



FCC TEST REPORT

(Part 15, Subpart E)

Applicant:	DataRemote Incorporated
Address:	18001 Old Cutler Rd. Suite 600, Miami, FL 33157

DataRemote Incorporated
18001 Old Cutler Rd. Suite 600, Miami, FL 33157
LTE Cellular Router
DataRemote
CDS-9010
2AJLF-CDS-9010
Mar. 23, 2019 ~ Apr. 28, 2019

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

Prepared by Alex Chen

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

Engineer / Mobile Department	Manager / Mobile Department
Alex	lufe lu
Date: Apr. 30, 2019	Date: Apr. 30, 2019

Date: Apr. 30, 2019

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TABLE OF CONTENTS

R	ELEASE (CONTROL RECORD	4
1	SUMN	IARY OF TEST RESULTS	5
	1.1 ME	ASUREMENT UNCERTAINTY	5
2	GENE	RAL INFORMATION	6
	2.1 GEI	NERAL DESCRIPTION OF EUT	6
	2.2 DES	SCRIPTION OF TEST MODES	8
	2.2.1	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	9
	2.3 DU	TY CYCLE OF TEST SIGNAL	12
	2.4 DES	SCRIPTION OF SUPPORT UNITS	13
	2.4.1	CONFIGURATION OF SYSTEM UNDER TEST	13
	2.5 GEI	NERAL DESCRIPTION OF APPLIED STANDARDS	14
3	TEST	TYPES AND RESULTS	15
	3.1 RAI	DIATED EMISSION AND BANDEDGE MEASUREMENT	15
	3.1.1	LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	15
	3.1.2	LIMITS OF UNWANTED EMISSION	16
	3.1.3	TEST INSTRUMENTS	17
	3.1.4	TEST PROCEDURES	18
	3.1.5	DEVIATION FROM TEST STANDARD	18
	3.1.6	TEST SETUP	19
	3.1.7	EUT OPERATING CONDITION	20
	3.1.8	TEST RESULTS	21
	3.2 CO	NDUCTED EMISSION MEASUREMENT	50
	3.2.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	50
	3.2.2	TEST INSTRUMENTS	50
	3.2.3	TEST PROCEDURES	50
	3.2.4	DEVIATION FROM TEST STANDARD	51
	3.2.5	TEST SETUP	51
	3.2.6	EUT OPERATING CONDITIONS	51
	3.2.7	TEST RESULTS	52
	3.3 MA	XIMUM CONDUCTED OUTPUT POWER MEASUREMENT	54
	3.3.1	LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT	54
	3.3.2	TEST SETUP	55

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	3.3.3	TEST INSTRUMENTS	55
	3.3.4	TEST PROCEDURE	56
	3.3.5	DEVIATION FROM TEST STANDARD	58
	3.3.6	EUT OPERATING CONDITIONS	58
	3.3.7	TEST RESULTS	59
3	.4 MA>	(IMUM POWER SPECTRAL DENSITY MEASUREMENT	66
	3.4.1	LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT	66
	3.4.2	TEST SETUP	66
	3.4.3	TEST INSTRUMENTS	66
	3.4.4	TEST PROCEDURES	67
	3.4.5	DEVIATION FROM TEST STANDARD	67
	3.4.6	EUT OPERATING CONDITIONS	
	3.4.7	TEST RESULTS	
3	.5 FRE	QUENCY STABILITY	72
	3.5.1	LIMITS OF FREQUENCY STABILITY MEASUREMENT	72
	3.5.2	TEST SETUP	72
	3.5.3	TEST INSTRUMENTS	72
	3.5.4	TEST PROCEDURE	73
	3.5.5	DEVIATION FROM TEST STANDARD	73
	3.5.6	EUT OPERATING CONDITION	73
	3.5.7	TEST RESULTS	74
4	РНОТО	OGRAPHS OF THE TEST CONFIGURATION	76
5	ADDEN	NDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THI	E
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF190322W001-2	Original release	Apr. 30, 2019

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)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -9.08dB at 0.444000MHz.
15.407(b) (1/2/3/4/6)	Radiated Emission & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.02dB at 5150MHz.
15.407(a/1/2/3)	Maximum conducted output 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(e)	6 dB Bandwidth	PASS	Meet the requirement of limit. (U-NII-3 Band only)
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	UNCERTAINTY
AC Power Conducted emissions	\pm 2.70dB
All Radiated emissions	±4.48dB
Conducted emissions	±2 dB
Occupied Channel Bandwidth	±21.7KHz
Conducted Output power	±1.03 dB
Power Spectral Density	±0.95 dB

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

EUT	LTE Cellular Router
MODEL NO.	CDS-9010
POWER SUPPLY	12.0Vdc (adapter or host equipment) 7.3Vdc (Li-ion, battery)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to MCS7 802.11ac: up to 390.0Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 1 for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 1 for 802.11ac (80MHz)
AVERAGE POWER	81.846mW for 5180 ~ 5240MHz 85.901mW for 5745 ~ 5825MHz
ANTENNA TYPE	PCB Antenna with 5.08dBi gain
HW VERSION	V1.1
SW VERSION	V3.10
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

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

2. The EUT was powered by the following adapter:

ADAPTER	
IKK VVII).	SHENZHEN GONGJIN ELECTRONICS CO.,LTD Electronic Limited
MODEL:	S24B72-120A200-C4
INPUT:	AC 100-240V, 800mA
OUTPUT:	DC 12V, 2000mA



3. The EUT matched the following Ethernet Cable and Telephone Cables:

ETHERNET CABLE	
BRAND:	Shenzhen Eternity Ju Electronic Co., Ltd
MODEL:	RJ45-8P8C
SIGNAL LINE:	1500±20mm

TELEPHONE CABLE 1		
BRAND:	Shenzhen Eternity Ju Electronic Co., Ltd	
MODEL:	RJ11-6P2C	
SIGNAL LINE:	1500±20mm	

TELEPHONE CABLE 2				
BRAND:	Shenzhen Eternity Ju Electronic Co., Ltd			
MODEL:	RJ11-6P2C			
SIGNAL LINE:	1500±20mm			

4. The EUT incorporates MIMO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION		
802.11a	1TX /1RX		
802.11n (20MHz)	2TX /2RX		
802.11n (40MHz)	2TX /2RX		
802.11ac (80MHz)	2TX /2RX		

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

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

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

2 channels are provided for 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	5210 MHz			

FOR 5725 ~ 5825MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY	
151	5755 MHz	159	5795 MHz	

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775 MHz		



2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION		
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION		
Α	V	$\sqrt{}$	√	-	Powered by Adapter with wifi(5G) link		
В	-	•	-	√	Powered by Battery with wifi(5G) link		
С	-	-	-	-	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:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane.**NOTE: "-"means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0
Α	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	MCS0
Α	802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
Α	802.11ac (80MHz)		42	42	OFDM	BPSK	V0
Α	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0
Α	802.11n (20MHz)	5725-5825	149 to 165	149, 157, 165	OFDM	BPSK	MCS0
Α	802.11n (40MHz)		151 to 159	151, 159	OFDM	BPSK	MCS0
Α	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)
Α	802.11n (40MHz)	5180-5240	38 to 46	38	OFDM	BPSK	MCS0

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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)
Α	802.11n (40MHz)	5180-5240	38 to 46	38	OFDM	BPSK	MCS0

BANDEDGE MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
Α	802.11a		36 to 48	36, 48	OFDM	BPSK	6.0
Α	802.11n (20MHz)	5180-5240	36 to 48	36, 48	OFDM	BPSK	MCS0
Α	802.11n (40MHz)	5160-5240	38 to 46	38, 46	OFDM	BPSK	MCS0
Α	802.11ac (80MHz)		42	42	OFDM	BPSK	V0
Α	802.11a		149 to 165	149, 165	OFDM	BPSK	6.0
Α	802.11n (20MHz)	5725-5825	149 to 165	149, 165	OFDM	BPSK	MCS0
Α	802.11n (40MHz)	3123-3023	151 to 159	151, 159	OFDM	BPSK	MCS0
Α	802.11ac (80MHz)		155	155	OFDM	BPSK	V0



