

FCC Test Report

Product Name	Tablet PC
Model No.	EM10
FCC ID	2AEDY-EM10-N0

Applicant	Empathy Co., Ltd.
Address	KDX Nakameguro Bldg. 6F, 1-5-4, Higashiyama, Meguro-ku, Tokyo, 150-0043

Date of Receipt	March 16, 2015
Issued Date	Dec. 15, 2015
Report No.	1530316R-RFUSP17V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

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Applicant	Empathy Co., Ltd.
Address	KDX Nakameguro Bldg. 6F, 1-5-4, Higashiyama, Meguro-ku, Tokyo, 150-0043
Manufacturer	Empathy Co., Ltd.
Model No.	EM10
FCC ID	2AEDY-EM10-N0
EUT Rated Voltage	AC 100-240V, 50-60Hz
EUT Test Voltage	AC 120V, 60Hz
Trade Name	EMPATHY
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014
Test Result	Complied

Documented By

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Tested By

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Nick Chen

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Approved By

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Vincent Lin

(Director / Vincent Lin)

TABLE OF CONTENTS

Description	Page
1. GENERAL INFORMATION	4
1.1. EUT Description.....	4
1.2. Operational Description	5
1.3. Tested System Details.....	6
1.4. Configuration of tested System	6
1.5. EUT Exercise Software	7
1.6. Test Facility	8
2. Conducted Emission.....	9
2.1. Test Equipment.....	9
2.2. Test Setup	9
2.3. Limits	10
2.4. Test Procedure	10
2.5. Uncertainty	10
2.6. Test Result of Conducted Emission.....	11
3. Radiated Emission.....	13
3.1. Test Equipment.....	13
3.2. Test Setup	13
3.3. Limits	15
3.4. Test Procedure	16
3.5. Uncertainty	16
3.6. Test Result of Radiated Emission.....	17
4. Band Edge	20
4.1. Test Equipment.....	20
4.2. Test Setup	20
4.3. Limits	21
4.4. Test Procedure	21
4.5. Uncertainty	21
4.6. Test Result of Band Edge	22
5. Frequency Tolerance	24
5.1. Test Equipment.....	24
5.2. Test Setup	24
5.3. Limits	24
5.4. Test Procedure	24
5.5. Uncertainty	24
5.6. Test Result of Frequency Stability.....	25
6. EMI Reduction Method During Compliance Testing	27
Attachment 1: EUT Test Photographs	
Attachment 2: EUT Detailed Photographs	

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Tablet PC
Trade Name	EMPATHY
Model No.	EM10
FCC ID	2AEDY-EM10-N0
Frequency Range	13.56MHz
Modulation	ASK
Antenna Type	Loop Antenna
Power Cable	Shielded, 1.2m
Docking Station	MFR: EMPATHY, M/N: EMTX-CC01
Power Adapter	MFR: EMPATHY, M/N: ETSA150400U Input: AC 100-240V~, 50-60Hz, 1.5A Output: DC 15V, 4.0A Cable Out: Non-Shielded, 1.2m

Frequency of Each Channel:

Channel	Frequency
Channel 1:	13.56 MHz

Note:

