TEST REPORT

Report No.:	TW2604001-02E
Applicant:	Echo Solutions LLC
Product:	Remote Control – Transmitter
Model No.:	CD-0328A
Trademark:	N/A
Test Standards:	FCC Part 15 Subpart C, Paragraph 15.231
Test result:	It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.231 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: April 21, 2026

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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Special Statement:

FCC-Registration No.: 744189

The 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.: 744189.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

FCC Designation Number: CN1251

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Telephone: +86 755 83448688

Fax: +86 755 83442996

Site on File with the Federal Communications Commission – United States

Registration Number: 744189

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Echo Solutions LLC

Address: 5400 Johnson Dr Unit 346, Mission, KS 66205

1.3 Description of EUT

Product:	Remote Control – Transmitter
Manufacturer:	DawnSun Electronic Technology Co., Ltd. Zhongshan
Address:	8# Nanyi Street, Xinggong Road, Longxing Industrial District, Shaxi Town, Zhongshan, Guangdong, China 528471d
Trademark:	N/A
Model Number:	CD-0328A
Additional Model Name	N/A
Additional Trade Name	N/A
Hardware Version:	CD0328-V1
Software Version:	0x9BE0
Serial No.:	CD0328A
Rating:	DC12V
Battery:	23A battery
Operation Frequency:	315MHz
Modulation Type:	ASK/OOK
Antenna Designation	PCB Antenna with Gain 0dBi

1.4 Submitted Sample: 3 Samples

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1.5 Test Duration

2026-04-02 to 2026-04-21

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna requirements	**Pass**	Compliant
FCC Part 15, Paragraph 15.207	Conducted Emission Test	**N/A**	N/A
FCC Part 15, Paragraph 15.209	General Requirement	**Pass**	Compliant
FCC Part 15, Paragraph 15.231 (b)	Radiated Emission Test	**Pass**	Compliant
FCC Part 15, Paragraph 15.231 (c)	20dB Bandwidth Testing	**Pass**	Compliant
FCC Part 15, Paragraph 15.231 (a1)	Deactivate Testing	**Pass**	Compliant

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.231 , ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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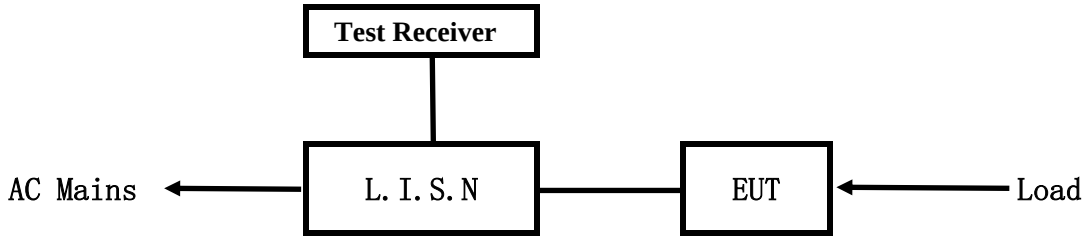
5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



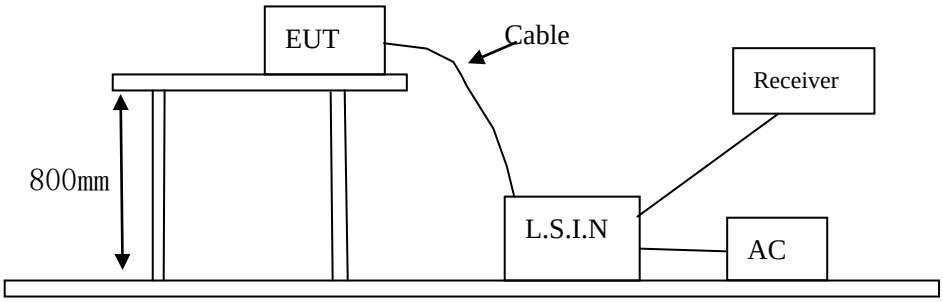
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Test Voltage: N/A

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Remote Control – Transmitter	DawnSun Electronic Technology Co., Ltd. Zhongshan	CD-0328A	2BVHX-CD-0328A

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

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Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ～ 0.50	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	56.0	46.0
5.00 ～ 30.00	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

Note: Due to the EUT powered by 23A Battery operation, this test item not applicable.

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189

(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

(3) The frequency spectrum from 30 MHz to 5 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

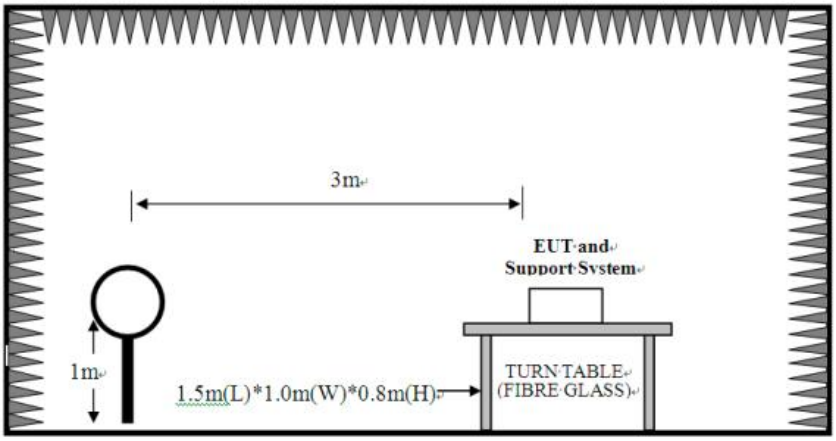
(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.