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)
В	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0
В	802.11n (20MHz)	E400 E240	36 to 48	36, 40, 48	OFDM	BPSK	MCS0
В	802.11n (40MHz)	5180-5240	38 to 46	38, 46	OFDM	BPSK	MCS0
В	802.11ac (80MHz)		42	42	OFDM	BPSK	V0
В	802.11a		149 to 165	149, 165	OFDM	BPSK	6.0
В	802.11n (20MHz)	5725-5825	149 to 165	149, 165	OFDM	BPSK	MCS0
В	802.11n (40MHz)	3123-3023	151 to 159	151, 159	OFDM	BPSK	MCS0
В	802.11ac (80MHz)		155	155	OFDM	BPSK	V0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 62%RH	DC 12V from adaptor	Star Le
RE≥1G	23deg. C, 62%RH	DC 12V from adaptor	Star Le
PLC	24deg. C, 61%RH	DC 12V from adaptor	John Wen
APCM	23.5deg. C, 60%RH	7.3Vdc from battery	Rain Wang



2.3 DUTY CYCLE OF TEST SIGNAL

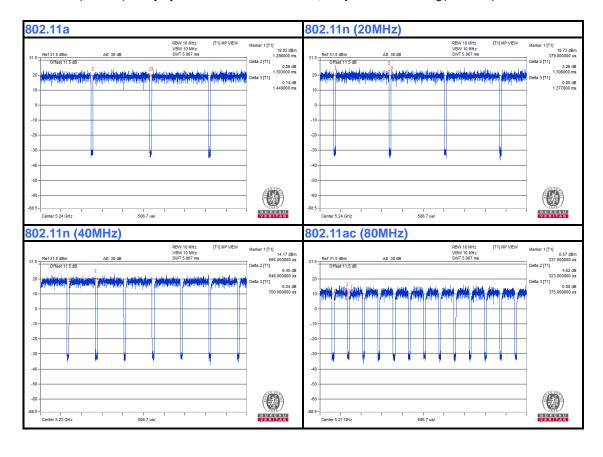
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 1.393/1.449 = 0.961, Duty factor = 10 * log(1/0.961) = 0.17

802.11n (20MHz): Duty cycle = 1.306 / 1.377 = 0.948, Duty factor = 10 * log(1/0.948) = 0.23

802.11n (40MHz): Duty cycle = 0.646/0.700 = 0.923, Duty factor = 10 * log(1/0.923) = 0.35

802.11ac (80MHz): Duty cycle = 0.323/0.375 = 0.861, Duty factor = $10 * \log(1/0.861) = 0.65$



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.

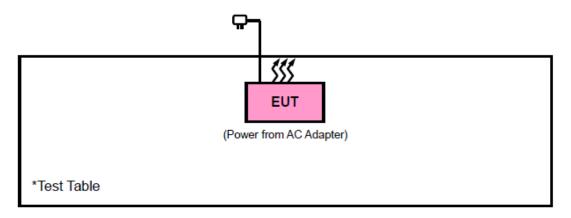
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A
2	PC	HP	A6608CN	3CR83825X3	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS							
1	DC Line: Unshielded, Detachable 1.0m							
2	AC Line: Unshielded, Detachable 1.5m							

NOTE:

1. All power cords of the above support units are non shielded (1.8m).

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST





2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
ANSI C63.10-2013

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

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

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



3.1.2 LIMITS OF UNWANTED EMISSION

	APPLICABLE TO	LIMIT					
RESTRICTED BANDS	789033 D02 General	FIELD STRENG	FIELD STRENGTH AT 3m (dBμV/m)				
272 3	UNII Test Procedures New Rules v01r02	PK : 74	AV : 54				
	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)				
	15.407(b)(1)						
OUT OF THE RESTRICTED BANDS	15.407(b)(2)	PK : -27	PK : 68.3				
27.1100	15.407(b)(3)						
	15.407(b)(4)	See note	2 (FCC 16-24)				

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

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

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



3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	Feb. 26,19	Feb. 25,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
Horn Antenna	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
Loop antenna	Daze	ZN30900A	0708	Oct. 23,18	Oct. 22, 19
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS-003 61	15433	Nov. 21, 18	Nov. 20, 19
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_ V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jul. 09,18	Jul. 08,19
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jul. 09,18	Jul. 08,19
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jul. 09,18	Jul. 08,19

NOTE:

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



3.1.4 TEST PROCEDURES

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

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

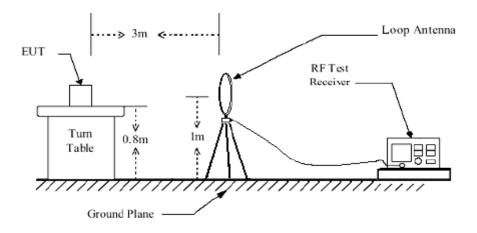
3.1.5 DEVIATION FROM TEST STANDARD

No deviation.

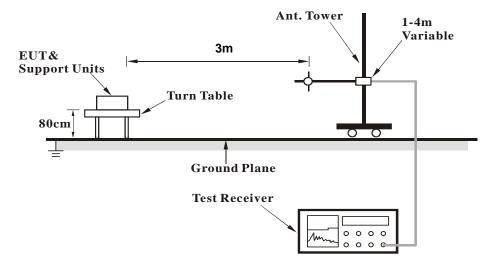


3.1.6 TEST SETUP

< Frequency Range below 30MHz>

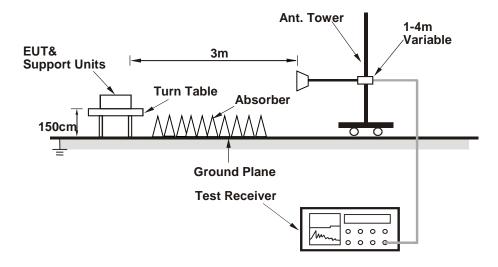


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



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:

9 KHz – 30 MHz data: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

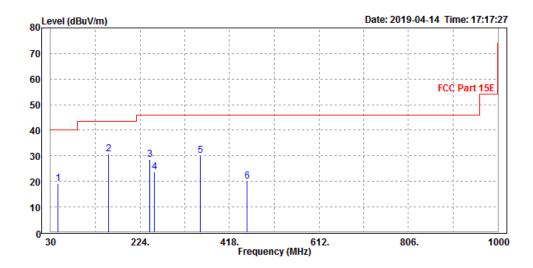
802.11n (40MHz)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Ougoi Pook (OP)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
46.28	19.06	47.57	40	-20.94	7.88	1.03	37.42	100	360	QP	
156.24	30.73	55.76	43.5	-12.77	9.82	1.91	36.76	100	360	QP	
245.31	28.57	50.49	46	-17.43	12.18	2.42	36.52	100	360	QP	
255.65	23.59	45.16	46	-22.41	12.47	2.48	36.52	100	360	QP	
355.21	30.17	48.51	46	-15.83	15.32	2.96	36.62	100	360	QP	
455.63	19.98	35.64	46	-26.02	17.87	3.32	36.85	100	360	QP	

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.



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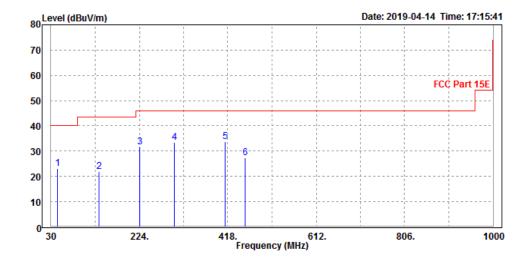
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CHANNEL	Channel 38	DETECTOR FUNCTION (Ougoi Dook (OD)
FREQUENCY RANGE	30MHz ~ 1GHz	DETECTOR FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
45.12	23.12	51.23	40	-16.88	8.31	1.02	37.44	100	90	QP	
135.24	21.85	49.11	43.5	-21.65	7.81	1.79	36.86	100	90	QP	
225.21	31.71	54.67	46	-14.29	11.26	2.31	36.53	100	90	QP	
301.21	33.42	54.14	46	-12.58	13.05	2.73	36.5	100	90	QP	
412.35	33.91	50.12	46	-12.09	17.35	3.19	36.75	100	90	QP	
455.21	27.49	43.16	46	-18.51	17.86	3.32	36.85	100	90	QP	

- 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.





