

**FCC 15.247& RSS-247
2.4 GHz Report**

for

LG Electronics Inc.

222 LG-ro Jinwi-myeon 451-713
Pyeongtaek-si, Gyeonggi-do 451-713, Korea

Brand	: GM
Product Name	: Silver box RADIO ASM-RECEIVER
Model Name	: LC10S-B
FCC ID	: BEJLC10SB
IC	: 2703H-LC10SB

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APPENDIX A TEST PHOTOGRAPHS
APPENDIX B TEST PLOTS

TEST REPORT CERTIFICATION

Applicant : LG Electronics Inc.
Manufacture : LG Electronics Inc.
Factory : LG ELECTRONICS VIETNAM HAI PHONG CO., LTD.
Product Name : Silver box RADIO ASM-RECEIVER
Model No. : LC10S-B
Serial No. : N/A
Brand : GM

Applicable Standards:

FCC Rules and Regulations Part 15 Subpart C, Oct. 2014
RSS-Gen (Issue 4), November 2014
RSS-247 (Issue 1), May 2015
ANSI C63.10:2013
KDB 558074 D01 DTS Meas Guidance v03r03

AUDIX Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report. **AUDIX Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Test: 2016. 01. 11 ~ 21

Date of Report: 2015. 01. 22

Producer: Annie Yu
(Annie Yu/Administrator)

Signatory: Ben Cheng
(Ben Cheng/Manager)

1. REPORT HISTORY

Revision	Date	Revision Summary	Report Number
0	2015. 01. 22	Original Report.	EM-F160034

2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	N/A, Note
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	RSS-247 §5.2(1)	6dB Bandwidth	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	PASS
15.203	----	Antenna Requirement	PASS
Note: The EUT powered by battery only, thus conducted emission is not required.			

3. GENERAL INFORMATION

3.1. Description of EUT

Product	Silver box RADIO ASM-RECEIVER							
Model Number	LC10S-B							
Serial Number	N/A							
Brand Name	GM							
Applicant	LG Electronics Inc. 222 LG-ro Jinwi-myeon 451-713 Pyeongtaek-si, Gyeonggi-do 451-713, Korea							
Manufacture	LG Electronics Inc. 222 LG-ro Jinwi-myeon 451-713 Pyeongtaek-si, Gyeonggi-do 451-713, Korea							
Factory	LG ELECTRONICS VIETNAM HAI PHONG CO., LTD. Lots CN2 and CN3, Trang Due Industrial Zone, An Duong District, within Dinh Vu - Cat Hai Economic Zone, Hai Phong City, Vietnam.							
RF Features	WLAN:802.11a/b/g/n Bluetooth: BT 3.0+EDR							
Transmit Type	<table><tr><td>802.11b</td><td>1T1R</td></tr><tr><td>802.11g</td><td>1T1R</td></tr><tr><td>802.11n-HT20</td><td>1T1R</td></tr></table>		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	1T1R
802.11b	1T1R							
802.11g	1T1R							
802.11n-HT20	1T1R							
Device Category	☐ Outdoor Access Point ☐ Fixed point-to-point Access Point ☐ Indoor Access Point ☒ Mobile and Portable client device							
Date of Receipt of Sample	2016. 01. 06							

3.2. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2462	11	DSSS (DBPSK/DQPSK/CCK)	1/2/5.5/11
802.11g		11	OFDM (BPSK/QPSK/16QAM/64QAM)	6/9/12/18/24/36/48/54
802.11n-HT20				6.5/13/19.5/26/39/52/58.5/65

Channel List	
802.11 b/g/n-HT20	
Channel Number	Frequency (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

3.3. Antenna Information

Antenna Part Number	Manufacture	Antenna Type	Frequency	Max Gain (dBi)
AMAN1003030L G02	Amotech CO.LTD	Dielectric Chip Antenna	2.4GHz (WLAN & BT)	2.9
			5GHz (WLAN)	UNII Band I: 3.6 UNII Band III: 2.9

3.4. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
6	DBPSK	1	16.05
6	DQPSK	2	15.89
6	CCK	5.5	15.94
6	CCK	11	16.02

802.11g			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	6	14.97
1	BPSK	9	14.73
1	QPSK	12	14.89
1	QPSK	18	14.52
1	16-QAM	24	14.27
1	16-QAM	36	14.50
1	64-QAM	48	14.83
1	64-QAM	54	14.68

802.11n-HT20			
Channel	Modulation	Date Rate	Power (dBm)
1	BPSK	MCS0	14.87
1	QPSK	MCS1	14.65
1	QPSK	MCS2	14.52
1	16-QAM	MCS3	14.80
1	16-QAM	MCS4	14.24
1	64-QAM	MCS5	14.39
1	64-QAM	MCS6	14.08
1	64-QAM	MCS7	14.71

Note: Above results are assessed in average power.

3.5. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11b	0.99	12.40	0.04
802.11g	0.9447	2.05	0.25
802.11n-HT20	0.94	1.90	0.27

Note: When duty cycle is less than 98% (0.98) that duty cycle factor $10\log(1/x)$ is needed to add in conducted test items measured in average detector.

Item		Mode	Data Rate	Test Channel
Radiated Test Case	Radiated Band Edge Note1	802.11b	1 Mbps	1/11
		802.11g	6Mbps	1/11
		802.11n-HT20	MCS0	1/11
	Radiated Spurious Emission Note1 & 2	802.11b	1 Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS0	1/6/11
Conducted Test Case	6dB Bandwidth	802.11b	1 Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS0	1/6/11
	Peak Power Spectral Density	802.11b	1 Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS0	1/6/11
	Peak Output Power	802.11b	1 Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS0	1/6/11
	Band Edge	802.11b	1 Mbps	1/11
		802.11g	6Mbps	1/11
		802.11n-HT20	MCS0	1/11
	Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS0	1/6/11

Note 1:

☒ Mobile Device

☐ Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

☐ Lie

☐ Side

3.6. Tested Supporting System List

3.6.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Display	LG	LC10S	511194947	N/A
2.	DC Power Supply	TOP WARD	3303A	721773	N/A
3.	DC Power Supply	KIKUSUI	PWR400L	N/A	N/A

3.6.2. Cable Lists

No.	Cable Description Of The Above Support Units
1.	Cable: Unshielded, Detachable, 0.6m USB Cable: Unshielded, Detachable, 1.2m
2.	DC Power Cord*2: Unshielded, Detachable, 0.6+0.6m*2
3.	DC Power Cord*2: Unshielded, Detachable, 0.6+0.6m*2

3.7. Setup Configuration

3.7.1. EUT Configuration for Power Line Emission



3.7.2. EUT Configuration for Conducted Test Items



3.8. Operating Condition of EUT

Test program installed in EUT is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.

3.9. Description of Test Facility

Test Firm Name	:	AUDIX Technology Corporation EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan
Test Location & Facility	:	Semi-Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Date of Renewal: May 06, 2015 Federal Communication Commission Registration Number: 90993 Fully Semi-Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan IC Test Site Registration No.: 5183B-4 Renewal on August 31, 2015
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

3.10. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.5dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 3.64dB
	300MHz~1000MHz	± 4.70dB
	Above 1GHz	± 2.94dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

4. MEASUREMENT EQUIPMENT LIST

4.1. Radiated Emission Measurement

4.1.1. Frequency Range 30MHz~1000MHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2015. 09. 14	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2015. 06. 24	1 Year
3.	Amplifier	HP	8447D	2944A06305	2015. 02. 12	1 Year
4.	Bilog Antenna	TESEQ	CBL6112D	33821	2015. 02. 27	1 Year

4.1.2. Frequency Range Above 1GHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	2015. 08. 20	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2015. 06. 24	1 Year
3.	Amplifier	Agilent	8449B	3008A02676	2015. 02. 11	1 Year
4.	2.4GHz Notch Filter	K&L	7NSL10-244 1.5E130.5-00	1	2015. 07. 22	1 Year
5.	Double-Ridged Waveguide Horn	ETS-Lindgren	3117	00135902	2015. 03. 06	1 Year
6.	Horn Antenna	EMCO	3116	2653	2015. 10. 20	1 Year

4.2. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2015. 11. 28	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2015. 10. 23	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2015. 10. 23	1 Year

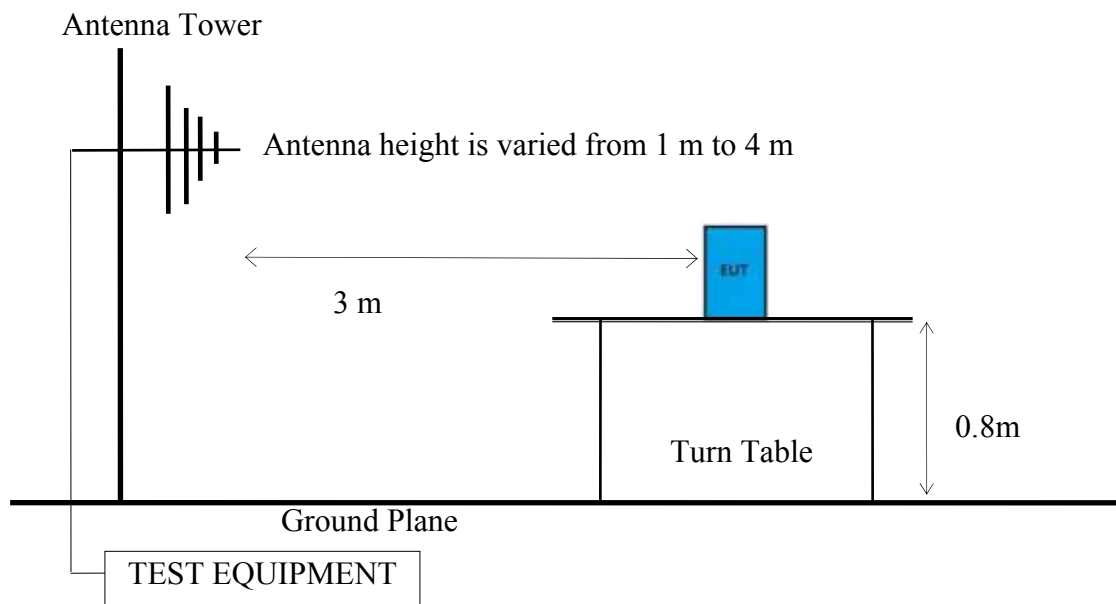
5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

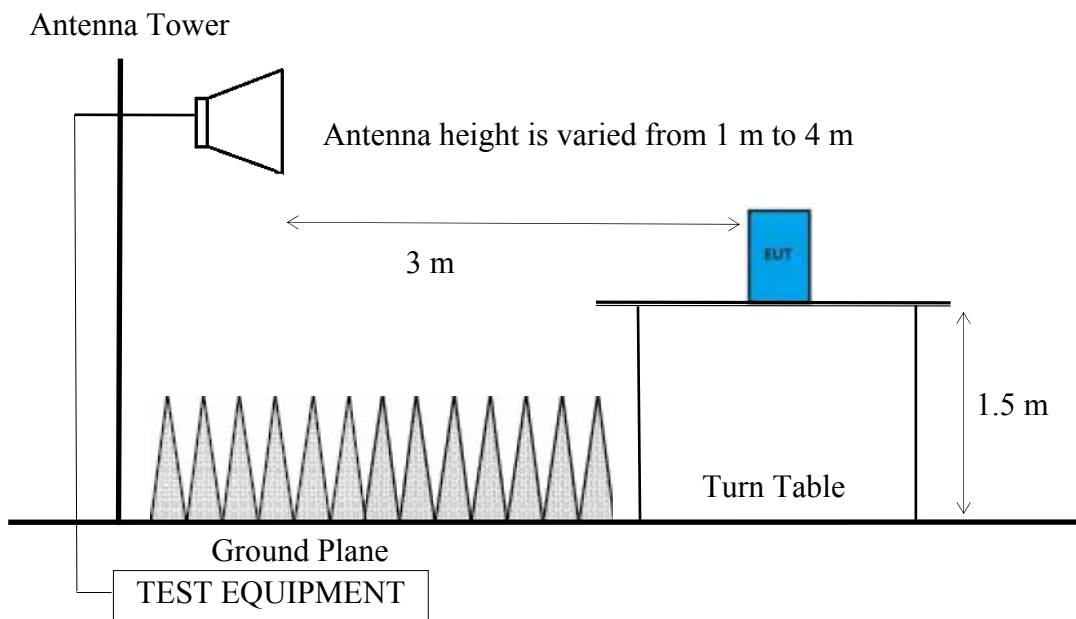
5.1.1. Block Diagram of connection between EUT and simulators

Indicated as section 3.7

5.1.2. Setup Diagram for 30-1000 MHz



5.1.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



5.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Field Strengths Limits	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

Remark : (1) $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

5.3. Test Procedure

The EUT setup on the turn find table which has 80 cm height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013, RSS-Gen and RSS-247 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

Frequency above 1GHz to 10th harmonic:

Peak Detector:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

Average Detector:**■ Option 1:**

- (1) RBW = 120KHz
- (2) VBW $\geq 1/ T$.

Modulation Type	T (ms)	1/ T (Hz)	VBW Setting
802.11b	12.40	N/A	10 Hz
802.11g	2.05	487.8000	1 kHz
802.11n-HT20	1.90	495.0495	1 kHz

N/A: 1/ T is not implemented when duty cycle presented in section 3.5 is $\geq 98 \%$.

- (1) Detector = Peak.
- (2) Sweep time = auto.
- (3) Trace mode = max hold.
- (4) Allow sweeps to continue until the trace stabilizes.

□ Option 2:

Average Emission Level= Peak Emission Level+ D.C.C.F.

5.4. Measurement Result Explanation

- Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading
- Average Emission Level=Antenna Factor + Cable Loss + Meter Reading
- Average Emission Level= Peak Emission Level+ DCCF
Duty Cycle Correction Factor (DCCF)= $20\log (TX_{on}/TX_{on+off})$ presented in section 3.5
- EPR= Peak Emission Level-95.2dB-2.14dBi

5.5. Test Results

PASSED.

Test Date	2016/01/14	Temp./Hum.	24 /41 %
Test Voltage	DC 12V		

5.5.1. Emissions within Restricted Frequency Bands

5.5.1.1. Frequency Below 1 GHz

Mode	802.11b	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
83.35	7.97	3.04	28.14	39.15	40.00	0.85	Peak
179.38	9.14	3.83	24.89	37.86	43.50	5.64	Peak
962.17	20.90	7.90	15.47	44.27	54.00	9.73	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
44.55	10.98	2.57	24.63	38.18	40.00	1.82	Peak
81.41	7.68	3.01	28.68	39.37	40.00	0.63	Peak
675.05	18.64	6.67	13.20	38.51	46.00	7.49	Peak

Mode	802.11g	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
84.32	8.17	3.06	27.71	38.94	40.00	1.06	Peak
180.35	9.12	3.84	24.88	37.84	43.50	5.66	Peak
950.53	20.85	7.84	16.35	45.04	46.00	0.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
44.55	10.98	2.57	24.73	38.28	40.00	1.72	Peak
84.32	8.17	3.06	28.01	39.24	40.00	0.76	Peak
604.24	18.34	6.51	12.19	37.04	46.00	8.96	Peak

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

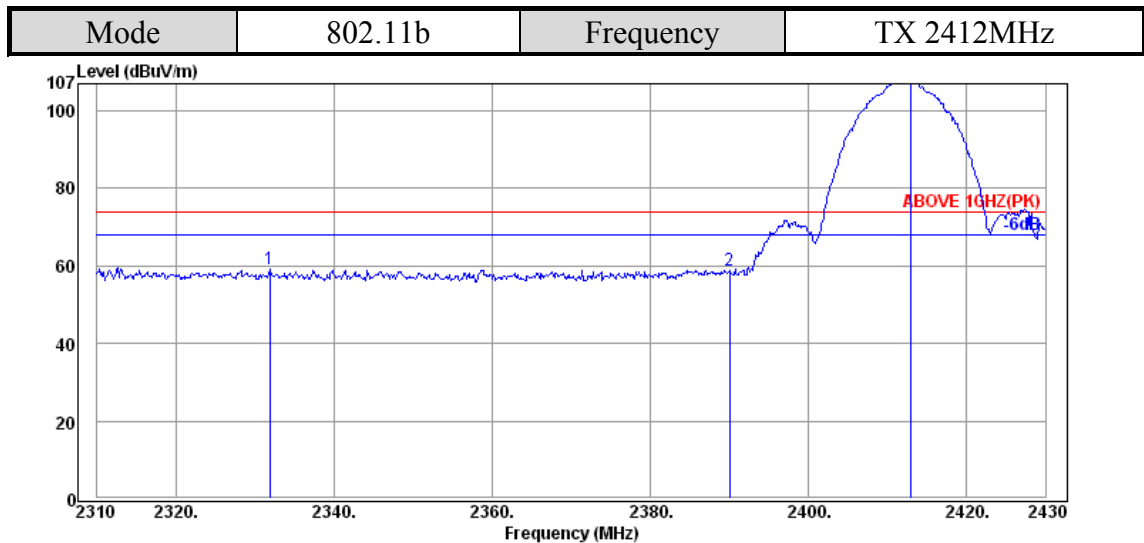
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
84.32	8.17	3.06	27.67	38.90	40.00	1.10	Peak
181.32	9.13	3.84	24.75	37.72	43.50	5.78	Peak
954.41	20.87	7.86	15.67	44.40	46.00	1.60	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
45.52	10.51	2.59	25.16	38.26	40.00	1.74	Peak
83.35	7.97	3.04	27.88	38.89	40.00	1.11	Peak
676.02	18.64	6.67	11.68	36.99	46.00	9.01	Peak

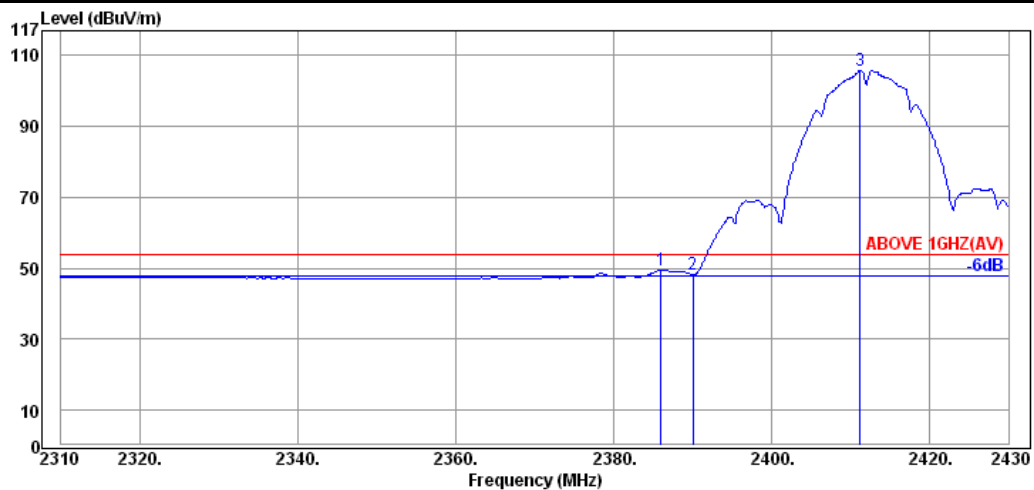
5.5.2. Frequency Above 1 GHz to 10th harmonics

Band Edge:



Antenna at Horizontal Polarization

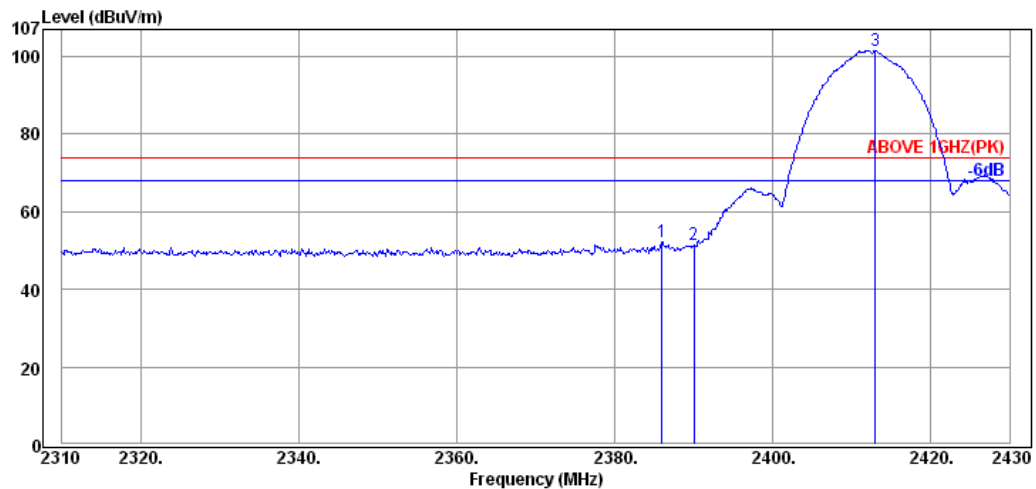
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2331.84	31.61	6.00	21.46	59.07	74.00	14.93	Peak
2390.04	31.68	6.08	20.96	58.72	74.00	15.28	Peak
2412.96	31.71	6.11	70.21	108.03	---	---	Peak



Antenna at Horizontal Polarization

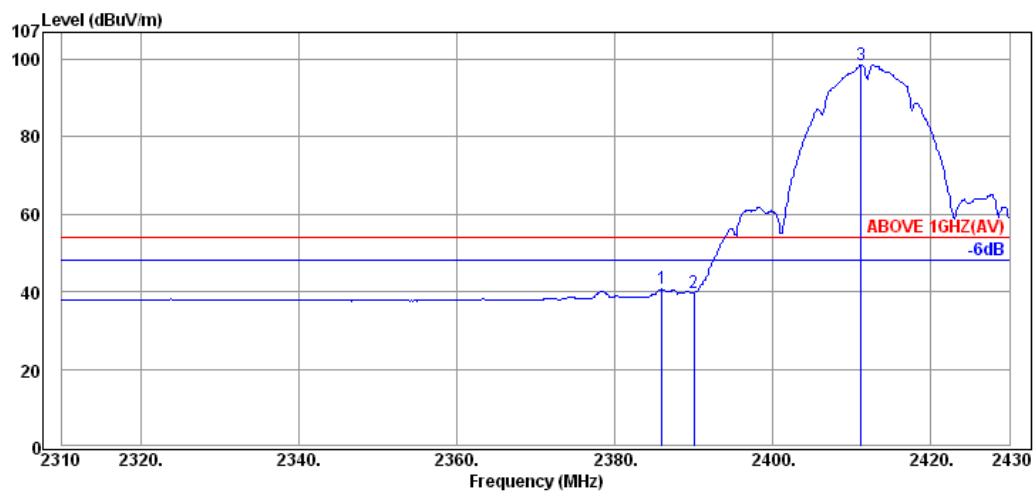
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.96	31.68	6.07	11.65	49.40	54.00	4.60	Average
2390.04	31.68	6.08	10.49	48.25	54.00	5.75	Average
2411.16	31.70	6.11	67.97	105.78	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
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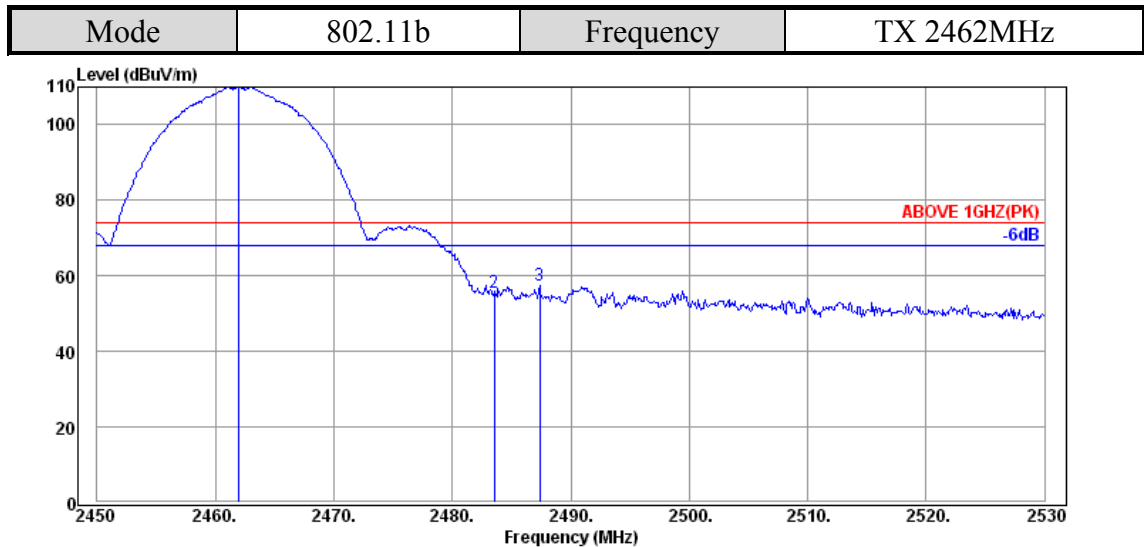
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.96	31.68	6.07	14.54	52.29	74.00	21.71	Peak
2390.04	31.68	6.08	13.81	51.57	74.00	22.43	Peak
2412.96	31.71	6.11	63.75	101.57	---	---	Peak



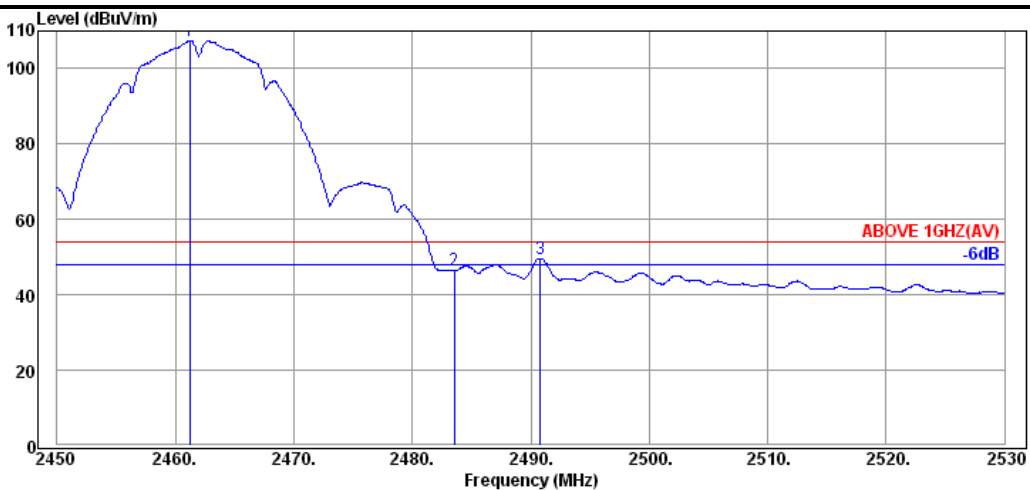
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.96	31.68	6.07	2.89	40.64	54.00	13.36	Average
2390.04	31.68	6.08	2.13	39.89	54.00	14.11	Average
2411.16	31.70	6.11	60.86	98.67	---	---	Average



Antenna at Horizontal Polarization

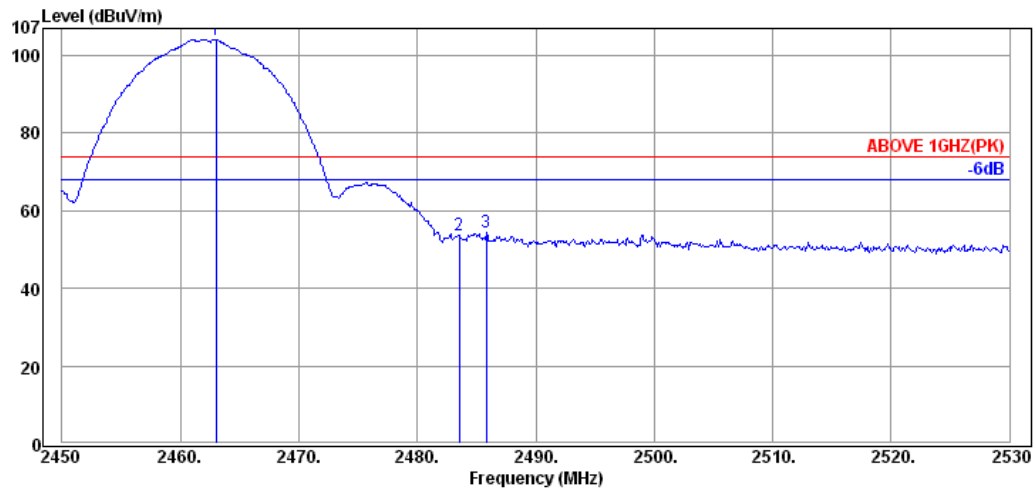
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.00	31.76	6.16	72.03	109.95	---	---	Peak
2483.52	31.78	6.19	17.44	55.41	74.00	18.59	Peak
2487.36	31.78	6.19	19.55	57.52	74.00	16.48	Peak



Antenna at Horizontal Polarization

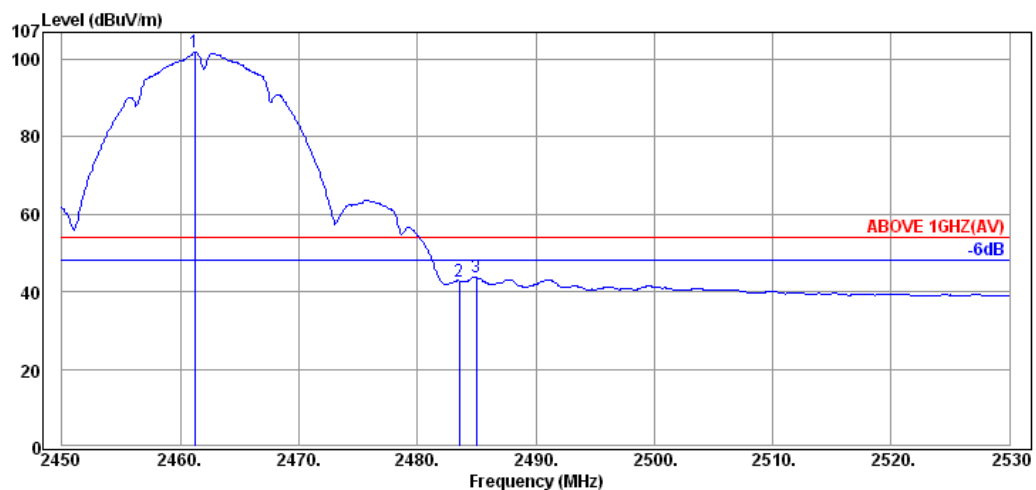
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	31.76	6.16	69.61	107.53	---	---	Average
2483.52	31.78	6.19	8.35	46.32	54.00	7.68	Average
2490.80	31.79	6.19	11.68	49.66	54.00	4.34	Average

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

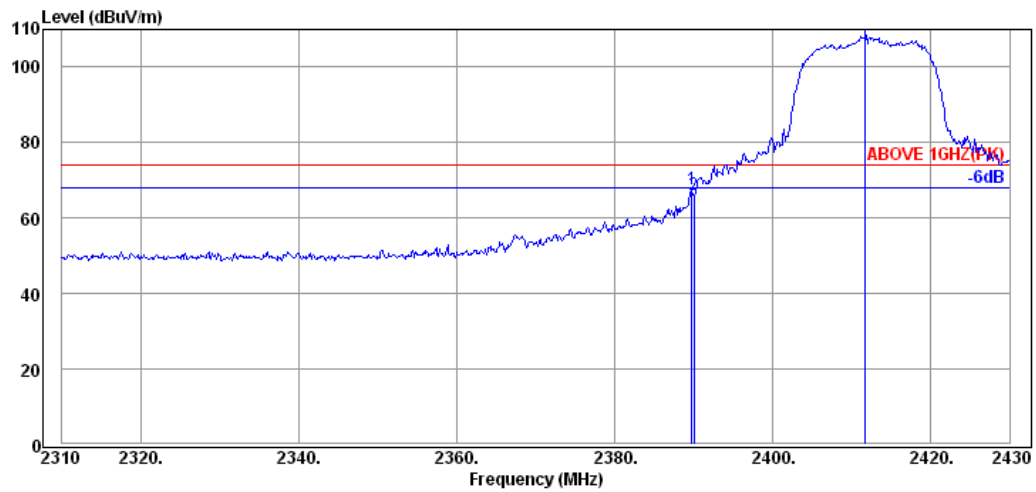
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.04	31.76	6.16	66.22	104.14	---	---	Peak
2483.52	31.78	6.19	15.56	53.53	74.00	20.47	Peak
2485.84	31.78	6.19	16.32	54.29	74.00	19.71	Peak



Antenna at Vertical Polarization

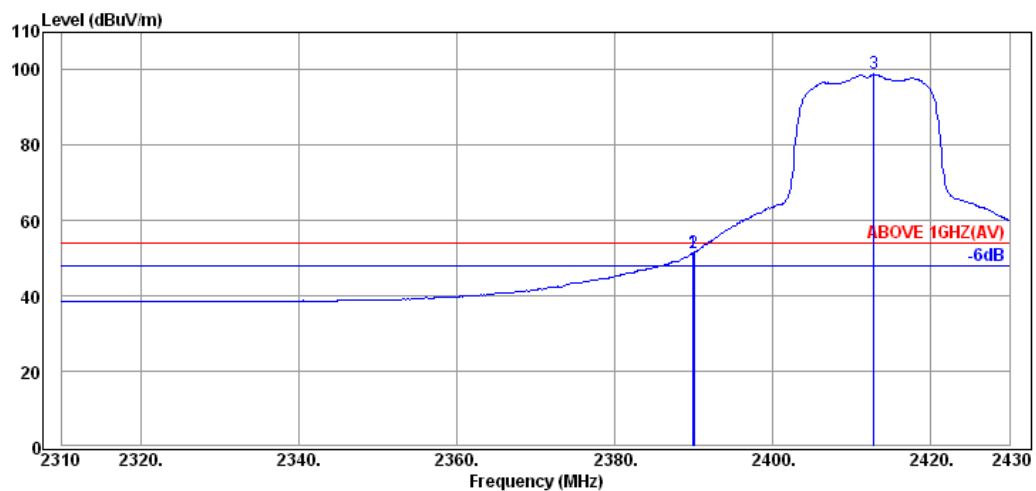
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	31.76	6.16	63.85	101.77	---	---	Average
2483.52	31.78	6.19	4.81	42.78	54.00	11.22	Average
2484.96	31.78	6.19	5.76	43.73	54.00	10.27	Average

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

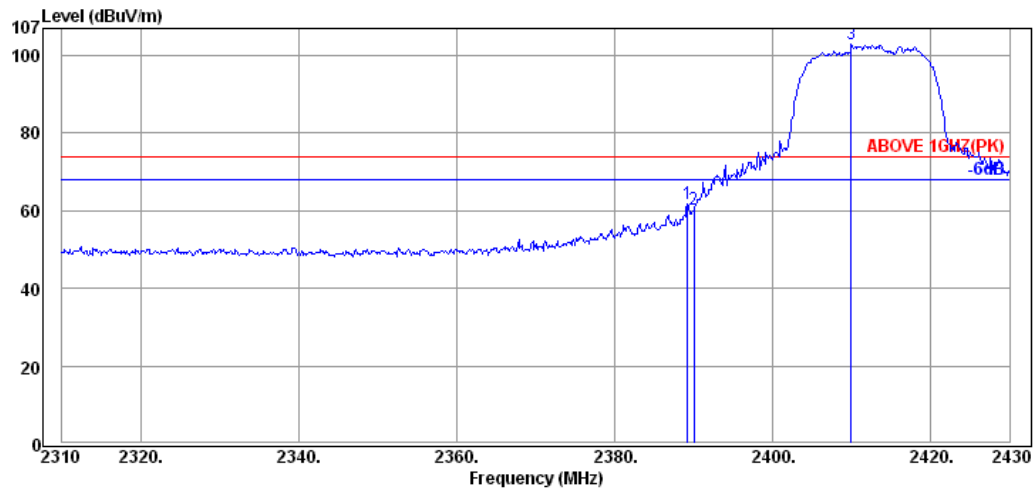
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	31.68	6.08	30.00	67.76	74.00	6.24	Peak
2390.04	31.68	6.08	28.41	66.17	74.00	7.83	Peak
2411.76	31.71	6.11	71.85	109.67	---	---	Peak



Antenna at Horizontal Polarization

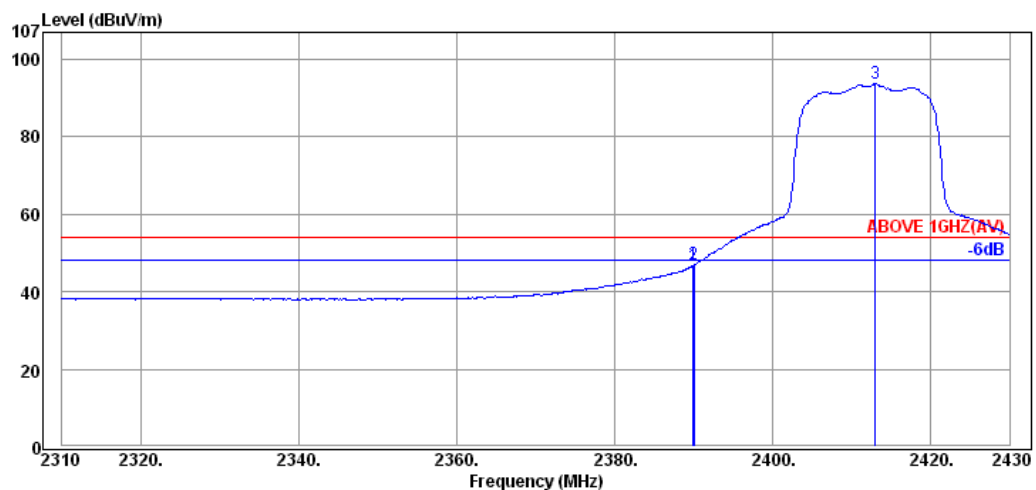
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	31.68	6.08	13.55	51.31	54.00	2.69	Average
2390.04	31.68	6.08	13.64	51.40	54.00	2.60	Average
2412.84	31.71	6.11	61.13	98.95	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

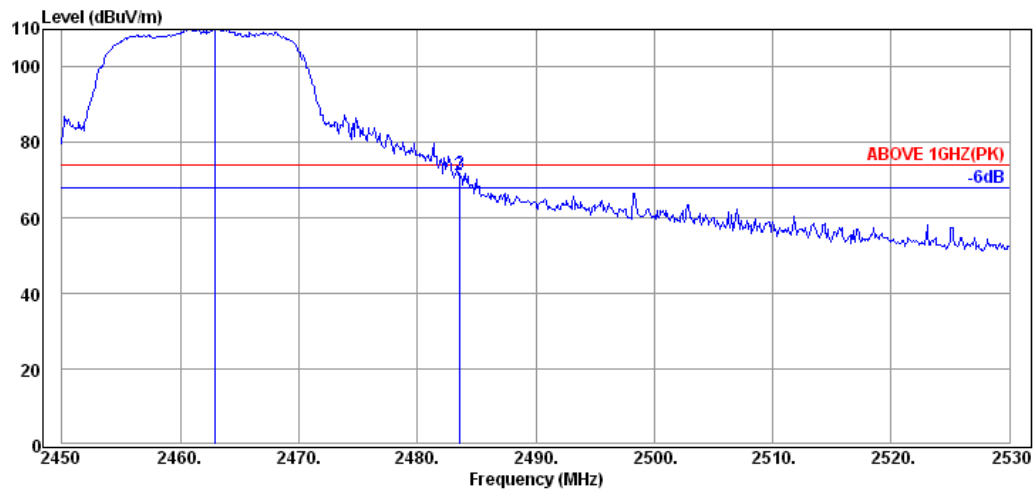
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	31.68	6.08	24.06	61.82	74.00	12.18	Peak
2390.04	31.68	6.08	22.55	60.31	74.00	13.69	Peak
2409.96	31.70	6.10	65.16	102.96	---	---	Peak



Antenna at Vertical Polarization

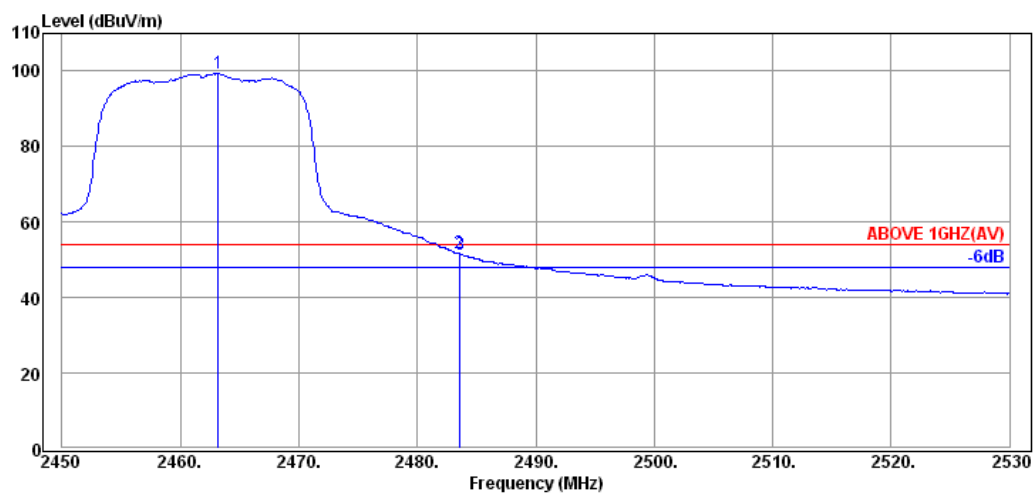
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	31.68	6.08	9.02	46.78	54.00	7.22	Average
2390.04	31.68	6.08	9.21	46.97	54.00	7.03	Average
2412.96	31.71	6.11	55.90	93.72	---	---	Average

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

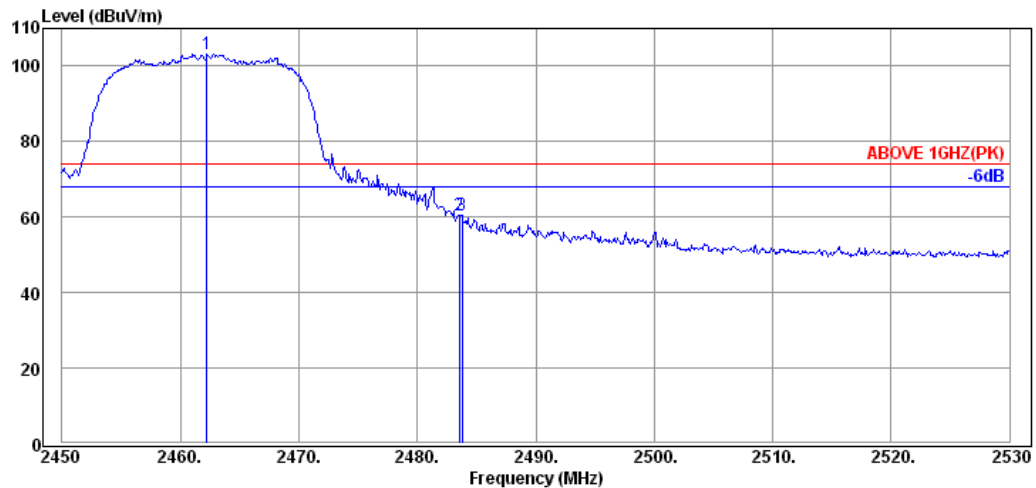
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.96	31.76	6.16	72.88	110.80	---	---	Peak
2483.52	31.78	6.19	33.64	71.61	74.00	2.39	Peak
2483.60	31.78	6.19	33.89	71.86	74.00	2.14	Peak



Antenna at Horizontal Polarization

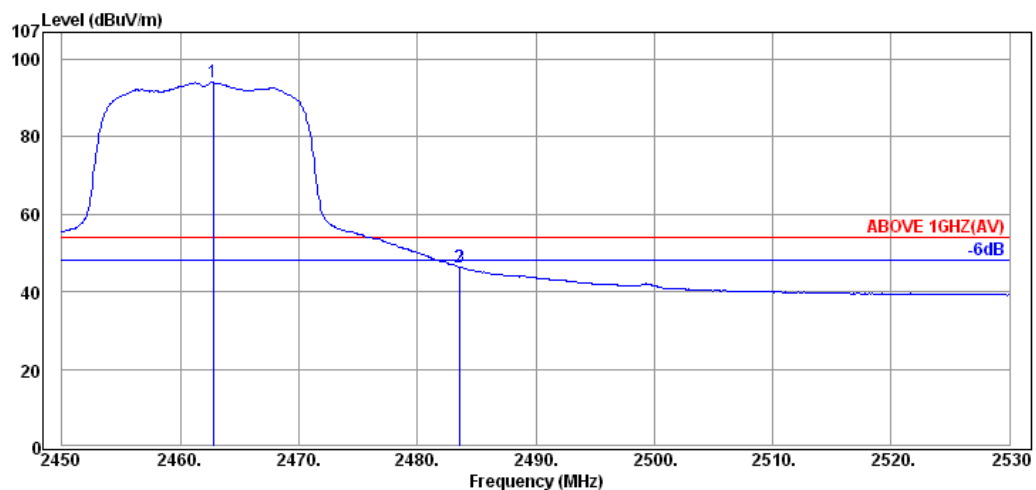
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.20	31.76	6.16	61.43	99.35	---	---	Average
2483.52	31.78	6.19	13.63	51.60	54.00	2.40	Average
2483.60	31.78	6.19	13.52	51.49	54.00	2.51	Average

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

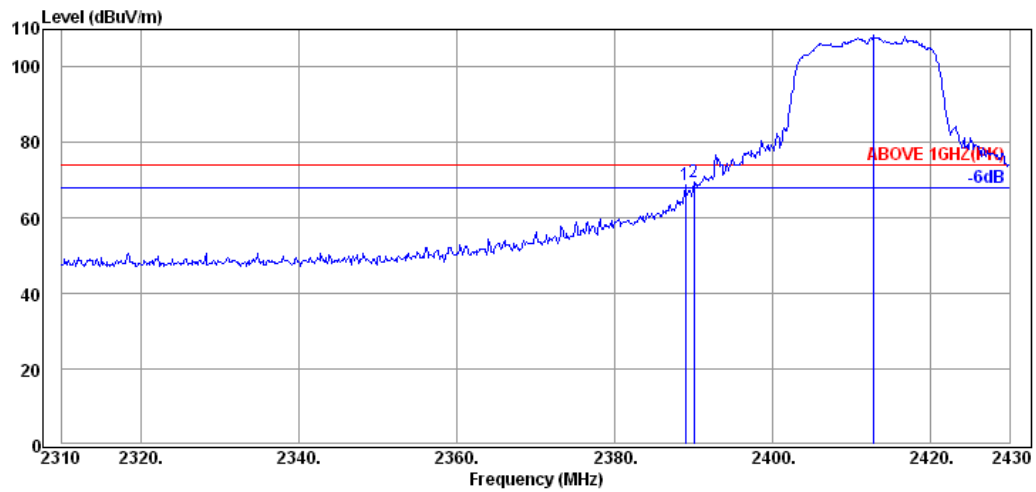
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.24	31.76	6.16	65.44	103.36	---	---	Peak
2483.52	31.78	6.19	22.49	60.46	74.00	13.54	Peak
2483.76	31.78	6.19	22.52	60.49	74.00	13.51	Peak



Antenna at Vertical Polarization

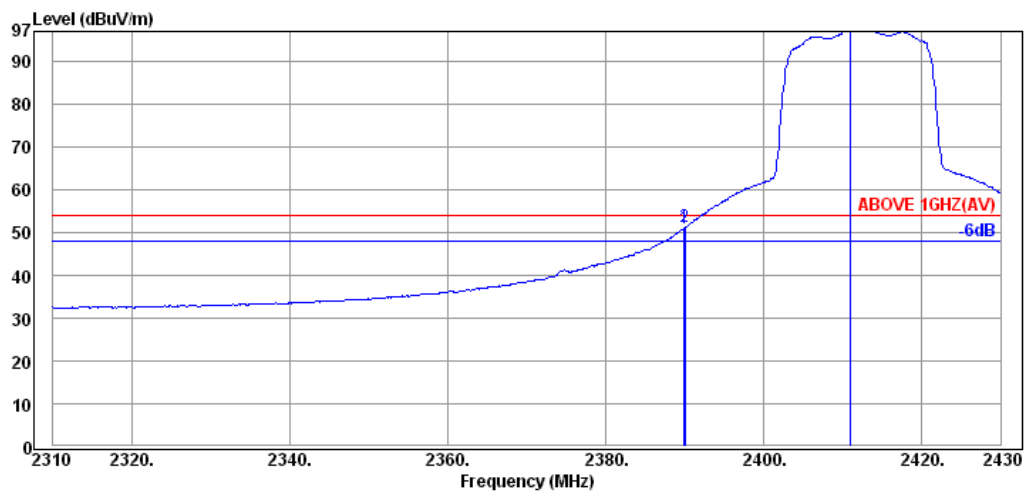
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.80	31.76	6.16	56.13	94.05	---	---	Average
2483.52	31.78	6.19	8.37	46.34	54.00	7.66	Average
2483.60	31.78	6.19	8.35	46.32	54.00	7.68	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

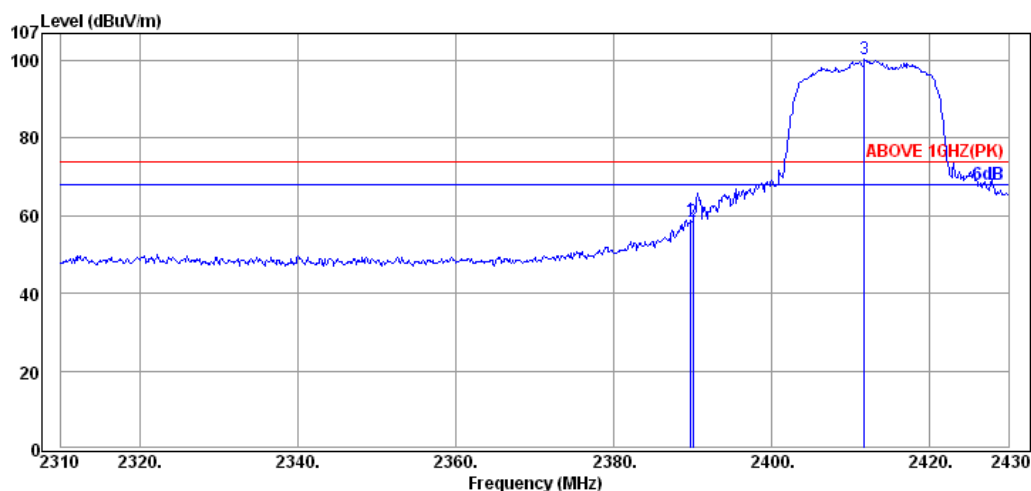
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.96	31.68	6.08	30.93	68.69	74.00	5.31	Peak
2390.04	31.68	6.08	31.90	69.66	74.00	4.34	Peak
2412.84	31.71	6.11	70.79	108.61	---	---	Peak



Antenna at Horizontal Polarization

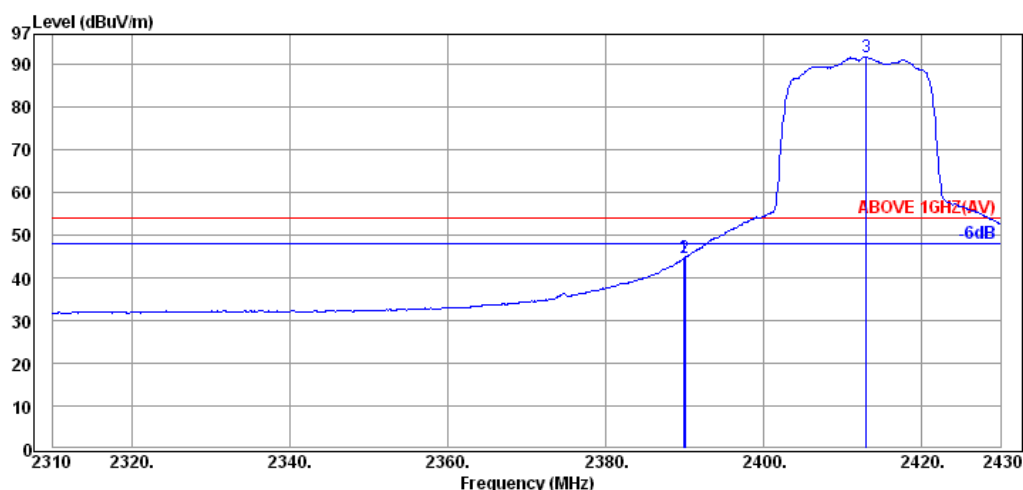
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	31.68	6.08	13.27	51.03	54.00	2.97	Average
2390.04	31.68	6.08	13.49	51.25	54.00	2.75	Average
2411.04	31.70	6.11	60.08	97.89	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

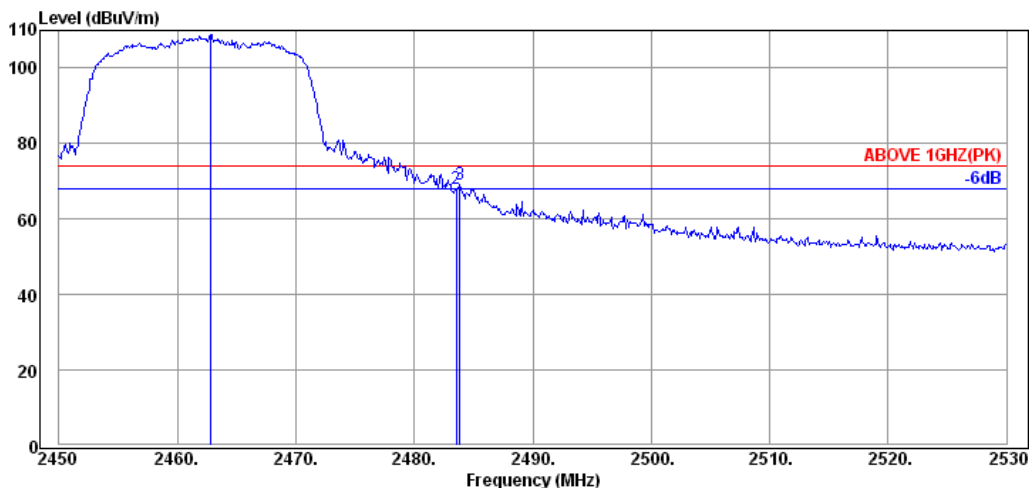
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	31.68	6.08	21.15	58.91	74.00	15.09	Peak
2390.04	31.68	6.08	20.61	58.37	74.00	15.63	Peak
2411.76	31.71	6.11	62.48	100.30	---	---	Peak



Antenna at Vertical Polarization

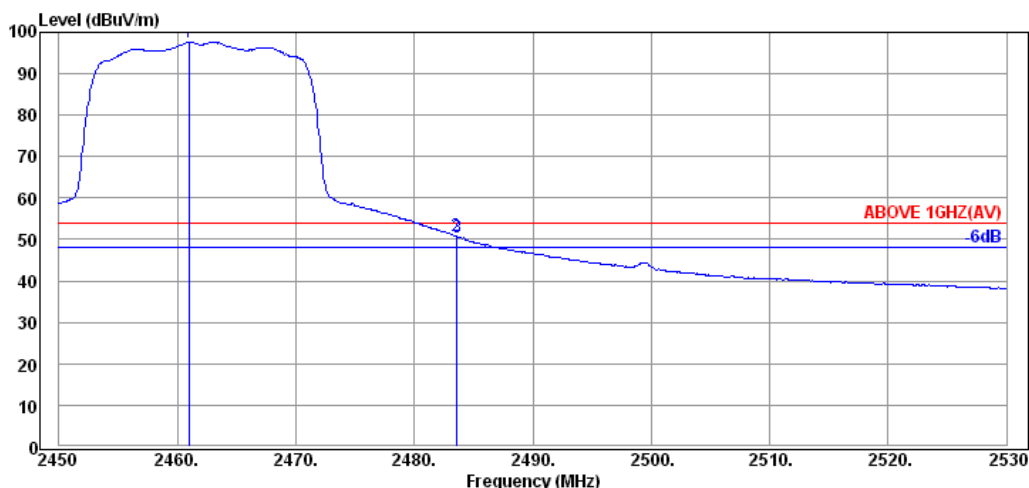
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	31.68	6.08	6.84	44.60	54.00	9.40	Average
2390.04	31.68	6.08	6.98	44.74	54.00	9.26	Average
2412.96	31.71	6.11	53.88	91.70	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

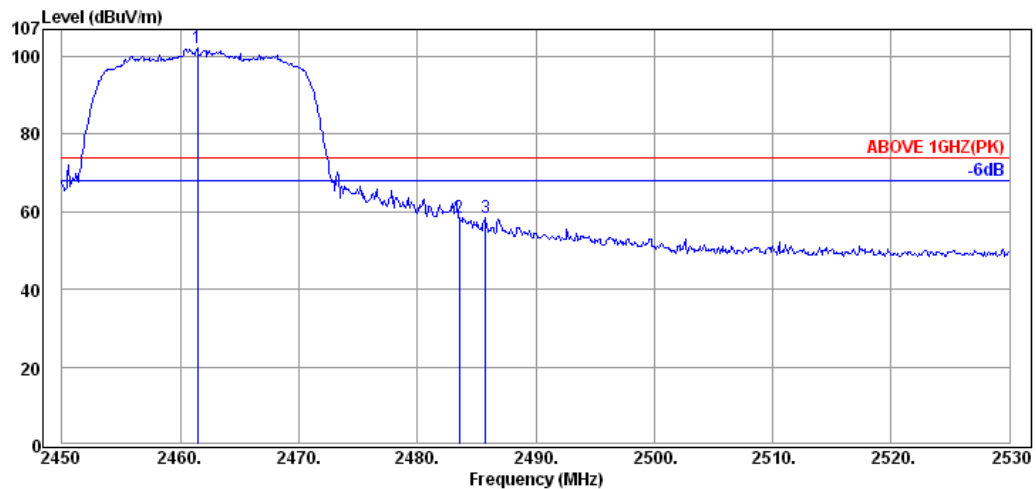
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.80	31.76	6.16	71.03	108.95	---	---	Peak
2483.52	31.78	6.19	30.07	68.04	74.00	5.96	Peak
2483.84	31.78	6.19	31.03	69.00	74.00	5.00	Peak



Antenna at Horizontal Polarization

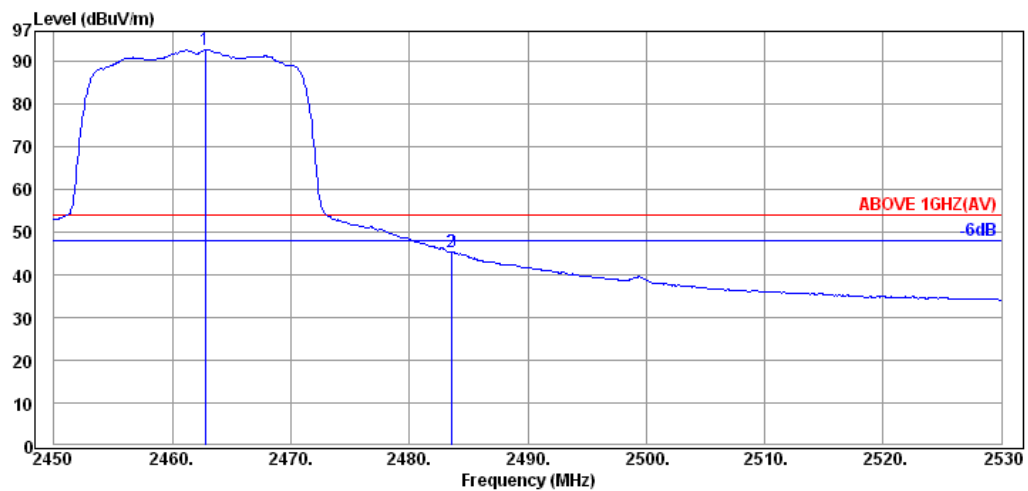
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.96	31.76	6.16	59.76	97.68	---	---	Average
2483.52	31.78	6.19	12.78	50.75	54.00	3.25	Average
2483.60	31.78	6.19	12.68	50.65	54.00	3.35	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.44	31.76	6.16	64.18	102.10	---	---	Peak
2483.52	31.78	6.19	20.47	58.44	74.00	15.56	Peak
2485.76	31.78	6.19	20.63	58.60	74.00	15.40	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.80	31.76	6.16	54.80	92.72	---	---	Average
2483.52	31.78	6.19	7.31	45.28	54.00	8.72	Average
2483.60	31.78	6.19	7.37	45.34	54.00	8.66	Average

5.5.3. Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2600.00	31.91	6.35	11.16	49.42	54.00	4.58	Peak
4872.00	33.85	9.09	8.53	51.47	54.00	2.53	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2600.00	31.91	6.35	10.57	48.83	54.00	5.17	Peak
4872.00	33.85	9.09	4.03	46.97	54.00	7.03	Peak

Mode	802.11g	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2604.00	32.42	6.35	7.86	46.63	54.00	7.37	Peak
2604.00	32.42	6.35	15.66	54.43	74.00	19.57	Average

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2604.00	31.91	6.35	15.55	53.81	54.00	0.19	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
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Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2604.00	31.91	6.35	15.38	53.64	54.00	16.53	Peak

Antenna at Vertical Polarization

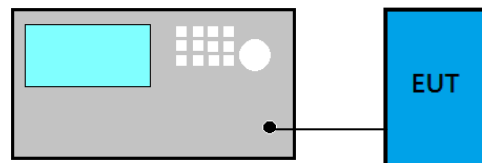
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2604.00	31.91	6.35	14.08	52.34	54.00	1.66	Peak

5.5.4. Emissions in Non-restricted Frequency Bands

Pursuant to KDB 558074 D01 v03r03 that emission levels below the 15.209/RSS-Gen Section 8.9 table 4 general radiated emissions limits is not required.

6. 6dB BANDWIDTH MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Specification Limits

The minimum 6dB bandwidth shall be at least 500kHz.

6.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r03:

■ Option 2

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

6.4. Test Results

Please refer to Appendix A

7. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

7.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r03:

■ PKPM1 Peak power meter method:

EUT is connected to power sensor and record the maximum output power.

□ Method AVGPM (Measurement using an RF average power meter):

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.5 is < 98%.

□ Method AVGSA-2 (Spectrum channel power)

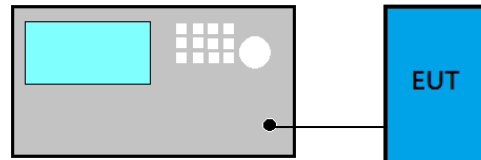
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.5 is < 98%.

7.4. Test Results

Please refer to Appendix A

8. EMISSION LIMITATIONS MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

8.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r03:

■ Reference Level

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max PSD as reference level.

■ **Emission Level Measurement**

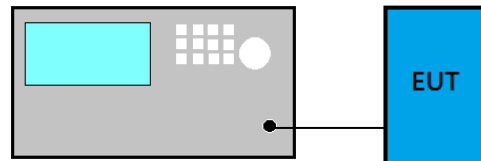
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max level.

8.4. Test Results

Please refer to Appendix A

9. POWER SPECTRAL DENSITY

9.1. Block Diagram of Test Setup



9.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

9.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r03:

■ Method PKPSD (peak PSD)

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4) Set the VBW $\geq 3 \times \text{RBW}$.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize.
- (9) Use the peak marker function to determine the maximum amplitude level.
- (10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

□ Method AVGPSD-2

- (1) Using peak PSD procedure step 1 to step 4.
- (2) Detector = RMS detector
- (3) Sweep time = auto couple
- (4) Trace mode = trace averaging over a minimum of 100 traces
- (5) Use the peak marker function to determine the maximum amplitude level.
- (6) Duty cycle factor is added when duty cycle presented in section 3.5 < 98%.
- (7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4. Test Results

Please refer to Appendix A

10.DEVIATION TO TEST SPECIFICATIONS

【NONE】



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APPENDIX A

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APPENDIX A

TEST PLOTS

(Model: LC10S-B)

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A.1 6dB BANDWIDTH MEASUREMENT

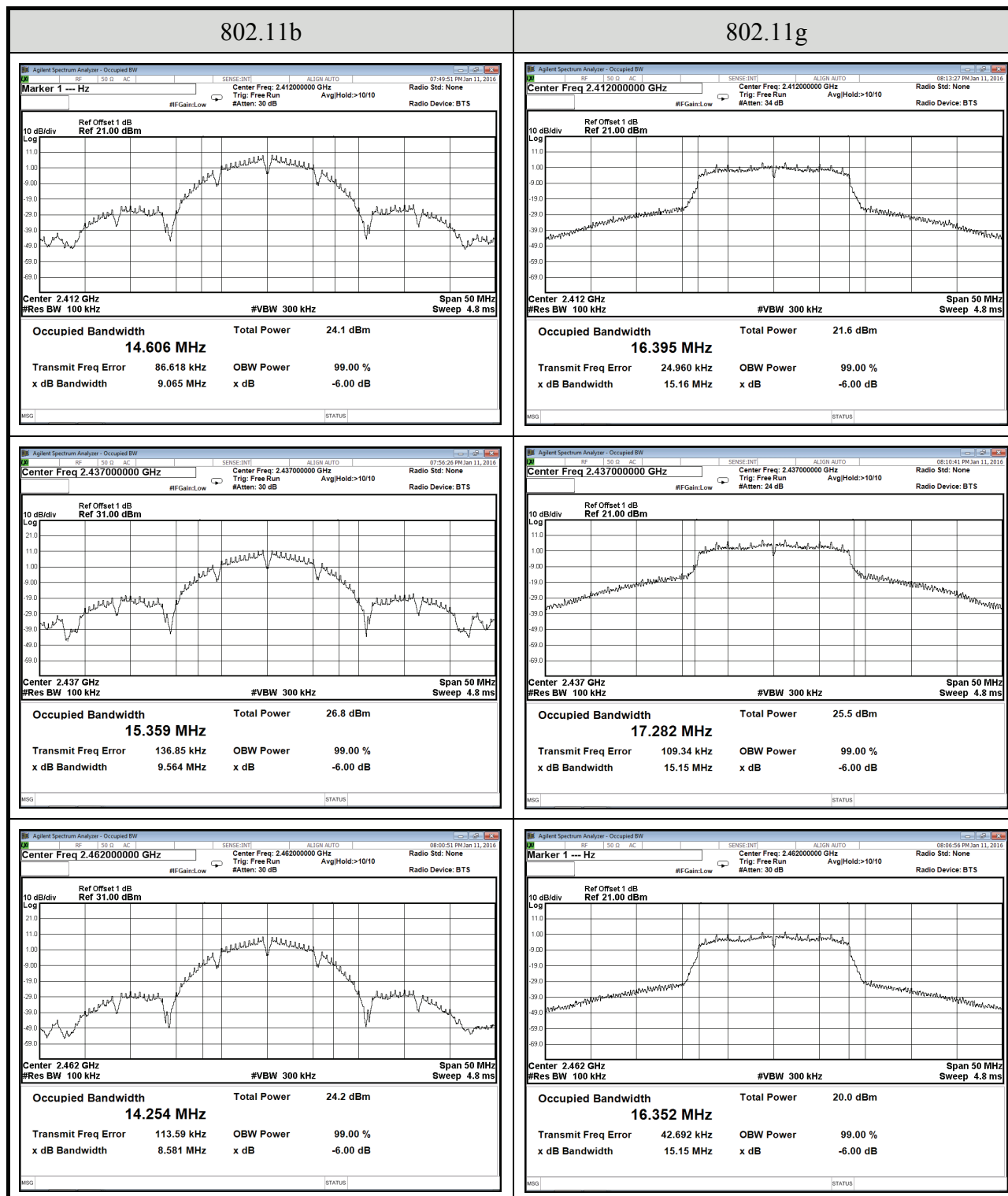
Test Date	2016/01/11	Temp./Hum.	25°C/42%
Test Voltage	DC 12V		

A.1.1 6dB Bandwidth Result

Modulation Type	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11b	2412	9.065	>500kHz
	2437	9.564	
	2462	8.581	
802.11g	2412	15.16	
	2437	15.15	
	2462	15.15	
802.11n-HT20	2412	15.16	
	2437	15.15	
	2462	15.16	

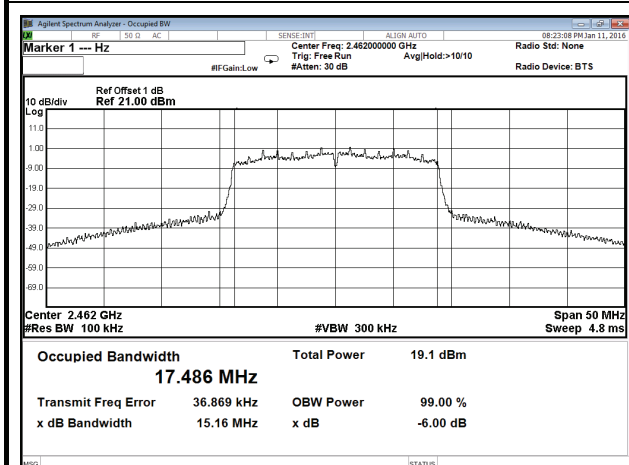
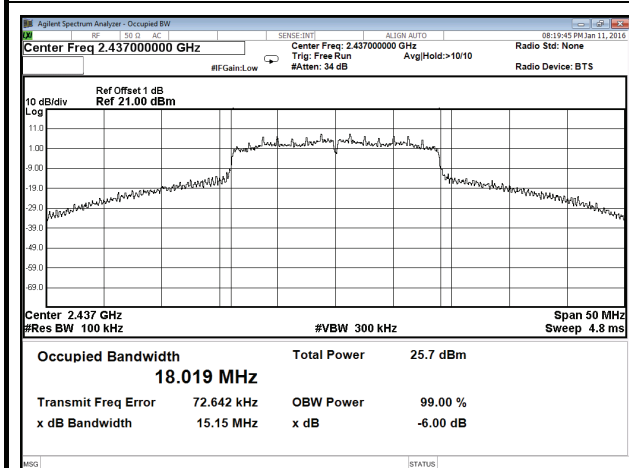
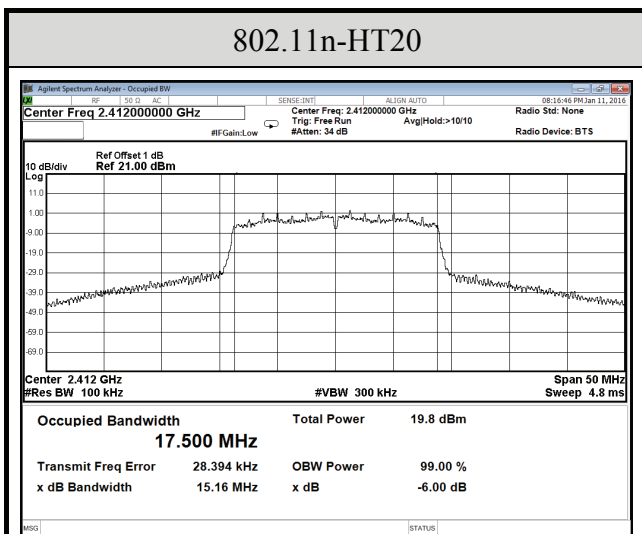
Note: The results have been included cable loss.

A.1.2 Measurement Plots



Note: The results have been included cable loss.

802.11n-HT20



Note: All results have been included cable loss.

A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

Test Date	2016/01/22	Temp./Hum.	25°C/42%
Test Voltage	DC 12V		

A.2.1 Peak Output Power

Modulation Type	Centre Frequency (MHz)	Maximum Peak Output Power		Antenna Gain (dBi)	Peak Output Power (E.I.R.P.)		Limit
		(dBm)	(W)		(dBm)	(W)	
802.11b	2412	19.34	0.085901	2.9	22.24	0.167494	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2437	18.15	0.065313		21.05	0.127350	
	2462	19.55	0.090157		22.45	0.175792	
802.11g	2412	22.91	0.195434		25.81	0.381066	
	2437	23.05	0.201837		25.95	0.393550	
	2462	22.04	0.159956		24.94	0.311889	
802.11n-HT20	2412	22.30	0.169824		25.20	0.331131	
	2437	22.65	0.184077		25.55	0.358922	
	2462	21.43	0.138995		24.33	0.271019	

Note: The results have been included cable loss.

A.2.2 Average Output Power (Reporting only)

Modulation Type	Centre Frequency (MHz)	Maximum Average Output Power		10log (1/X)	Antenna Gain (dBi)	Average Output Power (E.I.R.P.)	
		(dBm)	(W)			(dBm)	(W)
802.11b	2412	16.88	0.048753	0.04	2.9	19.82	0.095940
	2437	18.29	0.067453			21.23	0.132739
	2462	17.06	0.050816			20.00	0.100000
802.11g	2412	14.18	0.026182	0.25		17.33	0.054075
	2437	14.67	0.029309			17.82	0.060534
	2462	12.61	0.018239			15.76	0.037670
802.11n-HT20	2412	12.34	0.017140	0.27		15.51	0.035563
	2437	14.60	0.028840			17.77	0.059841
	2462	11.54	0.014256			14.71	0.029580

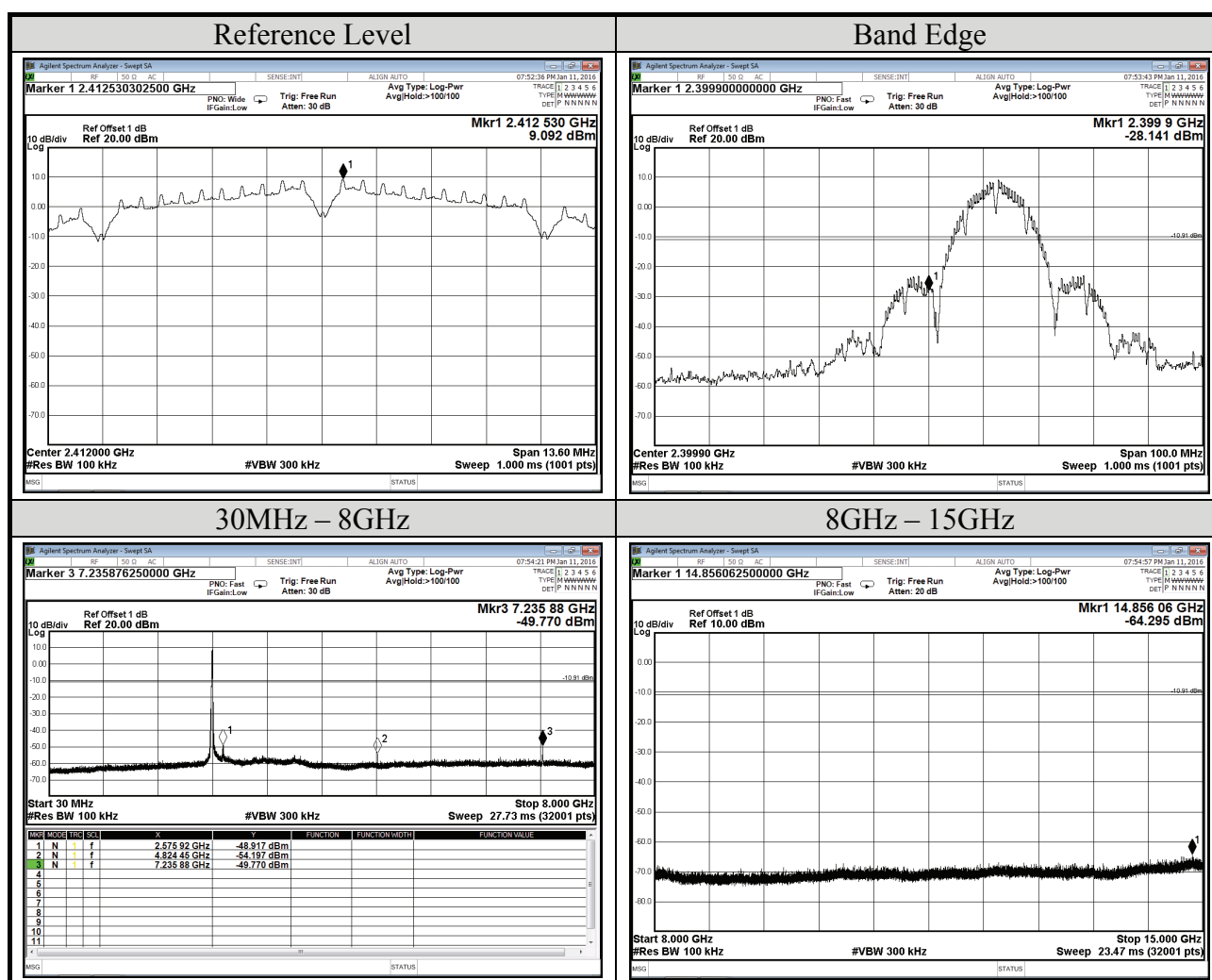
Note: The results have been included cable loss presented in section.

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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

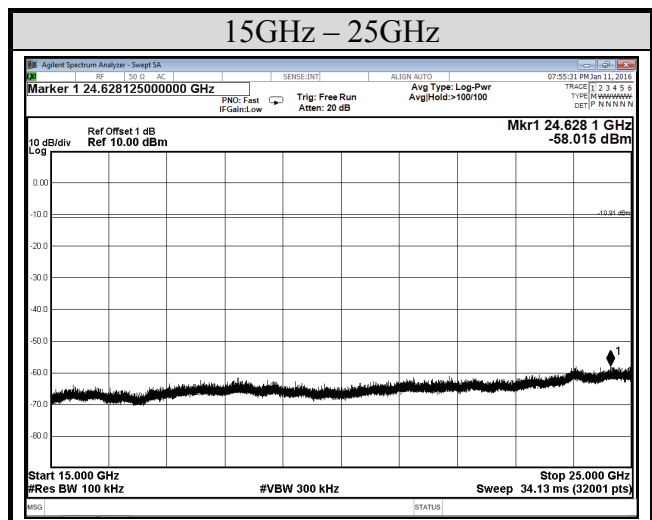
Tel: +886 2 26099301
Fax: +886 2 26099303

A.3 EMISSION LIMITATIONS MEASUREMENT

Test Date	2016/01/11	Temp./Hum.	25°C/42%
Mode	802.11b	Frequency	TX 2412MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)	0		



Note: All results have been included cable loss and simultaneous factor.



Note: All results have been included cable loss and simultaneous factor.

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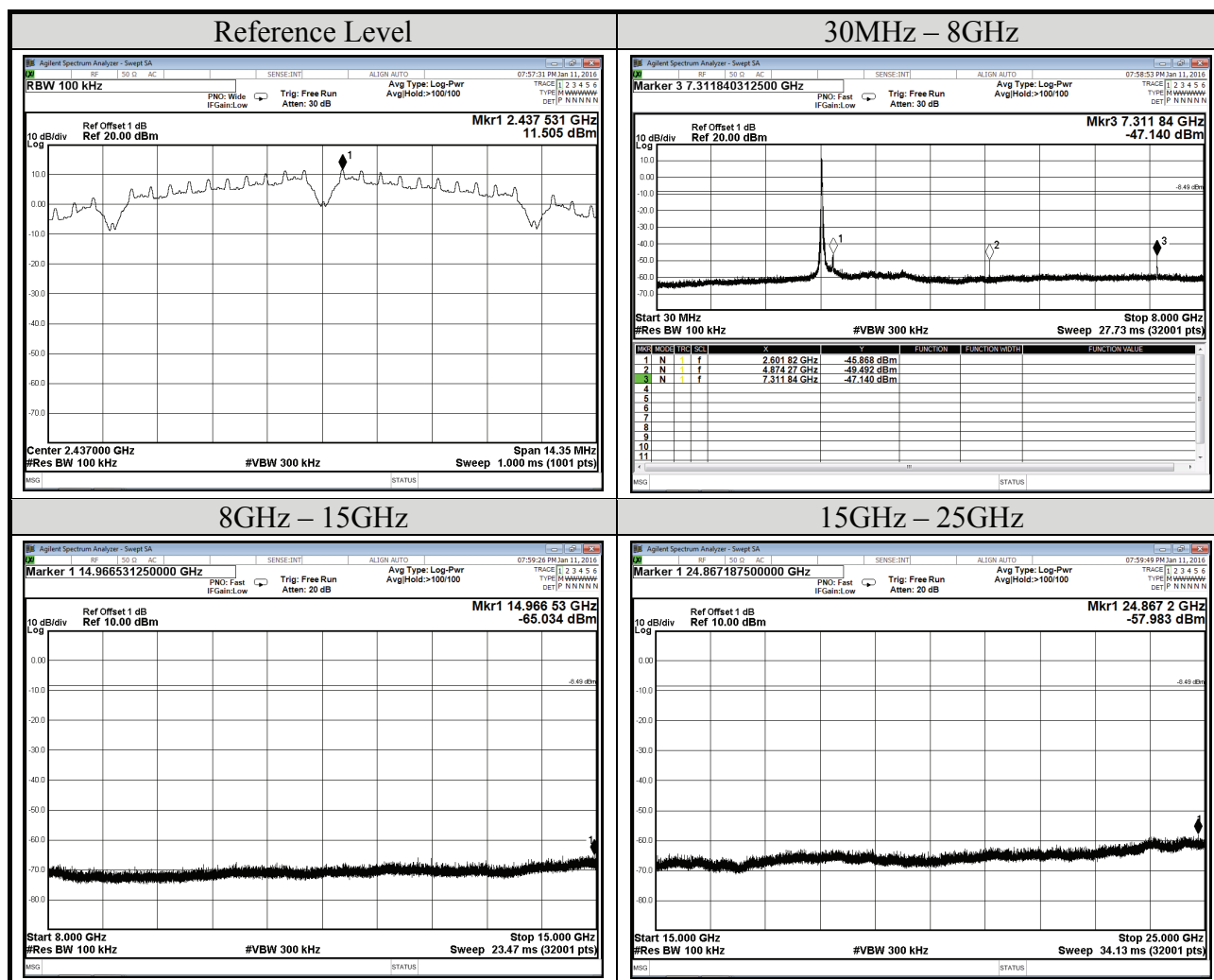
No. 53-11, Dingfu, Linkou, Dist.,

New Taipei City 244, Taiwan

Tel: +886 2 26099301

Fax: +886 2 26099303

Test Date	2016/01/11	Temp./Hum.	25°C/42%
Mode	802.11b	Frequency	TX 2437MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)		0	



Note: All results have been included cable loss and simultaneous factor.

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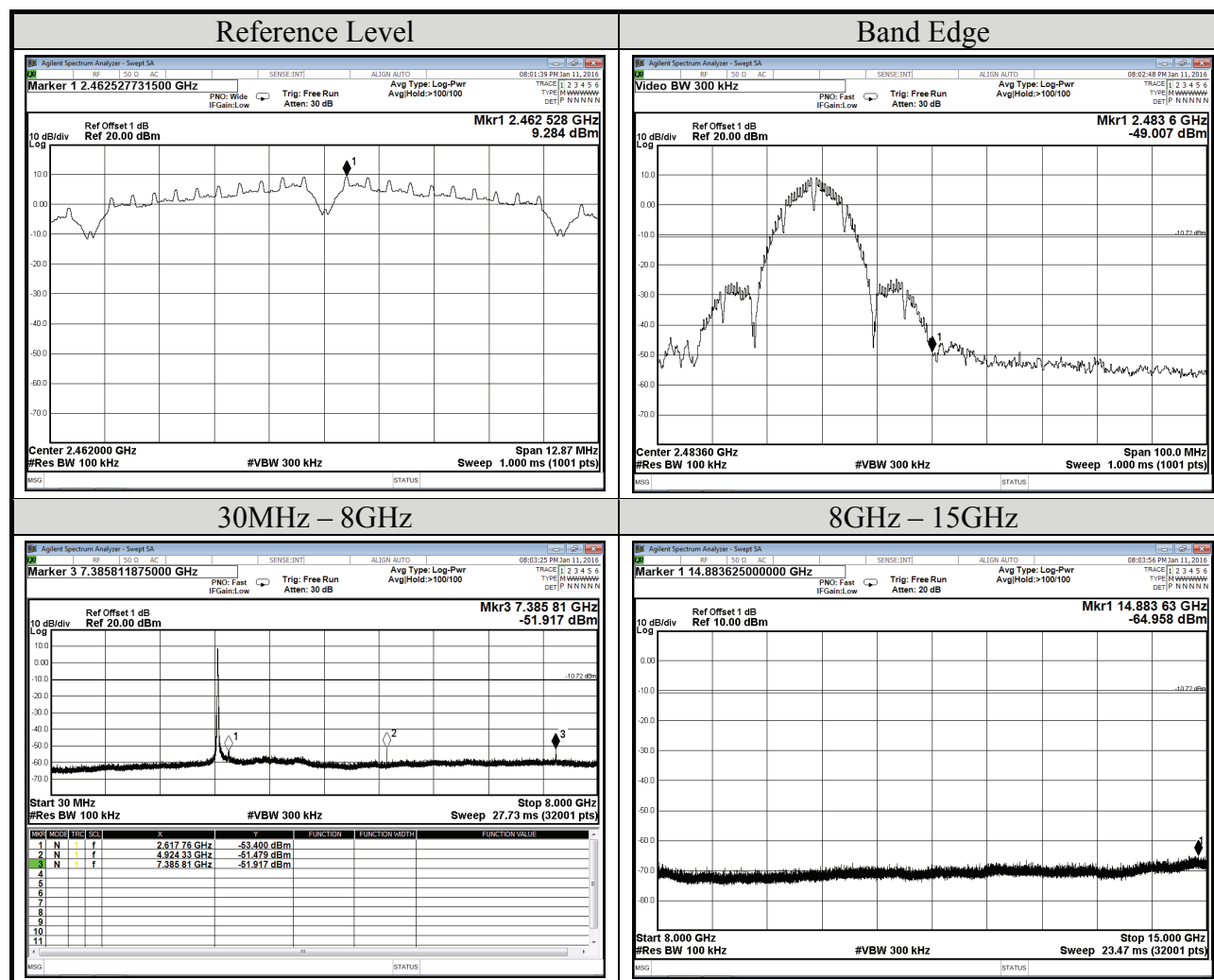
No. 53-11, Dingfu, Linkou, Dist.,

New Taipei City 244, Taiwan

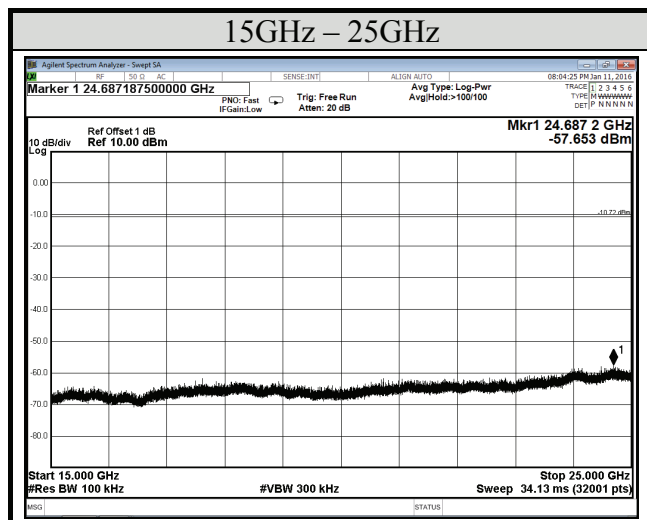
Tel: +886 2 26099301

Fax: +886 2 26099303

Test Date	2016/01/11	Temp./Hum.	25°C/42%
Mode	802.11b	Frequency	TX 2462MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)			0

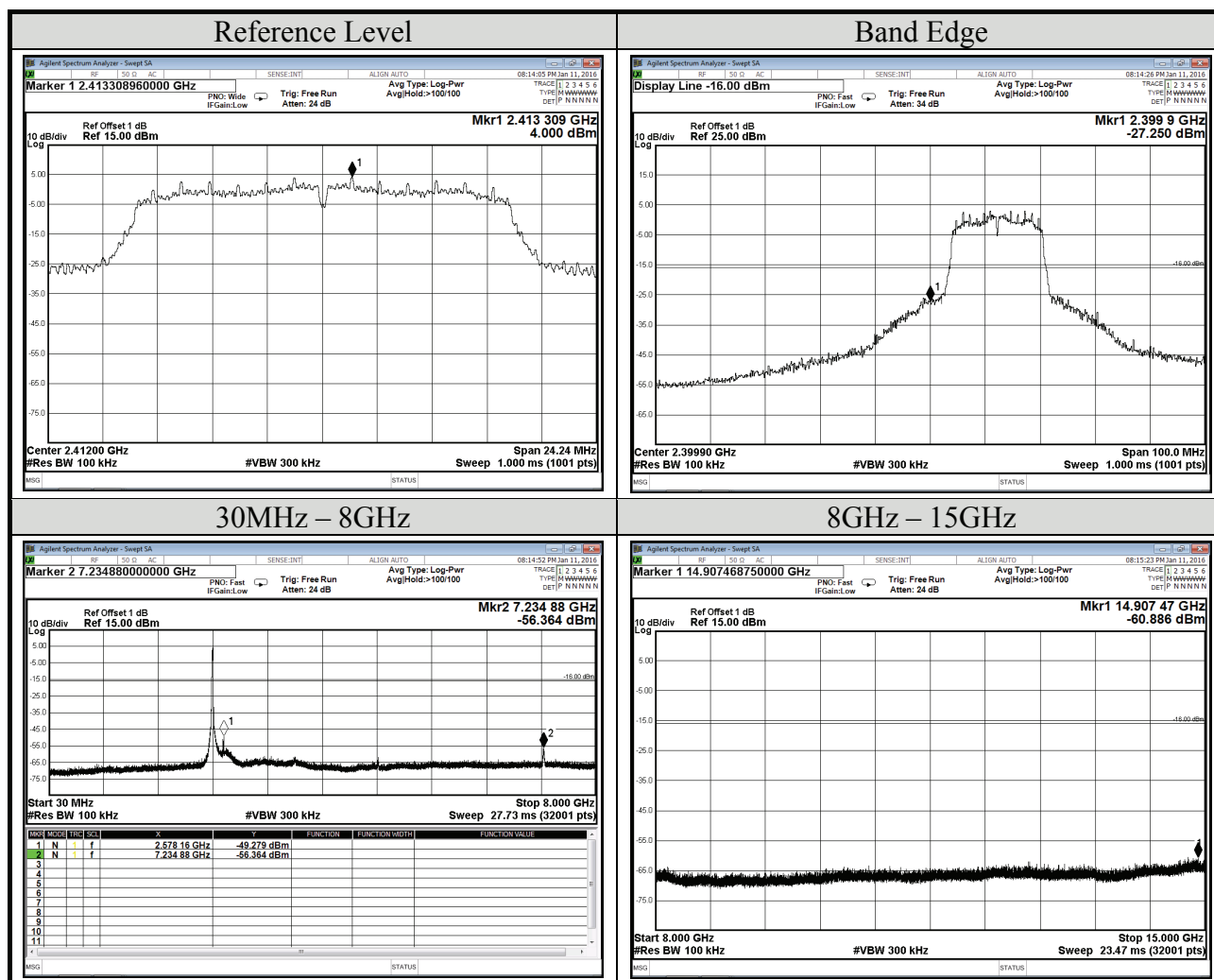


Note: All results have been included cable loss and simultaneous factor.

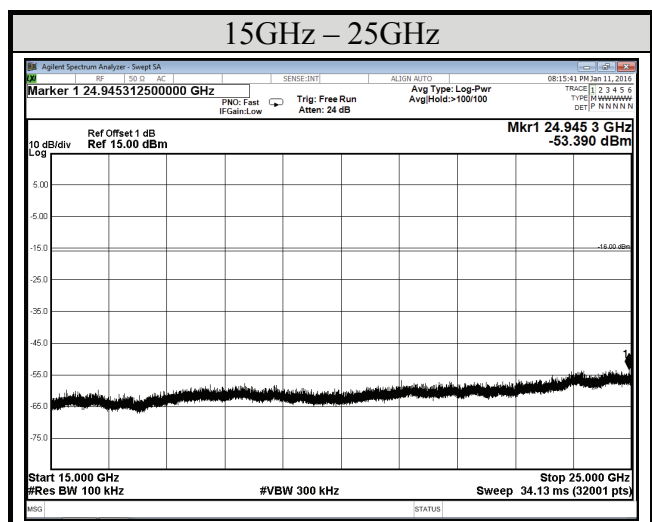


Note: All results have been included cable loss and simultaneous factor.

Test Date	2016/01/11	Temp./Hum.	25°C/42%
Mode	802.11g	Frequency	TX 2412MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)		0	



Note: All results have been included cable loss and simultaneous factor.



