





FCC ID: 2AI5H-PU1-1801 1 / 41 Page Report No.: T190605W01-RP2 Rev. 01

RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C

FCC Part 15.247 **Test Standard**

Brand name Aura

Product name Aura Frame -Smart Digital Picture Frame

Model No. PU1-1801

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: Tested by:

Kevin Tsai

Komil Tson

Dally Hong Engineer

Dalf. Hong

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00天。本報告未經本公司書面許可,不可部分複製

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Deputy Manager



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	July 16, 2019	Initial Issue	ALL	Allison Chen
01	July 22, 2019	See the following Note Rev.(01)	P.7-8	Allison Chen

Rev.(01)

^{1.} Added remark in section 1.6.



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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Pushd inc 50 Eldridge Street Suite 5D, New York, NY 10002 USA
Manufacturer	Goldtek Technology Co., Ltd. 16F, No.166, Jian 1st Rd., Zhonghe Dist., New Taipei City.(R.O.C)
Equipment	Aura Frame –Smart Digital Picture Frame
Model No.	PU1-1801
Model Discrepancy	N/A
Trade Name	Aura
Received Date	June 5, 2019
Date of Test	June 13 ~ 25, 2019
Output Power (W)	BLE: 0.0104
Power Supply	Power from AC Adapter. AURA AC/DC Adapter / SR-A30503000U2 I/P: 100-240Vac, 50/60Hz, 0.55A Max O/P: 5Vdc, 3A, 15W



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1.2 EUT CHANNEL INFORMATION

Frequency Range	2402MHz-2480MHz
Modulation Type	GFSK for BLE-1Mbps
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	☐ PIFA ☐ PCB ☒ Dipole ☐ Coils
Antenna Gain	Gain: 2.32dBi
Antenna connector	MHF Plug



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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 24891, Taiwan. (R.O.C.)

Test site	Test Engineer	Remark
AC Conduction Room	Dally Hong	-
Radiation	Dally Hong	-
RF Conducted	Dally Hong	-

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 Calibration Date Calibration Du							
Coaxial Cable	Woken	WC12	CC003	06/29/2018	06/28/2019		
Power Meter	Anritsu	ML2495A	1149001	02/12/2019	02/11/2020		
Power Seneor	Anritsu	MA2491A	030982	02/12/2019	02/11/2020		
Software			N/A				

3M 966 Chamber Test Site							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Band Reject Filters	MICRO TRONICS	BRM 50702	120	02/26/2019	02/25/2020		
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019		
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020		
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020		
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020		
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019		
Loop Ant	COM-POWER	AL-130	121051	03/22/2019	03/21/2020		
Pre-Amplifier	EMEC	EM330	060609	02/26/2019	02/25/2020		
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020		
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/29/2019	05/28/2020		
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		
Software	e3 6.11-20180413						

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.
- 3. An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.



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AC Conducted Emissions Test Site						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
CABLE	EMCI	CFD300-NL	CERF	06/29/2018	06/28/2019	
EMI Test Receiver	R&S	ESCI	100064	07/24/2018	07/23/2019	
LISN	SCHWARZBECK	NSLK 8127	8127-541	01/31/2019	01/30/2020	
LISN	SCHAFFNER	NNB 41	03/10013	02/13/2019	02/12/2020	
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.
- 3. An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.



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1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

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

Support Equipment							
No.	No. Equipment Brand Model Series No. FCC ID						
1	NB(L)	Toshiba	PORTEGE R30-A	N/A	PD97260H		

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, KDB 558074 D01.

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2. TEST SUMMERY

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 Spurious Emission	Pass
15.247(d)	4.5	Conducted 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)
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 100 ~ 240 V TO DC 5V						
Worst Mode	☑ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4					
Radiated Emission Measurement Above 1G						
Test Condition	Band edge, Emission for Unwanted and Fundamental					
Power supply Mode	Mode 1:EUT power by Adapter 100 ~ 240 V TO DC 5V					
Worst Mode	✓ Mode 1 ✓ Mode 2 ✓ Mode 3 ✓ Mode 4					
Worst Position	 □ Placed in fixed position. □ Placed in fixed position at X-Plane (E2-Plane) □ Placed in fixed position at Y-Plane (E1-Plane) ☑ Placed in fixed position at Z-Plane (H-Plane) 					
Worst Polarity	☐ Horizontal ⊠ Vertical					
Ra	Radiated Emission Measurement Below 1G					
Test Condition	Radiated Emission Below 1G					
Power supply Mode	Mode 1:FUT nower by Adapter 100 ~ 240 V TO DC 5V					