1. This device is a Tablet PC with a built-in 13.56MHz transceiver.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.225
3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit mode
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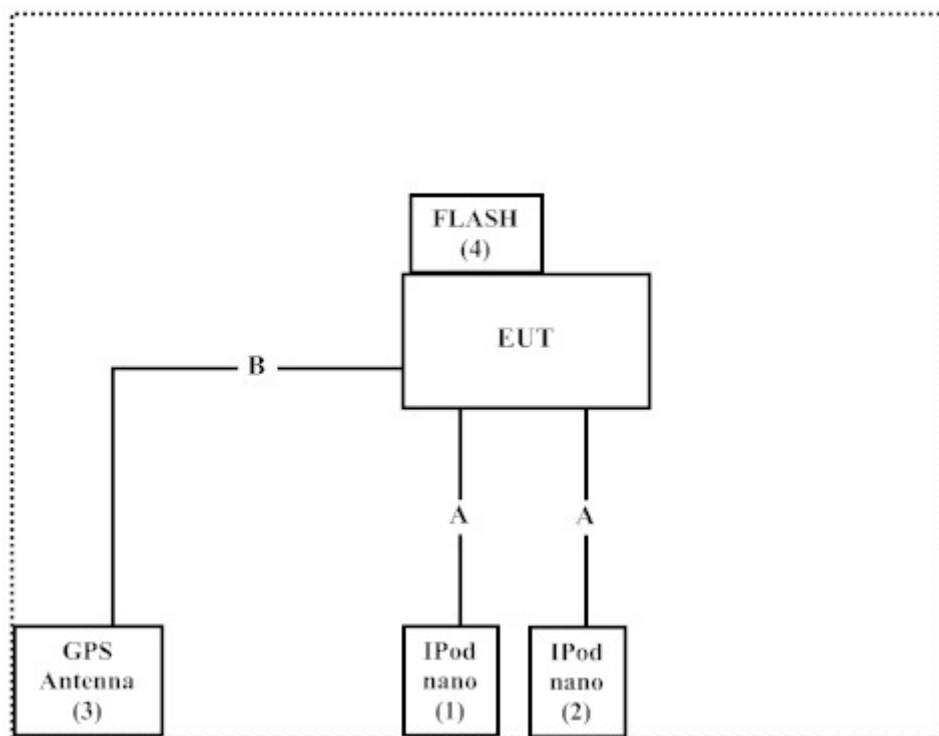
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 iPod nano	Apple	A1199	YM7333MHVQ5	N/A
2 iPod nano	Apple	A1199	YM7333SHVQ5	N/A
3 GPS Antenna	DSPR	GPS 316K-S6-06-A	N/A	N/A
4 FLASH	Transcend	JetFlash110	155422-2931	N/A

Signal Cable Type	Signal cable Description
A USB Cable	Shielded, 1.2m, two PCS.
B GPS Antenna Cable	Non-Shielded, 2.5m

1.4. Configuration of tested System



1.5. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4
2. Execute Software”emtx DIAQ” on the EUT.
3. Start the continuous transmitter.
4. Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site: <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site: <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,
Linkou Dist. New Taipei City 24451,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

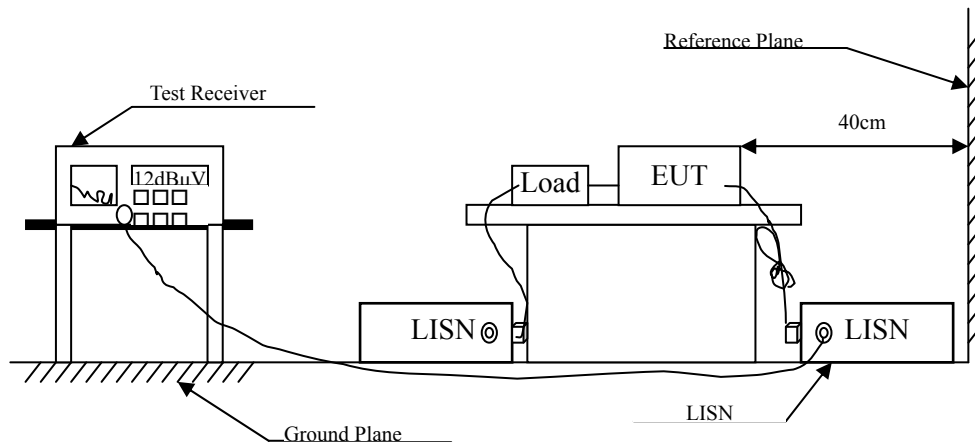
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2015	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2015	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2015	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2015	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 _(註)	56-46 _(註)
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /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 refers 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 C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Tablet PC
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V	dB	dB μ V
LINE 1					
Quasi-Peak					
0.224	9.670	44.120	53.790	-10.096	63.886
0.302	9.640	40.920	50.560	-11.097	61.657
0.338	9.640	37.310	46.950	-13.679	60.629
0.451	9.640	37.230	46.870	-10.530	57.400
0.505	9.640	33.110	42.750	-13.250	56.000
6.666	9.720	26.730	36.450	-23.550	60.000
Average					
0.224	9.670	34.310	43.980	-9.906	53.886
0.302	9.640	26.060	35.700	-15.957	51.657
0.338	9.640	31.700	41.340	-9.289	50.629
0.451	9.640	30.240	39.880	-7.520	47.400
0.505	9.640	28.080	37.720	-8.280	46.000
6.666	9.720	19.260	28.980	-21.020	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Tablet PC
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V	dB	dB μ V
LINE 2					
Quasi-Peak					
0.224	9.670	37.260	46.930	-16.956	63.886
0.298	9.646	35.600	45.246	-16.525	61.771
0.451	9.650	37.980	47.630	-9.770	57.400
0.525	9.650	32.420	42.070	-13.930	56.000
0.935	9.690	30.000	39.690	-16.310	56.000
1.427	9.690	28.680	38.370	-17.630	56.000
Average					
0.224	9.670	36.050	45.720	-8.166	53.886
0.298	9.646	24.940	34.586	-17.185	51.771
0.451	9.650	26.000	35.650	-11.750	47.400
0.525	9.650	24.840	34.490	-11.510	46.000
0.935	9.690	21.880	31.570	-14.430	46.000
1.427	9.690	23.890	33.580	-12.420	46.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Radiated Emission

