



Test Report No.:
FCC2024-0047-RF3

TEST REPORT

FCC ID : 2BLRY-CGODMBO355DSB
Applicant : Coates US, Inc
Product Name : Outdoor display unit
Model No. : CD-DDT-O3-55-XD-Y

CVC Testing Technology Co., Ltd.

Product Name	Outdoor display unit	Trade Mark	Coates
Type/Model	CD-DDT-O3-55-XD-Y	Sample Status	/
Applicant	Coates US, Inc		
Applicant Address	112 N. May Street, Floor 2, Chicago, IL 60607, USA.		
Manufacturer	Coates Technology Labs Pty Ltd.		
Manufacturer Address	36 Doody St Alexandria, Sydney, NSW, Australia, 2015		
Factory	Dongguan Sampo Electronics Co.,Ltd.		
Factory Address	Building B, Sintave Industrial Park, Lundu Road, QiShaVillage, ShaTian Town, DongGuanCity, Guangdong, China		
Sample Identification	1-1	Test Item	See page 8
Tested According To	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		
Receiving Date	2024-09-18	Completing Date	2024-11-22
Test conclusion	The equipment under test was found to comply with the requirements of the standards applied. Final Verdict: Pass. Seal of CVC Date of issue: 2025-01-09		
Abbreviations: / Pass= passed Fail = failed N/A= not applicable			
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.			

Approved by:

Chen Huawen



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Tested by:

Lu Weiji



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2024-0047-RF3	Original release	January.09,2025

1. General Product Information

1.1 General information

Product Name	Outdoor display unit
Model No.	CD-DDT-O3-55-XD-Y
Additional model	/
Power Supply	100-240V ac,9.1A,50-60 Hz
Serial Number(SN)	/
Hardware	1020200165-00
Software	/
specific power settings	IEEE 802.11a: 16 IEEE 802.11n(20MHz): 16 IEEE 802.11n(40MHz): 15 IEEE 802.11ac(20MHz): 16 IEEE 802. 11ac (40MHz): 15 IEEE 802. 11ac (80MHz): 15
Antenna Type	Internal antenna
Antenna Gain	U-NII-1: Ant1:4.0 dBi, Ant2:4.0 dBi (provided by client) U-NII-3: Ant1:4.0 dBi, Ant2:4.0 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-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: 15.19 dBm U-NII-3: 15.34 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	-10°C~+40°C
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. 3. The product models of this application are: CD-DDT-O3-55-XD-Y. All the tests carried out on model CD-DDT-O3-55-XD-Y.	

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.

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Telephone : +86-20-32293888

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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	36,44,48,149,157,165
IEEE 802.11N 20 MIMO	2TX / 2RX	36,44,48,149,157,165
IEEE 802.11N 40 MIMO	2TX / 2RX	38,46,151,159
IEEE 802.11AC 20 MIMO	2TX / 2RX	36,44,48,149,157,165
IEEE 802.11AC 40 MIMO	2TX / 2RX	38,46,151,159
IEEE 802.11AC 80 MIMO	2TX / 2RX	42,155

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	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
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	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
Unwanted Emissions (Band Edge Measurement)	MIMO	IEEE 802.11AC 20	36,48,149,165
Unwanted Emissions (Spurious Emissions)	MIMO	IEEE 802.11AC 20	36,44,48,149,157,165
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	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
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	36,44,48,149,157,165/ 36,44,48,149,157,165/ 38,46,151,159/ 36,44,48,149,157,165/ 38,46,151,159/ 42,155
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	2.06	2.10	98.10	---	---
	Ant2	5180	2.07	2.10	98.57	---	---
	Ant1	5220	2.06	2.10	98.10	---	---
	Ant2	5220	2.07	2.10	98.57	---	---
	Ant1	5240	2.06	2.11	97.63	---	---
	Ant2	5240	2.06	2.10	98.10	---	---
	Ant1	5745	2.06	2.10	98.10	---	---
	Ant2	5745	2.07	2.11	98.10	---	---
	Ant1	5785	2.07	2.10	98.57	---	---
	Ant2	5785	2.07	2.10	98.57	---	---
	Ant1	5825	2.07	2.10	98.57	---	---
	Ant2	5825	2.06	2.11	97.63	---	---
11N20MIMO	Ant1	5180	1.92	1.96	97.96	---	---
	Ant2	5180	1.92	1.96	97.96	---	---
	Ant1	5220	1.93	1.96	98.47	---	---
	Ant2	5220	1.92	1.96	97.96	---	---
	Ant1	5240	1.92	1.96	97.96	---	---
	Ant2	5240	1.92	1.96	97.96	---	---
	Ant1	5745	1.92	1.96	97.96	---	---
	Ant2	5745	1.93	1.96	98.47	---	---
	Ant1	5785	1.92	1.96	97.96	---	---
	Ant2	5785	1.92	1.96	97.96	---	---
	Ant1	5825	1.92	1.96	97.96	---	---
	Ant2	5825	1.93	1.96	98.47	---	---
11N40MIMO	Ant1	5190	0.95	0.98	96.94	---	---
	Ant2	5190	0.95	0.99	95.96	---	---
	Ant1	5230	0.95	0.98	96.94	---	---
	Ant2	5230	0.95	0.98	96.94	---	---
	Ant1	5755	0.95	0.98	96.94	---	---
	Ant2	5755	0.96	0.99	96.97	---	---
	Ant1	5795	0.95	0.98	96.94	---	---
	Ant2	5795	0.95	0.98	96.94	---	---
11AC20MIMO	Ant1	5180	1.93	1.97	97.97	---	---
	Ant2	5180	1.94	1.97	98.48	---	---
	Ant1	5220	1.93	1.97	97.97	---	---
	Ant2	5220	1.93	1.97	97.97	---	---
	Ant1	5240	1.93	1.97	97.97	---	---
	Ant2	5240	1.93	1.97	97.97	---	---
	Ant1	5745	1.93	1.97	97.97	---	---
	Ant2	5745	1.93	1.96	98.47	---	---
	Ant1	5785	1.93	1.98	97.47	---	---
	Ant2	5785	1.93	1.97	97.97	---	---
	Ant1	5825	1.93	1.97	97.97	---	---
	Ant2	5825	1.94	1.97	98.48	---	---
11AC40MIMO	Ant1	5190	0.95	0.99	95.96	---	---
	Ant2	5190	0.95	0.99	95.96	---	---
	Ant1	5230	0.95	0.99	95.96	---	---
	Ant2	5230	0.96	0.99	96.97	---	---
	Ant1	5755	0.95	0.99	95.96	---	---
	Ant2	5755	0.95	0.99	95.96	---	---
	Ant1	5795	0.96	0.99	96.97	---	---
	Ant2	5795	0.96	0.99	96.97	---	---
11AC80MIMO	Ant1	5210	0.46	0.50	92.00	---	---
	Ant2	5210	0.47	0.50	94.00	---	---
	Ant1	5775	0.46	0.50	92.00	---	---
	Ant2	5775	0.46	0.50	92.00	---	---

4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Verdict	Note
Conducted Emissions	15.207	PASS	/
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.

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.

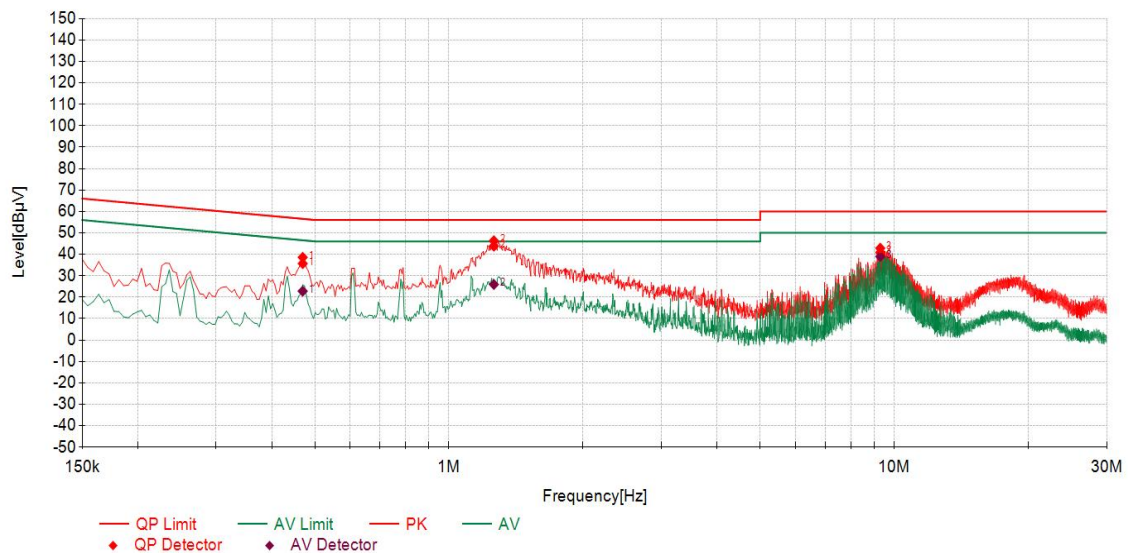
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Test Results:

During the test, the Conducted Emission from 150kHz to 30MHz 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.

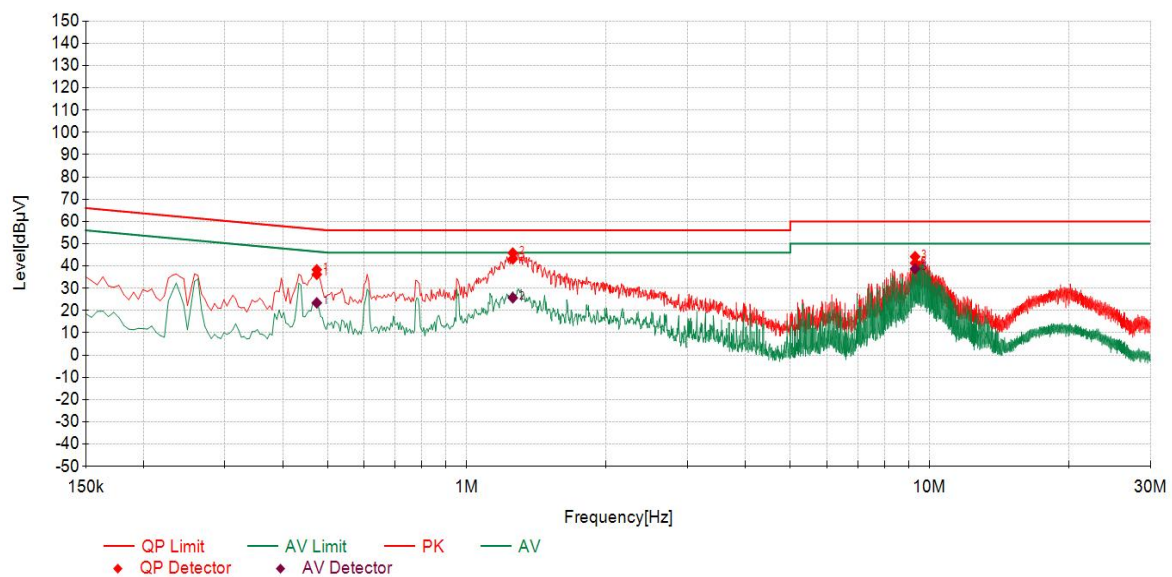
Radiates Emission		150k~30MHz					
Power Line		L					
Test channel		Worst-Case					
Suspected List							
Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Pass/Fail
0.4695	20.05	18.50	38.55	56.52	17.97	PK	PASS
1.2615	20.01	26.29	46.30	56.00	9.70	PK	PASS
9.303	21.23	21.60	42.83	60.00	17.17	PK	PASS

Final Data List								
Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Pass/Fail
0.4695	20.05	35.66	56.52	20.86	22.79	46.52	23.73	PASS
1.2615	20.01	43.81	56.00	12.19	25.89	46.00	20.11	PASS
9.303	21.23	40.83	60.00	19.17	38.97	50.00	11.03	PASS



Radiates Emission		150k~30MHz					
Power Line		N					
Test channel		Worst-Case					
Suspected List							
Freq. [MHz]	Factor [dB]	Reading [dBμV]	Level [dBμV]	Limit [dBμV]	Margin [dB]	Detector	Pass/Fail
0.474	19.99	18.32	38.31	56.44	18.13	PK	PASS
1.257	20.10	25.73	45.83	56.00	10.17	PK	PASS
9.303	22.10	22.09	44.19	60.00	15.81	PK	PASS

Final Data List								
Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Pass/Fail
0.474	19.99	36.21	56.44	20.23	23.40	46.44	23.04	PASS
1.257	20.10	43.13	56.00	12.87	25.67	46.00	20.33	PASS
9.303	22.10	41.28	60.00	18.72	38.71	50.00	11.29	PASS



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 chamber. 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:

- 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.
- 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).
- 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).
- 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、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

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

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- 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	$20\lg(24000000/F(\text{kHz}))$	Quasi-peak Level
0.490MHz~1.705MHz	24000/F(kHz)@30m	$20\lg(2400000/F(\text{kHz}))$	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

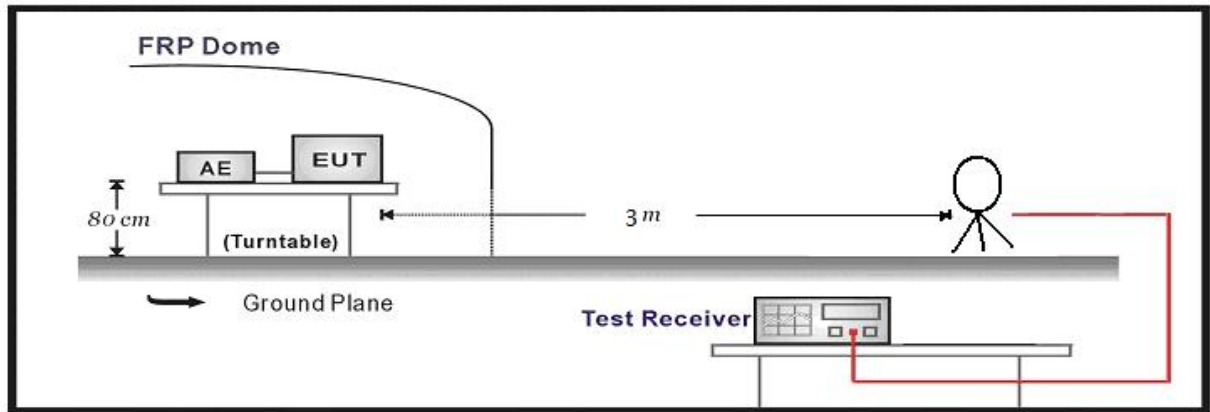
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

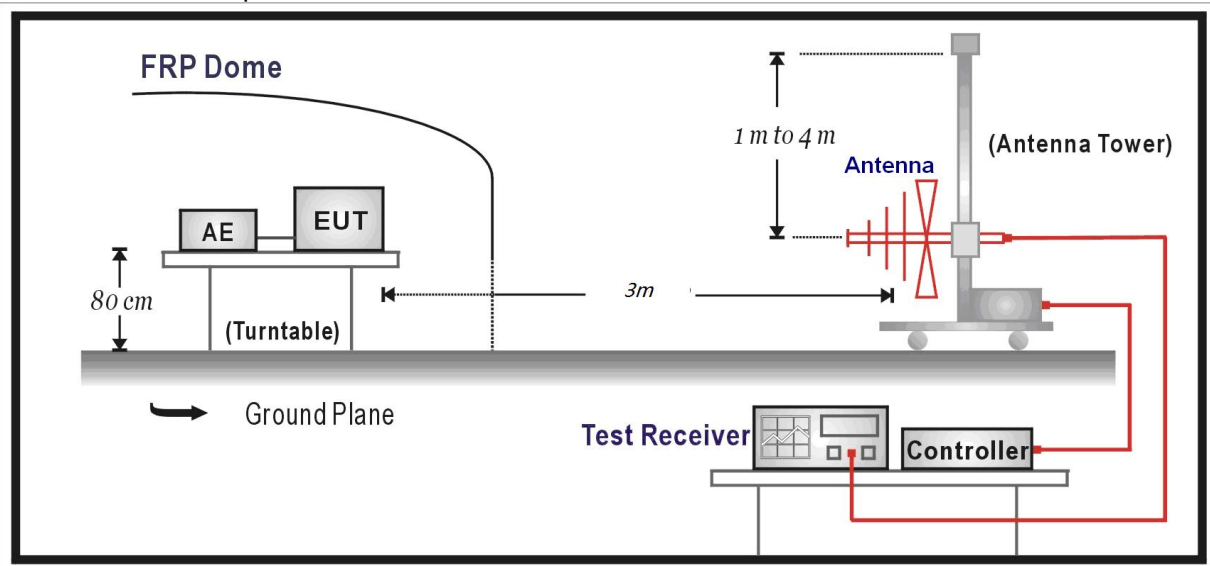
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Test Setup:

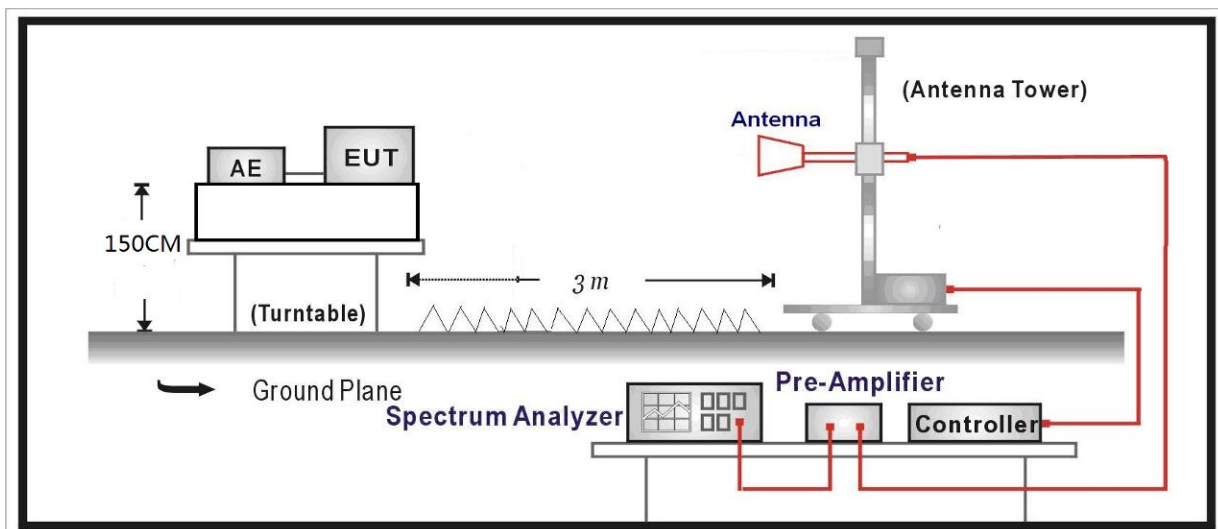
Below 30MHz Test Setup:



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:

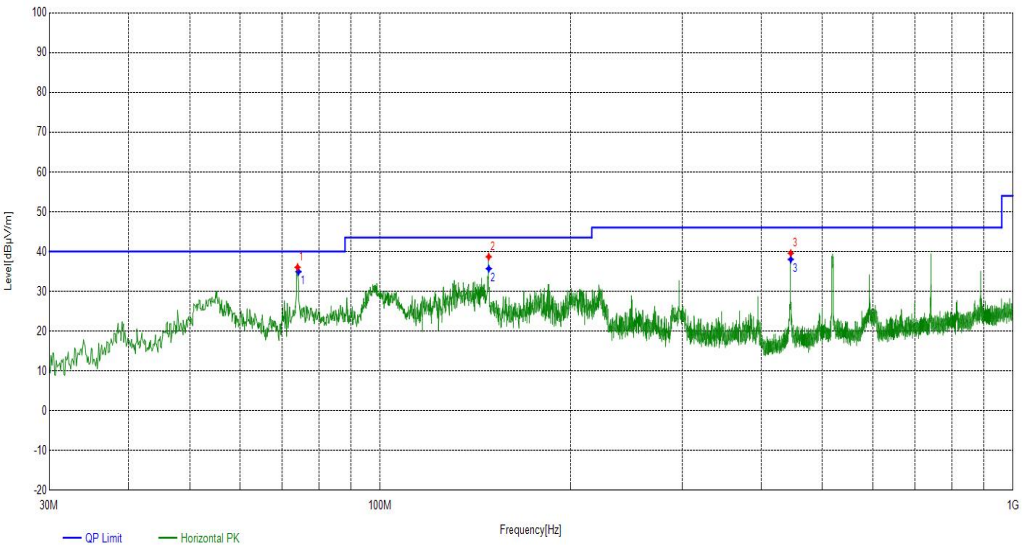
5.2.1.1 Below 1GHz:

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]	Detect or	Height [cm]	Angle deg	Pass/ Fail
74.0424	9.22	26.82	36.04	40.00	3.96	PK	100	353	PASS
148.4488	9.51	29.19	38.70	43.50	4.80	PK	100	289	PASS
445.4925	18.70	20.86	39.56	46.00	6.44	PK	100	302	PASS

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

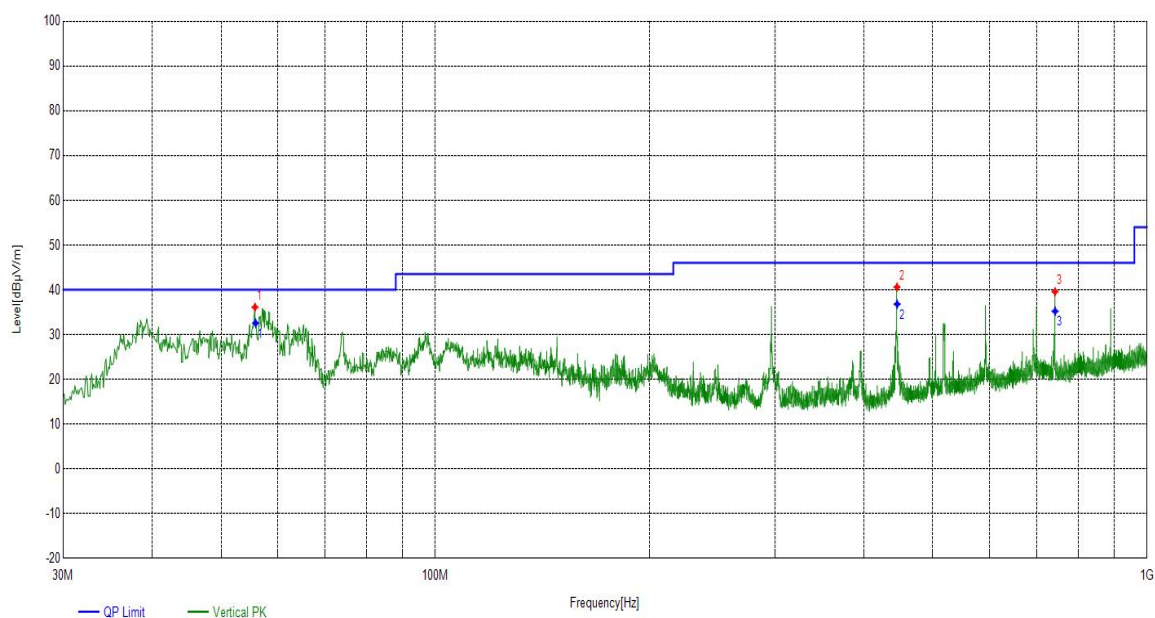
Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
74.2985	9.22	34.94	40.00	5.06	340	350	PASS
148.4811	9.51	35.69	43.50	7.81	290	288	PASS
445.4796	18.70	38.03	46.00	7.97	280	307	PASS



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]	Detect or	Height [cm]	Angle deg	Pass/ Fail
55.8046	12.56	23.55	36.11	40.00	3.89	PK	100	132	PASS
445.2985	18.70	21.91	40.61	46.00	5.39	PK	100	125	PASS
742.5363	23.81	15.76	39.57	46.00	6.43	PK	100	59	PASS

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

Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
55.9144	12.56	32.55	40.00	7.45	390	137	PASS
445.4854	18.70	36.79	46.00	9.21	130	129	PASS
742.7186	23.81	35.21	46.00	10.79	220	64	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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	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-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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	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]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4386.3386	-0.35	42.16	41.81	74.00	32.19	PK	150	168	PASS
4939.3939	1.42	43.04	44.46	74.00	29.54	PK	150	174	PASS
5150.4150	2.14	40.71	42.85	74.00	31.15	PK	150	122	PASS
4386.3386	-0.35	28.73	28.38	54.00	25.62	AV	150	187	PASS
4939.3939	1.42	27.54	28.96	54.00	25.04	AV	150	317	PASS
5150.4150	2.14	26.58	28.72	54.00	25.28	AV	150	187	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]	Detect or	Height [cm]	Angle deg	Pass/ Fail
4570.3570	-0.19	44.41	44.22	74.00	29.78	PK	150	157	PASS
4936.3936	1.41	46.54	47.95	74.00	26.05	PK	150	184	PASS
5150.4150	2.14	40.37	42.51	74.00	31.49	PK	150	191	PASS
4570.3570	-0.19	28.00	27.81	54.00	26.19	AV	150	157	PASS
4936.3936	1.41	27.89	29.30	54.00	24.70	AV	150	1	PASS
5150.4150	2.14	27.34	29.48	54.00	24.52	AV	150	191	PASS

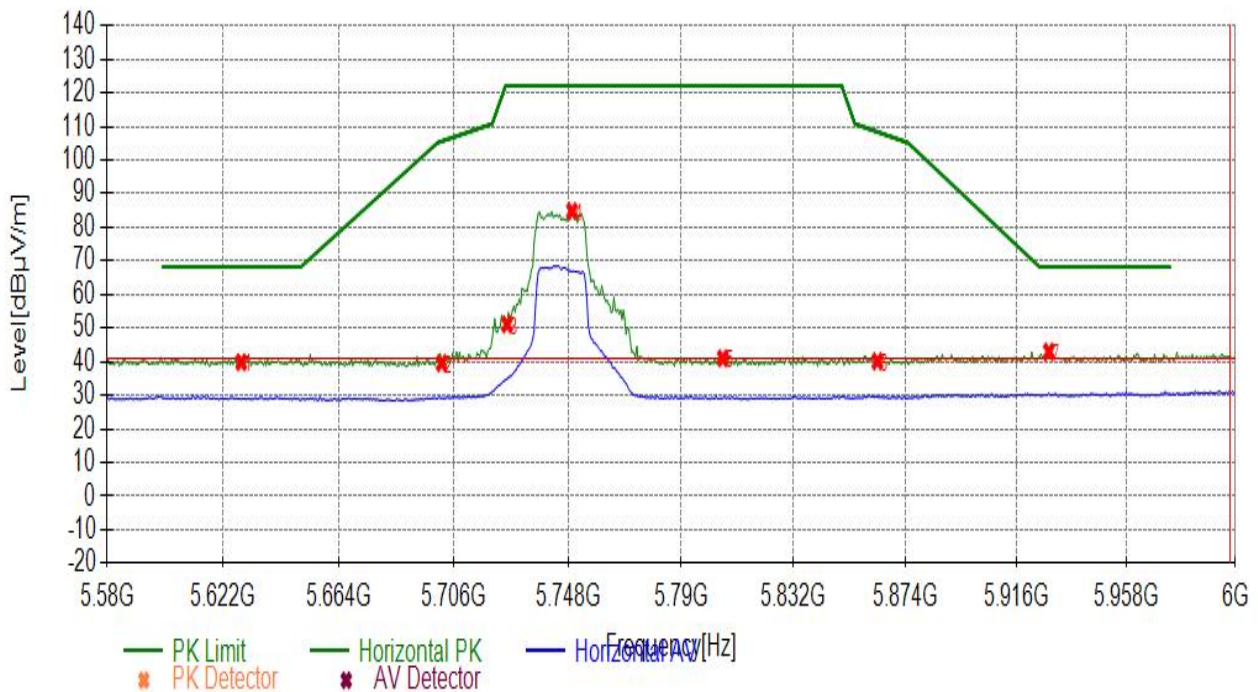
Test mode			802.11ac20						
Test channel			Highest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5350.4350	2.69	38.34	41.03	74.00	32.97	PK	150	292	PASS
5571.4571	3.36	36.31	39.67	74.00	34.33	PK	150	300	PASS
5945.9946	4.99	37.51	42.50	74.00	31.50	PK	150	121	PASS
5350.4350	2.69	26.28	28.97	54.00	25.03	AV	150	134	PASS
5571.4571	3.36	25.86	29.22	54.00	24.78	AV	150	354	PASS
5945.9946	4.99	25.32	30.31	54.00	23.69	AV	150	354	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	37.10	39.79	74.00	34.21	PK	150	155	PASS
5595.4595	3.46	38.00	41.46	74.00	32.54	PK	150	359	PASS
5981.9982	5.15	37.99	43.14	74.00	30.86	PK	150	181	PASS
5350.4350	2.69	26.30	28.99	54.00	25.01	AV	150	264	PASS
5595.4595	3.46	25.81	29.27	54.00	24.73	AV	150	348	PASS
5981.9982	5.15	25.69	30.84	54.00	23.16	AV	150	322	PASS

U-NII-3 5725-5850MHz:

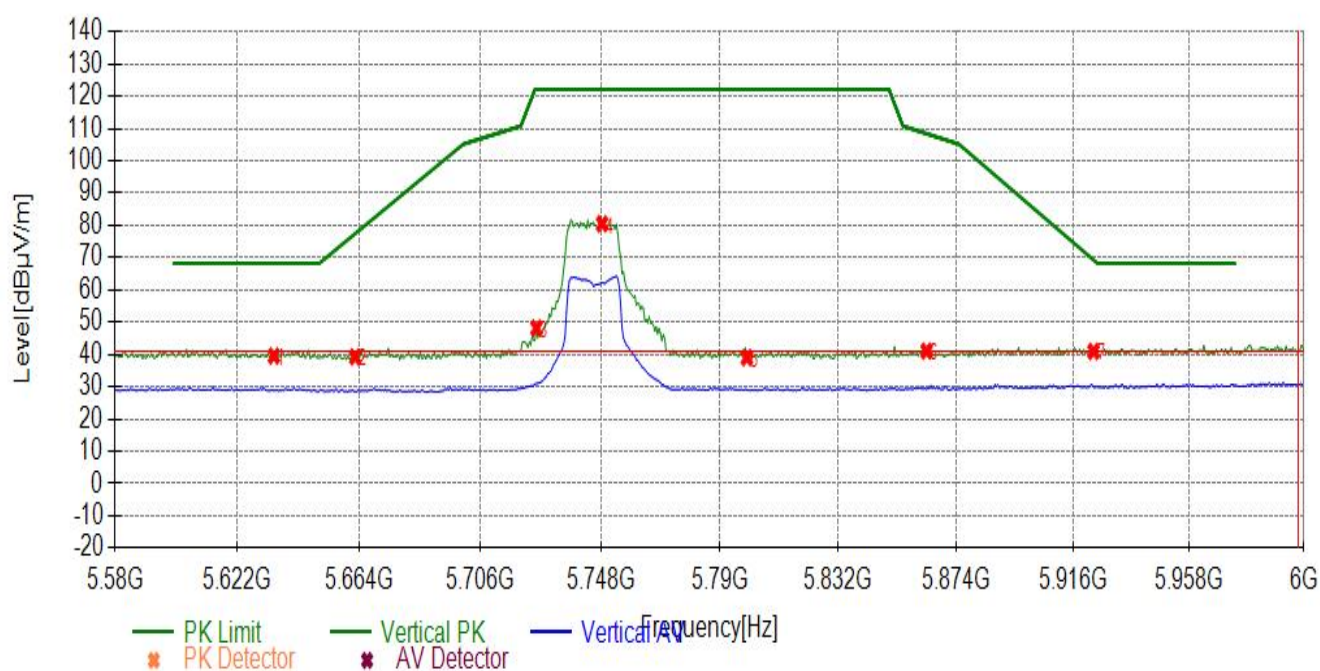
During the test, the Band Edge was performed in WIFI all modes with all channels and all antennas.

802.11ac20, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

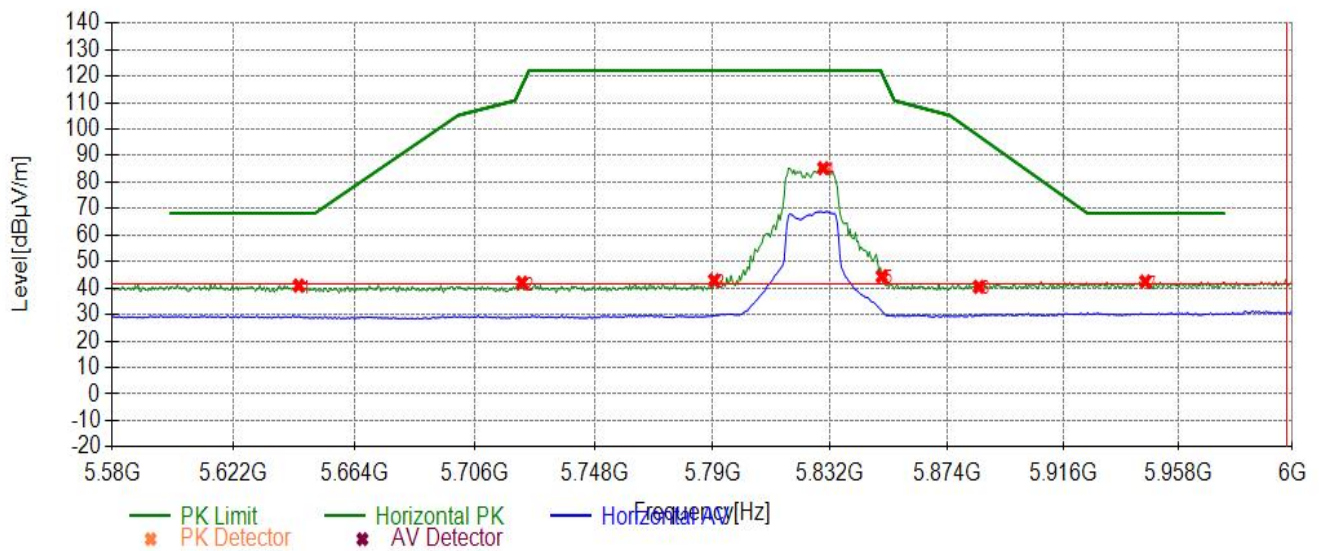
Test mode			802.11ac20						
Test channel			Lowest channel						
polarization			Horizontal						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5628.4628	3.61	36.26	39.87	68.20	28.33	PK	150	99	PASS
5701.4701	3.92	35.67	39.59	105.61	66.02	PK	150	138	PASS
5725.4725	4.02	47.11	51.13	122.20	71.07	PK	150	138	PASS
5749.4749	4.12	80.71	84.83	122.20	37.37	PK	150	219	PASS
5805.4805	4.36	36.68	41.04	122.20	81.16	PK	150	335	PASS
5863.4863	4.62	35.53	40.15	108.42	68.27	PK	150	93	PASS
5928.4928	4.92	38.12	43.04	68.20	25.16	PK	150	9	PASS



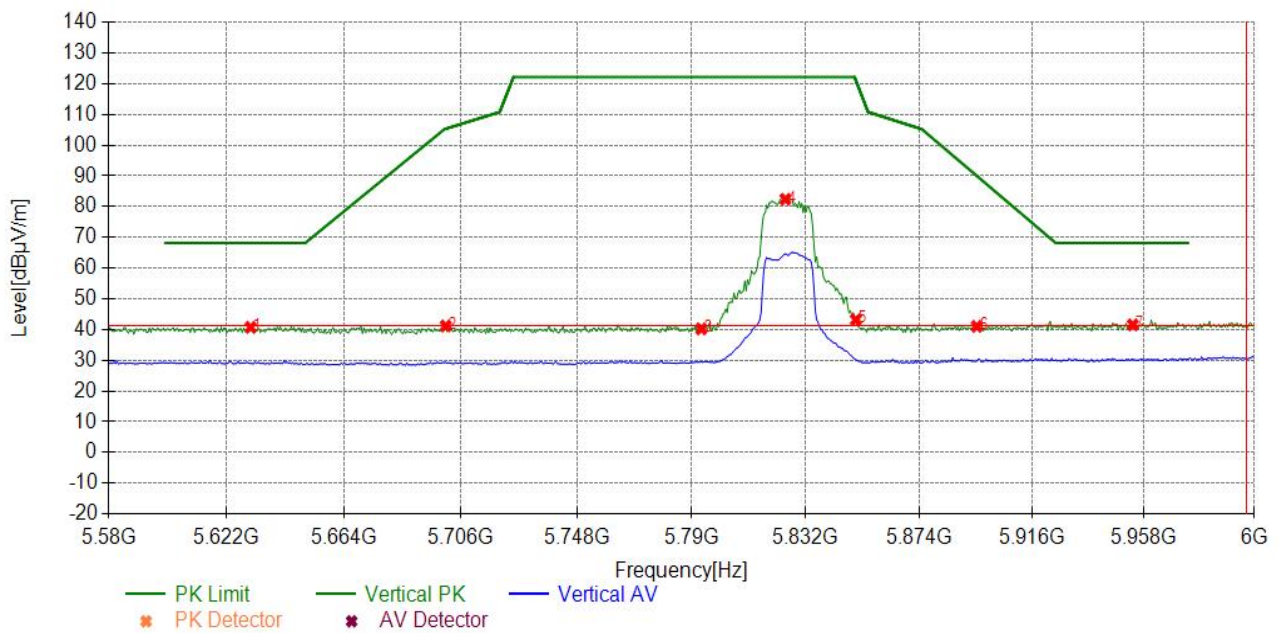
Test mode			802.11ac20						
Test channel			Lowest channel						
polarization			Vertical						
Suspected List									
Frequency [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detect or	Height [cm]	Angle deg	Pass/ Fail
5634.4634	3.63	35.91	39.54	68.20	28.66	PK	150	88	PASS
5662.4662	3.75	35.51	39.26	77.46	38.20	PK	150	289	PASS
5725.4725	4.02	44.16	48.18	122.20	74.02	PK	150	127	PASS
5748.4748	4.12	76.38	80.50	122.20	41.70	PK	150	133	PASS
5799.4799	4.34	34.73	39.07	122.20	83.13	PK	150	258	PASS
5863.4863	4.62	36.46	41.08	108.42	67.34	PK	150	15	PASS
5923.4923	4.88	36.10	40.98	69.31	28.33	PK	150	152	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
5644.4644	3.67	37.29	40.96	68.20	27.24	PK	150	290	PASS
5722.4722	4.01	38.07	42.08	116.44	74.36	PK	150	107	PASS
5790.4790	4.30	38.61	42.91	122.20	79.29	PK	150	146	PASS
5829.4829	4.47	80.82	85.29	122.20	36.91	PK	150	140	PASS
5850.4850	4.56	39.86	44.42	121.09	76.67	PK	150	159	PASS
5885.4885	4.72	35.76	40.48	97.41	56.93	PK	150	101	PASS
5945.9946	4.99	37.51	42.50	68.20	25.70	PK	150	296	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
5630.4630	3.61	37.14	40.75	68.20	27.45	PK	150	95	PASS
5700.4700	3.91	37.26	41.17	105.33	64.16	PK	150	238	PASS
5793.4793	4.31	35.92	40.23	122.20	81.97	PK	150	107	PASS
5824.4824	4.44	77.97	82.41	122.20	39.79	PK	150	173	PASS
5850.4850	4.56	38.63	43.19	121.09	77.90	PK	150	166	PASS
5895.4895	4.76	36.29	41.05	90.00	48.95	PK	150	251	PASS
5953.9954	5.03	36.52	41.55	68.20	26.65	PK	150	283	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 $11 \text{ dBm} + 10 \log B$, 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	4.0	4.0	7.01	22.97
5725-5825	4.0	4.0	7.01	28.99

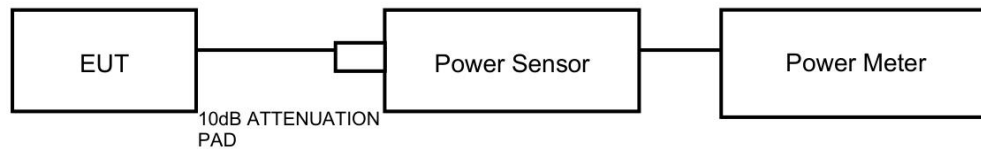
Note: B is the 26 dB emission bandwidth in megahertz.

Directional gain is to be computed as follows:

transmit signals are correlated, then

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

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	Conducted power Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.92	≤22.97	PASS
	Ant2	5180	11.62	≤22.97	PASS
	Ant1	5220	12.11	≤22.97	PASS
	Ant2	5220	11.72	≤22.97	PASS
	Ant1	5240	12.02	≤22.97	PASS
	Ant2	5240	11.78	≤22.97	PASS
	Ant1	5745	12.51	≤28.99	PASS
	Ant2	5745	11.30	≤28.99	PASS
	Ant1	5785	12.59	≤28.99	PASS
	Ant2	5785	11.33	≤28.99	PASS
11N20MIMO	Ant1	5825	12.33	≤28.99	PASS
	Ant2	5825	11.46	≤28.99	PASS
	Ant1	5180	12.44	≤22.97	PASS
	Ant2	5180	11.44	≤22.97	PASS
	total	5180	14.98	≤22.97	PASS
	Ant1	5220	11.88	≤22.97	PASS
	Ant2	5220	11.41	≤22.97	PASS
	total	5220	14.66	≤22.97	PASS
	Ant1	5240	11.74	≤22.97	PASS
	Ant2	5240	11.59	≤22.97	PASS
	total	5240	14.68	≤22.97	PASS
	Ant1	5745	12.01	≤28.99	PASS
	Ant2	5745	11.84	≤28.99	PASS
	total	5745	14.94	≤28.99	PASS
	Ant1	5785	12.21	≤28.99	PASS
	Ant2	5785	11.89	≤28.99	PASS
	total	5785	15.06	≤28.99	PASS
	Ant1	5825	12.94	≤28.99	PASS
	Ant2	5825	11.04	≤28.99	PASS
	total	5825	15.10	≤28.99	PASS
11N40MIMO	Ant1	5190	12.31	≤22.97	PASS
	Ant2	5190	11.31	≤22.97	PASS
	total	5190	14.85	≤22.97	PASS
	Ant1	5230	12.66	≤22.97	PASS
	Ant2	5230	11.33	≤22.97	PASS
	total	5230	15.06	≤22.97	PASS
	Ant1	5755	12.78	≤28.99	PASS
	Ant2	5755	11.48	≤28.99	PASS
	total	5755	15.19	≤28.99	PASS
	Ant1	5795	12.89	≤28.99	PASS
	Ant2	5795	11.69	≤28.99	PASS
	total	5795	15.34	≤28.99	PASS
11AC20MIMO	Ant1	5180	12.52	≤22.97	PASS
	Ant2	5180	11.27	≤22.97	PASS
	total	5180	14.95	≤22.97	PASS
	Ant1	5220	11.97	≤22.97	PASS
	Ant2	5220	11.33	≤22.97	PASS
	total	5220	14.67	≤22.97	PASS
	Ant1	5240	12.85	≤22.97	PASS
	Ant2	5240	11.39	≤22.97	PASS
	total	5240	15.19	≤22.97	PASS
	Ant1	5745	12.04	≤28.99	PASS
	Ant2	5745	11.89	≤28.99	PASS
	total	5745	14.98	≤28.99	PASS
	Ant1	5785	12.29	≤28.99	PASS
	Ant2	5785	10.06	≤28.99	PASS
	total	5785	14.33	≤28.99	PASS
	Ant1	5825	12.53	≤28.99	PASS
	Ant2	5825	11.16	≤28.99	PASS
	total	5825	14.91	≤28.99	PASS

Test Mode	Antenna	Channel	Conducted power Result [dBm]	Limit [dBm]	Verdict
11AC40MIMO	Ant1	5190	12.34	≤ 22.97	PASS
	Ant2	5190	11.35	≤ 22.97	PASS
	total	5190	14.88	≤ 22.97	PASS
	Ant1	5230	12.70	≤ 22.97	PASS
	Ant2	5230	11.33	≤ 22.97	PASS
	total	5230	15.08	≤ 22.97	PASS
	Ant1	5755	12.86	≤ 28.99	PASS
	Ant2	5755	11.26	≤ 28.99	PASS
	total	5755	15.14	≤ 28.99	PASS
	Ant1	5795	12.41	≤ 28.99	PASS
	Ant2	5795	9.77	≤ 28.99	PASS
	total	5795	14.30	≤ 28.99	PASS
11AC80MIMO	Ant1	5210	12.00	≤ 22.97	PASS
	Ant2	5210	11.17	≤ 22.97	PASS
	total	5210	14.62	≤ 22.97	PASS
	Ant1	5775	11.44	≤ 28.99	PASS
	Ant2	5775	10.28	≤ 28.99	PASS
	total	5775	13.91	≤ 28.99	PASS

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 $\approx 1\%$ OCB kHz, VBW $\geq 3 \times$ 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 $\geq 3 \times$ 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.

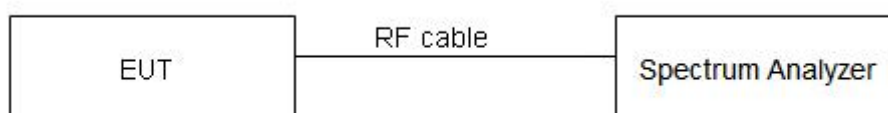
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

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	15.12	5737.52	5752.64	≥0.5	PASS
	Ant2	5745	15.12	5737.52	5752.64	≥0.5	PASS
	Ant1	5785	15.08	5777.52	5792.60	≥0.5	PASS
	Ant2	5785	15.32	5777.52	5792.84	≥0.5	PASS
	Ant1	5825	15.52	5817.32	5832.84	≥0.5	PASS
	Ant2	5825	15.52	5817.32	5832.84	≥0.5	PASS
11N20MIMO	Ant1	5745	16.56	5736.68	5753.24	≥0.5	PASS
	Ant2	5745	15.96	5736.68	5752.64	≥0.5	PASS
	Ant1	5785	15.08	5777.52	5792.60	≥0.5	PASS
	Ant2	5785	16.04	5777.20	5793.24	≥0.5	PASS
	Ant1	5825	15.96	5816.68	5832.64	≥0.5	PASS
	Ant2	5825	15.96	5816.68	5832.64	≥0.5	PASS
11N40MIMO	Ant1	5755	35.20	5737.48	5772.68	≥0.5	PASS
	Ant2	5755	35.12	5737.48	5772.60	≥0.5	PASS
	Ant1	5795	35.20	5777.48	5812.68	≥0.5	PASS
	Ant2	5795	35.20	5777.48	5812.68	≥0.5	PASS
11AC20MIMO	Ant1	5745	15.48	5737.16	5752.64	≥0.5	PASS
	Ant2	5745	16.52	5736.68	5753.20	≥0.5	PASS
	Ant1	5785	15.64	5777.20	5792.84	≥0.5	PASS
	Ant2	5785	15.68	5777.52	5793.20	≥0.5	PASS
	Ant1	5825	15.96	5816.68	5832.64	≥0.5	PASS
	Ant2	5825	15.96	5816.68	5832.64	≥0.5	PASS
11AC40MIMO	Ant1	5755	35.20	5737.48	5772.68	≥0.5	PASS
	Ant2	5755	35.44	5737.16	5772.60	≥0.5	PASS
	Ant1	5795	35.20	5777.48	5812.68	≥0.5	PASS
	Ant2	5795	35.12	5777.48	5812.60	≥0.5	PASS
11AC80MIMO	Ant1	5775	75.04	5737.56	5812.60	≥0.5	PASS
	Ant2	5775	75.04	5737.56	5812.60	≥0.5	PASS

Test Results: Emission Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.60	5168.12	5192.72	---	---
	Ant2	5180	26.76	5166.76	5193.52	---	---
	Ant1	5220	24.32	5208.36	5232.68	---	---
	Ant2	5220	25.48	5207.60	5233.08	---	---
	Ant1	5240	24.44	5228.28	5252.72	---	---
	Ant2	5240	25.28	5227.68	5252.96	---	---
	Ant1	5745	24.88	5733.00	5757.88	---	---
	Ant2	5745	25.40	5732.88	5758.28	---	---
	Ant1	5785	25.04	5772.92	5797.96	---	---
	Ant2	5785	26.00	5772.96	5798.96	---	---
	Ant1	5825	25.32	5812.92	5838.24	---	---
	Ant2	5825	25.28	5812.88	5838.16	---	---
11N20MIMO	Ant1	5180	25.36	5167.80	5193.16	---	---
	Ant2	5180	28.12	5166.08	5194.20	---	---
	Ant1	5220	25.20	5208.00	5233.20	---	---
	Ant2	5220	26.28	5206.36	5232.64	---	---
	Ant1	5240	24.08	5228.16	5252.24	---	---
	Ant2	5240	27.60	5226.76	5254.36	---	---
	Ant1	5745	26.28	5731.88	5758.16	---	---
	Ant2	5745	28.08	5731.92	5760.00	---	---
	Ant1	5785	25.56	5772.56	5798.12	---	---
	Ant2	5785	27.52	5771.92	5799.44	---	---
	Ant1	5825	25.68	5812.00	5837.68	---	---
	Ant2	5825	28.04	5811.96	5840.00	---	---
11N40MIMO	Ant1	5190	42.08	5169.12	5211.20	---	---
	Ant2	5190	41.92	5169.20	5211.12	---	---
	Ant1	5230	42.16	5209.12	5251.28	---	---
	Ant2	5230	42.08	5209.04	5251.12	---	---
	Ant1	5755	41.84	5734.12	5775.96	---	---
	Ant2	5755	42.00	5734.04	5776.04	---	---
	Ant1	5795	41.92	5774.04	5815.96	---	---
	Ant2	5795	41.76	5774.20	5815.96	---	---
11AC20MIMO	Ant1	5180	26.92	5166.48	5193.40	---	---
	Ant2	5180	26.68	5166.28	5192.96	---	---
	Ant1	5220	25.28	5207.92	5233.20	---	---
	Ant2	5220	26.48	5206.52	5233.00	---	---
	Ant1	5240	24.96	5228.08	5253.04	---	---
	Ant2	5240	25.72	5226.80	5252.52	---	---
	Ant1	5745	26.20	5732.00	5758.20	---	---
	Ant2	5745	28.32	5731.84	5760.16	---	---
	Ant1	5785	25.36	5772.76	5798.12	---	---
	Ant2	5785	28.16	5771.84	5800.00	---	---
	Ant1	5825	25.84	5812.40	5838.24	---	---
	Ant2	5825	27.48	5811.96	5839.44	---	---
11AC40MIMO	Ant1	5190	41.84	5169.20	5211.04	---	---
	Ant2	5190	41.76	5169.12	5210.88	---	---
	Ant1	5230	41.84	5209.20	5251.04	---	---
	Ant2	5230	42.08	5209.12	5251.20	---	---
	Ant1	5755	41.84	5734.20	5776.04	---	---
	Ant2	5755	41.84	5734.12	5775.96	---	---
	Ant1	5795	41.76	5774.20	5815.96	---	---
	Ant2	5795	41.76	5774.28	5816.04	---	---
11AC80MIMO	Ant1	5210	82.72	5169.20	5251.92	---	---
	Ant2	5210	125.92	5139.12	5265.04	---	---
	Ant1	5775	83.04	5733.24	5816.28	---	---
	Ant2	5775	83.84	5733.56	5817.40	---	---

Test Results: Occupied channel bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.103	5171.5285	5188.6314	---	---
	Ant2	5180	17.303	5171.4086	5188.7113	---	---
	Ant1	5220	17.063	5211.5684	5228.6314	---	---
	Ant2	5220	17.223	5211.4486	5228.6713	---	---
	Ant1	5240	17.023	5231.6084	5248.6314	---	---
	Ant2	5240	17.223	5231.4486	5248.6713	---	---
	Ant1	5745	17.063	5736.5684	5753.6314	---	---
	Ant2	5745	17.263	5736.4885	5753.7512	---	---
	Ant1	5785	17.143	5776.5285	5793.6713	---	---
	Ant2	5785	17.223	5776.5285	5793.7512	---	---
	Ant1	5825	17.183	5816.4885	5833.6713	---	---
	Ant2	5825	17.223	5816.4486	5833.6713	---	---
11N20MIMO	Ant1	5180	18.342	5170.9291	5189.2707	---	---
	Ant2	5180	18.501	5170.8092	5189.3107	---	---
	Ant1	5220	18.302	5210.9690	5229.2707	---	---
	Ant2	5220	18.302	5210.9690	5229.2707	---	---
	Ant1	5240	18.142	5231.0490	5249.1908	---	---
	Ant2	5240	18.302	5230.9291	5249.2308	---	---
	Ant1	5745	18.302	5735.9690	5754.2707	---	---
	Ant2	5745	18.262	5736.0090	5754.2707	---	---
	Ant1	5785	18.222	5776.0090	5794.2308	---	---
	Ant2	5785	18.302	5776.0090	5794.3107	---	---
	Ant1	5825	18.302	5815.9291	5834.2308	---	---
	Ant2	5825	18.222	5816.0090	5834.2308	---	---
11N40MIMO	Ant1	5190	36.523	5171.9381	5208.4615	---	---
	Ant2	5190	36.444	5171.7782	5208.2218	---	---
	Ant1	5230	36.603	5211.9381	5248.5415	---	---
	Ant2	5230	36.523	5211.7782	5248.3017	---	---
	Ant1	5755	36.603	5736.8581	5773.4615	---	---
	Ant2	5755	36.523	5736.8581	5773.3816	---	---
	Ant1	5795	36.523	5776.8581	5813.3816	---	---
	Ant2	5795	36.364	5776.9381	5813.3017	---	---
11AC20MIMO	Ant1	5180	18.382	5170.8891	5189.2707	---	---
	Ant2	5180	18.541	5170.7692	5189.3107	---	---
	Ant1	5220	18.302	5210.9690	5229.2707	---	---
	Ant2	5220	18.262	5210.9690	5229.2308	---	---
	Ant1	5240	18.342	5231.0090	5249.3506	---	---
	Ant2	5240	18.222	5230.9690	5249.1908	---	---
	Ant1	5745	18.382	5735.9291	5754.3107	---	---
	Ant2	5745	18.302	5735.9690	5754.2707	---	---
	Ant1	5785	18.182	5776.0490	5794.2308	---	---
	Ant2	5785	18.302	5776.0090	5794.3107	---	---
	Ant1	5825	18.302	5815.9690	5834.2707	---	---
	Ant2	5825	18.222	5816.0090	5834.2308	---	---
11AC40MIMO	Ant1	5190	36.364	5171.9381	5208.3017	---	---
	Ant2	5190	36.444	5171.7782	5208.2218	---	---
	Ant1	5230	36.444	5211.9381	5248.3816	---	---
	Ant2	5230	36.523	5211.7782	5248.3017	---	---
	Ant1	5755	36.523	5736.8581	5773.3816	---	---
	Ant2	5755	36.444	5736.8581	5773.3017	---	---
	Ant1	5795	36.444	5776.9381	5813.3816	---	---
	Ant2	5795	36.523	5776.8581	5813.3816	---	---
11AC80MIMO	Ant1	5210	75.764	5172.4376	5248.2018	---	---
	Ant2	5210	76.084	5171.9580	5248.0420	---	---
	Ant1	5775	75.924	5737.1179	5813.0420	---	---
	Ant2	5775	75.764	5737.1179	5812.8821	---	---

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.

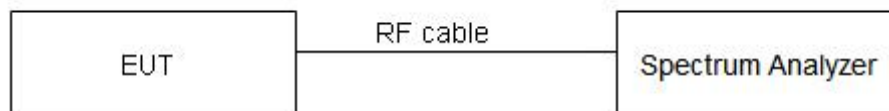
Frequency Bands/MHz	Limits
5150-5250	11dBm/MHz
5.25-5.35 GHz and 5.47-5.725 GHz	11dBm/MHz
5725-5850	30dBm/500kHz

Frequency(MHz)	Antenna Gain(dBi)		Directional gain	Limit
	Antenna 1	Antenna 2		
5150-5250	4.0	4.0	7.01	9.99dBm/MHz
5725-5825	4.0	4.0	7.01	28.99dBm/500kHz

Directional gain is to be computed as follows:
transmit signals are correlated, then

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

Test Setup:



Measurement Uncertainty:

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

Test Results:

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.11	≤ 9.99	PASS
	Ant2	5180	0.81	≤ 9.99	PASS
	Ant1	5220	1.29	≤ 9.99	PASS
	Ant2	5220	0.92	≤ 9.99	PASS
	Ant1	5240	1.21	≤ 9.99	PASS
	Ant2	5240	1.01	≤ 9.99	PASS
	Ant1	5745	-1.05	≤ 28.99	PASS
	Ant2	5745	-2.27	≤ 28.99	PASS
	Ant1	5785	-0.91	≤ 28.99	PASS
	Ant2	5785	-2.24	≤ 28.99	PASS
	Ant1	5825	-1.28	≤ 28.99	PASS
	Ant2	5825	-2.12	≤ 28.99	PASS
11N20MIMO	Ant1	5180	1.01	≤ 9.99	PASS
	Ant2	5180	0.09	≤ 9.99	PASS
	total	5180	3.58	≤ 9.99	PASS
	Ant1	5220	0.58	≤ 9.99	PASS
	Ant2	5220	0.65	≤ 9.99	PASS
	total	5220	3.63	≤ 9.99	PASS
	Ant1	5240	0.88	≤ 9.99	PASS
	Ant2	5240	0.48	≤ 9.99	PASS
	total	5240	3.69	≤ 9.99	PASS
	Ant1	5745	-2.24	≤ 28.99	PASS
	Ant2	5745	-2.15	≤ 28.99	PASS

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
	total	5745	0.82	≤28.99	PASS
	Ant1	5785	-1.47	≤28.99	PASS
	Ant2	5785	-1.78	≤28.99	PASS
	total	5785	1.39	≤28.99	PASS
	Ant1	5825	-0.95	≤28.99	PASS
	Ant2	5825	-2.75	≤28.99	PASS
11N40MIMO	total	5825	1.25	≤28.99	PASS
	Ant1	5190	-1.73	≤9.99	PASS
	Ant2	5190	-2.34	≤9.99	PASS
	total	5190	0.99	≤9.99	PASS
	Ant1	5230	-1.34	≤9.99	PASS
	Ant2	5230	-2.42	≤9.99	PASS
	total	5230	1.16	≤9.99	PASS
	Ant1	5755	-3.90	≤28.99	PASS
	Ant2	5755	-5.52	≤28.99	PASS
	total	5755	-1.62	≤28.99	PASS
	Ant1	5795	-4.03	≤28.99	PASS
	Ant2	5795	-5.05	≤28.99	PASS
11AC20MIMO	total	5795	-1.50	≤28.99	PASS
	Ant1	5180	1.12	≤9.99	PASS
	Ant2	5180	-0.10	≤9.99	PASS
	total	5180	3.56	≤9.99	PASS
	Ant1	5220	0.64	≤9.99	PASS
	Ant2	5220	0.48	≤9.99	PASS
	total	5220	3.57	≤9.99	PASS
	Ant1	5240	1.99	≤9.99	PASS
	Ant2	5240	0.51	≤9.99	PASS
	total	5240	4.32	≤9.99	PASS
	Ant1	5745	-2.08	≤28.99	PASS
	Ant2	5745	-2.08	≤28.99	PASS
	total	5745	0.93	≤28.99	PASS
	Ant1	5785	-1.45	≤28.99	PASS
	Ant2	5785	-4.00	≤28.99	PASS
	total	5785	0.47	≤28.99	PASS
	Ant1	5825	-1.50	≤28.99	PASS
	Ant2	5825	-4.77	≤28.99	PASS
	total	5825	0.18	≤28.99	PASS
11AC40MIMO	Ant1	5190	-1.67	≤9.99	PASS
	Ant2	5190	-2.35	≤9.99	PASS
	total	5190	1.01	≤9.99	PASS
	Ant1	5230	-1.30	≤9.99	PASS
	Ant2	5230	-2.42	≤9.99	PASS
	total	5230	1.19	≤9.99	PASS
	Ant1	5755	-3.72	≤28.99	PASS
	Ant2	5755	-5.74	≤28.99	PASS
	total	5755	-1.60	≤28.99	PASS
	Ant1	5795	-4.52	≤28.99	PASS
	Ant2	5795	-6.70	≤28.99	PASS
	total	5795	-2.46	≤28.99	PASS
11AC80MIMO	Ant1	5210	-4.76	≤9.99	PASS
	Ant2	5210	-5.34	≤9.99	PASS
	total	5210	-2.03	≤9.99	PASS
	Ant1	5775	-8.23	≤28.99	PASS
	Ant2	5775	-9.44	≤28.99	PASS
	total	5775	-5.78	≤28.99	PASS

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 than 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

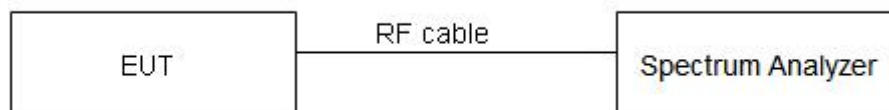
Unless otherwise specified, these tests shall be made at ambient room temperature (+15 °C to +25 °C). An antenna shall be connected to the antenna output terminals of the EUT if possible. If the EUT is equipped with or uses an adjustable-length antenna, then it shall be fully extended.

- 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:

TestMode	Antenna	Channel	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11A	Ant1	5180	NV	NT	60000.00	11.583012	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
	Ant2	5180	NV	NT	60000.00	11.583012	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
	Ant1	5220	NV	NT	60000.00	11.494253	20	PASS
			LV	NT	60000.00	11.494253	20	PASS
			HV	NT	60000.00	11.494253	20	PASS
	Ant2	5220	NV	NT	60000.00	11.494253	20	PASS
			LV	NT	80000.00	15.325670	20	PASS
			HV	NT	60000.00	11.494253	20	PASS
	Ant1	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant2	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant1	5745	NV	NT	80000.00	13.925152	20	PASS
			LV	NT	80000.00	13.925152	20	PASS
			HV	NT	80000.00	13.925152	20	PASS
	Ant2	5745	NV	NT	60000.00	10.443864	20	PASS
			LV	NT	60000.00	10.443864	20	PASS
			HV	NT	80000.00	13.925152	20	PASS
	Ant1	5785	NV	NT	80000.00	13.828868	20	PASS
			LV	NT	80000.00	13.828868	20	PASS
			HV	NT	80000.00	13.828868	20	PASS
	Ant2	5785	NV	NT	80000.00	13.828868	20	PASS
			LV	NT	80000.00	13.828868	20	PASS
			HV	NT	60000.00	10.371651	20	PASS
	Ant1	5825	NV	NT	80000.00	13.733906	20	PASS
			LV	NT	80000.00	13.733906	20	PASS
			HV	NT	60000.00	10.300429	20	PASS
	Ant2	5825	NV	NT	60000.00	10.300429	20	PASS
			LV	NT	80000.00	13.733906	20	PASS
			HV	NT	60000.00	10.300429	20	PASS
11N20MIM O	Ant1	5180	NV	NT	60000.00	11.583012	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	80000.00	15.444015	20	PASS
	Ant2	5180	NV	NT	60000.00	11.583012	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
	Ant1	5220	NV	NT	60000.00	11.494253	20	PASS
			LV	NT	80000.00	15.325670	20	PASS
			HV	NT	80000.00	15.325670	20	PASS
	Ant2	5220	NV	NT	80000.00	15.325670	20	PASS
			LV	NT	60000.00	11.494253	20	PASS
			HV	NT	60000.00	11.494253	20	PASS
	Ant1	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	80000.00	15.267176	20	PASS
			HV	NT	80000.00	15.267176	20	PASS
	Ant2	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant1	5745	NV	NT	60000.00	10.443864	20	PASS
			LV	NT	80000.00	13.925152	20	PASS
			HV	NT	80000.00	13.925152	20	PASS
	Ant2	5745	NV	NT	60000.00	10.443864	20	PASS
			LV	NT	80000.00	13.925152	20	PASS

TestMode	Antenna	Channel	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant1	5785	HV	NT	80000.00	13.925152	20	PASS
			NV	NT	60000.00	10.371651	20	PASS
			LV	NT	80000.00	13.828868	20	PASS
			HV	NT	80000.00	13.828868	20	PASS
	Ant2	5785	NV	NT	80000.00	13.828868	20	PASS
			LV	NT	80000.00	13.828868	20	PASS
			HV	NT	80000.00	13.828868	20	PASS
			NV	NT	80000.00	13.733906	20	PASS
	Ant1	5825	LV	NT	60000.00	10.300429	20	PASS
			HV	NT	80000.00	13.733906	20	PASS
			NV	NT	60000.00	10.300429	20	PASS
			LV	NT	80000.00	13.733906	20	PASS
11N40MIM O	Ant1	5190	NV	NT	80000.00	15.414258	20	PASS
			LV	NT	80000.00	15.414258	20	PASS
			HV	NT	80000.00	15.414258	20	PASS
	Ant2	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	80000.00	15.414258	20	PASS
	Ant1	5230	NV	NT	80000.00	15.296367	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	80000.00	15.296367	20	PASS
	Ant2	5230	NV	NT	80000.00	15.296367	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	80000.00	15.296367	20	PASS
	Ant1	5755	NV	NT	80000.00	13.900956	20	PASS
			LV	NT	80000.00	13.900956	20	PASS
			HV	NT	80000.00	13.900956	20	PASS
	Ant2	5755	NV	NT	80000.00	13.900956	20	PASS
			LV	NT	80000.00	13.900956	20	PASS
			HV	NT	80000.00	13.900956	20	PASS
	Ant1	5795	NV	NT	80000.00	13.805004	20	PASS
			LV	NT	80000.00	13.805004	20	PASS
			HV	NT	80000.00	13.805004	20	PASS
	Ant2	5795	NV	NT	75000.00	12.942192	20	PASS
			LV	NT	50000.00	8.628128	20	PASS
			HV	NT	75000.00	12.942192	20	PASS
11AC20MI MO	Ant1	5180	NV	NT	60000.00	11.583012	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
	Ant2	5180	NV	NT	60000.00	11.583012	20	PASS
			LV	NT	60000.00	11.583012	20	PASS
			HV	NT	60000.00	11.583012	20	PASS
	Ant1	5220	NV	NT	60000.00	11.494253	20	PASS
			LV	NT	80000.00	15.325670	20	PASS
			HV	NT	60000.00	11.494253	20	PASS
	Ant2	5220	NV	NT	60000.00	11.494253	20	PASS
			LV	NT	80000.00	15.325670	20	PASS
			HV	NT	80000.00	15.325670	20	PASS
	Ant1	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant2	5240	NV	NT	60000.00	11.450382	20	PASS
			LV	NT	60000.00	11.450382	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
	Ant1	5745	NV	NT	80000.00	13.925152	20	PASS
			LV	NT	80000.00	13.925152	20	PASS
			HV	NT	80000.00	13.925152	20	PASS
	Ant2	5745	NV	NT	80000.00	13.925152	20	PASS
			LV	NT	80000.00	13.925152	20	PASS
			HV	NT	80000.00	13.925152	20	PASS

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	Ant1	5785	NV	NT	80000.00	13.828868	20	PASS
			LV	NT	80000.00	13.828868	20	PASS
			HV	NT	80000.00	13.828868	20	PASS
	Ant2	5785	NV	NT	80000.00	13.828868	20	PASS
			LV	NT	100000.00	17.286085	20	PASS
			HV	NT	100000.00	17.286085	20	PASS
	Ant1	5825	NV	NT	80000.00	13.733906	20	PASS
			LV	NT	80000.00	13.733906	20	PASS
			HV	NT	80000.00	13.733906	20	PASS
	Ant2	5825	NV	NT	80000.00	13.733906	20	PASS
			LV	NT	80000.00	13.733906	20	PASS
			HV	NT	80000.00	13.733906	20	PASS
11AC40MI MO	Ant1	5190	NV	NT	80000.00	15.414258	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
	Ant2	5190	NV	NT	80000.00	15.414258	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	80000.00	15.414258	20	PASS
	Ant1	5230	NV	NT	80000.00	15.296367	20	PASS
			LV	NT	80000.00	15.296367	20	PASS
			HV	NT	80000.00	15.296367	20	PASS
	Ant2	5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
	Ant1	5755	NV	NT	60000.00	10.425717	20	PASS
			LV	NT	90000.00	15.638575	20	PASS
			HV	NT	90000.00	15.638575	20	PASS
	Ant2	5755	NV	NT	80000.00	13.900956	20	PASS
			LV	NT	40000.00	6.950478	20	PASS
			HV	NT	40000.00	6.950478	20	PASS
	Ant1	5795	NV	NT	80000.00	13.805004	20	PASS
			LV	NT	80000.00	13.805004	20	PASS
			HV	NT	80000.00	13.805004	20	PASS
	Ant2	5795	NV	NT	90000.00	15.530630	20	PASS
			LV	NT	90000.00	15.530630	20	PASS
			HV	NT	60000.00	10.353753	20	PASS
11AC80MI MO	Ant1	5210	NV	NT	50000.00	9.596929	20	PASS
			LV	NT	50000.00	9.596929	20	PASS
			HV	NT	100000.00	19.193858	20	PASS
	Ant2	5210	NV	NT	50000.00	9.596929	20	PASS
			LV	NT	50000.00	9.596929	20	PASS
			HV	NT	50000.00	9.596929	20	PASS
	Ant1	5775	NV	NT	50000.00	8.658009	20	PASS
			LV	NT	50000.00	8.658009	20	PASS
			HV	NT	50000.00	8.658009	20	PASS
	Ant2	5775	NV	NT	100000.00	17.316017	20	PASS
			LV	NT	100000.00	17.316017	20	PASS
			HV	NT	50000.00	8.658009	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	60000.00	11.583012	20	PASS
			NV	-20	60000.00	11.583012	20	PASS
			NV	-10	80000.00	15.444015	20	PASS
			NV	0	80000.00	15.444015	20	PASS
			NV	10	60000.00	11.583012	20	PASS
			NV	20	60000.00	11.583012	20	PASS
			NV	30	60000.00	11.583012	20	PASS

TestMode	Antenna	Channel	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
	Ant2	5180	NV	40	60000.00	11.583012	20	PASS
			NV	50	60000.00	11.583012	20	PASS
			NV	-30	60000.00	11.583012	20	PASS
			NV	-20	60000.00	11.583012	20	PASS
			NV	-10	60000.00	11.583012	20	PASS
			NV	0	60000.00	11.583012	20	PASS
			NV	10	60000.00	11.583012	20	PASS
			NV	20	60000.00	11.583012	20	PASS
			NV	30	60000.00	11.583012	20	PASS
			NV	40	60000.00	11.583012	20	PASS
	Ant1	5220	NV	50	60000.00	11.583012	20	PASS
			NV	-30	80000.00	15.325670	20	PASS
			NV	-20	60000.00	11.494253	20	PASS
			NV	-10	60000.00	11.494253	20	PASS
			NV	0	60000.00	11.494253	20	PASS
			NV	10	60000.00	11.494253	20	PASS
			NV	20	60000.00	11.494253	20	PASS
			NV	30	60000.00	11.494253	20	PASS
			NV	40	60000.00	11.494253	20	PASS
			NV	50	60000.00	11.494253	20	PASS
	Ant2	5220	NV	-30	60000.00	11.494253	20	PASS
			NV	-20	60000.00	11.494253	20	PASS
			NV	-10	80000.00	15.325670	20	PASS
			NV	0	60000.00	11.494253	20	PASS
			NV	10	60000.00	11.494253	20	PASS
			NV	20	60000.00	11.494253	20	PASS
			NV	30	60000.00	11.494253	20	PASS
			NV	40	60000.00	11.494253	20	PASS
			NV	50	60000.00	11.494253	20	PASS
	Ant1	5240	NV	-30	60000.00	11.450382	20	PASS
			NV	-20	60000.00	11.450382	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
			NV	20	60000.00	11.450382	20	PASS
			NV	30	80000.00	15.267176	20	PASS
			NV	40	60000.00	11.450382	20	PASS
			NV	50	60000.00	11.450382	20	PASS
	Ant2	5240	NV	-30	60000.00	11.450382	20	PASS
			NV	-20	60000.00	11.450382	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
			NV	20	60000.00	11.450382	20	PASS
			NV	30	60000.00	11.450382	20	PASS
			NV	40	80000.00	15.267176	20	PASS
			NV	50	60000.00	11.450382	20	PASS
	Ant1	5745	NV	-30	60000.00	10.443864	20	PASS
			NV	-20	60000.00	10.443864	20	PASS
			NV	-10	80000.00	13.925152	20	PASS
			NV	0	80000.00	13.925152	20	PASS
			NV	10	80000.00	13.925152	20	PASS
			NV	20	60000.00	10.443864	20	PASS
			NV	30	60000.00	10.443864	20	PASS
			NV	40	80000.00	13.925152	20	PASS
			NV	50	80000.00	13.925152	20	PASS
	Ant2	5745	NV	-30	80000.00	13.925152	20	PASS
			NV	-20	80000.00	13.925152	20	PASS
			NV	-10	80000.00	13.925152	20	PASS
			NV	0	80000.00	13.925152	20	PASS
			NV	10	80000.00	13.925152	20	PASS

TestMode	Antenna	Channel	Temperature					
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			NV	20	60000.00	10.443864	20	PASS
			NV	30	80000.00	13.925152	20	PASS
			NV	40	80000.00	13.925152	20	PASS
			NV	50	80000.00	13.925152	20	PASS
	Ant1	5785	NV	-30	60000.00	10.371651	20	PASS
			NV	-20	80000.00	13.828868	20	PASS
			NV	-10	80000.00	13.828868	20	PASS
			NV	0	80000.00	13.828868	20	PASS
			NV	10	80000.00	13.828868	20	PASS
			NV	20	60000.00	10.371651	20	PASS
			NV	30	80000.00	13.828868	20	PASS
			NV	40	80000.00	13.828868	20	PASS
			NV	50	80000.00	13.828868	20	PASS
	Ant2	5785	NV	-30	60000.00	10.371651	20	PASS
			NV	-20	80000.00	13.828868	20	PASS
			NV	-10	80000.00	13.828868	20	PASS
			NV	0	80000.00	13.828868	20	PASS
			NV	10	80000.00	13.828868	20	PASS
			NV	20	80000.00	13.828868	20	PASS
			NV	30	80000.00	13.828868	20	PASS
			NV	40	60000.00	10.371651	20	PASS
	Ant1	5825	NV	50	60000.00	10.371651	20	PASS
			NV	-30	80000.00	13.733906	20	PASS
			NV	-20	80000.00	13.733906	20	PASS
			NV	-10	80000.00	13.733906	20	PASS
			NV	0	80000.00	13.733906	20	PASS
			NV	10	80000.00	13.733906	20	PASS
			NV	20	80000.00	13.733906	20	PASS
			NV	30	80000.00	13.733906	20	PASS
	Ant2	5825	NV	40	80000.00	13.733906	20	PASS
			NV	50	60000.00	10.300429	20	PASS
			NV	-30	80000.00	13.733906	20	PASS
			NV	-20	80000.00	13.733906	20	PASS
			NV	-10	80000.00	13.733906	20	PASS
			NV	0	80000.00	13.733906	20	PASS
			NV	10	80000.00	13.733906	20	PASS
			NV	20	80000.00	13.733906	20	PASS
11N20MIM O	Ant1	5180	NV	30	80000.00	13.733906	20	PASS
			NV	40	60000.00	10.300429	20	PASS
			NV	50	80000.00	13.733906	20	PASS
			NV	-30	80000.00	11.583012	20	PASS
			NV	-20	60000.00	11.583012	20	PASS
			NV	-10	60000.00	11.583012	20	PASS
			NV	0	60000.00	11.583012	20	PASS
			NV	10	60000.00	11.583012	20	PASS
	Ant2	5180	NV	20	60000.00	11.583012	20	PASS
			NV	30	60000.00	11.583012	20	PASS
			NV	40	60000.00	11.583012	20	PASS
			NV	50	80000.00	15.444015	20	PASS
			NV	-30	60000.00	11.583012	20	PASS
			NV	-20	60000.00	11.583012	20	PASS
			NV	-10	60000.00	11.583012	20	PASS
			NV	0	60000.00	11.583012	20	PASS
	Ant1	5220	NV	10	60000.00	11.583012	20	PASS
			NV	20	60000.00	11.583012	20	PASS
			NV	30	60000.00	11.583012	20	PASS
			NV	40	60000.00	11.583012	20	PASS
			NV	50	60000.00	11.583012	20	PASS
			NV	-30	80000.00	15.325670	20	PASS
			NV	-20	80000.00	15.325670	20	PASS
			NV	-10	60000.00	11.494253	20	PASS

TestMode	Antenna	Channel	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	0	80000.00	15.325670	20	PASS
			NV	10	60000.00	11.494253	20	PASS
			NV	20	80000.00	15.325670	20	PASS
			NV	30	80000.00	15.325670	20	PASS
			NV	40	60000.00	11.494253	20	PASS
	Ant2	5220	NV	50	80000.00	15.325670	20	PASS
			NV	-30	60000.00	11.494253	20	PASS
			NV	-20	60000.00	11.494253	20	PASS
			NV	-10	60000.00	11.494253	20	PASS
			NV	0	60000.00	11.494253	20	PASS
			NV	10	60000.00	11.494253	20	PASS
			NV	20	60000.00	11.494253	20	PASS
			NV	30	60000.00	11.494253	20	PASS
	Ant1	5240	NV	40	60000.00	11.494253	20	PASS
			NV	50	80000.00	15.325670	20	PASS
			NV	-30	60000.00	11.450382	20	PASS
			NV	-20	80000.00	15.267176	20	PASS
			NV	-10	80000.00	15.267176	20	PASS
			NV	0	80000.00	15.267176	20	PASS
			NV	10	80000.00	15.267176	20	PASS
			NV	20	80000.00	15.267176	20	PASS
	Ant2	5240	NV	30	80000.00	15.267176	20	PASS
			NV	40	80000.00	15.267176	20	PASS
			NV	50	80000.00	15.267176	20	PASS
			NV	-30	80000.00	15.267176	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
	Ant1	5745	NV	20	60000.00	11.450382	20	PASS
			NV	30	60000.00	11.450382	20	PASS
			NV	40	60000.00	11.450382	20	PASS
			NV	50	40000.00	7.633588	20	PASS
			NV	-30	60000.00	10.443864	20	PASS
			NV	-20	80000.00	13.925152	20	PASS
			NV	-10	80000.00	13.925152	20	PASS
			NV	0	80000.00	13.925152	20	PASS
	Ant2	5745	NV	10	80000.00	13.925152	20	PASS
			NV	20	60000.00	10.443864	20	PASS
			NV	30	80000.00	13.925152	20	PASS
			NV	40	60000.00	10.443864	20	PASS
			NV	50	80000.00	13.925152	20	PASS
			NV	-30	80000.00	13.925152	20	PASS
			NV	-20	80000.00	13.925152	20	PASS
			NV	-10	80000.00	13.925152	20	PASS
	Ant1	5785	NV	0	80000.00	13.925152	20	PASS
			NV	10	80000.00	13.925152	20	PASS
			NV	20	80000.00	13.925152	20	PASS
			NV	30	60000.00	10.443864	20	PASS
			NV	40	80000.00	13.925152	20	PASS
			NV	50	80000.00	13.925152	20	PASS
			NV	-30	80000.00	13.828868	20	PASS
			NV	-20	80000.00	13.828868	20	PASS
	Ant2	5785	NV	-10	60000.00	10.371651	20	PASS
			NV	0	80000.00	13.828868	20	PASS
	Ant1	5785	NV	10	80000.00	13.828868	20	PASS
			NV	20	80000.00	13.828868	20	PASS
			NV	30	80000.00	13.828868	20	PASS
			NV	40	80000.00	13.828868	20	PASS
			NV	50	80000.00	13.828868	20	PASS
			NV	-30	80000.00	13.828868	20	PASS
			NV	-20	80000.00	13.828868	20	PASS
			NV	-10	60000.00	10.371651	20	PASS

TestMode	Antenna	Channel	Temperature					
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			NV	-20	80000.00	13.828868	20	PASS
			NV	-10	80000.00	13.828868	20	PASS
			NV	0	100000.00	17.286085	20	PASS
			NV	10	60000.00	10.371651	20	PASS
			NV	20	80000.00	13.828868	20	PASS
			NV	30	60000.00	10.371651	20	PASS
			NV	40	80000.00	13.828868	20	PASS
			NV	50	80000.00	13.828868	20	PASS
	Ant1	5825	NV	-30	80000.00	13.733906	20	PASS
			NV	-20	80000.00	13.733906	20	PASS
			NV	-10	80000.00	13.733906	20	PASS
			NV	0	60000.00	10.300429	20	PASS
			NV	10	80000.00	13.733906	20	PASS
			NV	20	80000.00	13.733906	20	PASS
			NV	30	80000.00	13.733906	20	PASS
			NV	40	60000.00	10.300429	20	PASS
			NV	50	80000.00	13.733906	20	PASS
	Ant2	5825	NV	-30	80000.00	13.733906	20	PASS
			NV	-20	80000.00	13.733906	20	PASS
			NV	-10	80000.00	13.733906	20	PASS
			NV	0	80000.00	13.733906	20	PASS
			NV	10	80000.00	13.733906	20	PASS
			NV	20	80000.00	13.733906	20	PASS
			NV	30	80000.00	13.733906	20	PASS
			NV	40	80000.00	13.733906	20	PASS
11N40MIM O	Ant1	5190	NV	-30	80000.00	15.414258	20	PASS
			NV	-20	80000.00	15.414258	20	PASS
			NV	-10	80000.00	15.414258	20	PASS
			NV	0	80000.00	15.414258	20	PASS
			NV	10	80000.00	15.414258	20	PASS
			NV	20	80000.00	15.414258	20	PASS
			NV	30	80000.00	15.414258	20	PASS
			NV	40	80000.00	15.414258	20	PASS
			NV	50	80000.00	15.414258	20	PASS
	Ant2	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	80000.00	15.414258	20	PASS
			NV	0	80000.00	15.414258	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	80000.00	15.414258	20	PASS
	Ant1	5230	NV	-30	80000.00	15.296367	20	PASS
			NV	-20	80000.00	15.296367	20	PASS
			NV	-10	80000.00	15.296367	20	PASS
			NV	0	80000.00	15.296367	20	PASS
			NV	10	80000.00	15.296367	20	PASS
			NV	20	80000.00	15.296367	20	PASS
			NV	30	80000.00	15.296367	20	PASS
			NV	40	80000.00	15.296367	20	PASS
			NV	50	80000.00	15.296367	20	PASS
	Ant2	5230	NV	-30	80000.00	15.296367	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	80000.00	15.296367	20	PASS
			NV	10	80000.00	15.296367	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	80000.00	15.296367	20	PASS
			NV	40	80000.00	15.296367	20	PASS

TestMode	Antenna	Channel	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	50	40000.00	7.648184	20	PASS
	Ant1	5755	NV	-30	80000.00	13.900956	20	PASS
			NV	-20	80000.00	13.900956	20	PASS
			NV	-10	80000.00	13.900956	20	PASS
			NV	0	80000.00	13.900956	20	PASS
			NV	10	80000.00	13.900956	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	40000.00	6.950478	20	PASS
			NV	40	80000.00	13.900956	20	PASS
			NV	50	80000.00	13.900956	20	PASS
	Ant2	5755	NV	-30	80000.00	13.900956	20	PASS
			NV	-20	80000.00	13.900956	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	80000.00	13.900956	20	PASS
			NV	10	80000.00	13.900956	20	PASS
			NV	20	80000.00	13.900956	20	PASS
			NV	30	80000.00	13.900956	20	PASS
			NV	40	80000.00	13.900956	20	PASS
			NV	50	80000.00	13.900956	20	PASS
	Ant1	5795	NV	-30	80000.00	13.805004	20	PASS
			NV	-20	80000.00	13.805004	20	PASS
			NV	-10	80000.00	13.805004	20	PASS
			NV	0	80000.00	13.805004	20	PASS
			NV	10	80000.00	13.805004	20	PASS
			NV	20	80000.00	13.805004	20	PASS
			NV	30	80000.00	13.805004	20	PASS
			NV	40	80000.00	13.805004	20	PASS
			NV	50	80000.00	13.805004	20	PASS
	Ant2	5795	NV	-30	50000.00	8.628128	20	PASS
			NV	-20	50000.00	8.628128	20	PASS
			NV	-10	75000.00	12.942192	20	PASS
			NV	0	75000.00	12.942192	20	PASS
			NV	10	50000.00	8.628128	20	PASS
			NV	20	50000.00	8.628128	20	PASS
			NV	30	50000.00	8.628128	20	PASS
			NV	40	75000.00	12.942192	20	PASS
11AC20MI MO	Ant1	5180	NV	-30	60000.00	11.583012	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	40000.00	7.722008	20	PASS
			NV	0	60000.00	11.583012	20	PASS
			NV	10	60000.00	11.583012	20	PASS
			NV	20	60000.00	11.583012	20	PASS
			NV	30	60000.00	11.583012	20	PASS
			NV	40	60000.00	11.583012	20	PASS
	Ant2	5180	NV	50	60000.00	11.583012	20	PASS
			NV	-30	60000.00	11.583012	20	PASS
			NV	-20	60000.00	11.583012	20	PASS
			NV	-10	60000.00	11.583012	20	PASS
			NV	0	60000.00	11.583012	20	PASS
			NV	10	60000.00	11.583012	20	PASS
			NV	20	60000.00	11.583012	20	PASS
			NV	30	60000.00	11.583012	20	PASS
	Ant1	5220	NV	40	60000.00	11.583012	20	PASS
			NV	50	60000.00	11.583012	20	PASS
			NV	-30	60000.00	11.494253	20	PASS
			NV	-20	60000.00	11.494253	20	PASS
			NV	-10	60000.00	11.494253	20	PASS
			NV	0	60000.00	11.494253	20	PASS
			NV	10	60000.00	11.494253	20	PASS
			NV	20	60000.00	11.494253	20	PASS

TestMode	Antenna	Channel	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
			NV	30	60000.00	11.494253	20	PASS
			NV	40	60000.00	11.494253	20	PASS
			NV	50	60000.00	11.494253	20	PASS
	Ant2	5220	NV	-30	60000.00	11.494253	20	PASS
			NV	-20	60000.00	11.494253	20	PASS
			NV	-10	60000.00	11.494253	20	PASS
			NV	0	60000.00	11.494253	20	PASS
			NV	10	60000.00	11.494253	20	PASS
			NV	20	60000.00	11.494253	20	PASS
			NV	30	60000.00	11.494253	20	PASS
			NV	40	60000.00	11.494253	20	PASS
			NV	50	40000.00	7.662835	20	PASS
	Ant1	5240	NV	-30	80000.00	15.267176	20	PASS
			NV	-20	80000.00	15.267176	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
			NV	20	60000.00	11.450382	20	PASS
			NV	30	60000.00	11.450382	20	PASS
			NV	40	60000.00	11.450382	20	PASS
	Ant2	5240	NV	50	60000.00	11.450382	20	PASS
			NV	-30	80000.00	15.267176	20	PASS
			NV	-20	60000.00	11.450382	20	PASS
			NV	-10	60000.00	11.450382	20	PASS
			NV	0	60000.00	11.450382	20	PASS
			NV	10	60000.00	11.450382	20	PASS
			NV	20	60000.00	11.450382	20	PASS
			NV	30	60000.00	11.450382	20	PASS
	Ant1	5745	NV	40	60000.00	10.443864	20	PASS
			NV	50	60000.00	11.450382	20	PASS
			NV	-30	60000.00	10.443864	20	PASS
			NV	-20	80000.00	13.925152	20	PASS
			NV	-10	60000.00	10.443864	20	PASS
			NV	0	80000.00	13.925152	20	PASS
			NV	10	60000.00	10.443864	20	PASS
			NV	20	80000.00	13.925152	20	PASS
	Ant2	5745	NV	30	80000.00	13.925152	20	PASS
			NV	40	60000.00	10.443864	20	PASS
			NV	50	60000.00	10.443864	20	PASS
			NV	-30	60000.00	10.443864	20	PASS
			NV	-20	80000.00	13.925152	20	PASS
			NV	-10	80000.00	13.925152	20	PASS
			NV	0	80000.00	13.925152	20	PASS
			NV	10	80000.00	13.925152	20	PASS
	Ant1	5785	NV	20	60000.00	10.443864	20	PASS
			NV	30	80000.00	13.925152	20	PASS
			NV	40	60000.00	10.443864	20	PASS
			NV	50	80000.00	13.925152	20	PASS
			NV	-30	80000.00	13.828868	20	PASS
			NV	-20	80000.00	13.828868	20	PASS
			NV	-10	80000.00	13.828868	20	PASS
			NV	0	80000.00	13.828868	20	PASS
	Ant2	5785	NV	10	80000.00	13.828868	20	PASS
			NV	20	80000.00	13.828868	20	PASS
			NV	30	80000.00	13.828868	20	PASS
			NV	40	80000.00	13.828868	20	PASS
	Ant1	5785	NV	50	80000.00	13.828868	20	PASS
			NV	-30	80000.00	13.828868	20	PASS
			NV	-20	80000.00	13.828868	20	PASS
			NV	-10	80000.00	13.828868	20	PASS
	Ant2	5785	NV	0	80000.00	13.828868	20	PASS
			NV	10	80000.00	13.828868	20	PASS
			NV	20	80000.00	13.828868	20	PASS
			NV	30	80000.00	13.828868	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			NV	10	100000.00	17.286085	20	PASS
			NV	20	80000.00	13.828868	20	PASS
			NV	30	80000.00	13.828868	20	PASS
			NV	40	100000.00	17.286085	20	PASS
			NV	50	80000.00	13.828868	20	PASS
	Ant1	5825	NV	-30	80000.00	13.733906	20	PASS
			NV	-20	80000.00	13.733906	20	PASS
			NV	-10	60000.00	10.300429	20	PASS
			NV	0	80000.00	13.733906	20	PASS
			NV	10	80000.00	13.733906	20	PASS
			NV	20	60000.00	10.300429	20	PASS
			NV	30	60000.00	10.300429	20	PASS
			NV	40	80000.00	13.733906	20	PASS
	Ant2	5825	NV	50	60000.00	10.300429	20	PASS
			NV	-30	60000.00	10.300429	20	PASS
			NV	-20	80000.00	13.733906	20	PASS
			NV	-10	80000.00	13.733906	20	PASS
			NV	0	80000.00	13.733906	20	PASS
			NV	10	80000.00	13.733906	20	PASS
			NV	20	60000.00	10.300429	20	PASS
11AC40MI MO	Ant1	5190	NV	30	80000.00	13.733906	20	PASS
			NV	40	80000.00	13.733906	20	PASS
			NV	50	80000.00	13.733906	20	PASS
			NV	-30	80000.00	15.414258	20	PASS
			NV	-20	80000.00	15.414258	20	PASS
			NV	-10	80000.00	15.414258	20	PASS
			NV	0	80000.00	15.414258	20	PASS
			NV	10	80000.00	15.414258	20	PASS
	Ant2	5190	NV	20	80000.00	15.414258	20	PASS
			NV	30	80000.00	15.414258	20	PASS
			NV	40	80000.00	15.414258	20	PASS
			NV	50	80000.00	15.414258	20	PASS
			NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	80000.00	15.414258	20	PASS
			NV	0	40000.00	7.707129	20	PASS
	Ant1	5230	NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	80000.00	15.414258	20	PASS
			NV	40	80000.00	15.414258	20	PASS
NV			50	80000.00	15.414258	20	PASS	
NV			-30	80000.00	15.296367	20	PASS	
NV			-20	80000.00	15.296367	20	PASS	
NV			-10	80000.00	15.296367	20	PASS	
Ant2	5230	NV	0	40000.00	7.648184	20	PASS	
		NV	10	80000.00	15.296367	20	PASS	
		NV	20	40000.00	7.648184	20	PASS	
		NV	30	80000.00	15.296367	20	PASS	
		NV	40	40000.00	7.648184	20	PASS	
		NV	50	80000.00	15.296367	20	PASS	
		NV	-30	80000.00	15.296367	20	PASS	
		NV	-20	40000.00	7.648184	20	PASS	
Ant1	5755	NV	-10	40000.00	7.648184	20	PASS	
		NV	0	40000.00	7.648184	20	PASS	
	Ant2	5755	NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
	Ant1	5755	NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
	Ant2	5755	NV	50	80000.00	15.296367	20	PASS
			NV	-30	60000.00	10.425717	20	PASS
	Ant1	5755	NV	-20	90000.00	15.638575	20	PASS
			NV	-20	90000.00	15.638575	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			NV	-10	90000.00	15.638575	20	PASS
			NV	0	90000.00	15.638575	20	PASS
			NV	10	60000.00	10.425717	20	PASS
			NV	20	90000.00	15.638575	20	PASS
			NV	30	60000.00	10.425717	20	PASS
			NV	40	60000.00	10.425717	20	PASS
			NV	50	60000.00	10.425717	20	PASS
	Ant2	5755	NV	-30	80000.00	13.900956	20	PASS
			NV	-20	80000.00	13.900956	20	PASS
			NV	-10	80000.00	13.900956	20	PASS
			NV	0	80000.00	13.900956	20	PASS
			NV	10	80000.00	13.900956	20	PASS
			NV	20	80000.00	13.900956	20	PASS
			NV	30	80000.00	13.900956	20	PASS
			NV	40	80000.00	13.900956	20	PASS
			NV	50	80000.00	13.900956	20	PASS
			NV	-30	80000.00	13.805004	20	PASS
			NV	-20	80000.00	13.805004	20	PASS
			NV	-10	120000.00	20.707506	20	FAIL
			NV	0	80000.00	13.805004	20	PASS
			NV	10	80000.00	13.805004	20	PASS
	Ant1	5795	NV	20	80000.00	13.805004	20	PASS
			NV	30	80000.00	13.805004	20	PASS
			NV	40	80000.00	13.805004	20	PASS
			NV	50	80000.00	13.805004	20	PASS
			NV	-30	60000.00	10.353753	20	PASS
			NV	-20	60000.00	10.353753	20	PASS
			NV	-10	60000.00	10.353753	20	PASS
	Ant2	5795	NV	0	90000.00	15.530630	20	PASS
			NV	10	90000.00	15.530630	20	PASS
			NV	20	90000.00	15.530630	20	PASS
NV			30	60000.00	10.353753	20	PASS	
NV			40	60000.00	10.353753	20	PASS	
NV			50	90000.00	15.530630	20	PASS	
11AC80MI MO			Ant1	5210	NV	-30	50000.00	9.596929
	NV	-20			50000.00	9.596929	20	PASS
	NV	-10			50000.00	9.596929	20	PASS
	NV	0			50000.00	9.596929	20	PASS
	NV	10			50000.00	9.596929	20	PASS
	NV	20			50000.00	9.596929	20	PASS
	NV	30			50000.00	9.596929	20	PASS
			NV	40	50000.00	9.596929	20	PASS
			NV	50	50000.00	9.596929	20	PASS
			NV	-30	50000.00	9.596929	20	PASS
			NV	-20	50000.00	9.596929	20	PASS
			NV	-10	50000.00	9.596929	20	PASS
			NV	0	50000.00	9.596929	20	PASS
			NV	10	50000.00	9.596929	20	PASS
	Ant2	5210	NV	20	50000.00	9.596929	20	PASS
			NV	30	50000.00	9.596929	20	PASS
			NV	40	50000.00	9.596929	20	PASS
			NV	50	50000.00	9.596929	20	PASS
			NV	-30	100000.00	17.316017	20	PASS
			NV	-20	50000.00	8.658009	20	PASS
			NV	-10	50000.00	8.658009	20	PASS
Ant1	5775	NV	0	50000.00	8.658009	20	PASS	
		NV	10	50000.00	8.658009	20	PASS	
		NV	20	50000.00	8.658009	20	PASS	
		NV	30	50000.00	8.658009	20	PASS	
		NV	40	50000.00	8.658009	20	PASS	
		NV	50	50000.00	8.658009	20	PASS	
		NV	50000.00	8.658009	20	PASS		

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
	Ant2	5775	NV	-30	50000.00	8.658009	20	PASS
			NV	-20	50000.00	8.658009	20	PASS
			NV	-10	50000.00	8.658009	20	PASS
			NV	0	50000.00	8.658009	20	PASS
			NV	10	50000.00	8.658009	20	PASS
			NV	20	50000.00	8.658009	20	PASS
			NV	30	50000.00	8.658009	20	PASS
			NV	40	50000.00	8.658009	20	PASS
			NV	50	50000.00	8.658009	20	PASS

5.7 Dynamic Frequency Selection (DFS)

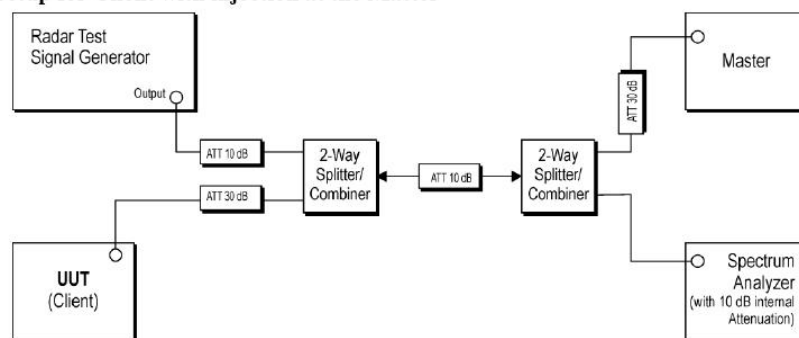
Ambient condition:

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

5.7.1 DFS detection threshold level

Test Setup:

Setup for Client with injection at the Master



Test Results:

Not required

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

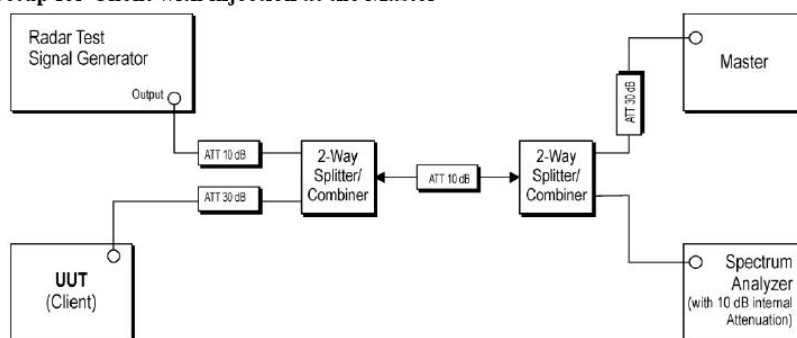
Limits:

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:

Setup for Client with injection at the Master



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.

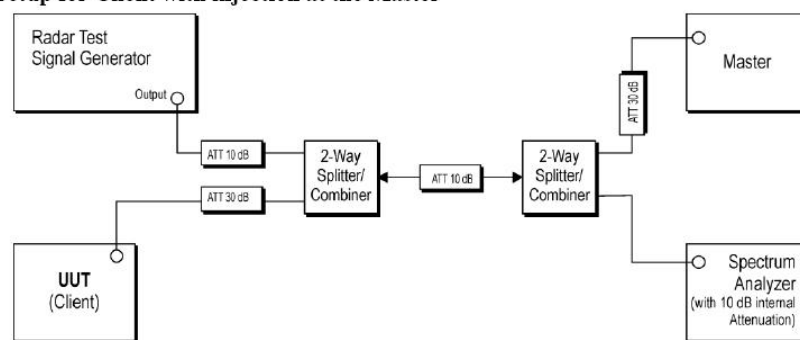
Refer as FCC 06-96 Appendix, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.

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.

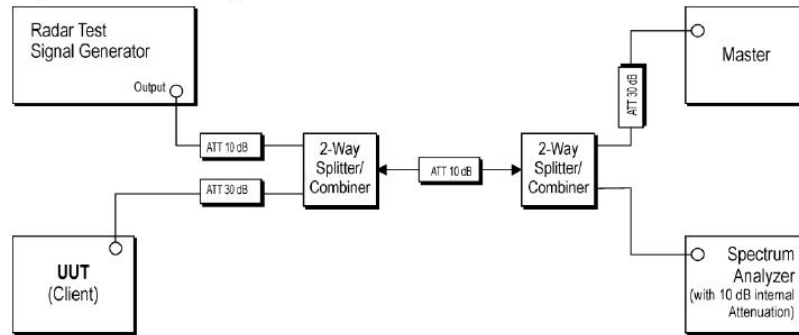
Refer as KDB905462 D02 UNII DFS Compliance Procedures New Rules v02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 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:

Not required

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:

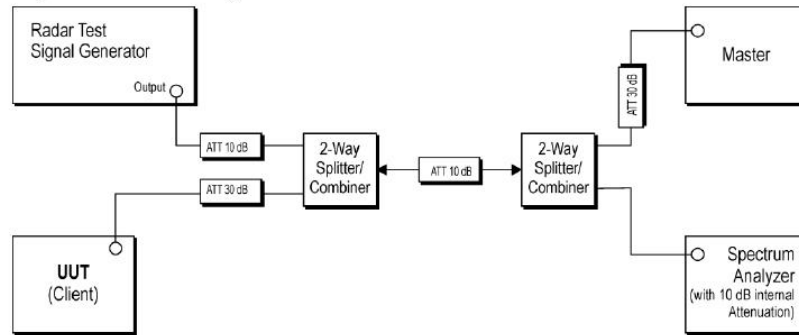
$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

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

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

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	CRTDSWKS4 4301	/	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	2027/02/01
Spectrum Analyzer	N9010B	MY57470323	DZ-000174	KEYSIGHT	2026/01/01
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	SCHWAR ZBECK	2025/06/09
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWAR ZBECK	2025/08/03
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWAR ZBECK	2025/06/02
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	1	DZ-000186	WI	2025/12/02
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWAR ZBECK	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	/

_____ No Body Text Below _____

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”.

Address: No.3,Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China (Test location)

Post Code: 510663 Tel: 020-32293888

FAX: 020 32293889 E-mail: office@cvc.org.cn