

FCC RADIO TEST REPORT

Applicant..... : Elettromedia s.r.l.

Address..... : 62018 Potenza Picena Italy

Manufacturer..... : Elettromedia s.r.l.

Address..... : Strada Regina Km 3.500 - Marignano 62018 Potenza Picena (MC) Italy

Factory..... : Eurosystem s.r.l.

Address..... : Via del Volontariato 5/7 60022 Castelfidardo (AN) - ITALY

Product Name..... : Bluetooth Hi-Res Receiver

Brand Name..... : Audison

Model No. : B-CON

FCC ID..... : 2ASUD-BCON

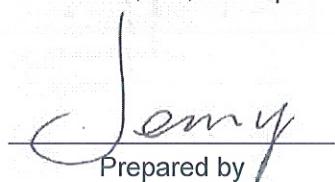
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.247)

Receipt Date of Samples..... : September 11, 2021

Date of Tested..... : September 12, 2021 to November 25, 2021

Date of Report..... : December 14, 2021

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.



Prepared by

Jenny Liu / Project Engineer



Lori Fan / Authorized Signatory

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Revision History

1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.247(a)(1)	Channel Separation test	PASS	---
§15.247(a)(1)	20dB Bandwidth	PASS	---
§15.247(a)(1)(iii)	Hopping Channel Number	PASS	---
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	PASS	---
§15.247(b)	Max Peak output Power test	PASS	---
§15.247(d)	Band edge test	PASS	---
§15.207 (a)	AC Power Conducted Emission	PASS	---
§15.247(d),§15.209, §15.205	Radiated Emission	PASS	---
§15.203	Antenna Requirement	PASS	---
§15.247(d)	Conducted Spurious Emission	PASS	---

2. General Description of EUT

Product Information	
Product Name:	Bluetooth Hi-Res Receiver
Main Model Name:	B-CON
Additional Model Name:	N/A
Model Difference:	N/A
S/N:	2109-5118
Brand Name	Audison
Hardware Version:	R01
Software Version:	R1.0
Rating:	DC 5V from USB Host Unit or DC12V from Battery
Classification:	Class B
Typical Arrangement:	Tabletop
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification

Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Number of Channel:	79 (refer to following channel list for details)
Channel Space:	1MHz
Antenna Type:	PCB antenna
Antenna Gain:	3.5 dBi (Declared by the manufacturer)
Note: This report only replies to BDR +EDR feature of the EUT.	

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	21	2422	41	2442	61	2462
2	2403	22	2423	42	2443	62	2463
3	2404	23	2424	43	2444	63	2464
4	2405	24	2425	44	2445	64	2465
5	2406	25	2426	45	2446	65	2466
6	2407	26	2427	46	2447	66	2467
7	2408	27	2428	47	2448	67	2468
8	2409	28	2429	48	2449	68	2469
9	2410	29	2430	49	2450	69	2470
10	2411	30	2431	50	2451	70	2471
11	2412	31	2432	51	2452	71	2472
12	2413	32	2433	52	2453	72	2473
13	2414	33	2434	53	2454	73	2474
14	2415	34	2435	54	2455	74	2475
15	2416	35	2436	55	2456	75	2476
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461	---	---

3. Test Channels and Modes Detail

No.	Mode	Channel	Frequency (MHz)	Modulation
1	TX	Hopping	2402-2480	GFSK / $\pi/4$ -DQPSK / 8DPSK
2	TX	Low	2402	GFSK / $\pi/4$ -DQPSK / 8DPSK
3	TX	Mid	2441	GFSK / $\pi/4$ -DQPSK / 8DPSK
4	TX	High	2480	GFSK / $\pi/4$ -DQPSK / 8DPSK
5.	BT Link	---	---	---

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT

TX Mode



BT Link



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

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.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	Laptop	Lenovo	R720-151KBN	PF0Z35F H	Power cord: 1.15m, unshielded	Provide by the Lab
2.	Power supply of the Laptop	Delta	ADL135NDC3A	N/A	---	Provide by the Lab
3.	Test fixture	---	---	---	----	Provide by the Lab
4.	Adapter	---	FJ-SW12605020 00DU	---	USB Cable: 1.0m, unshielded	Input: AC 100-240V 50/60Hz 0.4A Output: DC 5V 2000mA

