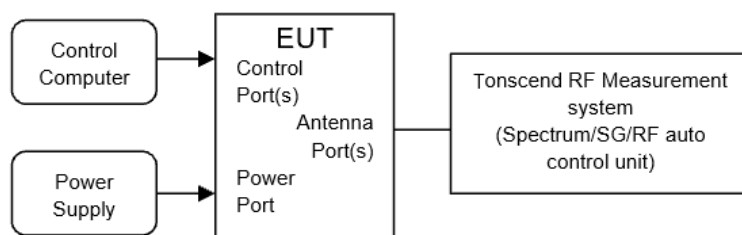


7. Duty Cycle

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:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.6-25.3℃,30.5-51.2%RH	Test Date:	2025.11.17-2025.12.16
Test Power Supply:	DC 12V	Sample Number:	S25081330-001

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.40	1.45	96.55
	Ant2	5180	1.40	1.46	95.89
	Ant3	5180	1.39	1.45	95.86
	Ant1	5200	1.39	1.44	96.53
	Ant2	5200	1.40	1.46	95.89
	Ant3	5200	1.39	1.45	95.86
	Ant1	5240	1.39	1.45	95.86
	Ant2	5240	1.40	1.46	95.89
	Ant3	5240	1.39	1.45	95.86
	Ant1	5260	1.39	1.45	95.86
	Ant2	5260	1.39	1.45	95.86
	Ant3	5260	1.39	1.45	95.86
	Ant1	5280	1.39	1.46	95.21
	Ant2	5280	1.39	1.45	95.86
	Ant3	5280	1.40	1.46	95.89
	Ant1	5320	1.40	1.46	95.89
	Ant2	5320	1.40	1.46	95.89
	Ant3	5320	1.40	1.46	95.89
	Ant1	5500	1.39	1.46	95.21
	Ant2	5500	1.39	1.45	95.86
	Ant3	5500	1.39	1.45	95.86
	Ant1	5580	1.40	1.46	95.89
	Ant2	5580	1.39	1.46	95.21
	Ant3	5580	1.39	1.45	95.86
	Ant1	5700	1.39	1.44	96.53
	Ant2	5700	1.40	1.46	95.89
	Ant3	5700	1.39	1.45	95.86
	Ant1	5720	1.39	1.45	95.86
	Ant2	5720	1.39	1.45	95.86
	Ant3	5720	1.39	1.45	95.86
	Ant1	5745	1.39	1.45	95.86
	Ant2	5745	1.40	1.46	95.89
	Ant3	5745	1.40	1.46	95.89
	Ant1	5785	1.39	1.45	95.86
	Ant2	5785	1.39	1.45	95.86
	Ant3	5785	1.39	1.45	95.86
	Ant1	5825	1.40	1.45	96.55
	Ant2	5825	1.39	1.45	95.86
	Ant3	5825	1.40	1.46	95.89
11N20MIMO	Ant1	5180	0.47	0.53	88.68
	Ant2	5180	0.47	0.54	87.04
	Ant3	5180	0.47	0.54	87.04
	Ant1	5200	0.47	0.54	87.04
	Ant2	5200	0.47	0.53	88.68
	Ant3	5200	0.47	0.54	87.04
	Ant1	5240	0.47	0.53	88.68
	Ant2	5240	0.47	0.53	88.68
	Ant3	5240	0.47	0.54	87.04
	Ant1	5260	0.47	0.54	87.04
	Ant2	5260	0.47	0.53	88.68
	Ant3	5260	0.47	0.54	87.04
	Ant1	5280	0.47	0.53	88.68
	Ant2	5280	0.47	0.54	87.04
	Ant3	5280	0.47	0.53	88.68

