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 XEWM2305000278RG01

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TEST REPORT

Application No.:	XEWM2305000278RG
Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
EUT Description:	Mobile Phone
Model No.:	V2249
Trade Mark:	vivo
FCC ID:	2AUCY-V2249
Standard(s):	FCC 47 CFR Part 15, Subpart B
Date of Receipt:	2023/05/30
Date of Test:	2023/06/04 to 2023/06/06
Date of Issue:	2023/06/09
Test Result:	Pass*

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

Authorized Signature:

Porer Tom

Peter Tan Regulatory Technical Manager



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	Revision Record				
Version	Version Chapter Date Modifier Remark				
01		2023/06/09		Original	

Prepared By	Leah Chen (Leah Chen) / Test Engineer	
Checked By	Andy Yao (Andy Yao) /Reviewer	



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Test Summary

Emission Part				
Item	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:	Mobile Phone			
Model No.:	V2249			
Trade Mark:	vivo	vivo		
Hardware Version:	MP_0.1			
Software Version:	PD2281CF_EX_A_13.0).3.19.W30		
IMEI:	860407069999312			
	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 13	777~787	746~756	
	LTE Band 18	815~824	860~869	
	(815 to 824 MHz)	015~024	000~009	
Frequency Bands:	LTE Band 18	824~830	869~875	
	(824 to 830 MHz)	000.045	075,000	
	LTE Band 19	830~845	875~890	
	LTE Band 26 (814 to 824 MHz)	814~824	859~869	
	LTE Band 26	824~849	869~894	
	(824 to 849 MHz)			
	LTE Band 38	2570~2620	2570~2620	
	LTE Band 41	2535~2655	2535~2655	
	LTE Band 66	1710~1780	2110~2200	
	Wi-Fi 2.4G	2412~2462	2412~2462	
	Bluetooth	2402~2480	2402~2480	
	Wi-Fi 5G	5150~5850	5150~5850	
	FM	/	88~108	



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GNSS(GPS/Galileo /Glonass /Beidou/ SBAS)	/	1559~1610
Remark:	by the engliserst CCC is not li	

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

Accessory:

Item No.	Mode No.	Manufacturer	Remark	
Adapter 1	V4440L0A1-US	Dongguan Aohai Technology	Somo dosign	
Adapter 2	V4440L0A1-EU	Co.,Ltd	Same design	
USB cable	BK-C-49-B	/	/	
Battery	B-Z5	Dongguan NVT Technology Co.,Ltd	/	
Remark: Adapter 1 was selected to test.				



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1.1 Description of Support Units

Description	Manufacturer	Model No.	Inventory No.
Router	NETGEAR	R6020	XAW03-47-01
Computer	Lenovo	L480	XAW03-48-01
Mouse	Lenovo	MO32BOA	XAW03-49-01

1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Ken Liu

1.3 Test Facility

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

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

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	RBW = 9kHz, VBW = 30kHz			
	Frequency Range (MHz)	Limit(dBµV)			
		Quasi-peak	average		
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*		
Limit:	0.5M-5MHz	56	46		
	5M-30MHz	60	50		
	*Decreases with the logarithm of the frequency				
	Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz				

2.1.1 E.U.T. Operation Operating Environment:

Operating Environment:			
Temperature:	22~25°C		
Humidity:	40~60%RH		
Atmospheric Pressure:	96~98.0 kPa		
	a: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+Camera(Front)+GSM 850 Idle		
	b: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+Camera(Rear)+ WCDMA		
	Band V Idle		
	c: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+MP3+LTE Band 5 Idle		
Pretest these modes	d: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 13 Idle		
to find the worst case:	e: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+FM+LTE Band 18 Idle		
	f: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 19 Idle		
	g: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 26 Idle		
	h: Transfer data between the PC and the EUT+USB Cable		
	i: Transfer data between the EUT and the PC+USB Cable		
	j: Transfer data between the PC and the SD+USB Cable		
	k: Transfer data between the SD and the PC+USB Cable		
The worst case for final test:	a: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+Camera(Front)+GSM 850 Idle		
ina lest.	h: Transfer data between the PC and the EUT+USB Cable		



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2.1.2 Test Setup Procedures

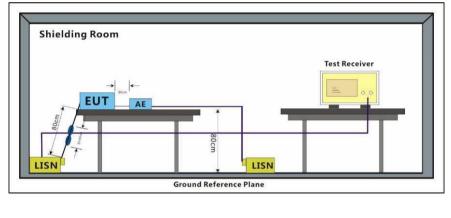
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

- 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.