(6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



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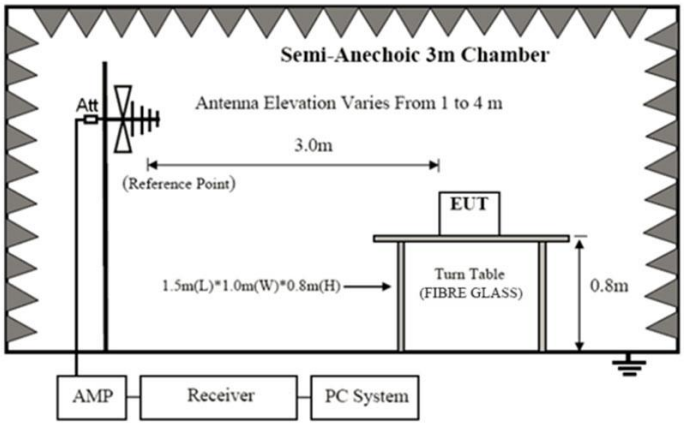
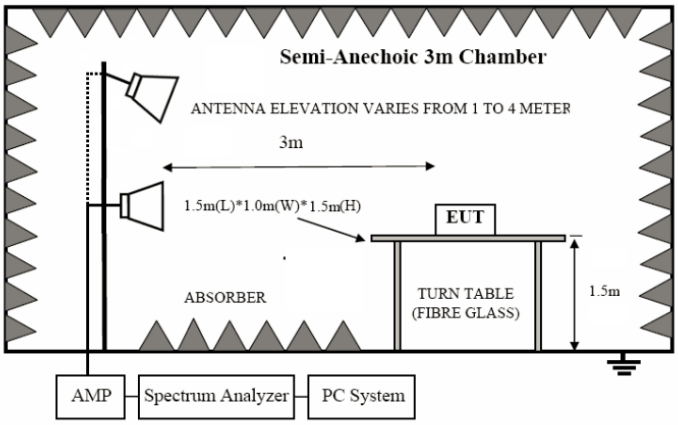
For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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A FCC Part 15 Subpart C Paragraph 15.231(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental		Field Strength of Spurious Emission	
	uV/m	**dBuV/m**	**uV/m**	**dBuV/m**
40.66-40.70	2250	67.04	225	47.04
70-130	1250	61.94	125	41.94
130-174	1250-3750	61.94-71.48	125-375	41.94-51.48
174-260	3750	71.48	375	51.48
260-470	3750-12500	71.48-81.94	375-1250	51.48-61.94
Above 470	12500	81.94	1250	61.94

Note: 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

4.Linear interpolations for frequency ranges 130-174MHz and 260-470MHz

5.the above field strength limits are specified at a distance of 3-meters and the tighter limits apply at the band edges

6. New batteries were installed in the equipment under test for radiated emission testing.

7. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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B. Frequencies in restricted band are compiled to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-5G, the final emission level got using PK detector. And Average = peak(dBuV/m) – ｜duty cycle｜(dB)

6.5 Test result

A Fundamental and Harmonics Radiated emission data

Product:	Remote Control – Transmitter	Test Mode:	Keep Transmitting
Test Item:	Fundamental Radiated Emission and Spurious Emission Data	Temperature:	25℃
Test Voltage:	DC12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	**Emission PK/AV (dBuV/m)**	**Horizontal / Vertical**	**Limits PK/AV** (dBuV/m)
315	76.81 (PK)/65.74 (AV)	H	95.62/75.62
315*	63.94 (PK)	V	95.62/75.62
630*	46.08 (PK)	H	75.62/55.62
630*	46.70 (PK)	V	75.62/55.62
945*	44.35 (PK)	H	75.62/55.62
945*	42.25 (PK)	V	75.62/55.62
1260	--	H	75.62/55.62
1260*	43.66 (PK)	V	75.62/55.62
1575	--	H/V	74/54
1890*	50.43 (PK)	H	75.62/55.62
1890*	49.68 (PK)	V	75.62/55.62
2205*	51.99 (PK)	H	74/54
2205*	50.11 (PK)	V	74/54
2520*	51.99 (PK)	H	75.62/55.62
2520*	48.99 (PK)	V	75.62/55.62

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2835*	50.98 (PK)	H	74/54
2835*	50.47 (PK)	V	74/54
3150*	50.65 (PK)	H	75.62/55.62
3150*	49.11 (PK)	V	75.62/55.62

Note: H=Horizontal, V=Vertical, AV=PK-｜duty cycle factor｜=PK -11.07

*The PK measurement level less than the AV limit, no necessary to record the AV value

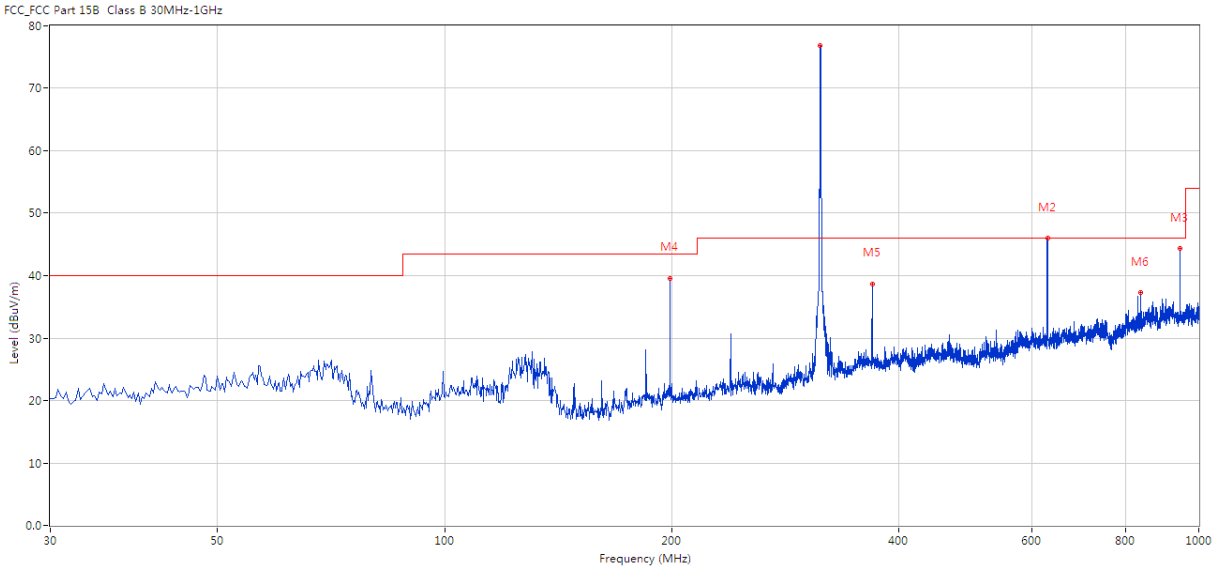
B. General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: **Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	314.866	76.81	-8.48	46.0	-30.81	Peak	341.00	100	Horizontal	N/A
2	630.037	46.08	-2.16	46.0	-0.08	Peak	55.00	100	Horizontal	N/A
3	945.209	44.35	2.18	46.0	1.65	Peak	116.00	100	Horizontal	N/A
4	198.980	39.61	-10.52	43.5	3.89	Peak	66.00	100	Horizontal	Pass
5	368.930	38.71	-4.97	46.0	7.29	Peak	69.00	100	Horizontal	Pass
6	837.566	37.23	1.35	46.0	8.77	Peak	224.00	100	Horizontal	Pass

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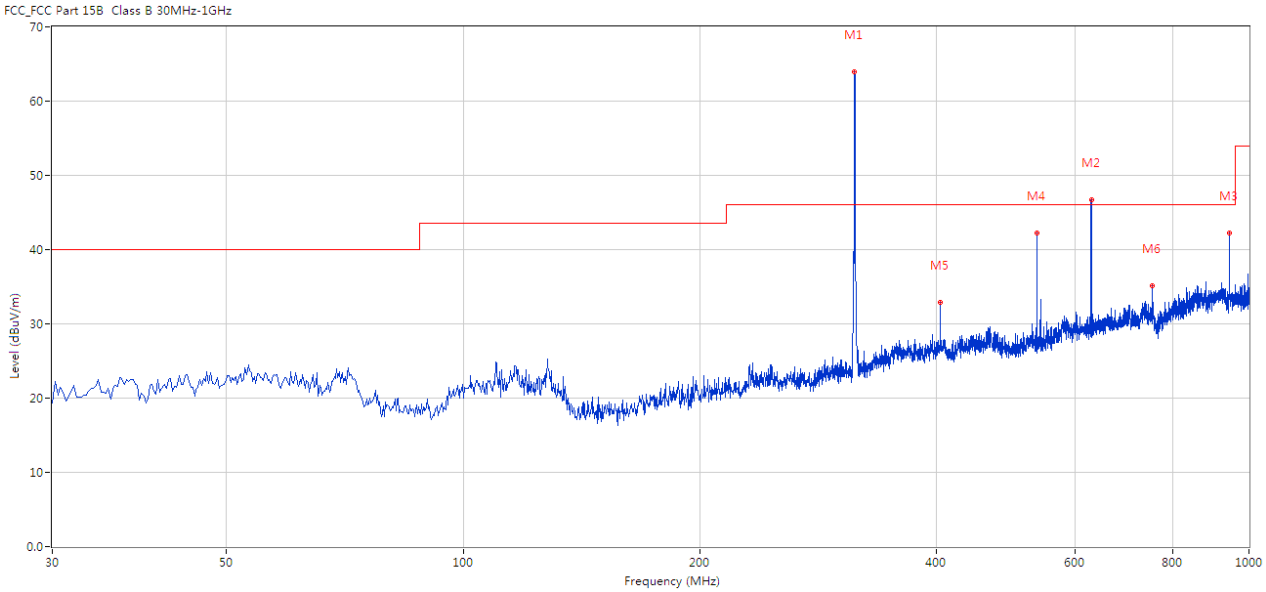
B. General Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: **Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	314.866	63.94	-8.48	46.0	-17.94	Peak	224.00	100	Vertical	N/A
2	630.037	46.70	-2.16	46.0	-0.70	Peak	215.00	100	Vertical	N/A
3	945.209	42.25	2.18	46.0	3.75	Peak	16.00	100	Vertical	N/A
4	537.426	42.20	-3.86	46.0	3.80	Peak	0.00	100	Vertical	Pass
5	404.811	32.88	-4.28	46.0	13.12	Peak	0.00	100	Vertical	Pass
6	753.924	35.09	-0.02	46.0	10.91	Peak	0.00	100	Vertical	Pass

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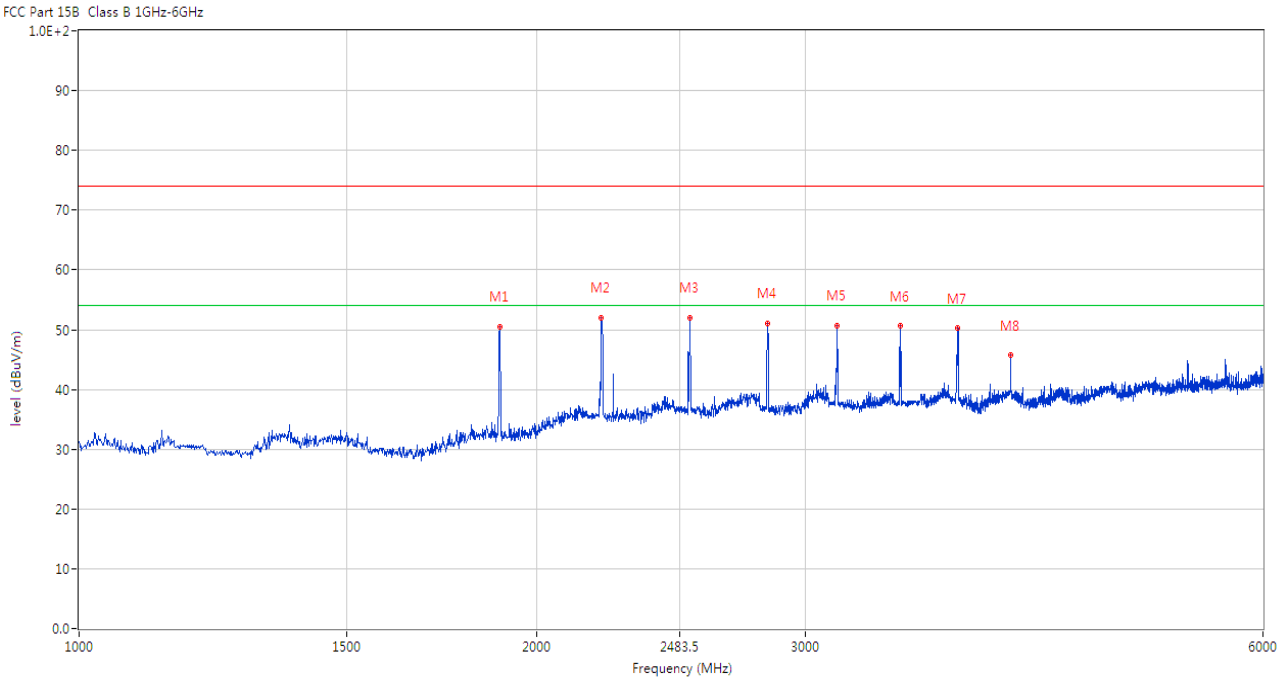
Test Plot above 1G

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1890.000	50.43	-6.01	74.0	-23.57	Peak	78.00	100	Horizontal	Pass
2	2205.000	51.99	-3.24	74.0	-22.01	Peak	232.00	100	Horizontal	Pass
3	2520.000	51.99	-3.52	74.0	-22.01	Peak	45.00	100	Horizontal	Pass
4	2835.000	50.98	-2.69	74.0	-23.02	Peak	7.00	100	Horizontal	Pass
5	3150.000	50.65	-2.08	74.0	-23.35	Peak	26.00	100	Horizontal	Pass
6	3465.000	50.70	-1.33	74.0	-23.30	Peak	1.00	100	Horizontal	Pass
7	3778.750	50.34	0.20	74.0	-23.66	Peak	7.00	100	Horizontal	Pass
8	4095.000	45.85	1.39	74.0	-28.15	Peak	54.00	100	Horizontal	Pass

