



FCC Test Report

**Test Report
On Behalf of
Shenzhen Smart Care Technology Limited
For
ERABUDS**

**Model No.: X5L, AuraBuds x5, X6, X6L, AuraBuds x6, RN01, Pulse 01,
RN02, Pulse 02, RN03, Pulse 03, RN04, Pulse 04, AE0325, Zen01, X5**

FCC ID:2AKUO-X5L

**Prepared For: Shenzhen Smart Care Technology Limited
The 6rd Floor,Block 2, An'da Industrial Park, Heping Road,Heping Community,
Fuhai Street, Bao'an District, Shenzhen, China**

**Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai
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**Date of Test: June 11, 2025 ~ July 31, 2025
Date of Report: July 31, 2025
Report Number: HK2506113090-2E**

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Test Result Certification

Applicant's Name

Shenzhen Smart Care Technology Limited

Address

The 6rd Floor,Block 2, An'da Industrial Park, Heping Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Manufacturer's Name

Shenzhen Smart Care Technology Limited

Address

The 6rd Floor,Block 2, An'da Industrial Park, Heping Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

Product Description

Trade Mark

AURAFIT

Product Name

ERABUDS

Model and/or Type Reference....

X5L, AuraBuds x5, X6, X6L, AuraBuds x6, RN01, Pulse 01, RN02, Pulse 02, RN03, Pulse 03, RN04, Pulse 04, AE0325, Zen01, X5

Standards

47 CFR FCC Part 15 Subpart C 15.247

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Date of Test

Date (s) of Performance of Tests

June 11, 2025 ~ July 31, 2025

Date of Issue.....

July 31, 2025

Test Result.....

Pass

Testing Engineer



Len Liao

Technical Manager



Sliver Wan

Authorized Signatory



Jason Zhou



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	July 31, 2025	Jason Zhou



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1. Summary

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10:2020: American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.215	20dB Bandwidth& 99% Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247 (a) (1)	Pseudorandom Frequency Hopping Sequence	PASS
FCC Part 15.247(a)(1)(iii)	Number of Hopping Frequency& Time of Occupancy	PASS
FCC Part 15.247(a)(1)	Frequency Separation	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS



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1.3. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

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

1.4. Statement of the Measurement Uncertainty

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

Test	Measurement Uncertainty
Transmitter power conducted	±0.37dB
Transmitter power Radiated	±3.35dB
Conducted spurious emission 9KHz-40 GHz	±2.20dB
Occupied Bandwidth	±3.68%
Radiated Emission 30~1000MHz	±3.90dB
Radiated Emission Above 1GHz	±4.28dB
Conducted Disturbance0.15~30MHz	±2.71dB

2. General Information

2.1. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	ERABUDS
Model/Type Reference:	X5L
Series Model:	AuraBuds x5, X6, X6L, AuraBuds x6, RN01, Pulse 01, RN02, Pulse 02, RN03, Pulse 03, RN04, Pulse 04, AE0325, Zen01, X5
Model Difference:	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: X5L.
Power Supply:	DC5V From Charge Case or DC3.7V From Battery
Version:	Supported EDR
Modulation:	GFSK, $\pi/4$ DQPSK
Operation Frequency:	2402MHz~2480MHz
Channel Number:	79
Channel Separation:	1MHz
Antenna Type:	Ceramic Antenna
Antenna Gain:	1.75dBi
Hardware Version:	V11
Software Version:	V11

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.
5. This report presents data from the Right ear.



2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

There are 79 channels provided to the EUT and Channel 00/39/78 was selected for testing.

Operation Frequency:

Channel	Frequency (MHz)
00	2402
01	2403
:	:
38	2440
39	2441
40	2442
:	:
77	2479
78	2480

Note: The line display in grey were the channel selected for testing

Preliminary tests were performed in each mode and packet length of BT, and found worst case as bellow, finally test were conducted at those mode and recorded in this report.

