

MEASUREMENT REPORT

FCC PART 15 Subpart E WLAN 802.11a/n/ac/ax

Report No.: S20241118761701E07

Issue Date: 03-13-2025

Applicant: Wallys Communications Technologies Co.,Ltd
Address: Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou
Industrial Park, Suzhou, P.R
FCC ID: 2AG7VDR5018S
Product: Wireless Router Module
Model No.: DR5018S, DR5018S-DB, DR5018S-5G
FCC Classification: Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Test Procedure(s): ANSI C63.10-2013, KDB 789033 D02v02r01,
KDB 662911 D01v02r01
Item Receipt date: Nov 21, 2024
Test Date: Nov 26 2024 ~ Jan 07, 2025

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The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20241118761701E07	Rev. 01	/	03-13-2025

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§2.1033 General Information

Applicant:	Wallys Communications Technologies Co.,Ltd
Applicant Address:	Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R
Manufacturer:	Wallys Communications Technologies Co.,Ltd
Manufacturer Address:	Room 2723,Le Jia building,Jia Rui Xiang No.8, Suzhou Industrial Park, Suzhou, P.R
Test Site:	Fangguang Inspection & Testing Co. Ltd
LAB ID:	CN5037
Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart E (15.407)
FCC ID:	2AG7VDR5018S
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Unlicensed National Information Infrastructure (UNII)

1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	Wireless Router Module			
Model Name:	DR5018S			
Additional Model:	DR5018S-DB, DR5018S-5G			
Model Description:		P/N	Radio	Frequency
	1	DR5018S-5G	5Ghz	1G Ethernet & POE
	2	DR5018S	2.4Ghz 5Ghz	2.5G+1G Ethernet & POE
	3	DR5018S-DB	2.4Ghz 5Ghz	1G Ethernet & POE
	DR5018S-5G has 5G radio and 1x1G ethernet port and support PD feature DR5018S has 2.4G,5G radio and 1x2.5G+1x1G ethernet ports and all support PD feature DR5018S-DB has 2.4G,5G radio and 1x1G ethernet port and support PD feature			
Trade Mark:	/			
Input Voltage Range:	DC 48V			
Wi-Fi Specification:	802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80/ax-HE20/ax-HE40/ax-HE80			

Note:

1. There are three types of antennas for the Wireless Router Module. The antennas are DR5G15, DR5G17 and DR5G19.
2. This information is provided by the Customer and its authenticity is the responsibility of the Customer.

2.2. Product Specification Subjective to this Report

Frequency Range:	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5775MHz
Type of Modulation:	802.11a/n/ac: OFDM/BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM 802.11ax: OFDMA
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0~MCS7 802.11ac: MCS0~MCS9 802.11ax: MCS0~MCS11
Antenna Type:	Array Antenna

Antenna Gain:	DR5G15 Antenna: Ant1 15.54dBi, Ant2 15.54dBi
	DR5G17 Antenna: Ant1 17.95dBi, Ant2 17.95dBi
	DR5G19 Antenna: Ant1 19.81dBi, Ant2 19.81dBi

2.3. Operation Frequencies and Channel List

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz
159	5795 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	--	--

2.4. Description of Available Antennas

1) For Antenna DR5G15

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
Array Antenna	5	Wireless Router Module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	5150 ~ 5250 5725 ~ 5850	2	15.54	15.54	Nonsupport	18.55

2) For Antenna DR5G17

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
Array Antenna	5	Wireless Router Module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	5150 ~ 5250 5725 ~ 5850	2	17.95	17.95	Nonsupport	20.96

3) For Antenna DR5G19

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
Array Antenna	5	Wireless Router Module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	5150 ~ 5250 5725 ~ 5850	2	19.81	19.81	Nonsupport	22.82

Note:

Unequal Antenna gains, with equal transmit powers. For Antenna gains given by $G_1, G_2, \dots, G_N$ dBi transmit signals are correlated, then

- Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Directional Gain(5G) = $10 \cdot \log[(10^{15.54/20} + 10^{15.54/20})^2 / 2] = 18.55$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{17.95/20} + 10^{17.95/20})^2 / 2] = 20.96$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{19.80/20} + 10^{19.80/20})^2 / 2] = 22.82$ dBi

2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS)&5GHz WLAN (UNII)

Note: 5GHz (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz, and detector = Peak per the guidance of Section B) 2) b) of KDB 789033 D02v02r01. The RBW and VBW were both greater than $50/T$, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Antenna	Frequency (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.09	2.11	99.05
	Ant2	5180	2.09	2.11	99.05
	Ant1	5200	2.09	2.11	99.05
	Ant2	5200	2.09	2.11	99.05
	Ant1	5240	2.09	2.11	99.05
	Ant2	5240	2.09	2.10	99.52
	Ant1	5745	2.10	2.12	99.06
	Ant2	5745	2.10	2.11	99.53
	Ant1	5785	2.10	2.11	99.53
	Ant2	5785	2.09	2.11	99.05
	Ant1	5825	2.10	2.11	99.53
	Ant2	5825	2.09	2.12	98.58
11N20SISO	Ant1	5180	27.00	27.00	100.00
	Ant2	5180	5.42	5.45	99.45
	Ant1	5200	27.00	27.00	100.00
	Ant2	5200	5.42	5.44	99.63

	Ant1	5240	5.44	5.45	99.82
	Ant2	5240	27.00	27.00	100.00
	Ant1	5745	27.00	27.00	100.00
	Ant2	5745	5.42	5.45	99.45
	Ant1	5785	5.43	5.45	99.63
	Ant2	5785	27.00	27.00	100.00
	Ant1	5825	5.42	5.45	99.45
	Ant2	5825	5.42	5.45	99.45
11N40SISO	Ant1	5190	27.00	27.00	100.00
	Ant2	5190	5.42	5.43	99.82
	Ant1	5230	5.42	5.44	99.63
	Ant2	5230	27.00	27.00	100.00
	Ant1	5755	27.00	27.00	100.00
	Ant2	5755	5.43	5.44	99.82
	Ant1	5795	5.43	5.45	99.63
	Ant2	5795	5.43	5.45	99.63
11AC20SISO	Ant1	5180	5.42	5.44	99.63
	Ant2	5180	5.43	5.44	99.82
	Ant1	5200	5.42	5.45	99.45
	Ant2	5200	27.00	27.00	100.00
	Ant1	5240	27.00	27.00	100.00
	Ant2	5240	5.42	5.44	99.63
	Ant1	5745	27.00	27.00	100.00
	Ant2	5745	5.43	5.45	99.63
	Ant1	5785	5.42	5.45	99.45
	Ant2	5785	27.00	27.00	100.00
	Ant1	5825	5.43	5.45	99.63
	Ant2	5825	5.44	5.45	99.82
11AC40SISO	Ant1	5190	27.00	27.00	100.00
	Ant2	5190	27.00	27.00	100.00
	Ant1	5230	27.00	27.00	100.00
	Ant2	5230	27.00	27.00	100.00
	Ant1	5755	27.00	27.00	100.00
	Ant2	5755	5.43	5.44	99.82
	Ant1	5795	27.00	27.00	100.00
	Ant2	5795	5.43	5.45	99.63
11AC80SISO	Ant1	5210	5.43	5.45	99.63

	Ant2	5210	27.00	27.00	100.00
	Ant1	5775	27.00	27.00	100.00
	Ant2	5775	27.00	27.00	100.00
11AX20SISO	Ant1	5180	27.00	27.00	100.00
	Ant2	5180	27.00	27.00	100.00
	Ant1	5200	27.00	27.00	100.00
	Ant2	5200	5.43	5.46	99.45
	Ant1	5240	27.00	27.00	100.00
	Ant2	5240	5.43	5.46	99.45
	Ant1	5745	5.45	5.46	99.82
	Ant2	5745	5.45	5.46	99.82
	Ant1	5785	27.00	27.00	100.00
	Ant2	5785	5.44	5.46	99.63
	Ant1	5825	27.00	27.00	100.00
	Ant2	5825	5.44	5.46	99.63
11AX40SISO	Ant1	5190	5.44	5.46	99.63
	Ant2	5190	5.43	5.46	99.45
	Ant1	5230	5.44	5.46	99.63
	Ant2	5230	27.00	27.00	100.00
	Ant1	5755	5.43	5.46	99.45
	Ant2	5755	27.00	27.00	100.00
	Ant1	5795	27.00	27.00	100.00
	Ant2	5795	5.45	5.47	99.63
11AX80SISO	Ant1	5210	27.00	27.00	100.00
	Ant2	5210	5.44	5.46	99.63
	Ant1	5775	5.44	5.46	99.63
	Ant2	5775	5.43	5.46	99.45
11A-CDD	Ant1	5180	2.09	2.11	99.05
	Ant2	5180	2.09	2.11	99.05
	Ant1	5200	2.09	2.11	99.05
	Ant2	5200	2.10	2.12	99.06
	Ant1	5240	2.10	2.12	99.06
	Ant2	5240	2.09	2.11	99.05
	Ant1	5745	2.10	2.11	99.53
	Ant2	5745	2.10	2.12	99.06
	Ant1	5785	2.10	2.11	99.53
	Ant2	5785	2.10	2.11	99.53

	Ant1	5825	2.09	2.11	99.05
	Ant2	5825	2.10	2.11	99.53
11N20MIMO	Ant1	5180	27.00	27.00	100.00
	Ant2	5180	5.42	5.45	99.45
	Ant1	5200	5.43	5.45	99.63
	Ant2	5200	5.43	5.44	99.82
	Ant1	5240	27.00	27.00	100.00
	Ant2	5240	5.42	5.44	99.63
	Ant1	5745	27.00	27.00	100.00
	Ant2	5745	5.42	5.44	99.63
	Ant1	5785	5.42	5.45	99.45
	Ant2	5785	27.00	27.00	100.00
	Ant1	5825	5.42	5.45	99.45
	Ant2	5825	27.00	27.00	100.00
11N40MIMO	Ant1	5190	27.00	27.00	100.00
	Ant2	5190	5.42	5.44	99.63
	Ant1	5230	5.43	5.44	99.82
	Ant2	5230	5.43	5.44	99.82
	Ant1	5755	5.43	5.44	99.82
	Ant2	5755	27.00	27.00	100.00
	Ant1	5795	27.00	27.00	100.00
	Ant2	5795	27.00	27.00	100.00
11AC20MIMO	Ant1	5180	27.00	27.00	100.00
	Ant2	5180	5.42	5.45	99.45
	Ant1	5200	5.43	5.45	99.63
	Ant2	5200	27.00	27.00	100.00
	Ant1	5240	27.00	27.00	100.00
	Ant2	5240	5.43	5.44	99.82
	Ant1	5745	27.00	27.00	100.00
	Ant2	5745	5.42	5.45	99.45
	Ant1	5785	27.00	27.00	100.00
	Ant2	5785	5.42	5.44	99.63
	Ant1	5825	27.00	27.00	100.00
	Ant2	5825	5.42	5.44	99.63
11AC40MIMO	Ant1	5190	27.00	27.00	100.00
	Ant2	5190	27.00	27.00	100.00
	Ant1	5230	27.00	27.00	100.00

	Ant2	5230	27.00	27.00	100.00
	Ant1	5755	5.43	5.44	99.82
	Ant2	5755	27.00	27.00	100.00
	Ant1	5795	27.00	27.00	100.00
	Ant2	5795	27.00	27.00	100.00
11AC80MIMO	Ant1	5210	5.43	5.44	99.82
	Ant2	5210	27.00	27.00	100.00
	Ant1	5775	27.00	27.00	100.00
	Ant2	5775	5.43	5.45	99.63
11AX20MIMO	Ant1	5180	5.44	5.46	99.63
	Ant2	5180	5.43	5.46	99.45
	Ant1	5200	27.00	27.00	100.00
	Ant2	5200	5.45	5.46	99.82
	Ant1	5240	27.00	27.00	100.00
	Ant2	5240	5.43	5.46	99.45
	Ant1	5745	27.00	27.00	100.00
	Ant2	5745	5.45	5.46	99.82
	Ant1	5785	27.00	27.00	100.00
	Ant2	5785	27.00	27.00	100.00
	Ant1	5825	27.00	27.00	100.00
	Ant2	5825	5.44	5.46	99.63
11AX40MIMO	Ant1	5190	27.00	27.00	100.00
	Ant2	5190	5.43	5.46	99.45
	Ant1	5230	5.44	5.46	99.63
	Ant2	5230	27.00	27.00	100.00
	Ant1	5755	27.00	27.00	100.00
	Ant2	5755	5.45	5.47	99.63
	Ant1	5795	27.00	27.00	100.00
	Ant2	5795	5.43	5.46	99.45
11AX80MIMO	Ant1	5210	27.00	27.00	100.00
	Ant2	5210	5.44	5.46	99.63
	Ant1	5775	27.00	27.00	100.00
	Ant2	5775	27.00	27.00	100.00

Test Graphs see Appendix A.

