



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: alen #4596

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/57/08

EUT: MID

Engineer Signature:

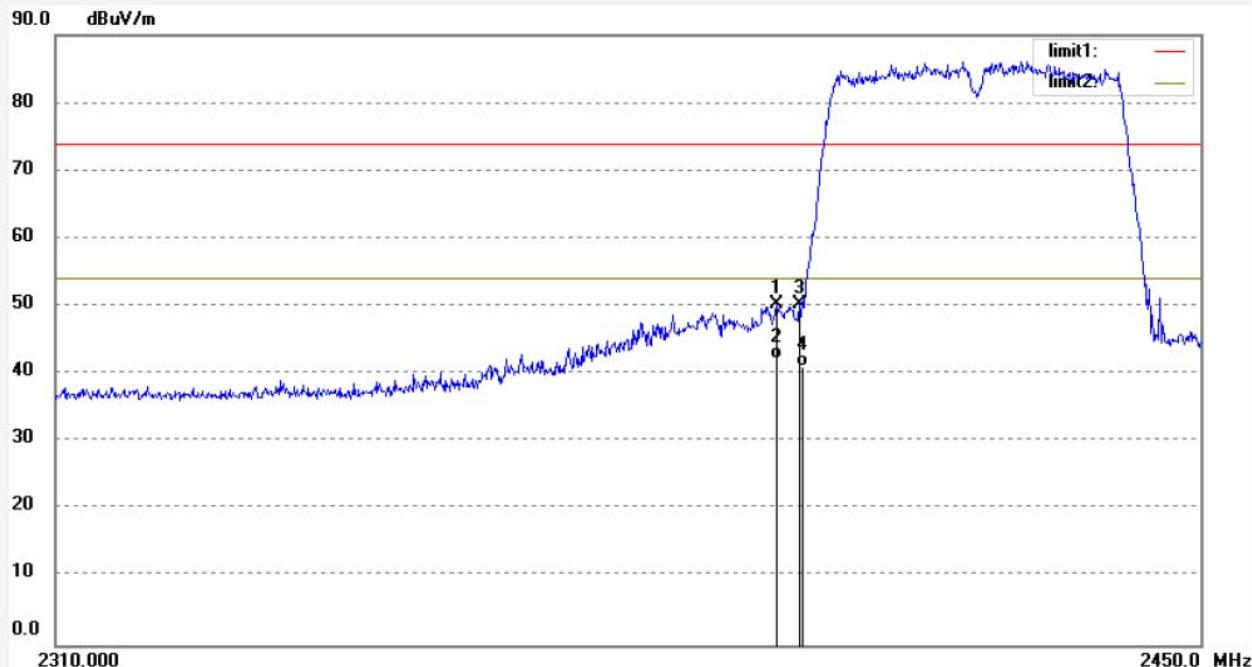
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2397.360	57.00	-6.76	50.24	74.00	-23.76	peak			
2	2397.360	48.96	-6.76	42.20	54.00	-11.80	peak			
3	2400.160	56.99	-6.76	50.23	74.00	-23.77	peak			
4	2400.160	47.89	-6.76	41.13	54.00	-12.87	peak			

Note: Average measurement with peak detection at No.2&4

Job No.: alen #4594

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: MID

Mode: TX 2452MHz(802.11n40)

Model: M7XX

Manufacturer: SungWorld

Polarization: Horizontal

Power Source: AC 120V/60Hz

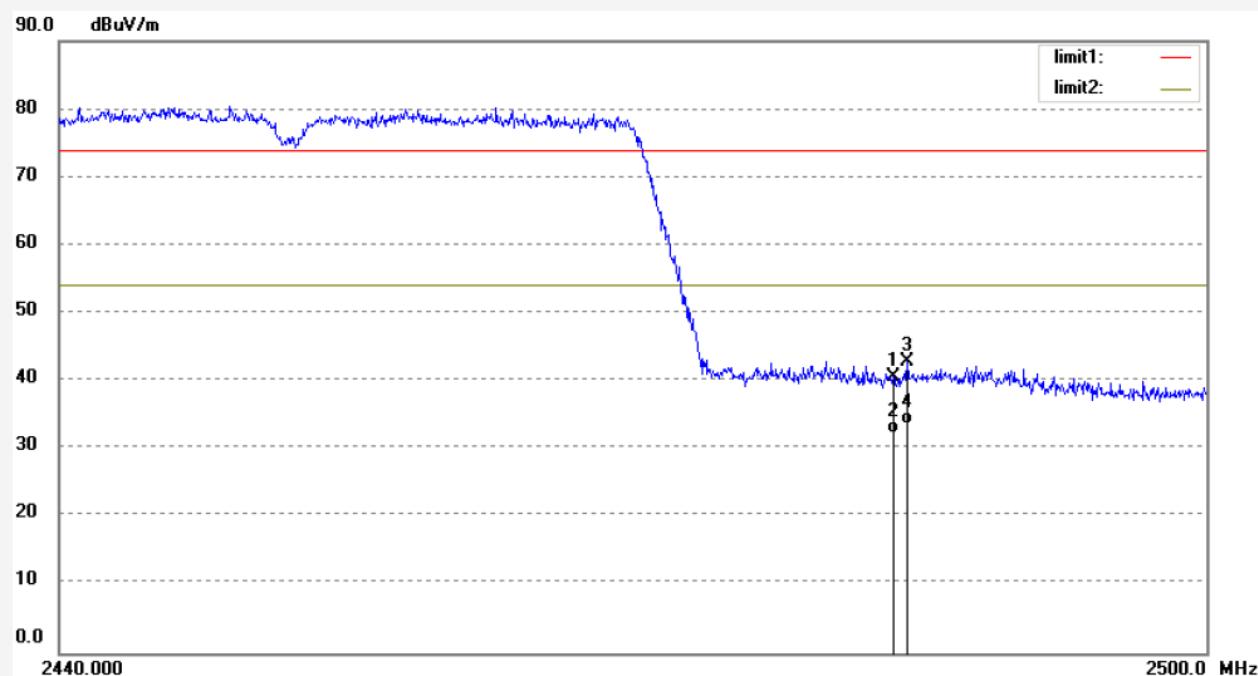
Date: 14/10/14/

Time: 9/53/17

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	47.13	-6.54	40.59	74.00	-33.41	peak			
2	2483.500	38.89	-6.54	32.35	54.00	-21.65	peak			
3	2484.220	49.32	-6.54	42.78	74.00	-31.22	peak			
4	2484.220	40.24	-6.54	33.70	54.00	-20.30	peak			

Note: Average measurement with peak detection at No.2&4



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Site: 1# Chamber
Tel:+86-0755-26503290
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Job No.: alen #4595

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: MID

Mode: TX 2452MHz(802.11n40)

Model: M7XX

Manufacturer: SungWorld

Polarization: Vertical

Power Source: AC 120V/60Hz

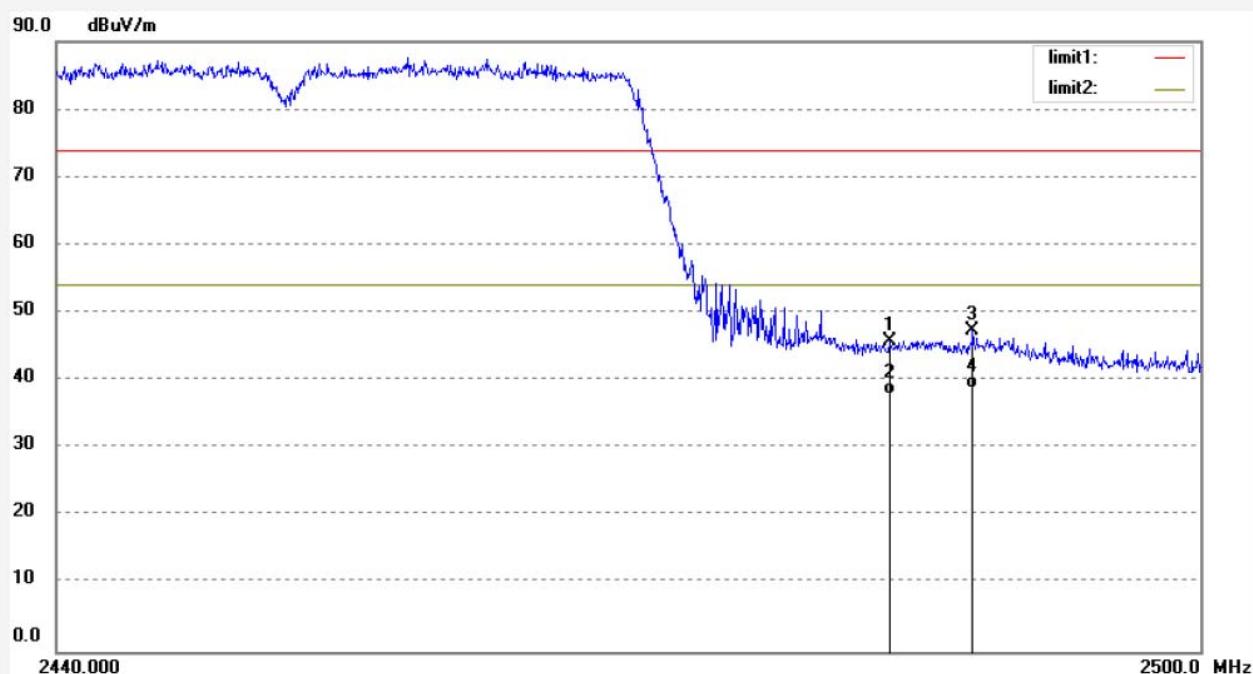
Date: 14/10/14/

Time: 9/54/42

Engineer Signature:

Distance: 3m

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.560	52.22	-6.54	45.68	74.00	-28.32	peak			
2	2483.560	44.35	-6.54	37.81	54.00	-16.19	peak			
3	2488.000	53.90	-6.52	47.38	74.00	-26.62	peak			
4	2488.000	45.35	-6.52	38.83	54.00	-15.17	peak			

Note: Average measurement with peak detection at No.2&4

10.RADIATED SPURIOUS EMISSION TEST

10.1.Block Diagram of Test Setup

10.1.1.Block diagram of connection between the EUT and peripherals

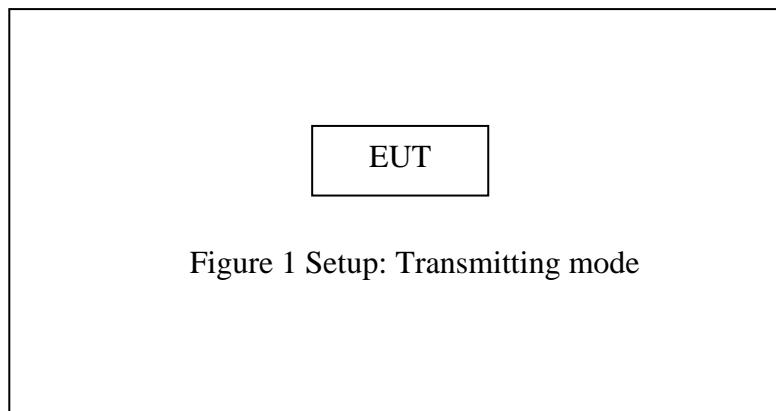
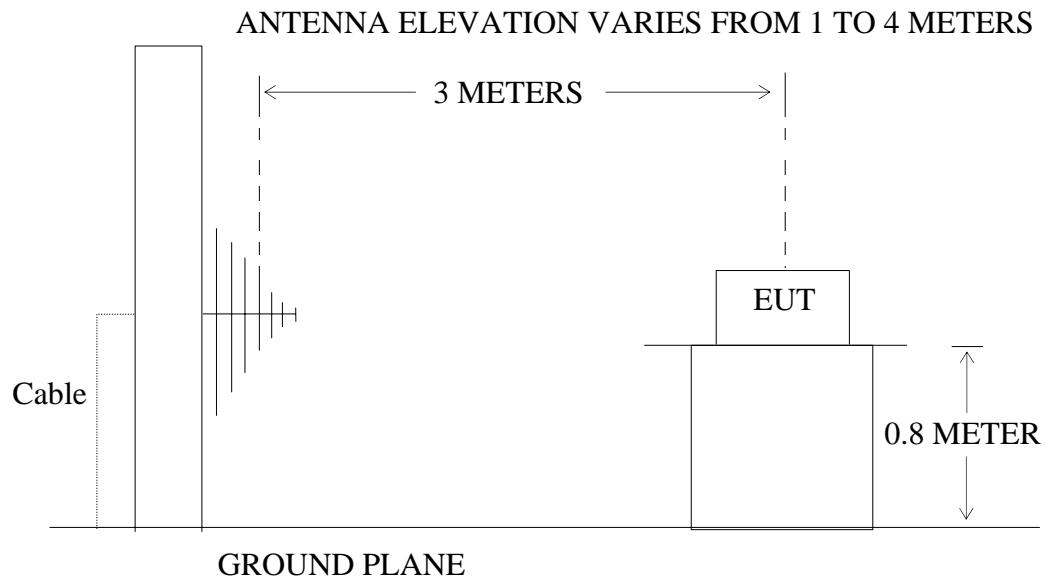


Figure 1 Setup: Transmitting mode

10.1.2.Semi-Anechoic Chamber Test Setup Diagram



10.2.The Limit For Section 15.247(d)

Section 15.247(d): 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 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).

10.3. Restricted bands of operation

10.3.1. FCC Part 15.205 Restricted bands of operation

- (a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

10.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT and simulator as shown as Section 10.1.

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

10.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The frequency range from 30MHz to 25000MHz is checked.

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

During the radiated emission test, the spectrum analyzer was set with the following configurations:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

10.7.The Field Strength of Radiation Emission Measurement Results

- Note:
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. *: Denotes restricted band of operation.
 3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.
 4. The EUT is tested radiation emission at each test mode (802.11 b/g/n) in three axes. The worst emissions are reported in all test mode and channels.
 5. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.

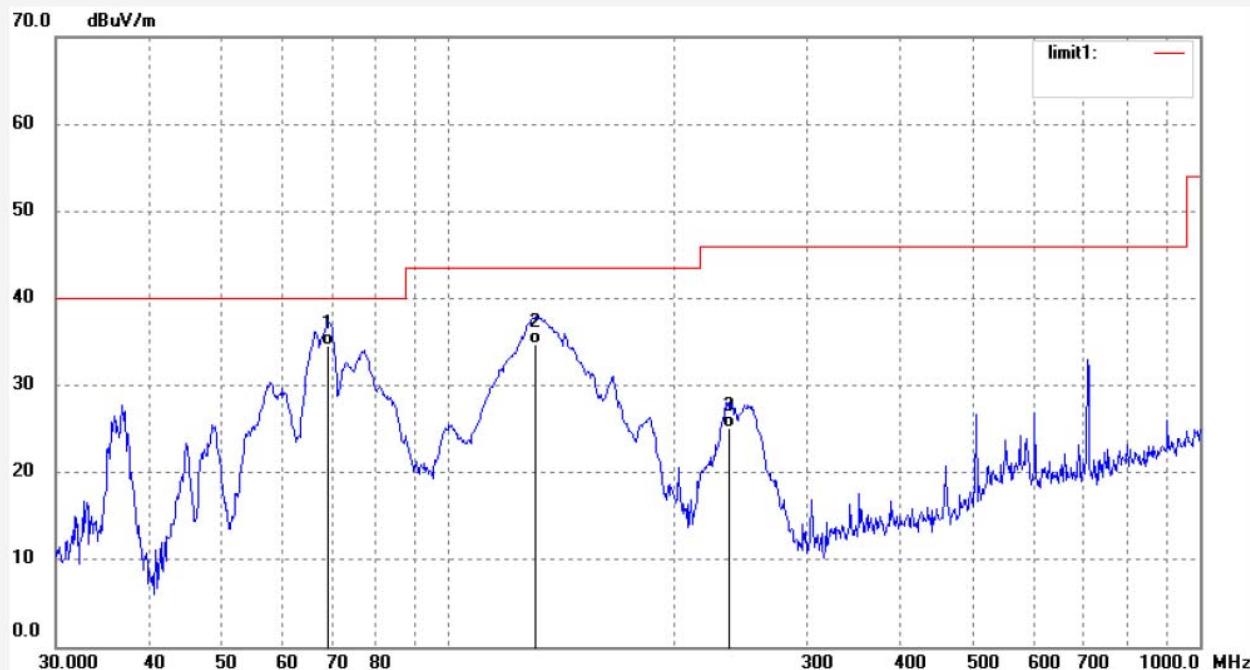
Below 1G



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Tel:+86-0755-26503290
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Job No.: WCARRY #111	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/10/14/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/40/33
EUT: MID	Engineer Signature: Carry
Mode: TX Channel 1(802.11b)	Distance: 3m
Model: M7XX	
Manufacturer: SungWorld	
Note: Report NO.:ATE20141876	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	69.2296	55.89	-21.32	34.57	40.00	-5.43	QP			
2	130.3048	57.85	-23.04	34.81	43.50	-8.69	QP			
3	236.7927	44.93	-19.82	25.11	46.00	-20.89	QP			



