ACCREDITED
Certificate # 3939.01

FCC TEST REPORT

(Part 15, Subpart E)

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
Product:	Multi-band GSM/WCDMA/LTE phone with Bluetooth&WLAN
Brand Name:	NOKIA
Model Name:	TA-1401
FCC ID:	2AJOTTA-1401
Date of tests:	Nov. 25, 2021 ~ Dec. 17, 2021

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

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

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

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Simon Date: Dec. 17, 2021	Luke Lu Date: Dec. 17, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P21100018-4RF03	Original release	Dec. 17, 2021

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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

Note: Except the data of RSE, other data please refer to APPENDIX.

1.1 MEASUREMENT UNCERTAINTY

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

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

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Multi-band GSM/WCDMA/LTE phone with Bluetooth&WLAN
BRAND NAME	NOKIA
MODEL NAME	TA-1401
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.85Vdc (Li-ion, battery)
MODULATION	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, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5700MHz: 11 for 802.11a, 802.11n, 802.11ac(20MHz) 5 for 802.11n, 802.11ac (40MHz) 2 for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz)
AVERAGE POWER	62.66mW for 5180 ~ 5240MHz 67.61mW for 5260 ~ 5320MHz 69.98mW for 5500 ~ 5700MHz 74.64mW for 5745 ~ 5825MHz
ANTENNA TYPE	Fixed Internal Antenna
ANTENNA GAIN	-0.6 dBi for 5180 ~ 5240MHz -0.6 dBi for 5260 ~ 5320MHz -0.6 dBi for 5500 ~ 5720MHz -0.6 dBi for 5745 ~ 5825MHz
HW VERSION	19655-1-11M12
SW VERSION	00WW_0_010
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB1 cable: unshielded without ferrite, 1.0meter USB2 cable: unshielded without ferrite, 1.0meter USB3 cable: unshielded without ferrite, 1.0meter

	Earphone1: non-shielded cable, with w/o ferrite core, 1.2 meter Earphone2: non-shielded cable, with w/o ferrite core, 1.2 meter

NOTE:

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

2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

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

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

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	Nokia	Hunan Gaoyuan Battery Co., Ltd.	WT341	Capacity：3.85 Vdc, 4900mAh
AC Adapter 1	Nokia	ShenZhenBaiJunDa ElectronicCO.,LTD.	AD-010U	I/P: 100-240Vac, 0.35A, O/P: 5.0Vdc, 2.0A
AC Adapter 2	Nokia	SHENZHEN TIANYIN ELECTRONICS CO., LTD.	CH-21U	I/P: 100-240Vac, 0.3A, O/P: 5.0Vdc, 2.0A
AC Adapter 3	Nokia	YuTong Electronics(HuiZhou) Co.,Ltd	PA-US5V2A-03 6	I/P: 100-240Vac, 0.5A, O/P: 5.0Vdc, 2.0A
AC Adapter 4	Nokia	Dongguan Aohai Technology Co., Ltd.	A829US	I/P: 100 - 240Vac, 0.5A, O/P:5.0 Vdc,3A/9.0 Vdc, 2.2 3A/12.0 Vdc,1.67A
Earphone 1	Nokia	NEW LEADER INDUSTRY CO.,LTD	HS-34	Signal Line, 1.2meter
Earphone 2	Nokia	Guangdong Wivtak Technology Co., Ltd.	HS-34	Signal Line, 1.2meter

USB Cable 1	Nokia	HUIZHOU WASHIN ELECTRONICS CO.,LTD	CB-36A	Signal Line, 1.0meter
USB Cable 2	Nokia	Shenzhen BRL Technology Co.,Ltd.	CB-36A	Signal Line, 1.0meter
USB Cable 3	Nokia	Saibao(Jiangi) Communication Industial Co.,Ltd	CB-12A	Signal Line, 1.0meter

NOTE：

1. In the finger plate, dial the code for entering Engineer mode: *#*#83781#*#*
2. EngineerMode->CONNECTIVITY->Wifi->Tx

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5250 ~ 5350MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5470 ~ 5725MHz

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

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

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz		
122	5610 MHz		

FOR 5725 ~ 5850MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
159	5795 MHz	159	5795 MHz
151	5755 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 MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	**-**	**Powered by Adapter with wifi(5G) link**
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where **RE≥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 (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (80MHz)	5180-5240	42	42	OFDM	MCS0

RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
A	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
A	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
A	802.11ac (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
A	802.11ac (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
A	802.11ac (80MHz)		106	106	OFDM	MCS0
A	802.11a	5745-5850	149 to 165	149, 157, 165	OFDM	6.0
A	802.11n (20MHz)		149 to 165	149, 157, 165	OFDM	MCS0
A	802.11ac (40MHz)		151 to 159	151, 159	OFDM	MCS0
A	802.11ac (20MHz)		149 to 165	149, 157, 165	OFDM	MCS0
A	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
A	802.11ac (80MHz)		155	155	OFDM	MCS0

POWER LINE CONDUCTED EMISSION TEST:

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (80MHz)	5180-5240	42	42	OFDM	MCS0

BANDEDGE MEASUREMENT:

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	36 to 48	6.0
A	802.11n (20MHz)		36 to 48	36, 48	36 to 48	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	38 to 46	MCS0
A	802.11ac (20MHz)		36 to 48	36, 48	36 to 48	MCS0
A	802.11ac (40MHz)		38 to 46	38, 46	38 to 46	MCS0
A	802.11ac (80MHz)		42	42	42	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	52 to 64	6.0
A	802.11n (20MHz)		52 to 64	52, 64	52 to 64	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	54 to 62	MCS0
A	802.11ac (20MHz)		52 to 64	52, 64	52 to 64	MCS0
A	802.11ac (40MHz)		54 to 62	54, 62	54 to 62	MCS0
A	802.11ac (80MHz)		58	58	58	MCS0
A	802.11a	5500-5700	100 to 140	100, 116, 140	100 to 140	6.0
A	802.11n (20MHz)		100 to 140	100, 116, 140	100 to 140	MCS0
A	802.11n (40MHz)		102 to 134	102, 110, 134	102 to 134	MCS0
A	802.11ac (20MHz)		100 to 140	100, 116, 140	100 to 140	MCS0
A	802.11ac (40MHz)		102 to 134	102, 110, 134	102 to 134	MCS0
A	802.11ac (80MHz)		106	106	106	MCS0

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5745-5825	149 to 165	149, 157,165	OFDM	6.0
A	802.11n (20MHz)		149 to 165	149, 157,165	OFDM	MCS0
A	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
A	802.11ac (20MHz)		149 to 165	149, 157,165	OFDM	MCS0
A	802.11ac (40MHz)		151 to 159	151, 159	OFDM	MCS0
A	802.11ac (80MHz)		155	155	OFDM	MCS0

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5700	100 to 144	100, 116, 140, 144	OFDM	6.0

A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5850	149 to 165	149, 157,165	OFDM	6.0
A	802.11n (20MHz)		149 to 165	149, 157,165	OFDM	MCS0
A	802.11n (40MHz)		151 to 159	151, 159	OFDM	MCS0
A	802.11ac (20MHz)		149 to 165	149, 157,165	OFDM	MCS0
A	802.11ac (40MHz)		151 to 159	151, 159	OFDM	MCS0
A	802.11ac (80MHz)		155	155	OFDM	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V By Adapter	Star Le
RE≥1G	23deg. C, 70%RH	DC5V By Adapter	Star Le
PLC	25deg. C, 52%RH	DC5V By Adapter	Jimmy Liu
APCM	25deg. C, 60%RH	DC 3.85V By Battery	Lily Zhao

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix E Of this test report.

WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT1
5GHZ	11a	90.32
	11n20	88.72
	11n40	79.73
	11ac20	88.81
	11ac40	80.00
	11ac80	66.67

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

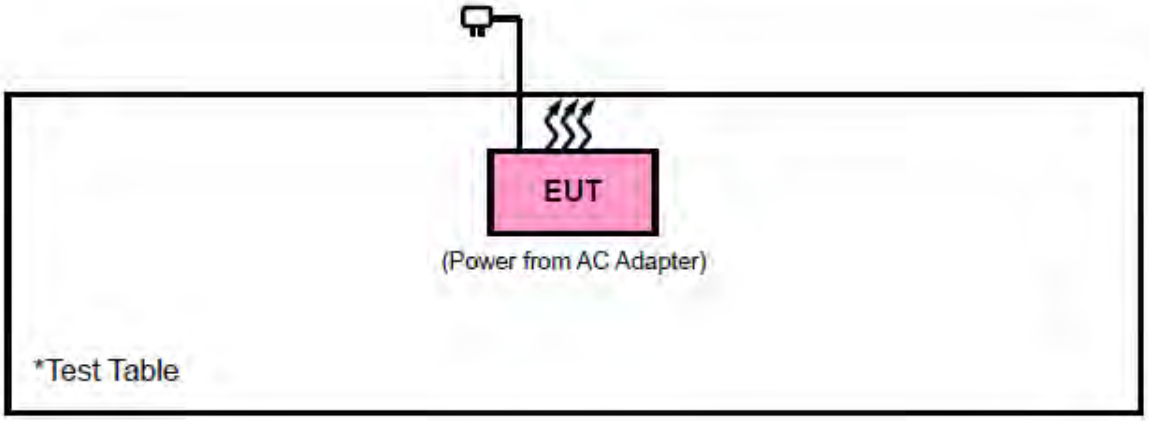
2.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad L440	R90FTFKN	N/A

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

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

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

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

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	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,21	Mar. 04,22
Horn Antenna	ETS-LINDGREN	3117	00168728	Apr. 02, 21	Apr. 01, 22
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 25, 21	Aug. 24, 22
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	Jun. 03,21	Jun. 02,22
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Apr. 27,21	Apr. 26,22
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 02,21	Jun. 01,22
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Apr. 30,21	Apr. 29,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22
Power Meter	Anritsu	ML2495A	1506002	Feb. 25,21	Feb. 24,22
Power Sensor	Anritsu	MA2411B	1339352	Feb. 25,21	Feb. 24,22
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-051	Feb 14,20	Feb. 13,23

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 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:

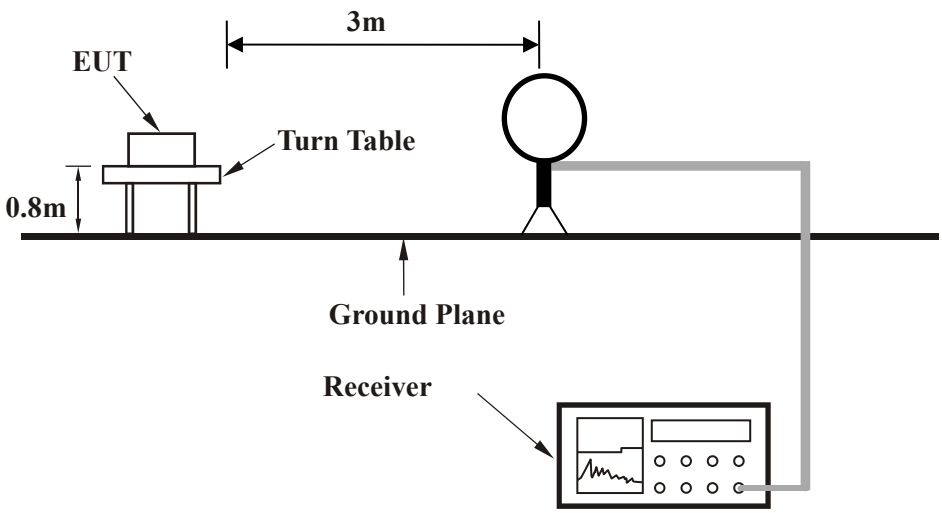
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

3.1.5 DEVIATION FROM TEST STANDARD

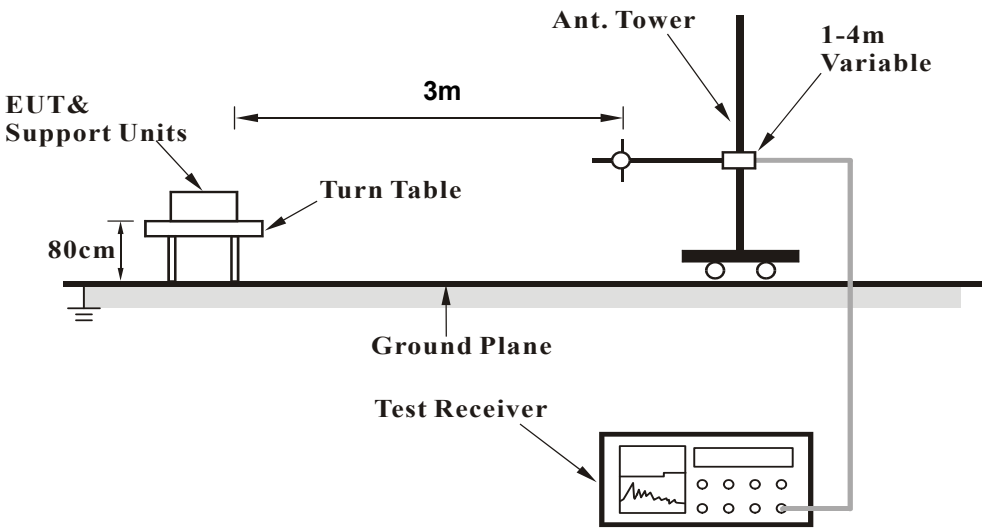
No deviation.

3.1.6 TEST SETUP

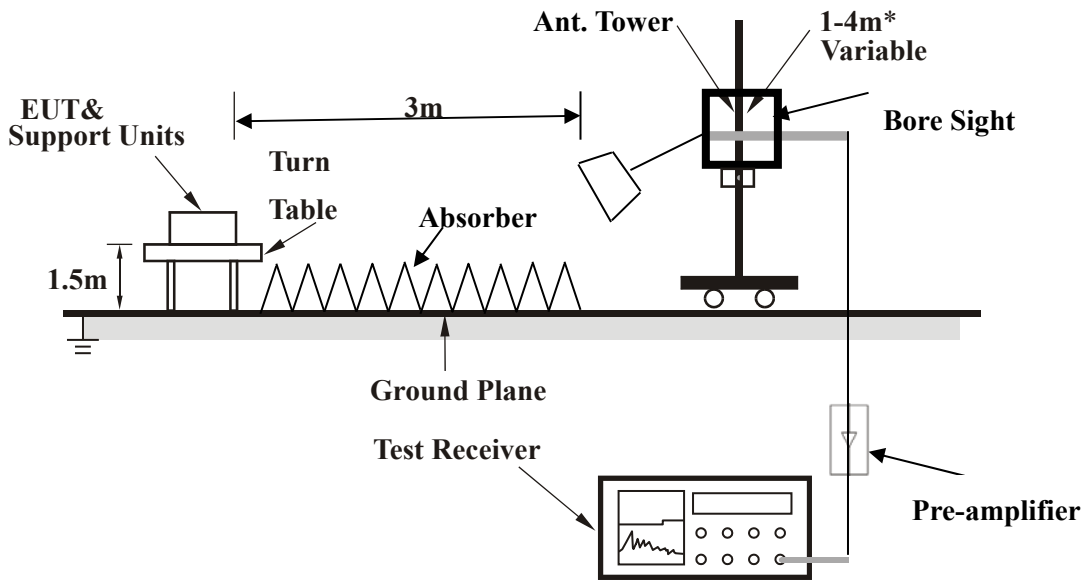
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

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

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

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:

Note: For frequency below 30MHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

30 MHz – 1GHz data:

Band 1

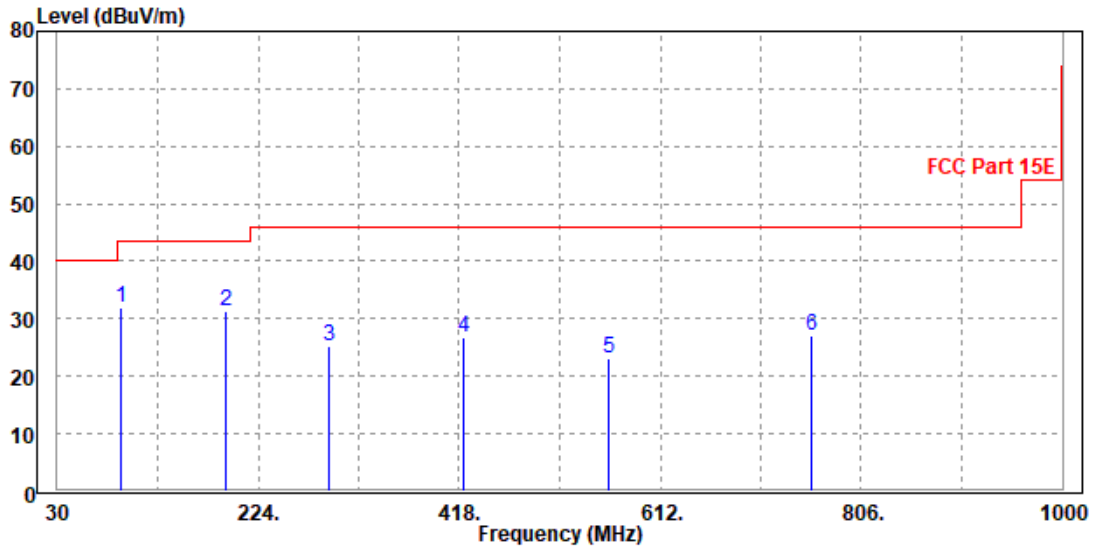
802.11ac (80MHz)

CHANNEL	TX Channel 42	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
91.11	32.09	60.27	43.5	-11.41	7.84	1.22	37.24	200	0	Peak
192.96	31.38	55.48	43.5	-12.12	10.72	1.76	36.58	200	0	Peak
291.9	25.3	45.99	46	-20.70	13.87	2.17	36.73	200	0	Peak
422.85	26.81	43.73	46	-19.19	17.31	2.64	36.87	200	0	Peak
562.53	23.25	37.42	46	-22.75	19.95	3.11	37.23	200	0	Peak
757.5	27.05	37.88	46	-18.95	23.1	3.7	37.63	200	0	Peak

REMARKS:

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

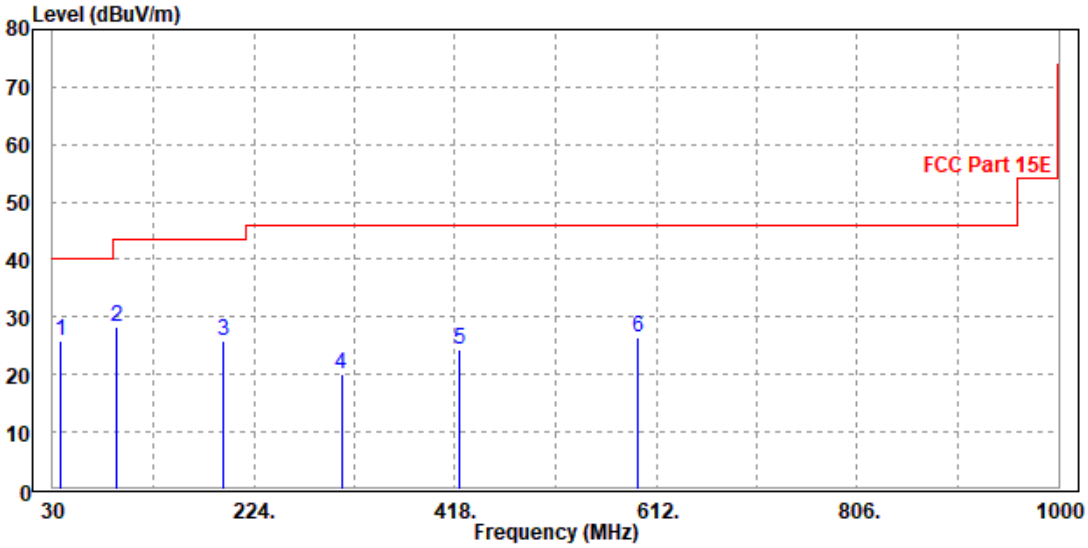


CHANNEL	Channel 42	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
37.76	25.91	47.87	40	-14.09	14.8	0.79	37.55	300	0	Peak
91.11	28.4	55.93	43.5	-15.1	8.49	1.22	37.24	300	0	Peak
194.9	25.9	49.51	43.5	-17.6	11.19	1.77	36.57	300	0	Peak
308.39	19.99	39.34	46	-26.01	15.18	2.23	36.76	300	0	Peak
422.85	24.27	40.87	46	-21.73	17.63	2.64	36.87	300	0	Peak
594.54	26.53	39.88	46	-19.47	20.8	3.2	37.35	300	0	Peak

REMARKS:

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



ABOVE 1GHz WORST-CASE DATA:

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

Band 1

802.11a

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

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
5150	55.43	57.74	74	-18.57	34.52	9.52	46.35	123	340	Peak
5150	49.31	51.62	54	-4.69	34.52	9.52	46.35	123	340	Average
5180	104.28	106.51	/	/	34.54	9.58	46.35	123	340	Peak
5180	97.22	99.45	/	/	34.54	9.58	46.35	123	340	Average
5350	54.12	55.8	74	-19.88	34.68	9.94	46.3	123	340	Peak
5350	46.9	48.58	54	-7.1	34.68	9.94	46.3	123	340	Average
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
5150	54.27	56.5	74	-19.73	34.6	9.52	46.35	100	70	Peak
5150	49.07	51.3	54	-4.93	34.6	9.52	46.35	100	70	Average
5180	103.11	105.28	/	/	34.6	9.58	46.35	100	70	Peak
5180	95.53	97.7	/	/	34.6	9.58	46.35	100	70	Average
5350	53.66	55.42	74	-20.34	34.6	9.94	46.3	100	70	Peak
5350	46.9	48.66	54	-7.1	34.6	9.94	46.3	100	70	Average

