

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC170697 Page: 1 of 52

FCC Radio Test Report FCC ID: 2ABES-PILOTX01

Original Grant

Report No.	TB-FCC170697	
Applicant	Pathway Innovations and Technologies, Inc.	
Equipment Under	est (EUT)	
EUT Name	PilotX Tablet	
Model No.	KR2102	
Serial Model No.	PilotX Tablet, PilotX, PilotS, PilotY, PilotZ, PilotV	
Brand Name	HoverCam	
Receipt Date	2019-11-30	
Test Date	2019-12-01 to 2019-12-18	
Issue Date	2019-12-19	
Standards	FCC Part 15: 2018, Subpart C(15.247)	
Test Method	ANSI C63.10: 2013	
Conclusions	PASS	

Test/Witness Engineer

Engineer Supervisor

Engineer Manager

In the configuration tested, the EUT complied with the standards specified above,



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



Contents

CON	ITENTS	2
1.	GENERAL INFORMATION ABOUT EUT	5
	1.1 Client Information	5
	1.2 General Description of EUT (Equipment Under Test)	
	1.3 Block Diagram Showing the Configuration of System Tested	6
	1.4 Description of Support Units	6
	1.6 Description of Test Software Setting	7
	1.7 Measurement Uncertainty	
	1.8 Test Facility	
2.	TEST SUMMARY	
3.	TEST SOFTWARE	
4.	TEST EQUIPMENT	
5.	CONDUCTED EMISSION TEST	12
	5.1 Test Standard and Limit	
	5.2 Test Setup	12
	5.3 Test Procedure	
	5.4 EUT Operating Mode	13
	5.5 Test Data	13
6.	RADIATED EMISSION TEST	14
	6.1 Test Standard and Limit	14
	6.2 Test Setup	15
	6.3 Test Procedure	16
	6.4 EUT Operating Condition	17
	6.5 Test Data	17
7.	RESTRICTED BANDS REQUIREMENT	
	7.1 Test Standard and Limit	
	7.2 Test Setup	
	7.3 Test Procedure	19
	7.4 EUT Operating Condition	
	7.5 Test Data	
8.	BANDWIDTH TEST	
	8.1 Test Standard and Limit	20
	8.2 Test Setup	
	8.3 Test Procedure	
	8.4 EUT Operating Condition	
	8.5 Test Data	
9.	PEAK OUTPUT POWER TEST	
	9.1 Test Standard and Limit	
	9.2 Test Setup	



	9.3 Test Procedure	
	9.4 EUT Operating Condition	21
	9.5 Test Data	21
10.	POWER SPECTRAL DENSITY TEST	
	10.1 Test Standard and Limit	22
	10.2 Test Setup	22
	10.3 Test Procedure	
	10.4 EUT Operating Condition	
	10.5 Test Data	
11.	ANTENNA REQUIREMENT	
	11.1 Standard Requirement	23
	11.2 Antenna Connected Construction	
	11.3 Result	
ATT	ACHMENT A CONDUCTED EMISSION TEST DATA	24
ATT	ACHMENT B RADIATED EMISSION TEST DATA	
	ACHMENT C RESTRICTED BANDS REQUIREMENT AND BAND-EDGE TES	
	ACHMENT D BANDWIDTH TEST DATA	
	ACHMENT E PEAK OUTPUT POWER TEST DATA	
ATT	ACHMENT F POWER SPECTRAL DENSITY TEST DATA	49



Report No.: TB-FCC170697 Page: 4 of 52

Revision History

Report No.	Version	Description	Issued Date
TB-FCC170697	Rev.01	Initial issue of report	2019-12-19
	2		10000
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2	NU9		
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and i	50		
	32		
	100		



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, U		Pathway Innovations and Technologies, Inc.
		9985 Pacific Heights Blvd., Suite 100 San Diego, CA 92121, USA
Manufacturer : ShenZhen KerunVisual Technology Co., LTD.		ShenZhen KerunVisual Technology Co., LTD.
Unit A, F/11, Bldg.1, Senyang Electronic Technology		Unit 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	:	PilotX Tablet			
Models No.		KR2102, PilotX Tablet, PilotX, PilotS, PilotY, PilotZ, PilotV			
Model Difference		All these models are the same PCB, layout and electrical circuit, the only difference is model name.			
13.4		Operation Frequency:	Bluetooth 4.2(BLE): 2402MHz~2480MHz		
		Number of Channel:	Bluetooth 4.2(BLE): 40 channels see note(3)		
Product	P	RF Output Power:	BLE:0.122 dBm		
Description	i	Antenna Gain:	3 dBi Dipole Antenna		
		Modulation Type:	GFSK		
		Bit Rate of Transmitter:	1Mbps(GFSK)		
Power Supply	:	Input: DC 10-15V, 4A DC 7.4V by 10000mAh	Li-ion battery		
Software Version	:	win10	mail nous		
Hardware Version	:	V0.8	V0.8		
Connecting I/O Port(S)	:	Please refer to the User's Manual The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.			
Remark					

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

EUT



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used "√"
N/A	N/A		N/A	

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 fixed 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:	14.20 dB
Radiated Emission	Above 1000MHz	±4.20 dB



Report No.: TB-FCC170697 Page: 9 of 52

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

Report No.: TB-FCC170697 Page: 10 of 52

2. Test Summary

Standard Section			ludomont		
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: N/A is an abbreviation for Not Applicable.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE



4. Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Dat
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 Emission T	Test	-	-	-	-
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Dat
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	1311.006K40-10 0945-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 I	Emission				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Dat
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
111	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 16, 2019	Sep. 15, 2020
RF Power Sensor	DARE !! Instruments	RadiPowerRPR3006W	17100015SNO29	Sep. 16, 2019	Sep. 15, 2020
RF FOWER SENSOR	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO31	Sep. 16, 2019	Sep. 15, 2020
	DARE!! Instruments		17100015SNO33	Sep. 16, 2019	Sep. 15, 2020



5. Conducted Emission Test

- 5.1 Test Standard and Limit
 - 5.1.1Test Standard FCC Part 15.207
 - 5.1.2 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	

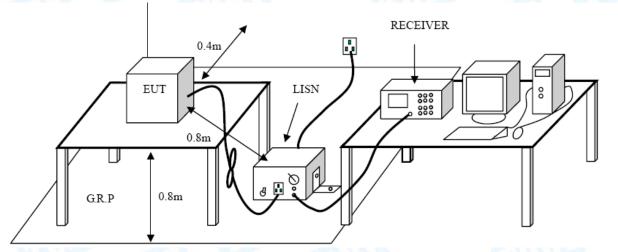
Notes:

(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.

5.2 Test Setup



5.3 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.

5.4 EUT Operating Mode

Please refer to the description of test mode.

5.5 Test Data

Please refer to the Attachment A.



6. Radiated Emission Test

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

Frequency	Distance Met	ers(at 3m)
(MHz)	Peak (dBuV/m)	Average (dBuV/m)
Above 1000	74	54

Note:

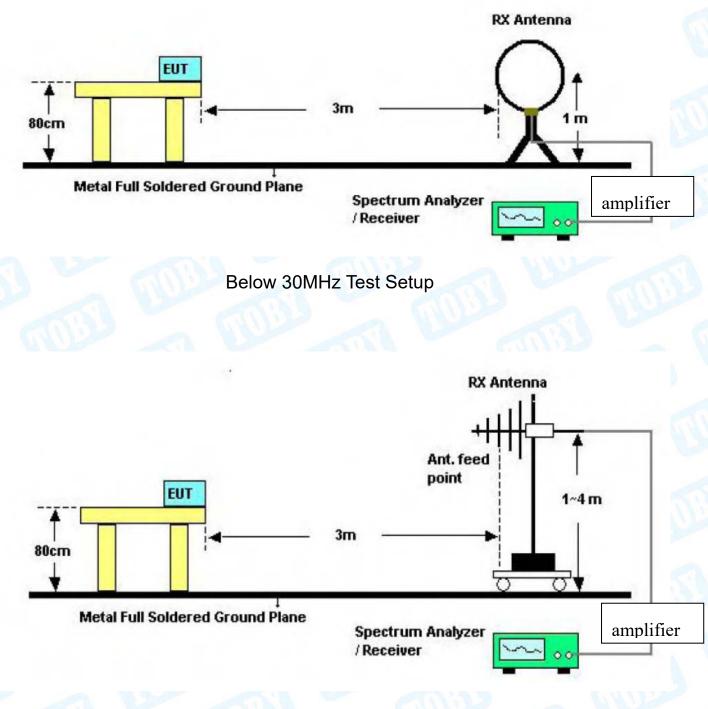
(1) The tighter limit applies at the band edges.

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



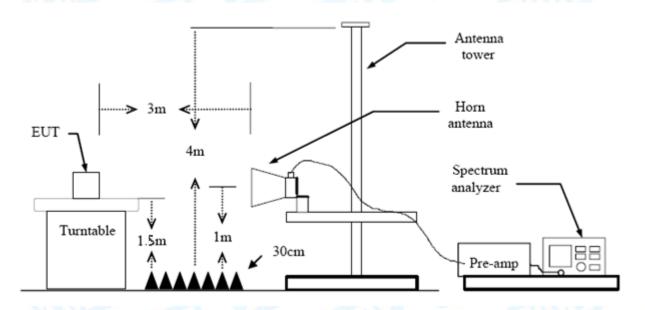
Report No.: TB-FCC170697 Page: 15 of 52

6.2 Test Setup



Below 1000MHz Test Setup





Above 1GHz 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.



Report No.: TB-FCC170697 Page: 17 of 52

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 B.

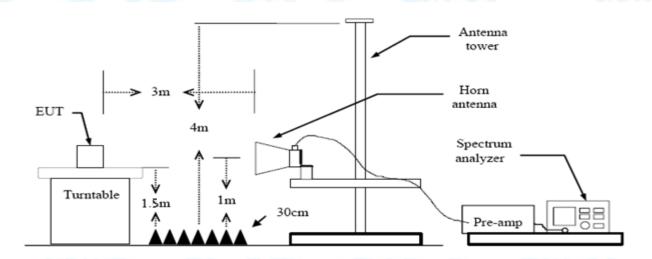


7. Restricted Bands Requirement

- 7.1 Test Standard and Limit
 - 7.1.1 Test Standard
 - FCC Part 15.247(d) FCC Part 15.205
 - 7.1.2 Test Limit

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

7.2 Test Setup



7.3 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.

7.4 EUT Operating Condition

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

7.5 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.

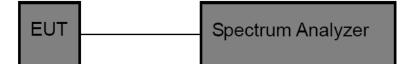


8. Bandwidth Test

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

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

8.2 Test Setup



8.3 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.

8.4 EUT Operating Condition

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

8.5 Test Data

Please refer to the Attachment D.

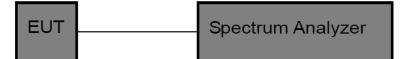


9. Peak Output Power Test

- 9.1 Test Standard and Limit
 - 9.1.1 Test Standard
 - FCC Part 15.247 (b)(3)
 - 9.1.2 Test Limit

FCC Part 15 Subpart C(15.247)/RSS-247			
Test Item Limit Frequency Range(M			
Peak Output Power	1 Watt or 30 dBm	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 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.
- 9.4 EUT Operating Condition

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

9.5 Test Data

Please refer to the Attachment E.

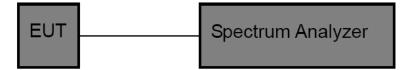


10. Power Spectral Density Test

- 10.1 Test Standard and Limit
 - 10.1.1 Test Standard FCC Part 15.247 (e) 10.1.2 Test Limit

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

10.2 Test Setup



10.3 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.

10.4 EUT Operating Condition

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

10.5 Test Data

Please refer to the Attachment F.



11. Antenna Requirement

11.1 Standard Requirement

11.1.1 Standard

FCC Part 15.203

11.1.2 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.

11.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 2 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

11.3 Result

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

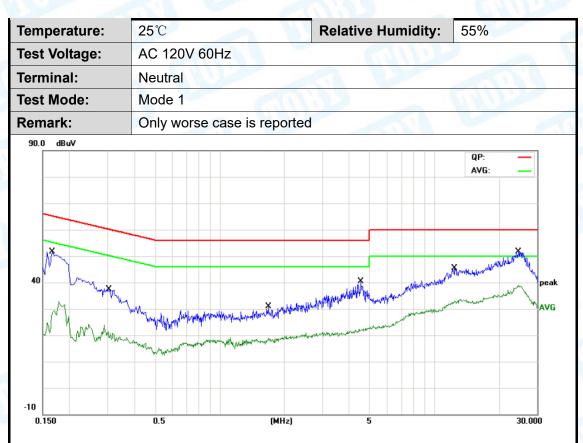
Antenna Type	
Permanent attached antenna	
Unique connector antenna	2002
Professional installation antenna	a mil

Attachment A-- Conducted Emission Test Data

Cemperature:	25 ℃	Relative Humidity:	55%
est Voltage:	AC 120V 60Hz		
ferminal:	Line		GUID
fest Mode:	Mode 1		
Remark:	Only worse case is re	eported	
90.0 dBuV 40 -10 0.150	0.5	(MHz) 5	QP:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1658	25.42	9.62	35.04	65.16	-30.12	QP
2		0.1658	7.69	9.62	17.31	55.16	-37.85	AVG
3		0.5378	16.65	9.78	26.43	56.00	-29.57	QP
4		0.5378	7.49	9.78	17.27	46.00	-28.73	AVG
5		4.5734	20.38	9.82	30.20	56.00	-25.80	QP
6		4.5734	10.01	9.82	19.83	46.00	-26.17	AVG
7		7.6463	23.89	9.86	33.75	60.00	-26.25	QP
8		7.6463	14.67	9.86	24.53	50.00	-25.47	AVG
9		13.9146	29.56	9.86	39.42	60.00	-20.58	QP
10		13.9146	21.87	9.86	31.73	50.00	-18.27	AVG
11		25.0545	38.80	9.75	48.55	60.00	-11.45	QP
12	*	25.0545	30.29	9.75	40.04	50.00	-9.96	AVG





No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1658	25.44	9.62	35.06	65.16	-30.10	QP
2	0.1658	7.75	9.62	17.37	55.16	-37.79	AVG
3	0.3048	18.91	9.70	28.61	60.11	-31.50	QP
4	0.3048	6.67	9.70	16.37	50.11	-33.74	AVG
5	1.6800	13.92	9.83	23.75	56.00	-32.25	QP
6	1.6800	6.79	9.83	16.62	46.00	-29.38	AVG
7	4.5252	21.05	9.82	30.87	56.00	-25.13	QP
8	4.5252	10.13	9.82	19.95	46.00	-26.05	AVG
9	12.3835	29.86	9.86	39.72	60.00	-20.28	QP
10	12.3835	20.74	9.86	30.60	50.00	-19.40	AVG
11	24.5290	39.70	9.74	49.44	60.00	-10.56	QP
12 *	24.5290	31.25	9.74	40.99	50.00	-9.01	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 Hun	nidity: 55%
est Voltage:	AC 120V 60Hz		A DIANA
nt. Pol.	Horizontal		
est Mode:	Mode 1		
emark:	Only worse case	is reported	
80.0 dBuV/m			
			(RF)FCC 15C 3M Radiation
			Margin -6 dB
	3		6 5 · · 个 ·
30×	- Z	A AL	Am Marin
		A where a province	" Murrillins"
mm	man		
-20			

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		30.0000	42.19	-13.00	29.19	40.00	-10.81	QP
2		84.7019	51.74	-22.30	29.44	40.00	-10.56	QP
3	*	111.3468	59.12	-22.45	36.67	43.50	-6.83	QP
4		213.7634	52.74	-19.11	33.63	43.50	-9.87	QP
5		377.2591	47.87	-13.13	34.74	46.00	-11.26	QP
6		689.5644	45.80	-6.85	38.95	46.00	-7.05	QP

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



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V 60Hz		
Ant. Pol.	Vertical		
Test Mode:	Mode 1	and a	INU.
Remark:	Only worse case is	reported	
80.0 dBu∀/m			
30 30 30		a a a a a a a a a a a a a a a a a a a	RFJFCC 15C 3M Radiation Margin -6 dB
-20			
30.000 40 !	50 60 70 80	(MHz) 300 4	400 500 600 700 1000.000
No. Mk.	Reading Freq. Level	Tactor ment	mit Over
	MHz dBu∨	dD/III	BuV/m dB Detector
1 ! 32	2.1795 48.85	-14.65 34.20 4	0.00 -5.80 QP
2 * 4	7.6586 58.77	-22.56 36.21 4	0.00 -3.79 QP
3 ! 11	1.3468 61.30	-22.45 38.85 4	3.50 -4.65 QP
4 39	0.7226 47.27	-12.51 34.76 4	6.00 -11.24 QP
5 45	59.1144 45.13	-11.52 33.61 4	6.00 -12.39 QP
6 85	51.0353 43.07	-5.41 37.66 4	6.00 -8.34 QP

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

Above 1GHz

Temperatu	re:	25 ℃	1		Relative Hui	midity:	55%	2		
Test Voltag	ge:	AC 12	OV 60HZ	3	AN					
Ant. Pol.		Horizo	ntal	-			201			
Test Mode	:	BLE M	BLE Mode TX 2402 MHz antenna A							
Remark:				mission wł	nich more tha	n 10 dB b	elow the	R		
No. M	ht. Pol. Horizontal st Mode: BLE Mode TX 2402 MHz antenna A									
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector		
1 *	480	03.430	29.81	13.44	43.25	54.00	-10.75	AVG		



Temperature:	25 ℃	Relative Humic	dity: 55	5%	0
Test Voltage:	AC 120V 60HZ		1.12		
Ant. Pol.	Vertical			-	
Test Mode:	BLE Mode TX 2402 M	Hz antenna A	~ 5	RUE	
Remark:	No report for the emiss prescribed limit.	sion which more than	10 dB be	elow the	17
No. Mk. Fr	.	rrect Measure- actor ment	Limit	Over	
M	IHz dBuV d	3/m dBuV/m	dBuV/m	dB	Detector
1 4803	3.110 43.02 13	.44 56.46	74.00	-17.54	peak
2 * 4803	3.133 30.10 13	.44 43.54	54.00	-10.46	AVG



2

Ter	npera	ture	:	25 ℃			Relative Hu	midity:	55%	0
Tes	st Volt	age		AC 12	0V 60HZ			1DP		
Ant	t. Pol.	•		Horizo	ntal				- Si	2.0
Tes	st Moo	de:		BLE M	ode TX 244	2 MHz ani	tenna A	-	A D	
Test Voltage: AC 120V 60HZ Ant. Pol. Horizontal Test Mode: BLE Mode TX 2442 MHz antenna / Remark: No report for the emission which m prescribed limit. No. Mk. Freq. Reading Correct Mea Factor means	hich more tha	an 10 dB k	below the	11						
	No.	Mk	. F	req.	•		Measure- ment	Limit	Over	
-			Ν	ИНz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
-	1	*	488	4.122	30.13	13.92	44.05	54.00	-9.95	AVG

13.92

42.49

56.41

74.00

-17.59

peak

Emission Level= Read Level+ Correct Factor

4884.130



Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V 60HZ		
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2442 MH	z antenna A	THU
Remark:	No report for the emission prescribed limit.	on which more than 10 dB	below the
No. Mk. Fr	Reading Corr eq. Level Fac	1 T T T	Over
М	Hz dBuV dB/r	n dBuV/m dBuV/m	dB Detector
1 * 4884	.142 29.33 13.9	43.25 54.00	-10.75 AVG
2 4884	.431 43.50 13.9	92 57.42 74.00	-16.58 peak



Tempe	erature	e:	25° ℃	1		Relative Hu	midity:	55%	0
Test V	/oltage	:	AC 12	0V 60HZ	YON .		N DE		
Ant. P	ol.		Horizo	ontal				1	
Test N	lode:		BLE Mode TX 2480 MHz antenna A						
Rema	rk:			oort for the e ibed limit.	emission wl	hich more tha	an 10 dB b	elow the	11
N	o. Mk	. Fre	∍q.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
N	o. Mk	. Fre M⊦	· ·	-			Limit dBuV/m	Over dB	Detector
No 1	o. Mk		Iz	Level	Factor	ment			Detector AVG



2

*

-8.75

54.00

AVG

Temperature:	25℃		Relative Hu	midity:	55%	0
Test Voltage:	AC 120V 60HZ			NOR		A
Ant. Pol.	Vertical				-	
Test Mode:	BLE Mode TX 24	80 MHz ant	tenna A			
Remark:	No report for the prescribed limit.	emission w	hich more tha	n 10 dB b	elow the	919
No. Mk.	Reading Freq. Level	Al Alode TX 2480 MHz antenna A Aloort for the emission which more than 10 dB below the Albed limit.				
	MHz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1 49	59.344 43.77	14.36	58.13	74.00	-15.87	peak

14.36

45.25

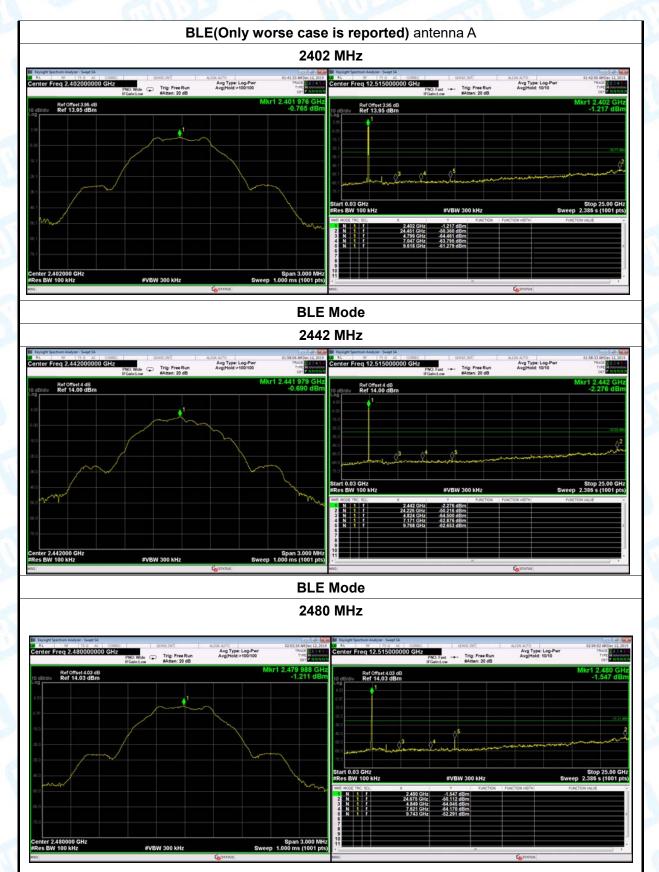
Emission Level= Read Level+ Correct Factor

30.89

4960.434



Conducted Emission Test Data



Attachment C-- Restricted Bands Requirement and

Band-edge Test Data

(1) Radiation Test

lation lest			-					
emperature:	25 ℃	-	14	Relative Humi	idity:	55%		5
est Voltage:	AC 120V	60HZ			S. C.			
Ant. Pol.	Horizonta	al						
est Mode:	BLE Mod	e TX 2402	MHz ar	ntenna A	- 5	3115		
Remark: Only worse case is reported						2	6	
100.0 dBuV/m								
							4	
							×	
					(RF) FC	C PART 15C	×	
							\square	
					(00) 5	CC PART 15		
50					(nr) r	CC PANT 15		
						1 X		Į
						2	1	
						×	-	
0.0								

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	41.34	0.77	42.11	74.00	-31.89	peak
2		2390.000	30.04	0.77	30.81	54.00	-23.19	AVG
3	*	2402.000	78.84	0.82	79.66	Fundamental Frequency		AVG
4	Х	2402.200	88.54	0.82	89.36	Fundamental I	requency	peak



emperature:	25 ℃	Relative Humidity:	55%						
est Voltage:	AC 120V 60HZ	AC 120V 60HZ							
nt. Pol.	Vertical	Vertical							
est Mode:	BLE Mode TX 24	BLE Mode TX 2402 MHz antenna A							
emark:	Only worse case is reported								
100.0 dBuV/m									
			4 × 3 CC PART 15C (PEÅK)						
50		(RF)	FCC PART 15C (AVG)						
0.0									

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.100	42.00	0.77	42.77	74.00	-31.23	peak
2		2390.112	29.48	0.77	30.25	54.00	-23.75	AVG
3	*	2402.000	78.26	0.82	79.08	Fundamental Frequency		AVG
4	Х	2402.300	88.72	0.82	89.54	- Fundamental Frequency		peak



mperature:	25 ℃	Relative Humidity:	55%
st Voltage:	AC 120V 60HZ	CILLE P	
nt. Pol.	Horizontal		
st Mode:	BLE Mode TX 2480 MH	Hz antenna A	MORE
mark:	Only worse case is rep	orted	
100.0 dBuV/m			
1 X			
2			
		(RF) FCC	PART 15C (PEAK)
3 X		(95) 50	C PART 15C (AVG)
50 4		(iii) (ci	CTAIL ISC (AVU)
1 ×			
	w		
0.0			

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2479.700	92.09	1.15	93.24	Fundamental	Frequency	peak
2	*	2479.900	83.20	1.15	84.35	Fundamental	Frequency	AVG
3		2483.500	57.44	1.17	58.61	74.00	-15.39	peak
4		2483.500	44.60	1.17	45.77	54.00	-8.23	AVG

Emission Level= Read Level+ Correct Factor



mperature:	25 ℃	Relative Humidity:	55%				
st Voltage:	AC 120V 60HZ		2				
t. Pol.	Vertical						
st Mode:	BLE Mode TX 2480 M	/Hz antenna A	THU -				
mark:	Only worse case is re	is reported					
100.0 dBuV/m							
			FCC PART 15C (PEAK)				
50							
0.0							

No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Х	2479.800	91.09	1.15	92.24	Fundamenta	I Frequency	peak
2	*	2479.900	83.37	1.15	84.52	Fundamenta	I Frequency	AVG
3		2483.500	56.63	1.17	57.80	74.00	-16.20	peak
4		2483.500	43.27	1.17	44.44	54.00	-9.56	AVG

Emission Level= Read Level+ Correct Factor



(2) Conducted Test

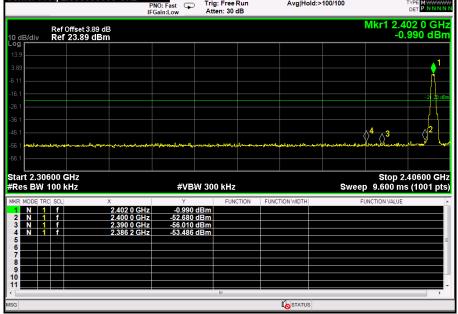
	Temperature:	25 ℃	Relative Humidity:	55%						
	Test Voltage:	AC 120V 60HZ								
Test Mode: BLE Mode TX 2402MHz / BLE Mode TX 2480MHz antenna A										
	Remark:	The EUT is programed in o	continuously transmittin	g mode						