3.1. Test Equipment

The following test equipments are used during the radiated emission test:

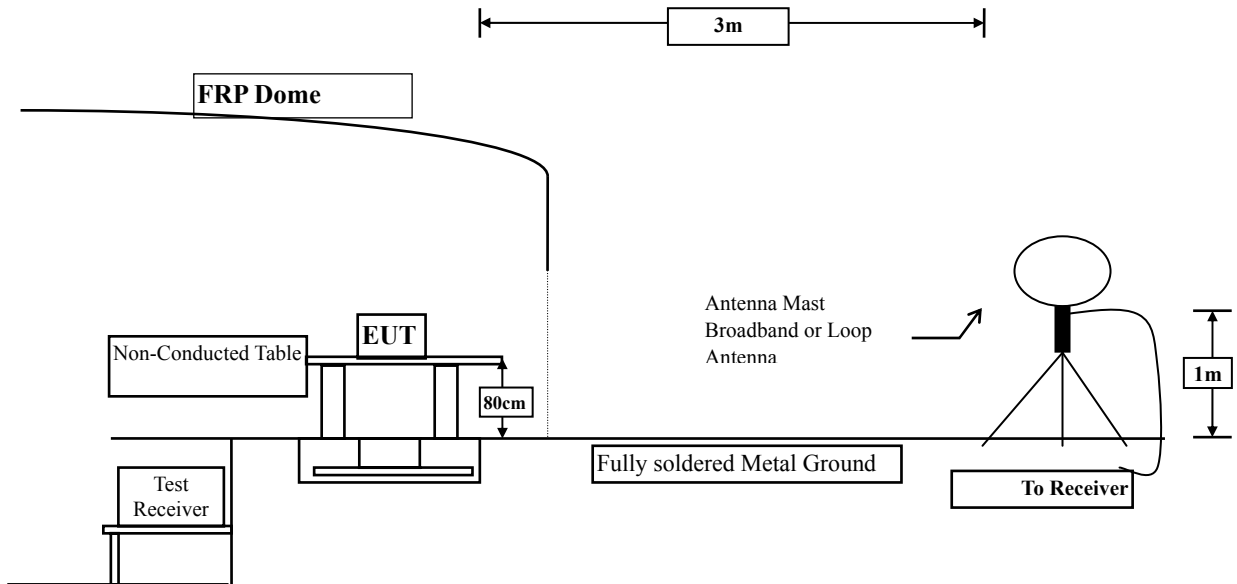
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun., 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun., 2015
	X	Coaxial Cable	QTK(Armist)	RG 214/ LC003-RG	Jun., 2015
	X	Coaxial signal switch	Armist	MP59B/ 6200798682	Jun., 2015

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2015
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2015
	X	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2015
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

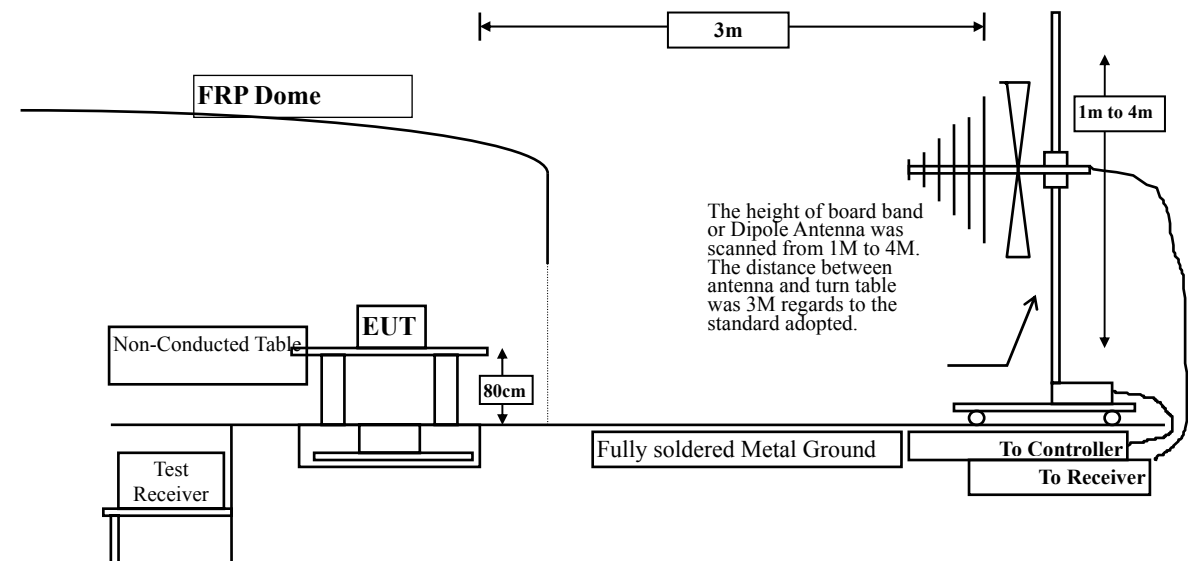
- Note:
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
 2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup

9kHz~30MHz



30MHz~1GHz



3.3. Limits

➤ Fundamental electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.225 Limits				
Fundamental Frequency MHz	Field strength of fundamental			
	uV/m	Distance (meter)	dBμV /m	Distance (meter)
13.553 – 13.567	15848	30	124	3
13.410 – 13.553 and 13.567 – 13.710	334	30	90.47	3
13.110 – 13.410 and 13.710 – 14.010	106	30	80.50	3
Outside of the 13.110 – 14.010	See 15.209 Limits			

- Remarks :
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

➤ Spurious electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.209 Limits			
Frequency MHz	uV/m	dBμV /m	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	See Remark ¹	300
0.490-1.705	24000/F(kHz)	See Remark ¹	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

- Remarks :
1. RF Voltage (dBμV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.4. Test Procedure

Fundamental electric field strength:

The EUT and its simulators are placed on a turn table which is 1 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

Spurious electric field strength:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C6310: 2013 on radiated measurement.

On any frequency the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

The frequency range from 9kHz to 10th harmonics is checked.

3.5. Uncertainty

± 2.6 dB below 30MHz

± 3.8 dB above 30MHz

3.6. Test Result of Radiated Emission

Product : Tablet PC
Test Item : Fundamental Radiated Emission
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit mode

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V /m	Margin dB	Limit dB μ V /m
Quasi-Peak					
Horizontal					
13.560	20.410	52.400	72.810	-51.190	124.000
Vertical					
13.560	20.410	51.200	71.610	-52.390	124.000

Note:

1. Limit=84dB μ V /m + 40*Log (30(m)/3(m))=124dB μ V /m
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. Measurement Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Product : Tablet PC
Test Item : General Radiated Emission Data (below 30MHz)
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V /m	dB	dB μ V /m
Horizontal					
27.120	19.950	12.590	32.540	-37.000	69.540
Vertical					
27.120	19.950	12.550	32.500	-37.040	69.540

Note:

1. Limit=29.54dB μ V /m + 40*Log (30(m)/3(m))=69.54dB μ V /m
2. All Readings below 1GHz are Quasi-Peak, above are average value.
3. “ ” means the worst emission level.
4. Measurement Level = Reading Level + Correct Factor.

Product : Tablet PC
Test Item : General Radiated Emission Data (above 30MHz)
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit mode

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V /m	dB	dB μ V /m
Horizontal					
QP Detector					
220.120	-1.550	35.186	33.636	-12.364	46.000
365.620	5.140	21.748	26.888	-19.112	46.000
530.520	9.980	13.287	23.267	-22.733	46.000
616.850	9.820	34.316	44.136	-1.864	46.000
790.480	11.180	17.459	28.639	-17.361	46.000
901.060	11.130	20.916	32.046	-13.954	46.000
Vertical					
QP Detector					
99.840	4.170	28.944	33.114	-10.386	43.500
311.300	3.360	30.918	34.278	-11.722	46.000
505.300	9.570	34.791	44.361	-1.639	46.000
602.300	9.200	33.426	42.626	-3.374	46.000
800.180	11.270	22.172	33.442	-12.558	46.000
934.040	12.480	18.856	31.336	-14.664	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

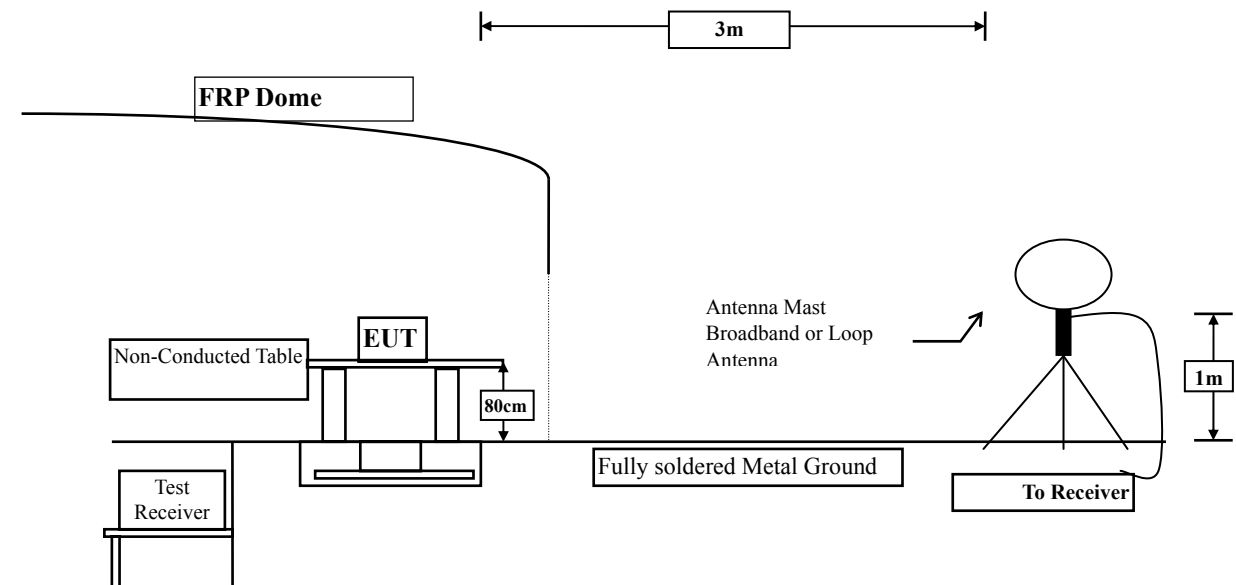
4. Band Edge

4.1. Test Equipment

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep., 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun., 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun., 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun., 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup



4.3. Limits

In any 9 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 50 dB below that in the 9 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth below 30MHz setting on the field strength meter is 9kHz and above 30MHz is 120kHz.

4.5. Uncertainty

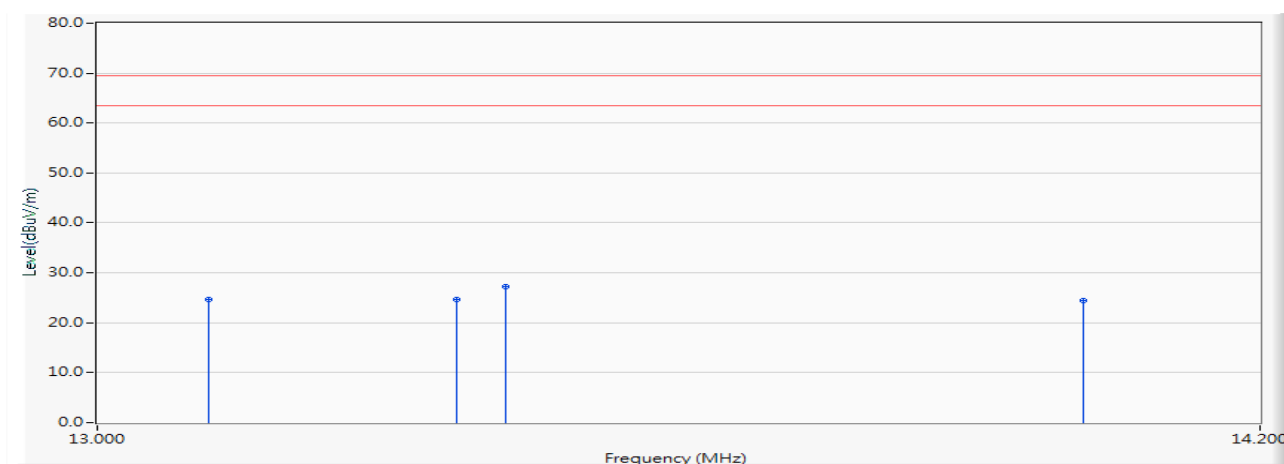
Radiated is ± 2.6 dB

4.6. Test Result of Band Edge

Product : Tablet PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

RF Radiated Measurement

Horizontal



Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV /m)	QP Limit (dBμV /m)	Result
13.110	20.430	4.200	24.630	69.540	Pass
13.360	20.420	4.200	24.620	69.540	Pass
13.410	20.420	6.900	27.320	69.540	Pass
14.010	20.400	4.100	24.500	69.540	Pass

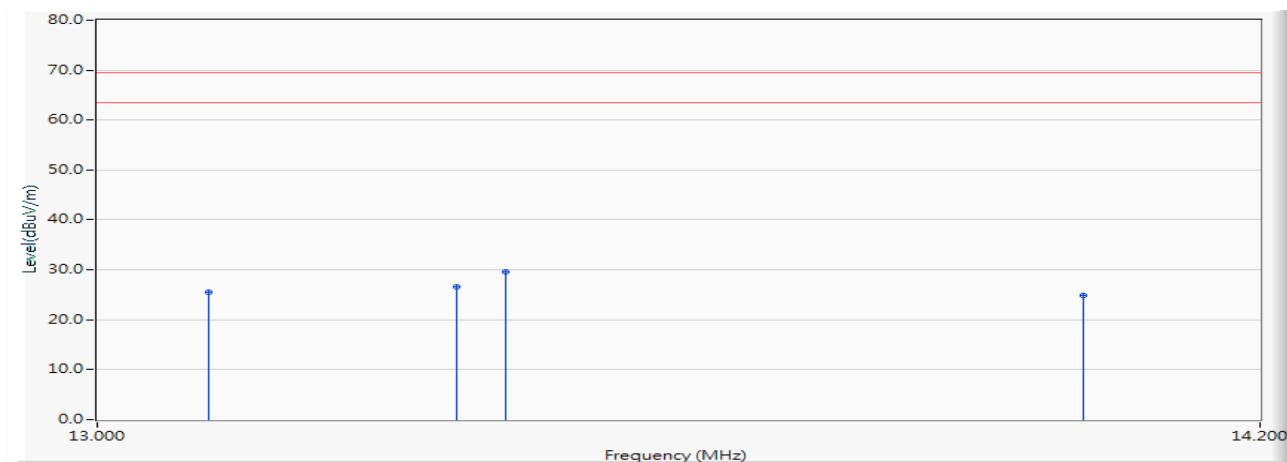
Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 69.54dBμV/m is the radiated emission limits specified in Section 15.209.

$$\text{Limit} = 29.54\text{dB } \mu\text{V/m} + 40 * \text{Log} (30(\text{m})/3(\text{m})) = 69.54\text{dB } \mu\text{V/m}.$$

Product : Tablet PC
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit mode

Vertical



Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV /m)	QP Limit (dBμV /m)	Result
13.110	20.430	5.200	25.630	69.540	Pass
13.360	20.420	6.100	26.520	69.540	Pass
13.410	20.420	9.100	29.520	69.540	Pass
14.010	20.400	4.500	24.900	69.540	Pass

Note:

1. All Readings below 1GHz are Quasi-Peak, above are average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.
4. 69.54dBμV/m is the radiated emission limits specified in Section 15.209.

$$\text{Limit} = 29.54\text{dB } \mu\text{V /m} + 40 * \text{Log} (30\text{(m)}/3\text{(m)}) = 69.54\text{dB } \mu\text{V /m}.$$

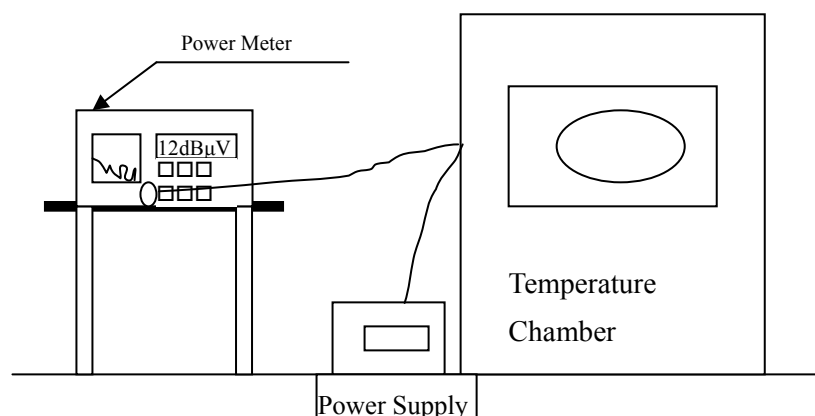
5. Frequency Tolerance

5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015
X	Temperature Chamber	TDE	CHM 150CT	March, 2015

Note: All equipments are calibrated every one year.

5.2. Test Setup



5.3. Limits

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency.

5.4. Test Procedure

The over operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.5. Uncertainty

± 150 Hz

5.6. Test Result of Frequency Stability

Product : Tablet PC
 Test Item : Frequency Tolerance
 Test Site : Temperature Chamber
 Test Mode : Mode 1: Transmit mode

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency (MHz)	Read Frequency (MHz)	Tolerance (%)	Limit (%)
20	120	start	13.56	13.56011	0.000781	± 0.01 %
		2mins	13.56	13.56011	0.000781	
		5mins	13.56	13.56011	0.000781	
		10mins	13.56	13.56011	0.000781	
20	138	start	13.56	13.56003	0.000234	± 0.01 %
		2mins	13.56	13.56003	0.000234	
		5mins	13.56	13.56003	0.000234	
		10mins	13.56	13.56003	0.000234	
20	102	start	13.56	13.56007	0.000481	± 0.01 %
		2mins	13.56	13.56007	0.000481	
		5mins	13.56	13.56007	0.000481	
		10mins	13.56	13.56007	0.000481	
50	120	start	13.56	13.56003	0.000194	± 0.01 %
		2mins	13.56	13.56003	0.000194	
		5mins	13.56	13.56003	0.000194	
		10mins	13.56	13.56003	0.000194	
40	120	start	13.56	13.56005	0.000342	± 0.01 %
		2mins	13.56	13.56005	0.000342	
		5mins	13.56	13.56005	0.000342	
		10mins	13.56	13.56005	0.000342	
30	120	start	13.56	13.56001	0.000049	± 0.01 %
		2mins	13.56	13.56001	0.000049	
		5mins	13.56	13.56001	0.000049	
		10mins	13.56	13.56001	0.000049	

10	120	start	13.56	13.56008	0.000603	± 0.01 %
		2mins	13.56	13.56008	0.000603	
		5mins	13.56	13.56008	0.000603	
		10mins	13.56	13.56008	0.000603	
0	120	start	13.56	13.56001	0.000091	± 0.01 %
		2mins	13.56	13.56001	0.000091	
		5mins	13.56	13.56001	0.000091	
		10mins	13.56	13.56001	0.000091	
-10	120	start	13.56	13.56005	0.000374	± 0.01 %
		2mins	13.56	13.56005	0.000374	
		5mins	13.56	13.56005	0.000374	
		10mins	13.56	13.56005	0.000374	
-20	120	start	13.56	13.56001	0.000077	± 0.01 %
		2mins	13.56	13.56001	0.000077	
		5mins	13.56	13.56001	0.000077	
		10mins	13.56	13.56001	0.000077	

6. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs