



TEST REPORT

Application No.: SZEM2012012764CR
Applicant: Honor Device Co., Ltd.
Address of Applicant: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, Guangdong, China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Smart Watch
Model No.: KAN-B39
FCC ID: 2AYGCKAN-B39
Trade Mark: HONOR
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020-12-11
Date of Test: 2020-12-12 to 2020-12-23
Date of Issue: 2020-12-24

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager





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SGS-CSTC Standards Technical Services Co., Ltd.
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-24		Original

Authorized for issue by:			
			
		Leo Lai/Project Engineer	
			
		Eric Fu/Reviewer	



2 Test Summary

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



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4 General Information

4.1 Details of E.U.T.

Power Supply:	DC 3.85V from internal rechargeable battery and which can be charged by DC 5V 1A	
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK, ASK	
Operation Frequency:	BT	2400MHz~2483.5MHz
	NFC	13.56MHz

Battery No.	Model No.	Manufacturer
1	HB672836EEW	Honor Device Co., Ltd. (Dongguan NVT Technology Co.,LTD.)
2	HB672836EEW	Honor Device Co., Ltd. (Zhuhai CosMX Power Jinwan Subsidiary Co.,Ltd.)

Cable No.	Type C	Model No.	Manufacturer
1	USB Cable	Type C	\

Charge dock No.	Model No.	Manufacturer
1	AF40-3	Honor Device Co., Ltd.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	\	HW-050100U01	REF. No.:SEA2600
Mobile Phone	\	LYA-AL00	REF. No.:SEA2701

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	$\pm 3.0\text{dB}$
Radiated Emissions (30MHz-1GHz)	$\pm 4.5\text{dB}$
Radiated Emissions (above 1GHz)	$\pm 4.8\text{dB}$

Remark:

The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR 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.

4.4 Test modes

Pretest these modes to find the worst case and show the worse data in the test items:	01:BT+NFC+EUT1(battery1)+USB cable+adaptor 02:BT+NFC+EUT2(battery2)+USB cable+adaptor 03:BT+NFC+EUT1(battery1) 04:BT+NFC+EUT2(battery2)
---	--

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISCED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2020-03-24	2021-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2020-04-01	2021-03-31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09



