



Report No.: SEWM2308000314RG09

Rev.: 01

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TEST REPORT

Application No.: SEWM2308000314RG

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: XD6U653DS

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

Date of Receipt: 2023/08/19

Date of Test: 2023/09/15 to 2023/09/21

Date of Issue: 2023/10/13

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

Authorized Signature:

Wei Wei

Wei Wei

Wireless Laboratory Manager



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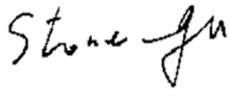


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/10/13		Original

Prepared By	 (King-p Li) / Test Engineer
Checked By	 (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:	NA		
IMEI:	860284060012464		
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:

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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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:	a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid c: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+MP4+LTE Band 5 (RX) High d: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+NFC ON+LTE Band 12 (RX) Low e: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 14 (RX) Mid f: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+LTE Band 17 (RX) High g: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 26 (RX) Low h: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 71 (RX) Mid i: adapter+usb Cable+BT(Idle)+Earphones+WLAN6e(Idle)+GNSS+SA Band 5(RX) High j: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 26(RX) Low k: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+SA Band 71(RX) Mid



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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:	a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (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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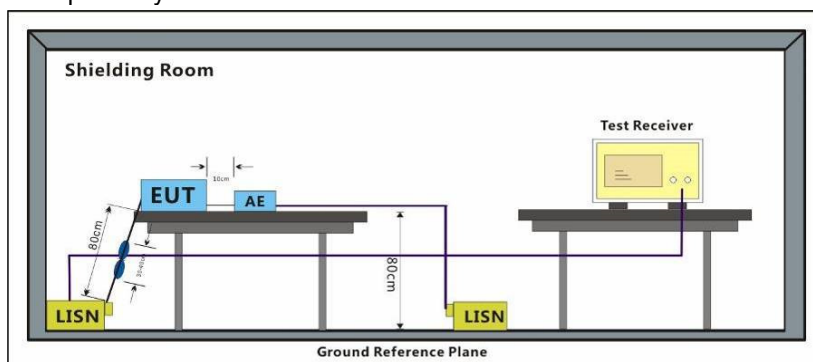
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2.1.2 Test Setup Procedures

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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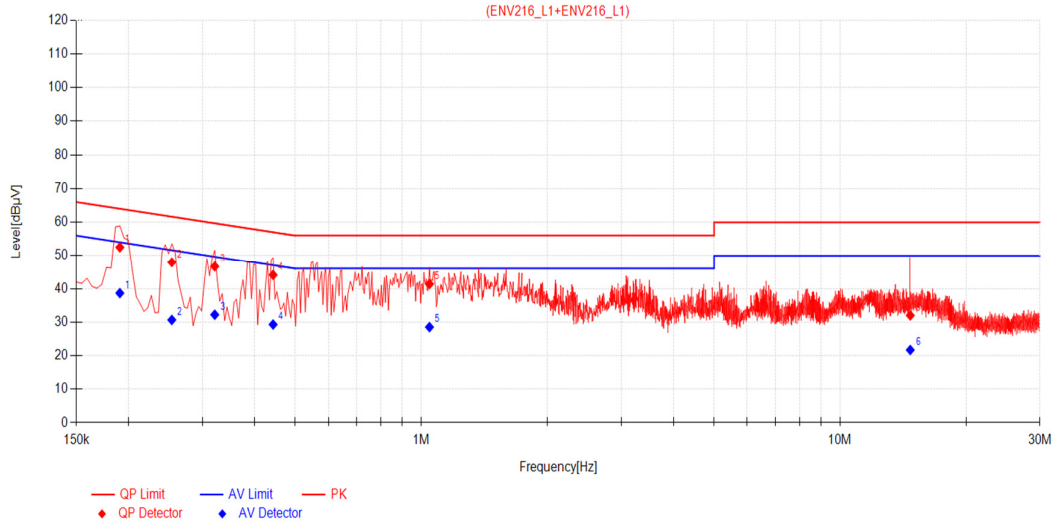
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Final Test Mode:

Mode a

Phase:

Line



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	40.85	52.52	64.01	11.49	26.96	38.63	54.01	15.38	PASS
2	0.2535	11.64	36.30	47.94	61.64	13.70	19.00	30.64	51.64	21.00	PASS
3	0.3210	11.62	35.01	46.63	59.68	13.05	20.57	32.19	49.68	17.49	PASS
4	0.4425	11.62	32.46	44.08	57.01	12.93	17.65	29.27	47.01	17.74	PASS
5	1.0455	11.73	29.61	41.34	56.00	14.66	16.77	28.50	46.00	17.50	PASS
6	14.7120	11.92	20.07	31.99	60.00	28.01	9.76	21.68	50.00	28.32	PASS

