



Test Report No.: RF180703N033-2



TEST REPORT



Applicant	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center Haixiu Road, Bao an District Shenzhen Guangdong 518000 China

Manufacturer or Supplier	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center Haixiu Road, Bao an District Shenzhen Guangdong 518000 China
Product Name	Insta360 Pro 2
Brand Name	Insta360
Model	TINPPR2/A
Additional Model & Model Difference	TINPPR2, See section 3.1
Date of tests	Jul. 03, 2018 ~ Sep. 10, 2018

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

Tested by Andy Zhu Project Engineer/ EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Sep. 26, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF180703N033-2	Original release.	Sep. 26, 2018



1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 UNDER NEW RULE)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emissions	PASS	Meet the requirement of limit.
15.407(b)(1/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(1/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

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	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.70dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.76dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	4.96dB

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



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT NAME	Insta360 Pro 2
MODEL NO.	TINPPR2/A
FCC ID	2AFSH-TINPPR2-A
POWER SUPPLY	DC 12V from Adapter Input 100-240V ~ 50/60Hz or DC 7.6V from Li-ion Battery
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150.0Mbps 802.11ac : up to 433.3Mbps
OPERATING FREQUENCY	5150MHz ~ 5250MHz, 5725MHz ~ 5850MHz
NUMBER OF CHANNEL	5150MHz ~ 5250MHz: 4 channels for 802.11a, 802.11n (HT20), 11ac (VHT20) 2 channels for 802.11n(HT40), 11ac (VHT40) 1 channel for 802.11ac (VHT80) 5725MHz ~ 5850MHz: 5 channels for 802.11a, 802.11n (HT20), 11ac (VHT20) 2 channels for 802.11n(HT40), 11ac (VHT40) 1 channel for 802.11ac (VHT80)
CONDUCTED OUTPUT POWER	11.73 dBm for 5150 ~ 5250MHz (Maximum AVG Power) 10.81 dBm for 5725 ~ 5850MHz (Maximum AVG Power)
ANTENNA TYPE	5150MHz ~ 5250MHz: Dipole Antenna, 4.1dBi Gain 5725MHz ~ 5850MHz: Dipole Antenna, 2.9dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

**NOTE:**

1. The EUT have SISO function, provides 1 completed transmitters and 1 receivers.

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802.11n (HT20), 802.11ac (VHT20)	1TX/1RX
802.11n (HT40), 802.11ac (VHT40)	1TX/1RX
802.11ac (VHT80)	1TX/1RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Please refer to the EUT photo document (Reference No.: 180703N033) for detailed product photo.
5. Additional model TINPPR2 is identical with the test model TINPPR2/A except the model name for trading purpose.
6. The EUT was powered by the following adaptor:

ADAPTOR	
BRAND:	Insta360
MODEL:	TEKA060-1205000
INPUT:	AC 100-240V 50/60Hz 1.4A MAX
OUTPUT:	DC 12V 5A
CABLE	DC Line: Un-shielded. Non-detachable 125cm, AC Line: Un-Shielded. Detachable 110cm



2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

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

2 channels are provided for 802. 11ac (40MHz), 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

FOR 5725 ~ 5850MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

2 channels are provided for 802. 11ac (40MHz), 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775MHz	--	--



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 Fully Battery with WIFI function
B	√	√	√	-	Powered by Adapter with WIFI function

Where **RE \geq 1G**: Radiated Emission above 1GHz**RE<1G**: Radiated Emission below 1GHz**PLC**: Power Line Conducted Emission**APCM**: Antenna Port Conducted Measurement**NOTE:**1. 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 TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11a	5150-5250	36 to 48	36, 40, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	13.5
	802.11ac 80MHz		42	42	OFDM	BPSK	29.3
	802.11a	5725-5850	149 to 165	149, 157, 165	OFDM	BPSK	6.0
	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	13.5
	802.11ac 80MHz		155	155	OFDM	BPSK	29.3

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 TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11a	5150-5250 5725-5850	36 to 48 149 to 165	36	OFDM	BPSK	6.0

**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 TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11a	5150-5250 5725-5850	36 to 48 149 to 165	36	OFDM	BPSK	6.0

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	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250	36 to 48	36, 40, 48	OFDM	BPSK	6.0
	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	6.5
	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	13.5
	802.11ac 80MHz		42	42	OFDM	BPSK	29.3
	802.11a	5725-5850	149 to 165	149, 157, 165	OFDM	BPSK	6.0
	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	BPSK	6.5
	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	13.5
	802.11ac 80MHz		155	155	OFDM	BPSK	29.3

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	24deg. C, 55%RH	DC 12V from Adapter	Cheng Zhong
RE≥1G	24deg. C, 55%RH	DC 12V from Adapter	Cheng Zhong
PLC	20deg. C, 56%RH	DC 12V from Adapter	Dragon
APCM	20deg. C, 55%RH	DC 7.6V from Battery	Sen He



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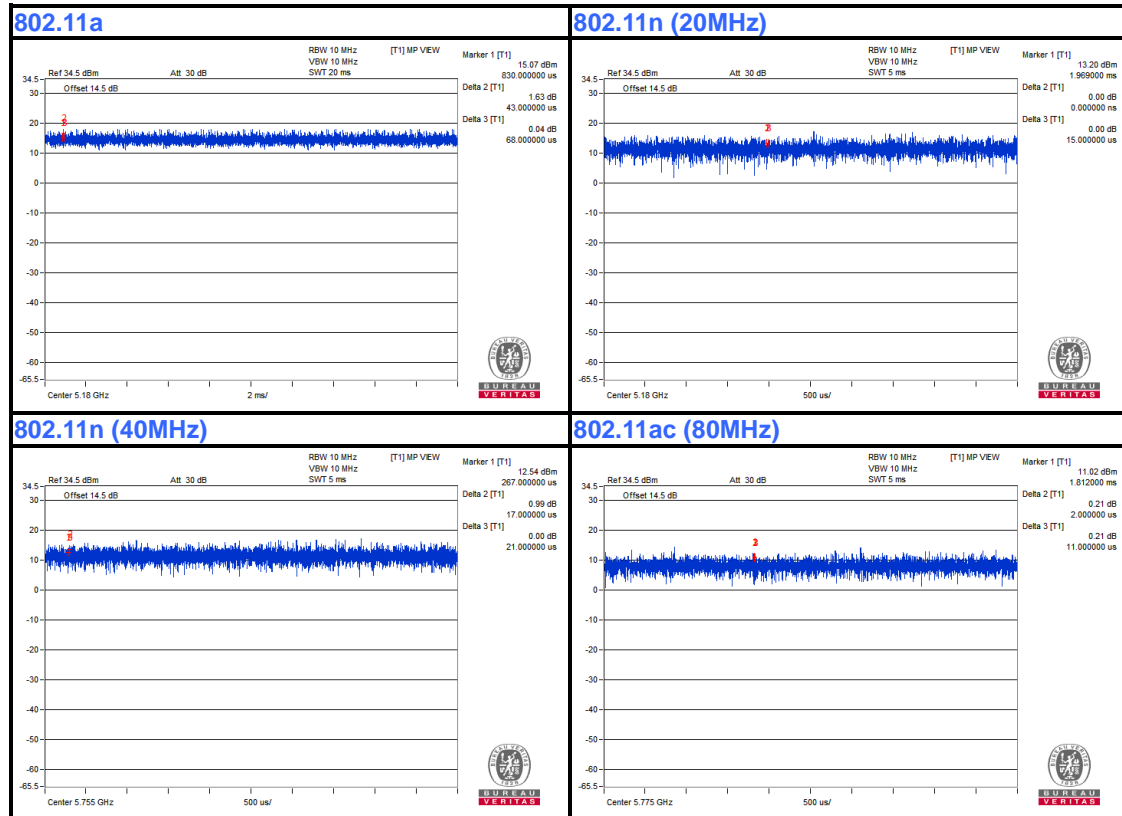
2.3 DUTY CYCLE OF TEST SIGNAL

802.11a: Duty cycle = 100 %

802.11n (20MHz): Duty cycle = 100 %

802.11n (40MHz): Duty cycle = 100 %

802.11ac (80MHz): Duty cycle = 100 %





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.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 v02r01

ANSI C63.10-2013

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



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 30dB under any condition of modulation.



3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE: For transmitters operating in the 5.725-5.85 GHz band:

Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(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.

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

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



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3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 21,18	Mar. 20,19
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 21,18	Mar. 20,19
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 28, 18	Jul. 27, 19
Horn Antenna	ETS-Lindgren	3117	00062558	Jul. 02,18	Jul. 01,19
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Sep. 08,18	Sep. 07,19
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Feb. 10,18	Feb. 09,19
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 05,18	May 04,19
Amplifier	Burgeon	BPA-530	100220	Apr. 18,18	Apr. 18,19
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 18,18	Apr. 18,19
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 08,17	Nov. 07,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

NOTE:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
3. The FCC Site Registration No. is 749762.



3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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 Quasi-peak detection 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 $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

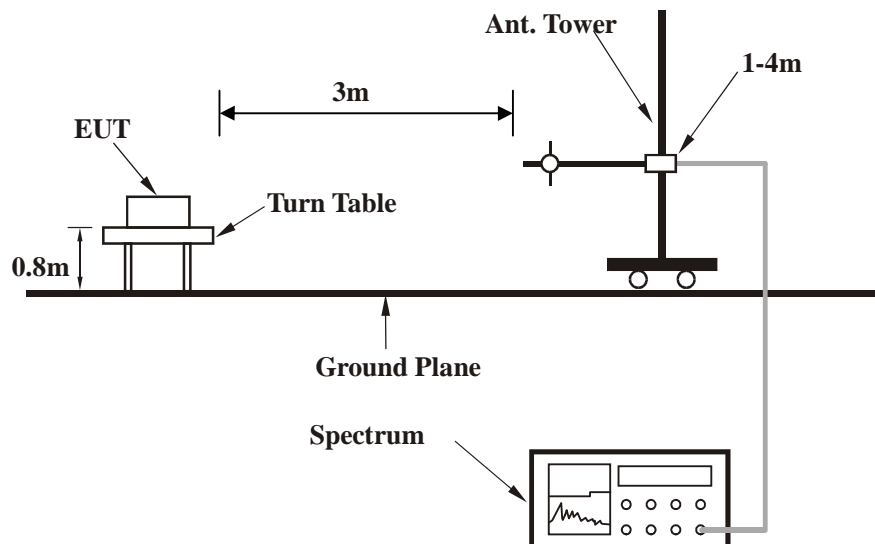
3.1.5 DEVIATION FROM TEST STANDARD

No deviation.



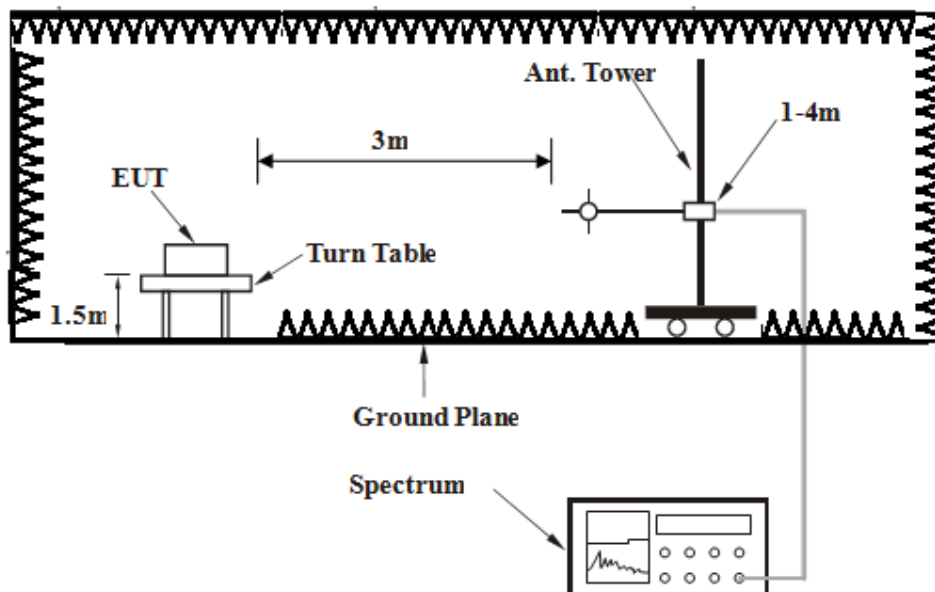
3.1.6 TEST SETUP

Below 1GHz test setup



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

Above 1GHz test setup



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



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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

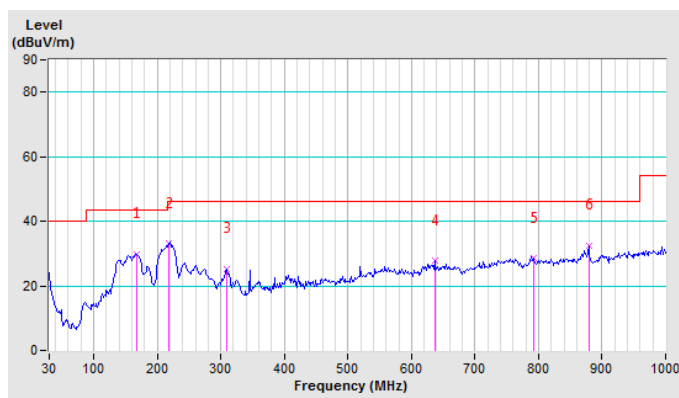
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	166.79	29.92 QP	43.50	-13.58	1.00 H	197	47.37	-17.45
2	218.09	33.11 QP	46.00	-12.89	1.00 H	228	50.79	-17.68
3	309.81	25.36 QP	46.00	-20.64	1.00 H	150	37.63	-12.27
4	636.25	27.72 QP	46.00	-18.28	1.00 H	183	30.79	-3.07
5	793.25	28.67 QP	46.00	-17.33	1.00 H	172	29.47	-0.80
6	878.75	32.61 QP	46.00	-13.39	1.00 H	161	33.22	-0.61

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.





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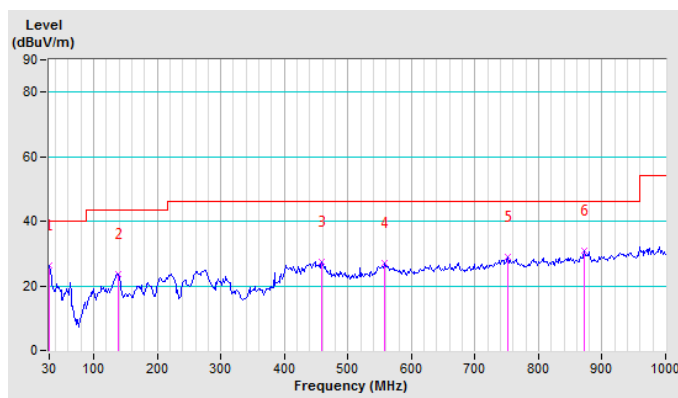
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CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	26.39 QP	40.00	-13.61	1.00 V	192	37.52	-11.13
2	138.81	23.53 QP	43.50	-19.97	1.00 V	47	40.72	-17.19
3	459.04	27.51 QP	46.00	-18.49	1.00 V	122	35.16	-7.65
4	558.53	27.03 QP	46.00	-18.97	1.00 V	208	30.70	-3.67
5	751.28	29.02 QP	46.00	-16.98	1.00 V	242	30.19	-1.17
6	872.53	30.75 QP	46.00	-15.25	1.00 V	301	31.02	-0.27

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.





Test Report No.: RF180703N033-2

Band 1 (5150-5250MHz):

ABOVE 1GHz DATA

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	48.07 PK	74.00	-25.93	1.00 H	204	42.27	5.80
2	5150.00	35.04 AV	54.00	-18.96	1.00 H	204	29.24	5.80
3	*5180.00	87.65 PK			1.00 H	204	81.74	5.91
4	*5180.00	77.44 AV			1.00 H	204	71.53	5.91
5	#10360.00	55.31 PK	74.00	-18.69	1.00 H	0	41.26	14.05
6	#10360.00	42.52 AV	54.00	-11.48	1.00 H	0	28.47	14.05
7	15540.00	61.52 PK	74.00	-12.48	1.00 H	360	40.63	20.89
8	15540.00	47.65 AV	54.00	-6.35	1.00 H	360	26.76	20.89
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	51.09 PK	74.00	-22.91	1.00 V	154	45.29	5.80
2	5150.00	35.83 AV	54.00	-18.17	1.00 V	154	30.03	5.80
3	*5180.00	92.47 PK			1.00 V	154	86.56	5.91
4	*5180.00	81.79 AV			1.00 V	154	75.88	5.91
5	#10360.00	54.58 PK	74.00	-19.42	1.00 V	0	40.53	14.05
6	#10360.00	42.84 AV	54.00	-11.16	1.00 V	0	28.79	14.05
7	15540.00	62.34 PK	74.00	-11.66	1.00 V	245	41.45	20.89
8	15540.00	46.58 AV	54.00	-7.42	1.00 V	245	25.69	20.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	46.52 PK	74.00	-27.48	1.00 H	185	40.72	5.80
2	5150.00	33.65 AV	54.00	-20.35	1.00 H	185	27.85	5.80
3	*5200.00	87.95 PK			1.00 H	185	81.97	5.98
4	*5200.00	78.65 AV			1.00 H	185	72.67	5.98
5	#10400.00	54.26 PK	74.00	-19.74	1.00 H	0	40.13	14.13
6	#10400.00	42.63 AV	54.00	-11.37	1.00 H	0	28.50	14.13
7	15600.00	61.36 PK	74.00	-12.64	1.00 H	360	40.33	21.03
8	15600.00	46.85 AV	54.00	-7.15	1.00 H	360	25.82	21.03
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	46.53 PK	74.00	-27.47	1.45 V	321	40.73	5.80
2	5150.00	35.15 AV	54.00	-18.85	1.45 V	321	29.35	5.80
3	*5200.00	93.15 PK			1.45 V	321	87.17	5.98
4	*5200.00	82.21 AV			1.45 V	321	76.23	5.98
5	#10400.00	55.26 PK	74.00	-18.74	1.00 V	0	41.13	14.13
6	#10400.00	43.17 AV	54.00	-10.83	1.00 V	0	29.04	14.13
7	15600.00	62.56 PK	74.00	-11.44	1.00 V	360	41.53	21.03
8	15600.00	47.56 AV	54.00	-6.44	1.00 V	360	26.53	21.03

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	47.85 PK	74.00	-26.15	1.00 H	210	42.05	5.80
2	5150.00	34.87 AV	54.00	-19.13	1.00 H	210	29.07	5.80
3	*5240.00	89.01 PK			1.00 H	210	82.89	6.12
4	*5240.00	78.50 AV			1.00 H	210	72.38	6.12
5	5350.00	49.99 PK	74.00	-24.01	1.00 H	210	43.46	6.53
6	5350.00	36.99 AV	54.00	-17.01	1.00 H	210	30.46	6.53
7	#10480.00	54.62 PK	74.00	-19.38	1.00 H	360	40.33	14.29
8	#10480.00	42.15 AV	54.00	-11.85	1.00 H	360	27.86	14.29
9	15720.00	61.42 PK	74.00	-12.58	1.00 H	0	40.11	21.31
10	15720.00	47.59 AV	54.00	-6.41	1.00 H	0	26.28	21.31
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	47.52 PK	74.00	-26.48	1.22 V	333	41.72	5.80
2	5150.00	34.86 AV	54.00	-19.14	1.22 V	333	29.06	5.80
3	*5240.00	95.39 PK			1.22 V	334	89.27	6.12
4	*5240.00	84.41 AV			1.22 V	334	78.29	6.12
5	5350.00	49.76 PK	74.00	-24.24	1.22 V	333	43.23	6.53
6	5350.00	37.22 AV	54.00	-16.78	1.22 V	333	30.69	6.53
7	#10480.00	55.40 PK	74.00	-18.60	1.00 V	0	41.11	14.29
8	#10480.00	42.80 AV	54.00	-11.20	1.00 V	0	28.51	14.29
9	15720.00	60.87 PK	74.00	-13.13	1.00 V	360	39.56	21.31
10	15720.00	46.53 AV	54.00	-7.47	1.00 V	360	25.22	21.31

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	51.23 PK	74.00	-22.77	1.00 H	148	45.43	5.80
2	5150.00	38.65 AV	54.00	-15.35	1.00 H	148	32.85	5.80
3	*5180.00	91.42 PK			1.00 H	148	85.51	5.91
4	*5180.00	79.51 AV			1.00 H	148	73.60	5.91
5	#10360.00	54.63 PK	74.00	-19.37	1.40 H	0	40.58	14.05
6	#10360.00	41.56 AV	54.00	-12.44	1.40 H	0	27.51	14.05
7	15540.00	60.85 PK	74.00	-13.15	1.00 H	0	39.96	20.89
8	15540.00	46.89 AV	54.00	-7.11	1.00 H	0	26.00	20.89
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.29 PK	74.00	-20.71	2.10 V	328	47.49	5.80
2	5150.00	36.64 AV	54.00	-17.36	2.10 V	328	30.84	5.80
3	*5180.00	95.56 PK			2.10 V	328	89.65	5.91
4	*5180.00	83.22 AV			2.10 V	328	77.31	5.91
5	#10360.00	54.87 PK	74.00	-19.13	1.00 V	0	40.82	14.05
6	#10360.00	41.25 AV	54.00	-12.75	1.00 V	0	27.20	14.05
7	15540.00	61.28 PK	74.00	-12.72	1.00 V	275	40.39	20.89
8	15540.00	46.51 AV	54.00	-7.49	1.00 V	275	25.62	20.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



**BUREAU
VERITAS**

Test Report No.: RF180703N033-2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	48.56 PK	74.00	-25.44	1.00 H	268	42.76	5.80
2	5150.00	36.25 AV	54.00	-17.75	1.00 H	268	30.45	5.80
3	*5200.00	91.47 PK			1.00 H	268	85.49	5.98
4	*5200.00	80.25 AV			1.00 H	268	74.27	5.98
5	#10400.00	55.81 PK	74.00	-18.19	1.00 H	0	41.68	14.13
6	#10400.00	41.45 AV	54.00	-12.55	1.00 H	0	27.32	14.13
7	15600.00	61.38 PK	74.00	-12.62	1.00 H	360	40.35	21.03
8	15600.00	47.24 AV	54.00	-6.76	1.00 H	360	26.21	21.03
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	49.62 PK	74.00	-24.38	1.45 V	267	43.82	5.80
2	5150.00	37.54 AV	54.00	-16.46	1.45 V	267	31.74	5.80
3	*5200.00	96.45 PK			1.45 V	267	90.47	5.98
4	*5200.00	83.69 AV			1.45 V	267	77.71	5.98
5	#10400.00	55.84 PK	74.00	-18.16	1.00 V	0	41.71	14.13
6	#10400.00	42.64 AV	54.00	-11.36	1.00 V	0	28.51	14.13
7	15600.00	62.58 PK	74.00	-11.42	1.00 V	360	41.55	21.03
8	15600.00	47.61 AV	54.00	-6.39	1.00 V	360	26.58	21.03

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	48.74 PK	74.00	-25.26	1.00 H	0	42.94	5.80
2	5150.00	38.65 AV	54.00	-15.35	1.00 H	0	32.85	5.80
3	*5240.00	92.15 PK			1.00 H	258	86.03	6.12
4	*5240.00	81.25 AV			1.00 H	258	75.13	6.12
5	5350.00	51.26 PK	74.00	-22.74	1.00 H	0	44.73	6.53
6	5350.00	39.65 AV	54.00	-14.35	1.00 H	0	33.12	6.53
7	#10480.00	54.63 PK	74.00	-19.37	1.00 H	360	40.34	14.29
8	#10480.00	41.26 AV	54.00	-12.74	1.00 H	360	26.97	14.29
9	15720.00	61.41 PK	74.00	-12.59	1.00 H	0	40.10	21.31
10	15720.00	46.58 AV	54.00	-7.42	1.00 H	0	25.27	21.31
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	48.53 PK	74.00	-25.47	1.22 V	320	42.73	5.80
2	5150.00	35.01 AV	54.00	-18.99	1.22 V	320	29.21	5.80
3	*5240.00	96.04 PK			1.22 V	320	89.92	6.12
4	*5240.00	84.60 AV			1.22 V	320	78.48	6.12
5	5350.00	49.93 PK	74.00	-24.07	1.22 V	320	43.40	6.53
6	5350.00	37.13 AV	54.00	-16.87	1.22 V	320	30.60	6.53
7	#10480.00	54.62 PK	74.00	-19.38	1.00 V	0	40.33	14.29
8	#10480.00	41.25 AV	54.00	-12.75	1.00 V	0	26.96	14.29
9	15720.00	62.15 PK	74.00	-11.85	1.00 V	360	40.84	21.31
10	15720.00	47.56 AV	54.00	-6.44	1.00 V	360	26.25	21.31

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.38 PK	74.00	-14.62	1.07 H	206	53.58	5.80
2	5150.00	39.72 AV	54.00	-14.28	1.07 H	206	33.92	5.80
3	*5190.00	89.06 PK			1.07 H	206	83.11	5.95
4	*5190.00	77.51 AV			1.07 H	206	71.56	5.95
5	#10380.00	53.26 PK	74.00	-20.74	1.00 H	0	39.17	14.09
6	#10380.00	40.15 AV	54.00	-13.85	1.00 H	0	26.06	14.09
7	15570.00	62.15 PK	74.00	-11.85	1.00 H	360	41.19	20.96
8	15570.00	46.54 AV	54.00	-7.46	1.00 H	360	25.58	20.96
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.84 PK	74.00	-8.16	1.00 V	327	60.04	5.80
2	5150.00	44.29 AV	54.00	-9.71	1.00 V	327	38.49	5.80
3	*5190.00	93.87 PK			1.00 V	327	87.92	5.95
4	*5190.00	82.01 AV			1.00 V	327	76.06	5.95
5	#10380.00	54.26 PK	74.00	-19.74	1.00 V	0	40.17	14.09
6	#10380.00	41.48 AV	54.00	-12.52	1.00 V	0	27.39	14.09
7	15570.00	61.25 PK	74.00	-12.75	1.00 V	360	40.29	20.96
8	15570.00	46.58 AV	54.00	-7.42	1.00 V	360	25.62	20.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.52 PK	74.00	-15.48	1.00 H	169	52.72	5.80
2	5150.00	40.25 AV	54.00	-13.75	1.00 H	169	34.45	5.80
3	*5230.00	90.25 PK			1.00 H	169	84.16	6.09
4	*5230.00	78.14 AV			1.00 H	169	72.05	6.09
5	#10460.00	54.15 PK	74.00	-19.85	1.00 H	0	39.90	14.25
6	#10460.00	41.35 AV	54.00	-12.65	1.00 H	0	27.10	14.25
7	15690.00	61.34 PK	74.00	-12.66	1.00 H	360	40.10	21.24
8	15690.00	46.81 AV	54.00	-7.19	1.00 H	360	25.57	21.24
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.35 PK	74.00	-9.65	1.35 V	328	58.55	5.80
2	5150.00	43.84 AV	54.00	-10.16	1.35 V	328	38.04	5.80
3	*5230.00	94.13 PK			1.35 V	328	88.04	6.09
4	*5230.00	82.65 AV			1.35 V	328	76.56	6.09
5	#10460.00	55.28 PK	74.00	-18.72	1.00 V	0	41.03	14.25
6	#10460.00	42.15 AV	54.00	-11.85	1.00 V	0	27.90	14.25
7	15690.00	62.26 PK	74.00	-11.74	1.00 V	360	41.02	21.24
8	15690.00	47.46 AV	54.00	-6.54	1.00 V	360	26.22	21.24

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	49.47 PK	74.00	-24.53	1.13 H	167	43.67	5.80
2	5150.00	35.95 AV	54.00	-18.05	1.13 H	167	30.15	5.80
3	*5210.00	88.70 PK			1.19 H	163	82.68	6.02
4	*5210.00	55.95 AV			1.19 H	163	49.93	6.02
5	#10420.00	55.96 PK	74.00	-18.04	1.27 H	88	41.79	14.17
6	#10420.00	43.41 AV	54.00	-10.59	1.27 H	88	29.24	14.17
7	15630.00	63.01 PK	74.00	-10.99	1.43 H	13	41.91	21.10
8	15630.00	50.92 AV	54.00	-3.08	1.43 H	13	29.82	21.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.23 PK	74.00	-14.77	1.70 V	333	53.43	5.80
2	5150.00	39.19 AV	54.00	-14.81	1.70 V	333	33.39	5.80
3	*5210.00	94.89 PK			1.70 V	333	88.87	6.02
4	*5210.00	60.08 AV			1.70 V	333	54.06	6.02
5	#10420.00	59.94 PK	74.00	-14.06	1.52 V	77	45.77	14.17
6	#10420.00	43.66 AV	54.00	-10.34	1.52 V	77	29.49	14.17
7	15630.00	64.03 PK	74.00	-9.97	1.53 V	79	42.93	21.10
8	15630.00	51.44 AV	54.00	-2.56	1.53 V	79	30.34	21.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Test Report No.: RF180703N033-2

Band 4 (5725-5850MHz):

ABOVE 1GHz DATA

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	50.04 PK	68.20	-18.16	1.84 H	344	43.02	7.02
2	#5700.00	49.57 PK	105.20	-55.63	1.84 H	344	42.57	7.00
3	#5720.00	57.71 PK	110.80	-53.09	1.84 H	344	50.71	7.00
4	#5725.00	67.22 PK	122.20	-54.98	1.84 H	344	60.23	6.99
5	*5745.00	95.91 PK			1.84 H	344	88.92	6.99
6	*5745.00	85.35 AV			1.84 H	344	78.36	6.99
7	11490.00	55.87 PK	74.00	-18.13	1.00 H	0	39.67	16.20
8	11490.00	41.36 AV	54.00	-12.64	1.00 H	0	25.16	16.20
9	#17235.00	62.15 PK	74.00	-11.85	1.00 H	147	39.09	23.06
10	#17235.00	47.59 AV	54.00	-6.41	1.00 H	147	24.53	23.06
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	50.10 PK	68.20	-18.10	4.00 V	16	43.08	7.02
2	#5700.00	52.77 PK	105.20	-52.43	4.00 V	16	45.77	7.00
3	#5720.00	61.85 PK	110.80	-48.95	4.00 V	16	54.85	7.00
4	#5725.00	70.41 PK	122.20	-51.79	4.00 V	16	63.42	6.99
5	*5745.00	100.70 PK			1.00 V	15	93.71	6.99
6	*5745.00	89.95 AV			1.00 V	15	82.96	6.99
7	11490.00	54.26 PK	74.00	-19.74	1.00 V	0	38.06	16.20
8	11490.00	39.56 AV	54.00	-14.44	1.00 V	0	23.36	16.20
9	#17235.00	61.25 PK	74.00	-12.75	1.00 V	360	38.19	23.06
10	#17235.00	47.65 AV	54.00	-6.35	1.00 V	360	24.59	23.06

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



**BUREAU
VERITAS**

Test Report No.: RF180703N033-2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	48.40 PK	68.20	-19.80	1.71 H	343	41.38	7.02
2	#5700.00	47.44 PK	105.20	-57.76	1.71 H	343	40.44	7.00
3	#5720.00	47.60 PK	110.80	-63.20	1.71 H	343	40.60	7.00
4	#5725.00	46.52 PK	122.20	-75.68	1.71 H	343	39.53	6.99
5	*5785.00	94.58 PK			3.42 H	170	87.62	6.96
6	*5785.00	83.82 AV			3.42 H	170	76.86	6.96
7	#5850.00	46.42 PK	122.20	-75.78	1.71 H	343	39.48	6.94
8	#5855.00	46.90 PK	110.80	-63.90	1.71 H	343	39.96	6.94
9	#5875.00	47.92 PK	105.20	-57.28	1.71 H	343	40.99	6.93
10	#5925.00	47.67 PK	68.20	-20.53	1.71 H	343	40.75	6.92
11	11570.00	55.14 PK	74.00	-18.86	1.00 H	0	38.74	16.40
12	11570.00	41.58 AV	54.00	-12.42	1.00 H	0	25.18	16.40
13	#17355.00	61.53 PK	74.00	-12.47	1.00 H	360	38.43	23.10
14	#17355.00	47.54 AV	54.00	-6.46	1.00 H	360	24.44	23.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
1	#5650.00	49.65 PK	68.20	-18.55	1.44 V	231	42.63	7.02
2	#5700.00	46.55 PK	105.20	-58.65	1.44 V	231	39.55	7.00
3	#5720.00	49.20 PK	110.80	-61.60	1.44 V	231	42.20	7.00
4	#5725.00	49.43 PK	122.20	-72.77	1.44 V	231	42.44	6.99
5	*5785.00	99.50 PK			1.43 V	231	92.54	6.96
6	*5785.00	89.03 AV			1.43 V	231	82.07	6.96
7	#5850.00	46.38 PK	122.20	-75.82	1.44 V	231	39.44	6.94
8	#5855.00	48.37 PK	110.80	-62.43	1.44 V	231	41.43	6.94
9	#5875.00	47.56 PK	105.20	-57.64	1.44 V	231	40.63	6.93
10	#5925.00	48.37 PK	68.20	-19.83	1.44 V	231	41.45	6.92
11	11570.00	54.62 PK	74.00	-19.38	1.00 V	0	38.22	16.40
12	11570.00	41.25 AV	54.00	-12.75	1.00 V	0	24.85	16.40
13	#17355.00	61.36 PK	74.00	-12.64	1.00 V	360	38.26	23.10
14	#17355.00	47.84 AV	54.00	-6.16	1.00 V	360	24.74	23.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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Test Report No.: RF180703N033-2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	92.78 PK			1.70 H	342	85.83	6.95
2	*5825.00	82.00 AV			1.70 H	342	75.05	6.95
3	#5850.00	52.74 PK	122.20	-69.46	1.71 H	342	45.80	6.94
4	#5855.00	49.26 PK	110.80	-61.54	1.71 H	342	42.32	6.94
5	#5875.00	48.04 PK	105.20	-57.16	1.71 H	342	41.11	6.93
6	#5925.00	47.87 PK	68.20	-20.33	1.71 H	342	40.95	6.92
7	11650.00	54.86 PK	74.00	-19.14	1.00 H	0	38.24	16.62
8	11650.00	41.87 AV	54.00	-12.13	1.00 H	0	25.25	16.62
9	#17475.00	62.34 PK	74.00	-11.66	1.00 H	360	39.19	23.15
10	#17475.00	47.59 AV	54.00	-6.41	1.00 H	360	24.44	23.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	95.96 PK			1.04 V	68	89.01	6.95
2	*5825.00	85.31 AV			1.04 V	68	78.36	6.95
3	#5850.00	56.36 PK	122.20	-65.84	1.05 V	68	49.42	6.94
4	#5855.00	53.06 PK	110.80	-57.74	1.05 V	68	46.12	6.94
5	#5875.00	49.36 PK	105.20	-55.84	1.05 V	68	42.43	6.93
6	#5925.00	49.03 PK	68.20	-19.17	1.05 V	68	42.11	6.92
7	11650.00	54.23 PK	74.00	-19.77	1.00 V	0	37.61	16.62
8	11650.00	41.63 AV	54.00	-12.37	1.00 V	0	25.01	16.62
9	#17475.00	61.34 PK	74.00	-12.66	1.00 V	360	38.19	23.15
10	#17475.00	46.85 AV	54.00	-7.15	1.00 V	360	23.70	23.15