General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06



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6 Emission Test Results

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

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

0.15M-0.5MHz 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average

0.5M-5MHz 56dB(μV) quasi-peak, 46dB(μV) average

5M-30MHz 60dB(μV) quasi-peak, 50dB(μV) average

Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.1 °C

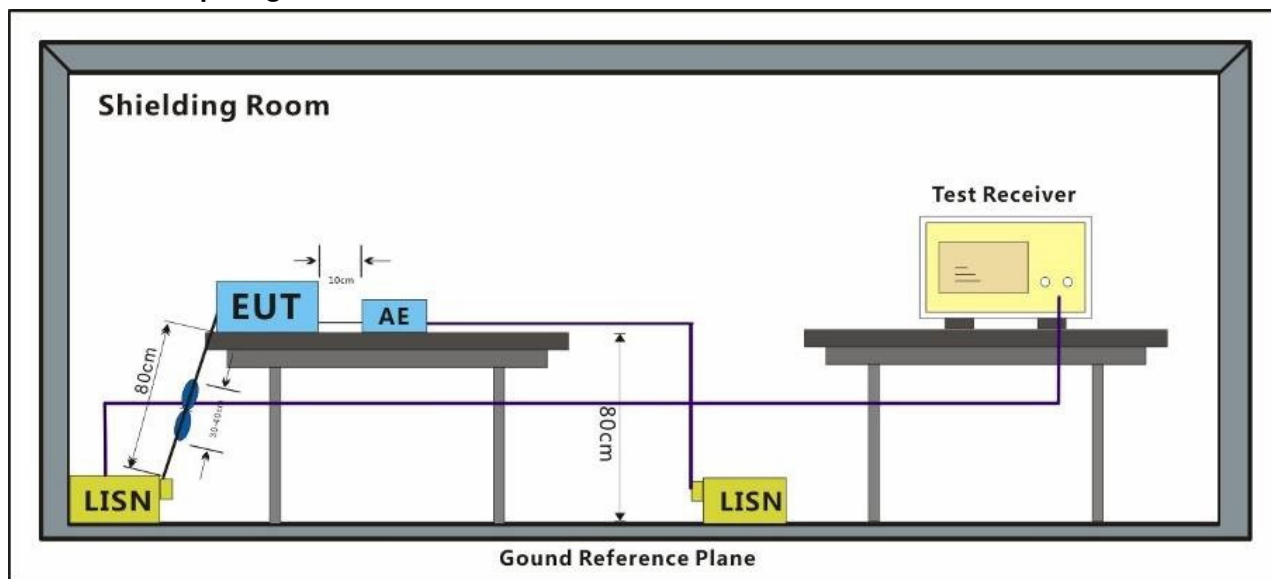
Humidity: 50.1 % RH

Atmospheric Pressure: 1010 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	BT+NFC+EUT1(battery1)+USB cable+adaptor

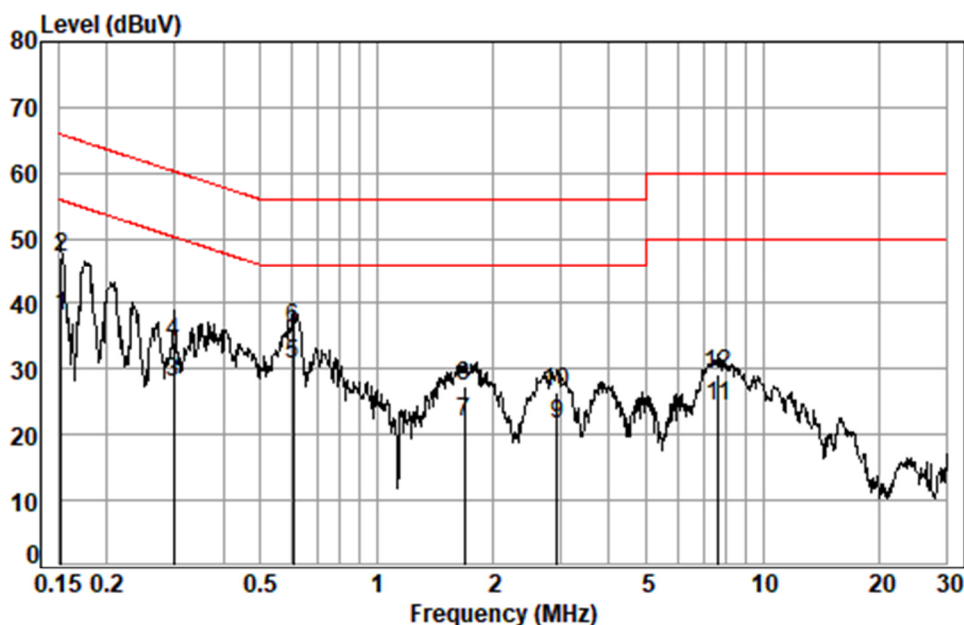
6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and 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.

Test Mode: 00; Line: Live line



Site : Shielding Room

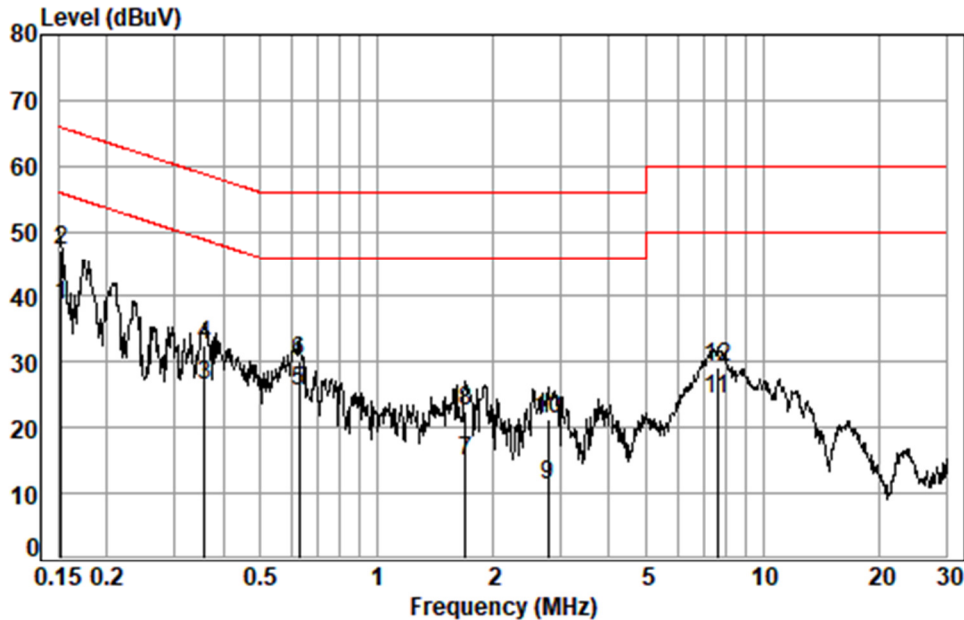
Condition: Line

Job No. : 12764CR

Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.03	9.70	28.34	38.07	55.87	-17.80	Average
2	0.1524	0.03	9.70	37.31	47.04	65.87	-18.83	QP
3	0.2987	0.05	9.74	18.32	28.11	50.28	-22.17	Average
4	0.2987	0.05	9.74	24.26	34.05	60.28	-26.23	QP
5	0.6075	0.08	9.77	20.95	30.80	46.00	-15.20	Average
6	0.6075	0.08	9.77	26.42	36.27	56.00	-19.73	QP
7	1.6891	0.12	9.80	11.85	21.77	46.00	-24.23	Average
8	1.6891	0.12	9.80	17.58	27.50	56.00	-28.50	QP
9	2.9307	0.14	9.84	11.68	21.66	46.00	-24.34	Average
10	2.9307	0.14	9.84	16.35	26.33	56.00	-29.67	QP
11	7.6870	0.16	10.07	14.02	24.25	50.00	-25.75	Average
12	7.6870	0.16	10.07	19.04	29.27	60.00	-30.73	QP

Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 12764CR
Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1524	0.03	9.71	28.81	38.55	55.87	-17.32	Average
2	0.1524	0.03	9.71	37.41	47.15	65.87	-18.72	QP
3	0.3577	0.06	9.75	16.59	26.40	48.78	-22.38	Average
4	0.3577	0.06	9.75	22.78	32.59	58.78	-26.19	QP
5	0.6305	0.08	9.77	15.71	25.56	46.00	-20.44	Average
6	0.6305	0.08	9.77	20.24	30.09	56.00	-25.91	QP
7	1.6981	0.12	9.80	4.94	14.86	46.00	-31.14	Average
8	1.6981	0.12	9.80	12.68	22.60	56.00	-33.40	QP
9	2.7794	0.14	9.83	1.27	11.24	46.00	-34.76	Average
10	2.7794	0.14	9.83	11.38	21.35	56.00	-34.65	QP
11	7.6060	0.16	10.08	14.13	24.37	50.00	-25.63	Average
12	7.6060	0.16	10.08	18.89	29.13	60.00	-30.87	QP



6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

FREQUENCY (MHz)	dBμV/m (At 10m)	dBμV/m (At 3m)
	Class B	Class B
30MHz -88MHz	29.5	40.0
88MHz-216MHz	33.1	43.5
216MHz-960MHz	35.6	46.0
960MHz-1000MHz	43.5	54.0
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz		

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C

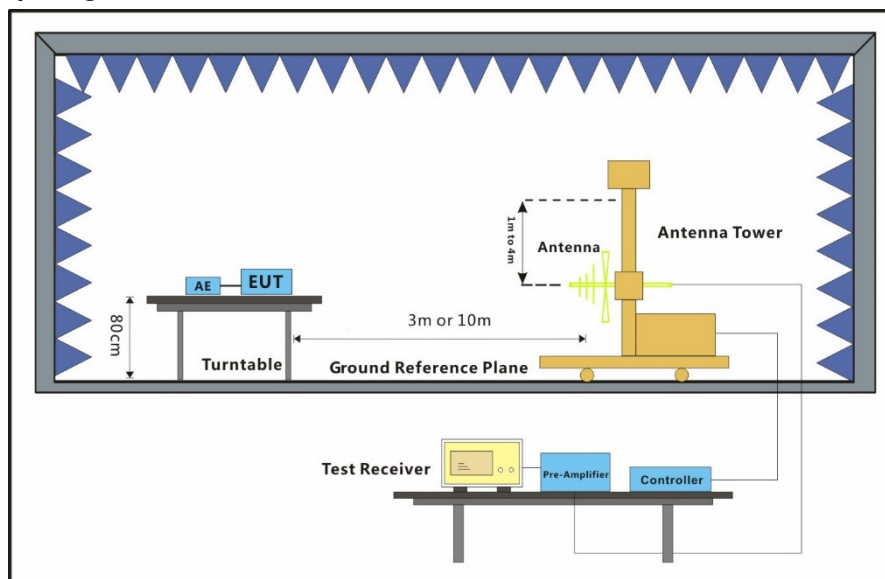
Humidity: 54.7 % RH

Atmospheric Pressure: 1010 mbar

6.2.2 Test Mode Description

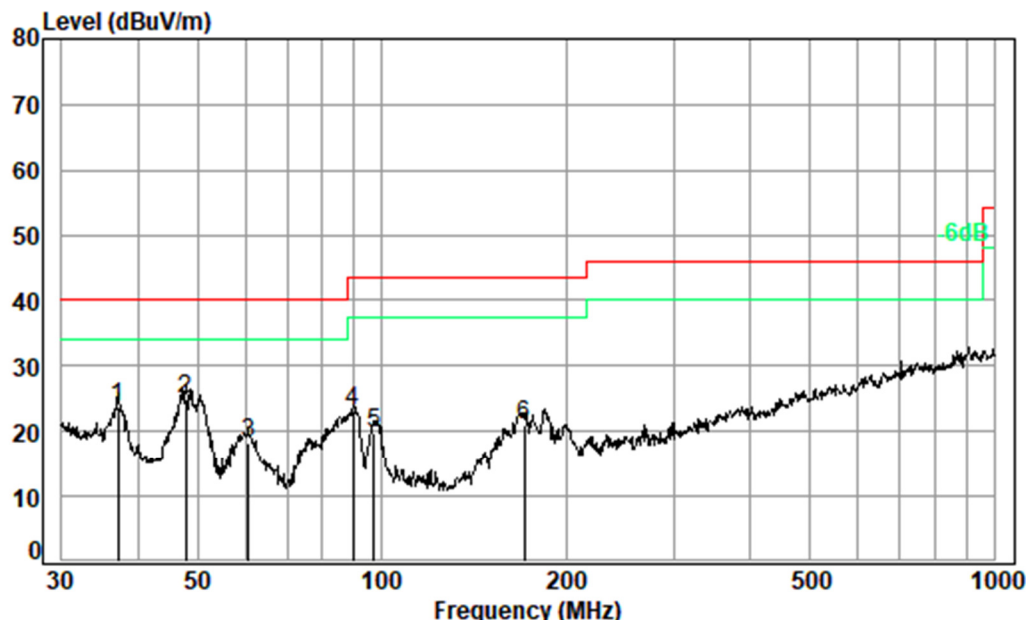
Pre-scan / Final test	Mode Code	Description
Final test	01	BT+NFC+EUT1(battery1)+USB cable+adaptor
Final test	02	BT+NFC+EUT2(battery2)+USB cable+adaptor

6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and 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.



