

TEST REPORT

Application No.: HKEM2502000085HS
Applicant: Black Diamond Equipment
Address of Applicant: 2084 East 3900 South, Salt Lake City, Utah 84124, USA
Equipment Under Test (EUT):
EUT Name: Consumer Use Battery Operated Light
Model No.: BD062832 MEGAWATT HEADLAMP REMOTE
FCC ID: REMBD062832
Standard(s) : 47 CFR Part 15, Subpart C 15.231
Date of Receipt: 2025-02-12
Date of Test: 2025-02-12 to 2025-02-19
Date of Issue: 2025-02-19

Test Result:	The submitted sample was found to comply with the test requirement
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Law Man Kit
 EMC Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Revision Record			
Revision No.	Date	Report superseded	Remark

Authorized for issue by:				
				
		Chan Chun Lok /Test Engineer		Date: 2025-02-19
				
		Law Man Kit /Reviewer		Date: 2025-02-19

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Average Factor	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 7.5	47 CFR Part 15, Subpart C 15.231(b)(2)	Pass
Provision of Momentary operation	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 7.8.6	47 CFR Part 15, Subpart C 15.231(a)(1)	Pass
20dB Bandwidth	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.9.2	47 CFR Part 15, Subpart C 15.231(c)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Emission	47 CFR Part 15, Subpart C 15.231	ANSI C 63.10: Clause 6.4, 6.5 and 6.6	47 CFR Part 15, Subpart C 15.231(b)	Pass

Declaration of EUT Family Grouping:

N/A

Abbreviation:

Tx: In this whole report Tx (or tx) means Transmitter.
 Rx: In this whole report Rx (or rx) means Receiver.
 RF: In this whole report RF means Radiated Frequency.
 CH: In this whole report CH means channel.
 Volt: In this whole report Volt means Voltage.
 Temp: In this whole report Temp means Temperature.
 Humid: In this whole report Humid means humidity.
 Press: In this whole report Press means Pressure.
 N/A: In this whole report not application.

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4 General Information

4.1 Details of E.U.T.

Power supply:	RC: DC 3 V ('CR2032' size battery x 1)
Test voltage:	RC: DC 3 V
Cable:	N/A
Antenna Gain:	0 dBi
Antenna Type:	PCB Antenna
Modulation Type:	FSK
Number of Channels:	1
Operation Frequency:	433.86MHz

Frequency List:

Channel	Frequency (MHz)
1	433.86

The frequencies under test are bolded.

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Modulation Configuration

RF software:	N/A			
Modulation	Packet	Packet Type	Packet Size	Power
FSK	Default	Default	Default	Default
Remark: 1. Default value was set in test software as maximum output power setting.				

4.4 Measurement Uncertainty

RF

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Radiated power & Radiated Spurious emission test	4.7dB (30MHz-1GHz)
		4.7dB (1GHz-6GHz)
		4.7dB (6GHz-18GHz)
		5.7dB (18GHz-40GHz)
5	Temperature test	$\pm 1^{\circ}\text{C}$
6	Humidity test	$\pm 3\%$
7	Supply voltages	$\pm 1.5\%$
8	Time	$\pm 3\%$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

According to decision rule based on Clause 4.2 of CISPR 16-4-2, the EUT complied with the standards specified above.

4.5 Test Location

All tests were performed at:

SGS Hong Kong Limited

Unit 2 and 3, G/F, Block A, Po Lung Centre,

11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **IAS Accreditation (Lab Code: TL-817)**

SGS Hong Kong Limited has met the requirements of AC89, IAS Accreditation Criteria for Testing Laboratories, and has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

The report must not be used by the client to claim product certification, approval, or endorsement by IAS, NIST, or any agency of the Federal Government.

- **FCC Recognized Accredited Test Firm(CAB Registration No.: 514599)**

SGS Hong Kong Limited has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: HK0015, Test Firm Registration Number: 514599.

- **Industry Canada (Site Registration No.: 26103; CAB Identifier No.: HK0015)**

SGS Hong Kong Limited has been recognized by Department of Innovation, Science and Economic Development (ISED) Canada as a wireless testing laboratory. The acceptance letter from the ISED is maintained in our files. CAB Identifier No: HK0015, Site Registration Number: 26103.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Radiated Emissions which fall in the restricted bands, Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ChamPro	N/A	E229	2024/08/09	2025/08/08
Coaxial Cable	SGS	N/A	E167	2024/07/07	2025/07/06
EMI Test Receiver 9kHz to 7GHz	Rohde & Schwarz	ESR7 / 102298	E314	2024/06/13	2025/06/12
Loop Antenna	Rohde & Schwarz	HFH2-Z2 / 871336/48	E327	2024/05/01	2026/04/30
TRILOG Super Broadb. Test Antenna, (25) 30-1000 MHz	Schwarzbeck	VULB 9168	E264	2024/04/04	2025/04/03
EMC32 Test software	Rohde & Schwarz	Version 10	N/A	N/A	N/A
Signal and Spectrum Analyzer 2Hz - 26.5GHz	Rohde & Schwarz	FSW26	E296	2024/10/10	2025/10/09
Horn Antenna 1 - 18GHz	Schwarzbeck	BBHA9120D	E211	2024/03/27	2026/03/26
Preamplifier 33dB, 1 - 18GHz	Schwarzbeck	BBV9718	E214	2024/09/27	2025/09/26
RF cable SMA to SMA 10000mm	HUBER+SUHNER	SF104- 26.5/2*11SMA 45	E207	2024/09/27	2025/09/26
Boresight Mast Controller	ChamPro	AM-BS-4500-E	E237	N/A	N/A
Turntable with Controller	ChamPro	EM1000	E238	N/A	N/A

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Digital temperature & humidity data logger	SATO	SK-L200TH II	E232	2024/10/16	2025/10/15
Electronic Digital Thermometer with Hygrometer	nil	2074/2075	E159	2024/10/16	2025/10/15
Barometer with digital thermometer	SATO	7612-00	E218	2024/07/02	2025/07/01
Conditional Chamber	Zhong Zhi Testing Instruments	CZ-E-608D	E216	2024/10/10	2025/10/09

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

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.



EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0 dBi.

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

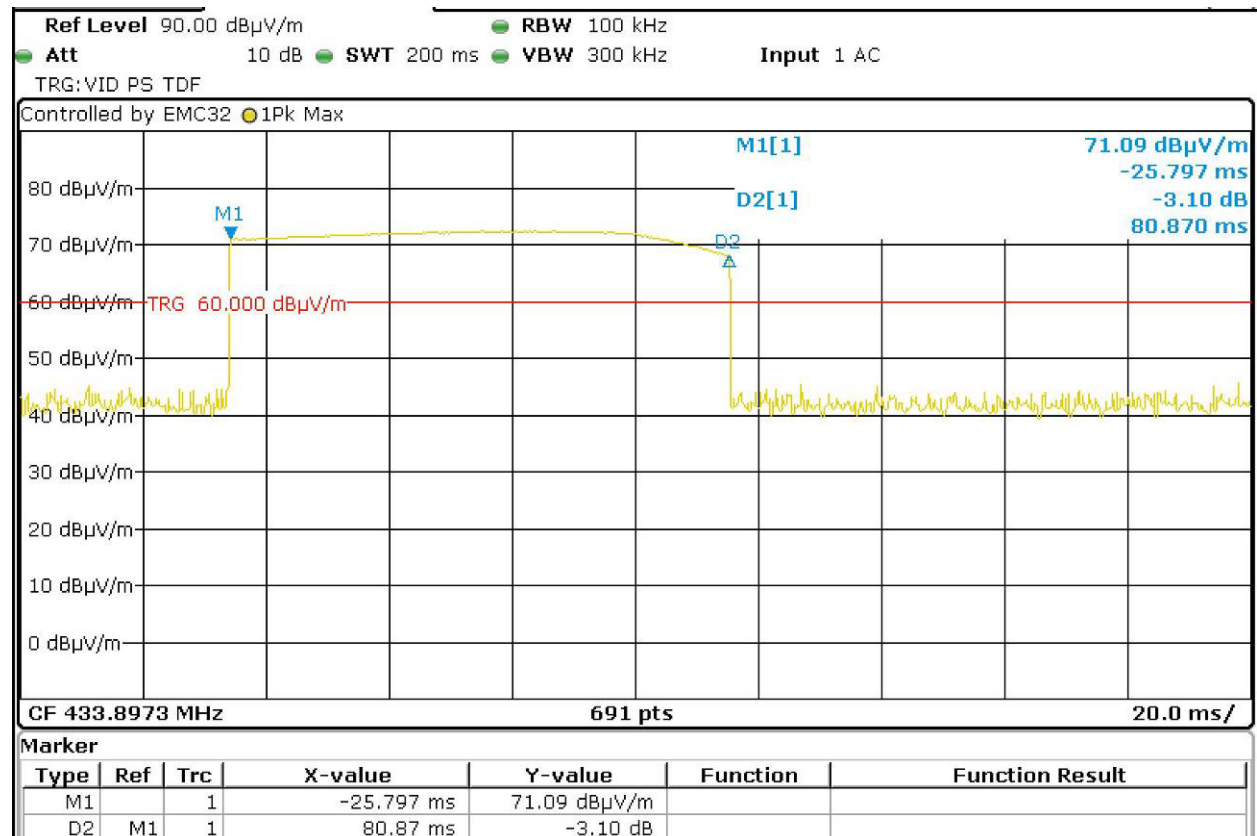
7.1 Average Factor

Test Requirement 47 CFR Part 15, Subpart C 15.231(b)(2)
Test Method: ANSI C63.10 (2013) Section 7.5

Average Factor

$$= 20 \times \log (80.87/100)$$

$$= -1.8 \text{ dB}$$



7.2 Provision of Momentary operation

Test Requirement 47 CFR Part 15, Subpart C 15.231(a)(1)

Test Method: ANSI C63.10 (2013) Section 7.4

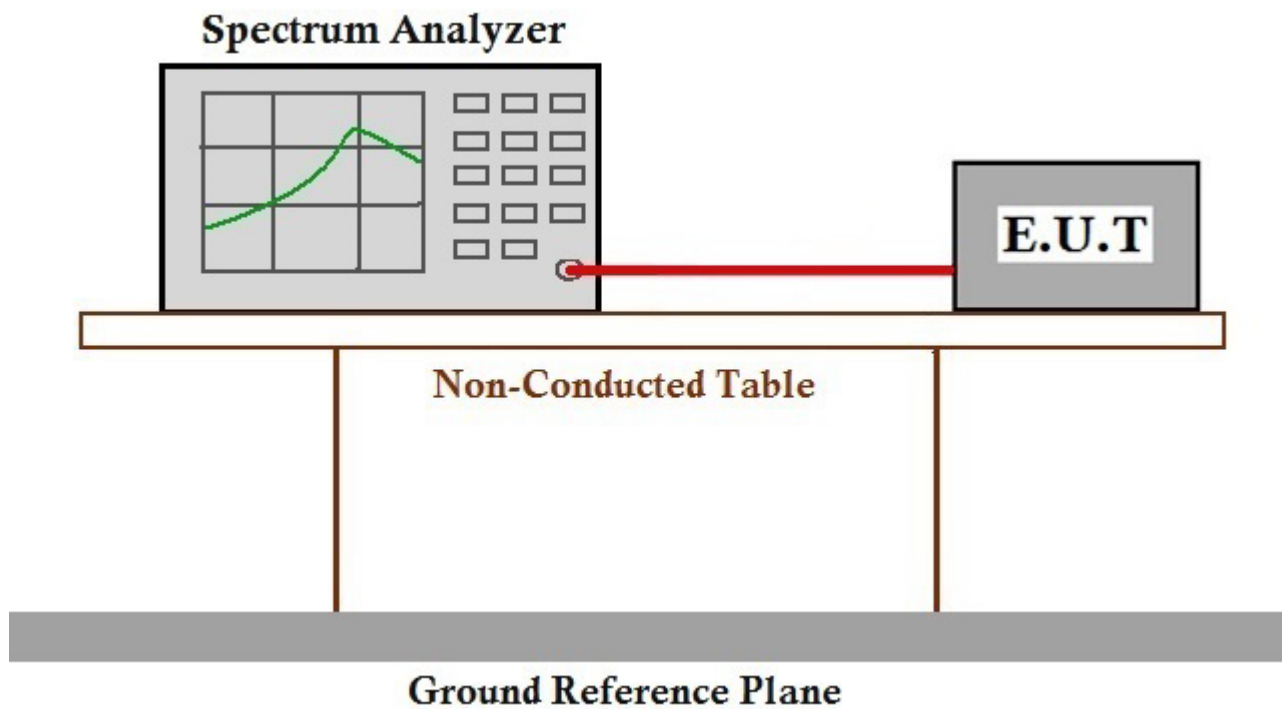
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 27.6 °C Humidity: 52.8 % RH :

Test mode a: TX mode_Keep the EUT in continuously transmitting mode with FSK modulation. All modes have been tested and only the data of worst is recorded in the report.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test method see: ANSI C63.10 (2013) Section 11.6

The detailed test data see: Appendix 15.231

7.3 20dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.231(c)
Test Method:	ANSI C63.10 (2013) Section 6.9.2
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

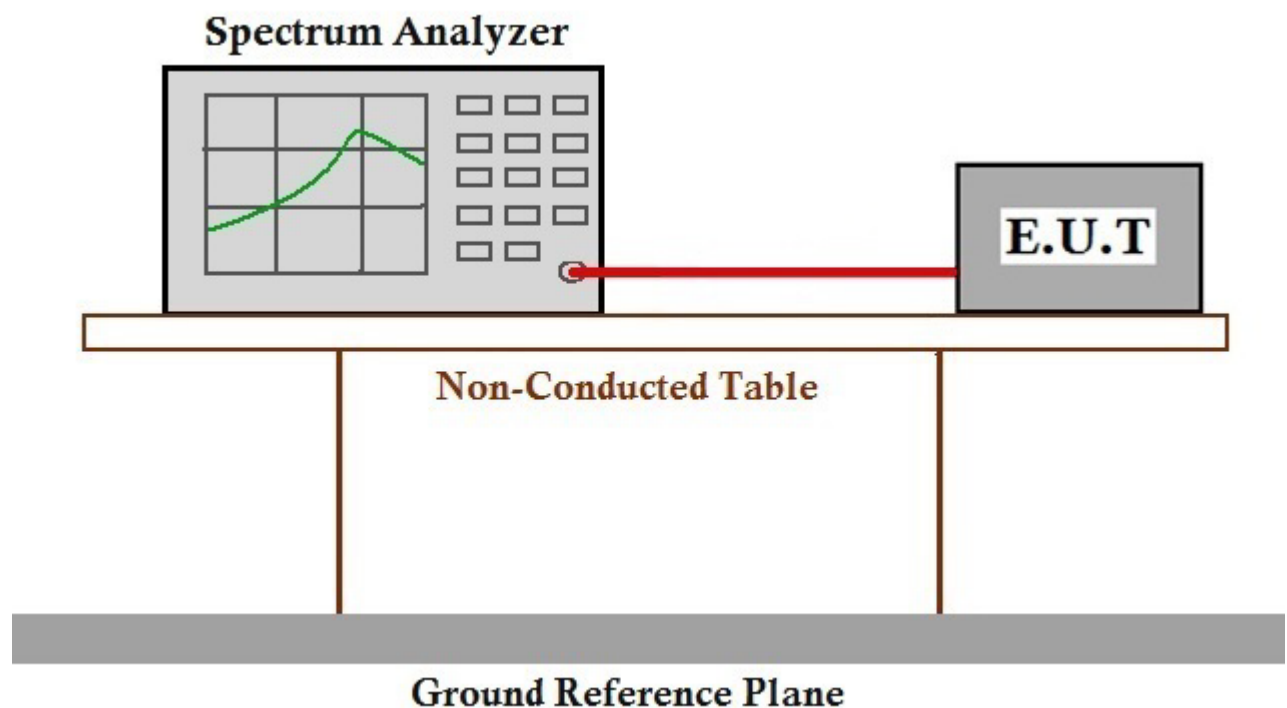
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C Humidity: 52.7 % RH :

Test mode a: TX mode_Keep the EUT in continuously transmitting mode with FSK modulation. All modes have been tested and only the data of worst is recorded in the report.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test method see: ANSI C63.10 (2013) Section 6.9.2

The detailed test data see: Appendix 15.231

7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6
Measurement Distance: 3m
Limit:

Frequency (MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

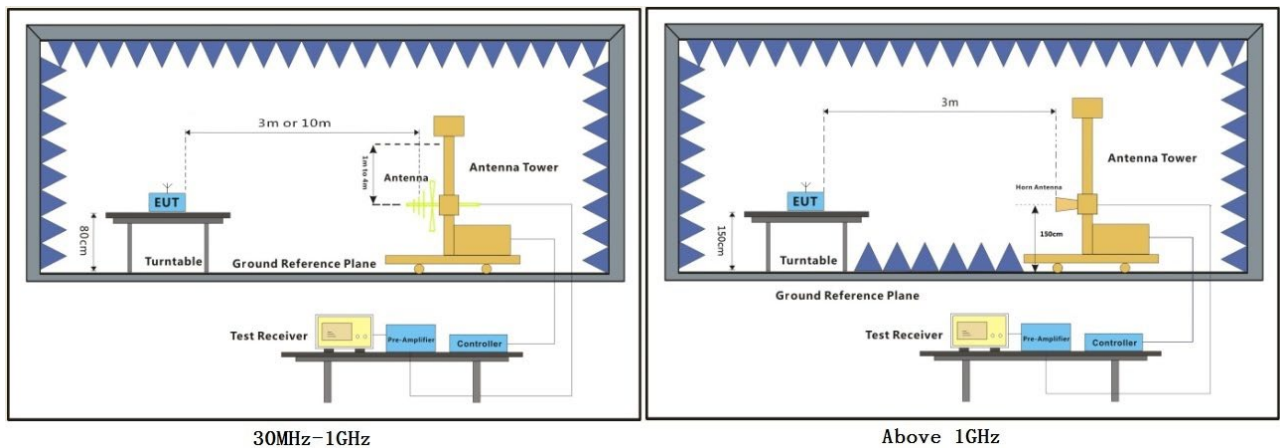
7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C Humidity: 53.8 % RH :

Test mode a: TX mode_Keep the EUT in continuously transmitting mode with FSK modulation. All modes have been tested and only the data of worst is recorded in the report.

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Result
		Peak	Average	Peak	Average	
410.000	H	27.3	9.4	74.0	54.0	Pass
608.000	H	33.1	14.7	74.0	54.0	Pass
410.000	V	27.1	9.2	74.0	54.0	Pass
608.000	V	31.6	14.7	74.0	54.0	Pass

7.5 Radiated Emissions

Test Requirement FCC Part15 C section 15.231(b)
Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6
Measurement Distance: 3m
Limit:

Fundamental Frequency MHz	Field Strength of Fundamental (dBμV/m @ 3 m)	Field Strength of Harmonics and Spurious Emissions (dBμV/m @ 3 m)
40.66 to 40.70	67.04	47.04
70 to 130	61.94	41.94
130 to 174	61.94 to 71.48	41.94 to 51.48
174 to 260	71.48	51.48
260 to 470	71.48 to 81.94	51.48 to 61.94
Above 470	81.94	61.94
Detector:	Peak for pre-scan QP for 30MHz to1000 MHz:120 kHz resolution bandwidth Peak for Above 1 GHz: 1 MHz resolution bandwidth	

** linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$; for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The fundamental frequency of the EUT is 433.86 MHz

The limit for average or QP field strength dBuV/m for the fundamental emission= 80.8 dBμV/m

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuV/m for the spurious emission=60.8 dBuV/m. Spurious in the restricted bands must be less than 60.8 dBuV/m or 15.209, whichever limit permits a higher field strength.

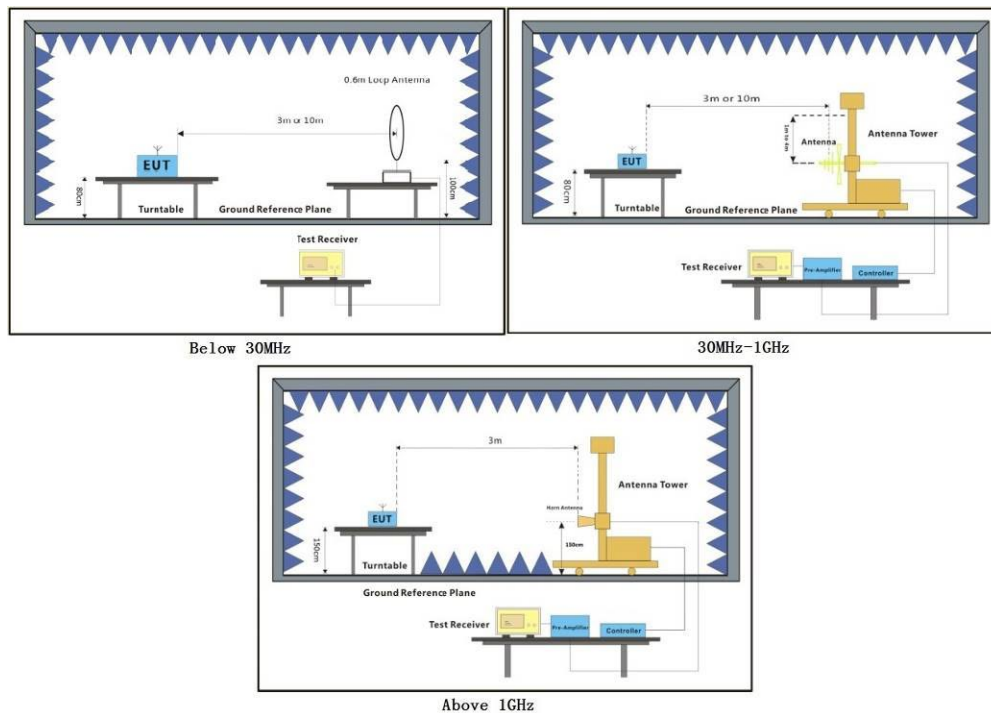
7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C Humidity: 52.8 % RH :

Test a: TX mode_Keep the EUT in continuously transmitting mode with FSK modulation. All modes have been tested and only the data of worst is recorded in the report.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

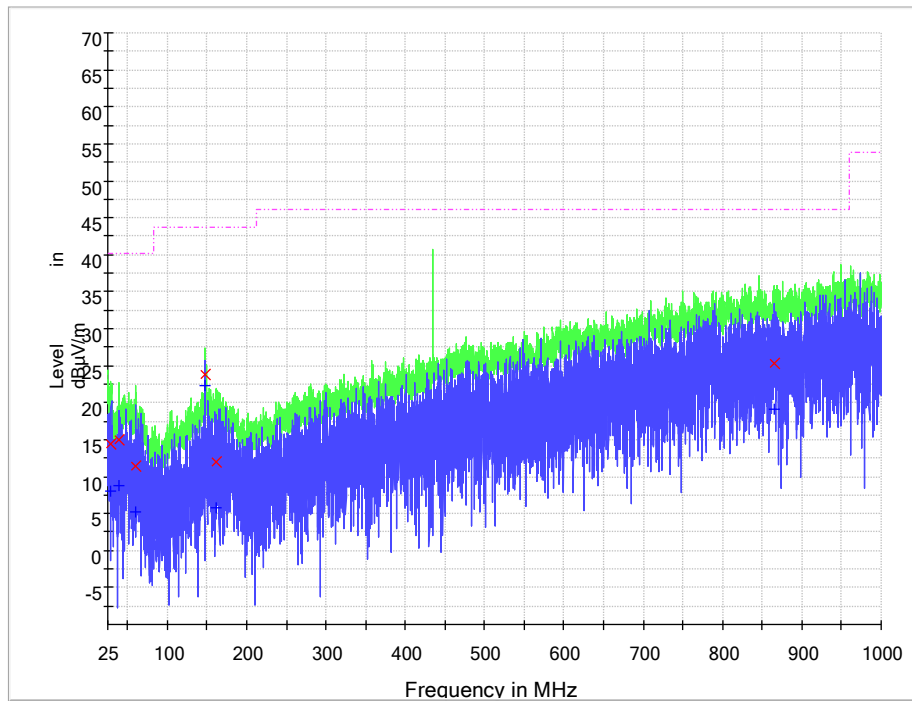
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

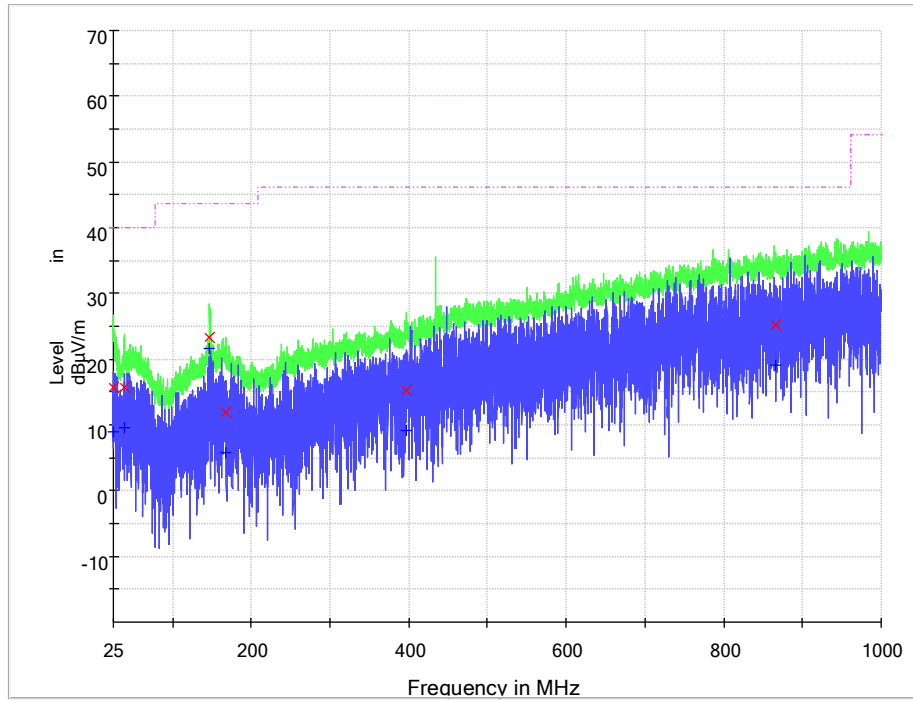
Radiated emission below 1GHz

Mode:a; Polarization:Horizontal



Frequency (MHz)	QuasiPeak (dBμV/m)	Pol.	Corr. (dB/m)	Margin (dB)	Limit (dBμV/m)	Result
28.830357	14.3	H	19.0	47.1	40.0	Pass
38.789286	15.0	H	19.8	46.4	40.0	Pass
60.100000	11.4	H	20.2	32.0	40.0	Pass
147.432143	23.8	H	21.0	37.6	43.5	Pass
162.405357	11.9	H	21.1	49.5	43.5	Pass
866.000000	25.2	H	33.5	36.2	46.0	Pass

Mode:a; Polarization:Vertical



Frequency (MHz)	QuasiPeak (dBμV/m)	Pol.	Corr. (dB/m)	Margin (dB)	Limit (dBμV/m)	Result
25.766071	15.8	V	20.1	45.6	40.0	Pass
38.510714	15.8	V	19.8	45.6	40.0	Pass
147.432143	23.3	V	21.0	38.1	43.0	Pass
167.210714	11.9	V	21.0	49.6	43.0	Pass
397.171429	15.2	V	24.5	46.2	46.0	Pass
866.000000	25.2	V	33.5	36.2	46.0	Pass

Above 1GHz

Frequency (MHz)	Antenna Polarization	Emission Level (dB μ V/m)		Limit (dB μ V/m)		Remark
		Peak	Average	Peak	Average	
1735.469	H	49.6	30.4	74.0	54.0	PASS
3037.188	H	51.9	32.1	74.0	54.0	PASS
4338.750	H	59.0	39.3	74.0	54.0	PASS
3037.031	V	51.7	31.8	74.0	54.0	PASS
3470.781	V	54.9	35.9	74.0	54.0	PASS
4338.906	V	58.5	38.6	74.0	54.0	PASS

Remark: Only the worst case is shown.



8 Photographs

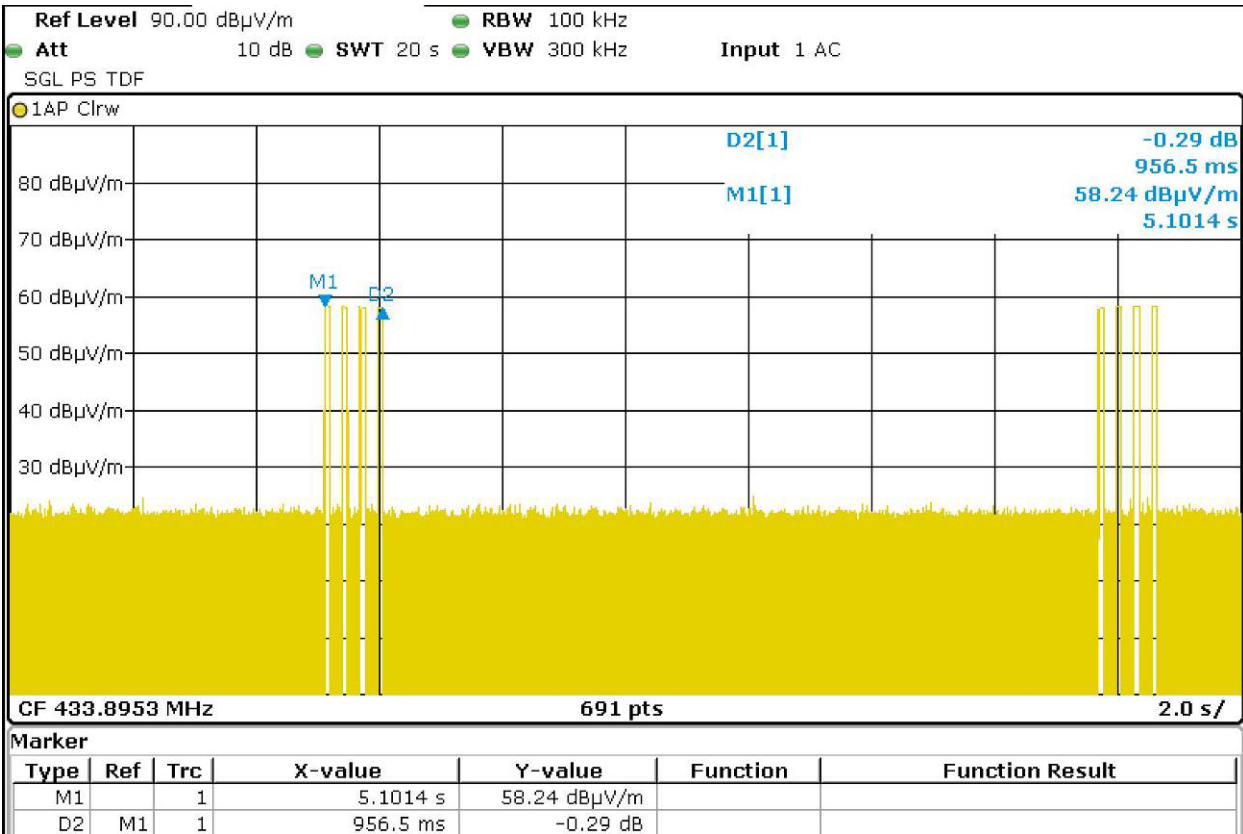
8.1 EUT Constructional Details (EUT Photos)

Refer to the appendices external, internal and setup photos.