Note: All results have been included cable loss and simultaneous factor.

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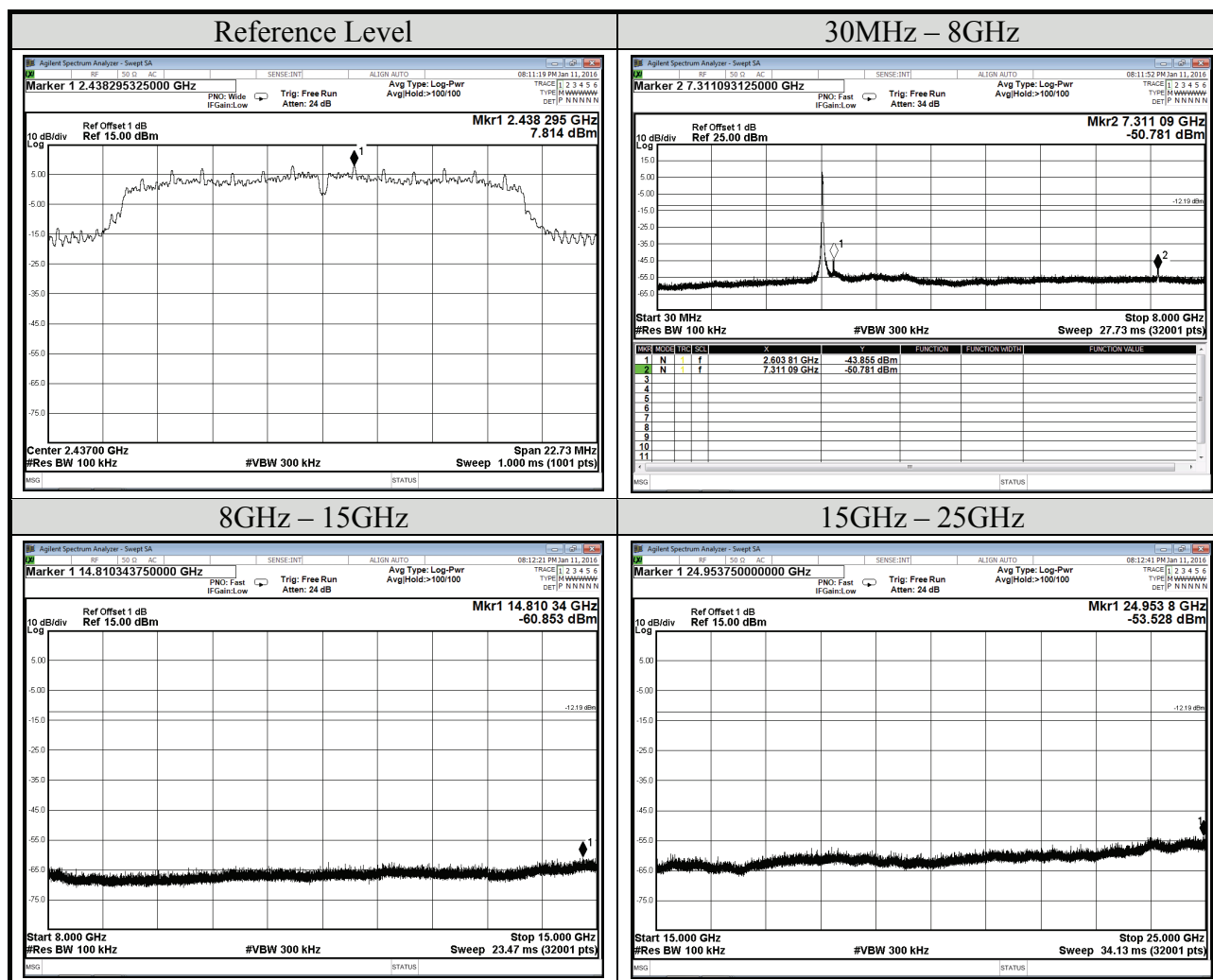
No. 53-11, Dingfu, Linkou, Dist.,

New Taipei City 244, Taiwan

Tel: +886 2 26099301

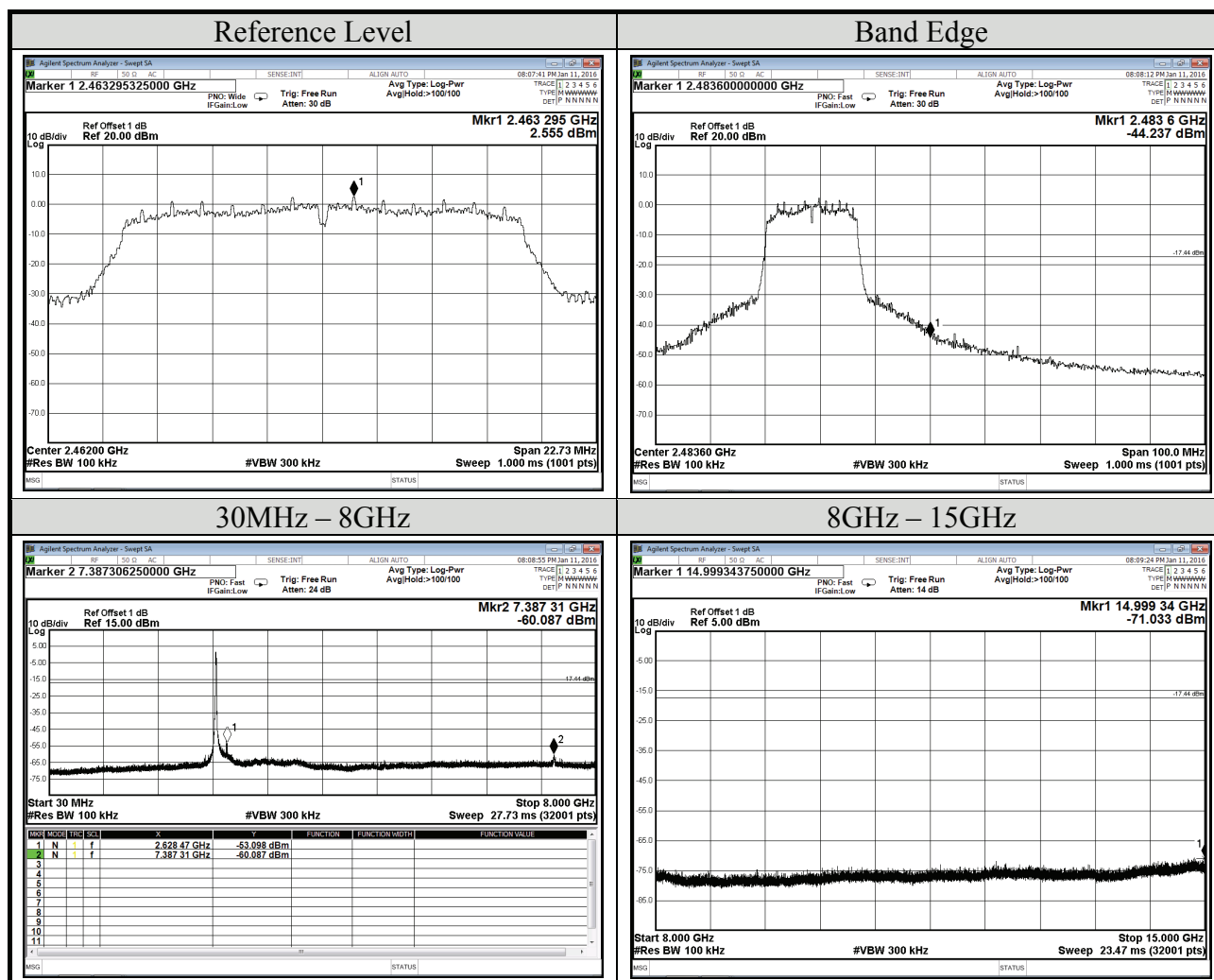
Fax: +886 2 26099303

Test Date	2016/01/11	Temp./Hum.	25°C/42%
Mode	802.11g	Frequency	TX 2437MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)			0

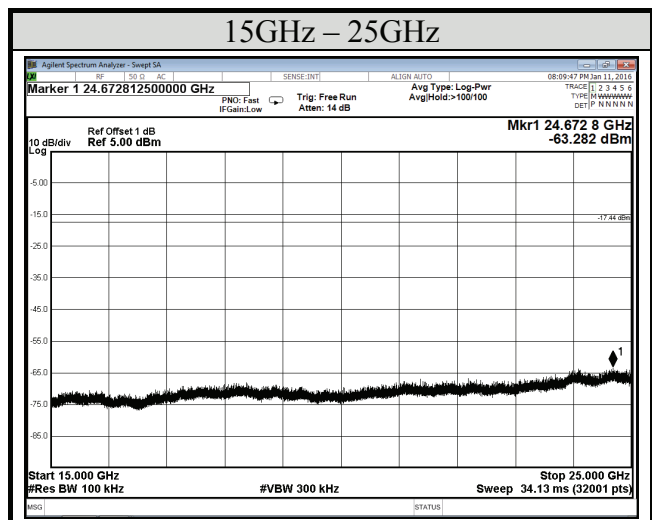


Note: All results have been included cable loss and simultaneous factor.

Test Date	2016/01/11	Temp./Hum.	25°C/42%
Mode	802.11g	Frequency	TX 2462MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)		0	

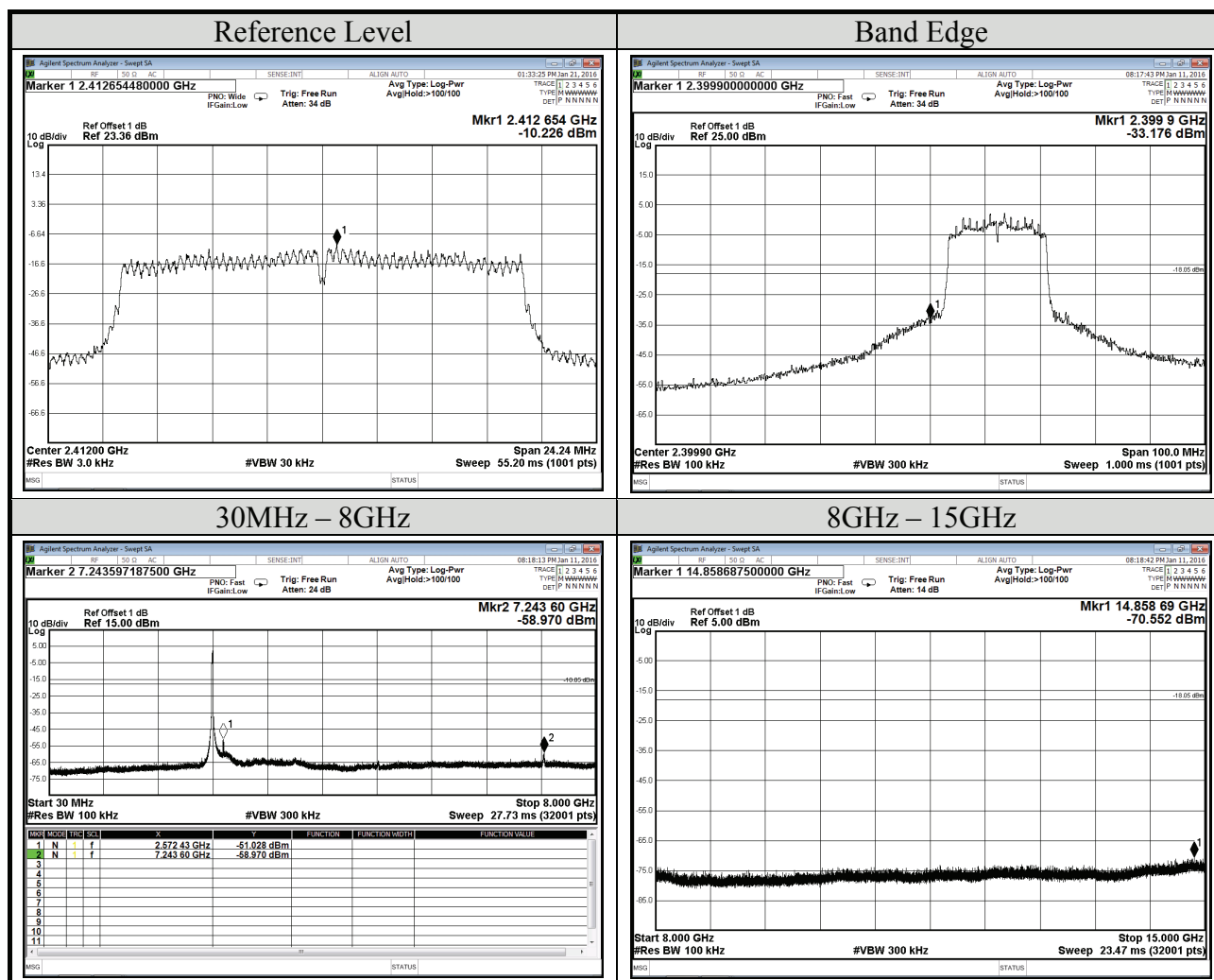


Note: All results have been included cable loss and simultaneous factor.

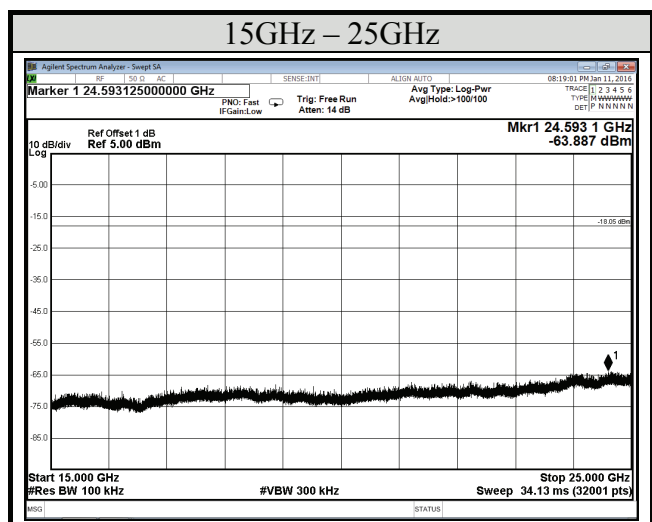


Note: All results have been included cable loss and simultaneous factor.

Test Date	2016/01/11 ~ 21	Temp./Hum.	25°C/42%
Mode	802.11n-HT20	Frequency	TX 2412MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: “n” is antenna number)		0	

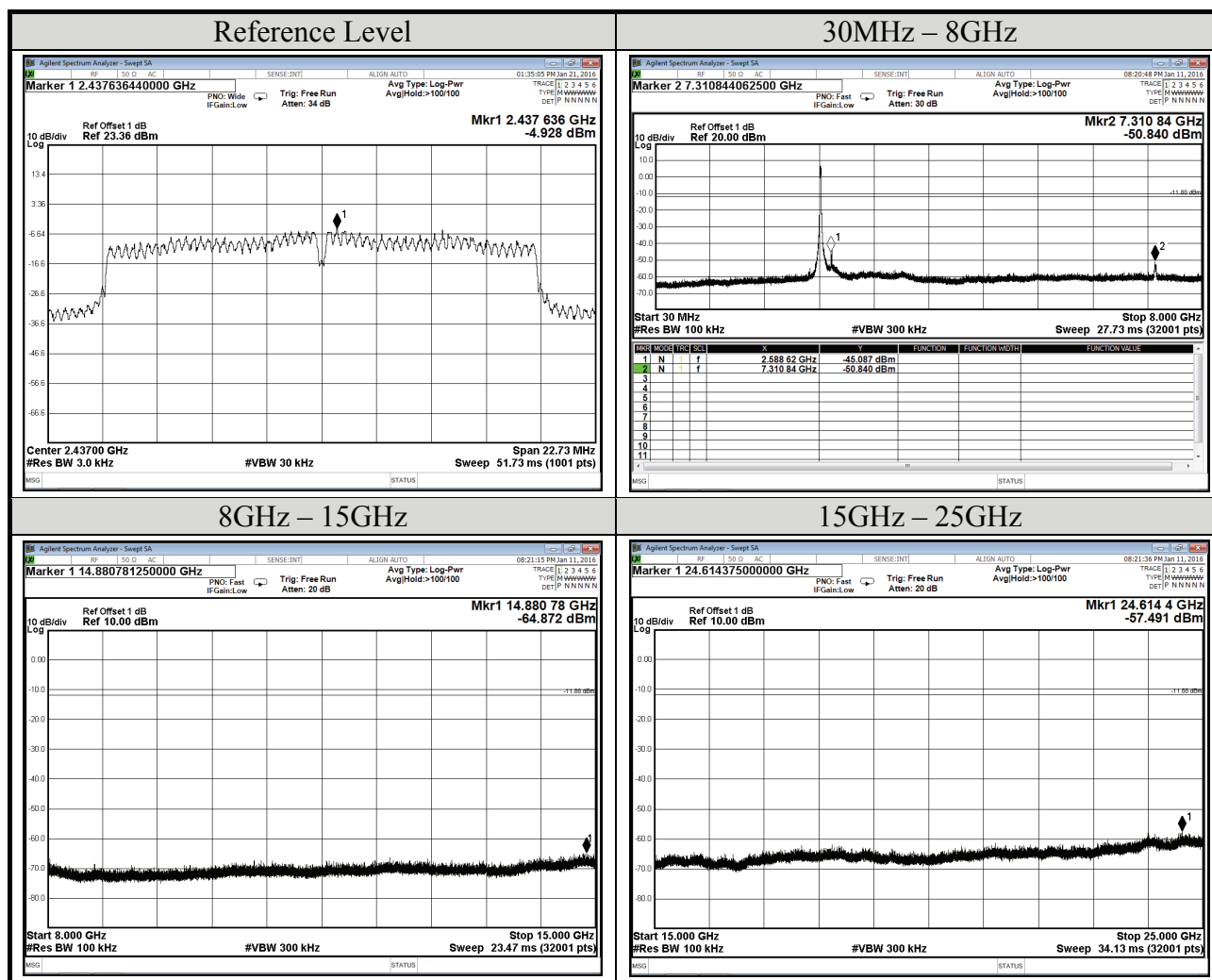


Note: All results have been included cable loss and simultaneous factor.



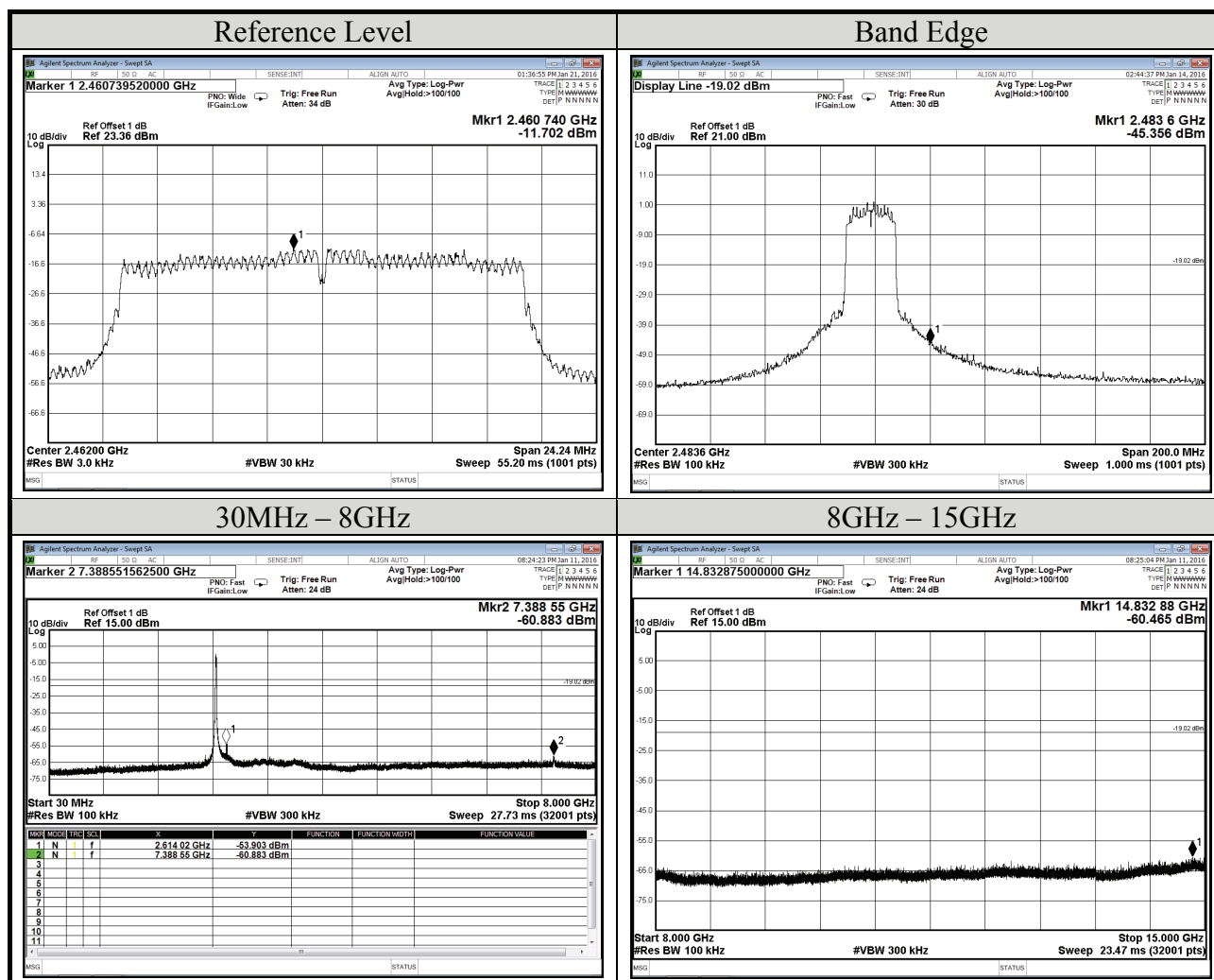
Note: All results have been included cable loss and simultaneous factor.

Test Date	2016/01/11 ~ 21	Temp./Hum.	25°C/42%
Mode	802.11n-HT20	Frequency	TX 2437MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: “n” is antenna number)		0	

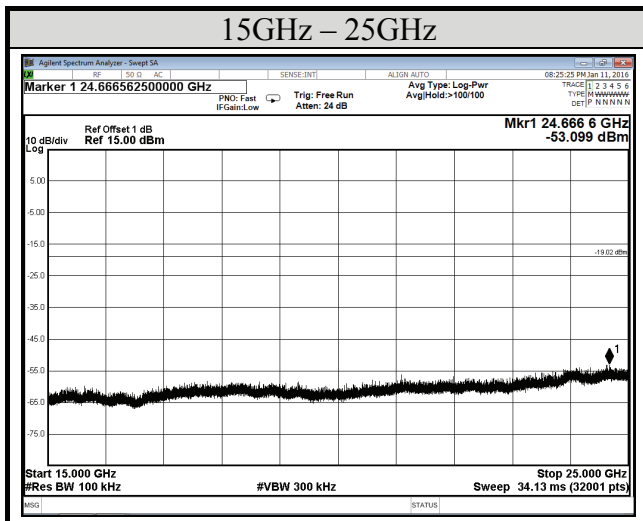


Note: All results have been included cable loss and simultaneous factor.

Test Date	2016/01/11 ~ 21	Temp./Hum.	25°C/42%
Mode	802.11n-HT20	Frequency	TX 2462MHz
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: “n” is antenna number)		0	



Note: All results have been included cable loss and simultaneous factor.



Note: All results have been included cable loss and simultaneous factor.

A.4 POWER SPECTRAL DENSITY

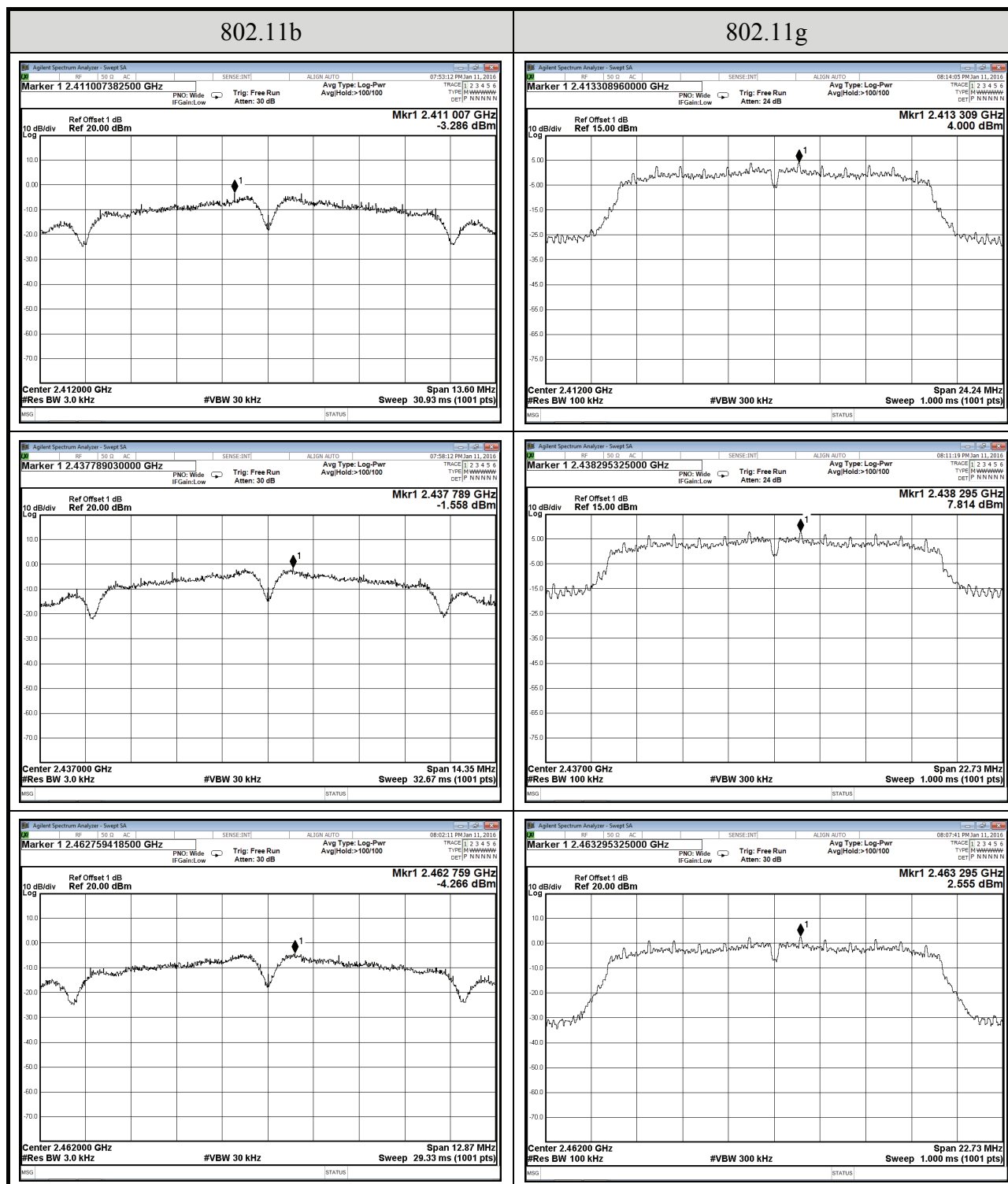
Test Date	2016/01/11 ~ 21	Temp./Hum.	25°C/42%
Test Voltage	DC 12V		
Simultaneous 10 log(n) (Note: "n" is antenna number)	0		

A.4.1 Power Spectral Density Result

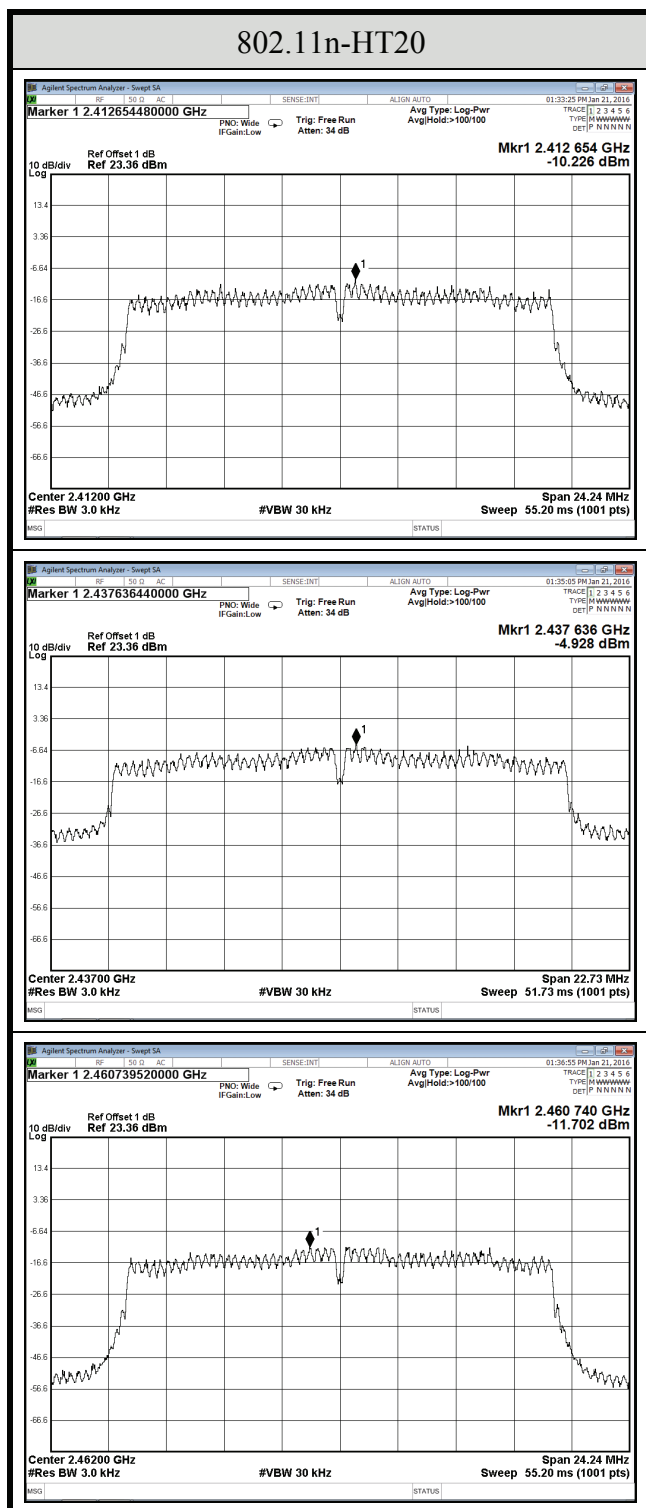
Modulation Type	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	-3.286	< 8 dBm/3kHz
	2437	-1.558	
	2462	-4.266	
802.11g	2412	4.000	
	2437	7.814	
	2462	2.555	
802.11n-HT20	2412	-10.226	
	2437	-4.298	
	2462	-11.702	

Note: All results have been included cable loss and simultaneous factor.

A.4.2 Measurement Plots



Note: All results have been included cable loss and simultaneous factor.



Note: All results have been included cable loss and simultaneous factor.