Remark:

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



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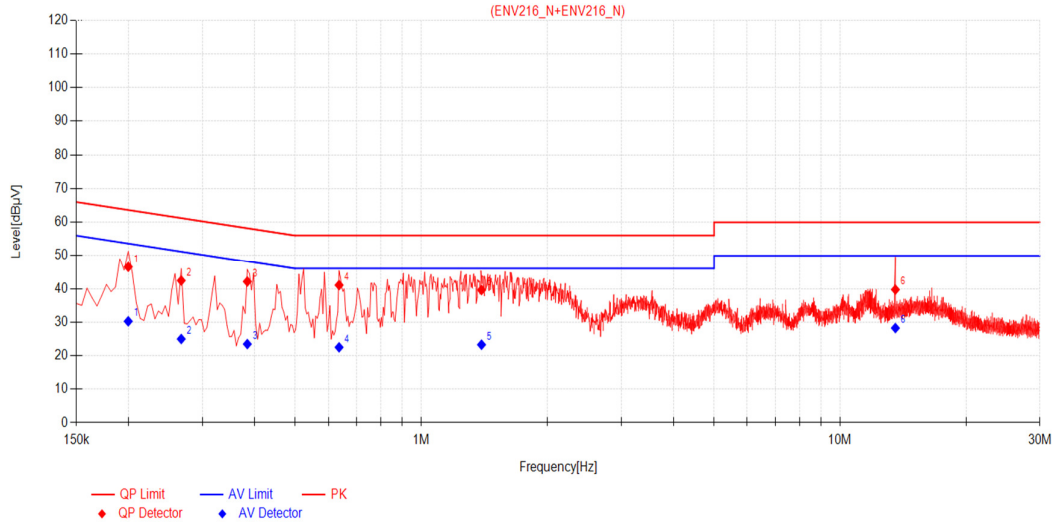
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Final Test Mode: Mode a Phase: Neutral



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	0.1995	11.65	34.85	46.50	63.63	17.13	18.58	30.23	53.63	23.40	PASS
2	0.2670	11.64	30.75	42.39	61.21	18.82	13.31	24.95	51.21	26.26	PASS
3	0.3840	11.61	30.48	42.09	58.19	16.10	11.84	23.45	48.19	24.74	PASS
4	0.6360	11.64	29.39	41.03	56.00	14.97	10.83	22.47	46.00	23.53	PASS
5	1.3920	11.73	27.83	39.56	56.00	16.44	11.53	23.26	46.00	22.74	PASS
6	13.5555	11.91	27.78	39.69	60.00	20.31	16.31	28.22	50.00	21.78	PASS

Remark:

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



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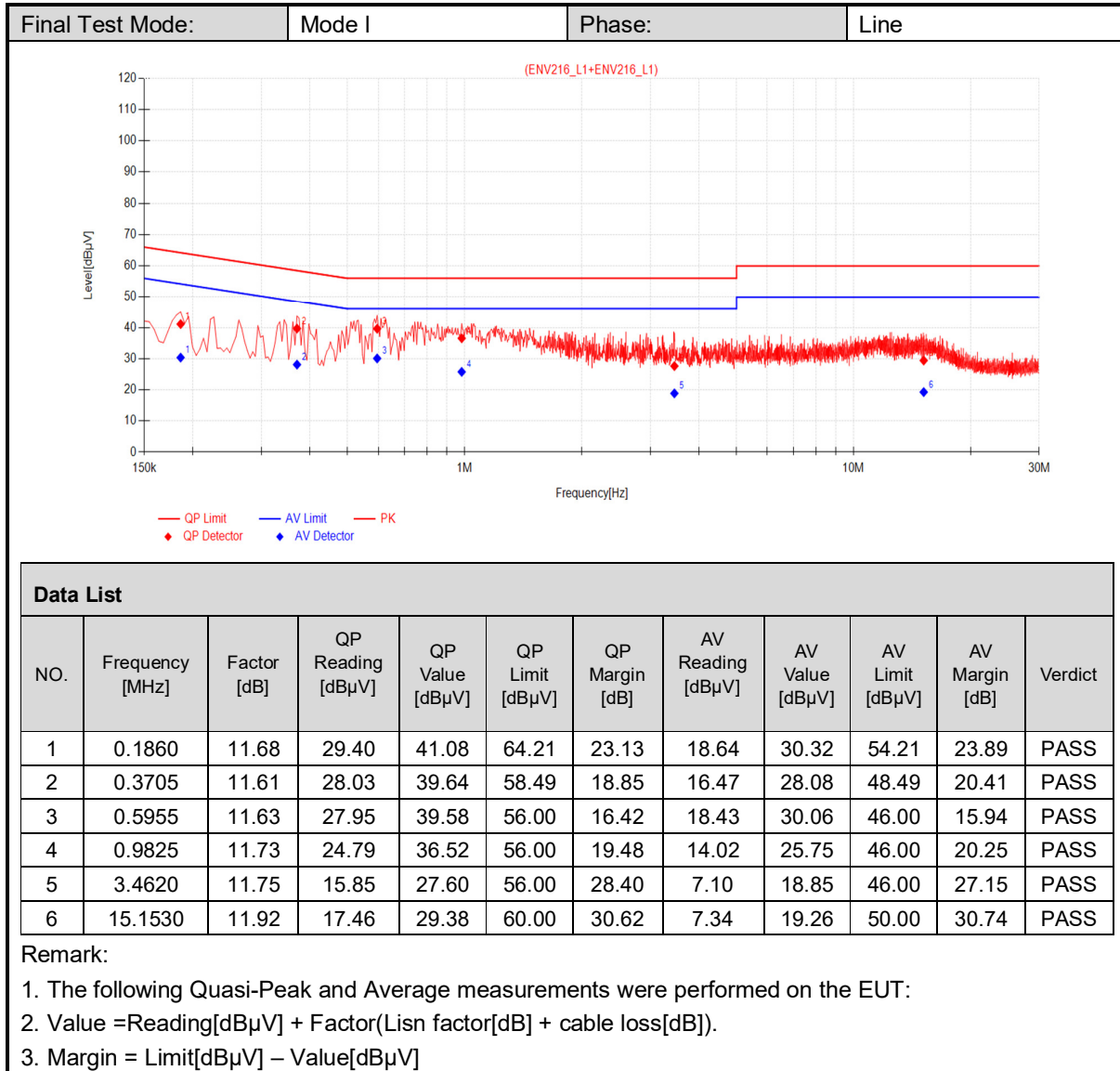
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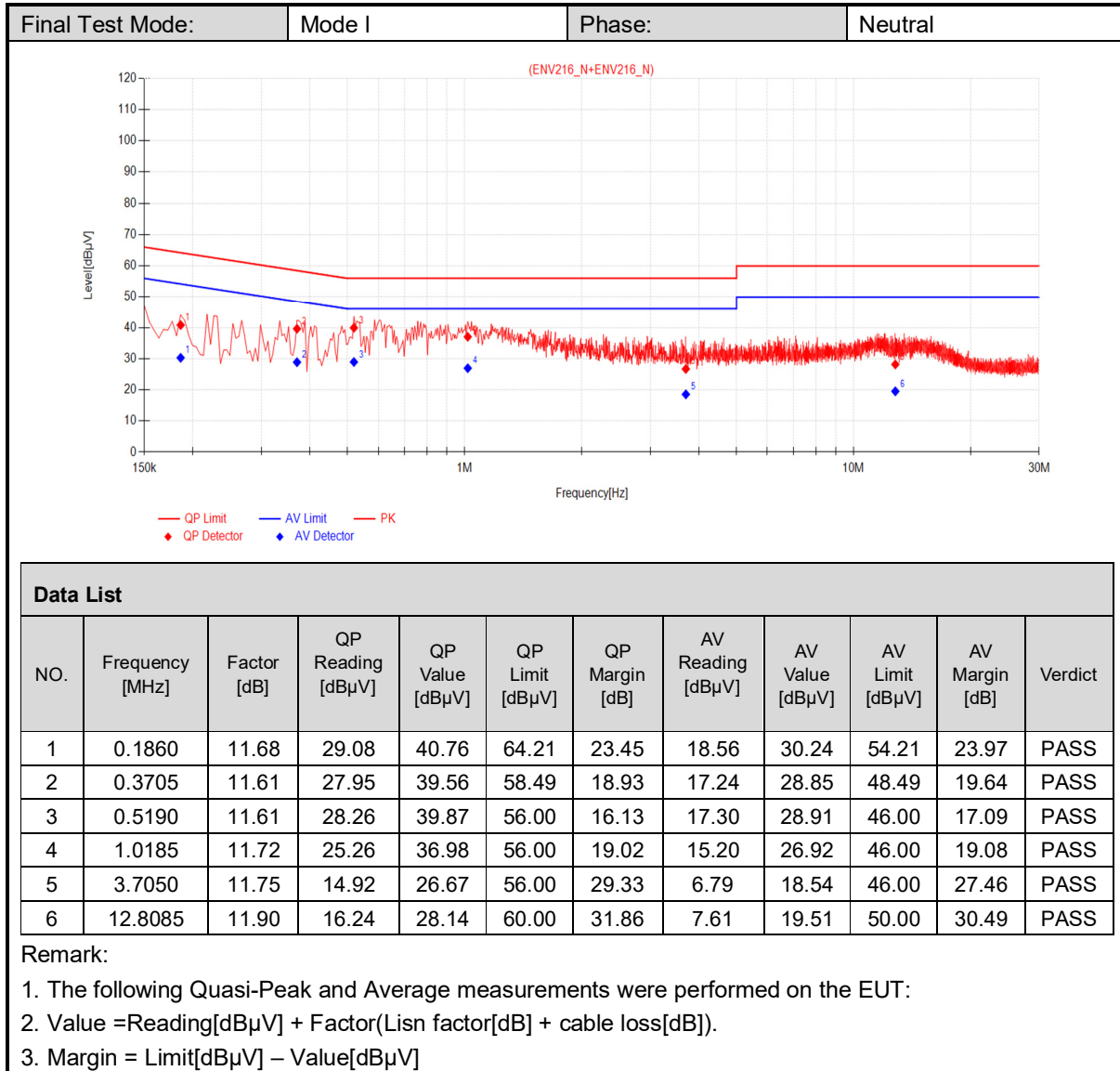
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2.2 Radiated Emissions (30MHz-1GHz)

