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TEST REPORT

Application No.: SEWM2308000313RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Address of Applicant: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer: 27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Road, Xili Community, Xili Street, Nanshan District, Shenzhen , PRC
EUT Description: Smart Phone
Model No.: Celero3 5G+
FCC ID: XD6U695DS
Standard(s): FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2023/08/11
Date of Test: 2023/09/22 to 2023/09/27
Date of Issue: 2023/10/13

Test Result:	Pass*
---------------------	--------------

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

Authorized Signature:

Well Wei
 Wireless Laboratory Manager



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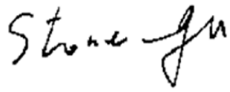


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/13		Original

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



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Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
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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1 General Information

EUT Description:	Smart Phone		
Model No.:	Celero3 5G+		
Hardware Version:	V1.0		
Software Version:	U695DSV01.01.10		
IMEI:	867222065004717		
Frequency Bands:	Band	TX	RX
	GSM850	824 to 849 MHz	869 to 894 MHz
	GSM1900	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band II	1850 to 1910 MHz	1930 to 1990 MHz
	UMTS Band IV	1710 to 1755 MHz	2110 to 2155 MHz
	UMTS Band V	824 to 849 MHz	869 to 894 MHz
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz
	LTE Band 5	824 to 849 MHz	869 to 894 MHz
	LTE Band 12	699 to 716 MHz	729 to 746 MHz
	LTE Band 14	788 to 798 MHz	758 to 768 MHz
	LTE Band 17	704 to 716 MHz	734 to 746 MHz
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz
	LTE Band 66	1710 to 1780 MHz	2110 to 2200 MHz
	LTE Band 71	663 to 698 MHz	617 to 652 MHz
	NR Band n2	1850 to 1910 MHz	1930 to 1990 MHz
	NR Band n5	824 to 849 MHz	869 to 894 MHz
NR Band n25	1850 to 1915MHz	1930 to 1995 MHz	
NR Band n26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz	
NR Band n26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz	
NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz	
NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz	



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NR Band n48	3550 to 3700 MHz	3550 to 3700 MHz
NR Band n66	1710 to 1780 MHz	2110 to 2180 MHz
NR Band n70	1695 to 1710 MHz	1995 to 2020 MHz
NR Band n71	663 to 698 MHz	617 to 652 MHz
NR Band n77	3450-3550	3450-3550
	3700-3980	3700-3980
LTE CA: CA_5B; CA_2A-12A; CA_12A-66A; CA_2A-5A; CA_5A-66A; CA_2A-14A; CA_14A-66A; CA_2A-4A; CA_2A-66A; NR CA: CA_n26A-n66A; CA_n26A-n70A; CA_n66A-n71A; CA_n70A-n71A; ENDC: DC_2A_n5A; DC_30A_n5A; DC_66A_n5A; DC_2A_n66A; DC_12A_n66A; DC_30A_n66A; DC_5A_n2A; DC_30A_n2A; DC_12A_n2A; DC_66A_n2A; DC_66A_n66A; DC_2A_n2A; DC_2A_n77A; DC_5A_n77A; DC_66A_n77A; DC_30A_n77A; DC_12A_n77A; DC_14A_n77A; DC_14A_n66A; DC_14A_n2A; DC_66A_n71A; DC_2A_n71A; DC_2A_n41A; DC_66A_n25A; DC_66A_n41A;		
Wi-Fi 2.4G	2412~2462	2412~2462
Bluetooth	2402~2480	2402~2480
Wi-Fi 5G	5150~5850	5150~5850
Wi-Fi 6E	5925~7125	5925~7125
NFC	13.56	13.56
GNSS(GPS)	/	1559~1610
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Accessory:

Adapter No.	Model No.	Manufacturer
1	UF72PD20A	Guangdong Beicom Electronics Co.,Ltd

Battery No.	Model No.	Manufacturer
1	486786	Guangdong Fenghua New Energy Co.,Ltd.

USB Cable No.	Model No.	Manufacturer
1	T365	Shenzhen Yihuaxing Electronics Co. Ltd.



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1.1 Description of Support Units

Equipment	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04

1.2 Test Location

All tests were performed at:

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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:

<ul style="list-style-type: none"> 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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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		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)	Limit(dBμV)	
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	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:

Temperature:	22~23°C
Humidity:	44~46%RH
Atmospheric Pressure:	101.0 kPa
Pretest these modes to find the worst case:	<p>a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low</p> <p>b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid</p> <p>c: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+MP4+LTE Band 5 (RX) High</p> <p>d: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+NFC ON+LTE Band 12 (RX) Low</p> <p>e: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 14 (RX) Mid</p> <p>f: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+LTE Band 17 (RX) High</p> <p>g: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 26 (RX) Low</p> <p>h: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 71 (RX) Mid</p> <p>i: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+SA Band 5(RX) High</p> <p>j: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band</p>



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	<p>26(RX) Low k: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+SA Band 71(RX) Mid l: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+WLAN6e(Idle)+GSM850 (RX) Low</p>
<p>The worst case for final test:</p>	<p>a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low l: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+WLAN6e(Idle)+GSM850 (RX) Low</p>

