FCC 47 CFR PART 15 SUBPART E

Product Type	:	Wi-Fi Network Speaker
Applicant	:	Polk Audio
Address	:	5601 Metro Drive, Baltimore , Maryland , United States, 21215
Trade Name	:	Polk Audio
Model Number	:	Omni S2, Omni S2 Rechargeable
Test Specification	:	FCC 47 CFR PART 15 SUBPART E: Oct., 2013 Canada RSS-210 ISSUE 8: Dec., 2010 Canada RSS-Gen ISSUE 3: Dec., 2010 ANSI C63.4-2009
Application Purpose	:	Original
Receive Date	:	Jun. 16, 2014
Test Period	:	Jun. 17 ~ Jul. 18, 2014
Issue Date	:	Jul. 29, 2014

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	Jul. 29, 2014	Initial Issue	

Verification of Compliance

Issued Date: 07/29/2014

Product Type	:	Wi-Fi Network Speaker
Applicant	:	Polk Audio
Address	:	5601 Metro Drive, Baltimore , Maryland , United States, 21215
Trade Name	:	Polk Audio
Model Number	:	Omni S2, Omni S2 Rechargeable
FCC ID	:	WLQOMNIS2
IC	:	7956A-OMNIS2
EUT Rated Voltage	:	Omni S2：DC 24V, 1.0A Omni S2 Rechargeable：DC 24V, 1.25A
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART E: Oct., 2013 Canada RSS-210 ISSUE 8: Dec., 2010 Canada RSS-Gen ISSUE 3: Dec., 2010 ANSI C63.10-2009 ANSI C63.4-2009
Test Result	:	Complied
Application Purpose	:	Original
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan R.O.C. Tel：+86-3-2710188 / Fax：+86-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By	:	Fly Lu	Reviewed By	: Eric Ou Yang
(Manager)		(Fly Lu)	(Testing Engineer)	(Eric Ou Yang)

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1 General Information

1.1. Summary of Test Result

Standard		Item	Result	Remark
FCC	IC			
15.407(b)(6) 15.207	RSS-Gen 7.2.4	AC Power Conducted Emission	PASS	---
15.407(b) 15.205 / 15.209	RSS-210 A9.2	Radiated Emission	PASS	---
15.407(a)	RSS-210 A9.2	Maximum Conducted Output Power	PASS	---
15.407(a)	RSS-210 A9.2	26dB RF Bandwidth	Reference	---
15.407(a)	RSS-A8.2 (a)	6dB RF Bandwidth	PASS	-----
15.407(a)	RSS-210 A9.2	Peak Power Spectral Density	PASS	---
15.407(g)	RSS-210 A9.5	Frequency Stability	PASS	---
15.407(a) 15.203	RSS-210 A9.2	Antenna Requirement	PASS	---

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2. Measurement Uncertainty

Measurement Item	Frequency Range		Uncertainty (dB)
Conducted Emission	9kHz ~ 30MHz		± 2.020
Radiated Emission	30MHz ~ 1000MHz	Horizontal	± 3.960
		Vertical	± 3.570
	1000MHz ~ 18000MHz	Horizontal	± 3.072
		Vertical	± 3.028
	18000MHz ~ 40000MHz	Horizontal	± 3.622
		Vertical	± 3.506

2 EUT Description

Product Type	Wi-Fi Network Speaker			
Trade Name	Polk Audio			
Model No.	Omni S2, Omni S2 Rechargeable			
Difference Description	Omni S2 : (1)This model has not battery and battery charge function. (2)This model use two TX/RX antenna both are METAL STAMPING ANTENNA. Omni S2 Rechargeable: (1)This model has battery and battery charge function. (2)This model use two TX/RX antenna, one is METAL STAMPING ANTENNA and another is External antenna.			
Applicant	Polk Audio 5601 Metro Drive, Baltimore , Maryland , United States, 21215			
Manufacturer	Zylux Acoustic Corporation 3F, 22, Lane 35, Jihu Road, Taipei NeiHu Technology Park, Taipei 11492, Taiwan			
FCC ID	WLQOMNIS2			
IC	7956A-OMNIS2			
Frequency Range	Band	Mode	Frequency Range (MHz)	Number of Channels
	U-NII Band I	IEEE 802.11a	5180 – 5240	4 Channels
		IEEE 802.11n 20 MHz	5180 – 5240	4 Channels
		IEEE 802.11n 40 MHz	5190 – 5230	2 Channels
	U-NII Band II-A	IEEE 802.11a	5260 – 5320	4 Channels
		IEEE 802.11n 20 MHz	5260 – 5320	4 Channels
		IEEE 802.11n 40 MHz	5270 – 5310	2 Channels
	U-NII Band II-C	IEEE 802.11a	5500 – 5700	11 Channels
		IEEE 802.11n 20 MHz	5500 – 5700	11 Channels
		IEEE 802.11n 40 MHz	5510 – 5670	5 Channels
	U-NII Band III	IEEE 802.11a	5745 – 5825	5 Channels
		IEEE 802.11n 20 MHz	5745 – 5825	5 Channels
		IEEE 802.11n 40 MHz	5755 – 5795	2 Channels
	*The 5600 – 5650MHz can not be used in Canada.			
Modulation Type	OFDM			
Antenna Used	Trade Name	Model Number	Type	Max. Gain
	LinkTek	1029-000080	EXTERNAL ANTENNA	2.11 dBi
	MAG.LAYERS	MSA-3310-25GC4-A1	METAL STAMPING ANTENNA	3.92 dBi
Antenna Delivery	1TX + 1RX			

RF Output Power	IEEE 802.11a U-NII Band I : 0.023 W / 13.61 dBm
	IEEE 802.11a U-NII Band II-A : 0.023 W / 13.60 dBm
	IEEE 802.11a U-NII Band II-C : 0.017 W / 12.22 dBm
	IEEE 802.11a U-NII Band III : 0.018 W / 12.49 dBm
	IEEE 802.11n 20MHz U-NII Band I: 0.015 W / 11.76 dBm
	IEEE 802.11n 20MHz U-NII Band II-A: 0.014 W / 11.42 dBm
	IEEE 802.11n 20MHz U-NII Band II-C: 0.011 W / 10.52 dBm
	IEEE 802.11n 20MHz U-NII Band III: 0.011 W / 10.35 dBm
	IEEE 802.11n 40MHz U-NII Band I: 0.014 W / 11.47 dBm
	IEEE 802.11n 40MHz U-NII Band II-A: 0.014W / 11.39 dBm
	IEEE 802.11n 40MHz U-NII Band II-C: 0.014 W / 11.41 dBm
	IEEE 802.11n 40MHz U-NII Band III: 0.011 W / 10.35 dBm
Emission Designator	IEEE 802.11a U-NII Band I : 18M0GXW
	IEEE 802.11a U-NII Band II-A : 17M9GXW
	IEEE 802.11a U-NII Band II-C : 17M6GXW
	IEEE 802.11a U-NII Band III : 16M5GXW
	IEEE 802.11n 20MHz U-NII Band I: 18M4GXW
	IEEE 802.11n 20MHz U-NII Band II-A: 18M4GXW
	IEEE 802.11n 20MHz U-NII Band II-C: 18M31GXW
	IEEE 802.11n 20MHz U-NII Band III: 17M7GXW
	IEEE 802.11n 40MHz U-NII Band I: 36M9GXW
	IEEE 802.11n 40MHz U-NII Band II-A: 36M8GXW
	IEEE 802.11n 40MHz U-NII Band II-C: 36M8GXW
	IEEE 802.11n 40MHz U-NII Band III: 35M9GXW

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11a Link Mode
Mode 3: IEEE 802.11n 20MHz Link Mode
Mode 4: IEEE 802.11n 40MHz Link Mode
Mode 5: Receiver Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.
After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

IEEE 802.11a mode / 5180 ~ 5240MHz:
Channel Low (5180MHz), Channel Mid (5220MHz) and Channel High (5240MHz) with 6Mbps data rate were chosen for full testing.
IEEE 802.11a mode / 5260 ~ 5320MHz:
Channel Low (5260MHz), Channel Mid (5280MHz) and Channel High (5320MHz) with 6Mbps data rate were chosen for full testing.
IEEE 802.11a mode / 5500 ~ 5700MHz:
Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5700MHz) with 6Mbps data rate were chosen for full testing.
IEEE 802.11a mode / 5745 ~ 5825MHz:
Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6Mbps data rate were chosen for full testing.
IEEE 802.11n 20 MHz Channel mode / 5180 ~ 5240MHz:
Channel Low (5180MHz), Channel Mid (5220MHz) and Channel High (5240MHz) with 6.5Mbps data rate were chosen for full testing.
IEEE 802.11n 20 MHz Channel mode / 5260 ~ 5320MHz:
Channel Low (5260MHz), Channel Mid (5280MHz) and Channel High (5320MHz) with 6.5Mbps data rate were chosen for full testing.
IEEE 802.11n 20 MHz Channel mode / 5500 ~ 5700MHz:
Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5700MHz) with 6.5Mbps data rate were chosen for full testing.
IEEE 802.11n 20 MHz Channel mode / 5745 ~ 5825MHz:
Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n 40 MHz Channel mode / 5190 ~ 5230MHz:
Channel Low (5190MHz) and Channel High (5230MHz) with 6.5Mbps data rate were chosen for full testing.
IEEE 802.11n 40 MHz Channel mode / 5270 ~ 5310MHz:
Channel Low (5270MHz) and Channel High (5310MHz) with 6.5Mbps data rate were chosen for full testing.
IEEE 802.11n 40 MHz Channel mode / 5510 ~ 5670MHz:
Channel Low (5510MHz), Channel Mid (5550MHz) and Channel High (5670MHz) with 6.5Mbps data rate were chosen for full testing.
IEEE 802.11n 40 MHz Channel mode / 5755 ~ 5795MHz:
Channel Low (5755MHz) and Channel High (5795MHz) with 6.5Mbps data rate were chosen for full testing.

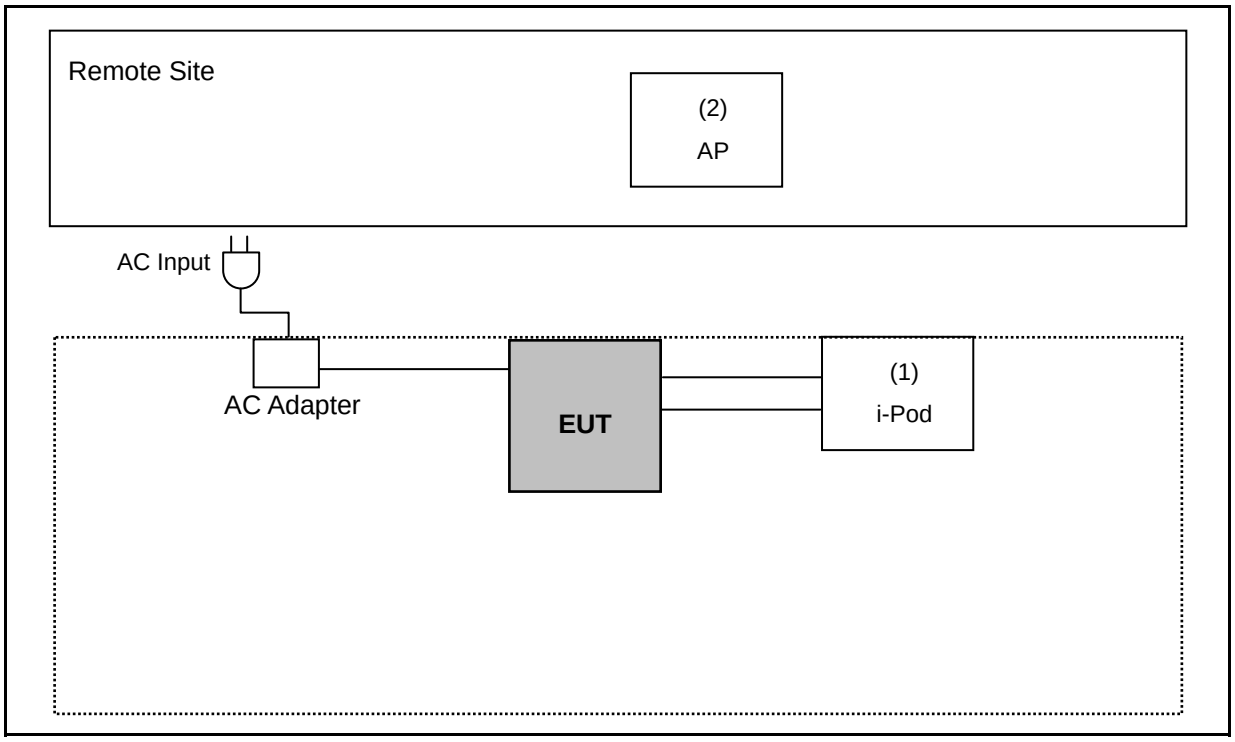
3.2. EUT Exercise Software

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement.
According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn on Wi-Fi function link to Notebook.
4.	EUT run test program.

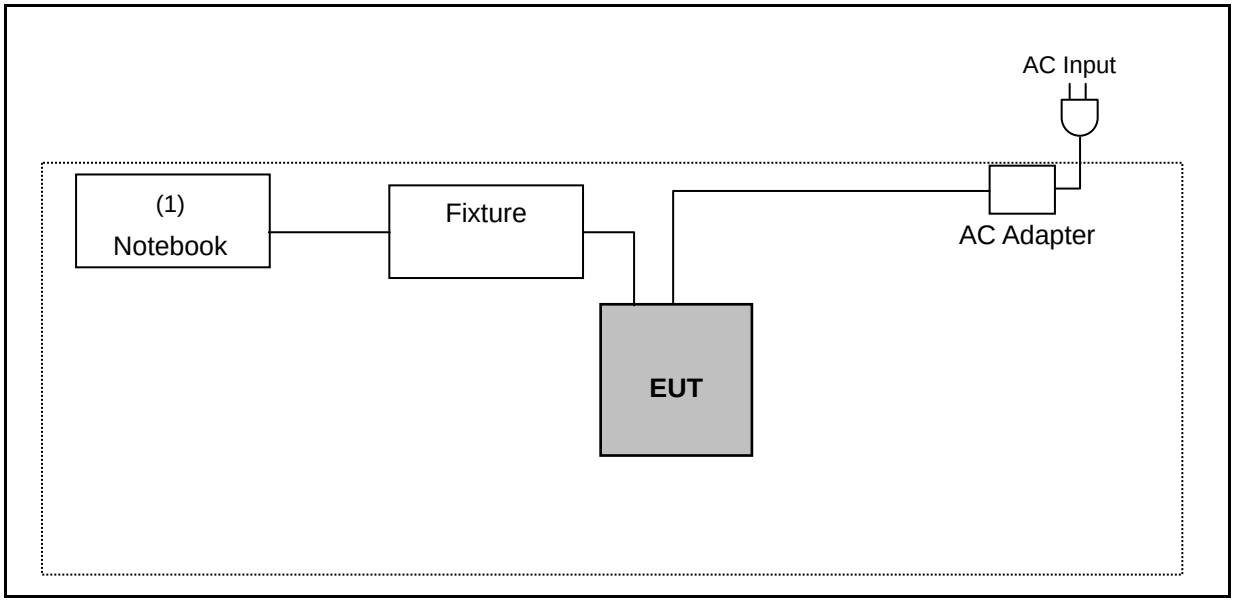
3.3. Configuration of Test System Details

Conducted Emission



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	i-Pod	Apple	A1199	YM734DKEVQ5	Shielded, 1.0m
(2)	AP	TP-Link	TL-WR1042ND	N/A	Non-Shielded, 1.8m

Radiated Emission



Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
(1)	Notebook	DELL	D531	CN-OXM006-48643-87 A-3398	Shielded, 2.0m

3.4. Test Site Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 AC Power Conducted Emission Measurement

4.1. Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

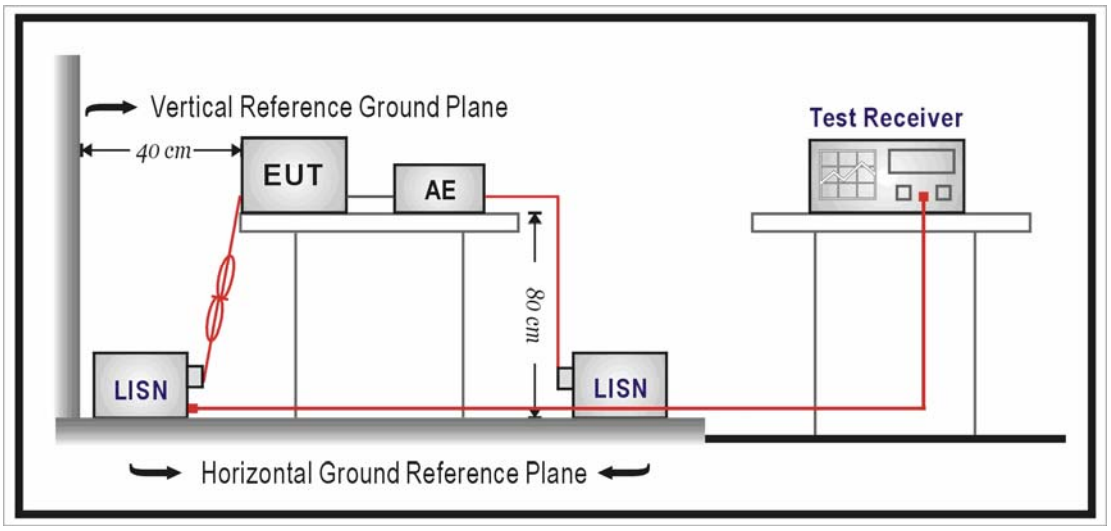
4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/12/2014	(1)
LISN	R&S	ENV216	101040	03/07/2014	(1)
LISN	R&S	ENV216	101041	03/07/2014	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

4.3. Test Setup



4.4. Test Procedure

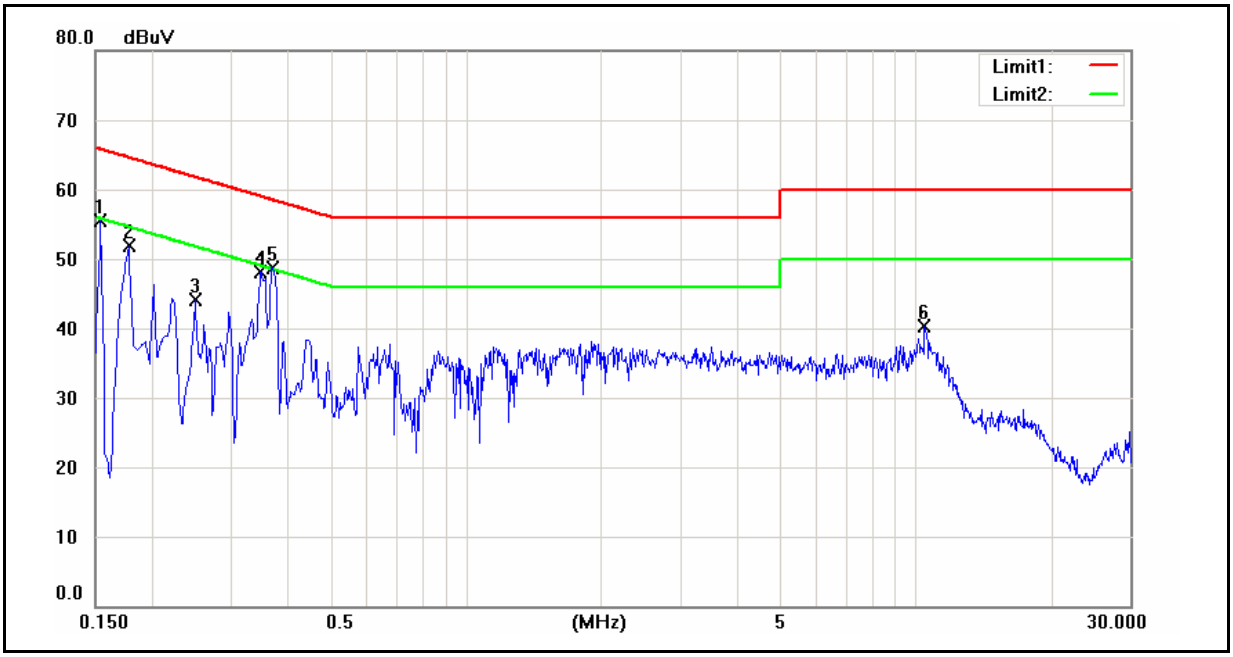
The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

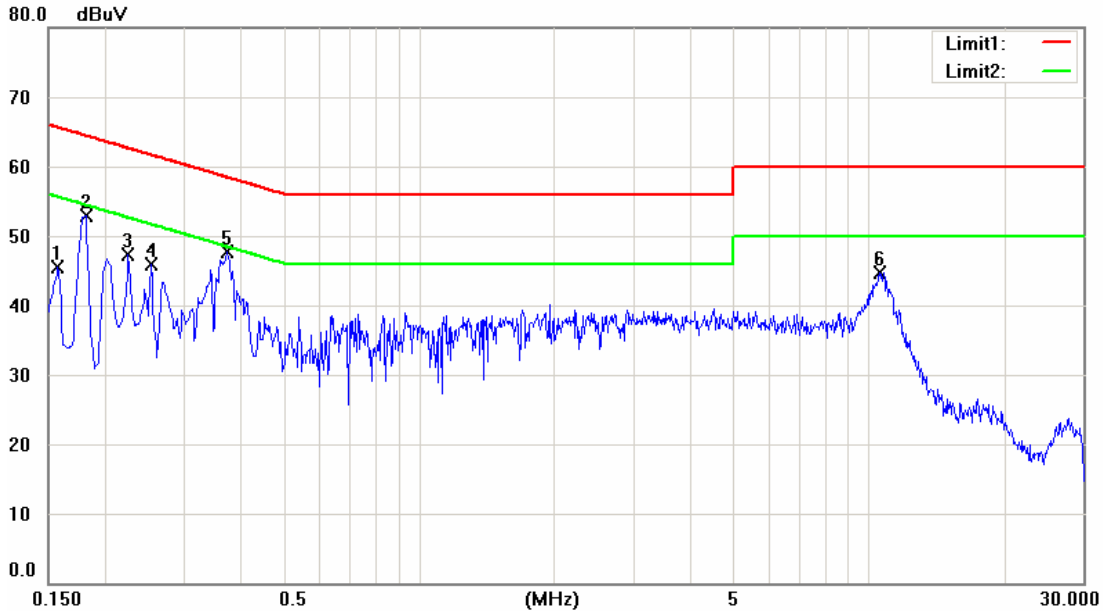
4.5. Test Result

Standard:	FCC Part 15E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	06/17/2014
		Test By:	Eric Ou Yang
Description:			



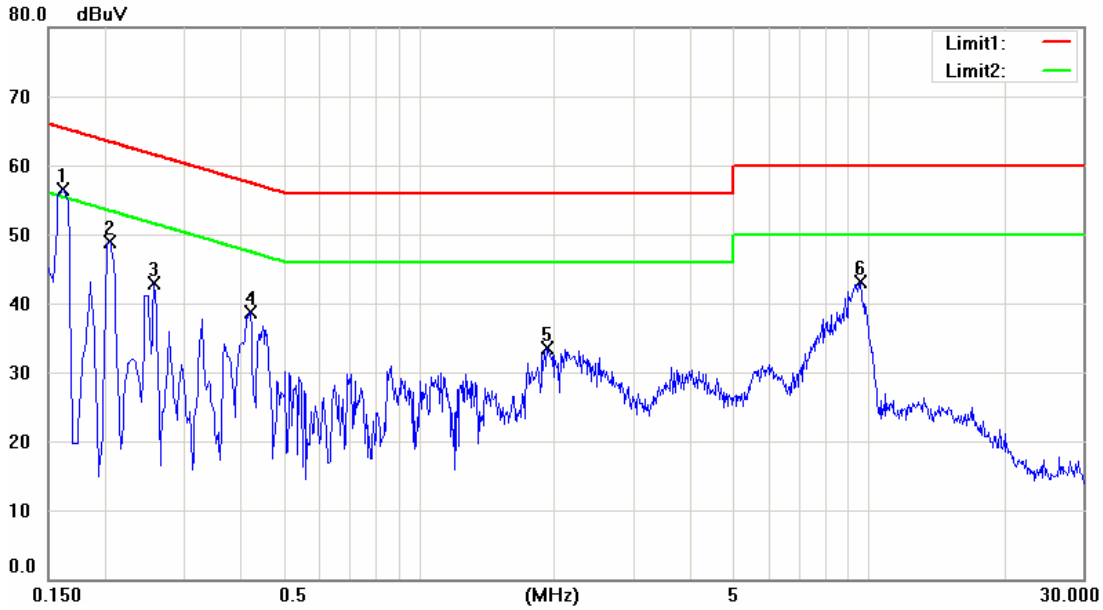
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1540	43.35	25.33	9.58	52.93	34.91	65.78	55.78	-12.85	-20.87	Pass
2	0.1780	41.16	26.88	9.58	50.74	36.46	64.58	54.58	-13.84	-18.12	Pass
3	0.2500	30.08	19.65	9.58	39.66	29.23	61.76	51.76	-22.10	-22.53	Pass
4	0.3500	37.12	22.94	9.58	46.70	32.52	58.96	48.96	-12.26	-16.44	Pass
5	0.3751	37.20	26.49	9.58	46.78	36.07	58.39	48.39	-11.61	-12.32	Pass
6	10.4660	21.27	16.04	10.01	31.28	26.05	60.00	50.00	-28.72	-23.95	Pass

Standard:	FCC Part 15E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	06/17/2014
		Test By:	Eric Ou Yang
Description:			



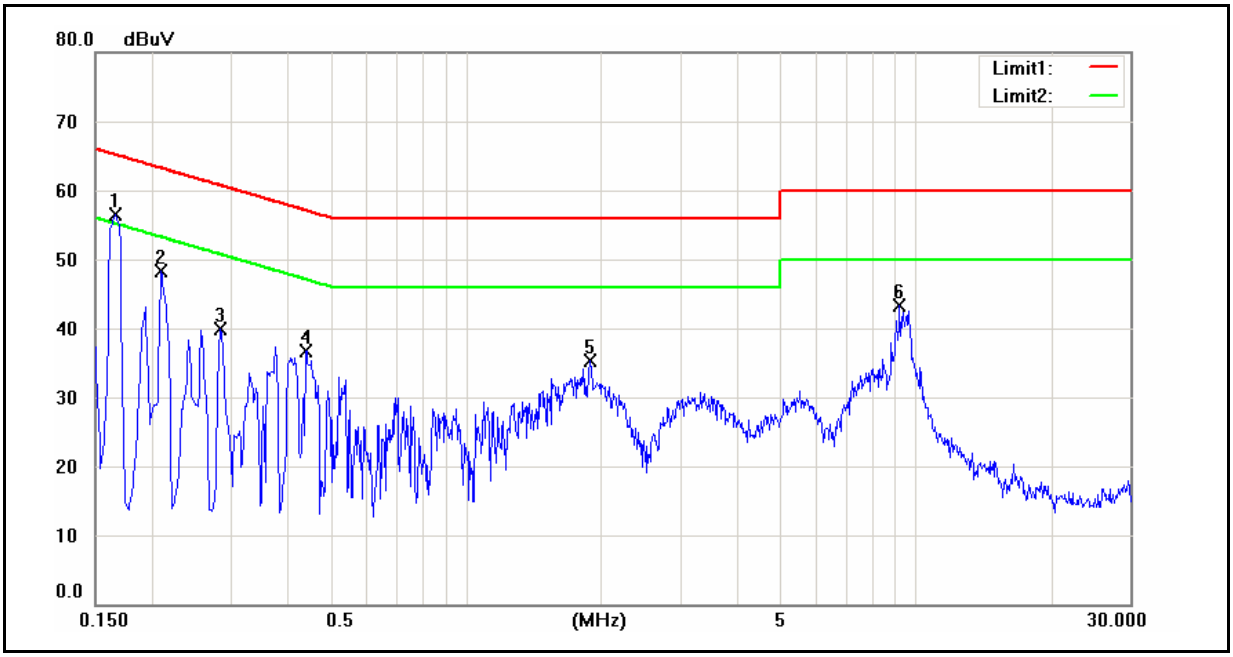
No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1580	37.07	18.27	9.58	46.65	27.85	65.57	55.57	-18.92	-27.72	Pass
2	0.1820	31.15	10.58	9.58	40.73	20.16	64.39	54.39	-23.66	-34.23	Pass
3	0.2260	33.18	19.53	9.58	42.76	29.11	62.60	52.60	-19.84	-23.49	Pass
4	0.2540	25.83	10.87	9.58	35.41	20.45	61.63	51.63	-26.22	-31.18	Pass
5	0.3740	37.44	28.31	9.58	47.02	37.89	58.41	48.41	-11.39	-10.52	Pass
6	10.5820	28.94	22.06	10.02	38.96	32.08	60.00	50.00	-21.04	-17.92	Pass

Standard:	FCC Part 15E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	06/23/2014
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	45.55	27.89	9.58	55.13	37.47	65.36	55.36	-10.23	-17.89	Pass
2	0.2060	37.51	21.30	9.58	47.09	30.88	63.37	53.37	-16.28	-22.49	Pass
3	0.2580	26.42	7.57	9.58	36.00	17.15	61.50	51.50	-25.50	-34.35	Pass
4	0.4220	24.48	12.81	9.58	34.06	22.39	57.41	47.41	-23.35	-25.02	Pass
5	1.9380	20.40	12.03	9.64	30.04	21.67	56.00	46.00	-25.96	-24.33	Pass
6	9.6420	26.73	19.98	10.05	36.78	30.03	60.00	50.00	-23.22	-19.97	Pass

Standard:	FCC Part 15E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	06/23/2014
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	45.23	29.18	9.58	54.81	38.76	65.16	55.16	-10.35	-16.40	Pass
2	0.2100	36.52	20.70	9.58	46.10	30.28	63.21	53.21	-17.11	-22.93	Pass
3	0.2860	28.64	14.83	9.58	38.22	24.41	60.64	50.64	-22.42	-26.23	Pass
4	0.4420	26.18	15.97	9.58	35.76	25.55	57.02	47.02	-21.26	-21.47	Pass
5	1.8940	21.60	14.25	9.65	31.25	23.90	56.00	46.00	-24.75	-22.10	Pass
6	9.2500	25.00	16.49	10.08	35.08	26.57	60.00	50.00	-24.92	-23.43	Pass

5 Radiated Emission Measurement

5.1. Limit

Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (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	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note: 1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

5.2. Test Instruments

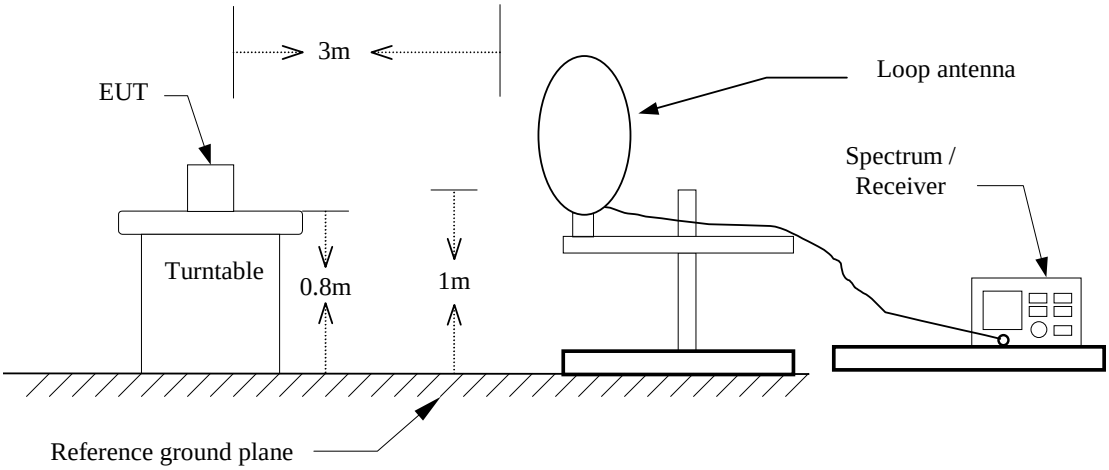
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/10/2014	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/10/2014	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/21/2014	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/21/2014	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	07/18/2014	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/11/2014	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	06/13/2014	(1)
Test Site	ATL	TE01	888001	08/28/2013	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

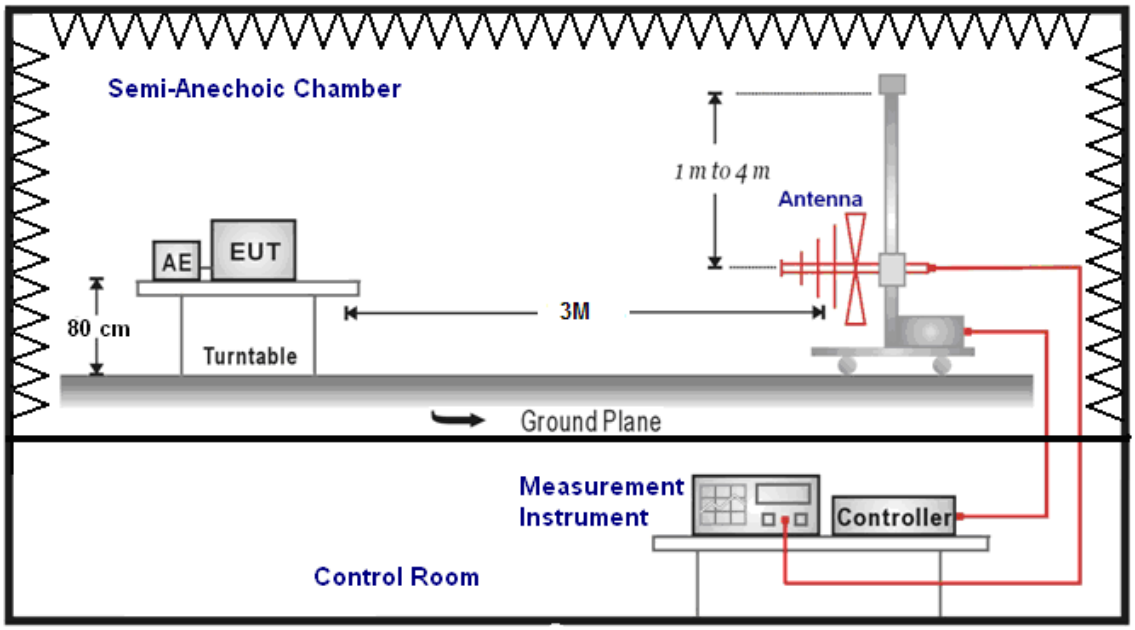
Note: N.C.R. = No Calibration Request.

5.3. Setup

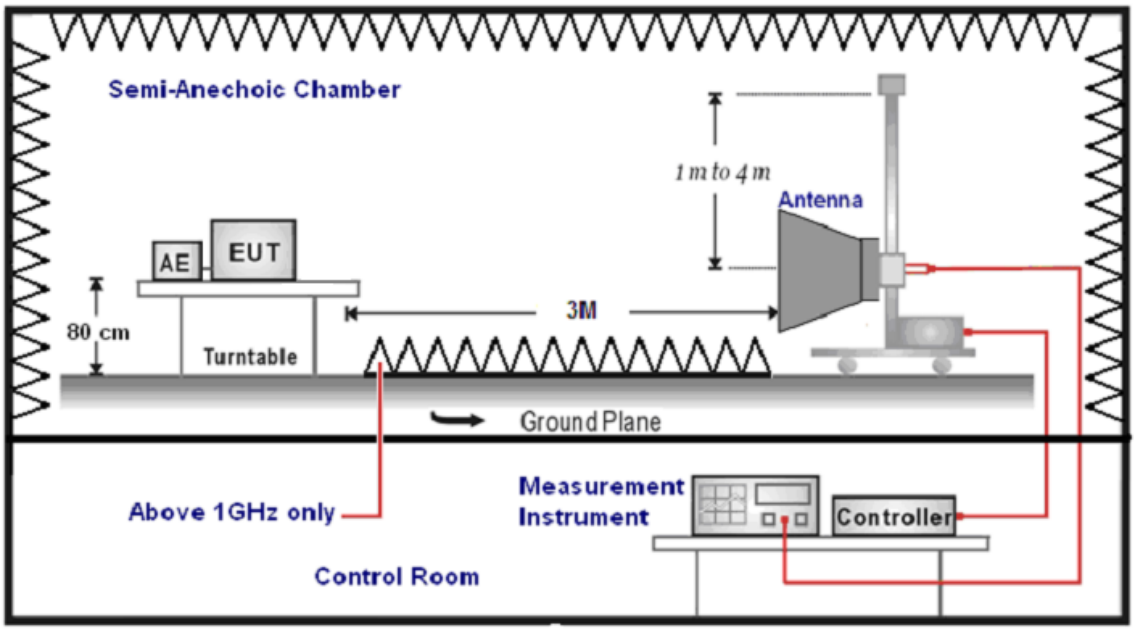
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz


Semi-Anechoic Chamber
1 m to 4 m
Antenna
AE
EUT
80 cm
Turntable
3M
Ground Plane
Above 1GHz only
Measurement
Instrument
Controller
Control Room

5.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 3 MHz for average measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna (mode SB AC VULB) at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antnna (model 3117) Schwarzbeck Mess-Elektronik Broadband Horn Antenna (BBHA 9170) was used in frequencies 1 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

5.5. Test Result

Below 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	07/17/2014
		Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
69.5000	44.11	-14.78	29.33	40.00	-10.67	QP	H
199.5000	44.46	-14.37	30.09	43.50	-13.41	QP	H
287.5000	42.74	-10.60	32.14	46.00	-13.86	QP	H
340.0000	41.53	-9.56	31.97	46.00	-14.03	QP	H
665.0000	39.96	-3.01	36.95	46.00	-9.05	QP	H
820.5000	28.03	0.12	28.15	46.00	-17.85	QP	H
69.0000	47.75	-14.69	33.06	40.00	-6.94	QP	V
308.5000	44.73	-10.10	34.63	46.00	-11.37	QP	V
354.5000	45.54	-9.27	36.27	46.00	-9.73	QP	V
424.0000	40.25	-7.67	32.58	46.00	-13.42	QP	V
519.0000	39.33	-5.96	33.37	46.00	-12.63	QP	V
665.5000	38.51	-3.00	35.51	46.00	-10.49	QP	V

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	37.00	-0.70	36.30	74.00	-37.70	peak	H
4605.000	34.04	4.47	38.51	74.00	-35.49	peak	H
7671.000	32.68	12.30	44.98	74.00	-29.02	peak	H
2813.000	37.35	-0.66	36.69	74.00	-37.31	peak	V
4598.000	34.40	4.45	38.85	74.00	-35.15	peak	V
7650.000	33.77	12.27	46.04	74.00	-27.96	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5220MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.77	-0.66	37.11	74.00	-36.89	peak	H
4598.000	33.84	4.45	38.29	74.00	-35.71	peak	H
7678.000	33.17	12.31	45.48	74.00	-28.52	peak	H
2827.000	36.41	-0.62	35.79	74.00	-38.21	peak	V
4626.000	34.45	4.52	38.97	74.00	-35.03	peak	V
7671.000	33.26	12.30	45.56	74.00	-28.44	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	38.39	-0.62	37.77	74.00	-36.23	peak	H
4570.000	33.56	4.38	37.94	74.00	-36.06	peak	H
7657.000	33.62	12.28	45.90	74.00	-28.10	peak	H
2827.000	36.60	-0.62	35.98	74.00	-38.02	peak	V
4598.000	34.89	4.45	39.34	74.00	-34.66	peak	V
7650.000	32.74	12.27	45.01	74.00	-28.99	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.04	-0.66	35.38	74.00	-38.62	peak	H
4605.000	34.75	4.47	39.22	74.00	-34.78	peak	H
7643.000	32.35	12.26	44.61	74.00	-29.39	peak	H
2855.000	36.23	-0.55	35.68	74.00	-38.32	peak	V
4577.000	34.16	4.39	38.55	74.00	-35.45	peak	V
7678.000	32.51	12.31	44.82	74.00	-29.18	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.99	-0.68	36.31	74.00	-37.69	peak	H
4598.000	35.98	4.45	40.43	74.00	-33.57	peak	H
7671.000	32.69	12.30	44.99	74.00	-29.01	peak	H
2827.000	37.16	-0.62	36.54	74.00	-37.46	peak	V
4626.000	33.31	4.52	37.83	74.00	-36.17	peak	V
7643.000	34.05	12.26	46.31	74.00	-27.69	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	37.53	-0.77	36.76	74.00	-37.24	peak	H
4577.000	34.26	4.39	38.65	74.00	-35.35	peak	H
7671.000	33.01	12.30	45.31	74.00	-28.69	peak	H
2806.000	37.37	-0.68	36.69	74.00	-37.31	peak	V
4591.000	33.94	4.43	38.37	74.00	-35.63	peak	V
7657.000	32.31	12.28	44.59	74.00	-29.41	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.26	-0.66	36.60	74.00	-37.40	peak	H
4605.000	33.68	4.47	38.15	74.00	-35.85	peak	H
7629.000	32.53	12.24	44.77	74.00	-29.23	peak	H
2806.000	36.51	-0.68	35.83	74.00	-38.17	peak	V
4598.000	33.27	4.45	37.72	74.00	-36.28	peak	V
7657.000	31.72	12.28	44.00	74.00	-30.00	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5580MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	36.92	-0.61	36.31	74.00	-37.69	peak	H
4605.000	34.68	4.47	39.15	74.00	-34.85	peak	H
7650.000	33.63	12.27	45.90	74.00	-28.10	peak	H
2827.000	37.52	-0.62	36.90	74.00	-37.10	peak	V
4591.000	33.78	4.43	38.21	74.00	-35.79	peak	V
7650.000	32.50	12.27	44.77	74.00	-29.23	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.07	-0.66	35.41	74.00	-38.59	peak	H
4598.000	35.47	4.45	39.92	74.00	-34.08	peak	H
5725.000	47.03	6.73	53.76	68.20	-14.44	peak	H
7657.000	32.29	12.28	44.57	74.00	-29.43	peak	H
2827.000	36.18	-0.62	35.56	74.00	-38.44	peak	V
4591.000	33.87	4.43	38.30	74.00	-35.70	peak	V
5725.000	53.14	6.73	59.87	68.20	-8.33	peak	V
7643.000	32.25	12.26	44.51	74.00	-29.49	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2771.000	37.18	-0.77	36.41	74.00	-37.59	peak	H
4598.000	33.66	4.45	38.11	74.00	-35.89	peak	H
5715.000	50.33	6.71	57.04	68.20	-11.16	peak	H
5725.000	58.07	6.73	64.80	78.20	-13.40	peak	H
7643.000	31.64	12.26	43.90	74.00	-30.10	peak	H
2827.000	36.33	-0.62	35.71	74.00	-38.29	peak	V
4591.000	34.95	4.43	39.38	74.00	-34.62	peak	V
5715.000	54.18	6.71	60.89	68.20	-7.31	peak	V
5725.000	63.15	6.73	69.88	78.20	-8.32	peak	V
7671.000	32.73	12.30	45.03	74.00	-28.97	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.72	-0.66	37.06	74.00	-36.94	peak	H
4591.000	33.89	4.43	38.32	74.00	-35.68	peak	H
7643.000	32.39	12.26	44.65	74.00	-29.35	peak	H
2813.000	37.28	-0.66	36.62	74.00	-37.38	peak	V
4619.000	34.10	4.51	38.61	74.00	-35.39	peak	V
7650.000	32.89	12.27	45.16	74.00	-28.84	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.89	-0.68	36.21	74.00	-37.79	peak	H
4598.000	34.31	4.45	38.76	74.00	-35.24	peak	H
5850.000	56.48	6.99	63.47	78.20	-14.73	peak	H
5860.000	45.39	7.01	52.40	68.20	-15.80	peak	H
7650.000	32.29	12.27	44.56	74.00	-29.44	peak	H
2799.000	36.36	-0.70	35.66	74.00	-38.34	peak	V
4605.000	34.17	4.47	38.64	74.00	-35.36	peak	V
5850.000	62.02	6.99	69.01	78.20	-9.19	peak	V
5860.000	52.24	7.01	59.25	68.20	-8.95	peak	V
7650.000	32.65	12.27	44.92	74.00	-29.08	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.15	-0.68	35.47	74.00	-38.53	peak	H
4570.000	33.37	4.38	37.75	74.00	-36.25	peak	H
7622.000	32.39	12.22	44.61	74.00	-29.39	peak	H
2827.000	38.65	-0.62	38.03	74.00	-35.97	peak	V
4570.000	34.25	4.38	38.63	74.00	-35.37	peak	V
7657.000	34.18	12.28	46.46	74.00	-27.54	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5220MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	38.17	-0.66	37.51	74.00	-36.49	peak	H
4633.000	33.11	4.54	37.65	74.00	-36.35	peak	H
7643.000	32.24	12.26	44.50	74.00	-29.50	peak	H
2827.000	36.72	-0.62	36.10	74.00	-37.90	peak	V
4598.000	34.07	4.45	38.52	74.00	-35.48	peak	V
7671.000	32.14	12.30	44.44	74.00	-29.56	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	36.10	-0.70	35.40	74.00	-38.60	peak	H
4591.000	34.34	4.43	38.77	74.00	-35.23	peak	H
7678.000	33.14	12.31	45.45	74.00	-28.55	peak	H
2813.000	36.17	-0.66	35.51	74.00	-38.49	peak	V
4605.000	35.41	4.47	39.88	74.00	-34.12	peak	V
7643.000	32.32	12.26	44.58	74.00	-29.42	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.40	-0.66	36.74	74.00	-37.26	peak	H
4605.000	34.48	4.47	38.95	74.00	-35.05	peak	H
7650.000	32.50	12.27	44.77	74.00	-29.23	peak	H
2799.000	36.33	-0.70	35.63	74.00	-38.37	peak	V
4619.000	33.59	4.51	38.10	74.00	-35.90	peak	V
7650.000	32.37	12.27	44.64	74.00	-29.36	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.51	-0.66	36.85	74.00	-37.15	peak	H
4626.000	33.49	4.52	38.01	74.00	-35.99	peak	H
7657.000	32.85	12.28	45.13	74.00	-28.87	peak	H
2799.000	38.50	-0.70	37.80	74.00	-36.20	peak	V
4647.000	35.10	4.57	39.67	74.00	-34.33	peak	V
7601.000	33.35	12.20	45.55	74.00	-28.45	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.09	-0.62	36.47	74.00	-37.53	peak	H
4598.000	33.89	4.45	38.34	74.00	-35.66	peak	H
7671.000	32.35	12.30	44.65	74.00	-29.35	peak	H
2834.000	38.49	-0.61	37.88	74.00	-36.12	peak	V
4577.000	35.39	4.39	39.78	74.00	-34.22	peak	V
7671.000	32.71	12.30	45.01	74.00	-28.99	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.29	-0.68	35.61	74.00	-38.39	peak	H
4598.000	33.54	4.45	37.99	74.00	-36.01	peak	H
7671.000	33.33	12.30	45.63	74.00	-28.37	peak	H
2841.000	36.74	-0.59	36.15	74.00	-37.85	peak	V
4591.000	34.08	4.43	38.51	74.00	-35.49	peak	V
7629.000	32.06	12.24	44.30	74.00	-29.70	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5580MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.16	-0.66	36.50	74.00	-37.50	peak	H
4598.000	33.72	4.45	38.17	74.00	-35.83	peak	H
7643.000	32.39	12.26	44.65	74.00	-29.35	peak	H
2806.000	35.71	-0.68	35.03	74.00	-38.97	peak	V
4619.000	34.70	4.51	39.21	74.00	-34.79	peak	V
7643.000	31.52	12.26	43.78	74.00	-30.22	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.04	-0.66	36.38	74.00	-37.62	peak	H
4598.000	33.53	4.45	37.98	74.00	-36.02	peak	H
7650.000	32.08	12.27	44.35	74.00	-29.65	peak	H
2834.000	36.65	-0.61	36.04	74.00	-37.96	peak	V
4605.000	34.92	4.47	39.39	74.00	-34.61	peak	V
7650.000	32.51	12.27	44.78	74.00	-29.22	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.91	-0.66	36.25	74.00	-37.75	peak	H
4605.000	33.46	4.47	37.93	74.00	-36.07	peak	H
7657.000	32.77	12.28	45.05	74.00	-28.95	peak	H
2827.000	37.32	-0.62	36.70	74.00	-37.30	peak	V
4598.000	33.93	4.45	38.38	74.00	-35.62	peak	V
7622.000	32.20	12.22	44.42	74.00	-29.58	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.93	-0.66	36.27	74.00	-37.73	peak	H
4626.000	33.83	4.52	38.35	74.00	-35.65	peak	H
7629.000	32.82	12.24	45.06	74.00	-28.94	peak	H
2785.000	36.25	-0.73	35.52	74.00	-38.48	peak	V
4577.000	33.32	4.39	37.71	74.00	-36.29	peak	V
7657.000	32.94	12.28	45.22	74.00	-28.78	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.44	-0.62	36.82	74.00	-37.18	peak	H
4591.000	33.95	4.43	38.38	74.00	-35.62	peak	H
7629.000	31.96	12.24	44.20	74.00	-29.80	peak	H
2799.000	36.03	-0.70	35.33	74.00	-38.67	peak	V
4598.000	34.57	4.45	39.02	74.00	-34.98	peak	V
7643.000	33.47	12.26	45.73	74.00	-28.27	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5190MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	36.27	-0.70	35.57	74.00	-38.43	peak	H
4619.000	34.32	4.51	38.83	74.00	-35.17	peak	H
7678.000	32.51	12.31	44.82	74.00	-29.18	peak	H
2813.000	36.82	-0.66	36.16	74.00	-37.84	peak	V
4619.000	34.67	4.51	39.18	74.00	-34.82	peak	V
7643.000	32.27	12.26	44.53	74.00	-29.47	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5230MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	36.87	-0.61	36.26	74.00	-37.74	peak	H
4598.000	34.88	4.45	39.33	74.00	-34.67	peak	H
7657.000	32.72	12.28	45.00	74.00	-29.00	peak	H
2827.000	37.73	-0.62	37.11	74.00	-36.89	peak	V
4591.000	34.24	4.43	38.67	74.00	-35.33	peak	V
7671.000	33.61	12.30	45.91	74.00	-28.09	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5270MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.86	-0.66	36.20	74.00	-37.80	peak	H
4619.000	34.48	4.51	38.99	74.00	-35.01	peak	H
7671.000	32.46	12.30	44.76	74.00	-29.24	peak	H
2799.000	36.94	-0.70	36.24	74.00	-37.76	peak	V
4598.000	34.39	4.45	38.84	74.00	-35.16	peak	V
7671.000	32.27	12.30	44.57	74.00	-29.43	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5310MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	35.75	-0.68	35.07	74.00	-38.93	peak	H
4633.000	33.50	4.54	38.04	74.00	-35.96	peak	H
7643.000	32.52	12.26	44.78	74.00	-29.22	peak	H
2806.000	36.67	-0.68	35.99	74.00	-38.01	peak	V
4619.000	33.47	4.51	37.98	74.00	-36.02	peak	V
7622.000	32.69	12.22	44.91	74.00	-29.09	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5510MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.86	-0.66	36.20	74.00	-37.80	peak	H
4633.000	33.43	4.54	37.97	74.00	-36.03	peak	H
7601.000	31.82	12.20	44.02	74.00	-29.98	peak	H
2841.000	38.43	-0.59	37.84	74.00	-36.16	peak	V
4591.000	33.46	4.43	37.89	74.00	-36.11	peak	V
7671.000	33.46	12.30	45.76	74.00	-28.24	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5550MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	37.11	-0.70	36.41	74.00	-37.59	peak	H
4591.000	34.33	4.43	38.76	74.00	-35.24	peak	H
7650.000	33.68	12.27	45.95	74.00	-28.05	peak	H
2799.000	37.87	-0.70	37.17	74.00	-36.83	peak	V
4633.000	33.65	4.54	38.19	74.00	-35.81	peak	V
7650.000	32.78	12.27	45.05	74.00	-28.95	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5670MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.49	-0.66	36.83	74.00	-37.17	peak	H
4619.000	34.10	4.51	38.61	74.00	-35.39	peak	H
7615.000	32.47	12.23	44.70	74.00	-29.30	peak	H
2813.000	37.56	-0.66	36.90	74.00	-37.10	peak	V
4619.000	33.64	4.51	38.15	74.00	-35.85	peak	V
7657.000	33.47	12.28	45.75	74.00	-28.25	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5755MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.33	-0.62	36.71	74.00	-37.29	peak	H
4591.000	34.51	4.43	38.94	74.00	-35.06	peak	H
7629.000	32.45	12.24	44.69	74.00	-29.31	peak	H
2827.000	38.73	-0.62	38.11	74.00	-35.89	peak	V
4598.000	34.05	4.45	38.50	74.00	-35.50	peak	V
7657.000	32.99	12.28	45.27	74.00	-28.73	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5795MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	36.42	-0.62	35.80	74.00	-38.20	peak	H
4598.000	34.16	4.45	38.61	74.00	-35.39	peak	H
7650.000	33.24	12.27	45.51	74.00	-28.49	peak	H
2813.000	37.99	-0.66	37.33	74.00	-36.67	peak	V
4598.000	34.87	4.45	39.32	74.00	-34.68	peak	V
7650.000	32.88	12.27	45.15	74.00	-28.85	peak	V

Standard:	RSS-Gen	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 5	Date:	07/18/2014
Modulation:	IEEE 802.11a	Test By:	Eric Ou Yang
Frequency:	5180 MHz		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Peak Limit (dBuV/m)	AVG. Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	36.01	-0.70	35.31	74.00	54.00	-38.69	peak	H
4591.000	34.93	4.43	39.36	74.00	54.00	-34.64	peak	H
7629.000	32.23	12.24	44.47	74.00	54.00	-29.53	peak	H
2834.000	37.03	-0.61	36.42	74.00	54.00	-37.58	peak	V
4619.000	33.82	4.51	38.33	74.00	54.00	-35.67	peak	V
7678.000	33.29	12.31	45.60	74.00	54.00	-28.40	peak	V

Standard:	RSS-Gen	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 5	Date:	07/18/2014
Modulation:	IEEE 802.11a	Test By:	Eric Ou Yang
Frequency:	5745 MHz		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Peak Limit (dBuV/m)	AVG. Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2785.000	37.88	-0.73	37.15	74.00	54.00	-36.85	peak	H
4633.000	33.17	4.54	37.71	74.00	54.00	-36.29	peak	H
7643.000	32.52	12.26	44.78	74.00	54.00	-29.22	peak	H
2834.000	38.48	-0.61	37.87	74.00	54.00	-36.13	peak	V
4626.000	34.06	4.52	38.58	74.00	54.00	-35.42	peak	V
7629.000	32.72	12.24	44.96	74.00	54.00	-29.04	peak	V

Below 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	07/15/2014
		Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
144.0000	48.22	-12.01	36.21	43.50	-7.29	QP	H
192.0000	52.56	-14.17	38.39	43.50	-5.11	QP	H
336.0000	49.70	-9.63	40.07	46.00	-5.93	QP	H
528.0000	47.13	-5.82	41.31	46.00	-4.69	QP	H
672.0000	40.56	-2.90	37.66	46.00	-8.34	QP	H
860.0000	38.77	0.78	39.55	46.00	-6.45	QP	H
144.0000	48.53	-12.01	36.52	43.50	-6.98	QP	V
240.0000	50.92	-12.35	38.57	46.00	-7.43	QP	V
384.0000	47.98	-8.56	39.42	46.00	-6.58	QP	V
480.0000	45.40	-6.62	38.78	46.00	-7.22	QP	V
576.0000	45.94	-4.73	41.21	46.00	-4.79	QP	V
864.0000	39.12	0.85	39.97	46.00	-6.03	QP	V

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2841.000	37.37	-0.59	36.78	74.00	-37.22	peak	H
4619.000	34.64	4.51	39.15	74.00	-34.85	peak	H
7650.000	34.21	12.27	46.48	74.00	-27.52	peak	H
2785.000	36.79	-0.73	36.06	74.00	-37.94	peak	V
4591.000	34.94	4.43	39.37	74.00	-34.63	peak	V
7657.000	34.28	12.28	46.56	74.00	-27.44	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5220MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	36.92	-0.62	36.30	74.00	-37.70	peak	H
4605.000	34.78	4.47	39.25	74.00	-34.75	peak	H
7643.000	32.36	12.26	44.62	74.00	-29.38	peak	H
2806.000	37.01	-0.68	36.33	74.00	-37.67	peak	V
4633.000	33.60	4.54	38.14	74.00	-35.86	peak	V
7650.000	33.83	12.27	46.10	74.00	-27.90	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	35.98	-0.70	35.28	74.00	-38.72	peak	H
4605.000	33.97	4.47	38.44	74.00	-35.56	peak	H
7671.000	33.36	12.30	45.66	74.00	-28.34	peak	H
2834.000	37.29	-0.61	36.68	74.00	-37.32	peak	V
4570.000	34.09	4.38	38.47	74.00	-35.53	peak	V
7671.000	33.73	12.30	46.03	74.00	-27.97	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.43	-0.61	36.82	74.00	-37.18	peak	H
4570.000	33.86	4.38	38.24	74.00	-35.76	peak	H
7650.000	32.33	12.27	44.60	74.00	-29.40	peak	H
2813.000	36.82	-0.66	36.16	74.00	-37.84	peak	V
4598.000	33.26	4.45	37.71	74.00	-36.29	peak	V
7678.000	33.15	12.31	45.46	74.00	-28.54	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.75	-0.66	36.09	74.00	-37.91	peak	H
4598.000	34.32	4.45	38.77	74.00	-35.23	peak	H
7629.000	33.45	12.24	45.69	74.00	-28.31	peak	H
2806.000	36.41	-0.68	35.73	74.00	-38.27	peak	V
4577.000	34.70	4.39	39.09	74.00	-34.91	peak	V
7650.000	32.56	12.27	44.83	74.00	-29.17	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	36.68	-0.70	35.98	74.00	-38.02	peak	H
4626.000	35.04	4.52	39.56	74.00	-34.44	peak	H
7643.000	33.39	12.26	45.65	74.00	-28.35	peak	H
2806.000	36.92	-0.68	36.24	74.00	-37.76	peak	V
4598.000	34.62	4.45	39.07	74.00	-34.93	peak	V
7622.000	34.96	12.22	47.18	74.00	-26.82	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.60	-0.66	35.94	74.00	-38.06	peak	H
4598.000	34.46	4.45	38.91	74.00	-35.09	peak	H
7622.000	32.98	12.22	45.20	74.00	-28.80	peak	H
2827.000	37.43	-0.62	36.81	74.00	-37.19	peak	V
4619.000	34.14	4.51	38.65	74.00	-35.35	peak	V
7643.000	33.52	12.26	45.78	74.00	-28.22	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5580MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.90	-0.62	37.28	74.00	-36.72	peak	H
4591.000	35.13	4.43	39.56	74.00	-34.44	peak	H
7678.000	33.06	12.31	45.37	74.00	-28.63	peak	H
2827.000	36.71	-0.62	36.09	74.00	-37.91	peak	V
4605.000	34.10	4.47	38.57	74.00	-35.43	peak	V
7699.000	32.62	12.34	44.96	74.00	-29.04	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	37.80	-0.68	37.12	74.00	-36.88	peak	H
4598.000	33.56	4.45	38.01	74.00	-35.99	peak	H
5725.000	53.69	6.73	60.42	68.20	-7.78	peak	H
7650.000	32.70	12.27	44.97	74.00	-29.03	peak	H
2806.000	36.71	-0.68	36.03	74.00	-37.97	peak	V
4591.000	34.25	4.43	38.68	74.00	-35.32	peak	V
5725.000	59.27	6.73	66.00	68.20	-2.20	peak	V
7643.000	33.27	12.26	45.53	74.00	-28.47	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	38.49	-0.66	37.83	74.00	-36.17	peak	H
4605.000	35.08	4.47	39.55	74.00	-34.45	peak	H
5715.000	54.22	6.71	60.93	68.20	-7.27	peak	H
5725.000	63.44	6.73	70.17	78.20	-8.03	peak	H
7685.000	32.70	12.32	45.02	74.00	-28.98	peak	H
2806.000	36.31	-0.68	35.63	74.00	-38.37	peak	V
4591.000	34.83	4.43	39.26	74.00	-34.74	peak	V
5715.000	60.01	6.71	66.72	68.20	-1.48	peak	V
5725.000	69.32	6.73	76.05	78.20	-2.15	peak	V
7671.000	32.66	12.30	44.96	74.00	-29.04	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	36.92	-0.70	36.22	74.00	-37.78	peak	H
4577.000	33.48	4.39	37.87	74.00	-36.13	peak	H
7643.000	32.37	12.26	44.63	74.00	-29.37	peak	H
2813.000	37.82	-0.66	37.16	74.00	-36.84	peak	V
4577.000	34.43	4.39	38.82	74.00	-35.18	peak	V
7657.000	31.72	12.28	44.00	74.00	-30.00	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.74	-0.61	37.13	74.00	-36.87	peak	H
4605.000	34.82	4.47	39.29	74.00	-34.71	peak	H
5850.000	62.27	6.99	69.26	78.20	-8.94	peak	H
5860.000	51.12	7.01	58.13	68.20	-10.07	peak	H
7643.000	32.50	12.26	44.76	74.00	-29.24	peak	H
2806.000	36.95	-0.68	36.27	74.00	-37.73	peak	V
4563.000	33.67	4.36	38.03	74.00	-35.97	peak	V
5850.000	68.55	6.99	75.54	78.20	-2.66	peak	V
5860.000	58.39	7.01	65.40	68.20	-2.80	peak	V
7685.000	32.58	12.32	44.90	74.00	-29.10	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.23	-0.68	35.55	74.00	-38.45	peak	H
4605.000	34.64	4.47	39.11	74.00	-34.89	peak	H
7671.000	33.32	12.30	45.62	74.00	-28.38	peak	H
2813.000	37.60	-0.66	36.94	74.00	-37.06	peak	V
4591.000	34.56	4.43	38.99	74.00	-35.01	peak	V
7657.000	32.95	12.28	45.23	74.00	-28.77	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5220MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	37.87	-0.68	37.19	74.00	-36.81	peak	H
4591.000	34.57	4.43	39.00	74.00	-35.00	peak	H
7657.000	33.62	12.28	45.90	74.00	-28.10	peak	H
2785.000	36.59	-0.73	35.86	74.00	-38.14	peak	V
4563.000	33.29	4.36	37.65	74.00	-36.35	peak	V
7657.000	34.02	12.28	46.30	74.00	-27.70	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	38.04	-0.66	37.38	74.00	-36.62	peak	H
4577.000	35.60	4.39	39.99	74.00	-34.01	peak	H
7671.000	32.91	12.30	45.21	74.00	-28.79	peak	H
2806.000	36.89	-0.68	36.21	74.00	-37.79	peak	V
4605.000	34.52	4.47	38.99	74.00	-35.01	peak	V
7643.000	33.45	12.26	45.71	74.00	-28.29	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.31	-0.66	36.65	74.00	-37.35	peak	H
4598.000	34.52	4.45	38.97	74.00	-35.03	peak	H
7671.000	31.68	12.30	43.98	74.00	-30.02	peak	H
2827.000	36.69	-0.62	36.07	74.00	-37.93	peak	V
4654.000	34.61	4.60	39.21	74.00	-34.79	peak	V
7629.000	31.91	12.24	44.15	74.00	-29.85	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.13	-0.68	35.45	74.00	-38.55	peak	H
4577.000	34.24	4.39	38.63	74.00	-35.37	peak	H
7657.000	33.27	12.28	45.55	74.00	-28.45	peak	H
2813.000	36.68	-0.66	36.02	74.00	-37.98	peak	V
4605.000	34.97	4.47	39.44	74.00	-34.56	peak	V
7629.000	33.78	12.24	46.02	74.00	-27.98	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.08	-0.66	36.42	74.00	-37.58	peak	H
4577.000	34.37	4.39	38.76	74.00	-35.24	peak	H
7678.000	33.97	12.31	46.28	74.00	-27.72	peak	H
2806.000	36.46	-0.68	35.78	74.00	-38.22	peak	V
4591.000	33.60	4.43	38.03	74.00	-35.97	peak	V
7657.000	33.48	12.28	45.76	74.00	-28.24	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	37.90	-0.68	37.22	74.00	-36.78	peak	H
4598.000	33.97	4.45	38.42	74.00	-35.58	peak	H
7657.000	32.51	12.28	44.79	74.00	-29.21	peak	H
2827.000	37.44	-0.62	36.82	74.00	-37.18	peak	V
4605.000	33.83	4.47	38.30	74.00	-35.70	peak	V
7657.000	33.38	12.28	45.66	74.00	-28.34	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5580MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	38.96	-0.61	38.35	74.00	-35.65	peak	H
4598.000	33.62	4.45	38.07	74.00	-35.93	peak	H
7650.000	32.75	12.27	45.02	74.00	-28.98	peak	H
2827.000	38.65	-0.62	38.03	74.00	-35.97	peak	V
4577.000	33.61	4.39	38.00	74.00	-36.00	peak	V
7678.000	33.83	12.31	46.14	74.00	-27.86	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.14	-0.68	35.46	74.00	-38.54	peak	H
4598.000	33.87	4.45	38.32	74.00	-35.68	peak	H
7650.000	31.34	12.27	43.61	74.00	-30.39	peak	H
2827.000	36.93	-0.62	36.31	74.00	-37.69	peak	V
4570.000	34.53	4.38	38.91	74.00	-35.09	peak	V
7622.000	32.21	12.22	44.43	74.00	-29.57	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.58	-0.61	36.97	74.00	-37.03	peak	H
4598.000	34.06	4.45	38.51	74.00	-35.49	peak	H
7650.000	32.85	12.27	45.12	74.00	-28.88	peak	H
2813.000	37.37	-0.66	36.71	74.00	-37.29	peak	V
4591.000	33.80	4.43	38.23	74.00	-35.77	peak	V
7678.000	33.52	12.31	45.83	74.00	-28.17	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	36.41	-0.66	35.75	74.00	-38.25	peak	H
4598.000	34.04	4.45	38.49	74.00	-35.51	peak	H
7671.000	31.53	12.30	43.83	74.00	-30.17	peak	H
2806.000	36.61	-0.68	35.93	74.00	-38.07	peak	V
4563.000	34.76	4.36	39.12	74.00	-34.88	peak	V
7657.000	31.77	12.28	44.05	74.00	-29.95	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	37.58	-0.68	36.90	74.00	-37.10	peak	H
4591.000	35.67	4.43	40.10	74.00	-33.90	peak	H
7678.000	34.09	12.31	46.40	74.00	-27.60	peak	H
2806.000	36.45	-0.68	35.77	74.00	-38.23	peak	V
4591.000	33.88	4.43	38.31	74.00	-35.69	peak	V
7650.000	32.55	12.27	44.82	74.00	-29.18	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5190MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.22	-0.68	35.54	74.00	-38.46	peak	H
4591.000	34.61	4.43	39.04	74.00	-34.96	peak	H
7657.000	33.43	12.28	45.71	74.00	-28.29	peak	H
2806.000	37.48	-0.68	36.80	74.00	-37.20	peak	V
4591.000	34.82	4.43	39.25	74.00	-34.75	peak	V
7657.000	32.77	12.28	45.05	74.00	-28.95	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5230MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2799.000	36.18	-0.70	35.48	74.00	-38.52	peak	H
4626.000	35.30	4.52	39.82	74.00	-34.18	peak	H
7629.000	33.68	12.24	45.92	74.00	-28.08	peak	H
2806.000	38.40	-0.68	37.72	74.00	-36.28	peak	V
4577.000	34.27	4.39	38.66	74.00	-35.34	peak	V
7657.000	33.20	12.28	45.48	74.00	-28.52	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5270MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2785.000	36.67	-0.73	35.94	74.00	-38.06	peak	H
4577.000	34.20	4.39	38.59	74.00	-35.41	peak	H
7629.000	32.64	12.24	44.88	74.00	-29.12	peak	H
2827.000	37.46	-0.62	36.84	74.00	-37.16	peak	V
4598.000	34.36	4.45	38.81	74.00	-35.19	peak	V
7671.000	32.16	12.30	44.46	74.00	-29.54	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5310MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.61	-0.62	36.99	74.00	-37.01	peak	H
4598.000	34.43	4.45	38.88	74.00	-35.12	peak	H
7678.000	32.76	12.31	45.07	74.00	-28.93	peak	H
2827.000	37.61	-0.62	36.99	74.00	-37.01	peak	V
4563.000	34.09	4.36	38.45	74.00	-35.55	peak	V
7671.000	32.79	12.30	45.09	74.00	-28.91	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5510MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	36.64	-0.62	36.02	74.00	-37.98	peak	H
4591.000	34.17	4.43	38.60	74.00	-35.40	peak	H
7615.000	32.90	12.23	45.13	74.00	-28.87	peak	H
2806.000	37.25	-0.68	36.57	74.00	-37.43	peak	V
4598.000	33.55	4.45	38.00	74.00	-36.00	peak	V
7643.000	33.03	12.26	45.29	74.00	-28.71	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5550MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2806.000	36.19	-0.68	35.51	74.00	-38.49	peak	H
4577.000	34.44	4.39	38.83	74.00	-35.17	peak	H
7629.000	32.78	12.24	45.02	74.00	-28.98	peak	H
2813.000	37.34	-0.66	36.68	74.00	-37.32	peak	V
4577.000	33.83	4.39	38.22	74.00	-35.78	peak	V
7657.000	32.29	12.28	44.57	74.00	-29.43	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5670MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.01	-0.61	36.40	74.00	-37.60	peak	H
4598.000	35.43	4.45	39.88	74.00	-34.12	peak	H
7678.000	33.29	12.31	45.60	74.00	-28.40	peak	H
2806.000	37.83	-0.68	37.15	74.00	-36.85	peak	V
4598.000	34.30	4.45	38.75	74.00	-35.25	peak	V
7671.000	33.40	12.30	45.70	74.00	-28.30	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5755MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2834.000	37.93	-0.61	37.32	74.00	-36.68	peak	H
4577.000	34.34	4.39	38.73	74.00	-35.27	peak	H
7699.000	33.60	12.34	45.94	74.00	-28.06	peak	H
2806.000	37.82	-0.68	37.14	74.00	-36.86	peak	V
4577.000	33.82	4.39	38.21	74.00	-35.79	peak	V
7671.000	33.14	12.30	45.44	74.00	-28.56	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5795MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.81	-0.66	37.15	74.00	-36.85	peak	H
4577.000	35.29	4.39	39.68	74.00	-34.32	peak	H
7650.000	33.27	12.27	45.54	74.00	-28.46	peak	H
2806.000	36.32	-0.68	35.64	74.00	-38.36	peak	V
4591.000	34.25	4.43	38.68	74.00	-35.32	peak	V
7671.000	32.84	12.30	45.14	74.00	-28.86	peak	V

Standard:	RSS-Gen	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 5	Date:	07/16/2014
Modulation:	IEEE 802.11a	Test By:	Eric Ou Yang
Frequency:	5180 MHz		

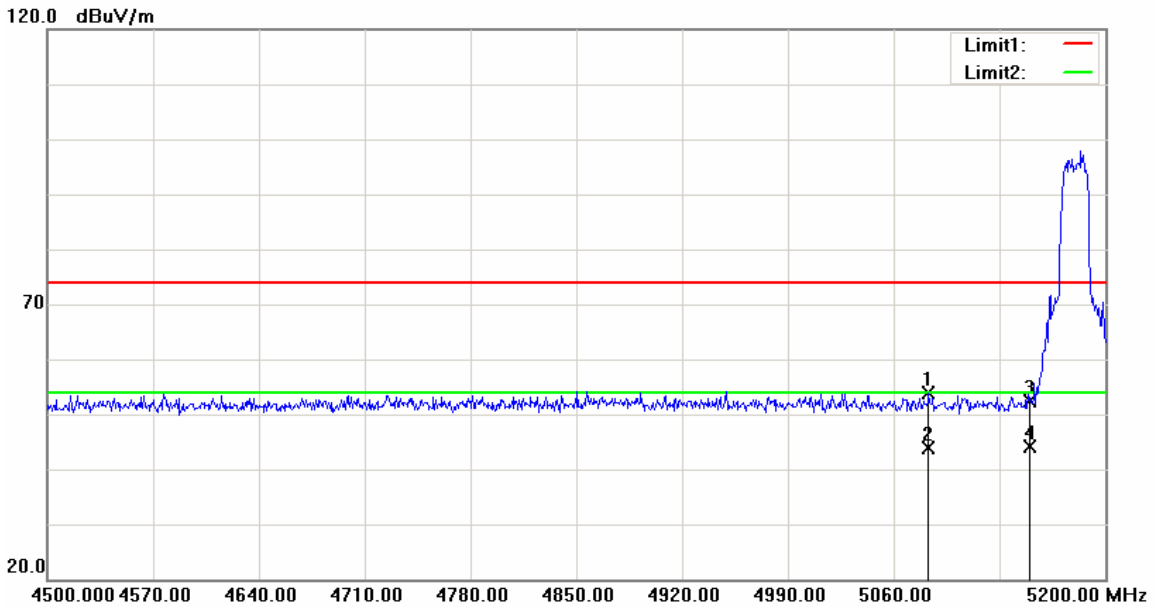
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Peak Limit (dBuV/m)	AVG. Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2813.000	37.29	-0.66	36.63	74.00	54.00	-37.37	peak	H
4598.000	34.38	4.45	38.83	74.00	54.00	-35.17	peak	H
7629.000	31.59	12.24	43.83	74.00	54.00	-30.17	peak	H
2827.000	36.68	-0.62	36.06	74.00	54.00	-37.94	peak	V
4563.000	33.69	4.36	38.05	74.00	54.00	-35.95	peak	V
7650.000	32.02	12.27	44.29	74.00	54.00	-29.71	peak	V

Standard:	RSS-Gen	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 5	Date:	07/16/2014
Modulation:	IEEE 802.11a	Test By:	Eric Ou Yang
Frequency:	5745 MHz		

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Peak Limit (dBuV/m)	AVG. Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
2827.000	37.05	-0.62	36.43	74.00	54.00	-37.57	peak	H
4591.000	35.03	4.43	39.46	74.00	54.00	-34.54	peak	H
7671.000	33.56	12.30	45.86	74.00	54.00	-28.14	peak	H
2806.000	37.31	-0.68	36.63	74.00	54.00	-37.37	peak	V
4570.000	33.56	4.38	37.94	74.00	54.00	-36.06	peak	V
7657.000	33.94	12.28	46.22	74.00	54.00	-27.78	peak	V

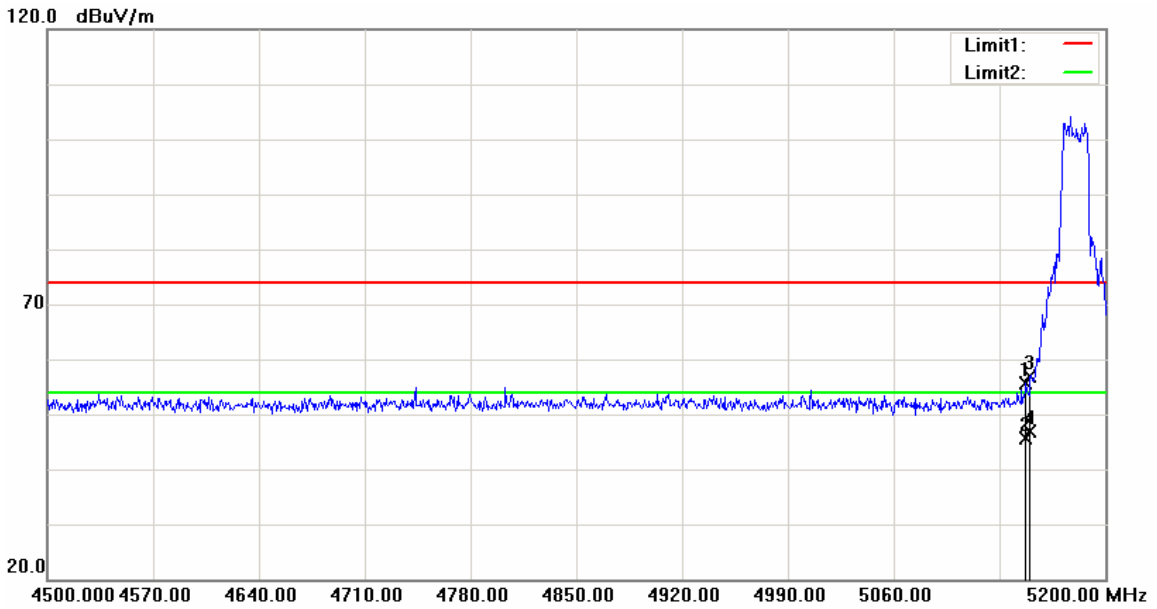
Band Edge

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



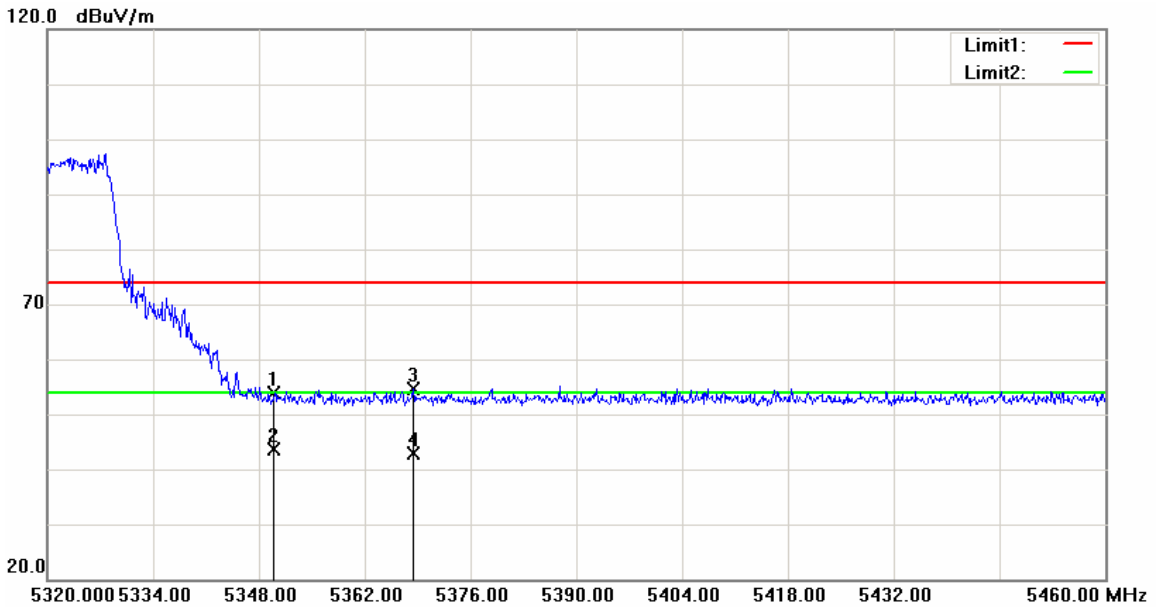
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5083.100	48.27	5.61	53.88	74.00	-20.12	peak
2	5083.100	38.15	5.61	43.76	54.00	-10.24	AVG
3	5150.000	46.63	5.71	52.34	74.00	-21.66	peak
4	5150.000	38.43	5.71	44.14	54.00	-9.86	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



