




## TEST REPORT

**Application No.:** GZCR2108020806AT  
**Applicant:** DT Research, Inc.  
**Address of Applicant:** 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan  
**Manufacturer:** DT Research, Inc.  
**Address of Manufacturer:** 2000 Concourse Drive, San Jose, CA 95131, USA  
**Factory:** DT Research, Inc. Taiwan Branch  
**Address of Factory:** 6F., No.36 Wuquan 7 th Rd., Wugu Dist. New Taipei City 248 Taiwan  
**Equipment Under Test (EUT):**  
**EUT Name:** Rugged Tablet  
**Model No.:** DT382GL, DT382xxxx(x= 0-9, A~Z, - or null) □  
□ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:**   
**Standard(s) :** 47 CFR Part 15, Subpart B  
**Date of Receipt:** 2021-08-05  
**Date of Test:** 2021-08-05 to 2021-08-23  
**Date of Issue:** 2021-08-27

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

Kobe Jian  
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-27		Original

Authorized for issue by:				
				
		Lily Kuang/Project Engineer		
				
		Ricky Liu/Reviewer		

## 2 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)		ANSI C63.4:2014	Class B	Pass*
Radiated Emissions (above 1GHz)		ANSI C63.4:2014	Class B	Pass*

\*: the radiated emissions were scanned from 30MHz-40GHz, only the 30MHz-18GHz data is shown in the report, No emission was detected in the range 18GHz-40GHz.

### Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

### Declaration of EUT Family Grouping:

Model No.: DT382GL, DT382xxxx(x= 0-9, A-Z, - or null)

Only the model DT382GL was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model no.

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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: AC Adapter  
Model: A17-065N1A  
Input: AC 100-240V, 50/60Hz, 1.8A  
Output: DC 20V, 3.25A/DC15V, 3A/DC9V, 2A/DC5V, 2A

Rechargeable lithium-Ion Polymer Battery  
Model: ACC-006-60K(3ICP9/36/115)  
Rated Capacity:5400mAh  
Voltage: 11.4VDC  
Watt-Hour: 61.56Wh  
Max Charge Voltage:13.05V

Test voltage: AC 120V, 60Hz or AC 230V, 50Hz  
Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the results of the worst test result(AC 120V, 60Hz);

Cable(s): AC cable:172cm unshielded  
DC cable:175cm unshielded

Internal Source: More than 108MHz

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Earphone	PHILIPS	AK423DS	/
U-disk	Kingston	16G2D	/



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### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at Mains Terminals (150kHz-30MHz)	3.12dB
Radiated Emissions (30MHz-1GHz)	5.06dB (3m) 4.46dB (10m)
Radiated Emissions (above 1GHz)	5.08dB (1GHz-6GHz) 5.14dB (6GHz-18GHz)
<b>Remark:</b> The $U_{lab}$ (lab Uncertainty) is less than $U_{CISPR}$ (CISPR 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.	

### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555

Fax: +86 20 82075059

No tests were sub-contracted.

## 4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

## 4.6 Deviation from Standards

None

## 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ChangZhou ZhongYu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Network-GZ	Rohde & Schwarz	ENV216	EMC2135	2020-09-25	2021-09-24
Coaxial Cable	HangTianXing	2m	EMC0107	2020-09-09	2022-09-08
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A
EMI Test Receiver(9kHz-3.6GHz)	Rohde & Schwarz	ESR4	EMC2221	2021-06-01	2022-05-31

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKM-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A