2.6. Test Software

The test utility software used during testing was “Putty.exe”, Power Parameter Value:

Test Mode	5150-5250MHz			5725-5850MHz		
	Antenna1	Antenna2	CDD/MIMO	Antenna1	Antenna2	CDD/MIMO
802.11a	2	2	-1	16	16	13
802.11n-HT20	2	2	-1	16	16	13
802.11n-HT40	2	2	-1	16	16	13
802.11ac-VHT20	2	2	-1	16	16	13
802.11ac-VHT40	2	2	-1	16	16	13
802.11ac-VHT80	2	2	-1	16	16	13
802.11ax-HE20	2	2	-1	16	16	13
802.11ax-HE40	2	2	-1	16	16	13
802.11ax-HE80	2	2	-1	16	16	13

2.7. Test Mode

The EUT not support partial RU's and channel puncturing mode.

Test Mode
Mode 1: Transmit by 802.11a Antenna1
Mode 2: Transmit by 802.11n-HT20 Antenna1
Mode 3: Transmit by 802.11n-HT40 Antenna1
Mode 4: Transmit by 802.11ac-VHT20 Antenna1
Mode 5: Transmit by 802.11ac-VHT40 Antenna1
Mode 6: Transmit by 802.11ac-VHT80 Antenna1
Mode 7: Transmit by 802.11ax-HE20 Antenna1
Mode 8: Transmit by 802.11ax-HE40 Antenna1
Mode 9: Transmit by 802.11ax-HE80 Antenna1
Mode 10: Transmit by 802.11a Antenna2
Mode 11: Transmit by 802.11n-HT20 Antenna2
Mode 12: Transmit by 802.11n-HT40 Antenna2
Mode 13: Transmit by 802.11ac-VHT20 Antenna2
Mode 14: Transmit by 802.11ac-VHT40 Antenna2

Mode 15: Transmit by 802.11ac-VHT80 Antenna2
Mode 16: Transmit by 802.11ax-HE20 Antenna2
Mode 17: Transmit by 802.11ax-HE40 Antenna2
Mode 18: Transmit by 802.11ax-HE80 Antenna2
Mode 19: Transmit by 802.11a-CDD
Mode 20: Transmit by 802.11n-HT20 MIMO
Mode 21: Transmit by 802.11n-HT40 MIMO
Mode 22: Transmit by 802.11ac-VHT20 MIMO
Mode 23: Transmit by 802.11ac-VHT40 MIMO
Mode 24: Transmit by 802.11ac-VHT80 MIMO
Mode 35: Transmit by 802.11ax-HE20 MIMO
Mode 36: Transmit by 802.11ax-HE40 MIMO
Mode 37: Transmit by 802.11ax-HE80 MIMO

2.8. Test Configuration

The EUT was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.9. EUT Photo

The EUT external photo, internal photo and test setup photo, please refer to the plots in the S20241118761701-A1/A2/A3.

2.10. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.11. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside a 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.11.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- Use a unique coupling to the intentional radiator.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2025/03/07
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2025/04/28
Thermohygrometer	Yuhuaize	HTC-1	FWXDA-2016-385	1 year	2025/09/03

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	1 year	2025/03/16
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	1 year	2025/07/26
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2025/03/01
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	1 year	2025/07/26
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2025/07/26
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2025/07/23
Pre-Amplifier	R&S	EMC184055 SE	FWXGJC-2018-018	1 year	2025/04/13
Thermohygrometer	Yuhuaize	HTC-1	FWXDA-2016-386	1 year	2025/09/03
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	3 year	2026/04/05

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2025/03/02
RF Control Unit	Tonscend	JS0806-2	FWXGJC-2018-013	1 year	2025/05/19
Thermohygrometer	Yuhuaize	HTC-1	FWXDA-2016-385	1 year	2025/09/03

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	tonscend	V3.3.10	/	/
JS32	tonscend	V2.5.2.4	/	/

Auxiliary Equipment

Instrument	Manufacturer	Type No.	Asset No.	Function
Filter	Tonscend	ZBSF6	07247867	/
Filter	Tonscend	ZHPF6	07233297	/
Attenuator	Tonscend	10dB	/	/
RF Cable	Tonscend	T-1	/	/

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.68dB
Radiated Emission Measurement (Below 1GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.01dB
Radiated Emission Measurement (1-18GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 4.97dB
Radiated Emission Measurement (Above 18-40GHz)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 5.32dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-12.75GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.1×10^{-6} MHz

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 7.2
15.407(e)	6dB Bandwidth	$\geq 500\text{kHz}$		Pass	Section 7.3
15.407(a)(1)(iv), (2), (3)	Maximum Conducted Output Power	$\leq 16.2\text{ dBm U-NII-1}$ $\leq 16.2\text{ dBm U-NII-3}$		Pass	Section 7.4
15.407(h)(1)	Transmit Power Control	$\leq 24\text{ dBm}$		Pass	Section 7.5
15.407(a)(1)(iv), (2), (3), (5)	Peak Power Spectral Density	$\leq -2.8\text{ dBm/MHz U-NII-1}$ $\leq 16.2\text{ dBm/500kHz U-NII-3}$		Pass	Section 7.6
15.407(g)	Frequency Stability	N/A		Pass	Section 7.7
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	$\leq -27\text{dBm/MHz EIRP}$ Detail see section 7.9	Radiated	Pass	Section 7.8 & 7.9
15.205, 15.209 15.407(b)(5), (6), (7)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		Pass	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Not Applicable	Section 7.10

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

7.2. 26dB Bandwidth Measurement and 99% Bandwidth

7.2.1. Test Limit

N/A

7.2.2. Test Procedure used

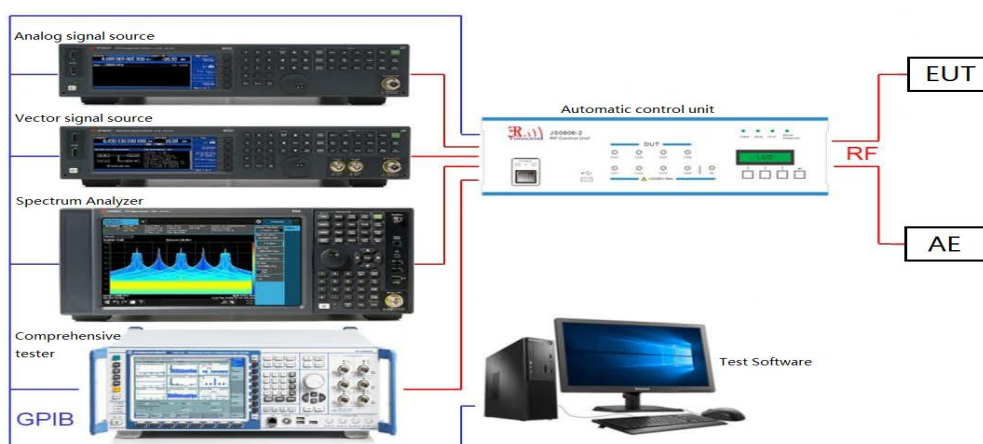
KDB 789033 D02v02r01 – Section C.1

ANSI C63.10-2013 D02v02r01 – Section C

7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5. Test Result

Test Mode	Antenna	Frequency (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	OCB [MHz]
11A	Ant1	5180	18.720	5170.640	5189.360	16.411
	Ant2	5180	18.600	5170.720	5189.320	16.369
	Ant1	5200	18.240	5190.840	5209.080	16.381
	Ant2	5200	19.440	5189.800	5209.240	16.396
	Ant1	5240	18.560	5230.680	5249.240	16.387
	Ant2	5240	18.320	5230.920	5249.240	16.365
	Ant1	5745	18.840	5735.600	5754.440	16.373
	Ant2	5745	19.720	5734.680	5754.400	16.396
	Ant1	5785	18.320	5775.800	5794.120	16.391
	Ant2	5785	18.880	5775.520	5794.400	16.388
	Ant1	5825	19.240	5814.840	5834.080	16.374
	Ant2	5825	18.560	5815.760	5834.320	16.382
11N20SISO	Ant1	5180	19.760	5170.160	5189.920	17.591
	Ant2	5180	19.520	5170.080	5189.600	17.558
	Ant1	5200	19.800	5190.120	5209.920	17.573
	Ant2	5200	19.920	5189.960	5209.880	17.560
	Ant1	5240	20.200	5230.040	5250.240	17.558
	Ant2	5240	20.320	5229.640	5249.960	17.558
	Ant1	5745	19.360	5735.280	5754.640	17.572
	Ant2	5745	19.760	5735.080	5754.840	17.590
	Ant1	5785	19.640	5775.200	5794.840	17.577
	Ant2	5785	20.160	5775.200	5795.360	17.561
	Ant1	5825	19.960	5814.960	5834.920	17.531
	Ant2	5825	19.800	5815.160	5834.960	17.541
11N40SISO	Ant1	5190	39.440	5170.480	5209.920	35.884
	Ant2	5190	39.360	5170.320	5209.680	35.928
	Ant1	5230	38.880	5210.560	5249.440	35.923
	Ant2	5230	38.720	5210.640	5249.360	35.852
	Ant1	5755	38.800	5735.560	5774.360	35.839
	Ant2	5755	38.880	5735.480	5774.360	35.880
	Ant1	5795	39.120	5775.400	5814.520	35.907
	Ant2	5795	39.040	5775.560	5814.600	35.879
11AC20SISO	Ant1	5180	19.480	5170.320	5189.800	17.549

	Ant2	5180	19.520	5170.160	5189.680	17.544
	Ant1	5200	20.200	5189.920	5210.120	17.530
	Ant2	5200	20.400	5189.920	5210.320	17.508
	Ant1	5240	19.680	5230.120	5249.800	17.551
	Ant2	5240	19.600	5230.200	5249.800	17.573
	Ant1	5745	20.120	5735.160	5755.280	17.551
	Ant2	5745	20.320	5734.960	5755.280	17.557
	Ant1	5785	19.680	5775.160	5794.840	17.554
	Ant2	5785	20.640	5774.600	5795.240	17.546
	Ant1	5825	20.240	5814.960	5835.200	17.546
	Ant2	5825	20.640	5814.640	5835.280	17.553
11AC40SISO	Ant1	5190	39.120	5170.560	5209.680	35.861
	Ant2	5190	39.200	5170.160	5209.360	35.950
	Ant1	5230	39.120	5210.480	5249.600	35.902
	Ant2	5230	38.960	5210.560	5249.520	35.905
	Ant1	5755	39.600	5735.480	5775.080	35.887
	Ant2	5755	38.960	5735.320	5774.280	35.870
	Ant1	5795	38.480	5775.800	5814.280	35.960
	Ant2	5795	38.640	5775.560	5814.200	35.914
11AC80SISO	Ant1	5210	79.680	5170.320	5250.000	75.135
	Ant2	5210	80.960	5169.360	5250.320	75.128
	Ant1	5775	80.160	5735.000	5815.160	74.883
	Ant2	5775	80.640	5734.680	5815.320	74.856
11AX20SISO	Ant1	5180	20.880	5169.640	5190.520	19.152
	Ant2	5180	21.880	5168.880	5190.760	19.121
	Ant1	5200	21.440	5189.200	5210.640	19.144
	Ant2	5200	21.720	5189.280	5211.000	19.137
	Ant1	5240	22.080	5228.840	5250.920	19.141
	Ant2	5240	21.960	5229.080	5251.040	19.126
	Ant1	5745	21.880	5733.880	5755.760	19.158
	Ant2	5745	21.360	5734.320	5755.680	19.188
	Ant1	5785	21.400	5774.160	5795.560	19.152
	Ant2	5785	21.760	5774.360	5796.120	19.166
	Ant1	5825	21.360	5814.480	5835.840	19.138
	Ant2	5825	21.720	5813.960	5835.680	19.164
11AX40SISO	Ant1	5190	42.080	5169.120	5211.200	38.040
	Ant2	5190	43.040	5168.320	5211.360	38.049