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	47.73 PK	68.20	-20.47	1.04 H	340	40.71	7.02
2	#5700.00	52.06 PK	105.20	-53.14	1.04 H	340	45.06	7.00
3	#5720.00	59.92 PK	110.80	-50.88	1.04 H	340	52.92	7.00
4	#5725.00	67.03 PK	122.20	-55.17	1.04 H	340	60.04	6.99
5	*5745.00	95.95 PK			1.03 H	339	88.96	6.99
6	*5745.00	85.17 AV			1.03 H	339	78.18	6.99
7	11490.00	54.85 PK	74.00	-19.15	1.00 H	0	38.65	16.20
8	11490.00	42.66 AV	54.00	-11.34	1.00 H	0	26.46	16.20
9	#17235.00	61.24 PK	74.00	-12.76	1.00 H	0	38.18	23.06
10	#17235.00	47.18 AV	54.00	-6.82	1.00 H	0	24.12	23.06
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	50.23 PK	68.20	-17.97	1.00 V	21	43.21	7.02
2	#5700.00	59.25 PK	105.20	-45.95	1.00 V	21	52.25	7.00
3	#5720.00	66.41 PK	110.80	-44.39	1.00 V	21	59.41	7.00
4	#5725.00	75.20 PK	122.20	-47.00	1.00 V	21	68.21	6.99
5	*5745.00	100.10 PK			1.00 V	21	93.11	6.99
6	*5745.00	90.09 AV			1.00 V	21	83.10	6.99
7	11490.00	55.84 PK	74.00	-18.16	1.00 V	0	39.64	16.20
8	11490.00	41.76 AV	54.00	-12.24	1.00 V	0	25.56	16.20
9	#17235.00	62.64 PK	74.00	-11.36	1.00 V	360	39.58	23.06
10	#17235.00	47.81 AV	54.00	-6.19	1.00 V	360	24.75	23.06

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	48.64 PK	68.20	-19.56	1.71 H	343	41.62	7.02
2	#5700.00	47.06 PK	105.20	-58.14	1.71 H	343	40.06	7.00
3	#5720.00	47.61 PK	110.80	-63.19	1.71 H	343	40.61	7.00
4	#5725.00	47.79 PK	122.20	-74.41	1.71 H	343	40.80	6.99
5	*5785.00	94.01 PK			1.71 H	342	87.05	6.96
6	*5785.00	83.56 AV			1.71 H	342	76.60	6.96
7	#5850.00	47.10 PK	122.20	-75.10	1.71 H	343	40.16	6.94
8	#5855.00	47.53 PK	110.80	-63.27	1.71 H	343	40.59	6.94
9	#5875.00	47.36 PK	105.20	-57.84	1.71 H	343	40.43	6.93
10	#5925.00	47.97 PK	68.20	-20.23	1.71 H	343	41.05	6.92
11	11570.00	54.63 PK	74.00	-19.37	1.00 H	0	38.23	16.40
12	11570.00	41.74 AV	54.00	-12.26	1.00 H	0	25.34	16.40
13	#17355.00	61.39 PK	74.00	-12.61	1.00 H	360	38.29	23.10
14	#17355.00	46.98 AV	54.00	-7.02	1.00 H	360	23.88	23.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
1	#5650.00	48.32 PK	68.20	-19.88	1.55 V	230	41.30	7.02
2	#5700.00	48.00 PK	105.20	-57.20	1.55 V	230	41.00	7.00
3	#5720.00	47.95 PK	110.80	-62.85	1.55 V	230	40.95	7.00
4	#5725.00	50.39 PK	122.20	-71.81	1.55 V	230	43.40	6.99
5	*5785.00	98.79 PK			1.55 V	230	91.83	6.96
6	*5785.00	88.12 AV			1.55 V	230	81.16	6.96
7	#5850.00	46.84 PK	122.20	-75.36	1.55 V	230	39.90	6.94
8	#5855.00	47.26 PK	110.80	-63.54	1.55 V	230	40.32	6.94
9	#5875.00	46.65 PK	105.20	-58.55	1.55 V	230	39.72	6.93
10	#5925.00	47.88 PK	68.20	-20.32	1.55 V	230	40.96	6.92
11	11570.00	55.74 PK	74.00	-18.26	1.00 V	0	39.34	16.40
12	11570.00	42.51 AV	54.00	-11.49	1.00 V	0	26.11	16.40
13	#17355.00	62.38 PK	74.00	-11.62	1.00 V	360	39.28	23.10
14	#17355.00	47.54 AV	54.00	-6.46	1.00 V	360	24.44	23.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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Test Report No.: RF180703N033-2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	95.41 PK			1.00 H	263	88.46	6.95
2	*5825.00	84.25 AV			1.00 H	263	77.30	6.95
3	#5850.00	52.78 PK	122.20	-69.42	1.00 H	0	45.84	6.94
4	#5855.00	49.06 PK	110.80	-61.74	1.00 H	0	42.12	6.94
5	#5875.00	47.57 PK	105.20	-57.63	1.00 H	0	40.64	6.93
6	#5925.00	47.98 PK	68.20	-20.22	1.00 H	0	41.06	6.92
7	11650.00	54.37 PK	74.00	-19.63	1.00 H	0	37.75	16.62
8	11650.00	40.28 AV	54.00	-13.72	1.00 H	0	23.66	16.62
9	#17475.00	61.34 PK	74.00	-12.66	1.00 H	360	38.19	23.15
10	#17475.00	46.89 AV	54.00	-7.11	1.00 H	360	23.74	23.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	97.85 PK			1.45 V	226	90.90	6.95
2	*5825.00	87.57 AV			1.45 V	226	80.62	6.95
3	#5850.00	52.47 PK	122.20	-69.73	1.00 V	0	45.53	6.94
4	#5855.00	49.06 PK	110.80	-61.74	1.00 V	0	42.12	6.94
5	#5875.00	47.49 PK	105.20	-57.71	1.00 V	0	40.56	6.93
6	#5925.00	47.98 PK	68.20	-20.22	1.00 V	0	41.06	6.92
7	11650.00	55.25 PK	74.00	-18.75	1.00 V	0	38.63	16.62
8	11650.00	41.25 AV	54.00	-12.75	1.00 V	0	24.63	16.62
9	#17475.00	62.45 PK	74.00	-11.55	1.00 V	360	39.30	23.15
10	#17475.00	47.51 AV	54.00	-6.49	1.00 V	360	24.36	23.15

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	52.03 PK	68.20	-16.17	3.19 H	322	45.01	7.02
2	#5700.00	58.38 PK	105.20	-46.82	3.59 H	322	51.38	7.00
3	#5720.00	67.51 PK	110.80	-43.29	3.95 H	322	60.51	7.00
4	#5725.00	66.47 PK	122.20	-55.73	3.99 H	322	59.48	6.99
5	*5755.00	92.93 PK			1.56 H	322	85.96	6.97
6	*5755.00	81.33 AV			1.56 H	322	74.36	6.97
7	11510.00	54.32 PK	74.00	-19.68	1.00 H	0	38.07	16.25
8	11510.00	39.45 AV	54.00	-14.55	1.00 H	0	23.20	16.25
9	#17265.00	61.02 PK	74.00	-12.98	1.00 H	360	37.94	23.08
10	#17265.00	46.23 AV	54.00	-7.77	1.00 H	360	23.15	23.08
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	53.15 PK	68.20	-15.05	2.08 V	193	46.13	7.02
2	#5700.00	63.86 PK	105.20	-41.34	2.38 V	193	56.86	7.00
3	#5720.00	74.27 PK	110.80	-36.53	2.22 V	193	67.27	7.00
4	#5725.00	75.82 PK	122.20	-46.38	1.86 V	193	68.83	6.99
5	*5755.00	97.37 PK			1.00 V	192	90.40	6.97
6	*5755.00	86.29 AV			1.00 V	192	79.32	6.97
7	11510.00	54.15 PK	74.00	-19.85	1.00 V	0	37.90	16.25
8	11510.00	40.25 AV	54.00	-13.75	1.00 V	0	24.00	16.25
9	#17265.00	61.25 PK	74.00	-12.75	1.00 V	360	38.17	23.08
10	#17265.00	46.58 AV	54.00	-7.42	1.00 V	360	23.50	23.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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Test Report No.: RF180703N033-2

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	91.65 PK			1.69 H	226	84.69	6.96
2	*5795.00	80.29 AV			1.69 H	226	73.33	6.96
3	#5850.00	53.97 PK	122.20	-68.23	2.26 H	170	47.03	6.94
4	#5855.00	50.88 PK	110.80	-59.92	2.26 H	170	43.94	6.94
5	#5875.00	49.25 PK	105.20	-55.95	2.26 H	170	42.32	6.93
6	#5925.00	47.69 PK	68.20	-20.51	2.26 H	170	40.77	6.92
7	11590.00	54.26 PK	74.00	-19.74	1.00 H	0	37.80	16.46
8	11590.00	40.78 AV	54.00	-13.22	1.00 H	0	24.32	16.46
9	#17385.00	61.32 PK	74.00	-12.68	1.00 H	360	38.21	23.11
10	#17385.00	46.51 AV	54.00	-7.49	1.00 H	360	23.40	23.11
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	97.03 PK			1.00 V	242	90.07	6.96
2	*5795.00	85.74 AV			1.00 V	242	78.78	6.96
3	#5850.00	59.24 PK	122.20	-62.96	1.00 V	242	52.30	6.94
4	#5855.00	58.26 PK	110.80	-52.54	1.00 V	242	51.32	6.94
5	#5875.00	53.72 PK	105.20	-51.48	1.00 V	242	46.79	6.93
6	#5925.00	49.60 PK	68.20	-18.60	1.00 V	242	42.68	6.92
7	11590.00	55.62 PK	74.00	-18.38	1.00 V	0	39.16	16.46
8	11590.00	42.15 AV	54.00	-11.85	1.00 V	0	25.69	16.46
9	#17385.00	62.35 PK	74.00	-11.65	1.00 V	360	39.24	23.11
10	#17385.00	47.15 AV	54.00	-6.85	1.00 V	360	24.04	23.11

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



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Test Report No.: RF180703N033-2

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								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	49.65 PK	68.20	-18.55	1.59 H	136	42.63	7.02
2	#5700.00	50.88 PK	105.20	-54.32	1.59 H	136	43.88	7.00
3	#5720.00	52.34 PK	110.80	-58.46	1.59 H	136	45.34	7.00
4	#5725.00	52.35 PK	122.20	-69.85	1.59 H	136	45.36	6.99
5	*5775.00	85.20 PK			1.12 H	197	78.23	6.97
6	*5775.00	55.52 AV			1.12 H	197	48.55	6.97
7	#5850.00	48.89 PK	122.20	-73.31	1.59 H	136	41.95	6.94
8	#5855.00	49.41 PK	110.80	-61.39	1.59 H	136	42.47	6.94
9	#5875.00	48.68 PK	105.20	-56.52	1.59 H	136	41.75	6.93
10	#5925.00	49.47 PK	68.20	-18.73	1.59 H	136	42.55	6.92
11	11550.00	58.07 PK	74.00	-15.93	1.45 H	32	41.71	16.36
12	11550.00	44.95 AV	54.00	-9.05	1.45 H	32	28.59	16.36
13	#17325.00	64.70 PK	74.00	-9.30	1.75 H	99	41.60	23.10
14	#17325.00	51.82 AV	54.00	-2.18	1.75 H	99	28.72	23.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	51.36 PK	68.20	-16.84	1.13 V	45	44.34	7.02
2	#5700.00	54.81 PK	105.20	-50.39	1.13 V	45	47.81	7.00
3	#5720.00	58.47 PK	110.80	-52.33	1.13 V	45	51.47	7.00
4	#5725.00	57.71 PK	122.20	-64.49	1.13 V	45	50.72	6.99
5	*5775.00	92.97 PK			1.13 V	137	86.00	6.97
6	*5775.00	58.64 AV			1.13 V	137	51.67	6.97
7	#5850.00	53.66 PK	122.20	-68.54	1.13 V	45	46.72	6.94
8	#5855.00	52.75 PK	110.80	-58.05	1.13 V	45	45.81	6.94
9	#5875.00	49.75 PK	105.20	-55.45	1.13 V	45	42.82	6.93
10	#5925.00	48.60 PK	68.20	-19.60	1.13 V	45	41.68	6.92
11	11550.00	54.68 PK	74.00	-19.32	1.59 V	97	38.32	16.36
12	11550.00	45.25 AV	54.00	-8.75	1.59 V	97	28.89	16.36
13	#17325.00	64.66 PK	74.00	-9.34	1.33 V	85	41.56	23.10
14	#17325.00	51.21 AV	54.00	-2.79	1.33 V	85	28.11	23.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 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.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Mar. 21,18	Mar. 20,19
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 03,18	Mar. 02,19
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 11,18	Apr. 10,19
Voltage probe	SCHWARZBEC K	TK 9421	TK 9421-176	Jan. 17,18	Jan. 16,19
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

- NOTE:**
1. The test was performed in shielded room 553.
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.



3.2.3 TEST PROCEDURES

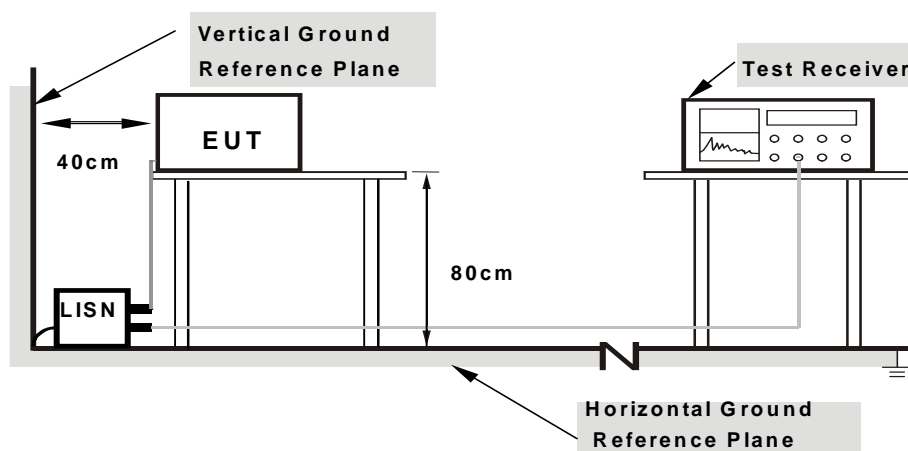
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 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).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.6



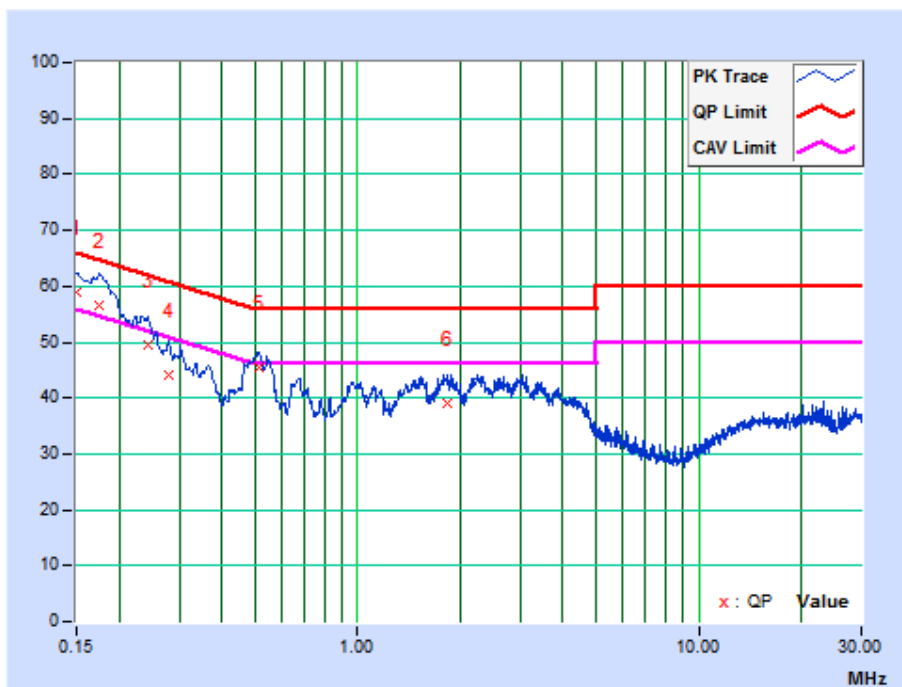
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a

PHASE	Line	6dB BANDWIDTH	9kHz
-------	------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.90	48.97	29.95	58.87	39.85	66.00	56.00	-7.13	-16.15
2	0.17420	10.40	46.26	29.20	56.66	39.60	64.76	54.76	-8.10	-15.16
3	0.24167	9.84	39.51	26.79	49.35	36.63	62.04	52.04	-12.69	-15.41
4	0.27871	9.72	34.24	22.76	43.96	32.48	60.85	50.85	-16.89	-18.37
5	0.51155	9.77	35.70	22.96	45.47	32.73	56.00	46.00	-10.53	-13.27
6	1.82850	9.85	29.34	19.25	39.19	29.10	56.00	46.00	-16.81	-16.90

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

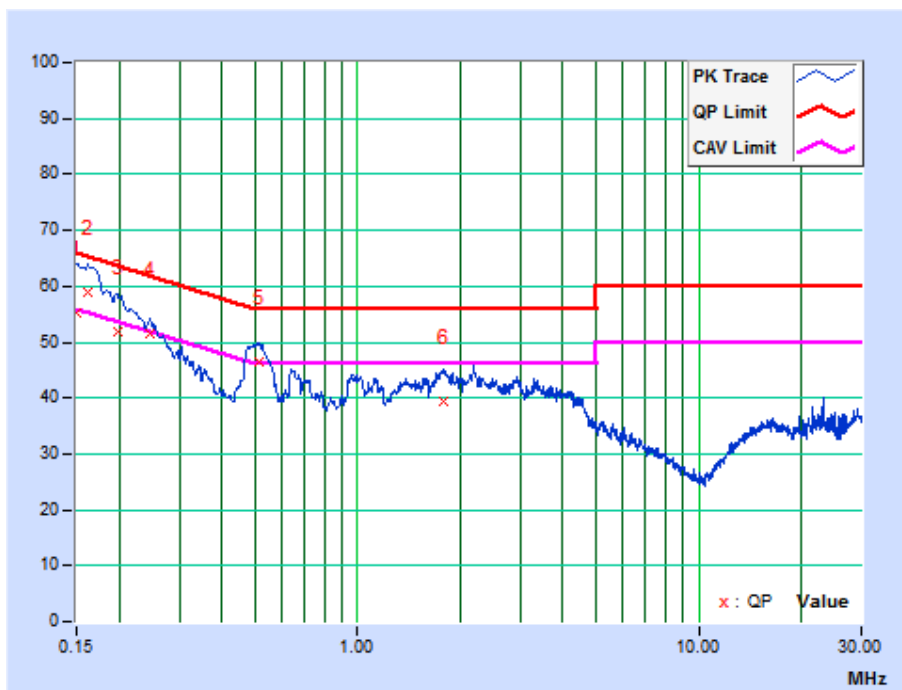




PHASE	Neutral	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.63	45.57	31.35	55.20	40.98	66.00	56.00	-10.80	-15.02
2	0.16125	9.92	49.16	30.13	59.08	40.05	65.40	55.40	-6.32	-15.35
3	0.19721	9.70	42.04	29.31	51.74	39.01	63.73	53.73	-11.99	-14.72
4	0.24675	10.48	41.02	27.26	51.50	37.74	61.87	51.87	-10.36	-14.12
5	0.51698	10.24	36.22	21.70	46.46	31.94	56.00	46.00	-9.54	-14.06
6	1.78346	10.09	29.39	17.92	39.48	28.01	56.00	46.00	-16.52	-17.99

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.





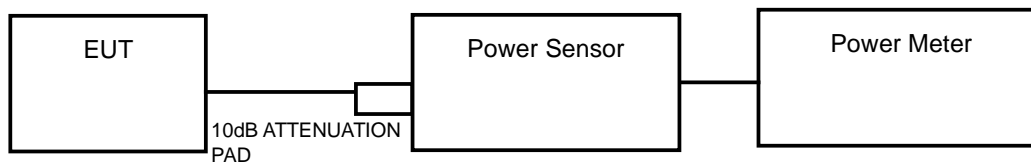
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

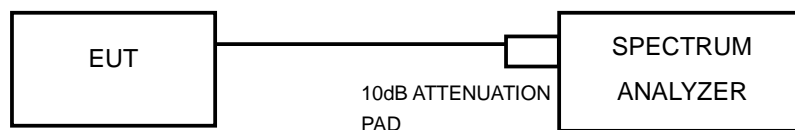
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client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

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.3.2 TEST SETUP



FOR 6 BANDWIDTH





3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Jun. 13,18	Jun. 12,19
Power Sensor	Keysight	U2021XA	MY55060018	Jun. 13,18	Jun. 12,19
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 21, 17	Oct.20, 18
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,18	Sep. 04,19
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 08,17	Nov. 07,18
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 21,18	Mar. 20,19
Signal Generator	Agilent	N5183A	MY50140980	Jan. 02,18	Jan. 01,19
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jan. 02,18	Jan. 01,19
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	100908	Jan. 10, 18	Jan. 09, 19
Vector Signal Generator	Rohde&Schwarz	SMBV100A	257199	Jun. 13,18	Jun. 12,19
Attenuator	MINI	BW-S10W2 +	S130129FGE2	N/A	N/A

NOTE:

1. The test was performed in RF Oven 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.

3.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

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.



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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.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

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

**3.3.7 TEST RESULTS****802.11a**

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	11.26	13.366	24.00	PASS
40	5200	11.31	13.521	24.00	PASS
48	5240	11.73	14.894	24.00	PASS
149	5745	10.52	11.272	30.00	PASS
157	5785	10.23	10.544	30.00	PASS
165	5825	10.48	11.169	30.00	PASS

802.11n (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	11.55	14.289	24.00	PASS
40	5200	11.38	13.74	24.00	PASS
48	5240	11.61	14.488	24.00	PASS
149	5745	10.81	12.05	30.00	PASS
157	5785	10.16	10.375	30.00	PASS
165	5825	10.66	11.641	30.00	PASS



802.11n (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
38	5190	8.11	6.471	24.00	PASS
46	5230	7.68	5.861	24.00	PASS
151	5755	7.18	5.224	30.00	PASS
159	5795	7.02	5.035	30.00	PASS

802.11ac (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
42	5210	4.39	2.748	24.00	PASS
155	5775	4.51	2.825	30.00	PASS



6dB BANDWIDTH For 5725-5850MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	16.40	PASS
157	5785	16.40	PASS
165	5825	16.41	PASS

802.11n (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	17.64	PASS
157	5785	17.65	PASS
165	5825	17.66	PASS

802.11n (40M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
151	5755	36.46	PASS
159	5795	36.47	PASS

802.11ac (80MHz)

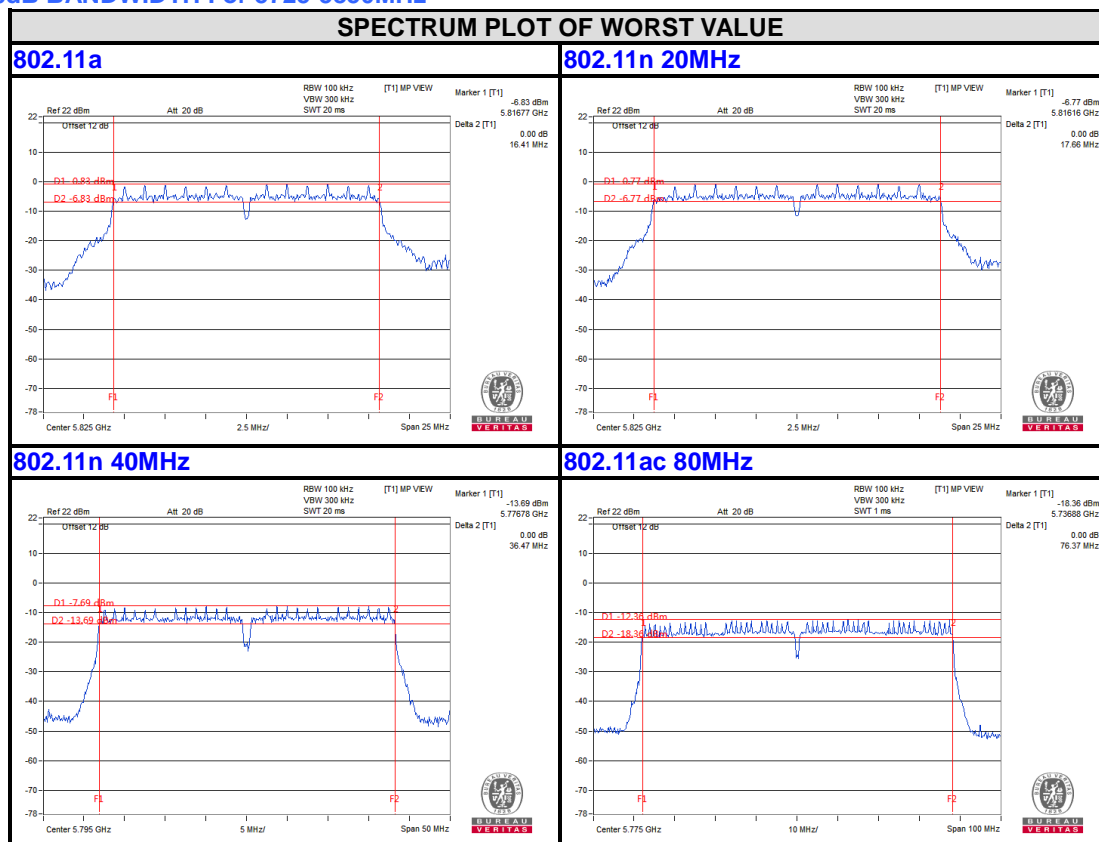
Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
155	5775	76.37	PASS



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Test Report No.: RF180703N033-2

6dB BANDWIDTH For 5725-5850MHz



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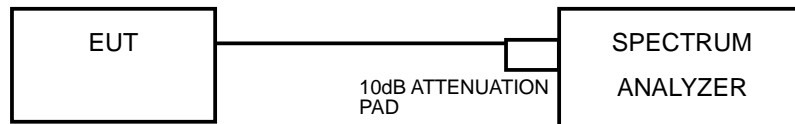


3.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF PEAK 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	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW = 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) Record the max value and add 10 log (1/duty cycle)



For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW = 1 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) Record the max value and add 10 log (1/duty cycle)

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.3.6



3.4.7 TEST RESULTS

For U-NII-1, For U-NII-3:
802.11a

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		MAX. Limit (dBm)	PASS / FAIL
36	5180	-2.08		11.00	PASS
40	5200	-2.34		11.00	PASS
48	5240	-2.04		11.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
149	5745	-10.92	-8.70	30.00	PASS
157	5785	-11.64	-9.42	30.00	PASS
165	5825	-11.38	-9.16	30.00	PASS

802.11n (20MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		MAX. Limit (dBm)	PASS / FAIL
36	5180	-2.70		11.00	PASS
40	5200	-2.70		11.00	PASS
48	5240	-2.44		11.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
149	5745	-11.42	-9.20	30.00	PASS
157	5785	-11.98	-9.76	30.00	PASS
165	5825	-11.86	-9.64	30.00	PASS

**802.11n (40MHz)**

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		MAX. Limit (dBm)	PASS / FAIL
38	5190	-9.12		11.00	PASS
46	5230	-9.82		11.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
151	5755	-18.42	-16.20	30.00	PASS
159	5795	-19.01	-16.79	30.00	PASS

802.11ac (80MHz)