BUREAU Test Report No.: RF190322W001-2

ABOVE 1GHz WORST-CASE DATA:

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

Band 1 802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: HO	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.69	51.36	54	-4.31	37.26	7.42	46.35	100	352	Average
5150	58.54	60.21	74	-15.46	37.26	7.42	46.35	100	352	Peak
5180	104.21	105.86			37.27	7.43	46.35	100	352	Average
5180	111.51	113.16			37.27	7.43	46.35	100	352	Peak
5350	49.75	51.24	54	-4.25	37.34	7.47	46.3	100	352	Average
5350	59.05	60.54	74	-14.95	37.34	7.47	46.3	100	352	Peak
		ANTEN	INA POLA	ARITY & T	TEST DIST	ANCE: \	VERTICA	L AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	48.45	50.12	54	-5.55	37.26	7.42	46.35	159	175	Average
5150	59.64	61.31	74	-14.36	37.26	7.42	46.35	159	175	Peak
5180	106.38	108.03			37.27	7.43	46.35	159	175	Average
5180	114.32	115.97			37.27	7.43	46.35	159	175	Peak
0.00		110.07			07.27					
5350	48.53	50.02	54	-5.47	37.34	7.47	46.3	159	175	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 5180MHz: Fundamental frequency.

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

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	DRIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.48	51.15	54	-4.52	37.26	7.42	46.35	100	325	Average
5150	58.46	60.13	74	-15.54	37.26	7.42	46.35	100	325	Peak
5200	100.71	102.34			37.28	7.43	46.34	100	325	Average
5200	111.58	113.21			37.28	7.43	46.34	100	325	Peak
5350	48.82	50.31	54	-5.18	37.34	7.47	46.3	100	325	Average
5350	58.18	59.67	74	-15.82	37.34	7.47	46.3	100	325	Peak
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.22	51.89	54	-3.78	37.26	7.42	46.35	150	185	Average
5150	60.68	62.35	74	-13.32	37.26	7.42	46.35	150	185	Peak
5200	102.89	104.52			37.28	7.43	46.34	150	185	Average
5200	114.49	116.12			37.28	7.43	46.34	150	185	Peak
5350	49.63	51.12	54	-4.37	37.34	7.47	46.3	150	185	Average
5350	58.87	60.36	74	-15.13	37.34	7.47	46.3	150	185	Peak

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5200MHz: Fundamental frequency.



CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.59	51.26	54	-4.41	37.26	7.42	46.35	112	315	Average
5150	59.89	61.56	74	-14.11	37.26	7.42	46.35	112	315	Peak
5240	101.66	103.25			37.3	7.44	46.33	112	315	Average
5240	113.09	114.68			37.3	7.44	46.33	112	315	Peak
5350	48.87	50.36	54	-5.13	37.34	7.47	46.3	112	315	Average
5350	60.03	61.52	74	-13.97	37.34	7.47	46.3	112	315	Peak
		ANTEN	INA POLA	ARITY & T	TEST DIST	ANCE: Y	VERTICA	L AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.71	51.38	54	-4.29	37.26	7.42	46.35	155	336	Average
5150	59.92	61.59	74	-14.08	37.26	7.42	46.35	155	336	Peak
5240	105.06	106.65			37.3	7.44	46.33	155	336	Average
5240	114.99	116.58			37.3	7.44	46.33	155	336	Peak
5350	49.66	51.15	54	-4.34	37.34	7.47	46.3	155	336	Average
5350	59.96	61.45	74	-14.04	37.34	7.47	46.3	155	336	Peak

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5240MHz: Fundamental frequency.



802.11n (20MHz)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.95	51.62	54	-4.05	37.26	7.42	46.35	100	316	Average
5150	60.92	62.59	74	-13.08	37.26	7.42	46.35	100	316	Peak
5180	102.81	104.46			37.27	7.43	46.35	100	316	Average
5180	112.25	113.9			37.27	7.43	46.35	100	316	Peak
5350	48.87	50.36	54	-5.13	37.34	7.47	46.3	100	316	Average
5350	60.03	61.52	74	-13.97	37.34	7.47	46.3	100	316	Peak
		ANTEN	NA POLA	ARITY & 1	TEST DIST	ANCE: V	VERTICA	L AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.01	51.68	54	-3.99	37.26	7.42	46.35	155	339	Average
5150	60.87	62.54	74	-13.13	37.26	7.42	46.35	155	339	Peak
5180	104.84	106.49			37.27	7.43	46.35	155	339	Average
5180	113.87	115.52			37.27	7.43	46.35	155	339	Peak
5350	49.72	51.21	54	-4.28	37.34	7.47	46.3	155	339	Average
5350	60.13	61.62	74	-13.87	37.34	7.47	46.3	155	339	Peak

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5180MHz: Fundamental frequency.

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

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.45	51.12	54	-4.55	37.26	7.42	46.35	100	321	Average
5150	59.56	61.23	74	-14.44	37.26	7.42	46.35	100	321	Peak
5200	100.93	102.56			37.28	7.43	46.34	100	321	Average
5200	111.99	113.62			37.28	7.43	46.34	100	321	Peak
5350	48.87	50.36	54	-5.13	37.34	7.47	46.3	100	321	Average
5350	60.05	61.54	74	-13.95	37.34	7.47	46.3	100	321	Peak
	-	ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.89	51.56	54	-4.11	37.26	7.42	46.35	145	345	Average
5150	60.31	61.98	74	-13.69	37.26	7.42	46.35	145	345	Peak
5200	102.89	104.52			37.28	7.43	46.34	145	345	Average
5200	114.01	115.64			37.28	7.43	46.34	145	345	Peak
5350	49.74	51.23	54	-4.26	37.34	7.47	46.3	145	345	Average
5350	61.06	62.55	74	-12.94	37.34	7.47	46.3	145	345	Peak

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5200MHz: Fundamental frequency.



CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Δ	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	49.98	51.65	54	-4.02	37.26	7.42	46.35	100	155	Average
5150	59.91	61.58	74	-14.09	37.26	7.42	46.35	100	155	Peak
5240	100.73	102.32			37.3	7.44	46.33	100	155	Average
5240	111.06	112.65			37.3	7.44	46.33	100	155	Peak
5350	49.07	50.56	54	-4.93	37.34	7.47	46.3	100	155	Average
5350	60.9	62.39	74	-13.1	37.34	7.47	46.3	100	155	Peak
	=	ANTEN	NA POLA	ARITY & T	TEST DIST	ANCE: V	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.46	52.13	54	-3.54	37.26	7.42	46.35	135	316	Average
5150	60.68	62.35	74	-13.32	37.26	7.42	46.35	135	316	Peak
5240	103.96	105.55			37.3	7.44	46.33	135	316	Average
5240	114.93	116.52			37.3	7.44	46.33	135	316	Peak
5350	50.13	51.62	54	-3.87	37.34	7.47	46.3	135	316	Average
5350	59.76	61.25	74	-14.24	37.34	7.47	46.3	135	316	Peak

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5240MHz: Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.64	53.62	54	-3.36	35.95	7.42	46.35	100	135	Average
5150	60.6	63.58	74	-13.4	35.95	7.42	46.35	100	135	Peak
5190	96.75	99.67			35.99	7.43	46.34	100	135	Average
5190	103.93	106.85			35.99	7.43	46.34	100	135	Peak
5350	47.45	50.13	54	-6.55	36.15	7.47	46.3	100	135	Average
5350	58.56	61.24	74	-15.44	36.15	7.47	46.3	100	135	Peak
	-	ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.98	54.65	54	-1.02	37.26	7.42	46.35	165	336	Average
5150	62.84	64.51	74	-11.16	37.26	7.42	46.35	165	336	Peak
5190	99.61	101.24			37.28	7.43	46.34	165	336	Average
5190	107.34	108.97			37.28	7.43	46.34	165	336	Peak
5350	48.85	50.34	54	-5.15	37.34	7.47	46.3	165	336	Average
5350	59.74	61.23	74	-14.26	37.34	7.47	46.3	165	336	Peak

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5190MHz: Fundamental frequency.

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CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.55	52.22	54	-3.45	37.26	7.42	46.35	105	320	Average
5150	64.51	66.18	74	-9.49	37.26	7.42	46.35	105	320	Peak
5230	98.63	100.23			37.29	7.44	46.33	105	320	Average
5230	108.05	109.65			37.29	7.44	46.33	105	320	Peak
5350	51.15	52.64	54	-2.85	37.34	7.47	46.3	105	320	Average
5350	63.85	65.34	74	-10.15	37.34	7.47	46.3	105	320	Peak
		ANTEN	NA POLA	ARITY & T	EST DIST	ANCE: \	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.88	54.55	54	-1.12	37.26	7.42	46.35	100	127	Average
5150	63.4	65.07	74	-10.6	37.26	7.42	46.35	100	127	Peak
5230	103.65	105.25			37.29	7.44	46.33	100	127	Average
5230	110.26	111.86			37.29	7.44	46.33	100	127	Peak
5350	52.87	54.36	54	-1.13	37.34	7.47	46.3	100	127	Average
5350	64.29	65.78	74	-9.71	37.34	7.47	46.3	100	127	Peak

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5230MHz: Fundamental frequency.



802.11ac (80MHz)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE		DETECTOR FUNCTION	Average (AV)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	50.04	53.02	54	-3.96	35.95	7.42	46.35	155	312	Average
5150	61.17	64.15	74	-12.83	35.95	7.42	46.35	155	312	Peak
5210	96.35	99.24			36.01	7.44	46.34	155	312	Average
5210	104.23	107.12			36.01	7.44	46.34	155	312	Peak
5350	49.43	52.11	54	-4.57	36.15	7.47	46.3	155	312	Average
5350	50.8	53.48	74	-23.2	36.15	7.47	46.3	155	312	Peak
		ANTEN	NA POLA	ARITY & 1	TEST DIST	ANCE: Y	VERTICA	L AT 3 M	-	
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	52.84	54.51	54	-1.16	37.26	7.42	46.35	100	135	Average
5150	63.22	64.89	74	-10.78	37.26	7.42	46.35	100	135	Peak
5210	99.62	101.24			37.28	7.44	46.34	100	135	Average
5210	106.91	108.53			37.28	7.44	46.34	100	135	Peak
5350	50.4	51.89	54	-3.6	37.34	7.47	46.3	100	135	Average
5350	61.19	62.68	74	-12.81	37.34	7.47	46.3	100	135	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 5210MHz: Fundamental frequency.

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Band 4

802.11a

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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK			
5745	98.71	99.59			37.55	7.75	46.18	100	311	Average			
5745	109.33	110.21			37.55	7.75	46.18	100	311	Peak			
		ANTEN	NA POL	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M	3				
FREQ. (MHz)	THE TOTAL PROPERTY OF THE PROP									REMARK			
5745	103.65	104.53			37.55	7.75	46.18	100	125	Average			
5745	111.57	112.45			37.55	7.75	46.18	100	125	Peak			

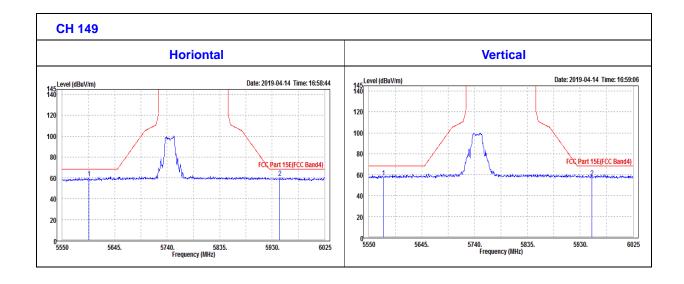
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5745MHz: Fundamental frequency.



OOBE DATA

802.11a

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5597.98	59.8	60.96	68.3	-8.5	37.46	7.6	46.22	200	360	Peak		
5943.78	60.29	60.8	68.3	-8.01	37.67	7.95	46.13	200	360	Peak		
		ANTEN	NA POLA	ARITY & T	EST DIST	ANCE: \	VERTICA	L AT 3 M				
FREQ. (MHz)	THE STATE OF THE S											
5575.65	57.21	58.41	68.3	-11.09	37.45	7.58	46.23	100	360	Peak		
5950.9	57.57	58.06	68.3	-10.73	37.67	7.96	46.12	100	360	Peak		





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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5785	101.24	102.05			37.57	7.79	46.17	100	172	Average		
5785	109.44	110.25			37.57	7.79	46.17	100	172	Peak		
		ANTEN	NA POLA	ARITY & T	TEST DIST	ANCE: \	VERTICA	L AT 3 M				
FREQ. (MHz)	I LEVEL LIEVEL I I FACTOR LLOSS LEACTOR I HEIGHT LANGLE TREMARK											
5785	100.75	102.46			36.67	7.79	46.17	152	323	Average		
5785	110.53	112.24			36.67	7.79	46.17	152	323	Peak		

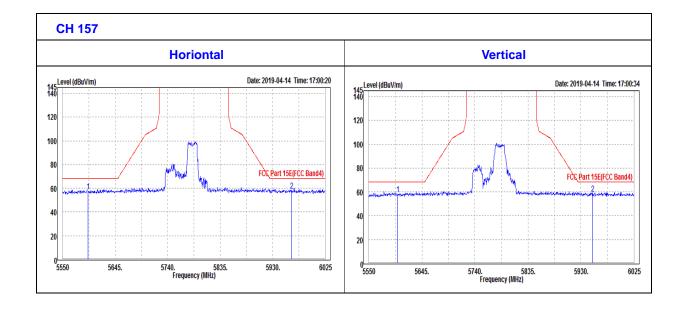
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5785MHz: Fundamental frequency.



OOBE DATA

802.11a

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5596.08	57.55	58.71	68.3	-10.75	37.46	7.6	46.22	100	360	Peak		
5964.68	58.03	58.5	68.3	-10.27	37.68	7.97	46.12	100	360	Peak		
		ANTEN	NA POL	ARITY & T	EST DIST	ANCE: \	VERTICA	L AT 3 M				
FREQ. (MHz)	THE STATE OF THE S											
5601.78	57.62	58.78	68.3	-10.68	37.46	7.6	46.22	100	0	Peak		
5951.38	58.25	58.74	68.3	-10.05	37.67	7.96	46.12	100	0	Peak		





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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5825	100.59	101.32			37.6	7.83	46.16	100	305	Average		
5825	109.84	110.57			37.6	7.83	46.16	100	305	Peak		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5825	103.85	104.58			37.6	7.83	46.16	104	68	Average		
5825	112.02	112.75			37.6	7.83	46.16	104	68	Peak		

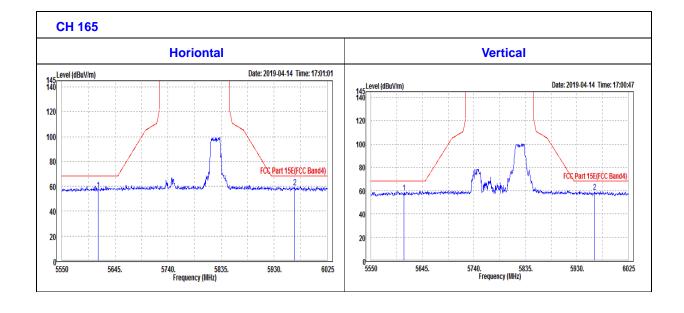
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5825MHz: Fundamental frequency.



OOBE DATA

802.11a

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5614.6	56.97	58.1	68.3	-11.33	37.47	7.62	46.22	100	0	Peak		
5967.05	58.92	59.38	68.3	-9.38	37.68	7.98	46.12	100	0	Peak		
		ANTEN	NA POL	ARITY & T	FEST DIST	ANCE: \	VERTICA	L AT 3 M				
FREQ. (MHz)	THE TOTAL PROPERTY OF THE PROP											
5610.8	58.27	59.41	68.3	-10.03	37.47	7.61	46.22	100	360	Peak		
5962.78	59.22	59.69	68.3	-9.08	37.68	7.97	46.12	100	360	Peak		





802.11n (20MHz)

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

	A	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: HO	ORIZONT	AL AT 3 M			
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
5745	100.66	101.54			37.55	7.75	46.18	100	342	Average	
5745	110.53	111.41			37.55	7.75	46.18	100	342	Peak	
		ANTEN	NA POLA	ARITY & T	TEST DIST	ANCE: \	/ERTICA	L AT 3 M			
FREQ. (MHz)	I LEVEL LIEVELL I LEACTOR LINGS LEACTOR LHEIGHT LANGLE IREMARK I										
5745	102.25	103.13			37.55	7.75	46.18	100	23	Average	
5745	111.79	112.67			37.55	7.75	46.18	100	23	Peak	

REMARKS:

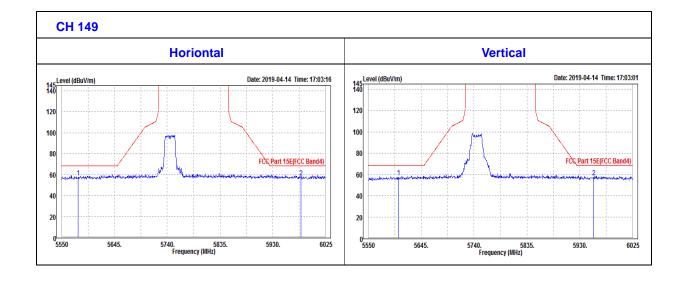
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 5745MHz: Fundamental frequency.



