

Test Report

Test Report
On Behalf of
CrowdSync Technology LLC
For
CrowdController 2
Model No.: CST-DMX2

FCC ID: 2BQZV-CST-DMX2

Prepared For: **CrowdSync Technology LLC**
247 Centre Street Floor 4R, New York, NY, 10013, United States

Prepared By: **Shenzhen HUAKE Testing Technology Co., Ltd.**
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Date of Test: **Apr. 15, 2026 ~ Apr. 27, 2026**

Date of Report: **Apr. 27, 2026**

Report Number: **HK2506253394-E**

Test Result Certification

Applicant's Name: CrowdSync Technology LLC

Address: 247 Centre Street Floor 4R, New York, NY, 10013, United States

Manufacturer's Name: CrowdSync Technology LLC

Address: 247 Centre Street Floor 4R, New York, NY, 10013, United States

Product Description

Trade Mark: N/A

Product Name: CrowdController 2

Model and/or Type Reference ..: CST-DMX2

Standards: **FCC Rules and Regulations Part 15 Subpart C Section 15.249**
ANSI C63.10: 2020

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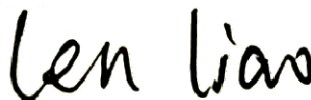
Date of Test.....:

Date (s) of Performance of Tests: **Apr. 15, 2026 ~ Apr. 27, 2026**

Date of Issue: **Apr. 27, 2026**

Test Result: **Pass**

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou



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**** Issued History ****

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	Apr. 27, 2026	Jason Zhou



1 Summary

1.1 Test Procedures and Results

Test Item	Test Requirement	Result
Conducted Emission	FCC Part 15.207	PASS
Radiated Emissions	FCC Part 15.249(a)/15.209	PASS
Band Edge	FCC Part 15.249(d)/15.205	PASS
Occupied Bandwidth	15.215(c)	PASS
Antenna Requirement	FCC Part 15.203	PASS
Field Strength of Fundamental	FCC Part 15.249(a)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

No.	Item	MU
1	Conducted Emission 0.15~30MHz	$\pm 2.22\text{dB}$
2	All Emissions, Radiated(<1G)	$\pm 3.60\text{dB}$
3	All Emissions, Radiated(1-18G)	$\pm 3.86\text{dB}$
4	All Emissions, Radiated(18-40G)	$\pm 4.76\text{dB}$
5	Occupied Bandwidth	$\pm 3.68\%$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

1.3 Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



2 General Information

2.1 General Description of EUT

EUT Name:	CrowdController 2
Model No:	CST-DMX2
Series Model(s):	N/A
Model Difference:	N/A
Operation Frequency:	915MHz
Modulation Technology:	OOK
Hardware Version:	V1.0
Firmware Version:	V1.0
Antenna Type:	External antenna
Antenna Gain:	3.05dBi
Power Supply:	DC6V, 1000mA from adapter with AC100-240V, 50/60Hz, 0.65A Max
Note: 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.	

2.2 Carrier Frequency of Channels

Description of Channel	
Channel	Frequency (MHz)
01	915

2.3 Operation of EUT during Testing

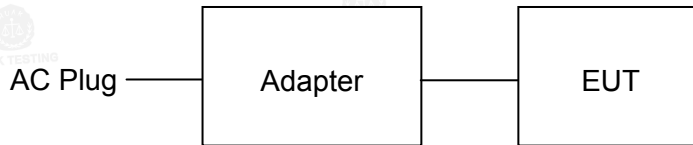
Operating Mode

The mode is used: **Transmitting mode**

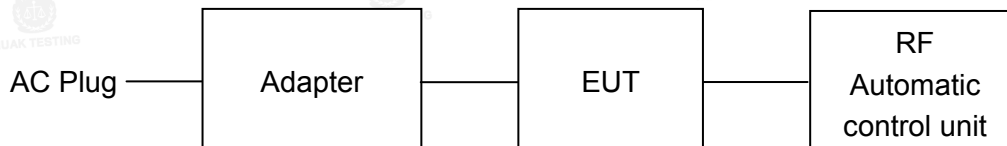
Test Channel: 915MHz

2.4 Description of Test Setup

Operation of EUT during AC Conducted and Radiation testing:



Operation of EUT during RF Conducted testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The report only reflects the worst emission test results. The worst case is X position.

2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	CrowdController 2	N/A	CST-DMX2	N/A	EUT
2	Adapter	N/A	ZF-0601000	Input: AC100-240V, 50/60Hz, 0.65A Max Output: DC6V, 1000mA	

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



2.6 Equipments List for All Test Items

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2026/02/11	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2026/02/04	1 Year
3	EMI Test Receiver	R&S	ESR-7	HKE-005	2026/02/06	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2026/02/06	1 Year
5	Spectrum analyzer	KEYSIGHT	N9020A	HKE-117	2026/02/06	1 Year
6	Spectrum analyzer	R&S	FSV3044	HKE-126	2026/02/06	1 Year
7	Preamplifier	Schwarzbeck	EMC051845S E	HKE-006	2026/02/04	1 Year
8	Preamplifier	Agilent	83051A	HKE-016	2026/02/04	1 Year
9	Preamplifier	A.H. Systems	SAS-574	HKE-182	2026/02/04	1 Year
10	6dB Attenuator	Pasternack	6dB	HKE-152	2026/02/06	1 Year
11	EMI Test Receiver	R&S	ESR-7	HKE-010	2026/02/06	1 Year
12	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2026/02/06	2 Year
13	Loop Antenna	COM-POWER	AL-130R	HKE-014	2026/02/06	2 Year
14	Horn Antenna	Schwarzbeck	9120D	HKE-013	2026/02/06	2 Year
15	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
16	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
17	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2026/02/06	1 Year
18	High pass filter unit	Tonscend	JS0806-F	HKE-055	2026/02/06	1 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2026/02/06	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/06/09	1 Year
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2026/02/04	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/



