



SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

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Report Template Version: V06
Report Template Revision Date: 2026-01-30

Test Report

Report No. : CQASZ20260100077E-01
Applicant: eMoMo Technology (Zhejiang) Co., LTD
Address of Applicant: Building 2, South of Yuedu East Road and East of Tianhuangping North Road,
Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.
Equipment Under Test (EUT):
Product: Multi-functional Audio System
Model No.: E309BLTV07, E309BLV03
Test Model No.: E309BLTV07
Brand Name: eMoMo
FCC ID: 2BHM7-E309BLTV07
Standards: 47 CFR Part 15, Subpart C
KDB558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10:2020
Date of Receipt: 2026-1-23
Date of Test: 2025-11-11 to 2025-11-26
2026-01-23 to 2026-03-06
Date of Issue: 2026-03-06
Test Result : **PASS***

*In the configuration tested, the EUT complied with the standards specified above.

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20251102574E-01	Rev.01	Initial report	2025-11-28
CQASZ20260100077E-01	Rev.02	Update report	2026-03-06

Note:

This test report (Ref. No.: CQASZ20260100077E-01)

All test data comes from source test reports (Ref. No.: CQASZ20251102574E-01).

Only on the basis of the original report Added an adapter, So tests were added.

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	/	N/A
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2020	PASS
Conducted Peak Output Power	47 CFR Part 15.247	ANSI C63.10-2020	PASS
20dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020	N/A
Carrier Frequencies Separation	47 CFR Part 15.247	ANSI C63.10-2020	N/A
Hopping Channel Number	47 CFR Part 15.247	ANSI C63.10-2020	N/A
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2020	N/A
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15.247	ANSI C63.10-2020	N/A
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2020	N/A
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2020	N/A
Radiated Spurious emissions	47 CFR Part 15.209	ANSI C63.10-2020	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2020	N/A

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

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4 General Information

4.1 Client Information

Applicant:	eMoMo Technology (Zhejiang) Co., LTD
Address of Applicant:	Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.
Manufacturer:	eMoMo Technology (Zhejiang) Co., LTD
Address of Manufacturer:	Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.
Factory:	eMoMo Technology (Zhejiang) Co., LTD
Address of Factory:	Building 2, South of Yuedu East Road and East of Tianhuangping North Road, Dipu Street, Anji County, Huzhou City, Zhejiang Province, 313300, China.

4.2 General Description of EUT

Product Name:	Multi-functional Audio System
Model No.:	E309BLTV07, E309BLV03
Test Model No.:	E309BLTV07
Trade Mark:	eMoMo
Software Version:	V2.0
Hardware Version:	V2.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	FCC_assist
Antenna Type:	PCB antenna
Antenna Gain:	3.38dBi
Power Supply:	Adapter: Model:GRP-90W200045-A Input:100-240V~50/60Hz 2.5A Output:20V== 4.5A 90W Adapter2: Model:MX120D-20006000 Input:100-240V~50/60Hz 2.5A Output: 20V== 6A 120W

Simultaneous Transmission

☐ Simultaneous TX is supported and evaluated in this report.

☒ Simultaneous TX is not supported.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

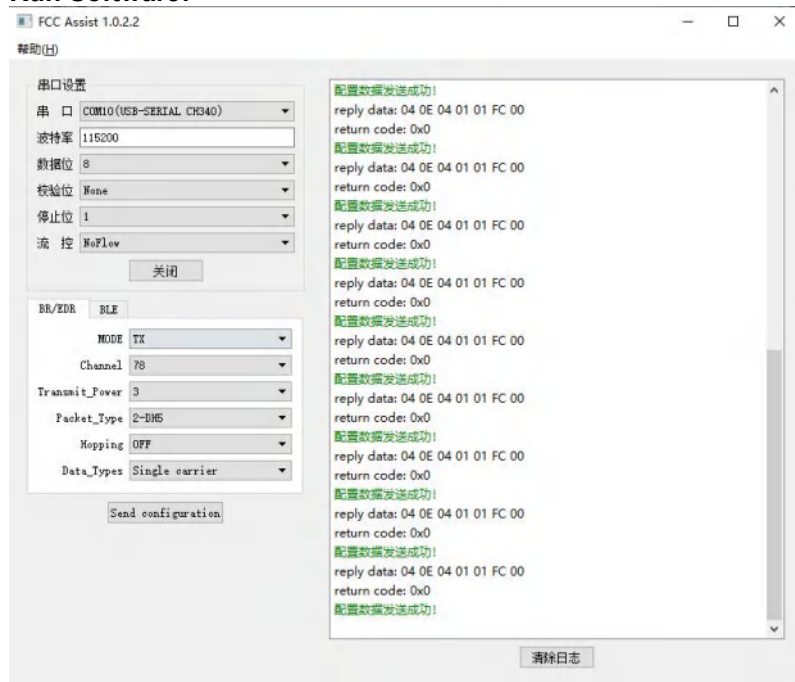
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

4.3 Additional Instructions

EUT Test Software Settings:		
Mode:	☒ Special software is used. ☐ Through engineering command into the engineering mode. engineering command: ***#3646633#**	
EUT Power level:	(Power level is built-in set parameters and cannot be changed and selected)	
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		
Mode	Channel	Frequency(MHz)
DH1/DH3/DH5	CH0	2402
	CH39	2441
	CH78	2480
2DH1/2DH3/2DH5	CH0	2402
	CH39	2441
	CH78	2480
3DH1/3DH3/3DH5	CH0	2402
	CH39	2441
	CH78	2480

Run Software:



4.4 Test Environment

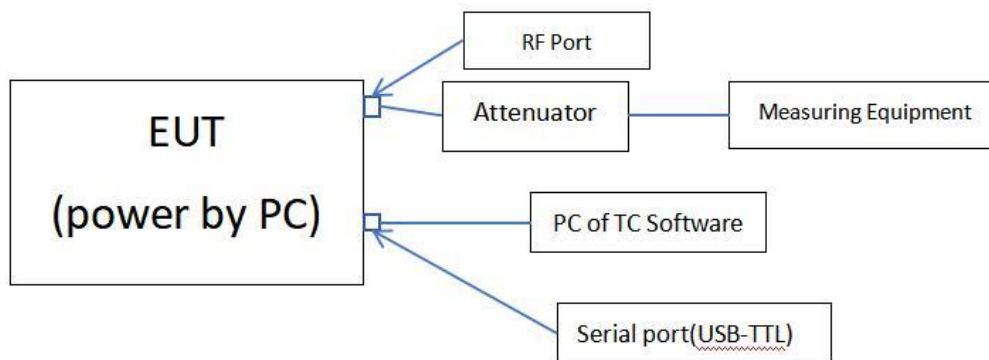
Operating Environment:	
Temperature:	25 °C
Humidity:	54% RH
Atmospheric Pressure:	1009mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	Supplied
Adapter	MI	/	/	CQA

4.6 Test configuration



4.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz

4.8 Test Location

All tests were performed at:

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD
102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community,
Dalang Street, Longhua District, Shenzhen, Guangdong,
People's Republic of China, 518000

4.9 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L5785)**

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.

4.12 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU26	CQA-038	2025/9/1	2026/8/31
Spectrum analyzer	R&S	FSU40	CQA-075	2025/9/1	2026/8/31
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2025/9/1	2026/8/31
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2025/9/1	2026/8/31
Preamplifier	EMCI	EMC184055SE	CQA-089	2025/9/1	2026/8/31
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2025/9/1	2026/8/31
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2025/9/1	2026/8/31
Antenna Connector	CQA	RFC-01	CQA-080	2025/9/1	2026/8/31
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2025/9/1	2026/8/31
Power meter	R&S	NRVD	CQA-029	2025/9/1	2026/8/31
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2025/9/1	2026/8/31
EMI Test Receiver	R&S	ESR7	CQA-005	2025/9/1	2026/8/31
LISN	R&S	ENV216	CQA-003	2025/9/1	2026/8/31
Coaxial cable	CQA	N/A	CQA-C009	2025/9/1	2026/8/31
DC power	KEYSIGHT	E3631A	CQA-028	2025/9/1	2026/8/31

Test software:

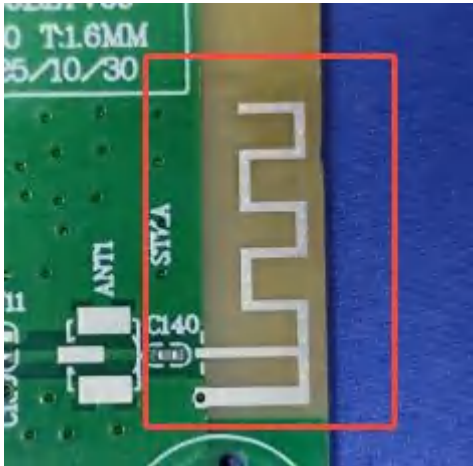
	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

5 Test results and Measurement Data

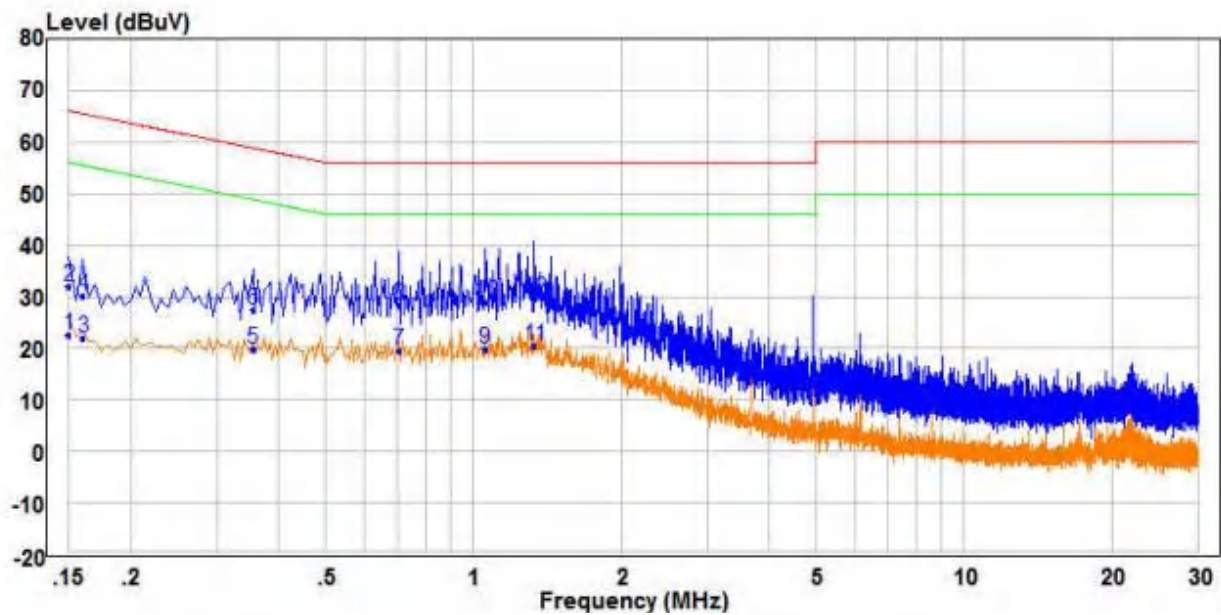
5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: 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, 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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is PCB antenna. The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment. This is either permanently attachment or a unique coupling that satisfies the requirement.	

Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass

Measurement Data

Live line:

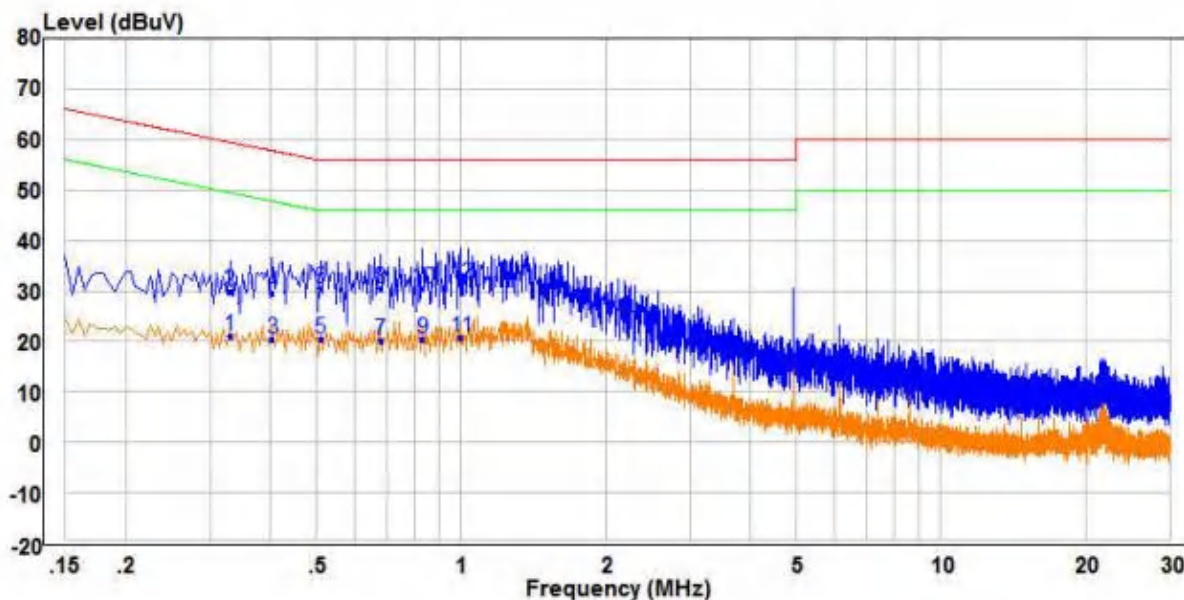


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.150	13.09	9.49	22.58	56.00	-33.42	Average	Line
2	0.150	22.64	9.49	32.13	66.00	-33.87	QP	Line
3	0.160	12.36	9.49	21.85	55.46	-33.61	Average	Line
4	0.160	20.68	9.49	30.17	65.46	-35.29	QP	Line
5	0.355	10.26	9.50	19.76	48.84	-29.08	Average	Line
6	0.355	18.08	9.50	27.58	58.84	-31.26	QP	Line
7	0.705	9.76	9.87	19.63	46.00	-26.37	Average	Line
8	0.705	18.49	9.87	28.36	56.00	-27.64	QP	Line
9	1.055	10.39	9.53	19.92	46.00	-26.08	Average	Line
10	1.055	19.42	9.53	28.95	56.00	-27.05	QP	Line
11 PP	1.330	11.01	9.53	20.54	46.00	-25.46	Average	Line
12 QP	1.330	20.16	9.53	29.69	56.00	-26.31	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



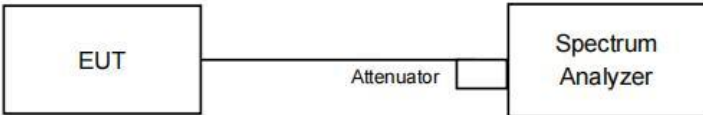
	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.330	11.49	9.52	21.01	49.45	-28.44	Average	Neutral
2	0.330	20.35	9.52	29.87	59.45	-29.58	QP	Neutral
3	0.405	10.89	9.61	20.50	47.75	-27.25	Average	Neutral
4	0.405	19.94	9.61	29.55	57.75	-28.20	QP	Neutral
5	0.510	10.85	9.71	20.56	46.00	-25.44	Average	Neutral
6	0.510	20.91	9.71	30.62	56.00	-25.38	QP	Neutral
7	0.680	10.30	9.88	20.18	46.00	-25.82	Average	Neutral
8	0.680	20.64	9.88	30.52	56.00	-25.48	QP	Neutral
9	0.830	10.73	9.81	20.54	46.00	-25.46	Average	Neutral
10	0.830	20.68	9.81	30.49	56.00	-25.51	QP	Neutral
11 AV	1.000	11.02	9.70	20.72	46.00	-25.28	Average	Neutral
12 PP	1.000	21.55	9.70	31.25	56.00	-24.75	QP	Neutral

The radiated spurious emission peak levels of the new EUT were measured and compared with the results reported in the original report. The maximum peak emission level of the originally tested EUT was 10.97 dB μ V/m, while the maximum peak emission level of the new EUT is 24.75 dB μ V/m. The new EUT shows a lower emission level than the original EUT, therefore meeting the requirements for a Class II Permissive Change (C2 PC).

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2020
Test Setup:	Setup for Power meter measurement method  <pre> graph LR EUT[EUT] --- PM[Power Meter] </pre> Setup for Spectrum analyser measurement method  <pre> graph LR EUT[EUT] --- Att[Attenuator] --- SA[Spectrum Analyzer] </pre> <i>Remark: Offset=Cable loss+ attenuation factor.</i>
Limit:	21dBm
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Operated Mode for Worst Duty Cycle:				
Test Mode	On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)
GFSK	2.91	3.75	77.60	1.10
$\pi/4$ DQPSK	2.92	3.75	77.87	1.09
8DPSK	2.93	3.76	77.93	1.08

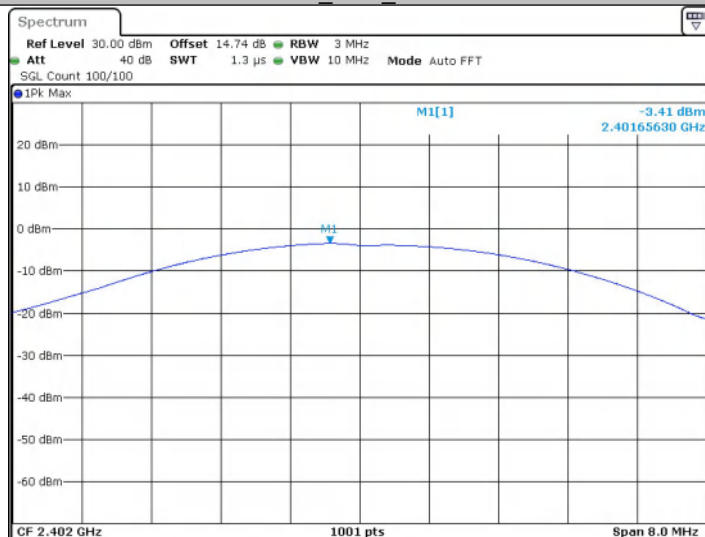
Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;

Measurement Data

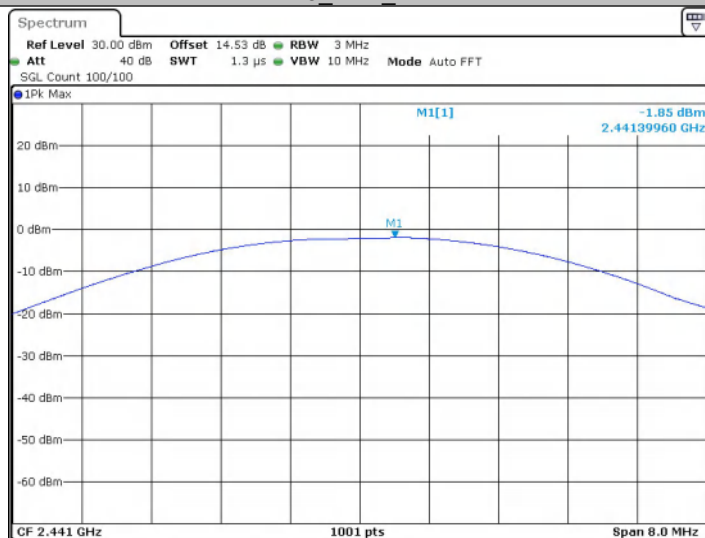
GFSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.41	21.00	Pass
Middle	-1.85	21.00	Pass
Highest	-2.49	21.00	Pass
$\pi/4$ DQPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.32	21.00	Pass
Middle	-1.39	21.00	Pass
Highest	-2.02	21.00	Pass
8DPSK mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.32	21.00	Pass
Middle	-1.57	21.00	Pass
Highest	-2.21	21.00	Pass

DH5_Ant1_2402



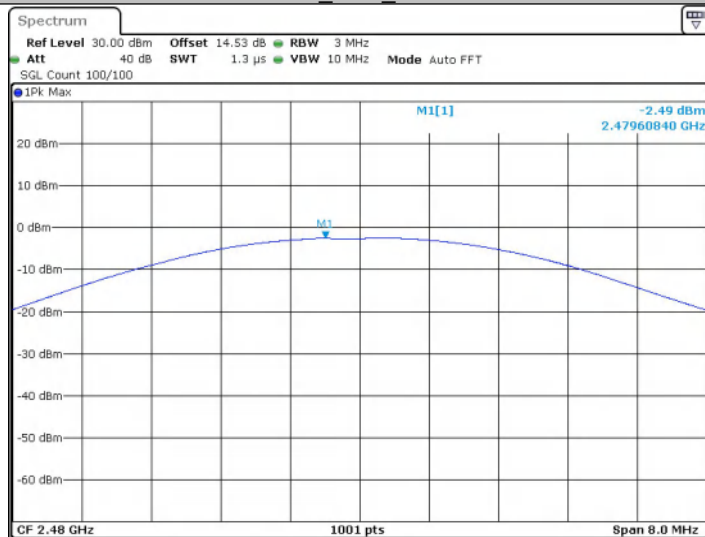
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DH5_Ant1_2441



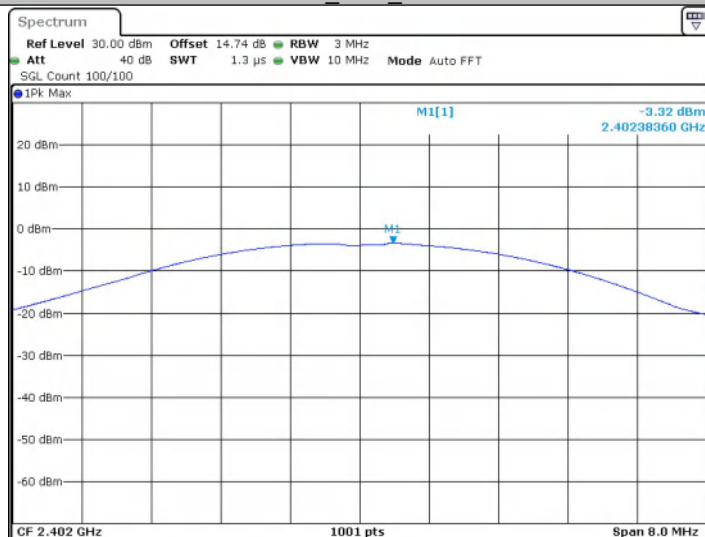
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DH5_Ant1_2480



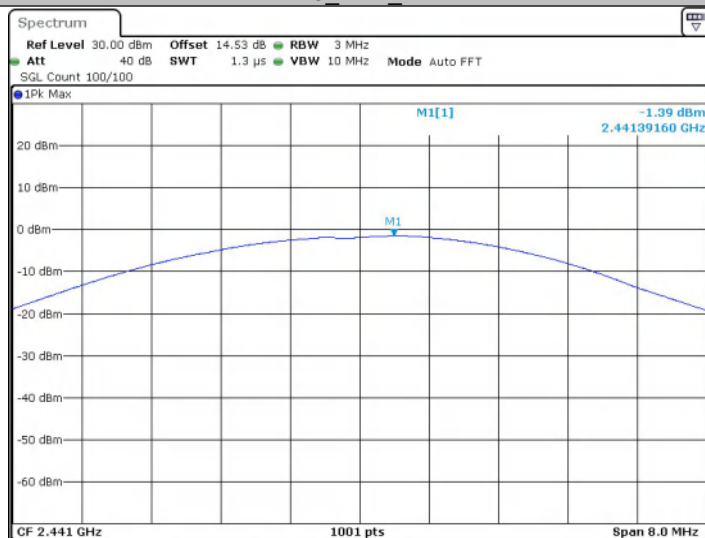
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2DH5_Ant1_2402



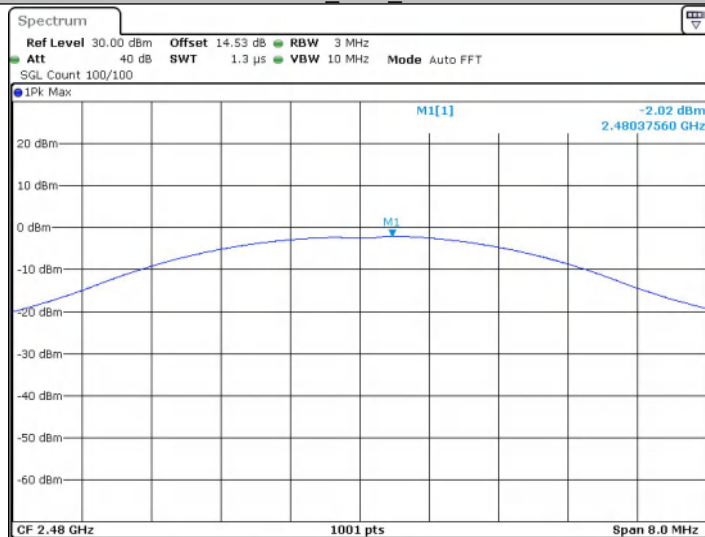
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2DH5_Ant1_2441



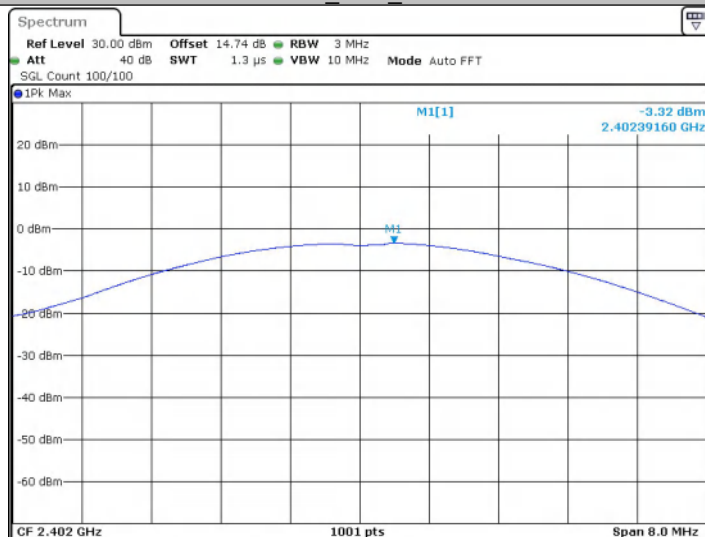
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2DH5_Ant1_2480



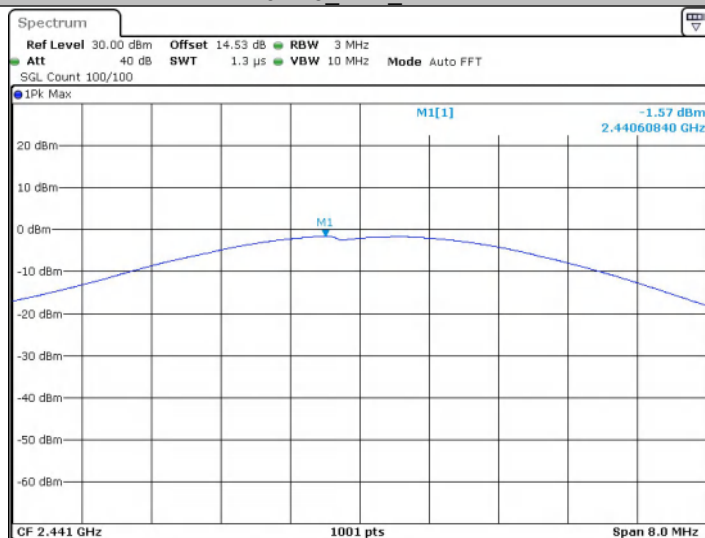
Date: 6 MAR 2026 11:37:41

3DH5_Ant1_2402



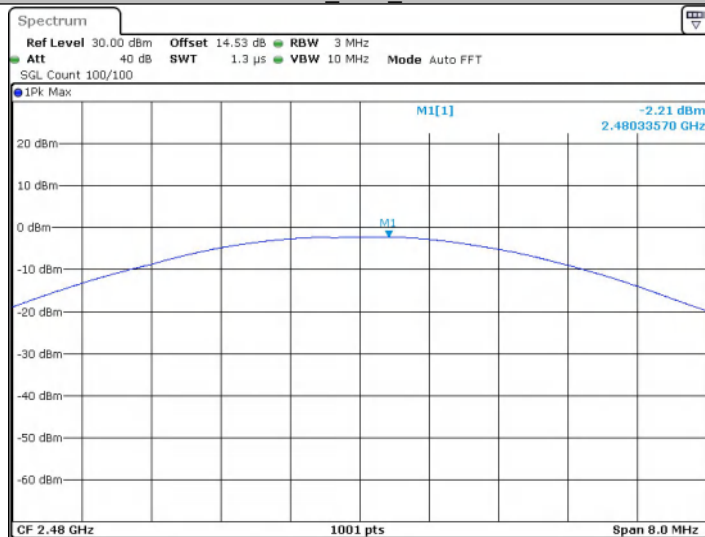
Date: 6 MAR 2026 11:38:41

3DH5_Ant1_2441



Date: 6 MAR 2026 11:40:15

3DH5_Ant1_2480



Date: 6 MAR 2026 11:39:39

5.4 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2020				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Peak	120 kHz	300kHz	Peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

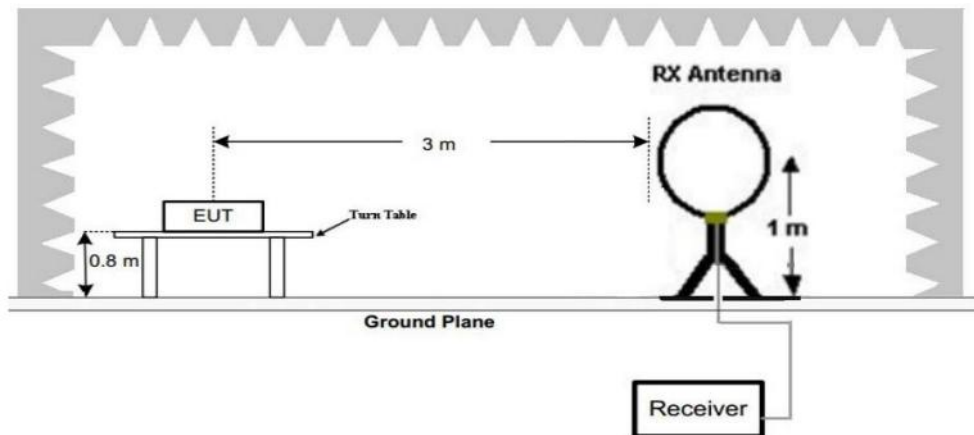


Figure 1. Below 30MHz

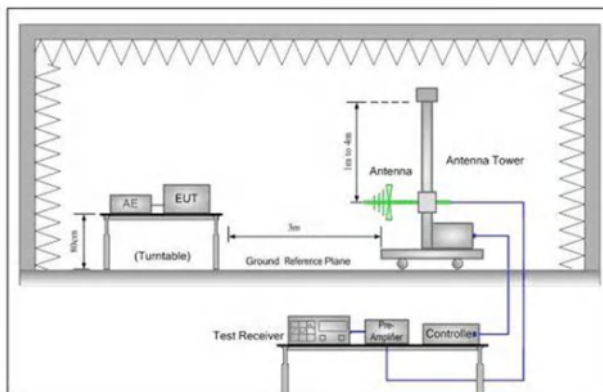


Figure 2. 30MHz to 1GHz

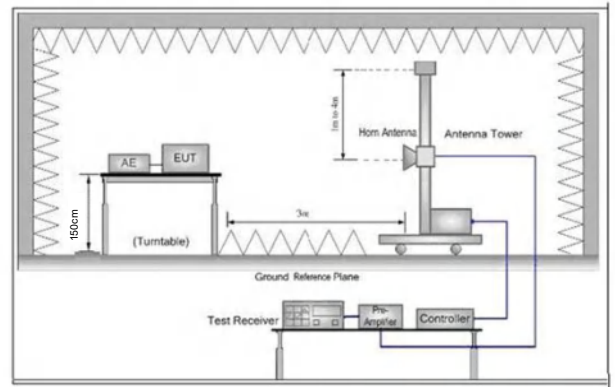


Figure 3. Above 1 GHz

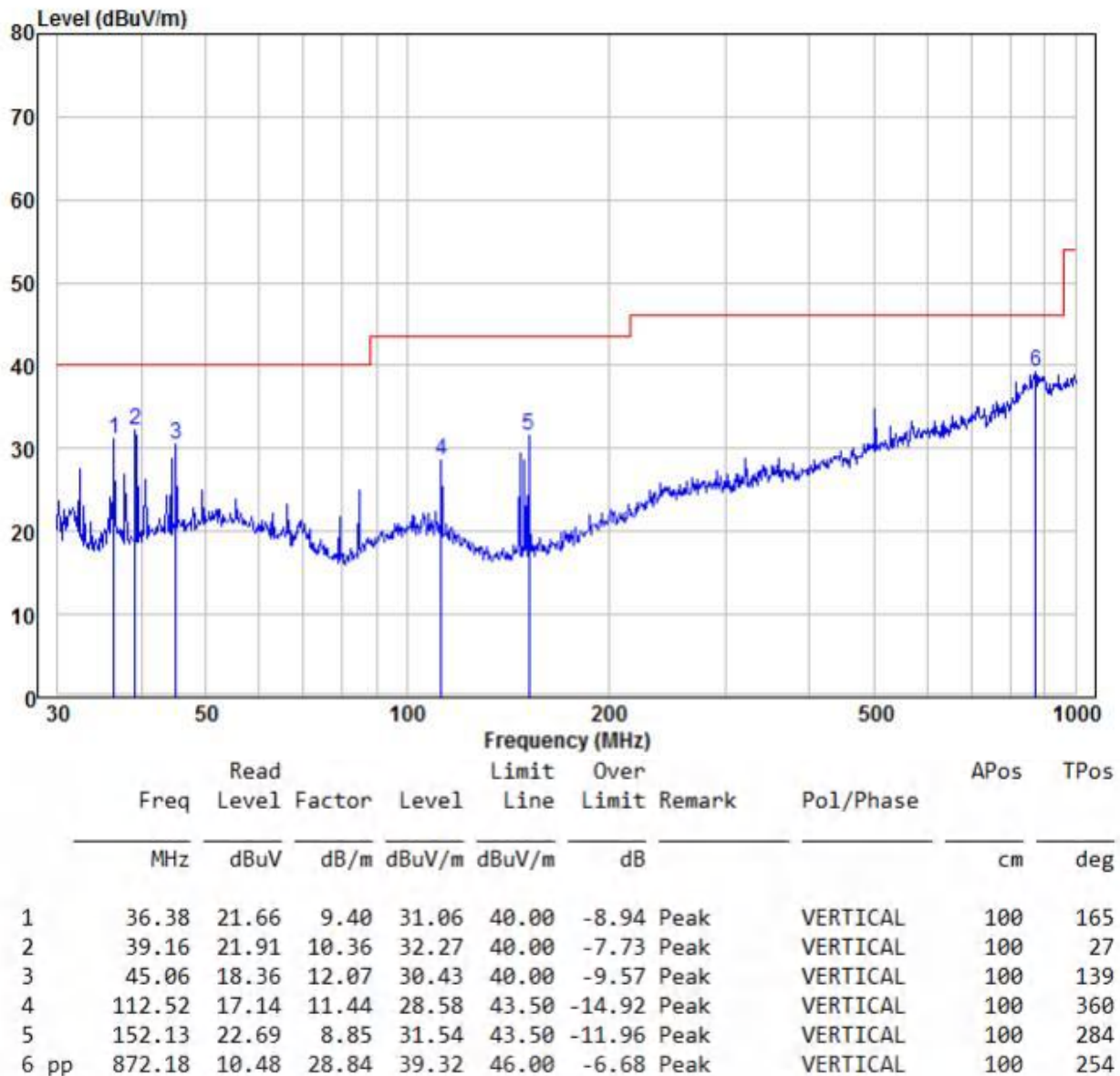
Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note: For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Transmitting mode
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. For below 1GHz part, through pre-scan, the worst case is the highest channel. Only the worst case is recorded in the report.
Test Results:	Pass

5.4.1 Radiated Emission below 1GHz

30MHz~1GHz		
Test mode:	Transmitting	Vertical



Remark:

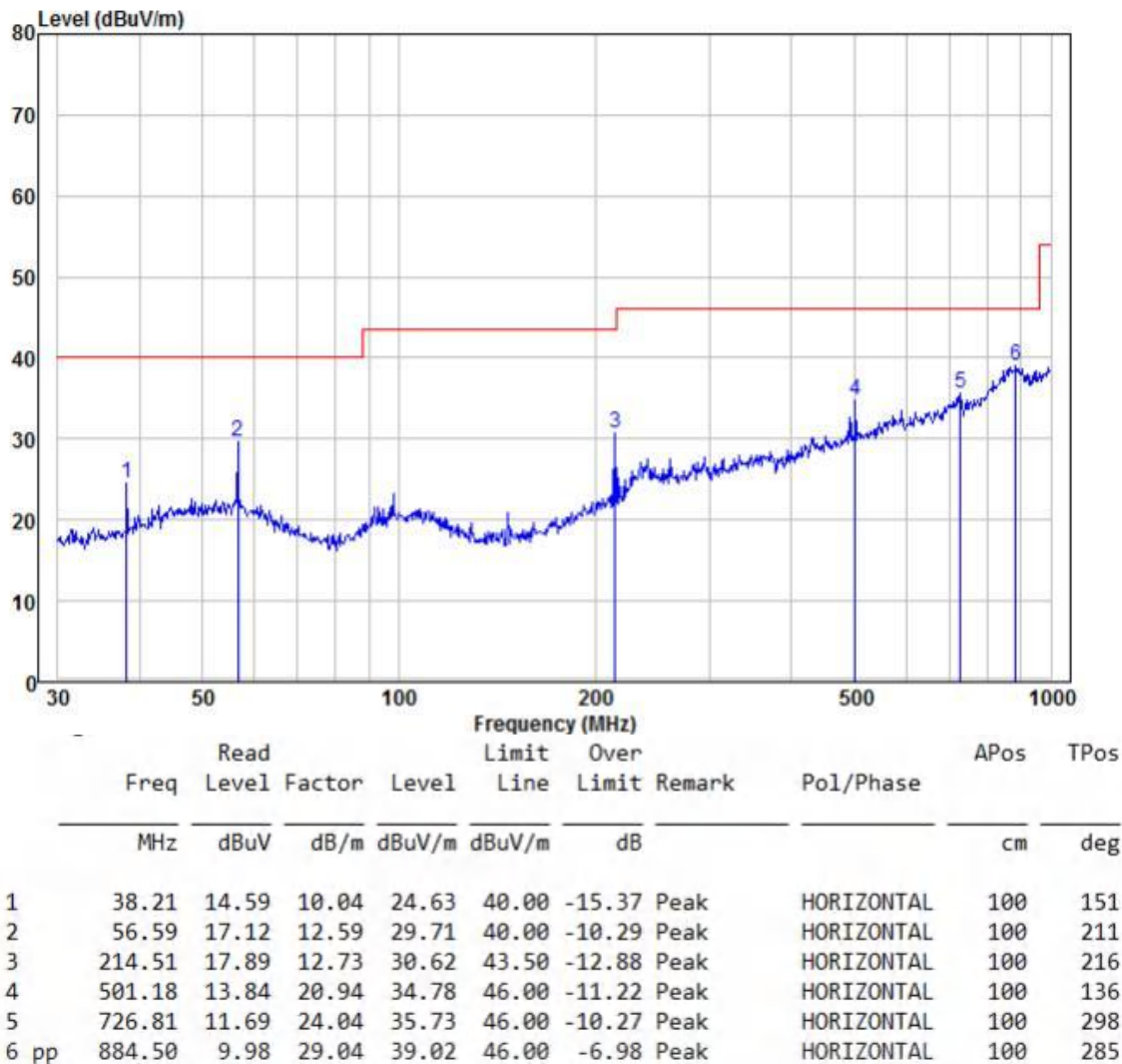
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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The radiated spurious emission peak levels of the new EUT were measured and compared with the results reported in the original report. The maximum peak emission level of the originally tested EUT was 5.64 dB μ V/m, while the maximum peak emission level of the new EUT is 6.68dB μ V/m. The new EUT shows a lower emission level than the original EUT, therefore meeting the requirements for a Class II Permissive Change (C2PC).

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

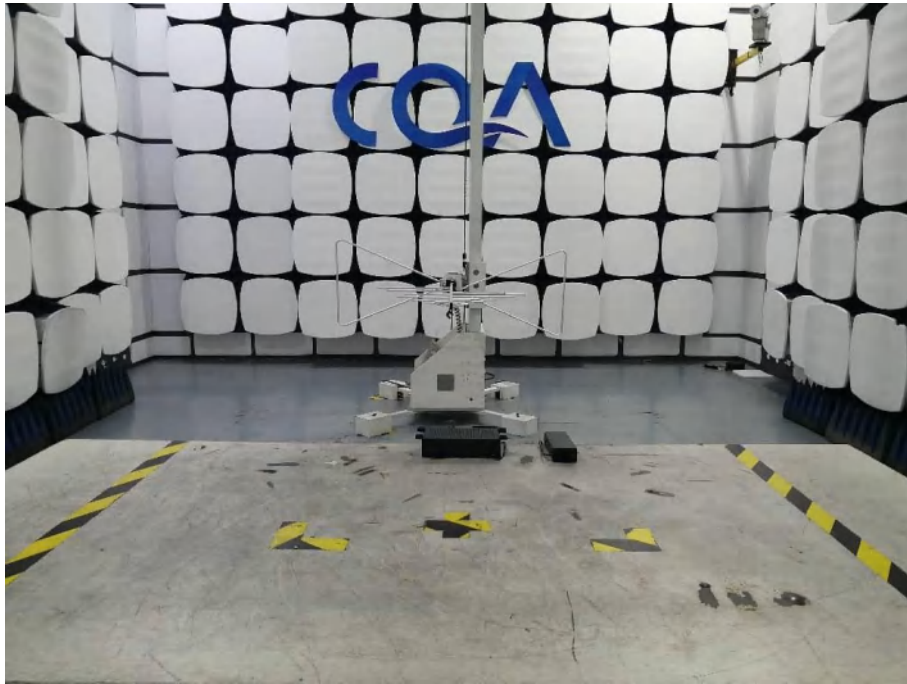
Level = Read Level + Factor,

Over Limit=Level-Limit Line.

6 Photographs - EUT Test Setup

6.1 Radiated Emission

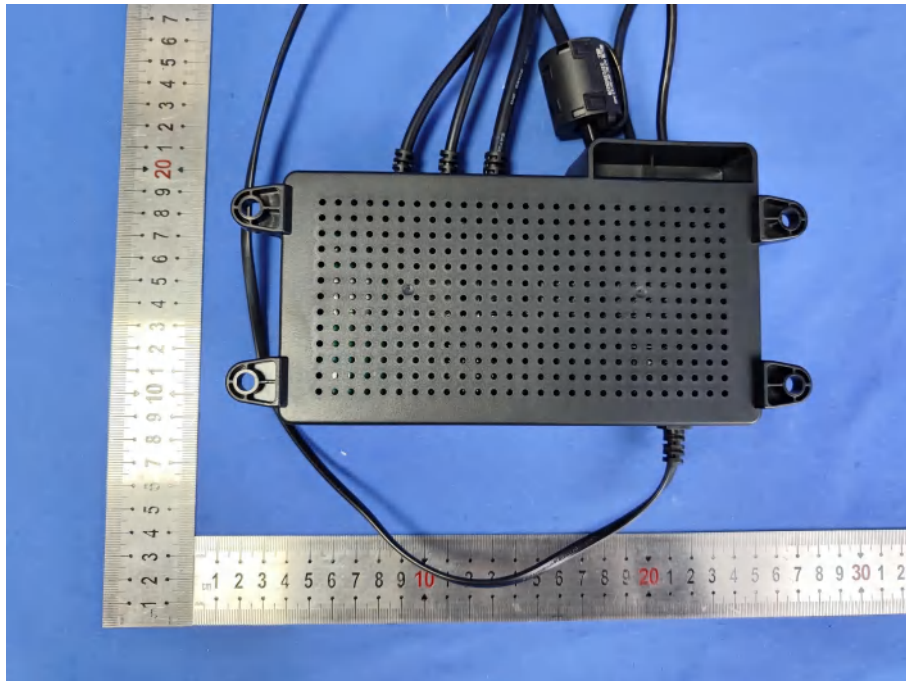
9kHz~30MHz:

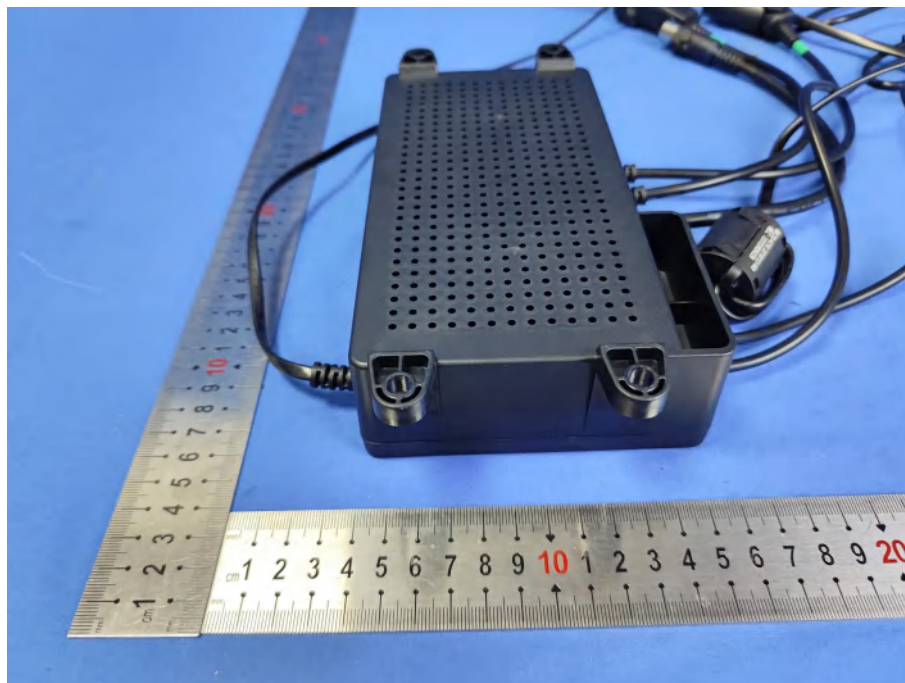


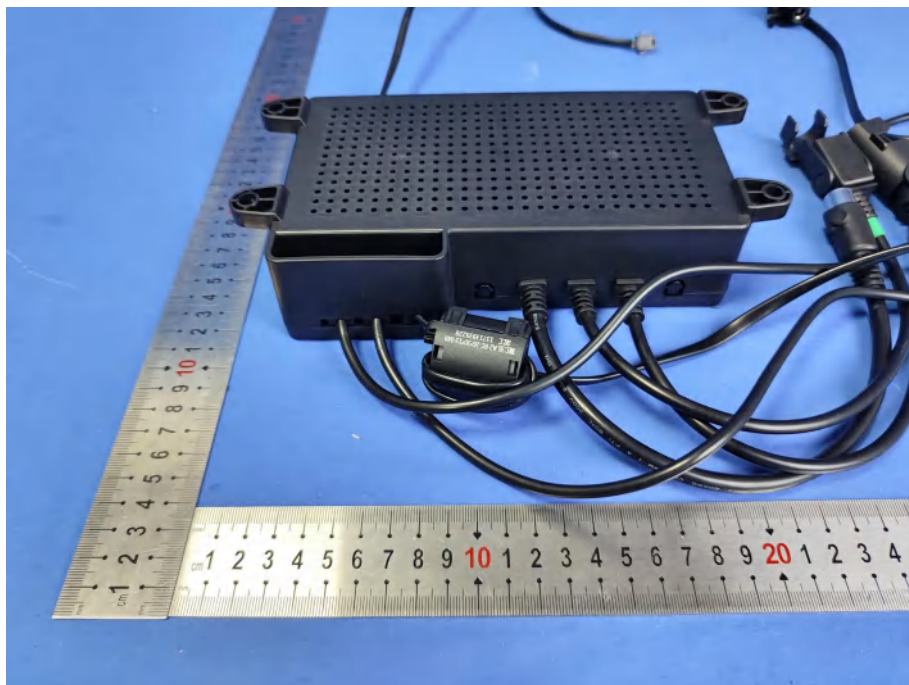
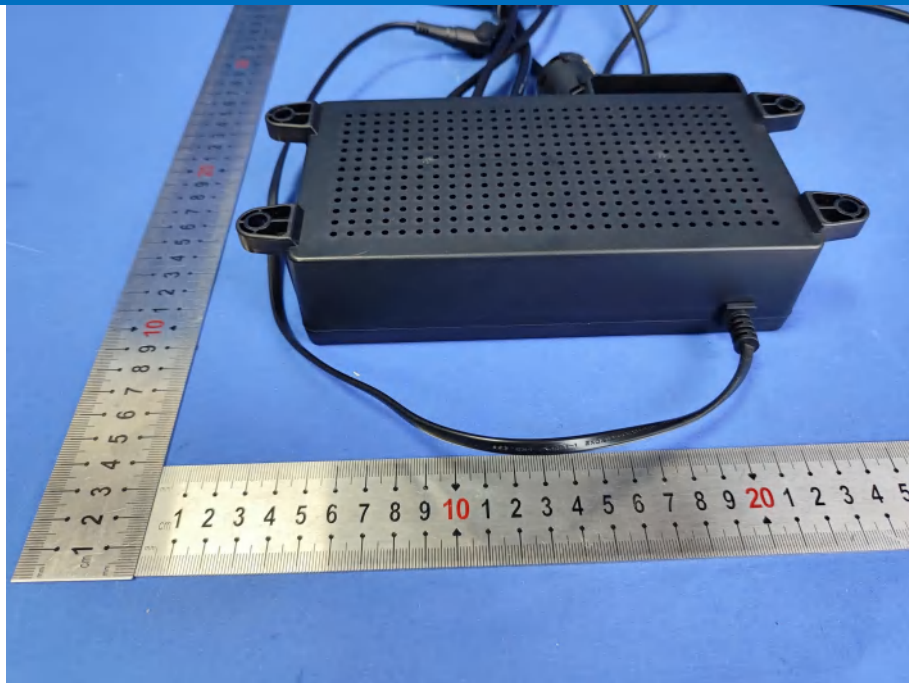
6.2 Conducted Emission

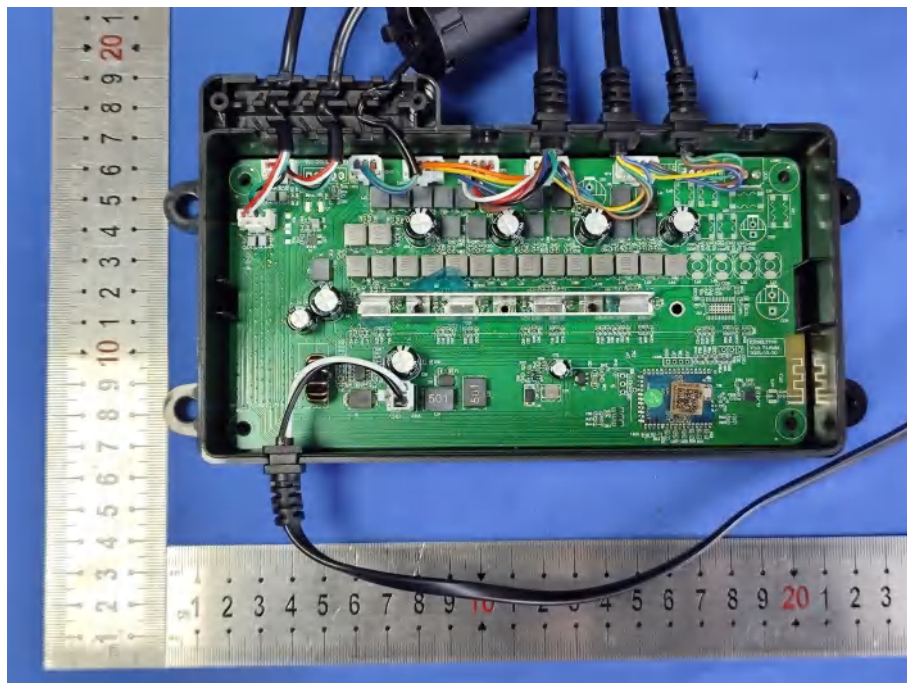
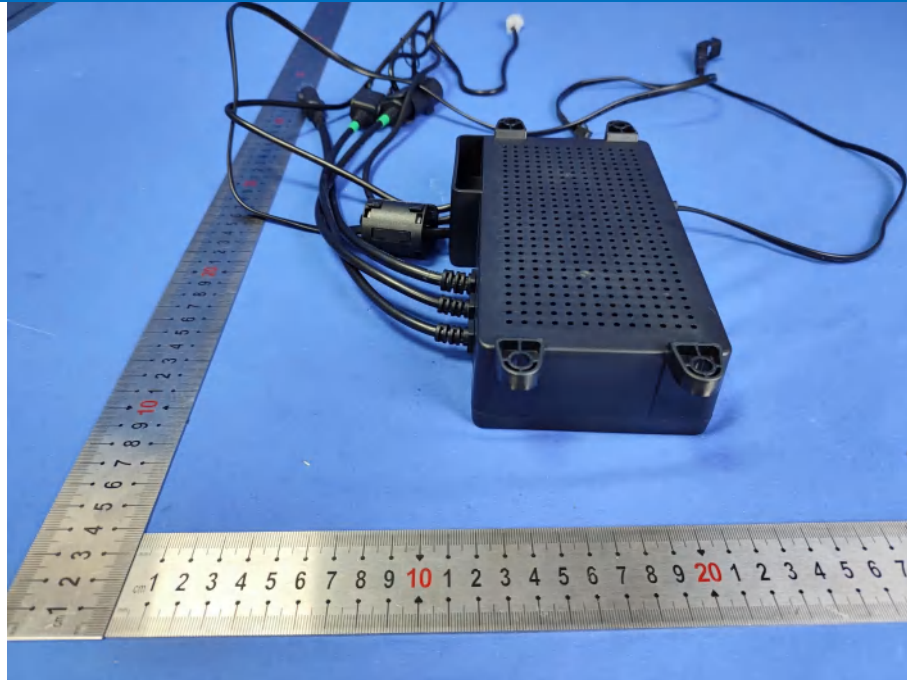


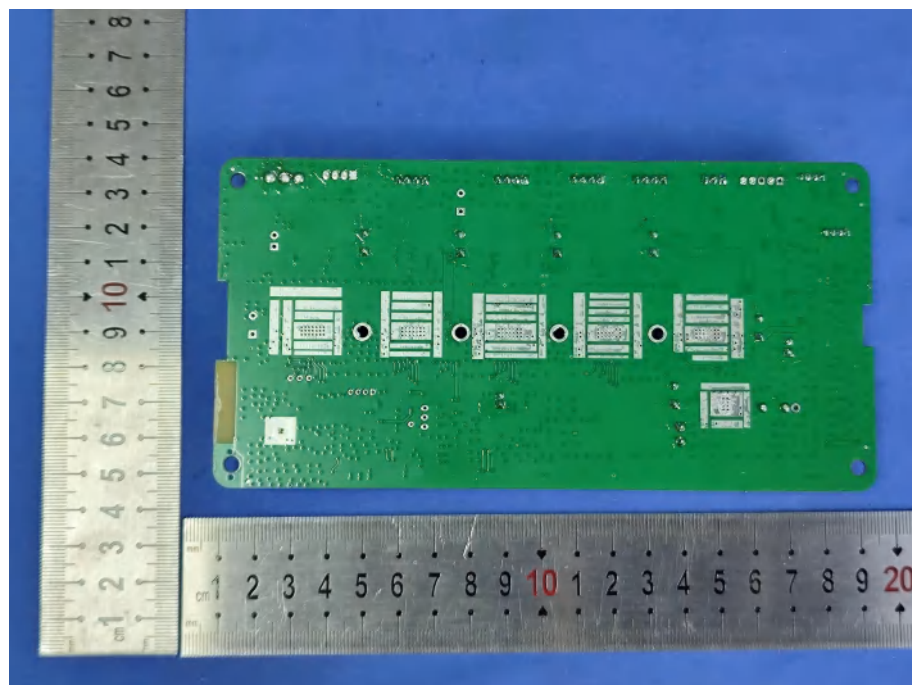
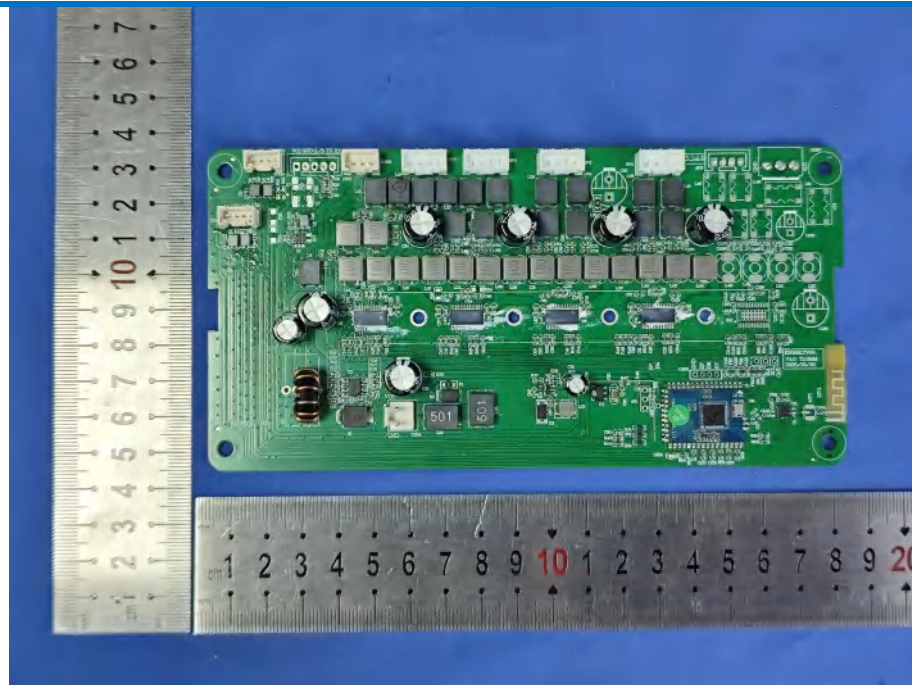
7 Photographs - EUT Constructional Details

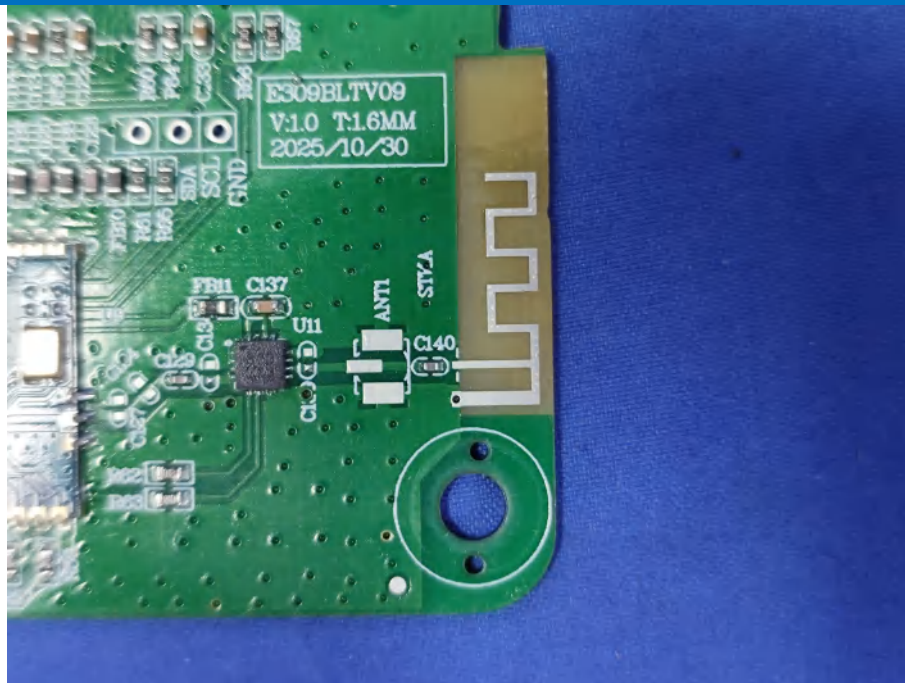












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*** END OF REPORT ***