	Ant1	5320	0.48	0.54	88.89
	Ant2	5320	0.48	0.54	88.89
	Ant3	5320	0.47	0.54	87.04
	Ant1	5500	0.47	0.53	88.68
	Ant2	5500	0.47	0.53	88.68
	Ant3	5500	0.47	0.54	87.04
	Ant1	5580	0.48	0.54	88.89
	Ant2	5580	0.47	0.53	88.68
	Ant3	5580	0.48	0.54	88.89
	Ant1	5700	0.47	0.54	87.04
	Ant2	5700	0.47	0.53	88.68
	Ant3	5700	0.47	0.54	87.04
	Ant1	5720	0.47	0.53	88.68
	Ant2	5720	0.47	0.54	87.04
	Ant3	5720	0.47	0.53	88.68
	Ant1	5745	0.47	0.53	88.68
	Ant2	5745	0.47	0.53	88.68
	Ant3	5745	0.47	0.53	88.68
	Ant1	5785	0.47	0.54	87.04
	Ant2	5785	0.47	0.54	87.04
	Ant3	5785	0.47	0.54	87.04
	Ant1	5825	0.47	0.54	87.04
	Ant2	5825	0.47	0.53	88.68
	Ant3	5825	0.47	0.53	88.68
11N40MIMO	Ant1	5190	0.25	0.31	80.65
	Ant2	5190	0.25	0.32	78.13
	Ant3	5190	0.25	0.32	78.13
	Ant1	5230	0.25	0.31	80.65
	Ant2	5230	0.25	0.31	80.65
	Ant3	5230	0.25	0.32	78.13
	Ant1	5270	0.25	0.31	80.65
	Ant2	5270	0.25	0.31	80.65
	Ant3	5270	0.25	0.31	80.65
	Ant1	5310	0.25	0.31	80.65
	Ant2	5310	0.25	0.32	78.13
	Ant3	5310	0.25	0.31	80.65
	Ant1	5510	0.25	0.32	78.13
	Ant2	5510	0.25	0.31	80.65
	Ant3	5510	0.26	0.32	81.25
	Ant1	5550	0.25	0.32	78.13
	Ant2	5550	0.25	0.32	78.13
	Ant3	5550	0.25	0.32	78.13
	Ant1	5670	0.25	0.32	78.13
	Ant2	5670	0.25	0.32	78.13
	Ant3	5670	0.25	0.31	80.65
	Ant1	5710	0.25	0.31	80.65
	Ant2	5710	0.26	0.32	81.25
	Ant3	5710	0.25	0.31	80.65
	Ant1	5755	0.25	0.31	80.65
	Ant2	5755	0.25	0.31	80.65
	Ant3	5755	0.25	0.32	78.13
	Ant1	5795	0.25	0.32	78.13
	Ant2	5795	0.25	0.31	80.65
	Ant3	5795	0.25	0.32	78.13
11AC20MIMO	Ant1	5180	1.31	1.37	95.62
	Ant2	5180	1.31	1.37	95.62
	Ant3	5180	1.31	1.38	94.93
	Ant1	5200	1.31	1.37	95.62
	Ant2	5200	1.32	1.37	96.35
	Ant3	5200	1.31	1.36	96.32
	Ant1	5240	1.32	1.38	95.65
	Ant2	5240	1.31	1.37	95.62
	Ant3	5240	1.32	1.38	95.65
	Ant1	5260	1.31	1.37	95.62