No.	Test Software	Modulation	Power Setting
1.	ISRT Ver:2.1.32.6307	GFSK	Default
2.		$\pi/4$ -DQPSK	Default
3.		8DPSK	Default

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	<p>The Laboratory has been assessed and proved to be in compliance with CNAS/CL01</p> <p>Listed by CNAS, August 13, 2018</p> <p>The Certificate Registration Number is L5795.</p> <p>The Certificate is valid until August 13, 2024</p> <p>The Laboratory has been assessed and proved to be in compliance with ISO17025</p> <p>Listed by A2LA, November 01, 2017</p> <p>The Certificate Registration Number is 4429.01</p> <p>The Certificate is valid until December 31, 2021</p> <p>Listed by FCC, November 06, 2017</p> <p>Test Firm Registration Number: 907417</p> <p>Listed by Industry Canada, June 08, 2017</p> <p>The Certificate Registration Number. Is 46405-9743A</p>
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng District, Dongguan City, Guangdong Province, China

8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.247

ANSI C63.10-2020

References Test Guidance:

DTS KDB 558074 D01 15.247 Meas Guidance v05r02

Remark:

The EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	Channel Separation test	1	DC 12V	Sean Yuan	See note ¹
2.	20dB Bandwidth	2-4	DC 12V	Sean Yuan	See note ¹
3.	Hopping Channel Number	1	DC 12V	Sean Yuan	See note ¹
4.	Time of Occupancy (Dwell Time)	1	DC 12V	Sean Yuan	See note ¹
5.	Max Peak output Power test	2-4	DC 12V	Sean Yuan	See note ¹
6.	Band edge test	1-4	DC 12V	Sean Yuan	See note ¹
7.	AC Power Conducted Emission	5	AC 120V 60Hz	Sean Yuan	See note ¹
8.	Radiated Emission	1-4	AC120V 60Hz, DC 12V	Sean Yuan	See note ¹
9.	Antenna Requirement	---	DC 12V	Sean Yuan	See note ¹
10.	Conducted Spurious Emission	1-4	DC 12V	Sean Yuan	See note ¹

Note:

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~70%, 86~106kPa
2. As the EUT can be operated multiple positions, all X,Y,Z axis were considered during the test and only the worst case X was recorded.
3. AC 120V 60Hz is come from input voltage of the ancillary equipment adapter.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	---
2.	Radiated Emission	9kHz ~ 30MHz	±2.60 dB	
		30MHz ~ 1GHz	±4.68 dB	---
		1GHz ~ 18GHz	±5.14 dB	---
		18GHz ~ 40GHz	±5.14 dB	
3.	RF Conducted	10Hz ~ 40GHz	±1.06 dB	---

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.1500	27.50	10.60	38.10	66.00	-27.90	QP

Where,

Freq. = Emission frequency in MHz
 Reading Level = Spectrum Analyzer/Receiver Reading
 Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation
 Measurement = Reading + Corrector Factor
 Limit = Limit stated in standard
 Margin = Measurement - Limit
 Detector = Reading for Quasi-Peak / Average / Peak

Radiated Spurious Emissions and Restricted Bands						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector
142.5200	39.06	-10.96	28.10	43.50	-15.40	QP

Where,

Freq. = Emission frequency in MHz
 Reading Level = Spectrum Analyzer/Receiver Reading
 Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier
 Measurement = Reading + Corrector Factor
 Limit = Limit stated in standard
 Over = Margin, which calculated by Measurement - Limit
 Detector = Reading for Quasi-Peak / Average / Peak

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.

