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Report No.: T201104D06-RP2

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C

Test Standard FCC Part 15.247

Product name Digital Paper System

Brand Name Avalue

Model No. EL310XX ($X = 0 \sim 9$ or $A \sim Z$)

Test Result Pass

Statements of Determination of compliance is based on the results of Conformity the compliance measurement, not taking into account

measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:

Kevin Tsai

Deputy Manager

Komil Tyon

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	January 11, 2021	Initial Issue	ALL	Mita Wu



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	AlMobile Co., Ltd. 6F., No166, Sec. 4, Chengde Rd., Shilin Dist., Taipei City 11167, Taiwan, R.O.C
Manufacturer	AlMobile Co., Ltd. 6F., No166, Sec. 4, Chengde Rd., Shilin Dist., Taipei City 11167, Taiwan, R.O.C
Equipment	Digital Paper System
Model No.	EL310XX (X= 0~9 or A~Z)
Model Discrepancy	All the above models are identical except for the designation of model numbers. The suffix of (X= 0~9 or A~Z) on model number is just for marketing purpose only
Trade Name	Avalue
Received Date	November 4, 2020
Date of Test	November 9 ~ December 7, 2020
Power Supply	Power from Host System. Rechargeable Li-Polymer Battery / LIS1633RDPCA Rating: 2000mAh, 7.4Wh Power from Adapter.

Remark:

- 1. For more details, refer to the User's manual of the EUT.
- 2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- 3. Disclaimer: Variant information between/among model numbers / trademarks is provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.



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1.2 EUT CHANNEL INFORMATION

Frequency Range	2402MHz-2480MHz
Modulation Type	GFSK for BLE 1 Mbps & 2 Mbps
Number of channels	40 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels

Number of frequencies to be tested					
Frequency range in Number of Location in frequency which device operates frequencies range of operation					
1 MHz or less	1	Middle			
1 MHz to 10 MHz	2	1 near top and 1 near bottom			
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom			

1.3 ANTENNA INFORMATION

Antenna Type	□ PCB □ Dipole □ Coils
Antenna Gain	2.8 dBi
Antenna Connector	IPEX



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1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	+/- 1.2575
Emission bandwidth, 20dB bandwidth	+/- 0.0014
RF output power, conducted	+/- 1.14
Power density, conducted	+/- 1.40
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12
3M Semi Anechoic Chamber / 200M~1000M	+/- 4.68
3M Semi Anechoic Chamber / 1G~8G	+/- 5.18
3M Semi Anechoic Chamber / 8G~18G	+/- 5.47
3M Semi Anechoic Chamber / 18G~26G	+/- 3.81
3M Semi Anechoic Chamber / 26G~40G	+/- 3.87

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
- 2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



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1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room Lance Chen		-
Radiation	Ray Li, Jerry Chang	-
RF Conducted	Rick Lee	-

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

RF Conducted Test Site							
Equipment Manufacturer Model Serial Number Cal Date Cal Due							
Coaxial Cable	Woken	WC12	CC003	06/29/2020	06/28/2021		
Coaxial Cable	Woken	WC12	CC001	06/29/2020	06/28/2021		
Signal Analyzer	R&S	FSV 40	101073	09/17/2020	09/16/2021		
Power Meter	Anritsu	ML2495A	1149001	N.C.R	N.C.R		
Power Seneor	Anritsu	MA2491A	030982	N.C.R	N.C.R		
Software	e N/A						

Conducted Emission Room # B							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
CABLE	EMCI	CFD300-NL	CERF	06/29/2020	06/28/2021		
EMI Test Receiver	R&S	ESCI	100064	07/17/2020	07/16/2021		
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2020	02/12/2021		
Software	EZ-EMC(CCS-3A1-CE)						

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R. = No Calibration Required.



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3M 966 Chamber Test Site **Serial Number Equipment** Manufacturer Model **Cal Date** Cal Due Band Reject MICRO BRM 50702 120 02/25/2020 02/24/2021 **Filters** TRONICS Bilog Antenna **Sunol Sciences** JB3 A030105 07/24/2020 07/23/2021 **HUBER** SUCOFLEX Coaxial Cable 20995 02/25/2020 02/24/2021 SUHNER 104PEA Coaxial Cable **EMCI** EMC105 190914+327109/4 09/19/2020 09/18/2021 Digital Thermo-Hygro **WISEWIND** 1206 D07 01/15/2020 01/14/2021 Meter double Ridged Guide Horn ETC MCTD 1209 DRH13M02003 09/30/2020 09/29/2021 Antenna Loop Ant **COM-POWER** AL-130 121051 03/27/2020 03/26/2021 Pre-Amplifier **EMEC** EM330 060609 02/25/2020 02/24/2021 Pre-Amplifier **EMEC** EM01G26G 060570 06/29/2020 06/28/2021 **PSA Series** Spectrum E4446A MY46180323 07/24/2020 07/23/2021 Agilent Analyzer Antenna Tower CCS CC-A-1F N/A N.C.R N.C.R Controller CCS CC-C-1F N/A N.C.R N.C.R Turn Table CCS CC-T-1F N/A N.C.R N.C.R e3 6.11-20180413 Software

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Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. N.C.R. = No Calibration Required.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

	EUT Accessories Equipment							
No.	Equipment	Brand	Model	Series No.	FCC ID			
	N/A							

	Support Equipment							
No. Equipment Brand		Model	Series No.	FCC ID				
1	NB(J)	TOSHIBA	PT345T-00L002	N/A	N/A			

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247.

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2. TEST SUMMARY

FCC Standard Section	Report Section	Test Item	Result
15.203	1.3	Antenna Requirement	Pass
15.207(a)	4.1	AC Conducted Emission	Pass
15.247(a)(2)	4.2	6 dB Bandwidth	Pass
-	4.2	Occupied Bandwidth (99%)	Pass
15.247(b)(3)	4.3	Output Power Measurement	Pass
15.247(e)	4.4	Power Spectral Density	Pass
15.247(d)	4.5	Conducted Band Edge	Pass
15.247(d)	4.5	Conducted Spurious Emission	Pass
15.247(d)	4.6	Radiation Band Edge	Pass
15.247(d)	4.6	Radiation Spurious Emission	Pass



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3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	BLE Mode (1Mbps) BLE Mode (2Mbps)
Test Channel Frequencies	1.Lowest Channel : 2402MHz 2.Middle Channel : 2440MHz 3.Highest Channel : 2480MHz

Remark:

^{1.} EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



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3.2 THE WORST MODE OF MEASUREMENT

	AC Power Line Conducted Emission			
Test Condition	AC Power line conducted emission for line and neutral			
Power supply Mode	Mode 1: EUT power by Adapter			
Worst Mode	Mode 1			
F	Radiated Emission Measurement Below 1G			
Test Condition	Radiated Emission Below 1G			
Power supply Mode	Mode 1: EUT power by host system			
Worst Mode	Mode 1			
F	Radiated Emission Measurement Above 1G			
Test Condition	Radiated Emission Above 1G			
Power supply Mode	Mode 1: EUT power by host system			
Worst Mode				
	Placed in fixed position.			
Worst Position				
	☐ Placed in fixed position at Y-Plane (E1-Plane)			
	Placed in fixed position at Z-Plane (H-Plane)			

Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(X-Plane) were recorded in this report
- 3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.



