

# RF TEST REPORT

## FCC / ISED

APPLICANT

**Socket Mobile, Inc.**

MODEL NAME

**D600**

FCC ID

**LUBD600-1**

ISED ID

**2529A-D6001**

REPORT NUMBER

**HA211208-SOC-004-R03**

# TEST REPORT

**Date of Issue**  
February 11, 2022

**Test Site**  
Hyundai C-Tech, Inc. dba HCT America, Inc.  
1726 Ringwood Ave, San Jose, CA 95131, USA

<b>Applicant</b>	Socket Mobile, Inc.
<b>Applicant Address</b>	39700 Eureka Drive, Newark, CA 94560, U.S.A.
<b>FCC ID</b>	LUBD600-1
<b>ISED ID</b>	2529A-D6001
<b>Model Name</b>	D600
<b>EUT Type</b>	NFC & RFID Contactless Reader/Writer
<b>Modulation Type</b>	13.56 MHz (ASK) / Bluetooth V5.0 LE (GFSK)
<b>FCC Classification</b>	Digital Transmission System (DTS)
<b>FCC Rule Part(s)</b>	Part 15.209
<b>ISED Rule Part(s)</b>	RSS-Gen Issue 5 (February 2021)
<b>Test Procedure</b>	ANSI C63.10-2013

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures required. The results of testing in this report apply only to the product which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Hyundai C-Tech, Inc. dba HCT America, Inc. certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

**Tested By**



Yongsoo Park

Test Engineer

**Reviewed By**



Sunwoo Kim

Technical Manager

## REVISION HISTORY

*The revision history for this document is shown in table.*

TEST REPORT NO.	DATE	DESCRIPTION
HA211208-SOC-004-R03	02/07/2022	Initial Issue

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## 1. GENERAL INFORMATION

### EUT DESCRIPTION

<b>Model</b>	D600	
<b>S/N</b>	Conducted : C42E1426B24F Radiated : FC33AC759510	
<b>EUT Type</b>	NFC & RFID Contactless Reader/Writer	
<b>Power Supply</b>	Battery Charging : 5 V d.c. Lithium-Ion Battery ; 3.7 VDC, 1400 mAh	
<b>RF Specification</b>	13.56 MHz : ASK Bluetooth LE V5.0 (1 Mbps) : GFSK	
<b>Bluetooth LE V5.0</b>	Model: BGM13P32	FCC ID: QOQBGM13P IC ID: 5123A-BGM13P
<b>Operating Environment</b>	Indoor	
<b>Operating Temperature <sup>(1)</sup></b>	-20 °C ~ 70 °C	

### RF SPECIFICATION SUBJECT TO THE REPORT

<b>Operating Frequency Range</b>	RFID	13.56 MHz
	BLE	2402 – 2480 MHz
<b>RF Specification (Modulation)</b>	13.56 MHz (ASK) / BLE (GFSK)	
<b>Number of Channels</b>	RFID	1 Channel
	BLE	40 Channels
<b>Antenna Specification <sup>(1)</sup></b>	RFID	Antenna Type : Loop Antenna
	BLE	Antenna Type : Chip Antenna (Peak Gain : 1 dBi)
<b>Firmware Version <sup>(2)</sup></b>	v1.51 (Build 52)	
<b>Hardware Version <sup>(2)</sup></b>	Rev F	
<b>Date(s) of Tests</b>	January 03, 2022 ~ January 10, 2022	

#### Note :

1. Antenna information is based on the document provided by the applicant
2. Firmware and Hardware Version are as received by the applicant.

## 2. METHODOLOGY

FCC KDB 558074 D01 DTS Measurement Guidance v05r02 dated April 2nd, 2019 entitled "Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) and the measurement procedure described in ANSI C63.10( Version : 2013) 'the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices'.

### EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

### EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.225 and 15.247 under the FCC Rules Part 15 Subpart C / RSS-Gen issue 5, RSS-247 issue 2.

## GENERAL TEST PROCEDURES

### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz. Above 1GHz with 1.5m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. Also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.10. (Version: 2013)

## DESCRIPTION OF TEST MODES

The EUT has been tested per test setup instruction provided by the manufacturer under continuous Tx operating condition. Testing was performed at the Tx mode using the key card provided by the manufacturer. 'Tera-Term' was used to make sure the device is properly connected and recognized by the computer.

## 3. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment's, which is traceable to recognized national standards. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

## 4. FACILITIES AND ACCREDITATIONS

### FACILITIES

The SAC (Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at 1726 Ringwood Avenue, San Jose, California 95131, USA.

The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.



### EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

## 5. ANTENNA REQUIREMENTS

**According to FCC 47 CFR §15.203:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 shall be considered sufficient to comply with the provisions of this section.”