13. Test Items and Results

13.1 Conducted Emissions Measurement

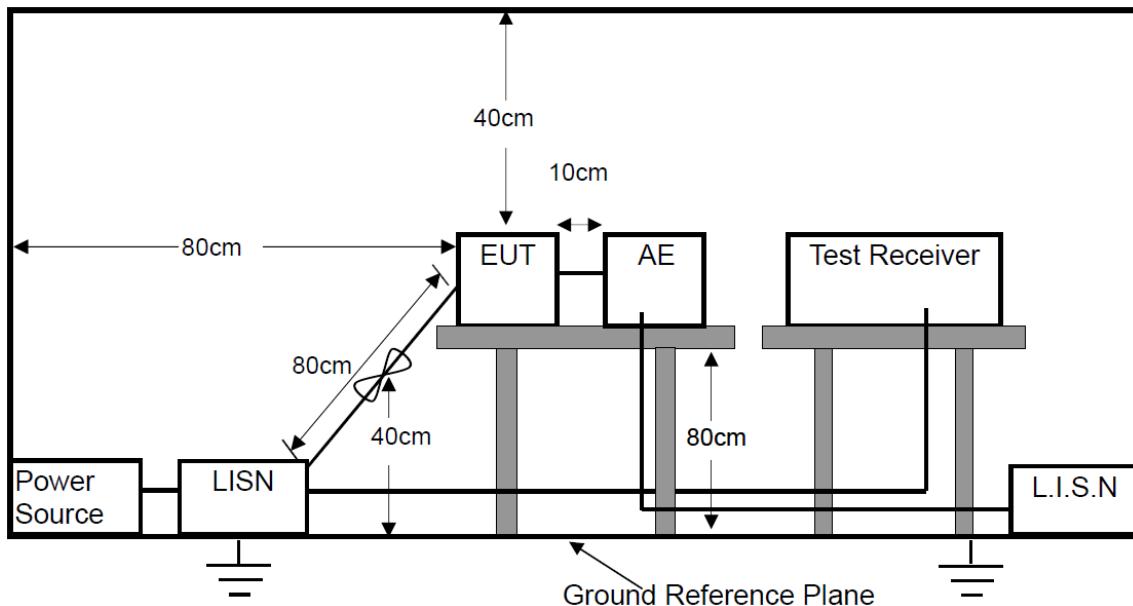
LIMITS

According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

Note: 1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

PASS

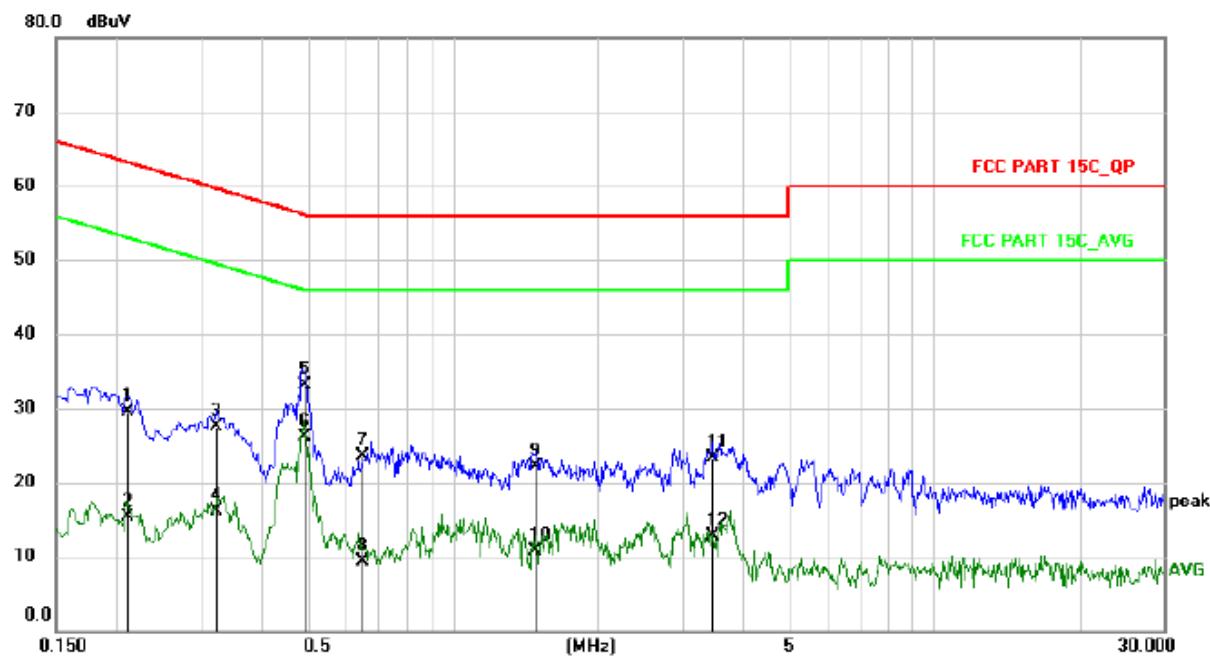
Please refer to the following pages.