RL	RF	rzer - Swept SA 75 Ω AC	CORREC		SENSE:INT		ALIGN AUTO			5 AM Dec 12, 20
enter Fr	eq 2.3	5600000	F	PNO: Fast 😱	Trig: Free Atten: 30		Avg Typ Avg Hold	e: Log-Pwr d:>100/100	TF	TYPE MWWW DET PNNN
0 dB/div		set 3.95 dE 3 .95 dBm							Mkr1 2.4 -0.	02 0 GH 336 dBr
og 14.0										
3.95										∮ ¹
6.05										<u> </u>
26.1										-20.44 dE
36.1										
16.1					4				3	2
56.1 	6		and the second	menson		de-mar	aller fill your and the second	mangalana	mandunduri	budod h
66.1										
tart 2.30 Res BW				#VB	N 300 kHz			Sweet	Stop 2. p 9.600 ms	40600 GH
			<	W V		CTION	FUNCTION WIDTH		UNCTION VALUE	5 (1001 pt.
1 N 1	f		2.402 0 GHz	-0.336	dBm	CHON	T GIAC HOI WIDTH		UNCTION VALUE	
2 N 1 3 N 1	f		2.400 0 GHz 2.390 0 GHz	-54.442 -55.614	dBm dBm					
4 N 1	f		2.345 3 GHz	-52.765	dBm					
5										
7										
8										
0										
										Þ

		Analyzer - Swept SA											
enter F	req 2	75 Ω AC 2.52600000		PNO: Fast IFGain:Low		g: Free R ten: 30 di		ALIG	Avg Ty Avg Ty Avg Hol	pe: Log- d:>100/1		02:0	2:28 AM Dec 12, 2 TRACE 1 2 3 4 TYPE MWWW DET P N N N
0 dB/div		Offset 4.03 dE 2 4.03 dBm											.480 0 GI 0.724 dB
4.0													
1.03 6	1												
i.97 🕂													
6.0													-20.94 (
6.0													-20.341
6.0													
6.0	×2		4 _3										
6.0 <mark>wy</mark>		read an	montente	a law or and	Anoren	delanation	Lyding of	-	elihonna	warry al al	ontententen.	for the stand of the second	have a second second second second second
6.0													
tart 2.47	2600	CH-										Oton	2 57600 0
Res BW				#\	/BW 30	0 kHz					Sweep	9.600	2.57600 Gi ms (1001 pi
KR MODE TR		;	ĸ	Y		FUNCT	ION	FUNCTIO	ON WIDTH		FI	JNCTION VALU	JE
1 N 1 2 N 1	f		2.480 0 GH 2.483 5 GH		24 dBm								
3 N 1	f		2.500 0 GH	z -54.5	72 dBm 09 dBm								
5			2.455 4 GH	-01.0									
6 7													
6													
6 7 8													
6 7 8 9 0						III							•



Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	AC 120V 60HZ	1					
Test Mode:	BLE Mode TX 2402MHz / BLE Mode TX 2480MHz antenna B						
Remark:	The EUT is programed in a	continuously transmittir	ng mode				
Keysight Spectrum / Mark RL RF Center Freq 2			08:28:11 PMJan 02, 2020 TRACE 23 45 6 TYPE 24 45 6				



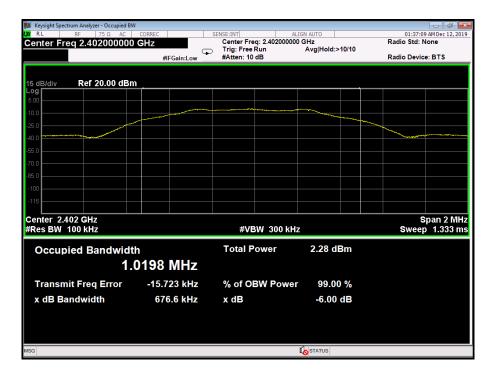
Keysight Spectrum Analyz	75 Ω AC CORREC	SENSE:INT	1	ALIGN AUTO		8:32:19 PM Jan 02, 20
enter Freq 2.52	PN		Free Run n: 30 dB	Avg Type: Lo Avg Hold:>10		TRACE 1234 TYPE MWWW DET PNNN
0 dB/div Ref 23	et 3.93 dB .93 dBm				Mkr1	2.480 0 GI -1.341 dB
og 13.9						
3.93 - • •						
16.1						-21.45 (
26.1						
	43					
	and and and a second the	musher and angellegh work	Langerston Station	putre and a second s	<u>mississendensk</u> ro	whether the section of the section o
6.1						- 0 57600 0
Res BW 100 kHz		#VBW 300	kHz		Sweep 9.60	op 2.57600 G 0 ms (1001 p
KR MODE TRC SCL	× 2.480 0 GHz	۲ -1.341 dBm	FUNCTION FUI	NCTION WIDTH	FUNCTION V	ALUE
2 N 1 f 3 N 1 f	2.483 5 GHz 2.500 0 GHz	-55.409 dBm -55.698 dBm				
	2.487 8 GHz	-53.755 dBm				
7						
8						
9						
8 9 0 1 9			Π.	STATUS		



Attachment D-- Bandwidth Test Data

Temperature:	25 ℃		Relative Humidity:	55%			
Test Voltage:	AC 120V 60HZ						
Test Mode:	st Mode: BLE TX Mode antenna A						
Channel freque	ency	6dB Bandwidth	99% Bandwidth	Limit			
(MHz)		(kHz)	(kHz)	(kHz)			
2402		676.6	1019.8				
2442		676.5 1022.6		>=500			
2480		629.8	1060.1				

BLE Mode





BLE Mode 2442 MHz Keysight Spectrum Analyzer - Occupied BV 01:53:29 AM Dec 12, 2019 Radio Std: None SENSE:INT AIGN AUTO Center Freq: 2.44200000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 30 dB Center Freq 2.442000000 GHz Radio Device: BTS #IEGain:Low Ref 20.00 dBm Center 2.442 GHz #Res BW 100 kHz Span 2 MHz Sweep 1.333 ms #VBW 300 kHz Total Power 2.40 dBm **Occupied Bandwidth** 1.0226 MHz Transmit Freq Error -15.483 kHz % of OBW Power 99.00 % x dB Bandwidth 676.5 kHz x dB -6.00 dB **I**STATUS

BLE Mode





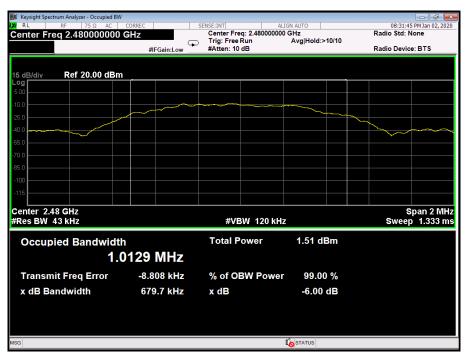
Temperature:	25℃		Relative Humidity:	55%				
Test Voltage:	AC 1	20V 60HZ						
Test Mode:	BLE	BLE TX Mode antenna B						
Channel freque	ency	6dB Bandwidth	99% Bandwidth	Limit				
(MHz)		(kHz)	(kHz)	(kHz)				
2402		681.8	1009.2					
2442		675.1	1011.4	>=500				
2480		679.7	1012.9					





BLE Mode 2442 MHz Keysight Spectrum Analyzer - Occupied BV 08:29:59 PM Jan 02, 2020 Radio Std: None SENSE:INT ALIGN AUTO Center Freq: 2.44200000 GHz Trij: Free Run Avg|Hold:>10/10 #Atten: 10 dB Center Freq 2.442000000 GHz Radio Device: BTS #IEGain:Low Ref 20.00 dBm Center 2.442 GHz #Res BW 43 kHz Span 2 MHz Sweep 1.333 ms #VBW 120 kHz Total Power 2.05 dBm **Occupied Bandwidth** 1.0114 MHz -8.505 kHz Transmit Freq Error % of OBW Power 99.00 % x dB Bandwidth 675.1 kHz x dB -6.00 dB **I**STATUS

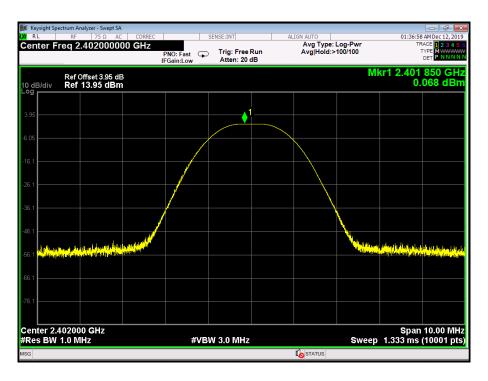
BLE Mode



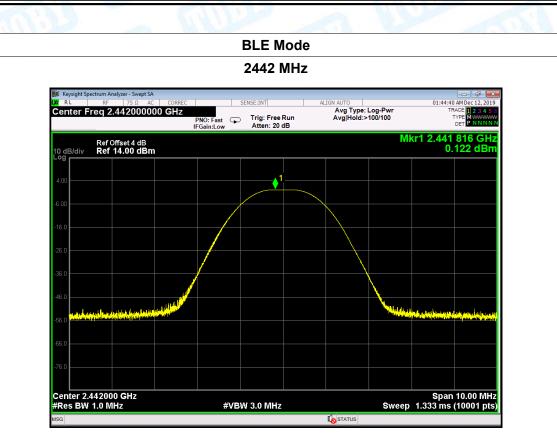


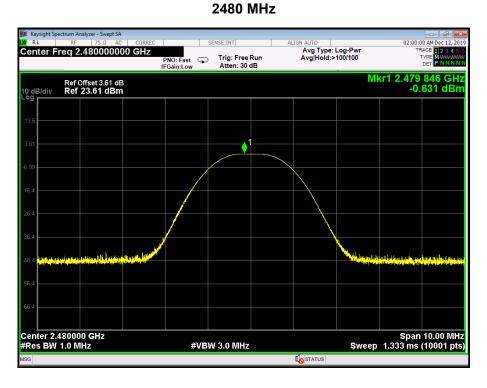
Attachment E-- Peak Output Power Test Data

Temperature:	25 ℃		Relative Humidity:	55%			
Test Voltage:	AC 120V	60HZ					
Test Mode:	t Mode: BLE TX Mode antenna A						
Channel frequen	cy (MHz)	Test Res	ult (dBm)	Limit (dBm)			
2402		0.068					
2442		0.1	30				
2480		-0.6	531				
		BLE	Mode				



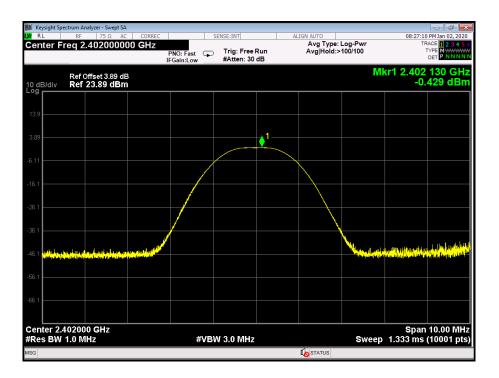




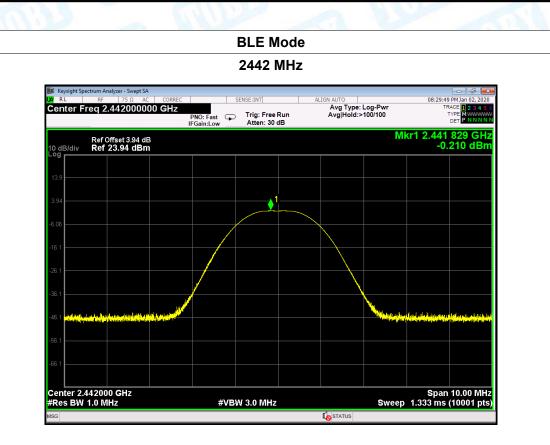


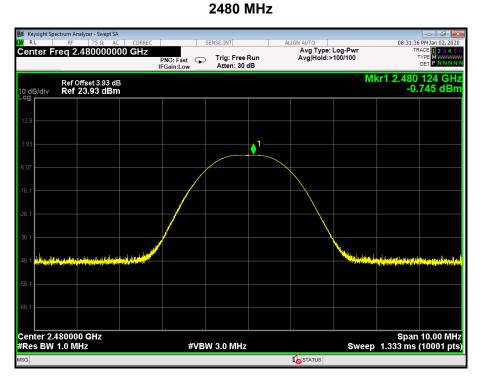


Temperature:	25 ℃		Relative Humidity:	55%				
Test Voltage:	AC 120V 60HZ							
Test Mode:	BLE TX N	BLE TX Mode antenna B						
Channel frequency (MHz)		Test Result (dBm)		Limit (dBm)				
2402		-0.4	429					
2442		-0.2	210	30				
2480		-0.745						
		BLE	Mode					
		2402	MHz					





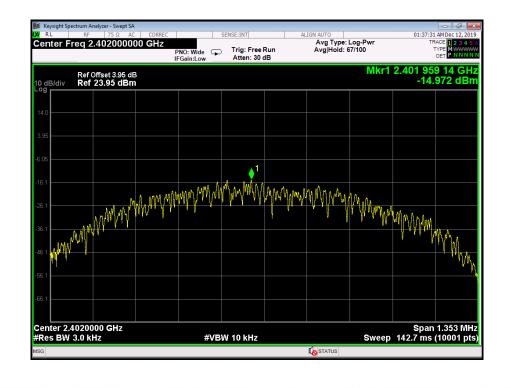




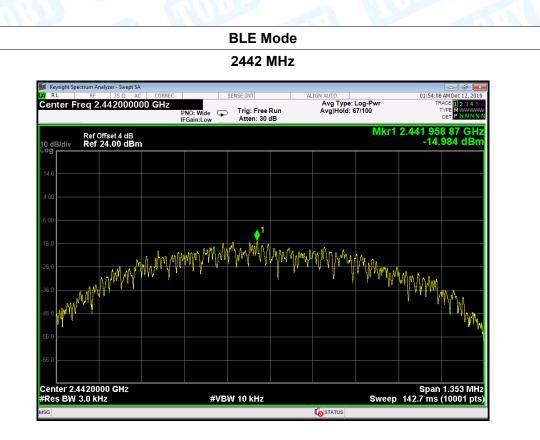


Attachment F-- Power Spectral Density Test Data

Temperature:	25 ℃		Relative Humidity:		55%		
Test Voltage:	AC 120V 60HZ						
Test Mode:	BLE TX Mode antenna A						
Channel Frequency		Power Density		Limi	Limit		
(MHz)		(dBm/3kHz)		(dBm/3	(dBm/3kHz)		
2402		-14.9	72				
2442		-14.9	84	8	8 PA		
2480		-15.2	90				
		BLE M	ode				
		0.400					



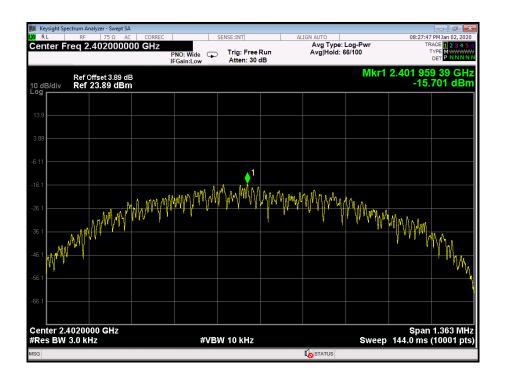








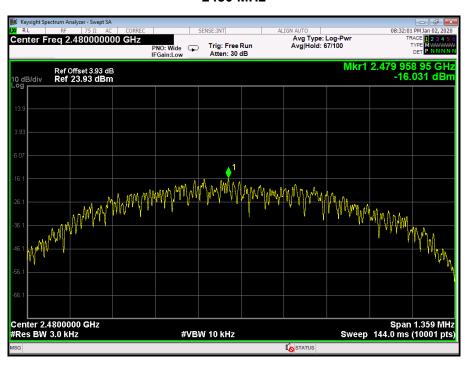
			and a la					
Temperature:	25 ℃		Relative I	Humidity:	55%			
Test Voltage:	AC 120V 60HZ							
Test Mode:	BLE TX N	BLE TX Mode antenna B						
Channel Frequency		Power Density		Limi	Limit			
(MHz)		(dBm/3kHz)		(dBm/3l	(dBm/3kHz)			
2402		-15.7	01					
2442		-15.4	88	8		PASS		
2480		-16.0	31		-			
		BLE M	ode	L	1			
		2402 N	//Hz					



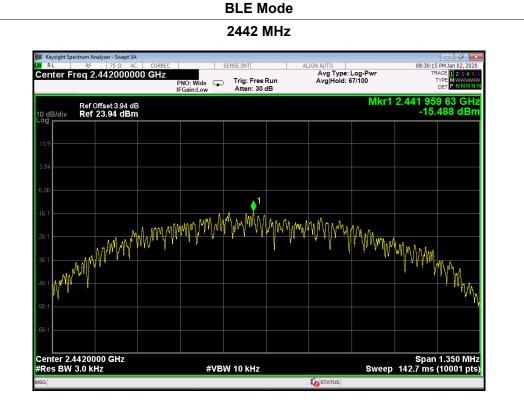


TB-RF-074-1.0

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



BLE Mode 2480 MHz



TOBY

 Report No.:
 TB-FCC170697

 Page:
 52 of 52