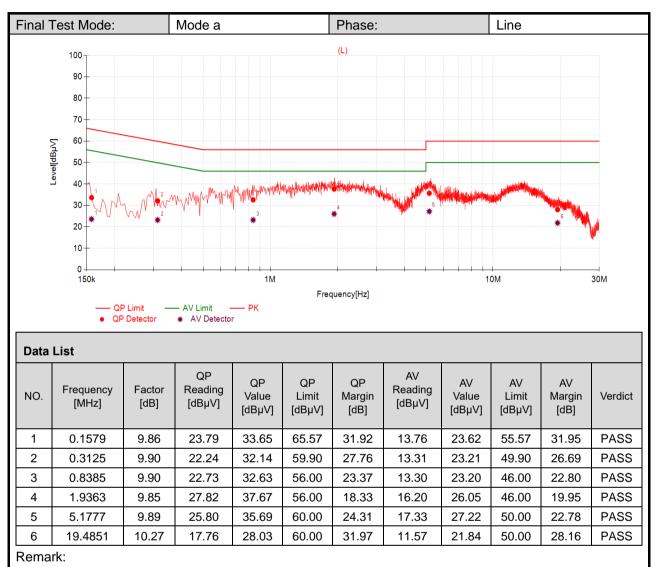
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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dBµV] – Value[dBµV]

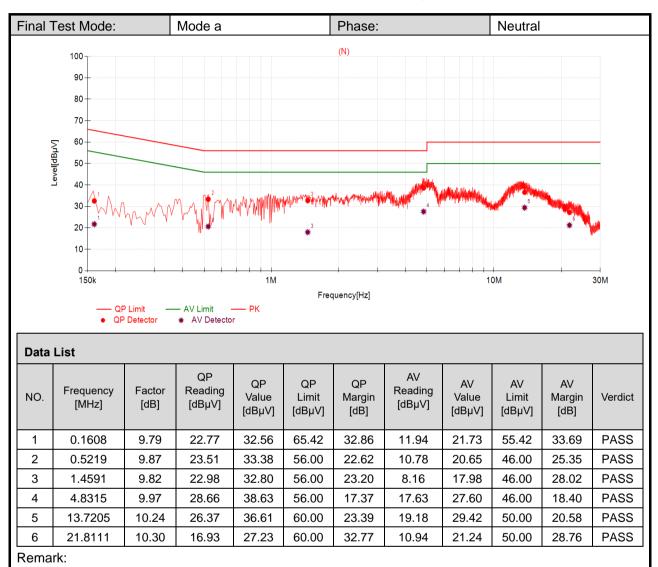


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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dB μ V] – Value[dB μ V]

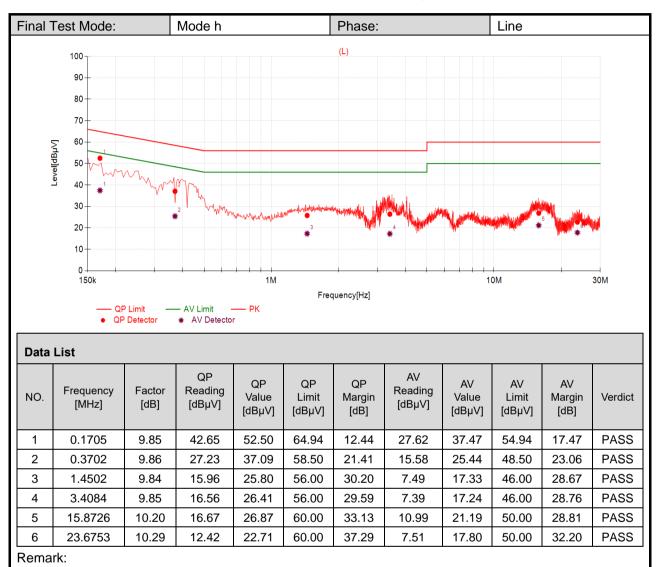


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3. Margin = Limit[dBµV] – Value[dBµV]

