

# FCC Radio Test Report

**FCC ID: 2AG5OPB-711-B**

**Report No.** : BTL-FCCP-1-2007T023B  
**Equipment** : Pebblebee Found  
**Model Name** : PB-701-B  
**Brand Name** : Found  
**Applicant** : PB Inc.  
**Address** : PO Box 2962 Renton Washington United States 98056

**Radio Function** : Bluetooth Low Energy

**FCC Rule Part(s)** : FCC Part15, Subpart C (15.247)  
**Measurement** : ANSI C63.10-2013  
**Procedure(s)**

**Date of Receipt** : 2021/11/10  
**Date of Test** : 2021/11/10 ~ 2021/12/8  
**Issued Date** : 2021/12/16

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

**Prepared by** : Eric Lee  
Eric Lee, Engineer

**Approved by** : Jerry Chuang  
Jerry Chuang, Supervisor



**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299      Fax: +886-2-2657-3331      Web: [www.newbtl.com](http://www.newbtl.com)

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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**REVISION HISTORY**

Report No.	Version	Description	Issued Date
BTL-FCCP-1-2007T023	R00	Original Report.	2020/9/7
BTL-FCCP-1-2007T023	R01	Revised Typo.	2020/9/22
BTL-FCCP-1-2007T023B	R00	Change bluetooth chip and battery.	2021/12/16

## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

### FCC Part 15, Subpart C (15.247)

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	-----
15.205 15.209 15.247(d)	Radiated Emissions	APPENDIX B APPENDIX C	Pass	-----
15.247(a)(2)	Bandwidth	APPENDIX D	Pass	-----
15.247(b)(3)	Output Power	APPENDIX E	Pass	-----
15.247(e)	Power Spectral Density	APPENDIX F	Pass	-----
15.247(d)	Antenna conducted Spurious Emission	APPENDIX G	Pass	-----
15.203	Antenna Requirement	-----	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.

## 1.1 TEST FACILITY

The test facilities used to collect the test data in this report:

No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

The test sites and facilities are covered under FCC RN: 674415 and DN: TW0659.

- C05       CB08       CB11       CB15       CB16  
 SR06

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{cisp}$  requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
CB15	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

C. Conducted test :

Test Item	U,(dB)
Occupied Bandwidth	0.5334
Output power	0.3669
Power Spectral Density	0.6591
Conducted Spurious emissions	0.5416
Conducted Band edges	0.5348

### NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

## 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	24 °C, 57 %	AC 120V/60Hz	William Wei
Radiated emissions below 1 GHz	20 °C, 65 %	DC 5V	Eddie Lee
Radiated emissions above 1 GHz	20 °C, 65 %	DC 5V	Eddie Lee
Bandwidth	25.1 °C, 51 %	DC 5V	Paul Shen
Output Power	25.1 °C, 51 %	DC 5V	Paul Shen
Power Spectral Density	25.1 °C, 51 %	DC 5V	Paul Shen
Antenna conducted Spurious Emission	25.1 °C, 51 %	DC 5V	Paul Shen

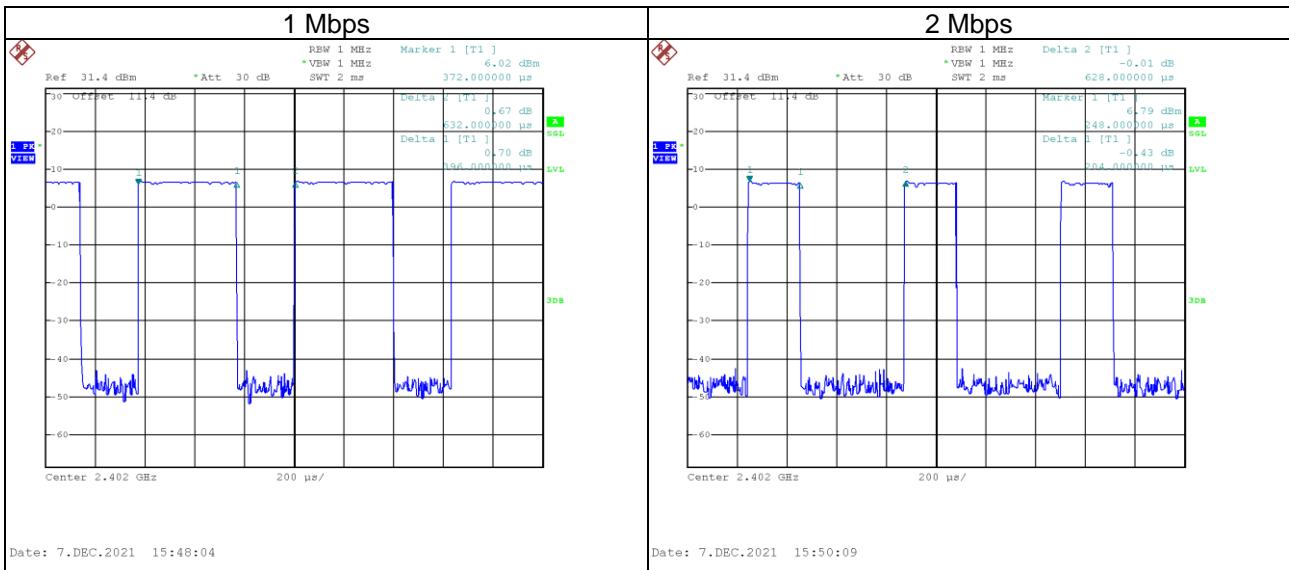
#### 1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test Software	nRF_DTM 1.0.0			
Modulation Mode	2402 MHz	2440 MHz	2480 MHz	Data Rate
BLE	8	8	8	1 Mbps
BLE	8	8	8	2 Mbps

#### 1.5 DUTY CYCLE

If duty cycle is  $\geq$  98 %, duty factor is not required.

If duty cycle is  $<$  98 %, duty factor shall be considered.



Remark	Delta 1			Delta 2	On Time/Period	10 log(1/Duty Cycle)
Mode	ON (ms)	Numbers (ON)	On Time (B) (ms)	Period (ON+OFF) (ms)	Duty Cycle (%)	Duty Factor (dB)
1 Mbps	0.396	1	0.396	0.632	62.66%	2.03
2 Mbps	0.204	1	0.204	0.628	32.48%	4.88

## 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

Equipment	Pebblebee Found
Model Name	PB-701-B
Brand Name	Found
Model Difference	N/A
Power Source	#1 DC Voltage supplied from USB port. #2 Battery supplied
Power Rating	#1 DC 5V 1A #2 3.7V, 770mAh 2.849Wh
Products Covered	Rechargeable Li-ion polymer battery / LIP603033
Hardware Version	PB_GO_DVT
Software Version	Firmware Ver: N.3.1.7
Frequency Range	2400 MHz ~ 2483.5 MHz
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Technology	GFSK
Transfer Rate	1, 2 Mbps
Output Power Max.	1 Mbps: 7.93 dBm (0.0062 W) 2 Mbps: 7.78 dBm (0.0060 W)
Test Model	PB-701-B
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

- (1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- (2) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

## (3) Table for Filed Antenna:

Ant.	Brand	Part number	Antenna Type	Connector	Gain (dBi)
J2	WIESON	ARY197-1757-003-00	PIFA	N/A	-2.57

(4) This is a supplement report of BTL-FCCP-1-2007T023 report. The differences compared with original report are change bluetooth chip and battery.

After evaluated, the changes with respect to the original one, all tests need to re-test.

## 2.2 TEST MODES

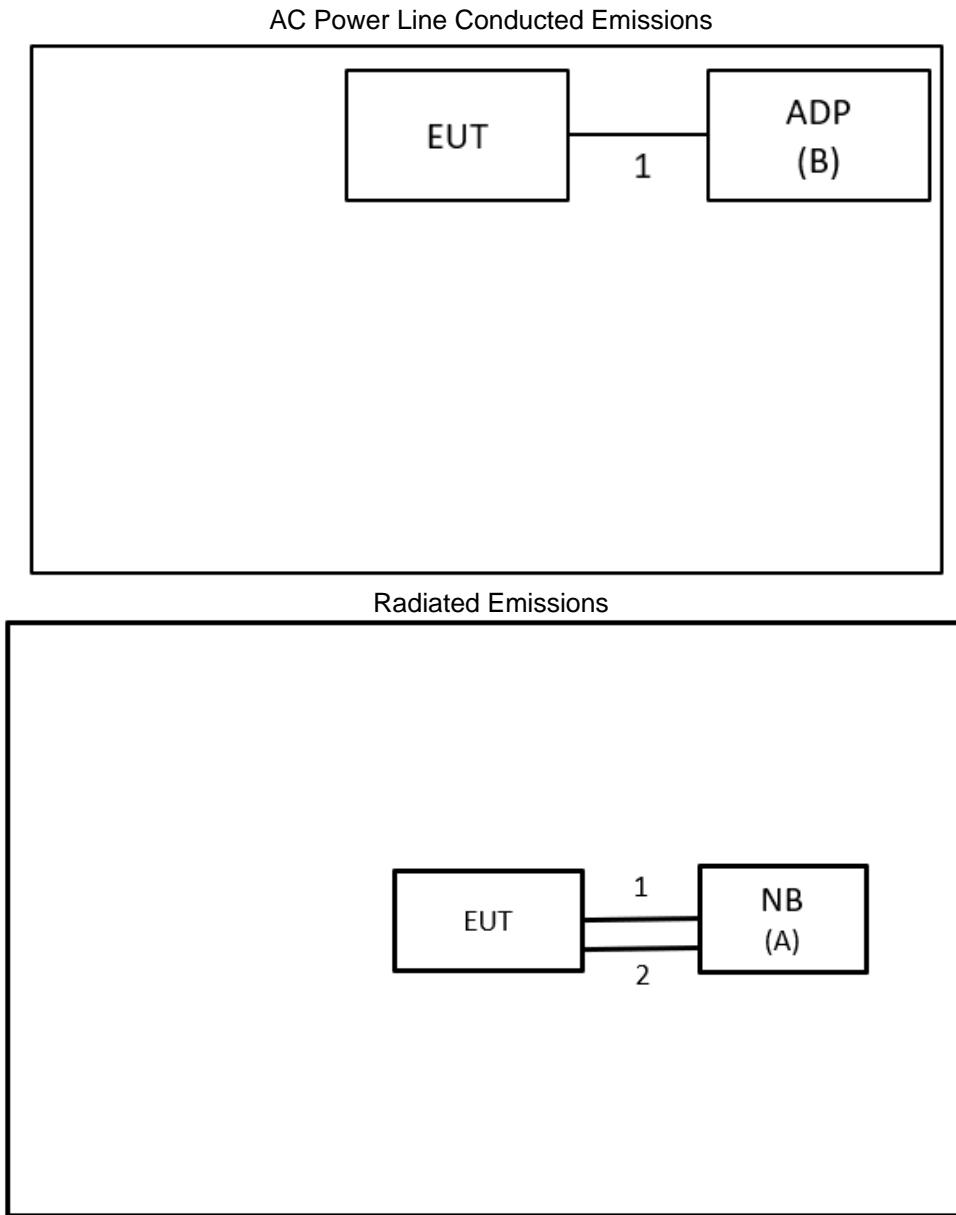
Test Items	Test mode	Channel	Note
AC power line conducted emissions	Normal/Idle	-	-
Transmitter Radiated Emissions (below 1GHz)	BLE5.0 (1 Mbps)	00	-
Transmitter Radiated Emissions (above 1GHz)	BLE5.0 (1, 2 Mbps)	00/39	Bandedge
	BLE5.0 (1, 2 Mbps)	00/19/39	Harmonic
Bandwidth	BLE 1, 2 Mbps	00/19/39	-
Output Power	BLE 1, 2 Mbps	00/19/39	-
Power Spectral Density	BLE 1, 2 Mbps	00/19/39	-
Antenna conducted Spurious Emission	BLE 1, 2 Mbps	00/19/39	-

**NOTE:**

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) For radiated emission band edge test, both Vertical and Horizontal are evaluated, but only the worst case (Horizontal) is recorded.
- (3) All X, Y and Z axes are evaluated, but only the worst case (X axis) is recorded.
- (4) There were no emissions found below 30 MHz within 20 dB of the limit.

### 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



### 2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
A	NB	HP	TPN-I119	NA	Furnished by test lab.
B	Adapter	Apple	A1385	NA	Furnished by test lab.

Item	Cable Type	Shielded	Ferrite Core	Length	Remarks
1	USB Cable	NA	NA	0.15m	Supplied by test requester
2	Fixture Cable to USB	NA	NA	0.2m	Supplied by test requester

### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.50 - 5.0	56	46
5.0 - 30.0	60	50

**NOTE:**

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value – Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	=	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).  
All other support equipment were powered from an additional LISN(s).  
The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.  
The end of the cable will be terminated, using the correct terminating impedance.  
The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item - EUT TEST PHOTO.

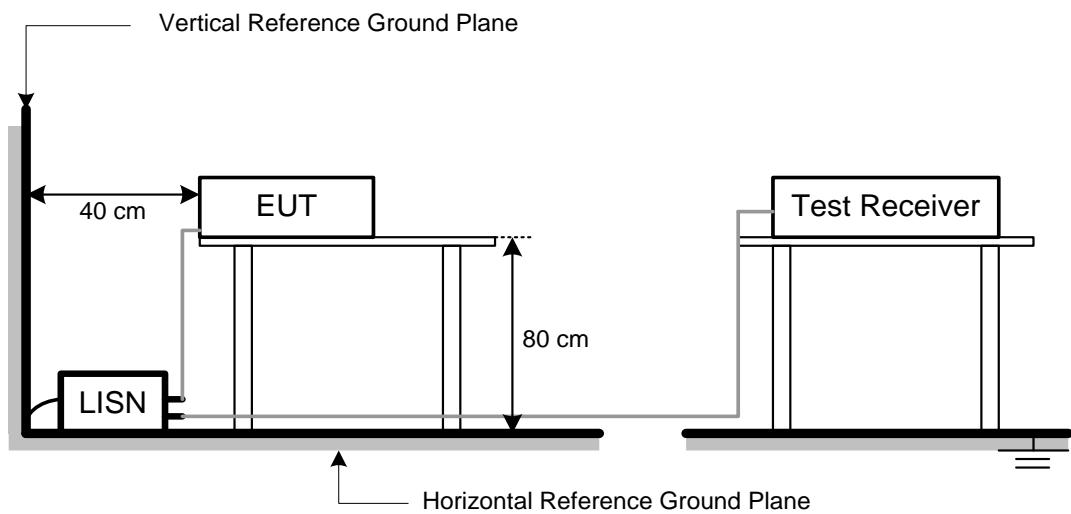
**NOTE:**

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.  
BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 TEST RESULT

Please refer to the APPENDIX A.

## 4 RADIATED EMISSIONS TEST

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

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
960~1000	500	3

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Radiated Emissions (dB <sub>UV</sub> /m)		Measurement Distance (meters)
	Peak	Average	
Above 1000	74	54	3

#### NOTE:

- (1) The limit for radiated test was performed according to FCC Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dB<sub>UV</sub>/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
41.91	+	-8.36	=	33.55

Measurement Value		Limit Value		Margin Level
33.55	-	43.50	=	-9.95

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 1/T for Average

Spectrum Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

#### 4.2 TEST PROCEDURE

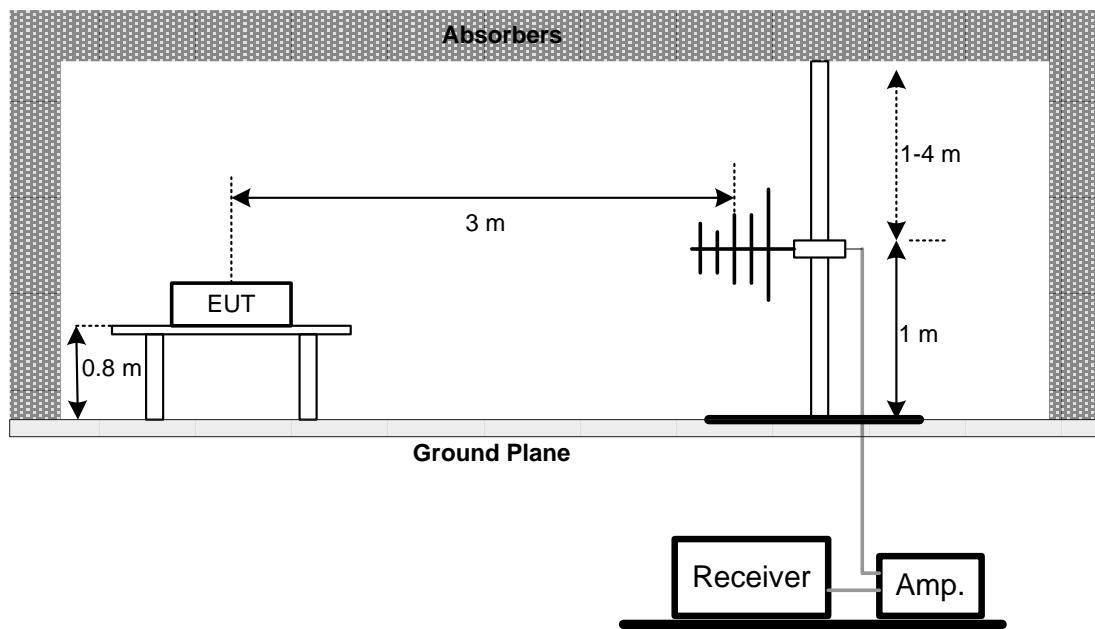
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

#### 4.3 DEVIATION FROM TEST STANDARD

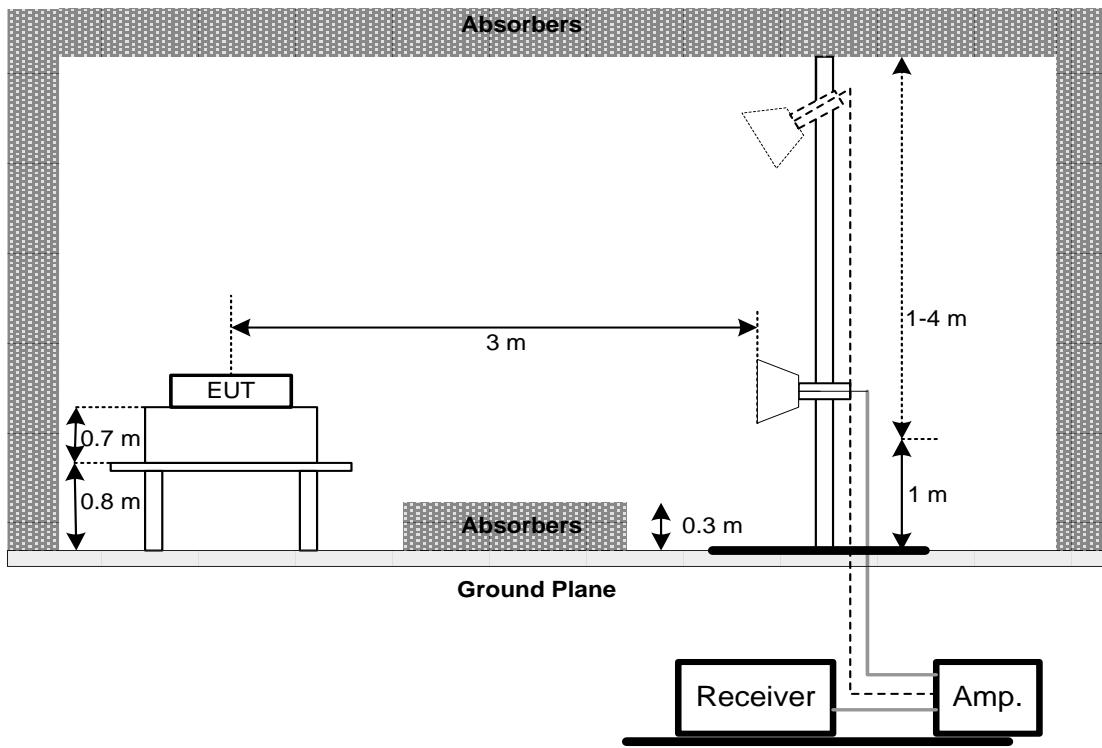
No deviation.

#### 4.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz



**4.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULT – 30 MHZ TO 1 GHZ**

Please refer to the APPENDIX B.

**4.7 TEST RESULT – ABOVE 1 GHZ**

Please refer to the APPENDIX C.

**NOTE:**

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5 BANDWIDTH TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

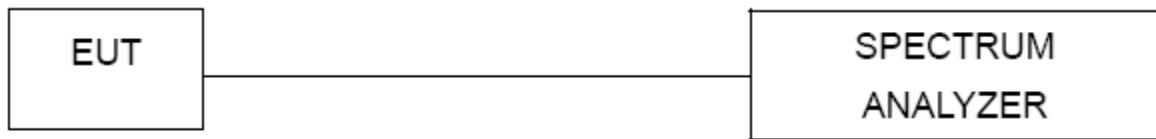
### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 5.6 TEST RESULTS

Please refer to the APPENDIX D.

## 6 OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS

### 6.2 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 6.6 TEST RESULTS

Please refer to the APPENDIX E.

## 7 POWER SPECTRAL DENSITY TEST

### 7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 7.6 TEST RESULTS

Please refer to the APPENDIX F.

## 8 ANTENNA CONDUCTED SPURIOUS EMISSION

### 8.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

### 8.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

### 8.6 TEST RESULTS

Please refer to the APPENDIX G.

## 9 LIST OF MEASURING EQUIPMENTS

AC power line conducted emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101339	2021/3/10	2022/3/9
2	Test Cable	EMCI	EMCCFD300-BM-BMR-6000	170714	2021/6/7	2022/6/6
3	EMI Test Receiver	R&S	ESR 7	101433	2021/11/24	2022/11/23
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645B	980222	2021/4/8	2022/4/7
3	Preamplifier	EMCI	EMC001340	980555	2021/4/8	2022/4/7
4	Test Cable	EMCI	EMC104-SM-1000	180809	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC104-SM-SM-3000	151205	2021/4/8	2022/4/7
6	Test Cable	EMCI	EMC-SM-SM-7000	180408	2021/4/8	2022/4/7
7	MXE EMI Receiver	Agilent	N9038A	MY56400087	2021/5/27	2022/5/26
8	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24
9	Loop Ant	Electro-Metrics	EMCI-LPA600	274	2021/6/1	2022/5/31
10	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
11	Horn Ant	Schwarzbeck	BBHA 9170	340	2021/7/9	2022/7/8
12	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
13	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
14	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

Bandwidth						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2021/3/5	2022/3/4

Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2021/3/5	2022/3/4
2	Power Meter	Keysight	8990B	MY51000517	2021/3/15	2022/3/14
3	Power Sensor	Keysight	N1923A	MY58310005	2021/3/17	2022/3/16

<b>Power Spectral Density</b>						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2021/3/5	2022/3/4

<b>Antenna conducted Spurious Emission</b>						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP38	101139	2021/3/5	2022/3/4

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.  
All calibration period of equipment list is one year.

## **10 EUT TEST PHOTO**

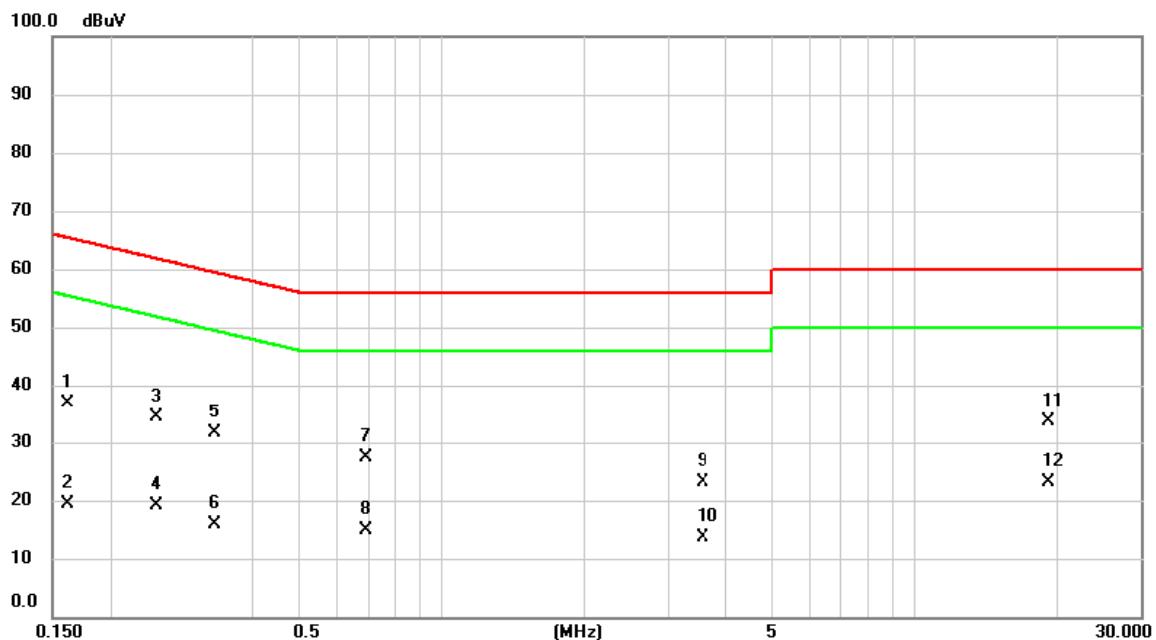
Please refer to document Appendix No.: TP-2007T023B-FCCP-1 (APPENDIX-TEST PHOTOS).

## **11 EUT PHOTOS**

Please refer to document Appendix No.: EP-2007T023B-2 (APPENDIX-EUT PHOTOS).

## APPENDIX A AC POWER LINE CONDUCTED EMISSIONS

Test Mode	Normal	Tested Date	2021/12/8
Test Voltage	AC 120V/60Hz	Phase	Line

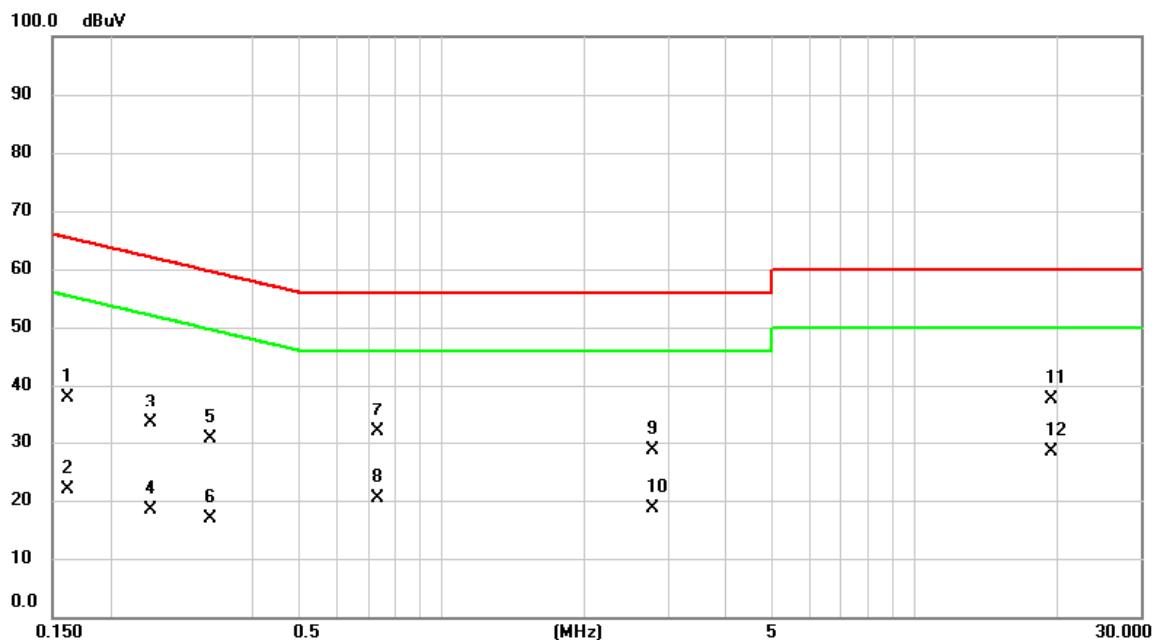


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
MHz		dBuV	dB	dBuV	dBuV	dB			
1	0.1612	27.10	9.68	36.78	65.40	-28.62	QP		
2	0.1612	9.60	9.68	19.28	55.40	-36.12	AVG		
3	0.2490	24.74	9.68	34.42	61.79	-27.37	QP		
4	0.2490	9.41	9.68	19.09	51.79	-32.70	AVG		
5	0.3322	22.05	9.68	31.73	59.40	-27.67	QP		
6	0.3322	6.21	9.68	15.89	49.40	-33.51	AVG		
7	0.6922	17.64	9.68	27.32	56.00	-28.68	QP		
8	0.6922	5.30	9.68	14.98	46.00	-31.02	AVG		
9	3.5745	13.31	9.78	23.09	56.00	-32.91	QP		
10	3.5745	3.85	9.78	13.63	46.00	-32.37	AVG		
11 *	19.1084	23.75	9.96	33.71	60.00	-26.29	QP		
12	19.1084	13.16	9.96	23.12	50.00	-26.88	AVG		

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Normal	Tested Date	2021/12/8
Test Voltage	AC 120V/60Hz	Phase	Neutral

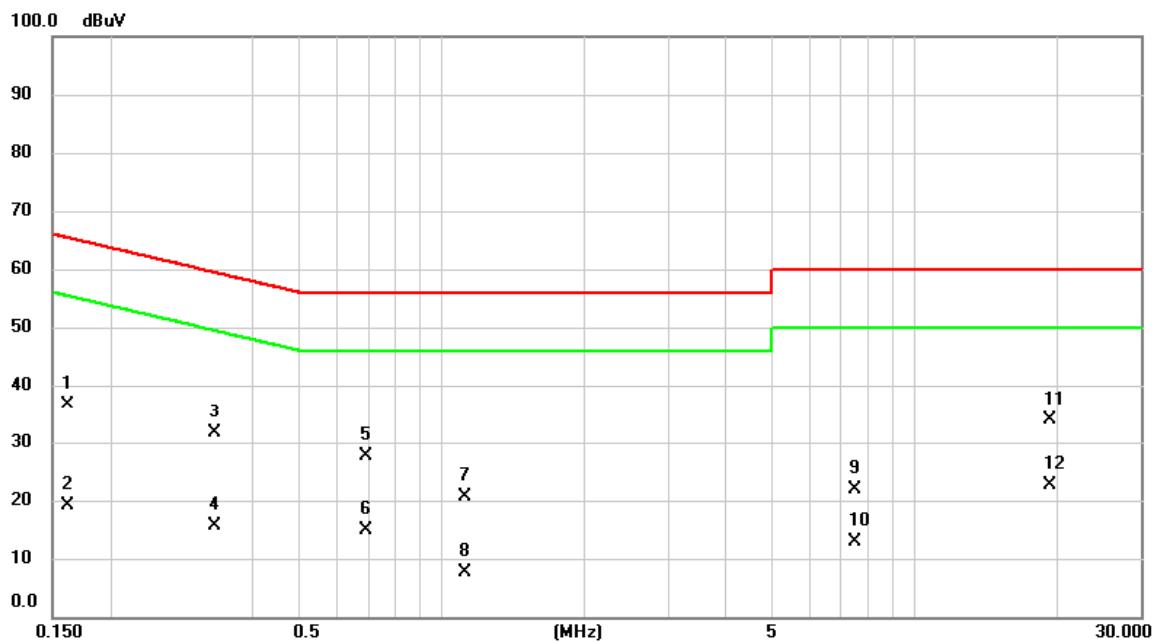


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
MHz		dBuV	dB	dBuV	dBuV	dB			
1	0.1613	28.23	9.68	37.91	65.40	-27.49	QP		
2	0.1613	12.10	9.68	21.78	55.40	-33.62	AVG		
3	0.2423	23.60	9.68	33.28	62.02	-28.74	QP		
4	0.2423	8.62	9.68	18.30	52.02	-33.72	AVG		
5	0.3255	21.03	9.68	30.71	59.57	-28.86	QP		
6	0.3255	7.18	9.68	16.86	49.57	-32.71	AVG		
7	0.7304	22.25	9.68	31.93	56.00	-24.07	QP		
8	0.7304	10.78	9.68	20.46	46.00	-25.54	AVG		
9	2.7758	18.84	9.76	28.60	56.00	-27.40	QP		
10	2.7758	8.78	9.76	18.54	46.00	-27.46	AVG		
11	19.4662	27.77	9.96	37.73	60.00	-22.27	QP		
12 *	19.4662	18.39	9.96	28.35	50.00	-21.65	AVG		

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2021/12/8
Test Voltage	AC 120V/60Hz	Phase	Line

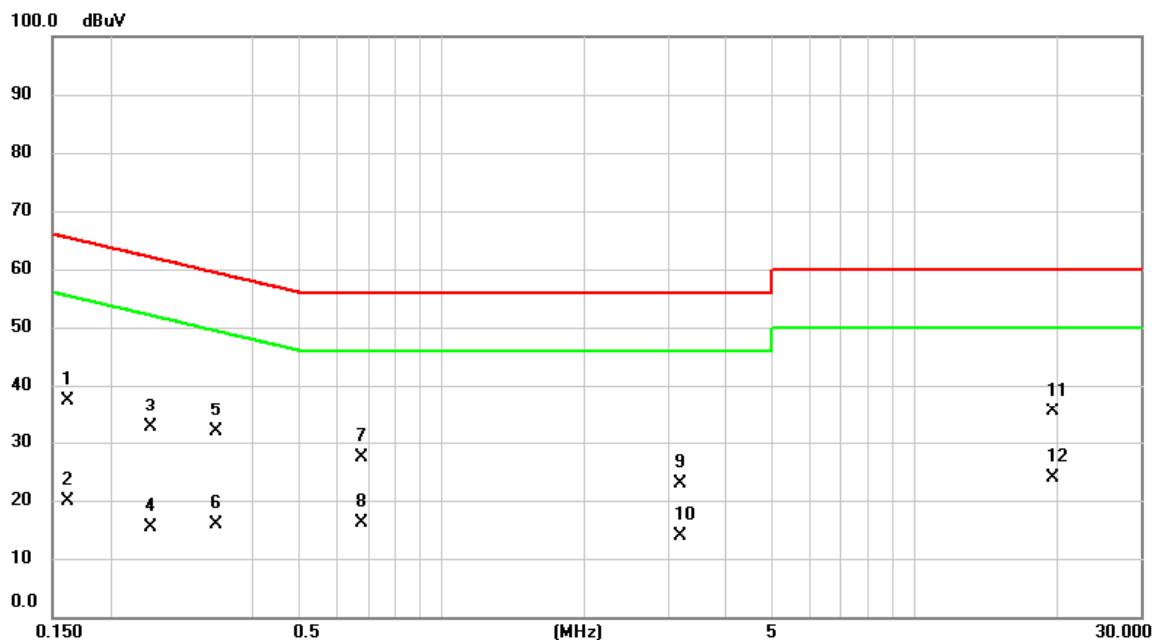


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
MHz		dBuV	dB	dBuV	dBuV	dB			
1	0.1613	26.88	9.68	36.56	65.40	-28.84	QP		
2	0.1613	9.41	9.68	19.09	55.40	-36.31	AVG		
3	0.3322	21.99	9.68	31.67	59.40	-27.73	QP		
4	0.3322	6.03	9.68	15.71	49.40	-33.69	AVG		
5	0.6922	17.94	9.68	27.62	56.00	-28.38	QP		
6	0.6922	5.25	9.68	14.93	46.00	-31.07	AVG		
7	1.1220	10.88	9.69	20.57	56.00	-35.43	QP		
8	1.1220	-2.14	9.69	7.55	46.00	-38.45	AVG		
9	7.4783	11.99	9.87	21.86	60.00	-38.14	QP		
10	7.4783	3.08	9.87	12.95	50.00	-37.05	AVG		
11 *	19.2705	23.93	9.96	33.89	60.00	-26.11	QP		
12	19.2705	12.79	9.96	22.75	50.00	-27.25	AVG		

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	Idle	Tested Date	2021/12/8
Test Voltage	AC 120V/60Hz	Phase	Neutral



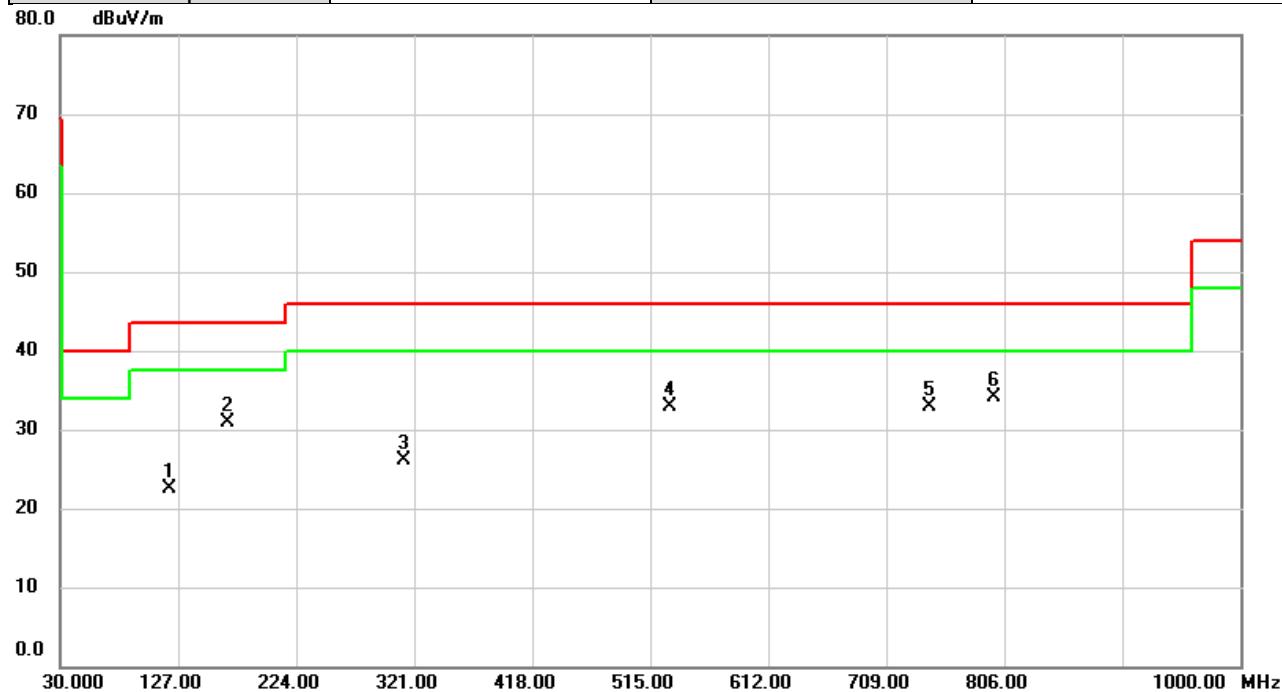
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
MHz		dBuV	dB	dBuV	dBuV	dB			
1		0.1613	27.73	9.68	37.41	65.40	-27.99	QP	
2		0.1613	10.22	9.68	19.90	55.40	-35.50	AVG	
3		0.2423	23.02	9.68	32.70	62.02	-29.32	QP	
4		0.2423	5.77	9.68	15.45	52.02	-36.57	AVG	
5		0.3345	22.24	9.68	31.92	59.34	-27.42	QP	
6		0.3345	6.16	9.68	15.84	49.34	-33.50	AVG	
7		0.6787	17.63	9.68	27.31	56.00	-28.69	QP	
8		0.6787	6.47	9.68	16.15	46.00	-29.85	AVG	
9		3.1943	13.15	9.76	22.91	56.00	-33.09	QP	
10		3.1943	4.02	9.76	13.78	46.00	-32.22	AVG	
11 *		19.5158	25.33	9.96	35.29	60.00	-24.71	QP	
12		19.5158	13.82	9.96	23.78	50.00	-26.22	AVG	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

**APPENDIX B RADIATED EMISSIONS - 30 MHZ TO 1 GHZ**

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Vertical
Temp	20°C	Hum.	65%

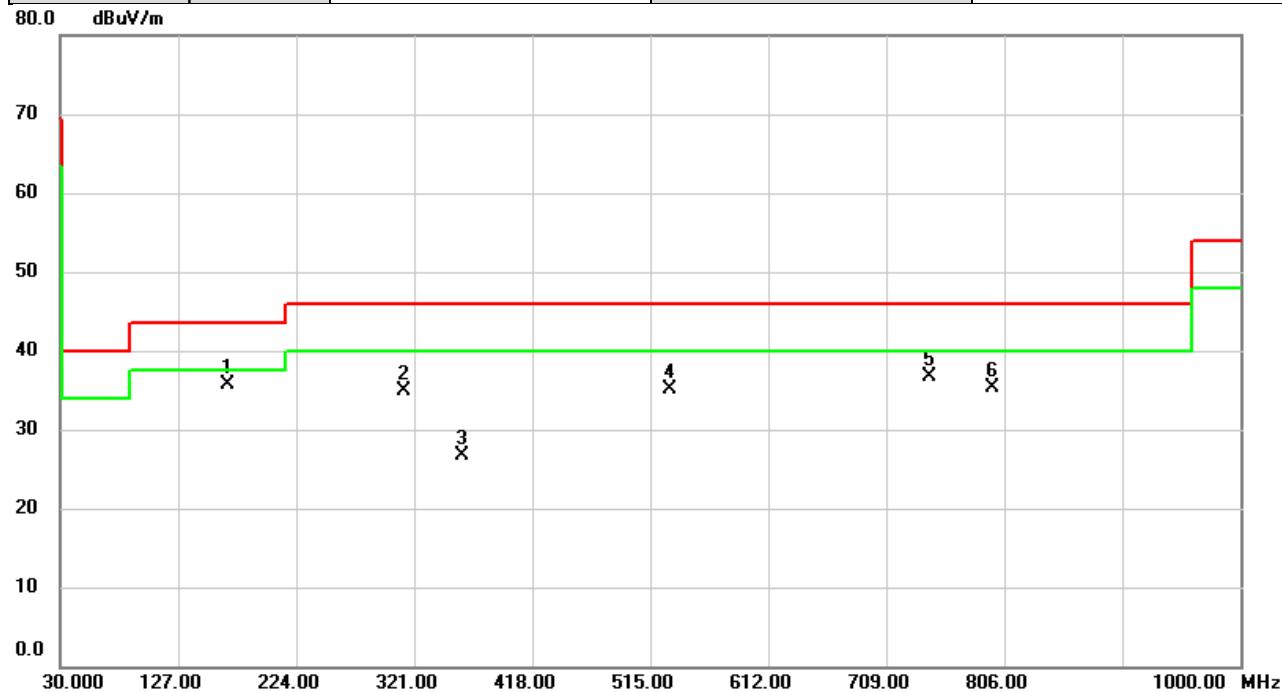


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		120.0160	33.44	-10.92	22.52	43.50	-20.98	peak	
2		167.9987	40.25	-9.32	30.93	43.50	-12.57	peak	
3		312.0113	34.21	-8.01	26.20	46.00	-19.80	peak	
4		531.0373	36.03	-3.03	33.00	46.00	-13.00	peak	
5		744.0170	31.51	1.30	32.81	46.00	-13.19	peak	
6	*	797.5933	32.09	1.92	34.01	46.00	-11.99	peak	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%



