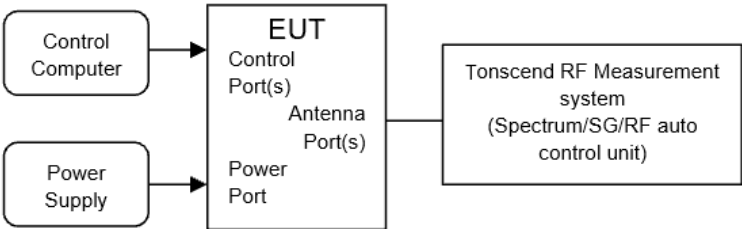


5. 6dB Bandwidth

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:	23.1-26.5°C, 42.8-47.5%RH	Test Date:	2025.07.23-2025.07.31
Test Power Supply:	DC 12V	Sample Number:	Q25070107-004

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A-CDD	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant2	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant3	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant1	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant2	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant3	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant1	5825	16.32	5816.80	5833.12	0.5	PASS
	Ant2	5825	16.32	5816.80	5833.12	0.5	PASS
	Ant3	5825	16.32	5816.80	5833.12	0.5	PASS
11N20MIMO	Ant1	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant2	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant3	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant1	5785	17.60	5776.16	5793.76	0.5	PASS
	Ant2	5785	17.56	5776.16	5793.72	0.5	PASS
	Ant3	5785	17.56	5776.16	5793.72	0.5	PASS
	Ant1	5825	17.56	5816.16	5833.72	0.5	PASS
	Ant2	5825	17.56	5816.16	5833.72	0.5	PASS
	Ant3	5825	17.56	5816.16	5833.72	0.5	PASS
11N40MIMO	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS

	Ant2	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant3	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant1	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant2	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant3	5795	35.20	5777.40	5812.60	0.5	PASS
11AC20MIM O	Ant1	5745	17.32	5736.16	5753.48	0.5	PASS
	Ant2	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant3	5745	17.56	5736.16	5753.72	0.5	PASS
	Ant1	5785	17.28	5776.40	5793.68	0.5	PASS
	Ant2	5785	17.56	5776.16	5793.72	0.5	PASS
	Ant3	5785	17.56	5776.16	5793.72	0.5	PASS
	Ant1	5825	17.56	5816.16	5833.72	0.5	PASS
	Ant2	5825	17.60	5816.16	5833.76	0.5	PASS
	Ant3	5825	17.56	5816.16	5833.72	0.5	PASS
11AC40MIM O	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant2	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant3	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant1	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant2	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant3	5795	35.20	5777.40	5812.60	0.5	PASS
11AC80MIM O	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant3	5775	75.20	5737.40	5812.60	0.5	PASS
11AX20MIMO	Ant1	5745	18.76	5735.48	5754.24	0.5	PASS

	Ant2	5745	19.08	5735.40	5754.48	0.5	PASS
	Ant3	5745	19.08	5735.40	5754.48	0.5	PASS
	Ant1	5785	18.96	5775.52	5794.48	0.5	PASS
	Ant2	5785	19.04	5775.44	5794.48	0.5	PASS
	Ant3	5785	18.96	5775.44	5794.40	0.5	PASS
	Ant1	5825	18.72	5815.56	5834.28	0.5	PASS
	Ant2	5825	19.08	5815.40	5834.48	0.5	PASS
	Ant3	5825	18.92	5815.48	5834.40	0.5	PASS
11AX40MIMO	Ant1	5755	37.36	5736.20	5773.56	0.5	PASS
	Ant2	5755	37.36	5736.20	5773.56	0.5	PASS
	Ant3	5755	36.56	5736.20	5772.76	0.5	PASS
	Ant1	5795	36.24	5776.68	5812.92	0.5	PASS
	Ant2	5795	37.36	5776.44	5813.80	0.5	PASS
	Ant3	5795	37.36	5776.44	5813.80	0.5	PASS
11AX80MIMO	Ant1	5775	76.96	5736.76	5813.72	0.5	PASS
	Ant2	5775	77.12	5736.44	5813.56	0.5	PASS
	Ant3	5775	75.84	5736.76	5812.60	0.5	PASS

5.5. Test graphs B4

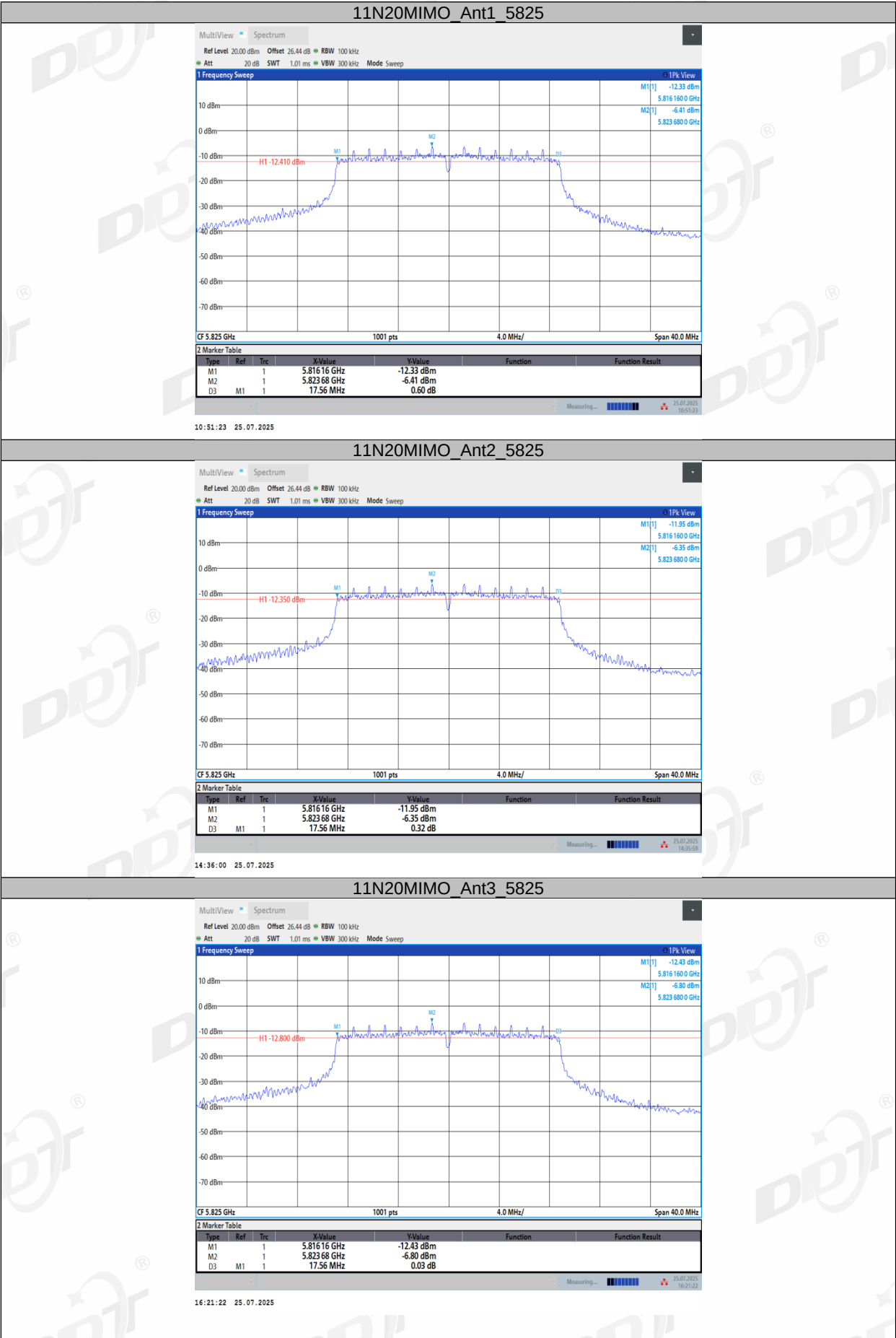






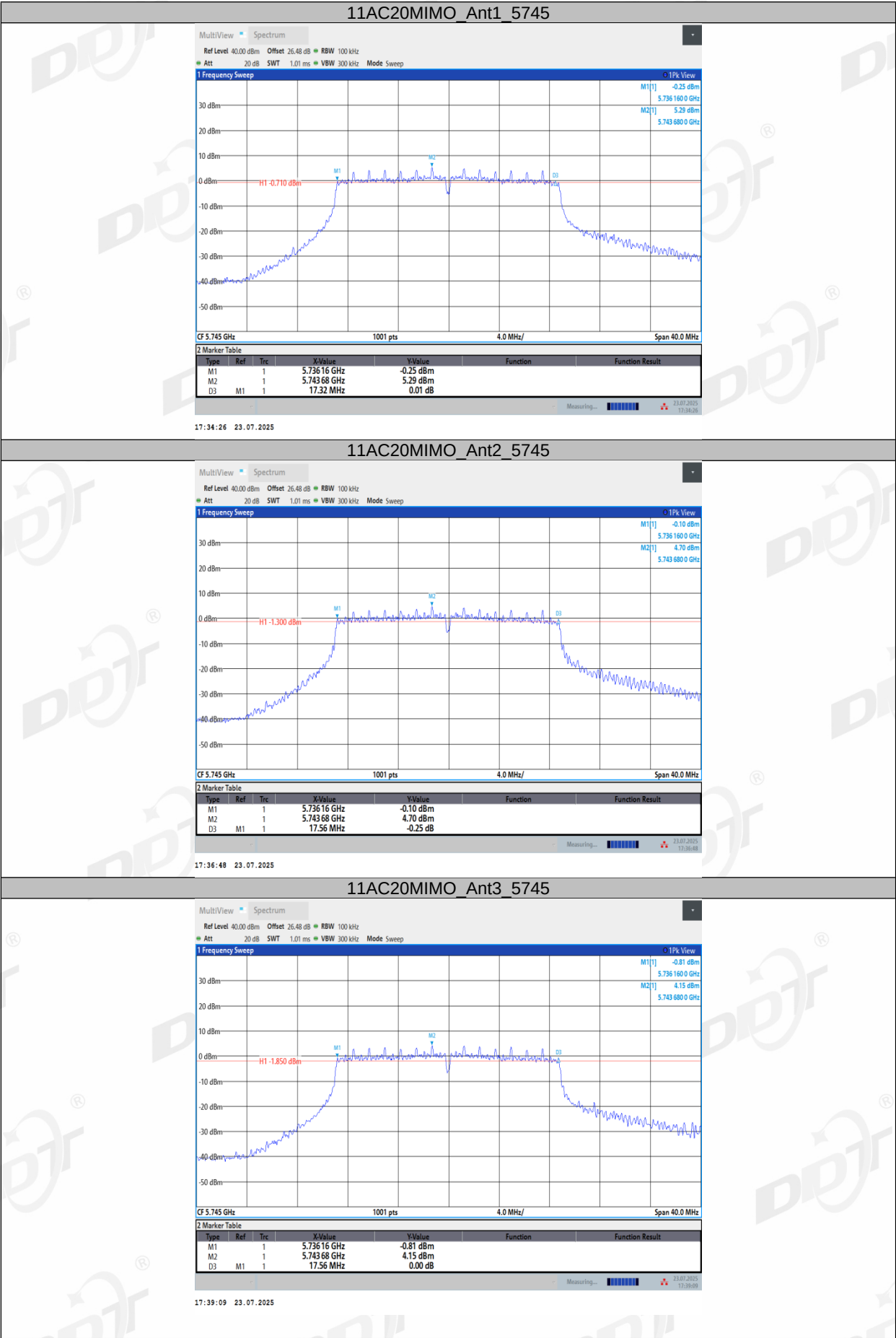


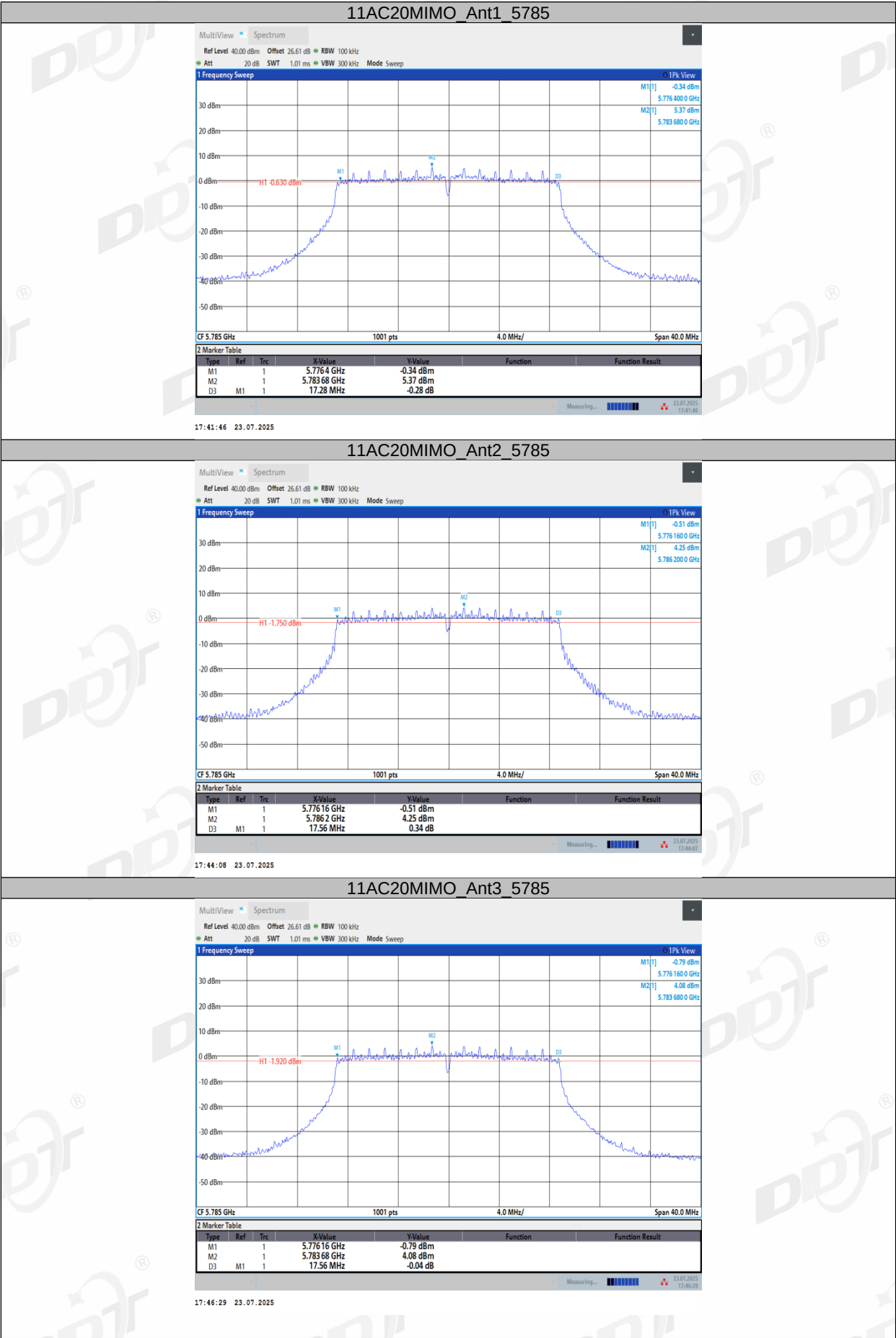




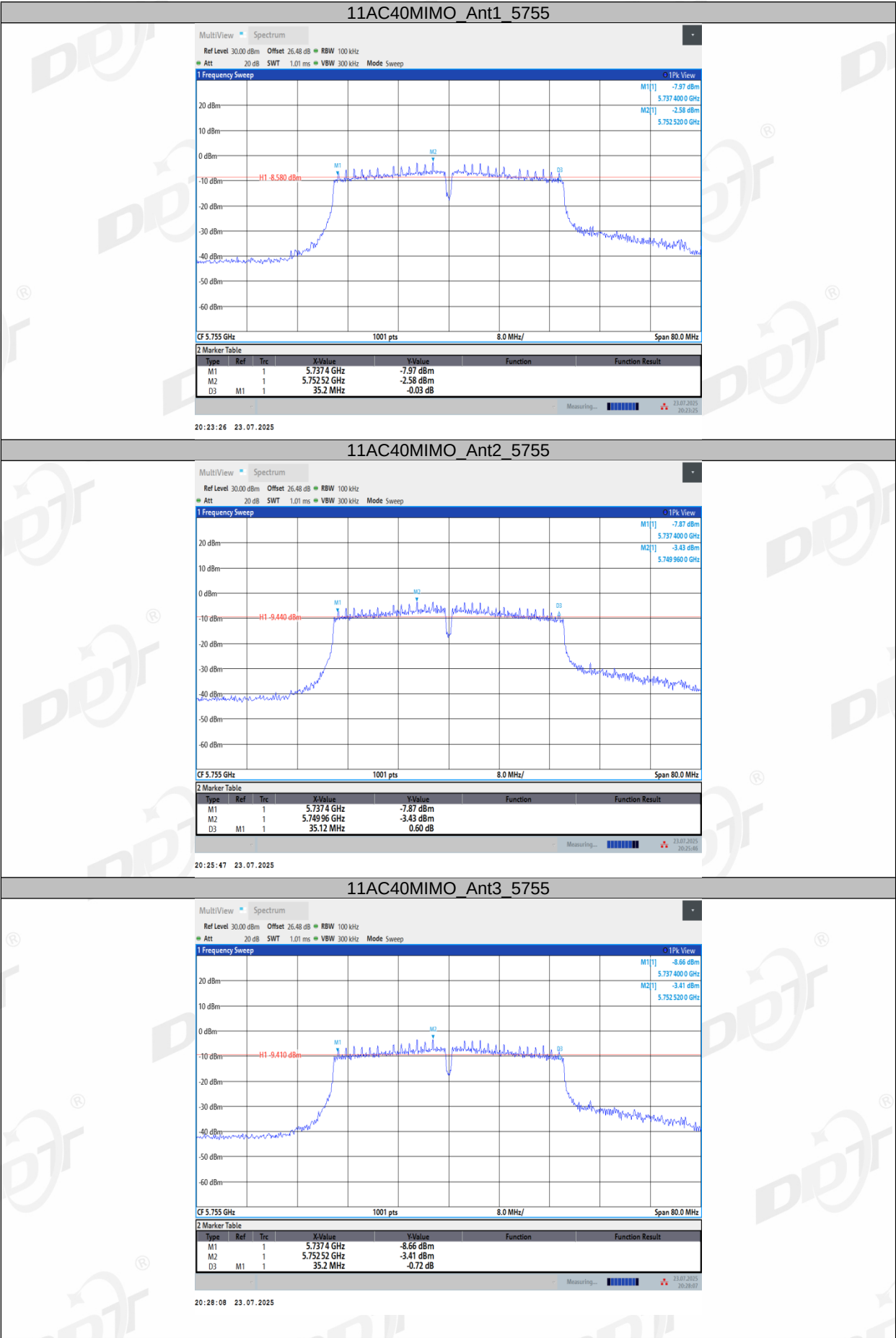


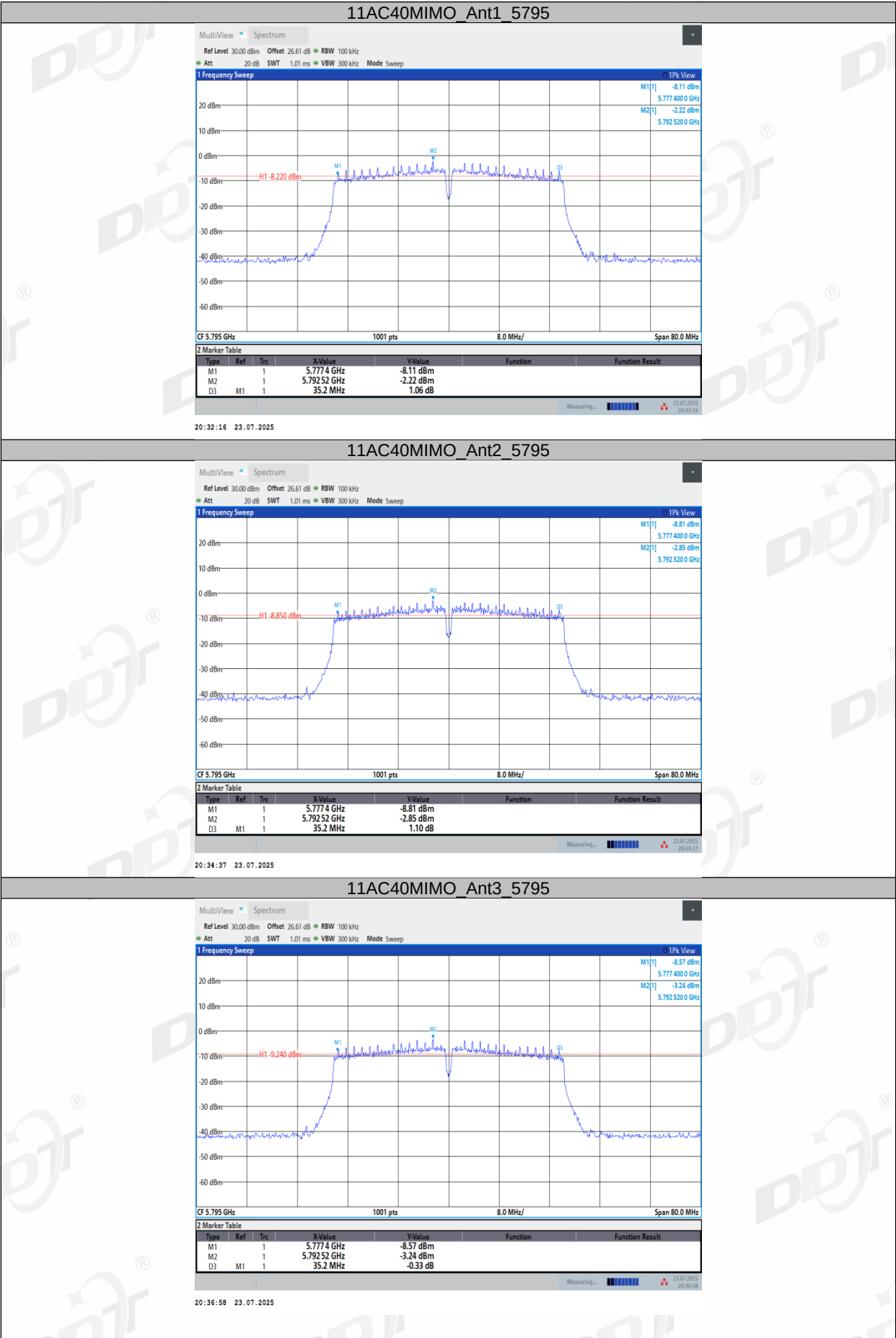






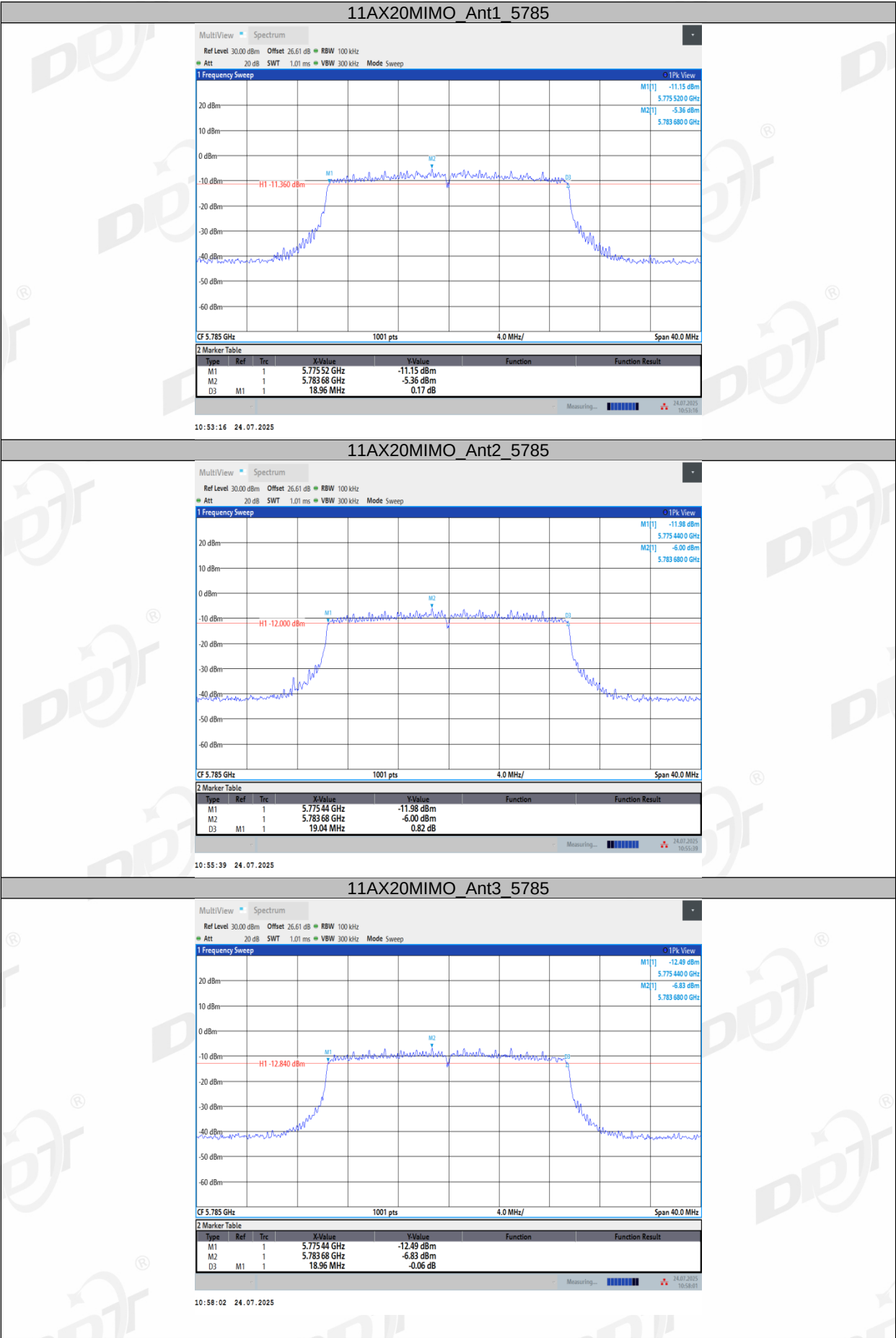






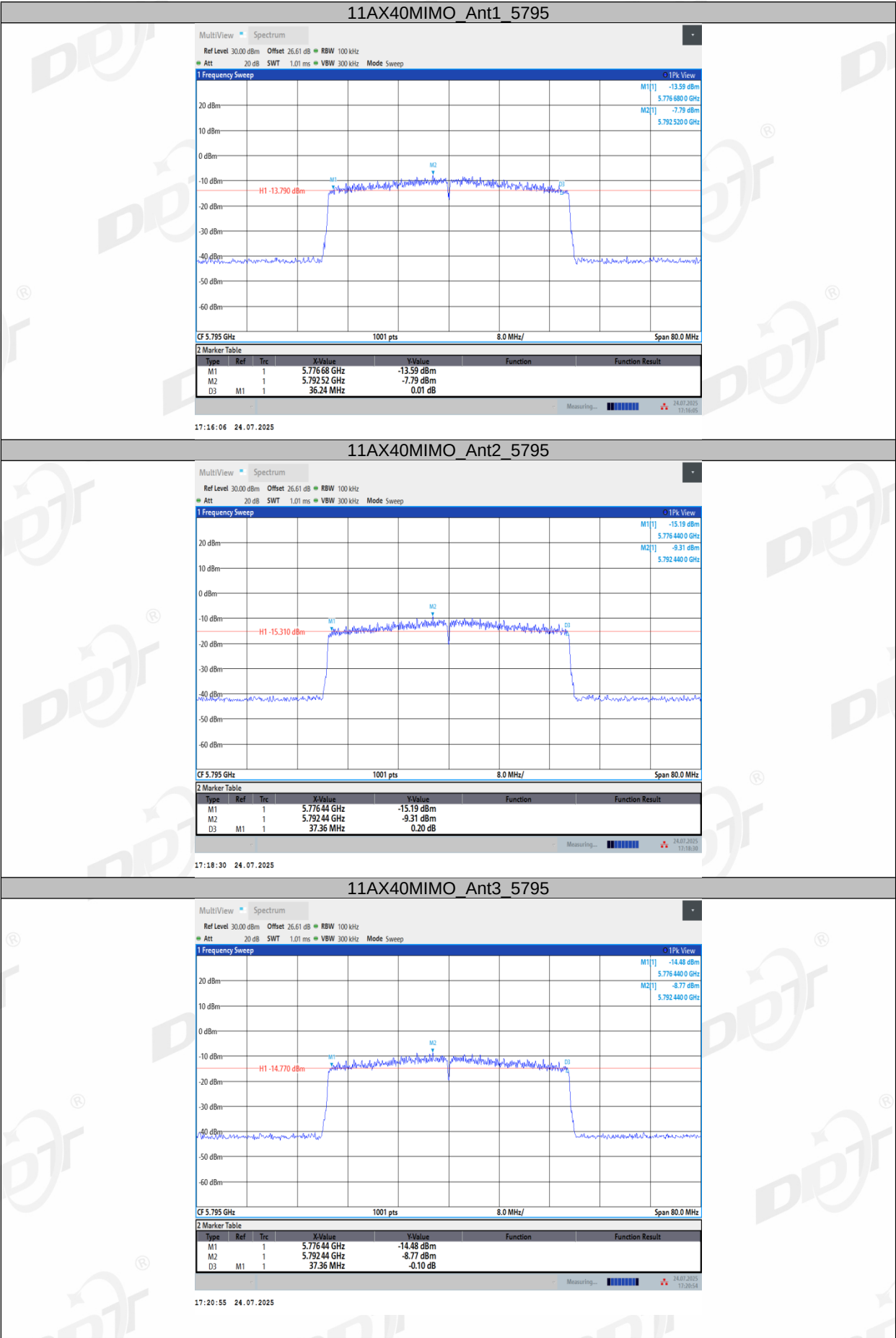


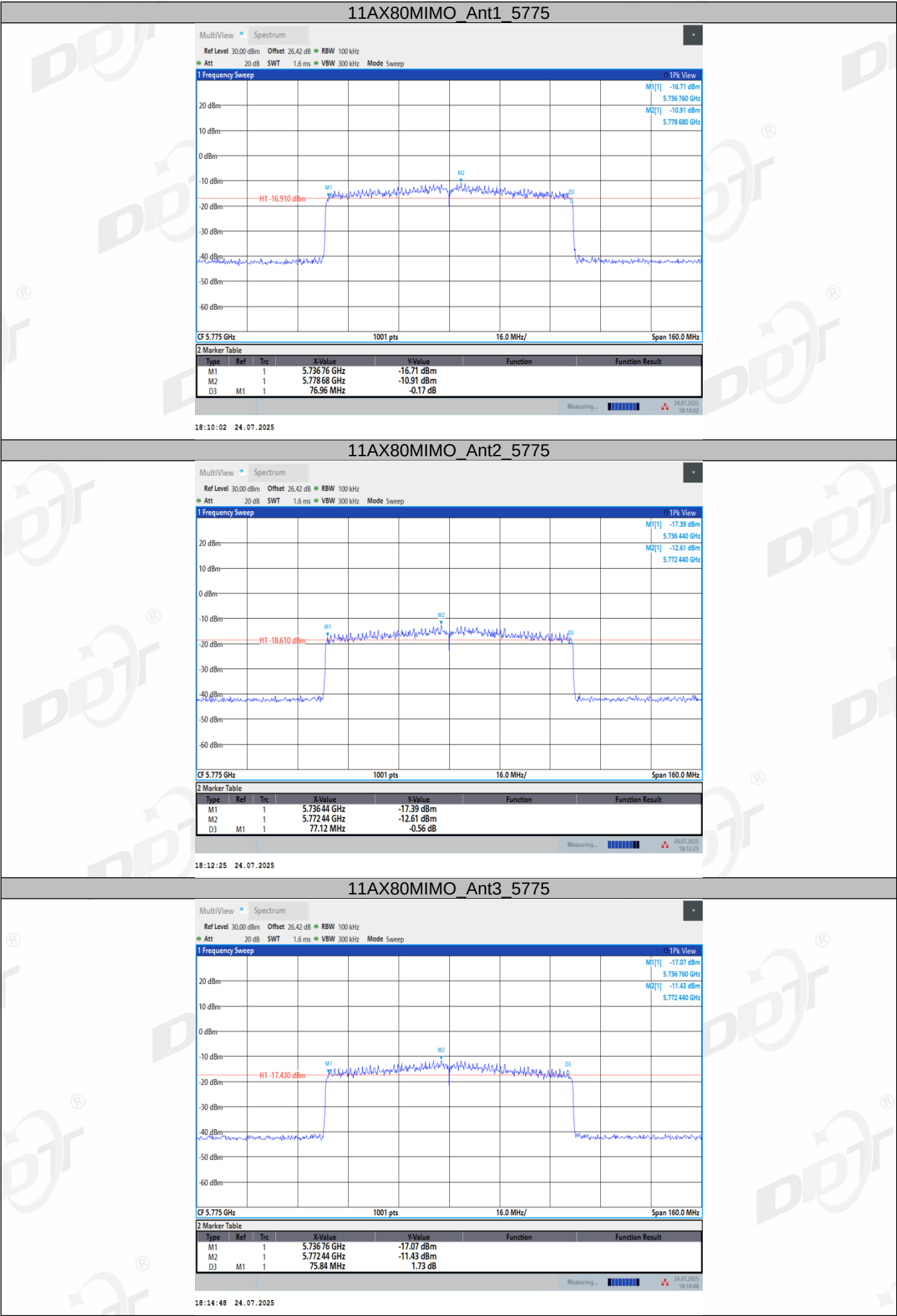






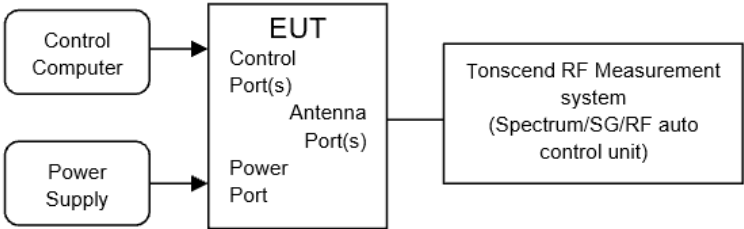






6. 99% Bandwidth

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:	23.1-26.5°C, 42.8-47.5%RH	Test Date:	2025.07.23-2025.07.31
Test Power Supply:	DC 12V	Sample Number:	Q25070107-004

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A-CDD	Ant1	5180	17.869	5171.1266	5188.9955	---	---
	Ant2	5180	18.172	5171.0815	5189.2537	---	---
	Ant3	5180	17.897	5171.1037	5189.0006	---	---
	Ant1	5200	17.905	5191.0366	5208.9416	---	---
	Ant2	5200	18.069	5191.0361	5209.1056	---	---
	Ant3	5200	17.938	5191.0132	5208.9513	---	---
	Ant1	5240	17.365	5231.2954	5248.6607	---	---
	Ant2	5240	17.415	5231.2699	5248.6850	---	---
	Ant3	5240	17.379	5231.2827	5248.6616	---	---
	Ant1	5260	17.239	5251.3877	5268.6270	---	---
	Ant2	5260	17.268	5251.3581	5268.6263	---	---
	Ant3	5260	17.255	5251.3525	5268.6076	---	---
	Ant1	5280	17.265	5271.3272	5288.5923	---	---
	Ant2	5280	17.324	5271.3084	5288.6322	---	---
	Ant3	5280	17.278	5271.3145	5288.5927	---	---
	Ant1	5320	17.793	5311.0193	5328.8119	---	---
	Ant2	5320	17.855	5310.9527	5328.8077	---	---
	Ant3	5320	17.890	5310.9527	5328.8427	---	---
	Ant1	5500	18.018	5491.0623	5509.0801	---	---
	Ant2	5500	17.896	5491.0920	5508.9884	---	---
	Ant3	5500	17.883	5491.1029	5508.9858	---	---
	Ant1	5580	17.298	5571.2918	5588.5900	---	---
	Ant2	5580	17.359	5571.2654	5588.6241	---	---
	Ant3	5580	17.332	5571.2686	5588.6002	---	---
	Ant1	5700	17.775	5690.8923	5708.6673	---	---
	Ant2	5700	17.794	5690.9831	5708.7774	---	---

	Ant3	5700	17.723	5690.9674	5708.6902	---	---
	Ant1	5720	17.288	5711.3235	5728.6116	---	---
	Ant2	5720	17.355	5711.3037	5728.6587	---	---
	Ant3	5720	17.273	5711.3156	5728.5881	---	---
	Ant1	5720_UNII-2C	13.676	5711.3235	5725	---	---
	Ant2	5720_UNII-2C	13.696	5711.3037	5725	---	---
	Ant3	5720_UNII-2C	13.684	5711.3156	5725	---	---
	Ant1	5720_UNII-3	3.612	5725	5728.6116	---	---
	Ant2	5720_UNII-3	3.659	5725	5728.6587	---	---
	Ant3	5720_UNII-3	3.588	5725	5728.5881	---	---
	Ant1	5745	17.569	5736.2655	5753.8346	---	---
	Ant2	5745	17.701	5736.2166	5753.9175	---	---
	Ant3	5745	17.597	5736.2808	5753.8779	---	---
	Ant1	5785	17.244	5776.3339	5793.5782	---	---
	Ant2	5785	17.259	5776.3613	5793.6202	---	---
	Ant3	5785	17.244	5776.3162	5793.5602	---	---
	Ant1	5825	17.759	5815.9350	5833.6943	---	---
	Ant2	5825	17.717	5815.9741	5833.6911	---	---
	Ant3	5825	17.806	5815.9046	5833.7110	---	---
11N20MIMO	Ant1	5180	18.866	5170.6484	5189.5139	---	---
	Ant2	5180	18.944	5170.6221	5189.5658	---	---
	Ant3	5180	18.907	5170.6046	5189.5118	---	---
	Ant1	5200	18.939	5190.5280	5209.4666	---	---
	Ant2	5200	18.947	5190.5812	5209.5279	---	---
	Ant3	5200	19.012	5190.5015	5209.5130	---	---
	Ant1	5240	18.255	5230.8619	5249.1171	---	---
	Ant2	5240	18.283	5230.8555	5249.1383	---	---
	Ant3	5240	18.248	5230.8461	5249.0946	---	---
	Ant1	5260	18.361	5250.8115	5269.1729	---	---
	Ant2	5260	18.305	5250.8449	5269.1500	---	---
	Ant3	5260	18.325	5250.8320	5269.1571	---	---
	Ant1	5280	18.330	5270.8074	5289.1371	---	---