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:	a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid c: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High d: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (RX) Low e: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 14 (RX) Mid f: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 17 (RX) High g: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 26 (RX) Low h: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 71 (RX) Mid i: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 5(RX) High j: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+SA Band 26(RX) Low k: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 71(RX) Mid l: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+5GWLAN(Idle)+WCDMA Band 5(RX) Mid



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The worst case for final test:	b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid l: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+5GWLAN(Idle)+WCDMA Band 5(RX) Mid
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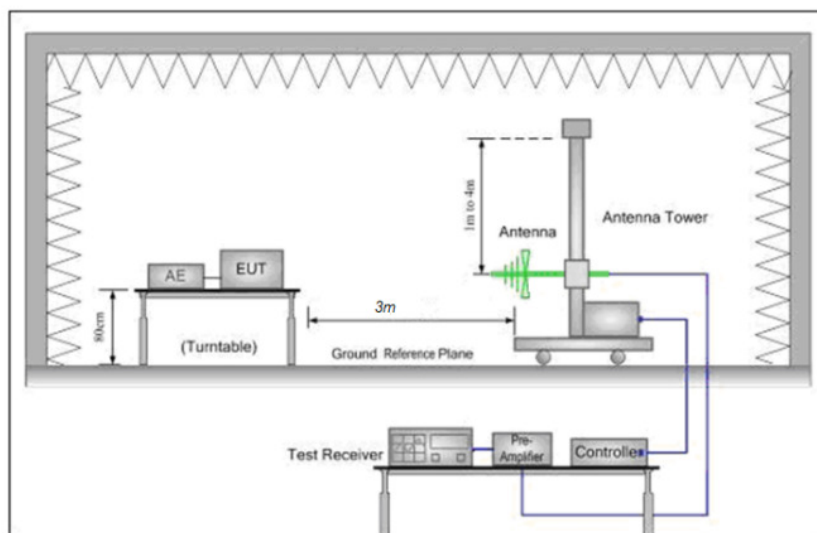
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2.2.2 Test Setup Procedures

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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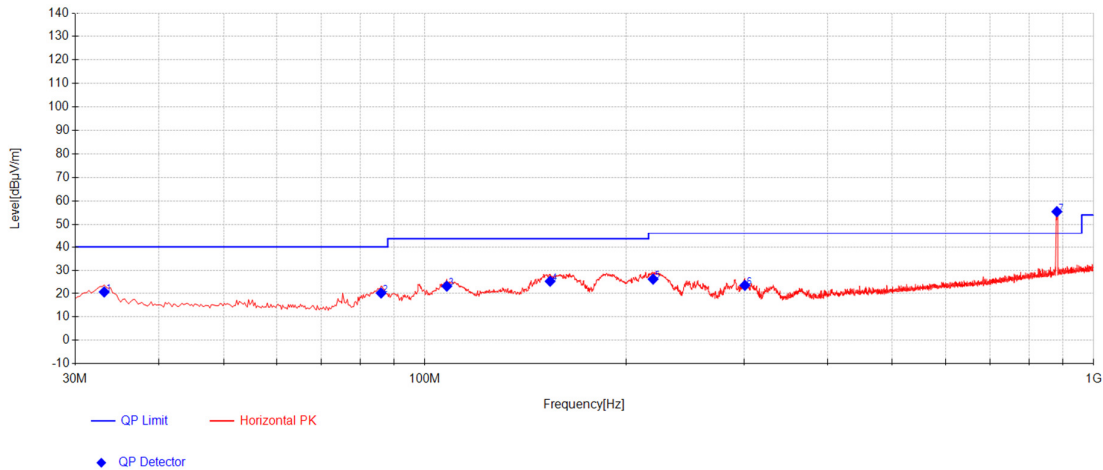
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Final Test Mode: Mode b Polarization: Horizontal