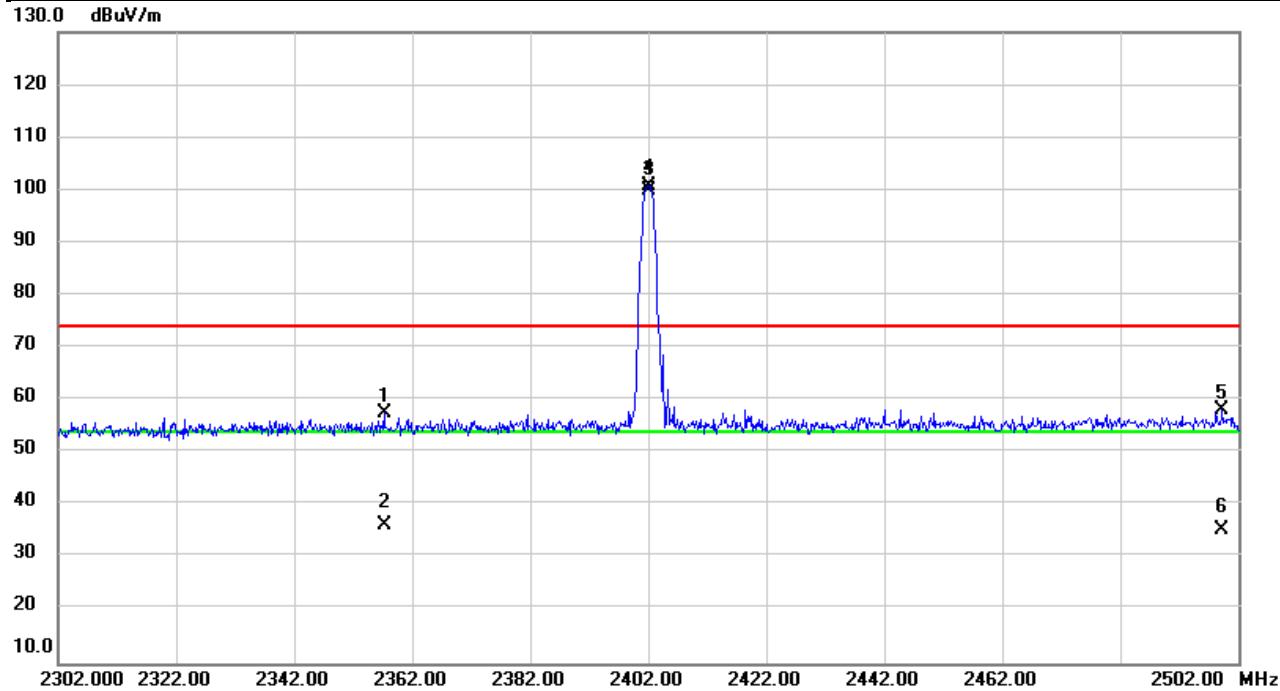
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	167.9986	45.10	-9.32	35.78	43.50	-7.72	peak	
2		312.0113	42.88	-8.01	34.87	46.00	-11.13	peak	
3		360.0263	33.76	-7.00	26.76	46.00	-19.24	peak	
4		531.5870	38.07	-3.02	35.05	46.00	-10.95	peak	
5		744.0170	35.43	1.30	36.73	46.00	-9.27	peak	
6		796.5586	33.30	1.91	35.21	46.00	-10.79	peak	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

**APPENDIX C RADIATED EMISSIONS - ABOVE 1 GHZ**

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

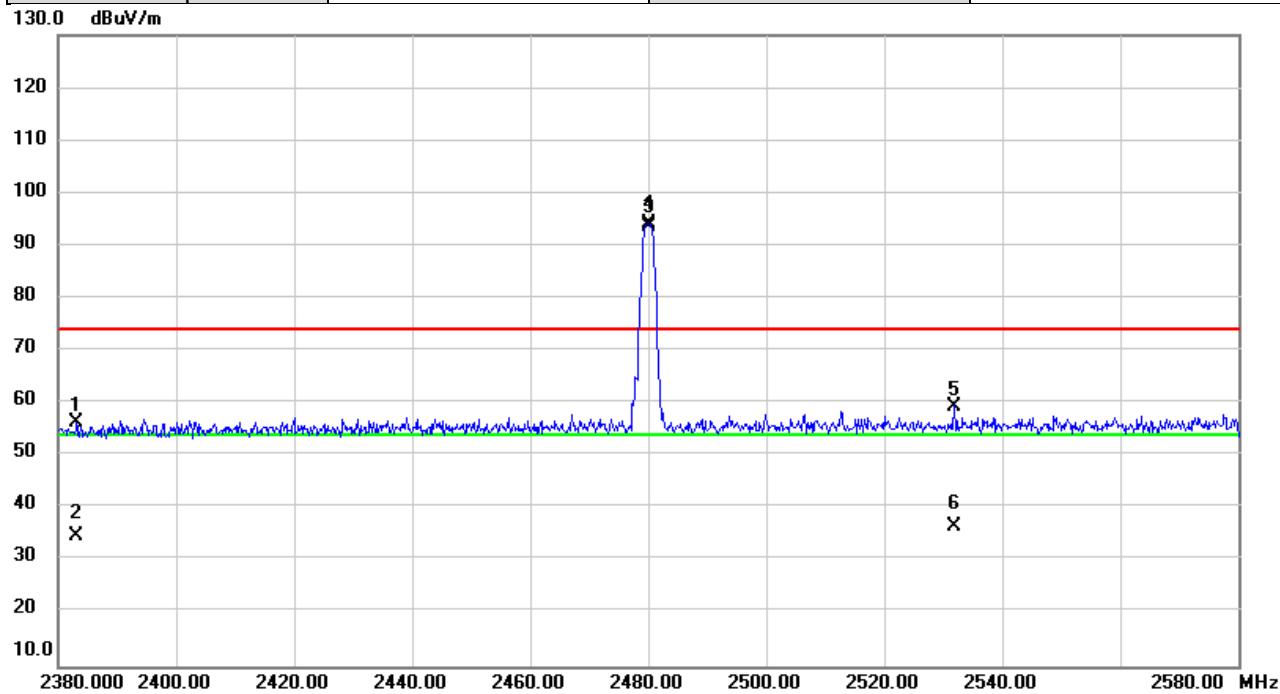


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2357.320	26.30	31.11	57.41	74.00	-16.59	peak
2		2357.320	5.20	31.11	36.31	54.00	-17.69	AVG
3	X	2402.000	69.47	31.26	100.73	74.00	26.73	peak NoLimit
4	*	2402.000	68.56	31.26	99.82	54.00	45.82	AVG NoLimit
5		2499.213	26.52	31.57	58.09	74.00	-15.91	peak
6		2499.213	3.84	31.57	35.41	54.00	-18.59	AVG

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2480MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

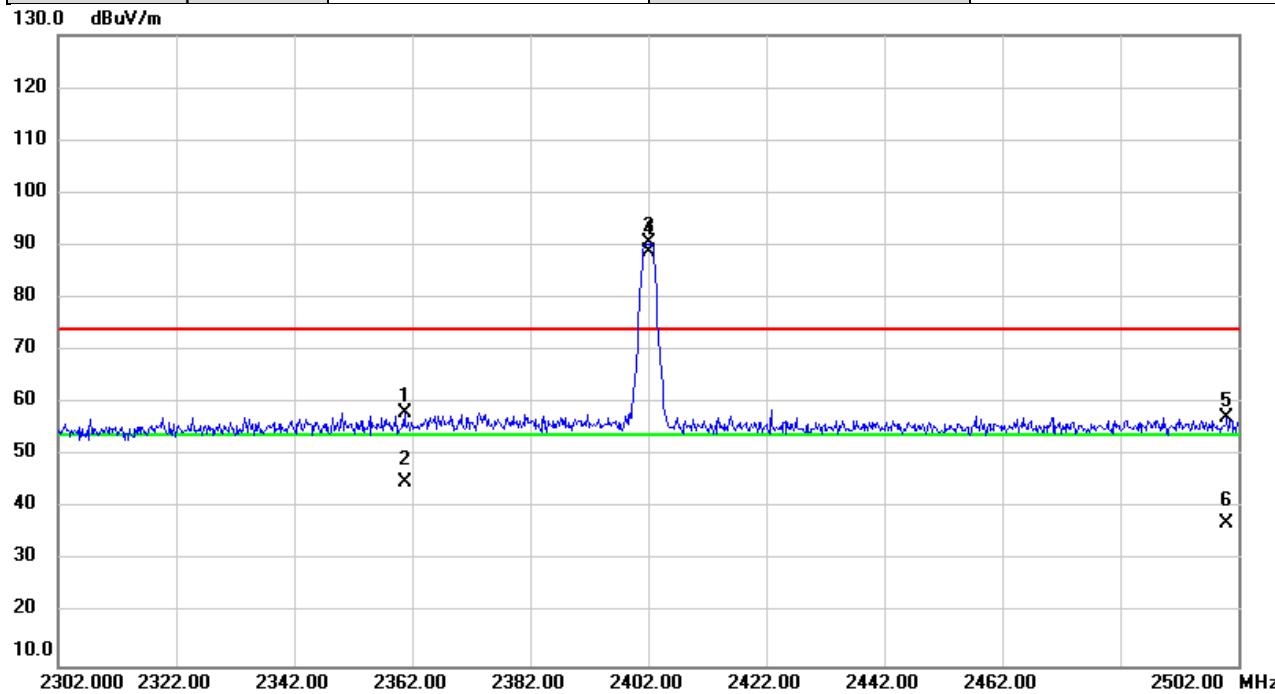


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2383.133	25.22	31.19	56.41	74.00	-17.59	peak
2		2383.133	3.65	31.19	34.84	54.00	-19.16	AVG
3	X	2480.000	62.78	31.51	94.29	74.00	20.29	peak NoLimit
4	*	2480.000	62.18	31.51	93.69	54.00	39.69	AVG NoLimit
5		2531.893	27.84	31.66	59.50	74.00	-14.50	peak
6		2531.893	4.94	31.66	36.60	54.00	-17.40	AVG

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

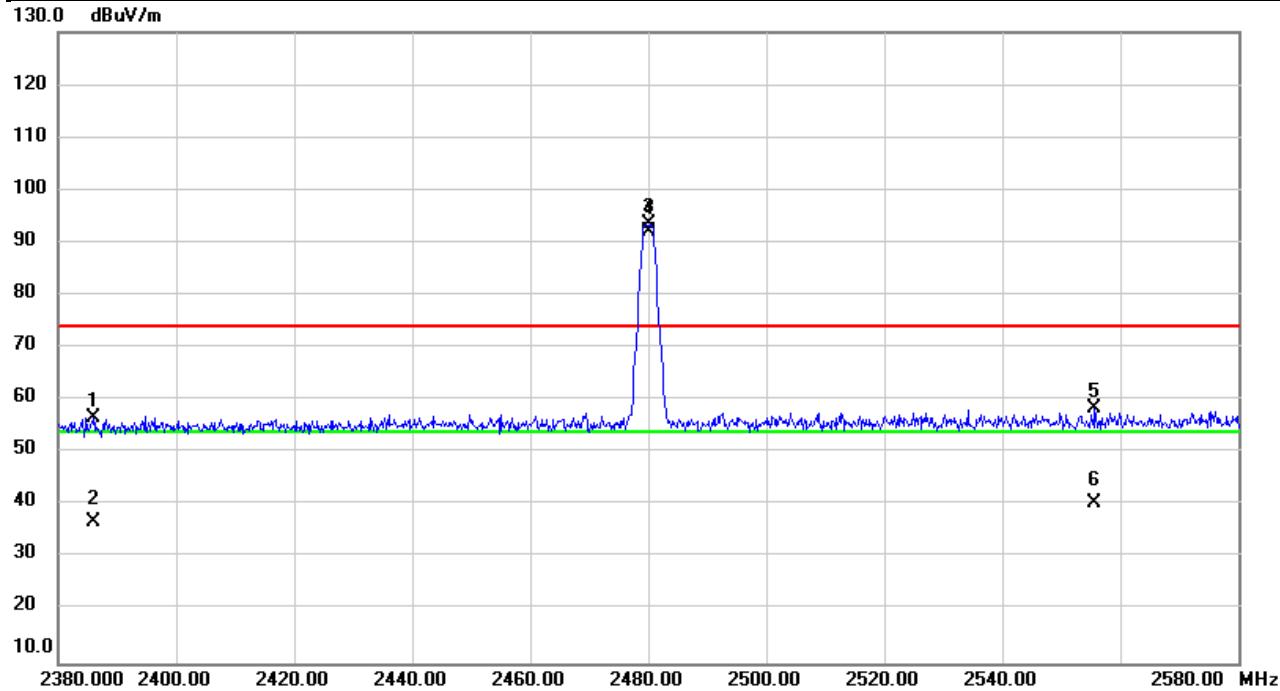


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2360.740	27.14	31.12	58.26	74.00	-15.74	peak	
2		2360.740	13.97	31.12	45.09	54.00	-8.91	AVG	
3	X	2402.000	59.20	31.26	90.46	74.00	16.46	peak	NoLimit
4	*	2402.000	57.43	31.26	88.69	54.00	34.69	AVG	NoLimit
5		2500.027	25.77	31.57	57.34	74.00	-16.66	peak	
6		2500.027	5.71	31.57	37.28	54.00	-16.72	AVG	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2480MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

