Test Lab
Cert 2951.01

TEST REPORT

Applicant	TP-Link Technologies Co., Ltd.
Address	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China

Manufacturer or Supplier	TP-Link Technologies Co., Ltd.
Address	Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Product Name	AC1300 High Gain Wireless Dual Band USB Adapter
Brand Name	TP-Link
Model	Archer T4UH
Additional Model & Model Difference	N/A
Date of tests	Oct. 12, 2016 ~ Nov. 28, 2016

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 Harry Li Project Engineer/ EMC Department	Approved by Glyn He Supervisor / EMC Department
	Date: Feb. 27, 2017

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF160907N035-2	Original release.	Feb. 27, 2017

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) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	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	2.90dB
	30MHz ~ 1GMHz	3.83dB
	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

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 NAME	AC1300 High Gain Wireless Dual Band USB Adapter
MODEL NO.	Archer T4UH
FCC ID	TE7T4UHV2
POWER SUPPLY	DC 5V From USB
MODULATION TYPE	DSSS: DBPSK, DQPSK,CCK OFDM: 256QAM, 64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	DSSS,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 300.0Mbps 802.11ac : up to 867Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, (without open 5600~5650MHz) 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz):2 1 channel for 802.11ac 80MHz 5260 ~ 5320MHz: 4 channels for 802.11a, 802.11n (20MHz) 2 channels for 802.11n, 11ac (40MHz) 1 channel for 802.11ac (80MHz) 5500 ~ 5700MHz: (without open 5600~5650MHz) 8 channels for 802.11a, 802.11n (20MHz) 3 channels for 802.11n (40MHz) 1 channel for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz) 1 channel for 802.11ac (80MHz)
CONDUCTED OUTPUT POWER	17.09 dBm for 5150 ~ 5250MHz (Maximum AVG Power) 17.19 dBm for 5250 ~ 5350MHz (Maximum AVG Power) 17.01 dBm for 5470 ~ 5725MHz (Maximum AVG Power) 17.93 dBm for 5725 ~ 5850MHz (Maximum AVG Power)
ANTENNA TYPE	5180 ~ 5240MHz: PIFA antenna with 2dBi gain 5260 ~ 5320MHz: PIFA antenna with 2dBi gain 5500 ~ 5700MHz: PIFA antenna with 2dBi gain 5745 ~ 5825MHz: PIFA antenna with 2dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Extension Cable (1m, Shielding)

NOTE:

1. The EUT incorporates a SIMO function. Physically, the EUT provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX FUNCTION
802.11a	1TX/1RX
802.11ac 80MHz	2TX/2RX
802. 11n 20MHz	2TX/2RX
802. 11n 40MHz	2TX/2RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

3. The EUT has disabled the 5600-5650MHz band by S/W to avoid Weather Channel

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Please refer to the EUT photo document (Reference No.: 160907N035) for detailed product photo.

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11a c 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 802.11a c 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 5250 ~ 5350MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290MHz	--	--

FOR 5470 ~ 5725MHz

8 channels are provided for 802.11a, 802.11a c 20MHz, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz
116	5580 MHz	132	5660 MHz
136	5680 MHz	140	5700 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	110	5550 MHz
134	5670 MHz	--	--

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	--	--

FOR 5725 ~ 5850MHz

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

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

2 channels are provided for 802.11a c 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≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	**Powered by USB with wifi(5G) link**

Where **RE≥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 **Z-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)
-	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	V0
-	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
	802.11ac 80MHz		58	58	OFDM	BPSK	V0
-	802.11a	5470-5725	100 to 140	100, 112, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 112, 140	OFDM	BPSK	MCS0
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11ac 80MHz		106	106	OFDM	BPSK	V0
-	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	MCS0
-	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0
	802.11ac 80MHz		155	155	OFDM	BPSK	V0

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)
-	802.11a	5150-5250 5470-5725 5725-5850	36 to 48 100 to 140 149 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)
-	802.11a	5150-5250 5470-5725 5725-5850	36 to 48 100 to 140 149 to 165	-	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)
-	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	V0
-	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
-	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
-	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
	802.11ac 80MHz		58	58	OFDM	BPSK	V0
-	802.11a	5470-5725	100 to 140	100, 112, 140	OFDM	BPSK	6.0
-	802.11n (20MHz)		100 to 140	100, 112, 140	OFDM	BPSK	MCS0
-	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11ac 80MHz		106	106	OFDM	BPSK	V0
-	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	MCS0
-	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0
	802.11ac 80MHz		155	155	OFDM	BPSK	V0

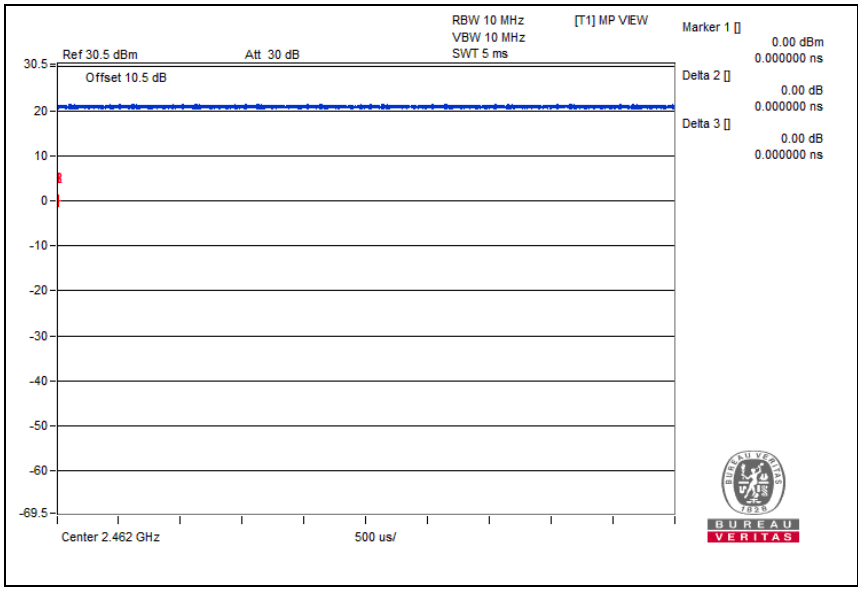
TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	24deg. C, 55%RH	DC 5V From USB	Eric Fang
RE≥1G	24deg. C, 55%RH	DC 5V From USB	Eric Fang
PLC	20deg. C, 56%RH	DC 5V From USB	Yang
APCM	20deg. C, 55%RH	DC 5V From USB	Harry Li

2.3 DUTY CYCLE OF TEST SIGNAL

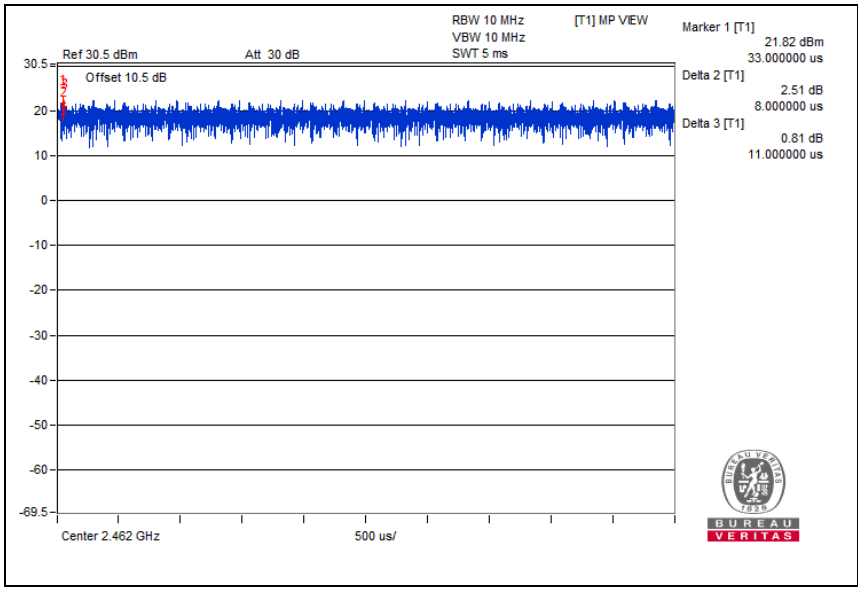
Chain 0:

Duty cycle of test signal is 100 %



Chain 1:

Duty cycle of test signal is 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	Notebook	DELL	5P2PM2X	12400120329	N/A
2	Printer	Lenovo	LJ2200L	LP02857415	N/A
3	Mouse	DELL	MS111-L	CN-09RRC7-44751-0C6-04TR	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.8m; DC Line: Unshielded, Detachable 1.8m;
2	AC Line: Unshielded, Detachable 1.8m, USB Line: Unshielded, Detachable 1.8m.
3	AC Line: Unshielded, Detachable 1.5m, USB Line: Unshielded, Detachable 1.5m.

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 v01r03
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 v01r03	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:

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

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Apr. 05,16	Apr. 04,17
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 16	Jul. 13, 17
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 18,16	May 17,17
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Mar. 12,16	Mar. 11,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	Mar. 12,16	Mar. 11,17
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,16	Mar. 03, 17
Pre-Amplifier(1-18G)	HP	8449B	3008A00409	Apr. 25,16	Apr. 24,17
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
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, 24 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 above1GHz if tested.
3. The FCC Site Registration No. is 502831.

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:

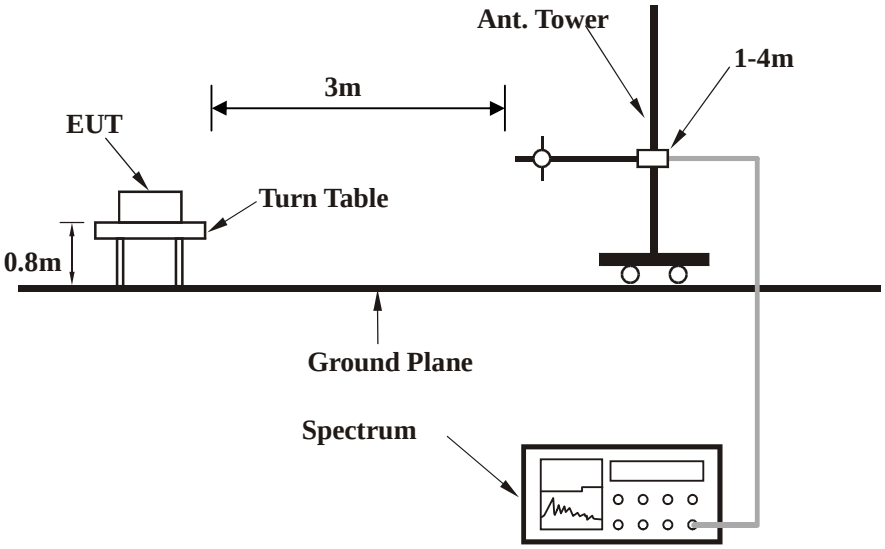
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 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.

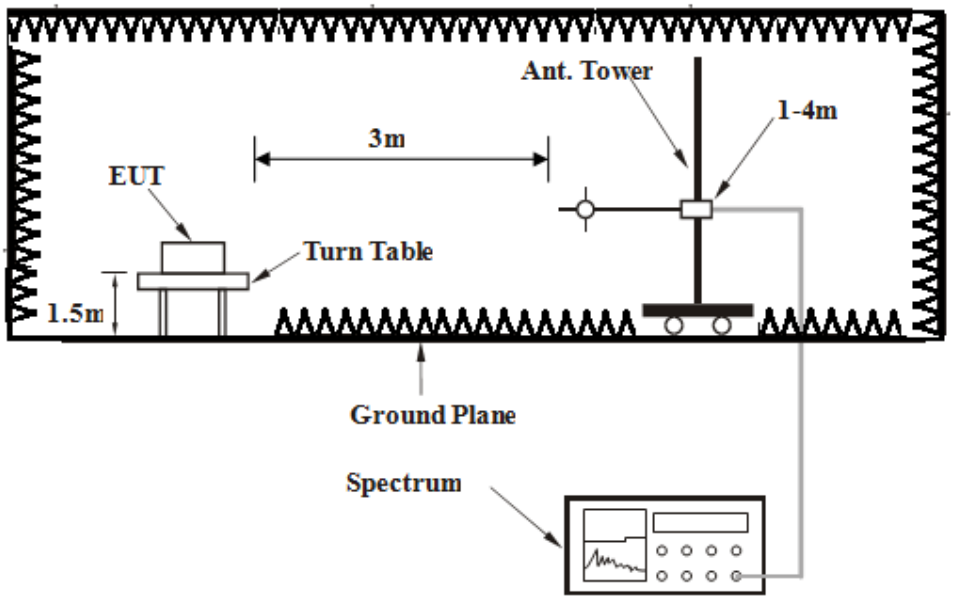
3.1.6 TEST SETUP

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).

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

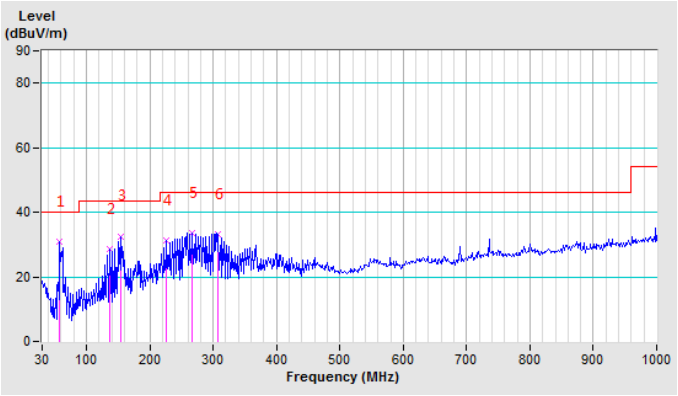
802.11a

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 (cm)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	58.12	30.95	40.00	-9.05	100	0	54.83	-23.88
2	136.84	28.74	43.50	-14.76	100	0	45.84	-17.10
3	153.71	32.57	43.50	-10.93	100	0	49.17	-16.60
4	226.81	31.21	46.00	-14.79	100	0	48.93	-17.72
5	267.58	33.45	46.00	-12.55	100	0	46.74	-13.29
6	308.35	33.32	46.00	-12.68	100	0	45.61	-12.29

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

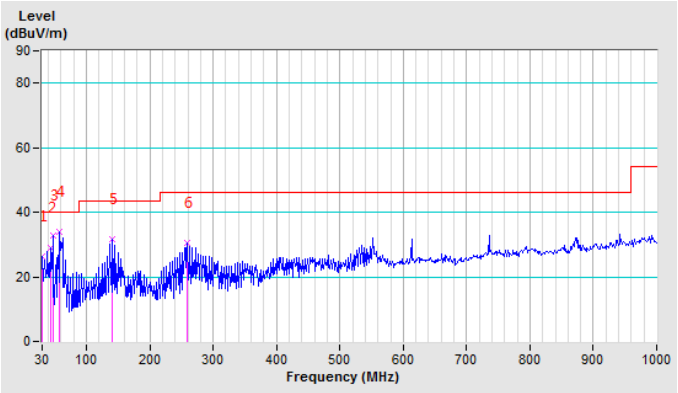


CHANNEL	TX Channel 36	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	26.45	40.00	-13.55	100	0	37.23	-10.78
2	42.65	29.12	40.00	-10.88	100	0	46.48	-17.36
3	46.87	32.93	40.00	-7.07	100	0	52.92	-19.99
4	58.12	33.85	40.00	-6.15	100	0	57.73	-23.88
5	141.06	31.68	43.50	-11.82	100	0	48.82	-17.14
6	259.14	30.35	46.00	-15.65	100	0	43.07	-12.72

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



Band 1 (5150-5250MHz):

ABOVE 1GHz DATA

802.11a

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

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	64.25 PK	74.00	-9.75	2.09 H	273	55.78	8.47
2	5150.00	48.95 AV	54.00	-5.05	2.09 H	273	40.48	8.47
3	*5180.00	106.58 PK			2.09 H	273	98.06	8.52
4	*5180.00	95.86 AV			2.09 H	273	87.34	8.52
5	#10360.00	56.96 PK	74.00	-17.04	2.00 H	350	36.73	20.23
6	#10360.00	44.31 AV	54.00	-9.69	2.00 H	350	24.08	20.23
7	15540.00	60.39 PK	74.00	-13.61	1.20 H	250	37.70	22.69
8	15540.00	46.95 AV	54.00	-7.05	1.20 H	250	24.26	22.69
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	65.25 PK	74.00	-8.75	1.00 V	40	56.78	8.47
2	5150.00	50.26 AV	54.00	-3.74	1.00 V	40	41.79	8.47
3	*5180.00	108.26 PK			1.00 V	40	99.74	8.52
4	*5180.00	98.74 AV			1.00 V	40	90.22	8.52
5	#10360.00	57.29 PK	74.00	-16.71	1.00 V	107	37.06	20.23
6	#10360.00	45.53 AV	54.00	-8.47	1.00 V	107	25.30	20.23
7	15540.00	60.67 PK	74.00	-13.33	1.00 V	250	37.98	22.69
8	15540.00	47.25 AV	54.00	-6.75	1.00 V	250	24.56	22.69

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5149.90	59.44 PK	74.00	-14.56	1.80 H	261	50.97	8.47
2	5149.90	47.60 AV	54.00	-6.40	1.80 H	261	39.13	8.47
3	*5200.00	108.35 PK			1.57 H	304	100.01	8.34
4	*5200.00	99.08 AV			1.57 H	304	90.74	8.34
5	#10400	59.34 PK	74.00	-14.66	1.92 H	105	40.03	19.31
6	#10400	44.78 AV	54.00	-9.22	1.92 H	105	25.47	19.31
7	15600.00	60.02 PK	74.00	-13.98	2.44 H	200	38.43	21.59
8	15600.00	47.31 AV	54.00	-6.69	2.44 H	200	25.72	21.59
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	5149.90	57.19 PK	74.00	-16.81	1.50 V	200	48.72	8.47
2	5149.90	47.13 AV	54.00	-6.87	1.50 V	200	38.66	8.47
3	*5200.00	106.79 PK			1.00 V	216	98.45	8.34
4	*5200.00	97.35 AV			1.00 V	216	89.01	8.34
5	#10400.00	62.73 PK	74.00	-11.27	1.84 V	294	43.42	19.31
6	#10400.00	49.38 AV	54.00	-4.62	1.84 V	294	30.07	19.31
7	15600.00	65.14 PK	74.00	-8.86	2.50 V	185	43.55	21.59
8	15600.00	46.32 AV	54.00	-7.68	2.50 V	185	24.73	21.59

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	44.06 PK	74.00	-29.94	1.00 H	88	35.59	8.47
2	5150.00	33.95 AV	54.00	-20.05	1.00 H	88	25.48	8.47
3	*5240.00	105.66 PK			1.00 H	88	97.06	8.60
4	*5240.00	95.26 AV			1.00 H	88	86.66	8.60
5	5350.00	45.21 PK	74.00	-28.79	1.00 H	88	36.44	8.77
6	5350.00	33.26 AV	54.00	-20.74	1.00 H	88	24.49	8.77
7	#10480.00	58.12 PK	74.00	-15.88	2.51 H	250	37.78	20.34
8	#10480.00	45.29 AV	54.00	-8.71	2.51 H	250	24.95	20.34
9	15720.00	62.02 PK	74.00	-11.98	2.55 H	23	39.20	22.82
10	15720.00	48.25 AV	54.00	-5.75	2.55 H	23	25.43	22.82

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	45.90 PK	74.00	-28.10	1.00 V	350	37.43	8.47
2	5150.00	33.02 AV	54.00	-20.98	1.00 V	350	24.55	8.47
3	*5240.00	106.98 PK			1.00 V	350	98.38	8.60
4	*5240.00	97.55 AV			1.00 V	350	88.95	8.60
5	5350.00	44.97 PK	74.00	-29.03	1.00 V	350	36.20	8.77
6	5350.00	34.25 AV	54.00	-19.75	1.00 V	350	25.48	8.77
7	#10480.00	60.27 PK	74.00	-13.73	2.30 V	251	39.93	20.34
8	#10480.00	48.55 AV	54.00	-5.45	2.30 V	251	28.21	20.34
9	15720.00	60.22 PK	74.00	-13.78	1.55 V	54	37.40	22.82
10	15720.00	47.26 AV	54.00	-6.74	1.55 V	54	24.44	22.82

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	62.39 PK	74.00	-11.61	2.09 H	273	53.92	8.47
2	5150.00	47.15 AV	54.00	-6.85	2.09 H	273	38.68	8.47
3	*5180.00	104.25 PK			2.09 H	273	95.73	8.52
4	*5180.00	93.68 AV			2.09 H	273	85.16	8.52
5	#10360.00	58.25 PK	74.00	-15.75	1.88 H	252	38.02	20.23
6	#10360.00	46.22 AV	54.00	-7.78	1.88 H	252	25.99	20.23
7	15540.00	62.00 PK	74.00	-12.00	1.66 H	15	39.31	22.69
8	15540.00	47.01 AV	54.00	-6.99	1.66 H	15	24.32	22.69
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	58.99 PK	74.00	-15.01	4.00 V	24	50.52	8.47
2	5150.00	42.09 AV	54.00	-11.91	4.00 V	24	33.62	8.47
3	*5180.00	103.22 PK			1.00 V	24	94.70	8.52
4	*5180.00	93.21 AV			1.00 V	24	84.69	8.52
5	#10360.00	59.12 PK	74.00	-14.88	1.00 V	250	38.89	20.23
6	#10360.00	48.02 AV	54.00	-5.98	1.00 V	250	27.79	20.23
7	15540.00	63.02 PK	74.00	-10.98	1.50 V	252	40.33	22.69
8	15540.00	48.15 AV	54.00	-5.85	1.50 V	252	25.46	22.69

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5149.90	59.44 PK	74.00	-14.56	1.80 H	261	50.97	8.47
2	5149.90	47.60 AV	54.00	-6.40	1.80 H	261	39.13	8.47
3	*5200.00	108.35 PK			1.57 H	304	100.01	8.34
4	*5200.00	99.08 AV			1.57 H	304	90.74	8.34
5	#10400	59.34 PK	74.00	-14.66	1.92 H	105	40.03	19.31
6	#10400	44.78 AV	54.00	-9.22	1.92 H	105	25.47	19.31
7	15600.00	60.02 PK	74.00	-13.98	2.44 H	200	38.43	21.59
8	15600.00	47.31 AV	54.00	-6.69	2.44 H	200	25.72	21.59
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	5149.90	57.19 PK	74.00	-16.81	1.50 V	200	48.72	8.47
2	5149.90	47.13 AV	54.00	-6.87	1.50 V	200	38.66	8.47
3	*5200.00	106.79 PK			1.00 V	216	98.45	8.34
4	*5200.00	97.35 AV			1.00 V	216	89.01	8.34
5	#10400.00	62.73 PK	74.00	-11.27	1.84 V	294	43.42	19.31
6	#10400.00	49.38 AV	54.00	-4.62	1.84 V	294	30.07	19.31
7	15600.00	65.14 PK	74.00	-8.86	2.50 V	185	43.55	21.59
8	15600.00	46.32 AV	54.00	-7.68	2.50 V	185	24.73	21.59

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	47.88 PK	74.00	-26.12	2.26 H	91	39.41	8.47
2	5150.00	35.26 AV	54.00	-18.74	2.26 H	91	26.79	8.47
3	*5240.00	110.20 PK			2.26 H	91	101.60	8.60
4	*5240.00	99.37 AV			2.26 H	91	90.77	8.60
5	5350.00	46.25 PK	74.00	-27.75	2.26 H	91	37.48	8.77
6	5350.00	35.36 AV	54.00	-18.64	2.26 H	91	26.59	8.77
7	#10480.00	58.99 PK	74.00	-15.01	1.00 H	120	38.65	20.34
8	#10480.00	48.51 AV	54.00	-5.49	1.00 H	120	28.17	20.34
9	15720.00	63.29 PK	74.00	-10.71	1.55 H	56	40.47	22.82
10	15720.00	50.11 AV	54.00	-3.89	1.55 H	56	27.29	22.82

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	43.56 PK	74.00	-30.44	1.00 V	250	35.09	8.47
2	5150.00	32.29 AV	54.00	-21.71	1.00 V	250	23.82	8.47
3	*5240.00	106.59 PK			1.00 V	250	97.99	8.60
4	*5240.00	95.69 AV			1.00 V	250	87.09	8.60
5	5350.00	42.78 PK	74.00	-31.22	1.00 V	250	34.01	8.77
6	5350.00	32.84 AV	54.00	-21.16	1.00 V	250	24.07	8.77
7	#10480.00	60.25 PK	74.00	-13.75	1.66 V	265	39.91	20.34
8	#10480.00	49.02 AV	54.00	-4.98	1.66 V	265	28.68	20.34
9	15720.00	64.25 PK	74.00	-9.75	1.89 V	50	41.43	22.82
10	15720.00	50.01 AV	54.00	-3.99	1.89 V	50	27.19	22.82

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	68.49 PK	74.00	-5.51	1.36 H	269	60.02	8.47
2	5150.00	51.84 AV	54.00	-2.16	1.36 H	269	43.37	8.47
3	*5190.00	105.88 PK			1.65 H	288	97.35	8.53
4	*5190.00	94.31 AV			1.65 H	288	85.78	8.53
5	#10380.00	56.88 PK	74.00	-17.12	1.58 H	45	36.63	20.25
6	#10380.00	44.25 AV	54.00	-9.75	1.58 H	45	24.00	20.25
7	15570.00	60.58 PK	74.00	-13.42	1.55 H	145	37.87	22.71
8	15570.00	46.74 AV	54.00	-7.26	1.55 H	145	24.03	22.71
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	57.58 PK	74.00	-16.42	2.44 V	0	49.11	8.47
2	5150.00	42.45 AV	54.00	-11.55	2.44 V	0	33.98	8.47
3	*5190.00	98.88 PK			2.44 V	0	90.35	8.53
4	*5190.00	88.49 AV			2.44 V	0	79.96	8.53
5	#10380.00	58.69 PK	74.00	-15.31	1.66 V	58	38.44	20.25
6	#10380.00	47.16 AV	54.00	-6.84	1.66 V	58	26.91	20.25
7	15570.00	63.26 PK	74.00	-10.74	3.10 V	250	40.55	22.71
8	15570.00	48.12 AV	54.00	-5.88	3.10 V	250	25.41	22.71

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 other emission levels were very low 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	59.25 PK	74.00	-14.75	1.78 H	278	50.78	8.47
2	5150.00	44.96 AV	54.00	-9.04	1.78 H	278	36.49	8.47
3	*5230.00	107.16 PK			1.78 H	278	98.57	8.59
4	*5230.00	96.88 AV			1.78 H	278	88.29	8.59
5	5350.00	50.26 PK	74.00	-23.74	1.78 H	278	41.49	8.77
6	5350.00	37.59 AV	54.00	-16.41	1.78 H	278	28.82	8.77
7	#10460.00	59.68 PK	74.00	-14.32	1.55 H	140	39.36	20.32
8	#10460.00	48.47 AV	54.00	-5.53	1.55 H	140	28.15	20.32
9	15690.00	64.54 PK	74.00	-9.46	1.58 H	210	41.74	22.80
10	15690.00	49.14 AV	54.00	-4.86	1.58 H	210	26.34	22.80
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	49.58 PK	74.00	-24.42	1.00 V	260	41.11	8.47
2	5150.00	35.95 AV	54.00	-18.05	1.00 V	260	27.48	8.47
3	*5230.00	102.25 PK			1.00 V	260	93.66	8.59
4	*5230.00	93.35 AV			1.00 V	260	84.76	8.59
5	5350.00	45.94 PK	74.00	-28.06	1.00 V	260	37.17	8.77
6	5350.00	35.39 AV	54.00	-18.61	1.00 V	260	26.62	8.77
7	#10460.00	58.15 PK	74.00	-15.85	1.55 V	46	37.83	20.32
8	#10460.00	47.36 AV	54.00	-6.64	1.55 V	46	27.04	20.32
9	15690.00	63.05 PK	74.00	-10.95	1.58 V	78	40.25	22.80
10	15690.00	48.99 AV	54.00	-5.01	1.58 V	78	26.19	22.80

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	65.19 PK	74.00	-8.81	1.62 H	286	56.72	8.47
2	5150.00	50.98 AV	54.00	-3.02	1.62 H	286	42.51	8.47
3	*5210.00	101.21 PK			1.62 H	286	92.66	8.55
4	*5210.00	90.19 AV			1.62 H	286	81.64	8.55
5	#10420.00	57.26 PK	74.00	-16.74	3.60 H	210	36.98	20.28
6	#10420.00	45.02 AV	54.00	-8.98	3.60 H	210	24.74	20.28
7	15630.00	59.58 PK	74.00	-14.42	2.10 H	257	36.83	22.75
8	15630.00	46.11 AV	54.00	-7.89	2.10 H	257	23.36	22.75
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	65.25 PK	74.00	-8.75	2.70 V	30	56.78	8.47
2	5150.00	51.56 AV	54.00	-2.44	2.70 V	30	43.09	8.47
3	*5210.00	97.95 PK			2.70 V	30	89.40	8.55
4	*5210.00	87.28 AV			2.70 V	30	78.73	8.55
5	#10420.00	57.59 PK	74.00	-16.41	1.52 V	250	37.31	20.28
6	#10420.00	46.25 AV	54.00	-7.75	1.52 V	250	25.97	20.28
7	15630.00	60.33 PK	74.00	-13.67	3.52 V	260	37.58	22.75
8	15630.00	46.25 AV	54.00	-7.75	3.52 V	260	23.50	22.75

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band 2 (5250-5350MHz):

ABOVE 1GHz DATA

802.11a

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

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	*5260.00	100.02 PK			1.23 H	41	91.39	8.63
2	*5260.00	91.39 AV			1.23 H	41	82.76	8.63
3	5350.00	59.77 PK	74.00	-14.23	1.30 H	41	51.00	8.77
4	5350.00	41.87 AV	54.00	-12.13	1.30 H	41	33.10	8.77
5	10520.00	59.30 PK	74.00	-14.70	1.18 H	39	39.18	20.12
6	10520.00	49.93 AV	54.00	-4.07	1.18 H	39	29.81	20.12
7	15780.00	58.75 PK	74.00	-15.25	1.15 H	44	36.01	22.74
8	15780.00	46.54 AV	54.00	-7.46	1.15 H	44	23.80	22.74
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	*5260.00	104.10 PK			1.30 V	138	95.47	8.63
2	*5260.00	97.86 AV			1.30 V	138	89.23	8.63
3	5350.00	60.44 PK	74.00	-13.56	1.04 V	131	51.67	8.77
4	5350.00	42.45 AV	54.00	-11.55	1.04 V	131	33.68	8.77
5	10520.00	62.80PK	74.00	-11.20	1.12 V	171	42.68	20.12
6	10520.00	51.90 AV	54.00	-2.10	1.12 V	171	31.78	20.12
7	15780.00	59.24 PK	74.00	-14.66	1.54 V	89	36.50	22.74
8	15780.00	46.51 AV	54.00	-7.49	1.54 V	89	23.77	22.74

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	*5300.00	101.38 PK			1.51 H	163	92.72	8.66
2	*5300.00	92.20 AV			1.51 H	163	83.54	8.66
3	5350.00	65.59 PK	74.00	-8.41	1.70 H	168	56.82	8.77
4	5350.00	48.84 AV	54.00	-5.16	1.70 H	168	40.07	8.77
5	10600.00	59.24 PK	74.00	-14.76	1.94 H	104	38.89	20.35
6	10600.00	50.77 AV	54.00	-3.23	1.94 H	104	30.42	20.35
7	15900.00	59.32 PK	74.00	-14.68	2.31 H	303	36.51	22.81
8	15900.00	46.36 AV	54.00	-7.64	2.31 H	303	23.55	22.81
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	*5300.00	104.70 PK			2.04 V	120	96.04	8.66
2	*5300.00	96.97 AV			2.04 V	120	88.31	8.66
3	5350.00	66.35 PK	74.00	-7.65	2.85 V	124	57.58	8.77
4	5350.00	48.71 AV	54.00	-5.29	2.85 V	124	39.94	8.77
5	10600.00	63.34 PK	74.00	-10.66	1.65 V	273	42.99	20.35
6	10600.00	52.73 AV	54.00	-1.27	1.65 V	273	32.38	20.35
7	15900.00	62.48 PK	74.00	-11.52	1.14 V	355	39.67	22.81
8	15900.00	47.25 AV	54.00	-6.75	1.14 V	355	24.44	22.81

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	*5320.00	104.59 PK			1.81 H	271	95.87	8.72
2	*5320.00	94.76 AV			1.81 H	271	86.04	8.72
3	5350.00	62.86 PK	74.00	-11.14	1.81 H	271	54.09	8.77
4	5350.00	47.88 AV	54.00	-6.12	1.81 H	271	39.11	8.77
5	10640.00	57.03 PK	74.00	-16.97	1.66 H	65	36.47	20.56
6	10640.00	45.99 AV	54.00	-8.01	1.66 H	65	25.43	20.56
7	15960.00	61.48 PK	74.00	-12.52	1.51 H	36	38.48	23.00
8	15960.00	47.62 AV	54.00	-6.38	1.51 H	36	24.62	23.00
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	*5320.00	105.75 PK			1.10 V	25	97.03	8.72
2	*5320.00	96.56 AV			1.10 V	25	87.84	8.72
3	5350.00	62.67 PK	74.00	-11.33	1.10 V	25	53.90	8.77
4	5350.00	48.59 AV	54.00	-5.41	1.10 V	25	39.82	8.77
5	10640.00	58.02 PK	74.00	-15.98	1.22 V	360	37.46	20.56
6	10640.00	46.25 AV	54.00	-7.75	1.22 V	360	25.69	20.56
7	15960.00	62.36 PK	74.00	-11.64	1.28 V	62	39.36	23.00
8	15960.00	48.59 AV	54.00	-5.41	1.28 V	62	25.59	23.00

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11n (20MHz)

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

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	*5260.00	100.20 PK			1.20 H	188	91.57	8.63
2	*5260.00	91.06 AV			1.20 H	188	82.43	8.63
3	5350.00	59.55 PK	74.00	-14.45	1.17 H	188	50.78	8.77
4	5350.00	42.18 AV	54.00	-11.82	1.17H	188	33.41	8.77
5	10520.00	59.46 PK	74.00	-14.54	1.90 H	264	39.34	20.12
6	10520.00	50.67 AV	54.00	-3.33	1.90 H	264	30.55	20.12
7	15780.00	58.82 PK	74.00	-15.18	2.10 H	350	36.08	22.74
8	15780.00	46.96 AV	54.00	-7.04	2.10 H	350	24.24	22.74
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	*5260.00	104.10 PK			1.30 V	138	95.47	8.63
2	*5260.00	97.86 AV			1.30 V	138	89.23	8.63
3	5350.00	60.39 PK	74.00	-13.61	1.04 V	131	51.62	8.77
4	5350.00	42.36 AV	54.00	-11.64	1.04 V	131	33.59	8.77
5	10520.00	62.96 PK	74.00	-11.04	1.12 V	171	42.84	20.12
6	10520.00	50.13 AV	54.00	-3.87	1.12 V	171	30.01	20.12
7	15780.00	58.72 PK	74.00	-15.28	1.54 V	89	35.98	22.74
8	15780.00	46.58 AV	54.00	-7.49	1.54 V	89	23.84	22.74

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	*5300.00	101.77 PK			1.50 H	355	93.11	8.66
2	*5300.00	92.20 AV			1.50 H	355	84.17	8.66
3	5350.00	65.79 PK	74.00	-8.21	1.50 H	304	57.02	8.77
4	5350.00	49.31 AV	54.00	-4.69	1.50 H	304	40.54	8.77
5	10600.00	58.97 PK	74.00	-15.03	1.90 H	218	38.62	20.35
6	10600.00	50.68 AV	54.00	-3.32	1.90 H	218	30.33	20.35
7	15900.00	59.28 PK	74.00	-14.72	1.00 H	249	36.47	22.81
8	15900.00	46.82 AV	54.00	-7.18	1.00 H	249	24.01	22.81
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	*5300.00	104.99PK			1.00 V	300	96.33	8.66
2	*5300.00	97.08 AV			1.00 V	300	88.42	8.66
3	5350.00	66.17 PK	74.00	-7.83	1.00 V	300	57.4	8.77
4	5350.00	47.51 AV	54.00	-6.49	1.00 V	300	38.74	8.77
5	10600.00	62.89 PK	74.00	-11.11	1.40 V	253	42.54	20.35
6	10600.00	52.86 AV	54.00	-1.14	1.40 V	253	32.51	20.35
7	15900.00	62.85 PK	74.00	-11.15	2.70 V	146	40.04	22.81
8	15900.00	47.74 AV	54.00	-6.26	2.70 V	146	24.93	22.81

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	*5320.00	108.02 PK			1.00 H	105	99.30	8.72
2	*5320.00	97.84 AV			1.00 H	105	89.12	8.72
3	5350.00	61.25 PK	74.00	-12.75	1.00 H	105	52.48	8.77
4	5350.00	48.99 AV	54.00	-5.01	1.00 H	105	40.22	8.77
5	10640.00	59.00 PK	74.00	15.00	1.55 H	41	38.44	20.56
6	10640.00	46.25 AV	54.00	-7.75	1.55 H	41	25.69	20.56
7	15960.00	62.02 PK	74.00	-11.98	3.60 H	250	39.02	23.00
8	15960.00	48.29 AV	54.00	-5.71	3.60 H	250	25.29	23.00
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	*5320.00	106.77 PK			2.83 V	315	98.05	8.72
2	*5320.00	95.68 AV			2.83 V	315	86.96	8.72
3	5350.00	60.29 PK	74.00	-13.71	2.83 V	315	51.52	8.77
4	5350.00	46.99 AV	54.00	-7.01	2.83 V	315	38.22	8.77
5	10640.00	58.15 PK	74.00	-15.85	1.66 V	55	37.59	20.56
6	10640.00	47.25 AV	54.00	-6.75	1.66 V	55	26.69	20.56
7	15960.00	62.59 PK	74.00	-11.41	1.55 V	65	39.59	23.00
8	15960.00	48.33 AV	54.00	-5.67	1.55 V	65	25.33	23.00

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

802.11n (40MHz)

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

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	*5270.00	103.34 PK			1.42 H	172	94.66	8.68
2	*5270.00	91.40 AV			1.42 H	172	82.72	8.68
3	5350.00	58.98 PK	74.00	-15.02	1.42 H	172	50.21	8.77
4	5350.00	46.84 AV	54.00	-7.16	1.42 H	172	38.07	8.77
5	10540.00	58.84 PK	74.00	-15.16	2.10 H	104	38.46	20.38
6	10540.00	47.15 AV	54.00	-6.85	2.10 H	104	26.77	20.38
7	15810.00	56.42 PK	74.00	-17.58	1.00 H	342	33.59	22.83
8	15810.00	46.52 AV	54.00	-7.48	1.00 H	342	23.69	22.83
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	*5270.00	99.60 PK			1.50 V	14	90.92	8.68
2	*5270.00	89.75 AV			1.50 V	14	81.07	8.68
3	5350.00	57.10 PK	74.00	-16.90	1.50 V	23	48.33	8.77
4	5350.00	45.97 AV	54.00	-8.03	1.50 V	23	37.20	8.77
5	10540.00	60.20 PK	74.00	-13.80	1.90 V	243	39.82	20.38
6	10540.00	46.79 AV	54.00	-7.21	1.90 V	243	26.41	20.38
7	15810.00	54.90 PK	74.00	-19.10	1.60 V	5	32.07	22.83
8	15810.00	46.57 AV	54.00	-7.43	1.60 V	5	23.74	22.83

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

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	*5310.00	104.34 PK			1.31 H	279	95.63	8.71
2	*5310.00	92.36 AV			1.31 H	279	83.65	8.71
3	5350.00	66.28 PK	74.00	-7.72	1.31 H	279	57.51	8.77
4	5350.00	50.27 AV	54.00	-3.73	1.31 H	279	41.50	8.77
5	10620.00	58.59 PK	74.00	-15.41	1.66 H	350	38.06	20.53
6	10620.00	46.88 AV	54.00	-7.12	1.66 H	350	26.35	20.53
7	15930.00	60.29 PK	74.00	-13.71	1.77 H	64	37.31	22.98
8	15930.00	46.56 AV	54.00	-7.44	1.77 H	64	23.58	22.98
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	*5310.00	97.21 PK			2.46 V	0	88.50	8.71
2	*5310.00	86.19 AV			2.46 V	0	77.48	8.71
3	5350.00	49.69 PK	74.00	-24.31	1.55 V	64	40.92	8.77
4	5350.00	37.90 AV	54.00	-16.10	1.55 V	64	29.13	8.77
5	10620.00	57.58 PK	74.00	-16.42	1.59 V	82	37.05	20.53
6	10620.00	45.02 AV	54.00	-8.98	1.59 V	82	24.49	20.53
7	15930.00	58.24 PK	74.00	-15.76	1.00 V	94	35.26	22.98
8	15930.00	47.15 AV	54.00	-6.85	1.00 V	94	24.17	22.98

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": 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								
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	*5290.00	99.25 PK			1.00 H	277	90.56	8.69
2	*5290.00	88.87 AV			1.00 H	277	80.18	8.69
3	5350.00	61.26 PK	74.00	-12.74	1.00 H	277	52.49	8.77
4	5350.00	48.98 AV	54.00	-5.02	1.00 H	277	40.21	8.77
5	#10580.00	58.25 PK	74.00	-15.75	1.20 H	356	37.78	20.47
6	#10580.00	46.11 AV	54.00	-7.89	1.20 H	356	25.64	20.47
7	15870.00	62.69 PK	74.00	-11.31	3.20 H	55	39.75	22.94
8	15870.00	47.88 AV	54.00	-6.12	3.20 H	55	24.94	22.94
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	*5290.00	95.15 PK			1.00 V	251	86.46	8.69
2	*5290.00	82.98 AV			1.00 V	251	74.29	8.69
3	5350.00	53.02 PK	74.00	-20.98	1.00 V	251	44.25	8.77
4	5350.00	41.26 AV	54.00	-12.74	1.00 V	251	32.49	8.77
5	#10580.00	57.26 PK	74.00	-16.74	1.66 V	55	36.79	20.47
6	#10580.00	44.59 AV	54.00	-9.41	1.66 V	55	24.12	20.47
7	15870.00	61.02 PK	74.00	-12.98	3.17 V	250	38.08	22.94
8	15870.00	46.25 AV	54.00	-7.75	3.17 V	250	23.31	22.94

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band 3 (5470-5725MHz):

ABOVE 1GHz DATA

802.11a

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

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	5460.00	59.94 PK	74.00	-14.06	2.37 H	261	51.00	8.94
2	5460.00	43.51 AV	54.00	-10.49	2.37 H	261	34.57	8.94
3	*5500.00	105.82 PK			1.18 H	239	96.82	9.00
4	*5500.00	96.73 AV			1.18 H	239	87.73	9.00
5	11000.00	60.03 PK	74.00	-13.97	3.09 H	211	38.93	21.10
6	11000.00	48.12 AV	54.00	-5.88	3.09 H	211	27.02	21.10
7	#16500.00	61.13 PK	74.00	-12.87	1.96 H	54	37.46	23.67
8	#16500.00	46.74 AV	54.00	-7.26	1.96 H	54	23.07	23.67
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	5460.00	61.13 PK	74.00	-12.87	1.22 V	46	52.19	8.94
2	5460.00	42.17 AV	54.00	-11.83	1.22 V	46	33.23	8.94
3	*5500.00	106.65 PK			2.07 V	43	97.65	9.00
4	*5500.00	96.74 AV			2.07 V	43	87.74	9.00
5	11000.00	63.40 PK	74.00	-10.60	1.77 V	209	42.30	21.10
6	11000.00	50.61 AV	54.00	-3.39	1.77 V	209	29.51	21.10
7	#16500.00	61.17 PK	74.00	-12.83	1.04 V	303	37.50	23.67
8	#16500.00	49.03 AV	54.00	-4.97	1.04 V	303	25.36	23.67

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 other emission levels were very low 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 112	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	50.50 PK	74.00	-23.50	1.55 H	291	41.56	8.94
2	5460.00	37.94 AV	54.00	-16.06	1.55 H	291	29.00	8.94
3	*5560.00	104.50 PK			1.55 H	291	95.17	9.33
4	*5560.00	94.31 AV			1.55 H	291	84.98	9.33
5	#5725.00	51.88 PK	68.20	-16.32	1.55 H	291	41.68	10.20
6	11120.00	61.22 PK	74.00	-12.78	1.33 H	260	40.56	20.66
7	11120.00	50.12 AV	54.00	-3.88	1.33 H	260	29.46	20.66
8	#16680.00	61.88 PK	74.00	-12.12	1.50 H	210	37.50	24.38
9	#16680.00	49.36 AV	54.00	-4.64	1.50 H	210	24.98	24.38
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	5460.00	50.25 PK	74.00	-23.75	1.70 V	35	41.31	8.94
2	5460.00	37.59 AV	54.00	-16.41	1.70 V	35	28.65	8.94
3	*5560.00	105.78 PK			1.70 V	35	96.45	9.33
4	*5560.00	95.63 AV			1.70 V	35	86.30	9.33
5	#5725.00	51.72 PK	68.20	-16.48	1.70 V	35	41.52	10.20
6	11120.00	59.59 PK	74.00	-14.41	1.55 V	260	38.93	20.66
7	11120.00	49.11 AV	54.00	-4.89	1.55 V	260	28.45	20.66
8	#16680.00	60.23 PK	74.00	-13.77	3.20 V	256	35.85	24.38
9	#16680.00	49.36 AV	54.00	-4.64	3.20 V	256	24.98	24.38

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 other emission levels were very low 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 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	101.41 PK			1.22 H	113	91.34	10.07
2	*5700.00	92.57 AV			1.22 H	113	82.50	10.07
3	#5725.00	63.48 PK	68.2	-4.72	1.22 H	113	53.28	10.20
4	11400.00	59.22 PK	74.00	-14.78	1.33 H	325	39.60	19.62
5	11400.00	48.65 AV	54.00	-5.35	1.33 H	325	29.03	19.62
6	#17100.00	60.01 PK	74.00	-13.99	1.33 H	65	34.31	25.70
7	#17100.00	46.89 AV	54.00	-7.11	1.33 H	65	21.19	25.70
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	*5700.00	106.42 PK			1.20 V	63	96.35	10.07
2	*5700.00	96.71 AV			1.20 V	63	86.64	10.07
3	#5725.00	67.40 PK	68.20	-0.80	1.20 V	63	57.20	10.20
4	11400.00	59.55 PK	74.00	-14.45	2.44 V	63	39.93	19.62
5	11400.00	49.66 AV	54.00	-4.34	2.44 V	63	30.04	19.62
6	#17100.00	61.02 PK	74.00	-12.98	1.55 V	166	35.32	25.70
7	#17100.00	47.11 AV	54.00	-6.89	1.55 V	166	21.41	25.70

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 other emission levels were very low 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 100	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	5460.00	53.46 PK	74.00	-20.54	1.94 H	264	44.52	8.94
2	5460.00	38.44 AV	54.00	-15.56	1.94 H	264	29.50	8.94
3	*5500.00	104.39 PK			1.94 H	264	95.39	9.00
4	*5500.00	93.46 AV			1.94 H	264	84.46	9.00
5	11000.00	60.59 PK	74.00	-13.41	2.55 H	39	39.49	21.10
6	11000.00	49.36 AV	54.00	-4.64	2.55 H	39	28.26	21.10
7	#16500.00	61.26 PK	74.00	-12.74	1.55 H	241	37.59	23.67
8	#16500.00	46.22 AV	54.00	-7.78	1.55 H	241	22.55	23.67
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	5460.00	53.22 PK	74.00	-20.78	1.22 V	43	44.28	8.94
2	5460.00	33.57 AV	54.00	-20.43	1.22 V	43	24.63	8.94
3	*5500.00	104.86 PK			1.22 V	43	95.86	9.00
4	*5500.00	93.45 AV			1.22 V	43	84.45	9.00
5	11000.00	58.89 PK	74.00	-15.11	1.33 V	260	37.79	21.10
6	11000.00	47.66 AV	54.00	-6.34	1.33 V	260	26.56	21.10
7	#16500.00	60.89 PK	74.00	-13.11	3.20 V	225	37.22	23.67
8	#16500.00	47.12 AV	54.00	-6.88	3.20 V	225	23.45	23.67

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 other emission levels were very low 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 112	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	49.69 PK	74.00	-24.31	1.27 H	301	40.75	8.94
2	5460.00	36.45 AV	54.00	-17.55	1.27 H	301	27.51	8.94
3	*5560.00	111.01 PK			1.27 H	301	101.68	9.33
4	*5560.00	97.95 AV			1.27 H	301	88.62	9.33
5	#5725.00	48.22 PK	68.20	-19.98	1.27 H	301	38.02	10.20
6	11120.00	61.25 PK	74.00	-12.75	1.66 H	65	40.59	20.66
7	11120.00	50.36 AV	54.00	-3.64	1.66 H	65	29.70	20.66
8	#16680.00	62.36 PK	74.00	-11.64	3.50 H	269	37.98	24.38
9	#16680.00	48.99 AV	54.00	-5.01	3.50 H	269	24.61	24.38
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	5460.00	45.89 PK	74.00	-28.11	3.96 V	31	36.95	8.94
2	5460.00	33.56 AV	54.00	-20.44	3.96 V	31	24.62	8.94
3	*5560.00	107.35 PK			3.96 V	31	98.02	9.33
4	*5560.00	67.02 AV			3.96 V	31	57.69	9.33
5	#5725.00	48.95 PK	68.20	-19.25	3.96 V	31	38.75	10.20
6	11120.00	61.25 PK	74.00	-12.75	2.55 V	251	40.59	20.66
7	11120.00	50.12 AV	54.00	-3.88	2.55 V	251	29.46	20.66
8	#16680.00	62.25 PK	74.00	-11.75	3.25 V	252	37.87	24.38
9	#16680.00	48.36 AV	54.00	-5.64	3.25 V	252	23.98	24.38

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 other emission levels were very low 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 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	105.81 PK			1.55 H	277	95.74	10.07
2	*5700.00	94.33 AV			1.55 H	277	84.26	10.07
3	#5725.00	64.60 PK	68.20	-3.60	1.55 H	277	54.40	10.20
4	11400.00	58.89 PK	74.00	-15.11	1.66 H	65	39.27	19.62
5	11400.00	47.99 AV	54.00	-6.01	1.66 H	65	28.37	19.62
6	#17100.00	59.66 PK	74.00	-14.34	1.30 H	32	33.96	25.70
7	#17100.00	45.21 AV	54.00	-8.79	1.30 H	32	19.51	25.70
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	*5700.00	103.87 PK			2.60 V	47	93.80	10.07
2	*5700.00	92.12 AV			2.60 V	47	82.05	10.07
3	#5725.00	55.29 PK	68.20	-12.91	2.60 V	47	45.09	10.20
4	11400.00	58.88 PK	74.00	-15.12	3.66 V	220	39.26	19.62
5	11400.00	47.12 AV	54.00	-6.88	3.66 V	220	27.50	19.62
6	#17100.00	59.26 PK	74.00	-14.74	3.20 V	327	33.56	25.70
7	#17100.00	45.36 AV	54.00	-8.64	3.20 V	327	19.66	25.70

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 other emission levels were very low 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 102	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	62.59 PK	74.00	-11.41	1.56 H	302	53.65	8.94
2	5460.00	43.55 AV	54.00	-10.45	1.56 H	302	34.61	8.94
3	*5510.00	103.85 PK			1.66 H	302	94.80	9.05
4	*5510.00	93.28 AV			1.66 H	302	84.23	9.05
5	11020.00	60.55 PK	74.00	-13.45	1.66 H	251	39.52	21.03
6	11020.00	49.63 AV	54.00	-4.37	1.66 H	251	28.60	21.03
7	#16530.00	62.33 PK	74.00	-11.67	1.66 H	318	38.54	23.79
8	#16530.00	48.25 AV	54.00	-5.75	1.66 H	318	24.46	23.79
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	5460.00	59.26 PK	74.00	-14.74	1.55 V	43	50.32	8.94
2	5460.00	44.78 AV	54.00	-9.22	1.55 V	43	35.84	8.94
3	*5510.00	100.49 PK			3.20 V	43	91.44	9.05
4	*5510.00	91.06 AV			3.20 V	43	82.01	9.05
5	11020.00	61.03 PK	74.00	-12.97	2.54 V	266	40.00	21.03
6	11020.00	49.66 AV	54.00	-4.34	2.54 V	266	28.63	21.03
7	#16530.00	62.31 PK	74.00	-11.69	3.20 V	155	38.52	23.79
8	#16530.00	47.62 AV	54.00	-6.38	3.20 V	155	23.83	23.79