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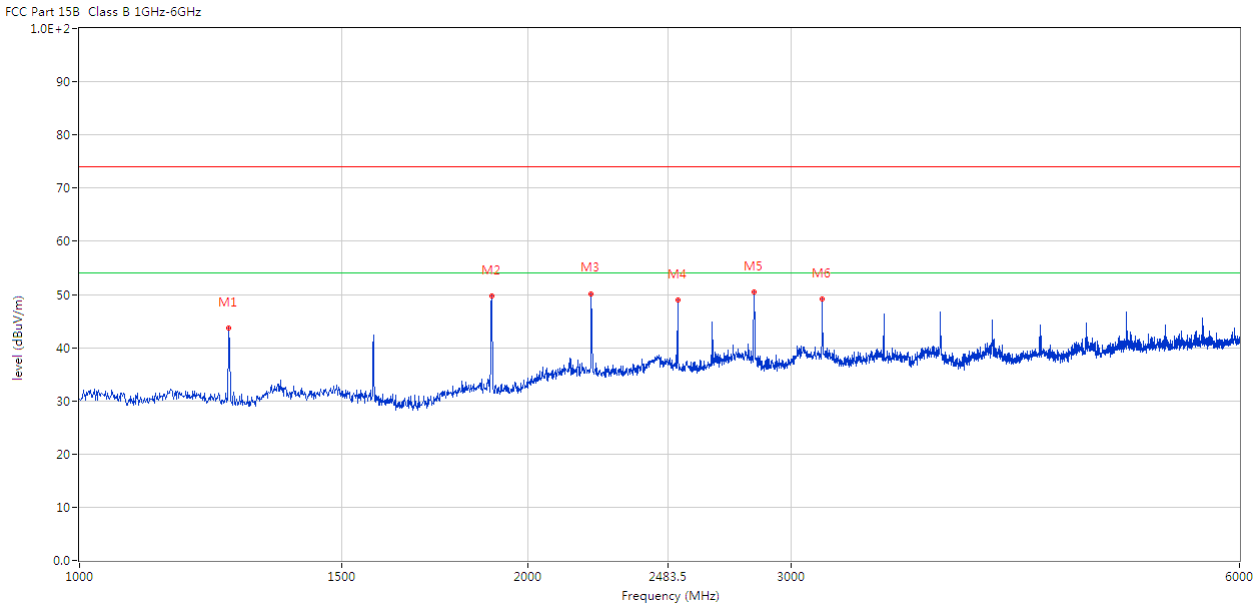
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1260.000	43.66	-8.51	74.0	-30.34	Peak	24.00	100	Vertical	Pass
2	1890.000	49.68	-6.01	74.0	-24.32	Peak	43.00	100	Vertical	Pass
3	2205.000	50.11	-3.24	74.0	-23.89	Peak	14.00	100	Vertical	Pass
4	2520.000	48.99	-3.52	74.0	-25.01	Peak	43.00	100	Vertical	Pass
5	2835.000	50.47	-2.69	74.0	-23.53	Peak	48.00	100	Vertical	Pass
6	3150.000	49.11	-2.08	74.0	-24.89	Peak	81.00	100	Vertical	Pass

Note: (1) Results = Reading Level + Factor (Factor= Antenna Factor + Cable Loss-Amplifier)

(2) Margin= Results -Limits

(3) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(4) For test purpose, keep EUT continuous transmitting

(5) Below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.

(6) the measured PK value less than the AV limit.

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7.0 20dB Bandwidth Testing

7.1 Requirement

Per 15.231(c) and RSS-210 A1, the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

7.2 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

7.3 Test Data

Frequency （MHz）	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
315	13.3	787.5	Pass

Limit=Frequency x 0.25%=315x 0.25%=787.5kHz

Refer to attached plots:

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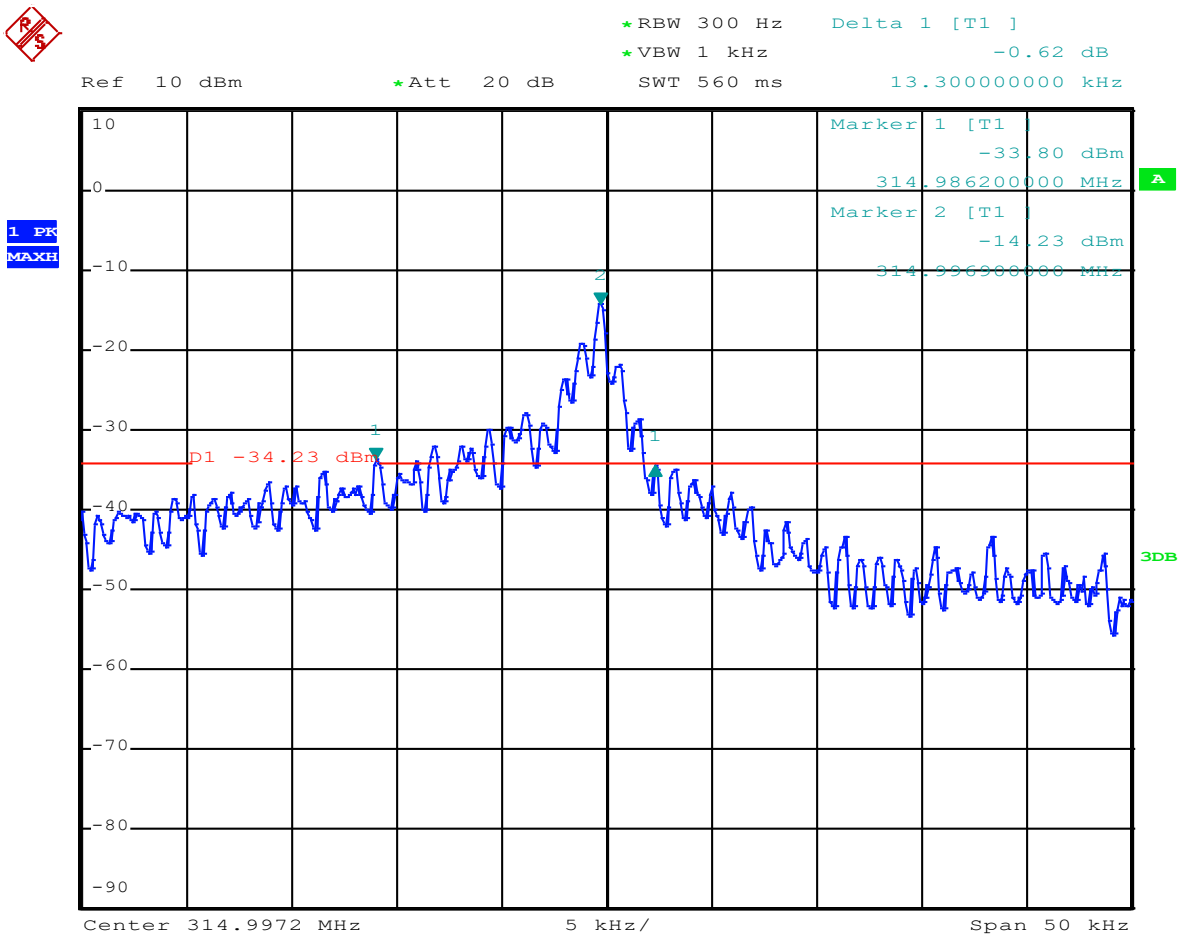
20dB Bandwidth