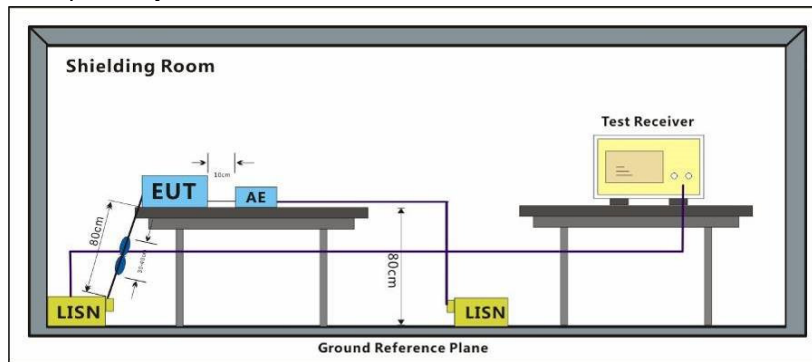


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2.1.2 Test Setup Procedures

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

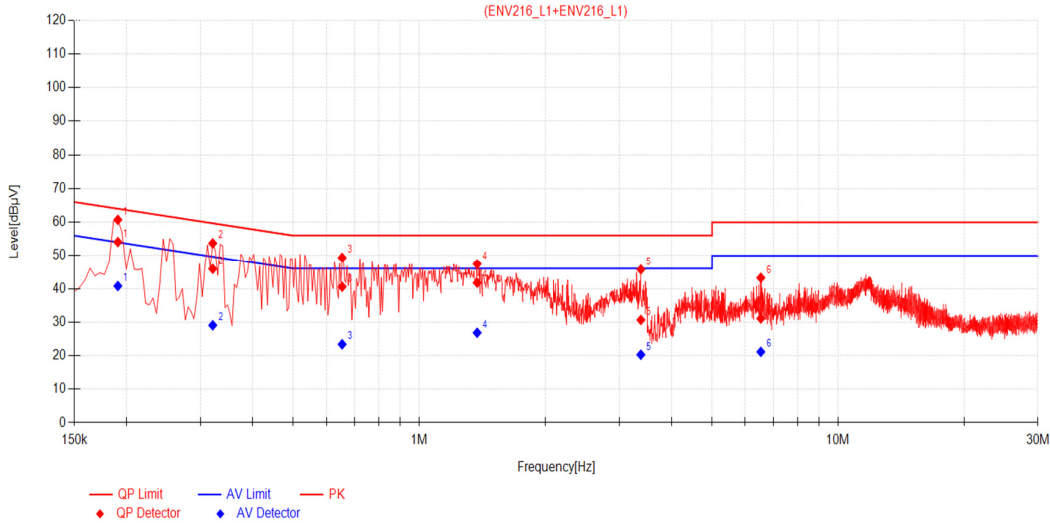
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.



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Final Test Mode:	Mode a	Phase:	Line
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Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1905	11.67	42.43	54.10	64.01	9.91	29.08	40.75	54.01	13.26	PASS
2	0.3210	11.62	34.29	45.91	59.68	13.77	17.42	29.04	49.68	20.64	PASS
3	0.6540	11.66	28.88	40.54	56.00	15.46	11.72	23.38	46.00	22.62	PASS
4	1.3740	11.72	30.02	41.74	56.00	14.26	15.09	26.81	46.00	19.19	PASS
5	3.3810	11.76	18.89	30.65	56.00	25.35	8.51	20.27	46.00	25.73	PASS
6	6.5400	11.87	19.20	31.07	60.00	28.93	9.25	21.12	50.00	28.88	PASS

Remark:

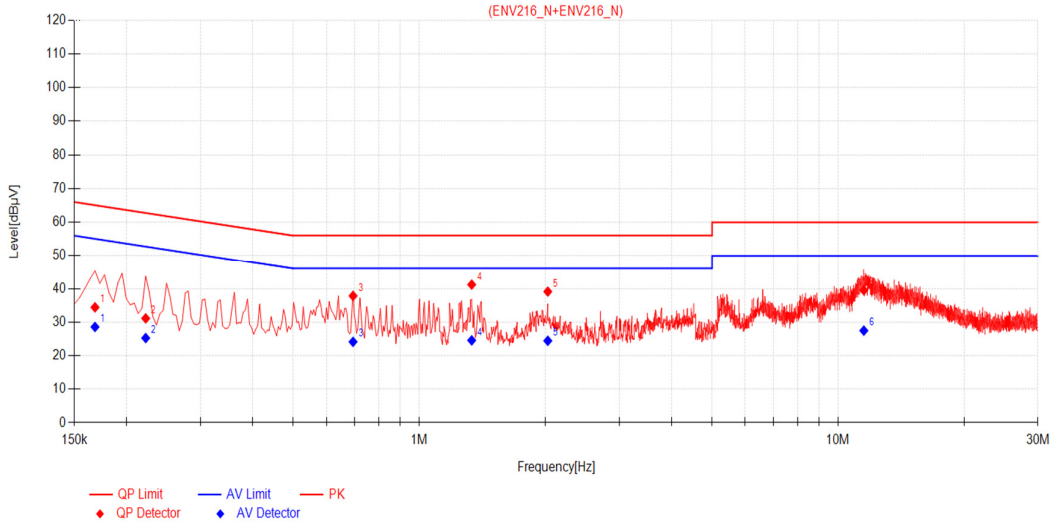
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