Remark:

Worst Mode

1. The worst mode was record in this test report.

Mode 1

2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case(Z-Plane and Vertical) were recorded in this report

Mode 2

Mode 3

Mode 4

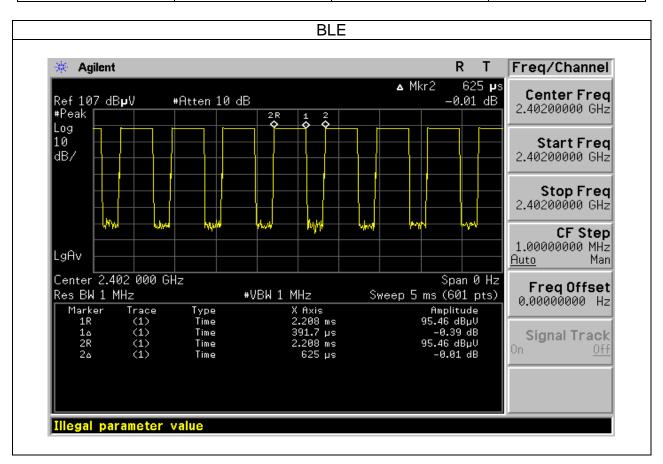
3. AC power line conducted emission and for below 1G radiation emission were performed the EUT transmit at the highest output power channel as worse case.



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3.3 EUT DUTY CYCLE

Duty Cycle						
Configuration TX ON (ms) TX ALL (ms) Duty Cycle (%)						
BLE	0.3917	0.6250	62.67%			





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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		

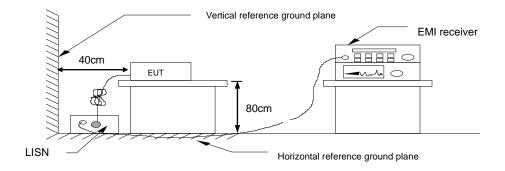
^{*} Decreases with the logarithm of the frequency.

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)
- 3. 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



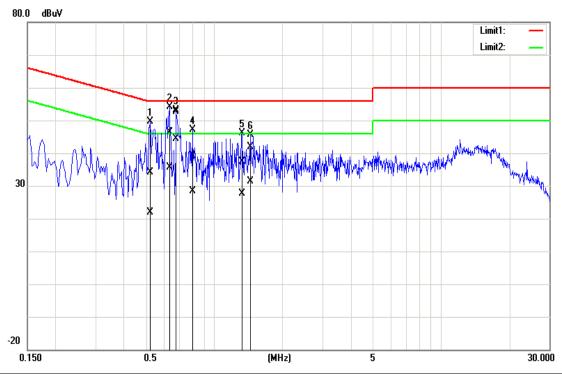
4.1.4 Test Result

Pass.



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Test Mode:	Mode 1	Temp/Hum	24(°C) / 50%RH
Phase:	Line	Test Date	June 25, 2019
		Test Engineer	Dally Hong