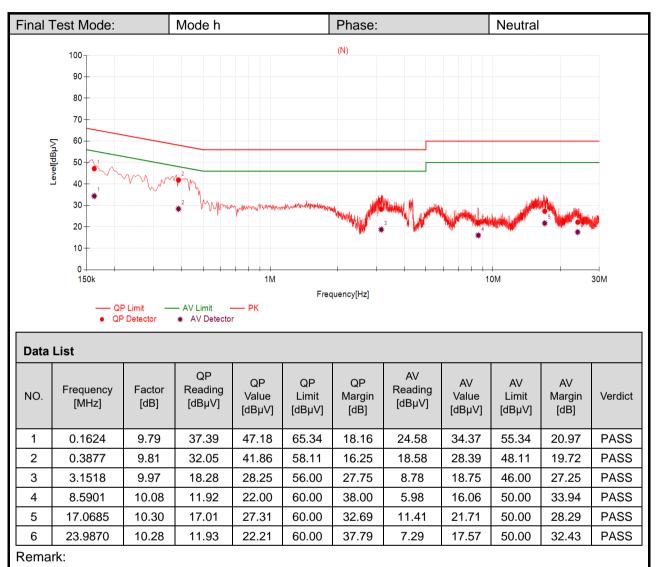


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3. Margin = Limit[dBµV] – Value[dBµV]



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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				
	Frequency Range (MHz) Limit(dBµV/m) Detector				
	30MHz -88MHz 40.0 Quasi-peak				
Limit:	88MHz-216MHz 43.5 Quasi-peak				
	216MHz-960MHz 46.0 Quasi-peak				
	960MHz-1000MHz 54.0 Quasi-peak				
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz				

2.2.1 E.U.T. Operation

Temperature:	22~25°C
Humidity:	40~60%RH
Atmospheric Pressure:	96~98.0 kPa
	a: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+Camera(Front)+GSM 850
	b: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+Camera(Rear)+ WCDMA
	Band V Idle
	c: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+MP3+LTE Band 5 Idle
	d: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 13 Idle
Pretest these modes to find the worst case:	e: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+FM+LTE Band 18 Idle
find the worst case.	f: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 19 Idle
	g: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 26 Idle
	h: Transfer data between the PC and the EUT+USB Cable
	i: Transfer data between the EUT and the PC+USB Cable
	j: Transfer data between the PC and the SD+USB Cable
	k: Transfer data between the SD and the PC+USB Cable
The worst case for final test:	d: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 13 Idle
1631.	h: Transfer data between the PC and the EUT+USB Cable



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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.

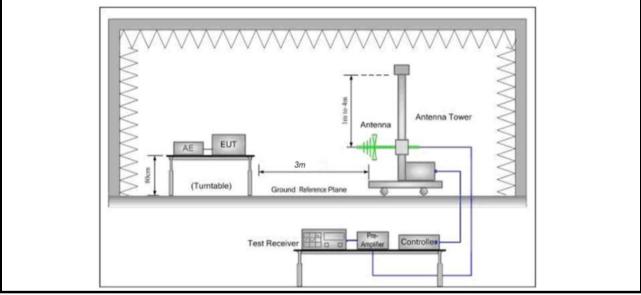
3. The table was rotated 360 degrees to determine the position of the highest radiation.

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.

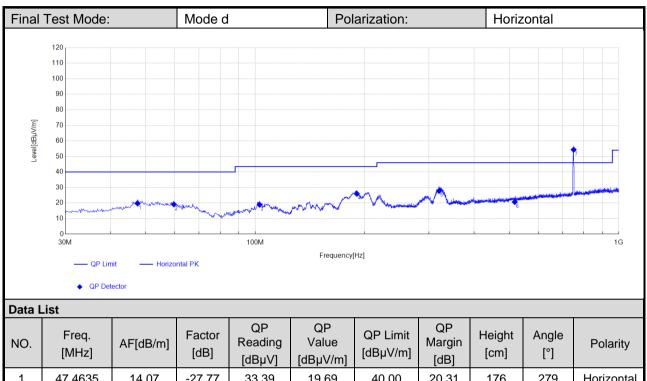
The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.