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Final Test Mode:	Mode a	Phase:	Neutral
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Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	11.77	22.61	34.38	65.06	30.68	16.77	28.54	55.06	26.52	PASS
2	0.2220	11.65	19.45	31.10	62.74	31.64	13.59	25.24	52.74	27.50	PASS
3	0.6945	11.67	26.12	37.79	56.00	18.21	12.44	24.11	46.00	21.89	PASS
4	1.3335	11.73	29.44	41.17	56.00	14.83	12.82	24.55	46.00	21.45	PASS
5	2.0265	11.73	27.36	39.09	56.00	16.91	12.68	24.41	46.00	21.59	PASS
6	11.5215	11.88	27.61	39.49	60.00	20.51	15.56	27.44	50.00	22.56	PASS

Remark:

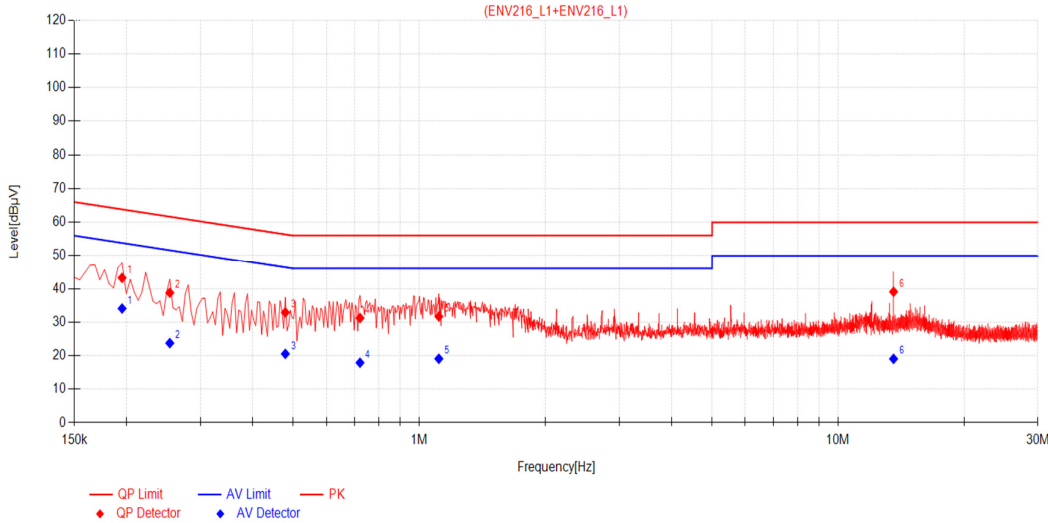
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



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Final Test Mode:	Mode I	Phase:	Line
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Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1950	11.67	31.52	43.19	63.82	20.63	22.37	34.04	53.82	19.78	PASS
2	0.2535	11.64	27.11	38.75	61.64	22.89	12.09	23.73	51.64	27.91	PASS
3	0.4785	11.60	21.27	32.87	56.37	23.50	8.92	20.52	46.37	25.85	PASS
4	0.7215	11.68	19.53	31.21	56.00	24.79	6.21	17.89	46.00	28.11	PASS
5	1.1130	11.72	19.95	31.67	56.00	24.33	7.34	19.06	46.00	26.94	PASS
6	13.5690	11.91	27.12	39.03	60.00	20.97	7.12	19.03	50.00	30.97	PASS

Remark:

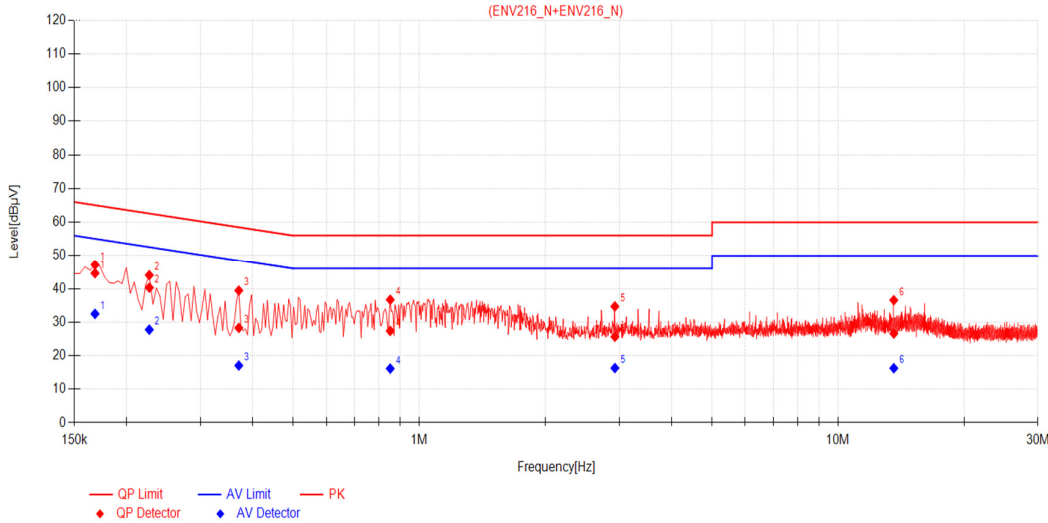
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