Date: 21.APR.2026 20:33:37

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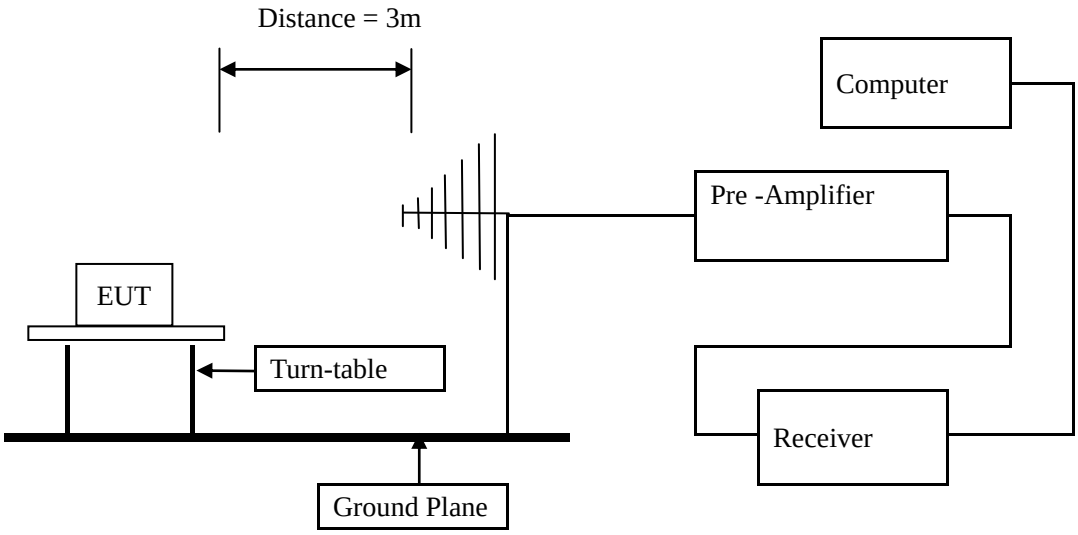
8.0 Deactivate Test

8.1 Requirement

Per 15.231(a) (1)

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

8. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

The deactivation test was performed in the 3 meters chamber B test site, using the setup accordance with the ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

8.3 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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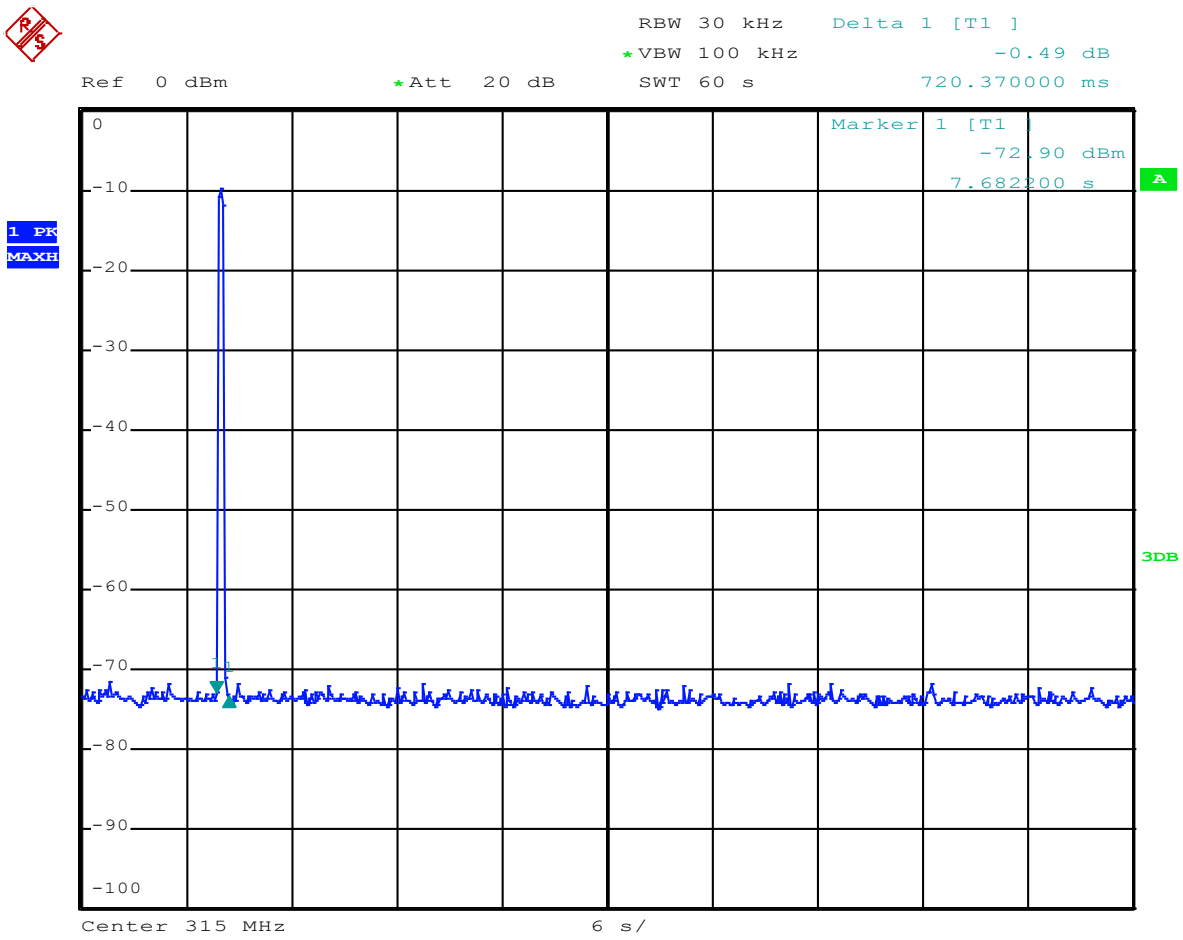
8.4 Test Data

Refer to attached plots:



Date: 16.APR.2026 20:57:59

8.5 Test result

Pass

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9.0 Duty Cycle

9.1 Limit

No dedicated limit specified in the Rules

9.2 Test Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer=operating frequency.
4. Set the spectrum analyzer as RBW = VBW=100kHz, Span=0Hz, Adjust Sweep=100ms.
5. Repeat above procedures until all frequency measured were complete.