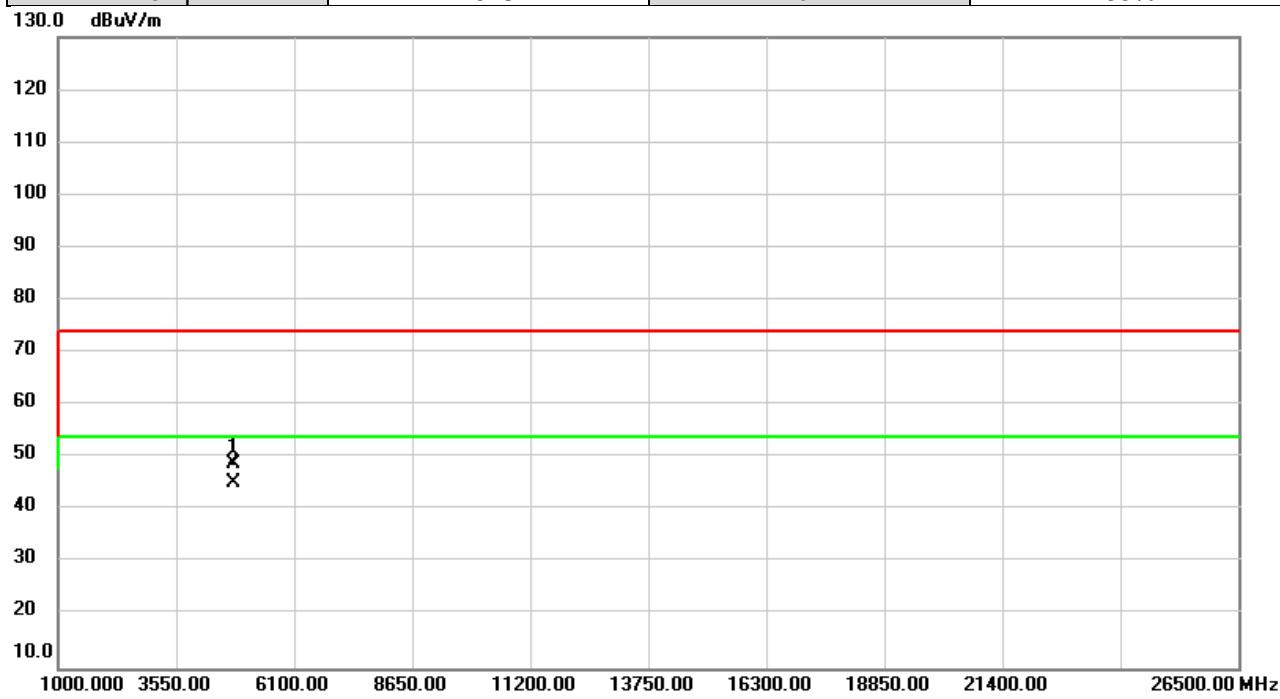


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2385.953	25.47	31.19	56.66	74.00	-17.34	peak	
2		2385.953	5.55	31.19	36.74	54.00	-17.26	AVG	
3	X	2480.000	62.00	31.51	93.51	74.00	19.51	peak	NoLimit
4	*	2480.000	60.41	31.51	91.92	54.00	37.92	AVG	NoLimit
5		2555.680	26.84	31.73	58.57	74.00	-15.43	peak	
6		2555.680	8.65	31.73	40.38	54.00	-13.62	AVG	

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Vertical
Temp	20°C	Hum.	65%

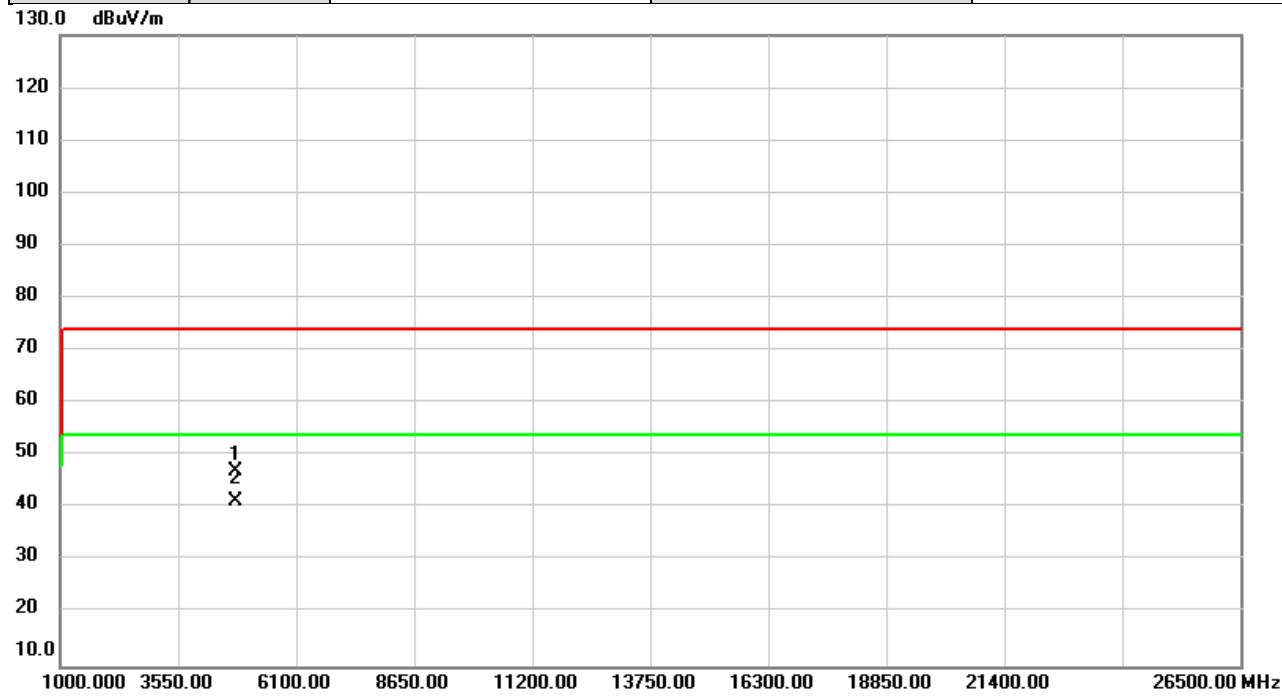


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dB	Limit dBuV/m	Over dB	Detector	Comment
1		4804.000	58.71	-9.84	48.87	74.00	-25.13	peak	
2	*	4804.000	54.95	-9.84	45.11	54.00	-8.89	AVG	

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

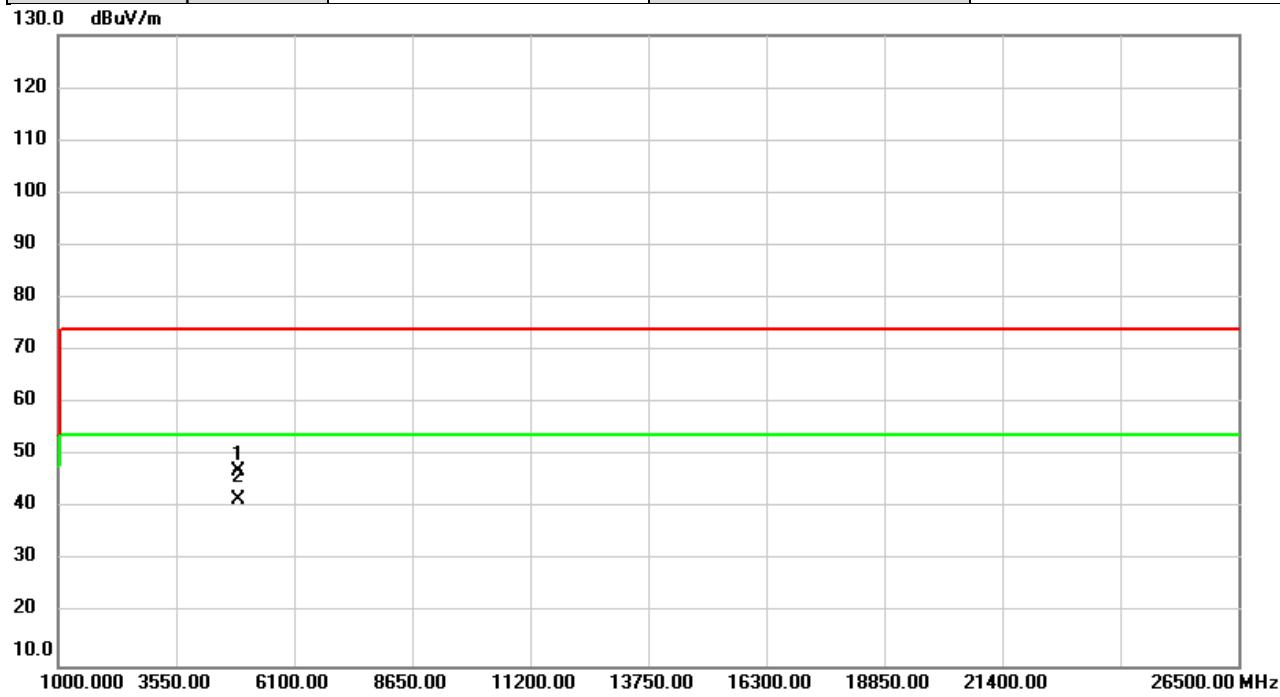


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4804.000	56.79	-9.84	46.95	74.00	-27.05	peak
2	*	4804.000	51.31	-9.84	41.47	54.00	-12.53	AVG

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2440MHz	Polarization	Vertical
Temp	20°C	Hum.	65%

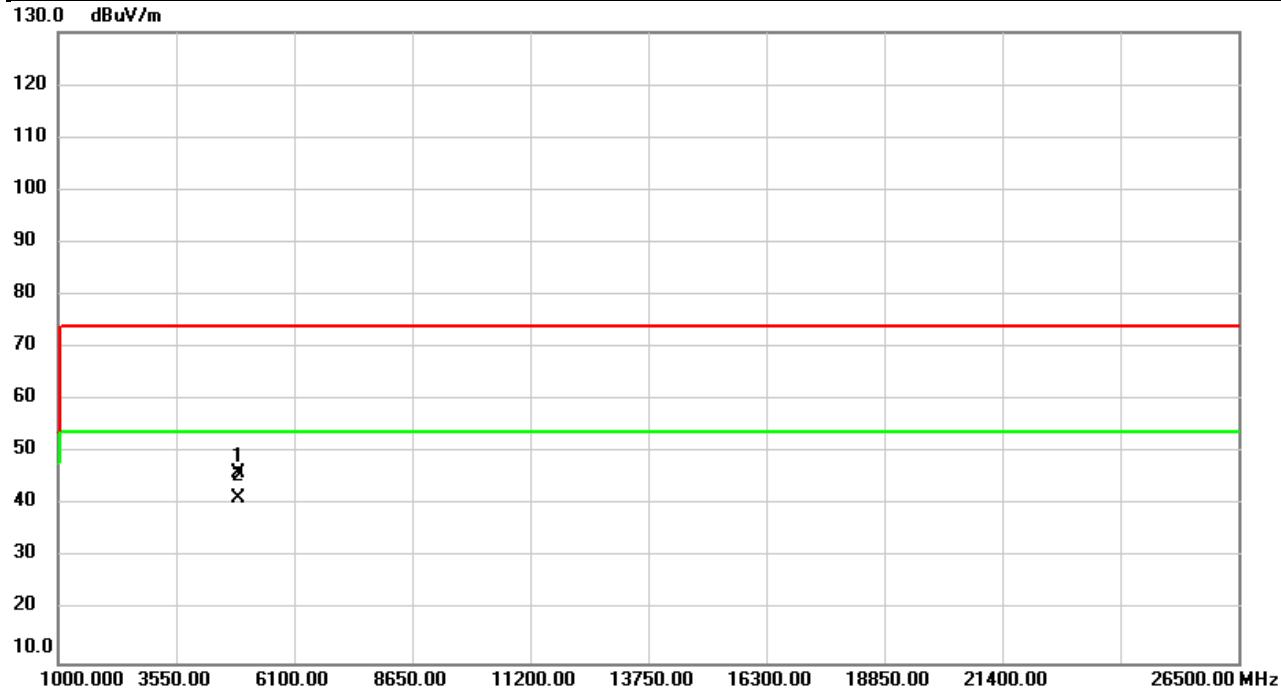


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4880.000	56.80	-9.77	47.03	74.00	-26.97	peak
2	*	4880.000	51.57	-9.77	41.80	54.00	-12.20	AVG

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2440MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

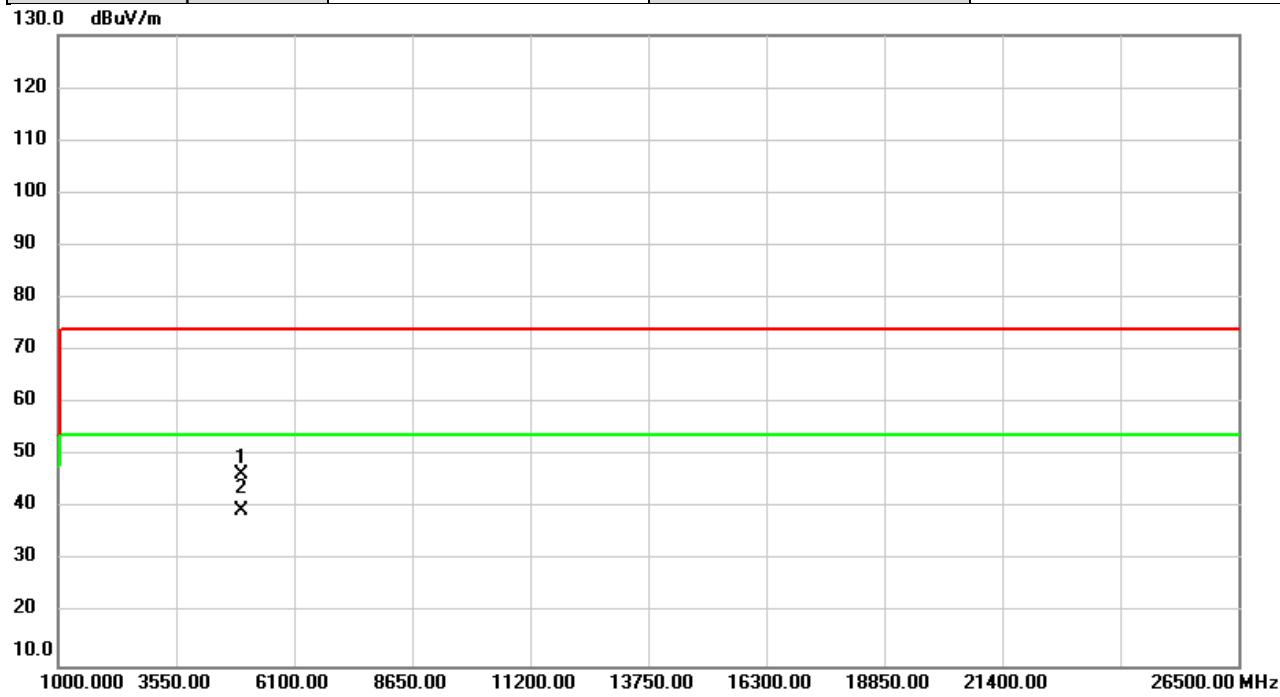


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
							MHz	dBuV	dB	dBuV/m	dB
1		4880.000	56.04	-9.77	46.27	74.00	-27.73		peak		
2	*	4880.000	51.21	-9.77	41.44	54.00	-12.56		AVG		

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
  - (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2480MHz	Polarization	Vertical
Temp	20°C	Hum.	65%