3 AC Conducted Emissions Test

3.1 AC Conduction Power Line Emission Limit

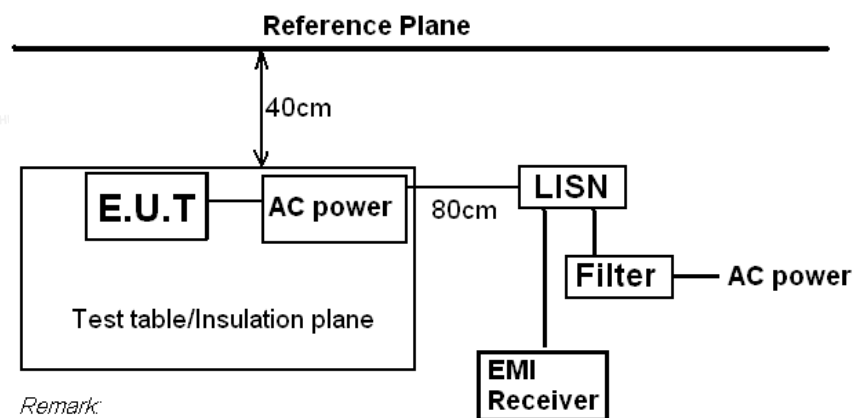
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

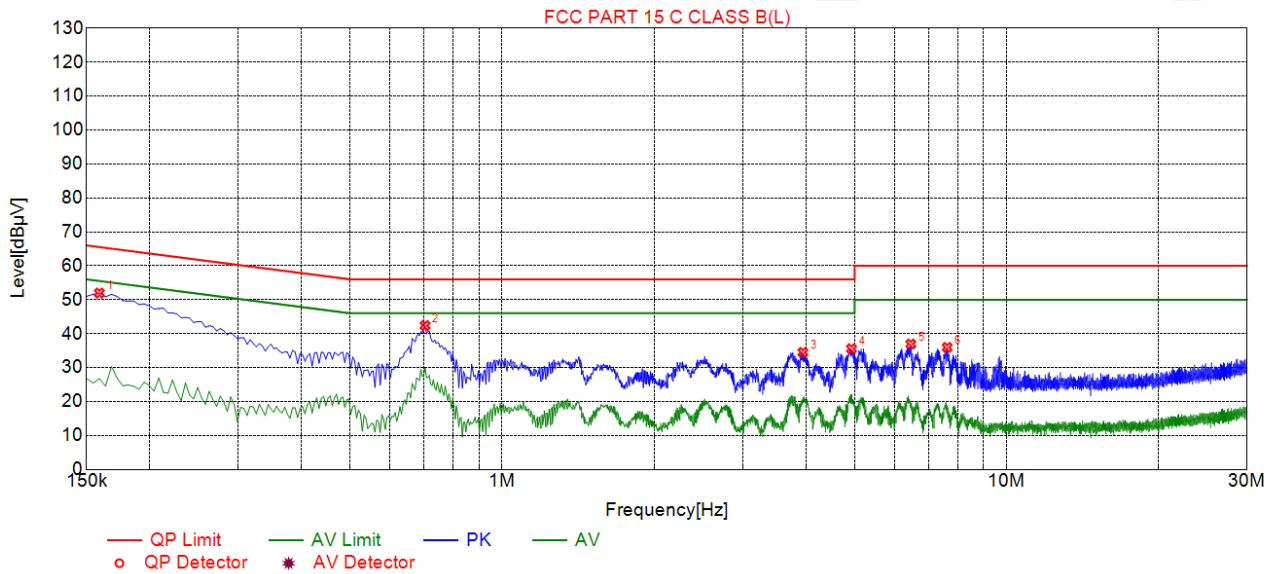
3.3 Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

3.4 Test Data

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



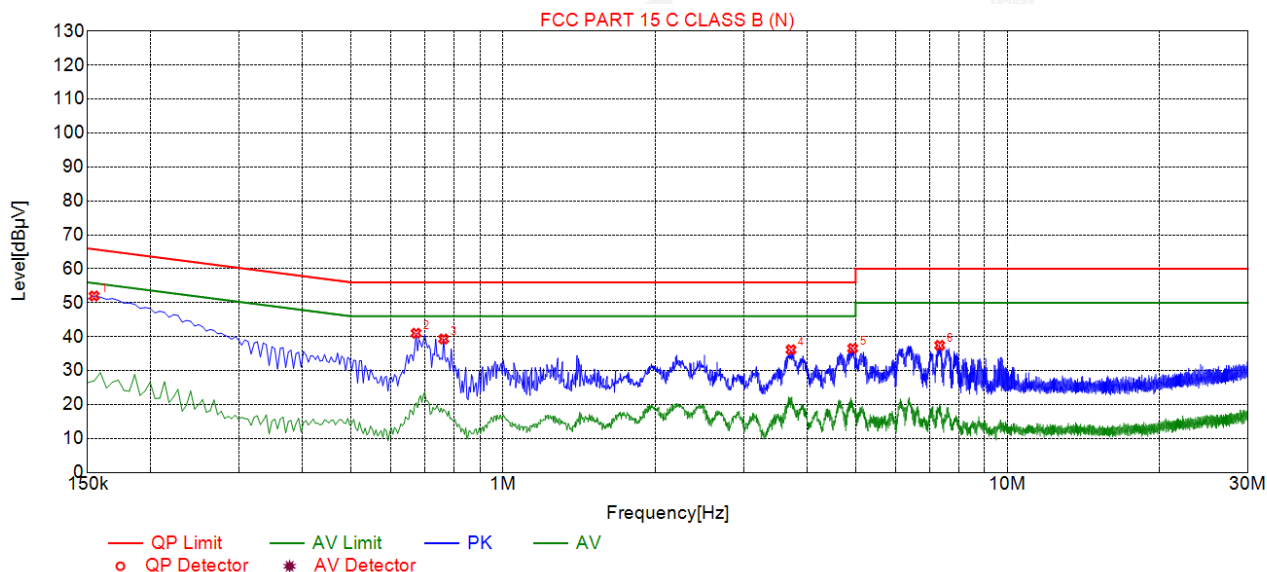
Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	51.97	19.83	65.52	13.55	32.14	PK	L
2	0.7035	42.39	19.95	56.00	13.61	22.44	PK	L
3	3.9480	34.49	20.19	56.00	21.51	14.30	PK	L
4	4.9290	35.56	20.23	56.00	20.44	15.33	PK	L
5	6.4635	36.97	20.29	60.00	23.03	16.68	PK	L
6	7.6290	35.96	20.50	60.00	24.04	15.46	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	51.98	19.93	65.75	13.77	32.05	PK	N
2	0.6720	41.02	19.95	56.00	14.98	21.07	PK	N
3	0.7620	39.32	19.95	56.00	16.68	19.37	PK	N
4	3.7230	36.16	20.19	56.00	19.84	15.97	PK	N
5	4.9335	36.55	20.35	56.00	19.45	16.20	PK	N
6	7.3410	37.43	20.75	60.00	22.57	16.68	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4 Field Strength of Fundamental

4.1 Limit

FCC§15.249(a);

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

4.2 Test Procedure

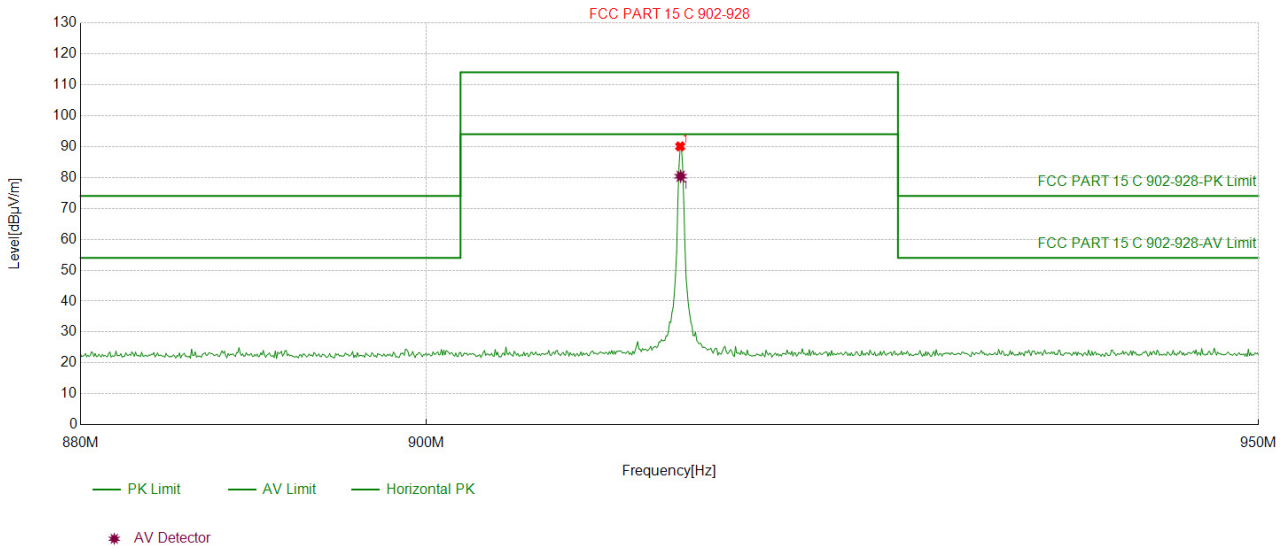
1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 18GHz per FCC PART 15.33(a).

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.3 Test Data

Antenna polarity: Horizontal



Suspected Data List

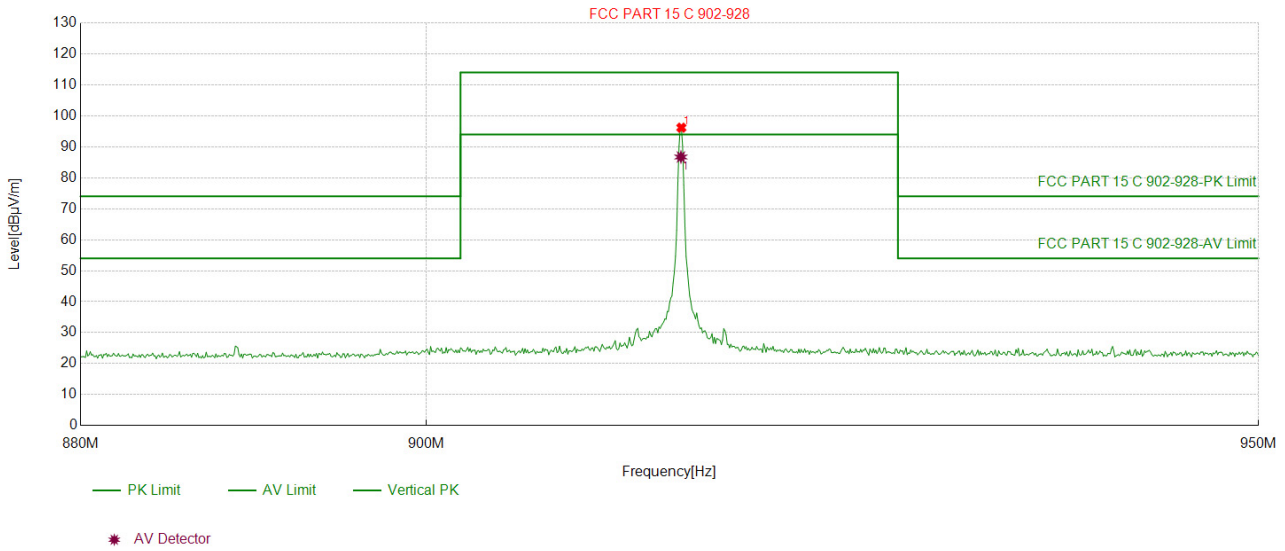
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	914.965	91.26	90.04	-1.22	114.00	23.96	100	188	Horizontal

AV Final Data List

NO	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	914.992	-1.22	80.39	94.00	13.61	100	188	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	915.035	97.39	96.18	-1.21	114.00	17.82	100	269	Vertical

AV Final Data List

NO	Freq. [MHz]	Factor [dB]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	915.009	-1.21	86.71	94.00	7.29	100	269	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



