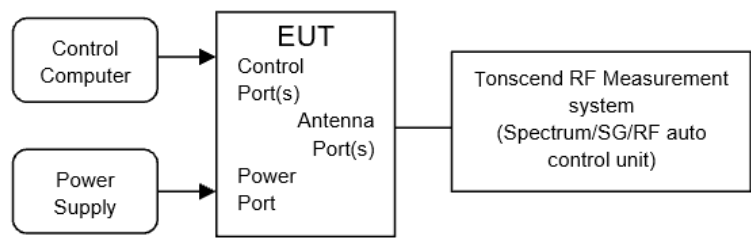


5. 6dB Bandwidth

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

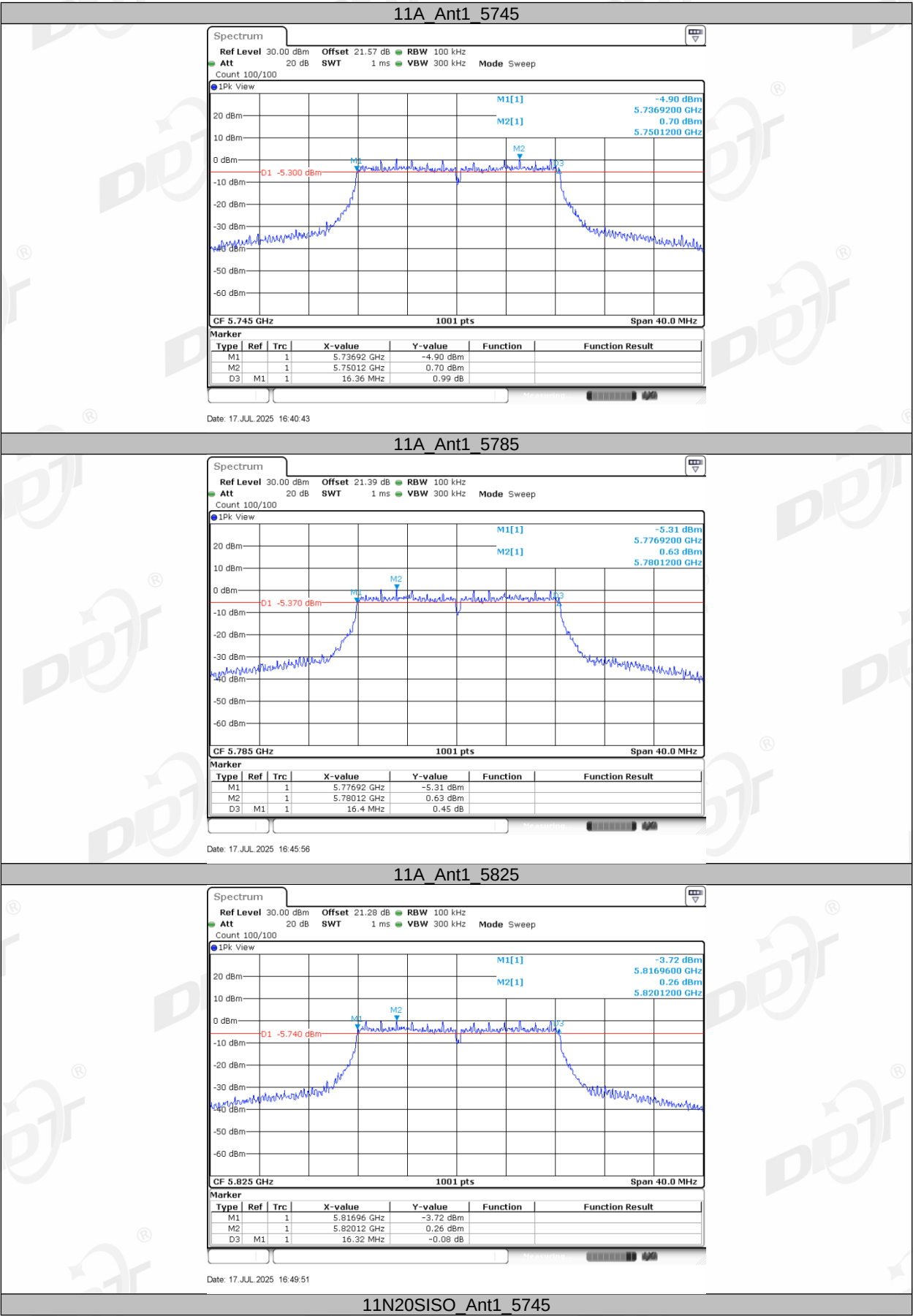
Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

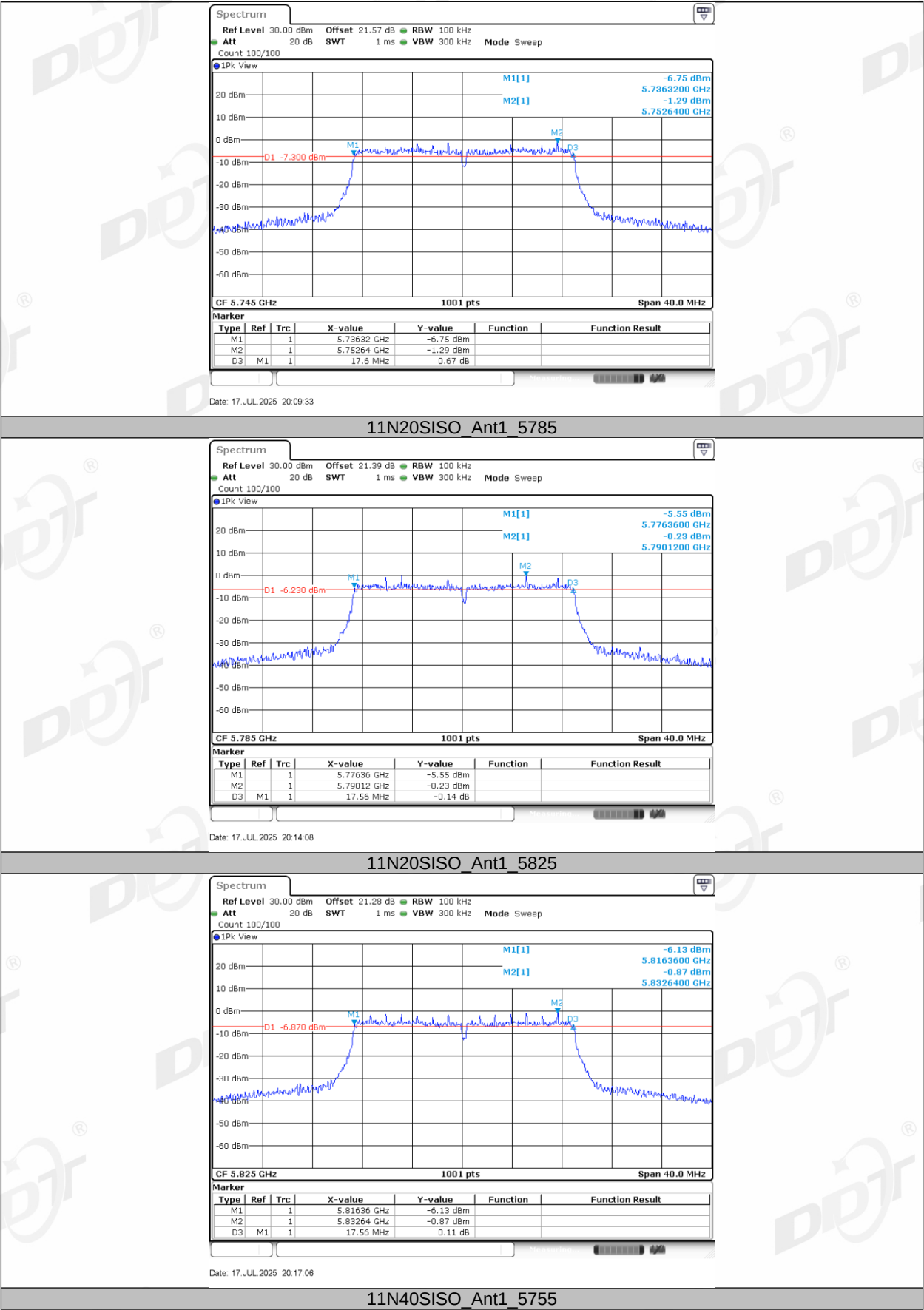
5.4. Test result B4

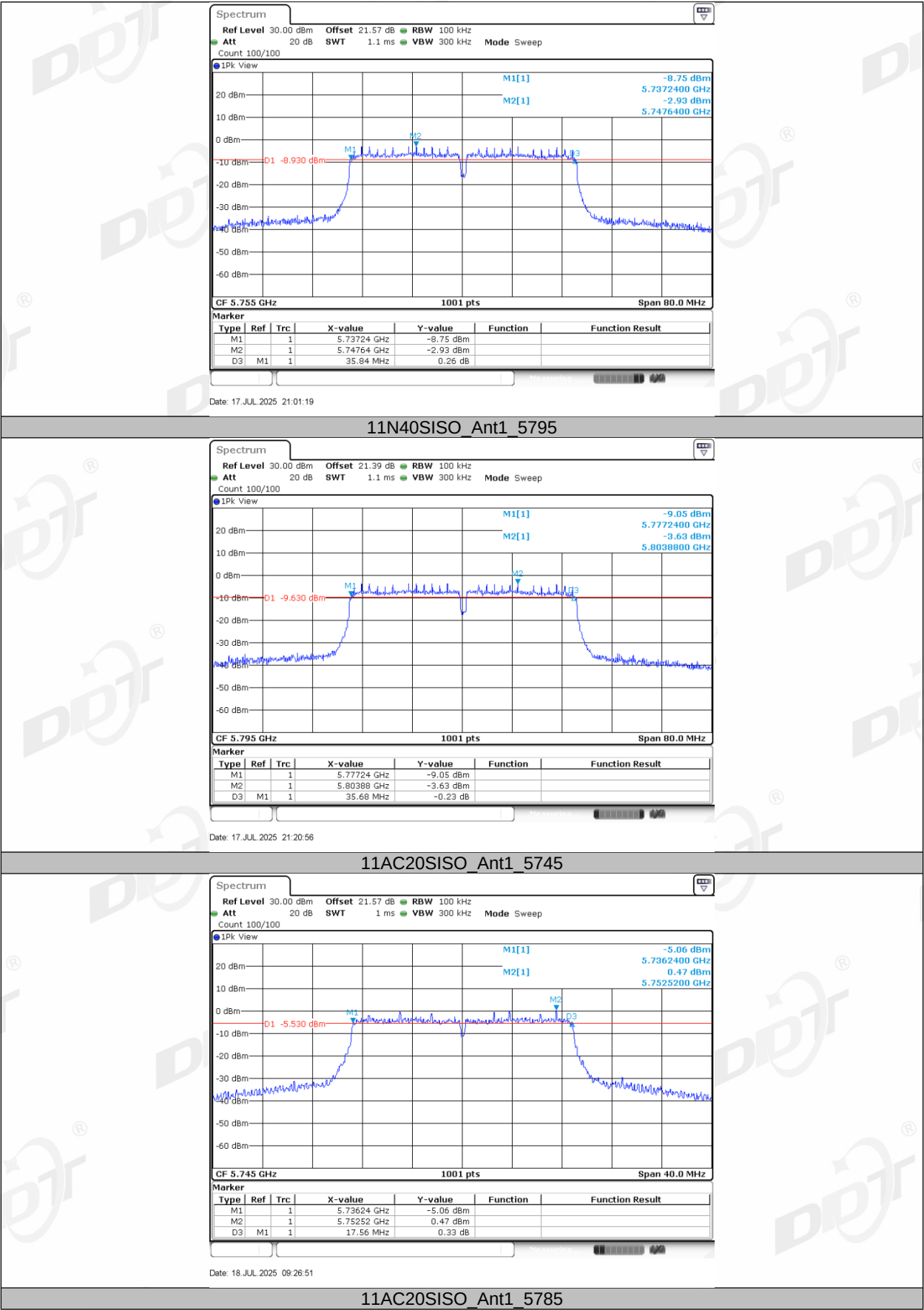
Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	25.2-26.8℃,34.7-41.5%RH	Test Date:	2025.07.17-2025.07.23
Test Power Supply:	AC 120V	Sample Number:	S25061119-001

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.92	5753.28	0.5	PASS
		5785	16.40	5776.92	5793.32	0.5	PASS
		5825	16.32	5816.96	5833.28	0.5	PASS
11N20SISO	Ant1	5745	17.60	5736.32	5753.92	0.5	PASS
		5785	17.56	5776.36	5793.92	0.5	PASS
		5825	17.56	5816.36	5833.92	0.5	PASS
11N40SISO	Ant1	5755	35.84	5737.24	5773.08	0.5	PASS
		5795	35.68	5777.24	5812.92	0.5	PASS
11AC20SISO	Ant1	5745	17.56	5736.24	5753.80	0.5	PASS
		5785	17.56	5776.28	5793.84	0.5	PASS
		5825	17.56	5816.32	5833.88	0.5	PASS
11AC40SISO	Ant1	5755	35.92	5737.16	5773.08	0.5	PASS
		5795	35.84	5777.16	5813.00	0.5	PASS
11AX20SISO	Ant1	5745	18.16	5736.12	5754.28	0.5	PASS
		5785	18.40	5775.96	5794.36	0.5	PASS
		5825	18.40	5816.00	5834.40	0.5	PASS
11AX40SISO	Ant1	5755	36.88	5736.68	5773.56	0.5	PASS
		5795	36.88	5776.60	5813.48	0.5	PASS

5.5. Test graphs B4







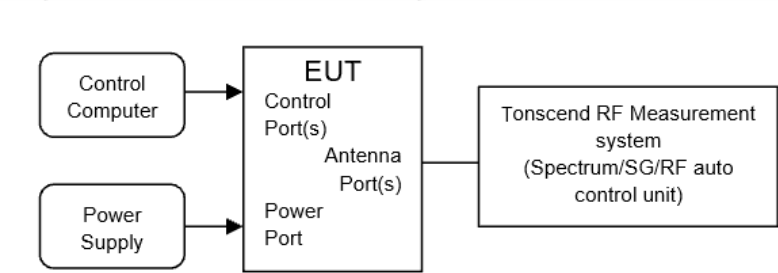






6. 99% Bandwidth

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

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

6.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	25.2-26.8℃,34.7-41.5%RH	Test Date:	2025.07.17-2025.07.23
Test Power Supply:	AC 120V	Sample Number:	S25061119-001

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.383	5171.3686	5188.7512	---	---
		5200	17.383	5191.3686	5208.7512	---	---
		5240	17.423	5231.2887	5248.7113	---	---
		5260	17.502	5251.2887	5268.7912	---	---
		5280	17.463	5271.2887	5288.7512	---	---
		5320	17.463	5311.3686	5328.8312	---	---
		5500	17.383	5491.3686	5508.7512	---	---
		5580	17.383	5571.3686	5588.7512	---	---
		5700	17.343	5691.4486	5708.7912	---	---
		5720	17.383	5711.4086	5728.7912	---	---
		5720_UNII-2C	13.591	5711.4086	5725	---	---
		5720_UNII-3	3.791	5725	5728.7912	---	---
		5745	17.343	5736.4486	5753.7912	---	---
		5785	17.343	5776.4486	5793.7912	---	---
		5825	17.383	5816.4086	5833.7912	---	---
11N20SISO	Ant1	5180	18.182	5170.9291	5189.1109	---	---
		5200	18.222	5190.9690	5209.1908	---	---
		5240	18.222	5230.8891	5249.1109	---	---
		5260	18.222	5250.9690	5269.1908	---	---
		5280	18.222	5270.9690	5289.1908	---	---
		5320	18.262	5310.9690	5329.2308	---	---
		5500	18.182	5491.0090	5509.1908	---	---
		5580	18.142	5571.0090	5589.1508	---	---
		5700	18.142	5691.0490	5709.1908	---	---
		5720	18.182	5711.0090	5729.1908	---	---
		5720_UNII-2C	13.991	5711.0090	5725	---	---
		5720_UNII-3	4.191	5725	5729.1908	---	---
		5745	18.182	5736.0490	5754.2308	---	---
		5785	18.182	5776.0490	5794.2308	---	---
		5825	18.142	5816.0490	5834.1908	---	---
11N40SISO	Ant1	5190	36.523	5171.8581	5208.3816	---	---
		5230	36.683	5211.7782	5248.4615	---	---
		5270	36.603	5251.7782	5288.3816	---	---
		5310	36.683	5291.7782	5328.4615	---	---
		5510	36.603	5491.7782	5528.3816	---	---
		5550	36.683	5531.6983	5568.3816	---	---
		5670	36.683	5651.7782	5688.4615	---	---
		5710	36.603	5691.8581	5728.4615	---	---
		5710_UNII-2C	33.142	5691.8581	5725	---	---
		5710_UNII-3	3.462	5725	5728.4615	---	---
		5755	36.603	5736.7782	5773.3816	---	---
		5795	36.603	5776.7782	5813.3816	---	---
11AC20SISO	Ant1	5180	18.182	5171.0490	5189.2308	---	---
		5200	18.182	5191.0490	5209.2308	---	---
		5240	18.182	5231.0490	5249.2308	---	---
		5260	18.222	5251.0490	5269.2707	---	---
		5280	18.182	5271.0090	5289.1908	---	---
		5320	18.222	5311.0490	5329.2707	---	---
		5500	18.142	5491.0490	5509.1908	---	---
		5580	18.182	5571.0490	5589.2308	---	---
		5700	18.182	5690.9291	5709.1109	---	---
		5720	18.182	5710.9291	5729.1109	---	---
		5720_UNII-2C	14.071	5710.9291	5725	---	---
		5720_UNII-3	4.111	5725	5729.1109	---	---
		5745	18.182	5735.9291	5754.1109	---	---

11AC40SISO	Ant1	5785	18.222	5775.9291	5794.1508	---	---
		5825	18.222	5815.9690	5834.1908	---	---
		5190	36.603	5171.6184	5208.2218	---	---
		5230	36.603	5211.6983	5248.3017	---	---
		5270	36.523	5251.7782	5288.3017	---	---
		5310	36.603	5291.7782	5328.3816	---	---
		5510	36.603	5491.6983	5528.3017	---	---
		5550	36.683	5531.6983	5568.3816	---	---
		5670	36.603	5651.7782	5688.3816	---	---
		5710	36.603	5691.7782	5728.3816	---	---
		5710 UNII-2C	33.222	5691.7782	5725	---	---
		5710 UNII-3	3.382	5725	5728.3816	---	---
		5755	36.523	5736.7782	5773.3017	---	---
		5795	36.603	5776.7782	5813.3816	---	---
11AX20SISO	Ant1	5180	18.981	5170.6094	5189.5904	---	---
		5200	18.981	5190.6094	5209.5904	---	---
		5240	18.941	5230.6494	5249.5904	---	---
		5260	18.941	5250.6494	5269.5904	---	---
		5280	18.941	5270.6494	5289.5904	---	---
		5320	18.981	5310.6494	5329.6304	---	---
		5500	18.981	5490.6094	5509.5904	---	---
		5580	18.941	5570.6094	5589.5504	---	---
		5700	18.901	5690.6893	5709.5904	---	---
		5720	18.941	5710.6494	5729.5904	---	---
		5720 UNII-2C	14.351	5710.6494	5725	---	---
		5720 UNII-3	4.59	5725	5729.5904	---	---
		5745	18.941	5735.6494	5754.5904	---	---
		5785	18.981	5775.6494	5794.6304	---	---
		5825	18.941	5815.6494	5834.5904	---	---
11AX40SISO	Ant1	5190	37.722	5171.1389	5208.8611	---	---
		5230	37.722	5211.2188	5248.9411	---	---
		5270	37.722	5251.2188	5288.9411	---	---
		5310	37.722	5291.2188	5328.9411	---	---
		5510	37.722	5491.2188	5528.9411	---	---
		5550	37.722	5531.2188	5568.9411	---	---
		5670	37.722	5651.2188	5688.9411	---	---
		5710	37.722	5691.2188	5728.9411	---	---
		5710 UNII-2C	33.781	5691.2188	5725	---	---
		5710 UNII-3	3.941	5725	5728.9411	---	---
		5755	37.722	5736.2188	5773.9411	---	---
		5795	37.722	5776.2188	5813.9411	---	---

6.5. Test graphs

