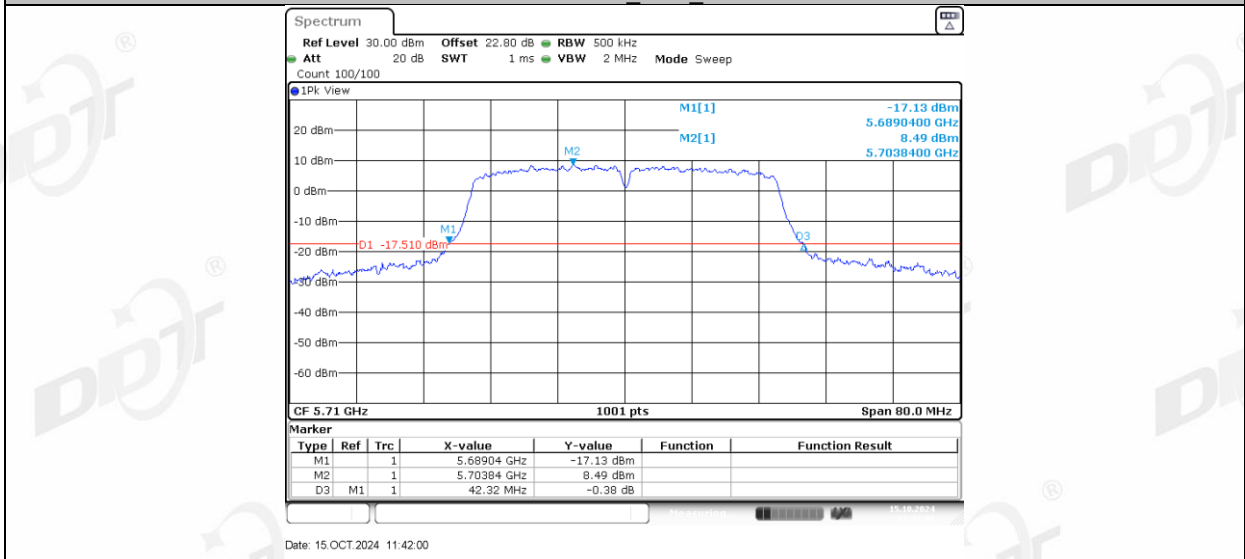
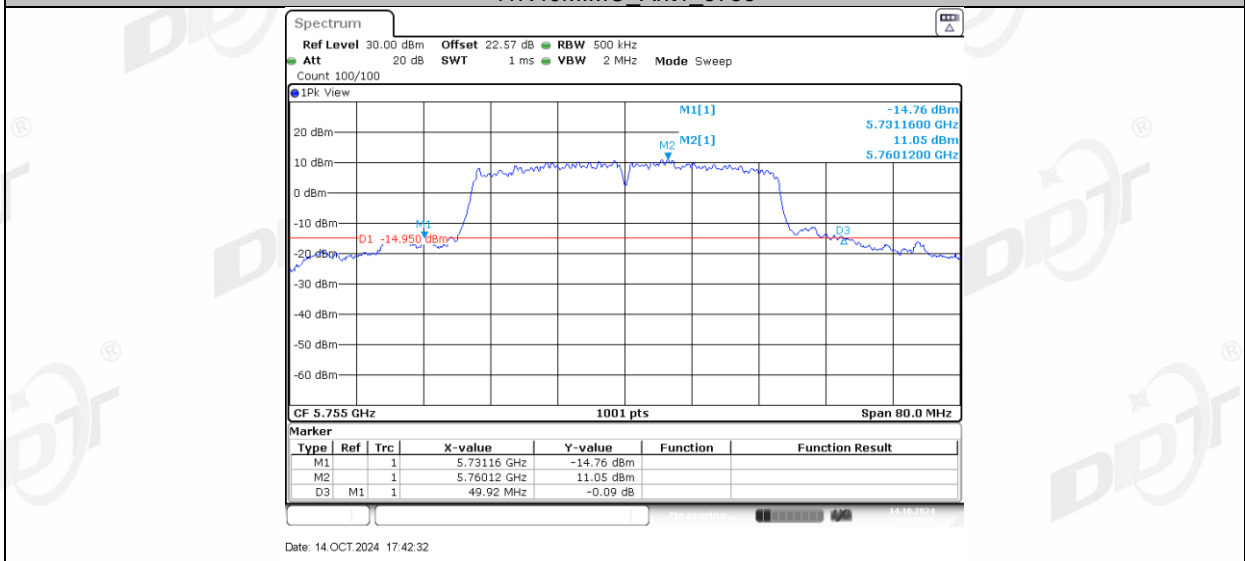


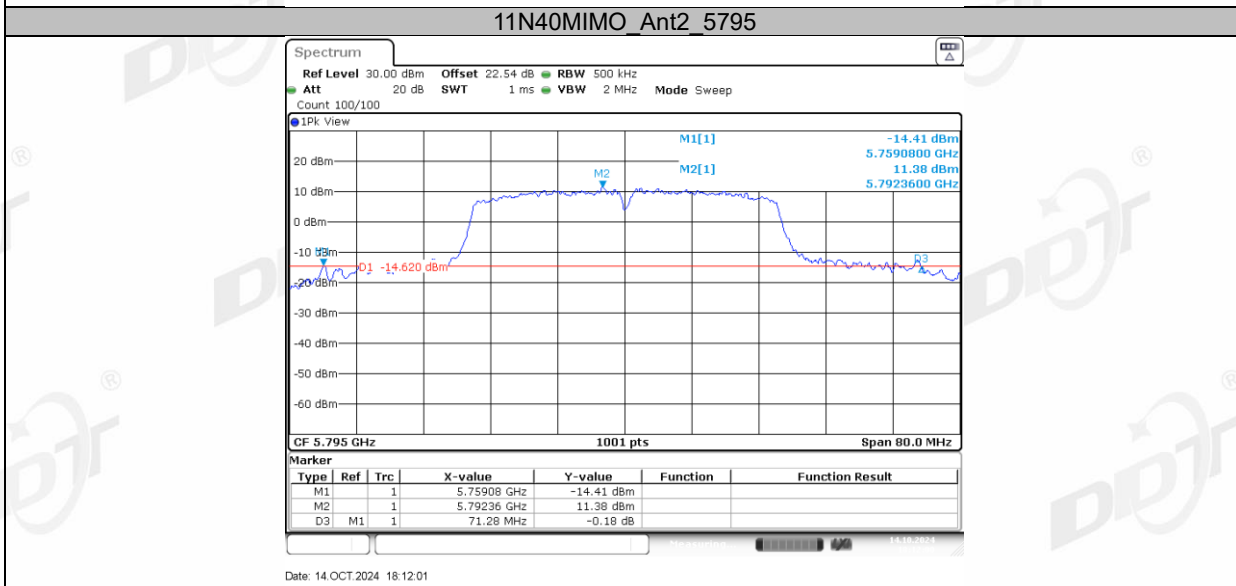
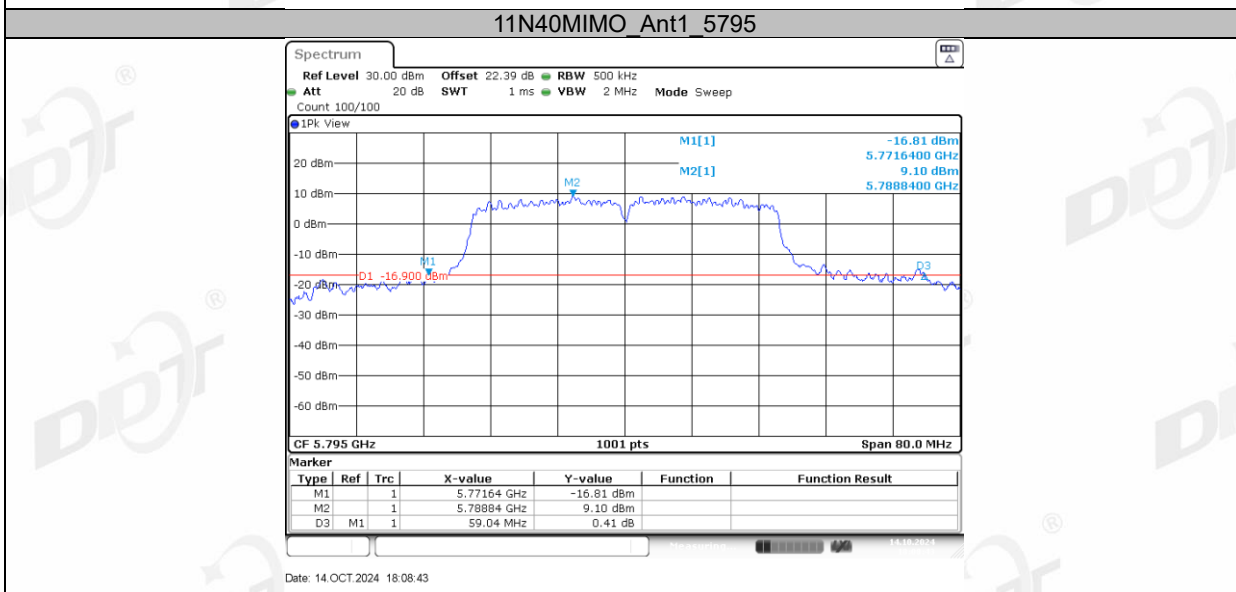
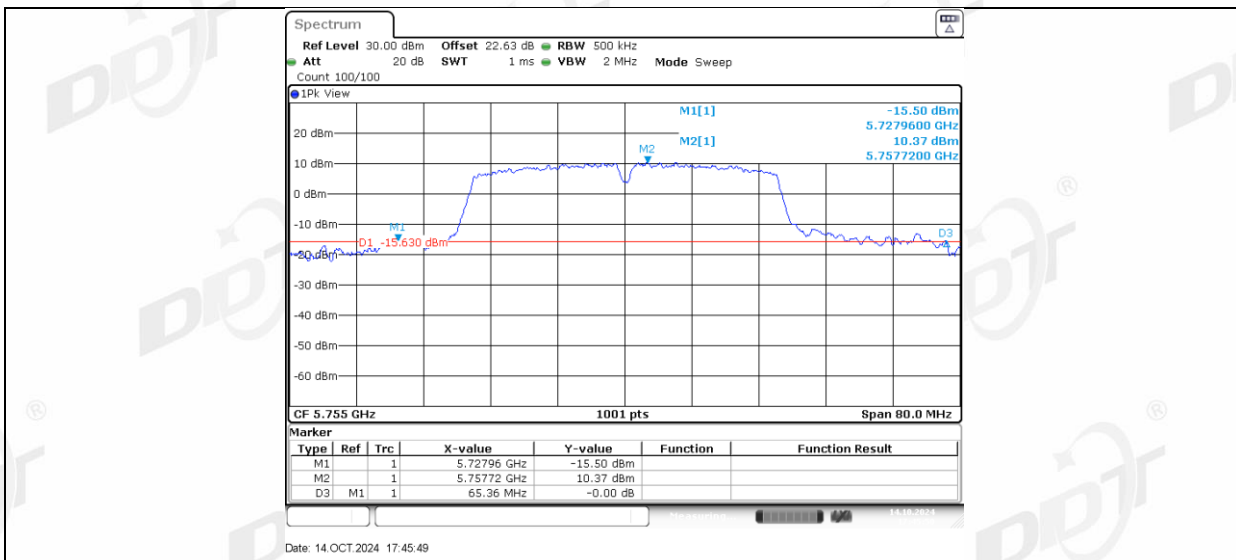
11N40MIMO\_Ant2\_5710