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 other emission levels were very low 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 110	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5550.00	107.11 PK			1.29 H	301	97.84	9.27
2	*5550.00	95.64 AV			1.29 H	301	86.37	9.27
3	#5725.00	49.33 PK	68.20	-18.87	1.29 H	301	39.13	10.20
4	11100.00	61.25 PK	74.00	-12.75	1.55 H	49	40.51	20.74
5	11100.00	49.22 AV	54.00	-4.78	1.55 H	49	28.48	20.74
6	#16650.00	62.55 PK	74.00	-11.45	3.20 H	258	38.29	24.26
7	#16650.00	47.89 AV	54.00	-6.11	3.20 H	258	23.63	24.26
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	*5550.00	103.12 PK			1.29 V	78	93.85	9.27
2	*5550.00	92.24 AV			1.29 V	78	82.97	9.27
3	#5725.00	58.99 PK	68.20	-9.21	1.29 V	78	48.79	10.20
4	11100.00	61.22 PK	74.00	-12.78	2.33 V	250	40.48	20.74
5	11100.00	50.51 AV	54.00	-3.49	2.33 V	250	29.77	20.74
6	#16650.00	61.25 PK	74.00	-12.75	3.11 V	260	36.99	24.26
7	#16650.00	48.36 AV	54.00	-5.64	3.11 V	260	24.10	24.26

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 other emission levels were very low 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 134	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	107.88 PK			1.22 H	276	97.97	9.91
2	*5670.00	95.55 AV			1.22 H	276	85.64	9.91
3	#5725.00	67.50 PK	68.20	-0.70	1.22 H	276	57.30	10.20
4	11340.00	60.22 PK	74.00	-13.78	1.66 H	65	40.37	19.85
5	11340.00	49.89 AV	54.00	-4.11	1.66 H	65	30.04	19.85
6	#17010.00	61.55 PK	74.00	-12.45	2.22 H	150	35.90	25.65
7	#17010.00	47.59 AV	54.00	-6.41	2.22 H	150	21.94	25.65
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	*5670.00	104.55 PK			2.97 V	53	94.64	9.91
2	*5670.00	92.66 AV			2.97 V	53	82.75	9.91
3	#5725.00	60.24 PK	68.20	-7.96	2.97 V	53	50.04	10.20
4	11340.00	60.02 PK	74.00	-13.98	1.00 V	255	40.17	19.85
5	11340.00	48.66 AV	54.00	-5.34	1.00 V	255	28.81	19.85
6	#17010.00	60.22 PK	74.00	-13.78	1.22 V	251	34.57	25.65
7	#17010.00	49.41 AV	54.00	-4.59	1.22 V	251	23.76	25.65

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 other emission levels were very low 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 106	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	72.96 PK	74.00	-1.04	1.44 H	301	64.02	8.94
2	5460.00	52.01 AV	54.00	-1.99	1.44 H	301	43.07	8.94
3	*5530.00	103.88 AV			1.44 H	301	94.72	9.16
4	*5530.00	92.02 PK			1.44 H	301	82.86	9.16
5	#5725.00	51.22 PK	68.20	-16.98	1.44 H	301	41.02	10.20
6	11060.00	61.25 PK	74.00	-12.75	1.33 H	360	40.37	20.88
7	11060.00	49.99 AV	54.00	-4.01	1.33 H	360	29.11	20.88
8	#16590.00	62.02 PK	74.00	-11.98	2.56 H	68	37.99	24.03
9	#16590.00	48.29 AV	54.00	-5.71	2.56 H	68	24.26	24.03
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	5460.00	66.45 PK	74.00	-7.55	2.56 V	26	57.51	8.94
2	5460.00	49.15 AV	54.00	-4.85	2.56 V	26	40.21	8.94
3	*5530.00	101.22 PK			2.56 V	26	92.06	9.16
4	*5530.00	90.17 AV			2.56 V	26	81.01	9.16
5	#5725.00	44.73 PK	68.20	-23.47	2.56 V	26	34.53	10.20
6	11060.00	61.02 PK	74.00	-12.98	1.22 V	50	40.14	20.88
7	11060.00	50.25 AV	54.00	-3.75	1.22 V	50	29.37	20.88
8	#16590.00	62.01 PK	74.00	-11.99	2.66 V	310	37.98	24.03
9	#16590.00	48.25 AV	54.00	-5.75	2.66 V	310	24.22	24.03

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band 4 (5725-5850MHz):

ABOVE 1GHz DATA

802.11a

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

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	45.39 PK	68.2	-22.81	2.05 H	249	35.59	9.80
2	#5700.00	61.44 PK	105.2	-43.76	2.05 H	249	51.37	10.07
3	#5720.00	69.72 PK	110.8	-41.08	2.05 H	249	59.54	10.18
4	#5725.00	78.57 PK	122.2	-43.63	2.05 H	249	68.37	10.20
5	*5745.00	107.65 PK			2.47 H	248	97.34	10.31
6	*5745.00	98.21 AV			2.47 H	248	87.90	10.31
7	11490.00	57.22 PK	74.0	-16.78	2.26 H	108	37.92	19.30
8	11490.00	45.42 AV	54.0	-8.58	2.26 H	108	26.12	19.30
9	#17235.00	63.44 PK	74.0	-10.56	2.03 H	306	37.67	25.77
10	#17235.00	49.86 AV	54.0	-4.14	2.03 H	306	24.09	25.77
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	47.65 PK	68.2	-20.55	1.00 V	24	37.85	9.80
2	#5700.00	63.47 PK	105.2	-41.73	1.00 V	24	53.40	10.07
3	#5720.00	70.75 PK	110.8	-40.05	1.00 V	24	60.57	10.18
4	#5725.00	78.57 PK	122.2	-43.63	1.00 V	24	68.37	10.20
5	*5745.00	108.23 PK			3.20 V	24	97.92	10.31
6	*5745.00	100.18 AV			3.20 V	24	89.87	10.31
7	11490.00	56.52 PK	74.0	-17.48	1.51 V	96	37.22	19.30
8	11490.00	47.72 AV	54.0	-6.28	1.51 V	96	28.42	19.30
9	#17235.00	63.93 PK	74.0	-10.07	1.80 V	252	38.16	25.77
10	#17235.00	50.26 AV	54.0	-3.74	1.80 V	252	24.49	25.77

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	41.74 PK	68.2	-26.46	3.96 H	67	31.94	9.80
2	#5700.00	48.58 PK	105.2	-56.62	3.96 H	67	38.51	10.07
3	#5720.00	55.59 PK	110.8	-55.21	3.96 H	67	45.41	10.18
4	#5725.00	57.30 PK	122.2	-64.90	3.96 H	67	47.10	10.20
5	*5785.00	104.61 PK			1.58 H	67	94.08	10.53
6	*5785.00	95.09 AV			1.58 H	67	84.56	10.53
7	#5850.00	53.74 PK	122.2	-68.46	3.96 H	67	42.86	10.88
8	#5855.00	55.99 PK	110.8	-54.81	3.96 H	67	45.09	10.90
9	#5875.00	47.79 PK	105.2	-57.41	3.96 H	67	36.78	11.01
10	#5925.00	45.05 PK	68.2	-23.15	3.96 H	67	33.77	11.28
11	11570.00	65.74 PK	74.0	-8.26	1.99 H	254	46.49	19.25
12	11570.00	45.21 AV	54.0	-8.79	1.99 H	254	25.96	19.25
13	#17355.00	64.89 PK	74.0	-9.11	1.99 H	98	39.05	25.84
14	#17355.00	43.78 AV	54.0	-10.22	1.99 H	98	17.94	25.84
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	46.75 PK	68.2	-21.45	1.00 V	48	36.95	9.80
2	#5700.00	52.73 PK	105.2	-52.47	1.00 V	48	42.66	10.07
3	#5720.00	58.60 PK	110.8	-52.20	1.90 V	48	48.42	10.18
4	#5725.00	59.58 PK	122.2	-62.62	2.72 V	48	49.38	10.20
5	*5785.00	107.99 PK			1.50 V	48	97.46	10.53
6	*5785.00	98.55 AV			1.50 V	48	88.02	10.53
7	#5850.00	57.71 PK	122.2	-64.49	1.00 V	48	46.83	10.88
8	#5855.00	59.19 PK	110.8	-51.61	1.00 V	48	48.29	10.90
9	#5875.00	52.99 PK	105.2	-52.21	1.00 V	48	41.98	11.01
10	#5925.00	48.94 PK	68.2	-19.26	1.00 V	48	37.66	11.28
11	11570.00	64.48 PK	74.0	-9.52	1.56 V	24	45.23	19.25
12	11570.00	43.26 AV	54.0	-10.74	1.56 V	24	24.01	19.25
13	#17355.00	63.56 PK	74.0	-10.44	1.88 V	65	37.72	25.84
14	#17355.00	43.00 AV	54.0	-11.00	1.88 V	65	17.16	25.84

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 other emission levels were very low 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 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	106.67 PK			1.77 H	278	95.92	10.75
2	*5825.00	96.57 AV			1.77 H	278	85.82	10.75
3	#5850.00	71.22 PK	122.2	-50.98	3.96 H	278	60.34	10.88
4	#5855.00	67.43 PK	110.8	-43.37	3.96 H	278	56.53	10.90
5	#5875.00	55.34 PK	105.2	-49.86	3.96 H	278	44.33	11.01
6	#5925.00	48.53 PK	68.2	-19.67	3.96 H	278	37.25	11.28
7	11650.00	64.76 PK	74.0	-9.24	1.88 H	65	45.52	19.24
8	11650.00	43.95 AV	54.0	-10.05	1.88 H	65	24.71	19.24
9	#17475.00	65.48 PK	74.0	-8.52	1.55 H	144	39.58	25.90
10	#17475.00	44.59 AV	54.0	-9.41	1.55 H	144	18.69	25.90
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	108.74 PK			1.99 V	28	97.99	10.75
2	*5825.00	98.96 AV			1.99 V	28	88.21	10.75
3	#5850.00	72.07 PK	122.2	-40.13	3.96 V	28	61.19	10.88
4	#5855.00	69.00 PK	110.8	-31.80	3.96 V	28	58.10	10.90
5	#5875.00	67.98 PK	105.2	-37.22	3.96 V	28	56.97	11.01
6	#5925.00	48.69 PK	68.2	-19.51	3.96 V	28	37.41	11.28
7	11650.00	64.79 PK	74.0	-9.21	1.88 V	210	45.55	19.24
8	11650.00	43.99 AV	54.0	-10.01	1.88 V	210	24.75	19.24
9	#17475.00	65.59 PK	74.0	-8.41	1.99 V	98	39.69	25.90
10	#17475.00	45.88 AV	54.0	-8.12	1.99 V	98	19.98	25.90

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 other emission levels were very low 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 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	43.28 PK	68.2	-24.92	3.96 H	247	33.48	9.80
2	#5700.00	59.87 PK	105.2	-45.33	3.96 H	247	49.80	10.07
3	#5720.00	66.05 PK	110.8	-44.75	3.96 H	247	55.87	10.18
4	#5725.00	74.72 PK	122.2	-47.48	3.96 H	247	64.52	10.20
5	*5745.00	105.81 PK			2.48 H	344	95.50	10.31
6	*5745.00	95.92 AV			2.48 H	344	85.61	10.31
7	11490.00	55.38 PK	74.0	-18.62	1.88 H	241	36.08	19.30
8	11490.00	43.93 AV	54.0	-10.07	1.88 H	241	24.63	19.30
9	#17235.00	62.39 PK	74.0	-11.61	2.54 H	19	36.62	25.77
10	#17235.00	49.67 AV	54.0	-4.33	2.54 H	19	23.90	25.77
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	36.90 PK	68.2	-31.30	3.96 V	25	27.10	9.80
2	#5700.00	46.99 PK	105.2	-58.21	3.96 V	25	36.92	10.07
3	#5720.00	63.11 PK	110.8	-47.69	3.96 V	25	52.93	10.18
4	#5725.00	75.63 PK	122.2	-46.57	3.96 V	25	65.43	10.20
5	*5745.00	105.88 PK			1.99 V	24	95.57	10.31
6	*5745.00	96.69 AV			1.99 V	24	86.38	10.31
7	11490.00	55.85 PK	74.0	-18.15	1.66 V	103	36.55	19.30
8	11490.00	44.41 AV	54.0	-9.59	1.66 V	103	25.11	19.30
9	#17235.00	62.89 PK	74.0	-11.11	1.84 V	95	37.12	25.77
10	#17235.00	49.50 AV	54.0	-4.50	1.84 V	95	23.73	25.77

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	42.97 PK	68.2	-25.23	3.96 H	279	33.17	9.80
2	#5700.00	51.10 PK	105.2	-54.10	3.96 H	279	41.03	10.07
3	#5720.00	57.92 PK	110.8	-52.88	3.96 H	279	47.74	10.18
4	#5725.00	59.56 PK	122.2	-62.64	3.96 H	279	49.36	10.20
5	*5785.00	111.24 PK			1.94 H	279	100.71	10.53
6	*5785.00	102.92 AV			1.94 H	279	92.39	10.53
7	#5850.00	56.09 PK	122.2	-66.11	3.96 H	279	45.21	10.88
8	#5855.00	53.74 PK	110.8	-57.06	3.96 H	279	42.84	10.90
9	#5875.00	47.92 PK	105.2	-57.28	3.96 H	279	36.91	11.01
10	#5925.00	45.61 PK	68.2	-22.59	3.96 H	279	34.33	11.28
11	11570.00	54.48 PK	74.0	-19.52	1.33 H	64	35.23	19.25
12	11570.00	43.76 AV	54.0	-10.24	1.33 H	64	24.51	19.25
13	#17355.00	62.03 PK	74.0	-11.97	1.33 H	150	36.19	25.84
14	#17355.00	49.04 AV	54.0	-4.96	1.33 H	150	23.20	25.84

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	42.56 PK	68.2	-25.64	3.96 V	59	32.76	9.80
2	#5700.00	47.02 PK	105.2	-58.18	3.96 V	59	36.95	10.07
3	#5720.00	53.24 PK	110.8	-57.56	3.96 V	59	43.06	10.18
4	#5725.00	55.16 PK	122.2	-67.04	3.96 V	59	44.96	10.20
5	*5785.00	107.59 PK			1.66 V	58	97.06	10.53
6	*5785.00	97.54 AV			1.66 V	58	87.01	10.53
7	#5850.00	54.52 PK	122.2	-67.68	3.96 V	59	43.64	10.88
8	#5855.00	51.30 PK	110.8	-59.50	3.96 V	59	40.40	10.90
9	#5875.00	47.13 PK	105.2	-58.07	3.96 V	59	36.12	11.01
10	#5925.00	44.95 PK	68.2	-23.25	3.96 V	59	33.67	11.28
11	11570.00	55.48 PK	74.0	-18.52	2.55 V	144	36.23	19.25
12	11570.00	44.66 AV	54.0	-9.34	2.55 V	144	25.41	19.25
13	#17355.00	62.96 PK	74.0	-11.04	2.10 V	31	37.12	25.84
14	#17355.00	49.77 AV	54.0	-4.23	2.10 V	31	23.93	25.84

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 other emission levels were very low 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 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	111.31 PK			1.55 H	275	100.56	10.75
2	*5825.00	100.15 AV			1.55 H	275	89.40	10.75
3	#5850.00	62.13 PK	122.2	-60.07	3.96 H	273	51.25	10.88
4	#5855.00	55.15 PK	110.8	-55.65	3.96 H	273	44.25	10.90
5	#5875.00	43.98 PK	105.2	-61.22	3.96 H	273	32.97	11.01
6	#5925.00	39.20 PK	68.2	-29.00	3.96 H	273	27.92	11.28
7	11650.00	54.77 PK	74.0	-19.23	1.88 H	321	35.53	19.24
8	11650.00	44.39 AV	54.0	-9.61	1.88 H	321	25.15	19.24
9	#17475.00	63.03 PK	74.0	-10.97	1.88 H	145	37.13	25.90
10	#17475.00	49.87 AV	54.0	-4.13	1.88 H	145	23.97	25.90
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	109.54 PK			1.77 V	35	98.79	10.75
2	*5825.00	99.85 AV			1.77 V	35	89.10	10.75
3	#5850.00	70.31 PK	122.2	-51.89	3.96 V	36	59.43	10.88
4	#5855.00	67.07 PK	110.8	-43.73	3.96 V	36	56.17	10.90
5	#5875.00	56.31 PK	105.2	-48.89	3.96 V	36	45.30	11.01
6	#5925.00	45.46 PK	68.2	-22.74	3.96 V	36	34.18	11.28
7	11650.00	55.78 PK	74.0	-18.22	1.66 V	64	36.54	19.24
8	11650.00	44.96 AV	54.0	-9.04	1.66 V	64	25.72	19.24
9	#17475.00	63.11 PK	74.0	-10.89	1.77 V	54	37.21	25.90
10	#17475.00	49.66 AV	54.0	-4.34	1.77 V	54	23.76	25.90

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 other emission levels were very low 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	56.62 PK	68.2	-11.58	3.96 H	246	46.82	9.80
2	#5700.00	66.06 PK	105.2	-39.14	3.96 H	246	55.99	10.07
3	#5720.00	65.94 PK	110.8	-44.86	3.96 H	246	65.76	10.18
4	#5725.00	79.14 PK	122.2	-43.06	3.96 H	246	68.94	10.20
5	*5755.00	104.96 PK			1.00 H	246	94.59	10.37
6	*5755.00	94.89 AV			1.00 H	246	84.52	10.37
7	11510.00	55.85 PK	74.0	-18.15	1.23 H	233	36.59	19.26
8	11510.00	43.95 AV	54.0	-10.05	1.23 H	233	24.69	19.26
9	#17265.00	61.96 PK	74.0	-12.04	1.66 H	344	36.17	25.79
10	#17265.00	49.88 AV	54.0	-4.12	1.66 H	344	24.09	25.79
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	47.26 PK	68.2	-20.94	3.96 V	29	37.46	9.80
2	#5700.00	66.40 PK	105.2	-38.80	3.96 V	29	56.33	10.07
3	#5720.00	73.13 PK	110.8	-37.67	3.96 V	29	62.95	10.18
4	#5725.00	76.89 PK	122.2	-45.31	3.96 V	29	66.69	10.20
5	*5755.00	105.93 PK			2.15 V	26	95.56	10.37
6	*5755.00	95.55 AV			2.15 V	26	85.18	10.37
7	11510.00	56.14 PK	74.0	-17.86	2.45 V	321	36.88	19.26
8	11510.00	45.22 AV	54.0	-8.78	2.45 V	321	25.96	19.26
9	#17265.00	62.89 PK	74.0	-11.11	2.41 V	60	37.10	25.79
10	#17265.00	49.78 AV	54.0	-4.22	2.41 V	60	23.99	25.79

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 other emission levels were very low 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 159	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	103.36 PK			3.20 H	277	92.78	10.58
2	*5795.00	93.97 AV			3.20 H	277	83.39	10.58
3	#5850.00	71.05 PK	122.2	-51.15	3.96 H	277	60.17	10.88
4	#5855.00	67.04 PK	110.8	-43.76	3.96 H	277	56.14	10.90
5	#5875.00	60.30 PK	105.2	-44.90	3.96 H	277	49.29	11.01
6	#5925.00	48.33 PK	68.2	-19.87	3.96 H	277	37.05	11.28
7	11590.00	55.41 PK	74.0	-18.59	1.55 H	320	36.16	19.25
8	11590.00	43.54 AV	54.0	-10.46	1.55 H	320	24.29	19.25
9	#17385.00	61.15 PK	74.0	-12.85	1.77 H	355	35.30	25.85
10	#17385.00	49.88 AV	54.0	-4.12	1.77 H	355	24.03	25.85
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	105.25 PK			1.55 V	63	94.67	10.58
2	*5795.00	95.66 AV			1.55 V	63	85.08	10.58
3	#5850.00	74.08 PK	122.2	-48.12	3.96 V	53	63.20	10.88
4	#5855.00	70.71 PK	110.8	-40.09	3.96 V	53	59.81	10.90
5	#5875.00	62.63 PK	105.2	-42.57	3.96 V	53	51.62	11.01
6	#5925.00	50.68 PK	68.2	-17.52	3.96 V	53	39.40	11.28
7	11590.00	55.12 PK	74.0	-18.88	1.77 V	360	35.87	19.25
8	11590.00	44.06 AV	54.0	-9.94	1.77 V	360	24.81	19.25
9	#17385.00	62.11 PK	74.0	-11.89	1.64 V	251	36.26	25.85
10	#17385.00	49.53 AV	54.0	-4.47	1.64 V	251	23.68	25.85

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 other emission levels were very low 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 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	63.30 PK	68.2	-4.90	3.96 H	280	53.50	9.80
2	#5700.00	66.93 PK	105.2	-38.27	3.96 H	280	56.86	10.07
3	#5720.00	74.54 PK	110.8	-36.26	3.96 H	280	64.36	10.18
4	#5725.00	74.97 PK	122.2	-47.23	3.96 H	280	64.77	10.20
5	*5775.00	106.88 PK			1.00 H	280	96.40	10.48
6	*5775.00	95.70 AV			1.00 H	280	85.22	10.48
7	#5850.00	71.58 PK	122.2	-50.62	3.96 H	280	60.70	10.88
8	#5855.00	70.55 PK	110.8	-40.25	3.96 H	280	59.65	10.90
9	#5875.00	67.82 PK	105.2	-37.38	3.96 H	280	56.81	11.01
10	#5950.00	55.99 PK	68.2	-12.21	2.33 H	156	44.58	11.41
11	11550.00	61.17 PK	74.0	-12.83	3.96 H	280	41.92	19.25
12	11550.00	45.29 AV	54.0	-8.71	2.33 H	156	26.04	19.25
13	#17325.00	63.59 PK	74.0	-10.41	2.14 H	360	37.77	25.82
14	#17325.00	49.66 AV	54.0	-4.34	2.14 H	360	23.84	25.82

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	63.45 PK	68.2	-4.75	1.00 V	53	53.65	9.80
2	#5700.00	66.42 PK	105.2	-38.78	1.00 V	53	56.35	10.07
3	#5720.00	73.47 PK	110.8	-37.33	1.00 V	53	63.29	10.18
4	#5725.00	74.89 PK	122.2	-47.31	1.00 V	53	64.69	10.20
5	*5775.00	105.72 PK			3.20 V	52	95.24	10.48
6	*5775.00	91.97 AV			3.20 V	52	81.49	10.48
7	#5850.00	76.60 PK	122.2	-45.6	1.00 V	53	65.72	10.88
8	#5855.00	71.22 PK	110.8	-39.58	1.00 V	53	60.32	10.90
9	#5875.00	66.45 PK	105.2	-38.75	1.00 V	53	55.44	11.01
10	#5925.00	63.39 PK	68.2	-4.81	1.00 V	53	52.11	11.28
11	11550.00	56.59 PK	74.0	-17.41	2.41 V	35	37.34	19.25
12	11550.00	45.88 AV	54.0	-8.12	2.41 V	35	26.63	19.25
13	#17325.00	63.25 PK	74.0	-10.75	3.21 V	251	37.43	25.82
14	#17325.00	49.87 AV	54.0	-4.13	3.21 V	251	24.05	25.82

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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	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	101588	Jan. 22,16	Jan. 21,17
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 04,16	Mar. 03,17
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 05,16	Apr. 04,17
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 08,16	Jan. 07,17
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

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.

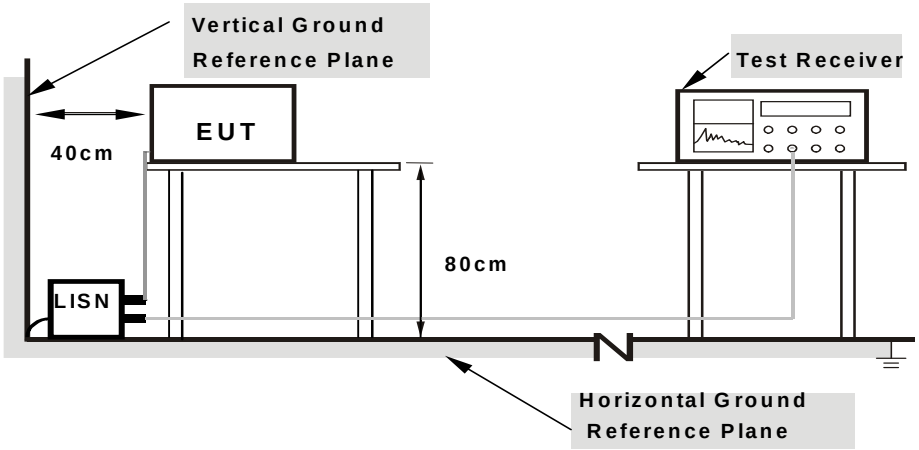
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

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

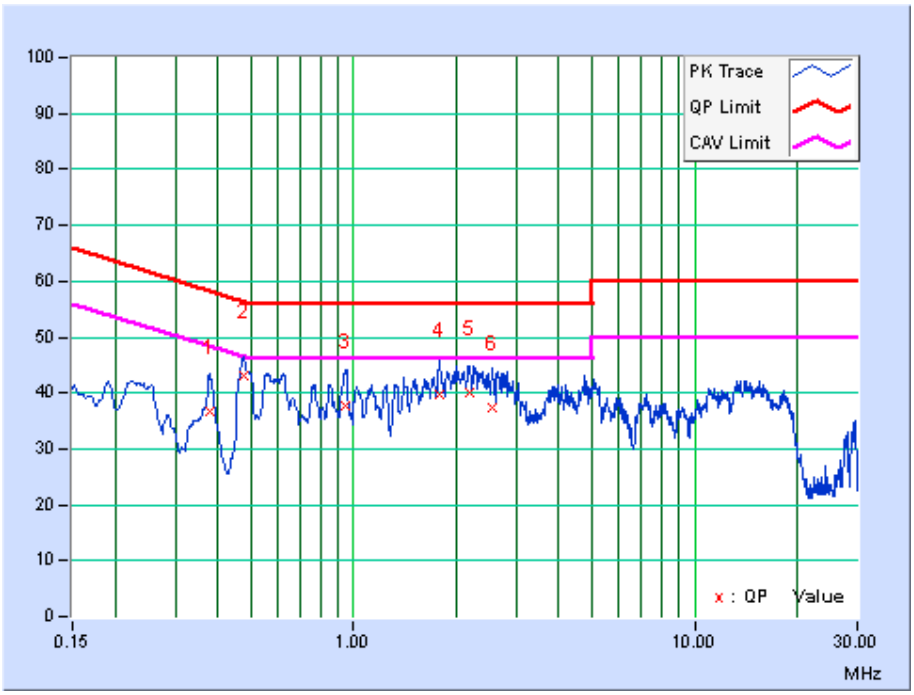
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a

PHASE	Line	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.37725	10.10	26.62	21.15	36.72	31.25	58.34	48.34	-21.62	-17.09
2	0.47384	10.14	32.83	24.67	42.97	34.81	56.45	46.45	-13.48	-11.64
3	0.95138	10.14	27.55	19.43	37.69	29.57	56.00	46.00	-18.31	-16.43
4	1.78818	10.15	29.42	23.75	39.57	33.90	56.00	46.00	-16.43	-12.10
5	**2.18625**	**10.15**	**29.99**	**25.06**	**40.14**	**35.21**	**56.00**	**46.00**	**-15.86**	**-10.79**
6	2.55975	10.15	27.10	21.73	37.25	31.88	56.00	46.00	-18.75	-14.12

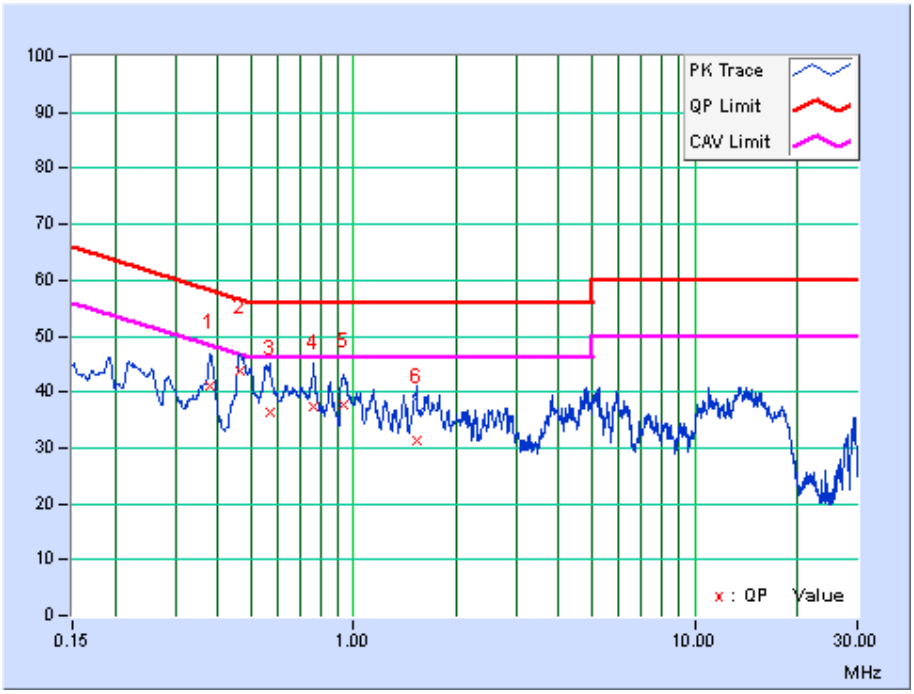
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Neutral	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.37959	9.84	31.30	25.16	41.14	35.00	58.29	48.29	-17.15	-13.29
2	0.46516	9.85	34.02	25.25	43.87	35.10	56.60	46.60	-12.73	-11.50
3	0.56853	9.84	26.66	20.29	36.50	30.13	56.00	46.00	-19.50	-15.87
4	0.76214	9.84	27.70	20.67	37.54	30.51	56.00	46.00	-18.46	-15.49
5	0.93396	9.84	27.84	19.10	37.68	28.94	56.00	46.00	-18.32	-17.06
6	1.52475	9.85	21.41	14.88	31.26	24.73	56.00	46.00	-24.74	-21.27

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak an d 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.



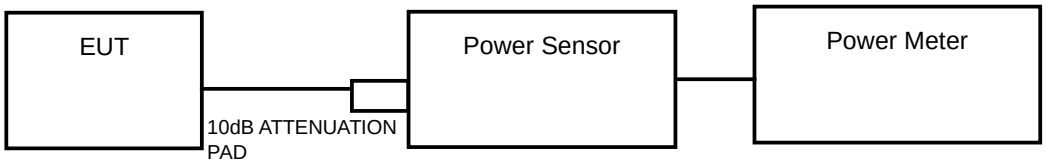
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

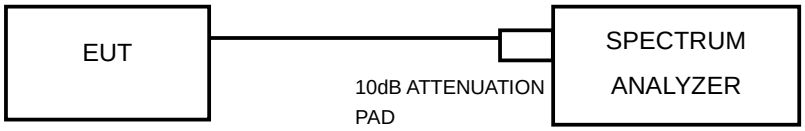
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client 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 6/26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,16	May 03,17
Power Sensor	Keysight	U2021XA	MY55060018	May 04,16	May 03,17
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 16	Aug.07, 17
ESG Vector Signal Generator	Agilent	E4438C	MY49072505	Apr. 22, 16	Apr. 21, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug.08, 16	Aug.07, 17

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.

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = RMS.
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.

3.3.5 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

OUTPUT POWER:

802.11a

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	14.37	27.353	24.00	PASS
40	5200	14.24	26.546	24.00	PASS
48	5240	14.24	26.546	24.00	PASS
52	5260	13.69	23.388	24.00	PASS
60	5300	13.72	23.550	24.00	PASS
64	5320	13.70	23.442	24.00	PASS
100	5500	13.73	23.604	24.00	PASS
132	5660	13.75	23.713	24.00	PASS
140	5700	13.74	23.659	24.00	PASS
149	5745	14.73	29.716	30.00	PASS
157	5785	14.72	29.648	30.00	PASS
165	5825	14.71	29.580	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(27.38)=25.37dBm > 24dBm

802.11n (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	14.09	14.01	25.645	25.177	50.822	17.06	24.00	PASS
40	5200	14.12	14.03	25.823	25.293	**51.116**	**17.09**	24.00	PASS
48	5240	14.03	14.01	25.293	25.177	50.470	17.03	24.00	PASS
52	5260	14.18	14.11	26.182	25.763	51.945	17.16	24.00	PASS
60	5300	14.20	14.15	26.303	26.002	**52.304**	**17.19**	24.00	PASS
64	5320	14.14	14.11	25.942	25.763	51.705	17.14	24.00	PASS
100	5500	13.79	13.73	23.933	23.605	47.538	16.77	24.00	PASS
132	5660	13.78	13.72	23.878	23.550	47.429	16.76	24.00	PASS
140	5700	13.74	13.71	23.659	23.496	47.156	16.74	24.00	PASS
149	5745	14.78	14.77	30.061	29.992	60.052	17.79	30.00	PASS
157	5785	14.82	14.75	30.339	29.854	60.193	17.80	30.00	PASS
165	5825	14.78	14.72	30.061	29.648	59.709	17.76	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(26.69)=25.26dBm > 24dBm

802.11n (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	14.06	14.03	25.468	25.293	50.761	17.06	24.00	PASS
46	5230	14.09	14.01	25.645	25.177	50.822	17.06	24.00	PASS
54	5270	14.13	14.08	25.882	25.586	51.468	17.12	24.00	PASS
62	5310	14.08	14.06	25.586	25.468	51.054	17.08	24.00	PASS
102	5510	13.91	13.84	24.604	24.210	48.814	16.89	24.00	PASS
134	5670	13.98	14.02	25.003	25.235	**50.238**	**17.01**	24.00	PASS
151	5755	14.92	14.88	31.046	30.761	61.807	17.91	24.00	PASS
159	5795	14.98	14.85	31.477	30.549	**62.027**	**17.93**	30.00	PASS

802.11ac (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	13.83	13.81	24.155	24.044	48.198	16.83	24.00	PASS
58	5290	13.76	13.72	23.768	23.550	47.319	16.75	24.00	PASS
106	5530	13.82	13.78	24.099	23.878	47.977	16.81	24.00	PASS
155	5775	14.72	14.71	29.648	29.580	59.228	17.73	30.00	PASS

26dB BANDWIDTH:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	34.52	PASS
40	5200	36.52	PASS
48	5240	30.30	PASS
52	5260	32.49	PASS
60	5300	33.07	PASS
64	5320	27.38	PASS
100	5500	33.22	PASS
132	5660	43.46	PASS
140	5700	36.89	PASS

802.11n (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	34.35	40.05	PASS
40	5200	36.86	42.61	PASS
48	5240	30.26	40.39	PASS
52	5260	30.29	41.79	PASS
60	5300	33.22	45.74	PASS
64	5320	28.49	40.36	PASS
100	5500	33.19	26.69	PASS
132	5660	42.42	46.81	PASS
140	5700	33.12	40.42	PASS

802.11n (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
38	5190	44.95	45.20	PASS
46	5230	67.75	78.88	PASS
54	5270	51.41	82.46	PASS
62	5310	45.04	45.47	PASS
102	5510	62.03	43.88	PASS
118	5590	92.75	84.44	PASS
134	5670	91.67	92.58	PASS

802.11ac (80MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
42	5210	82.58	85.48	PASS
58	5290	82.43	85.68	PASS
106	5530	126.49	105.37	PASS

6dB BANDWIDTH For 5725-5850MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	**5745**	16.53	PASS
157	**5785**	16.52	PASS
165	**5825**	16.53	PASS

802.11n (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
149	**5745**	17.77	17.74	PASS
157	**5785**	17.75	17.78	PASS
165	**5825**	17.75	17.78	PASS

802.11n (40M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
151	**5755**	36.61	36.54	PASS
159	**5795**	36.58	36.55	PASS

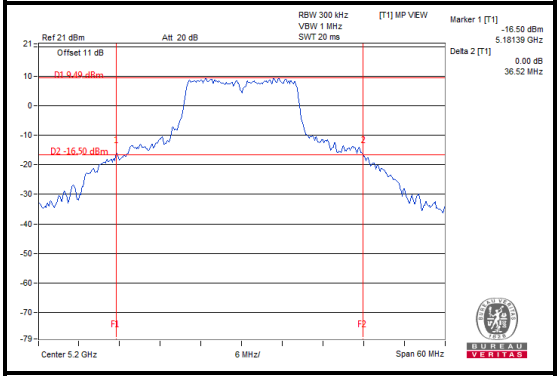
802.11ac (80MHz)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
155	**5775**	75.78	75.77	PASS

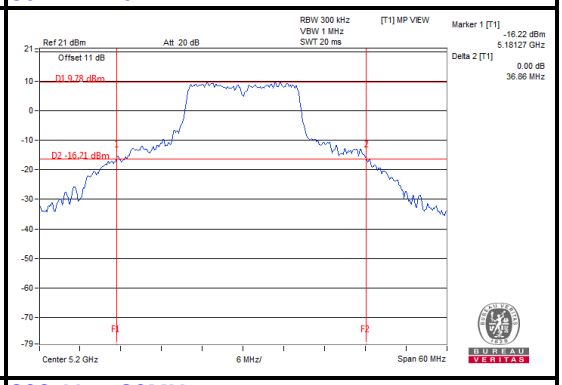
26dB bandwidth Test Plot
For 5150-5250MHz worst plot
Chain 0

SPECTRUM PLOT OF WORST VALUE

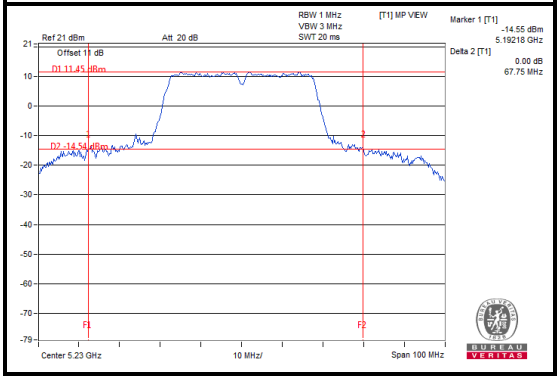
802.11a



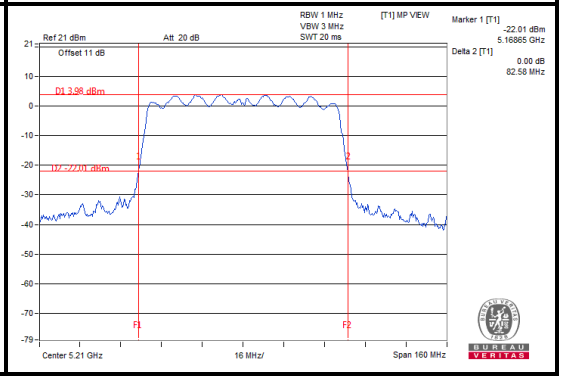
802.11n 20MHz



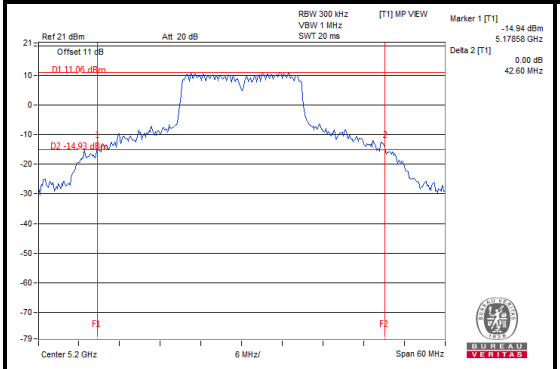
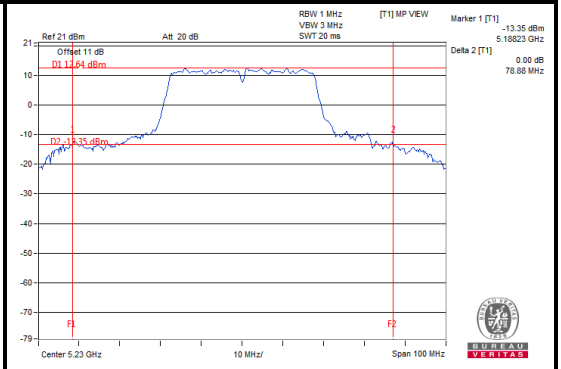
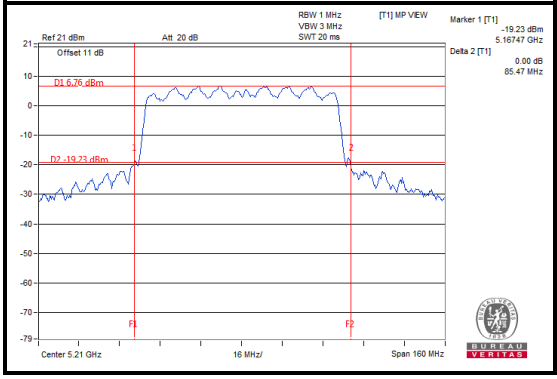
802.11n 40MHz



802.11ac 80MHz

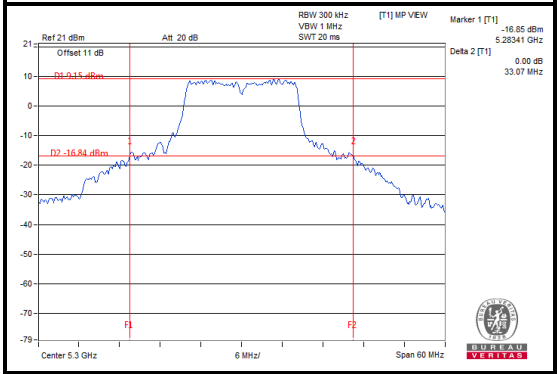
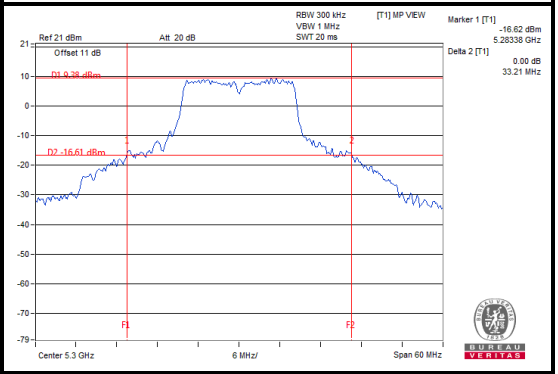
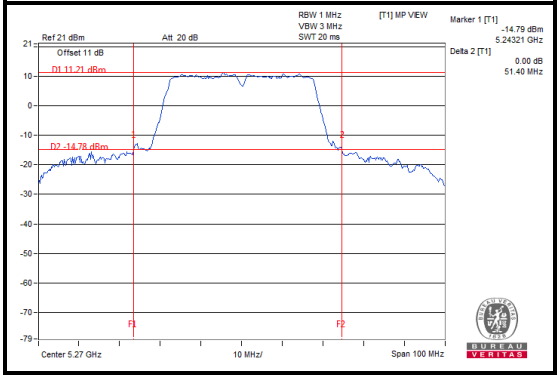
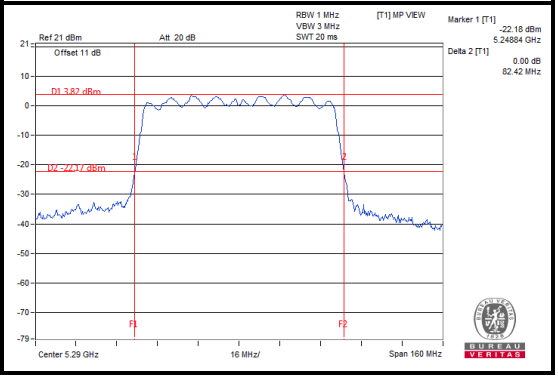


Chain 1

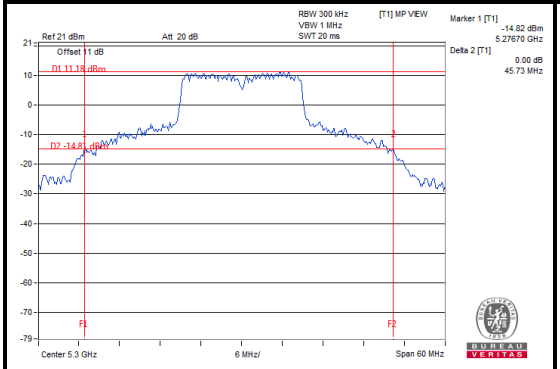
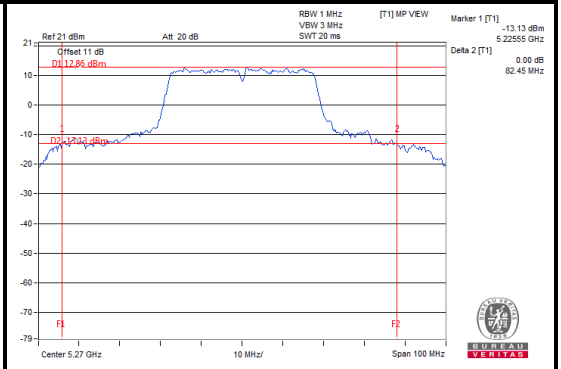
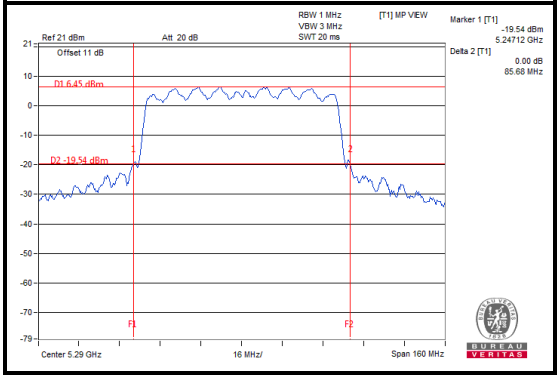
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

For 5250-5350MHz

Chain 0

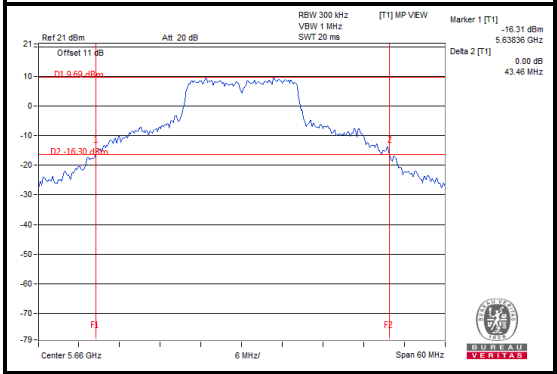
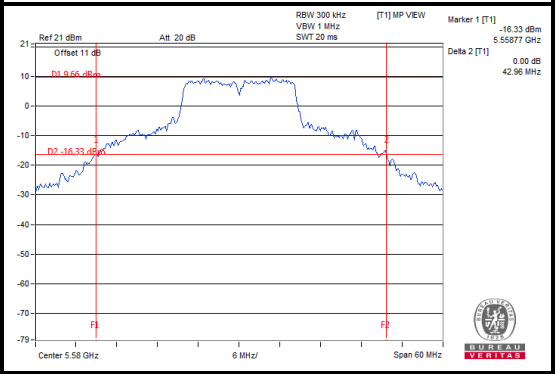
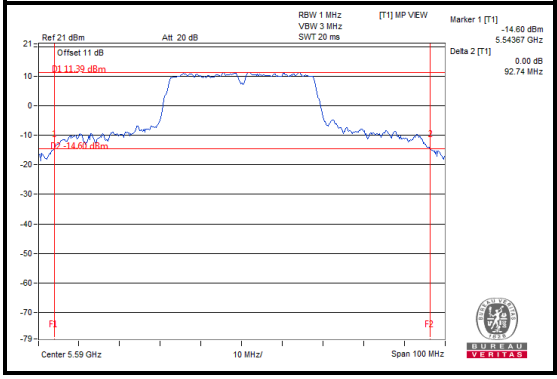
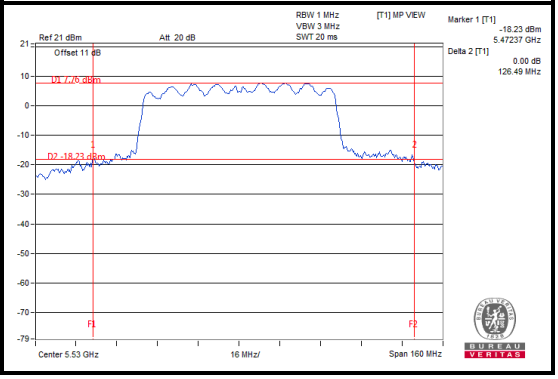
SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

Chain 1

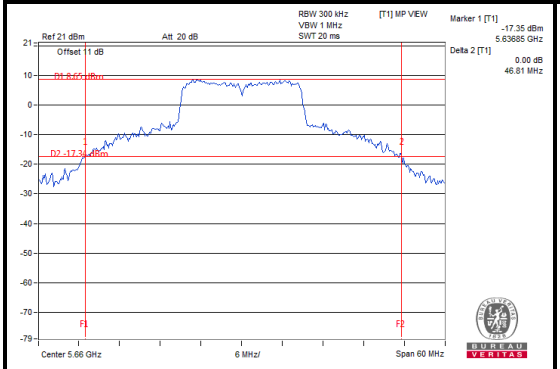
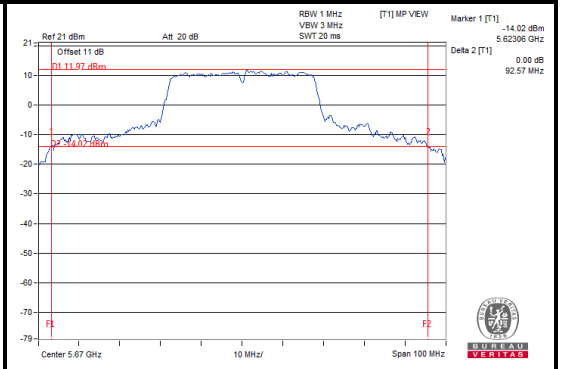
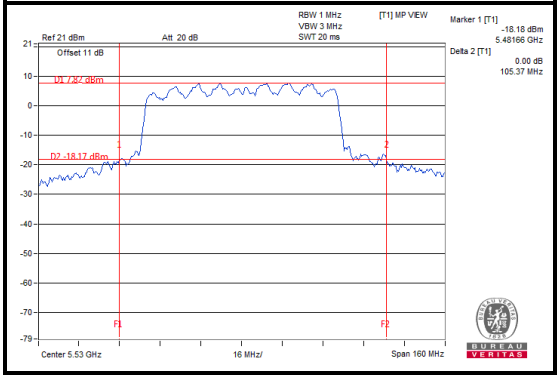
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

For 5470-5725MHz

Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

Chain 1

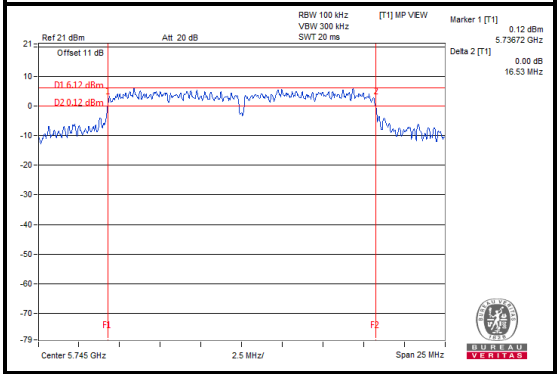
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