- (1) The antenna of this E.U.T is permanently attached and there is no provision for connection to an external antenna.
- (2) The E.U.T Complies with the requirement of §15.203



## 6. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{CISPR}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ( $\pm$ dB)
Radiated Emissions (below 1 GHz)	$\pm 6.09$ dB
Radiated Emissions (Above 1 GHz)	$\pm 5.23$ dB

## 7. DESCRIPTION OF TESTS

### 7.1 RADIATED EMISSION

#### Radiated Emission Limits

FCC : 47 CFR § 15.209		
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

ISED : RSS-GEN Section 8.9		
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	6.37/F(kHz)	300
0.490 – 1.705	63.7/F(kHz)	30
1.705 – 30	0.08	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

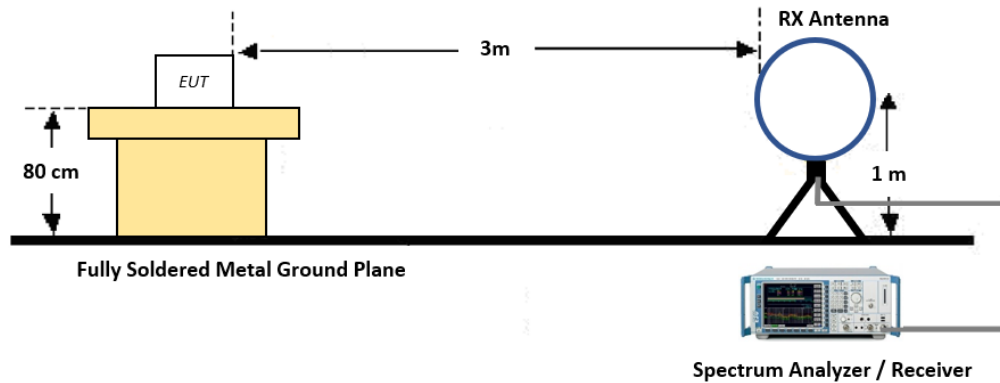
## Restricted Bands of Operation

FCC : 47 CFR § 15.205(a)				
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660.0 - 1710.0	8025 - 8500
0.495 - 0.505	12.51975 - 12.52025	156.52475 - 156.52525	1718.8 - 1722.2	9000 - 9200
2.1735 - 2.1905	12.57675 - 12.57725	156.7 - 156.9	2200.0 - 2300.0	9300 - 9500
4.125 - 4.128	13.36 - 13.41	162.0125 - 167.17	2310.0 - 2390.0	10600 - 12700
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500.0	13250 - 13400
4.20725 - 4.20775	16.69475 - 16.69525	240.0 - 285.0	2690.0 - 2900.0	14470 - 14500
6.215 - 6.218	16.80425 - 16.80475	322.0 - 335.4	3260.0 - 3267.0	15350 - 16200
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410.0	3332.0 - 3339.0	17700 - 21400
6.31175 - 6.31225	37.5 - 38.25	608.0 - 614.0	3345.8 - 3358.0	22010 - 23120
8.291 - 8.294	73 - 74.6	960.0 - 1240.0	3600.0 - 4400.0	23600 - 24000
8.362 - 8.366	74.8 - 75.2	1300.0 - 1427.0	4500.0 - 5150.0	31200 - 31800
8.37625 - 8.38675	108 - 121.94	1435.0 - 1626.5	5350.0 - 5460.0	36430 - 36500
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5	7250.0 - 7750.0	Above 38600

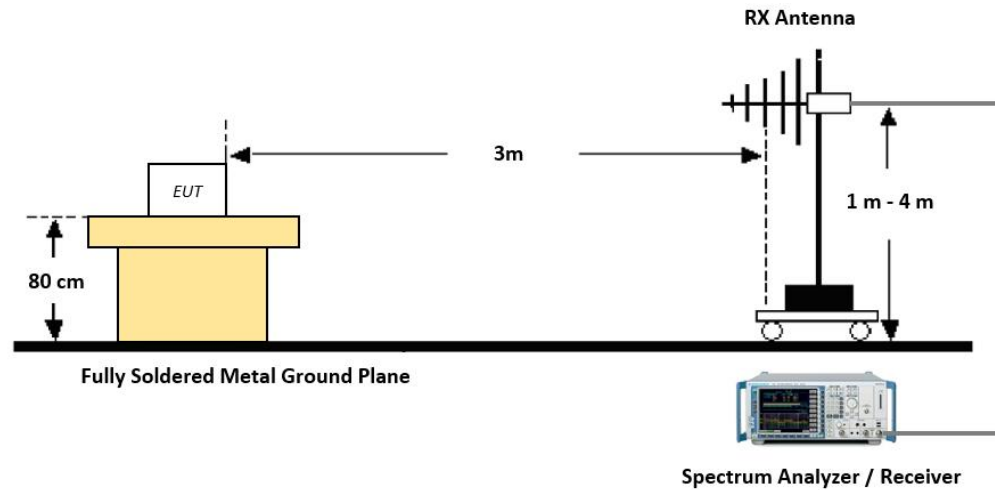
ISED : RSS-GEN Section 8.10				
Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
0.090 - 0.110	8.37625 - 8.38675	108 - 138	1660 - 1710	8025 - 8500
0.495 - 0.505	8.41425 - 8.41475	149.9 - 150.05	1718.8 - 1722.2	9000 - 9200
2.1735 - 2.1905	12.29 - 12.293	156.52475 - 156.52525	2200 - 2300	9300 - 9500
3.020 - 3.026	12.51975 - 12.52025	156.7 - 156.9	2310 - 2390	10600 - 12700
4.125 - 4.128	12.57675 - 12.57725	162.0125 - 167.17	2483.5 - 2500	13250 - 13400
4.17725 - 4.17775	13.36 - 13.41	167.72 - 173.2	2655 - 2900	14470 - 14500
4.20725 - 4.20775	16.42 - 16.423	240 - 285	3260 - 3267	15350 - 16200
5.677 - 5.683	16.69475 - 16.69525	322 - 335.4	3332 - 3339	17700 - 21400
6.215 - 6.218	16.80425 - 16.80475	399.9 - 410	3345.8 - 3358	22010 - 23120
6.26775 - 6.26825	25.5 - 25.67	608 - 614	3500 - 4400	23600 - 24000
6.31175 - 6.31225	37.5 - 38.25	960 - 1427	4500 - 5150	31200 - 31800
8.291 - 8.294	73 - 74.6	1435 - 1626.5	5350 - 5460	36430 - 36500
8.362 - 8.366	74.8 - 75.2	1645.5 - 1646.5	7250 - 7750	Above 38600

