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Report No.: EBO1703003-E180

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FCC REPORT

Applicant: VISUAL LAND INC.
Address of Applicant: 17785 Center Court Dr. Suite 670, Cerritos, CA 90703
Manufacturer: VISUAL LAND INC.
Address of Manufacturer: 17785 Center Court Dr. Suite 670, Cerritos, CA 90703

Equipment Under Test (EUT)

Product Name: TABLET
Band Name: VISUAL LAND
Model No.: ME-13Q

FCC ID: SI9-QR320B

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2016

Date of sample receipt: February 28, 2017

Date of Test: February 28, 2017 To March 10, 2017

Date of report issued: March 10, 2017

Test Result : PASS *

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

Authorized Signature:

Kevin Yu
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 EBO 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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2 Version

Version No.	Date	Description
00	March 10, 2017	Original

Prepared By:

Date:

March 10, 2017

Project Engineer

Check By:

Date:

March 10, 2017

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

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

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(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 General Description of EUT

Product Name:	TABLET
Band Name:	VISUAL LAND
Model No.:	ME-13Q
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	FPCB antenna
Antenna gain:	0.4dBi
Power supply:	DC 5V/2500mA or DC 3.7V 2*4000mAh 14.8Wh battery Power Supply: MODEL: SW-050250 INPUT: AC 100-240V,50/60Hz 0.68A max OUTPUT: DC 5V/2500mA



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
<i>Remark: During the test, the dutycycle >98%, 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.</i>	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	90.24	93.79	91.36

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

5.6 Other Information Requested by the Customer

None.



6 Test Instruments list

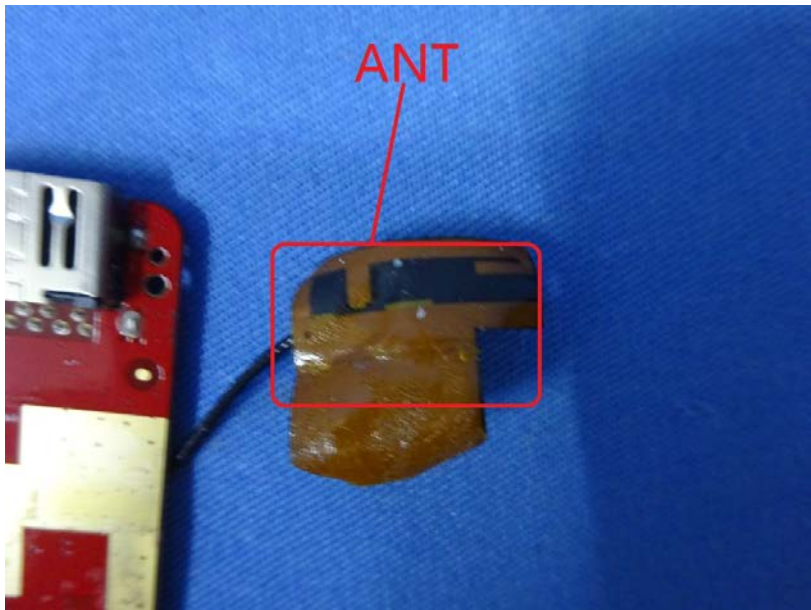
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July 03 2015	July 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum 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
17	Power Meter	Anritsu	ML2495A	GTS540	June 29 2016	June 28 2017
18	Power Sensor	Anritsu	MA2411B	GTS541	June 29 2016	June 28 2017

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	June. 29 2016	June. 28 2017
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017

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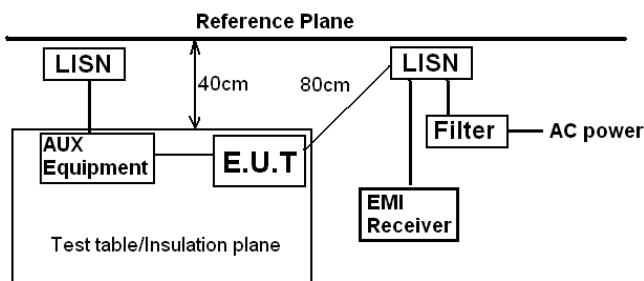
7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
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.	
EUT Antenna:	
<p><i>The antenna is intergral antenna, the best case gain of the antenna is 0.4dBi</i></p> 	



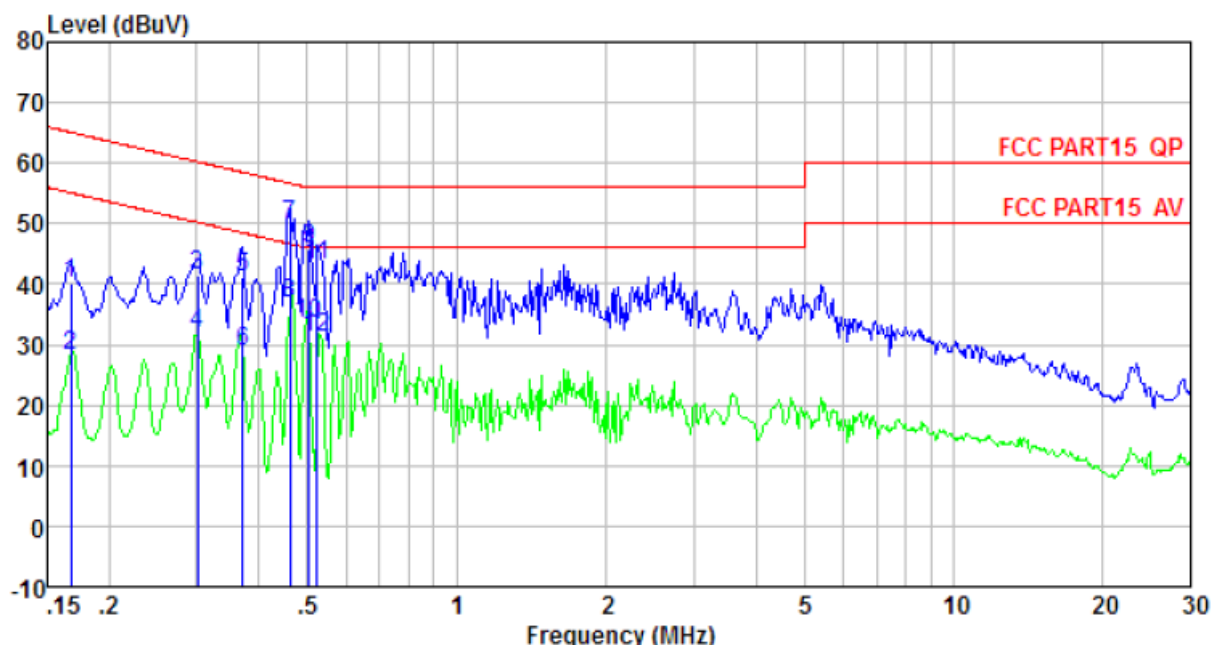
7.2 Conducted Emissions

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, Sweep time=auto		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 of the frequency.			
Test setup:	 <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure:	<ol style="list-style-type: none">1. 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.2. 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).3. 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:

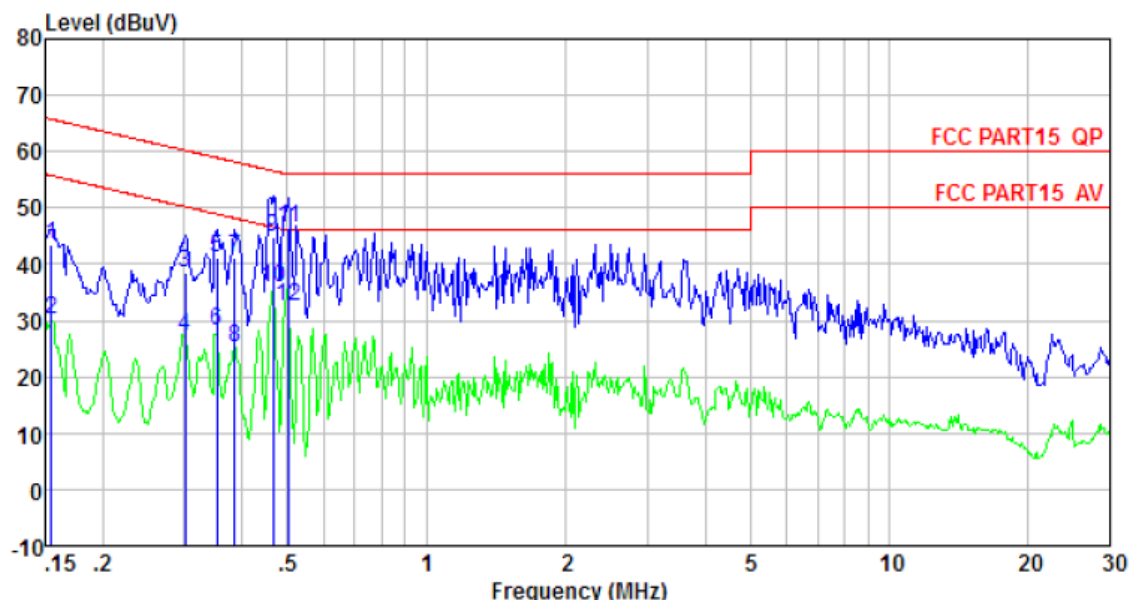
Test mode	Bluetooth4.0 mode	Polarization	Line
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Freq MHz	Reading level dBuV	IISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.168	39.70	0.42	0.12	40.24	65.08	-24.84	QP
0.168	27.76	0.42	0.12	28.30	55.08	-26.78	Average
0.300	41.10	0.44	0.10	41.64	60.24	-18.60	QP
0.300	31.37	0.44	0.10	31.91	50.24	-18.33	Average
0.371	40.59	0.42	0.10	41.11	58.47	-17.36	QP
0.371	28.34	0.42	0.10	28.86	48.47	-19.61	Average
0.461	49.14	0.40	0.11	49.65	56.67	-7.02	QP
0.461	36.19	0.40	0.11	36.70	46.67	-9.97	Average
0.505	45.31	0.38	0.11	45.80	56.00	-10.20	QP
0.505	32.91	0.38	0.11	33.40	46.00	-12.60	Average
0.524	42.70	0.36	0.11	43.17	56.00	-12.83	QP
0.524	30.67	0.36	0.11	31.14	46.00	-14.86	Average



Test mode	Bluetooth4.0 mode	Polarization	Neutral
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Freq MHz	Reading level dBuV	LISN/ISN factor dB	Cable loss dB	level dBuV	Limit level dBuV	Over limit dB	Remark
0.155	42.96	0.41	0.12	43.49	65.74	-22.25	QP
0.155	29.65	0.41	0.12	30.18	55.74	-25.56	Average
0.300	38.12	0.42	0.10	38.64	60.24	-21.60	QP
0.300	26.79	0.42	0.10	27.31	50.24	-22.93	Average
0.352	40.74	0.41	0.10	41.25	58.91	-17.66	QP
0.352	27.74	0.41	0.10	28.25	48.91	-20.66	Average
0.385	40.67	0.40	0.10	41.17	58.17	-17.00	QP
0.385	24.67	0.40	0.10	25.17	48.17	-23.00	Average
0.466	44.44	0.37	0.11	44.92	56.58	-11.66	QP
0.466	35.37	0.37	0.11	35.85	46.58	-10.73	Average
0.505	46.13	0.35	0.11	46.59	56.00	-9.41	QP
0.505	31.92	0.35	0.11	32.38	46.00	-13.62	Average

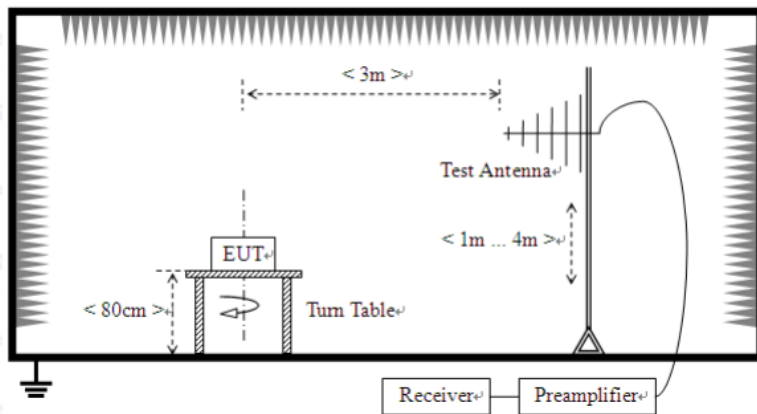
Notes:

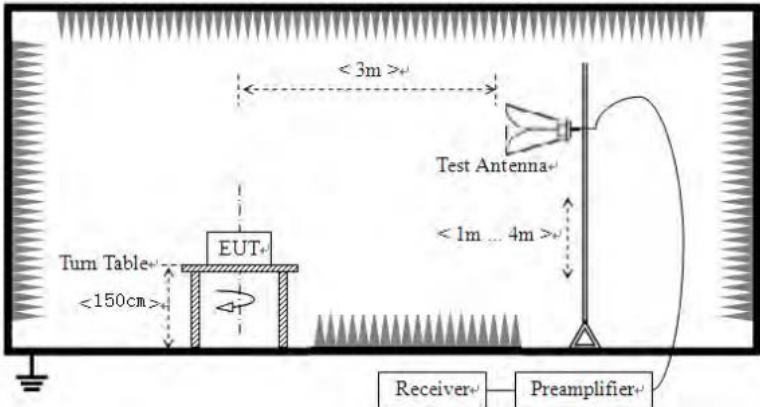
1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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7.3 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 Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
Limit: (Spurious Emissions)	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.00		Quasi-peak Value
	88MHz-216MHz		43.50		Quasi-peak Value
	216MHz-960MHz		46.00		Quasi-peak Value
	960MHz-1GHz		54.00		Quasi-peak Value
	Above 1GHz		54.00		Average Value
			74.00		Peak Value
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test setup:	Below 1GHz				
	<div></div>				
Test setup:	Above 1GHz				

	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) 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, quasi-peak or average method as specified and then reported in a data sheet.
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.2 for details</p>
<p>Test results:</p>	<p>Pass</p>

Measurement data:



7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	94.83	27.58	5.39	34.01	93.79	114.00	-20.21	Vertical
2402.00	88.29	27.58	5.39	34.01	87.25	114.00	-26.75	Horizontal
2440.00	94.73	27.48	5.43	33.96	93.68	114.00	-20.32	Vertical
2440.00	88.55	27.48	5.43	33.96	87.50	114.00	-26.50	Horizontal
2480.00	92.87	27.52	5.47	33.92	91.94	114.00	-22.06	Vertical
2480.00	86.89	27.52	5.47	33.92	85.96	114.00	-28.04	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	82.31	27.58	5.39	34.01	81.27	94.00	-12.73	Vertical
2402.00	78.90	27.58	5.39	34.01	77.86	94.00	-16.14	Horizontal
2440.00	81.09	27.48	5.43	33.96	80.04	94.00	-13.96	Vertical
2440.00	78.06	27.48	5.43	33.96	77.01	94.00	-16.99	Horizontal
2480.00	81.28	27.52	5.47	33.92	80.35	94.00	-13.65	Vertical
2480.00	78.45	27.52	5.47	33.92	77.52	94.00	-16.48	Horizontal

NOTE: RBW 3MHz VBW 3MHz peak detector is for PK value , RMS detector is for AV value



7.3.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
34.76	49.79	11.20	0.61	30.10	31.50	40.00	-8.50	Vertical
45.22	47.73	12.25	0.72	30.10	30.60	40.00	-9.40	Vertical
119.44	58.74	9.40	1.36	29.72	39.78	43.50	-3.72	Vertical
136.46	54.79	7.57	1.48	29.66	34.18	43.50	-9.32	Vertical
226.10	48.95	11.07	1.99	29.59	32.42	46.00	-13.58	Vertical
533.83	39.76	18.14	3.46	29.47	31.89	46.00	-14.11	Vertical
43.20	43.60	12.27	0.70	30.10	26.47	40.00	-13.53	Horizontal
109.80	52.34	11.20	1.28	29.76	35.06	43.50	-8.44	Horizontal
126.33	55.59	8.75	1.41	29.69	36.06	43.50	-7.44	Horizontal
162.04	55.65	8.20	1.64	29.55	35.94	43.50	-7.56	Horizontal
235.82	57.47	11.36	2.05	29.69	41.19	46.00	-4.81	Horizontal
530.10	41.32	18.03	3.44	29.47	33.32	46.00	-12.68	Horizontal



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■ Above 1GHz

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	36.81	31.78	8.60	32.09	45.10	74.00	-28.90	Vertical
7206.00	31.50	36.15	11.65	32.00	47.30	74.00	-26.70	Vertical
9608.00	31.18	37.95	14.14	31.62	51.65	74.00	-22.35	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.00	31.78	8.60	32.09	49.29	74.00	-24.71	Horizontal
7206.00	33.22	36.15	11.65	32.00	49.02	74.00	-24.98	Horizontal
9608.00	30.55	37.95	14.14	31.62	51.02	74.00	-22.98	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	25.72	31.78	8.60	32.09	34.01	54.00	-19.99	Vertical
7206.00	20.25	36.15	11.65	32.00	36.05	54.00	-17.95	Vertical
9608.00	19.35	37.95	14.14	31.62	39.82	54.00	-14.18	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	29.89	31.78	8.60	32.09	38.18	54.00	-15.82	Horizontal
7206.00	22.39	36.15	11.65	32.00	38.19	54.00	-15.81	Horizontal
9608.00	19.04	37.95	14.14	31.62	39.51	54.00	-14.49	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. *“*”*, means this data is the too weak instrument of signal is unable to test.

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Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	36.58	31.85	8.67	32.12	44.98	74.00	-29.02	Vertical
7320.00	31.35	36.37	11.72	31.89	47.55	74.00	-26.45	Vertical
9760.00	31.04	38.35	14.25	31.62	52.02	74.00	-21.98	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	40.72	31.85	8.67	32.12	49.12	74.00	-24.88	Horizontal
7320.00	33.04	36.37	11.72	31.89	49.24	74.00	-24.76	Horizontal
9760.00	30.40	38.35	14.25	31.62	51.38	74.00	-22.62	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	25.54	31.85	8.67	32.12	33.94	54.00	-20.06	Vertical
7320.00	20.13	36.37	11.72	31.89	36.33	54.00	-17.67	Vertical
9760.00	19.25	38.35	14.25	31.62	40.23	54.00	-13.77	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	29.69	31.85	8.67	32.12	38.09	54.00	-15.91	Horizontal
7320.00	22.25	36.37	11.72	31.89	38.45	54.00	-15.55	Horizontal
9760.00	18.92	38.35	14.25	31.62	39.90	54.00	-14.10	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. “*”, means this data is the too weak instrument of signal is unable to test.

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Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.99	31.93	8.73	32.16	44.49	74.00	-29.51	Vertical
7440.00	30.96	36.59	11.79	31.78	47.56	74.00	-26.44	Vertical
9920.00	30.69	38.81	14.38	31.88	52.00	74.00	-22.00	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.01	31.93	8.73	32.16	48.51	74.00	-25.49	Horizontal
7440.00	32.60	36.59	11.79	31.78	49.20	74.00	-24.80	Horizontal
9920.00	29.99	38.81	14.38	31.88	51.30	74.00	-22.70	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.10	31.93	8.73	32.16	33.60	54.00	-20.40	Vertical
7440.00	19.82	36.59	11.79	31.78	36.42	54.00	-17.58	Vertical
9920.00	18.98	38.81	14.38	31.88	40.29	54.00	-13.71	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.19	31.93	8.73	32.16	37.69	54.00	-16.31	Horizontal
7440.00	21.91	36.59	11.79	31.78	38.51	54.00	-15.49	Horizontal
9920.00	18.61	38.81	14.38	31.88	39.92	54.00	-14.08	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. “*”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.87	27.59	5.38	30.18	51.66	74.00	-22.34	Horizontal
2400.00	50.09	27.58	5.39	30.18	52.88	74.00	-21.12	Horizontal
2390.00	49.71	27.59	5.38	30.18	52.50	74.00	-21.50	Vertical
2400.00	49.45	27.58	5.39	30.18	52.24	74.00	-21.77	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.75	27.59	5.38	30.18	38.54	54.00	-15.47	Horizontal
2400.00	37.16	27.58	5.39	30.18	39.95	54.00	-14.05	Horizontal
2390.00	35.90	27.59	5.38	30.18	38.69	54.00	-15.31	Vertical
2400.00	37.09	27.58	5.39	30.18	39.88	54.00	-14.12	Vertical

Test channel:	Highest channel
---------------	-----------------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.33	27.53	5.47	29.93	51.40	74.00	-22.60	Horizontal
2500.00	46.93	27.55	5.49	29.93	50.04	74.00	-23.96	Horizontal
2483.50	49.67	27.53	5.47	29.93	52.74	74.00	-21.26	Vertical
2500.00	48.22	27.55	5.49	29.93	51.33	74.00	-22.67	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.61	27.53	5.47	29.93	41.68	54.00	-12.32	Horizontal
2500.00	36.18	27.55	5.49	29.93	39.29	54.00	-14.71	Horizontal
2483.50	40.07	27.53	5.47	29.93	43.14	54.00	-10.86	Vertical
2500.00	36.35	27.55	5.49	29.93	39.46	54.00	-14.54	Vertical

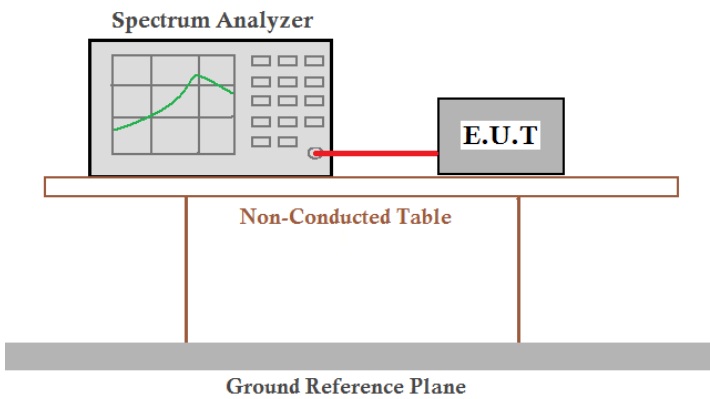
Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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7.4 20dB Occupancy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

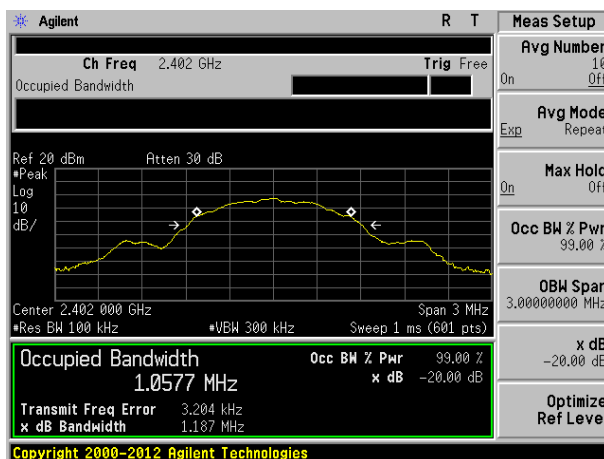
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.187	Pass
Middle	1.187	Pass
Highest	1.212	Pass

Test plot as follows:

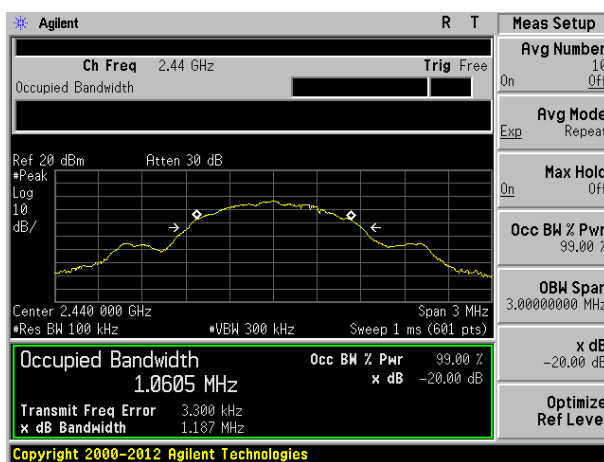


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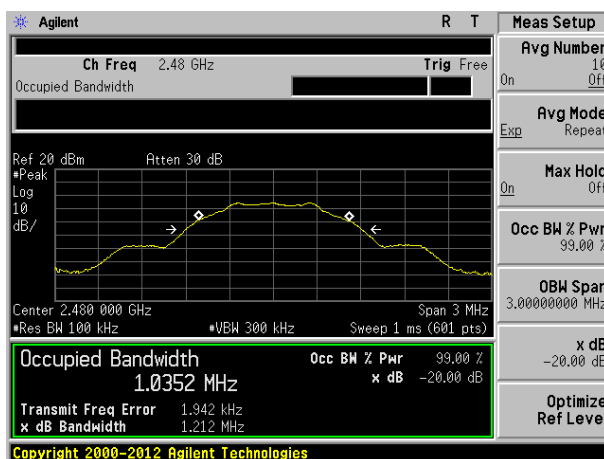
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Lowest channel



Middle channel



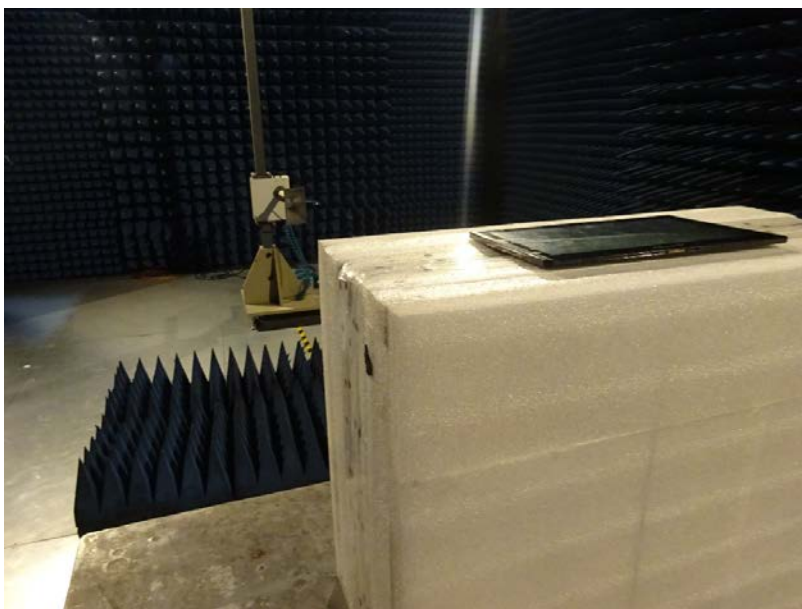
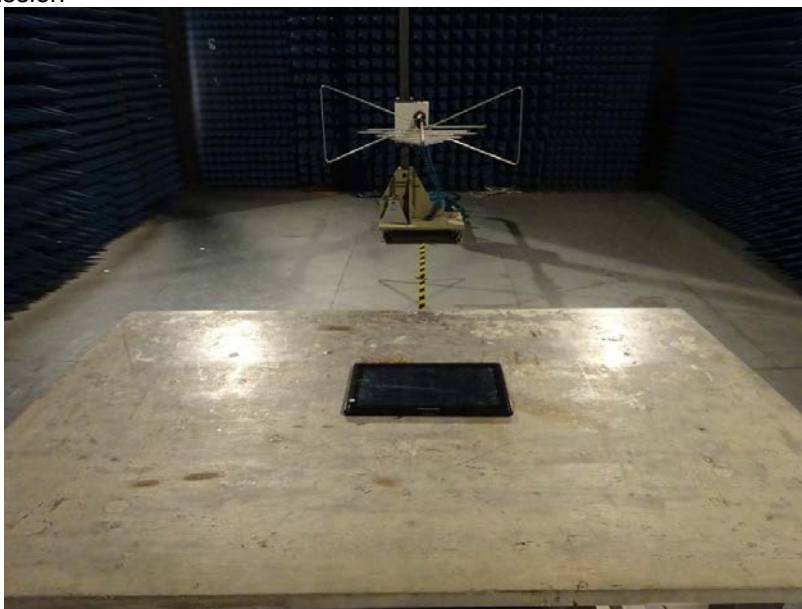
Highest channel

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8 Test Setup Photo

Radiated Emission



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Conducted Emission



9 EUT Constructional Details

Reference to the test report No.EBO1703003-E177

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