6dB BANDWIDTH For 5725-5850MHz

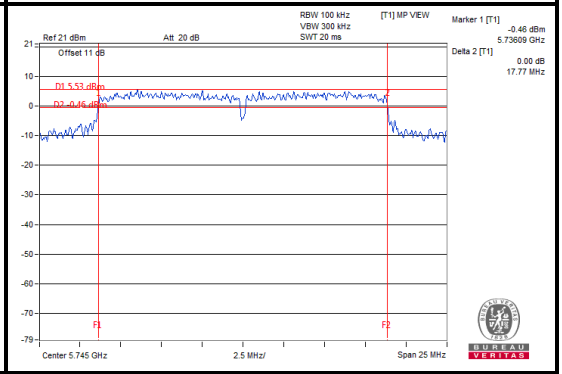
Chain 0

SPECTRUM PLOT OF WORST VALUE

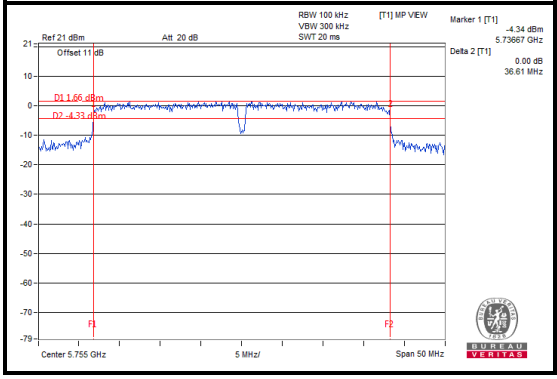
802.11a



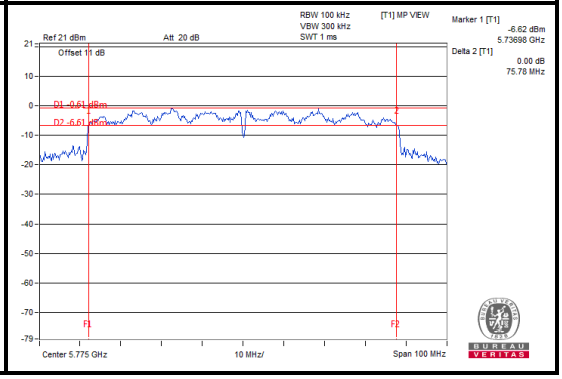
802.11n 20MHz



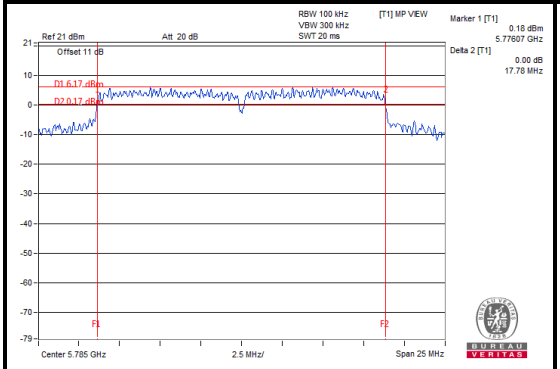
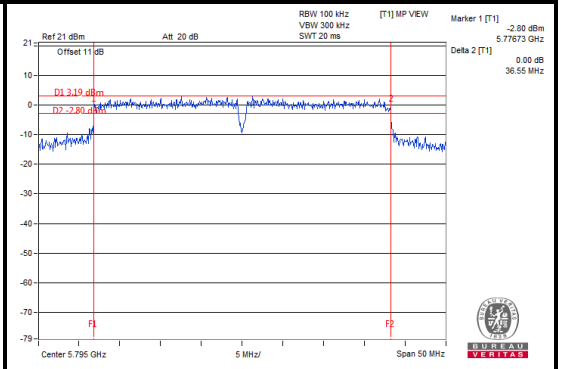
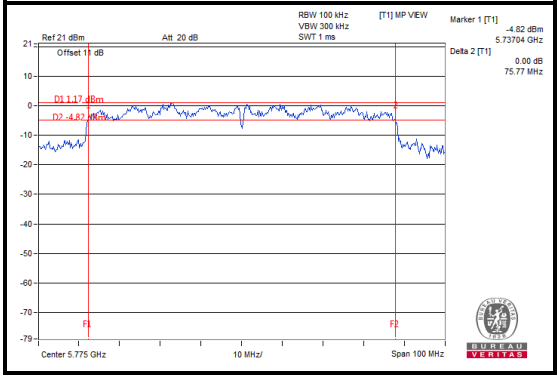
802.11n 40MHz



802.11ac 80MHz



Chain 1

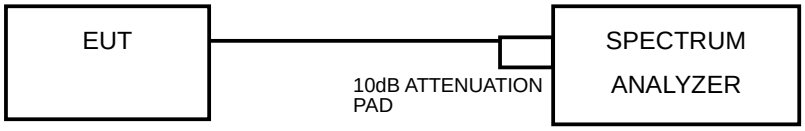
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

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, U-NII-2A & U-NII-2C，For U-NII-3: 802.11a

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)	Total power density (mW)	MAX. Limit (dBm)	PASS / FAIL
36	5180	5.21	3.3189	11.00	PASS
40	5200	5.88	3.8726	11.00	PASS
48	5240	4.38	2.7416	11.00	PASS
52	5260	4.22	2.6424	11.00	PASS
60	5300	5.08	3.2211	11.00	PASS
64	5320	4.20	2.6303	11.00	PASS
100	5500	3.73	2.3605	11.00	PASS
115	5580	5.52	3.5645	11.00	PASS
140	5700	3.68	2.3335	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	-0.86	1.36	30.00	PASS
157	5785	-0.54	1.68	30.00	PASS
165	5825	-0.35	1.87	30.00	PASS

802.11n (20MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		Total power density (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	5.14	5.51	3.266	3.556	6.822	8.34	11.00	PASS
40	5200	5.81	6.23	3.811	4.198	8.008	9.04	11.00	PASS
48	5240	4.48	5.47	2.805	3.524	6.329	8.01	11.00	PASS
52	5260	4.22	5.95	2.642	3.9355	6.578	8.18	11.00	PASS
60	5300	5.33	6.43	3.412	4.395	7.807	8.93	11.00	PASS
64	5320	4.56	5.66	2.858	3.6813	6.539	8.16	11.00	PASS
100	5500	3.68	4.02	2.333	2.523	4.857	6.86	11.00	PASS
115	5580	5.29	4.69	3.381	2.944	6.325	8.01	11.00	PASS
140	5700	4.27	4.10	2.673	2.570	5.243	7.20	11.00	PASS

Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)		RF Power Level in 500kHz BW (dBm)		Total PSD (dBm/500kHz)	MAX. Limit (dBm/ 500k)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1			
149	5745	-0.77	-1.34	1.45	0.88	4.18	30.00	PASS
157	5785	-0.51	-1.32	1.71	0.90	4.33	30.00	PASS
165	5825	-0.42	-1.14	1.80	1.08	4.46	30.00	PASS

802.11n (40MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		Total power density (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	-1.01	-0.82	0.793	0.828	1.620	2.10	11.00	PASS
46	5230	1.57	2.12	1.435	1.629	3.065	4.86	11.00	PASS
54	5270	0.62	2.40	1.153	1.738	2.891	4.61	11.00	PASS
62	5310	-0.95	-0.59	0.804	0.873	1.676	2.24	11.00	PASS
102	5510	1.09	0.78	1.285	1.197	2.482	3.95	11.00	PASS
115	5590	1.46	1.32	1.400	1.355	2.755	4.40	11.00	PASS
134	5670	1.01	0.82	1.262	1.208	2.470	3.93	11.00	PASS

Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)		RF Power Level in 500kHz BW (dBm)		Total PSD (dBm/500kHz)	MAX. Limit (dBm/ 500k)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1			
151	5755	-5.19	-5.05	-2.97	-2.83	0.11	30.00	PASS
159	5795	-4.62	-4.85	-2.40	-2.63	0.50	30.00	PASS

802.11ac (80MHz)

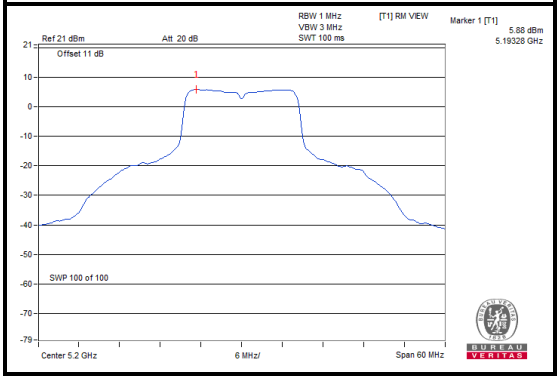
Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		Total power density (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	-5.78	-3.6	0.264	0.437	0.701	-1.54	11.00	PASS
58	5290	-6.33	-4.12	0.233	0.387	0.620	-2.08	11.00	PASS
106	5530	-1.99	-2.24	0.632	0.597	1.229	0.90	11.00	PASS

Channel Number	Frequency (MHz)	RF Power Level in 300kHz BW (dBm)		RF Power Level in 500kHz BW (dBm)		Total PSD (dBm/500kHz)	MAX. Limit (dBm/ 500k)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1			
155	5775	-7.03	-7.02	-4.81	-4.80	-1.80	30.00	PASS

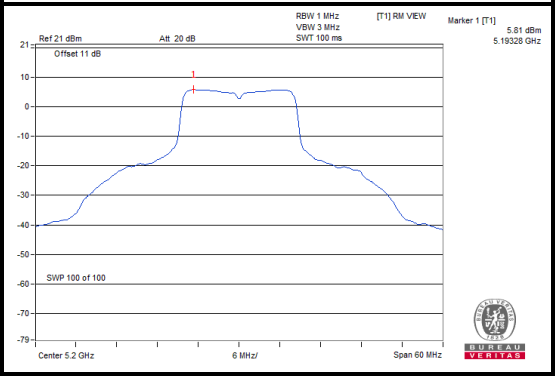
PSD Test Plot
BAND 1
5150-5250MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE

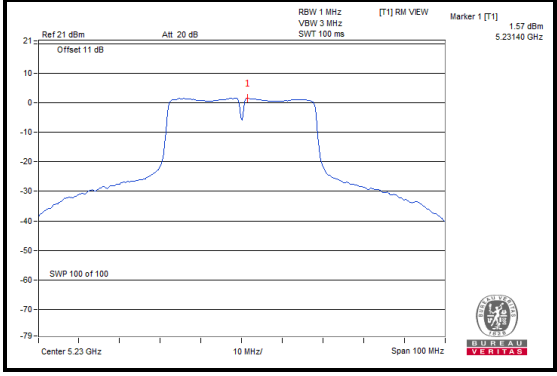
802.11a



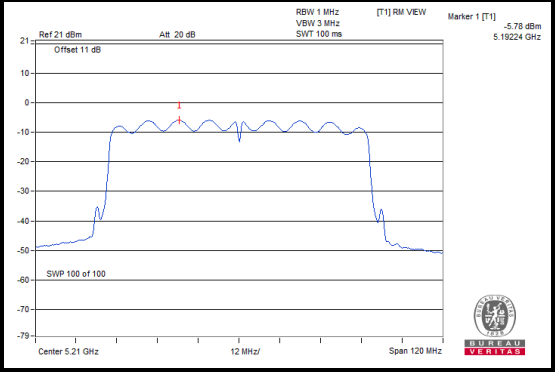
802.11n 20MHz



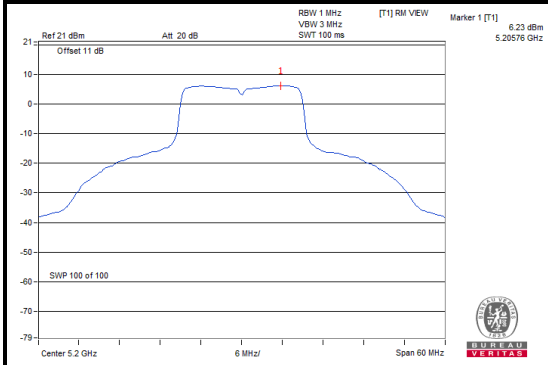
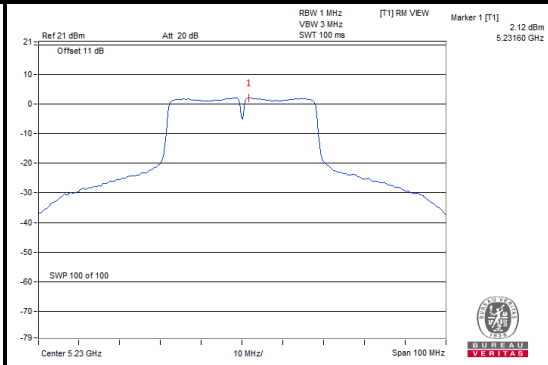
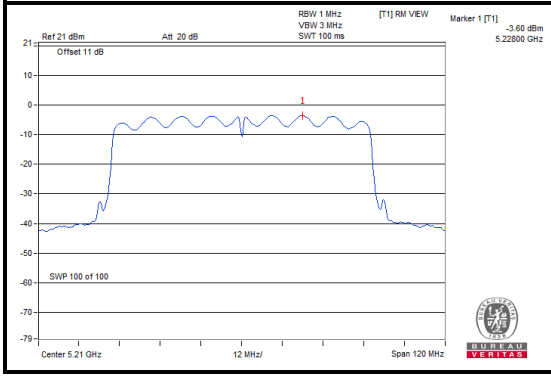
802.11n 40MHz



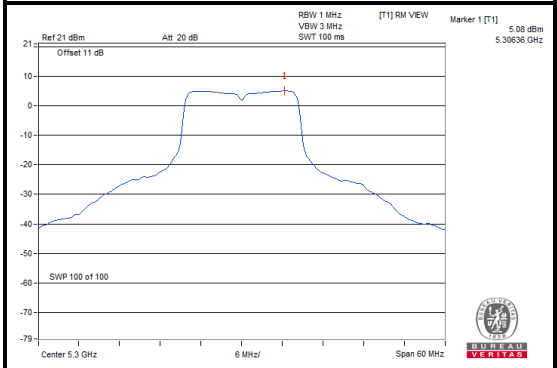
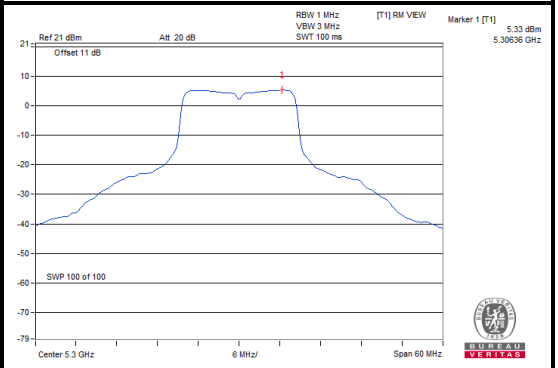
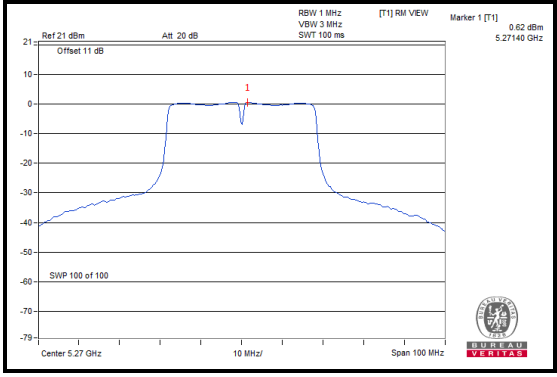
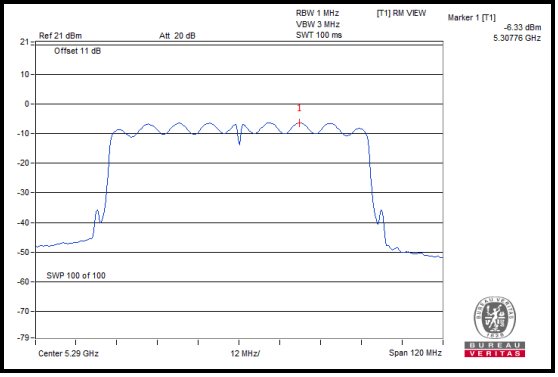
802.11ac 80MHz



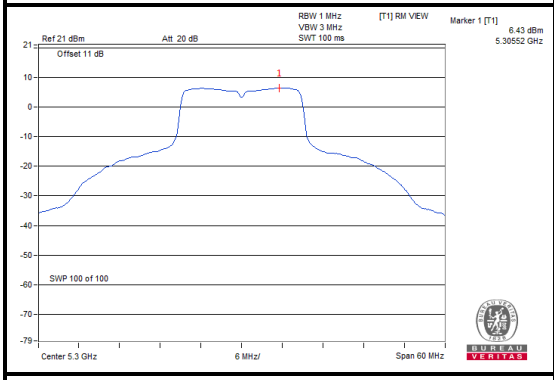
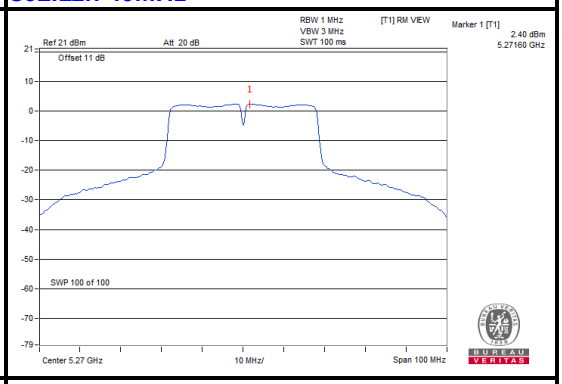
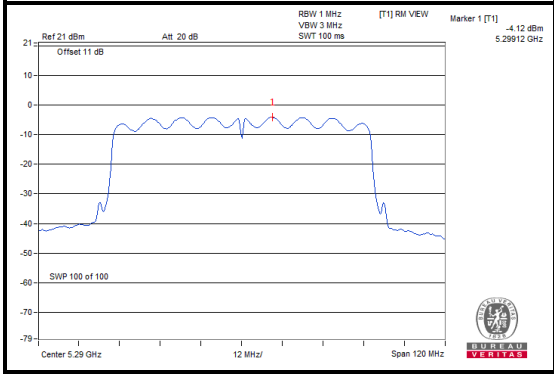
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

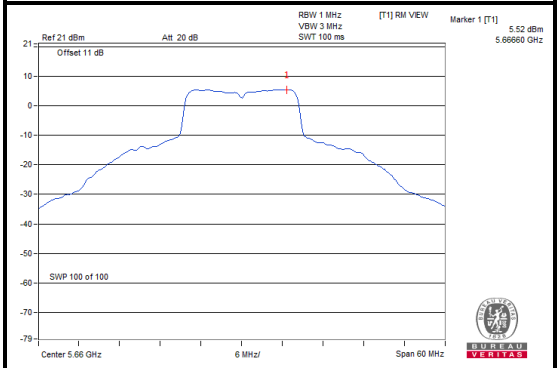
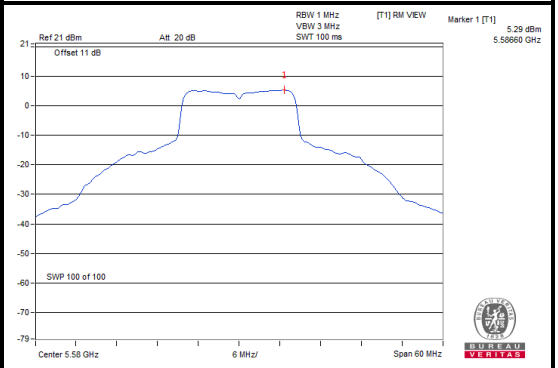
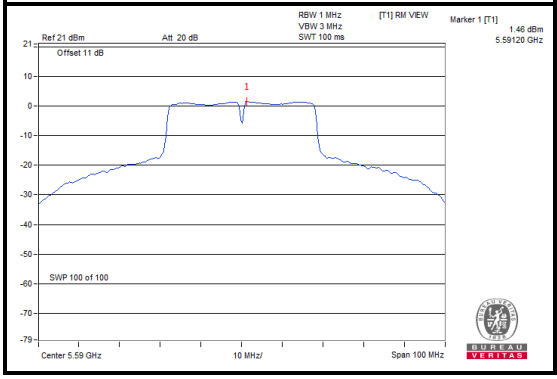
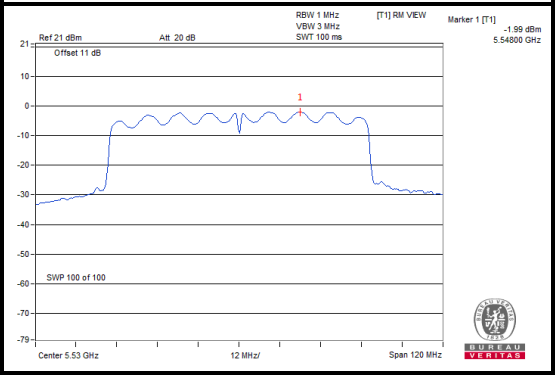
BAND 2
5250-5350MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

