

Global United Technology Services Co., Ltd.

Report No.: GTS201704000201F03

FCC Report (Bluetooth)

Applicant: SHENZHEN GIEC DIGITAL CO., LTD

Address of Applicant: No.1 Building, Factory, No.7 District, Dayang Development

Areas, FuYong Street, Baoan, Shenzhen, China

SHENZHEN GIEC DIGITAL CO., LTD Manufacturer/ Factory:

Address of No.1 Building, Factory, No.7 District, Dayang Development

Areas, FuYongStreet, Baoan, Shenzhen, China **Manufacturer/ Factory:**

Equipment Under Test (EUT)

Tablet PC **Product Name:**

Model No.: TM800A710M, GK-MWQ8004

FCC ID: 2AHYK-TM800A710M

Applicable standards: FCC CFR Title 47 Part 15.247:2016

Date of sample receipt: May 10, 2017

Date of Test: May 12-22, 2017

Date of report issued: May 22, 2017

PASS * Test Result:

Authorized Signature:

Robinson Lo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	May 22, 2017	Original

Prepared By:	Jantly	Date:	May 22, 2017	
	Project Engineer	<u> </u>		
Check By:	Andy W	Date:	May 22, 2017	



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)



5 General Information

5.1 General Description of EUT

Product Name:	Tablet PC
Model No.:	TM800A710M, GK-MWQ8004
Test Model:	TM800A710M
Remark: All above models are ident only difference is the model name fo	ical in the same PCB layout, interior structure and electrical circuits. The r commercial purpose.
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	Integral antenna
Antenna Gain:	2.0dBi
Power Supply:	DC 3.8V 3700mAh lithium battery
	Battery charge by DC5V
	Adapter:
	Model No.: A68-502000
	Input: AC 100-240V, 50/60Hz, 0.35A
	Output: DC 5V, 2.0A



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
	. !		• !	•	• !		• !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

5.3 Description of Support Units

None.

5.4 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 22, 2016.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June 29 2016	June 28 2017		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 29 2016	June 28 2017		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 29 2016	June 28 2017		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2016	June 28 2017		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 29 2016	June 28 2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	June 29 2016	June 28 2017		
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017		
11	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017		
12	Coaxial Cable	GTS	N/A	GTS212	June 29 2016	June 28 2017		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 29 2016	June 28 2017		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 29 2016	June 28 2017		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2016	June 28 2017		
16	Band filter	Amindeon	82346	GTS219	June 29 2016	June 28 2017		

Conduc	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017		
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017		
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017		
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017		

Gen	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	June 29 2016	June 28 2017	



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

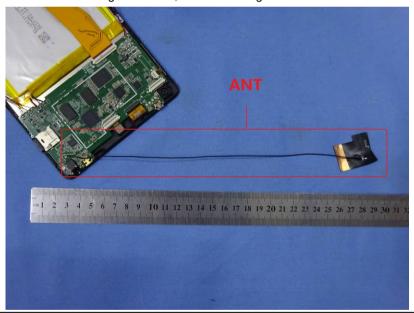
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.0dBi





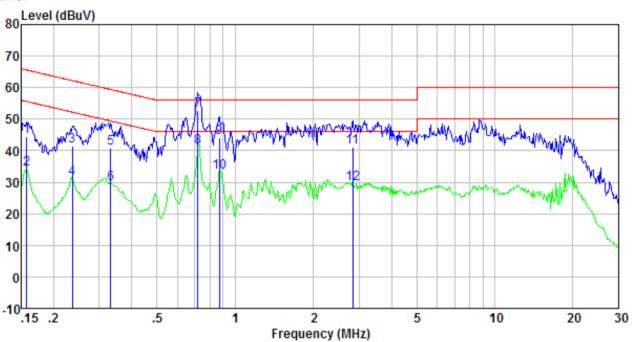
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	veep time=auto				
Limit:	Limit (dBu\/)					
	Prequency range (MHZ) Quasi-peak Average					
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane		_			
Test many divine	AUX Filter AC power Equipment E.U.T Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					



Measurement data

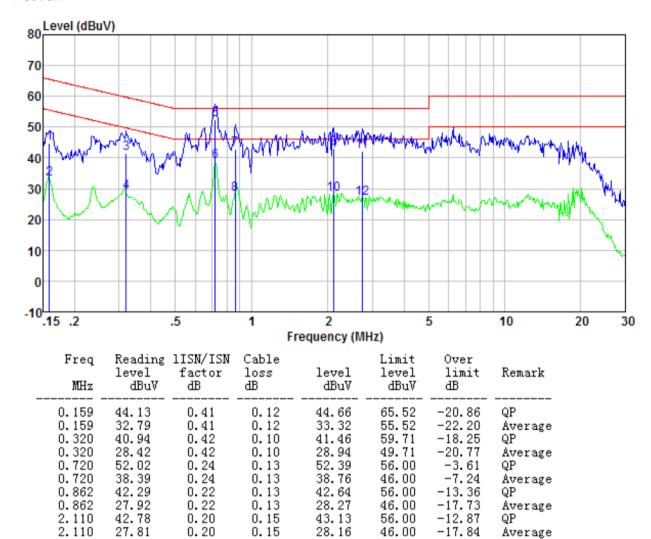
Line:



Freq MHz	Reading level dBuV	1ISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.157	43.84	0.42	0.12	44.38	65.60	-21.22	QP
0.157	33.70	0.42	0.12	34.24	55.60	-21.36	Average
0.237	41.01	0.44	0.12	41.57	62.22	-20.65	QP
0.237	30.71	0.44	0.12	31.27	52.22	-20.95	Average
0.332	40.27	0.43	0.10	40.80	59.40	-18.60	QP
0.332	29.05	0.43	0.10	29.58	49.40	-19.82	Average
0.720	52.22	0.28	0.13	52.63	56.00	-3.37	QP
0.720	40.82	0.28	0.13	41.23	46.00	-4.77	Average
0.871	43.68	0.26	0.13	44.07	56.00	-11.93	QP
0.871	32.70	0.26	0.13	33.09	46.00	-12.91	Average
2.839	40.86	0.20	0.15	41.21	56.00	-14.79	QP
2.839	29.22	0.20	0.15	29.57	46.00	-16.43	Average



Neutral:



Notes:

2.736

2.736

41.76

26.35

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

0.15

0.15

- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss

0.20

0.20

4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

42.11

26.70

56.00

46.00

-13.89

-19.30

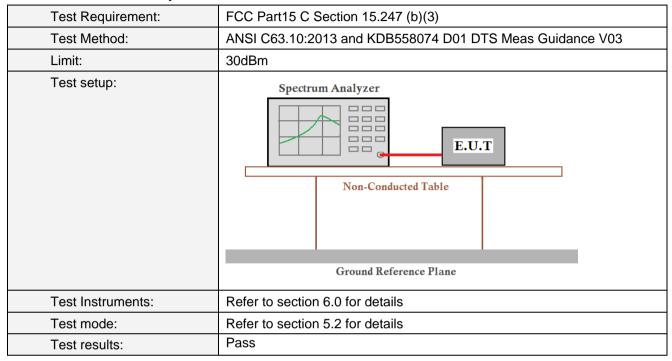
QΡ

Average

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7.3 Conducted Output Power

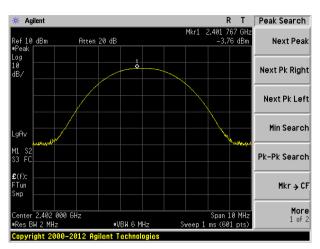


Measurement Data

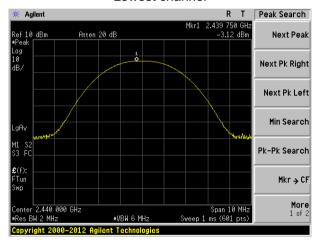
Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-3.76		
Middle	-3.12	30.00	Pass
Highest	-3.47		



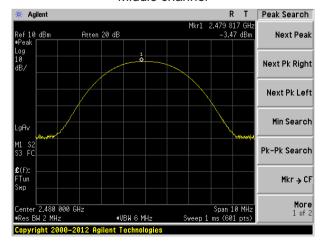
Test plot as follows:



Lowest channel



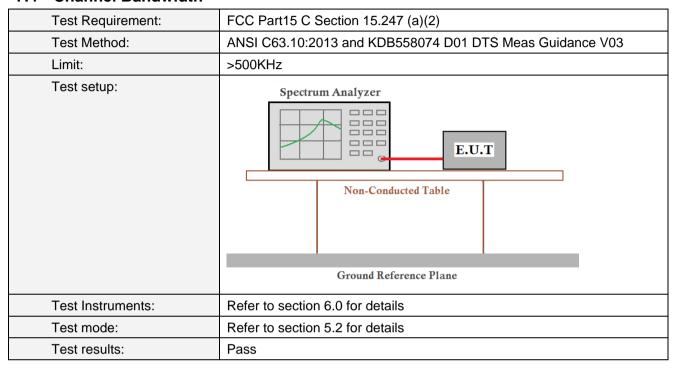
Middle channel



Highest channel



7.4 Channel Bandwidth

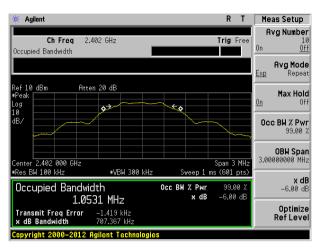


Measurement Data

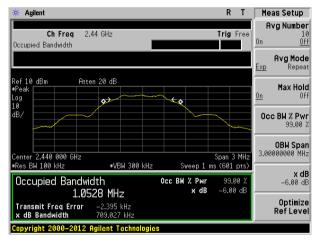
Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
Lowest	0.707			
Middle	0.709	>500	Pass	
Highest	0.707			



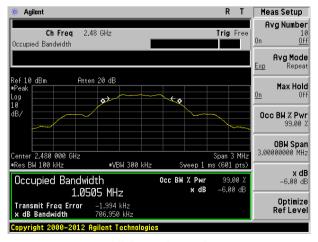
Test plot as follows:



Lowest channel



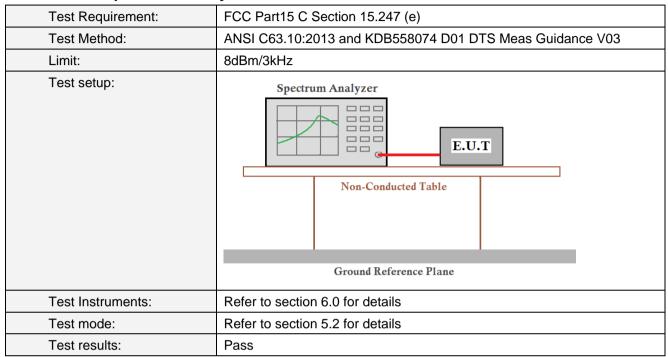
Middle channel



Highest channel



7.5 Power Spectral Density

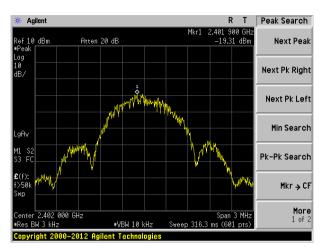


Measurement Data

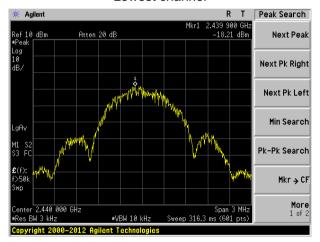
Test channel	Power Spectral Density (dBm)	Limit(dBm/3kHz)	Result
Lowest	-19.31		
Middle	-18.21	8.00	Pass
Highest	-18.53		



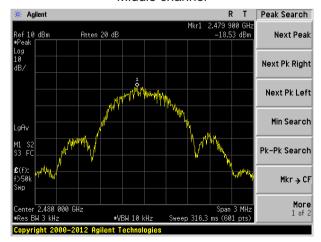
Test plot as follows:



Lowest channel



Middle channel



Highest channel

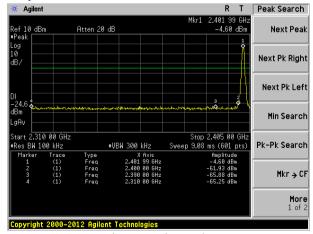


7.6 Band edges

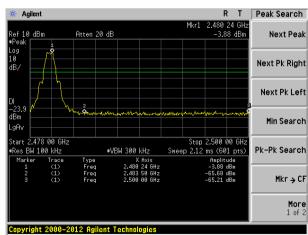
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Test plot as follows:







Highest channel

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7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205					
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
·		Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	3MHz	Average			
Limit:	Freque	1	Limit (dBuV/	/m @3m)	Value			
		, and the second	54.0		Average			
	Above 1	GHz	74.0		Peak			
Test setup:	EUT 3m <4 Turn Table 1.m A	Horn Antenna Spectrum Analyzer Tarin Table						
Test Procedure:								
Test Instruments:	worst case mode is recorded in the report. Refer to section 6.0 for details							
Test mode:	Refer to section	5.2 for details						
Test results:	Pass							

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Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Fest channel:	Lowest
---------------	--------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	43.39	27.59	5.38	30.18	46.18	74.00	-27.82	Horizontal
2400.00	60.26	27.58	5.39	30.18	63.05	74.00	-10.95	Horizontal
2390.00	43.99	27.59	5.38	30.18	46.78	74.00	-27.22	Vertical
2400.00	62.35	27.58	5.39	30.18	65.14	74.00	-8.86	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	33.83	27.59	5.38	30.18	36.62	54.00	-17.38	Horizontal
2400.00	45.10	27.58	5.39	30.18	47.89	54.00	-6.12	Horizontal
2390.00	33.81	27.59	5.38	30.18	36.60	54.00	-17.40	Vertical
2400.00	46.79	27.58	5.39	30.18	49.58	54.00	-4.42	Vertical

	• • •
Lest channel:	Highort
l est channel:	Highest
	g

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	45.56	27.53	5.47	29.93	48.63	74.00	-25.37	Horizontal
2500.00	44.63	27.55	5.49	29.93	47.74	74.00	-26.26	Horizontal
2483.50	46.49	27.53	5.47	29.93	49.56	74.00	-24.44	Vertical
2500.00	45.68	27.55	5.49	29.93	48.79	74.00	-25.21	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.66	27.53	5.47	29.93	39.73	54.00	-14.27	Horizontal
2500.00	34.59	27.55	5.49	29.93	37.70	54.00	-16.30	Horizontal
2483.50	37.92	27.53	5.47	29.93	40.99	54.00	-13.01	Vertical
2500.00	34.55	27.55	5.49	29.93	37.66	54.00	-16.34	Vertical

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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7.7 Spurious Emission

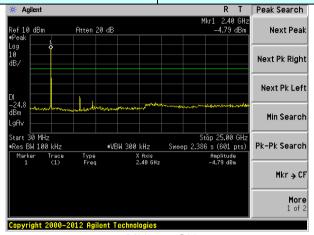
7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

Test plot as follows:

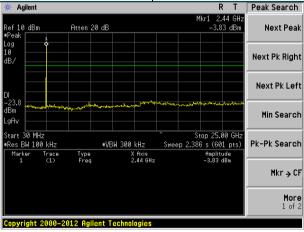


Test channel: Lowest channel



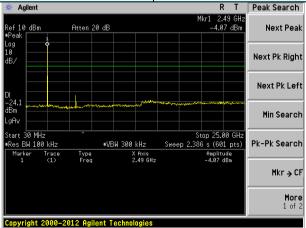
30MHz~25GHz

Test channel: Middle channel



30MHz~25GHz

Test channel: Highest channel



30MHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz								
Test site:	Measurement Dis	Measurement Distance: 3m								
Receiver setup:	Frequency	Frequency Detector RBW VBW								
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak					
	Above 10Hz	Peak	1MHz	3MHz	Peak					
	Above 1GHz	Average	1MHz	3MHz	Average					
Limit:	Frequer	су	Limit (dBuV	/m @3m)	Value					
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1GHz 54.00 Quasi-p									
	Above 10	211-7	54.0	0	Average					
	Above 10)	74.0	0	Peak					
Test setup:	Below 1GHz	EUT+		Antenna 4m >	ñer»					
	Above 1GHz									

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	Tum Table < lm 4m > v Company Company
Test Procedure:	The EUT was placed on the top of a rotating table (0.8 meters below 1G and 1.5 meters above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



Measurement Data

■ Below 1GHz

- DCIOW I								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
36.64	39.29	9.15	0.63	30.06	19.01	40.00	-20.99	Vertical
52.21	40.90	8.24	0.79	29.98	19.95	40.00	-20.05	Vertical
100.23	31.03	12.80	1.19	29.70	15.32	43.50	-28.18	Vertical
199.99	44.18	8.18	1.84	29.20	25.00	43.50	-18.50	Vertical
601.43	26.63	18.35	3.73	29.30	19.41	46.00	-26.59	Vertical
798.98	33.48	21.15	4.45	29.20	29.88	46.00	-16.12	Vertical
473.84	25.21	16.95	3.20	29.35	16.01	46.00	-29.99	Horizontal
539.48	24.34	18.24	3.48	29.30	16.76	46.00	-29.24	Horizontal
614.21	24.91	19.37	3.77	29.29	18.76	46.00	-27.24	Horizontal
739.66	25.01	20.39	4.24	29.20	20.44	46.00	-25.56	Horizontal
798.98	25.88	21.30	4.45	29.20	22.43	46.00	-23.57	Horizontal
968.93	24.79	22.61	5.11	29.10	23.41	54.00	-30.59	Horizontal



■ Above 1GHz

Test channel	est channel: Lowest							
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	37.99	31.78	8.60	32.09	46.28	74.00	-27.72	Vertical
7206.00	32.28	36.15	11.65	32.00	48.08	74.00	-25.92	Vertical
9608.00	31.87	37.95	14.14	31.62	52.34	74.00	-21.66	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	42.41	31.78	8.60	32.09	50.70	74.00	-23.30	Horizontal
7206.00	34.10	36.15	11.65	32.00	49.90	74.00	-24.10	Horizontal
9608.00	31.36	37.95	14.14	31.62	51.83	74.00	-22.17	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average var	uc.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	26.67	31.78	8.60	32.09	34.96	54.00	-19.04	Vertical
7206.00	20.89	36.15	11.65	32.00	36.69	54.00	-17.31	Vertical
9608.00	19.93	37.95	14.14	31.62	40.40	54.00	-13.60	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.98	31.78	8.60	32.09	39.27	54.00	-14.73	Horizontal
7206.00	23.11	36.15	11.65	32.00	38.91	54.00	-15.09	Horizontal
9608.00	19.71	37.95	14.14	31.62	40.18	54.00	-13.82	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	l:			1	Middle			
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 6//6	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4884.00	37.80	31.85	8.67	32.12	46.20	74.00	-27.80	Vertical
7326.00	32.16	36.37	11.72	31.89	48.36	74.00	-25.64	Vertical
9768.00	31.76	38.35	14.25	31.62	52.74	74.00	-21.26	Vertical
12210.00	*					74.00		Vertical
14652.00	*					74.00		Vertical
4884.00	42.19	31.85	8.67	32.12	50.59	74.00	-23.41	Horizontal
7326.00	33.96	36.37	11.72	31.89	50.16	74.00	-23.84	Horizontal
9768.00	31.23	38.35	14.25	31.62	52.21	74.00	-21.79	Horizontal
12210.00	*					54.00		Horizontal
14652.00	*					54.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. 6//6	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4884.00	26.54	31.85	8.67	32.12	34.94	54.00	-19.06	Vertical
7326.00	20.80	36.37	11.72	31.89	37.00	54.00	-17.00	Vertical
9768.00	19.85	38.35	14.25	31.62	40.83	54.00	-13.17	Vertical
12210.00	*					54.00		Vertical
14652.00	*					54.00		Vertical
4884.00	30.82	31.85	8.67	32.12	39.22	54.00	-14.78	Horizontal
7326.00	23.01	36.37	11.72	31.89	39.21	54.00	-14.79	Horizontal
9768.00	19.62	38.35	14.25	31.62	40.60	54.00	-13.40	Horizontal
12210.00	*					54.00		Horizontal
14652.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	l:			I	Highest			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)			Over Limit (dB)	polarization
4960.00	36.41	31.93	8.73	32.16	44.91	74.00	-29.09	Vertical
7440.00	31.24	36.59	11.79	31.78	47.84	74.00	-26.16	Vertical
9920.00	30.94	38.81	14.38	31.88	52.25	74.00	-21.75	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.51	31.93	8.73	32.16	49.01	74.00	-24.99	Horizontal
7440.00	32.91	36.59	11.79	31.78	49.51	74.00	-24.49	Horizontal
9920.00	30.28	38.81	14.38	31.88	51.59	74.00	-22.41	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)			Over Limit (dB)	polarization
4960.00	25.45	31.93	8.73	32.16	33.95	54.00	-20.05	Vertical
7440.00	20.06	36.59	11.79	31.78	36.66	54.00	-17.34	Vertical
9920.00	19.19	38.81	14.38	31.88	40.50	54.00	-13.50	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.59	31.93	8.73	32.16	38.09	54.00	-15.91	Horizontal
7440.00	22.18	36.59	11.79	31.78	38.78	54.00	-15.22	Horizontal
9920.00	18.85	38.81	14.38	31.88	40.16	54.00	-13.84	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

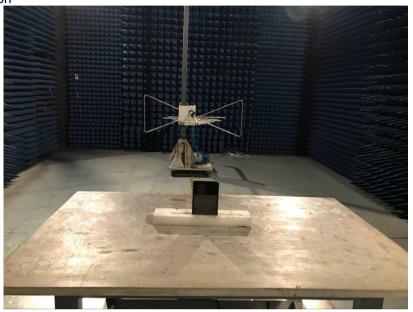
^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

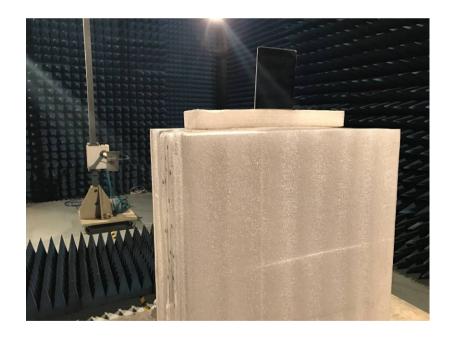
^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201704000201F01

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