	Ant1	5230	42.800	5208.560	5251.360	38.118
	Ant2	5230	42.880	5208.160	5251.040	38.041
	Ant1	5755	42.240	5733.560	5775.800	38.098
	Ant2	5755	42.640	5733.160	5775.800	38.162
	Ant1	5795	42.080	5773.960	5816.040	38.142
	Ant2	5795	41.760	5774.280	5816.040	38.189
11AX80SISO	Ant1	5210	85.920	5167.120	5253.040	77.958
	Ant2	5210	85.280	5167.440	5252.720	78.073
	Ant1	5775	84.320	5732.760	5817.080	77.976
	Ant2	5775	83.840	5732.920	5816.760	78.046
11A-CDD	Ant1	5180	18.840	5170.520	5189.360	16.366
	Ant2	5180	18.480	5170.680	5189.160	16.406
	Ant1	5200	19.560	5189.760	5209.320	16.393
	Ant2	5200	19.800	5190.040	5209.840	16.407
	Ant1	5240	18.120	5231.000	5249.120	16.343
	Ant2	5240	18.760	5230.560	5249.320	16.354
	Ant1	5745	18.680	5735.640	5754.320	16.369
	Ant2	5745	18.760	5735.520	5754.280	16.348
	Ant1	5785	19.040	5775.160	5794.200	16.352
	Ant2	5785	19.040	5775.280	5794.320	16.354
	Ant1	5825	18.520	5815.720	5834.240	16.389
	Ant2	5825	18.400	5815.680	5834.080	16.341
11N20MIMO	Ant1	5180	19.840	5170.280	5190.120	17.553
	Ant2	5180	20.720	5169.440	5190.160	17.569
	Ant1	5200	19.440	5190.160	5209.600	17.591
	Ant2	5200	19.960	5189.960	5209.920	17.550
	Ant1	5240	19.720	5230.200	5249.920	17.603
	Ant2	5240	19.680	5230.160	5249.840	17.543
	Ant1	5745	19.600	5735.280	5754.880	17.535
	Ant2	5745	20.720	5734.640	5755.360	17.579
	Ant1	5785	19.800	5774.880	5794.680	17.581
	Ant2	5785	19.520	5775.400	5794.920	17.565
	Ant1	5825	20.080	5815.120	5835.200	17.553
	Ant2	5825	19.440	5815.440	5834.880	17.525
11N40MIMO	Ant1	5190	39.120	5170.400	5209.520	35.947
	Ant2	5190	38.880	5170.480	5209.360	35.841
	Ant1	5230	39.520	5209.920	5249.440	35.914

	Ant2	5230	38.880	5210.400	5249.280	35.962
	Ant1	5755	39.200	5735.400	5774.600	35.800
	Ant2	5755	38.800	5735.480	5774.280	35.857
	Ant1	5795	39.600	5775.080	5814.680	35.918
	Ant2	5795	38.960	5775.640	5814.600	35.867
11AC20MIMO	Ant1	5180	19.800	5170.120	5189.920	17.578
	Ant2	5180	19.440	5170.240	5189.680	17.600
	Ant1	5200	20.000	5190.120	5210.120	17.564
	Ant2	5200	19.680	5190.160	5209.840	17.571
	Ant1	5240	19.560	5230.360	5249.920	17.602
	Ant2	5240	19.720	5230.120	5249.840	17.554
	Ant1	5745	20.120	5734.960	5755.080	17.540
	Ant2	5745	19.640	5735.000	5754.640	17.510
	Ant1	5785	20.000	5774.960	5794.960	17.572
	Ant2	5785	20.200	5774.880	5795.080	17.519
	Ant1	5825	20.440	5814.640	5835.080	17.568
	Ant2	5825	20.000	5814.840	5834.840	17.488
11AC40MIMO	Ant1	5190	39.920	5170.400	5210.320	35.943
	Ant2	5190	39.760	5170.160	5209.920	35.908
	Ant1	5230	39.120	5210.480	5249.600	35.925
	Ant2	5230	38.400	5210.880	5249.280	35.852
	Ant1	5755	39.040	5735.560	5774.600	35.840
	Ant2	5755	38.480	5735.800	5774.280	35.784
	Ant1	5795	39.520	5775.080	5814.600	35.948
	Ant2	5795	38.560	5775.880	5814.440	35.780
11AC80MIMO	Ant1	5210	80.800	5169.520	5250.320	75.165
	Ant2	5210	80.480	5169.360	5249.840	75.242
	Ant1	5775	80.160	5734.840	5815.000	74.998
	Ant2	5775	80.000	5735.320	5815.320	74.865
11AX20MIMO	Ant1	5180	20.840	5169.600	5190.440	19.178
	Ant2	5180	20.960	5169.480	5190.440	19.128
	Ant1	5200	21.640	5189.040	5210.680	19.146
	Ant2	5200	21.480	5189.040	5210.520	19.098
	Ant1	5240	21.560	5229.000	5250.560	19.078
	Ant2	5240	21.960	5229.080	5251.040	19.089
	Ant1	5745	20.960	5734.480	5755.440	19.169
	Ant2	5745	21.560	5734.120	5755.680	19.165

	Ant1	5785	21.640	5774.040	5795.680	19.177
	Ant2	5785	21.480	5774.480	5795.960	19.184
	Ant1	5825	21.320	5814.400	5835.720	19.150
	Ant2	5825	22.040	5813.760	5835.800	19.154
11AX40MIMO	Ant1	5190	42.400	5168.720	5211.120	38.111
	Ant2	5190	43.280	5168.000	5211.280	38.075
	Ant1	5230	42.880	5208.640	5251.520	38.041
	Ant2	5230	43.200	5207.840	5251.040	38.165
	Ant1	5755	42.080	5733.880	5775.960	38.134
	Ant2	5755	42.480	5733.560	5776.040	38.155
	Ant1	5795	42.800	5773.480	5816.280	38.242
	Ant2	5795	42.960	5773.560	5816.520	38.200
11AX80MIMO	Ant1	5210	83.840	5167.760	5251.600	78.043
	Ant2	5210	86.560	5166.000	5252.560	77.959
	Ant1	5775	86.080	5731.800	5817.880	77.913
	Ant2	5775	86.080	5732.280	5818.360	78.067

Test Graphs see Appendix B.

7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

7.3.2. Test Procedure used

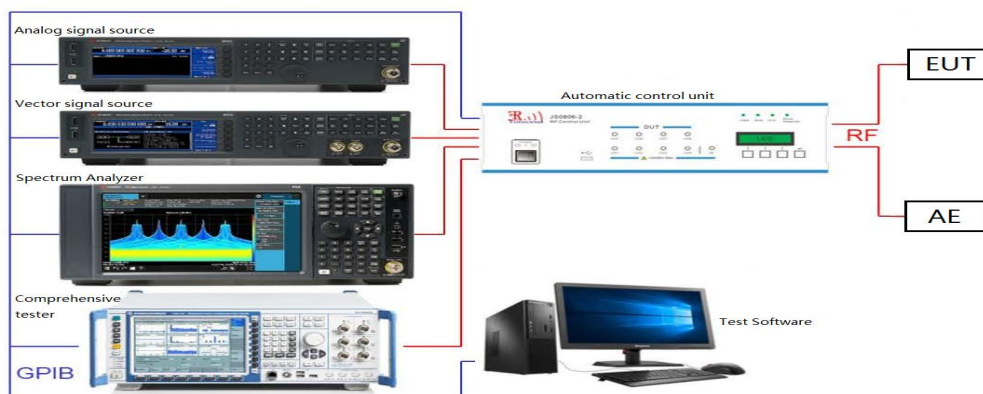
KDB 789033 D02v02r01 – Section C.2

ANSI C63.10-2013 – Section C

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. 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.

7.3.4. Test Setup



7.3.5. Test Result

Test Mode	Antenna	Frequency (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.080	5736.880	5752.960	0.5	PASS
	Ant2	5745	15.920	5736.880	5752.800	0.5	PASS
	Ant1	5785	15.840	5776.840	5792.680	0.5	PASS
	Ant2	5785	15.600	5777.200	5792.800	0.5	PASS
	Ant1	5825	15.800	5816.880	5832.680	0.5	PASS
	Ant2	5825	13.680	5817.560	5831.240	0.5	PASS
11N20SISO	Ant1	5745	15.560	5736.600	5752.160	0.5	PASS
	Ant2	5745	15.640	5737.520	5753.160	0.5	PASS
	Ant1	5785	11.280	5779.360	5790.640	0.5	PASS
	Ant2	5785	17.560	5776.240	5793.800	0.5	PASS
	Ant1	5825	17.040	5816.520	5833.560	0.5	PASS
	Ant2	5825	17.280	5816.480	5833.760	0.5	PASS
11N40SISO	Ant1	5755	34.960	5737.240	5772.200	0.5	PASS
	Ant2	5755	28.960	5741.000	5769.960	0.5	PASS
	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
	Ant2	5795	35.680	5777.480	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	15.640	5736.880	5752.520	0.5	PASS
	Ant2	5745	12.760	5737.760	5750.520	0.5	PASS
	Ant1	5785	16.640	5776.520	5793.160	0.5	PASS
	Ant2	5785	17.520	5776.240	5793.760	0.5	PASS
	Ant1	5825	17.200	5816.600	5833.800	0.5	PASS
	Ant2	5825	16.920	5816.840	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	32.800	5737.880	5770.680	0.5	PASS
	Ant2	5755	36.080	5736.840	5772.920	0.5	PASS
	Ant1	5795	35.680	5777.480	5813.160	0.5	PASS
	Ant2	5795	35.760	5777.080	5812.840	0.5	PASS
11AC80SISO	Ant1	5775	49.280	5756.920	5806.200	0.5	PASS
	Ant2	5775	69.920	5741.240	5811.160	0.5	PASS
11AX20SISO	Ant1	5745	19.080	5735.440	5754.520	0.5	PASS
	Ant2	5745	19.000	5735.520	5754.520	0.5	PASS
	Ant1	5785	19.160	5775.400	5794.560	0.5	PASS
	Ant2	5785	19.040	5775.480	5794.520	0.5	PASS
	Ant1	5825	19.080	5815.480	5834.560	0.5	PASS

	Ant2	5825	19.040	5815.480	5834.520	0.5	PASS
11AX40SISO	Ant1	5755	38.080	5735.960	5774.040	0.5	PASS
	Ant2	5755	38.160	5735.960	5774.120	0.5	PASS
	Ant1	5795	38.160	5775.960	5814.120	0.5	PASS
	Ant2	5795	38.080	5775.960	5814.040	0.5	PASS
	Ant1	5775	77.920	5735.960	5813.880	0.5	PASS
11AX80SISO	Ant2	5775	78.080	5735.960	5814.040	0.5	PASS
	Ant1	5745	15.240	5737.520	5752.760	0.5	PASS
11A-CDD	Ant2	5745	14.440	5737.480	5751.920	0.5	PASS
	Ant1	5785	12.840	5778.440	5791.280	0.5	PASS
	Ant2	5785	13.760	5778.120	5791.880	0.5	PASS
	Ant1	5825	16.000	5816.880	5832.880	0.5	PASS
	Ant2	5825	15.400	5816.880	5832.280	0.5	PASS
	Ant1	5745	13.040	5739.120	5752.160	0.5	PASS
11N20MIMO	Ant2	5745	17.600	5736.200	5753.800	0.5	PASS
	Ant1	5785	16.880	5776.600	5793.480	0.5	PASS
	Ant2	5785	16.600	5776.560	5793.160	0.5	PASS
	Ant1	5825	17.200	5816.560	5833.760	0.5	PASS
	Ant2	5825	16.200	5816.280	5832.480	0.5	PASS
	Ant1	5755	36.080	5737.080	5773.160	0.5	PASS
11N40MIMO	Ant2	5755	35.680	5736.840	5772.520	0.5	PASS
	Ant1	5795	35.440	5777.080	5812.520	0.5	PASS
	Ant2	5795	35.680	5777.080	5812.760	0.5	PASS
	Ant1	5745	17.040	5736.360	5753.400	0.5	PASS
11AC20MIMO	Ant2	5745	17.320	5736.240	5753.560	0.5	PASS
	Ant1	5785	16.960	5776.240	5793.200	0.5	PASS
	Ant2	5785	17.560	5776.240	5793.800	0.5	PASS
	Ant1	5825	17.560	5816.240	5833.800	0.5	PASS
	Ant2	5825	17.520	5816.240	5833.760	0.5	PASS
	Ant1	5755	35.600	5736.920	5772.520	0.5	PASS
11AC40MIMO	Ant2	5755	28.400	5742.840	5771.240	0.5	PASS
	Ant1	5795	36.000	5777.160	5813.160	0.5	PASS
	Ant2	5795	35.040	5777.480	5812.520	0.5	PASS
	Ant1	5775	58.720	5742.520	5801.240	0.5	PASS
11AC80MIMO	Ant2	5775	64.640	5741.880	5806.520	0.5	PASS
	Ant1	5745	19.040	5735.480	5754.520	0.5	PASS
11AX20MIMO	Ant2	5745	19.080	5735.480	5754.560	0.5	PASS

	Ant1	5785	19.000	5775.520	5794.520	0.5	PASS
	Ant2	5785	19.160	5775.400	5794.560	0.5	PASS
	Ant1	5825	19.080	5815.480	5834.560	0.5	PASS
	Ant2	5825	19.080	5815.440	5834.520	0.5	PASS
11AX40MIMO	Ant1	5755	38.160	5735.880	5774.040	0.5	PASS
	Ant2	5755	38.080	5735.960	5774.040	0.5	PASS
	Ant1	5795	38.080	5775.960	5814.040	0.5	PASS
	Ant2	5795	37.920	5775.960	5813.880	0.5	PASS
11AX80MIMO	Ant1	5775	78.080	5735.960	5814.040	0.5	PASS
	Ant2	5775	78.080	5735.960	5814.040	0.5	PASS

Test Graphs see Appendix C.

7.4. Output Power Measurement

7.4.1. Test Limit

For FCC Power Measurement Limit

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

For IC Power Measurement Limit

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipointFootnote3 systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

7.4.2. Test Procedure Used

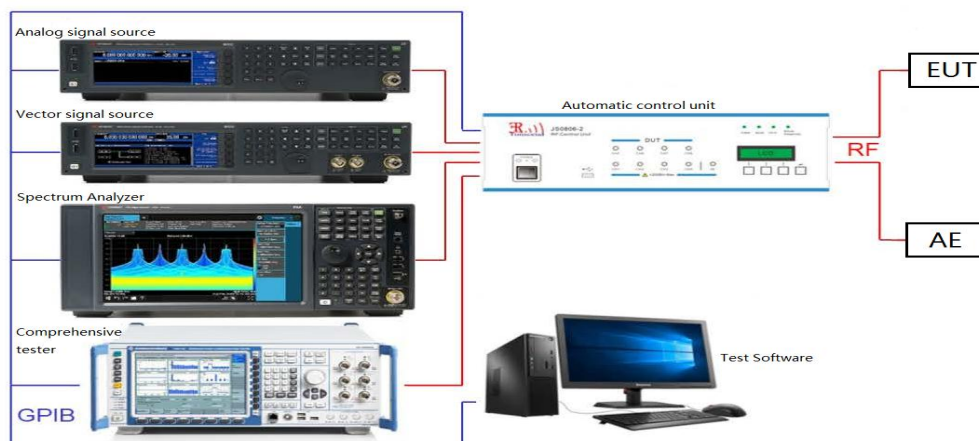
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.4.4. Test Setup



7.4.5. Test Rate Assessment

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output for final test of each channel.

Modulation Mode	Worst Data Rate
802.11a	6Mbps
802.11n(20MHz)	MCS0
802.11n(40MHz)	MCS0
802.11ac(20MHz)	MCS0
802.11ac(40MHz)	MCS0
802.11ac(80MHz)	MCS0
802.11ac(80MHz)	MCS0
802.11ax(20MHz)	MCS0
802.11ax(40MHz)	MCS0
802.11ax(80MHz)	MCS0

7.4.6. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	1.62	≤16.19	PASS
	Ant2	5180	1.65	≤16.19	PASS
	Ant1	5200	1.78	≤16.19	PASS
	Ant2	5200	1.94	≤16.19	PASS
	Ant1	5240	2.09	≤16.19	PASS
	Ant2	5240	2.04	≤16.19	PASS
	Ant1	5745	14.90	≤16.19	PASS
	Ant2	5745	14.96	≤16.19	PASS
	Ant1	5785	14.47	≤16.19	PASS
	Ant2	5785	14.61	≤16.19	PASS
	Ant1	5825	13.97	≤16.19	PASS
	Ant2	5825	14.49	≤16.19	PASS
11N20SISO	Ant1	5180	1.44	≤16.19	PASS
	Ant2	5180	1.68	≤16.19	PASS
	Ant1	5200	1.55	≤16.19	PASS
	Ant2	5200	1.78	≤16.19	PASS
	Ant1	5240	1.90	≤16.19	PASS
	Ant2	5240	1.95	≤16.19	PASS
	Ant1	5745	14.52	≤16.19	PASS
	Ant2	5745	14.64	≤16.19	PASS
	Ant1	5785	14.11	≤16.19	PASS
	Ant2	5785	14.25	≤16.19	PASS
	Ant1	5825	13.75	≤16.19	PASS
	Ant2	5825	14.12	≤16.19	PASS
11N40SISO	Ant1	5190	1.66	≤16.19	PASS
	Ant2	5190	1.58	≤16.19	PASS
	Ant1	5230	1.99	≤16.19	PASS
	Ant2	5230	1.71	≤16.19	PASS
	Ant1	5755	16.18	≤16.19	PASS
	Ant2	5755	15.82	≤16.19	PASS
	Ant1	5795	15.66	≤16.19	PASS
	Ant2	5795	15.64	≤16.19	PASS
11AC20SISO	Ant1	5180	2.10	≤16.19	PASS
	Ant2	5180	1.67	≤16.19	PASS

	Ant1	5200	2.05	≤16.19	PASS
	Ant2	5200	1.76	≤16.19	PASS
	Ant1	5240	2.18	≤16.19	PASS
	Ant2	5240	1.87	≤16.19	PASS
	Ant1	5745	14.85	≤16.19	PASS
	Ant2	5745	14.74	≤16.19	PASS
	Ant1	5785	14.54	≤16.19	PASS
	Ant2	5785	14.43	≤16.19	PASS
	Ant1	5825	13.96	≤16.19	PASS
	Ant2	5825	14.17	≤16.19	PASS
11AC40SISO	Ant1	5190	2.14	≤16.19	PASS
	Ant2	5190	1.67	≤16.19	PASS
	Ant1	5230	2.12	≤16.19	PASS
	Ant2	5230	1.83	≤16.19	PASS
	Ant1	5755	14.81	≤16.19	PASS
	Ant2	5755	15.93	≤16.19	PASS
	Ant1	5795	13.85	≤16.19	PASS
	Ant2	5795	15.77	≤16.19	PASS
11AC80SISO	Ant1	5210	1.92	≤16.19	PASS
	Ant2	5210	1.93	≤16.19	PASS
	Ant1	5775	14.07	≤16.19	PASS
	Ant2	5775	14.91	≤16.19	PASS
11AX20SISO	Ant1	5180	1.72	≤16.19	PASS
	Ant2	5180	1.33	≤16.19	PASS
	Ant1	5200	1.63	≤16.19	PASS
	Ant2	5200	1.49	≤16.19	PASS
	Ant1	5240	1.74	≤16.19	PASS
	Ant2	5240	1.66	≤16.19	PASS
	Ant1	5745	14.94	≤16.19	PASS
	Ant2	5745	15.30	≤16.19	PASS
	Ant1	5785	13.78	≤16.19	PASS
	Ant2	5785	15.09	≤16.19	PASS
	Ant1	5825	13.28	≤16.19	PASS
	Ant2	5825	14.83	≤16.19	PASS
11AX40SISO	Ant1	5190	1.80	≤16.19	PASS
	Ant2	5190	1.74	≤16.19	PASS
	Ant1	5230	1.90	≤16.19	PASS

	Ant2	5230	1.73	≤ 16.19	PASS
	Ant1	5755	14.95	≤ 16.19	PASS
	Ant2	5755	15.51	≤ 16.19	PASS
	Ant1	5795	14.03	≤ 16.19	PASS
	Ant2	5795	15.37	≤ 16.19	PASS
11AX80SISO	Ant1	5210	1.84	≤ 16.19	PASS
	Ant2	5210	1.82	≤ 16.19	PASS
	Ant1	5775	14.29	≤ 16.19	PASS
	Ant2	5775	15.03	≤ 16.19	PASS
11A-CDD	Ant1	5180	-0.64	≤ 16.19	PASS
	Ant2	5180	-1.58	≤ 16.19	PASS
	total	5180	1.93	≤ 13.18	PASS
	Ant1	5200	-0.70	≤ 16.19	PASS
	Ant2	5200	-1.28	≤ 16.19	PASS
	total	5200	2.03	≤ 13.18	PASS
	Ant1	5240	-0.35	≤ 16.19	PASS
	Ant2	5240	-0.88	≤ 16.19	PASS
	total	5240	2.40	≤ 13.18	PASS
	Ant1	5745	9.01	≤ 16.19	PASS
	Ant2	5745	10.08	≤ 16.19	PASS
	total	5745	12.59	≤ 13.18	PASS
	Ant1	5785	8.68	≤ 16.19	PASS
	Ant2	5785	9.46	≤ 16.19	PASS
	total	5785	12.10	≤ 13.18	PASS
	Ant1	5825	7.67	≤ 16.19	PASS
	Ant2	5825	9.16	≤ 16.19	PASS
	total	5825	11.49	≤ 13.18	PASS
11N20MIMO	Ant1	5180	-1.12	≤ 16.19	PASS
	Ant2	5180	-1.43	≤ 16.19	PASS
	total	5180	1.74	≤ 13.18	PASS
	Ant1	5200	-0.84	≤ 16.19	PASS
	Ant2	5200	-1.45	≤ 16.19	PASS
	total	5200	1.88	≤ 13.18	PASS
	Ant1	5240	-0.58	≤ 16.19	PASS
	Ant2	5240	-1.02	≤ 16.19	PASS
	total	5240	2.22	≤ 13.18	PASS
	Ant1	5745	8.72	≤ 16.19	PASS

	Ant2	5745	9.78	≤ 16.19	PASS
	total	5745	12.29	≤ 13.18	PASS
	Ant1	5785	8.26	≤ 16.19	PASS
	Ant2	5785	9.05	≤ 16.19	PASS
	total	5785	11.68	≤ 13.18	PASS
	Ant1	5825	7.32	≤ 16.19	PASS
	Ant2	5825	8.80	≤ 16.19	PASS
	total	5825	11.13	≤ 13.18	PASS
11N40MIMO	Ant1	5190	-0.56	≤ 16.19	PASS
	Ant2	5190	-1.37	≤ 16.19	PASS
	total	5190	2.06	≤ 13.18	PASS
	Ant1	5230	-0.77	≤ 16.19	PASS
	Ant2	5230	-0.99	≤ 16.19	PASS
	total	5230	2.13	≤ 13.18	PASS
	Ant1	5755	9.52	≤ 16.19	PASS
	Ant2	5755	9.65	≤ 16.19	PASS
	total	5755	12.60	≤ 13.18	PASS
	Ant1	5795	8.51	≤ 16.19	PASS
	Ant2	5795	9.51	≤ 16.19	PASS
	total	5795	12.05	≤ 13.18	PASS
11AC20MIMO	Ant1	5180	-0.61	≤ 16.19	PASS
	Ant2	5180	-1.39	≤ 16.19	PASS
	total	5180	2.03	≤ 13.18	PASS
	Ant1	5200	-0.58	≤ 16.19	PASS
	Ant2	5200	-1.21	≤ 16.19	PASS
	total	5200	2.13	≤ 13.18	PASS
	Ant1	5240	-0.50	≤ 16.19	PASS
	Ant2	5240	-0.98	≤ 16.19	PASS
	total	5240	2.28	≤ 13.18	PASS
	Ant1	5745	8.77	≤ 16.19	PASS
	Ant2	5745	9.80	≤ 16.19	PASS
	total	5745	12.33	≤ 13.18	PASS
	Ant1	5785	8.35	≤ 16.19	PASS
	Ant2	5785	9.11	≤ 16.19	PASS
	total	5785	11.76	≤ 13.18	PASS
	Ant1	5825	7.44	≤ 16.19	PASS
	Ant2	5825	8.92	≤ 16.19	PASS

	total	5825	11.25	≤ 13.18	PASS
11AC40MIMO	Ant1	5190	-0.40	≤ 16.19	PASS
	Ant2	5190	-1.22	≤ 16.19	PASS
	total	5190	2.22	≤ 13.18	PASS
	Ant1	5230	-0.23	≤ 16.19	PASS
	Ant2	5230	-1.02	≤ 16.19	PASS
	total	5230	2.40	≤ 13.18	PASS
	Ant1	5755	9.59	≤ 16.19	PASS
	Ant2	5755	9.65	≤ 16.19	PASS
	total	5755	12.63	≤ 13.18	PASS
	Ant1	5795	8.58	≤ 16.19	PASS
	Ant2	5795	9.69	≤ 16.19	PASS
	total	5795	12.18	≤ 13.18	PASS
11AC80MIMO	Ant1	5210	-0.23	≤ 16.19	PASS
	Ant2	5210	-0.86	≤ 16.19	PASS
	total	5210	2.48	≤ 13.18	PASS
	Ant1	5775	8.53	≤ 16.19	PASS
	Ant2	5775	9.24	≤ 16.19	PASS
	total	5775	11.91	≤ 13.18	PASS
11AX20MIMO	Ant1	5180	-0.92	≤ 16.19	PASS
	Ant2	5180	-1.67	≤ 16.19	PASS
	total	5180	1.73	≤ 13.18	PASS
	Ant1	5200	-0.91	≤ 16.19	PASS
	Ant2	5200	-1.49	≤ 16.19	PASS
	total	5200	1.82	≤ 13.18	PASS
	Ant1	5240	-0.63	≤ 16.19	PASS
	Ant2	5240	-1.11	≤ 16.19	PASS
	total	5240	2.15	≤ 13.18	PASS
	Ant1	5745	9.52	≤ 16.19	PASS
	Ant2	5745	10.67	≤ 16.19	PASS
	total	5745	13.14	≤ 13.18	PASS
	Ant1	5785	9.24	≤ 16.19	PASS
	Ant2	5785	10.10	≤ 16.19	PASS
	total	5785	12.70	≤ 13.18	PASS
	Ant1	5825	8.31	≤ 16.19	PASS
	Ant2	5825	9.92	≤ 16.19	PASS
	total	5825	12.20	≤ 13.18	PASS

11AX40MIMO	Ant1	5190	-0.63	≤ 16.19	PASS
	Ant2	5190	-1.34	≤ 16.19	PASS
	total	5190	2.04	≤ 13.18	PASS
	Ant1	5230	-0.53	≤ 16.19	PASS
	Ant2	5230	-0.91	≤ 16.19	PASS
	total	5230	2.29	≤ 13.18	PASS
	Ant1	5755	9.54	≤ 16.19	PASS
	Ant2	5755	9.64	≤ 16.19	PASS
	total	5755	12.60	≤ 13.18	PASS
	Ant1	5795	8.54	≤ 16.19	PASS
	Ant2	5795	9.52	≤ 16.19	PASS
	total	5795	12.07	≤ 13.18	PASS
11AX80MIMO	Ant1	5210	-0.47	≤ 16.19	PASS
	Ant2	5210	-1.07	≤ 16.19	PASS
	total	5210	2.25	≤ 13.18	PASS
	Ant1	5775	8.63	≤ 16.19	PASS
	Ant2	5775	9.48	≤ 16.19	PASS
	total	5775	12.09	≤ 13.18	PASS

Test Graphs see Appendix D.

The Duty Cycle Factor is compensated in the Offset of graph.

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

7.5.2. Test Procedure Used

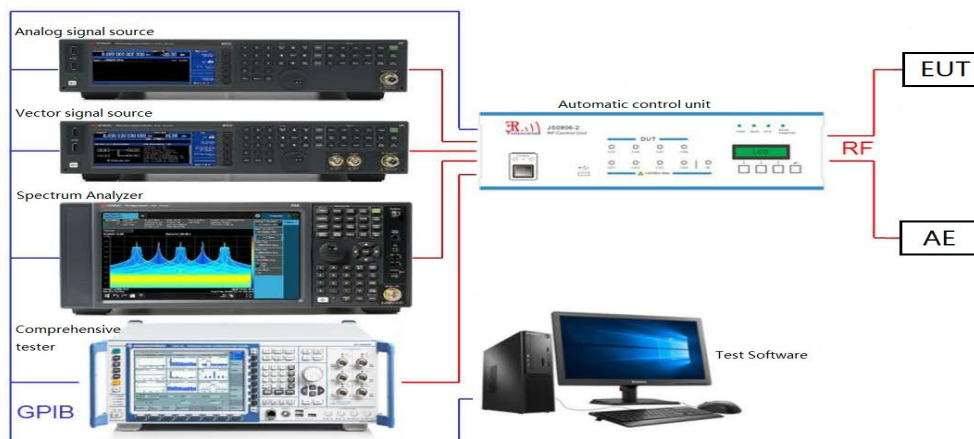
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4. Test Setup



7.5.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.6.2. Test Procedure Used

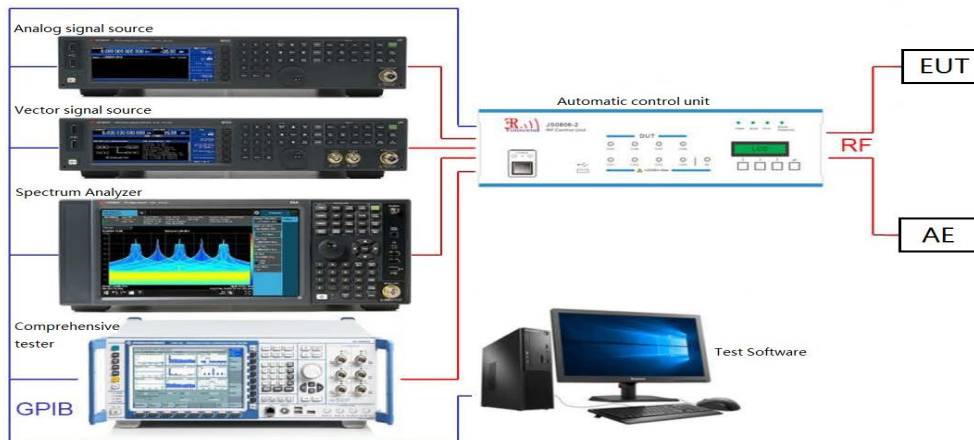
KDB 789033 D02v02r01 - Section F

ANSI C63.10-2013 - Section 12.3.2.2

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, 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). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
11. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$ dB to the measured result

7.6.4. Test Setup



7.6.5. Test Result

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-7.17	≤3.19	PASS
	Ant2	5180	-7.47	≤3.19	PASS
	Ant1	5200	-6.75	≤3.19	PASS
	Ant2	5200	-7.01	≤3.19	PASS
	Ant1	5240	-6.56	≤3.19	PASS
	Ant2	5240	-6.97	≤3.19	PASS
	Ant1	5745	3.12	≤16.19	PASS
	Ant2	5745	3.95	≤16.19	PASS
	Ant1	5785	2.86	≤16.19	PASS
	Ant2	5785	3.07	≤16.19	PASS
	Ant1	5825	2.68	≤16.19	PASS
	Ant2	5825	3.11	≤16.19	PASS
11N20SISO	Ant1	5180	-7.54	≤3.19	PASS
	Ant2	5180	-7.38	≤3.19	PASS
	Ant1	5200	-7.66	≤3.19	PASS
	Ant2	5200	-7.52	≤3.19	PASS
	Ant1	5240	-7.34	≤3.19	PASS
	Ant2	5240	-6.77	≤3.19	PASS
	Ant1	5745	2.87	≤16.19	PASS
	Ant2	5745	2.48	≤16.19	PASS
	Ant1	5785	2.10	≤16.19	PASS
	Ant2	5785	2.61	≤16.19	PASS
	Ant1	5825	2.42	≤16.19	PASS
	Ant2	5825	2.22	≤16.19	PASS
11N40SISO	Ant1	5190	-10.28	≤3.19	PASS
	Ant2	5190	-10.64	≤3.19	PASS
	Ant1	5230	-10.16	≤3.19	PASS
	Ant2	5230	-9.89	≤3.19	PASS
	Ant1	5755	1.29	≤16.19	PASS
	Ant2	5755	1.26	≤16.19	PASS
	Ant1	5795	0.95	≤16.19	PASS
	Ant2	5795	1.57	≤16.19	PASS
11AC20SISO	Ant1	5180	-6.88	≤3.19	PASS
	Ant2	5180	-7.47	≤3.19	PASS

	Ant1	5200	-6.15	≤ 3.19	PASS
	Ant2	5200	-7.35	≤ 3.19	PASS
	Ant1	5240	-7.03	≤ 3.19	PASS
	Ant2	5240	-7.30	≤ 3.19	PASS
	Ant1	5745	3.02	≤ 16.19	PASS
	Ant2	5745	3.08	≤ 16.19	PASS
	Ant1	5785	2.86	≤ 16.19	PASS
	Ant2	5785	2.74	≤ 16.19	PASS
	Ant1	5825	2.20	≤ 16.19	PASS
	Ant2	5825	2.36	≤ 16.19	PASS
11AC40SISO	Ant1	5190	-9.90	≤ 3.19	PASS
	Ant2	5190	-10.21	≤ 3.19	PASS
	Ant1	5230	-10.13	≤ 3.19	PASS
	Ant2	5230	-10.27	≤ 3.19	PASS
	Ant1	5755	-0.31	≤ 16.19	PASS
	Ant2	5755	0.79	≤ 16.19	PASS
	Ant1	5795	-1.21	≤ 16.19	PASS
	Ant2	5795	1.90	≤ 16.19	PASS
11AC80SISO	Ant1	5210	-11.88	≤ 3.19	PASS
	Ant2	5210	-12.58	≤ 3.19	PASS
	Ant1	5775	-3.53	≤ 16.19	PASS
	Ant2	5775	-3.10	≤ 16.19	PASS
11AX20SISO	Ant1	5180	-8.99	≤ 3.19	PASS
	Ant2	5180	-9.05	≤ 3.19	PASS
	Ant1	5200	-8.54	≤ 3.19	PASS
	Ant2	5200	-8.79	≤ 3.19	PASS
	Ant1	5240	-8.70	≤ 3.19	PASS
	Ant2	5240	-8.86	≤ 3.19	PASS
	Ant1	5745	1.13	≤ 16.19	PASS
	Ant2	5745	2.90	≤ 16.19	PASS
	Ant1	5785	0.75	≤ 16.19	PASS
	Ant2	5785	1.95	≤ 16.19	PASS
	Ant1	5825	0.55	≤ 16.19	PASS
	Ant2	5825	2.60	≤ 16.19	PASS
11AX40SISO	Ant1	5190	-11.76	≤ 3.19	PASS
	Ant2	5190	-11.81	≤ 3.19	PASS
	Ant1	5230	-11.53	≤ 3.19	PASS

