Shenzhen EBO Technology Co., Ltd.

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TEST REPORT

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

Equipment Under Test (EUT)

Product Name:	9INCH TABLET
Brand Name:	VISUAL LAND
Model No.:	ME-9Q
FCC ID:	SI9PRESTIGE9Q

Applicable standards:	FCC CFR Title 47 Part 15 Subpart B:2013
Date of sample receipt:	July 3, 2014
Date of Test:	July 3, 2014 To July 10, 2014
Date of report issue:	July 10, 2014
Test Result :	PASS *

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

Authorized Signature:

Kevin Yu
Laboratory Manager

2 Version

Version No.	Date	Description
00	*July 10, 2014*	*Original*

Prepared By:  ***Date:*** *July 10, 2014*

Project Engineer

Check By:  ***Date:*** *July 10, 2014*

Reviewer

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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.

5 General Information

5.1 Client Information

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

5.2 General Description of EUT

Product Name:	9INCH TABLET
Brand Name:	VISUAL LAND
Model No.:	ME-9Q
Power supply:	Input: 100-240V, 50/60Hz, 0.35A Max Output:5V ⎓ 2000mA

5.3 Test mode

Test mode:	
Playing mode	Keep the EUT in Playing mode
Video Record mode	Keep the EUT in Video Recording mode
PC mode	Keep the EUT in exchanging data mode.

5.4 Test Facility

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

● **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

● **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 28, 2013.

● **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.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

5.6 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC Approval
HP	Printer	CB495A	05257893	DoC
Lenovo	PC Host	M6900	EA05257893	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	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	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2013	Mar. 28 2015
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	Dec. 5, 2013	Dec. 4 2014
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	July 01 2014	June 30 2015
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2014	Mar. 27 2015
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2014	Mar. 27 2015
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2014	Mar. 27 2015
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2014	Mar. 27 2015
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	July 01 2014	June 30 2015
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2014	Mar. 27 2015

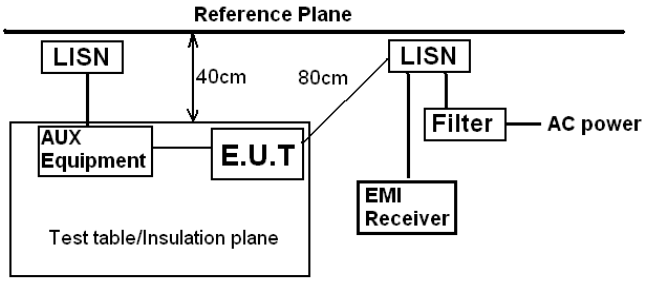
Conducted Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015

7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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 01 2014	June 30 2015

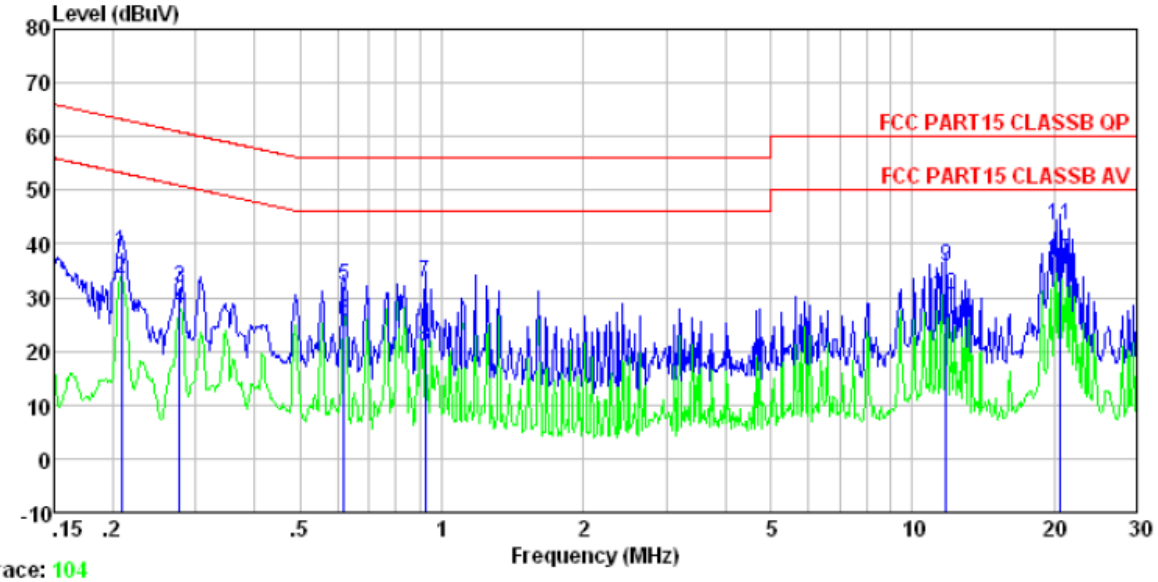
7 Test Results and Measurement Data

7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107
Test Method:	ANSI C63.4:2003
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: 2003 on conducted measurement.
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.3 for details. All of the listed modes were tested, PC mode is the worse case and reported.
Test results:	Pass

Measurement Data

Line:

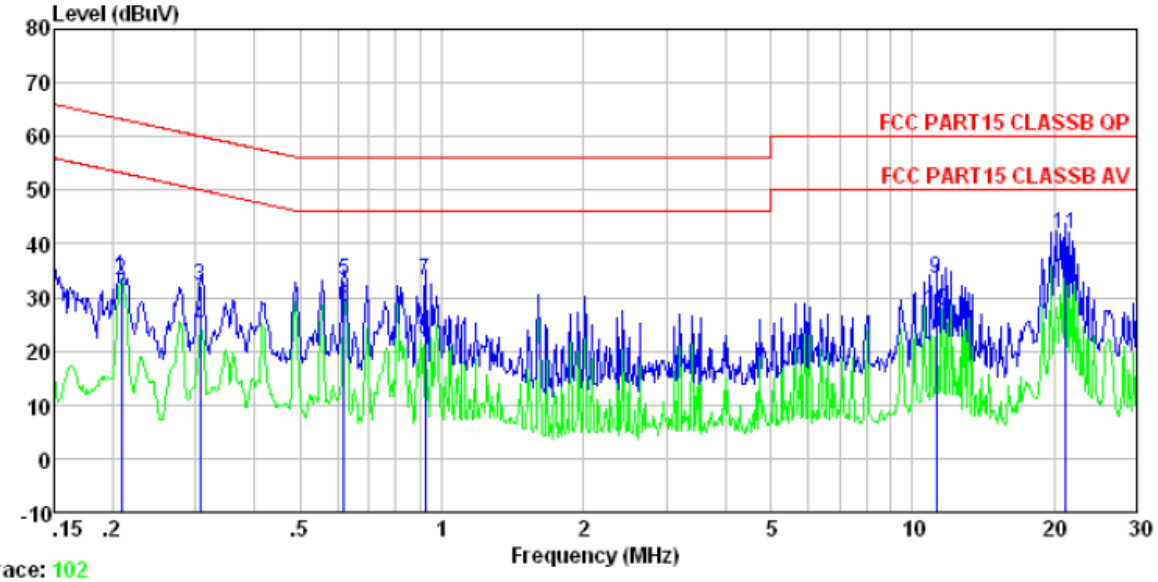


Trace: 104

Condition : FCC PART15 CLASSB QP LISN-2012 LINE
Test mode : PC mode
Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.208	38.75	-0.23	0.10	38.62	63.27	-24.65	QP
2	0.208	33.73	-0.23	0.10	33.60	53.27	-19.67	Average
3	0.277	31.84	-0.22	0.10	31.72	60.90	-29.18	QP
4	0.277	28.09	-0.22	0.10	27.97	50.90	-22.93	Average
5	0.621	32.27	-0.20	0.10	32.17	56.00	-23.83	QP
6	0.621	25.61	-0.20	0.10	25.51	46.00	-20.49	Average
7	0.923	32.90	-0.21	0.10	32.79	56.00	-23.21	QP
8	0.923	21.11	-0.21	0.10	21.00	46.00	-25.00	Average
9	11.807	35.99	-0.44	0.20	35.75	60.00	-24.25	QP
10	11.807	30.67	-0.44	0.20	30.43	50.00	-19.57	Average
11	20.594	43.99	-0.64	0.21	43.56	60.00	-16.44	QP
12	20.594	37.42	-0.64	0.21	36.99	50.00	-13.01	Average

Neutral:



Trace: 102

Condition : FCC PART15 CLASSB QP LISN-2012 NEUTRAL
Test mode : PC mode
Test Engineer: Qing

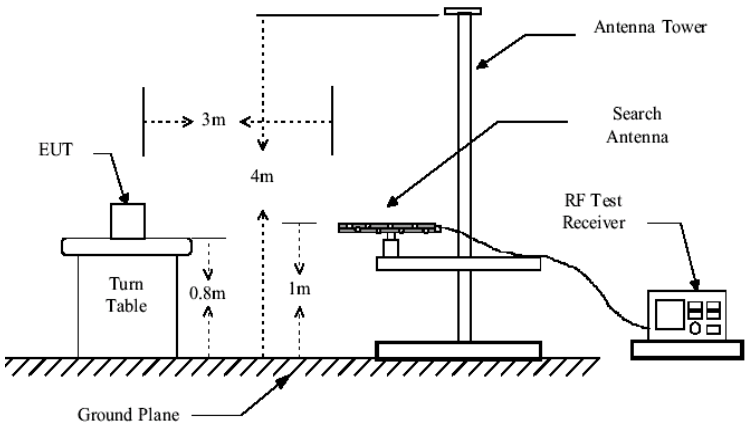
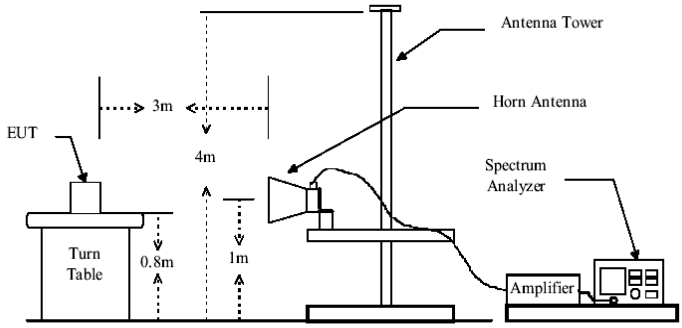
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.208	33.73	-0.09	0.10	33.74	63.27	-29.53	QP
2	0.208	33.14	-0.09	0.10	33.15	53.27	-20.12	Average
3	0.307	32.28	-0.09	0.10	32.29	60.06	-27.77	QP
4	0.307	24.49	-0.09	0.10	24.50	50.06	-25.56	Average
5	0.621	33.22	-0.08	0.10	33.24	56.00	-22.76	QP
6	0.621	28.32	-0.08	0.10	28.34	46.00	-17.66	Average
7	0.923	33.08	-0.09	0.10	33.09	56.00	-22.91	QP
8	0.923	22.15	-0.09	0.10	22.16	46.00	-23.84	Average
9	11.257	33.77	-0.31	0.20	33.66	60.00	-26.34	QP
10	11.257	27.52	-0.31	0.20	27.41	50.00	-22.59	Average
11	21.147	42.09	-0.55	0.21	41.75	60.00	-18.25	QP
12	21.147	33.55	-0.55	0.21	33.21	50.00	-16.79	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 C63.4:2003</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>
</table>

Test setup:	Below 1GHz  Above 1GHz 
Test environment:	Temp.: 25 °C Humid.: 52% Press.: 1 012mbar
Measurement Record:	Uncertainty: ± 4.5dB
Test Instruments:	Refer to section 6 for details
Test mode:	Refer to section 5.3 for details. All of the listed modes were tested, PC mode is the worse case and reported.
Test results:	Pass

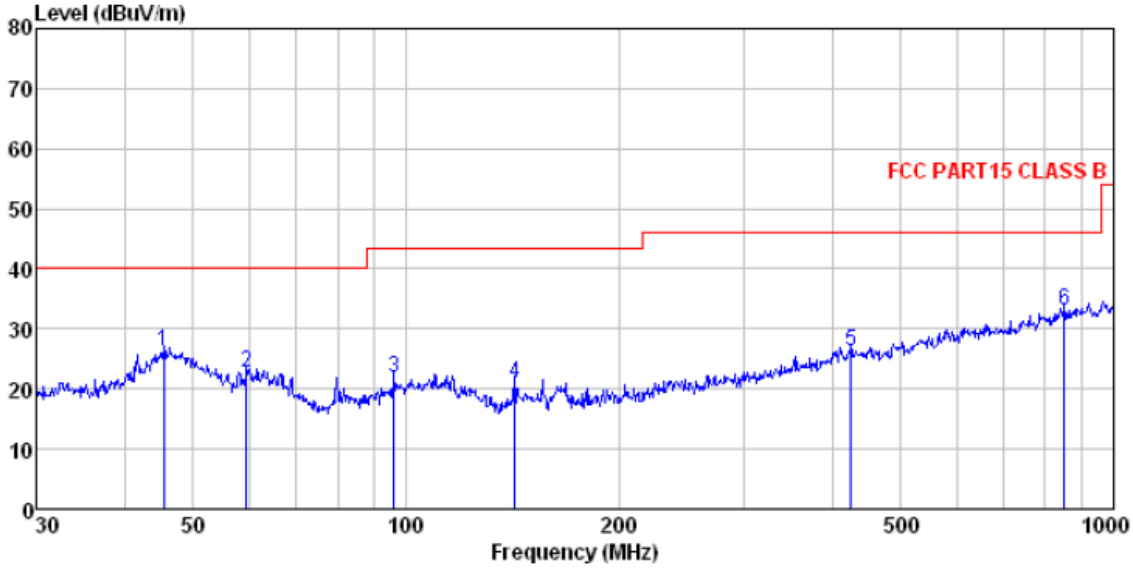
Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

Measurement Data

Below 1GHz

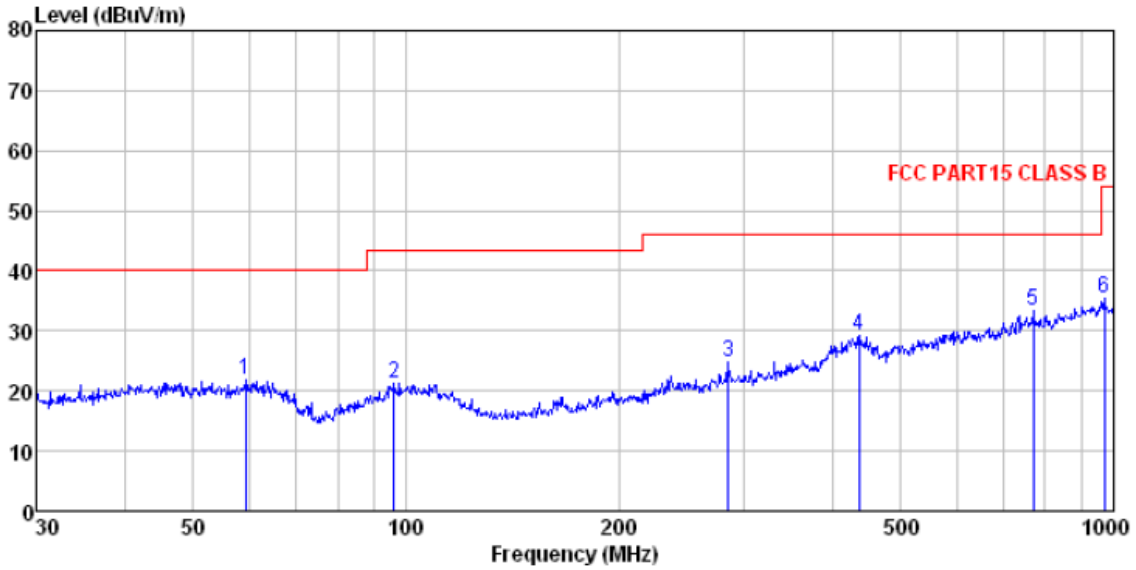
Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL
Test Mode : PC mode
Test Engineer: mike

	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	45.375	41.89	15.54	0.72	32.00	26.15	40.00	-13.85	QP
2	59.441	38.97	14.73	0.86	31.94	22.62	40.00	-17.38	QP
3	96.099	37.40	14.90	1.16	31.75	21.71	43.50	-21.79	QP
4	142.324	41.22	10.21	1.52	31.95	21.00	43.50	-22.50	QP
5	425.028	37.48	17.49	2.97	31.81	26.13	46.00	-19.87	QP
6	851.035	37.10	22.60	4.66	31.25	33.11	46.00	-12.89	QP

Vertical:

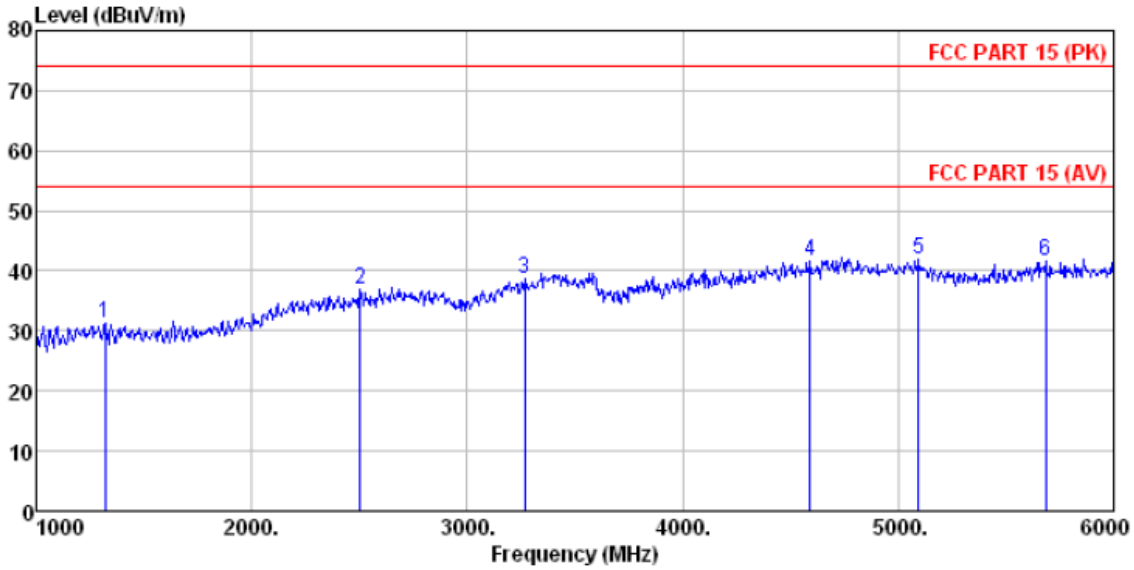


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL
Test Mode : PC mode
Test Engineer: mike

	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	59.232	38.23	14.74	0.85	31.94	21.88	40.00	-18.12	QP
2	96.099	37.05	14.90	1.16	31.75	21.36	43.50	-22.14	QP
3	284.977	40.07	14.75	2.29	32.17	24.94	46.00	-21.06	QP
4	437.120	40.28	17.55	3.03	31.76	29.10	46.00	-16.90	QP
5	768.748	38.52	21.68	4.35	31.28	33.27	46.00	-12.73	QP
6	968.934	37.89	23.55	5.11	31.22	35.33	54.00	-18.67	QP

Above 1GHz

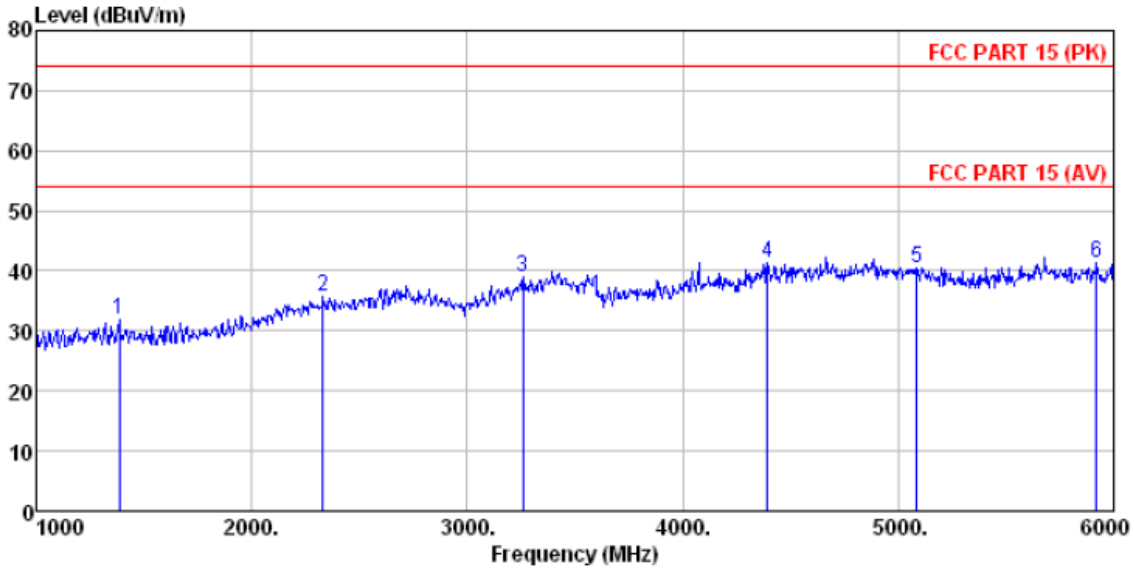
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
Test Mode : PC mode
Test Engineer: mike

	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	1320.000	34.28	25.66	4.56	33.30	31.20	74.00	-42.80	Peak
2	2505.000	37.69	27.56	5.49	33.88	36.86	74.00	-37.14	Peak
3	3265.000	36.74	28.44	6.49	33.02	38.65	74.00	-35.35	Peak
4	4590.000	33.62	31.49	8.41	31.98	41.54	74.00	-32.46	Peak
5	5095.000	33.08	32.03	8.90	32.23	41.78	74.00	-32.22	Peak
6	5685.000	31.55	32.47	9.77	32.31	41.48	74.00	-32.52	Peak

Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL
Test Mode : PC mode
Test Engineer: mike

	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	1385.000	35.19	25.62	4.61	33.42	32.00	74.00	-42.00	Peak
2	2330.000	36.57	27.80	5.32	34.09	35.60	74.00	-38.40	Peak
3	3260.000	36.95	28.49	6.49	33.02	38.91	74.00	-35.09	Peak
4	4395.000	33.79	31.05	8.24	31.89	41.19	74.00	-32.81	Peak
5	5085.000	31.85	32.02	8.90	32.22	40.55	74.00	-33.45	Peak
6	5920.000	30.50	32.78	10.09	32.18	41.19	74.00	-32.81	Peak

Remark:

1. The EUT was test at 3m in field chamber.

------ End------