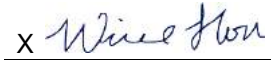


Prüfbericht-Nr.: <i>Test report no.:</i>	CN22SZG1 001	Auftrags-Nr.: <i>Order no.:</i>	168390452	Seite 1 von 21 <i>Page 1 of 21</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-08-03	
Auftraggeber: <i>Client:</i>	eBuyNow eCommerce Limited 1321 Blanshard St Suite 301, Victoria, BC V8W 0B6, Canada			
Prüfgegenstand: <i>Test item:</i>	Moto Watch 70			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	MOSWZ70 (Trademark: Motorola)			
Auftrags-Inhalt: <i>Order content:</i>	FCC and IC approval			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 5 February 2021 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-102 Issue 5 February 2021 CFR47 FCC Part 2.1093			
Wareneingangsdatum: <i>Date of receipt:</i>	2022-09-14	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample No.:</i>	A003335069-001, 002			
Prüfzeitraum: <i>Testing period:</i>	2022-10-18 – 2022-11-01			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	X  Signed by: Alex Lan		genehmigt von: <i>authorized by:</i>	X  Signed by: Winnie Hou
Datum: <i>Date:</i>	2022-12-21		Ausstellungsdatum: <i>Issue date:</i>	2022-12-23
Stellung / Position	Assistant Project Manager		Stellung / Position	Department Manager
Sonstiges / Other:	FCC ID: 2AT76-MOSWZ70 IC: 22297-MOSWZ70 HVIN: MOSWZ70			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V05

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 99%dB BANDWIDTH

RESULT: Pass

5.1.5 6dB BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Conducted & Radiated Testing

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069 and the CAB identifier is CN0078.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2023-09-27
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2023-09-27
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2023-09-27
DC Power Supply	Keysight	E3642A	MY61276100	2023-09-27
Wireless Connectivity Tester	R&S	CMW270	102505	2023-09-27
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2023-09-27
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2023-09-27
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-08-02
Signal Analyzer	R&S	FSV 40	101439	2024-08-01
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2024-08-01
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-08-02
Amplifier	R&S	SCU-18F	180070	2024-08-02
Amplifier	R&S	SCU40A	100475	2024-08-02
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-08-06
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-08-06
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2023-09-07
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-08-06
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

Conducted Emissions

Equipment	Manufacturer	M/N	S/N	Calibrated until
EMI Test Receiver	R&S	ESR3	102680	2023-02-27
Artificial Mains Network	R&S	ENV216	101445	2023-02-27
Artificial Mains Network	R&S	ENV432	101546	2023-02-27
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a smart watch which supports Bluetooth Low Energy technology.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Moto Watch 70
Type Designation	MOSWZ70
Trademark	Motorola
FCC ID	2AT76-MOSWZ70
IC	22297-MOSWZ70
HVIN	MOSWZ70
Operating Voltage	DC 3.87V via built-in Battery DC 5V via power cable for charging
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.0
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	Chip antenna
Antenna Gain	2.28 dBi

Table 3: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth LE transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Charging with normal operating
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- FCC/IC Label and Location Info
- Operation Description
- Photo Document
- Schematics
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model MOSWZ70.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

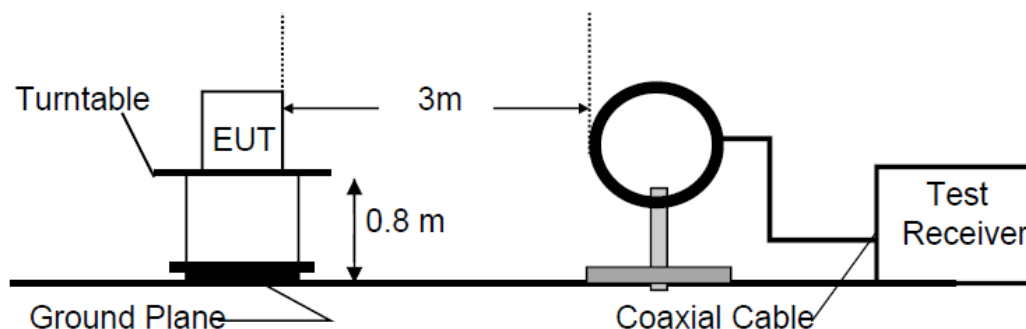


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

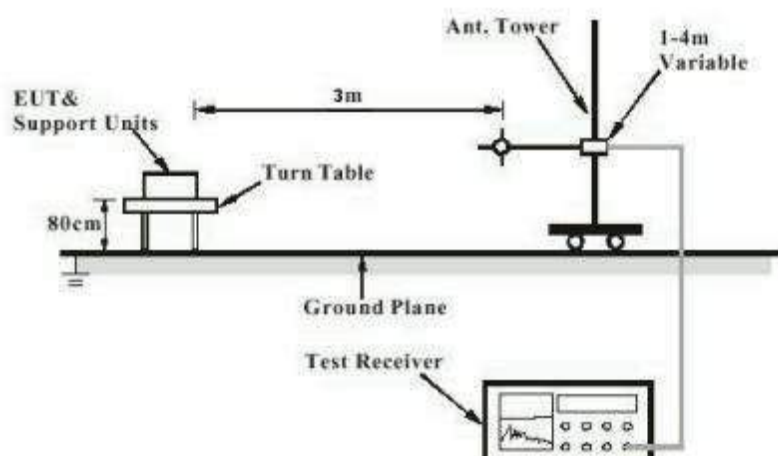


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

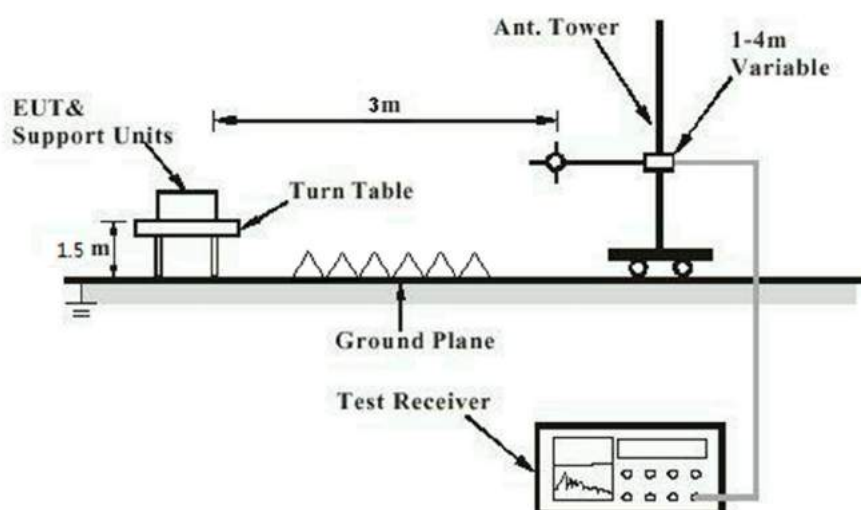


Diagram of Measurement Configuration for Mains Conduction Measurement

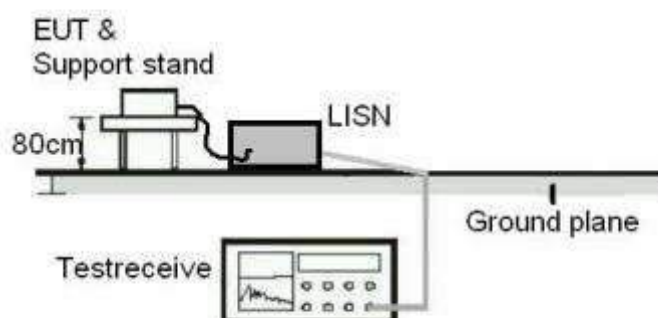
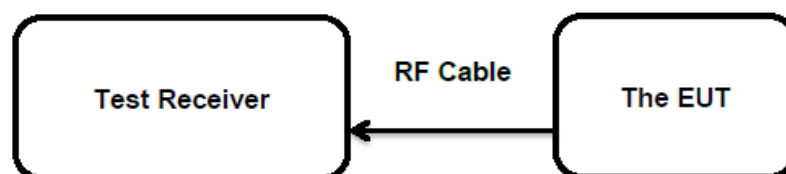


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
	:	RSS-Gen Clause 6.7
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has one integral antenna, the directional gain of antennas are 2.28 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.247(b)(3)
	:	RSS-247 Clause 5.4(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	< 1 Watt (Maximum Conducted Peak Power)
	:	e.i.r.p. <4W
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2022-10-19
Input voltage	:	DC 3.87V via battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	26.2 °C
Relative humidity	:	37 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Peak Conducted Output Power

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (mW)
			(dBm)	(mW)	
Bluetooth (Low Energy)	1 Mbps	2402	-0.19	0.9572	< 1000
		2440	0.20	1.0471	
		2480	0.61	1.1508	
Bluetooth (Low Energy)	2 Mbps	2402	-0.03	0.9931	
		2440	0.18	1.0423	
		2480	0.56	1.1376	
Maximum Measured Value			0.61	1.1508	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 2.89 dBm less than 4W (36 dBm).

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5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(e) RSS-247 Clause 5.2(b)
Basic standard	:	ANSI C63.10: 2013
Limits	:	8 dBm / 3kHz
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2022-10-19
Input voltage	:	DC 3.87V via battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	26.2 °C
Relative humidity	:	37 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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5.1.4 99%dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: RSS-Gen clause 6.7
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-10-19
Input voltage	: DC 3.87V via battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 37 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

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5.1.5 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(a)(2)
	:	RSS-247 Clause 5.2(a)
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2022-10-19
Input voltage	:	DC 3.87V via battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	26.2 °C
Relative humidity	:	37 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-10-19
Input voltage	: DC 3.87V via battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 26.2 °C
Relative humidity	: 37 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

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5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	:	ANSI C63.10: 2013
Limits	:	Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2022-11-01
Input voltage	:	DC 3.87V via battery
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-10-18
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 25.0 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Pass****Test Specification**

Test standard : FCC KDB Publication 447498 v06
CFR47 FCC Part 2: Section 2.1093
CFR47 FCC Part 1: Section 1.1310
RSS-102 Issue 5 March 2015

The measured maximum conducted output power of the EUT is 0.61dBm $\approx$ 1.15mW, which is far below the SAR exclusion threshold level 10mW (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq$ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

The measured maximum specified e.i.r.p of the EUT is 2.89dBm $\approx$ 1.95mW, which is far below the SAR exclusion threshold level 4mW, hence the EUT is excluded from SAR evaluation according to RSS-102 Issue 5 section 2.5.1.

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.97	≤8.00	PASS
		2440	-12.83	≤8.00	PASS
		2480	-11.61	≤8.00	PASS
BLE_2M	Ant1	2402	-14.8	≤8.00	PASS
		2440	-15.53	≤8.00	PASS
		2480	-15.18	≤8.00	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440





Appendix B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.652	2401.672	2402.324	0.5	PASS
		2440	0.644	2439.672	2440.316	0.5	PASS
		2480	0.684	2479.656	2480.340	0.5	PASS
BLE_2M	Ant1	2402	1.148	2401.420	2402.568	0.5	PASS
		2440	1.060	2439.504	2440.564	0.5	PASS
		2480	1.120	2479.440	2480.560	0.5	PASS

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440





Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0327	2401.4785	2402.5112	---	---
		2440	1.0642	2439.4608	2440.5250	---	---
		2480	1.0480	2479.4738	2480.5218	---	---
BLE_2M	Ant1	2402	2.0603	2400.9803	2403.0406	---	---
		2440	2.0655	2438.9818	2441.0473	---	---
		2480	2.0859	2478.9689	2481.0548	---	---

BLE_1M Ant1 2402



BLE_1M Ant1 2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



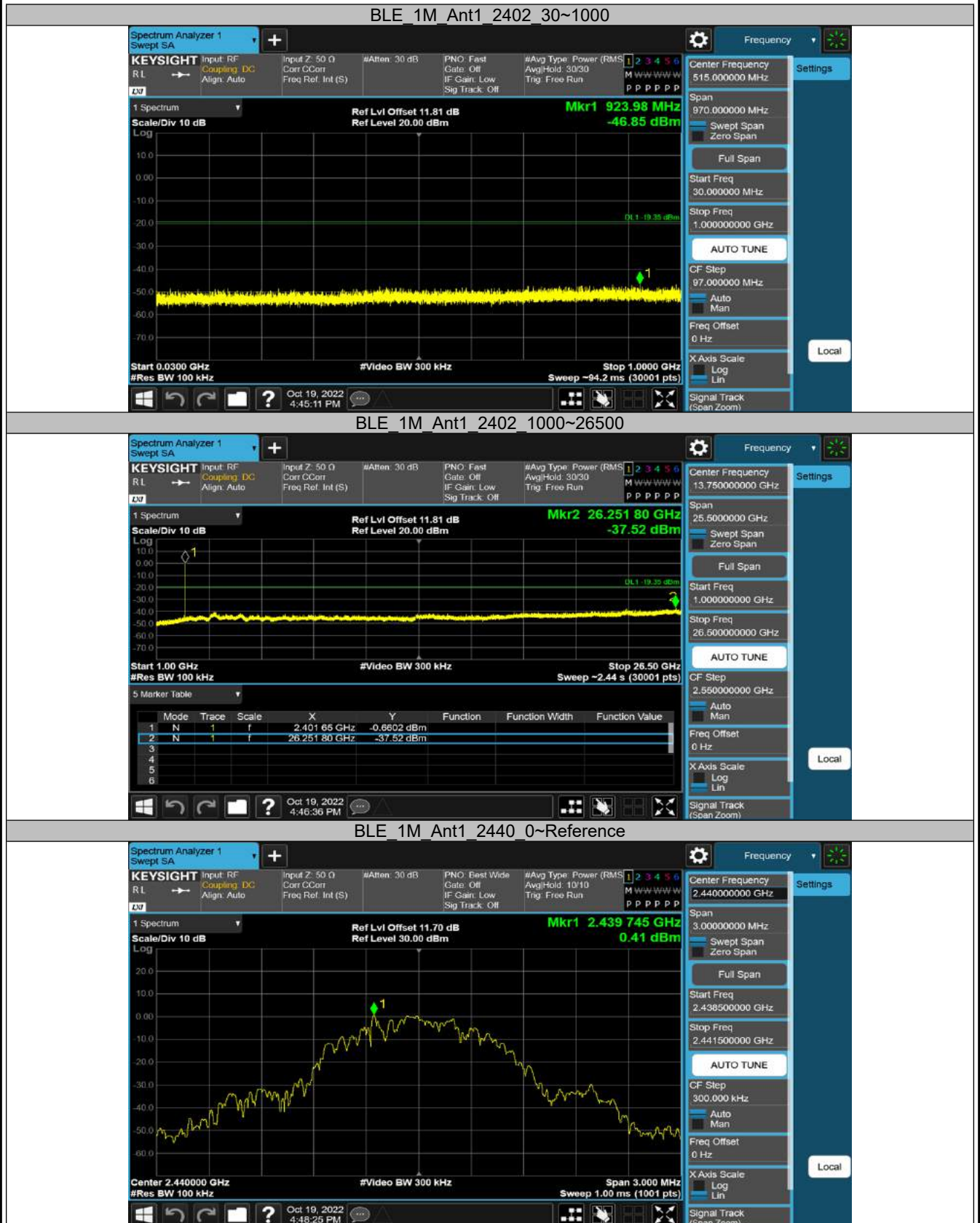
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.65	0.65	---	PASS
			30~1000	0.65	-46.85	≤-19.35	PASS
			1000~26500	0.65	-37.52	≤-19.35	PASS
		2440	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-46.2	≤-19.58	PASS
			1000~26500	0.42	-37.58	≤-19.58	PASS
		2480	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-46.85	≤-19.96	PASS
			1000~26500	0.04	-37.14	≤-19.96	PASS
BLE_2M	Ant1	2402	Reference	-1.37	-1.37	---	PASS
			30~1000	-1.37	-46.13	≤-21.37	PASS
			1000~26500	-1.37	-37.35	≤-21.37	PASS
		2440	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-46.48	≤-22.61	PASS
			1000~26500	-2.61	-38.04	≤-22.61	PASS
		2480	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-46.69	≤-18.61	PASS
			1000~26500	1.39	-37.87	≤-18.61	PASS

BLE 1M Ant1 2402 0~Reference





BLE_1M_Ant1_2440_30~1000



BLE_1M_Ant1_2440_1000~26500



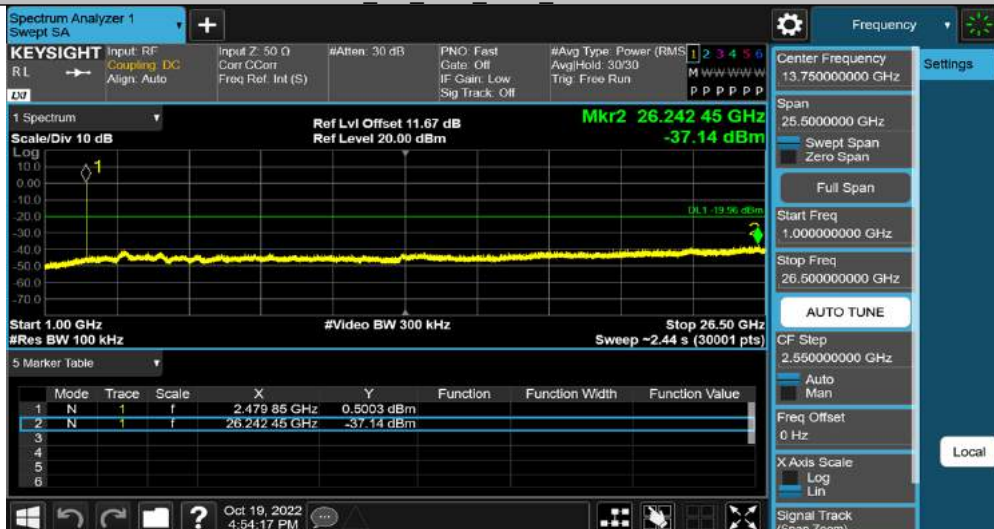
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