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Final Test Mode:	Mode I	Phase:	Neutral
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Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	11.77	32.82	44.59	65.06	20.47	20.67	32.44	55.06	22.62	PASS
2	0.2265	11.64	28.63	40.27	62.58	22.31	16.09	27.73	52.58	24.85	PASS
3	0.3705	11.61	16.64	28.25	58.49	30.24	5.43	17.04	48.49	31.45	PASS
4	0.8520	11.71	15.66	27.37	56.00	28.63	4.43	16.14	46.00	29.86	PASS
5	2.9310	11.73	13.89	25.62	56.00	30.38	4.57	16.30	46.00	29.70	PASS
6	13.5870	11.91	14.67	26.58	60.00	33.42	4.34	16.25	50.00	33.75	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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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		
Limit:	Frequency Range (MHz)	Limit(dBµV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	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:	101.0 kPa
Pretest these modes to find the worst case:	<p>a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low</p> <p>b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid</p> <p>c: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+MP4+LTE Band 5 (RX) High</p> <p>d: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+NFC ON+LTE Band 12 (RX) Low</p> <p>e: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 14 (RX) Mid</p> <p>f: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+LTE Band 17 (RX) High</p> <p>g: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 26 (RX) Low</p> <p>h: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 71 (RX) Mid</p> <p>i: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+SA Band 5(RX) High</p> <p>j: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 26(RX) Low</p> <p>k: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+SA Band 71(RX) Mid</p>



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Report No.: SEWM2308000313RG09

Rev.: 01

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	I: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+WLAN6e(Idle)+GSM850 (RX) Low
The worst case for final test:	j: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 26(RX) Low I: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+WLAN6e(Idle)+GSM850 (RX) Low



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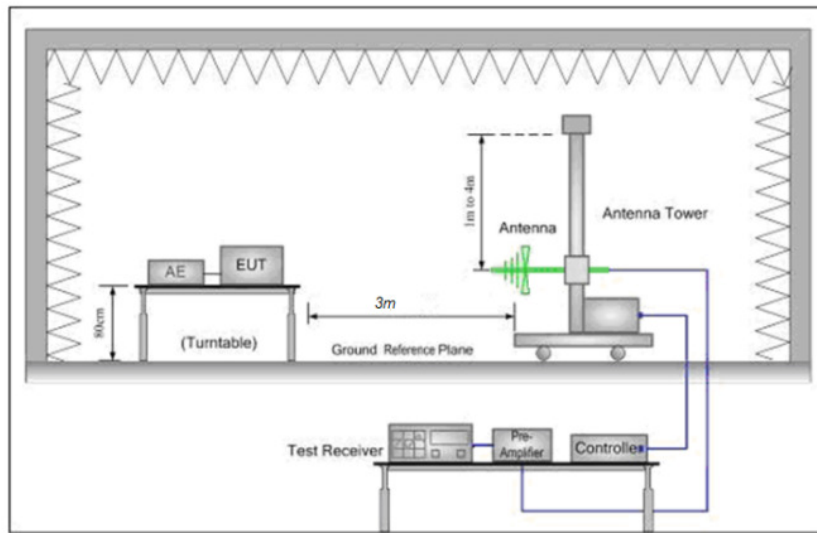
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Wireless Laboratory

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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

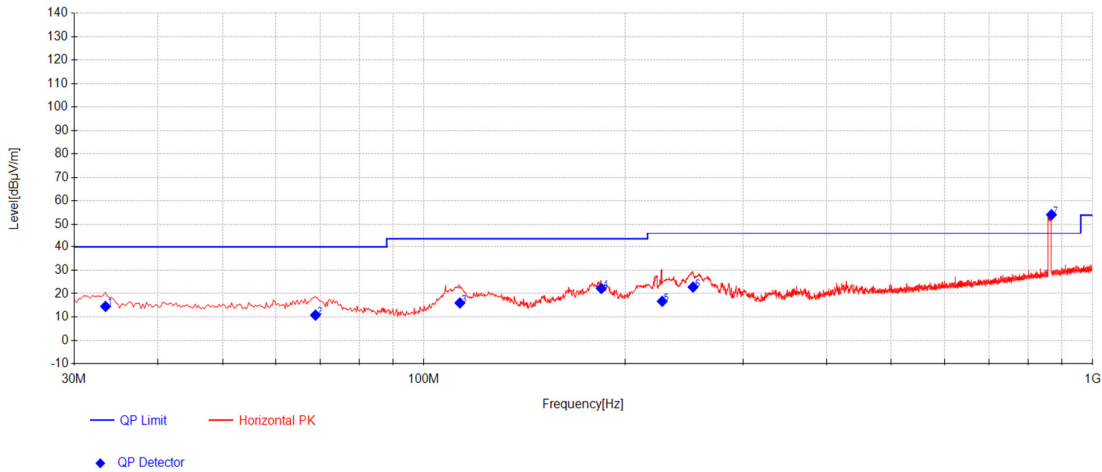
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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Final Test Mode:	Mode j	Polarization:	Horizontal
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Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.4180	30.20	18.31	-34.00	14.51	40.00	25.49	106	324	Horizontal
2	68.8433	27.25	17.30	-33.75	10.80	40.00	29.20	106	8	Horizontal
3	113.2014	32.73	16.66	-33.38	16.01	43.50	27.49	118	270	Horizontal
4	184.2005	38.81	16.24	-32.86	22.19	43.50	21.31	120	53	Horizontal
5	227.2039	32.60	16.65	-32.54	16.71	46.00	29.29	117	360	Horizontal
6	252.6045	38.05	17.18	-32.44	22.79	46.00	23.21	106	347	Horizontal
7*	867.8375	54.14	29.45	-29.46	54.13	-	-	166	205	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) - Pre-amplifier (dB)

Margin = Limit[dBµV/m] - Value[dBµV/m]

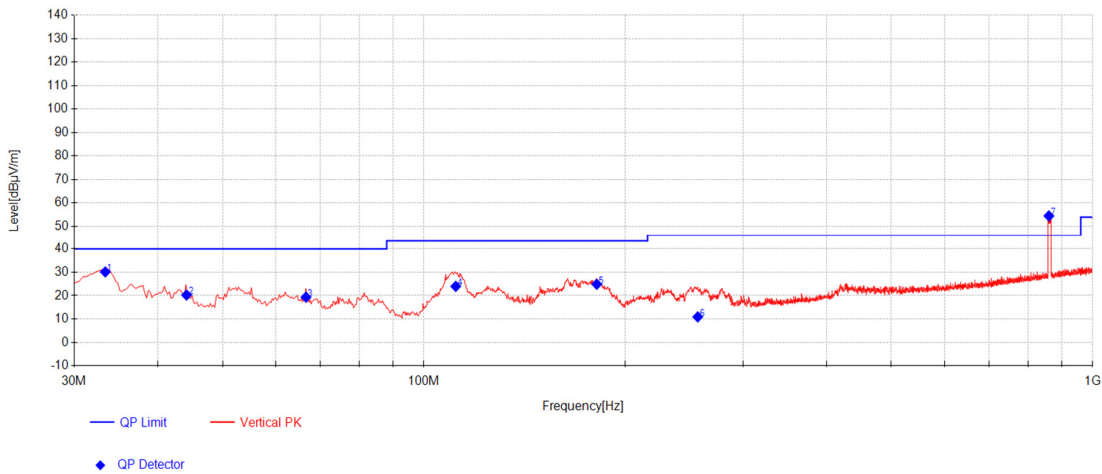
Note*: #7 is system simulator signal which can be ignored.



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Final Test Mode:	Mode j	Polarization:	Vertical
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Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.3948	45.82	18.31	-34.00	30.13	40.00	9.87	106	355	Vertical
2	44.1734	34.74	19.50	-33.99	20.25	40.00	19.75	106	0	Vertical
3	66.6493	35.43	17.68	-33.78	19.33	40.00	20.67	108	94	Vertical
4	111.5962	40.80	16.53	-33.38	23.95	43.50	19.55	106	359	Vertical
5	181.3671	41.29	16.43	-32.87	24.85	43.50	18.65	106	155	Vertical
6	256.7699	26.18	17.13	-32.41	10.90	46.00	35.10	114	352	Vertical
7*	860.0775	54.66	29.34	-29.52	54.48	-	-	154	285	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) - Pre-amplifier (dB)

Margin = Limit[dBµV/m] - Value[dBµV/m]

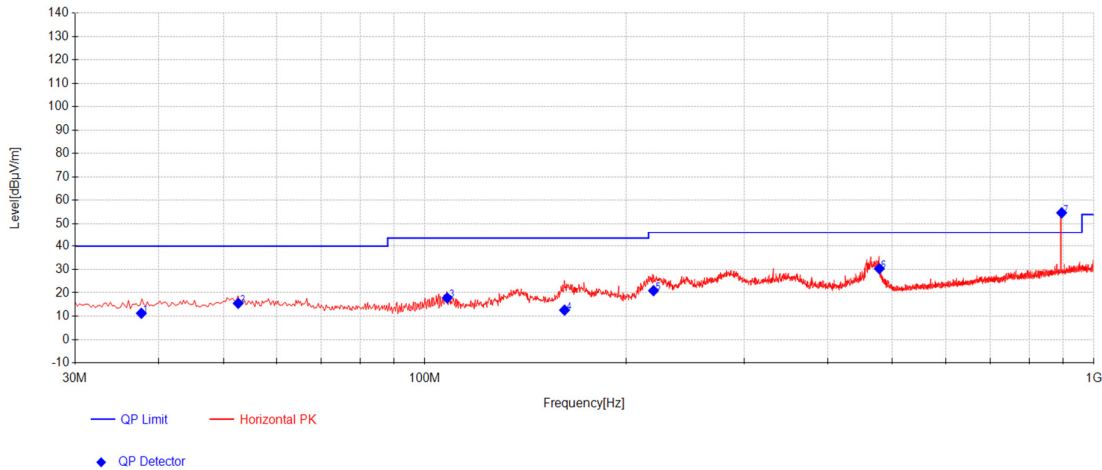
Note*: #7 is system simulator signal which can be ignored.



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Final Test Mode:	Mode I	Polarization:	Horizontal
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Data List

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.6969	26.07	19.16	-34.00	11.23	40.00	28.77	117	118	Horizontal
2	52.6057	30.36	19.10	-33.95	15.51	40.00	24.49	120	359	Horizontal
3	108.0157	35.00	16.21	-33.41	17.80	43.50	25.70	110	240	Horizontal
4	161.7255	27.47	18.15	-33.04	12.58	43.50	30.92	116	13	Horizontal
5	219.6764	37.25	16.25	-32.58	20.92	46.00	25.08	120	70	Horizontal
6	477.8582	38.61	22.93	-31.21	30.33	46.00	15.67	246	234	Horizontal
7*	894.9975	54.14	29.83	-29.29	54.68	-	-	166	272	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) - Pre-amplifier (dB)

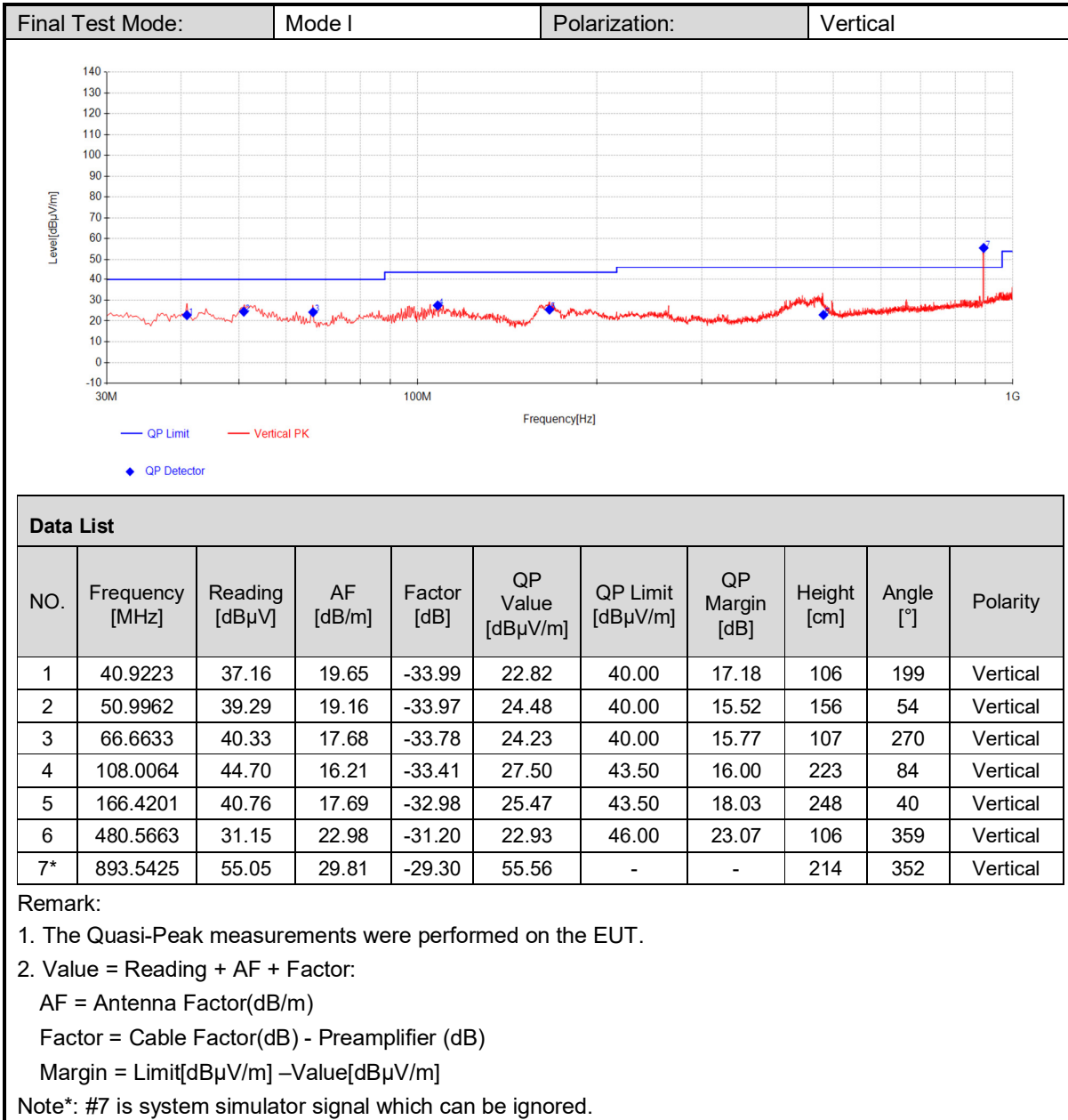
Margin = Limit[dBµV/m] - Value[dBµV/m]

Note*: #7 is system simulator signal which can be ignored.



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2.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dBµV/m)	Detector
	Above 1GHz	74 54	Peak 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:	101.0 kPa
Pretest these modes to find the worst case:	<p>a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low</p> <p>b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid</p> <p>c: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+MP4+LTE Band 5 (RX) High</p> <p>d: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+NFC ON+LTE Band 12 (RX) Low</p> <p>e: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 14 (RX) Mid</p> <p>f: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+LTE Band 17 (RX) High</p> <p>g: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 26 (RX) Low</p> <p>h: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 71 (RX) Mid</p> <p>i: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+SA Band 5(RX) High</p> <p>j: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 26(RX) Low</p> <p>k: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+SA Band 71(RX) Mid</p> <p>l: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+WLAN6e(Idle)+GSM850 (RX) Low</p>



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Rev.: 01

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The worst case for final test:	a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low
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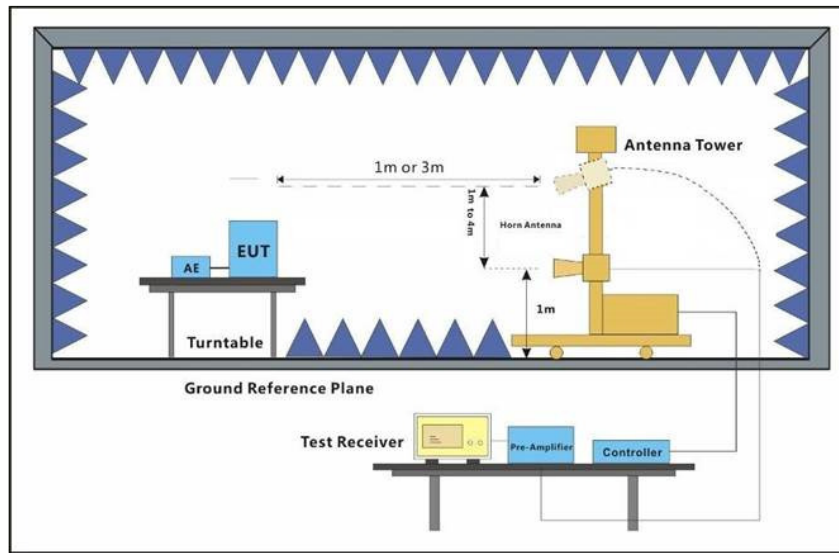
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.



2.3.3 Measurement Data

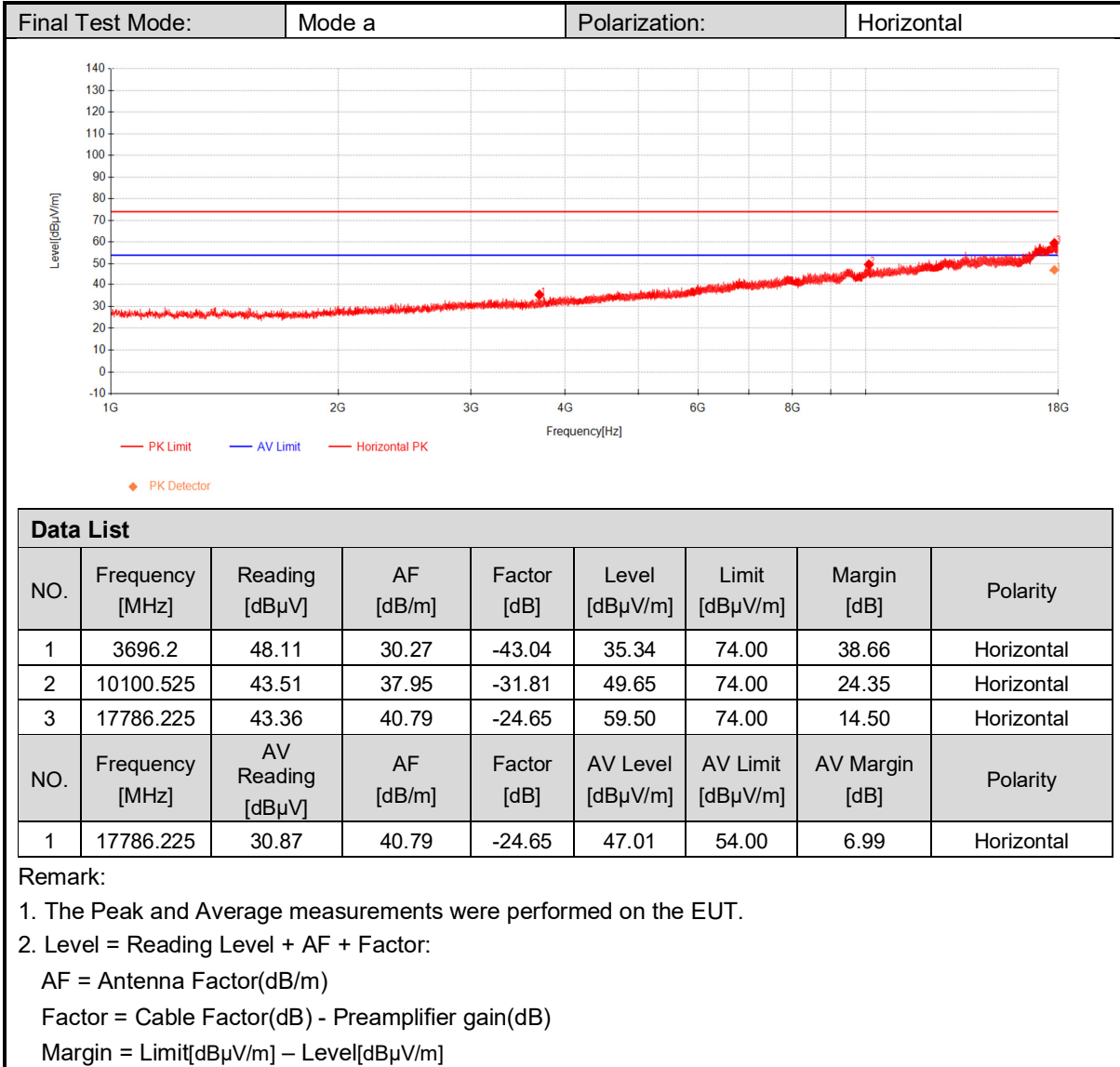
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

