ACCREDITED
CERTIFICATE #5473.01

Test Report No.:
FCC2024-0023-RF3

TEST REPORT

FCC ID	:	2BG7U-7912120X9D01
Applicant	:	Xiamen Yaxon Zhilian Technology Co.,Ltd.
Product Name	:	Intelligent Cockpit Domain Controller
Model No.	:	IMP-202M-FD

CVC Testing Technology Co., Ltd.

Applicant	**Name:** Xiamen Yaxon Zhilian Technology Co.,Ltd. **Address:** 303-E, District C, Innovation Building, Software Park, Torch High-tech Zone, Xiamen, Fujian, China
Manufacturer	**Name:** Xiamen Yaxon Zhilian Technology Co.,Ltd. **Address:** 303-E, District C, Innovation Building, Software Park, Torch High-tech Zone, Xiamen, Fujian, China
Equipment Under Test	**Product Name :** Intelligent Cockpit Domain Controller **Model No. :** IMP-202M-FD **Trade mark :** N/A **Serial no.** : N/A **Sampling :** 1-1

Date of Receipt.	2024.5.22	Date of Testing	2024.7.20

Test Specification	**Test Result**
FCC CFR47 Part 15E ANSI C63.10-2020/Cor1-2023 KDB 789033 D02 General UNII Test Procedures New Rules v01r04 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02	PASS

Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. **Seal of CVC** **Issue Date:** 2024-8-26

Approved by:	Reviewed by:	Tested by:
Chen Huawen	**Xu Zhenfei**	**Lu Weiji**
		

Other Aspects: NONE.

Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested

Note: This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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1. General Product Information

1.1 General information

Product Name	Intelligent Cockpit Domain Controller
Model No.	IMP-202M-FD
Additional model	/
Power Supply	DC 27.5V
Serial Number(SN)	/
Hardware	IMP-202M-FD-WD
Software	MPU：c0055-mt-701-wh11 MCU：WD_E3
specific power settings	IEEE 802.11a: 16 IEEE 802.11n(20MHz): 14.5 IEEE 802.11n(40MHz): 14.5 IEEE 802.11ac(20MHz): 14.5 IEEE 802. 11ac (40MHz): 14.5 IEEE 802. 11ac (80MHz): 14.5
Antenna Type	Internal antenna
Antenna Gain	U-NII-1: Ant1:3.1 dBi, Ant2:3.1 dBi (provided by client) U-NII-2C: Ant1:3.1 dBi, Ant2:3.1 dBi (provided by client) U-NII-3: Ant1:3.1 dBi, Ant2:3.1 dBi (provided by client)
Beamforming gain	Unsupported
Frequency Range	U-NII-1: For 20MHz:5180-5240MHz For 40MHz:5190-5230MHz For 80MHz:5210MHz U-NII-2C: For 20MHz:5500-5700MHz For 40MHz:5510-5670MHz For 80MHz:5530-5610MHz U-NII-3: For 20MHz:5745-5825MHz For 40MHz:5755-5795MHz For 80MHz:5775MHz
Modulation Type	802.11a/n(HT20/HT40): 64QAM, 16QAM, QPSK, BPSK for OFDM 802.11ac(VHT20/VHT40/VHT80): 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Max. Conducted Power	U-NII-1: 16.02 dBm U-NII-2A: 14.74 dBm U-NII-3: 15.11 dBm
DFS device type	☐Master ☐Slave with radar detection ■Slave without radar detection
TPC Function	☐Support ■Not support

TDWR Band	☐Support ■Not support
Operate Temp.Range	-35~80℃
Note： 1. The information of the EUT is declared by the manufacturer. 2. The laboratory is not responsible for the product technical specification provided by the client.	

2. Test Sites

2.1 Test Facilities

The tests and measurements refer to this report were performed by RF testing Lab of CVC Testing Technology Co., Ltd.

Add.: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou,Guangdong,510663, People's Republic of China

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FCC(Test firm designation number：CN1282)

2.2 Description of Non-standard Method and Deviations

The testing and measurement methods used in this report are applied by all standard methods. Not any non-standard method or deviation from the used standards was used.

2.3 List of Test and Measurement Instruments

Refer to **Appendix X**.

3. Test Configuration

3.1 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Test Mode	Antenna Delivery	Test Channel
IEEE 802.11A	1TX / 1RX	36,44,48,100,116,140,149,157,165
IEEE 802.11N 20 MIMO	2TX / 2RX	36,44,48,100,116,140,149,157,165
IEEE 802.11N 40 MIMO	2TX / 2RX	38,46,102,110,134,151,159
IEEE 802.11AC 20 MIMO	2TX / 2RX	36,44,48,100,116,140,149,157,165
IEEE 802.11AC 40 MIMO	2TX / 2RX	38,46,102,110,134,151,159
IEEE 802.11AC 80 MIMO	2TX / 2RX	42,106,122,155

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate and different channels.. Preliminary tests have been done on all the configurations for confirming worst case. Data rate below means worst-case rate of each test item.

Worst-case data rates and channels are shown as following table.

Test Mode	Antenna Delivery	Data Rate		
		Antenna 1	Antenna 2	MIMO
IEEE 802.11A	1TX / 1RX	6	6	/
IEEE 802.11N 20MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11N 40MHz	2TX / 2RX	MCS 0	MCS 0	MCS 8
IEEE 802.11AC 20MHz	2TX / 2RX	MCS 0	MCS 0	MCS 0
IEEE 802.11AC 40MHz	2TX / 2RX	MCS 0	MCS 0	MCS 0
IEEE 802.11AC 80MHz	2TX / 2RX	MCS 0	MCS 0	MCS 0

Test Items	Test Antennas	Test Modes	Test Channels
Maximum conducted output power	Antenna 1, Antenna 2, MIMO	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80	36,44,48,100,116,140,149,157,165/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 42,106,122,155
Maximum Power spectral density	Antenna 1, Antenna 2, MIMO	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80	36,44,48,100,116,140,149,157,165/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 42,106,122,155
Unwanted Emissions (Band Edge Measurement)	MIMO	IEEE 802.11AC 20	36,48,100,140,149,165
Unwanted Emissions (Spurious Emissions)	MIMO	IEEE 802.11AC 20	36,44,48,100,116,140,149,157,165
Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth	Antenna 1, Antenna 2	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80	36,44,48,100,116,140,149,157,165/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 42,106,122,155
Frequency stability	Antenna 1, Antenna 2	IEEE 802.11A/ IEEE 802.11N 20/ IEEE 802.11N 40/ IEEE 802.11AC 20/ IEEE 802.11AC 40/ IEEE 802.11AC 80	36,44,48,100,116,140,149,157,165/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 36,44,48,100,116,140,149,157,165/ 38,46,102,110,134,151,159/ 42,106,122,155
Dynamic Frequency Selection (DFS)	Antenna 1	IEEE 802.11AC 80	106

3.2 Duty cycle

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.39	1.43	97.20	---	---
	Ant2	5180	1.39	1.43	97.20	---	---
	Ant1	5220	1.39	1.43	97.20	---	---
	Ant2	5220	1.38	1.43	96.50	---	---
	Ant1	5240	1.39	1.43	97.20	---	---
	Ant2	5240	1.39	1.42	97.89	---	---
	Ant1	5500	1.39	1.43	97.20	---	---
	Ant2	5500	1.40	1.43	97.90	---	---
	Ant1	5580	1.39	1.42	97.89	---	---
	Ant2	5580	1.39	1.43	97.20	---	---
	Ant1	5700	1.39	1.43	97.20	---	---
	Ant2	5700	1.40	1.43	97.90	---	---
	Ant1	5745	1.39	1.43	97.20	---	---
	Ant2	5745	1.40	1.43	97.90	---	---
	Ant1	5785	1.39	1.43	97.20	---	---
	Ant2	5785	1.39	1.43	97.20	---	---
	Ant1	5825	1.39	1.43	97.20	---	---
	Ant2	5825	1.39	1.43	97.20	---	---
11N20MIMO	Ant1	5180	1.29	1.33	96.99	---	---
	Ant2	5180	1.30	1.33	97.74	---	---
	Ant1	5220	1.29	1.33	96.99	---	---
	Ant2	5220	1.30	1.34	97.01	---	---
	Ant1	5240	1.30	1.33	97.74	---	---
	Ant2	5240	1.29	1.34	96.27	---	---
	Ant1	5500	1.29	1.33	96.99	---	---
	Ant2	5500	1.30	1.33	97.74	---	---
	Ant1	5580	1.30	1.34	97.01	---	---
	Ant2	5580	1.30	1.33	97.74	---	---
	Ant1	5700	1.30	1.33	97.74	---	---
	Ant2	5700	1.29	1.33	96.99	---	---
	Ant1	5745	1.29	1.34	96.27	---	---
	Ant2	5745	1.30	1.34	97.01	---	---
	Ant1	5785	1.29	1.33	96.99	---	---
	Ant2	5785	1.30	1.34	97.01	---	---
	Ant1	5825	1.30	1.33	97.74	---	---
	Ant2	5825	1.30	1.34	97.01	---	---
11N40MIMO	Ant1	5190	0.65	0.69	94.20	---	---
	Ant2	5190	0.65	0.69	94.20	---	---
	Ant1	5230	0.65	0.69	94.20	---	---
	Ant2	5230	0.65	0.69	94.20	---	---
	Ant1	5510	0.65	0.69	94.20	---	---
	Ant2	5510	0.65	0.68	95.59	---	---
	Ant1	5550	0.65	0.69	94.20	---	---
	Ant2	5550	0.65	0.69	94.20	---	---
	Ant1	5670	0.65	0.69	94.20	---	---
	Ant2	5670	0.65	0.68	95.59	---	---
	Ant1	5755	0.65	0.69	94.20	---	---
	Ant2	5755	0.65	0.69	94.20	---	---
	Ant1	5795	0.65	0.68	95.59	---	---
	Ant2	5795	0.64	0.68	94.12	---	---
11AC20MIMO	Ant1	5180	0.68	0.72	94.44	---	---
	Ant2	5180	0.68	0.72	94.44	---	---
	Ant1	5220	0.68	0.72	94.44	---	---
	Ant2	5220	0.68	0.71	95.77	---	---
	Ant1	5240	0.68	0.72	94.44	---	---
	Ant2	5240	0.68	0.72	94.44	---	---
	Ant1	5500	0.68	0.71	95.77	---	---

	Ant2	5500	0.68	0.72	94.44	---	---
	Ant1	5580	0.68	0.71	95.77	---	---
	Ant2	5580	0.68	0.72	94.44	---	---
	Ant1	5700	0.68	0.71	95.77	---	---
	Ant2	5700	0.68	0.71	95.77	---	---
	Ant1	5745	0.68	0.72	94.44	---	---
	Ant2	5745	0.68	0.72	94.44	---	---
	Ant1	5785	0.68	0.71	95.77	---	---
	Ant2	5785	0.68	0.71	95.77	---	---
	Ant1	5825	0.68	0.71	95.77	---	---
	Ant2	5825	0.68	0.72	94.44	---	---
11AC40MIMO	Ant1	5190	0.35	0.39	89.74	---	---
	Ant2	5190	0.35	0.39	89.74	---	---
	Ant1	5230	0.35	0.39	89.74	---	---
	Ant2	5230	0.35	0.38	92.11	---	---
	Ant1	5510	0.35	0.39	89.74	---	---
	Ant2	5510	0.36	0.39	92.31	---	---
	Ant1	5550	0.35	0.39	89.74	---	---
	Ant2	5550	0.36	0.39	92.31	---	---
	Ant1	5670	0.35	0.39	89.74	---	---
	Ant2	5670	0.35	0.39	89.74	---	---
	Ant1	5755	0.35	0.39	89.74	---	---
	Ant2	5755	0.35	0.39	89.74	---	---
	Ant1	5795	0.35	0.39	89.74	---	---
	Ant2	5795	0.35	0.39	89.74	---	---
11AC80MIMO	Ant1	5210	0.19	0.22	86.36	---	---
	Ant2	5210	0.19	0.23	82.61	---	---
	Ant1	5530	0.19	0.23	82.61	---	---
	Ant2	5530	0.19	0.23	82.61	---	---
	Ant1	5610	0.19	0.22	86.36	---	---
	Ant2	5610	0.18	0.22	81.82	---	---
	Ant1	5775	0.19	0.23	82.61	---	---
	Ant2	5775	0.18	0.22	81.82	---	---

4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Verdict	Note
Conducted Emissions	15.207	N/A	See note 2
Maximum conducted output power	15.407(a)	PASS	Appendix C of WIFI5G_ diagram
Maximum Power spectral density	15.407(a)	PASS	Appendix D of WIFI5G_ diagram
Unwanted Emissions	15.407(b)	PASS	/
Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth	15.407(e), 15.407(a)	PASS	Appendix A of WIFI5G_ diagram
Frequency stability	15.407(g)	PASS	Appendix E of WIFI5G_ diagram
Dynamic Frequency Selection (DFS)	15.407(h)	PASS	/
Antenna Requirement	15.203	PASS	See note 1

Note 1: According to 15.203, it is considered sufficient to comply with the provisions of this section.
Note 2: Not applicable to battery powered devices.

5. Measurement procedure

5.1 Conducted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2020/Cor1-2023.Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.
The test is in transmitting mode.

Limits:

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.		

Test Results:

Conducted Emission applies to an intentional radiator that is designed to be connected to the public utility (AC) power line. Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

5.2 Unwanted Emission

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter)..

Test the EUT in the lowest channel ,the middle channel ,the Highest channel

The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.

Repeat above procedures until all frequencies measured was complete.

Limits:

1. For transmitters operating in the 5725-5850 MHz band: 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.
2. 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(68.2dBμV/m).
3. 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(68.2dBμV/m).
4. 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(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、E[dBμV/m] = EIRP[dBm] - 20 log(d[meters]) + 104.77, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters

5. Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency	Limit (μV/m)	Limit (dBμV/m @3m)	Remark
0.009MHz-0.490MHz	2400/F(kHz)@300m	20lg(24000000/F(kHz))	Quasi-peak Level
0.490MHz~1.705MHz	24000/F(kHz)@30m	20lg(2400000/F(kHz))	Quasi-peak Level
1.705MHz~30.0MHz	30@30m	69.54	Quasi-peak Level
30MHz-88MHz	100@3m	40.0	Quasi-peak Level
88MHz-216MHz	150@3m	43.5	Quasi-peak Level
216MHz-960MHz	200@3m	46.0	Quasi-peak Level
960MHz-1GHz	500@3m	54.0	Quasi-peak Level
Above 1GHz	500@3m	54.0	Average Level
	5000@3m	74.0	Peak Level

Measurement Data

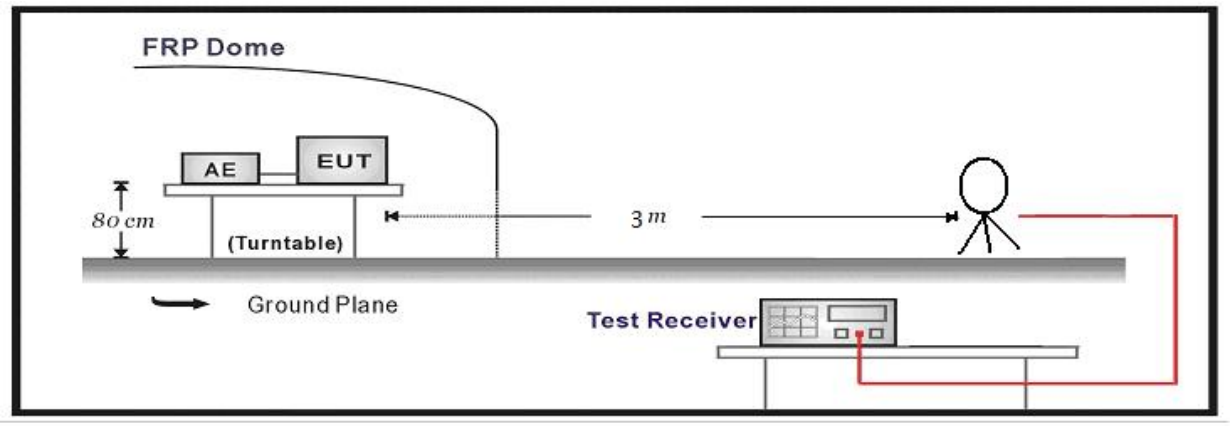
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

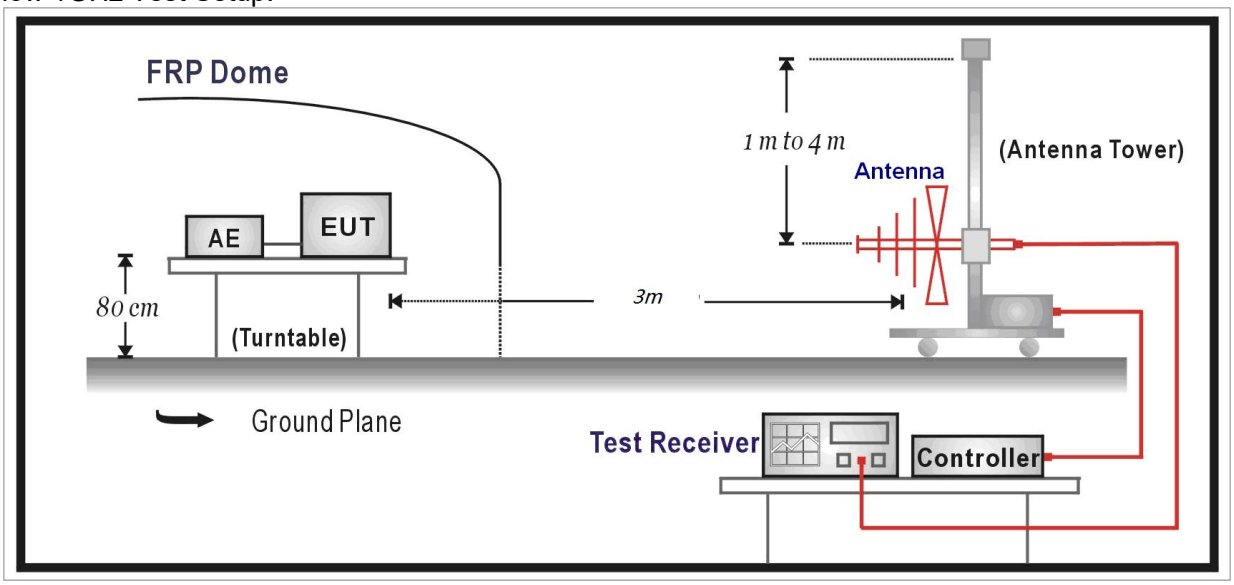
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Test Setup:

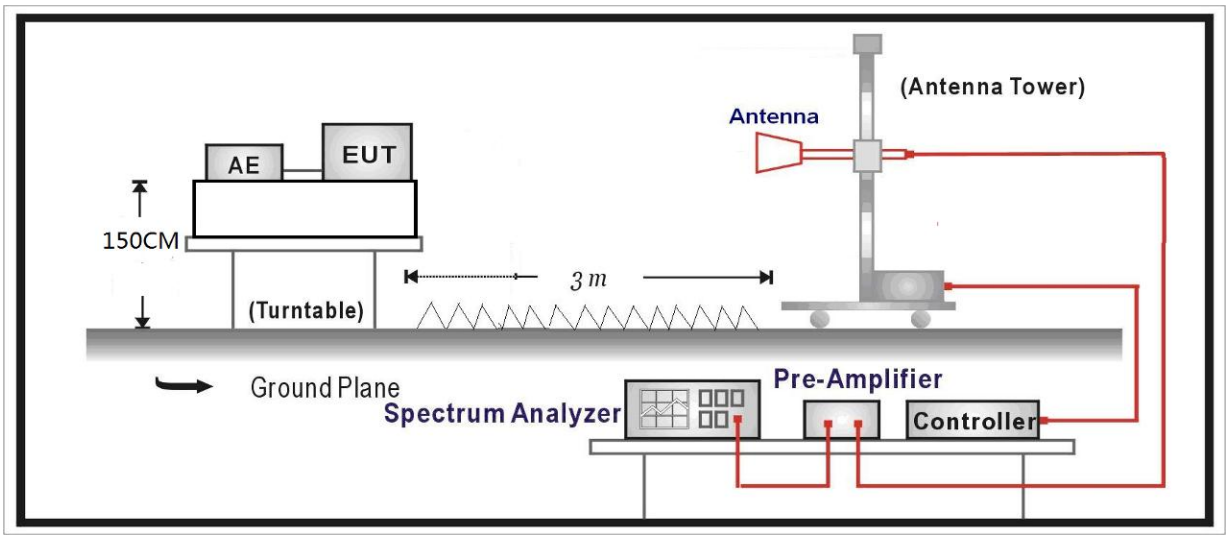
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
1GHz-26.5G	3.68 dB
26.5G-40GHz	4.76dB

5.2.1 SPURIOUS EMISSIONS:

5.2.1.1 Below 1GHz:

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels and all antennas, 802.11ac20, Channel 36, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Radiates Emission	9k~1G
Test channel	Worst-Case
Polarity	Horizontal

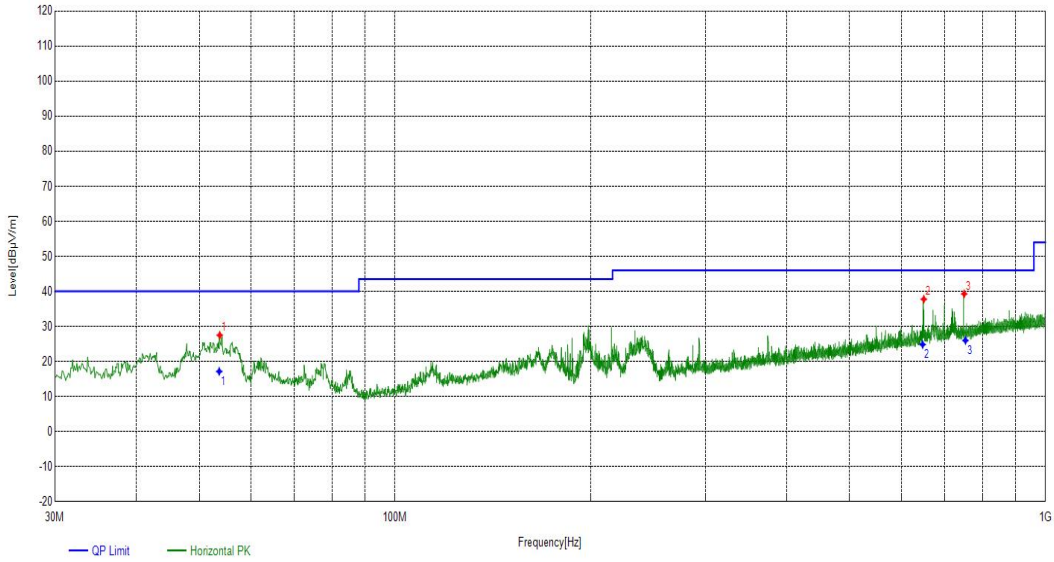
Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
53.7674	20.23	7.26	27.49	40.00	12.51	PK	100	207	PASS
650.086	29.55	8.22	37.77	46.00	8.23	PK	100	253	PASS
750.006	31.27	8.03	39.30	46.00	6.70	PK	100	79	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

Final Data List

Frequency [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
53.6709	20.23	17.16	40.00	22.84	200	207	PASS
647.3295	29.55	24.84	46.00	21.16	240	253	PASS
753.338	31.27	26.00	46.00	20.00	400	79	PASS



Radiates Emission	9k~1G
Test channel	Worst-Case
Polarity	Vertical

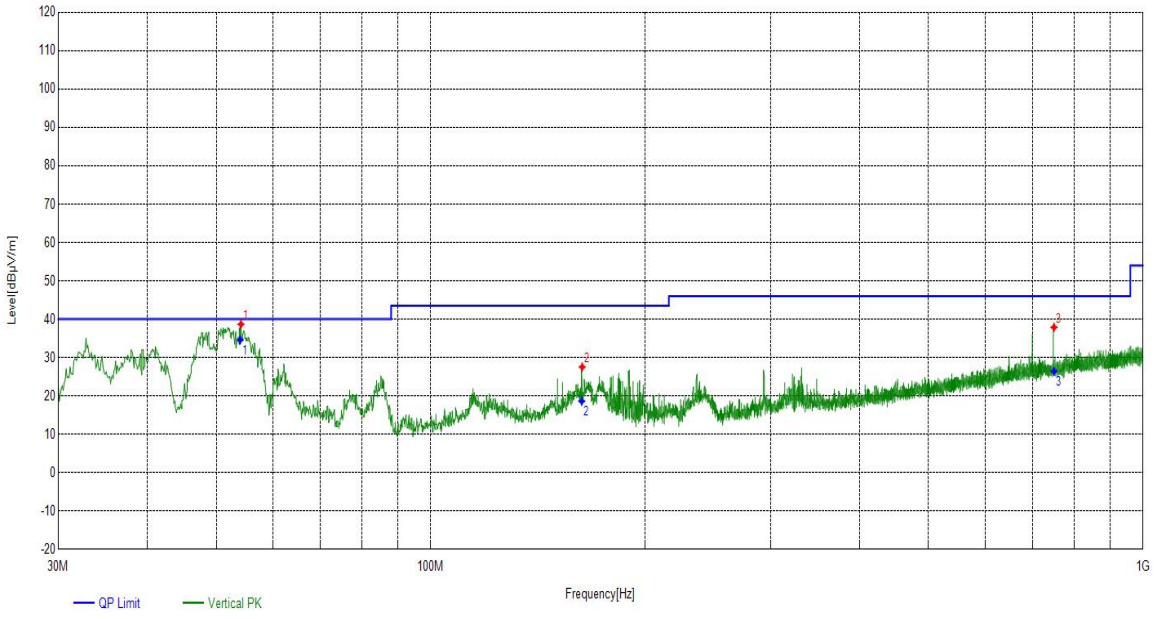
Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
54.1554	20.21	18.47	38.68	40.00	1.32	PK	100	310	PASS
163.1943	20.76	6.78	27.54	43.50	15.96	PK	100	40	PASS
750.006	31.27	6.60	37.87	46.00	8.13	PK	100	50	PASS

Note: 9kHz~30MHz have been test and test data more than 20dB margin.

Final Data List

Frequency [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
54.0167	20.21	34.61	40.00	5.39	270	307	PASS
162.9392	20.76	18.63	43.50	24.87	270	45	PASS
749.995	31.27	26.41	46.00	19.59	380	55	PASS



5.2.1.2 Above 1GHz:

During the test, the Radiates Emission from 1GHz to 40GHz was performed in all modes with all channels and all antennas, 802.11ac20, Highest, medium, lowest channels, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

5.2.1.2.1 U-NII-1:

Radiates Emission	Above 1GHz
Test channel	Lowest
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1260.026003	-8.64	52.39	43.75	74.00	30.25	PK	150	38	PASS
2476.647665	-4.98	55.14	50.16	74.00	23.84	PK	150	90	PASS
10328.8328	12.79	34.47	47.26	74.00	26.74	PK	150	310	PASS
1245.024503	-8.68	40.60	31.92	54.00	22.08	AV	150	304	PASS
2486.148615	-4.94	42.70	37.76	54.00	16.24	AV	150	10	PASS
10727.2727	12.73	22.83	35.56	54.00	18.44	AV	150	22	PASS

Radiates Emission	Above 1GHz
Test channel	Lowest
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1296.529653	-8.53	53.78	45.25	74.00	28.75	PK	150	263	PASS
3366.236624	-1.65	49.07	47.42	74.00	26.58	PK	150	244	PASS
8250.2250	9.60	35.60	45.20	74.00	28.80	PK	150	109	PASS
1350.535054	-8.37	45.47	37.10	54.00	16.90	AV	150	359	PASS
3513.251325	-1.03	39.67	38.64	54.00	15.36	AV	150	354	PASS
7850.58505	9.24	24.43	33.67	54.00	20.33	AV	150	319	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1GHz
Test channel	Medium
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1451.545155	-8.14	52.39	44.25	74.00	29.75	PK	150	180	PASS
1865.586559	-6.84	52.62	45.78	74.00	28.22	PK	150	260	PASS
7401.7401	8.99	34.91	43.90	74.00	30.10	PK	150	170	PASS
1461.546155	-8.13	40.35	32.22	54.00	21.78	AV	150	359	PASS
1928.092809	-6.62	40.61	33.99	54.00	20.01	AV	150	359	PASS
7633.3633	9.11	24.93	34.04	54.00	19.96	AV	150	296	PASS

Radiates Emission	Above 1GHz
Test channel	Medium
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1050.005001	-9.11	54.29	45.18	74.00	28.82	PK	150	1	PASS
1350.035004	-8.37	54.14	45.77	74.00	28.23	PK	150	20	PASS
7780.9780	9.21	35.57	44.78	74.00	29.22	PK	150	270	PASS
1050.505051	-8.37	45.04	36.67	54.00	17.33	AV	150	13	PASS
1350.535054	-4.72	42.55	37.83	54.00	16.17	AV	150	1	PASS
7725.7725	9.18	24.77	33.95	54.00	20.05	AV	150	110	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1GHz
Test channel	Highest
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1346.034604	-8.39	53.98	45.59	74.00	28.41	PK	150	185	PASS
1946.09461	-6.55	53.97	47.42	74.00	26.58	PK	150	146	PASS
9415.5415	11.97	33.21	45.18	74.00	28.82	PK	150	340	PASS
1348.534854	-8.39	40.86	32.47	54.00	21.53	AV	150	119	PASS
1961.09611	-6.49	41.90	35.41	54.00	18.59	AV	150	1	PASS
9282.3282	11.41	23.98	35.39	54.00	18.61	AV	150	213	PASS

Radiates Emission	Above 1GHz
Test channel	Highest
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1049.504951	-9.11	54.69	45.58	74.00	28.42	PK	150	0	PASS
1632.563256	-7.63	54.40	46.77	74.00	27.23	PK	150	354	PASS
10860.4860	12.71	34.33	47.04	74.00	26.96	PK	150	350	PASS
1050.505051	-9.11	48.63	39.52	54.00	14.48	AV	150	334	PASS
1621.562156	-7.65	43.46	35.81	54.00	18.19	AV	150	354	PASS
10248.4248	12.66	23.29	35.95	54.00	18.05	AV	150	50	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.1.2.2 U-NII-2C:

Radiates Emission	Above 1GHz
Test channel	Lowest
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1399.539954	-8.24	52.03	43.79	74.00	30.21	PK	150	280	PASS
2216.621662	-5.77	54.34	48.57	74.00	25.43	PK	150	201	PASS
7126.9126	8.98	36.09	45.07	74.00	28.93	PK	150	110	PASS
1356.035604	-8.36	40.97	32.61	54.00	21.39	AV	150	359	PASS
2127.612761	-6.01	42.25	36.24	54.00	17.76	AV	150	359	PASS
7072.9072	8.97	25.21	34.18	54.00	19.82	AV	150	0	PASS

Radiates Emission	Above 1GHz
Test channel	Lowest
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1350.535054	-8.37	53.74	45.37	74.00	28.63	PK	150	19	PASS
2548.654866	-4.74	54.33	49.59	74.00	24.41	PK	150	336	PASS
7134.1134	8.98	35.12	44.10	74.00	29.90	PK	150	80	PASS
1350.535054	-8.37	45.28	36.91	54.00	17.09	AV	150	6	PASS
2581.658166	-4.64	42.63	37.99	54.00	16.01	AV	150	1	PASS
7076.5076	8.97	25.10	34.07	54.00	19.93	AV	150	220	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1GHz
Test channel	Medium
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1575.557556	-7.80	52.96	45.16	74.00	28.84	PK	150	17	PASS
2565.156516	-4.70	54.54	49.84	74.00	24.16	PK	150	276	PASS
7099.3099	8.97	35.57	44.54	74.00	29.46	PK	150	120	PASS
1600.060006	-7.72	41.22	33.50	54.00	20.50	AV	150	359	PASS
2565.656566	-4.69	42.58	37.89	54.00	16.11	AV	150	360	PASS
7129.3129	8.98	25.12	34.10	54.00	19.90	AV	150	10	PASS

Radiates Emission	Above 1GHz
Test channel	Medium
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
2104.110411	-6.08	54.39	48.31	74.00	25.69	PK	150	294	PASS
3203.220322	-2.32	50.41	48.09	74.00	25.91	PK	150	314	PASS
11257.7257	12.42	34.23	46.65	74.00	27.35	PK	150	250	PASS
2074.607461	-6.16	43.34	37.18	54.00	16.82	AV	150	1	PASS
3513.251325	-1.03	39.36	38.33	54.00	15.67	AV	150	1	PASS
11208.5208	12.58	23.61	36.19	54.00	17.81	AV	150	224	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1GHz
Test channel	Highest
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1296.529653	-8.53	52.98	44.45	74.00	29.55	PK	150	38	PASS
2086.108611	-6.12	54.12	48.00	74.00	26.00	PK	150	271	PASS
9410.7410	11.94	33.55	45.49	74.00	28.51	PK	150	240	PASS
1296.529653	-8.53	41.98	33.45	54.00	20.55	AV	150	136	PASS
2092.609261	-6.11	42.83	36.72	54.00	17.28	AV	150	1	PASS
10219.6219	12.63	22.93	35.56	54.00	18.44	AV	150	10	PASS

Radiates Emission	Above 1GHz
Test channel	Highest
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1631.563156	-7.63	53.75	46.12	74.00	27.88	PK	150	0	PASS
2578.657866	-4.65	54.35	49.70	74.00	24.30	PK	150	23	PASS
7770.1770	9.21	35.70	44.91	74.00	29.09	PK	150	140	PASS
1621.562156	-7.65	43.99	36.34	54.00	17.66	AV	150	354	PASS
2573.157316	-4.67	42.99	38.32	54.00	15.68	AV	150	359	PASS
7776.1776	9.21	25.11	34.32	54.00	19.68	AV	150	110	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.1.2.3 U-NII-3:

Radiates Emission	Above 1GHz
Test channel	Lowest
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
2094.109411	-6.10	54.58	48.48	74.00	25.52	PK	150	65	PASS
3187.718772	-2.38	49.88	47.50	74.00	26.50	PK	150	71	PASS
7624.9624	9.11	35.10	44.21	74.00	29.79	PK	150	290	PASS
2212.621262	-5.78	42.03	36.25	54.00	17.75	AV	150	359	PASS
3073.207321	-2.83	37.77	34.94	54.00	19.06	AV	150	354	PASS
7728.172817	9.18	25.53	34.71	54.00	19.29	AV	150	210	PASS

Radiates Emission	Above 1GHz
Test channel	Lowest
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1349.534954	-8.38	54.23	45.85	74.00	28.15	PK	150	20	PASS
2576.157616	-4.66	54.46	49.80	74.00	24.20	PK	150	293	PASS
9444.3444	12.09	33.43	45.52	74.00	28.48	PK	150	23	PASS
1350.535054	-8.37	45.22	36.85	54.00	17.15	AV	150	6	PASS
2589.158916	-4.61	42.70	38.09	54.00	15.91	AV	150	1	PASS
9506.7506	12.34	22.88	35.22	54.00	18.78	AV	150	359	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1GHz
Test channel	Medium
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
2072.607261	-6.17	55.33	49.16	74.00	24.84	PK	150	355	PASS
2589.658966	-4.61	54.51	49.90	74.00	24.10	PK	150	143	PASS
9173.1173	10.98	33.85	44.83	74.00	29.17	PK	150	71	PASS
2071.607161	-6.17	42.82	36.65	54.00	17.35	AV	150	1	PASS
2574.657466	-4.66	42.40	37.74	54.00	16.26	AV	150	1	PASS
8913.89138	10.29	24.13	34.42	54.00	19.58	AV	150	354	PASS

Radiates Emission	Above 1GHz
Test channel	Medium
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1050.005001	-9.11	54.24	45.13	74.00	28.87	PK	150	329	PASS
2074.107411	-6.16	54.90	48.74	74.00	25.26	PK	150	46	PASS
9822.3822	12.39	33.38	45.77	74.00	28.23	PK	150	50	PASS
1050.505051	-9.11	48.62	39.51	54.00	14.49	AV	150	329	PASS
2099.609961	-6.09	43.06	36.97	54.00	17.03	AV	150	359	PASS
9930.3930	12.38	22.83	35.21	54.00	18.79	AV	150	50	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

Radiates Emission	Above 1GHz
Test channel	Highest
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1049.504951	-9.11	54.48	45.37	74.00	28.63	PK	150	347	PASS
2087.108711	-6.12	54.73	48.61	74.00	25.39	PK	150	6	PASS
7015.3015	8.95	35.28	44.23	74.00	29.77	PK	150	280	PASS
1050.505051	-9.11	48.55	39.44	54.00	14.56	AV	150	60	PASS
2074.607461	-6.16	43.14	36.98	54.00	17.02	AV	150	50	PASS
7012.90129	8.95	24.79	33.74	54.00	20.26	AV	150	110	PASS

Radiates Emission	Above 1GHz
Test channel	Highest
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/Fail
1643.564356	-7.59	54.43	46.84	74.00	27.16	PK	150	0	PASS
2565.656566	-4.69	53.78	49.09	74.00	24.91	PK	150	198	PASS
7742.5742	9.19	36.95	46.14	74.00	27.86	PK	150	120	PASS
1631.563156	-7.63	43.92	36.29	54.00	17.71	AV	150	354	PASS
2573.157316	-4.67	42.75	38.08	54.00	15.92	AV	150	354	PASS
7851.7851	9.24	24.96	34.20	54.00	19.80	AV	150	46	PASS

Note: The emission levels of other frequencies were greater than 20dB margin.

5.2.2 Band edge measurements (Radiates):

Test Results:

U-NII-1: 5150-5250MHz:

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas. 802.11ac20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode	802.11ac20
Test channel	Lowest channel
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5095.4095	1.77	46.66	48.43	74.00	25.57	PK	150	10	PASS
5139.4139	1.90	57.09	58.99	74.00	15.01	PK	150	0	PASS
5150.4150	1.93	60.07	62.00	74.00	12.00	PK	150	43	PASS
5095.4095	1.77	33.85	35.62	54.00	18.38	AV	150	335	PASS
5139.4139	1.90	39.12	41.02	54.00	12.98	AV	150	350	PASS
5150.4150	1.93	44.83	46.76	54.00	7.24	AV	150	39	PASS

Test mode	802.11ac20
Test channel	Lowest channel
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5127.4127	1.86	51.55	53.41	74.00	20.59	PK	150	359	PASS
5138.9138	1.89	59.90	61.79	74.00	12.21	PK	150	220	PASS
5150.4150	1.93	62.85	64.78	74.00	9.22	PK	150	30	PASS
5127.4127	1.86	38.80	40.66	54.00	13.34	AV	150	345	PASS
5139.4139	1.90	42.65	44.55	54.00	9.45	AV	150	359	PASS
5150.4150	1.93	46.05	47.98	54.00	6.02	AV	150	340	PASS

Test mode	802.11ac20
Test channel	Highest channel
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5350.4350	2.69	42.36	45.05	74.00	28.95	PK	150	40	PASS
5435.4435	2.91	43.77	46.68	74.00	27.32	PK	150	130	PASS
5604.4604	3.51	45.44	48.95	74.00	25.05	PK	150	90	PASS
5350.4350	2.69	32.72	35.41	54.00	18.59	AV	150	210	PASS
5435.4435	2.91	32.66	35.57	54.00	18.43	AV	150	60	PASS
5604.4604	3.51	32.90	36.41	54.00	17.59	AV	150	40	PASS

Test mode	802.11ac20
Test channel	Highest channel
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5350.4350	2.69	43.12	45.81	74.00	28.19	PK	150	240	PASS
5444.4444	2.93	45.15	48.08	74.00	25.92	PK	150	330	PASS
5508.4508	3.09	45.14	48.23	74.00	25.77	PK	150	340	PASS
5350.4350	2.69	33.12	35.81	54.00	18.19	AV	150	30	PASS
5444.4444	2.93	32.67	35.60	54.00	18.40	AV	150	300	PASS
5508.4508	3.09	32.84	35.93	54.00	18.07	AV	150	90	PASS

U-NII-1: 5470-5725MHz:

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas. 802.11ac20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode	802.11ac20
Test channel	Lowest channel
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5464.4464	2.67	60.23	62.90	74.00	11.10	PK	150	59	PASS
5468.9468	2.69	63.90	66.59	74.00	7.41	PK	150	65	PASS
5470.4470	2.69	61.76	64.45	74.00	9.55	PK	150	347	PASS
5464.4464	2.67	42.56	45.23	54.00	8.77	AV	150	19	PASS
5468.9468	2.69	43.84	46.53	54.00	7.47	AV	150	6	PASS
5470.4470	2.69	44.98	47.67	54.00	6.33	AV	150	1	PASS

Test mode	802.11ac20
Test channel	Lowest channel
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5458.9458	2.66	59.93	62.59	74.00	11.41	PK	150	38	PASS
5466.4466	2.67	64.41	67.08	74.00	6.92	PK	150	341	PASS
5470.4470	2.69	63.10	65.79	74.00	8.21	PK	150	51	PASS
5458.9458	2.66	42.06	44.72	54.00	9.28	AV	150	328	PASS
5466.4466	2.67	46.96	49.63	54.00	4.37	AV	150	334	PASS
5470.4470	2.69	48.14	50.83	54.00	3.17	AV	150	80	PASS

Test mode	802.11ac20
Test channel	Highest channel
polarization	Horizontal

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5725.4725	3.77	60.14	63.91	74.00	10.09	PK	150	76	PASS
5735.9735	3.81	56.09	59.90	74.00	14.10	PK	150	56	PASS
5755.4755	3.91	46.90	50.81	74.00	23.19	PK	150	63	PASS
5725.4725	3.77	40.62	44.39	54.00	9.61	AV	150	0	PASS
5735.9735	3.81	35.20	39.01	54.00	14.99	AV	150	4	PASS
5755.4755	3.91	32.70	36.61	54.00	17.39	AV	150	348	PASS

Test mode	802.11ac20
Test channel	Highest channel
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5725.4725	3.77	58.38	62.15	74.00	11.85	PK	150	342	PASS
5727.4727	3.78	61.37	65.15	74.00	8.85	PK	150	200	PASS
5756.9756	3.91	49.03	52.94	74.00	21.06	PK	150	180	PASS
5725.4725	3.77	45.97	49.74	54.00	4.26	AV	150	220	PASS
5727.4727	3.78	44.05	47.83	54.00	6.17	AV	150	210	PASS
5756.9756	3.91	35.40	39.31	54.00	14.69	AV	150	200	PASS

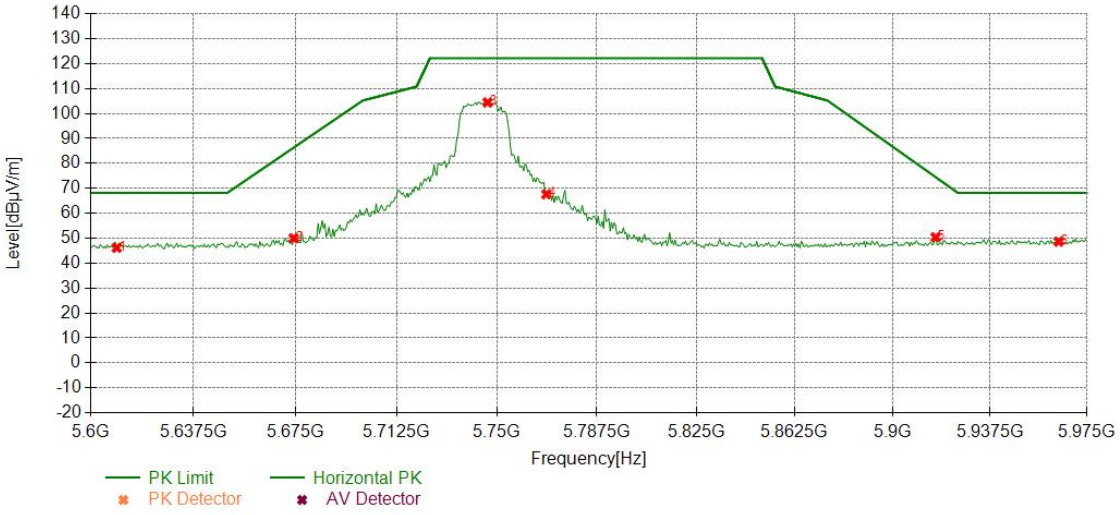
U-NII-3 5725-5850MHz：

During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas. 802.11ac20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test mode	802.11ac20
Test channel	Lowest channel
polarization	Horizontal

Suspected List

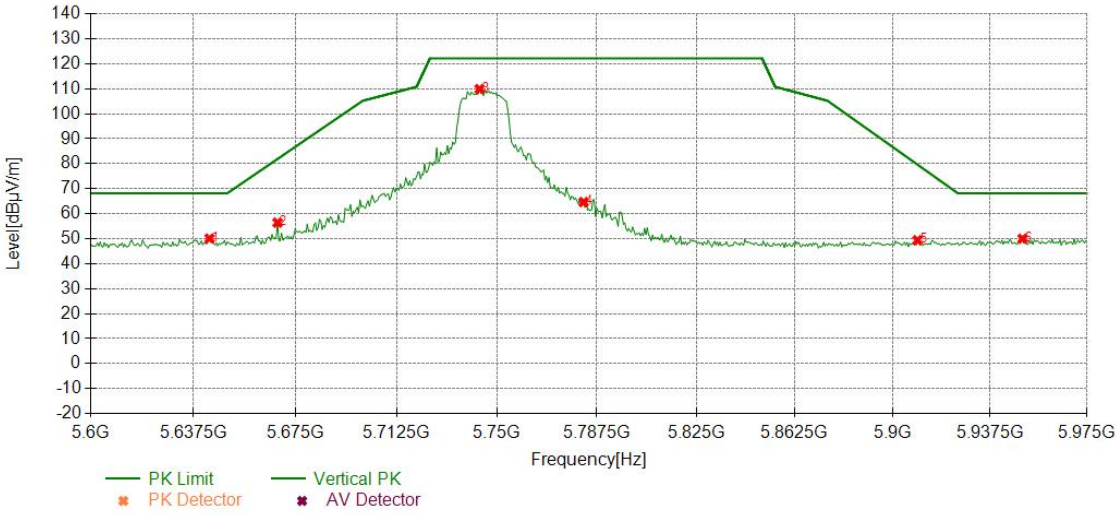
Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5609.4609	3.23	42.95	46.18	68.20	22.02	PK	150	69	PASS
5674.4674	3.53	46.48	50.01	86.35	36.34	PK	150	56	PASS
5746.4746	3.86	100.57	104.43	122.20	17.77	PK	150	69	PASS
5768.4768	3.97	63.65	67.62	122.20	54.58	PK	150	3	PASS
5916.4916	4.60	45.81	50.41	74.47	24.06	PK	150	213	PASS
5963.9964	4.81	43.83	48.64	68.20	19.56	PK	150	315	PASS



Test mode	802.11ac20
Test channel	Lowest channel
polarization	Vertical

Suspected List

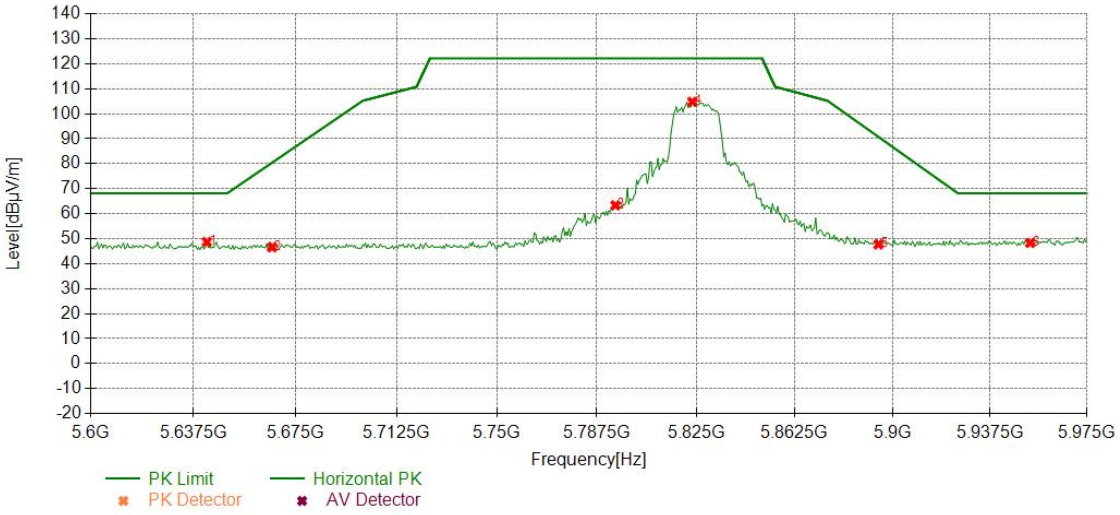
Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5643.4643	3.39	46.69	50.08	68.20	18.12	PK	150	1	PASS
5668.4668	3.51	52.93	56.44	81.90	25.46	PK	150	52	PASS
5743.4743	3.85	106.04	109.89	122.20	12.31	PK	150	6	PASS
5782.4782	4.03	60.63	64.66	122.20	57.54	PK	150	353	PASS
5909.4909	4.57	44.82	49.39	79.64	30.25	PK	150	52	PASS
5949.9950	4.75	45.23	49.98	68.20	18.22	PK	150	6	PASS



Test mode	802.11ac20
Test channel	Highest channel
polarization	Horizontal

Suspected List

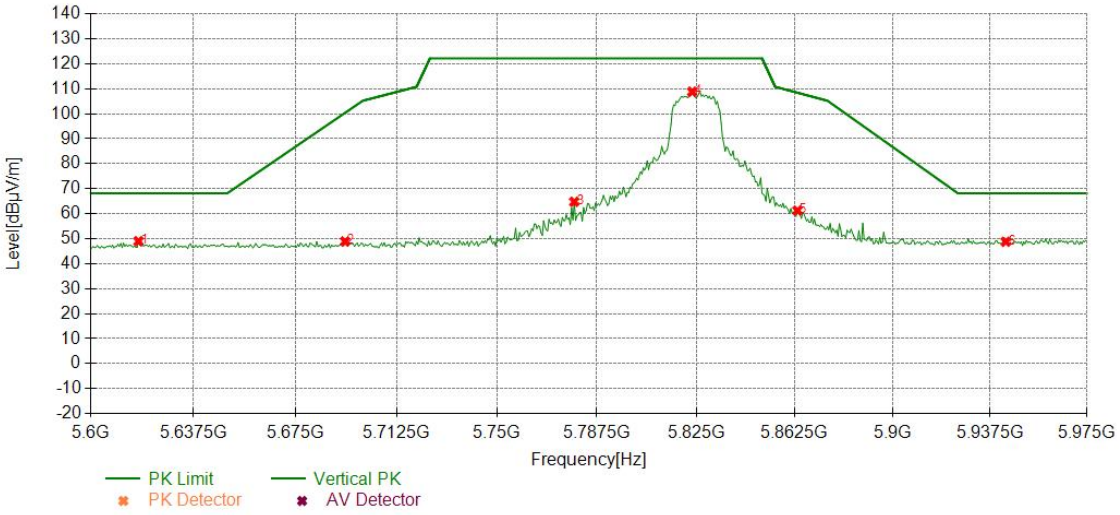
Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5642.4642	3.39	45.32	48.71	68.20	19.49	PK	150	299	PASS
5666.4666	3.50	43.08	46.58	80.42	33.84	PK	150	271	PASS
5794.4794	4.08	59.27	63.35	122.20	58.85	PK	150	66	PASS
5823.4823	4.21	100.56	104.77	122.20	17.43	PK	150	66	PASS
5894.4894	4.51	43.21	47.72	90.74	43.02	PK	150	66	PASS
5952.9953	4.76	43.56	48.32	68.20	19.88	PK	150	6	PASS



Test mode	802.11ac20
Test channel	Highest channel
polarization	Vertical

Suspected List

Frequency [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Height [cm]	Angle deg	Pass/ Fail
5617.4617	3.28	45.71	48.99	68.20	19.21	PK	150	0	PASS
5693.4693	3.62	45.29	48.91	100.39	51.48	PK	150	347	PASS
5778.9778	4.01	60.76	64.77	122.20	57.43	PK	150	320	PASS
5823.4823	4.21	104.60	108.81	122.20	13.39	PK	150	354	PASS
5863.4863	4.38	56.89	61.27	108.42	47.15	PK	150	13	PASS
5943.4943	4.72	44.06	48.78	68.20	19.42	PK	150	19	PASS



5.3 Maximum conducted output power

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

During the process of the testing, The EUT was connected to spectrum analyzer through an external attenuator and a known loss cable. The EUT is max power transmission with proper modulation. Use the Peak detector.

The conducted Power is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 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.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 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.

For the band 5.725-5.85 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.

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Limit(dBm)
	Antenna 1	Antenna 2		
5150-5250	3.1	3.1	6.11	23.87
5250-5350	/	/	/	23.87 or 11 + 10 log B*-(Directional gain-6)
5470-5725	3.1	3.1	6.11	
5725-5825	3.1	3.1	6.11	29.89

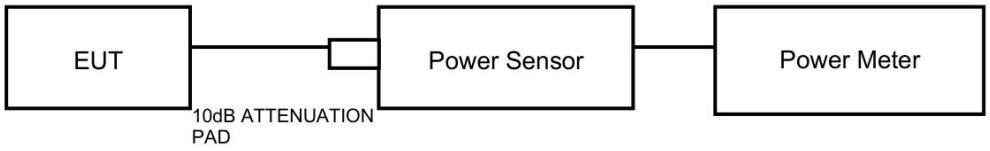
Note：B is the 26 dB emission bandwidth in megahertz.

Directional gain is to be computed as follows:

transmit signals are correlated, then

Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} +... + 10^{GN/20})^2$ /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.

Test Setup:



Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.44 dB.

Test Results:

Test Mode	Antenna	Channel	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.37	≤23.87	PASS
	Ant2	5180	13.45	≤23.87	PASS
	Ant1	5220	13.77	≤23.87	PASS
	Ant2	5220	14.33	≤23.87	PASS
	Ant1	5240	14.43	≤23.87	PASS
	Ant2	5240	14.39	≤23.87	PASS
	Ant1	5500	12.30	≤23.87	PASS
	Ant2	5500	11.13	≤23.86	PASS

	Ant1	5580	13.67	≤23.85	PASS
	Ant2	5580	11.94	≤23.87	PASS
	Ant1	5700	14.25	≤23.87	PASS
	Ant2	5700	11.73	≤23.87	PASS
	Ant1	5745	14.03	≤29.89	PASS
	Ant2	5745	11.57	≤29.89	PASS
	Ant1	5785	14.24	≤29.89	PASS
	Ant2	5785	12.21	≤29.89	PASS
	Ant1	5825	14.07	≤29.89	PASS
	Ant2	5825	12.81	≤29.89	PASS
11N20MIMO	Ant1	5180	11.73	≤23.87	PASS
	Ant2	5180	11.97	≤23.87	PASS
	total	5180	14.86	≤23.87	PASS
	Ant1	5220	12.22	≤23.87	PASS
	Ant2	5220	12.93	≤23.87	PASS
	total	5220	15.60	≤23.87	PASS
	Ant1	5240	13.02	≤23.87	PASS
	Ant2	5240	13.26	≤23.87	PASS
	total	5240	16.15	≤23.87	PASS
	Ant1	5500	10.95	≤23.87	PASS
	Ant2	5500	9.40	≤23.87	PASS
	total	5500	13.25	≤23.87	PASS
	Ant1	5580	12.23	≤23.87	PASS
	Ant2	5580	10.55	≤23.87	PASS
	total	5580	14.48	≤23.87	PASS
	Ant1	5700	12.83	≤23.87	PASS
	Ant2	5700	10.55	≤23.87	PASS
	total	5700	14.85	≤23.87	PASS
	Ant1	5745	12.65	≤29.89	PASS
	Ant2	5745	10.28	≤29.89	PASS
	total	5745	14.64	≤29.89	PASS
	Ant1	5785	12.80	≤29.89	PASS
	Ant2	5785	10.90	≤29.89	PASS
	total	5785	14.96	≤29.89	PASS
	Ant1	5825	12.69	≤29.89	PASS
	Ant2	5825	11.54	≤29.89	PASS
	total	5825	15.16	≤29.89	PASS
11N40MIMO	Ant1	5190	12.21	≤23.87	PASS
	Ant2	5190	12.76	≤23.87	PASS
	total	5190	15.50	≤23.87	PASS
	Ant1	5230	12.76	≤23.87	PASS
	Ant2	5230	13.54	≤23.87	PASS
	total	5230	16.18	≤23.87	PASS
	Ant1	5510	11.15	≤23.87	PASS
	Ant2	5510	9.91	≤23.87	PASS
	total	5510	13.58	≤23.87	PASS
	Ant1	5550	11.79	≤23.87	PASS
	Ant2	5550	11.75	≤23.87	PASS
	total	5550	14.78	≤23.87	PASS
	Ant1	5670	12.64	≤23.87	PASS
	Ant2	5670	10.25	≤23.87	PASS
	total	5670	14.62	≤23.87	PASS
	Ant1	5755	12.89	≤29.89	PASS
	Ant2	5755	10.70	≤29.89	PASS
	total	5755	14.94	≤29.89	PASS
	Ant1	5795	13.03	≤29.89	PASS
	Ant2	5795	11.48	≤29.89	PASS
	total	5795	15.33	≤29.89	PASS
11AC20MIMO	Ant1	5180	10.22	≤23.87	PASS
	Ant2	5180	10.33	≤23.87	PASS
	total	5180	13.29	≤23.87	PASS
	Ant1	5220	10.22	≤23.87	PASS
	Ant2	5220	10.70	≤23.87	PASS
	total	5220	13.48	≤23.87	PASS

	Ant1	5240	11.30	≤23.87	PASS
	Ant2	5240	10.88	≤23.87	PASS
	total	5240	14.11	≤23.87	PASS
	Ant1	5500	8.75	≤23.87	PASS
	Ant2	5500	8.52	≤23.87	PASS
	total	5500	11.65	≤23.87	PASS
	Ant1	5580	10.03	≤23.87	PASS
	Ant2	5580	10.10	≤23.87	PASS
	total	5580	13.08	≤23.87	PASS
	Ant1	5700	10.80	≤23.87	PASS
	Ant2	5700	8.87	≤23.87	PASS
	total	5700	12.95	≤23.87	PASS
	Ant1	5745	10.66	≤29.89	PASS
	Ant2	5745	8.73	≤29.89	PASS
	total	5745	12.81	≤29.89	PASS
	Ant1	5785	10.65	≤29.89	PASS
	Ant2	5785	9.27	≤29.89	PASS
	total	5785	13.02	≤29.89	PASS
	Ant1	5825	10.62	≤29.89	PASS
	Ant2	5825	10.93	≤29.89	PASS
	total	5825	13.79	≤29.89	PASS
11AC40MIMO	Ant1	5190	10.59	≤23.87	PASS
	Ant2	5190	10.92	≤23.87	PASS
	total	5190	13.77	≤23.87	PASS
	Ant1	5230	10.90	≤23.87	PASS
	Ant2	5230	11.05	≤23.87	PASS
	total	5230	13.99	≤23.87	PASS
	Ant1	5510	9.31	≤23.87	PASS
	Ant2	5510	8.36	≤23.87	PASS
	total	5510	11.87	≤23.87	PASS
	Ant1	5550	10.99	≤23.87	PASS
	Ant2	5550	9.74	≤23.87	PASS
	total	5550	13.42	≤23.87	PASS
	Ant1	5670	11.15	≤23.87	PASS
	Ant2	5670	9.95	≤23.87	PASS
	total	5670	13.60	≤23.87	PASS
	Ant1	5755	11.22	≤29.89	PASS
	Ant2	5755	9.26	≤29.89	PASS
	total	5755	13.36	≤29.89	PASS
	Ant1	5795	11.35	≤29.89	PASS
	Ant2	5795	10.76	≤29.89	PASS
	total	5795	14.08	≤29.89	PASS
11AC80MIMO	Ant1	5210	10.55	≤23.87	PASS
	Ant2	5210	11.28	≤23.87	PASS
	total	5210	13.94	≤23.87	PASS
	Ant1	5530	10.21	≤23.87	PASS
	Ant2	5530	9.95	≤23.87	PASS
	total	5530	13.09	≤23.87	PASS
	Ant1	5610	10.28	≤23.87	PASS
	Ant2	5610	10.97	≤23.87	PASS
	total	5610	13.65	≤23.87	PASS
	Ant1	5775	11.56	≤29.89	PASS
	Ant2	5775	10.88	≤29.89	PASS
	total	5775	14.24	≤29.89	PASS

Note:The duty cycle facotr have been included.

5.4 Min Emission Bandwidth and Emission Bandwidth and Occupied Bandwidth

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

For U-NII-1, set RBW ≈1% OCB kHz, VBW ≥ 3 × RBW, 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 26 dB relative to the maximum level measured in the fundamental emission.

For U-NII-3, Set RBW = 100 kHz, VBW ≥ 3 × RBW, 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.

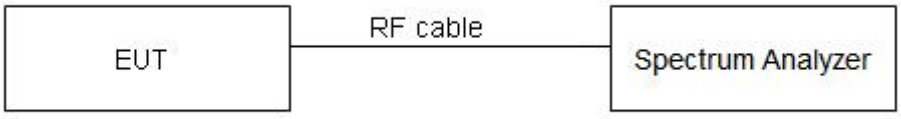
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

Use the 99 % power bandwidth function of the instrument.

Limits:

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Setup:



Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

Test Results: Min emission bandwidth

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.52	5737.12	5751.64	≥0.5	PASS
	Ant2	5745	15.88	5737.28	5753.16	≥0.5	PASS
	Ant1	5785	16.32	5776.84	5793.16	≥0.5	PASS
	Ant2	5785	15.68	5777.52	5793.20	≥0.5	PASS
	Ant1	5825	16.00	5817.12	5833.12	≥0.5	PASS
	Ant2	5825	15.72	5817.44	5833.16	≥0.5	PASS
11N20MIMO	Ant1	5745	16.48	5736.84	5753.32	≥0.5	PASS
	Ant2	5745	17.28	5736.52	5753.80	≥0.5	PASS
	Ant1	5785	14.92	5778.48	5793.40	≥0.5	PASS
	Ant2	5785	17.24	5776.56	5793.80	≥0.5	PASS
	Ant1	5825	13.04	5818.52	5831.56	≥0.5	PASS
	Ant2	5825	16.92	5816.60	5833.52	≥0.5	PASS
11N40MIMO	Ant1	5755	33.20	5738.68	5771.88	≥0.5	PASS
	Ant2	5755	35.84	5737.32	5773.16	≥0.5	PASS
	Ant1	5795	34.40	5778.20	5812.60	≥0.5	PASS
	Ant2	5795	35.60	5777.24	5812.84	≥0.5	PASS
11AC20MIMO	Ant1	5745	15.72	5737.44	5753.16	≥0.5	PASS
	Ant2	5745	15.08	5737.48	5752.56	≥0.5	PASS
	Ant1	5785	15.72	5776.84	5792.56	≥0.5	PASS
	Ant2	5785	15.12	5777.44	5792.56	≥0.5	PASS
	Ant1	5825	15.72	5816.84	5832.56	≥0.5	PASS
	Ant2	5825	15.00	5817.52	5832.52	≥0.5	PASS
11AC40MIMO	Ant1	5755	35.04	5737.48	5772.52	≥0.5	PASS
	Ant2	5755	35.12	5737.48	5772.60	≥0.5	PASS
	Ant1	5795	35.20	5777.40	5812.60	≥0.5	PASS
	Ant2	5795	35.12	5777.48	5812.60	≥0.5	PASS
11AC80MIMO	Ant1	5610	75.20	5572.40	5647.60	≥0.5	PASS
	Ant2	5610	70.08	5572.40	5642.48	≥0.5	PASS
	Ant1	5775	75.20	5737.40	5812.60	≥0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	≥0.5	PASS

Test Results: Emission Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	20.56	5489.68	5510.24	---	---
	Ant2	5500	20.44	5489.80	5510.24	---	---
	Ant1	5580	20.56	5569.72	5590.28	---	---
	Ant2	5580	20.60	5569.64	5590.24	---	---
	Ant1	5700	20.56	5689.72	5710.28	---	---
	Ant2	5700	20.56	5689.68	5710.24	---	---
11N20MIMO	Ant1	5500	20.88	5489.52	5510.40	---	---
	Ant2	5500	20.72	5489.64	5510.36	---	---
	Ant1	5580	20.80	5569.60	5590.40	---	---
	Ant2	5580	20.48	5569.72	5590.20	---	---
	Ant1	5700	20.96	5689.48	5710.44	---	---
	Ant2	5700	20.64	5689.68	5710.32	---	---
11N40MIMO	Ant1	5510	41.92	5489.12	5531.04	---	---
	Ant2	5510	41.68	5489.36	5531.04	---	---
	Ant1	5550	41.68	5529.12	5570.80	---	---
	Ant2	5550	41.36	5529.28	5570.64	---	---
	Ant1	5670	41.60	5649.20	5690.80	---	---
	Ant2	5670	41.76	5648.96	5690.72	---	---
11AC20MIMO	Ant1	5500	20.88	5489.52	5510.40	---	---
	Ant2	5500	20.40	5489.76	5510.16	---	---
	Ant1	5580	20.88	5569.56	5590.44	---	---
	Ant2	5580	20.44	5569.76	5590.20	---	---
	Ant1	5700	20.92	5689.52	5710.44	---	---
	Ant2	5700	20.56	5689.72	5710.28	---	---
11AC40MIMO	Ant1	5510	41.76	5489.12	5530.88	---	---
	Ant2	5510	41.60	5489.20	5530.80	---	---
	Ant1	5550	41.60	5529.12	5570.72	---	---
	Ant2	5550	41.84	5529.20	5571.04	---	---
	Ant1	5670	41.60	5649.28	5690.88	---	---
	Ant2	5670	41.36	5649.20	5690.56	---	---
11AC80MIMO	Ant1	5530	82.24	5488.88	5571.12	---	---
	Ant2	5530	81.60	5489.20	5570.80	---	---
	Ant1	5610	82.24	5568.72	5650.96	---	---
	Ant2	5610	82.24	5568.88	5651.12	---	---

Test Results: Occupied channel bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.743	5171.6084	5188.3516	---	---
	Ant2	5180	16.863	5171.6084	5188.4715	---	---
	Ant1	5220	16.783	5211.6084	5228.3916	---	---
	Ant2	5220	16.783	5211.6484	5228.4316	---	---
	Ant1	5240	16.823	5231.5684	5248.3916	---	---
	Ant2	5240	16.783	5231.6484	5248.4316	---	---
	Ant1	5500	16.863	5491.5285	5508.3916	---	---
	Ant2	5500	16.823	5491.6084	5508.4316	---	---
	Ant1	5580	16.823	5571.6084	5588.4316	---	---
	Ant2	5580	16.863	5571.5285	5588.3916	---	---
	Ant1	5700	16.783	5691.6084	5708.3916	---	---
	Ant2	5700	16.823	5691.5684	5708.3916	---	---
	Ant1	5745	16.863	5736.5684	5753.4316	---	---
	Ant2	5745	16.863	5736.5285	5753.3916	---	---
	Ant1	5785	16.823	5776.5684	5793.3916	---	---
	Ant2	5785	16.943	5776.5684	5793.5115	---	---
	Ant1	5825	16.863	5816.5684	5833.4316	---	---
	Ant2	5825	16.863	5816.5684	5833.4316	---	---
11N20MIMO	Ant1	5180	17.742	5171.0889	5188.8312	---	---
	Ant2	5180	17.782	5171.0889	5188.8711	---	---
	Ant1	5220	17.742	5211.1289	5228.8711	---	---
	Ant2	5220	17.742	5211.1688	5228.9111	---	---
	Ant1	5240	17.702	5231.1688	5248.8711	---	---
	Ant2	5240	17.822	5231.1289	5248.9510	---	---
	Ant1	5500	17.742	5491.1289	5508.8711	---	---
	Ant2	5500	17.862	5491.0490	5508.9111	---	---
	Ant1	5580	17.782	5571.1289	5588.9111	---	---
	Ant2	5580	17.822	5571.0490	5588.8711	---	---
	Ant1	5700	17.742	5691.1688	5708.9111	---	---
	Ant2	5700	17.822	5691.0889	5708.9111	---	---
	Ant1	5745	17.742	5736.1289	5753.8711	---	---
	Ant2	5745	17.822	5736.0889	5753.9111	---	---
	Ant1	5785	17.742	5776.1289	5793.8711	---	---
	Ant2	5785	17.822	5776.1289	5793.9510	---	---
	Ant1	5825	17.742	5816.1289	5833.8711	---	---
	Ant2	5825	17.862	5816.0889	5833.9510	---	---
11N40MIMO	Ant1	5190	36.124	5171.9381	5208.0619	---	---
	Ant2	5190	36.124	5171.9381	5208.0619	---	---
	Ant1	5230	36.124	5211.9381	5248.0619	---	---
	Ant2	5230	36.044	5212.0180	5248.0619	---	---
	Ant1	5510	36.124	5491.9381	5528.0619	---	---
	Ant2	5510	36.204	5491.9381	5528.1419	---	---
	Ant1	5550	36.124	5531.9381	5568.0619	---	---
	Ant2	5550	36.124	5531.9381	5568.0619	---	---
	Ant1	5670	36.124	5651.9381	5688.0619	---	---
	Ant2	5670	36.124	5652.0180	5688.1419	---	---
	Ant1	5755	36.124	5736.9381	5773.0619	---	---
	Ant2	5755	36.124	5736.9381	5773.0619	---	---
	Ant1	5795	36.124	5776.9381	5813.0619	---	---
	Ant2	5795	36.124	5777.0180	5813.1419	---	---
11AC20MIMO	Ant1	5180	17.702	5171.1289	5188.8312	---	---
	Ant2	5180	17.822	5171.0889	5188.9111	---	---
	Ant1	5220	17.742	5211.1289	5228.8711	---	---
	Ant2	5220	17.862	5211.0889	5228.9510	---	---
	Ant1	5240	17.742	5231.1289	5248.8711	---	---
	Ant2	5240	17.742	5231.1688	5248.9111	---	---
	Ant1	5500	17.742	5491.1289	5508.8711	---	---
	Ant2	5500	17.862	5491.0490	5508.9111	---	---
	Ant1	5580	17.742	5571.1289	5588.8711	---	---
	Ant2	5580	17.782	5571.0889	5588.8711	---	---

	Ant1	5700	17.782	5691.0889	5708.8711	---	---
	Ant2	5700	17.782	5691.1688	5708.9510	---	---
	Ant1	5745	17.742	5736.1688	5753.9111	---	---
	Ant2	5745	17.822	5736.0889	5753.9111	---	---
	Ant1	5785	17.742	5776.1289	5793.8711	---	---
	Ant2	5785	17.822	5776.1289	5793.9510	---	---
	Ant1	5825	17.702	5816.1289	5833.8312	---	---
	Ant2	5825	17.782	5816.1289	5833.9111	---	---
11AC40MIMO	Ant1	5190	36.204	5171.8581	5208.0619	---	---
	Ant2	5190	36.204	5171.9381	5208.1419	---	---
	Ant1	5230	36.204	5211.9381	5248.1419	---	---
	Ant2	5230	36.124	5212.0180	5248.1419	---	---
	Ant1	5510	36.124	5492.0180	5528.1419	---	---
	Ant2	5510	36.124	5491.9381	5528.0619	---	---
	Ant1	5550	36.124	5531.9381	5568.0619	---	---
	Ant2	5550	36.204	5531.9381	5568.1419	---	---
	Ant1	5670	36.124	5651.9381	5688.0619	---	---
	Ant2	5670	36.204	5651.9381	5688.1419	---	---
	Ant1	5755	36.124	5737.0180	5773.1419	---	---
	Ant2	5755	36.124	5736.9381	5773.0619	---	---
	Ant1	5795	36.204	5776.8581	5813.0619	---	---
	Ant2	5795	36.124	5777.0180	5813.1419	---	---
11AC80MIMO	Ant1	5210	75.604	5172.2777	5247.8821	---	---
	Ant2	5210	75.604	5172.2777	5247.8821	---	---
	Ant1	5530	75.285	5492.2777	5567.5624	---	---
	Ant2	5530	75.285	5492.4376	5567.7223	---	---
	Ant1	5610	75.445	5572.2777	5647.7223	---	---
	Ant2	5610	75.125	5572.1179	5647.2428	---	---
	Ant1	5775	75.125	5737.5974	5812.7223	---	---
	Ant2	5775	75.764	5737.2777	5813.0420	---	---

5.5 Maximum Power Spectral Density

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

The EUT was connected to the spectrum analyzer through an external attenuator (20dB) and a known loss cable.

Set RBW = 500 kHz, VBW =1.5MHz for the band 5.725-5.85 GHz

Set RBW = 1 MHz, VBW =3MHz for the band 5.150-5.250 GHz

The conducted PSD is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically.

Limits:

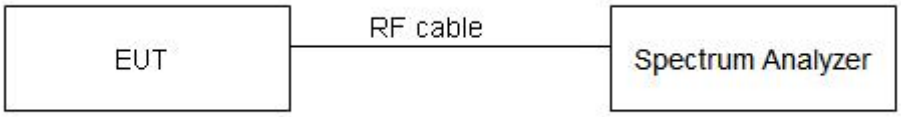
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting 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.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 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.

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 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.

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Limit
	Antenna 1	Antenna 2		
5150-5250	3.1	3.1	6.11	10.89dBm/MHz
5250-5350	/	/	/	10.89dBm/MHz
5470-5725	3.1	3.1	6.11	
5725-5825	3.1	3.1	6.11	29.89dBm/500kHz
Directional gain is to be computed as follows: transmit signals are correlated, then Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} +... + 10^{GN/20})^2$ /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.				

Test Setup:



Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 0.75dB.

Test Results:

TestMode	Antenna	Channel	Result [dBm/MHz]	Result with DC correction [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.86	2.98	≤10.89	PASS
	Ant2	5180	2.91	3.03	≤10.89	PASS
	Ant1	5220	3.16	3.28	≤10.89	PASS
	Ant2	5220	3.66	3.81	≤10.89	PASS
	Ant1	5240	3.83	3.95	≤10.89	PASS
	Ant2	5240	3.81	3.90	≤10.89	PASS
	Ant1	5500	1.66	1.78	≤10.89	PASS
	Ant2	5500	0.11	0.20	≤10.89	PASS
	Ant1	5580	3.10	3.19	≤10.89	PASS
	Ant2	5580	1.35	1.47	≤10.89	PASS
	Ant1	5700	3.64	3.76	≤10.89	PASS
	Ant2	5700	1.15	1.24	≤10.89	PASS
	Ant1	5745	0.55	0.67	≤29.89	PASS
	Ant2	5745	-1.85	-1.76	≤29.89	PASS
	Ant1	5785	0.88	1.00	≤29.89	PASS
	Ant2	5785	-1.25	-1.13	≤29.89	PASS
	Ant1	5825	0.67	0.79	≤29.89	PASS

	Ant2	5825	-0.66	-0.54	≤29.89	PASS
11N20MIMO	Ant1	5180	1.04	1.17	≤10.89	PASS
	Ant2	5180	1.22	1.32	≤10.89	PASS
	total	5180	4.14	4.26	≤10.89	PASS
	Ant1	5220	1.44	1.57	≤10.89	PASS
	Ant2	5220	2.12	2.25	≤10.89	PASS
	total	5220	4.80	4.94	≤10.89	PASS
	Ant1	5240	2.25	2.35	≤10.89	PASS
	Ant2	5240	2.43	2.60	≤10.89	PASS
	total	5240	5.35	5.48	≤10.89	PASS
	Ant1	5500	0.19	0.32	≤10.89	PASS
	Ant2	5500	-1.34	-1.24	≤10.89	PASS
	total	5500	2.50	2.62	≤10.89	PASS
	Ant1	5580	1.42	1.55	≤10.89	PASS
	Ant2	5580	-0.17	-0.07	≤10.89	PASS
	total	5580	3.71	3.83	≤10.89	PASS
	Ant1	5700	2.07	2.17	≤10.89	PASS
	Ant2	5700	-0.25	-0.12	≤10.89	PASS
	total	5700	4.07	4.19	≤10.89	PASS
	Ant1	5745	-1.04	-0.87	≤29.89	PASS
	Ant2	5745	-3.42	-3.29	≤29.89	PASS
	total	5745	0.94	1.09	≤29.89	PASS
	Ant1	5785	-0.73	-0.60	≤29.89	PASS
	Ant2	5785	-2.71	-2.58	≤29.89	PASS
	total	5785	1.40	1.53	≤29.89	PASS
	Ant1	5825	-0.89	-0.79	≤29.89	PASS
	Ant2	5825	-2.08	-1.95	≤29.89	PASS
	total	5825	1.57	1.68	≤29.89	PASS
11N40MIMO	Ant1	5190	-1.55	-1.29	≤10.89	PASS
	Ant2	5190	-1.03	-0.77	≤10.89	PASS
	total	5190	1.73	1.99	≤10.89	PASS
	Ant1	5230	-0.90	-0.64	≤10.89	PASS
	Ant2	5230	-0.30	-0.04	≤10.89	PASS
	total	5230	2.42	2.68	≤10.89	PASS
	Ant1	5510	-2.68	-2.42	≤10.89	PASS
	Ant2	5510	-3.86	-3.66	≤10.89	PASS
	total	5510	-0.22	0.01	≤10.89	PASS
	Ant1	5550	-2.02	-1.76	≤10.89	PASS
	Ant2	5550	-2.03	-1.77	≤10.89	PASS
	total	5550	0.99	1.24	≤10.89	PASS
	Ant1	5670	-1.15	-0.89	≤10.89	PASS
	Ant2	5670	-3.38	-3.18	≤10.89	PASS
	total	5670	0.89	1.12	≤10.89	PASS
	Ant1	5755	-3.68	-3.42	≤29.89	PASS
	Ant2	5755	-6.17	-5.91	≤29.89	PASS
	total	5755	-1.74	-1.48	≤29.89	PASS
	Ant1	5795	-3.61	-3.41	≤29.89	PASS
	Ant2	5795	-5.27	-5.01	≤29.89	PASS
	total	5795	-1.35	-1.13	≤29.89	PASS
11AC20MIMO	Ant1	5180	-0.50	-0.25	≤10.89	PASS
	Ant2	5180	-0.48	-0.23	≤10.89	PASS
	total	5180	2.52	2.77	≤10.89	PASS
	Ant1	5220	-0.57	-0.32	≤10.89	PASS
	Ant2	5220	-0.16	0.03	≤10.89	PASS
	total	5220	2.65	2.87	≤10.89	PASS
	Ant1	5240	0.54	0.79	≤10.89	PASS
	Ant2	5240	0.03	0.28	≤10.89	PASS
	total	5240	3.30	3.55	≤10.89	PASS
	Ant1	5500	-2.06	-1.87	≤10.89	PASS
	Ant2	5500	-2.53	-2.28	≤10.89	PASS
	total	5500	0.72	0.94	≤10.89	PASS
	Ant1	5580	-0.68	-0.49	≤10.89	PASS
	Ant2	5580	-0.58	-0.33	≤10.89	PASS
	total	5580	2.38	2.60	≤10.89	PASS

	Ant1	5700	-0.07	0.12	≤10.89	PASS
	Ant2	5700	-1.87	-1.68	≤10.89	PASS
	total	5700	2.13	2.32	≤10.89	PASS
	Ant1	5745	-2.99	-2.74	≤29.89	PASS
	Ant2	5745	-5.06	-4.81	≤29.89	PASS
	total	5745	-0.89	-0.64	≤29.89	PASS
	Ant1	5785	-2.97	-2.78	≤29.89	PASS
	Ant2	5785	-4.40	-4.21	≤29.89	PASS
	total	5785	-0.62	-0.43	≤29.89	PASS
	Ant1	5825	-2.99	-2.80	≤29.89	PASS
	Ant2	5825	-2.75	-2.50	≤29.89	PASS
	total	5825	0.14	0.36	≤29.89	PASS
11AC40MIMO	Ant1	5190	-3.39	-2.92	≤10.89	PASS
	Ant2	5190	-3.00	-2.53	≤10.89	PASS
	total	5190	-0.18	0.29	≤10.89	PASS
	Ant1	5230	-2.93	-2.46	≤10.89	PASS
	Ant2	5230	-2.71	-2.35	≤10.89	PASS
	total	5230	0.19	0.60	≤10.89	PASS
	Ant1	5510	-4.80	-4.33	≤10.89	PASS
	Ant2	5510	-5.41	-5.06	≤10.89	PASS
	total	5510	-2.08	-1.67	≤10.89	PASS
	Ant1	5550	-2.93	-2.46	≤10.89	PASS
	Ant2	5550	-4.17	-3.82	≤10.89	PASS
	total	5550	-0.50	-0.08	≤10.89	PASS
	Ant1	5670	-2.72	-2.25	≤10.89	PASS
	Ant2	5670	-3.94	-3.47	≤10.89	PASS
	total	5670	-0.28	0.19	≤10.89	PASS
	Ant1	5755	-5.48	-5.01	≤29.89	PASS
	Ant2	5755	-7.66	-7.19	≤29.89	PASS
	total	5755	-3.42	-2.95	≤29.89	PASS
	Ant1	5795	-5.42	-4.95	≤29.89	PASS
	Ant2	5795	-5.76	-5.29	≤29.89	PASS
	total	5795	-2.58	-2.11	≤29.89	PASS
11AC80MIMO	Ant1	5210	-6.50	-5.86	≤10.89	PASS
	Ant2	5210	-5.87	-5.04	≤10.89	PASS
	total	5210	-3.16	-2.42	≤10.89	PASS
	Ant1	5530	-6.56	-5.73	≤10.89	PASS
	Ant2	5530	-7.23	-6.40	≤10.89	PASS
	total	5530	-3.87	-3.04	≤10.89	PASS
	Ant1	5610	-6.60	-5.96	≤10.89	PASS
	Ant2	5610	-6.13	-5.26	≤10.89	PASS
	total	5610	-3.35	-2.59	≤10.89	PASS
	Ant1	5775	-7.80	-6.97	≤29.89	PASS
	Ant2	5775	-8.93	-8.06	≤29.89	PASS
	total	5775	-5.32	-4.47	≤29.89	PASS

Note:The duty cycle facotr have been included.

5.6 Frequency Stability

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

Method of Measurement:

1. Frequency stability with respect to ambient temperature

a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in 5.6.

b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.

e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.

f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

g) Measure the frequency at each of frequencies specified in 5.6.

h) Switch OFF the EUT but do not switch OFF the oscillator heater.

i) Lower the chamber temperature by not more that 10 C, and allow the temperature inside the chamber to stabilize.

j) Repeat step f) through step i) down to the lowest specified temperature.

2. Frequency stability when varying supply voltage

Unless otherwise specified, these tests shall be made at ambient room temperature (+15 C to +25 C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument.

b) Tune the EUT to one of the number of frequencies required in 5.6. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).

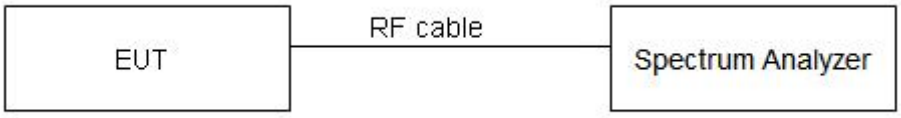
c) Measure the frequency at each of the frequencies specified in 5.6.

d) Repeat the above procedure at 85% and 115% of the nominal supply voltage.

Limits:

Manufacturers 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.

Test Setup:



Measurement Uncertainty：

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U= 936 Hz.

Test Results:

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	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	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5220	NV	NT	20000.00	3.831418	20	PASS
			LV	NT	20000.00	3.831418	20	PASS
			HV	NT	20000.00	3.831418	20	PASS
	Ant2	5220	NV	NT	20000.00	3.831418	20	PASS
			LV	NT	20000.00	3.831418	20	PASS
			HV	NT	20000.00	3.831418	20	PASS
	Ant1	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
	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	5260	NV	NT	20000.00	3.802281	20	PASS
			LV	NT	20000.00	3.802281	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5260	NV	NT	20000.00	3.802281	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5300	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.773585	20	PASS
			HV	NT	20000.00	3.773585	20	PASS
	Ant2	5300	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.773585	20	PASS
	Ant1	5320	NV	NT	20000.00	3.759398	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.759398	20	PASS
	Ant2	5320	NV	NT	20000.00	3.759398	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5500	NV	NT	20000.00	3.636364	20	PASS
			LV	NT	20000.00	3.636364	20	PASS
			HV	NT	40000.00	7.272727	20	PASS
	Ant2	5500	NV	NT	20000.00	3.636364	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5580	NV	NT	20000.00	3.584229	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	20000.00	3.584229	20	PASS
	Ant2	5580	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
	Ant1	5700	NV	NT	20000.00	3.508772	20	PASS
			LV	NT	-20000.00	-3.508772	20	PASS
			HV	NT	20000.00	3.508772	20	PASS
	Ant2	5700	NV	NT	20000.00	3.508772	20	PASS
			LV	NT	20000.00	3.508772	20	PASS
			HV	NT	20000.00	3.508772	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	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	20000.00	3.457217	20	PASS
			LV	NT	20000.00	3.457217	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	20000.00	3.433476	20	PASS
	Ant2	5825	NV	NT	20000.00	3.433476	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	40000.00	6.866953	20	PASS
11N20MIMO	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	20000.00	3.861004	20	PASS
	Ant1	5220	NV	NT	-20000.00	-3.831418	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.831418	20	PASS
	Ant2	5220	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.831418	20	PASS
	Ant1	5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	-40000.00	-7.633588	20	PASS
			HV	NT	-20000.00	-3.816794	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	5260	NV	NT	-20000.00	-3.802281	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.802281	20	PASS
	Ant2	5260	NV	NT	20000.00	3.802281	20	PASS
			LV	NT	20000.00	3.802281	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5300	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.547170	20	PASS
			HV	NT	20000.00	3.773585	20	PASS
	Ant2	5300	NV	NT	20000.00	3.773585	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5320	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.759398	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5320	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	5500	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.636364	20	PASS
			HV	NT	-20000.00	-3.636364	20	PASS
	Ant2	5500	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	5580	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.584229	20	PASS
			HV	NT	-20000.00	-3.584229	20	PASS
	Ant2	5580	NV	NT	-20000.00	-3.584229	20	PASS
			LV	NT	-20000.00	-3.584229	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5700	NV	NT	-20000.00	-3.508772	20	PASS
			LV	NT	0.00	0.000000	20	PASS

			HV	NT	20000.00	3.508772	20	PASS
	Ant2	5700	NV	NT	-20000.00	-3.508772	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.508772	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	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.481288	20	PASS
	Ant1	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
	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	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	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	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	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	-40000.00	-7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
	Ant1	5310	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	5310	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	5510	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	5510	NV	NT	40000.00	7.259528	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5550	NV	NT	-40000.00	-7.207207	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5550	NV	NT	40000.00	7.207207	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.207207	20	PASS
	Ant1	5670	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	5670	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	0.00	0.000000	20	PASS
			HV	NT	40000.00	6.902502	20	PASS
11AC20MIMO	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	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5220	NV	NT	-20000.00	-3.831418	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.831418	20	PASS
	Ant2	5220	NV	NT	20000.00	3.831418	20	PASS
			LV	NT	-20000.00	-3.831418	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	20000.00	3.816794	20	PASS
	Ant2	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
	Ant1	5260	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.802281	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5260	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.802281	20	PASS
	Ant1	5300	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	5300	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.773585	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5320	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	5320	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	5500	NV	NT	20000.00	3.636364	20	PASS
			LV	NT	-20000.00	-3.636364	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5500	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	5580	NV	NT	20000.00	3.584229	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5580	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	5700	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.508772	20	PASS
	Ant2	5700	NV	NT	0.00	0.000000	20	PASS

			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.508772	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	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	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	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	0.00	0.000000	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
11AC40MIMO	Ant1	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	40000.00	7.707129	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	40000.00	7.648184	20	PASS
			LV	NT	0.00	0.000000	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	0.00	0.000000	20	PASS
	Ant1	5270	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.590133	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5270	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	5310	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	5310	NV	NT	-40000.00	-7.532957	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5510	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.259528	20	PASS
			HV	NT	40000.00	7.259528	20	PASS
	Ant2	5510	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.259528	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5550	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	5550	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	5670	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	5670	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	40000.00	6.950478	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	40000.00	6.902502	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
11AC80MIMO	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	5290	NV	NT	-80000.00	-15.122873	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5290	NV	NT	-80000.00	-15.122873	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5530	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	5530	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	5610	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	5610	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	80000.00	13.852814	20	PASS
			HV	NT	80000.00	13.852814	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

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (℃)	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	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	40000.00	7.722008	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	0.00	0.000000	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

	Ant1	5220	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.831418	20	PASS
			NV	-10	20000.00	3.831418	20	PASS
			NV	0	20000.00	3.831418	20	PASS
			NV	10	20000.00	3.831418	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.831418	20	PASS
			NV	50	20000.00	3.831418	20	PASS
	Ant2	5220	NV	-30	20000.00	3.831418	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.831418	20	PASS
			NV	0	20000.00	3.831418	20	PASS
			NV	10	20000.00	3.831418	20	PASS
			NV	20	20000.00	3.831418	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.831418	20	PASS
	Ant1	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	0.00	0.000000	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	0.00	0.000000	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	0.00	0.000000	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	5260	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.802281	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.802281	20	PASS
			NV	10	20000.00	3.802281	20	PASS
			NV	20	20000.00	3.802281	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.802281	20	PASS
	Ant2	5260	NV	-30	20000.00	3.802281	20	PASS
			NV	-20	20000.00	3.802281	20	PASS
			NV	-10	20000.00	3.802281	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	40000.00	7.604563	20	PASS
			NV	20	20000.00	3.802281	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	5300	NV	-30	20000.00	3.773585	20	PASS
			NV	-20	20000.00	3.773585	20	PASS
			NV	-10	20000.00	3.773585	20	PASS
			NV	0	20000.00	3.773585	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	5300	NV	-30	20000.00	3.773585	20	PASS

			NV	-20	20000.00	3.773585	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	3.773585	20	PASS
			NV	40	20000.00	3.773585	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5320	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.759398	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.759398	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	20000.00	3.759398	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	20000.00	3.759398	20	PASS
			NV	50	20000.00	3.759398	20	PASS
	Ant2	5320	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.759398	20	PASS
			NV	0	20000.00	3.759398	20	PASS
			NV	10	20000.00	3.759398	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5500	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.636364	20	PASS
			NV	-10	20000.00	3.636364	20	PASS
			NV	0	20000.00	3.636364	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.636364	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.636364	20	PASS
	Ant2	5500	NV	-30	20000.00	3.636364	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.636364	20	PASS
			NV	0	20000.00	3.636364	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.636364	20	PASS
			NV	40	20000.00	3.636364	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5580	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.584229	20	PASS
			NV	-10	20000.00	3.584229	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
			NV	40	20000.00	3.584229	20	PASS
			NV	50	20000.00	3.584229	20	PASS
	Ant2	5580	NV	-30	20000.00	3.584229	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.584229	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.584229	20	PASS
	Ant1	5700	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	3.508772	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.508772	20	PASS
			NV	30	20000.00	3.508772	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.508772	20	PASS
	Ant2	5700	NV	-30	20000.00	3.508772	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.017544	20	PASS
			NV	0	20000.00	3.508772	20	PASS
			NV	10	20000.00	3.508772	20	PASS
			NV	20	20000.00	3.508772	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.508772	20	PASS
	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.481288	20	PASS
			NV	0	20000.00	3.481288	20	PASS
			NV	10	20000.00	3.481288	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
	Ant2	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.481288	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	0.00	0.000000	20	PASS
			NV	50	20000.00	3.481288	20	PASS
	Ant1	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	40000.00	6.914434	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	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	20000.00	3.457217	20	PASS
			NV	40	20000.00	3.457217	20	PASS
			NV	50	0.00	0.000000	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	20000.00	3.433476	20	PASS
			NV	20	0.00	0.000000	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
	Ant2	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	-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	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	20000.00	3.861004	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	3.861004	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.861004	20	PASS
	Ant2	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.722008	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	3.861004	20	PASS
	Ant1	5220	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.662835	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.831418	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.831418	20	PASS
			NV	40	-20000.00	-3.831418	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5220	NV	-30	20000.00	3.831418	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.831418	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	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	3.816794	20	PASS
			NV	20	20000.00	3.816794	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	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.816794	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	0.00	0.000000	20	PASS
	Ant1	5260	NV	-30	20000.00	3.802281	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.802281	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	-3.802281	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5260	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	3.802281	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	5300	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	3.773585	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.773585	20	PASS
			NV	30	-20000.00	-3.773585	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.773585	20	PASS
	Ant2	5300	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	-3.773585	20	PASS
			NV	40	20000.00	3.773585	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5320	NV	-30	20000.00	3.759398	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.759398	20	PASS
			NV	0	-20000.00	-3.759398	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
	Ant2	5320	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.759398	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.759398	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.759398	20	PASS
			NV	40	-20000.00	-3.759398	20	PASS
			NV	50	-20000.00	-3.759398	20	PASS
	Ant1	5500	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	-3.636364	20	PASS
			NV	20	20000.00	3.636364	20	PASS
			NV	30	20000.00	3.636364	20	PASS
			NV	40	-20000.00	-3.636364	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5500	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	5580	NV	-30	-20000.00	-3.584229	20	PASS
			NV	-20	20000.00	3.584229	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.584229	20	PASS
			NV	10	20000.00	3.584229	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
			NV	40	20000.00	3.584229	20	PASS
			NV	50	20000.00	3.584229	20	PASS
	Ant2	5580	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	5700	NV	-30	20000.00	3.508772	20	PASS
			NV	-20	20000.00	3.508772	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.508772	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.508772	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.508772	20	PASS
	Ant2	5700	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.017544	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-20000.00	-3.508772	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.508772	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	0.00	0.000000	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	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	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	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	20000.00	3.457217	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
			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
	Ant2	5785	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
			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
	Ant1	5825	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	20000.00	3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
			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
	Ant2	5825	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
			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
	Ant1	5190	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
			NV	-30	40000.00	7.707129	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
	Ant2	5190	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
11N40MI MO			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			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
	Ant1	5230	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
			NV	-30	40000.00	7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
	Ant2	5230	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	5270	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	-7.590133	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	5270	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	-7.590133	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.590133	20	PASS
			NV	50	-40000.00	-7.590133	20	PASS
	Ant1	5310	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	5310	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	7.532957	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.532957	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5510	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.259528	20	PASS
			NV	-10	-40000.00	-7.259528	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-40000.00	-7.259528	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	5510	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	-40000.00	-7.259528	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5550	NV	-30	-40000.00	-7.207207	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	-7.207207	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.207207	20	PASS

			NV	50	0.00	0.000000	20	PASS
	Ant2	5550	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	40000.00	7.207207	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.207207	20	PASS
	Ant1	5670	NV	-30	40000.00	7.054674	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.054674	20	PASS
			NV	0	40000.00	7.054674	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.054674	20	PASS
			NV	40	-40000.00	-7.054674	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5670	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	7.054674	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
			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	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	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

11AC20MIMO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.861004	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	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	0.00	0.000000	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	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5220	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.831418	20	PASS
			NV	-10	20000.00	3.831418	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	-3.831418	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.831418	20	PASS
	Ant2	5220	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.831418	20	PASS
			NV	-10	20000.00	3.831418	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	20000.00	3.831418	20	PASS
			NV	30	20000.00	3.831418	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.831418	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	20000.00	3.816794	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	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	-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	5260	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.802281	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.802281	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.802281	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5260	NV	-30	-20000.00	-3.802281	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	-3.802281	20	PASS
			NV	50	20000.00	3.802281	20	PASS
	Ant1	5300	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	3.773585	20	PASS
			NV	20	-20000.00	-3.773585	20	PASS
			NV	30	-20000.00	-3.773585	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5300	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	3.773585	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	3.773585	20	PASS
	Ant1	5320	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	3.759398	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	5320	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	-3.759398	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	3.759398	20	PASS
	Ant1	5500	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	3.636364	20	PASS
			NV	10	20000.00	3.636364	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	5500	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.636364	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	-3.636364	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5580	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	3.584229	20	PASS
			NV	20	20000.00	3.584229	20	PASS
			NV	30	20000.00	3.584229	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5580	NV	-30	-20000.00	-3.584229	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	3.584229	20	PASS
			NV	40	-20000.00	-3.584229	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5700	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	3.508772	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	5700	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	3.508772	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	3.508772	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	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	0.00	0.000000	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	-20000.00	-3.481288	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	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	20000.00	3.457217	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	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	3.457217	20	PASS
			NV	20	40000.00	6.914434	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
	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	0.00	0.000000	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	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	-20000.00	-3.433476	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC40MIMO	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	-40000.00	-7.707129	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	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	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	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	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
	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	40000.00	7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant1	5270	NV	-30	40000.00	7.590133	20	PASS
			NV	-20	-40000.00	-7.590133	20	PASS
			NV	-10	40000.00	7.590133	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
			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
	Ant2	5270	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	40000.00	7.590133	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			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	7.532957	20	PASS
	Ant1	5310	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
			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
	Ant2	5310	NV	10	-40000.00	-7.532957	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
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.259528	20	PASS
			NV	0	0.00	0.000000	20	PASS
	Ant1	5510	NV	10	40000.00	7.259528	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.259528	20	PASS
			NV	50	0.00	0.000000	20	PASS
			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
	Ant2	5510	NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.259528	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			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	7.207207	20	PASS
	Ant1	5550	NV	10	-40000.00	-7.207207	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.207207	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
	Ant2	5550	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	5670	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.054674	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	7.054674	20	PASS
	Ant2	5670	NV	-30	0.00	0.000000	20	PASS
			NV	-20	40000.00	7.054674	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	7.054674	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.054674	20	PASS
	Ant1	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	0.00	0.000000	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
	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	-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
	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	40000.00	6.902502	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
	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	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC80MIMO	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	80000.00	15.355086	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	5290	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	80000.00	15.122873	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5290	NV	-30	-80000.00	-15.122873	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-80000.00	-15.122873	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	5530	NV	-30	80000.00	14.466546	20	PASS
			NV	-20	80000.00	14.466546	20	PASS
			NV	-10	80000.00	14.466546	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	80000.00	14.466546	20	PASS
			NV	30	80000.00	14.466546	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	14.466546	20	PASS
	Ant2	5530	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	5610	NV	-30	80000.00	14.260250	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	-80000.00	-14.260250	20	PASS
			NV	40	80000.00	14.260250	20	PASS
			NV	50	0.00	0.000000	20	PASS
	Ant2	5610	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-80000.00	-14.260250	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	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	0.00	0.000000	20	PASS
			NV	40	-80000.00	-13.852814	20	PASS
			NV	50	80000.00	13.852814	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

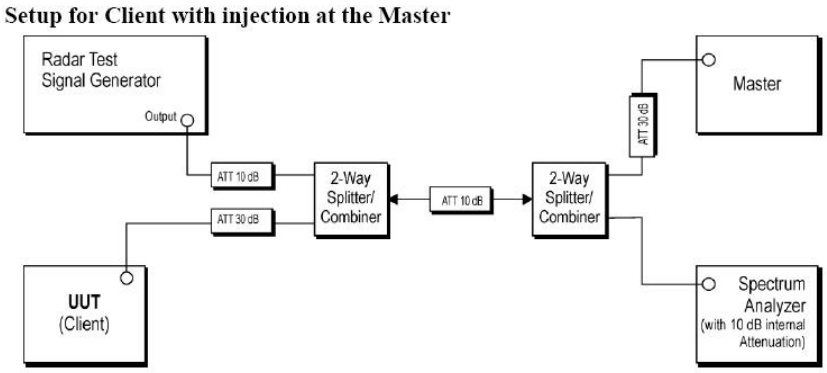
5.7 Dynamic Frequency Selection (DFS)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.2kPa

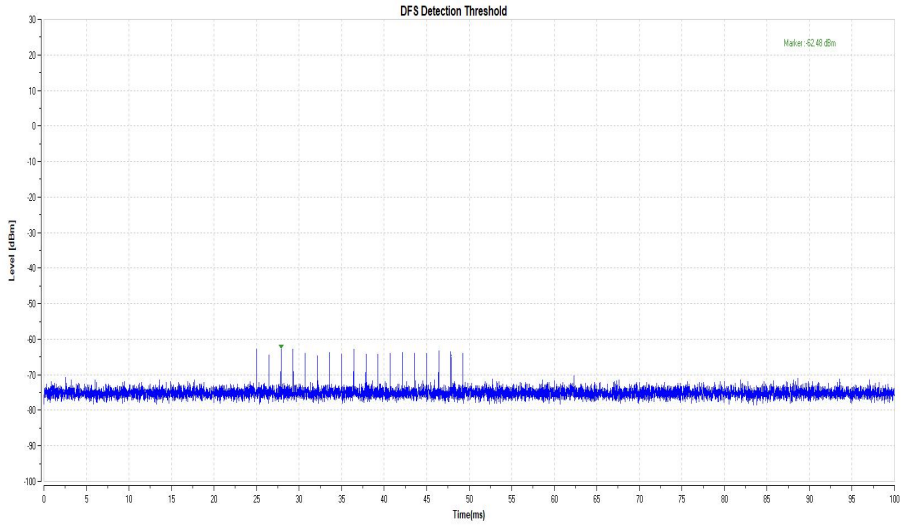
5.7.1 DFS detection threshold level

Test Setup:



Test Results:

Calibration Plots
DFS signal: -62.48dBm
Radar # 0 DFS detection threshold level



5.7.2 UNII Detection Bandwidth

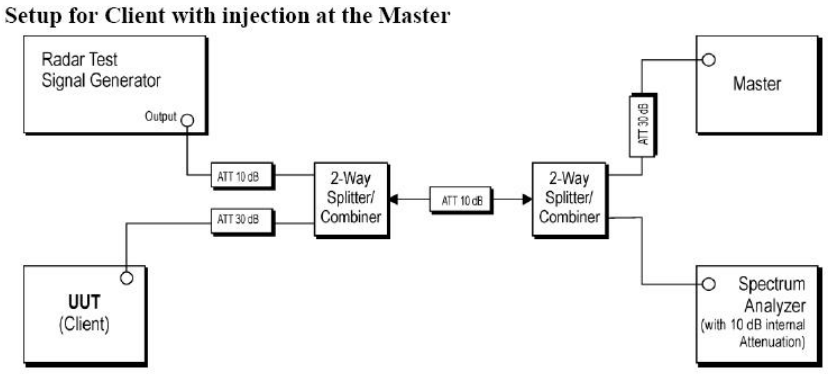
Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as FH. The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as FL. UNII Detection Bandwidth = FH -FL

Limits:

Channel Bandwidth (MHz)	99% Power Bandwidth (MHz)	UNII Detection Bandwidth (MHz)
20	N/A	N/A
40	N/A	N/A
80	N/A	N/A
UNII Detection Bandwidth is minimum 100% of the 99% power bandwidth. A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time.		

Test Setup:



Test Results:

Not required

5.7.3 Channel Availability Check (CAC)

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

Refer as FCC 06-96 Appendix, clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.

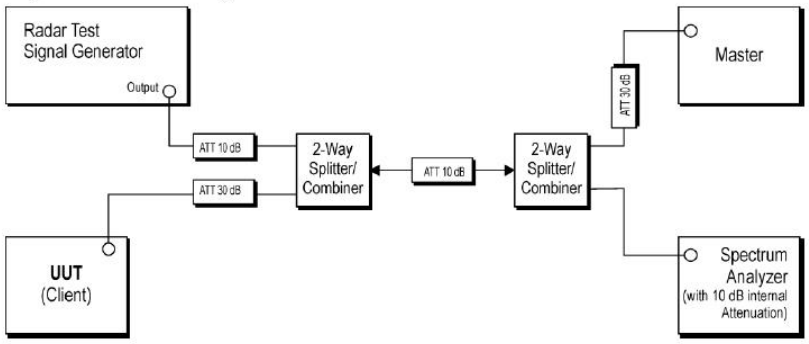
Refer as FCC 06-96 Appendix, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

Limits:

Channel Availability Check Limit
☒The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency.

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

5.7.4 In-service Monitoring

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time limits.

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 1-4 and one for the Long Pulse Radar Type in a 22 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.

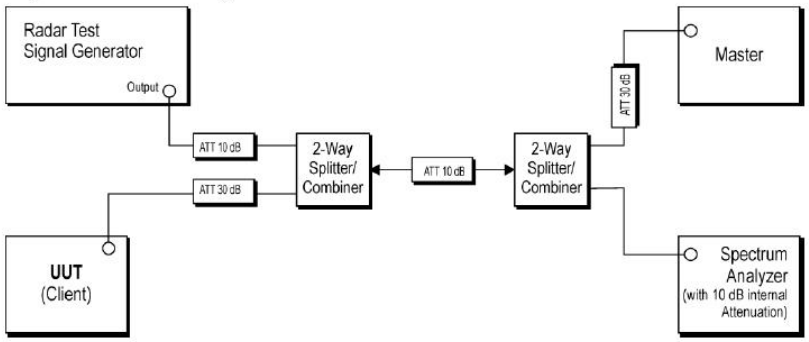
Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Non-Occupancy Period). Compare the Non-Occupancy Period limits.

Limits:

In-service Monitoring Limit	
Channel Move Time	10 sec
Channel Closing Transmission Time	200 ms + an aggregate of 60 ms over remaining 10 sec periods.
Non-occupancy period	Minimum 30 minutes

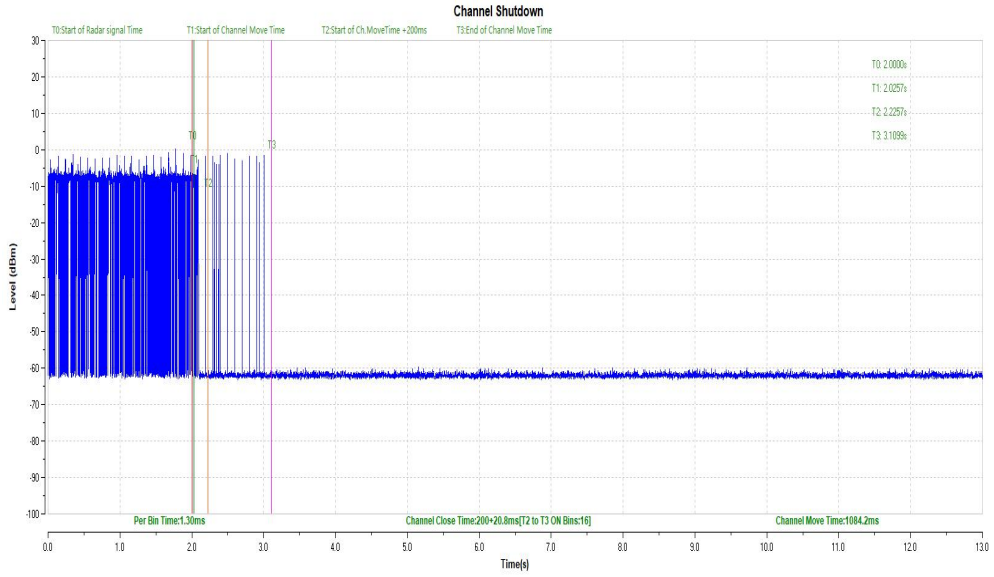
Test Setup:

Setup for Client with injection at the Master

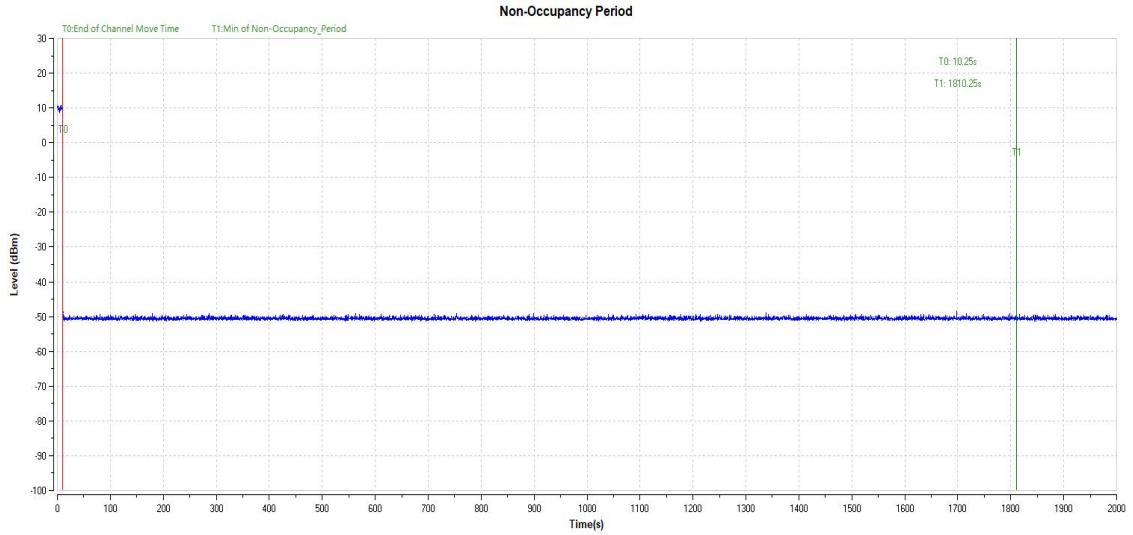


Test Results:

Channel Closing Transmission Time and Channel Move Time Result						
Modulation Mode	**Freq. (MHz)**	**Radar Type**	**Channel Closing Transmission Time**		**Channel Move Time**	
			Result(ms)	**Limit (ms)**	**Result(S)**	**Limit (S)**
802.11ac80	5530	0	220.8	<260	1.0842	<10
Note: Channel Closing Transmission Time=200 + 20.8ms[T2 to T3 ON Bins:4]< 260						
Channel Closing Transmission Time& Channel Move Time						



Non-Occupancy Period Result				
Modulation Mode	**Freq. (MHz)**	**Non-Occupancy Period**		
		Measured	**Limit**	**Result**
802.11ac80	5530	>30min	30min	Complied
2000 sec Timing Plot				



5.7.5 Statistical Performance Check

Method of Measurement:

Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.4 for Statistical Performance Check test. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

Limits:

Radar Type	Minimum Percentage of Successful Detection (Pd)	Minimum Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

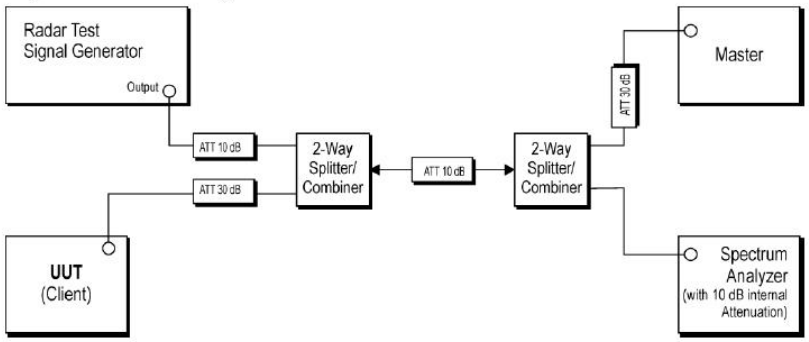
$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trails}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{Pd1+Pd2+Pd3+Pd4}{4}$$

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

6. Appendix X

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
Communication Shielded Room 2	4m*3m*3m	CRTDSWKSR44301	/	CRT	2027/04/22
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2025/04/22
RF Radio Frequency Switch	JS0806-2	19H9080187	DZ-000241	Tonscend	2025/04/27
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIGHT	2025/04/11
5m Semi-Anechoic Chamber	SAC-5	SAC-5-2.0	EM-000557	COMTEST	2024/11/02
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2025/01/02
EMI Test Receiver	N9038A-508	MY532290079	EM-000397	Agilent	2025/01/13
EMI Test Receiver	ESR7	102235	EM-000574	R&S	2025/01/13
loop antenna	HLA 6121	540046	EM-000546	TESEQ	2025/06/04
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWARZBECK	2025/06/09
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWARZBECK	2025/08/03
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2025/06/02
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	1	DZ-000186	WI	2024/12/03
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2025/06/03
Temperature and humidity meter	MHO-C201	/	DZ-000249-2	Seconds test	2025/07/28
Temperature and humidity meter	MHO-C201	/	DZ-000249-5	Seconds test	2025/07/28

Dynacomm	Software Release	Software Developer
TS1120-3 Test System(Conduction test)	3.3.38	Tonscend
TS+（5m,Radiation test）	JS32-RE 5.0.0	Tonscend

Description Of Support Units

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

Description	Brand	Model No.	FCC ID	Serial Number	Supplied by
AX3000 Gigabit Wi-Fi 6 Router	TP-Link	Archer AX50	TE7AX50	22170V0001968	/

The End

Important

1. The test report is invalid without the official stamp of CVC;
2. Any part photocopies of the test report are forbidden without the written permission from CVC;
3. The test report is invalid without the signatures of Author and Reviewer;
4. The test report is invalid if altered;
5. Objections to the test report must be submitted to CVC within 15 days;
6. Generally, commission test is responsible for the tested samples only;
7. As for the test result, "—" or " N/A" means "not applicable", " / "means "not testing", "P" means "pass" and "F" means "fail".

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