



RADIO TEST REPORT

Applicant	:	Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.
Address of Applicant	:	NO.8 Shenshan East Road Baiyun District, Guangzhou City, 510460, Guangdong, P.R. China
Manufacturer	:	Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou City, 510460, Guangdong, P.R. China
Equipment under Test	:	Meter
FCC Model No.	:	6WX0-20, 6WW9-B6
FCC ID	:	2BTEP-6WX020
IC	:	34894-6WX020
HVIN	:	6WX0-20
FVIN	:	6WX0-20, 6WW9-B6
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024, 789033 D02 General U-NII Test Procedures New Rules v02r01 RSS-247 Issue 4 July 24, 2025, RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021), ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
Report No.	:	DDT-RE25072134-1E04
Issue Date	:	2026/09/23
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

Table of Contents

1.	Summary of Test Results	6
2.	General Test Information.....	7
2.1.	Description of EUT	7
2.2.	Accessories of EUT	7
2.3.	Block diagram of EUT configuration for test.....	8
2.4.	Decision of final test mode	8
2.5.	Deviations of test standard	8
2.6.	Test environment conditions	9
2.7.	Test laboratory	9
2.8.	Measurement uncertainty	10
3.	Equipment Used During Conductive Test	11
4.	6dB Bandwidth	12
4.1.	Block diagram of test setup	12
4.2.	Limits	12
4.3.	Test procedure	12
4.4.	Test result.....	13
4.5.	Test graphs	14
5.	99% Bandwidth	19
5.1.	Block diagram of test setup	19
5.2.	Limits	19
5.3.	Test procedure	19
5.4.	Test result.....	20
5.5.	Test graphs	21
6.	Maximum Output Power	26
6.1.	Block diagram of test setup	26
6.2.	Limits	26
6.3.	Test procedure	26
6.4.	Test result channel power	27
7.	Power Spectral Density	28
7.1.	Block diagram of test setup	28
7.2.	Limits	28
7.3.	Test procedure	29
7.4.	Test result.....	30
7.5.	Test graphs	31
8.	Frequency Stability Measurement.....	36
8.1.	Limit of Frequency Stability	36

8.2.	Measuring Instruments.....	36
8.3.	Test procedures	36
8.4.	Test setup.....	36
8.5.	Test result.....	37
9.	Antenna Requirements.....	39
9.1.	Limit.....	39
9.2.	Result	39
10.	Radiated Emission	40
10.1.	Test equipment.....	40
10.2.	Block diagram of test setup	41
10.3.	Limits	42
10.4.	Assistant equipment used for test	44
10.5.	Test procedure	44
10.6.	Test result.....	46
10.7.	Test data	47
11.	Band Edge Compliance.....	55
11.1.	Test equipment.....	55
11.2.	Block diagram of test setup	56
11.3.	Limits	56
11.4.	Assistant equipment used for test	56
11.5.	Test procedure	56
11.6.	Test result.....	57
11.7.	Test data	57
12.	Power Line Conducted Emissions.....	85
12.1.	Test equipment.....	85
12.2.	Block diagram of test setup	85
12.3.	Limits	85
12.4.	Assistant equipment used for test	85
12.5.	Test procedure	86
12.6.	Test result.....	86
13.	Test Setup Photograph	87
14.	Photos of the EUT	89

Test Report Declare

Applicant	:	Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.
Address of Applicant	:	NO.8 Shenshan East Road Baiyun District, Guangzhou City, 510460, Guangdong, P.R. China
Equipment under Test	:	Meter
FCC Model No.	:	6WX0-20, 6WW9-B6
HVIN	:	6WX0-20
FVIN	:	6WX0-20, 6WW9-B6
Manufacturer	:	Guangzhou Chuang Rui Automobile Electric Appliance Co., Ltd.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou City, 510460, Guangdong, P.R. China

Test Standard Used:

47 CFR Part 15 Subpart E,

ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024,

789033 D02 General U-NII Test Procedures New Rules v02r01

RSS-247 Issue 4 July 24, 2025,

RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021),

ANSI C63 10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

We Declare:

The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25072134-1E04		
Date of Receipt:	2025/07/30	Date of Test:	2025/08/13 - 2025/11/16

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Ella Gong
		
2025/11/16	2026/09/23	2026/09/23

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/09/23	Ella Gong

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	47 CFR Part 15 15.407 (e), RSS-247 Clause 7.3.4.2, RSS-Gen Clause 6.7	/	Pass
2	Output Power	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
4	Frequency Stability Measurement	47 CFR Part 15 15.407 (g), RSS-Gen Clause 8.11	/	Pass
5	Radiated Emission	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.9	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.10	/	Pass
7	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h), RSS-247 Clause 7.3.6	/	N/A
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	N/A
9	Antenna Requirement	47 CFR Part 15.203, RSS-Gen clause 6.8	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	: Meter
FCC Model Number	: 6WX0-20, 6WW9-B6
FVIN	: 6WX0-20, 6WW9-B6
HVIN	: 6WX0-20
Difference of model number	: The difference is UI software function. So, choose 6WX0-20 to test.
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V
Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: U-NII-3: 5745 MHz to 5825 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) : IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) : IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type	: FPC antenna
Max Antenna Gain (dBi)	: 4.92

Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-3					
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: Built-in engineering mode software

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

The pathloss of external cable: 2 dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency				
Tested mode	Tx Power Setting	Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	ANT1			
IEEE 802.11a	20	6	LCH: CH149	5745
		6	MCH: CH157	5785
		6	HCH: CH165	5825
IEEE 802.11n HT20	20	MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	20	MCS 0	LCH: CH151	5755
		MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	20	MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	20	MCS 0	LCH: CH159	5755
		MCS 0	HCH: CH36	5795
IEEE 802.11ac VHT80	20	MCS 0	CH155	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

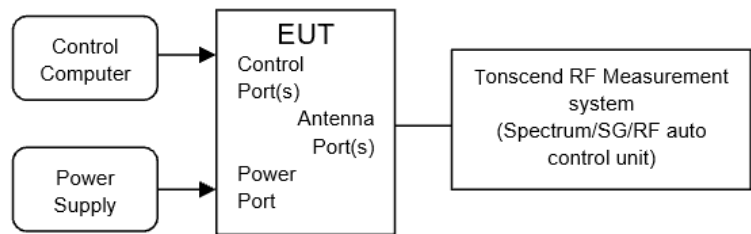
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V)
	4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz)
	4.40 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz)
	3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date	Cal. Interval
☑RF Connected Test (RF Measurement System 4#)					
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28	1 Year
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28	1 Year
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10	1 Year
RF Control Unit	Tonscend	JS0806-2	21I8060485	2026/03/28	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28	1 Year
Test Software	Tonscend	JS1120-3	Ver.3.2.22	N/A	/

4. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

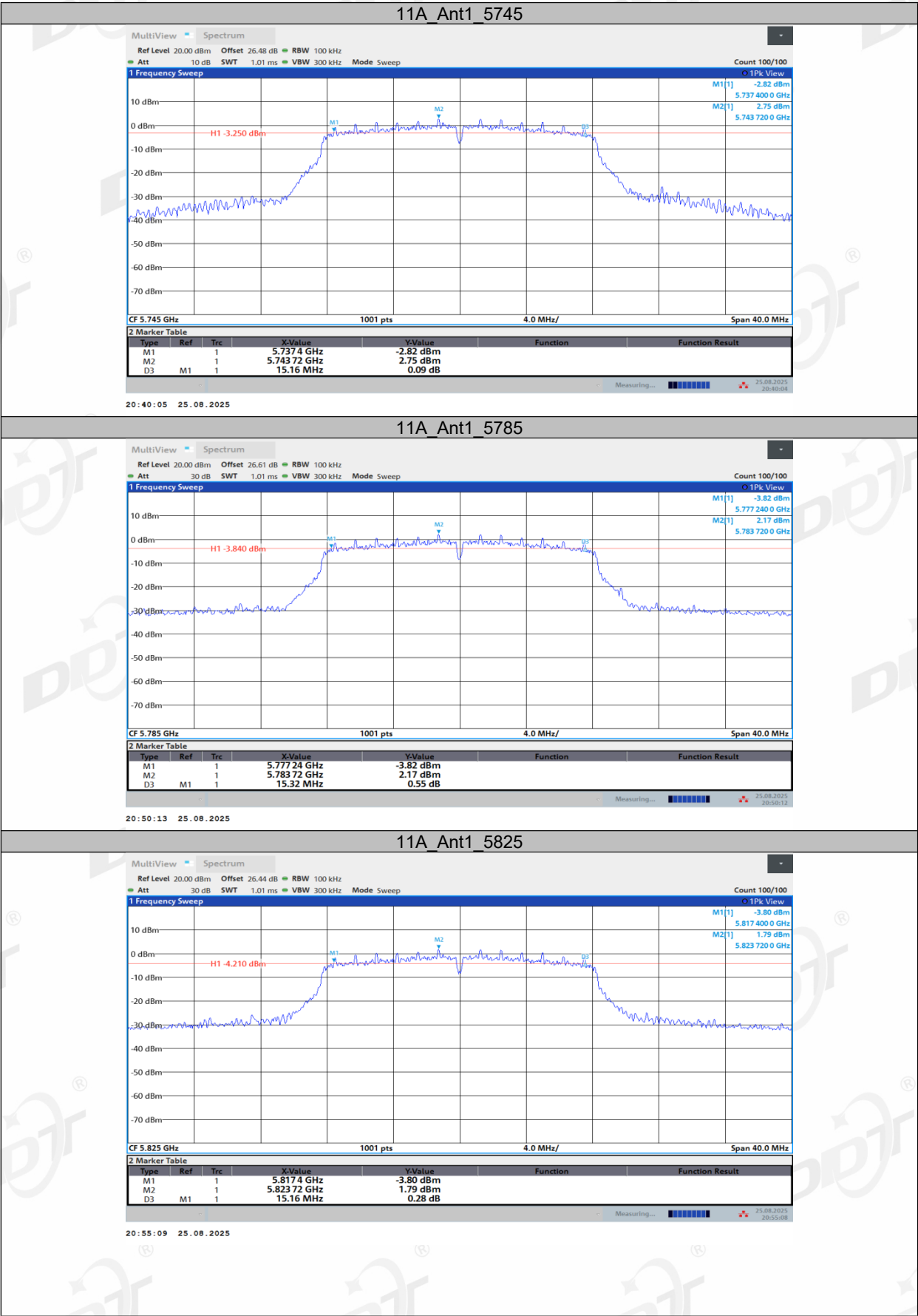
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

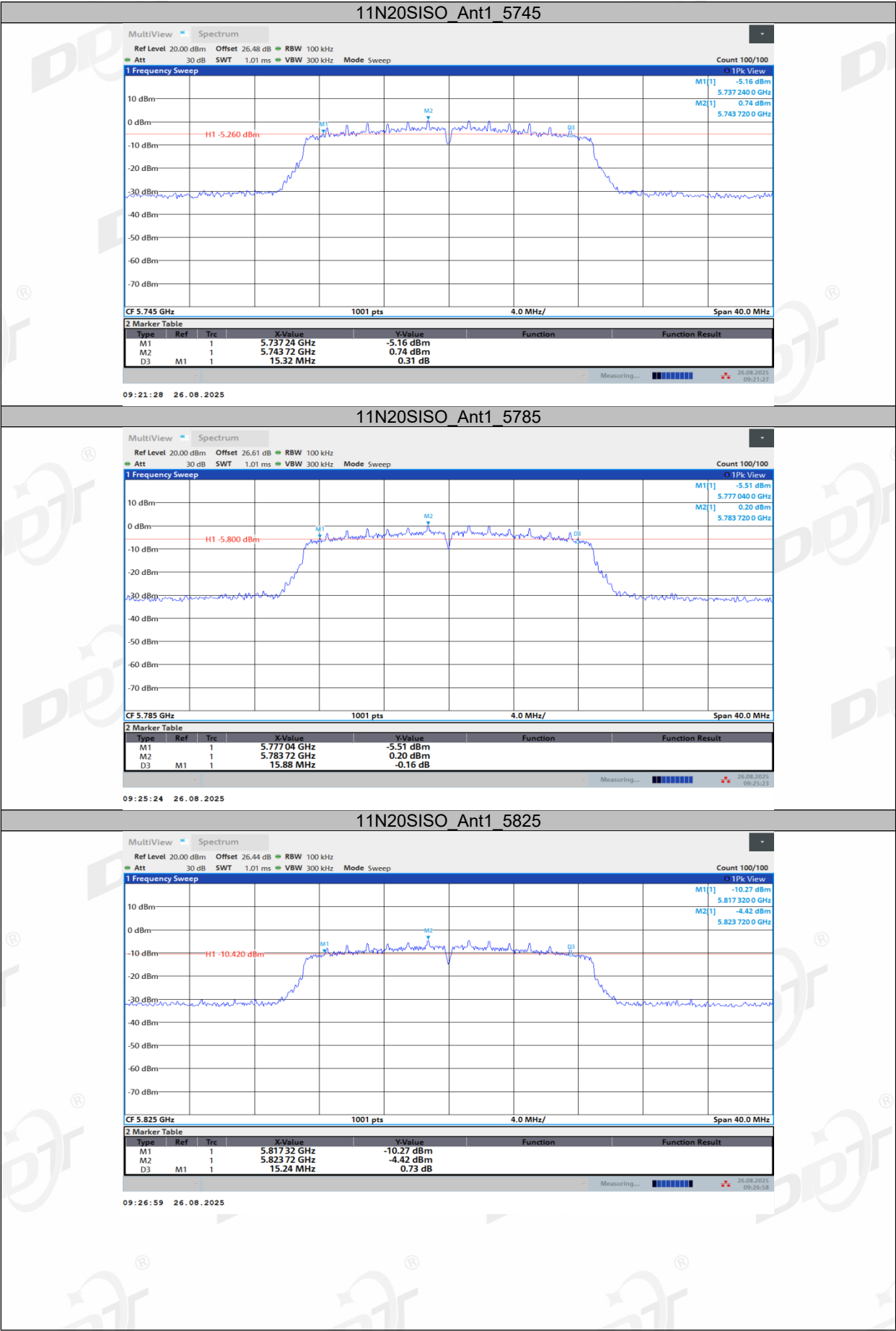
4.4. Test result

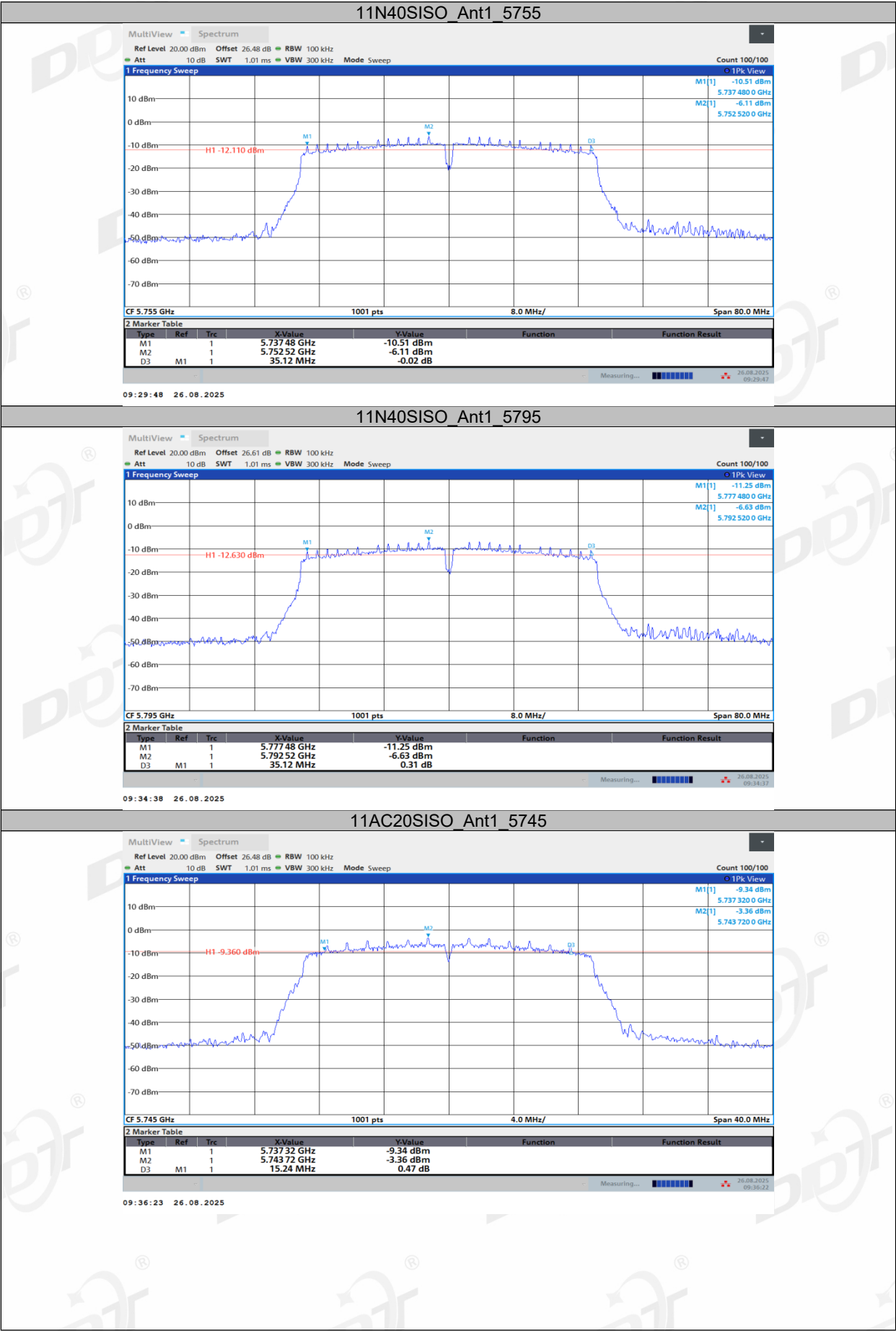
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	23.2-28.4℃,42.3-47.9%RH	Test Date:	2025.08.13-2025.09.04
Test Power Supply:	DC 12V	Sample Number:	S25072134-005

