

Shenzhen Toby Technology Co., Ltd.

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FCC Radio Test Report FCC ID: 2ABES-KR2109

Original Grant

Report No.	: TB-FCC169700			
Applicant	Pathway Innovations and Technologies, Inc.			
Equipment Under	Test (EUT)			
EUT Name	: Ultra10			
Model No.	: KR2109			
Serial Model No.	: Ultra9,Ultra10,Ultra11,Ultra12,Ultra13,Ultra15,Ultra16			
Brand Name	: HoverCam			
Receipt Date	: 2019-10-18			
Test Date	: 2019-10-18 to 2019-11-25			
Issue Date	: 2020-01-02			
Standards	: FCC Part 15: 2019, Subpart C(15.247)			
Test Method	: ANSI C63.10: 2013			
Conclusions	: PASS			
	In the configuration tested, the EUT complied with the standards specified above,			
Test/Witness	: Galen CELHADGER			

Test/Witness Engineer Engineer Supervisor

Engineer Manager



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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Revision History

Report No.	Version	Description	Issued Date
TB-FCC169700	Rev.01	Initial issue of report	2020-01-03
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1. General Information about EUT

1.1 Client Information

	-		
Applicant		Pathway Innovations and Technologies, Inc.	
Address		9985 Pacific Heights Blvd., Suite 100 San Diego, CA 92121, USA	
Manufacturer	-	ShenZhen KerunVisual Technology Co., LTD.	
Address		Jnit A, F/11, Bldg.1, Senyang Electronic Technology Park, Tianliao Community, Guangming High Tech Zone, Guangming New District, Shenzhen, China 518132	

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Ultra10		
Models No.		KR2109,Ultra9,Ultra10,Ultra11,Ultra12,Ultra13,Ultra15,Ultra16		
Model Difference	:	All these models are in the same PCB, layout and electrical circuit, the only difference is model No.		
		Operation Frequency:	Bluetooth 4.1(BLE): 2402MHz~2480MHz	
		Number of Channel:	Bluetooth 4.1(BLE): 40 channels see note(3)	
Product		RF Output Power:	BLE: -0.977dBm	
Description	i	Antenna Gain:	0.5dBi Wire Antenna	
		Modulation Type:	GFSK	
		Bit Rate of Transmitter:	1Mbps(GFSK)	
Power Supply	:	AC Adapter(JHD-AP045U-PD-CS502): Input: AC 100-240V, 50/60Hz, 1.5A Output: DC 5V, 3A/9V-3A/12V-3A/15V-3A/20V-2.25A DC 3.8V by 12000mAh Li-ion battery.		
Software Version		Android 7.1.2		
Hardware Version	÷	V0.7		
Connecting I/O Port(S)		Please refer to the User's Manual		
Remark	i	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.		

Note:

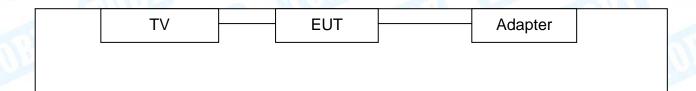
This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v05.



- (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (2) Antenna information provided by the applicant.
- (3) Channel List:

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

1.3 Block Diagram Showing the Configuration of System Tested





1.4 Description of Support Units

	Equipment Information					
Name	Model	S/N	Manufacturer	Used "√"		
TV	24PFL3545/T3	Wj1a1405000189	PHILIPS	\checkmark		
Cable Inforn	Cable Information					
Number	Shielded Type	Ferrite Core	Length	Note		

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test		
Final Test Mode Description		
Mode 1 TX Mode (Channel 20)		

For Radiated Test			
Final Test Mode	Description		
Mode 1	Normal Working+ TX Mode (Channel 20)		
Mode 2	Normal Working+ TX Mode (Channel 00/20/39)		

Note:

(1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

BLE Mode: GFSK Modulation Transmitting mode.

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.



1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of RF setting.

Test Software Version	RFTestTool.exe		
Frequency	2402 MHz	2442MHz	2480 MHz
BLE GFSK	DEF	DEF	DEF

1.7 Measurement Uncertainty

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U _{Lab})
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Dedicted Emission	Level Accuracy:	
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Dedicted Emission	Level Accuracy:	
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Dedicted Emission	Level Accuracy:	
Radiated Emission	Above 1000MHz	±4.20 dB



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1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at:1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

TOBY

2. Test Summary

Standard Section				
FCC	IC	- Test Item	Judgment	Remark
15.203		Antenna Requirement	PASS	N/A
15.207(a)	RSS-GEN 7.2.4	Conducted Emission	PASS	N/A
15.205&15.247(d)	RSS-GEN 7.2.2	Band-Edge & Unwanted Emissions into Restricted Frequency	PASS	N/A
15.247(a)(2)	RSS 247 5.2 (1)	6dB Bandwidth	PASS	N/A
15.247(b)(3)	RSS 247 5.4 (4)	Conducted Max Output Power	PASS	N/A
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A
15.205, 15.209&15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious &Unwanted Emissions into Restricted Frequency	PASS	N/A

Note: (1)"/" for no requirement for this test item.(2)N/A is an abbreviation for Not Applicable. (3)All tests were conducted using the adapter and antenna gain provided by the applicant, The laboratory tests only according to the information provided by the applicant.

Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0



3. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 13, 2019	Jul. 12, 2020
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 13, 2019	Jul. 12, 2020
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 13, 2019	Jul. 12, 2020
LISN	Rohde & Schwarz	ENV216	101131	Jul. 13, 2019	Jul. 12, 2020
Radiation Emissio	n Test	÷		-	-
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	FSVR	1311.006K40-10094 5-DH	Feb. 10, 2019	Feb. 09, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Jan. 27, 2019	Jan. 26, 2020
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Jan. 27, 2019	Jan. 26, 2020
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar.03, 2019	Mar. 02, 2020
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.03, 2019	Mar. 02, 2020
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 13, 2019	Jul. 12, 2020
Pre-amplifier	Sonoma	310N	185903	Mar.04, 2019	Mar. 03, 2020
Pre-amplifier	HP	8449B	3008A00849	Mar.03, 2019	Mar. 02, 2020
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Jul. 27, 2019	Jul. 26, 2020
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar.03, 2019	Mar. 02, 2020
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A

Antenna Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 13, 2019	Jul. 12, 2020
Spectrum Analyzer	Rohde & Schwarz	ESCI	100010/007	Jul. 13, 2019	Jul. 12, 2020
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 16, 2019	Sep. 15, 2020
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 16, 2019	Sep. 15, 2020
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO33	Sep. 16, 2019	Sep. 15, 2020



4. Conducted Emission Test

- 4.1 Test Standard and Limit
 - 4.1.1Test Standard FCC Part 15.207
 - 4.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

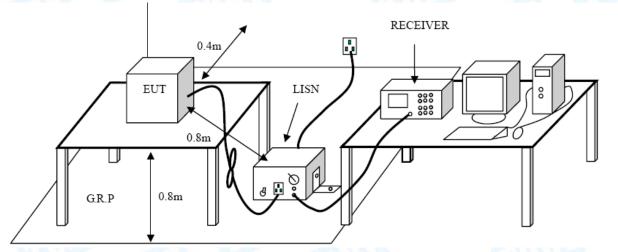
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.



I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9 kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Da5ta

Please refer to the Attachment A.



5. Radiated Emission Test

- 5.1 Test Standard and Limit
 - 5.1.1 Test Standard
 - FCC Part 15.247(d)
 - 5.1.2 Test Limit

Radiated Emission Limits (9kHz~1000MHz)

Frequency (MHz	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Radiated Emission Limit (Above 1000MHz)

Distance Met	ers(at 3m)
Peak (dBuV/m)	Average (dBuV/m)
74	54
	Peak (dBuV/m)

Note:

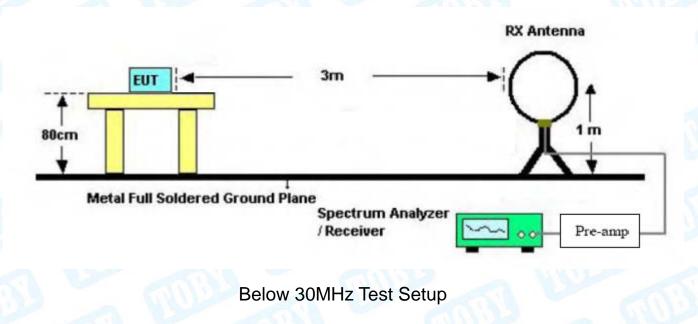
(1) The tighter limit applies at the band edges.

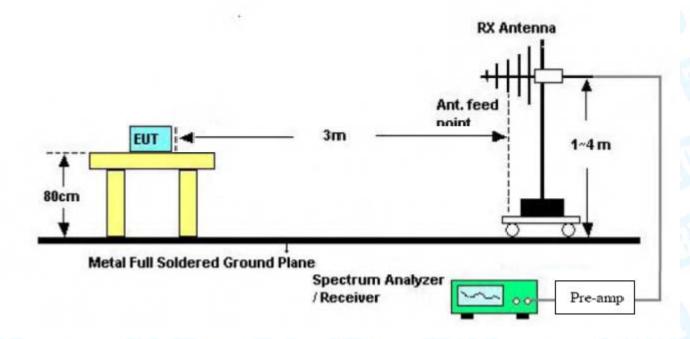
(2) Emission Level (dBuV/m)=20log Emission Level (uV/m)



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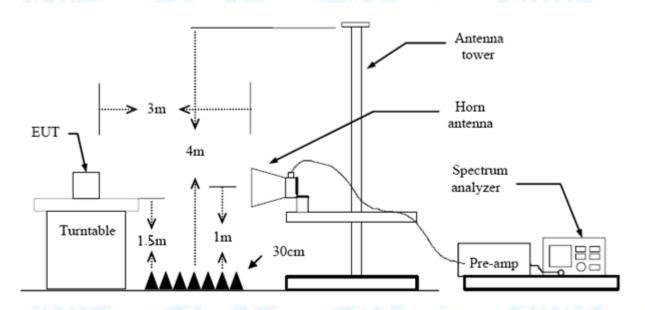
5.2 Test Setup





Below 1000MHz Test Setup





Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



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5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

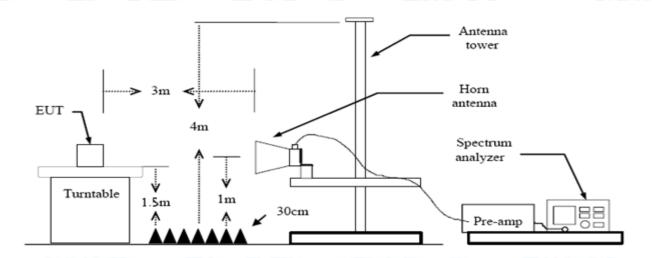


6. Restricted Bands Requirement

- 6.1 Test Standard and Limit
 - 6.1.1 Test Standard
 - FCC Part 15.247(d) FCC Part 15.205
 - 6.1.2 Test Limit

Restricted Frequency	Distance Me	eters(at 3m)
Band (MHz)	Peak (dBuV/m)	Average (dBuV/m)
2310 ~2390	74	54
2483.5 ~2500	74	54

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector



mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values. Please refer to the Attachment C.