Test Items	Worst Case
AC Conducted Emissions	Charging mode
Radiated Emissions and Band Edge	DH5 low channel
Maximum Conducted Output Power	DH5/2DH5
20dB Bandwidth & 99% Bandwidth	DH5/2DH5
Frequency Separation	DH5/2DH5 Middle channel
Number of hopping frequency	DH5/2DH5
Time of Occupancy (Dwell Time)	DH1/DH3/DH5 Middle channel 2DH1/2DH3/2DH5 Middle channel
Out-of-band Emissions	DH5/2DH5



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2.4. Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2025/02/19	1 Year
5	Spectrum analyzer	Agilent	N9020A	HKE-117	2025/02/19	1 Year
6	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	1 Year
7	Preamplifier	EMCI	EMC051845S	HKE-006	2025/02/19	1 Year
8	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	1 Year
9	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	1 Year
10	6dB Attenuator	Paternack	6db	HKE-184	2025/02/19	1 Year
11	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	1 Year
12	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2 Year
13	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
14	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	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	2025/02/19	1 Year
18	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	1 Year
19	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	1 Year
20	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	1 Year
21	High-low temperature chamber	Guangke	HT-80L	HKE-118	2025/06/09	1 Year
22	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	1 Year
23	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/
24	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2025/02/19	1 Year
25	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	/	/

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2.5. Related Submittal(s) / Grant (s)

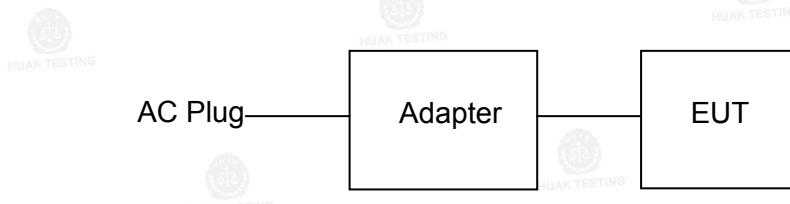
This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria

2.7. Description of Test Setup

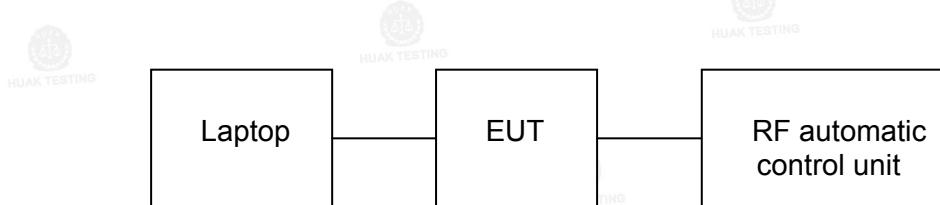
Operation of EUT during AC Conducted testing and below 1GHz Radiation testing:



Operation of EUT during above 1GHz 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 emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

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2.8. 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	ERABUDS	AURAFIT	X5L	N/A	EUT
2	Adapter	N/A	MDY-10-EH	Input: 100-240VAC, 50/60Hz, 0.7A Output: 5V 3A/9V 3A/12V 2.25A/20V 1.35A	Peripheral
3	Laptop	Lenovo	Thinkpad E450	Input: 20V 2.25A/3.25A	Peripheral

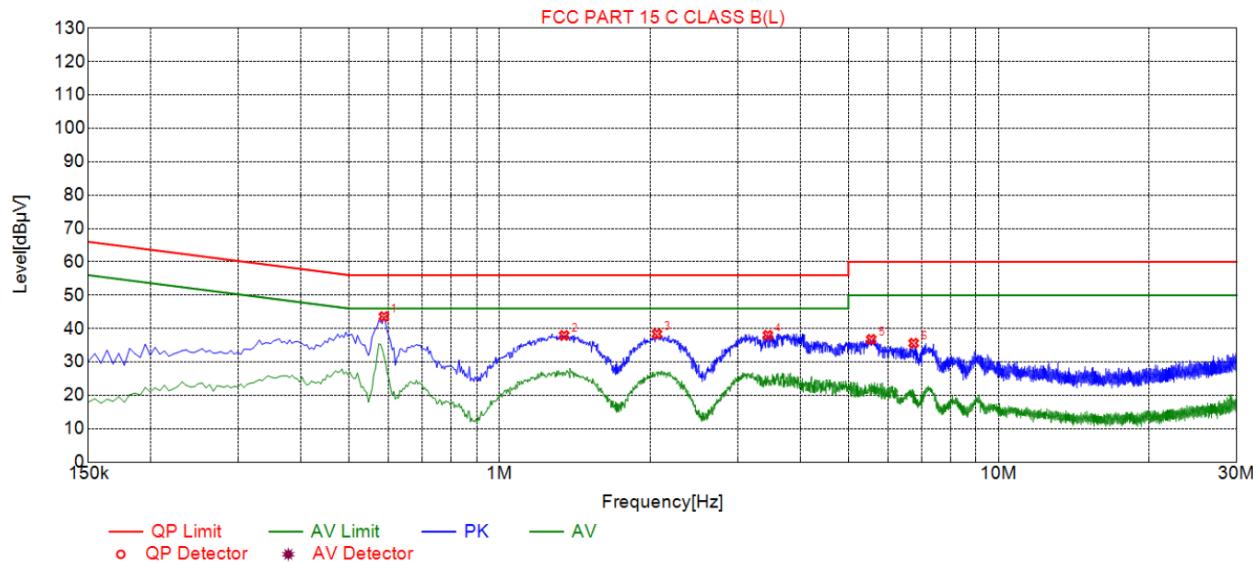
Note:

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.

Test Results

All modes have been tested, only the worst result was reported as below:

Test Specification: Line



Suspected List

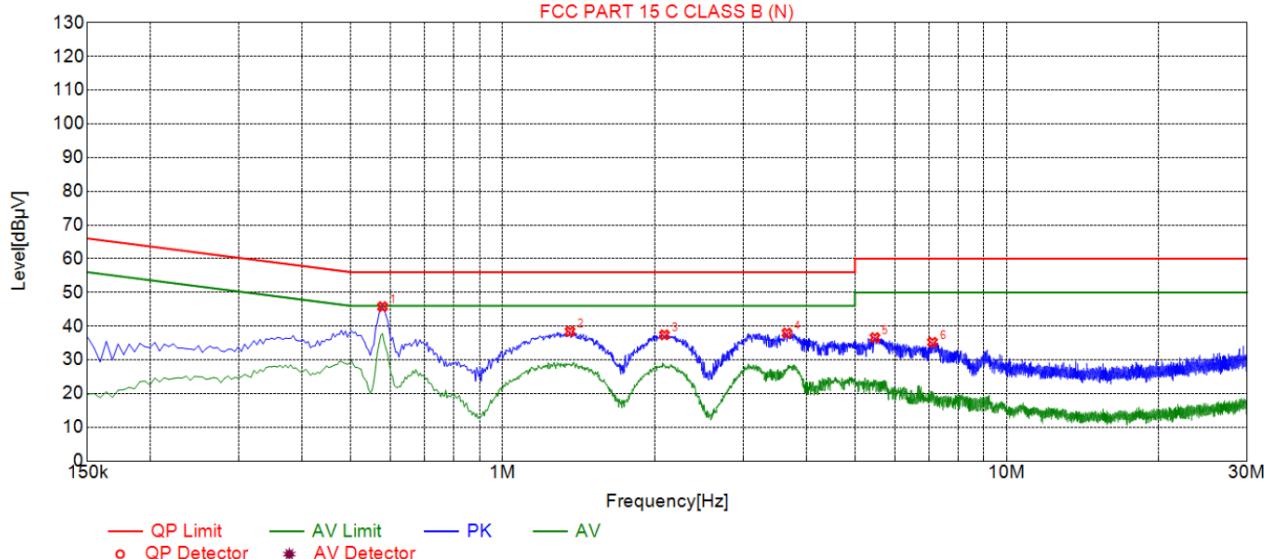
NO.	Freq. [MHz]	Level [dB μ V]	Factor [dB]	Limit [dB μ V]	Margin [dB]	Reading [dB μ V]	Detector	Type
1	0.5865	43.62	19.76	56.00	12.38	23.86	PK	L
2	1.3470	37.96	19.91	56.00	18.04	18.05	PK	L
3	2.0670	38.42	20.15	56.00	17.58	18.27	PK	L
4	3.4485	38.02	20.32	56.00	17.98	17.70	PK	L
5	5.5545	36.78	20.41	60.00	23.22	16.37	PK	L
6	6.7560	35.63	20.40	60.00	24.37	15.23	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dB μ V]	Factor [dB]	Limit [dB μ V]	Margin [dB]	Reading [dB μ V]	Detector	Type
1	0.5775	45.78	19.75	56.00	10.22	26.03	PK	N
2	1.3605	38.43	19.84	56.00	17.57	18.59	PK	N
3	2.0940	37.41	19.96	56.00	18.59	17.45	PK	N
4	3.6645	37.96	20.13	56.00	18.04	17.83	PK	N
5	5.4780	36.60	20.36	60.00	23.40	16.24	PK	N
6	7.1250	35.23	20.52	60.00	24.77	14.71	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



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3.2. Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

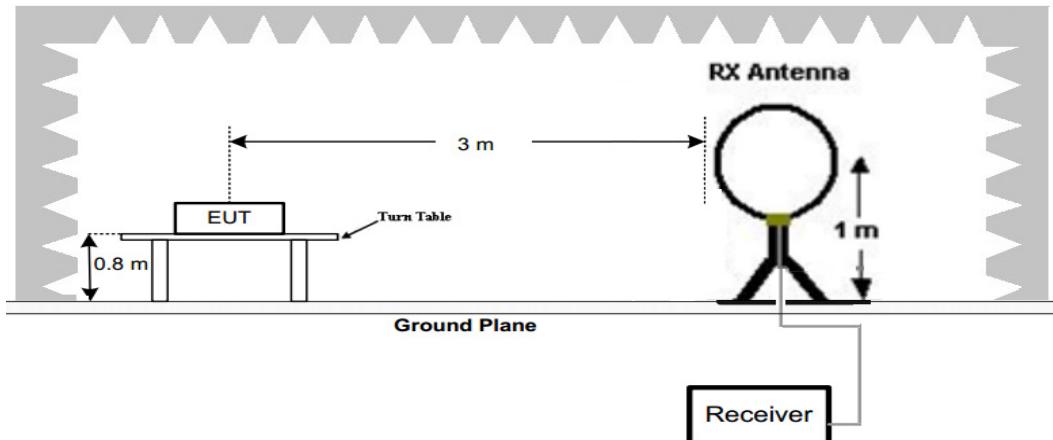
Except when the requirements applicable to a given device state otherwise, emissions from License-Exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Radiated Emission Limits

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Test Configuration

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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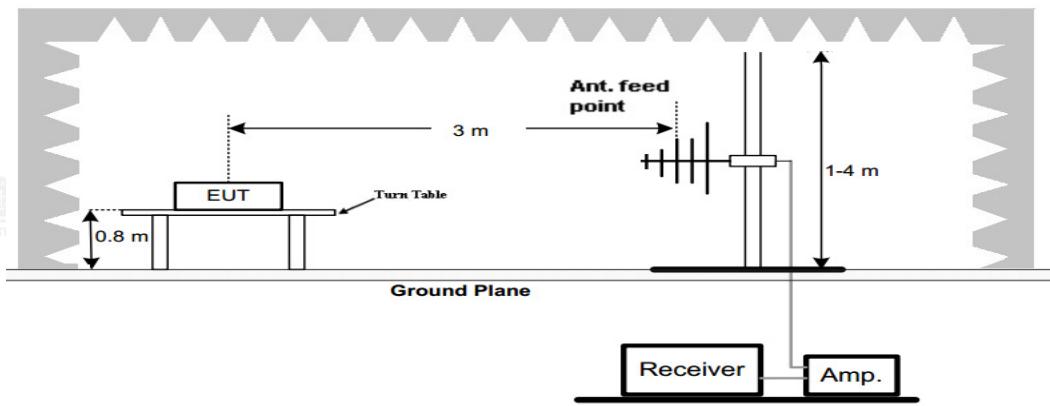
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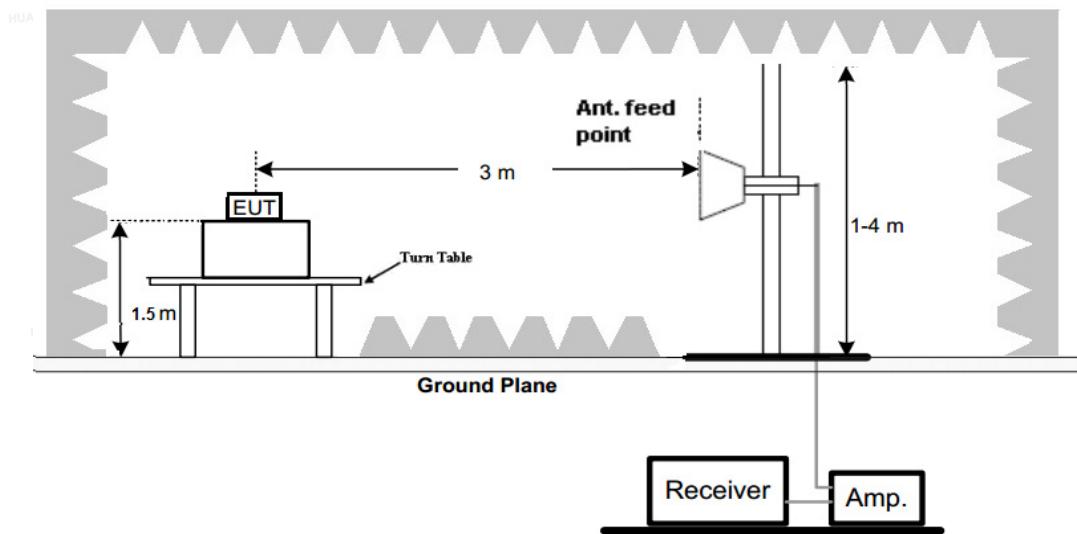
Test Procedure

1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0 degrees to 360 degrees to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz





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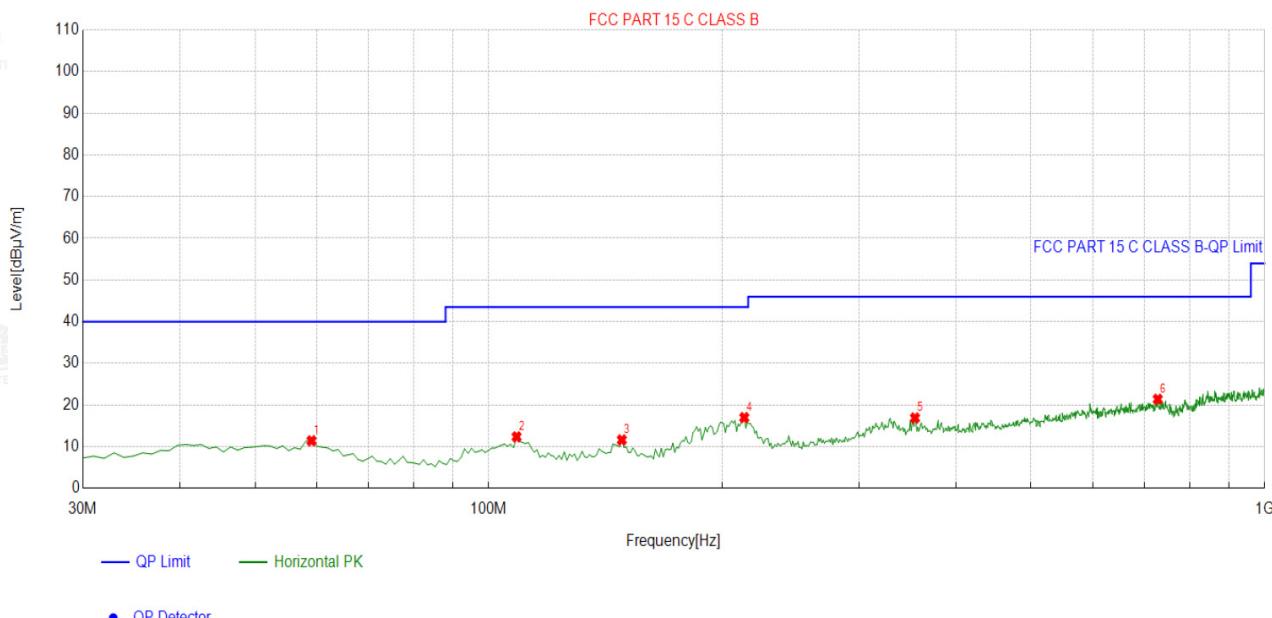
Test Results

Remark:

1. Radiated Emission measured at GFSK, $\pi/4$ DQPSK mode from 9 KHz to 10th harmonic of fundamental and recorded worst case at GFSK DH5 mode.
2. There is no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
3. For below 1GHz testing recorded worst at GFSK DH5 low channel.

Below 1GHz Test Results:

Antenna polarity: H



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1291	-13.54	24.96	11.42	40.00	28.58	100	21	Horizontal
2	108.6486	-14.02	26.38	12.36	43.50	31.14	100	344	Horizontal
3	148.4585	-18.14	29.76	11.62	43.50	31.88	100	118	Horizontal
4	213.5135	-14.79	31.77	16.98	43.50	26.52	100	121	Horizontal
5	354.3043	-10.22	27.10	16.88	46.00	29.12	100	282	Horizontal
6	728.1281	-3.69	25.07	21.38	46.00	24.62	100	183	Horizontal

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

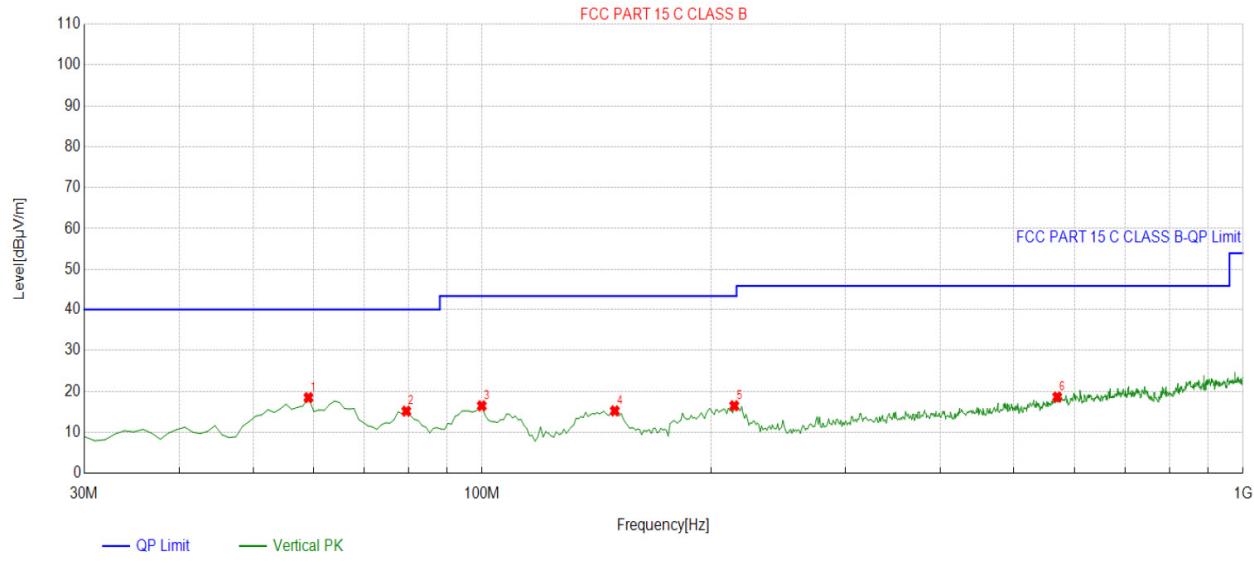
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Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1291	-13.54	32.03	18.49	40.00	21.51	100	44	Vertical
2	79.5195	-18.01	33.20	15.19	40.00	24.81	100	44	Vertical
3	99.9099	-14.70	31.19	16.49	43.50	27.01	100	77	Vertical
4	149.4294	-18.08	33.34	15.26	43.50	28.24	100	25	Vertical
5	214.4845	-14.76	31.26	16.50	43.50	27.00	100	0	Vertical
6	569.8599	-5.86	24.49	18.63	46.00	27.37	100	112	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 (dB μ V/m)	Limit@3m (dB μ V/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



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CH Middle (2441MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
4882.00	54.53	-3.54	50.99	74.00	23.01	peak
4882.00	44.49	-3.54	40.95	54.00	13.05	AVG
7323.00	51.85	-0.81	51.04	74.00	22.96	peak
7323.00	41.9	-0.81	41.09	54.00	12.91	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
4882.00	50.74	-3.54	47.20	74.00	26.80	peak
4882.00	43.16	-3.54	39.62	54.00	14.38	AVG
7323.00	55.25	-0.81	54.44	74.00	19.56	peak
7323.00	44.22	-0.81	42.41	54.00	19.58	AVG

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



HUAK TESTING

Radiated Band Edge Test:

Hopping

Horizontal (Worst case):

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310.00	55.63	-5.81	49.82	74	24.18	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	52.7	-5.84	46.86	74	27.14	peak
2390.00	/	-5.84	/	54	/	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310.00	54.48	-5.81	48.67	74	25.33	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	55.29	-5.84	49.45	74	24.55	peak
2390.00	/	-5.84	/	54	/	AVG

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



HUAK TESTING

Horizontal (Worst case):

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	53.77	-5.81	47.96	74	26.04	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	56.29	-6.06	50.23	74	23.77	peak
2500.00	/	-6.06	/	54	/	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	50.25	-5.81	44.44	74	29.56	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.52	-6.06	45.46	74	28.54	peak
2500.00	/	-6.06	/	54	/	AVG

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

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

**HUAK TESTING**

HUAK TESTING

NO Hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310.00	50.6	-5.81	44.79	74	29.21	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.3	-5.84	47.46	74	26.54	peak
2390.00	/	-5.84	/	54	/	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2310.00	54.78	-5.81	48.97	74	25.03	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	52.26	-5.84	46.42	74	27.58	peak
2390.00	/	-5.84	/	54	/	AVG

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