FCC Report

Applicant:	CanDo International, Inc.
Address of Applicant:	138 E Lemon Ave, Monrovia, CA 91016

Equipment Under Test (EUT)

Product Name:	HD DIAGNOSTIC TABLET
Model No.:	HD Pro Tab
Trade Mark:	CanDo
FCC ID:	2AKNY-IDSPROTAB
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B:2016
Date of sample receipt:	December 16, 2016
Date of Test:	December 16-23, 2016
Date of report issue:	December 23, 2016
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

2 Version

Version No.	Date	Description
00	*December 23, 2016*	*Original*

Prepared By:	Edward.Pan	***Date:***	*December 23, 2016*
	Project Engineer		
Check By:	Andy.wu	***Date:***	*December 23, 2016*
	Reviewer		

3 Contents

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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	PASS
Radiated Emissions	Part15.109	PASS

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

Remark: Test according to ANSI C63.4:2014

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)
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:	CanDo International, Inc.
Address of Applicant:	138 E Lemon Ave, Monrovia, CA 91016
Manufacturer:	SHENZHEN FCAR TECHNOLOGY CO., LTD.
Address of Manufacturer:	8F, Chuangyi Bldg., No. 3025, Nanhai Ave., Nanshan, Shenzhen, China
Factory:	SHENZHEN FCAR TECHNOLOGY CO.,LTD
Address of Factory:	West 1F, Bldg. B, Hengchao Industrial Park, Tangtou North Ave., Bao'an, Shenzhen, China

5.2 General Description of EUT

Product Name:	HD DIAGNOSTIC TABLET
Model No.:	HD Pro Tab
Power supply:	Adapter Model No.:HNSC050300WX Input: AC 100-240V, 50/60Hz, 0.45A MAX Output: DC 5V, 3A Or DC 3.7V 10000mAh Li-ion Battery

5.3 Test mode

Test mode:	
PC mode	Keep the EUT in PC status
HDMI mode	Keep the EUT in video playing and HDMI output mode
USB mode	Keep the EUT in video playing via USB flash disk mode
REC mode	Keep the EUT in video record mode
Playing mode	Keep the EUT in video playing mode

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 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, 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

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
Apple	PC	A1278	C1MN99ERDTY3	FCC DoC
DELL	KEYBOARD	SK-8115	N/A	FCC DoC
DELL	MOUSE	MOC5UO	N/A	FCC DoC
DELTA	ADAPTER	ADP-60ADT	N/A	FCC DoC

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna.
Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

6 Test Instruments list

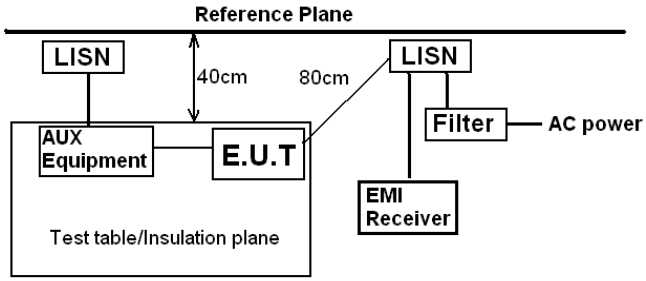
Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June 29 2016	June 28 2017
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June 29 2016	June 28 2017
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	June 29 2016	June 28 2017
6	RF Amplifier	HP	8347A	GTS204	June 29 2016	June 28 2017
7	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June 29 2016	June 28 2017
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial cable	GTS	N/A	GTS210	June 29 2016	June 28 2017
10	Coaxial Cable	GTS	N/A	GTS211	June 29 2016	June 28 2017
11	Thermo meter	N/A	N/A	GTS256	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	Pulse Limiter	R&S	ESH3-Z2	GTS224	June 29 2016	June 28 2017
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 29 2016	June 28 2017
5	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	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
8	Thermo meter	KTJ	TA328	GTS233	June 29 2016	June 28 2017