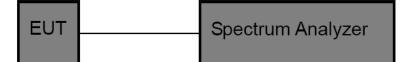


7. Bandwidth Test

- 7.1 Test Standard and Limit
 - 7.1.1 Test Standard FCC Part 15.247 (a)(2)
 - 7.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247			
Test Item	Limit	Frequency Range(MHz)	
Bandwidth	>=500 KHz (6dB bandwidth)	2400~2483.5	

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (3)Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:100 kHz, and Video Bandwidth:300 kHz, Detector: Peak, Sweep Time set auto.

7.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

7.5 Test Data

Please refer to the Attachment D.

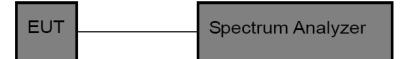


8. Peak Output Power Test

- 8.1 Test Standard and Limit
 - 8.1.1 Test Standard
 - FCC Part 15.247 (b)(3)
 - 8.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247			
Test Item	Limit	Frequency Range(MHz)	
Peak Output Power	1 Watt or 30 dBm	2400~2483.5	

8.2 Test Setup



8.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to section 9.1.1 of KDB 558074 D01 DTS Meas Guidance v05.

- (1) Set the RBW≥DTS Bandwidth
- (2) Set VBW≥3*RBW
- (3) Set Span≥3*RBW
- (4) Sweep time=auto
- (5) Detector= peak
- (6) Trace mode= maxhold.
- (7) Allow trace to fully stabilize, and then use peak marker function to determine the peak amplitude level.

8.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

8.5 Test Data

Please refer to the Attachment E.

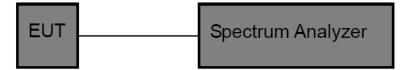


9. Power Spectral Density Test

- 9.1 Test Standard and Limit
 - 9.1.1 Test Standard FCC Part 15.247 (e)
 - 9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)			
Test Item	Limit	Frequency Range(MHz)	
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5	

9.2 Test Setup



9.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser center frequency to DTS channel center frequency.
- (3) Set the span to 1.5 times the DTS bandwidth.
- (4) Set the RBW to: 3 kHz
- (5) Set the VBW to: 10 kHz
- (6) Detector: peak
- (7) Sweep time: auto
- (8) Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

9.4 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

9.5 Test Data

Please refer to the Attachment F.



10. Antenna Requirement

10.1 Standard Requirement

10.1.1 Standard

FCC Part 15.203

10.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 0.5dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

10.3 Result

The EUT antenna is a Wire Antenna. It complies with the standard requirement.

Antenna Type		
Permanent attached antenna	20	
Unique connector antenna		
Professional installation antenna	1 mnb	

Attachment A-- Conducted Emission Test Data

TOBY

Temperature:	25 ℃		Relative H	lumidity:	55%	
Test Voltage:	AC 120V 60H	lz	2			
Terminal:	Line		6.6.7			
Test Mode:	Mode 1	<u>a. N.S.</u>		-		-
Remark:	Only worse ca	ase is reporte	d	(AD)	2	
	Mar	Mapay manuter man	when when we			QP:
0.150	0.5 Reading		Measure-	5 Limit	Over	30.000
0.150 No. Mk. F					Over	30.000
0.150 No. Mk. Fi	Reading req. Level	Correct Factor	Measure- ment	Limit dBuV		
0.150 No. Mk. Fi M 1 0.1	Reading req. Level IHz dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV 64.96	dB	Detector
0.150 No. Mk. Fi M 1 0.1 2 0.1	Reading req. Level 1Hz dBuV 700 22.94	dB 9.71	Measure- ment dBuV 32.65	Limit dBuV 64.96 54.96	dB -32.31	Detector QP
0.150 No. Mk. Fi 1 0.1 2 0.1 3 0.1	Reading Level 1Hz dBuV 700 22.94 700 9.86	g Correct Factor dB 9.71 9.71	Measure- ment dBuV 32.65 19.57	Limit dBuV 64.96 54.96 63.69	dB -32.31 -35.39	Detector QP AVG
0.150 No. Mk. Fi 1 0.1 2 0.1 3 0.1 4 0.1	Reading req. Level 1Hz dBuV 700 22.94 700 9.86 980 33.00	9 Correct Factor dB 9.71 9.71 9.72	Measure- ment dBuV 32.65 19.57 42.72	Limit dBuV 64.96 54.96 63.69 53.69	dB -32.31 -35.39 -20.97	Detector QP AVG QP
0.150 No. Mk. Fl M 1 0.1 2 0.1 3 0.1 3 0.1 4 0.1 5 0.2	Reading IHz dBuV 700 22.94 700 9.86 980 33.00 980 21.04	Correct Factor dB 9.71 9.71 9.72 9.72	Measure- ment dBuV 32.65 19.57 42.72 30.76	Limit dBuV 64.96 54.96 63.69 53.69 61.36	dB -32.31 -35.39 -20.97 -22.93	Detector QP AVG QP AVG
0.150 No. Mk. Fl M 1 0.1 2 0.1 3 0.1 3 0.1 4 0.1 5 0.2 6 0.2	Reading IHz dBuV 700 22.94 700 9.86 980 33.00 980 21.04 620 26.64	Correct Factor dB 9.71 9.71 9.72 9.72 9.72 9.72	Measure- ment dBuV 32.65 19.57 42.72 30.76 36.36	Limit dBuV 64.96 54.96 63.69 53.69 61.36 51.36	dB -32.31 -35.39 -20.97 -22.93 -25.00	Detector QP AVG QP AVG QP
0.150 No. Mk. Fl M 1 0.1 2 0.1 3 0.1 3 0.1 4 0.1 5 0.2 6 0.2 7 0.8	Reading IHz dBuV 700 22.94 700 9.86 980 33.00 980 21.04 620 26.64 620 14.82	Correct Factor dB 9.71 9.71 9.72 9.72 9.72 9.72 9.72 9.72	Measure- ment dBuV 32.65 19.57 42.72 30.76 36.36 24.54	Limit dBuV 64.96 54.96 63.69 53.69 61.36 51.36 51.36	dB -32.31 -35.39 -20.97 -22.93 -25.00 -26.82	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. Fl No. Mk. Fl No. Mk. Fl No. Mk. Fl No. 1 0.1 2 0.1 3 0.1 3 0.1 3 0.1 3 0.1 3 0.1 5 0.2 6 0.2 7 0.8 8 0.8	Reading Level IHz dBuV 700 22.94 700 9.86 980 33.00 980 21.04 620 26.64 620 14.82 500 24.09	Correct Factor dB 9.71 9.71 9.72 9.72 9.72 9.72 9.72 9.72 9.72 9.72	Measure- ment dBuV 32.65 19.57 42.72 30.76 36.36 24.54 33.92	Limit dBuV 64.96 54.96 63.69 53.69 61.36 51.36 51.36 56.00 46.00	dB -32.31 -35.39 -20.97 -22.93 -25.00 -25.00 -26.82 -22.08	Detector QP AVG QP AVG QP AVG QP
0.150 No. Mk. Fill 1 0.1 2 0.1 3 0.1 4 0.1 5 0.2 6 0.2 7 0.8 8 0.8 9 1.8	Reading Level IHz dBuV 700 22.94 700 9.86 980 33.00 980 21.04 620 26.64 620 14.82 500 24.09	Correct Factor dB 9.71 9.71 9.72 9.72 9.72 9.72 9.72 9.72 9.72 9.83 9.83	Measure- ment dBuV 32.65 19.57 42.72 30.76 36.36 24.54 33.92 22.45	Limit dBuV 64.96 54.96 63.69 53.69 61.36 51.36 51.36 56.00 46.00	dB -32.31 -35.39 -20.97 -22.93 -25.00 -25.00 -26.82 -22.08 -23.55	Detector QP AVG QP AVG QP AVG QP AVG
0.150 No. Mk. Fill 1 0.1 2 0.1 3 0.1 4 0.1 5 0.2 6 0.2 7 0.8 8 0.8 9 1.8	Reading Level IHz dBuV 700 22.94 700 9.86 980 33.00 980 21.04 620 26.64 620 14.82 500 24.09 500 21.23 500 10.03	Correct Factor dB 9.71 9.71 9.72 9.72 9.72 9.72 9.72 9.72 9.72 9.83 9.83 9.83 9.86	Measure- ment dBuV 32.65 19.57 42.72 30.76 36.36 24.54 33.92 22.45 31.09	Limit dBuV 64.96 54.96 63.69 53.69 61.36 51.36 51.36 56.00 46.00	dB -32.31 -35.39 -20.97 -22.93 -25.00 -26.82 -22.08 -23.55 -24.91	Detector QP AVG QP AVG QP AVG QP AVG QP



Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V 60Hz		
Terminal:	Neutral		
Test Mode:	Mode 1	1.2	mul
Remark:	Only worse case is report	rted	
	MM MANA MANA MANA MANA MANA MANA MANA M		AVG:
-10 0.150	0.5 (MH	z] 5	30.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2100	31.38	9.69	41.07	63.20	-22.13	QP
2		0.2100	24.17	9.69	33.86	53.20	-19.34	AVG
3		0.2779	25.38	9.70	35.08	60.88	-25.80	QP
4		0.2779	15.96	9.70	25.66	50.88	-25.22	AVG
5		0.8540	23.70	9.74	33.44	56.00	-22.56	QP
6		0.8540	11.88	9.74	21.62	46.00	-24.38	AVG
7		1.6860	20.48	9.86	30.34	56.00	-25.66	QP
8		1.6860	11.35	9.86	21.21	46.00	-24.79	AVG
9		6.0179	23.57	9.84	33.41	60.00	-26.59	QP
10		6.0179	14.45	9.84	24.29	50.00	-25.71	AVG
11		16.5099	33.23	9.98	43.21	60.00	-16.79	QP
12	*	16.5099	25.25	9.98	35.23	50.00	-14.77	AVG



Attachment B-- Radiated Emission Test Data

9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB Below the permissible value has no need to be reported.

30MHz~1GHz

emperature:	25℃	Relative H	lumidity:	55%
est Voltage:	AC 120V 60Hz	an is D	- 5	NUL ST
nt. Pol.	Horizontal		SIL V	
est Mode:	Mode 1		11.0	
emark:	Only worse case	s reported	-	
30.0 dBuV/m				
30		wanth		15C 3M Radiation Margin -5 dB
20	60 70	(MHz)	300 400	500 600 700 1000.

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		251.1804	53.14	-17.16	35.98	46.00	-10.02	QP
2	*	339.5888	58.63	-14.92	43.71	46.00	-2.29	QP
3		401.8385	46.82	-12.26	34.56	46.00	-11.44	QP
4		502.9395	39.01	-10.52	28.49	46.00	-17.51	QP
5		750.1083	39.04	-6.57	32.47	46.00	-13.53	QP
6		881.4067	38.42	-4.31	34.11	46.00	-11.89	QP

*:Maximum data x:Over limit !:over margin



T	25 ℃	Deletiv		55%
Temperature:		Relativ	e Humidity:	55%
Test Voltage:	AC 120V 60Hz			
Ant. Pol.	Vertical			
Test Mode:	Mode 1	- CUID-2		MUL
Remark:	Only worse case i	s reported		
80.0 dBuV/m		2 mm Mm M	(RF)FCI	C 15C 3M Radiation Margin -5 dB
30.000 40 50		(MHz)	300 400	500 600 700 1000.000
No. Mk. F	Reading req. Level		asure- ent Limit	Over
N	IHz dBu∨	dB/m dB	uV/m dBuV/r	m dB Detector
1 47.3	3255 52.94	-22.35 30	0.59 40.00) -9.41 QP
2 167.	.2368 46.01	-20.62 25	5.39 43.50) -18.11 QP
3 251.	.1804 53.14	-17.16 3	5.98 46.00	0 -10.02 QP
4 * 339.	.5888 58.63	-14.92 43	3.71 46.00) -2.29 QP
5 401	.8385 46.82	-12.26 34	4.56 46.00) -11.44 QP
0 101.	.0000 40.02	12.20	1.50 40.00	-11.11 Ga

*:Maximum data x:Over limit !:over margin

Above 1GHz

empe	eratur	e:	25 ℃		5		Rela	ative	Humidity:	55%	
'est V	/oltage) :	AC 1	20V 60H	ΗZ	2			UP		
Ant. P	Pol.		Horiz	ontal		-	12	1	1	an'	
est N	/lode:		BLE	Mode T	X 24	02 MHz	N/S		-	N.S.	
Rema	rk:			port for ribed lir		emission	which	more	than 10 dB	below the	
100.0	dBuV/m										
									(RF) FCC	PART 15C (PEA	K)
		1 X							(RF) FCC	PART 15C (AV	G)
50		2 X									
		^									
0.0 1000.	.000 3550	0.00 6	100.00	8650.00	1120	10.00 13750	.00 163	00.00	18850.00 2140	0.00 :	26500.00 MH
				Readi	na	Correct	Me	asure	-		
No	. Mk.	Fr	eq.	Leve		Factor		nent	Limit	Over	
		M	Ηz	dBu∖	/	dB/m	dE	3uV/m	dBuV/m	dB	Detecto
1		4803	.006	44.3	0	13.44	5	7.74	74.00	-16.26	peak
2	*	4804	.088	30.3	9	13.44	4	3.83	54.00	-10.17	AVG



Гem	peratur	e:	25 ℃			Relative Hu	umidity:	55%	
Fest	Voltage	e:	AC 12	20V 60HZ		5	C(D)		A
۹nt.	Pol.		Vertic	al				-	
Fest	Mode:		BLE I	Mode TX 24	102 MHz			0005	1
Rem	ark:			port for the ribed limit.	emission	which more t	han 10 dE	3 below the	1
100.0	dBu∀/m								
							(RF) FC	C PART 15C (PEA	K)
-		1 X					(RF) F	CC PART 15C (AV	G)
50		2 X							
		×							
0.0									
L	00.000 3550).00 6	100.00	8650.00 112	200.00 13750).00 16300.00	18850.00 21	400.00	26500.00 MH
				Reading	Correc	t Measure			
Ν	o. Mk.	Fre	eq.	Level	Factor		Limit	Over	
		MF	lz	dBuV	dB/m	dBuV/m	dBuV/r	m dB	Detector
1		4803.	282	43.91	13.44	57.35	74.00	0 -16.65	peak
2	*	4803.	822	30.69	13.44	44.13	54.00	-9.87	AVG

TB-RF-074-1.0



Tem	peratur	e:	25 ℃			Relative I	Humidity:	55%					
Test	t Voltag	e:	AC 1	20V 60HZ		6	JUDE	2					
Ant.	Pol.		Horiz	ontal			1	200	2.0				
Test	Mode:		BLE I	Mode TX 2	442 MHz			TUP-					
Ren	nark:			port for the tribed limit.	emission v	which more	than 10 dB) dB below the					
100.0) dBuV/m												
							(RF) FCC I	PART 15C (PEA	K)				
		2 X					(RF) FCC	PART 15C (AV	G)				
50		1											
		×											
0.0													
10	00.000 355	0.00 6	100.00	8650.00 11	200.00 13750.0	00 16300.00	18850.00 2140	D. 00	26500.00 MHz				
				Reading	Correct	Measure	-						
Ν	o. Mk.	Fre	q.	Level	Factor	ment	Limit	Over					
		MH	Z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector				
1	*	4883.	722	30.32	13.92	44.24	54.00	-9.76	AVG				
2		4884.	716	43.49	13.92	57.41	74.00	-16.59	peak				



Tem	peratu	re:	25° ℃		N	Relative Hu	umidity:	55%	
Test	Voltag	e:	AC 12	20V 60HZ		6	M DE		
Ant.	Pol.		Vertic	al				-	2.0
Test	Mode:		BLE N	Mode TX 24	42 MHz			2012	
Rem	ark:			port for the ribed limit.	emission v	vhich more th	an 10 dB	below the	1
100.0	dBuV/m								
							(RF) FCC	PART 15C (PEA	K)
-									
_		2 X					(RF) FCC	PART 15C (AV	G)
50		1 X							
-									
_									
0.0									
100	0.000 355	0.00 61	00.00	8650.00 112	00.00 13750.0	0 16300.00 18	850.00 2140	0.00	26500.00 MHz
				Reading	Correct	Measure-			
N	o. Mk	. Fre	eq.	Level	Factor	ment	Limit	Over	
		MF	Iz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4883.	120	30.39	13.91	44.30	54.00	-9.70	AVG
2		4884.	106	43.83	13.92	57.75	74.00	-16.25	peak



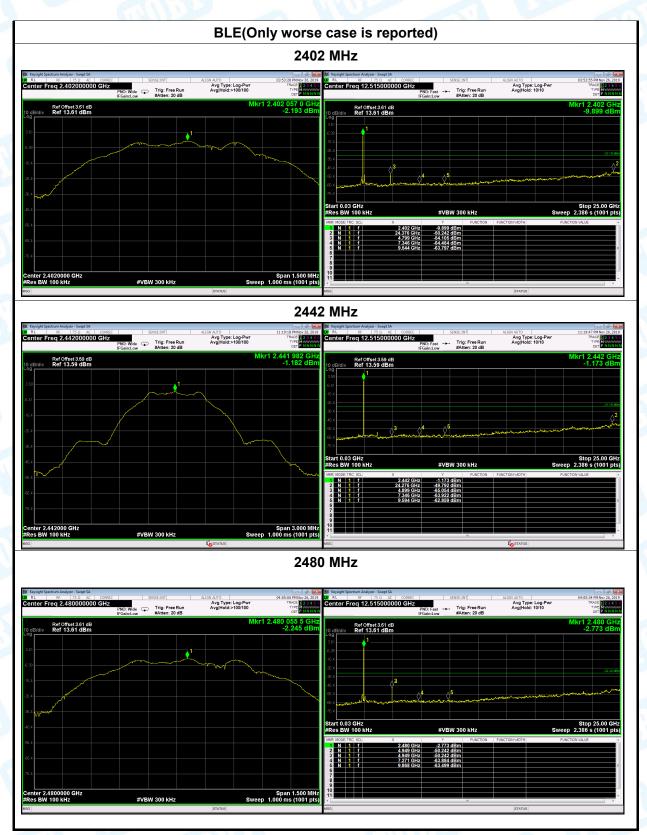
Гетр	peratu	re:	25° ℃			Relative H	umidity:	55%	
Test \	Voltag	e:	AC 1	20V 60HZ		50		2	
Ant. I	Pol.		Horiz	ontal	-			-	
Fest	Mode:		BLE	Mode TX 24	180 MHz			CO DE	
Rema	ark:			eport for the cribed limit.	emission v	which more th	an 10 dB l	below the	-
100.0	dBuV/m								
							(RF) FCC F	PART 15C (PEAK	9
-		1 X					(RF) FCC	PART 15C (AVC	i)
50		2 X							
		Ŷ							
0.0									
1000).000 355	0.00 6	100.00	8650.00 112	00.00 13750.0	0 16300.00 18	850.00 21400	0.00 2	26500.00 MH
				Reading	Correct	Measure-			
No	o. Mk	. Fre	eq.	Level	Factor	ment	Limit	Over	
		MH	łz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto
1		4959.	054	44.33	14.36	58.69	74.00	-15.31	peak
2	*	4960.	168	30.66	14.36	45.02	54.00	-8.98	AVG



Temp	eratu	re:	25° ℃			Relative	Humidity:	55%	
Test \	Voltag	e:	AC 1	20V 60HZ		6	2010	2	2
Ant. F	Pol.		Vertic	cal		3		-	
Test I	Mode:		BLE	Mode TX 24	480 MHz	120		(A) () ()	200
Rema	ark:			eport for the cribed limit.	emission	which more	than 10 dB	below the	-
100.0	dBu∀/m	1							
							(RF) FCC	PART 15C (PEAK	9
		1							
		×					(RF) FCC	PART 15C (AVE	i)
50		2 X							
0.0									
1000.	.000 355	0.00 61	00.00	8650.00 112	00.00 13750.	00 16300.00	18850.00 2140	0.00 2	26500.00 MHz
No	. Mk	. Fre	eq.	Reading Level	Correct Factor		e- Limit	Over	
		MF	z	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.	130	44.51	14.36	58.87	74.00	-15.13	peak
2	*	4959.	306	30.42	14.36	44.78	54.00	-9.22	AVG



Conducted Emission Test Data



Attachment C-- Restricted Bands Requirement and

Band-edge Test Data

(1) Radiation Test

nation rest		2 2		100	6.00	
emperature:	25 ℃		Relat	tive Humidity	: 55%	
fest Voltage:	AC 120V 6	60HZ			2	- 5
nt. Pol.	Horizontal	L'E		NSV-		31.1
est Mode:	BLE Mode	TX 2402 MH	z		Call!	
Remark:	N/A				6.000	-
110.0 dBuV/m						
						4 ×
					RF) FCC PART 150	(DE A3)
					nrj ruu rani Tiju	
60					(RF) FCC PART 15	
					1 X	
					2	$ \left \right $
					2 X	
10.0						
2309.000 2319.00	2329.00 23	339.00 2349.00	2359.00	2369.00 2379.00	2389.00	2409.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	43.02	2.82	45.84	74.00	-28.16	peak
2		2390.000	31.31	2.82	34.13	54.00	-19.87	AVG
3	*	2402.000	72.07	2.87	74.94	Fundamental Frequency		AVG
4	Х	2402.200	91.80	2.87	94.67	Fundamental	Frequency	peak



Tem	peratu	ire:	25 ℃		20	\sim	Re	lative	Hum	nidity:	55%	
Test	Volta	ge:	AC 1	20V 60	HZ		×.		60	IDE		~
Ant.	Pol.		Vertic	cal			~				1	1.1
Test	Mode	:	BLE	Mode T	TX 24	02 MHz		29			MU	
Rem	ark:		N/A		2					12	199	0
100.0	dBu¥/n	1										
												4 X
										(RF) FCC	PART 15C (PR	AK)
												Ň
										(RF) FCC	: PART 15C /	
50											1 X	\square
											2	$' \rightarrow \downarrow$
											¥	
0.0												
	08.000 23	18.00	2328.00	2338.00	0 23	48.00 235	8.00	2368.0	0 23	378.00 2388	.00	2408.00 M
				Read	ding	Corre	ct I	Meas	ure-			
No). Mk.	Fr	eq.	Lev	/el	Facto)r	mer	nt	Limit	Over	
		М	Hz	dBu	١V	dB/m		dBu\	//m	dBuV/m	dB	Detect
1		2390	.000	45.	52	2.82		48.3	34	74.00	-25.6	6 peal
2		2390	.000	31.1	16	2.82		33.9	98	54.00	-20.0	2 AVG
	Х	2402	000	67.	66	2.87		70.4	12	Fundamente	Eroquono	, AVG
3	~	2102	.000	01.0	55	2.07		10.	+2	Fundamenta	Frequency	



Temperature:	25 ℃			Relative	Humidity:	55%	
Test Voltage:	AC 1	20V 60HZ		6	and	1	
Ant. Pol.	Horiz	ontal				200	
Test Mode:	BLE	Mode TX 24	480 MHz			W O S	
Remark:	N/A	-	N.S.S.		12		-5
100.0 dBuV/m							
1 X							
2					(BF) FCC F	PART 15C (PEAI	9
Ň							
	3				(RF) FCC	PART 15C (AVC	3)
50							
""							
0.0							
2469.000 2479.00	2489.00	2499.00 250	19.00 2519.00) 2529.00	2539.00 2549.0	00 2	2569.00 MHz
		Reading	Correct	Measure) -		
No. Mk.	Freq.	Level	Factor	ment	Limit	Over	
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 * 247	79.600	89.99	3.38	93.37	Fundamental	Frequency	peak
	79.800	68.69	3.38	72.07	Fundamental I	Frequency	AVG
3 248	33.500	52.58	3.41	55.99	74.00	-18.01	peak

45.02

54.00

Emission Level= Read Level+ Correct Factor

41.61

3.41

2483.500

4

AVG

-8.98



Cemperature:	25 ℃		R	elative Hum	idity:	55%		
fest Voltage:	AC 12	0V 60HZ		6	III))E		R	
Ant. Pol.	Vertica	al			2	1		
fest Mode:	BLE N	lode TX 248	30 MHz			CAR C		
Remark:	N/A		199		12	1 Star	e	
10.0 dBuV/m								
1 X								
2 X					(RF) FCC	PART 15C (PEA	KI	
З					()			
60 ×								
4 X					(RF) FCC	PART 15C (AV	G)	
1/1								
0.0								
2472.000 2482.00	2492.00	2502.00 2512	2.00 2522.00	2532.00 25	542.00 2552	.00	2572.00 MI	
		Reading	Correct	Measure-				
No. Mk.	Freq.	Level	Factor	ment	Limit	Over		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto	
1 X 24	79.600	92.56	3.38	95.94	- Fundamenta	I Frequency	peak	
2 * 24	80.000	74.85	3.38	78.23	Fundamenta	I Frequency	AVG	
	02 500	62.41	3.41	65.82	74.00	-8,18	peal	
3 24	83.500	02.41	3.41	00.02	74.00	-0.10	pour	



(2) Conducted Test

nuucie												
Temper	ature):	25 ℃	1			Relati	ve Hui	nidity:	55%	%	-
Test Vo	Itage	:	AC 12	0V 60⊢	IZ	-	2		200		-	11
Test Mo	ode:		BLE M	ode TX	(2402 	2402MHz / BLE Mode TX 2480MHz						
Remark	(:		The El	JT is p	rogram	ed in d	continuo	ously tr	ansmitti	ng ma	ode	
	🔆 🔆 Aç	ilent										
	Ref 15	dBm		At	tten 25 dE	3			М		7825 GH	
	Peak											
	Log										8	
	10 dB/											
	ав/ Offst	Disp	lay Line	• • • • • • • • • • • • • • • • • • •								
	1		55 dBm									
	dB	-21.0									3	
	DI								\$	0		~
	-21.6											
	dBm											
									+			
	Center	2.357 G	H7							Spa	n 100 MH	7
		W 100 I			#	VBW 30	0 kHz		Sweep 10.	eep 10.36 ms (401 pts)		
	Marke	r Tra	ace Ty	/pe		Axis		Amplitu				
	1			req	2.4022 2.3900			-1.552 di -53.14 di				
	2	(*		req	2.3900			-53.14 di -46.75 di				
	4	(*		req	2.3782			-51.37 di				

						Mkr4 2.49	
lef 15 dB	m	A	tten 25 dB			-51.	72 dBm
eak							
og 📃	\$						
o –	Ň —			·			
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	isplay	Lino					
	22.20 d	Bm					
B 1							
لر ا		$\mathbf{\hat{\mathbf{A}}}$					
2.2	· ·····	····X-···	howhowhow	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Bm —							
enter 2.5	526 GHz					Span	100 MH
Res BW	100 kHz		#VBW 300	kHz	Sweep	10.36 ms (4	01 pts)
Marker	Trace	Туре	X Axis		Amplitude		
1	(1)	Freq	2.48025 GHz		-2.202 dBm		
2	(1)	Freq	2.48350 GHz		-52.03 dBm		
3	(1)	Freq	2.50000 GHz		-52.5 dBm		
0	(1)	Freq	2.49425 GHz		-51.72 dBm		

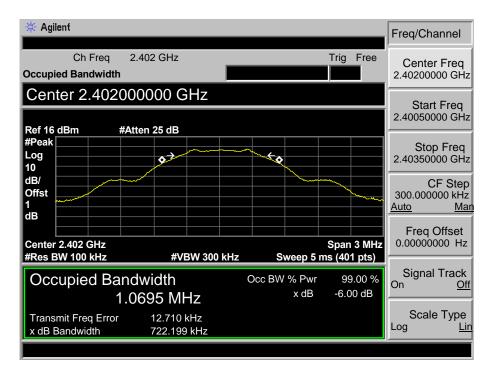


Attachment D-- Bandwidth Test Data

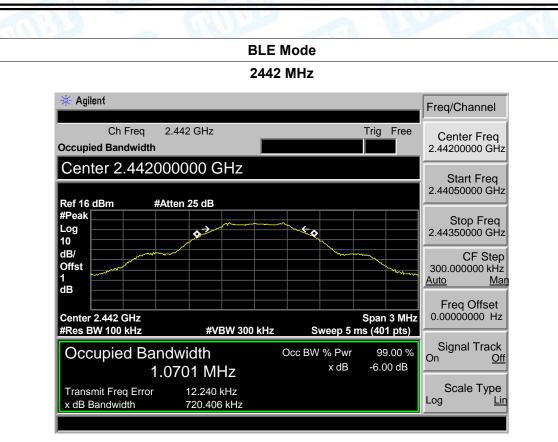
Temperature:	25 ℃		Relative Humidity:	55%			
Test Voltage:	AC 1	20V 60HZ					
Test Mode:	Test Mode: BLE TX Mode						
Channel freque	ncy	6dB Bandwidth	99% Bandwidth	Limit			
(MHz)		(kHz)	(kHz)	(kHz)			
2402		722.199	1069.5				
2442		720.406	1070.1	>=500			
2480		710.338	1076.0				
		RIEM	lodo	1			

BLE Mode



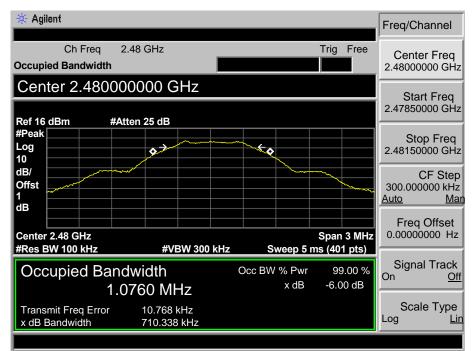






BLE Mode

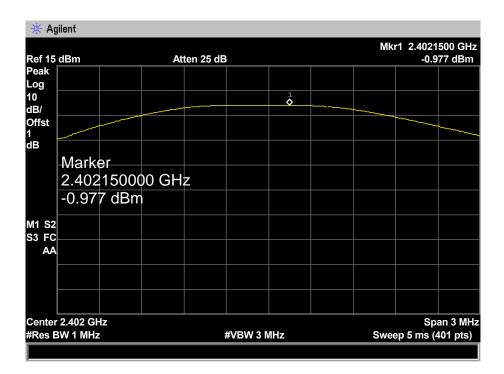
2480 MHz



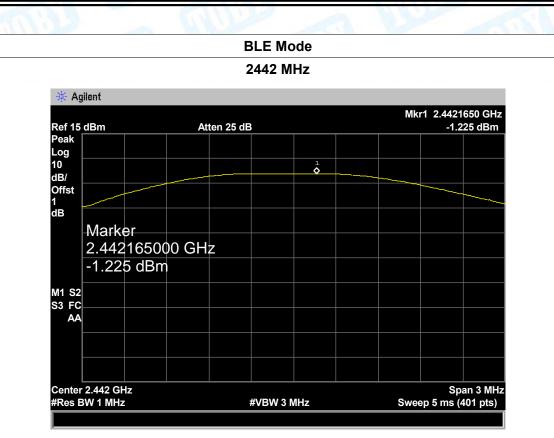


Attachment E-- Peak Output Power Test Data

Temperature:	25 ℃	Relative Humidity:		55%			
Test Voltage:	AC 120V	60HZ	N.S.S.				
Test Mode:	st Mode: BLE TX Mode						
Channel freque	ncy (MHz)	Test Result (dBm)	Limit (dBm)				
2402		-0.977					
2442		-1.225		30			
2480		-1.575					
		BLE Mode	i				
		2402 MHz					







BLE Mode

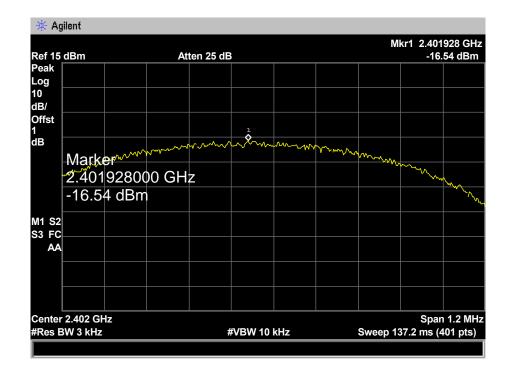
2480 MHz

	• ••		N	lkr1 2.4801350 GH
ef 15 dBm eak	Atten 25 c	IB		-1.575 dBr
og				
)				
3/		◇		
ffst				
3				
Marker				
2.480135	5000 GHz			
-1.575 dE	3m			
1 S2				
3 FC				
AA				
enter 2.48 GHz Res BW 1 MHz		#VBW 3 MHz	0	Span 3 M eep 5 ms (401 pts

Attachment F-- Power Spectral Density Test Data

Temperature:	25 ℃	Relative Humidity:			55%	
Test Voltage:	AC 120V	60HZ				511
Test Mode:	BLE TX M	LE TX Mode				
Channel Freq	uency	Power Density		Limi	Limit	
(MHz)		(dBm/3kHz)		(dBm/3	(dBm/3kHz)	
2402		-16.	54			
2442	2442		-17.16		8	
2480		-17.53				
		BLE N	lode	L.		

2402 MHz



-----END OF REPORT-----



BLE Mode 2480 MHz