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	33.1525	36.44	18.28	-34.01	20.71	40.00	19.29	155	54	Horizontal
2	86.0175	38.94	14.90	-33.60	20.24	40.00	19.76	269	65	Horizontal
3	107.8425	40.37	16.21	-33.41	23.17	43.50	20.33	147	110	Horizontal
4	153.9175	40.04	18.39	-33.14	25.29	43.50	18.21	124	331	Horizontal
5	219.3925	42.51	16.27	-32.58	26.20	46.00	19.80	158	155	Horizontal
6	300.8725	37.15	18.52	-32.15	23.52	46.00	22.48	121	0	Horizontal
7*	880.9325	55.21	29.63	-29.38	55.46	-	-	233	198	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[dBμV/m] -Value[dBμV/m]

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



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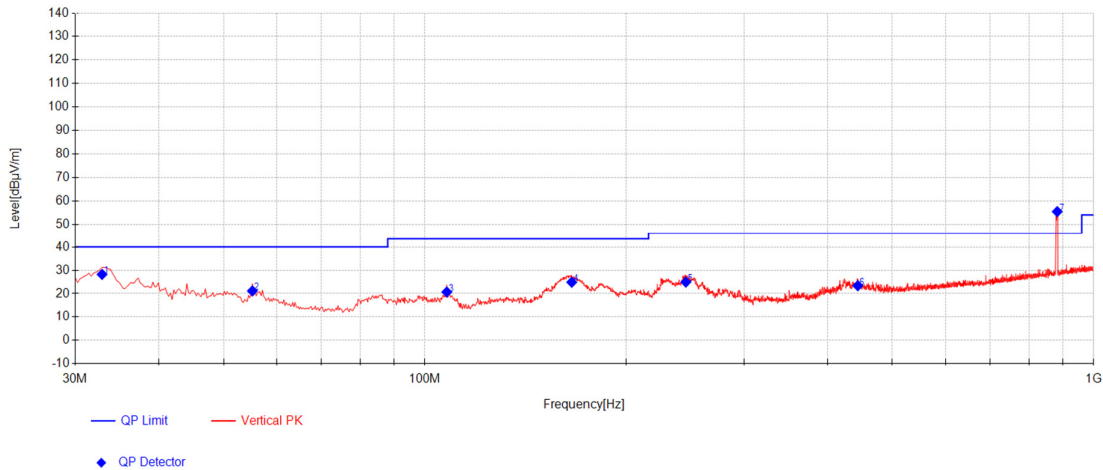
Page: 20 of 30

Final Test Mode:

Mode b

Polarization:

Vertical



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	32.91	43.99	18.25	-34.01	28.23	40.00	11.77	154	71	Vertical
2	55.22	36.08	18.99	-33.92	21.15	40.00	18.85	126	1	Vertical
3	107.8425	37.89	16.21	-33.41	20.69	43.50	22.81	269	338	Vertical
4	165.8	40.09	17.78	-32.99	24.88	43.50	18.62	154	338	Vertical
5	245.5825	40.17	17.24	-32.48	24.94	46.00	21.06	157	247	Vertical
6	443.9475	32.40	22.22	-31.25	23.37	46.00	22.63	225	38	Vertical
7*	882.145	55.20	29.65	-29.37	55.48	-	-	182	338	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[dBμV/m] - Value[dBμV/m]

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



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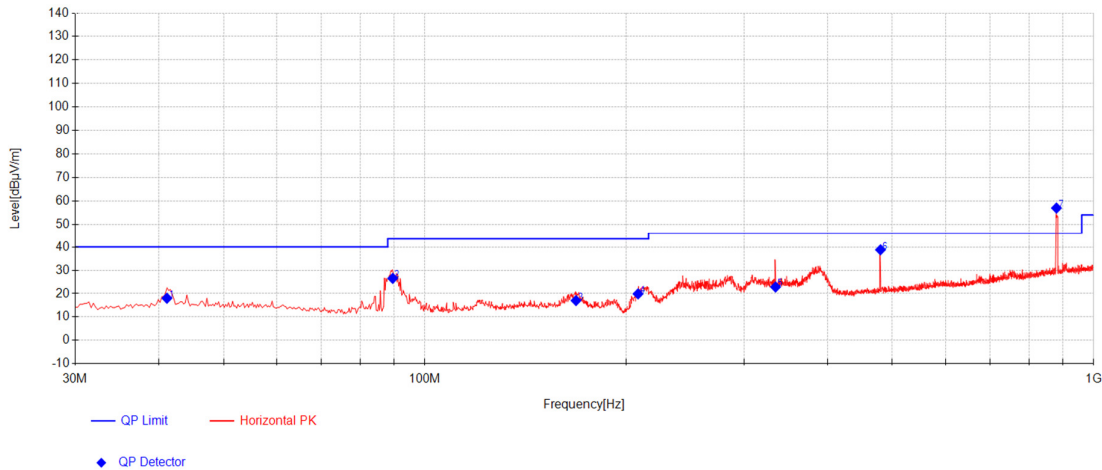
Page: 21 of 30

Final Test Mode:

Mode I

Polarization:

Horizontal


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	41.1449	32.37	19.64	-33.99	18.02	40.00	21.98	199	343	Horizontal
2	89.5205	45.36	14.73	-33.57	26.52	43.50	16.98	220	6	Horizontal
3	168.2603	32.42	17.56	-32.96	17.02	43.50	26.48	216	136	Horizontal
4	208.3344	36.83	15.68	-32.63	19.88	43.50	23.62	208	182	Horizontal
5	334.4566	35.35	19.47	-31.98	22.84	46.00	23.16	115	43	Horizontal
6	480.0001	46.99	22.98	-31.20	38.77	46.00	7.23	108	246	Horizontal
7*	879.72	56.75	29.62	-29.39	56.98	-	-	146	339	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[dBμV/m] -Value[dBμV/m]

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



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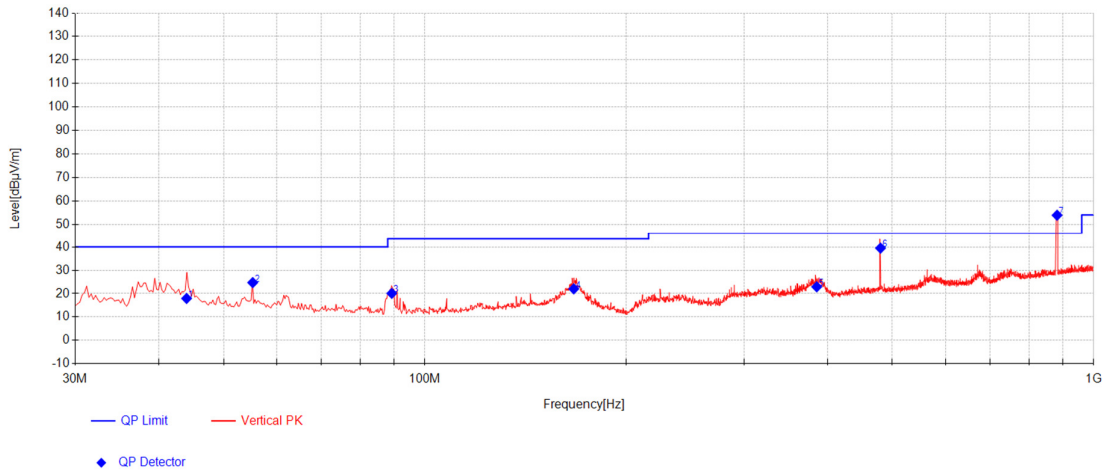
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Final Test Mode: Mode I Polarization: Vertical



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	44.0235	32.43	19.50	-33.99	17.94	40.00	22.06	120	31	Vertical
2	55.2867	39.65	18.99	-33.92	24.72	40.00	15.28	158	360	Vertical
3	89.2345	38.94	14.74	-33.58	20.10	43.50	23.40	220	98	Vertical
4	166.9827	37.35	17.65	-32.97	22.03	43.50	21.47	122	270	Vertical
5	385.3837	33.64	20.87	-31.59	22.92	46.00	23.08	203	255	Vertical
6	480.0105	47.69	22.98	-31.20	39.47	46.00	6.53	108	15	Vertical
7*	881.66	53.67	29.64	-29.38	53.94	-	-	254	357	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[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	Peak
		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:	101.0 kPa
Pretest these modes to find the worst case:	a: adapter+usb Cabl+BT(Idle)+Earphones+2.4GWLAN(Idle)+Camera(Rear)+GSM850 (RX) Low b: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+Camera(Front)+WCDMA Band 5(RX) Mid c: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+MP4+LTE Band 5 (RX) High d: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+NFC ON+LTE Band 12 (RX) Low e: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 14 (RX) Mid f: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 17 (RX) High g: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+LTE Band 26 (RX) Low h: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+LTE Band 71 (RX) Mid i: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 5(RX) High j: adapter+usb Cable+BT(Idle)+Earphones+5GWLAN(Idle)+GNSS+SA Band 26(RX) Low k: adapter+usb Cable+BT(Idle)+Earphones+2.4GWLAN(Idle)+GNSS+SA Band 71(RX) Mid l: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+5GWLAN(Idle)+WCDMA Band 5(RX) Mid



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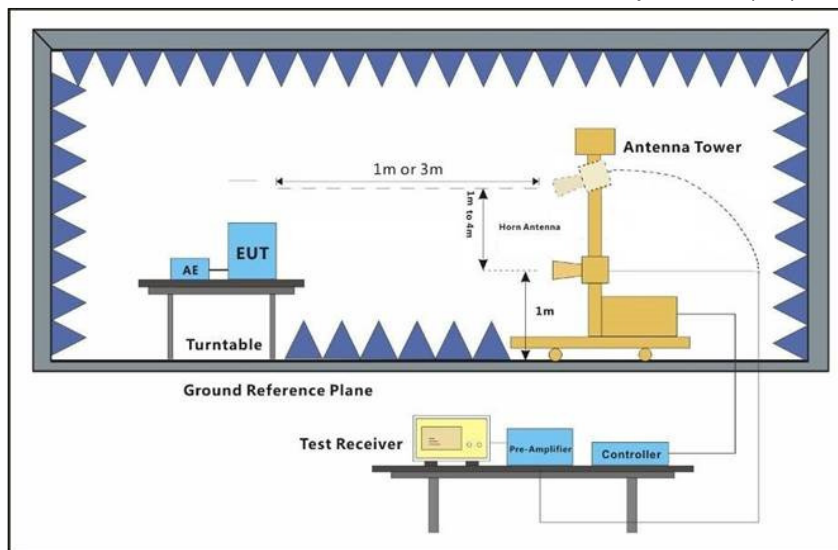
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The worst case for final test:

I: Transfer data between the EUT and the PC+USB cable+BT(Idle)+Earphones+5GWLAN(Idle)+WCDMA Band 5(RX) Mid

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 $20 \cdot \log(3/1) = 9.54$ 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.