OOBE DATA

802.11n (20MHZ)

	A	NTENN	A POLAF	RITY & TE	ST DISTAI	NCE: HO	DRIZONT	AL AT 3 M			
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
5578.98	57.25	58.45	68.3	-11.05	37.45	7.58	46.23	100	0	Peak	
5980.83	57.36	57.8	68.3	-10.94	37.69	7.99	46.12	100	0	Peak	
		ANTEN	NA POLA	ARITY & T	TEST DIST	ANCE: \	/ERTICA	L AT 3 M			
FREQ. (MHz)	I LEVEL LIEVEL I LEACTOR LLOSS LEACTOR LHEIGHT LANGLE LREMARK										
5604.15	57.08	59.13	68.3	-11.22	36.56	7.61	46.22	100	360	Peak	
5955.18	57.15	58.54	68.3	-11.15	36.77	7.96	46.12	100	360	Peak	





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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5785	99.05	99.86			37.57	7.79	46.17	100	177	Average		
5785	111.61	112.42			37.57	7.79	46.17	100	177	Peak		
		ANTEN	NA POLA	ARITY & T	TEST DIST	ANCE: \	VERTICA	L AT 3 M				
FREQ. (MHz)	I LEVEL LIEVEL I I FACTOR LLOSS LEACTOR I HEIGHT LANGUE TREMARK L											
5785	100.64	102.35			36.67	7.79	46.17	148	315	Average		
5785	111.91	113.62			36.67	7.79	46.17	148	315	Peak		

REMARKS:

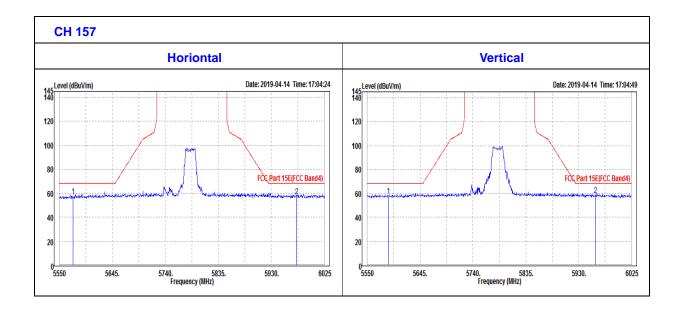
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5785MHz: Fundamental frequency.



OOBE DATA

802.11n (20MHZ)

	A	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: HO	DRIZONT	AL AT 3 M			
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
5574.23	57.3	58.51	68.3	-11	37.44	7.58	46.23	100	0	Peak	
5975.13	57.27	57.72	68.3	-11.03	37.69	7.98	46.12	100	0	Peak	
		ANTEN	NA POLA	ARITY & T	EST DIST	ANCE: \	/ERTICA	L AT 3 M			
FREQ. (MHz)	THE STATE OF THE S										
5587.53	57.9	59.09	68.3	-10.4	37.45	7.59	46.23	100	360	Peak	
5959.93	58.33	58.8	68.3	-9.97	37.68	7.97	46.12	100	360	Peak	





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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK		
5825	101.72	102.45			37.6	7.83	46.16	100	304	Average		
5825	110.39	111.12			37.6	7.83	46.16	100	304	Peak		
		ANTEN	NA POLA	ARITY & T	TEST DIST	ANCE: \	VERTICA	L AT 3 M				
FREQ. (MHz)	I LEVEL LLEVEL I I FACTOR LLOSS LEACTOR I HEIGHT LANGLE TREMARKT											
5825	103.63	104.36			37.6	7.83	46.16	108	79	Average		
5825	112.84	113.57			37.6	7.83	46.16	108	79	Peak		

REMARKS:

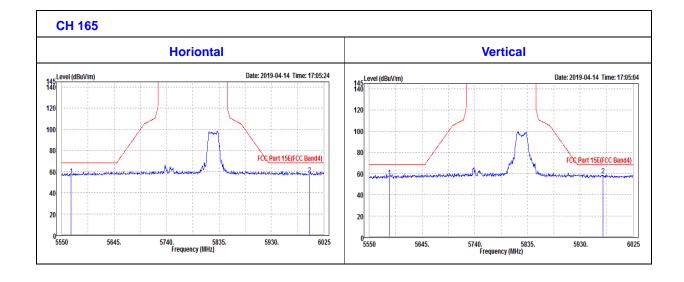
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5825MHz: Fundamental frequency.



OOBE DATA

802.11n (20MHZ)

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: HO	ORIZONT	AL AT 3 M			
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
5566.63	56.31	57.53	68.3	-11.99	37.44	7.57	46.23	100	360	Peak	
5998.88	57.49	57.89	68.3	-10.81	37.7	8.01	46.11	100	360	Peak	
		ANTEN	NA POL	ARITY & T	FEST DIST	ANCE: \	VERTICA	L AT 3 M			
FREQ. (MHz)	THE TOTAL PROPERTY OF THE PROP										
5586.1	56.91	58.1	68.3	-11.39	37.45	7.59	46.23	100	0	Peak	
5970.85	58.55	59.01	68.3	-9.75	37.68	7.98	46.12	100	0	Peak	





802.11n (40MHz)

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

	Α	NTENN	A POLAF	RITY & TE	ST DISTA	NCE: H	ORIZONT	AL AT 3 M			
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK	
5755	103.39	104.26			37.55	7.76	46.18	100	309	Average	
5755	113.34	114.21			37.55	7.76	46.18	100	309	Peak	
		ANTEN	NA POL	ARITY & T	TEST DIST	ANCE: \	VERTICA	L AT 3 M			
FREQ. (MHz)	I LEVEL LLEVEL I I FACTOR LLOSS LEACTOR I HEIGHT LANGLE LREMARK I										
5755	103.65	105.42			36.65	7.76	46.18	183	321	Average	
5755	113.9	115.67			36.65	7.76	46.18	183	321	Peak	

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 5755MHz: Fundamental frequency.

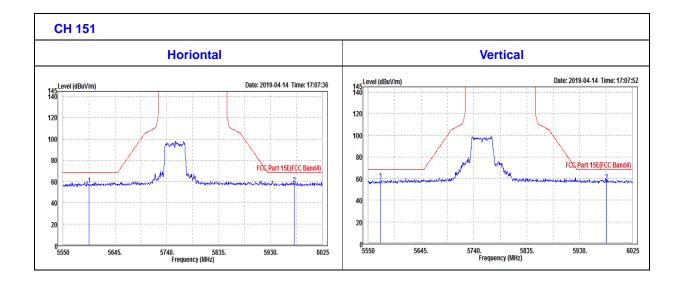
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802.11n (40MHZ)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5597.5	56.62	57.78	68.3	-11.68	37.46	7.6	46.22	100	0	5597.5
5973.23	57.24	57.7	68.3	-11.06	37.68	7.98	46.12	100	0	5973.23
		ANTEN	NA POLA	ARITY & 1	EST DIST	ANCE: \	VERTICA	L AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5571.85	58.67	59.89	68.3	-9.63	37.44	7.57	46.23	100	360	Peak
5978.45	57.48	57.92	68.3	-10.82	37.69	7.99	46.12	100	360	Peak





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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	103.73	104.52			37.58	7.8	46.17	100	308	Average
5795	113.83	114.62			37.58	7.8	46.17	100	308	Peak
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	104.45	105.24			37.58	7.8	46.17	175	321	Average
						7.8	46.17	175	321	Peak

REMARKS:

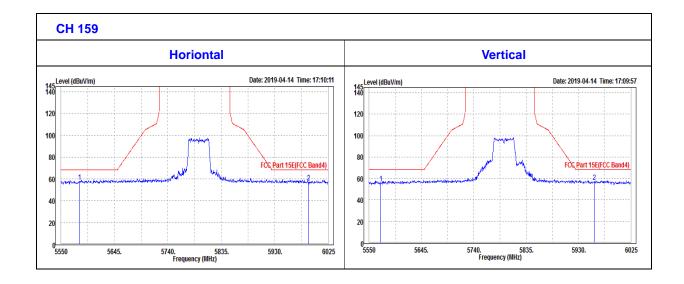
- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level Limit value.
- 2. 5795MHz: Fundamental frequency.



OOBE DATA

802.11n (40MHZ)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5582.3	57.09	58.29	68.3	-11.21	37.45	7.58	46.23	100	360	Peak
5989.85	56.88	57.3	68.3	-11.42	37.69	8	46.11	100	360	Peak
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5570.9	55.5	57.62	68.3	-12.8	36.54	7.57	46.23	100	0	Peak
5958.5	57.01	58.38	68.3	-11.29	36.78	7.97	46.12	100	0	Peak





802.11ac (80MHz)

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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	103.53	104.35			37.57	7.78	46.17	100	308	Average
5775	113.43	114.25			37.57	7.78	46.17	100	308	Peak
		ANTEN	NA POLA	ARITY & 1	TEST DIST	ANCE: \	VERTICA	L AT 3 M		
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	103.96	105.68			36.67	7.78	46.17	162	323	Average
5775	113.48	115.2			36.67	7.78	46.17	162	323	Peak

REMARKS:

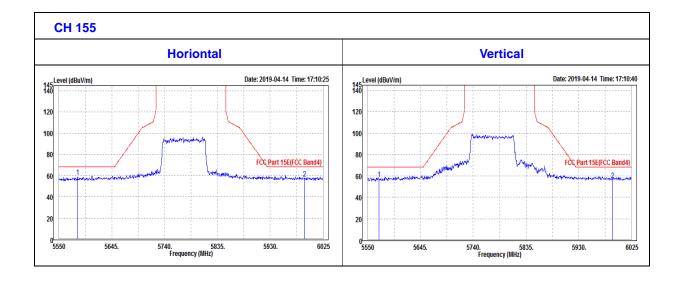
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 5775MHz: Fundamental frequency.



OOBE DATA

802.11ac (80MHZ)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5583.73	59.26	60.45	68.3	-9.04	37.45	7.59	46.23	100	0	Peak
5991.75	57.16	57.57	68.3	-11.14	37.7	8	46.11	100	0	Peak
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5570.43	57.45	58.67	68.3	-10.85	37.44	7.57	46.23	100	360	Peak
5990.8	56.45	56.87	68.3	-11.85	37.69	8	46.11	100	360	Peak



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.
- 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	ESR3	101900	Feb. 26,19	Feb. 25, 20
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,19	Feb. 25, 20

NOTE:

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

3.2.3 TEST PROCEDURES

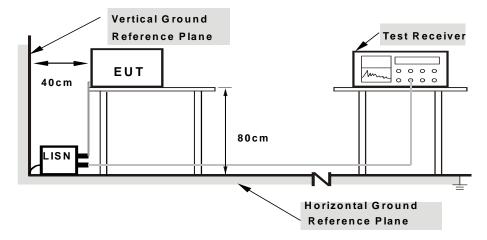
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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) was 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:

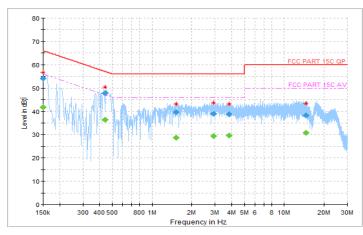
Frequency Range	1150KH7 ~ 30MH7		Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120\/ac 60Hz	Environmental Conditions	24deg. C, 55RH
Tested By	John Wen	TEST DATE	2019/03/27

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	54.08		66.00	-11.92	L	ON	9.9
0.150000		41.67	56.00	-14.33	L	ON	9.9
0.444000	47.91		56.99	-9.08	L	ON	10.0
0.444000		36.35	46.99	-10.64	L	ON	10.0
1.520000	39.76		56.00	-16.24	L	ON	10.1
1.520000		28.68	46.00	-17.32	L	ON	10.1
2.908000	38.89		56.00	-17.11	L	ON	10.2
2.908000		29.36	46.00	-16.64	L	ON	10.2
3.816000	38.72		56.00	-17.28	L	ON	10.2
3.816000		29.69	46.00	-16.31	L	ON	10.2
14.652000		30.84	50.00	-19.16	L	ON	10.5
14.652000	38.17		60.00	-21.83	L	ON	10.5

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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





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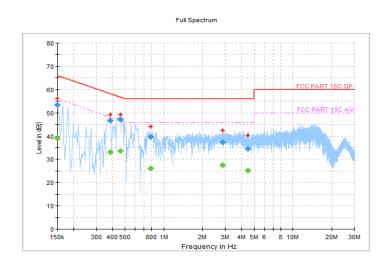


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	24deg. C, 55RH
Tested By	John Wen	TEST DATE	2019/03/27

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000		38.99	56.00	-17.01	N	ON	9.9
0.150000	53.52		66.00	-12.48	N	ON	9.9
0.384000		33.16	48.19	-15.03	N	ON	9.9
0.384000	46.69		58.19	-11.50	N	ON	9.9
0.460000		33.62	46.69	-13.08	N	ON	9.9
0.460000	47.00		56.69	-9.69	N	ON	9.9
0.796000		26.19	46.00	-19.81	N	ON	9.9
0.796000	39.60		56.00	-16.40	N	ON	9.9
2.864000		27.53	46.00	-18.47	N	ON	10.1
2.864000	37.30		56.00	-18.70	N	ON	10.1
4.464000		25.23	46.00	-20.77	N	ON	10.1
4.464000	34.50		56.00	-21.50	N	ON	10.1

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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



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3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

Operation Band	EUT Category		LIMIT
		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)
U-NII-1		Fixed point-to-point Access Point	1 Watt (30 dBm)
	V	Indoor Access Point	1 Watt (30 dBm)
		Client devices	250mW (24 dBm)
U-NII-2A		-	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	-		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3			1 Watt (30 dBm)

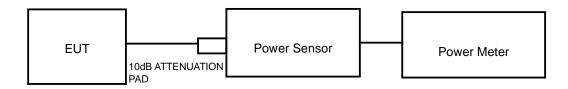
NOTE: Where B is the 26dB emission bandwidth in MHz.



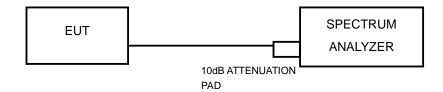
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

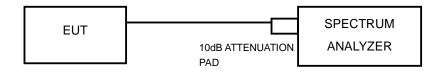
802.11a, 802.11n (20MHz), 802.11n (40MHz) TEST CONFIGURATION



11ac TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 26,19	Feb. 25, 20
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 26,19	Feb. 25, 20
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510332	Feb. 26,19	Feb. 25, 20
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 26,19	Feb. 25, 20

NOTE:

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



3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

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

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

For 802.11ac (80MHz)

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

FOR 99 PERCENT OCCUPIED BANDWIDTH

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

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

FOR 26dB BANDWIDTH

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

FOR 6dB BANDWIDTH

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

Page 57 of 77



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	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	16.28	42.462	30	PASS
40	5200	16.19	41.591	30	PASS
48	5240	16.30	42.658	30	PASS
149	5745	16.40	43.652	30	PASS
157	5785	16.34	43.053	30	PASS
165	5825	16.18	41.495	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY	AVERAGE PO	OWER (dBm)	TOTAL POWER	TOTAL POWER	POWER LIMIT	PASS/FAIL
CHANNEL	(MHz)	CHAIN0	CHAIN1	(dBm)	(mW)	(dBm)	1 A33/1 AIL
36	5180	16.10	16.10	19.11	81.470	30	PASS
44	5220	16.07	16.00	19.05	80.353	30	PASS
48	5240	16.22	16.01	19.13	81.846	30	PASS
149	5745	16.15	16.19	19.31	85.310	30	PASS
157	5785	16.13	16.32	19.34	85.901	30	PASS
165	5825	16.04	16.10	19.15	82.224	30	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY	TAVEINAGE I OWEN (UDIII)		TOTAL POWER	TOTAL POWER	POWER LIMIT	PASS/FAIL
CHANNEL	(MHz)	CHAIN0	CHAIN1	(dBm)	(mW)	(dBm)	I ASS/I AIL
38	5190	6.80	6.62	9.72	9.376	30	PASS
46	5230	12.26	12.10	15.19	33.037	30	PASS
151	5755	16.36	16.09	19.24	83.946	30	PASS
159	5795	16.39	16.22	19.32	85.507	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY	AVERAGE POWER(dBm)		TOTAL POWER	TOTAL POWER	POWER LIMIT	PASS/FAIL
CHARREL	(MHz)	CHAIN0	CHAIN1	(dBm)	(mW)	(dBm)	1 AGON AIL
42	5210	6.18	6.89	9.56	9.036	30	PASS
155	5775	16.20	16.12	19.17	82.604	30	PASS

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

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	16.38	20.02	PASS
40	5200	16.50	19.85	PASS
48	5240	16.38	19.68	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH (MHz)	PASS/FAIL
149	5745	16.44	15.98	PASS
157	5785	16.50	16.01	PASS
165	5825	16.38	16.34	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	17.64	20.44	PASS
40	5200	17.70	20.46	PASS
48	5240	17.70	20.41	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH (MHz)	PASS/FAIL
149	5745	17.58	16.60	PASS
157	5785	17.58	16.62	PASS
165	5825	17.58	16.93	PASS



802.11n (40MHz)

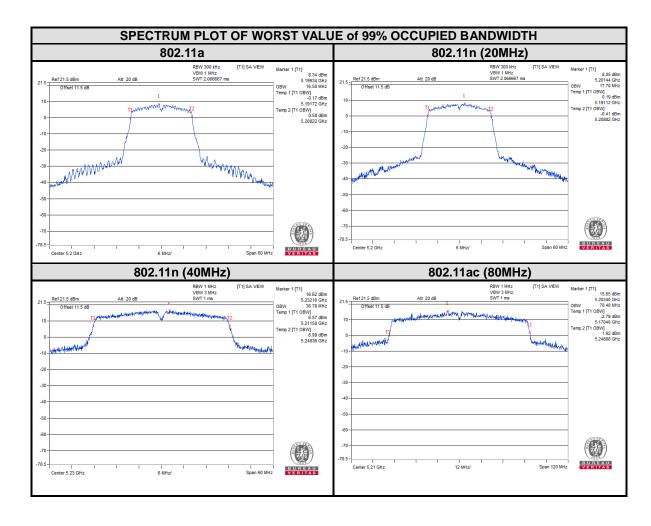
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
38	5190	36.60	71.34	PASS
46	5230	36.78	72.77	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH (MHz)	PASS/FAIL
151	5755	36.18	35.14	PASS
159	5795	36.30	35.14	PASS

802.11ac (80MHz)

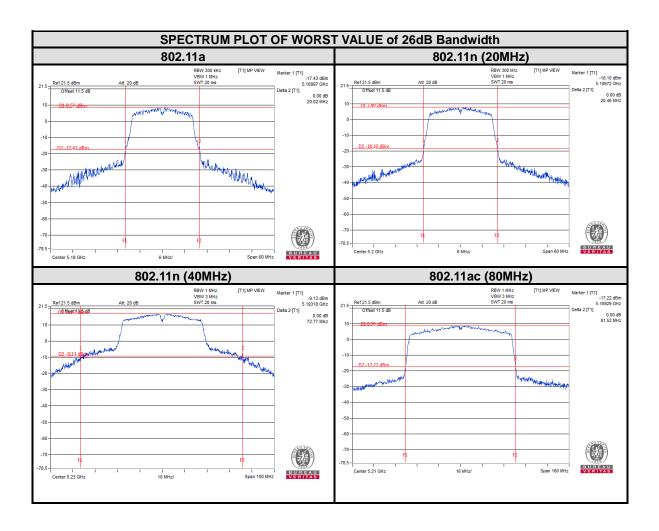
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
42	5210	78.48	81.52	PASS
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH (MHz)	PASS/FAIL
155	5775	75.60	75.12	PASS



For U-NII-1:

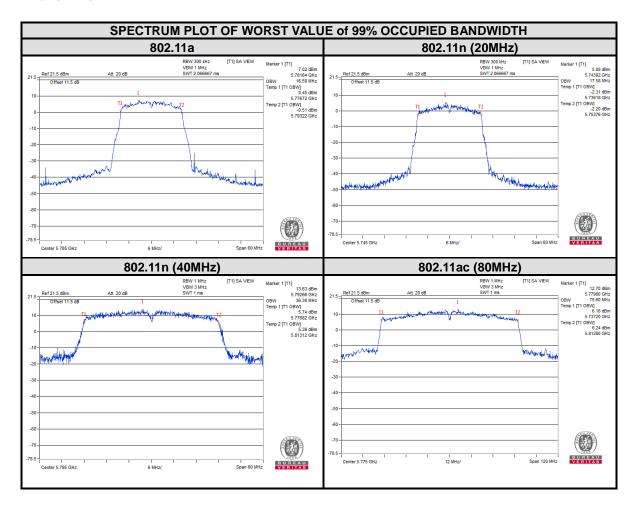






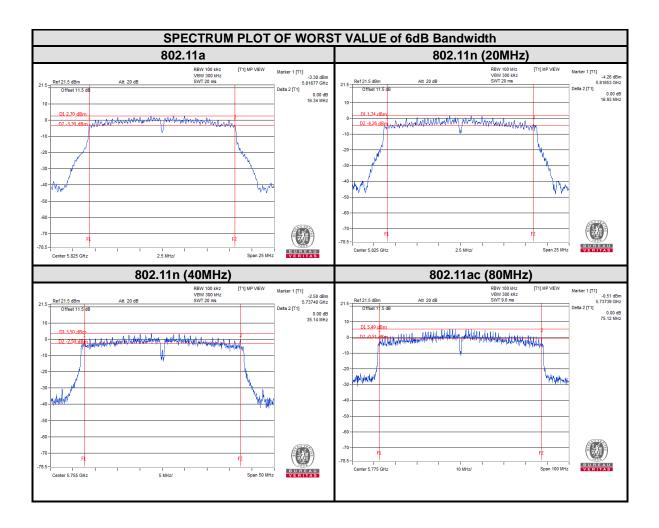


For U-NII-3:



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3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
		Outdoor Access Point	
U-NII-1		Fixed point-to-point Access Point	17dBm/ MHz
U-MII-I	√	Indoor Access Point	
		Client devices	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.

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3.4.4 TEST PROCEDURES

Using method SA-2

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

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.4.7 TEST RESULTS

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

802.11a

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass/Fail
36	5180	4.98	0.17	5.15	17	PASS
40	5200	4.62	0.17	4.79	17	PASS
48	5240	5.01	0.17	5.18	17	PASS

802.11n (20MHz)

Channel	Frequency (MHz)	Duty	w/o Factor /MHz) Chain 1	Total PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	Maximum Limit (dBm/MHz)	Pass/Fail
36	5180	4.69	5.69	8.23	0.23	8.46	17	PASS
40	5200	4.96	5.73	8.37	0.23	8.60	17	PASS
48	5240	5.58	6.13	8.87	0.23	9.10	17	PASS

802.11n (40MHz)

Channel	Frequency (MHz)	'I (ADm/MU=\ I		Total PSD w/o Duty Factor	Duty Factor	PSD with Duty Factor	Maximum Limit	Pass/Fail
	()	Chain 0	Chain 1	(dBm/MHz)		(dBm/MHz)	(dBm/MHz)	
38	5190	6.57	1.91	7.85	0.35	8.20	17	PASS
46	5230	7.57	2.51	8.75	0.35	9.10	17	PASS

802.11ac (80MHz)

Channel	Frequency (MHz)	(ABM/MU3)		Total PSD w/o Duty Factor	Duty Factor	PSD with Duty Factor	Maximum Limit	Pass/Fail
	(Chain 0	Chain 1	(dBm/MHz)		(dBm/MHz)	(dBm/MHz)	
42	5210	5.52	5.96	8.76	0.65	9.41	17	PASS