	Ant2	5260	1.31	1.37	95.62
	Ant3	5260	1.31	1.37	95.62
	Ant1	5280	1.32	1.38	95.65
	Ant2	5280	1.31	1.37	95.62
	Ant3	5280	1.32	1.38	95.65
	Ant1	5320	1.32	1.37	96.35
	Ant2	5320	1.32	1.38	95.65
	Ant3	5320	1.32	1.38	95.65
	Ant1	5500	1.31	1.38	94.93
	Ant2	5500	1.31	1.38	94.93
	Ant3	5500	1.32	1.38	95.65
	Ant1	5580	1.31	1.37	95.62
	Ant2	5580	1.32	1.38	95.65
	Ant3	5580	1.32	1.37	96.35
	Ant1	5700	1.32	1.38	95.65
	Ant2	5700	1.32	1.37	96.35
	Ant3	5700	1.31	1.37	95.62
	Ant1	5720	1.31	1.37	95.62
	Ant2	5720	1.31	1.37	95.62
	Ant3	5720	1.31	1.37	95.62
	Ant1	5745	1.32	1.38	95.65
	Ant2	5745	1.31	1.36	96.32
	Ant3	5745	1.31	1.38	94.93
	Ant1	5785	1.32	1.37	96.35
	Ant2	5785	1.31	1.38	94.93
	Ant3	5785	1.31	1.37	95.62
	Ant1	5825	1.31	1.37	95.62
	Ant2	5825	1.32	1.38	95.65
	Ant3	5825	1.32	1.38	95.65
11AC40MIMO	Ant1	5190	0.65	0.71	91.55
	Ant2	5190	0.65	0.71	91.55
	Ant3	5190	0.65	0.71	91.55
	Ant1	5230	0.65	0.72	90.28
	Ant2	5230	0.65	0.72	90.28
	Ant3	5230	0.65	0.71	91.55
	Ant1	5270	0.65	0.72	90.28
	Ant2	5270	0.65	0.71	91.55
	Ant3	5270	0.26	0.32	81.25
	Ant1	5310	0.25	0.31	80.65
	Ant2	5310	0.26	0.32	81.25
	Ant3	5310	0.26	0.32	81.25
	Ant1	5510	0.25	0.32	78.13
	Ant2	5510	0.25	0.32	78.13
	Ant3	5510	0.26	0.32	81.25
	Ant1	5550	0.25	0.32	78.13
	Ant2	5550	0.26	0.32	81.25
	Ant3	5550	0.26	0.32	81.25
	Ant1	5670	0.26	0.32	81.25
	Ant2	5670	0.25	0.32	78.13
	Ant3	5670	0.25	0.32	78.13
	Ant1	5710	0.26	0.32	81.25
	Ant2	5710	0.25	0.32	78.13
	Ant3	5710	0.25	0.32	78.13
	Ant1	5755	0.26	0.32	81.25
	Ant2	5755	0.25	0.32	78.13
	Ant3	5755	0.26	0.32	81.25
	Ant1	5795	0.26	0.32	81.25
	Ant2	5795	0.26	0.32	81.25
	Ant3	5795	0.26	0.32	81.25
11AC80MIMO	Ant1	5210	0.15	0.21	71.43
	Ant2	5210	0.14	0.21	66.67
	Ant3	5210	0.14	0.21	66.67
	Ant1	5290	0.14	0.21	66.67
	Ant2	5290	0.15	0.21	71.43

	Ant3	5290	0.15	0.21	71.43
	Ant1	5530	0.14	0.21	66.67
	Ant2	5530	0.15	0.21	71.43
	Ant3	5530	0.15	0.21	71.43
	Ant1	5610	0.15	0.21	71.43
	Ant2	5610	0.15	0.21	71.43
	Ant3	5610	0.15	0.21	71.43
	Ant1	5690	0.15	0.21	71.43
	Ant2	5690	0.14	0.21	66.67
	Ant3	5690	0.15	0.21	71.43
	Ant1	5775	0.14	0.21	66.67
	Ant2	5775	0.14	0.21	66.67
	Ant3	5775	0.15	0.21	71.43
11AC160MIMO	Ant1	5250	0.10	0.17	58.82
	Ant2	5250	0.10	0.16	62.50
	Ant3	5250	0.10	0.16	62.50
	Ant1	5570	0.10	0.17	58.82
	Ant2	5570	0.10	0.16	62.50
	Ant3	5570	0.10	0.16	62.50
11AX20MIMO	Ant1	5180	0.31	0.37	83.78
	Ant2	5180	0.31	0.37	83.78
	Ant3	5180	0.31	0.38	81.58
	Ant1	5200	0.31	0.37	83.78
	Ant2	5200	0.31	0.38	81.58
	Ant3	5200	0.31	0.38	81.58
	Ant1	5240	0.31	0.37	83.78
	Ant2	5240	0.31	0.38	81.58
	Ant3	5240	0.31	0.37	83.78
	Ant1	5260	0.31	0.38	81.58
	Ant2	5260	0.31	0.38	81.58
	Ant3	5260	0.31	0.38	81.58
	Ant1	5280	0.31	0.37	83.78
	Ant2	5280	0.31	0.37	83.78
	Ant3	5280	0.31	0.38	81.58
	Ant1	5320	0.31	0.38	81.58
	Ant2	5320	0.31	0.37	83.78
	Ant3	5320	0.31	0.38	81.58
	Ant1	5500	0.31	0.37	83.78
	Ant2	5500	0.31	0.38	81.58
	Ant3	5500	0.31	0.37	83.78
	Ant1	5580	0.31	0.37	83.78
	Ant2	5580	0.31	0.37	83.78
	Ant3	5580	0.31	0.38	81.58
	Ant1	5700	0.31	0.37	83.78
	Ant2	5700	0.31	0.37	83.78
	Ant3	5700	0.31	0.37	83.78
	Ant1	5720	0.31	0.38	81.58
	Ant2	5720	0.31	0.37	83.78
	Ant3	5720	0.31	0.37	83.78
	Ant1	5745	0.31	0.37	83.78
	Ant2	5745	0.31	0.37	83.78
	Ant3	5745	0.31	0.37	83.78
	Ant1	5785	0.31	0.37	83.78
	Ant2	5785	0.31	0.37	83.78
	Ant3	5785	0.31	0.37	83.78
	Ant1	5825	0.31	0.38	81.58
	Ant2	5825	0.31	0.37	83.78
	Ant3	5825	0.31	0.38	81.58
11AX40MIMO	Ant1	5190	0.31	0.36	86.11
	Ant2	5190	0.31	0.37	83.78
	Ant3	5190	0.31	0.36	86.11
	Ant1	5230	0.31	0.38	81.58
	Ant2	5230	0.31	0.38	81.58
	Ant3	5230	0.31	0.37	83.78