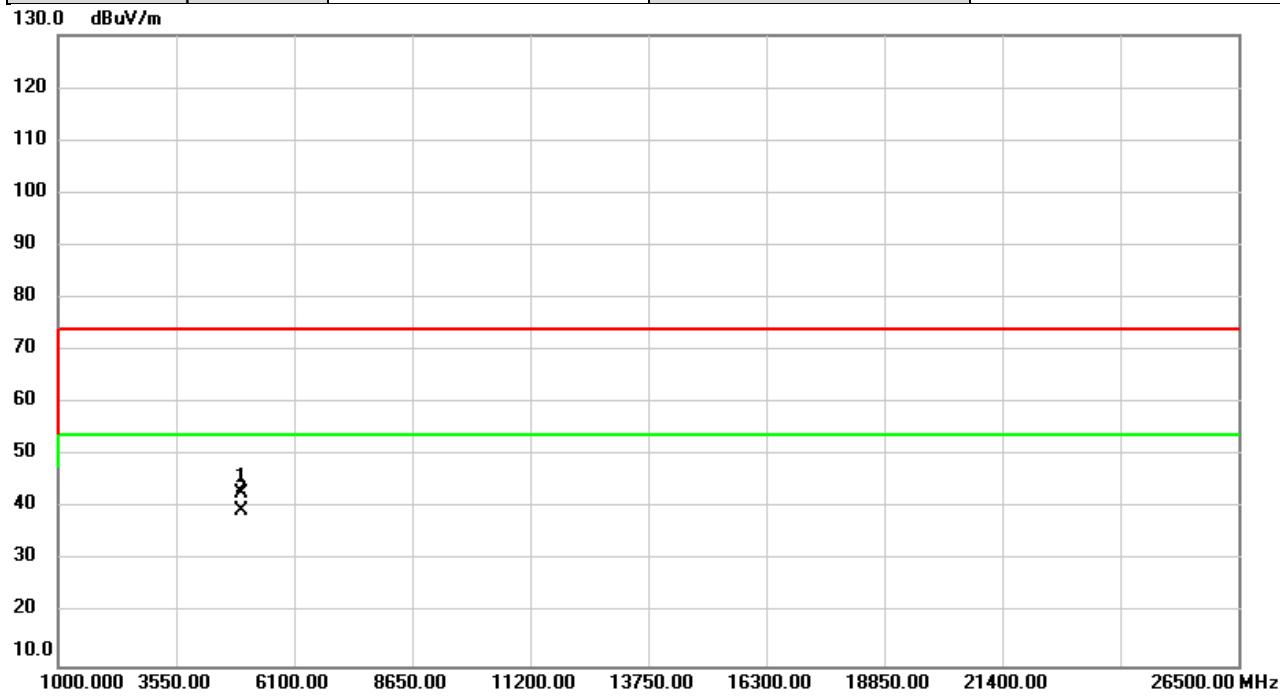


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4960.000	56.04	-9.68	46.36	74.00	-27.64	peak
2	*	4960.000	49.09	-9.68	39.41	54.00	-14.59	AVG

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (1 Mbps)	Test Date	2021/12/3
Test Frequency	2480MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

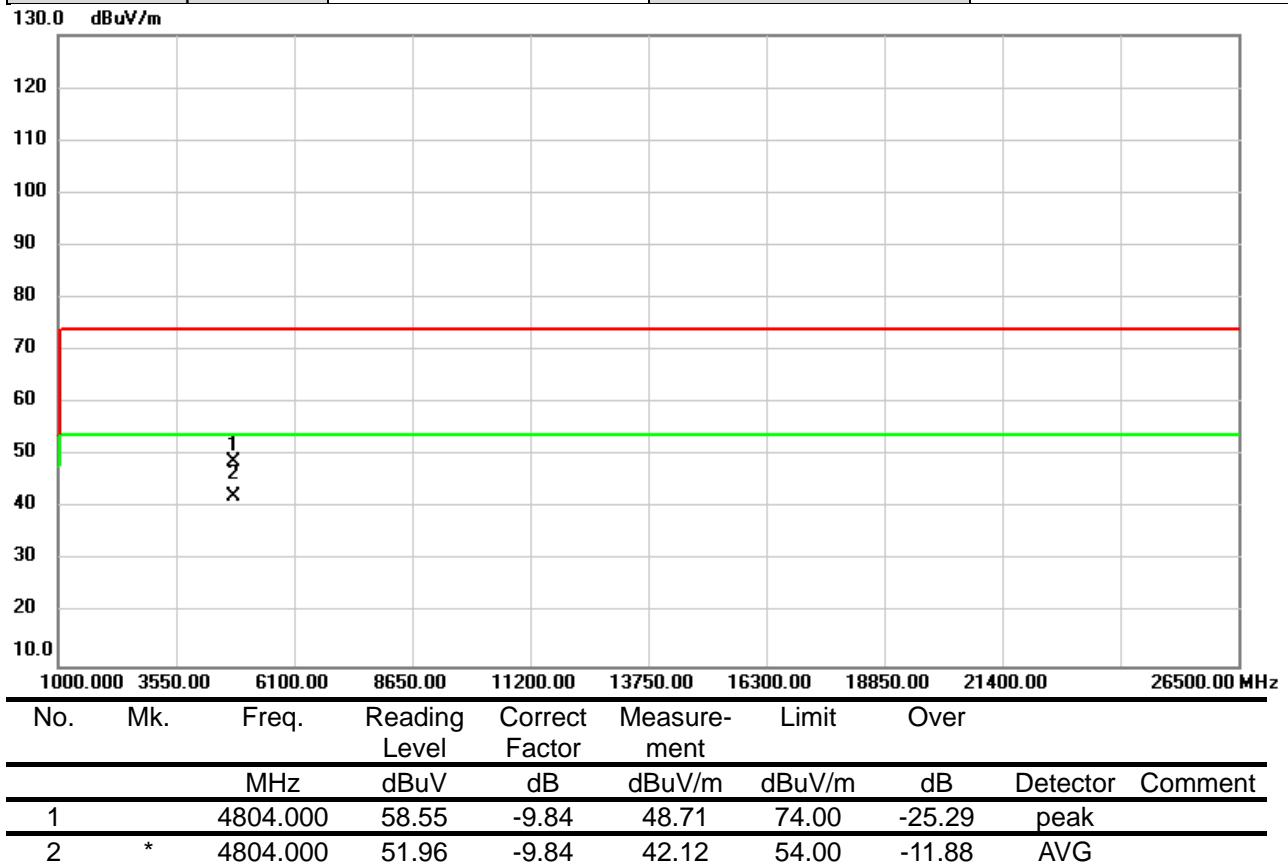


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector
1		4960.000	52.52	-9.68	42.84	74.00	-31.16
2	*	4960.000	49.21	-9.68	39.53	54.00	-14.47

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

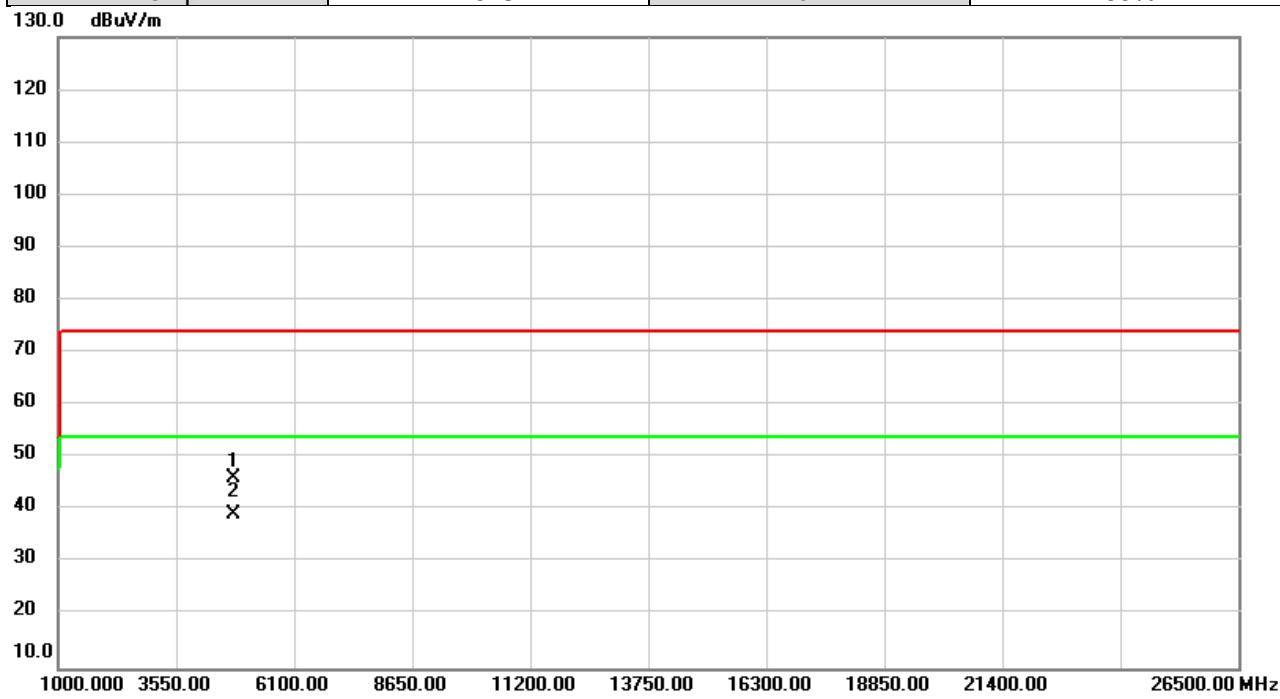
Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Vertical
Temp	20°C	Hum.	65%



## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2402MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

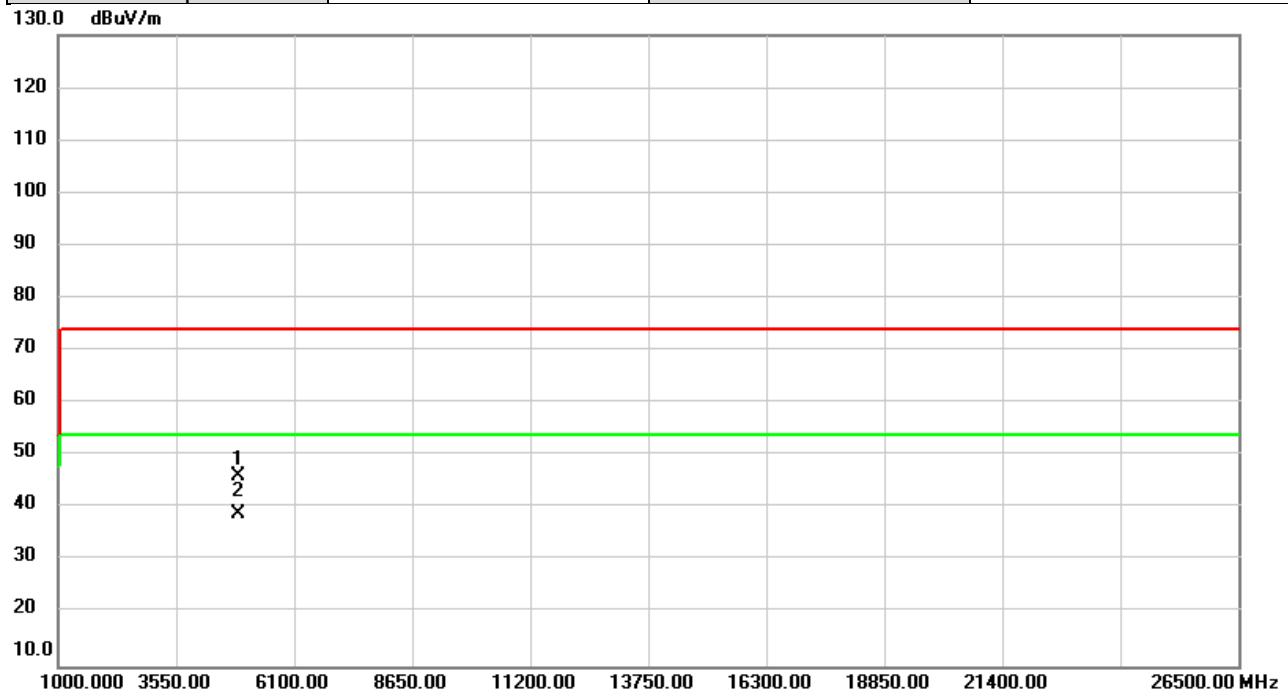


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4804.000	56.06	-9.84	46.22	74.00	-27.78	peak
2	*	4804.000	49.03	-9.84	39.19	54.00	-14.81	AVG

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2440MHz	Polarization	Vertical
Temp	20°C	Hum.	65%

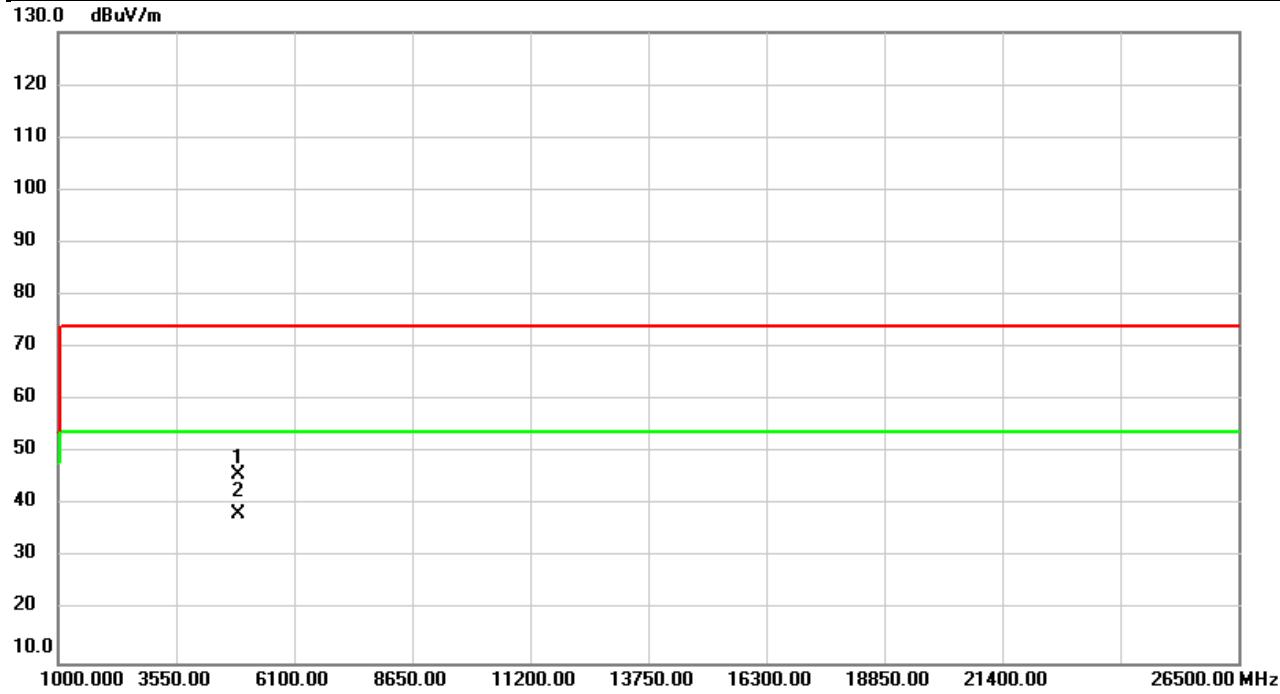


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4880.000	56.02	-9.77	46.25	74.00	-27.75	peak
2	*	4880.000	48.86	-9.77	39.09	54.00	-14.91	AVG