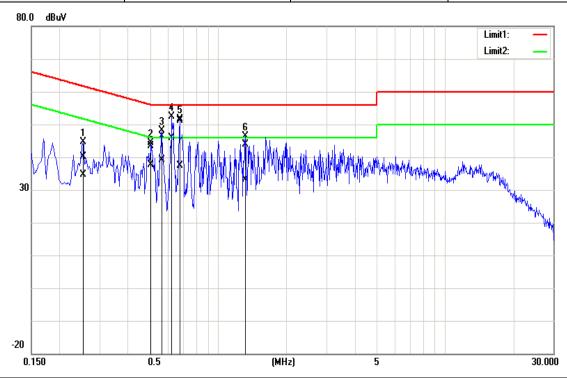


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.5220	24.10	11.64	10.14	34.24	21.78	56.00	46.00	-21.76	-24.22	Pass
2	0.6340	36.17	25.38	10.15	46.32	35.53	56.00	46.00	-9.68	-10.47	Pass
3*	0.6820	42.58	34.29	10.15	52.73	44.44	56.00	46.00	-3.27	-1.56	Pass
4	0.8020	28.86	18.26	10.16	39.02	28.42	56.00	46.00	-16.98	-17.58	Pass
5	1.3260	27.33	17.46	10.17	37.50	27.63	56.00	46.00	-18.50	-18.37	Pass
6	1.4420	31.72	21.21	10.17	41.89	31.38	56.00	46.00	-14.11	-14.62	Pass



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Test Mode:	Mode 1	Temp/Hum	24(°C) / 50%RH
Phase:	Neutral	Test Date	June 25, 2019
		Test Engineer	Dally Hong



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.2540	30.02	24.53	10.02	40.04	34.55	61.63	51.63	-21.59	-17.08	Pass
2	0.5060	33.39	27.49	10.03	43.42	37.52	56.00	46.00	-12.58	-8.48	Pass
3	0.5660	36.37	29.04	10.03	46.40	39.07	56.00	46.00	-9.60	-6.93	Pass
4*	0.6260	42.33	35.90	10.03	52.36	45.93	56.00	46.00	-3.64	-0.07	Pass
5	0.6780	41.19	27.45	10.03	51.22	37.48	56.00	46.00	-4.78	-8.52	Pass
6	1.3180	33.96	23.02	10.04	44.00	33.06	56.00	46.00	-12.00	-12.94	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 :

_imit	Shall be at least 500kHz
-------	--------------------------

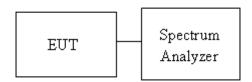
Occupied Bandwidth(99%) : For reporting purposes only.

4.2.2 Test Procedure

Test method Refer as KDB 558074 D01 and ANSI C63.10: 2013 clause 6.9.2.

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT.
- 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



4.2.4 Test Result

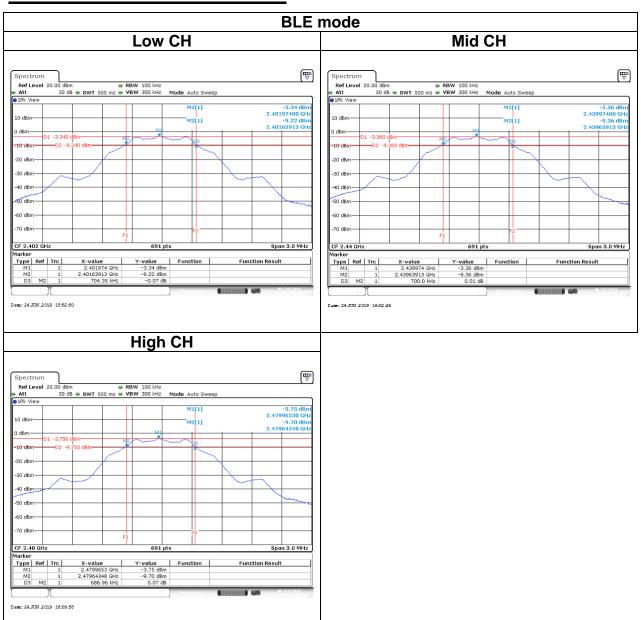
Test mode: BLE mode / 2402-2480 MHz							
Channel Frequency OBW (99%) 6dB BW 6c (MHz) (MHz)							
Low	2402	1.0506	0.7043				
Mid	2440	1.0549	0.7000	>500			
High	2480	1.0506	0.6869				



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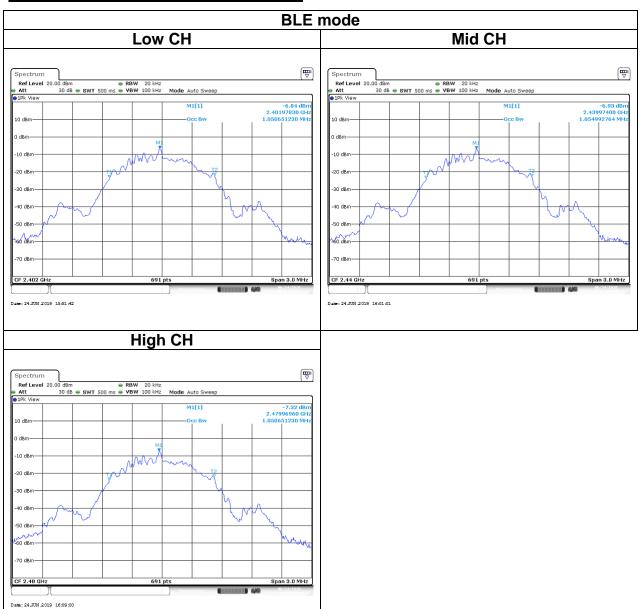
6dB BANDWIDTH Test Data





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BANDWIDTH (99%) Test Data





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4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.247(b)(3).

Peak output power:

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt(30 dBm), base on the use of antennas with directional gain not exceed 6 dBi If transmitting antennas of directional gain greater than 6dBi are used the peak output power the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

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

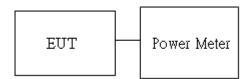
<u>Average output power</u>: For reporting purposes only.

4.3.2 Test Procedure

Test method Refer as KDB 558074 D01.

- 1. The EUT RF output connected to the power meter by RF cable.
- 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

Peak output power:

BLE Mode									
Config.	onfig. CH Freq. (MHz) Power PK Power Power (dBm) (W)								
BLE	0	2402	Default	10.15	0.0104				
Data rate:	19	2440	Default	10.12	0.0103	30			
1Mbps	39	2480	Default	9.66	0.0092				

Average output power:

BLE Mode						
Config.	СН	Freq. (MHz)	AV Power (dBm)			
BLE	0	2402	10.05			
Data rate:	19	2440	9.94			
1Mbps	39	2480	9.44			



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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.

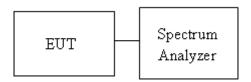
Limit	 ✓ Antenna not exceed 6 dBi : 8dBm ☐ Antenna with DG greater than 6 dBi [Limit = 8 - (DG - 6)] ☐ Point-to-point operation :
-------	---

4.4.2 Test Procedure

Test method Refer as KDB 558074 D01.

- 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 = 30kHz, 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



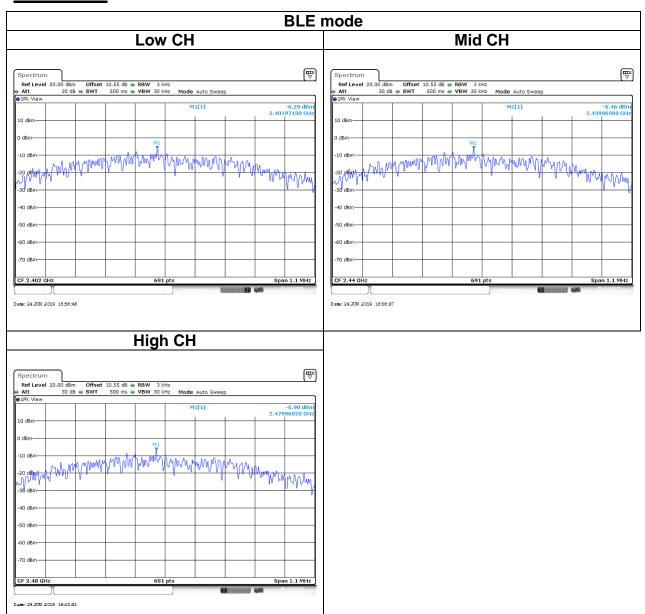
4.4.4 Test Result

Test mode: BLE mode / 2402-2480 MHz						
Channel Frequency (MHz) PSD (dBm) FCC limit (dBm)						
Low	2402	-6.29				
Mid	2440	-6.46	8			
High	2480	-6.90				



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Test Data





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4.5 CONDUCTED BAND EDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.247(d),

In any 100 kHz bandwidth outside the authorized frequency band,

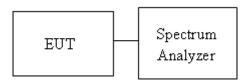
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

4.5.2 Test Procedure

Test method Refer as KDB 558074 D01.

- 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

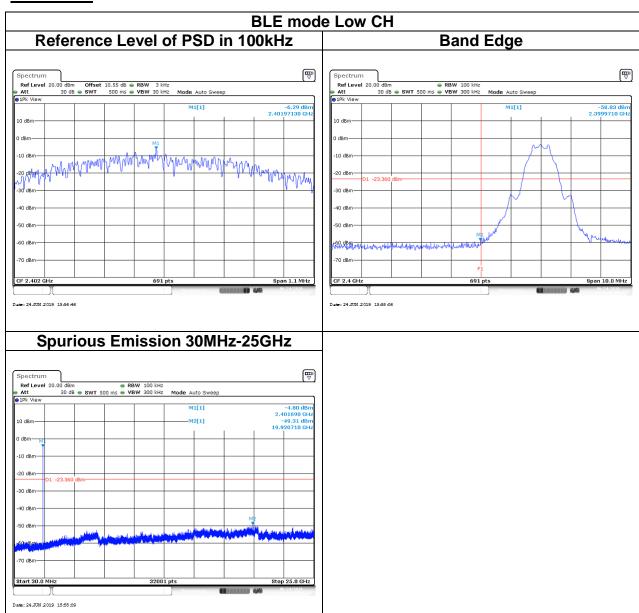




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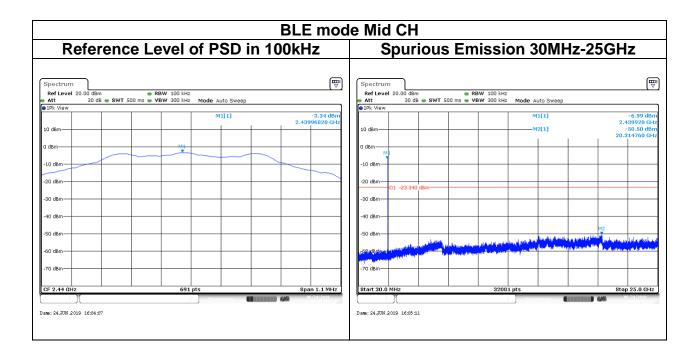
4.5.4 Test Result

Test Data





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Date: 24.JUN 2019 16:12:34

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BLE mode High CH Reference Level of PSD in 100kHz **Band Edge** Ref Level 20.00 dBm Att 30 dB Mode Auto Sweep Mode Auto Sweep -10 dBm -10 dBm -40 dBm -70 dBm -70 dBm Date: 24.JUN 2019 16:11:07 Date: 24.JUN 2019 16:15:40 **Spurious Emission 30MHz-25GHz** Spectrum -20 dBm--50 dBm 70 dBm-



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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)		
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 metres (watts, e.i.r.p.)				
(MHz)	Transmitters Receive				
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 KDB 558074 D01.

- 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.
- 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.

Configuration	Duty Cycle (%)	T(ms)	1/T (kHz)	VBW Setting	
BLE	62.67%	0.3917	2.553	2.7kHz	

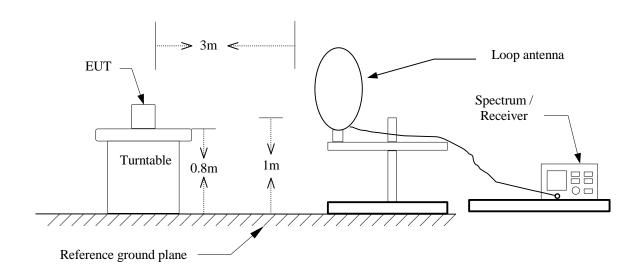
Remark:

- 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 (9kHz~30MHz).

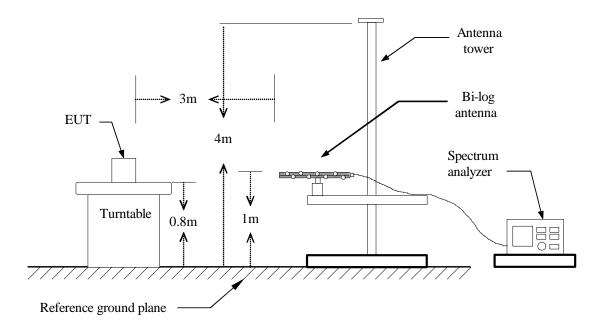


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4.6.3 Test Setup <u>9kHz ~ 30MHz</u>



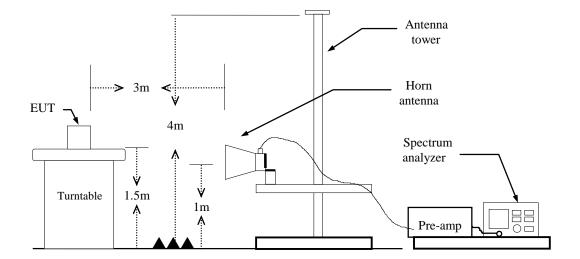
<u>30MHz ~ 1GHz</u>





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Above 1 GHz



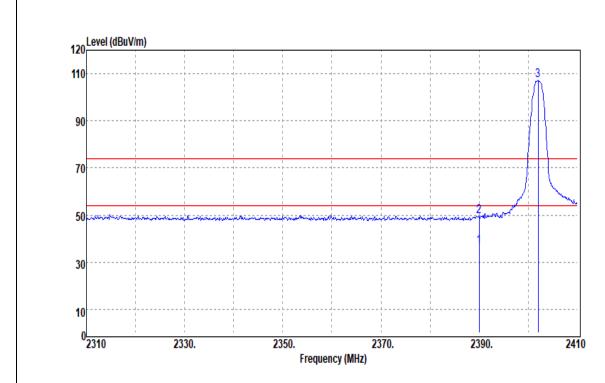


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4.6.4 Test Result

Band Edge Test Data

Test Mode:	BLE Low CH	Temp/Hum	22(°C)/ 54%RH
Test Item	Band Edge	Test Date	June 13, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		

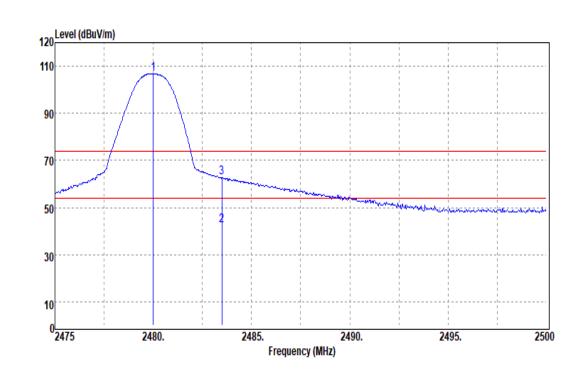


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390.00	39.73	-3.38	36.35	54.00	-17.65	Average
2390.00	52.76	-3.38	49.38	74.00	-24.62	Peak
2402.00	110.38	-3.41	106.97	1	-	Peak



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Test Mode:	BLE High CH	Temp/Hum	22(°C)/ 54%RH
Test Item	Band Edge	Test Date	June 13, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		



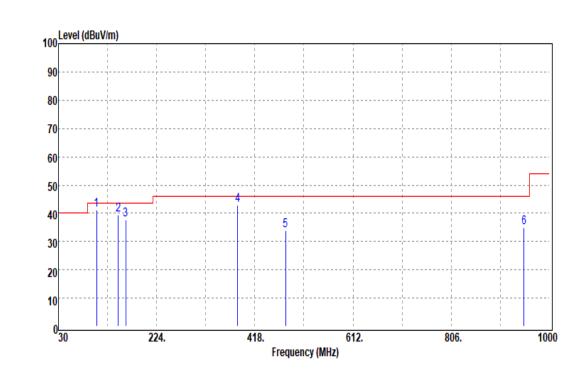
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2480.00	109.72	-2.86	106.86	-	-	Peak
2483.50	45.16	-2.83	42.33	54.00	-11.67	Average
2483.50	65.52	-2.83	62.69	74.00	-11.31	Peak



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Below 1G Test Data

Test Mode:	BLE Mode	Temp/Hum	23(°C)/ 55%RH
Test Item	30MHz-1GHz	Test Date	June 13, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

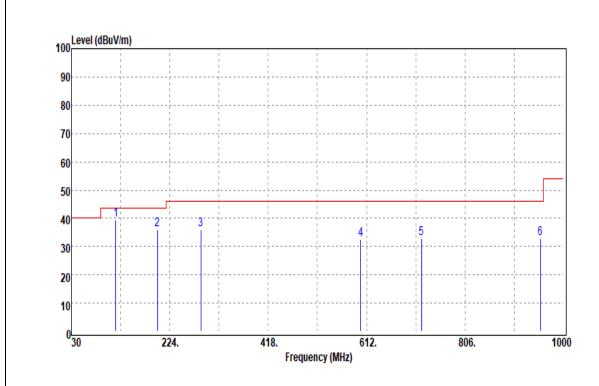


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
105.66	52.07	-11.02	41.05	43.50	-2.45	Peak
148.34	49.69	-10.10	39.59	43.50	-3.91	Peak
162.89	47.98	-10.18	37.80	43.50	-5.70	Peak
384.05	49.13	-6.24	42.89	46.00	-3.11	Peak
479.11	37.03	-2.98	34.05	46.00	-11.95	Peak
949.56	30.85	4.02	34.87	46.00	-11.13	Peak



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Test Mode:	BLE Mode	Temp/Hum	23(°C)/ 55%RH
Test Item	30MHz-1GHz	Test Date	June 13, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



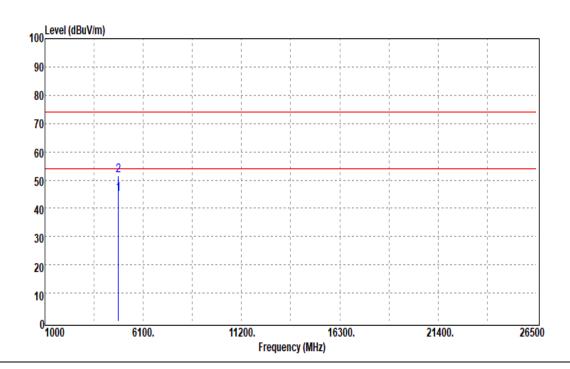
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
117.30	48.49	-9.02	39.47	43.50	-4.03	Peak
199.75	45.25	-9.29	35.96	43.50	-7.54	Peak
285.11	44.43	-8.46	35.97	46.00	-10.03	Peak
600.36	34.30	-1.65	32.65	46.00	-13.35	Peak
720.64	32.15	0.58	32.73	46.00	-13.27	Peak
954.41	28.80	4.23	33.03	46.00	-12.97	Peak



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Above 1G Test Data

Test Mode:	BLE Low CH	Temp/Hum	23(°C)/ 55%RH
Test Item	Harmonic	Test Date	June 13, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		



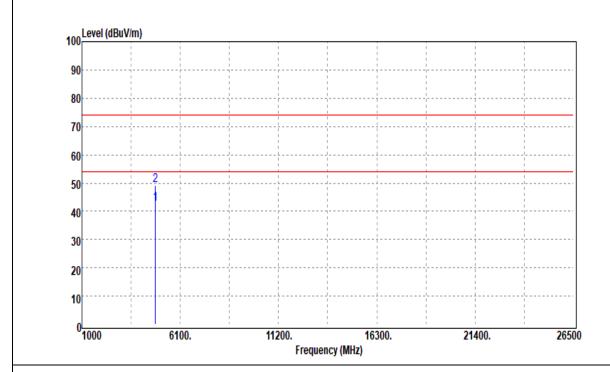
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804.00	42.18	2.84	45.02	54.00	-8.98	Average
4804.00	48.58	2.84	51.42	74.00	-22.58	Peak
N/A						

Remark:



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Test Mode:	BLE Low CH	Temp/Hum	23(°C)/ 54%RH
Test Item	Harmonic	Test Date	June 13, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		