5 Radiated Emissions Measurement

5.1 Radiation Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

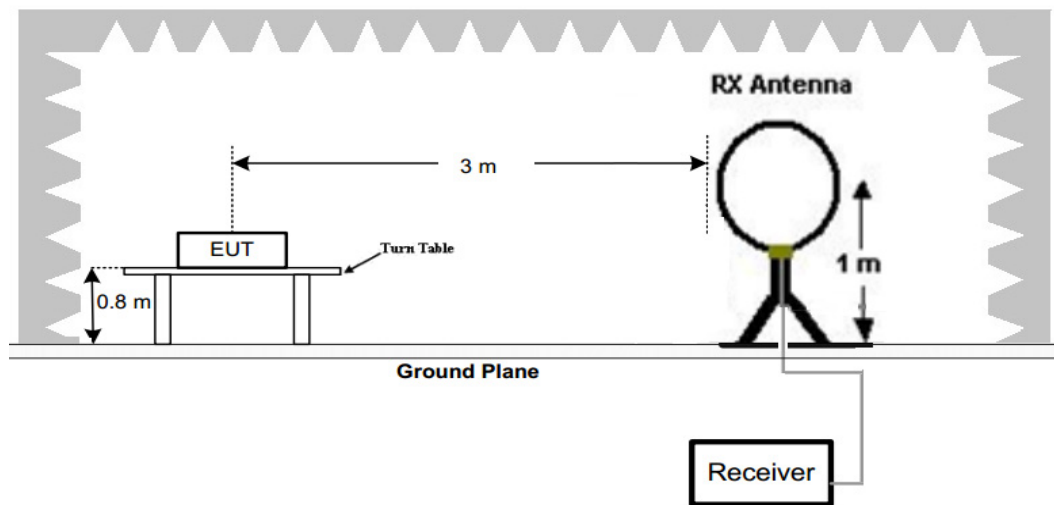
Radiated Emission Limits

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.490	300	$20\log 2400/F$ (kHz)	$2400/F$ (kHz)
0.490-1.705	30	$20\log 24000/F$ (kHz)	$24000/F$ (kHz)
1.705-30	30	$20\log 30$	30
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

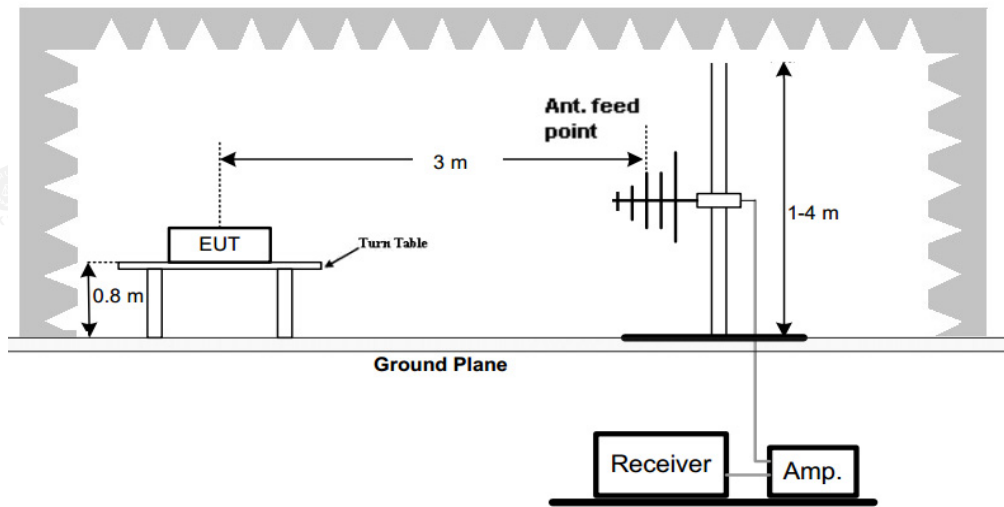
5.2 Test Setup

Test Configuration:

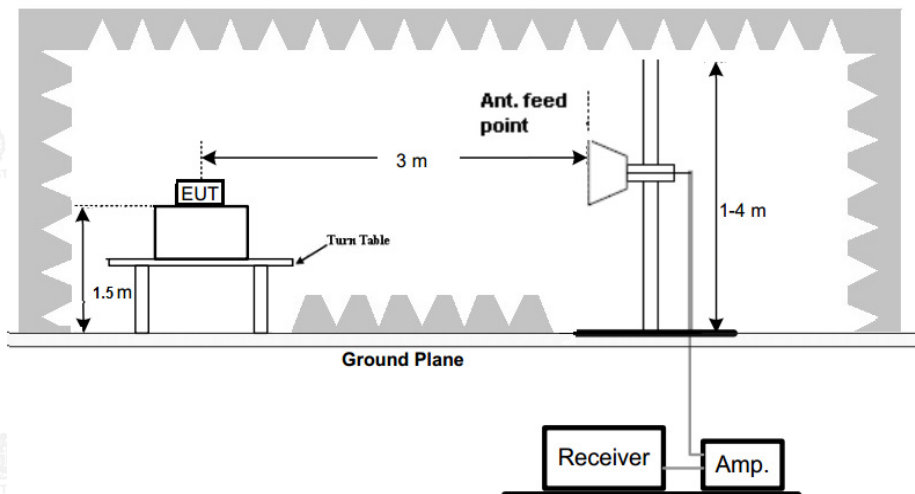
- 1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 18 GHz emissions:



Test Procedure

1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The test frequency range from 9KHz to 18GHz per FCC PART 15.33(a).

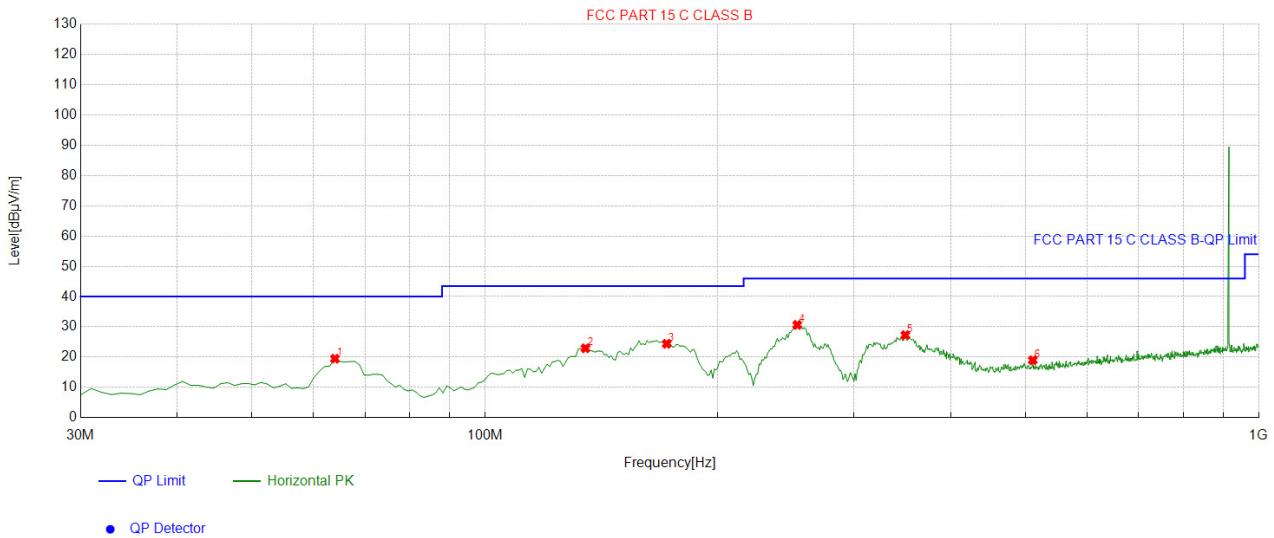
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5.3 Test Data