9.3 Test Data

Base on the worst case

Tp = 56.16ms

Ton1= 0.75*17 = 12.75(ms)

Ton2 = 0.37*8=2.96 (ms)

Duty cycle=Ton/Tp=15.71/56.16=0.2797=27.97%

Duty cycle factor = 20 * log (duty cycle) = 20 * log (0.2797) = -11.07dB

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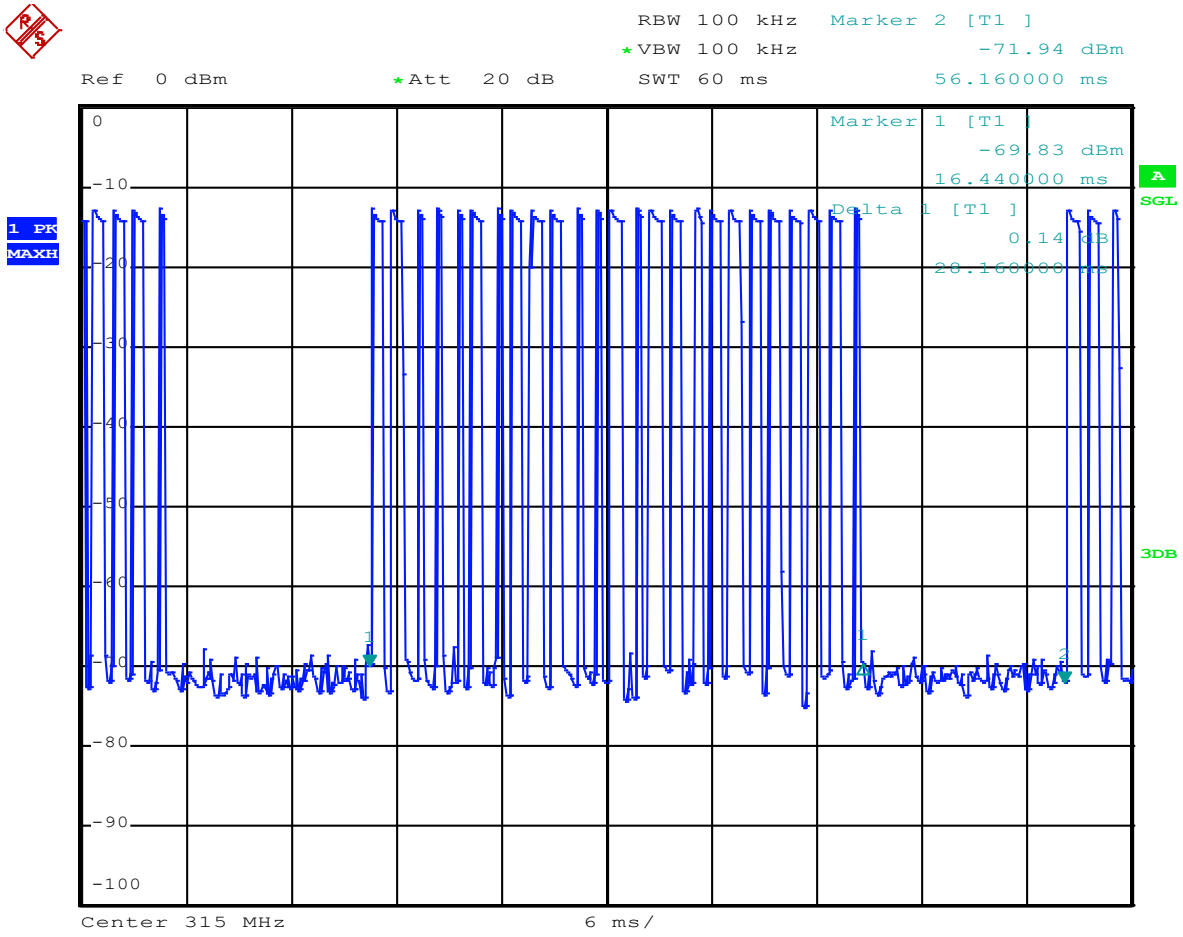
Testing Plots:



Date: 16.APR.2026 20:53:17

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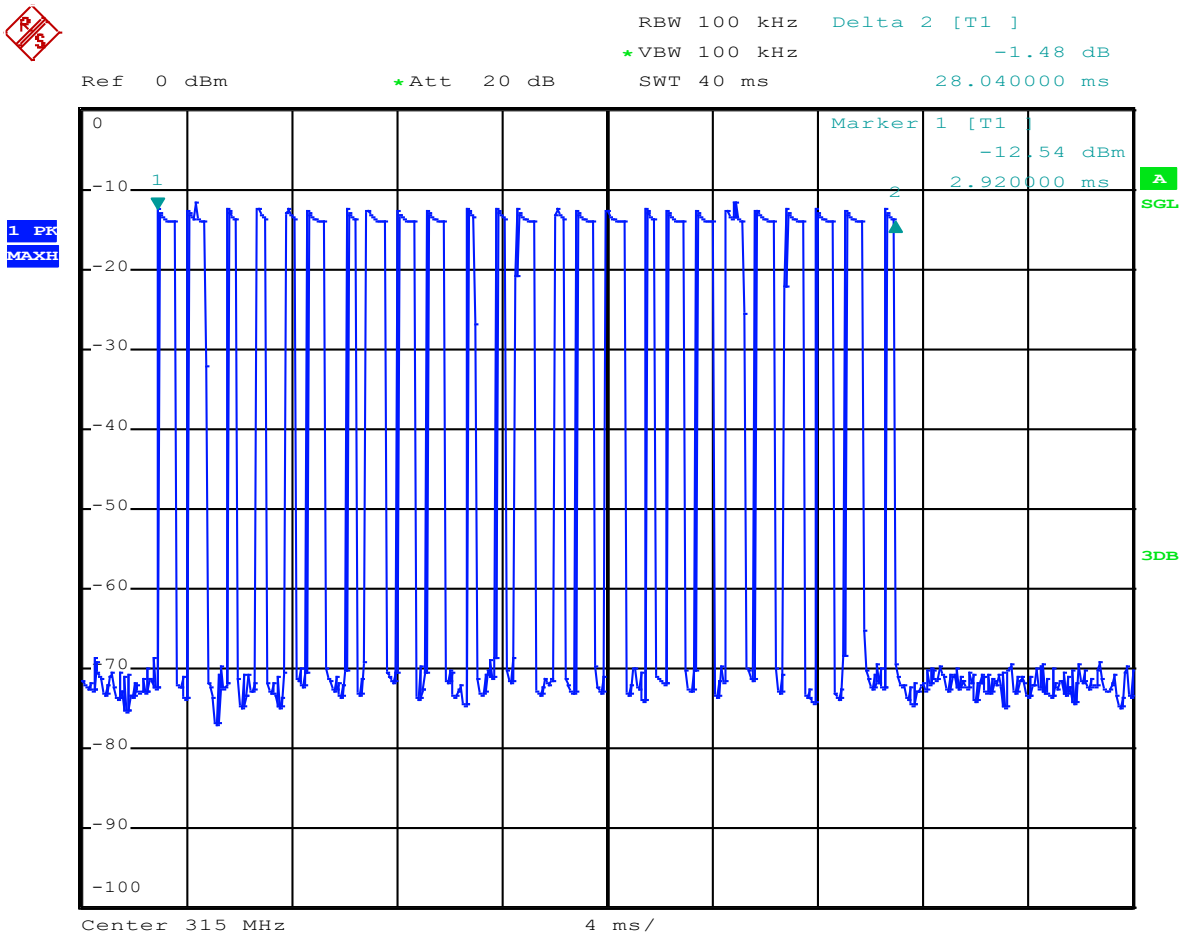