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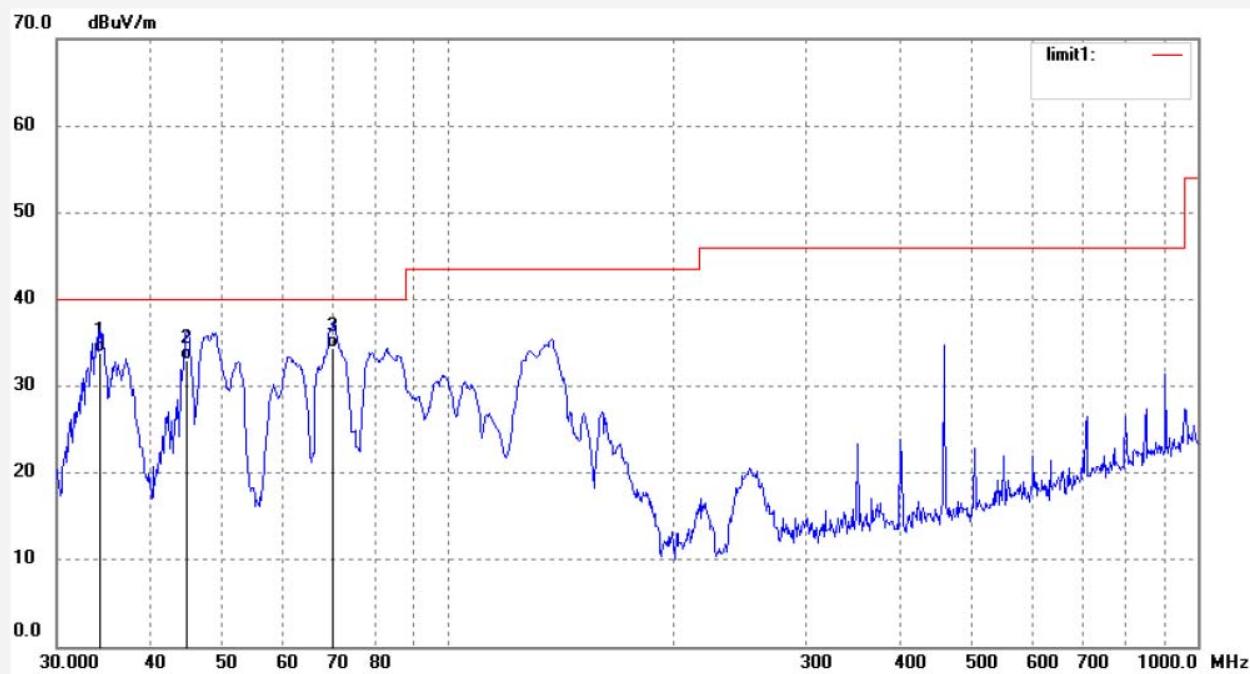
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.:	WCARRY #112	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/10/14/
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	9/41/01
EUT:	MID	Engineer Signature:	Carry
Mode:	TX Channel 1(802.11b)	Distance:	3m
Model:	M7XX		
Manufacturer:	SungWorld		
Note:	Report NO.:ATE20141876		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.2852	51.32	-17.41	33.91	40.00	-6.09	QP			
2	44.7792	52.31	-19.37	32.94	40.00	-7.06	QP			
3	70.2095	55.68	-21.36	34.32	40.00	-5.68	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: WCARRY #114

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/41/36

EUT: MID

Engineer Signature: Carry

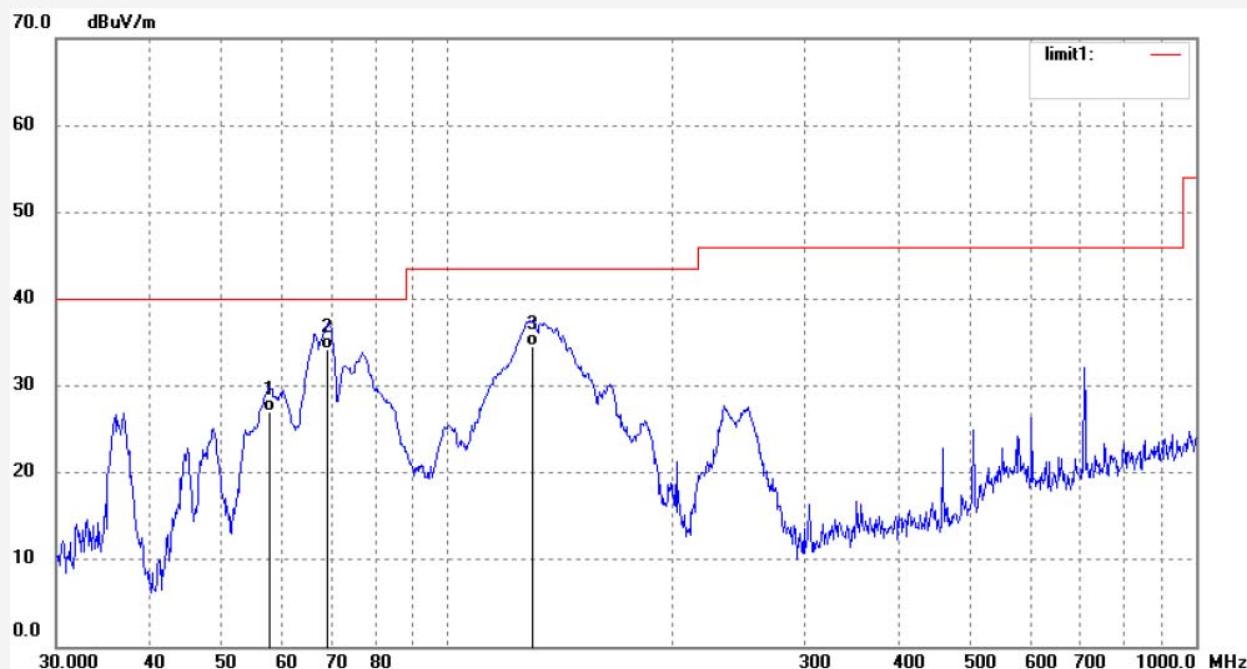
Mode: TX Channel 6(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	57.8721	47.99	-21.02	26.97	40.00	-13.03	QP			
2	69.2296	55.57	-21.32	34.25	40.00	-5.75	QP			
3	129.8477	57.62	-23.02	34.60	43.50	-8.90	QP			



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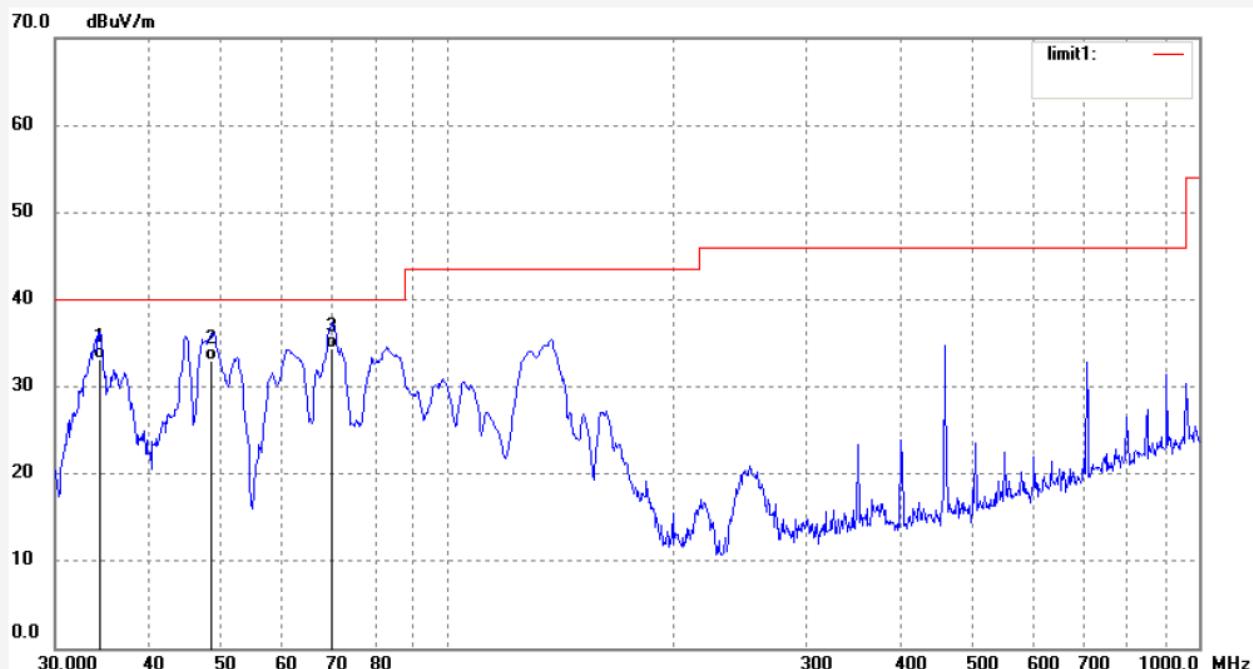
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: WCARRY #113
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: MID
Mode: TX Channel 6(802.11b)
Model: M7XX
Manufacturer: SungWorld

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 14/10/14/
Time: 9/41/08
Engineer Signature: Carry
Distance: 3m

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	50.61	-17.42	33.19	40.00	-6.81	QP			
2	48.5482	53.28	-20.33	32.95	40.00	-7.05	QP			
3	70.2095	55.75	-21.36	34.39	40.00	-5.61	QP			

Job No.: WCARRY #115

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/41/47

EUT: MID

Engineer Signature: Carry

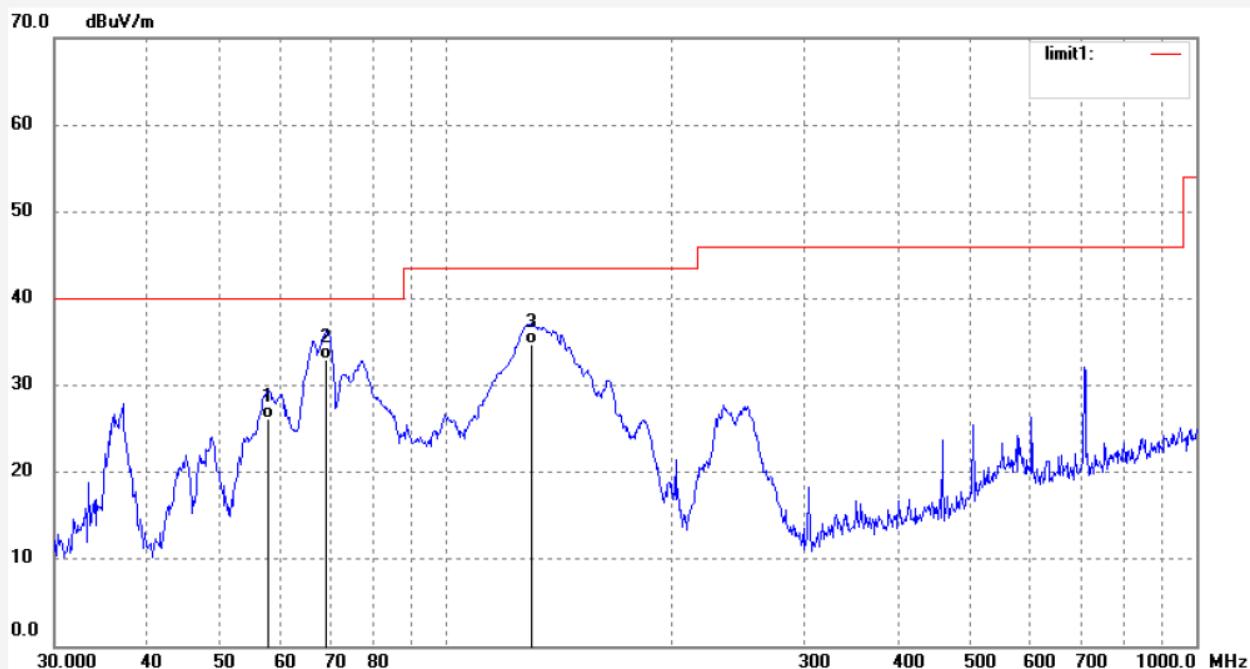
Mode: TX Channel 11(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	57.8721	47.11	-21.02	26.09	40.00	-13.91	QP			
2	69.2296	54.39	-21.32	33.07	40.00	-6.93	QP			
3	129.8477	57.82	-23.02	34.80	43.50	-8.70	QP			



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Site: 1# Chamber

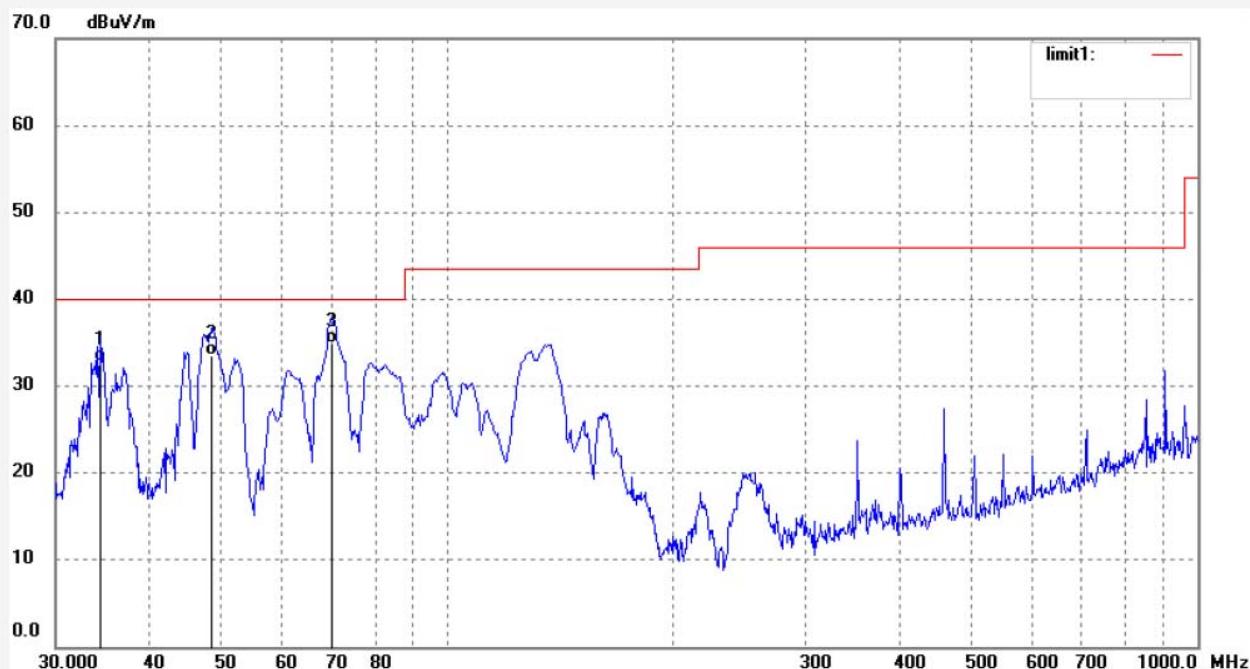
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: WCARRY #116
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 55 %
 EUT: MID
 Mode: TX Channel 11(802.11b)
 Model: M7XX
 Manufacturer: SungWorld

Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 14/10/14/
 Time: 9/42/08
 Engineer Signature: Carry
 Distance: 3m

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.4059	50.23	-17.42	32.81	40.00	-7.19	QP			
2	48.5482	53.78	-20.33	33.45	40.00	-6.55	QP			
3	69.9632	56.32	-21.35	34.97	40.00	-5.03	QP			

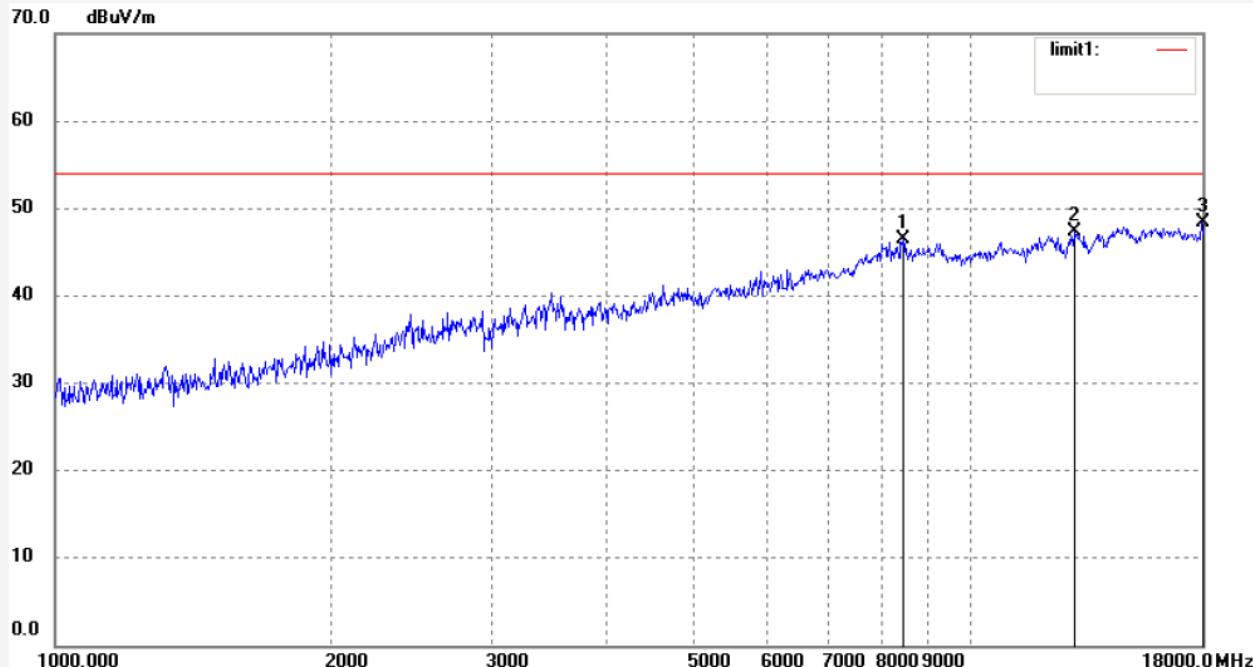
Above 1G



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Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 2# Chamber
Tel:+86-0755-26503290
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Job No.:	carry #378	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/10/14/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	9/50/46
EUT:	MID	Engineer Signature:	
Mode:	TX Channel 1(802.11b)	Distance:	3m
Model:	M7XX		
Manufacturer:	SungWorld		
Note:	Report NO.:ATE20141876		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8469.642	38.42	7.96	46.38	54.00	-7.62	peak			
2	13030.319	8.38	39.04	47.42	54.00	-6.58	peak			
3	17947.683	2.57	45.85	48.42	54.00	-5.58	peak			



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Site: 2# Chamber

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Job No.: carry #379

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/51/28

EUT: MID

Engineer Signature:

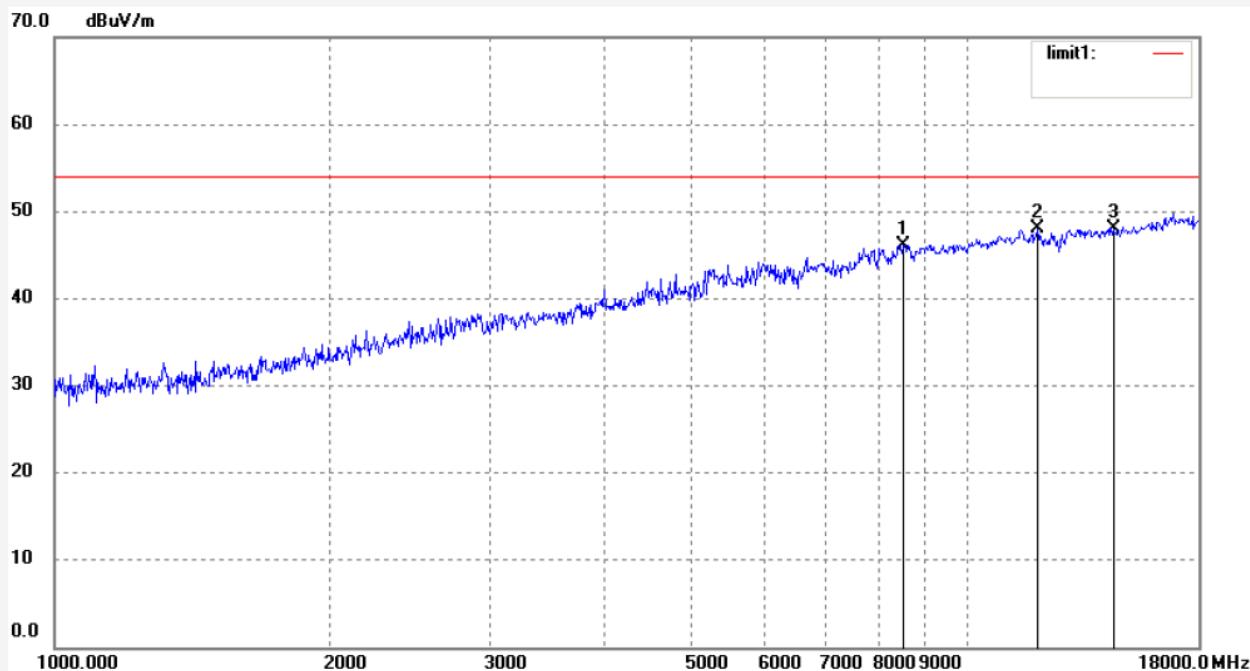
Mode: TX Channel 1(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8543.925	38.39	7.78	46.17	54.00	-7.83	peak			
2	11975.551	37.26	10.70	47.96	54.00	-6.04	peak			
3	14512.008	5.54	42.56	48.10	54.00	-5.90	peak			



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Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: carry #380

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/52/48

EUT: MID

Engineer Signature:

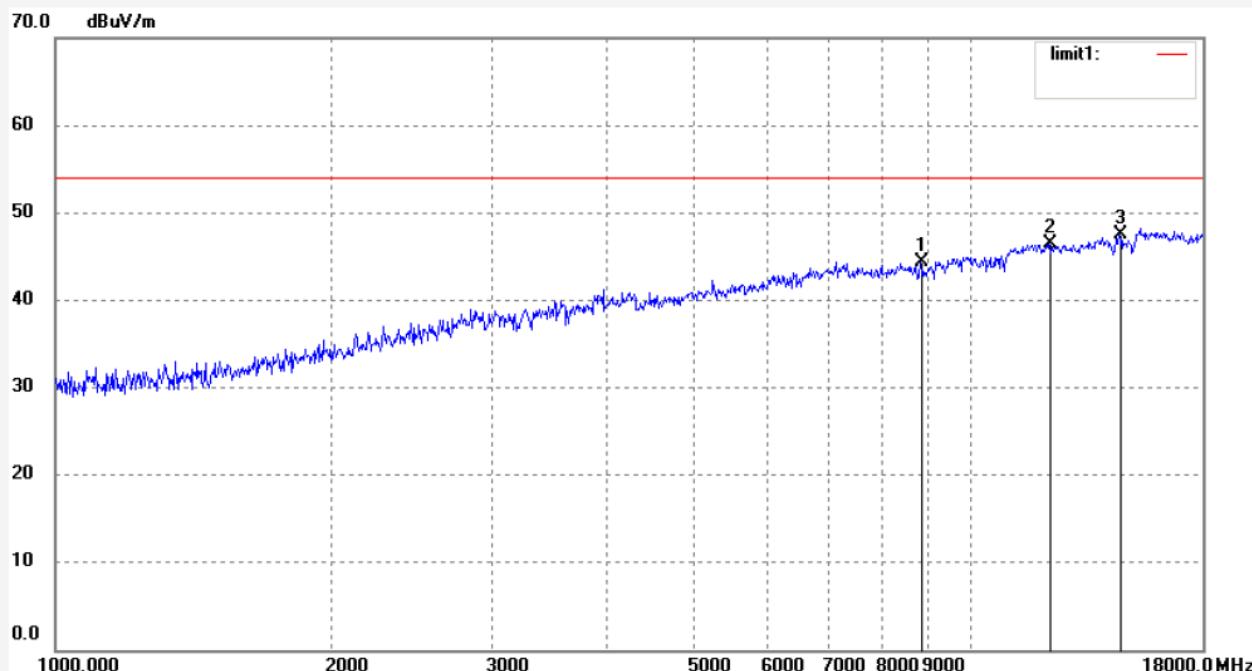
Mode: TX Channel 6(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8847.629	36.92	7.39	44.31	54.00	-9.69	peak			
2	12222.059	8.36	38.12	46.48	54.00	-7.52	peak			
3	14596.737	5.28	42.31	47.59	54.00	-6.41	peak			



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Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: carry #381

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/53/42

EUT: MID

Engineer Signature:

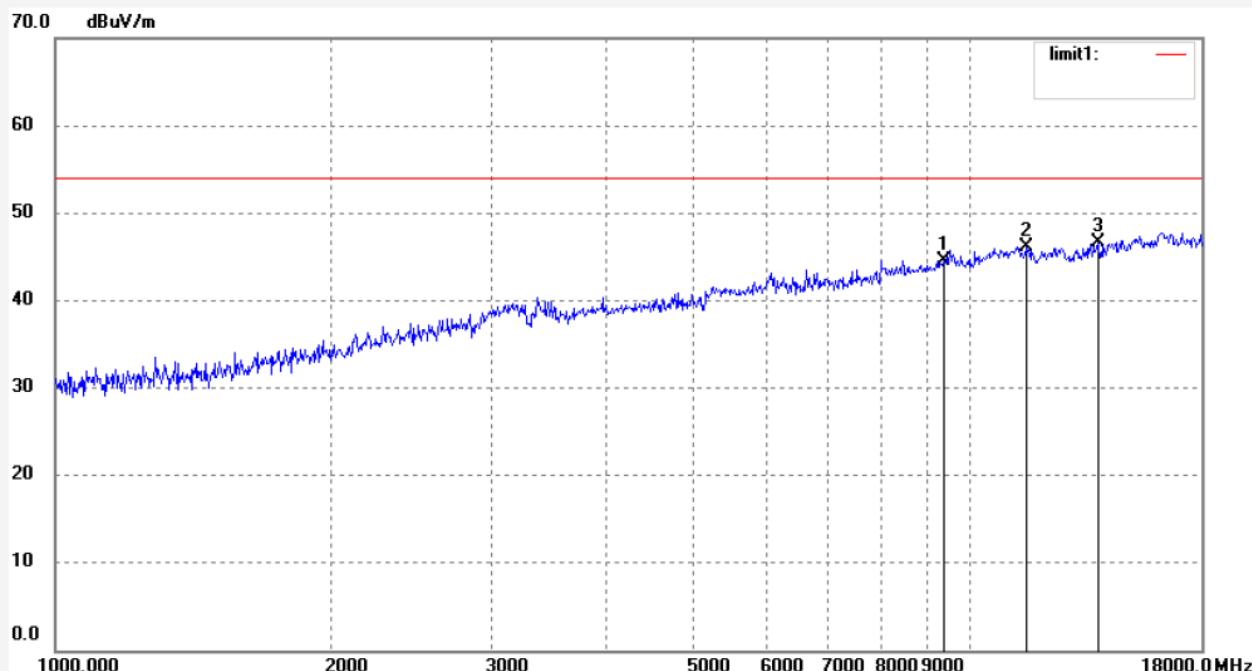
Mode: TX Channel 6(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9405.317	35.13	9.42	44.55	54.00	-9.45	peak			
2	11564.479	35.53	10.56	46.09	54.00	-7.91	peak			
3	13851.652	6.51	40.16	46.67	54.00	-7.33	peak			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: carry #382

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/54/46

EUT: MID

Engineer Signature:

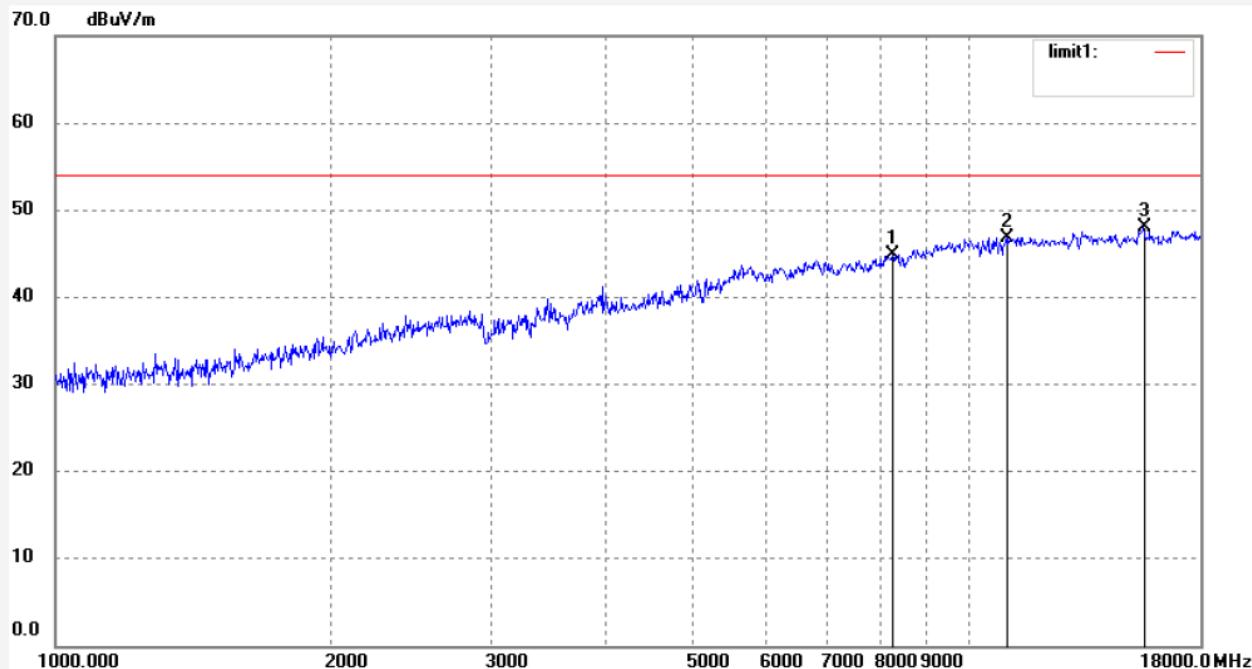
Mode: TX Channel 11(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8274.697	37.55	7.41	44.96	54.00	-9.04	peak			
2	11038.247	37.40	9.47	46.87	54.00	-7.13	peak			
3	15607.400	7.97	40.08	48.05	54.00	-5.95	peak			



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: carry #383

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/55/39

EUT: MID

Engineer Signature:

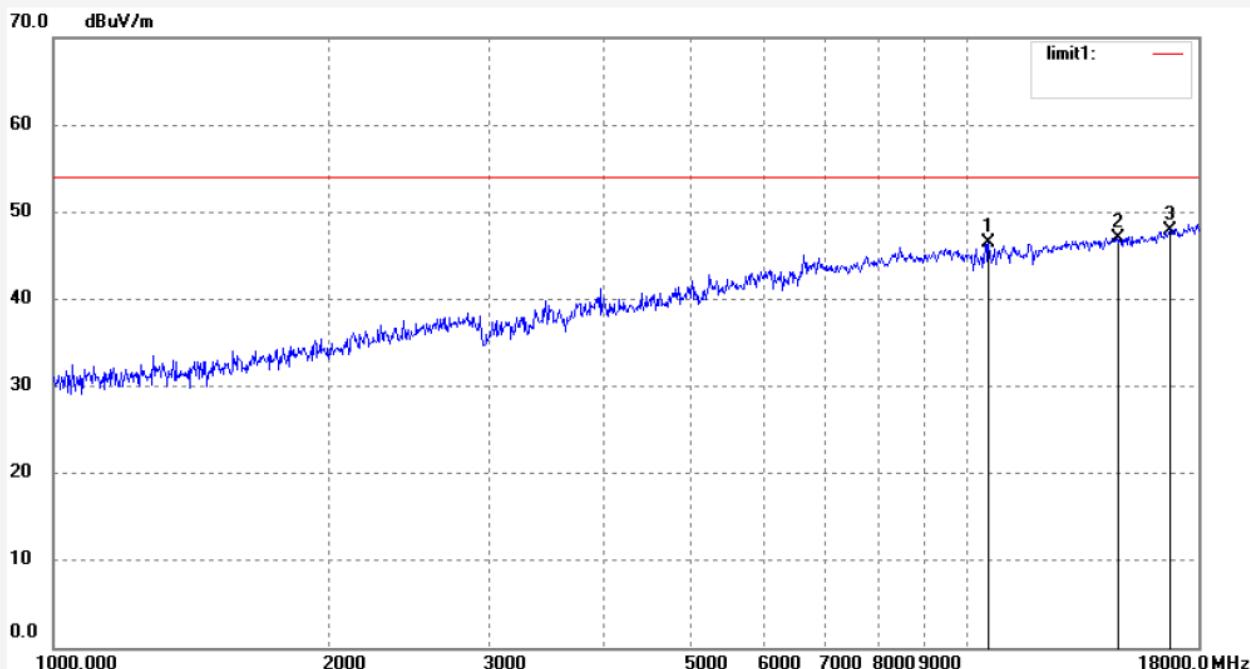
Mode: TX Channel 11(802.11b)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10597.475	38.13	8.33	46.46	54.00	-7.54	peak			
2	14639.286	4.84	42.18	47.02	54.00	-6.98	peak			
3	16736.686	6.88	40.96	47.84	54.00	-6.16	peak			



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Fax:+86-0755-26503396

Job No.: carry #384

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/56/40

EUT: MID

Engineer Signature:

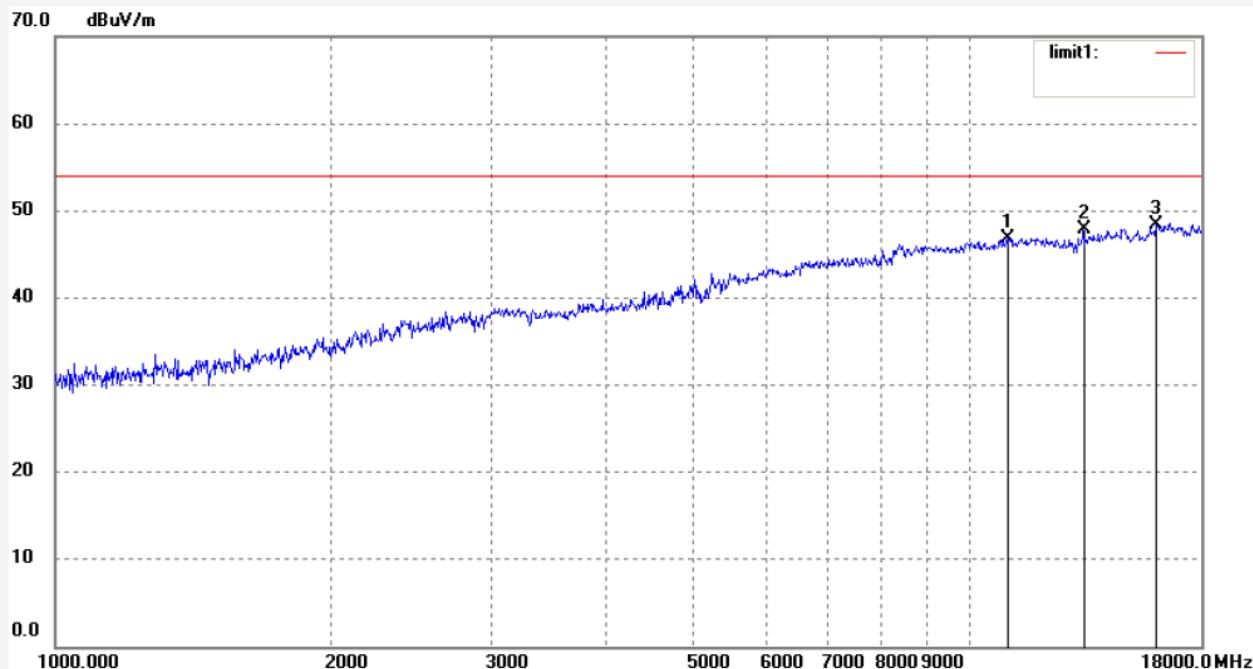
Mode: TX Channel 1(802.11g)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11038.247	37.40	9.47	46.87	54.00	-7.13	peak			
2	13376.181	8.42	39.45	47.87	54.00	-6.13	peak			
3	16068.368	8.29	40.04	48.33	54.00	-5.67	peak			



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Job No.: carry #385

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/57/18

EUT: MID

Engineer Signature:

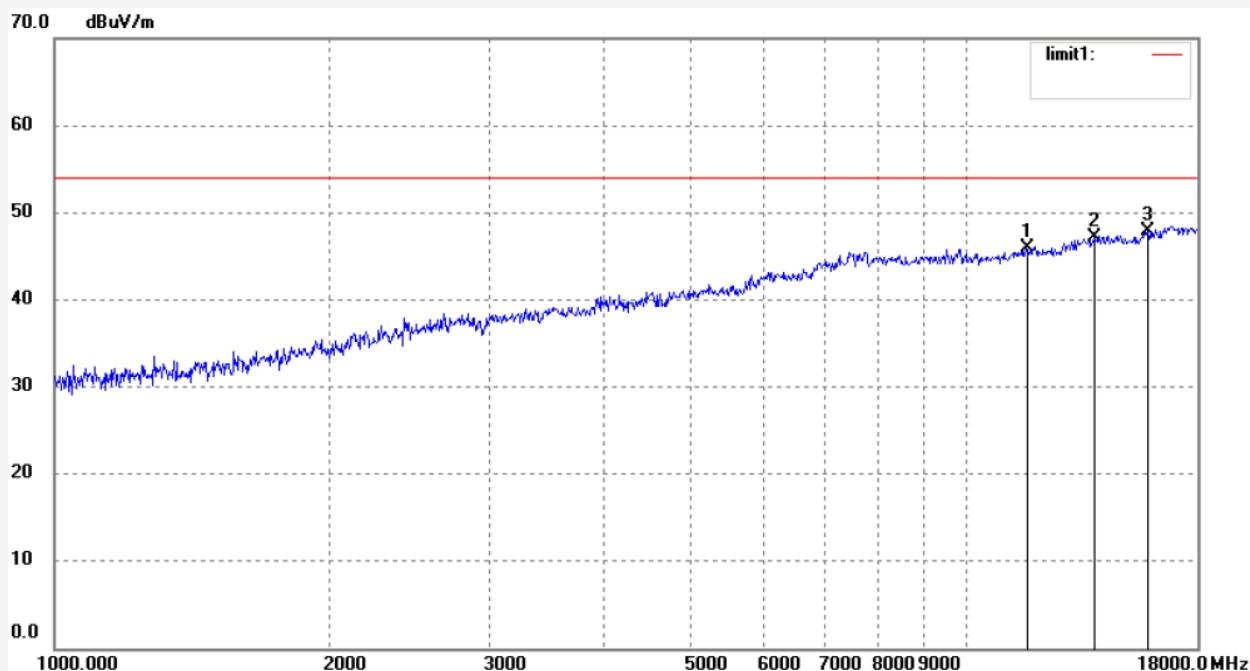
Mode: TX Channel 1(802.11g)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11665.905	34.80	11.06	45.86	54.00	-8.14	peak			
2	13851.652	7.01	40.16	47.17	54.00	-6.83	peak			
3	15882.369	7.80	40.02	47.82	54.00	-6.18	peak			



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Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: carry #386

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/58/06

EUT: MID

Engineer Signature:

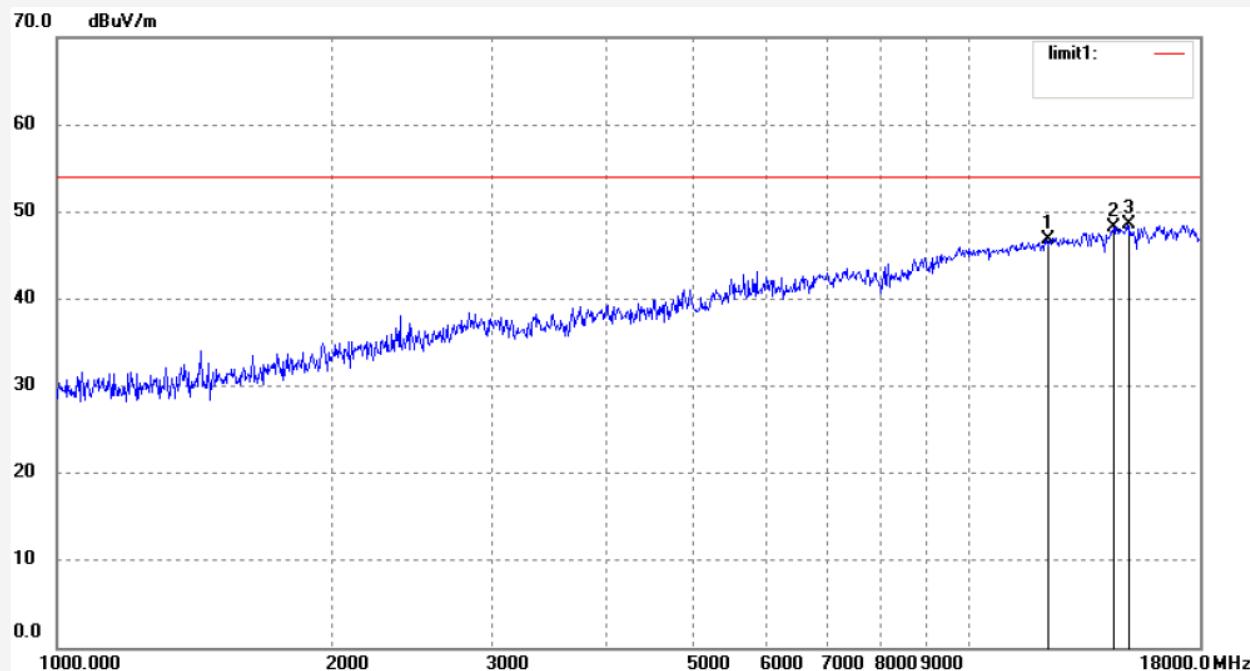
Mode: TX Channel 6(802.11g)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12222.059	8.61	38.12	46.73	54.00	-7.27	peak			
2	14469.829	5.77	42.47	48.24	54.00	-5.76	peak			
3	14984.176	7.49	41.15	48.64	54.00	-5.36	peak			



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Site: 2# Chamber

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Job No.: carry #387

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/58/45

EUT: MID

Engineer Signature:

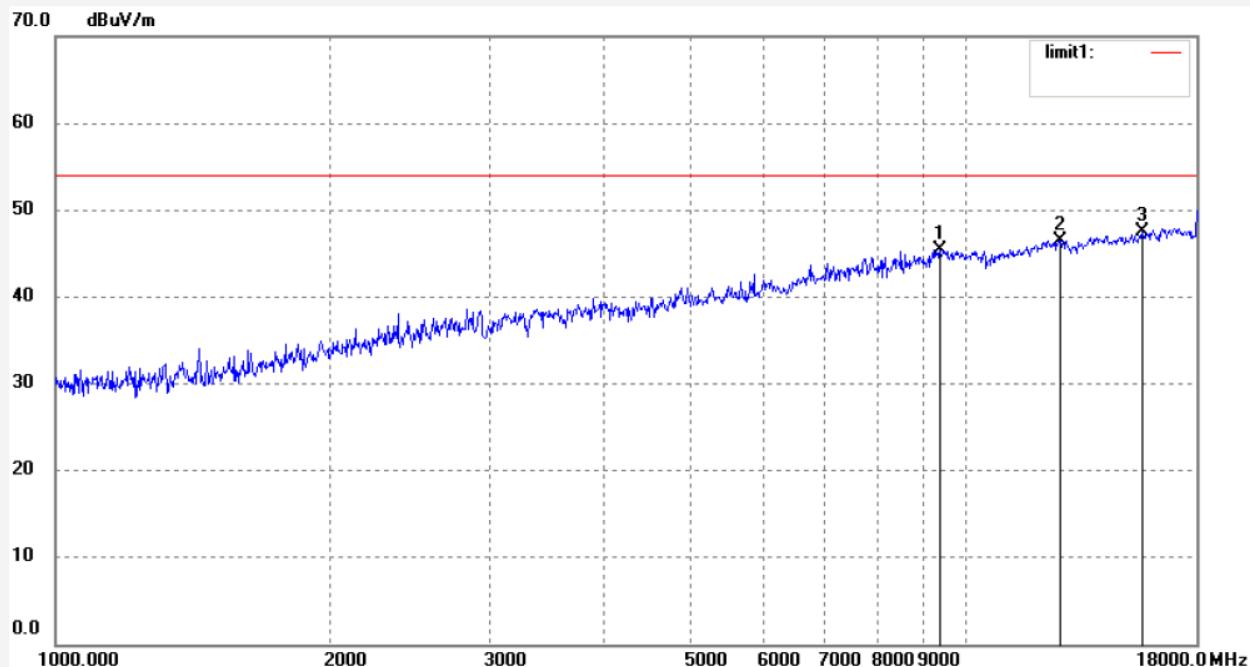
Mode: TX Channel 6(802.11g)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9405.317	35.94	9.42	45.36	54.00	-8.64	peak			
2	12730.400	7.81	38.68	46.49	54.00	-7.51	peak			
3	15698.523	7.45	40.06	47.51	54.00	-6.49	peak			



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Site: 2# Chamber

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Job No.: carry #388

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/59/18

EUT: MID

Engineer Signature:

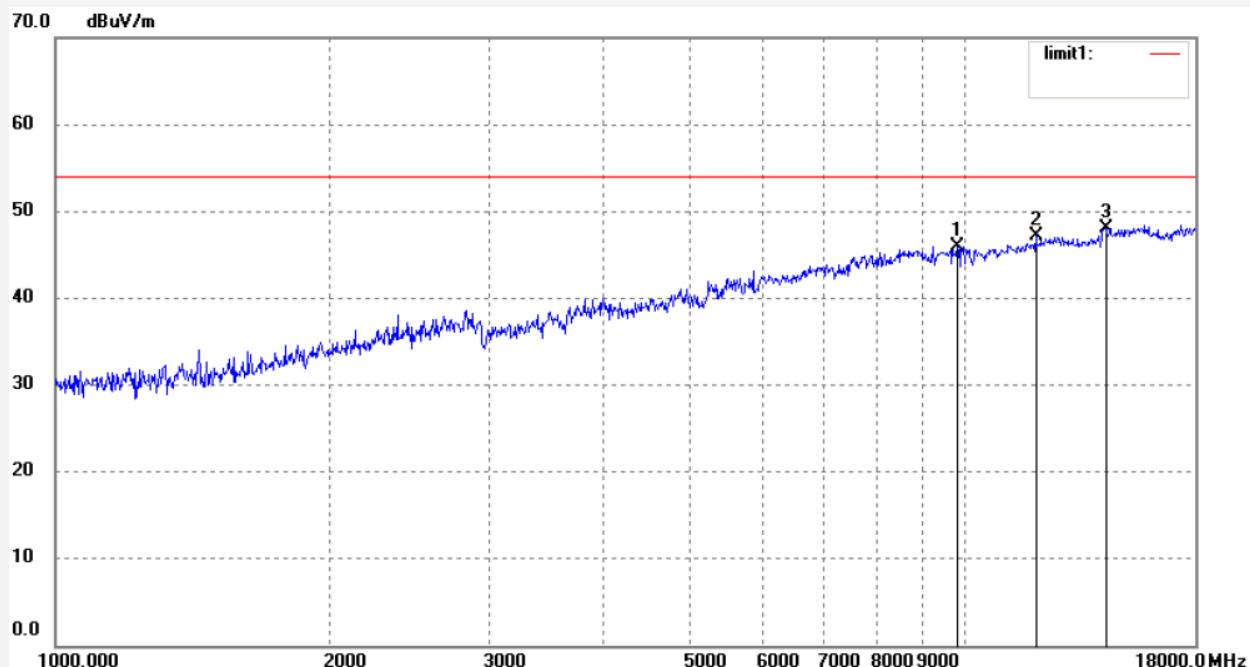
Mode: TX Channel 11(802.11g)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9853.701	36.36	9.65	46.01	54.00	-7.99	peak			
2	12010.460	36.75	10.47	47.22	54.00	-6.78	peak			
3	14344.025	6.12	41.91	48.03	54.00	-5.97	peak			



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Job No.: carry #389

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 9/59/46

EUT: MID

Engineer Signature:

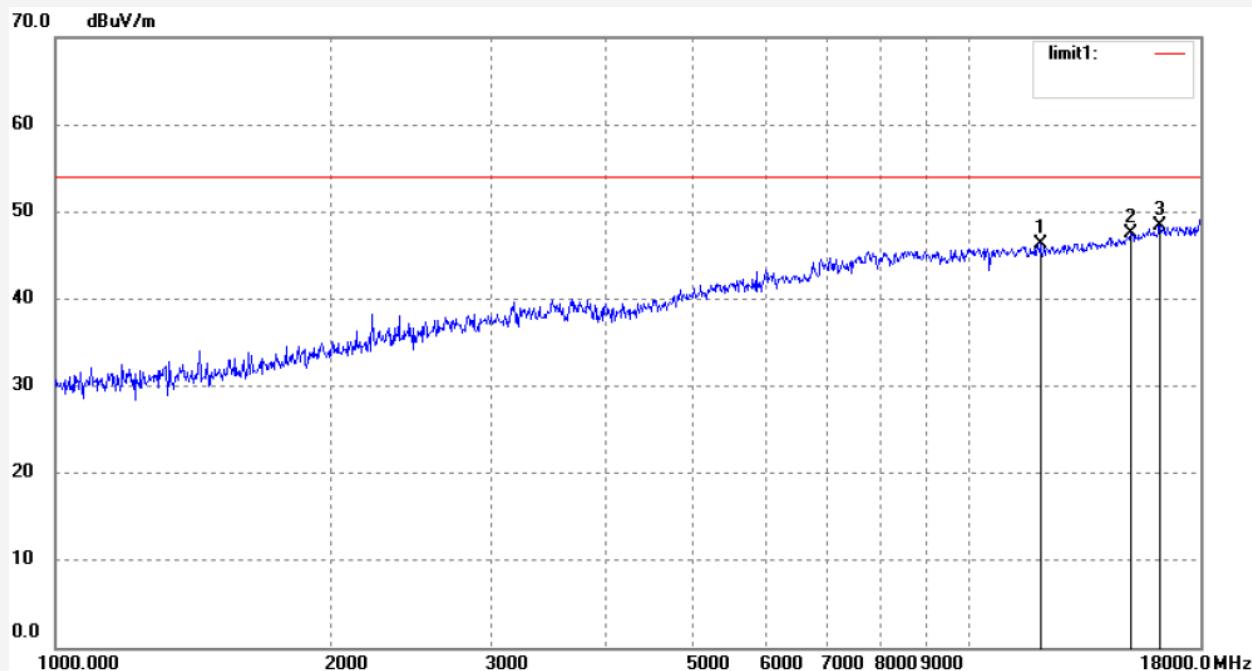
Mode: TX Channel 11(802.11g)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12010.460	35.75	10.47	46.22	54.00	-7.78	peak			
2	15115.594	6.57	40.87	47.44	54.00	-6.56	peak			
3	16256.545	8.27	40.15	48.42	54.00	-5.58	peak			



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Job No.: carry #390

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/00/41

EUT: MID

Engineer Signature:

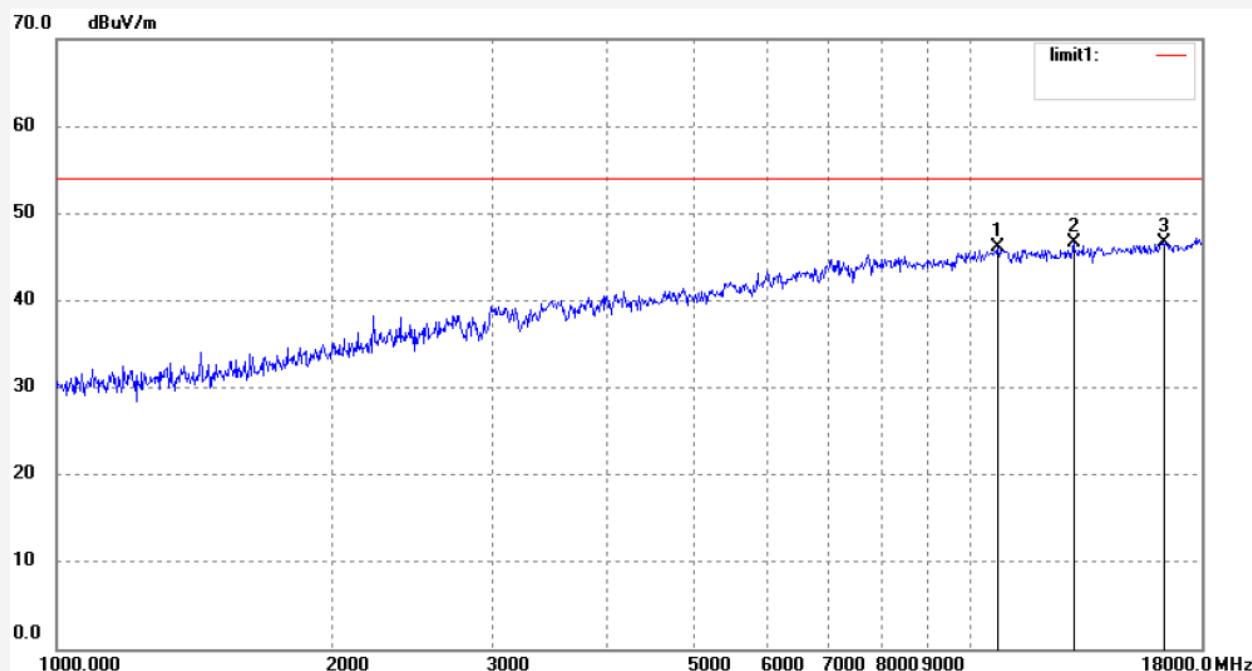
Mode: TX Channel 1(802.11n20)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



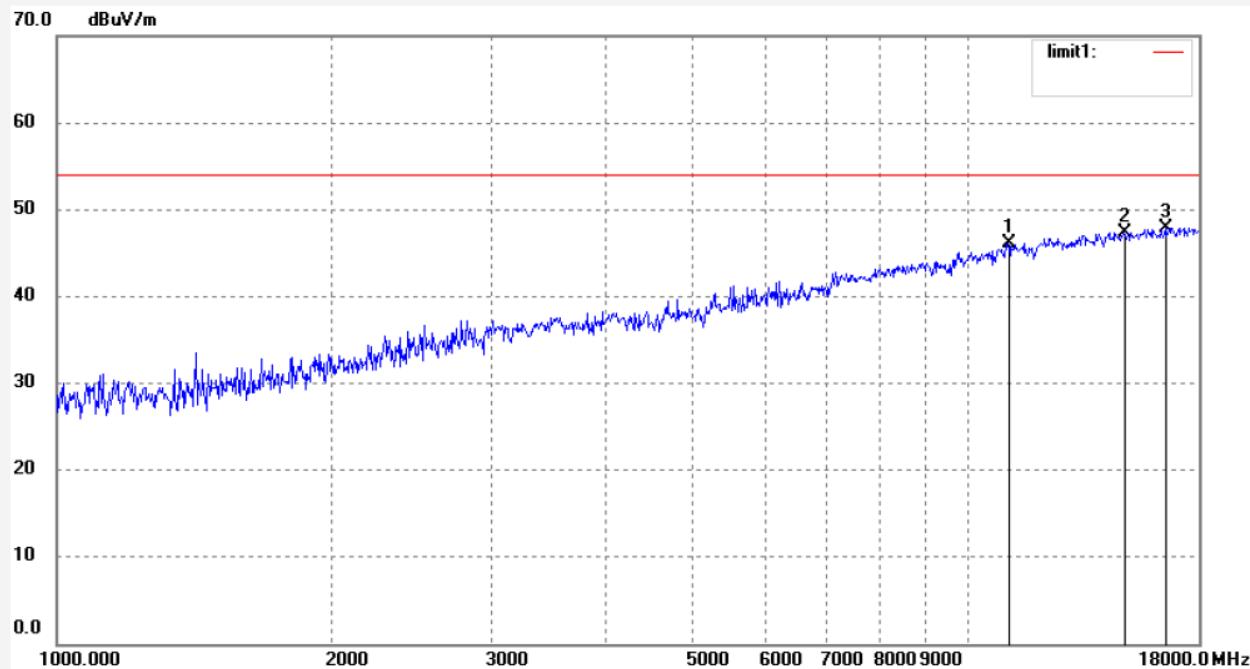
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10752.836	37.26	8.81	46.07	54.00	-7.93	peak			
2	13030.319	7.56	39.04	46.60	54.00	-7.40	peak			
3	16303.933	6.54	40.18	46.72	54.00	-7.28	peak			



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Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	carry #391	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/10/14/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	10/02/24
EUT:	MID	Engineer Signature:	
Mode:	TX Channel 1(802.11n20)	Distance:	3m
Model:	M7XX		
Manufacturer:	SungWorld		
Note:	Report NO.:ATE20141876		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11102.694	36.61	9.58	46.19	54.00	-7.81	peak			
2	14897.199	5.97	41.41	47.38	54.00	-6.62	peak			
3	16542.951	7.50	40.42	47.92	54.00	-6.08	peak			



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Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: carry #392

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/03/34

EUT: MID

Engineer Signature:

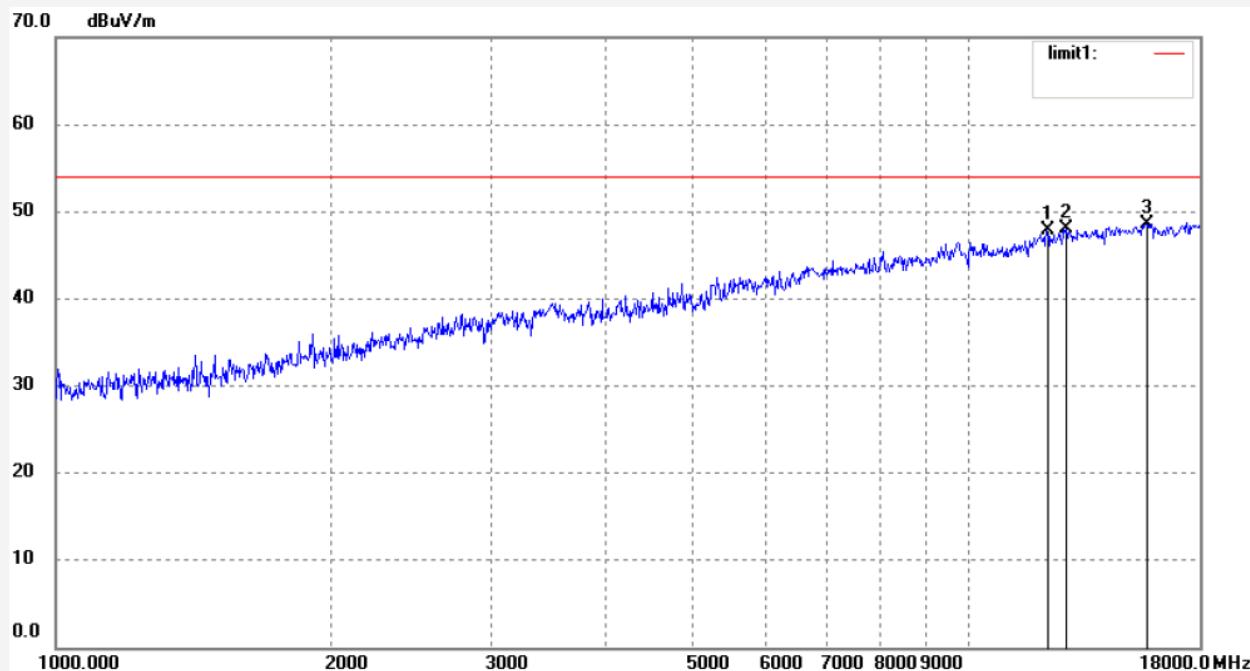
Mode: TX Channel 6(802.11n20)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12222.059	9.76	38.12	47.88	54.00	-6.12	peak			
2	12842.052	9.30	38.81	48.11	54.00	-5.89	peak			
3	15744.284	8.56	40.05	48.61	54.00	-5.39	peak			



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Fax:+86-0755-26503396

Job No.: carry #393

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/05/02

EUT: MID

Engineer Signature:

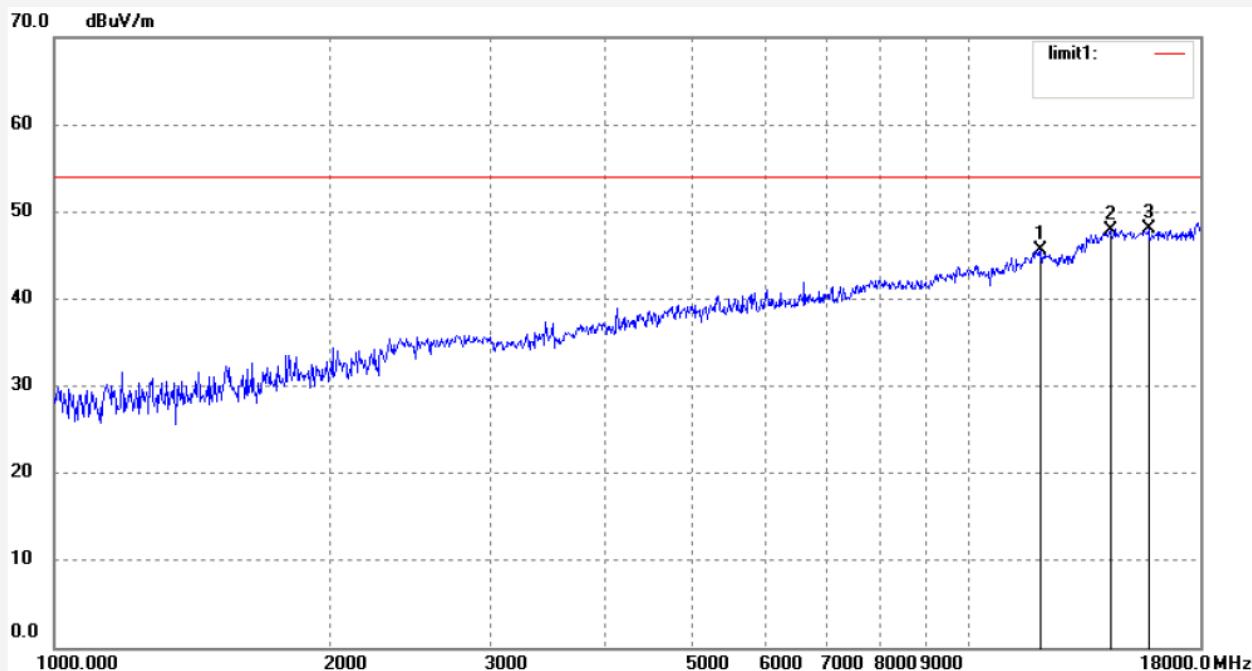
Mode: TX Channel 6(802.11n20)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12045.470	35.25	10.39	45.64	54.00	-8.36	peak			
2	14344.025	6.01	41.91	47.92	54.00	-6.08	peak			
3	15790.179	8.05	40.04	48.09	54.00	-5.91	peak			



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Fax:+86-0755-26503396

Job No.: carry #394

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/06/17

EUT: MID

Engineer Signature:

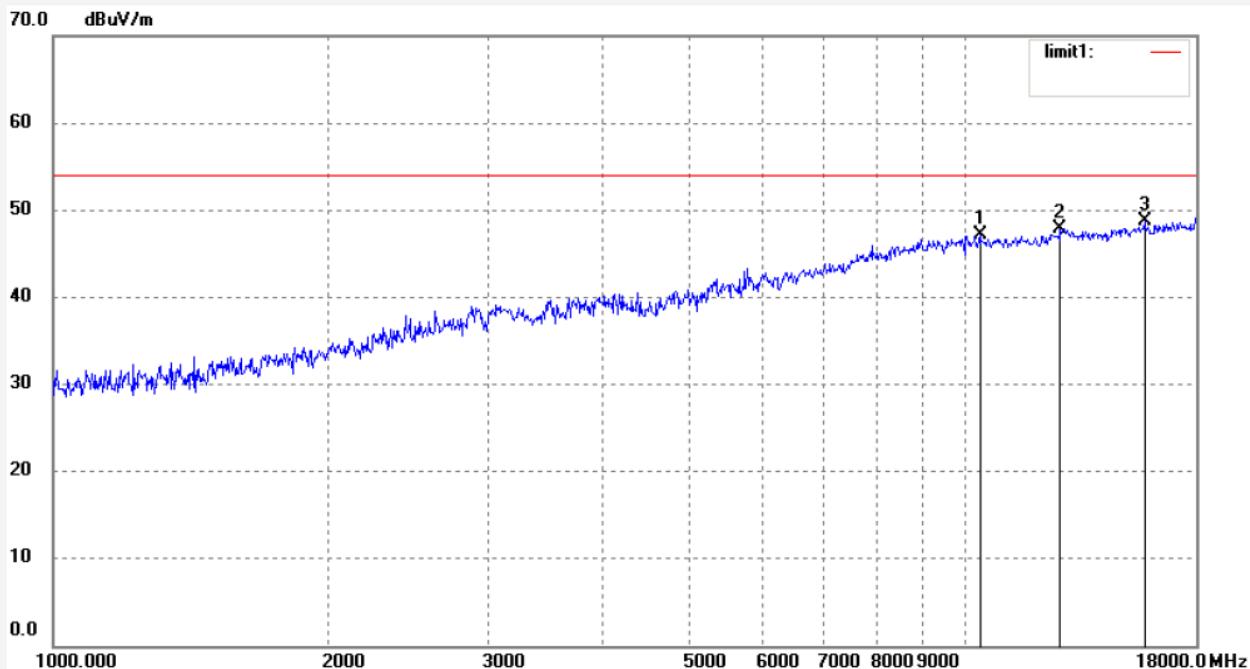
Mode: TX Channel 11(802.11n20)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



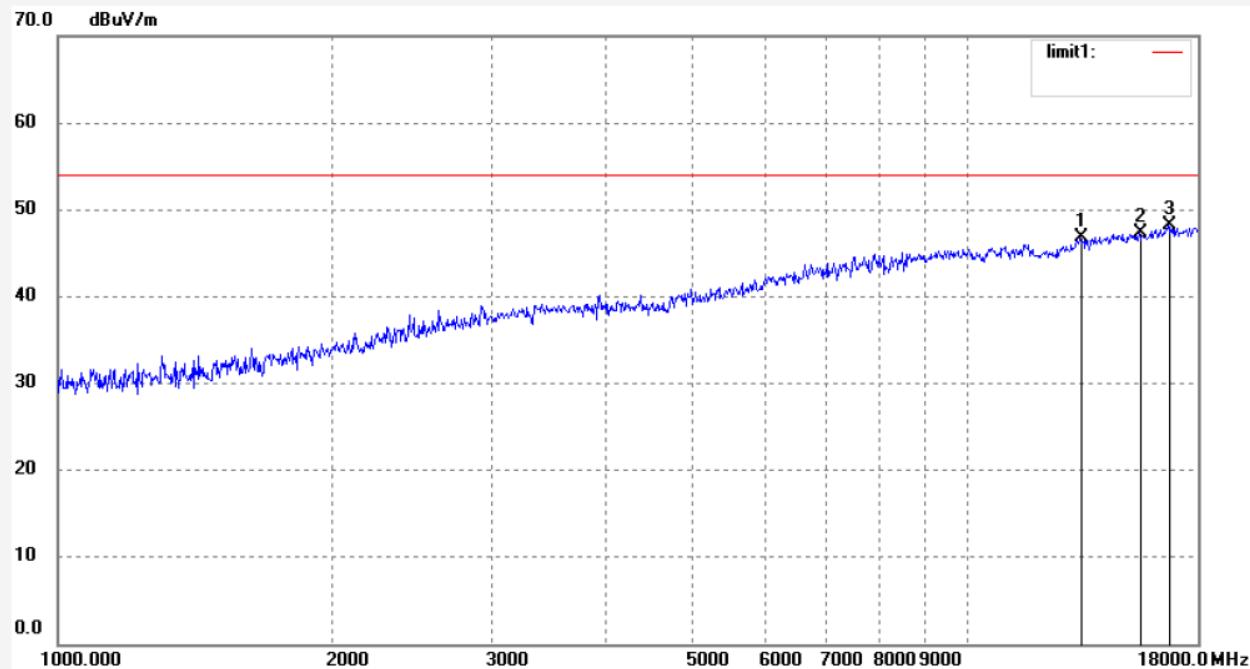
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10414.003	38.29	8.83	47.12	54.00	-6.88	peak			
2	12767.509	9.15	38.72	47.87	54.00	-6.13	peak			
3	15790.179	8.65	40.04	48.69	54.00	-5.31	peak			



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Tel:+86-0755-26503290
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Job No.:	carry #395	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/10/14/
Temp.(C)/Hum.(%)	23 C / 48 %	Time:	10/06/53
EUT:	MID	Engineer Signature:	
Mode:	TX Channel 11(802.11n20)	Distance:	3m
Model:	M7XX		
Manufacturer:	SungWorld		
Note:	Report NO.:ATE20141876		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13376.181	7.30	39.45	46.75	54.00	-7.25	peak			
2	15516.806	7.22	40.10	47.32	54.00	-6.68	peak			
3	16688.041	7.38	40.83	48.21	54.00	-5.79	peak			



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Job No.: carry #396

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/07/40

EUT: MID

Engineer Signature:

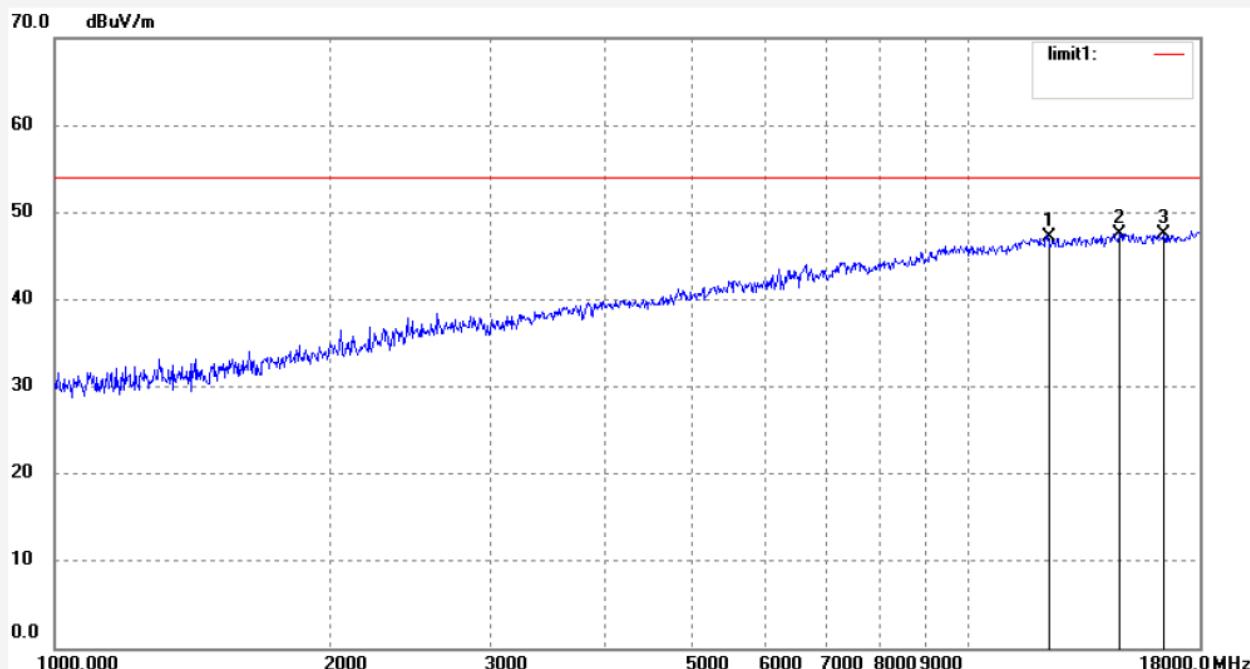
Mode: TX Channel 3(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12257.686	9.09	38.16	47.25	54.00	-6.75	peak			
2	14681.959	5.51	42.05	47.56	54.00	-6.44	peak			
3	16446.926	7.25	40.27	47.52	54.00	-6.48	peak			



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Fax:+86-0755-26503396

Job No.: carry #397

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/08/16

EUT: MID

Engineer Signature:

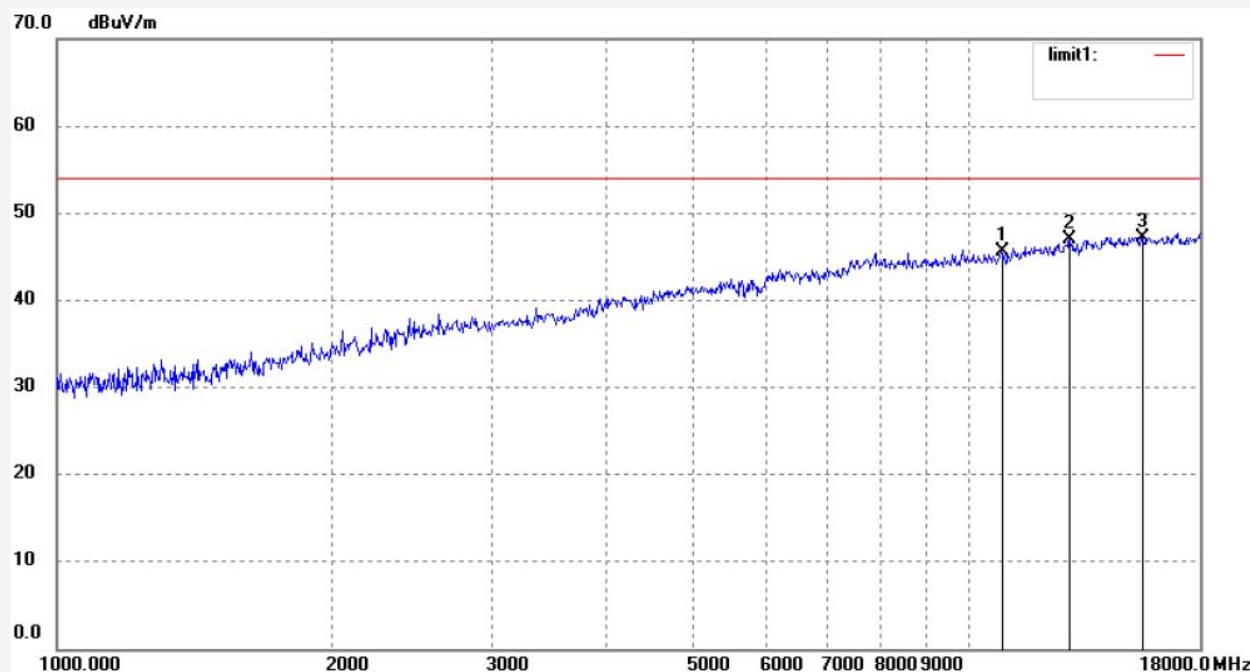
Mode: TX Channel 3(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10878.763	36.46	9.14	45.60	54.00	-8.40	peak			
2	12954.683	7.97	38.95	46.92	54.00	-7.08	peak			
3	15516.806	7.11	40.10	47.21	54.00	-6.79	peak			

Job No.: carry #398

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/09/02

EUT: MID

Engineer Signature:

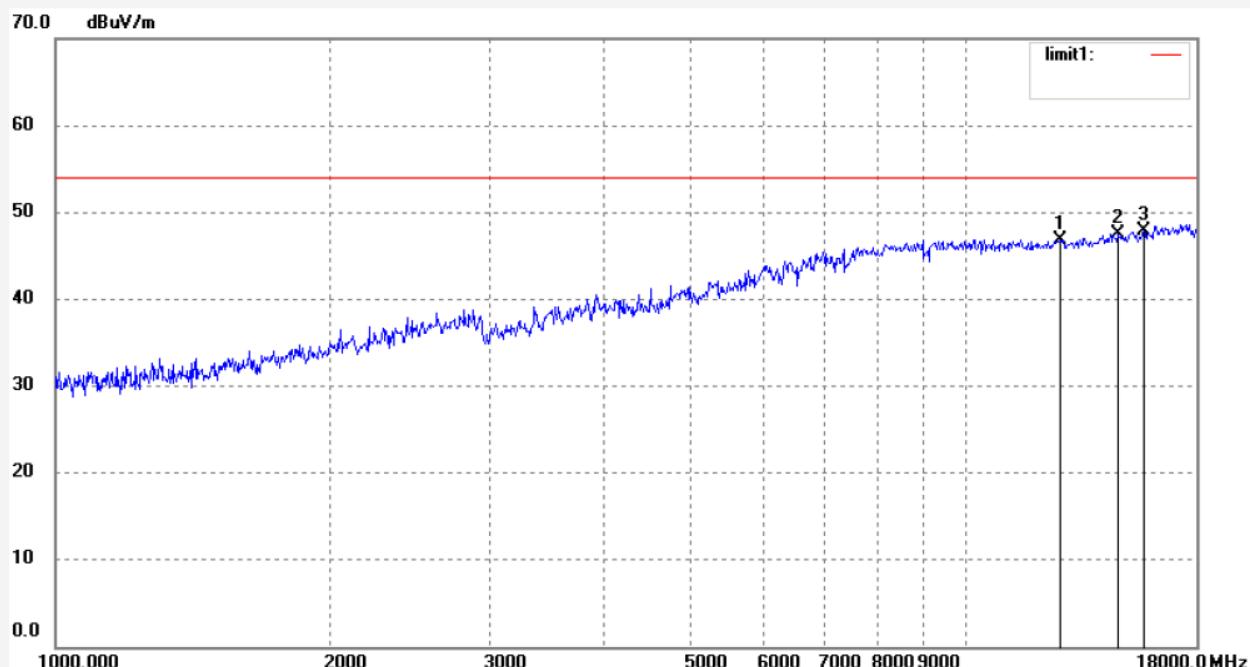
Mode: TX Channel 6(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12767.509	8.15	38.72	46.87	54.00	-7.13	peak			
2	14767.679	5.64	41.80	47.44	54.00	-6.56	peak			
3	15744.284	7.78	40.05	47.83	54.00	-6.17	peak			



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Site: 2# Chamber

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Job No.: carry #399

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/09/56

EUT: MID

Engineer Signature:

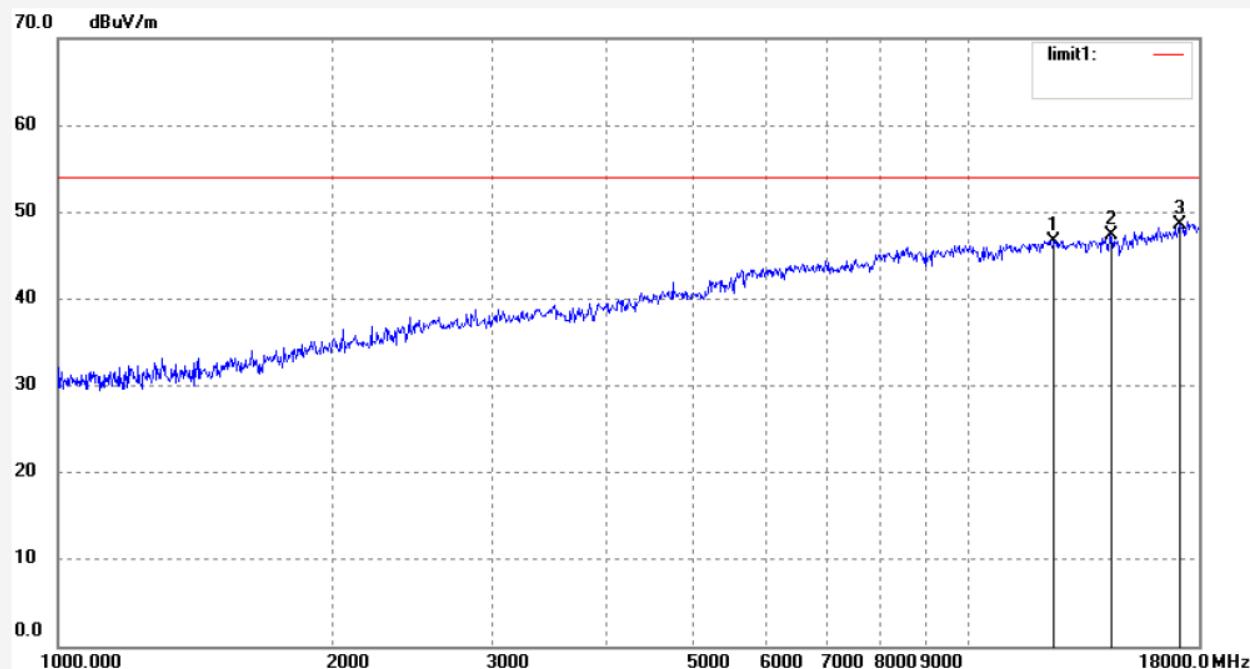
Mode: TX Channel 6(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12473.640	8.32	38.37	46.69	54.00	-7.31	peak			
2	14385.838	5.31	42.10	47.41	54.00	-6.59	peak			
3	17130.989	6.29	42.22	48.51	54.00	-5.49	peak			



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: carry #400

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/11/00

EUT: MID

Engineer Signature:

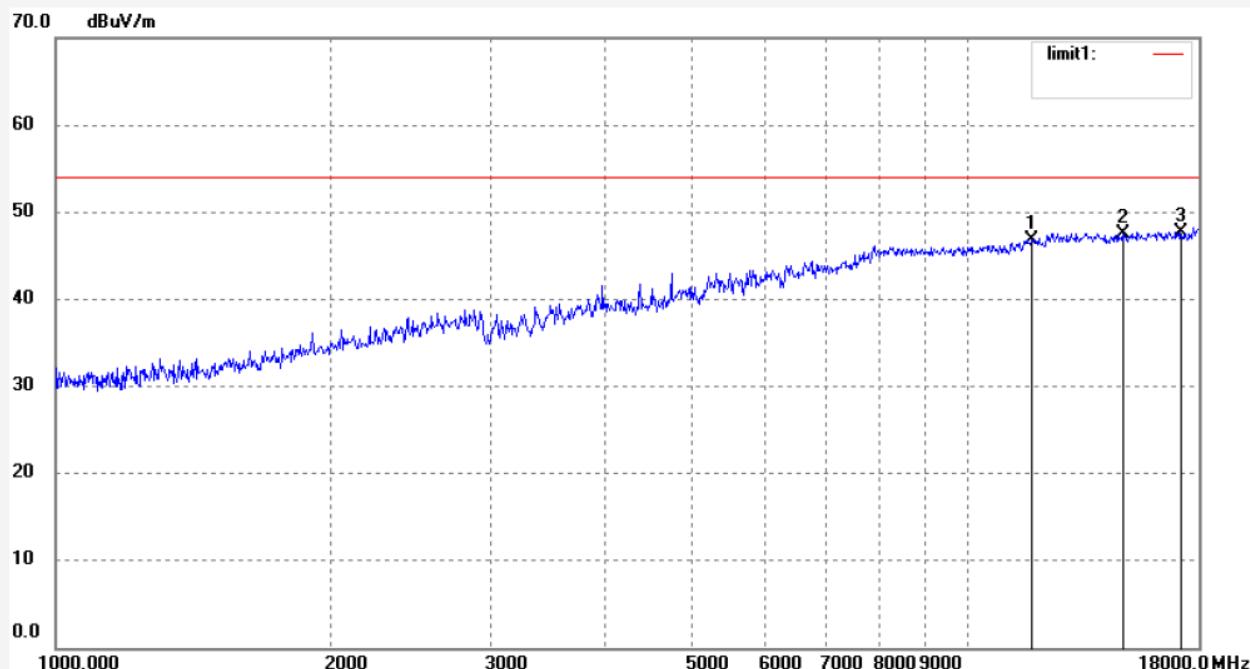
Mode: TX Channel 9(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11802.524	34.79	12.06	46.85	54.00	-7.15	peak			
2	14853.900	6.00	41.54	47.54	54.00	-6.46	peak			
3	17180.926	5.34	42.42	47.76	54.00	-6.24	peak			



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: carry #401

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/10/14/

Temp.(C)/Hum.(%) 23 C / 48 %

Time: 10/11/21

EUT: MID

Engineer Signature:

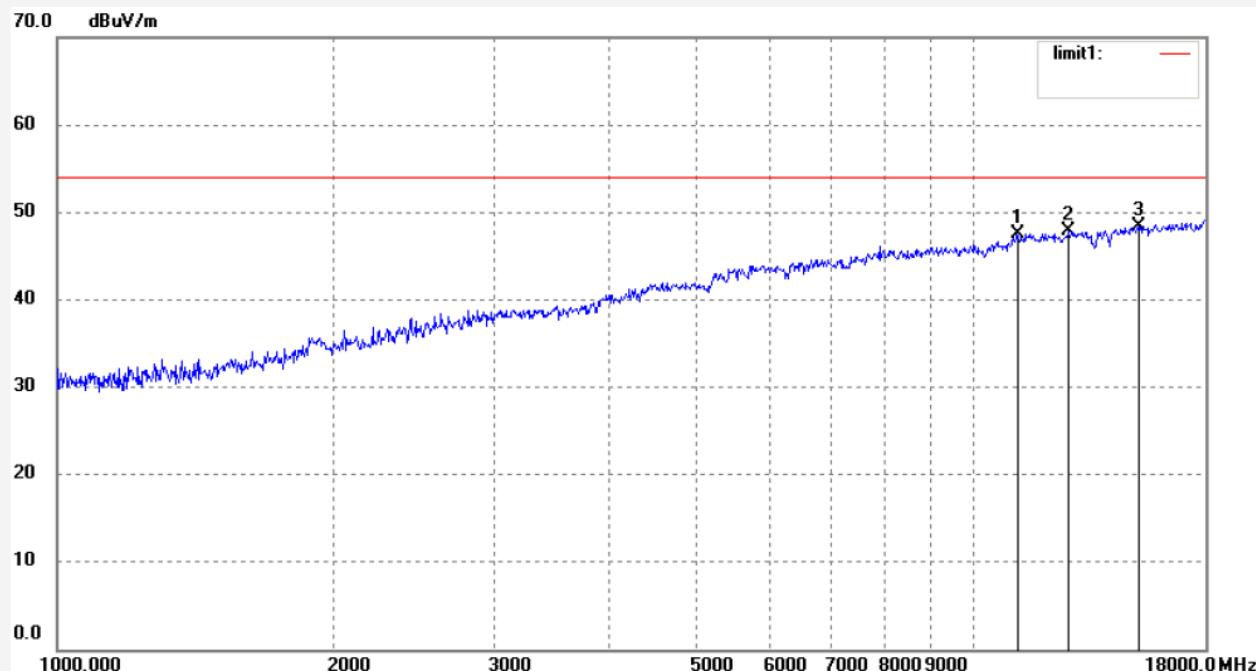
Mode: TX Channel 9(802.11n40)

Distance: 3m

Model: M7XX

Manufacturer: SungWorld

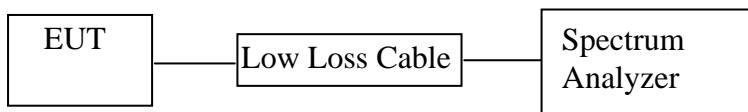
Note: Report NO.:ATE20141876



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11200.070	37.77	9.76	47.53	54.00	-6.47	peak			
2	12767.509	9.15	38.72	47.87	54.00	-6.13	peak			
3	15248.165	7.83	40.60	48.43	54.00	-5.57	peak			

11.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

11.1.Block Diagram of Test Setup



11.2.The Requirement For Section 15.247(d)

Section 15.247(d): 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 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).

11.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

11.5. Test Procedure

11.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

11.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

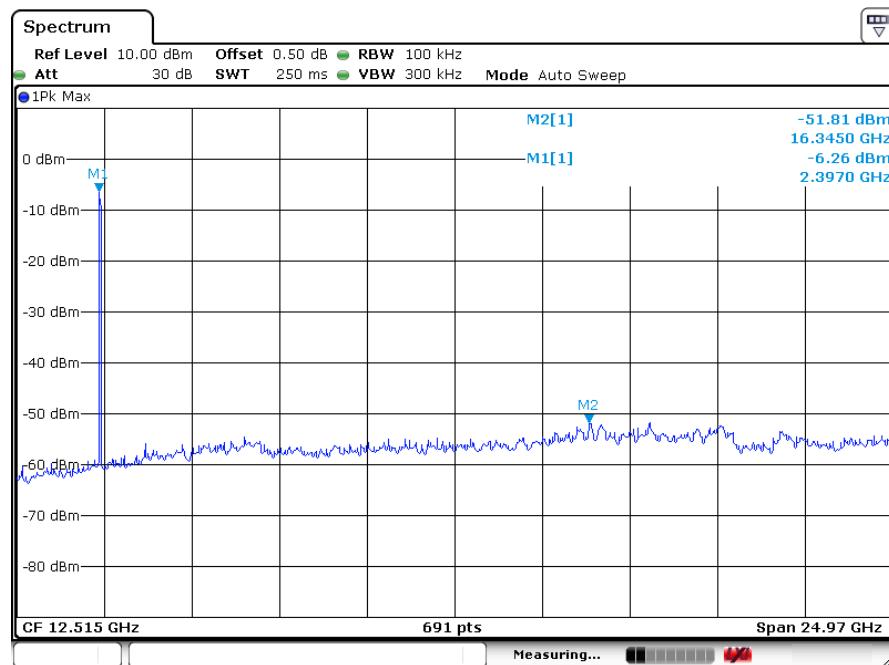
11.5.3. The Conducted Spurious Emission was measured and recorded.

11.6. Test Result

Pass.

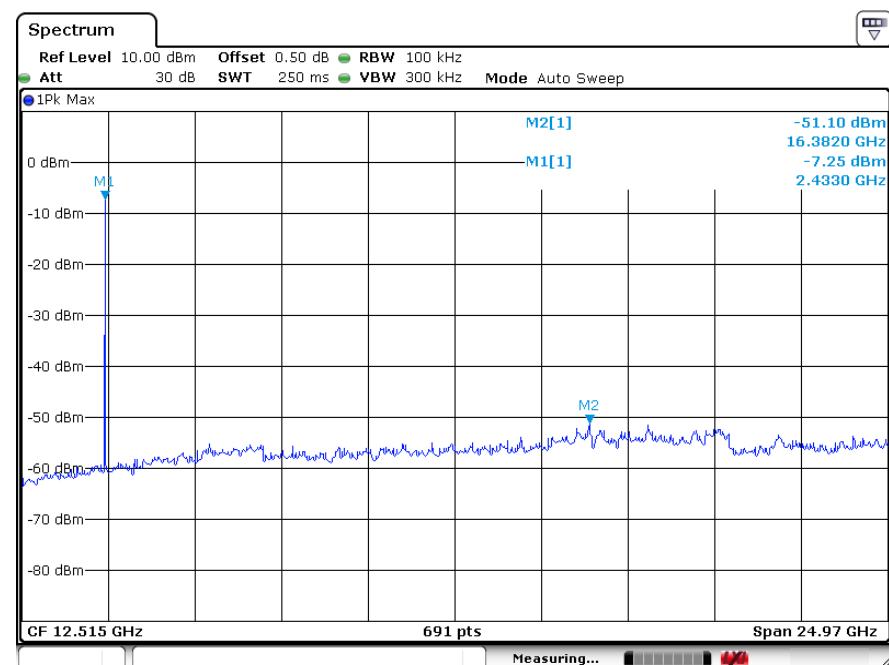
The spectrum analyzer plots are attached as below.

TX 802.11b Channel Low 2412MHz

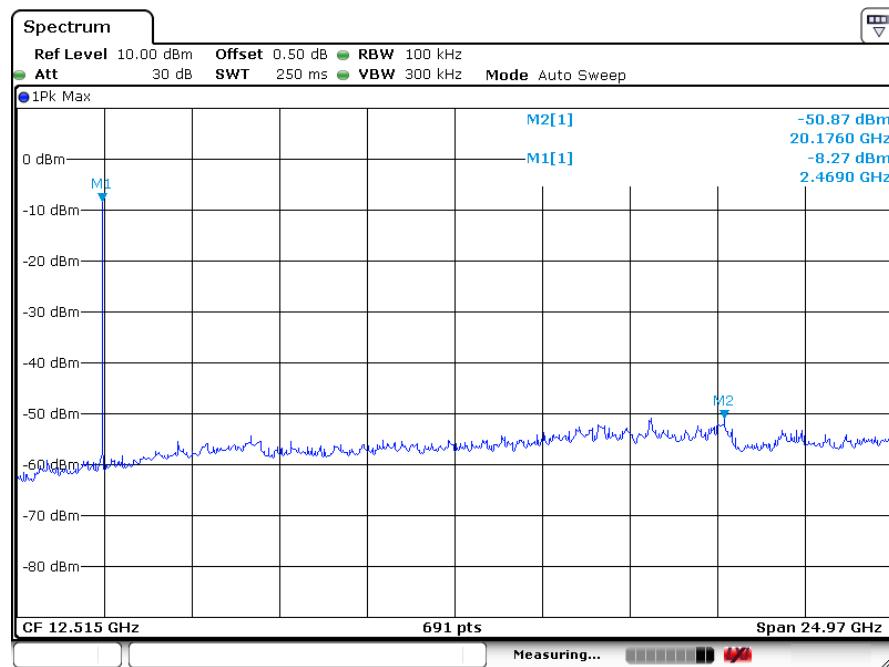
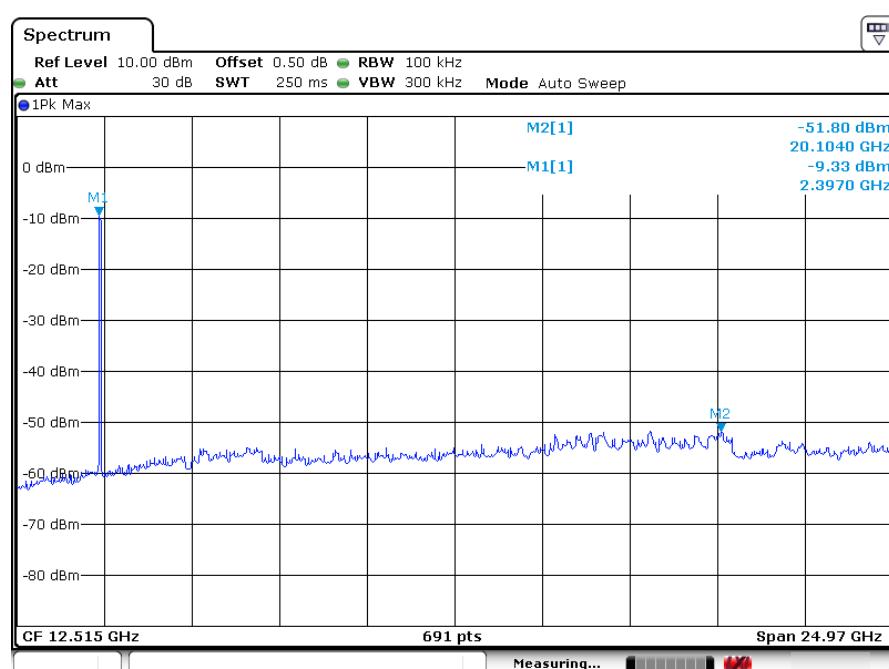