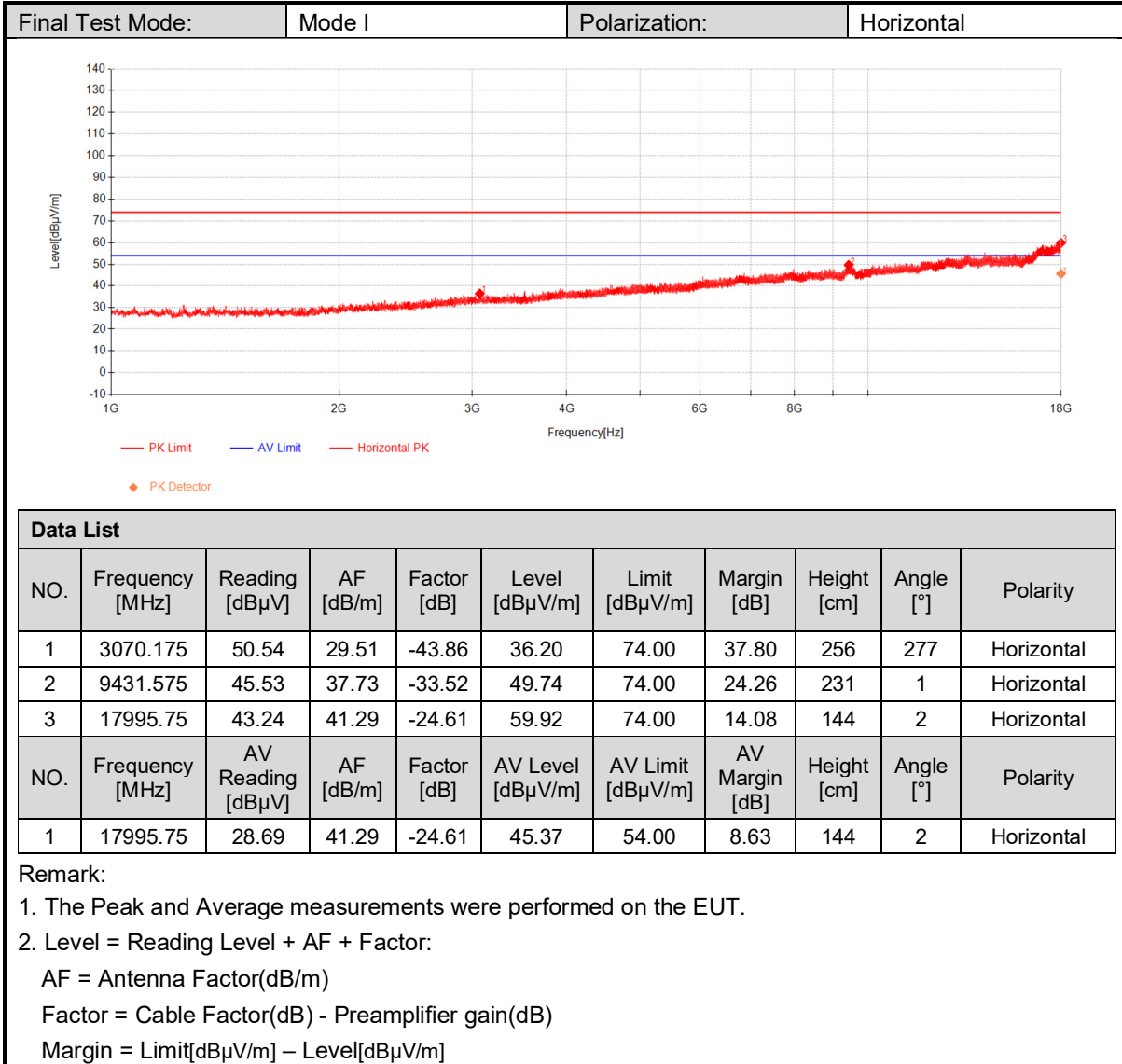
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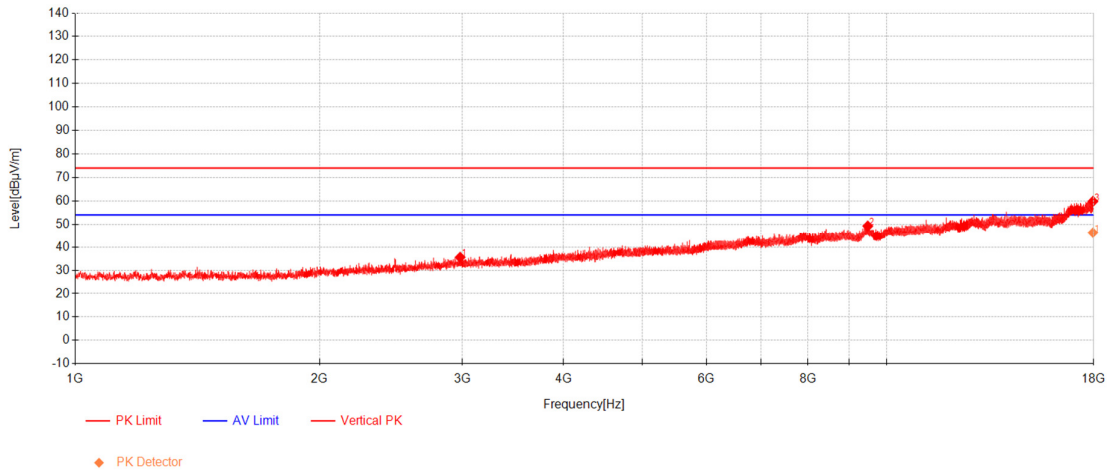
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Final Test Mode: Mode I Polarization: Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.775	50.00	29.42	-43.87	35.55	74.00	38.45	256	360	Vertical
2	9481.725	44.94	37.74	-33.38	49.30	74.00	24.70	133	356	Vertical
3	17962.175	43.42	41.21	-24.79	59.84	74.00	14.16	287	267	Vertical
NO.	Frequency [MHz]	AV Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Level [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17962.175	29.86	41.21	-24.79	46.28	54.00	14.16	287	267	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[dBμV/m] – Level[dBμV/m]



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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	$\pm 2.9\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (30M -1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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