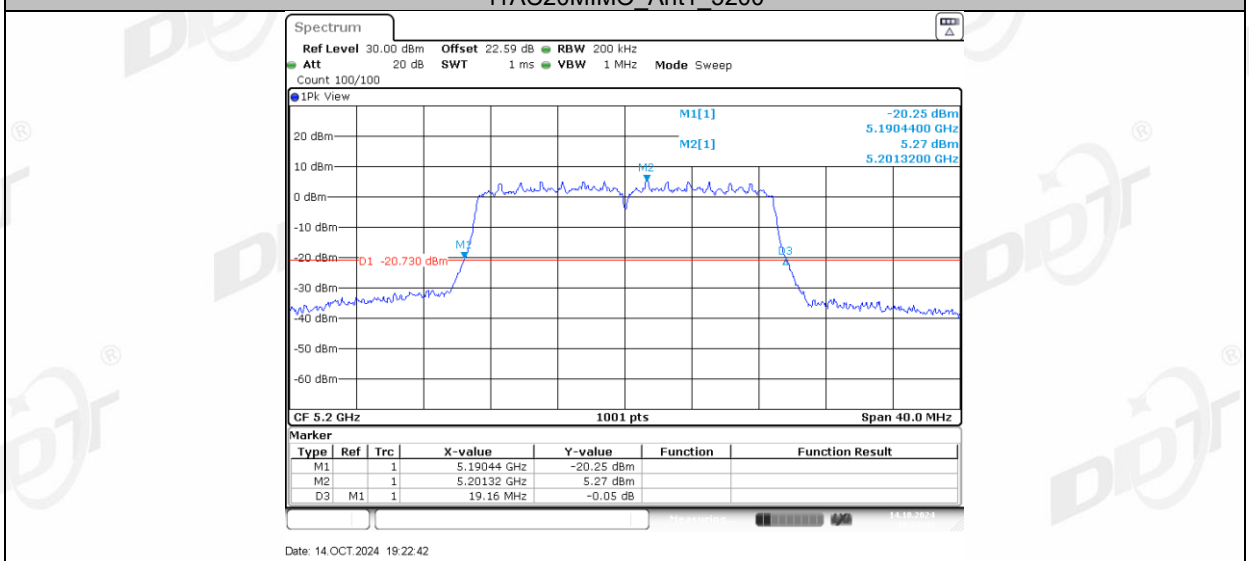
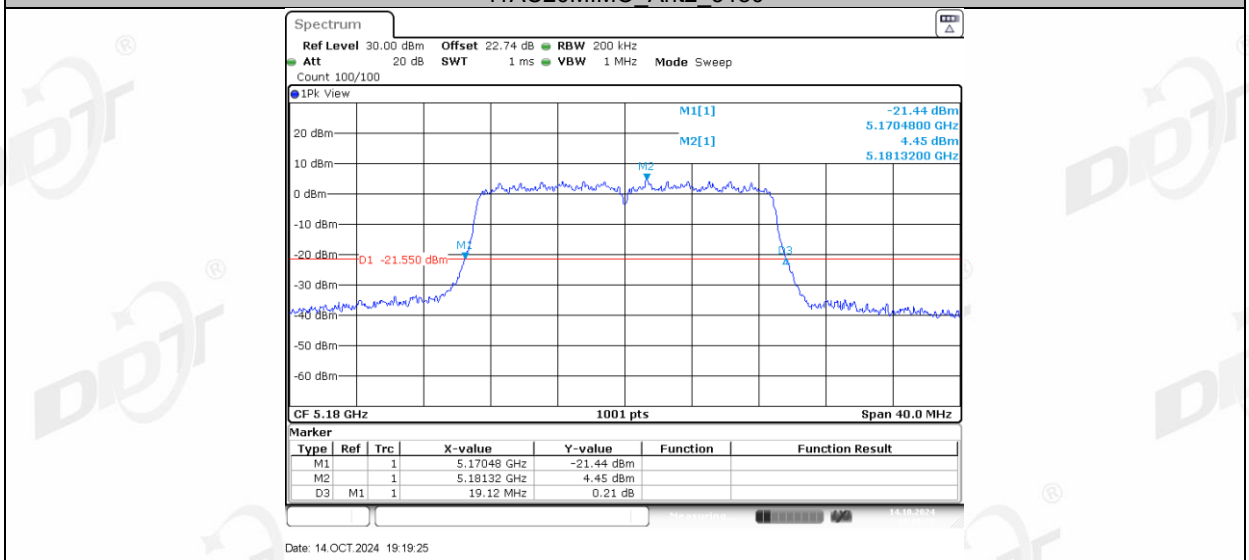
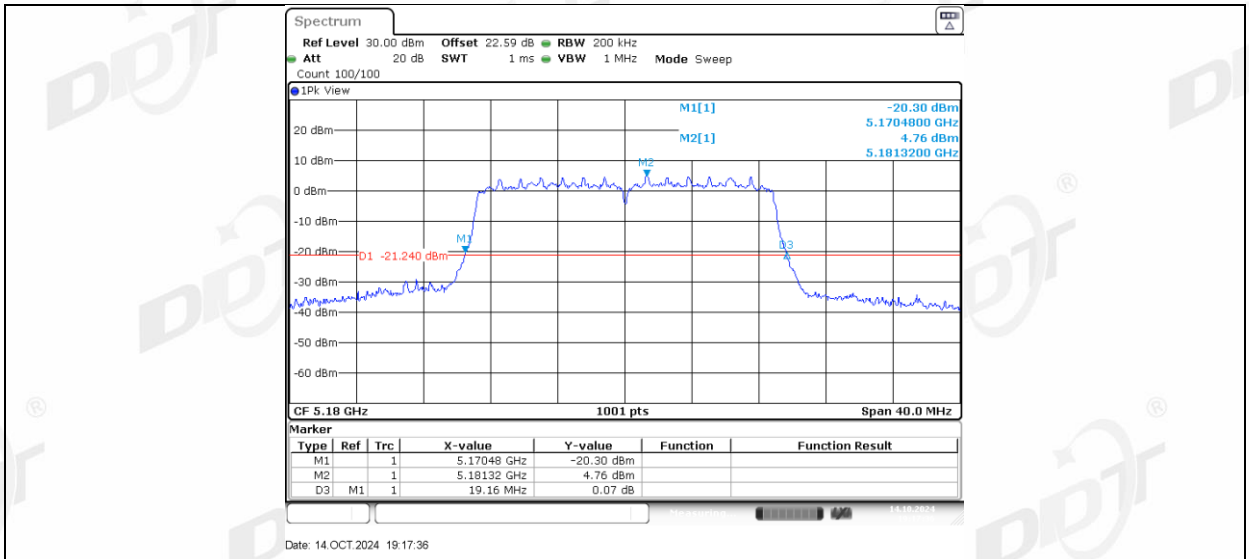
11N40MIMO\_Ant1\_5755

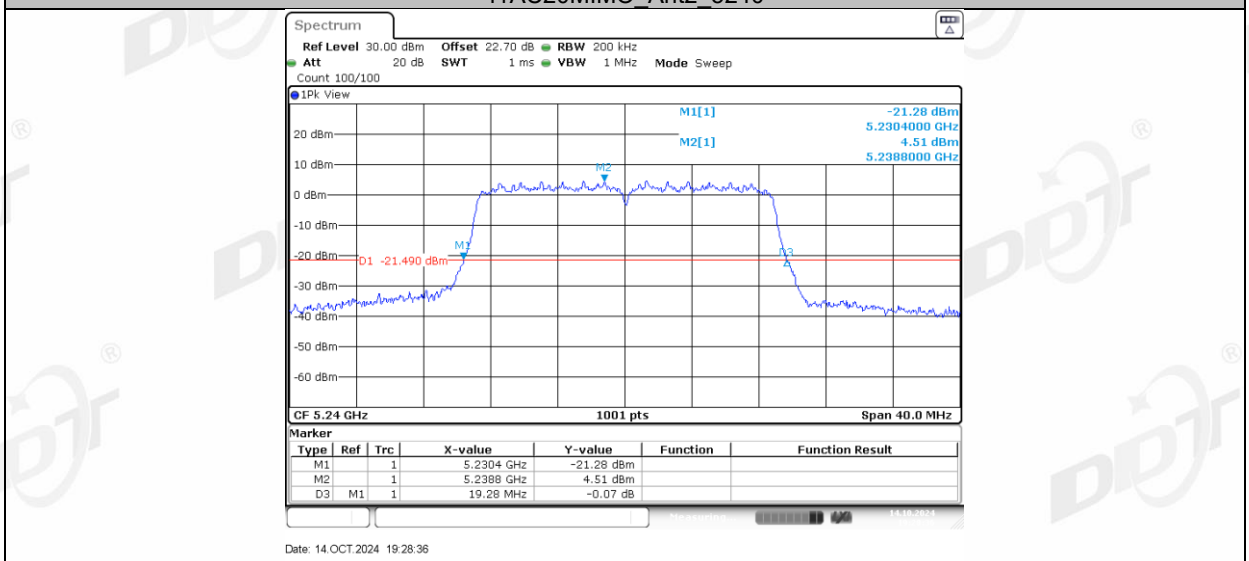
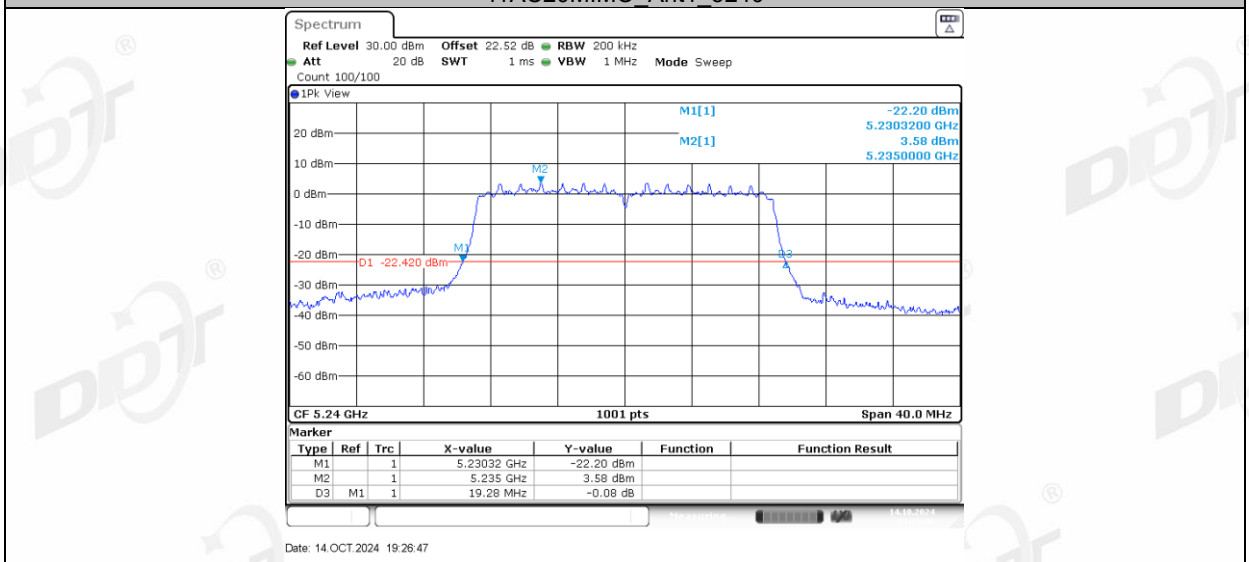
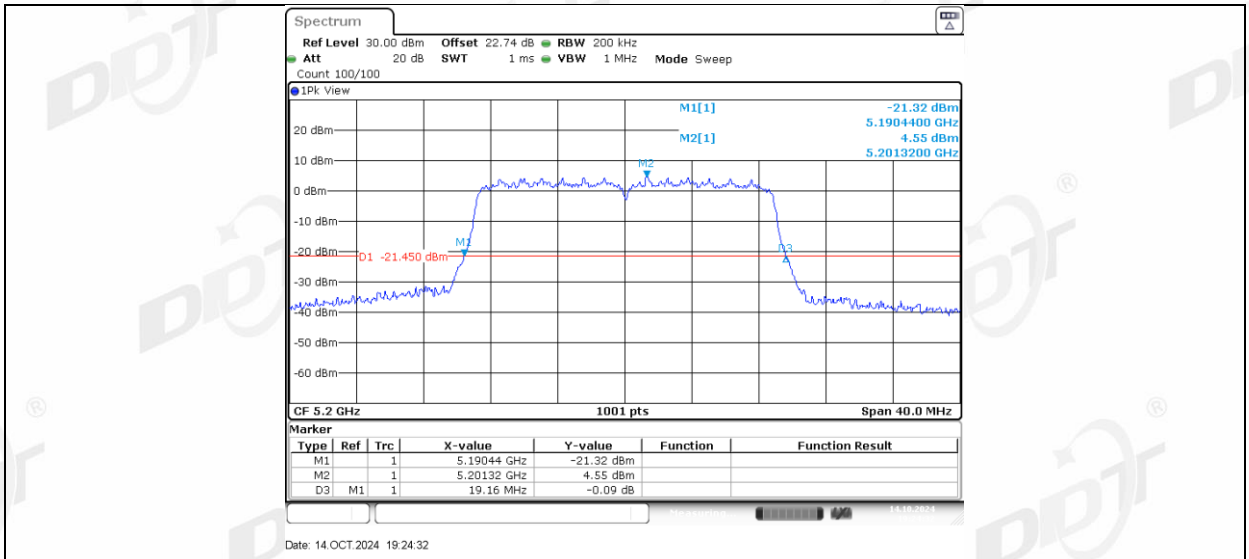


11N40MIMO\_Ant2\_5755

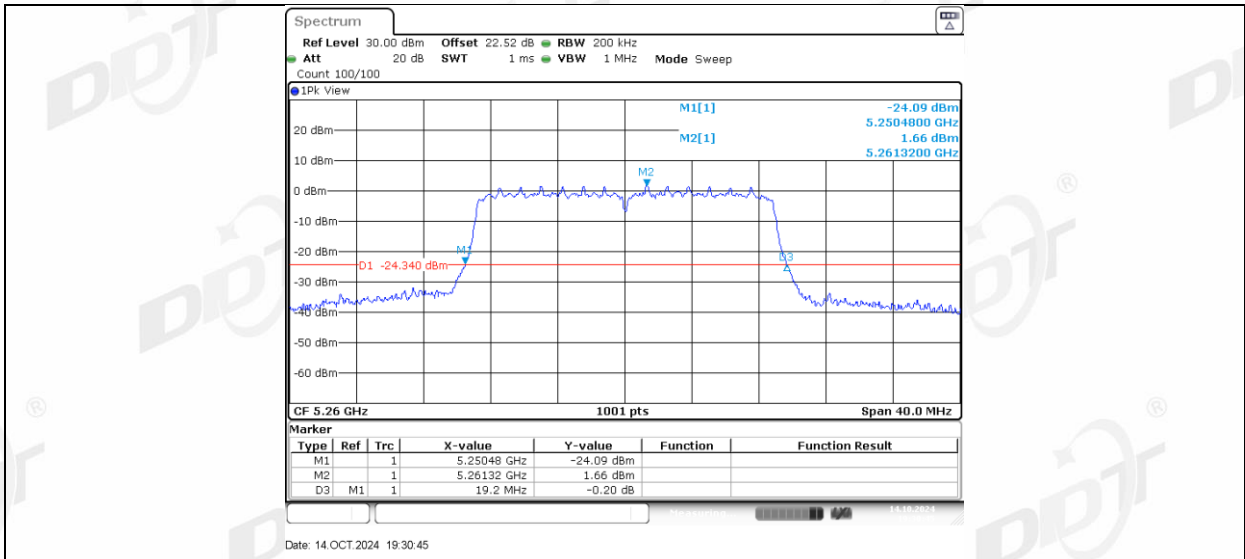


**11AC20MIMO\_Ant1\_5180**

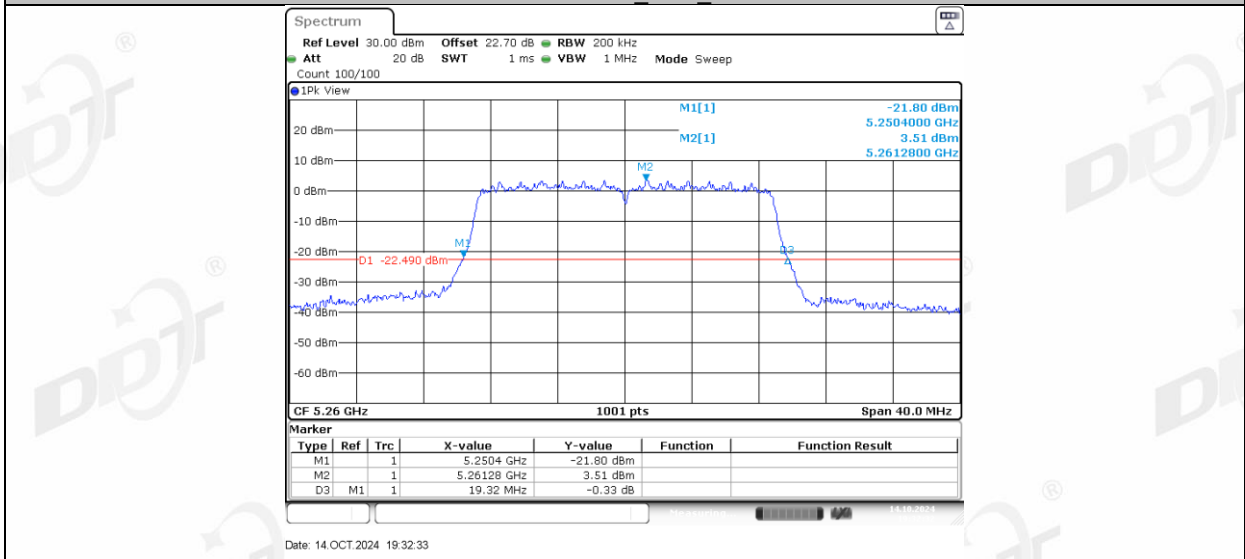




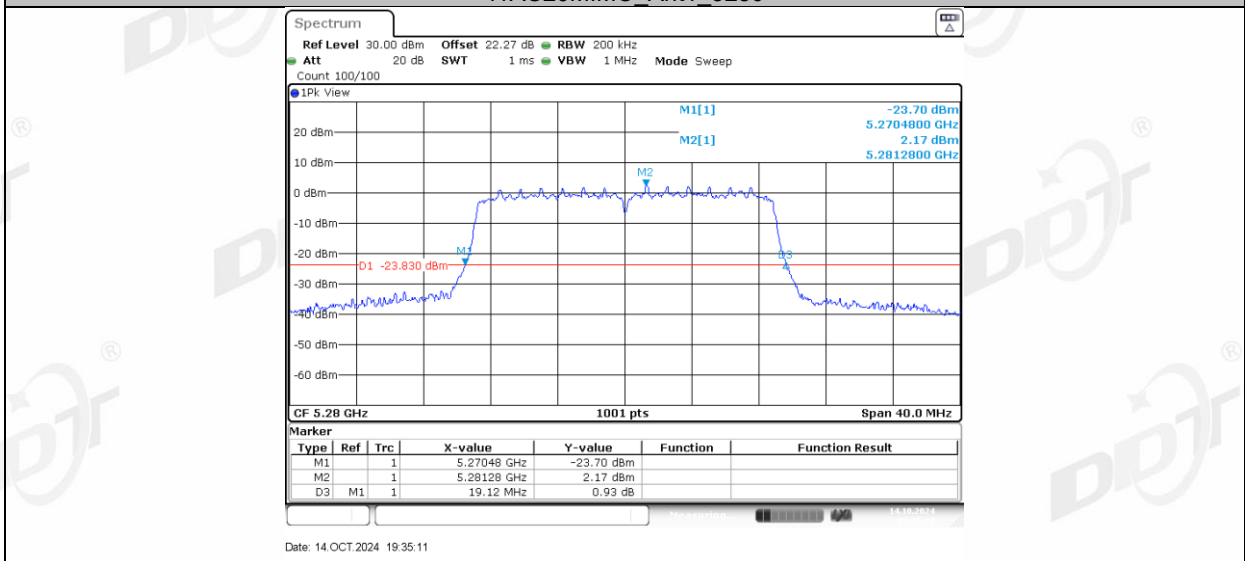
**11AC20MIMO\_Ant1\_5260**



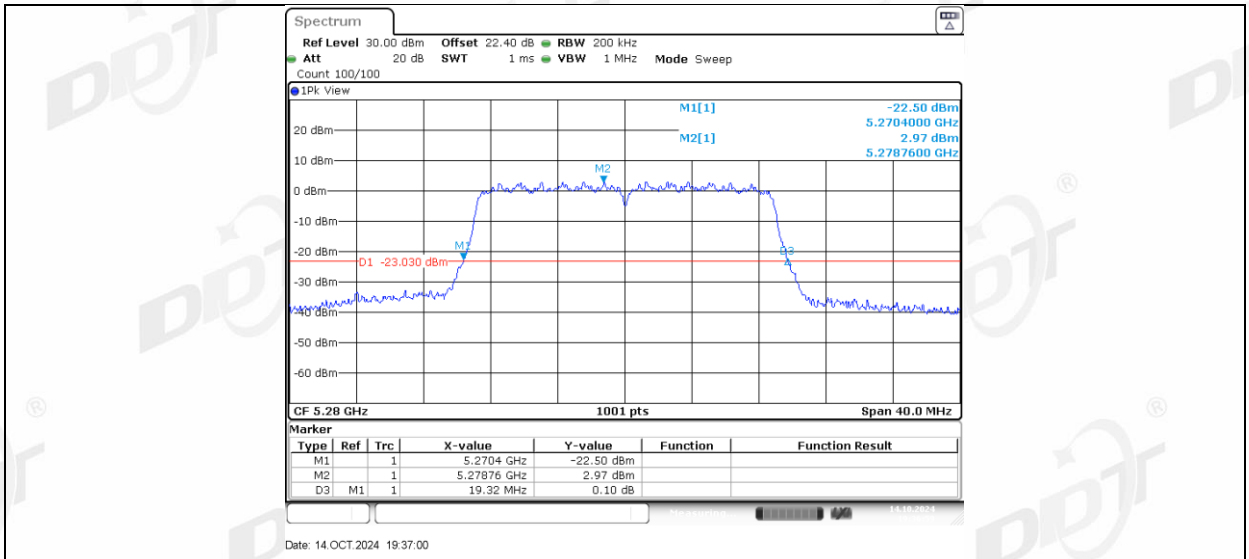
11AC20MIMO\_Ant2\_5260



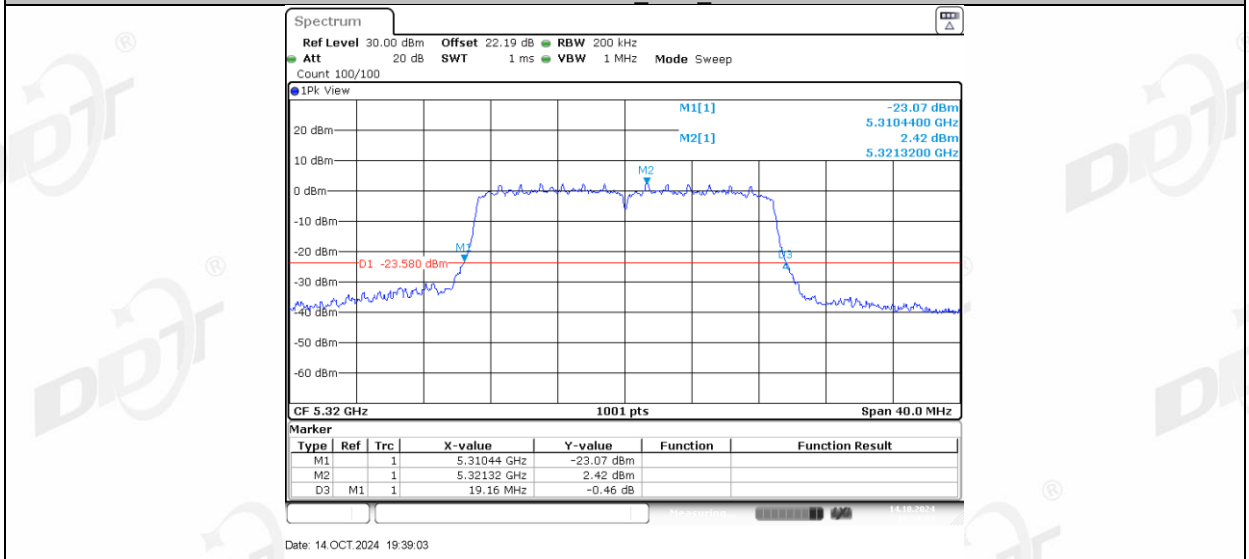
11AC20MIMO\_Ant1\_5280



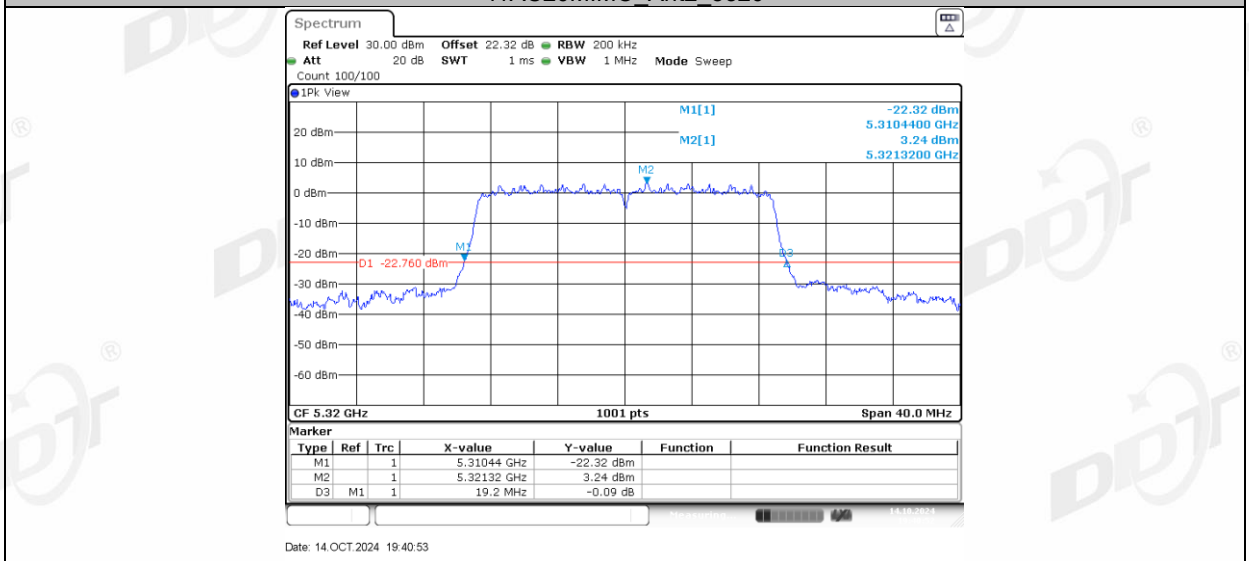