Date: 16.APR.2026 20:53:56

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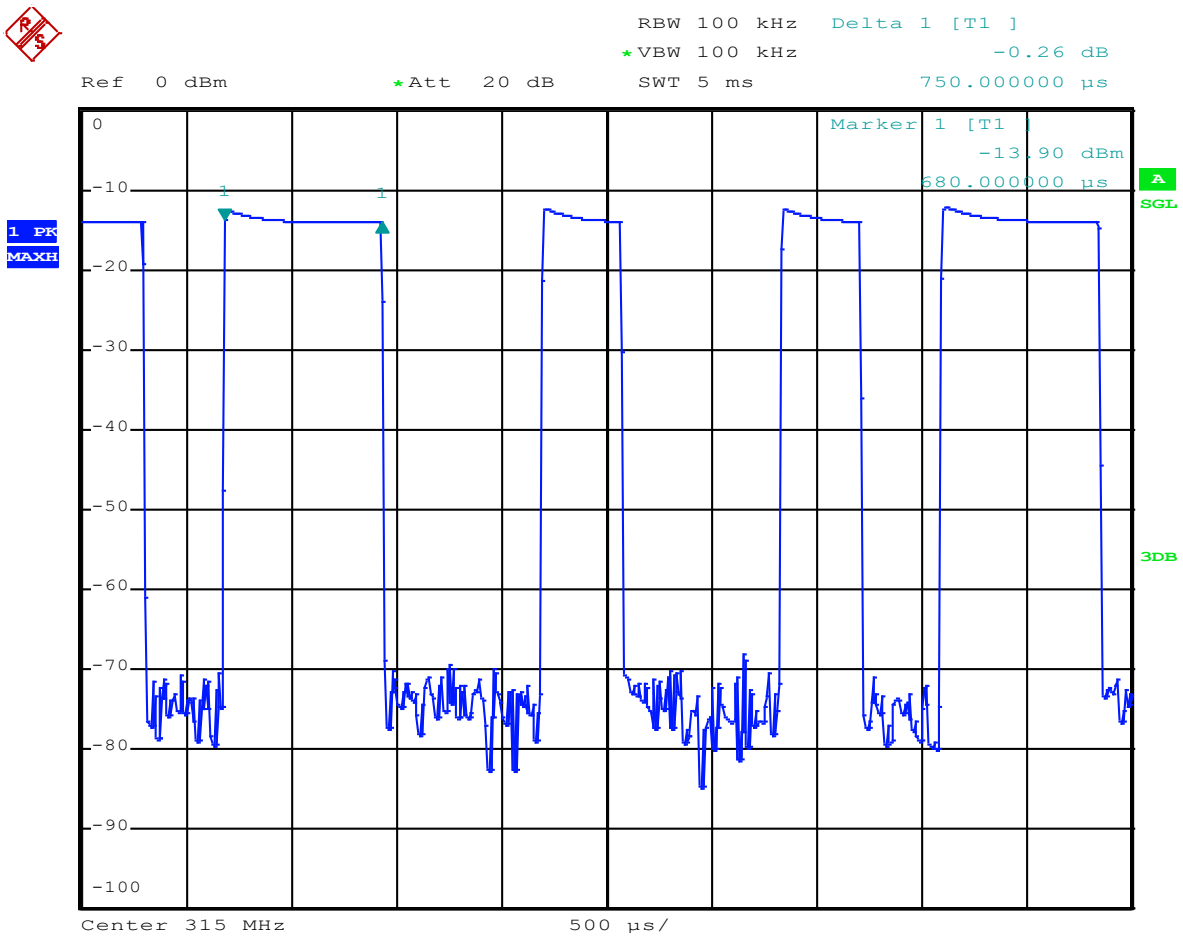
T_{on1}



Date: 16.APR.2026 20:55:24

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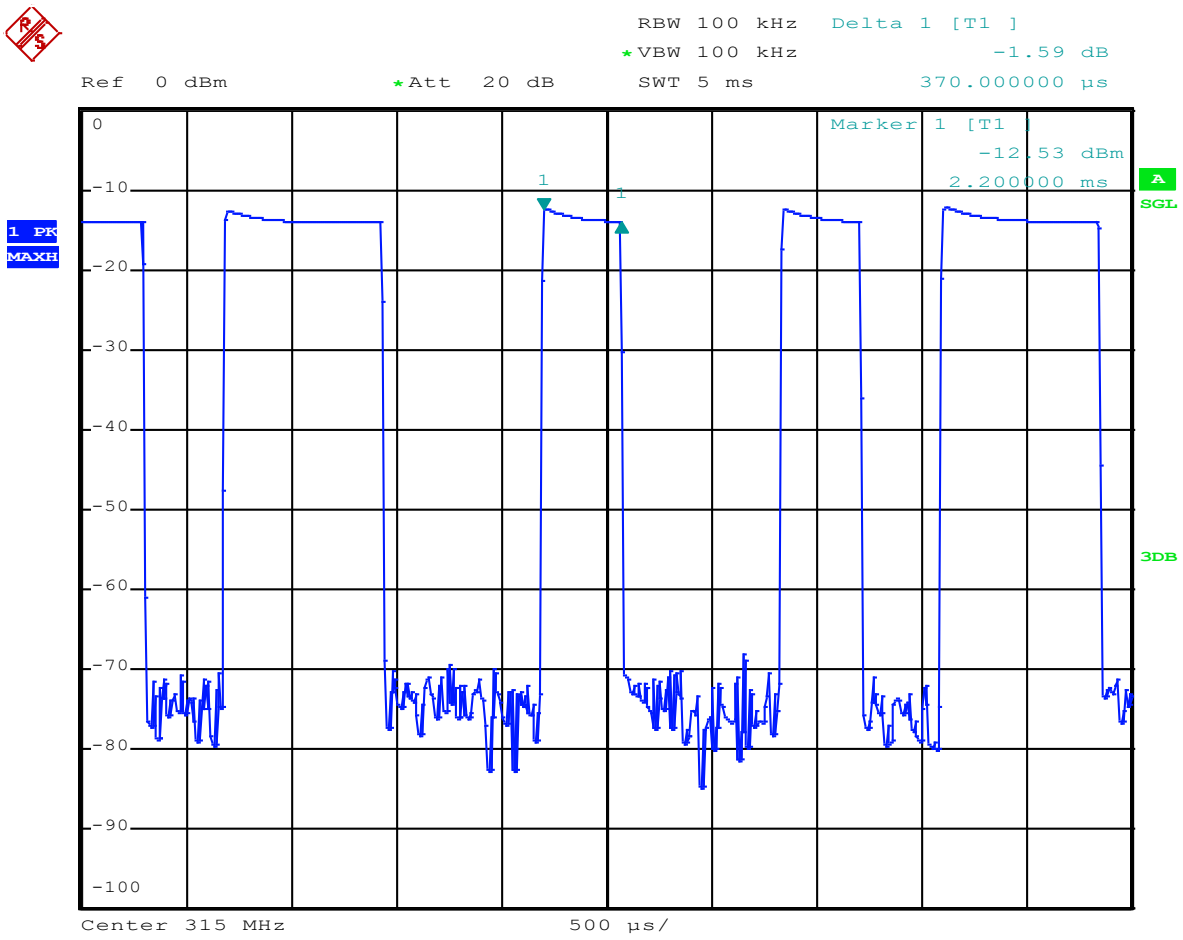
T_{on2}