M/N: B-CON	Testing Voltage: AC 120V/60Hz
Phase: L1	Detector: QP & AVG
Test Mode: 5	

Conducted Emission Measurement

Date: 2021/9/17

Time: 16:25:43



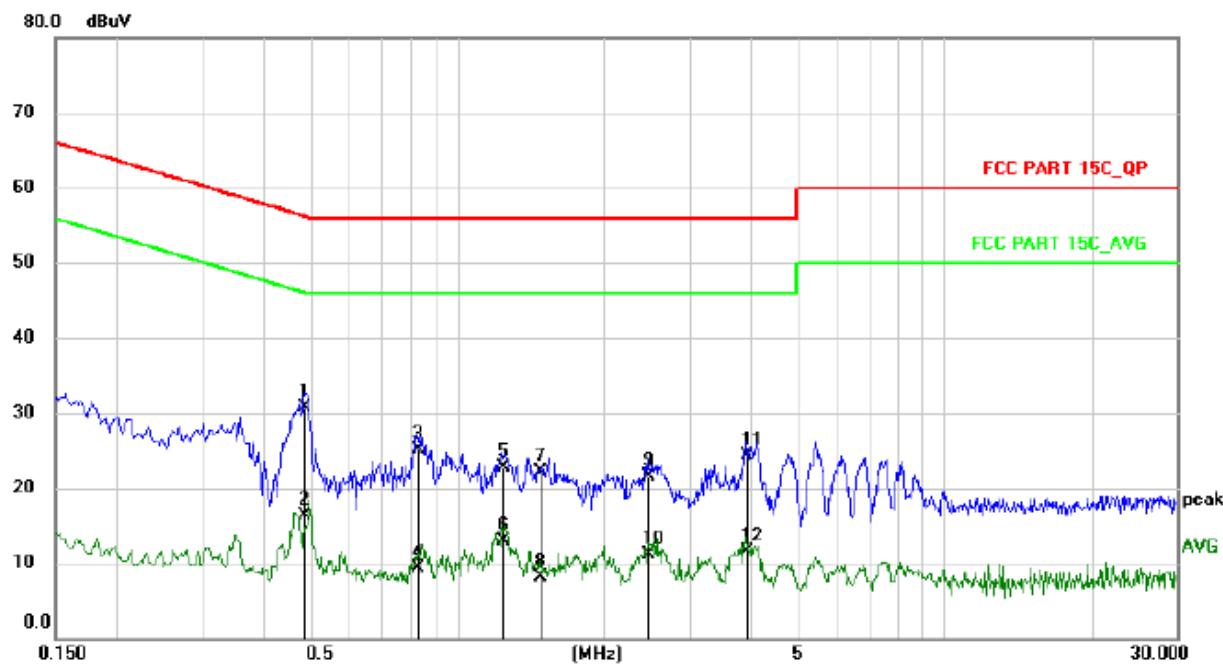
No. Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		Level	Factor	ment				
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.2100	18.90	10.60	29.50	63.21	-33.71	QP	
2	0.2100	4.70	10.60	15.30	53.21	-37.91	AVG	
3	0.3234	17.00	10.60	27.60	59.62	-32.02	QP	
4	0.3234	5.50	10.60	16.10	49.62	-33.52	AVG	
5	0.4900	22.57	10.63	33.20	56.17	-22.97	QP	
6 *	0.4900	15.47	10.63	26.10	46.17	-20.07	AVG	
7	0.6460	12.85	10.65	23.50	56.00	-32.50	QP	
8	0.6460	-1.25	10.65	9.40	46.00	-36.60	AVG	
9	1.4858	11.50	10.70	22.20	56.00	-33.80	QP	
10	1.4858	0.00	10.70	10.70	46.00	-35.30	AVG	
11	3.4660	12.69	10.71	23.40	56.00	-32.60	QP	
12	3.4660	1.99	10.71	12.70	46.00	-33.30	AVG	