## Test Configuration

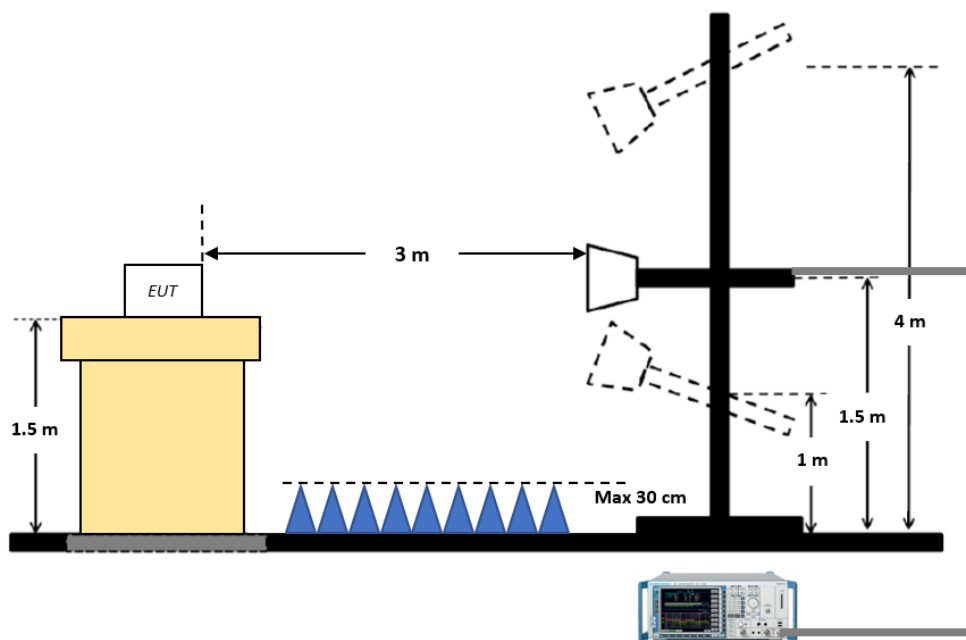
### Below 30 MHz



### 30 MHz - 1 GHz



### Above 1 GHz



#### TEST PROCEDURE OF RADIATED SPURIOUS EMISSION (BELOW 30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor (0.009 MHz – 0.490 MHz) =  $40 \cdot \log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$   
Measurement Distance: 3 m
7. Distance Correction Factor (0.490 MHz – 30 MHz) =  $40 \cdot \log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$   
Measurement Distance: 3 m
8. Spectrum Setting
  - Frequency Range = 9 kHz ~ 30 MHz
  - Detector = Peak
  - Trace = Max hold
  - RBW = 9 kHz
  - VBW  $\geq 3 \cdot \text{RBW}$
9. Total = Reading Value + Antenna Factor (A.F) + Cable Loss (C.L)
10. There is a comparison data both open-field test site and alternative test site – semi-Anechoic chamber according to 414788 D01. And the results are properly calibrated.

#### TEST PROCEDURE OF RADIATED SPURIOUS EMISSION (30 MHz – 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8 m above ground plane.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. Spectrum Setting
  - (1) Measurement Type (Peak):
    - Measured Frequency Range: 30 MHz – 1 GHz
    - Detector = Peak
    - Trace = Max hold
    - RBW = 100 kHz
    - VBW  $\geq 3 \cdot \text{RBW}$
  - (2) Measurement Type(Quasi-peak):
    - Measured Frequency Range: 30 MHz – 1 GHz
    - Detector = Quasi-Peak
    - RBW = 120 kHz
6. Total = Reading Value + Antenna Factor (A.F) + Cable Loss (C.L)

## TEST PROCEDURE OF RADIATED SPURIOUS EMISSION (ABOVE 1 GHz)

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. The unit was tested with its standard battery.
8. Spectrum Setting

### (1) Measurement Type(Peak):

- Measured Frequency Range : 1 GHz – 25 GHz
- Detector = Peak
- Trace = Max hold
- RBW = 1 MHz
- VBW  $\geq 3 \times$  RBW

### (2) Measurement Type(Average): Duty cycle $\geq 98\%$

- Measured Frequency Range : 1 GHz – 25 GHz
- Detector = RMS
- Averaging type = power (*i.e.*, RMS)
- RBW = 1 MHz
- VBW  $\geq 3 \times$  RBW
- Sweep time = auto.
- Trace mode = average (at least 100 traces).

### (3) Measurement Type(Average): Duty cycle $< 98\%$ , duty cycle variations are less than $\pm 2\%$

- Measured Frequency Range : 1 GHz – 25 GHz
- Detector = RMS
- Averaging type = power (*i.e.*, RMS)
- RBW = 1 MHz
- VBW  $\geq 3 \times$  RBW
- Sweep time = auto.
- Trace mode = average (at least 100 traces).
- Correction factor shall be added to the measurement results prior to comparing to the emission limit to compute the emission level that would have been measured had the test been performed at 100 % duty cycle.
- Duty Cycle Factor (dB) : Please refer to the please refer to section 9.1.

10. Measurement value only up to 6 maximum emissions noted or would be lesser if no specific emissions from the EUT are recorded (*i.e.*: margin  $> 20$  dB from the applicable limit) and considered that is already beyond the background noise floor.

## 11. Sample Calculation

- (1) Total (Peak) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G)
- (2) Total (Average, Duty  $\geq 98\%$ ) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G)
- (3) Total (Average, Duty  $< 98\%$ ) = Reading Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Duty Cycle Factor
- (4) Alternative Method : Total (Average) = Total (Peak) +  $20 \log(\text{Duty Cycle})$

## 7.2 TEST CONFIGURATION

### WORST CASE TEST MODE

Since RFID (13.56 MHz, Type B Key card) and Bluetooth LE (2.4 GHz) can co-transmit, Radiated Spurious Emission was measured with both radio frequency 'ON'

Measurement loop antenna polarization and EUT azimuth were varied to find the maximum level of emissions out of the EUT. In addition, all X, Y, and Z positions were investigated to find the worst-case position.

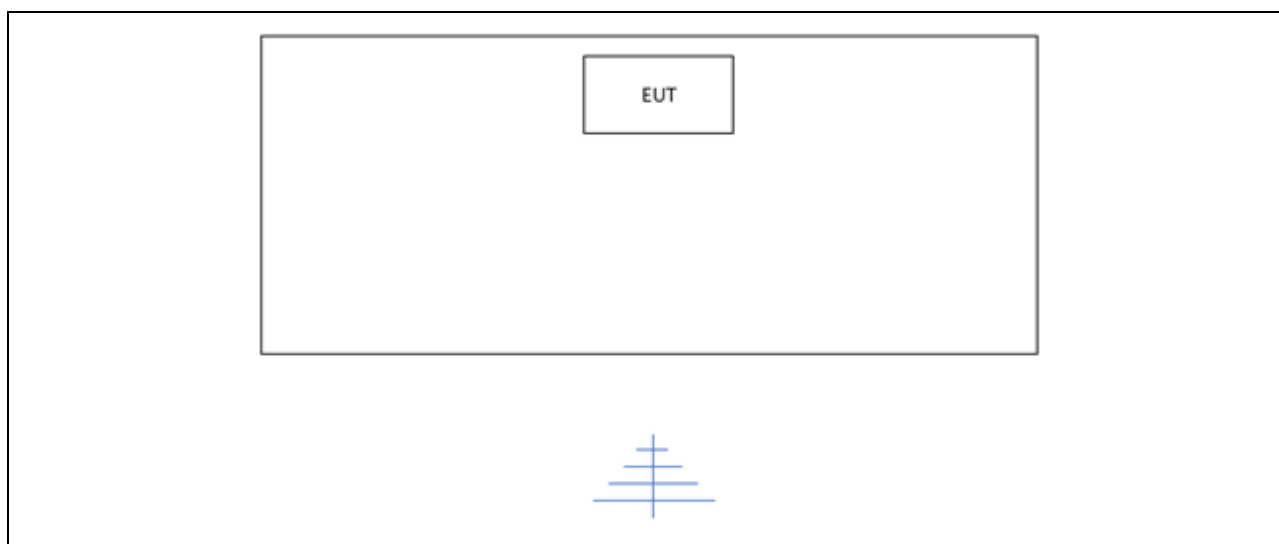
Final test was performed by placing the EUT at the position (Y) which gives the maximum emission.

After investigation of each channels, High channel (2480 MHz) was picked for BLE as the worst case.

Radiated testing was performed with 100% duty cycle

Test item	Modulation Mode	Frequency	PLS
Radiated Spurious emission	Bluetooth LE	2480 MHz	8
	RFID	13.56 MHz	-

### EUT CONFIGURATION



#### Note :

A contactless keycard was placed on the EUT for 13.56 MHz RFID transmission during the radiated emission testing.

## LIST OF SUPPORT EQUIPMENT

Equipment Type	Model No.	Serial Number	Manufacturer	Qty	Note
-					

Note :

-



### Frequency Range : Below 1 GHz

Frequency (MHz)	Polarization	Reading (dBuV)	Corr. <sup>1)</sup> (dB)	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Measurement Type
40.672	V	43.8	-7.5	36.3	40	3.7	QP
40.695	H	38.7	-7.5	31.2	40	8.8	QP
67.805	H	35.2	-12.7	22.5	40	17.5	QP
67.815	V	39.0	-12.7	26.3	40	13.7	QP
176.283	H	37.0	-8.1	28.9	43.5	14.6	QP
176.294	V	32.8	-8.1	24.7	43.5	18.8	QP

### Frequency Range : Above 1 GHz

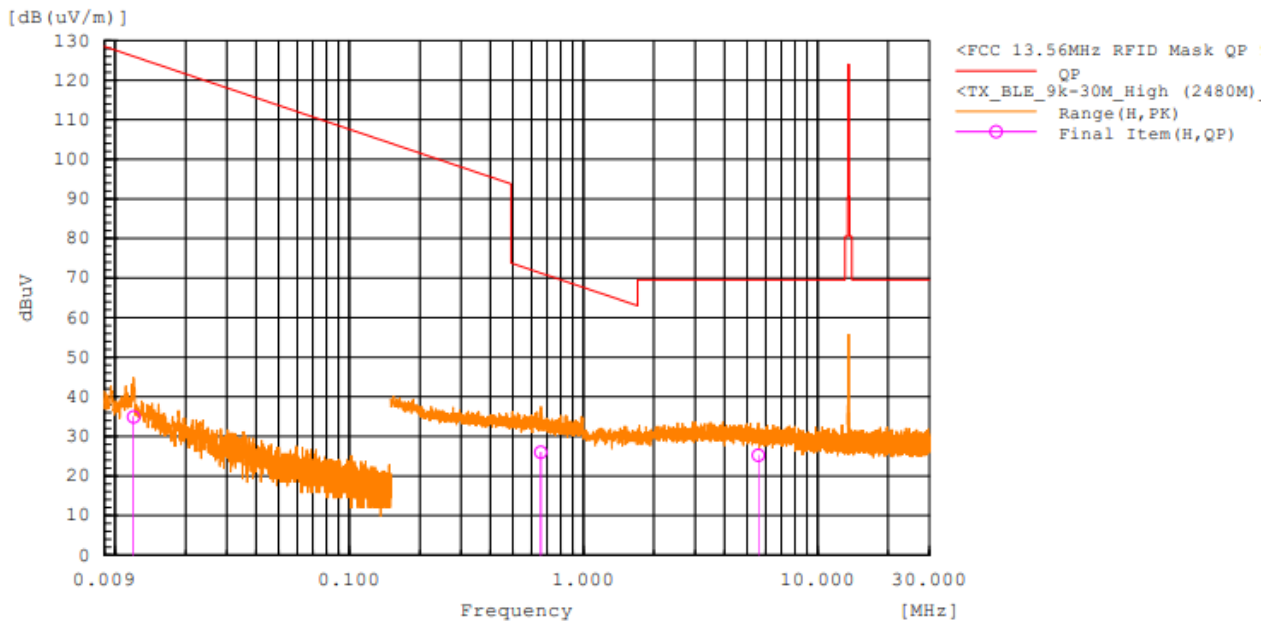
Frequency (MHz)	Polarization	Reading (dBuV)		Factor (dB)	Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
		AV	PK	Corr. <sup>1)</sup>	AV	PK	AV	PK	AV	PK
4959.421	H	47.6	52.7	-4.8	42.8	47.9	54	74	11.2	26.1
4959.537	V	46.0	50.5	-4.8	41.2	45.7	54	74	12.8	28.3
17957.116	H	28.1	35.6	17.9	46.0	53.5	54	74	8.0	20.5
17973.848	V	27.7	34.5	18.0	45.7	52.5	54	74	8.3	21.5

### Notes:

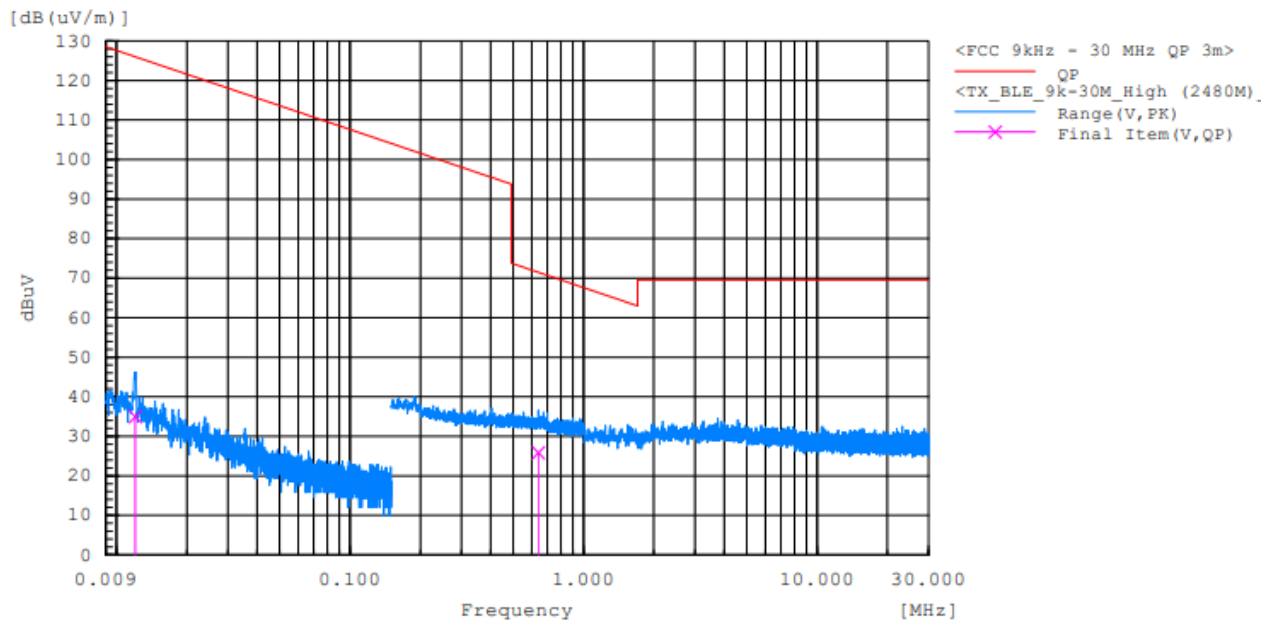
1. Correction Factor: Antenna Factor + Cable loss + Preamplifier Gain

■ TEST PLOTS

**Radiated Spurious Emission 9 kHz – 30 MHz (Antenna Position 180°) : BLE + HF**



**Radiated Spurious Emission 9 kHz – 30 MHz (Antenna Position 90°) : BLE + HF**

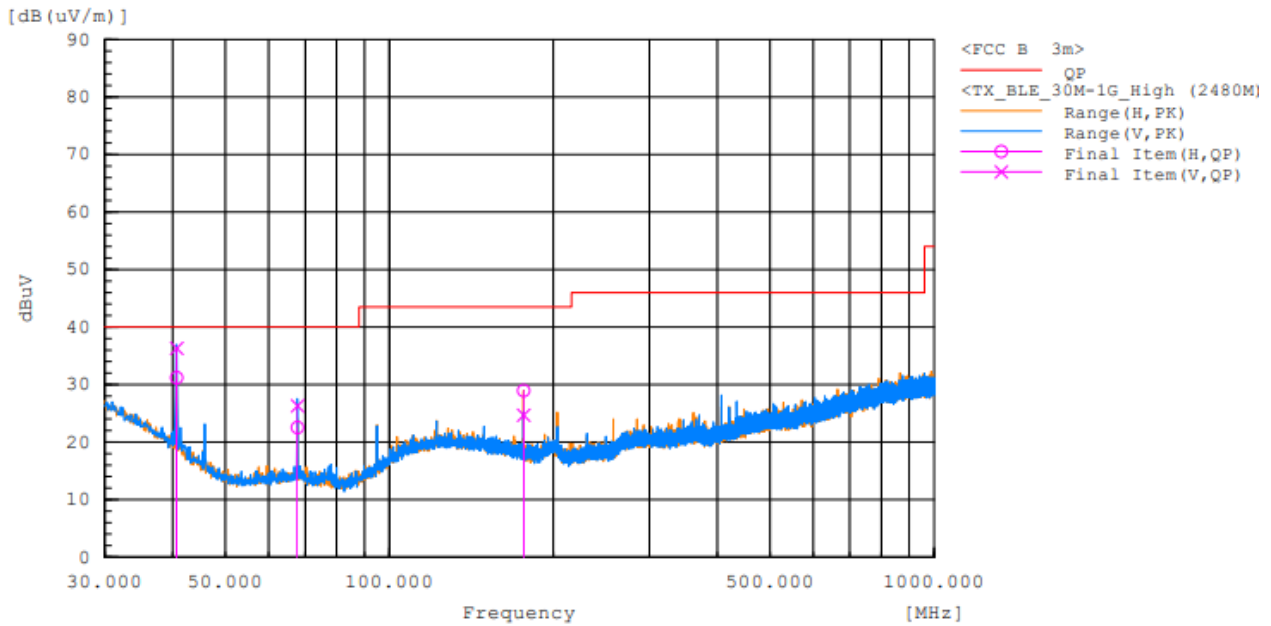


**Note:**

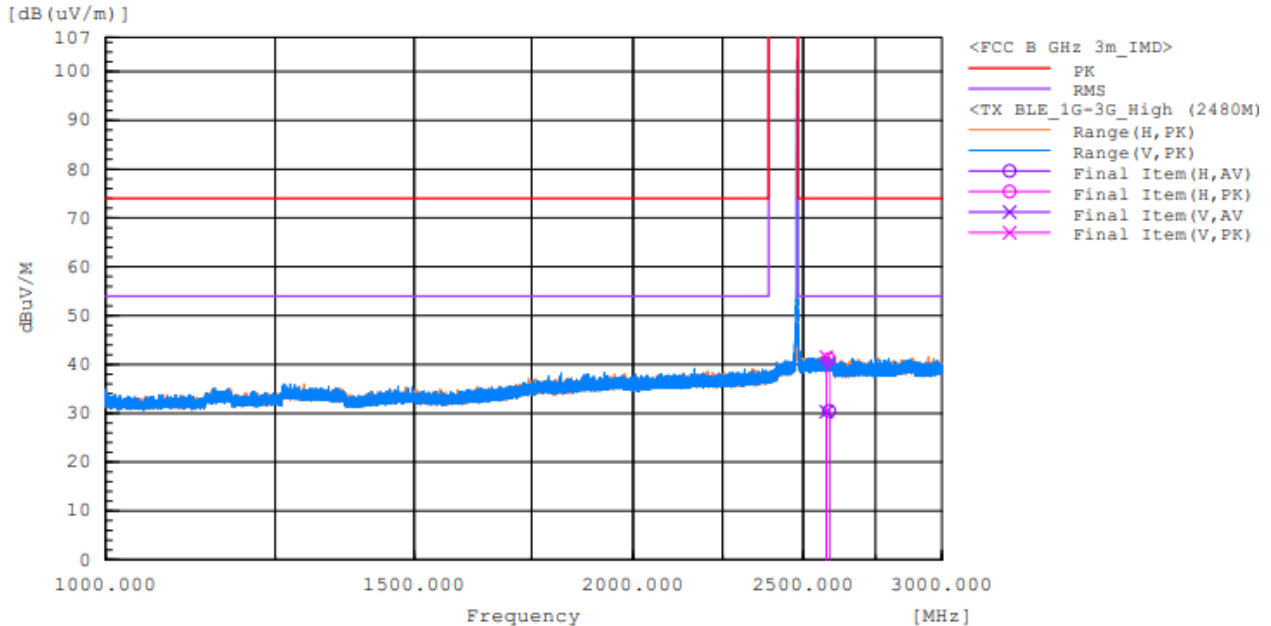
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■ TEST PLOTS

**Radiated Spurious Emission 30 MHz – 1 GHz : BLE + HF**



**Radiated Spurious Emission 1 GHz - 3 GHz : BLE + HF**

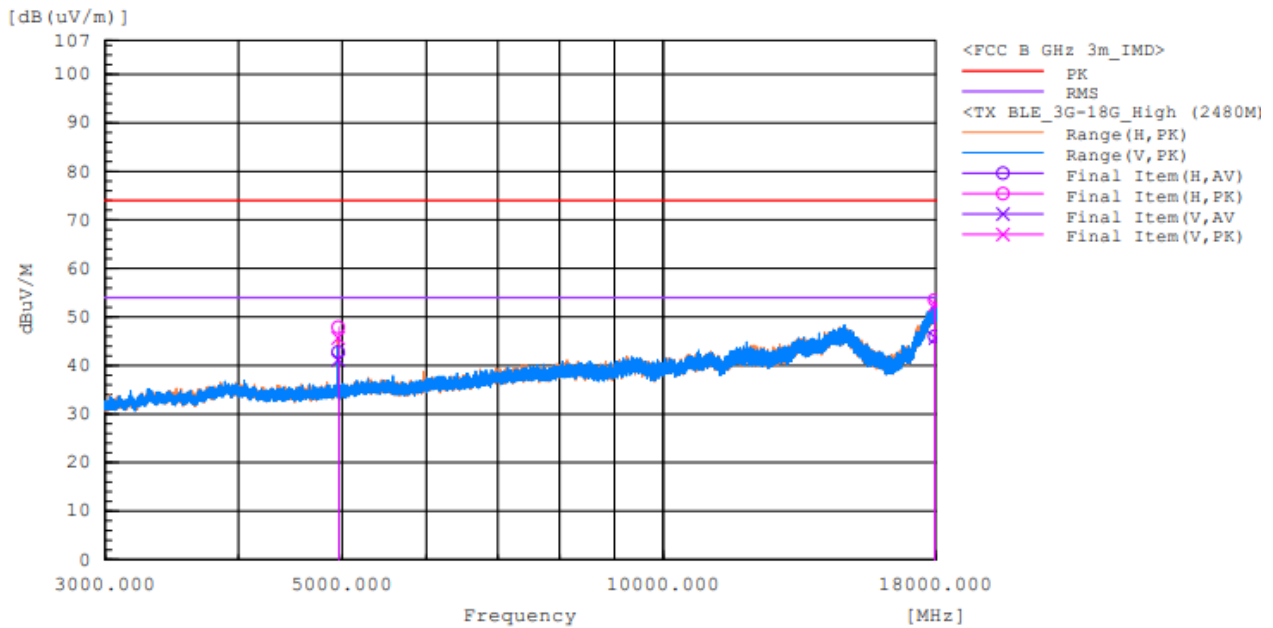


**Note:**

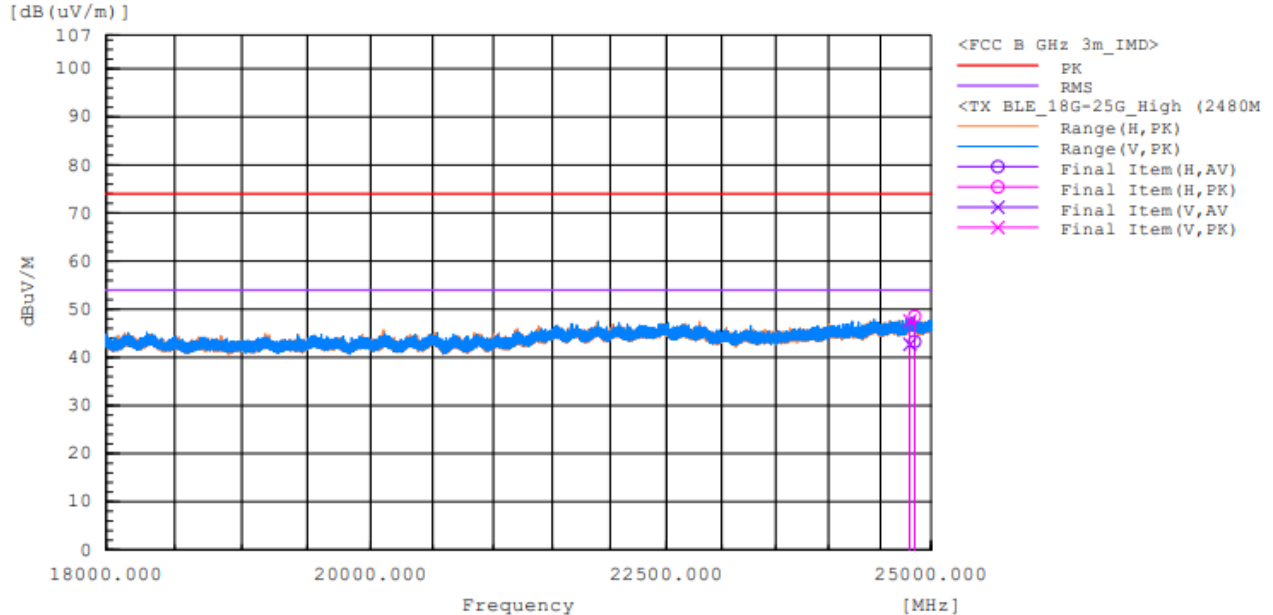
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■ TEST PLOTS

**Radiated Spurious Emission 3 GHz - 18 GHz : BLE + HF**



**Radiated Spurious Emission 18 GHz – 25 GHz**



**Note:**

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## 8. LIST OF TEST EQUIPMENT

No.	Instrument	Model No.	Calibration Due (mm/dd/yy)	Manufacture	Serial No.
<input checked="" type="checkbox"/>	Signal Analyzer (20 Hz ~ 40.0 GHz)	ESU40	12/03/2022	Rohde & Schwarz	100529
<input checked="" type="checkbox"/>	Signal Analyzer (1 Hz - 44 GHz)	ESW44	10/25/2022	Rohde & Schwarz	102015
<input type="checkbox"/>	Signal Analyzer (10 Hz ~ 26.5 GHz)	N9020A	11/04/2022	Keysight	MY52091291
<input type="checkbox"/>	Attenuator (20 dB, DC ~ 26.5 GHz)	CFADC262002	01/13/2023	CERNEX	-
<input type="checkbox"/>	Attenuator (10 dB, DC ~ 26.5 GHz)	CFADC261002	01/13/2023	CERNEX	-
<input checked="" type="checkbox"/>	Loop Antenna (0.009 ~ 30 MHz)	HLA 6121	09/15/2023	TESEQ	43964
<input checked="" type="checkbox"/>	BI-LOG Antenna (30 MHz ~ 1 GHz)	JB6	10/26/2022	Sunol	A071116
<input checked="" type="checkbox"/>	LNA (30 MHz ~ 1GHz)	8447D	07/26/2022	HP	2443A03587
<input checked="" type="checkbox"/>	Horn Antenna (1 GHz ~ 18 GHz)	DRH-118	10/21/2022	Sunol	A070516
<input checked="" type="checkbox"/>	LNA (1 GHz ~ 18 GHz)	PAM-118A	07/06/2022	Com-Power	18040074
<input checked="" type="checkbox"/>	Horn Antenna (18 GHz ~ 40 GHz)	DRH-1840	02/16/2022	Sunol	17121
<input checked="" type="checkbox"/>	LNA (18 GHz ~ 40 GHz)	CBL184050-45-01	02/04/2022	CERNEX, Inc.	27973
<input checked="" type="checkbox"/>	High Pass Filter	WHK10-2520-3000-18000-40EF	01/13/2023	Wainwright	9
<input type="checkbox"/>	EMI Test Receiver	ESR3	12/03/2022	Rohde & Schwarz	102363
<input type="checkbox"/>	LISN	ENV216	01/19/2023	Rohde & Schwarz	101349

**Note:**

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date

## APPENDIX A. TEST SETUP PHOTOS

*The setup photos are provided as a separate document*

## **APPENDIX B. PHOTOGRAPHS OF EUT**

### **B.1. EXTERNAL PHOTOS**

*The external photos are provided as a separate document*

### **B.2. INTERNAL PHOTOS**

*The internal photos are provided as a separate document*

***END OF TEST REPORT***