REMARKS:

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

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

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
5150	54.3	56.61	74	-19.7	34.52	9.52	46.35	123	340	Peak
5150	47.26	49.57	54	-6.74	34.52	9.52	46.35	123	340	Average
5200	104.6	106.76	/	/	34.56	9.62	46.34	123	340	Peak
5200	97.14	99.3	/	/	34.56	9.62	46.34	123	340	Average
5350	53.2	54.88	74	-20.8	34.68	9.94	46.3	123	340	Peak
5350	47.63	49.31	54	-6.37	34.68	9.94	46.3	123	340	Average
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
5150	54	56.23	74	-20	34.6	9.52	46.35	102	178	Peak
5150	48	50.23	54	-6	34.6	9.52	46.35	102	178	Average
5200	104.95	107.07	/	/	34.6	9.62	46.34	102	178	Peak
5200	97.51	99.63	/	/	34.6	9.62	46.34	102	178	Average
5350	54.61	56.37	74	-19.39	34.6	9.94	46.3	102	178	Peak
5350	46.86	48.62	54	-7.14	34.6	9.94	46.3	102	178	Average

REMARKS:

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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
5150	52.96	55.27	74	-21.04	34.52	9.52	46.35	100	340	Peak
5150	48.04	50.35	54	-5.96	34.52	9.52	46.35	100	340	Average
5240	103.64	105.67	/	/	34.59	9.71	46.33	100	340	Peak
5240	97.08	99.11	/	/	34.59	9.71	46.33	100	340	Average
5350	53.27	54.95	74	-20.73	34.68	9.94	46.3	100	340	Peak
5350	48.16	49.84	54	-5.84	34.68	9.94	46.3	100	340	Average
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
5150	54.99	57.22	74	-19.01	34.6	9.52	46.35	100	178	Peak
5150	47.33	49.56	54	-6.67	34.6	9.52	46.35	100	178	Average
5240	104.06	106.08	/	/	34.6	9.71	46.33	100	178	Peak
5240	96.97	98.99	/	/	34.6	9.71	46.33	100	178	Average
5350	52.97	54.73	74	-21.03	34.6	9.94	46.3	100	178	Peak
5350	47.25	49.01	54	-6.75	34.6	9.94	46.3	100	178	Average

REMARKS:

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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
5150	57.38	59.69	74	-16.62	34.52	9.52	46.35	123	340	Peak
5150	50.08	52.39	54	-3.92	34.52	9.52	46.35	123	340	Average
5180	105.56	107.79	/	/	34.54	9.58	46.35	123	340	Peak
5180	97.05	99.28	/	/	34.54	9.58	46.35	123	340	Average
5350	53.16	54.84	74	-20.84	34.68	9.94	46.3	123	340	Peak
5350	47	48.68	54	-7	34.68	9.94	46.3	123	340	Average
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
5150	56.23	58.46	74	-17.77	34.6	9.52	46.35	102	178	Peak
5150	49.7	51.93	54	-4.3	34.6	9.52	46.35	102	178	Average
5180	106.03	108.2	/	/	34.6	9.58	46.35	102	178	Peak
5180	97.09	99.26	/	/	34.6	9.58	46.35	102	178	Average
5350	53.43	55.19	74	-20.57	34.6	9.94	46.3	102	178	Peak
5350	46.94	48.7	54	-7.06	34.6	9.94	46.3	102	178	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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	53.95	56.26	74	-20.05	34.52	9.52	46.35	123	340	Peak
5150	47.64	49.95	54	-6.36	34.52	9.52	46.35	123	340	Average
5200	105.75	107.91	/	/	34.56	9.62	46.34	123	340	Peak
5200	96.94	99.1	/	/	34.56	9.62	46.34	123	340	Average
5350	53.24	54.92	74	-20.76	34.68	9.94	46.3	123	340	Peak
5350	47.14	48.82	54	-6.86	34.68	9.94	46.3	123	340	Average
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
5150	52.99	55.22	74	-21.01	34.6	9.52	46.35	102	178	Peak
5150	47.47	49.7	54	-6.53	34.6	9.52	46.35	102	178	Average
5200	104.68	106.8	/	/	34.6	9.62	46.34	102	178	Peak
5200	96.38	98.5	/	/	34.6	9.62	46.34	102	178	Average
5350	53.06	54.82	74	-20.94	34.6	9.94	46.3	102	178	Peak
5350	46.62	48.38	54	-7.38	34.6	9.94	46.3	102	178	Average

REMARKS:

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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
5150	53.38	55.69	74	-20.62	34.52	9.52	46.35	123	340	Peak
5150	47.77	50.08	54	-6.23	34.52	9.52	46.35	123	340	Average
5240	104.72	106.75	/	/	34.59	9.71	46.33	123	340	Peak
5240	96.34	98.37	/	/	34.59	9.71	46.33	123	340	Average
5350	53.59	55.27	74	-20.41	34.68	9.94	46.3	123	340	Peak
5350	47.12	48.8	54	-6.88	34.68	9.94	46.3	123	340	Average
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
5150	54.26	56.49	74	-19.74	34.6	9.52	46.35	102	178	Peak
5150	47.48	49.71	54	-6.52	34.6	9.52	46.35	102	178	Average
5240	104.81	106.83	/	/	34.6	9.71	46.33	102	178	Peak
5240	96.53	98.55	/	/	34.6	9.71	46.33	102	178	Average
5350	53.06	54.82	74	-20.94	34.6	9.94	46.3	102	178	Peak
5350	46.8	48.56	54	-7.2	34.6	9.94	46.3	102	178	Average

REMARKS:

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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**
5150	57.17	59.48	74	-16.83	34.52	9.52	46.35	135	205	Peak
5150	51.18	53.49	54	-2.82	34.52	9.52	46.35	135	205	Average
5190	96.59	98.78	/	/	34.55	9.6	46.34	135	205	Peak
5190	89.08	91.27	/	/	34.55	9.6	46.34	135	205	Average
5350	52.03	53.71	74	-21.97	34.68	9.94	46.3	135	205	Peak
5350	46.97	48.65	54	-7.03	34.68	9.94	46.3	135	205	Average
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**
5150	56.46	58.69	74	-17.54	34.6	9.52	46.35	100	180	Peak
5150	50.62	52.85	54	-3.38	34.6	9.52	46.35	100	180	Average
5190	94.38	96.52	/	/	34.6	9.6	46.34	100	180	Peak
5190	87.02	89.16	/	/	34.6	9.6	46.34	100	180	Average
5350	53.13	54.89	74	-20.87	34.6	9.94	46.3	100	180	Peak
5350	47.25	49.01	54	-6.75	34.6	9.94	46.3	100	180	Average

REMARKS:

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

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

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
5150	53.88	56.19	74	-20.12	34.52	9.52	46.35	123	340	Peak
5150	49.24	51.55	54	-4.76	34.52	9.52	46.35	123	340	Average
5230	100.3	102.36	/	/	34.58	9.69	46.33	123	340	Peak
5230	90.54	92.6	/	/	34.58	9.69	46.33	123	340	Average
5350	56.96	58.64	74	-17.04	34.68	9.94	46.3	123	340	Peak
5350	47.87	49.55	54	-6.13	34.68	9.94	46.3	123	340	Average
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
5150	55.92	58.15	74	-18.08	34.6	9.52	46.35	102	178	Peak
5150	49.16	51.39	54	-4.84	34.6	9.52	46.35	102	178	Average
5230	97.56	99.6	/	/	34.6	9.69	46.33	102	178	Peak
5230	89.55	91.59	/	/	34.6	9.69	46.33	102	178	Average
5350	54.56	56.32	74	-19.44	34.6	9.94	46.3	102	178	Peak
5350	47.96	49.72	54	-6.04	34.6	9.94	46.3	102	178	Average

REMARKS:

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

802.11ac (20MHz)

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

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
5150	55.59	57.9	74	-18.41	34.52	9.52	46.35	123	340	Peak
5150	51.17	53.48	54	-2.83	34.52	9.52	46.35	123	340	Average
5180	104.73	106.96	/	/	34.54	9.58	46.35	123	340	Peak
5180	95.66	97.89	/	/	34.54	9.58	46.35	123	340	Average
5350	53.67	55.35	74	-20.33	34.68	9.94	46.3	123	340	Peak
5350	47.91	49.59	54	-6.09	34.68	9.94	46.3	123	340	Average
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
5150	56.89	59.12	74	-17.11	34.6	9.52	46.35	100	70	Peak
5150	50.58	52.81	54	-3.42	34.6	9.52	46.35	100	70	Average
5180	102.99	105.16	/	/	34.6	9.58	46.35	100	70	Peak
5180	94.07	96.24	/	/	34.6	9.58	46.35	100	70	Average
5350	55.15	56.91	74	-18.85	34.6	9.94	46.3	100	70	Peak
5350	48.15	49.91	54	-5.85	34.6	9.94	46.3	100	70	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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	55.82	58.13	74	-18.18	34.52	9.52	46.35	123	340	Peak
5150	49.07	51.38	54	-4.93	34.52	9.52	46.35	123	340	Average
5200	104.92	107.08	/	/	34.56	9.62	46.34	123	340	Peak
5200	96.17	98.33	/	/	34.56	9.62	46.34	123	340	Average
5350	54.22	55.9	74	-19.78	34.68	9.94	46.3	123	340	Peak
5350	48.26	49.94	54	-5.74	34.68	9.94	46.3	123	340	Average
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
5150	54.67	56.9	74	-19.33	34.6	9.52	46.35	100	70	Peak
5150	48.98	51.21	54	-5.02	34.6	9.52	46.35	100	70	Average
5200	103.99	106.11	/	/	34.6	9.62	46.34	100	70	Peak
5200	95.28	97.4	/	/	34.6	9.62	46.34	100	70	Average
5350	54.43	56.19	74	-19.57	34.6	9.94	46.3	100	70	Peak
5350	48.03	49.79	54	-5.97	34.6	9.94	46.3	100	70	Average

REMARKS:

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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
5150	54.27	56.58	74	-19.73	34.52	9.52	46.35	123	340	Peak
5150	49.42	51.73	54	-4.58	34.52	9.52	46.35	123	340	Average
5240	104.38	106.41	/	/	34.59	9.71	46.33	123	340	Peak
5240	95.6	97.63	/	/	34.59	9.71	46.33	123	340	Average
5350	56.29	57.97	74	-17.71	34.68	9.94	46.3	123	340	Peak
5350	48.01	49.69	54	-5.99	34.68	9.94	46.3	123	340	Average
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
5150	55.42	57.65	74	-18.58	34.6	9.52	46.35	100	70	Peak
5150	48.89	51.12	54	-5.11	34.6	9.52	46.35	100	70	Average
5240	102.77	104.79	/	/	34.6	9.71	46.33	100	70	Peak
5240	94.39	96.41	/	/	34.6	9.71	46.33	100	70	Average
5350	54.53	56.29	74	-19.47	34.6	9.94	46.3	100	70	Peak
5350	48.34	50.1	54	-5.66	34.6	9.94	46.3	100	70	Average

REMARKS:

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

802.11ac (40MHz)

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

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**
5150	59.48	61.79	74	-14.52	34.52	9.52	46.35	123	340	Peak
5150	52.33	54.64	54	-1.67	34.52	9.52	46.35	123	340	Average
5190	97.02	99.21	/	/	34.55	9.6	46.34	123	340	Peak
5190	89.36	91.55	/	/	34.55	9.6	46.34	123	340	Average
5350	54.23	55.91	74	-19.77	34.68	9.94	46.3	123	340	Peak
5350	48.31	49.99	54	-5.69	34.68	9.94	46.3	123	340	Average
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**
5150	60.58	62.81	74	-13.42	34.6	9.52	46.35	100	70	5150
5150	51.7	53.93	54	-2.3	34.6	9.52	46.35	100	70	5150
5190	97.34	99.48	/	/	34.6	9.6	46.34	100	70	5190
5190	89	91.14	/	/	34.6	9.6	46.34	100	70	5190
5350	55.17	56.93	74	-18.83	34.6	9.94	46.3	100	70	5350
5350	48.02	49.78	54	-5.98	34.6	9.94	46.3	100	70	5350

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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	55	57.31	74	-19	34.52	9.52	46.35	100	0	Peak
5150	48.99	51.3	54	-5.01	34.52	9.52	46.35	100	0	Average
5230	96.61	98.67	/	/	34.58	9.69	46.33	100	0	Peak
5230	88.79	90.85	/	/	34.58	9.69	46.33	100	0	Average
5350	55.08	56.76	74	-18.92	34.68	9.94	46.3	100	0	Peak
5350	48.32	50	54	-5.68	34.68	9.94	46.3	100	0	Average
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
5150	56.84	59.07	74	-17.16	34.6	9.52	46.35	110	185	Peak
5150	48.73	50.96	54	-5.27	34.6	9.52	46.35	110	185	Average
5230	95.8	97.84	/	/	34.6	9.69	46.33	110	185	Peak
5230	88.64	90.68	/	/	34.6	9.69	46.33	110	185	Average
5350	55.35	57.11	74	-18.65	34.6	9.94	46.3	110	185	Peak
5350	48.06	49.82	54	-5.94	34.6	9.94	46.3	110	185	Average

REMARKS:

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

802.11ac (80MHz)

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

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**
5150	57.27	59.58	74	-16.73	34.52	9.52	46.35	110	360	Peak
5150	53.01	55.32	54	**-0.99**	34.52	9.52	46.35	110	360	Average
5210	95.53	97.66	/	/	34.57	9.64	46.34	110	360	Peak
5210	87.32	89.45	/	/	34.57	9.64	46.34	110	360	Average
5350	53.46	55.14	74	-20.54	34.68	9.94	46.3	110	360	Peak
5350	47.9	49.58	54	-6.1	34.68	9.94	46.3	110	360	Average
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**
5150	56.91	59.14	74	-17.09	34.6	9.52	46.35	110	185	Peak
5150	51.05	53.28	54	-2.95	34.6	9.52	46.35	110	185	Average
5210	93.13	95.23	/	/	34.6	9.64	46.34	110	185	Peak
5210	85.4	87.5	/	/	34.6	9.64	46.34	110	185	Average
5350	53.27	55.03	74	-20.73	34.6	9.94	46.3	110	185	Peak
5350	48.42	50.18	54	-5.58	34.6	9.94	46.3	110	185	Average

REMARKS:

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

Band 2

802.11a

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

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
5150	54.51	56.82	74	-19.49	34.52	9.52	46.35	100	340	Peak
5150	48.57	50.88	54	-5.43	34.52	9.52	46.35	100	340	Average
5260	105.39	107.35	/	/	34.61	9.75	46.32	100	340	Peak
5260	97.81	99.77	/	/	34.61	9.75	46.32	100	340	Average
5350	54.32	56	74	-19.68	34.68	9.94	46.3	100	340	Peak
5350	48.53	50.21	54	-5.47	34.68	9.94	46.3	100	340	Average
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
5150	54.27	56.5	74	-19.73	34.6	9.52	46.35	100	200	Peak
5150	48.93	51.16	54	-5.07	34.6	9.52	46.35	100	200	Average
5260	102.8	104.77	/	/	34.6	9.75	46.32	100	200	Peak
5260	95.31	97.28	/	/	34.6	9.75	46.32	100	200	Average
5350	54.11	55.87	74	-19.89	34.6	9.94	46.3	100	200	Peak
5350	48.39	50.15	54	-5.61	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

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
5150	54.97	57.28	74	-19.03	34.52	9.52	46.35	100	340	Peak
5150	49.75	52.06	54	-4.25	34.52	9.52	46.35	100	340	Average
5300	105.3	107.14	/	/	34.64	9.83	46.31	100	340	Peak
5300	98.06	99.9	/	/	34.64	9.83	46.31	100	340	Average
5350	53.99	55.67	74	-20.01	34.68	9.94	46.3	100	340	Peak
5350	47.8	49.48	54	-6.2	34.68	9.94	46.3	100	340	Average
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
5150	55.5	57.73	74	-18.5	34.6	9.52	46.35	100	200	Peak
5150	49.09	51.32	54	-4.91	34.6	9.52	46.35	100	200	Average
5300	103.87	105.75	/	/	34.6	9.83	46.31	100	200	Peak
5300	97.08	98.96	/	/	34.6	9.83	46.31	100	200	Average
5350	54.97	56.73	74	-19.03	34.6	9.94	46.3	100	200	Peak
5350	48.63	50.39	54	-5.37	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

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
5150	55.16	57.47	74	-18.84	34.52	9.52	46.35	100	340	Peak
5150	48.73	51.04	54	-5.27	34.52	9.52	46.35	100	340	Average
5320	105.4	107.16	/	/	34.66	9.88	46.3	100	340	Peak
5320	97.58	99.34	/	/	34.66	9.88	46.3	100	340	Average
5350	55.83	57.51	74	-18.17	34.68	9.94	46.3	100	340	Peak
5350	50.02	51.7	54	-3.98	34.68	9.94	46.3	100	340	Average
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
5150	54.06	56.29	74	-19.94	34.6	9.52	46.35	100	200	Peak
5150	49.61	51.84	54	-4.39	34.6	9.52	46.35	100	200	Average
5320	102.3	104.12	/	/	34.6	9.88	46.3	100	200	Peak
5320	96.88	98.7	/	/	34.6	9.88	46.3	100	200	Average
5350	56.82	58.58	74	-17.18	34.6	9.94	46.3	100	200	Peak
5350	49.57	51.33	54	-4.43	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: 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										
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	55.63	57.94	74	-18.37	34.52	9.52	46.35	100	340	Peak
5150	49.52	51.83	54	-4.48	34.52	9.52	46.35	100	340	Average
5260	105.41	107.37	/	/	34.61	9.75	46.32	100	340	Peak
5260	97.69	99.65	/	/	34.61	9.75	46.32	100	340	Average
5350	55.12	56.8	74	-18.88	34.68	9.94	46.3	100	340	Peak
5350	48.48	50.16	54	-5.52	34.68	9.94	46.3	100	340	Average
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
5150	54.85	57.08	74	-19.15	34.6	9.52	46.35	100	200	Peak
5150	49.27	51.5	54	-4.73	34.6	9.52	46.35	100	200	Average
5260	101.39	103.36	/	/	34.6	9.75	46.32	100	200	Peak
5260	93.32	95.29	/	/	34.6	9.75	46.32	100	200	Average
5350	55.48	57.24	74	-18.52	34.6	9.94	46.3	100	200	Peak
5350	48.24	50	54	-5.76	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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	55.16	57.47	74	-18.84	34.52	9.52	46.35	100	340	Peak
5150	48.53	50.84	54	-5.47	34.52	9.52	46.35	100	340	Average
5300	105.38	107.22	/	/	34.64	9.83	46.31	100	340	Peak
5300	96.49	98.33	/	/	34.64	9.83	46.31	100	340	Average
5350	58.33	60.01	74	-15.67	34.68	9.94	46.3	100	340	Peak
5350	48.5	50.18	54	-5.5	34.68	9.94	46.3	100	340	Average
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
5150	54.23	56.46	74	-19.77	34.6	9.52	46.35	100	200	Peak
5150	49.63	51.86	54	-4.37	34.6	9.52	46.35	100	200	Average
5300	103.8	105.68	/	/	34.6	9.83	46.31	100	200	Peak
5300	97.06	98.94	/	/	34.6	9.83	46.31	100	200	Average
5350	55.79	57.55	74	-18.21	34.6	9.94	46.3	100	200	Peak
5350	47.98	49.74	54	-6.02	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

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
5150	56.75	59.06	74	-17.25	34.52	9.52	46.35	100	340	Peak
5150	48.6	50.91	54	-5.4	34.52	9.52	46.35	100	340	Average
5320	103.56	105.32	/	/	34.66	9.88	46.3	100	340	Peak
5320	97	98.76	/	/	34.66	9.88	46.3	100	340	Average
5350	56.9	58.58	74	-17.1	34.68	9.94	46.3	100	340	Peak
5350	50.47	52.15	54	-3.53	34.68	9.94	46.3	100	340	Average
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
5150	54.78	57.01	74	-19.22	34.6	9.52	46.35	100	200	Peak
5150	49.28	51.51	54	-4.72	34.6	9.52	46.35	100	200	Average
5320	101.84	103.66	/	/	34.6	9.88	46.3	100	200	Peak
5320	94.86	96.68	/	/	34.6	9.88	46.3	100	200	Average
5350	55.07	56.83	74	-18.93	34.6	9.94	46.3	100	200	Peak
5350	49.05	50.81	54	-4.95	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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	54.31	56.62	74	-19.69	34.52	9.52	46.35	100	340	Peak
5150	49.63	51.94	54	-4.37	34.52	9.52	46.35	100	340	Average
5270	98.76	100.69	/	/	34.62	9.77	46.32	100	340	Peak
5270	91.9	93.83	/	/	34.62	9.77	46.32	100	340	Average
5350	54.49	56.17	74	-19.51	34.68	9.94	46.3	100	340	Peak
5350	48.53	50.21	54	-5.47	34.68	9.94	46.3	100	340	Average
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
5150	55.77	58	74	-18.23	34.6	9.52	46.35	100	200	Peak
5150	48.73	50.96	54	-5.27	34.6	9.52	46.35	100	200	Average
5270	96.46	98.41	/	/	34.6	9.77	46.32	100	200	Peak
5270	91.09	93.04	/	/	34.6	9.77	46.32	100	200	Average
5350	55.24	57	74	-18.76	34.6	9.94	46.3	100	200	Peak
5350	48.33	50.09	54	-5.67	34.6	9.94	46.3	100	200	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	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	52.83	55.14	74	-21.17	34.52	9.52	46.35	100	340	Peak
5150	47.06	49.37	54	-6.94	34.52	9.52	46.35	100	340	Average
5310	98.15	99.96	/	/	34.65	9.85	46.31	100	340	Peak
5310	91.94	93.75	/	/	34.65	9.85	46.31	100	340	Average
5350	57.24	58.92	74	-16.76	34.68	9.94	46.3	100	340	Peak
5350	50.51	52.19	54	-3.49	34.68	9.94	46.3	100	340	Average
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
5150	53.38	55.61	74	-20.62	34.6	9.52	46.35	100	80	Peak
5150	47.13	49.36	54	-6.87	34.6	9.52	46.35	100	80	Average
5310	98.9	100.76	/	/	34.6	9.85	46.31	100	80	Peak
5310	92.05	93.91	/	/	34.6	9.85	46.31	100	80	Average
5350	58.59	60.35	74	-15.41	34.6	9.94	46.3	100	80	Peak
5350	51.17	52.93	54	-2.83	34.6	9.94	46.3	100	80	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (20MHz)

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

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
5150	54.34	56.65	74	-19.66	34.52	9.52	46.35	100	340	Peak
5150	47.25	49.56	54	-6.75	34.52	9.52	46.35	100	340	Average
5260	106.21	108.17	/	/	34.61	9.75	46.32	100	340	Peak
5260	97.64	99.6	/	/	34.61	9.75	46.32	100	340	Average
5350	54.52	56.2	74	-19.48	34.68	9.94	46.3	100	340	Peak
5350	47.1	48.78	54	-6.9	34.68	9.94	46.3	100	340	Average
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
5150	53.49	55.72	74	-20.51	34.6	9.52	46.35	100	180	Peak
5150	46.76	48.99	54	-7.24	34.6	9.52	46.35	100	180	Average
5260	105.27	107.24	/	/	34.6	9.75	46.32	100	180	Peak
5260	96.78	98.75	/	/	34.6	9.75	46.32	100	180	Average
5350	52.64	54.4	74	-21.36	34.6	9.94	46.3	100	180	Peak
5350	46.47	48.23	54	-7.53	34.6	9.94	46.3	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

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
5150	52.56	54.87	74	-21.44	34.52	9.52	46.35	100	340	Peak
5150	47.23	49.54	54	-6.77	34.52	9.52	46.35	100	340	Average
5300	104.93	106.77	/	/	34.64	9.83	46.31	100	340	Peak
5300	96.62	98.46	/	/	34.64	9.83	46.31	100	340	Average
5350	52.98	54.66	74	-21.02	34.68	9.94	46.3	100	340	Peak
5350	47.39	49.07	54	-6.61	34.68	9.94	46.3	100	340	Average
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
5150	55.02	57.25	74	-18.98	34.6	9.52	46.35	100	180	Peak
5150	46.84	49.07	54	-7.16	34.6	9.52	46.35	100	180	Average
5300	103.56	105.44	/	/	34.6	9.83	46.31	100	180	Peak
5300	95.4	97.28	/	/	34.6	9.83	46.31	100	180	Average
5350	53.84	55.6	74	-20.16	34.6	9.94	46.3	100	180	Peak
5350	46.66	48.42	54	-7.34	34.6	9.94	46.3	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

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
5150	52.9	55.21	74	-21.1	34.52	9.52	46.35	200	205	Peak
5150	46.82	49.13	54	-7.18	34.52	9.52	46.35	200	205	Average
5320	104.71	106.47	/	/	34.66	9.88	46.3	200	205	Peak
5320	96.22	97.98	/	/	34.66	9.88	46.3	200	205	Average
5350	55.72	57.4	74	-18.28	34.68	9.94	46.3	200	205	Peak
5350	48.67	50.35	54	-5.33	34.68	9.94	46.3	200	205	Average
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
5150	52.24	54.47	74	-21.76	34.6	9.52	46.35	100	180	Peak
5150	47	49.23	54	-7	34.6	9.52	46.35	100	180	Average
5320	103.92	105.74	/	/	34.6	9.88	46.3	100	180	Peak
5320	95.76	97.58	/	/	34.6	9.88	46.3	100	180	Average
5350	56.21	57.97	74	-17.79	34.6	9.94	46.3	100	180	Peak
5350	48.96	50.72	54	-5.04	34.6	9.94	46.3	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11ac (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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	52.34	54.65	74	-21.66	34.52	9.52	46.35	100	205	Peak
5150	47.46	49.77	54	-6.54	34.52	9.52	46.35	100	205	Average
5270	97.97	99.9	/	/	34.62	9.77	46.32	100	205	Peak
5270	91.06	92.99	/	/	34.62	9.77	46.32	100	205	Average
5350	53.66	55.34	74	-20.34	34.68	9.94	46.3	100	205	Peak
5350	47.15	48.83	54	-6.85	34.68	9.94	46.3	100	205	Average
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
5150	52.83	55.06	74	-21.17	34.6	9.52	46.35	100	180	Peak
5150	46.92	49.15	54	-7.08	34.6	9.52	46.35	100	180	Average
5270	95.19	97.14	/	/	34.6	9.77	46.32	100	180	Peak
5270	88.45	90.4	/	/	34.6	9.77	46.32	100	180	Average
5350	51.56	53.32	74	-22.44	34.6	9.94	46.3	100	180	Peak
5350	47.14	48.9	54	-6.86	34.6	9.94	46.3	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	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	52.04	54.35	74	-21.96	34.52	9.52	46.35	100	205	Peak
5150	47.53	49.84	54	-6.47	34.52	9.52	46.35	100	205	Average
5310	97.93	99.74	/	/	34.65	9.85	46.31	100	205	Peak
5310	91.28	93.09	/	/	34.65	9.85	46.31	100	205	Average
5350	56.97	58.65	74	-17.03	34.68	9.94	46.3	100	205	Peak
5350	49.91	51.59	54	-4.09	34.68	9.94	46.3	100	205	Average
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
5150	52.85	55.08	74	-21.15	34.6	9.52	46.35	100	180	Peak
5150	47.47	49.7	54	-6.53	34.6	9.52	46.35	100	180	Average
5310	96.66	98.52	/	/	34.6	9.85	46.31	100	180	Peak
5310	89.66	91.52	/	/	34.6	9.85	46.31	100	180	Average
5350	56.31	58.07	74	-17.69	34.6	9.94	46.3	100	180	Peak
5350	49.21	50.97	54	-4.79	34.6	9.94	46.3	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (80MHz)

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

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**
5150	53.77	56.08	74	-20.23	34.52	9.52	46.35	100	205	Peak
5150	48.59	50.9	54	-5.41	34.52	9.52	46.35	100	205	Average
5290	95.03	96.9	/	/	34.63	9.81	46.31	100	205	Peak
5290	88.4	90.27	/	/	34.63	9.81	46.31	100	205	Average
5350	56.39	58.07	74	-17.61	34.68	9.94	46.3	100	205	Peak
5350	51.38	53.06	54	-2.62	34.68	9.94	46.3	100	205	Average
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**
5150	53.38	55.61	74	-20.62	34.6	9.52	46.35	100	180	Peak
5150	48.34	50.57	54	-5.66	34.6	9.52	46.35	100	180	Average
5290	92.64	94.54	/	/	34.6	9.81	46.31	100	180	Peak
5290	86.25	88.15	/	/	34.6	9.81	46.31	100	180	Average
5350	57.01	58.77	74	-16.99	34.6	9.94	46.3	100	180	Peak
5350	50.87	52.63	54	-3.13	34.6	9.94	46.3	100	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.

Band 3

802.11a

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

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
5460	55.3	56.62	74	-18.7	34.77	10.17	46.26	172	205	Peak
5460	48.52	49.84	54	-5.48	34.77	10.17	46.26	172	205	Average
5470	58.86	60.15	68.2	-9.34	34.78	10.19	46.26	172	205	Peak
5500	104.76	105.95	/	/	34.8	10.26	46.25	172	205	Peak
5500	97.59	98.78	/	/	34.8	10.26	46.25	172	205	Average
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
5460	54.66	56.15	74	-19.34	34.6	10.17	46.26	105	180	Peak
5460	47.65	49.14	54	-6.35	34.6	10.17	46.26	105	180	Average
5470	58.07	59.54	68.2	-10.13	34.6	10.19	46.26	105	180	Peak
5500	103.74	105.13	/	/	34.6	10.26	46.25	105	180	Peak
5500	96.26	97.65	/	/	34.6	10.26	46.25	105	180	Average

REMARKS:

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

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

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
5460	54.78	56.1	74	-19.22	34.77	10.17	46.26	172	205	Peak
5460	46.72	48.04	54	-7.28	34.77	10.17	46.26	172	205	Average
5470	53.57	54.86	68.2	-14.63	34.78	10.19	46.26	172	205	Peak
5580	104.32	105.06	/	/	34.9	10.59	46.23	172	205	Peak
5580	97.76	98.5	/	/	34.9	10.59	46.23	172	205	Average
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
5460	53.66	55.15	74	-20.34	34.6	10.17	46.26	102	180	Peak
5460	46.83	48.32	54	-7.17	34.6	10.17	46.26	102	180	Average
5470	53.16	54.63	68.2	-15.04	34.6	10.19	46.26	102	180	Peak
5580	104.35	105.29	/	/	34.7	10.59	46.23	102	180	Peak
5580	97.5	98.44	/	/	34.7	10.59	46.23	102	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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
5700	105.76	105.82	/	/	35.04	11.09	46.19	200	205	Peak
5700	99.33	99.39	/	/	35.04	11.09	46.19	200	205	Average
5725	62.51	62.43	68.2	-5.69	35.07	11.2	46.19	200	205	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
5700	104.87	105.13	/	/	34.84	11.09	46.19	102	180	Peak
5700	98.1	98.36	/	/	34.84	11.09	46.19	102	180	Average
5725	59.23	59.35	68.2	-8.97	34.87	11.2	46.19	102	180	Peak

REMARKS:

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

802.11n (20MHz)

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

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
5460	55.22	56.54	74	-18.78	34.77	10.17	46.26	200	205	Peak
5460	49.12	50.44	54	-4.88	34.77	10.17	46.26	200	205	Average
5470	57.31	58.6	68.2	-10.89	34.78	10.19	46.26	200	205	Peak
5500	105.86	107.05	/	/	34.8	10.26	46.25	200	205	Peak
5500	97.52	98.71	/	/	34.8	10.26	46.25	200	205	Average
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
5460	52.68	54.17	74	-21.32	34.6	10.17	46.26	110	180	Peak
5460	46.67	48.16	54	-7.33	34.6	10.17	46.26	110	180	Average
5470	57.37	58.84	68.2	-10.83	34.6	10.19	46.26	110	180	Peak
5500	103.7	105.09	/	/	34.6	10.26	46.25	110	180	Peak
5500	95.53	96.92	/	/	34.6	10.26	46.25	110	180	Average

REMARKS:

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

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

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
5460	53.22	54.54	74	-20.78	34.77	10.17	46.26	100	205	Peak
5460	47.38	48.7	54	-6.62	34.77	10.17	46.26	100	205	Average
5470	53.01	54.3	68.2	-15.19	34.78	10.19	46.26	100	205	Peak
5580	106.73	107.47	/	/	34.9	10.59	46.23	100	205	Peak
5580	98.8	99.54	/	/	34.9	10.59	46.23	100	205	Average
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
5460	52.67	54.16	74	-21.33	34.6	10.17	46.26	110	180	Peak
5460	46.99	48.48	54	-7.01	34.6	10.17	46.26	110	180	Average
5470	53.91	55.38	68.2	-14.29	34.6	10.19	46.26	110	180	Peak
5580	105.15	106.09	/	/	34.7	10.59	46.23	110	180	Peak
5580	97.16	98.1	/	/	34.7	10.59	46.23	110	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

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

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**
5700	105.88	105.94	/	/	35.04	11.09	46.19	100	205	Peak
5700	98.11	98.17	/	/	35.04	11.09	46.19	100	205	Average
5725	62.73	62.65	68.2	-5.47	35.07	11.2	46.19	100	205	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**
5700	107.82	108.08	/	/	34.84	11.09	46.19	100	180	Peak
5700	99.47	99.73	/	/	34.84	11.09	46.19	100	180	Average
5725	63.65	63.77	68.2	-4.55	34.87	11.2	46.19	100	180	Peak

REMARKS:

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

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										
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
5460	53.5	54.82	74	-20.5	34.77	10.17	46.26	110	205	Peak
5460	48.25	49.57	54	-5.75	34.77	10.17	46.26	110	205	Average
5470	57.83	59.12	68.2	-10.37	34.78	10.19	46.26	110	205	Peak
5510	98.49	99.63	/	/	34.81	10.3	46.25	110	205	Peak
5510	92.34	93.48	/	/	34.81	10.3	46.25	110	205	Average
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
5460	53.5	54.99	74	-20.5	34.6	10.17	46.26	105	180	Peak
5460	48.04	49.53	54	-5.96	34.6	10.17	46.26	105	180	Average
5470	55.54	57.01	68.2	-12.66	34.6	10.19	46.26	105	180	Peak
5510	97.09	98.43	/	/	34.61	10.3	46.25	105	180	Peak
5510	91.2	92.54	/	/	34.61	10.3	46.25	105	180	Average

REMARKS:

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

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

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
5460	56.41	57.73	74	-17.59	34.77	10.17	46.26	110	205	Peak
5460	46.82	48.14	54	-7.18	34.77	10.17	46.26	110	205	Average
5470	53.45	54.74	68.2	-14.75	34.78	10.19	46.26	110	205	Peak
5550	98.75	99.66	/	/	34.86	10.47	46.24	110	205	Peak
5550	92.17	93.08	/	/	34.86	10.47	46.24	110	205	Average
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
5460	52.95	54.44	74	-21.05	34.6	10.17	46.26	102	180	Peak
5460	46.93	48.42	54	-7.07	34.6	10.17	46.26	102	180	Average
5470	52.74	54.21	68.2	-15.46	34.6	10.19	46.26	102	180	Peak
5550	98.57	99.68	/	/	34.66	10.47	46.24	102	180	Peak
5550	92.44	93.55	/	/	34.66	10.47	46.24	102	180	Average

REMARKS:

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

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

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
5670	98.05	98.28	/	/	35	10.97	46.2	100	205	Peak
5670	92.92	93.15	/	/	35	10.97	46.2	100	205	Average
5725	54.8	54.72	68.2	-13.4	35.07	11.2	46.19	100	205	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
5670	98.91	99.34	/	/	34.8	10.97	46.2	102	180	Peak
5670	92.82	93.25	/	/	34.8	10.97	46.2	102	180	Average
5725	54.31	54.43	68.2	-13.89	34.87	11.2	46.19	102	180	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	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
5460	55.79	57.11	74	-18.21	34.77	10.17	46.26	110	205	Peak
5460	47.94	49.26	54	-6.06	34.77	10.17	46.26	110	205	Average
5470	59.68	60.97	68.2	-8.52	34.78	10.19	46.26	110	205	Peak
5500	106.12	107.31	/	/	34.8	10.26	46.25	110	205	Peak
5500	97.96	99.15	/	/	34.8	10.26	46.25	110	205	Average
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
5460	52.89	54.38	74	-21.11	34.6	10.17	46.26	105	180	Peak
5460	47.81	49.3	54	-6.19	34.6	10.17	46.26	105	180	Average
5470	57.17	58.64	68.2	-11.03	34.6	10.19	46.26	105	180	Peak
5500	103.87	105.26	/	/	34.6	10.26	46.25	105	180	Peak
5500	95.97	97.36	/	/	34.6	10.26	46.25	105	180	Average

REMARKS:

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

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

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
5460	53.15	54.47	74	-20.85	34.77	10.17	46.26	100	205	Peak
5460	46.84	48.16	54	-7.16	34.77	10.17	46.26	100	205	Average
5470	54.92	56.21	68.2	-13.28	34.78	10.19	46.26	100	205	Peak
5580	105.45	106.19	/	/	34.9	10.59	46.23	100	205	Peak
5580	97.84	98.58	/	/	34.9	10.59	46.23	100	205	Average
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
5460	53.39	54.88	74	-20.61	34.6	10.17	46.26	102	180	Peak
5460	46.63	48.12	54	-7.37	34.6	10.17	46.26	102	180	Average
5470	52.86	54.33	68.2	-15.34	34.6	10.19	46.26	102	180	Peak
5580	105.28	106.22	/	/	34.7	10.59	46.23	102	180	Peak
5580	97.7	98.64	/	/	34.7	10.59	46.23	102	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: Out of restricted band.

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

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**
5700	106.53	106.59	/	/	35.04	11.09	46.19	138	205	Peak
5700	98.69	98.75	/	/	35.04	11.09	46.19	138	205	Average
5725	62.27	62.19	68.2	-5.93	35.07	11.2	46.19	138	205	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**
5700	107.25	107.51	/	/	34.84	11.09	46.19	100	180	Peak
5700	99.28	99.54	/	/	34.84	11.09	46.19	100	180	Average
5725	63.72	63.84	68.2	-4.48	34.87	11.2	46.19	100	180	Peak

REMARKS:

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

802.11ac (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	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
5460	52.94	54.26	74	-21.06	34.77	10.17	46.26	155	205	Peak
5460	47.11	48.43	54	-6.89	34.77	10.17	46.26	155	205	Average
5470	59.2	60.49	68.2	-9	34.78	10.19	46.26	155	205	Peak
5510	96.54	97.68	/	/	34.81	10.3	46.25	155	205	Peak
5510	90.39	91.53	/	/	34.81	10.3	46.25	155	205	Average
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
5460	53.13	54.62	74	-20.87	34.6	10.17	46.26	105	180	Peak
5460	47.13	48.62	54	-6.87	34.6	10.17	46.26	105	180	Average
5470	56.6	58.07	68.2	-11.6	34.6	10.19	46.26	105	180	Peak
5510	95.65	96.99	/	/	34.61	10.3	46.25	105	180	Peak
5510	89.54	90.88	/	/	34.61	10.3	46.25	105	180	Average

REMARKS:

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

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

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
5460	52.02	53.34	74	-21.98	34.77	10.17	46.26	155	205	Peak
5460	47.48	48.8	54	-6.52	34.77	10.17	46.26	155	205	Average
5470	53.14	54.43	68.2	-15.06	34.78	10.19	46.26	155	205	Peak
5550	96.47	97.38	/	/	34.86	10.47	46.24	155	205	Peak
5550	90.45	91.36	/	/	34.86	10.47	46.24	155	205	Average
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
5460	52.5	53.99	74	-21.5	34.6	10.17	46.26	102	180	Peak
5460	46.62	48.11	54	-7.38	34.6	10.17	46.26	102	180	Average
5470	53.35	54.82	68.2	-14.85	34.6	10.19	46.26	102	180	Peak
5550	96.29	97.4	/	/	34.66	10.47	46.24	102	180	Peak
5550	90.56	91.67	/	/	34.66	10.47	46.24	102	180	Average

REMARKS:

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

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

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**
5670	96.31	96.54	/	/	35	10.97	46.2	100	205	Peak
5670	91.03	91.26	/	/	35	10.97	46.2	100	205	Average
5725	56.17	56.09	68.2	-12.03	35.07	11.2	46.19	100	205	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**
5670	96.82	97.25	/	/	34.8	10.97	46.2	102	180	Peak
5670	91.27	91.7	/	/	34.8	10.97	46.2	102	180	Average
5725	54.95	55.07	68.2	-13.25	34.87	11.2	46.19	102	180	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: Out of 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										
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
5460	54.15	55.47	74	-19.85	34.77	10.17	46.26	125	205	Peak
5460	48.5	49.82	54	-5.5	34.77	10.17	46.26	125	205	Average
5470	54.58	55.87	68.2	-13.62	34.78	10.19	46.26	125	205	Peak
5530	94.96	95.98	/	/	34.84	10.38	46.24	125	205	Peak
5530	88.95	89.97	/	/	34.84	10.38	46.24	125	205	Average
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
5460	52.86	54.35	74	-21.14	34.6	10.17	46.26	102	180	Peak
5460	47.84	49.33	54	-6.16	34.6	10.17	46.26	102	180	Average
5470	54.45	55.92	68.2	-13.75	34.6	10.19	46.26	102	180	Peak
5530	93.46	94.68	/	/	34.64	10.38	46.24	102	180	Peak
5530	87.99	89.21	/	/	34.64	10.38	46.24	102	180	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.

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

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**
5610	95.2	95.77	/	/	34.93	10.72	46.22	100	205	Peak
5610	90.02	90.59	/	/	34.93	10.72	46.22	100	205	Average
5725	54.44	54.36	68.2	-13.76	35.07	11.2	46.19	100	205	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**
5610	95.03	95.8	/	/	34.73	10.72	46.22	102	180	Peak
5610	89.16	89.93	/	/	34.73	10.72	46.22	102	180	Average
5725	53.86	53.98	68.2	-14.34	34.87	11.2	46.19	102	180	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.

Band 4:

802.11a

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

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	108.06	107.87	/	/	35.09	11.28	46.18	115	205	Peak
5745	101.88	101.69	/	/	35.09	11.28	46.18	115	205	Average
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
5745	107.32	107.33	/	/	34.89	11.28	46.18	100	180	Peak
5745	101.23	101.24	/	/	34.89	11.28	46.18	100	180	Average

REMARKS:

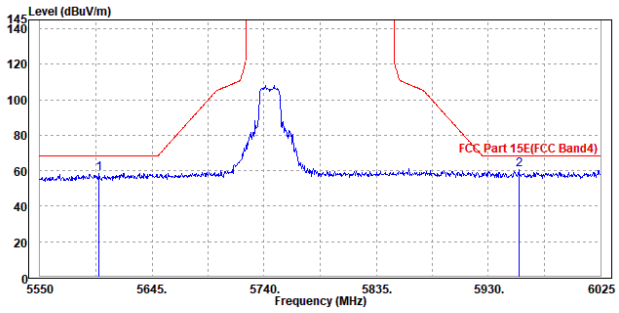
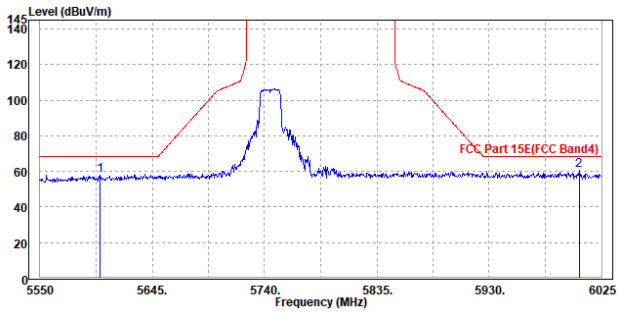
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

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
5600.35	58.7	59.32	68.2	-9.5	34.92	10.68	46.22	200	205	Peak
5955.65	60.47	59.08	68.2	-7.73	35.35	12.16	46.12	200	205	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
5600.825	57.86	58.68	68.2	-10.34	34.72	10.68	46.22	200	180	Peak
6006	60.89	59.44	68.2	-7.31	35.21	12.35	46.11	200	180	Peak

CH 149

Horiontal	Vertical
	

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

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	108.28	107.86	/	/	35.14	11.45	46.17	123	205	Peak
5785	101.27	100.85	/	/	35.14	11.45	46.17	123	205	Average
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
5785	107.5	107.28	/	/	34.94	11.45	46.17	100	180	Peak
5785	100.39	100.17	/	/	34.94	11.45	46.17	100	180	Average

REMARKS:

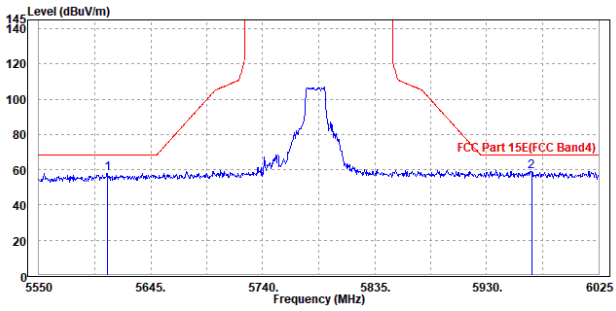
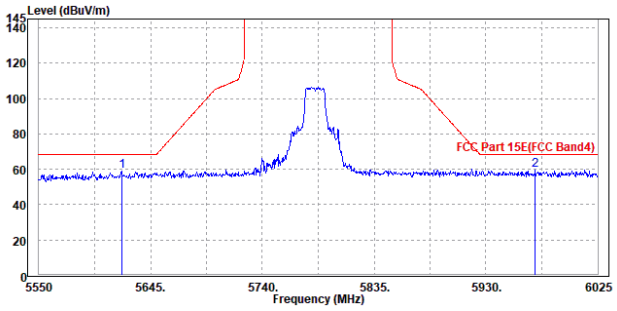
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11a

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
5607.95	57.76	58.34	68.2	-10.44	34.93	10.71	46.22	200	205	Peak
5968	59.21	57.75	68.2	-8.99	35.36	12.22	46.12	200	205	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
5620.3	58.78	59.5	68.2	-9.42	34.74	10.76	46.22	200	180	Peak
5971.8	59.29	58.01	68.2	-8.91	35.17	12.23	46.12	200	180	Peak

CH 157

Horiontal	Vertical
	

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

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	107.73	107.08	/	/	35.19	11.62	46.16	123	205	Peak
5825	100.57	99.92	/	/	35.19	11.62	46.16	123	205	Average
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	107.08	106.63	/	/	34.99	11.62	46.16	105	180	Peak
5825	100.1	99.65	/	/	34.99	11.62	46.16	105	180	Average

REMARKS:

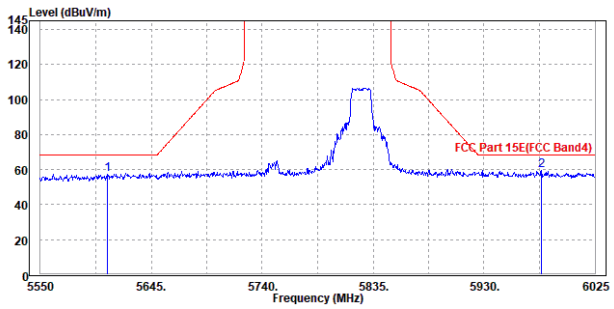
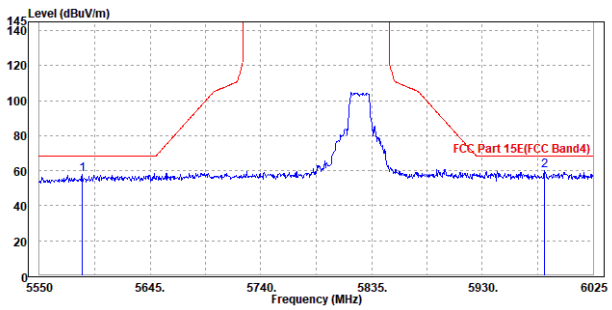
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11a

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
5607.475	57.38	57.96	68.2	-10.82	34.93	10.71	46.22	223	205	Peak
5978.925	59.31	57.8	68.2	-8.89	35.37	12.26	46.12	223	205	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
5586.575	57.75	58.66	68.2	-10.45	34.7	10.62	46.23	200	180	Peak
5983.675	60.25	58.9	68.2	-7.95	35.18	12.28	46.11	200	180	Peak

CH 165

Horiontal	Vertical
	

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										
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	107.44	107.25	/	/	35.09	11.28	46.18	123	205	Peak
5745	98.92	98.73	/	/	35.09	11.28	46.18	123	205	Average
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
5745	107.68	107.69	/	/	34.89	11.28	46.18	105	180	Peak
5745	99.94	99.95	/	/	34.89	11.28	46.18	105	180	Average

REMARKS:

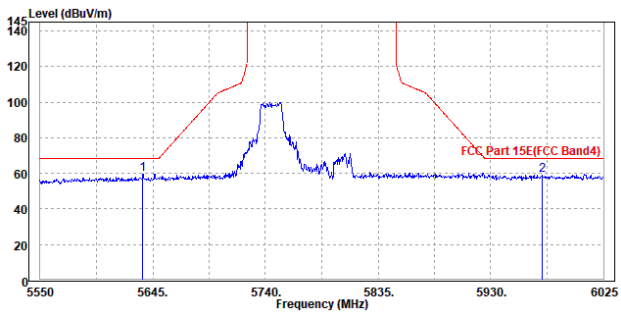
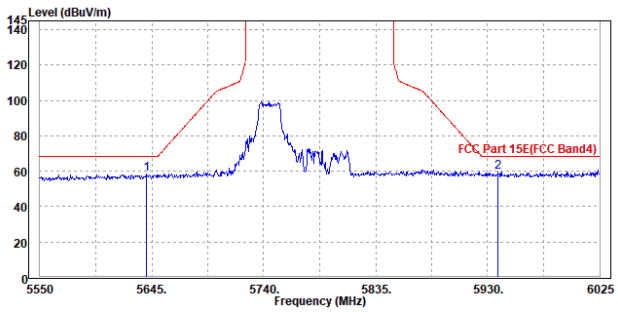
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

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
5636.45	59.58	60	68.2	-8.62	34.96	10.83	46.21	300	360	Peak
5973.225	59.06	57.57	68.2	-9.14	35.37	12.24	46.12	300	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
5640.725	58.39	58.98	68.2	-9.81	34.77	10.85	46.21	200	0	Peak
5939.025	59.44	58.35	68.2	-8.76	35.13	12.09	46.13	200	0	Peak

CH 149

Horiontal	Vertical
	

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

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	107.97	107.55	/	/	35.14	11.45	46.17	105	180	Peak
5785	98.93	98.51	/	/	35.14	11.45	46.17	105	180	Average
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**
5785	106.41	106.19	/	/	34.94	11.45	46.17	105	180	Peak
5785	99.17	98.95	/	/	34.94	11.45	46.17	105	180	Average

REMARKS:

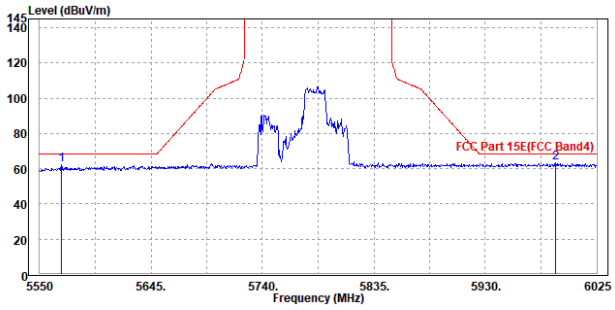
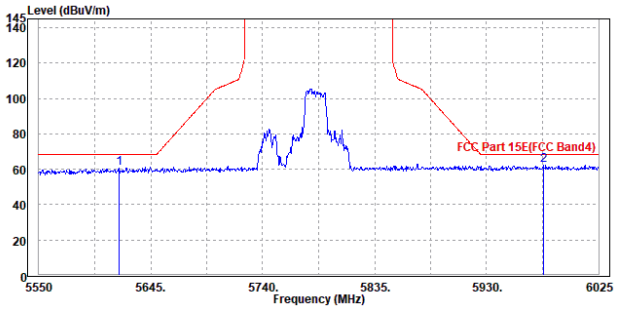
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

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
5568.525	62.2	63.01	68.2	-6	34.88	10.54	46.23	300	0	Peak
5989.85	63.43	61.84	68.2	-4.77	35.39	12.31	46.11	300	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
5617.925	60.51	61.24	68.2	-7.69	34.74	10.75	46.22	200	360	Peak
5977.975	62.25	60.94	68.2	-5.95	35.17	12.26	46.12	200	360	Peak

CH 157

Horiontal	Vertical
	

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

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	105.8	105.15	/	/	35.19	11.62	46.16	123	190	Peak
5825	98.91	98.26	/	/	35.19	11.62	46.16	123	190	Average
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	105.69	105.24	/	/	34.99	11.62	46.16	105	180	Peak
5825	97.85	97.4	/	/	34.99	11.62	46.16	105	180	Average

REMARKS:

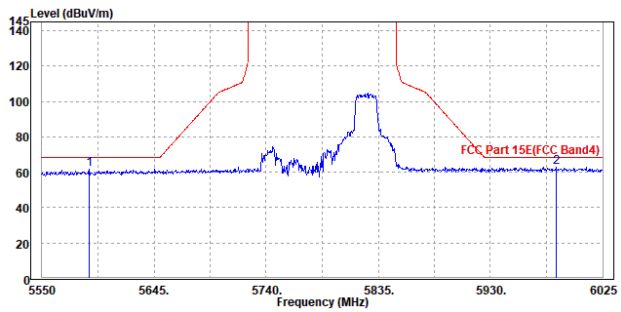
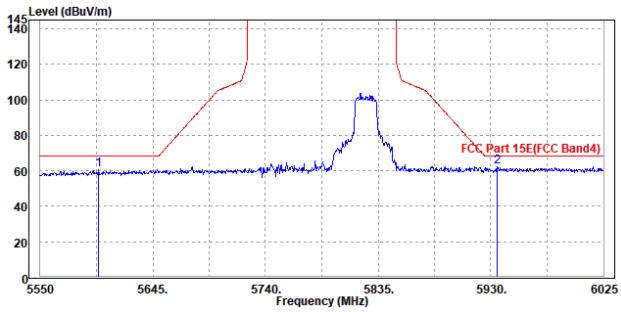
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11n (20MHZ)

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
5589.9	61.58	62.26	68.2	-6.62	34.91	10.63	46.22	300	360	Peak
5985.575	62.69	61.13	68.2	-5.51	35.38	12.29	46.11	300	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
5599.4	60.73	61.56	68.2	-7.47	34.72	10.67	46.22	200	0	Peak
5935.7	62.55	61.48	68.2	-5.65	35.12	12.08	46.13	200	0	Peak

CH 165

Horiontal	Vertical
	

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										
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	100.23	99.98	/	/	35.11	11.32	46.18	123	190	Peak
5755	93.97	93.72	/	/	35.11	11.32	46.18	123	190	Average
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
5755	99.86	99.81	/	/	34.91	11.32	46.18	105	180	Peak
5755	94.19	94.14	/	/	34.91	11.32	46.18	105	180	Average

REMARKS:

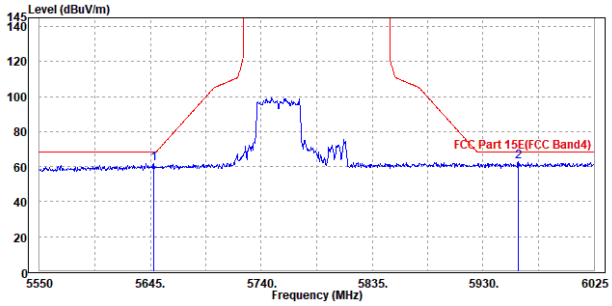
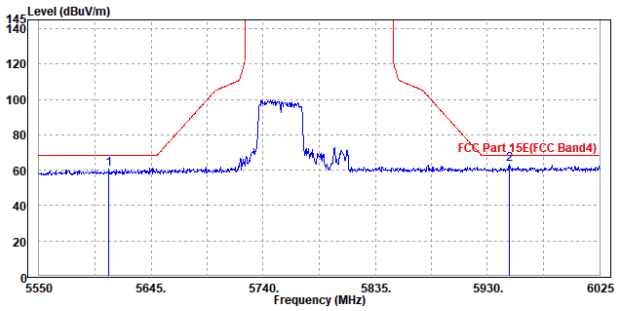
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

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
5647.85	61.87	62.22	68.2	-6.33	34.98	10.88	46.21	300	360	Peak
5959.925	63	61.59	68.2	-5.2	35.35	12.18	46.12	300	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
5609.375	60.72	61.5	68.2	-7.48	34.73	10.71	46.22	200	0	Peak
5948.525	63.25	62.1	68.2	-4.95	35.14	12.13	46.12	200	0	Peak

CH 151

Horiontal	Vertical
	

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

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	99.76	99.29	/	/	35.15	11.49	46.17	123	190	Peak
5795	92.73	92.26	/	/	35.15	11.49	46.17	123	190	Average
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	100.11	99.84	/	/	34.95	11.49	46.17	105	180	Peak
5795	93.59	93.32	/	/	34.95	11.49	46.17	105	180	Average

REMARKS:

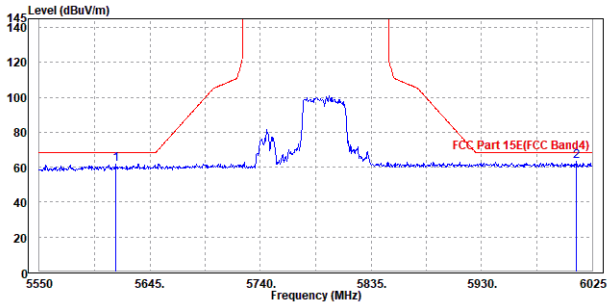
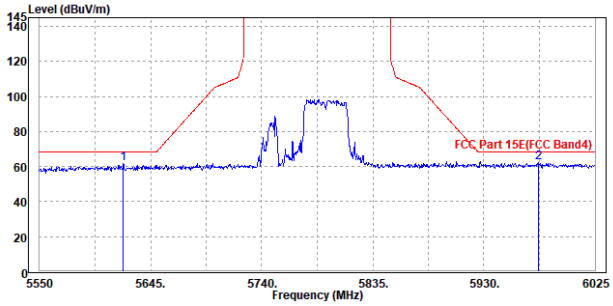
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

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
5615.55	61.55	62.09	68.2	-6.65	34.94	10.74	46.22	300	0	Peak
6011.7	63.52	61.87	68.2	-4.68	35.4	12.36	46.11	300	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
5621.725	61.84	62.54	68.2	-6.36	34.75	10.77	46.22	200	360	Peak
5977.025	62.27	60.97	68.2	-5.93	35.17	12.25	46.12	200	360	Peak

CH 159

Horiontal	Vertical
	

802.11ac (20MHz)

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

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	105.67	105.48	/	/	35.09	11.28	46.18	123	190	Peak
5745	99.04	98.85	/	/	35.09	11.28	46.18	123	190	Average
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
5745	106.52	106.53	/	/	34.89	11.28	46.18	105	180	Peak
5745	99.62	99.63	/	/	34.89	11.28	46.18	105	180	Average

REMARKS:

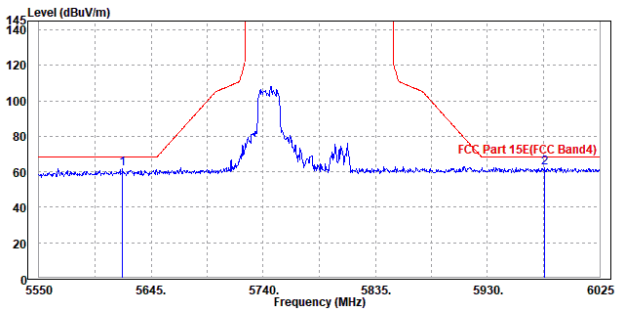
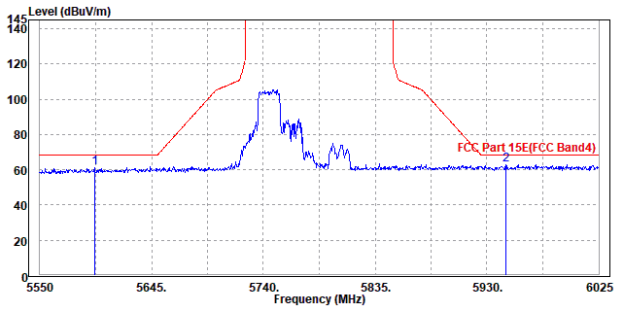
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

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
5620.775	61.78	62.3	68.2	-6.42	34.94	10.76	46.22	300	360	Peak
5978.45	62.45	60.94	68.2	-5.75	35.37	12.26	46.12	300	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
5596.55	61.31	62.15	68.2	-6.89	34.72	10.66	46.22	200	0	Peak
5946.15	63.06	61.93	68.2	-5.14	35.14	12.12	46.13	200	0	Peak

CH 149

Horiontal	Vertical
	

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

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	106.08	105.66	/	/	35.14	11.45	46.17	123	190	Peak
5785	98.34	97.92	/	/	35.14	11.45	46.17	123	190	Average
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
5785	107.69	107.47	/	/	34.94	11.45	46.17	105	180	Peak
5785	99.88	99.66	/	/	34.94	11.45	46.17	105	180	Average

REMARKS:

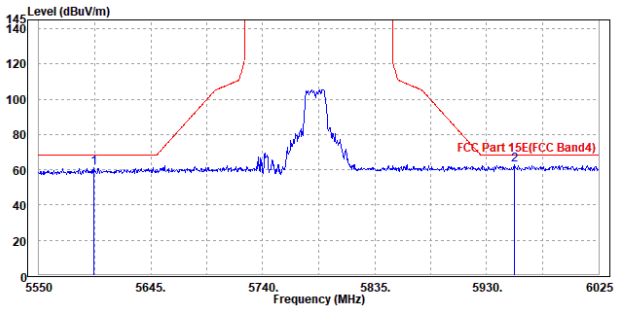
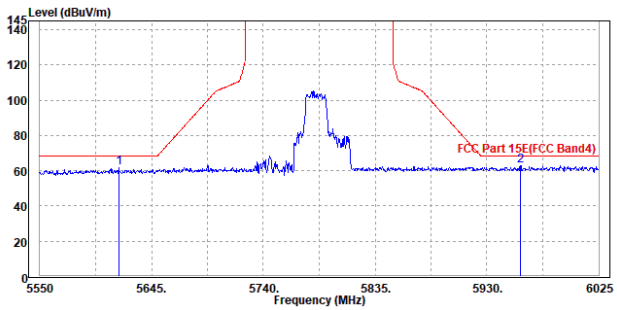
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

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
5597.025	61.28	61.92	68.2	-6.92	34.92	10.66	46.22	300	0	Peak
5953.75	63.06	61.68	68.2	-5.14	35.34	12.16	46.12	300	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
5616.975	61.59	62.32	68.2	-6.61	34.74	10.75	46.22	200	360	Peak
5958.5	63.07	61.86	68.2	-5.13	35.15	12.18	46.12	200	360	Peak

CH 157

Horiontal	Vertical
	

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

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	106.01	105.36	/	/	35.19	11.62	46.16	123	190	Peak
5825	99.19	98.54	/	/	35.19	11.62	46.16	123	190	Average
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	107.2	106.75	/	/	34.99	11.62	46.16	105	180	Peak
5825	100.29	99.84	/	/	34.99	11.62	46.16	105	180	Average

REMARKS:

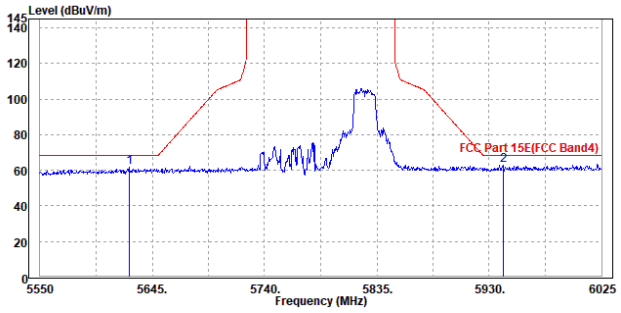
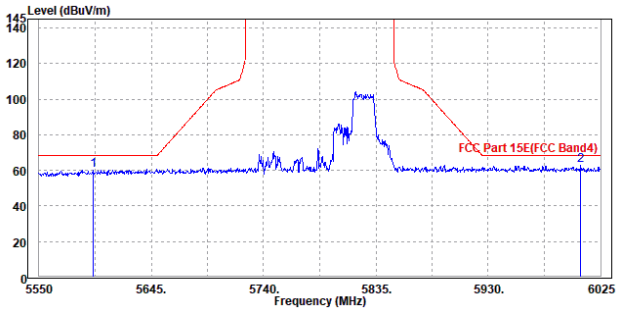
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5825MHz: Fundamental frequency.

OOBE DATA

802.11ac (20MHZ)

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
5625.525	61.52	62	68.2	-6.68	34.95	10.78	46.21	300	360	Peak
5942.35	63.01	61.7	68.2	-5.19	35.33	12.11	46.13	300	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
5595.6	60.36	61.21	68.2	-7.84	34.71	10.66	46.22	200	0	Peak
6008.375	62.59	61.13	68.2	-5.61	35.21	12.36	46.11	200	0	Peak

CH 165

Horiontal	Vertical
	

802.11ac (40MHz)

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

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
5755	99.11	98.86	/	/	35.11	11.32	46.18	123	190	Peak
5755	90.6	90.35	/	/	35.11	11.32	46.18	123	190	Average
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
5755	98.8	98.75	/	/	34.91	11.32	46.18	105	180	Peak
5755	92.72	92.67	/	/	34.91	11.32	46.18	105	180	Average

REMARKS:

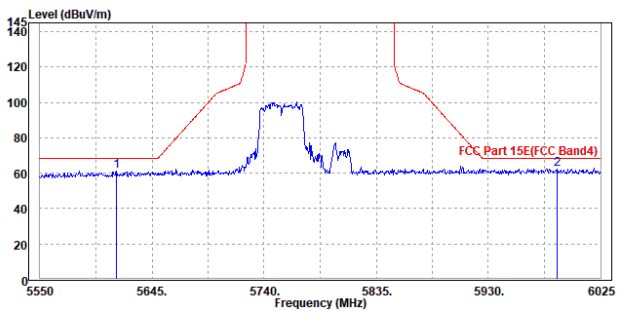
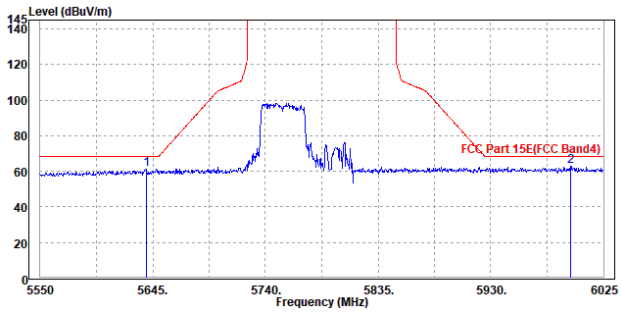
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.

OOBE DATA

802.11ac (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
5615.075	61.33	61.87	68.2	-6.87	34.94	10.74	46.22	300	0	Peak
5988.425	62.47	60.89	68.2	-5.73	35.39	12.3	46.11	300	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
5639.3	61.2	61.8	68.2	-7	34.77	10.84	46.21	200	360	Peak
5997.45	62.9	61.47	68.2	-5.3	35.2	12.34	46.11	200	360	Peak

CH 151

Horiontal	Vertical
	

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

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	98.95	98.48	/	/	35.15	11.49	46.17	123	190	Peak
5795	92.65	92.18	/	/	35.15	11.49	46.17	123	190	Average
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	99.74	99.47	/	/	34.95	11.49	46.17	105	180	Peak
5795	93.17	92.9	/	/	34.95	11.49	46.17	105	180	Average

REMARKS:

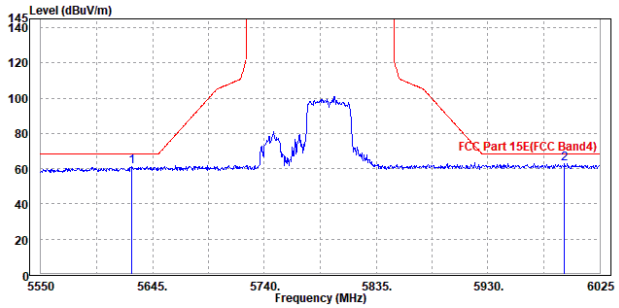
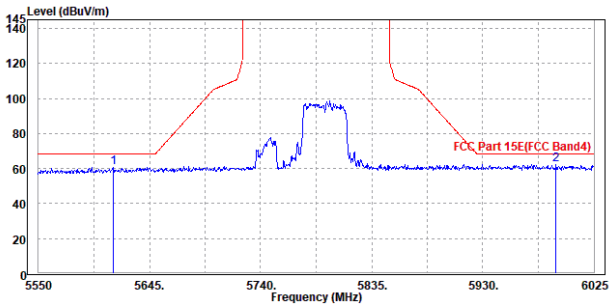
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.

OOBE DATA

802.11ac (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
5627.425	61.24	61.71	68.2	-6.96	34.95	10.79	46.21	300	360	Peak
5995.075	62.87	61.26	68.2	-5.33	35.39	12.33	46.11	300	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
5613.65	60.58	61.33	68.2	-7.62	34.74	10.73	46.22	200	0	Peak
5992.7	62.5	61.1	68.2	-5.7	35.19	12.32	46.11	200	0	Peak

CH 159

Horiontal	Vertical
	

802.11ac (80MHz)

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

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	95.54	95.17	/	/	35.13	11.41	46.17	123	190	Peak
5775	90.88	90.51	/	/	35.13	11.41	46.17	123	190	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
5775	96.5	96.33	/	/	34.93	11.41	46.17	105	180	Peak
5775	91.17	91	/	/	34.93	11.41	46.17	105	180	Average

REMARKS:

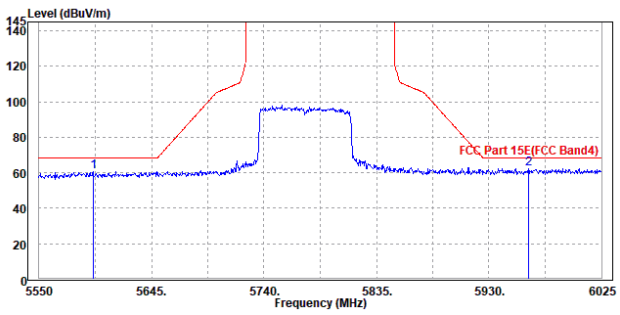
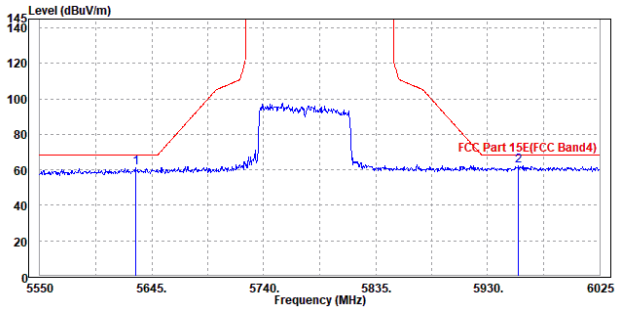
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

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
5595.6	60.8	61.45	68.2	-7.4	34.91	10.66	46.22	300	0	Peak
5963.725	62.55	61.11	68.2	-5.65	35.36	12.2	46.12	300	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
5631.225	61.27	61.91	68.2	-6.93	34.76	10.81	46.21	200	360	Peak
5956.125	62.19	60.99	68.2	-6.01	35.15	12.17	46.12	200	360	Peak

CH 155

Horiontal	Vertical
	

3.2 OUT OF BAND EMISSION MEASUREMENT

3.2.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

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

NOTE:

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

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

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

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

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

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

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 03,21	Jun. 02,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 03,21	Jun. 02,22

NOTE:

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

3.2.3 TEST PROCEDURES

a. Cheak the calibration of the measurement instrument using either an internal calibrator or a known signal from an external generator.

b. The resolution bandwidth is set to 1MHzThe Video bandwidth is set to ≥1MHz, report the peak value out of oprating band.

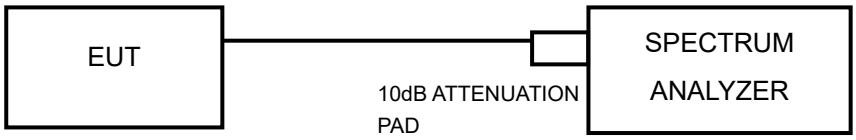
c. Repeat above procedures until all frequencies measured wre complete.

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

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



3.2.6 EUT OPERATING CONDITION

a. Set the EUT under full load condition and placed them on a testing table.

b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

c. The necessary accessories enable the EUT in full functions.

3.2.7 TEST RESULTS

Please Refer to Appendix D Of this test report.

3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 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.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Mar. 03,21	Mar. 02,22
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 25,21	Feb. 24,22

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

3.3.3 TEST PROCEDURES

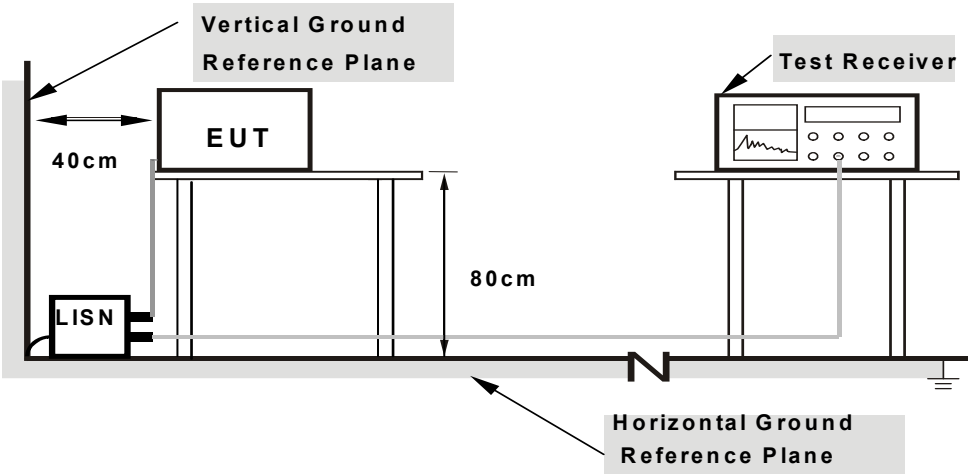
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



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

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

3.3.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.3.7 TEST RESULTS

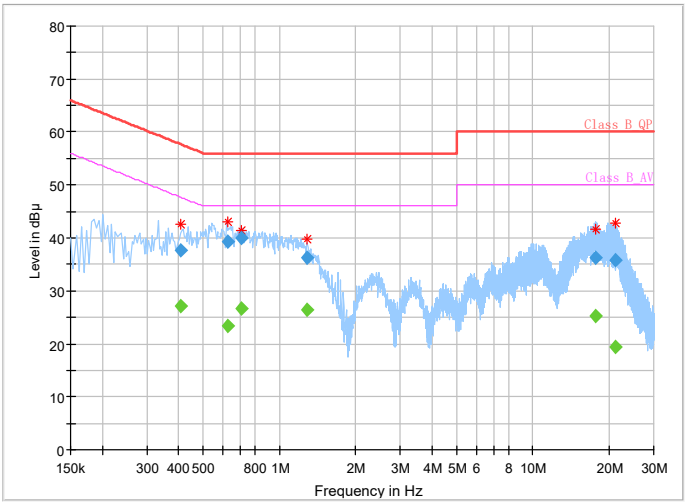
CONDUCTED WORST-CASE DATA :

Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Carl xie		

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.408000	---	27.24	47.69	20.45	N	ON	9.7
0.408000	37.59	---	57.69	20.10	N	ON	9.7
0.624000	---	23.33	46.00	22.67	N	ON	9.7
0.624000	39.32	---	56.00	16.68	N	ON	9.7
0.712000	---	26.71	46.00	19.29	N	ON	9.7
0.712000	40.07	---	56.00	15.93	N	ON	9.7
1.284000	---	26.37	46.00	19.63	N	ON	9.8
1.284000	36.28	---	56.00	19.72	N	ON	9.8
17.620000	---	25.17	50.00	24.83	N	ON	9.9
17.620000	36.35	---	60.00	23.65	N	ON	9.9
21.136000	---	19.40	50.00	30.60	N	ON	9.9
21.136000	35.78	---	60.00	24.22	N	ON	9.9

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 = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

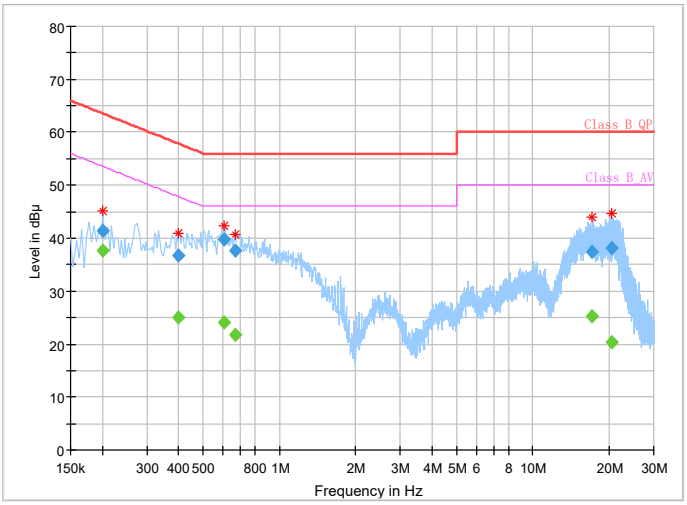


Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Carl xie		

Frequency (MHz)	QuasiPeak (dB¦ÌV)	CAverage (dB¦ÌV)	Limit (dB¦ÌV)	Margin (dB)	Line	Filter	Corr. (dB)
0.202000	---	37.66	53.53	15.87	L1	ON	9.7
0.202000	41.36	---	63.53	22.17	L1	ON	9.7
0.400000	---	25.01	47.85	22.84	L1	ON	9.7
0.400000	36.67	---	57.85	21.18	L1	ON	9.7
0.608000	---	24.18	46.00	21.82	L1	ON	9.7
0.608000	39.73	---	56.00	16.27	L1	ON	9.7
0.668000	---	21.67	46.00	24.33	L1	ON	9.7
0.668000	37.63	---	56.00	18.37	L1	ON	9.7
17.156000	---	25.32	50.00	24.68	L1	ON	9.8
17.156000	37.47	---	60.00	22.53	L1	ON	9.8
20.540000	---	20.29	50.00	29.71	L1	ON	9.8
20.540000	38.07	---	60.00	21.93	L1	ON	9.8

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 = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



3.4 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.4.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

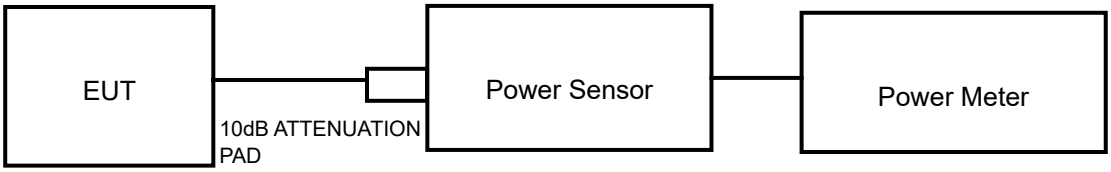
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)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

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

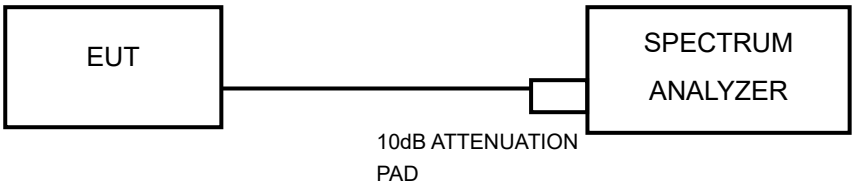
3.4.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

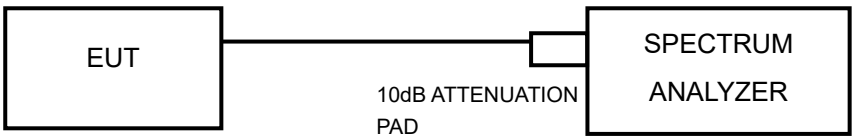
802.11a, 802.11n/ac (20MHz), 802.11n/ac (40MHz) TEST CONFIGURATION



11ac TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 25,21	Feb. 24,22
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Apr. 26,21	Apr. 25,22
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 25,21	Feb. 24,22
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 25,21	Feb. 24,22

NOTE:

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

3.4.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n/ac (20MHz), 802.11n/ac (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 ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ 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.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

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

3.4.7 TEST RESULTS

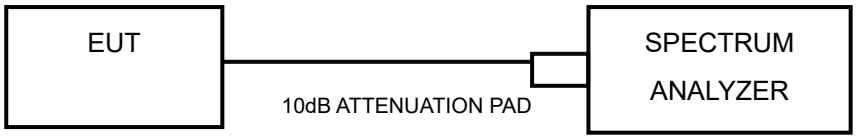
Please Refer to Appendix A/B Of this test report.

3.5 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURES

Using method SA-2

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

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.5.7 TEST RESULTS

Please Refer to Appendix C Of this test report.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

6 Appendix

APPENDIX A1: EMISSION BANDWIDTH

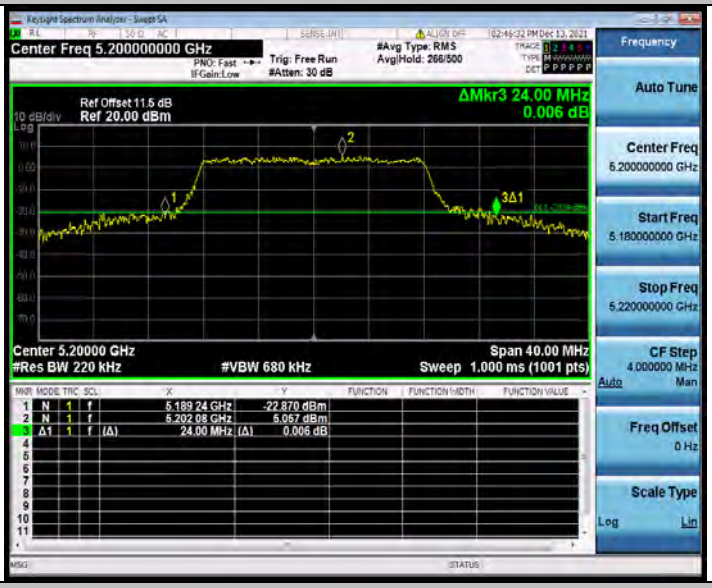
TEST RESULT

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.400	5167.920	5194.320	---	PASS
		5200	24.000	5189.240	5213.240	---	PASS
		5240	28.280	5226.960	5255.240	---	PASS
		5260	27.480	5246.920	5274.400	---	PASS
		5300	26.080	5287.080	5313.160	---	PASS
		5320	28.400	5305.520	5333.920	---	PASS
		5500	26.800	5486.040	5512.840	---	PASS
		5580	26.720	5566.680	5593.400	---	PASS
		5700	29.840	5684.640	5714.480	---	PASS
		5745	27.680	5730.840	5758.520	---	PASS
		5785	31.280	5768.800	5800.080	---	PASS
		5825	31.840	5808.840	5840.680	---	PASS
11N20SISO	Ant1	5180	31.640	5164.840	5196.480	---	PASS
		5200	27.760	5186.760	5214.520	---	PASS
		5240	32.280	5223.120	5255.400	---	PASS
		5260	30.240	5243.960	5274.200	---	PASS
		5300	28.960	5285.560	5314.520	---	PASS
		5320	27.840	5306.040	5333.880	---	PASS
		5500	26.840	5486.880	5513.720	---	PASS
		5580	29.120	5566.400	5595.520	---	PASS
		5700	28.240	5686.400	5714.640	---	PASS
		5745	31.240	5729.520	5760.760	---	PASS
		5785	31.160	5768.280	5799.440	---	PASS
		5825	35.960	5806.880	5842.840	---	PASS
11N40SISO	Ant1	5190	48.720	5164.480	5213.200	---	PASS
		5230	52.800	5207.280	5260.080	---	PASS
		5270	45.520	5247.360	5292.880	---	PASS
		5310	50.560	5286.320	5336.880	---	PASS
		5510	51.920	5483.440	5535.360	---	PASS

		5550	47.760	5528.560	5576.320	---	PASS
		5670	48.320	5644.720	5693.040	---	PASS
		5755	62.400	5727.320	5789.720	---	PASS
		5795	56.080	5768.360	5824.440	---	PASS
11AC20SISO	Ant1	5180	28.240	5166.080	5194.320	---	PASS
		5200	28.000	5186.240	5214.240	---	PASS
		5240	27.480	5227.240	5254.720	---	PASS
		5260	28.800	5246.360	5275.160	---	PASS
		5300	30.040	5285.680	5315.720	---	PASS
		5320	27.800	5306.800	5334.600	---	PASS
		5500	30.680	5484.280	5514.960	---	PASS
		5580	27.000	5566.120	5593.120	---	PASS
		5700	26.440	5686.360	5712.800	---	PASS
		5745	33.480	5728.360	5761.840	---	PASS
		5785	32.080	5769.520	5801.600	---	PASS
		5825	31.640	5807.760	5839.400	---	PASS
11AC40SISO	Ant1	5190	40.000	5170.160	5210.160	---	PASS
		5230	43.280	5207.600	5250.880	---	PASS
		5270	41.360	5249.760	5291.120	---	PASS
		5310	40.560	5290.080	5330.640	---	PASS
		5510	42.000	5488.480	5530.480	---	PASS
		5550	41.200	5528.960	5570.160	---	PASS
		5670	42.000	5650.080	5692.080	---	PASS
		5755	40.800	5734.200	5775.000	---	PASS
		5795	40.240	5774.520	5814.760	---	PASS
11AC80SISO	Ant1	5210	82.560	5169.040	5251.600	---	PASS
		5290	82.880	5249.040	5331.920	---	PASS
		5530	84.320	5487.920	5572.240	---	PASS
		5610	87.200	5565.360	5652.560	---	PASS
		5775	81.600	5734.360	5815.960	---	PASS

TEST GRAPHS

11A_Ant1_5180



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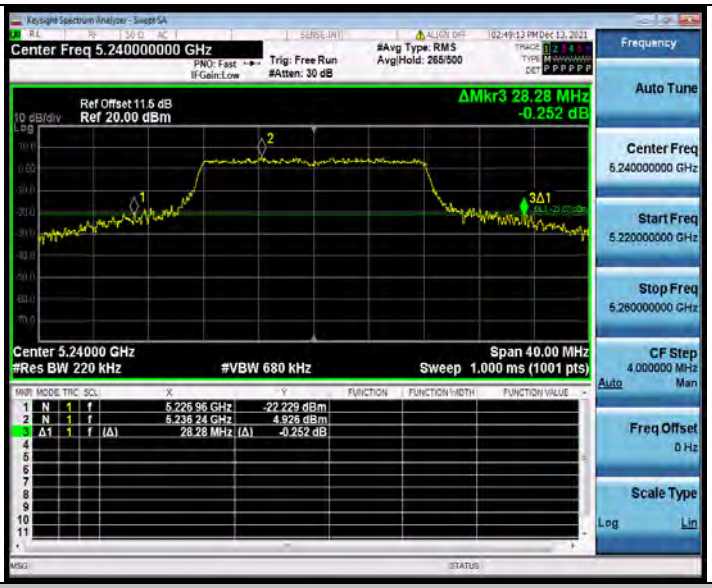

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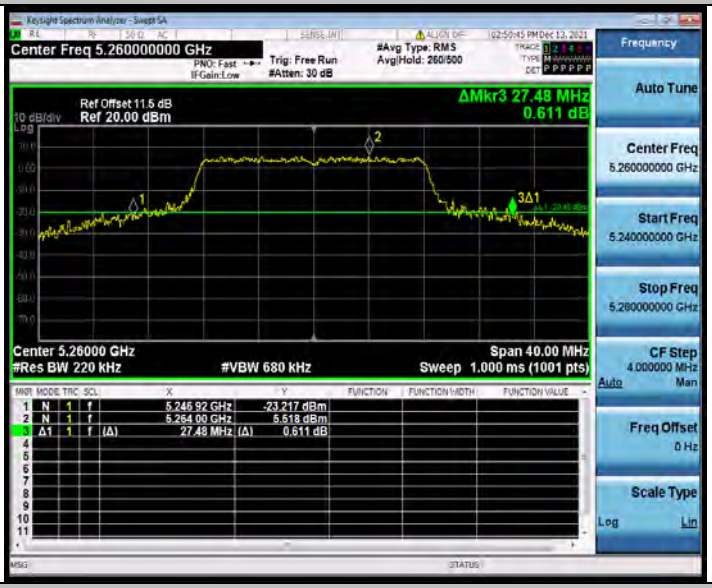

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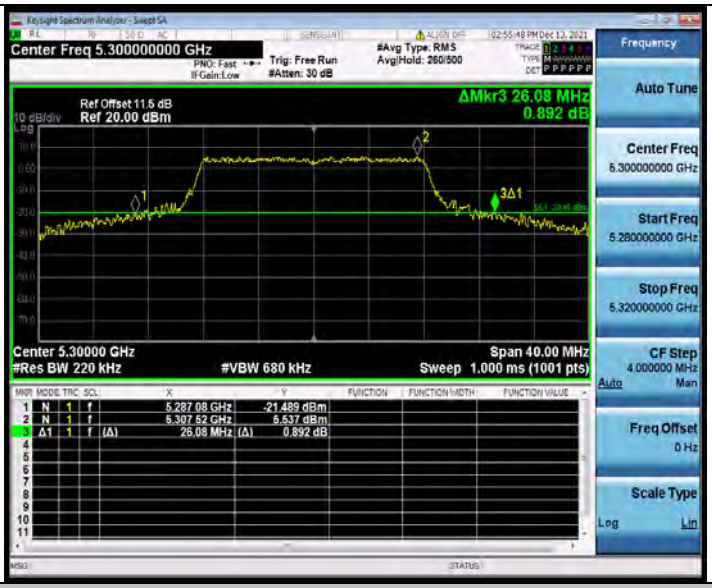

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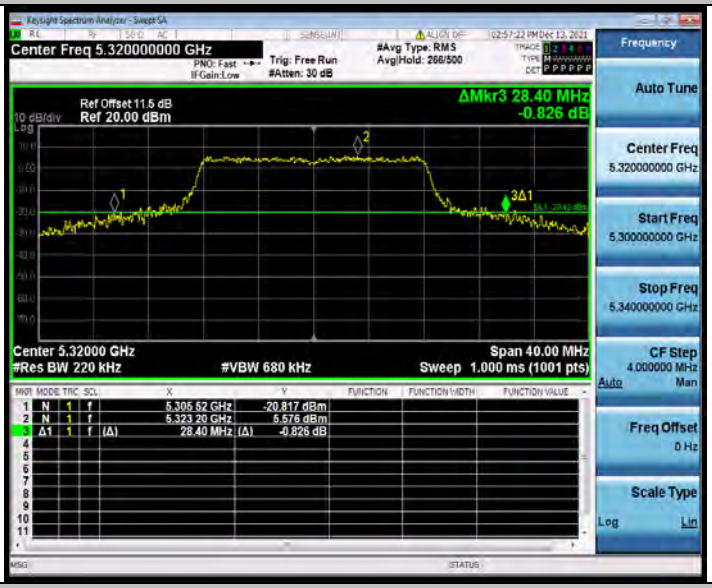

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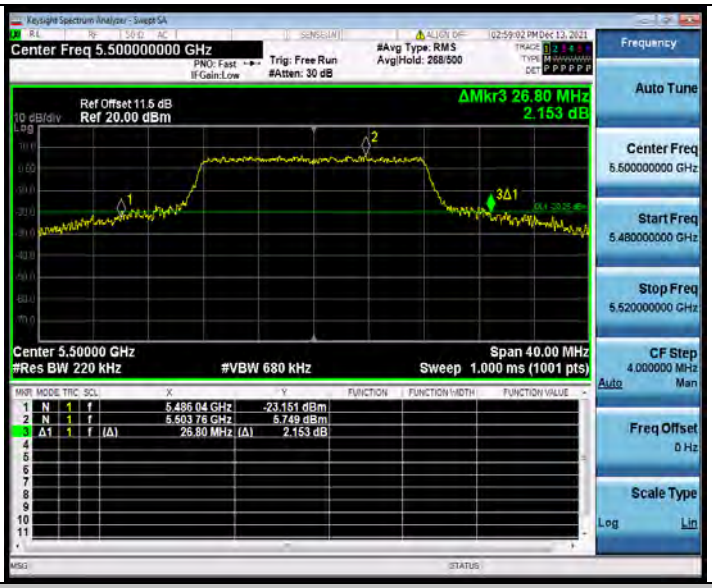

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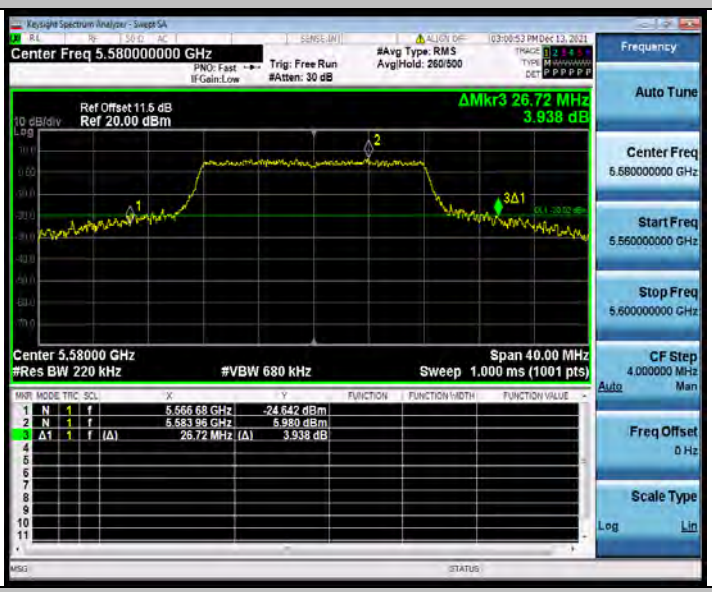

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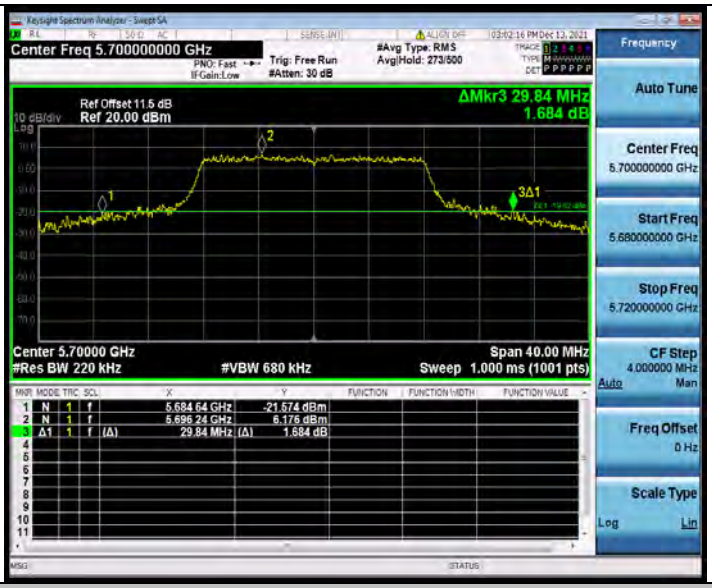

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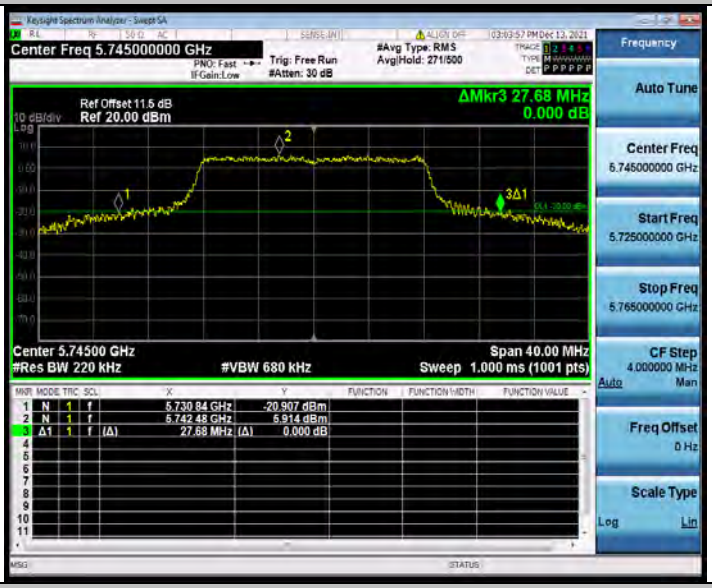

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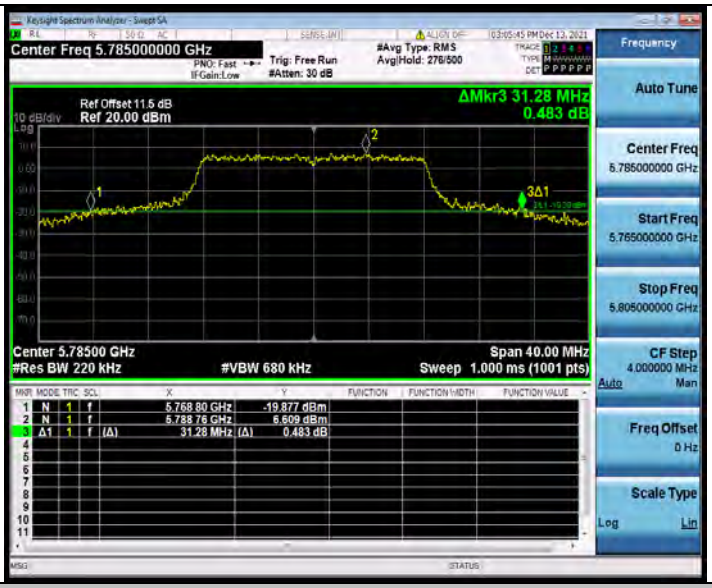

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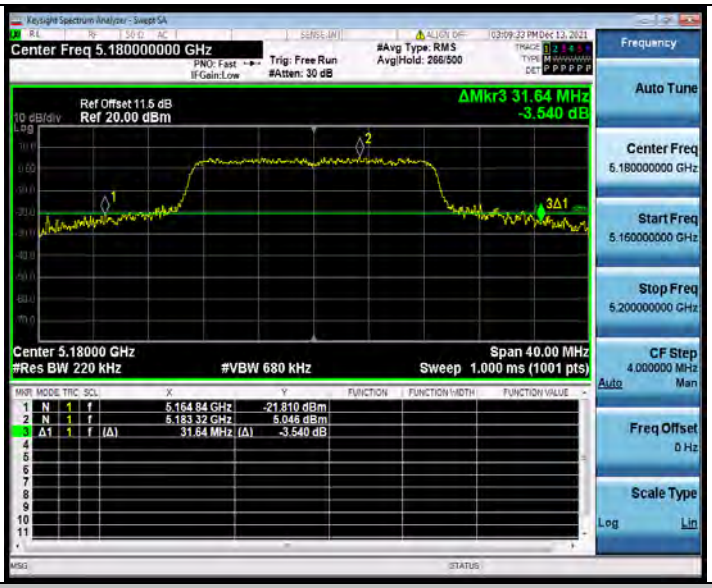

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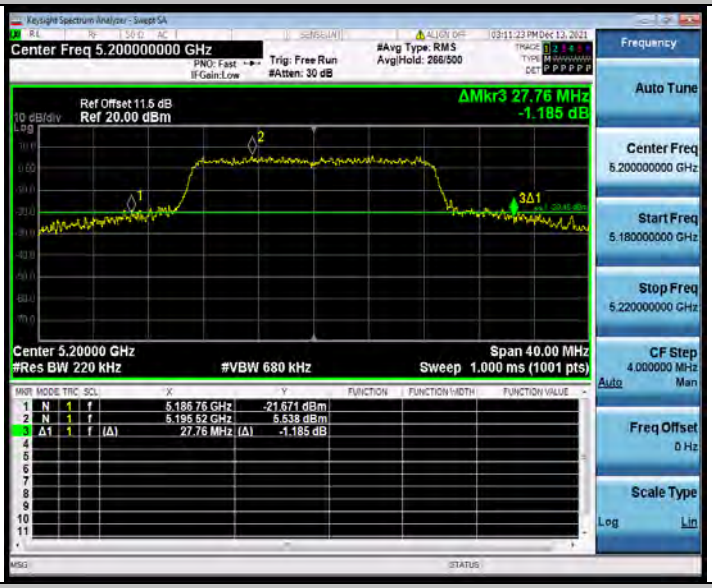

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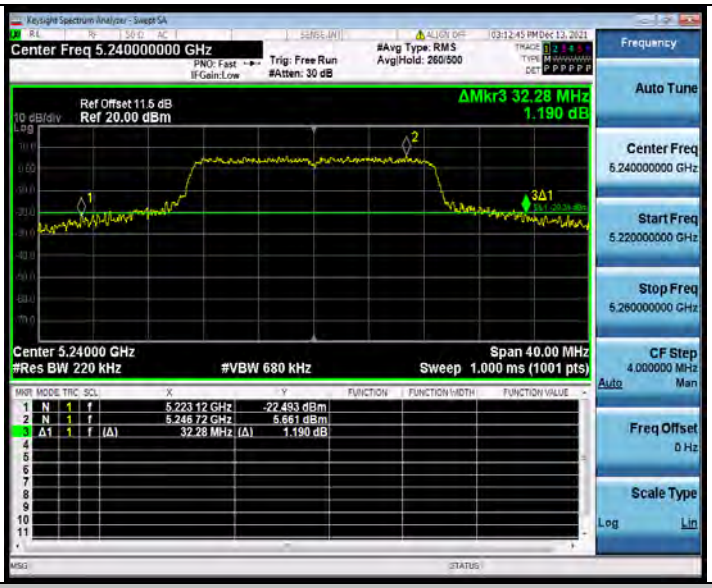

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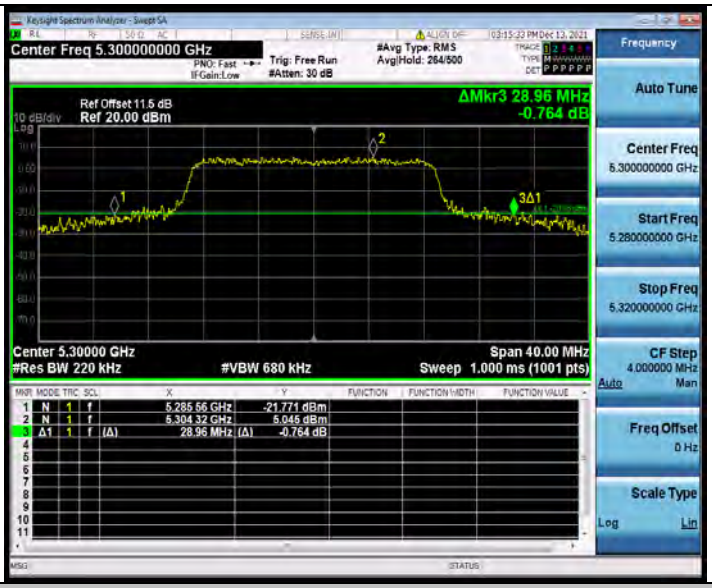

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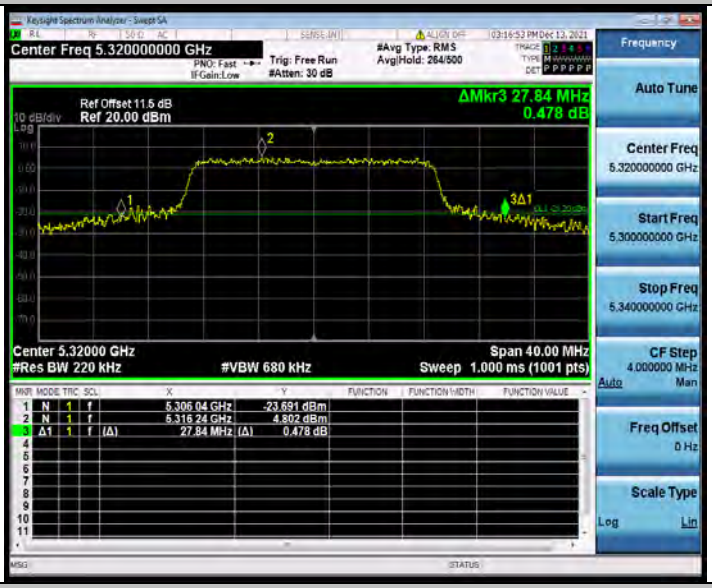

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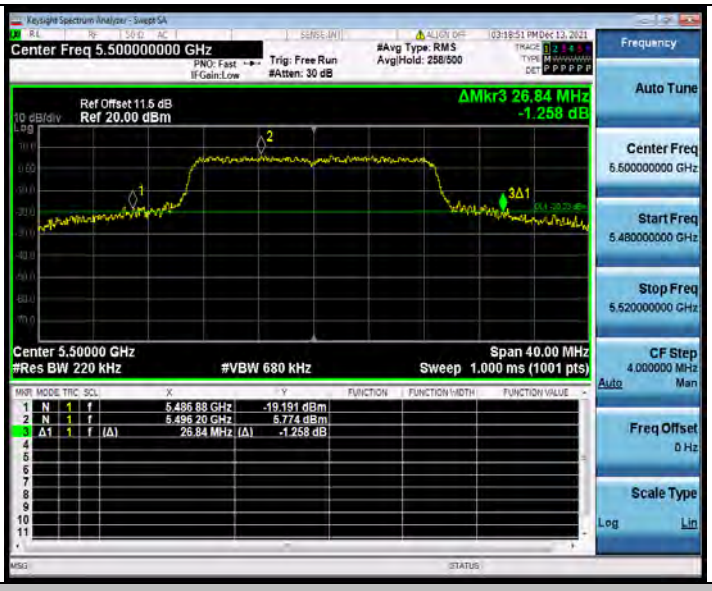

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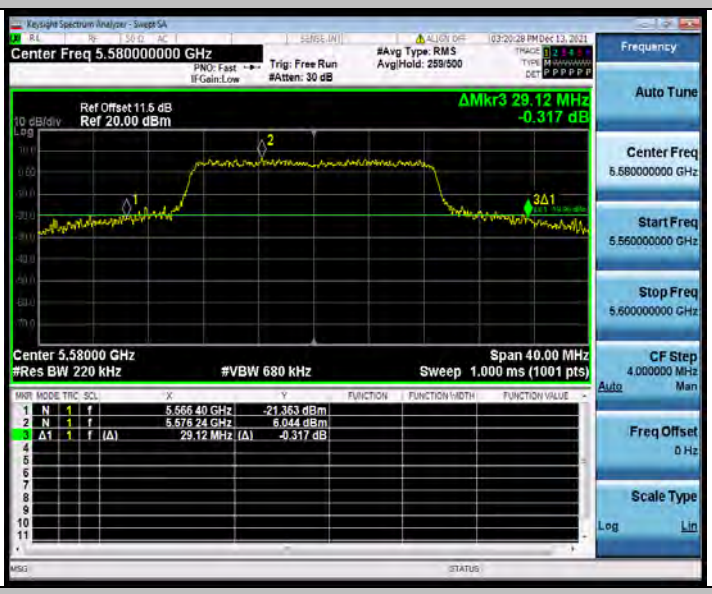

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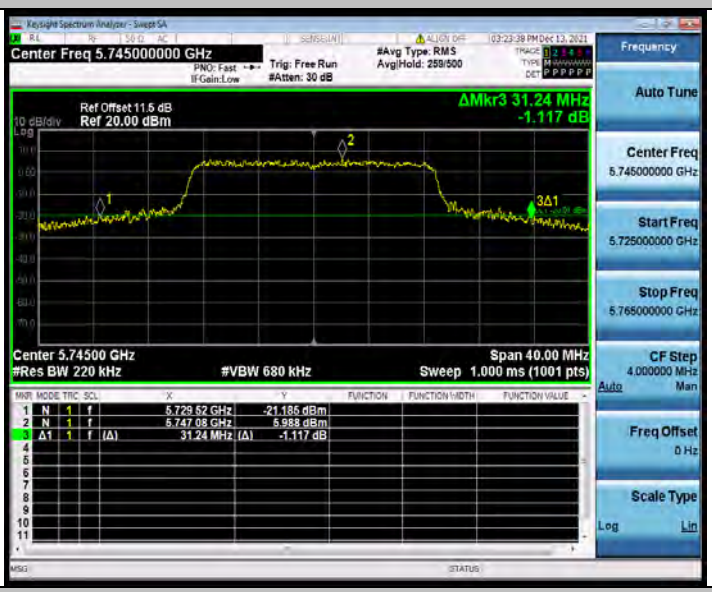

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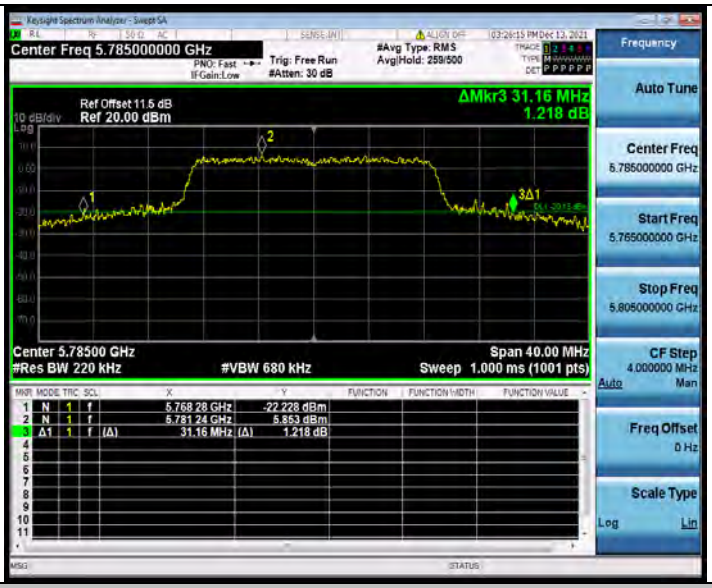

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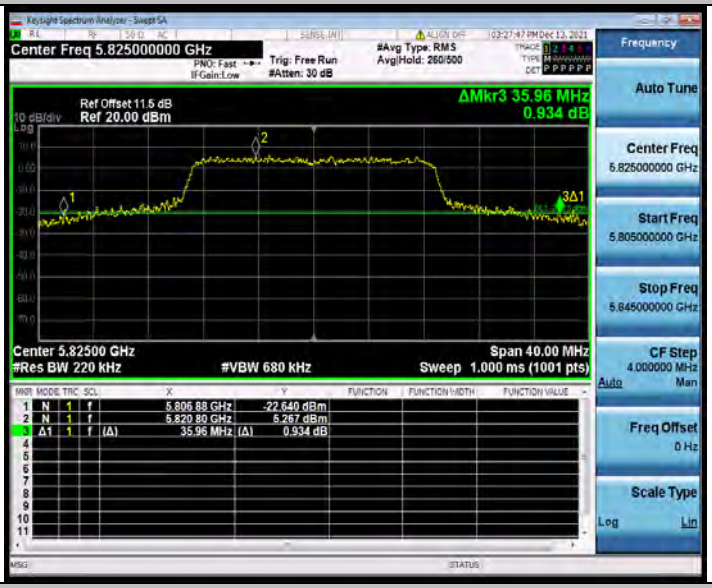

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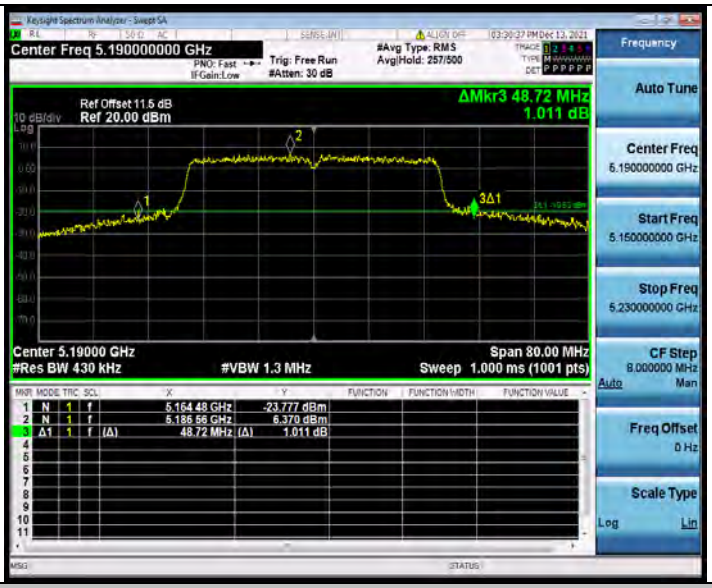

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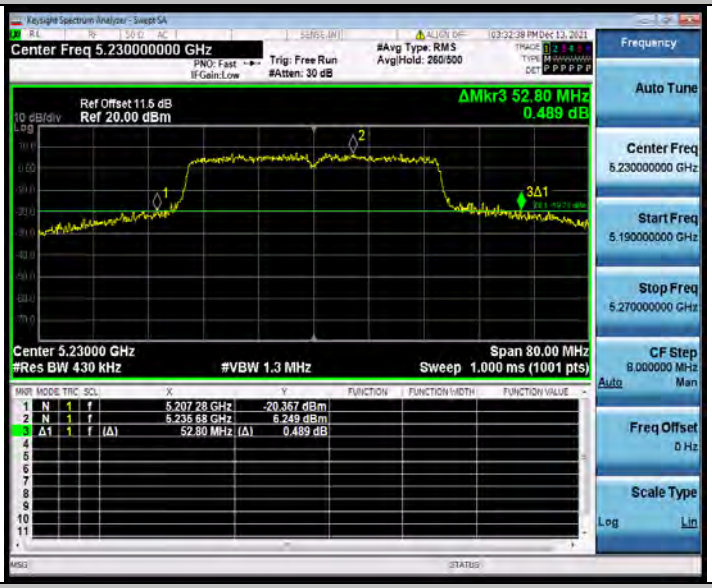

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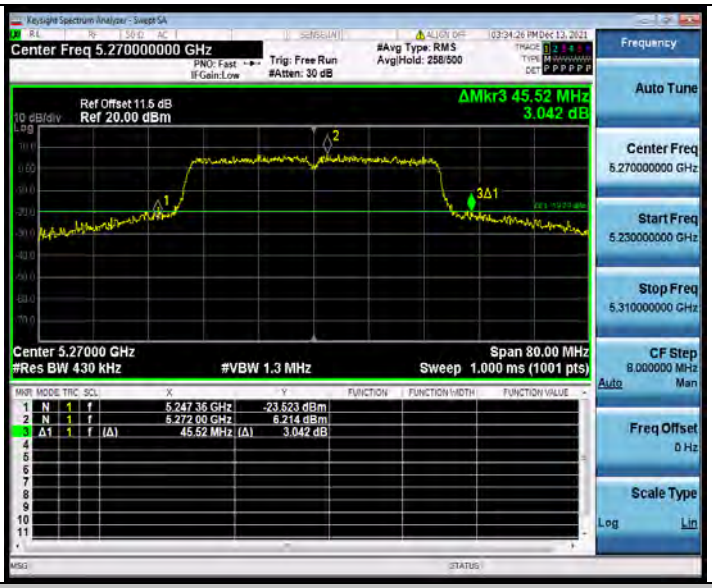

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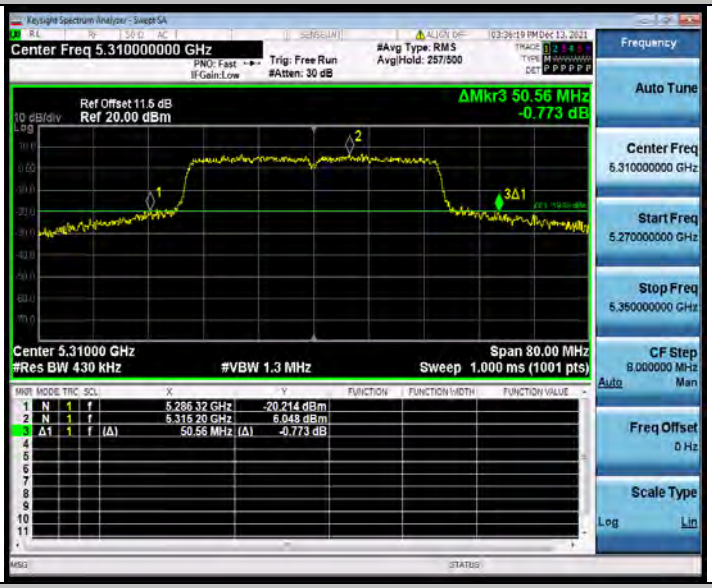

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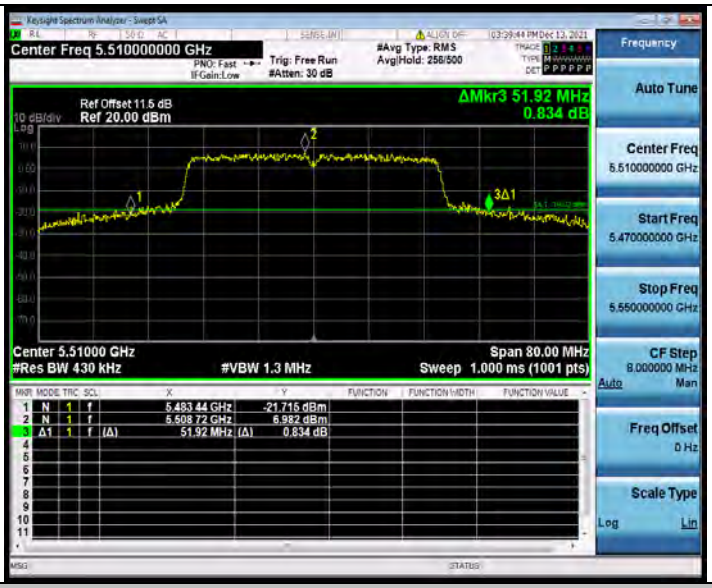

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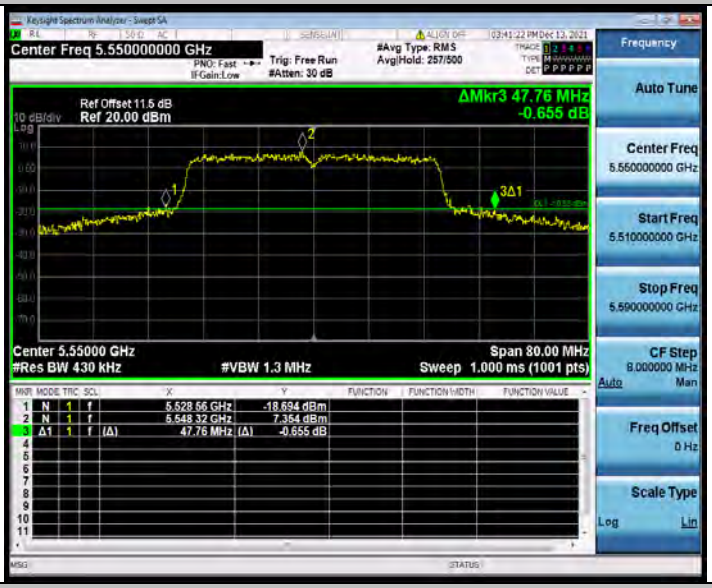

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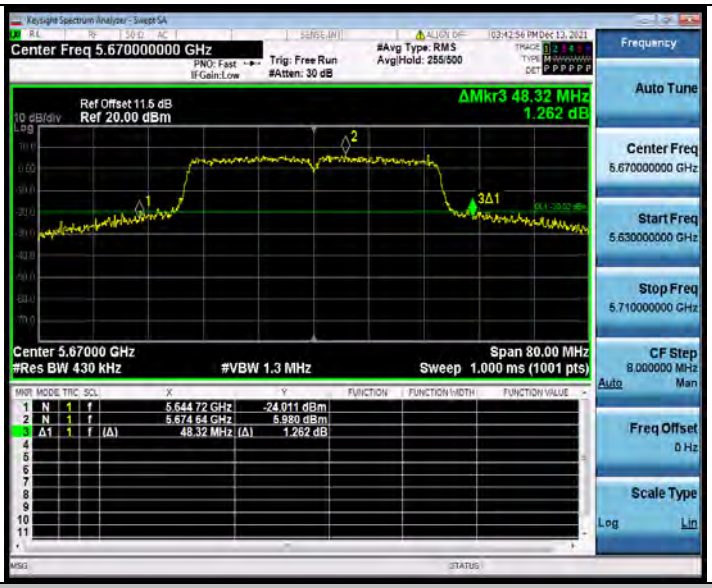
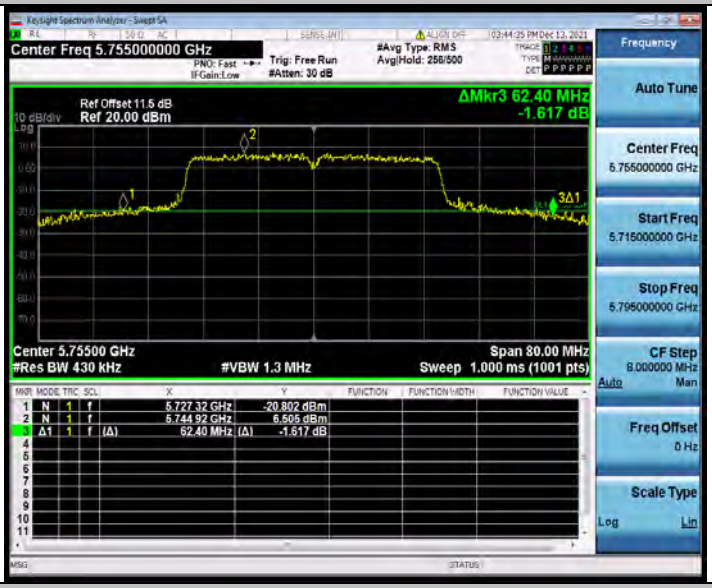
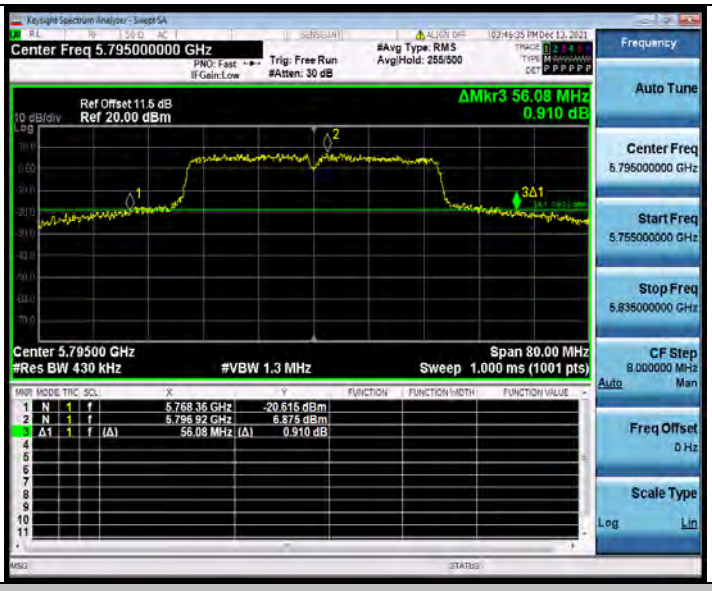


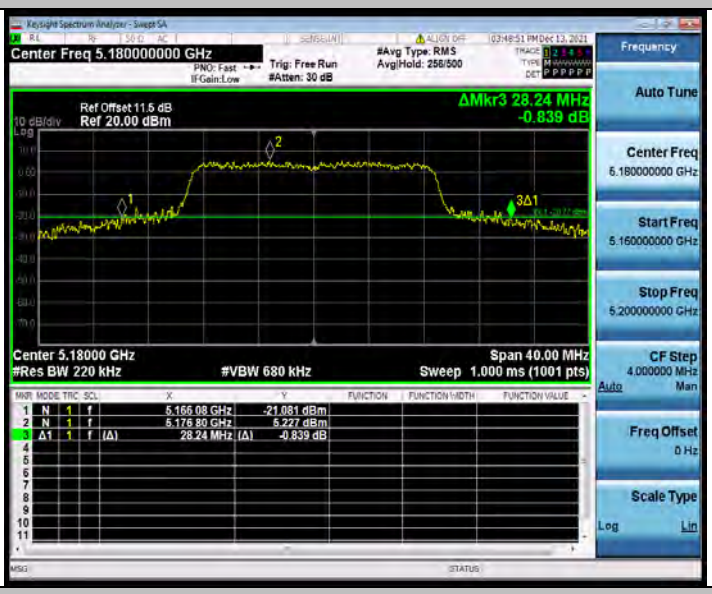
11N40SISO_Ant1_5670



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

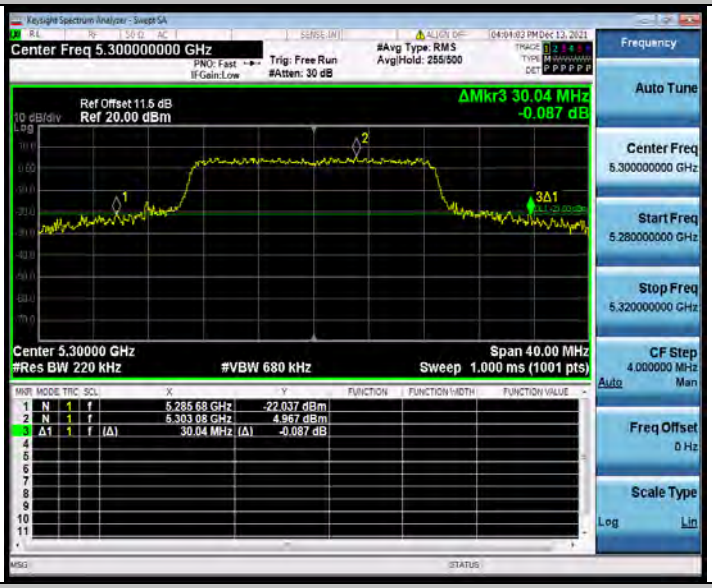


11AC20SISO_Ant1_5180

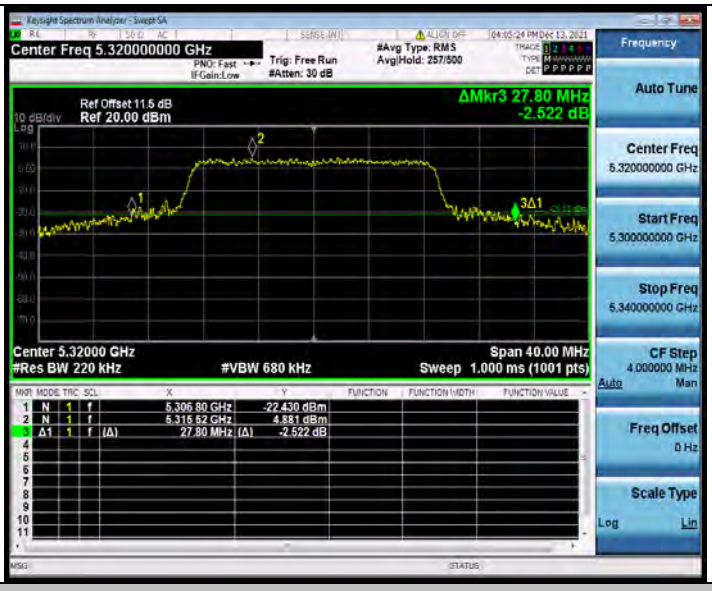
11AC20SISO_Ant1_5200

11AC20SISO_Ant1_5240

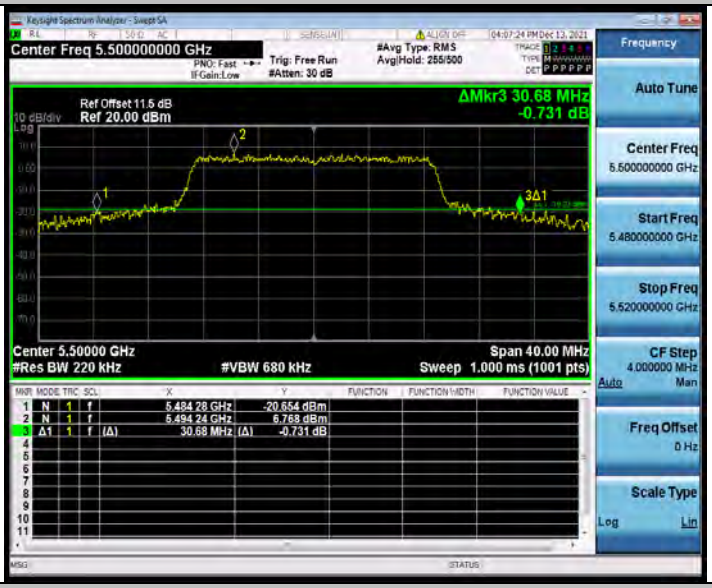
11AC20SISO_Ant1_5260



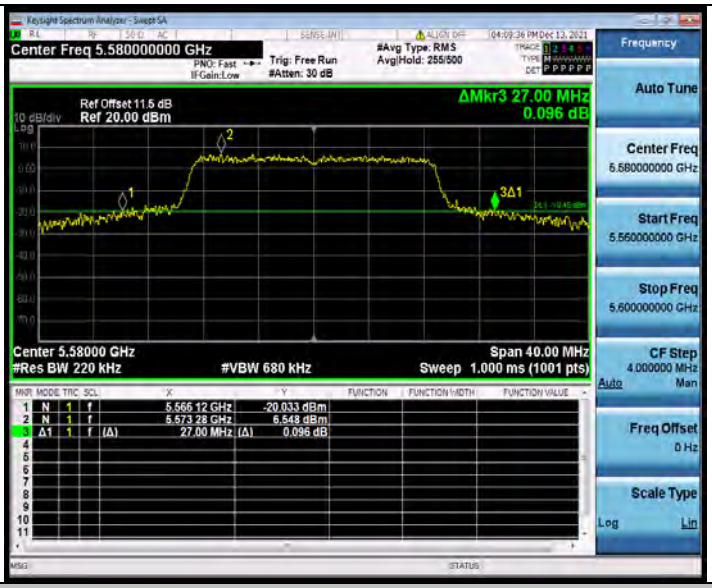
11AC20SISO_Ant1_5300



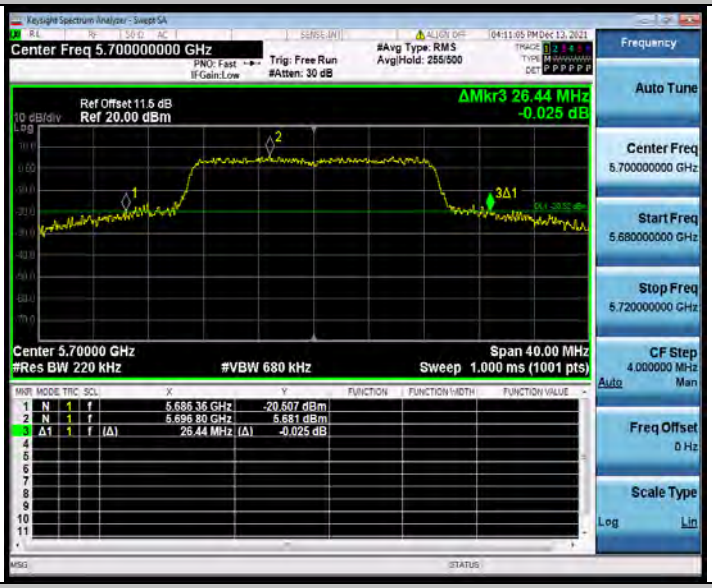
11AC20SISO_Ant1_5320



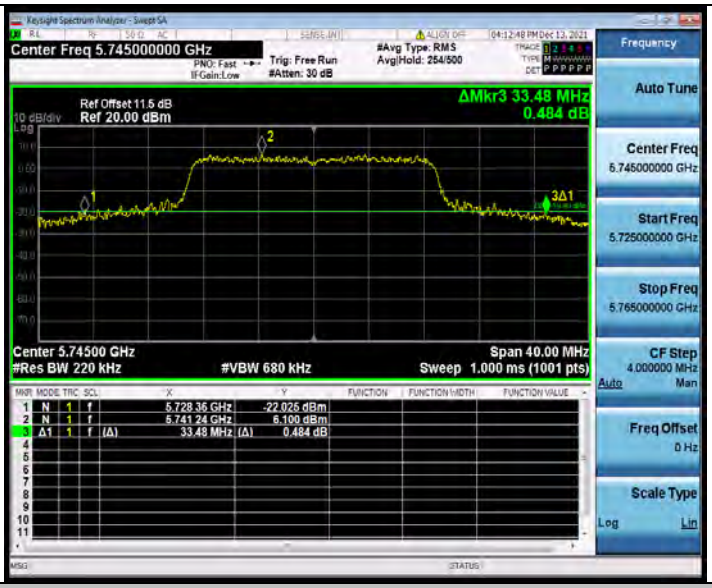
11AC20SISO_Ant1_5500



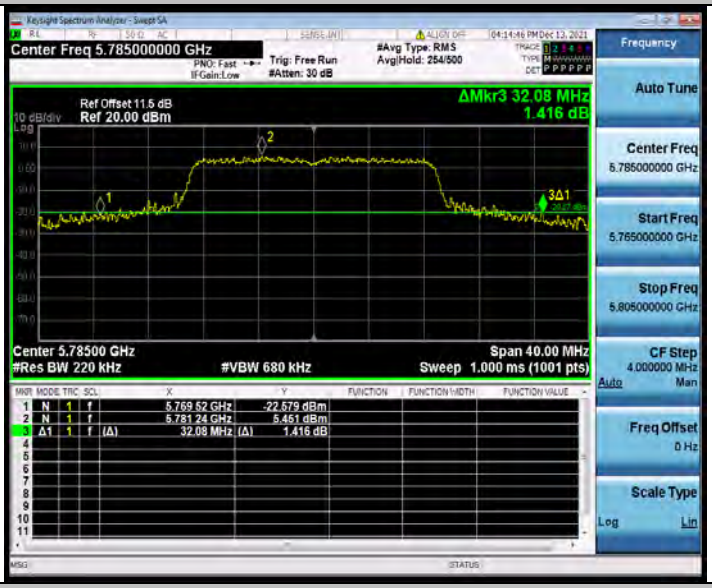
11AC20SISO_Ant1_5580



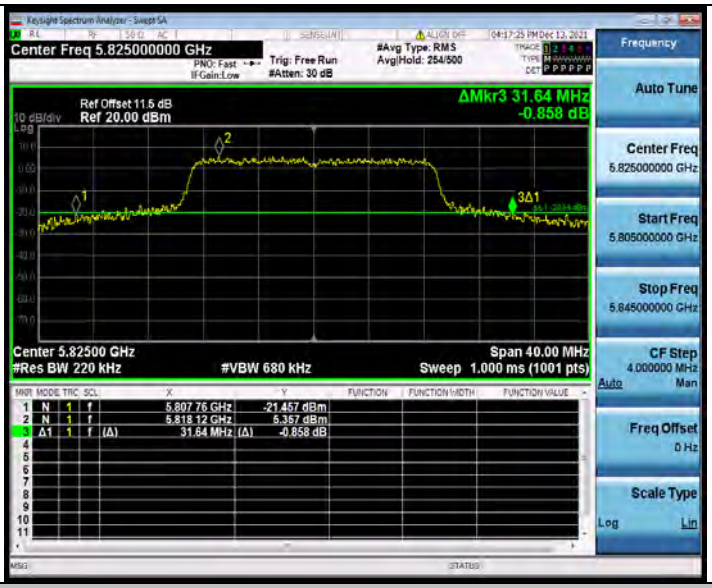
11AC20SISO_Ant1_5700



11AC20SISO_Ant1_5745



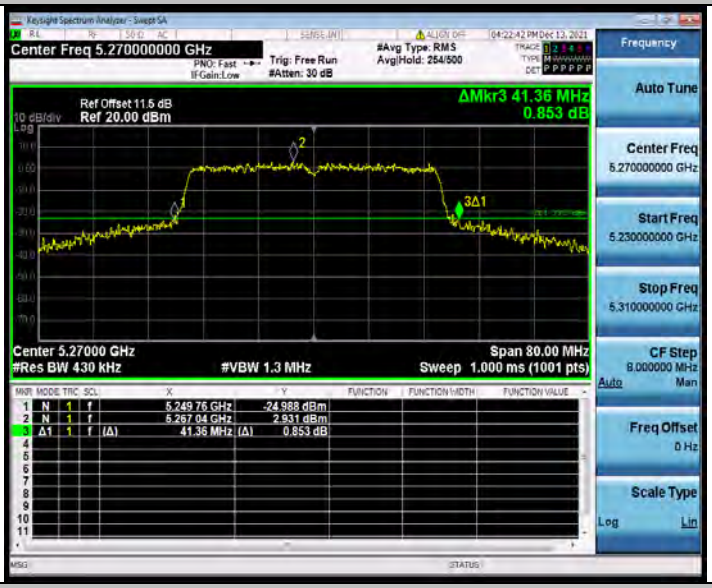
11AC20SISO_Ant1_5785



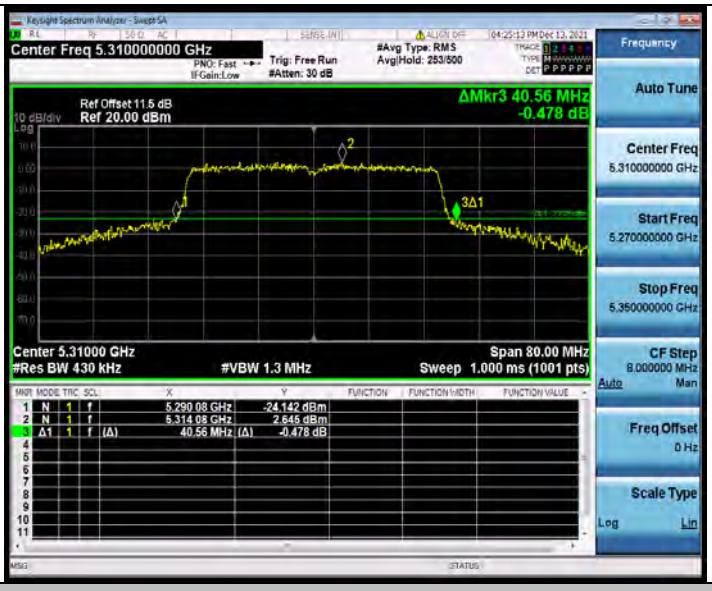
11AC20SISO_Ant1_5825

11AC40SISO_Ant1_5190

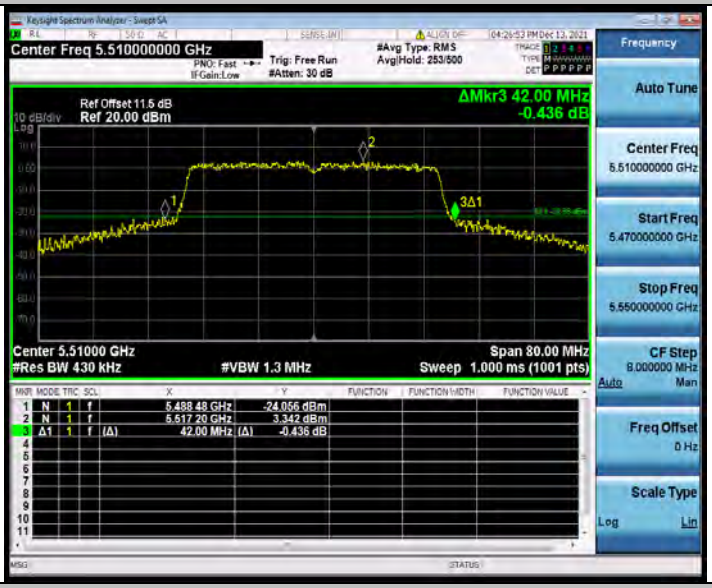
11AC40SISO_Ant1_5230



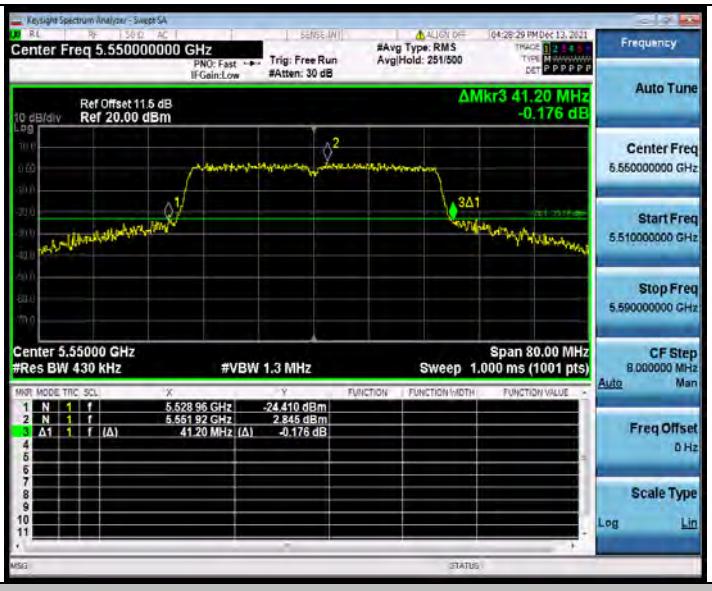
11AC40SISO_Ant1_5270



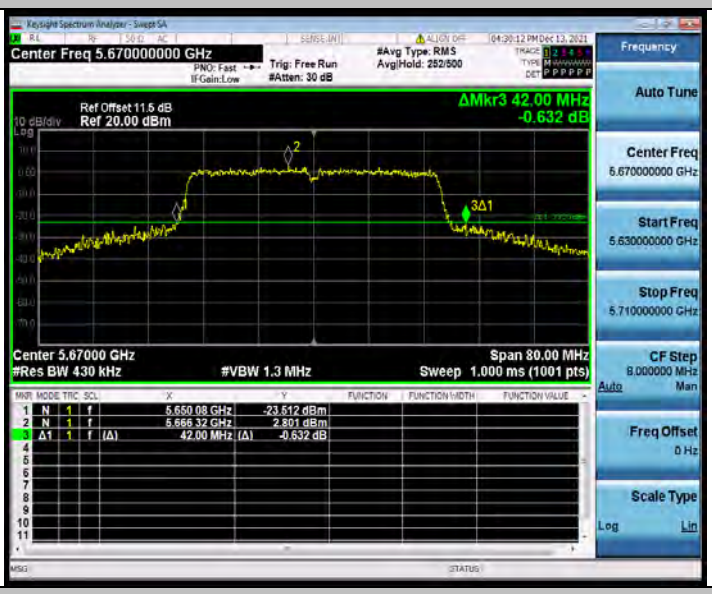
11AC40SISO_Ant1_5310



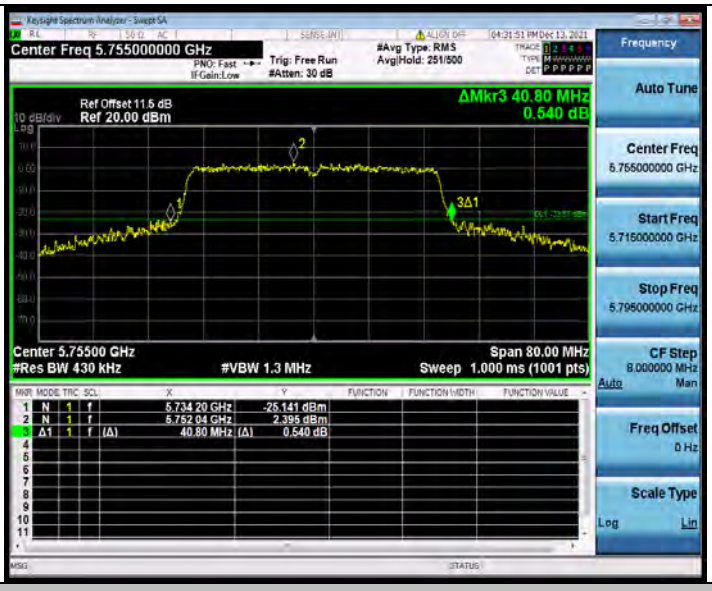
11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5550



11AC40SISO_Ant1_5670



11AC40SISO_Ant1_5755

11AC40SISO_Ant1_5795

11AC80SISO_Ant1_5210

11AC80SISO_Ant1_5290

11AC80SISO_Ant1_5530

11AC80SISO_Ant1_5610

11AC80SISO_Ant1_5775

APPENDIX A2: OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.253	5171.392	5188.645	---	PASS
		5200	17.217	5191.400	5208.617	---	PASS
		5240	17.234	5231.403	5248.637	---	PASS
		5260	17.251	5251.388	5268.639	---	PASS
		5300	17.244	5291.388	5308.632	---	PASS
		5320	17.263	5311.364	5328.627	---	PASS
		5500	17.243	5491.354	5508.597	---	PASS
		5580	17.210	5571.389	5588.599	---	PASS
		5700	17.314	5691.343	5708.657	---	PASS
		5745	17.346	5736.322	5753.668	---	PASS
		5785	17.702	5776.119	5793.821	---	PASS
		5825	17.878	5816.012	5833.890	---	PASS
11N20SISO	Ant1	5180	18.052	5170.989	5189.041	---	PASS
		5200	18.096	5190.979	5209.075	---	PASS
		5240	18.083	5230.979	5249.062	---	PASS
		5260	18.023	5250.995	5269.018	---	PASS
		5300	18.088	5290.934	5309.022	---	PASS
		5320	18.038	5310.947	5328.985	---	PASS
		5500	18.115	5490.893	5509.008	---	PASS
		5580	18.101	5570.928	5589.029	---	PASS
		5700	18.100	5690.919	5709.019	---	PASS
		5745	18.229	5735.848	5754.077	---	PASS
		5785	18.271	5775.828	5794.099	---	PASS
		5825	18.248	5815.843	5834.091	---	PASS
11N40SISO	Ant1	5190	36.598	5171.752	5208.350	---	PASS
		5230	36.534	5211.810	5248.344	---	PASS
		5270	36.561	5251.745	5288.306	---	PASS
		5310	36.551	5291.762	5328.313	---	PASS
		5510	36.544	5491.659	5528.203	---	PASS
		5550	36.555	5531.741	5568.296	---	PASS

		5670	36.462	5651.748	5688.210	---	PASS
		5755	36.772	5736.547	5773.319	---	PASS
		5795	36.838	5776.570	5813.408	---	PASS
11AC20SISO	Ant1	5180	18.088	5170.934	5189.022	---	PASS
		5200	18.104	5190.946	5209.050	---	PASS
		5240	18.073	5230.962	5249.035	---	PASS
		5260	18.117	5250.922	5269.039	---	PASS
		5300	18.062	5290.978	5309.040	---	PASS
		5320	17.972	5310.995	5328.967	---	PASS
		5500	18.057	5490.961	5509.018	---	PASS
		5580	18.051	5570.955	5589.006	---	PASS
		5700	18.017	5690.981	5708.998	---	PASS
		5745	18.170	5735.889	5754.059	---	PASS
		5785	18.222	5775.875	5794.097	---	PASS
		5825	18.269	5815.847	5834.116	---	PASS
11AC40SISO	Ant1	5190	36.355	5171.812	5208.167	---	PASS
		5230	36.330	5211.848	5248.178	---	PASS
		5270	36.317	5251.810	5288.127	---	PASS
		5310	36.374	5291.797	5328.171	---	PASS
		5510	36.385	5491.791	5528.176	---	PASS
		5550	36.426	5531.748	5568.174	---	PASS
		5670	36.342	5651.769	5688.111	---	PASS
		5755	36.389	5736.772	5773.161	---	PASS
		5795	36.330	5776.775	5813.105	---	PASS
11AC80SISO	Ant1	5210	75.753	5172.154	5247.907	---	PASS
		5290	75.684	5252.146	5327.830	---	PASS
		5530	75.750	5492.077	5567.827	---	PASS
		5610	75.718	5572.068	5647.786	---	PASS
		5775	75.779	5737.032	5812.811	---	PASS

TEST GRAPHS

11A_Ant1_5180

11A_Ant1_5200

11A_Ant1_5240

11A_Ant1_5260

11A_Ant1_5300

11A_Ant1_5320

11A_Ant1_5500

11A_Ant1_5580

11A_Ant1_5700

11A_Ant1_5745

11A_Ant1_5785

11A_Ant1_5825

11N20SISO_Ant1_5180

11N20SISO_Ant1_5200

11N20SISO_Ant1_5240

11N20SISO_Ant1_5260

11N20SISO_Ant1_5300

11N20SISO_Ant1_5320

11N20SISO_Ant1_5500

11N20SISO_Ant1_5580

11N20SISO_Ant1_5700

11N20SISO_Ant1_5745

11N20SISO_Ant1_5785

11N20SISO_Ant1_5825

11N40SISO_Ant1_5190

11N40SISO_Ant1_5230

11N40SISO_Ant1_5270

11N40SISO_Ant1_5310

11N40SISO_Ant1_5510

11N40SISO_Ant1_5550

11N40SISO_Ant1_5670

11N40SISO_Ant1_5755

11N40SISO_Ant1_5795

11AC20SISO_Ant1_5180