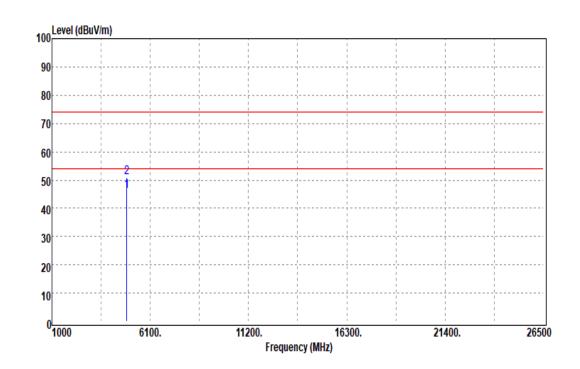
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4804.00	39.78	2.84	42.62	54.00	-11.38	Average
4804.00	46.15	2.84	48.99	74.00	-25.01	Peak
N/A						

Remark:



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Test Mode:	BLE Mid CH	Temp/Hum	23(°C)/ 54%RH
Test Item	Harmonic	Test Date	June 13, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak and Average		



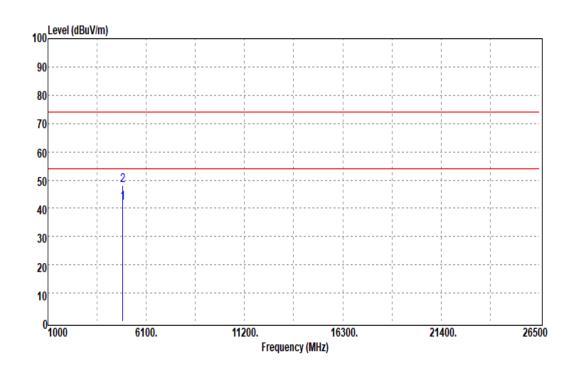
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4880.00	43.16	3.02	46.18	54.00	-7.82	Average
4880.00	47.95	3.02	50.97	74.00	-23.03	Peak
N/A						

Remark:



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Test Mode:	BLE Mid CH	Temp/Hum	22(°C)/ 54%RH
Test Item	Harmonic	Test Date	June 13, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak and Average		



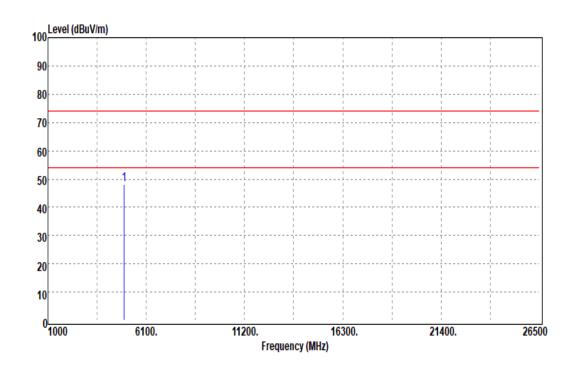
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4880.00	38.79	3.02	41.81	54.00	-12.19	Average
4880.00	44.93	3.02	47.95	74.00	-26.05	Peak
N/A						

Remark:



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Test Mode:	BLE High CH	Temp/Hum	22(°C)/ 54%RH	
Test Item	Harmonic	Test Date	June 13, 2019	
Polarize	Vertical	Test Engineer	Dally Hong	
Detector	Peak			



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4960.00	44.16	3.85	48.01	74.00	-25.99	Peak
N/A						

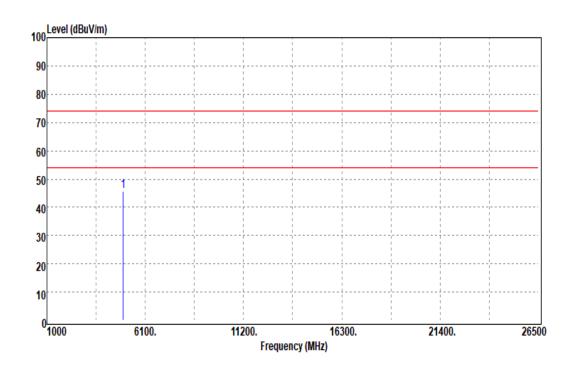
Remark:

- 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



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Test Mode:	BLE High CH	Temp/Hum	23(°C)/ 55%RH
Test Item	Harmonic	Test Date	June 13, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4960.00	41.74	3.85	45.59	74.00	-28.41	Peak
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