

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No...... : MTEB26030171-R1

FCC ID..... : 2BVIB-K5

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Date of issue..... : Mar.20,2026

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Address..... : East A, 1/F., New Aolin Factory Buiding, Langshan Erlu, North Area,
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China

Applicant's name..... : JAE ELECTRONICS COPT.LTD

Address..... : Room 501, 4th & 5th Floors, Building A, No.4 Xingde East Road,
Dongjiang High-Tech Industrial Park, Zhongkai High-Tech Zone,
Huizhou City, Guangdong, China

Test specification..... :

Standard..... : FCC Part 15.247

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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Test item description..... : tablet computer

Trade Mark..... : N/A

Model/Type reference..... : K5

Listed Models : K10, K8, K2, A10, A10Pro, A11, A11Pro, A8, A8Pro

Modulation Type..... : b: DSSS

g/n: OFDM

Operation Frequency..... : From 2412MHz~2462MHz

Rating..... : DC 3.8V by Battery

DC 5V by USB Port

Hardware version..... : V.0

Software version : V.0

Result..... : PASS

TEST REPORT

Equipment under Test	:	tablet computer
Model /Type	:	K5
Listed Models	:	K10, K8, K2, A10, A10Pro, A11, A11Pro, A8, A8Pro
Remark		Use K5 for all tests. Only the model name is different.while other designs are the same.Internal electronic components, circuit layout and wiring are consistent.
Applicant	:	JAE ELECTRONICS COPT.LTD
Address	:	Room 501, 4th & 5th Floors, Building A, No.4 Xingde East Road, Dongjiang High-Tech Industrial Park, Zhongkai High-Tech Zone, Huizhou City, Guangdong, China
Manufacturer	:	JAE ELECTRONICS COPT.LTD
Address	:	Room 501, 4th & 5th Floors, Building A, No.4 Xingde East Road, Dongjiang High-Tech Industrial Park, Zhongkai High-Tech Zone, Huizhou City, Guangdong, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2026.03.19	Initial Issue	Ekaterina Zhang

2 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

[ANSI C63.10-2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 v05r02](#): Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

3 SUMMARY

3.1 General Remarks

Date of receipt of test sample	:	2026.03.16
Testing commenced on	:	2026.03.18
Testing concluded on	:	2026.03.19

3.2 Product Description

Product Name:	tablet computer
Model/Type reference:	K5
Power Supply:	DC 3.8V by Battery DC 5V by USB Port
Testing sample ID:	MTYP12350
WIFI :	
Supported type:	802.11b/802.11g/802.11n(H20)/802.11n(H40)
Modulation:	b: DSSS g/n: OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11n(H40): 7
Channel separation:	5MHz
Antenna type:	PCB antenna
Antenna gain:	0dBi

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 5V by USB Port/DC 3.8V by Battery

3.4 Short description of the Equipment under Test (EUT)

This is a tablet computer For more details, refer to the user's manual of the EUT.

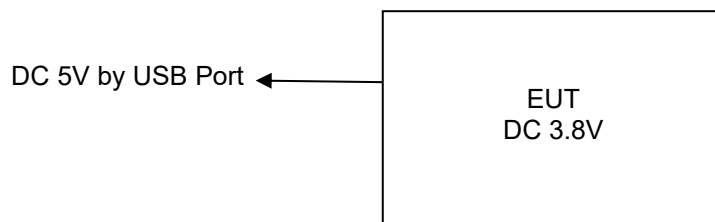
3.5 EUT operation mode

The application provider specific test software(AT command) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

3.6 Block Diagram of Test Setup



3.7 Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	/	/	/	/
AE 2	/	/	/	/

3.9 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	---	PCB antenna	2.4 – 2.5 GHz	---	0dBi
Antenna 2					

*: declared by the applicant.

3.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2BVIB-K5** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3.11 Modifications

No modifications were implemented to meet testing criteria.

3.12 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

○ - supplied by the manufacturer

● - Supplied by the lab

●	ADAPTER	M/N:	MDY-08-EH
		Manufacturer:	Xiaomi Communications Co.,Ltd

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

East A, 1/F., New Aolin Factory Building, Langshan Erlu, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

Temperature:	21.9°C
Humidity:	56.0%
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing:

Temperature:	21.9°C
Humidity:	56.0%
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	21.9°C
Humidity:	56.0%
Atmospheric pressure:	950-1050mbar

4.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Conducted Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	6.5Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	6.5Mbps	3/9

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)
6dB Bandwidth	/	5%	(1)
Maximum Conducted Output Power	/	0.80dB	(1)
Spurious RF Conducted Emission	/	1.6dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Equipments Used during the Test

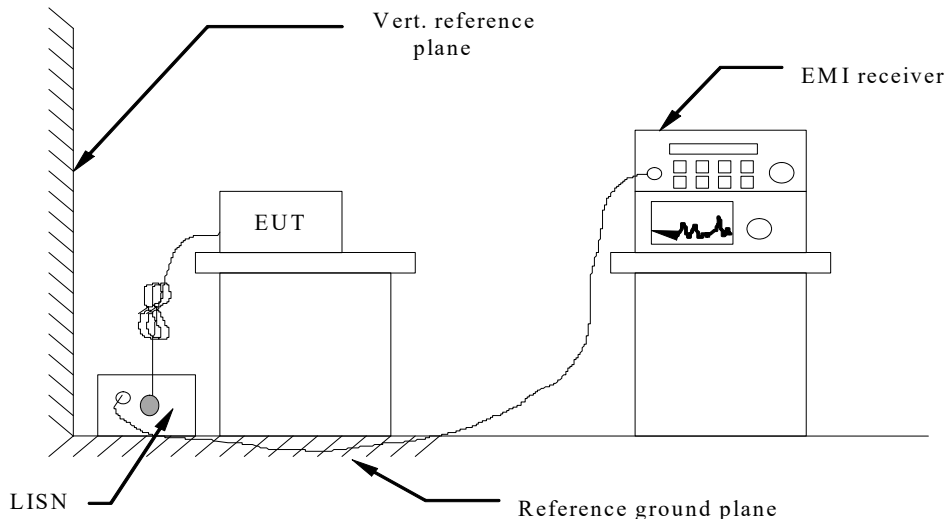
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2026/02/28
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2026/02/28
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2026/02/28
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2026/02/28
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2026/02/28
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2025/11/22
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2026/02/28
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2026/02/28
9	Horn antenna	R&S	OBH100400	26999002	/	2026/02/28
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2026/02/28
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2026/02/28
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2026/02/28
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2026/02/28
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2026/02/28
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2026/02/28
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2026/02/28
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2026/02/28
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2026/02/28
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2026/02/28
20	Power meter	R&S	NRVS	100444	/	2026/02/28

Note: The Cal.Interval was one year.

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

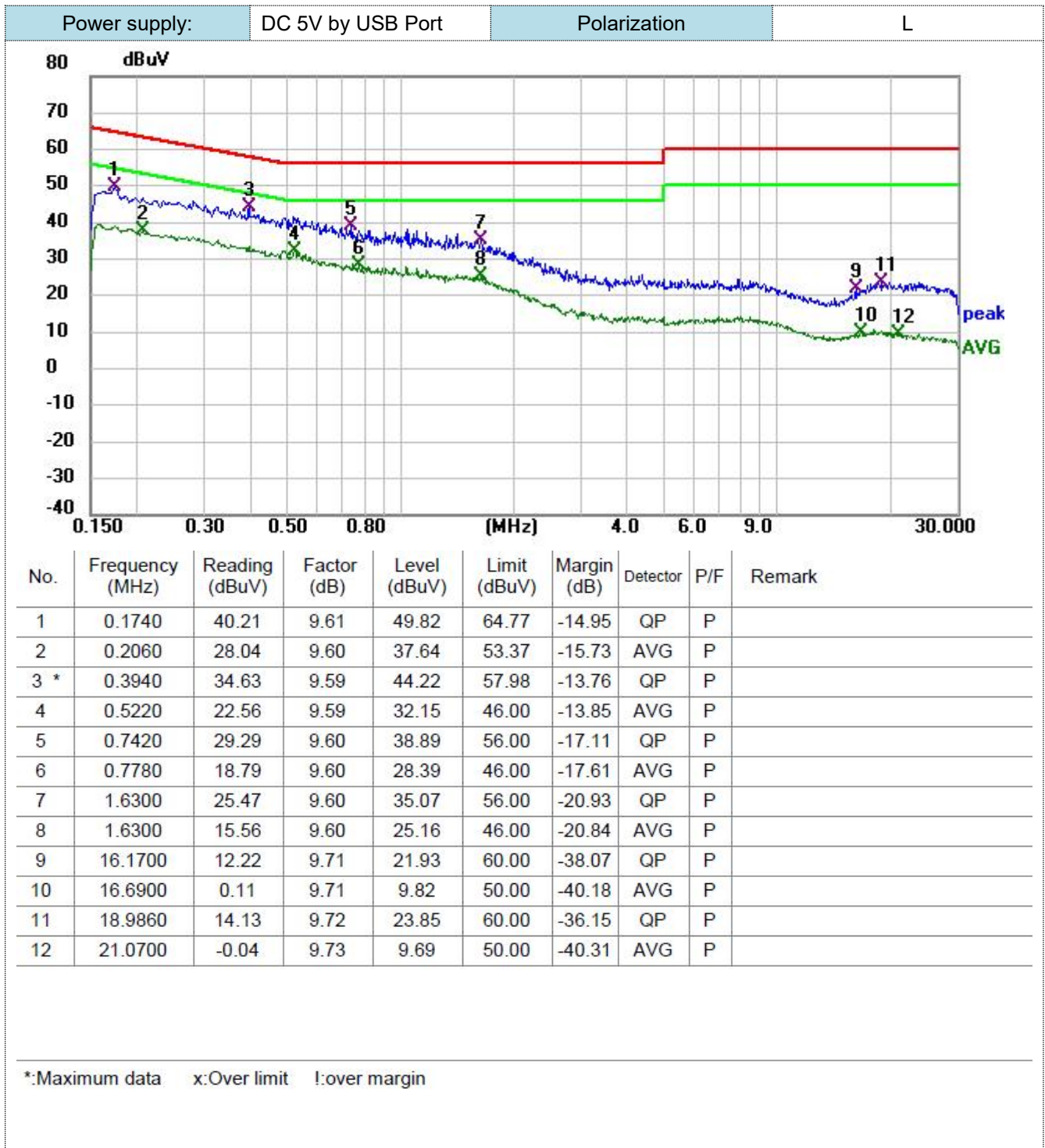
* Decreases with the logarithm of the frequency.

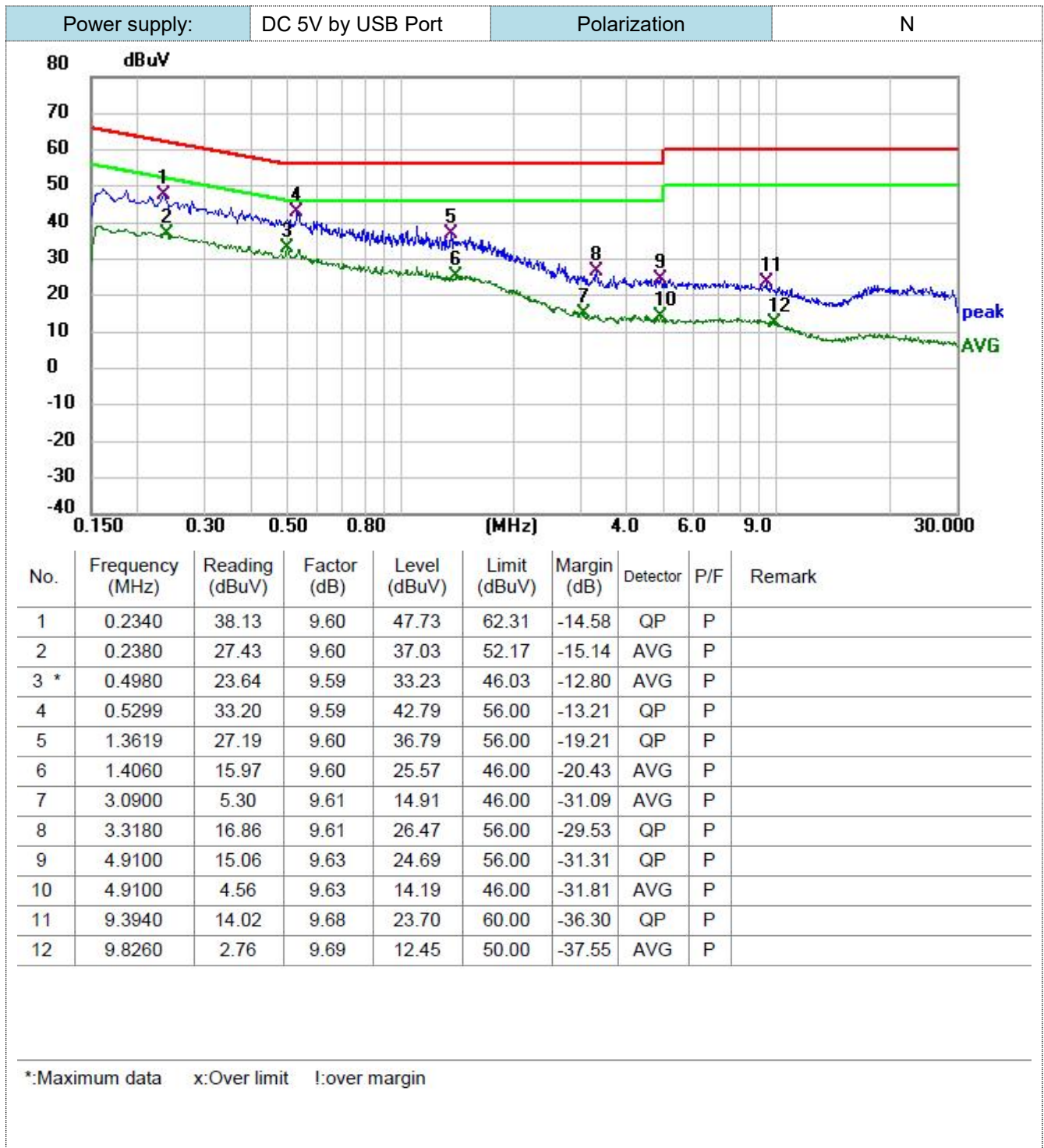
TEST RESULTS

Remark:

1.WIFI modes were test at 802.11b/802.11g/802.11n (H20) /802.11n (H40) (Low, Middle, and High channel); only the worst result of 802.11b Middle Channel was reported as below:

1.

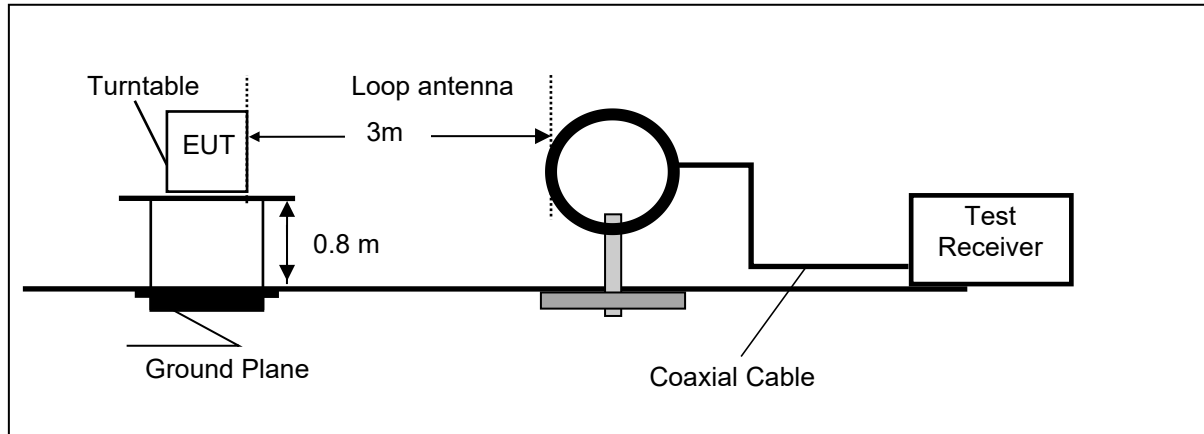




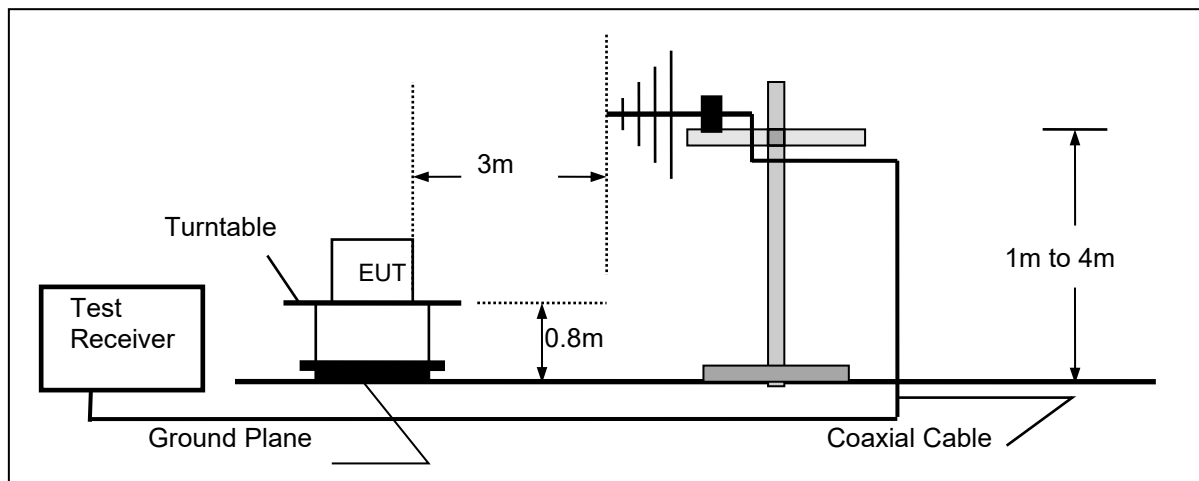
5.2 Radiated Emission

TEST CONFIGURATION

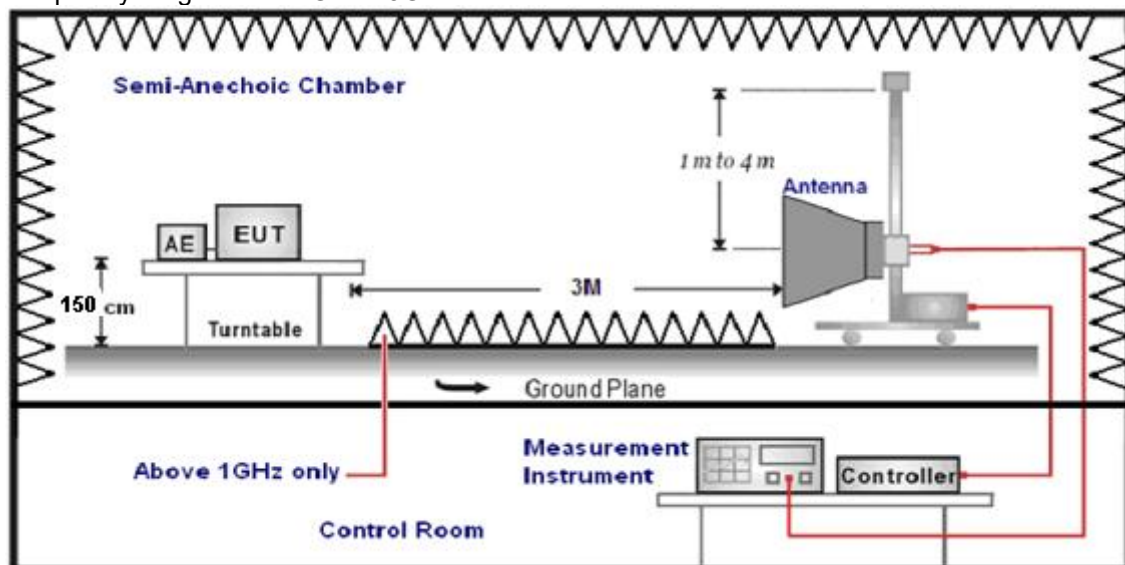
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$Transd=AF +CL-AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT 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 desired power.

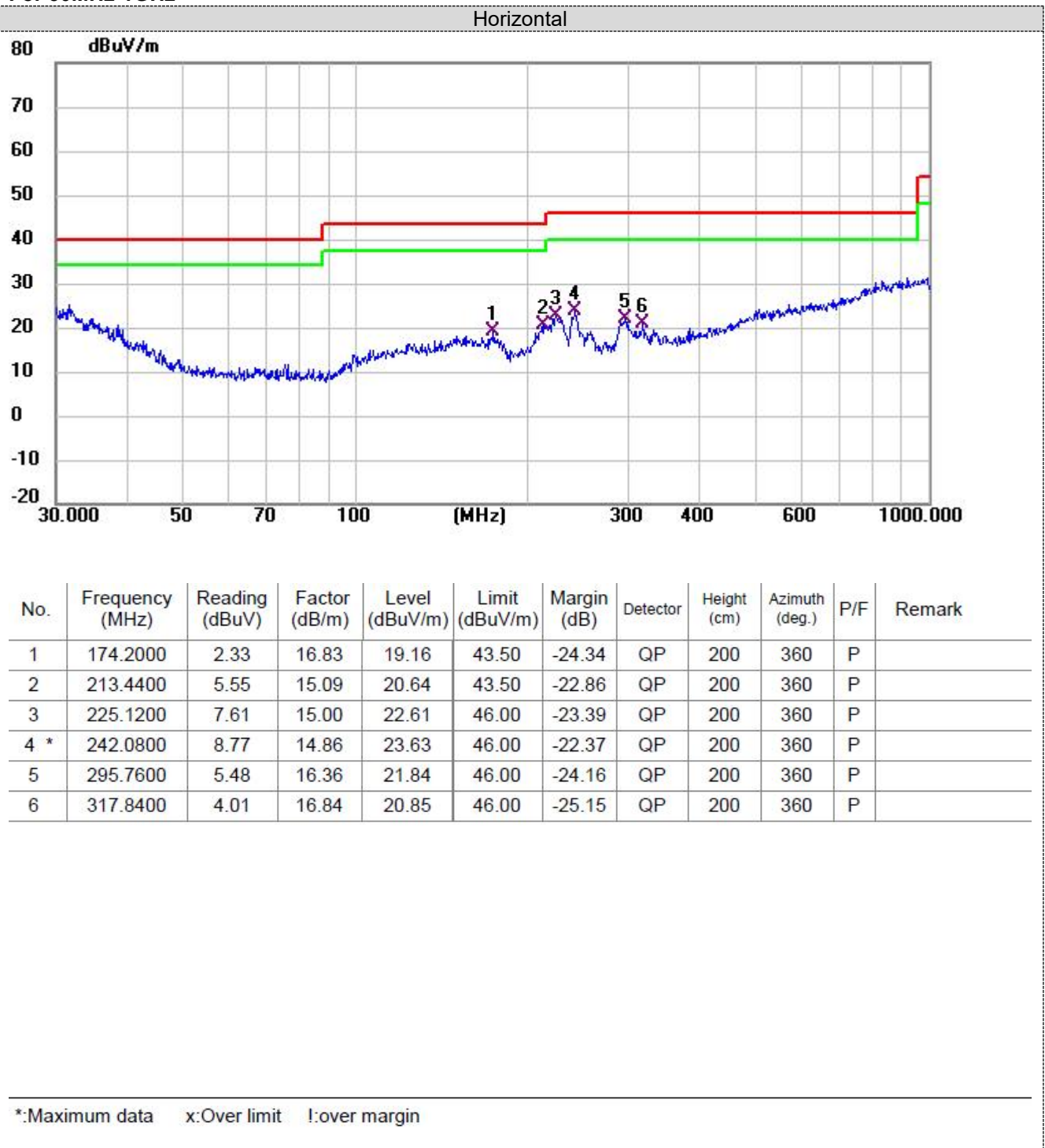
The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

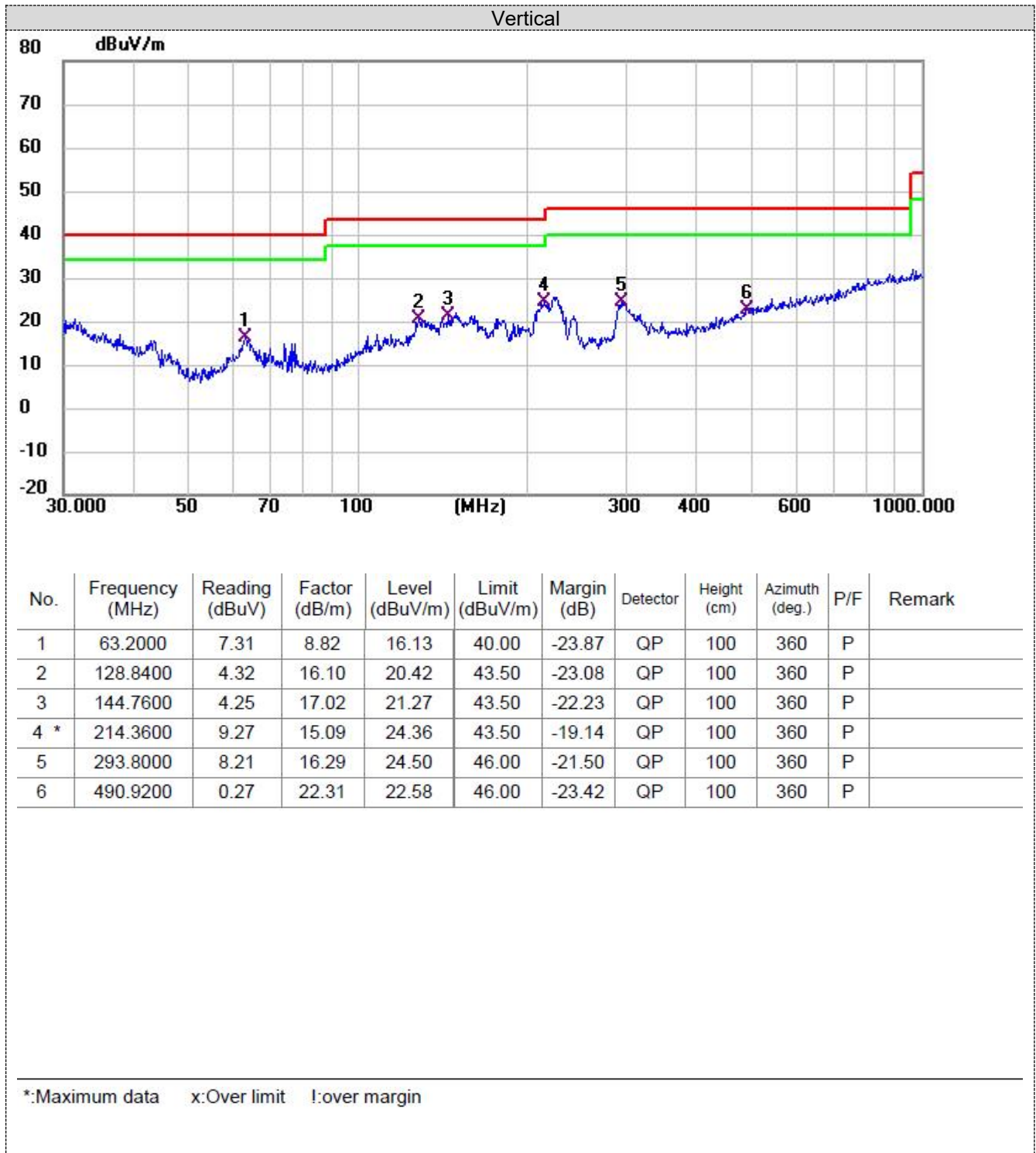
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	$20\log(2400/F(KHz))+40\log(300/3)$	$2400/F(KHz)$
0.49-1.705	3	$20\log(24000/F(KHz))+ 40\log(30/3)$	$24000/F(KHz)$
1.705-30	3	$20\log(30)+ 40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
4. Remark: Result=Reading value+Factor

For 30MHz-1GHz



For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n (H20) /802.11n (H40) all have been tested, only worse case 802.11b mode is reported

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
802.11b-2412MHz									
V	4824	57.7	30.28	7.01	36.5	58.49	74	15.51	PK
V	4824	41.09	30.28	7.01	36.5	41.88	54	12.12	AV
H	4824	57.28	30.28	7.01	36.5	58.07	74	15.93	PK
H	4824	43.63	30.28	7.01	36.5	44.42	54	9.58	AV
V	7236	44.35	36.59	8.91	35.3	54.55	74	19.45	PK
V	7236	30.48	36.59	8.91	35.3	40.68	54	13.32	AV
H	7236	42.59	36.59	8.91	35.3	52.79	74	21.21	PK
H	7236	30.2	36.59	8.91	35.3	40.4	54	13.6	AV
802.11b -2437MHz									
V	4874	55.12	30.36	7.62	36.5	56.6	74	17.4	PK
V	4874	40.64	30.36	7.62	36.5	42.12	54	11.88	AV
H	4874	54.5	30.36	7.62	36.5	55.98	74	18.02	PK
H	4874	42.04	30.36	7.62	36.5	43.52	54	10.48	AV
V	7311	43.66	36.61	8.84	35.3	53.81	74	20.19	PK
V	7311	31.11	36.61	8.84	35.3	41.26	54	12.74	AV
H	7311	42.3	36.61	8.84	35.3	52.45	74	21.55	PK
H	7311	30.34	36.61	8.84	35.3	40.49	54	13.51	AV
802.11b -2462MHz									
V	4924	54.29	30.43	7.94	36.2	56.46	74	17.54	PK
V	4924	42.04	30.43	7.94	36.2	44.21	54	9.79	AV
H	4924	57.45	30.43	7.94	36.2	59.62	74	14.38	PK
H	4924	44.94	30.43	7.94	36.2	47.11	54	6.89	AV
V	7386	41.73	36.78	8.45	35.3	51.66	74	22.34	PK
V	7386	29.99	36.78	8.45	35.3	39.92	54	14.08	AV
H	7386	43.91	36.78	8.45	35.3	53.84	74	20.16	PK
H	7386	30.21	36.78	8.45	35.3	40.14	54	13.86	AV

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11b -2412MHz									
V	2390	56.28	27.49	3.32	36.22	50.87	74	23.13	PK
V	2390	47.58	27.49	3.32	36.22	42.17	54	11.83	AV
H	2390	58.88	27.49	3.32	36.22	53.47	74	20.53	PK
H	2390	47.05	27.49	3.32	36.22	41.64	54	12.36	AV
V	2400	56.93	27.55	3.41	36.22	51.67	74	22.33	PK
V	2400	43.56	27.55	3.41	36.22	38.3	54	15.7	AV
H	2400	59.89	27.55	3.41	36.22	54.63	74	19.37	PK
H	2400	43.3	27.55	3.41	36.22	38.04	54	15.96	AV
802.11b -2462MHz									
V	2483.5	57.74	27.45	3.38	36.34	52.23	74	21.77	PK
V	2483.5	47.56	27.45	3.38	36.34	42.05	54	11.95	AV
H	2483.5	56.97	27.45	3.38	36.34	51.46	74	22.54	PK
H	2483.5	47.56	27.45	3.38	36.34	42.05	54	11.95	AV
V	2500	59.2	27.41	3.47	36.35	53.73	74	20.27	PK
V	2500	47.31	27.41	3.47	36.35	41.84	54	12.16	AV
H	2500	56.44	27.41	3.47	36.35	50.97	74	23.03	PK
H	2500	47.25	27.41	3.47	36.35	41.78	54	12.22	AV

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11g -2412MHz									
V	2390	59.91	27.49	3.32	36.22	54.5	74	19.5	PK
V	2390	45.82	27.49	3.32	36.22	40.41	54	13.59	AV
H	2390	59.66	27.49	3.32	36.22	54.25	74	19.75	PK
H	2390	45.88	27.49	3.32	36.22	40.47	54	13.53	AV
V	2400	56.38	27.55	3.41	36.22	51.12	74	22.88	PK
V	2400	44.77	27.55	3.41	36.22	39.51	54	14.49	AV
H	2400	59.22	27.55	3.41	36.22	53.96	74	20.04	PK
H	2400	43.28	27.55	3.41	36.22	38.02	54	15.98	AV
802.11g -2462MHz									
V	2483.5	55.75	27.45	3.38	36.34	50.24	74	23.76	PK
V	2483.5	43.5	27.45	3.38	36.34	37.99	54	16.01	AV
H	2483.5	56.62	27.45	3.38	36.34	51.11	74	22.89	PK
H	2483.5	45.62	27.45	3.38	36.34	40.11	54	13.89	AV
V	2500	58.15	27.41	3.47	36.35	52.68	74	21.32	PK
V	2500	46.69	27.41	3.47	36.35	41.22	54	12.78	AV
H	2500	55.77	27.41	3.47	36.35	50.3	74	23.7	PK
H	2500	46.63	27.41	3.47	36.35	41.16	54	12.84	AV

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11n(HT20) -2412MHz									
V	2390	59.59	27.49	3.32	36.22	54.18	74	19.82	PK
V	2390	44.46	27.49	3.32	36.22	39.05	54	14.95	AV
H	2390	58.14	27.49	3.32	36.22	52.73	74	21.27	PK
H	2390	44.43	27.49	3.32	36.22	39.02	54	14.98	AV
V	2400	58.91	27.55	3.41	36.22	53.65	74	20.35	PK
V	2400	47.17	27.55	3.41	36.22	41.91	54	12.09	AV
H	2400	55.43	27.55	3.41	36.22	50.17	74	23.83	PK
H	2400	43.9	27.55	3.41	36.22	38.64	54	15.36	AV
802.11n(HT20) -2462MHz									
V	2483.5	56.6	27.45	3.38	36.34	51.09	74	22.91	PK
V	2483.5	43.77	27.45	3.38	36.34	38.26	54	15.74	AV
H	2483.5	56.38	27.45	3.38	36.34	50.87	74	23.13	PK
H	2483.5	44.26	27.45	3.38	36.34	38.75	54	15.25	AV
V	2500	57.93	27.41	3.47	36.35	52.46	74	21.54	PK
V	2500	45.98	27.41	3.47	36.35	40.51	54	13.49	AV
H	2500	58.3	27.41	3.47	36.35	52.83	74	21.17	PK
H	2500	43.32	27.41	3.47	36.35	37.85	54	16.15	AV

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11n(HT40) -2422MHz									
V	2390	59.24	27.49	3.32	36.22	53.83	74	20.17	PK
V	2390	45.77	27.49	3.32	36.22	40.36	54	13.64	AV
H	2390	58.78	27.49	3.32	36.22	53.37	74	20.63	PK
H	2390	43.62	27.49	3.32	36.22	38.21	54	15.79	AV
V	2400	57.31	27.55	3.41	36.22	52.05	74	21.95	PK
V	2400	43.73	27.55	3.41	36.22	38.47	54	15.53	AV
H	2400	55.64	27.55	3.41	36.22	50.38	74	23.62	PK
H	2400	44.7	27.55	3.41	36.22	39.44	54	14.56	AV
802.11n(HT40) -2452MHz									
V	2483.5	55.71	27.45	3.38	36.34	50.2	74	23.8	PK
V	2483.5	43.68	27.45	3.38	36.34	38.17	54	15.83	AV
H	2483.5	56.66	27.45	3.38	36.34	51.15	74	22.85	PK
H	2483.5	44.71	27.45	3.38	36.34	39.2	54	14.8	AV
V	2500	59.83	27.41	3.47	36.35	54.36	74	19.64	PK
V	2500	46.44	27.41	3.47	36.35	40.97	54	13.03	AV
H	2500	56.11	27.41	3.47	36.35	50.64	74	23.36	PK
H	2500	43.62	27.41	3.47	36.35	38.15	54	15.85	AV

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

5.3 Maximum Conducted Output Power

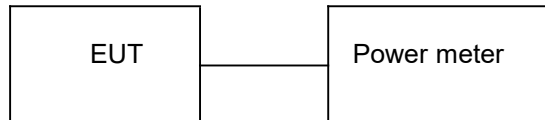
Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

See Appendix I

5.4 Power Spectral Density

Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
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 power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



Test Results

See Appendix VI

5.5 6dB Bandwidth

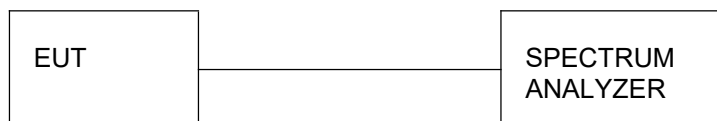
Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



Test Results

See Appendix III

5.6 Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, band edge and out-of-band emissions.

Test Configuration



Test Results

See Appendix IV

5.7 Duty Cycle Information

See Appendix V

5.8 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

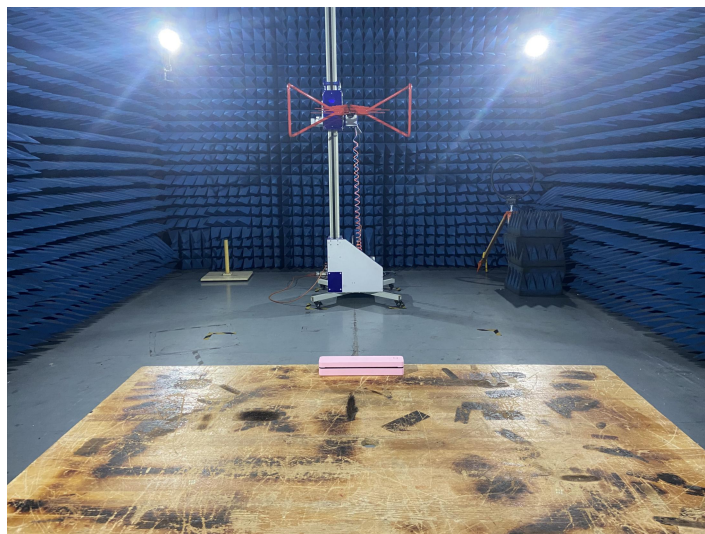
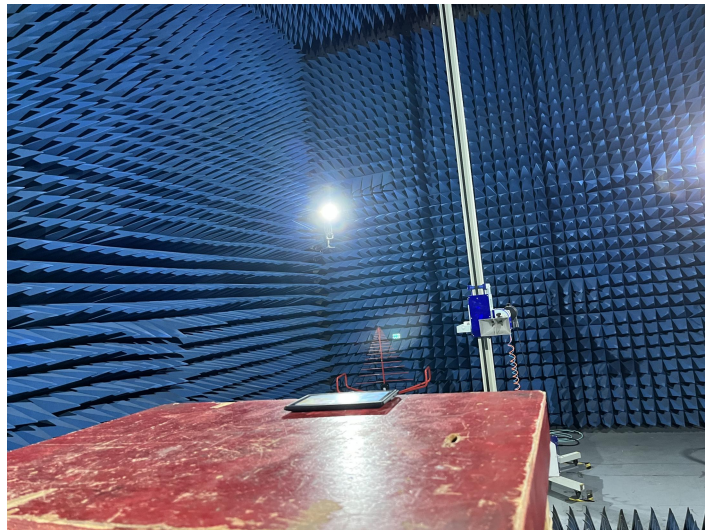
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The directional gains of antenna used for transmitting is 0dBi, and the antenna is and PCB antenna and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6 Test Setup Photos of the EUT



7 Photos of the EUT

See related photo report.

APPENDIX I. Conducted Output Power

Test Result

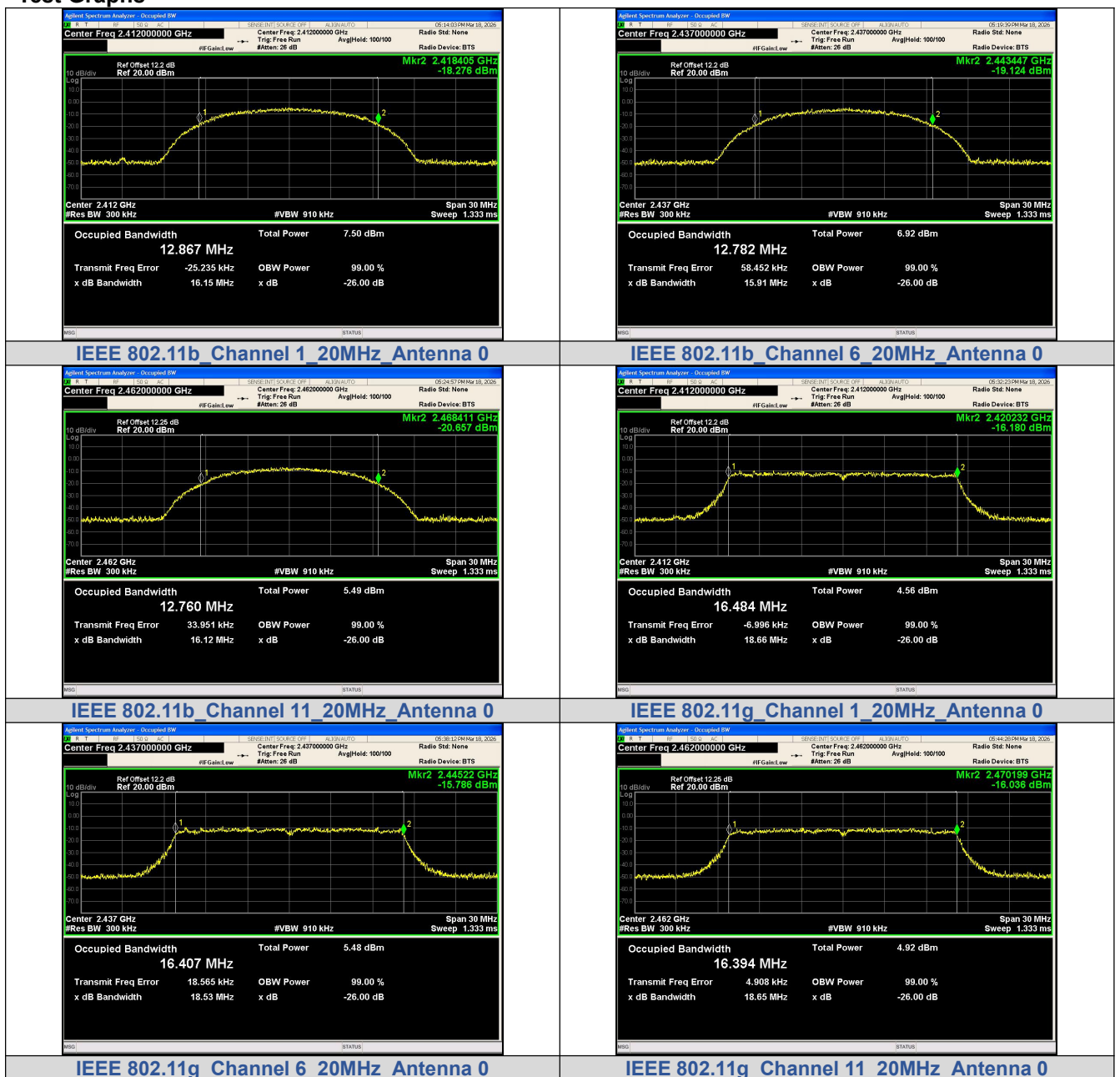
Conducted Output Power

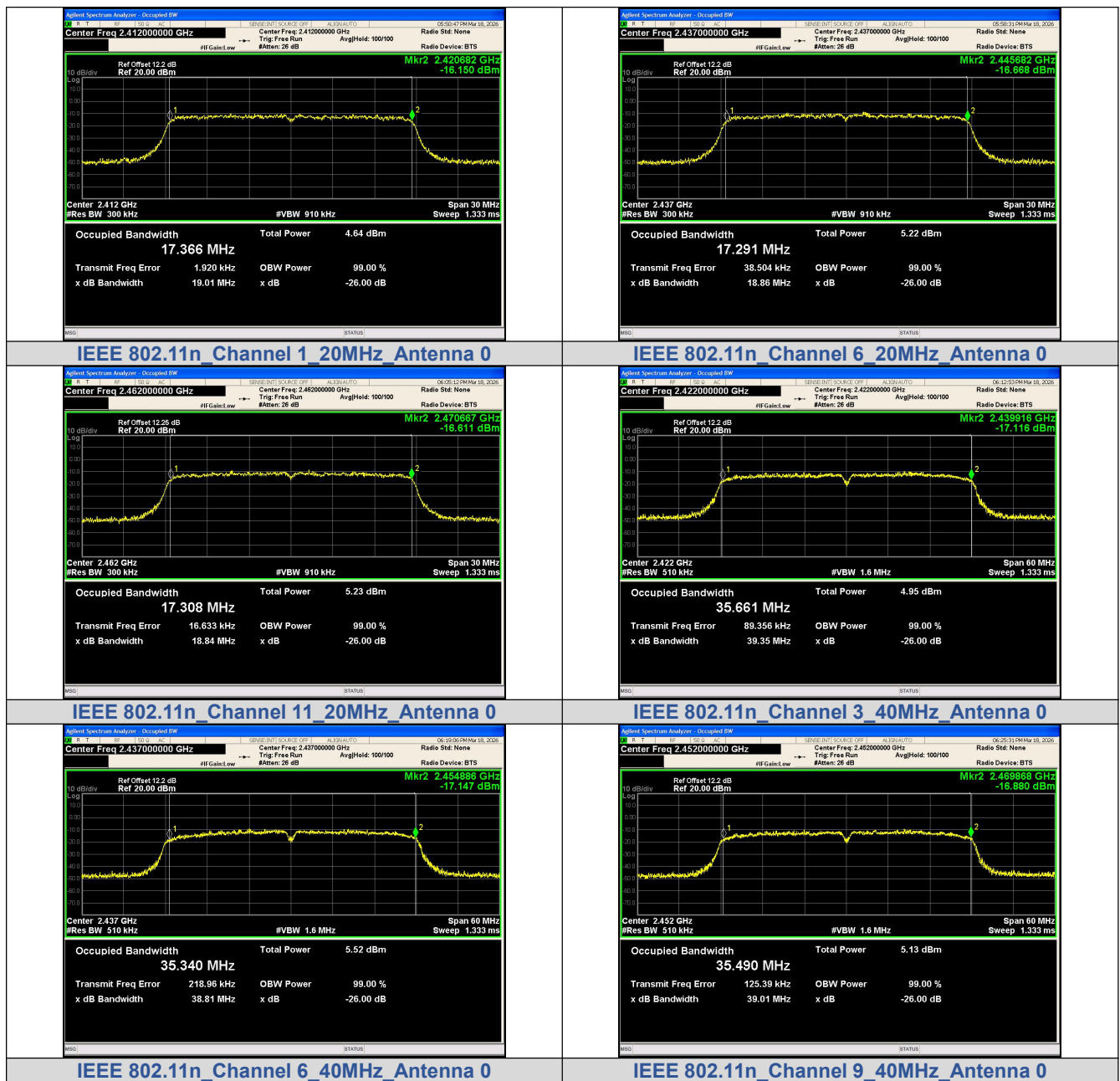
Mode	Channel	Ant. 0 (dBm)	Duty Cycle Factor (dB)	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	6.65	0.0388	6.6888	≤30	PASS
	6	6.15	0.0384	6.1884	≤30	PASS
	11	6.48	0.0384	6.5184	≤30	PASS
IEEE 802.11g	1	6.23	0.1651	6.3951	≤30	PASS
	6	7.06	0.1651	7.2251	≤30	PASS
	11	6.43	0.1655	6.5955	≤30	PASS
IEEE 802.11n_20	1	6.03	0.1963	6.2263	≤30	PASS
	6	6.50	0.1936	6.6936	≤30	PASS
	11	6.61	0.1936	6.8036	≤30	PASS
IEEE 802.11n_40	3	6.25	0.3744	6.6244	≤30	PASS
	6	6.58	0.3744	6.9544	≤30	PASS
	9	6.32	0.3773	6.6973	≤30	PASS

APPENDIX II. 99% Bandwidth Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.867
	6		2437	12.782
	11		2462	12.760
IEEE 802.11g	1		2412	16.484
	6		2437	16.407
	11		2462	16.394
IEEE 802.11n_20	1		2412	17.366
	6		2437	17.291
	11		2462	17.308
IEEE 802.11n_40	3		2422	35.661
	6		2437	35.340
	9		2452	35.490

Test Graphs



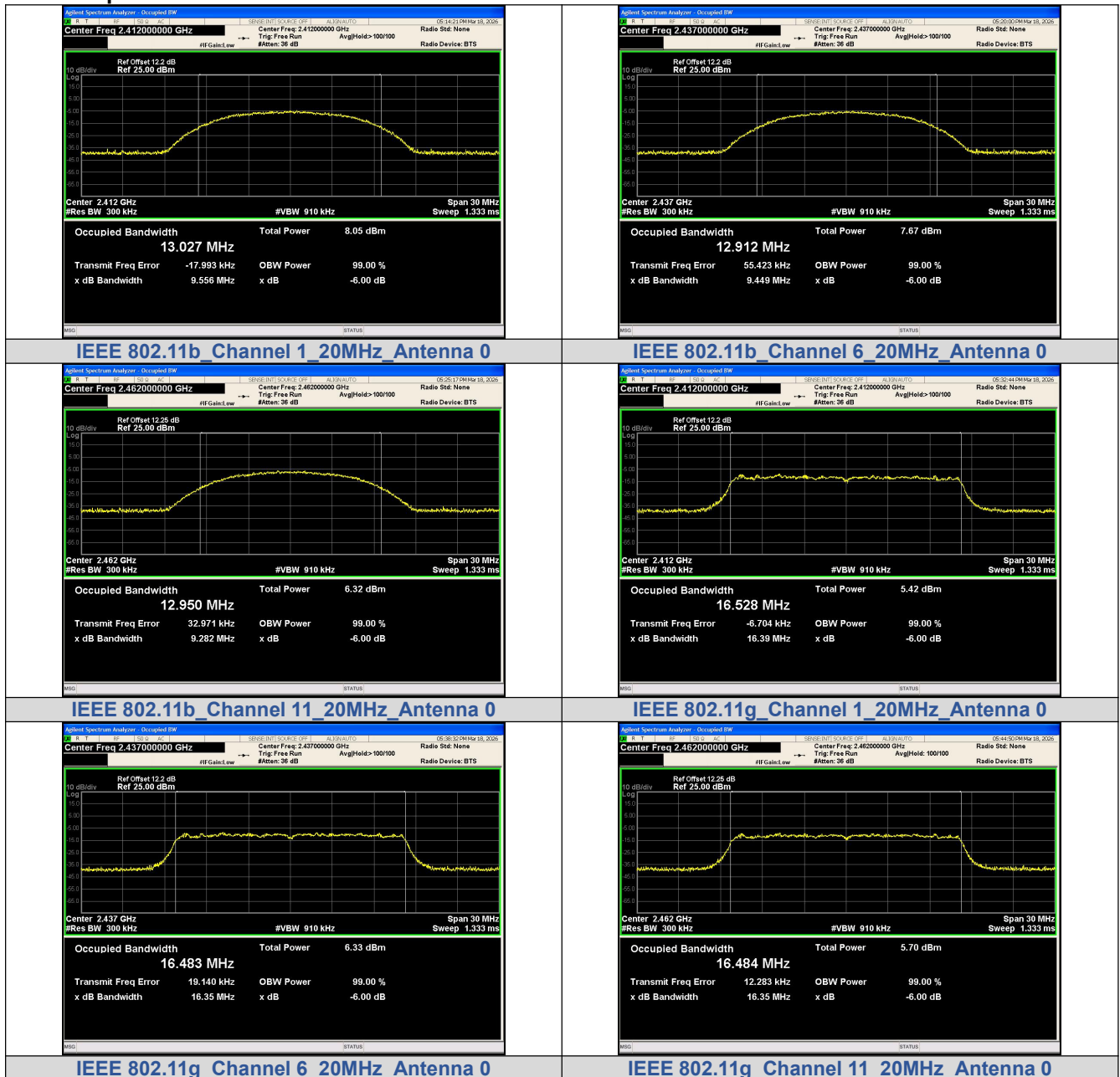


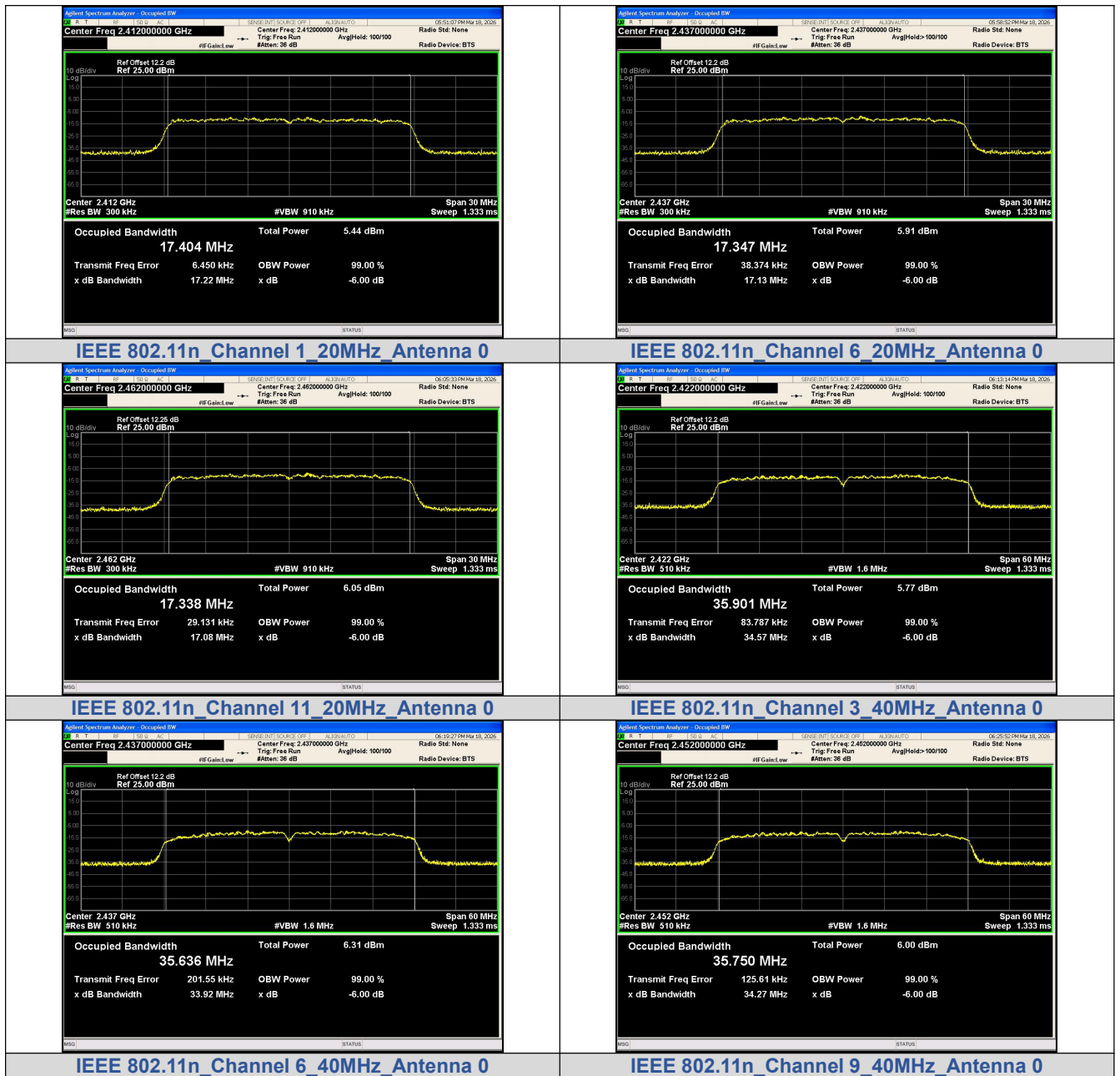
APPENDIX III. 6dB Bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.556	≥0.5	PASS
	6		2437	9.449		PASS
	11		2462	9.282		PASS
IEEE 802.11g	1		2412	16.39		PASS
	6		2437	16.35		PASS
	11		2462	16.35		PASS
IEEE 802.11n_20	1		2412	17.22		PASS
	6		2437	17.13		PASS
	11		2462	17.08		PASS
IEEE 802.11n_40	3		2422	34.57		PASS
	6		2437	33.92		PASS
	9		2452	34.27		PASS

Test Graphs





APPENDIX IV. Conducted Out Of Band Emission**Test Result**

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2337.95	-39.429	-27.1	-12.329	PASS
			2400.00	-40.185	-27.1	-13.085	PASS
			4819.90	-51.540	-27.1	-24.440	PASS
			7251.90	-51.481	-27.1	-24.381	PASS
			9629.70	-51.279	-27.1	-24.179	PASS
	24970.0		-34.483	-27.1	-7.383	PASS	
	6		4881.67	-52.384	-27.67	-24.714	PASS
			7326.23	-51.017	-27.67	-23.347	PASS
			9748.32	-50.988	-27.67	-23.318	PASS
			24939.4	-35.718	-27.67	-8.048	PASS
			2483.50	-42.382	-28.71	-13.672	PASS
	11		4931.61	-51.584	-28.71	-22.874	PASS
			7388.03	-50.894	-28.71	-22.184	PASS
			9832.60	-51.574	-28.71	-22.864	PASS
			24903.2	-35.227	-28.71	-6.517	PASS
2367.33			-38.665	-32.32	-6.345	PASS	
IEEE 802.11g	1		2400.00	-40.854	-32.32	-8.534	PASS
			4830.50	-51.678	-32.32	-19.358	PASS
			7238.80	-49.545	-32.32	-17.225	PASS
			9632.20	-51.204	-32.32	-18.884	PASS
			24943.8	-34.329	-32.32	-2.009	PASS
	6		4871.06	-52.208	-31.07	-21.138	PASS
			7315.00	-51.140	-31.07	-20.070	PASS
			9752.07	-51.582	-31.07	-20.512	PASS
			24893.3	-35.861	-31.07	-4.791	PASS
			2483.50	-41.818	-31.66	-10.158	PASS
	11		4919.75	-51.002	-31.66	-19.342	PASS
			7384.29	-50.655	-31.66	-18.995	PASS
			9833.22	-51.459	-31.66	-19.799	PASS
			24944.4	-35.809	-31.66	-4.149	PASS
			2370.58	-39.446	-32.18	-7.266	PASS
IEEE 802.11n_20	1		2400.00	-41.018	-32.18	-8.838	PASS
			4808.60	-51.199	-32.18	-19.019	PASS
			7243.20	-50.217	-32.18	-18.037	PASS
			9650.30	-51.587	-32.18	-19.407	PASS
			24975.7	-35.788	-32.18	-3.608	PASS
	6		4878.55	-50.990	-31.24	-19.750	PASS
			7323.74	-51.822	-31.24	-20.582	PASS
			9752.69	-51.824	-31.24	-20.584	PASS
			24998.1	-36.451	-31.24	-5.211	PASS
			2483.50	-40.310	-31.1	-9.210	PASS
	11		4938.48	-51.588	-31.1	-20.488	PASS
			7404.89	-51.037	-31.1	-19.937	PASS
			9830.73	-51.616	-31.1	-20.516	PASS
			24938.8	-36.305	-31.1	-5.205	PASS
			2364.08	-39.408	-34.44	-4.968	PASS
IEEE 802.11n_40	3		2400.00	-41.536	-34.44	-7.096	PASS
			4877.30	-51.673	-34.44	-17.233	PASS
			7288.80	-50.528	-34.44	-16.088	PASS
			9700.30	-51.603	-34.44	-17.163	PASS
			24905.7	-35.742	-34.44	-1.302	PASS
	6		4896.65	-52.162	-33.92	-18.242	PASS
			7291.28	-50.332	-33.92	-16.412	PASS
			9750.82	-50.777	-33.92	-16.857	PASS
			24941.3	-36.087	-33.92	-2.167	PASS
			2483.50	-41.023	-34.17	-6.853	PASS
	9		4919.13	-52.051	-34.17	-17.881	PASS
			7331.85	-51.319	-34.17	-17.149	PASS
			9787.65	-51.572	-34.17	-17.402	PASS
			24898.9	-35.769	-34.17	-1.599	PASS