General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

## 6 Emission Test Results

## 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
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

### 6.1.1 E.U.T. Operation

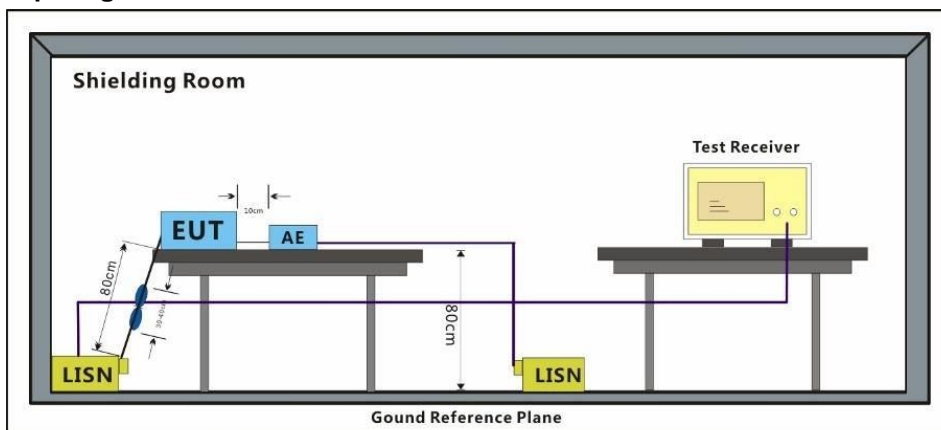
Operating Environment:

Temperature:	21.8 °C	Humidity:	52.7 % RH	Atmospheric Pressure:	1010 mbar
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### 6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	On mode, keep EUT working normally.
Final test	01	On mode, keep EUT working with Adapter, battery, camera, USB and earphone.
Pre-scan	02	Idle mode, Keep the EUT at standby mode.
Pre-scan	03	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Pre-scan	04	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Pre-scan	05	Operation(5G Wi-Fi)+Charging:Keep the EUT communicating with router via 5G Wi-Fi and charging.

### 6.1.3 Test Setup Diagram



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Guangzhou Branch Testing Center EEC Laboratory.

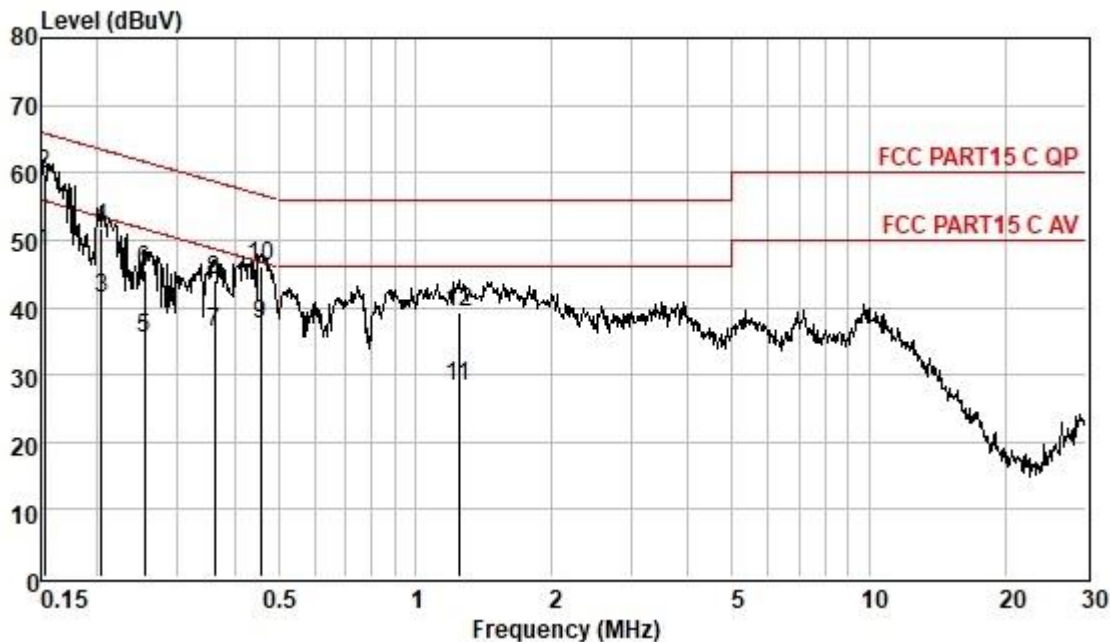
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#### 6.1.4 Measurement Procedure and Data

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.

Measured Level = Read level + Cable Loss + LISN Factor

Test Mode: 01; Line: Live line

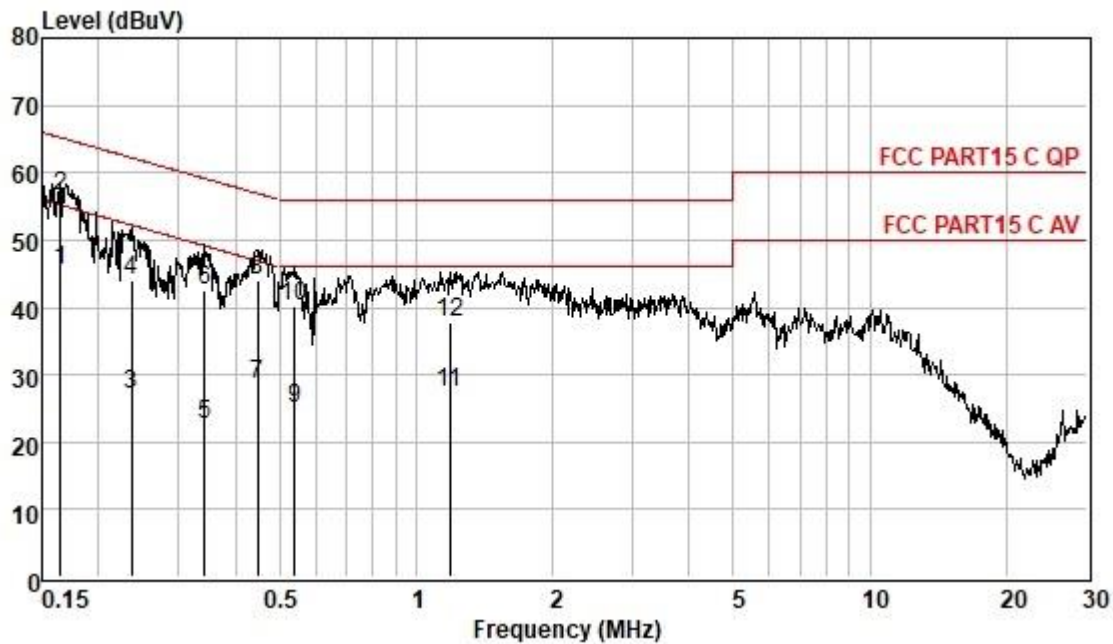


Pol : LINE  
Mode :  
Model :

Frequency MHz	Read Level dBUV	Cable Loss dB	LISN Factor dB	Measured Level dBUV	Limit Line dBUV	Over Limit dB	Remark
0.15	38.52	0.06	9.62	48.20	55.87	-7.67	Average
0.15	50.05	0.06	9.62	59.73	65.87	-6.14	QP
0.20	31.60	0.06	9.63	41.29	53.45	-12.16	Average
0.20	42.17	0.06	9.63	51.86	63.45	-11.59	QP
0.25	25.77	0.06	9.62	35.45	51.64	-16.19	Average
0.25	35.91	0.06	9.62	45.59	61.64	-16.05	QP
0.36	26.53	0.06	9.63	36.22	48.69	-12.47	Average
0.36	34.38	0.06	9.63	44.07	58.69	-14.62	QP
0.46	27.67	0.07	9.63	37.37	46.76	-9.39	Average
0.46	36.37	0.07	9.63	46.07	56.76	-10.69	QP
1.25	18.63	0.09	9.61	28.33	46.00	-17.67	Average
1.25	29.62	0.09	9.61	39.32	56.00	-16.68	QP



Test Mode: 01; Line: Neutral Line



Pol : NEUTRAL

Mode :

Model :

Frequency MHz	Read Level dBUV	Cable Loss dB	LISN Factor dB	Measured Level dBUV	Limit Line dBUV	Over Limit dB	Remark
0.17	35.77	0.06	9.55	45.38	55.21	-9.83	Average
0.17	46.95	0.06	9.55	56.56	65.21	-8.65	QP
0.24	17.53	0.06	9.55	27.14	52.22	-25.08	Average
0.24	34.50	0.06	9.55	44.11	62.22	-18.11	QP
0.34	12.97	0.06	9.54	22.57	49.13	-26.56	Average
0.34	32.87	0.06	9.54	42.47	59.13	-16.66	QP
0.45	18.90	0.06	9.56	28.52	46.93	-18.41	Average
0.45	34.43	0.06	9.56	44.05	56.93	-12.88	QP
0.54	15.48	0.07	9.55	25.10	46.00	-20.90	Average
0.54	30.63	0.07	9.55	40.25	56.00	-15.75	QP
1.18	17.61	0.08	9.55	27.24	46.00	-18.76	Average
1.18	28.03	0.08	9.55	37.66	56.00	-18.34	QP



### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Limit:	
Test Distance:	3m
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) 30MHz to1000MHz

#### 6.2.1 E.U.T. Operation

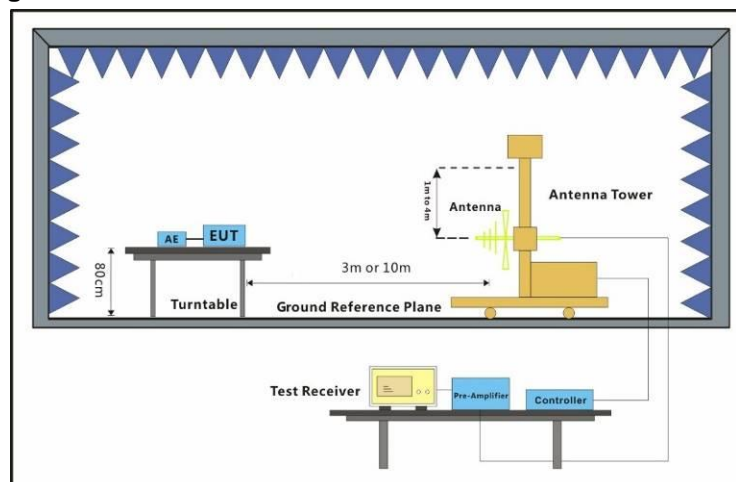
Operating Environment:

Temperature: 23.8 °C Humidity: 54.6 % RH Atmospheric Pressure: 1010 mbar

#### 6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	On mode, keep EUT working normally.
Final test	01	On mode, keep EUT working with Adapter, battery, camera, USB and earphone.
Pre-scan	02	Idle mode, Keep the EUT at standby mode.
Pre-scan	03	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Pre-scan	04	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Pre-scan	05	Operation(5G Wi-Fi)+Charging:Keep the EUT communicating with router via 5G Wi-Fi and charging.

#### 6.2.3 Test Setup Diagram

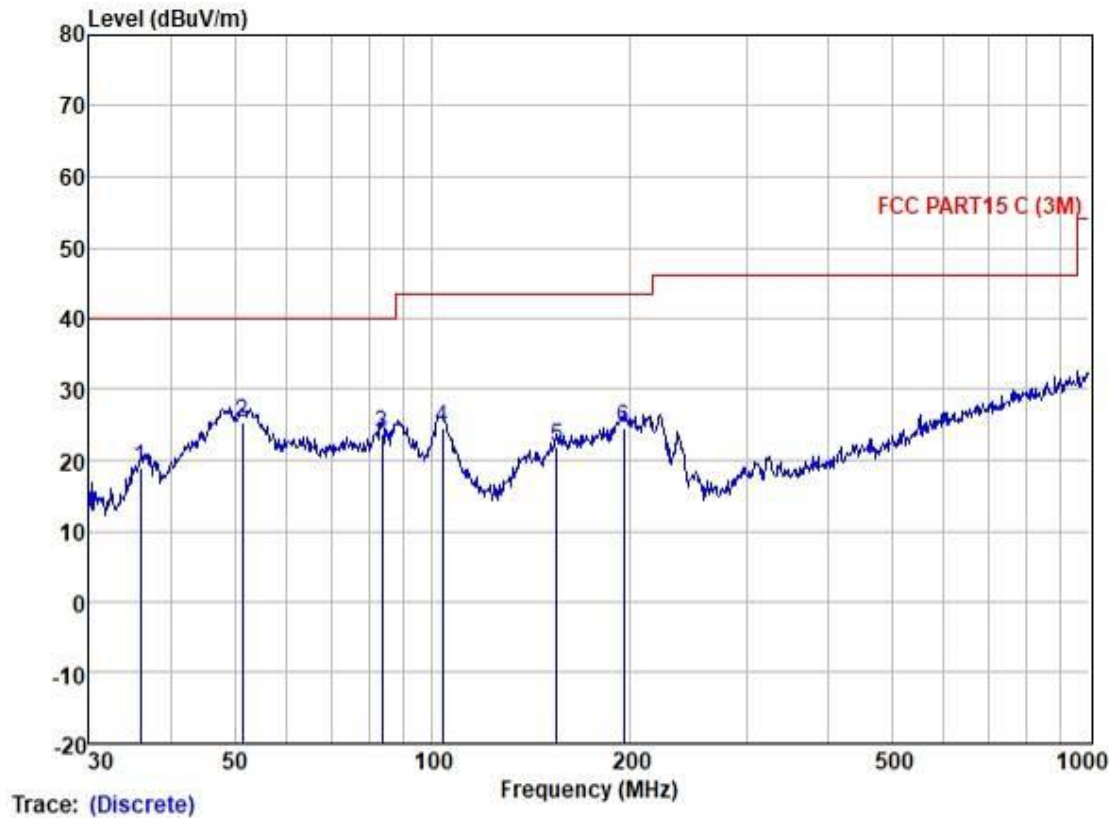


#### 6.2.4 Measurement Procedure and Data

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.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor

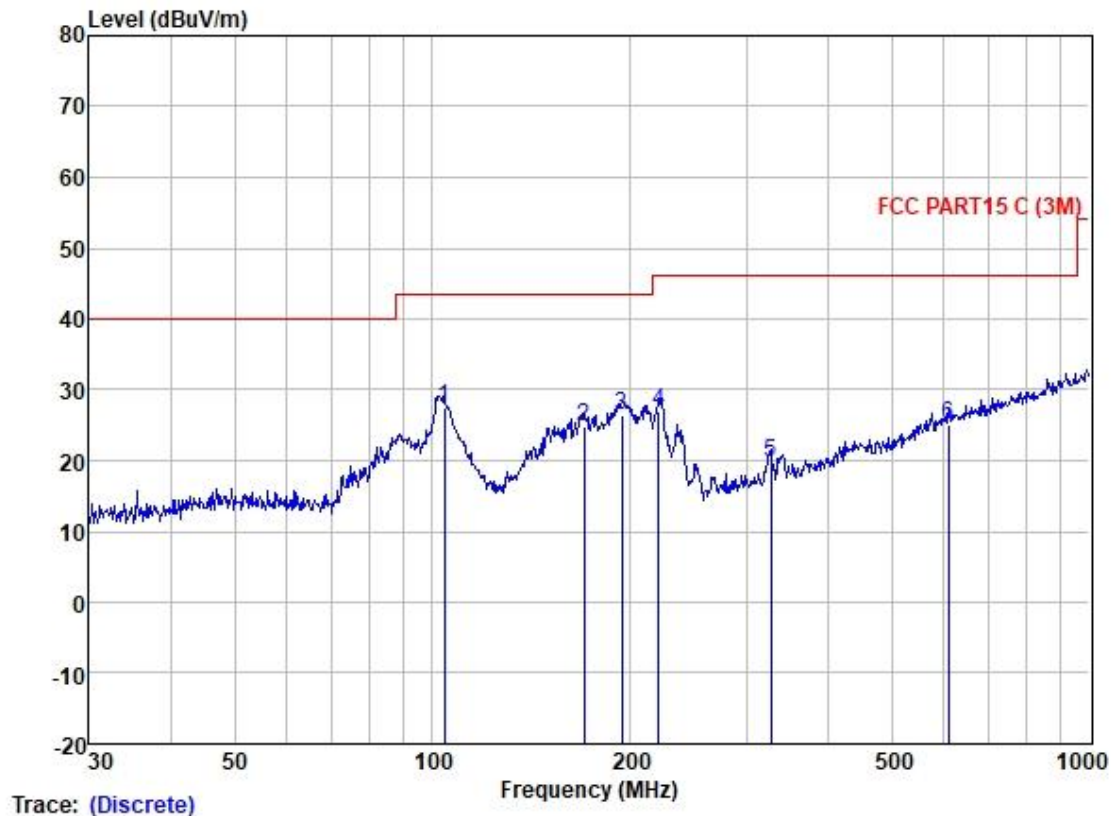
Test Mode: 01; Polarity: Horizontal



Site : SGS  
Condition : FCC PART15 C (3M)  
Job :  
Model :  
Power :  
Test Mode : 01

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	35.87	32.07	12.99	1.07	27.18	18.95	40.00	-21.05	VERTICAL	QP
2	51.30	37.38	13.96	1.15	27.17	25.32	40.00	-14.68	VERTICAL	QP
3	83.82	41.38	8.04	1.53	27.09	23.86	40.00	-16.14	VERTICAL	QP
4	103.44	40.13	9.67	1.75	27.07	24.48	43.50	-19.02	VERTICAL	QP
5	154.28	32.51	13.78	2.28	26.82	21.75	43.50	-21.75	VERTICAL	QP
6	195.14	38.12	10.67	2.50	26.74	24.55	43.50	-18.95	VERTICAL	QP

Test Mode: 01; Polarity: Vertical



Site : SGS  
Condition : FCC PART15 C (3M)  
Job :  
Model :  
Power :  
Test Mode : 01

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Measured Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dBuV		
1	104.17	42.97	9.80	1.75	27.07	27.45	43.50	-16.05	HORIZONTAL	QP
2	170.19	35.98	13.10	2.40	26.77	24.71	43.50	-18.79	HORIZONTAL	QP
3	194.45	40.01	10.73	2.50	26.74	26.50	43.50	-17.00	HORIZONTAL	QP
4	220.62	41.17	9.81	2.65	26.70	26.93	46.00	-19.07	HORIZONTAL	QP
5	327.89	28.59	14.45	3.38	26.72	19.70	46.00	-26.30	HORIZONTAL	QP
6	609.92	27.81	20.30	5.18	28.21	25.08	46.00	-20.92	HORIZONTAL	QP



### 6.3 Radiated Emissions (above 1GHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Limit:	
Above 1GHz	74(dBμV/m) peak, 54(dBμV/m) average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

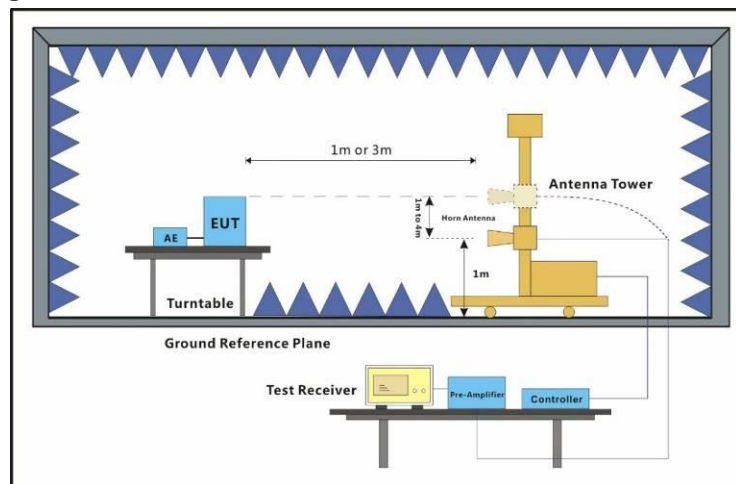
#### 6.3.1 E.U.T. Operation

Operating Environment:			
Temperature:	23.5 °C	Humidity:	56.3 % RH
		Atmospheric Pressure:	1010 mbar

#### 6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	On mode, keep EUT working normally.
Final test	01	On mode, keep EUT working with Adapter, battery, camera, USB and earphone.
Pre-scan	02	Idle mode, Keep the EUT at standby mode.
Pre-scan	03	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Pre-scan	04	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Pre-scan	05	Operation(5G Wi-Fi)+Charging:Keep the EUT communicating with router via 5G Wi-Fi and charging.