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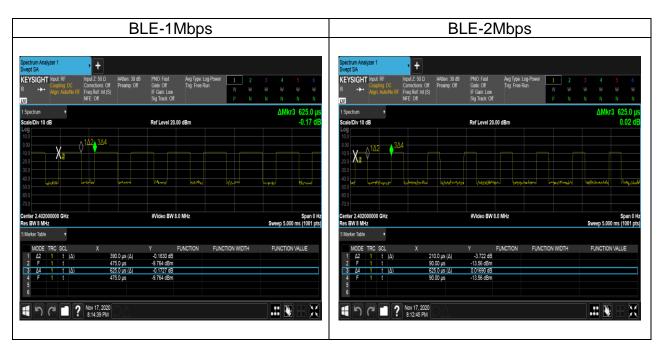
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3.3 EUT DUTY CYCLE

Temperature: 24.1°C **Test Date:** November 17, 2020

Humidity: 54.2% RH **Test by:** Rick Lee

Duty Cycle					
Configuration	Duty Cycle (%)	Duty Factor (dB)	1/T (kHz)	VBW Setting (kHz)	
BLE-1Mbps	76.80%	1.15	0.35	1.00	
BLE-2Mbps	33.60%	4.74	4.76	5.00	





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4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a),

Frequency Range	Limits(dBμV)		
(MHz)	Quasi-peak	Average	
0.15 to 0.50	66 to 56*	56 to 46*	
0.50 to 5	56	46	
5 to 30	60	50	

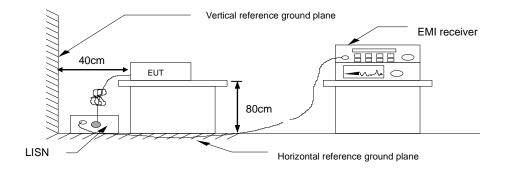
^{*} Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

- The EUT was placed above horizontal ground plane and 0.4m above vertical ground plane
- 2. EUT connected to the line impedance stabilization network (LISN)
- Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

PASS

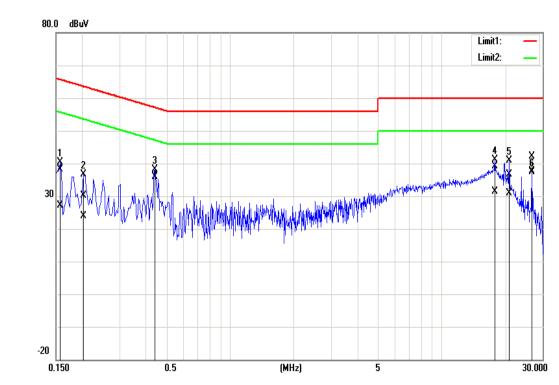


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Test Data

Test Mode:	Mode 1	Temp/Hum	22.4(°C)/ 57%RH
Phase:	Line	Test Date	December 7, 2020
Test Voltage:	120Vac, 60Hz	Test Engineer	Rick Lee



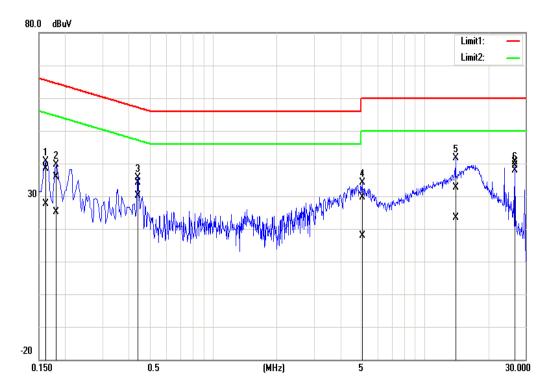
Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (d uV)	Correctio n factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak Iimit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1580	27.85	16.82	10.21	38.06	27.03	65.57	55.57	-27.51	-28.54	Pass
0.2020	19.80	13.70	10.21	30.01	23.91	63.53	53.53	-33.52	-29.62	Pass
0.4420	27.80	25.64	10.22	38.02	35.86	57.02	47.02	-19.00	-11.16	Pass
17.8860	28.78	21.03	10.39	39.17	31.42	60.00	50.00	-20.83	-18.58	Pass
20.8700	26.27	20.60	10.37	36.64	30.97	60.00	50.00	-23.36	-19.03	Pass
26.8260	31.88	27.50	10.25	42.13	37.75	60.00	50.00	-17.87	-12.25	Pass



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Test Mode:	Mode 1	Temp/Hum	22.4(°C)/ 57%RH
Phase:	Neutral	Test Date	December 7, 2020
Test Voltage:	120Vac, 60Hz	Test Engineer	Rick Lee



Frequency (MHz)	Quasi Peak reading dBuV)	Average reading (dBuV)	Correctio n factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak Iimit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark
0.1620	28.08	17.43	10.18	38.26	27.61	65.36	55.36	-27.10	-27.75	Pass
0.1820	25.57	15.03	10.19	35.76	25.22	64.39	54.39	-28.63	-29.17	Pass
0.4420	23.98	19.87	10.19	34.17	30.06	57.02	47.02	-22.85	-16.96	Pass
5.0620	19.31	7.53	10.29	29.60	17.82	60.00	50.00	-30.40	-32.18	Pass
14.0300	22.37	12.98	10.38	32.75	23.36	60.00	50.00	-27.25	-26.64	Pass
26.8300	29.86	27.18	10.59	40.45	37.77	60.00	50.00	-19.55	-12.23	Pass



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4.26dB BANDWIDTH AND OCCUPIED BANDWIDTH (99%)

4.2.1 Test Limit

According to §15.247(a)(2)

6 dB Bandwidth :

Limit	Shall be at least 500kHz
-------	--------------------------

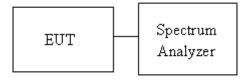
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as ANSI C63.10: 2013,

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- Setting maximum power transmit of EUT.
- 3. SA set RBW =100KHz, VBW = 300KHz and Detector = Peak, to measurement 6dB Bandwidth.
- 4. SA set RBW = 1% ~ 5% OBW, VBW = three times the RBW and Detector = Peak, to measurement 99% Bandwidth.
- 5. Measure and record the result of 6 dB Bandwidth and 99% Bandwidth. in the test report.

4.2.3 Test Setup





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4.2.4 Test Result

Temperature: 24.7°C **Test Date:** November 13, 2020

Humidity: 55% RH Test by: Rick Lee

Test mode: BLE-1Mbps mode / 2402-2480 MHz						
Channel	Frequency (MHz)	OBW (99%) (MHz)	6dB BW (MHz)	6dB limit (kHz)		
Low	2402	1.0246	0.6913			
Mid	2440	1.0246	0.6956	>500		
High	2480	1.0246	0.6869			
	Test mode:	BLE-2Mbps mode /	2402-2480 MHz			
Low	2402	2.0231	1.1565			
Mid	2440	2.0231	1.1565	>500		
High	2480	2.0231	1.1565			