	Ant2	5230	-12.05	≤ 3.19	PASS
	Ant1	5755	-1.23	≤ 16.19	PASS
	Ant2	5755	-0.36	≤ 16.19	PASS
	Ant1	5795	-1.95	≤ 16.19	PASS
	Ant2	5795	-0.21	≤ 16.19	PASS
11AX80SISO	Ant1	5210	-14.37	≤ 3.19	PASS
	Ant2	5210	-14.80	≤ 3.19	PASS
	Ant1	5775	-4.40	≤ 16.19	PASS
	Ant2	5775	-4.38	≤ 16.19	PASS
11A-CDD	Ant1	5180	-9.46	≤ 3.19	PASS
	Ant2	5180	-9.87	≤ 3.19	PASS
	total	5180	-6.65	≤ 0.18	PASS
	Ant1	5200	-9.62	≤ 3.19	PASS
	Ant2	5200	-10.16	≤ 3.19	PASS
	total	5200	-6.87	≤ 0.18	PASS
	Ant1	5240	-9.30	≤ 3.19	PASS
	Ant2	5240	-9.41	≤ 3.19	PASS
	total	5240	-6.34	≤ 0.18	PASS
	Ant1	5745	-2.61	≤ 16.19	PASS
	Ant2	5745	-1.29	≤ 16.19	PASS
	total	5745	1.11	≤ 13.18	PASS
	Ant1	5785	-2.29	≤ 16.19	PASS
	Ant2	5785	-1.72	≤ 16.19	PASS
	total	5785	1.01	≤ 13.18	PASS
	Ant1	5825	-3.70	≤ 16.19	PASS
	Ant2	5825	-1.49	≤ 16.19	PASS
	total	5825	0.55	≤ 13.18	PASS
11N20MIMO	Ant1	5180	-10.09	≤ 3.19	PASS
	Ant2	5180	-10.68	≤ 3.19	PASS
	total	5180	-7.36	≤ 0.18	PASS
	Ant1	5200	-9.69	≤ 3.19	PASS
	Ant2	5200	-10.49	≤ 3.19	PASS
	total	5200	-7.06	≤ 0.18	PASS
	Ant1	5240	-9.56	≤ 3.19	PASS
	Ant2	5240	-9.95	≤ 3.19	PASS
	total	5240	-6.74	≤ 0.18	PASS
	Ant1	5745	-3.31	≤ 16.19	PASS

	Ant2	5745	-1.97	≤ 16.19	PASS
	total	5745	0.42	≤ 13.18	PASS
	Ant1	5785	-3.48	≤ 16.19	PASS
	Ant2	5785	-2.75	≤ 16.19	PASS
	total	5785	-0.09	≤ 13.18	PASS
	Ant1	5825	-4.43	≤ 16.19	PASS
	Ant2	5825	-2.60	≤ 16.19	PASS
	total	5825	-0.41	≤ 13.18	PASS
11N40MIMO	Ant1	5190	-12.46	≤ 3.19	PASS
	Ant2	5190	-13.63	≤ 3.19	PASS
	total	5190	-10.00	≤ 0.18	PASS
	Ant1	5230	-12.99	≤ 3.19	PASS
	Ant2	5230	-12.31	≤ 3.19	PASS
	total	5230	-9.63	≤ 0.18	PASS
	Ant1	5755	-4.72	≤ 16.19	PASS
	Ant2	5755	-4.38	≤ 16.19	PASS
	total	5755	-1.54	≤ 13.18	PASS
	Ant1	5795	-6.13	≤ 16.19	PASS
	Ant2	5795	-4.87	≤ 16.19	PASS
	total	5795	-2.44	≤ 13.18	PASS
11AC20MIMO	Ant1	5180	-9.54	≤ 3.19	PASS
	Ant2	5180	-10.34	≤ 3.19	PASS
	total	5180	-6.91	≤ 0.18	PASS
	Ant1	5200	-9.50	≤ 3.19	PASS
	Ant2	5200	-10.23	≤ 3.19	PASS
	total	5200	-6.84	≤ 0.18	PASS
	Ant1	5240	-9.52	≤ 3.19	PASS
	Ant2	5240	-10.31	≤ 3.19	PASS
	total	5240	-6.89	≤ 0.18	PASS
	Ant1	5745	-3.12	≤ 16.19	PASS
	Ant2	5745	-2.39	≤ 16.19	PASS
	total	5745	0.27	≤ 13.18	PASS
	Ant1	5785	-3.00	≤ 16.19	PASS
	Ant2	5785	-2.60	≤ 16.19	PASS
	total	5785	0.21	≤ 13.18	PASS
	Ant1	5825	-4.29	≤ 16.19	PASS
	Ant2	5825	-2.52	≤ 16.19	PASS

	total	5825	-0.31	≤ 13.18	PASS
11AC40MIMO	Ant1	5190	-12.41	≤ 3.19	PASS
	Ant2	5190	-13.34	≤ 3.19	PASS
	total	5190	-9.84	≤ 0.18	PASS
	Ant1	5230	-12.34	≤ 3.19	PASS
	Ant2	5230	-13.08	≤ 3.19	PASS
	total	5230	-9.68	≤ 0.18	PASS
	Ant1	5755	-5.41	≤ 16.19	PASS
	Ant2	5755	-5.16	≤ 16.19	PASS
	total	5755	-2.27	≤ 13.18	PASS
	Ant1	5795	-5.59	≤ 16.19	PASS
	Ant2	5795	-4.36	≤ 16.19	PASS
	total	5795	-1.92	≤ 13.18	PASS
11AC80MIMO	Ant1	5210	-15.16	≤ 3.19	PASS
	Ant2	5210	-14.86	≤ 3.19	PASS
	total	5210	-12.00	≤ 0.18	PASS
	Ant1	5775	-9.52	≤ 16.19	PASS
	Ant2	5775	-8.62	≤ 16.19	PASS
	total	5775	-6.04	≤ 13.18	PASS
11AX20MIMO	Ant1	5180	-11.38	≤ 3.19	PASS
	Ant2	5180	-11.68	≤ 3.19	PASS
	total	5180	-8.52	≤ 0.18	PASS
	Ant1	5200	-11.42	≤ 3.19	PASS
	Ant2	5200	-11.60	≤ 3.19	PASS
	total	5200	-8.50	≤ 0.18	PASS
	Ant1	5240	-11.28	≤ 3.19	PASS
	Ant2	5240	-11.25	≤ 3.19	PASS
	total	5240	-8.25	≤ 0.18	PASS
	Ant1	5745	-3.94	≤ 16.19	PASS
	Ant2	5745	-2.89	≤ 16.19	PASS
	total	5745	-0.37	≤ 13.18	PASS
	Ant1	5785	-3.14	≤ 16.19	PASS
	Ant2	5785	-3.26	≤ 16.19	PASS
	total	5785	-0.19	≤ 13.18	PASS
	Ant1	5825	-4.87	≤ 16.19	PASS
	Ant2	5825	-2.91	≤ 16.19	PASS
	total	5825	-0.77	≤ 13.18	PASS

11AX40MIMO	Ant1	5190	-14.23	≤ 3.19	PASS
	Ant2	5190	-14.35	≤ 3.19	PASS
	total	5190	-11.28	≤ 0.18	PASS
	Ant1	5230	-13.65	≤ 3.19	PASS
	Ant2	5230	-14.27	≤ 3.19	PASS
	total	5230	-10.94	≤ 0.18	PASS
	Ant1	5755	-6.64	≤ 16.19	PASS
	Ant2	5755	-6.53	≤ 16.19	PASS
	total	5755	-3.57	≤ 13.18	PASS
	Ant1	5795	-7.18	≤ 16.19	PASS
	Ant2	5795	-6.83	≤ 16.19	PASS
	total	5795	-3.99	≤ 13.18	PASS
11AX80MIMO	Ant1	5210	-17.09	≤ 3.19	PASS
	Ant2	5210	-16.36	≤ 3.19	PASS
	total	5210	-13.69	≤ 0.18	PASS
	Ant1	5775	-10.08	≤ 16.19	PASS
	Ant2	5775	-9.29	≤ 16.19	PASS
	total	5775	-6.66	≤ 13.18	PASS

Test Graphs see Appendix E.

The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz, The Factor= $10 \cdot \log(500/300)=2.22$ is compensated in the Offset of graph.

The Duty Cycle Factor is compensated in the Offset of graph.

7.7. Frequency Stability Measurement

7.7.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.7.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

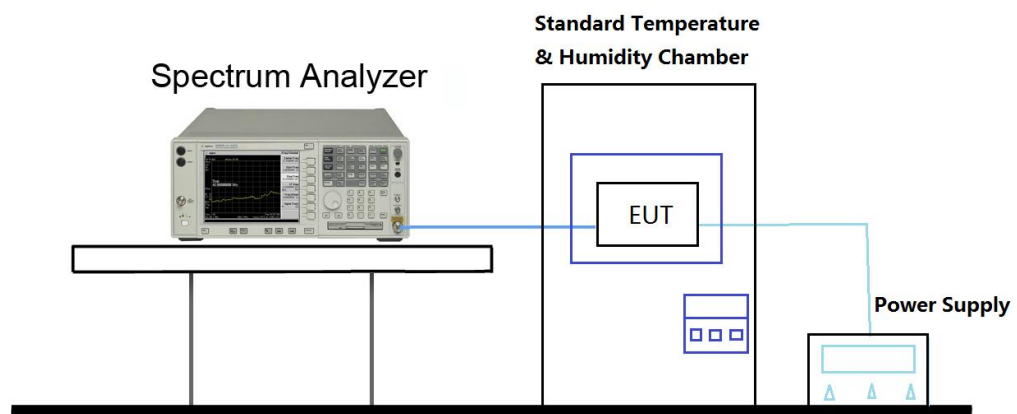
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.7.3. Test Setup



7.7.4. Test Result

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant2	5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20SISO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
	Ant2	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
	Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-160000.00	-27.657736	20	FAIL
	Ant2	5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
	Ant1	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
	Ant2	5825	NV	NT	60000.00	10.300429	20	PASS

			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
11N40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant1	5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
11AC20SISO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
	Ant2	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS

	Ant1	5240	HV	NT	0.00	0.000000	20	PASS
			NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	40000.00	6.962576	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
	Ant1	5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
	Ant2	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11AC40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
	Ant1	5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant2	5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	15.296367	20	PASS

	Ant1	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5755	NV	NT	40000.00	6.950478	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.950478	20	PASS
	Ant1	5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
	Ant2	5795	NV	NT	40000.00	6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5775	NV	NT	80000.00	13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-13.852814	20	PASS
11AX20SISO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5240	NV	NT	0.00	0.000000	20	PASS

			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS

	Ant2	5755	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX80SISO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11A-CDD	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS

	Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
	Ant2	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
	Ant1	5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
	Ant2	5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20MIMO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant2	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
	Ant2	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5240	NV	NT	-40000.00	-7.633588	20	PASS
			LV	NT	-140000.00	-26.717557	20	FAIL
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	20000.00	3.816794	20	PASS

			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40MIMO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant2	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	13.900956	20	PASS
	Ant2	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.950478	20	PASS

	Ant1	5795	HV	NT	-40000.00	-6.950478	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
	Ant2	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	80000.00	13.805004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC20MIM O	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant1	5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.914434	20	PASS

	Ant1	5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
11AC40MIM O	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
	Ant2	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
11AC80MIM O	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5210	NV	NT	-80000.00	-15.355086	20	PASS
			LV	NT	80000.00	15.355086	20	PASS
			HV	NT	80000.00	15.355086	20	PASS
	Ant1	5775	NV	NT	0.00	0.000000	20	PASS

			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	13.852814	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
11AX20MIM O	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
	Ant2	5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant2	5745	NV	NT	20000.00	3.481288	20	PASS
			LV	NT	20000.00	3.481288	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5785	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5785	NV	NT	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS

	Ant2	5825	HV	NT	20000.00	3.433476	20	PASS
			NV	NT	20000.00	3.433476	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.433476	20	PASS
11AX40MIM O	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5230	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	6.902502	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX80MIM O	Ant1	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5210	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5775	NV	NT	80000.00	13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

	Ant2	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} * 10⁶.

Temperature								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	-20000.00	-3.846154	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	-20000.00	-3.846154	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS

			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant2	5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS

			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
	Ant1	5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS

			NV	50	0.00	0.000000	20	PASS
11N20SISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.722008	20	PASS
			NV	10	180000.00	34.749035	20	FAIL
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.722008	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.692308	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.846154	20	PASS

	Ant1	5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	-40000.00	-7.633588	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	20000.00	3.816794	20	PASS
	Ant2	5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	-40000.00	-7.633588	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	160000.00	27.850305	20	FAIL
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5745	NV	-30	-40000.00	-6.962576	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	20000.00	3.481288	20	PASS
	Ant1	5785	NV	-30	0.00	0.000000	20	PASS

			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-60000.00	-10.371651	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	40000.00	6.914434	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.457217	20	PASS
	Ant2	5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	40000.00	6.914434	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5825	NV	-30	40000.00	6.866953	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
	Ant2	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.866953	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	20000.00	3.433476	20	PASS
11N40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS

			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.707129	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.707129	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5190	NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.707129	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.707129	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	-40000.00	-7.648184	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.648184	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5755	NV	-30	40000.00	6.950478	20	PASS
			NV	-20	-40000.00	-6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS

			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.950478	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.950478	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.902502	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS
			NV	0	-40000.00	-6.902502	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	-40000.00	-6.902502	20	PASS
11AC20SISO	Ant1	5180	NV	-30	40000.00	7.722008	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	20000.00	3.861004	20	PASS

			NV	10	20000.00	3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	20000.00	3.861004	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	20000.00	3.846154	20	PASS
	Ant2	5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	-20000.00	-3.846154	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS

			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	-40000.00	-7.633588	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.816794	20	PASS
	Ant2	5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	-40000.00	-7.633588	20	PASS
			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
	Ant2	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS

			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	40000.00	6.914434	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
	Ant1	5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
	Ant2	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.707129	20	PASS

			NV	40	40000.00	7.707129	20	PASS
			NV	50	40000.00	7.707129	20	PASS
	Ant2	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS

	Ant2	5755	NV	50	40000.00	6.950478	20	PASS
			NV	-30	40000.00	6.950478	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	-40000.00	-6.950478	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.902502	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.902502	20	PASS
	Ant2	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

	Ant2	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-80000.00	-15.355086	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-15.355086	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	15.355086	20	PASS
	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-80000.00	-13.852814	20	PASS
			NV	20	-80000.00	-13.852814	20	PASS
			NV	30	-80000.00	-13.852814	20	PASS
			NV	40	-240000.00	-41.558442	20	FAIL
			NV	50	0.00	0.000000	20	PASS
11AX20SISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS

			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS

			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS

			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.433476	20	PASS
11AX40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS

			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS

			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AX80SISO	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS

			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11A-CDD	Ant1	5180	NV	-30	-20000.00	-3.861004	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS

			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	-20000.00	-3.846154	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	-20000.00	-3.846154	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.846154	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant2	5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.816794	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS

			NV	50	0.00	0.000000	20	PASS
	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
	Ant2	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
	Ant1	5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
	Ant2	5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.457217	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-20000.00	-3.457217	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS

	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11N20MIMO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	40000.00	7.722008	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5180	NV	-30	-20000.00	-3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	-30	-180000.00	-34.615385	20	FAIL

			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	-40000.00	-7.692308	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5200	NV	-30	-140000.00	-26.923077	20	FAIL
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.633588	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.816794	20	PASS
			NV	0	-40000.00	-7.633588	20	PASS
			NV	10	-40000.00	-7.633588	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	60000.00	11.450382	20	PASS
	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS

			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.962576	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	40000.00	6.962576	20	PASS
	Ant1	5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
	Ant2	5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.914434	20	PASS
	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS

			NV	0	20000.00	3.433476	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.433476	20	PASS
	Ant2	5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	40000.00	6.866953	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11N40MIMO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.707129	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	-40000.00	-7.707129	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	-40000.00	-7.707129	20	PASS
			NV	30	-40000.00	-7.707129	20	PASS
			NV	40	-40000.00	-7.707129	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
	Ant1	5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	0.00	0.000000	20	PASS

			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	-40000.00	-7.648184	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.648184	20	PASS
	Ant1	5755	NV	-30	-40000.00	-6.950478	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	40000.00	6.950478	20	PASS
	Ant1	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	-40000.00	-6.902502	20	PASS

			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
	Ant2	5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC20MIM O	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5180	NV	-30	-20000.00	-3.861004	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS

			NV	30	20000.00	3.846154	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
			NV	50	20000.00	3.846154	20	PASS
	Ant1	5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.816794	20	PASS
	Ant2	5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS

			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
	Ant2	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant2	5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	6.914434	20	PASS
	Ant1	5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.433476	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	0.00	0.000000	20	PASS

			NV	50	0.00	0.000000	20	PASS
	Ant2	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11AC40MIM O	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.707129	20	PASS
	Ant1	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.648184	20	PASS
			NV	50	-40000.00	-7.648184	20	PASS

	Ant2	5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.648184	20	PASS
	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5755	NV	-30	40000.00	6.950478	20	PASS
			NV	-20	40000.00	6.950478	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	40000.00	6.950478	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5795	NV	-30	0.00	0.000000	20	PASS

			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	6.902502	20	PASS
			NV	10	40000.00	6.902502	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	6.902502	20	PASS
			NV	40	40000.00	6.902502	20	PASS
			NV	50	40000.00	6.902502	20	PASS
11AC80MIM O	Ant1	5210	NV	-30	-80000.00	-15.355086	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-80000.00	-15.355086	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	80000.00	15.355086	20	PASS
			NV	50	80000.00	15.355086	20	PASS
	Ant2	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	80000.00	15.355086	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-80000.00	-15.355086	20	PASS
			NV	20	80000.00	15.355086	20	PASS
			NV	30	80000.00	15.355086	20	PASS
			NV	40	80000.00	15.355086	20	PASS
			NV	50	-80000.00	-15.355086	20	PASS
	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	80000.00	13.852814	20	PASS
			NV	-10	-80000.00	-13.852814	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-80000.00	-13.852814	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-80000.00	-13.852814	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS

			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-80000.00	-13.852814	20	PASS
			NV	20	-480000.00	-83.116883	20	FAIL
			NV	30	0.00	0.000000	20	PASS
			NV	40	-80000.00	-13.852814	20	PASS
			NV	50	80000.00	13.852814	20	PASS
11AX20MIM O	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5200	NV	-30	20000.00	3.846154	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS

			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.816794	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.816794	20	PASS
	Ant1	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	20000.00	3.481288	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.481288	20	PASS

			NV	10	20000.00	3.481288	20	PASS
			NV	20	20000.00	3.481288	20	PASS
			NV	30	20000.00	3.481288	20	PASS
			NV	40	20000.00	3.481288	20	PASS
			NV	50	20000.00	3.481288	20	PASS
	Ant1	5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	20000.00	3.457217	20	PASS
	Ant2	5785	NV	-30	20000.00	3.457217	20	PASS
			NV	-20	20000.00	3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.457217	20	PASS
			NV	10	20000.00	3.457217	20	PASS
			NV	20	20000.00	3.457217	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	20000.00	3.457217	20	PASS
	Ant1	5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.433476	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5825	NV	-30	20000.00	3.433476	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.433476	20	PASS

			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.433476	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.433476	20	PASS
11AX40MIM O	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS

			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
	Ant1	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5795	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS

11AX80MIM O			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-80000.00	-15.355086	20	PASS
	Ant2	5210	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-13.852814	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS

			NV	50	0.00	0.000000	20	PASS
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Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

7.8. Radiated Spurious Emission Measurement

7.8.1. Test Limit

- (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 solely in the 5.725–5.850 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.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.8.2. Test Procedure Used

KDB 789033 D02v02r01 – Section G

ANSI C63.10-2013 – Section 12.7.7.2, 12.7.7.6, 12.7.5

7.8.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Quasi-Peak Measurements below 1GHz

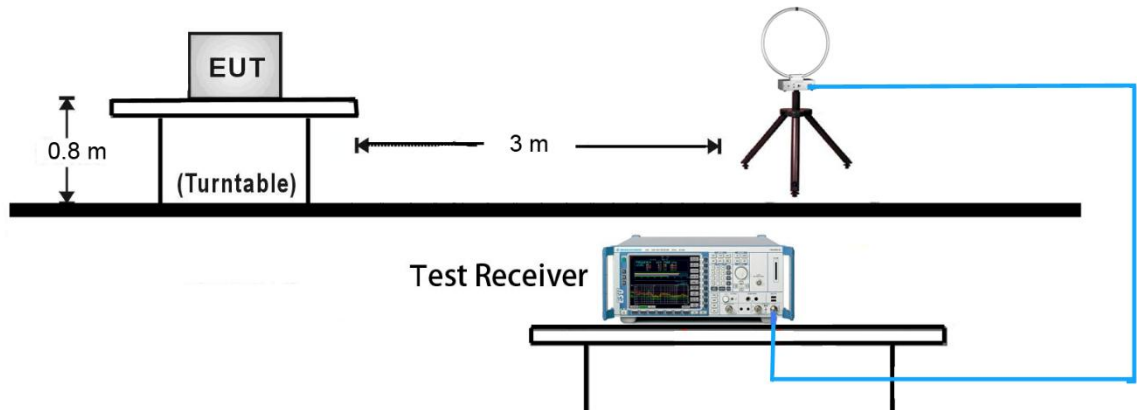
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

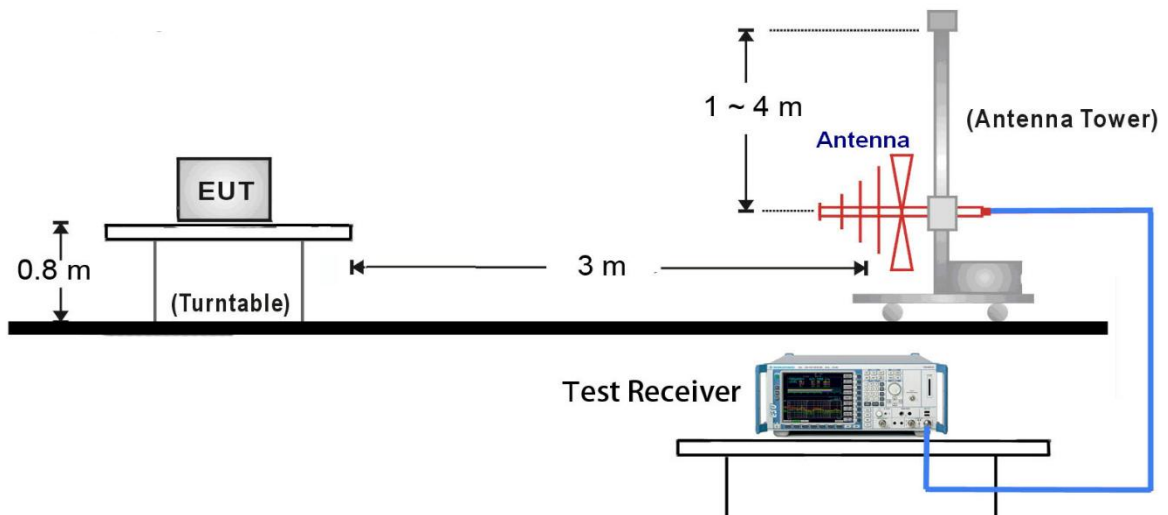
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

7.8.4. Test Setup

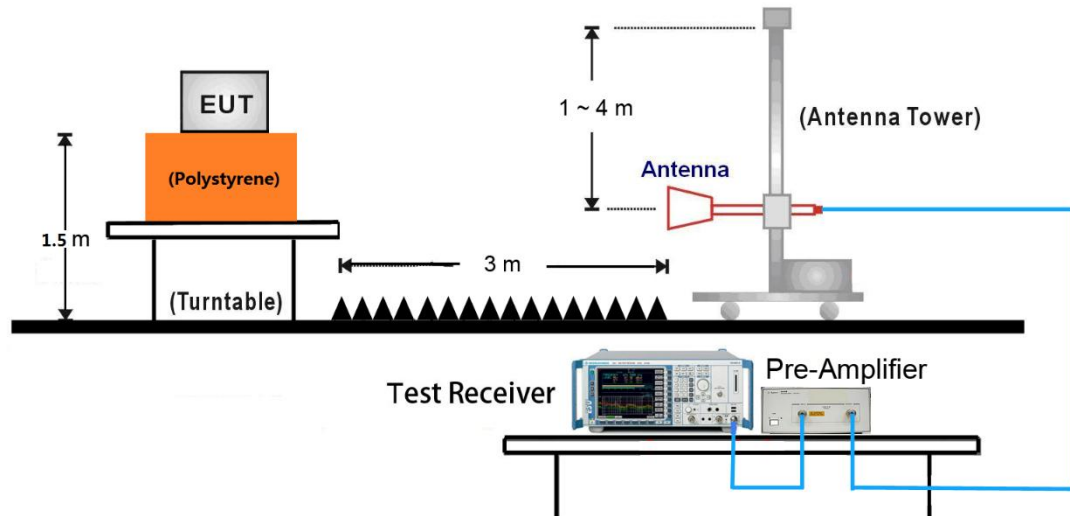
9kHz ~ 30MHz Test Setup:



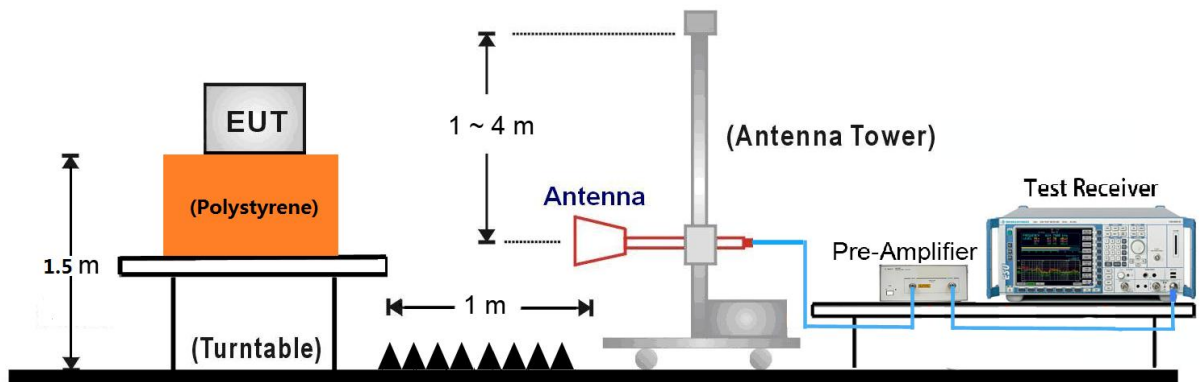
30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:



18GHz ~40GHz Test Setup:



7.8.5. Test Result

There are three types of antennas for the Wireless Router Module. The antennas are DR5G15, DR5G17 and DR5G19 were tested, the report only show the worst case data.

The Conducted Spurious Emission test data:

Test Mode	Antenna	Channel	Frequency Range [MHz]	Max. Frequency [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	1766.38	-53.3	≤-27	PASS
			5360~40000	38161.77	-49.39	≤-27	PASS
	Ant2	5180	30~5140	4800.36	-52.97	≤-27	PASS
			5360~40000	38940.02	-50.07	≤-27	PASS
	Ant1	5200	30~5140	5102.02	-54.17	≤-27	PASS
			5360~40000	38115.58	-49.84	≤-27	PASS
	Ant2	5200	30~5140	4800.36	-53.75	≤-27	PASS
			5360~40000	38898.45	-49.75	≤-27	PASS
	Ant1	5240	30~5140	4800.36	-54.68	≤-27	PASS
			5360~40000	37908.9	-49.48	≤-27	PASS
	Ant2	5240	30~5140	4800.01	-52.62	≤-27	PASS
			5360~40000	38478.15	-50.34	≤-27	PASS
	Ant1	5745	30~5650	4800.07	-43.52	≤-27	PASS
			5925~40000	38167.9	-48.59	≤-27	PASS
	Ant2	5745	30~5650	4800.44	-44.52	≤-27	PASS
			5925~40000	5936.36	-46.68	≤-27	PASS
	Ant1	5785	30~5650	4800.26	-44.16	≤-27	PASS
			5925~40000	38495.02	-49.48	≤-27	PASS
	Ant2	5785	30~5650	4800.07	-44.37	≤-27	PASS
			5925~40000	5979.52	-46.16	≤-27	PASS
	Ant1	5825	30~5650	4800.07	-43.49	≤-27	PASS
			5925~40000	38865.3	-49.26	≤-27	PASS
	Ant2	5825	30~5650	4800.26	-44.62	≤-27	PASS
			5925~40000	6019.27	-45.79	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5024.51	-55.7	≤-27	PASS
			5360~40000	38931.93	-49.55	≤-27	PASS
	Ant2	5180	30~5140	4800.01	-52.19	≤-27	PASS
			5360~40000	38234.51	-49.2	≤-27	PASS
	Ant1	5200	30~5140	4800.19	-54.79	≤-27	PASS

	Ant2	5200	5360~40000	38040.53	-50.11	≤ -27	PASS
			30~5140	4800.36	-53.6	≤ -27	PASS
			5360~40000	38970.04	-49.4	≤ -27	PASS
	Ant1	5240	30~5140	4799.67	-54.99	≤ -27	PASS
			5360~40000	38053.23	-49.51	≤ -27	PASS
	Ant2	5240	30~5140	4800.53	-53.74	≤ -27	PASS
			5360~40000	38944.63	-49.2	≤ -27	PASS
	Ant1	5745	30~5650	4800.26	-43.91	≤ -27	PASS
			5925~40000	38100.89	-48.84	≤ -27	PASS
	Ant2	5745	30~5650	4800.26	-43.5	≤ -27	PASS
			5925~40000	5940.9	-46.96	≤ -27	PASS
	Ant1	5785	30~5650	4800.07	-44.44	≤ -27	PASS
			5925~40000	35462.35	-49.27	≤ -27	PASS
	Ant2	5785	30~5650	4800.07	-43.07	≤ -27	PASS
			5925~40000	5976.11	-46.54	≤ -27	PASS
	Ant1	5825	30~5650	4800.07	-44.06	≤ -27	PASS
			5925~40000	38948.22	-49.58	≤ -27	PASS
11N40SISO	Ant1	5190	30~5140	4800.53	-55.58	≤ -27	PASS
			5360~40000	38861.5	-49.62	≤ -27	PASS
	Ant2	5190	30~5140	4800.19	-53.68	≤ -27	PASS
			5360~40000	38966.57	-49.43	≤ -27	PASS
	Ant1	5230	30~5140	4800.19	-53.84	≤ -27	PASS
			5360~40000	38080.94	-49.98	≤ -27	PASS
	Ant2	5230	30~5140	4800.19	-52.25	≤ -27	PASS
			5360~40000	38875.35	-48.74	≤ -27	PASS
	Ant1	5755	30~5650	4800.26	-43.49	≤ -27	PASS
			5925~40000	38105.43	-49.71	≤ -27	PASS
	Ant2	5755	30~5650	4800.07	-43.79	≤ -27	PASS
			5925~40000	38014.56	-48.27	≤ -27	PASS
11AC20SISO	Ant1	5795	30~5650	4800.26	-41.51	≤ -27	PASS
			5925~40000	38169.04	-49.2	≤ -27	PASS
	Ant2	5795	30~5650	4800.26	-43.29	≤ -27	PASS
			5925~40000	5988.61	-47.32	≤ -27	PASS
	Ant1	5180	30~5140	5098.61	-42.24	≤ -27	PASS
			5360~40000	38978.12	-49.84	≤ -27	PASS

	Ant2	5180	30~5140	4800.01	-53.26	≤-27	PASS
			5360~40000	38041.69	-49.09	≤-27	PASS
	Ant1	5200	30~5140	4800.36	-54	≤-27	PASS
			5360~40000	38068.24	-49.31	≤-27	PASS
	Ant2	5200	30~5140	4800.19	-53.07	≤-27	PASS
			5360~40000	38883.44	-49.49	≤-27	PASS
	Ant1	5240	30~5140	4800.01	-54.43	≤-27	PASS
			5360~40000	38050.92	-50.31	≤-27	PASS
	Ant2	5240	30~5140	4800.36	-52.93	≤-27	PASS
			5360~40000	38874.2	-49.75	≤-27	PASS
	Ant1	5745	30~5650	4800.07	-46.06	≤-27	PASS
			5925~40000	38069.08	-49.23	≤-27	PASS
	Ant2	5745	30~5650	4800.26	-44.45	≤-27	PASS
			5925~40000	5934.09	-46.64	≤-27	PASS
	Ant1	5785	30~5650	5104.49	-44.59	≤-27	PASS
			5925~40000	38965.26	-49.13	≤-27	PASS
	Ant2	5785	30~5650	4800.26	-44.42	≤-27	PASS
			5925~40000	5978.38	-46.22	≤-27	PASS
	Ant1	5825	30~5650	4800.07	-46.92	≤-27	PASS
			5925~40000	38006.61	-49.06	≤-27	PASS
	Ant2	5825	30~5650	5630.7	-44.11	≤-27	PASS
			5925~40000	6018.14	-47.51	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	4800.36	-53.02	≤-27	PASS
			5360~40000	38905.38	-49.7	≤-27	PASS
	Ant2	5190	30~5140	4800.36	-52.93	≤-27	PASS
			5360~40000	38881.13	-49.53	≤-27	PASS
	Ant1	5230	30~5140	4800.19	-52.5	≤-27	PASS
			5360~40000	38065.93	-49.24	≤-27	PASS
	Ant2	5230	30~5140	4800.01	-52.42	≤-27	PASS
			5360~40000	37901.97	-50.05	≤-27	PASS
	Ant1	5755	30~5650	4800.26	-46.03	≤-27	PASS
			5925~40000	37920.29	-50.87	≤-27	PASS
	Ant2	5755	30~5650	4800.26	-43.51	≤-27	PASS
			5925~40000	5949.99	-49.09	≤-27	PASS
	Ant1	5795	30~5650	4800.07	-42.97	≤-27	PASS
			5925~40000	38028.19	-49.11	≤-27	PASS
	Ant2	5795	30~5650	4800.07	-43.31	≤-27	PASS

			5925~40000	5989.74	-46.91	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5048.19	-55.73	≤-27	PASS
			5360~40000	38068.24	-50.08	≤-27	PASS
	Ant2	5210	30~5140	5113.6	-55.69	≤-27	PASS
			5360~40000	37958.55	-49.44	≤-27	PASS
	Ant1	5775	30~5650	5280.02	-45.84	≤-27	PASS
			5925~40000	38940.27	-48.95	≤-27	PASS
	Ant2	5775	30~5650	5591.18	-49.77	≤-27	PASS
			5925~40000	38052.05	-48.69	≤-27	PASS
11AX20SISO	Ant1	5180	30~5140	4800.36	-54.46	≤-27	PASS
			5360~40000	38919.23	-49.86	≤-27	PASS
	Ant2	5180	30~5140	4800.01	-52.97	≤-27	PASS
			5360~40000	38343.05	-49.44	≤-27	PASS
	Ant1	5200	30~5140	4800.7	-53.97	≤-27	PASS
			5360~40000	38161.77	-49.52	≤-27	PASS
	Ant2	5200	30~5140	4800.19	-52.66	≤-27	PASS
			5360~40000	38889.21	-49.08	≤-27	PASS
	Ant1	5240	30~5140	5097.25	-48.05	≤-27	PASS
			5360~40000	38128.29	-50.08	≤-27	PASS
	Ant2	5240	30~5140	4800.19	-52.3	≤-27	PASS
			5360~40000	38752.96	-49.54	≤-27	PASS
	Ant1	5745	30~5650	4800.26	-45.01	≤-27	PASS
			5925~40000	38049.77	-50.23	≤-27	PASS
	Ant2	5745	30~5650	4800.07	-43.19	≤-27	PASS
			5925~40000	5944.31	-48.14	≤-27	PASS
	Ant1	5785	30~5650	4800.07	-45.26	≤-27	PASS
			5925~40000	38991.38	-48.45	≤-27	PASS
	Ant2	5785	30~5650	5590.99	-42.56	≤-27	PASS
			5925~40000	5973.84	-46.33	≤-27	PASS
	Ant1	5825	30~5650	4800.07	-45.24	≤-27	PASS
			5925~40000	38858.49	-50.2	≤-27	PASS
	Ant2	5825	30~5650	4800.26	-43.07	≤-27	PASS
			5925~40000	6011.32	-47.41	≤-27	PASS
11AX40SISO	Ant1	5190	30~5140	4800.19	-52.5	≤-27	PASS
			5360~40000	38897.29	-48.33	≤-27	PASS
	Ant2	5190	30~5140	4800.19	-52.46	≤-27	PASS
			5360~40000	37120.26	-49.59	≤-27	PASS