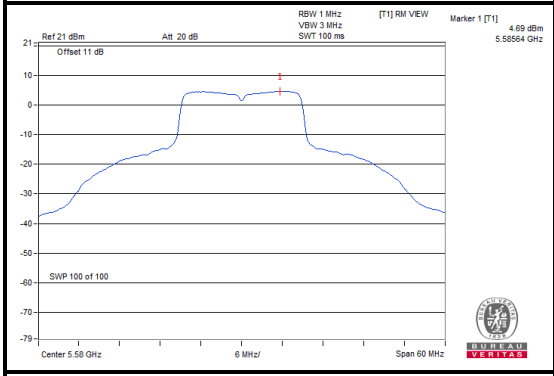
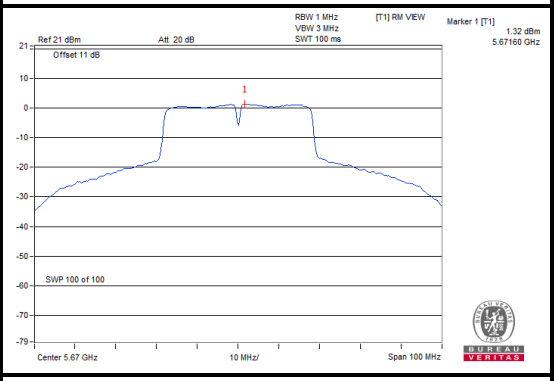
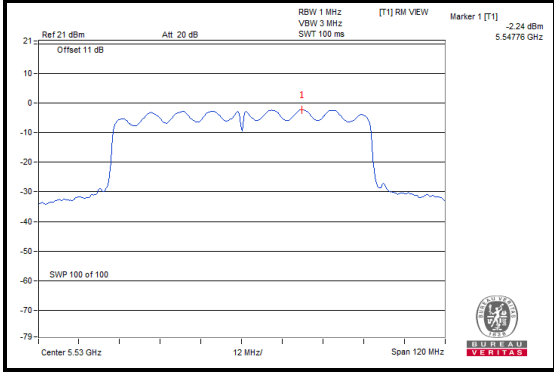
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

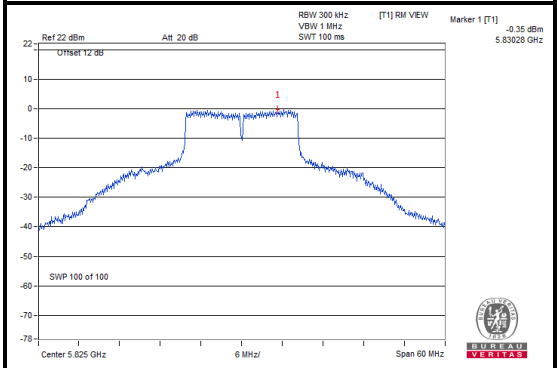
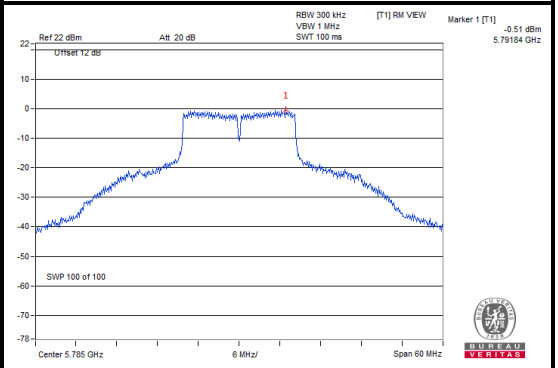
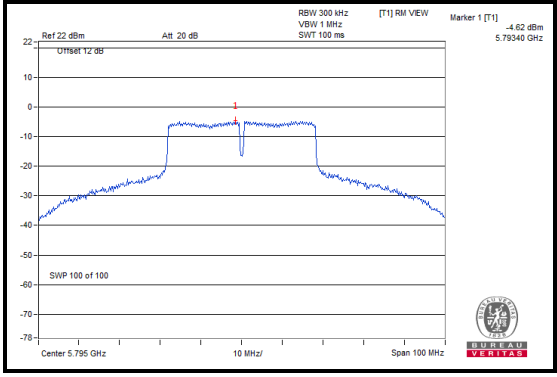
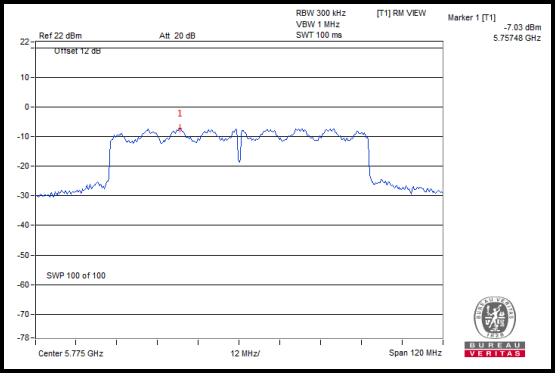
BAND 3
5470-5725MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

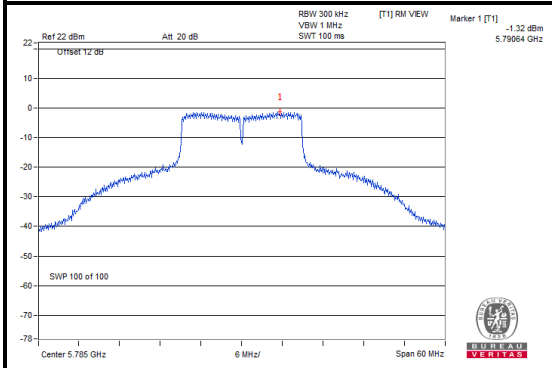
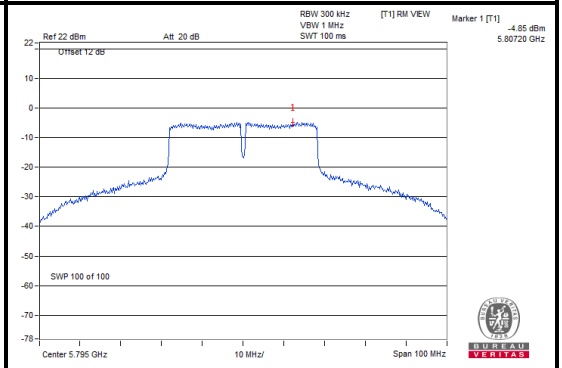
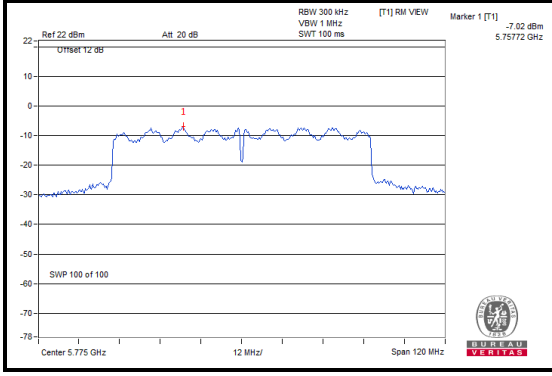
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

BAND4
5725-5850MHz
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n 20MHz**
	
802.11n 40MHz	**802.11ac 80MHz**
	

Chain 1

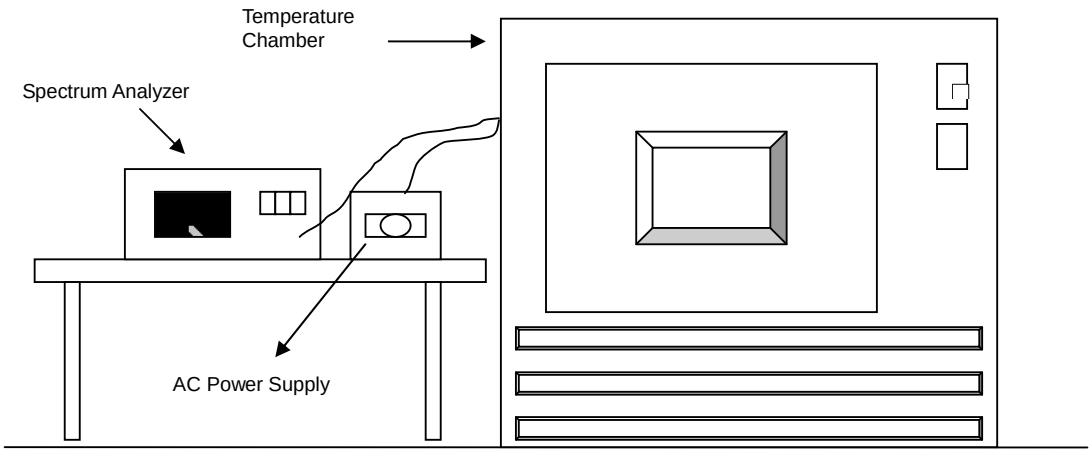
SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	**802.11n 40MHz**
	
802.11ac 80MHz	
	

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

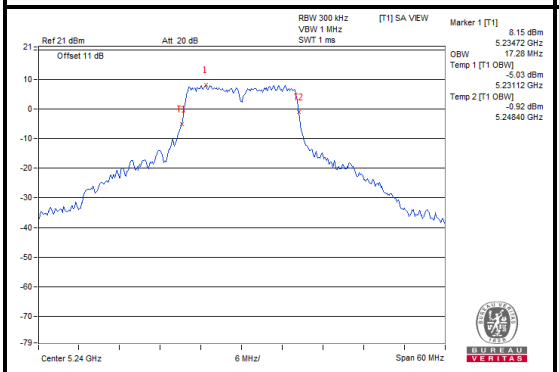
FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	120	5179.9789	-0.00041	5179.9818	-0.00035	5179.9786	-0.00041	5179.9815	-0.00036
40	120	5179.9856	-0.00028	5179.9886	-0.00022	5179.9873	-0.00025	5179.9901	-0.00019
30	120	5180.0048	0.00009	5180.0028	0.00005	5180.0044	0.00008	5180.0047	0.00009
20	120	5179.9898	-0.00020	5179.9947	-0.00010	5179.9925	-0.00014	5179.9915	-0.00016
10	120	5179.9898	-0.00020	5179.9899	-0.00019	5179.9873	-0.00025	5179.9916	-0.00016
0	120	5180.0095	0.00018	5180.0129	0.00025	5180.0114	0.00022	5180.0111	0.00021
-10	120	5179.9775	-0.00043	5179.9766	-0.00045	5179.9762	-0.00046	5179.9791	-0.00040
-20	120	5180.0206	0.00040	5180.0216	0.00042	5180.0221	0.00043	5180.0189	0.00036
-30	120	5180.0186	0.00036	5180.0207	0.00040	5180.0222	0.00043	5180.0202	0.00039

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (℃)	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	5179.9895	-0.00020	5179.9941	-0.00011	5179.9923	-0.00015	5179.9909	-0.00018
	120	5179.9898	-0.00020	5179.9947	-0.00010	5179.9925	-0.00014	5179.9915	-0.00016
	102	5179.9905	-0.00018	5179.9944	-0.00011	5179.9921	-0.00015	5179.9915	-0.00016

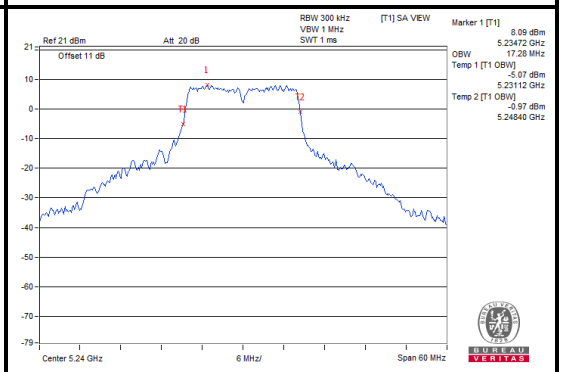
Band 1
5150-5250MHz
99% Occupied Bandwidth Without over DFS Band

SPECTRUM PLOT OF WORST VALUE

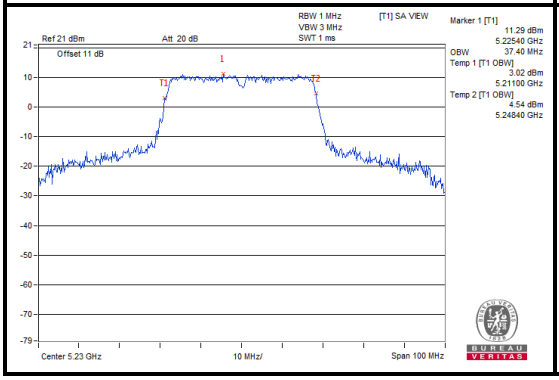
802.11a 5240MHz



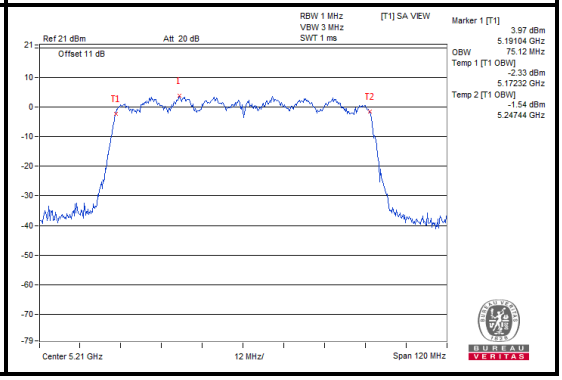
802.11n 20MHz 5240MHz



802.11n 40MHz 5230MHz



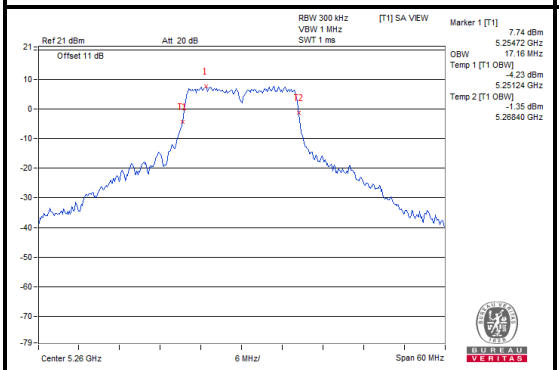
802.11ac 80MHz 5210MHz



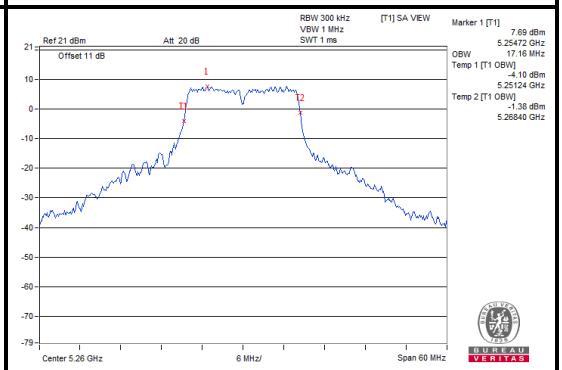
Band 2
5250-5350MHz
99% Occupied Bandwidth Without over Band 1

SPECTRUM PLOT OF WORST VALUE

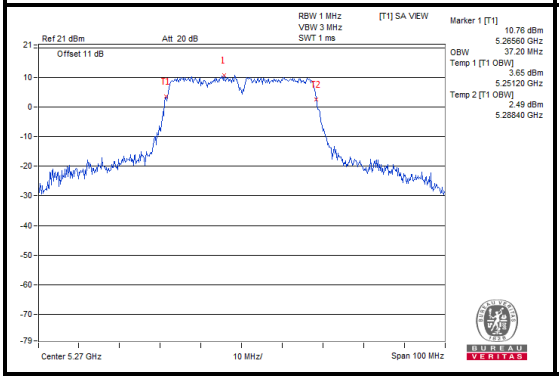
802.11a 5260MHz



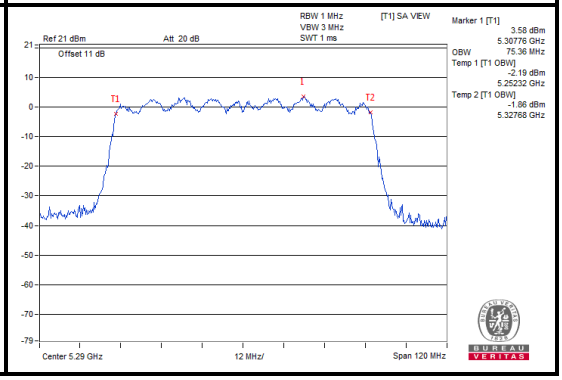
802.11n 20MHz 5260MHz



802.11n 40MHz 5270MHz



802.11ac 80MHz 5290MHz



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.

---END---