



Test Report No.:
GJW2025-2112

TEST REPORT

FCC ID : 2AV2J-DBOX04
Applicant : Shenzhen Dangs Science Technology Co.,Ltd
Product Name : Smart Projector
Model No. : DB0X04, DB*****("*" can be 0-9,A-Z,a-z,or blank)

CVC Testing Technology Co., Ltd.

Product Name	Smart Projector	Trade Mark	Dangbei
Type/Model	DBOX04,DB*****("*"can be 0-9,A-Z,a-z,or blank)	Sample Status	/
Applicant	Shenzhen Dangs Science and Technology Co.,Ltd		
Applicant Address	1301, Block D1, Chuangzhi Yuncheng,Liuxian Avenue, Nanshan District, Shenzhen, Guangdong Province		
Manufacturer	Shenzhen Dangs Science and Technology Co.,Ltd		
Manufacturer Address	1301, Block D1, Chuangzhi Yuncheng,Liuxian Avenue, Nanshan District, Shenzhen, Guangdong Province		
Factory	Heyuan Yongjia Industrial Co.,Ltd		
Factory Address	Huntkey Industrial Park,18#, Longling Industrial Estate,Yuancheng District,Heyuan City,Guangdong Province,China		
Sample Identification	1-1	Test Item	See page 12
Tested According To	FCC CFR47 Part 15E ANSI C63.10-2020/Cor1-2023 KDB 789033 D02 General UNII Test Procedures New Rules v02r01 KDB 987594 D01 U-NII 6GHz General Requirements v03r01 KDB 987594 D02 U-NII 6 GHz EMC Measurement v03 KDB 414788 D01 Radiated Test Site v01r01 KDB 662911 D01 Multiple Transmitter Output v02r01		
Receiving Date	2025-04-16	Completing Date	2025-05-20
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: 2025-05-21		
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



Reviewed by:

Xu Zhenfei



Tested by:

Lu Weiji



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
GJW2025-2112	Original release	May.21,2025

1. General Product Information

1.1 General information

Product Name	Smart Projector
Model No.	DB0X04
Additional model	DB*****("*"can be 0-9,A-Z,a-z,or blank)
Power Supply	DC 19.0V
Serial Number(SN)	/
specific power settings	IEEE 802.11ax(HEW20): 8 IEEE 802. 11ax (HEW40): 8 IEEE 802. 11ax (HEW80): 8
Antenna Type	lpex antenna
Antenna Gain	Ant1: 2.92 dBi, Ant2: 2.68 dBi (provided by client)
Beamforming gain	Unsupported
Partial RU	Unsupported
channel puncturing	Unsupported
Frequency Range	UNII-5: For HEW20/a: 5955MHz ~ 6415MHz For HEW40: 5965MHz ~ 6405MHz For HEW80: 5985MHz ~ 6385MHz UNII-6: For HEW20/a: 6435MHz ~ 6515MHz For HEW40: 6445MHz ~ 6525MHz For HEW80: 6465MHz UNII-7: For HEW20/a: 6535MHz ~ 6855MHz For HEW40: 6565MHz ~ 6845MHz For HEW80: 6545MHz ~ 6865MHz UNII-8: For HEW20/a: 6875MHz ~ 7095MHz For HEW40: 6885MHz ~ 7045MHz For HEW80: 6945MHz
Modulation Type	IEEE 802.11ax(HEW20/HEW40/HEW80): 1024QAM,256QAM,64QAM,16QAM, QPSK,BPSK for OFDMA
Max. EIRP	UNII-5: 13.24dBm UNII-6: 12.86dBm UNII-7: 12.01dBm UNII-8: 11.37dBm
Operate Temp.Range	0°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: DB0X04. All the tests carried out on model DB0X04. 4. EUT photo refer to report (Report NO.:FCCSZ2025-0031-EUT). 5. For marketing purposes, only the model names on the nameplates are labeled differently in different markets, with no safety issues.	

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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FCC(Test firm designation number: CN1282)

IC(Test firm CAB identifier number: CN0103)

CNAS(Test firm designation number: L0095)

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 Operating Frequency of Each Channel

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq.(MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq.(MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq.(MHz)	5985				6065			
BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq.(MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq.(MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq.(MHz)	6145				6225			
BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq.(MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq.(MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq.(MHz)	6305				6385			
BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq.(MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq.(MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq.(MHz)	6465				6545			
BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq.(MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq.(MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq.(MHz)	6625				6705			
BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq.(MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq.(MHz)	6765		6805		6845		6885	

BW 80M	Channel	167				183			
	Freq.(MHz)	6785				6865			
BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq.(MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq.(MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				---			
	Freq.(MHz)	6945				---			
BW 20M	Channel	225	229	---	---	---	---	---	---
	Freq.(MHz)	7075	7095	---	---	---	---	---	---

3.2 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 802.11ax(HEW20) MIMO	2TX / 2RX	1,45,93,97,105,113,117,149,181,185,209,229
IEEE 802.11ax (HEW40) MIMO	2TX / 2RX	3,43,91,99,107,115,123,147,179,187,203,219
IEEE 802.11ax (HEW80) MIMO	2TX / 2RX	7,39,87,103,119,151,183,199

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 802.11ax(HEW20)	2TX / 2RX	MCS 0	MCS 0	MCS 0
IEEE 802.11ax (HEW40)	2TX / 2RX	MCS 0	MCS 0	MCS 0
IEEE 802.11ax (HEW80)	2TX / 2RX	MCS 0	MCS 0	MCS 0

Test Items	Test Antennas	Test Modes	Test Channels
Duty Cycle	MIMO	802.11ax20 802.11ax40 802.11ax80	1,45,93,97,105,113,117,149,181,185,209,229 3,43,91,99,107,115,123,147,179,187,203,219 7,39,87,103,119,151,183,199
Conducted Emissions	MIMO	802.11ax20	1
Unwanted Emissions	MIMO	802.11ax20	1,93,97,113,117,181,185,229
Maximum conducted output power	MIMO	802.11ax20 802.11ax40 802.11ax80	1,45,93,97,105,113,117,149,181,185,209,229 3,43,91,99,107,115,123,147,179,187,203,219 7,39,87,103,119,151,183,199
Maximum Power spectral density	MIMO	802.11ax20 802.11ax40 802.11ax80	1,45,93,97,105,113,117,149,181,185,209,229 3,43,91,99,107,115,123,147,179,187,203,219 7,39,87,103,119,151,183,199
Emission Bandwidth and Occupied Bandwidth	MIMO	802.11ax20 802.11ax40 802.11ax80	1,45,93,97,105,113,117,149,181,185,209,229 3,43,91,99,107,115,123,147,179,187,203,219 7,39,87,103,119,151,183,199
In-Band Mask	MIMO	802.11ax20 802.11ax40 802.11ax80	1,45,93,97,105,113,117,149,181,185,209,229 3,43,91,99,107,115,123,147,179,187,203,219 7,39,87,103,119,151,183,199
Frequency stability	MIMO	802.11ax20 802.11ax40 802.11ax80	1,45,93,97,105,113,117,149,181,185,209,229 3,43,91,99,107,115,123,147,179,187,203,219 7,39,87,103,119,151,183,199
Contention-based Protocol	MIMO	802.11ax20 802.11ax80	45,105,149,209 39,103,151,199

3.3 Duty cycle

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11AX20MIMO	Ant1	5955	1.00	1.04	96.15	---	---
	Ant2	5955	1.01	1.05	96.19	---	---
	Ant1	6175	1.00	1.04	96.15	---	---
	Ant2	6175	1.00	1.04	96.15	---	---
	Ant1	6415	1.00	1.04	96.15	---	---
	Ant2	6415	1.01	1.04	97.12	---	---
	Ant1	6435	1.00	1.04	96.15	---	---
	Ant2	6435	1.00	1.04	96.15	---	---
	Ant1	6475	1.01	1.04	97.12	---	---
	Ant2	6475	1.01	1.04	97.12	---	---
	Ant1	6515	1.00	1.04	96.15	---	---
	Ant2	6515	1.01	1.04	97.12	---	---
	Ant1	6535	1.01	1.04	97.12	---	---
	Ant2	6535	1.01	1.04	97.12	---	---
	Ant1	6695	1.01	1.04	97.12	---	---
	Ant2	6695	1.00	1.04	96.15	---	---
	Ant1	6855	1.01	1.04	97.12	---	---
	Ant2	6855	1.01	1.04	97.12	---	---
	Ant1	6875	1.01	1.06	95.28	---	---
	Ant2	6875	1.01	1.04	97.12	---	---
11AX40MIMO	Ant1	6995	1.01	1.04	97.12	---	---
	Ant2	6995	1.01	1.04	97.12	---	---
	Ant1	7095	1.01	1.04	97.12	---	---
	Ant2	7095	1.01	1.04	97.12	---	---
	Ant1	5965	0.53	1.16	45.69	---	---
	Ant2	5965	0.53	1.16	45.69	---	---
	Ant1	6165	0.53	0.61	86.89	---	---
	Ant2	6165	0.53	0.61	86.89	---	---
	Ant1	6405	0.53	0.57	92.98	---	---
	Ant2	6405	0.53	0.57	92.98	---	---
	Ant1	6445	0.53	0.57	92.98	---	---
	Ant2	6445	0.53	0.56	94.64	---	---
	Ant1	6485	0.53	0.57	92.98	---	---
	Ant2	6485	0.53	0.57	92.98	---	---
	Ant1	6525	0.53	0.56	94.64	---	---
	Ant2	6525	0.53	0.56	94.64	---	---
	Ant1	6565	0.53	0.56	94.64	---	---
	Ant2	6565	0.53	0.56	94.64	---	---
	Ant1	6685	0.53	0.57	92.98	---	---
	Ant2	6685	0.53	0.56	94.64	---	---
11AX80MIMO	Ant1	6845	0.53	0.57	92.98	---	---
	Ant2	6845	0.53	0.57	92.98	---	---
	Ant1	6885	0.53	0.56	94.64	---	---
	Ant2	6885	0.53	0.56	94.64	---	---
	Ant1	6965	0.53	0.56	94.64	---	---
	Ant2	6965	0.53	0.56	94.64	---	---
	Ant1	7045	0.53	0.56	94.64	---	---
	Ant2	7045	0.53	0.57	92.98	---	---
	Ant1	5985	0.28	0.91	30.77	---	---
	Ant2	5985	0.28	0.91	30.77	---	---
11AX80MIMO	Ant1	6145	0.29	0.92	31.52	---	---
	Ant2	6145	0.28	0.95	29.47	---	---
	Ant1	6385	0.28	0.59	47.46	---	---
	Ant2	6385	0.28	0.61	45.90	---	---
	Ant1	6465	0.28	0.32	87.50	---	---
	Ant2	6465	0.29	0.32	90.63	---	---
	Ant1	6545	0.29	0.33	87.88	---	---

	Ant2	6545	0.28	0.32	87.50	---	---
	Ant1	6705	0.29	0.32	90.63	---	---
	Ant2	6705	0.29	0.32	90.63	---	---
	Ant1	6865	0.00	0.01	100	---	---
	Ant2	6865	0.00	0.01	100	---	---
	Ant1	6945	0.29	0.32	90.63	---	---
	Ant2	6945	0.28	0.32	87.50	---	---

4. Summary of measurement results

Summary of measurements of results	Clause in FCC rules	Verdict	Note
Conducted Emissions	FCC 15.207	PASS	/
Unwanted Emissions	FCC 15.407(b) FCC 15.209 FCC 15.205	PASS	/
Maximum conducted output power	FCC 15.407(a)	PASS	/
Maximum Power spectral density	FCC 15.407(a)	PASS	Appendix C of WIFI6E_ diagram
Emission Bandwidth and 99% Occupied Bandwidth	FCC 15.407(a)	PASS	Appendix A1 and A2 of WIFI6E_ diagram
In-Band Emission(Mask)	FCC 15.407(b)	PASS	Appendix D of WIFI6E_ diagram
Frequency stability	FCC 15.407(g)	PASS	/
Contention-based Protocol	FCC 15.407(d)	PASS	Appendix E of WIFI6E_ diagram
Antenna Requirement	FCC 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

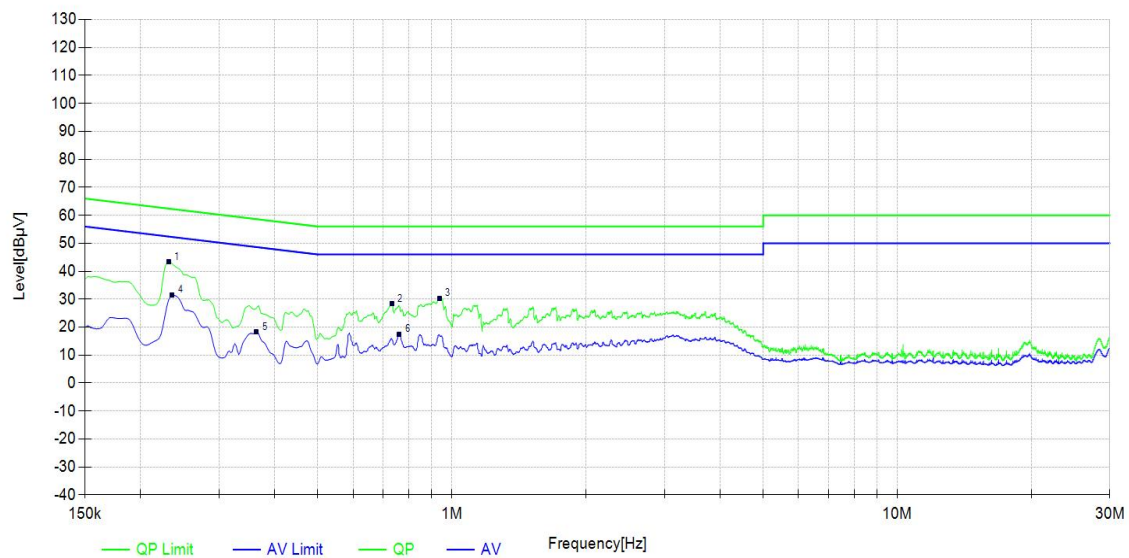
Note 1: The lower limit shall apply at the transition frequencies.

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

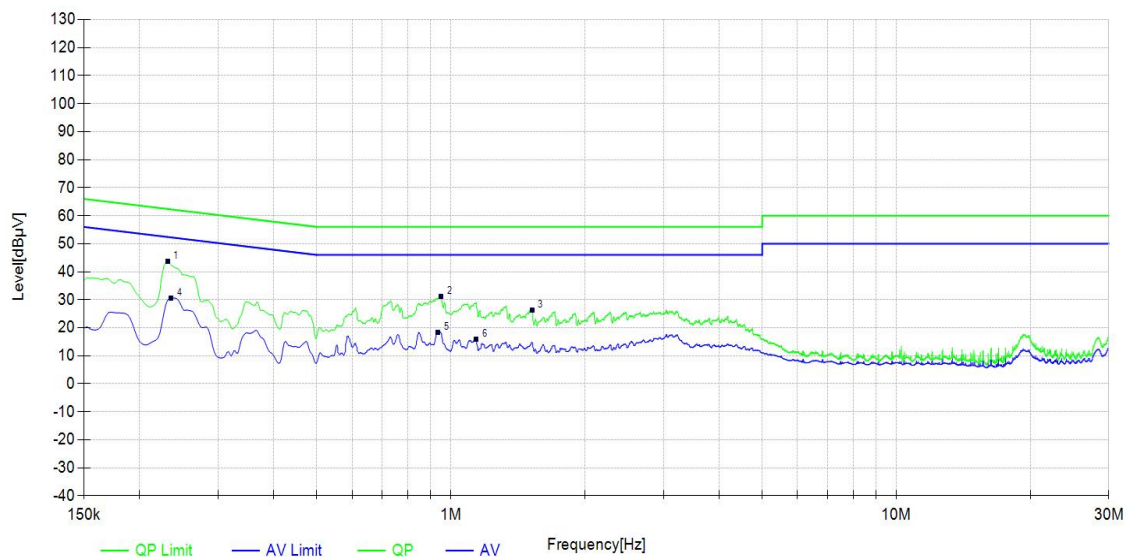
Test Results:

During the test, the Conducted Emission from 150kHz to 30MHz was carried out in all modes of UNII, on all channels and all antennas. IEEE 802.11ax20, Channel 1, 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	Type	Pass/Fail
0.2310	10.18	33.16	43.34	62.41	19.07	QP	L	PASS
0.7328	10.21	18.05	28.26	56.00	27.74	QP	L	PASS
0.9375	10.22	20.01	30.23	56.00	25.77	QP	L	PASS
0.2355	10.18	21.31	31.49	52.25	20.76	AV	L	PASS
0.3638	10.19	8.10	18.29	48.64	30.35	AV	L	PASS
0.7620	10.21	7.29	17.50	46.00	28.50	AV	L	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	Type	Pass/Fail
0.2310	10.18	33.54	43.72	62.41	18.69	QP	N	PASS
0.9510	10.23	20.92	31.15	56.00	24.85	QP	N	PASS
1.5225	10.24	16.08	26.32	56.00	29.68	QP	N	PASS
0.2355	10.18	20.45	30.63	52.25	21.62	AV	N	PASS
0.9353	10.22	8.18	18.40	46.00	27.60	AV	N	PASS
1.1400	10.23	5.70	15.93	46.00	30.07	AV	N	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:

1. For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

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

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

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

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

2. 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 ($\mu\text{V}/\text{m}$)	Limit ($\text{dB}\mu\text{V}/\text{m}$ @3m)	Remark
0.009MHz-0.490MHz	$2400/F(\text{kHz})@300\text{m}$	$20\lg(24000000/F(\text{kHz}))$	Quasi-peak Level
0.490MHz~1.705MHz	$24000/F(\text{kHz})@30\text{m}$	$20\lg(2400000/F(\text{kHz}))$	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

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2

8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.
12.57675-12.57725	322-335.4	3600-4400	/
13.36-13.41	/	/	/

Measurement Data

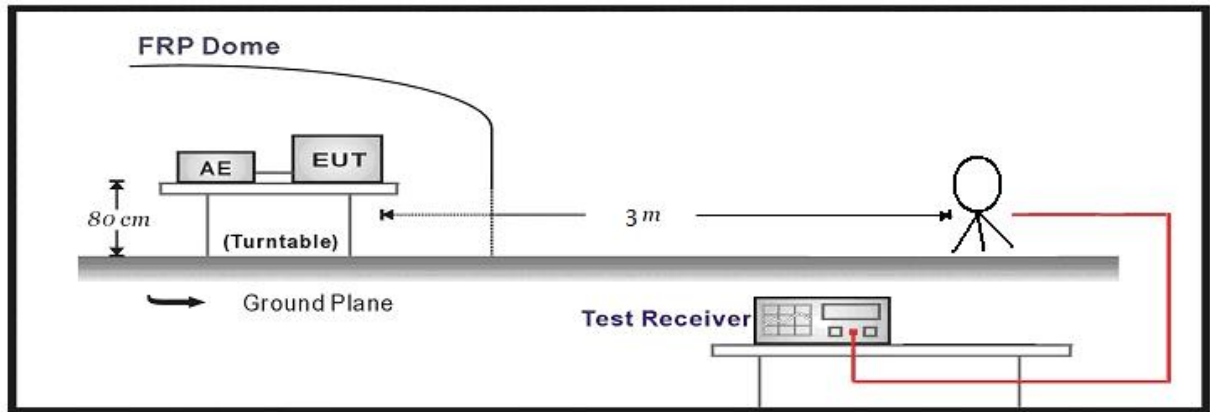
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

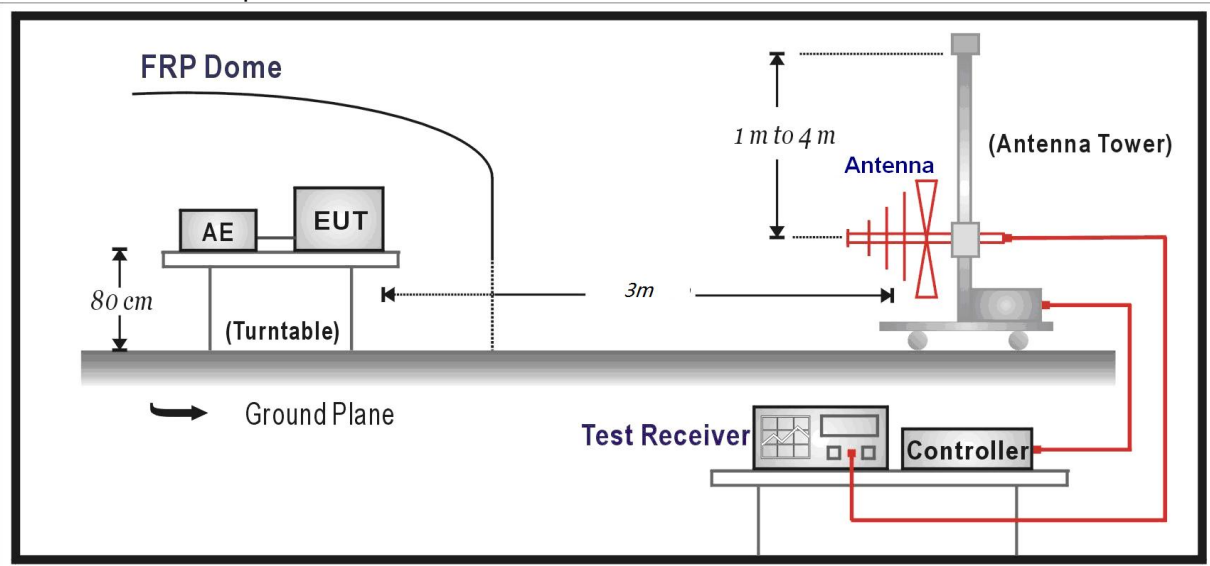
Correct Factor = Preamplifier Factor – Antenna Factor – Cable Factor

Test Setup:

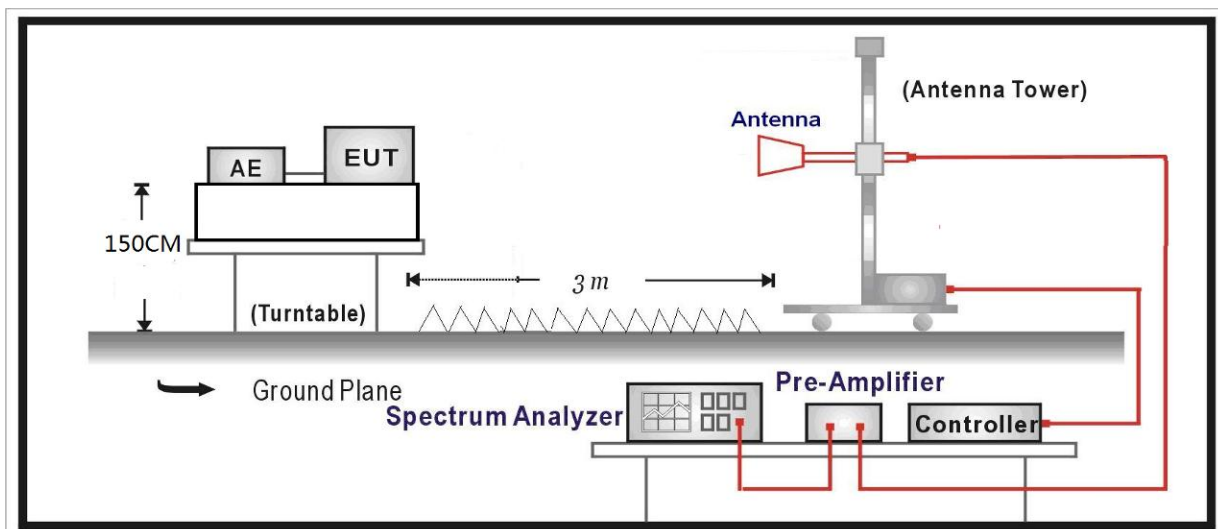
Below 30MHz Test Setup:



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:

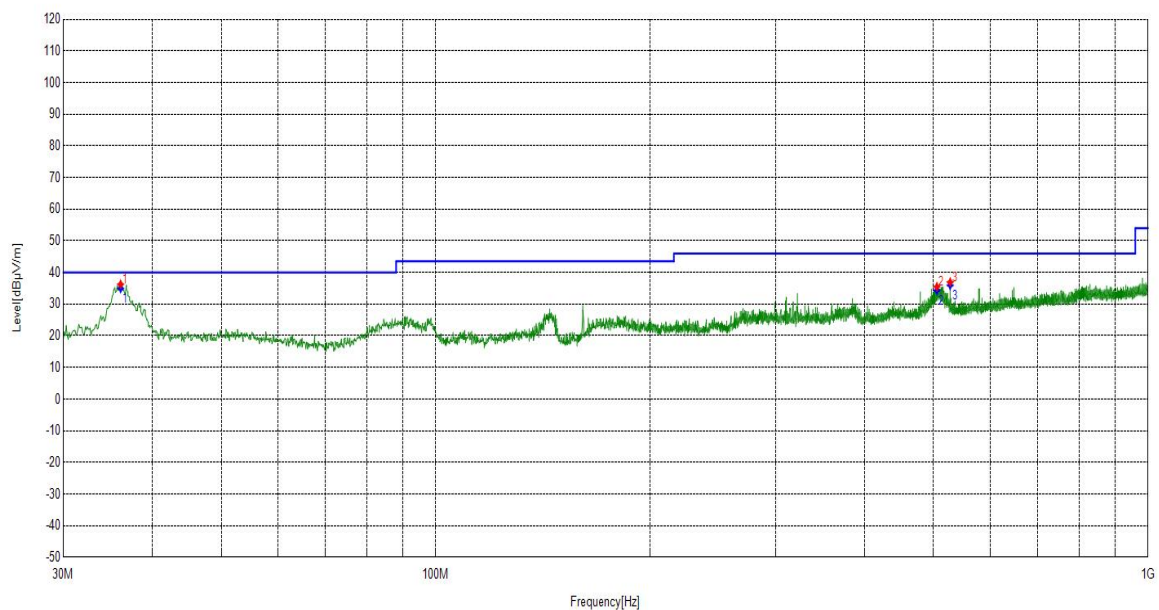
5.2.1.1 Below 1GHz:

During the test, the Radiates Emission from 9kHz to 1GHz was carried out in all frequency band, all channels and all antennas. UNII-5, IEEE 802.11ax20, Channel 1, 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
36.1116	11.37	24.91	36.28	40.00	3.72	PK	100	148	PASS
505.3475	19.84	15.66	35.50	46.00	10.50	PK	100	90	PASS
527.5628	20.38	16.56	36.94	46.00	9.06	PK	100	359	PASS

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

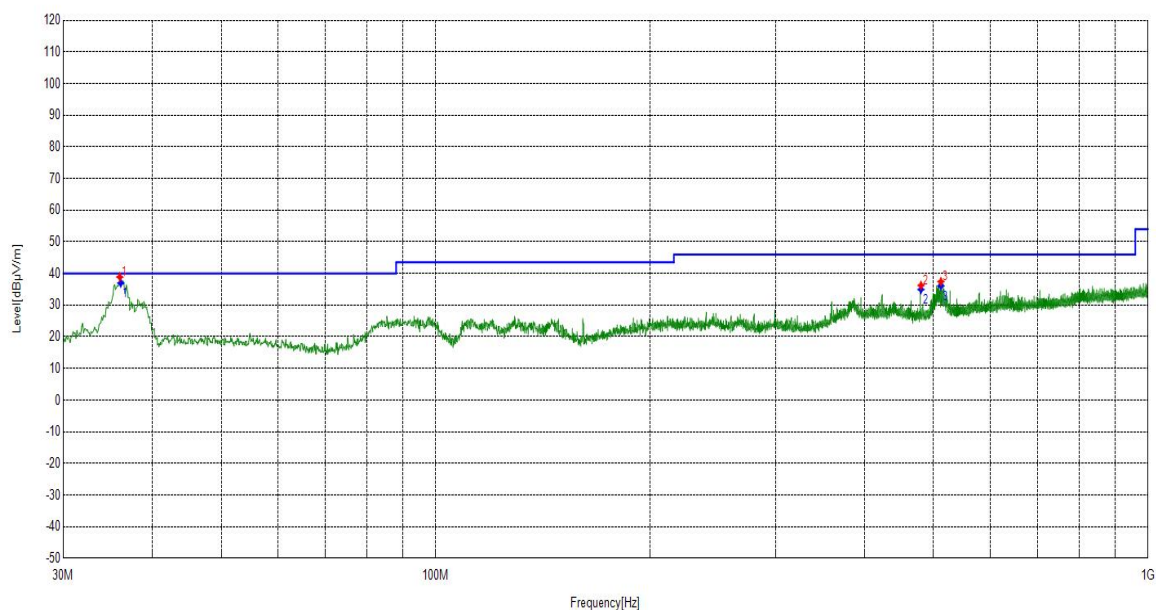
Final Data List							
Frequency [MHz]	Factor [dB]	QP Value [dB μ V/m]	QP Limit [dB μ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pass/Fail
36.1116	11.37	34.90	40.00	5.10	220	148	PASS
505.3475	19.84	34.30	46.00	11.70	200	90	PASS
527.5628	20.38	35.92	46.00	10.08	170	359	PASS



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
36.0146	11.35	27.52	38.87	40.00	1.13	PK	100	120	PASS
480.0280	19.34	16.87	36.21	46.00	9.79	PK	100	240	PASS
511.9442	20.00	17.42	37.42	46.00	8.58	PK	100	160	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
36.1256	11.35	36.95	40.00	3.05	270	116	PASS
480.0280	19.34	34.93	46.00	11.07	160	240	PASS
511.9442	20.00	36.06	46.00	9.94	140	160	PASS



5.2.1.2 Above 1GHz:

During the test, the Radiates Emission from 1GHz to 40GHz was carried out in all frequency band, all channels and all antennas. IEEE 802.11ax20, lowest and highest channels, MIMO are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Test Band		UNII-5							
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
5460.1460	3.68	37.05	40.73	74.00	33.27	PK	150	232	PASS
5925.6926	5.50	38.10	43.60	88.20	44.60	PK	150	353	PASS
5954.3954	5.60	86.13	91.73	---	---	PK	150	353	---
5460.1460	3.68	26.79	30.47	54.00	23.53	AV	150	359	PASS
5925.6926	5.50	28.14	33.64	68.20	34.56	AV	150	345	PASS
5957.1957	5.61	77.01	82.62	---	---	AV	150	353	---
8454.3454	9.92	33.30	43.22	74.00	30.78	PK	150	310	PASS
9245.3245	11.25	32.25	43.50	74.00	30.50	PK	150	320	PASS
11574.2576	11.90	33.59	45.49	74.00	28.51	PK	150	290	PASS
8041.8042	9.31	22.97	32.28	54.00	21.72	AV	150	235	PASS
10069.3069	12.44	21.57	34.01	54.00	19.99	AV	150	221	PASS
11377.3377	12.07	22.98	35.05	54.00	18.95	AV	150	153	PASS
Test Band		UNII-5							
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
5460.1460	3.68	36.65	40.33	74.00	33.67	PK	150	71	PASS
5925.6926	5.50	36.84	42.34	88.20	45.86	PK	150	97	PASS
5961.3961	5.62	78.42	84.04	---	---	PK	150	26	---
5460.1460	3.68	26.91	30.59	54.00	23.41	AV	150	1	PASS
5925.6926	5.50	26.84	32.34	68.20	35.86	AV	150	32	PASS
5957.1957	5.61	67.22	72.83	---	---	AV	150	26	---
8611.6612	10.11	33.66	43.77	74.00	30.23	PK	150	225	PASS
9246.4246	11.26	32.56	43.82	74.00	30.18	PK	150	282	PASS
11488.4488	11.93	33.52	45.45	74.00	28.55	PK	150	327	PASS
8507.1507	10.00	22.85	32.85	54.00	21.15	AV	150	34	PASS
9573.1573	12.37	20.35	32.72	54.00	21.28	AV	150	143	PASS
11209.0209	12.57	21.78	34.35	54.00	19.65	AV	150	332	PASS

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

Test Band		UNII-5							
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
6415.3391	7.61	76.15	83.76	---	---	PK	150	335	---
8451.3002	9.90	33.28	43.18	74.00	30.82	PK	150	310	PASS
9245.3240	11.25	32.20	43.45	74.00	30.55	PK	150	320	PASS
11574.2516	11.90	33.59	45.49	74.00	28.51	PK	150	290	PASS
12830.1190	13.79	31.98	45.77	74.00	28.23	PK	150	267	PASS
6416.1109	7.61	68.38	75.99	---	---	AV	150	335	---
8040.8140	9.30	22.95	32.24	54.00	21.76	AV	150	235	PASS
10069.3060	12.44	21.56	34.00	54.00	20.00	AV	150	221	PASS
11377.3375	12.07	22.99	35.06	54.00	18.94	AV	150	153	PASS
12831.5519	13.79	21.98	35.77	54.00	18.23	AV	150	267	PASS
Test Band		UNII-5							
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
6415.3390	7.61	70.15	77.76	---	---	PK	150	335	---
8611.6610	10.11	33.65	43.76	74.00	30.24	PK	150	225	PASS
9246.4200	11.26	32.56	43.82	74.00	30.18	PK	150	282	PASS
11488.4490	11.93	33.50	45.43	74.00	28.57	PK	150	327	PASS
12830.9019	13.79	31.98	45.77	74.00	28.23	PK	150	267	PASS
6416.1910	7.61	63.38	70.99	---	---	AV	150	335	---
8507.1557	10.00	22.90	32.90	54.00	21.10	AV	150	34	PASS
9573.1570	12.37	20.35	32.72	54.00	21.28	AV	150	143	PASS
11209.0219	12.57	21.79	34.36	54.00	19.64	AV	150	332	PASS
12831.5500	13.79	21.98	35.77	54.00	18.23	AV	150	267	PASS

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

Test Band		UNII-6							
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
6433.7918	7.93	77.10	85.03	---	---	PK	150	330	---
7598.4598	9.09	33.96	43.05	74.00	30.95	PK	150	40	PASS
9116.6117	10.80	32.61	43.41	74.00	30.59	PK	150	10	PASS
11212.3212	12.56	33.21	45.77	74.00	28.23	PK	150	210	PASS
12871.8810	13.99	31.98	45.97	74.00	28.03	PK	150	267	PASS
6434.2718	7.93	68.15	76.08	---	---	AV	150	330	---
8003.3003	9.25	23.61	32.86	54.00	21.14	AV	150	120	PASS
9586.3586	12.37	20.92	33.29	54.00	20.71	AV	150	220	PASS
11282.7283	12.35	23.32	35.67	54.00	18.33	AV	150	210	PASS
12871.1076	13.99	21.98	35.97	74.00	38.03	AV	150	267	PASS
Test Band		UNII-6							
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
6433.7918	7.93	74.10	82.03	---	---	PK	150	330	---
9984.5985	12.36	32.44	44.80	74.00	29.20	PK	150	130	PASS
12598.4598	13.07	32.69	45.76	74.00	28.24	PK	150	100	PASS
12871.8810	13.99	31.97	45.98	74.00	28.04	PK	150	262	PASS
14490.6491	18.34	32.65	50.99	74.00	23.01	PK	150	50	PASS
6434.2718	7.93	65.15	73.08	---	---	AV	150	330	---
9531.3531	12.35	21.16	33.51	54.00	20.49	AV	150	130	PASS
11834.9835	11.55	22.86	34.41	54.00	19.59	AV	150	150	PASS
12871.1076	13.99	21.38	35.37	74.00	38.63	AV	150	262	PASS
14380.6381	17.84	22.39	40.23	54.00	13.77	AV	150	210	PASS

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

Test Band		UNII-6							
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
6514.2910	8.02	78.23	86.25	---	---	PK	150	38	---
7598.4500	9.09	33.97	43.06	74.00	30.94	PK	150	40	PASS
9116.6215	10.80	32.60	43.40	74.00	30.60	PK	150	10	PASS
11212.3210	12.56	33.25	45.81	74.00	28.19	PK	150	210	PASS
13031.1192	14.81	33.19	48.00	74.00	26.00	PK	150	190	PASS
6514.2916	8.02	70.23	84.25	---	---	AV	150	38	---
8003.3030	9.25	23.60	32.85	54.00	21.15	AV	150	120	PASS
9586.3586	12.37	20.90	33.27	54.00	20.73	AV	150	220	PASS
11282.7822	12.35	23.35	35.70	54.00	18.30	AV	150	210	PASS
13032.7810	14.83	24.19	39.02	54.00	14.98	AV	150	190	PASS
Test Band		UNII-6							
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
6514.2110	8.02	78.20	86.22	---	---	PK	150	38	---
9984.5980	12.36	32.44	44.80	74.00	29.20	PK	150	130	PASS
12598.4987	13.07	32.66	45.73	74.00	28.27	PK	150	100	PASS
13031.9992	14.81	33.11	47.92	74.00	26.08	PK	150	190	PASS
14490.6910	18.34	32.60	50.94	74.00	23.06	PK	150	50	PASS
6514.2916	8.02	71.23	85.25	---	---	AV	150	38	---
9531.3511	12.35	21.17	33.52	54.00	20.48	AV	150	130	PASS
11834.9835	11.55	22.86	34.41	54.00	19.59	AV	150	150	PASS
13032.7810	14.83	24.19	39.02	54.00	14.98	AV	150	190	PASS
14380.6312	17.84	22.40	40.24	54.00	13.76	AV	150	210	PASS

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

Test Band		UNII-7							
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
6535.2291	8.92	78.10	87.02	---	---	PK	150	40	---
8705.1705	10.12	32.39	42.51	74.00	31.49	PK	150	130	PASS
9667.7668	12.40	31.97	44.37	74.00	29.63	PK	150	180	PASS
11820.6821	11.56	32.91	44.47	74.00	29.53	PK	150	150	PASS
13071.9910	14.91	33.19	48.10	74.00	25.90	PK	150	190	PASS
6535.2291	8.92	68.10	77.02	---	---	AV	150	40	---
7632.5633	9.11	23.30	32.41	54.00	21.59	AV	150	210	PASS
10113.3113	12.50	21.03	33.53	54.00	20.47	AV	150	80	PASS
11246.4246	12.46	22.65	35.11	54.00	18.89	AV	150	320	PASS
13071.9910	14.91	23.19	38.10	74.00	25.90	AV	150	190	PASS
Test Band		UNII-7							
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
6535.2290	8.92	77.10	86.02	---	---	PK	150	40	---
8475.2475	9.96	33.90	43.86	74.00	30.14	PK	150	120	PASS
10038.5039	12.40	31.16	43.56	74.00	30.44	PK	150	110	PASS
12543.4543	12.92	32.00	44.92	74.00	29.08	PK	150	230	PASS
13071.9110	14.91	33.20	48.11	74.00	25.89	PK	150	190	PASS
6535.2291	8.92	68.10	77.02	---	---	AV	150	40	---
8386.1386	9.82	23.25	33.07	54.00	20.93	AV	150	120	PASS
10422.4422	12.88	21.04	33.92	54.00	20.08	AV	150	110	PASS
12576.4576	13.00	22.25	35.25	54.00	18.75	AV	150	10	PASS
13071.9910	14.91	23.17	38.08	74.00	35.92	AV	150	190	PASS

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

Test Band		UNII-7							
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
6855.1901	9.01	71.80	80.81	---	---	PK	150	129	---
8705.1700	10.12	32.39	42.51	74.00	31.49	PK	150	130	PASS
9667.7685	12.40	31.98	44.38	74.00	29.62	PK	150	180	PASS
11820.6210	11.56	32.90	44.46	74.00	29.54	PK	150	150	PASS
13711.2718	15.19	32.78	47.97	74.00	26.03	PK	150	130	PASS
6856.1915	9.01	61.81	70.82	---	---	AV	150	129	---
7632.5333	9.11	23.31	32.42	54.00	21.58	AV	150	210	PASS
10110.3130	12.43	21.05	33.48	54.00	20.52	AV	150	80	PASS
11246.4466	12.46	22.64	35.10	54.00	18.90	AV	150	320	PASS
13711.2118	15.19	32.77	47.96	74.00	26.04	AV	150	130	PASS
Test Band		UNII-7							
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
6855.1900	9.01	71.85	80.86	---	---	PK	150	129	---
8475.2750	9.96	33.90	43.86	74.00	30.14	PK	150	120	PASS
10038.5033	12.40	31.15	43.55	74.00	30.45	PK	150	110	PASS
12543.4343	12.92	32.02	44.94	74.00	29.06	PK	150	230	PASS
13711.2715	15.20	32.78	47.98	74.00	26.02	PK	150	130	PASS
6856.1910	9.01	61.80	70.81	---	---	AV	150	129	---
8386.1380	9.82	23.25	33.07	54.00	20.93	AV	150	120	PASS
10422.4421	12.88	21.05	33.93	54.00	20.07	AV	150	110	PASS
12576.4776	13.00	22.20	35.20	54.00	18.80	AV	150	10	PASS
13711.2118	15.19	32.77	47.96	74.00	26.04	AV	150	130	PASS

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

Test Band		UNII-8							
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
6875.1098	9.01	71.82	80.83	---	---	PK	150	129	---
8705.1711	10.12	32.39	42.51	74.00	31.49	PK	150	130	PASS
9667.7667	12.40	31.97	44.37	74.00	29.63	PK	150	180	PASS
11820.6820	11.56	32.91	44.47	74.00	29.53	PK	150	150	PASS
13751.2981	15.99	32.75	48.74	74.00	25.26	PK	150	130	PASS
6875.1098	9.01	62.82	71.83	---	---	AV	150	129	---
7632.5644	9.11	23.30	32.41	54.00	21.59	AV	150	210	PASS
10113.3122	12.50	21.03	33.53	54.00	20.47	AV	150	80	PASS
11246.4246	12.46	22.65	35.11	54.00	18.89	AV	150	320	PASS
13751.2118	15.14	22.72	37.86	74.00	36.14	AV	150	130	PASS
Test Band		UNII-8							
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
6875.1098	9.01	71.82	80.83	---	---	PK	150	129	---
8475.2478	9.96	33.90	43.86	74.00	30.14	PK	150	120	PASS
10038.5038	12.40	31.16	43.56	74.00	30.44	PK	150	110	PASS
12543.4547	12.92	32.00	44.92	74.00	29.08	PK	150	230	PASS
13751.2981	15.99	32.75	48.74	74.00	25.26	PK	150	130	PASS
6875.1098	9.01	62.82	71.83	---	---	AV	150	129	---
8386.1386	9.82	23.25	33.07	54.00	20.93	AV	150	120	PASS
10422.4461	12.88	21.04	33.92	54.00	20.08	AV	150	110	PASS
12576.4766	13.00	22.25	35.25	54.00	18.75	AV	150	10	PASS
13751.2120	15.14	22.70	37.84	74.00	36.16	AV	150	130	PASS

Test Band		UNII-8							
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
7094.1094	8.85	83.57	92.42	---	---	PK	150	322	---
7125.6126	8.87	37.37	46.24	88.20	41.96	PK	150	209	PASS
7250.2250	9.01	37.19	46.20	74.00	27.80	PK	150	348	PASS
7091.3091	8.84	64.66	73.50	---	---	AV	150	12	---
7125.6126	8.87	26.17	35.04	68.20	33.16	AV	150	12	PASS
7250.2250	9.01	26.76	35.77	54.00	18.23	AV	150	1	PASS
8705.1711	10.12	32.39	42.51	74.00	31.49	PK	150	130	PASS
9667.7667	12.40	31.97	44.37	74.00	29.63	PK	150	180	PASS
11820.6820	11.56	32.91	44.47	74.00	29.53	PK	150	150	PASS
7632.5644	9.11	23.30	32.41	54.00	21.59	AV	150	210	PASS
10113.3122	12.50	21.03	33.53	54.00	20.47	AV	150	80	PASS
11246.4246	12.46	22.65	35.11	54.00	18.89	AV	150	320	PASS
Test Band		UNII-8							
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
7099.0099	8.85	80.78	89.63	---	---	PK	150	321	---
7125.6126	8.87	37.05	45.92	88.20	42.28	PK	150	124	PASS
7250.2250	9.01	37.71	46.72	74.00	27.28	PK	150	79	PASS
7095.5095	8.85	60.14	68.99	---	---	AV	150	301	---
7125.6126	8.87	26.07	34.94	68.20	33.26	AV	150	79	PASS
7250.2250	9.01	26.94	35.95	54.00	18.05	AV	150	359	PASS
8475.2478	9.96	33.90	43.86	74.00	30.14	PK	150	120	PASS
10038.5038	12.40	31.16	43.56	74.00	30.44	PK	150	110	PASS
12543.4547	12.92	32.00	44.92	74.00	29.08	PK	150	230	PASS
8386.1386	9.82	23.25	33.07	54.00	20.93	AV	150	120	PASS
10422.4461	12.88	21.04	33.92	54.00	20.08	AV	150	110	PASS
12576.4766	13.00	22.25	35.25	54.00	18.75	AV	150	10	PASS

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

5.3 Maximum conducted output power

Ambient condition:

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

Method of Measurement:

1. Method PM :

Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Correct the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

2. Method PM-G:

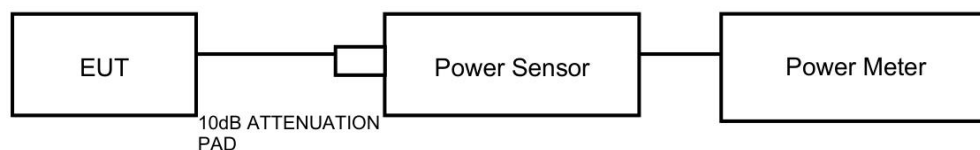
Method PM-G is measurement using a gated RF average power meter.

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Limits:

classification	Limit	Frequency Range
☐ Standard Power Access Point and Fixed Client Device	The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).	5.925-6.425 GHz and 6.525-6.875 GHz
☐ Indoor Access Point	The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.	5.925-7.125 GHz
☐ Subordinate Device	The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.	5.925-7.125 GHz
☐ client devices (except for fixed client devices)	The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.	5.925-6.425 GHz and 6.525-6.875 GHz
☒ client devices (under the control of an indoor access point)	The maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.	5.925-7.125 GHz
☐ very low power devices	The maximum e.i.r.p. must not exceed 14 dBm.	5.925-7.125 GHz

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:

TestMode	Antenna	Channel	Result [dBm]	Gain [dBi]	EIRP [dBm]	Total EIRP [dBm]	EIRP Limit [dBm]	Verdict
11AX20MIMO	Ant1	5955	5.88	2.92	8.80	11.60	≤24	PASS
	Ant2	5955	5.68	2.68	8.36			PASS
	Ant1	6175	5.51	2.92	8.43	11.12	≤24	PASS
	Ant2	6175	5.08	2.68	7.76			PASS
	Ant1	6415	5.31	2.92	8.23	11.14	≤24	PASS
	Ant2	6415	5.34	2.68	8.02			PASS
	Ant1	6435	5.24	2.92	8.16	11.03	≤24	PASS
	Ant2	6435	5.19	2.68	7.87			PASS
	Ant1	6475	4.73	2.92	7.65	10.64	≤24	PASS
	Ant2	6475	4.93	2.68	7.61			PASS
	Ant1	6515	4.76	2.92	7.68	10.76	≤24	PASS
	Ant2	6515	5.14	2.68	7.82			PASS
	Ant1	6535	4.34	2.92	7.26	10.53	≤24	PASS
	Ant2	6535	5.09	2.68	7.77			PASS
	Ant1	6695	3.58	2.92	6.50	9.63	≤24	PASS
	Ant2	6695	4.05	2.68	6.73			PASS
	Ant1	6855	3.73	2.92	6.65	9.53	≤24	PASS
	Ant2	6855	3.71	2.68	6.39			PASS
	Ant1	6875	3.76	2.92	6.68	9.53	≤24	PASS
	Ant2	6875	3.67	2.68	6.35			PASS
	Ant1	6995	4.80	2.92	7.72	10.43	≤24	PASS
	Ant2	6995	4.42	2.68	7.10			PASS
	Ant1	7095	5.28	2.92	8.20	11.37	≤24	PASS
	Ant2	7095	5.84	2.68	8.52			PASS
11AX40MIMO	Ant1	5965	5.88	2.92	8.80	11.38	≤24	PASS
	Ant2	5965	5.22	2.68	7.90			PASS
	Ant1	6165	5.88	2.92	8.80	11.36	≤24	PASS
	Ant2	6165	5.16	2.68	7.84			PASS
	Ant1	6405	5.51	2.92	8.43	11.08	≤24	PASS
	Ant2	6405	4.99	2.68	7.67			PASS
	Ant1	6445	5.35	2.92	8.27	10.85	≤24	PASS
	Ant2	6445	4.68	2.68	7.36			PASS
	Ant1	6485	4.92	2.92	7.84	10.59	≤24	PASS
	Ant2	6485	4.62	2.68	7.30			PASS
	Ant1	6525	4.75	2.92	7.67	10.48	≤24	PASS
	Ant2	6525	4.57	2.68	7.25			PASS
	Ant1	6565	3.92	2.92	6.84	9.87	≤24	PASS
	Ant2	6565	4.19	2.68	6.87			PASS
	Ant1	6685	3.56	2.92	6.48	9.37	≤24	PASS
	Ant2	6685	3.56	2.68	6.24			PASS
	Ant1	6845	3.66	2.92	6.58	9.33	≤24	PASS
	Ant2	6845	3.37	2.68	6.05			PASS
	Ant1	6885	3.91	2.92	6.83	9.57	≤24	PASS
	Ant2	6885	3.60	2.68	6.28			PASS
	Ant1	6965	4.17	2.92	7.09	9.73	≤24	PASS
	Ant2	6965	3.64	2.68	6.32			PASS
	Ant1	7045	5.15	2.92	8.07	10.95	≤24	PASS
	Ant2	7045	5.13	2.68	7.81			PASS
11AX80MIMO	Ant1	5985	5.79	2.92	8.71	11.35	≤24	PASS
	Ant2	5985	5.26	2.68	7.94			PASS
	Ant1	6145	6.19	2.92	9.11	13.24	≤24	PASS
	Ant2	6145	8.44	2.68	11.12			PASS
	Ant1	6385	7.39	2.92	10.31	13.07	≤24	PASS
	Ant2	6385	7.11	2.68	9.79			PASS
	Ant1	6465	7.22	2.92	10.14	12.86	≤24	PASS
	Ant2	6465	6.86	2.68	9.54			PASS
	Ant1	6545	6.90	2.92	9.82	12.01	≤24	PASS
	Ant2	6545	5.32	2.68	8.00			PASS
	Ant1	6705	3.77	2.92	6.69	10.74	≤24	PASS
	Ant2	6705	5.88	2.68	8.56			PASS

	Ant1	6865	2.17	2.92	5.09	7.60	≤24	PASS
	Ant2	6865	1.34	2.68	4.02			PASS
	Ant1	6945	4.62	2.92	7.54	10.45	≤24	PASS
	Ant2	6945	4.65	2.68	7.33			PASS

5.4 Maximum Power Spectral Density

Ambient condition:

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

Method of Measurement:

Notwithstanding that some regulatory requirements refer to peak power spectral density (PPSD), in some cases the intent is to measure the maximum value of the time average of the power spectral density during a period of continuous transmission. The procedure for this method is as follows:

a) Create an average power spectrum for the EUT operating mode being tested by following the instructions in 12.4.2 for measuring maximum conducted output power using a spectrum analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their respective alternatives) and apply it up to, but not including, the step labeled, "Compute power...." (This procedure is required even if the maximum conducted output power measurement was performed using the power meter method PM.)

b) Use the peak search function on the instrument to find the peak of the spectrum.

c) Make the following corrections to the peak value of the spectrum, if applicable:

1) If method SA-2 or SA-2A was used, then add $[10 \log (1 / D)]$, where D is the duty cycle, to the peak of the spectrum.

2) If method SA-3A was used and the linear mode was used in step h) of 12.4.2.7, add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.

d) The result is the PPSD.

e) The procedure in item a) through item c) requires the use of 1 MHz resolution bandwidth to satisfy the 1 MHz measurement bandwidth specified by some regulatory authorities.⁸⁵ This requirement also permits use of resolution bandwidths less than 1 MHz "provided that the measured power is integrated to show the total power over the measurement bandwidth" (i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated over 1 MHz bandwidth, the following adjustments to the procedures apply:

1) Set $RBW \geq 1 / T$, where T is defined in 12.2 a).

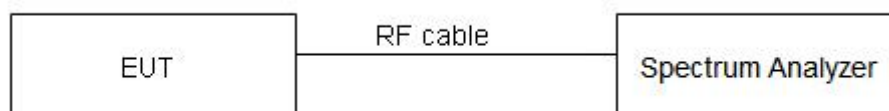
2) Set $VBW \geq [3 \times RBW]$.

3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Limits:

classification	Limit	Frequency Range
☐ Standard Power Access Point and Fixed Client Device	The maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.	5.925-6.425 GHz and 6.525-6.875 GHz
☐ Indoor Access Point	The maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.	5.925-7.125 GHz
☐ Subordinate Device	The maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.	5.925-7.125 GHz
☐ client devices (except for fixed client devices)	The maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.	5.925-6.425 GHz and 6.525-6.875 GHz
☒ client devices (under the control of an indoor access point)	The maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band.	5.925-7.125 GHz
☐ very low power devices	The maximum power spectral density must not exceed –5 dBm e.i.r.p in any 1-megahertz band.	5.925-7.125 GHz

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]	Gain[dBi]	EIRP [dBm/MHz]	Total EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11AX20MIMO	Ant1	5955	-8.24	2.92	-5.32	-2.55	≤-1	PASS
	Ant2	5955	-8.49	2.68	-5.81			PASS
	Ant1	6175	-7.37	2.92	-4.45	-1.68	≤-1	PASS
	Ant2	6175	-7.63	2.68	-4.95			PASS
	Ant1	6415	-7.41	2.92	-4.49	-1.58	≤-1	PASS
	Ant2	6415	-7.37	2.68	-4.69			PASS
	Ant1	6435	-7.47	2.92	-4.55	-1.75	≤-1	PASS
	Ant2	6435	-7.66	2.68	-4.98			PASS
	Ant1	6475	-7.67	2.92	-4.75	-1.96	≤-1	PASS
	Ant2	6475	-7.88	2.68	-5.20			PASS
	Ant1	6515	-7.77	2.92	-4.85	-1.96	≤-1	PASS
	Ant2	6515	-7.78	2.68	-5.10			PASS
	Ant1	6535	-8.23	2.92	-5.31	-2.01	≤-1	PASS
	Ant2	6535	-7.42	2.68	-4.74			PASS
	Ant1	6695	-7.96	2.92	-5.04	-2.03	≤-1	PASS
	Ant2	6695	-7.72	2.68	-5.04			PASS
	Ant1	6855	-7.97	2.92	-5.05	-2.34	≤-1	PASS
	Ant2	6855	-8.36	2.68	-5.68			PASS
	Ant1	6875	-8.07	2.92	-5.15	-2.38	≤-1	PASS
	Ant2	6875	-8.33	2.68	-5.65			PASS
	Ant1	6995	-7.34	2.92	-4.42	-1.41	≤-1	PASS
	Ant2	6995	-7.10	2.68	-4.42			PASS
	Ant1	7095	-8.22	2.92	-5.30	-2.10	≤-1	PASS
	Ant2	7095	-7.61	2.68	-4.93			PASS
11AX40MIMO	Ant1	5965	-6.87	2.92	-3.95	-1.29	≤-1	PASS
	Ant2	5965	-7.36	2.68	-4.68			PASS
	Ant1	6165	-7.37	2.92	-4.45	-1.93	≤-1	PASS
	Ant2	6165	-8.18	2.68	-5.50			PASS
	Ant1	6405	-7.79	2.92	-4.87	-2.21	≤-1	PASS
	Ant2	6405	-8.28	2.68	-5.60			PASS
	Ant1	6445	-7.40	2.92	-4.48	-2.07	≤-1	PASS
	Ant2	6445	-8.45	2.68	-5.77			PASS
	Ant1	6485	-8.24	2.92	-5.32	-2.54	≤-1	PASS
	Ant2	6485	-8.48	2.68	-5.80			PASS
	Ant1	6525	-8.14	2.92	-5.22	-2.68	≤-1	PASS
	Ant2	6525	-8.89	2.68	-6.21			PASS
	Ant1	6565	-9.00	2.92	-6.08	-3.12	≤-1	PASS
	Ant2	6565	-8.87	2.68	-6.19			PASS
	Ant1	6685	-9.78	2.92	-6.86	-3.80	≤-1	PASS
	Ant2	6685	-9.45	2.68	-6.77			PASS
	Ant1	6845	-9.81	2.92	-6.89	-4.12	≤-1	PASS
	Ant2	6845	-10.06	2.68	-7.38			PASS
	Ant1	6885	-9.16	2.92	-6.24	-3.60	≤-1	PASS
	Ant2	6885	-9.69	2.68	-7.01			PASS
	Ant1	6965	-9.33	2.92	-6.41	-3.68	≤-1	PASS
	Ant2	6965	-9.68	2.68	-7.00			PASS
	Ant1	7045	-8.52	2.92	-5.60	-2.64	≤-1	PASS
	Ant2	7045	-8.38	2.68	-5.70			PASS
11AX80MIMO	Ant1	5985	-9.98	2.92	-7.06	-4.34	≤-1	PASS
	Ant2	5985	-10.34	2.68	-7.66			PASS
	Ant1	6145	-7.83	2.92	-4.91	-2.17	≤-1	PASS
	Ant2	6145	-8.14	2.68	-5.46			PASS
	Ant1	6385	-7.71	2.92	-4.79	-2.85	≤-1	PASS
	Ant2	6385	-9.97	2.68	-7.29			PASS
	Ant1	6465	-6.80	2.92	-3.88	-2.03	≤-1	PASS
	Ant2	6465	-9.31	2.68	-6.63			PASS
	Ant1	6545	-7.68	2.92	-4.76	-2.87	≤-1	PASS
	Ant2	6545	-10.07	2.68	-7.39			PASS
	Ant1	6705	-9.92	2.92	-7.00	-3.87	≤-1	PASS
	Ant2	6705	-9.45	2.68	-6.77			PASS

	Ant1	6865	-12.09	2.92	-9.17	-7.43	≤-1	PASS
	Ant2	6865	-14.93	2.68	-12.25			PASS
	Ant1	6945	-9.99	2.92	-7.07	-4.34	≤-1	PASS
	Ant2	6945	-10.33	2.68	-7.65			PASS

5.5 Emission Bandwidth and Occupied Bandwidth

Ambient condition:

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

Method of Measurement:

A. Emission Bandwidth:

The procedure for this method is as follows:

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

NOTE—The automatic bandwidth measurement capability of a spectrum analyzer or an EMI receiver may be employed if it implements the functionality described in the preceding items.

B. Occupied Bandwidth:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

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

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning

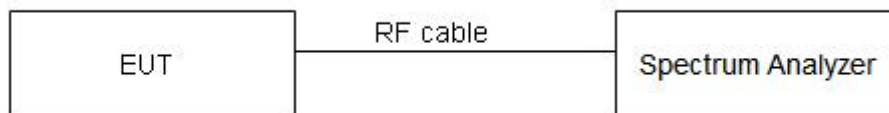
at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Limits:

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

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: Emission Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	26.95	5942.61	5969.56	≤320	Pass
	Ant2	5955	34.23	5937.29	5971.52	≤320	Pass
	Ant1	6175	23.87	6163.59	6187.46	≤320	Pass
	Ant2	6175	28.84	6161.56	6190.40	≤320	Pass
	Ant1	6415	30.87	6401.28	6432.15	≤320	Pass
	Ant2	6415	29.47	6403.59	6433.06	≤320	Pass
	Ant1	6435	24.15	6422.96	6447.11	≤320	Pass
	Ant2	6435	28.00	6418.27	6446.27	≤320	Pass
	Ant1	6475	29.26	6462.47	6491.73	≤320	Pass
	Ant2	6475	29.54	6462.47	6492.01	≤320	Pass
	Ant1	6515	31.50	6500.72	6532.22	≤320	Pass
	Ant2	6515	27.93	6498.69	6526.62	≤320	Pass
	Ant1	6535	27.16	6520.65	6547.81	≤320	Pass
	Ant2	6535	24.22	6522.68	6546.90	≤320	Pass
	Ant1	6695	29.26	6679.18	6708.44	≤320	Pass
	Ant2	6695	27.72	6681.28	6709.00	≤320	Pass
	Ant1	6855	28.49	6840.93	6869.42	≤320	Pass
	Ant2	6855	30.73	6841.56	6872.29	≤320	Pass
	Ant1	6875	30.66	6862.47	6893.13	≤320	Pass
	Ant2	6875	28.14	6859.74	6887.88	≤320	Pass
	Ant1	6995	31.64	6978.41	7010.05	≤320	Pass
	Ant2	6995	31.50	6980.37	7011.87	≤320	Pass
	Ant1	7095	27.72	7081.84	7109.56	≤320	Pass
	Ant2	7095	31.43	7076.80	7108.23	≤320	Pass
11AX40MIMO	Ant1	5965	40.40	5944.90	5985.30	≤320	Pass
	Ant2	5965	40.20	5944.90	5985.10	≤320	Pass
	Ant1	6165	40.30	6144.90	6185.20	≤320	Pass
	Ant2	6165	40.50	6144.80	6185.30	≤320	Pass
	Ant1	6405	40.50	6384.70	6425.20	≤320	Pass
	Ant2	6405	40.40	6384.80	6425.20	≤320	Pass
	Ant1	6445	40.60	6424.60	6465.20	≤320	Pass
	Ant2	6445	40.60	6424.70	6465.30	≤320	Pass
	Ant1	6485	40.30	6464.80	6505.10	≤320	Pass
	Ant2	6485	40.60	6464.60	6505.20	≤320	Pass
	Ant1	6525	40.40	6504.80	6545.20	≤320	Pass
	Ant2	6525	40.60	6504.70	6545.30	≤320	Pass
	Ant1	6565	40.50	6544.80	6585.30	≤320	Pass
	Ant2	6565	40.40	6544.80	6585.20	≤320	Pass
	Ant1	6685	40.30	6664.90	6705.20	≤320	Pass
	Ant2	6685	40.30	6664.80	6705.10	≤320	Pass
	Ant1	6845	40.50	6824.70	6865.20	≤320	Pass
	Ant2	6845	40.40	6824.70	6865.10	≤320	Pass
	Ant1	6885	40.60	6864.70	6905.30	≤320	Pass
	Ant2	6885	40.60	6864.70	6905.30	≤320	Pass
	Ant1	6965	40.60	6944.60	6985.20	≤320	Pass
	Ant2	6965	40.40	6944.70	6985.10	≤320	Pass
	Ant1	7045	40.60	7024.60	7065.20	≤320	Pass
	Ant2	7045	40.50	7024.70	7065.20	≤320	Pass
11AX80MIMO	Ant1	5985	82.40	5944.00	6026.40	≤320	Pass
	Ant2	5985	82.20	5943.80	6026.00	≤320	Pass
	Ant1	6145	82.40	6103.80	6186.20	≤320	Pass
	Ant2	6145	82.60	6103.60	6186.20	≤320	Pass
	Ant1	6385	82.20	6344.00	6426.20	≤320	Pass
	Ant2	6385	82.40	6343.80	6426.20	≤320	Pass
	Ant1	6465	82.40	6424.00	6506.40	≤320	Pass
	Ant2	6465	82.40	6423.80	6506.20	≤320	Pass
	Ant1	6545	82.40	6503.80	6586.20	≤320	Pass
	Ant2	6545	82.20	6504.00	6586.20	≤320	Pass
	Ant1	6705	82.40	6663.80	6746.20	≤320	Pass
	Ant2	6705	82.40	6663.80	6746.20	≤320	Pass

	Ant1	6865	82.20	6824.00	6906.20	≤320	Pass
	Ant2	6865	82.60	6823.80	6906.40	≤320	Pass
	Ant1	6945	82.40	6903.60	6986.00	≤320	Pass
	Ant2	6945	82.20	6903.80	6986.00	≤320	Pass

Test Results: Occupied Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	19.261	5945.2897	5964.5504	≤320	PASS
	Ant2	5955	19.301	5945.2498	5964.5504	≤320	PASS
	Ant1	6175	19.261	6165.2897	6184.5504	≤320	PASS
	Ant2	6175	19.381	6165.2897	6184.6703	≤320	PASS
	Ant1	6415	19.261	6405.2897	6424.5504	≤320	PASS
	Ant2	6415	19.341	6405.3297	6424.6703	≤320	PASS
	Ant1	6435	19.301	6425.2897	6444.5904	≤320	PASS
	Ant2	6435	19.301	6425.2897	6444.5904	≤320	PASS
	Ant1	6475	19.301	6465.2897	6484.5904	≤320	PASS
	Ant2	6475	19.381	6465.2098	6484.5904	≤320	PASS
	Ant1	6515	19.301	6505.2498	6524.5504	≤320	PASS
	Ant2	6515	19.341	6505.2498	6524.5904	≤320	PASS
	Ant1	6535	19.261	6525.2897	6544.5504	≤320	PASS
	Ant2	6535	19.421	6525.3297	6544.7502	≤320	PASS
	Ant1	6695	19.301	6685.2897	6704.5904	≤320	PASS
	Ant2	6695	19.381	6685.2098	6704.5904	≤320	PASS
	Ant1	6855	19.301	6845.2897	6864.5904	≤320	PASS
	Ant2	6855	19.301	6845.2498	6864.5504	≤320	PASS
	Ant1	6875	19.341	6865.2498	6884.5904	≤320	PASS
	Ant2	6875	19.461	6865.2897	6884.7502	≤320	PASS
11AX40MIMO	Ant1	6995	19.381	6985.2897	7004.6703	≤320	PASS
	Ant2	6995	19.54	6985.2098	7004.7502	≤320	PASS
	Ant1	7095	19.341	7085.2098	7104.5504	≤320	PASS
	Ant2	7095	19.5	7085.0899	7104.5904	≤320	PASS
	Ant1	5965	37.722	5946.1389	5983.8611	≤320	PASS
	Ant2	5965	37.722	5946.1389	5983.8611	≤320	PASS
	Ant1	6165	37.722	6146.1389	6183.8611	≤320	PASS
	Ant2	6165	37.722	6146.2188	6183.9411	≤320	PASS
	Ant1	6405	37.642	6386.1389	6423.7812	≤320	PASS
	Ant2	6405	37.642	6386.2987	6423.9411	≤320	PASS
	Ant1	6445	37.642	6426.1389	6463.7812	≤320	PASS
	Ant2	6445	37.722	6426.0589	6463.7812	≤320	PASS
	Ant1	6485	37.802	6466.0589	6503.8611	≤320	PASS
	Ant2	6485	37.642	6466.0589	6503.7013	≤320	PASS
	Ant1	6525	37.802	6506.0589	6543.8611	≤320	PASS
	Ant2	6525	37.882	6506.0589	6543.9411	≤320	PASS
	Ant1	6565	37.802	6546.0589	6583.8611	≤320	PASS
	Ant2	6565	37.722	6546.1389	6583.8611	≤320	PASS
	Ant1	6685	37.802	6666.0589	6703.8611	≤320	PASS
	Ant2	6685	37.642	6666.1389	6703.7812	≤320	PASS
11AX80MIMO	Ant1	6845	37.802	6826.0589	6863.8611	≤320	PASS
	Ant2	6845	37.882	6825.8991	6863.7812	≤320	PASS
	Ant1	6885	37.802	6866.0589	6903.8611	≤320	PASS
	Ant2	6885	37.802	6866.1389	6903.9411	≤320	PASS
	Ant1	6965	37.722	6946.0589	6983.7812	≤320	PASS
	Ant2	6965	37.722	6945.9790	6983.7013	≤320	PASS
	Ant1	7045	37.722	7026.0589	7063.7812	≤320	PASS
	Ant2	7045	37.802	7026.0589	7063.8611	≤320	PASS
	Ant1	5985	77.522	5946.3187	6023.8412	≤320	PASS
	Ant2	5985	77.203	5946.1588	6023.3616	≤320	PASS
11AX80MIMO	Ant1	6145	77.203	6106.4785	6183.6813	≤320	PASS
	Ant2	6145	77.682	6106.1588	6183.8412	≤320	PASS
	Ant1	6385	77.363	6346.3187	6423.6813	≤320	PASS
	Ant2	6385	77.842	6345.9990	6423.8412	≤320	PASS

	Ant1	6465	77.043	6426.4785	6503.5215	≤320	PASS
	Ant2	6465	76.883	6426.3187	6503.2018	≤320	PASS
	Ant1	6545	77.043	6506.4785	6583.5215	≤320	PASS
	Ant2	6545	77.522	6506.4785	6584.0010	≤320	PASS
	Ant1	6705	77.842	6666.1588	6744.0010	≤320	PASS
	Ant2	6705	76.883	6666.4785	6743.3616	≤320	PASS
	Ant1	6865	78.162	6825.9990	6904.1608	≤320	PASS
	Ant2	6865	78.801	6825.6793	6904.4805	≤320	PASS
	Ant1	6945	77.682	6905.9990	6983.6813	≤320	PASS
	Ant2	6945	77.363	6906.1588	6983.5215	≤320	PASS

5.6 In-Band Mask

Ambient condition:

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

Method of Measurement:

1. Connect the output of the antenna port to a spectrum analyzer or EMI receiver with appropriate attenuation to avoid damaging the instrumentation.

2. Set the reference level of the measuring equipment by procedure 4.1.5.2 of ANSI C63.10-2020/Cor1-2023.

3. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2020/Cor1-2023.
(This will be used to determine the channel edge.)

4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:

- Set the span to encompass the entire 26 dB EBW of the signal.
- Set RBW = same RBW used for 26 dB EBW measurement.
- Set VBW $\geq 3 \times$ RBW
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- Sweep time = auto.
- Detector = RMS (i.e., power averaging)
- Trace average at least 100 traces in power averaging (rms) mode.
- Use the peak search function on the instrument to find the spectrum's peak.

5. To develop the emission mask, the channel bandwidth is defined as 26 dB Equivalent Bandwidth (EBW) or 99% of the occupied bandwidth.

6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:

- Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is the 26-dB point on either side of the carrier center frequency).
- Suppressed by 28 dB at one channel bandwidth from the channel center.
- Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.

7. Adjust the span to encompass the entire mask as necessary.

8. Clear trace.

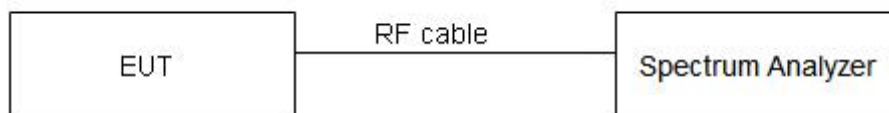
9. Trace average at least 100 traces in power averaging (rms) mode.

10. Adjust the reference level as necessary so that the channel's crest touches the top of the emission mask.

Limits:

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

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	Limit	Verdict
11AX20MIMO	Ant1	5955	See test graph	See test graph	PASS
	Ant2	5955	See test graph	See test graph	PASS
	Ant1	6175	See test graph	See test graph	PASS
	Ant2	6175	See test graph	See test graph	PASS
	Ant1	6415	See test graph	See test graph	PASS
	Ant2	6415	See test graph	See test graph	PASS
	Ant1	6435	See test graph	See test graph	PASS
	Ant2	6435	See test graph	See test graph	PASS
	Ant1	6475	See test graph	See test graph	PASS
	Ant2	6475	See test graph	See test graph	PASS
	Ant1	6515	See test graph	See test graph	PASS
	Ant2	6515	See test graph	See test graph	PASS
	Ant1	6535	See test graph	See test graph	PASS
	Ant2	6535	See test graph	See test graph	PASS
	Ant1	6695	See test graph	See test graph	PASS
	Ant2	6695	See test graph	See test graph	PASS
	Ant1	6855	See test graph	See test graph	PASS
	Ant2	6855	See test graph	See test graph	PASS
	Ant1	6875	See test graph	See test graph	PASS
	Ant2	6875	See test graph	See test graph	PASS
	Ant1	6995	See test graph	See test graph	PASS
	Ant2	6995	See test graph	See test graph	PASS
	Ant1	7095	See test graph	See test graph	PASS
	Ant2	7095	See test graph	See test graph	PASS
11AX40MIMO	Ant1	5965	See test graph	See test graph	PASS
	Ant2	5965	See test graph	See test graph	PASS
	Ant1	6165	See test graph	See test graph	PASS
	Ant2	6165	See test graph	See test graph	PASS
	Ant1	6405	See test graph	See test graph	PASS
	Ant2	6405	See test graph	See test graph	PASS
	Ant1	6445	See test graph	See test graph	PASS
	Ant2	6445	See test graph	See test graph	PASS
	Ant1	6485	See test graph	See test graph	PASS
	Ant2	6485	See test graph	See test graph	PASS
	Ant1	6525	See test graph	See test graph	PASS
	Ant2	6525	See test graph	See test graph	PASS
	Ant1	6565	See test graph	See test graph	PASS
	Ant2	6565	See test graph	See test graph	PASS
	Ant1	6685	See test graph	See test graph	PASS
	Ant2	6685	See test graph	See test graph	PASS
	Ant1	6845	See test graph	See test graph	PASS
	Ant2	6845	See test graph	See test graph	PASS
	Ant1	6885	See test graph	See test graph	PASS
	Ant2	6885	See test graph	See test graph	PASS
	Ant1	6965	See test graph	See test graph	PASS
	Ant2	6965	See test graph	See test graph	PASS
	Ant1	7045	See test graph	See test graph	PASS
	Ant2	7045	See test graph	See test graph	PASS
11AX80MIMO	Ant1	5985	See test graph	See test graph	PASS
	Ant2	5985	See test graph	See test graph	PASS
	Ant1	6145	See test graph	See test graph	PASS
	Ant2	6145	See test graph	See test graph	PASS
	Ant1	6385	See test graph	See test graph	PASS
	Ant2	6385	See test graph	See test graph	PASS
	Ant1	6465	See test graph	See test graph	PASS
	Ant2	6465	See test graph	See test graph	PASS
	Ant1	6545	See test graph	See test graph	PASS
	Ant2	6545	See test graph	See test graph	PASS
	Ant1	6705	See test graph	See test graph	PASS
	Ant2	6705	See test graph	See test graph	PASS

	Ant1	6865	See test graph	See test graph	PASS
	Ant2	6865	See test graph	See test graph	PASS
	Ant1	6945	See test graph	See test graph	PASS
	Ant2	6945	See test graph	See test graph	PASS

5.7 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).

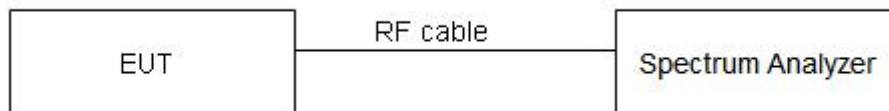
c) Measure the frequency at each of the frequencies specified in 5.6.

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 users 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)	
11AX20MIMO	Ant1	5955	NV	NT	-80000.00	-13.434089	20	PASS
			LV	NT	-80000.00	-13.434089	20	PASS
			HV	NT	-100000.00	-16.792611	20	PASS
	Ant2	5955	NV	NT	-80000.00	-13.434089	20	PASS
			LV	NT	-80000.00	-13.434089	20	PASS
			HV	NT	-80000.00	-13.434089	20	PASS
	Ant1	6175	HV	NT	-80000.00	-12.955466	20	PASS
			NV	NT	-80000.00	-12.955466	20	PASS
			LV	NT	-100000.00	-16.194332	20	PASS
	Ant2	6175	HV	NT	-80000.00	-12.955466	20	PASS
			NV	NT	-80000.00	-12.955466	20	PASS
			LV	NT	-80000.00	-12.955466	20	PASS
	Ant1	6415	NV	NT	-100000.00	-15.588465	20	PASS
			LV	NT	-100000.00	-15.588465	20	PASS
			HV	NT	-100000.00	-15.588465	20	PASS
	Ant2	6415	NV	NT	-80000.00	-12.470772	20	PASS
			LV	NT	-100000.00	-15.588465	20	PASS
			HV	NT	-100000.00	-15.588465	20	PASS
	Ant1	6435	HV	NT	-100000.00	-15.540016	20	PASS
			NV	NT	-100000.00	-15.540016	20	PASS
			LV	NT	-100000.00	-15.540016	20	PASS
	Ant2	6435	HV	NT	-100000.00	-15.540016	20	PASS
			LV	NT	-100000.00	-15.540016	20	PASS
			NV	NT	-100000.00	-15.540016	20	PASS
	Ant1	6475	NV	NT	-100000.00	-15.444015	20	PASS
			LV	NT	-100000.00	-15.444015	20	PASS
			HV	NT	-100000.00	-15.444015	20	PASS
	Ant2	6475	NV	NT	-100000.00	-15.444015	20	PASS
			LV	NT	-100000.00	-15.444015	20	PASS
			HV	NT	-100000.00	-15.444015	20	PASS
	Ant1	6515	NV	NT	-100000.00	-15.349194	20	PASS
			LV	NT	-100000.00	-15.349194	20	PASS
			HV	NT	-100000.00	-15.349194	20	PASS
	Ant2	6515	NV	NT	-100000.00	-15.349194	20	PASS
			LV	NT	-100000.00	-15.349194	20	PASS
			HV	NT	-100000.00	-15.349194	20	PASS
	Ant1	6535	NV	NT	-100000.00	-15.302219	20	PASS
			LV	NT	-100000.00	-15.302219	20	PASS
			HV	NT	-100000.00	-15.302219	20	PASS
	Ant2	6535	NV	NT	-100000.00	-15.302219	20	PASS
			LV	NT	-80000.00	-12.241775	20	PASS
			HV	NT	-100000.00	-15.302219	20	PASS
	Ant1	6695	HV	NT	-100000.00	-14.936520	20	PASS
			NV	NT	-100000.00	-14.936520	20	PASS
			LV	NT	-100000.00	-14.936520	20	PASS
	Ant2	6695	HV	NT	-100000.00	-14.936520	20	PASS
			LV	NT	-100000.00	-14.936520	20	PASS
			NV	NT	-100000.00	-14.936520	20	PASS
	Ant1	6855	NV	NT	-100000.00	-14.587892	20	PASS
			LV	NT	-100000.00	-14.587892	20	PASS
			HV	NT	-100000.00	-14.587892	20	PASS
	Ant2	6855	NV	NT	-100000.00	-14.587892	20	PASS
			LV	NT	-100000.00	-14.587892	20	PASS
			HV	NT	-100000.00	-14.587892	20	PASS
	Ant1	6875	NV	NT	-100000.00	-14.545455	20	PASS
			LV	NT	-80000.00	-11.636364	20	PASS
			HV	NT	-100000.00	-14.545455	20	PASS
	Ant2	6875	NV	NT	-100000.00	-14.545455	20	PASS
			LV	NT	-100000.00	-14.545455	20	PASS

	Ant1	6995	HV	NT	-100000.00	-14.545455	20	PASS
			NV	NT	-100000.00	-14.295926	20	PASS
			LV	NT	-100000.00	-14.295926	20	PASS
			HV	NT	-100000.00	-14.295926	20	PASS
	Ant2	6995	NV	NT	-100000.00	-14.295926	20	PASS
			LV	NT	-100000.00	-14.295926	20	PASS
			HV	NT	-100000.00	-14.295926	20	PASS
	Ant1	7095	NV	NT	-100000.00	-14.094433	20	PASS
			LV	NT	-100000.00	-14.094433	20	PASS
			HV	NT	-100000.00	-14.094433	20	PASS
	Ant2	7095	NV	NT	-120000.00	-16.913319	20	PASS
			HV	NT	-120000.00	-16.913319	20	PASS
			LV	NT	-120000.00	-16.913319	20	PASS
11AX40MIMO	Ant1	5965	NV	NT	-40000.00	-6.705784	20	PASS
			LV	NT	-40000.00	-6.705784	20	PASS
			HV	NT	-40000.00	-6.705784	20	PASS
	Ant2	5965	NV	NT	-40000.00	-6.705784	20	PASS
			LV	NT	-40000.00	-6.705784	20	PASS
			HV	NT	-40000.00	-6.705784	20	PASS
	Ant1	6165	NV	NT	-80000.00	-12.976480	20	PASS
			LV	NT	-80000.00	-12.976480	20	PASS
			HV	NT	-80000.00	-12.976480	20	PASS
	Ant2	6165	NV	NT	-80000.00	-12.976480	20	PASS
			LV	NT	-40000.00	-6.488240	20	PASS
			HV	NT	-80000.00	-12.976480	20	PASS
	Ant1	6405	NV	NT	-80000.00	-12.490242	20	PASS
			LV	NT	-120000.00	-18.735363	20	PASS
			HV	NT	-80000.00	-12.490242	20	PASS
	Ant2	6405	NV	NT	-80000.00	-12.490242	20	PASS
			LV	NT	-40000.00	-6.245121	20	PASS
			HV	NT	-40000.00	-6.245121	20	PASS
	Ant1	6445	NV	NT	-80000.00	-12.412723	20	PASS
			LV	NT	-80000.00	-12.412723	20	PASS
			HV	NT	-80000.00	-12.412723	20	PASS
	Ant2	6445	HV	NT	-80000.00	-12.412723	20	PASS
			NV	NT	-80000.00	-12.412723	20	PASS
			LV	NT	-80000.00	-12.412723	20	PASS
	Ant1	6485	NV	NT	-40000.00	-6.168080	20	PASS
			LV	NT	-80000.00	-12.336160	20	PASS
			HV	NT	-80000.00	-12.336160	20	PASS
	Ant2	6485	NV	NT	-80000.00	-12.336160	20	PASS
			LV	NT	-80000.00	-12.336160	20	PASS
			HV	NT	-80000.00	-12.336160	20	PASS
	Ant1	6525	NV	NT	-120000.00	-18.390805	20	PASS
			LV	NT	-80000.00	-12.260536	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	6525	NV	NT	-80000.00	-12.260536	20	PASS
			LV	NT	-80000.00	-12.260536	20	PASS
			HV	NT	-80000.00	-12.260536	20	PASS
	Ant1	6565	NV	NT	-80000.00	-12.185834	20	PASS
			LV	NT	-80000.00	-12.185834	20	PASS
			HV	NT	-80000.00	-12.185834	20	PASS
	Ant2	6565	NV	NT	-80000.00	-12.185834	20	PASS
			LV	NT	-80000.00	-12.185834	20	PASS
			HV	NT	-80000.00	-12.185834	20	PASS
	Ant1	6685	NV	NT	-80000.00	-11.967091	20	PASS
			LV	NT	-80000.00	-11.967091	20	PASS
			HV	NT	-80000.00	-11.967091	20	PASS
	Ant2	6685	NV	NT	-120000.00	-17.950636	20	PASS
			HV	NT	-120000.00	-17.950636	20	PASS
			LV	NT	-80000.00	-11.967091	20	PASS
	Ant1	6845	NV	NT	-80000.00	-11.687363	20	PASS
			LV	NT	-80000.00	-11.687363	20	PASS
			HV	NT	-80000.00	-11.687363	20	PASS

	Ant2	6845	NV	NT	-120000.00	-17.531045	20	PASS
			LV	NT	-120000.00	-17.531045	20	PASS
			HV	NT	-80000.00	-11.687363	20	PASS
	Ant1	6885	NV	NT	-80000.00	-11.619463	20	PASS
			LV	NT	-80000.00	-11.619463	20	PASS
			HV	NT	-80000.00	-11.619463	20	PASS
	Ant2	6885	NV	NT	-80000.00	-11.619463	20	PASS
			LV	NT	-80000.00	-11.619463	20	PASS
			HV	NT	-80000.00	-11.619463	20	PASS
	Ant1	6965	NV	NT	-120000.00	-17.229002	20	PASS
			LV	NT	-80000.00	-11.486001	20	PASS
			HV	NT	-120000.00	-17.229002	20	PASS
	Ant2	6965	NV	NT	-100000.00	-14.357502	20	PASS
			LV	NT	-125000.00	-17.946877	20	PASS
			HV	NT	-100000.00	-14.357502	20	PASS
	Ant1	7045	NV	NT	-120000.00	-17.033357	20	PASS
			LV	NT	-120000.00	-17.033357	20	PASS
			HV	NT	-120000.00	-17.033357	20	PASS
	Ant2	7045	LV	NT	-80000.00	-11.355571	20	PASS
			HV	NT	-120000.00	-17.033357	20	PASS
			NV	NT	-80000.00	-11.355571	20	PASS
11AX80MIMO	Ant1	5985	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	80000.00	13.366750	20	PASS
	Ant2	5985	NV	NT	-85900.00	-14.352548	20	PASS
			LV	NT	-86900.00	-14.519632	20	PASS
			HV	NT	-87900.00	-14.686717	20	PASS
	Ant1	6145	NV	NT	-93900.00	-15.280716	20	PASS
			LV	NT	-96900.00	-15.768918	20	PASS
			HV	NT	-97900.00	-15.931652	20	PASS
	Ant2	6145	LV	NT	-101900.00	-16.582587	20	PASS
			HV	NT	-101900.00	-16.582587	20	PASS
			NV	NT	-100900.00	-16.419854	20	PASS
	Ant1	6385	LV	NT	-105900.00	-16.585748	20	PASS
			HV	NT	-105900.00	-16.585748	20	PASS
			NV	NT	-104900.00	-16.429131	20	PASS
	Ant2	6385	NV	NT	-107900.00	-16.898982	20	PASS
			LV	NT	-106900.00	-16.742365	20	PASS
			HV	NT	-107900.00	-16.898982	20	PASS
	Ant1	6465	NV	NT	-106900.00	-16.535189	20	PASS
			LV	NT	-109900.00	-16.999227	20	PASS
			HV	NT	-109900.00	-16.999227	20	PASS
	Ant2	6465	LV	NT	-111900.00	-17.308585	20	PASS
			HV	NT	-111900.00	-17.308585	20	PASS
			NV	NT	-111900.00	-17.308585	20	PASS
	Ant1	6545	NV	NT	-110900.00	-16.944232	20	PASS
			LV	NT	-110900.00	-16.944232	20	PASS
			HV	NT	-110900.00	-16.944232	20	PASS
	Ant2	6545	NV	NT	-109900.00	-16.791444	20	PASS
			LV	NT	-109900.00	-16.791444	20	PASS
			HV	NT	-109900.00	-16.791444	20	PASS
	Ant1	6705	NV	NT	-110900.00	-16.539896	20	PASS
			LV	NT	-111900.00	-16.689038	20	PASS
			HV	NT	-111900.00	-16.689038	20	PASS
	Ant2	6705	LV	NT	-111900.00	-16.689038	20	PASS
			HV	NT	-111900.00	-16.689038	20	PASS
			NV	NT	-111900.00	-16.689038	20	PASS
	Ant1	6865	LV	NT	-113900.00	-16.591406	20	PASS
			HV	NT	-113900.00	-16.591406	20	PASS
			NV	NT	-112900.00	-16.445739	20	PASS
	Ant2	6865	NV	NT	-112900.00	-16.445739	20	PASS
			LV	NT	-112900.00	-16.445739	20	PASS
			HV	NT	-112900.00	-16.445739	20	PASS
	Ant1	6945	NV	NT	-114900.00	-16.544276	20	PASS

	Ant2	6945	LV	NT	-117900.00	-16.976242	20	PASS
			HV	NT	-118900.00	-17.120230	20	PASS
			HV	NT	-120900.00	-17.408207	20	PASS
			NV	NT	-120900.00	-17.408207	20	PASS
			LV	NT	-120900.00	-17.408207	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AX20MIMO	Ant1	5955	NV	-20	-80000.00	-13.434089	20	PASS
			NV	50	-80000.00	-13.434089	20	PASS
			NV	40	-80000.00	-13.434089	20	PASS
			NV	30	-80000.00	-13.434089	20	PASS
			NV	20	-80000.00	-13.434089	20	PASS
			NV	10	-100000.00	-16.792611	20	PASS
			NV	-10	-100000.00	-16.792611	20	PASS
			NV	-30	-80000.00	-13.434089	20	PASS
			NV	0	-80000.00	-13.434089	20	PASS
	Ant2	5955	NV	20	-80000.00	-13.434089	20	PASS
			NV	-20	-80000.00	-13.434089	20	PASS
			NV	50	-80000.00	-13.434089	20	PASS
			NV	40	-80000.00	-13.434089	20	PASS
			NV	30	-100000.00	-16.792611	20	PASS
			NV	-30	-80000.00	-13.434089	20	PASS
			NV	-10	-80000.00	-13.434089	20	PASS
			NV	0	-80000.00	-13.434089	20	PASS
	Ant1	6175	NV	10	-100000.00	-16.792611	20	PASS
			NV	10	-100000.00	-16.194332	20	PASS
			NV	50	-100000.00	-16.194332	20	PASS
			NV	40	-80000.00	-12.955466	20	PASS
			NV	20	-100000.00	-16.194332	20	PASS
			NV	0	-100000.00	-16.194332	20	PASS
			NV	-10	-80000.00	-12.955466	20	PASS
			NV	-20	-80000.00	-12.955466	20	PASS
	Ant2	6175	NV	-30	-80000.00	-12.955466	20	PASS
			NV	30	-80000.00	-12.955466	20	PASS
			NV	-20	-80000.00	-12.955466	20	PASS
			NV	20	-80000.00	-12.955466	20	PASS
			NV	50	-80000.00	-12.955466	20	PASS
			NV	40	-80000.00	-12.955466	20	PASS
			NV	-30	-80000.00	-12.955466	20	PASS
			NV	-10	-80000.00	-12.955466	20	PASS
	Ant1	6415	NV	0	-100000.00	-15.588465	20	PASS
			NV	50	-100000.00	-15.588465	20	PASS
			NV	40	-100000.00	-15.588465	20	PASS
			NV	30	-100000.00	-15.588465	20	PASS
			NV	10	-100000.00	-15.588465	20	PASS
			NV	-10	-100000.00	-15.588465	20	PASS
			NV	-20	-80000.00	-12.470772	20	PASS
			NV	-30	-100000.00	-15.588465	20	PASS
	Ant2	6415	NV	20	-100000.00	-15.588465	20	PASS
			NV	10	-100000.00	-15.588465	20	PASS
			NV	40	-100000.00	-15.588465	20	PASS
			NV	50	-100000.00	-15.588465	20	PASS
			NV	20	-80000.00	-12.470772	20	PASS
			NV	-10	-100000.00	-15.588465	20	PASS
			NV	-20	-100000.00	-15.588465	20	PASS
			NV	-30	-100000.00	-15.588465	20	PASS
			NV	30	-100000.00	-15.588465	20	PASS

	Ant1	6435	NV	0	-100000.00	-15.588465	20	PASS
			NV	0	-100000.00	-15.540016	20	PASS
			NV	50	-100000.00	-15.540016	20	PASS
			NV	40	-80000.00	-12.432012	20	PASS
			NV	30	-80000.00	-12.432012	20	PASS
			NV	10	-100000.00	-15.540016	20	PASS
			NV	-10	-100000.00	-15.540016	20	PASS
			NV	-20	-100000.00	-15.540016	20	PASS
			NV	-30	-100000.00	-15.540016	20	PASS
	Ant2	6435	NV	20	-100000.00	-15.540016	20	PASS
			NV	-20	-100000.00	-15.540016	20	PASS
			NV	20	-100000.00	-15.540016	20	PASS
			NV	50	-100000.00	-15.540016	20	PASS
			NV	40	-100000.00	-15.540016	20	PASS
			NV	30	-100000.00	-15.540016	20	PASS
			NV	-30	-100000.00	-15.540016	20	PASS
			NV	-10	-100000.00	-15.540016	20	PASS
			NV	0	-100000.00	-15.540016	20	PASS
	Ant1	6475	NV	10	-100000.00	-15.540016	20	PASS
			NV	0	-100000.00	-15.444015	20	PASS
			NV	50	-100000.00	-15.444015	20	PASS
			NV	40	-100000.00	-15.444015	20	PASS
			NV	30	-100000.00	-15.444015	20	PASS
			NV	10	-100000.00	-15.444015	20	PASS
			NV	-10	-100000.00	-15.444015	20	PASS
			NV	-20	-100000.00	-15.444015	20	PASS
			NV	-30	-100000.00	-15.444015	20	PASS
	Ant2	6475	NV	20	-100000.00	-15.444015	20	PASS
			NV	0	-100000.00	-15.444015	20	PASS
			NV	50	-100000.00	-15.444015	20	PASS
			NV	40	-100000.00	-15.444015	20	PASS
			NV	30	-100000.00	-15.444015	20	PASS
			NV	-10	-100000.00	-15.444015	20	PASS
			NV	-20	-100000.00	-15.444015	20	PASS
			NV	-30	-100000.00	-15.444015	20	PASS
			NV	20	-100000.00	-15.444015	20	PASS
	Ant1	6515	NV	10	-100000.00	-15.444015	20	PASS
			NV	0	-100000.00	-15.349194	20	PASS
			NV	50	-100000.00	-15.349194	20	PASS
			NV	40	-100000.00	-15.349194	20	PASS
			NV	30	-100000.00	-15.349194	20	PASS
			NV	10	-100000.00	-15.349194	20	PASS
			NV	-10	-100000.00	-15.349194	20	PASS
			NV	-20	-100000.00	-15.349194	20	PASS
			NV	-30	-100000.00	-15.349194	20	PASS
	Ant2	6515	NV	20	-100000.00	-15.349194	20	PASS
			NV	10	-100000.00	-15.349194	20	PASS
			NV	40	-100000.00	-15.349194	20	PASS
			NV	50	-100000.00	-15.349194	20	PASS
			NV	20	-100000.00	-15.349194	20	PASS
			NV	-10	-100000.00	-15.349194	20	PASS
			NV	-20	-100000.00	-15.349194	20	PASS
			NV	-30	-100000.00	-15.349194	20	PASS
			NV	30	-100000.00	-15.349194	20	PASS
	Ant1	6535	NV	0	-100000.00	-15.349194	20	PASS
			NV	0	-100000.00	-15.302219	20	PASS
			NV	50	-100000.00	-15.302219	20	PASS
			NV	40	-100000.00	-15.302219	20	PASS
			NV	30	-100000.00	-15.302219	20	PASS
			NV	10	-100000.00	-15.302219	20	PASS
			NV	-10	-80000.00	-12.241775	20	PASS
			NV	-20	-100000.00	-15.302219	20	PASS
			NV	-30	-100000.00	-15.302219	20	PASS
			NV	20	-100000.00	-15.302219	20	PASS

	Ant2	6535	NV	0	-100000.00	-15.302219	20	PASS
			NV	40	-100000.00	-15.302219	20	PASS
			NV	30	-100000.00	-15.302219	20	PASS
			NV	50	-100000.00	-15.302219	20	PASS
			NV	-10	-100000.00	-15.302219	20	PASS
			NV	-20	-100000.00	-15.302219	20	PASS
			NV	-30	-100000.00	-15.302219	20	PASS
			NV	20	-100000.00	-15.302219	20	PASS
	Ant1	6695	NV	10	-100000.00	-15.302219	20	PASS
			NV	0	-100000.00	-14.936520	20	PASS
			NV	50	-100000.00	-14.936520	20	PASS
			NV	40	-100000.00	-14.936520	20	PASS
			NV	30	-100000.00	-14.936520	20	PASS
			NV	10	-100000.00	-14.936520	20	PASS
			NV	-10	-100000.00	-14.936520	20	PASS
			NV	-20	-100000.00	-14.936520	20	PASS
	Ant2	6695	NV	-30	-100000.00	-14.936520	20	PASS
			NV	20	-100000.00	-14.936520	20	PASS
			NV	-20	-100000.00	-14.936520	20	PASS
			NV	50	-100000.00	-14.936520	20	PASS
			NV	40	-100000.00	-14.936520	20	PASS
			NV	30	-100000.00	-14.936520	20	PASS
			NV	20	-100000.00	-14.936520	20	PASS
			NV	-10	-100000.00	-14.936520	20	PASS
	Ant1	6855	NV	0	-100000.00	-14.936520	20	PASS
			NV	-30	-100000.00	-14.936520	20	PASS
			NV	10	-100000.00	-14.936520	20	PASS
			NV	0	-100000.00	-14.587892	20	PASS
			NV	50	-100000.00	-14.587892	20	PASS
			NV	40	-100000.00	-14.587892	20	PASS
			NV	30	-100000.00	-14.587892	20	PASS
			NV	10	-100000.00	-14.587892	20	PASS
	Ant2	6855	NV	-10	-100000.00	-14.587892	20	PASS
			NV	-20	-100000.00	-14.587892	20	PASS
			NV	-30	-100000.00	-14.587892	20	PASS
			NV	20	-100000.00	-14.587892	20	PASS
			NV	10	-100000.00	-14.587892	20	PASS
			NV	0	-100000.00	-14.587892	20	PASS
			NV	50	-100000.00	-14.587892	20	PASS
			NV	40	-100000.00	-14.587892	20	PASS
	Ant1	6875	NV	30	-100000.00	-14.587892	20	PASS
			NV	10	-100000.00	-14.587892	20	PASS
			NV	-10	-100000.00	-14.587892	20	PASS
			NV	-20	-100000.00	-14.587892	20	PASS
			NV	-30	-100000.00	-14.587892	20	PASS
			NV	20	-100000.00	-14.587892	20	PASS
			NV	10	-100000.00	-14.587892	20	PASS
			NV	0	-100000.00	-14.587892	20	PASS
	Ant2	6875	NV	50	-100000.00	-14.545455	20	PASS
			NV	40	-100000.00	-14.545455	20	PASS
			NV	30	-100000.00	-14.545455	20	PASS
			NV	10	-100000.00	-14.545455	20	PASS
			NV	-10	-100000.00	-14.545455	20	PASS
			NV	-20	-100000.00	-14.545455	20	PASS
			NV	-30	-100000.00	-14.545455	20	PASS
			NV	20	-100000.00	-14.545455	20	PASS
	Ant1	6995	NV	10	-100000.00	-14.545455	20	PASS
			NV	-10	-100000.00	-14.545455	20	PASS
			NV	-20	-100000.00	-14.545455	20	PASS
			NV	-30	-100000.00	-14.545455	20	PASS
			NV	20	-100000.00	-14.545455	20	PASS
			NV	10	-100000.00	-14.545455	20	PASS
			NV	0	-100000.00	-14.545455	20	PASS
			NV	50	-100000.00	-14.545455	20	PASS
	Ant1	6995	NV	0	-100000.00	-14.295926	20	PASS

			NV	50	-100000.00	-14.295926	20	PASS
			NV	40	-100000.00	-14.295926	20	PASS
			NV	30	-100000.00	-14.295926	20	PASS
			NV	10	-100000.00	-14.295926	20	PASS
			NV	-10	-100000.00	-14.295926	20	PASS
			NV	-20	-100000.00	-14.295926	20	PASS
			NV	-30	-100000.00	-14.295926	20	PASS
			NV	20	-100000.00	-14.295926	20	PASS
	Ant2	6995	NV	0	-100000.00	-14.295926	20	PASS
			NV	40	-100000.00	-14.295926	20	PASS
			NV	30	-100000.00	-14.295926	20	PASS
			NV	50	-100000.00	-14.295926	20	PASS
			NV	-10	-100000.00	-14.295926	20	PASS
			NV	-20	-100000.00	-14.295926	20	PASS
			NV	-30	-100000.00	-14.295926	20	PASS
			NV	20	-100000.00	-14.295926	20	PASS
			NV	10	-100000.00	-14.295926	20	PASS
	Ant1	7095	NV	0	-120000.00	-16.913319	20	PASS
			NV	50	-120000.00	-16.913319	20	PASS
			NV	40	-120000.00	-16.913319	20	PASS
			NV	30	-100000.00	-14.094433	20	PASS
			NV	10	-100000.00	-14.094433	20	PASS
			NV	-10	-100000.00	-14.094433	20	PASS
			NV	-20	-100000.00	-14.094433	20	PASS
			NV	-30	-100000.00	-14.094433	20	PASS
			NV	20	-120000.00	-16.913319	20	PASS
	Ant2	7095	NV	0	-120000.00	-16.913319	20	PASS
			NV	40	-120000.00	-16.913319	20	PASS
			NV	30	-140000.00	-19.732206	20	PASS
			NV	50	-140000.00	-19.732206	20	PASS
			NV	-10	-120000.00	-16.913319	20	PASS
			NV	-20	-140000.00	-19.732206	20	PASS
			NV	-30	-120000.00	-16.913319	20	PASS
			NV	20	-140000.00	-19.732206	20	PASS
			NV	10	-140000.00	-19.732206	20	PASS
11AX40MIMO	Ant1	5965	NV	0	-40000.00	-6.705784	20	PASS
			NV	50	-40000.00	-6.705784	20	PASS
			NV	40	-40000.00	-6.705784	20	PASS
			NV	30	-40000.00	-6.705784	20	PASS
			NV	10	-40000.00	-6.705784	20	PASS
			NV	-10	-80000.00	-13.411567	20	PASS
			NV	-20	-40000.00	-6.705784	20	PASS
			NV	-30	-80000.00	-13.411567	20	PASS
			NV	20	-40000.00	-6.705784	20	PASS
	Ant2	5965	NV	0	-40000.00	-6.705784	20	PASS
			NV	50	-40000.00	-6.705784	20	PASS
			NV	40	-40000.00	-6.705784	20	PASS
			NV	30	-40000.00	-6.705784	20	PASS
			NV	-10	-40000.00	-6.705784	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-30	-80000.00	-13.411567	20	PASS
			NV	20	-40000.00	-6.705784	20	PASS
			NV	10	-40000.00	-6.705784	20	PASS
	Ant1	6165	NV	0	-80000.00	-12.976480	20	PASS
			NV	50	-120000.00	-19.464720	20	PASS
			NV	40	-80000.00	-12.976480	20	PASS
			NV	30	-80000.00	-12.976480	20	PASS
			NV	10	-40000.00	-6.488240	20	PASS
			NV	-10	-80000.00	-12.976480	20	PASS
			NV	-20	-80000.00	-12.976480	20	PASS
			NV	-30	-80000.00	-12.976480	20	PASS
			NV	20	-80000.00	-12.976480	20	PASS
	Ant2	6165	NV	0	-40000.00	-6.488240	20	PASS
			NV	40	-40000.00	-6.488240	20	PASS

			NV	30	-80000.00	-12.976480	20	PASS
			NV	50	-40000.00	-6.488240	20	PASS
			NV	-10	-80000.00	-12.976480	20	PASS
			NV	-20	-40000.00	-6.488240	20	PASS
			NV	-30	-40000.00	-6.488240	20	PASS
			NV	20	-40000.00	-6.488240	20	PASS
			NV	10	-40000.00	-6.488240	20	PASS
	Ant1	6405	NV	0	-80000.00	-12.490242	20	PASS
			NV	50	-80000.00	-12.490242	20	PASS
			NV	40	-80000.00	-12.490242	20	PASS
			NV	30	-80000.00	-12.490242	20	PASS
			NV	10	-80000.00	-12.490242	20	PASS
			NV	-10	-80000.00	-12.490242	20	PASS
			NV	-20	-80000.00	-12.490242	20	PASS
			NV	-30	-80000.00	-12.490242	20	PASS
	Ant2	6405	NV	20	-80000.00	-12.490242	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	40	-80000.00	-12.490242	20	PASS
			NV	30	-80000.00	-12.490242	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-6.245121	20	PASS
			NV	-20	-80000.00	-12.490242	20	PASS
			NV	-30	0.00	0.000000	20	PASS
	Ant1	6445	NV	20	-80000.00	-12.490242	20	PASS
			NV	10	-80000.00	-12.490242	20	PASS
			NV	0	-80000.00	-12.412723	20	PASS
			NV	50	-80000.00	-12.412723	20	PASS
			NV	40	-80000.00	-12.412723	20	PASS
			NV	30	-40000.00	-6.206362	20	PASS
			NV	10	-80000.00	-12.412723	20	PASS
			NV	-10	-80000.00	-12.412723	20	PASS
	Ant2	6445	NV	-20	-80000.00	-12.412723	20	PASS
			NV	-30	-80000.00	-12.412723	20	PASS
			NV	20	-80000.00	-12.412723	20	PASS
			NV	20	-80000.00	-12.412723	20	PASS
			NV	-30	-80000.00	-12.412723	20	PASS
			NV	-20	-80000.00	-12.412723	20	PASS
			NV	10	-80000.00	-12.412723	20	PASS
			NV	30	-80000.00	-12.412723	20	PASS
	Ant1	6485	NV	40	-80000.00	-12.412723	20	PASS
			NV	50	-120000.00	-18.619085	20	PASS
			NV	0	-80000.00	-12.412723	20	PASS
			NV	0	-80000.00	-12.336160	20	PASS
			NV	50	-80000.00	-12.336160	20	PASS
			NV	40	-80000.00	-12.336160	20	PASS
			NV	30	-80000.00	-12.336160	20	PASS
			NV	10	-80000.00	-12.336160	20	PASS
	Ant2	6485	NV	-10	-80000.00	-12.336160	20	PASS
			NV	-20	-80000.00	-12.336160	20	PASS
			NV	-30	-120000.00	-18.504241	20	PASS
			NV	20	-80000.00	-12.336160	20	PASS
			NV	30	-80000.00	-12.336160	20	PASS
			NV	0	-80000.00	-12.336160	20	PASS
			NV	50	-80000.00	-12.336160	20	PASS
			NV	40	-80000.00	-12.336160	20	PASS
	Ant1	6525	NV	-30	-80000.00	-12.336160	20	PASS
			NV	0	-80000.00	-12.260536	20	PASS
			NV	50	-120000.00	-18.390805	20	PASS
			NV	40	-80000.00	-12.260536	20	PASS

			NV	30	-80000.00	-12.260536	20	PASS
			NV	10	-80000.00	-12.260536	20	PASS
			NV	-10	-80000.00	-12.260536	20	PASS
			NV	-20	-80000.00	-12.260536	20	PASS
			NV	-30	-120000.00	-18.390805	20	PASS
			NV	20	-80000.00	-12.260536	20	PASS
	Ant2	6525	NV	0	-80000.00	-12.260536	20	PASS
			NV	30	-80000.00	-12.260536	20	PASS
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			NV	40	-80000.00	-12.260536	20	PASS
			NV	-30	-80000.00	-12.260536	20	PASS
			NV	20	-80000.00	-12.260536	20	PASS
	Ant1	6565	NV	-10	-80000.00	-12.260536	20	PASS
			NV	-20	-80000.00	-12.260536	20	PASS
			NV	10	-80000.00	-12.260536	20	PASS
			NV	0	-80000.00	-12.185834	20	PASS
			NV	50	-80000.00	-12.185834	20	PASS
			NV	40	-80000.00	-12.185834	20	PASS
	Ant2	6565	NV	30	-80000.00	-12.185834	20	PASS
			NV	10	-80000.00	-12.185834	20	PASS
			NV	-10	-120000.00	-18.278751	20	PASS
			NV	-20	-80000.00	-12.185834	20	PASS
			NV	-30	-80000.00	-12.185834	20	PASS
			NV	20	-80000.00	-12.185834	20	PASS
	Ant1	6685	NV	0	-40000.00	-6.092917	20	PASS
			NV	40	-40000.00	-6.092917	20	PASS
			NV	30	-80000.00	-12.185834	20	PASS
			NV	50	-120000.00	-18.278751	20	PASS
			NV	-10	-80000.00	-12.185834	20	PASS
			NV	-20	-40000.00	-6.092917	20	PASS
	Ant2	6685	NV	-30	-80000.00	-12.185834	20	PASS
			NV	20	-120000.00	-18.278751	20	PASS
			NV	10	-80000.00	-12.185834	20	PASS
	Ant1	6845	NV	0	-120000.00	-17.950636	20	PASS
			NV	50	-80000.00	-11.967091	20	PASS
			NV	40	-80000.00	-11.967091	20	PASS
			NV	30	-120000.00	-17.950636	20	PASS
			NV	10	-120000.00	-17.950636	20	PASS
			NV	-10	-80000.00	-11.967091	20	PASS
	Ant2	6845	NV	-20	-80000.00	-11.967091	20	PASS
			NV	-30	-80000.00	-11.967091	20	PASS
			NV	20	-80000.00	-11.967091	20	PASS
	Ant1	6845	NV	0	-80000.00	-11.967091	20	PASS
			NV	30	-80000.00	-11.967091	20	PASS
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			NV	40	-80000.00	-11.967091	20	PASS
			NV	-30	-80000.00	-11.967091	20	PASS
	Ant2	6845	NV	20	-80000.00	-11.967091	20	PASS
			NV	-10	-80000.00	-11.967091	20	PASS
			NV	-20	-40000.00	-5.983545	20	PASS
	Ant1	6845	NV	10	-40000.00	-5.983545	20	PASS
			NV	0	-120000.00	-17.531045	20	PASS
			NV	50	-80000.00	-11.687363	20	PASS
			NV	40	-80000.00	-11.687363	20	PASS
	Ant2	6845	NV	30	-80000.00	-11.687363	20	PASS
			NV	10	-80000.00	-11.687363	20	PASS
			NV	-10	-80000.00	-11.687363	20	PASS
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			NV	-30	-80000.00	-11.687363	20	PASS
			NV	20	-80000.00	-11.687363	20	PASS
	Ant2	6845	NV	0	-80000.00	-11.687363	20	PASS
			NV	50	-80000.00	-11.687363	20	PASS
			NV	40	-80000.00	-11.687363	20	PASS
			NV	30	-120000.00	-17.531045	20	PASS

			NV	-10	-80000.00	-11.687363	20	PASS
			NV	-20	-80000.00	-11.687363	20	PASS
			NV	-30	-80000.00	-11.687363	20	PASS
			NV	20	-120000.00	-17.531045	20	PASS
			NV	10	-80000.00	-11.687363	20	PASS
	Ant1	6885	NV	0	-80000.00	-11.619463	20	PASS
			NV	50	-80000.00	-11.619463	20	PASS
			NV	40	-80000.00	-11.619463	20	PASS
			NV	30	-80000.00	-11.619463	20	PASS
			NV	10	-120000.00	-17.429194	20	PASS
			NV	-10	-80000.00	-11.619463	20	PASS
			NV	-20	-80000.00	-11.619463	20	PASS
			NV	-30	-80000.00	-11.619463	20	PASS
			NV	20	-80000.00	-11.619463	20	PASS
			NV	0	-80000.00	-11.619463	20	PASS
	Ant2	6885	NV	40	-80000.00	-11.619463	20	PASS
			NV	30	-80000.00	-11.619463	20	PASS
			NV	50	-80000.00	-11.619463	20	PASS
			NV	-10	-40000.00	-5.809731	20	PASS
			NV	-20	-80000.00	-11.619463	20	PASS
			NV	-30	-40000.00	-5.809731	20	PASS
			NV	20	-80000.00	-11.619463	20	PASS
			NV	10	-120000.00	-17.429194	20	PASS
	Ant1	6965	NV	0	-80000.00	-11.486001	20	PASS
			NV	50	-80000.00	-11.486001	20	PASS
			NV	40	-80000.00	-11.486001	20	PASS
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			NV	-10	-80000.00	-11.486001	20	PASS
			NV	-20	-80000.00	-11.486001	20	PASS
			NV	-30	-120000.00	-17.229002	20	PASS
	Ant2	6965	NV	20	-80000.00	-11.486001	20	PASS
			NV	0	-100000.00	-14.357502	20	PASS
			NV	40	-125000.00	-17.946877	20	PASS
			NV	30	-125000.00	-17.946877	20	PASS
			NV	50	-100000.00	-14.357502	20	PASS
			NV	-10	-125000.00	-17.946877	20	PASS
			NV	-20	-100000.00	-14.357502	20	PASS
			NV	-30	-125000.00	-17.946877	20	PASS
	Ant1	7045	NV	20	-100000.00	-14.357502	20	PASS
			NV	10	-125000.00	-17.946877	20	PASS
			NV	0	-120000.00	-17.033357	20	PASS
			NV	50	-80000.00	-11.355571	20	PASS
			NV	40	-80000.00	-11.355571	20	PASS
			NV	30	-80000.00	-11.355571	20	PASS
			NV	10	-120000.00	-17.033357	20	PASS
			NV	-10	-120000.00	-17.033357	20	PASS
	Ant2	7045	NV	-20	-120000.00	-17.033357	20	PASS
			NV	-30	-120000.00	-17.033357	20	PASS
			NV	20	-120000.00	-17.033357	20	PASS
			NV	20	-120000.00	-17.033357	20	PASS
			NV	10	-80000.00	-11.355571	20	PASS
			NV	30	-120000.00	-17.033357	20	PASS
			NV	50	-120000.00	-17.033357	20	PASS
			NV	-10	-80000.00	-11.355571	20	PASS
11AX80MIMO	Ant1	5985	NV	-20	-80000.00	-11.355571	20	PASS
			NV	-30	-80000.00	-11.355571	20	PASS
			NV	0	-120000.00	-17.033357	20	PASS
			NV	40	-120000.00	-17.033357	20	PASS
			NV	10	-80000.00	-13.366750	20	PASS

			NV	-10	-80000.00	-13.366750	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-30	-80000.00	-13.366750	20	PASS
			NV	20	-80000.00	-13.366750	20	PASS
	Ant2	5985	NV	30	-93900.00	-15.689223	20	PASS
			NV	0	-91900.00	-15.355054	20	PASS
			NV	50	-94900.00	-15.856307	20	PASS
			NV	40	-93900.00	-15.689223	20	PASS
			NV	-30	-89900.00	-15.020886	20	PASS
			NV	-10	-90900.00	-15.187970	20	PASS
			NV	-20	-90900.00	-15.187970	20	PASS
			NV	20	-92900.00	-15.522139	20	PASS
			NV	10	-92900.00	-15.522139	20	PASS
	Ant1	6145	NV	0	-99900.00	-16.257120	20	PASS
			NV	50	-100900.00	-16.419854	20	PASS
			NV	40	-100900.00	-16.419854	20	PASS
			NV	30	-100900.00	-16.419854	20	PASS
			NV	10	-100900.00	-16.419854	20	PASS
			NV	-10	-99900.00	-16.257120	20	PASS
			NV	-20	-99900.00	-16.257120	20	PASS
			NV	-30	-98900.00	-16.094386	20	PASS
	Ant2	6145	NV	20	-100900.00	-16.419854	20	PASS
			NV	0	-101900.00	-16.582587	20	PASS
			NV	30	-101900.00	-16.582587	20	PASS
			NV	50	-101900.00	-16.582587	20	PASS
			NV	40	-101900.00	-16.582587	20	PASS
			NV	-30	-101900.00	-16.582587	20	PASS
			NV	20	-101900.00	-16.582587	20	PASS
			NV	-10	-101900.00	-16.582587	20	PASS
	Ant1	6385	NV	-20	-101900.00	-16.582587	20	PASS
			NV	10	-101900.00	-16.582587	20	PASS
			NV	0	-106900.00	-16.742365	20	PASS
			NV	50	-106900.00	-16.742365	20	PASS
			NV	40	-107900.00	-16.898982	20	PASS
			NV	30	-106900.00	-16.742365	20	PASS
			NV	10	-106900.00	-16.742365	20	PASS
			NV	-10	-106900.00	-16.742365	20	PASS
	Ant2	6385	NV	-20	-106900.00	-16.742365	20	PASS
			NV	-30	-106900.00	-16.742365	20	PASS
			NV	20	-106900.00	-16.742365	20	PASS
			NV	0	-106900.00	-16.742365	20	PASS
			NV	40	-106900.00	-16.742365	20	PASS
			NV	30	-106900.00	-16.742365	20	PASS
			NV	50	-106900.00	-16.742365	20	PASS
			NV	-10	-106900.00	-16.742365	20	PASS
	Ant1	6465	NV	-20	-107900.00	-16.898982	20	PASS
			NV	-30	-107900.00	-16.898982	20	PASS
			NV	20	-106900.00	-16.742365	20	PASS
			NV	10	-106900.00	-16.742365	20	PASS
			NV	0	-111900.00	-17.308585	20	PASS
			NV	50	-111900.00	-17.308585	20	PASS
			NV	40	-111900.00	-17.308585	20	PASS
			NV	30	-111900.00	-17.308585	20	PASS
	Ant2	6465	NV	10	-111900.00	-17.308585	20	PASS
			NV	-10	-110900.00	-17.153906	20	PASS
			NV	-20	-110900.00	-17.153906	20	PASS
			NV	-30	-110900.00	-17.153906	20	PASS
			NV	20	-111900.00	-17.308585	20	PASS
			NV	10	-111900.00	-17.308585	20	PASS
	Ant2	6465	NV	30	-111900.00	-17.308585	20	PASS
			NV	50	-111900.00	-17.308585	20	PASS
			NV	-10	-111900.00	-17.308585	20	PASS
			NV	-20	-111900.00	-17.308585	20	PASS
			NV	-30	-111900.00	-17.308585	20	PASS

			NV	-30	-111900.00	-17.308585	20	PASS
			NV	0	-111900.00	-17.308585	20	PASS
			NV	40	-111900.00	-17.308585	20	PASS
	Ant1	6545	NV	0	-109900.00	-16.791444	20	PASS
			NV	50	-109900.00	-16.791444	20	PASS
			NV	40	-109900.00	-16.791444	20	PASS
			NV	30	-109900.00	-16.791444	20	PASS
			NV	10	-109900.00	-16.791444	20	PASS
			NV	-10	-110900.00	-16.944232	20	PASS
			NV	-20	-110900.00	-16.944232	20	PASS
			NV	-30	-110900.00	-16.944232	20	PASS
			NV	20	-109900.00	-16.791444	20	PASS
			NV	30	-109900.00	-16.791444	20	PASS
			NV	0	-109900.00	-16.791444	20	PASS
	Ant2	6545	NV	50	-110900.00	-16.944232	20	PASS
			NV	40	-109900.00	-16.791444	20	PASS
			NV	-30	-110900.00	-16.944232	20	PASS
			NV	-10	-109900.00	-16.791444	20	PASS
			NV	-20	-109900.00	-16.791444	20	PASS
			NV	20	-109900.00	-16.791444	20	PASS
			NV	10	-110900.00	-16.944232	20	PASS
			NV	0	-111900.00	-16.689038	20	PASS
	Ant1	6705	NV	50	-111900.00	-16.689038	20	PASS
			NV	40	-111900.00	-16.689038	20	PASS
			NV	30	-111900.00	-16.689038	20	PASS
			NV	10	-111900.00	-16.689038	20	PASS
			NV	-10	-111900.00	-16.689038	20	PASS
			NV	-20	-111900.00	-16.689038	20	PASS
			NV	-30	-111900.00	-16.689038	20	PASS
			NV	20	-111900.00	-16.689038	20	PASS
	Ant2	6705	NV	20	-110900.00	-16.539896	20	PASS
			NV	10	-110900.00	-16.539896	20	PASS
			NV	30	-110900.00	-16.539896	20	PASS
			NV	50	-111900.00	-16.689038	20	PASS
			NV	-10	-110900.00	-16.539896	20	PASS
			NV	-20	-110900.00	-16.539896	20	PASS
			NV	-30	-111900.00	-16.689038	20	PASS
			NV	0	-111900.00	-16.689038	20	PASS
	Ant1	6865	NV	40	-111900.00	-16.689038	20	PASS
			NV	0	-112900.00	-16.445739	20	PASS
			NV	50	-112900.00	-16.445739	20	PASS
			NV	40	-112900.00	-16.445739	20	PASS
			NV	30	-112900.00	-16.445739	20	PASS
			NV	10	-112900.00	-16.445739	20	PASS
			NV	-10	-112900.00	-16.445739	20	PASS
			NV	-20	-112900.00	-16.445739	20	PASS
	Ant2	6865	NV	-30	-112900.00	-16.445739	20	PASS
			NV	20	-112900.00	-16.445739	20	PASS
			NV	10	-112900.00	-16.445739	20	PASS
			NV	20	-113900.00	-16.591406	20	PASS
			NV	30	-113900.00	-16.591406	20	PASS
			NV	50	-113900.00	-16.591406	20	PASS
			NV	-10	-112900.00	-16.445739	20	PASS
			NV	-20	-112900.00	-16.445739	20	PASS
	Ant1	6945	NV	-30	-113900.00	-16.591406	20	PASS
			NV	40	-113900.00	-16.591406	20	PASS
			NV	0	-112900.00	-16.445739	20	PASS
			NV	20	-120900.00	-17.408207	20	PASS
			NV	50	-120900.00	-17.408207	20	PASS
			NV	30	-120900.00	-17.408207	20	PASS
			NV	10	-120900.00	-17.408207	20	PASS
			NV	0	-120900.00	-17.408207	20	PASS
			NV	-10	-119900.00	-17.264219	20	PASS
			NV	-20	-119900.00	-17.264219	20	PASS

			NV	-30	-118900.00	-17.120230	20	PASS
			NV	40	-120900.00	-17.408207	20	PASS
	Ant2	6945	NV	50	-120900.00	-17.408207	20	PASS
			NV	-30	-120900.00	-17.408207	20	PASS
			NV	-20	-120900.00	-17.408207	20	PASS
			NV	-10	-120900.00	-17.408207	20	PASS
			NV	0	-120900.00	-17.408207	20	PASS
			NV	10	-120900.00	-17.408207	20	PASS
			NV	20	-120900.00	-17.408207	20	PASS
			NV	30	-120900.00	-17.408207	20	PASS
			NV	40	-120900.00	-17.408207	20	PASS

5.8 Contention Based Protocol

Ambient condition:

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

Method of Measurement:

a) Simulating Incumbent Signal

The incumbent signal is assumed to be noise-like. One example of such transmission could be Digital Video Broadcasting (DVB) systems that use Orthogonal Frequency Division Multiplexing (OFDM). Incumbent systems may also use different bandwidths for their transmissions. A 10 MHz-wide additive white Gaussian noise (AWGN) signal is selected to simulate and represent incumbent transmission.

b) Required number of tests

Incumbent and EUT (access point, subordinate, or client) signals may occupy different channel portions. Depending on the EUT transmission bandwidth and incumbent signal center frequency (simulated by a 10 MHz-wide AWGN signal), the center frequency of the EUT signal may fall within the incumbent's occupied bandwidth (Figure 1. a), or outside of it (Figure 1. b).

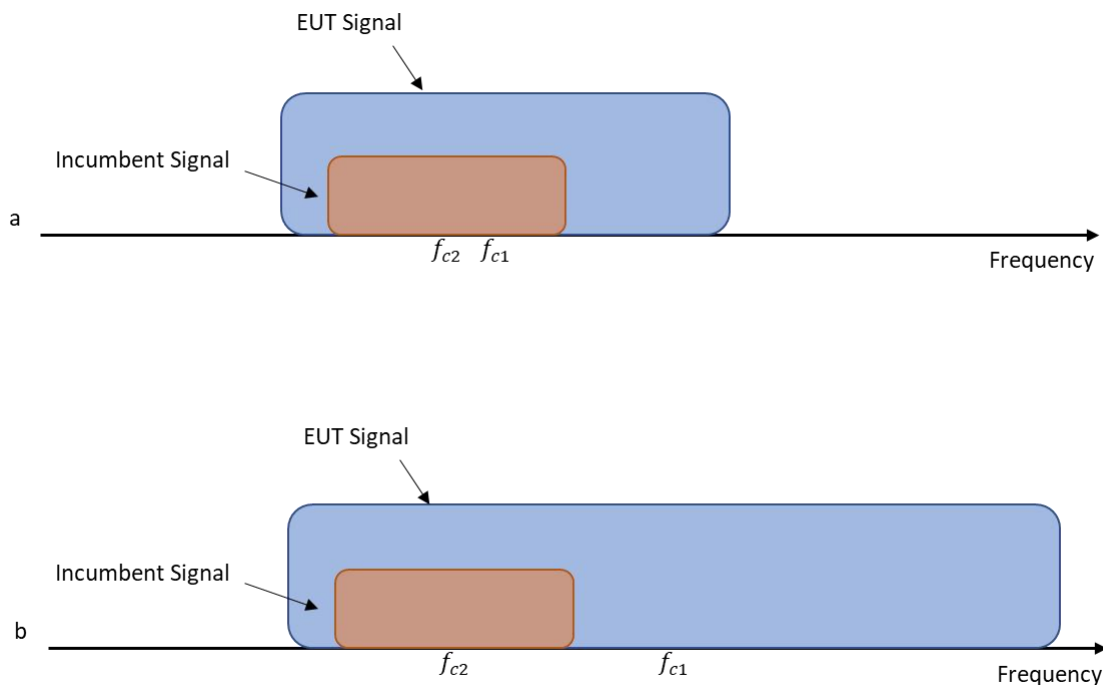


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within the incumbent's bandwidth, or b) outside of it

To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency.) tuned to different center frequencies within the EUT transmission bandwidth. The criteria specified in Table 1 determine how many times the detection threshold test must be performed.

Table 1. Criteria to determine the number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} < BW_{Inc}$	1	Tune incumbent and EUT transmissions ($f_{c1}=f_{c2}$)
$BW_{Inc} < BW_{EUT} < 2BW_{Inc}$	1	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} < 4BW_{Inc}$	2 (Incumbent transmission is contained within BW_{EUT})	Incumbent transmission is close to the EUT channel's lower and upper edges.
$BW_{EUT} > 4BW_{Inc}$	3	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of the EUT channel, and as closely as possible to the upper edge of the EUT channel.
Where: BW_{EUT} : Transmission bandwidth of EUT signal BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal) f_{c1} : The center frequency of EUT transmission f_{c2} : Center frequency of the simulated incumbent signal		

c) Test Setup

The first step is configuring the EUT to transmit with a constant duty cycle to ensure it can detect co-channel energy.² A signal generator (or similar source) capable of generating band-limited additive white Gaussian noise (AWGN) is required to simulate an incumbent signal. Depending on the EUT antenna configuration, the AWGN signal can be provided to the EUT receiver via a conducted method (Figure 2) or a radiated method (Figure 3). Figure 2 shows the test setup conducted where a band-limited AWGN signal was generated at a shallow power level and injected into the EUT's antenna port. The AWGN signal power level is then incrementally increased. At the same time, the EUT transmission is monitored on a signal analyzer ² to verify if the EUT can sense the AWGN signal and subsequently cease its transmission. A triggered measurement, as shown in Figure 2, is optional and assists with determining the time it takes the EUT to stop transmission (or vacate the channel) upon detecting RF energy. If the EUT has only one antenna port, an AWGN signal source can be connected to the same antenna port.

d) Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the EUT's operating parameters, including power level, operating frequency, modulation, and bandwidth.

3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The signal analyzer's span range shall be between two times and five times the EUT's OBW. Connect the EUT's output port to signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to prevent the signal analyzer two receiver overloading.

4. Monitor signal analyzer two and verify that the EUT operates and transmits with the parameters set in step 2.

5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.

6. Set the AWGN signal power to a shallow level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source via a 3-dB splitter to signal analyzer one and the EUT, as shown in Figure 2.

7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

8. Monitor signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, incrementally increase the AWGN signal power level until it stops transmitting.

9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least ten times to verify the EUT can detect an AWGN signal with a 90% (or better) level of certainty.

10. Refer to Table 1 to determine the number of times the detection threshold testing needs to be repeated. If testing is required more than once, go back to step 5, choose a different center frequency for the AWGN signal, and repeat the process.

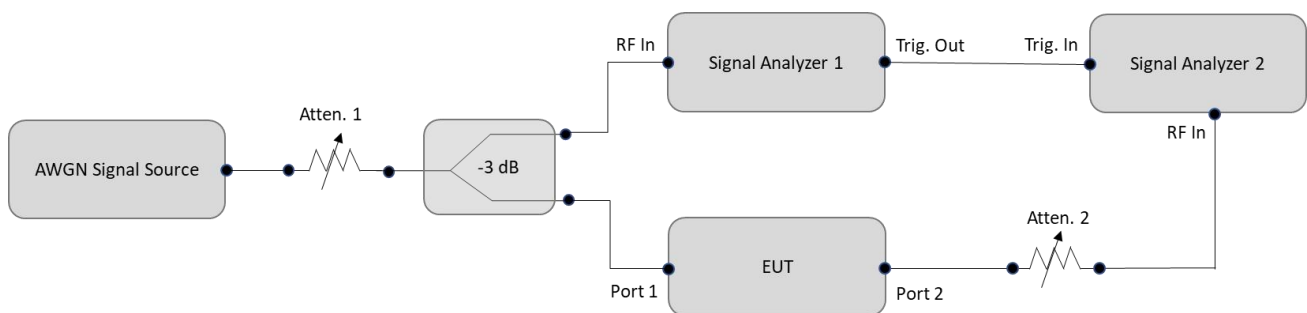


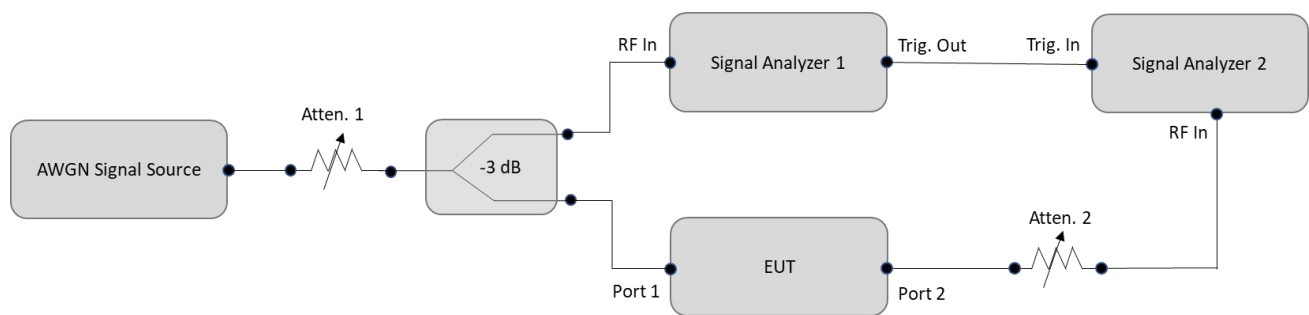
Figure 2. Contention-based protocol test setup conducted method

Limits:

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission. Unlicensed

low-power indoor devices must detect co-channel radio frequency power that is atleast -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoordevices must vacate the channel (in which incumbent signal is transmitted) and stay off theincumbent channel as long as detected radio frequency power is equal to or greater than thethreshold (-62 dBm)1. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.To ensure incumbent operations are reliably detected in the band, low power indoor devices mustdetect RF energy throughout their intended operating channel. For example, an 802.11 devicethat plans to transmit a 40 MHz- wide sianal (on a primary 20 MHz channel and a secondary 20MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-powerindoor devices must detect co-channel energy with 90% or greatercertainty.

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	Frequency [MHz]	Reading [dBm]	Gain [dBi]	Result [dBm]	Limit [dBm]	Verdict
11AX20MIMO	Ant1	6175	6175	-62.46	2.92	-65.38	-62	PASS
	Ant1	6475	6475	-62.18	2.92	-65.10	-62	PASS
	Ant1	6695	6695	-62.22	2.92	-65.14	-62	PASS
	Ant1	6995	6995	-62.60	2.92	-65.52	-62	PASS
11AX80MIMO	Ant1	6145	6110	-62.05	2.92	-64.97	-62	PASS
	Ant1		6145	-62.39	2.92	-65.31	-62	PASS
	Ant1		6180	-62.21	2.92	-65.13	-62	PASS
	Ant1	6465	6430	-61.58	2.92	-64.50	-62	PASS
	Ant1		6465	-61.30	2.92	-64.22	-62	PASS
	Ant1		6500	-61.40	2.92	-64.32	-62	PASS
	Ant1	6705	6670	-62.05	2.92	-64.97	-62	PASS
	Ant1		6705	-62.09	2.92	-65.01	-62	PASS
	Ant1		6740	-62.14	2.92	-65.06	-62	PASS
	Ant1	6945	6910	-62.30	2.92	-65.22	-62	PASS
	Ant1		6945	-63.43	2.92	-66.35	-62	PASS
	Ant1		6980	-62.12	2.92	-65.04	-62	PASS

TestMode	Antenna	Channel	Interference Frequency [MHz]		Test Time	Is Detected	Verdict
11AX20MIMO	Ant1	6175	Center	6175	1	Yes	PASS
			Center	6175	2	Yes	PASS
			Center	6175	3	Yes	PASS
			Center	6175	4	Yes	PASS
			Center	6175	5	Yes	PASS
			Center	6175	6	Yes	PASS
			Center	6175	7	Yes	PASS
			Center	6175	8	Yes	PASS
			Center	6175	9	Yes	PASS
			Center	6175	10	Yes	PASS
		6475	Center	6475	1	Yes	PASS
			Center	6475	2	Yes	PASS
			Center	6475	3	Yes	PASS
			Center	6475	4	Yes	PASS
			Center	6475	5	Yes	PASS
			Center	6475	6	Yes	PASS
			Center	6475	7	Yes	PASS
			Center	6475	8	Yes	PASS
			Center	6475	9	Yes	PASS
			Center	6475	10	Yes	PASS
		6695	Center	6695	1	Yes	PASS
			Center	6695	2	Yes	PASS
			Center	6695	3	Yes	PASS
			Center	6695	4	Yes	PASS
			Center	6695	5	Yes	PASS
			Center	6695	6	Yes	PASS
			Center	6695	7	Yes	PASS
			Center	6695	8	Yes	PASS
			Center	6695	9	Yes	PASS
			Center	6695	10	Yes	PASS
		6995	Center	6995	1	Yes	PASS
			Center	6995	2	Yes	PASS
			Center	6995	3	Yes	PASS
			Center	6995	4	Yes	PASS
			Center	6995	5	Yes	PASS
			Center	6995	6	Yes	PASS

			Center	6995	7	Yes	PASS
			Center	6995	8	Yes	PASS
			Center	6995	9	Yes	PASS
			Center	6995	10	Yes	PASS
11AX80MIMO	Ant1	6145	Low	6110	1	Yes	PASS
			Low	6110	2	Yes	PASS
			Low	6110	3	Yes	PASS
			Low	6110	4	Yes	PASS
			Low	6110	5	Yes	PASS
			Low	6110	6	Yes	PASS
			Low	6110	7	Yes	PASS
			Low	6110	8	Yes	PASS
			Low	6110	9	Yes	PASS
			Low	6110	10	Yes	PASS
			Center	6145	1	Yes	PASS
			Center	6145	2	Yes	PASS
			Center	6145	3	Yes	PASS
			Center	6145	4	Yes	PASS
			Center	6145	5	Yes	PASS
			Center	6145	6	Yes	PASS
			Center	6145	7	Yes	PASS
			Center	6145	8	Yes	PASS
			Center	6145	9	Yes	PASS
			Center	6145	10	Yes	PASS
			High	6180	1	Yes	PASS
			High	6180	2	Yes	PASS
			High	6180	3	Yes	PASS
			High	6180	4	Yes	PASS
			High	6180	5	Yes	PASS
			High	6180	6	Yes	PASS
			High	6180	7	Yes	PASS
			High	6180	8	Yes	PASS
			High	6180	9	Yes	PASS
			High	6180	10	Yes	PASS
		6465	Low	6430	1	Yes	PASS
			Low	6430	2	Yes	PASS
			Low	6430	3	Yes	PASS
			Low	6430	4	Yes	PASS
			Low	6430	5	Yes	PASS
			Low	6430	6	Yes	PASS
			Low	6430	7	Yes	PASS
			Low	6430	8	Yes	PASS
			Low	6430	9	Yes	PASS
			Low	6430	10	Yes	PASS
			Center	6465	1	Yes	PASS
			Center	6465	2	Yes	PASS
			Center	6465	3	Yes	PASS
			Center	6465	4	Yes	PASS
			Center	6465	5	Yes	PASS
			Center	6465	6	Yes	PASS
			Center	6465	7	Yes	PASS
			Center	6465	8	Yes	PASS
			Center	6465	9	Yes	PASS
			Center	6465	10	Yes	PASS
			High	6500	1	Yes	PASS
			High	6500	2	Yes	PASS
			High	6500	3	Yes	PASS
			High	6500	4	Yes	PASS
			High	6500	5	Yes	PASS
			High	6500	6	Yes	PASS
			High	6500	7	Yes	PASS
			High	6500	8	Yes	PASS
			High	6500	9	Yes	PASS

			High	6500	10	Yes	PASS
			Low	6670	1	Yes	PASS
		6705	Low	6670	2	Yes	PASS
			Low	6670	3	Yes	PASS
			Low	6670	4	Yes	PASS
			Low	6670	5	Yes	PASS
			Low	6670	6	Yes	PASS
			Low	6670	7	Yes	PASS
			Low	6670	8	Yes	PASS
			Low	6670	9	Yes	PASS
			Low	6670	10	Yes	PASS
			Center	6705	1	Yes	PASS
			Center	6705	2	Yes	PASS
			Center	6705	3	Yes	PASS
			Center	6705	4	Yes	PASS
			Center	6705	5	Yes	PASS
			Center	6705	6	Yes	PASS
			Center	6705	7	Yes	PASS
			Center	6705	8	Yes	PASS
			Center	6705	9	Yes	PASS
			Center	6705	10	Yes	PASS
			High	6740	1	Yes	PASS
			High	6740	2	Yes	PASS
			High	6740	3	Yes	PASS
			High	6740	4	Yes	PASS
			High	6740	5	Yes	PASS
			High	6740	6	Yes	PASS
			High	6740	7	Yes	PASS
			High	6740	8	Yes	PASS
			High	6740	9	Yes	PASS
			High	6740	10	Yes	PASS
		6945	Low	6910	1	Yes	PASS
			Low	6910	2	Yes	PASS
			Low	6910	3	Yes	PASS
			Low	6910	4	Yes	PASS
			Low	6910	5	Yes	PASS
			Low	6910	6	Yes	PASS
			Low	6910	7	Yes	PASS
			Low	6910	8	Yes	PASS
			Low	6910	9	Yes	PASS
			Low	6910	10	Yes	PASS
			Center	6945	1	Yes	PASS
			Center	6945	2	Yes	PASS
			Center	6945	3	Yes	PASS
			Center	6945	4	Yes	PASS
			Center	6945	5	Yes	PASS
			Center	6945	6	Yes	PASS
			Center	6945	7	Yes	PASS
			Center	6945	8	Yes	PASS
			Center	6945	9	Yes	PASS
			Center	6945	10	Yes	PASS
			High	6980	1	Yes	PASS
			High	6980	2	Yes	PASS
			High	6980	3	Yes	PASS
			High	6980	4	Yes	PASS
			High	6980	5	Yes	PASS
			High	6980	6	Yes	PASS
			High	6980	7	Yes	PASS
			High	6980	8	Yes	PASS
			High	6980	9	Yes	PASS
			High	6980	10	Yes	PASS

6. Appendix X

Test Equipment	Type/Mode	SERIAL NO.	Equipment No.	Manufacturer	Cal. Due
Communication Shielded Room 2	4m*3m*3m	CRTDSWKS44301	/	CRT	2027/04/22
Spectrum Analyzer	FSV40	101580	DZ-000238-3	R&S	2026/03/27
RF Radio Frequency Switch	JS0806-2	19H9080187	DZ-000241	Tonscend	2026/03/27
Programmable DC Power Supply	E3644A	MY58036222	DZ-000178	KEYSIGHT	2026/04/10
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	2025/12/26
EMI Test Receiver	ESR7	102235	EM-000574	R&S	2026/01/05
loop antenna	HLA 6121	540046	EM-000546	TESEQ	2025/06/04
Broadband Antenna	VULB 9163	9163-530	EM-000342	SCHWARZBECK	2025/06/09
Waveguide Horn Antenna	BBHA9170	00949	DZ-000209-2	SCHWARZBECK	2025/08/03
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2025/06/02
5G Bandstop Filters	WRCJV12-4900-5100-5900-6100-50EE	1	DZ-000186	WI	2025/12/02
Preamplifier	BBV 9721	9721-050	DZ-000209-1	SCHWARZBECK	2025/06/03
Temperature and humidity meter	MHO-C201	/	DZ-000249-2	Seconds test	2025/07/28
Temperature and humidity meter	MHO-C201	/	DZ-000249-5	Seconds test	2025/07/28
Spread spectrum unit	TS-WF7U2	24K806WF7U956	DZ-000459-1	Tonscend	2025/12/02
UXA signal analyzer	N9040B	US57212256	DZ-000466	KEYSIGHT	2025/12/17
Analog Signal Generator	N5173B	MY62220706	DZ-000452-2	KEYSIGHT	2025/06/02
Vector Signal Generator	N5182B	MY62220587	DZ-000452-1	KEYSIGHT	2025/06/02

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

————— No Body Text Below —————

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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

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