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					[abp t/m]					
1	47.4635	14.07	-27.77	33.39	19.69	40.00	20.31	176	279	Horizontal
2	59.6879	12.43	-27.96	34.67	19.14	40.00	20.86	191	172	Horizontal
3	102.7646	11.72	-27.12	34.3	18.90	43.50	24.60	227	106	Horizontal
4	190.2761	10.36	-26.69	42.26	25.93	43.50	17.57	327	273	Horizontal
5	320.088	13.50	-25.69	39.94	27.75	46.00	18.25	261	67	Horizontal
6	517.2314	17.29	-24.86	28.26	20.69	46.00	25.31	106	175	Horizontal
7*	751.0482	20.18	-24.06	58.24	54.36	-	-	152	102	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 30M-1G: is system simulator signal which can be ignored.

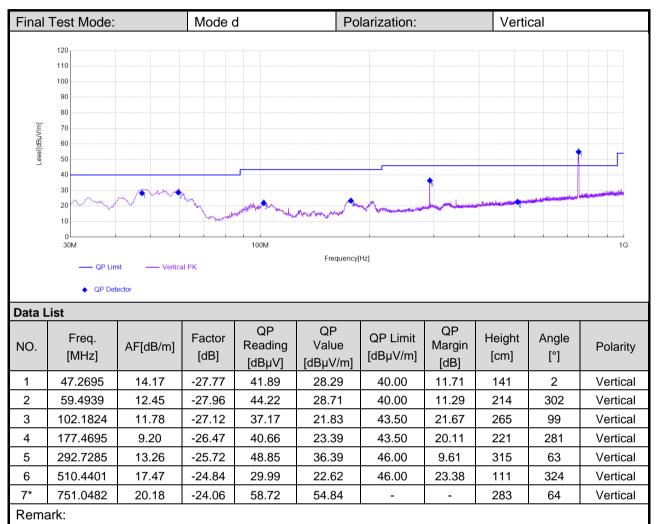


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1. The Quasi-Peak measurements were performed on the EUT.

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 30M-1G: is system simulator signal which can be ignored.

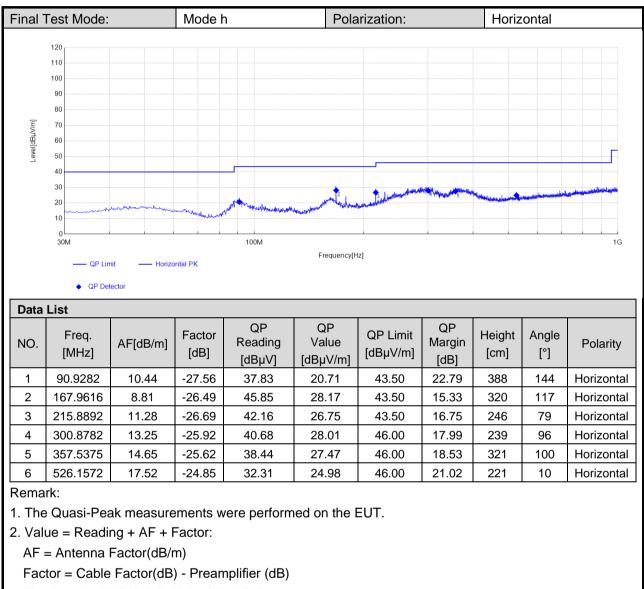


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Margin = Limit[dBµV/m] –Value[dBµV/m]

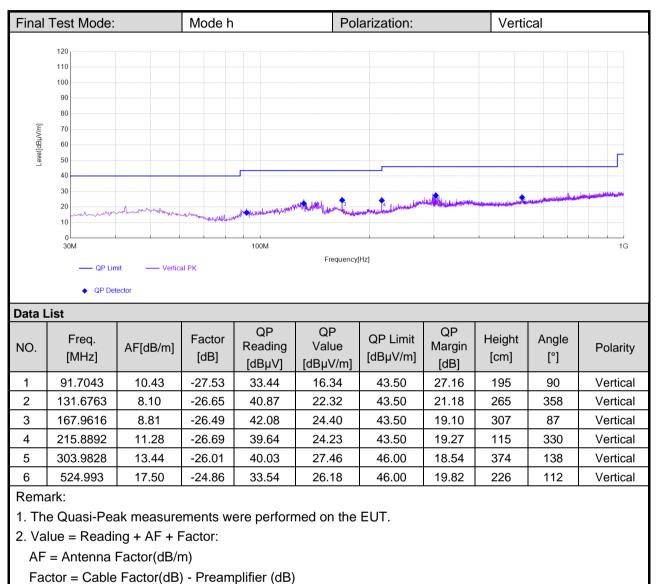


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Margin = Limit[dBµV/m] –Value[dBµV/m]



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2.3 Radiated Emissions (above 1GHz)

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

2.3.1 E.U.T. Operation

Temperature:	22~25°C
Humidity:	40~60%RH
Atmospheric Pressure:	96~98.0 kPa
	a: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+Camera(Front)+GSM 850
	b: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+Camera(Rear)+ WCDMA
	Band V Idle
	c: adapter+USB Cable+FM+BT+5GWLAN+GNSS RX+MP3+LTE Band 5 Idle
	d: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 13 Idle
Pretest these modes to	e: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+FM+LTE Band 18 Idle
find the worst case:	f: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 19 Idle
	g: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 26 Idle
	h: Transfer data between the PC and the EUT+USB Cable
	i: Transfer data between the EUT and the PC+USB Cable
	j: Transfer data between the PC and the SD+USB Cable
	k: Transfer data between the SD and the PC+USB Cable
The worst case for final test:	d: adapter+USB Cable+FM+BT+2.4GWLAN+GNSS RX+MP4+LTE Band 13 Idle
1051.	h: Transfer data between the PC and the EUT+USB Cable



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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

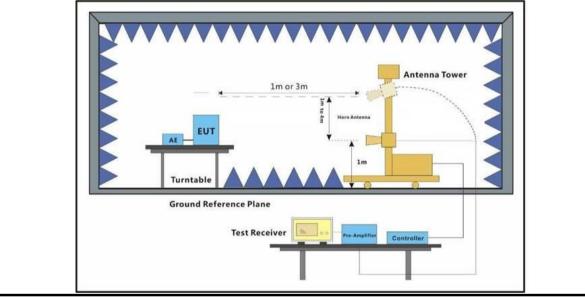
(Distance from antenna to EUT is 1m for measurements >18GHz).

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*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.

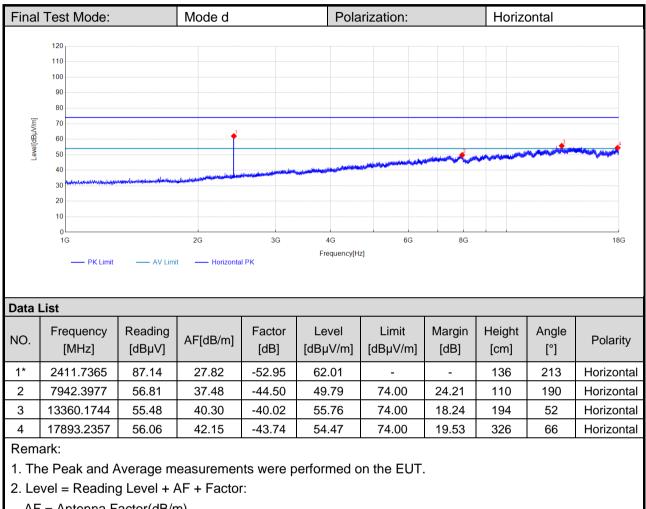
The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed. Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing,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



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AF = Antenna Factor(dB/m)

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

Margin = Limit[dBµV/m] – Level[dBµV/m]

Note*: #1:1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.