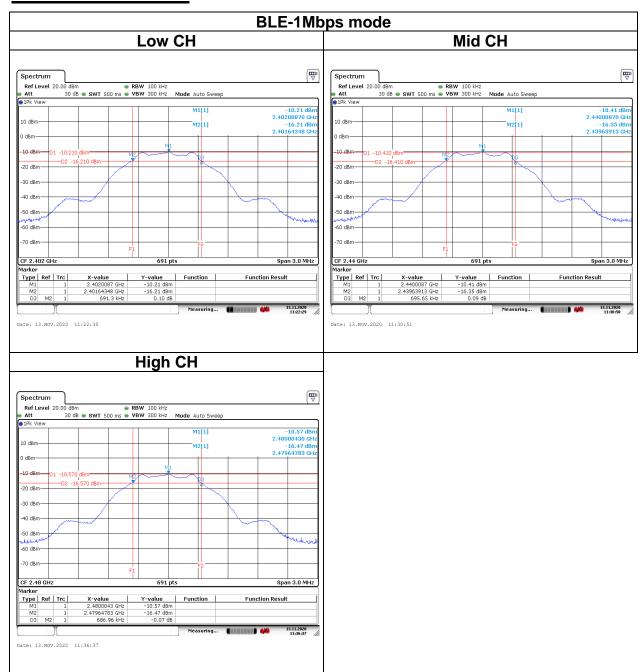


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6dB BANDWIDTH





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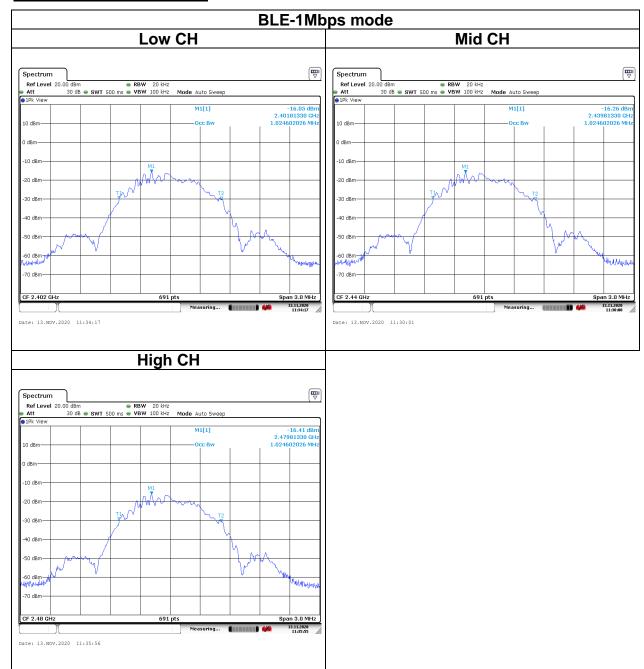


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Test Data

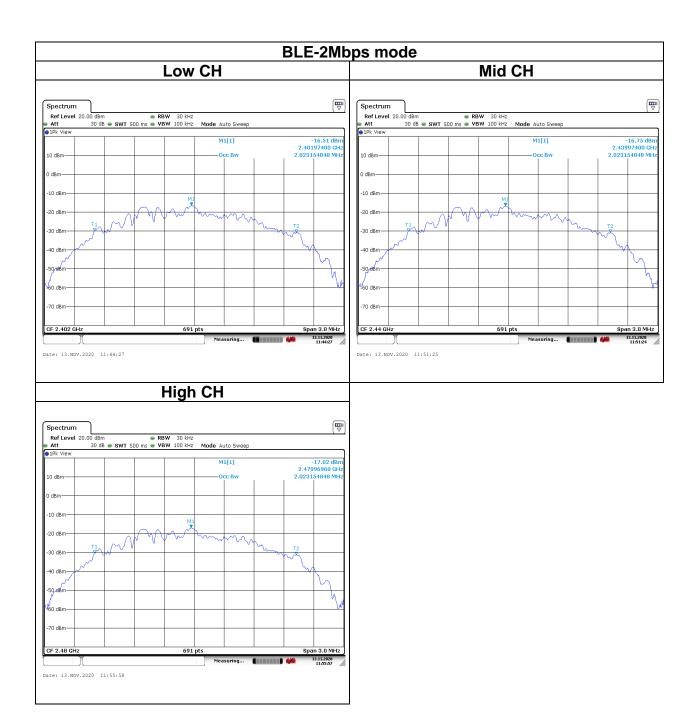
BANDWIDTH (99%)





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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b)(3)

Peak output power:

FCC

Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Limit	 ✓ Antenna not exceed 6 dBi : 30dBm ✓ Antenna with DG greater than 6 dBi [Limit = 30 - (DG - 6)] ✓ Point-to-point operation

Average output power: For reporting purposes only.



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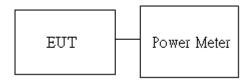
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4.3.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

- 1. The EUT RF output connected to the power meter by RF cable.
- 2. Setting maximum power transmit of EUT.
- 3. The path loss was compensated to the results for each measurement.
- 4. Measure and record the result of Peak output power and Average output power. in the test report.

4.3.3 Test Setup





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4.3.4 Test Result

BLE-1Mbps

Temperature: 25.1°C **Test Date:** November 23, 2020

Humidity: 57% RH **Test by:** Rick Lee

BLE-2Mbps

Temperature: 24.1°C **Test Date:** November 23, 2020

Humidity: 58% RH **Test by:** Rick Lee

Peak output power:

BLE Mode						
Config.	СН	Freq. (MHz)	Power Settin g	PK Power (dBm)	PK Power (W)	FCC Limit (dBm)
BLE Data rate: 1Mbps	0	2402	3	5.07	0.0032	
	19	2440	3	4.91	0.0031	30
	39	2480	3	4.83	0.0030	
BLE Data rate: 2Mbps	0	2402	3	4.93	0.0031	
	19	2440	3	4.96	0.0031	30
	39	2480	3	4.86	0.0031	

Average output power:

BLE Mode				
Config.	СН	Freq. (MHz)	AV Power (dBm)	
BLE	0	2402	3.99	
Data rate:	19	2440	3.73	
1Mbps	39	2480	3.56	
BLE	0	2402	3.56	
Data rate:	19	2440	3.59	
2Mbps	39	2480	3.53	



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4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.247(e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

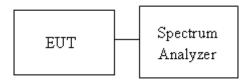
Limit	 ✓ Antenna not exceed 6 dBi : 8dBm ✓ Antenna with DG greater than 6 dBi [Limit = 8 - (DG - 6)] ✓ Point-to-point operation :
-------	---

4.4.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- 3. SA set RBW = 3kHz, VBW = 10kHz, Span = 1.5 times DTS Bandwidth (6 dB BW), Detector = Peak, Sweep Time = Auto and Trace = Max hold.
- 4. The path loss and Duty Factor were compensated to the results for each measurement by SA.
- 5. Mark the maximum level.
- 6. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup





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4.4.4 Test Result

Temperature: 24.7°C **Test Date:** November 13, 2020

Humidity: 55% RH **Test by:** Rick Lee

Test mode: BLE-1Mbps mode / 2402-2480 MHz			
Channel	Frequency (MHz)	PSD (dBm)	FCC limit (dBm)
Low	2402	-14.46	
Mid	2440	-14.59	8
High	2480	-14.77	

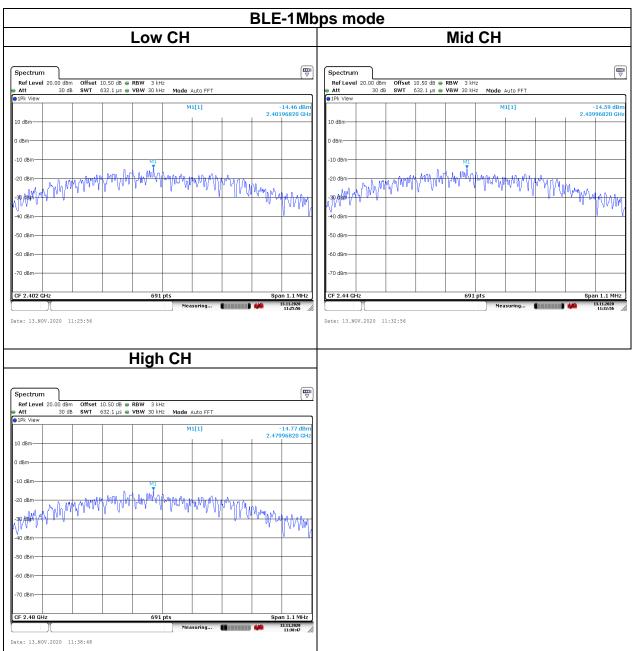
Test mode: BLE-2Mbps mode / 2402-2480 MHz				
Channel	Frequency (MHz)	PSD (dBm)	FCC limit (dBm)	
Low	2402	-17.38		
Mid	2440	-17.48	8	
High	2480	-17.66		



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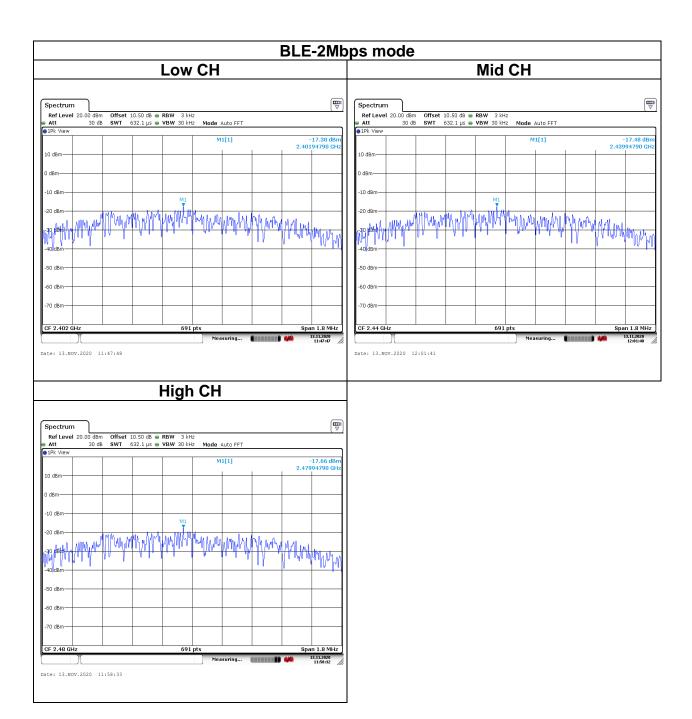
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4.5 CONDUCTED BAND EDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d)

FCC: In any 100 kHz bandwidth outside the authorized frequency band,

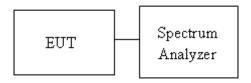
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

- 1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
- 2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
- 3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

4.5.3 Test Setup





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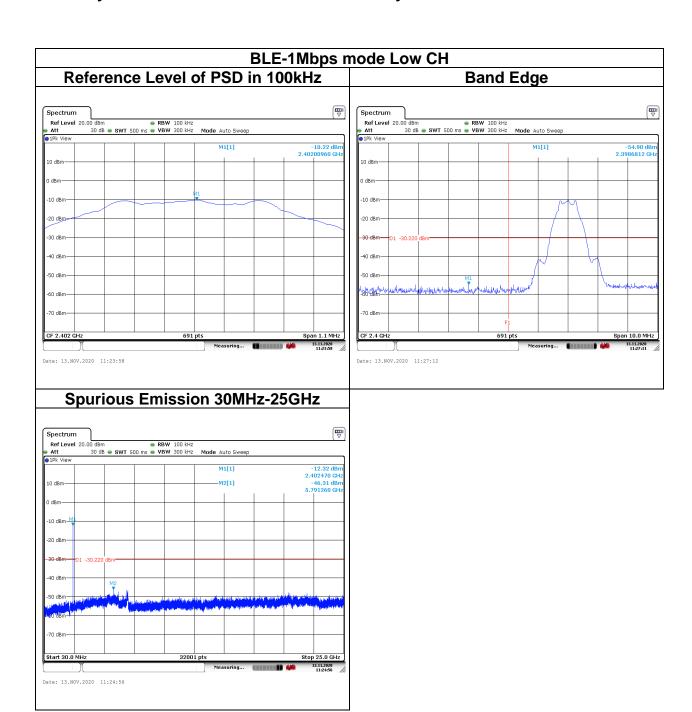
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4.5.4 Test Result

Test Data

Temperature: 24.7°C **Test Date:** November 13, 2020

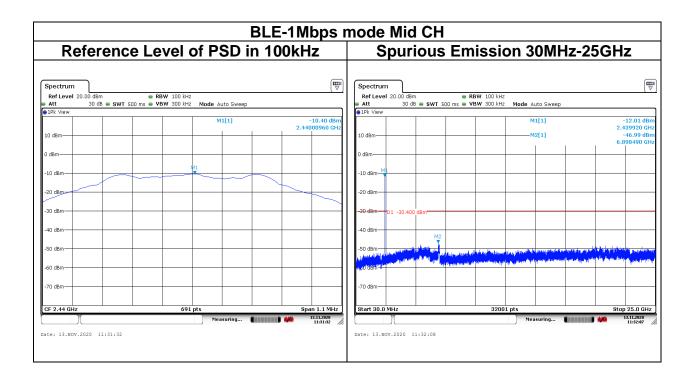
Humidity: 55% RH Test by: Rick Lee





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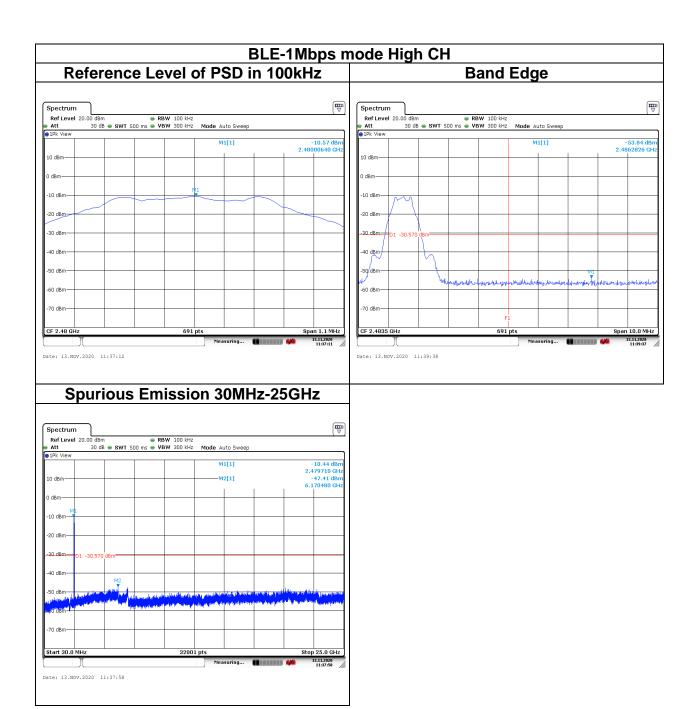
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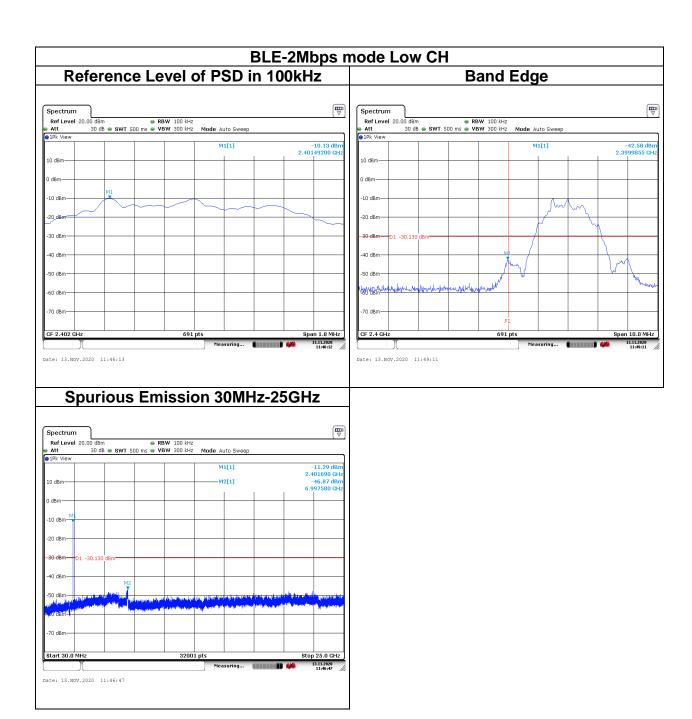
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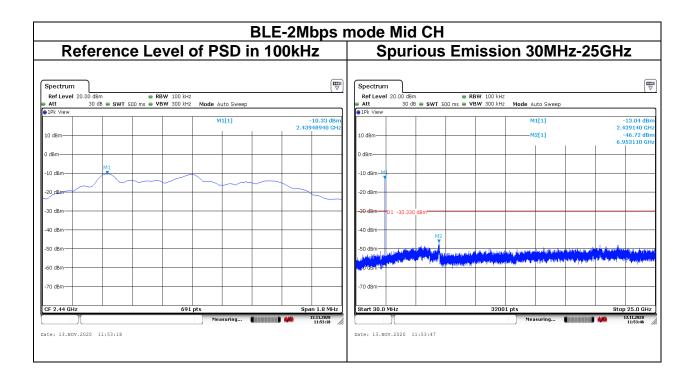
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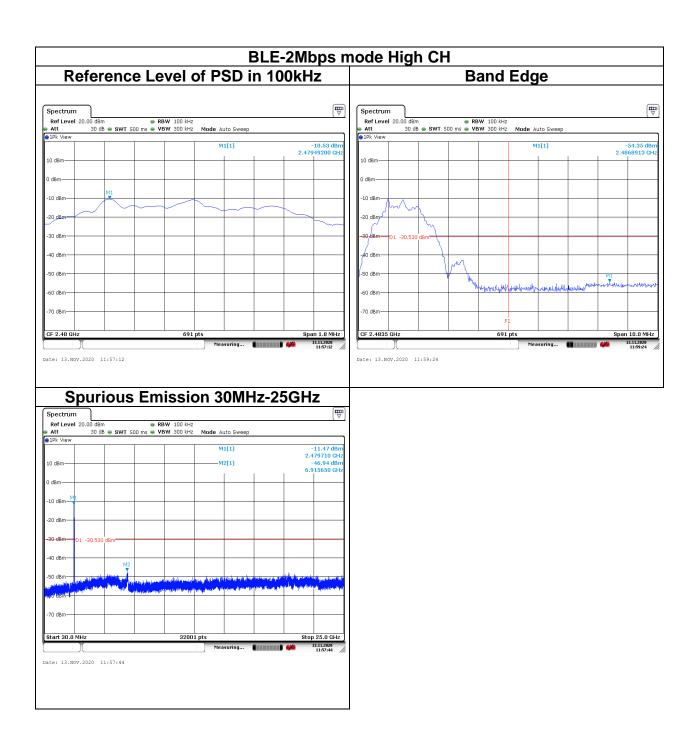
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4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (meters)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency	Field Strength microvolts/m at 3 meters (watts, e.i.r.p.)		
(MHz)	Transmitters	Receivers	
30-88	100 (3 nW)	100 (3 nW)	
88-216	150 (6.8 nW)	150 (6.8 nW)	
216-960	200 (12 nW)	200 (12 nW)	
Above 960	500 (75 nW)	500 (75 nW)	

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.



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4.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 9KHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Remark:

- 1. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

 2. No emission found between lowest internal used/generated frequency to 30MHz
- No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

4. The SA setting following:

- (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
- (2) Above 1G:
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW

If Duty Cycle ≥ 98%, VBW=10Hz.

If Duty Cycle < 98%, VBW=1/T.

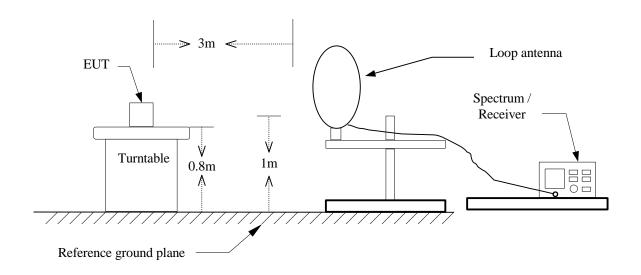


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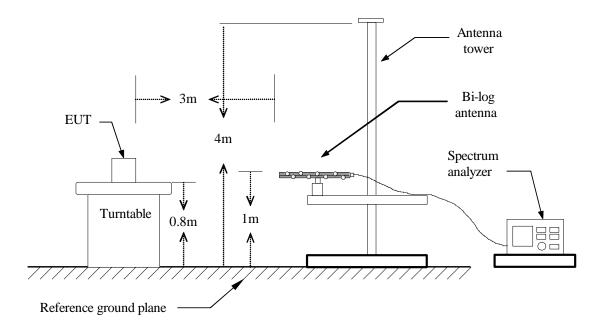
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4.6.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz

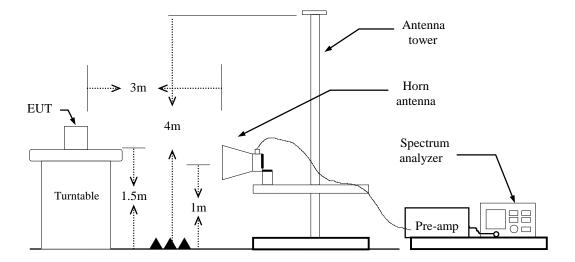




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Above 1 GHz





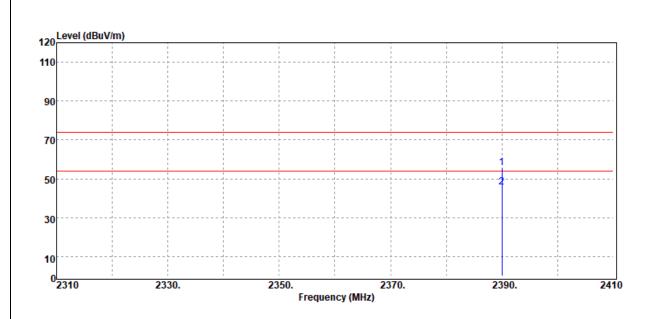
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4.6.4 Test Result

Band Edge Test Data

Test Mode:	BLE-1Mbps Low CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



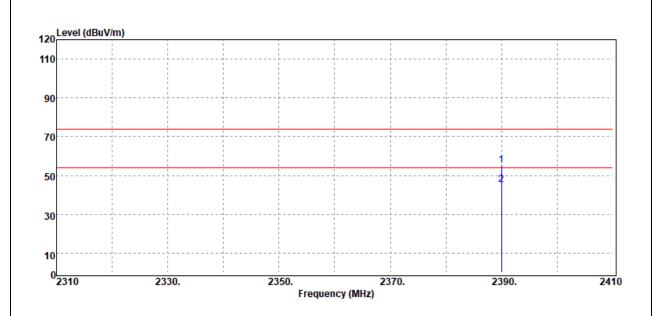
Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	Peak	72.79	-17.18	55.61	74.00	-18.39
2390.00	Average	62.90	-17.18	45.72	54.00	-8.28



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Test Mode:	BLE-1Mbps Low CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



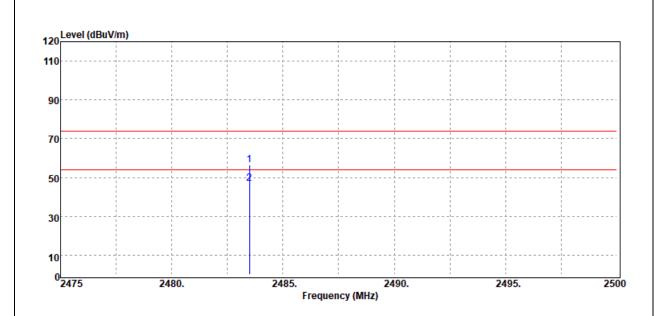
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz 2390.00	PK/QP/AV Peak	dBμV 72.45	-17.18	dBμV/m 55.27	dBμV/m 74.00	-18.73
2390.00	Average	62.60	-17.18	45.42	54.00	-8.58



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Test Mode:	BLE-1Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



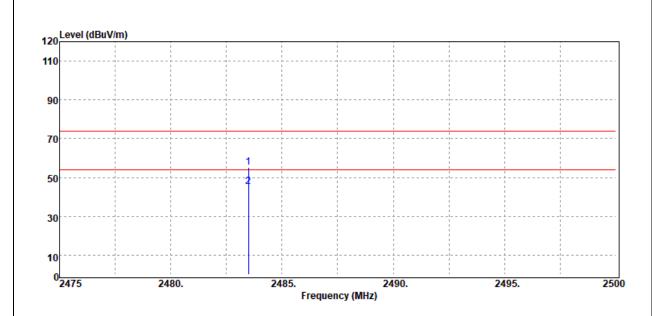
Freq.	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS	Limit @3m	Margin dB
IVITZ	PK/QP/AV	dΒμV	uБ	dBμV/m	dBµV/m	uБ
2483.50	Peak	73.53	-16.98	56.55	74.00	-17.45
2483.50	Average	63.70	-16.98	46.72	54.00	-7.28



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Test Mode:	BLE-1Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

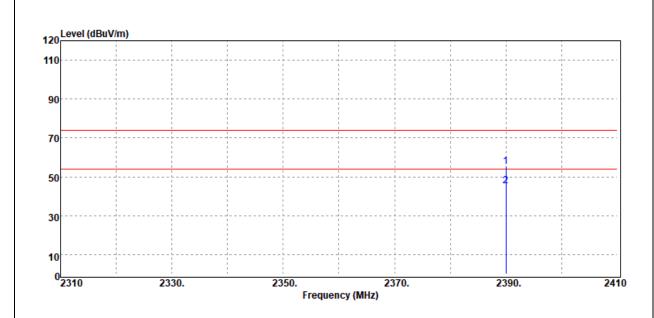


Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	Peak	72.07	-16.98	55.09	74.00	-18.91
2483.50	Average	62.30	-16.98	45.32	54.00	-8.68



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Test Mode:	BLE-2Mbps Low CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



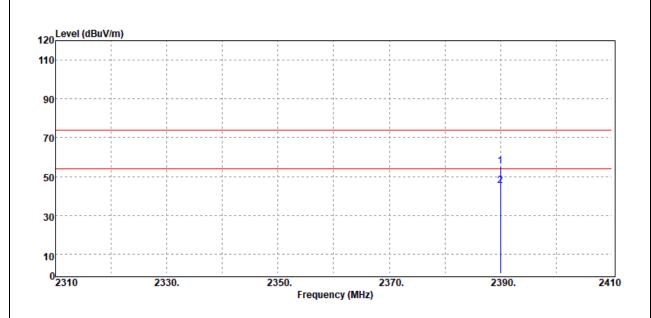
Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	Peak	72.23	-17.18	55.05	74.00	-18.95
2390.00	Average	62.40	-17.18	45.22	54.00	-8.78



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Test Mode:	BLE-2Mbps Low CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



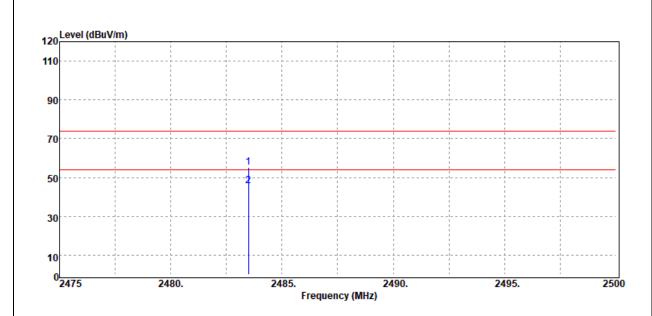
Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2390.00	Peak	72.35	-17.18	55.17	74.00	-18.83
2390.00	Average	62.60	-17.18	45.42	54.00	-8.58



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Test Mode:	BLE-2Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Test Item Band Edge		November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



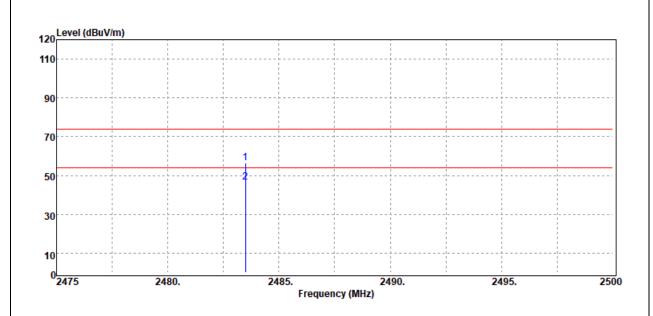
Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	Peak	72.36	-16.98	55.38	74.00	-18.62
2483.50	Average	62.50	-16.98	45.52	54.00	-8.48



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Test Mode:	BLE-2Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Band Edge	Test Date	November 9, 2020
Polarize	Polarize Horizontal		Ray Li
Detector	Peak / Average		



Freq.	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
2483.50	Peak	73.31	-16.98	56.33	74.00	-17.67
2483.50	Average	63.50	-16.98	46.52	54.00	-7.48

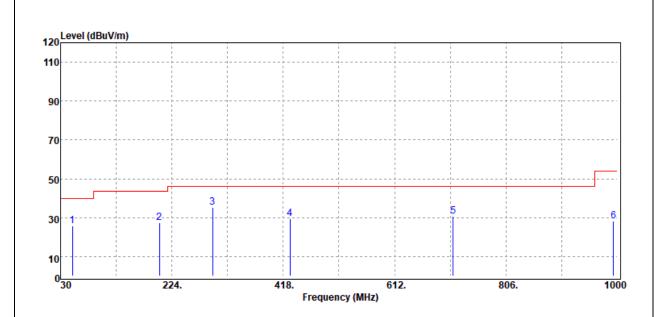


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Below 1G Test Data

Test Mode:	BLE-1Mbps Mode	Temp/Hum	22.6(°C)/ 59%RH
Test Item	Test Item 30MHz-1GHz		November 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