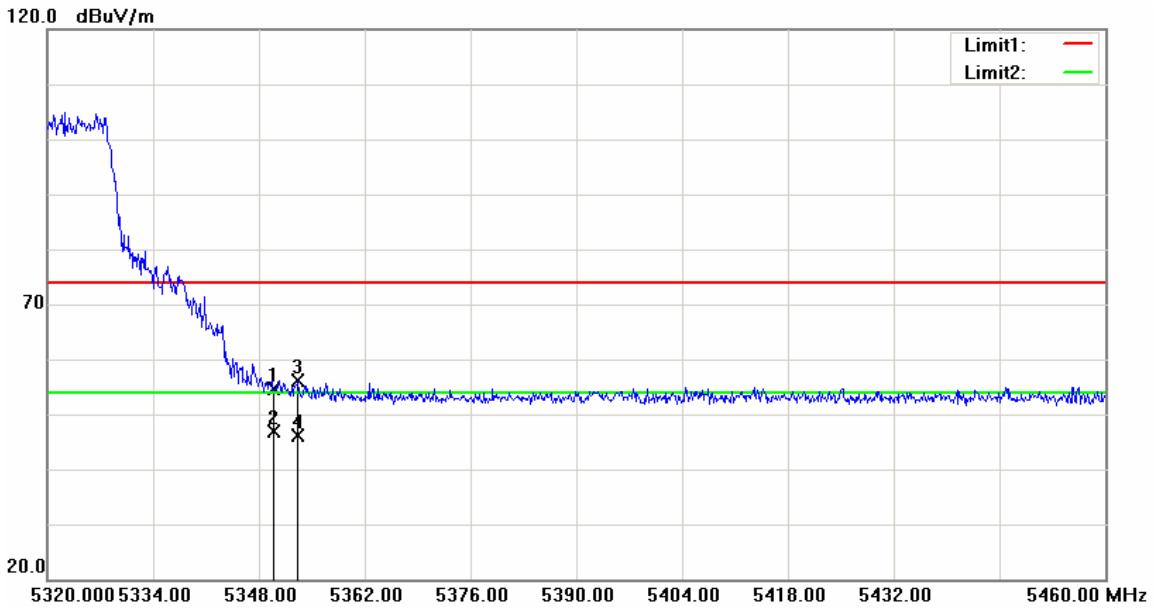
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.500	49.96	5.71	55.67	74.00	-18.33	peak
2	5147.500	39.95	5.71	45.66	54.00	-8.34	AVG
3	5150.000	51.08	5.71	56.79	74.00	-17.21	peak
4	5150.000	41.26	5.71	46.97	54.00	-7.03	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



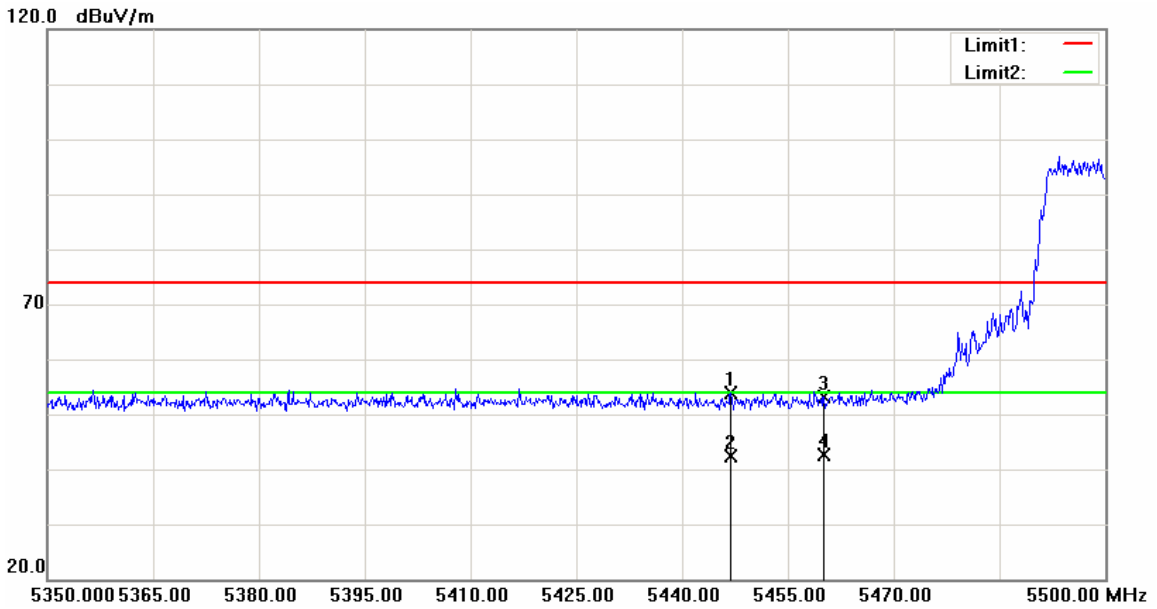
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.78	6.02	53.80	74.00	-20.20	peak
2	5350.000	37.65	6.02	43.67	54.00	-10.33	AVG
3	5368.440	48.61	6.04	54.65	74.00	-19.35	peak
4	5368.440	36.88	6.04	42.92	54.00	-11.08	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



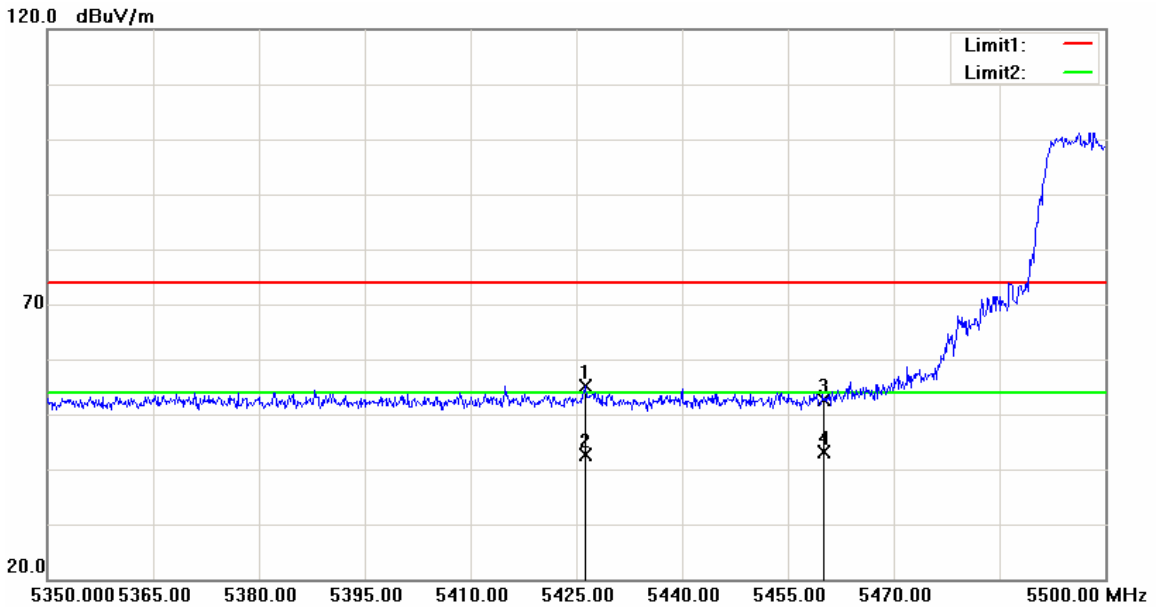
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	48.55	6.02	54.57	74.00	-19.43	peak
2	5350.000	40.74	6.02	46.76	54.00	-7.24	AVG
3	5353.180	50.04	6.02	56.06	74.00	-17.94	peak
4	5353.180	40.00	6.02	46.02	54.00	-7.98	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



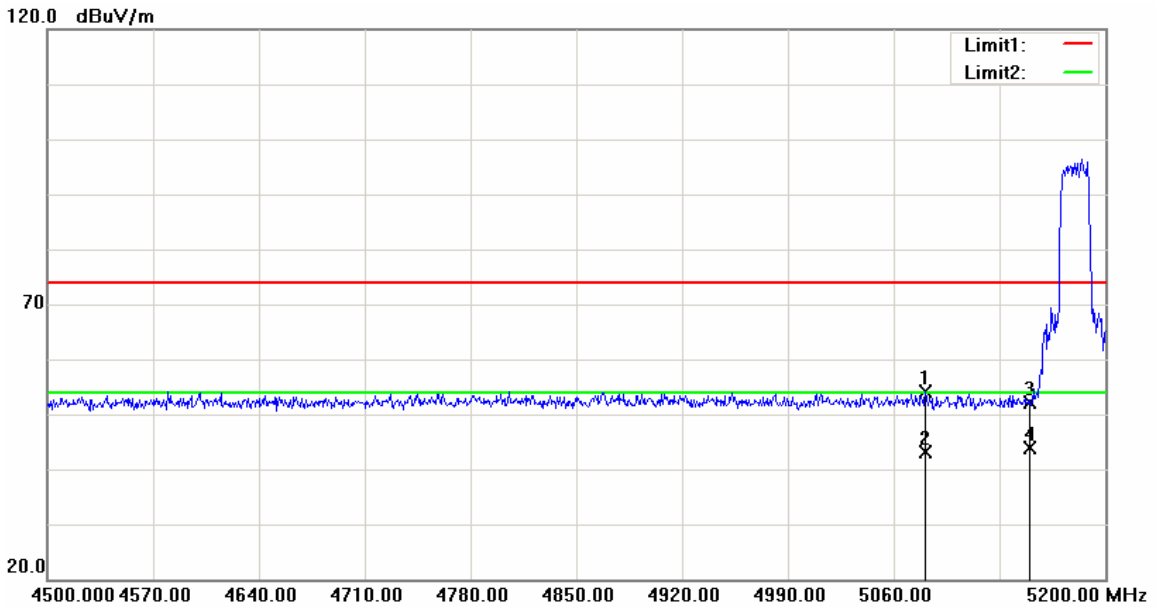
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5446.900	47.75	6.17	53.92	74.00	-20.08	peak
2	5446.900	36.18	6.17	42.35	54.00	-11.65	AVG
3	5460.000	46.90	6.20	53.10	74.00	-20.90	peak
4	5460.000	36.38	6.20	42.58	54.00	-11.42	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/18/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



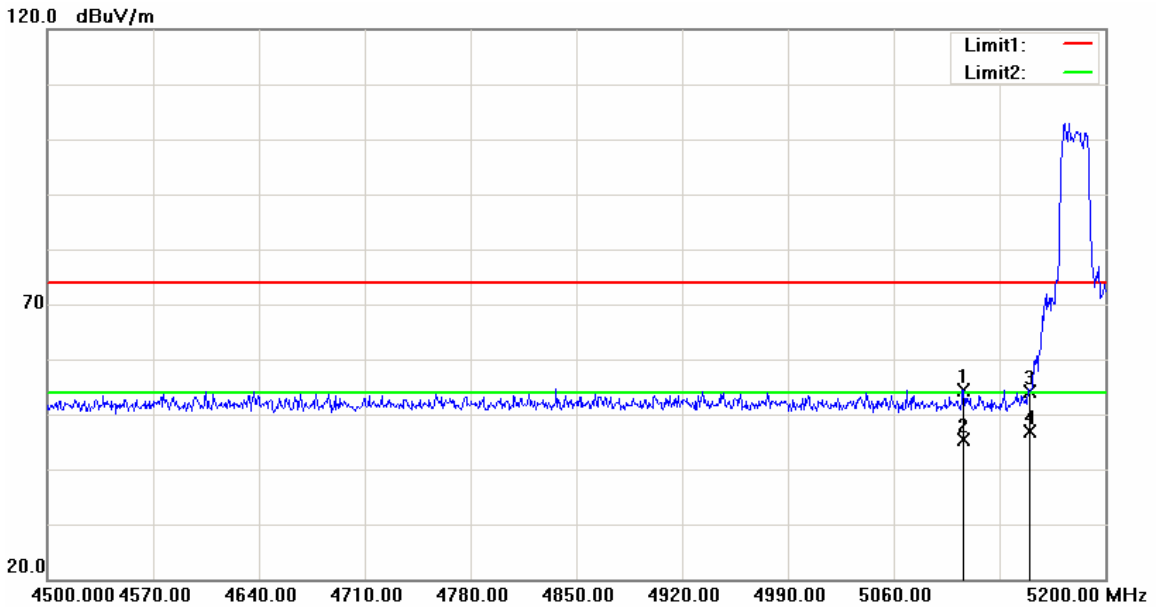
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5426.350	48.91	6.14	55.05	74.00	-18.95	peak
2	5426.350	36.52	6.14	42.66	54.00	-11.34	AVG
3	5460.000	46.41	6.20	52.61	74.00	-21.39	peak
4	5460.000	37.03	6.20	43.23	54.00	-10.77	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



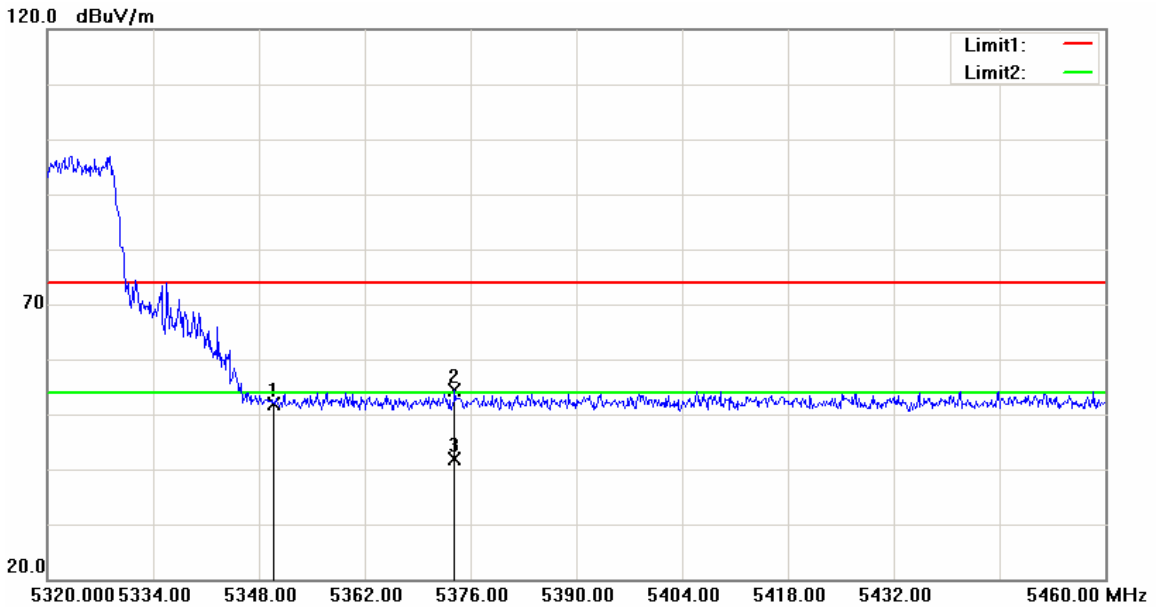
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5081.000	48.51	5.61	54.12	74.00	-19.88	peak
2	5081.000	37.45	5.61	43.06	54.00	-10.94	AVG
3	5150.000	46.35	5.71	52.06	74.00	-21.94	peak
4	5150.000	38.26	5.71	43.97	54.00	-10.03	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



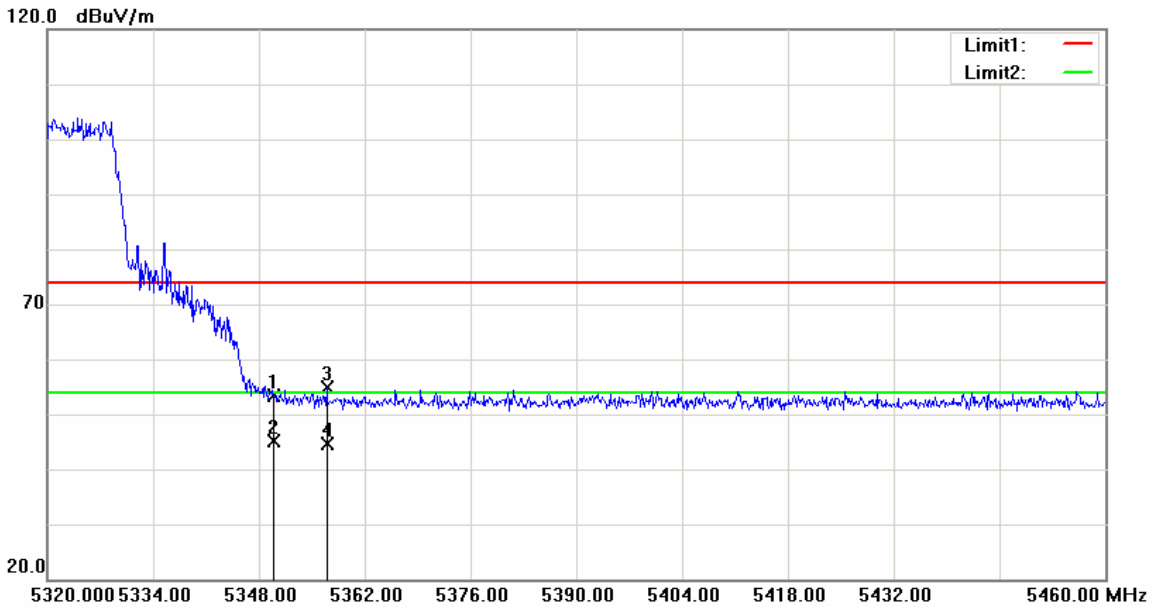
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5106.200	48.75	5.64	54.39	74.00	-19.61	peak
2	5106.200	39.63	5.64	45.27	54.00	-8.73	AVG
3	5150.000	48.34	5.71	54.05	74.00	-19.95	peak
4	5150.000	41.05	5.71	46.76	54.00	-7.24	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



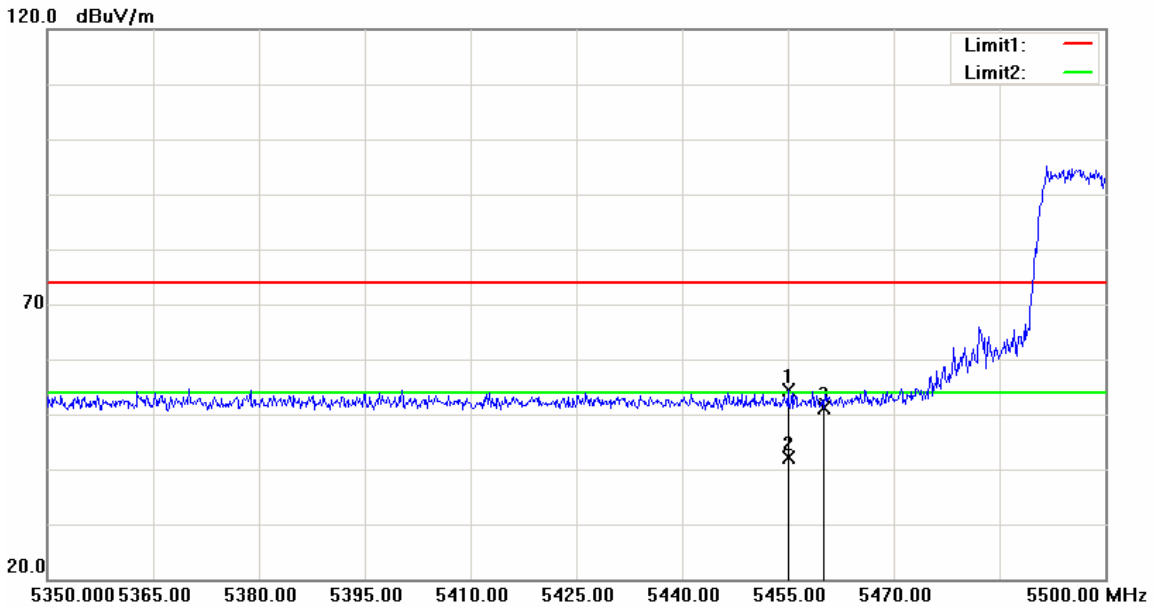
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	45.94	6.02	51.96	74.00	-22.04	peak
2	5373.900	48.23	6.05	54.28	74.00	-19.72	peak
3	5373.900	35.86	6.05	41.91	54.00	-12.09	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



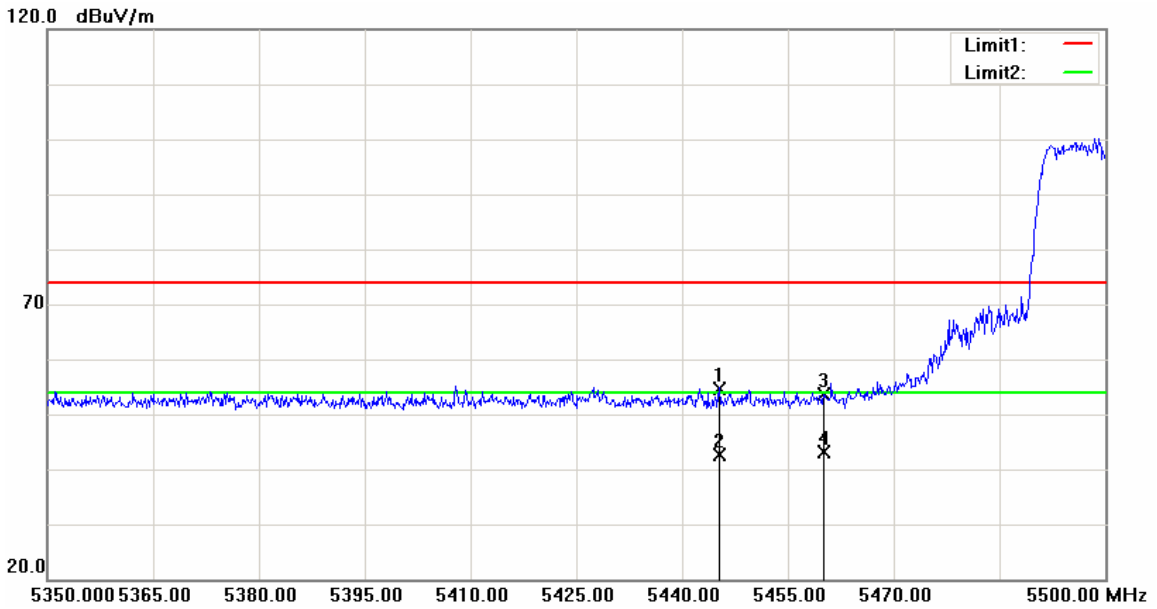
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.46	6.02	53.48	74.00	-20.52	peak
2	5350.000	39.17	6.02	45.19	54.00	-8.81	AVG
3	5356.960	48.89	6.02	54.91	74.00	-19.09	peak
4	5356.960	38.54	6.02	44.56	54.00	-9.44	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



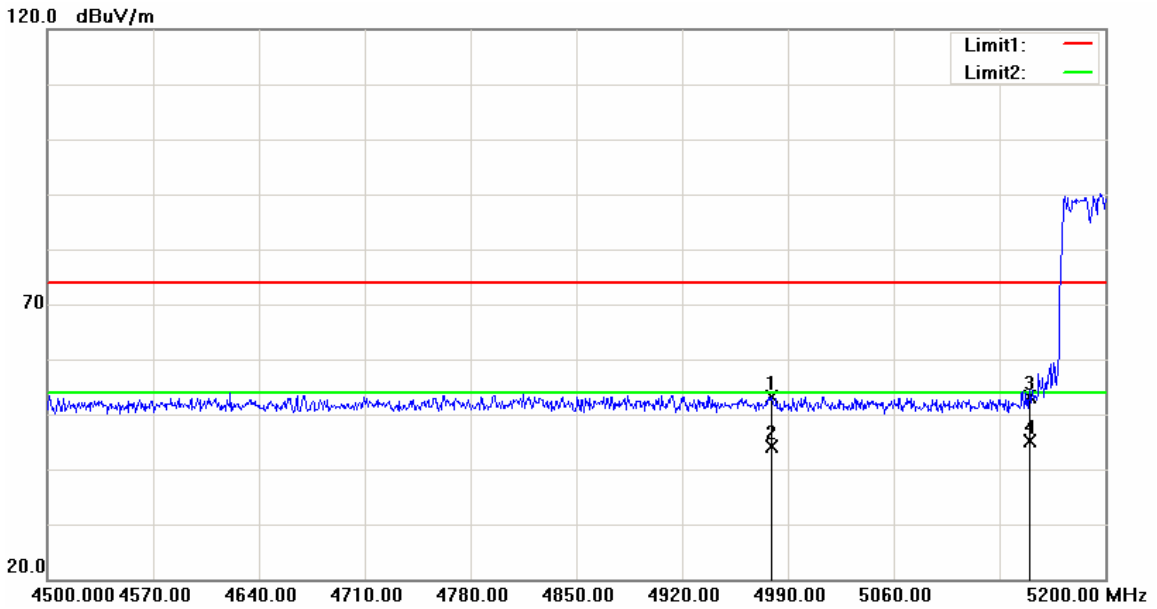
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5455.000	48.18	6.17	54.35	74.00	-19.65	peak
2	5455.000	36.06	6.17	42.23	54.00	-11.77	AVG
3	5460.000	45.00	6.20	51.20	74.00	-22.80	peak

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/18/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



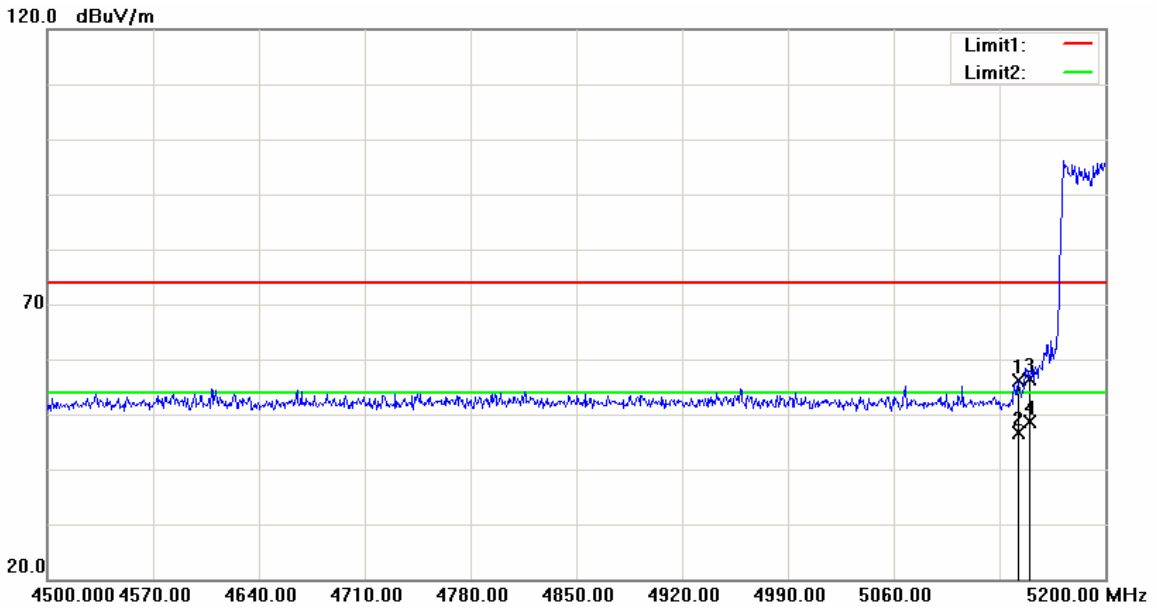
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5445.250	48.58	6.17	54.75	74.00	-19.25	peak
2	5445.250	36.41	6.17	42.58	54.00	-11.42	AVG
3	5460.000	47.31	6.20	53.51	74.00	-20.49	peak
4	5460.000	37.00	6.20	43.20	54.00	-10.80	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5190 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



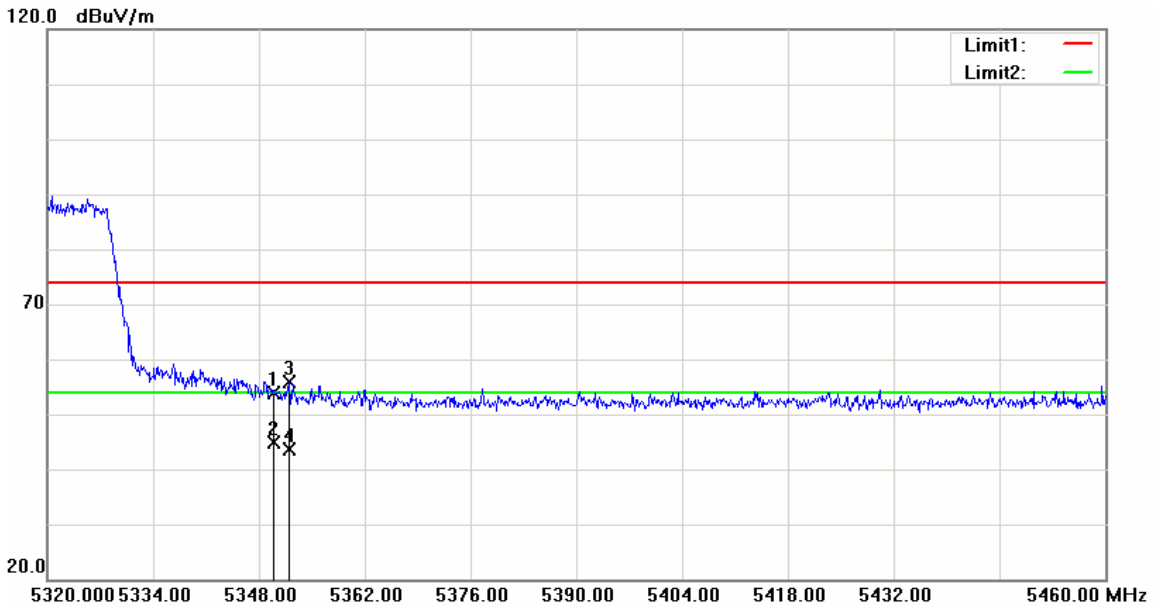
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4978.800	47.74	5.43	53.17	74.00	-20.83	peak
2	4978.800	38.67	5.43	44.10	54.00	-9.90	AVG
3	5150.000	47.53	5.71	53.24	74.00	-20.76	peak
4	5150.000	39.47	5.71	45.18	54.00	-8.82	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5190 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



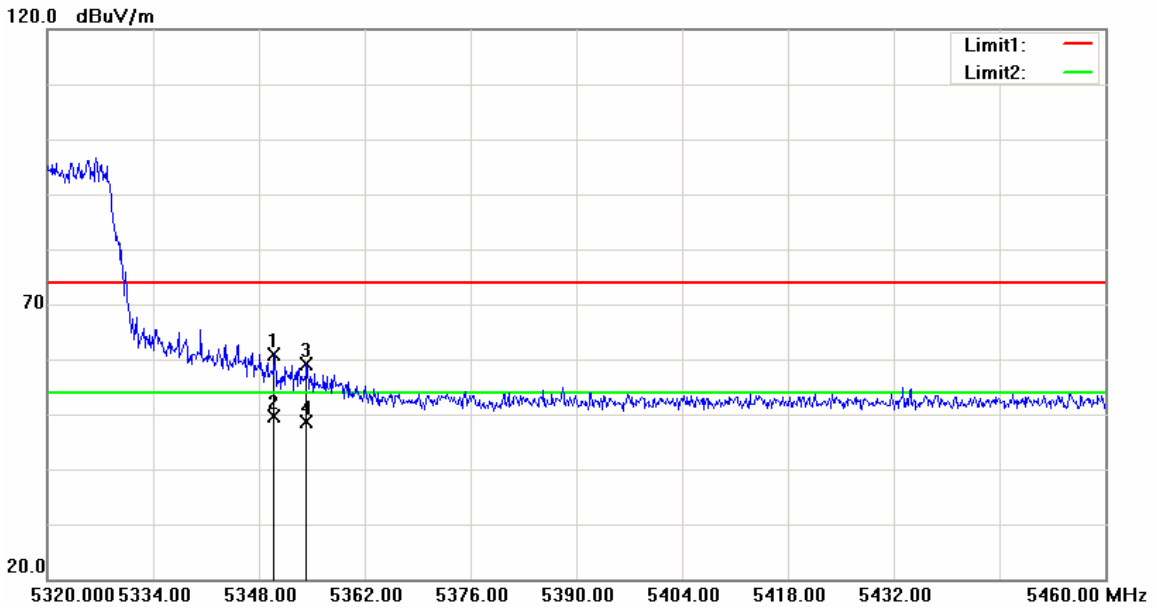
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.600	50.45	5.71	56.16	74.00	-17.84	peak
2	5142.600	40.95	5.71	46.66	54.00	-7.34	AVG
3	5150.000	50.72	5.71	56.43	74.00	-17.57	peak
4	5150.000	43.03	5.71	48.74	54.00	-5.26	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5310 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



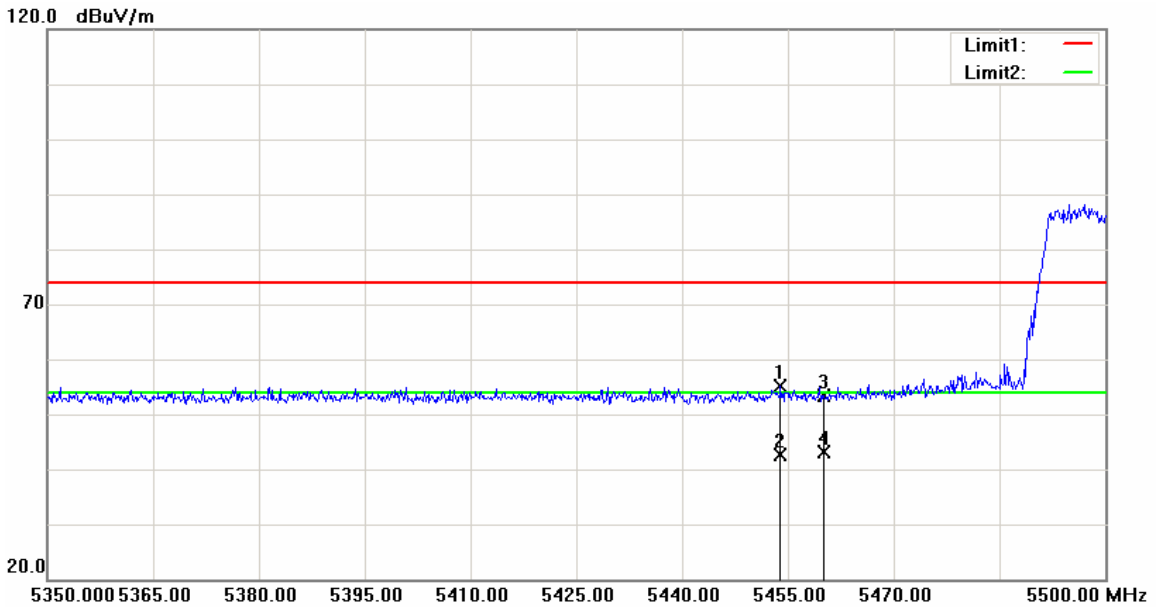
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.98	6.02	54.00	74.00	-20.00	peak
2	5350.000	38.92	6.02	44.94	54.00	-9.06	AVG
3	5352.060	49.75	6.02	55.77	74.00	-18.23	peak
4	5352.060	37.59	6.02	43.61	54.00	-10.39	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5310 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



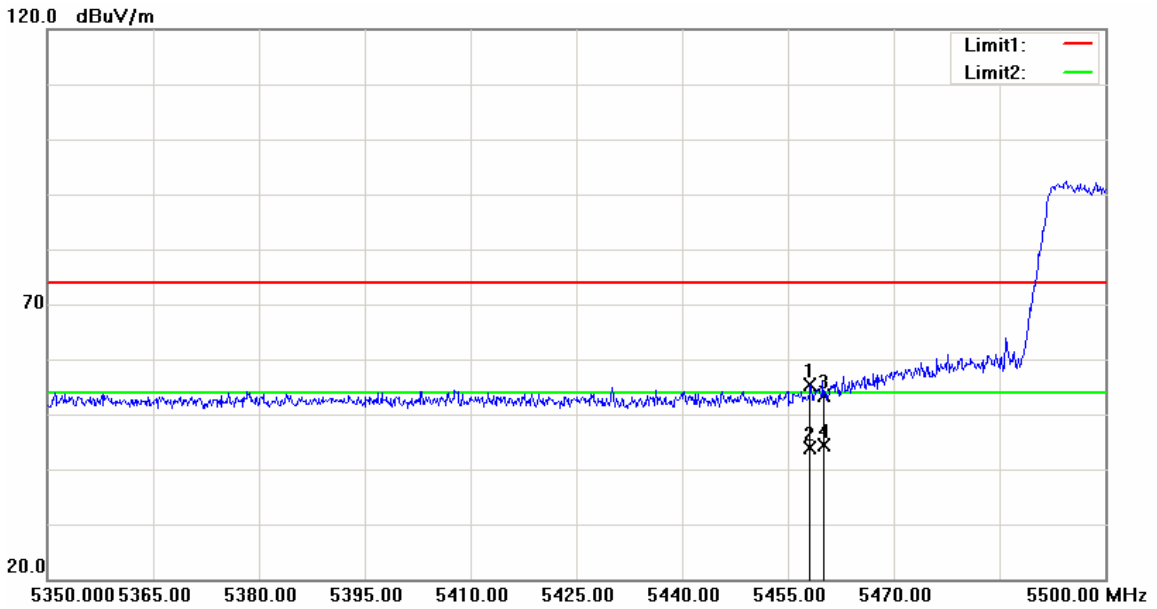
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	54.96	6.02	60.98	74.00	-13.02	peak
2	5350.000	43.59	6.02	49.61	54.00	-4.39	AVG
3	5354.300	53.15	6.02	59.17	74.00	-14.83	peak
4	5354.300	42.52	6.02	48.54	54.00	-5.46	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5510 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



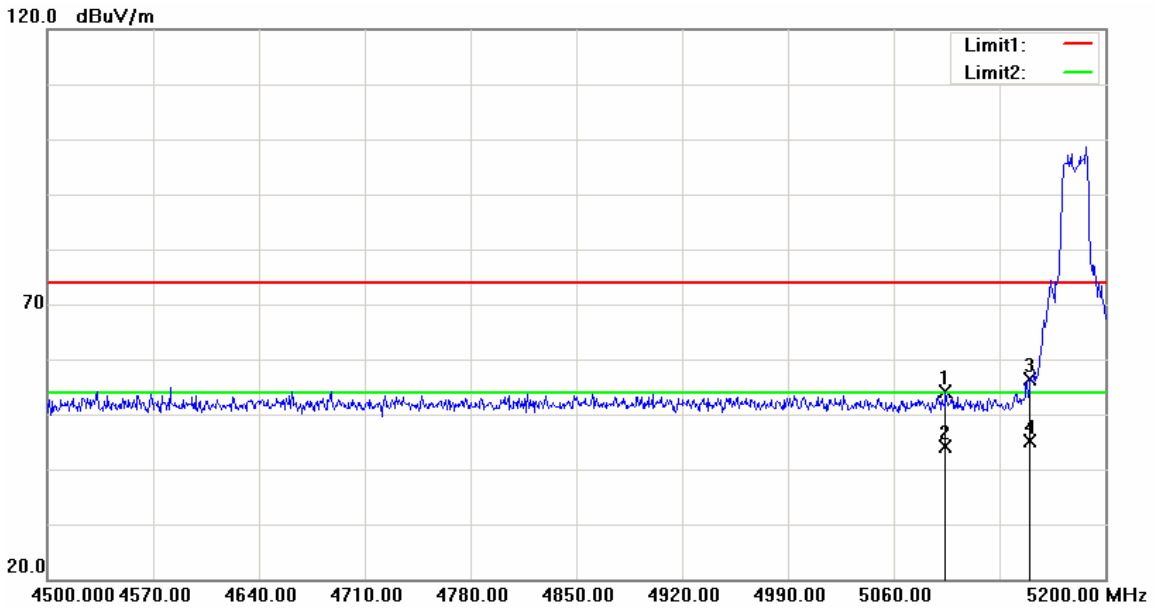
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5453.950	49.03	6.17	55.20	74.00	-18.80	peak
2	5453.950	36.57	6.17	42.74	54.00	-11.26	AVG
3	5460.000	47.13	6.20	53.33	74.00	-20.67	peak
4	5460.000	36.97	6.20	43.17	54.00	-10.83	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/18/2014
Frequency:	5510 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



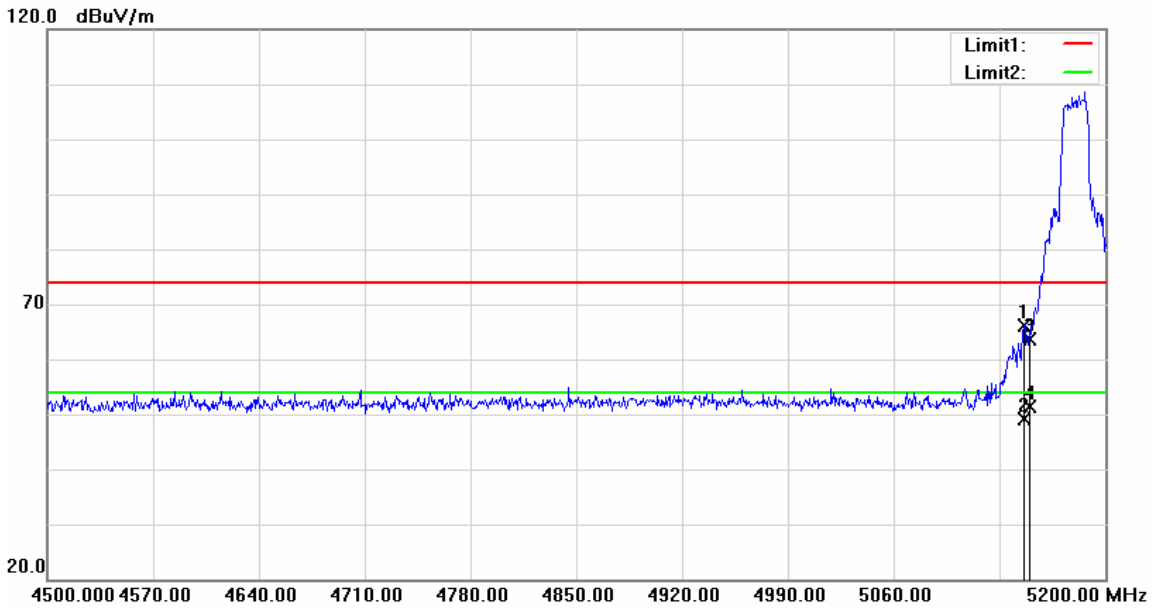
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.150	49.12	6.18	55.30	74.00	-18.70	peak
2	5458.150	37.65	6.18	43.83	54.00	-10.17	AVG
3	5460.000	47.07	6.20	53.27	74.00	-20.73	peak
4	5460.000	38.24	6.20	44.44	54.00	-9.56	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



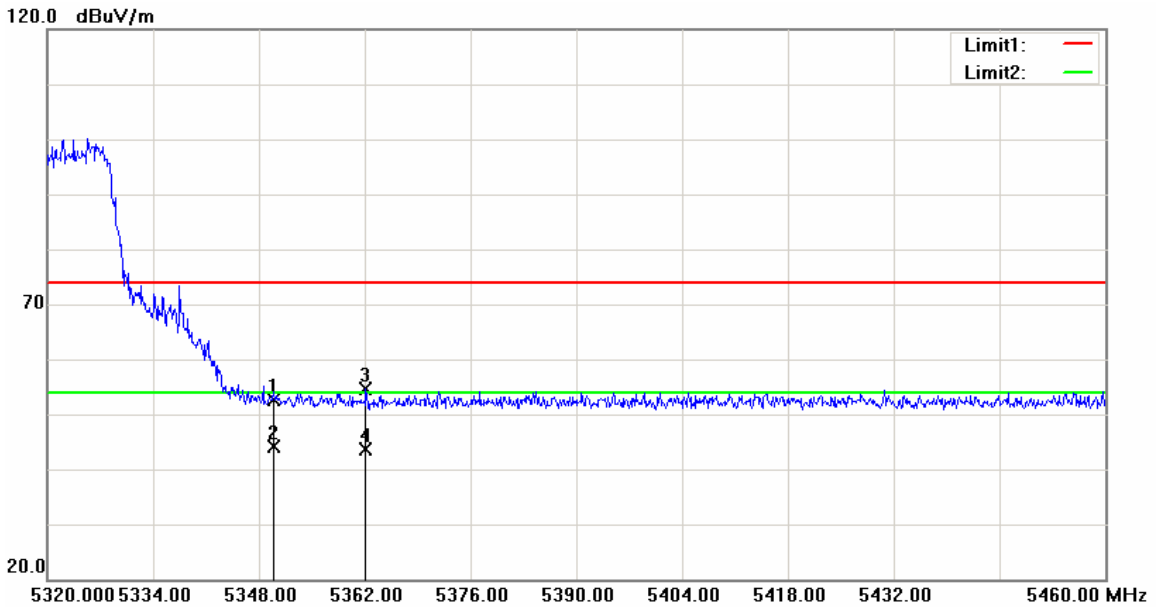
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5094.300	48.46	5.63	54.09	74.00	-19.91	peak
2	5094.300	38.61	5.63	44.24	54.00	-9.76	AVG
3	5150.000	50.55	5.71	56.26	74.00	-17.74	peak
4	5150.000	39.44	5.71	45.15	54.00	-8.85	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



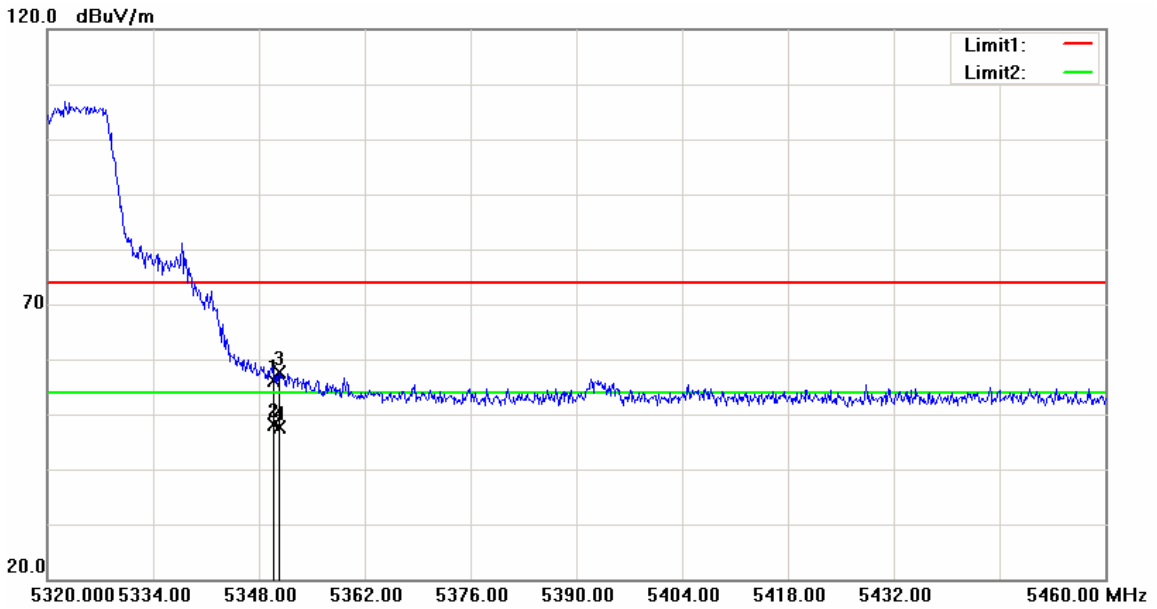
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	60.51	5.71	66.22	74.00	-7.78	peak
2	5146.100	43.46	5.71	49.17	54.00	-4.83	AVG
3	5150.000	57.85	5.71	63.56	74.00	-10.44	peak
4	5150.000	45.78	5.71	51.49	54.00	-2.51	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



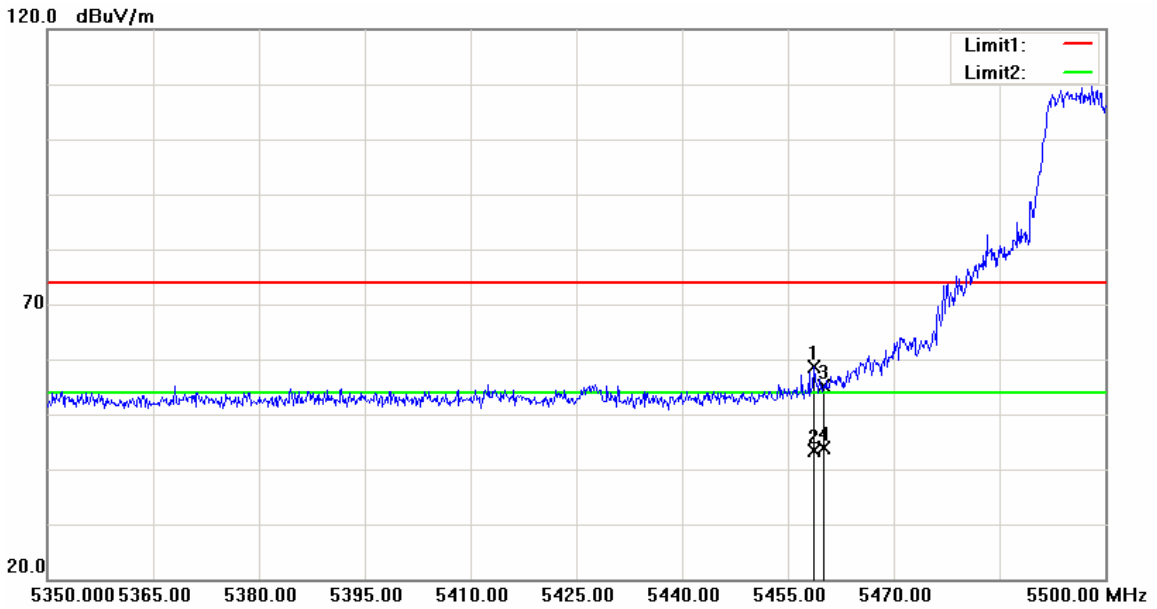
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	46.65	6.02	52.67	74.00	-21.33	peak
2	5350.000	38.14	6.02	44.16	54.00	-9.84	AVG
3	5362.140	48.61	6.04	54.65	74.00	-19.35	peak
4	5362.140	37.67	6.04	43.71	54.00	-10.29	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



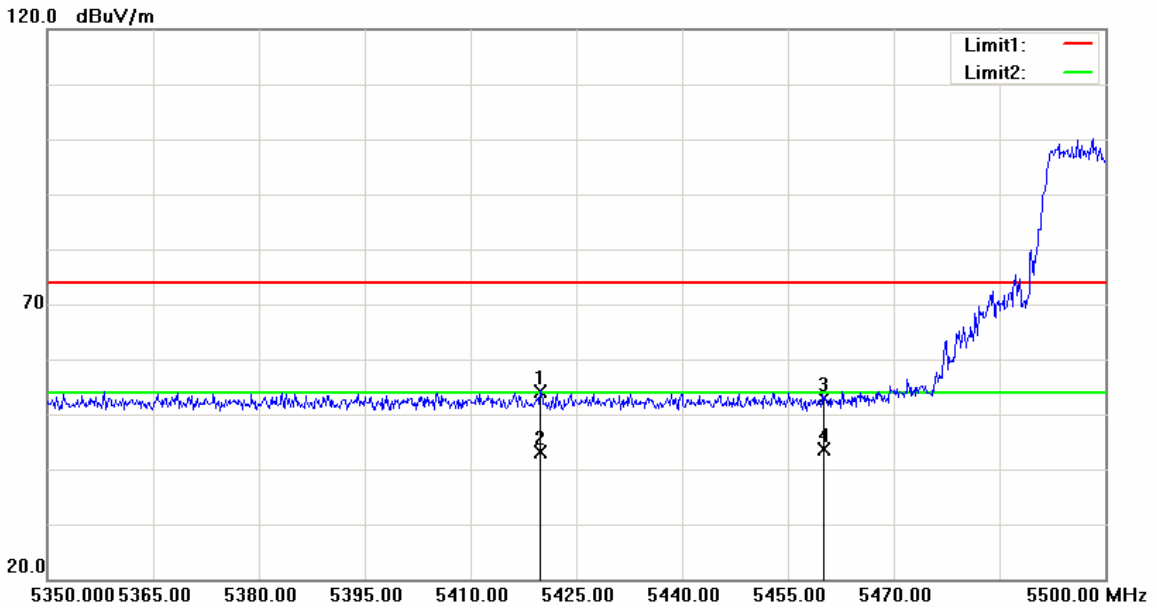
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	50.08	6.02	56.10	74.00	-17.90	peak
2	5350.000	41.99	6.02	48.01	54.00	-5.99	AVG
3	5350.660	51.63	6.02	57.65	74.00	-16.35	peak
4	5350.660	41.68	6.02	47.70	54.00	-6.30	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



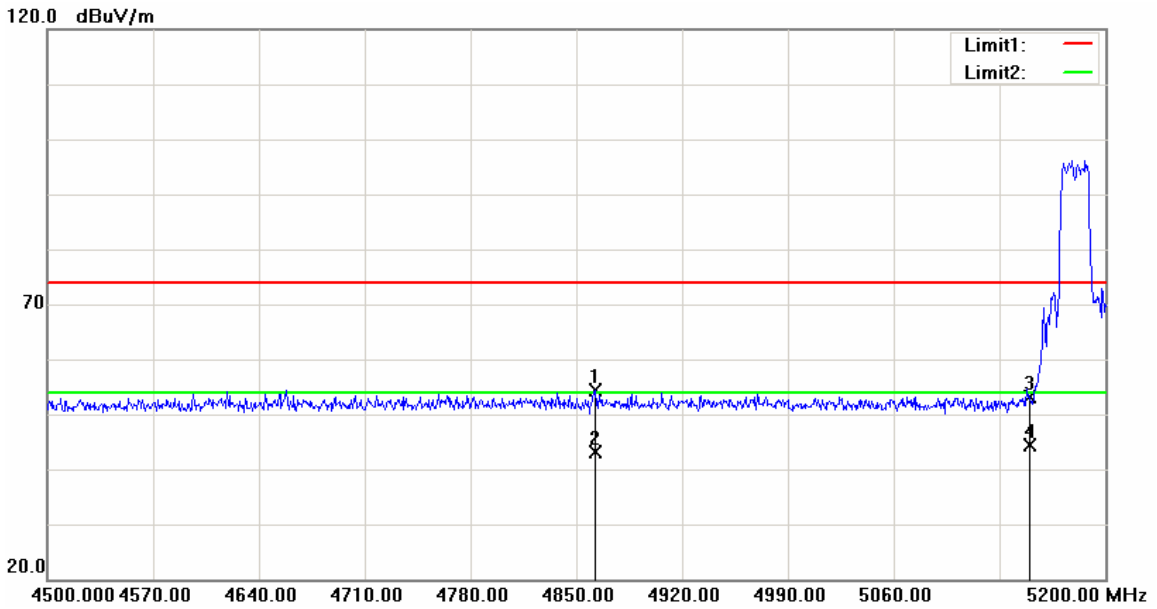
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.750	52.54	6.20	58.74	74.00	-15.26	peak
2	5458.750	37.14	6.20	43.34	54.00	-10.66	AVG
3	5460.000	48.95	6.20	55.15	74.00	-18.85	peak
4	5460.000	37.69	6.20	43.89	54.00	-10.11	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	07/16/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



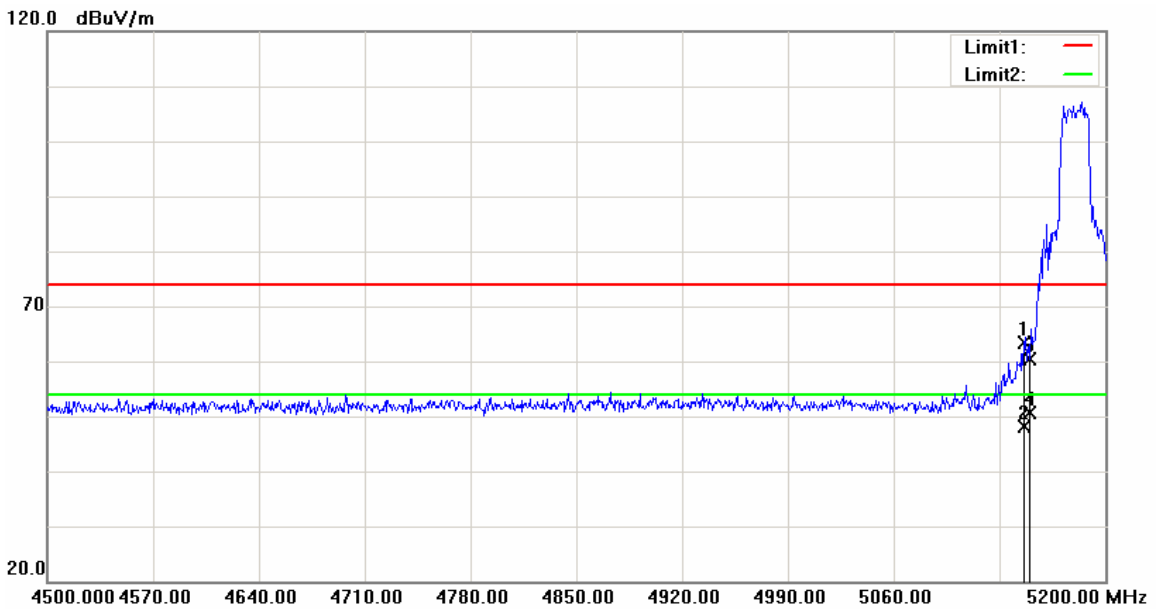
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5419.900	48.13	6.12	54.25	74.00	-19.75	peak
2	5419.900	37.01	6.12	43.13	54.00	-10.87	AVG
3	5460.000	46.64	6.20	52.84	74.00	-21.16	peak
4	5460.000	37.46	6.20	43.66	54.00	-10.34	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



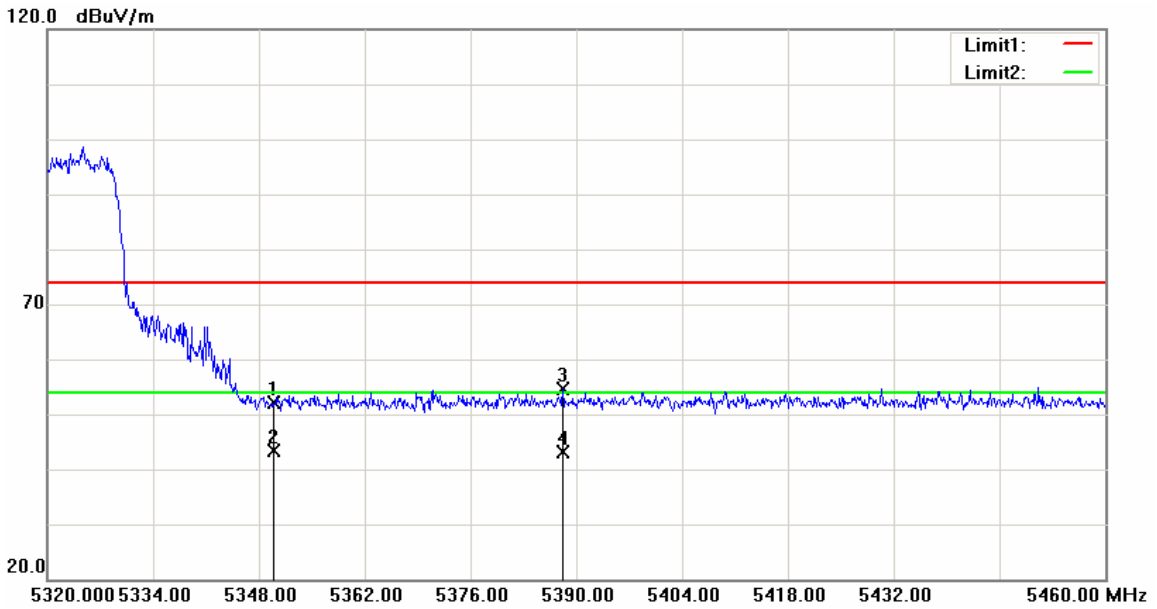
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4862.600	49.13	5.13	54.26	74.00	-19.74	peak
2	4862.600	38.06	5.13	43.19	54.00	-10.81	AVG
3	5150.000	47.51	5.71	53.22	74.00	-20.78	peak
4	5150.000	38.60	5.71	44.31	54.00	-9.69	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5180 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



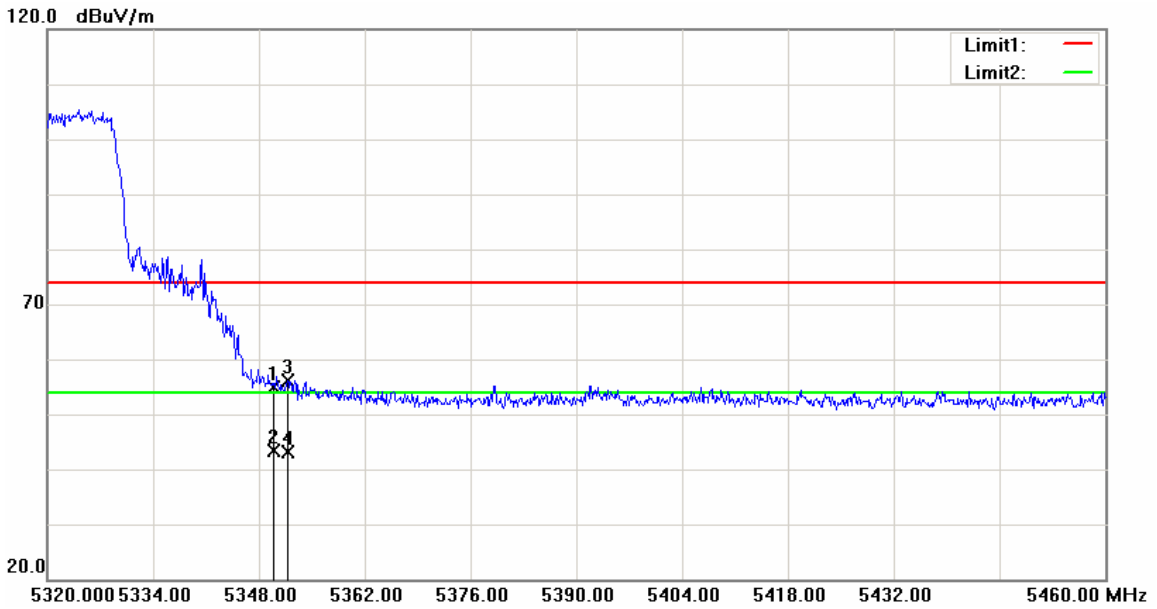
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	57.79	5.71	63.50	74.00	-10.50	peak
2	5146.100	42.52	5.71	48.23	54.00	-5.77	AVG
3	5150.000	54.71	5.71	60.42	74.00	-13.58	peak
4	5150.000	44.92	5.71	50.63	54.00	-3.37	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



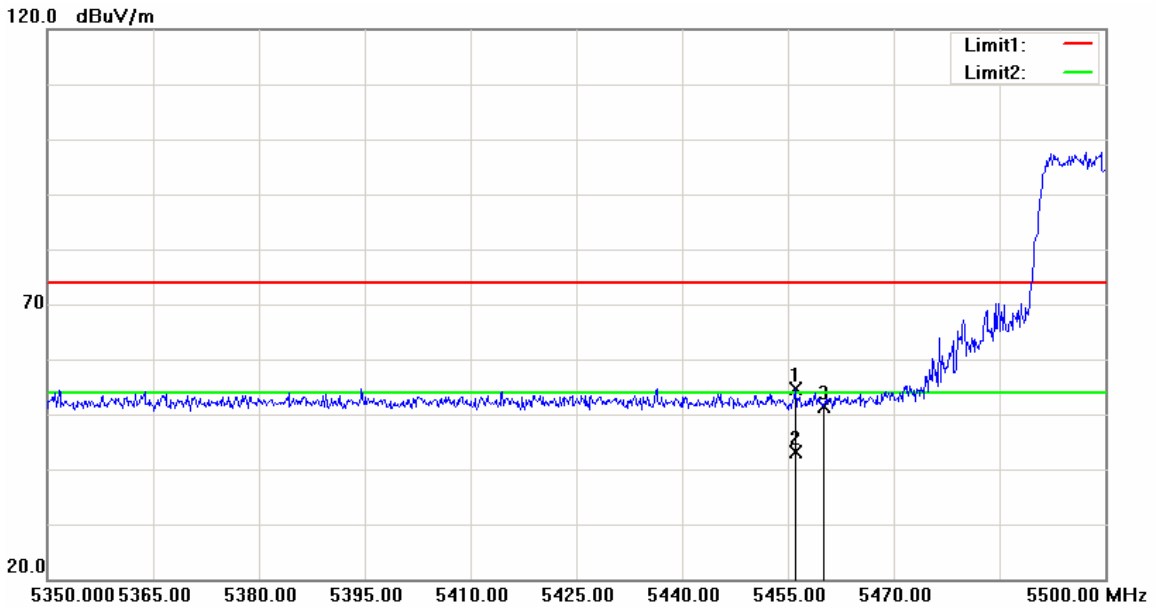
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	46.21	6.02	52.23	74.00	-21.77	peak
2	5350.000	37.24	6.02	43.26	54.00	-10.74	AVG
3	5388.180	48.44	6.08	54.52	74.00	-19.48	peak
4	5388.180	36.98	6.08	43.06	54.00	-10.94	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5320 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



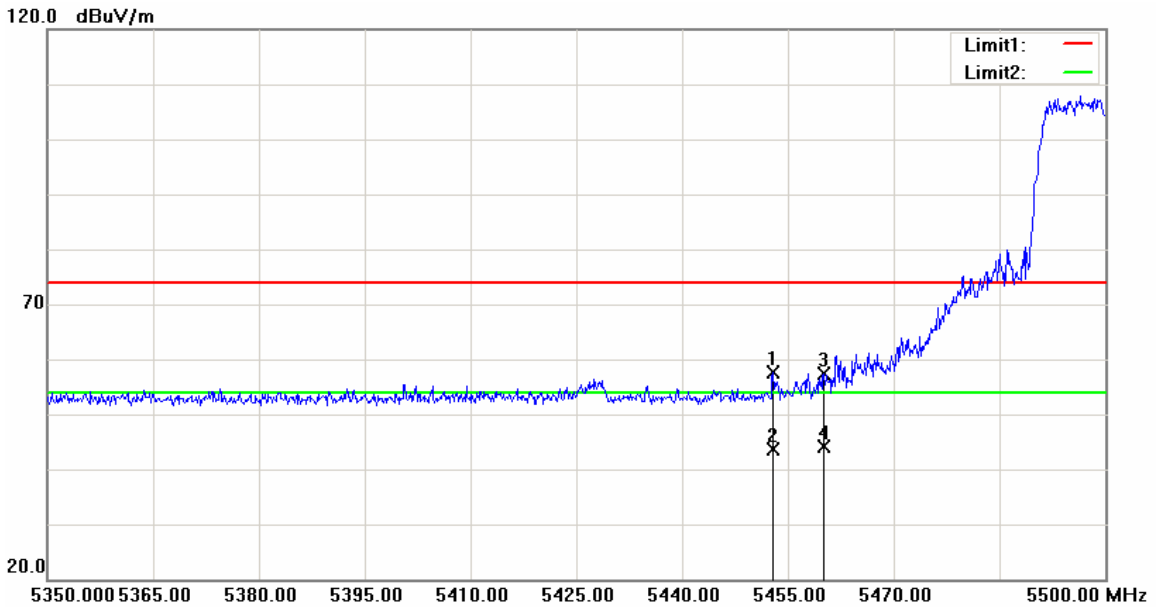
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	48.78	6.02	54.80	74.00	-19.20	peak
2	5350.000	37.48	6.02	43.50	54.00	-10.50	AVG
3	5351.780	50.02	6.02	56.04	74.00	-17.96	peak
4	5351.780	37.09	6.02	43.11	54.00	-10.89	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



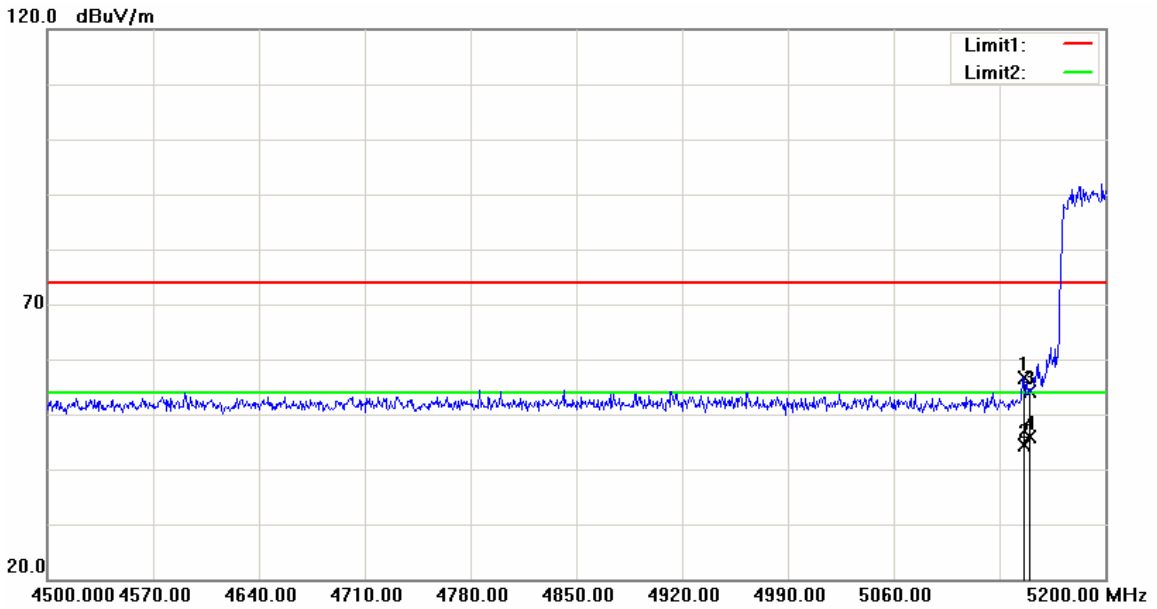
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5456.050	48.36	6.17	54.53	74.00	-19.47	peak
2	5456.050	37.06	6.17	43.23	54.00	-10.77	AVG
3	5460.000	45.29	6.20	51.49	74.00	-22.51	peak

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	07/16/2014
Frequency:	5500 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



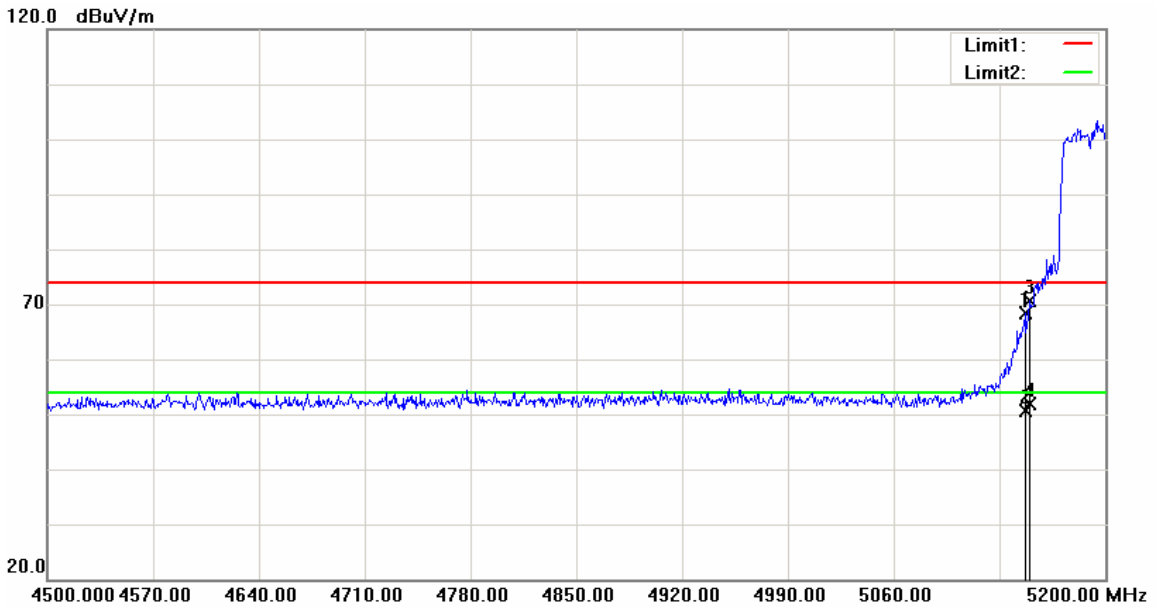
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5452.900	51.45	6.17	57.62	74.00	-16.38	peak
2	5452.900	37.56	6.17	43.73	54.00	-10.27	AVG
3	5460.000	51.13	6.20	57.33	74.00	-16.67	peak
4	5460.000	37.97	6.20	44.17	54.00	-9.83	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5190 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



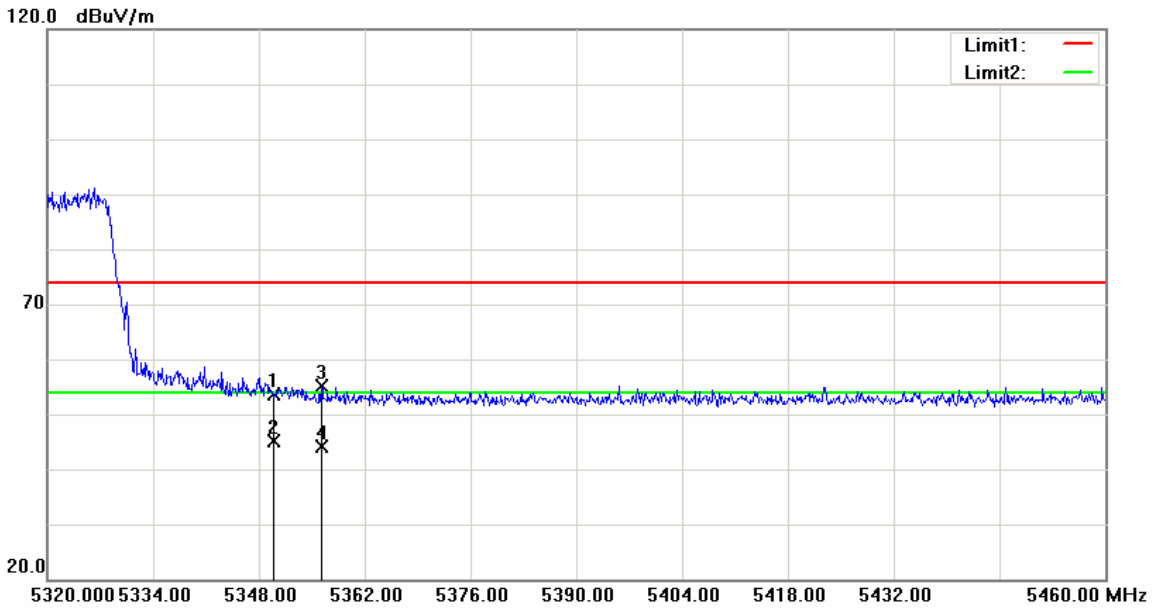
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.100	50.86	5.71	56.57	74.00	-17.43	peak
2	5146.100	38.63	5.71	44.34	54.00	-9.66	AVG
3	5150.000	48.37	5.71	54.08	74.00	-19.92	peak
4	5150.000	40.05	5.71	45.76	54.00	-8.24	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5190 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



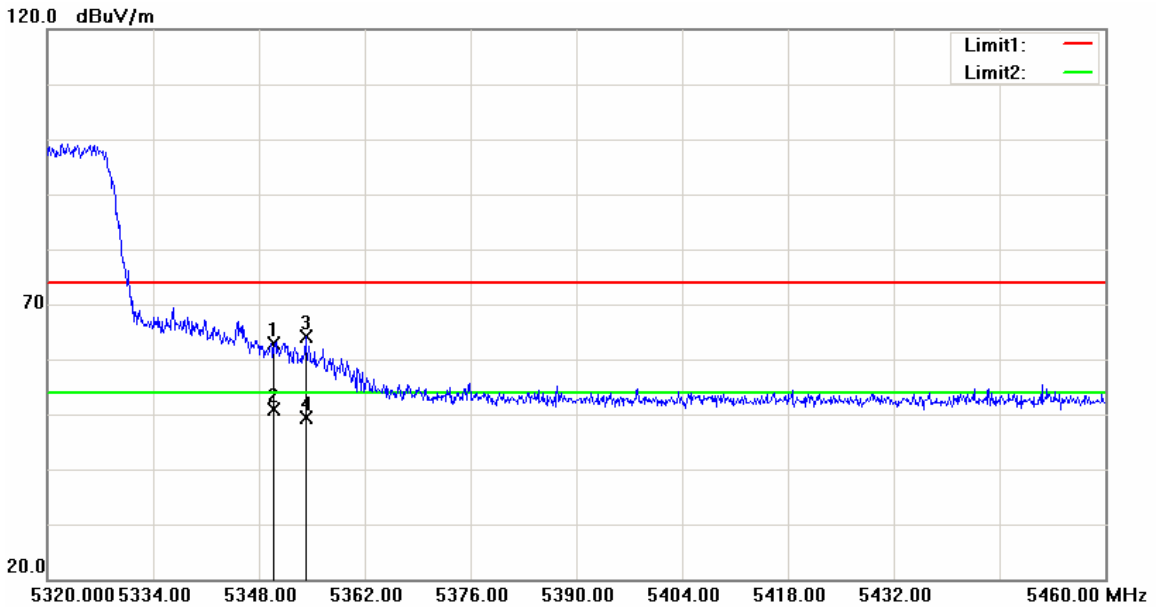
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5146.800	62.56	5.71	68.27	74.00	-5.73	peak
2	5146.800	44.95	5.71	50.66	54.00	-3.34	AVG
3	5150.000	64.90	5.71	70.61	74.00	-3.39	peak
4	5150.000	46.05	5.71	51.76	54.00	-2.24	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5310 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



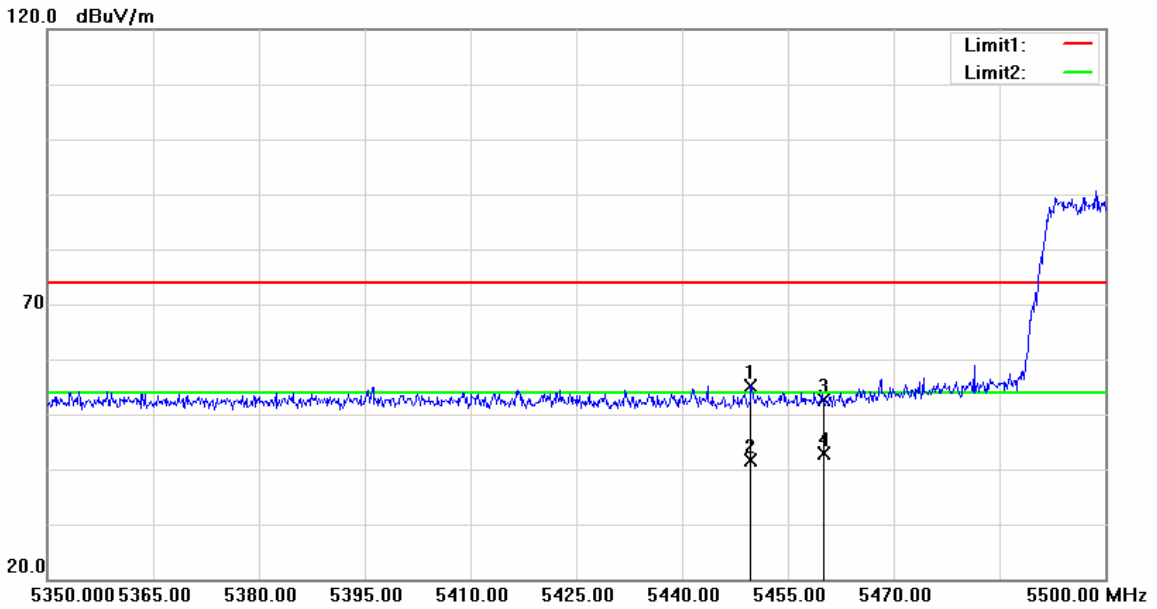
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	47.69	6.02	53.71	74.00	-20.29	peak
2	5350.000	39.06	6.02	45.08	54.00	-8.92	AVG
3	5356.260	49.18	6.02	55.20	74.00	-18.80	peak
4	5356.260	38.23	6.02	44.25	54.00	-9.75	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5310 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



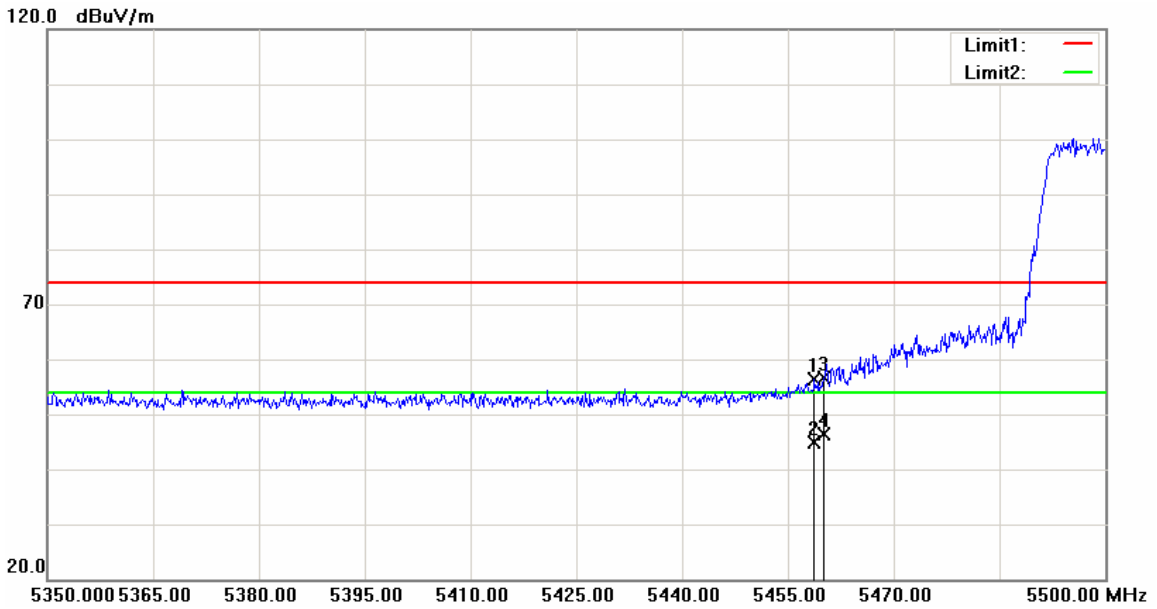
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5350.000	56.75	6.02	62.77	74.00	-11.23	peak
2	5350.000	44.90	6.02	50.92	54.00	-3.08	AVG
3	5354.160	58.23	6.02	64.25	74.00	-9.75	peak
4	5354.160	43.36	6.02	49.38	54.00	-4.62	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5510 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5449.750	49.04	6.17	55.21	74.00	-18.79	peak
2	5449.750	35.36	6.17	41.53	54.00	-12.47	AVG
3	5460.000	46.35	6.20	52.55	74.00	-21.45	peak
4	5460.000	36.56	6.20	42.76	54.00	-11.24	AVG

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	Omni S2 Rechargeable	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	07/16/2014
Frequency:	5510 MHz	Test By:	Eric Ou Yang
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5458.750	50.07	6.20	56.27	74.00	-17.73	peak
2	5458.750	38.71	6.20	44.91	54.00	-9.09	AVG
3	5460.000	50.46	6.20	56.66	74.00	-17.34	peak
4	5460.000	40.17	6.20	46.37	54.00	-7.63	AVG

6 Maximum Conducted Output Power and EIRP Measurement

6.1. Limit

Conducted Output Power

Frequency Range (MHz)	FCC Limit
5.150 ~ 5.250 GHz	The lesser of 250mW (24dBm)
5.250 ~ 5.350 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.470 ~ 5.725 GHz	The lesser of 250mW (24dBm) or 11dBm + 10log (B)
5.725 ~ 5.850 GHz	The lesser of 1000mW (30dBm)

Frequency Range (MHz)	IC Limit
5.150 ~ 5.250 GHz	N/A
5.250 ~ 5.350 GHz	The loeeser of 250mW or 11dBm+10*log (B)
5.470 ~ 5.600 GHz and 5650~5725MHz	The loeeser of 250mW or 11dBm+10*log (B)
5.725 ~ 5.825 GHz	The loeeser of 1W or 17dBm+10*log (B)

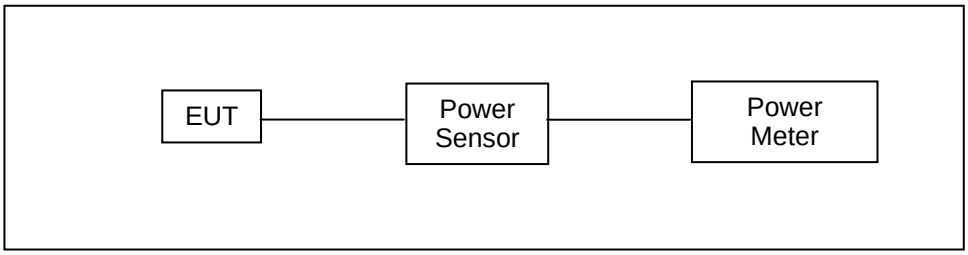
Note: Where B is the 26dB emission bandwidth in MHz.

EIRP

Frequency Range (MHz)	IC Limit
5.150 ~ 5.250 GHz	The loeeser of 200mW or 10dBm+10*log (B)
5.250 ~ 5.350 GHz	The loeeser of 1W or 17dBm+10*log (B)
5.470 ~ 5.600 GHz and 5650~5725MHz	The loeeser of 1W or 17dBm+10*log (B)
5.725 ~ 5.825 GHz	The loeeser of 4W or 23dBm+10*log (B)

Note: Where B is the 26dB emission bandwidth in MHz.

6.2. Test Setup



6.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Power Sensor	Anritsu	MA2411B	1126022	08/19/2013	(1)
Power Meter	Anritsu	ML2495A	1135009	08/19/2013	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

6.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

6.5. Test Result

Model Number	Omni S2									
Test Item	Maximum Conducted Output Power									
Test Mode	Mode 2: IEEE 802.11a Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power		Peak Power		Average Power		Peak Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180.0	6M	13.35	0.022	21.17	0.131	13.20	0.021	21.01	0.126	< 24	N/A
5200.0		13.61	0.023	21.74	0.149	13.59	0.023	21.58	0.144		
5220.0		13.20	0.021	21.50	0.141	13.05	0.020	21.34	0.136		
5240.0		13.34	0.022	21.54	0.143	13.19	0.021	21.38	0.137		
5260.0		13.60	0.023	21.68	0.147	13.46	0.022	21.53	0.142	< 24	< 24
5280.0		13.52	0.022	21.27	0.134	13.38	0.022	21.12	0.129		
5300.0		13.08	0.020	20.99	0.126	12.94	0.020	20.84	0.121		
5320.0		12.25	0.017	20.77	0.119	12.11	0.016	20.62	0.115		
5500.0		12.10	0.016	21.01	0.126	12.02	0.016	20.91	0.123	< 24	< 24
5520.0		12.05	0.016	20.45	0.111	11.97	0.016	20.35	0.108		
5540.0		12.14	0.016	20.59	0.115	12.06	0.016	20.49	0.112		
5560.0		12.09	0.016	20.30	0.107	12.01	0.016	20.20	0.105		
5580.0		12.04	0.016	20.16	0.104	11.96	0.016	20.06	0.101		
5600.0		11.84	0.015	20.47	0.111	11.76	0.015	20.37	0.109		N/A
5620.0		11.83	0.015	20.33	0.108	11.75	0.015	20.23	0.105		
5640.0		11.81	0.015	20.26	0.106	11.73	0.015	20.16	0.104		
5660.0		11.85	0.015	20.56	0.114	11.77	0.015	20.46	0.111		< 24
5680.0		11.78	0.015	20.23	0.105	11.70	0.015	20.13	0.103		
5700.0		12.22	0.017	20.12	0.103	12.14	0.016	20.02	0.100		
5745.0		11.81	0.015	19.76	0.095	11.67	0.015	19.63	0.092	< 30	< 30
5765.0		12.00	0.016	19.82	0.096	11.86	0.015	19.69	0.093		
5785.0		12.49	0.018	19.93	0.098	12.35	0.017	19.80	0.095		
5805.0		11.76	0.015	19.73	0.094	11.62	0.015	19.60	0.091		
5825.0		11.66	0.015	19.78	0.095	11.52	0.014	19.65	0.092		

Model Number	Omni S2									
Test Item	Maximum Conducted Output Power									
Test Mode	Mode 2: IEEE 802.11a Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power		Peak Power		Average Power		Peak Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180.0	54M	13.23	0.021	21.07	0.128	13.09	0.020	20.88	0.122	< 24	N/A
5200.0		13.58	0.023	21.64	0.146	13.53	0.023	21.45	0.140		
5220.0		13.08	0.020	21.40	0.138	12.94	0.020	21.21	0.132		
5240.0		13.22	0.021	21.44	0.139	13.08	0.020	21.25	0.133		
5260.0		13.49	0.022	21.55	0.143	13.35	0.022	21.39	0.138	< 24	< 24
5280.0		13.41	0.022	21.14	0.130	13.27	0.021	20.98	0.125		
5300.0		12.97	0.020	20.86	0.122	12.83	0.019	20.70	0.117		
5320.0		12.14	0.016	20.64	0.116	12.00	0.016	20.48	0.112		
5500.0		11.97	0.016	20.89	0.123	11.91	0.016	20.78	0.120	< 24	< 24
5520.0		11.92	0.016	20.33	0.108	11.86	0.015	20.22	0.105		
5540.0		12.01	0.016	20.47	0.111	11.95	0.016	20.36	0.109		
5560.0		12.01	0.016	20.20	0.105	11.90	0.015	20.07	0.102		
5580.0		11.96	0.016	20.06	0.101	11.85	0.015	19.93	0.098		
5600.0		11.76	0.015	20.37	0.109	11.65	0.015	20.24	0.106		N/A
5620.0		11.75	0.015	20.23	0.105	11.64	0.015	20.10	0.102		
5640.0		11.73	0.015	20.16	0.104	11.72	0.015	20.03	0.101		
5660.0		11.77	0.015	20.46	0.111	11.66	0.015	20.33	0.108		< 24
5680.0		11.70	0.015	20.13	0.103	11.62	0.015	20.00	0.100		
5700.0		12.09	0.016	20.00	0.100	12.03	0.016	19.89	0.097		
5745.0		11.70	0.015	19.63	0.092	11.54	0.014	19.49	0.089	< 30	< 30
5765.0		11.89	0.015	19.69	0.093	11.73	0.015	19.55	0.090		
5785.0		12.38	0.017	19.80	0.095	12.22	0.017	19.66	0.092		
5805.0		11.65	0.015	19.60	0.091	11.59	0.014	19.46	0.088		
5825.0		11.55	0.014	19.65	0.092	11.51	0.014	19.54	0.090		

Model Number	Omni S2									
Test Item	Maximum Conducted Output Power									
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power		Peak Power		Average Power		Peak Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180.0	6.5M	11.28	0.013	19.91	0.098	11.21	0.013	19.81	0.096	< 24	N/A
5200.0		**11.76**	**0.015**	20.64	0.116	11.69	0.015	20.54	0.113		
5220.0		11.61	0.014	20.44	0.111	11.54	0.014	20.34	0.108		
5240.0		11.49	0.014	20.21	0.105	11.42	0.014	20.11	0.103		
5260.0		11.42	0.014	20.30	0.107	11.32	0.014	20.19	0.104	< 24	< 24
5280.0		11.34	0.014	20.21	0.105	11.24	0.013	20.10	0.102		
5300.0		10.18	0.010	19.88	0.097	10.08	0.010	19.77	0.095		
5320.0		9.83	0.010	19.74	0.094	9.79	0.010	19.63	0.092		
5500.0		10.52	0.011	19.15	0.082	10.43	0.011	19.02	0.080	< 24	< 24
5520.0		10.43	0.011	18.96	0.079	10.34	0.011	18.83	0.076		
5540.0		10.48	0.011	19.02	0.080	10.39	0.011	18.89	0.077		
5560.0		10.38	0.011	18.94	0.078	10.29	0.011	18.81	0.076		
5580.0		10.06	0.010	18.54	0.071	9.97	0.010	18.41	0.069		
5600.0		10.48	0.011	18.90	0.078	10.39	0.011	18.77	0.075	< 24	N/A
5620.0		10.39	0.011	18.79	0.076	10.30	0.011	18.66	0.073		
5640.0		10.42	0.011	18.85	0.077	10.33	0.011	18.72	0.074		
5660.0		10.29	0.011	18.63	0.073	10.20	0.010	18.50	0.071		< 24
5680.0		10.02	0.010	18.25	0.067	9.93	0.010	18.12	0.065		
5700.0		9.91	0.010	18.22	0.066	9.86	0.010	18.09	0.064		
5745.0		9.67	0.009	17.69	0.059	9.61	0.009	17.57	0.057	< 30	< 30
5765.0		9.88	0.010	17.88	0.061	9.82	0.010	17.76	0.060		
5785.0		9.92	0.010	18.02	0.063	9.86	0.010	17.90	0.062		
5805.0		10.11	0.010	18.22	0.066	10.05	0.010	18.10	0.065		
5825.0		10.35	0.011	18.38	0.069	10.29	0.011	18.26	0.067		

Model Number	Omni S2									
Test Item	Maximum Conducted Output Power									
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power		Peak Power		Average Power		Peak Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180.0	65M	11.18	0.013	19.80	0.095	11.11	0.013	19.69	0.093	< 24	N/A
5200.0		11.66	0.015	20.53	0.113	11.59	0.014	20.42	0.110		
5220.0		11.51	0.014	20.33	0.108	11.44	0.014	20.22	0.105		
5240.0		11.39	0.014	20.10	0.102	11.32	0.014	19.99	0.100		
5260.0		11.29	0.013	20.18	0.104	11.19	0.013	20.05	0.101	< 24	< 24
5280.0		11.21	0.013	20.09	0.102	11.11	0.013	19.96	0.099		
5300.0		10.05	0.010	19.76	0.095	9.95	0.010	19.63	0.092		
5320.0		9.85	0.010	19.62	0.092	9.79	0.010	19.49	0.089		
5500.0		10.40	0.011	19.02	0.080	10.37	0.011	18.91	0.078	< 24	< 24
5520.0		10.31	0.011	18.83	0.076	10.28	0.011	18.72	0.074		
5540.0		10.36	0.011	18.89	0.077	10.33	0.011	18.78	0.076		
5560.0		10.26	0.011	18.81	0.076	10.23	0.011	18.70	0.074		
5580.0		9.94	0.010	18.41	0.069	9.91	0.010	18.30	0.068		
5600.0		10.36	0.011	18.77	0.075	10.33	0.011	18.66	0.073		N/A
5620.0		10.27	0.011	18.66	0.073	10.24	0.011	18.55	0.072		
5640.0		10.30	0.011	18.72	0.074	10.27	0.011	18.61	0.073		
5660.0		10.17	0.010	18.50	0.071	10.14	0.010	18.39	0.069		< 24
5680.0		9.90	0.010	18.12	0.065	9.87	0.010	18.01	0.063		
5700.0		9.89	0.010	18.09	0.064	9.82	0.010	17.98	0.063		
5745.0		9.57	0.009	17.56	0.057	9.55	0.009	17.48	0.056	< 30	< 30
5765.0		9.78	0.010	17.75	0.060	9.76	0.009	17.67	0.058		
5785.0		9.82	0.010	17.89	0.062	9.80	0.010	17.81	0.060		
5805.0		10.01	0.010	18.09	0.064	9.99	0.010	18.01	0.063		
5825.0		10.25	0.011	18.25	0.067	10.23	0.011	18.17	0.066		

Model Number	Omni S2									
Test Item	Maximum Conducted Output Power									
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power		Peak Power		Average Power		Peak Power			
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5190.0	6.5M	11.10	0.013	20.17	0.104	10.99	0.013	20.05	0.101	< 24	N/A
5230.0		11.47	0.014	20.43	0.110	11.36	0.014	20.31	0.107		
5270.0		11.39	0.014	19.91	0.098	11.26	0.013	19.77	0.095	< 24	< 24
5310.0		10.13	0.010	18.94	0.078	10.00	0.010	18.80	0.076		
5510.0		11.11	0.013	19.75	0.094	10.98	0.013	19.61	0.091	< 24	< 24
5550.0		11.41	0.014	19.82	0.096	11.28	0.013	19.68	0.093		
5590.0		10.87	0.012	19.40	0.087	10.74	0.012	19.26	0.084		
5630.0		11.05	0.013	19.52	0.090	10.92	0.012	19.38	0.087		N/A
5670.0		10.84	0.012	19.40	0.087	10.71	0.012	19.26	0.084		< 24
5755.0		10.14	0.010	18.14	0.065	10.01	0.010	17.99	0.063	< 30	< 30
5795.0		10.35	0.011	18.74	0.075	10.22	0.011	18.59	0.072		
5190.0	65M	10.99	0.013	20.04	0.101	10.91	0.012	19.95	0.099	< 24	N/A
5230.0		11.36	0.014	20.30	0.107	11.28	0.013	20.21	0.105		
5270.0		11.26	0.013	19.77	0.095	11.15	0.013	19.64	0.092	< 24	< 24
5310.0		10.00	0.010	18.80	0.076	9.89	0.010	18.67	0.074		
5510.0		11.00	0.013	19.62	0.092	10.89	0.012	19.49	0.089	< 24	< 24
5550.0		11.30	0.013	19.69	0.093	11.19	0.013	19.56	0.090		
5590.0		10.76	0.012	19.27	0.085	10.65	0.012	19.14	0.082		
5630.0		10.94	0.012	19.39	0.087	10.83	0.012	19.26	0.084		N/A
5670.0		10.73	0.012	19.27	0.085	10.62	0.012	19.14	0.082		< 24
5755.0		10.02	0.010	18.00	0.063	9.93	0.010	17.88	0.061	< 30	< 30
5795.0		10.23	0.011	18.60	0.072	10.14	0.010	18.48	0.070		

Model Number	Omni S2			
Test Item	EIRP			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	6M	13.35	3.92	17.27	0.053	13.20	3.92	17.12	0.052	< 36	< 23
5200.0		13.61	3.92	21.74	0.149	13.59	3.92	21.74	0.149		
5220.0		13.20	3.92	21.5	0.141	13.05	3.92	21.5	0.141		
5240.0		13.34	3.92	21.54	0.143	13.19	3.92	21.54	0.143		
5260.0		13.60	3.92	21.68	0.147	13.46	3.92	21.68	0.147	< 30	< 30
5280.0		13.52	3.92	21.27	0.134	13.38	3.92	21.27	0.134		
5300.0		13.08	3.92	20.99	0.126	12.94	3.92	20.99	0.126		
5320.0		12.25	3.92	20.77	0.119	12.11	3.92	20.77	0.119		
5500.0		12.10	3.92	21.01	0.126	12.02	3.92	21.01	0.126	< 30	< 30
5520.0		12.05	3.92	20.45	0.111	11.97	3.92	20.45	0.111		
5540.0		12.14	3.92	20.59	0.115	12.06	3.92	20.59	0.115		
5560.0		12.09	3.92	20.3	0.107	12.01	3.92	20.3	0.107		
5580.0		12.04	3.92	20.16	0.104	11.96	3.92	20.16	0.104		
5600.0		11.84	3.92	20.47	0.111	11.76	3.92	20.47	0.111		N/A
5620.0		11.83	3.92	20.33	0.108	11.75	3.92	20.33	0.108		
5640.0		11.81	3.92	20.26	0.106	11.73	3.92	20.26	0.106		
5660.0		11.85	3.92	20.56	0.114	11.77	3.92	20.56	0.114		< 30
5680.0		11.78	3.92	20.23	0.105	11.70	3.92	20.23	0.105		
5700.0		12.22	3.92	20.12	0.103	12.14	3.92	20.12	0.103		
5745.0		11.81	3.92	19.76	0.095	11.67	3.92	19.76	0.095	< 36	< 36
5765.0		12.00	3.92	19.82	0.096	11.86	3.92	19.82	0.096		
5785.0		12.49	3.92	19.93	0.098	12.35	3.92	19.93	0.098		
5805.0		11.76	3.92	19.73	0.094	11.62	3.92	19.73	0.094		
5825.0		11.66	3.92	19.78	0.095	11.52	3.92	19.78	0.095		

Model Number	Omni S2			
Test Item	EIRP			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	54M	13.23	3.92	17.15	0.052	13.09	3.92	17.01	0.050	< 36	< 23
5200.0		13.58	3.92	21.74	0.149	13.53	3.92	21.74	0.149		
5220.0		13.08	3.92	21.50	0.141	12.94	3.92	21.50	0.141		
5240.0		13.22	3.92	21.54	0.143	13.08	3.92	21.54	0.143		
5260.0		13.49	3.92	21.68	0.147	13.35	3.92	21.68	0.147	< 30	< 30
5280.0		13.41	3.92	21.27	0.134	13.27	3.92	21.27	0.134		
5300.0		12.97	3.92	20.99	0.126	12.83	3.92	20.99	0.126		
5320.0		12.14	3.92	20.77	0.119	12.00	3.92	20.77	0.119		
5500.0		11.97	3.92	21.01	0.126	11.91	3.92	21.01	0.126	< 30	< 30
5520.0		11.92	3.92	20.45	0.111	11.86	3.92	20.45	0.111		
5540.0		12.01	3.92	20.59	0.115	11.95	3.92	20.59	0.115		
5560.0		12.01	3.92	20.30	0.107	11.90	3.92	20.30	0.107		
5580.0		11.96	3.92	20.16	0.104	11.85	3.92	20.16	0.104		
5600.0		11.76	3.92	20.47	0.111	11.65	3.92	20.47	0.111		N/A
5620.0		11.75	3.92	20.33	0.108	11.64	3.92	20.33	0.108		
5640.0		11.73	3.92	20.26	0.106	11.72	3.92	20.26	0.106		
5660.0		11.77	3.92	20.56	0.114	11.66	3.92	20.56	0.114		< 30
5680.0		11.70	3.92	20.23	0.105	11.62	3.92	20.23	0.105		
5700.0		12.09	3.92	20.12	0.103	12.03	3.92	20.12	0.103		
5745.0		11.70	3.92	19.76	0.095	11.54	3.92	19.76	0.095	< 36	< 36
5765.0		11.89	3.92	19.82	0.096	11.73	3.92	19.82	0.096		
5785.0		12.38	3.92	19.93	0.098	12.22	3.92	19.93	0.098		
5805.0		11.65	3.92	19.73	0.094	11.59	3.92	19.73	0.094		
5825.0		11.55	3.92	19.78	0.095	11.51	3.92	19.78	0.095		

Model Number	Omni S2			
Test Item	EIRP			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	6.5M	11.28	3.92	15.20	0.033	11.21	3.92	15.13	0.033	< 36	< 23
5200.0		11.76	3.92	21.74	0.149	11.69	3.92	21.74	0.149		
5220.0		11.61	3.92	21.50	0.141	11.54	3.92	21.50	0.141		
5240.0		11.49	3.92	21.54	0.143	11.42	3.92	21.54	0.143		
5260.0		11.42	3.92	21.68	0.147	11.32	3.92	21.68	0.147	< 30	< 30
5280.0		11.34	3.92	21.27	0.134	11.24	3.92	21.27	0.134		
5300.0		10.18	3.92	20.99	0.126	10.08	3.92	20.99	0.126		
5320.0		9.83	3.92	20.77	0.119	9.79	3.92	20.77	0.119		
5500.0		10.52	3.92	21.01	0.126	10.43	3.92	21.01	0.126	< 30	< 30
5520.0		10.43	3.92	20.45	0.111	10.34	3.92	20.45	0.111		
5540.0		10.48	3.92	20.59	0.115	10.39	3.92	20.59	0.115		
5560.0		10.38	3.92	20.30	0.107	10.29	3.92	20.30	0.107		
5580.0		10.06	3.92	20.16	0.104	9.97	3.92	20.16	0.104		
5600.0		10.48	3.92	20.47	0.111	10.39	3.92	20.47	0.111		N/A
5620.0		10.39	3.92	20.33	0.108	10.30	3.92	20.33	0.108		
5640.0		10.42	3.92	20.26	0.106	10.33	3.92	20.26	0.106		
5660.0		10.29	3.92	20.56	0.114	10.20	3.92	20.56	0.114		< 30
5680.0		10.02	3.92	20.23	0.105	9.93	3.92	20.23	0.105		
5700.0		9.91	3.92	20.12	0.103	9.86	3.92	20.12	0.103		
5745.0		9.67	3.92	19.76	0.095	9.61	3.92	19.76	0.095	< 36	< 36
5765.0		9.88	3.92	19.82	0.096	9.82	3.92	19.82	0.096		
5785.0		9.92	3.92	19.93	0.098	9.86	3.92	19.93	0.098		
5805.0		10.11	3.92	19.73	0.094	10.05	3.92	19.73	0.094		
5825.0		10.35	3.92	19.78	0.095	10.29	3.92	19.78	0.095		

Model Number	Omni S2			
Test Item	EIRP			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	65M	11.18	3.92	15.10	0.032	11.11	3.92	15.03	0.032	< 36	< 23
5200.0		11.66	3.92	21.74	0.149	11.59	3.92	21.74	0.149		
5220.0		11.51	3.92	21.50	0.141	11.44	3.92	21.50	0.141		
5240.0		11.39	3.92	21.54	0.143	11.32	3.92	21.54	0.143		
5260.0		11.29	3.92	21.68	0.147	11.19	3.92	21.68	0.147	< 30	< 30
5280.0		11.21	3.92	21.27	0.134	11.11	3.92	21.27	0.134		
5300.0		10.05	3.92	20.99	0.126	9.95	3.92	20.99	0.126		
5320.0		9.85	3.92	20.77	0.119	9.79	3.92	20.77	0.119		
5500.0		10.40	3.92	21.01	0.126	10.37	3.92	21.01	0.126	< 30	< 30
5520.0		10.31	3.92	20.45	0.111	10.28	3.92	20.45	0.111		
5540.0		10.36	3.92	20.59	0.115	10.33	3.92	20.59	0.115		
5560.0		10.26	3.92	20.30	0.107	10.23	3.92	20.30	0.107		
5580.0		9.94	3.92	20.16	0.104	9.91	3.92	20.16	0.104		
5600.0		10.36	3.92	20.47	0.111	10.33	3.92	20.47	0.111		N/A
5620.0		10.27	3.92	20.33	0.108	10.24	3.92	20.33	0.108		
5640.0		10.30	3.92	20.26	0.106	10.27	3.92	20.26	0.106		
5660.0		10.17	3.92	20.56	0.114	10.14	3.92	20.56	0.114		< 30
5680.0		9.90	3.92	20.23	0.105	9.87	3.92	20.23	0.105		
5700.0		9.89	3.92	20.12	0.103	9.82	3.92	20.12	0.103		
5745.0		9.57	3.92	19.76	0.095	9.55	3.92	19.76	0.095	< 36	< 36
5765.0		9.78	3.92	19.82	0.096	9.76	3.92	19.82	0.096		
5785.0		9.82	3.92	19.93	0.098	9.80	3.92	19.93	0.098		
5805.0		10.01	3.92	19.73	0.094	9.99	3.92	19.73	0.094		
5825.0		10.25	3.92	19.78	0.095	10.23	3.92	19.78	0.095		

Model Number	Omni S2									
Test Item	EIRP									
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
5190.0	6.5M	11.10	3.92	15.02	0.032	10.99	3.92	14.91	0.031	< 36	< 23
5230.0		11.47	3.92	21.74	0.149	11.36	3.92	21.74	0.149		
5270.0		11.39	3.92	21.50	0.141	11.26	3.92	21.50	0.141	< 30	< 30
5310.0		10.13	3.92	21.54	0.143	10.00	3.92	21.54	0.143		
5510.0		11.11	3.92	21.68	0.147	10.98	3.92	21.68	0.147	< 30	< 30
5550.0		11.41	3.92	21.27	0.134	11.28	3.92	21.27	0.134		
5590.0		10.87	3.92	20.99	0.126	10.74	3.92	20.99	0.126		
5630.0		11.05	3.92	20.77	0.119	10.92	3.92	20.77	0.119		N/A
5670.0		10.84	3.92	21.01	0.126	10.71	3.92	21.01	0.126		< 30
5755.0		10.14	3.92	20.45	0.111	10.01	3.92	20.45	0.111	< 36	< 36
5795.0		10.35	3.92	20.59	0.115	10.22	3.92	20.59	0.115		
5190.0	65M	10.99	3.92	20.30	0.107	10.91	3.92	20.30	0.107	< 36	< 23
5230.0		11.36	3.92	20.16	0.104	11.28	3.92	20.16	0.104		
5270.0		11.26	3.92	20.47	0.111	11.15	3.92	20.47	0.111	< 30	< 30
5310.0		10.00	3.92	20.33	0.108	9.89	3.92	20.33	0.108		
5510.0		11.00	3.92	20.26	0.106	10.89	3.92	20.26	0.106	< 30	< 30
5550.0		11.30	3.92	20.56	0.114	11.19	3.92	20.56	0.114		
5590.0		10.76	3.92	20.23	0.105	10.65	3.92	20.23	0.105		
5630.0		10.94	3.92	20.12	0.103	10.83	3.92	20.12	0.103		N/A
5670.0		10.73	3.92	19.76	0.095	10.62	3.92	19.76	0.095		< 30
5755.0		10.02	3.92	19.82	0.096	9.93	3.92	19.82	0.096	< 36	< 36
5795.0		10.23	3.92	19.93	0.098	10.14	3.92	19.93	0.098		

Model Number	Omni S2 Rechargeable			
Test Item	EIRP			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	6M	13.35	2.11	15.46	0.035	13.20	3.92	17.12	0.052	< 36	< 23
5200.0		13.61	2.11	21.74	0.149	13.59	3.92	21.74	0.149		
5220.0		13.20	2.11	21.50	0.141	13.05	3.92	21.5	0.141		
5240.0		13.34	2.11	21.54	0.143	13.19	3.92	21.54	0.143		
5260.0		13.60	2.11	21.68	0.147	13.46	3.92	21.68	0.147	< 30	< 30
5280.0		13.52	2.11	21.27	0.134	13.38	3.92	21.27	0.134		
5300.0		13.08	2.11	20.99	0.126	12.94	3.92	20.99	0.126		
5320.0		12.25	2.11	20.77	0.119	12.11	3.92	20.77	0.119		
5500.0		12.10	2.11	21.01	0.126	12.02	3.92	21.01	0.126	< 30	< 30
5520.0		12.05	2.11	20.45	0.111	11.97	3.92	20.45	0.111		
5540.0		12.14	2.11	20.59	0.115	12.06	3.92	20.59	0.115		
5560.0		12.09	2.11	20.30	0.107	12.01	3.92	20.3	0.107		
5580.0		12.04	2.11	20.16	0.104	11.96	3.92	20.16	0.104		
5600.0		11.84	2.11	20.47	0.111	11.76	3.92	20.47	0.111		N/A
5620.0		11.83	2.11	20.33	0.108	11.75	3.92	20.33	0.108		
5640.0		11.81	2.11	20.26	0.106	11.73	3.92	20.26	0.106		
5660.0		11.85	2.11	20.56	0.114	11.77	3.92	20.56	0.114		< 30
5680.0		11.78	2.11	20.23	0.105	11.70	3.92	20.23	0.105		
5700.0		12.22	2.11	20.12	0.103	12.14	3.92	20.12	0.103		
5745.0		11.81	2.11	19.76	0.095	11.67	3.92	19.76	0.095	< 36	< 36
5765.0		12.00	2.11	19.82	0.096	11.86	3.92	19.82	0.096		
5785.0		12.49	2.11	19.93	0.098	12.35	3.92	19.93	0.098		
5805.0		11.76	2.11	19.73	0.094	11.62	3.92	19.73	0.094		
5825.0		11.66	2.11	19.78	0.095	11.52	3.92	19.78	0.095		

Model Number	Omni S2 Rechargeable			
Test Item	EIRP			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	54M	13.23	2.11	15.34	0.034	13.09	3.92	17.01	0.050	< 36	< 23
5200.0		13.58	2.11	21.74	0.149	13.53	3.92	21.74	0.149		
5220.0		13.08	2.11	21.50	0.141	12.94	3.92	21.50	0.141		
5240.0		13.22	2.11	21.54	0.143	13.08	3.92	21.54	0.143		
5260.0		13.49	2.11	21.68	0.147	13.35	3.92	21.68	0.147	< 30	< 30
5280.0		13.41	2.11	21.27	0.134	13.27	3.92	21.27	0.134		
5300.0		12.97	2.11	20.99	0.126	12.83	3.92	20.99	0.126		
5320.0		12.14	2.11	20.77	0.119	12.00	3.92	20.77	0.119		
5500.0		11.97	2.11	21.01	0.126	11.91	3.92	21.01	0.126	< 30	< 30
5520.0		11.92	2.11	20.45	0.111	11.86	3.92	20.45	0.111		
5540.0		12.01	2.11	20.59	0.115	11.95	3.92	20.59	0.115		
5560.0		12.01	2.11	20.30	0.107	11.90	3.92	20.30	0.107		
5580.0		11.96	2.11	20.16	0.104	11.85	3.92	20.16	0.104		
5600.0		11.76	2.11	20.47	0.111	11.65	3.92	20.47	0.111		N/A
5620.0		11.75	2.11	20.33	0.108	11.64	3.92	20.33	0.108		
5640.0		11.73	2.11	20.26	0.106	11.72	3.92	20.26	0.106		
5660.0		11.77	2.11	20.56	0.114	11.66	3.92	20.56	0.114		< 30
5680.0		11.70	2.11	20.23	0.105	11.62	3.92	20.23	0.105		
5700.0		12.09	2.11	20.12	0.103	12.03	3.92	20.12	0.103		
5745.0		11.70	2.11	19.76	0.095	11.54	3.92	19.76	0.095	< 36	< 36
5765.0		11.89	2.11	19.82	0.096	11.73	3.92	19.82	0.096		
5785.0		12.38	2.11	19.93	0.098	12.22	3.92	19.93	0.098		
5805.0		11.65	2.11	19.73	0.094	11.59	3.92	19.73	0.094		
5825.0		11.55	2.11	19.78	0.095	11.51	3.92	19.78	0.095		

Model Number	Omni S2 Rechargeable		
Test Item	EIRP		
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode		
Date of Test	06/17/2014	Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	6.5M	11.28	2.11	13.39	0.022	11.21	3.92	15.13	0.033	< 36	< 23
5200.0		11.76	2.11	21.74	0.149	11.69	3.92	21.74	0.149		
5220.0		11.61	2.11	21.50	0.141	11.54	3.92	21.50	0.141		
5240.0		11.49	2.11	21.54	0.143	11.42	3.92	21.54	0.143		
5260.0		11.42	2.11	21.68	0.147	11.32	3.92	21.68	0.147	< 30	< 30
5280.0		11.34	2.11	21.27	0.134	11.24	3.92	21.27	0.134		
5300.0		10.18	2.11	20.99	0.126	10.08	3.92	20.99	0.126		
5320.0		9.83	2.11	20.77	0.119	9.79	3.92	20.77	0.119		
5500.0		10.52	2.11	21.01	0.126	10.43	3.92	21.01	0.126	< 30	< 30
5520.0		10.43	2.11	20.45	0.111	10.34	3.92	20.45	0.111		
5540.0		10.48	2.11	20.59	0.115	10.39	3.92	20.59	0.115		
5560.0		10.38	2.11	20.30	0.107	10.29	3.92	20.30	0.107		
5580.0		10.06	2.11	20.16	0.104	9.97	3.92	20.16	0.104		
5600.0		10.48	2.11	20.47	0.111	10.39	3.92	20.47	0.111		N/A
5620.0		10.39	2.11	20.33	0.108	10.30	3.92	20.33	0.108		
5640.0		10.42	2.11	20.26	0.106	10.33	3.92	20.26	0.106		
5660.0		10.29	2.11	20.56	0.114	10.20	3.92	20.56	0.114		< 30
5680.0		10.02	2.11	20.23	0.105	9.93	3.92	20.23	0.105		
5700.0		9.91	2.11	20.12	0.103	9.86	3.92	20.12	0.103		
5745.0		9.67	2.11	19.76	0.095	9.61	3.92	19.76	0.095	< 36	< 36
5765.0		9.88	2.11	19.82	0.096	9.82	3.92	19.82	0.096		
5785.0		9.92	2.11	19.93	0.098	9.86	3.92	19.93	0.098		
5805.0		10.11	2.11	19.73	0.094	10.05	3.92	19.73	0.094		
5825.0		10.35	2.11	19.78	0.095	10.29	3.92	19.78	0.095		

Model Number	Omni S2 Rechargeable			
Test Item	EIRP			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	06/17/2014		Test Site	TE02

Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(W)	(dBm)	(dBi)	(dBm)	(W)		
5180.0	65M	11.18	2.11	13.29	0.021	11.11	3.92	15.03	0.032	< 36	< 23
5200.0		11.66	2.11	21.74	0.149	11.59	3.92	21.74	0.149		
5220.0		11.51	2.11	21.50	0.141	11.44	3.92	21.50	0.141		
5240.0		11.39	2.11	21.54	0.143	11.32	3.92	21.54	0.143		
5260.0		11.29	2.11	21.68	0.147	11.19	3.92	21.68	0.147	< 30	< 30
5280.0		11.21	2.11	21.27	0.134	11.11	3.92	21.27	0.134		
5300.0		10.05	2.11	20.99	0.126	9.95	3.92	20.99	0.126		
5320.0		9.85	2.11	20.77	0.119	9.79	3.92	20.77	0.119		
5500.0		10.40	2.11	21.01	0.126	10.37	3.92	21.01	0.126	< 30	< 30
5520.0		10.31	2.11	20.45	0.111	10.28	3.92	20.45	0.111		
5540.0		10.36	2.11	20.59	0.115	10.33	3.92	20.59	0.115		
5560.0		10.26	2.11	20.30	0.107	10.23	3.92	20.30	0.107		
5580.0		9.94	2.11	20.16	0.104	9.91	3.92	20.16	0.104		
5600.0		10.36	2.11	20.47	0.111	10.33	3.92	20.47	0.111		N/A
5620.0		10.27	2.11	20.33	0.108	10.24	3.92	20.33	0.108		
5640.0		10.30	2.11	20.26	0.106	10.27	3.92	20.26	0.106		
5660.0		10.17	2.11	20.56	0.114	10.14	3.92	20.56	0.114		< 30
5680.0		9.90	2.11	20.23	0.105	9.87	3.92	20.23	0.105		
5700.0		9.89	2.11	20.12	0.103	9.82	3.92	20.12	0.103		
5745.0		9.57	2.11	19.76	0.095	9.55	3.92	19.76	0.095	< 36	< 36
5765.0		9.78	2.11	19.82	0.096	9.76	3.92	19.82	0.096		
5785.0		9.82	2.11	19.93	0.098	9.80	3.92	19.93	0.098		
5805.0		10.01	2.11	19.73	0.094	9.99	3.92	19.73	0.094		
5825.0		10.25	2.11	19.78	0.095	10.23	3.92	19.78	0.095		

Model Number	Omni S2 Rechargeable									
Test Item	EIRP									
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode									
Date of Test	06/17/2014				Test Site	TE02				

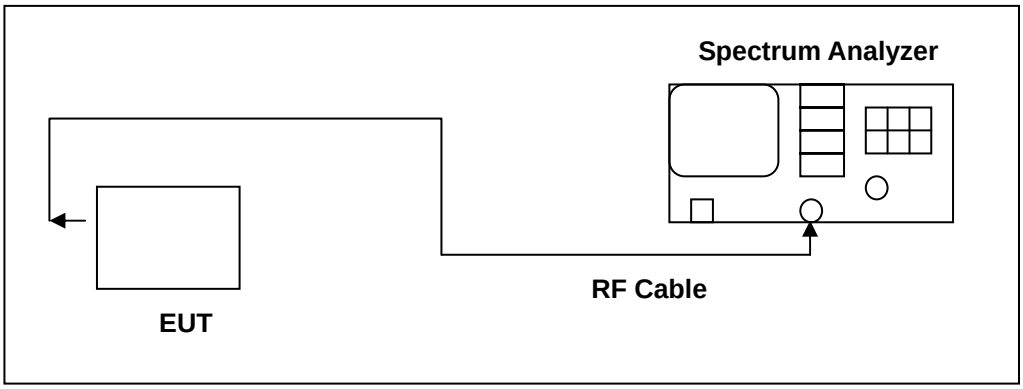
Frequency (MHz)	Data Rate	Antenna 0				Antenna 1				FCC Limit (dBm)	IC Limit (dBm)
		Average Power	Antenna Gain	EIRP		Average Power	Antenna Gain	EIRP			
		(dBm)	(dBi)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)		
5190.0	6.5M	11.10	2.11	13.21	0.021	10.99	3.92	14.91	0.031	< 36	< 23
5230.0		11.47	2.11	21.74	0.149	11.36	3.92	21.74	0.149		
5270.0		11.39	2.11	21.50	0.141	11.26	3.92	21.50	0.141	< 30	< 30
5310.0		10.13	2.11	21.54	0.143	10.00	3.92	21.54	0.143		
5510.0		11.11	2.11	21.68	0.147	10.98	3.92	21.68	0.147	< 30	< 30
5550.0		11.41	2.11	21.27	0.134	11.28	3.92	21.27	0.134		
5590.0		10.87	2.11	20.99	0.126	10.74	3.92	20.99	0.126		
5630.0		11.05	2.11	20.77	0.119	10.92	3.92	20.77	0.119		N/A
5670.0		10.84	2.11	21.01	0.126	10.71	3.92	21.01	0.126		< 30
5755.0		10.14	2.11	20.45	0.111	10.01	3.92	20.45	0.111	< 36	< 36
5795.0		10.35	2.11	20.59	0.115	10.22	3.92	20.59	0.115		
5190.0	65M	10.99	2.11	20.30	0.107	10.91	3.92	20.30	0.107	< 36	< 23
5230.0		11.36	2.11	20.16	0.104	11.28	3.92	20.16	0.104		
5270.0		11.26	2.11	20.47	0.111	11.15	3.92	20.47	0.111	< 30	< 30
5310.0		10.00	2.11	20.33	0.108	9.89	3.92	20.33	0.108		
5510.0		11.00	2.11	20.26	0.106	10.89	3.92	20.26	0.106	< 30	< 30
5550.0		11.30	2.11	20.56	0.114	11.19	3.92	20.56	0.114		
5590.0		10.76	2.11	20.23	0.105	10.65	3.92	20.23	0.105		
5630.0		10.94	2.11	20.12	0.103	10.83	3.92	20.12	0.103		N/A
5670.0		10.73	2.11	19.76	0.095	10.62	3.92	19.76	0.095		< 30
5755.0		10.02	2.11	19.82	0.096	9.93	3.92	19.82	0.096	< 36	< 36
5795.0		10.23	2.11	19.93	0.098	10.14	3.92	19.93	0.098		

7 26dB RF Bandwidth Measurement

7.1. Limit

N/A

7.2. Test Setup



7.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/18/2013	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

7.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

7.5. Test Result

Model Number	Omni S2		
Test Item	26dB RF Bandwidth		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	07/18/2014	Test Site	TE02

Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	34.850	18.0028
5220	35.385	18.0274
5240	34.309	17.7601
5260	33.226	17.9496
5280	35.617	17.8244
5320	24.099	17.4702
5500	21.796	17.4969
5580	21.778	17.5231
5700	25.691	17.6181

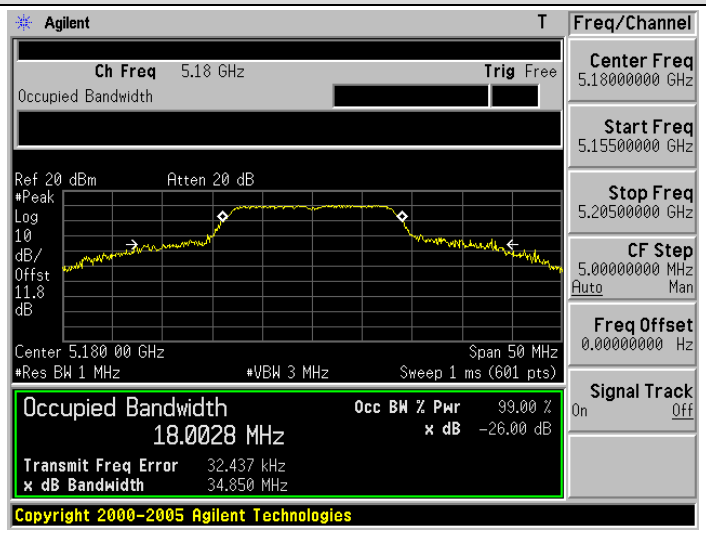
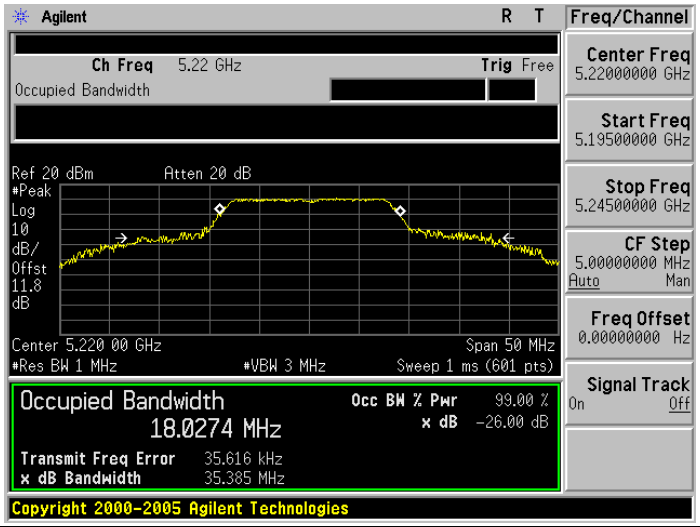
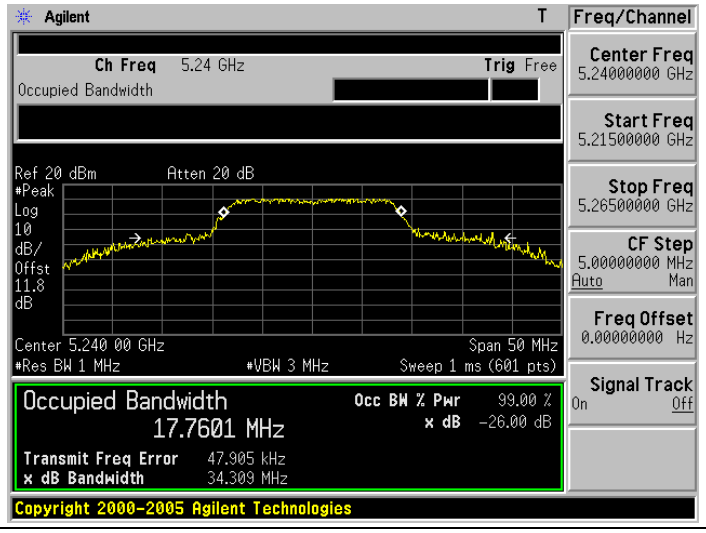
Model Number	Omni S2		
Test Item	26dB RF Bandwidth		
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode		
Date of Test	07/18/2014	Test Site	TE02

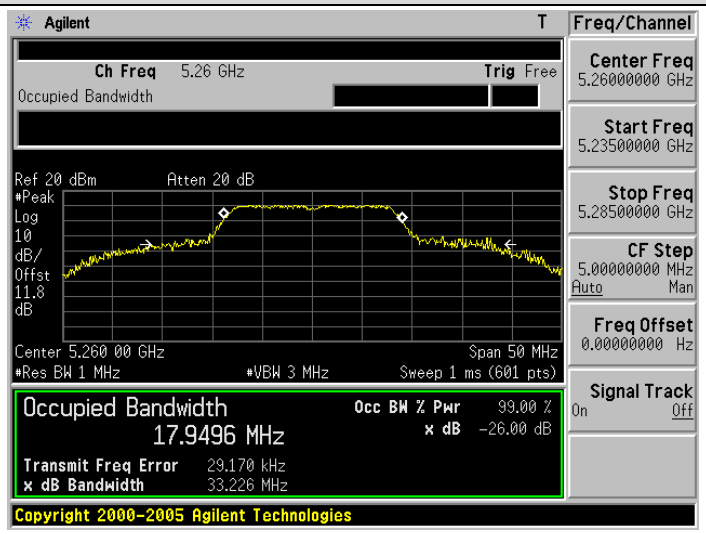
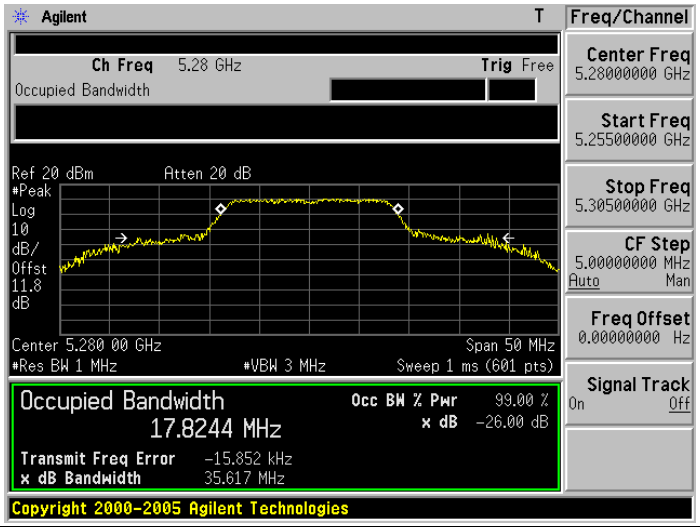
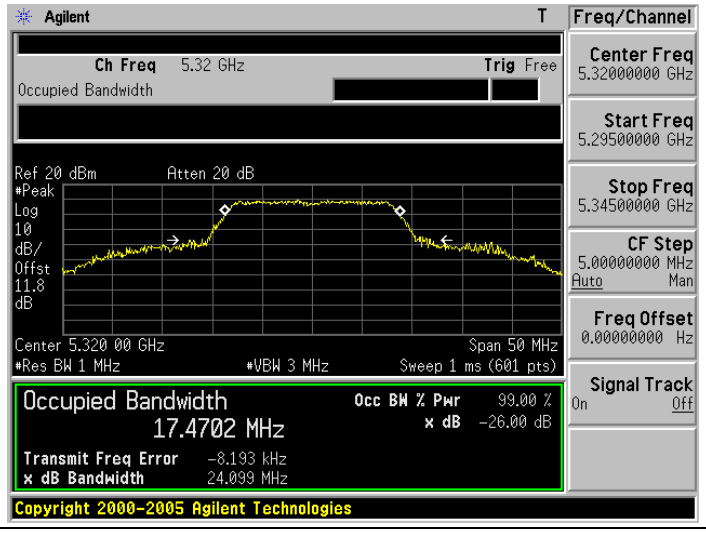
Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	28.797	18.3619
5220	26.893	18.3974
5240	27.602	18.4393
5260	28.434	18.3908
5280	26.316	18.4337
5320	22.749	17.5638
5500	21.208	18.2510
5580	21.125	18.2944
5700	21.211	18.3292

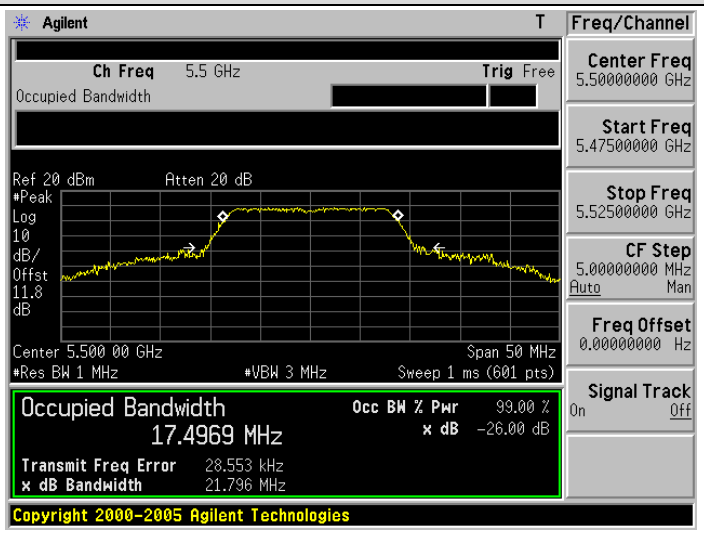
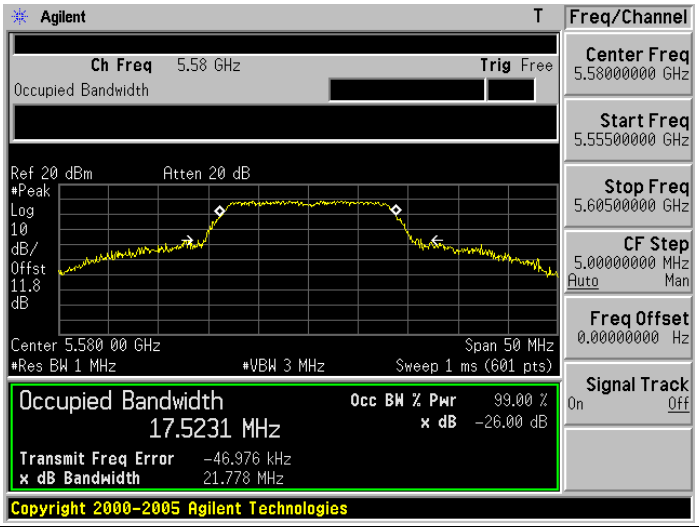
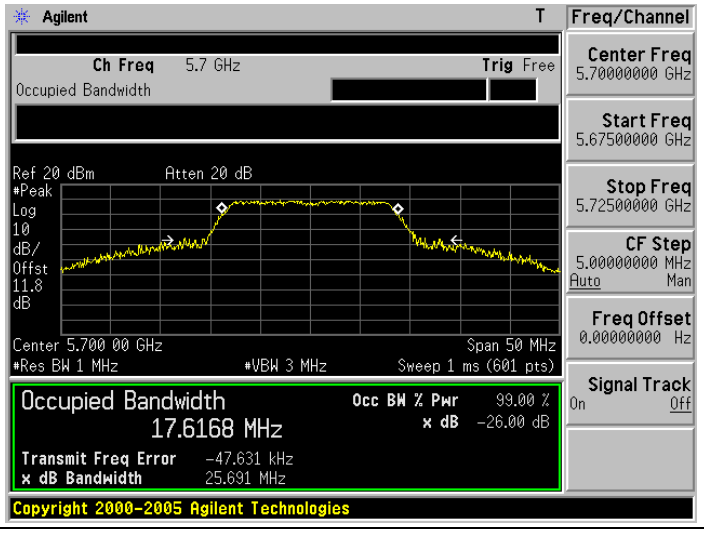
Model Number	Omni S2		
Test Item	26dB RF Bandwidth		
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode		
Date of Test	07/18/2014	Test Site	TE02

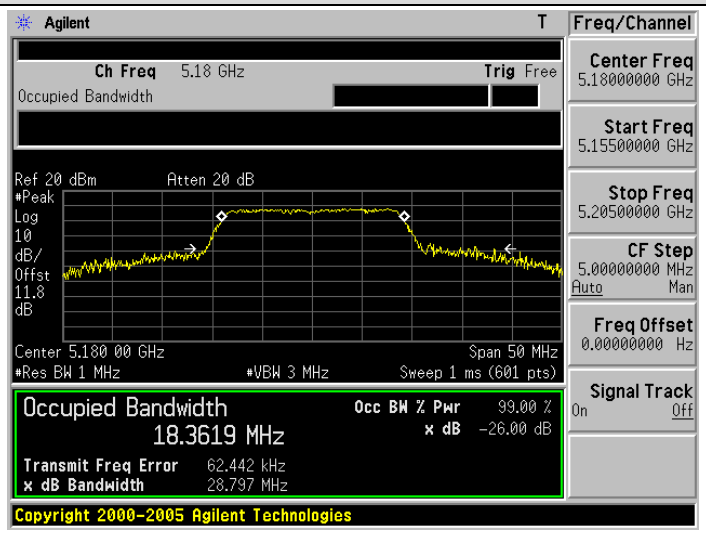
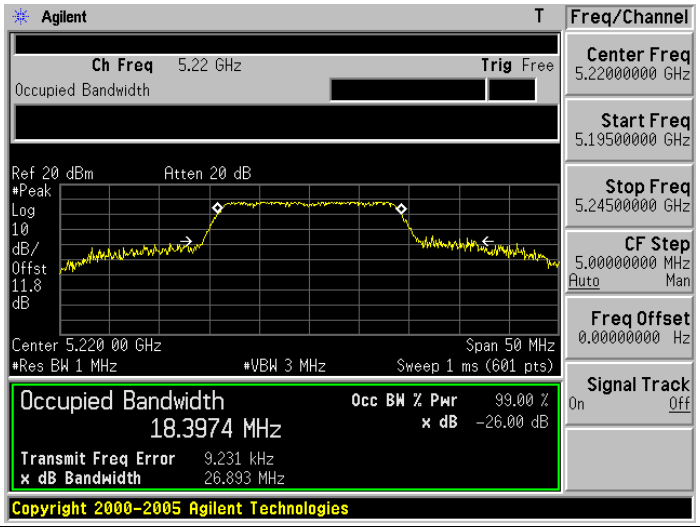
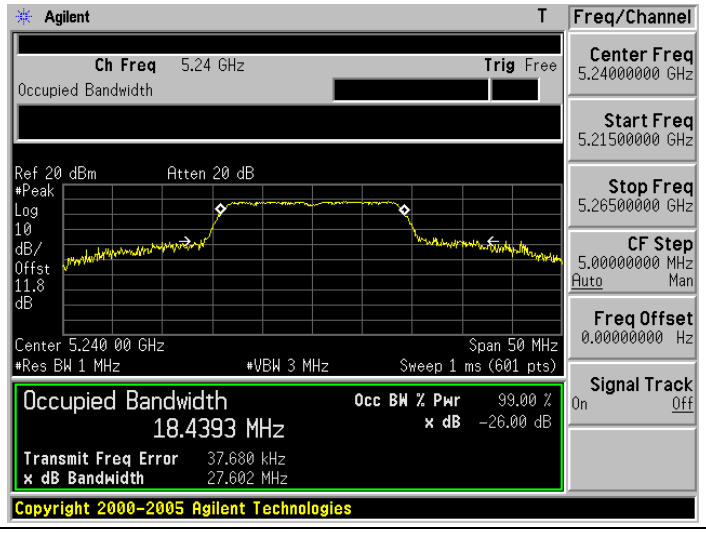
Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	57.141	36.9100
5230	51.491	36.9699
5270	42.113	36.7956
5310	41.581	36.8418
5510	41.521	36.8736
5590	41.553	36.7884
5670	41.732	36.7393

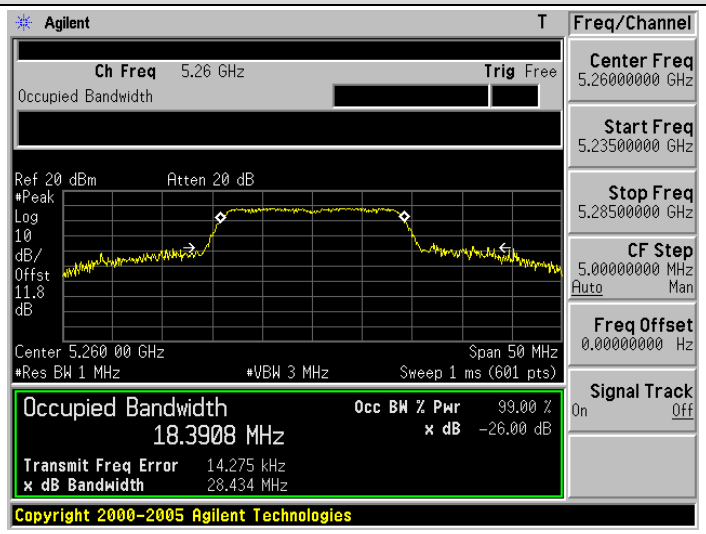
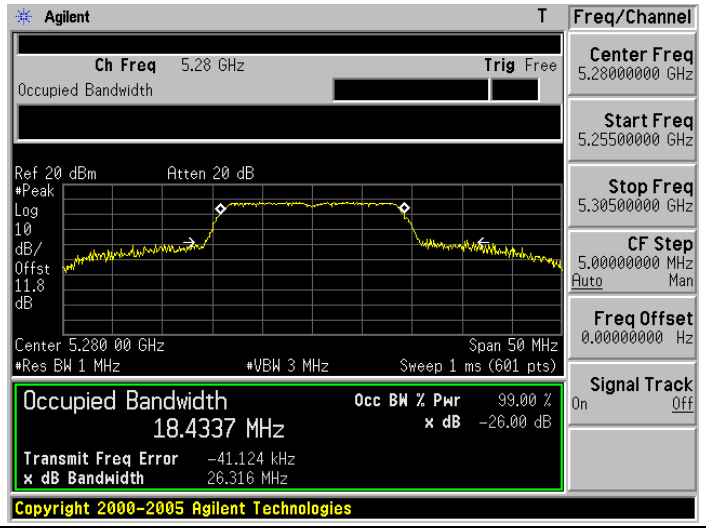
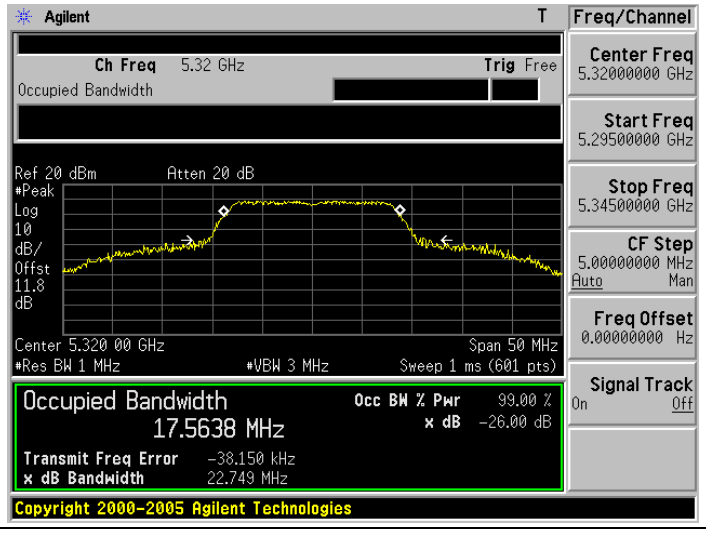
7.6. Test Graphs

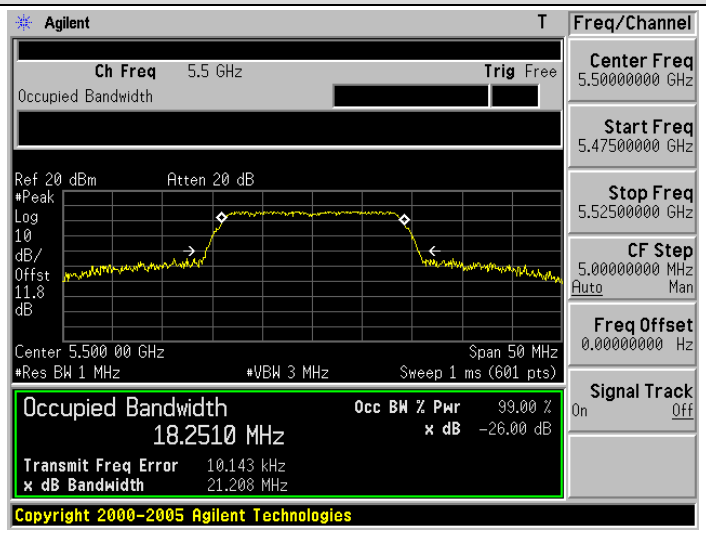
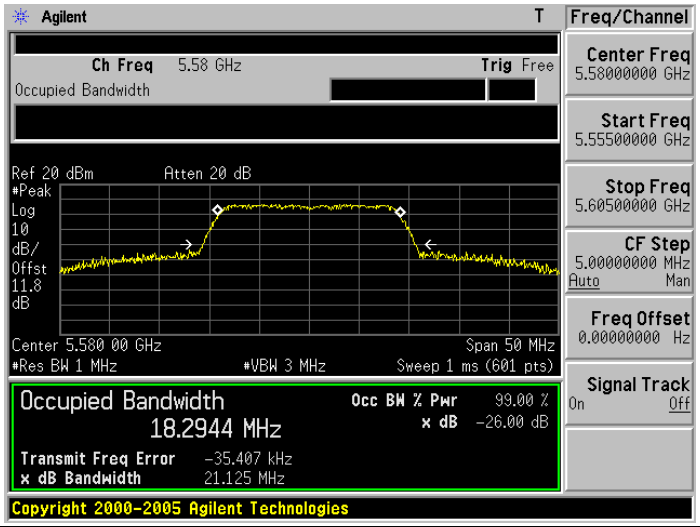
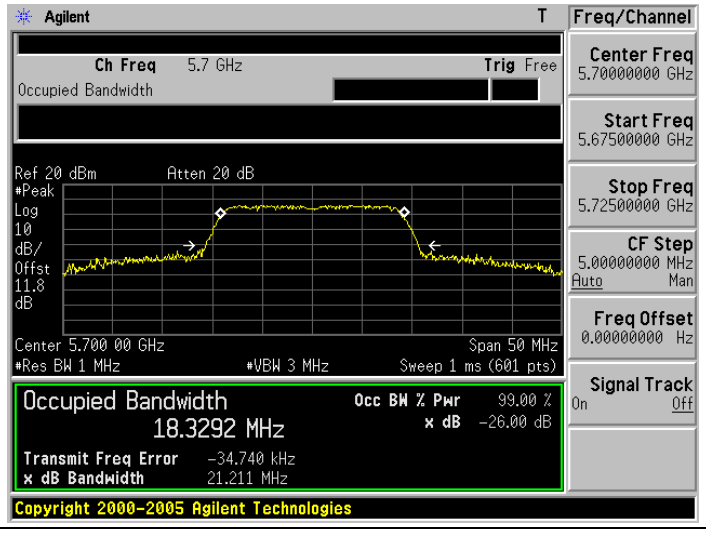
Mode 2: IEEE 802.11a Link Mode	
5180	
5220	
5240	

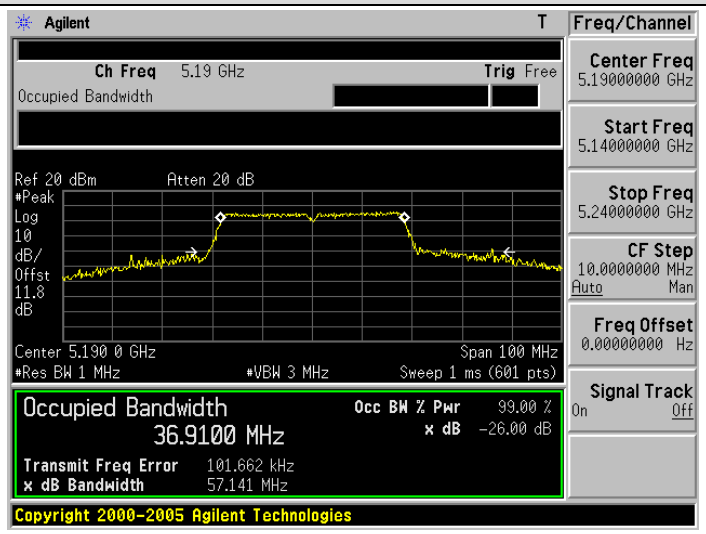
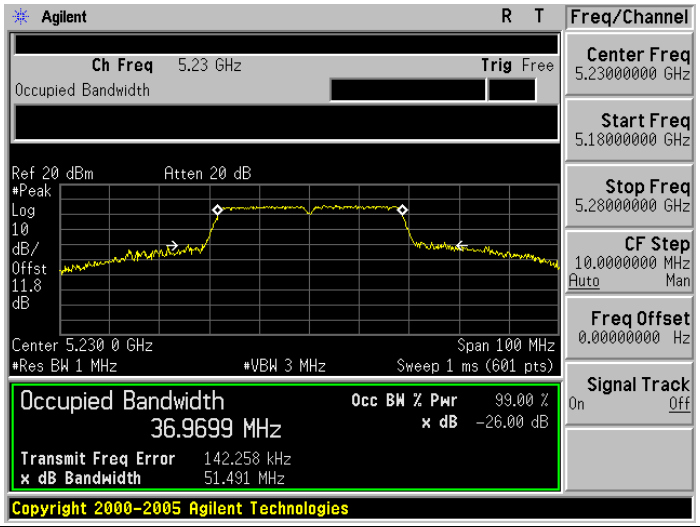
Mode 2: IEEE 802.11a Link Mode	
5260	
5280	
5320	

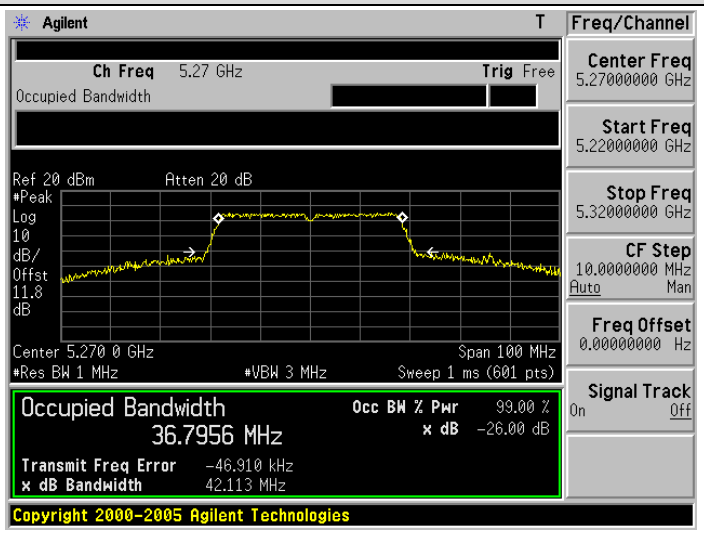
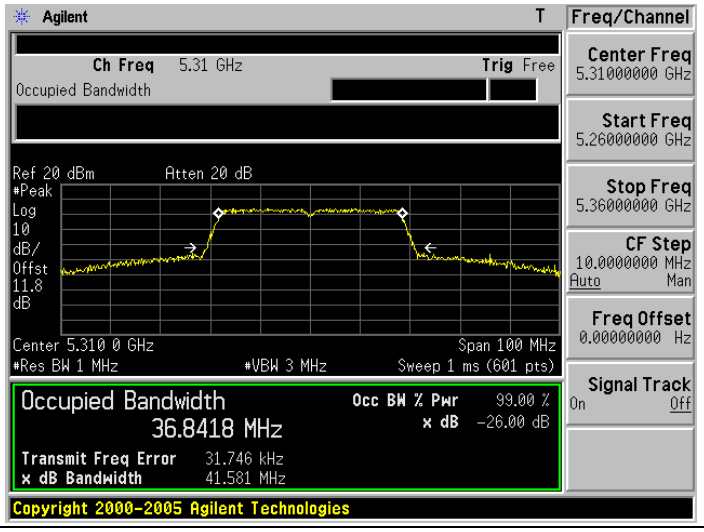
Mode 2: IEEE 802.11a Link Mode	
5500	
5580	
5700	

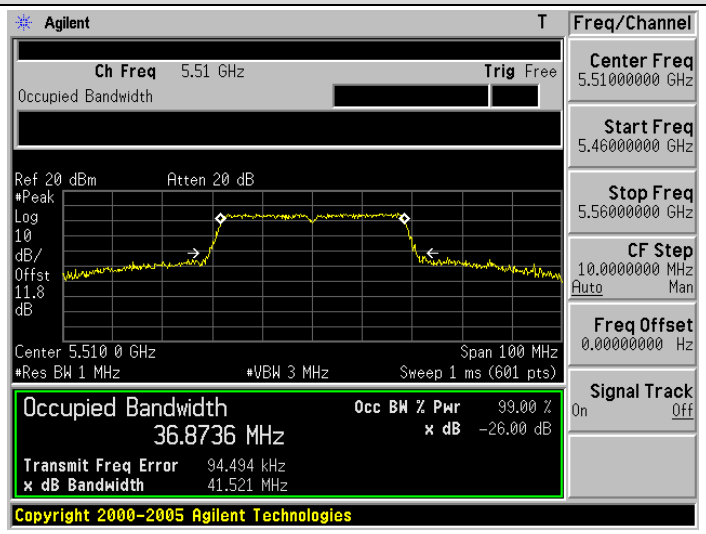
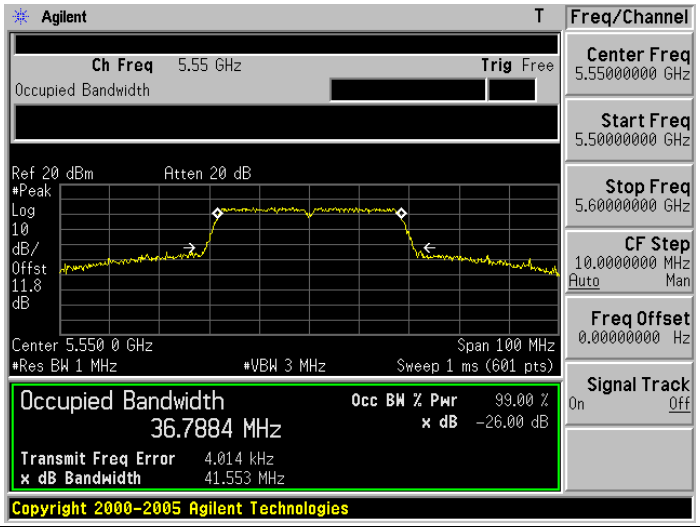
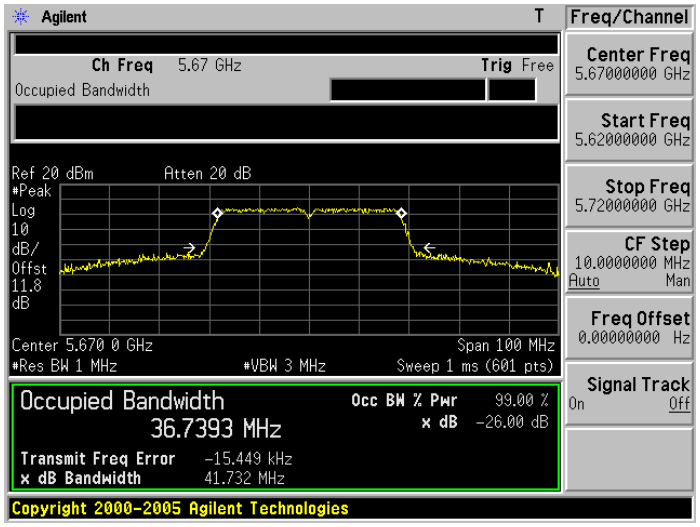
Mode 3: IEEE 802.11n 20MHz Link Mode	
5180	
5220	
5240	

Mode 3: IEEE 802.11n 20MHz Link Mode	
5260	
5280	
5320	

Mode 3: IEEE 802.11n 20MHz Link Mode	
5500	
5580	
5700	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5190	
5230	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5270	
5310	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5510	
5550	
5670	

8 6dB RF Bandwidth & 99 % Occupied Bandwidth Measurement

8.1. Limit

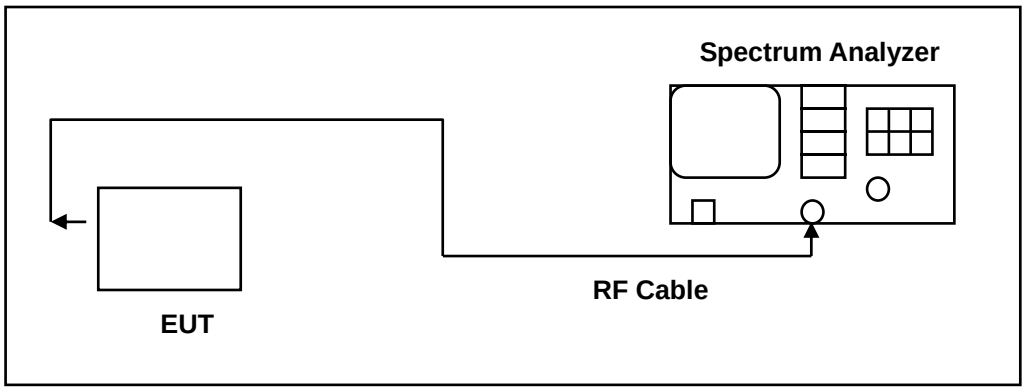
6dB RF Bandwidth

Systems using digital modulation techniques may operate in the 5725~5850MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth

N/A

8.2. Test Setup



8.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/18/2013	(2)
Test Site	ATL	TE05	TE05	N.C.R.	-----

dRemark: (1) Calibration period 1 year. (2) Calibration period 2 years. (3) Calibration period 3 years.

Note: N.C.R. = No Calibration Request.

8.4. Test Procedure

6dB RF Bandwidth

The EUT was setup to ANSI C63.4, 2009; tested to UNII test procedure of KDB789033 D02 for compliance to FCC 47CFR 15.247 requirements.

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

The test was performed at 3 channels.

99 % Occupied Bandwidth

The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

8.5. Test Result

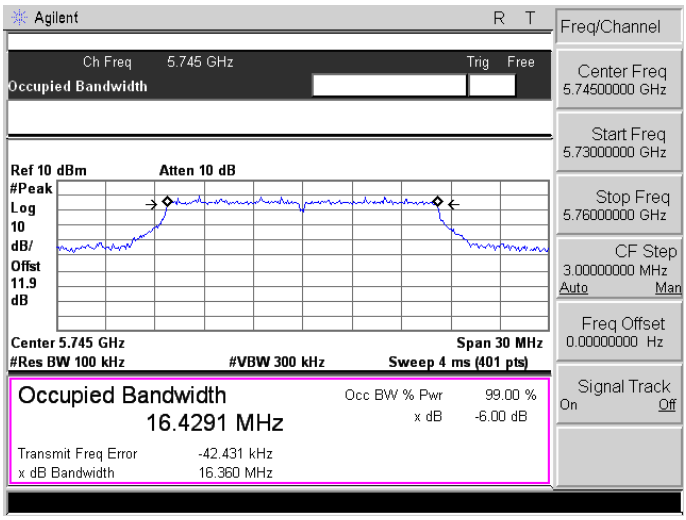
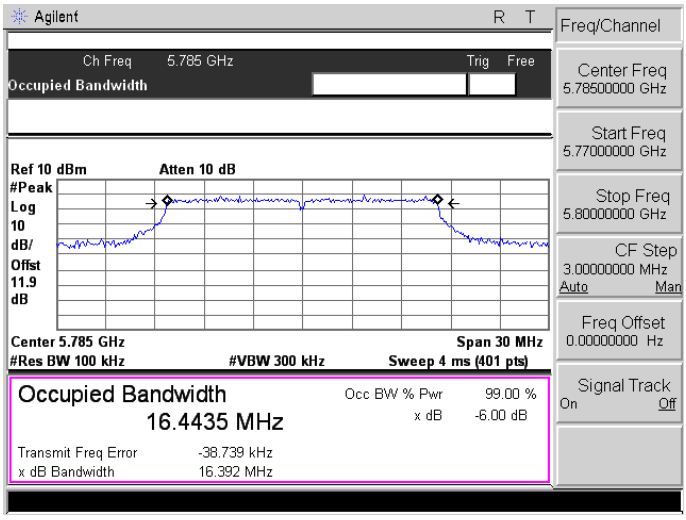
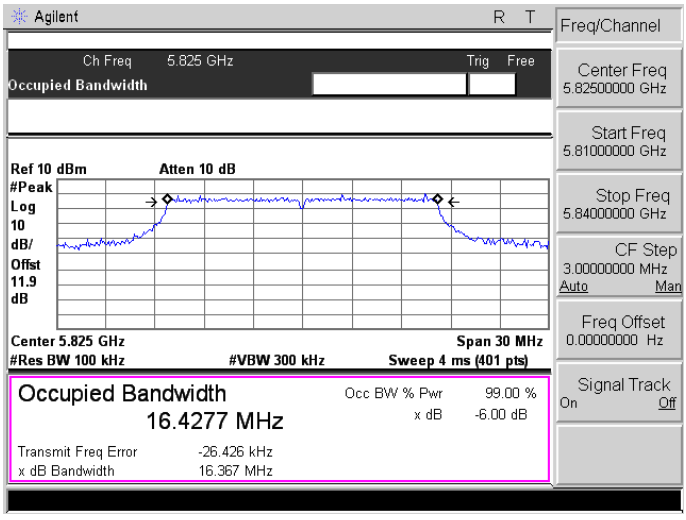
Model Number	Omni S2			
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	07/17/2014		Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth Limit (kHz)	
5745	16.360	16.5369	> 500	
5785	16.392	16.5350	> 500	
5825	16.367	16.5449	> 500	

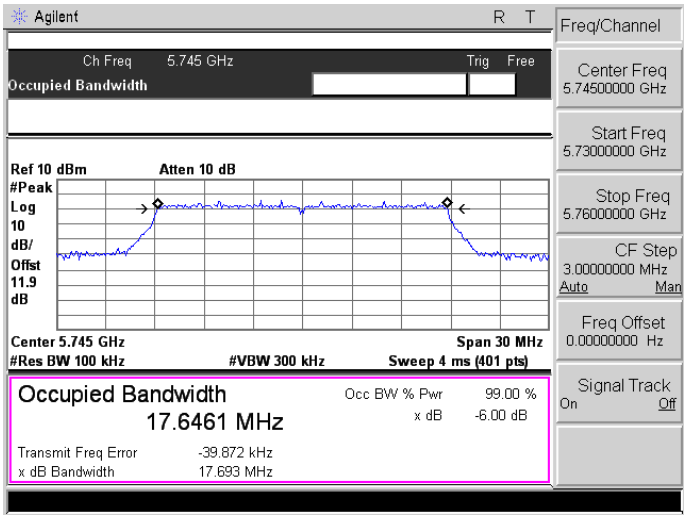
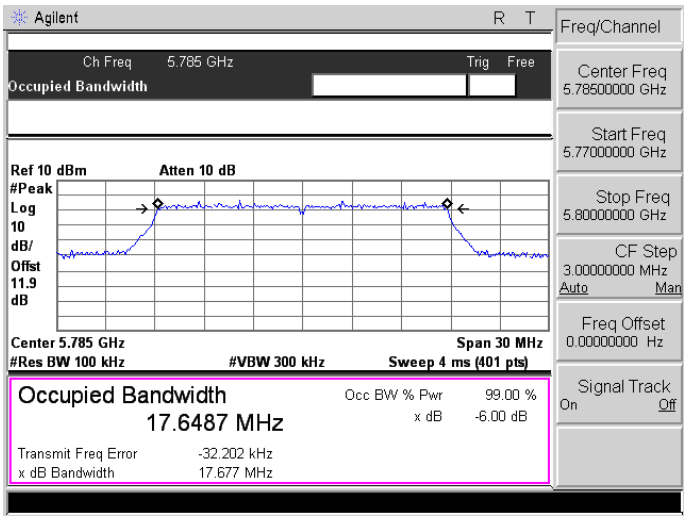
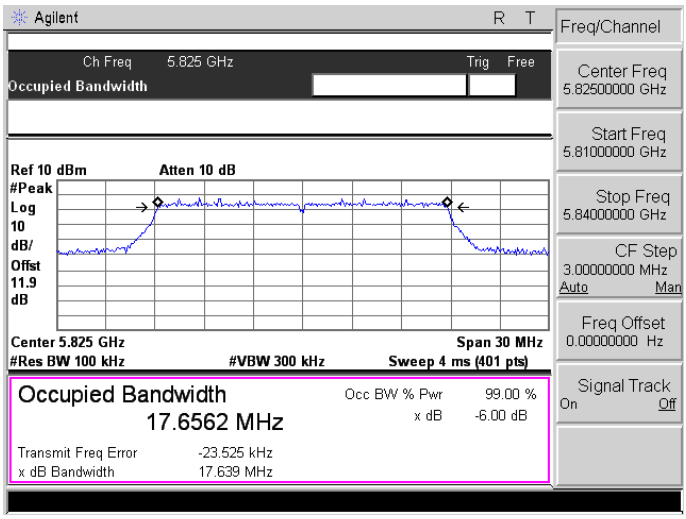
Model Number	Omni S2			
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	07/17/2014		Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth Limit (kHz)	
5745	17.693	17.7066	> 500	
5785	17.677	17.6872	> 500	
5825	17.639	17.6893	> 500	

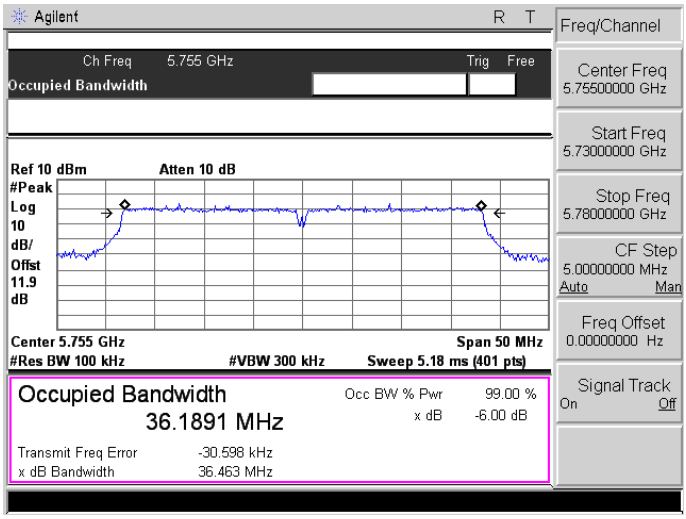
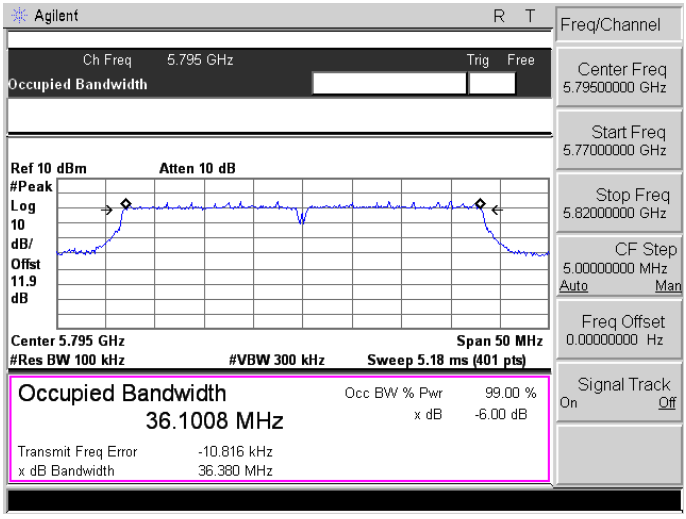
Model Number	Omni S2			
Test Item	6dB RF Bandwidth & 99 % Occupied Bandwidth			
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode			
Date of Test	07/17/2014		Test Site	TE05
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6dB Bandwidth Limit (kHz)	
5755	36.463	35.9134	> 500	
5795	36.380	35.9114	> 500	

8.6. Test Graphs

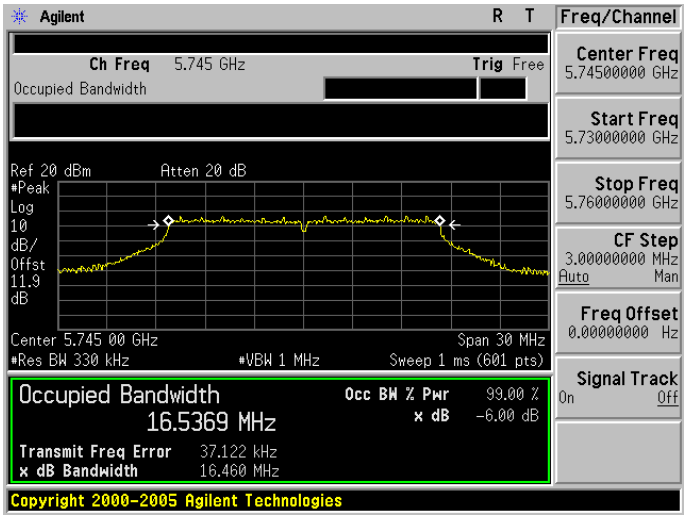
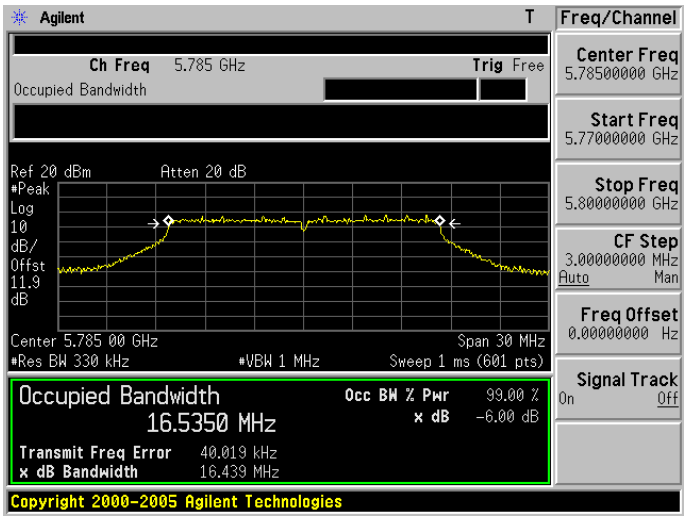
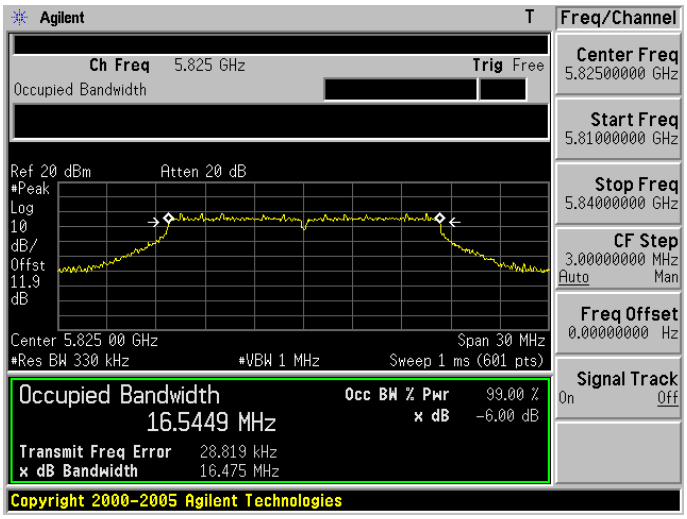
6dB Bandwidth

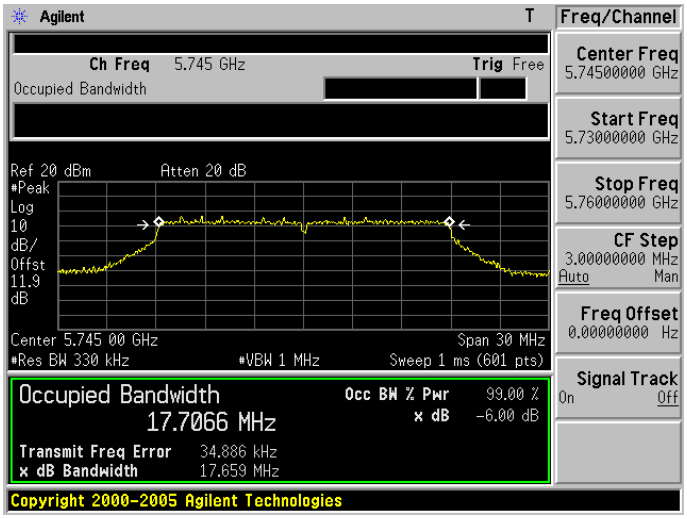
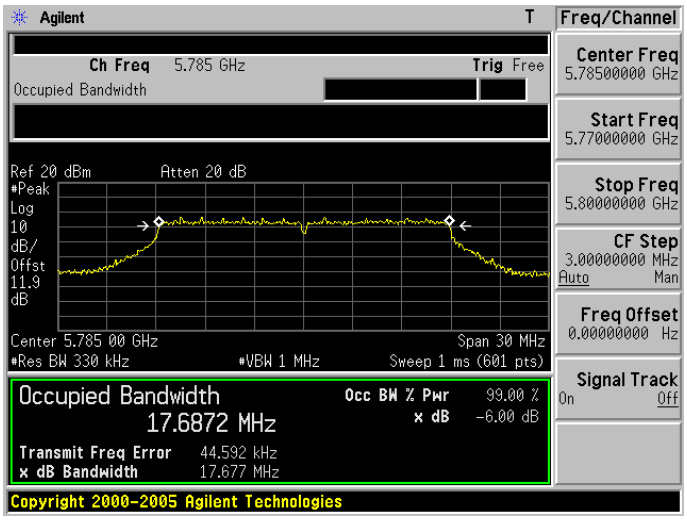
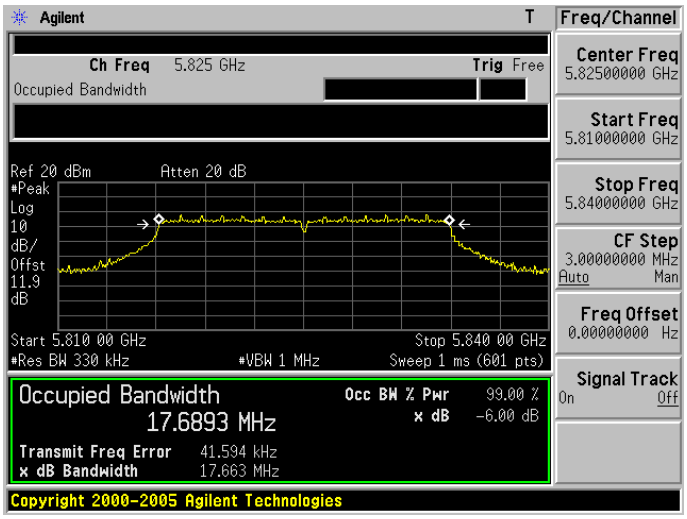
Mode 2: IEEE 802.11a Link Mode	
5745	
5785	
5825	

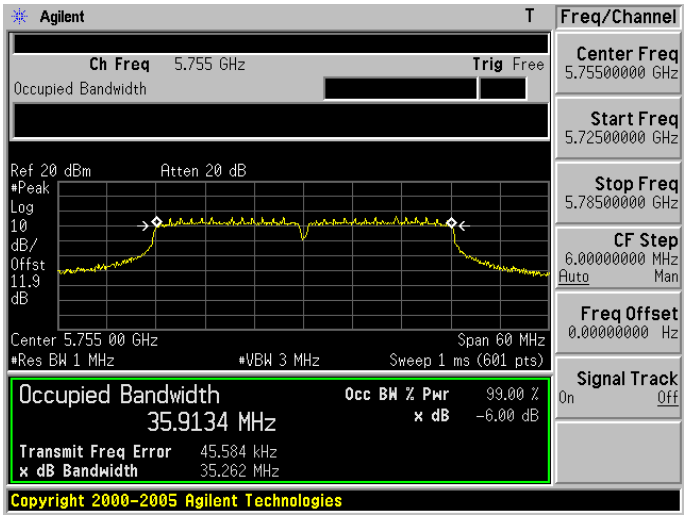
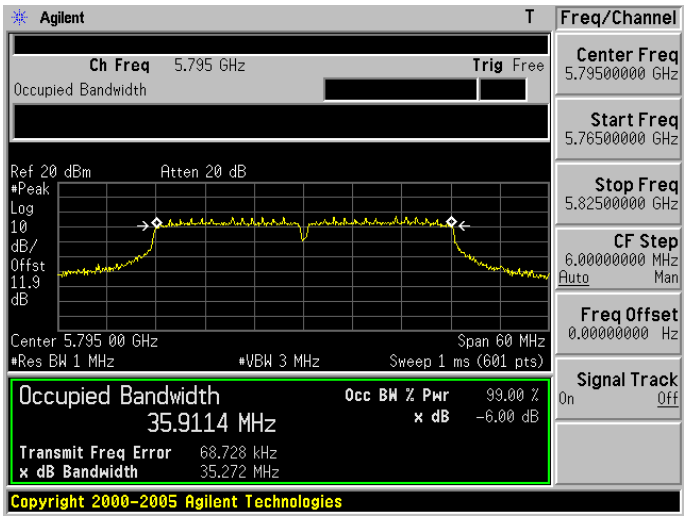
Mode 3: IEEE 802.11n 20MHz Link Mode	
5745	
5785	
5825	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5755	
5795	

99% Occupied Bandwidth

Mode 2: IEEE 802.11a Link Mode	
5745	
5785	
5825	

Mode 3: IEEE 802.11n 20MHz Link Mode	
5745	
5785	
5825	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5755	
5795	

9 Peak Power Spectral Density Measurement

9.1. Limit

Conducted power spectral density

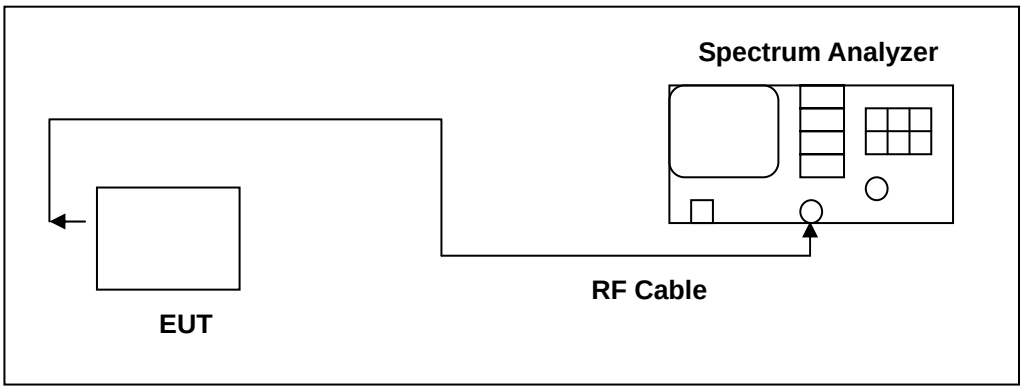
Frequency Range (MHz)	FCC Limit
5.150 ~ 5.250 GHz	11 dBm/MHz
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.725 GHz	11 dBm/MHz
5.725 ~ 5.850 GHz	30 dBm/500KHz

Frequency Range (MHz)	IC Limit
5.150 ~ 5.250 GHz	N/A
5.250 ~ 5.350 GHz	11 dBm/MHz
5.470 ~ 5.600 GHz and 5650~5725MHz	11 dBm/MHz
5.725 ~ 5.825 GHz	17 dBm/MHz

EIRP spectral density

Frequency Range (MHz)	IC Limit
5.150 ~ 5.250 GHz	10 dBm/MHz
5.250 ~ 5.350 GHz	N/A
5.470 ~ 5.600 GHz and 5650~5725MHz	N/A
5.725 ~ 5.825 GHz	N/A

9.2. Test Setup



9.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4445A	MY45300744	12/18/2013	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.
Note: N.C.R. = No Calibration Request.

9.4. Test Procedure

The test is performed in accordance with KDB789033: D02 General UNII Test Procedures New Rules v01, Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E.

9.5. Test Result

Model Number	Omni S2		
Test Item	Conducted power spectral density		
Test Mode	Mode 2: IEEE 802.11a Link Mode		
Date of Test	07/18/2014	Test Site	TE02

Frequency (MHz)	Measurement (dBm/MHz)	FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
5180	2.288	< 11	N/A
5220	2.879		
5240	2.766		
5260	2.672	< 11	< 11
5280	2.495		
5320	1.372		
5500	1.077	< 11	< 11
5580	1.395		
5700	2.243		

Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/MHz)	FCC Limit (dBm/500KHz)	IC Limit (dBm/MHz)
5745	-1.28	5.71	8.72	< 30	< 17
5785	-1.17	5.82	8.83		
5825	-2.70	4.29	7.3		

Model Number	Omni S2		
Test Item	Conducted power spectral density		
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode		
Date of Test	07/18/2014	Test Site	TE02

Frequency (MHz)	Measurement (dBm/MHz)	FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
5180	0.026	< 11	N/A
5220	0.747		
5240	0.390		
5260	0.264	< 11	< 11
5280	0.043		
5320	-1.181		
5500	-1.476	< 11	< 11
5580	-1.129		
5700	-1.952		

Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/MHz)	FCC Limit (dBm/500KHz)	IC Limit (dBm/MHz)
5745	-3.45	3.54	6.55	< 30	< 17
5785	-3.54	3.45	6.46		
5825	-4.27	2.72	5.73		

Model Number	Omni S2		
Test Item	Conducted power spectral density		
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode		
Date of Test	07/18/2014	Test Site	TE02

Frequency (MHz)	Measurement (dBm/MHz)	FCC Limit (dBm/MHz)	IC Limit (dBm/MHz)
5190	-2.190	< 11	N/A
5230	-2.265		
5270	-2.582	< 11	< 11
5310	-3.901		
5510	-2.684	< 11	< 11
5590	-2.813		
5670	-3.203		

Frequency (MHz)	Measurement (dBm/100KHz)	Measurement (dBm/500KHz)	Measurement (dBm/MHz)	FCC Limit (dBm/500KHz)	IC Limit (dBm/MHz)
5755	-6.78	0.21	3.22	< 30	< 17
5795	-6.68	0.31	3.32		

Model Number	Omni S2			
Test Item	EIRP spectral density			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	07/18/2014	Test Site		TE02
Frequency (MHz)	Measurement (dBm/MHz)	Antenna Gain (dBi)	EIRP spectral density (Dbm/MHz)	IC Limit (dBm/MHz)
5180	2.288	3.92	6.21	< 10
5220	2.879	3.92	6.80	
5240	2.766	3.92	6.69	

Model Number	Omni S2			
Test Item	EIRP spectral density			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	07/18/2014	Test Site		TE02
Frequency (MHz)	Measurement (dBm/MHz)	Antenna Gain (dBi)	EIRP spectral density (Dbm/MHz)	IC Limit (dBm/MHz)
5180	0.026	3.92	3.95	< 10
5220	0.747	3.92	4.67	
5240	0.390	3.92	4.31	

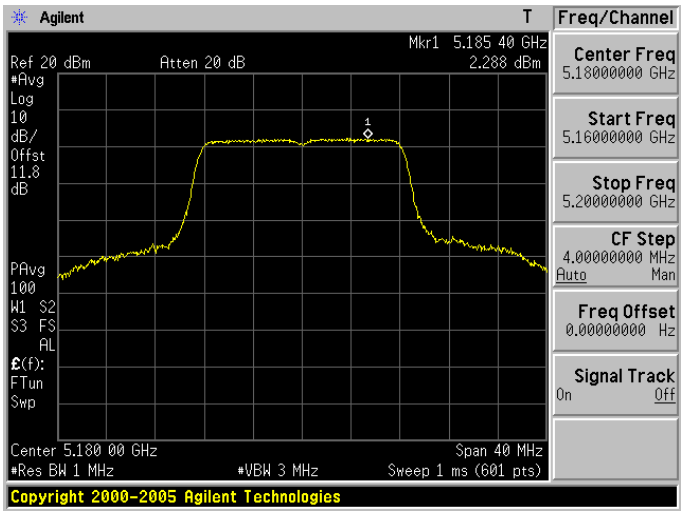
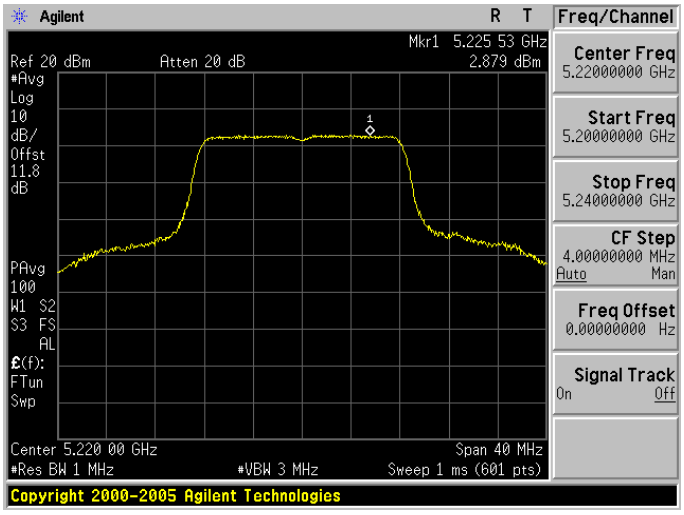
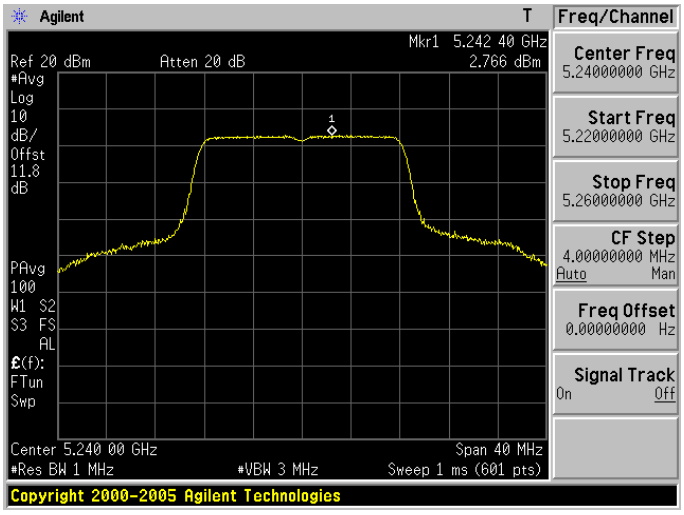
Model Number	Omni S2			
Test Item	EIRP spectral density			
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode			
Date of Test	07/18/2014	Test Site		TE02
Frequency (MHz)	Measurement (dBm/MHz)	Antenna Gain (dBi)	EIRP spectral density (Dbm/MHz)	IC Limit (dBm/MHz)
5190	-2.190	3.92	1.73	< 10
5230	-2.265	3.92	1.66	

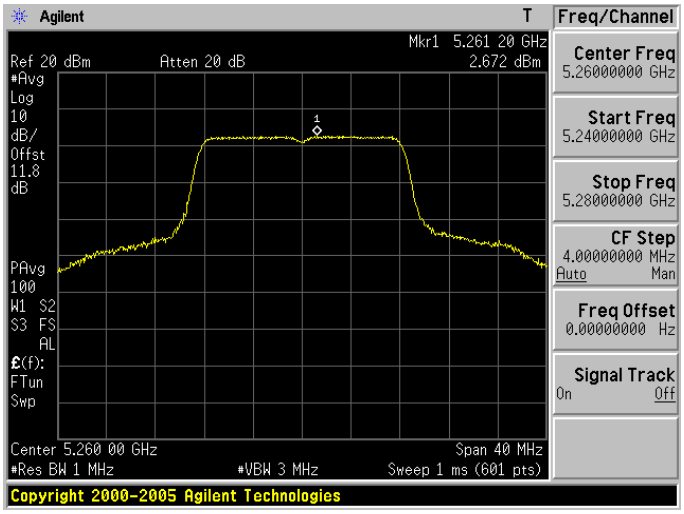
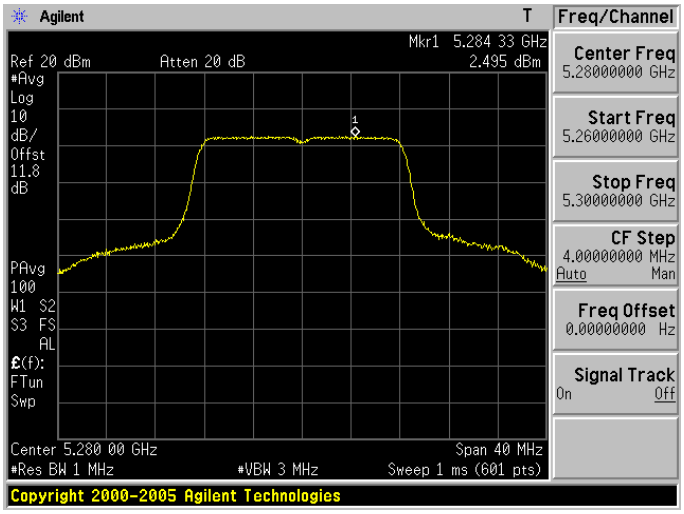
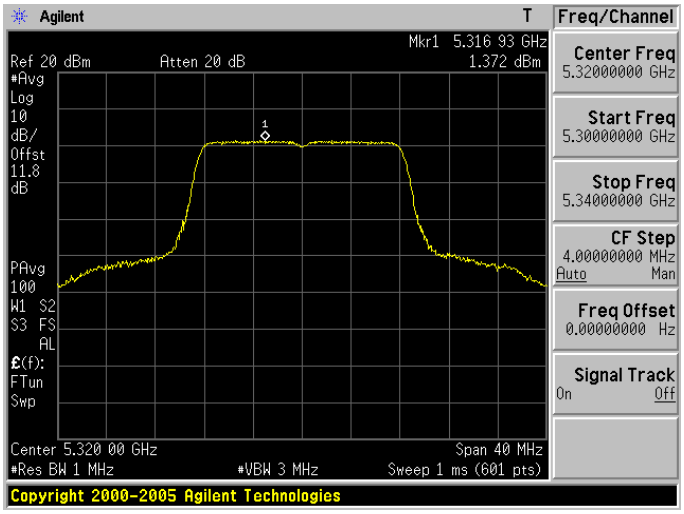
Model Number	Omni S2 Rechargeable			
Test Item	EIRP spectral density			
Test Mode	Mode 2: IEEE 802.11a Link Mode			
Date of Test	07/18/2014	Test Site		TE02
Frequency (MHz)	Measurement (dBm/MHz)	Antenna Gain (dBi)	EIRP spectral density (Dbm/MHz)	IC Limit (dBm/MHz)
5180	2.288	2.11	4.40	< 10
5220	2.879	2.11	4.99	
5240	2.766	2.11	4.88	

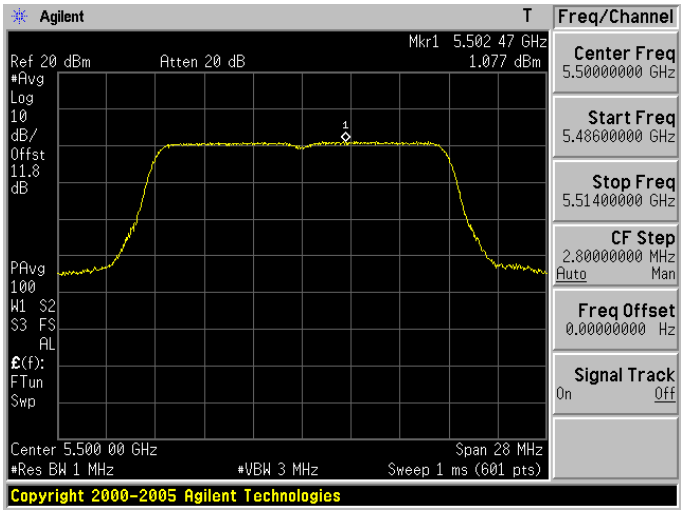
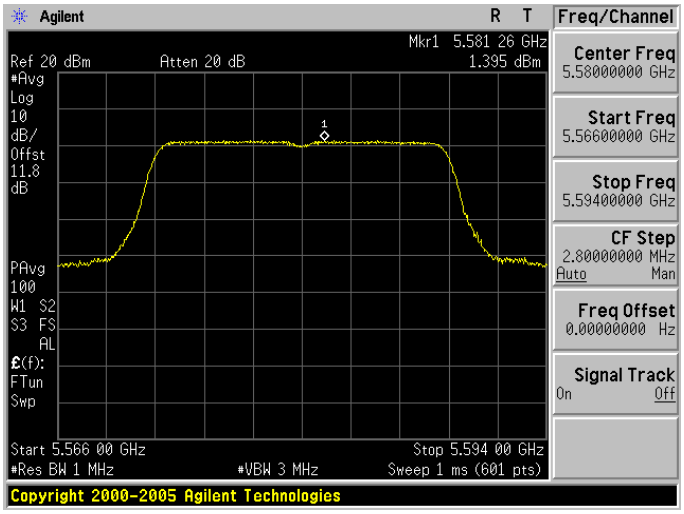
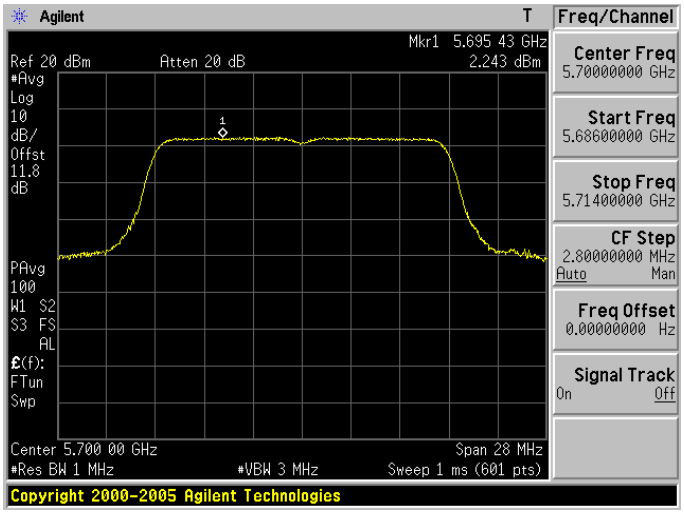
Model Number	Omni S2 Rechargeable			
Test Item	EIRP spectral density			
Test Mode	Mode 3: IEEE 802.11n 20MHz Link Mode			
Date of Test	07/18/2014	Test Site		TE02
Frequency (MHz)	Measurement (dBm/MHz)	Antenna Gain (dBi)	EIRP spectral density (Dbm/MHz)	IC Limit (dBm/MHz)
5180	0.026	2.11	2.14	< 10
5220	0.747	2.11	2.86	
5240	0.390	2.11	2.50	

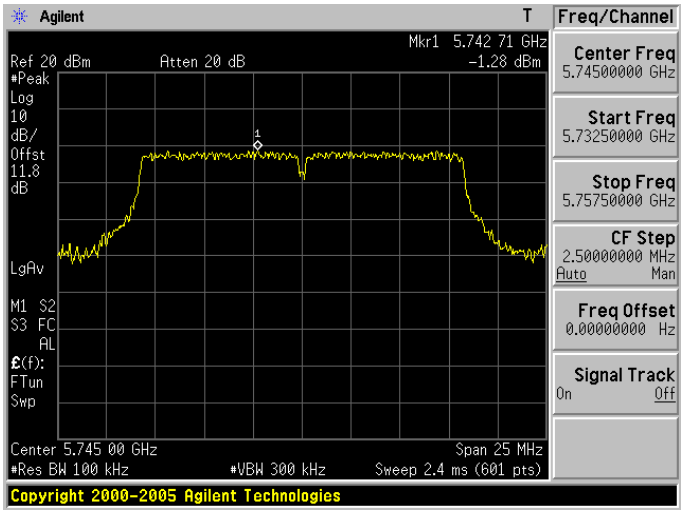
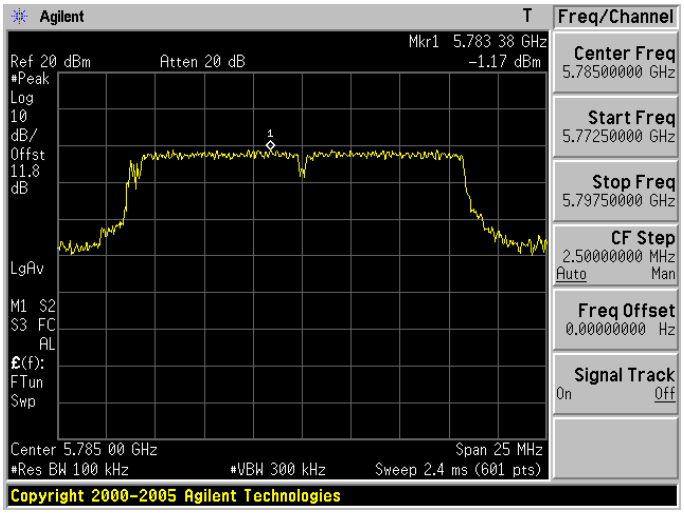
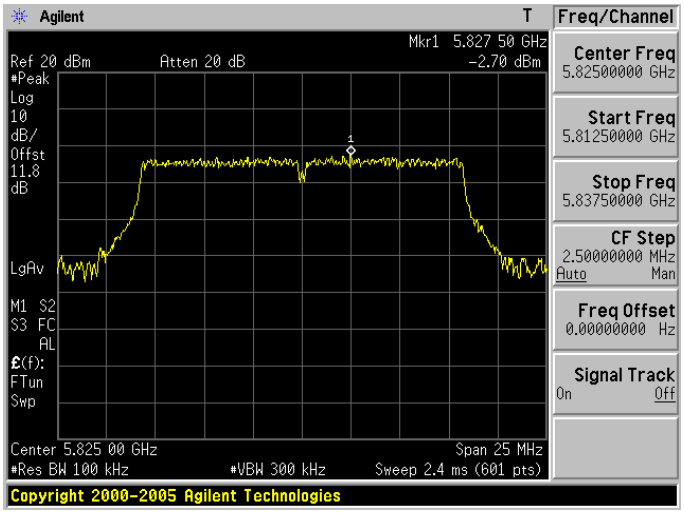
Model Number	Omni S2 Rechargeable			
Test Item	EIRP spectral density			
Test Mode	Mode 4: IEEE 802.11n 40MHz Link Mode			
Date of Test	07/18/2014	Test Site		TE02
Frequency (MHz)	Measurement (dBm/MHz)	Antenna Gain (dBi)	EIRP spectral density (Dbm/MHz)	IC Limit (dBm/MHz)
5190	-2.190	2.11	-0.08	< 10
5230	-2.265	2.11	-0.16	

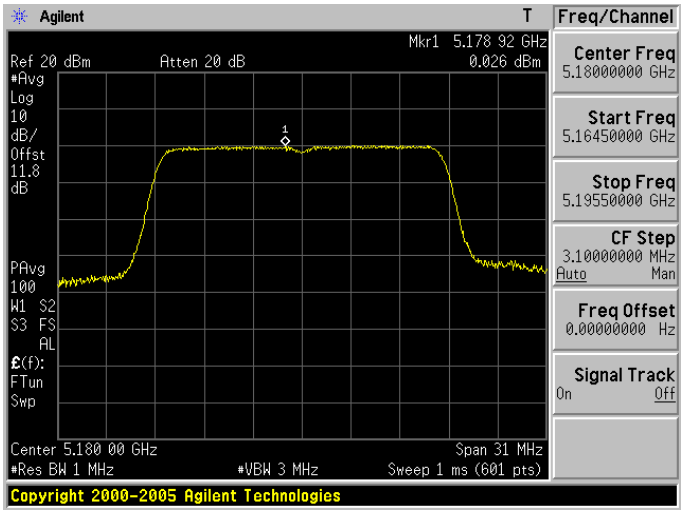
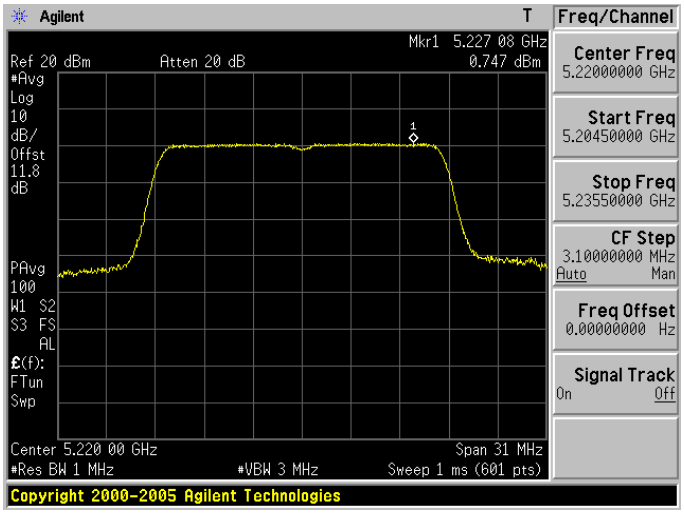
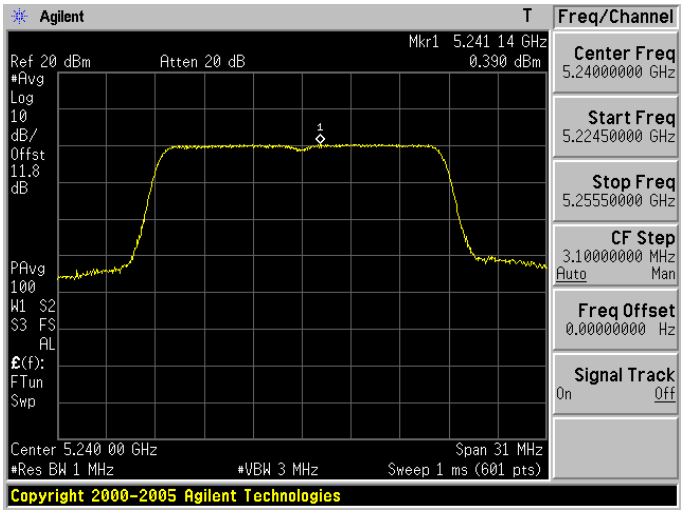
9.6. Test Graphs

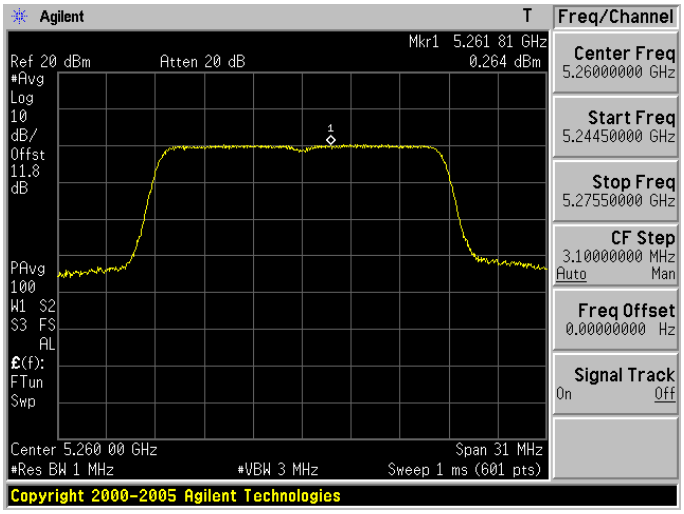
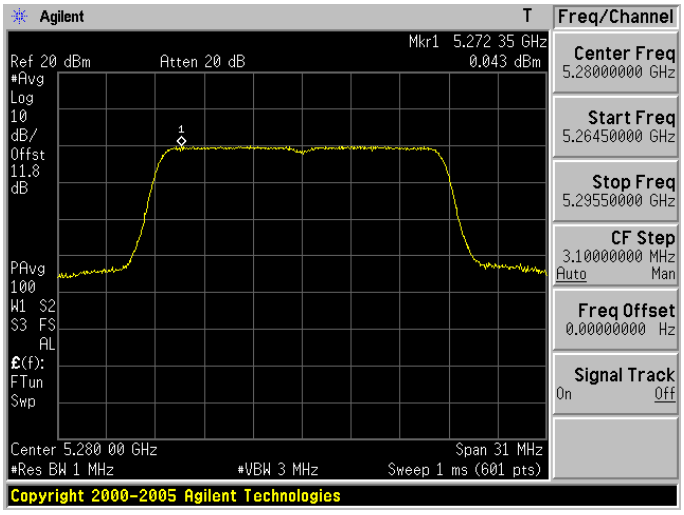
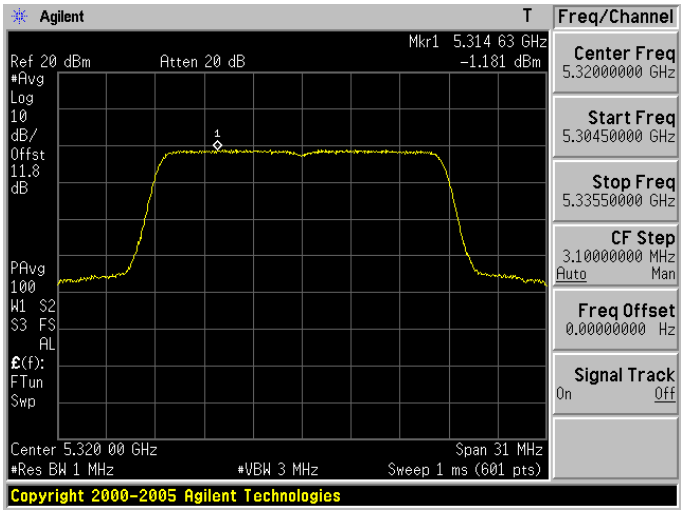
Mode 2: IEEE 802.11a Link Mode	
5180	
5220	
5240	

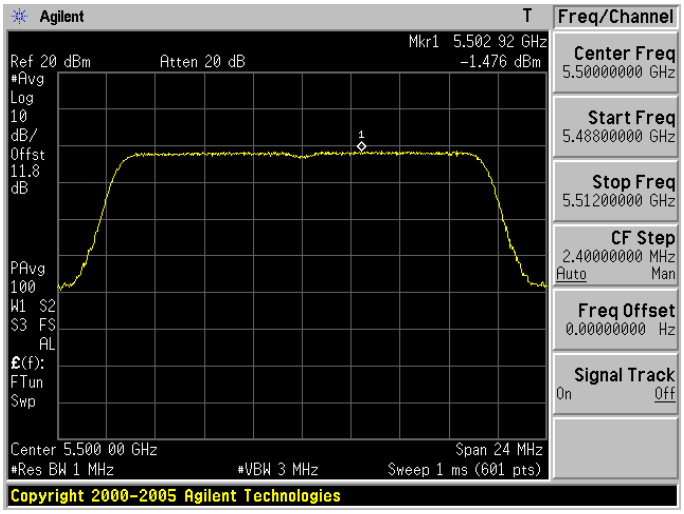
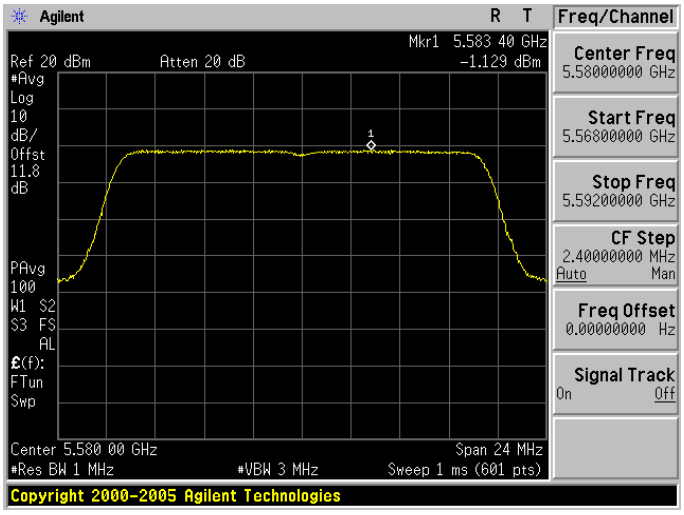
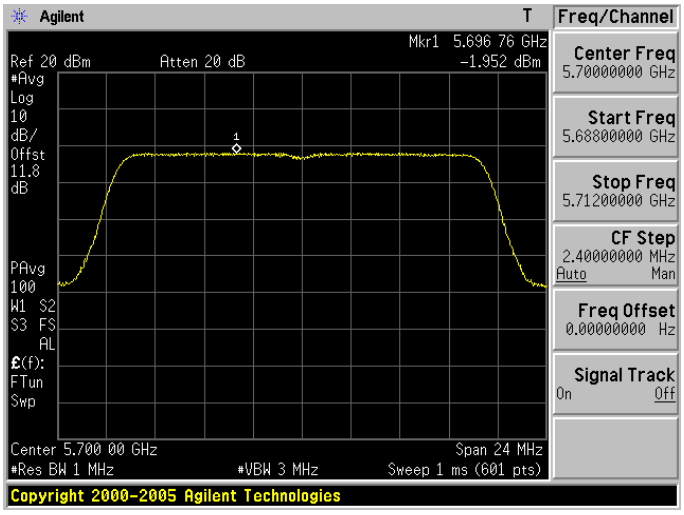
Mode 2: IEEE 802.11a Link Mode	
5260	
5280	
5320	

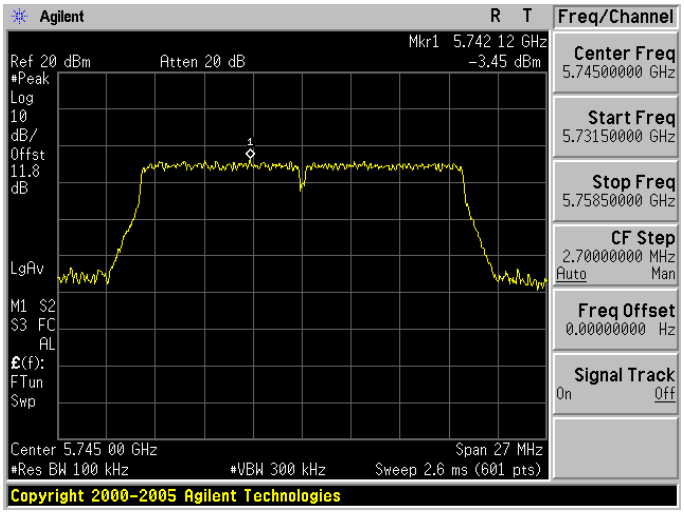
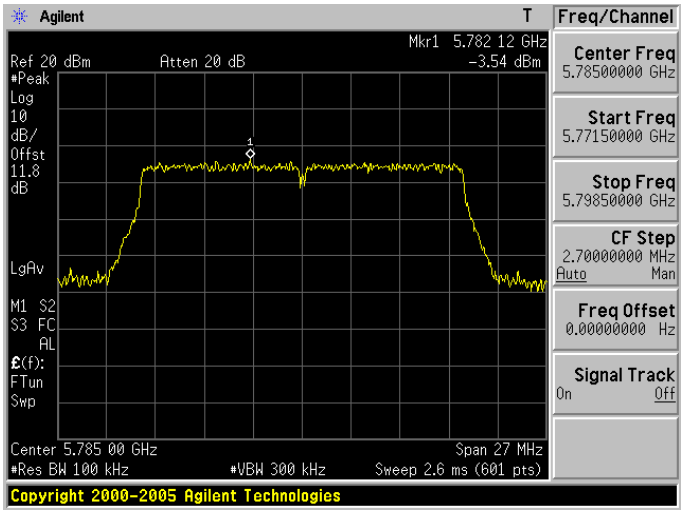
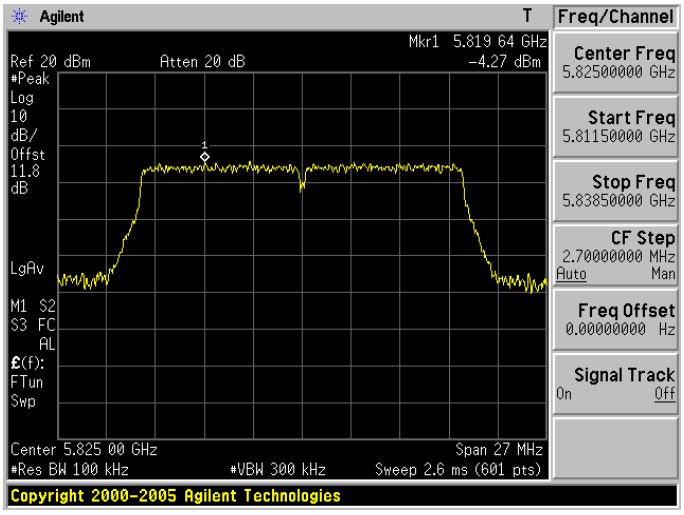
Mode 2: IEEE 802.11a Link Mode	
5500	
5580	
5700	

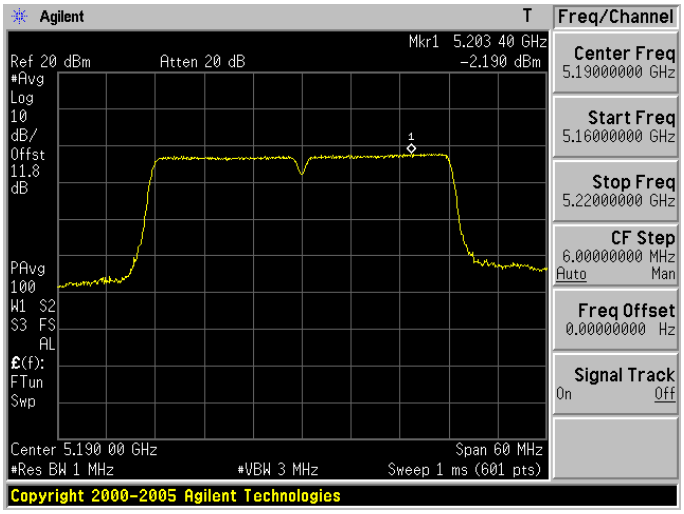
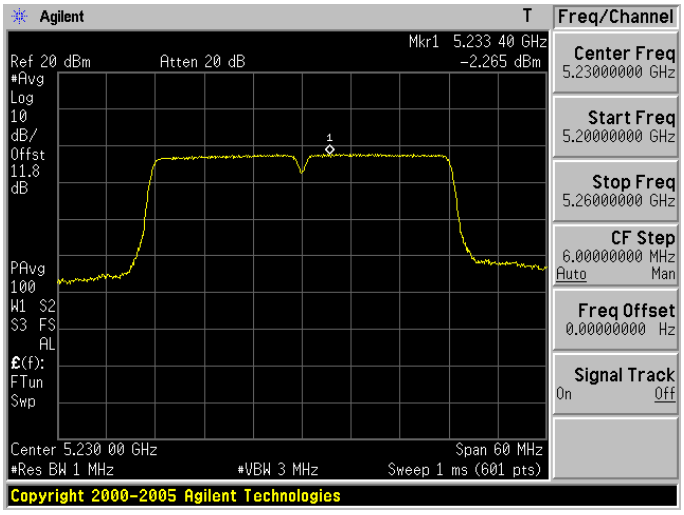
Mode 2: IEEE 802.11a Link Mode	
5745	
5785	
5825	

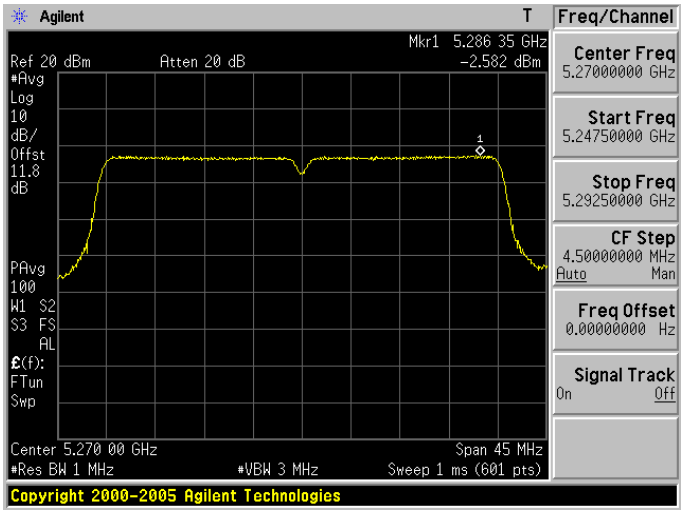
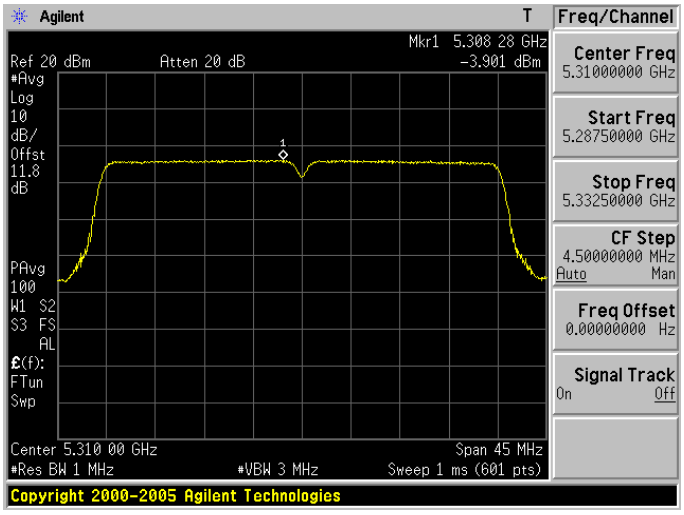
Mode 3: IEEE 802.11n 20MHz Link Mode	
5180	
5220	
5240	

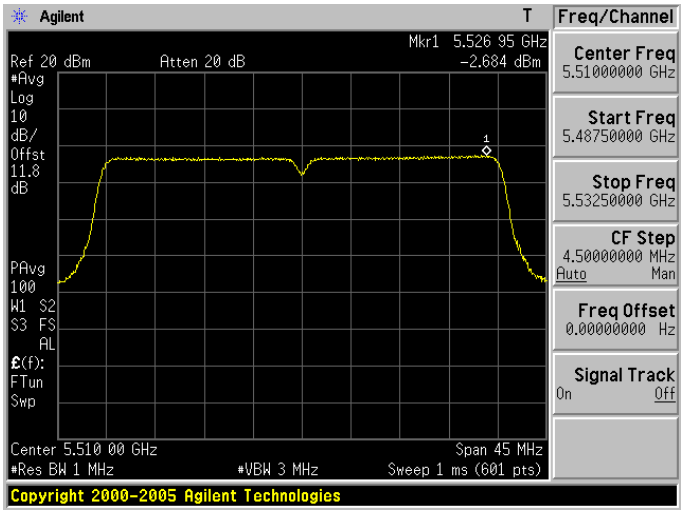
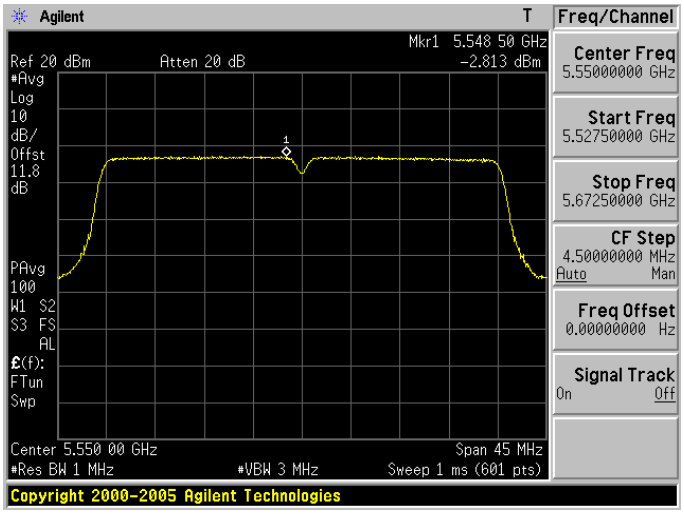
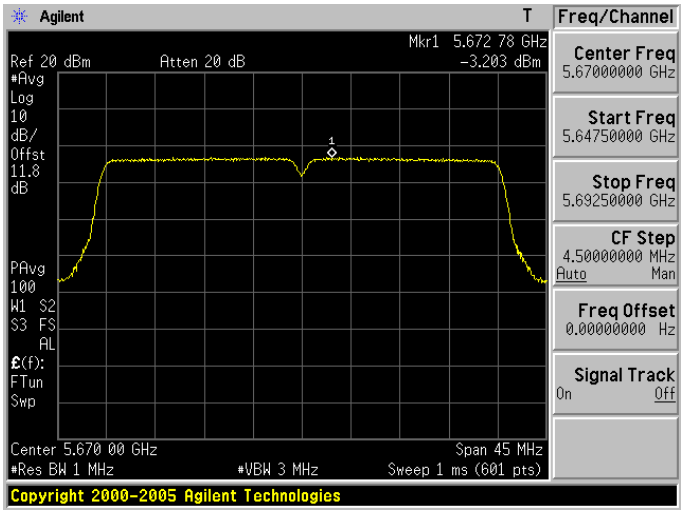
Mode 3: IEEE 802.11n 20MHz Link Mode	
5260	
5280	
5320	

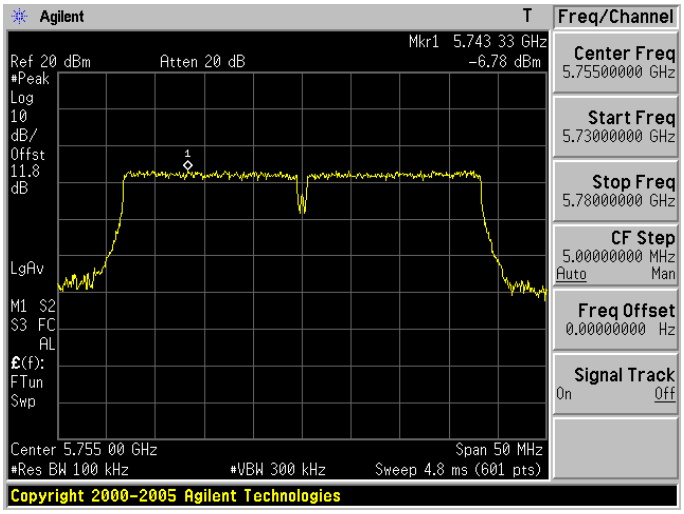
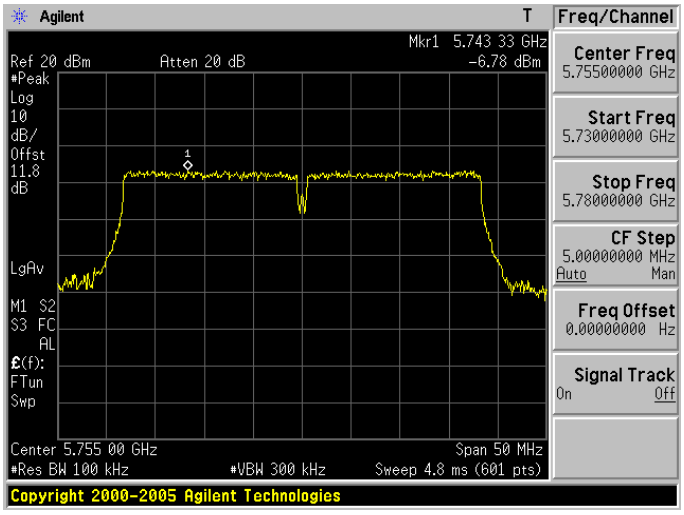
Mode 3: IEEE 802.11n 20MHz Link Mode	
5500	
5580	
5700	

Mode 3: IEEE 802.11n 20MHz Link Mode	
5745	
5785	
5825	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5190	
5230	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5270	
5310	

Mode 4: IEEE 802.11n 40MHz Link Mode	
5510	
5550	
5670	

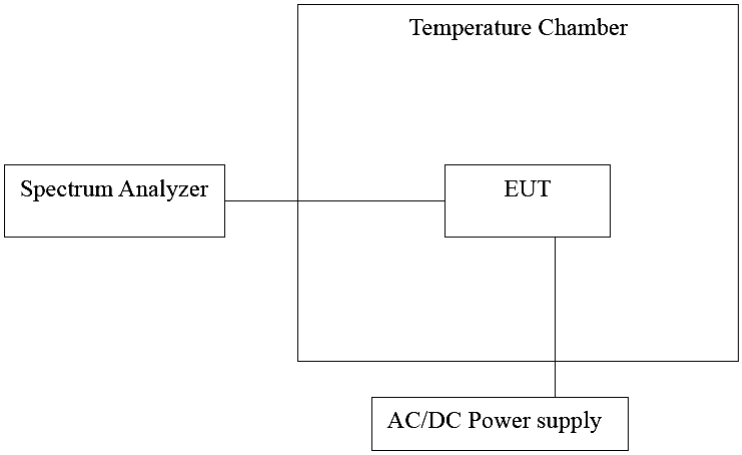
Mode 4: IEEE 802.11n 40MHz Link Mode	
5755	
5795	

10 Frequency Stability Measurement

10.1. Limit

The frequency tolerance of the carrier signal shall be maintained within the band of operation frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

10.2. Test Setup



10.3. Test Instruments

Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY45107753	07/24/2013	(1)
Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	08/07/2013	(1)
Test Site	ATL	TE02	TE02	N.C.R.	-----

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

Note: N.C.R. = No Calibration Request.

10.4. Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

10.5. Test Result

Temperature Variations

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5220 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (^{o}C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5219.9583	-41700	7.989	Pass
-20		5219.9697	-30300	5.805	Pass
-10		5220.0096	9600	-1.839	Pass
0		5219.9632	-36800	7.050	Pass
10		5220.0394	39400	-7.548	Pass
20		5219.9909	-9100	1.743	Pass
30		5219.9744	-25600	4.904	Pass
40		5219.9762	-23800	4.559	Pass
50		5220.0048	4800	-0.920	Pass

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5280 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5280.0212	21200	-4.015	Pass
-20		5279.9554	-44600	8.447	Pass
-10		5279.9576	-42400	8.030	Pass
0		5280.0245	24500	-4.640	Pass
10		5279.9627	-37300	7.064	Pass
20		5280.0086	8600	-1.629	Pass
30		5279.9551	-44900	8.504	Pass
40		5279.9766	-23400	4.432	Pass
50		5280.0238	23800	-4.508	Pass

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5580 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5579.9538	-46200	8.280	Pass
-20		5579.9932	-6800	1.219	Pass
-10		5580.0288	28800	-5.161	Pass
0		5580.0371	37100	-6.649	Pass
10		5580.0064	6400	-1.147	Pass
20		5580.0119	11900	-2.133	Pass
30		5580.0399	39900	-7.151	Pass
40		5579.9959	-4100	0.735	Pass
50		5579.9813	-18700	3.351	Pass

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5785 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5784.9835	-16500	2.852	Pass
-20		5784.9997	-300	0.052	Pass
-10		5785.0176	17600	-3.042	Pass
0		5784.9733	-26700	4.615	Pass
10		5785.0354	35400	-6.119	Pass
20		5784.9928	-7200	1.245	Pass
30		5784.9754	-24600	4.252	Pass
40		5784.9772	-22800	3.941	Pass
50		5785.0018	1800	-0.311	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5220 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5220.0115	11500	-2.203	Pass
-20		5220.0015	1500	-0.287	Pass
-10		5219.9597	-40300	7.720	Pass
0		5220.0481	48100	-9.215	Pass
10		5219.9698	-30200	5.785	Pass
20		5220.0398	39800	-7.625	Pass
30		5219.9835	-16500	3.161	Pass
40		5220.0017	1700	-0.326	Pass
50		5219.9872	-12800	2.452	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5280 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5279.9884	-11600	2.197	Pass
-20		5280.0259	25900	-4.905	Pass
-10		5279.9577	-42300	8.011	Pass
0		5280.0015	1500	-0.284	Pass
10		5279.9672	-32800	6.212	Pass
20		5279.9504	-49600	9.394	Pass
30		5280.0237	23700	-4.489	Pass
40		5279.9597	-40300	7.633	Pass
50		5280.0096	9600	-1.818	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5580 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5579.9859	-14100	2.527	Pass
-20		5580.0287	28700	-5.143	Pass
-10		5579.9806	-19400	3.477	Pass
0		5580.0363	36300	-6.505	Pass
10		5580.0179	17900	-3.208	Pass
20		5580.0262	26200	-4.695	Pass
30		5579.9797	-20300	3.638	Pass
40		5580.0068	6800	-1.219	Pass
50		5579.9661	-33900	6.075	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5785 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5785.0358	35800	-6.188	Pass
-20		5785.0153	15300	-2.645	Pass
-10		5785.0216	21600	-3.734	Pass
0		5784.9876	-12400	2.143	Pass
10		5785.0147	14700	-2.541	Pass
20		5784.9901	-9900	1.711	Pass
30		5784.9658	-34200	5.912	Pass
40		5784.9977	-2300	0.398	Pass
50		5785.0114	11400	-1.971	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5190 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5190.0498	49800	-9.595	Pass
-20		5190.0228	22800	-4.393	Pass
-10		5189.9504	-49600	9.557	Pass
0		5189.9580	-42000	8.092	Pass
10		5190.0174	17400	-3.353	Pass
20		5189.9830	-17000	3.276	Pass
30		5189.9657	-34300	6.609	Pass
40		5190.0079	7900	-1.522	Pass
50		5190.0091	9100	-1.753	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5270 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5270.0495	49500	-9.393	Pass
-20		5270.0173	17300	-3.283	Pass
-10		5269.9857	-14300	2.713	Pass
0		5269.9541	-45900	8.710	Pass
10		5270.0130	13000	-2.467	Pass
20		5269.9502	-49800	9.450	Pass
30		5269.9994	-600	0.114	Pass
40		5269.9934	-6600	1.252	Pass
50		5269.9664	-33600	6.376	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5550 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5549.9739	-26100	4.703	Pass
-20		5550.0040	4000	-0.721	Pass
-10		5550.0342	34200	-6.162	Pass
0		5550.0094	9400	-1.694	Pass
10		5549.9544	-45600	8.216	Pass
20		5550.0191	19100	-3.441	Pass
30		5549.9884	-11600	2.090	Pass
40		5550.0055	5500	-0.991	Pass
50		5550.0259	25900	-4.667	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5755 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
-30	120	5754.9798	-20200	3.510	Pass
-20		5755.0335	33500	-5.821	Pass
-10		5754.9871	-12900	2.242	Pass
0		5754.9822	-17800	3.093	Pass
10		5755.0247	24700	-4.292	Pass
20		5754.9844	-15600	2.711	Pass
30		5754.9638	-36200	6.290	Pass
40		5755.0158	15800	-2.745	Pass
50		5755.0298	29800	-5.178	Pass

Voltage Variations

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5220 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5220.0364	36400	-6.973	Pass
	120.00	5220.0239	23900	-4.579	Pass
	102.00	5220.0039	3900	-0.747	Pass

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5280 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5279.9892	-10800	2.045	Pass
	120.00	5279.9893	-10700	2.027	Pass
	102.00	5279.9837	-16300	3.087	Pass

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5580 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5579.9782	-21800	3.907	Pass
	120.00	5579.9863	-13700	2.455	Pass
	102.00	5579.9546	-45400	8.136	Pass

Model Number	Omni S2				
Test Mode	Mode 2				
Frequency	5785 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5785.0264	26400	-4.564	Pass
	120.00	5784.9928	-7200	1.245	Pass
	102.00	5784.9839	-16100	2.783	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5220 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5219.9943	-5700	1.092	Pass
	120.00	5219.9558	-44200	8.467	Pass
	102.00	5220.0267	26700	-5.115	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5280 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5279.9576	-42400	8.030	Pass
	120.00	5280.0291	29100	-5.511	Pass
	102.00	5279.9759	-24100	4.564	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5580 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5579.9562	-43800	7.849	Pass
	120.00	5580.0209	20900	-3.746	Pass
	102.00	5579.9633	-36700	6.577	Pass

Model Number	Omni S2				
Test Mode	Mode 3				
Frequency	5785 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5785.0109	10900	-1.884	Pass
	120.00	5784.9901	-9900	1.711	Pass
	102.00	5784.9776	-22400	3.872	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5190 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5190.0472	47200	-9.094	Pass
	120.00	5189.9811	-18900	3.642	Pass
	102.00	5189.9698	-30200	5.819	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5270 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5270.0135	13500	-2.562	Pass
	120.00	5270.0018	1800	-0.342	Pass
	102.00	5270.0275	27500	-5.218	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5550 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5549.9917	-8300	1.495	Pass
	120.00	5550.0158	15800	-2.847	Pass
	102.00	5549.9855	-14500	2.613	Pass

Model Number	Omni S2				
Test Mode	Mode 4				
Frequency	5755 MHz				
Date of Test	07/18/2014			Test Site	TE02
Temp. (°C)	Voltage (VAC)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (ppm)	Result (Pass/Fail)
20	138.00	5755.0147	14700	-2.554	Pass
	120.00	5754.9844	-15600	2.711	Pass
	102.00	5754.9866	-13400	2.328	Pass

11 Antenna Requirement

11.1. Limit

For intentional device, according to 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.
And According to 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Antenna Connector Construction

The antenna used in this product is listed below.

Trade Name	Model Number	Type	Max. Gain
LinkTek	1029-000080	EXTERNAL ANTENNA	2.11 dBi
MAG.LAYERS	MSA-3310-25GC4-A1	METAL STAMPING ANTENNA	3.92 dBi