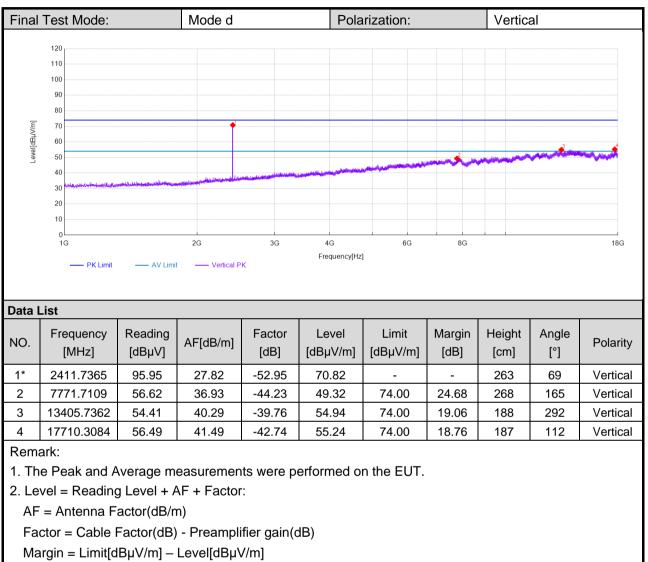


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Note*: #1:1G-18G is RF signal which come from Wi-Fi access point used to connect the EUT, and which can be ignored.



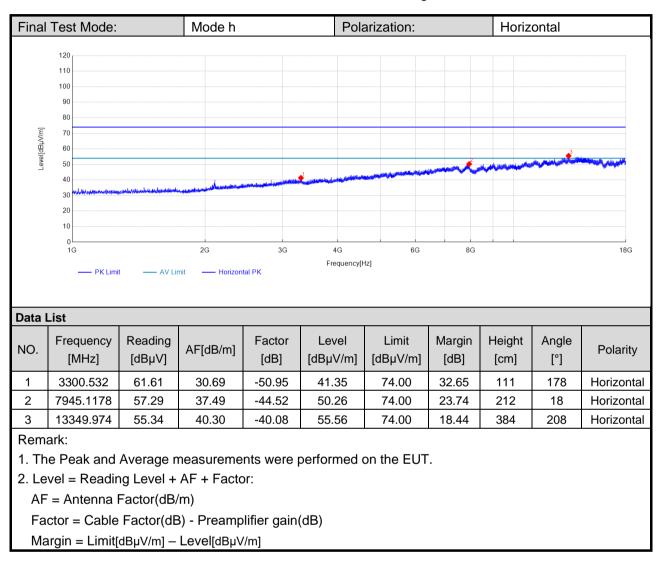
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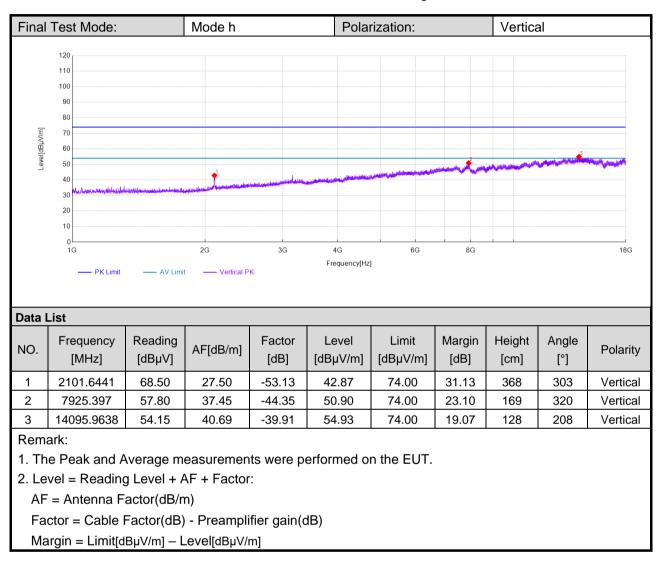


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3 Equipment List

CE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A	
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR	
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29	



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RE Test System						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08	
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15	
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14	
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07	
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27	
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27	
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22	
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR	
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR	
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR	
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR	
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14	
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13	
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13	
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13	
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17	
Radio communication analyzer	ROHDE&SCH WARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15	
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR	



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4 Measurement Uncertainty

No.	Item	Measurement Uncertainty			
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)			
		± 4.9dB (30MHz to 1GHz)			
	Dedicted Emission	± 4.9dB (1GHz to 6GHz)			
2	2 Radiated Emission	± 4.7dB (6GHz to 18GHz)			
		± 5.26dB (Above 18GHz)			
Descentr					

Remark:

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

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

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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5 Photographs

5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

---End of Report---



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