Condition: 3m VERTICAL

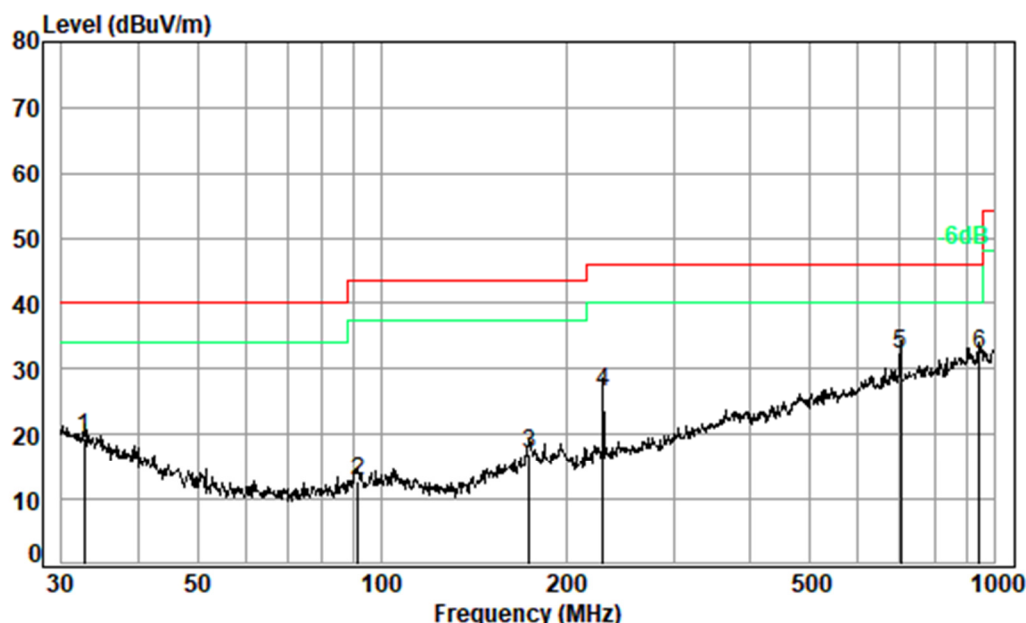
Job No. : 12764CR

Test mode: 01

: 1#

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.15	0.67	19.41	27.71	31.39	23.76	40.00	-16.24 QP
2	47.83	0.70	14.69	27.69	37.35	25.05	40.00	-14.95 QP
3	60.70	0.80	12.87	27.66	32.32	18.33	40.00	-21.67 QP
4	89.90	1.30	13.09	27.62	36.39	23.16	43.50	-20.34 QP
5	97.11	1.16	13.80	27.61	32.34	19.69	43.50	-23.81 QP
6	170.79	1.18	15.58	27.25	31.41	20.92	43.50	-22.58 QP





Condition: 3m HORIZONTAL

Job No. : 12764CR

Test mode: 01

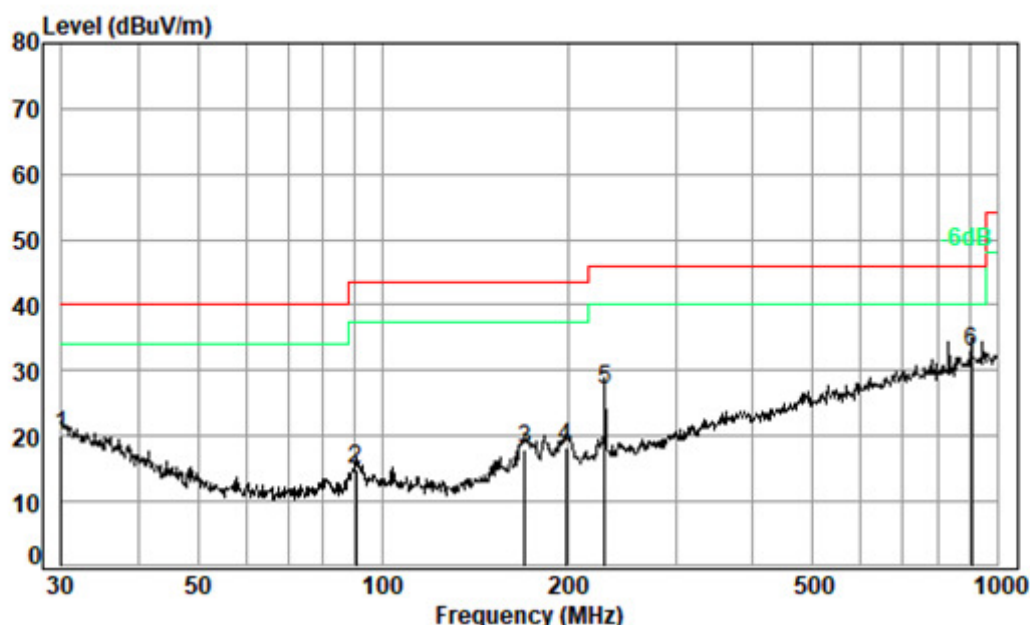
: 1#

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	32.63	0.63	21.31	27.73	25.39	19.60	40.00	-20.40	QP
2	91.49	1.27	13.40	27.62	25.69	12.74	43.50	-30.76	QP
3	174.42	1.18	15.51	27.24	27.59	17.04	43.50	-26.46	QP
4	230.10	1.48	17.31	27.05	34.82	26.56	46.00	-19.44	QP
5 pp	704.23	2.92	27.19	27.91	30.19	32.39	46.00	-13.61	QP
6	945.44	3.55	29.28	26.93	26.29	32.19	46.00	-13.81	QP



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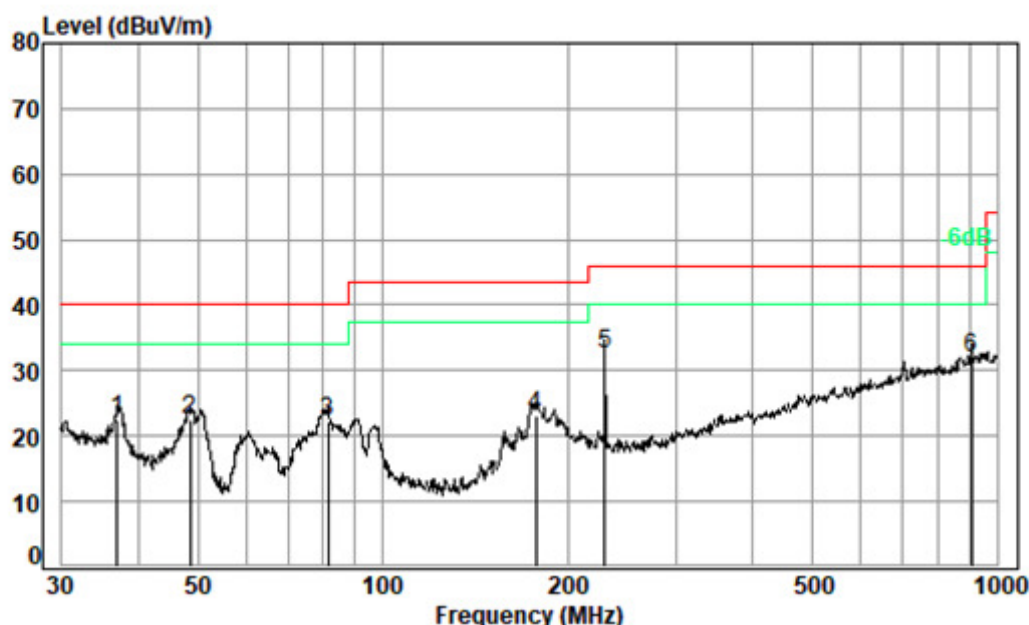


Condition: 3m HORIZONTAL

Job No. : 12764CR

Test mode: 02

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.00	0.60	23.00	27.74	24.33	20.19	40.00	-19.81	QP
2	90.54	1.29	13.21	27.62	27.92	14.80	43.50	-28.70	QP
3	170.19	1.18	15.60	27.25	28.53	18.06	43.50	-25.44	QP
4	198.59	1.20	15.76	27.15	28.55	18.36	43.50	-25.14	QP
5	230.10	1.48	17.31	27.05	35.22	26.96	46.00	-19.04	QP
6 pp	906.48	3.51	29.00	27.13	27.49	32.87	46.00	-13.13	QP



Condition: 3m VERTICAL
Job No. : 12764CR
Test mode: 02

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.02	0.67	19.44	27.71	30.16	22.56	40.00	-17.44	QP
2	48.67	0.70	14.43	27.69	35.00	22.44	40.00	-17.56	QP
3	81.50	1.22	12.05	27.63	36.59	22.23	40.00	-17.77	QP
4	177.51	1.18	15.45	27.22	33.70	23.11	43.50	-20.39	QP
5 pp	230.10	1.48	17.31	27.05	40.94	32.68	46.00	-13.32	QP
6	909.67	3.51	29.05	27.11	26.52	31.97	46.00	-14.03	QP



6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Limit:

Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

6.3.1 E.U.T. Operation

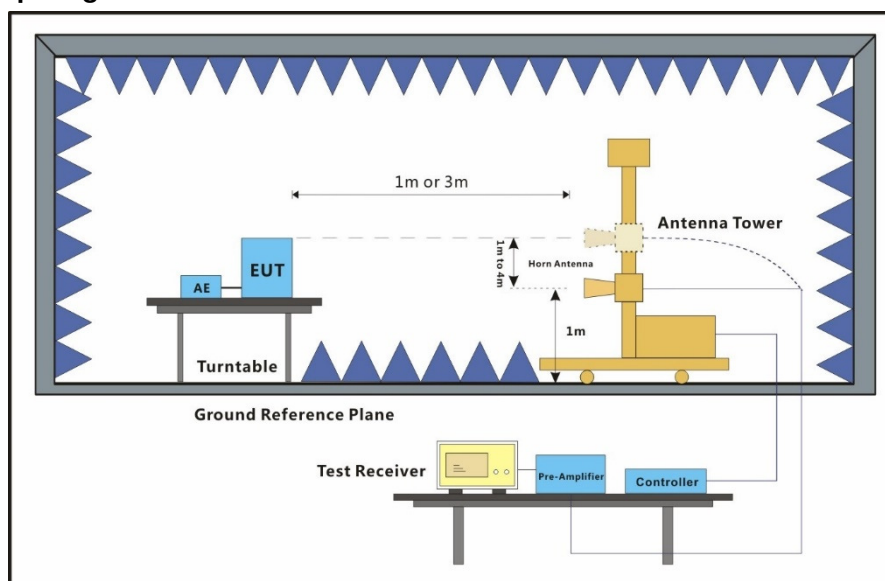
Operating Environment:

Temperature: 23.6 °C Humidity: 37.7 % RH Atmospheric Pressure: 1010 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	BT+NFC+EUT1(battery1)+USB cable+adaptor

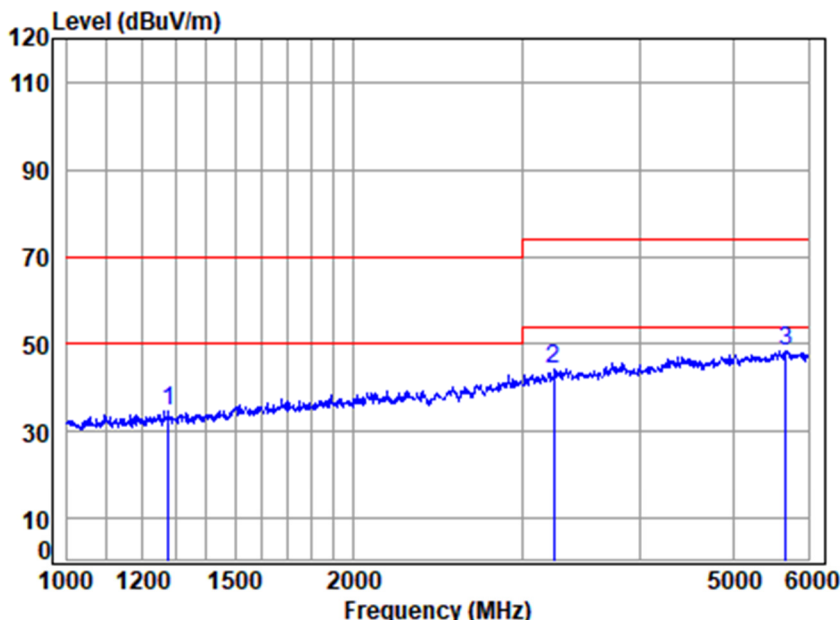
6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and 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.

Test Mode: 01; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 12764CR
Mode : 01
Note :

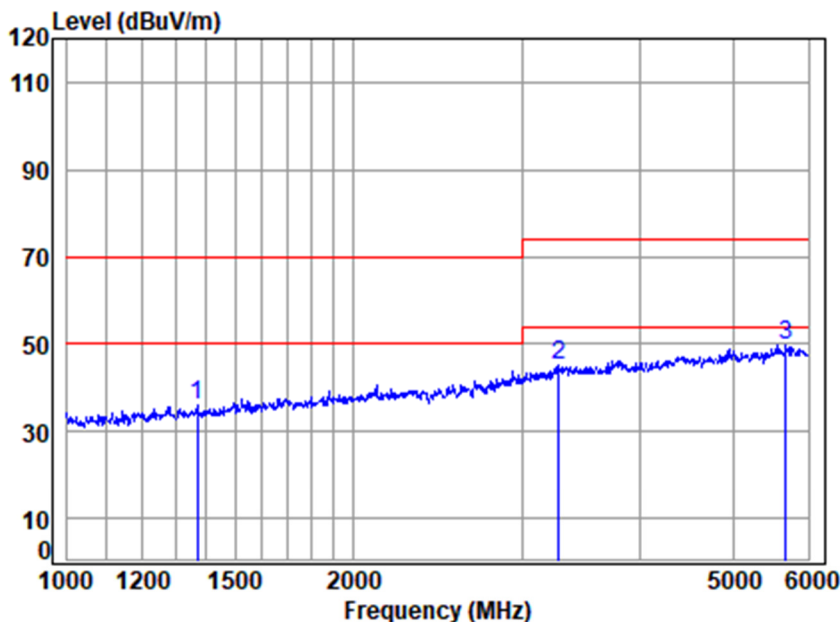
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1278.223	2.84	24.93	39.81	46.83	34.79	70.00	-35.21	Peak
2	3245.229	5.62	31.31	40.89	48.44	44.48	74.00	-29.52	Peak
3	5685.998	7.25	34.79	42.37	48.75	48.42	74.00	-25.58	Peak



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Test Mode: 01; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 12764CR
Mode : 01
Note :

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1368.285	2.53	25.30	39.87	48.24	36.20	70.00	-33.80	Peak
2	3280.305	5.88	31.36	40.92	48.81	45.13	74.00	-28.87	Peak
3	5675.819	7.24	34.78	42.37	50.07	49.72	74.00	-24.28	Peak



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7 Test Setup Photo

Refer to Appendix A - Set up photos for SZEM2012012764CR



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Shenzhen Branch (SGS-CSTC) Laboratory

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8 EUT Constructional Details (EUT Photos)

Refer to Appendix B - Photographs of EUT Constructional Details for SZEM2012012764CR

End of the Report -



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