

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC152371

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FCC Radio Test Report FCC ID: 2ALUT-C70120

Original Grant

Report No. TB-FCC152371

IZZO Golf, Inc. **Applicant**

Equipment Under Test (EUT)

EUT Name Allsport Watch

Model No. #C70120

Serial No. N/A

Brand Name Callaway

Receipt Date 2017-04-05

2017-04-06 to 2017-04-17 **Test Date**

Issue Date 2017-04-18

FCC Part 15: 2016, Subpart C(15.247) **Standards**

Test Method ANSI C63.10: 2013

Conclusions PASS

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

Test/Witness

Engineer

Approved& **Authorized**

the report.

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

TB-RF-074-1.0

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1. General Information about EUT

1.1 Client Information

Applicant: IZZO Golf, Inc.

Address : 1635 Commons Parkway, Macedon, NY 14502, USA

Manufacturer: TSKY CO., LTD.

Address: 21F.-2, No.8, Ziqiang S. Rd., Zhubei City, Hsinchu County 302,

Taiwan

1.2 General Description of EUT (Equipment Under Test)

EUT Name	·	Allsport Watch	Allsport Watch		
Models No.		#C70120			
Model Difference	ij	N/A			
	S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz		
		Number of Channel:	Bluetooth 4.0(BLE): 40 channels see note(3)		
Product		RF Output Power:	-2.980 dBm Conducted Power		
Description		Antenna Gain:	0 dBi PCB Antenna		
		Modulation Type:	GFSK		
		Bit Rate of Transmitter:	1Mbps(GFSK)		
Power Supply		DC Voltage Supplied by DC Supply by the Batter	DC Voltage Supplied by the USB. DC Supply by the Battery.		
Power Rating	:				
	DC 3.7 V by 400mAh Li-Lion Battery.		Lion Battery.		
Connecting I/O Port(S)		Please refer to the User's Manual			

Note:

This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v04.

- (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:

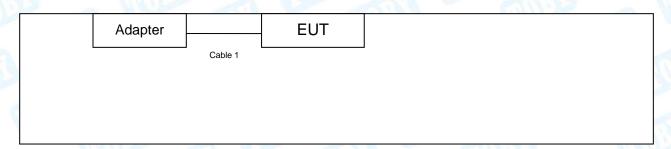


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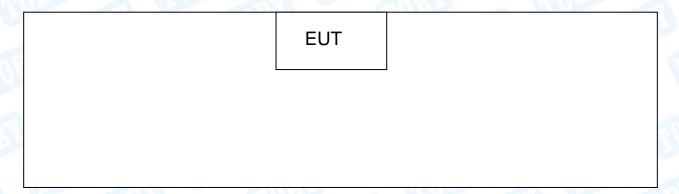
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	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

USB Charging Mode



TX Mode





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1.4 Description of Support Units

Equipment Information							
Name Model FCC ID/VOC Manufactur				Used "√"			
AC/DC Adapter TEKA012 VOC TEKA √				1			
AC/DC Adapter:	AC/DC Adapter: Input:100~240V, 50/60Hz, 0.2A. Output: 5V, 1A						
	Cable Information						
Number Shielded Type Ferrite Core Length Note							
Cable 1	NO	NO	0.4M	a live			

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			

For Radiated Test					
Final Test Mode	Description				
Mode 2	TX Mode				
Mode 3	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.



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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	400	N/A	
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
Radiated Emission	Level Accuracy:	±4.60 dB
Radiated Emission	9kHz to 30 MHz	±4.60 dB
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	±4,20 dB
Naulateu EIIIISSIOII	Above 1000MHz	±4.20 ub



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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.

FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

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.



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2. Test Summary

Standard Section		Took Itams	Tuel avec a set	Damari	
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.



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3. Test Equipment

Receiver Co	hde & Schwarz	ESCI			Date
RF Switching Unit Dire	mpliance	200.	100321	Jul. 22, 2016	Jul. 21, 2017
	ection Systems	RSU-A4	34403	Jul. 22, 2016	Jul. 21, 2017
AMN SC	HWARZBECK	NNBL 8226-2	8226-2/164	Jul. 22, 2016	Jul. 21, 2017
LISN Rol	hde & Schwarz	ENV216	101131	Jul. 22, 2016	Jul. 21, 2017
Radiation Em	ission Test	t			
Equipment Ma	anufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer Agi	ilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
EMI Test Receiver	hde & Schwarz	ESPI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Bilog Antenna ET	S-LINDGREN	3142E	00117537	Mar. 25, 2017	Mar. 24, 2018
Bilog Antenna ET	S-LINDGREN	3142E	00117542	Mar. 25, 2017	Mar. 24, 2018
Horn Antenna ET	S-LINDGREN	3117	00143207	Mar. 25, 2017	Mar. 24, 2018
Horn Antenna ET	S-LINDGREN	3117	00143209	Mar. 25, 2017	Mar. 24, 2018
Loop Antenna Lap	olace instrument	RF300	0701	Mar. 25, 2017	Mar. 24, 2018
Pre-amplifier Soi	noma	310N	185903	Mar. 24, 2017	Mar. 23, 2018
Pre-amplifier HP		8449B	3008A00849	Mar. 29, 2017	Mar. 28, 2018
Cable HU	BER+SUHNER	100	SUCOFLEX	Mar. 29, 2017	Mar. 28, 2018
Positioning Controller ET	S-LINDGREN	2090	N/A	N/A	N/A
Antenna Con	ducted Em	ission			
Equipment Ma	anufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer Agi	ilent	E4407B	MY45106456	Jul. 22, 2016	Jul. 21, 2017
Spectrum Analyzer	hde & Schwarz	ESCI	100010/007	Jul. 22, 2016	Jul. 21, 2017
Power Meter Ani	ritsu	ML2495A	25406005	Jul. 22, 2016	Jul. 21, 2017
Power Sensor Ani	ritsu	ML2411B	25406005	Jul. 22, 2016	Jul. 21, 2017



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4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

4.1.2 Test Limit

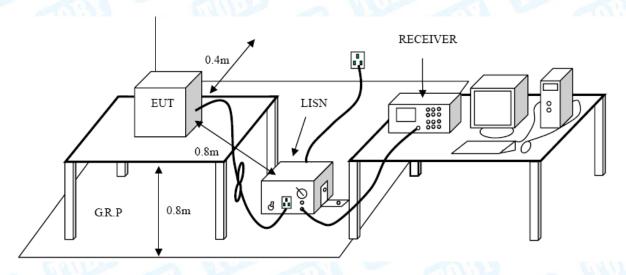
Conducted Emission Test Limit

	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.



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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

Test data please refer the following pages.



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UT:	Allspoi	rt Watch		Mode	el:		#C70120
Temperature:	25℃	Call	33	Relat	ive Hum	idity:	55%
Test Voltage:	AC 12	0V/60 Hz	100	1	(FI	TI'S	
Terminal:	Line		MAGE		16		MILL
Test Mode:	Chargi	ing with TX	GFSK Mode	2402 MHz		0	I LUCA
Remark:	Only w	orse case is	s reported	Control		199	
30			Proportion of the contract of	egeneral popular series de la compessión		QP: AVG:	Managaran pea
-20 0.150	0.5 Erog	Reading		Measure-	Limit	Over	30.000
0.150 No. Mk.	Freq.	Level	Correct Factor	Measure- ment	Limit	Over	
0.150 No. Mk.	Freq.	Level dBuV	Correct Factor	Measure- ment	dBuV	dB	Detector
0.150 No. Mk. 1 0.	Freq. MHz 2380	dBuV 33.69	Correct Factor dB 10.11	Measure- ment dBuV 43.80	dBuV 62.16	dB -18.36	Detector QP
0.150 No. Mk. 1 0. 2 0.	Freq. MHz 2380 2380	dBuV 33.69 18.99	Correct Factor dB 10.11	Measure- ment dBuV 43.80 29.10	dBuV 62.16 52.16	dB -18.36 -23.06	Detector QP AVG
0.150 No. Mk. 1 0. 2 0. 3 0.	Freq. MHz 2380 2380 3060	dBuV 33.69 18.99 34.81	Correct Factor dB 10.11 10.11 10.08	Measure- ment dBuV 43.80 29.10 44.89	dBuV 62.16 52.16 60.08	dB -18.36 -23.06 -15.19	Detector QP AVG QP
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0.	Freq. MHz 2380 2380	dBuV 33.69 18.99	Correct Factor dB 10.11	Measure- ment dBuV 43.80 29.10	dBuV 62.16 52.16 60.08	dB -18.36 -23.06	Detector QP AVG QP
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0.	Freq. MHz 2380 2380 3060	dBuV 33.69 18.99 34.81	Correct Factor dB 10.11 10.11 10.08	Measure- ment dBuV 43.80 29.10 44.89	dBuV 62.16 52.16 60.08 50.08	dB -18.36 -23.06 -15.19	Detector QP AVG QP
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0.	Freq. MHz 2380 2380 3060	dBuV 33.69 18.99 34.81 18.04	Correct Factor dB 10.11 10.11 10.08 10.08	Measure- ment dBuV 43.80 29.10 44.89 28.12	dBuV 62.16 52.16 60.08 50.08 56.24	dB -18.36 -23.06 -15.19 -21.96	Detector QP AVG QP AVG
0.150 No. Mk. 1 0. 2 0. 3 0. 4 0. 5 * 0. 6 0.	Freq. MHz 2380 2380 3060 3060 4860	dBuV 33.69 18.99 34.81 18.04 36.79	Correct Factor dB 10.11 10.11 10.08 10.08 10.02	Measure- ment dBuV 43.80 29.10 44.89 28.12 46.81	dBuV 62.16 52.16 60.08 50.08 56.24 46.24	dB -18.36 -23.06 -15.19 -21.96 -9.43	Detector QP AVG QP AVG
0.150 No. Mk. 1	Freq. MHz 2380 2380 3060 3060 4860 4860	Level dBuV 33.69 18.99 34.81 18.04 36.79 20.37	Correct Factor dB 10.11 10.11 10.08 10.08 10.02 10.02	Measure- ment dBuV 43.80 29.10 44.89 28.12 46.81 30.39	dBuV 62.16 52.16 60.08 50.08 56.24 46.24 56.00	dB -18.36 -23.06 -15.19 -21.96 -9.43 -15.85	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1	Freq. MHz 2380 2380 3060 3060 4860 4860 9340	Level dBuV 33.69 18.99 34.81 18.04 36.79 20.37 20.36 2.71	Correct Factor dB 10.11 10.11 10.08 10.08 10.02 10.02 10.13 10.13	Measure- ment dBuV 43.80 29.10 44.89 28.12 46.81 30.39 30.49	dBuV 62.16 52.16 60.08 50.08 56.24 46.24 56.00	dB -18.36 -23.06 -15.19 -21.96 -9.43 -15.85 -25.51 -33.16	Detector QP AVG QP AVG QP AVG
0.150 No. Mk. 1	Freq. MHz 2380 2380 3060 3060 4860 4860 9340 9340 3060	Level dBuV 33.69 18.99 34.81 18.04 36.79 20.37 20.36 2.71 21.95	Correct Factor dB 10.11 10.11 10.08 10.02 10.02 10.13 10.13	Measure- ment dBuV 43.80 29.10 44.89 28.12 46.81 30.39 30.49 12.84 32.08	dBuV 62.16 52.16 60.08 50.08 56.24 46.24 56.00 46.00	dB -18.36 -23.06 -15.19 -21.96 -9.43 -15.85 -25.51 -33.16 -23.92	Detector QP AVG QP AVG QP AVG QP AVG
0.150 No. Mk. 1	Freq. MHz 2380 2380 3060 3060 4860 4860 9340	Level dBuV 33.69 18.99 34.81 18.04 36.79 20.37 20.36 2.71	Correct Factor dB 10.11 10.11 10.08 10.08 10.02 10.02 10.13 10.13	Measure- ment dBuV 43.80 29.10 44.89 28.12 46.81 30.39 30.49 12.84	dBuV 62.16 52.16 60.08 50.08 56.24 46.24 56.00 46.00	dB -18.36 -23.06 -15.19 -21.96 -9.43 -15.85 -25.51 -33.16	Detector QP AVG QP AVG QP AVG



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EUT:	Allsport Watch		Mode	el:		#C70120
Temperature:	25 ℃		Relat	ive Humic	dity:	55%
Test Voltage:	AC 120V/60 Hz	'NO	CHI.	ر سانیا	-3	A STATE OF THE PARTY OF THE PAR
Terminal:	Neutral	100	3	611	100	
Test Mode:	Charging with T	X GFSK Mode	2402 MH	7	6	
Remark:	Only worse case	e is reported	MILE		a 1	N. Land
30 dBuV -20 0.150		(MHz)			QP: AVG:	peak AVG
No. Mk. Fr	Reading req. Level	Correct Factor	Measure- ment	Limit	Over	
M	Hz dBuV	dB	dBuV	dBuV	dB	Detector
1 0.29	940 33.17	10.09	43.26	60.41 -	17.15	QP
2 0.29	940 20.41	10.09	30.50	50.41 -	19.91	AVG
3 * 0.48	860 40.01	10.02	50.03	56.24	-6.21	QP
4 0.48	860 27.75	10.02	37.77	46.24	-8.47	AVG
5 0.62	260 24.92	10.02	34.94	56.00 -	21.06	QP
6 0.62	260 24.95	10.02	34.97	56.00 -	21.03	QP
7 0.62	260 7.45	10.02	17.47	46.00 -	28.53	AVG
8 0.62	260 7.51	10.02	17.53	46.00 -	28.47	AVG
9 1.43	340 26.90	10.12	37.02	56.00 -	18.98	QP
10 1.43	340 11.32	10.12	21.44	46.00 -	24.56	AVG
11 2.57	780 21.22	10.06	31.28	56.00 -	24.72	QP
12 2.57	780 6.62	10.06	16.68	46.00 -	29.32	AVG
Emission Level=	Read Level+ Co	rrect Factor				



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EUT:	Allsport	Watch	a Wy	Model:		#C70	0120
Temperature:	25℃	Carl.	13	Relative	Humidity:	55%	A Brown
Test Voltage:	AC 240	V/60 Hz			(III)		
Terminal:	Line		Mille		630	100	
Test Mode:	Chargin	ng with TX (SFSK Mode	2402 MHz		16	A Land
Remark:	Only wo	orse case is	reported				_ (
30 -20 0.150	0.5		(MHz)	5		QP: AVG:	peak AVG 30.000
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit dBuV	Over	Detector
1 0	.3060	34.56	10.02	44.58	60.08 - 1		QP
	.3060	19.96	10.02	29.98	50.08 -2		AVG
	.3660	28.10	10.02	38.12	58.59 -2		QP
	.3660	12.52		22.54	48.59 -2		
			10.02				AVG
	.4300	35.78	10.02	45.80	57.25 -1		QP
	.4300	19.56	10.02	29.58	47.25 -1		AVG
	.5260	28.57	10.03	38.60	56.00 -1		QP
	.5260	12.22	10.03	22.25	46.00 -2		AVG
	.7780	30.13	10.06	40.19	56.00 -1		QP
10 1	.7780	11.27	10.06	21.33	46.00 -2		AVG
	.0740	27.07	10.02	37.09	56.00 -1	8.91	QP
11 3							



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4	N	~	n	77
Cod.			ĸ	V
		U,	U	1
-				-

EUT:	Allsport Watch		Model:		#C70120					
Temperature:	25℃ Relative Humidity: 55%									
Test Voltage:	AC 240V/60 Hz									
Terminal:	Neutral	Neutral								
Test Mode:	Charging with	Charging with TX GFSK Mode 2402 MHz								
Remark:	Only worse ca	se is reported								
30 dBuV -20 0.150	0.5	(MHz)	January Marie Mari		QP: — AVG: — peak AVG					
No. Mk. Fi	Readin req. Level	g Correct Factor	Measure- ment	Limit C	Over					
M	lHz dBu√	dB	dBuV	dBuV	dB Detector					
1 0.3	140 31.16	10.08	41.24	59.86 -18	8.62 QP					
2 0.3	140 18.00	10.08	28.08	49.86 -2	1.78 AVG					
3 0.4	220 32.75	10.05	42.80	57.41 -14	4.61 QP					
4 0.4	220 21.84	10.05	31.89	47.41 -1	5.52 AVG					
5 * 0.4	820 38.48	10.03	48.51	56.30 -7	7.79 QP					
6 0.4	820 25.57	10.03	35.60	46.30 -10	0.70 AVG					
7 0.5	380 34.44	10.02	44.46	56.00 -1	1.54 QP					
8 0.5	380 22.11	10.02	32.13	46.00 -13	3.87 AVG					
9 0.6	220 33.80	10.02	43.82	56.00 -12	2.18 QP					
10 0.6	220 18.85	10.02	28.87	46.00 -17	7.13 AVG					
11 0.6	740 34.25	10.02	44.27	56.00 -1	1.73 QP					
12 0.6	740 19.62	10.02	29.64	46.00 -16	6.36 AVG					
Emission Level=	Read Level+ C	orrect Factor	•							



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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)

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

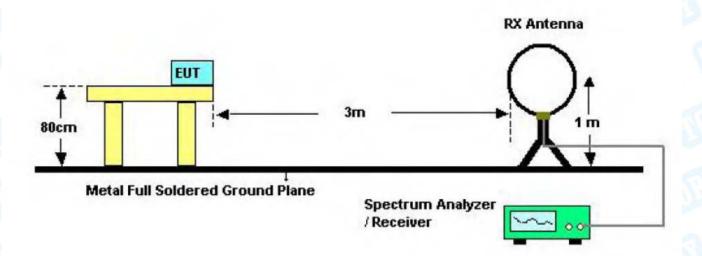
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

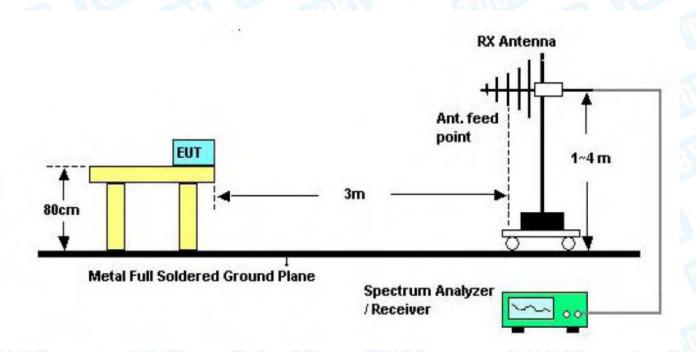


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5.2 Test Setup



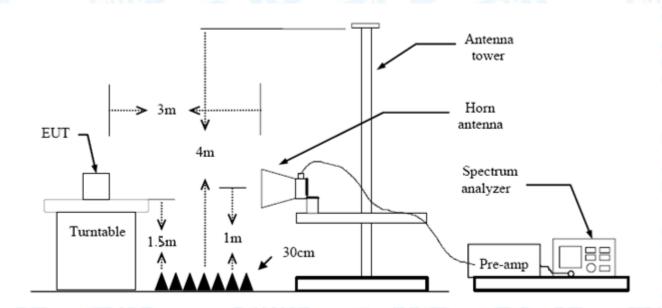
Below 30MHz Test Setup



Below 1000MHz Test Setup



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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.

Test data please refer the following pages.



Page: 21 of 45

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.

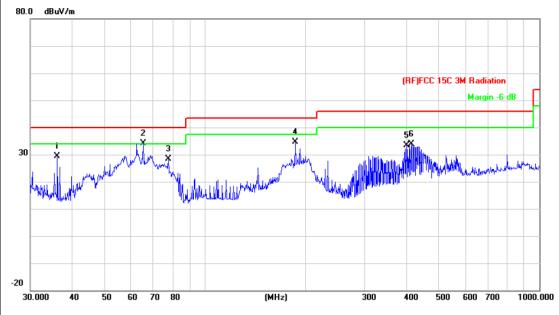
30MHz~1GHz

	Allsport Watch		Model:		#C7012	20
Temperature:	25 ℃	1000	Relative F	lumidity:	55%	
Test Voltage:	DC 3.7V	A HULL		1300		
Ant. Pol.	Horizontal		11100		Alle	
Test Mode:	BLE TX 2402 Mode			TAD.		(5)
Remark:	Only worse case is	reported				
80.0 dBuV/m						
30	1 X 2 X	3 4 5 × × ×		(RF)FCC 15C :	3M Radiation Margin -6 dl	
manapal may be for the	of Pholosophylithelide	N _r mull ^M	A MANAGAMANA MANAGAMANA	the man is a lift there		
-20 30.000 40 5	0 60 70 80 Reading		300 leasure-	400 500	600 700	1000.00
-20 30.000 40 5	Reading Freq. Level	Correct M Factor	leasure- ment	Limit	Over	
-20 30.000 40 5 No. Mk.	Reading Freq. Level	Correct M Factor	leasure- ment dBuV/m	Limit dBuV/m	Over	1000.00
-20 30.000 40 5 No. Mk.	Reading Level MHz dBuV .5356 55.21	Correct M Factor dB/m -24.28	leasure- ment dBuV/m	Limit dBuV/m	Over dB	
-20 30.000 40 5 No. Mk.	Reading Freq. Level	Correct M Factor	leasure- ment dBuV/m	Limit dBuV/m	Over)etecto
No. Mk. F	Reading Level MHz dBuV .5356 55.21	Correct M Factor dB/m -24.28	leasure- ment dBuV/m	Limit dBuV/m 40.00 40.00	Over dB)etecto
No. Mk. F	Reading Level MHz dBuV .5356 55.21 .8653 49.02	Correct M Factor dB/m -24.28 -23.41	leasure- ment dBuV/m 30.93 25.61	Limit dBuV/m 40.00 40.00 -43.50 -	Over dB	Detecto peak peak
No. Mk. F	Reading Level MHz dBuV .5356 55.21 .8653 49.02 3.2050 53.77	Correct M Factor dB/m -24.28 -23.41 -20.70	dBuV/m 30.93 25.61 33.07	Limit dBuV/m 40.00 40.00 43.50 43.50	Over dB	Detecto peak peak peak



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EUT:	Allsport Watch	Model:	#C70120
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		33
Ant. Pol.	Vertical		
Test Mode:	BLE TX 2402 Mode		All Con-
Remark:	Only worse case is reported	and the	
80.0 dBuV/m			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		36.1272	47.40	-17.91	29.49	40.00	-10.51	peak
2	*	65.3431	58.32	-24.12	34.20	40.00	-5.80	peak
3		77.5926	51.81	-23.42	28.39	40.00	-11.61	peak
4		186.4404	54.96	-20.45	34.51	43.50	-8.99	peak
5		400.4318	45.72	-12.33	33.39	46.00	-12.61	peak
6		413.2706	46.28	-12.40	33.88	46.00	-12.12	peak

