

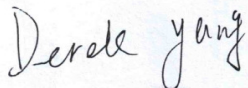
## **TEST REPORT**

**Application No:** ZR/2020/90032  
**Applicant:** Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd  
**Address of Applicant:** Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and Baoshen Road, North High-Tech Industrial Park, Nanshan District, Shenzhen  
**Manufacturer:** Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd  
**Address of Manufacturer:** Floor 21, Block A, Coolpad Building, Intersection of Keyuan Avenue and Baoshen Road, North High-Tech Industrial Park, Nanshan District, Shenzhen  
**EUT Description:** Mobile Hotspot  
**Model No.:** CP337AS  
**Trade Mark:** coolpad  
**FCC ID:** R38YLCP337AS  
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2020/10/8  
**Date of Test:** 2020/10/21 to 2020/12/31  
**Date of Issue:** 2021/1/5

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Derek Yang

Wireless Laboratory Manager

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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2021/1/5		Original

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## Test Summary

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

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

Checked By

*David Chen*

David Chen  
Reviewer

Test By

*Daniel Wang*

Daniel Wang  
Project Engineer

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## 1 General Information

Product Name:	Mobile Hotspot		
Model No.(EUT):	CP337AS		
Trade Mark:	coolpad		
Hardware Version:	P3		
Software Version:	3.18.054.P3.201216.CP337AS		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	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 5	824~849	869~894
	LTE Band 12	699~716	729~746
	LTE Band 13	777~787	746~756
	LTE Band 14	788~798	746~756
	LTE Band 25	1850~1915	1930~1995
	LTE Band 26	814~849	859~894
	LTE Band 41	2496~2690	2496~2690
	LTE Band 66	1710~1780	2110~2200
	LTE Band 71	663~698	617~652
	LTE Band CA_41C	2496-2690	2496-2690
	Wi-Fi 2.4G	2412~2472	2412~2472
Wi-Fi 5G	5150~5850	5150~5850	

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**Accessory:**

Battery			
Battery1	Jiade Energy	CPLD-440	3.87V; 3920mAh
Battery2	Ganfeng	CPLD-440	3.87V; 3920mAh
Adapter			
Adapter1 (US)	SHENZHEN RUIDE ELECTRONIC INDUSTRIAL CO.,LTD	Q3W18-1U-A	Input:100-240V~50/60Hz,0.5A MAX Output:5V/3A,9V/2A,12V/1.5A
Adapter2 (US)	SHENZHEN KOSUN INDUSTRIAL CO., LTD.	619043	Input:100-240V~50/60Hz,0.5A MAX Output:5V/3A,9V/2A,12V/1.5A
USB cable			
USB cable1	Leagtech Electric Co.,LTD	LS-KP002	/
USB cable2	Shenzhen Saibao Communication industrial Co.,Ltd	SYL-A147A	

**EUT1: Main Supply EUT**

Part Name	Model Name	supplier	Remark
Battery	CPLD-440	Jiade	
Memory	FS702B2R1DH2A2KDE	FORESEE	
PCB	CP337AS MAINBOARD P3-ZH	Zhihao	

**EUT2: Secondary Supply EUT**

Part Name	Model Name	supplier	Remark
Battery	CPLD-440	Ganfeng	
Memory	NM1282KSLAXAL-3B	Nanya	
PCB	CP337AS MAINBOARD P3_SUNTAK	Suntak	

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### 1.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

### 1.2 Test Location

All tests were performed at:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	Single floor D, building 1, Kanghong orange square science and technology park, No.137 keyuan 3rd road, fengdong new town, Xi 'an city, Shaanxi China
Post code:	710000

No tests were sub-contracted.

### 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.

Test Site No.:	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

### 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
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

#### 2.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT1 and the PC+ Cable1
- b: Transfer data between the EUT1 and the PC+ Cable2
- c: GSM 850 Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter1
- d: WCDMA Band V Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter2
- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+ adapter(worst)
- f: LTE Band 12 Idle+ EUT1 +5G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- g: LTE Band 13 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- h: LTE Band 14 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- i: LTE Band 26 Idle + EUT1 +5G WLAN +battery1 +usb cable(worst)+ adapter(worst)
- j: LTE Band 5 Idle + EUT2 +2.4G WLAN+ battery2 +usb cable(worst)+ adapter(worst)

The worst case for final test:

- e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+ adapter(worst)

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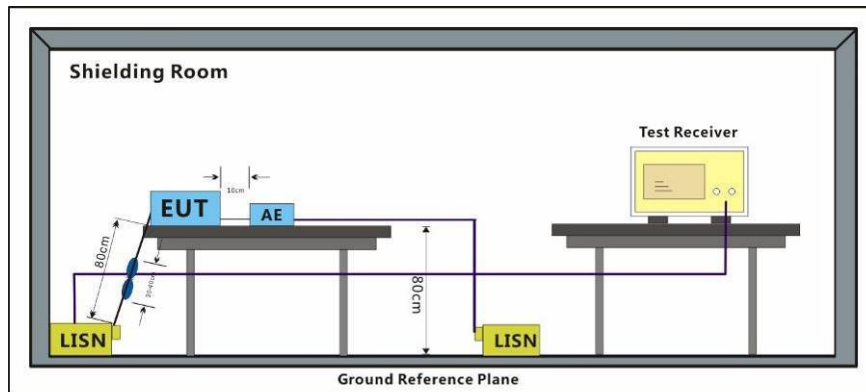
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### 2.1.2 Test Setup Diagram



### 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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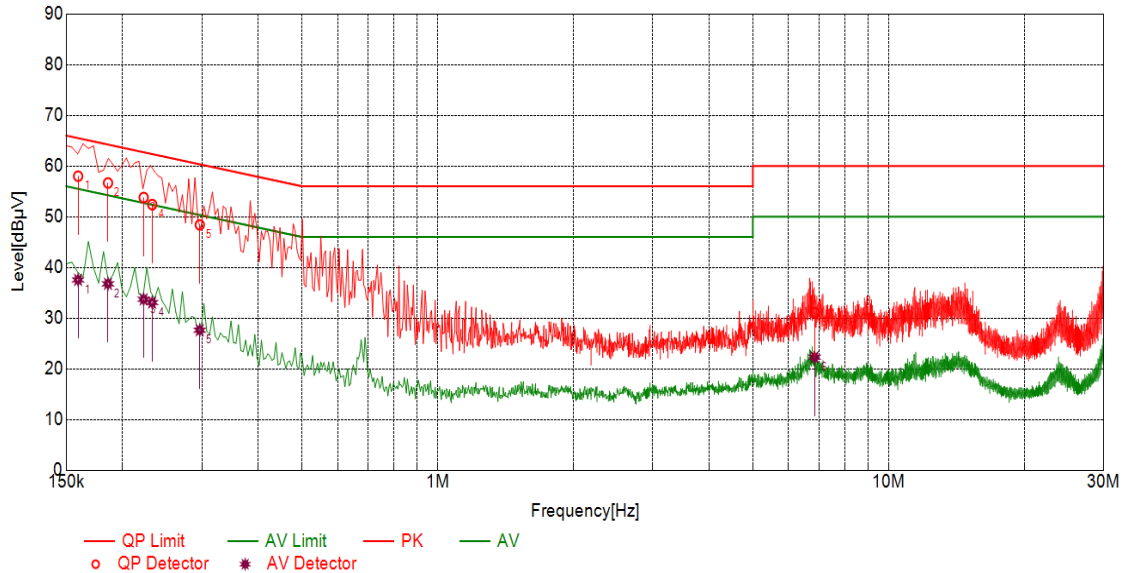
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Mode:d; Line:Live Line



Test Graph

### Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1594	10.10	57.99	65.49	7.50	37.54	55.49	17.95	L
2	0.1857	10.10	56.66	64.22	7.56	36.76	54.22	17.46	L
3	0.2228	10.10	53.79	62.71	8.92	33.71	52.71	19.00	L
4	0.2327	10.10	52.40	62.35	9.95	33.07	52.35	19.28	L
5	0.2967	10.10	48.39	60.33	11.94	27.62	50.33	22.71	L
6	6.8521	10.10	31.08	60.00	28.92	22.28	50.00	27.72	L

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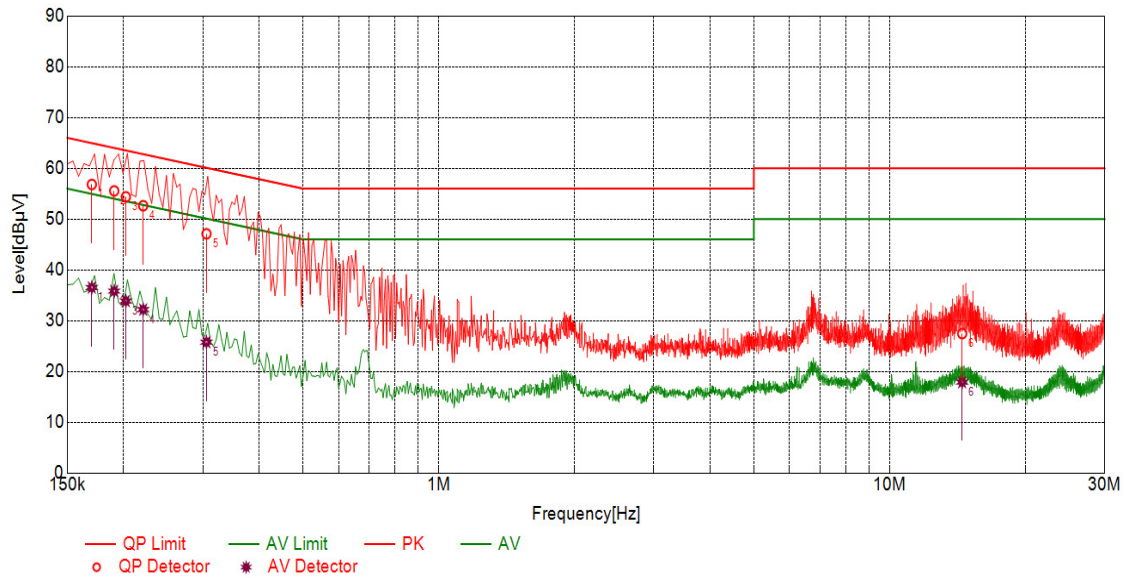
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邮编 710086 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Mode:d; Line:Neutral Line



Test Graph

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Type
1	0.1701	10.10	56.81	64.96	8.15	36.52	54.96	18.44	N
2	0.1907	10.10	55.55	64.01	8.46	35.82	54.01	18.19	N
3	0.2024	10.10	54.37	63.51	9.14	33.87	53.51	19.64	N
4	0.2211	10.10	52.63	62.78	10.15	32.18	52.78	20.60	N
5	0.3055	10.10	47.10	60.09	12.99	25.76	50.09	24.33	N
6	14.4837	10.11	27.46	60.00	32.54	17.89	50.00	32.11	N

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

### 2.1.4 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:	a: Transfer data between the EUT1 and the PC+ Cable1
	b: Transfer data between the EUT1 and the PC+ Cable2
	c: GSM 850 Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter1
	d: WCDMA Band V Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter2
	e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+ adapter(worst)
	f: LTE Band 12 Idle+ EUT1 +5G WLAN +battery1 +usb cable(worst)+ adapter(worst)
	g: LTE Band 13 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+ adapter(worst)
	h: LTE Band 14 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+ adapter(worst)
	i: LTE Band 26 Idle + EUT1 +5G WLAN +battery1 +usb cable(worst)+ adapter(worst)
	j: LTE Band 5 Idle + EUT2 +2.4G WLAN+ battery2 +usb cable(worst)+ adapter(worst)
The worst case for final test:	e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+ adapter(worst)

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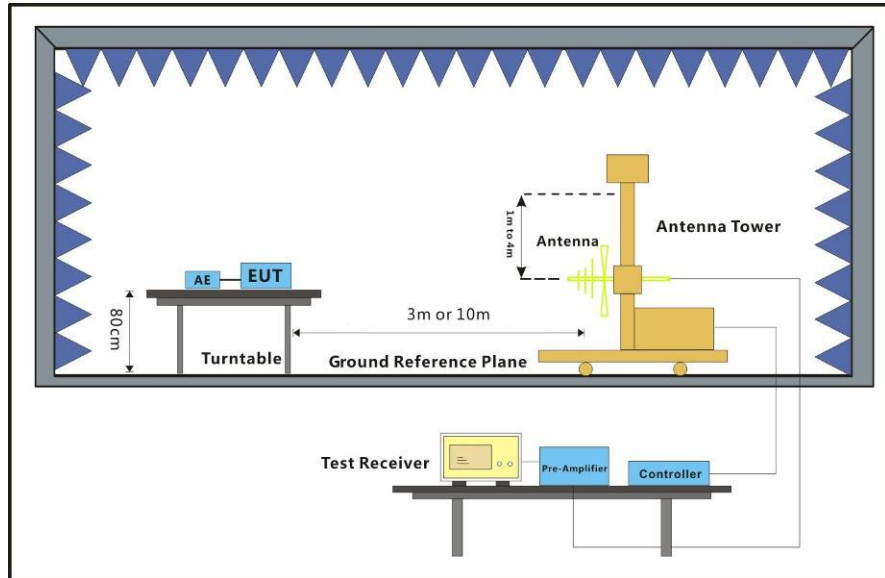
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**2.1.5 Test Setup Diagram**



**2.1.6 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.

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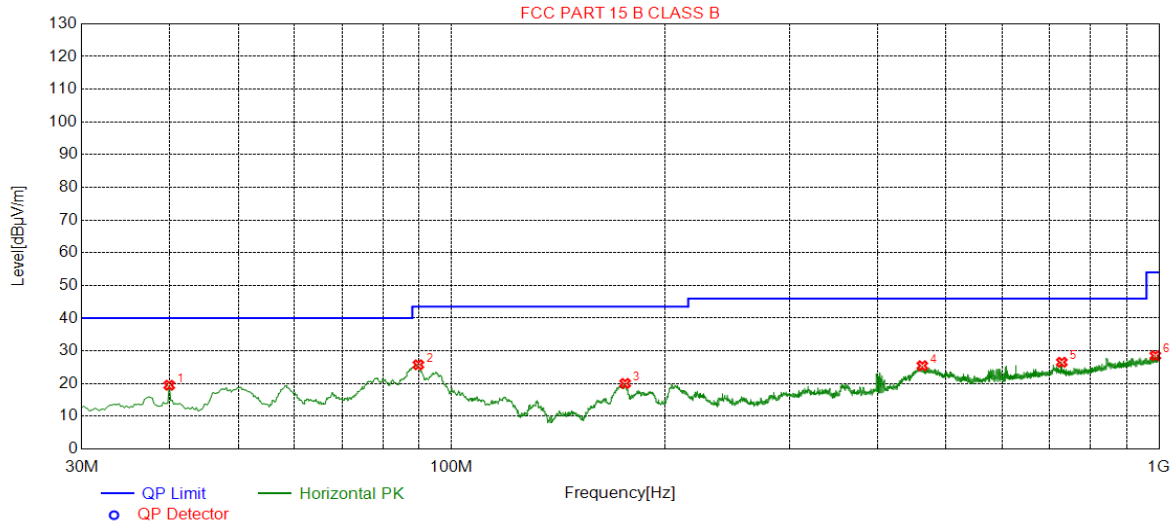
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Mode:d; Polarization:Horizontal



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.8960	19.51	-28.37	40.00	20.49	200	219	Horizontal
2	89.7640	25.76	-33.77	43.50	17.74	200	335	Horizontal
3	175.917	20.06	-33.60	43.50	23.44	100	26	Horizontal
4	462.900	25.47	-24.16	46.00	20.53	100	128	Horizontal
5	728.733	26.53	-18.83	46.00	19.47	200	239	Horizontal
6	988.163	28.54	-14.95	54.00	25.46	200	120	Horizontal

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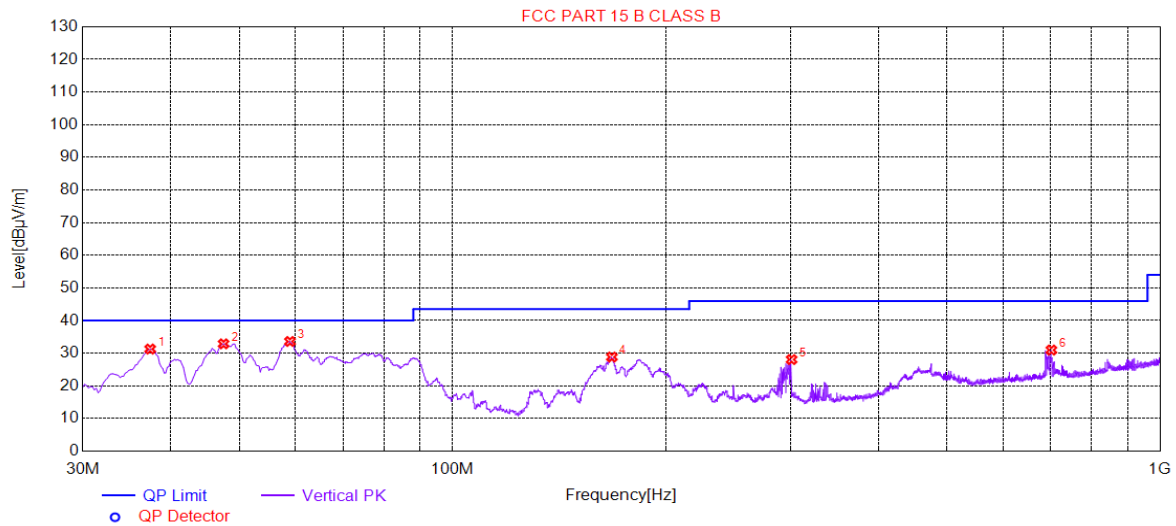
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Mode:d; Polarization:Vertical



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	31.29	-29.19	40.00	8.71	100	14	Vertical
2	47.4635	32.89	-30.40	40.00	7.11	100	14	Vertical
3	58.9118	33.61	-31.70	40.00	6.39	100	339	Vertical
4	167.961	28.84	-34.16	43.50	14.66	100	325	Vertical
5	301.460	28.07	-28.22	46.00	17.93	100	48	Vertical
6	702.150	30.98	-19.46	46.00	15.02	200	245	Vertical

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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:	
Above 1GHz	74(dB $\mu$ V/m) peak, 54(dB $\mu$ V/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

### 2.1.7 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:	a: Transfer data between the EUT1 and the PC+ Cable1
	b: Transfer data between the EUT1 and the PC+ Cable2
	c: GSM 850 Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter1
	d: WCDMA Band V Idle+ EUT1 +2.4G WLAN +battery1+usb cable(worst)+adapter2
	e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+adapter(worst)
	f: LTE Band 12 Idle+ EUT1 +5G WLAN +battery1 +usb cable(worst)+adapter(worst)
	g: LTE Band 13 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+adapter(worst)
	h: LTE Band 14 Idle + EUT1+2.4G WLAN +battery1 +usb cable(worst)+adapter(worst)
	i: LTE Band 26 Idle + EUT1 +5G WLAN +battery1 +usb cable(worst)+adapter(worst)
	j: LTE Band 5 Idle + EUT2 +2.4G WLAN+ battery2 +usb cable(worst)+adapter(worst)
The worst case for final test:	e: LTE Band 5 Idle + EUT1 +2.4G WLAN+ battery1 +usb cable(worst)+adapter(worst)

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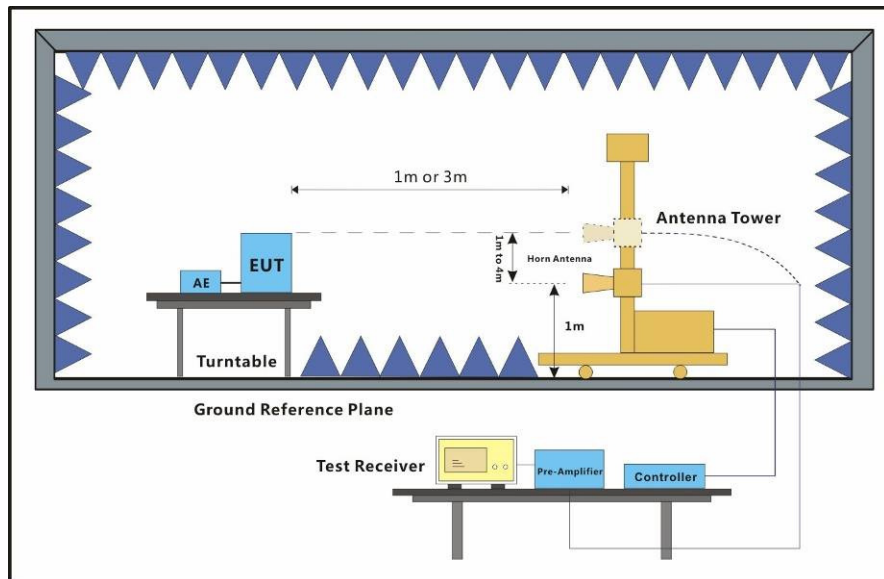
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### 2.1.8 Test Setup Diagram



### 2.1.9 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.

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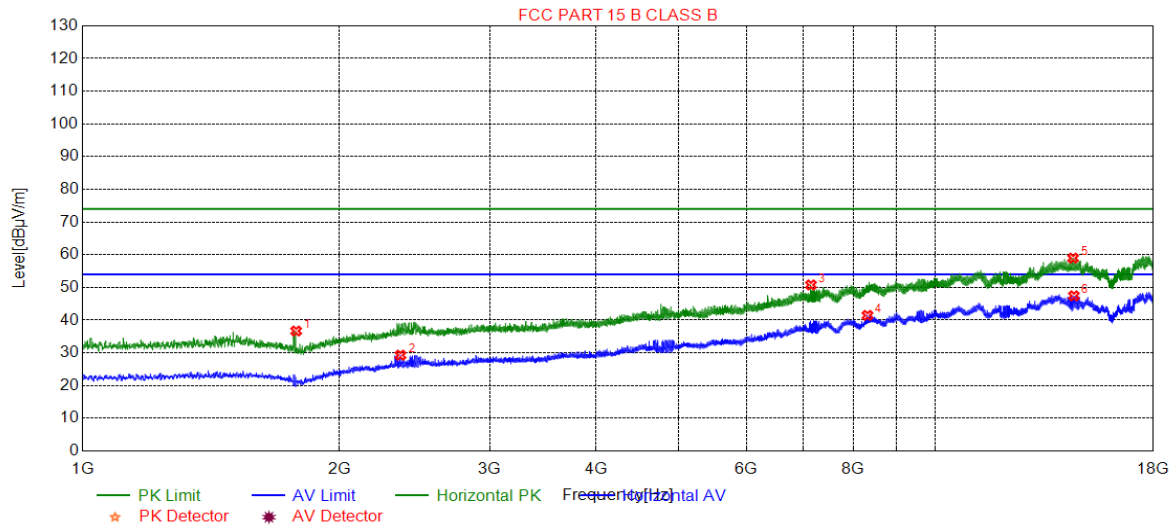
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Mode:d; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1779.48	36.70	-32.10	74.00	37.30	100	230	Horizontal
2	2358.36	29.31	-26.64	54.00	24.69	100	40	Horizontal
3	7141.55	50.78	-10.58	74.00	23.22	100	3	Horizontal
4	8318.86	41.47	-7.75	54.00	12.53	100	3	Horizontal
5	14491.0	58.98	1.59	74.00	15.02	100	230	Horizontal
6	14522.4	47.45	1.56	54.00	6.55	200	243	Horizontal

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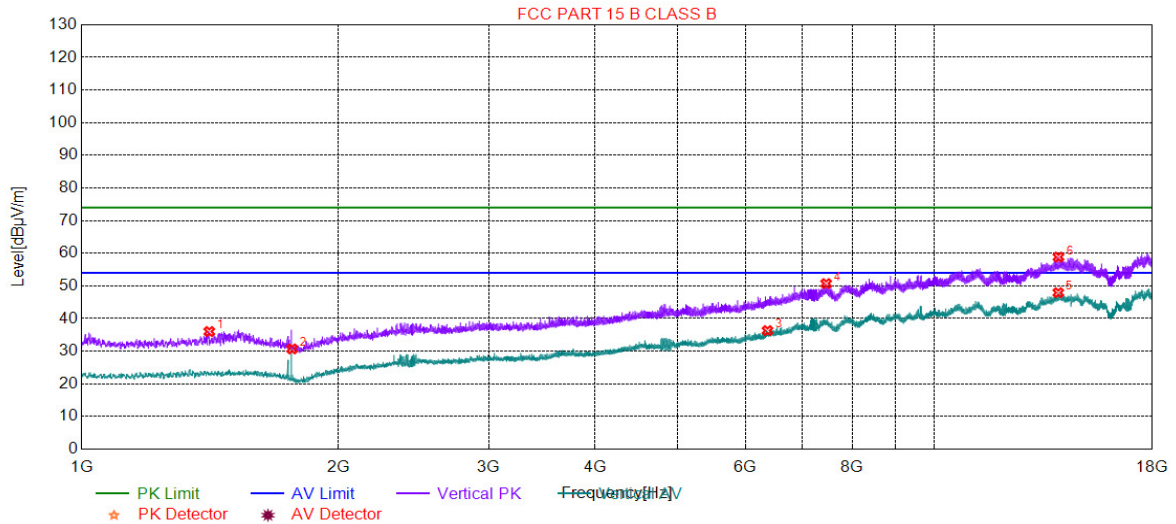
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邮编 710086 sgs.china@sgs.com

Mode:d; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.42	36.04	-30.31	74.00	37.96	200	130	Vertical
2	1765.03	30.71	-31.89	54.00	23.29	100	154	Vertical
3	6368.01	36.32	-13.72	54.00	17.68	200	356	Vertical
4	7460.32	50.73	-9.83	74.00	23.27	200	16	Vertical
5	13959.7	47.94	2.21	54.00	6.06	100	4	Vertical
6	13966.5	58.85	2.22	74.00	15.15	100	307	Vertical

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### 3 Equipment List

Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Semi-Anechoic Chamber	Brilliant-emc	966	XAW03-35-01	NCR	NCR
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020/4/2	2021/4/2
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020/9/7	2021/9/6
Receiving antenna	Rosenberger	VULB 9163	XAW01-09-01	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	BBHA 9120D	XAW01-09-02	2019/10/13	2021/10/12
Receiving antenna	Rosenberger	BBHA 9170	XAW01-09-03	2019/10/13	2021/10/12
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	TAP00903040	XAW01-41-01	2020/11/18	2021/11/18
				2019/11/18	2020/11/18
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020/11/18	2021/11/18
				2019/11/18	2020/11/18
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020/12/3	2021/12/3
				2019/12/3	2020/12/3
Amplifier	Brilliant-emc	YX28980930	XAW01-41-06	2020/11/18	2021/11/18
				2019/11/18	2020/11/18
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-19-02	2020/9/16	2021/9/15

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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.4dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz-1GHz)
		± 5.2dB (1GHz-6GHz)
		± 5.5dB (6GHz-18GHz)
		± 5.02dB (18GHz-40GHz)

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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for ZR/2020/90032.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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