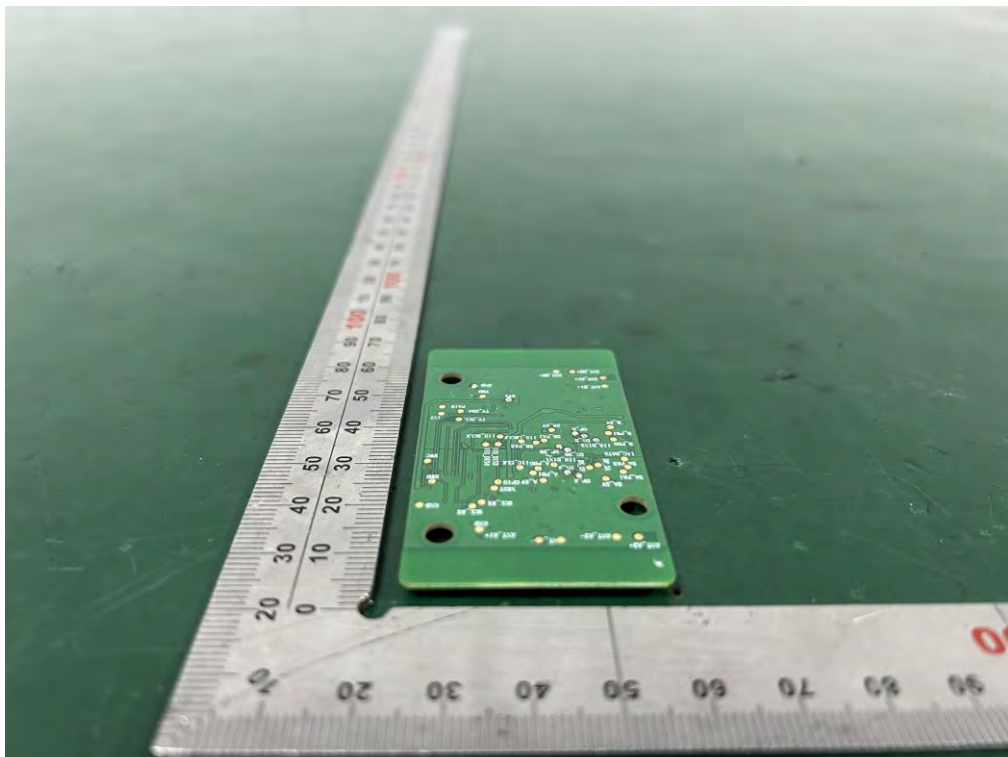
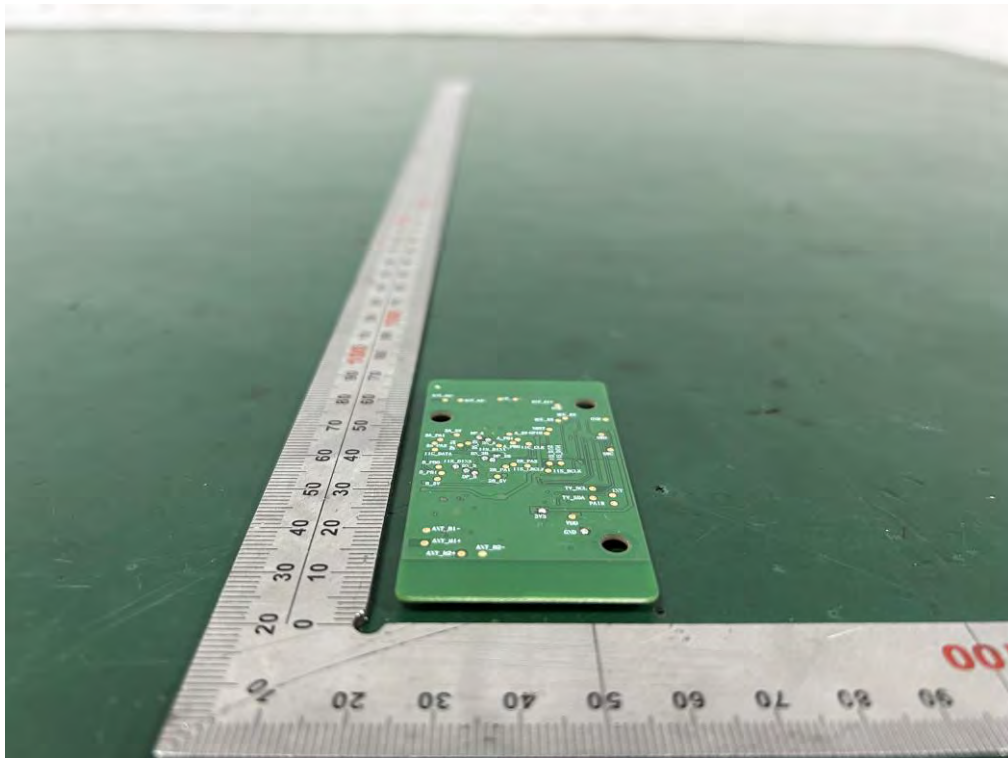


External Photos M/N: RS2T58M

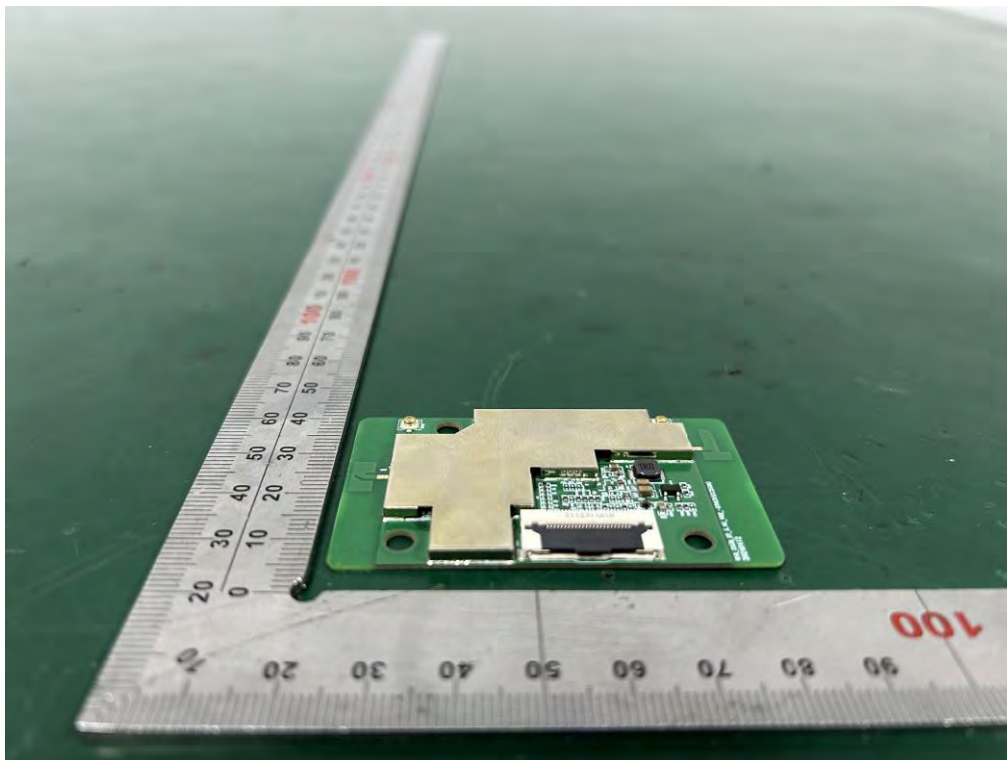
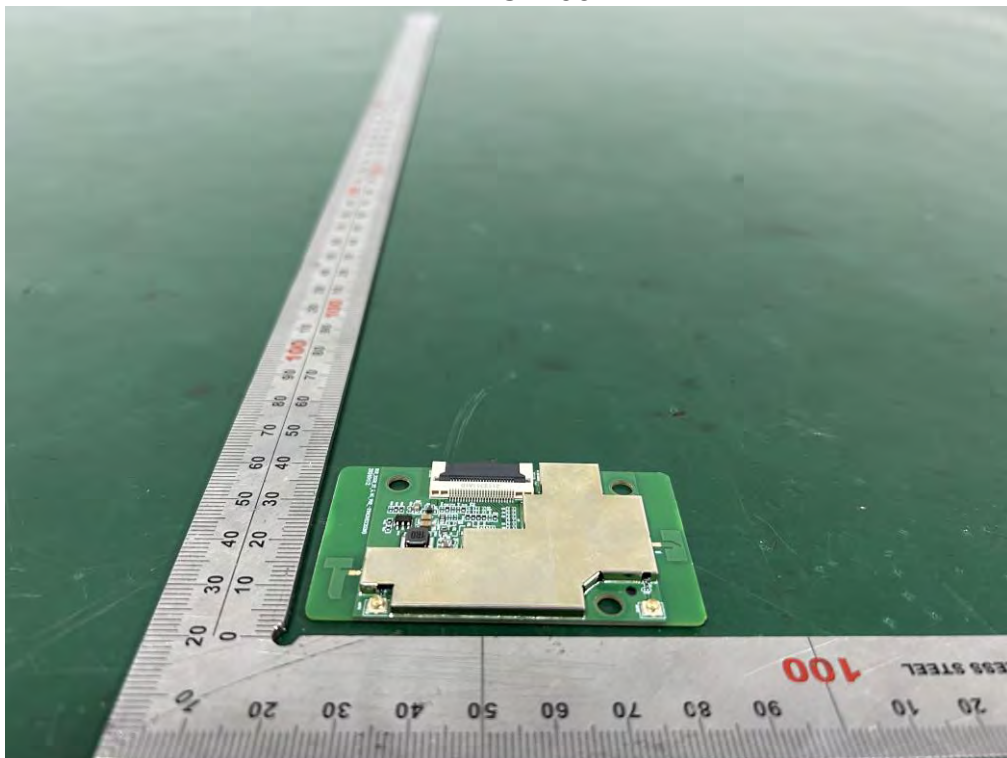


External Photos

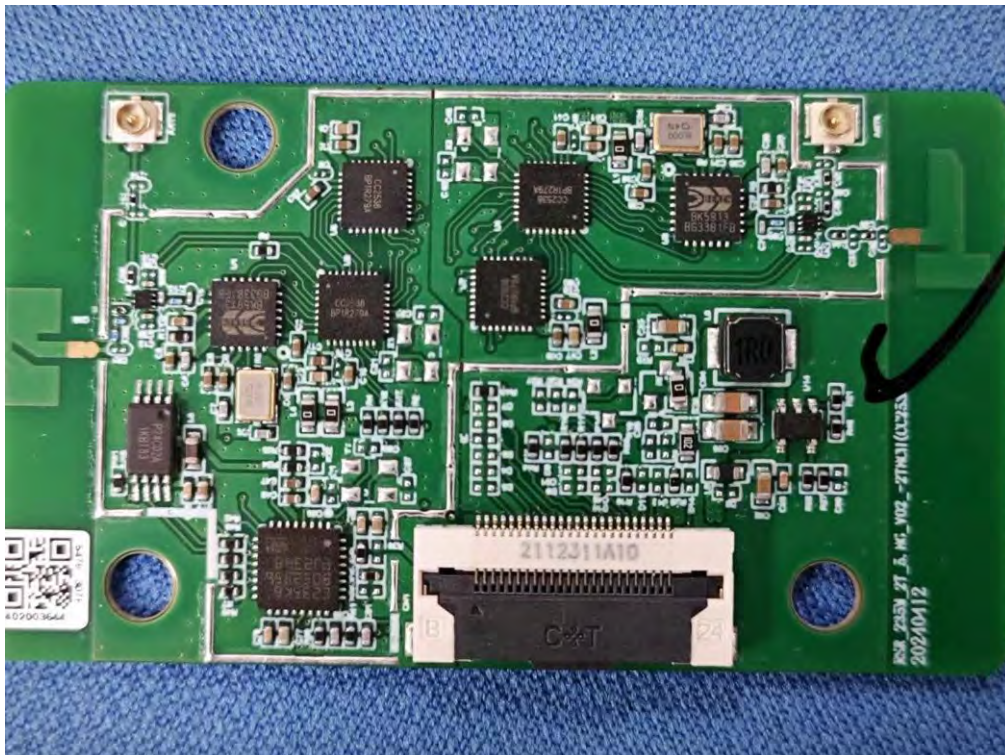
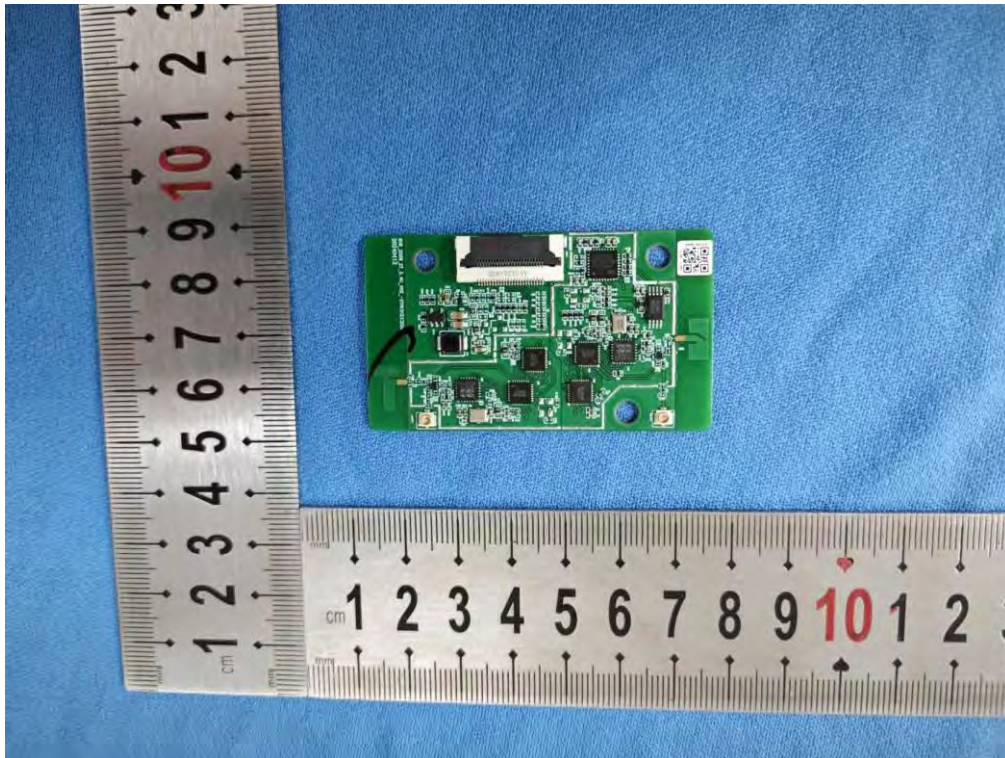
M/N: RS2T58M



External Photos
M/N: RS2T58M



Internal Photos M/N: RS2T58M



End of Test Report