

FCC TEST REPORT

(Part 15, Subpart E)

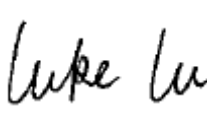
Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong, China

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Smart Mobile Payment Terminal
Brand Name:	PAX
Model Name:	A920Pro
FCC ID:	V5PA920PRO
Date of tests:	Mar. 25, 2020 ~ May. 14, 2020

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: May. 14, 2020	 Date: May. 14, 2020

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1 SUMMARY OF TEST RESULTS	5
1.1 MEASUREMENT UNCERTAINTY	6
2 GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	11
2.3 DUTY CYCLE OF TEST SIGNAL	16
2.4 DESCRIPTION OF SUPPORT UNITS	17
2.4.1 CONFIGURATION OF SYSTEM UNDER TEST	18
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	18
3 TEST TYPES AND RESULTS	19
3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT	19
3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	19
3.1.2 LIMITS OF UNWANTED EMISSION	19
3.1.3 TEST INSTRUMENTS	20
3.1.4 TEST PROCEDURES	23
3.1.5 DEVIATION FROM TEST STANDARD	23
3.1.6 TEST SETUP	24
3.1.7 EUT OPERATING CONDITION	25
3.1.8 TEST RESULTS	26
3.2 OUT OF BAND EMISSION MEASUREMENT	74
3.2.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT	74
3.2.2 TEST INSTRUMENTS	75
3.2.3 TEST PROCEDURES	75
3.2.4 DEVIATION FROM TEST STANDARD	75
3.2.5 TEST SETUP	75
3.2.6 EUT OPERATING CONDITION	75
3.2.7 TEST RESULTS	76
3.3 CONDUCTED EMISSION MEASUREMENT	86
3.3.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	86
3.3.2 TEST INSTRUMENTS	86
3.3.3 TEST PROCEDURES	86



3.3.4	DEVIATION FROM TEST STANDARD	87
3.3.5	TEST SETUP	87
3.3.6	EUT OPERATING CONDITIONS	87
3.3.7	TEST RESULTS	88
3.4	MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	90
3.4.1	LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	90
3.4.2	TEST SETUP	91
3.4.3	TEST INSTRUMENTS	91
3.4.4	TEST PROCEDURE	92
3.4.5	DEVIATION FROM TEST STANDARD	94
3.4.6	EUT OPERATING CONDITIONS	94
3.4.7	TEST RESULTS	95
3.5	MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT	109
3.5.1	LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT	109
3.5.2	TEST SETUP	109
3.5.3	TEST INSTRUMENTS	109
3.5.4	TEST PROCEDURES	110
3.5.5	DEVIATION FROM TEST STANDARD	110
3.5.6	EUT OPERATING CONDITIONS	110
3.5.7	TEST RESULTS	111
4	PHOTOGRAPHS OF THE TEST CONFIGURATION	118
5	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	119

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200324W001-3	Original release	May. 14, 2020

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
15.407(b)(6)	AC Power Conducted Emission	Compliance	A
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance	B
15.407(a/1/2/3)	Maximum conducted output Power	Compliance	A
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance	A
15.403(i)	26 dB Bandwidth	Compliance	A
15.407(e)	6 dB Bandwidth	Compliance	A
15.203	Antenna Requirement	Compliance	A

*Test Lab Information Reference

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Address:

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

The FCC Site Registration No. is 525120; The Designation No. is CN1171.

Lab B:

Bureau Veritas (Shenzhen) Consumer Products Service

Lab Address:

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

The FCC Site Registration No. is 535293.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

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



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Mobile Payment Terminal
BRAND NAME	PAX
MODEL NAME	A920Pro
NOMINAL VOLTAGE	DC 3.7V
MODULATION	OFDM
TRANSFER RATE	802.11a: 6 Mbps(Measured Worst) 802.11n20/ac 20: MCS0 (Measured Worst) 802.11n40/ac 40: MCS0 (Measured Worst) 802.11ac80: MCS0 (Measured Worst)
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/11ac (20MHz) 2 for 802.11n/11ac (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/11ac (20MHz) 2 for 802.11n/11ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n, 802.11ac(20MHz) 6 for 802.11n, 802.11ac (40MHz) 3 for 802.11ac (80MHz) 5745 ~ 5825MHz: 6 for 802.11a, 802.11n/11ac (20MHz) 3 for 802.11n/11ac (40MHz) 2 for 802.11ac (80MHz)
AVERAGE POWER	31.48mW for 5180 ~ 5240MHz 31.48mW for 5260 ~ 5320MHz 31.48mW for 5500 ~ 5720MHz 31.41mW for 5745 ~ 5825MHz
ANTENNA TYPE	FPC Antenna with 1.5dBi gain
HW VERSION	N/A
SW VERSION	N/A
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one transmitters and one receivers

MODULATION MODE	TX FUNCTION
802.11a	1TX /1RX
802.11n/802.11ac (20MHz)	1TX /1RX
802.11n/802.11ac (40MHz)	1TX /1RX
802.11ac (80MHz)	1TX /1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

4. List of Accessory:

ACCESSORIES	BRAND	MODEL	MANUFACTURER	SPECIFICATION
AC Adapter	N/A	GLH50D2000HW	/	Input: 100-240V~50/60Hz 0.40A Output: 5.0V $\overline{\text{---}}$ 2000mA
Battery	VEKEN	YW-008	NingBo Veken Battery Co., Ltd.	Rating : 3.7V $\overline{\text{---}}$ 5150mAh 19.05Wh, Rechargeable Li-ion Battery

5. The device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5250 ~ 5350MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5470 ~ 5725MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz
138	5690 MHz		

FOR 5725 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	157	5785 MHz
153	5765 MHz	165	5825 MHz
144	5720 MHz		

3 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz
142	5710 MHz		

2 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775 MHz	138	5690 MHz

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Powered by Adapter with wifi(5G) link
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where

RE $\geq$ 1G: Radiated Emission above 1GHz

PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: “-” means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 122, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11n (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138, 155	OFDM	MCS0

**RADIATED EMISSION TEST (BELOW 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11n40	5180-5240	38 to 46	38	OFDM	MCS0

POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11n40	5180-5240	38 to 46	38	OFDM	MCS0



BANDEDGE MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11n (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 122, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11n (20MHz)		144 to 165	144, 149, 157, 165	OFDM	MCS0
A	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138, 155	OFDM	MCS0

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
B	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
B	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
B	802.11ac (80MHz)		42	42	OFDM	MCS0
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
B	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
B	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
B	802.11ac (80MHz)		58	58	OFDM	MCS0
B	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
B	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
B	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
B	802.11ac (80MHz)		106 to 138	106, 122, 138	OFDM	MCS0
B	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
B	802.11n (20MHz)		144 to 165	144, 149, 157, 165	OFDM	MCS0
B	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
B	802.11ac (80MHz)		138 to 155	138, 155	OFDM	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.7V	Aaron Liang
RE≥1G	23deg. C, 70%RH	DC 3.7V	Aaron Liang
PLC	25deg. C, 52%RH	DC 3.7V	Chase Zhou
APCM	25deg. C, 60%RH	DC 3.7V	Harris Wang

2.3 DUTY CYCLE OF TEST SIGNAL

Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 100%, Duty factor shall not be considered

802.11n (20MHz): Duty cycle = 100%, Duty factor shall not be considered

802.11n (40MHz): Duty cycle = 100%, Duty factor shall not be considered

802.11ac (80MHz): Duty cycle = 100%, Duty factor shall not be considered





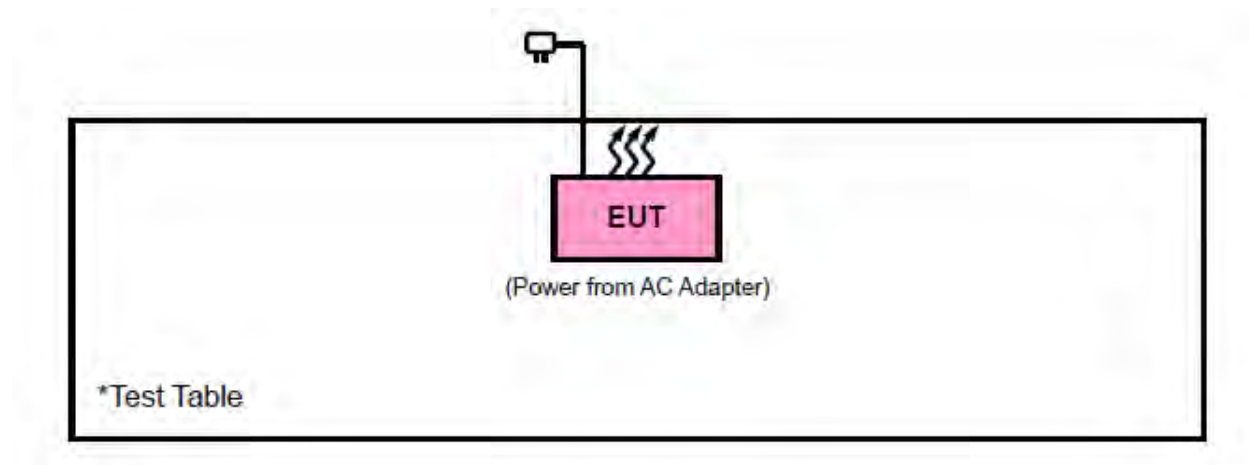
2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Sdoc). The test report has been issued separately.

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. 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.

3.1.2 LIMITS OF UNWANTED EMISSION

RESTRICTED BANDS	APPLICABLE TO	LIMIT	
	789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m (dBµV/m)	
		PK : 74	AV : 54
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
	15.407(b)(1)	PK : -27	PK : 68.3
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See note 2 (FCC 16-24)	

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

2. All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.1.3 TEST INSTRUMENTS

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-100262-eQ	Mar. 24,20	Mar. 24,21
Bilog Antenna	Sunol Sciences	JB6	A110712	Apr. 08, 20	Apr. 07,21
Active Antenna	CMO-POWER	AL-130	121031	Mar. 27, 20	Mar. 26, 21
Signal Amplifier	HP	8447E	443008	Mar. 24, 20	Mar. 24, 21
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A
Universal Radio Communication	ROHDE&SCHWARZ	CMU200	112012	Mar. 24,20	Mar. 24,21
Wireless Communication Test Set	ROHDE&SCHWARZ	CMW500	1201.0002K500-155842-Gd	Nov. 1, 19	Oct. 31, 20

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXA signal analyzer	Agilent	N9020A	MY49100060	Mar. 24, 20	Mar. 24, 21
Horn Antenna	COM-POWER	HAH-118	71259	Apr. 17, 20	Apr. 17, 21
Horn Antenna	COM-POWER	HAH-118	71283	Mar. 20, 20	Mar. 19, 21
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170147	Jun. 30, 20	Jun. 29, 21
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170242	Jun. 30, 20	Jun. 29, 21
AMPLIFIER	EM Electornic Corporation	EM01G26G	60613	Mar. 24, 20	Mar. 24, 21
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A
Universal Radio Communication	ROHDE&SCHWARZ	CMU200	112012	Mar. 24,20	Mar. 24,21
Wireless Communication Test Set	ROHDE&SCHWARZ	CMW500	1201.0002K500-155842-Gd	Nov. 1, 19	Oct. 31, 20



Test Report No.: RF200324W001-3

NOTE:

1. The calibration interval of the above test instruments is 12 months (except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 535293.

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

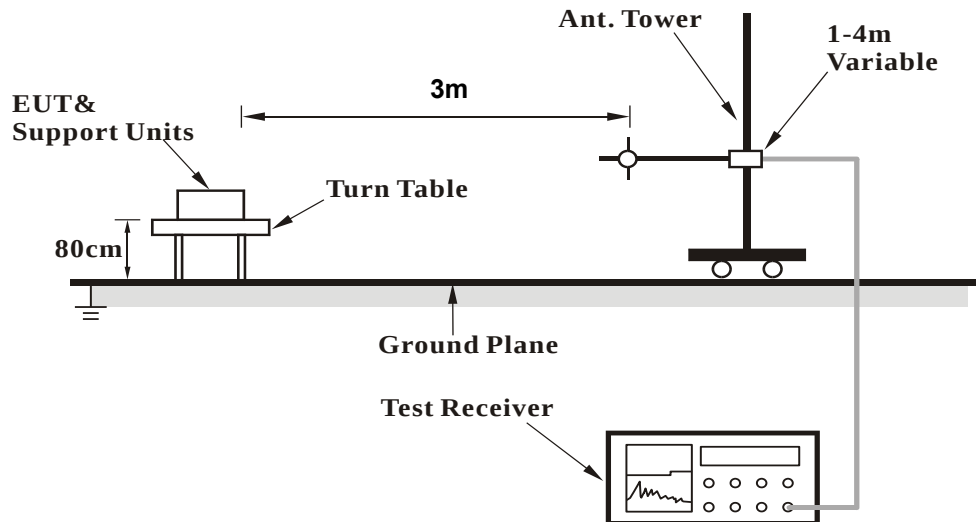
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.1.5 DEVIATION FROM TEST STANDARD

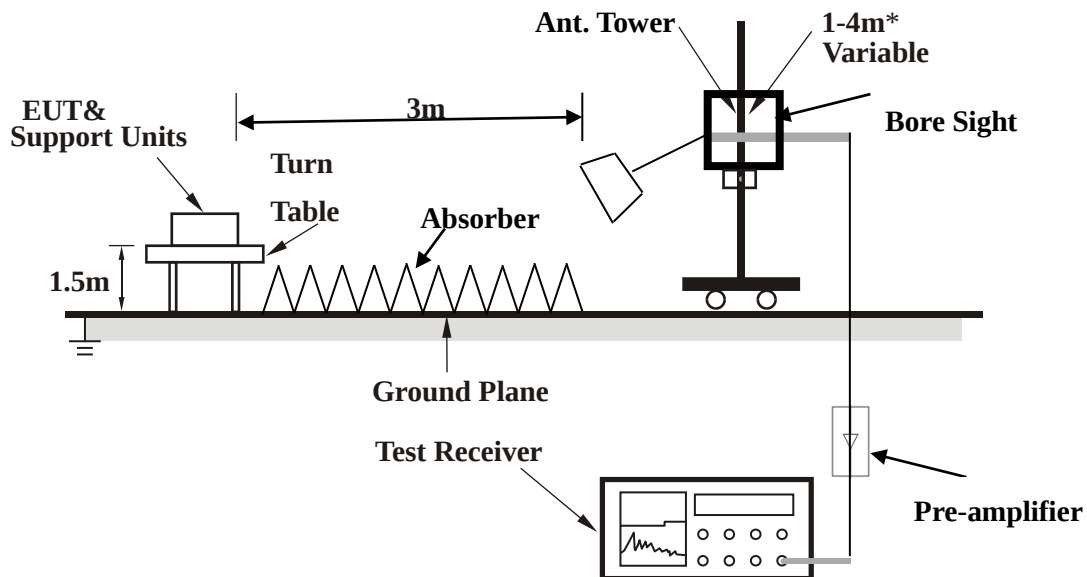
No deviation.

3.1.6 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



Test Report No.: RF200324W001-3

3.1.7 EUT OPERATING CONDITION

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

3.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

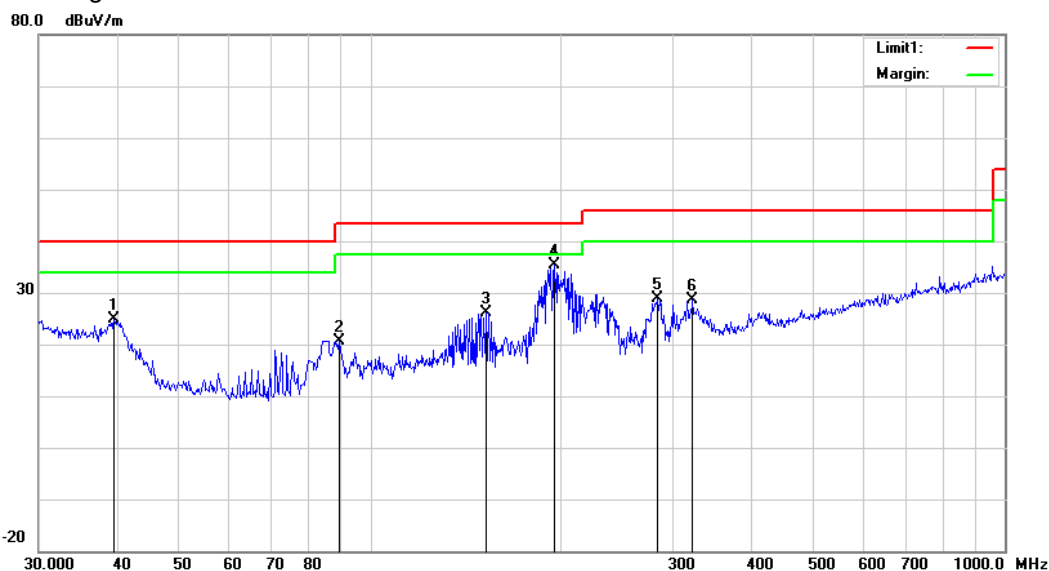
802.11n (40MHZ)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
39.4372	33.85	peak	13.17	22.28	0.18	24.92	40.00	-15.08	100	126
89.2764	34.80	peak	7.63	22.33	0.62	20.72	43.50	-22.78	200	272
152.1297	36.19	peak	10.93	22.33	1.28	26.07	43.50	-17.43	100	330
195.1365	44.69	peak	11.44	22.35	1.53	35.31	43.50	-8.19	100	340
283.9792	36.20	peak	13.32	22.29	1.68	28.91	46.00	-17.09	100	127
322.1886	34.90	peak	14.14	22.23	1.78	28.59	46.00	-17.41	100	17

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

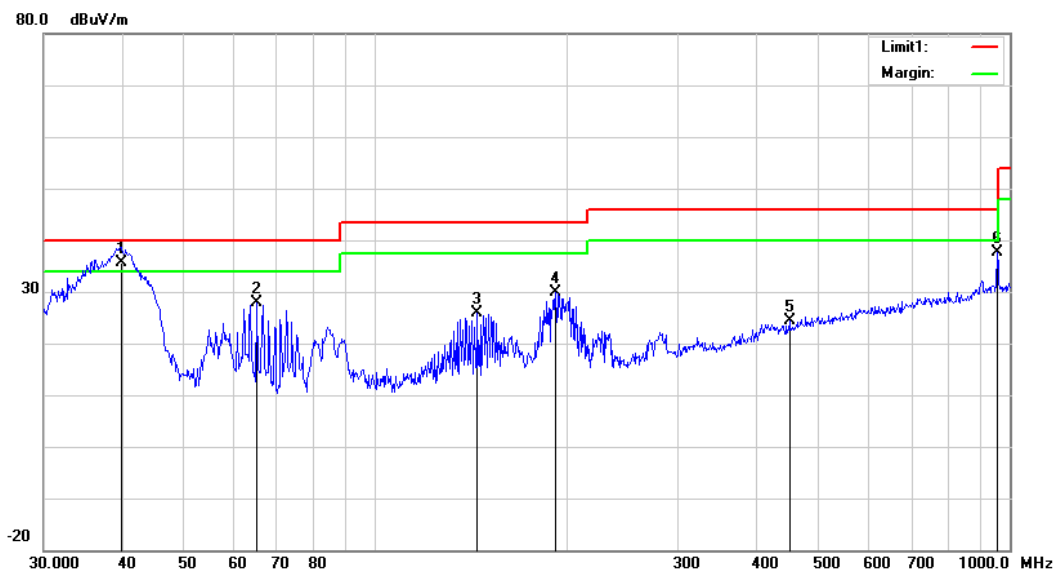


CHANNEL	Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ()
39.7147	44.77	QP	12.94	22.28	0.18	35.61	40.00	-4.39	100	208
64.8865	43.14	peak	6.81	22.40	0.30	27.85	40.00	-12.15	100	298
144.8418	35.88	peak	11.07	22.38	1.24	25.81	43.50	-17.69	100	109
192.4186	39.23	peak	11.41	22.33	1.52	29.83	43.50	-13.67	200	91
449.5558	27.10	peak	17.10	21.91	2.01	24.30	46.00	-21.70	100	323
955.4381	32.09	peak	23.70	20.77	2.71	37.73	46.00	-8.27	100	118

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

Band 1

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.51	PK	74	-17.49	215	122	52.39	-4.12
5149.9	44.39	AV	54	-9.61	215	122	40.27	-4.12
*5180.00	94.67	PK			146	268	90.63	-4.04
*5180.00	83.51	AV			146	268	79.47	-4.04
#10360.00	48.26	PK	74	-25.74	157	131	53.64	5.38
#10360.00	36.46	AV	54	-17.54	157	131	41.84	5.38
15540	43.65	PK	74	-30.35	181	34	52.38	8.73
15540	32.81	AV	54	-21.19	181	34	41.54	8.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	57.98	PK	74	-16.02	196	326	53.86	-4.12
5149.9	45.53	AV	54	-8.47	196	326	41.41	-4.12
*5180.00	101.07	PK			167	81	97.03	-4.04
*5180.00	89.26	AV			167	81	85.22	-4.04
#10360.00	48.81	PK	74	-25.19	139	354	54.19	5.38
#10360.00	36.27	AV	54	-17.73	139	354	41.65	5.38
15540	43.62	PK	74	-30.38	122	106	52.35	8.73
15540	31.64	AV	54	-22.36	122	106	40.37	8.73

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSI ON LEVEL (dBuV/ m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
5149.9	57.43	PK	74	-16.57	221	176	53.31	-4.12
5149.9	45.63	AV	54	-8.37	221	176	41.51	-4.12
*5200.00	94.91	PK			150	73	90.92	-3.99
*5200.00	82.71	AV			150	73	78.72	-3.99
#10400	54.07	PK	74	-19.93	190	94	59.45	5.38
#10400	42.54	AV	54	-11.46	190	94	47.92	5.38
15600	51.77	PK	74	-22.23	242	225	60.55	8.78
15600	39.68	AV	54	-14.32	242	225	48.46	8.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSI ON LEVEL (dBuV/ m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
5149.9	55.64	PK	74	-18.36	114	126	51.52	-4.12
5149.9	43.74	AV	54	-10.26	114	126	39.62	-4.12
*5200.00	101.75	PK			182	47	97.76	-3.99
*5200.00	89.15	AV			182	47	85.16	-3.99
#10400.00	48.44	PK	74	-25.56	213	35	53.82	5.38
#10400.00	36.57	AV	54	-17.43	213	35	41.95	5.38
15600	43.17	PK	74	-30.83	241	5	51.95	8.78
15600	32.92	AV	54	-21.08	241	5	41.7	8.78

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5200MHz: Fundamental frequency.



CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.31	PK	74	-17.69	145	289	52.19	-4.12
5149.9	45.47	AV	54	-8.53	145	289	41.35	-4.12
*5240.00	95.09	PK			125	32	91.2	-3.89
*5240.00	83.64	AV			125	32	79.75	-3.89
5350	56.56	PK	74	-17.44	174	327	53.3	-3.26
5350	43.3	AV	54	-10.7	174	327	40.04	-3.26
#10480.00	48.83	PK	74	-25.17	170	44	54.45	5.62
#10480.00	36.24	AV	54	-17.76	170	44	41.86	5.62
15720	43.93	PK	74	-30.07	160	86	52.66	8.73
15720	31.72	AV	54	-22.28	160	86	40.45	8.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	60.07	PK	74	-13.93	174	187	55.95	-4.12
5149.9	48.92	AV	54	-5.08	174	187	44.8	-4.12
*5240.00	101.77	PK			140	203	97.88	-3.89
*5240.00	90.34	AV			140	203	86.45	-3.89
5350	60.76	PK	74	-13.24	189	280	57.5	-3.26
5350	48.37	AV	54	-5.63	189	280	45.11	-3.26
#10480.00	49.5	PK	74	-24.5	197	123	55.12	5.62
#10480.00	37.62	AV	54	-16.38	197	123	43.24	5.62
15720	44.04	AV	74	-29.96	178	237	52.77	8.73
15720	33.28	AV	54	-20.72	178	237	42.01	8.73

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5240MHz: Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSI ON LEVEL (dBuV/ m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	57.92	PK	74	-16.08	242	6	53.8	-4.12
5149.9	46.11	AV	54	-7.89	242	6	41.99	-4.12
*5180.00	100.88	PK			169	238	96.84	-4.04
*5180.00	89.61	AV			169	238	85.57	-4.04
#10360.00	49.37	PK	74	-24.63	247	15	54.75	5.38
#10360.00	36.57	AV	54	-17.43	247	15	41.95	5.38
15540	43.64	PK	74	-30.36	128	352	52.37	8.73
15540	30.16	AV	54	-23.84	128	352	38.89	8.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSI ON LEVEL (dBuV/ m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	59.13	PK	74	-14.87	165	280	55.01	-4.12
5149.9	47.83	AV	54	-6.17	165	280	43.71	-4.12
*5180.00	99.47	PK			113	92	95.43	-4.04
*5180.00	89.17	AV			113	92	85.13	-4.04
#10360.00	48.3	PK	74	-25.7	149	220	53.68	5.38
#10360.00	36.79	AV	54	-17.21	149	220	42.17	5.38
15540	44.66	PK	74	-29.34	226	252	53.39	8.73
15540	43.69	AV	54	-10.31	226	252	52.42	8.73

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.59	PK	74	-17.41	162	20	52.47	-4.12
5149.9	45.35	AV	54	-8.65	162	20	41.23	-4.12
*5200.00	100.77	PK			227	42	96.78	-3.99
*5200.00	88.64	AV			227	42	84.65	-3.99
#10400	48.51	PK	74	-25.49	112	218	53.89	5.38
#10400	37.29	AV	54	-16.71	112	218	42.67	5.38
15600	43.29	PK	74	-30.71	179	76	52.07	8.78
15600	32.58	AV	54	-21.42	179	76	41.36	8.78
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.16	PK	74	-17.84	179	90	52.04	-4.12
5149.9	45.23	AV	54	-8.77	179	90	41.11	-4.12
*5200.00	100.2	PK			199	330	96.21	-3.99
*5200.00	88.51	AV			199	330	84.52	-3.99
#10400.0	48.98	PK	74	-25.02	247	75	54.36	5.38
#10400.0	37.65	AV	54	-16.35	247	75	43.03	5.38
15600	43.35	PK	74	-30.65	228	146	52.13	8.78
15600	31.82	AV	54	-22.18	228	146	40.6	8.78

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5200MHz: Fundamental frequency.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.74	PK	74	-17.26	192	342	52.62	-4.12
5149.9	45.62	AV	54	-8.38	192	342	41.5	-4.12
*5240.00	99.45	PK			127	110	95.56	-3.89
*5240.00	87.32	AV			127	110	83.43	-3.89
5350	56.84	PK	74	-17.16	127	162	53.58	-3.26
5350	45.76	AV	54	-8.24	127	162	42.5	-3.26
#10480.00	49.08	PK	74	-24.92	195	213	54.7	5.62
#10480.00	38.34	AV	54	-15.66	195	213	43.96	5.62
15720	44.23	PK	74	-29.77	194	319	52.96	8.73
15720	32.92	AV	54	-21.08	194	319	41.65	8.73

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	57.31	PK	74	-16.69	220	322	53.19	-4.12
5149.9	46.56	AV	54	-7.44	220	322	42.44	-4.12
*5240.00	96.24	PK			249	322	92.35	-3.89
*5240.00	84.47	AV			249	322	80.58	-3.89
5350	56.96	PK	74	-17.04	164	158	53.7	-3.26
5350	45.37	AV	54	-8.63	164	158	42.11	-3.26
#10480.00	48.6	PK	74	-25.4	127	83	54.22	5.62
#10480.00	37.64	AV	54	-16.36	127	83	43.26	5.62
15720	44.65	AV	74	-29.35	127	236	53.38	8.73
15720	32.21	AV	54	-21.79	127	236	40.94	8.73

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5240MHz: Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	60.89	PK	74	-13.11	229	278	56.77	-4.12
5149.9	48.38	AV	54	-5.62	229	278	44.26	-4.12
*5190.00	97.55	PK			220	284	93.54	-4.01
*5190.00	85.62	AV			220	284	81.61	-4.01
#10380.00	48.16	PK	74	-25.84	217	22	53.54	5.38
#10380.00	36.41	AV	54	-17.59	217	22	41.79	5.38
15570	44.41	PK	74	-29.59	151	161	53.16	8.75
15570	32.17	AV	54	-21.83	151	161	40.92	8.75
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	61.25	PK	74	-12.75	135	347	57.13	-4.12
5149.9	50.73	AV	54	-3.27	135	347	46.61	-4.12
*5190.00	97.55	PK			233	40	93.54	-4.01
*5190.00	84.56	AV			233	40	80.55	-4.01
#10380.00	48	PK	74	-26	152	70	53.38	5.38
#10380.00	36.37	AV	54	-17.63	152	70	41.75	5.38
15570	43.63	PK	74	-30.37	207	35	52.38	8.75
15570	32.67	AV	54	-21.33	207	35	41.42	8.75

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5190MHz: Fundamental frequency.



CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.74	PK	74	-17.26	224	84	52.62	-4.12
5149.9	41.69	AV	54	-12.31	224	84	37.57	-4.12
*5230.00	95.52	PK			208	98	91.61	-3.91
*5230.00	83.42	AV			208	98	79.51	-3.91
5350	56.64	PK	74	-17.36	200	125	53.38	-3.26
5350	43.97	AV	54	-10.03	200	125	40.71	-3.26
#10460.00	48.7	PK	74	-25.3	115	157	54.26	5.56
#10460.00	36.42	AV	54	-17.58	115	157	41.98	5.56
15690	44.42	PK	74	-29.58	169	332	53.08	8.66
15690	31.27	AV	54	-22.73	169	332	39.93	8.66
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	56.46	PK	74	-17.54	110	272	52.34	-4.12
5149.9	42.34	AV	54	-11.66	110	272	38.22	-4.12
*5230.00	96.06	PK			146	315	92.15	-3.91
*5230.00	83.3	AV			146	315	79.39	-3.91
5350	56.66	PK	74	-17.34	229	269	53.4	-3.26
5350	45.14	AV	54	-8.86	229	269	41.88	-3.26
#10460.00	48.75	PK	74	-25.25	207	182	54.31	5.56
#10460.00	36.51	AV	54	-17.49	207	182	42.07	5.56
15690	44.13	PK	74	-29.87	128	128	52.79	8.66
15690	33.49	AV	54	-20.51	128	128	42.15	8.66

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor

Margin value = Emission level – Limit value.

2. 5230MHz: Fundamental frequency.



802.11ac (80MHz)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	62.11	PK	74	-11.89	246	277	57.99	-4.12
5149.9	50.31	AV	54	-3.69	246	277	46.19	-4.12
*5210.00	94.49	PK			124	107	90.52	-3.97
*5210.00	83.24	AV			124	107	79.27	-3.97
#10420.00	49.62	PK	74	-24.38	186	44	55.06	5.44
#10420.00	38.64	AV	54	-15.36	186	44	44.08	5.44
15630	43.53	PK	74	-30.47	156	49	52.26	8.73
15630	31.25	AV	54	-22.75	156	49	39.98	8.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5149.9	59.64	PK	74	-14.36	204	53	55.52	-4.12
5149.9	47.52	AV	54	-6.48	204	53	43.4	-4.12
*5210.00	93.55	PK			118	15	89.58	-3.97
*5210.00	81.37	AV			118	15	77.4	-3.97
#10420.00	48.16	PK	74	-25.84	111	72	53.6	5.44
#10420.00	36.87	AV	54	-17.13	111	72	42.31	5.44
15630	44.99	PK	74	-29.01	125	308	53.72	8.73
15630	31.54	AV	54	-22.46	125	308	40.27	8.73

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5210MHz: Fundamental frequency.



Band 2

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5260.00	98.85	PK			132	327	95.01	-3.84
*5260.00	76.75	AV			132	327	72.91	-3.84
5350	56.85	PK	74	-17.15	149	88	53.59	-3.26
5350	43.2	AV	54	-10.8	149	88	39.94	-3.26
10520	54.1	PK	74	-19.9	125	273	59.81	5.71
10520	42.39	AV	54	-11.61	125	273	48.1	5.71
15780	53.92	PK	74	-20.08	243	139	62.87	8.95
15780	40.21	AV	54	-13.79	243	139	49.16	8.95
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5260.00	102.01	PK			153	207	98.17	-3.84
*5260.00	90.74	AV			153	207	86.9	-3.84
5350	56.58	PK	74	-17.42	239	88	53.32	-3.26
5350	43.26	AV	54	-10.74	239	88	40	-3.26
10520	48.83	PK	74	-25.17	232	67	54.54	5.71
10520	36.74	AV	54	-17.26	232	67	42.45	5.71
15780	44.93	PK	74	-29.07	247	226	53.88	8.95
15780	33.16	AV	54	-20.84	247	226	42.11	8.95

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5300.00	94.59	PK			121	0	90.85	-3.74
*5300.00	83.16	AV			121	0	79.42	-3.74
5350	57.03	PK	74	-16.97	159	292	53.77	-3.26
5350	45.81	AV	54	-8.19	159	292	42.55	-3.26
10600	48.39	PK	74	-25.61	159	150	54.22	5.83
10600	36.5	AV	54	-17.5	159	150	42.33	5.83
15900	43.74	PK	74	-30.26	134	294	52.64	8.9
15900	30.62	AV	54	-23.38	134	294	39.52	8.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5300.00	98.89	PK			156	319	95.15	-3.74
*5300.00	86.31	AV			156	319	82.57	-3.74
5350	55.93	PK	74	-18.07	237	228	52.67	-3.26
5350	43.72	AV	54	-10.28	237	228	40.46	-3.26
10600	47.91	PK	74	-26.09	247	345	53.74	5.83
10600	36.31	AV	54	-17.69	247	345	42.14	5.83
15900	43.57	PK	74	-30.43	205	211	52.47	8.9
15900	30.58	AV	54	-23.42	205	211	39.48	8.9

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5320.00	95.19	PK			193	108	91.64	-3.55
*5320.00	83.28	AV			193	108	79.73	-3.55
5350	56.65	PK	74	-17.35	248	130	53.39	-3.26
5350	43.74	AV	54	-10.26	248	130	40.48	-3.26
10640	47.65	PK	74	-26.35	187	105	53.46	5.81
10640	36.54	AV	54	-17.46	187	105	42.35	5.81
15960	43.34	PK	74	-30.66	125	248	52.59	9.25
15960	30.2	AV	54	-23.8	125	248	39.45	9.25
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5320.00	98.85	PK			223	6	95.3	-3.55
*5320.00	86.37	AV			223	6	82.82	-3.55
5350	59.44	PK	74	-14.56	145	122	56.18	-3.26
5350	48.61	AV	54	-5.39	145	122	45.35	-3.26
10640	48.22	PK	74	-25.78	126	209	54.03	5.81
10640	37.1	AV	54	-16.9	126	209	42.91	5.81
15960	43.16	PK	74	-30.84	174	188	52.41	9.25
15960	31.26	AV	54	-22.74	174	188	40.51	9.25

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5320MHz: Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5260.00	99.51	PK			158	178	95.67	-3.84
*5260.00	88.34	AV			158	178	84.5	-3.84
5350	58.03	PK	74	-15.97	127	312	54.77	-3.26
5350	46.31	AV	54	-7.69	127	312	43.05	-3.26
10520	49.27	PK	74	-24.73	240	204	54.98	5.71
10520	37.65	AV	54	-16.35	240	204	43.36	5.71
15780	44.72	PK	74	-29.28	230	46	53.67	8.95
15780	41.39	AV	54	-12.61	230	46	50.34	8.95
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5260.00	96.63	PK			203	212	92.79	-3.84
*5260.00	84.58	AV			203	212	80.74	-3.84
5350	56.62	PK	74	-17.38	192	265	53.36	-3.26
5350	46.93	AV	54	-7.07	192	265	43.67	-3.26
10520	48.41	PK	74	-25.59	151	60	54.12	5.71
10520	36.15	AV	54	-17.85	151	60	41.86	5.71
15780	45.16	PK	74	-28.84	208	110	54.11	8.95
15780	34.98	AV	54	-19.02	208	110	43.93	8.95

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5300.00	97.8	PK			127	229	94.06	-3.74
*5300.00	86.35	AV			127	229	82.61	-3.74
5350	56.69	PK	74	-17.31	172	47	53.43	-3.26
5350	43.32	AV	54	-10.68	172	47	40.06	-3.26
10600	48.37	PK	74	-25.63	187	279	54.2	5.83
10600	36.69	AV	54	-17.31	187	279	42.52	5.83
15900	43.96	PK	74	-30.04	133	349	52.86	8.9
15900	32.51	AV	54	-21.49	133	349	41.41	8.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5300.00	98.7	PK			203	255	94.96	-3.74
*5300.00	86.67	AV			203	255	82.93	-3.74
5350	56.26	PK	74	-17.74	226	297	53	-3.26
5350	45.13	AV	54	-8.87	226	297	41.87	-3.26
10600	48.46	PK	74	-25.54	114	277	54.29	5.83
10600	36.65	AV	54	-17.35	114	277	42.48	5.83
15900	43.59	PK	74	-30.41	169	331	52.49	8.9
15900	32.73	AV	54	-21.27	169	331	41.63	8.9

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5300MHz: Fundamental frequency.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5320.00	97.38	PK			214	156	93.83	-3.55
*5320.00	86.25	AV			214	156	82.7	-3.55
5350	59.18	PK	74	-14.82	234	316	55.92	-3.26
5350	47.31	AV	54	-6.69	234	316	44.05	-3.26
10640	47.54	PK	74	-26.46	226	74	53.35	5.81
10640	36.81	AV	54	-17.19	226	74	42.62	5.81
15960	43.03	PK	74	-30.97	154	309	52.28	9.25
15960	40.21	AV	54	-13.79	154	309	49.46	9.25
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5320.00	99.08	PK			233	89	95.53	-3.55
*5320.00	87.34	AV			233	89	83.79	-3.55
5350	60.85	PK	74	-13.15	200	264	57.59	-3.26
5350	49.35	AV	54	-4.65	200	264	46.09	-3.26
10640	49.04	PK	74	-24.96	171	9	54.85	5.81
10640	37.31	AV	54	-16.69	171	9	43.12	5.81
15960	42.93	PK	74	-31.07	113	263	52.18	9.25
15960	31.74	AV	54	-22.26	113	263	40.99	9.25

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5320MHz: Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5270.00	87.39	PK			141	10	83.57	-3.82
*5270.00	75.31	AV			141	10	71.49	-3.82
5350	54.78	PK	74	-19.22	127	347	51.52	-3.26
5350	42.51	AV	54	-11.49	127	347	39.25	-3.26
10540	48.77	PK	74	-25.23	141	262	54.51	5.74
10540	36.28	AV	54	-17.72	141	262	42.02	5.74
15810	44.98	PK	74	-29.02	237	192	53.99	9.01
15810	31.17	AV	54	-22.83	237	192	40.18	9.01
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5270.00	95.63	PK			134	314	91.81	-3.82
*5270.00	84.34	AV			134	314	80.52	-3.82
5350	56.19	PK	74	-17.81	205	269	52.93	-3.26
5350	43.75	AV	54	-10.25	205	269	40.49	-3.26
10540	49.53	PK	74	-24.47	138	20	55.27	5.74
10540	37.24	AV	54	-16.76	138	20	42.98	5.74
15810	45.44	PK	74	-28.56	223	358	54.45	9.01
15810	32.61	AV	54	-21.39	223	358	41.62	9.01

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5270MHz: Fundamental frequency.

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5310.00	95.37	PK			210	235	91.73	-3.64
*5310.00	83.27	AV			210	235	79.63	-3.64
5350	58.55	PK	74	-15.45	171	9	55.29	-3.26
5350	46.31	AV	54	-7.69	171	9	43.05	-3.26
10620	46.88	PK	74	-27.12	176	176	52.7	5.82
10620	34.95	AV	54	-19.05	176	176	40.77	5.82
15930	43.59	PK	74	-30.41	196	74	52.67	9.08
15930	32.67	AV	54	-21.33	196	74	41.75	9.08
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5310.00	97.32	PK			172	221	93.68	-3.64
*5310.00	86.14	AV			172	221	82.5	-3.64
5350	60.69	PK	74	-13.31	144	243	57.43	-3.26
5350	48.26	AV	54	-5.74	144	243	45	-3.26
10620	47.93	PK	74	-26.07	147	59	53.75	5.82
10620	35.24	AV	54	-18.76	147	59	41.06	5.82
15930	43.05	PK	74	-30.95	216	10	52.13	9.08
15930	30.63	AV	54	-23.37	216	10	39.71	9.08

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5310MHz: Fundamental frequency.



802.11ac (80MHz)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5290.00	93.15	PK			239	100	89.39	-3.76
*5290.00	81.47	AV			239	100	77.71	-3.76
5350	57.21	PK	74	-16.79	160	260	53.95	-3.26
5350	45.83	AV	54	-8.17	160	260	42.57	-3.26
#10580.00	48.75	PK	74	-25.25	181	325	54.54	5.79
#10580.00	36.97	AV	54	-17.03	181	325	42.76	5.79
15870	44.96	PK	74	-29.04	184	327	53.91	8.95
15870	32.46	AV	54	-21.54	184	327	41.41	8.95
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5290.00	94.34	PK			194	77	90.58	-3.76
*5290.00	82.63	AV			194	77	78.87	-3.76
5350	60.3	PK	74	-13.7	199	102	57.04	-3.26
5350	48.52	AV	54	-5.48	199	102	45.26	-3.26
#10580.00	47.3	PK	74	-26.7	112	57	53.09	5.79
#10580.00	35.62	AV	54	-18.38	112	57	41.41	5.79
15870	45.8	PK	74	-28.2	114	295	54.75	8.95
15870	32.35	AV	54	-21.65	114	295	41.3	8.95

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5290MHz: Fundamental frequency.

Band 3

802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	57.12	PK	74	-16.88	181	343	54.93	-2.19
5470	45.62	AV	54	-8.38	181	343	43.43	-2.19
*5500.00	91	PK			169	360	89.07	-1.93
*5500.00	80.31	AV			169	360	78.38	-1.93
11000	48.97	PK	74	-25.03	210	262	54.98	6.01
11000	36.81	AV	54	-17.19	210	262	42.82	6.01
#16500.00	42.71	PK	74	-31.29	207	55	52.81	10.1
#16500.00	30.6	AV	54	-23.4	207	55	40.7	10.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	58.44	PK	74	-15.56	223	294	56.25	-2.19
5470	46.32	AV	54	-7.68	223	294	44.13	-2.19
*5500.00	96.82	PK			174	196	94.89	-1.93
*5500.00	84.5	AV			174	196	82.57	-1.93
11000	49.54	PK	74	-24.46	141	245	55.55	6.01
11000	37.52	AV	54	-16.48	141	245	43.53	6.01
#16500.00	42.85	PK	74	-31.15	217	172	52.95	10.1
#16500.00	30.4	AV	54	-23.6	217	172	40.5	10.1

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	56.57	PK	74	-17.43	208	349	54.38	-2.19
5470	44.37	AV	54	-9.63	208	349	42.18	-2.19
*5580.00	92.46	PK			234	356	90.71	-1.75
*5580.00	80.6	AV			234	356	78.85	-1.75
#5725.00	56.09	PK	74	-17.91	230	67	54.47	-1.62
11160	48.59	PK	74	-25.41	129	194	54.62	6.03
11160	36.7	AV	54	-17.3	129	194	42.73	6.03
#16740.00	40.26	PK	74	-33.74	224	28	50.85	10.59
#16740.00	28.35	AV	54	-25.65	224	28	38.94	10.59
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	56.04	PK	74	-17.96	244	332	53.85	-2.19
5470	44.47	AV	54	-9.53	244	332	42.28	-2.19
*5580.00	97.56	PK			248	170	95.81	-1.75
*5580.00	85.64	AV			248	170	83.89	-1.75
#5725.00	55.85	PK	74	-18.15	145	158	54.23	-1.62
11160	49.04	PK	74	-24.96	178	36	55.07	6.03
11160	38.64	AV	54	-15.36	178	36	44.67	6.03
#16740.00	39.51	PK	74	-34.49	147	33	50.1	10.59
#16740.00	27.63	AV	54	-26.37	147	33	38.22	10.59

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5700.00	94.3	PK			125	219	92.6	-1.7
*5700.00	82.7	AV			125	219	81	-1.7
#5725.00	61.2	PK	74	-12.8	246	119	59.58	-1.62
11400	50.62	PK	74	-23.38	226	346	56.83	6.21
11400	38.73	AV	54	-15.27	226	346	44.94	6.21
#17100.00	43.05	PK	74	-30.95	236	218	54.24	11.19
#17100.00	31.69	AV	54	-22.31	236	218	42.88	11.19
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5700.00	100.98	PK			222	106	99.28	-1.7
*5700.00	88.24	AV			222	106	86.54	-1.7
#5725.00	65.63	PK	74	-8.37	139	214	64.01	-1.62
11400	50.17	PK	74	-23.83	131	247	56.38	6.21
11400	37.43	AV	54	-16.57	131	247	43.64	6.21
#17100.00	42.16	PK	74	-31.84	164	117	53.35	11.19
#17100.00	30.25	AV	54	-23.75	164	117	41.44	11.19

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5720.00	99.15	PK			117	211	97.51	-1.64
*5720.00	88.91	AV			117	211	87.27	-1.64
11440	52.11	PK	74	-21.89	137	349	55.19	6.43
11440	42.48	AV	54	-11.52	137	349	45.39	6.43
#17160.00	43.14	PK	74	-30.86	242	22	52.03	11.51
#17160.00	33.46	AV	54	-20.54	242	22	42.36	11.51
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5720.00	101.96	PK			112	291	100.32	-1.64
*5720.00	91.25	AV			112	291	89.61	-1.64
11440	47.4	PK	74	-26.6	193	318	54.61	6.43
11440	37.49	AV	54	-16.51	193	318	44.96	6.43
#17160.00	43.34	PK	74	-30.66	191	275	53.91	11.51
#17160.00	33.51	AV	54	-20.49	191	275	44.28	11.51

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.

802.11n (20MHz)

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	58.24	PK	74	-15.76	173	221	56.05	-2.19
5470	47.35	AV	54	-6.65	173	221	45.16	-2.19
*5500.00	96.76	PK			147	160	94.83	-1.93
*5500.00	84.12	AV			147	160	82.19	-1.93
11000	50.23	PK	74	-23.77	131	181	56.24	6.01
11000	38.27	AV	54	-15.73	131	181	44.28	6.01
#16500.00	42.83	PK	74	-31.17	175	133	52.93	10.1
#16500.00	31.62	AV	54	-22.38	175	133	41.72	10.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	56.26	PK	74	-17.74	137	226	54.07	-2.19
5470	42.31	AV	54	-11.69	137	226	40.12	-2.19
*5500.00	94.46	PK			132	234	92.53	-1.93
*5500.00	81.69	AV			132	234	79.76	-1.93
11000	48.95	PK	74	-25.05	193	257	54.96	6.01
11000	36.37	AV	54	-17.63	193	257	42.38	6.01
#16500.00	42.89	PK	74	-31.11	132	181	52.99	10.1
#16500.00	40.86	AV	54	-13.14	132	181	50.96	10.1

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	56.16	PK	74	-17.84	219	350	53.97	-2.19
5470	44.72	AV	54	-9.28	219	350	42.53	-2.19
*5580.00	97.94	PK			226	164	96.19	-1.75
*5580.00	84.61	AV			226	164	82.86	-1.75
#5725.00	56.09	PK	74	-17.91	215	358	54.47	-1.62
11160	49.23	PK	74	-24.77	204	196	55.26	6.03
11160	37.31	AV	54	-16.69	204	196	43.34	6.03
#16740.00	40.1	PK	74	-33.9	229	250	50.69	10.59
#16740.00	28.72	AV	54	-25.28	229	250	39.31	10.59
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	56.05	PK	74	-17.95	130	101	53.86	-2.19
5470	44.24	AV	54	-9.76	130	101	42.05	-2.19
*5580.00	98.51	PK			218	10	96.76	-1.75
*5580.00	86.34	AV			218	10	84.59	-1.75
#5725.00	56.28	PK	74	-17.72	199	330	54.66	-1.62
11160	50.41	PK	74	-23.59	180	168	56.44	6.03
11160	38.36	AV	54	-15.64	180	168	44.39	6.03
#16740.00	40.22	PK	74	-33.78	201	154	50.81	10.59
#16740.00	29.35	AV	54	-24.65	201	154	39.94	10.59

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5700.00	97.27	PK			129	332	95.57	-1.7
*5700.00	85.38	AV			129	332	83.68	-1.7
#5725.00	63.43	PK	74	-10.57	166	215	61.81	-1.62
11400	50.26	PK	74	-23.74	152	105	56.47	6.21
11400	38.34	AV	54	-15.66	152	105	44.55	6.21
#17100.00	42.59	PK	74	-31.41	219	332	53.78	11.19
#17100.00	31.82	AV	54	-22.18	219	332	43.01	11.19
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5700.00	99.01	PK			126	186	97.31	-1.7
*5700.00	87.21	AV			126	186	85.51	-1.7
#5725.00	63.17	PK	74	-10.83	228	36	61.55	-1.62
11400	49.28	PK	74	-24.72	120	97	55.49	6.21
11400	37.39	AV	54	-16.61	120	97	43.6	6.21
#17100.00	43.36	PK	74	-30.64	241	101	54.55	11.19
#17100.00	32.65	AV	54	-21.35	241	101	43.84	11.19

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5720.00	97.91	PK			130	305	96.27	-1.64
*5720.00	88.64	AV			130	305	86.92	-1.64
11440	52.96	PK	74	-21.04	206	153	56.85	6.43
11440	43.67	AV	54	-10.33	206	153	47.44	6.43
#17160.00	44.41	PK	74	-29.59	141	173	54.2	11.51
#17160.00	35.38	AV	54	-18.62	141	173	44.69	11.51
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5720.00	101.51	PK			196	58	99.87	-1.64
*5720.00	91.53	AV			196	58	89.96	-1.64
11440	48.93	PK	74	-25.07	185	276	58.63	6.43
11440	39.53	AV	54	-14.47	185	276	49.37	6.43
#17160.00	42.54	PK	74	-31.46	246	181	54.44	11.51
#17160.00	33.22	AV	54	-20.78	246	181	44.58	11.51

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.

802.11n (40MHz)

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
5470	59.32	PK	74	-14.68	243	283	57.13	-2.19
5470	47.41	AV	54	-6.59	243	283	45.22	-2.19
*5510.00	93.63	PK			139	77	91.72	-1.91
*5510.00	80.35	AV			139	77	78.44	-1.91
11020	48.96	PK	74	-25.04	174	206	54.98	6.02
11020	36.35	AV	54	-17.65	174	206	42.37	6.02
#16530.00	41.75	PK	74	-32.25	222	270	51.91	10.16
#16530.00	29.97	AV	54	-24.03	222	270	40.13	10.16
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
5470	58.88	PK	74	-15.12	238	223	56.69	-2.19
5470	46.34	AV	54	-7.66	238	223	44.15	-2.19
*5510.00	93.58	PK			167	211	91.67	-1.91
*5510.00	80.47	AV			167	211	78.56	-1.91
11020	49.47	PK	74	-24.53	145	108	55.49	6.02
11020	37.32	AV	54	-16.68	145	108	43.34	6.02
#16530.00	42.53	PK	74	-31.47	171	121	52.69	10.16
#16530.00	29.81	AV	54	-24.19	171	121	39.97	10.16

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5550.00	92.61	PK			184	320	90.79	-1.82
*5550.00	80.72	AV			184	320	78.9	-1.82
#5725.00	55.6	PK	74	-18.4	128	301	53.98	-1.62
11100	49.97	PK	74	-24.03	229	266	56.03	6.06
11100	37.36	AV	54	-16.64	229	266	43.42	6.06
#16650.00	40.37	PK	74	-33.63	191	107	50.76	10.39
#16650.00	28.59	AV	54	-25.41	191	107	38.98	10.39
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5550.00	93.69	PK			118	236	91.87	-1.82
*5550.00	82.41	AV			118	236	80.59	-1.82
#5725.00	55.3	PK	74	-18.7	205	19	53.68	-1.62
11100	48.63	PK	74	-25.37	193	201	54.69	6.06
11100	36.74	AV	54	-17.26	193	201	42.8	6.06
#16650.00	40.03	PK	74	-33.97	205	354	50.42	10.39
#16650.00	28.65	AV	54	-25.35	205	354	39.04	10.39

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5550MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5670.00	95.29	PK			212	31	93.59	-1.7
*5670.00	83.47	AV			212	31	81.77	-1.7
#5725.00	57.64	PK	74	-16.36	224	27	56.02	-1.62
11340	48.83	PK	74	-25.17	178	138	54.89	6.06
11340	36.29	AV	54	-17.71	178	138	42.35	6.06
#17010.00	40.44	PK	74	-33.56	247	233	51.23	10.79
#17010.00	27.34	AV	54	-26.66	247	233	38.13	10.79
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5670.00	97.07	PK			185	183	95.37	-1.7
*5670.00	84.36	AV			185	183	82.66	-1.7
#5725.00	55.49	PK	74	-18.51	205	102	53.87	-1.62
11340	48.52	PK	74	-25.48	220	300	54.58	6.06
11340	36.27	AV	54	-17.73	220	300	42.33	6.06
#17010.00	39.71	PK	74	-34.29	151	141	50.5	10.79
#17010.00	26.82	AV	54	-27.18	151	141	37.61	10.79

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5710.00	95.15	PK			219	142	93.48	-1.67
*5710.00	85.7	AV			219	142	83.92	-1.67
11420	47.21	PK	74	-26.79	178	310	55.53	6.32
11420	37.21	AV	54	-16.79	178	310	45.72	6.32
#17130.00	42.34	PK	74	-31.66	172	272	52.95	11.34
#17130.00	32.84	AV	54	-21.16	172	272	42.96	11.34
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5710.00	98.94	PK			172	176	97.27	-1.67
*5710.00	89.27	AV			172	176	87.76	-1.67
11420	52.47	PK	74	-21.53	117	212	54.53	6.32
11420	43.34	AV	54	-10.66	117	212	45.11	6.32
#17130.00	42.29	PK	74	-31.71	238	259	54.83	11.34
#17130.00	32.86	AV	54	-21.14	238	259	45.38	11.34

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5710MHz: Fundamental frequency.
- #: Out of restricted band.



802.11ac (80MHz)

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	58.22	PK	74	-15.78	192	268	56.03	-2.19
5470	46.31	AV	54	-7.69	192	268	44.12	-2.19
*5530.00	89.36	PK			155	331	87.5	-1.86
*5530.00	77.49	AV			155	331	75.63	-1.86
#5725.00	55.37	PK	74	-18.63	149	84	53.75	-1.62
11060	49.62	PK	74	-24.38	181	29	55.66	6.04
11060	37.68	AV	54	-16.32	181	29	43.72	6.04
#16590.00	41.19	PK	74	-32.81	161	310	51.46	10.27
#16590.00	29.72	AV	54	-24.28	161	310	39.99	10.27
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	58.55	PK	74	-15.45	159	289	56.36	-2.19
5470	46.36	AV	54	-7.64	159	289	44.17	-2.19
*5530.00	90.84	PK			206	197	88.98	-1.86
*5530.00	78.72	AV			206	197	76.86	-1.86
#5725.00	55.7	PK	74	-18.3	217	36	54.08	-1.62
11060	49.38	PK	74	-24.62	195	151	55.42	6.04
11060	37.56	AV	54	-16.44	195	151	43.6	6.04
#16590.00	41.66	PK	74	-32.34	113	5	51.93	10.27
#16590.00	38.63	AV	54	-15.37	113	5	48.9	10.27

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5530MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	56.24	PK	74	-17.76	243	51	54.05	-2.19
5470	44.63	AV	54	-9.37	243	51	42.44	-2.19
*5610.00	91.79	PK			169	348	90.08	-1.71
*5610.00	78.34	AV			184	81	76.63	-1.71
#5725.00	56.42	PK	74	-17.58	184	81	54.8	-1.62
11220	49.26	PK	74	-24.74	219	257	55.26	6
11220	37.26	AV	54	-16.74	219	257	43.26	6
#16830.00	39.69	PK	74	-34.31	123	185	50.43	10.74
#16830.00	27.83	AV	54	-26.17	123	185	38.57	10.74
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
5470	57.58	PK	74	-16.42	204	280	55.39	-2.19
5470	45.28	AV	54	-8.72	204	280	43.09	-2.19
*5610.00	92.36	PK			162	218	90.65	-1.71
*5610.00	80.34	AV			223	138	78.63	-1.71
#5725.00	55.59	PK	74	-18.41	223	138	53.97	-1.62
11220	49.35	PK	74	-24.65	215	124	55.35	6
11220	37.26	AV	54	-16.74	215	124	43.26	6
#16830.00	40.25	PK	74	-33.75	189	286	50.99	10.74
#16830.00	29.72	AV	54	-24.28	189	286	40.46	10.74

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5610MHz: Fundamental frequency.
- #: Out of restricted band.

CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5690.00	93.05	PK			152	315	91.36	-1.69
*5690.00	83.92	AV			152	315	81.88	-1.69
11380	47.03	PK	74	-26.97	118	90	53.51	6.16
11380	37.82	AV	54	-16.18	118	90	44.49	6.16
#17070.00	43.35	PK	74	-30.65	194	225	55.63	11.06
#17070.00	34.32	AV	54	-19.68	194	225	46.11	11.06
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
*5690.00	95.49	PK			132	215	93.8	-1.69
*5690.00	85.83	AV			132	215	84.03	-1.69
11380	52.38	PK	74	-21.62	137	58	54.66	6.16
11380	43.22	AV	54	-10.78	137	58	45.37	6.16
#17070.00	42.75	PK	74	-31.25	234	249	51.4	11.06
#17070.00	33.24	AV	54	-20.76	234	249	41.95	11.06

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.



Band 4:

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	56.95	PK	74	-17.05	192	151	55.25	-1.7
#5700.00	56	PK	74	-18	220	15	54.3	-1.7
#5720.00	61.74	PK	74	-12.26	194	313	60.1	-1.64
#5725.00	66.11	PK	74	-7.89	121	62	64.49	-1.62
*5745.00	95.84	PK			250	295	94.29	-1.55
*5745.00	83.31	AV			250	295	81.76	-1.55
11490	48.9	PK	74	-25.1	159	176	55.61	6.71
11490	36.25	AV	54	-17.75	159	176	42.96	6.71
#17235.00	40.66	PK	74	-33.34	179	127	52.47	11.81
#17235.00	37.53	AV	54	-16.47	179	127	49.34	11.81
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	55.88	PK	74	-18.12	213	175	54.18	-1.7
#5700.00	56.6	PK	74	-17.4	239	163	54.9	-1.7
#5720.00	65.76	PK	74	-8.24	193	318	64.12	-1.64
#5725.00	69.19	PK	74	-4.81	170	335	67.57	-1.62
*5745.00	99.62	PK			116	124	98.07	-1.55
*5745.00	87.64	AV			116	124	86.09	-1.55
11490	49.47	PK	74	-24.53	234	29	56.18	6.71
11490	37.62	AV	54	-16.38	234	29	44.33	6.71
#17235.00	40.98	PK	74	-33.02	158	223	52.79	11.81
#17235.00	28.27	AV	54	-25.73	158	223	40.08	11.81

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.



CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
#5650.00	56.42	PK	74	-17.58	237	282	54.72	-1.7
#5700.00	55.82	PK	74	-18.18	230	258	54.12	-1.7
#5720.00	55.69	PK	74	-18.31	200	154	54.05	-1.64
#5725.00	56.28	PK	74	-17.72	208	44	54.66	-1.62
*5785.00	96.03	PK			126	125	94.61	-1.42
*5785.00	85.34	AV			126	125	83.92	-1.42
#5850.00	56.08	PK	74	-17.92	195	309	54.66	-1.42
#5855.00	56.99	PK	74	-17.01	195	309	55.57	-1.42
#5875.00	56.78	PK	74	-17.22	248	234	55.34	-1.44
#5925.00	56.6	PK	74	-17.4	248	234	55.03	-1.57
11570	55.59	PK	74	-18.41	124	34	62.35	6.76
11570	43.28	AV	54	-10.72	124	34	50.04	6.76
#17355.00	52.55	PK	74	-21.45	117	225	64.8	12.25
#17355.00	40.26	AV	54	-13.74	117	225	52.51	12.25



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	55.44	PK	74	-18.56	204	101	53.74	-1.7
#5700.00	55.44	PK	74	-18.56	197	41	53.74	-1.7
#5720.00	56.09	PK	74	-17.91	243	164	54.45	-1.64
#5725.00	56.15	PK	74	-17.85	200	91	54.53	-1.62
*5785.00	99.78	PK			120	306	98.36	-1.42
*5785.00	88.23	AV			120	306	86.81	-1.42
#5850.00	57.67	PK	74	-16.33	190	195	56.25	-1.42
#5855.00	58.45	PK	74	-15.55	190	195	57.03	-1.42
#5875.00	57.59	PK	74	-16.41	233	120	56.15	-1.44
#5925.00	57.15	PK	74	-16.85	233	120	55.58	-1.57
11570	49.52	PK	74	-24.48	206	10	56.28	6.76
11570	38.34	AV	54	-15.66	206	10	45.1	6.76
#17355.00	40.99	PK	74	-33.01	232	7	53.24	12.25
#17355.00	28.61	AV	54	-25.39	232	7	40.86	12.25

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5825.00	95.61	PK			249	126	94.22	-1.39
*5825.00	83.37	AV			249	126	81.98	-1.39
#5850.00	61.68	PK	74	-12.32	146	114	60.26	-1.42
#5855.00	57.59	PK	74	-16.41	158	84	56.17	-1.42
#5875.00	56.57	PK	74	-17.43	177	326	55.13	-1.44
#5925.00	56.92	PK	74	-17.08	204	348	55.35	-1.57
11650	48.19	PK	74	-25.81	238	296	54.79	6.6
11650	37.23	AV	54	-16.77	238	296	43.83	6.6
#17475.00	41.04	PK	74	-32.96	202	138	53.78	12.74
#17475.00	28.9	AV	54	-25.1	202	138	41.64	12.74
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5825.00	99.62	PK			210	36	98.23	-1.39
*5825.00	87.54	AV			210	36	86.15	-1.39
#5850.00	63.17	PK	74	-10.83	127	342	61.75	-1.42
#5855.00	58.12	PK	74	-15.88	231	248	56.7	-1.42
#5875.00	56.83	PK	74	-17.17	188	286	55.39	-1.44
#5925.00	57.02	PK	74	-16.98	170	309	55.45	-1.57
11650	48.61	PK	74	-25.39	161	243	55.21	6.6
11650	36.43	AV	54	-17.57	161	243	43.03	6.6
#17475.00	40.96	PK	74	-33.04	215	184	53.7	12.74
#17475.00	28.91	AV	54	-25.09	215	184	41.65	12.74

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	56.74	PK	74	-17.26	249	336	55.04	-1.7
#5700.00	56.2	PK	74	-17.8	243	153	54.5	-1.7
#5720.00	64.43	PK	74	-9.57	192	246	62.79	-1.64
#5725.00	70.45	PK	74	-3.55	197	131	68.83	-1.62
*5745.00	98.62	PK			229	8	97.07	-1.55
*5745.00	86.34	AV			229	8	84.79	-1.55
11490	49.45	PK	74	-24.55	197	90	56.16	6.71
11490	36.13	AV	54	-17.87	197	90	42.84	6.71
#17235.00	41.16	PK	74	-32.84	245	248	52.97	11.81
#17235.00	29.26	AV	54	-24.74	245	248	41.07	11.81
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	55.43	PK	74	-18.57	166	256	53.73	-1.7
#5700.00	56.41	PK	74	-17.59	236	164	54.71	-1.7
#5720.00	64.23	PK	74	-9.77	193	264	62.59	-1.64
#5725.00	69.43	PK	74	-4.57	245	103	67.81	-1.62
*5745.00	98.01	PK			118	138	96.46	-1.55
*5745.00	87.64	AV			118	138	86.09	-1.55
11490	49.23	PK	74	-24.77	112	166	55.94	6.71
11490	37.58	AV	54	-16.42	112	166	44.29	6.71
#17235.00	41.59	PK	74	-32.41	200	147	53.4	11.81
#17235.00	30.27	AV	54	-23.73	200	147	42.08	11.81

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
#5650.00	56.06	PK	74	-17.94	235	40	54.36	-1.7
#5700.00	55.46	PK	74	-18.54	225	140	53.76	-1.7
#5720.00	55.46	PK	74	-18.54	240	330	53.82	-1.64
#5725.00	55.87	PK	74	-18.13	117	101	54.25	-1.62
*5785.00	96.49	PK			246	4	95.07	-1.42
*5785.00	84.36	AV			246	4	82.94	-1.42
#5850.00	56.39	PK	74	-17.61	153	229	54.97	-1.42
#5855.00	56.99	PK	74	-17.01	153	229	55.57	-1.42
#5875.00	56.36	PK	74	-17.64	112	337	54.92	-1.44
#5925.00	56.2	PK	74	-17.8	112	337	54.63	-1.57
11570	48.87	PK	74	-25.13	151	247	55.63	6.76
11570	37.24	AV	54	-16.76	151	247	44	6.76
#17355.00	41.66	PK	74	-32.34	150	10	53.91	12.25
#17355.00	30.69	AV	54	-23.31	150	10	42.94	12.25



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	52.47	PK	74	-21.53	153	129	50.77	-1.7
#5700.00	53.64	PK	74	-20.36	218	148	51.94	-1.7
#5720.00	54.37	PK	74	-19.63	133	49	52.73	-1.64
#5725.00	52.92	PK	74	-21.08	113	54	51.3	-1.62
*5785.00	90.68	PK			250	280	89.26	-1.42
*5785.00	78.34	AV			250	280	76.92	-1.42
#5850.00	54.08	PK	74	-19.92	234	191	52.66	-1.42
#5855.00	54.59	PK	74	-19.41	234	191	53.17	-1.42
#5875.00	53.62	PK	74	-20.38	224	314	52.18	-1.44
#5925.00	54.06	PK	74	-19.94	224	314	52.49	-1.57
11570	48.13	PK	74	-25.87	119	124	54.89	6.76
11570	36.71	AV	54	-17.29	119	124	43.47	6.76
#17355.00	40.49	PK	74	-33.51	137	195	52.74	12.25
#17355.00	28.25	AV	54	-25.75	137	195	40.5	12.25

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5825.00	96.87	PK			121	282	95.48	-1.39
*5825.00	84.39	AV			121	282	83	-1.39
#5850.00	62.26	PK	74	-11.74	249	180	60.84	-1.42
#5855.00	58.16	PK	74	-15.84	135	26	56.74	-1.42
#5875.00	56.24	PK	74	-17.76	168	180	54.8	-1.44
#5925.00	56.82	PK	74	-17.18	204	323	55.25	-1.57
11650	47.8	PK	74	-26.2	139	72	54.4	6.6
11650	36.21	AV	54	-17.79	139	72	42.81	6.6
#17475.00	40.68	PK	74	-33.32	230	334	53.42	12.74
#17475.00	28.92	AV	54	-25.08	230	334	41.66	12.74
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5825.00	97.96	PK			213	289	96.57	-1.39
*5825.00	85.26	AV			213	289	83.87	-1.39
#5850.00	64.21	PK	74	-9.79	232	303	62.79	-1.42
#5855.00	58.73	PK	74	-15.27	211	276	57.31	-1.42
#5875.00	56.85	PK	74	-17.15	244	126	55.41	-1.44
#5925.00	56.19	PK	74	-17.81	227	1	54.62	-1.57
11650	47.88	PK	74	-26.12	223	297	54.48	6.6
11650	35.48	AV	54	-18.52	223	297	42.08	6.6
#17475.00	41.51	PK	74	-32.49	124	133	54.25	12.74
#17475.00	30.41	AV	54	-23.59	124	133	43.15	12.74

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	56.54	PK	74	-17.46	143	337	54.84	-1.7
#5700.00	56.56	PK	74	-17.44	110	211	54.86	-1.7
#5720.00	63.15	PK	74	-10.85	213	134	61.51	-1.64
#5725.00	64.62	PK	74	-9.38	153	210	63	-1.62
*5755.00	93.3	PK			195	193	91.78	-1.52
*5755.00	81.74	AV			195	193	80.22	-1.52
11510	49.42	PK	74	-24.58	111	80	56.18	6.76
11510	36.34	AV	54	-17.66	111	80	43.1	6.76
#17265.00	41.99	PK	74	-32.01	141	247	53.86	11.87
#17265.00	28.84	AV	54	-25.16	141	247	40.71	11.87
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	55.84	PK	74	-18.16	223	278	54.14	-1.7
#5700.00	54.72	PK	74	-19.28	237	252	53.02	-1.7
#5720.00	61.28	PK	74	-12.72	166	275	59.64	-1.64
#5725.00	65.24	PK	74	-8.76	124	100	63.62	-1.62
*5755.00	93.46	PK			215	225	91.94	-1.52
*5755.00	81.72	AV			215	225	80.2	-1.52
11510	48.99	PK	74	-25.01	173	64	55.75	6.76
11510	36.67	AV	54	-17.33	173	64	43.43	6.76
#17265.00	41.21	PK	74	-32.79	243	5	53.08	11.87
#17265.00	29.51	AV	54	-24.49	243	5	41.38	11.87

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5755MHz: Fundamental frequency.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5795.00	93.84	PK			113	345	92.45	-1.39
*5795.00	81.46	AV			113	345	80.07	-1.39
#5850.00	55.88	PK	74	-18.12	198	207	54.46	-1.42
#5855.00	55.92	PK	74	-18.08	191	234	54.5	-1.42
#5875.00	56.66	PK	74	-17.34	164	112	55.22	-1.44
#5925.00	56.24	PK	74	-17.76	141	101	54.67	-1.57
11590	49.03	PK	74	-24.97	140	269	55.79	6.76
11590	37.48	AV	54	-16.52	140	269	44.24	6.76
#17385.00	41.04	PK	74	-32.96	116	205	53.45	12.41
#17385.00	29.37	AV	54	-24.63	116	205	41.78	12.41
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSIO N LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/ m)	MARGI N (dB)	ANTENN A HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTIO N FACTOR (dB/m)
*5795.00	94.13	PK			188	32	92.74	-1.39
*5795.00	82.35	AV			188	32	80.96	-1.39
#5850.00	56.49	PK	74	-17.51	218	213	55.07	-1.42
#5855.00	56.66	PK	74	-17.34	195	204	55.24	-1.42
#5875.00	57.15	PK	74	-16.85	115	111	55.71	-1.44
#5925.00	57.26	PK	74	-16.74	223	335	55.69	-1.57
11590	48.76	PK	74	-25.24	239	7	55.52	6.76
11590	35.68	AV	54	-18.32	239	7	42.44	6.76
#17385.00	40.19	PK	74	-33.81	137	158	52.6	12.41
#17385.00	28.65	AV	54	-25.35	137	158	41.06	12.41

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5795MHz: Fundamental frequency.

802.11ac (80MHz)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	56.05	PK	74	-17.95	188	189	54.35	-1.7
#5700.00	57.64	PK	74	-16.36	142	206	55.94	-1.7
#5720.00	59.28	PK	74	-14.72	116	123	57.64	-1.64
#5725.00	61.98	PK	74	-12.02	213	240	60.36	-1.62
*5775.00	92.2	PK			184	247	90.68	-1.52
*5775.00	80.25	AV			184	247	78.73	-1.52
#5850.00	57.26	PK	74	-16.74	217	108	55.84	-1.42
#5855.00	56.83	PK	74	-17.17	170	134	55.41	-1.42
#5875.00	56.76	PK	74	-17.24	204	281	55.32	-1.44
#5950.00	56.45	PK	74	-17.55	163	337	54.88	-1.57
11550	48.94	PK	74	-25.06	153	200	55.7	6.76
11550	36.77	AV	54	-17.23	153	200	43.53	6.76
#17325.00	40.67	PK	74	-33.33	241	169	52.76	12.09
#17325.00	28.62	AV	54	-25.38	241	169	40.71	12.09

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
#5650.00	56.12	PK	74	-17.88	188	78	54.42	-1.7
#5700.00	57.51	PK	74	-16.49	136	309	55.81	-1.7
#5720.00	58.93	PK	74	-15.07	123	173	57.29	-1.64
#5725.00	60.43	PK	74	-13.57	116	226	58.81	-1.62
*5775.00	92.85	PK			161	114	91.33	-1.52
*5775.00	81.37	AV			161	114	79.85	-1.52
#5850.00	58.31	PK	74	-15.69	133	39	56.89	-1.42
#5855.00	57.63	PK	74	-16.37	124	222	56.21	-1.42
#5875.00	56.53	PK	74	-17.47	168	17	55.09	-1.44
#5950.00	57.38	PK	74	-16.62	134	123	55.81	-1.57
11550	49.62	PK	74	-24.38	139	217	56.38	6.76
11550	37.76	AV	54	-16.24	139	217	44.52	6.76
#17325.00	43.28	PK	74	-30.72	235	125	55.37	12.09
#17325.00	32.91	AV	54	-21.09	235	125	45	12.09

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

Note: Radiated Emission AND BANDEDGE Measurement Test was performed by **Lab B**.

3.2 OUT OF BAND EMISSION MEASUREMENT

3.2.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)
	15.407(b)(1)	-27
	15.407(b)(2)	
	15.407(b)(3)	
	15.407(b)(4)	See note

NOTE:

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 24,19	Jun. 23,20
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 24,19	Jun. 23,20

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF OVEN ROOM.
3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.2.3 TEST PROCEDURES

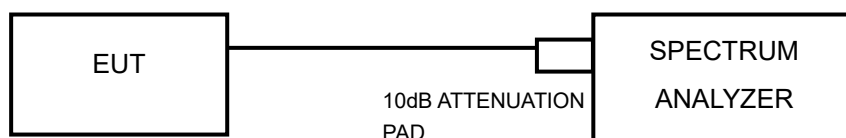
- a. Check the calibration of the measurement instrument using either an internal calibrator or a known signal from an external generator.
- b. The resolution bandwidth is set to 1MHzThe Video bandwidth is set to ≥ 1 MHz, report the peak value out of oprating band.
- c. Repeat above procedures until all frequencies measured wre complete.

NOTE: All modes of operation were investigated and the worst-case emissions are reported,antenna gain was added into the test result.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



3.2.6 EUT OPERATING CONDITION

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

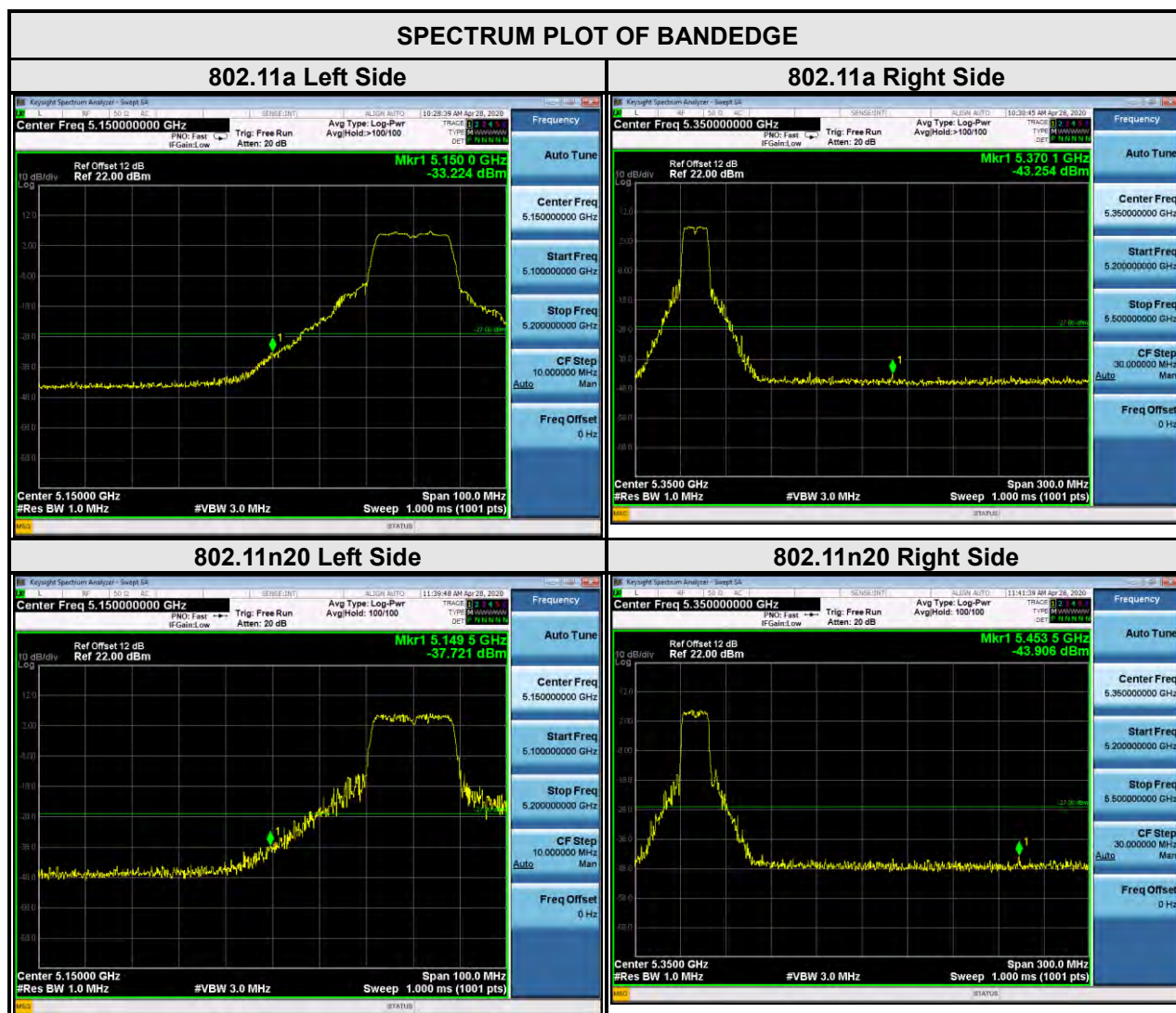


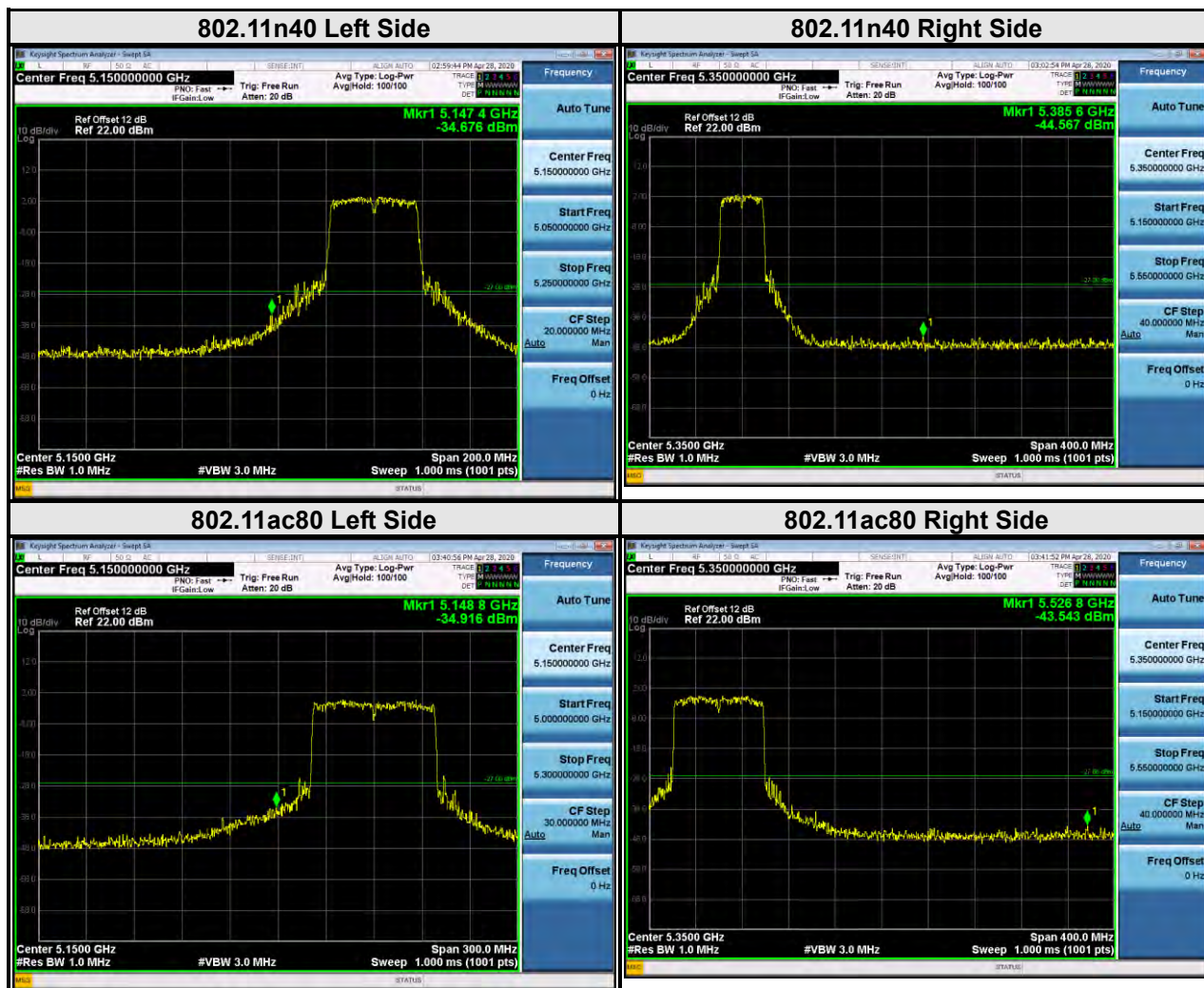
BUREAU
VERITAS

Test Report No.: RF200324W001-3

3.2.7 TEST RESULTS

For U-NII-1:







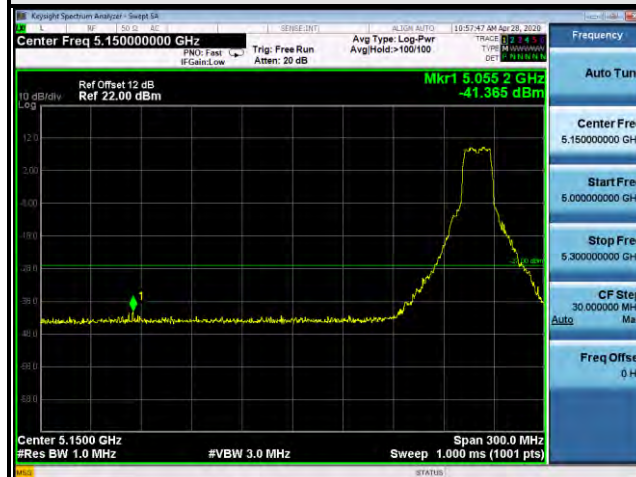
BUREAU
VERITAS

Test Report No.: RF200324W001-3

For U-NII-2A:

SPECTRUM PLOT OF BANDEDGE

802.11a Left Side



802.11a Right Side

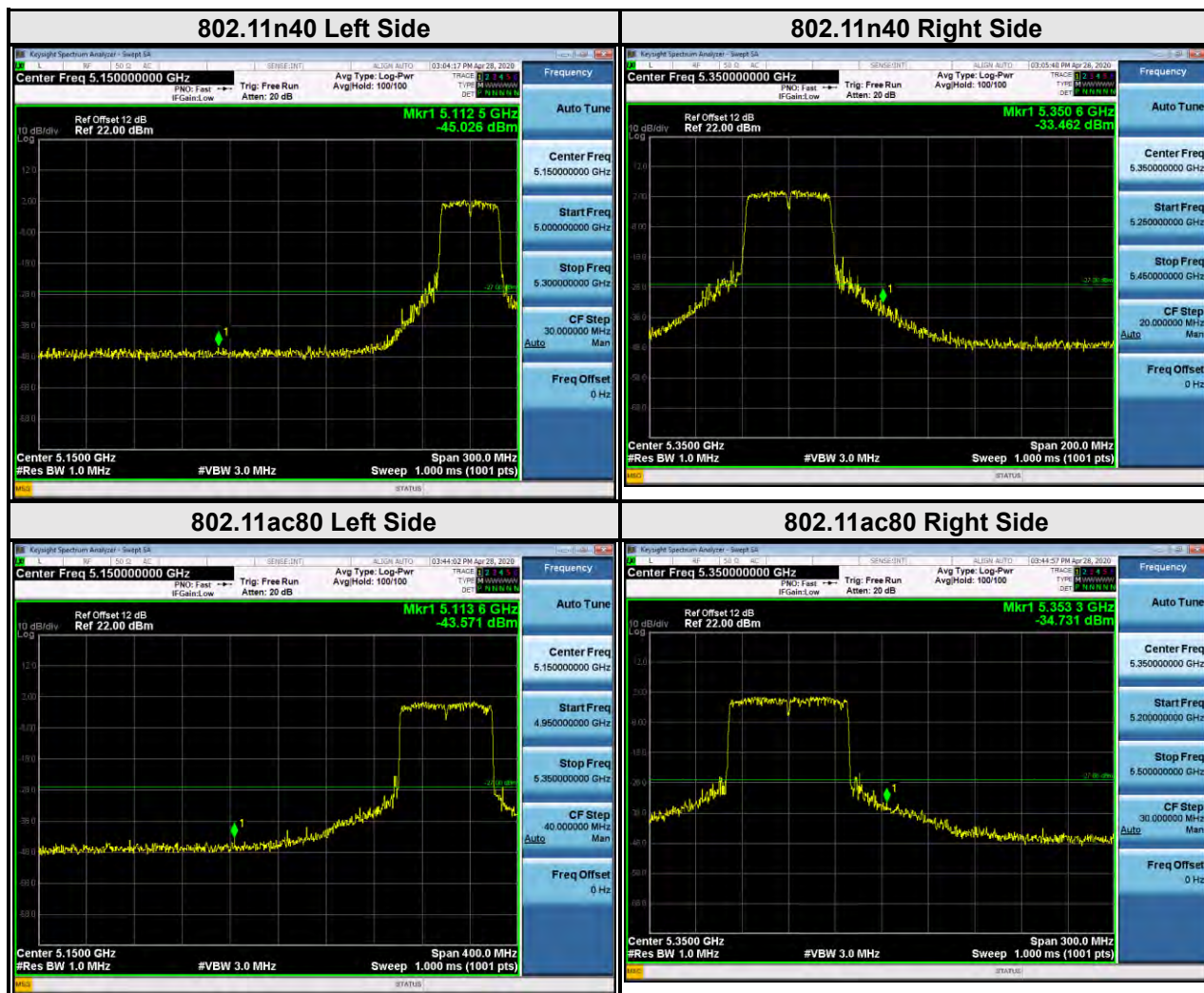


802.11n20 Left Side



802.11n20 Right Side







BUREAU
VERITAS

Test Report No.: RF200324W001-3

For U-NII-2C:

SPECTRUM PLOT OF BANDEDGE

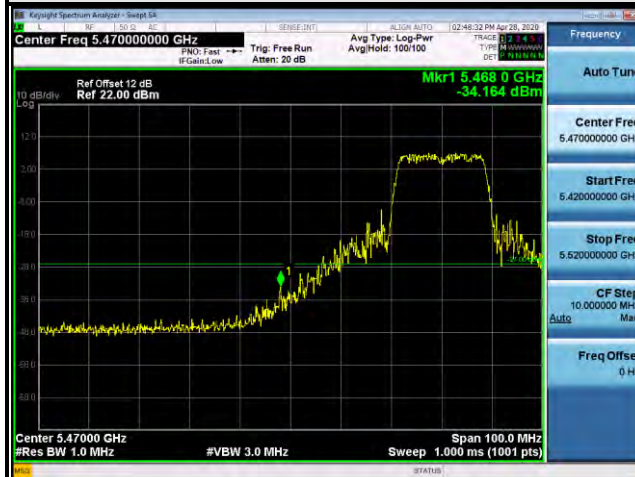
802.11a Left Side



802.11a Right Side

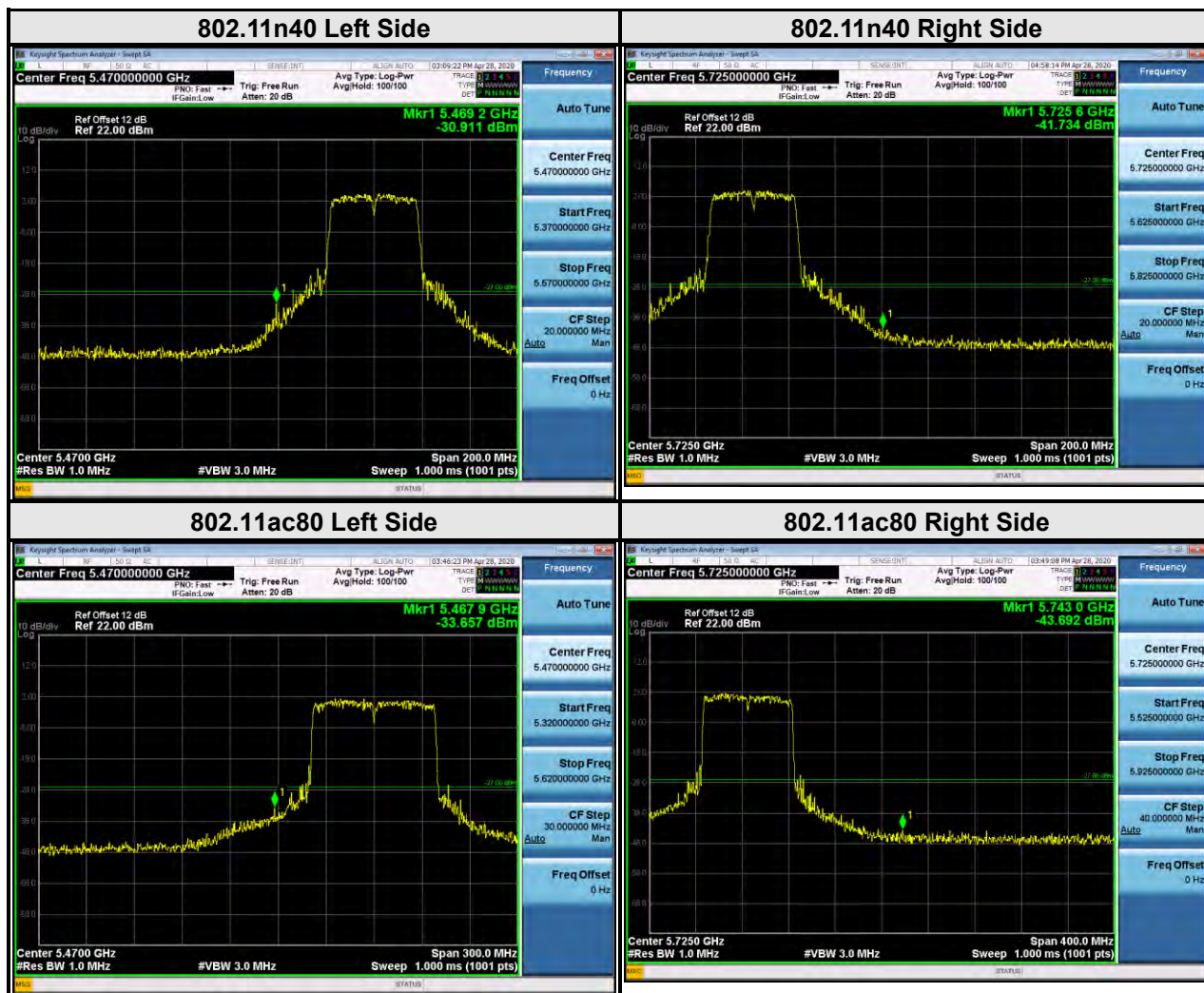


802.11n20 Left Side



802.11n20 Right Side







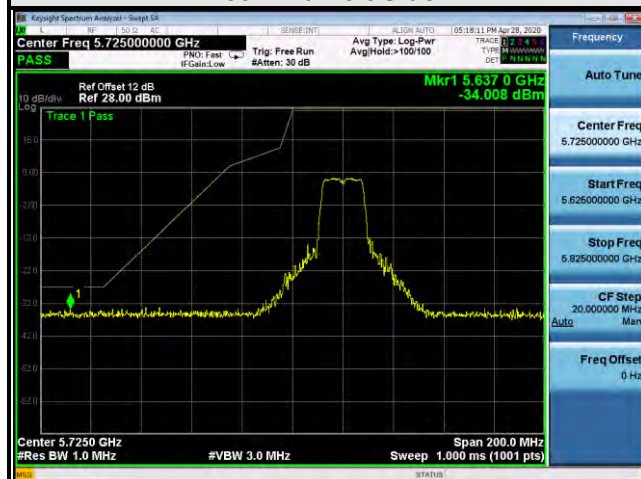
BUREAU
VERITAS

Test Report No.: RF200324W001-3

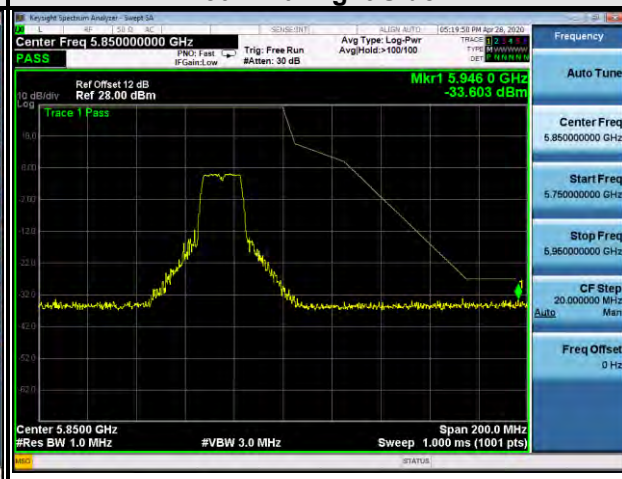
For U-NII-3:

SPECTRUM PLOT OF BANDEDGE

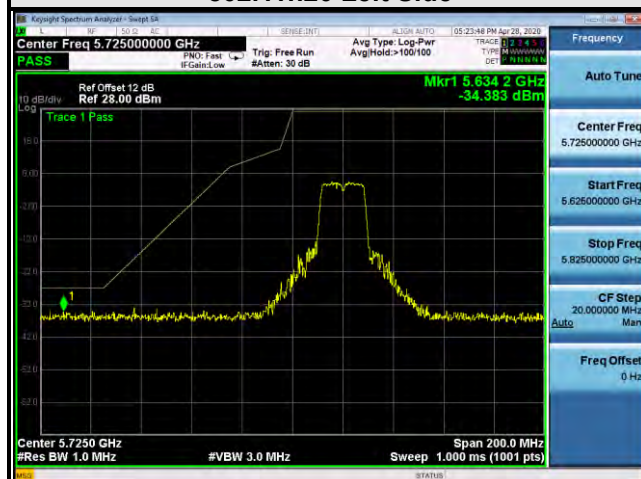
802.11a Left Side



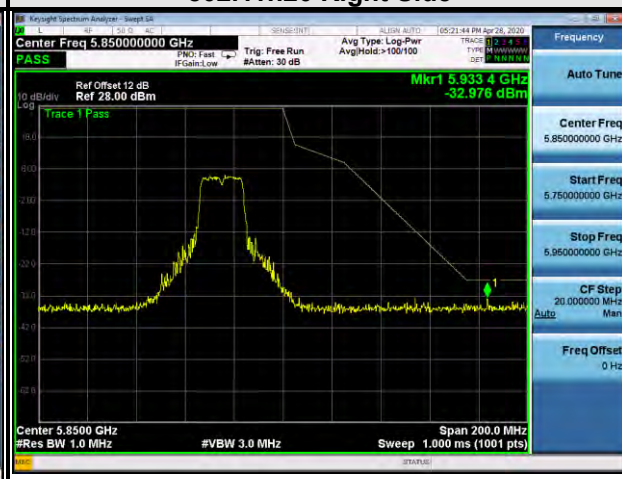
802.11a Right Side



802.11n20 Left Side



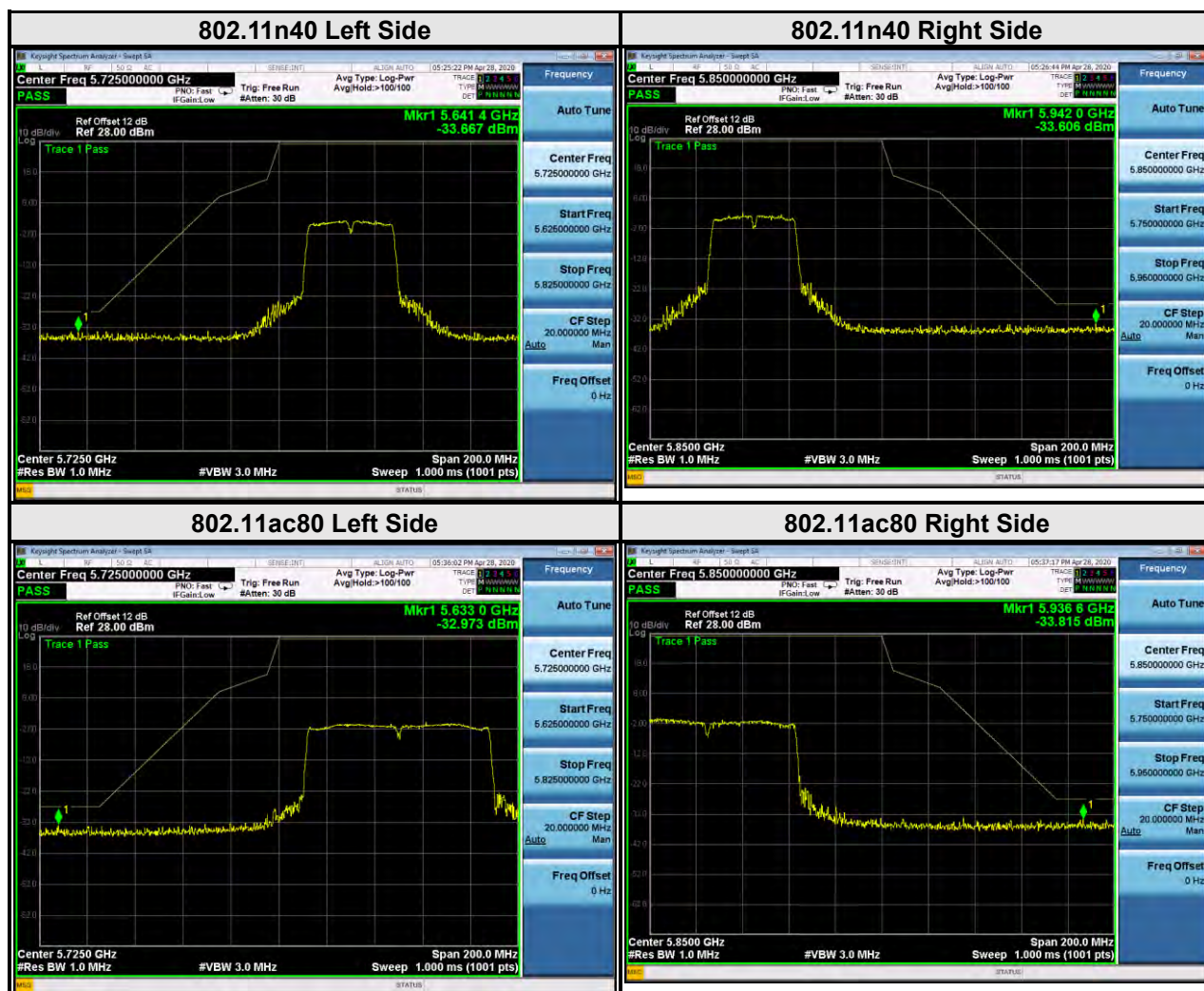
802.11n20 Right Side





BUREAU
VERITAS

Test Report No.: RF200324W001-3





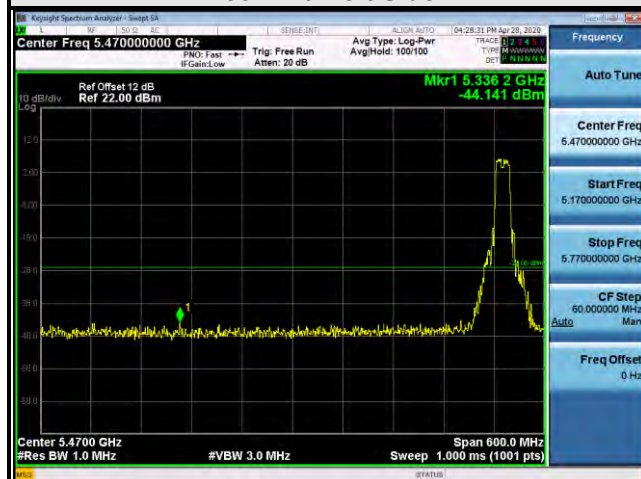
BUREAU
VERITAS

Test Report No.: RF200324W001-3

For 144, 142, 138

SPECTRUM PLOT OF BANDEGE

802.11a Left Side



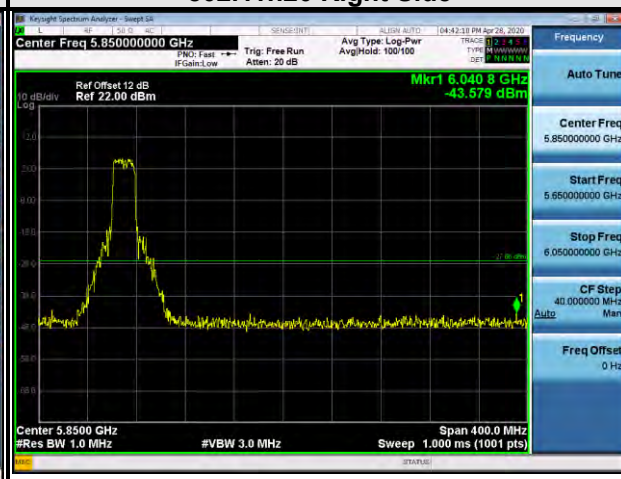
802.11a Right Side

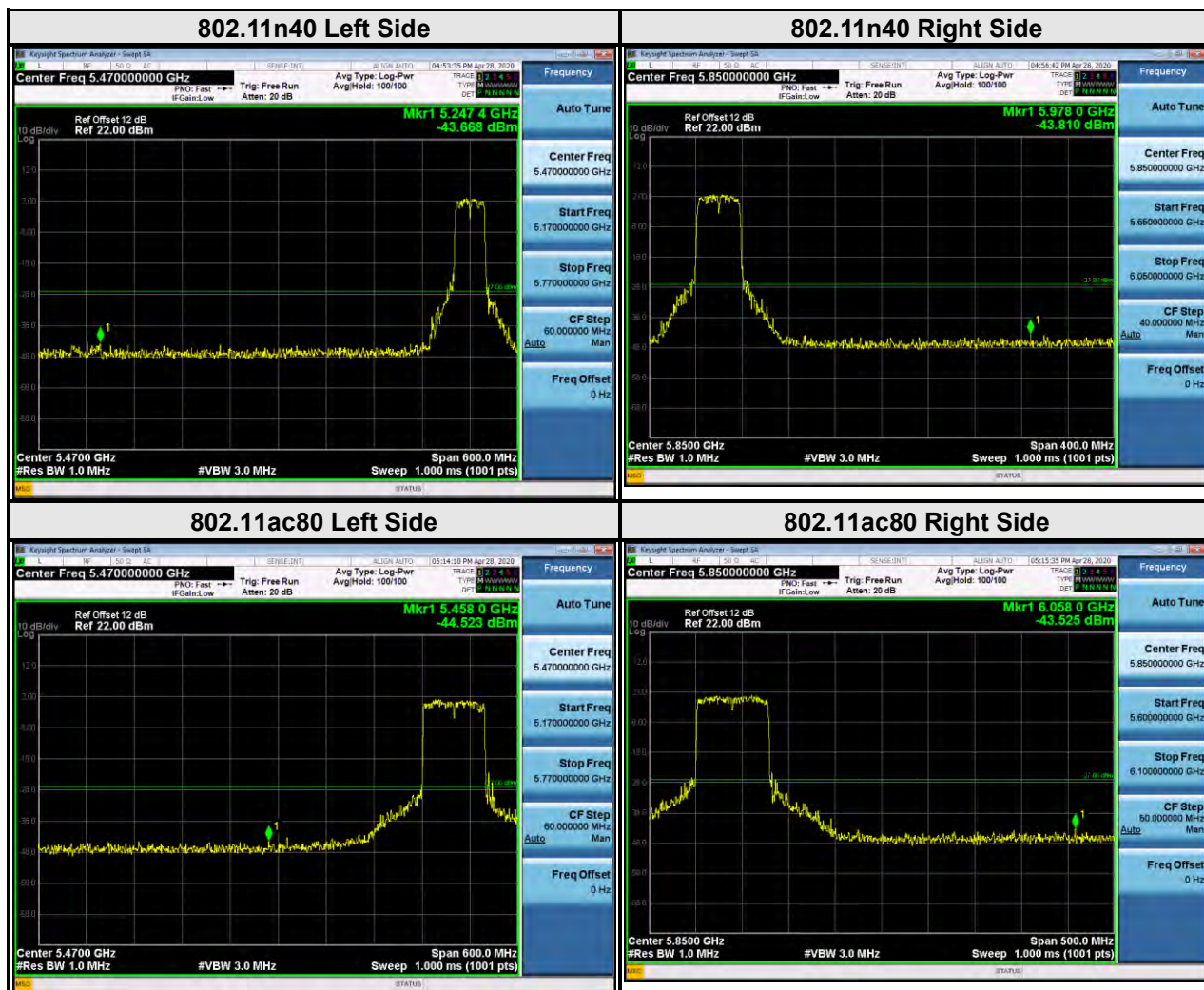


802.11n20 Left Side



802.11n20 Right Side





3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 28,20	Feb. 27,21
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 28,20	Feb. 27,21

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.3.3 TEST PROCEDURES

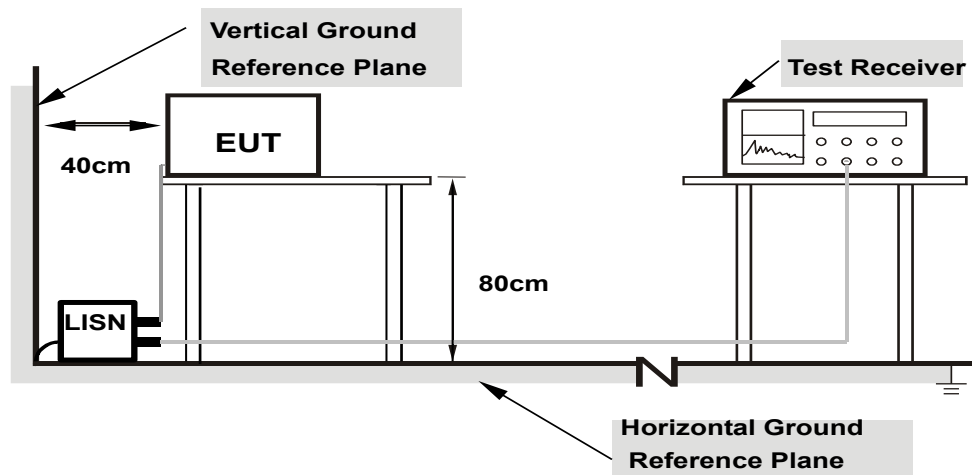
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



**Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.3.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.3.7 TEST RESULTS

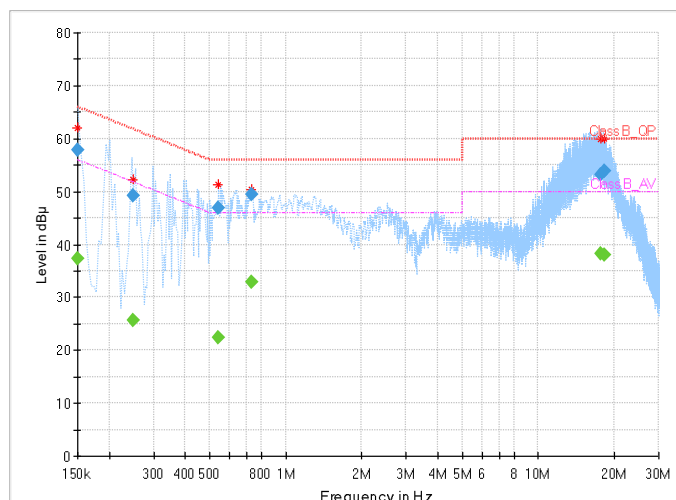
CONDUCTED WORST-CASE DATA :

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23deg. C, 55RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.40	56.00	-18.60	L1	ON	9.7
0.150000	57.91	---	66.00	-8.09	L1	ON	9.7
0.248000	---	25.60	51.82	-26.22	L1	ON	9.7
0.248000	49.25	---	61.82	-12.58	L1	ON	9.7
0.540000	---	22.42	46.00	-23.58	L1	ON	9.7
0.540000	46.82	---	56.00	-9.18	L1	ON	9.7
0.736000	---	32.92	46.00	-13.08	L1	ON	9.7
0.736000	49.40	---	56.00	-6.60	L1	ON	9.7
17.596000	---	38.14	50.00	-11.86	L1	ON	10.0
17.596000	53.20	---	60.00	-6.80	L1	ON	10.0
18.188000	---	37.91	50.00	-12.09	L1	ON	10.0
18.188000	53.84	---	60.00	-6.16	L1	ON	10.0

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

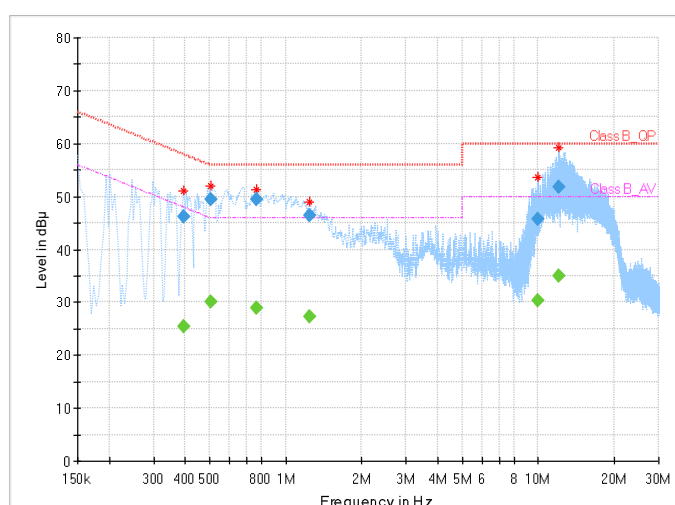


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23deg. C, 55RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.396000	---	25.37	47.94	-22.57	N	ON	9.8
0.396000	46.18	---	57.94	-11.76	N	ON	9.8
0.508000	---	30.00	46.00	-16.00	N	ON	9.8
0.508000	49.49	---	56.00	-6.51	N	ON	9.8
0.768000	---	28.99	46.00	-17.01	N	ON	9.8
0.768000	49.39	---	56.00	-6.61	N	ON	9.8
1.244000	---	27.37	46.00	-18.63	N	ON	9.8
1.244000	46.43	---	56.00	-9.57	N	ON	9.8
9.964000	---	30.38	50.00	-19.62	N	ON	10.0
9.964000	45.65	---	60.00	-14.35	N	ON	10.0
12.084000	---	34.89	50.00	-15.11	N	ON	10.0
12.084000	51.75	---	60.00	-8.25	N	ON	10.0

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



3.4 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.4.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

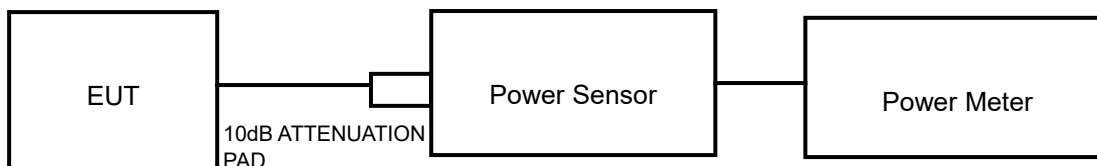
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

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

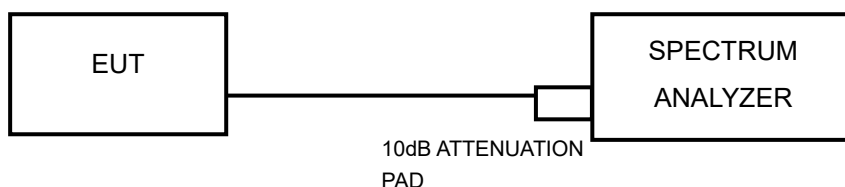
3.4.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

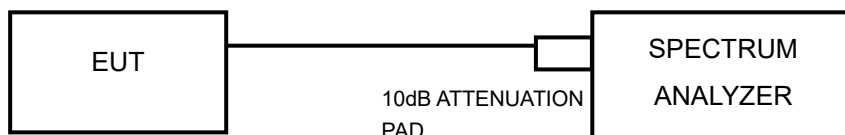
802.11a, 802.11n (20MHz), 802.11n (40MHz) TEST CONFIGURATION



11ac TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 28,20	Feb. 27,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 28,20	Feb. 27,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 28,20	Feb. 27,21
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 28,20	Feb. 27,21

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.4.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n (20MHz), 802.11n (40MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac (80MHz)

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW $\geq$ 3 MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

**3.4.7 TEST RESULTS****OUTPUT POWER:****802.11a**

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	14.91	0	14.91	30.97	24	PASS
40	5200	14.86	0	14.86	30.62	24	PASS
48	5240	14.98	0	14.98	31.48	24	PASS
52	5260	14.83	0	14.83	30.41	24	PASS
60	5300	14.56	0	14.56	28.58	24	PASS
64	5320	14.71	0	14.71	29.58	24	PASS
100	5500	14.33	0	14.33	27.10	24	PASS
116	5580	14.95	0	14.95	31.26	24	PASS
140	5700	14.96	0	14.96	31.33	24	PASS
144	5720	14.85	0	14.85	30.55	24	PASS
144	5720	14.85	0	14.85	30.55	30	PASS
149	5745	14.79	0	14.79	30.13	30	PASS
157	5785	14.86	0	14.86	30.62	30	PASS
165	5825	14.82	0	14.82	30.34	30	PASS



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	14.75	0	14.75	29.85	24	PASS
40	5200	14.72	0	14.72	29.65	24	PASS
48	5240	14.85	0	14.85	30.55	24	PASS
52	5260	14.96	0	14.96	31.33	24	PASS
60	5300	14.95	0	14.95	31.26	24	PASS
64	5320	14.48	0	14.48	28.05	24	PASS
100	5500	14.66	0	14.66	29.24	24	PASS
116	5580	14.98	0	14.98	31.48	24	PASS
140	5700	14.88	0	14.88	30.76	24	PASS
144	5720	14.31	0	14.31	26.98	24	PASS
144	5720	14.31	0	14.31	26.98	30	PASS
149	5745	14.68	0	14.68	29.38	30	PASS
157	5785	14.95	0	14.95	31.26	30	PASS
165	5825	14.88	0	14.88	30.76	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	14.95	0	14.95	31.26	24	PASS
46	5230	14.52	0	14.52	28.31	24	PASS
54	5270	14.56	0	14.56	28.58	24	PASS
62	5310	14.98	0	14.98	31.48	24	PASS
102	5510	14.95	0	14.95	31.26	24	PASS
110	5550	14.79	0	14.79	30.13	24	PASS
134	5670	14.32	0	14.32	27.04	24	PASS
142	5710	14.97	0	14.97	31.41	24	PASS
142	5710	14.97	0	14.97	31.41	30	PASS
151	5755	14.31	0	14.31	26.98	30	PASS
159	5798	14.84	0	14.84	30.48	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	14.57	0	14.57	28.64	24	PASS
58	5290	14.97	0	14.97	31.41	24	PASS
106	5530	14.71	0	14.71	29.58	24	PASS
122	5610	14.95	0	14.95	31.26	24	PASS
138	5690	14.87	0	14.87	30.69	24	PASS
138	5690	14.87	0	14.87	30.69	30	PASS
155	5775	14.61	0	14.61	28.91	30	PASS

99% OCCUPIED BANDWIDTH & 26dB BANDWIDTH/6dB BANDWIDTH DATA FROM:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	16.92	28.35	PASS
40	5200	16.98	27.73	PASS
48	5240	16.86	27.00	PASS
52	5260	16.86	30.09	PASS
60	5300	16.92	29.41	PASS
64	5320	16.92	28.75	PASS
100	5500	16.86	28.51	PASS
116	5580	16.92	28.69	PASS
140	5700	16.86	29.44	PASS
144	5720	16.92	28.28	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
144	5720	16.92	16.36	PASS
149	5745	16.86	16.35	PASS
157	5785	16.86	16.35	PASS
165	5825	16.86	16.35	PASS

**802.11n (20MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	17.82	29.71	PASS
40	5200	17.82	26.54	PASS
48	5240	17.76	29.53	PASS
52	5260	17.82	31.75	PASS
60	5300	17.70	30.39	PASS
64	5320	17.82	30.07	PASS
100	5500	17.82	28.30	PASS
116	5580	17.88	29.39	PASS
140	5700	17.76	31.04	PASS
144	5720	17.82	31.11	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
144	5720	17.82	17.57	PASS
149	5745	17.82	17.56	PASS
157	5785	17.88	17.59	PASS
165	5825	17.82	17.54	PASS



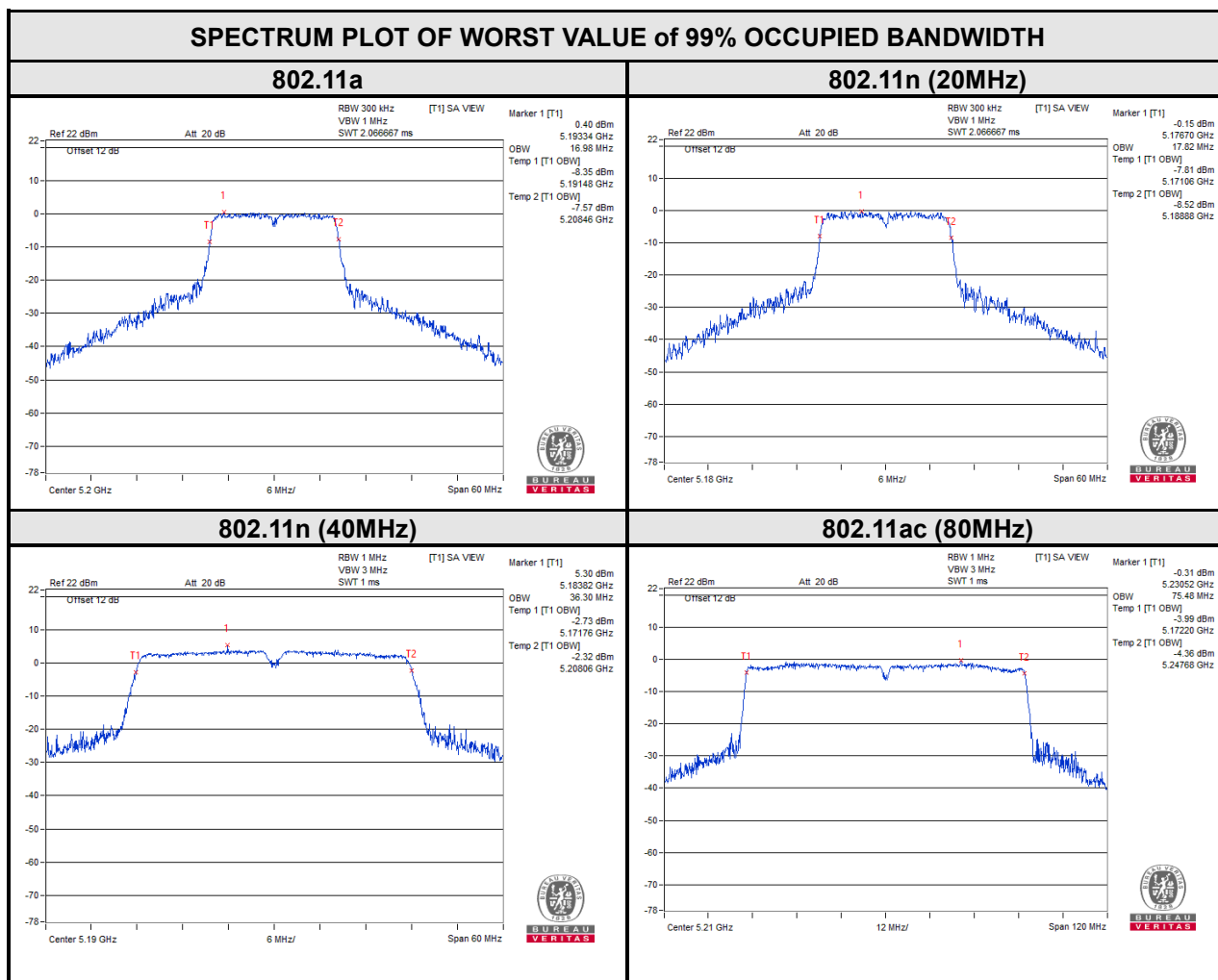
802.11n (40MHz)

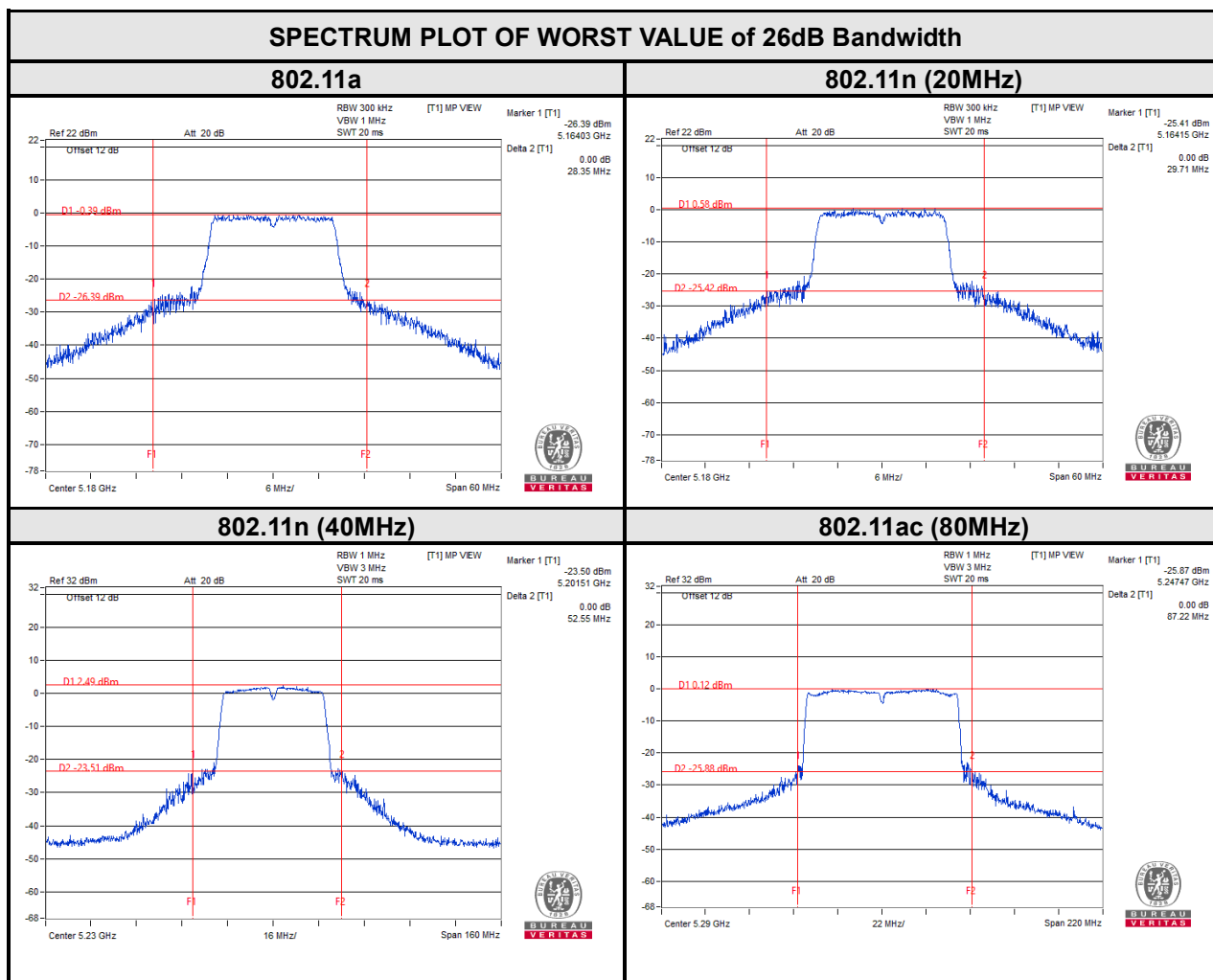
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
38	5190	36.3	49.45	PASS
46	5230	36.24	52.55	PASS
54	5270	36.36	51.99	PASS
62	5310	36.24	47.66	PASS
102	5510	36.30	45.77	PASS
110	5550	36.24	45.31	PASS
134	5670	36.24	53.04	PASS
142	5710	36.24	49.76	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
142	5710	36.24	35.80	PASS
151	5755	36.24	36.06	PASS
159	5795	36.24	35.82	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
42	5210	75.48	91.25	PASS
58	5290	75.60	87.22	PASS
106	5530	75.48	91.79	PASS
122	5610	75.36	90.06	PASS
138	5690	75.48	84.31	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
138	5690	75.48	75.88	PASS
155	5775	75.48	75.69	PASS

For U-NII-1:



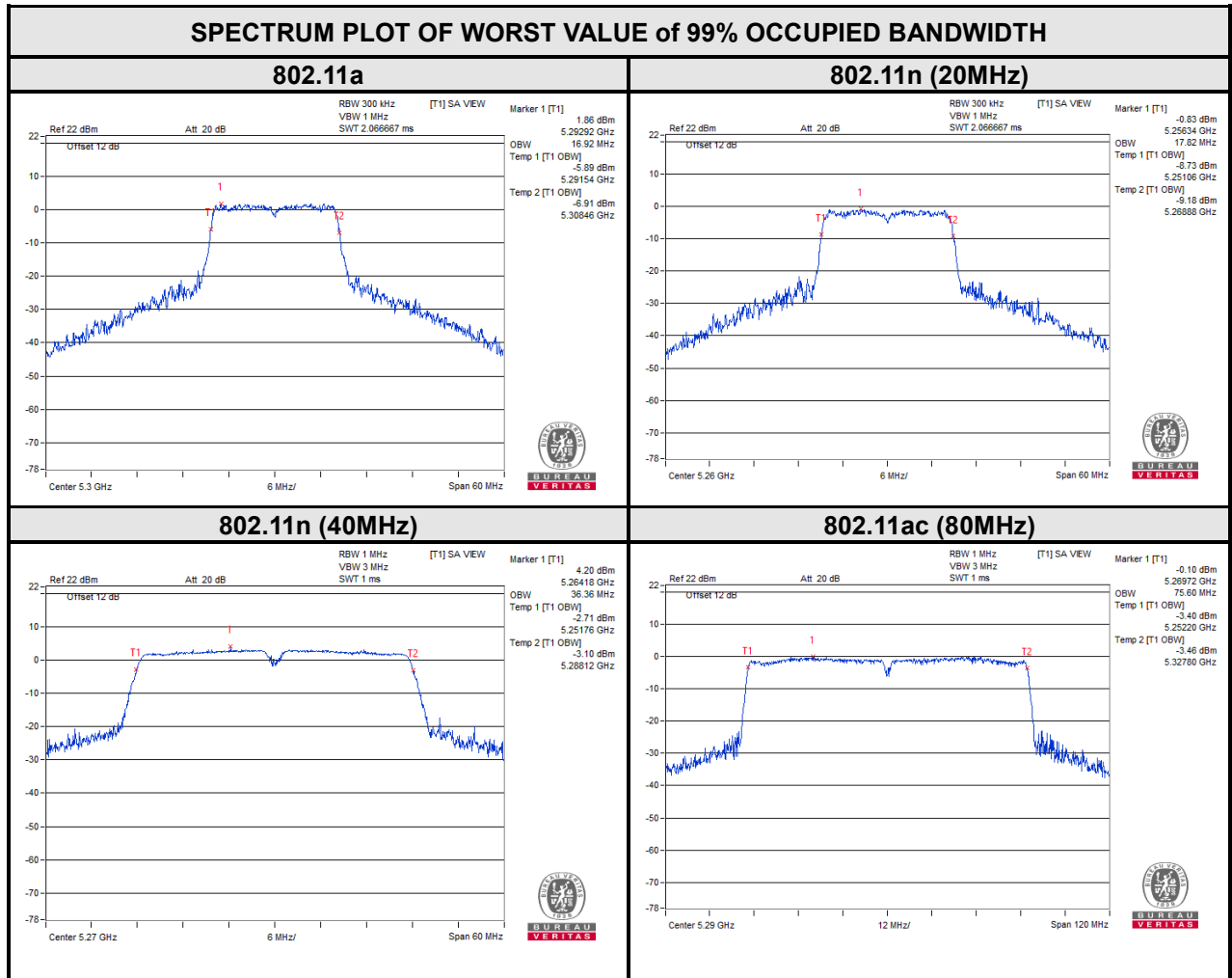




BUREAU
VERITAS

Test Report No.: RF200324W001-3

For U-NII-2A:



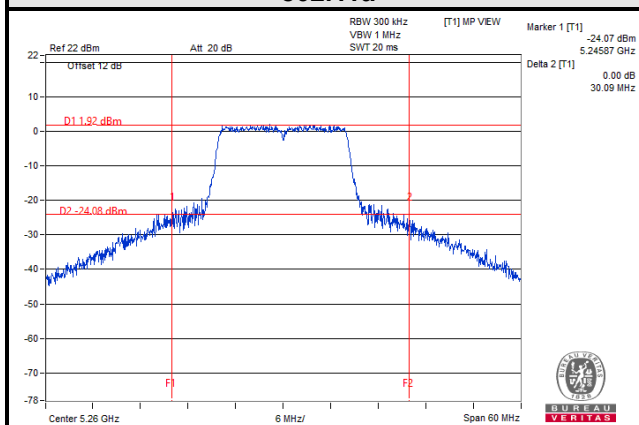


BUREAU
VERITAS

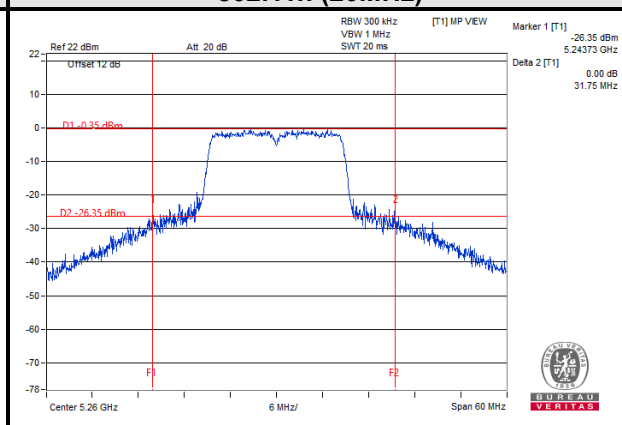
Test Report No.: RF200324W001-3

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

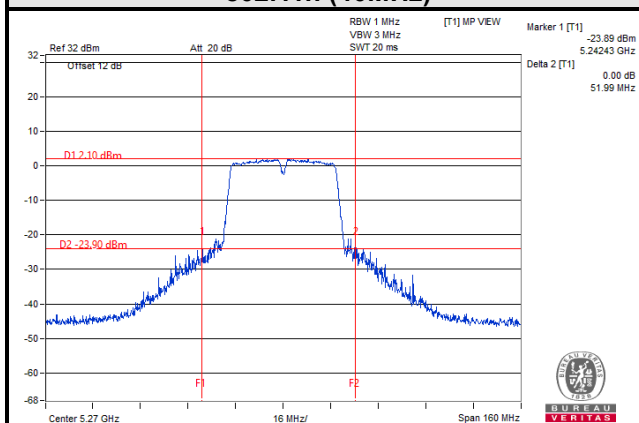
802.11a



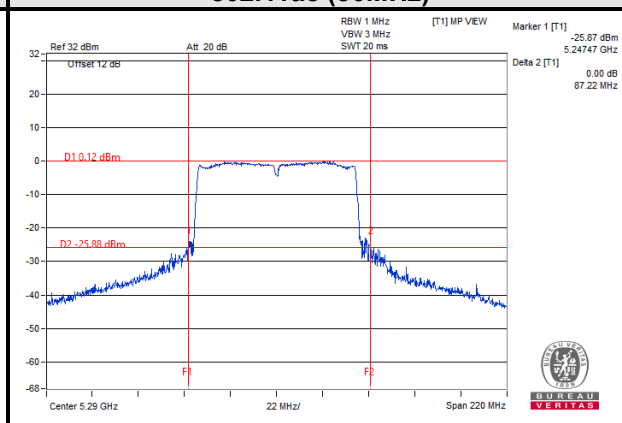
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

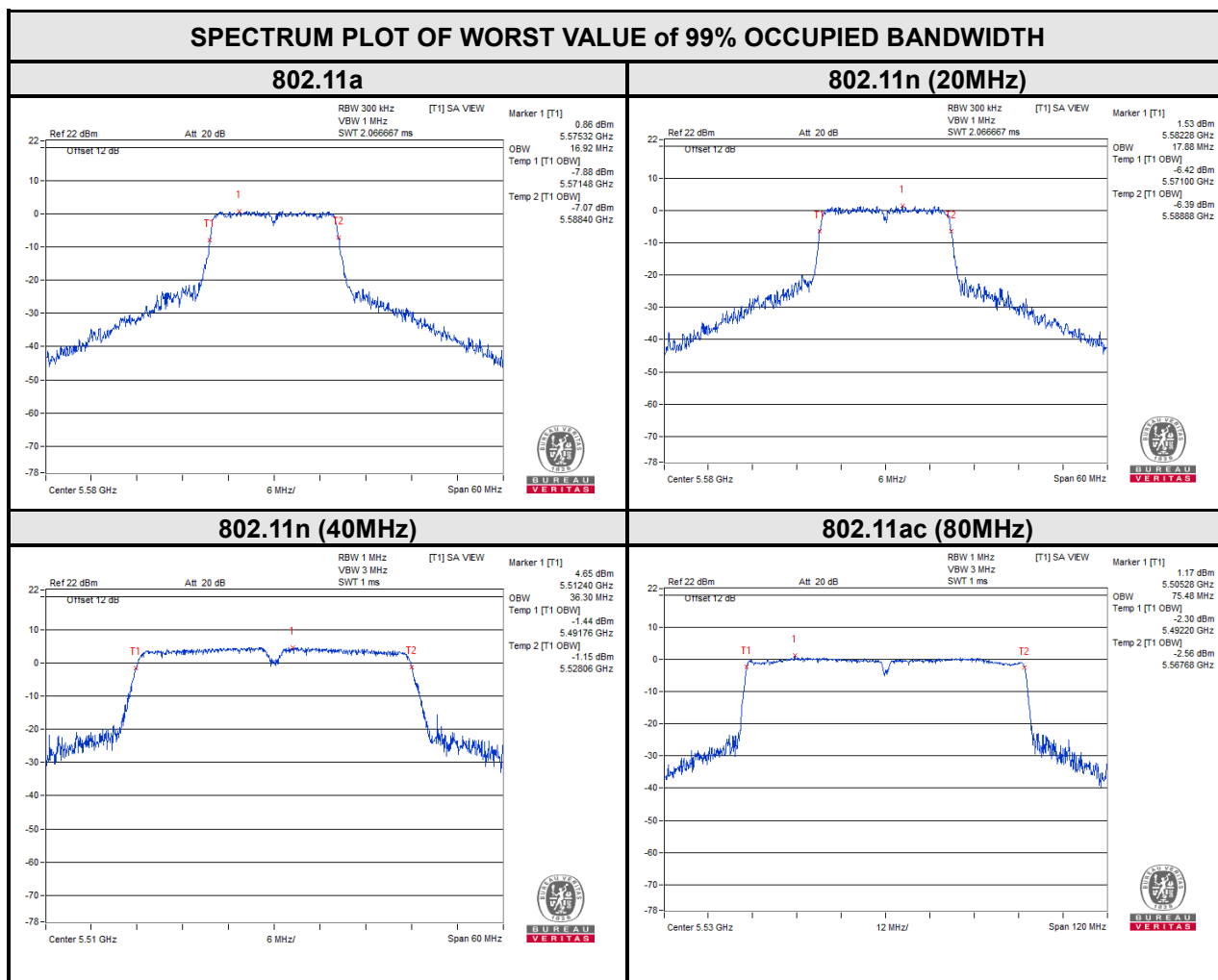




BUREAU
VERITAS

Test Report No.: RF200324W001-3

For U-NII-2C:



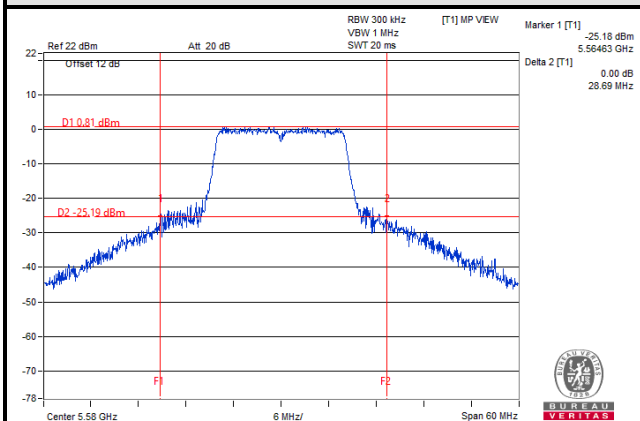


BUREAU
VERITAS

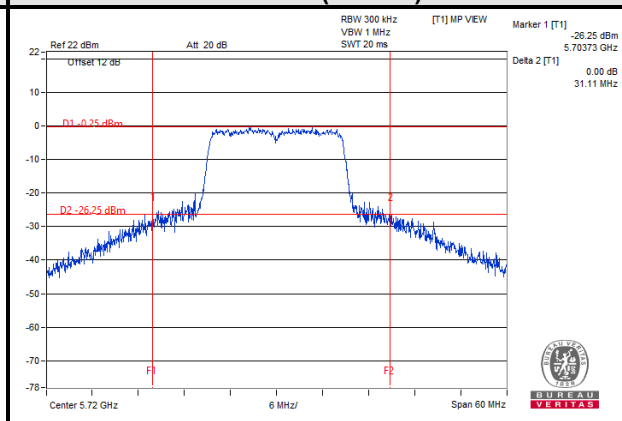
Test Report No.: RF200324W001-3

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

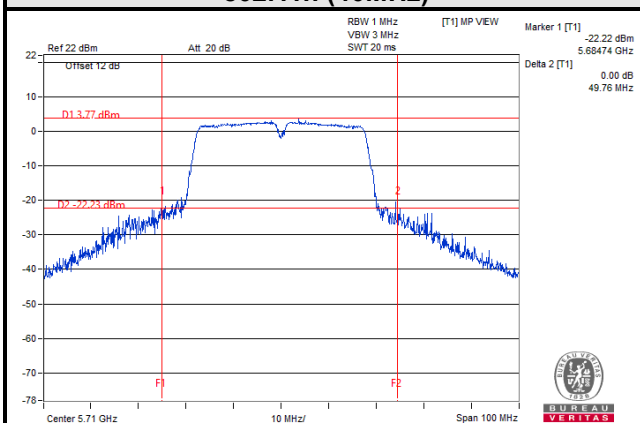
802.11a



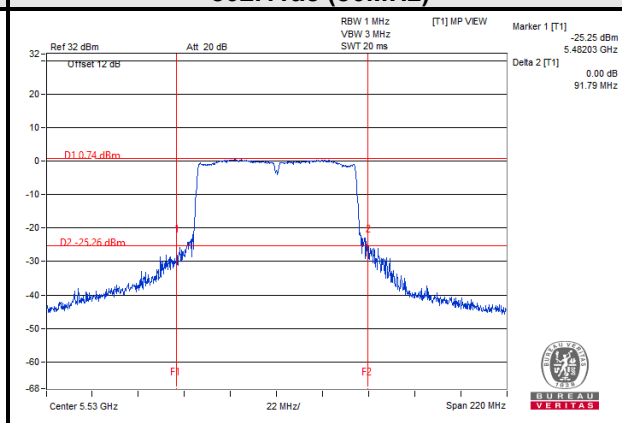
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

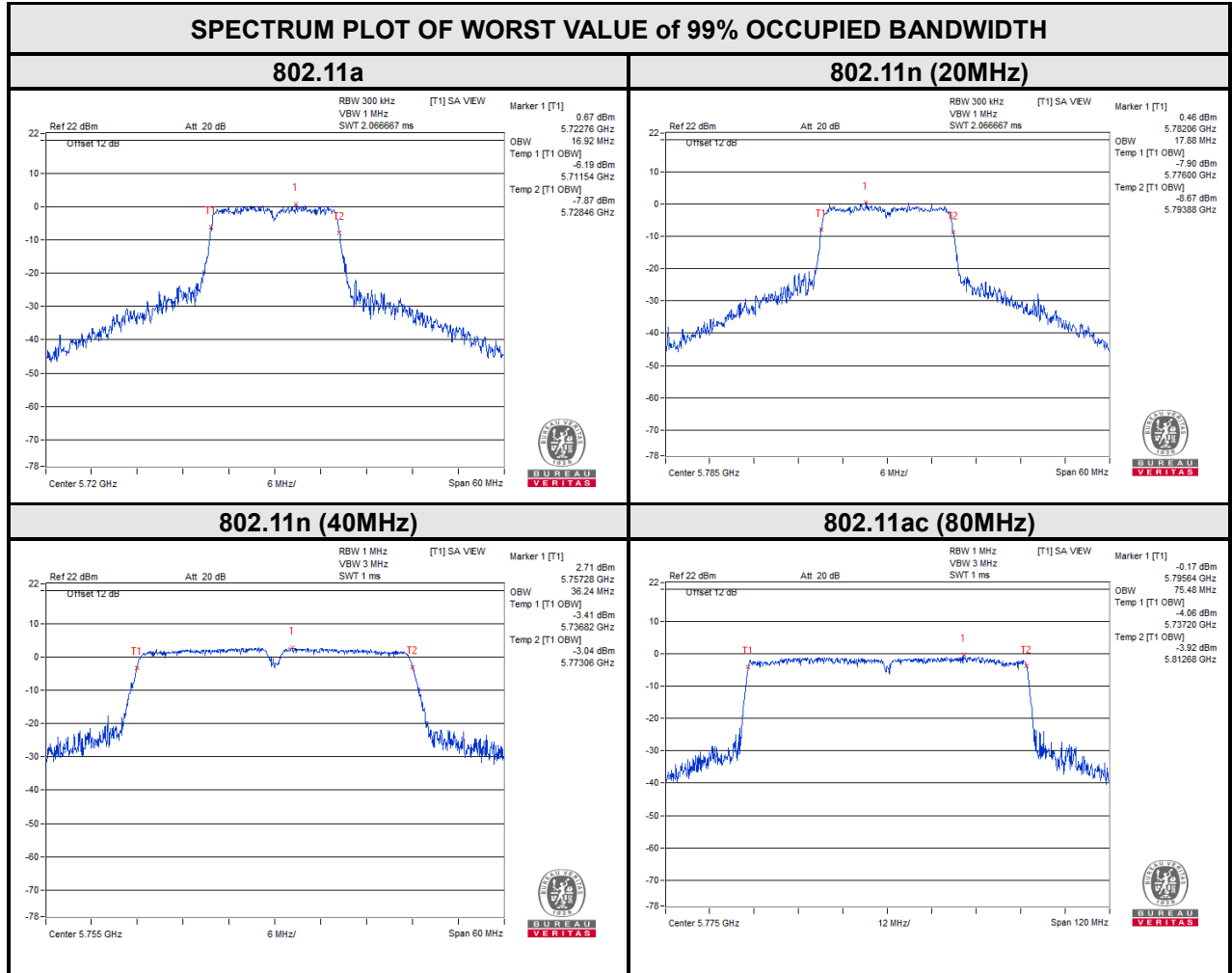




BUREAU
VERITAS

Test Report No.: RF200324W001-3

For U-NII-3:



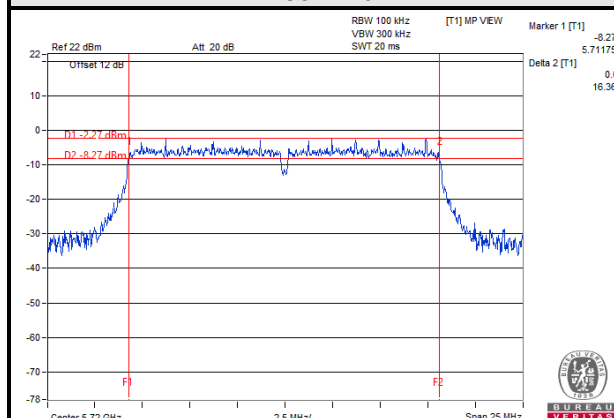


BUREAU
VERITAS

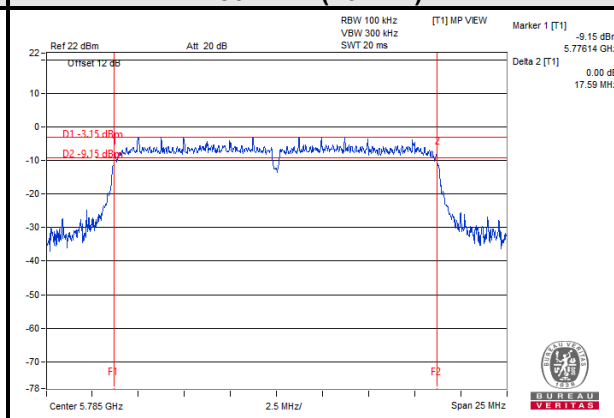
Test Report No.: RF200324W001-3

SPECTRUM PLOT OF WORST VALUE of 6dB Bandwidth

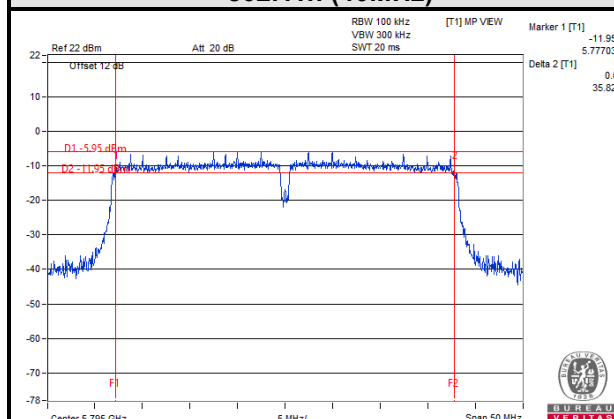
802.11a



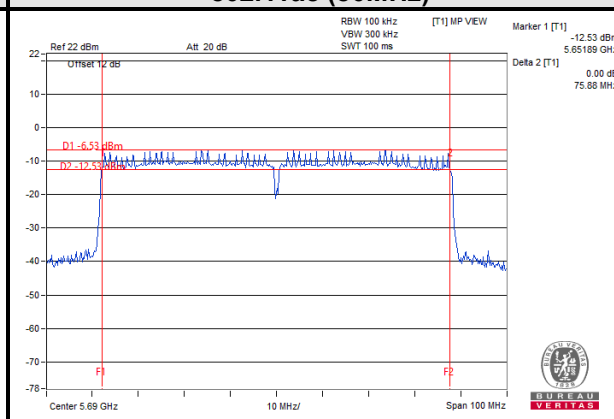
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

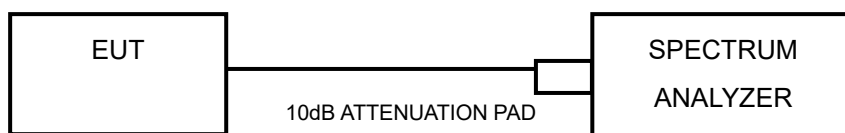


3.5 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURES

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.5.7 TEST RESULTS

For U-NII-1 & U-NII-2A& U-NII-2C:

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	-4.12	0	-4.12	11	PASS
40	5200	-3.50	0	-3.50	11	PASS
48	5240	-1.56	0	-1.56	11	PASS
52	5260	-1.58	0	-1.58	11	PASS
60	5300	-1.46	0	-1.46	11	PASS
64	5320	-1.40	0	-1.40	11	PASS
100	5500	-2.72	0	-2.72	11	PASS
116	5580	-2.77	0	-2.77	11	PASS
140	5700	-3.12	0	-3.12	11	PASS
144	5720	2.56	0	2.56	11	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	-3.42	0	-3.42	11	PASS
40	5200	-4.70	0	-4.70	11	PASS
48	5240	-4.10	0	-4.10	11	PASS
52	5260	-4.14	0	-4.14	11	PASS
60	5300	-3.97	0	-3.97	11	PASS
64	5320	-3.90	0	-3.90	11	PASS
100	5500	-2.94	0	-2.94	11	PASS
116	5580	-1.88	0	-1.88	11	PASS
140	5700	-3.62	0	-3.62	11	PASS
144	5720	2.63	0	2.63	11	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
38	5190	-6.47	0	-6.47	11	PASS
46	5230	-7.24	0	-7.24	11	PASS
54	5270	-7.12	0	-7.12	11	PASS
62	5310	-5.93	0	-5.93	11	PASS
102	5510	-5.26	0	-5.26	11	PASS
110	5550	-5.55	0	-5.55	11	PASS
134	5670	-5.85	0	-5.85	11	PASS
142	5710	-0.77	0	-0.77	11	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
42	5210	-10.13	0	-10.13	11	PASS
58	5290	-9.27	0	-9.27	11	PASS
106	5530	-8.57	0	-8.57	11	PASS
122	5610	-7.96	0	-7.96	11	PASS
138	5690	-2.45	0	-2.45	11	PASS

For U-NII-3:

Note: dBm/500kHz= dBm/MHz+10*log(0.5/1)= dBm/MHz-3.01

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
144	5720	-8.01	-5.79	0	-5.79	30	PASS
149	5745	-7.93	-5.71	0	-5.71	30	PASS
157	5785	-7.61	-5.39	0	-5.39	30	PASS
165	5825	-7.94	-5.72	0	-5.72	30	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
144	5720	-8.61	-6.39	0	-6.39	30	PASS
149	5745	-8.89	-6.67	0	-6.67	30	PASS
157	5785	-8.33	-6.11	0	-6.11	30	PASS
165	5825	-8.57	-6.35	0	-6.35	30	PASS

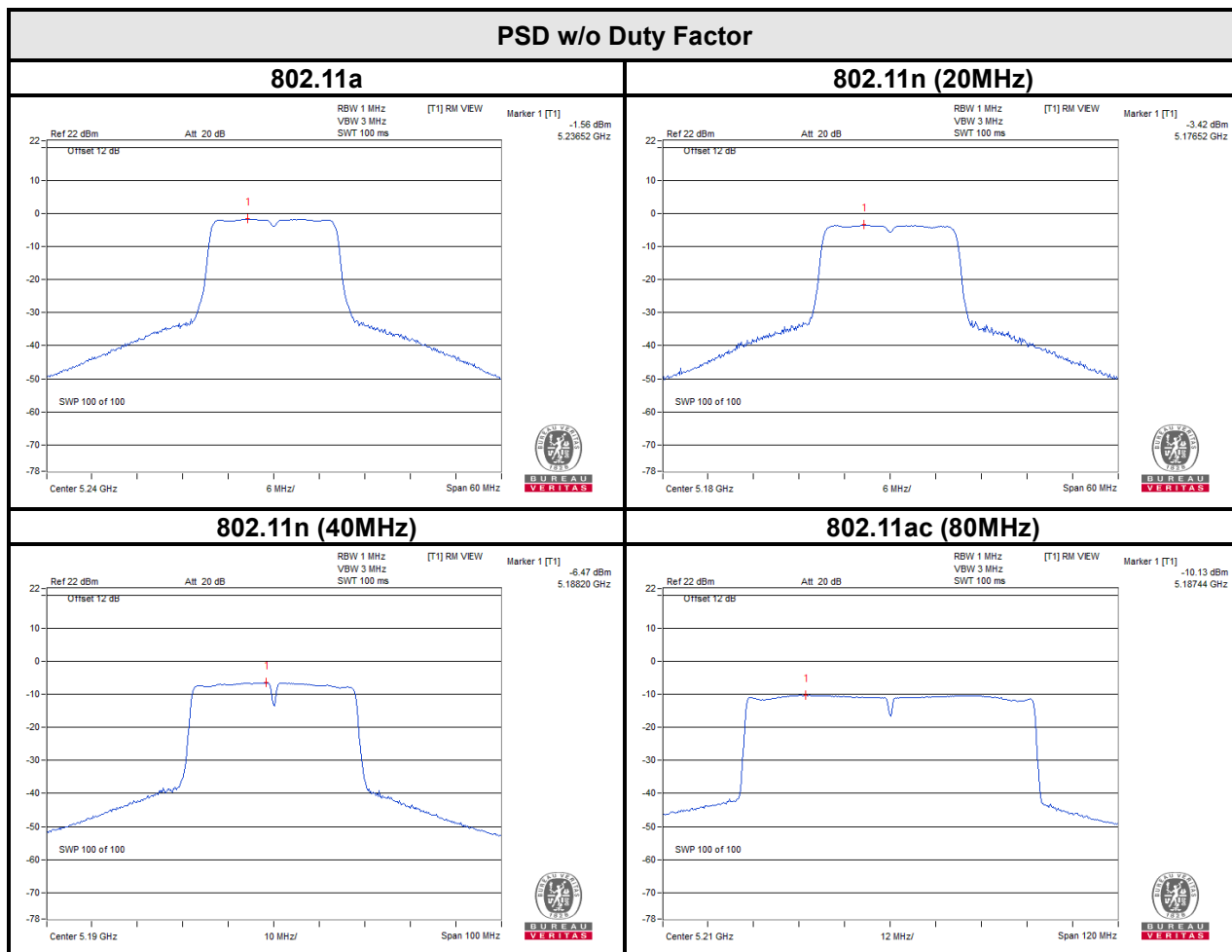
802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
142	5710	-11.37	-9.15	0	-9.15	30	PASS
151	5755	-11.93	-9.71	0	-9.71	30	PASS
159	5795	-11.63	-9.41	0	-9.41	30	PASS

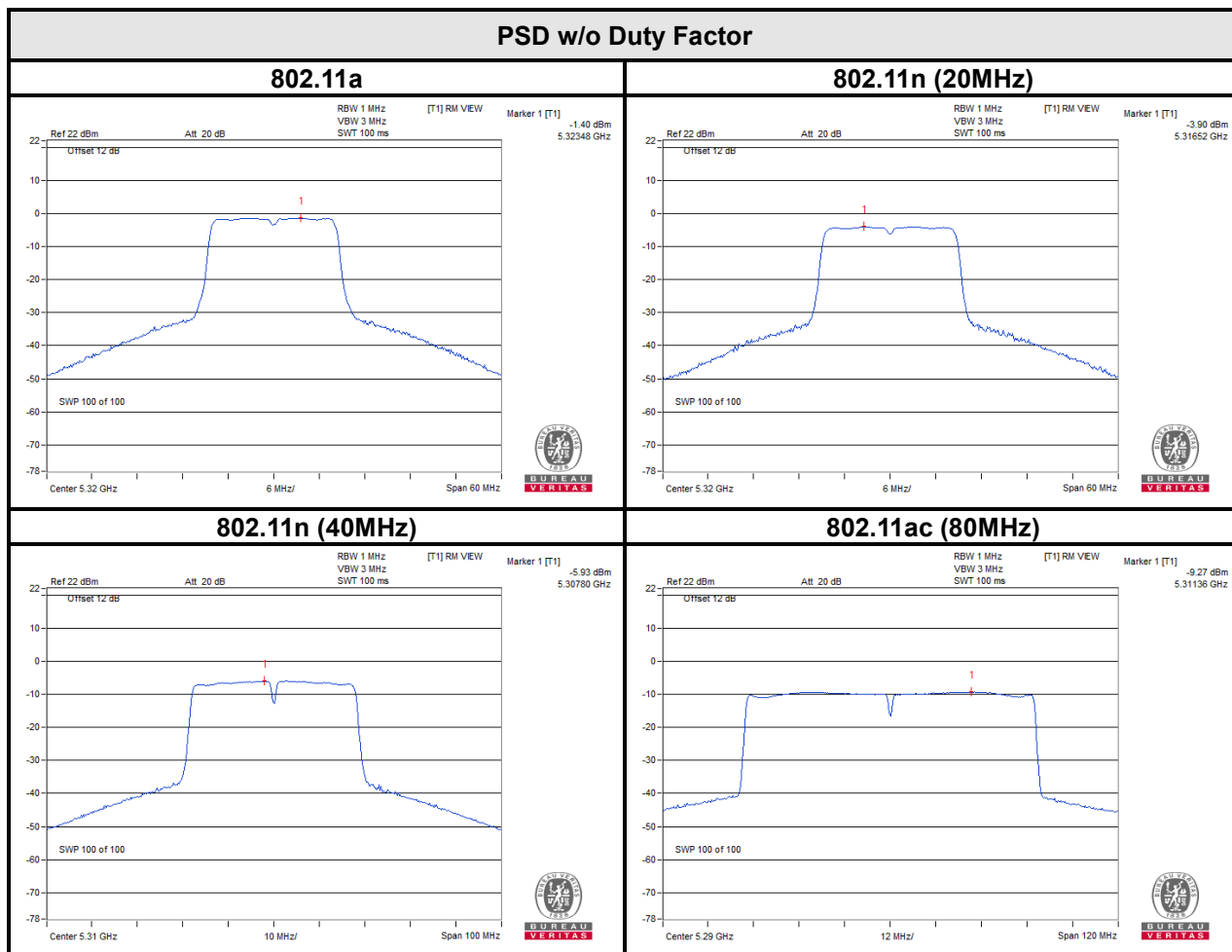
802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
138	5690	-12.99	-10.77	0	-10.77	30	PASS
155	5775	-14.84	-12.62	0	-12.62	30	PASS

For 5180~5240MHz



For 5260~5320MHz

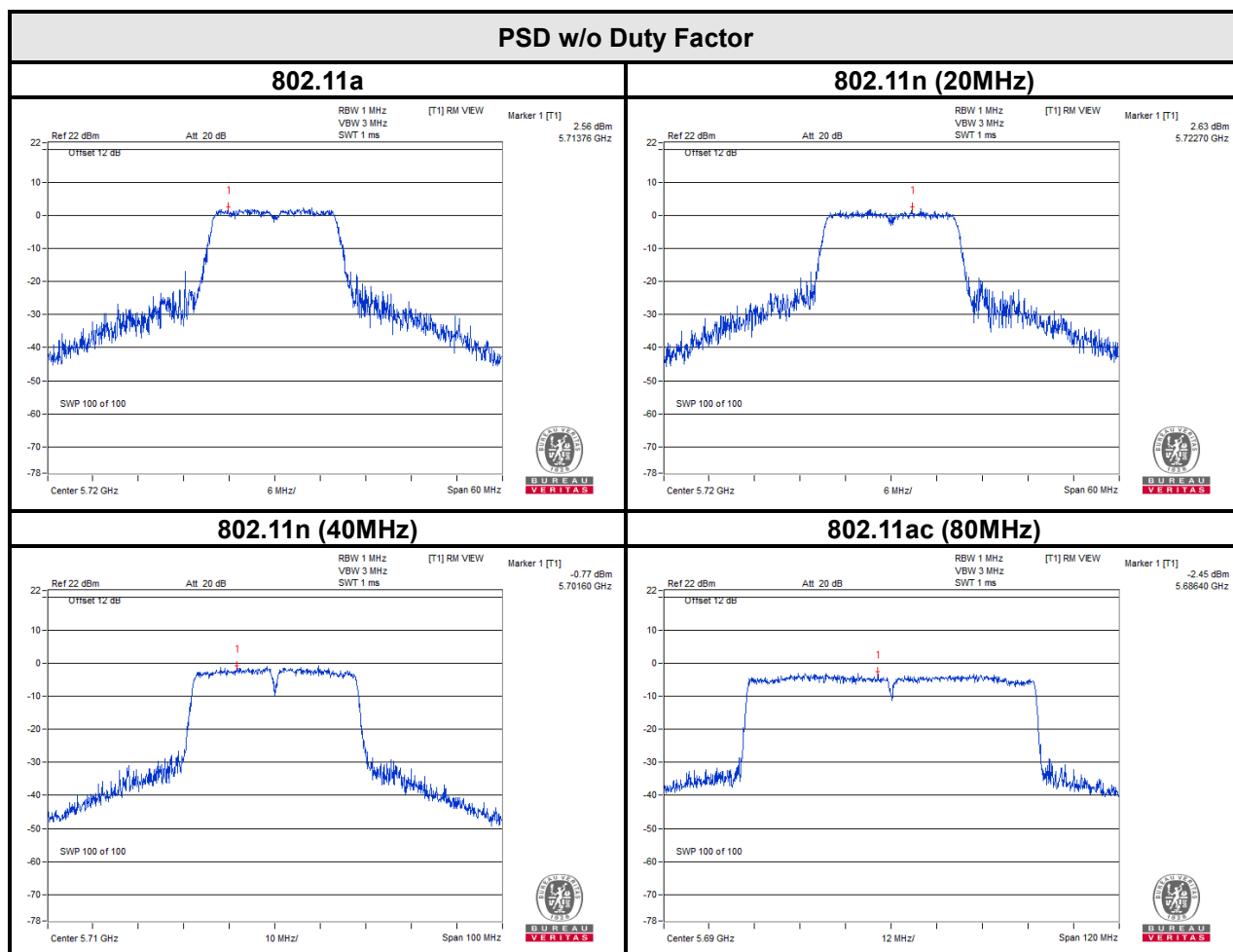




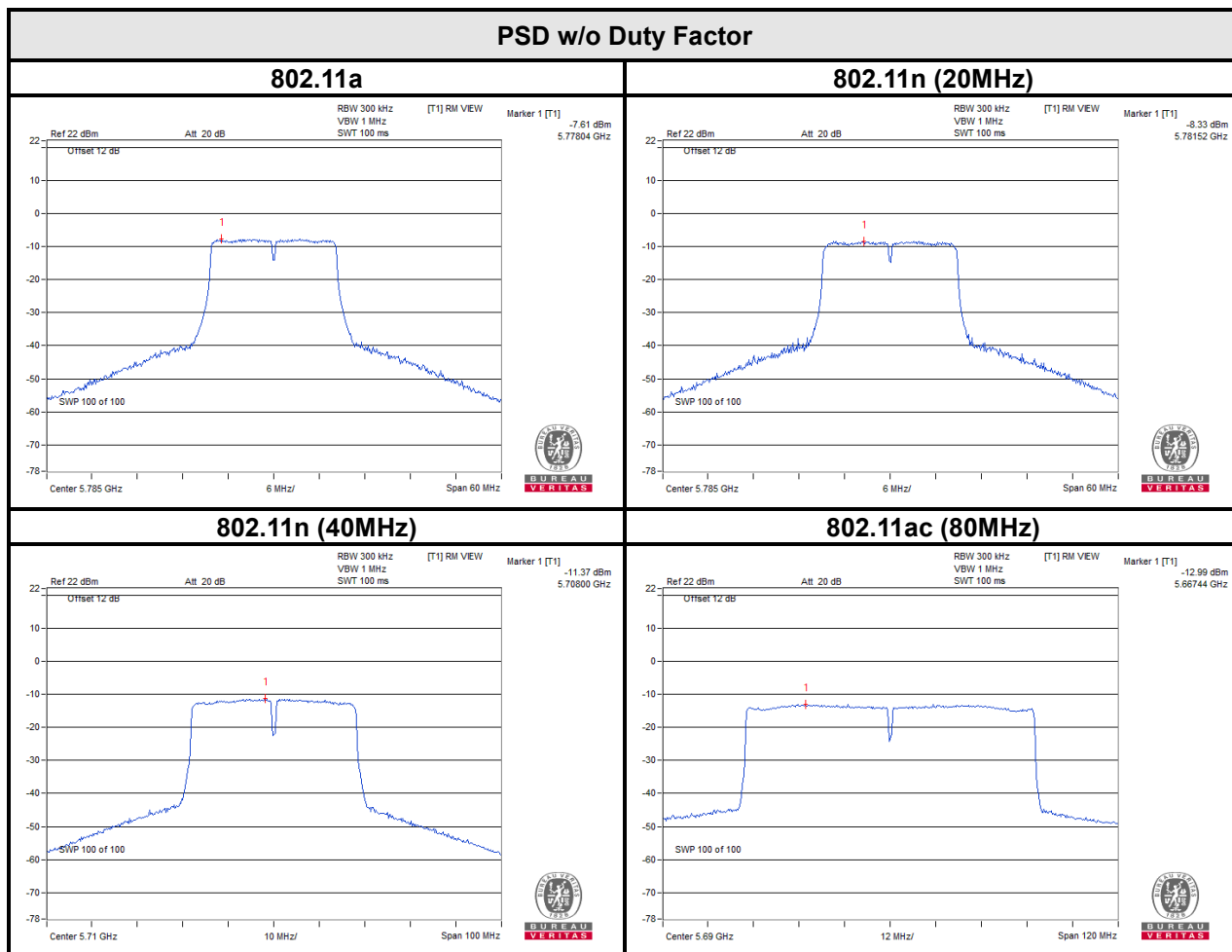
BUREAU
VERITAS

Test Report No.: RF200324W001-3

For 5500~5720MHz



For 5745~5825MHz



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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