

7.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.6-27.5°C,36.9-48.2%RH	Test Date:	2026.03.01-2026.05.08
Test Power Supply:	DC 12V	Sample Number:	S25120138-006

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor
11A	Ant1	5180	2.02	3.03	66.67	-1.76
		5200	2.02	3.03	66.67	-1.76
		5240	2.03	3.03	67.00	-1.74
		5260	2.02	3.03	66.67	-1.76
		5280	2.03	3.03	67.00	-1.74
		5320	2.02	3.03	66.67	-1.76
		5500	2.03	3.03	67.00	-1.74
		5580	2.02	3.03	66.67	-1.76
		5700	2.03	3.04	66.78	-1.75
		5720	2.02	3.03	66.67	-1.76
		5745	2.03	3.03	67.00	-1.74
		5785	2.02	3.03	66.67	-1.76
		5825	2.02	3.03	66.67	-1.76
11N20SISO	Ant1	5180	1.89	2.90	65.17	-1.86
		5200	1.89	2.90	65.17	-1.86
		5240	1.89	2.90	65.17	-1.86
		5260	1.89	2.90	65.17	-1.86
		5280	1.88	2.89	65.05	-1.87
		5320	1.89	2.90	65.17	-1.86
		5500	1.89	2.90	65.17	-1.86
		5580	1.89	2.90	65.17	-1.86
		5700	1.89	2.90	65.17	-1.86
		5720	1.89	2.90	65.17	-1.86
		5745	1.89	2.90	65.17	-1.86

		5785	1.89	2.90	65.17	-1.86
		5825	1.89	2.90	65.17	-1.86
11N40SISO	Ant1	5190	0.93	1.93	48.19	-3.17
		5230	0.93	1.94	47.94	-3.19
		5270	0.93	1.94	47.94	-3.19
		5310	0.93	1.94	47.94	-3.19
		5510	0.93	1.94	47.94	-3.19
		5550	0.93	1.94	47.94	-3.19
		5670	0.93	1.94	47.94	-3.19
		5710	0.93	1.94	47.94	-3.19
		5755	0.93	1.94	47.94	-3.19
		5795	0.93	1.94	47.94	-3.19
11AC20SISO	Ant1	5180	1.89	2.90	65.17	-1.86
		5200	1.89	2.89	65.40	-1.84
		5240	1.89	2.90	65.17	-1.86
		5260	1.89	2.90	65.17	-1.86
		5280	1.89	2.90	65.17	-1.86
		5320	1.89	2.89	65.40	-1.84
		5500	1.89	2.90	65.17	-1.86
		5580	1.89	2.90	65.17	-1.86
		5700	1.89	2.89	65.40	-1.84
		5720	1.89	2.90	65.17	-1.86
		5745	1.89	2.90	65.17	-1.86
		5785	1.89	2.90	65.17	-1.86
		5825	1.89	2.90	65.17	-1.86
11AC40SISO	Ant1	5190	0.93	1.94	47.94	-3.19
		5230	0.94	1.95	48.21	-3.17
		5270	0.93	1.94	47.94	-3.19
		5310	0.93	1.93	48.19	-3.17
		5510	0.94	1.94	48.45	-3.15

		5550	0.93	1.94	47.94	-3.19
		5670	0.93	1.94	47.94	-3.19
		5710	0.93	1.94	47.94	-3.19
		5755	0.93	1.94	47.94	-3.19
		5795	0.93	1.94	47.94	-3.19
11AC80SISO	Ant1	5210	0.45	1.46	30.82	-5.11
		5290	0.45	1.45	31.03	-5.08
		5530	0.45	1.45	31.03	-5.08
		5610	0.45	1.46	30.82	-5.11
		5690	0.45	1.46	30.82	-5.11
		5775	0.45	1.45	31.03	-5.08

7.5. Test graphs



11A_Ant1_5200

11A_Ant1_5240











11N20SISO_Ant1_5260

MultiView Spectrum

Ref Level 40.00 dBm Offset 26.11 dB RBW 10 MHz

Att 10 dB SWT 10 ms VSW 10 MHz

TRG:VID

1 Zero Span

CF 5.26 GHz

1001 pts

1.0 ms

SGL Count 1/1

13:57:54 01.03.2026

13:57:54 01.03.2026

11N20SISO_Ant1_5280

MultiView Spectrum

Ref Level 40.00 dBm Offset 26.22 dB RBW 10 MHz

Att 10 dB SWT 10 ms VSW 10 MHz

TRG:VID

1 Zero Span

CF 5.28 GHz

1001 pts

1.0 ms

SGL Count 1/1

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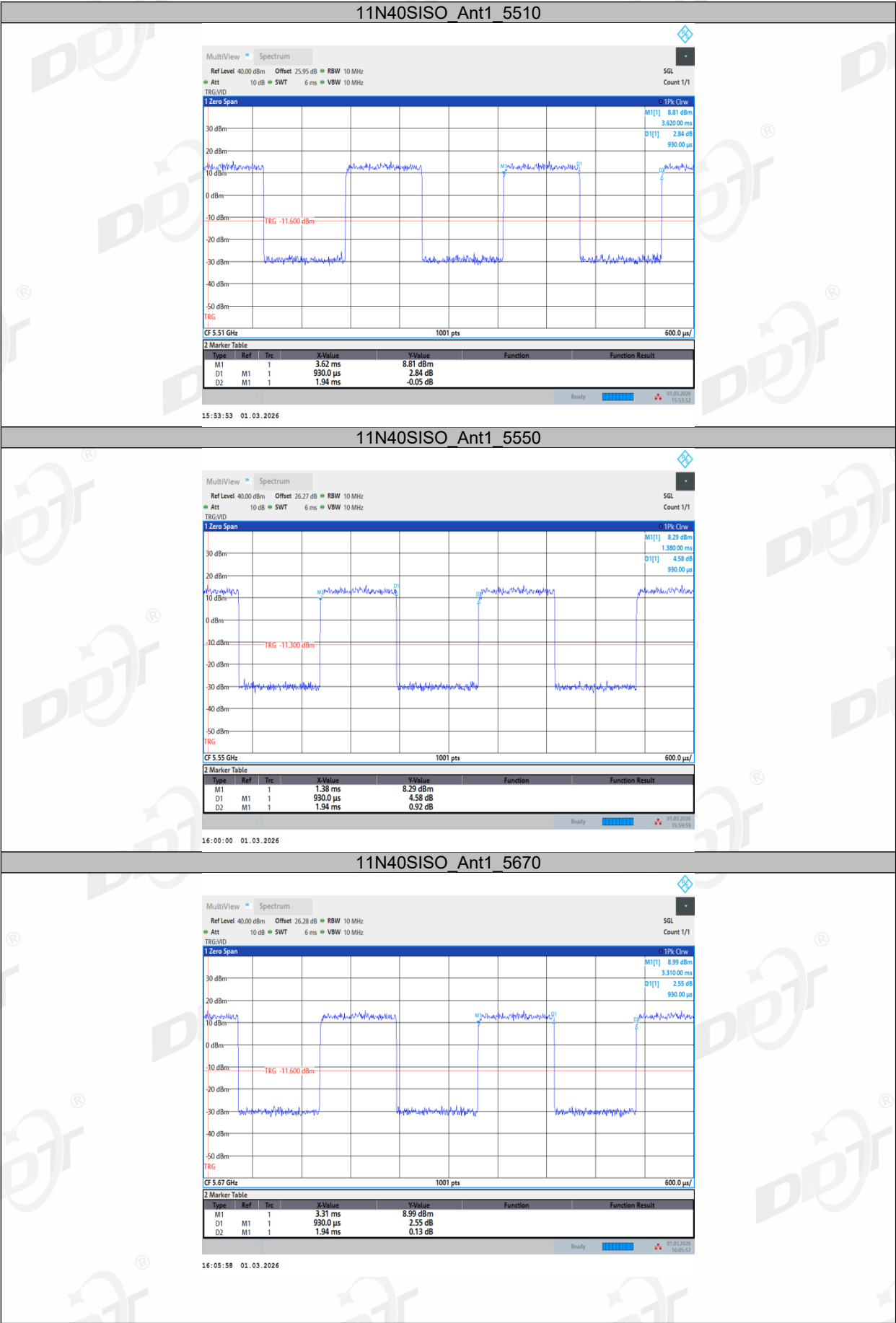
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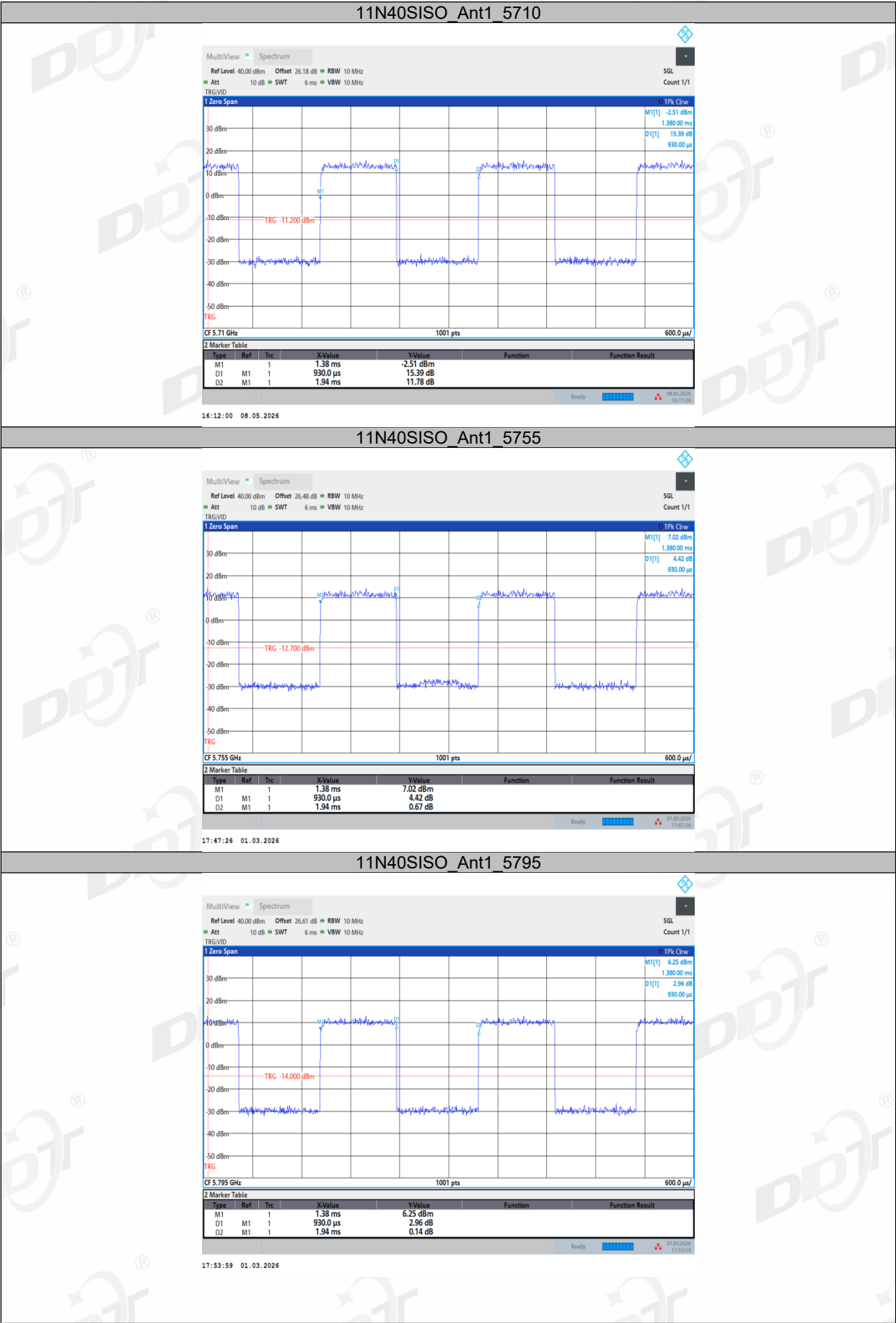








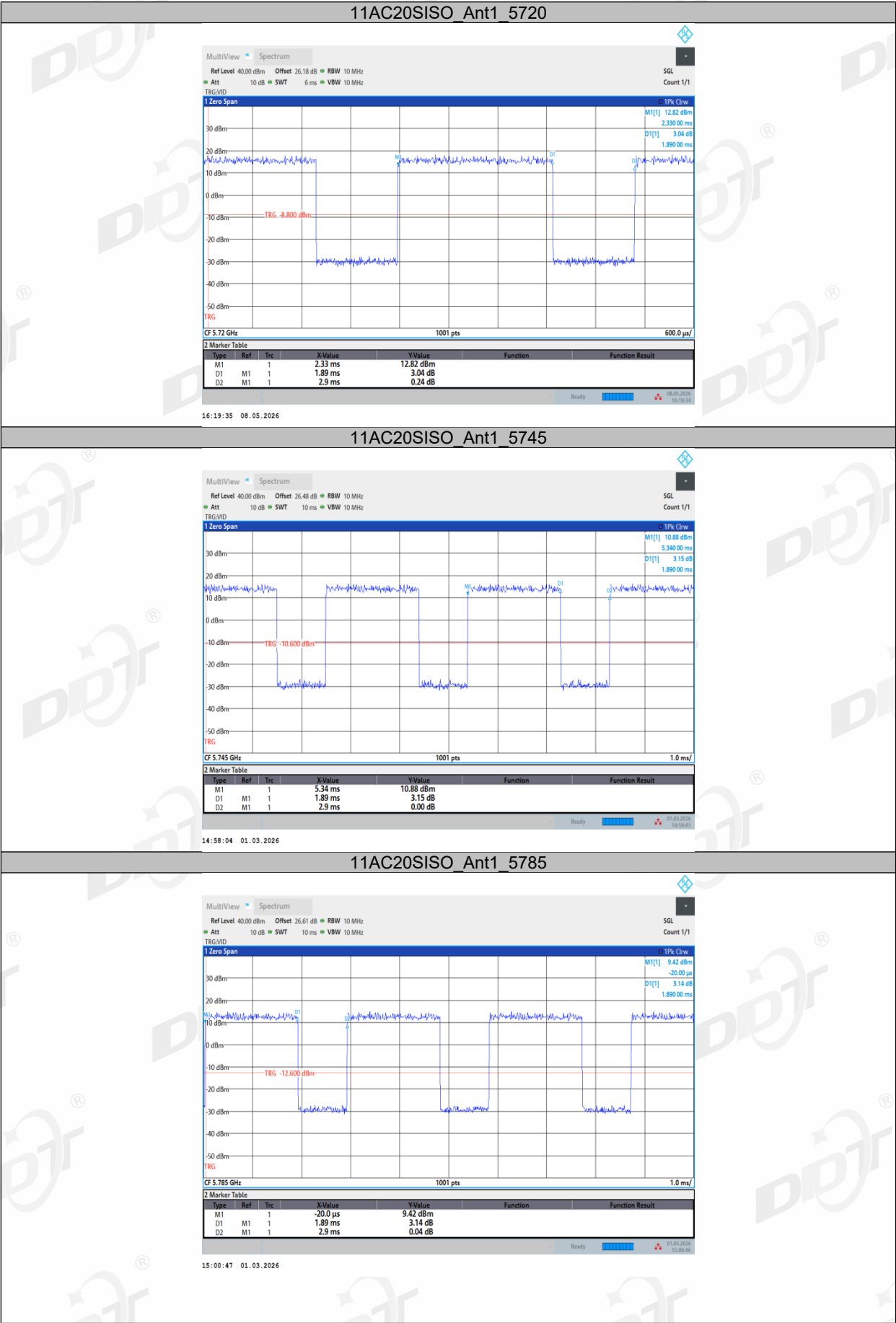




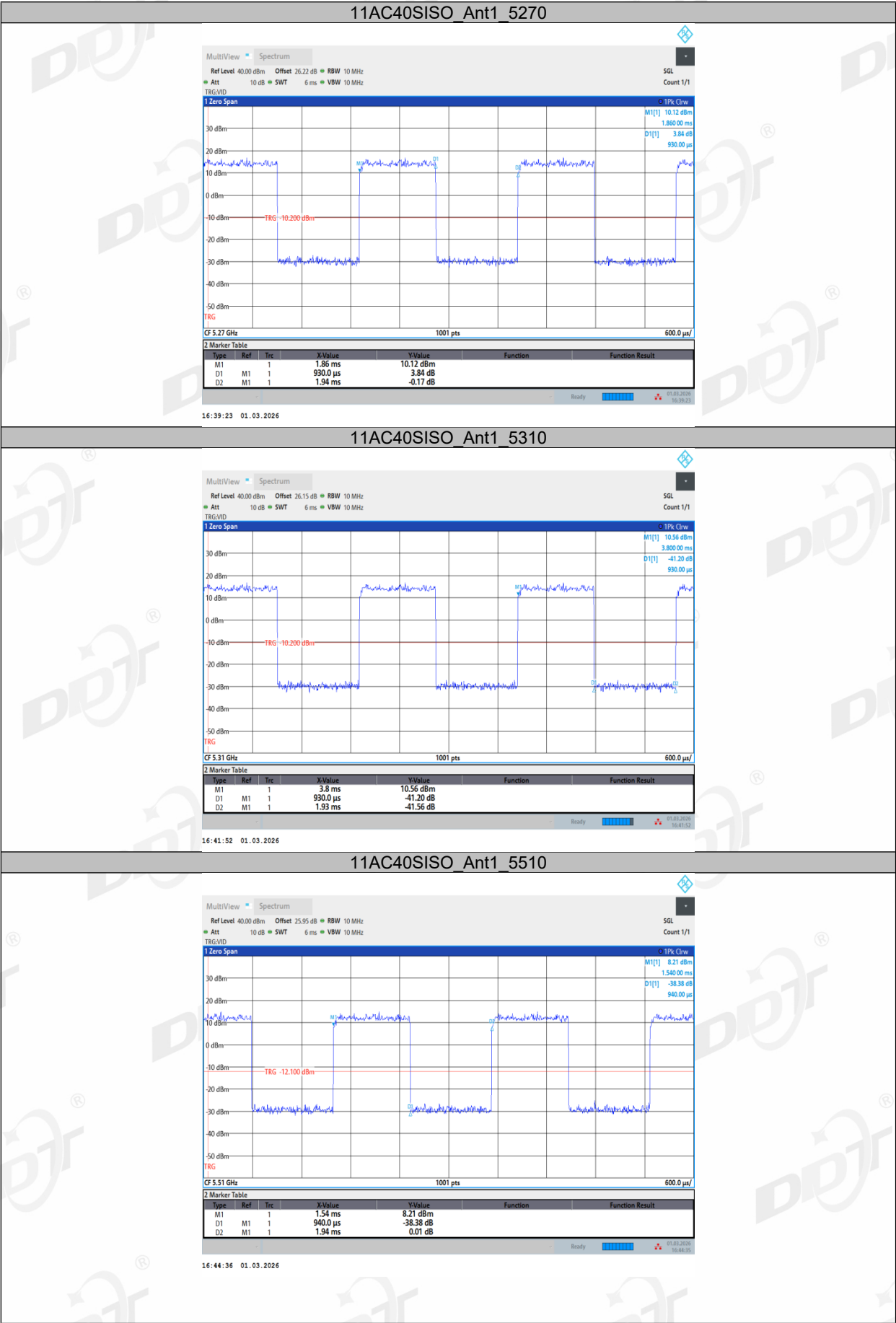








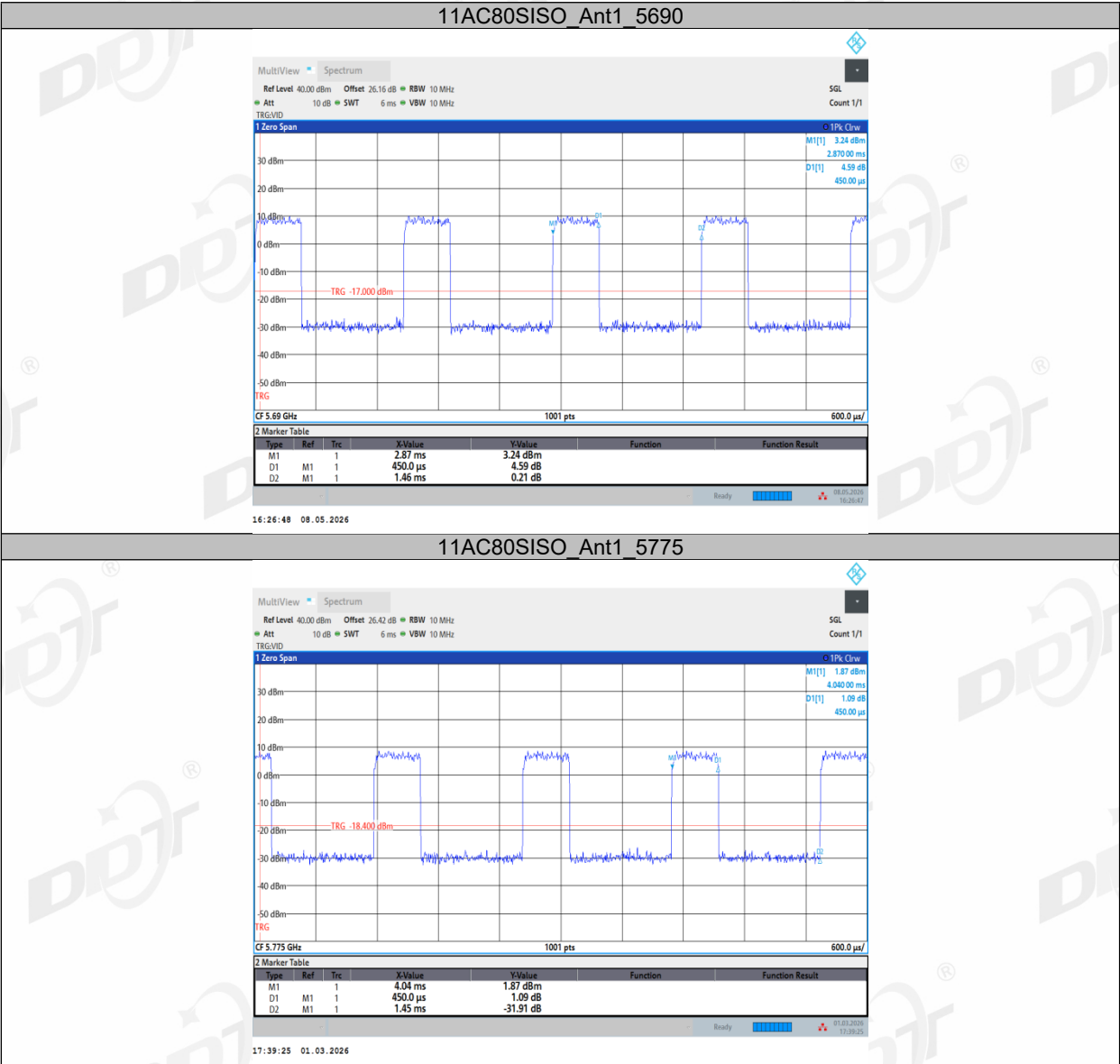






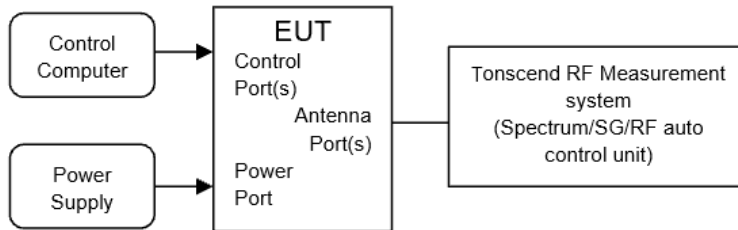






8. Maximum Output Power

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 $10 + 10 \log_{10} B$	
	For FCC: 250 mW (23.98 dBm) or $11 + 10 \log_{10} B$	5250-5350
	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 ISM: 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:	24.6-27.5°C,36.9-48.2%RH	Test Date:	2026.03.01-2026.05.08
Test Power Supply:	DC 12V	Sample Number:	S25120138-006

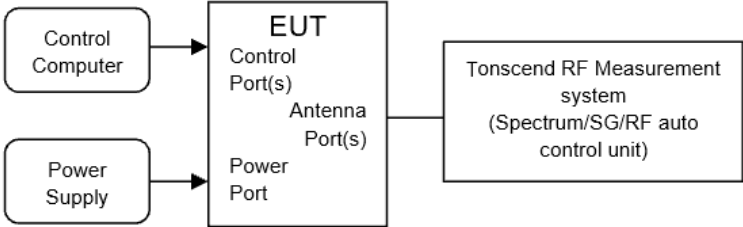
Test Mode	Ant.	Freq [MHz]	Duty Cycle [%]	DC Factor [dB]	Result [dBm]	FCC Limit [dBm]	Verdict
11A	Ant1	5180	66.67	1.76	14.11	≤23.98	PASS
		5200	66.67	1.76	14.27	≤23.98	PASS
		5240	67.00	1.74	14.88	≤23.98	PASS
		5260	66.67	1.76	15.39	≤23.98	PASS
		5280	67.00	1.74	15.56	≤23.98	PASS
		5320	66.67	1.76	15.48	≤23.98	PASS
		5500	67.00	1.74	13.56	≤23.98	PASS
		5580	66.67	1.76	14.20	≤23.98	PASS
		5700	66.78	1.75	12.42	≤23.98	PASS
		5720	66.67	1.76	12.83	≤23.98	PASS
		5745	67.00	1.74	10.69	≤30.00	PASS
		5785	66.67	1.76	9.42	≤30.00	PASS
		5825	66.67	1.76	9.45	≤30.00	PASS
11N20SISO	Ant1	5180	65.17	1.86	14.09	≤23.98	PASS
		5200	65.17	1.86	14.23	≤23.98	PASS
		5240	65.17	1.86	14.89	≤23.98	PASS
		5260	65.17	1.86	15.34	≤23.98	PASS
		5280	65.05	1.87	15.59	≤23.98	PASS
		5320	65.17	1.86	15.58	≤23.98	PASS
		5500	65.17	1.86	13.66	≤23.98	PASS
		5580	65.17	1.86	14.30	≤23.98	PASS
		5700	65.17	1.86	12.50	≤23.98	PASS
		5720	65.17	1.86	12.54	≤23.98	PASS
		5745	65.17	1.86	10.73	≤30.00	PASS

		5785	65.17	1.86	9.44	≤30.00	PASS
		5825	100.00	0.00	7.63	≤30.00	PASS
11N40SISO	Ant1	5190	48.19	3.17	14.16	≤23.98	PASS
		5230	47.94	3.19	14.70	≤23.98	PASS
		5270	47.94	3.19	15.48	≤23.98	PASS
		5310	47.94	3.19	15.62	≤23.98	PASS
		5510	47.94	3.19	13.70	≤23.98	PASS
		5550	47.94	3.19	14.10	≤23.98	PASS
		5670	47.94	3.19	13.73	≤23.98	PASS
		5710	47.94	3.19	12.49	≤23.98	PASS
		5755	47.94	3.19	11.79	≤30.00	PASS
		5795	47.94	3.19	10.72	≤30.00	PASS
11AC20SISO	Ant1	5180	65.17	1.86	14.12	≤23.98	PASS
		5200	65.40	1.84	14.26	≤23.98	PASS
		5240	65.17	1.86	14.89	≤23.98	PASS
		5260	65.17	1.86	15.35	≤23.98	PASS
		5280	65.17	1.86	15.60	≤23.98	PASS
		5320	65.40	1.84	15.59	≤23.98	PASS
		5500	65.17	1.86	13.68	≤23.98	PASS
		5580	65.17	1.86	14.31	≤23.98	PASS
		5700	65.40	1.84	12.46	≤23.98	PASS
		5720	65.17	1.86	12.23	≤23.98	PASS
		5745	65.17	1.86	10.74	≤30.00	PASS
		5785	65.17	1.86	9.49	≤30.00	PASS
		5825	65.17	1.86	9.47	≤30.00	PASS
11AC40SISO	Ant1	5190	47.94	3.19	13.63	≤23.98	PASS
		5230	48.21	3.17	14.13	≤23.98	PASS
		5270	47.94	3.19	14.97	≤23.98	PASS
		5310	48.19	3.17	15.12	≤23.98	PASS
		5510	48.45	3.15	13.22	≤23.98	PASS

		5550	47.94	3.19	13.58	≤23.98	PASS
		5670	47.94	3.19	13.15	≤23.98	PASS
		5710	47.94	3.19	11.69	≤23.98	PASS
		5755	47.94	3.19	11.83	≤30.00	PASS
		5795	47.94	3.19	10.72	≤30.00	PASS
11AC80SISO	Ant1	5210	30.82	5.11	14.56	≤23.98	PASS
		5290	31.03	5.08	15.60	≤23.98	PASS
		5530	31.03	5.08	13.93	≤23.98	PASS
		5610	30.82	5.11	14.55	≤23.98	PASS
		5690	30.82	5.11	11.95	≤23.98	PASS
		5775	31.03	5.08	11.74	≤30.00	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	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.		

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:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

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

9.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.6-27.5°C,36.9-48.2%RH	Test Date:	2026.03.01-2026.05.08
Test Power Supply:	DC 12V	Sample Number:	S25120138-006

Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	0.33	≤11.00	PASS
		5200	1.41	≤11.00	PASS
		5240	1.59	≤11.00	PASS
		5260	2.32	≤11.00	PASS
		5280	2.58	≤11.00	PASS
		5320	2.54	≤11.00	PASS
		5500	1.00	≤11.00	PASS
		5580	1.59	≤11.00	PASS
		5700	0.06	≤11.00	PASS
		5720_UNII-2C	1.04	≤11.00	PASS
		5720_UNII-3	-2.41	≤30.00	PASS
		5745	-4.68	≤30.00	PASS
		5785	-5.85	≤30.00	PASS
		5825	-6.03	≤30.00	PASS
11N20SISO	Ant1	5180	0.19	≤11.00	PASS
		5200	1.12	≤11.00	PASS
		5240	1.16	≤11.00	PASS
		5260	2.14	≤11.00	PASS
		5280	1.92	≤11.00	PASS
		5320	2.23	≤11.00	PASS
		5500	0.73	≤11.00	PASS
		5580	1.39	≤11.00	PASS
		5700	-0.28	≤11.00	PASS
		5720_UNII-2C	0.65	≤11.00	PASS

		5720_UNII-3	-2.82	≤30.00	PASS
		5745	-4.85	≤30.00	PASS
		5785	-6.22	≤30.00	PASS
		5825	-8.11	≤30.00	PASS
11N40SISO	Ant1	5190	-2.52	≤11.00	PASS
		5230	-2.17	≤11.00	PASS
		5270	-1.08	≤11.00	PASS
		5310	-0.90	≤11.00	PASS
		5510	-2.60	≤11.00	PASS
		5550	-2.51	≤11.00	PASS
		5670	-2.74	≤11.00	PASS
		5710_UNII-2C	-2.42	≤11.00	PASS
		5710_UNII-3	-6.09	≤30.00	PASS
		5755	-6.77	≤30.00	PASS
		5795	-8.49	≤30.00	PASS
11AC20SISO	Ant1	5180	0.13	≤11.00	PASS
		5200	1.16	≤11.00	PASS
		5240	1.30	≤11.00	PASS
		5260	2.09	≤11.00	PASS
		5280	1.81	≤11.00	PASS
		5320	2.29	≤11.00	PASS
		5500	0.42	≤11.00	PASS
		5580	1.67	≤11.00	PASS
		5700	-0.16	≤11.00	PASS
		5720_UNII-2C	0.01	≤11.00	PASS
		5720_UNII-3	-2.96	≤30.00	PASS
		5745	-4.85	≤30.00	PASS
		5785	-6.08	≤30.00	PASS
		5825	-6.12	≤30.00	PASS
11AC40SISO	Ant1	5190	-2.39	≤11.00	PASS

		5230	-2.40	≤11.00	PASS
		5270	-1.59	≤11.00	PASS
		5310	-1.63	≤11.00	PASS
		5510	-2.99	≤11.00	PASS
		5550	-2.60	≤11.00	PASS
		5670	-3.06	≤11.00	PASS
		5710_UNII-2C	-3.33	≤11.00	PASS
		5710_UNII-3	-7.13	≤30.00	PASS
		5755	-6.48	≤30.00	PASS
		5795	-8.24	≤30.00	PASS
11AC80SISO	Ant1	5210	-4.33	≤11.00	PASS
		5290	-2.87	≤11.00	PASS
		5530	-4.09	≤11.00	PASS
		5610	-2.94	≤11.00	PASS
		5690_UNII-2C	-4.77	≤11.00	PASS
		5690_UNII-3	-9.22	≤30.00	PASS
		5775	-7.98	≤30.00	PASS

Note:

- 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
- 2.The Duty Cycle Factor is compensated in the graph.

9.5. Test graphs