Below 1GHz Test Data

All modes have been tested, only the worst mode of GFSK Low channel TX is reflected.

Antenna polarity: Horizontal

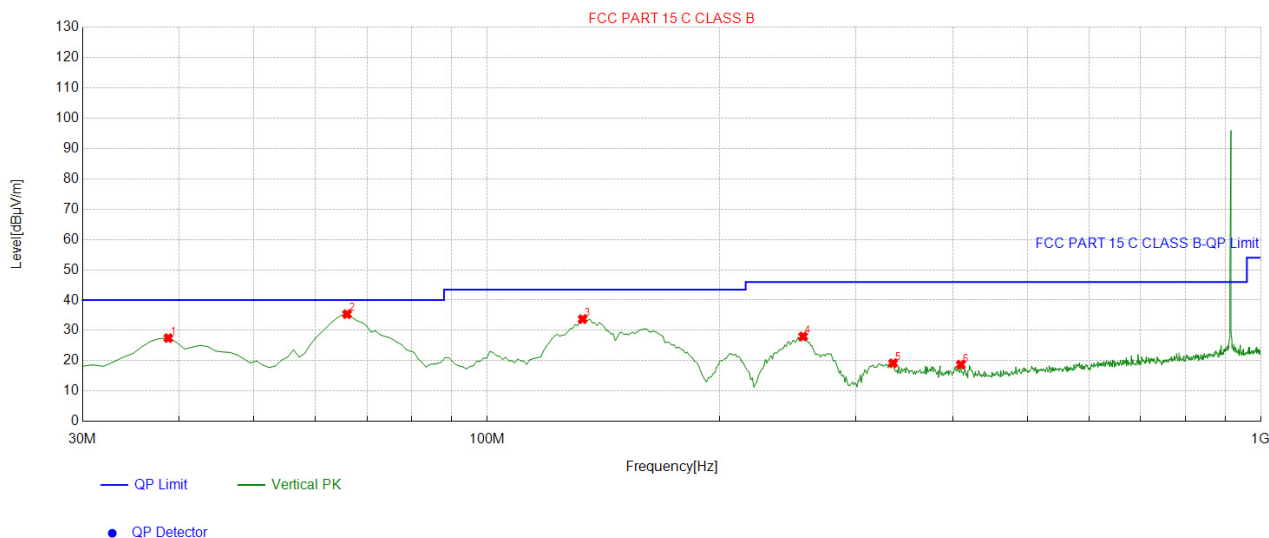


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.984	-14.88	34.37	19.49	40.00	20.51	100	205	Horizontal
2	134.865	-18.21	41.14	22.93	43.50	20.57	100	300	Horizontal
3	171.762	-17.01	41.43	24.42	43.50	19.08	100	88	Horizontal
4	253.323	-13.00	43.66	30.66	46.00	15.34	100	292	Horizontal
5	349.449	-10.54	37.82	27.28	46.00	18.72	100	88	Horizontal
6	510.631	-7.45	26.45	19.00	46.00	27.00	100	186	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.739	-13.91	41.40	27.49	40.00	12.51	100	360	Vertical
2	65.926	-15.37	50.75	35.38	40.00	4.62	100	250	Vertical
3	132.923	-18.03	51.76	33.73	43.50	9.77	100	199	Vertical
4	256.236	-12.89	40.91	28.02	46.00	17.98	100	43	Vertical
5	334.885	-11.01	30.20	19.19	46.00	26.81	100	106	Vertical
6	409.650	-9.41	28.15	18.74	46.00	27.26	100	313	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note:1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

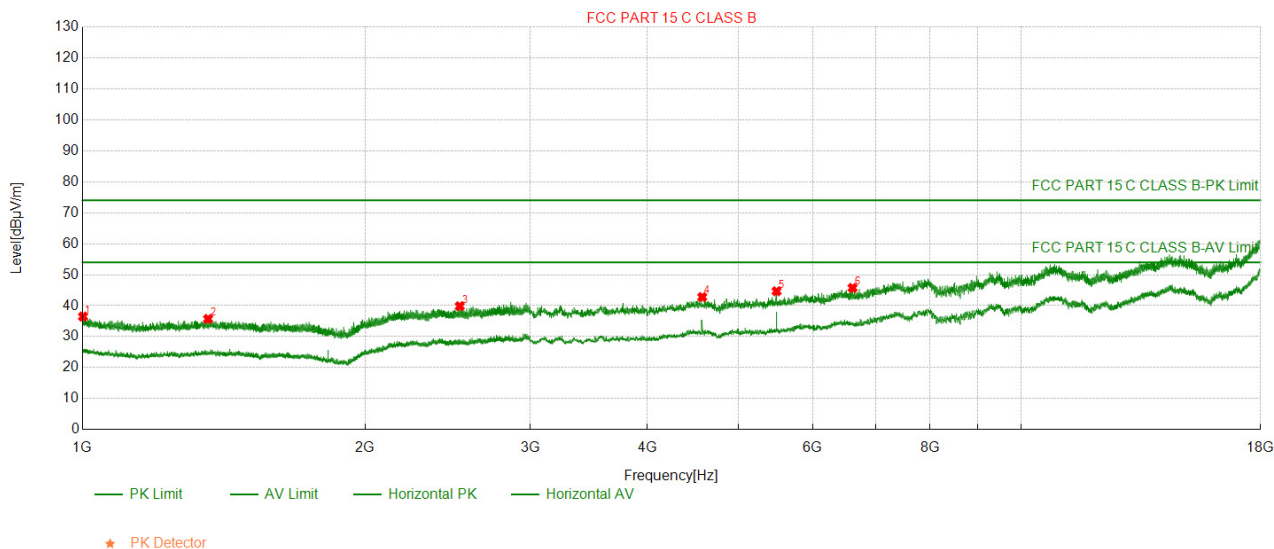
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

Above 1GHz Test Data

All the test modes completed for test. Only the worst result was reported as below:

For 1GHz to 18GHz

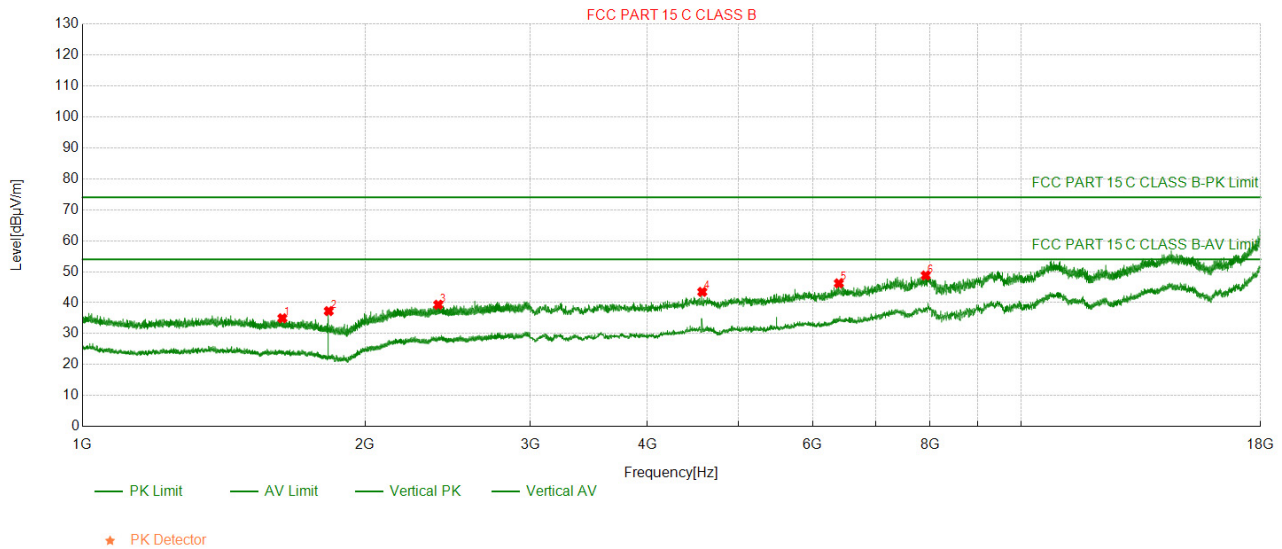
Antenna polarity: Horizontal



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1001.400	54.46	36.49	-17.97	74.00	37.51	150	332	Horizontal
2	1360.836	53.91	35.73	-18.18	74.00	38.27	150	284	Horizontal
3	2523.552	54.52	39.83	-14.69	74.00	34.17	150	218	Horizontal
4	4575.158	53.04	42.80	-10.24	74.00	31.20	150	213	Horizontal
5	5490.249	53.71	44.66	-9.05	74.00	29.34	150	32	Horizontal
6	6615.362	51.81	45.74	-6.07	74.00	28.26	150	359	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	PK Level [dBμV/m]	Factor [dB]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1633.063	53.47	34.97	-18.50	74.00	39.03	150	328	Vertical
2	1829.883	55.11	37.30	-17.81	74.00	36.70	150	304	Vertical
3	2394.139	53.71	39.34	-14.37	74.00	34.66	150	142	Vertical
4	4575.158	53.73	43.49	-10.24	74.00	30.51	150	344	Vertical
5	6396.340	52.95	46.24	-6.71	74.00	27.76	150	169	Vertical
6	7915.992	51.58	48.79	-2.79	74.00	25.21	150	44	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



6 Band Edge

6.1 Limit

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

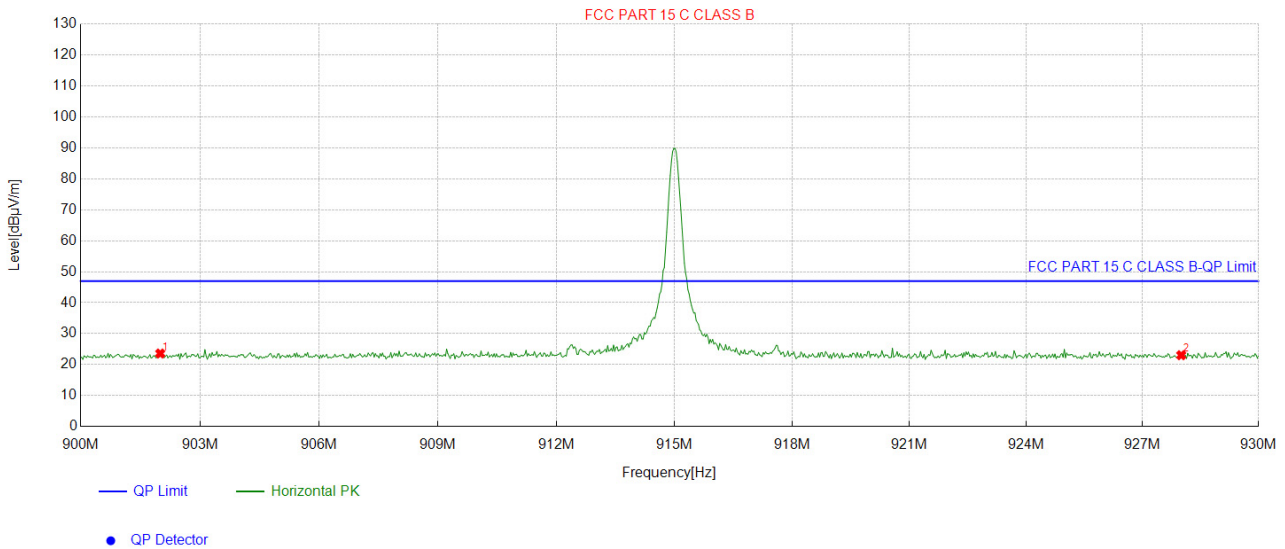
6.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength.

6.3 Test Data

Operation Mode: TX CH Low (915MHz)

Antenna polarity: Horizontal

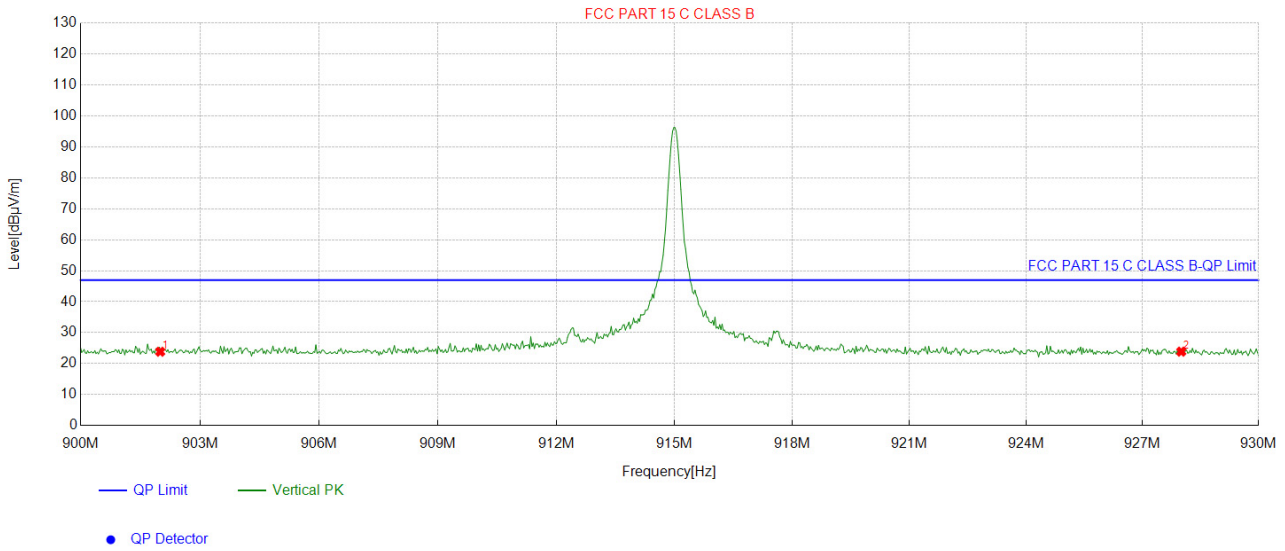


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	902.000	-1.36	24.97	23.61	47.00	23.39	100	230	Horizontal
2	928.000	-1.04	24.09	23.05	47.00	23.95	100	234	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Antenna polarity: Vertical



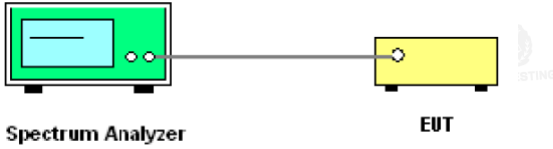
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	902.000	-1.36	25.21	23.85	47.00	23.15	100	299	Vertical
2	928.000	-1.04	24.92	23.88	47.00	23.12	100	288	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

7 Occupied Bandwidth Measurement

7.1 Test Setup



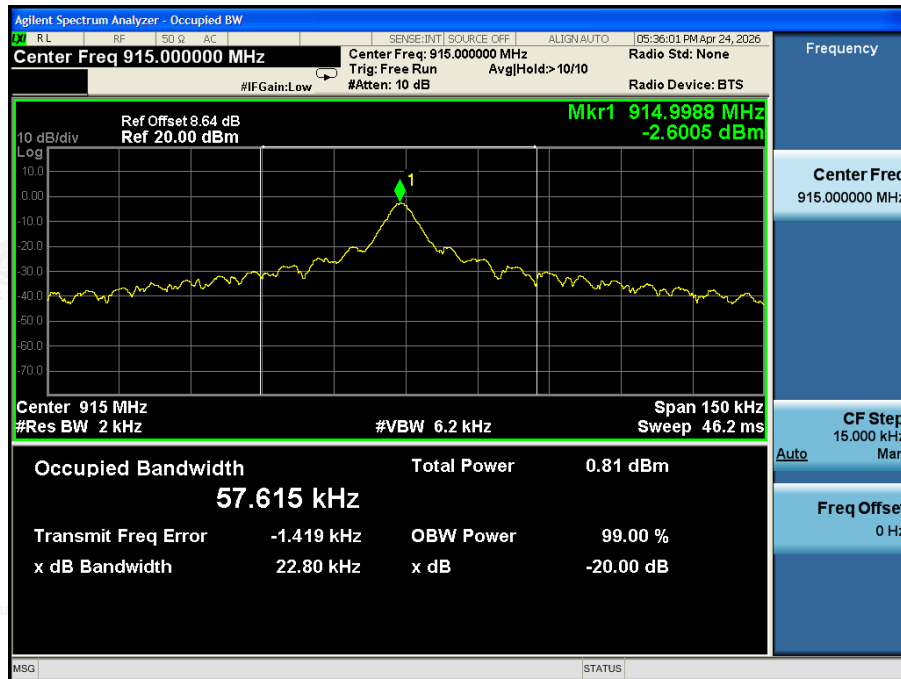
7.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on ANSI C63.10 section 6.9.2: RBW=1% to 5% of the OBW, VBW $\geq 3 \times$ RBW.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

7.3 Test Data

Frequency	20dB Bandwidth (MHz)	Result
915 MHz	0.02280	PASS

CH01: 915MHz



8 Antenna Requirement

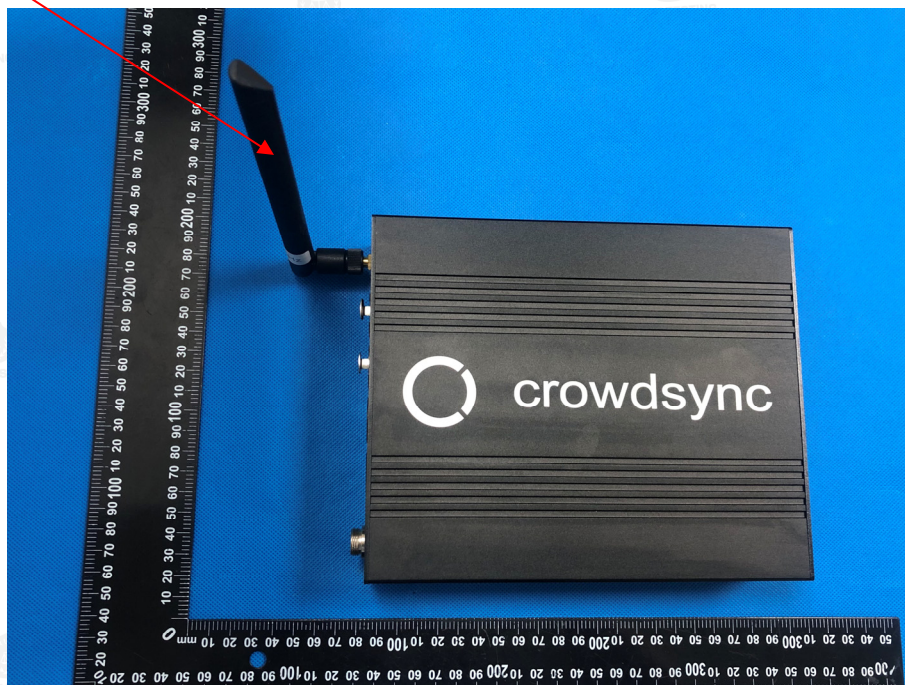
Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

Antenna Connected Construction

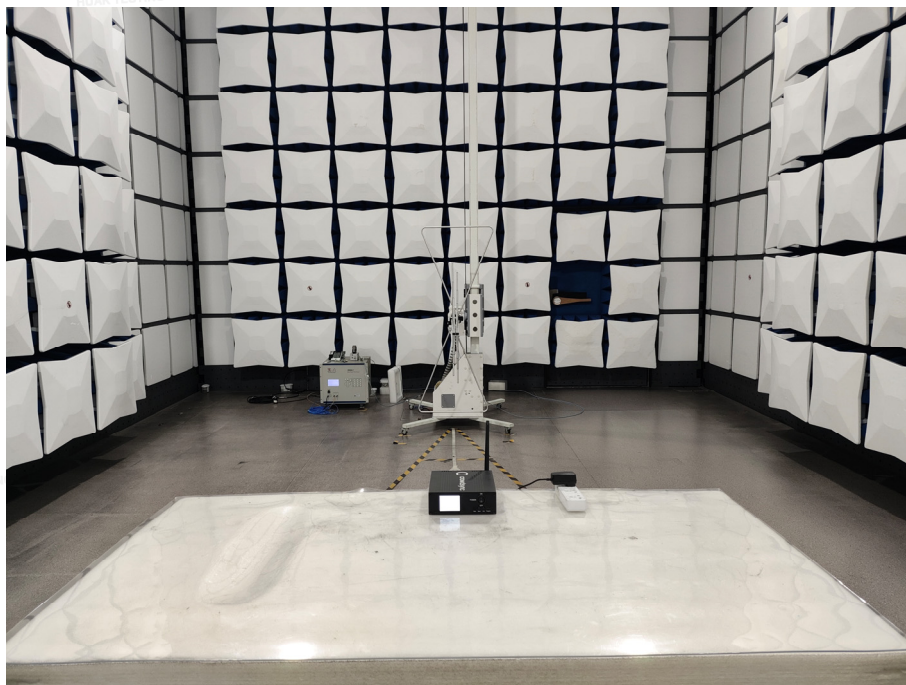
The antenna used in this product is an External Antenna, with non-standard SMA connector, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.05dBi.

Antenna



9 Test Setup Photos

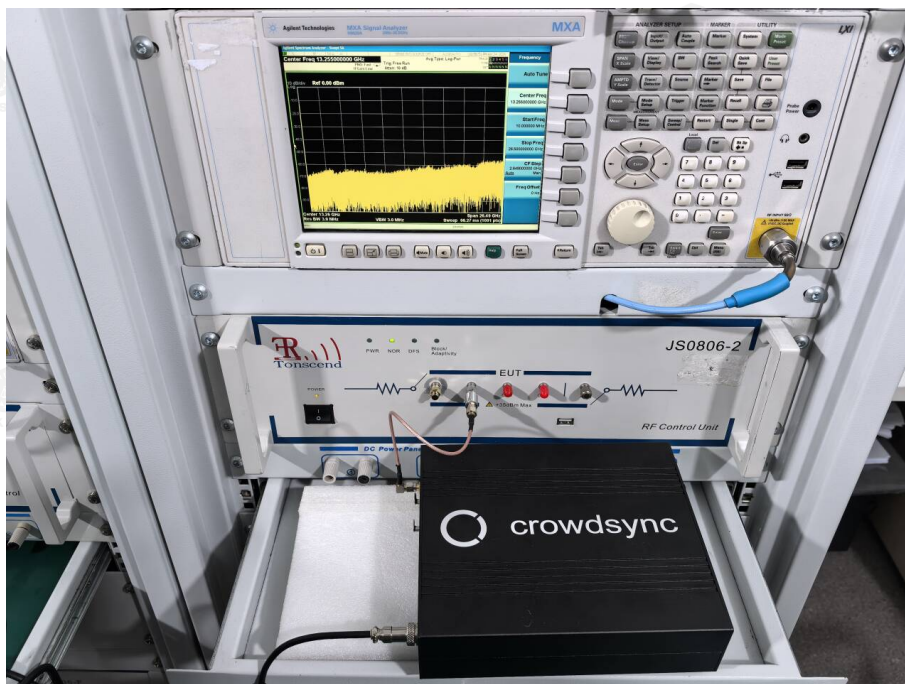
Radiated Emission



AC Conducted Emission



RF Conducted Emission



10 Photos of the EUT

Reference to the reporter: ANNEX A of external photos and ANNEX B of internal photos

-----End of test report-----