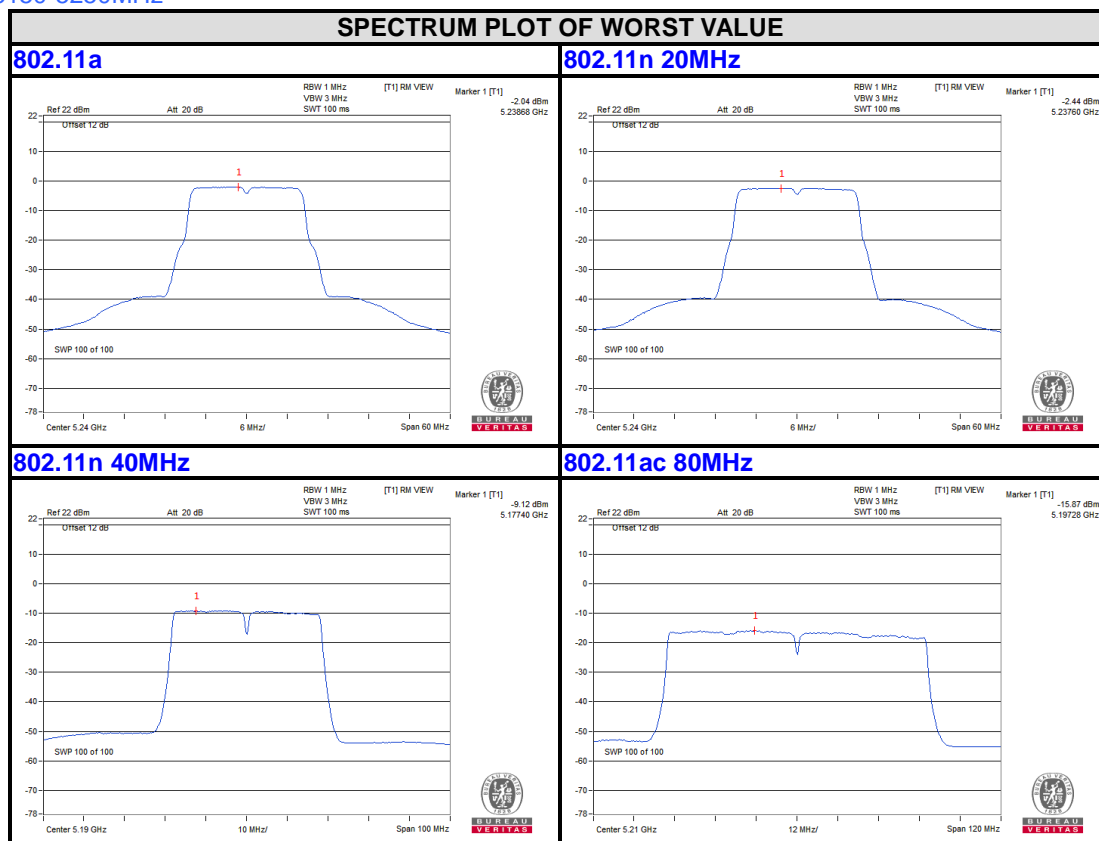
Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		MAX. Limit (dBm)	PASS / FAIL
42	5210	-15.87		11.00	PASS
Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)	RF Power Level in 500kHz BW (dBm)	MAX. Limit (dBm/500k)	PASS / FAIL
155	5775	-24.93	-22.71	30.00	PASS



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PSD Test Plot
BAND 1
5150-5250MHz



Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

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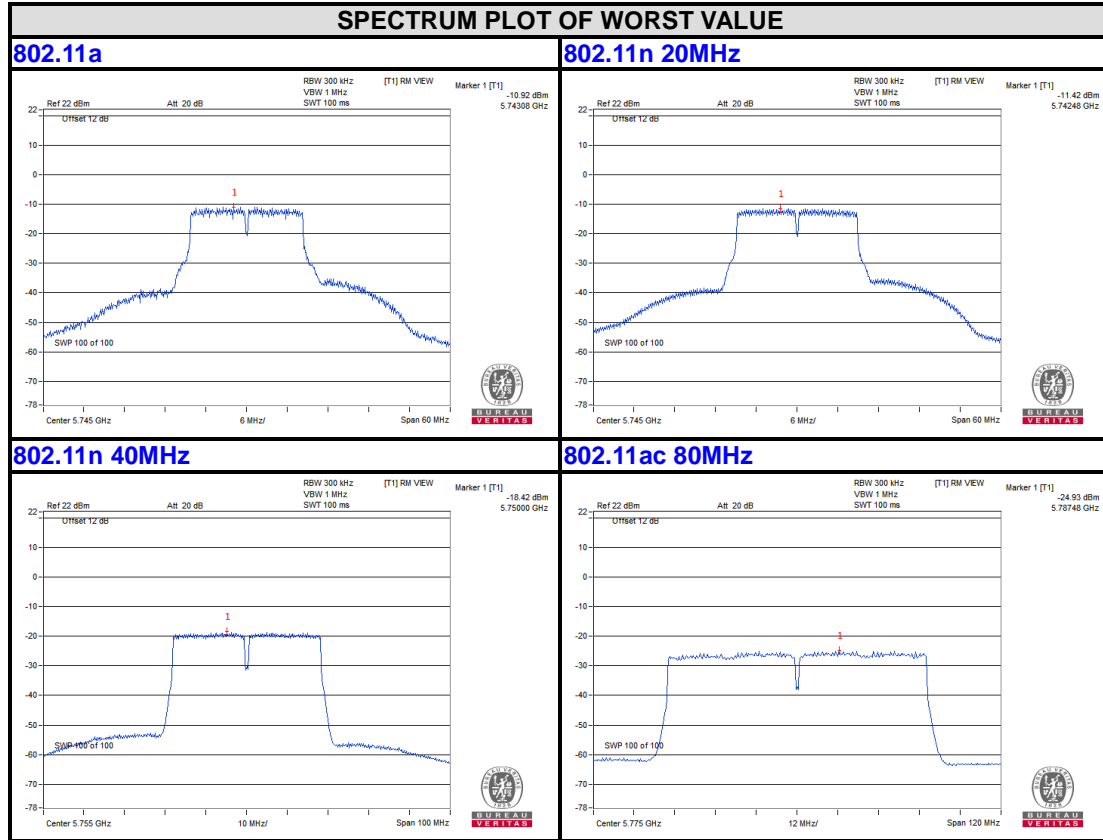
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BUREAU
VERITAS

Test Report No.: RF180703N033-2

BAND4
5725-5850MHz



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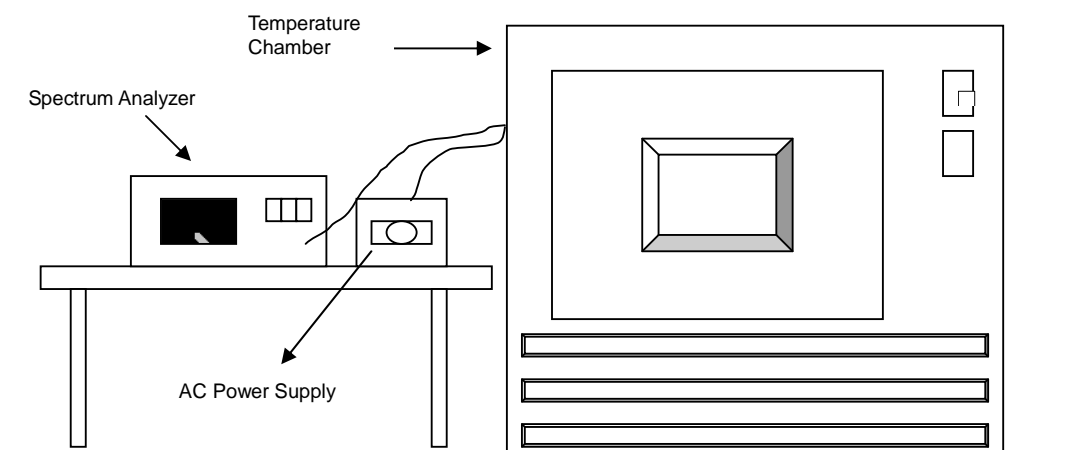


3.5 FREQUENCY STABILITY

3.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation.

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 PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.



3.5.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	120	5180.0047	0.00009	5180.008	0.00015	5180.0074	0.00014	5180.0065	0.00013
40	120	5180.0156	0.00030	5180.013	0.00025	5180.0167	0.00032	5180.0135	0.00026
30	120	5180.025	0.00048	5180.0261	0.00050	5180.0274	0.00053	5180.0275	0.00053
20	120	5179.982	-0.00035	5179.9827	-0.00033	5179.9864	-0.00026	5179.982	-0.00035
10	120	5180.0115	0.00022	5180.0102	0.00020	5180.0104	0.00020	5180.0103	0.00020
0	120	5180.0033	0.00006	5180.0037	0.00007	5179.9997	-0.00001	5180.0002	0.00000
-10	120	5179.9752	-0.00048	5179.9735	-0.00051	5179.974	-0.00050	5179.9778	-0.00043
-20	120	5179.9901	-0.00019	5179.988	-0.00023	5179.986	-0.00027	5179.9888	-0.00022
-30	120	5180.0158	0.00031	5180.0143	0.00028	5180.0147	0.00028	5180.0149	0.00029

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
20	138	5179.9829	-0.00033	5179.9826	-0.00034	5179.9861	-0.00027	5179.9819	-0.00035
	120	5179.982	-0.00035	5179.9827	-0.00033	5179.9864	-0.00026	5179.982	-0.00035
	102	5179.981	-0.00037	5179.982	-0.00035	5179.9864	-0.00026	5179.9815	-0.00036



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4. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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.

---END---