

Report No.: SEWM2209000168RG08

Rev.: 01

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TEST REPORT

Application No.: SEWM2209000168RG
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 22101320G
Trade Mark: POCO
FCC ID: 2AFZZ1320G
Standard(s): FCC 47 CFR Part 15, Subpart B
Date of Receipt: 2022/09/29
Date of Test: 2022/10/10 to 2022/10/12
Date of Issue: 2022/10/26

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

Authorized Signature:

Panta Sun

Panta Sun

Wireless Laboratory Manager



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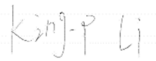
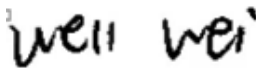
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/10/26		Original

Prepared By	 (King-p Li) / Test Engineer
Checked By	 (Well Wei) / 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

Product Name:	Mobile Phone		
Model No. (EUT):	22101320G		
Trade Mark:	POCO		
Hardware Version:	P2		
Software Version:	MIUI 14		
IMEI:	869168060034183 869168060034191, 869168060035289 869168060035297		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1770	2110~2170
	NR Band n5	824~849	869~894
	NR Band n7	2500~2570	2620~2690
	NR Band n38	2570~2620	2570~2620
	NR Band n41	2496~2690	2496~2690
	NR Band n77	3450-3550	3450-3550
		3700-3980	3700-3980
	NR Band n78	3450-3550	3450-3550
		3700-3800	3700-3800
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850



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	NFC	13.56	/
	GNSS(GPS+Glonass+Beidou+Galileo+SBAS+QZSS)	/	1559~1610
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Accessory:

Adapter No.	Model No.	Specification	Manufacturer
1	MDY-12-EJ	I/P: 100 - 240 V~,50/60Hz,1.7A, O/P (Normal) : 5.0V,3.0A 15.0W, O/P (Fast) : 5.0~20.0V,6.2~3.25A 67.0W Max	Xiaomi Communications Co., Ltd.

Battery No.	Model No.	Specification	Manufacturer
1	BP4K	3.87 Vdc, 4900 mAh	Zhejiang Sunwoda Electronic Co., Ltd.

Cable No.	Model No.	Specification	Manufacturer
1	B26260	1.0 meter, non-shielded cable, with w/o ferrite core	Xiaomi Communications Co., Ltd.



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	Smavwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05

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:	101.0kPa
Pretest these modes to find the worst case:	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM 850 8+256G b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA 5 8+256G c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5 8+256G d: adapter+usb Cable+BT+5GWLAN +GPS RX+SA Band 5 8+256G e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 5 6+128G f: Transfer data between the EUT and the PC+USB cable 8+256G g: Transfer data between the EUT and the PC+USB cable 6+128G
The worst case for final test:	e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 5 6+128G g: Transfer data between the EUT and the PC+USB cable 6+128G



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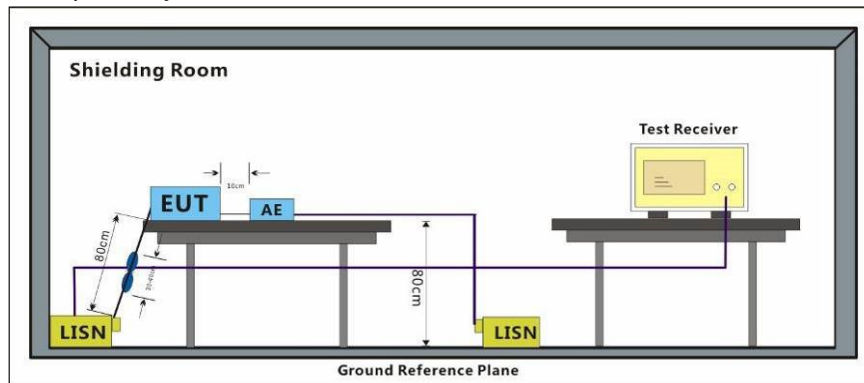
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2.1.2 Test Setup Procedures

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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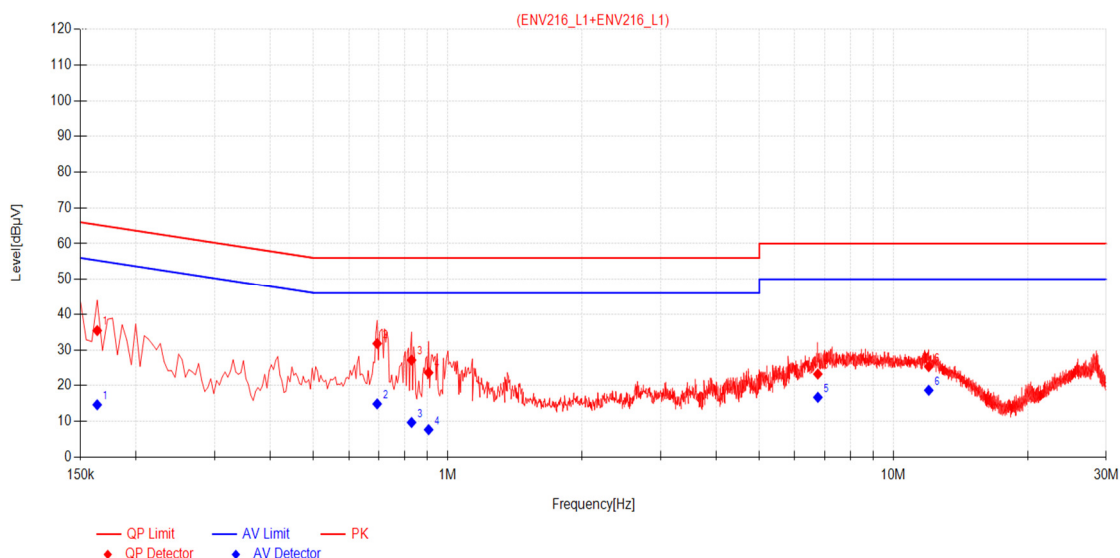
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Final Test Mode:

Mode e

Phase:

Line



Final 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	0.1635	10.69	24.73	35.42	65.28	29.86	3.95	14.64	55.28	40.64	PASS
2	0.6945	10.58	21.20	31.78	56.00	24.22	4.32	14.90	46.00	31.10	PASS
3	0.8295	10.53	16.62	27.15	56.00	28.85	-0.83	9.70	46.00	36.30	PASS
4	0.9060	10.59	13.05	23.64	56.00	32.36	-2.91	7.68	46.00	38.32	PASS
5	6.7650	10.69	12.56	23.25	60.00	36.75	6.04	16.73	50.00	33.27	PASS
6	11.9985	10.58	14.75	25.33	60.00	34.67	8.12	18.70	50.00	31.30	PASS

Remark:

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



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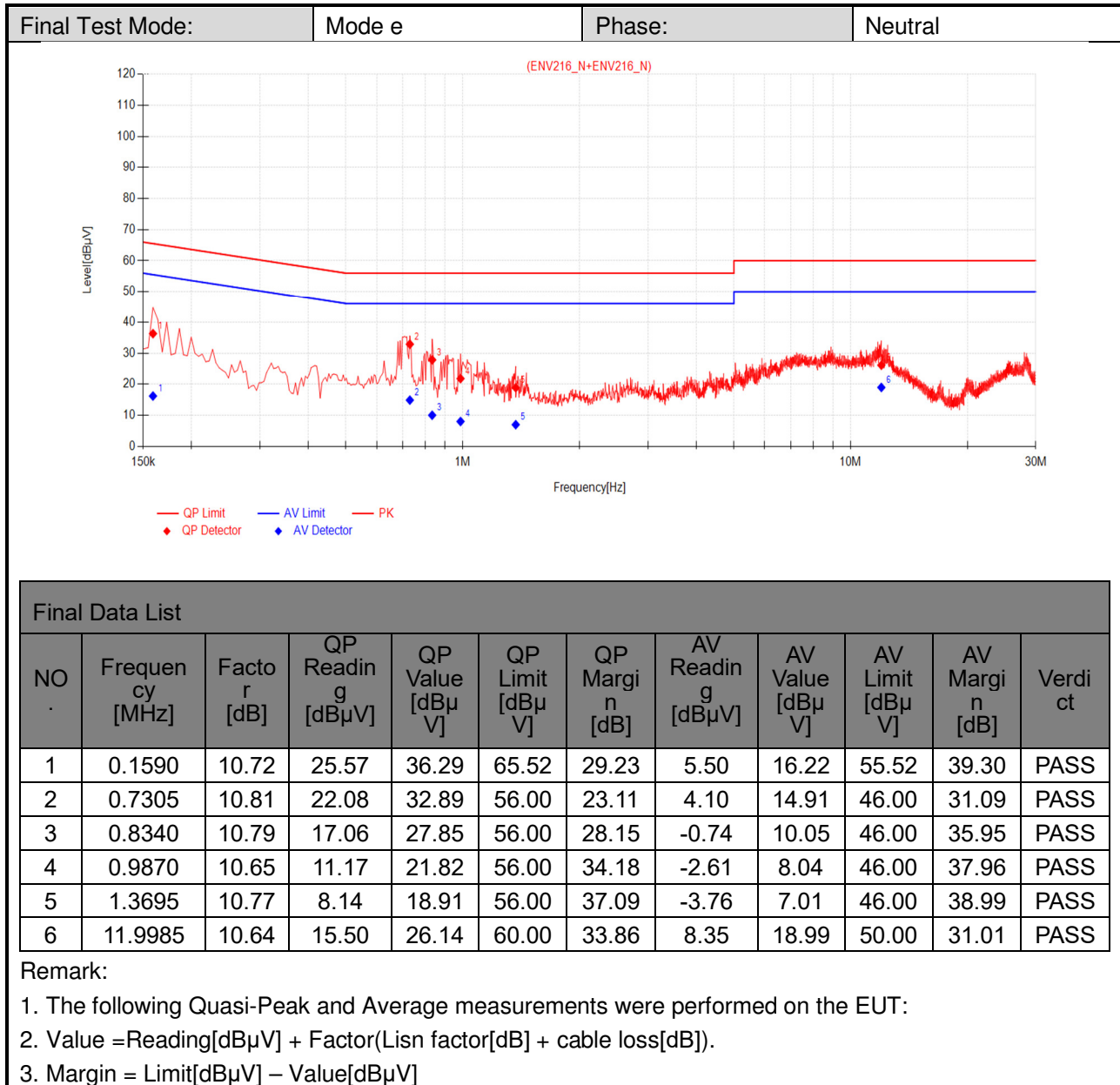
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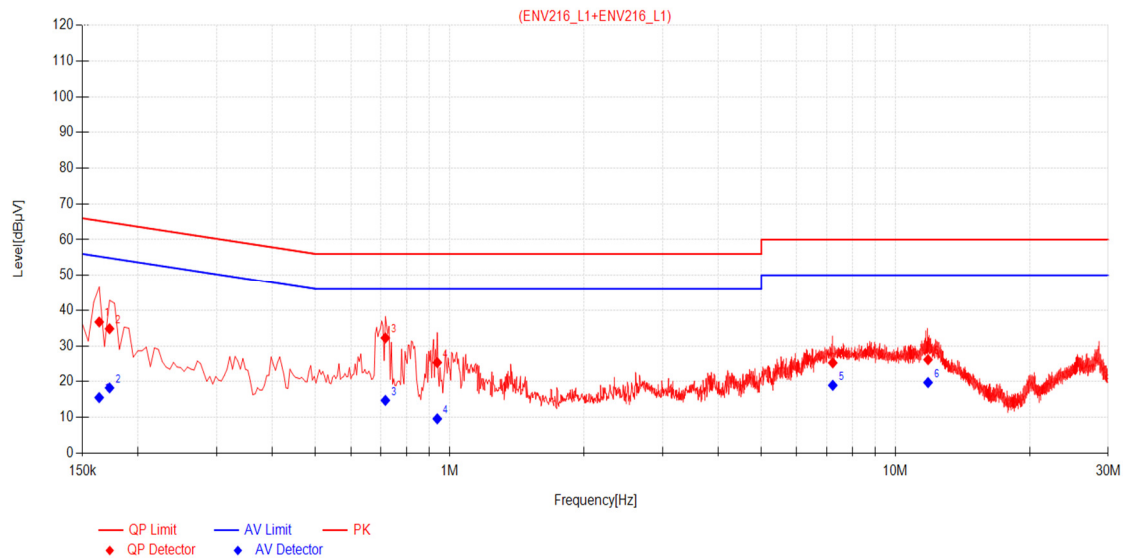
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Final Test Mode:

Mode g

Phase:

Line



Final 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	0.1635	10.69	26.01	36.70	65.28	28.58	4.86	15.55	55.28	39.73	PASS
2	0.1725	10.73	24.08	34.81	64.84	30.03	7.53	18.26	54.84	36.58	PASS
3	0.7170	10.57	21.67	32.24	56.00	23.76	4.19	14.76	46.00	31.24	PASS
4	0.9375	10.56	14.78	25.34	56.00	30.66	-0.96	9.60	46.00	36.40	PASS
5	7.2330	10.70	14.56	25.26	60.00	34.74	8.28	18.98	50.00	31.02	PASS
6	11.8320	10.58	15.58	26.16	60.00	33.84	9.17	19.75	50.00	30.25	PASS

Remark:

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



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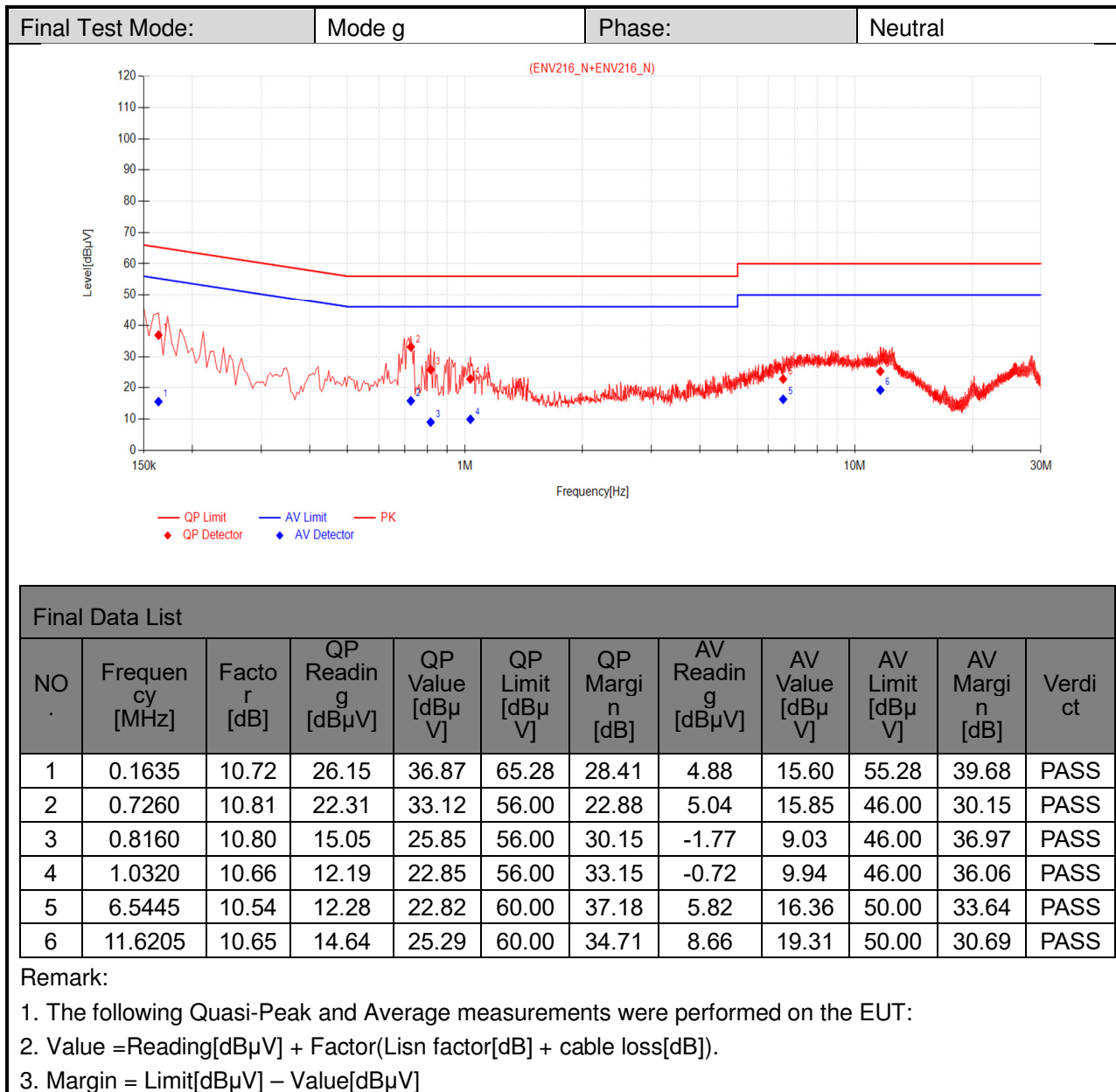
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2.2 Radiated Emissions (30MHz-1GHz)

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:	101.0kPa
Pretest these modes to find the worst case:	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM 850 8+256G b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA 5 8+256G c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5 8+256G d: adapter+usb Cable+BT+5GWLAN +GPS RX+SA Band 5 8+256G e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 5 6+128G f: Transfer data between the EUT and the PC+USB cable 8+256G g: Transfer data between the EUT and the PC+USB cable 6+128G
The worst case for final test:	c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5 8+256G g: Transfer data between the EUT and the PC+USB cable 6+128G



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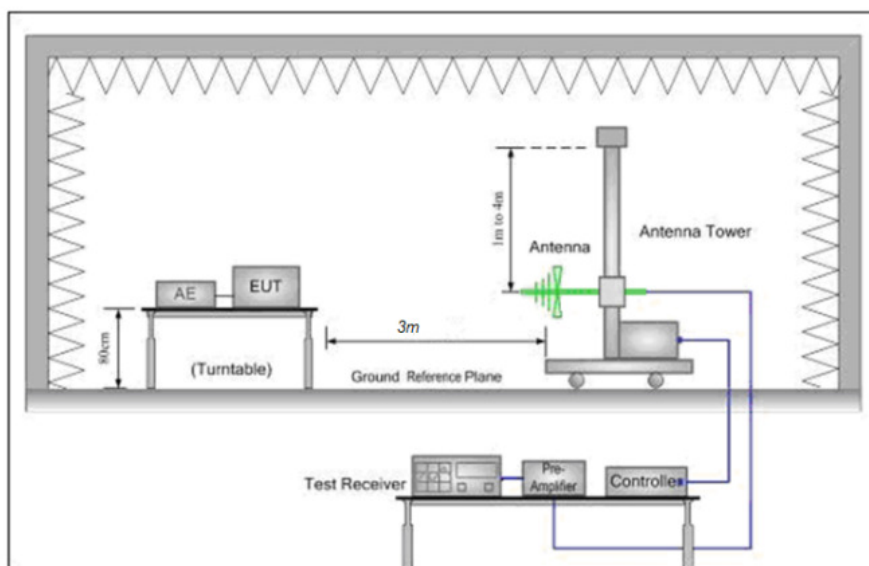
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2.2.2 Test Setup Procedures

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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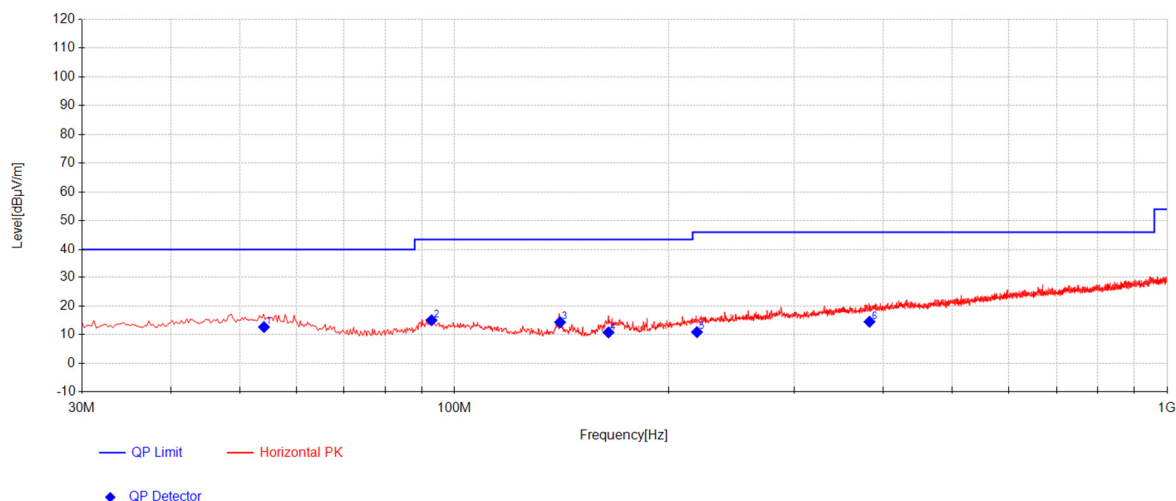
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Final Test Mode:	Mode c	Polarization:	Horizontal
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Final Data List

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	54.0673	27.64	12.84	-27.86	12.62	40.00	27.38	117	70	Horizontal
2	92.9170	32.72	9.86	-27.58	15.00	43.50	28.50	215	4	Horizontal
3	140.7387	33.97	7.48	-27.16	14.29	43.50	29.21	120	224	Horizontal
4	164.5446	29.52	7.85	-26.63	10.74	43.50	32.76	180	146	Horizontal
5	219.0558	25.88	11.42	-26.45	10.85	46.00	35.15	111	308	Horizontal
6	382.4317	24.81	15.14	-25.48	14.47	46.00	31.53	220	344	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]



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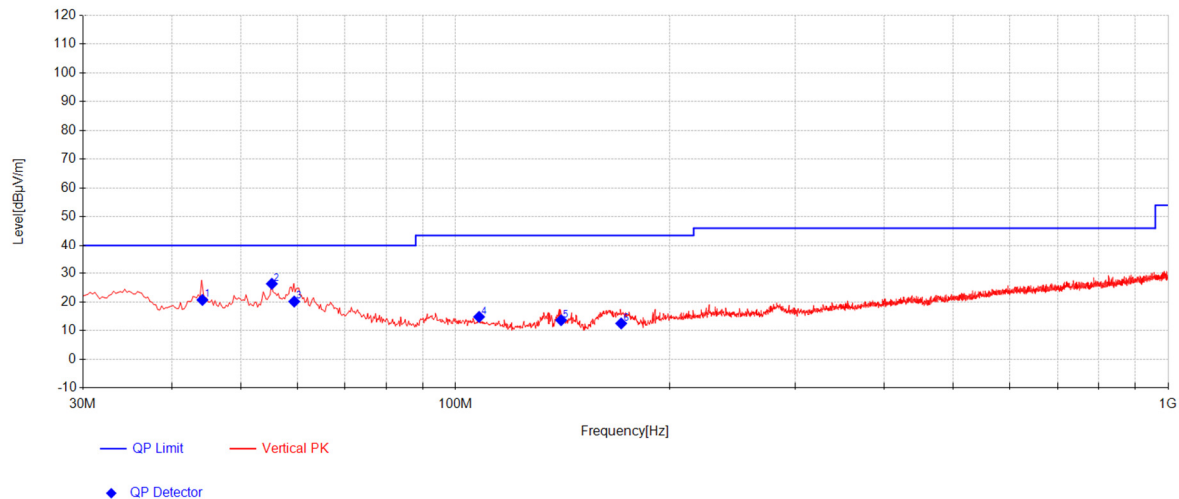
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Final Test Mode:

Mode c

Polarization:

Vertical



Final 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	44.1705	35.81	12.91	-28.05	20.67	40.00	19.33	106	230.3	Vertical
2	55.2843	41.57	12.55	-27.81	26.31	40.00	13.69	106.3	249.2	Vertical
3	59.4185	36.21	11.56	-27.65	20.12	40.00	19.88	114.8	70.4	Vertical
4	107.9830	31.46	10.72	-27.41	14.77	43.50	28.73	105.9	3.4	Vertical
5	140.7703	33.29	7.48	-27.16	13.61	43.50	29.89	118.6	237.3	Vertical
6	170.9019	31.03	7.94	-26.49	12.48	43.50	31.02	120	21	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]



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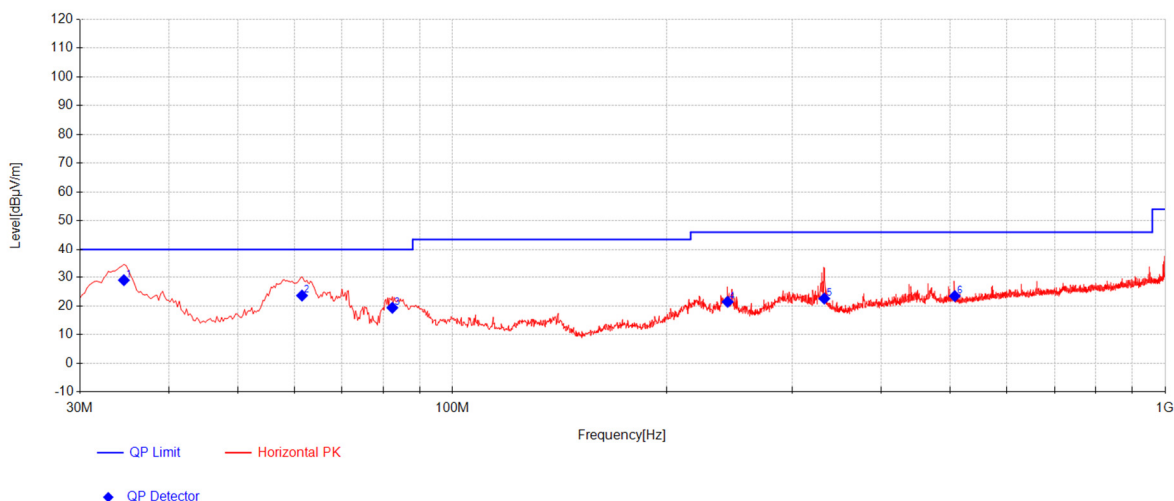
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Final Test Mode: Mode g Polarization: Horizontal



Final 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	34.6075	46.65	10.67	-28.35	28.97	40.00	11.03	102	226	Horizontal
2	61.525	40.26	10.99	-27.65	23.60	40.00	16.40	142	327	Horizontal
3	82.38	39.62	7.60	-27.88	19.34	40.00	20.66	263	30	Horizontal
4	243.4	35.68	11.85	-26.13	21.40	46.00	24.60	265	86	Horizontal
5	332.64	34.25	14.08	-25.79	22.54	46.00	23.46	241	360	Horizontal
6	506.9975	31.29	16.97	-24.83	23.43	46.00	22.57	185	358	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]



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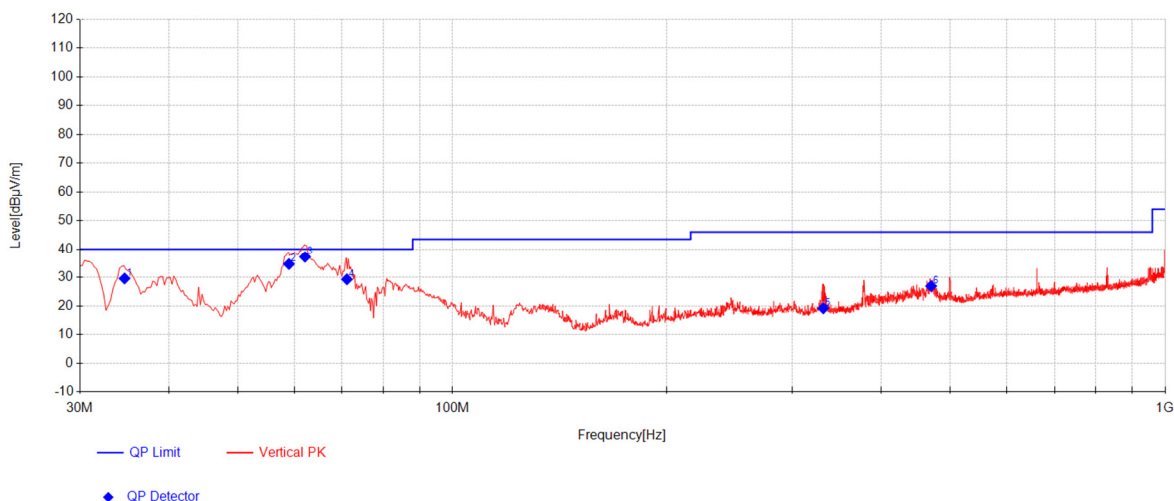
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Final Test Mode:

Mode g

Polarization:

Vertical



Final 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	34.6834	47.26	10.67	-28.35	29.58	40.00	10.42	112	107	Vertical
2	58.9887	50.66	11.67	-27.67	34.66	40.00	5.34	120	248	Vertical
3	62.1406	54.00	10.86	-27.65	37.21	40.00	2.79	106	128	Vertical
4	71.1371	48.52	8.53	-27.76	29.29	40.00	10.71	106	101	Vertical
5	331.5531	30.93	14.01	-25.78	19.16	46.00	26.84	189	57	Vertical
6	469.7446	35.52	16.26	-24.86	26.92	46.00	19.08	120	33	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]



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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:	101.0kPa
Pretest these modes to find the worst case:	a: adapter+usb Cable+BT+2.4GWLAN +Camera(Rear)+GSM 850 8+256G b: adapter+usb Cable+BT+5GWLAN +Camera(Front)+WCDMA 5 8+256G c: adapter+usb Cable+BT+2.4GWLAN +MP4+LTE Band 5 8+256G d: adapter+usb Cable+BT+5GWLAN +GPS RX+SA Band 5 8+256G e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 5 6+128G f: Transfer data between the EUT and the PC+USB cable 8+256G g: Transfer data between the EUT and the PC+USB cable 6+128G
The worst case for final test:	e: adapter+usb Cable+BT+2.4GWLAN +NFC ON+LTE Band 5 6+128G g: Transfer data between the EUT and the PC+USB cable 6+128G



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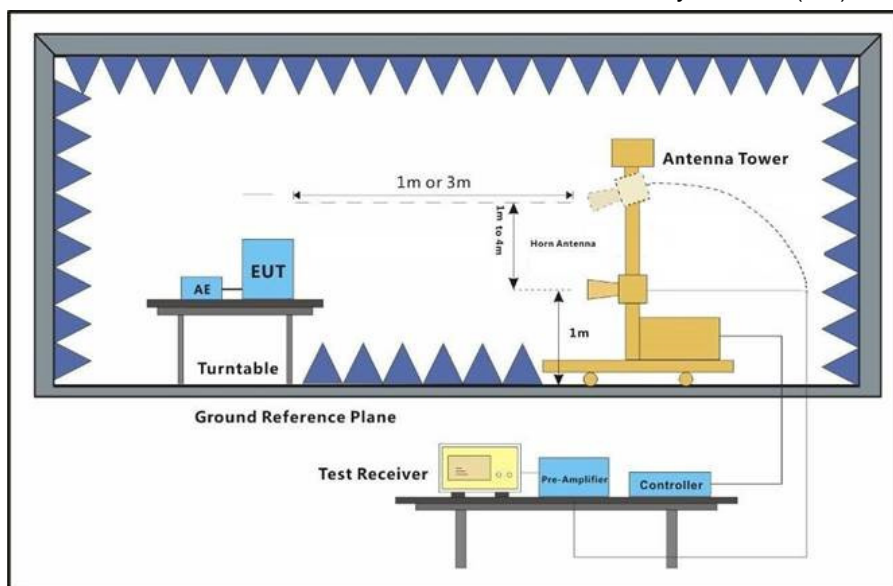
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2.3.2 Test Setup Procedures

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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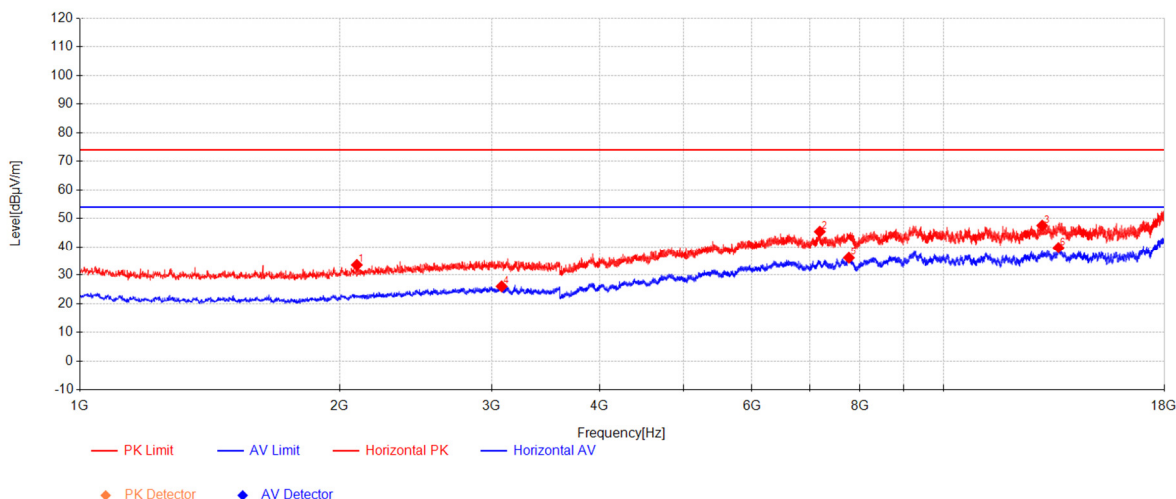
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Final Test Mode:

Mode e

Polarization:

Horizontal



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2093.95	54.25	27.09	33.45	-47.89	74.00	40.55	265	154	Horizontal
2	7192.25	51.19	36.32	45.38	-42.12	74.00	28.62	241	173	Horizontal
3	13009.65	42.93	39.61	47.52	-35.02	74.00	26.48	142	173	Horizontal
4	3079.95	42.94	29.57	25.98	-46.53	54.00	28.02	201	3	Horizontal
5	7771.95	39.87	37.04	35.98	-40.93	54.00	18.02	185	360	Horizontal
6	13586.8	34.04	39.95	39.67	-34.32	54.00	14.33	263	134	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[dBμV/m] – Level[dBμV/m]



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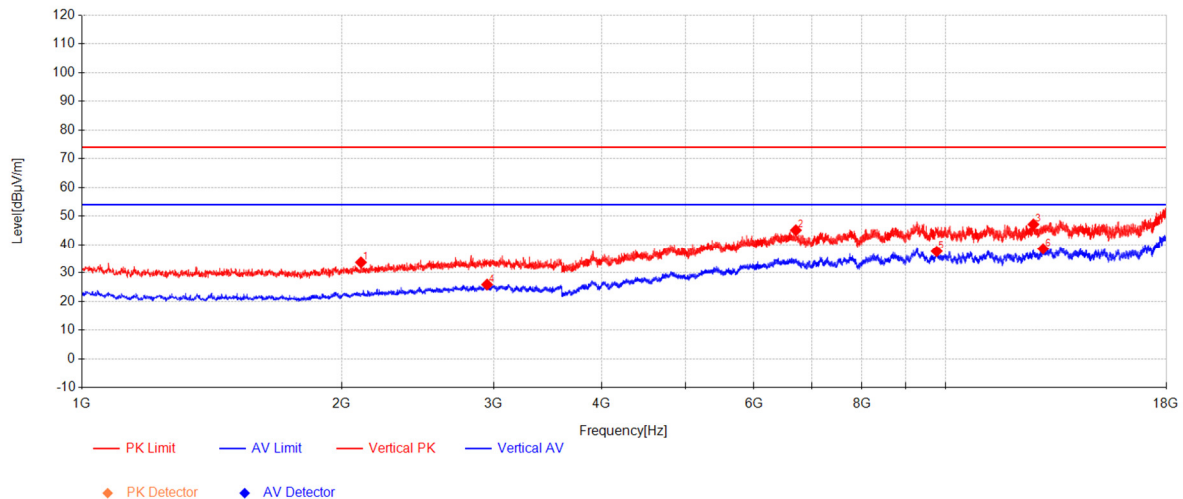
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Final Test Mode:

Mode e

Polarization:

Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2105.85	54.31	27.11	33.55	-47.87	74.00	40.45	265	59	Vertical
2	6712	52.27	35.62	45.06	-42.83	74.00	28.94	241	134	Vertical
3	12641.6	43.12	39.24	47.10	-35.26	74.00	26.90	174	265	Vertical
4	2947.35	43.06	29.42	25.83	-46.65	54.00	28.17	142	265	Vertical
5	9767.75	36.60	38.52	37.50	-37.62	54.00	16.50	265	209	Vertical
6	12972.25	33.86	39.57	38.44	-34.99	54.00	15.56	293	171	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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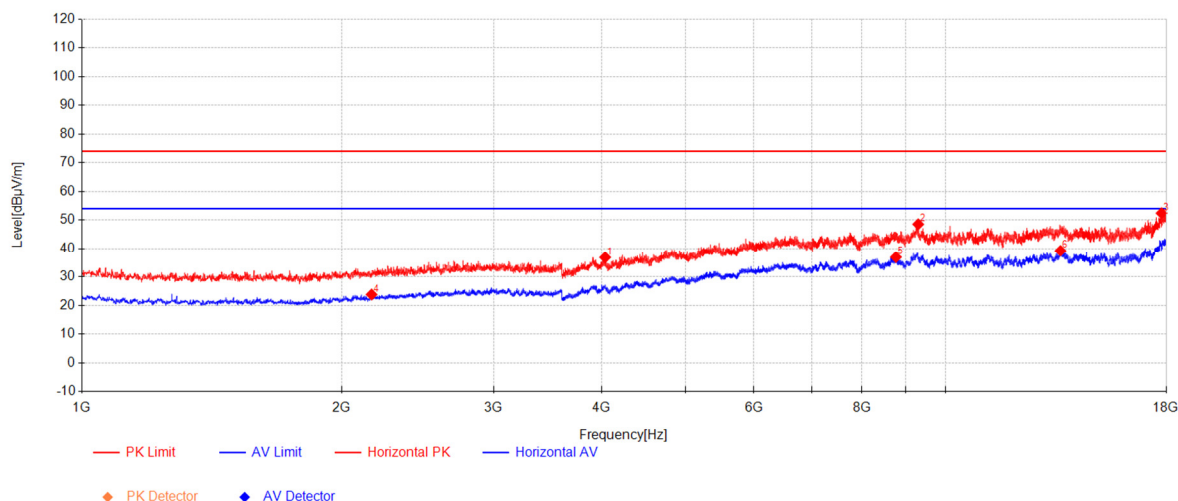
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Final Test Mode:	Mode f	Polarization:	Horizontal
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4037.05	51.59	30.66	36.78	-45.47	74.00	37.22	265	96	Horizontal
2	9299.4	48.24	38.57	48.52	-38.29	74.00	25.48	241	353	Horizontal
3	17788.35	41.85	41.75	52.39	-31.21	74.00	21.61	102	360	Horizontal
4	2166.2	44.32	27.23	23.77	-47.79	54.00	30.23	142	208	Horizontal
5	8763.05	37.84	38.34	36.87	-39.31	54.00	17.13	265	133	Horizontal
6	13587.65	33.54	39.95	39.17	-34.33	54.00	14.83	288	114	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[dBμV/m] – Level[dBμV/m]



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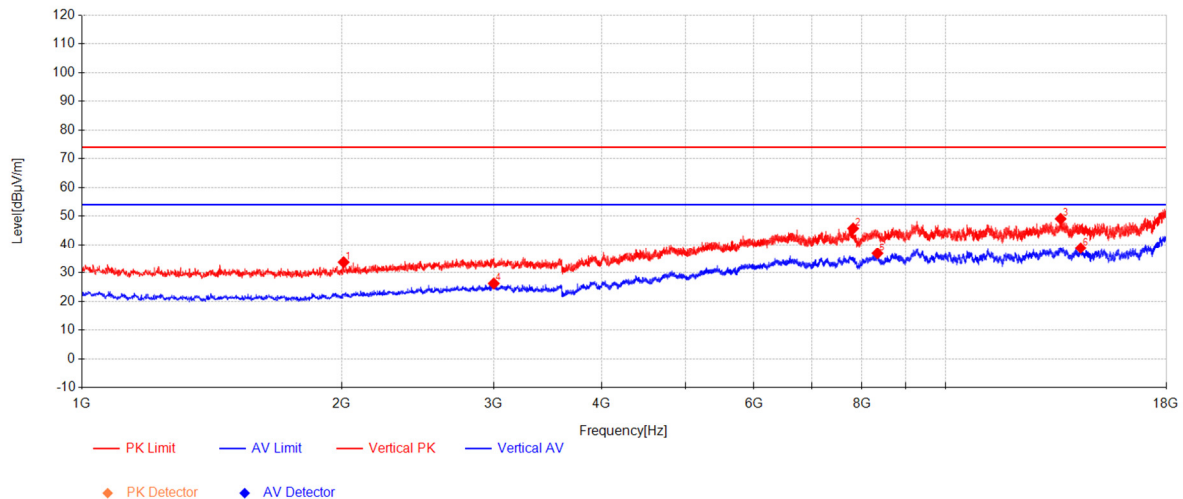
Page: 25 of 29

Final Test Mode:

Mode f

Polarization:

Vertical



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2010.65	54.76	26.92	33.62	-48.06	74.00	40.38	102	357	Vertical
2	7818.7	49.31	37.14	45.69	-40.76	74.00	28.31	142	226	Vertical
3	13594.45	43.45	39.96	49.05	-34.36	74.00	24.95	265	152	Vertical
4	3000.05	43.08	29.60	26.20	-46.48	54.00	27.80	362	0	Vertical
5	8342.3	39.29	37.88	36.74	-40.43	54.00	17.26	142	76	Vertical
6	14338.2	33.69	39.86	38.72	-34.83	54.00	15.28	266	39	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	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2022/02/20	2023/02/19
Measurement Software CE	Tonsend	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	Cal Due Date
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2022/02/20	2023/02/19
Measurement Software	Tonscend	JS32-RE V4.0.0.0	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	$\pm 4.8\text{dB}$ (Below 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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