Ant2	5280	18.364	5270.8022	5289.1663	---	---
Ant3	5280	18.381	5270.7793	5289.1607	---	---
Ant1	5320	18.888	5310.4279	5329.3155	---	---
Ant2	5320	18.871	5310.4739	5329.3449	---	---
Ant3	5320	18.861	5310.4460	5329.3067	---	---
Ant1	5500	18.960	5490.5658	5509.5262	---	---
Ant2	5500	18.866	5490.6150	5509.4811	---	---
Ant3	5500	18.896	5490.6206	5509.5168	---	---
Ant1	5580	18.397	5570.7518	5589.1490	---	---
Ant2	5580	18.374	5570.7588	5589.1329	---	---
Ant3	5580	18.424	5570.7382	5589.1618	---	---
Ant1	5700	18.807	5690.4018	5709.2092	---	---
Ant2	5700	18.743	5690.4816	5709.2246	---	---
Ant3	5700	18.722	5690.4731	5709.1953	---	---
Ant1	5720	18.355	5710.7897	5729.1445	---	---
Ant2	5720	18.368	5710.7965	5729.1643	---	---
Ant3	5720	18.340	5710.7923	5729.1325	---	---
Ant1	5720_UNII-2C	14.21	5710.7897	5725	---	---
Ant2	5720_UNII-2C	14.203	5710.7965	5725	---	---
Ant3	5720_UNII-2C	14.208	5710.7923	5725	---	---
Ant1	5720_UNII-3	4.145	5725	5729.1445	---	---
Ant2	5720_UNII-3	4.164	5725	5729.1643	---	---
Ant3	5720_UNII-3	4.132	5725	5729.1325	---	---
Ant1	5745	18.666	5735.7557	5754.4213	---	---
Ant2	5745	18.658	5735.7241	5754.3817	---	---
Ant3	5745	18.626	5735.7348	5754.3606	---	---
Ant1	5785	18.326	5775.8231	5794.1491	---	---
Ant2	5785	18.325	5775.8152	5794.1399	---	---
Ant3	5785	18.323	5775.8136	5794.1370	---	---
Ant1	5825	18.834	5815.4388	5834.2725	---	---
Ant2	5825	18.772	5815.4578	5834.2299	---	---
Ant3	5825	18.805	5815.4024	5834.2077	---	---

11N40MIMO	Ant1	5190	37.002	5171.5959	5208.5983	---	---
	Ant2	5190	37.087	5171.5891	5208.6761	---	---
	Ant3	5190	37.029	5171.5584	5208.5878	---	---
	Ant1	5230	36.490	5211.7379	5248.2284	---	---
	Ant2	5230	36.494	5211.7810	5248.2745	---	---
	Ant3	5230	36.534	5211.7169	5248.2511	---	---
	Ant1	5270	36.487	5251.7505	5288.2372	---	---
	Ant2	5270	36.512	5251.7322	5288.2441	---	---
	Ant3	5270	36.444	5251.8052	5288.2497	---	---
	Ant1	5310	36.956	5291.4395	5328.3957	---	---
	Ant2	5310	36.874	5291.4947	5328.3687	---	---
	Ant3	5310	36.987	5291.3969	5328.3839	---	---
	Ant1	5510	37.026	5491.4938	5528.5194	---	---
	Ant2	5510	36.978	5491.4766	5528.4550	---	---
	Ant3	5510	36.379	5491.7980	5528.1772	---	---
	Ant1	5550	36.413	5531.7237	5568.1366	---	---
	Ant2	5550	36.559	5531.6275	5568.1861	---	---
	Ant3	5550	36.513	5531.6627	5568.1754	---	---
	Ant1	5670	37.078	5651.4978	5688.5758	---	---
	Ant2	5670	37.308	5651.4322	5688.7398	---	---
	Ant3	5670	37.161	5651.3361	5688.4972	---	---
	Ant1	5710	36.549	5691.6804	5728.2297	---	---
	Ant2	5710	36.629	5691.6987	5728.3273	---	---
	Ant3	5710	36.589	5691.6711	5728.2605	---	---
	Ant1	5710_UNII-2C	33.32	5691.6804	5725	---	---
	Ant2	5710_UNII-2C	33.301	5691.6987	5725	---	---
	Ant3	5710_UNII-2C	33.329	5691.6711	5725	---	---
	Ant1	5710_UNII-3	3.23	5725	5728.2297	---	---
	Ant2	5710_UNII-3	3.327	5725	5728.3273	---	---
	Ant3	5710_UNII-3	3.261	5725	5728.2605	---	---
	Ant1	5755	36.927	5736.5854	5773.5127	---	---
	Ant2	5755	36.952	5736.5723	5773.5247	---	---

	Ant3	5755	36.986	5736.5472	5773.5331	---	---
	Ant1	5795	36.562	5776.6853	5813.2470	---	---
	Ant2	5795	36.550	5776.6901	5813.2400	---	---
	Ant3	5795	36.615	5776.6317	5813.2467	---	---
11AC20MIMO	Ant1	5180	18.773	5170.6243	5189.3969	---	---
	Ant2	5180	18.410	5170.8317	5189.2416	---	---
	Ant3	5180	18.467	5170.7735	5189.2404	---	---
	Ant1	5200	18.768	5190.5889	5209.3571	---	---
	Ant2	5200	18.391	5190.8208	5209.2122	---	---
	Ant3	5200	18.464	5190.7851	5209.2490	---	---
	Ant1	5240	18.221	5230.8252	5249.0458	---	---
	Ant2	5240	17.969	5231.0147	5248.9837	---	---
	Ant3	5240	17.985	5230.9737	5248.9586	---	---
	Ant1	5260	18.307	5250.8148	5269.1216	---	---
	Ant2	5260	17.999	5251.0051	5269.0040	---	---
	Ant3	5260	17.986	5250.9883	5268.9739	---	---
	Ant1	5280	18.280	5270.8144	5289.0943	---	---
	Ant2	5280	17.984	5271.0073	5288.9910	---	---
	Ant3	5280	17.991	5270.9753	5288.9662	---	---
	Ant1	5320	18.771	5310.4790	5329.2503	---	---
	Ant2	5320	18.349	5310.7648	5329.1139	---	---
	Ant3	5320	18.400	5310.7305	5329.1308	---	---
	Ant1	5500	18.779	5490.6522	5509.4310	---	---
	Ant2	5500	18.337	5490.8795	5509.2163	---	---
	Ant3	5500	18.360	5490.8515	5509.2115	---	---
	Ant1	5580	18.348	5570.7695	5589.1177	---	---
	Ant2	5580	18.019	5570.9795	5588.9981	---	---
	Ant3	5580	17.983	5570.9576	5588.9404	---	---
	Ant1	5700	17.557	5691.1879	5708.7449	---	---
	Ant2	5700	17.480	5691.2039	5708.6842	---	---
	Ant3	5700	17.521	5691.1921	5708.7135	---	---
	Ant1	5720	18.337	5710.8014	5729.1384	---	---