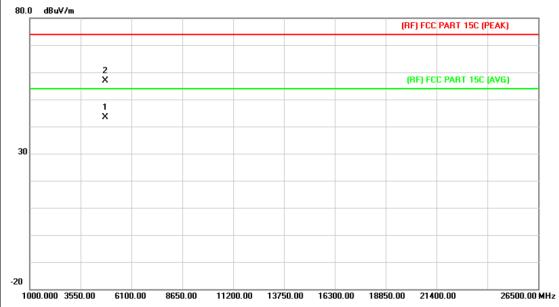
^{*:}Maximum data x:Over limit !:over margin



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Above 1GHz

EUT:	Allsport Watch	Model:	#C70120
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	THUE	
Ant. Pol.	Horizontal		COLLEGE
Test Mode:	BLE Mode TX 2402 MHz		
Remark:	No report for the emission which prescribed limit.	n more than 10 dB belo	w the

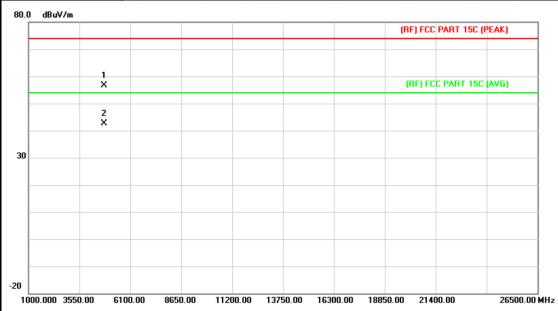


N	o. MI	k. Freq.			Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4804.930	29.84	13.44	43.28	54.00	-10.72	AVG
2		4805.296	43.47	13.45	56.92	74.00	-17.08	peak



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EUT:	Allsport Watch	Model:	#C70120
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		9
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2402 MHz		HILL
Remark:		n which more than 10 dB below	v the
	prescribed limit.		

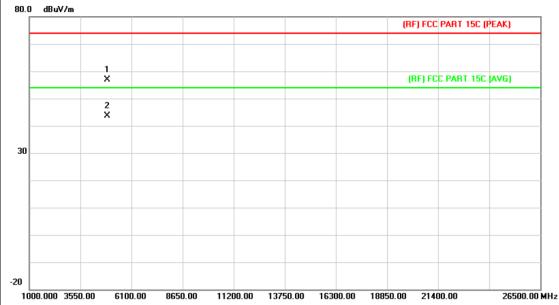


No	. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4804.714	43.20	13.44	56.64	74.00	-17.36	peak
2	*	4805.380	29.18	13.45	42.63	54.00	-11.37	AVG



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EUT:	Allsport Watch	Model:	#C70120			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V	CITE OF	9			
Ant. Pol.	Horizontal	Horizontal				
Test Mode:	BLE Mode TX 2442 MHz		HILL			
Remark:	No report for the emission which more than 10 dB below the					
	prescribed limit.					

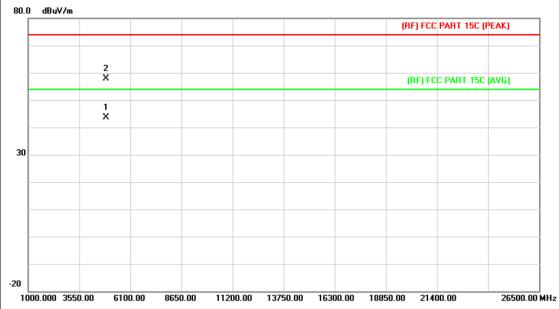


1	No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			4884.243	43.06	13.92	56.98	74.00	-17.02	peak
2		*	4884.426	29.79	13.92	43.71	54.00	-10.29	AVG



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EUT:	Allsport Watch	Model:	#C70120
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V	and the	3
Ant. Pol.	Vertical		
Test Mode:	BLE Mode TX 2442 MHz		Hill
Remark:	No report for the emission which prescribed limit.	h more than 10 dB belo	w the

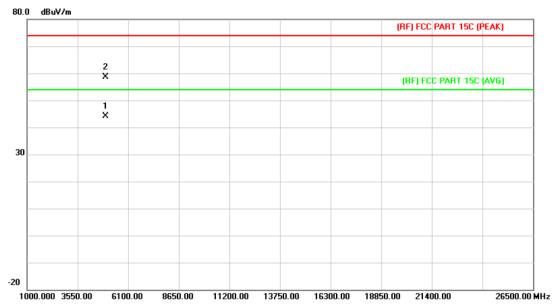


Ν	lo.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
			MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1		*	4883.718	29.82	13.92	43.74	54.00	-10.26	AVG
2			4884.843	43.93	13.92	57.85	74.00	-16.15	peak



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EUT:	Allsport Watch	Model:	#C70120		
Temperature:	25℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V	CITE OF	3		
Ant. Pol.	Horizontal				
Test Mode:	BLE Mode TX 2480 MHz		HILL		
Remark:	No report for the emission which more than 10 dB below the				
	prescribed limit.				
i					

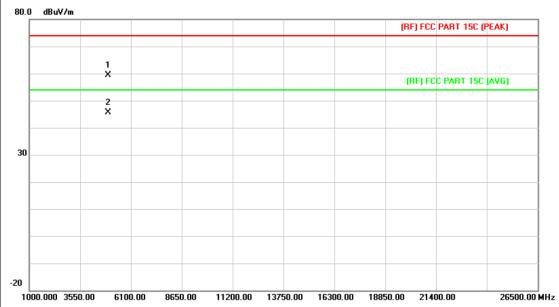


No	o. Mk	. Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.012	29.89	14.36	44.25	54.00	-9.75	AVG
2		4960.903	44.19	14.36	58.55	74.00	-15.45	peak



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EUT:	Allsport Watch	Model:	#C70120		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage:	DC 3.7V	CITE OF	3		
Ant. Pol.	Vertical				
Test Mode:	BLE Mode TX 2480 MHz		HILL		
Remark:	No report for the emission which more than 10 dB below the				
	prescribed limit.				



No	. Mk.	Freq.	Reading Level		Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.889	44.98	14.36	59.34	74.00	-14.66	peak
2	*	4959.985	31.30	14.36	45.66	54.00	-8.34	AVG



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6. Restricted Bands Requirement

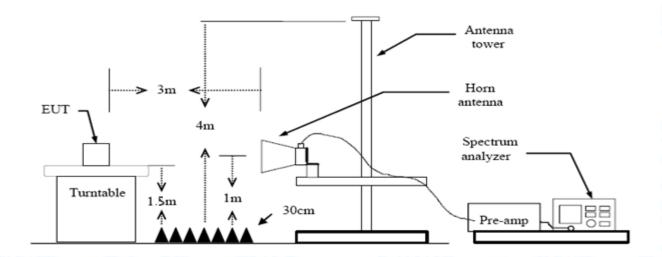
6.1 Test Standard and Limit

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



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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.

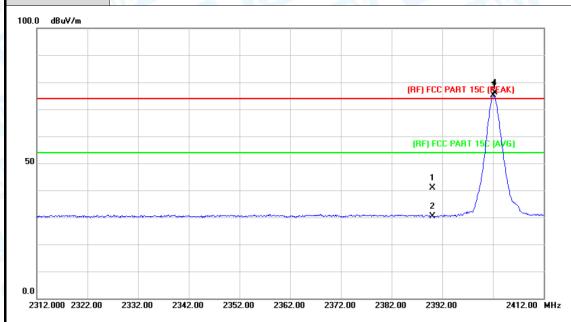
Test data please refer the following pages.



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(1) Radiation Test

EUT:	Allsport Watch	Model:	#C70120
Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		RELEGIE
Test Mode:	BLE Mode TX 2402 MHz		
Remark:	N/A	A VIII	-



No	o. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1		2390.000	40.13	0.77	40.90	74.00	-33.10	peak
2		2390.000	29.73	0.77	30.50	54.00	-23.50	AVG
3	*	2402.100	74.23	0.82	75.05	Fundamental	Frequency	AVG
4	X	2402.300	75.31	0.82	76.13	– Fundamental	Frequency	peak



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EUT:	Allsport Watch		Model:	#C70120		
Temperature:	emperature: 25°C			55%		
Test Voltage:	DC 3.7V	DC 3.7V				
Ant. Pol.	Vertical					
Test Mode:	BLE Mode TX 240	2 MHz		J. Hilliam		
Remark:	N/A			3		
100.0 dBuV/m						
			(RF) FCC PA	RT 15C (PEAK)		
50			(RF) FCC P	ART 15C (AVG)		
			1 X			
			2			
0.0						
2312.000 2322.00	2332.00 2342.00 235	2.00 2362.00	2372.00 2382.00 2392.00	D 2412.00 MH		
	Reading		leasure-			
No. Mk. F	req. Level	Factor	ment Limit	Over		
	MHz dBuV	dB/m	dBuV/m dBuV/m	dB Detecto		
ı						
	0.000 41.17	0.77	41.94 74.00	-32.06 peak		

Emission Level= Read Level+ Correct Factor

77.59

78.71

0.82

0.82

78.41

79.53

Fundamental Frequency

Fundamental Frequency

2402.100

2402.300

3

Χ

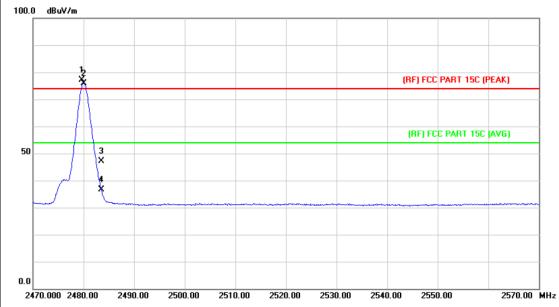
AVG

peak



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EUT: Allsport Watch		Model:	#C70120			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Horizontal					
Test Mode:	Mode: BLE Mode TX 2480 MHz					
Remark:	N/A					

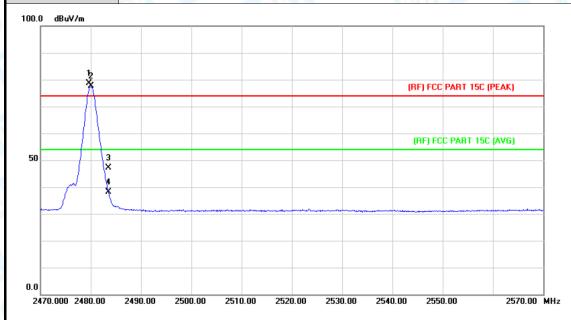


No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	Χ	2479.700	75.91	1.15	77.06	Fundamental	Frequency	peak
2	*	2480.000	74.83	1.15	75.98	- Fundamental	Frequency	AVG
3		2483.500	45.91	1.17	47.08	74.00	-26.92	peak
4		2483.500	35.34	1.17	36.51	54.00	-17.49	AVG



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EUT: Allsport Watch		Model:	#C70120			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Ant. Pol.	Vertical					
Test Mode:	BLE Mode TX 2480 MHz					
Remark:	Remark: N/A					



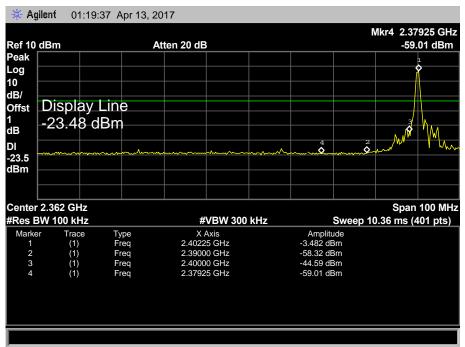
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	2479.700	77.46	1.15	78.61	Fundamental F	requency	peak
2	*	2480.000	76.40	1.15	77.55	Fundamental F	requency	AVG
3		2483.500	45.88	1.17	47.05	74.00	-26.95	peak
4		2483.500	37.00	1.17	38.17	54.00	-15.83	AVG

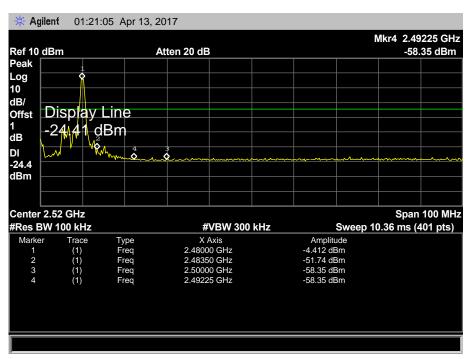


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(2) Conducted Test

EUT:	Allsport Watch	Model:	#C70120			
Temperature:	25℃	Relative Humidity:	55%			
Test Voltage:	DC 3.7V					
Test Mode:	BLE Mode TX 2402MHz / BLE Mode TX 2480MHz					
Remark:	The EUT is programed in continuously transmitting mode					







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7. Bandwidth Test

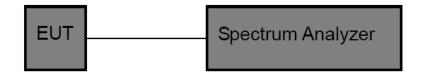
7.1 Test Standard and Limit

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.



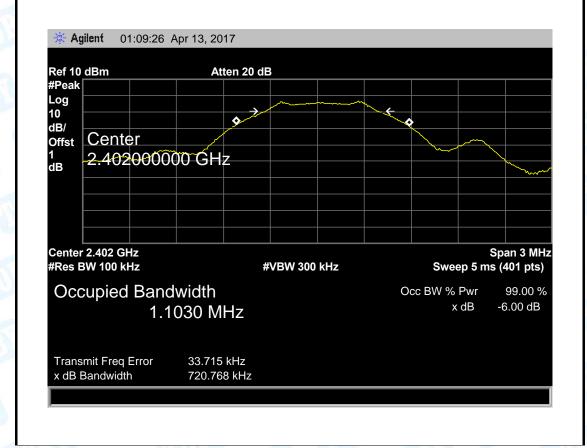
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7.5 Test Data

EUT:	Allsp	ort Watch	Model:	#C70120	
Temperature:	25℃		Relative Humidity:	55%	
Test Voltage:	DC 3	3.7V	THUE	A Brown	
Test Mode:	BLE	TX Mode	WILLIAM STATE	- B	
Channel frequency		6dB Bandwidth	99% Bandwidth	Limit	
(MHz)		(kHz)	(kHz)	(kHz)	
2402		720.768	1103.00		
2442		2442 721.069		>=500	
2480		725.500	1100.50		
RI F Mode					

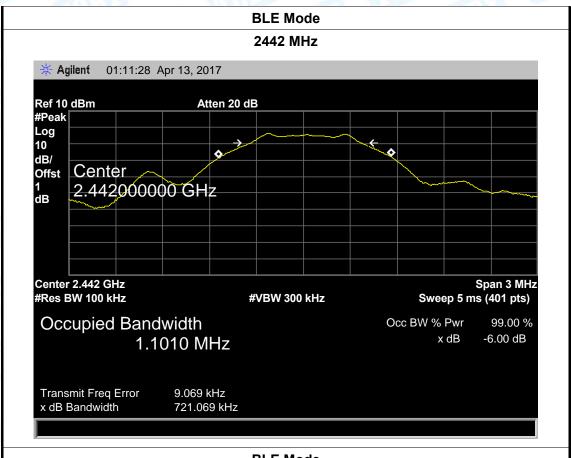
BLE Mode

2402 MHz





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BLE Mode 2480 MHz 🔆 Agilent 01:08:42 Apr 13, 2017 Ref 10 dBm Atten 20 dB #Peak Log 10 dB/ Center Offst 1 dB 2.480000000 GHz Center 2.48 GHz Span 3 MHz #Res BW 100 kHz **#VBW 300 kHz** Sweep 5 ms (401 pts) Occupied Bandwidth Occ BW % Pwr 99.00 % -6.00 dB x dB 1.1005 MHz Transmit Freq Error 6.955 kHz x dB Bandwidth 720.500 kHz



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8. Peak Output Power Test

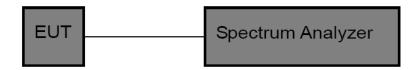
8.1 Test Standard and Limit

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 v04.

- (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.

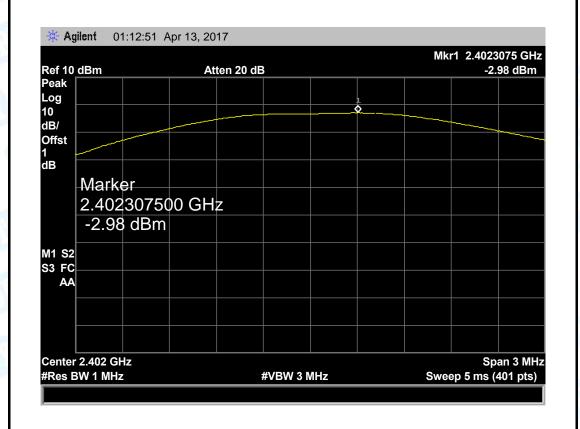


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8.5 Test Data

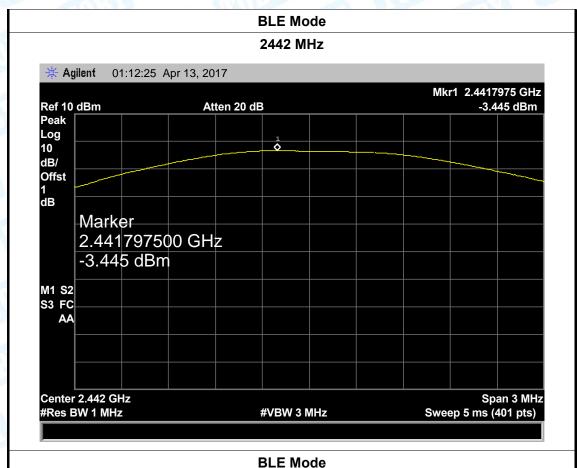
		I WILL STATE OF THE STATE OF TH	VII. 11			
EUT:	Allsport W	/atch	Mod	el:	#C70120	
Temperature:	25 ℃	A VIV	Rela	tive Humidity:	55%	
Test Voltage:	DC 3.7V	ש ב עווה	111		A Branch	
Test Mode:	BLE TX M	lode		(11) 1323	- 8	
Channel frequen	cy (MHz)	Test Result (dBm)		Limit (dBm)		
2402		-2.980				
2442		-3.445		30		
2480		-3.516				
BLE Mode						

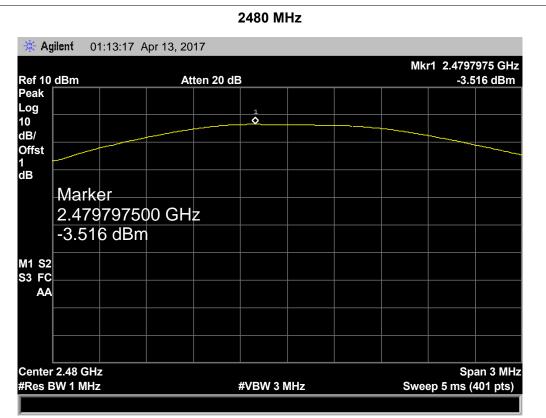






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9. Power Spectral Density Test

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 v04.

- (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 frequenyc.
- (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, Midle and high channel for the test.



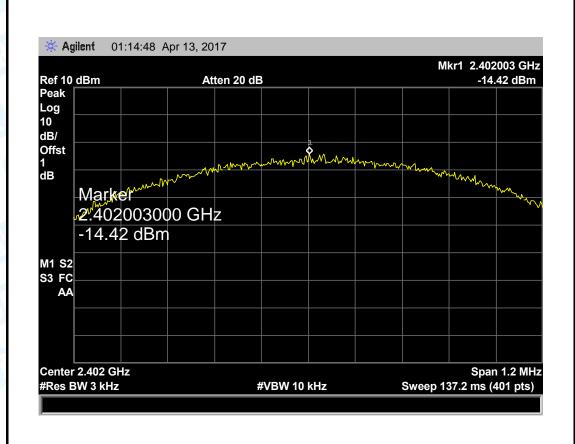
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9.5 Test Data

EUT:	Allsport V	Vatch	Model:	#C70120	
Temperature:	25℃		Relative Humidity:	55%	
Test Voltage:	DC 3.7V				
Test Mode:	BLE TX Mode			63	
Channel Frequency		Power Density	Limit	Result	
(MHz)		(dBm)	(dBm)	Result	
2402		-14.42			
2442		-15.65	8	8 PASS	
2480		-15.11			
		DIE Mada	<u>, </u>	•	

BLE Mode

2402 MHz





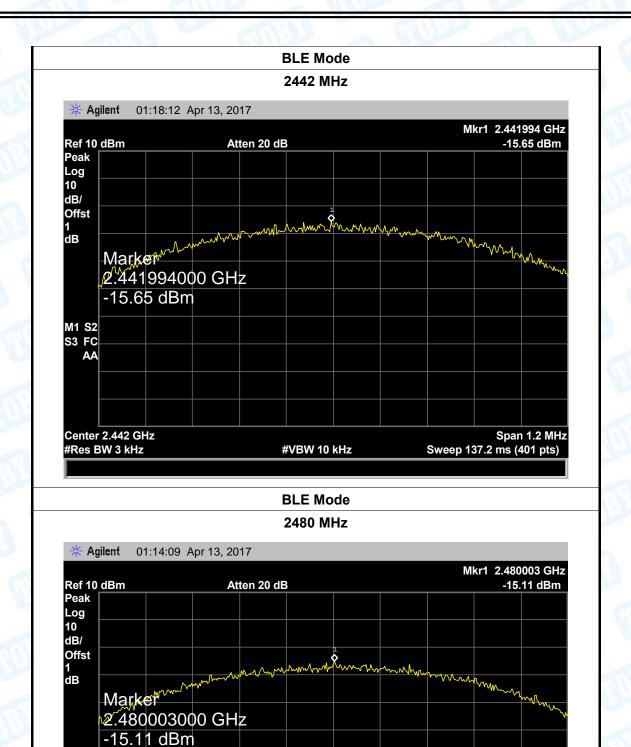
M1 S2 S3 FC AA

Center 2.48 GHz

#Res BW 3 kHz

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#VBW 10 kHz

Span 1.2 MHz

Sweep 137.2 ms (401 pts)



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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 directional gains of the antenna used for transmitting is 0dBi, 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 PCB Antenna. It complies with the standard requirement.

Antenna Type			
) 6	▶ Permanent attached antenna		
MU	□ Unique connector antenna		
	☐ Professional installation antenna		

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