For U-NII-3:

802.11a

Channel	Frequency (MHz)	PSD w/o Duty Factor (dBm/MHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
149	5745	-0.47	-3.48	0.17	-3.31	30	PASS
157	5785	-0.48	-3.49	0.17	-3.32	30	PASS
165	5825	-1.08	-4.09	0.17	-3.92	30	PASS

802.11n (20MHz)

Channel	Frequency (MHz)	(MHz) (dBm/500kHz)		Total PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor	Limit (dBm/500kHz)	Pass /Fail
,	, ,	Chain 0	Chain 1	(aBm/500KHZ)		(dBm/500kHz)	,	
149	5745	-5.34	-5.52	-2.42	0.23	-2.19	30	PASS
157	5785	-5.14	-5.50	-2.31	0.23	-2.08	30	PASS
165	5825	-5.22	-5.70	-2.44	0.23	-2.21	30	PASS

802.11n (40MHz)

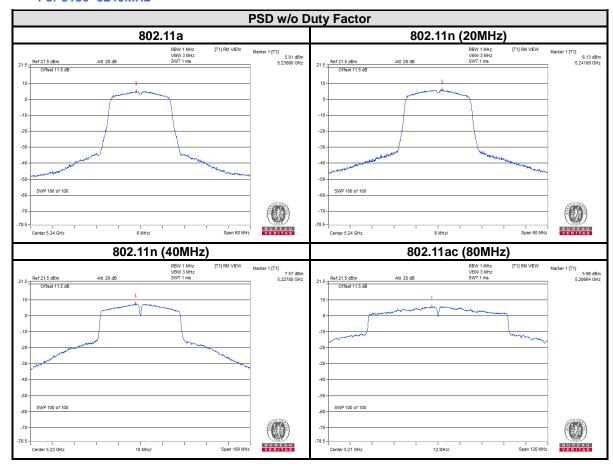
Channel	Frequency (MHz)	(dBm/500kHz)		Total PSD w/o	Duty Factor	PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	(dBm/500kHz)		(abm/souknz)		
151	5755	-5.37	-9.48	-3.95	0.35	-3.60	30	PASS
159	5795	-2.82	-8.97	-1.88	0.35	-1.53	30	PASS

802.11ac (80MHz)

Channel	Frequency (MHz)	(dBm/500kHz)		Total PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		Chain 0	Chain 1	(dbiii/300kHz)		(UBIII/300KHZ)		
155	5775	-5.19	-3.02	-0.96	0.65	-0.31	30	PASS



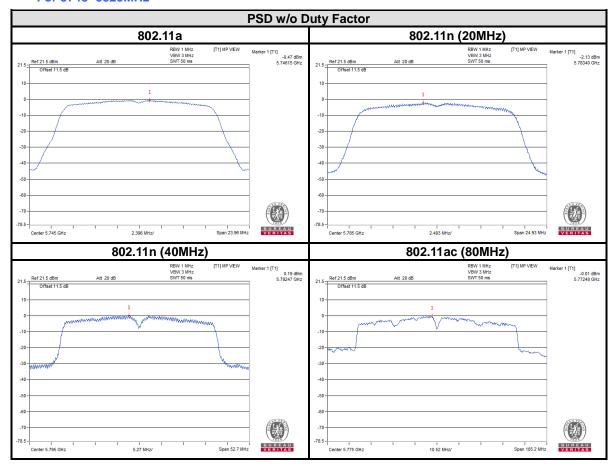
For 5180~5240MHz



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For 5745~5825MHz

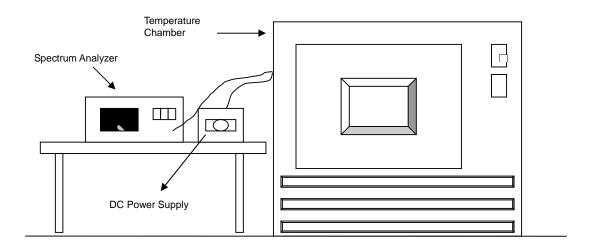


3.5 FREQUENCY STABILITY

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 DC 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

			FREQ	UEMCY STA	ABILITY VER	SUS TEMP.				
			OP	ERATING FR	REQUENCY:	5180MHz				
	Power	0 MIN	NUTE	2 MIN	IUTES	5 MIN	IUTES	10 MI	NUTE	RESULT
TEMP. (℃)	Supply (Vdc)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	
50	120	5180.0297	5.734	5180.0197	3.803	5180.026	5.019	5180.0287	5.541	PASS
40	120	5179.9882	-2.278	5179.9908	-1.776	5179.9811	-3.649	5179.9823	-3.417	PASS
30	120	5179.9819	-3.494	5179.9808	-3.707	5179.9863	-2.645	5179.9882	-2.278	PASS
20	120	5179.9777	-4.305	5179.9721	-5.386	5179.9751	-4.807	5179.9753	-4.768	PASS
10	120	5180.0172	3.320	5180.0133	2.568	5180.0183	3.533	5180.0151	2.915	PASS
0	120	5179.9824	-3.398	5179.9846	-2.973	5179.9823	-3.417	5179.9855	-2.799	PASS
-10	120	5179.9903	-1.873	5179.9955	-0.869	5179.9893	-2.066	5179.9935	-1.255	PASS
-20	120	5179.9949	-0.985	5179.9968	-0.618	5179.995	-0.965	5179.9948	-1.004	PASS
-30	120	5180.0092	1.776	5180.0161	3.108	5180.0146	2.819	5180.0151	2.915	PASS

			FREQU	EMCY STAB	ILITY VERS	US VOLTAG	E				
OPERATING FREQUENCY: 5180MHz											
TEMP PO	Dawar	0 MII	NUTE	2 MINUTE 5 MINUTE 10 MINUTE		RESULT					
TEMP. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)		
	138	5179.9787	-4.112	5179.9728	-5.251	5179.976	-4.633	5179.9739	-5.039	PASS	
20	120	5179.9777	-4.305	5179.9721	-5.386	5179.9751	-4.807	5179.9753	-4.768	PASS	
	102	5179.9794	-3.977	5179.9729	-5.232	5179.9766	-4.517	5179.9741	-5.000	PASS	



			FREQ	UEMCY STA	ABILITY VER	SUS TEMP.				
			OP	ERATING FR	REQUENCY:	5825MHz				
	Power	0 MINUTE		2 MINUTES		5 MINUTES		10 MI	NUTE	RESULT
TEMP. (℃)	Supply (Vdc)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	
50	120	5825.0171	2.936	5825.0162	2.781	5825.013	2.232	5825.0169	2.901	PASS
40	120	5824.9854	-2.506	5824.9811	-3.245	5824.9817	-3.142	5824.9812	-3.227	PASS
30	120	5825.0015	0.258	5825.0013	0.223	5824.9996	-0.069	5824.9995	-0.086	PASS
20	120	5824.9767	-4.000	5824.9824	-3.021	5824.9835	-2.833	5824.983	-2.918	PASS
10	120	5824.9792	-3.571	5824.9781	-3.760	5824.9831	-2.901	5824.9764	-4.052	PASS
0	120	5824.9754	-4.223	5824.9759	-4.137	5824.9693	-5.270	5824.9773	-3.897	PASS
-10	120	5825.0226	3.880	5825.0231	3.966	5825.0171	2.936	5825.0202	3.468	PASS
-20	120	5825.022	3.777	5825.0202	3.468	5825.0244	4.189	5825.0224	3.845	PASS
-30	120	5824.996	-0.687	5824.9955	-0.773	5824.9982	-0.309	5824.9949	-0.876	PASS

	FREQUEMCY STABILITY VERSUS VOLTAGE											
OPERATING FREQUENCY: 5180MHz												
	Dawar	0 MII	NUTE	2 MII	NUTE	5 MIN	NUTE	10 MI	NUTE	RESULT		
TEMP. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)			
	138	5824.9777	-3.828	5824.9824	-3.021	5824.9846	-2.644	5824.9825	-3.004	PASS		
20	120	5824.9767	-4.000	5824.9824	-3.021	5824.9835	-2.833	5824.983	-2.918	PASS		
	102	5824.9763	-4.069	5824.9836	-2.815	5824.9833	-2.867	5824.9823	-3.039	PASS		



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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

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

---END---