



FCC RADIO TEST REPORT

FCC ID : 2ABZ2-OPD2415
Equipment : tablet
Brand Name : ONEPLUS
Model Name : OPD2415
Marketing Name : OnePlus Pad 3
Applicant : OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China
Manufacturer : OnePlus Technology (Shenzhen) Co., Ltd.
18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China
Standard : FCC Part 15 Subpart E §15.407

The product was received on Feb. 11, 2025 and testing was performed from Mar. 20, 2025 to Mar. 22, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR520722	01	Initial issue of report	Mar. 27, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2.1	15.407 KDB 987594 D02 Section II. L.	Standard Client Proper Power Adjustment Measurement	Pass	-
2.2	15.407 KDB 987594 D02 Section II. K.	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturee who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11a/ax/be and WPT.	
Antenna Type WLAN: <Ant. 1>: Cavity Antenna <Ant. 2>: Cavity Antenna	

Antenna information		
5945 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 1: 0.8 Ant. 2: 1.3
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 1: 1.1 Ant. 2: 1.4

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. DF02-HY
Test Engineer	Ray Wang
Temperature (°C)	20.5~22.7
Relative Humidity (%)	50.3~54.1

FCC designation No.: TW1190



1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Result

2.1 Standard Client Proper Power Adjustment Measurement

2.1.1 Limit of Standard Client Proper Power Adjustment

15.407 KDB 987594 D02 Section II. L. Power limits for standard client devices

c) The maximum power limits shall remain at least 6 dB below the power levels authorized for the associated standard-power access point

2.1.2 Test Procedures of Standard Client Proper Power Adjustment

The testing follows FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01.

Section L. Proper Power Adjustment

2.1.3 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test procedure to show that the client device can lower its power accordingly.

2.1.4 Test Procedure:

1. Connect equipment as shown in Figure 7 below.
2. Adjust Atten 1 to Std Power AP so as to facilitate error free communication with the Client but protect the Client receiver from overload or damage.
3. Configure the Client and AP so that they associate and start sending data (stream data). The AP should be configured such that its registered power is 36 dBm EIRP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
5. Use this power, along with its antenna gain, to calculate the Client EIRP.
6. The Client EIRP should be minimally 6 dB lower than that of the AP.
7. Repeat Steps 2 through 5 at two other selected measurement points – the first at the midpoint and the second at the lowest rated power of the client as declared by the manufacturer.

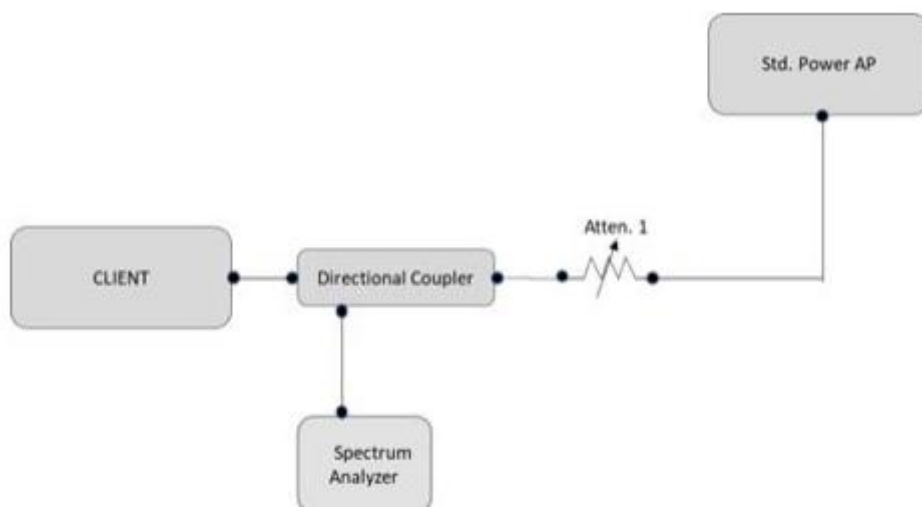


Figure 7. Test setup for conducted testing

2.1.5 Test Result Summary

Companion Standard Power AP: Brand name: Qualcomm, Model name: Wakiki

802.11be 20MHz bandwidth

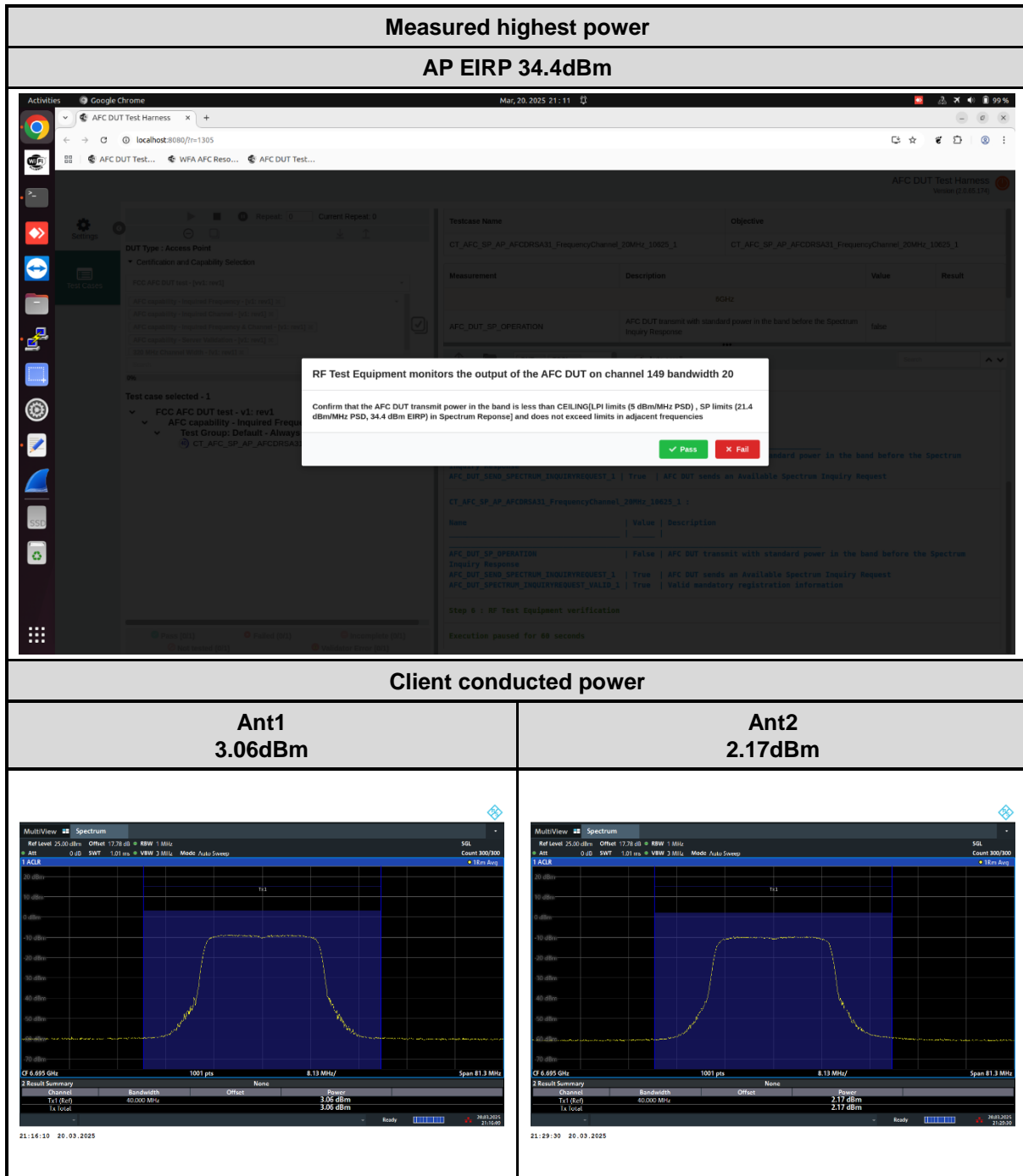
Test channel 149

	Client Conducted Power (dBm)			Client EIRP (dBm)	AP EIRP (dBm)	AP to client EIRP Delta (dB)
	Ant1	Ant2	MIMO			
Maximum EIRP	3.06	2.17	5.65	7.05	34.4	27.35
Midpoint EIRP	-9.12	-10.88	-6.90	-5.50	26.6	32.10
Lowest EIRP	-18.66	-21.08	-16.69	-15.29	21.1	36.39
Requirement						At least 6 dB
Result						Pass

Note: Client EIRP = Client MIMO conducted power + antenna gain (1.40dBi)



2.1.6 Test Result Plot





Measured mid-point power

AP EIRP 26.6dBm

Activities Google Chrome Mar, 20, 2025 22:46

AFC DUT Test Harness localhost:8080/?m=1305

AFC DUT Test... WFA AFC Reso... AFC DUT Test...

AFC DUT Test Harness www.sportonlab.com

Testcase Name: CT_AFC_SP_AP_AFCORSA31_FrequencyChannel_20MHz_10025_1 Objective: CT_AFC_SP_AP_AFCORSA31_FrequencyChannel_20MHz_10025_1

Measurement	Description	Value	Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	False	Fail

RF Test Equipment monitors the output of the AFC DUT on channel 149 bandwidth 20

Confirm that the AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/MHz PSD), SP limits (13.6 dBm/MHz PSD, 26.6 dBm EIRP) in Spectrum Response) and does not exceed limits in adjacent frequencies

Pass Fail

AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1 True AFC DUT sends an Available Spectrum Inquiry Request

CT_AFC_SP_AP_AFCORSA31_FrequencyChannel_20MHz_10025_1

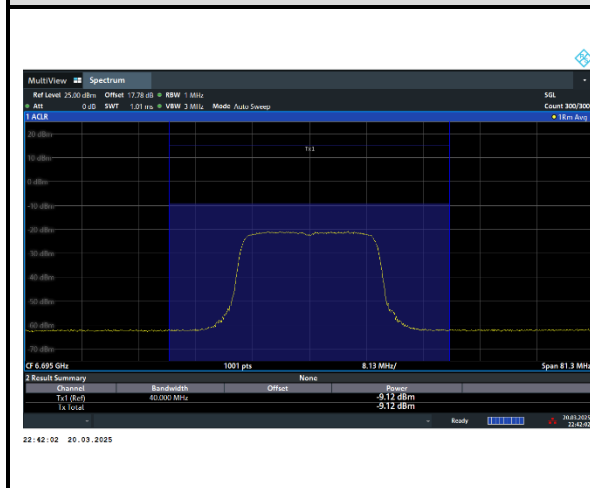
Name	Value	Description
AFC_DUT_SP_OPERATION	False	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_1	True	AFC DUT sends an Available Spectrum Inquiry Request
AFC_DUT_SEND_SPECTRUM_INQUIRYREQUEST_VALID_1	True	Valid mandatory registration information

Step 6 : RF Test Equipment verification

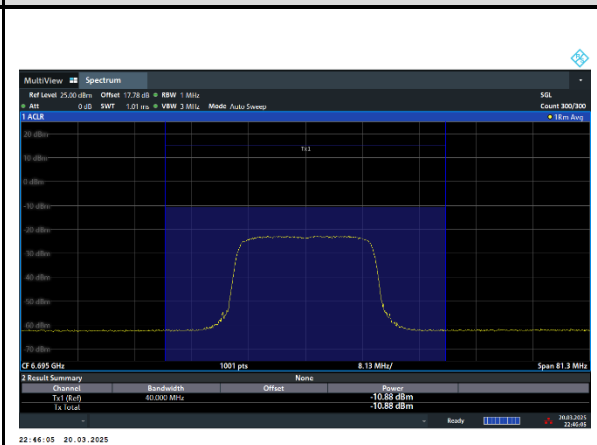
Execution passed for 68 seconds

Client conducted power

Ant1
-9.12dBm



Ant2
-10.88dBm





Measured lowest power

AP EIRP 21.1dBm

Activities Google Chrome Mar, 21, 2025 23:54

localhost:8080/?m=3450

AFC DUT Test Harness

Testcase Name: CT_AFC_SP_AP_AFCORSA31_FrequencyChannel_20MHz_10025_1

Objective: CT_AFC_SP_AP_AFCORSA31_FrequencyChannel_20MHz_10025_1

Measurement	Description	Value	Result
AFC_DUT_SP_OPERATION	AFC DUT transmit with standard power in the band before the Spectrum Inquiry Response	False	Fail

RF Test Equipment monitors the output of the AFC DUT on channel 149 bandwidth 20

Confirm that the AFC DUT transmit power in the band is less than CEILING(LPI limits (5 dBm/MHz PSD), SP limits (8.1 dBm/MHz PSD, 21.1 dBm EIRP) in Spectrum Response) and does not exceed limits in adjacent frequencies

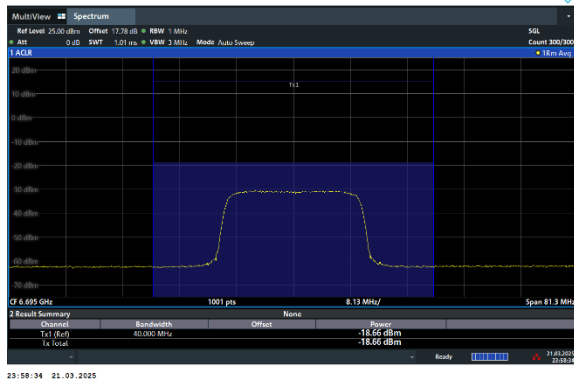
Pass Fail

Step 6 : RF Test Equipment verification

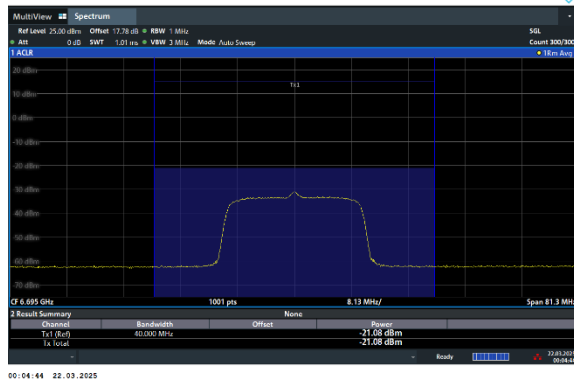
Execution passed for 68 seconds

Client conducted power

Ant1
-18.66dBm



Ant2
-21.08dBm





2.2 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

2.2.1 Limit of Proper Power Adjustment

15.407 KDB 987594 D02 Section II. K. Power limits for standard client devices

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP.

2.2.2 Test Procedures of Standard Client Proper Power Adjustment

The testing follows FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01.

Section K. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

2.2.3 Test Procedure:

1. Connect equipment as shown in Figure 6 below..
2. Adjust Atten 2 to Std Power AP so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP)
3. Configure the Client and APs so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
5. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indoor AP.
6. Verify transmission between Client and Low Power AP.
7. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP

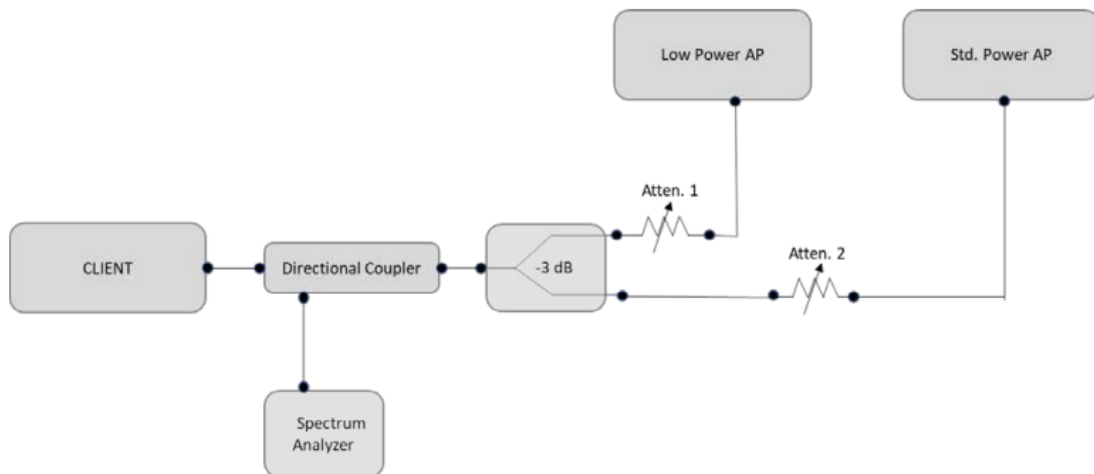


Figure 6. Test setup for conducted testing

2.2.4 Test Result Summary

Companion Standard Power AP: Brand name: Qualcomm, Model name: Wakiki

Companion Low Power indoor AP: Brand name: ASUS, Model name: RT-BE92U

802.11be 20MHz bandwidth

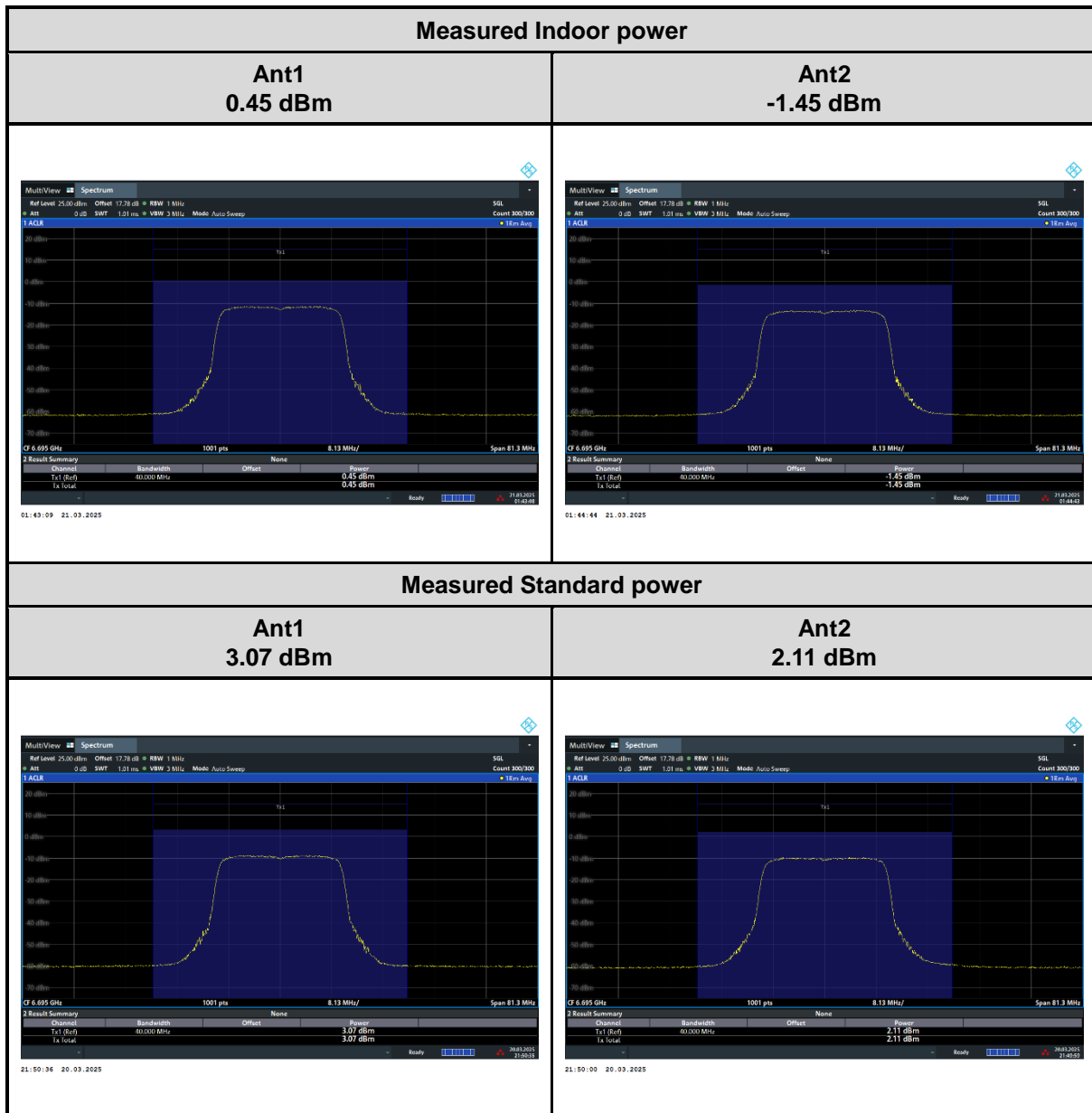
Test channel 149

	Client Conducted Power (dBm)			Client EIRP (dBm)	Limit EIRP (dBm)	Result
	Ant1	Ant2	MIMO			
Indoor EIRP	0.45	-1.45	2.61	4.01	24	Pass
Standard EIRP	3.07	2.11	5.63	7.03	30	Pass

Note: Client EIRP = Client MIMO conducted power + antenna gain (1.40dBi)



2.2.5 Test Result Plot





3 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101549	10Hz~13.6GHz	Jan. 20, 2025	Mar. 20, 2025~ Mar. 22, 2025	Jan. 19, 2026	AFC (DF02-HY)
Coupler	MVE	MVE4816	A800044	0.5-18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10003	0.5GHz-6GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10007	0.5GHz-6GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
Power Divider	MTJ	SMA 2Way Power Divider	MD10011	0.5GHz-6GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EM	SFL402	30cm-#6	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	MTJ	SBF405	30cm-01	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	MTJ	SBF405	30cm-09	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	100cm-01	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	100cm-03	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	100cm-05	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	100cm-10	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	100cm-11	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	150cm-#11	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SS405	150cm-#15	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)
RF Cable	EC	SFL405	150cm-01	30 kHz~18GHz	Calibration from System	Mar. 20, 2025~ Mar. 22, 2025	Calibration from System	AFC (DF02-HY)