	Ant1	5270	0.31	0.38	81.58
	Ant2	5270	0.31	0.37	83.78
	Ant3	5270	0.31	0.38	81.58
	Ant1	5310	0.31	0.37	83.78
	Ant2	5310	0.31	0.37	83.78
	Ant3	5310	0.31	0.37	83.78
	Ant1	5510	0.31	0.36	86.11
	Ant2	5510	0.31	0.36	86.11
	Ant3	5510	0.31	0.37	83.78
	Ant1	5550	0.31	0.37	83.78
	Ant2	5550	0.31	0.37	83.78
	Ant3	5550	0.31	0.37	83.78
	Ant1	5670	0.31	0.38	81.58
	Ant2	5670	0.31	0.38	81.58
	Ant3	5670	0.31	0.38	81.58
	Ant1	5710	0.31	0.38	81.58
	Ant2	5710	0.31	0.38	81.58
	Ant3	5710	0.31	0.37	83.78
	Ant1	5755	0.31	0.36	86.11
	Ant2	5755	0.31	0.36	86.11
	Ant3	5755	0.31	0.37	83.78
	Ant1	5795	0.31	0.38	81.58
	Ant2	5795	0.31	0.37	83.78
	Ant3	5795	0.31	0.37	83.78
11AX80MIMO	Ant1	5210	0.41	0.48	85.42
	Ant2	5210	0.42	0.48	87.50
	Ant3	5210	0.41	0.48	85.42
	Ant1	5290	0.42	0.48	87.50
	Ant2	5290	0.42	0.48	87.50
	Ant3	5290	0.42	0.48	87.50
	Ant1	5530	0.41	0.48	85.42
	Ant2	5530	0.42	0.48	87.50
	Ant3	5530	0.41	0.48	85.42
	Ant1	5610	0.41	0.48	85.42
	Ant2	5610	0.42	0.48	87.50
	Ant3	5610	0.41	0.48	85.42
	Ant1	5690	0.41	0.48	85.42
	Ant2	5690	0.42	0.48	87.50
	Ant3	5690	0.41	0.48	85.42
	Ant1	5775	0.41	0.48	85.42
	Ant2	5775	0.41	0.48	85.42
	Ant3	5775	0.41	0.48	85.42
11AX160MIMO	Ant1	5250	0.41	0.48	85.42
	Ant2	5250	0.41	0.48	85.42
	Ant3	5250	0.41	0.47	87.23
	Ant1	5570	0.41	0.48	85.42
	Ant2	5570	0.42	0.48	87.50
	Ant3	5570	0.42	0.48	87.50
11BE20MIMO	Ant1	5180	0.43	0.50	86.00
	Ant2	5180	0.44	0.50	88.00
	Ant3	5180	0.43	0.50	86.00
	Ant1	5200	0.43	0.50	86.00
	Ant2	5200	0.43	0.50	86.00
	Ant3	5200	0.43	0.49	87.76
	Ant1	5240	0.43	0.49	87.76
	Ant2	5240	0.43	0.49	87.76
	Ant3	5240	0.43	0.49	87.76
	Ant1	5260	0.43	0.49	87.76
	Ant2	5260	0.43	0.49	87.76
	Ant3	5260	0.43	0.49	87.76
	Ant1	5280	0.43	0.49	87.76
	Ant2	5280	0.44	0.50	88.00
	Ant3	5280	0.43	0.49	87.76
	Ant1	5320	0.43	0.49	87.76

	Ant2	5320	0.43	0.48	89.58
	Ant3	5320	0.43	0.49	87.76
	Ant1	5500	0.43	0.50	86.00
	Ant2	5500	0.43	0.50	86.00
	Ant3	5500	0.43	0.50	86.00
	Ant1	5580	0.43	0.48	89.58
	Ant2	5580	0.43	0.48	89.58
	Ant3	5580	0.43	0.48	89.58
	Ant1	5700	0.43	0.49	87.76
	Ant2	5700	0.43	0.48	89.58
	Ant3	5700	0.43	0.48	89.58
	Ant1	5720	0.43	0.48	89.58
	Ant2	5720	0.43	0.48	89.58
	Ant3	5720	0.43	0.48	89.58
	Ant1	5745	0.43	0.50	86.00
	Ant2	5745	0.43	0.50	86.00
	Ant3	5745	0.43	0.49	87.76
	Ant1	5785	0.43	0.48	89.58
	Ant2	5785	0.43	0.48	89.58
	Ant3	5785	0.43	0.49	87.76
	Ant1	5825	0.43	0.50	86.00
	Ant2	5825	0.43	0.50	86.00
	Ant3	5825	0.43	0.49	87.76
11BE40MIMO	Ant1	5190	0.44	0.50	88.00
	Ant2	5190	0.44	0.50	88.00
	Ant3	5190	0.44	0.50	88.00
	Ant1	5230	0.44	0.51	86.27
	Ant2	5230	0.44	0.51	86.27
	Ant3	5230	0.44	0.51	86.27
	Ant1	5270	0.45	0.51	88.24
	Ant2	5270	0.44	0.50	88.00
	Ant3	5270	0.44	0.50	88.00
	Ant1	5310	0.44	0.50	88.00
	Ant2	5310	0.44	0.50	88.00
	Ant3	5310	0.44	0.50	88.00
	Ant1	5510	0.44	0.51	86.27
	Ant2	5510	0.44	0.50	88.00
	Ant3	5510	0.44	0.50	88.00
	Ant1	5550	0.45	0.51	88.24
	Ant2	5550	0.44	0.50	88.00
	Ant3	5550	0.45	0.51	88.24
	Ant1	5670	0.44	0.51	86.27
	Ant2	5670	0.44	0.51	86.27
	Ant3	5670	0.44	0.51	86.27
	Ant1	5710	0.44	0.50	88.00
	Ant2	5710	0.44	0.51	86.27
	Ant3	5710	0.44	0.51	86.27
	Ant1	5755	0.44	0.51	86.27
	Ant2	5755	0.44	0.50	88.00
	Ant3	5755	0.44	0.50	88.00
	Ant1	5795	0.44	0.51	86.27
	Ant2	5795	0.44	0.50	88.00
	Ant3	5795	0.44	0.51	86.27
11BE80MIMO	Ant1	5210	0.30	0.37	81.08
	Ant2	5210	0.31	0.37	83.78
	Ant3	5210	0.31	0.37	83.78
	Ant1	5290	0.31	0.37	83.78
	Ant2	5290	0.31	0.37	83.78
	Ant3	5290	0.31	0.37	83.78
	Ant1	5530	0.30	0.37	81.08
	Ant2	5530	0.30	0.37	81.08
	Ant3	5530	0.31	0.37	83.78
	Ant1	5610	0.31	0.37	83.78
	Ant2	5610	0.31	0.37	83.78

	Ant3	5610	0.31	0.37	83.78
	Ant1	5690	0.31	0.37	83.78
	Ant2	5690	0.31	0.37	83.78
	Ant3	5690	0.31	0.37	83.78
	Ant1	5775	0.31	0.37	83.78
	Ant2	5775	0.30	0.37	81.08
	Ant3	5775	0.31	0.37	83.78
11BE160MIM O	Ant1	5250	0.31	0.37	83.78
	Ant2	5250	0.31	0.37	83.78
	Ant3	5250	0.30	0.37	81.08
	Ant1	5570	0.30	0.37	81.08
	Ant2	5570	0.31	0.37	83.78
	Ant3	5570	0.31	0.37	83.78

7.5. Test graphs