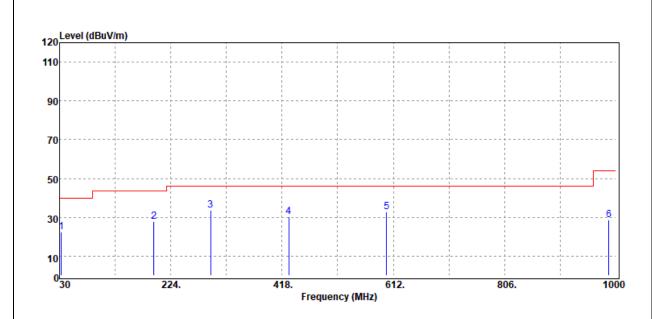


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
50.37	Peak	-489.19	514.94	25.75	40.00	-14.25
202.66	Peak	-492.37	519.59	27.22	43.50	-16.28
294.81	Peak	-486.07	521.41	35.34	46.00	-10.66
429.64	Peak	-495.57	525.08	29.51	46.00	-16.49
713.85	Peak	-499.00	529.88	30.88	46.00	-15.12
993.21	Peak	-504.99	533.42	28.43	54.00	-25.57



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Test Mode:	BLE-1Mbps Mode	Temp/Hum	22.6(°C)/ 59%RH
Test Item	Test Item 30MHz-1GHz		November 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		

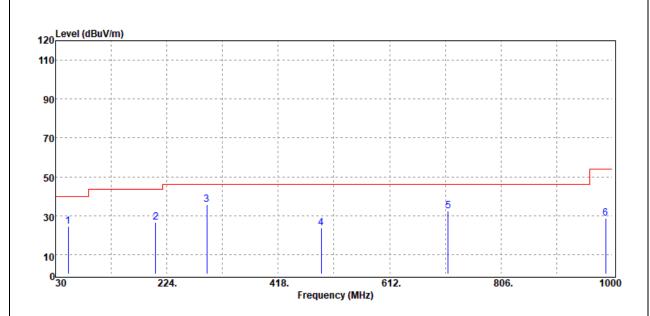


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
32.91	Peak	-503.36	525.84	22.48	40.00	-17.52
194.90	Peak	-492.03	519.99	27.96	43.50	-15.54
293.84	Peak	-487.58	521.40	33.82	46.00	-12.18
429.64	Peak	-494.65	525.08	30.43	46.00	-15.57
600.36	Peak	-495.13	527.79	32.66	46.00	-13.34
987.39	Peak	-504.27	532.96	28.69	54.00	-25.31



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Test Mode:	BLE-2Mbps Mode	Temp/Hum	22.6(°C)/ 59%RH
Test Item	Test Item 30MHz-1GHz		November 11, 2020
Polarize	Vertical	Test Engineer	Jerry Chang
Detector	Peak		

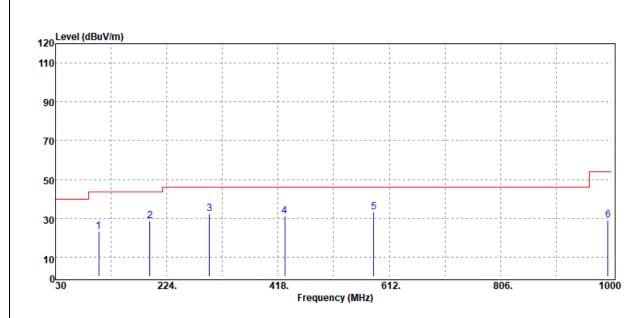


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
52.31	Peak	-489.70	514.40	24.70	40.00	-15.30
204.60	Peak	-492.27	518.75	26.48	43.50	-17.02
293.84	Peak	-485.77	521.40	35.63	46.00	-10.37
492.69	Peak	-502.69	526.47	23.78	46.00	-22.22
713.85	Peak	-497.58	529.88	32.30	46.00	-13.70
988.36	Peak	-504.38	533.03	28.65	54.00	-25.35



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Test Mode:	BLE-2Mbps Mode	Temp/Hum	22.6(°C)/ 59%RH
Test Item 30MHz-1GHz		Test Date	November 11, 2020
Polarize	Horizontal	Test Engineer	Jerry Chang
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
105.66	Peak	-495.92	519.06	23.14	43.50	-20.36
194.90	Peak	-491.43	519.99	28.56	43.50	-14.94
298.69	Peak	-489.29	521.49	32.20	46.00	-13.80
429.64	Peak	-493.89	525.08	31.19	46.00	-14.81
584.84	Peak	-494.32	527.54	33.22	46.00	-12.78
993.21	Peak	-504.42	533.42	29.00	54.00	-25.00

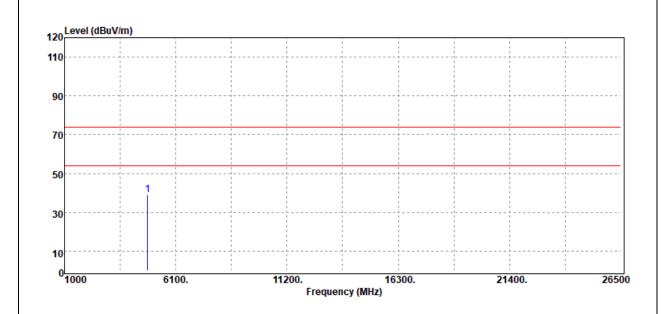


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Above 1G Test Data

Test Mode: BLE-1Mbps Low CH		Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4804.00	Peak	50.50	-11.45	39.05	74.00	-34.95
N/A						

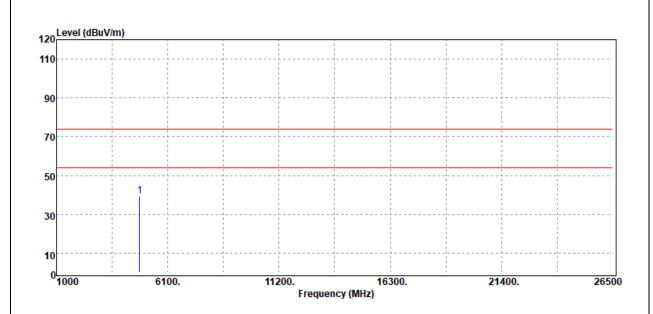
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode: BLE-1Mbps Low CH		Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



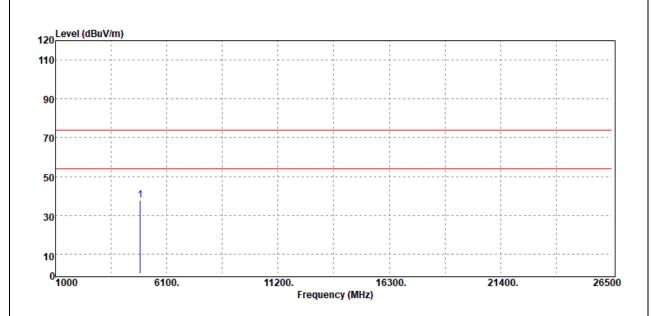
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.00	Peak	50.75	-11.45	39.30	74.00	-34.70
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode:	Test Mode: BLE-1Mbps Mid CH		22.4(°C)/ 55%RH
Test Item	Test Item Harmonic		November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4880.00	Peak	48.83	-11.07	37.76	74.00	-36.24
N/A						

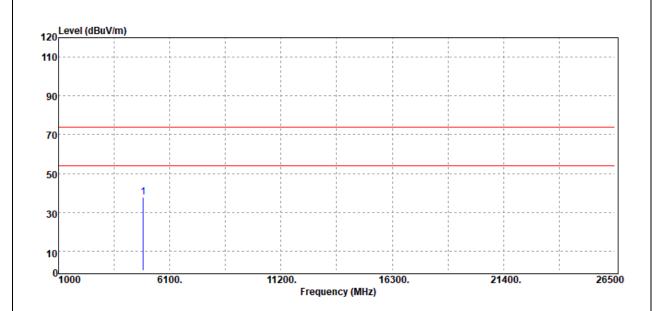
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode: BLE-1Mbps Mid CH		Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4880.00	Peak	48.96	-11.07	37.89	74.00	-36.11
N/A						

