

Report No.: SHEM200700615603

Page: 1 of 61

TEST REPORT

 Application No.:
 SHEM2007006156CR

 FCC ID:
 2AP42-WH12018

 IC:
 24006-WH12018

Applicant: WWZN Information Technology Company Limited

Address of Applicant: Room -101, B1 Floor, Building 1, No.42, Gaolianggiao Xiejie, Haidian

District, Beijing, China

Manufacturer: WWZN Information Technology Company Limited

Address of Manufacturer: Room -101, B1 Floor, Building 1, No.42, Gaoliangqiao Xiejie, Haidian

District, Beijing, China

Factory: Luxshare Electronic Technology(Kunshan) Co.,Ltd.

Address of Factory: Kunshan City, Jiangsu, China

Equipment Under Test (EUT):

EUT Name: Smart watch
Model No.: WH12018
Trade mark: Mobvoi

Standard(s): 47 CFR Part 15, Subpart C 15.247

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5, March 2019 Amendment 1

Date of Receipt: 2020-07-23

Date of Test: 2020-07-28 to 2020-08-10

Date of Issue: 2020-08-11

Test Result: Pass*

parlan 2han

Parlam Zhan E&E Section Manager

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



Report No.: SHEM200700615603 Page: 2 of 61

Revision Record								
Version Description Date Remark								
00	Original	2020-08-11	1					

Authorized for issue by:	
	Bril Wu
	Bill Wu / Project Engineer
	Darlam zhan
	Parlam Zhan / Reviewer



Report No.: SHEM200700615603 Page: 3 of 61

Test Summary

Radio Spectrum Technical Requirement						
Item	FCC Requirement	IC Requirement	Method	Result		
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration		

N/A: Not applicable

Radio Spectrum Matter Part						
Item	FCC Requirement	IC Requirement	Method	Result		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass		
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass		
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass		



Report No.: SHEM200700615603

Page: 4 of 61

3 Contents

		Page
1	COVER PAGE	1
2	TEST SUMMARY	3
3	CONTENTS	4
4	GENERAL INFORMATION	5
4.	1 DETAILS OF E.U.T.	5
4.2		
4.3		
4.4	4 MEASUREMENT UNCERTAINTY	6
4.	5 TEST LOCATION	7
4.0		
4.		
4.8	8 ABNORMALITIES FROM STANDARD CONDITIONS	7
5	EQUIPMENT LIST	8
6	RADIO SPECTRUM TECHNICAL REQUIREMENT	9
6.	1 ANTENNA REQUIREMENT	9
7	RADIO SPECTRUM MATTER TEST RESULTS	10
7.	1 MINIMUM 6DB BANDWIDTH	10
7.2		
7.3	3 POWER SPECTRUM DENSITY	12
7.4	4 CONDUCTED BAND EDGES MEASUREMENT	13
7.	5 CONDUCTED SPURIOUS EMISSIONS	14
7.0		
7.		
7.8	8 99% BANDWIDTH	60
8	TEST SETUP PHOTOGRAPHS	61
9	EUT CONSTRUCTIONAL DETAILS	61
-		



Report No.: SHEM200700615603

Page: 5 of 61

4 General Information

4.1 Details of E.U.T.

Power supply: Rechargeable Li-ion Battery(DC 3.8V 577mAh)

Test voltage: DC 3.8V

Cable: DC charging cable 1m

Antenna Gain: -2.7dBi

Antenna Type: FPC Antenna

Channel Spacing: 5MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK)

802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

Hardware version: DVT2

Software version: Rubyfish-userdebug 9 nightly-200713 126 dev-keys

S/N: A101X06230001 Firmware Version: PYDA.200427.018

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Laptop	Lenovo	ThinkPad X100e	/	
Serial port adapter plate	/	Test Plate 3	/	

4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)
1	20	18	18
6	20	18	18
11	20	18	18



Report No.: SHEM200700615603

Page: 6 of 61

4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	8.4 x 10 ⁻⁸		
2	Timeout	2s		
3	Duty Cycle	0.37%		
4	Occupied Bandwidth	3%		
5	RF Conducted Power	0.6dB		
6	RF Power Density	2.9dB		
7	Conducted Spurious Emissions	0.75dB		
0	DE Dadiated Davier	5.1dB (Below 1GHz)		
8	RF Radiated Power	4.9dB (Above 1GHz)		
		4.2dB (Below 30MHz)		
0	Dadieted Churieus Emissies Test	4.5dB (30MHz-1GHz)		
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)		
		5.4dB (Above 18GHz)		
10	Temperature Test	1°C		
11	Humidity Test	3%		
12	Supply Voltages	1.5%		
13	Time	3%		

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Report No.: SHEM200700615603

Page: 7 of 61

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 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.

• NVLAP (LAB CODE: 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

• FCC (Designation Number: CN5033)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



Report No.: SHEM200700615603 Page: 8 of 61

Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2019-08-13	2020-08-12
Signal Generator	R&S	SMR20	SHEM006-1	2019-08-13	2020-08-12
Signal Generator	Agilent	N5182A	SHEM182-1	2019-08-13	2020-08-12
Communication Tester	R&S	CMW270	SHEM183-1	2019-08-13	2020-08-12
Switcher	Tonscend	JS0806	SHEM184-1	2019-08-13	2020-08-12
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2019-08-13	2020-08-12
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-25	2020-09-24
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2019-12-20	2020-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2019-12-20	2020-12-19
Conducted test Cable	/	RF01~RF04	/	2019-12-20	2020-12-19
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2019-12-20	2020-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2019-12-20	2020-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2019-12-20	2020-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2019-10-14	2021-10-13
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2019-04-30	2021-04-29
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2019-10-14	2021-10-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-10-31	2020-10-30
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001	SHEM164-1	2019-08-13	2020-08-12
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118	SHEM050-2	2019-08-13	2020-08-12
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2019-12-20	2020-12-19
Signal Generator	R&S	SMR40	SHEM058-1	2019-08-13	2020-08-12
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	/	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	/	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	/	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2019-12-20	2020-12-19



Report No.: SHEM200700615603

Page: 9 of 61

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is FPC antenna and no consideration of replacement. The best case gain of the antenna is -2.7dBi.

Antenna location: Refer to Appendix (Internal Photos)



Report No.: SHEM200700615603

Page: 10 of 61

7 **Radio Spectrum Matter Test Results**

7.1 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) ANSI C63.10 (2013) Section 11.8.1 Test Method:

Limit: ≥500 kHz

7.1.1 E.U.T. Operation

Operating Environment:

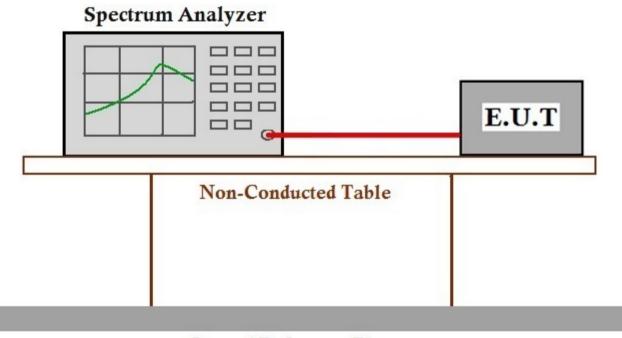
Humidity: 50 % RH Temperature: 22 °C Atmospheric Pressure: 1002 mbar

d:TX mode_Keep the EUT in continuously transmitting mode with all modulation Test mode

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM200700615603



Report No.: SHEM200700615603

Page: 11 of 61

7.2 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)
Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)			
	1 for ≥50 hopping channels			
902-928	0.25 for 25≤ hopping channels <50			
	1 for digital modulation			
	1 for ≥75 non-overlapping hopping channels			
2400-2483.5	0.125 for all other frequency hopping systems			
	1 for digital modulation			
5725-5850	1 for frequency hopping systems and digital modulation			

7.2.1 E.U.T. Operation

Operating Environment:

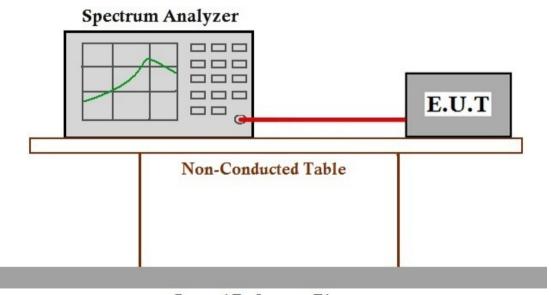
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode d:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM200700615603

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Report No.: SHEM200700615603

Page: 12 of 61

7.3 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.3

Limit: ≤8dBm in any 3 kHz band during any time interval of continuous

transmission

7.3.1 E.U.T. Operation

Operating Environment:

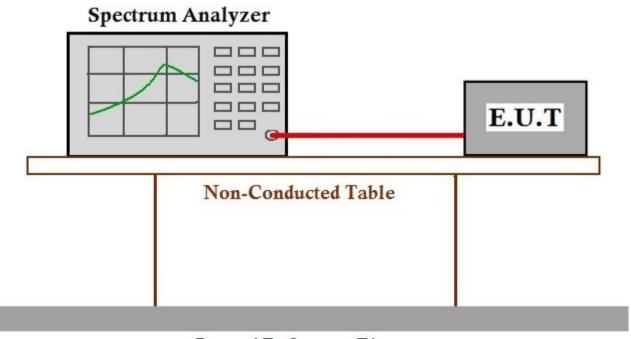
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode d:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM200700615603



Report No.: SHEM200700615603

Page: 13 of 61

7.4 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.13.3.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

7.4.1 E.U.T. Operation

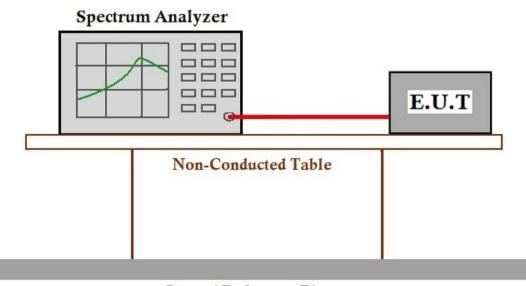
Operating Environment:

22 Temperature: Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode

d:TX mode Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM200700615603

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Report No.: SHEM200700615603

Page: 14 of 61

7.5 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
Test Method: ANSI C63.10 (2013) Section 11.11

Limit: In any 100 kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in

§15.205(a), must also comply with the radiated emission limits specified in

§15.209(a) (see §15.205(c)

7.5.1 E.U.T. Operation

Operating Environment:

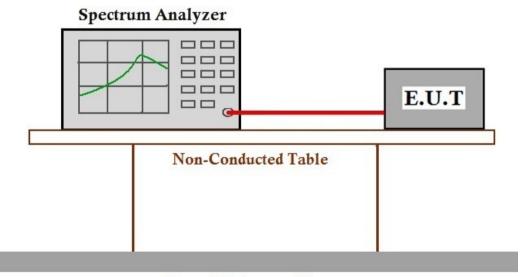
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode d:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM200700615603

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Report No.: SHEM200700615603

Page: 15 of 61

7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.10.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



Report No.: SHEM200700615603

Page: 16 of 61

7.6.1 E.U.T. Operation

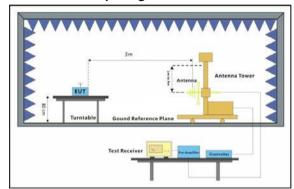
Operating Environment:

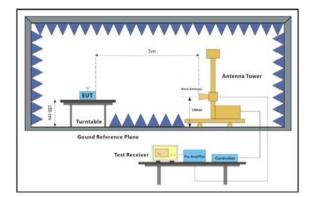
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

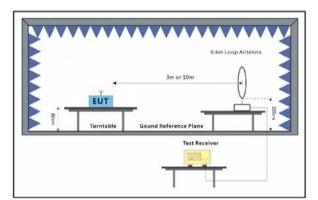
Test mode

d:TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20). Only the data of worst case is recorded in the report.

7.6.2 Test Setup Diagram









Report No.: SHEM200700615603

Page: 17 of 61

7.6.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

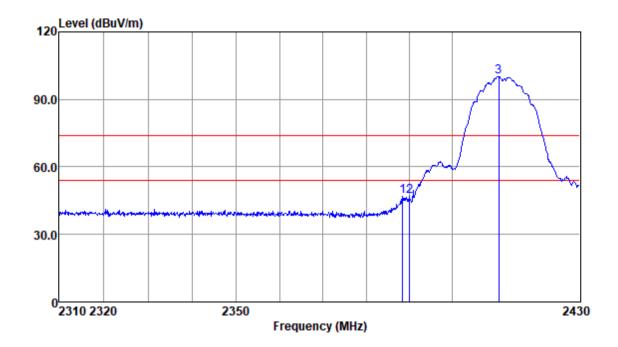
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



Report No.: SHEM200700615603 Page: 18 of 61

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



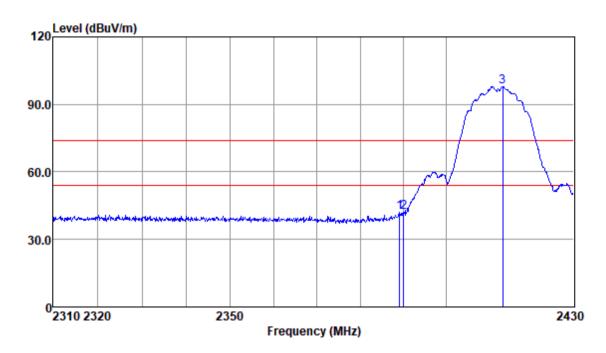
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.40	52.39	28.97	3.15	37.40	47.11	74.00	-26.89	Peak
2390.00	52.37	28.97	3.15	37.40	47.09	74.00	-26.91	Peak
2410.88	105.50	29.00	3.13	37.43	100.20	74.00	26.20	Peak



Report No.: SHEM200700615603 Page: 19 of 61

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



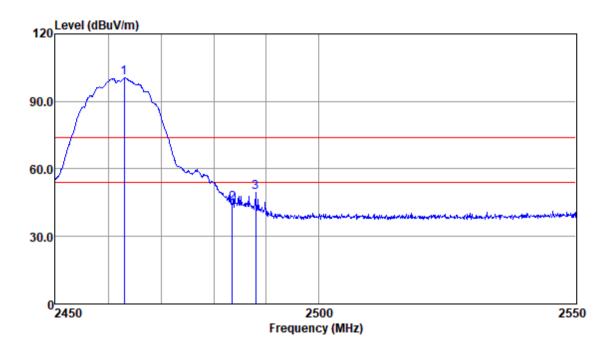
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.12	47.21	28.97	3.15	37.40	41.93	74.00	-32.07	Peak
2390.00	47.20	28.97	3.15	37.40	41.92	74.00	-32.08	Peak
2413.20	103.13	29.02	3.13	37.43	97.85	74.00	23.85	Peak



Report No.: SHEM200700615603 Page: 20 of 61

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



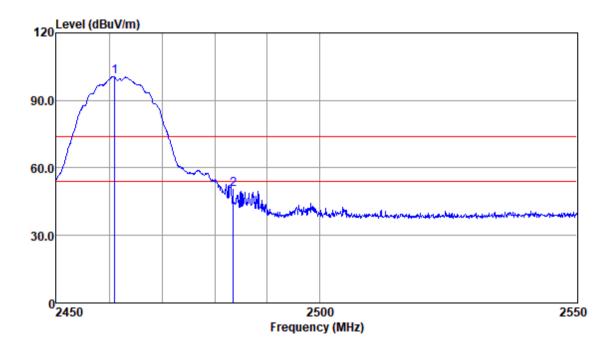
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2462.97	105.78	29.07	3.13	37.53	100.45	74.00	26.45	Peak
2483.50	50.26	29.11	3.14	37.57	44.94	74.00	-29.06	Peak
2488.03	55.02	29.11	3.14	37,60	49.67	74.00	-24.33	Peak



Report No.: SHEM200700615603 Page: 21 of 61

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



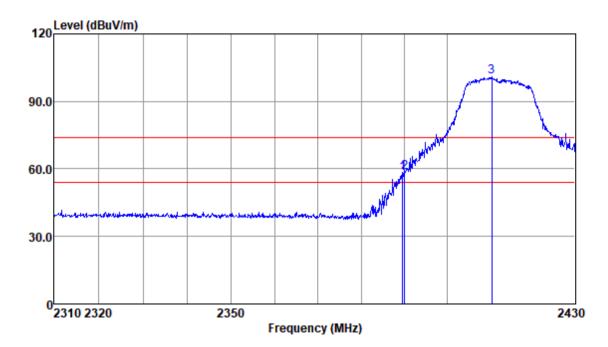
Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2461.00	105.83	29.07	3.13	37.53	100.50	74.00	26.50	Peak
2483.50	55.97	29.11	3.14	37.57	50.65	74.00	-23.35	Peak



Report No.: SHEM200700615603 Page: 22 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



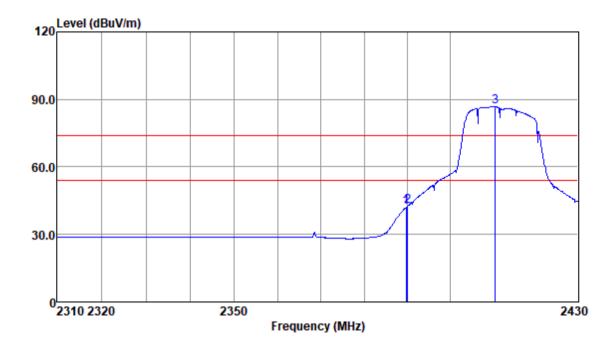
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	63.21	28.97	3.15	37.40	57.93	74.00	-16.07	Peak
2390.00	63.61	28.97	3.15	37.40	58.33	74.00	-15.67	Peak
2410.39	106.30	29.00	3.13	37.43	101.00	74.00	27.00	Peak



Report No.: SHEM200700615603 Page: 23 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



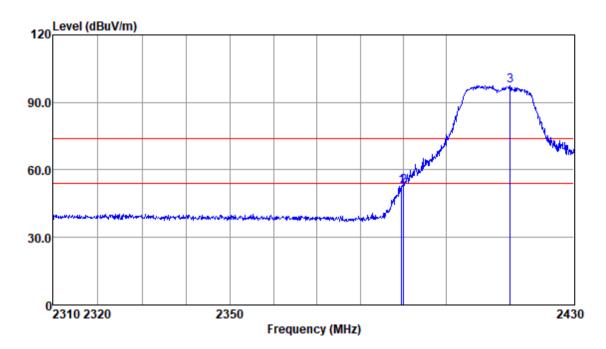
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.73	47.38	28.97	3.15	37.40	42.10	54.00	-11.90	Average
2390.00	47.80	28.97	3.15	37.40	42.52	54.00	-11.48	Average
2410.51	92.03	29.00	3.13	37.43	86.73	54.00	32.73	Average



Report No.: SHEM200700615603 Page: 24 of 61

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



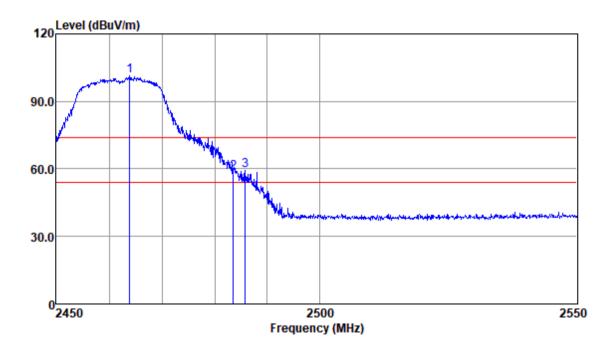
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	58.07	28.97	3.15	37.40	52.79	74.00	-21.21	Peak
2390.00	58.12	28.97	3.15	37.40	52.84	74.00	-21.16	Peak
2414.91	102.70	29.02	3.13	37.43	97.42	74.00	23.42	Peak



Report No.: SHEM200700615603 Page: 25 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



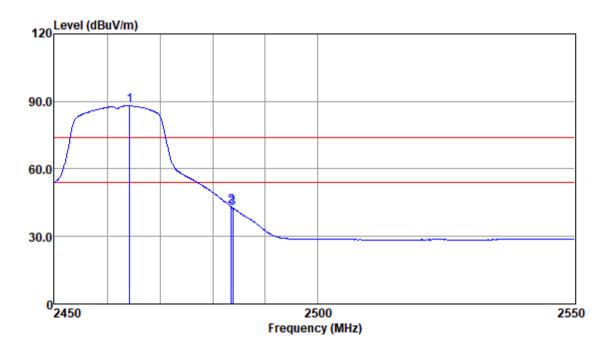
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.86	106.80	29.07	3.13	37.53	101.47	74.00	27.47	Peak
2483.50	63.98	29.11	3.14	37.57	58.66	74.00	-15.34	Peak
2485.84	64.70	29.11	3.14	37.57	59.38	74.00	-14.62	Peak



Report No.: SHEM200700615603 Page: 26 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

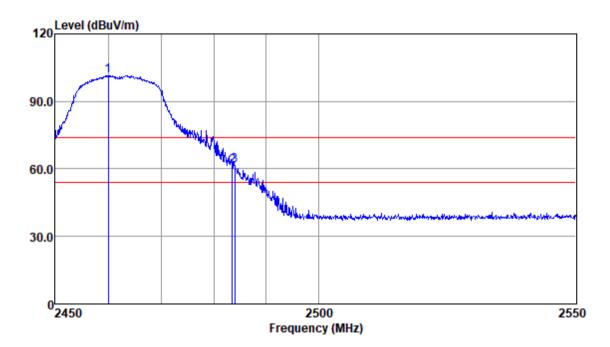
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2464.25	93.39	29.07	3.13	37.53	88.06	54.00	34.06	Average
2483.50	48.58	29.11	3.14	37.57	43.26	54.00	-10.74	Average
2483.85	47.90	29.11	3.14	37.57	42.58	54.00	-11.42	Average



Report No.: SHEM200700615603

Page: 27 of 61

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



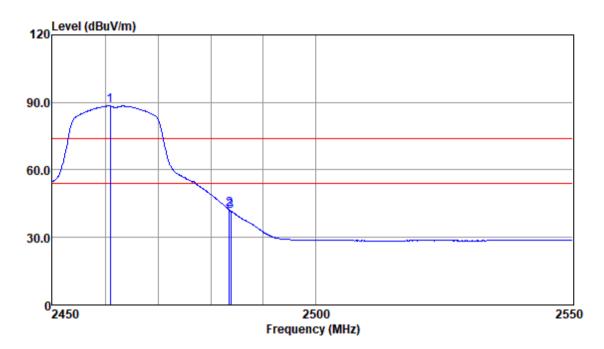
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.02	106.89	29.07	3.13	37.53	101.56	74.00	27.56	Peak
2483.50	66.26	29.11	3.14	37.57	60.94	74.00	-13.06	Peak
2484.05	67.05	29.11	3.14	37.57	61.73	74.00	-12.27	Peak



Report No.: SHEM200700615603 Page: 28 of 61

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



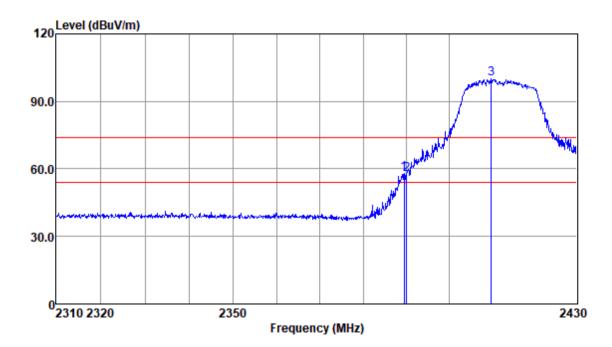
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.90	93.76	29.07	3.13	37.53	88.43	54.00	34.43	Average
2483.50	47.73	29.11	3.14	37.57	42.41	54.00	-11.59	Average
2483.85	47.08	29.11	3.14	37.57	41.76	54.00	-12.24	Average



Report No.: SHEM200700615603 Page: 29 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



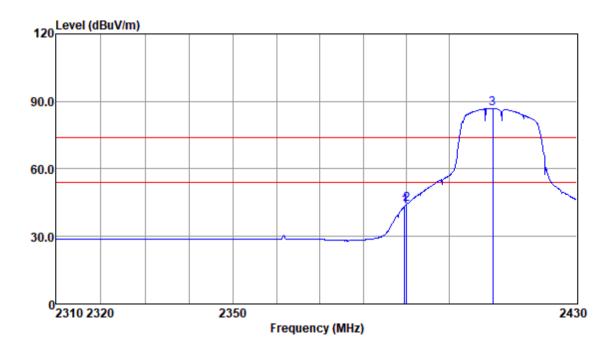
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.48	63.28	28.97	3.15	37.40	58.00	74.00	-16.00	Peak
2390.00	62.88	28.97	3.15	37.40	57.60	74.00	-16.40	Peak
2409.78	105.23	29.00	3.13	37.43	99.93	74.00	25.93	Peak



Report No.: SHEM200700615603 Page: 30 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



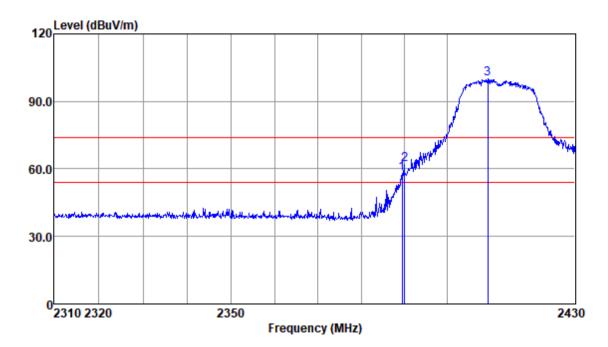
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	48.72	28.97	3.15	37.40	43.44	54.00	-10.56	Average
2390.00	49.35	28.97	3.15	37.40	44.07	54.00	-9.93	Average
2410.15	92.23	29.00	3.13	37.43	86.93	54.00	32.93	Average



Report No.: SHEM200700615603 Page: 31 of 61

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



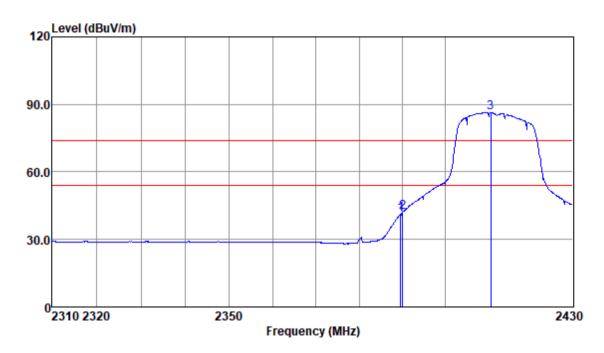
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.48	63.11	28.97	3.15	37.40	57.83	74.00	-16.17	Peak
2390.00	67.25	28.97	3.15	37.40	61.97	74.00	-12.03	Peak
2409.41	105.16	29.00	3.13	37.43	99.86	74.00	25.86	Peak



Report No.: SHEM200700615603 Page: 32 of 61

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



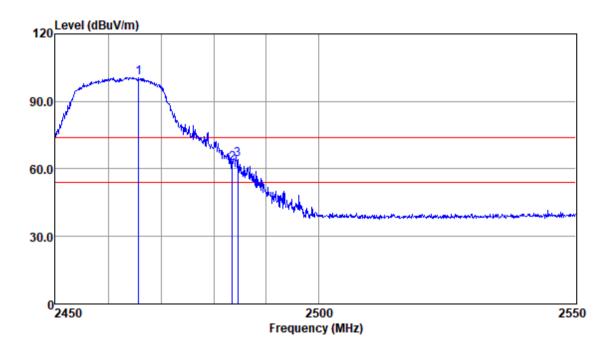
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2389.61	46.61	28.97	3.15	37.40	41.33	54.00	-12.67	Average
2390.00	47.26	28.97	3.15	37.40	41.98	54.00	-12.02	Average
2410.63	91.68	29.00	3.13	37.43	86.38	54.00	32.38	Average



Report No.: SHEM200700615603 Page: 33 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



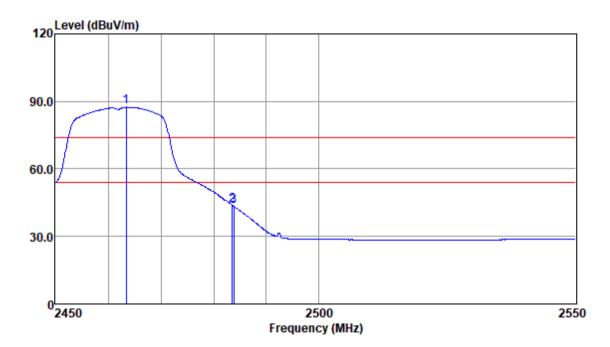
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.73	105.99	29.07	3.13	37.53	100.66	74.00	26.66	Peak
2483.50	67.58	29.11	3.14	37.57	62.26	74.00	-11.74	Peak
2484.55	69.47	29.11	3.14	37.57	64.15	74.00	-9.85	Peak



Report No.: SHEM200700615603 Page: 34 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



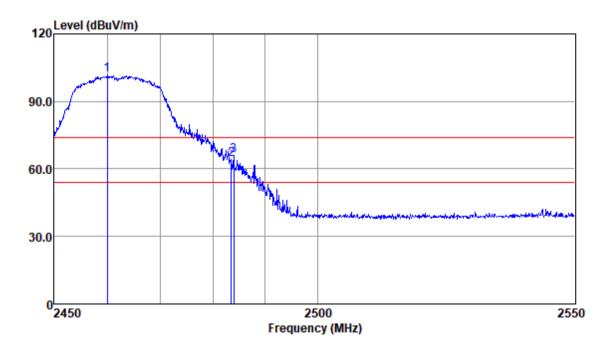
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.37	92.81	29.07	3.13	37.53	87.48	54.00	33.48	Average
2483.50	49.28	29.11	3.14	37.57	43.96	54.00	-10.04	Average
2483.85	48.67	29.11	3.14	37.57	43.35	54.00	-10.65	Average



Report No.: SHEM200700615603 Page: 35 of 61

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

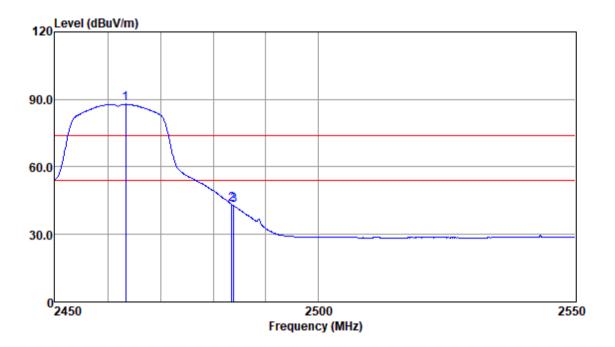
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2460.02	107.05	29.07	3.13	37.53	101.72	74.00	27.72	Peak
2483.50	69.31	29.11	3.14	37.57	63.99	74.00	-10.01	Peak
2484.05	71.43	29.11	3.14	37.57	66.11	74.00	-7.89	Peak



Report No.: SHEM200700615603

Page: 36 of 61

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
								Average
2483.50	48.77	29.11	3.14	37.57	43.45	54.00	-10.55	Average
2483.95	48.10	29.11	3.14	37.57	42.78	54.00	-11.22	Average



Report No.: SHEM200700615603

Page: 37 of 61

7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



Report No.: SHEM200700615603

38 of 61 Page:

7.7.1 E.U.T. Operation

Operating Environment:

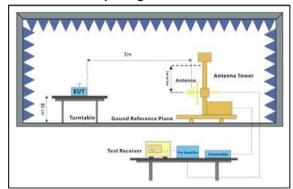
22 Temperature: Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

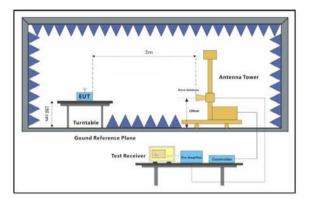
Test mode

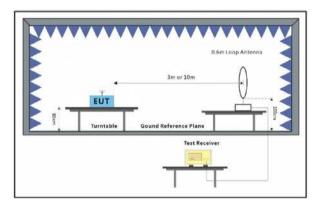
d:TX mode Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.7.2 Test Setup Diagram









Report No.: SHEM200700615603

Page: 39 of 61

7.7.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) 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

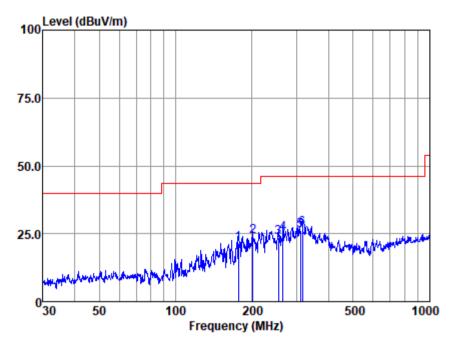
- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



Report No.: SHEM200700615603

Page: 40 of 61

Below 1GHz:



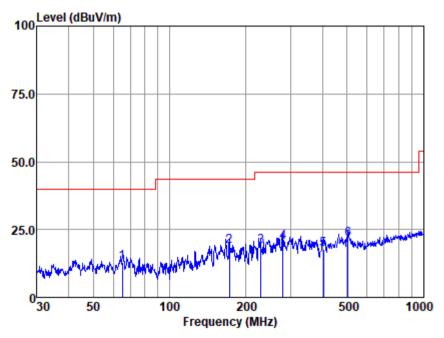
Antenna Polarity :HORIZONTAL EUT/Project :6155CR

Test mode :d

		Read	Antenna	Cable	Preamp	Emission	limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	176.888	49.49	12.11	1.86	42.20	21.26	43.50	-22.24	QP
2	201.393	54.13	9.88	1.99	42.18	23.82	43.50	-19.68	QP
3	253.837	51.64	11.85	2.22	42.10	23.61	46.00	-22.39	QP
4	264.746	52.55	12.29	2.27	42.11	25.00	46.00	-21.00	QP
5	309.998	52.30	13.59	2.43	42.08	26.24	46.00	-19.76	QP
6	315.481	52.86	13.75	2.44	42.06	26.99	46.00	-19.01	QP



Report No.: SHEM200700615603 Page: 41 of 61



Antenna Polarity : VERTICAL EUT/Project :6155CR Test mode : d

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	65.114	41.75	12.37	1.15	42.29	12.98	40.00	-27.02	QP
2	171.995	46.57	12.61	1.84	42.21	18.81	43.50	-24.69	QP
3	228.490	48.81	9.88	2.13	42.13	18.69	46.00	-27.31	QP
4	279.044	47.47	12.80	2.32	42.11	20.48	46.00	-25.52	QP
5	403.250	41.28	15.59	2.68	41.90	17.65	46.00	-28.35	QP
6	504.706	42.59	17.76	2.92	41.69	21.58	46.00	-24.42	QP

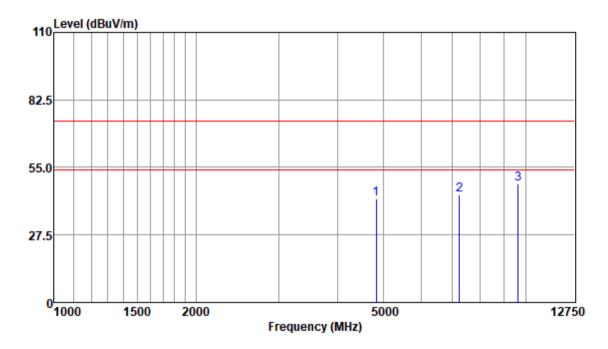


Report No.: SHEM200700615603

Page: 42 of 61

Above 1GHz:

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:Low



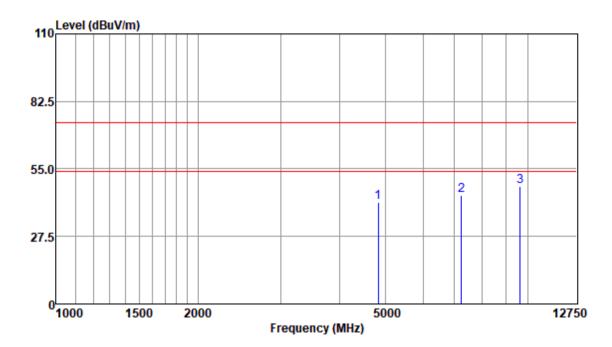
Antenna Polarity : HORIZONTAL

		Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Fre	q	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MH	Z	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.	00	42.17	33.78	5.01	38.73	42.23	74.00	-31.77	Peak
7236.	00	39.05	36.35	5.78	37.16	44.02	74.00	-29.98	Peak
9648.	00	38.03	37.69	6.65	34.17	48.20	74.00	-25.80	Peak



Report No.: SHEM200700615603 Page: 43 of 61

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

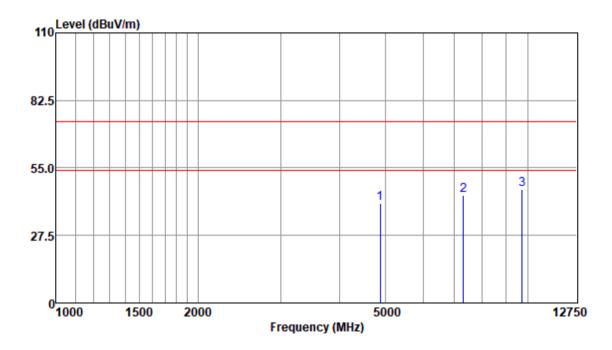
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	41.25	33.78	5.01	38.73	41.31	74.00	-32.69	Peak
7236.00	39.27	36.35	5.78	37.16	44.24	74.00	-29.76	Peak
9648.00	37.77	37.69	6.65	34.17	47.94	74.00	-26.06	Peak



Report No.: SHEM200700615603

Page: 44 of 61

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

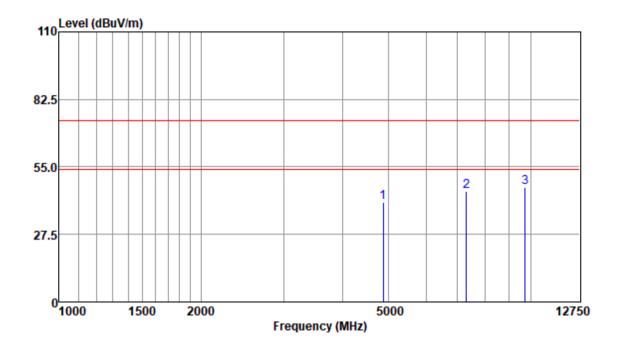
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.92	33.93	4.48	38.78	40.55	74.00	-33.45	Peak
7311.00	38.53	36.47	5.80	37.11	43.69	74.00	-30.31	Peak
9748.00	36.25	37.68	6.46	34.15	46.24	74.00	-27.76	Peak



Report No.: SHEM200700615603

Page: 45 of 61

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:middle



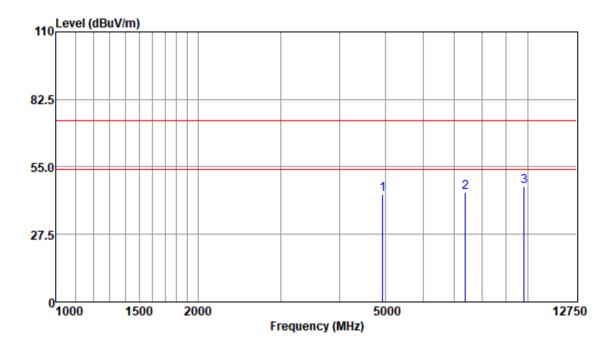
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.08	33.93	4.48	38.78	40.71	74.00	-33.29	Peak
7311.00	39.87	36.47	5.80	37.11	45.03	74.00	-28.97	Peak
9748.00	36.57	37.68	6.46	34.15	46.56	74.00	-27.44	Peak



Report No.: SHEM200700615603 Page: 46 of 61

Mode:d; Polarization:Horizontal; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

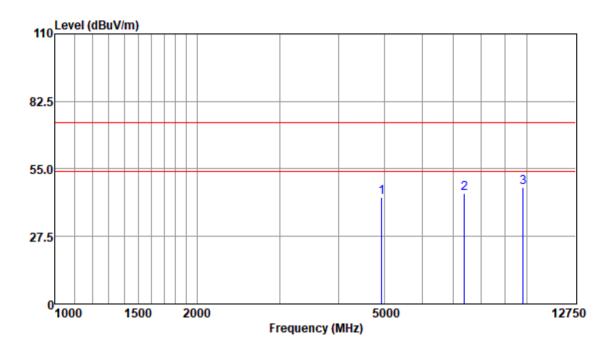
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	44.27	33.98	4.30	38.83	43.72	74.00	-30.28	Peak
7386.00	38.86	36.48	6.35	37.06	44.63	74.00	-29.37	Peak
9848.00	37.31	37.56	6.53	34.13	47.27	74.00	-26.73	Peak



Report No.: SHEM200700615603

Page: 47 of 61

Mode:d; Polarization:Vertical; Modulation:b; bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

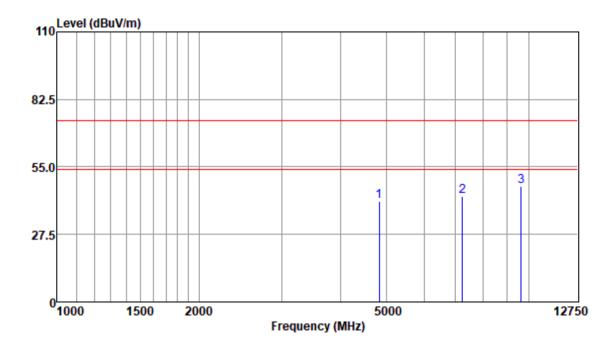
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	43.90	33.98	4.30	38.83	43.35	74.00	-30.65	Peak
7386.00	39.32	36.48	6.35	37.06	45.09	74.00	-28.91	Peak
9848.00	37.46	37.56	6.53	34.13	47.42	74.00	-26.58	Peak



Report No.: SHEM200700615603

Page: 48 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

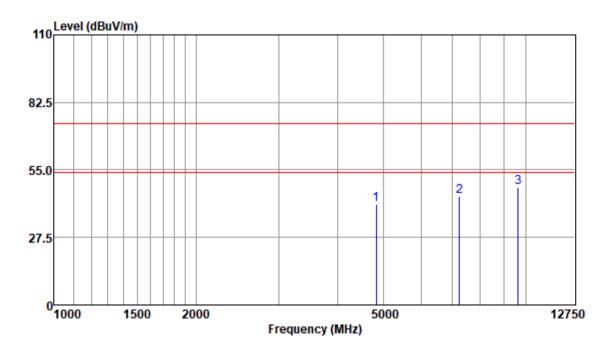
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	41.10	33.78	5.01	38.73	41.16	74.00	-32.84	Peak
7236.00	38.12	36.35	5.78	37.16	43.09	74.00	-30.91	Peak
9648.00	37.09	37.69	6.65	34.17	47.26	74.00	-26.74	Peak



Report No.: SHEM200700615603

Page: 49 of 61

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:Low



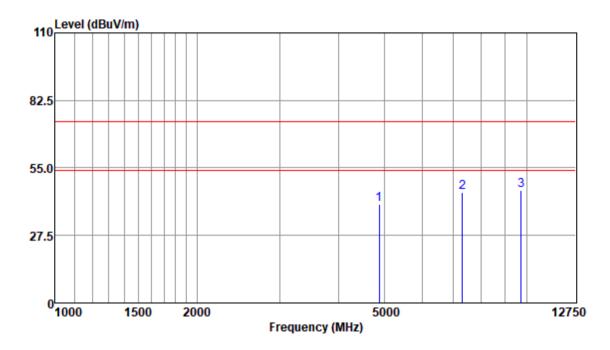
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.84	33.78	5.01	38.73	40.90	74.00	-33.10	Peak
7236.00	39.20	36.35	5.78	37.16	44.17	74.00	-29.83	Peak
9648.00	37.72	37.69	6.65	34.17	47.89	74.00	-26.11	Peak



Report No.: SHEM200700615603 Page: 50 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

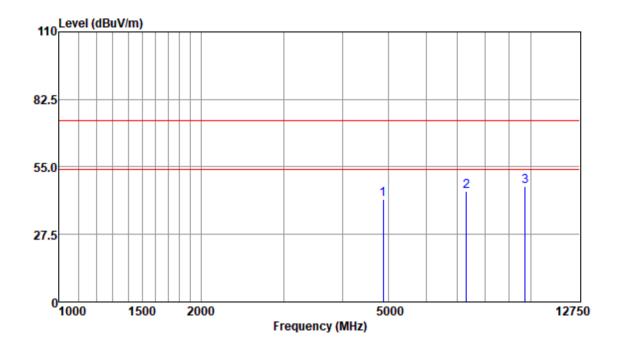
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.43	33.93	4.48	38.78	40.06	74.00	-33.94	Peak
7311.00	39.73	36.47	5.80	37.11	44.89	74.00	-29.11	Peak
9748.00	36.08	37.68	6.46	34.15	46.07	74.00	-27.93	Peak



Report No.: SHEM200700615603

Page: 51 of 61

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

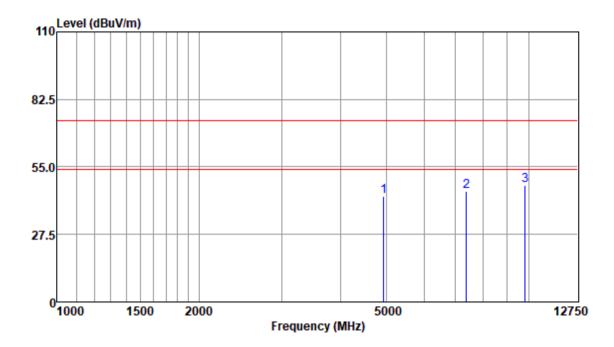
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.03	33.93	4.48	38.78	41.66	74.00	-32.34	Peak
7311.00	39.96	36.47	5.80	37.11	45.12	74.00	-28.88	Peak
9748.00	37.10	37.68	6.46	34.15	47.09	74.00	-26.91	Peak



Report No.: SHEM200700615603

Page: 52 of 61

Mode:d; Polarization:Horizontal; Modulation:g; bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

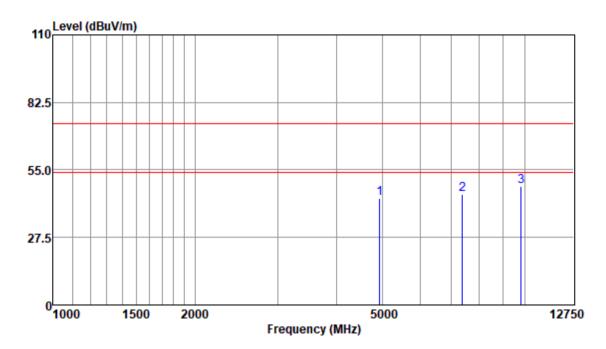
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	43.76	33.98	4.30	38.83	43.21	74.00	-30.79	Peak
7386.00	39.45	36.48	6.35	37.06	45.22	74.00	-28.78	Peak
9848.00	37.51	37.56	6.53	34.13	47.47	74.00	-26.53	Peak



Report No.: SHEM200700615603

Page: 53 of 61

Mode:d; Polarization:Vertical; Modulation:g; bandwidth:20MHz; Channel:High



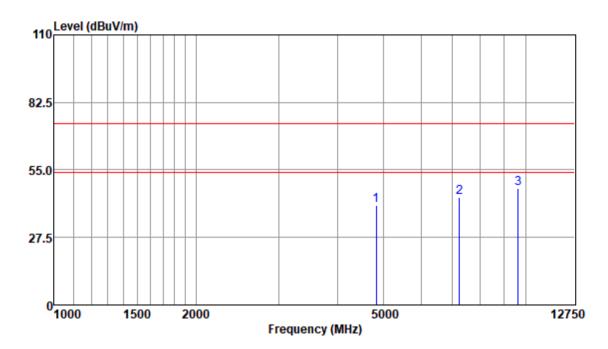
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	43.90	33.98	4.30	38.83	43.35	74.00	-30.65	Peak
7386.00	39.41	36.48	6.35	37.06	45.18	74.00	-28.82	Peak
9848.00	38.37	37.56	6.53	34.13	48.33	74.00	-25.67	Peak



Report No.: SHEM200700615603 Page: 54 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

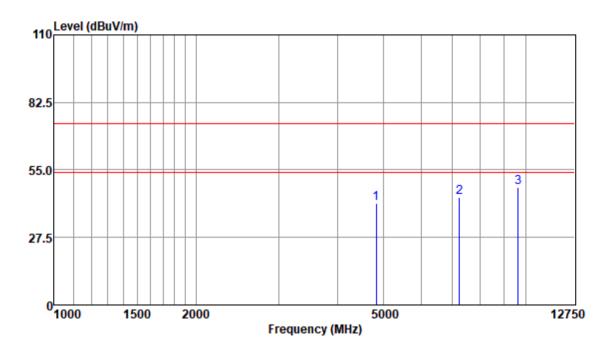
F	req					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
482	4.00	40.73	33.78	5.01	38.73	40.79	74.00	-33.21	Peak
723	6.00	38.95	36.35	5.78	37.16	43.92	74.00	-30.08	Peak
964	8.00	37.14	37.69	6.65	34.17	47.31	74.00	-26.69	Peak



Report No.: SHEM200700615603

Page: 55 of 61

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

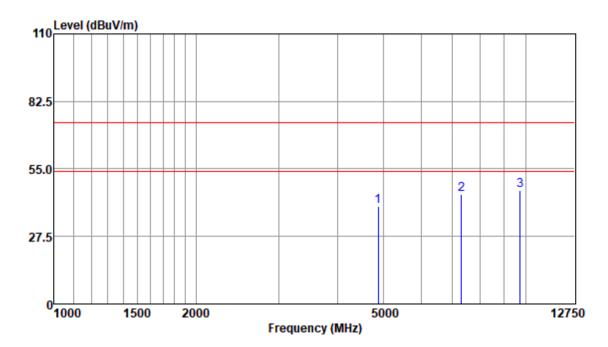
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	41.28	33.78	5.01	38.73	41.34	74.00	-32.66	Peak
7236.00	38.85	36.35	5.78	37.16	43.82	74.00	-30.18	Peak
9648.00	37.59	37.69	6.65	34.17	47.76	74.00	-26.24	Peak



Report No.: SHEM200700615603

Page: 56 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

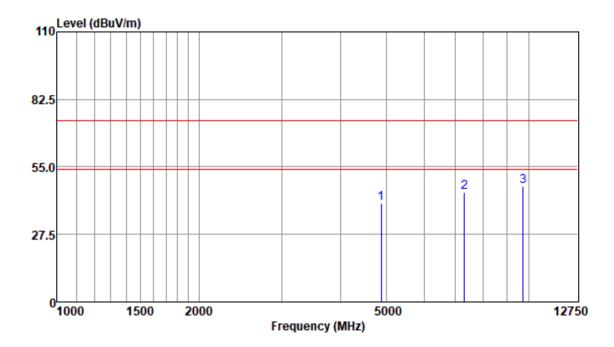
Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.22	33.93	4.48	38.78	39.85	74.00	-34.15	Peak
7311.00	39.40	36.47	5.80	37.11	44.56	74.00	-29.44	Peak
9748.00	36.24	37.68	6.46	34.15	46.23	74.00	-27.77	Peak



Report No.: SHEM200700615603

Page: 57 of 61

Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



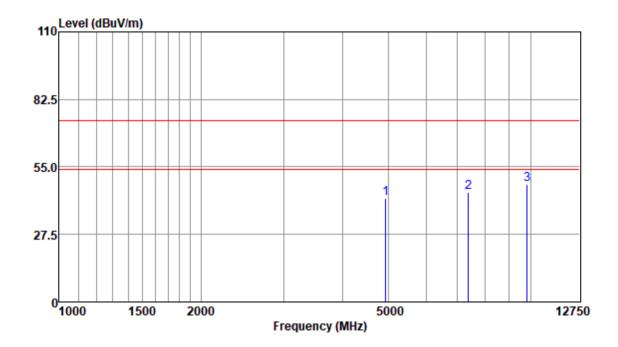
Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.40	33.93	4.48	38.78	40.03	74.00	-33.97	Peak
7311.00	39.38	36.47	5.80	37.11	44.54	74.00	-29.46	Peak
9748.00	37.11	37.68	6.46	34.15	47.10	74.00	-26.90	Peak



Report No.: SHEM200700615603 Page: 58 of 61

Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

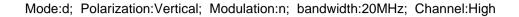


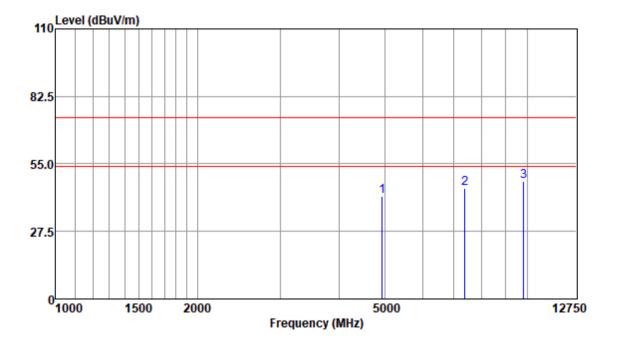
Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	42.80	33.98	4.30	38.83	42.25	74.00	-31.75	Peak
7386.00	38.95	36.48	6.35	37.06	44.72	74.00	-29.28	Peak
9848.00	38.05	37.56	6.53	34.13	48.01	74.00	-25.99	Peak



Report No.: SHEM200700615603 Page: 59 of 61





Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	42.54	33.98	4.30	38.83	41.99	74.00	-32.01	Peak
7386.00	39.18	36.48	6.35	37.06	44.95	74.00	-29.05	Peak
9848.00	38.10	37.56	6.53	34.13	48.06	74.00	-25.94	Peak



Report No.: SHEM200700615603

Page: 60 of 61

7.8 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.8.1 E.U.T. Operation

Operating Environment:

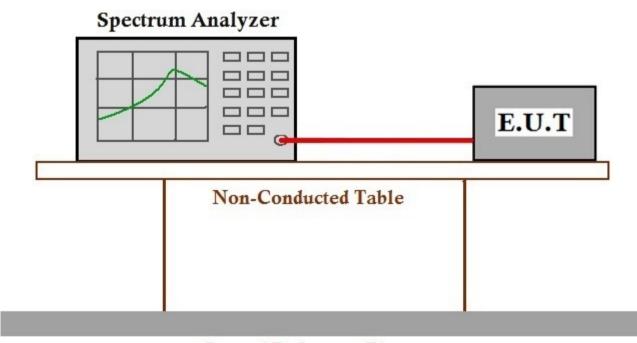
Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode d:TX mode_Keep the EUT in continuously transmitting mode with all modulation

types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE

802.11n(HT20). Only the data of worst case is recorded in the report.

7.8.2 Test Setup Diagram



Ground Reference Plane

7.8.3 Measurement Procedure and Data

The detailed test data see: Appendix C for SHEM200700615603



Report No.: SHEM200700615603

Page: 61 of 61

8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -