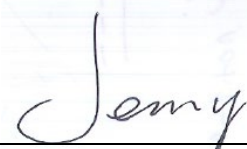


FCC RADIO TEST REPORT

Applicant..... : Elettromedia s.p.a.
Address..... : 62018 Potenza Picena (MC) Italy
Manufacturer..... : Elettromedia s.p.a.
Address..... : 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, B-CON(II) (For model differences refer to section 2)
FCC ID..... : 2ASUD-BCON
Measurement Standard..... : 47 CFR FCC Part 15, Subpart C (Section 15.247)
Receipt Date of Samples..... : September 11, 2021; May 26, 2025
Date of Tested..... : September 12, 2021 to December 02, 2021
May 26, 2025 to June 07, 2025
Date of Report..... : July 08, 2025

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



Approved by

Iori Fan / Authorized Signatory

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Revision History

Report Number	Description	Issued Date
NTC2109280FV00	Initial Issue	2021-12-14
NTC2109280FV01	Changed the applicant and manufacturer	2022-09-29
NTC2109280FV02	Added one model name	2025-07-08

1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Conducted Emission	PASS	---
§15.247(b)(3)	Maximum Conducted Output Power	PASS	---
§15.247(a)(2)	6dB Bandwidth	PASS	---
§15.247(e)	Power Spectral Density	PASS	---
§15.247(d)	Band Edge and Conducted Spurious Emissions	PASS	---
§15.247(d), §15.209, §15.205	Radiated Spurious Emissions and Restricted Bands	PASS	---
§15.203	Antenna Requirement	PASS	---

2. General Description of EUT

Product Information	
Product Name:	Bluetooth Hi-Res Receiver
Main Model Name:	B-CON
Additional Model Name:	B-CON(II)
Model Difference:	Both of models have the same construction, and critical components. The difference is the model name, partial PCB layout and USB interface due to marketing purpose.
S/N:	Not stated
Brand Name	AUDISON
Hardware Version:	R01 for B-CON, R01A for B-CON(II)
Software version of the RF:	R1.0
Software version of the product:	2.1.9
Rating:	DC 6~24V come from SDC port (typical DC 12 or DC 24V) DC 5V come from USB
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	Refer to the user manual
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional information	
Note:	According to the model differences, all the test were performed on model B-CON, and for B-CON(II), we have retested Radiated Emission (Below 1GHz), details refer to report.
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.

Technical Specification (BLE)	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40 (refer to following channel list for details)
Channel Space:	2MHz
Antenna Type:	PCB antenna
Antenna Gain:	3.5 dBi
RF PHY Support:	1Mbps
Note: This report only replies to BLE feature of the EUT.	

Revision History	
1. This report was an additional report based on original report NTC2109280FV01.	
2. Compared with the original report, this report has added one model name. Details as below:	
Before change	After change
Model name: B-CON	Model name: B-CON, B-CON(II)
3. The new model name B-CON(II) is the same as B-CON except the model name, partial PCB layout and USB interface.	
4. According to these changes, we have retested Radiated Emission (Below 1GHz) for the new model B-CON(II), and the test data will be added in the report. The original data and photos of model B-CON can be referenced. Details refer to the report.	

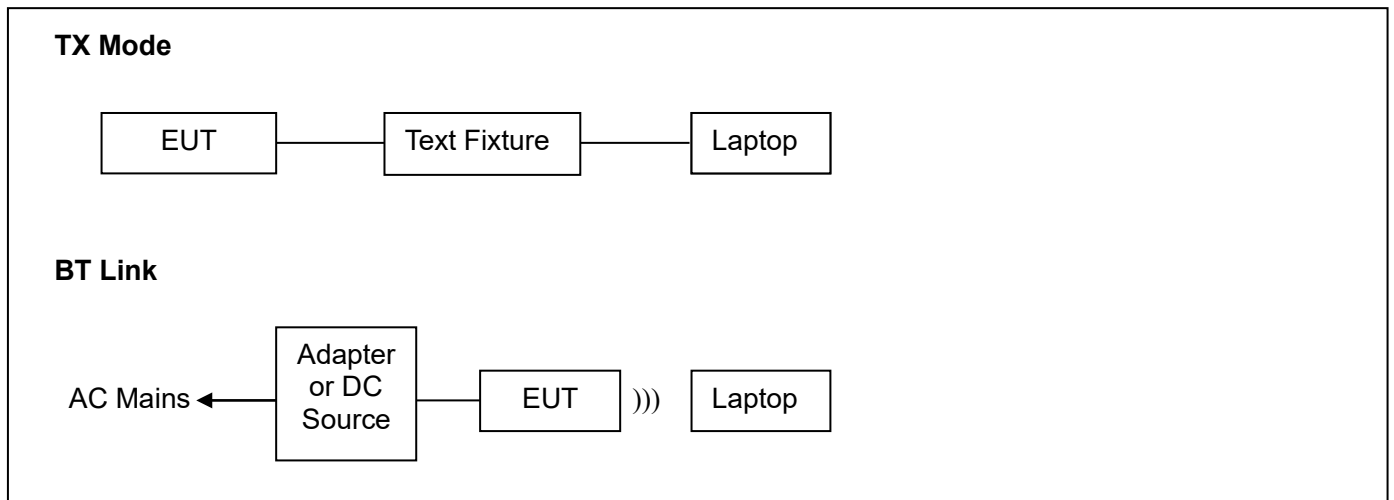
Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	-	-
13	2428	27	2456	-	-

3. Test Channels and Modes Detail

Mode		Channel		Frequency (MHz)	Modulation	RF PHY (Mbps)
1	TX	Low	0	2402	GFSK	1
2		Mid	19	2440	GFSK	1
3		High	39	2480	GFSK	1
4	BT Link	---	---	---	---	---

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

4. Configuration of EUT



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	PF0Z35FH	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-SW1260502 000DU	---	USB Cable: 1.0m, unshielded	Input: AC 100-240V 50/60Hz 0.4A Output: DC 5V 2000mA
5.	DC Source	Maynuo	MY8811	---	---	Provide by the Lab

No.	Test Software	Modulation	Power Setting
1.	ISRT Ver:2.1.32.6307	GFSK	Default

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and Authorizations	:	The Laboratory has been assessed and proved to be in compliance with CNAS/CL01 Listed by CNAS, August 13, 2018 The Certificate Registration Number is L5795. The Certificate is valid until August 13, 2030 The Laboratory has been assessed and proved to be in compliance with ISO17025 Listed by A2LA, November 01, 2017 The Certificate Registration Number is 4429.01 The Certificate is valid until December 31, 2025 Listed by FCC, November 06, 2017 Test Firm Registration Number: 907417 Listed by Industry Canada, June 08, 2017 The Certificate Registration Number. Is 46405-9743A
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 C63.10-2013

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.	AC Power Conducted Emission	4	AC120V 60Hz	Sean Yuan	See note 1
2.	Max. Conducted Output Power	1-3	DC 12V	Sean Yuan	See note 1
3.	6dB Bandwidth	1-3	DC 12V	Sean Yuan	See note 1
4.	Power Spectral Density	1-3	DC 12V	Sean Yuan	See note 1
5.	Band Edge and Conducted Spurious Emissions	1-3	DC 12V	Sean Yuan	See note 1
6.	Radiated Spurious Emissions and Restricted Bands	1-4	AC120V 60Hz DC 12V	Sean Yuan	See note 1
7..	Antenna Requirement	---	---	---	---

Note:

- The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~70%, 86~106kPa
- 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.
- AC 120V 60Hz come from adapter. DC 12V come from DC source.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	---
2.	Radiated Emission Test	9kHz ~ 30MHz	±5.60 dB	---
		30MHz ~ 1GHz	±5.60 dB	---
		1GHz ~ 18GHz	±5.22 dB	---
		18GHz ~ 40GHz	±5.22 dB	---
3.	RF Conducted Test	10Hz ~ 40GHz	±1.08 dB	---

Note:

- This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- The measurement uncertainty levels above are estimated and calculated according to CISPR 16-4-2.
- 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
4.1900	30.10	10.60	40.70	56.00	-15.30	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
233.0700	45.88	-18.38	27.50	46.00	-18.50	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

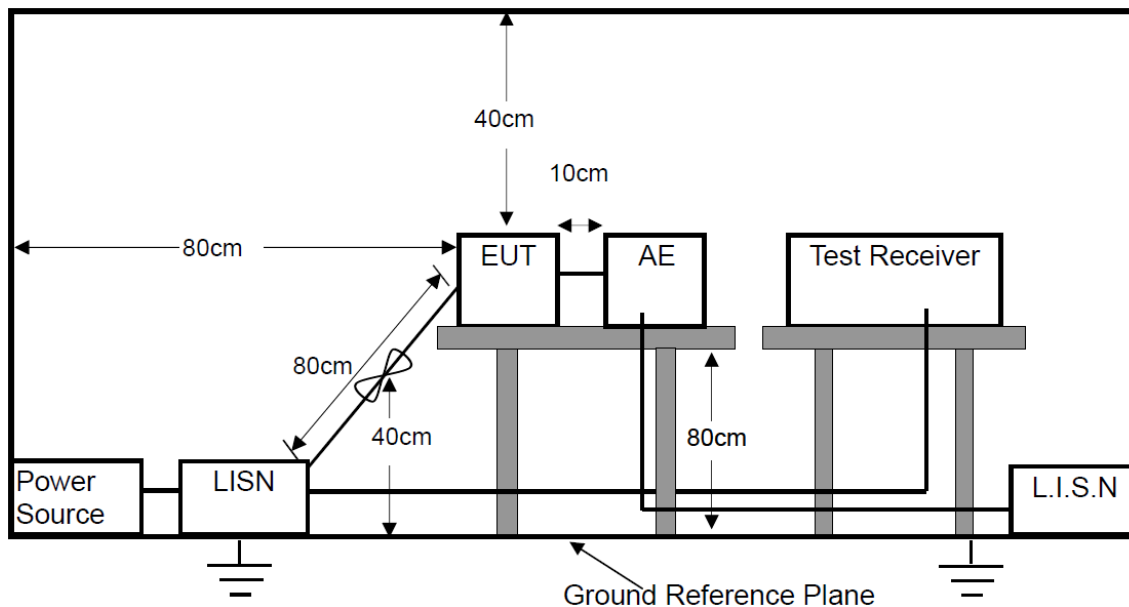
LIMIT

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

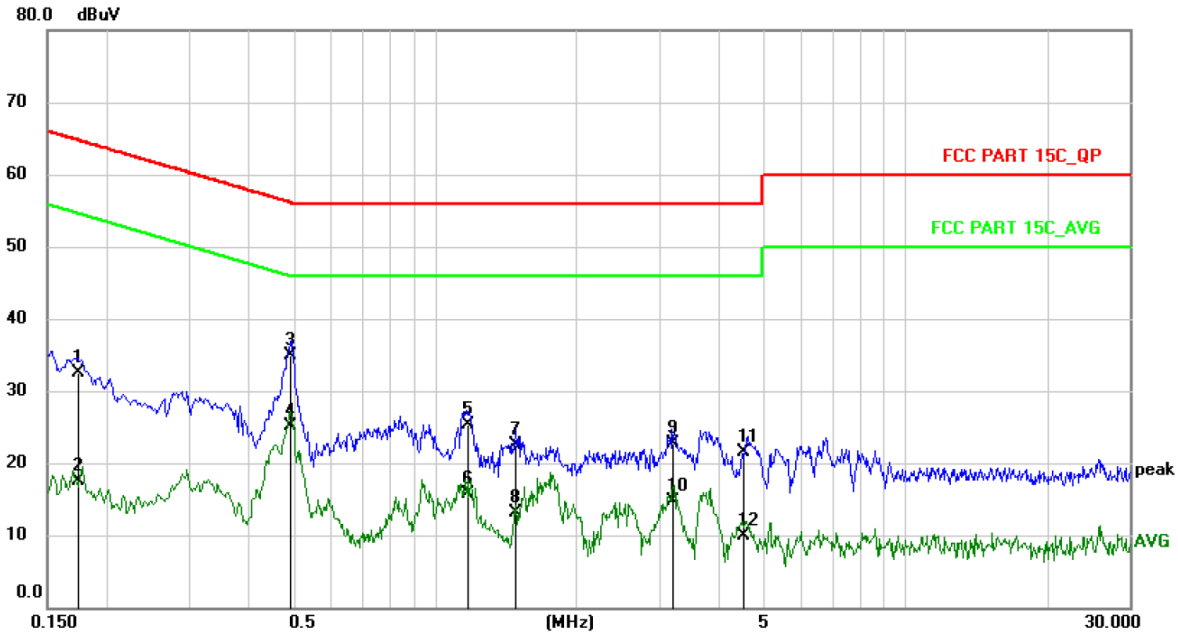
Please refer to the following pages.

M/N: B-CON	Testing Voltage: AC 120V/60Hz
Phase: L1	Detector: QP & AVG
Test Mode: 4	

Conducted Emission Measurement

Date: 2021/12/1

Time: 16:38:23



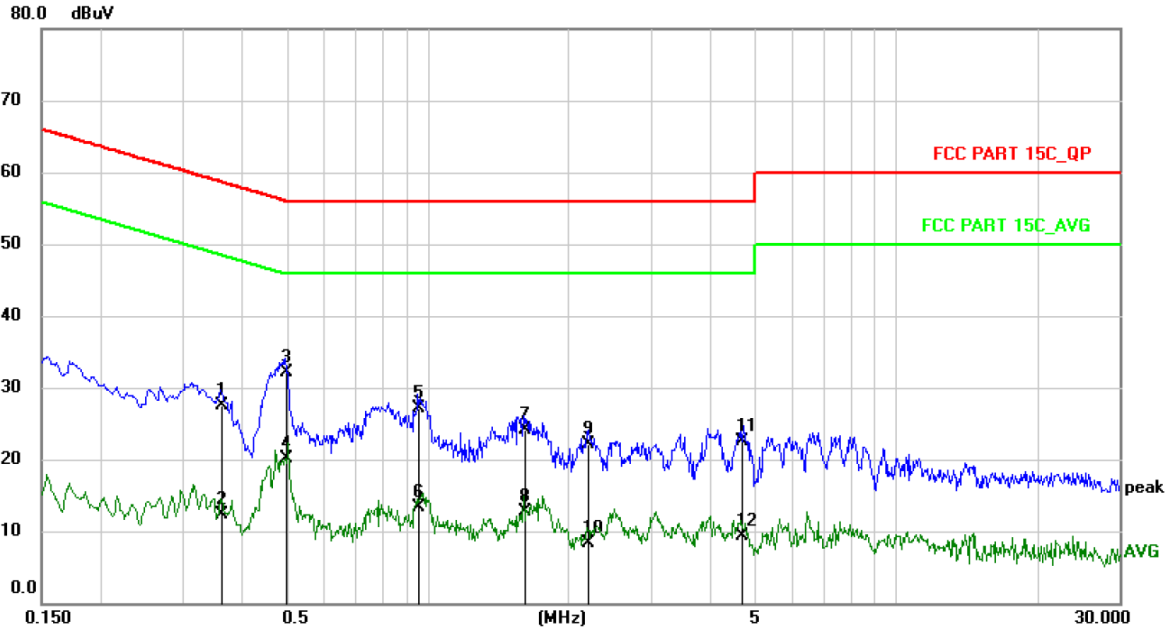
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1737	21.90	10.60	32.50	64.78	-32.28	QP	
2	0.1737	6.90	10.60	17.50	54.78	-37.28	AVG	
3	0.4939	24.27	10.63	34.90	56.10	-21.20	QP	
4 *	0.4939	14.47	10.63	25.10	46.10	-21.00	AVG	
5	1.1700	14.60	10.70	25.30	56.00	-30.70	QP	
6	1.1700	5.00	10.70	15.70	46.00	-30.30	AVG	
7	1.4858	11.90	10.70	22.60	56.00	-33.40	QP	
8	1.4858	2.40	10.70	13.10	46.00	-32.90	AVG	
9	3.2019	11.99	10.71	22.70	56.00	-33.30	QP	
10	3.2019	4.09	10.71	14.80	46.00	-31.20	AVG	
11	4.5217	10.89	10.71	21.60	56.00	-34.40	QP	
12	4.5217	-0.81	10.71	9.90	46.00	-36.10	AVG	

M/N: B-CON	Testing Voltage: AC 120V/60Hz
Phase: N	Detector: QP & AVG
Test Mode: 4	

Conducted Emission Measurement

Date: 2021/12/1

Time: 16:44:51



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3618	16.99	10.61	27.60	58.69	-31.09	QP	
2	0.3618	1.79	10.61	12.40	48.69	-36.29	AVG	
3 *	0.4979	21.47	10.63	32.10	56.03	-23.93	QP	
4	0.4979	9.57	10.63	20.20	46.03	-25.83	AVG	
5	0.9536	16.41	10.69	27.10	56.00	-28.90	QP	
6	0.9536	2.61	10.69	13.30	46.00	-32.70	AVG	
7	1.6100	13.40	10.70	24.10	56.00	-31.90	QP	
8	1.6100	2.10	10.70	12.80	46.00	-33.20	AVG	
9	2.1900	11.40	10.70	22.10	56.00	-33.90	QP	
10	2.1900	-2.30	10.70	8.40	46.00	-37.60	AVG	
11	4.6736	11.89	10.71	22.60	56.00	-33.40	QP	
12	4.6736	-1.31	10.71	9.40	46.00	-36.60	AVG	

13.2 Maximum Conducted Output Power Measurement

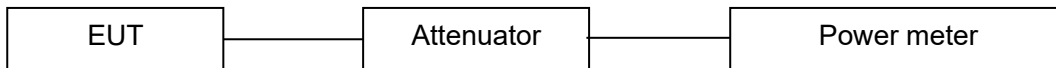
LIMIT

For system using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1 Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

ANSI C63.10 - 2013, Section 11.9.1.3

ANSI C63.10 - 2013, Section 11.9.2.3.2

TEST RESULTS

PASS

Please refer to the following table.

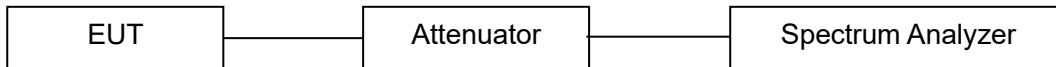
GFSK					
Channel	Frequency (MHz)	RF PHY (Mbps)	Peak Output Power (dBm)	Limit (dBm)	Result
0	2402	1	-2.28	≤30	PASS
19	2440	1	-1.28	≤30	PASS
39	2480	1	0.26	≤30	PASS

13.3 6dB Bandwidth Measurement

LIMIT

The minimum 6dB bandwidth shall be at least 500 kHz

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer was set as below according to FCC KDB558074 (v05r02):

- a. Set the RBW = 100KHz.
- b. Set the VBW $\geq 3 \times$ RBW
- c. Set the Detector = peak.
- d. Set the Sweep time = auto couple.
- e. Set the Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

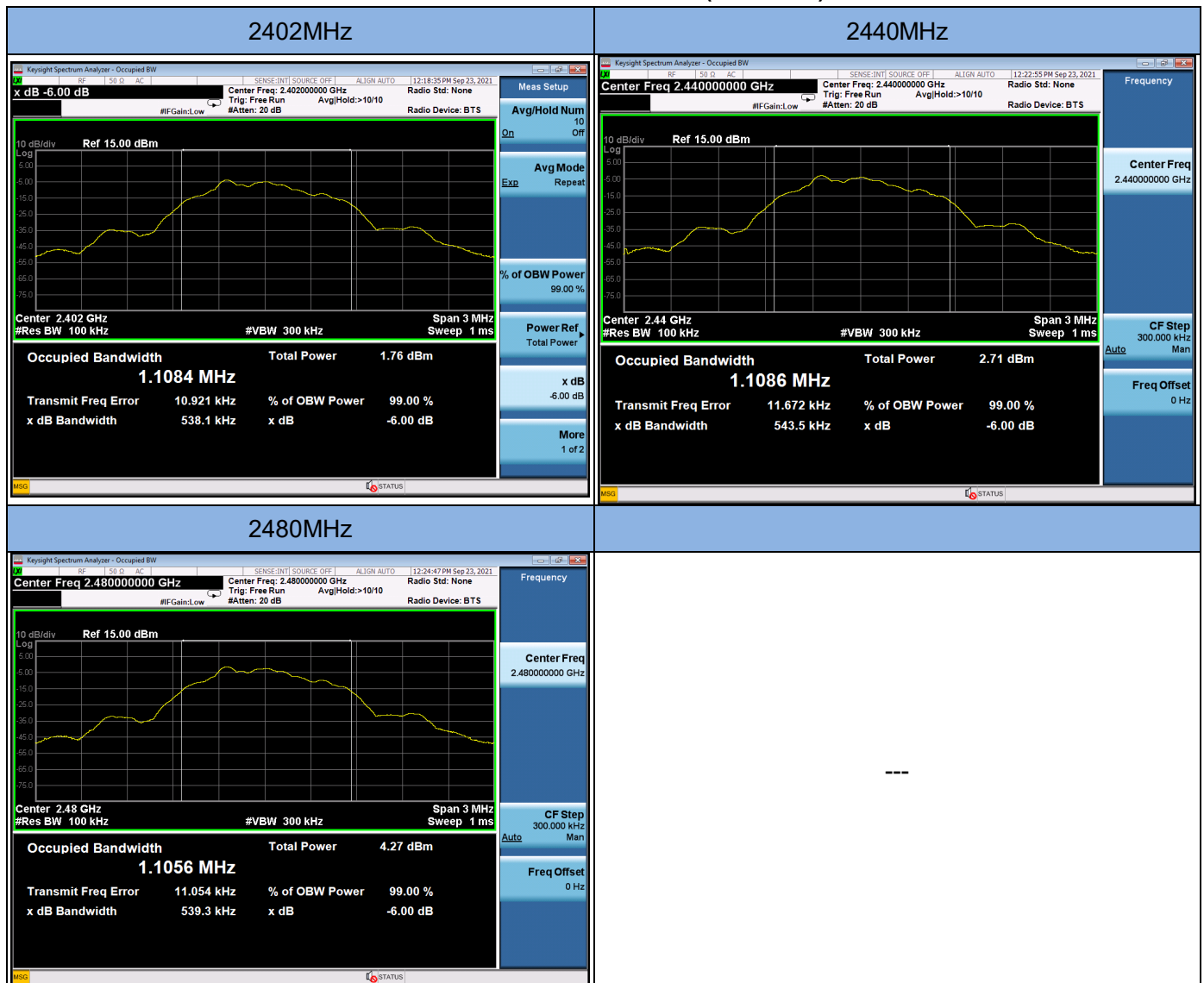
TEST RESULTS

PASS

Please refer to the following tables.

GFSK						
Channel	Frequency (MHz)	RF PHY (Mbps)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6dB Limit (MHz)	Result
0	2402	1	0.5831	1.1084	>0.5	PASS
19	2440	1	0.5435	1.1086	>0.5	PASS
39	2480	1	0.5393	1.1056	>0.5	PASS

Test Plots of 6dB Bandwidth (GFSK:1M)

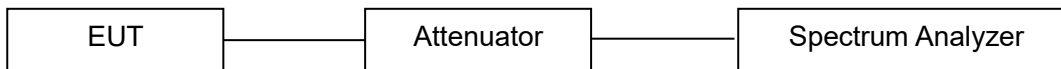


13.4 Power Spectral Density Measurement

LIMIT

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer was set as below according to FCC KDB558074 (v05r02):

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100\text{KHz}$
- Set the VBW $\geq 3 \times \text{RBW}$.
- Set the Detector = peak.
- Set the Sweep time = auto couple.
- Set the Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

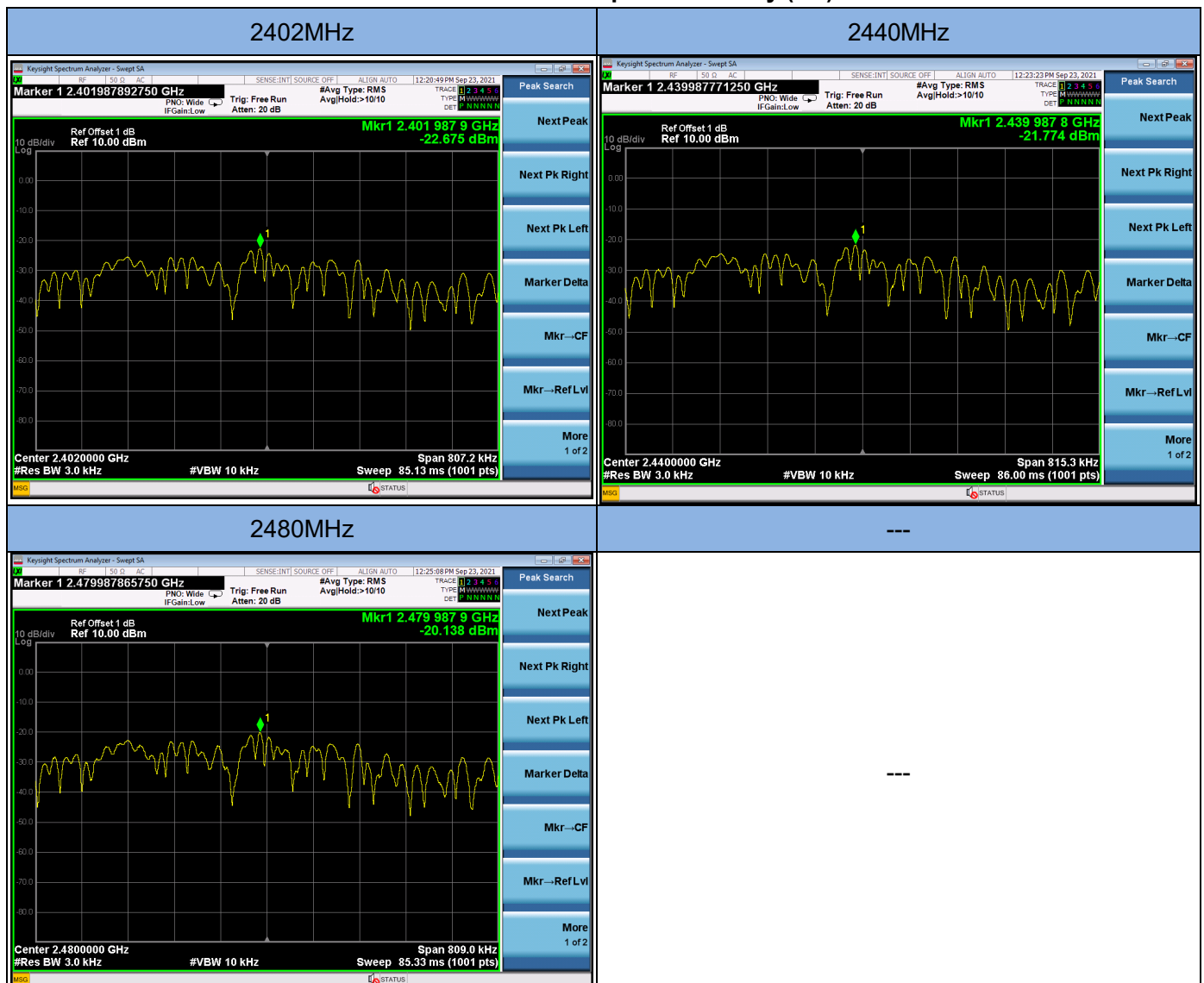
TEST RESULTS

PASS

Please refer to the following tables.

GFSK					
Channel	Frequency (MHz)	RF PHY (Mbps)	PSD dBm / 3kHz	Limit dBm / 3kHz	Results
0	2402	1	-22.675	8	PASS
19	2440	1	-21.774	8	PASS
39	2480	1	-20.138	8	PASS

Test Plots of Power Spectral Density (1M)

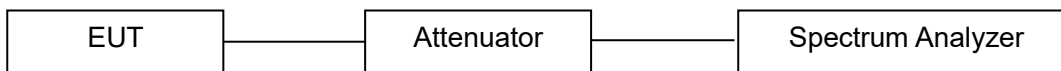


13.5 Band Edge and Conducted Spurious Emissions Measurement

LIMIT

In any 100KHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer was set as below according to ANSI C63.10-2013, Section 11.11

Measurement Procedure REF

- a. Set the RBW = 100 kHz.
- b. Set the VBW $\geq$ 300 kHz.
- c. Set the Detector = peak.
- d. Set the Sweep time = auto couple.
- e. Trace mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOB

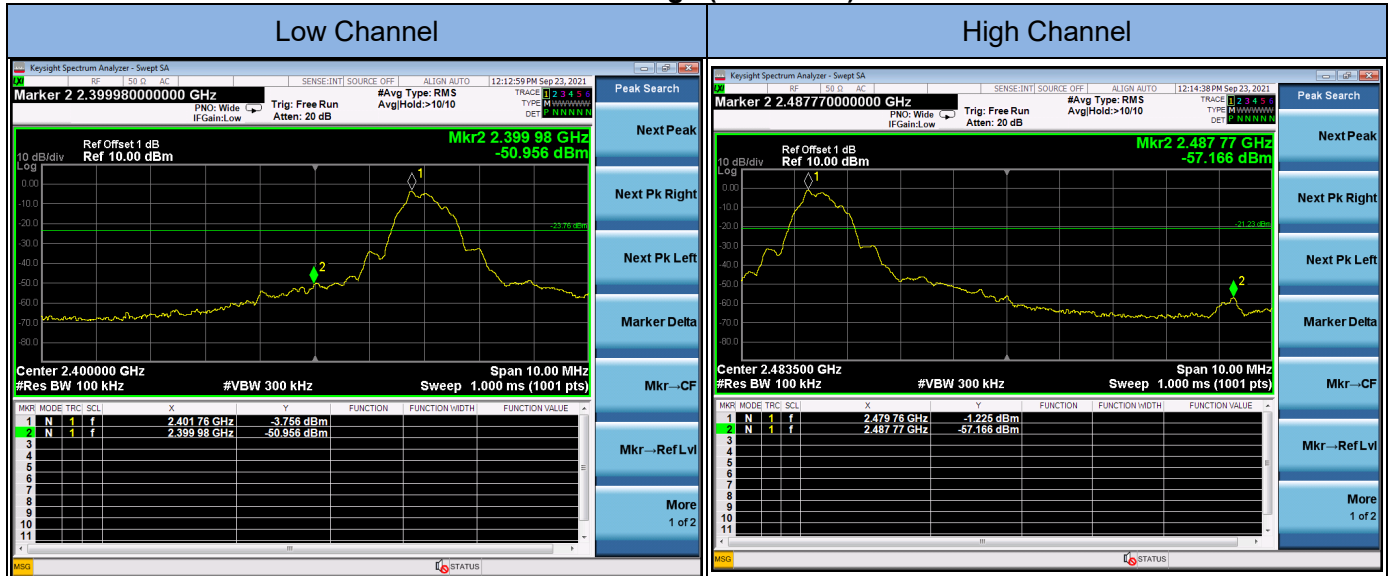
- a. Set RBW = 100 kHz.
- b. Set VBW $\geq$ 300 kHz.
- c. Set the Detector = peak.
- d. Set the Sweep = auto couple.
- e. Set the Trace Mode = max hold.
- f. Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum amplitude level.

TEST RESULTS

PASS

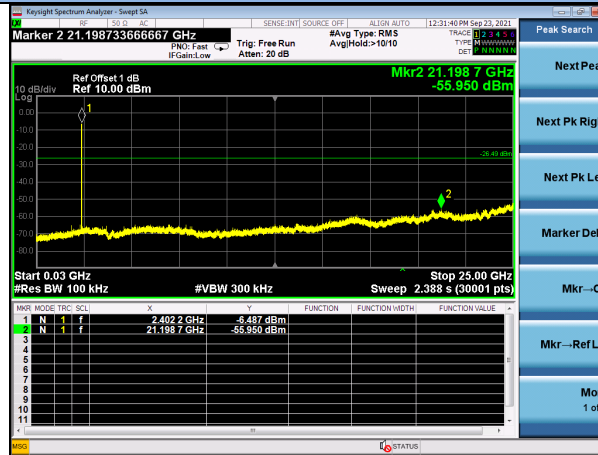
Please refer to the following test plots.

Band Edge (GFSK: 1M)

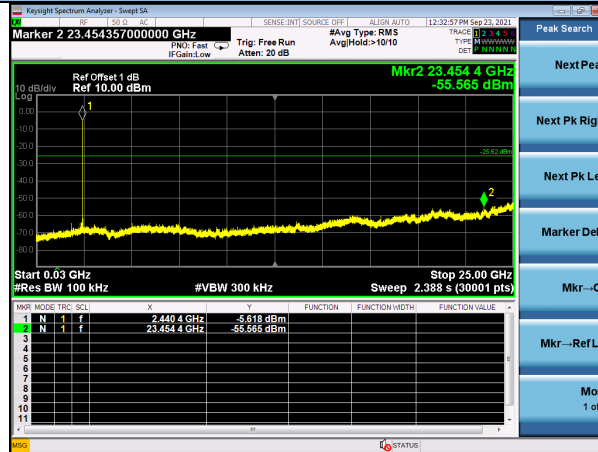


Conducted Spurious Emissions (GFSK: 1Mbps)

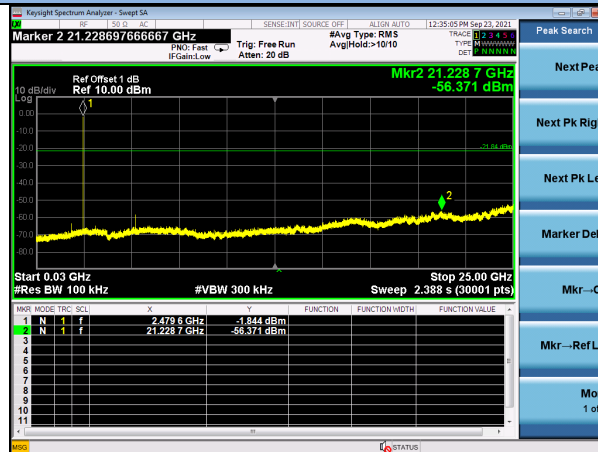
Low Channel / 30MHz~25GHz



Mid Channel / 30MHz~25GHz



High Channel / 30MHz~25GHz



13.6 Radiated Spurious Emissions and Restricted Bands Measurement

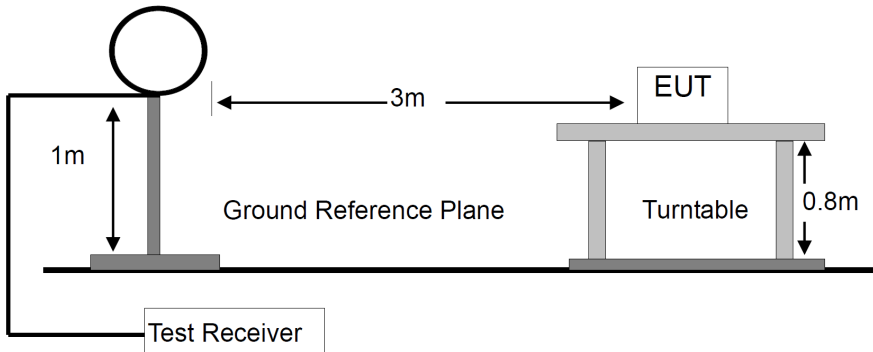
LIMIT

Frequency range MHz	Distance Meters	Field Strengths Limit (15.209)
		$\mu\text{V/m}$
0.009 ~ 0.490	300	$2400/F(\text{kHz})$
0.490 ~ 1.705	30	$24000/F(\text{kHz})$
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

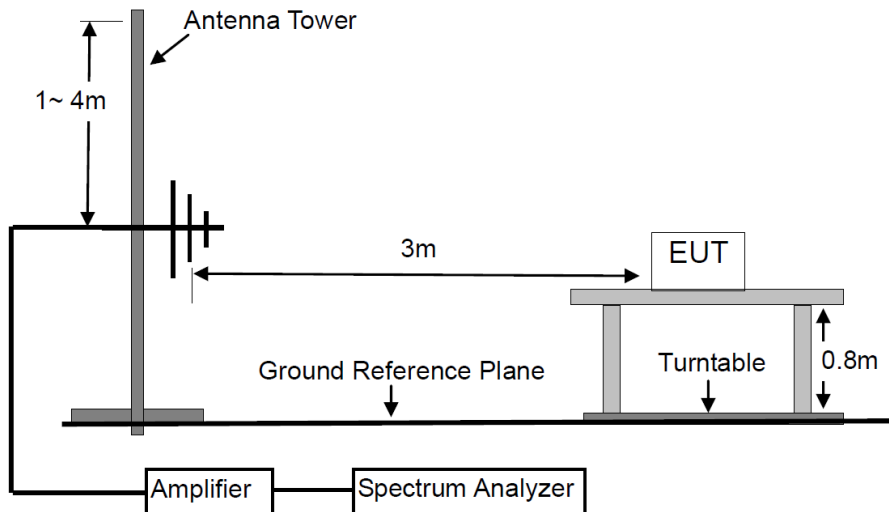
- Remark:
- (1) Emission level (dB) μV = 20 log Emission level $\mu\text{V/m}$.
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field 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

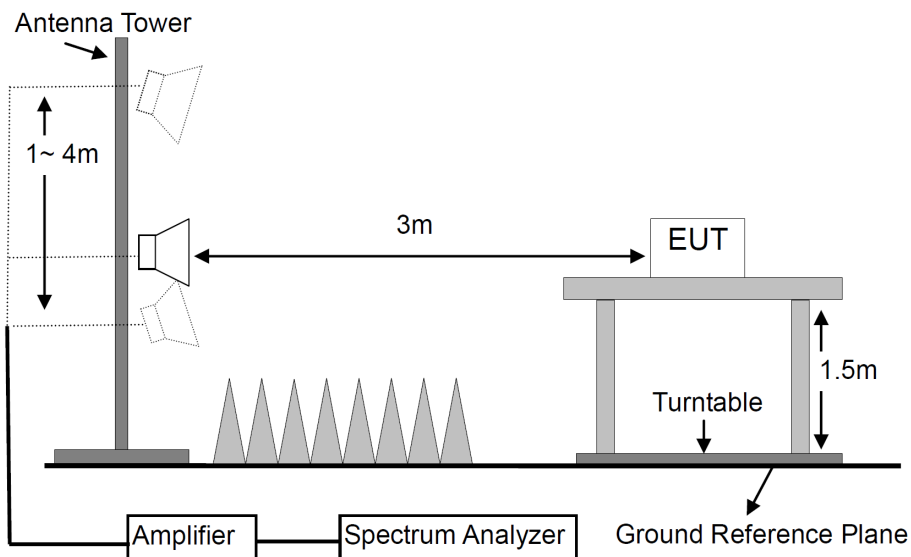
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.



TEST PROCEDURES

- a. 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.
- b. 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.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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

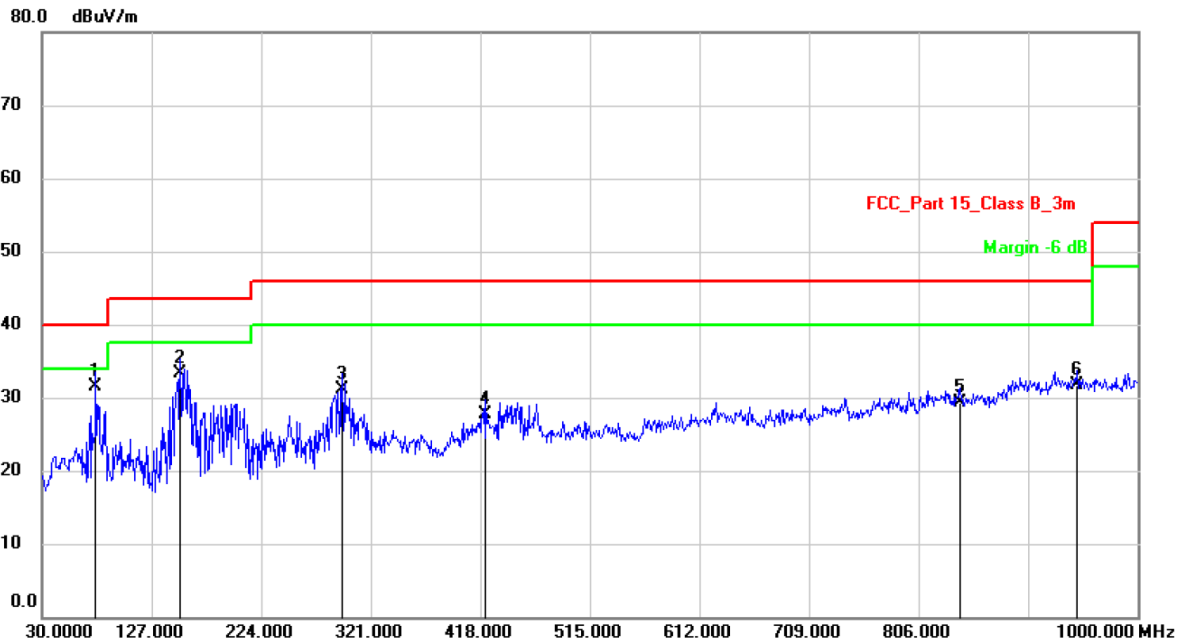
Please refer to the following pages.

M/N: B-CON	Testing Voltage: AC120V 60Hz
Polarization: Horizontal	Detector: QP
Test Mode: 4 (GFSK 1M)	Distance: 3m

Radiated Emission Measurement

Date: 2021/12/1

Time: 9:30:02



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1 *	77.5300	43.57	-12.07	31.50	40.00	-8.50	QP
2	152.2200	44.19	-10.79	33.40	43.50	-10.10	QP
3	295.7800	36.80	-5.60	31.20	46.00	-14.80	QP
4	422.8500	30.66	-2.96	27.70	46.00	-18.30	QP
5	842.8600	24.62	4.68	29.30	46.00	-16.70	QP
6	946.6500	25.54	6.26	31.80	46.00	-14.20	QP

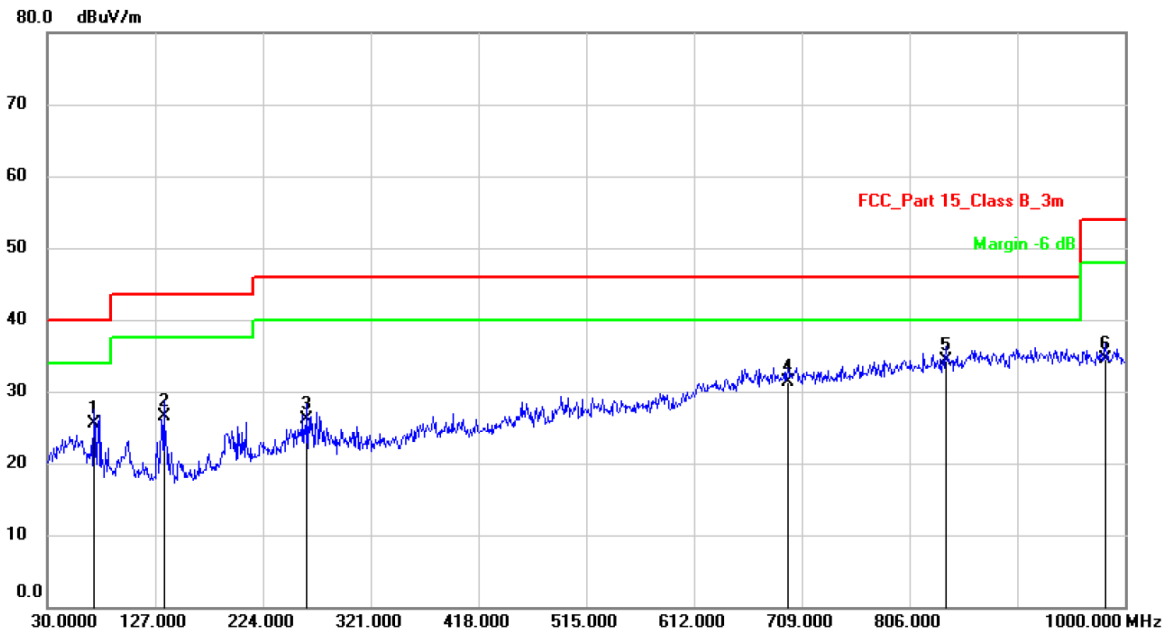
Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.

M/N: B-CON	Testing Voltage: AC120V 60Hz
Polarization: Vertical	Detector: QP
Test Mode: 4 (GFSK 1M)	Distance: 3m

Radiated Emission Measurement

Date: 2021/12/1

Time: 9:36:25



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	71.6100	36.35	-10.85	25.50	40.00	-14.50	QP
2	134.6600	37.93	-11.33	26.60	43.50	-16.90	QP
3	263.7700	33.31	-7.11	26.20	46.00	-19.80	QP
4	696.3900	29.30	2.10	31.40	46.00	-14.60	QP
5 *	838.9800	29.68	4.62	34.30	46.00	-11.70	QP
6	982.5400	29.32	5.28	34.60	54.00	-19.40	QP

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

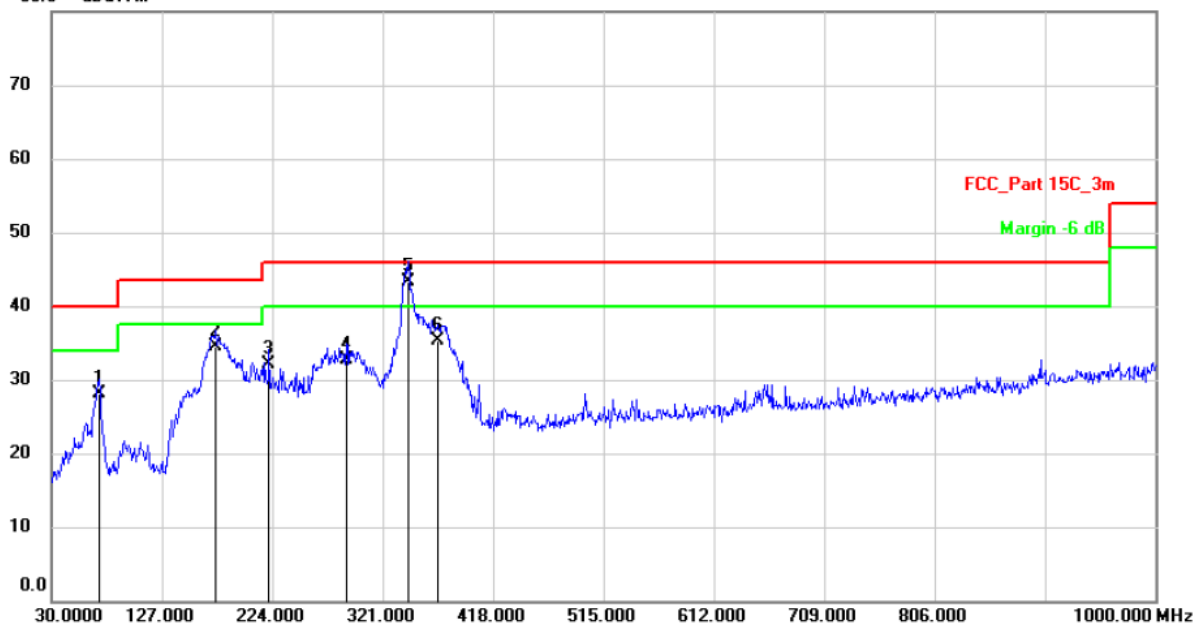
M/N: B-CON(II)	Testing Voltage: DC 12V
Polarization: Horizontal	Detector: QP
Test Mode: 4 (GFSK 1M)	Distance: 3m

Radiated Emission Measurement

Date: 2025/5/28

Time: 0:26:25

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		71.7100	39.26	-11.16	28.10	40.00	-11.90	QP	
2		174.5300	44.30	-9.70	34.60	43.50	-8.90	QP	
3		221.0900	39.46	-7.36	32.10	46.00	-13.90	QP	
4		288.9900	38.55	-5.75	32.80	46.00	-13.20	QP	
5	*	343.3100	47.68	-4.28	43.40	46.00	-2.60	QP	
6		369.5000	39.29	-3.89	35.40	46.00	-10.60	QP	

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

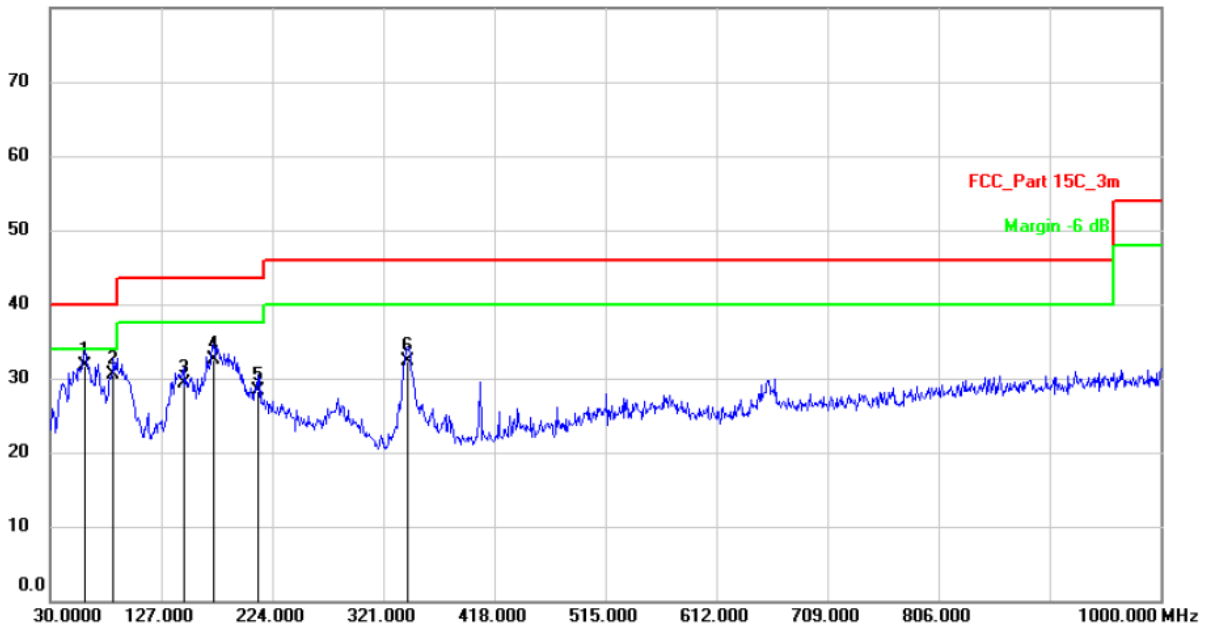
M/N: B-CON(II)	Testing Voltage: DC 12V
Polarization: Vertical	Detector: QP
Test Mode: 4 (GFSK 1M)	Distance: 3m

Radiated Emission Measurement

Date: 2025/5/28

Time: 0:31:37

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	60.0700	39.39	-7.59	31.80	40.00	-8.20	QP	
2		85.2900	41.32	-10.72	30.60	40.00	-9.40	QP	
3		146.4000	41.11	-11.71	29.40	43.50	-14.10	QP	
4		172.5900	42.66	-10.06	32.60	43.50	-10.90	QP	
5		211.3900	36.97	-8.57	28.40	43.50	-15.10	QP	
6		342.3400	37.59	-5.29	32.30	46.00	-13.70	QP	

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

Modulation: GFSK (1M)					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	H	51.16	35.76	6.30	57.46	42.06	74.00	54.00	-16.54	-11.94
7206	H	48.52	35.84	10.44	58.96	46.28	74.00	54.00	-15.04	-7.72

4804	V	51.83	36.51	6.30	58.13	42.81	74.00	54.00	-15.87	-11.19
7206	V	48.50	35.63	10.44	58.94	46.07	74.00	54.00	-15.06	-7.93

Operation Mode: TX Mode (Mid)										
4880	H	49.78	35.43	6.60	56.38	42.03	74.00	54.00	-17.62	-11.97
7320	H	47.81	36.16	10.55	58.36	46.71	74.00	54.00	-15.64	-7.29

4880	V	49.76	36.21	6.60	56.36	42.81	74.00	54.00	-17.64	-11.19
7320	V	48.11	36.20	10.55	58.66	46.75	74.00	54.00	-15.34	-7.25

Operation Mode: TX Mode (High)										
4960	H	50.73	35.20	6.89	57.62	42.09	74.00	54.00	-16.38	-11.91
7440	H	48.88	36.21	10.60	59.48	46.81	74.00	54.00	-14.52	-7.19

4960	V	51.47	35.12	6.89	58.36	42.01	74.00	54.00	-15.64	-11.99
7440	V	48.02	36.13	10.60	58.62	46.73	74.00	54.00	-15.38	-7.27

Spurious Emission in restricted band:										
2390.000	H	49.27	36.50	0.09	49.36	36.59	74.00	54.00	-24.64	-17.41
2390.000	V	48.27	36.76	0.09	48.36	36.85	74.00	54.00	-25.64	-17.15
2398.000	H	51.13	38.49	0.35	51.48	38.84	74.00	54.00	-22.52	-15.16
2398.000	V	51.90	37.56	0.35	52.25	37.91	74.00	54.00	-21.75	-16.09
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.										

13.7 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.247:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

ANTENNA CONNECTED CONSTRUCTION

The antenna is PCB antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 3.5 dBi, Therefore, the antenna is consider meet the requirement.

14. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 12, 2025	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2024	2 Year
3.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 12, 2025	1 Year
4.	Spectrum Analyzer	Keysight	N9010B	MY62170254	Aug. 14, 2024	1 Year
5.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 12, 2025	1 Year
6.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2024	2 Year
7.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 12, 2025	1 Year
8.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 12, 2025	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2024	2 Year
10.	Horn Antenna	COM-Power	AH-840	10100020	Mar. 23, 2024	2 Year
11.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 12, 2025	1 Year
12.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 12, 2025	1 Year
13.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	893606/014	Mar. 12, 2025	1 Year
14.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar. 12, 2025	1 Year
15.	Temperature & Humidity Chamber	Wanshun	SS-HWHS-80	N/A	Mar. 12, 2025	1 Year
16.	DC Source	Maynuo	MY8811	N/A	Mar. 12, 2025	1 Year
17.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
18.	Chamber	SAEMC	9*7*7m	N/A	Apr. 21, 2025	2 Year
19.	Test Software	EZ	EZ EMC, NTC-3A1.1	N/A	N/A	N/A
20.	Test Software	MWRF	MTS 8310, V2.0.0.0	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.

---End---