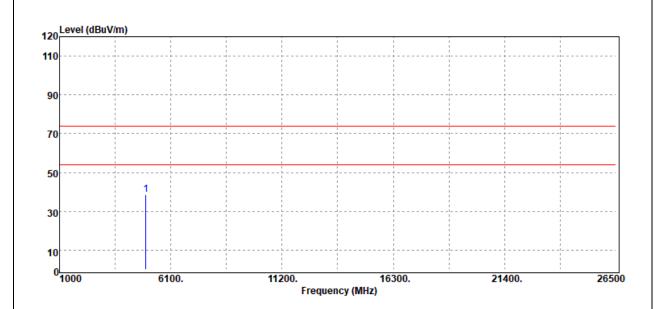
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode: BLE-1Mbps High CH		Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Peak	49.01	-10.49	38.52	74.00	-35.48
N/A						

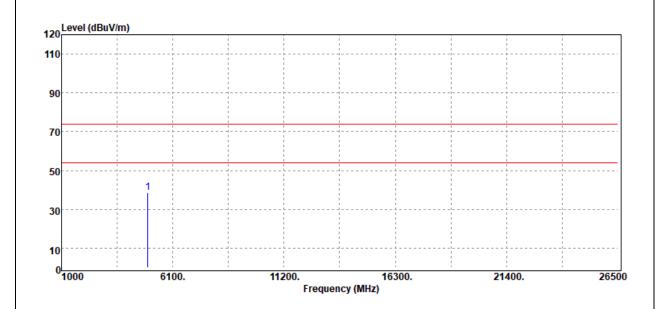
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode:	BLE-1Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.00	Peak	49.10	-10.49	38.61	74.00	-35.39
N/A						

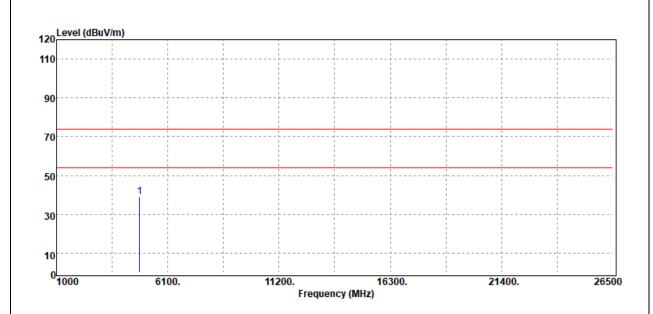
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode:	BLE-2Mbps Low CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4804.00	Peak	50.52	-11.45	39.07	74.00	-34.93
N/A						

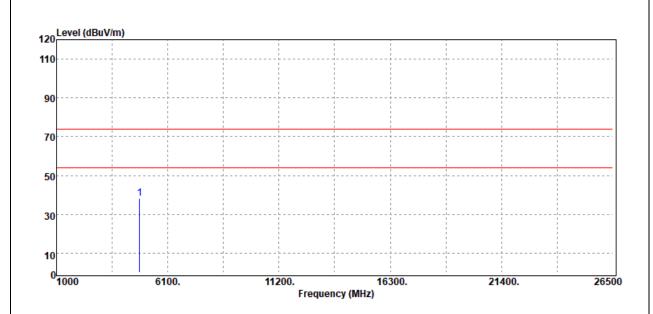
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode: BLE-2Mbps Low CH		Temp/Hum	22.4(°C)/ 55%RH	
Test Item Harmonic		Test Date	November 9, 2020	
Polarize	Horizontal	Test Engineer	Ray Li	
Detector	Peak			



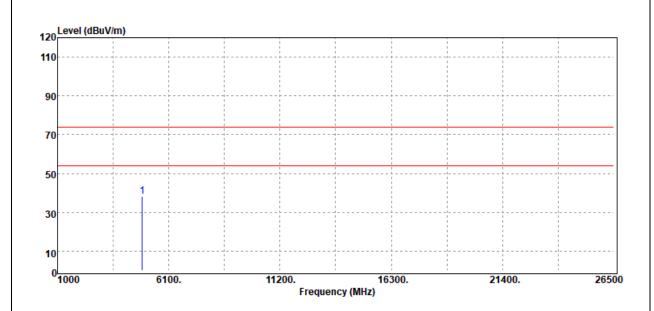
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4804.00	Peak	49.67	-11.45	38.22	74.00	-35.78
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode: BLE-2Mbps Mid		Temp/Hum	22.4(°C)/ 55%RH
Test Item	Test Item Harmonic		November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



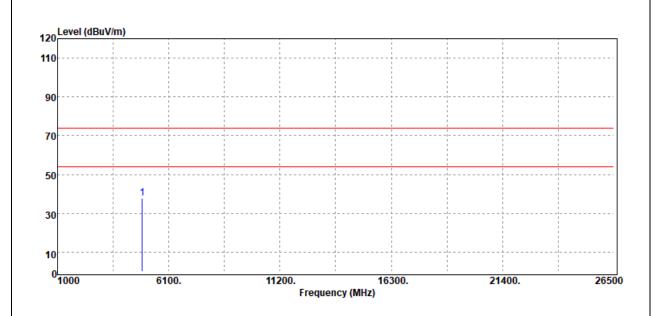
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4880.00	Peak	49.42	-11.07	38.35	74.00	-35.65
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode: BLE-2Mbps Mid CH		Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



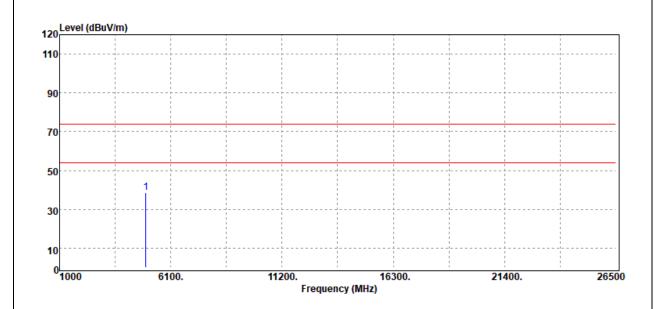
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4880.00	Peak	48.76	-11.07	37.69	74.00	-36.31
N/A						

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode:	BLE-2Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH
Test Item	Harmonic	Test Date	November 9, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4960.00	Peak	49.18	-10.49	38.69	74.00	-35.31
N/A						

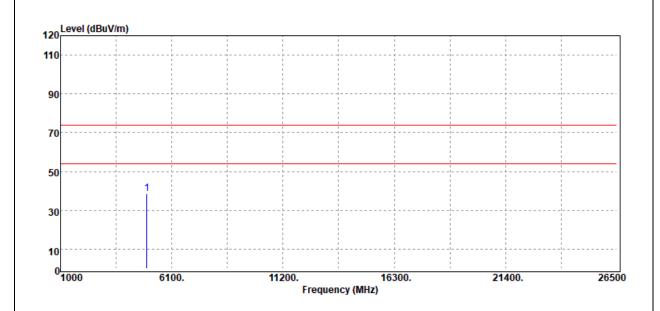
- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



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Test Mode:	BLE-2Mbps High CH	Temp/Hum	22.4(°C)/ 55%RH	
Test Item	Harmonic	Test Date	November 9, 2020	
Polarize	Horizontal	Test Engineer	Ray Li	
Detector	Peak			



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4960.00	Peak	49.08	-10.49	38.59	74.00	-35.41
N/A						

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

-- End of Test Report--