Date: 14.Oct.2014 10:48:13

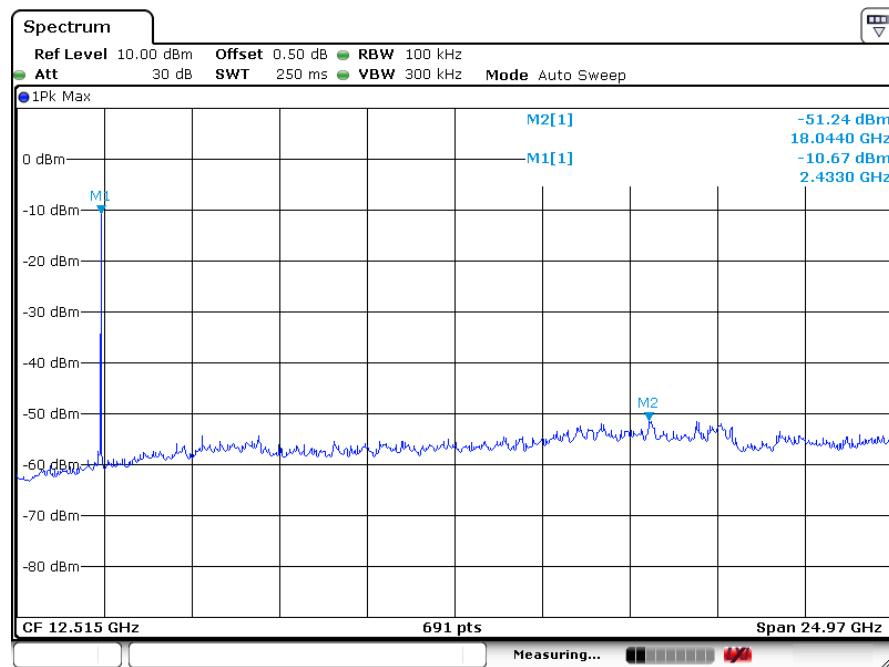
TX 802.11b Channel Middle 2437MHz



Date: 14.Oct.2014 10:47:00

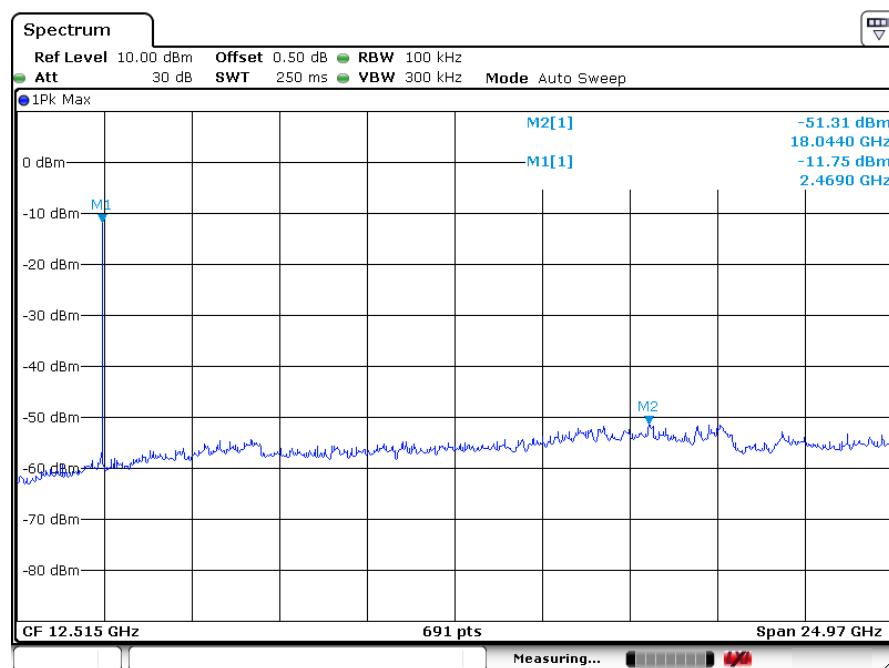
TX 802.11b Channel High 2462MHz**TX 802.11g Channel Low 2412MHz**

TX 802.11g Channel Middle 2437MHz



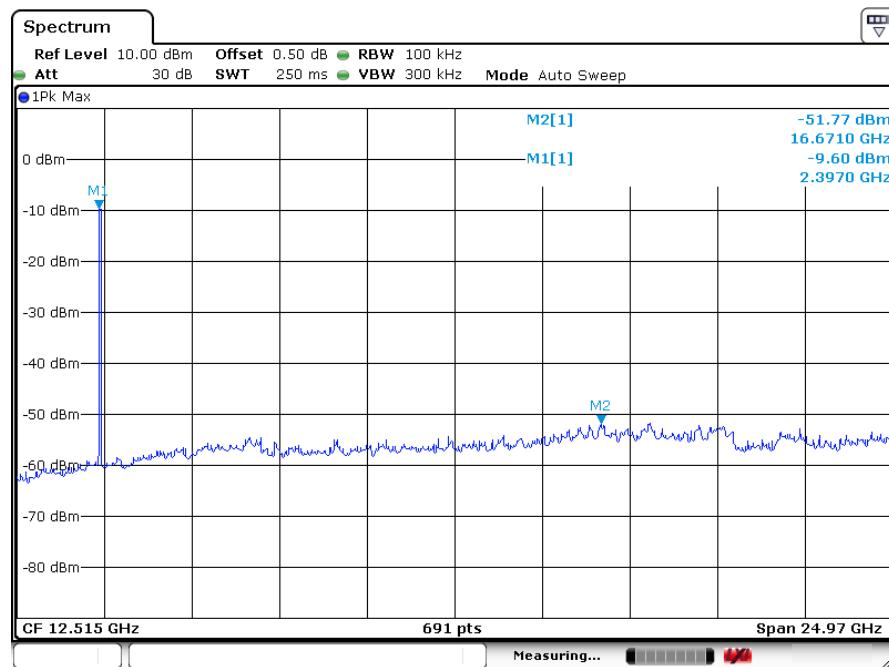
Date: 14.Oct.2014 10:53:11

TX 802.11g Channel High 2462MHz

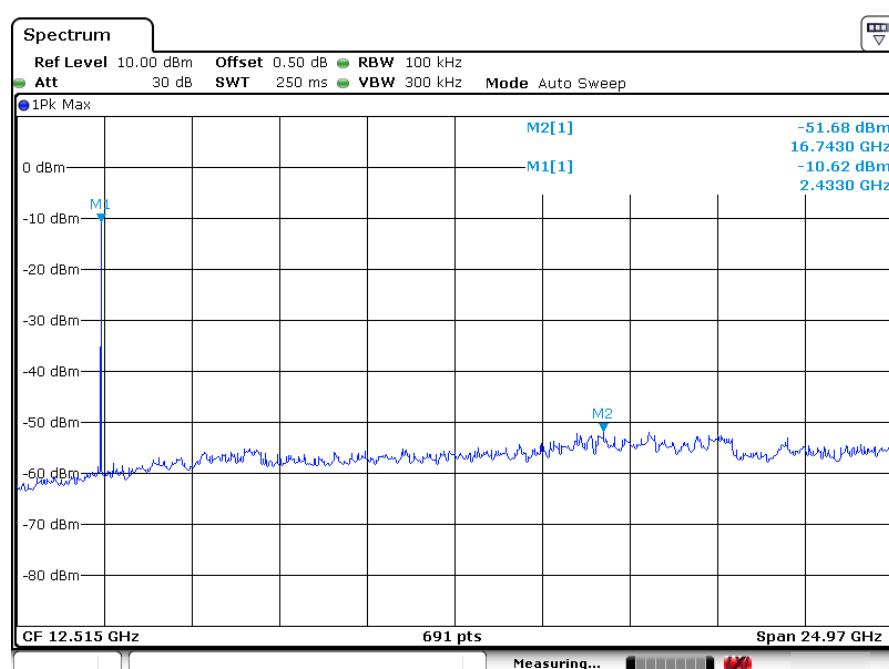


Date: 14.Oct.2014 10:52:12

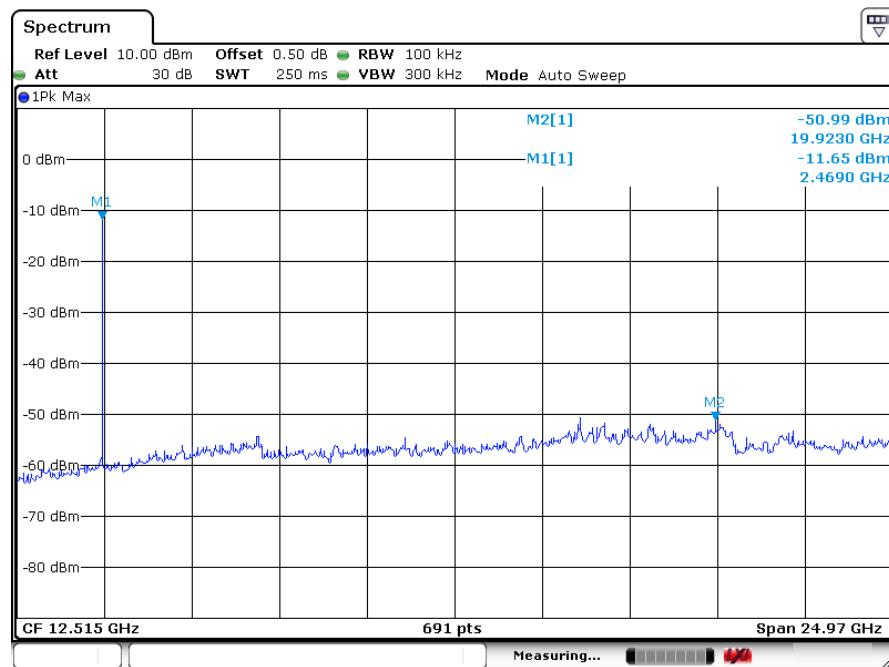
TX 802.11n Channel Low 2412MHz (20MHz)



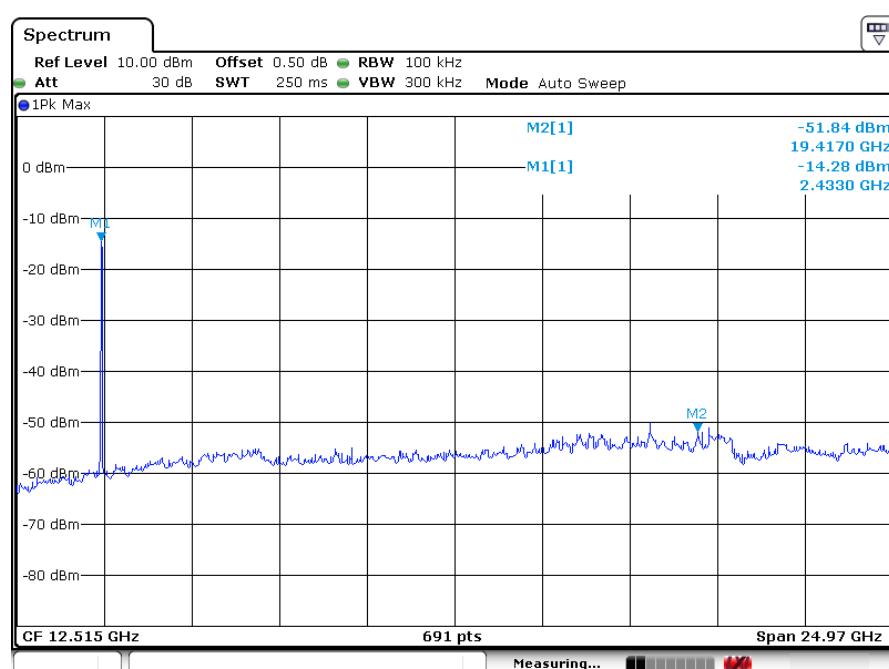
TX 802.11n Channel Middle 2437MHz (20MHz)



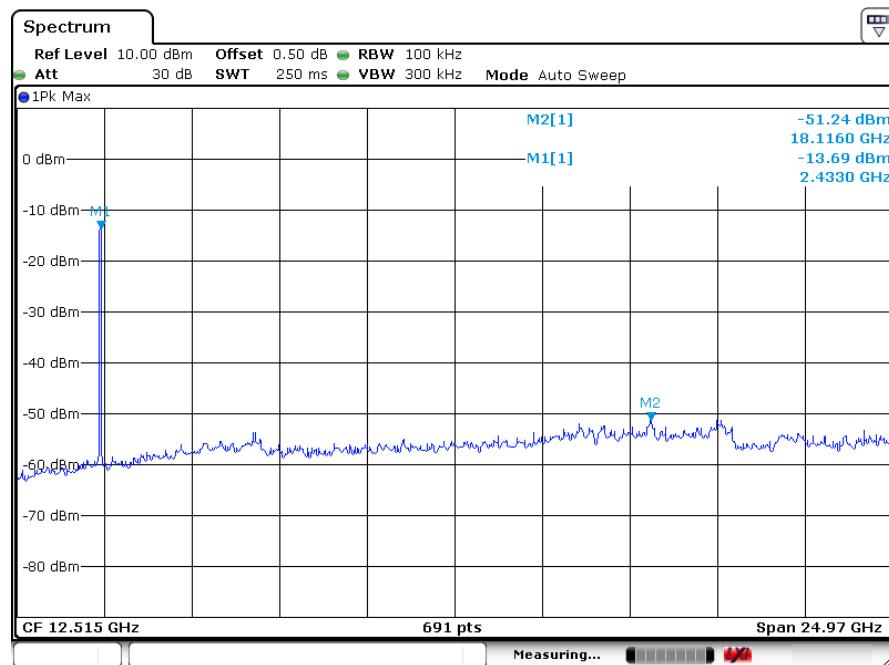
TX 802.11n Channel High 2462MHz (20MHz)



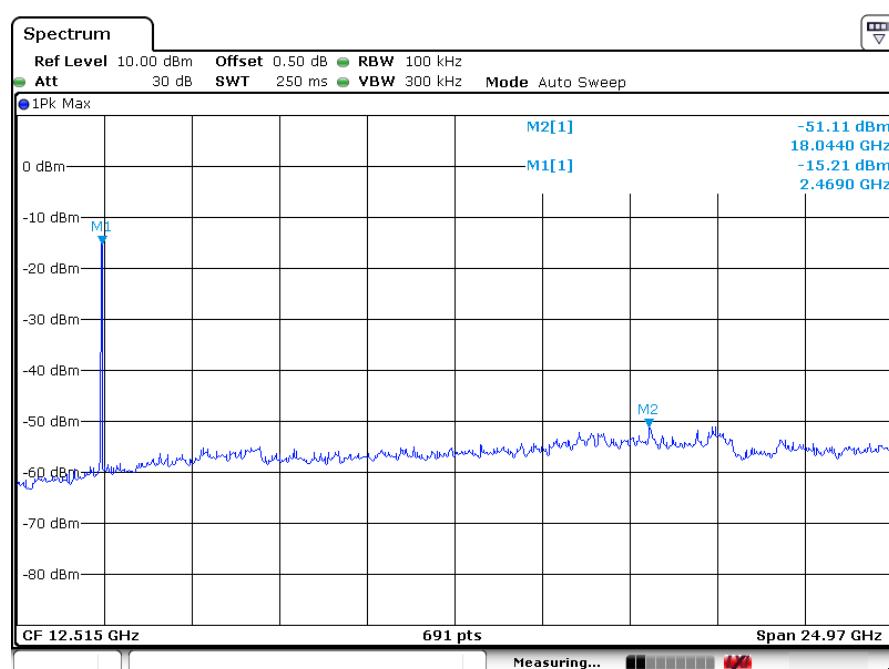
TX 802.11n Channel Low 2422MHz (40MHz)



TX 802.11n Channel Middle 2437MHz (40MHz)



TX 802.11n Channel High 2452MHz (40MHz)



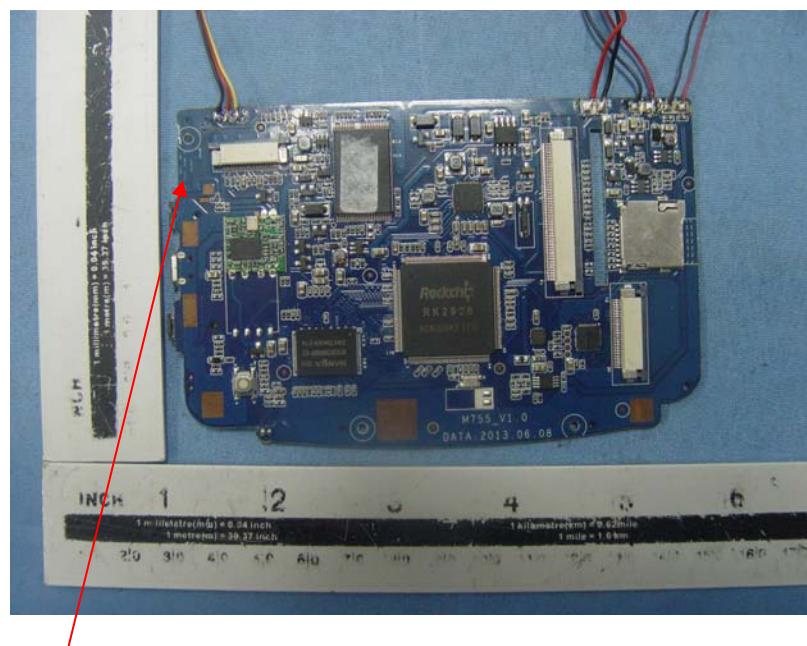
12. ANTENNA REQUIREMENT

12.1. The Requirement

According to Section 15.203, 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.

12.2. Antenna Construction

Device is equipped with PCB antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna