

TEST REPORT

Applicant: Datalogic S.r.l.
EUT Description: MOBILE COMPUTER/BARCODE READER
Model: CMFQWF
Brand: DATALOGIC
FCC ID: U4G-CMFQWF
Standards: FCC 47 CFR Part 15 Subpart E
Date of Receipt: 2026/01/06
Date of Test: 2026/01/06 to 2026/02/04
Date of Issue: 2026/03/06

TOWE. Tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. Without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2026/02/04	Original	Carey Chen
02	2026/03/06	1. Added a description in section 4.8 on page 26, and include RBW-Factor data in the PSD Test Result table. 2. Updated, Added RSE 18-25GHz data on pages 328-329.	Carey Chen

Summary of Test Results

Clause	FCC Part	Test Items	Test Bands	Result
4.1	§15.203	Antenna Requirement	---	PASS
4.2	§15.407(g)	Frequency Stability	---	---
4.3	§15.207	AC Power Line Conducted Emission	Section 2.2	PASS
4.4	§15.407(a)(1)(iv) §15.407(a)(2) §15.407(a)(3)(i)	Maximum Conducted Output Power	U-NII-1 U-NII-2A U-NII-2C U-NII-3	PASS
4.5	§KDB 789033 II.C.1	Emission Bandwidth	U-NII-1 U-NII-2A U-NII-2C	Reporting purposes only
4.6	§15.407(e)	Minimum Emission Bandwidth	U-NII-3	PASS
4.7	§KDB 789033 II.D	Occupied Bandwidth	U-NII-1 U-NII-2A U-NII-2C U-NII-3	Reporting purposes only
4.8	§15.407(a)(1)(iv) §15.407(a)(2) §15.407(a)(3)(i)	Maximum Power Spectral Density	U-NII-1 U-NII-2A U-NII-2C U-NII-3	PASS
4.9	§15.407(b) §15.209(d)	Unwanted Emissions	U-NII-1 U-NII-2A U-NII-2C U-NII-3	PASS
Test Method: ANSI C63.10:2020, KDB 789033 D02 General UNII Test Procedures New Rules v02r01				
Remark: Pass is EUT meets standard requirements.				

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. Facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. Has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. Has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Datalogic S.r.l.
Address:	Via San Vitalino, 13 40012 Lippo di Calderara di Reno (BO) - Italy

1.2.2 Manufacturer

Manufacturer:	Datalogic S.r.l.
Address:	Via San Vitalino, 13 40012 Lippo di Calderara di Reno (BO) - Italy

1.3 Product Information

EUT Description:	MOBILE COMPUTER/BARCODE READER			
Model:	CMFQWF			
Brand:	DATALOGIC			
Hardware Version:	V3			
Software Version:	3.21.000.20260114			
SN.:	RF Conducted	4cee9eb7		
	RSE & AC power line	dbb88090		
Modulation Type:	802.11a/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM		
	802.11ac:	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM		
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM		
Smart System:	☐ SISO	802.11a/n/ac/ax	/	
	☒ MIMO	802.11n/ac/ax	(2)TX(2)RX	
	☒ CDD	802.11a	(2)TX(2)RX	
EUT Function:	☒ Client	☐ Outdoor AP	☐ Indoor AP	☐ Fixed P2P AP
Partial RU:	☒ Support	☐ No Support		
DFS Function:	☐ Master ☐ Slave with radar detection ☒ Slave without radar detection			
Frequency Range:	U-NII-1:	5150 ~ 5250MHz		
	U-NII-2A:	5250 ~ 5350MHz		
	U-NII-2C:	5470 ~ 5725MHz		
	U-NII-3:	5725 ~ 5850MHz		
Channel Frequency:	20M BWch.:	U-NII-1:	5180 ~ 5240MHz	4 Channels
		U-NII-2A:	5260 ~ 5320MHz	4 Channels
		U-NII-2C:	5500 ~ 5700MHz	11 Channels
		U-NII-3:	5745 ~ 5825MHz	5 Channels
		Straddle Channel:	5720MHz	1 Channel
	40M BWch.:	U-NII-1:	5190 ~ 5230MHz	2 Channels
		U-NII-2A:	5270 ~ 5310MHz	2 Channels
		U-NII-2C:	5510 ~ 5670MHz	5 Channels
		U-NII-3:	5755 ~ 5795MHz	2 Channels
		Straddle Channel:	5710MHz	1 Channel
	80M BWch.:	U-NII-1:	5210MHz	1 Channel
		U-NII-2A:	5290MHz	1 Channel
		U-NII-2C:	5530 ~ 5610MHz	2 Channels
		U-NII-3:	5775MHz	1 Channel
		Straddle Channel:	5690MHz	1 Channel
	160M BWch.:	U-NII-2A:	5250MHz	1 Channel
		U-NII-2C:	5570MHz	1 Channel
Antenna Type:	☐ External, ☒ Integrated			

Antenna Gain:	Ant2 (dBi)	Ant3 (dBi)
	-0.2	-2.2
Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.		

2 Test Configuration

2.1 Test Channel

Frequency Channels for U-NII-1							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	40	5200MHz	44	5220MHz	48	5240MHz
38	5190MHz	42	5210MHz	46	5230MHz	/	
Remark: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Modulation Type		Test Channel		Test Frequency			
802.11a/n20 /ac20/ax20		The Lowest channel (CH36)		5180MHz			
		The Middle channel (CH40)		5200MHz			
		The Highest channel (CH48)		5240MHz			
Modulation Type		Test Channel		Test Frequency			
802.11n40 /ac40/ax40		The Lowest channel (CH38)		5190MHz			
		The Highest channel (CH46)		5230MHz			
Modulation Type		Test Channel		Test Frequency			
802.11 ac80/ax80		The Middle channel (CH42)		5210MHz			

Frequency Channels for U-NII-2A							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250MHz	54	5270MHz	58	5290MHz	62	5310MHz
52	5260MHz	56	5280MHz	60	5300MHz	64	5320MHz
Remark: In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:							
Modulation Type	Test Channel		Test Frequency				
802.11a/n20 /ac20/ax20	The Lowest channel (CH52)		5260MHz				
	The Middle channel (CH60)		5300MHz				
	The Highest channel (CH64)		5320MHz				
Modulation Type	Test Channel		Test Frequency				
802.11n40 /ac40/ax40	The Lowest channel (CH54)		5270MHz				
	The Highest channel (CH62)		5310MHz				
Modulation Type	Test Channel		Test Frequency				
802.11 ac80/ax80	The Middle channel (CH58)		5290MHz				
Modulation Type	Test Channel		Test Frequency				
802.11 ac160/ax160	The Middle channel (CH50)		5250MHz				

Frequency Channels for U-NII-2C							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
100	5500MHz	110	5550MHz	120	5600MHz	132	5660MHz
102	5510MHz	112	5560MHz	122	5610MHz	134	5670MHz
104	5520MHz	114	5570MHz	124	5620MHz	136	5680MHz
106	5530MHz	116	5580MHz	126	5630MHz	140	5700MHz
108	5540MHz	118	5590MHz	128	5640MHz	/	

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	Test Channel	Test Frequency
802.11a/n20 /ac20/ax20	The Lowest channel (CH100)	5500MHz
	The Middle channel (CH116)	5580MHz
	The Highest channel (CH140)	5700MHz
Modulation Type	Test Channel	Test Frequency
802.11n40 /ac40/ax40	The Lowest channel (CH102)	5510MHz
	The Middle channel (CH118)	5590MHz
	The Highest channel (CH134)	5670MHz
Modulation Type	Test Channel	Test Frequency
802.11 ac80/ax80	The Lowest channel (CH106)	5530MHz
	The Highest channel (CH122)	5610MHz
Modulation Type	Test Channel	Test Frequency
802.11 ac160/ax160	The Middle channel (CH114)	5570MHz

Frequency Channels for U-NII-3							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
151	5755MHz	155	5775MHz	159	5795MHz	165	5825MHz

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Modulation Type	Test Channel	Test Frequency
802.11a/n20 /ac20/ax20	The Lowest channel (CH149)	5745MHz
	The Middle channel (CH157)	5785MHz
	The Highest channel (CH165)	5825MHz
Modulation Type	Test Channel	Test Frequency
802.11n40 /ac40/ax40	The Lowest channel (CH151)	5755MHz
	The Highest channel (CH159)	5795MHz
Modulation Type	Test Channel	Test Frequency
802.11 ac80/ax80	The Middle channel (CH155)	5775MHz

Straddle Channel		
Modulation Type	Test Channel	Test Frequency
802.11a/n20 /ac20/ax20	The channel (CH144)	5720MHz
Modulation Type	Test Channel	Test Frequency
802.11n40 /ac40/ax40	The channel (CH142)	5710MHz
Modulation Type	Test Channel	Test Frequency
802.11 ac80/ax80	The channel (CH138)	5690MHz
Modulation Type	Test Channel	Test Frequency
802.11 ac160/ax160	The channel (CH50)	5250MHz

2.2 Worst-case configuration and Mode

Modulation Type	SISO - Data Rate	CDD/MIMO(2)TX(2)RX Data Rate
802.11a	N/A	12 Mbps
802.11n20	N/A	MCS0 (13 Mbps)
802.11n40	N/A	MCS0 (27 Mbps)
802.11ac20	N/A	MCS0 (13 Mbps)
802.11ac40	N/A	MCS0 (27 Mbps)
802.11ac80	N/A	MCS0 (58.6 Mbps)
802.11ac160	N/A	MCS0 (117 Mbps)
802.11ax20	N/A	MCS0 (17.2 Mbps)
802.11ax40	N/A	MCS0 (34.4 Mbps)
802.11ax80	N/A	MCS0 (72.1 Mbps)
802.11ax160	N/A	MCS0 (144.1 Mbps)
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

Remark: For 802.11n20/40 and 802.11ac20/40 mode, the whole testing have assessed only, 802.11ac20/40 by referring to their higher output power.

Test RU Types & Channel Bandwidth:

RU Types	ax20	ax40	ax80	ax160
26-tone RU	26 tone_0 26 tone_8	/	/	/
52-tone RU	52 tone_37 52 tone_40	/	/	/
106-tone RU	106 tone_53 106 tone_54	/	/	/
242-tone RU	/	242 tone 61 242 tone 62	/	/
484-tone RU	/	/	484 tone 65 484 tone 66	/
996-tone RU	/	/	/	996 tone 67 996 tone 68

2.3 Support Unit used in test

The EUT has been tested as an independent unit.

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C
Humidity:	45 ~ 56 % RH Ambient
Voltage:	DC 3.8V
AC Voltage:	AC 120V/60Hz for Conducted Emissions
Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.	

2.5 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

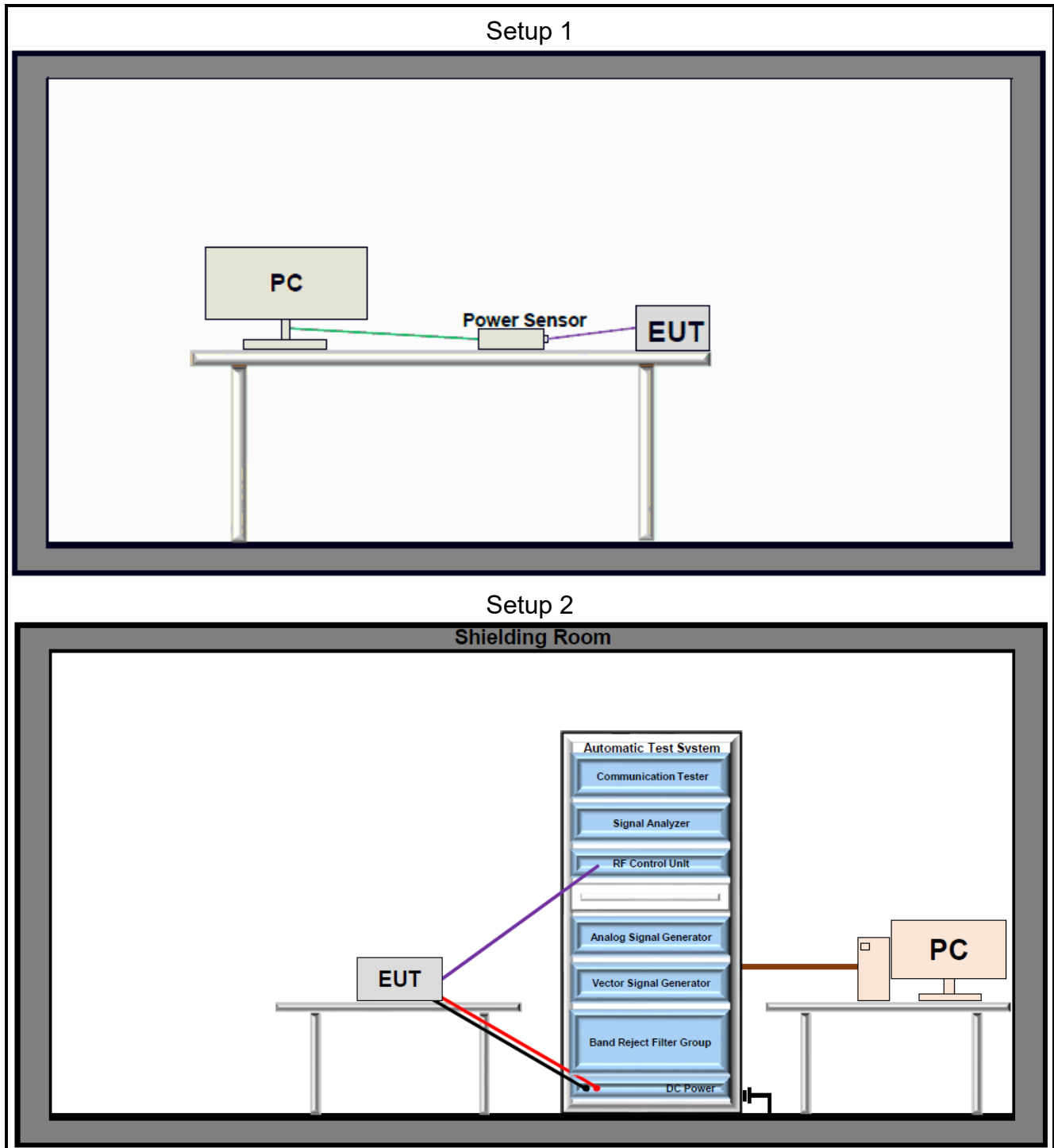
Offset = RF cable loss + attenuator factor.

2.6 Modifications

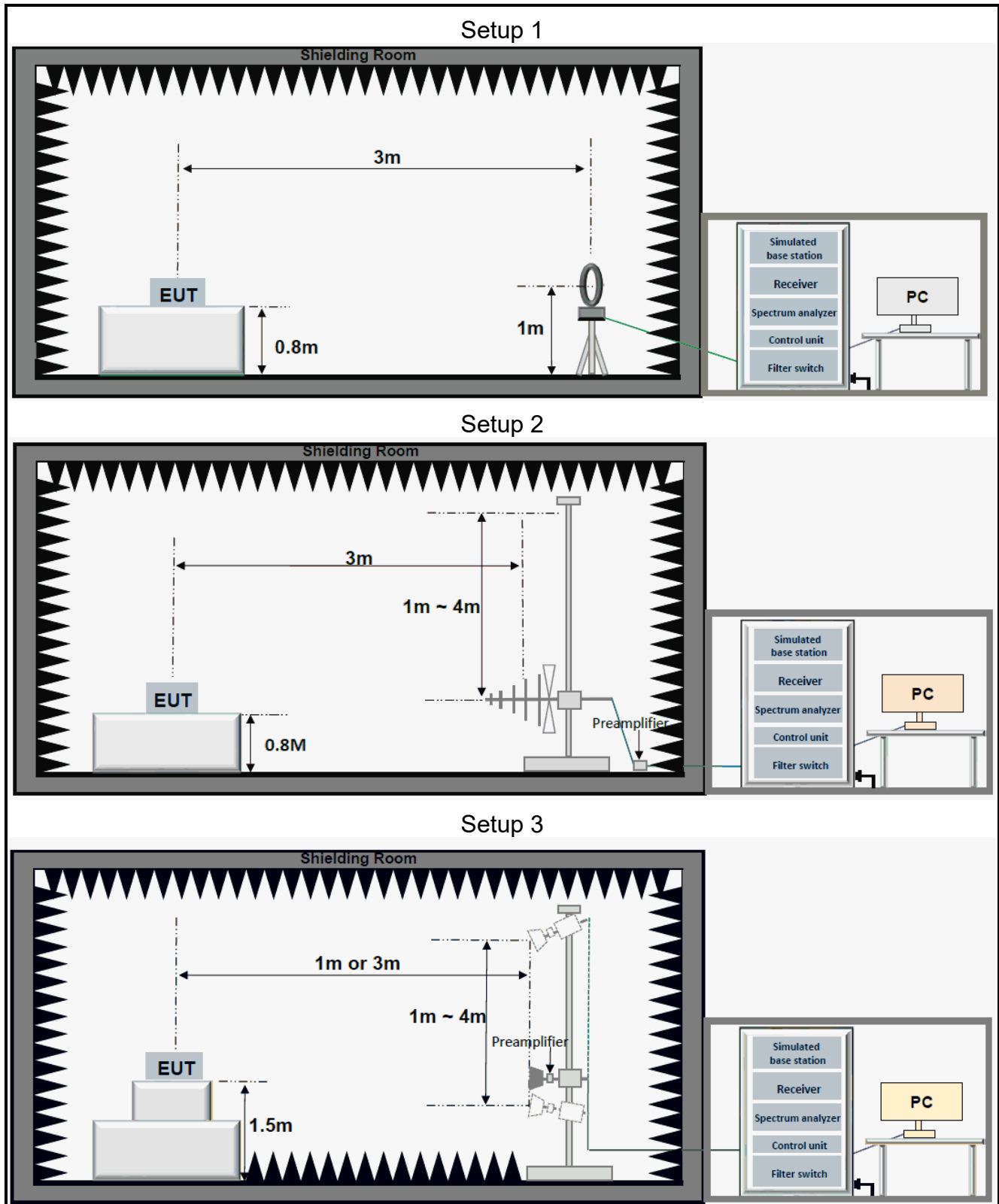
No modifications were made during testing.

2.7 Test Setup Diagram

2.7.1 Conducted Configuration



2.7.2 Radiated Configuration



Directional gain calculations:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}=1) \text{ dB or } 3 \text{ dB, whichever is less, for 20-MHz channel widths with } N_{ANT} \geq 5.$$

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

- If transmit signals are correlated, then

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

- If all transmit signals are completely uncorrelated, then

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}] \text{ dBi}$$

The Power and PSD limit should be modified if the directional gain of EUT is over 6dBi.

The EUT supports CDD System.

Transmit signals are completely uncorrelated						
Operation Band	ANT Gain2 (dBi)	ANT Gain3 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
U-NII-1	-0.2	-2.2	-0.2	-1.09	0	0
U-NII-2A	-0.2	-2.2	-0.2	-1.09	0	0
U-NII-2C	-0.2	-2.2	-0.2	-1.09	0	0
U-NII-3	-0.2	-2.2	-0.2	-1.09	0	0

3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

RF Conducted					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Signal Analyzer	Keysight	N9020A	US46470429	2025/03/14	2026/03/13
Signal Generator	R&S	SMR20	101027	2025/03/11	2026/03/10
Vector Signal Generator	R&S	SMM100A	549353	2025/05/29	2026/05/28
Power Sensor	Anritsu	MA24408A	12520	2025/05/29	2026/05/28
RF Control Unit	Tonscend	JS0806-2	23C80620671	2025/05/29	2026/05/28
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Attenuator	Yin Saige	SMA-10dBm	N/A	N/A	N/A
Measurement Software	Tonscend	TS1120-3	10659	N/A	N/A

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2026/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2026/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2026/06/24
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2026/06/28
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2025/05/29	2026/05/28
Wideband Radio Communication Tester	R&S	CMW500	150645	2025/03/11	2026/03/10
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10
Hygrometer	BINGYU	HTC-1	N/A	2025/07/25	2026/07/24
Band Reject Filter Group	Townshend	JS0806-F	23A806F0652	N/A	N/A
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

Conducted Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
EMI Tester Receiver	Rohde & Schwarz	ESR3	103108	2025/05/29	2026/05/28
LISN*	Rohde & Schwarz	ENV 216	102836	2025/01/04	2026/01/03
				2026/01/19	2027/01/18
Test software	Rohde & Schwarz	ELEKTRA V4.61	N/A	N/A	N/A

*There was no testing between 2026/01/03~2026/01/19.

3.2 Measurement Uncertainty

Parameter	U _{lab}
Frequency Error	679.98Hz
Output Power	0.76dB
Conducted Spurious Emissions	2.22dB
Conducted Emissions(150kHz~30MHz)	2.43dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Antenna Requirement

Standard Applicable:	47 CFR Part 15E Section 15.203
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.	
The antenna gain and type as provided by the manufacturer are as follows: The antenna Type is Integrated. With Antenna gain is -0.2dBi(Ant2); -2.2dBi(Ant3); Antenna Anti-Replacement Construction: An embedded-in antenna design is used.	

4.2 Frequency Stability

Standard Applicable:	47 CFR Part 15E Section 15.407(g)
Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.	

4.3 AC Power Line Conducted Emissions

Limits

Frequency range (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

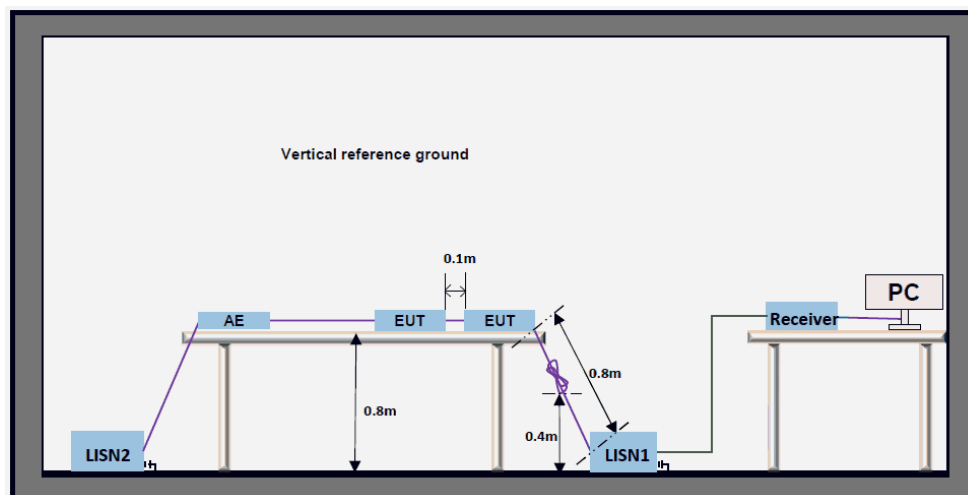
Test Procedure

ANSI C63.10:2020, Section 6.2.

Test Settings

1. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
3. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
4. Set the test-receiver system to Peak detect function and specified bandwidth (if bandwidth =9kHz) with maximum hold mode. Then measurement is also conducted by average detector and Quasi-Peak detector function respectively
5. Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Test Setup



Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result:

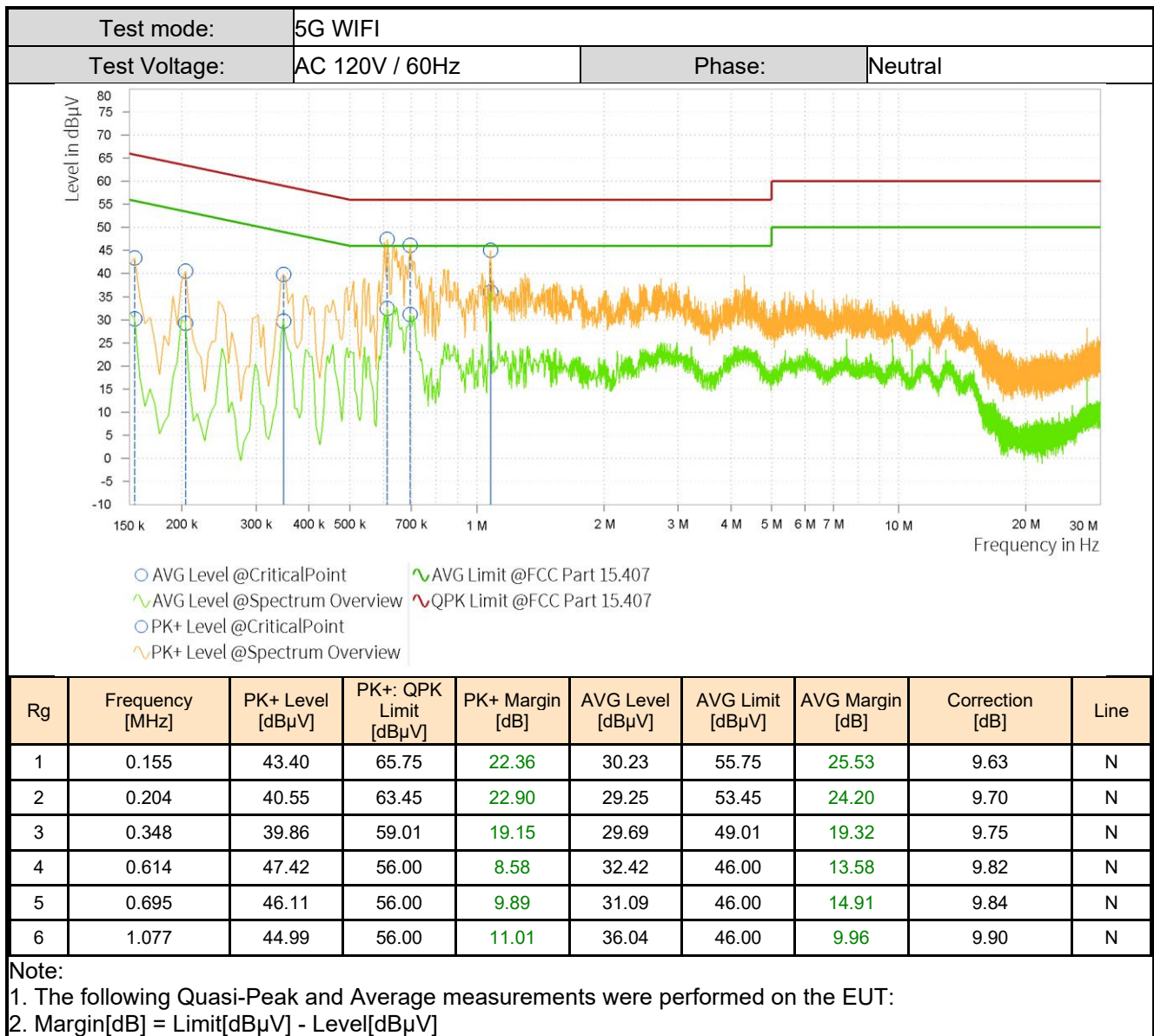
Test mode:	5G WIFI		
Test Voltage:	AC 120V / 60Hz	Phase:	Line



Rg	Frequency [MHz]	PK+ Level [dBμV]	PK+: QPK Limit [dBμV]	PK+ Margin [dB]	AVG Level [dBμV]	AVG Limit [dBμV]	AVG Margin [dB]	Correction [dB]	Line
1	0.204	39.16	63.45	24.28	27.14	53.45	26.31	9.53	L1
2	0.254	35.11	61.64	26.53	20.24	51.64	31.40	9.65	L1
3	0.344	36.22	59.12	22.90	23.84	49.12	25.27	9.59	L1
4	0.393	36.84	58.00	21.16	21.95	48.00	26.05	9.71	L1
5	0.497	35.89	56.06	20.17	20.19	46.06	25.87	9.68	L1
6	0.641	44.32	56.00	11.68	30.01	46.00	15.99	9.84	L1

Note:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- $\text{Margin[dB]} = \text{Limit[dB}\mu\text{V]} - \text{Level[dB}\mu\text{V]}$



4.4 Maximum Conducted Output Power

Limits

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

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

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.E.3.b (Other Channel)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.E.2.b(Straddle Channel)

Test Settings

1. PM-G:
Set to the maximum power setting and enable the EUT transmit continuously.
The power output was measured on the EUT antenna port using RF Cable with an attenuator connected to a power sensor. Output power was read directly from the power sensor.
Measure and record the results in the test report.
2. SA:
RBW = 1MHz
VBW $\geq$ 3MHz
Span = Encompass the EBW (or, alternatively, the entire 99% occupied bandwidth)
Sweep = Auto
Detector = power averaging (rms)

Test Setup

Refer to section 2.7.1 Setup 1 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.5 Emission Bandwidth

Limits

None, for reporting purposes only.

Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.C.1.

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The transmitter output is connected to a spectrum analyzer:
3. RBW = 1% - 5%(99%BW)
4. VBW = 3 times the RBW
5. Sweep = Auto
6. Detector = Peak
7. Trace = Max hold
8. The trace was allowed to stabilize
9. Measure and record the results in the test report.

Test Notes

The signal analyzers' automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X= 26. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

Test Setup

Refer to section 2.7.1 Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.6 Minimum Emission Bandwidth

Limits

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.C.2.

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The transmitter output is connected to a spectrum analyzer:
3. RBW = 100kHz(DTS)
4. VBW = 3 times the RBW
5. Sweep = Auto
6. Detector = Peak
7. Trace = Max hold
8. The trace was allowed to stabilize
9. Measure and record the results in the test report.

Test Notes

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.7 Occupied Bandwidth

Limits

None, for reporting purposes only.

Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.D.

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously.
2. The transmitter output is connected to a spectrum analyzer:
3. RBW = 1% - 5%(99%BW)
4. VBW = 3 times the RBW
5. Sweep = Auto
6. Detector = Peak
7. Trace = Max hold
8. The trace was allowed to stabilize
9. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.8 Maximum Power Spectral Density

Limits

For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1-megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

Test Procedure

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.F

Test Settings

1. Set to the maximum power setting and enable the EUT transmit continuously
2. The transmitter output is connected to a spectrum analyzer
3. RBW = 1MHz (for 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz)
4. RBW = 500kHz (for 5.725–5.85 GHz)
5. VBW ≥ 3 times RBW
6. Sweep = Auto
7. Detector = Peak
8. Trace = Max hold
9. The trace was allowed to stabilize
10. Measure and record the results in the test report.

Test Setup

Refer to section 2.7.1- Setup 2 for details.

Test Notes

For 5.725–5.85 GHz, the actual test RBW=300kHz, and the final result is converted through a formula:

$\text{RBW-Factor} = 10 * \log_{10}(\text{test RBW kHz} / \text{limit RBW kHz}) = 10 * \log_{10}(300\text{kHz} / 500\text{kHz}) = 2.22\text{dB}$.

The RBW Factor is compensated in the graph.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix**.

4.9 Unwanted Emissions

Limits

Spurious emissions are permitted in an of the frequency bands:

MHz	MHz	MHz	MHz	GHz	GHz
0.090 - 0.110	12.29 - 12.293	149.9 - 150.05	1660 - 1710	4.5 - 5.15	14.47 - 14.5
0.495 - 0.505	12.51975 - 12.52025	156.52475 - 156.52525	1718.8 - 1722.2	5.35 - 5.46	15.35 - 16.2
2.1735 - 2.1905	12.5767 - 12.57725	156.7 - 156.9	2200 - 2300	7.25 - 7.75	17.7 - 21.4
4.125 - 128	13.36 - 13.41	162.0125 - 167.17	2310 - 2390	8.025 - 8.5	22.01 - 23.12
4.17725 - 4.17775	16.42 - 16.423	167.72 - 173.2	2483.5 - 2500	9.0 - 9.2	23.6 - 24.0
4.20725 - 4.20775	16.69475 - 16.69525	240 - 285	2655 - 2900	9.3 - 9.5	31.2 - 31.8
6.215 - 6.218	1680425 - 1680475	322 - 335.4	3260 - 3267	10.6 - 12.7	36.43 - 36.5
6.26775 - 6.26825	25.5 - 25.67	399.9 - 410	3332 - 3339	13.25 - 13.4	
6.31175 - 6.31225	37.5 - 38.25	608 - 614	3345.8 - 3358		
8.291 - 8.294	73 - 74.6	960 - 1240	3600 - 4400		
8.362 - 8.366	74.8 - 75.2	1300 - 1427			
8.37625 - 8.38675	108 - 121.94	1435 - 1626.5			
8.41425 - 8.41475	123 - 138	1645.5 - 1646.5			

Radiated disturbance of an intentional radiator:

Frequency	Field strength ($\mu\text{V/m}$)	Limit (dB $\mu\text{V/m}$)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	74.0	Peak	3
		54.0	Average	

Un-restricted band emissions above 1GHz limit:

For transmitters operating in the 5.15-5.25 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band:

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band:

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

Test Procedure

ANSI C63.10:2020 Section 6.4 & 6.5 & 6.6.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II.G.3 ~ 6.

Test Settings

1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
4. For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
5. The simulated base station was set to force the EUT to its maximum transmitting power.
6. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
7. spectrum analyzer setting:
Measurements Below 1000MHz: RBW = 120 kHz; VBW ≥ 300 kHz; Detector = Peak
Measurements Above 1000MHz: RBW = 1 MHz; VBW ≥ 3 MHz; Detector = Peak
Average Measurements Above 1000MHz:
RBW = 1 MHz, VBW ≥ 1/T, with peak detector for average measurements.
8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + Factor(dB):
Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)
AF = Antenna Factor(dB/m)
Margin = Limit(dBμV/m) – Level(dBμV/m)
9. Repeat above procedures until all frequencies measured was complete.
10. Measure and record the results in the test report.

Test Notes

1. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
2. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz and was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
3. These frequencies which near "-" should be ignored because they are Fundamental frequency.

Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: **Appendix.**

5 Test Setup Photos

The detailed test data see: **Appendix A - BTWIFI Setup Photos**

Appendix

Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a-CDD	Ant2	5180	18.640	5170.640	5189.280	---	---
11a-CDD	Ant3	5180	19.360	5169.920	5189.280	---	---
11a-CDD	Ant2	5200	18.880	5190.360	5209.240	---	---
11a-CDD	Ant3	5200	31.880	5183.680	5215.560	---	---
11a-CDD	Ant2	5240	19.080	5230.360	5249.440	---	---
11a-CDD	Ant3	5240	18.560	5230.840	5249.400	---	---
11a-CDD	Ant2	5260	18.360	5250.840	5269.200	---	---
11a-CDD	Ant3	5260	19.160	5250.400	5269.560	---	---
11a-CDD	Ant2	5300	19.200	5290.400	5309.600	---	---
11a-CDD	Ant3	5300	18.880	5290.160	5309.040	---	---
11a-CDD	Ant2	5320	18.520	5310.920	5329.440	---	---
11a-CDD	Ant3	5320	19.880	5309.920	5329.800	---	---
11a-CDD	Ant2	5500	19.520	5490.040	5509.560	---	---
11a-CDD	Ant3	5500	31.760	5485.480	5517.240	---	---
11a-CDD	Ant2	5600	18.280	5590.800	5609.080	---	---
11a-CDD	Ant3	5600	18.920	5590.560	5609.480	---	---
11a-CDD	Ant2	5700	18.640	5690.560	5709.200	---	---
11a-CDD	Ant3	5700	18.480	5690.680	5709.160	---	---
11a-CDD	Ant2	5720	18.400	5710.760	5729.160	---	---
11a-CDD	Ant3	5720	18.560	5710.560	5729.120	---	---
11a-CDD	Ant2	5720 UNII-2C	14.24	5710.760	5725	---	---
11a-CDD	Ant3	5720 UNII-2C	14.44	5710.560	5725	---	---
11a-CDD	Ant2	5720 UNII-3	4.16	5725	5729.160	---	---
11a-CDD	Ant3	5720 UNII-3	4.12	5725	5729.120	---	---
11a-CDD	Ant2	5745	18.880	5735.640	5754.520	---	---
11a-CDD	Ant3	5745	18.760	5735.520	5754.280	---	---
11a-CDD	Ant2	5785	18.600	5775.560	5794.160	---	---
11a-CDD	Ant3	5785	20.880	5774.920	5795.800	---	---
11a-CDD	Ant2	5825	18.480	5815.800	5834.280	---	---
11a-CDD	Ant3	5825	18.640	5815.840	5834.480	---	---
11ac20MIMO	Ant2	5180	19.720	5170.120	5189.840	---	---
11ac20MIMO	Ant3	5180	19.840	5169.840	5189.680	---	---
11ac20MIMO	Ant2	5200	19.440	5190.280	5209.720	---	---
11ac20MIMO	Ant3	5200	20.000	5190.000	5210.000	---	---
11ac20MIMO	Ant2	5240	19.640	5230.240	5249.880	---	---
11ac20MIMO	Ant3	5240	19.800	5230.000	5249.800	---	---
11ac20MIMO	Ant2	5260	19.400	5250.200	5269.600	---	---
11ac20MIMO	Ant3	5260	20.080	5250.000	5270.080	---	---
11ac20MIMO	Ant2	5300	19.600	5290.000	5309.600	---	---
11ac20MIMO	Ant3	5300	20.520	5289.560	5310.080	---	---
11ac20MIMO	Ant2	5320	20.120	5310.000	5330.120	---	---
11ac20MIMO	Ant3	5320	19.960	5310.040	5330.000	---	---
11ac20MIMO	Ant2	5500	20.040	5490.080	5510.120	---	---
11ac20MIMO	Ant3	5500	19.720	5490.280	5510.000	---	---
11ac20MIMO	Ant2	5600	19.840	5589.920	5609.760	---	---
11ac20MIMO	Ant3	5600	19.520	5590.200	5609.720	---	---
11ac20MIMO	Ant2	5700	19.800	5690.000	5709.800	---	---
11ac20MIMO	Ant3	5700	20.400	5690.040	5710.440	---	---
11ac20MIMO	Ant2	5720	19.680	5710.000	5729.680	---	---
11ac20MIMO	Ant3	5720	20.120	5709.920	5730.040	---	---
11ac20MIMO	Ant2	5720 UNII-2C	15	5710.000	5725	---	---
11ac20MIMO	Ant3	5720 UNII-2C	15.08	5709.920	5725	---	---
11ac20MIMO	Ant2	5720 UNII-3	4.68	5725	5729.680	---	---
11ac20MIMO	Ant3	5720 UNII-3	5.04	5725	5730.040	---	---
11ac20MIMO	Ant2	5745	20.280	5735.000	5755.280	---	---
11ac20MIMO	Ant3	5745	19.840	5734.960	5754.800	---	---

11ac20MIMO	Ant2	5785	19.920	5775.040	5794.960	---	---
11ac20MIMO	Ant3	5785	19.760	5775.240	5795.000	---	---
11ac20MIMO	Ant2	5825	19.960	5815.040	5835.000	---	---
11ac20MIMO	Ant3	5825	20.360	5814.720	5835.080	---	---
11ac40MIMO	Ant2	5190	39.120	5170.240	5209.360	---	---
11ac40MIMO	Ant3	5190	39.120	5170.560	5209.680	---	---
11ac40MIMO	Ant2	5230	39.360	5210.160	5249.520	---	---
11ac40MIMO	Ant3	5230	38.560	5210.800	5249.360	---	---
11ac40MIMO	Ant2	5270	39.040	5250.400	5289.440	---	---
11ac40MIMO	Ant3	5270	39.200	5250.240	5289.440	---	---
11ac40MIMO	Ant2	5310	39.280	5290.240	5329.520	---	---
11ac40MIMO	Ant3	5310	39.040	5290.320	5329.360	---	---
11ac40MIMO	Ant2	5510	39.120	5490.560	5529.680	---	---
11ac40MIMO	Ant3	5510	39.200	5490.720	5529.920	---	---
11ac40MIMO	Ant2	5590	38.720	5570.560	5609.280	---	---
11ac40MIMO	Ant3	5590	39.600	5569.920	5609.520	---	---
11ac40MIMO	Ant2	5670	39.280	5650.240	5689.520	---	---
11ac40MIMO	Ant3	5670	39.200	5650.640	5689.840	---	---
11ac40MIMO	Ant2	5710	39.520	5689.920	5729.440	---	---
11ac40MIMO	Ant3	5710	38.880	5690.480	5729.360	---	---
11ac40MIMO	Ant2	5710 UNII-2C	35.08	5689.920	5725	---	---
11ac40MIMO	Ant3	5710 UNII-2C	34.52	5690.480	5725	---	---
11ac40MIMO	Ant2	5710 UNII-3	4.44	5725	5729.440	---	---
11ac40MIMO	Ant3	5710 UNII-3	4.36	5725	5729.360	---	---
11ac40MIMO	Ant2	5755	39.600	5735.320	5774.920	---	---
11ac40MIMO	Ant3	5755	38.960	5735.320	5774.280	---	---
11ac40MIMO	Ant2	5795	39.040	5775.400	5814.440	---	---
11ac40MIMO	Ant3	5795	39.200	5775.400	5814.600	---	---
11ac80MIMO	Ant2	5210	79.680	5170.160	5249.840	---	---
11ac80MIMO	Ant3	5210	81.120	5169.200	5250.320	---	---
11ac80MIMO	Ant2	5290	79.840	5250.000	5329.840	---	---
11ac80MIMO	Ant3	5290	79.200	5250.160	5329.360	---	---
11ac80MIMO	Ant2	5530	80.640	5489.840	5570.480	---	---
11ac80MIMO	Ant3	5530	79.520	5490.640	5570.160	---	---
11ac80MIMO	Ant2	5610	79.680	5570.320	5650.000	---	---
11ac80MIMO	Ant3	5610	79.840	5569.840	5649.680	---	---
11ac80MIMO	Ant2	5690	80.640	5649.520	5730.160	---	---
11ac80MIMO	Ant3	5690	79.520	5649.840	5729.360	---	---
11ac80MIMO	Ant2	5690 UNII-2C	75.48	5649.520	5725	---	---
11ac80MIMO	Ant3	5690 UNII-2C	75.16	5649.840	5725	---	---
11ac80MIMO	Ant2	5690 UNII-3	5.16	5725	5730.160	---	---
11ac80MIMO	Ant3	5690 UNII-3	4.36	5725	5729.360	---	---
11ac80MIMO	Ant2	5775	80.000	5735.160	5815.160	---	---
11ac80MIMO	Ant3	5775	80.480	5734.680	5815.160	---	---
11ac160MIMO	Ant2	5250	161.920	5168.720	5330.640	---	---
11ac160MIMO	Ant3	5250	161.920	5169.040	5330.960	---	---
11ac160MIMO	Ant2	5250 UNII-1	81.28	5168.720	5250	---	---
11ac160MIMO	Ant3	5250 UNII-1	80.96	5169.040	5250	---	---
11ac160MIMO	Ant2	5250 UNII-2A	80.64	5250	5330.640	---	---
11ac160MIMO	Ant3	5250 UNII-2A	80.96	5250	5330.960	---	---
11ac160MIMO	Ant2	5570	163.520	5488.720	5652.240	---	---
11ac160MIMO	Ant3	5570	161.280	5488.720	5650.000	---	---
11ax20MIMO	Ant2	5180	20.560	5169.720	5190.280	---	---
11ax20MIMO	Ant3	5180	20.480	5169.480	5189.960	---	---
11ax20MIMO	Ant2	5200	20.560	5189.600	5210.160	---	---
11ax20MIMO	Ant3	5200	20.320	5189.880	5210.200	---	---
11ax20MIMO	Ant2	5240	20.560	5229.880	5250.440	---	---
11ax20MIMO	Ant3	5240	20.480	5229.600	5250.080	---	---
11ax20MIMO	Ant2	5260	20.320	5249.920	5270.240	---	---
11ax20MIMO	Ant3	5260	20.480	5249.680	5270.160	---	---
11ax20MIMO	Ant2	5300	20.400	5289.800	5310.200	---	---
11ax20MIMO	Ant3	5300	20.320	5289.880	5310.200	---	---
11ax20MIMO	Ant2	5320	20.120	5310.040	5330.160	---	---
11ax20MIMO	Ant3	5320	20.320	5309.800	5330.120	---	---
11ax20MIMO	Ant2	5500	20.080	5490.080	5510.160	---	---
11ax20MIMO	Ant3	5500	20.240	5489.760	5510.000	---	---
11ax20MIMO	Ant2	5600	19.920	5590.080	5610.000	---	---

11ax20MIMO	Ant3	5600	20.080	5590.000	5610.080	---	---
11ax20MIMO	Ant2	5700	20.360	5689.880	5710.240	---	---
11ax20MIMO	Ant3	5700	20.560	5689.880	5710.440	---	---
11ax20MIMO	Ant2	5720	20.640	5709.480	5730.120	---	---
11ax20MIMO	Ant3	5720	20.440	5709.520	5729.960	---	---
11ax20MIMO	Ant2	5720 UNII-2C	15.52	5709.480	5725	---	---
11ax20MIMO	Ant3	5720 UNII-2C	15.48	5709.520	5725	---	---
11ax20MIMO	Ant2	5720 UNII-3	5.12	5725	5730.120	---	---
11ax20MIMO	Ant3	5720 UNII-3	4.96	5725	5729.960	---	---
11ax20MIMO	Ant2	5745	20.080	5734.960	5755.040	---	---
11ax20MIMO	Ant3	5745	20.120	5734.800	5754.920	---	---
11ax20MIMO	Ant2	5785	21.000	5774.760	5795.760	---	---
11ax20MIMO	Ant3	5785	21.640	5773.600	5795.240	---	---
11ax20MIMO	Ant2	5825	20.600	5814.680	5835.280	---	---
11ax20MIMO	Ant3	5825	20.120	5814.960	5835.080	---	---
11ax40MIMO	Ant2	5190	39.760	5170.080	5209.840	---	---
11ax40MIMO	Ant3	5190	39.440	5170.240	5209.680	---	---
11ax40MIMO	Ant2	5230	39.760	5209.920	5249.680	---	---
11ax40MIMO	Ant3	5230	39.840	5210.320	5250.160	---	---
11ax40MIMO	Ant2	5270	39.520	5250.240	5289.760	---	---
11ax40MIMO	Ant3	5270	40.000	5250.000	5290.000	---	---
11ax40MIMO	Ant2	5310	39.520	5290.240	5329.760	---	---
11ax40MIMO	Ant3	5310	39.200	5290.320	5329.520	---	---
11ax40MIMO	Ant2	5510	40.560	5489.440	5530.000	---	---
11ax40MIMO	Ant3	5510	39.600	5490.240	5529.840	---	---
11ax40MIMO	Ant2	5590	39.600	5570.160	5609.760	---	---
11ax40MIMO	Ant3	5590	40.240	5570.000	5610.240	---	---
11ax40MIMO	Ant2	5670	39.600	5650.400	5690.000	---	---
11ax40MIMO	Ant3	5670	40.080	5650.080	5690.160	---	---
11ax40MIMO	Ant2	5710	39.760	5689.840	5729.600	---	---
11ax40MIMO	Ant3	5710	39.440	5690.080	5729.520	---	---
11ax40MIMO	Ant2	5710 UNII-2C	35.16	5689.840	5725	---	---
11ax40MIMO	Ant3	5710 UNII-2C	34.92	5690.080	5725	---	---
11ax40MIMO	Ant2	5710 UNII-3	4.6	5725	5729.600	---	---
11ax40MIMO	Ant3	5710 UNII-3	4.52	5725	5729.520	---	---
11ax40MIMO	Ant2	5755	39.920	5734.840	5774.760	---	---
11ax40MIMO	Ant3	5755	39.680	5735.000	5774.680	---	---
11ax40MIMO	Ant2	5795	39.600	5775.080	5814.680	---	---
11ax40MIMO	Ant3	5795	40.080	5774.680	5814.760	---	---
11ax80MIMO	Ant2	5210	80.320	5169.520	5249.840	---	---
11ax80MIMO	Ant3	5210	80.800	5169.520	5250.320	---	---
11ax80MIMO	Ant2	5290	80.160	5249.840	5330.000	---	---
11ax80MIMO	Ant3	5290	80.640	5249.520	5330.160	---	---
11ax80MIMO	Ant2	5530	81.120	5489.200	5570.320	---	---
11ax80MIMO	Ant3	5530	80.000	5490.160	5570.160	---	---
11ax80MIMO	Ant2	5610	80.480	5569.680	5650.160	---	---
11ax80MIMO	Ant3	5610	80.800	5569.200	5650.000	---	---
11ax80MIMO	Ant2	5690	80.160	5650.000	5730.160	---	---
11ax80MIMO	Ant3	5690	80.320	5650.000	5730.320	---	---
11ax80MIMO	Ant2	5690 UNII-2C	75	5650.000	5725	---	---
11ax80MIMO	Ant3	5690 UNII-2C	75	5650.000	5725	---	---
11ax80MIMO	Ant2	5690 UNII-3	5.16	5725	5730.160	---	---
11ax80MIMO	Ant3	5690 UNII-3	5.32	5725	5730.320	---	---
11ax80MIMO	Ant2	5775	80.320	5735.000	5815.320	---	---
11ax80MIMO	Ant3	5775	80.480	5734.680	5815.160	---	---
11ax160MIMO	Ant2	5250	163.200	5169.040	5332.240	---	---
11ax160MIMO	Ant3	5250	161.920	5169.040	5330.960	---	---
11ax160MIMO	Ant2	5250 UNII-1	80.96	5169.040	5250	---	---
11ax160MIMO	Ant3	5250 UNII-1	80.96	5169.040	5250	---	---
11ax160MIMO	Ant2	5250 UNII-2A	82.24	5250	5332.240	---	---
11ax160MIMO	Ant3	5250 UNII-2A	80.96	5250	5330.960	---	---
11ax160MIMO	Ant2	5570	162.240	5489.040	5651.280	---	---
11ax160MIMO	Ant3	5570	162.880	5488.720	5651.600	---	---

Test Graphs







11a-CDD-Ant2-5500



11a-CDD-Ant3-5500



11a-CDD-Ant2-5600



11a-CDD-Ant3-5600



11a-CDD-Ant2-5700



11a-CDD-Ant3-5700



11a-CDD-Ant2-5720



11a-CDD-Ant3-5720



11a-CDD-Ant2-5745



11a-CDD-Ant3-5745

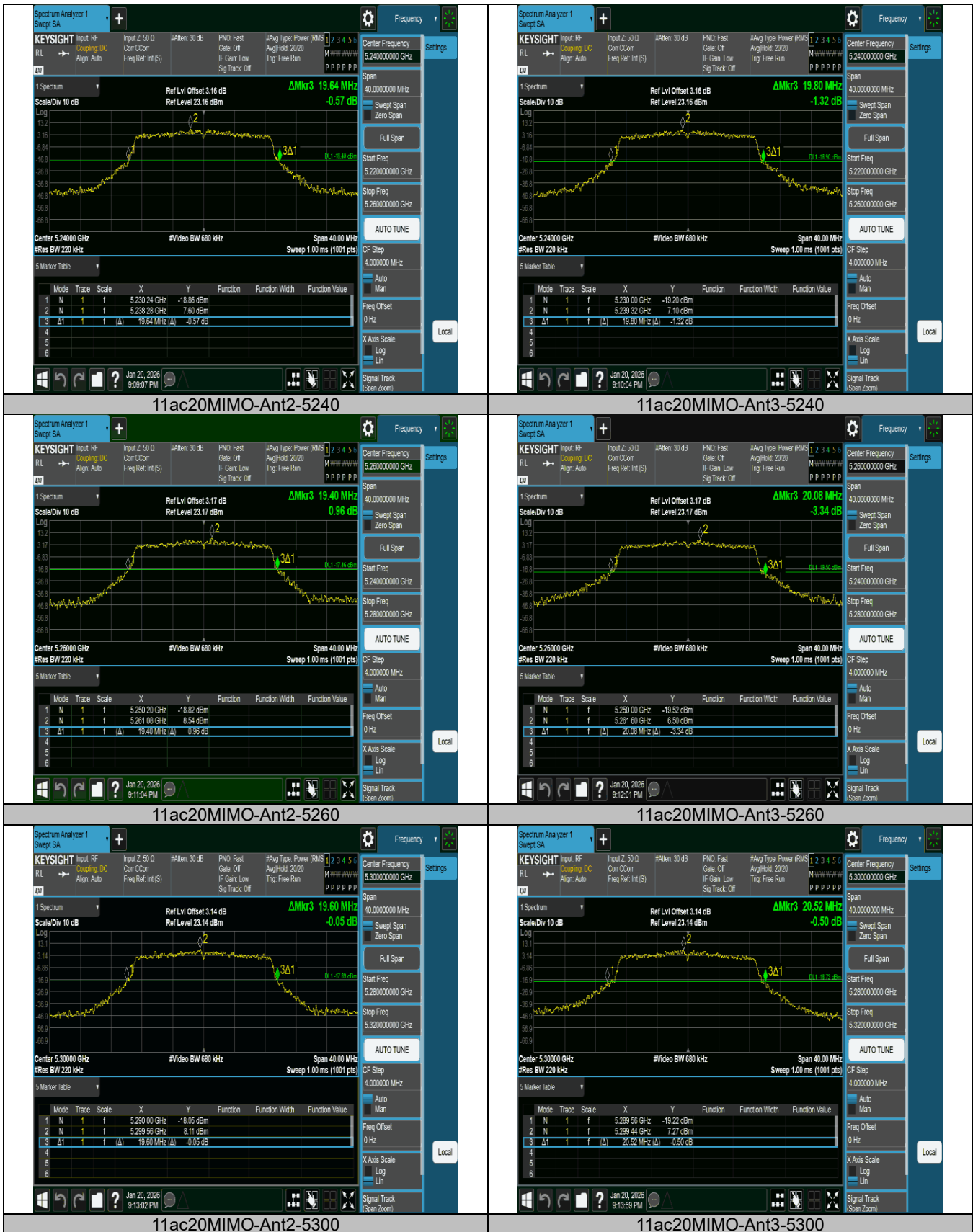


11a-CDD-Ant2-5785

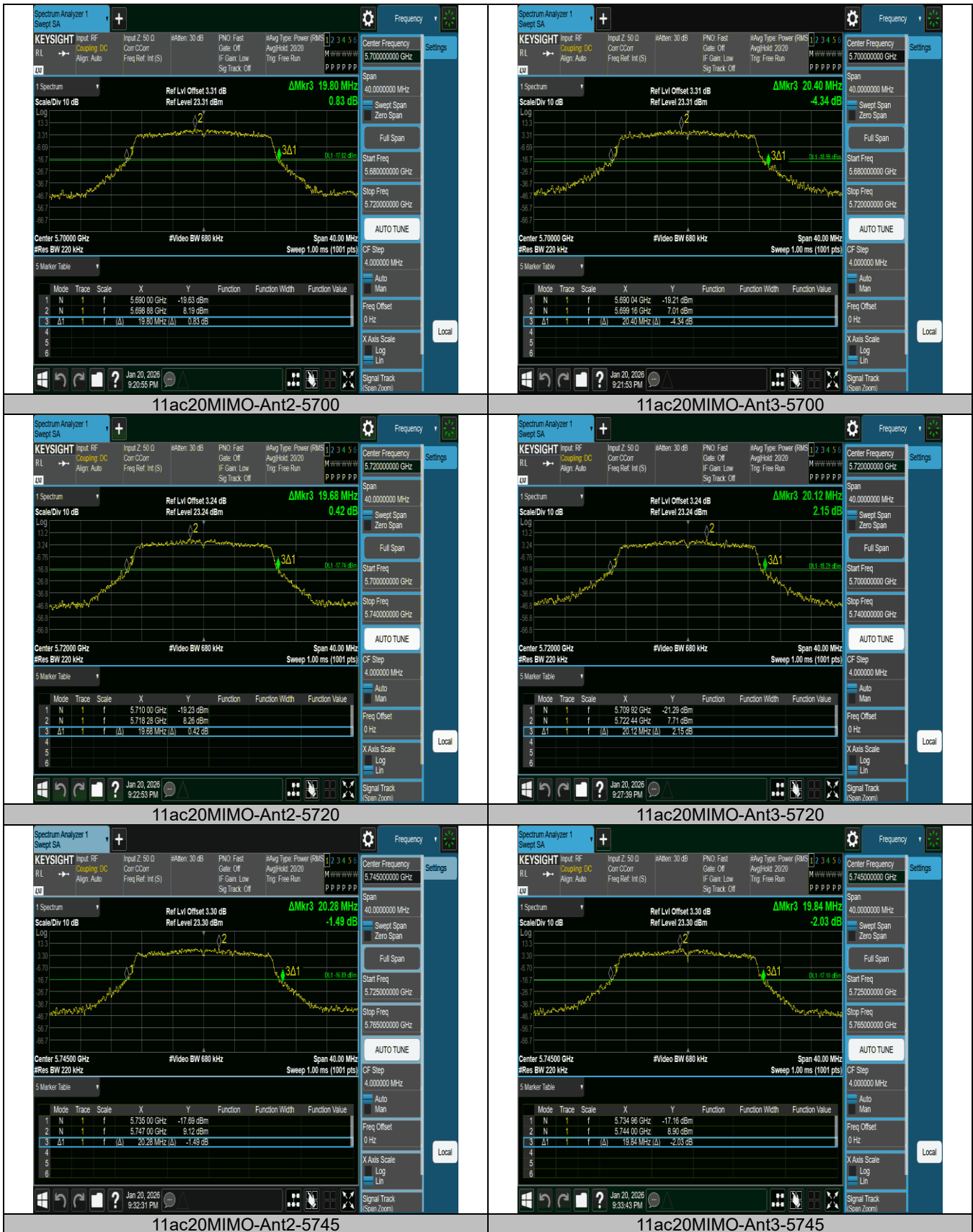


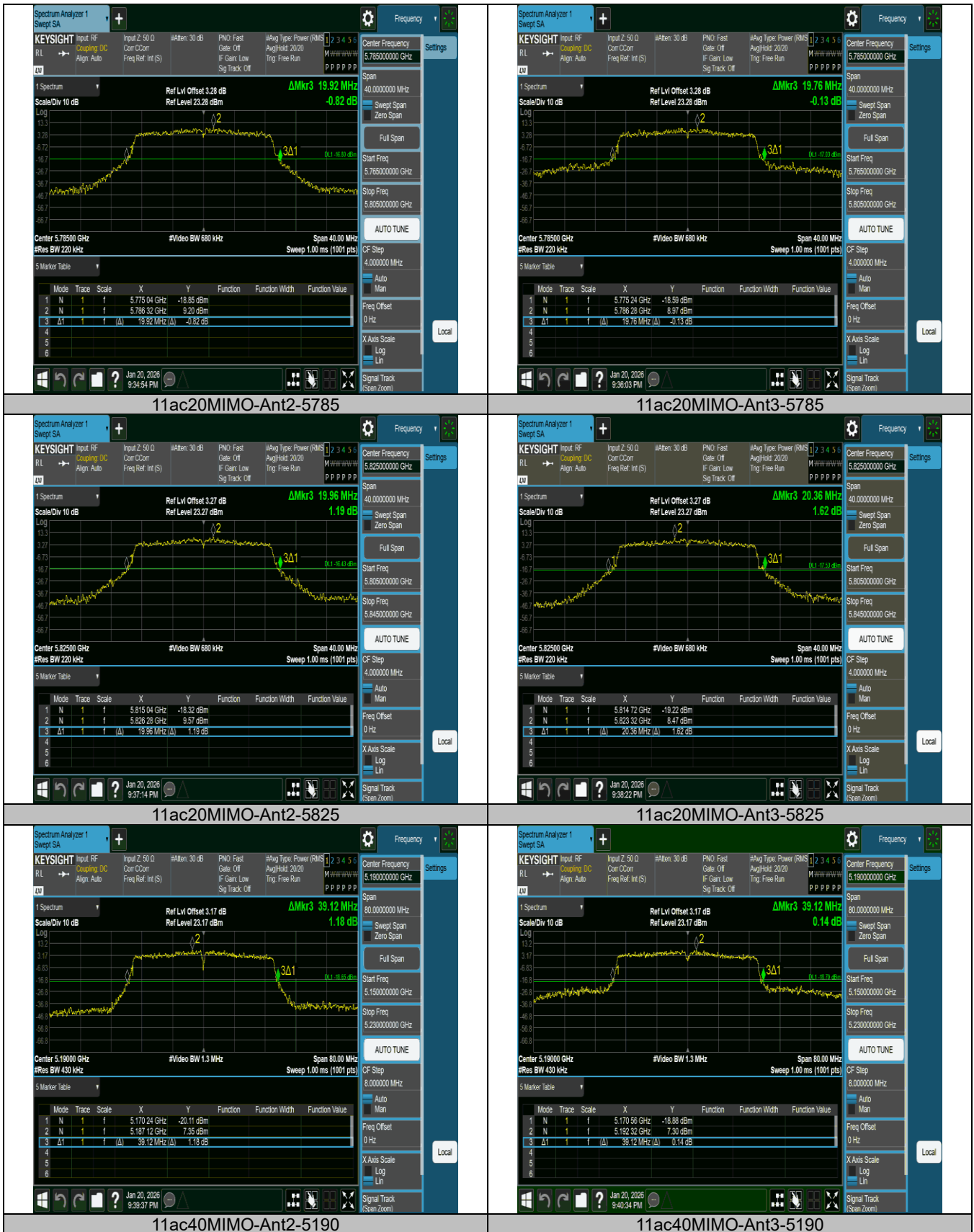
11a-CDD-Ant3-5785

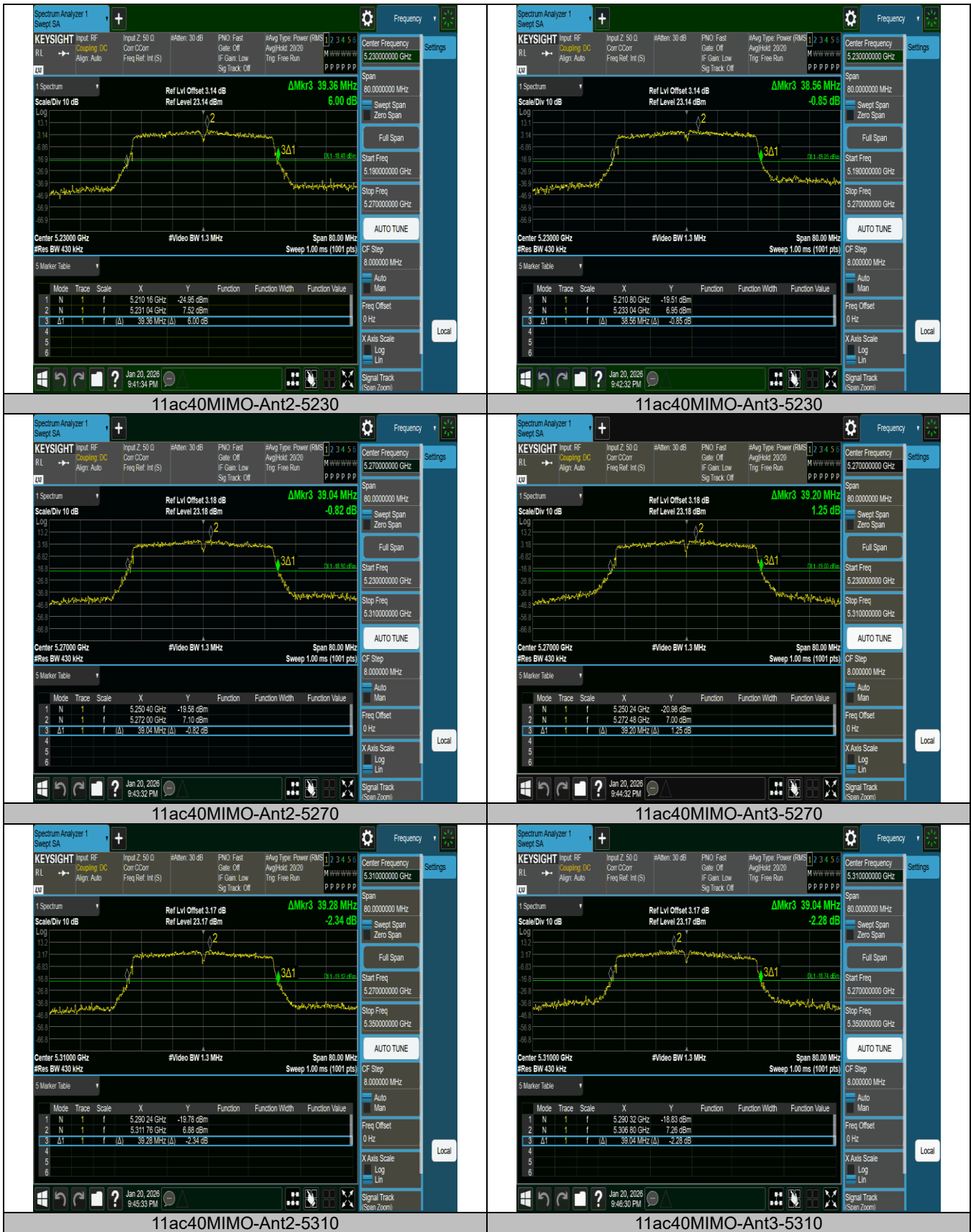














11ac40MIMO-Ant2-5510



11ac40MIMO-Ant3-5510



11ac40MIMO-Ant2-5590



11ac40MIMO-Ant3-5590

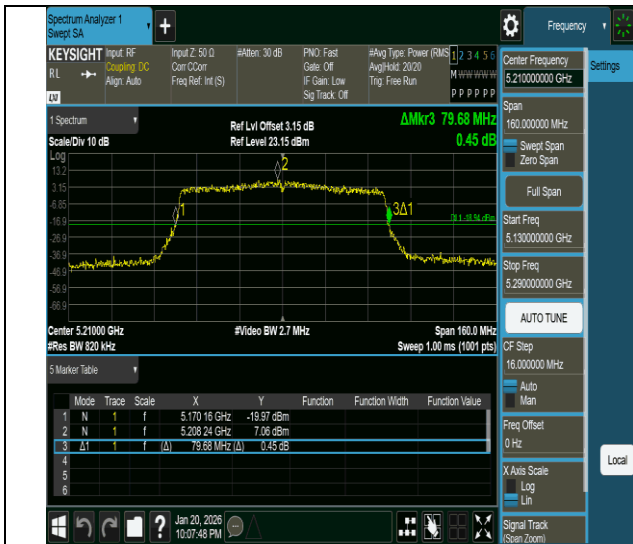


11ac40MIMO-Ant2-5670



11ac40MIMO-Ant3-5670





11ac80MIMO-Ant2-5210



11ac80MIMO-Ant3-5210



11ac80MIMO-Ant2-5290



11ac80MIMO-Ant3-5290



11ac80MIMO-Ant2-5530



11ac80MIMO-Ant3-5530



