

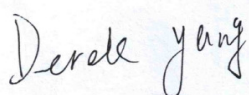
TEST REPORT

Application No: ZR/2020/B0016
Applicant: SMT TELECOMM HK LIMITED
Address of Applicant: UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer: SMT TELECOMM HK LIMITED
Address of Manufacturer: UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
EUT Description: tablet
Model No.: Inspire 4.0
Trade Mark: GTL
FCC ID: 2AIMEI40
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/11/18
Date of Test: 2020/11/18 to 2020/12/7
Date of Issue: 2021/3/8

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

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

Authorized Signature:



Derek Yang

Wireless Laboratory Manager

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**SGS-CSTC STANDARDS TECHNICAL SERVICES
(XI 'AN) CO., LTD.**

Report No.: ZR/2020/B001607
Page: 2 of 22

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021/3/8		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:	tablet		
Model No.(EUT):	Inspire 4.0		
Trade Mark:	GTL		
Hardware Version:	P3		
Software Version:	Inspire 4.0_09162020		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	LTE Band 48	3550~3700	3550~3700
	Wi-Fi 2.4G	2412~2472	2412~2472
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	GNSS	1559~1610	
	NFC	13.56	

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Accessory:

Battery			
Battery1	GSP27103107HV,Z HUHAI GREAT POWER ENERGY CO., LTD		3.87V; 4890mAh/18.92Wh/1cell
USB Cable			
USB Cable1	GUSBC2-1M- HF,LD Information(HK)CO. ,LTD		1.0m shielded cable without core
Adapter			
Adapter1 (US)	SA107A- 050200,ShenZhen AQUILSTAR TECHNOLOGY CO.,LTD	ASSA107A-050200	I/P:100-240V~50Hz O/P:5VDC 2.0A

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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

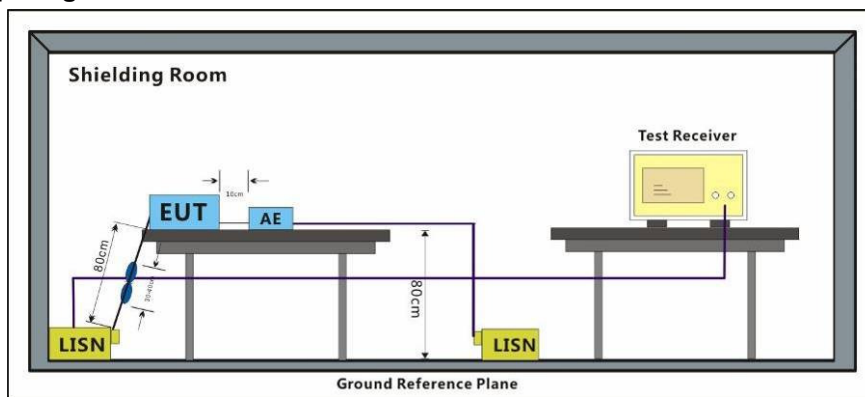
Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: LTE Band 48 Idle+BT+WLAN +NFC+GNSS Rx+camera (Front)+earphone(worst)+battery1+ Cable(worst)+adapter1

The worst case for final test:

- b: LTE Band 48 Idle+BT+WLAN +NFC+GNSS Rx+camera (Front)+earphone(worst)+battery1+ Cable(worst)+adapter1

2.1.2 Test Setup Diagram



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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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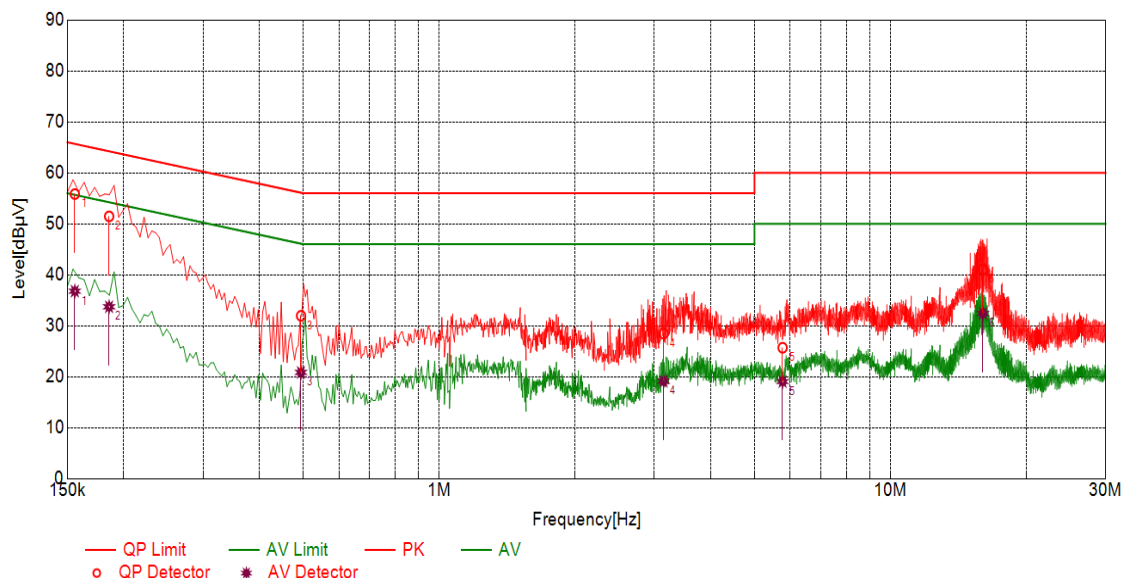
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Mode:b; Line:Live Line



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	0.1559	10.10	55.84	65.68	9.84	36.78	55.68	18.90	L
2	0.1857	10.10	51.46	64.22	12.76	33.72	54.22	20.50	L
3	0.4943	10.10	31.96	56.10	24.14	20.84	46.10	25.26	L
4	3.1446	10.10	28.47	56.00	27.53	19.12	46.00	26.88	L
5	5.7703	10.10	25.69	60.00	34.31	19.04	50.00	30.96	L
6	16.0382	10.11	41.07	60.00	18.93	32.41	50.00	17.59	L

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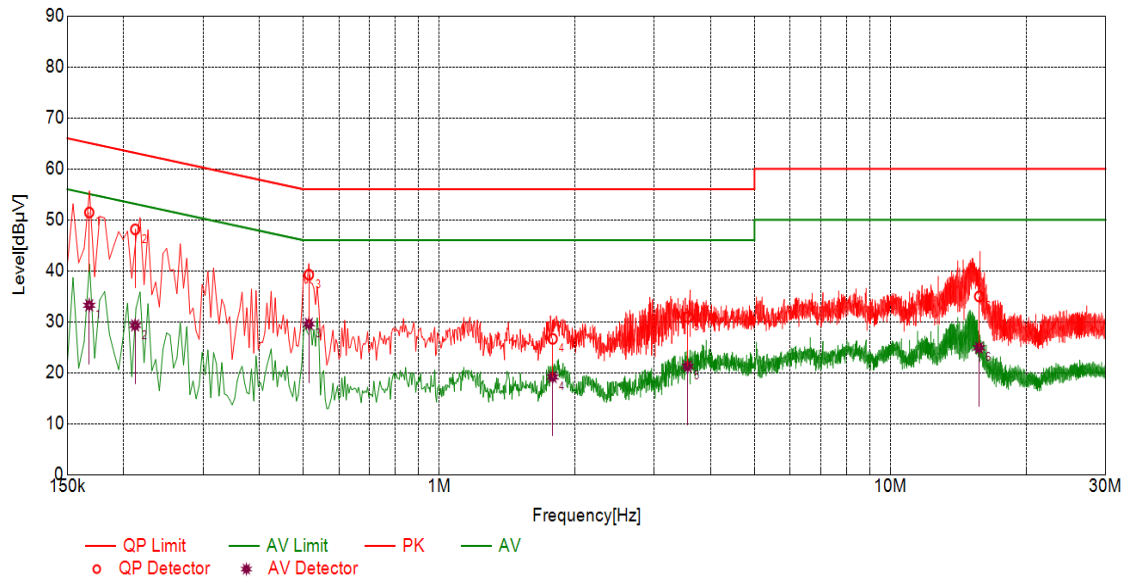
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Modeb;; Line:Neutral Line



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	0.1678	10.10	51.44	65.07	13.63	33.23	55.07	21.84	N
2	0.2121	10.10	48.13	63.12	14.99	29.28	53.12	23.84	N
3	0.5146	10.10	39.22	56.00	16.78	29.58	46.00	16.42	N
4	1.7852	10.10	26.64	56.00	29.36	19.16	46.00	26.84	N
5	3.5554	10.10	30.89	56.00	25.11	21.24	46.00	24.76	N
6	15.7264	10.11	34.97	60.00	25.03	24.89	50.00	25.11	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

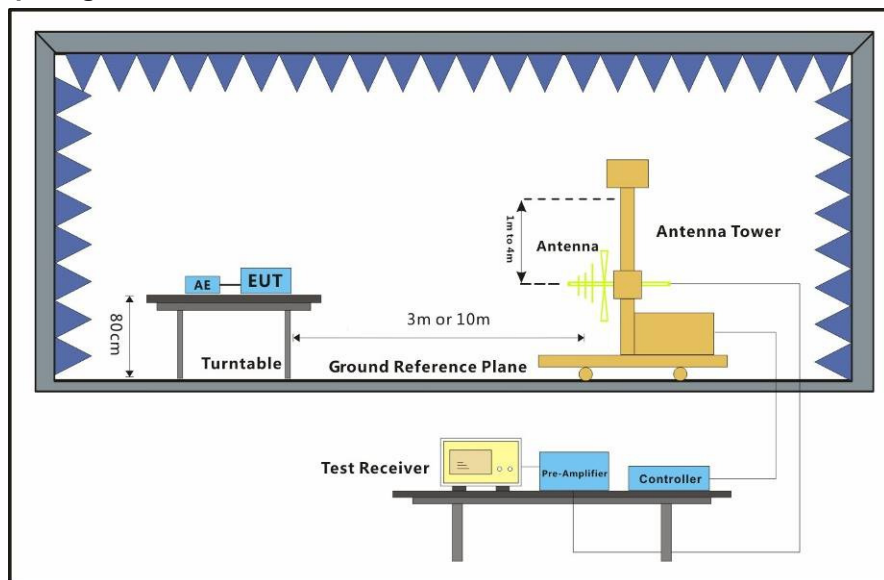
Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable1
- b: LTE Band 48 Idle+BT+WLAN +NFC+GNSS Rx+camera (Front)+earphone(worst)+battery1+ Cable(worst)+adapter1

The worst case for final test:

- a: Transfer data between the EUT and the PC+USB cable1

2.1.5 Test Setup Diagram



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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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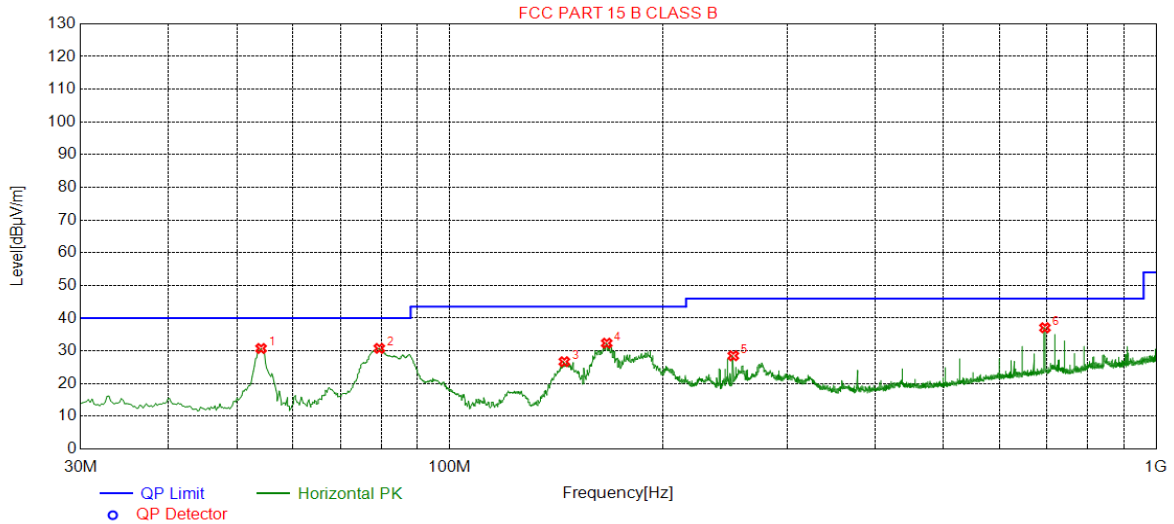
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Mode:a; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.0608	30.75	-30.98	40.00	9.25	200	204	Horizontal
2	79.4799	30.77	-36.06	40.00	9.23	200	252	Horizontal
3	145.259	26.71	-35.30	43.50	16.79	200	229	Horizontal
4	166.797	32.36	-34.23	43.50	11.14	200	227	Horizontal
5	251.980	28.51	-29.60	46.00	17.49	100	80	Horizontal
6	695.941	37.08	-19.55	46.00	8.92	100	14	Horizontal

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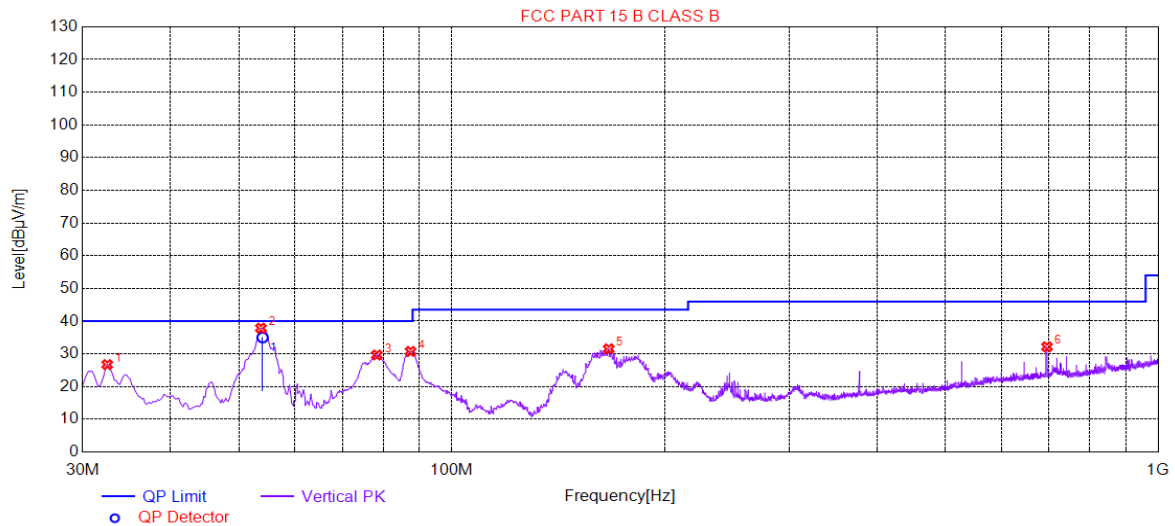
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Mode:a; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.5225	26.74	-30.02	40.00	13.26	100	333	Vertical
2	53.6727	37.88	-30.92	40.00	2.12	100	284	Vertical
3	78.3157	29.67	-35.85	40.00	10.33	100	226	Vertical
4	87.4355	30.76	-34.34	40.00	9.24	100	86	Vertical
5	166.797	31.56	-34.23	43.50	11.94	100	14	Vertical
6	695.941	32.18	-19.55	46.00	13.82	200	0	Vertical

Final Data List

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	53.9617	-30.96	35.00	40.00	5.00	104.9	316.8	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 μ V/m) peak, 54(dB μ V/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 18000MHz

2.1.7 E.U.T. Operation

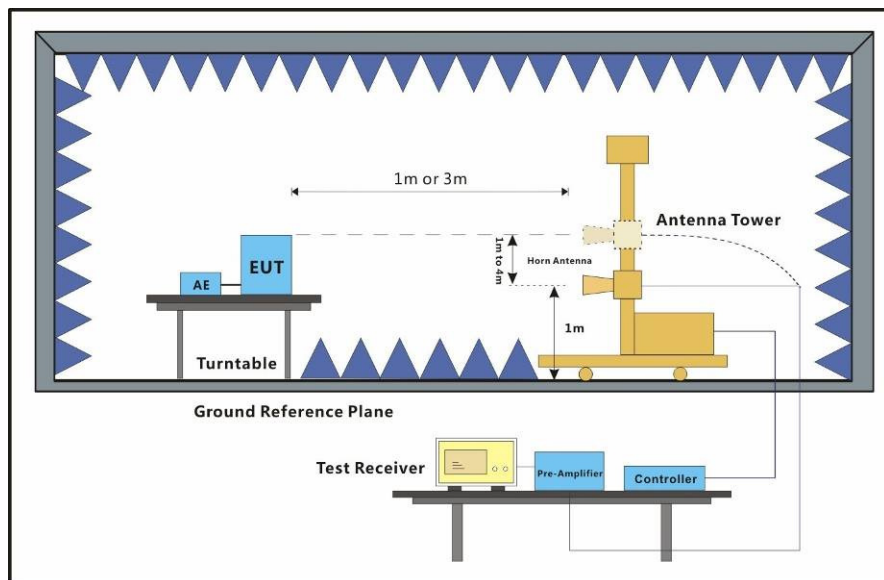
Operating Environment:

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 EUT and the PC+USB cable1
 b: LTE Band 48 Idle+BT+WLAN +NFC+GNSS Rx+camera (Front)
 +earphone(worst)+battery1+ Cable(worst)+adapter1

The worst case for final test:
 b: LTE Band 48 Idle+BT+WLAN +NFC+GNSS Rx+camera (Front)
 +earphone(worst)+battery1+ Cable(worst)+adapter1

2.1.8 Test Setup Diagram



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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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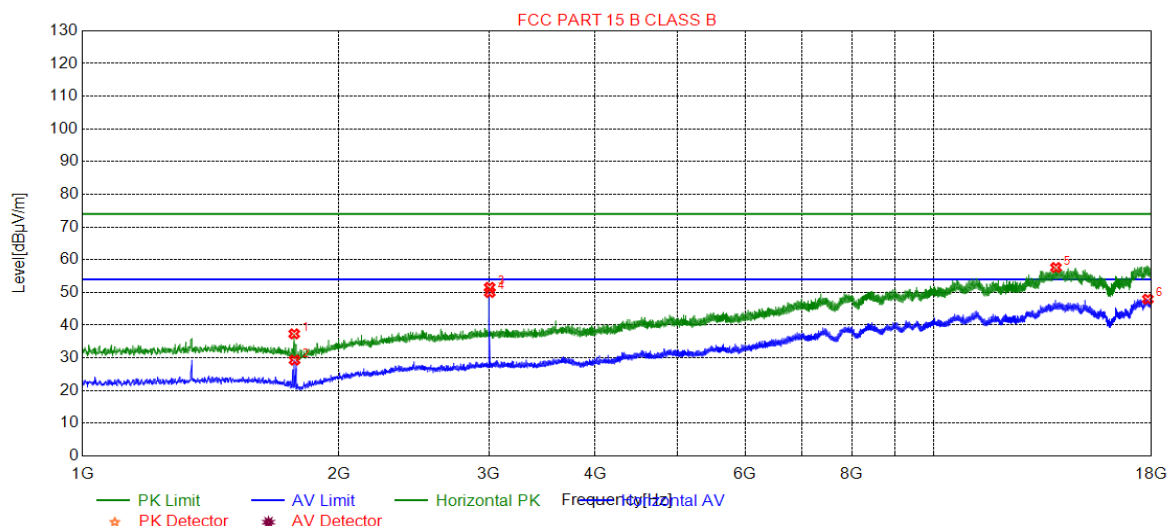
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邮编 710086 sgs.china@sgs.com

Mode:; Polarization:Horizontal

**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1772.688	37.36	74.00	36.64	100	114	Horizontal
2	1774.388	29.33	54.00	24.67	100	307	Horizontal
3	3006.950	51.58	74.00	22.42	100	344	Horizontal
4	3007.800	49.99	54.00	4.01	100	344	Horizontal
5	13901.09	57.63	74.00	16.37	100	344	Horizontal
6	17818.94	47.97	54.00	6.03	100	307	Horizontal

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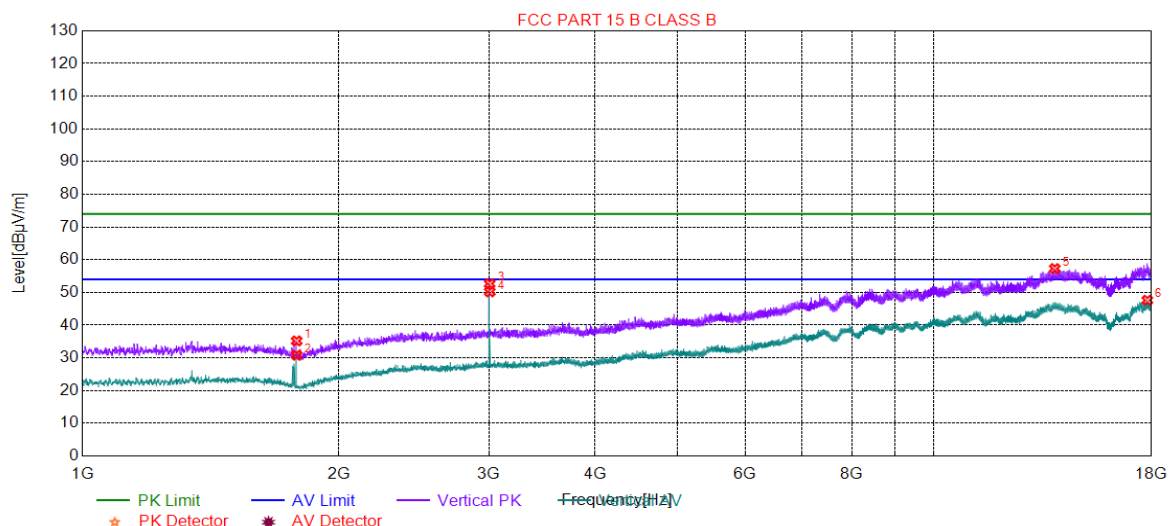
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Mode:; Polarization:Vertical



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1784.589	35.19	74.00	38.81	100	206	Vertical
2	1784.589	30.82	54.00	23.18	100	206	Vertical
3	3006.950	52.68	74.00	21.32	100	16	Vertical
4	3007.800	50.20	54.00	3.80	100	16	Vertical
5	13855.19	57.31	74.00	16.69	100	206	Vertical
6	17795.13	47.63	54.00	6.37	100	16	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
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020/11/18	2021/11/18
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019/12/3	2020/12/3
Amplifier	Brilliant-emc	YX28980930	XAW01-41-06	2020/11/18	2021/11/18
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	$\pm 3.4\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (30MHz-1GHz)
		$\pm 5.2\text{dB}$ (1GHz-6GHz)
		$\pm 5.5\text{dB}$ (6GHz-18GHz)
		$\pm 5.02\text{dB}$ (18GHz-40GHz)

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5 Photographs

5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for ZR/2020/B0016.

5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -

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