M/N: B-CON	Testing Voltage: AC 120V/60Hz
Phase: N	Detector: QP & AVG
Test Mode: 5	

Conducted Emission Measurement

Date: 2021/9/17

Time: 16:31:08



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.4863	20.07	10.63	30.70	56.23	-25.53	QP	
2	0.4863	5.67	10.63	16.30	46.23	-29.93	AVG	
3	0.8300	14.42	10.68	25.10	56.00	-30.90	QP	
4	0.8300	-1.38	10.68	9.30	46.00	-36.70	AVG	
5	1.2379	12.00	10.70	22.70	56.00	-33.30	QP	
6	1.2379	2.20	10.70	12.90	46.00	-33.10	AVG	
7	1.4778	11.40	10.70	22.10	56.00	-33.90	QP	
8	1.4778	-2.50	10.70	8.20	46.00	-37.80	AVG	
9	2.4660	10.90	10.70	21.60	56.00	-34.40	QP	
10	2.4660	0.50	10.70	11.20	46.00	-34.80	AVG	
11	3.9100	13.59	10.71	24.30	56.00	-31.70	QP	
12	3.9100	0.79	10.71	11.50	46.00	-34.50	AVG	

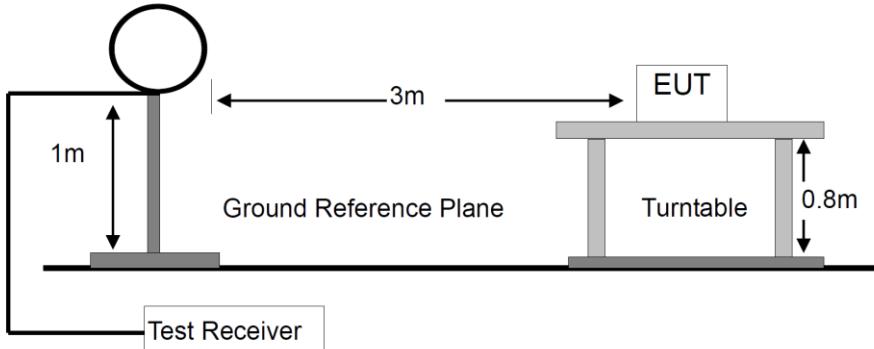
13.2 Radiated Spurious Emissions and Restricted Bands Measurement

LIMITS

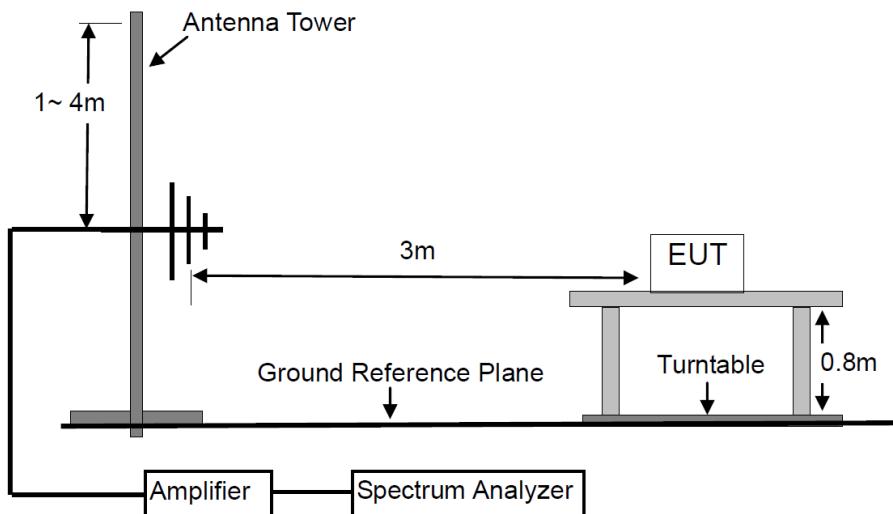
Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		µV/m
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500
Remark: (1) Emission level (dB)µV = 20 log Emission level µV/m (2) The smaller limit shall apply at the cross point between two frequency bands. (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation. (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.		

BLOCK DIAGRAM OF TEST SETUP

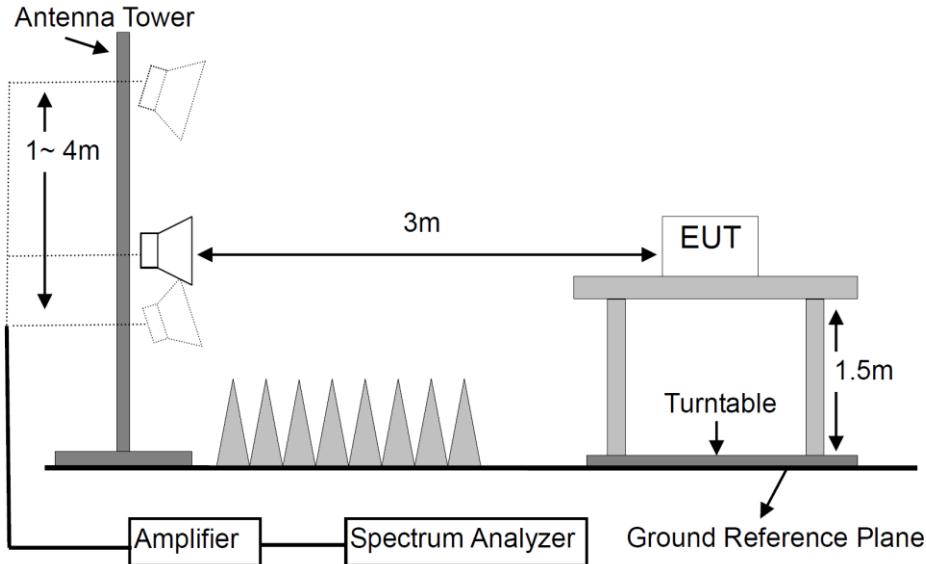
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- For the radiated emission test above 1GHz:

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. 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.

- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna 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.
- 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.

- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.
- g. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and packet type.

The worst case was found when the EUT was positioned on X axis for radiated emission.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
	Average	1 MHz	10 Hz

TEST RESULTS

PASS

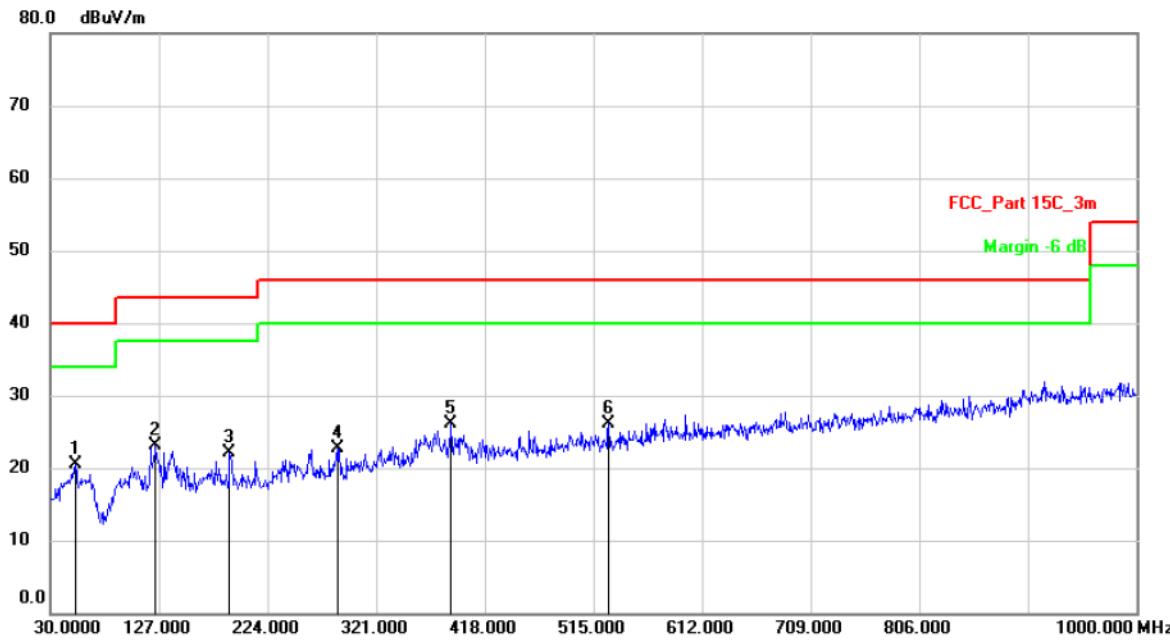
Please refer to the following pages of the worst case.

M/N: B-CON	Testing Voltage: AC120V 60Hz
Polarization: Horizontal	Detector: QP
Test Mode: 5	Distance: 3m

Radiated Emission Measurement

Date: 2021/9/22

Time: 22:16:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	52.3100	27.58	-7.17	20.41	40.00	-19.59	QP	
2		124.0900	32.93	-9.88	23.05	43.50	-20.45	QP	
3		190.0500	30.42	-8.27	22.15	43.50	-21.35	QP	
4		286.0799	28.48	-5.79	22.69	46.00	-23.31	QP	
5		387.9300	29.62	-3.59	26.03	46.00	-19.97	QP	
6		528.5800	27.45	-1.28	26.17	46.00	-19.83	QP	

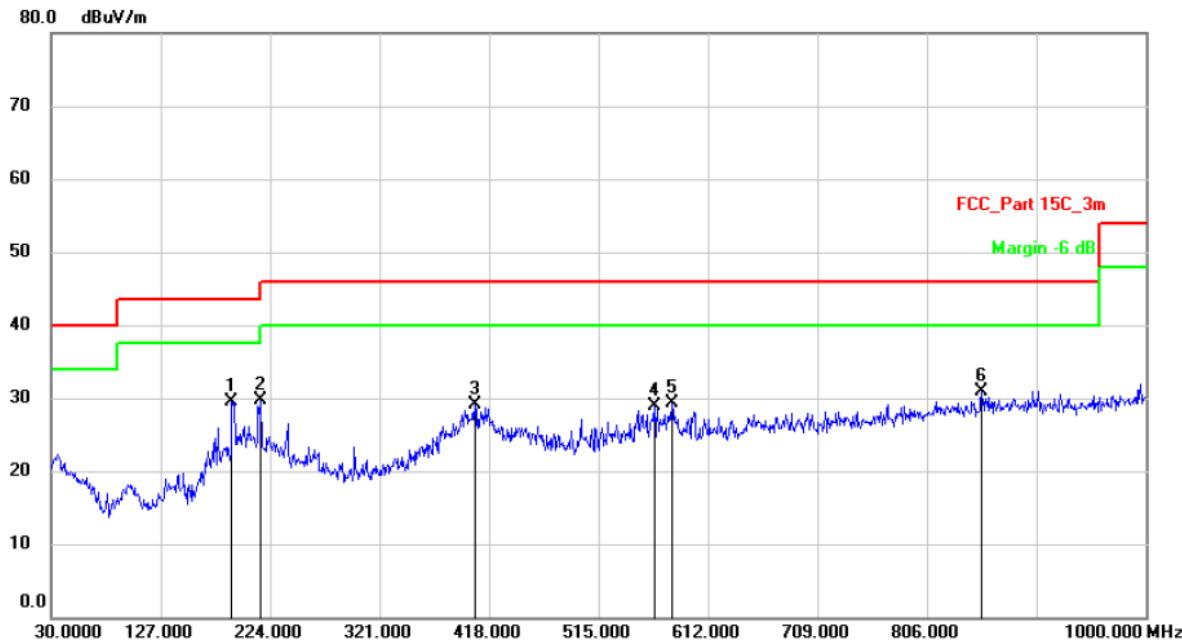
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: B-CON	Testing Voltage: AC120V 60Hz
Polarization: Vertical	Detector: QP
Test Mode: 5	Distance: 3m

Radiated Emission Measurement

Date: 2021/9/22

Time: 22:22:51



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
								MHz	dBuV
1		190.0500	38.66	-9.09	29.57	43.50	-13.93	QP	
2	*	215.2700	38.25	-8.51	29.74	43.50	-13.76	QP	
3		405.3900	33.45	-4.25	29.20	46.00	-16.80	QP	
4		564.4699	30.28	-1.33	28.95	46.00	-17.05	QP	
5		579.9900	30.14	-0.77	29.37	46.00	-16.63	QP	
6		854.5000	26.08	4.83	30.91	46.00	-15.09	QP	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

Modulation: 8DPSK (the worst case)			Test Result: PASS				Test frequency range: 1-25GHz				
Freq. (MHz)	Ant. Pol. (H/V)	Reading Level(dBuV)		Factor (dB/m)	Emission Level (dBuV/m)		Limit 3m (dBuV/m)		Margin (dB)		
		PK	AV		PK	AV	PK	AV	PK	AV	
Operation Mode: TX Mode (Low)											
4804	V	50.73	35.82	6.30	57.03	42.12	74.00	54.00	-16.97	-11.88	
7206	V	48.47	35.83	10.44	18.91	46.27	74.00	54.00	-15.09	-7.73	

4804	H	50.82	36.35	6.30	57.12	42.65	74.00	54.00	-16.88	-11.35	
7206	H	48.80	35.93	10.44	59.24	46.37	74.00	54.00	-14.76	-7.63	

Operation Mode: TX Mode (Mid)											
4882	V	50.15	35.72	6.60	56.75	42.32	74.00	54.00	-17.25	-11.68	
7323	V	47.69	35.52	10.55	58.24	46.07	74.00	54.00	-15.76	-7.93	

4882	H	50.38	35.52	6.60	56.98	42.12	74.00	54.00	-17.02	-11.88	
7323	H	48.40	36.16	10.55	58.95	46.71	74.00	54.00	-15.05	-7.29	

Operation Mode: TX Mode (High)											
4960	V	51.25	35.36	6.89	58.14	42.25	74.00	54.00	-15.86	-11.75	
7440	V	48.17	35.70	10.60	58.77	56.30	74.00	54.00	-15.23	-7.70	

4960	H	50.73	35.76	6.89	57.62	42.65	74.00	54.00	-16.38	-11.35	
7440	H	48.55	36.11	10.60	59.15	46.71	74.00	54.00	-14.85	-7.29	

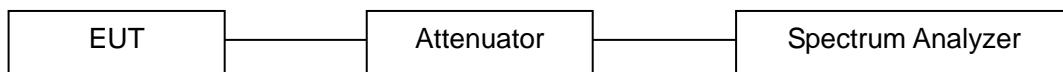
Spurious Emission in restricted band:											
2390.000	V	48.83	36.80	0.09	48.92	36.89	74.00	54.00	-25.08	-17.11	
2390.000	H	49.42	36.91	0.09	49.51	37.00	74.00	54.00	-24.49	-17.00	
2483.500	V	50.89	37.71	0.34	51.02	37.84	74.00	54.00	-22.98	-16.16	
2483.500	H	51.11	37.89	0.34	51.24	38.02	74.00	54.00	-22.76	-15.98	
Remark: Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits.											

13.3 Channel Separation test

LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- b. Set to the maximum power setting and enable the EUT transmit continuously.
- c. Enable the EUT hopping function.
- d. Set spectrum analyzer and perform testing according to ANSI C63.10 clause 7.8.2.

TEST RESULTS

PASS

Please refer to the following tables.

Modulation	Channel	Frequency (MHz)	Hopping Separation Measurement (MHz)	Hopping Separation Limit (MHz)	Test Result
GFSK	Low	2402	1.002	>0.4658	Pass
	Mid	2441	1.002	>0.4659	Pass
	High	2480	1.002	>0.4617	Pass
$\pi/4$ -DQPSK	Low	2402	1.002	>0.7713	Pass
	Mid	2441	1.002	>0.7673	Pass
	High	2480	1.002	>0.7773	Pass
8DPSK	Low	2402	1.002	>0.7693	Pass
	Mid	2441	1.002	>0.7640	Pass
	High	2480	1.002	>0.7687	Pass





13.4 20dB Bandwidth

LIMIT

N/A

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- a. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- b. Set to the maximum power setting and enable the EUT transmit continuously.
- c. Set spectrum analyzer and perform testing according to ANSI C63.10 clause 6.9.2.

TEST RESULTS

PASS

Please refer to the following tables.