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.



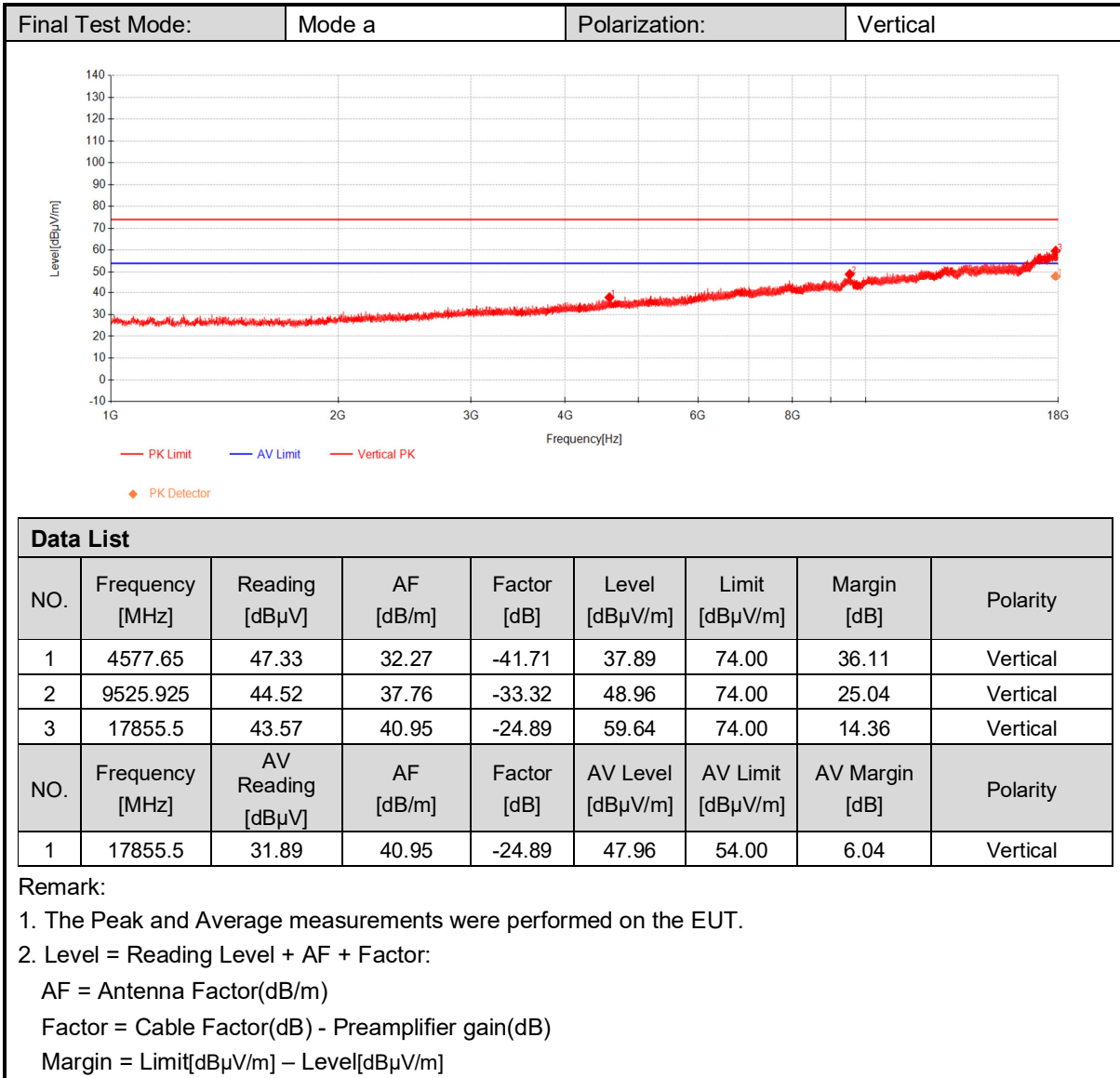
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3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2023/02/06	2024/02/05
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
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



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RE Test System					
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
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
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
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	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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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)
<p>Remark:</p> <p>The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results</p> <ul style="list-style-type: none"> – 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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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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