

Global United Technology Services Co., Ltd.

Report No.: GTS201607000335E04

FCC Report (Bluetooth)

AOC **Applicant:**

Address of Applicant: 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei

City Taiwan

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: A724G

Trade mark: AOC

FCC ID: 2AEB5-A724G

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2015

Date of sample receipt: July 25, 2016

Date of Test: July 25-28, 2016

Date of report issued: July 29, 2016

PASS * Test Result:

Authorized Signature:

Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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



2 Version

Version No.	Date	Description
00	July 29, 2016	Original

Prepared By:	Edward. Pan	Date:	July 29, 2016	
	Project Engineer			
Check By:	Andy wa	Date:	July 29, 2016	
	Reviewer			

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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	± 3.45dB	(1)				
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.						



5 General Information

5.1 Client Information

Applicant:	AOC
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City Taiwan
Manufacturer:	AOC
Address of Manufacturer:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City Taiwan

5.2 General Description of EUT

Product Name:	Tablet PC	
Model No.:	A724G	
Operation Frequency:	2402MHz~2480MHz	
Channel Numbers:	40	
Channel Separation:	2MHz	
Modulation Type:	GFSK	
Antenna Type:	PIFA antenna	
Antenna Gain:	1.56dBi	
Power Supply:	Adapter	
	Model No.: JHD-AP013U-050150BB-A	
	Input: AC 100-240V, 50/60Hz, 0.35A	
	Output: DC 5.0V, 1500mA	
	or	
	DC 3.7V 2400mAh Li-ion Battery	



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



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5.3 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.

5.4 Description of Support Units

None

5.5 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 fuly 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, June 26, 2013.

5.6 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

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6 Test Instruments list

Rad	Radiated Emission:							
Item	em Test Equipment Manufact		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 25 2016	June 24 2017		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 26 2016	Mar. 25 2017		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2016	Mar. 26 2017		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2016	Mar. 26 2017		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 27 2016	Mar. 26 2017		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2016	Mar. 26 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 25 2016	June 24 2017		
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2016	Mar. 26 2017		

Cond	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	7.0(L)x3.0(W)x3.0(H)	GTS264	June 29 2016	June 28 2017		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 29 2016	June 28 2017		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 29 2016	June 28 2017		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 29 2016	June 28 2017		
6	Coaxial Cable	GTS	N/A	GTS227	June 29 2016	June 28 2017		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

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	July 06 2016	July 05 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 PIFA antenna, the best case gain of the antenna is 1.56dBi





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	weep time=auto			
Limit:	Fraguency range (MHz)	Limit (c	dBuV)		
	Frequency 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 logarithn	n of the frequency.			
Test setup:	Reference Plane		_		
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow			
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 5.3 for details				
Test results:	Pass				

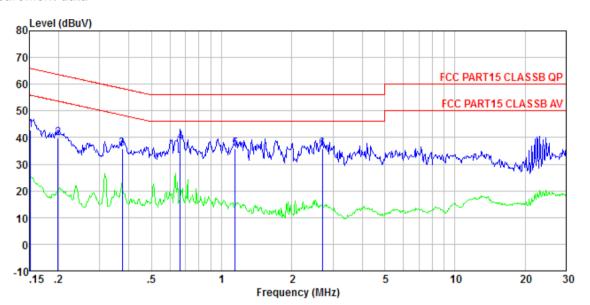
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Measurement data

Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0335

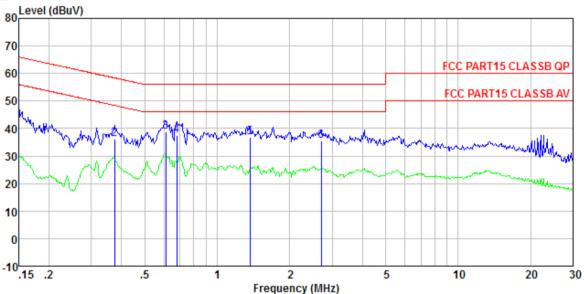
Test mode : Bluetooth 4.0 mode

Test Engineer: Boy

0.51	Freq	Read	LISN Factor					Remark
	MHz	-dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0.199 0.375 0.665 1.141	42. 58 39. 44 35. 71 37. 98 35. 50 35. 42	0.15 0.14 0.11 0.14 0.13 0.14	0.13 0.10 0.13	35. 92 38. 25 35. 76	63.67 58.39 56.00 56.00	-23. 96 -22. 47 -17. 75 -20. 24	QP QP QP QP



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0335

Test mode : Bluetooth 4.0 mode

Test Engineer: Boy

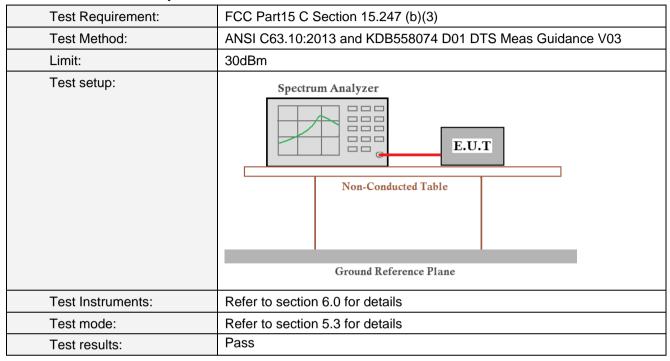
	Freq		LISN Factor				Over Limit	Remark
-	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5	0.611 0.679	38. 69 37. 26 36. 45	0.06 0.07 0.07 0.09	0.12 0.13 0.13	36.00 38.88 37.46 36.67	58.39 56.00 56.00 56.00	-17.12 -18.54 -19.33	QP QP QP QP

Notes:

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



7.3 Conducted Output Power

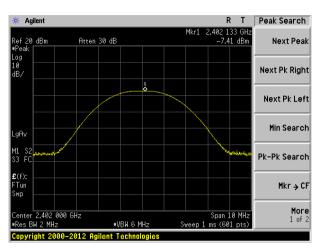


Measurement Data

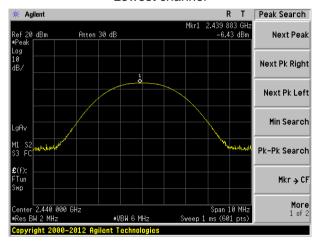
Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-7.41		
Middle	-6.43	30.00	Pass
Highest	-5.36		



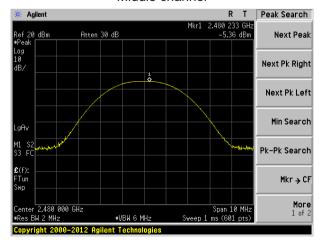
Test plot as follows:



Lowest channel



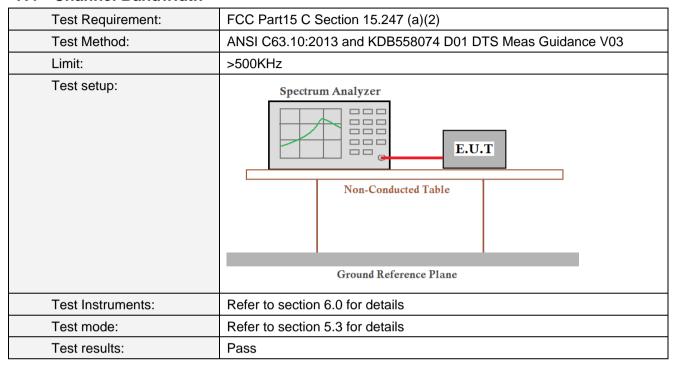
Middle channel



Highest channel



7.4 Channel Bandwidth

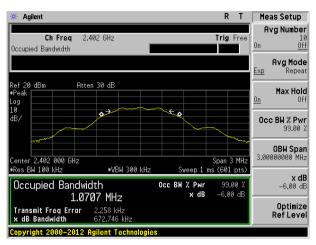


Measurement Data

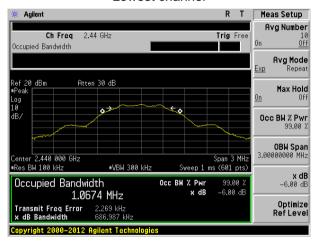
Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.673		
Middle	0.687	>500	Pass
Highest	0.687		



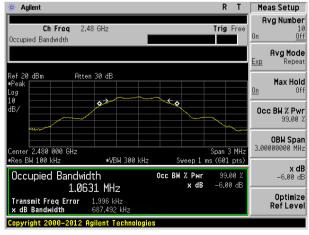
Test plot as follows:



Lowest channel



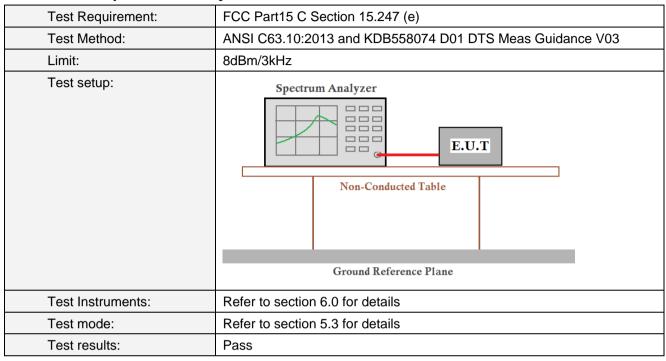
Middle channel



Highest channel



7.5 Power Spectral Density

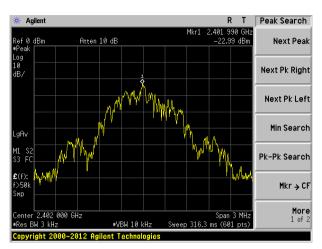


Measurement Data

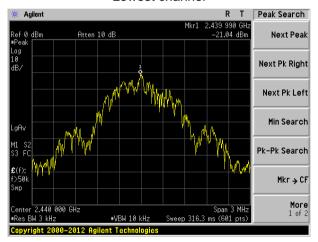
Test channel	Power Spectral Density (dBm)	Limit(dBm/3kHz)	Result
Lowest	-22.99		
Middle	-21.04	8.00	Pass
Highest	-20.21		



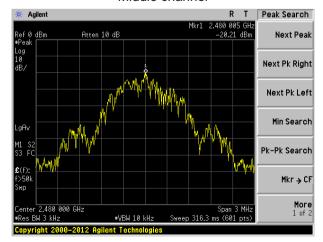
Test plot as follows:



Lowest channel



Middle channel



Highest channel

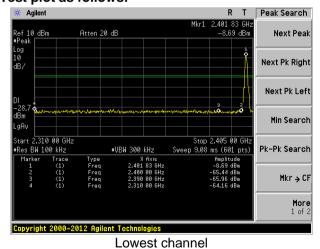


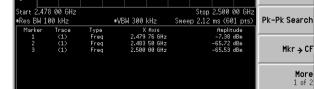
7.6 Band edges

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:	· ·			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

Test plot as follows:





Highest channel

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R T Peak Search

Next Peak

Next Pk Right

Next Pk Left

Min Search



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:			ested, only	the worst ba	and's (2310MHz to	
l con request, remiger	2500MHz) data was showed.					
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
·		Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Freque	ncy	Limit (dBuV/	/m @3m)	Value	
	Above 1	GH ₇	54.0	0	Average	
	Above 1	OTIZ	74.0	0	Peak	
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Table J.Sm A Im AAmplifier					
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. The radiation measurements are performed in X, Y, Z axis positioning. 					
Test Instruments:	Refer to section	node is recorde 6.0 for details	•			
Test mode:	Refer to section	5.3 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	40.36	27.59	5.38	30.18	43.15	74.00	-30.85	Horizontal
2400.00	56.79	27.58	5.39	30.18	59.58	74.00	-14.42	Horizontal
2390.00	40.67	27.59	5.38	30.18	43.46	74.00	-30.54	Vertical
2400.00	58.56	27.58	5.39	30.18	61.35	74.00	-12.65	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	31.48	27.59	5.38	30.18	34.27	54.00	-19.73	Horizontal
2400.00	42.57	27.58	5.39	30.18	45.36	54.00	-8.64	Horizontal
2390.00	31.25	27.59	5.38	30.18	34.04	54.00	-19.96	Vertical
2400.00	43.98	27.58	5.39	30.18	46.77	54.00	-7.23	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	42.17	27.53	5.47	29.93	45.24	74.00	-28.76	Horizontal
2500.00	41.82	27.55	5.49	29.93	44.93	74.00	-29.07	Horizontal
2483.50	42.59	27.53	5.47	29.93	45.66	74.00	-28.34	Vertical
2500.00	42.58	27.55	5.49	29.93	45.69	74.00	-28.31	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	34.28	27.53	5.47	29.93	37.35	54.00	-16.65	Horizontal
2500.00	32.64	27.55	5.49	29.93	35.75	54.00	-18.25	Horizontal
2483.50	35.28	27.53	5.47	29.93	38.35	54.00	-15.65	Vertical
2500.00	32.35	27.55	5.49	29.93	35.46	54.00	-18.54	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.

Global United Technology Services Co., Ltd.

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7.7 Spurious Emission

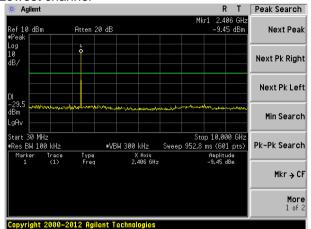
7.7.1 Conducted Emission Method

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 5.3 for details						
Test results:	Pass						



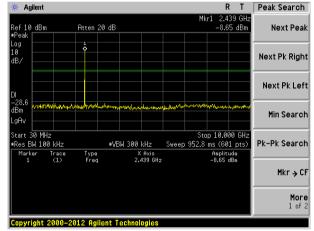
Test plot as follows:

Lowest channel



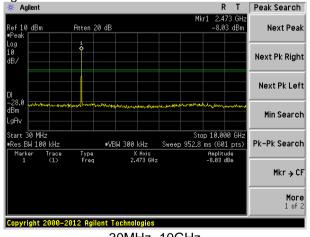
30MHz~10GHz



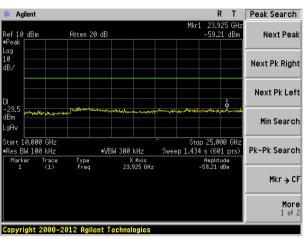


30MHz~10GHz

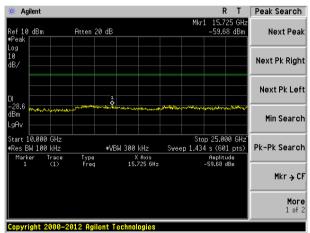
Highest channel



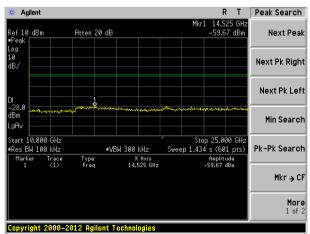
30MHz~10GHz



10GHz~25GHz



10GHz~25GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	30MHz to 25GHz								
Test site:	Measurement Di	Measurement Distance: 3m							
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak				
	Above 4CH=	Peak	1MHz	3MHz	Peak				
	Above 1GHz	RMS	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-1	GHz	54.0	0	Quasi-peak				
	Abovo 10	211-	54.0	0	Average				
	Above 1G112		74.0	0	Peak				
Test setup:	Above 1GHz 74.00 Peak Below 1GHz Antenna Tower Antenna RF Test Receiver Ground Plane								



	Antenna Tower Horn Antenna Turn Table 1.5m V 1.5m
	Amplifier Amplifier
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.
	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.
	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 5.3 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

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
35.75	43.54	14.49	0.62	30.07	28.58	40.00	-11.42	Vertical
44.43	44.24	15.55	0.71	30.02	30.48	40.00	-9.52	Vertical
86.81	38.54	12.89	1.08	29.76	22.75	40.00	-17.25	Vertical
141.83	41.09	10.20	1.52	29.45	23.36	43.50	-20.14	Vertical
197.89	36.06	12.57	1.83	29.21	21.25	43.50	-22.25	Vertical
419.11	32.17	17.43	2.94	29.46	23.08	46.00	-22.92	Vertical
43.97	33.61	15.56	0.71	30.02	19.86	40.00	-20.14	Horizontal
66.27	40.53	12.16	0.91	29.88	23.72	40.00	-16.28	Horizontal
129.92	43.22	10.93	1.44	29.51	26.08	43.50	-17.42	Horizontal
150.54	50.39	10.29	1.57	29.41	32.84	43.50	-10.66	Horizontal
216.02	35.51	13.07	1.93	29.36	21.15	46.00	-24.85	Horizontal
429.52	36.78	17.51	2.99	29.44	27.84	46.00	-18.16	Horizontal



■ Above 1GHz

Test channel	est channel: Lowest							
Peak value:				<u>.</u>				
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	37.39	31.78	8.60	32.09	45.68	74.00	-28.32	Vertical
7206.00	31.89	36.15	11.65	32.00	47.69	74.00	-26.31	Vertical
9608.00	31.52	37.95	14.14	31.62	51.99	74.00	-22.01	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.69	31.78	8.60	32.09	49.98	74.00	-24.02	Horizontal
7206.00	33.65	36.15	11.65	32.00	49.45	74.00	-24.55	Horizontal
9608.00	30.95	37.95	14.14	31.62	51.42	74.00	-22.58	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal
Average val	IIO.	•	•	•	•		•	•

Average var	<u>uo.</u>							
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	26.19	31.78	8.60	32.09	34.48	54.00	-19.52	Vertical
7206.00	20.56	36.15	11.65	32.00	36.36	54.00	-17.64	Vertical
9608.00	19.63	37.95	14.14	31.62	40.10	54.00	-13.90	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.42	31.78	8.60	32.09	38.71	54.00	-15.29	Horizontal
7206.00	22.74	36.15	11.65	32.00	38.54	54.00	-15.46	Horizontal
9608.00	19.37	37.95	14.14	31.62	39.84	54.00	-14.16	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

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^{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:			Mid	ldle			
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
4880.00	36.68	31.85	8.67	32.12	45.08	74.00	-28.92	Vertical
7320.00	31.42	36.37	11.72	31.89	47.62	74.00	-26.38	Vertical
9760.00	31.10	38.35	14.25	31.62	52.08	74.00	-21.92	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	40.84	31.85	8.67	32.12	49.24	74.00	-24.76	Horizontal
7320.00	33.12	36.37	11.72	31.89	49.32	74.00	-24.68	Horizontal
9760.00	30.46	38.35	14.25	31.62	51.44	74.00	-22.56	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal
Average val	ue:				_			
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
4880.00	25.62	31.85	8.67	32.12	34.02	54.00	-19.98	Vertical
7320.00	20.18	36.37	11.72	31.89	36.38	54.00	-17.62	Vertical
9760.00	19.30	38.35	14.25	31.62	40.28	54.00	-13.72	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	29.78	31.85	8.67	32.12	38.18	54.00	-15.82	Horizontal
7320.00	22.31	36.37	11.72	31.89	38.51	54.00	-15.49	Horizontal
9760.00	18.97	38.35	14.25	31.62	39.95	54.00	-14.05	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					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)	; Le	vel ıV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	36.26	31.93	8.73	32.16	44.	.76	74.00	-29.24	Vertical	
7440.00	31.14	36.59	11.79	31.78	47	.74	74.00	-26.26	Vertical	
9920.00	30.85	38.81	14.38	31.88	52	.16	74.00	-21.84	Vertical	
12400.00	*						74.00		Vertical	
14880.00	*						74.00		Vertical	
4960.00	40.34	31.93	8.73	32.16	48	.84	74.00	-25.16	Horizontal	
7440.00	32.80	36.59	11.79	31.78	49	.40	74.00	-24.60	Horizontal	
9920.00	30.18	38.81	14.38	31.88	51	.49	74.00	-22.51	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)	; Le	vel ıV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4960.00	25.33	31.93	8.73	32.16	33	.83	54.00	-20.17	Vertical	
7440.00	19.98	36.59	11.79	31.78	36	.58	54.00	-17.42	Vertical	
9920.00	19.12	38.81	14.38	31.88	40	.43	54.00	-13.57	Vertical	
12400.00	*						54.00		Vertical	
14880.00	*						54.00		Vertical	
4960.00	29.45	31.93	8.73	32.16	37	.95	54.00	-16.05	Horizontal	
7440.00	22.09	36.59	11.79	31.78	38	.69	54.00	-15.31	Horizontal	
9920.00	18.77	38.81	14.38	31.88	40	.08	54.00	-13.92	Horizontal	
12400.00	*						54.00		Horizontal	
14880.00	*						54.00		Horizontal	

Remark:

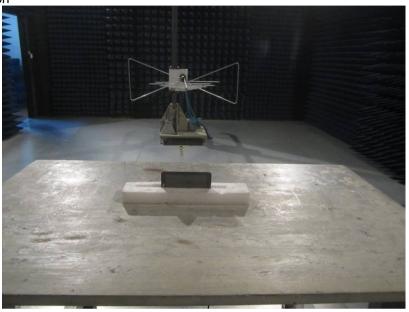
^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

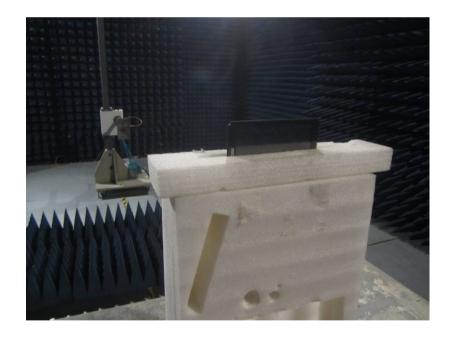
^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201607000335E01

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