

Report No.: SEWM2311000449RG02

Rev.: 01 Page: 1 of 21

TEST REPORT

Application No: SEWM2311000449RG

Applicant: Blue Tees Enterprises, LLC

Address of Applicant: 1990 N California Blvd Suite 20 PMB 1111 Walnut Creek, CA 94596

Manufacturer: GlobalSat WorldCom Corporation

Address of Manufacturer: 16F., No.186, Jian 1st Rd. Zhonghe Dist., New Taipei City 23553 Taiwan

EUT Description: GPS Handheld

Model No.: RINGER

Trade Mark: Blue Tees Golf FCC ID: 2A5DA-RNGR

Standard(s): FCC 47 CFR Part 15, Subpart B

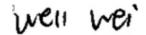
Date of Receipt: 2023/11/06

Date of Test: 2023/11/09 to 2023/11/09

Date of Issue: 2023/11/14

Test Result: Pass*

Authorized Signature:



Well Wei

Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



Report No.: SEWM2311000449RG02

Rev.: 01 Page: 2 of 21

Revision Record								
Version Chapter Date Modifier Rei								
01		2023/11/14		Original				

Prepared By	(King-p Li) / Test Engineer
Checked By	Stone Gu) / Reviewer



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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 3 of 21

Test Summary

Emission Part									
Item Standard Method Requirement Res									
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass					
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass					
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass					

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 4 of 21

Contents

1	General Information	5
	1.1 Description of Support Units 1.2 Test Location 1.3 Test Facility 1.4 Deviation from Standards 1.5 Abnormalities from Standard Conditions	6 6
2	Emission Test Results	7
4	2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) 2.1.1 E.U.T. Operation 2.1.2 Test Setup Procedures 2.1.3 Measurement Data 2.2 Radiated Emissions (30MHz-1GHz) 2.2.1 E.U.T. Operation 2.2.2 Test Setup Procedures 2.2.3 Measurement Data 2.3 Radiated Emissions (above 1GHz) 2.3.1 E.U.T. Operation 2.3.2 Test Setup Procedures 2.3.3 Measurement Data	
3	Equipment List	19
4	Measurement Uncertainty	20
5	Photographs	21
į	5.1 Test Setup	21



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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 5 of 21

General Information 1

Product Name:	GPS Handheld						
Model No. (EUT):	RINGER						
Trade Mark:	Blue Tees Golf	Blue Tees Golf					
Hardware Version:	V1.10	V1.10					
Software Version:	N/A						
SN:	HQT024A363	HQT024A363					
	Band	Tx (MHz)	Rx (MHz)				
Frequency Bands:	Bluetooth	2402~2480	2402~2480				
	GNSS / 1559~16						

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 6 of 21

1.1 Description of Support Units

Description	Manufacturer Model No.		Signal Line	Inventory No.				
Adaptor	Huawei	HW-050200C02	N/A	SUWI-03-33-06				
USB*	Yih Fone International Enterprise CO., Ltd	L2CB2318100100	619±15mm Shielded cable	N/A				
*Remark: The information of table are provided by client.								

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

1.4 Deviation from Standards

None

1.5 Abnormalities from Standard Conditions

None



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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 7 of 21

2 Emission Test Results

2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B							
Test Method:	ANSI C63.4:2014	ANSI C63.4:2014						
Frequency Range:	150kHz to 30MHz							
Receiver Setup:	RBW = 9kHz, VBW = 30kHz	RBW = 9kHz, VBW = 30kHz						
	Fraguency Dongs (MHZ)	Limit(dBµV)						
	Frequency Range (MHz)	Quasi-peak	average					
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*					
Limit:	0.5M-5MHz	56	46					
	5M-30MHz 60 50							
	*Decreases with the logarithm of the frequency							
	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

2.1.1 E.U.T. Operation

Operating Environment:

_ i	
Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101kPa
Pretest these modes to find the worst case:	a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+GNSS
The worst case for final test:	a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+GNSS



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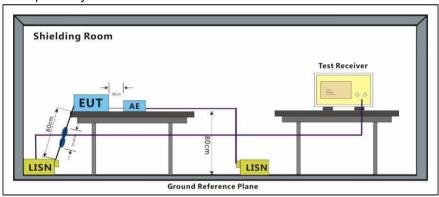


Report No.: SEWM2311000449RG02

Rev.: 01 Page: 8 of 21

2.1.2 Test Setup Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



2.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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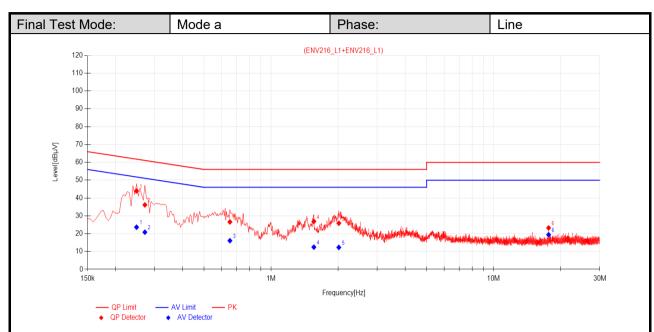
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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 9 of 21



Data	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dΒμV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2490	11.64	32.33	43.97	61.79	17.82	11.99	23.63	51.79	28.16	PASS
2	0.2715	11.64	24.49	36.13	61.07	24.94	9.19	20.83	51.07	30.24	PASS
3	0.6540	11.66	14.93	26.59	56.00	29.41	4.42	16.08	46.00	29.92	PASS
4	1.5585	11.73	15.16	26.89	56.00	29.11	0.73	12.46	46.00	33.54	PASS
5	2.0175	11.73	14.13	25.86	56.00	30.14	0.57	12.30	46.00	33.70	PASS
6	17.6595	11.96	11.28	23.24	60.00	36.76	7.45	19.41	50.00	30.59	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBµV] Value[dBµV]



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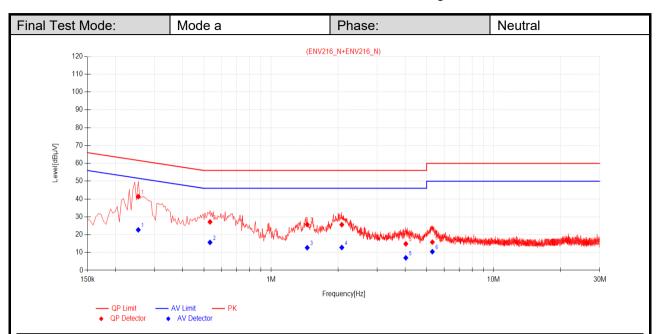
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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 10 of 21



Data	List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	ΑV Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2535	11.64	29.70	41.34	61.64	20.30	11.05	22.69	51.64	28.95	PASS
2	0.5325	11.61	15.55	27.16	56.00	28.84	4.06	15.67	46.00	30.33	PASS
3	1.4550	11.72	13.95	25.67	56.00	30.33	0.97	12.69	46.00	33.31	PASS
4	2.0805	11.73	13.88	25.61	56.00	30.39	1.08	12.81	46.00	33.19	PASS
5	4.0335	11.78	3.08	14.86	56.00	41.14	-4.78	7.00	46.00	39.00	PASS
6	5.3070	11.82	3.99	15.81	60.00	44.19	-1.36	10.46	50.00	39.54	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBμV] Value[dBμV]



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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 11 of 21

2.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B						
Test Method:	ANSI C63.4:2014						
Frequency Range:	30MHz to 1GHz						
Measurement Distance:	3m	3m					
	Frequency Range (MHz)	Limit(dBµV/m)	Detector				
	30MHz -88MHz	40.0	Quasi-peak				
Limit:	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1000MHz 54.0 Quasi-peak						
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz						

2.2.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101kPa
Pretest these modes to find the worst case:	a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+GNSS
The worst case for final test:	a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+GNSS



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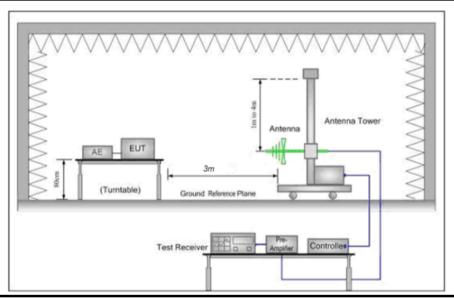


Report No.: SEWM2311000449RG02

Rev.: 01 Page: 12 of 21

2.2.2 Test Setup Procedures

- 1. The EUT was placed in a semi Anechoic Chamber as show below
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
- 7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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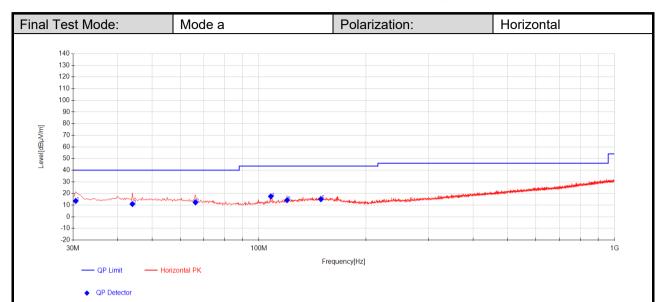
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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 13 of 21



Data L	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dΒμV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity	
1	30.5280	29.67	17.96	-34.01	13.62	40.00	26.38	Horizontal	
2	44.0577	25.48	19.50	-33.99	10.99	40.00	29.01	Horizontal	
3	66.2938	28.42	17.76	-33.79	12.39	40.00	27.61	Horizontal	
4	107.9876	34.75	16.21	-33.41	17.55	43.50	25.95	Horizontal	
5	119.9875	30.32	17.30	-33.34	14.28	43.50	29.22	Horizontal	
6	149.3554	29.85	18.46	-33.19	15.12	43.50	28.38	Horizontal	

Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]



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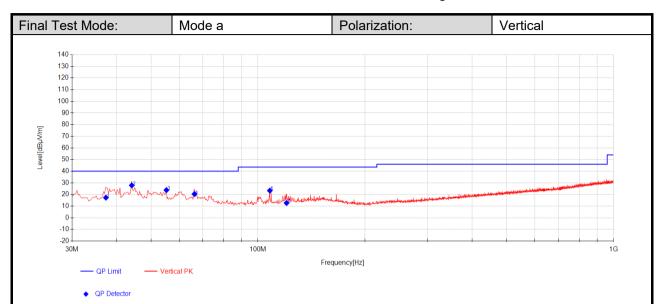
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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 14 of 21



Data L	ist							
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dΒμV/m]	QP Limit [dΒμV/m]	QP Margin [dB]	Polarity
1	37.3583	32.30	19.05	-34.00	17.35	40.00	22.65	Vertical
2	44.1696	42.35	19.50	-33.99	27.86	40.00	12.14	Vertical
3	55.2859	38.72	18.99	-33.92	23.79	40.00	16.21	Vertical
4	66.2928	36.43	17.76	-33.79	20.40	40.00	19.60	Vertical
5	107.9954	40.56	16.21	-33.41	23.36	43.50	20.14	Vertical
6	120.3575	28.73	17.33	-33.34	12.72	43.50	30.78	Vertical

Remark:

- 1. The Quasi-Peak measurements were performed on the EUT.
- 2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dB μ V/m] –Value[dB μ V/m]



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Report No.: SEWM2311000449RG02

Rev.: 01

Page: 15 of 21

2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B						
Test Method:	ANSI C63.4:2014						
Frequency Range:	Above 1GHz	Above 1GHz					
Measurement Distance:	3m						
	Frequency (MHz)	Limit (dBµV/m)	Detector				
Limit:	A1 4011	74	Peak				
	Above 1GHz 54 Average						
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.						

2.3.1 E.U.T. Operation

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101kPa
Pretest these modes to find the worst case:	a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+GNSS
The worst case for final test:	a: adapter(EUT1)+usb Cable(EUT1)+BT(Idle)+GNSS



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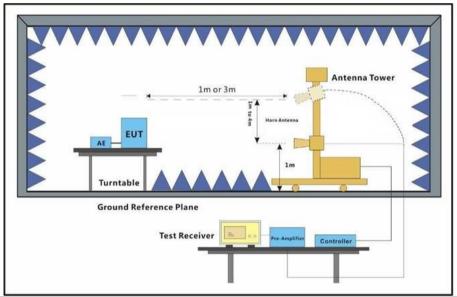


Report No.: SEWM2311000449RG02

Rev.: 01 Page: 16 of 21

2.3.2 Test Setup Procedures

- 1. The EUT was placed in a full Anechoic Chamber as show below
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- 4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
- 7. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.



2.3.3 **Measurement Data**

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



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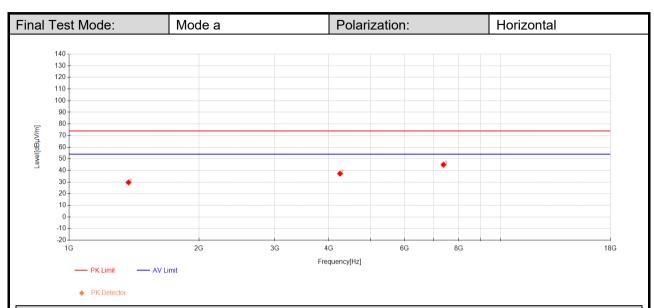
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Report No.: SEWM2311000449RG02

Rev.: 01 Page: 17 of 21



Data	Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	1373.575	51.89	25.11	-47.30	29.70	74.00	44.30	Horizontal	
2	4247.425	47.76	31.70	-42.15	37.30	74.00	36.70	Horizontal	
3	7377.125	46.12	36.45	-37.68	44.90	74.00	29.10	Horizontal	

Remark:

1. The Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB μ V/m] - Level[dB μ V/m]



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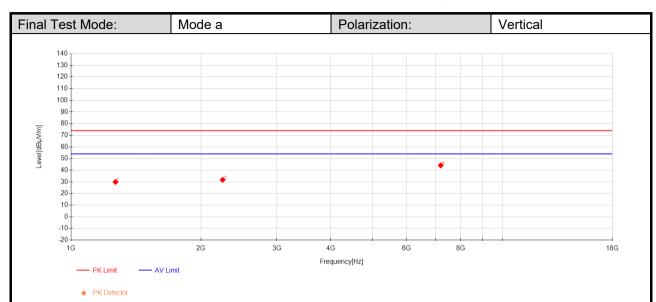
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Rev.: 01

Page: 18 of 21



Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	1267.325	52.33	25.17	-47.54	29.96	74.00	44.04	Vertical
2	2246.525	50.35	26.84	-45.43	31.76	74.00	42.24	Vertical
3	7192.675	45.75	36.23	-37.84	44.14	74.00	29.86	Vertical

Remark:

1. The Peak and Average measurements were performed on the EUT.

2. Level = Reading Level + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit[dB μ V/m] - Level[dB μ V/m]



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Report No.: SEWM2311000449RG02

Rev.: 01

Page: 19 of 21

3 Equipment List

Conduction Test Equipment								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07			
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07			
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR			

	RSE Test System								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Semi- Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06				
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22				
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12				
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12				
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05				
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05				
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR				



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Report No.: SEWM2311000449RG02

Rev.: 01

Page: 20 of 21

4 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)		
2	Radiated Emission	± 4.8dB (Below 1GHz)		
2	Radiated Emission	± 4.8dB (1GHz to 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{cispr/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Rev.: 01

Page: 21 of 21

5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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