BLE_2M_Ant1_2402_0~Reference



BLE_2M_Ant1_2402_30~1000



BLE_2M_Ant1_2402_1000~26500



BLE_2M_Ant1_2440_0~Reference



BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



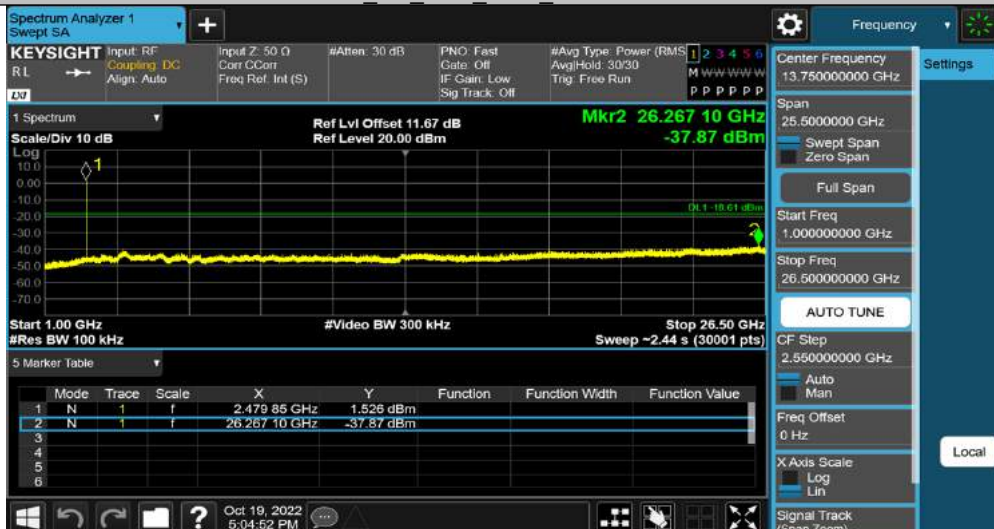
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000



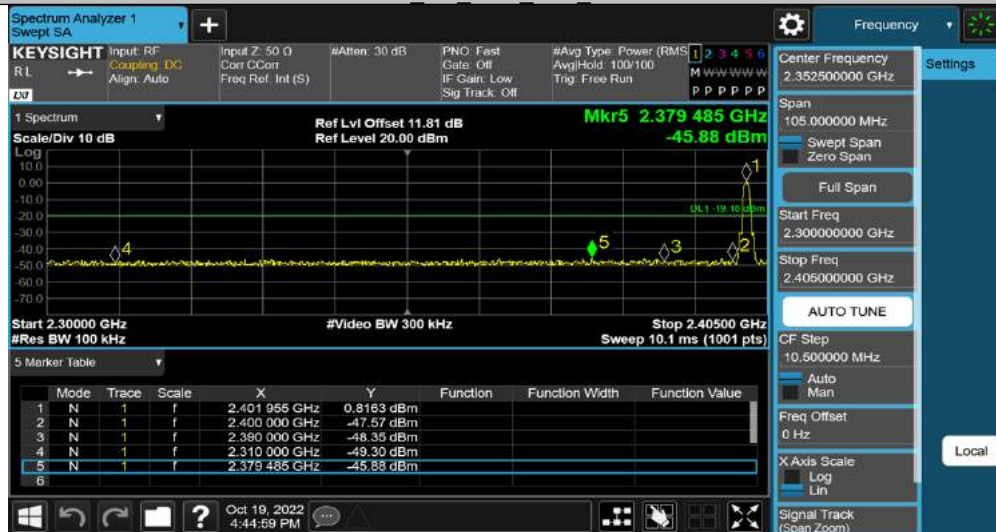
BLE_2M_Ant1_2480_1000~26500



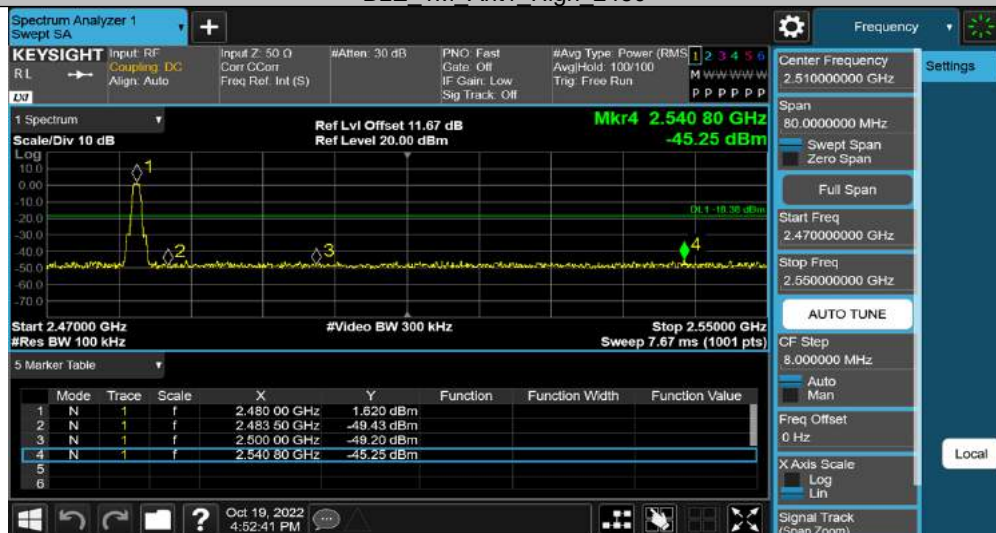
Band Edge

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.82	-45.88	≤-19.18	PASS
		High	2480	1.62	-45.25	≤-18.38	PASS
BLE_2M	Ant1	Low	2402	0.80	-30.67	≤-19.2	PASS
		High	2480	1.33	-45.36	≤-18.67	PASS

BLE 1M Ant1 Low 2402



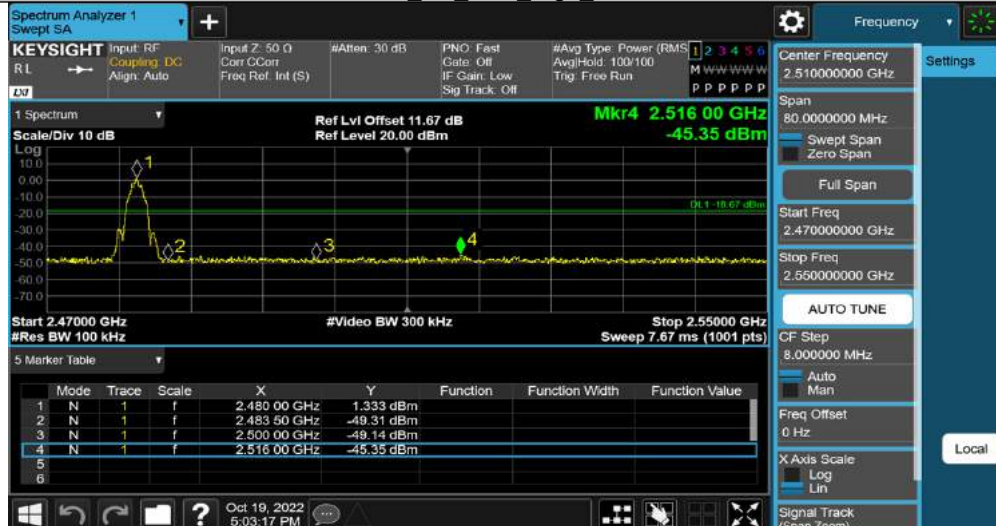
BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402



BLE 2M Ant1 High 2480



Appendix B.5: Test Results of Radiated Spurious Emissions

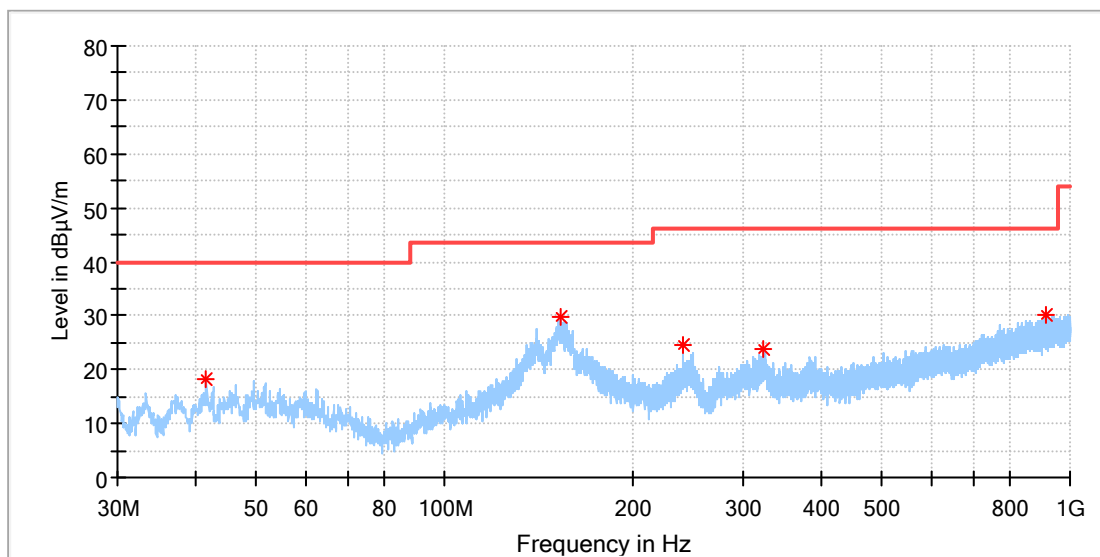
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz to 1GHz

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

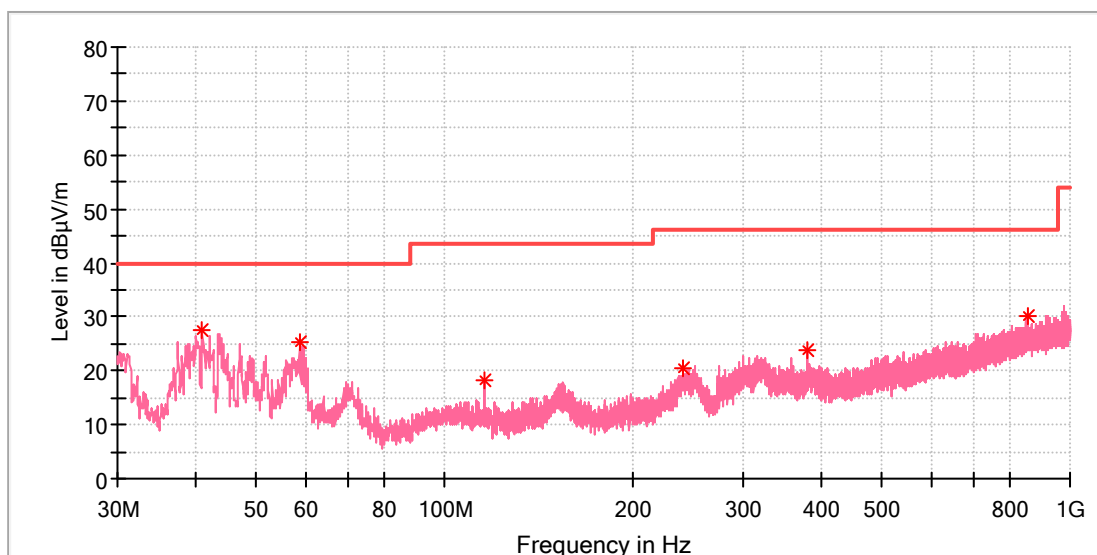


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
41.591500	18.32	40.00	21.68	100.0	H	260.0	-19.7
153.335500	29.63	43.50	13.87	100.0	H	337.0	-22.0
240.393000	24.43	46.00	21.57	100.0	H	298.0	-17.7
323.085500	23.74	46.00	22.26	100.0	H	226.0	-15.7
912.748500	30.25	46.00	15.75	100.0	H	28.0	-4.9

EUT Information

EUT Name: Moto Watch 70
Model: MOSWZ70
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168390452/A003335069-002
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

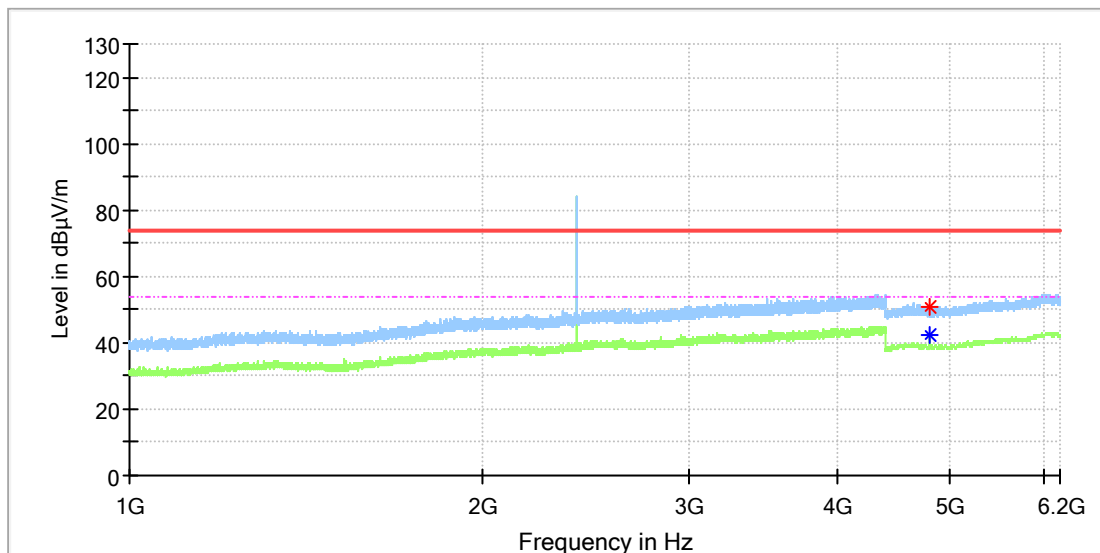
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
40.961000	27.54	40.00	12.46	100.0	V	0.0	-19.9
58.566500	25.36	40.00	14.64	100.0	V	98.0	-18.8
115.602500	18.39	43.50	25.11	100.0	V	32.0	-19.9
240.199000	20.29	46.00	25.71	100.0	V	161.0	-17.7
381.431000	23.66	46.00	22.34	100.0	V	340.0	-14.2
855.130500	30.09	46.00	15.91	100.0	V	303.0	-5.4

1GHz-18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

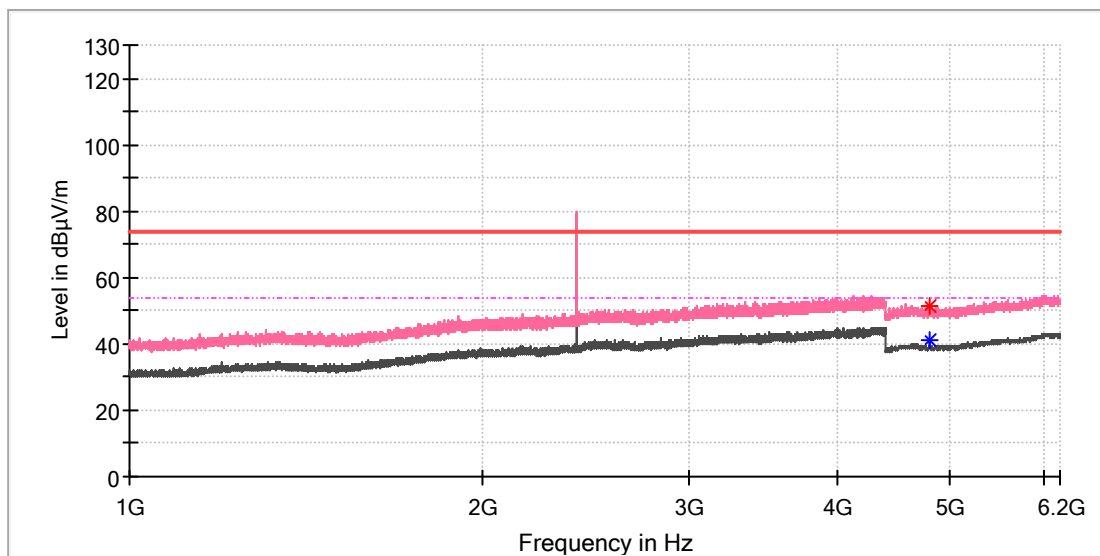


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	---	42.58	54.00	11.42	100.0	H	308.0	11.8
4809.000000	50.57	---	74.00	23.43	100.0	H	274.0	11.8

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

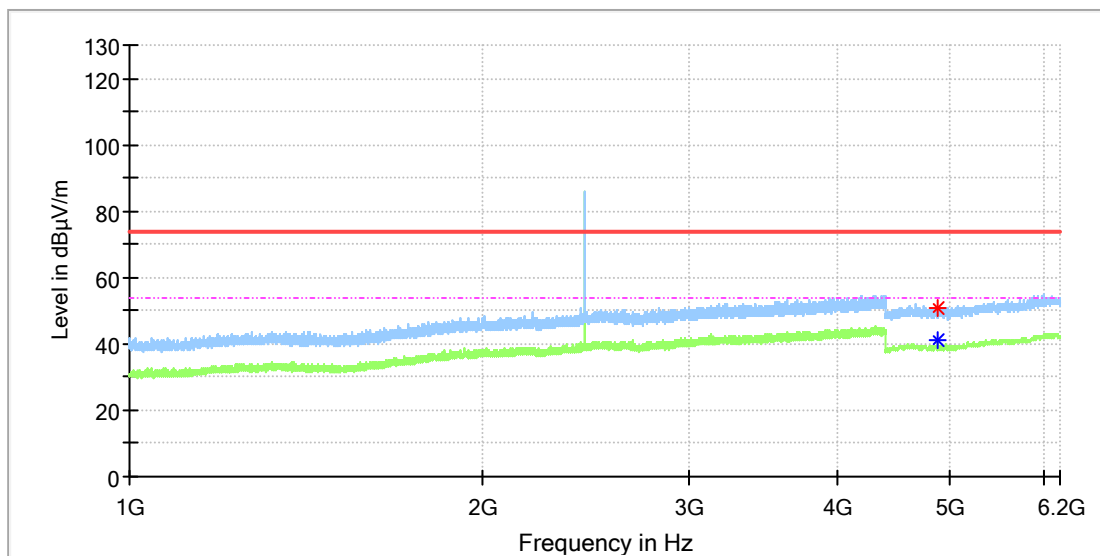


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	---	41.34	54.00	12.66	100.0	V	112.0	11.8
4810.500000	51.21	---	74.00	22.79	100.0	V	247.0	11.8

EUT Information

EUT Name: Moto Watch 70
Model: MOSWZ70
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 168390452/A003335069-002
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

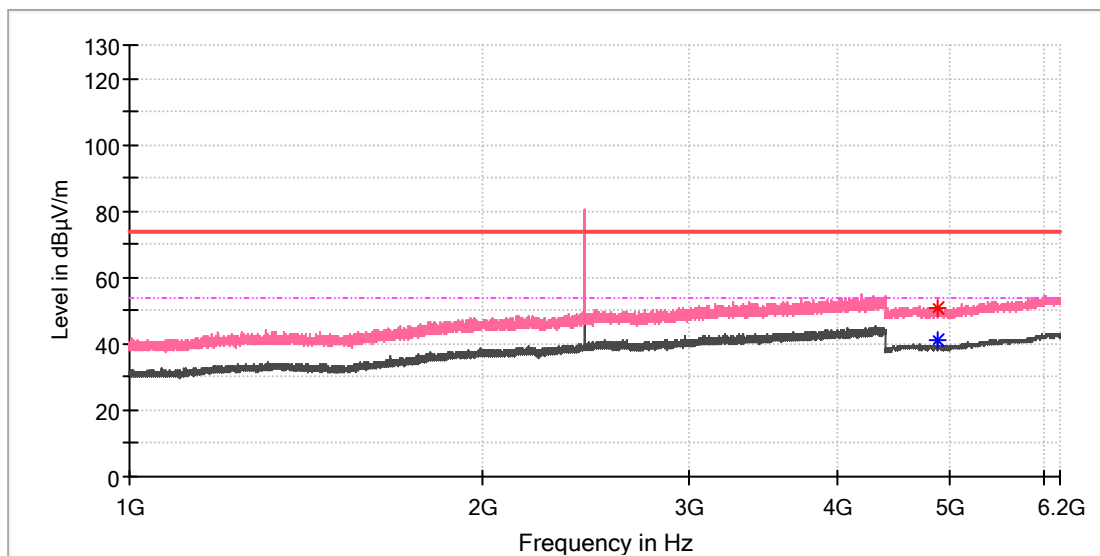


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	50.61	---	74.00	23.39	100.0	H	278.0	11.8
4880.000000	---	41.25	54.00	12.75	100.0	H	278.0	11.8

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

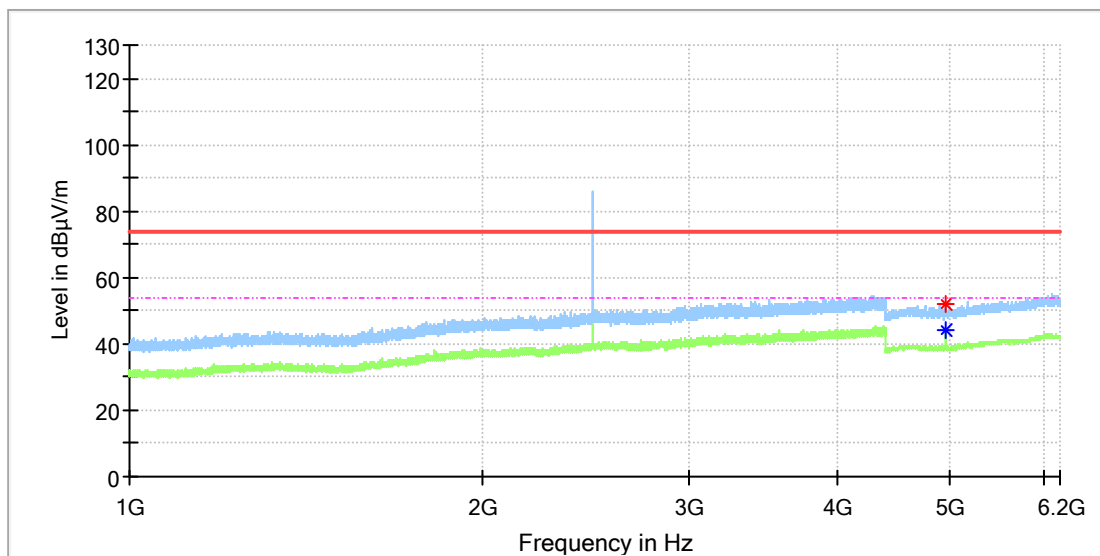


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	50.97	---	74.00	23.03	100.0	V	314.0	11.8
4880.000000	---	41.04	54.00	12.96	100.0	V	314.0	11.8

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

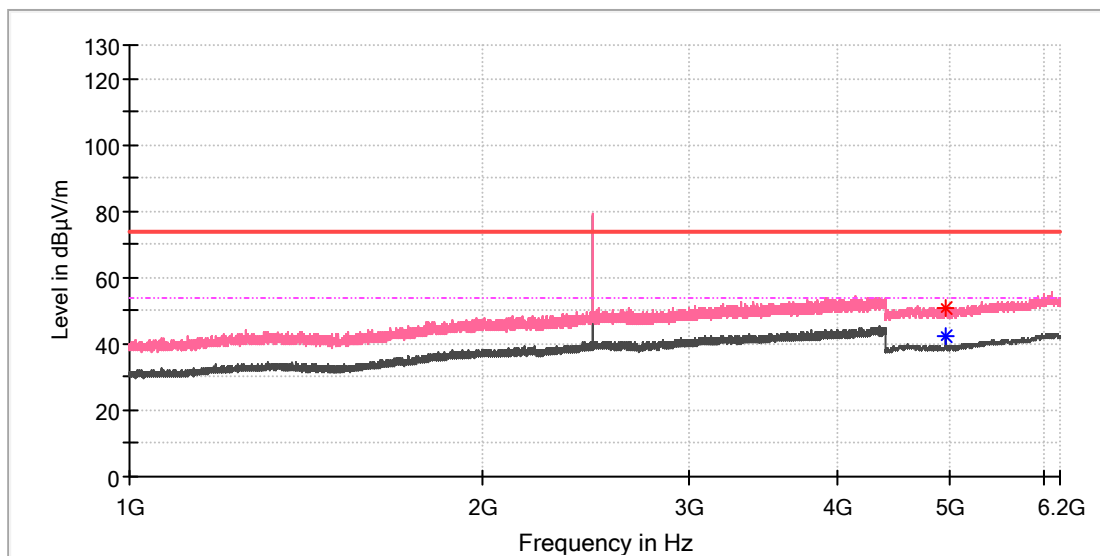


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	51.82	---	74.00	22.18	100.0	H	1.0	11.8
4960.000000	---	43.87	54.00	10.13	100.0	H	1.0	11.8

EUT Information

EUT Name: Moto Watch 70
Model: MOSWZ70
Test Mode: BLE 1M_High channel
Order No/Sample No: 168390452/A003335069-002
Test Voltage:: Battery
Remark: Temp 23 Humi:56%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

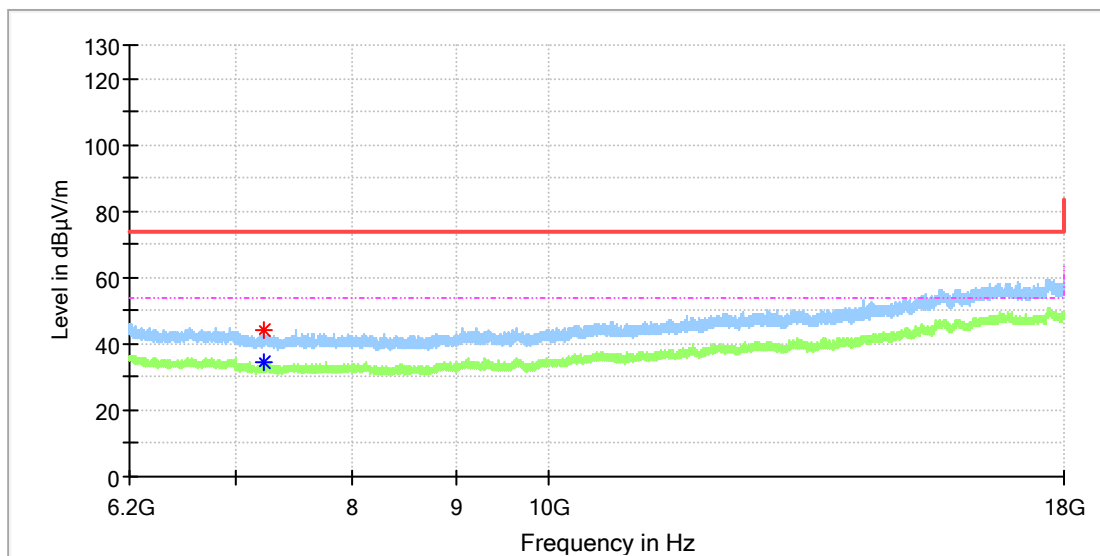


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	51.00	---	74.00	23.00	100.0	V	83.0	11.8
4960.000000	---	42.33	54.00	11.67	100.0	V	83.0	11.8

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

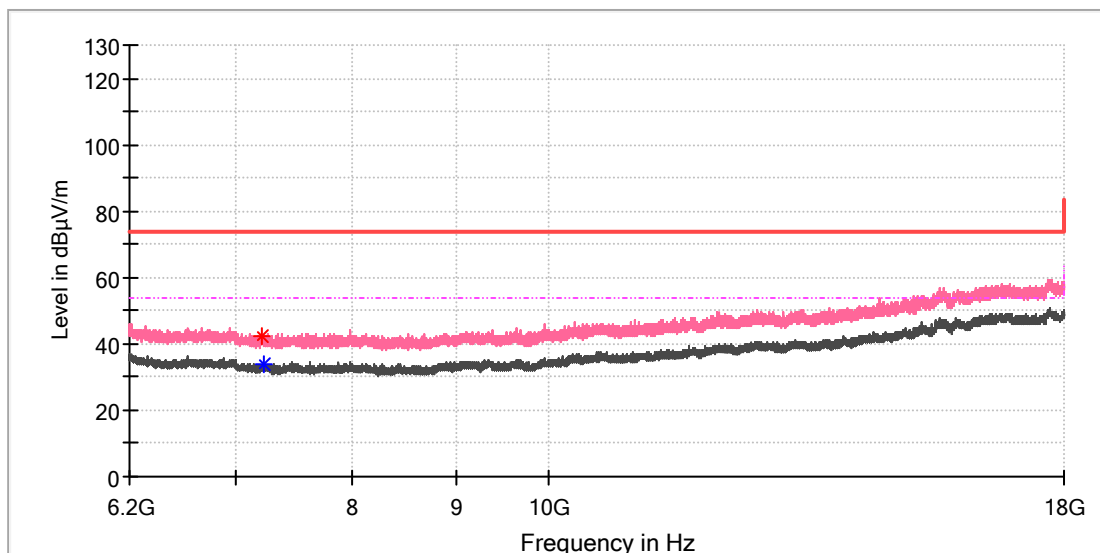


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7218.733333	44.16	---	74.00	29.84	100.0	H	307.0	8.7
7224.633333	---	34.32	54.00	19.68	100.0	H	0.0	8.7

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

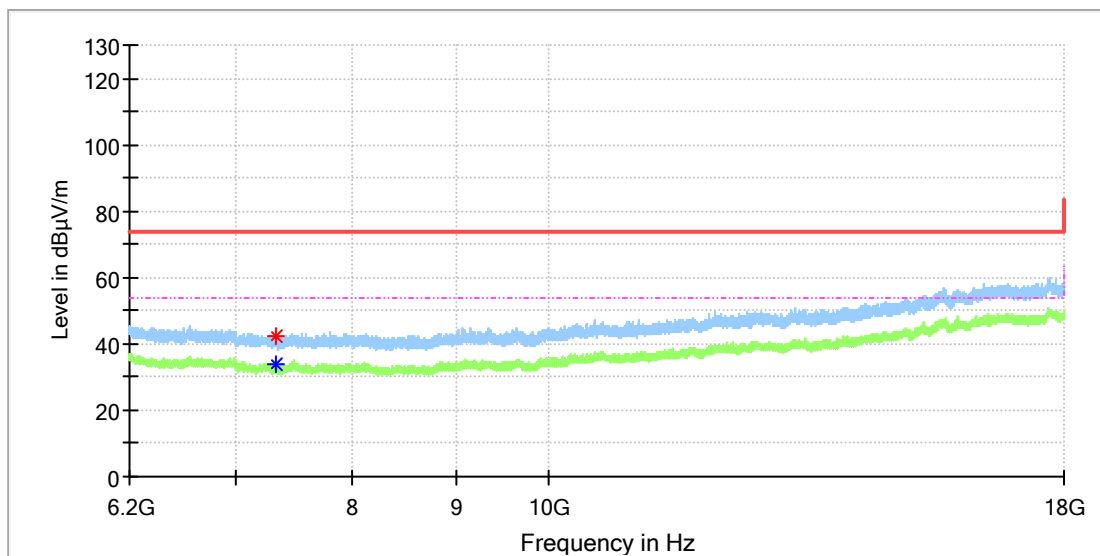


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7211.358333	42.51	---	74.00	31.49	100.0	V	175.0	8.7
7220.208333	---	33.93	54.00	20.07	100.0	V	175.0	8.7

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

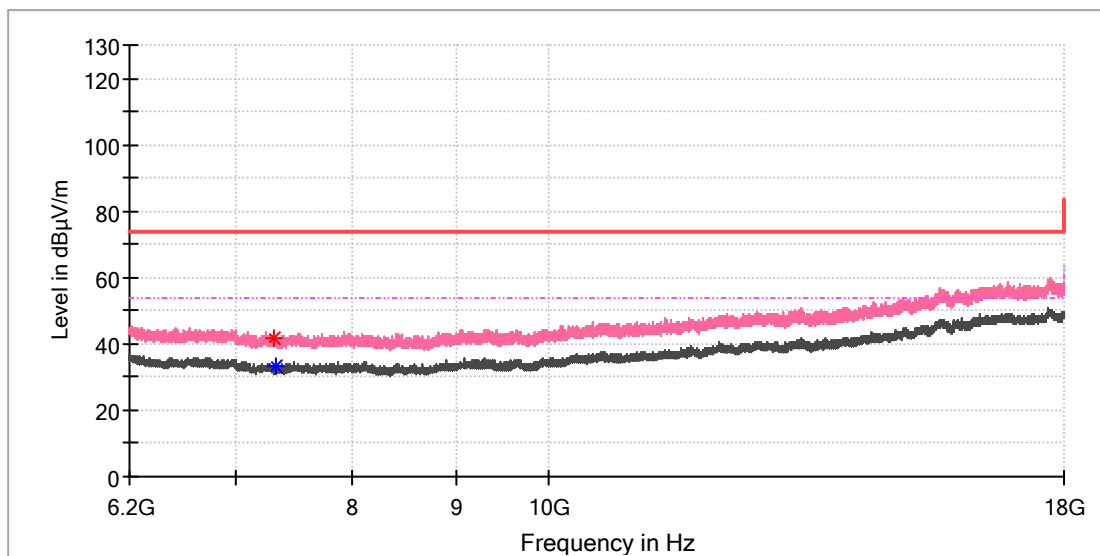


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7329.850000	---	33.64	54.00	20.36	100.0	H	341.0	8.1
7332.800000	42.14	---	74.00	31.86	100.0	H	318.0	8.1

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

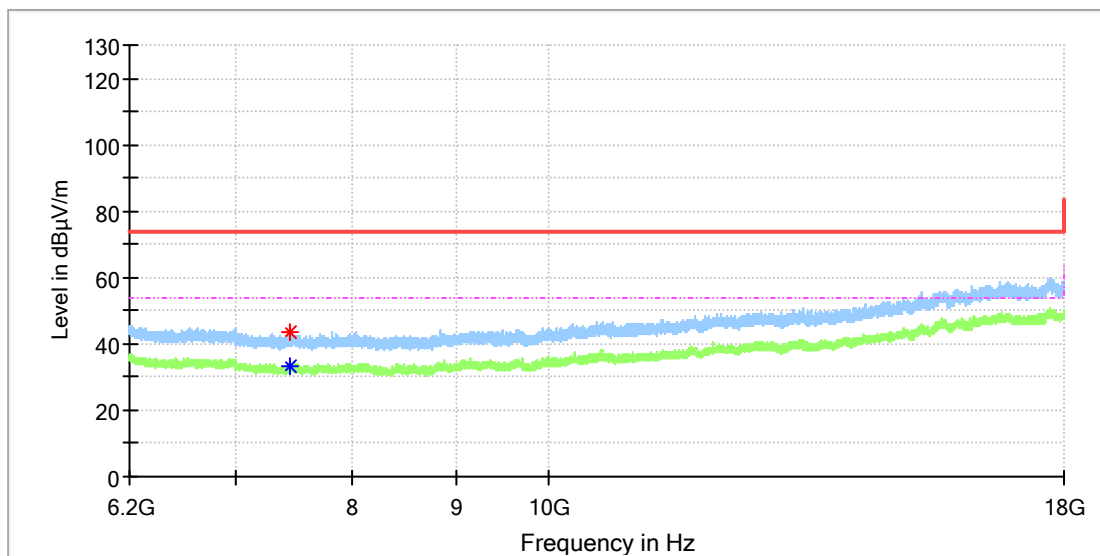


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.166667	41.60	---	74.00	32.40	100.0	V	36.0	8.2
7331.816667	---	33.15	54.00	20.85	100.0	V	218.0	8.1

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

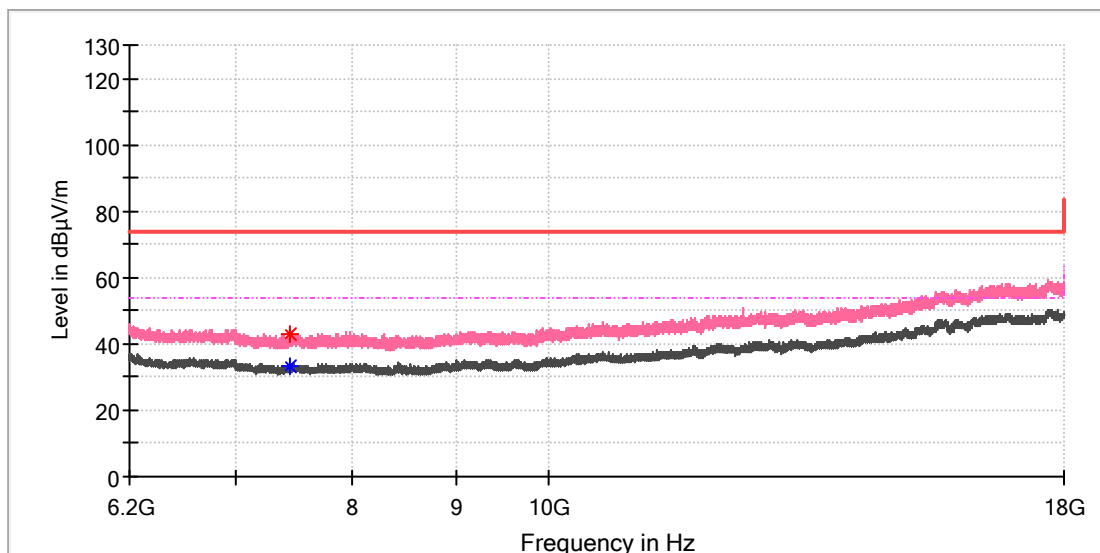


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7436.541667	43.25	---	74.00	30.75	100.0	H	136.0	8.4
7450.308333	---	33.45	54.00	20.55	100.0	H	3.0	8.5

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



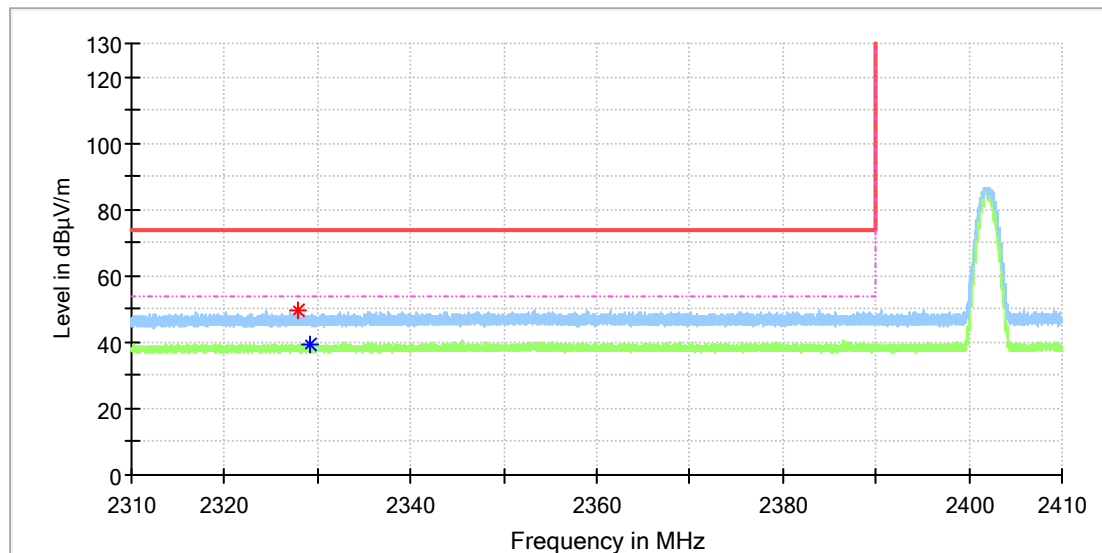
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7438.016667	---	33.52	54.00	20.48	100.0	V	266.0	8.4
7448.341667	42.85	---	74.00	31.15	100.0	V	172.0	8.5

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

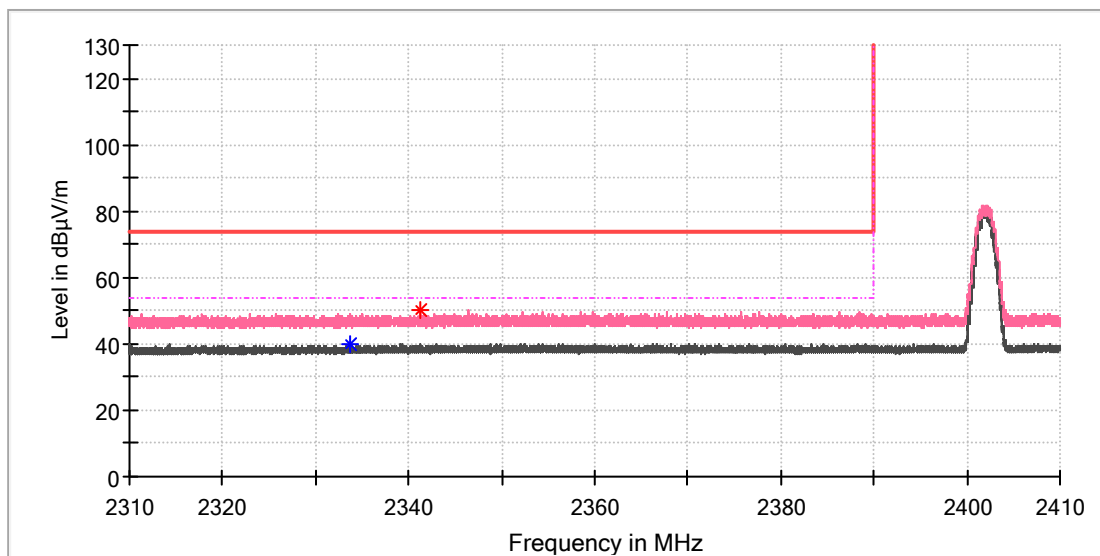


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2327.795000	49.39	---	74.00	24.61	100.0	H	309.0	6.7
2329.150000	---	39.51	54.00	14.49	100.0	H	345.0	6.7

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

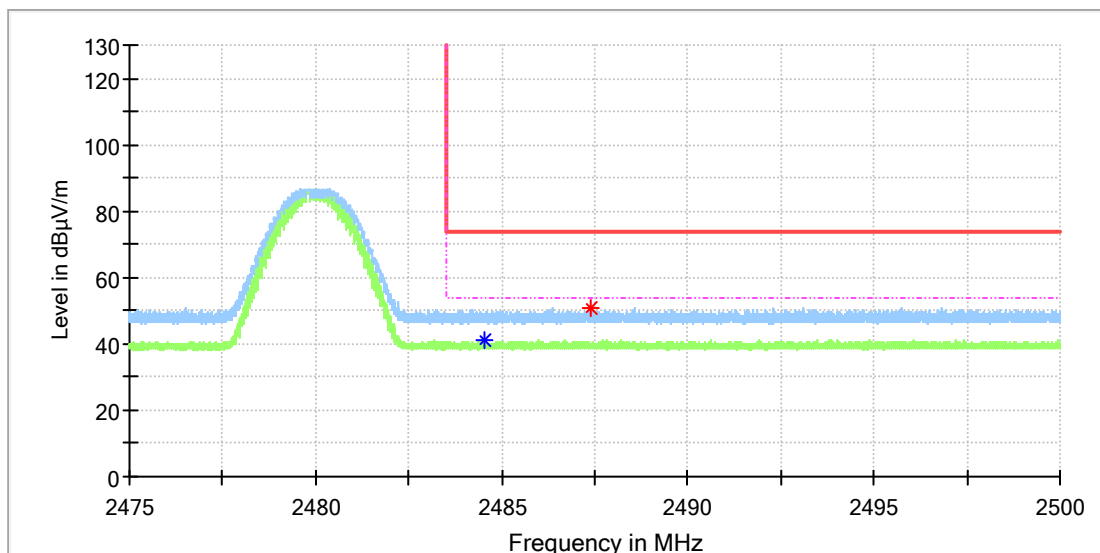


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2333.615000	---	39.73	54.00	14.27	100.0	V	134.0	6.7
2341.340000	49.95	---	74.00	24.05	100.0	V	169.0	6.8

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

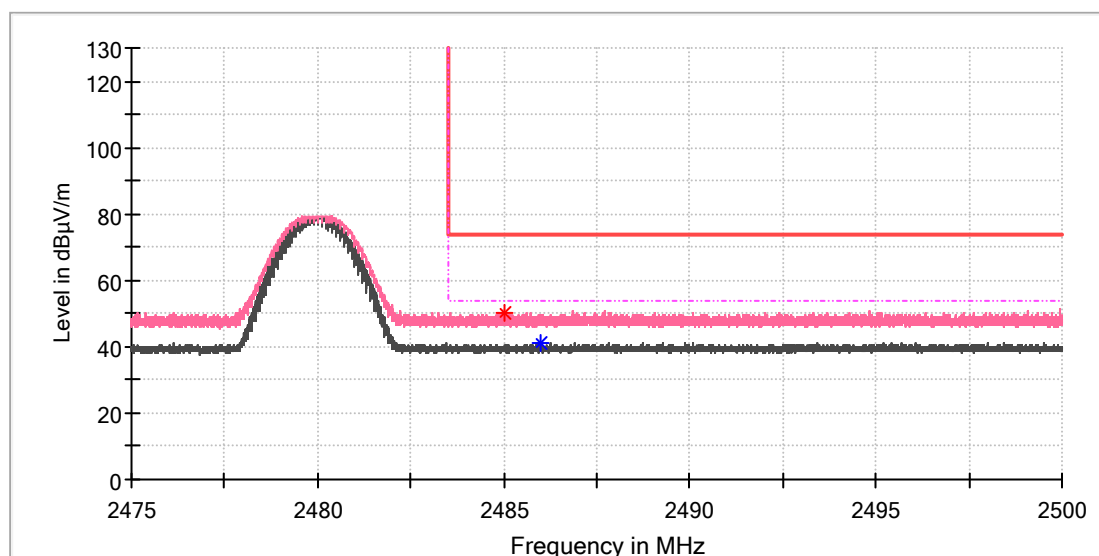


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.515000	---	40.88	54.00	13.12	100.0	H	34.0	7.4
2487.377500	50.64	---	74.00	23.36	100.0	H	150.0	7.4

EUT Information

EUT Name:	Moto Watch 70
Model:	MOSWZ70
Test Mode:	BLE 1M_High channel
Order No/Sample No:	168390452/A003335069-002
Test Voltage::	Battery
Remark:	Temp 23 Humi:56%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



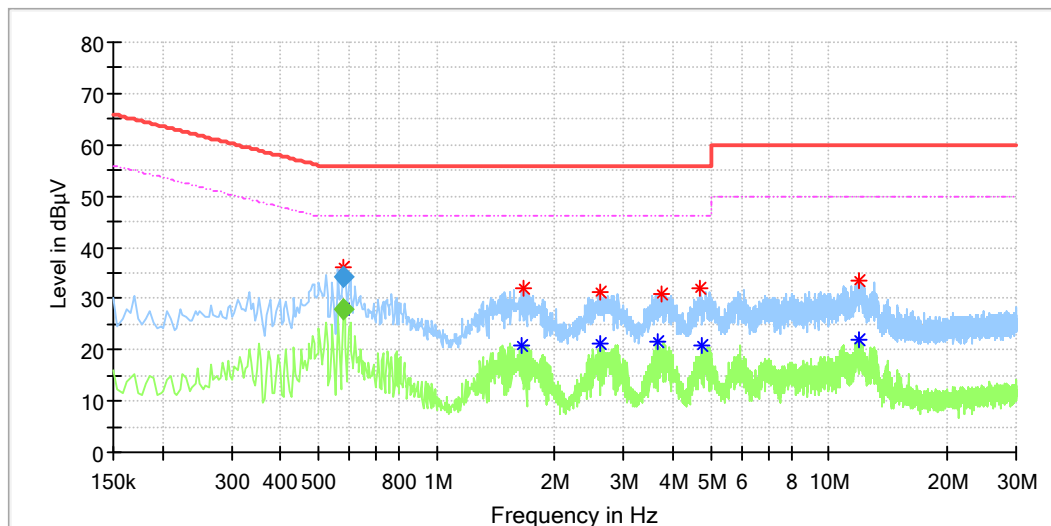
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.003750	50.40	---	74.00	23.60	100.0	V	174.0	7.4
2486.000000	---	40.94	54.00	13.06	100.0	V	174.0	7.4

Appendix B.7: Test Results of Conducted Emission on AC Mains

EUT Information

EUT Name: Moto Watch 70
Model: MOSWZ70
Test Mode: Charging
Test Voltage: AC 120V/60Hz
Test By:/Review By: Kevin Zhou/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 25.0°C/51.2%/101kPa
Remark: SR1



Critical_Freqs

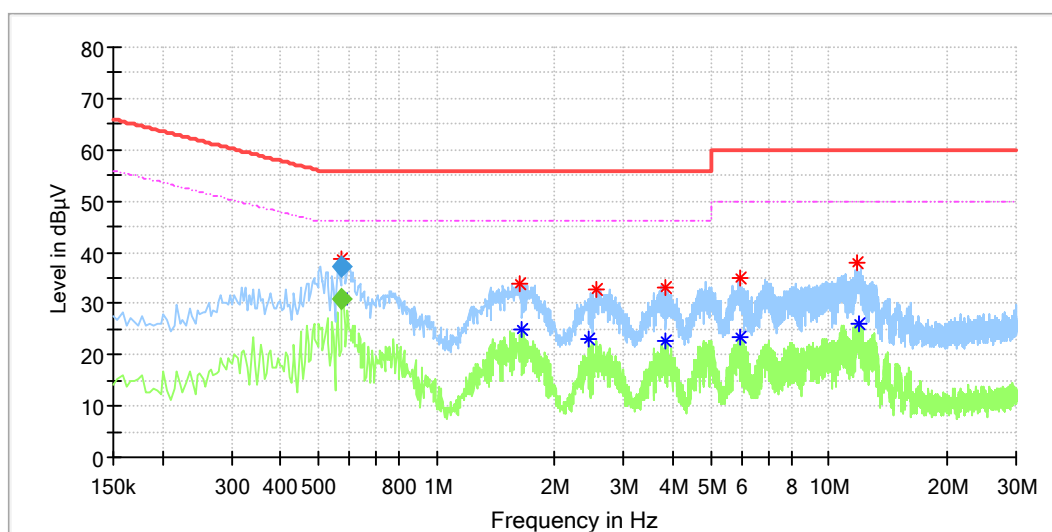
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.581500	36.22	---	56.00	19.78	L1	10.0
0.581500	---	27.96	46.00	18.04	L1	10.0
1.646000	---	20.93	46.00	25.07	L1	10.1
1.666000	32.06	---	56.00	23.94	L1	10.1
2.602000	31.43	---	56.00	24.57	L1	10.2
2.602000	---	21.32	46.00	24.68	L1	10.2
3.654000	---	21.65	46.00	24.35	L1	10.2
3.762000	30.95	---	56.00	25.05	L1	10.2
4.714000	31.88	---	56.00	24.12	L1	10.2
4.758000	---	20.85	46.00	25.15	L1	10.2
11.982000	---	22.10	50.00	27.90	L1	10.3
11.982000	33.50	---	60.00	26.50	L1	10.3

Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.581500	---	28.09	46.00	17.91	1000.0	9.000	L1	10.0
0.581500	34.25	---	56.00	21.75	1000.0	9.000	L1	10.0

EUT Information

EUT Name: Moto Watch 70
Model: MOSWZ70
Test Mode: Charging
Test Voltage: AC 120V/60Hz
Test By:/Review By: Kevin Zhou/Gary Chen
Test Standard: FCC Part 15
Tem./Hum./Pressure: 25.0°C/51.2%/101kPa
Remark: SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.573500	38.65	---	56.00	17.35	N	9.8
0.573500	---	30.82	46.00	15.18	N	9.8
1.626000	33.86	---	56.00	22.14	N	9.8
1.646000	---	25.08	46.00	20.92	N	9.8
2.454000	---	22.98	46.00	23.02	N	9.9
2.562000	32.76	---	56.00	23.24	N	9.9
3.838000	33.06	---	56.00	22.94	N	9.9
3.838000	---	22.60	46.00	23.40	N	9.9
5.954000	34.89	---	60.00	25.11	N	9.9
5.954000	---	23.59	50.00	26.41	N	9.9
11.798000	37.93	---	60.00	22.07	N	10.1
11.930000	---	26.08	50.00	23.92	N	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.573500	---	30.83	46.00	15.17	1000.0	9.000	N	9.8
0.573500	37.03	---	56.00	18.97	1000.0	9.000	N	9.8