Date: 16.APR.2026 20:55:44

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10.0 **Antenna Requirement**

10.1 Standard Applicable

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 Sections 15.211, 15.213, 15.217, 15.219, or 15.221. 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 Section 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.

10.2 Antenna Connected constructions

The antenna is PCB Printed antenna which is built-in. The antenna gain is 0dBi. So, it meets the requirement of 15.203

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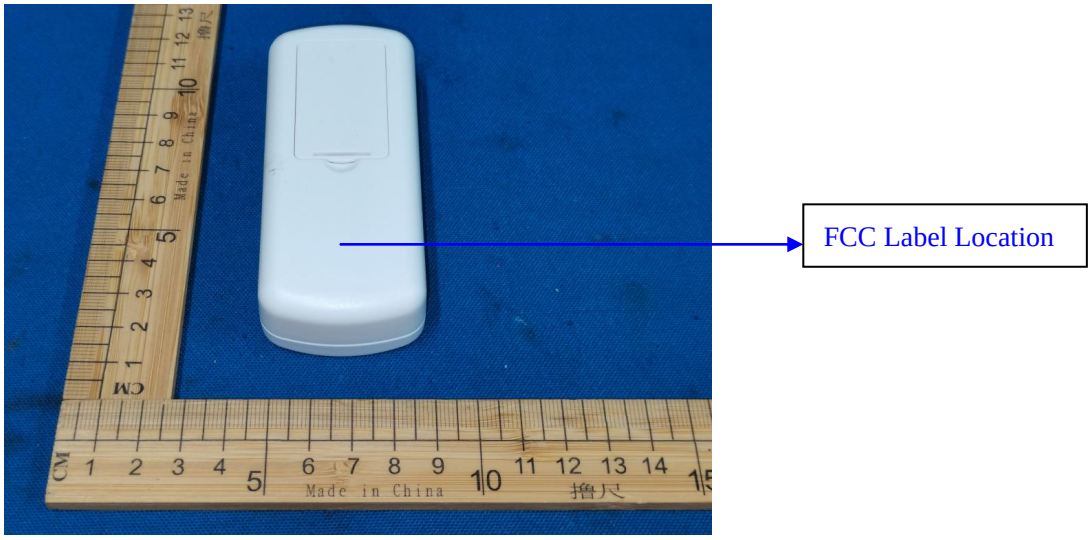
11.0 FCC ID Label

FCC ID: 2BVHX-CD-0328A

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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12.0 Photo of testing

12.1 Conducted test View—N/A

12.2 Radiated emission test view

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Photo for the EUT

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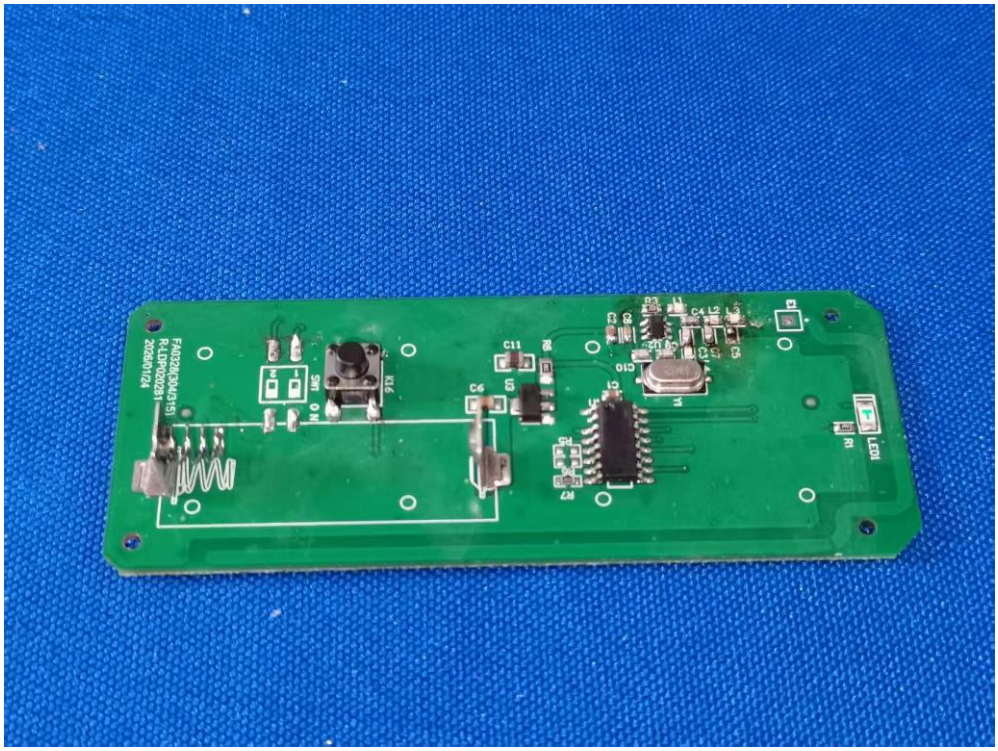

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