9 Appendix 15.231

9.1 Provision of Momentary operation

Frequency (MHz)	Duration of Each Transmission (s)	Limit (s)	Result
433.860000	0.9565	≤ 5	PASS



9.2 Radiated Emissions

Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)		Limit (dBμV/m)		Result
		Peak	Average	Peak	Average	
433.860000	H	67.8	66.0	100.8	80.8	PASS
433.860000	V	52.1	50.3	100.8	80.8	PASS

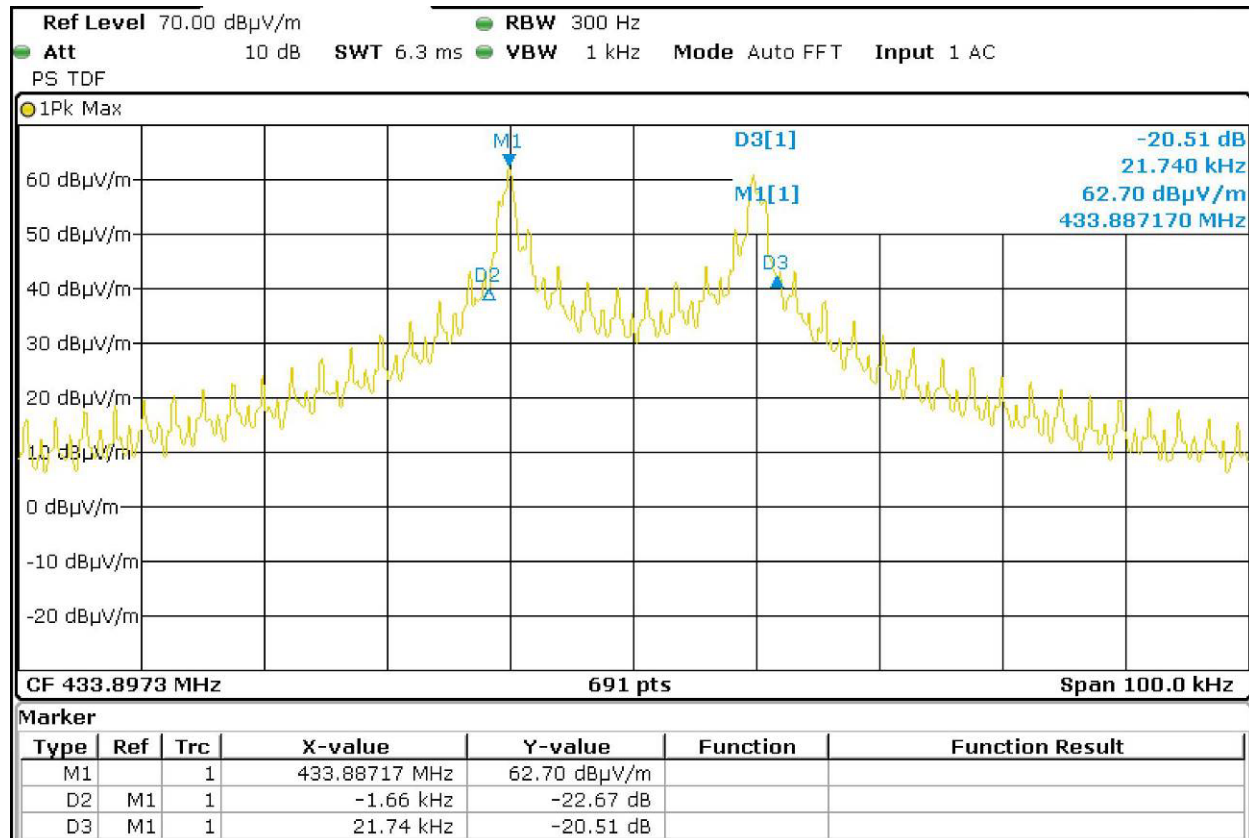
9.3 20dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Max (MHz)	Result
433.860000	0.023400	1.084650	PASS

Limit

= 433.86 x 0.0025

= 1.08465 MHz



- End of the Report -