



RADIO TEST REPORT

Applicant	:	Guangzhou Chuangrui Vehicle Devices Ltd.,co.
Address of Applicant	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C
Manufacturer	:	Guangzhou Chuangrui Vehicle Devices Ltd.,co.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C
Equipment under Test	:	Meter
Model No.	:	5LY0-MMS-00
FCC ID	:	2BTEP-5GY0MMS00
IC	:	34894-5GY0MMS00
Test Standard(s)	:	47 CFR Part 15 Subpart E, 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, 789033 D02 General U-NII Test Procedures New Rules v02r01, 662911 D01 Multiple Transmitter Output v02r01
Report No.	:	DDT-RE25072428-1E04
Issue Date	:	2026/01/14
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

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Test Report Declare

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Address of Applicant	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C
Equipment under Test	:	Meter
Model No.	:	5LY0-MMS-00
Manufacturer	:	Guangzhou Chuangrui Vehicle Devices Ltd.,co.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C

Test Standard Used:

47 CFR Part 15 Subpart E,

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,

789033 D02 General U-NII Test Procedures New Rules v02r01,

662911 D01 Multiple Transmitter Output v02r01

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-RE25072428-1E04		
Date of Receipt:	2025/07/31	Date of Test:	2025/07/31 - 2025/11/20

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Ella Gong
		
2025/11/20	2026/01/13	2026/01/14 检验检测专用章

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	2026/01/14	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	Antenna Requirement	47 CFR Part 15.203, RSS-Gen clause 6.8	/	Pass
8	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h), RSS-247 Clause 7.3.6	/	N/A
9	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	N/A
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
Model Number	:	5LY0-MMS-00
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 12V
Antenna Type	:	FPC antenna
Max Antenna Gain (dBi)	:	7.07

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)

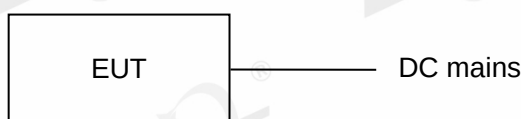
Channel information						
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)			IEEE 802.11n (HT40) IEEE802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-3						
149	5745	151	5755	155	5775	
153	5765	159	5795	/	/	
157	5785	/	/	/	/	
161	5805	/	/	/	/	
165	5825	/	/	/	/	

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

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	25	6	LCH: CH149	5745
		6	MCH: CH157	5785
		6	HCH: CH165	5825
IEEE 802.11n HT20	25	MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11n HT40	25	MCS 0	LCH: CH151	5755
		MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	25	MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	25	MCS 0	LCH: CH159	5755
		MCS 0	HCH: CH36	5795
IEEE 802.11ac VHT80	25	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

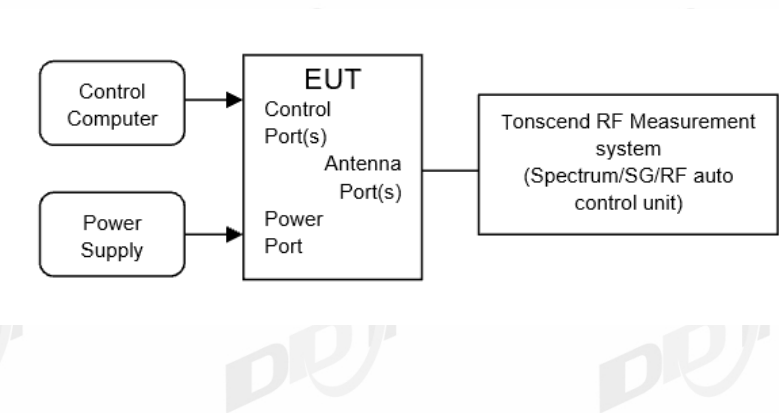
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	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	V3.6.21	N/A	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

Just for report.

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	approximately 1% of the emission bandwidth.
VBW	> 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 26 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:	26.9°C, 47.8%RH	Test Date:	2025.09.17-2025.09.17				
Test Power Supply:	DC 12V	Sample Number:	S25072428-003				

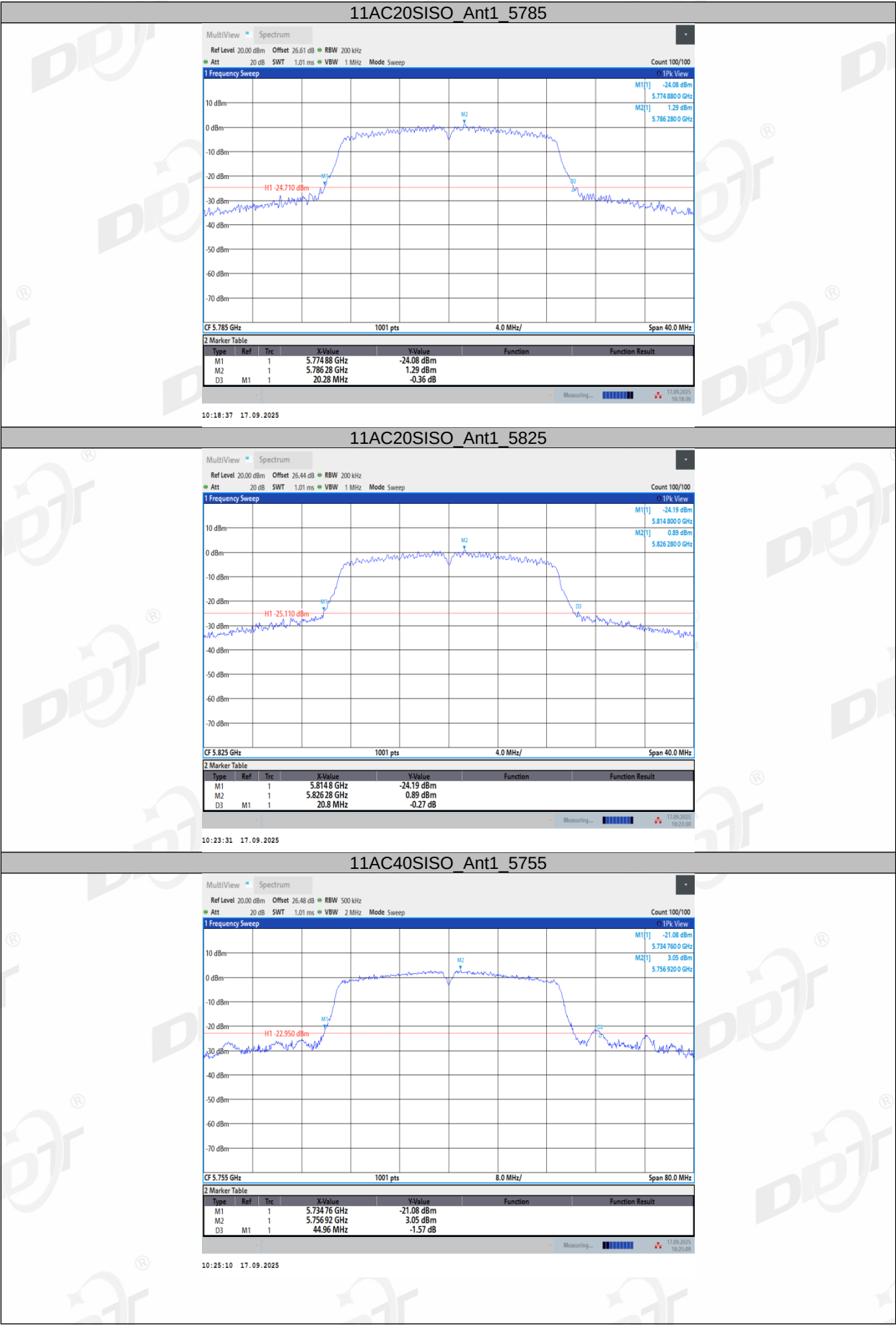
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	19.80	5735.12	5754.92	---	---
		5785	19.88	5775.04	5794.92	---	---
		5825	21.56	5814.08	5835.64	---	---
11N20SISO	Ant1	5745	20.28	5734.84	5755.12	---	---
		5785	20.68	5774.64	5795.32	---	---
		5825	20.76	5814.40	5835.16	---	---
11N40SISO	Ant1	5755	44.88	5734.76	5779.64	---	---
		5795	45.28	5774.52	5819.80	---	---
11AC20SISO	Ant1	5745	20.24	5734.88	5755.12	---	---
		5785	20.28	5774.88	5795.16	---	---
		5825	20.80	5814.80	5835.60	---	---
11AC40SISO	Ant1	5755	44.96	5734.76	5779.72	---	---
		5795	45.60	5774.60	5820.20	---	---
11AC80SISO	Ant1	5775	112.64	5719.16	5831.80	---	---

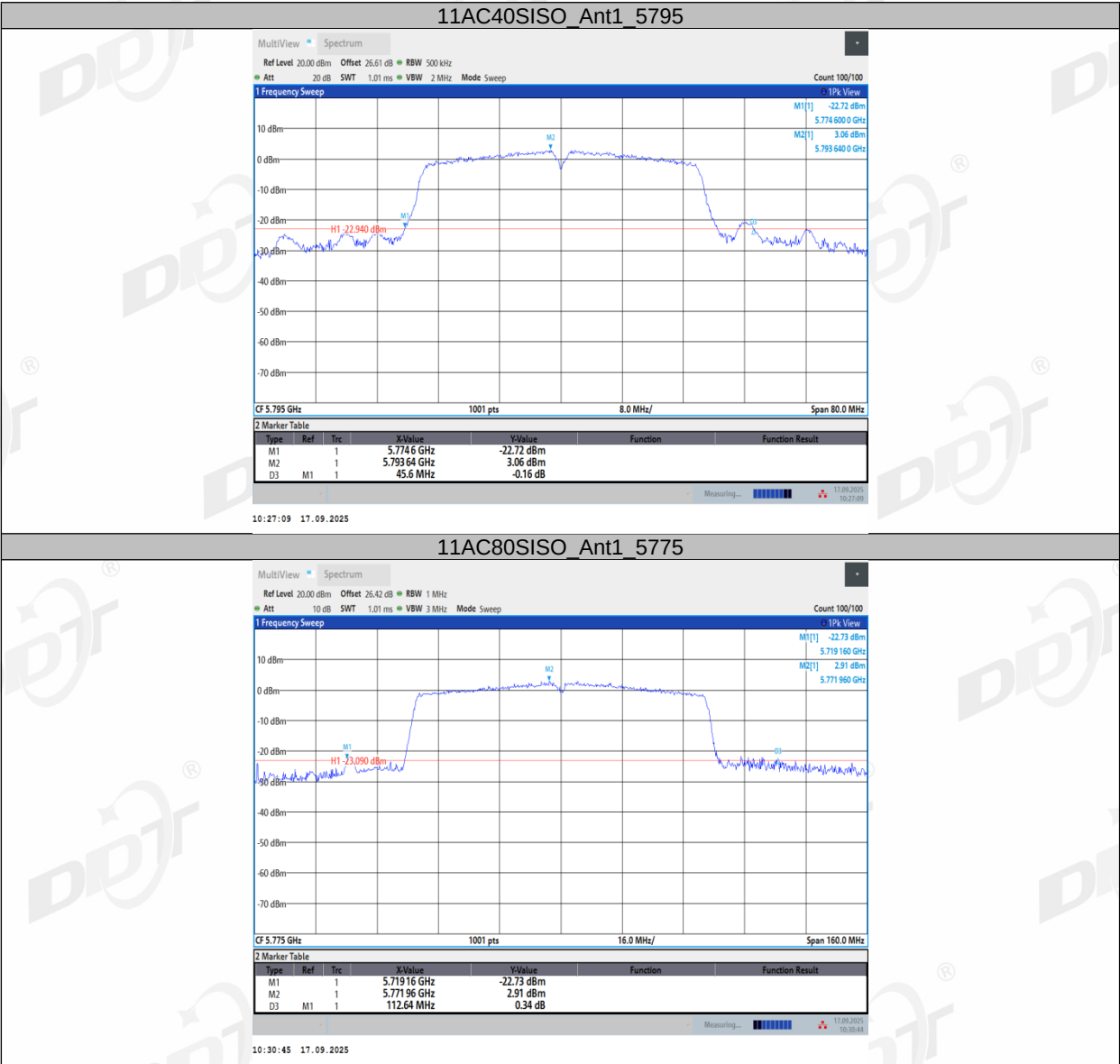
4.5. Test graphs





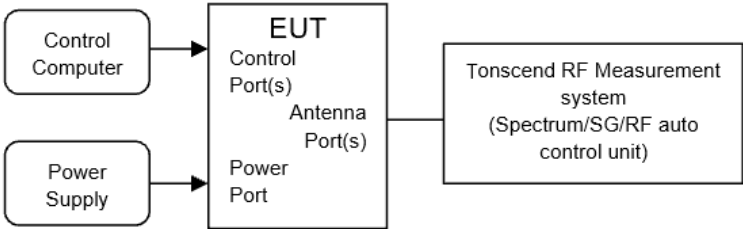






5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

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

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	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

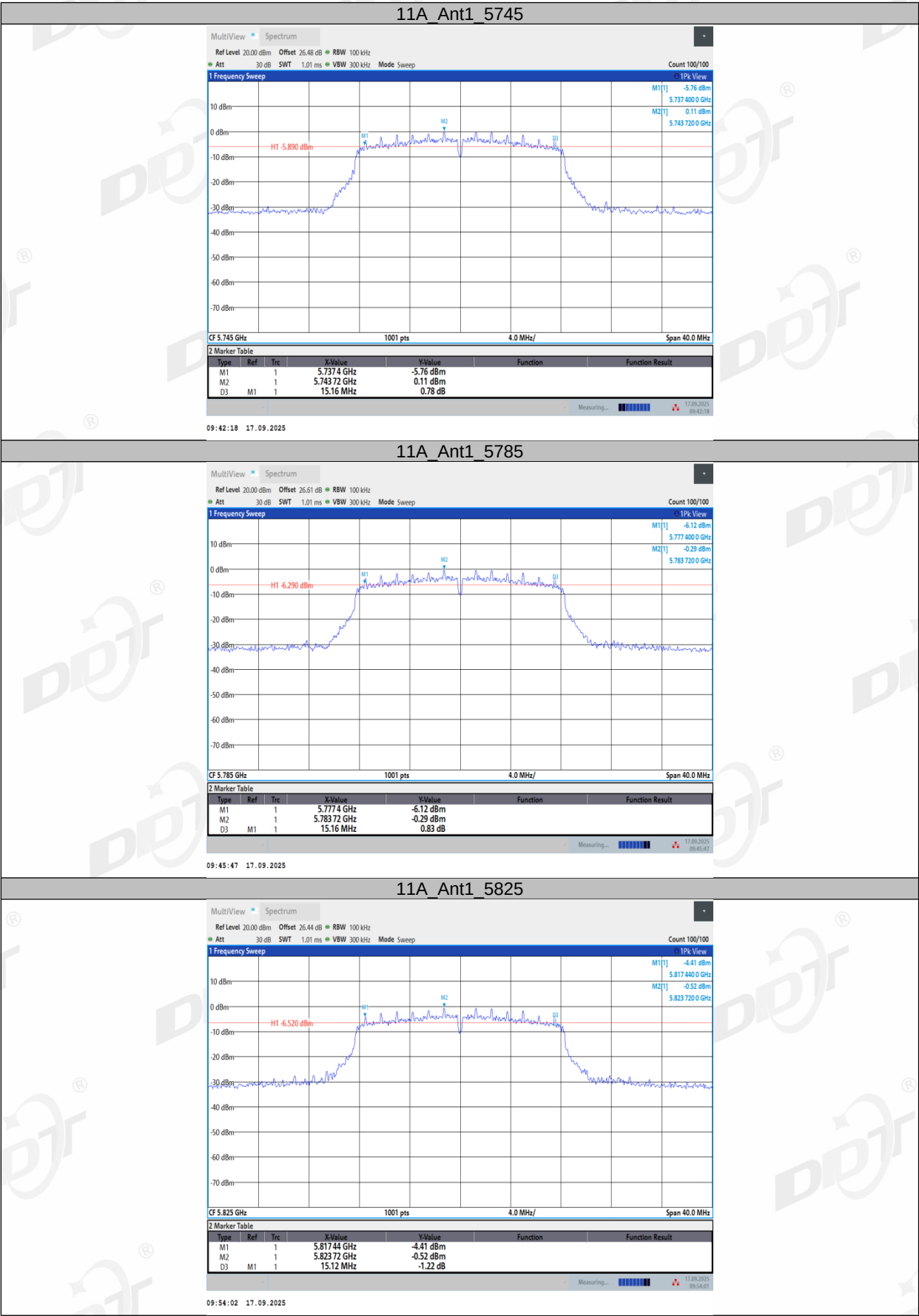
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

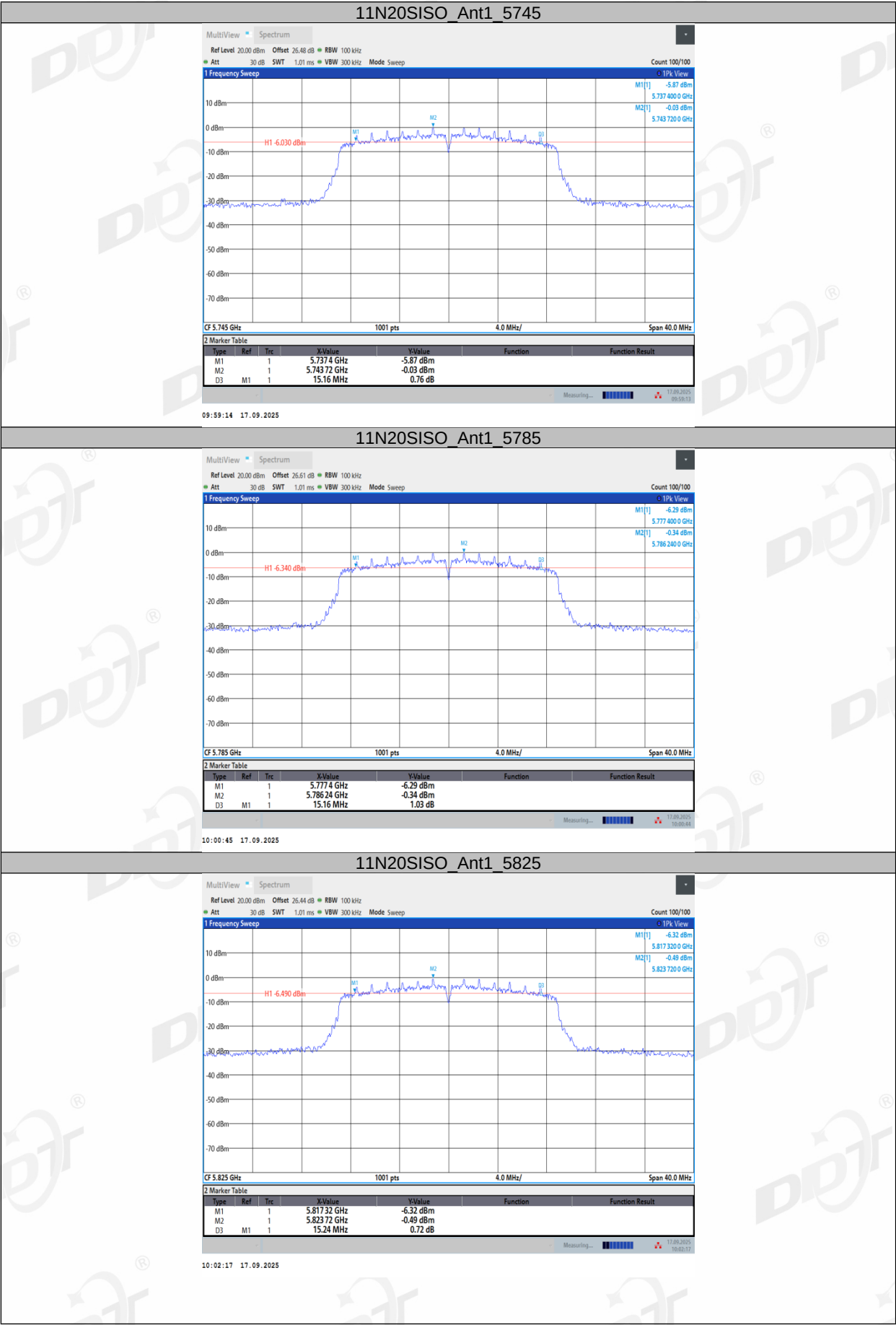
5.4. Test result B4

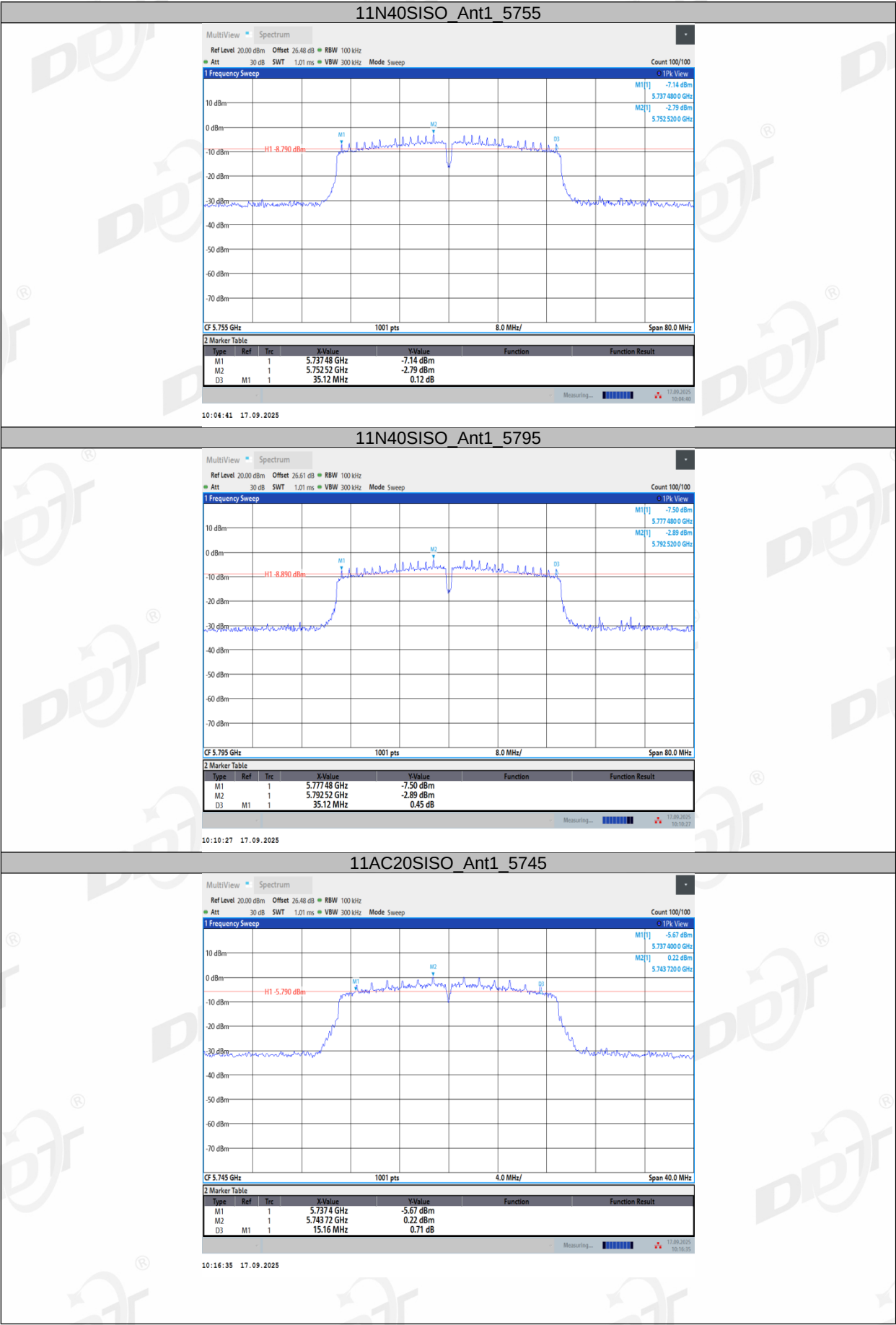
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#				
Ambient Condition:	26.9°C, 47.8%RH	Test Date:	2025.09.17-2025.09.17				
Test Power Supply:	DC 12V	Sample Number:	S25072428-003				

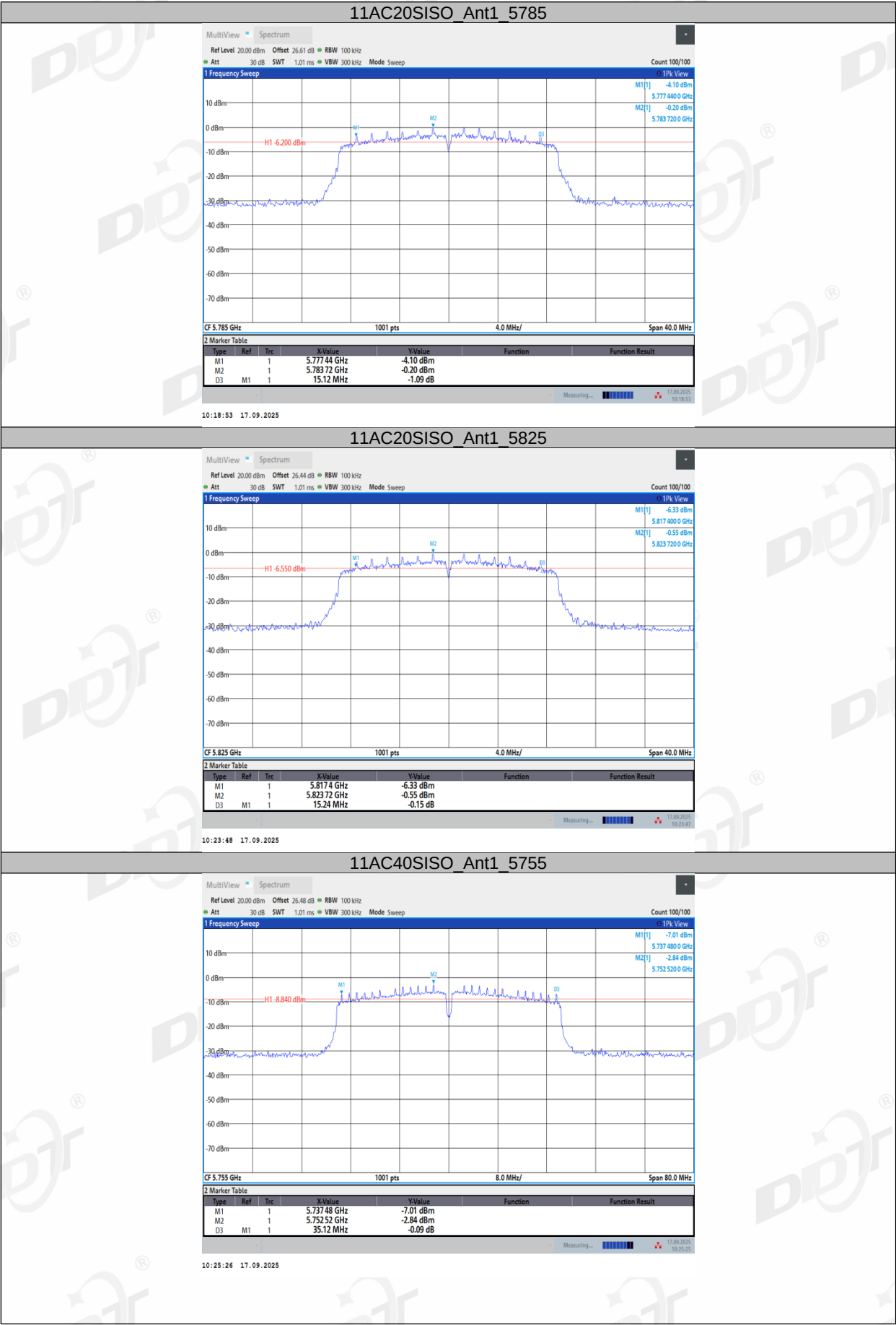
Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	15.16	5737.40	5752.56	0.5	PASS
		5785	15.16	5777.40	5792.56	0.5	PASS
		5825	15.12	5817.44	5832.56	0.5	PASS
11N20SISO	Ant1	5745	15.16	5737.40	5752.56	0.5	PASS
		5785	15.16	5777.40	5792.56	0.5	PASS
		5825	15.24	5817.32	5832.56	0.5	PASS
11N40SISO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
		5795	35.12	5777.48	5812.60	0.5	PASS
11AC20SISO	Ant1	5745	15.16	5737.40	5752.56	0.5	PASS
		5785	15.12	5777.44	5792.56	0.5	PASS
		5825	15.24	5817.40	5832.64	0.5	PASS
11AC40SISO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
		5795	35.12	5777.48	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs B4





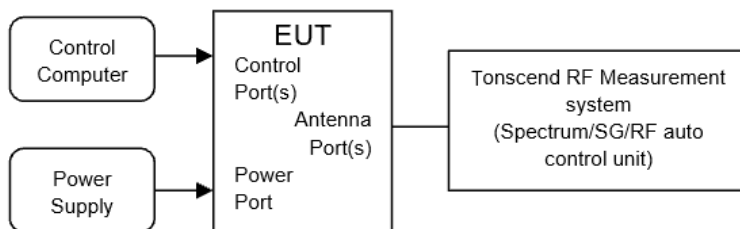






6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

- (1) 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

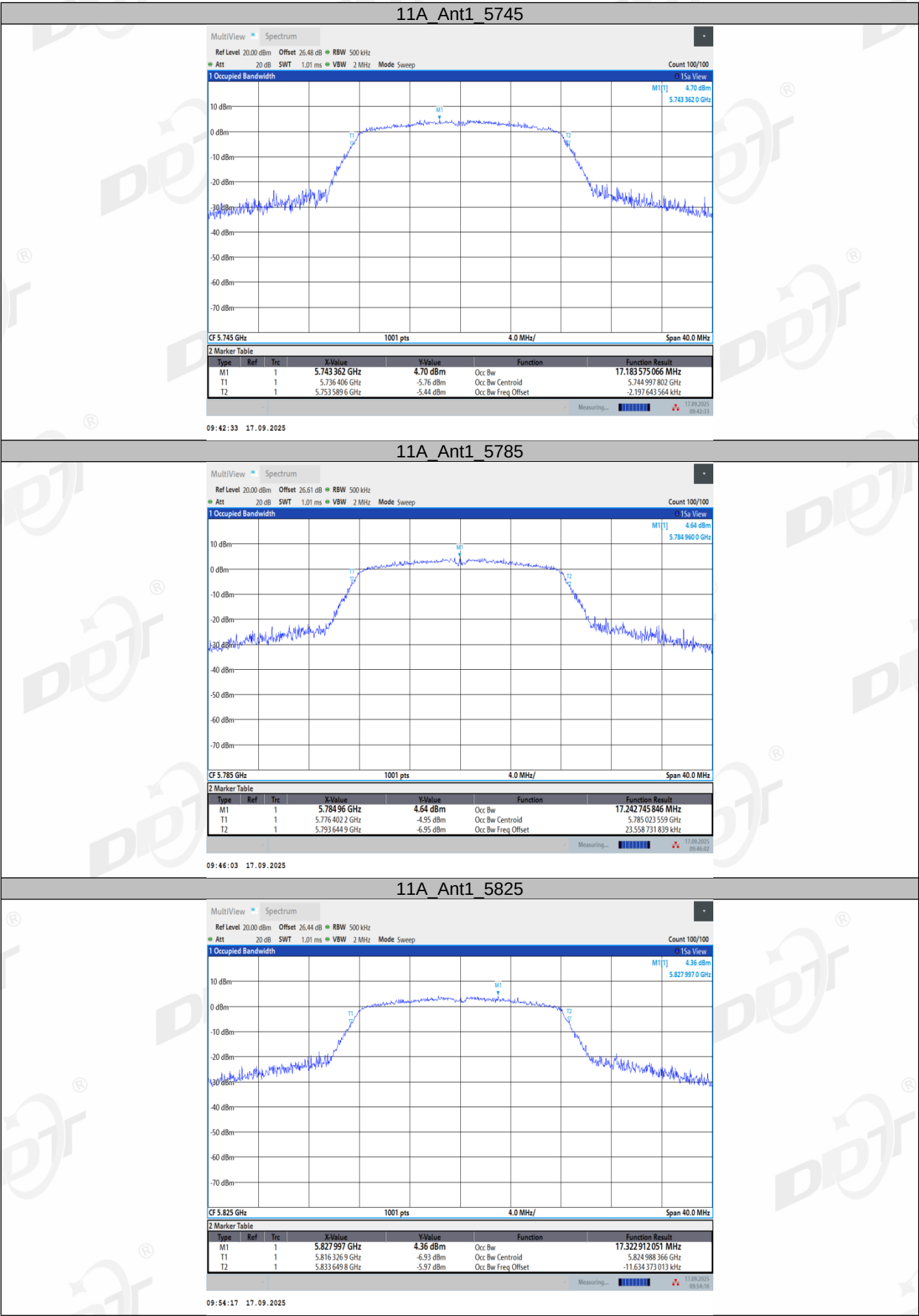
- (2) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

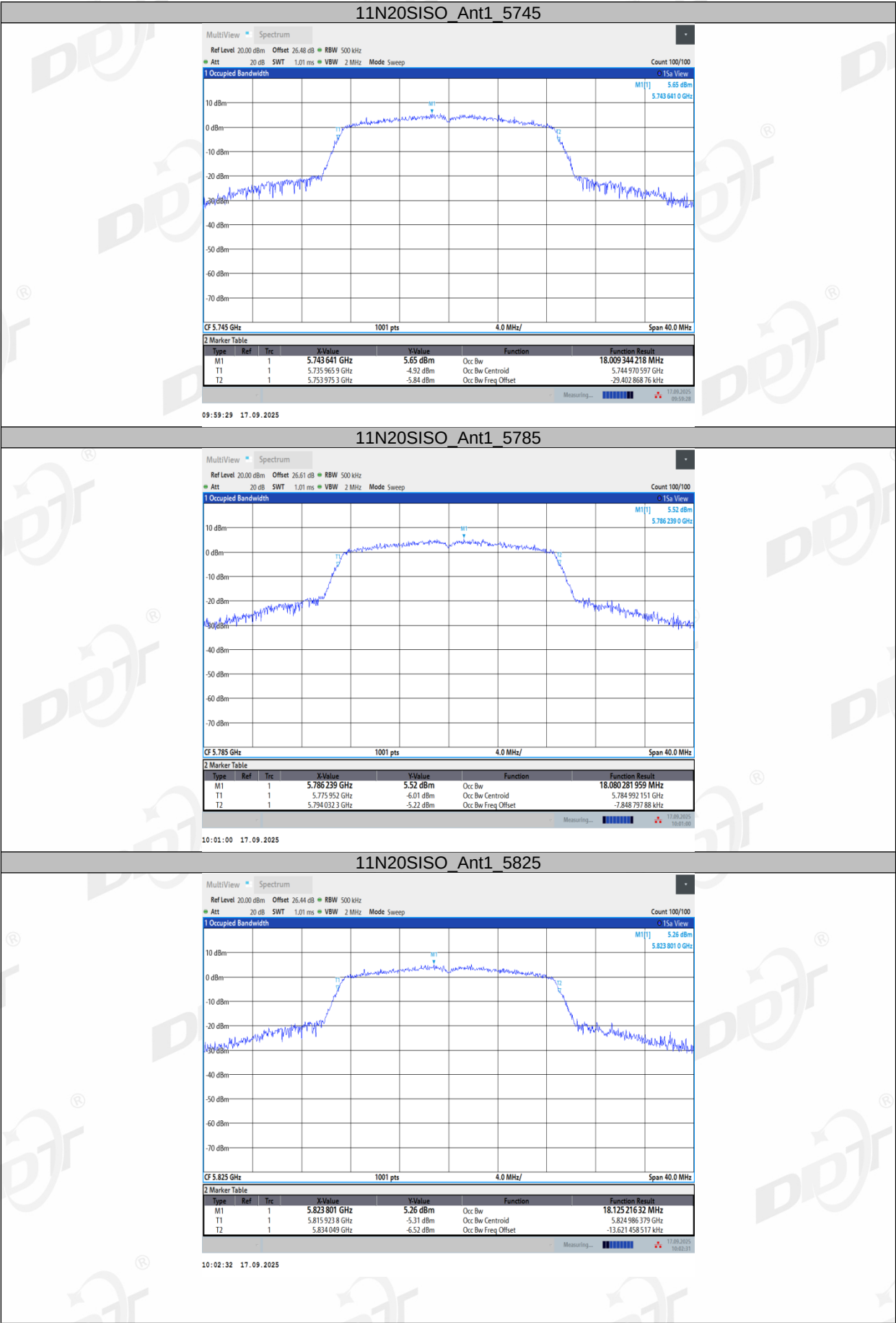
6.4. Test result

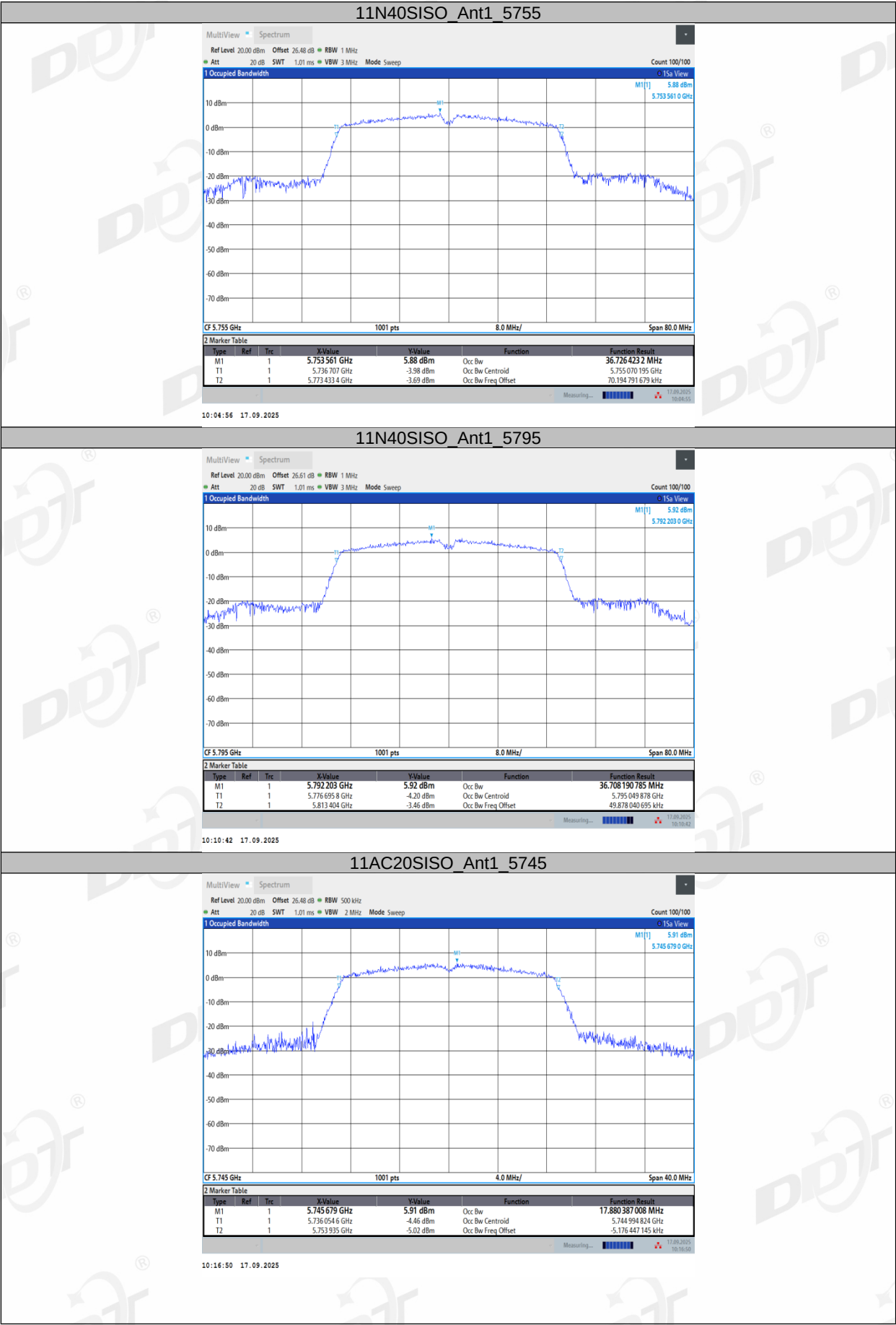
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#				
Ambient Condition:	26.9°C, 47.8%RH	Test Date:	2025.09.17-2025.09.17				
Test Power Supply:	DC 12V	Sample Number:	S25072428-003				

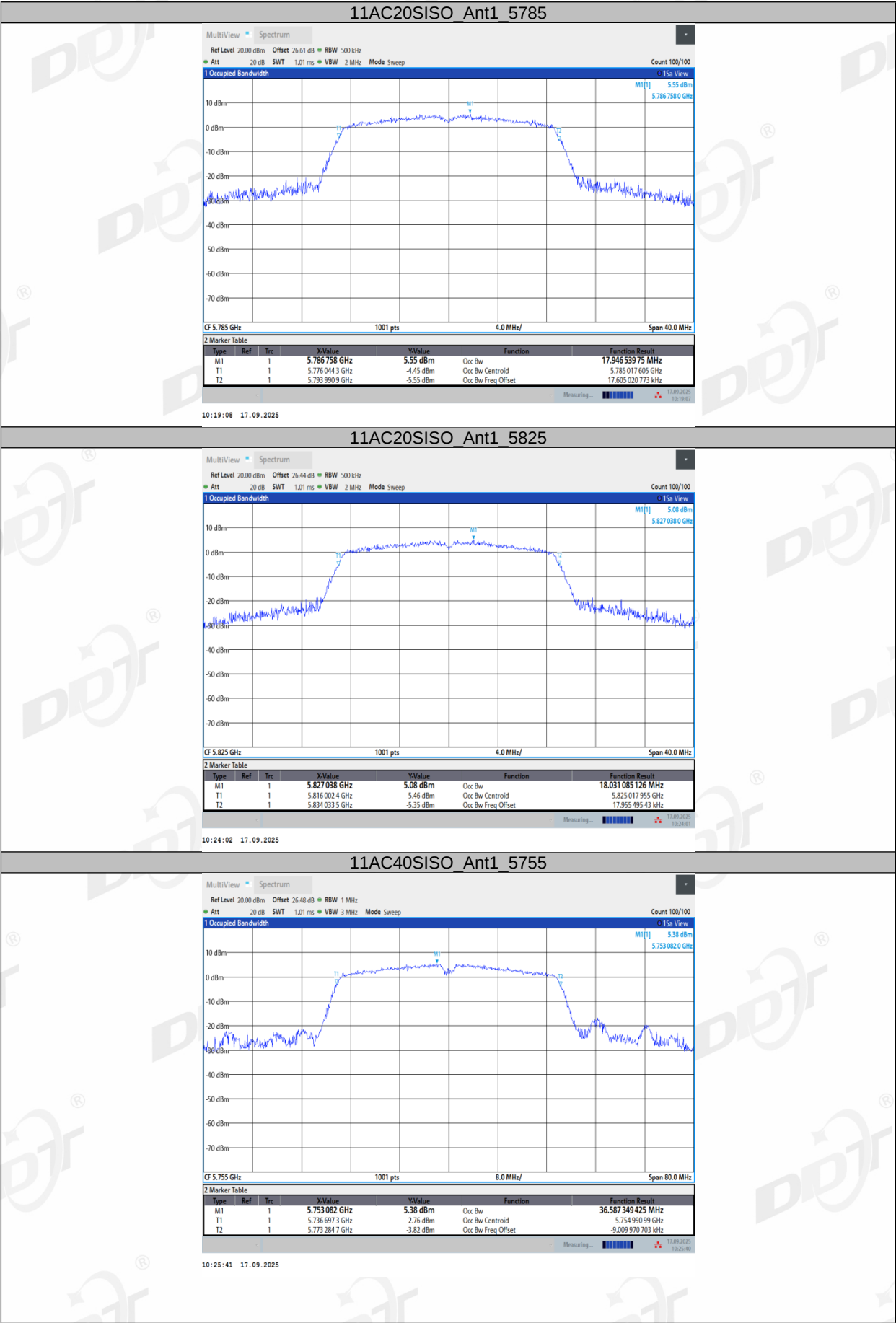
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	17.184	5736.4060	5753.5896	---	---
		5785	17.243	5776.4022	5793.6449	---	---
		5825	17.323	5816.3269	5833.6498	---	---
11N20SISO	Ant1	5745	18.009	5735.9659	5753.9753	---	---
		5785	18.080	5775.9520	5794.0323	---	---
		5825	18.125	5815.9238	5834.0490	---	---
11N40SISO	Ant1	5755	36.726	5736.7070	5773.4334	---	---
		5795	36.708	5776.6958	5813.4040	---	---
11AC20SISO	Ant1	5745	17.880	5736.0546	5753.9350	---	---
		5785	17.947	5776.0443	5793.9909	---	---
		5825	18.031	5816.0024	5834.0335	---	---
11AC40SISO	Ant1	5755	36.587	5736.6973	5773.2847	---	---
		5795	36.601	5776.7442	5813.3456	---	---
11AC80SISO	Ant1	5775	75.850	5736.9877	5812.8375	---	---

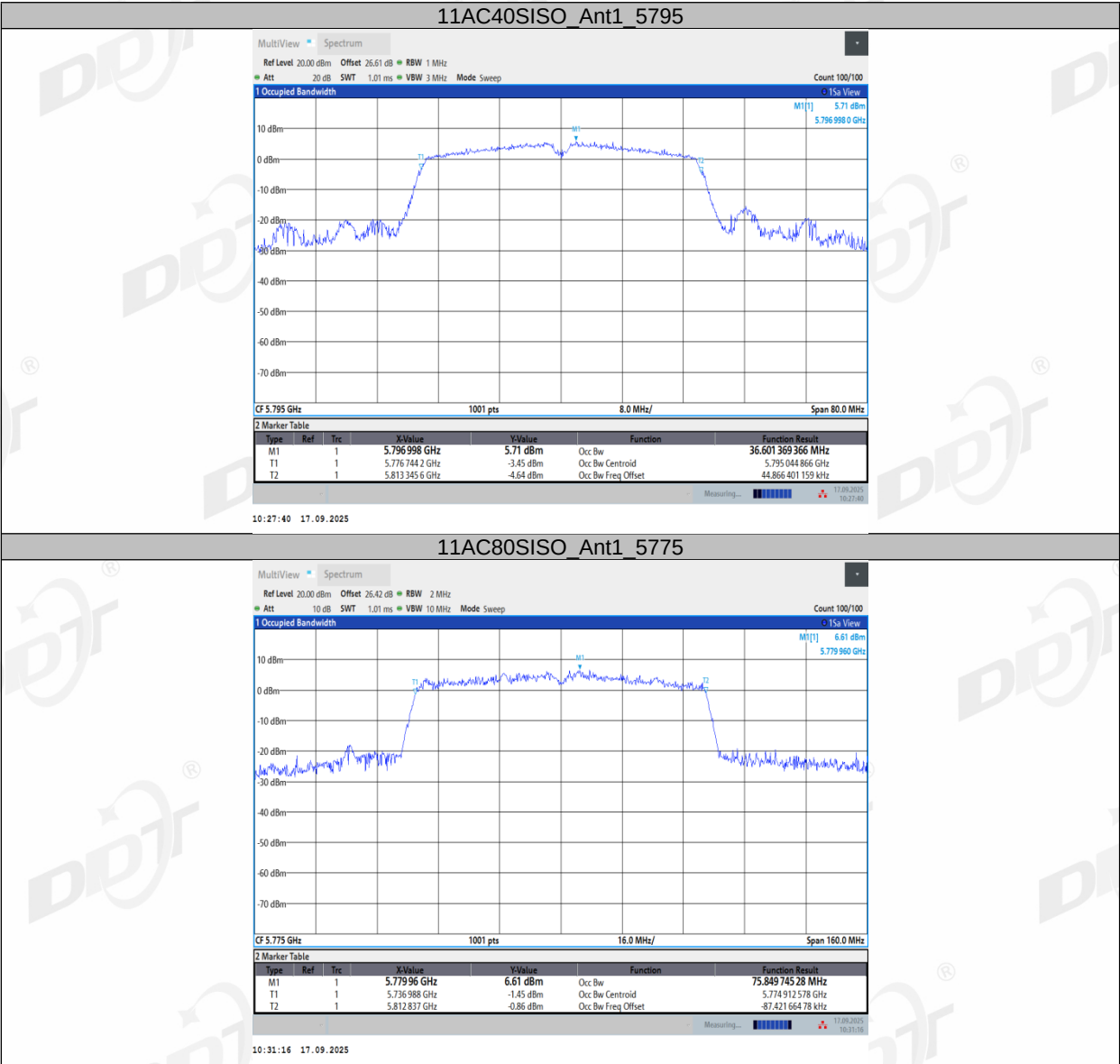
6.5. Test graphs











11AC80SISO_Ant1_5775

MultiView Spectrum

Ref Level 20.00 dBm Offset 26.42 dB RBW 2 MHz
Att 10 dB SWT 1.01 ms VBW 10 MHz Mode Sweep

Count 100/100

1 Occupied Bandwidth

10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm

CF 5.775 GHz 1001 pts 16.0 MHz/ Span 160.0 MHz

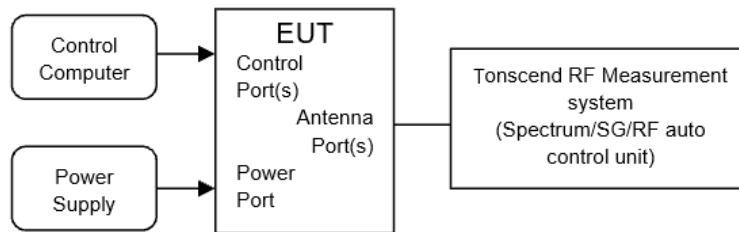
2 Marker Table

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		5.77996 GHz	6.61 dBm	Occ Bw	75.84974528 MHz
T1	1		5.736988 GHz	-1.45 dBm	Occ Bw Centroid	5.774912578 GHz
T2	1		5.812837 GHz	-0.86 dBm	Occ Bw Freq Offset	-87.42166478 kHz

Measuring... 17.09.2025 10:31:16 10:31:16

7. Duty Cycle

7.1. Block diagram of test setup



7.2. Limit

Just for Report.

7.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.

set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the middle hopping channel.

Resolution BW: 10 MHz.

Video BW: 10 MHz.

Span: Zero span.

Detector: Peak.

Trace Mode: Clear Write.

Sweep: Video Trigger

- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.

- (3) Calculate dwell time follow below formula:

Duty cycle= Pulse's on time / Burst cycle

7.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#		
Ambient Condition:	26.9°C, 47.8%RH	Test Date:	2025.09.17-2025.09.17		
Test Power Supply:	DC 12V	Sample Number:	S25072428-003		

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.39	1.43	97.20
		5785	1.39	1.43	97.20
		5825	1.40	1.44	97.22
11N20SISO	Ant1	5745	1.18	1.23	95.93
		5785	1.17	1.22	95.90
		5825	1.17	1.22	95.90
11N40SISO	Ant1	5755	0.58	0.63	92.06
		5795	0.58	0.63	92.06
11AC20SISO	Ant1	5745	1.18	1.23	95.93
		5785	1.18	1.23	95.93
		5825	1.19	1.24	95.97
11AC40SISO	Ant1	5755	0.59	0.64	92.19
		5795	0.59	0.64	92.19
11AC80SISO	Ant1	5775	0.30	0.34	88.24

7.5. Test graphs







11N40SISO_Ant1_5795

MultiView Spectrum

Ref Level 30.00 dBm Offset 26.61 dB RBW 10 MHz

Att 20 dB SWT 5 ms VBW 10 MHz

SGI Count 1/1

TRG:VID

1 Zero Span

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

TRG -10.400 dBm

CF 5.795 GHz

1001 pts

500.0 μ s

10:11:05 17.09.2025

Ready 17.09.2025 10:11:04

11AC20SISO_Ant1_5745

MultiView Spectrum

Ref Level 30.00 dBm Offset 26.48 dB RBW 10 MHz

Att 20 dB SWT 5 ms VBW 10 MHz

SGI Count 1/1

TRG:VID

1 Zero Span

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

TRG -8.100 dBm

CF 5.745 GHz

1001 pts

500.0 μ s

10:17:13 17.09.2025

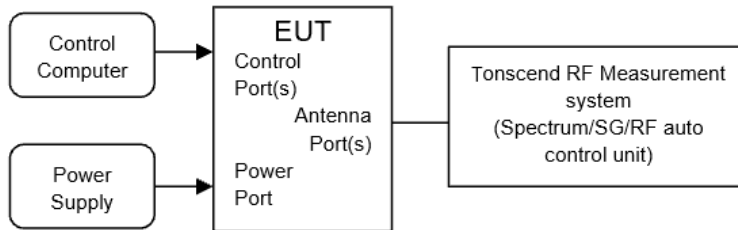
Ready 17.09.2025 10:17:12





8. Maximum Output Power

8.1. Block diagram of test setup



8.2. 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 points1 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 $10 + 10 \log_{10} B$	5250-5350
	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 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 FCC:5470 - 5725 For IC:5470 - 5600 5650 - 5725
	For RSS: For conducted output power: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	
	For RSS: e.i.r.p. power: not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$	5725-5850
	1 Watt (30 dBm)	
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.		

8.3. 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.

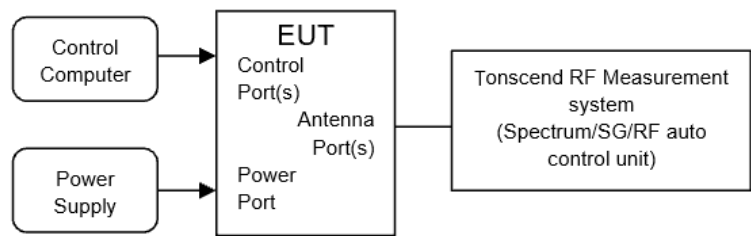
8.4. Test result channel power

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	26.9°C,47.8%RH	Test Date:	2025.09.17-2025.09.17
Test Power Supply:	DC 12V	Sample Number:	S25072428-003

Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	Verdict
11A	Ant1	5745	97.20	0.12	18.59	≤28.93	≤28.93	PASS
		5785	97.20	0.12	18.26	≤28.93	≤28.93	PASS
		5825	97.22	0.12	17.96	≤28.93	≤28.93	PASS
11N20SISO	Ant1	5745	95.93	0.18	18.57	≤28.93	≤28.93	PASS
		5785	95.90	0.18	18.26	≤28.93	≤28.93	PASS
		5825	95.90	0.18	17.97	≤28.93	≤28.93	PASS
11N40SISO	Ant1	5755	92.06	0.36	18.56	≤28.93	≤28.93	PASS
		5795	92.06	0.36	18.23	≤28.93	≤28.93	PASS
11AC20SISO	Ant1	5745	95.93	0.18	18.57	≤28.93	≤28.93	PASS
		5785	95.93	0.18	18.27	≤28.93	≤28.93	PASS
		5825	95.97	0.18	17.97	≤28.93	≤28.93	PASS
11AC40SISO	Ant1	5755	92.19	0.35	18.56	≤28.93	≤28.93	PASS
		5795	92.19	0.35	18.26	≤28.93	≤28.93	PASS
11AC80SISO	Ant1	5775	88.24	0.54	18.44	≤28.93	≤28.93	PASS

9. Power Spectral Density

9.1. Block diagram of test setup



9.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	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.		

9.3. 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	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

9.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#		
Ambient Condition:	26.9°C, 47.8%RH	Test Date:	2025.09.17-2025.09.17		
Test Power Supply:	DC 12V	Sample Number:	S25072428-003		

Test Mode	Antenna	Frequency [MHz]	Result [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5745	5.09	≤28.93	PASS
		5785	4.62	≤28.93	PASS
		5825	3.99	≤28.93	PASS
11N20SISO	Ant1	5745	4.86	≤28.93	PASS
		5785	4.49	≤28.93	PASS
		5825	3.83	≤28.93	PASS
11N40SISO	Ant1	5755	1.61	≤28.93	PASS
		5795	1.40	≤28.93	PASS
11AC20SISO	Ant1	5745	4.76	≤28.93	PASS
		5785	4.35	≤28.93	PASS
		5825	3.79	≤28.93	PASS
11AC40SISO	Ant1	5755	1.63	≤28.93	PASS
		5795	1.39	≤28.93	PASS
11AC80SISO	Ant1	5775	-1.57	≤28.93	PASS

Note: The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