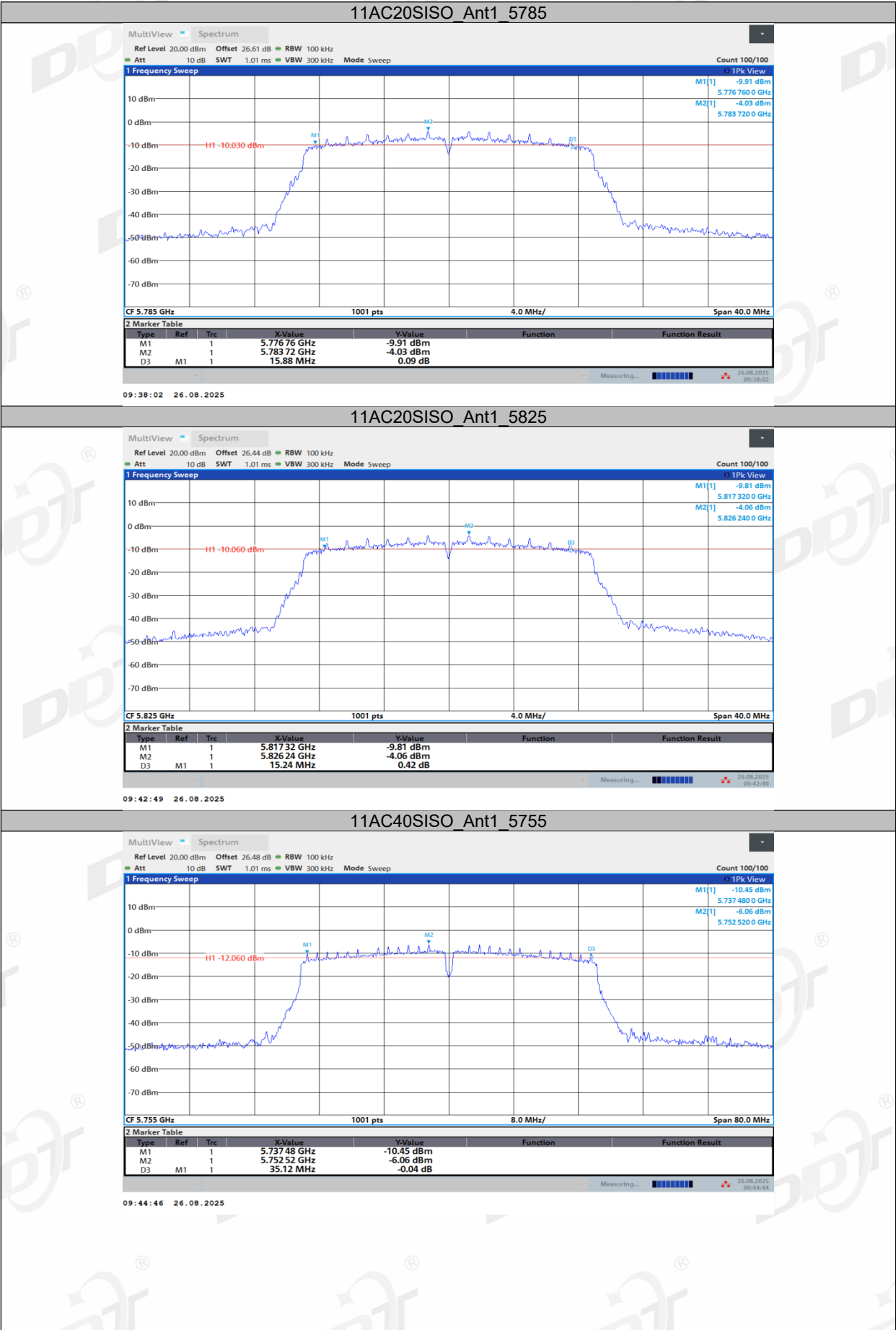
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	15.16	0.5	PASS
		5785	15.32	0.5	PASS
		5825	15.16	0.5	PASS
11N20SISO	Ant1	5745	15.32	0.5	PASS
		5785	15.88	0.5	PASS
		5825	15.24	0.5	PASS
11N40SISO	Ant1	5755	35.12	0.5	PASS
		5795	35.12	0.5	PASS
11AC20SISO	Ant1	5745	15.24	0.5	PASS
		5785	15.88	0.5	PASS
		5825	15.24	0.5	PASS
11AC40SISO	Ant1	5755	35.12	0.5	PASS
		5795	35.12	0.5	PASS
11AC80SISO	Ant1	5775	75.20	0.5	PASS

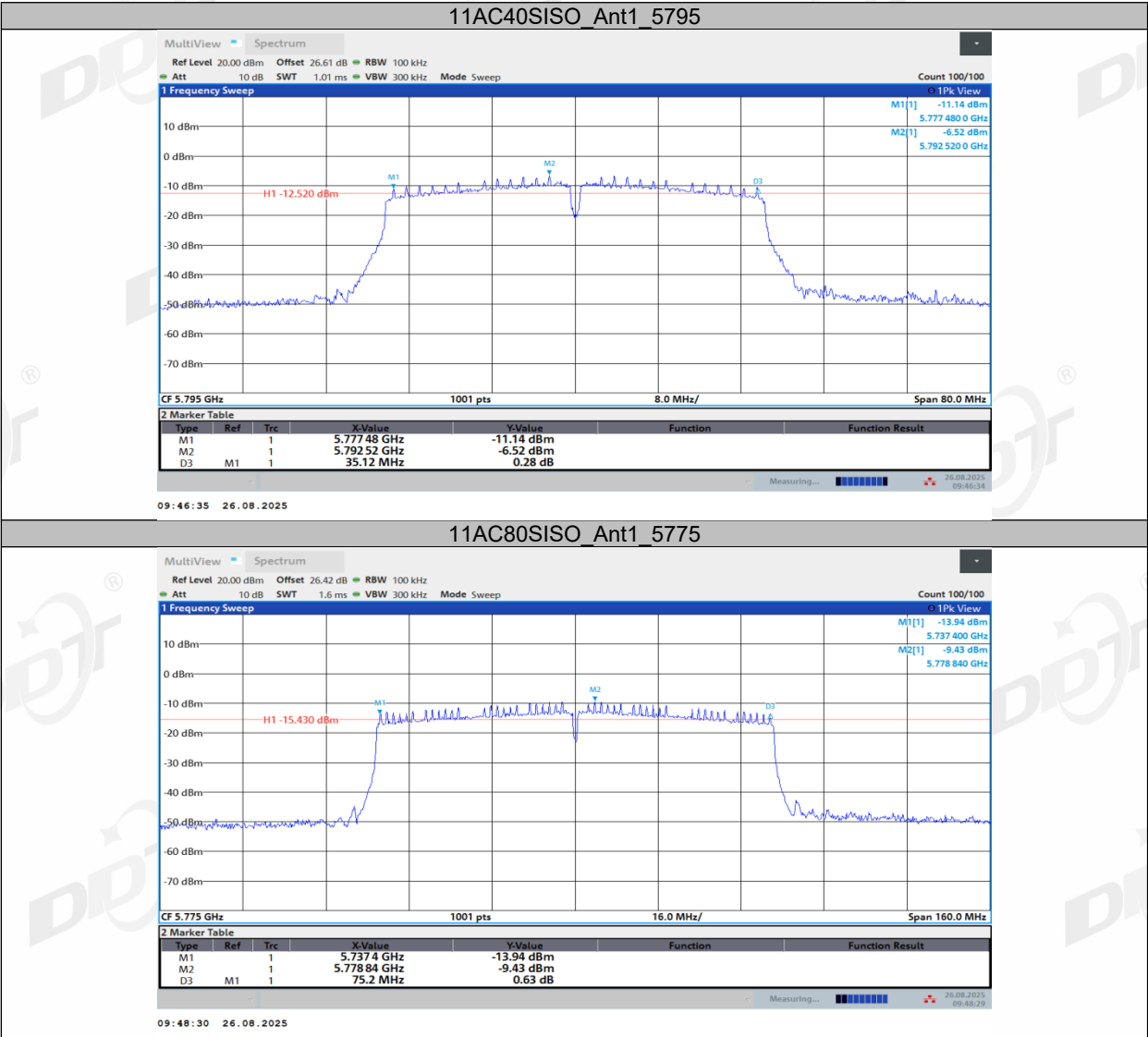
4.5. Test graphs











11AC80SISO_Ant1_5775

MultiView Spectrum

Ref Level 20.00 dBm Offset 26.42 dB RBW 100 kHz
Att 10 dB SWT 1.6 ms VBW 300 kHz Mode Sweep

Count 100/100

1 Frequency Sweep

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

H1 -15.430 dBm

M1

M2

D3

M1[1] -13.94 dBm
5.737 400 GHz

M2[1] -9.43 dBm
5.778 840 GHz

CF 5.775 GHz 1001 pts 16.0 MHz/ Span 160.0 MHz

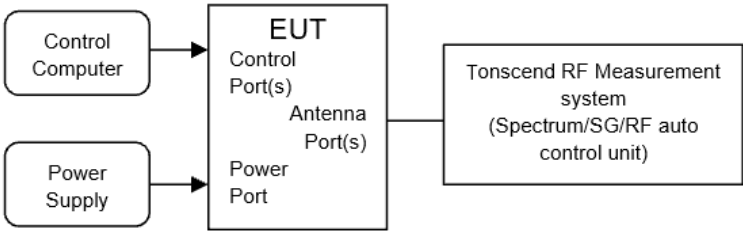
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	5.737 4 GHz	-13.94 dBm		
M2		1	5.778 84 GHz	-9.43 dBm		
D3	M1	1	75.2 MHz	0.63 dB		

09:48:30 26.08.2025

5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

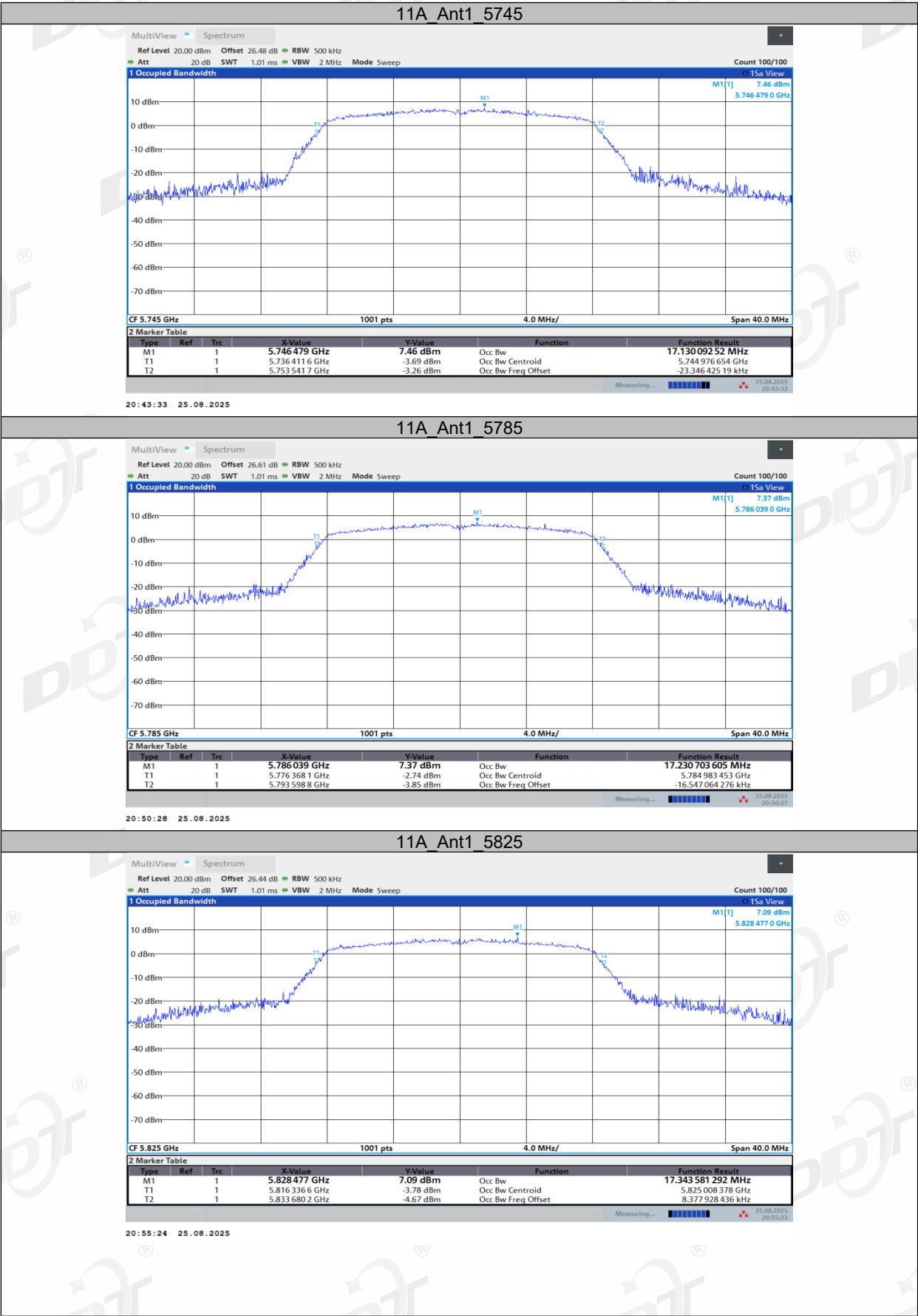
Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

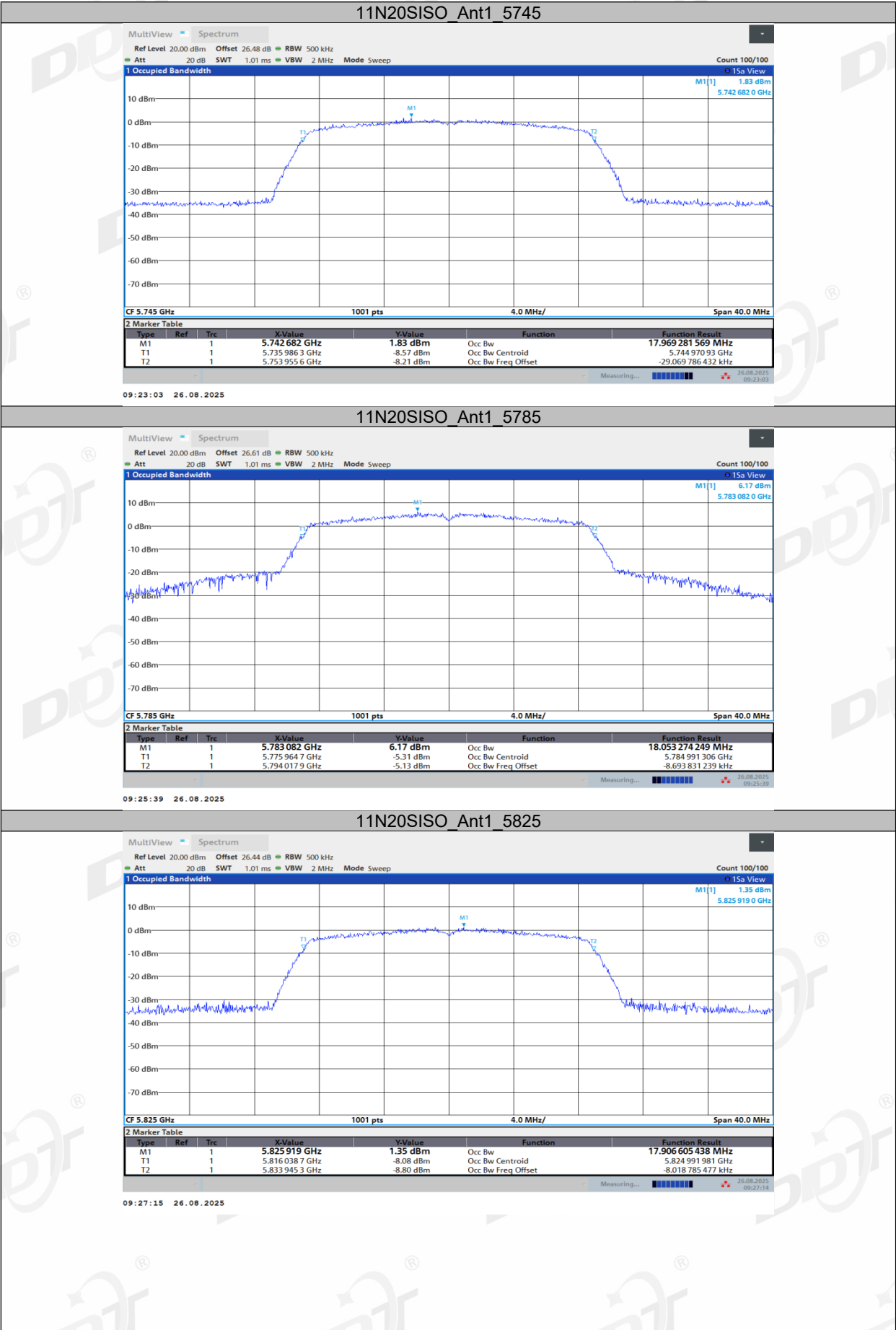
5.4. Test result

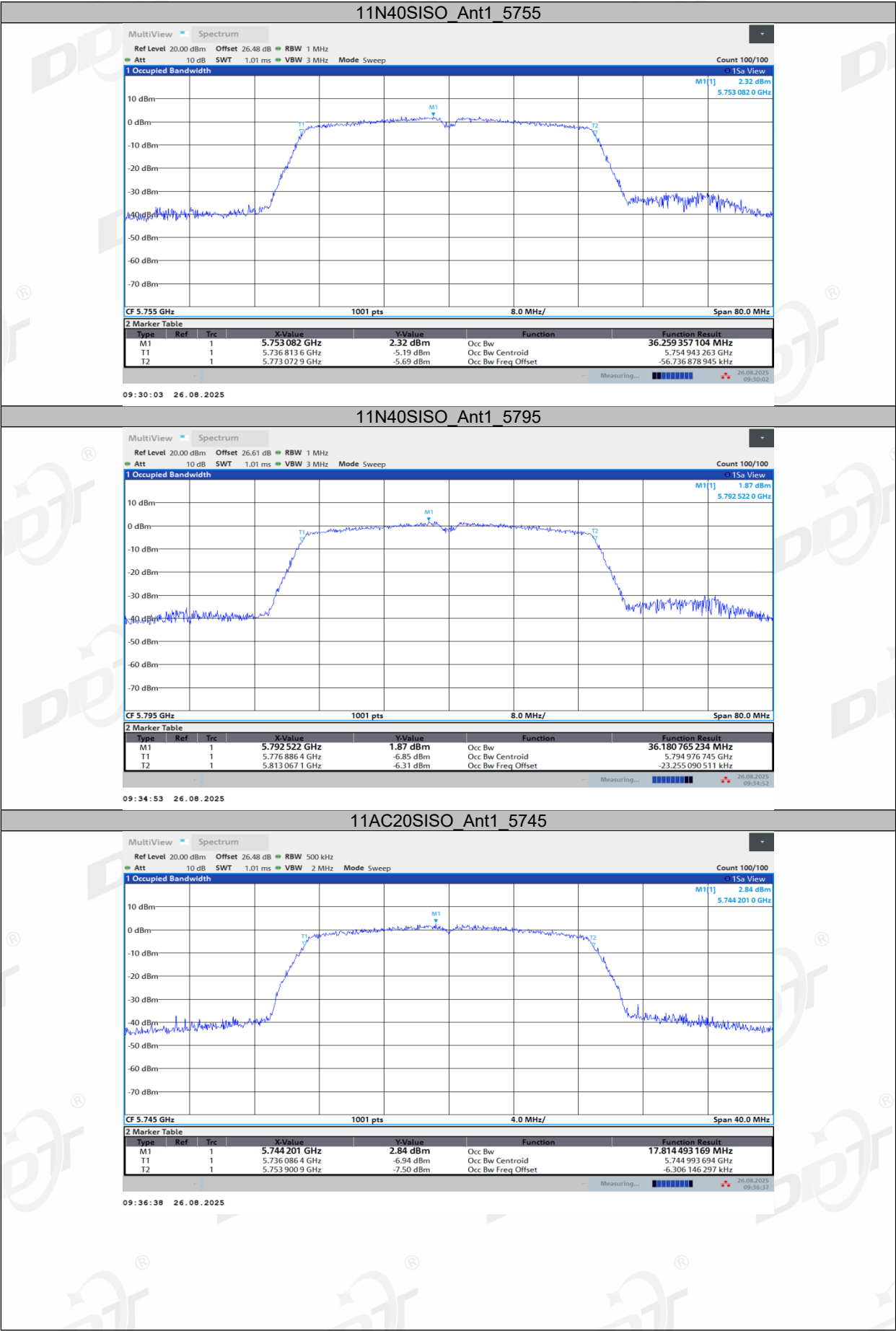
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	23.2-28.4℃,42.3-47.9%RH	Test Date:	2025.08.13-2025.09.04
Test Power Supply:	DC 12V	Sample Number:	S25072134-005

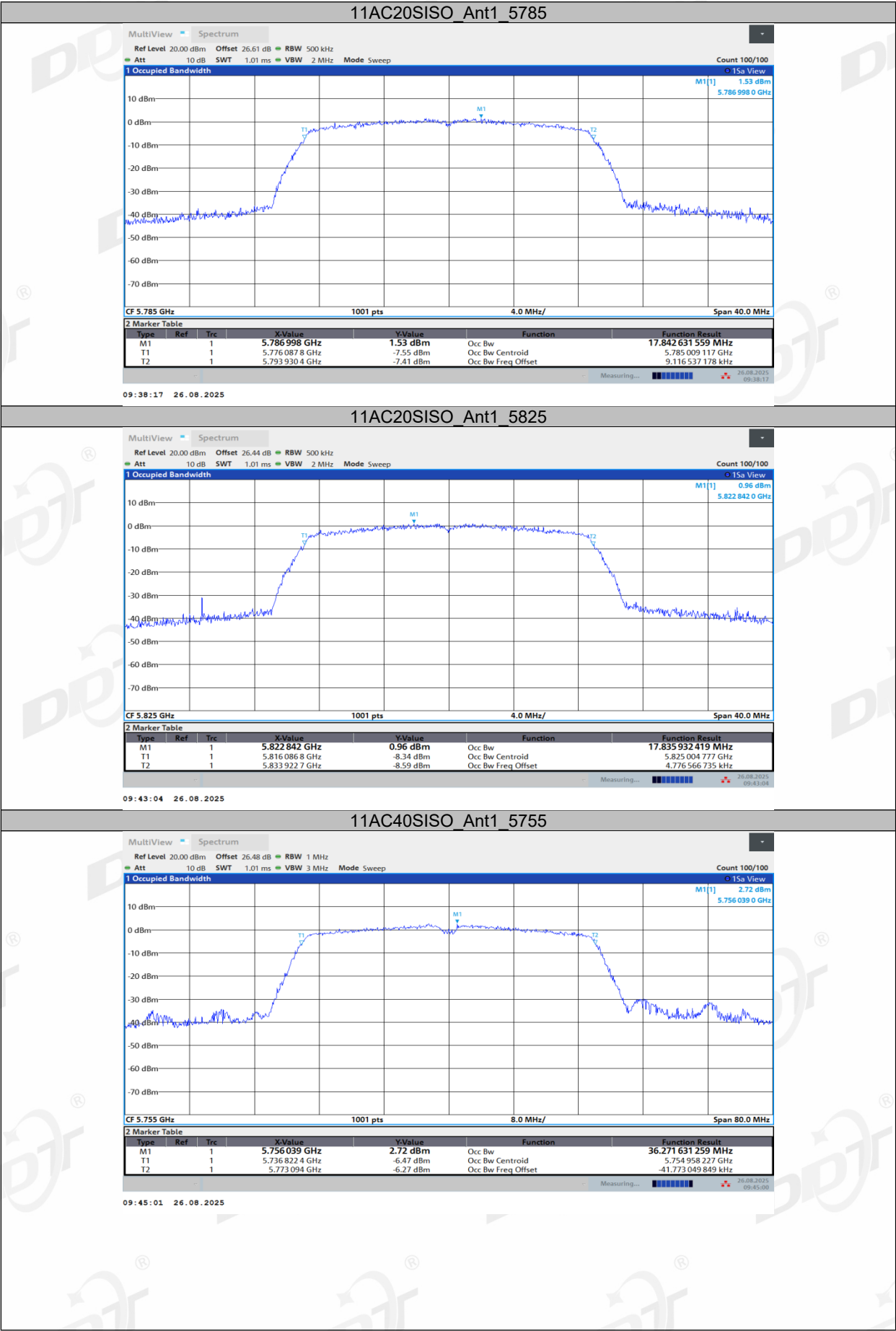
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	17.130	---	---
		5785	17.231	---	---
		5825	17.344	---	---
11N20SISO	Ant1	5745	17.969	---	---
		5785	18.053	---	---
		5825	17.907	---	---
11N40SISO	Ant1	5755	36.259	---	---
		5795	36.181	---	---
11AC20SISO	Ant1	5745	17.814	---	---
		5785	17.843	---	---
		5825	17.836	---	---
11AC40SISO	Ant1	5755	36.272	---	---
		5795	36.253	---	---
11AC80SISO	Ant1	5775	75.437	---	---

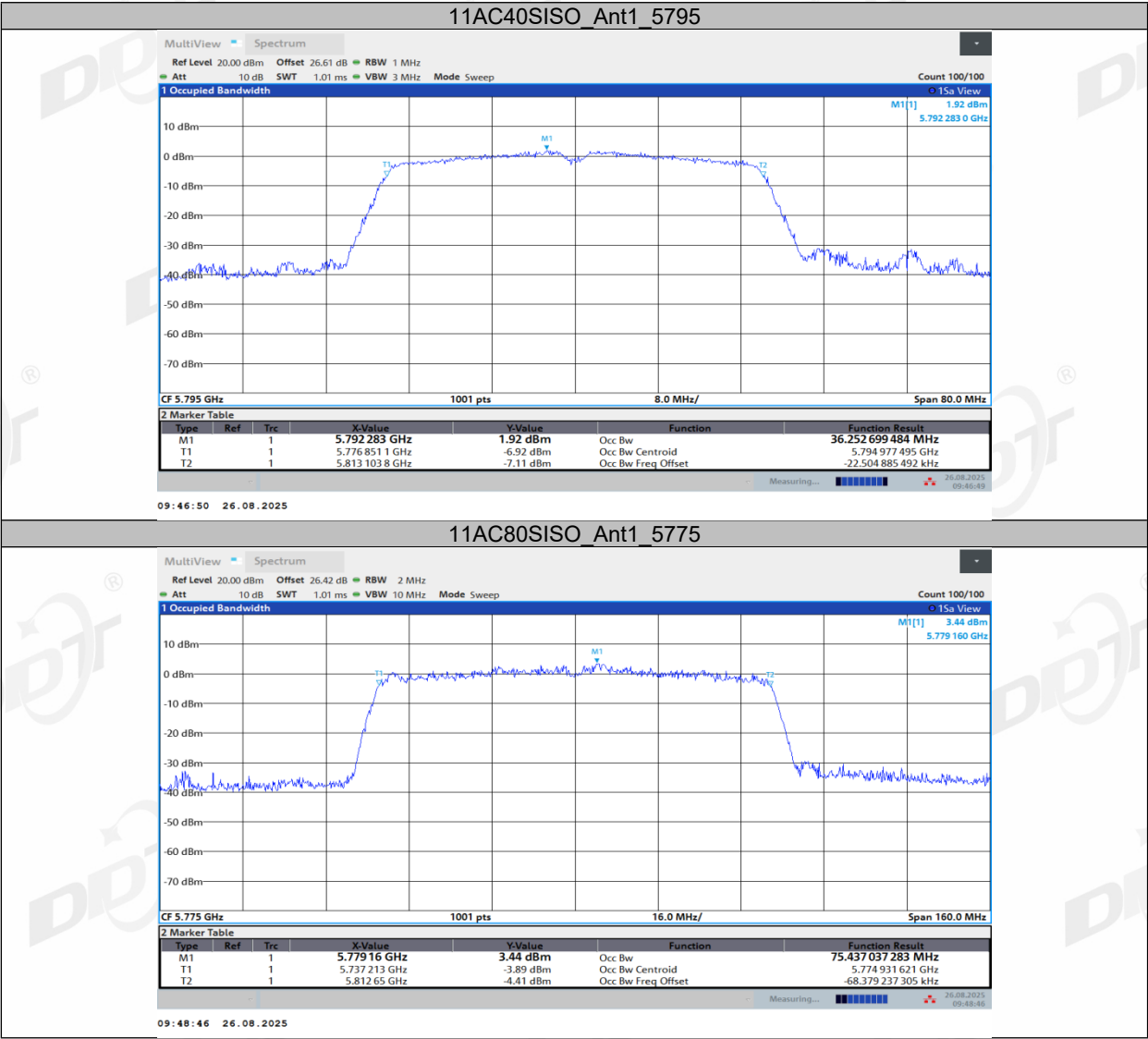
5.5. Test graphs





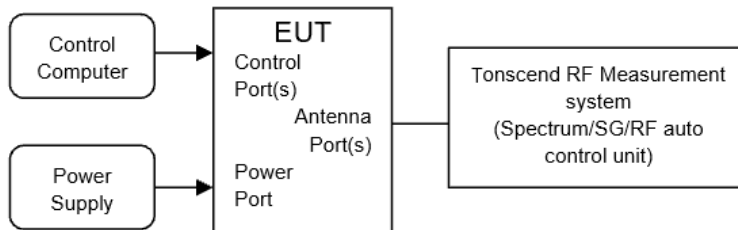






6. Maximum Output Power

6.1. Block diagram of test setup



6.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Maximum Output Power	For FCC: outdoor access point: 1 W(30 dBm) indoor access point: 1 W(30 dBm) fixed point-to-point access points 1 W(30 dBm) client devices: 250 mW (23.98 dBm)	5150-5250
	For RSS: e.i.r.p. power: not exceed 200 mW (23.01 dBm) or $10 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	
	1 Watt (30 dBm)	5725-5850
Note 1: For FCC: $B=26$ bandwidth; For ISDE: $B=99\%$ bandwidth. Note 2: If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and operating in 5725-5850 band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.		

6.3. Test procedure

Connect each EUT's antenna output to power sensor by RF cable and attenuator

Measure the output power of each antenna port by power sensor.

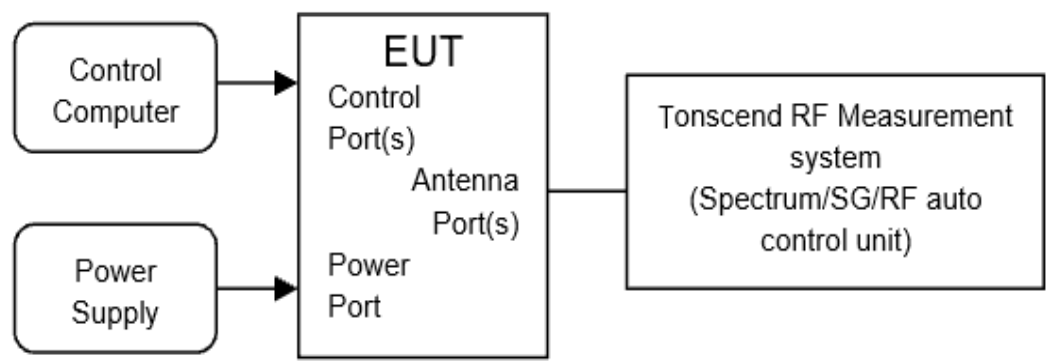
6.4. Test result channel power

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	23.2-28.4℃,42.3-47.9%RH	Test Date:	2025.08.13-2025.09.04
Test Power Supply:	DC 12V	Sample Number:	S25072134-005

Test Mode	Antenna	Frequency [MHz]	Duty Cycle [%]	Duty Cycle Factor	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	96.53	0.15	19.23	≤30.00	PASS
		5785	97.20	0.12	18.57	≤30.00	PASS
		5825	96.53	0.15	18.08	≤30.00	PASS
11N20SISO	Ant1	5745	96.30	0.16	19.23	≤30.00	PASS
		5785	95.93	0.18	18.61	≤30.00	PASS
		5825	95.90	0.18	18.05	≤30.00	PASS
11N40SISO	Ant1	5755	92.06	0.36	19.10	≤30.00	PASS
		5795	93.65	0.28	18.44	≤30.00	PASS
11AC20SISO	Ant1	5745	95.97	0.18	19.15	≤30.00	PASS
		5785	95.97	0.18	18.65	≤30.00	PASS
		5825	95.97	0.18	18.09	≤30.00	PASS
11AC40SISO	Ant1	5755	92.19	0.35	19.10	≤30.00	PASS
		5795	92.19	0.35	18.56	≤30.00	PASS
11AC80SISO	Ant1	5775	85.29	0.69	19.01	≤30.00	PASS

7. Power Spectral Density

7.1. Block diagram of test setup



7.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	For FCC: Other than Mobile and portable:17 dBm/MHz Mobile and portable client devices:11 dBm/MHz	5150-5250
	For RSS eirp: 10 dBm/MHz	
	11 dBm/MHz	5250-5350
	11 dBm/MHz	For FCC: 5470 - 5725 For ISDE: 5470 - 5600 5650 - 5725
	30 dBm/500 kHz	5725-5850
Note: If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, but for fixed point-to-point transmitters operating in 5150-5250MHz band that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum Power Spectral Density.		

7.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5725 MHz-5850 MHz

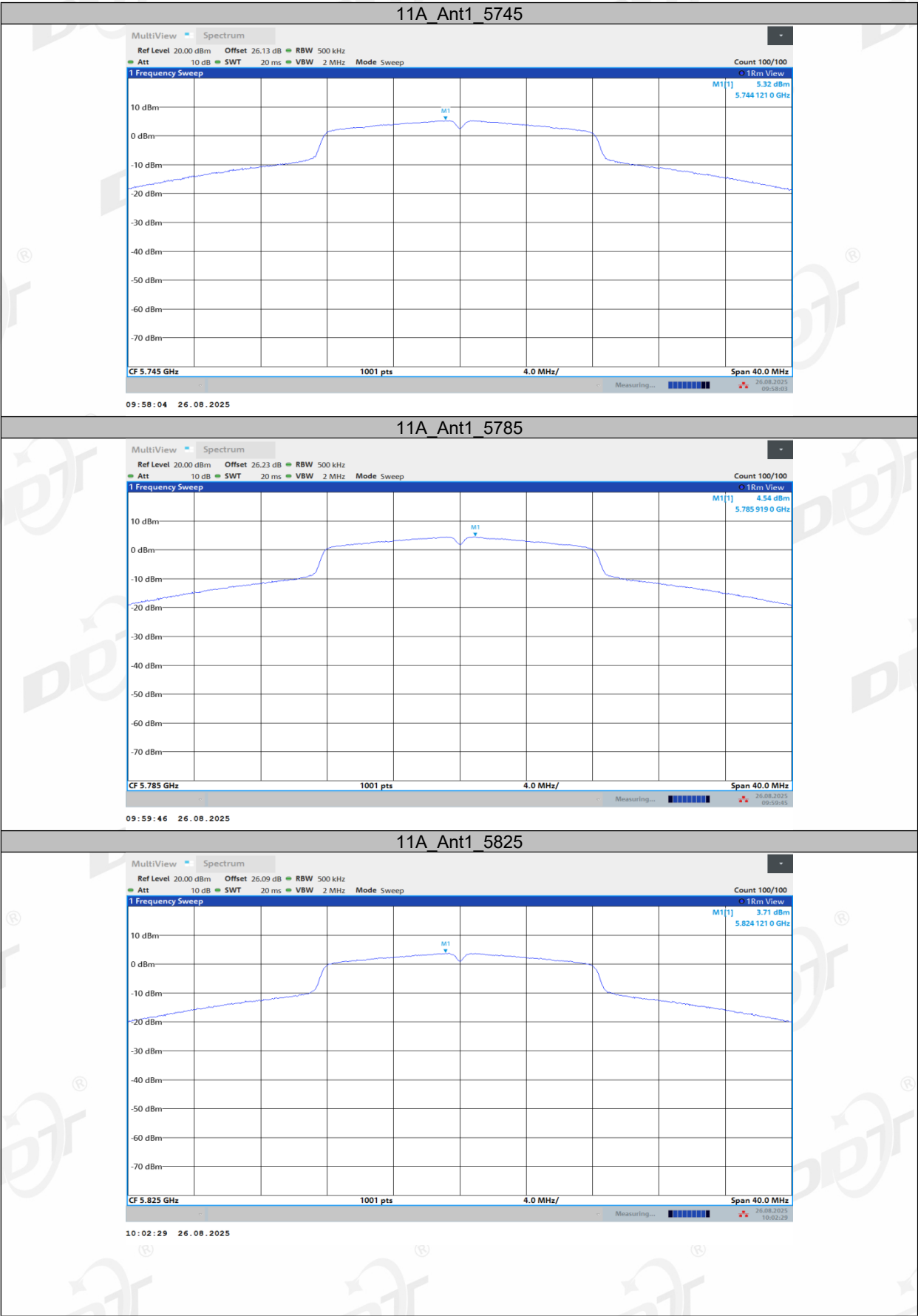
Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

7.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	23.2-28.4℃,42.3-47.9%RH	Test Date:	2025/8/26
Test Power Supply:	DC 12V	Sample Number:	S25072134-005

Test Mode	Antenna	Frequency [MHz]	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5745	5.32	≤30.00	PASS
		5785	4.54	≤30.00	PASS
		5825	3.71	≤30.00	PASS
11N20SISO	Ant1	5745	5.04	≤30.00	PASS
		5785	4.39	≤30.00	PASS
		5825	3.44	≤30.00	PASS
11N40SISO	Ant1	5755	1.85	≤30.00	PASS
		5795	1.09	≤30.00	PASS
11AC20SISO	Ant1	5745	4.98	≤30.00	PASS
		5785	4.37	≤30.00	PASS
		5825	3.44	≤30.00	PASS
11AC40SISO	Ant1	5755	1.84	≤30.00	PASS
		5795	1.21	≤30.00	PASS
11AC80SISO	Ant1	5775	-1.44	≤30.00	PASS

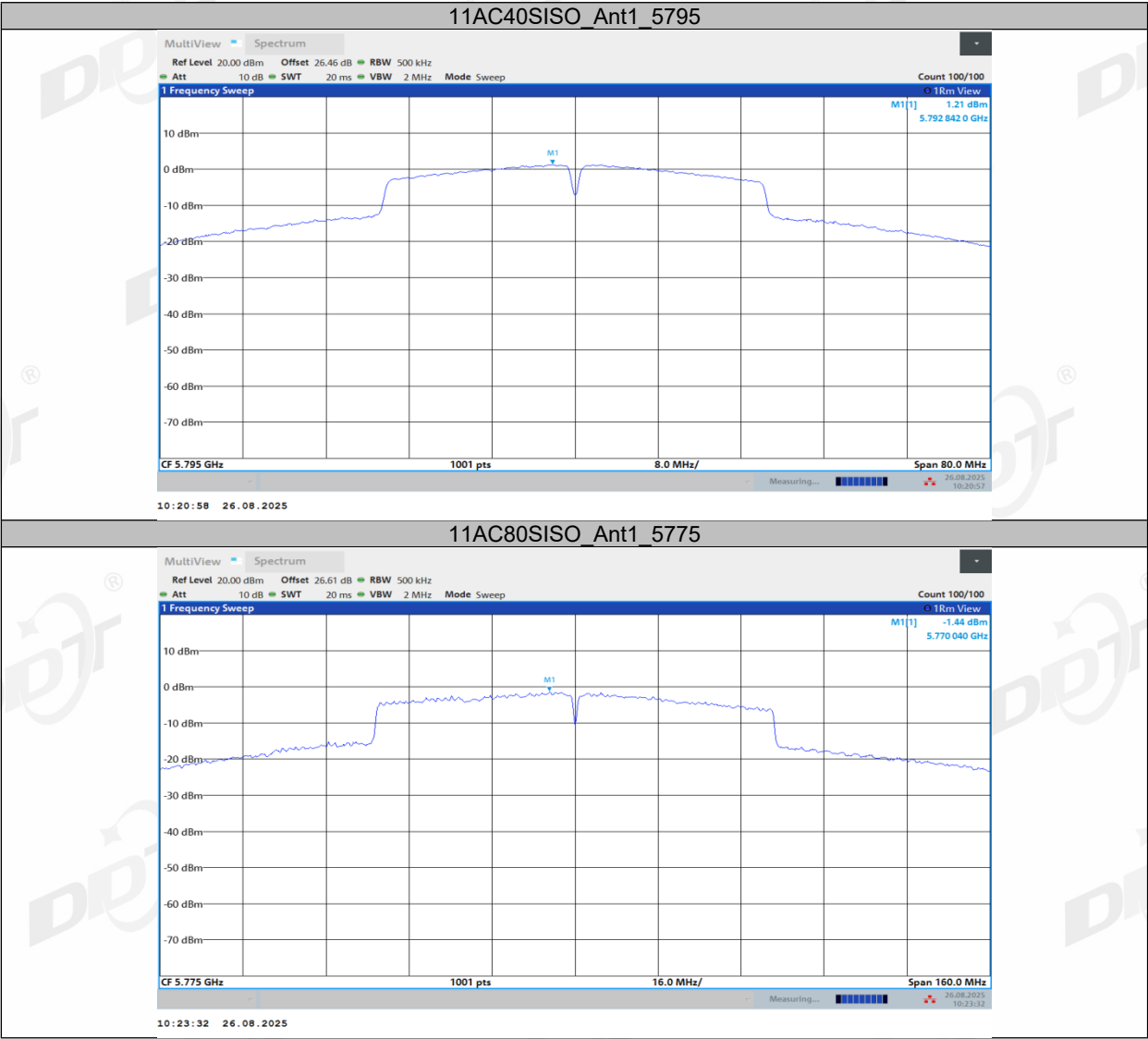
7.5. Test graphs











8. Frequency Stability Measurement

8.1. Limit of Frequency Stability

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.

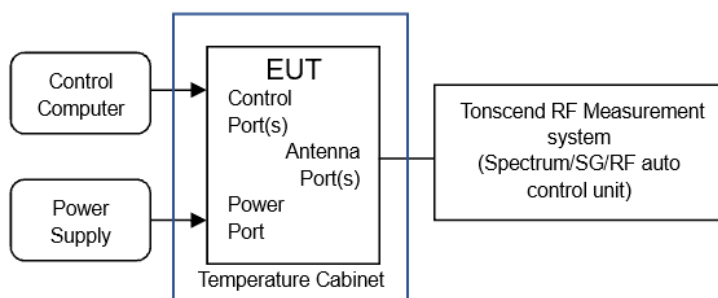
8.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

8.3. Test procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

8.4. Test setup



8.5. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	23.2-28.4℃,42.3-47.9%RH	Test Date:	2025/8/26
Test Power Supply:	DC 12V	Sample Number:	S25072134-005

Voltage								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	NT	20000.00	3.481288	----	PASS
			LV	NT	0.00	0.000000	----	PASS
			HV	NT	20000.00	3.481288	----	PASS
		5785	NV	NT	20000.00	3.457217	----	PASS
			LV	NT	0.00	0.000000	----	PASS
			HV	NT	0.00	0.000000	----	PASS
		5825	NV	NT	0.00	0.000000	----	PASS
			LV	NT	20000.00	3.433476	----	PASS
			HV	NT	20000.00	3.433476	----	PASS
11AC80SISO	Ant1	5775	NV	NT	0.00	0.000000	----	PASS
			LV	NT	0.00	0.000000	----	PASS
			HV	NT	0.00	0.000000	----	PASS

Temperature								
Test Mode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-20	-20000.00	-3.481288	----	PASS
			NV	-10	-20000.00	-3.481288	----	PASS
			NV	0	0.00	0.000000	----	PASS
			NV	10	0.00	0.000000	----	PASS
			NV	20	20000.00	3.481288	----	PASS
			NV	30	0.00	0.000000	----	PASS
			NV	40	20000.00	3.481288	----	PASS
			NV	50	0.00	0.000000	----	PASS
			NV	60	20000.00	3.481288	----	PASS

		5785	NV	70	20000.00	3.481288	----	PASS
			NV	-20	20000.00	3.457217	----	PASS
			NV	-10	20000.00	3.457217	----	PASS
			NV	0	20000.00	3.457217	----	PASS
			NV	10	20000.00	3.457217	----	PASS
			NV	20	20000.00	3.457217	----	PASS
			NV	30	0.00	0.000000	----	PASS
			NV	40	-20000.00	-3.457217	----	PASS
			NV	50	20000.00	3.457217	----	PASS
			NV	60	20000.00	3.457217	----	PASS
			NV	70	20000.00	3.457217	----	PASS
		5825	NV	-20	20000.00	3.433476	----	PASS
			NV	-10	20000.00	3.433476	----	PASS
			NV	0	0.00	0.000000	----	PASS
			NV	10	20000.00	3.433476	----	PASS
			NV	20	20000.00	3.433476	----	PASS
			NV	30	20000.00	3.433476	----	PASS
			NV	40	20000.00	3.433476	----	PASS
			NV	50	20000.00	3.433476	----	PASS
			NV	60	20000.00	3.433476	----	PASS
			NV	70	20000.00	3.433476	----	PASS
11AC80SIS O	Ant1	5775	NV	-20	0.00	0.000000	----	PASS
			NV	-10	0.00	0.000000	----	PASS
			NV	0	0.00	0.000000	----	PASS
			NV	10	0.00	0.000000	----	PASS
			NV	20	0.00	0.000000	----	PASS
			NV	30	0.00	0.000000	----	PASS
			NV	40	0.00	0.000000	----	PASS
			NV	50	0.00	0.000000	----	PASS
			NV	60	0.00	0.000000	----	PASS
			NV	70	0.00	0.000000	----	PASS

9. Antenna Requirements

9.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For intentional device, according to RSS-Gen issue 5 section 6.8.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

9.2. Result

The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

10. Radiated Emission

10.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To	Cal. Interval
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2026/03/28	1 Year
Radiation disturbance fully automated test software	Tonscend	JS32-RE	DDT-ZC02739	/	/
Pre-amplifier	SONOMA	310N	DDT-ZC01969	2026/07/06	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2026/03/28	1 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2026/03/28	1 Year
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	/	/
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2026/10/10	1 Year
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2026/03/28	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2026/03/28	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2026/08/10	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2026/03/28	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2026/03/28	1 Year
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2026/03/28	1 Year
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	/
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2026/04/01	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2026/07/25	1 Year
Hochgewinn-Hornantenne	SCHWARZBECK	BBHA 9120 D	DDT-ZC02129	2026/08/11	1 Year
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2026/08/18	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2026/03/28	1 Year