#### 6.3.3 Test Setup Diagram



#### 6.3.4 Measurement Procedure and 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.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



Test Mode: 01; Polarity: Horizontal

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1011.629	49.03	24.22	2.25	38.50	37.00	54.00	-17.00	HORIZONTAL Average
2	1011.629	55.46	24.22	2.25	38.50	43.43	74.00	-30.57	HORIZONTAL Peak
3	1927.289	41.20	26.06	2.95	37.74	32.47	54.00	-21.53	HORIZONTAL Average
4	1927.289	46.59	26.06	2.95	37.74	37.86	74.00	-36.14	HORIZONTAL Peak
5	3205.345	37.68	28.60	4.00	37.09	33.19	54.00	-20.81	HORIZONTAL Average
6	3205.345	45.62	28.60	4.00	37.09	41.13	74.00	-32.87	HORIZONTAL Peak
7	4573.760	38.02	30.91	5.33	36.82	37.44	54.00	-16.56	HORIZONTAL Average
8	4573.760	46.03	30.91	5.33	36.82	45.45	74.00	-28.55	HORIZONTAL Peak
9	7326.267	33.19	36.00	6.13	37.43	37.89	54.00	-16.11	HORIZONTAL Average
10	7326.267	41.07	36.00	6.13	37.43	45.77	74.00	-28.23	HORIZONTAL Peak
11	10822.920	31.34	39.89	7.61	37.30	41.54	54.00	-12.46	HORIZONTAL Average
12	10822.920	39.84	39.89	7.61	37.30	50.04	74.00	-23.96	HORIZONTAL Peak

Test Mode: 01; Polarity: Vertical

	Freq	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1032.305	47.50	24.25	2.34	38.49	35.60	54.00	-18.40	VERTICAL Average
2	1032.305	54.61	24.25	2.34	38.49	42.71	74.00	-31.29	VERTICAL Peak
3	2053.822	40.30	26.19	3.12	37.69	31.92	54.00	-22.08	VERTICAL Average
4	2053.822	46.84	26.19	3.12	37.69	38.46	74.00	-35.54	VERTICAL Peak
5	2999.187	41.01	28.40	3.80	37.25	35.96	54.00	-18.04	VERTICAL Average
6	2999.187	45.44	28.40	3.80	37.25	40.39	74.00	-33.61	VERTICAL Peak
7	5487.260	37.75	31.80	6.36	36.88	39.03	54.00	-14.97	VERTICAL Average
8	5487.260	44.21	31.80	6.36	36.88	45.49	74.00	-28.51	VERTICAL Peak
9	9530.432	31.97	38.32	7.09	37.43	39.95	54.00	-14.05	VERTICAL Average
10	9530.432	39.37	38.32	7.09	37.43	47.35	74.00	-26.65	VERTICAL Peak
11	12947.070	37.76	39.16	8.50	36.30	49.12	74.00	-24.88	VERTICAL Peak
12	12947.070	31.29	39.16	8.50	36.30	42.65	54.00	-11.35	VERTICAL Average



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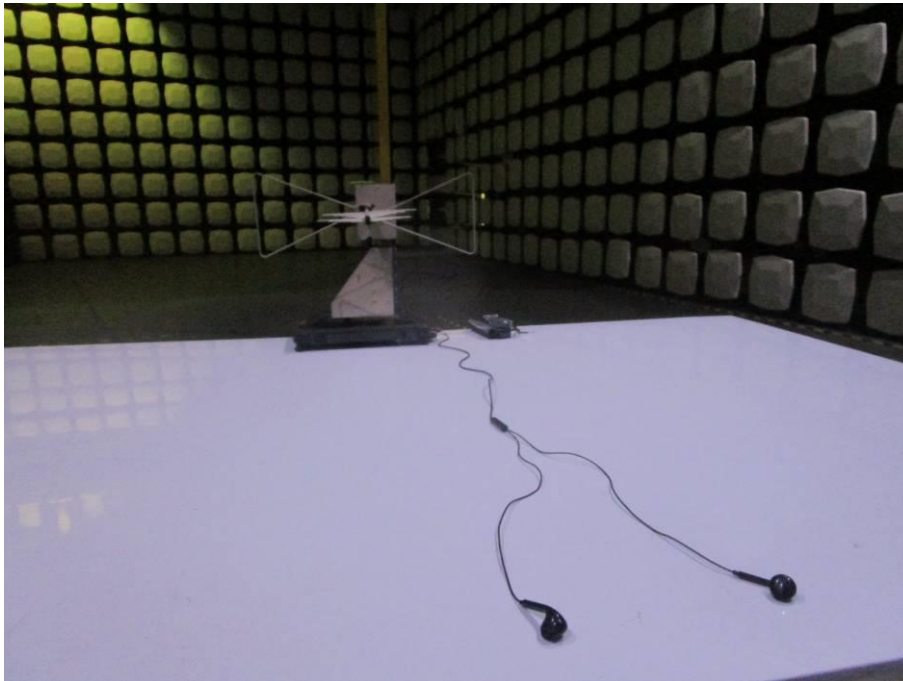
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## 7 Test Setup Photo

### Conducted Emissions at AC Power Line (150kHz-30MHz)

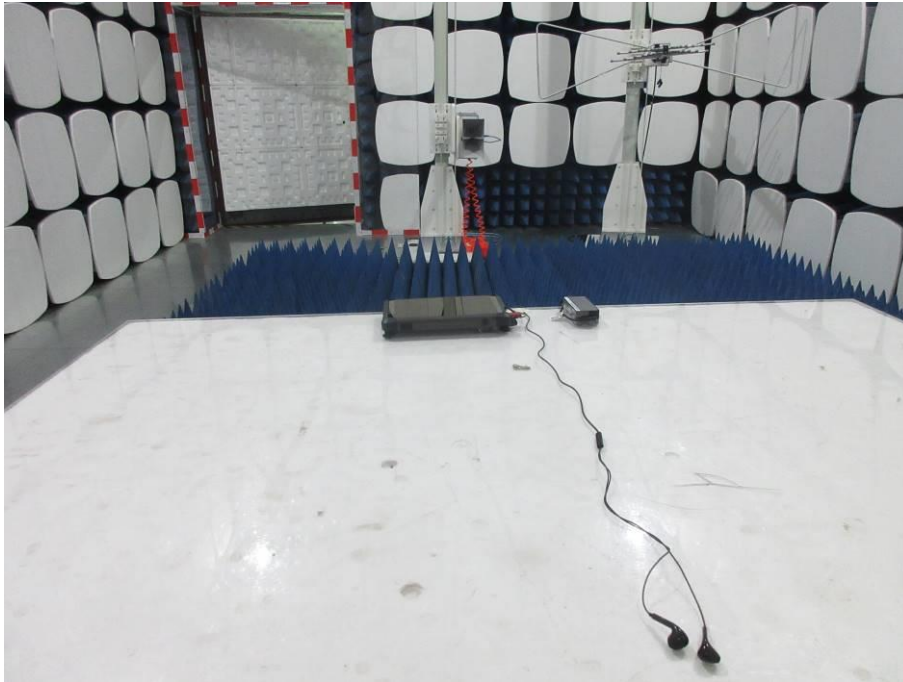


### Radiated Emissions below 1GHz





## Radiated Emissions above 1GHz



## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for GZCR2108020806AT

- End of the Report -