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

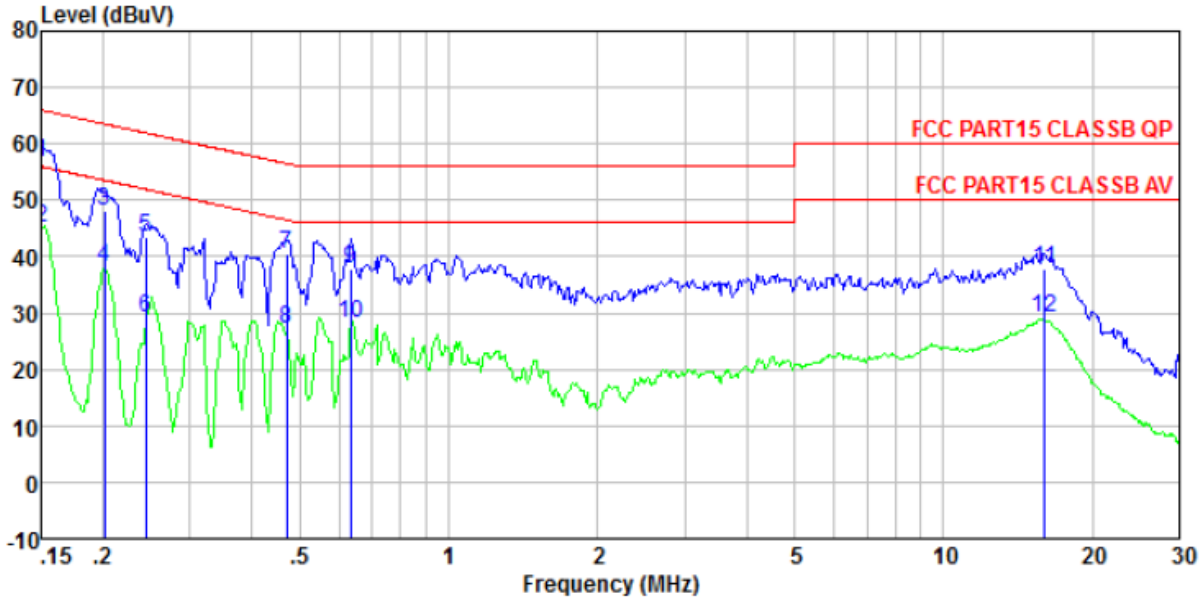
7 Test Results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107
Test Method:	ANSI C63.4:2014
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:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
Test procedure:	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 C63.4:2014 on conducted measurement.
Test Instruments:	Refer to section 6 for details
Test mode:	Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report.
Test results:	Pass

Measurement Data

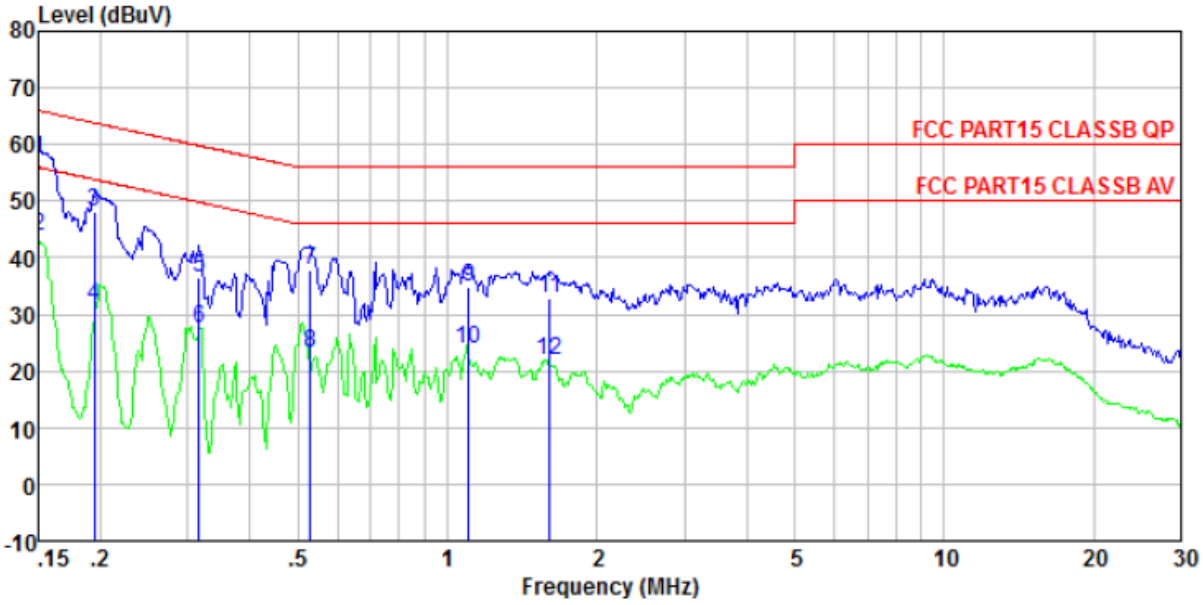
Line:



Site : Shielded room
Condition : FCC PART15 CLASSB QP LINE
Job.No : GTS201612000098
Test mode : PC mode
Test Engineer: Boy

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	56.21	0.42	0.12	56.75	66.00	-9.25	QP
2	0.150	44.48	0.42	0.12	45.02	56.00	-10.98	Average
3	0.202	47.65	0.43	0.13	48.21	63.54	-15.33	QP
4	0.202	37.66	0.43	0.13	38.22	53.54	-15.32	Average
5	0.244	42.85	0.44	0.11	43.40	61.95	-18.55	QP
6	0.244	28.51	0.44	0.11	29.06	51.95	-22.89	Average
7	0.471	39.93	0.39	0.11	40.43	56.49	-16.06	QP
8	0.471	26.66	0.39	0.11	27.16	46.49	-19.33	Average
9	0.634	37.24	0.30	0.13	37.67	56.00	-18.33	QP
10	0.634	27.66	0.30	0.13	28.09	46.00	-17.91	Average
11	16.055	37.33	0.23	0.22	37.78	60.00	-22.22	QP
12	16.055	28.70	0.23	0.22	29.15	50.00	-20.85	Average

Neutral:



Site : Shielded room
Condition : FCC PART15 CLASSB QP NEUTRAL
Job.No : GTS201612000098
Test mode : PC mode
Test Engineer: Boy

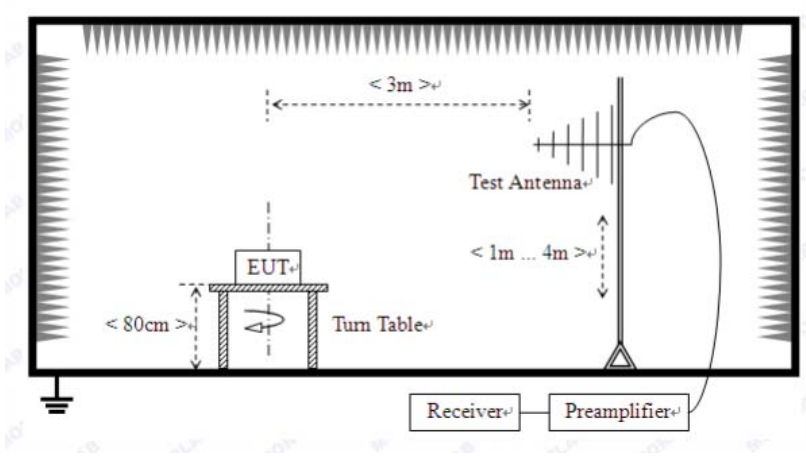
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	56.81	0.41	0.12	57.34	66.00	-8.66	QP
2	0.150	43.15	0.41	0.12	43.68	56.00	-12.32	Average
3	0.194	47.70	0.41	0.13	48.24	63.84	-15.60	QP
4	0.194	31.01	0.41	0.13	31.55	53.84	-22.29	Average
5	0.317	36.08	0.42	0.10	36.60	59.80	-23.20	QP
6	0.317	26.92	0.42	0.10	27.44	49.80	-22.36	Average
7	0.529	37.28	0.33	0.11	37.72	56.00	-18.28	QP
8	0.529	22.82	0.33	0.11	23.26	46.00	-22.74	Average
9	1.106	34.46	0.21	0.13	34.80	56.00	-21.20	QP
10	1.106	23.46	0.21	0.13	23.80	46.00	-22.20	Average
11	1.610	32.48	0.20	0.14	32.82	56.00	-23.18	QP
12	1.610	21.51	0.20	0.14	21.85	46.00	-24.15	Average

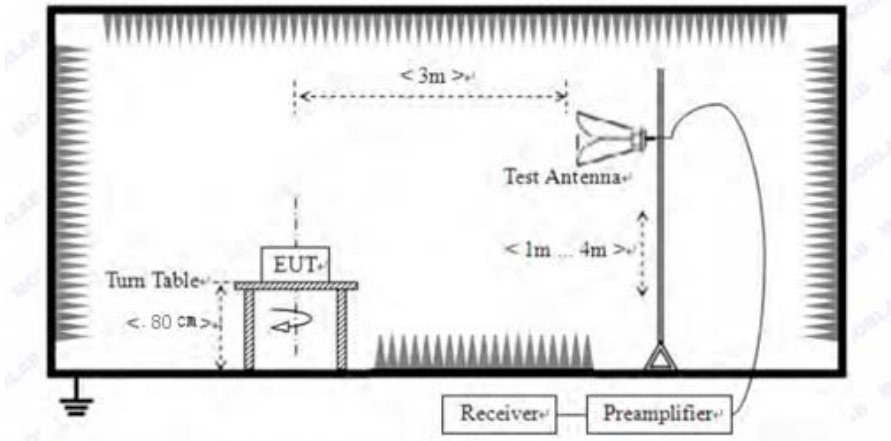
Notes:

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.

7.2 Radiated Emission

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 B Section 15.109</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4:2014</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 6GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m (Semi-Anechoic Chamber)</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr>
<tr><td>74.00</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Test Procedure:</td><td>
1. The EUT was placed on the top of a rotating table 0.8 meters 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.
</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz</td></tr>
</table>

<table>
<tr><td></td><td> 

Above 1GHz

</td></tr>
<tr><td>Test environment:</td><td>Temp.: 25 °C Humid.: 52% Press.: 1 012mbar</td></tr>
<tr><td>Measurement Record:</td><td>Uncertainty: ± 4.5dB</td></tr>
<tr><td>Test Instruments:</td><td>Refer to section 6 for details</td></tr>
<tr><td>Test mode:</td><td>Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report.</td></tr>
<tr><td>Test results:</td><td>Pass</td></tr>
</table>

Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

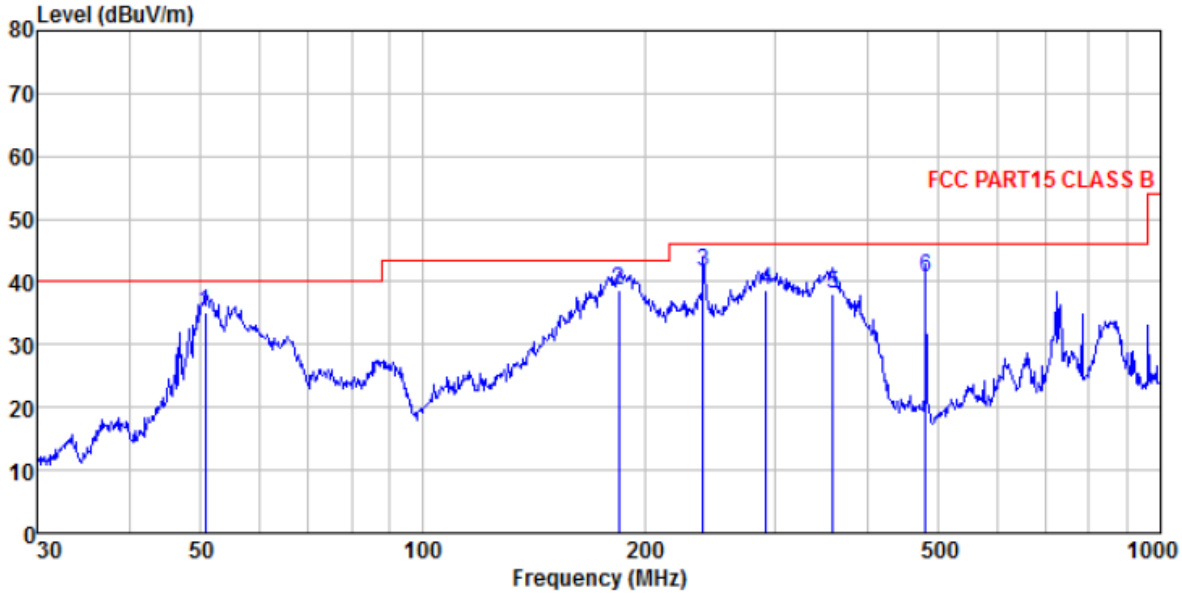
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

For above 1GHz test,1GHz to 25GHz all have been tested, only worse case 1GHz to 6GHz is reported, from 6GHz to 25GHz, no emission is found

Measurement Data

Below 1GHz

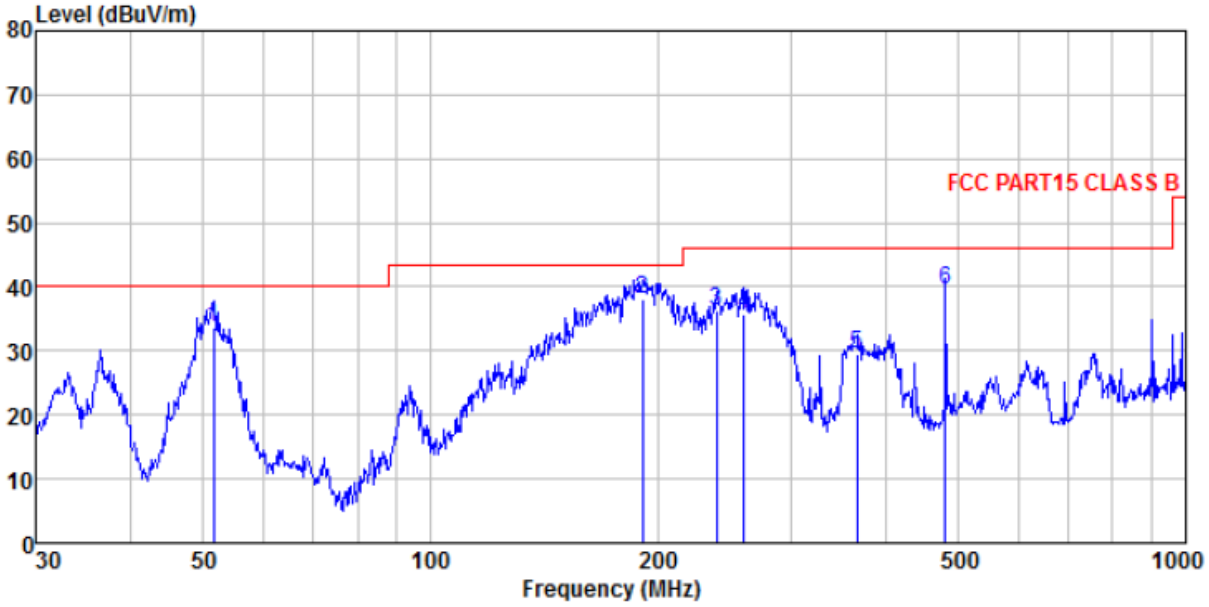
Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m HORIZONTAL
Job No. : GTS201612000098
Test Mode : PC mode
Test Engineer: Sky

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	50.764	49.02	15.21	0.78	29.99	35.02	40.00	-4.98	QP
2	184.490	53.95	12.08	1.76	29.26	38.53	43.50	-4.97	QP
3	239.987	55.07	14.09	2.07	29.56	41.67	46.00	-4.33	QP
4	292.058	51.44	14.89	2.32	29.95	38.70	46.00	-7.30	QP
5	359.186	48.80	16.40	2.67	29.69	38.18	46.00	-7.82	QP
6	480.528	48.82	18.07	3.22	29.34	40.77	46.00	-5.23	QP

Vertical:

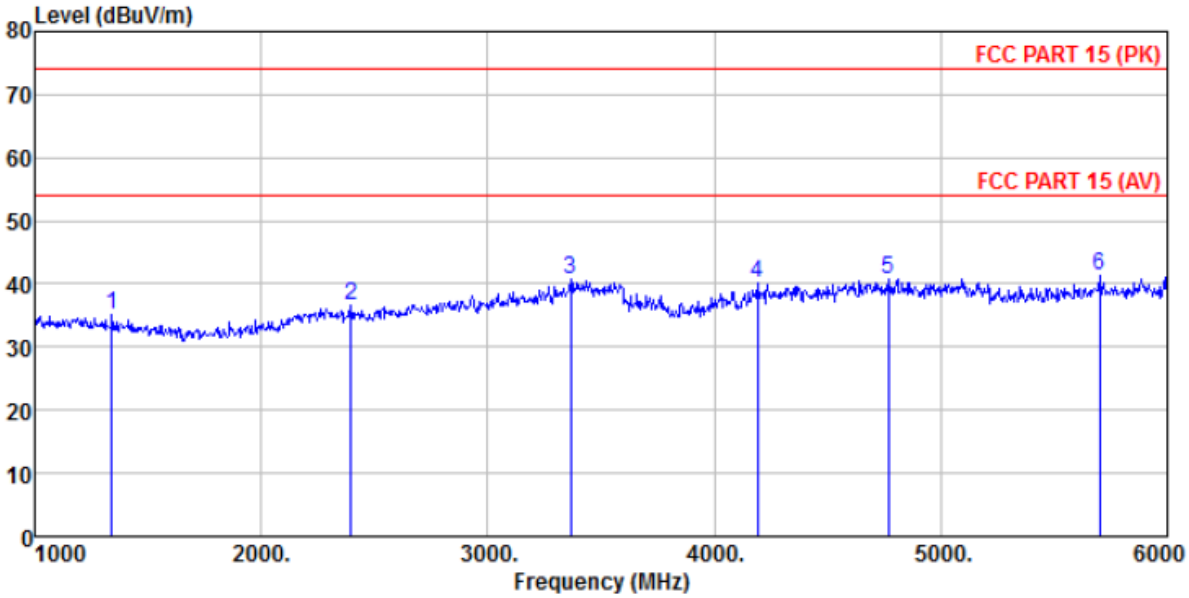


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VERTICAL
Job No. : GTS201612000098
Test Mode : PC mode
Test Engineer: Sky

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	51.662	47.68	15.17	0.79	29.99	33.65	40.00	-6.35	QP
2	191.074	52.91	12.56	1.80	29.23	38.04	43.50	-5.46	QP
3	239.147	49.67	14.04	2.06	29.56	36.21	46.00	-9.79	QP
4	260.144	49.18	14.09	2.18	29.72	35.73	46.00	-10.27	QP
5	366.823	39.90	16.48	2.70	29.65	29.43	46.00	-16.57	QP
6	480.528	47.50	18.07	3.22	29.34	39.45	46.00	-6.55	QP

Above 1GHz

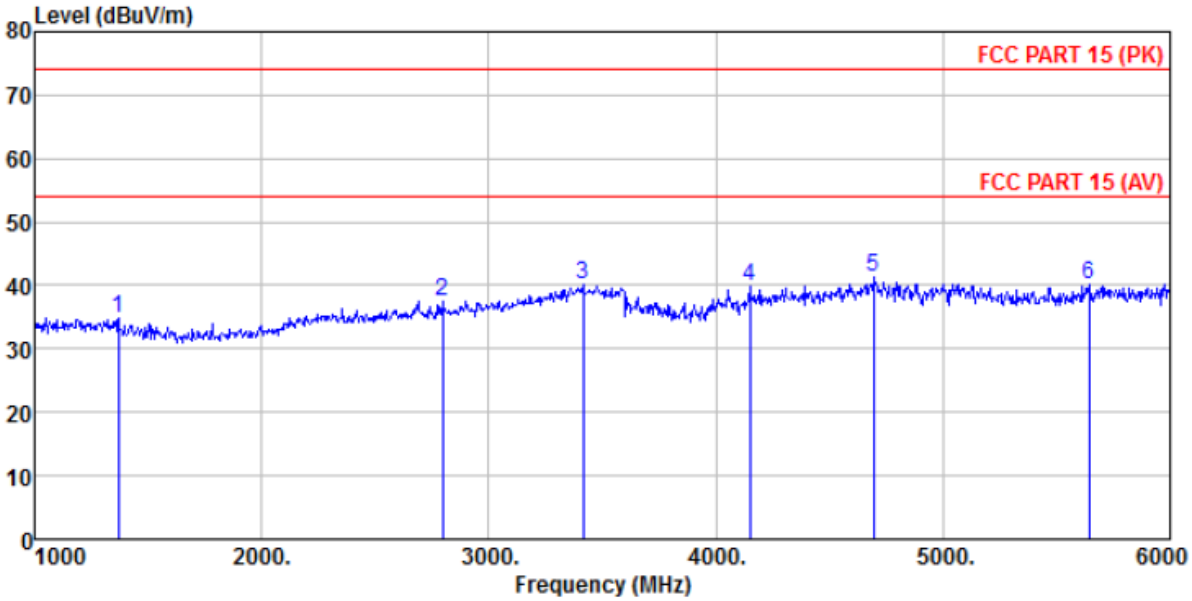
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m HORIZONTAL
Job No. : GTS201612000098
Test Mode : PC mode
Test Engineer: Sky

	Freq	ReadLevel	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1340.000	38.26	25.69	4.57	33.33	35.19	74.00	-38.81	Peak
2	2395.000	37.66	27.59	5.39	34.01	36.63	74.00	-37.37	Peak
3	3365.000	38.31	28.51	6.70	32.91	40.61	74.00	-33.39	Peak
4	4190.000	33.74	30.18	8.05	31.96	40.01	74.00	-33.99	Peak
5	4770.000	32.56	31.73	8.58	32.07	40.80	74.00	-33.20	Peak
6	5700.000	31.30	32.50	9.79	32.31	41.28	74.00	-32.72	Peak

Vertical:

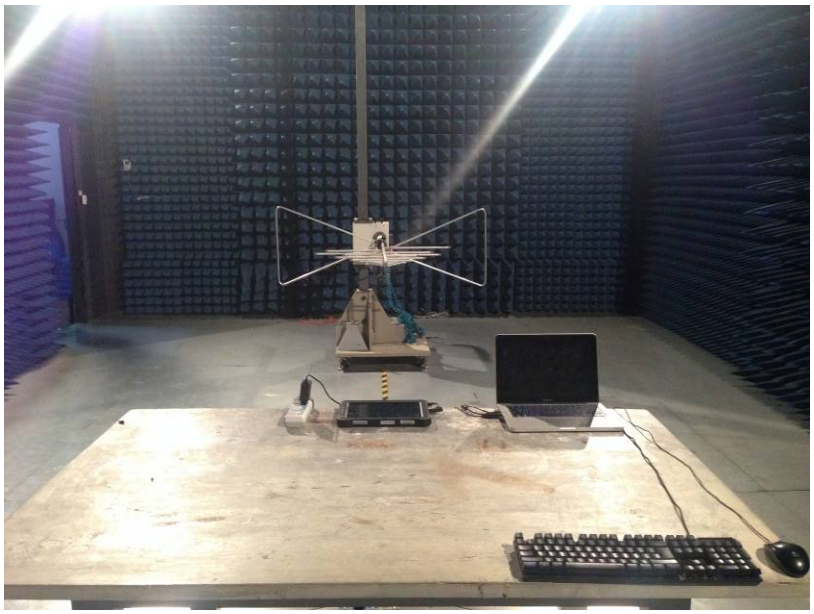


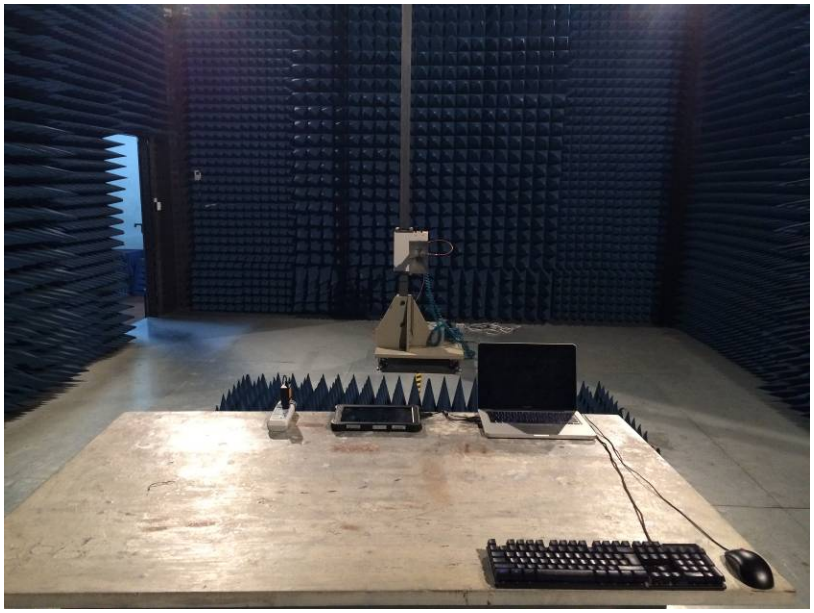
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m VERTICAL
Job No. : GTS201612000098
Test Mode : PC mode
Test Engineer: Sky

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1370.000	37.88	25.66	4.59	33.39	34.74	74.00	-39.26	Peak
2	2795.000	36.96	28.40	5.76	33.55	37.57	74.00	-36.43	Peak
3	3415.000	37.44	28.67	6.80	32.85	40.06	74.00	-33.94	Peak
4	4150.000	33.67	30.06	8.01	32.01	39.73	74.00	-34.27	Peak
5	4695.000	33.19	31.65	8.51	32.03	41.32	74.00	-32.68	Peak
6	5645.000	30.52	32.36	9.72	32.35	40.25	74.00	-33.75	Peak

8 Test Setup Photo

Radiated Emission





Conducted Emission

9 EUT Constructional Details

Reference to the test report No. GTS201612000098F01

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