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
 (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2440MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%

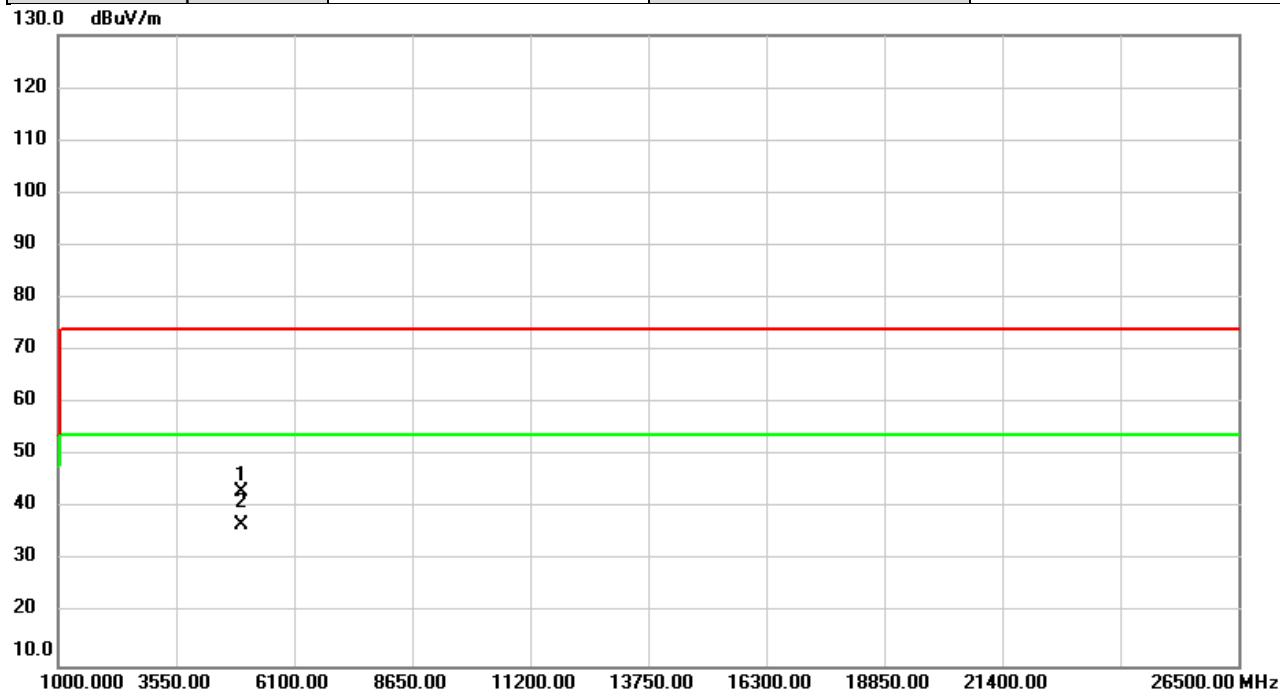


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4880.000	55.72	-9.77	45.95	74.00	-28.05	peak
2	*	4880.000	48.22	-9.77	38.45	54.00	-15.55	AVG

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2480MHz	Polarization	Vertical
Temp	20°C	Hum.	65%

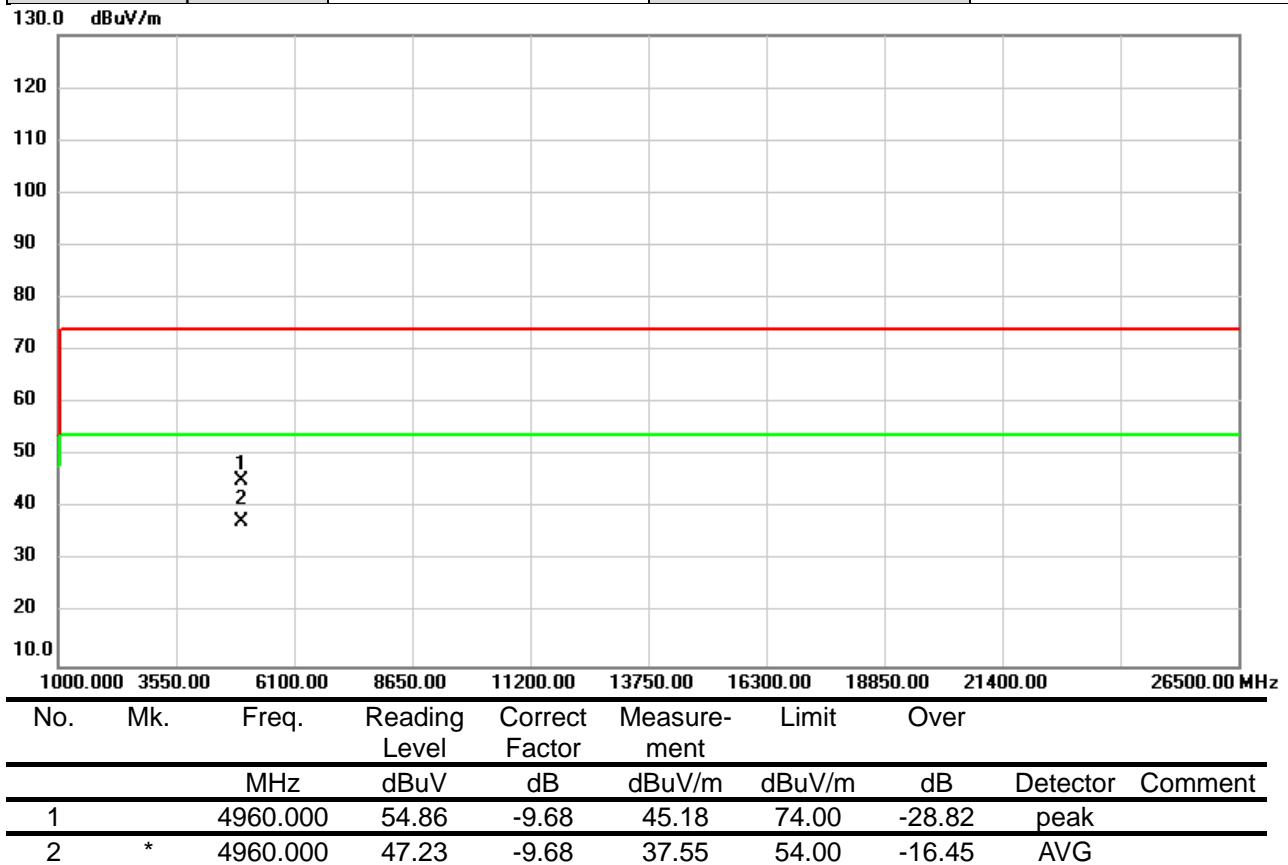


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	Detector	Comment
1		4960.000	52.84	-9.68	43.16	74.00	-30.84	peak
2	*	4960.000	46.44	-9.68	36.76	54.00	-17.24	AVG

**REMARKS:**

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode	BLE 5.0 (2 Mbps)	Test Date	2021/12/3
Test Frequency	2480MHz	Polarization	Horizontal
Temp	20°C	Hum.	65%



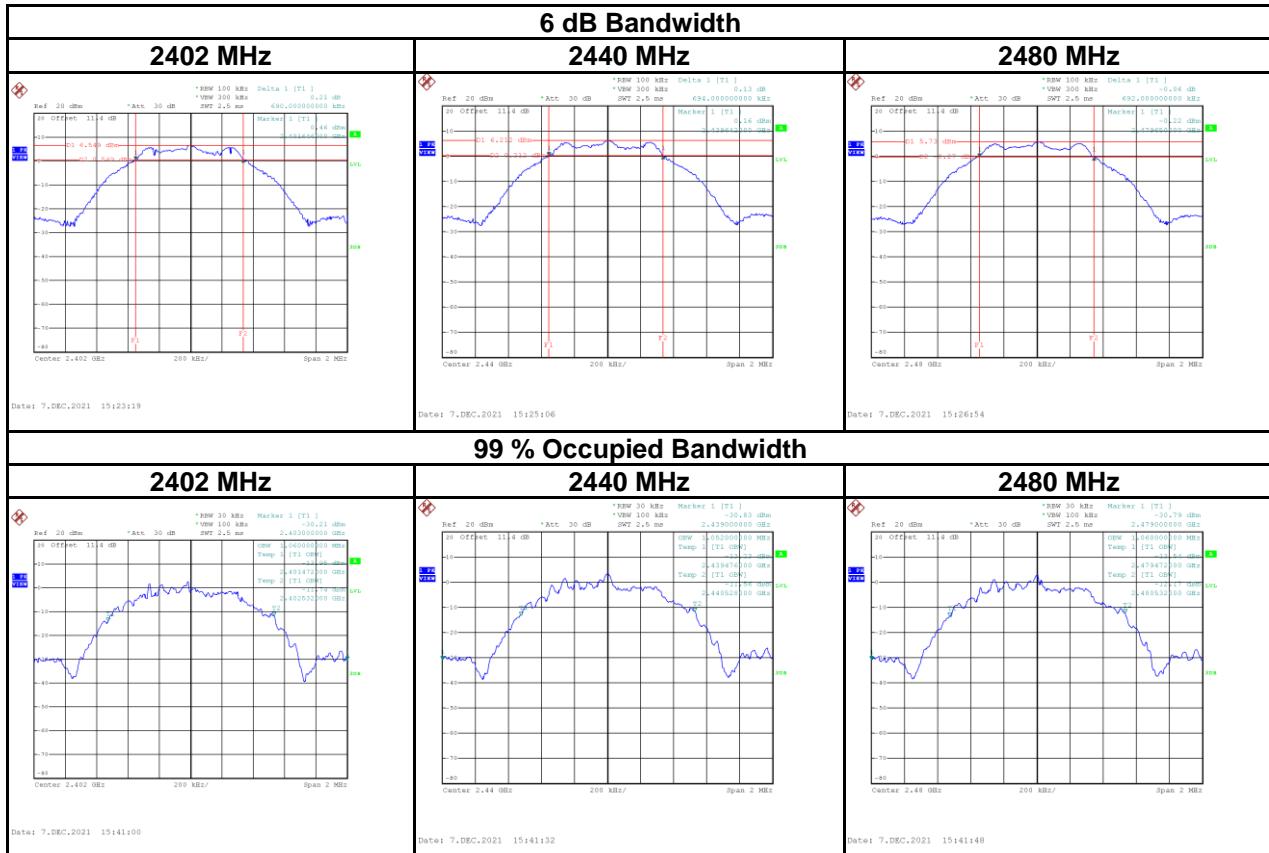
## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

**APPENDIX D BANDWIDTH**

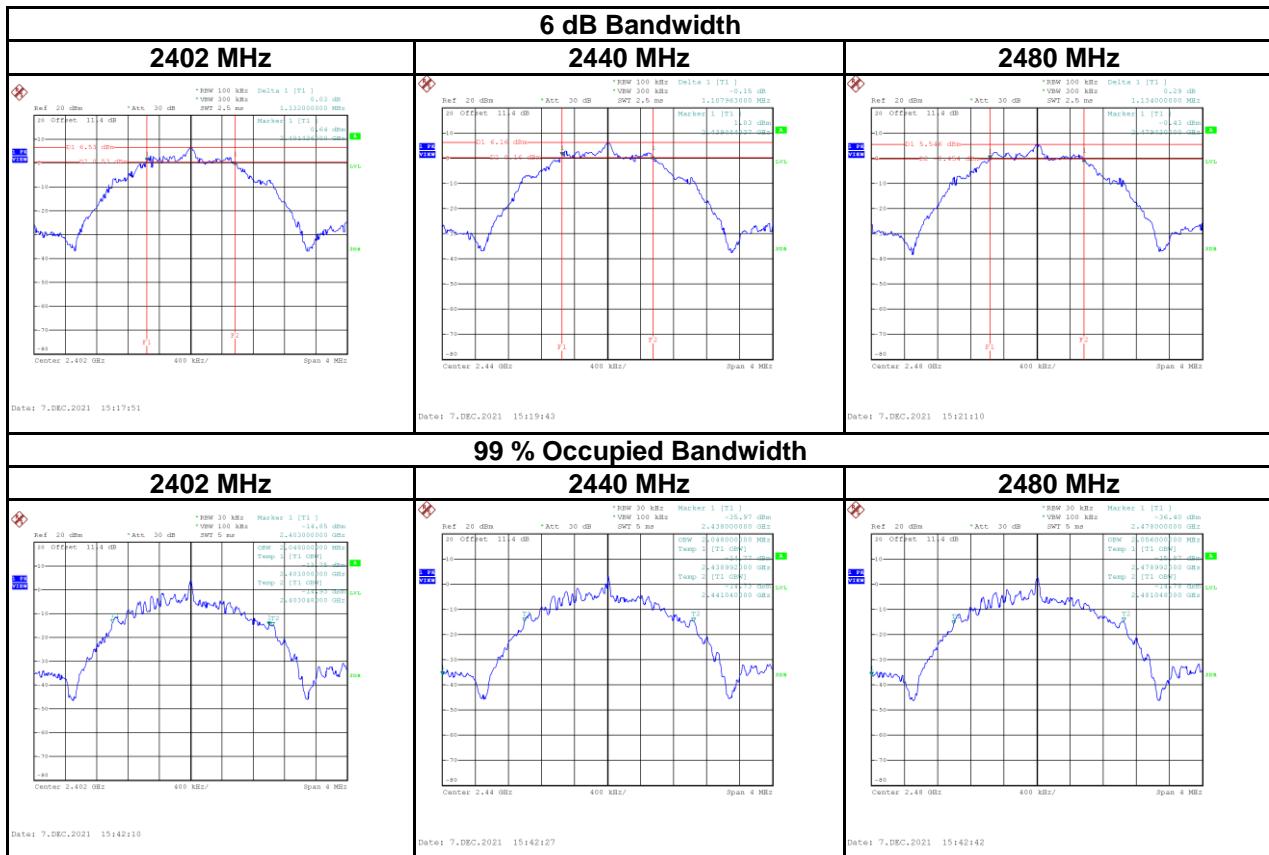
Test Mode:	BLE 1 Mbps
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Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB Min. Limit (kHz)	Test Result
2402	690.00	1.06	500	Pass
2440	694.00	1.05	500	Pass
2480	692.00	1.06	500	Pass



Test Mode:	BLE 2 Mbps
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Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB Min. Limit (kHz)	Test Result
2402	1.13	2.05	500	Pass
2440	1.11	2.05	500	Pass
2480	1.13	2.06	500	Pass



**APPENDIX E    OUTPUT POWER**

Test Mode :	BLE 1 Mbps	Tested Date	2021/12/7
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.93	0.0062	30.00	1.0000	Pass
2440	7.52	0.0056	30.00	1.0000	Pass
2480	7.12	0.0052	30.00	1.0000	Pass

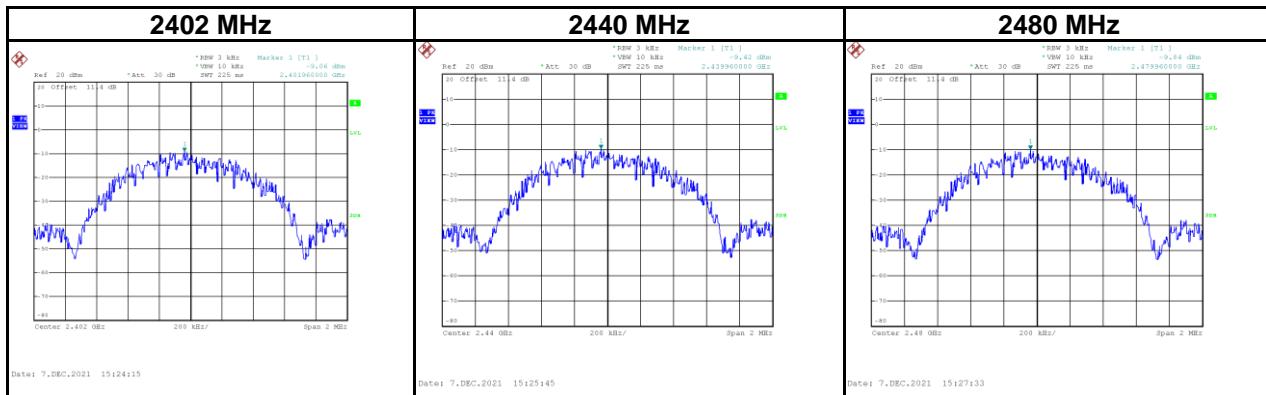
Test Mode :	BLE 2 Mbps	Tested Date	2021/12/7
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Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	7.78	0.0060	30.00	1.0000	Pass
2440	7.53	0.0057	30.00	1.0000	Pass
2480	7.14	0.0052	30.00	1.0000	Pass

**APPENDIX F POWER SPECTRAL DENSITY TEST**

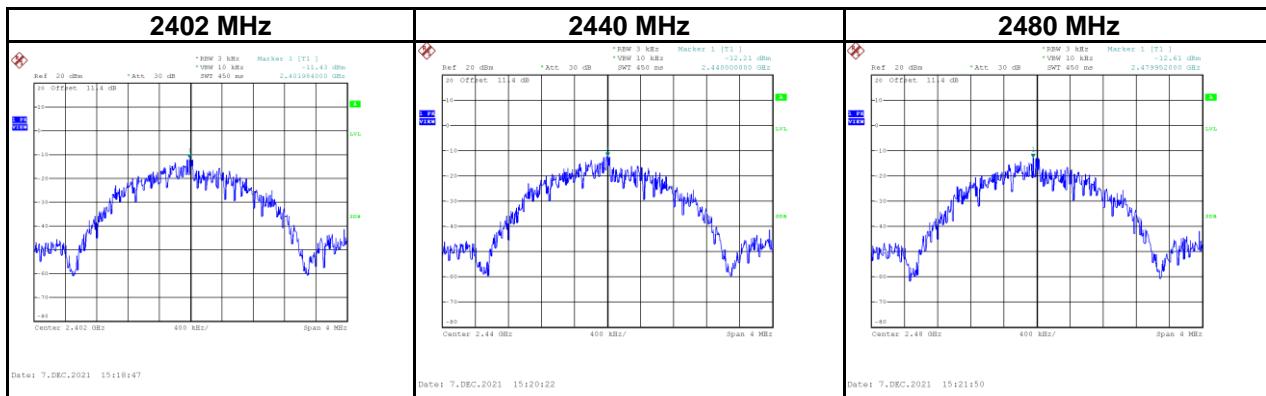
Test Mode:	BLE 1 Mbps
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Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-9.06	8	Pass
2440	-9.42	8	Pass
2480	-9.84	8	Pass



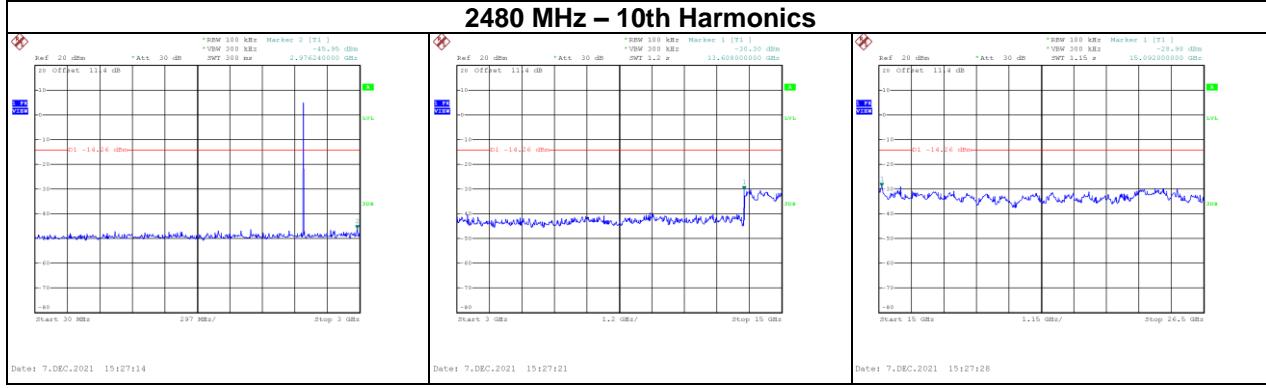
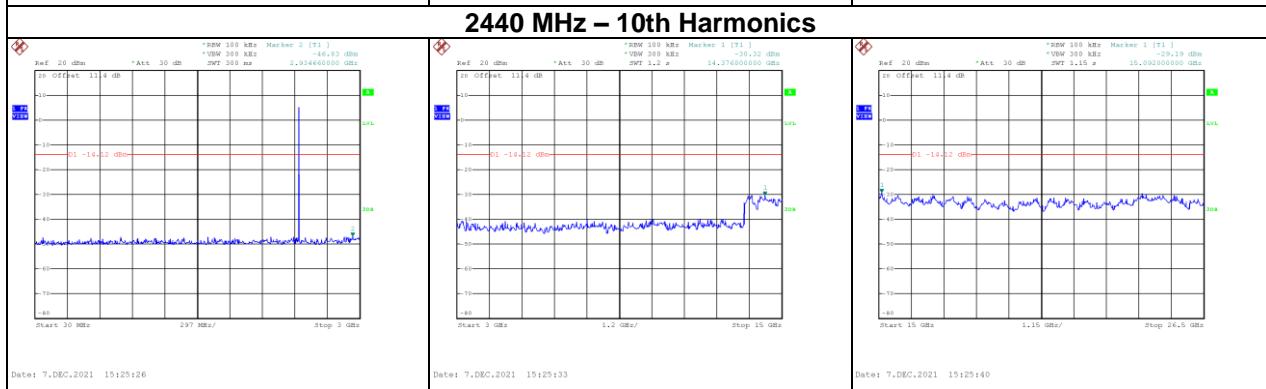
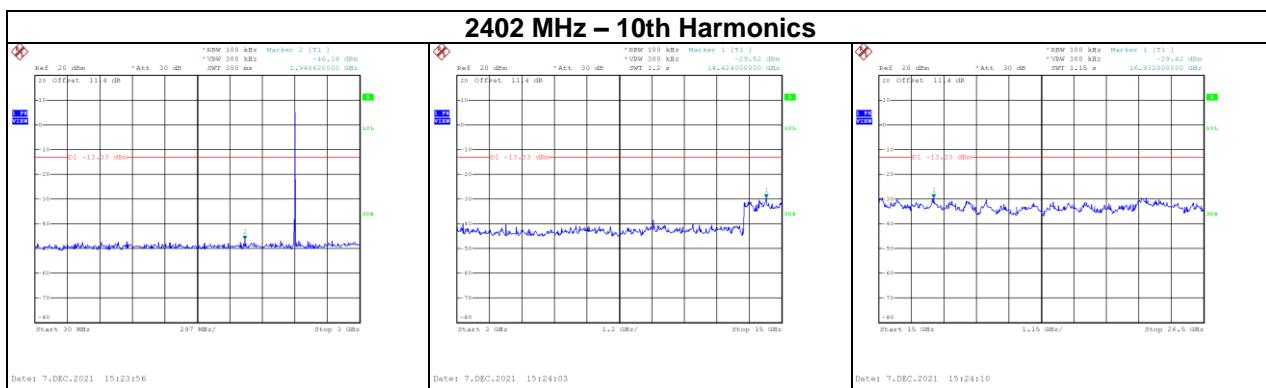
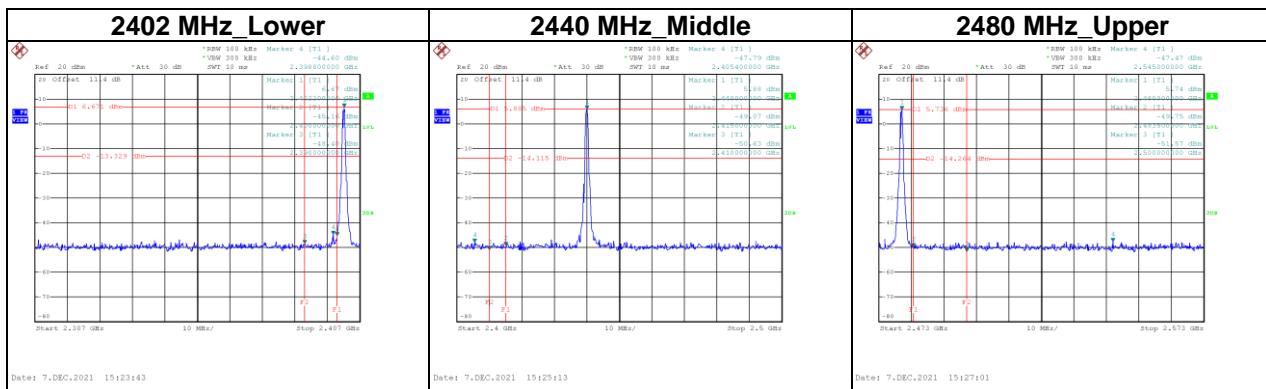
Test Mode:	BLE 2 Mbps
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Frequency (MHz)	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-11.43	8	Pass
2440	-12.21	8	Pass
2480	-12.61	8	Pass

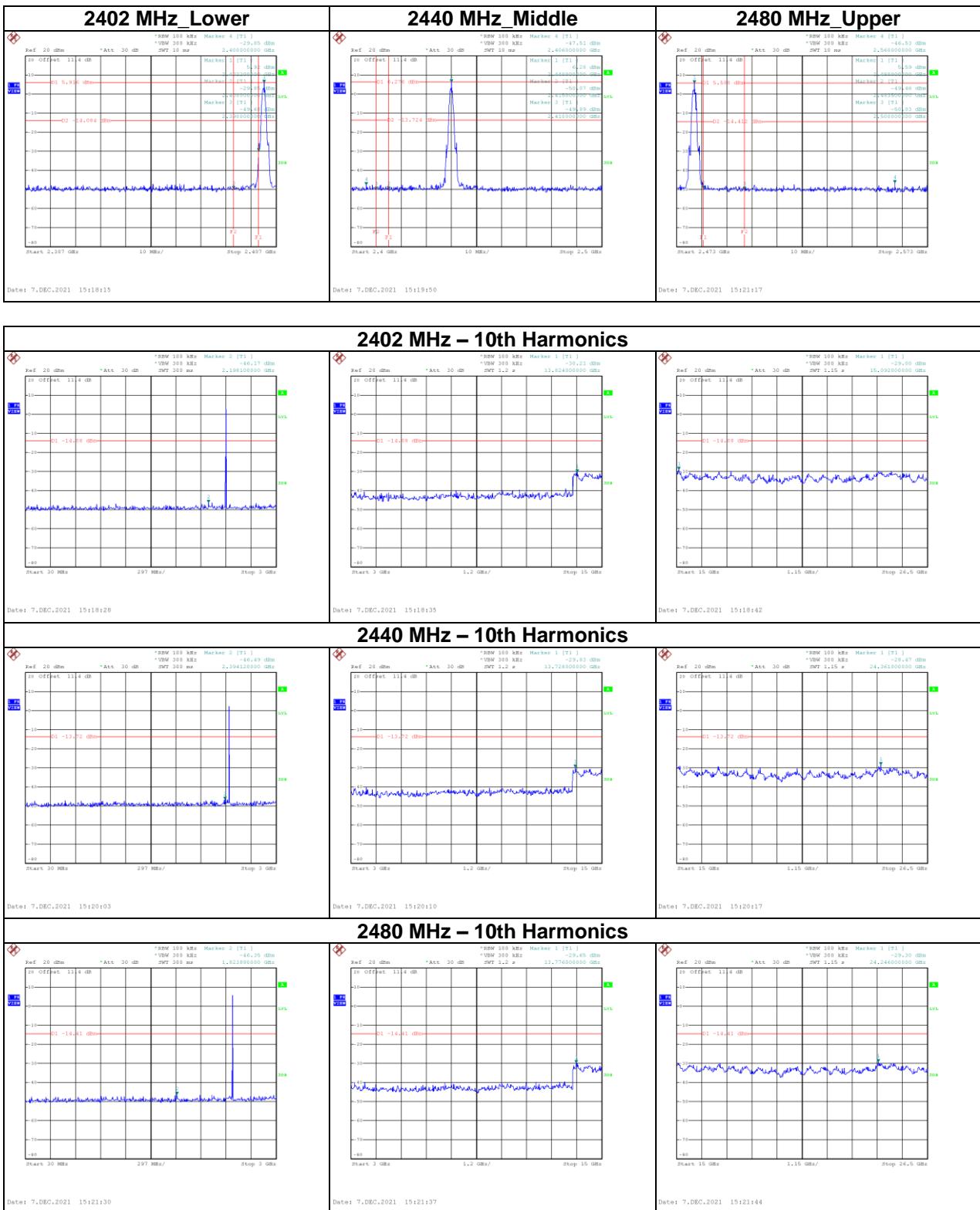


**APPENDIX G ANTENNA CONDUCTED SPURIOUS EMISSION**

Test Mode :	BLE 1 Mbps
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Test Mode : BLE 2 Mbps



End of Test Report