11AC20MIMO\_Ant2\_5280



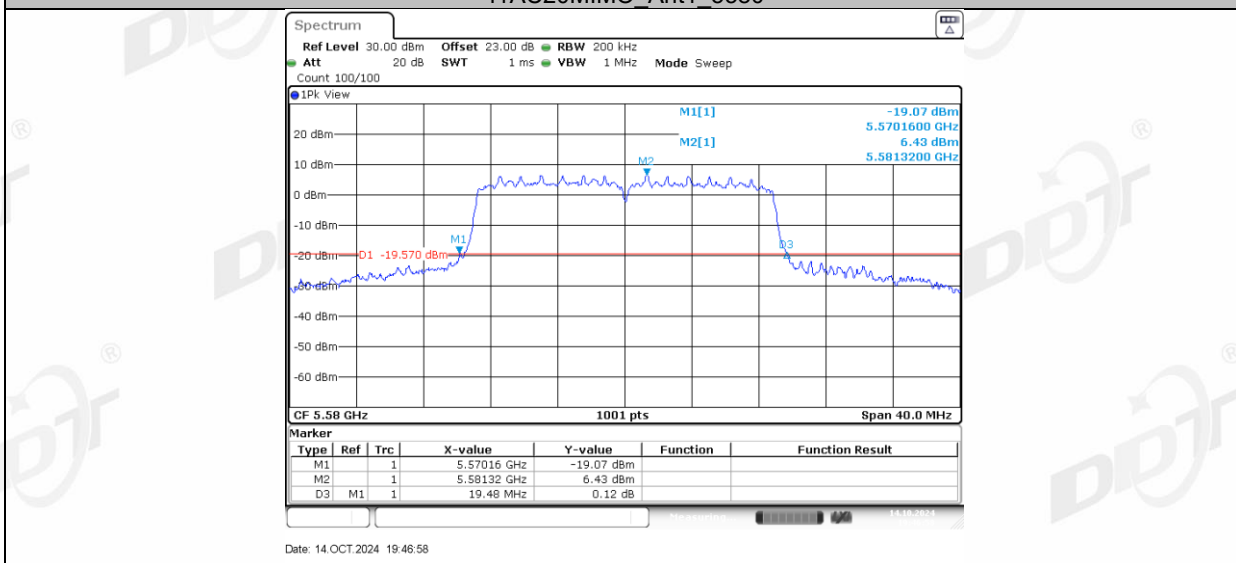
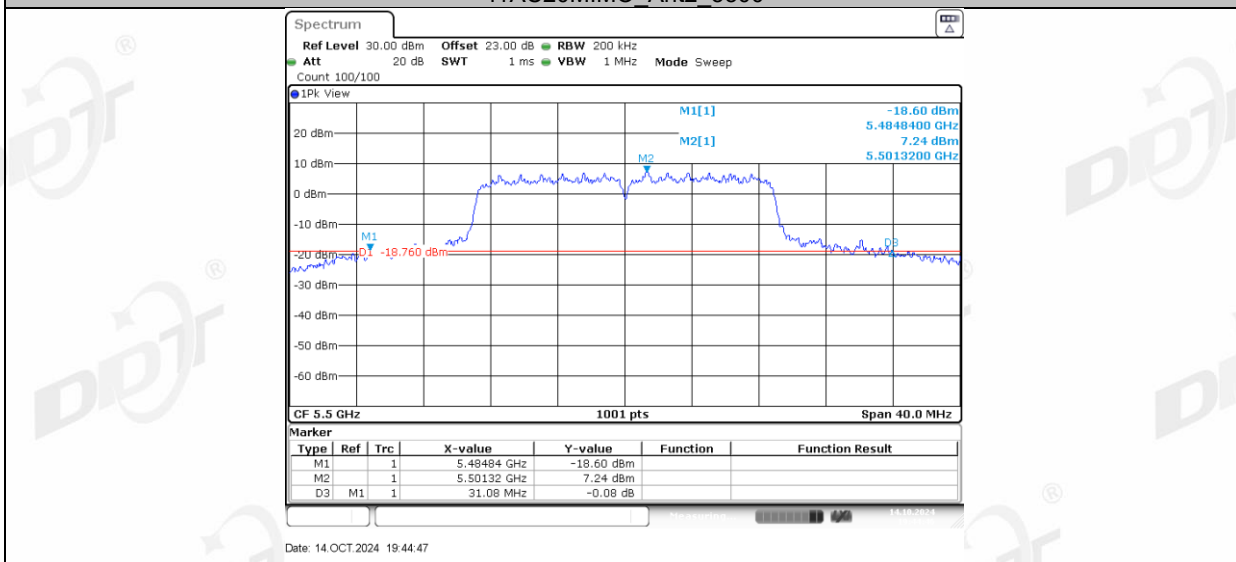
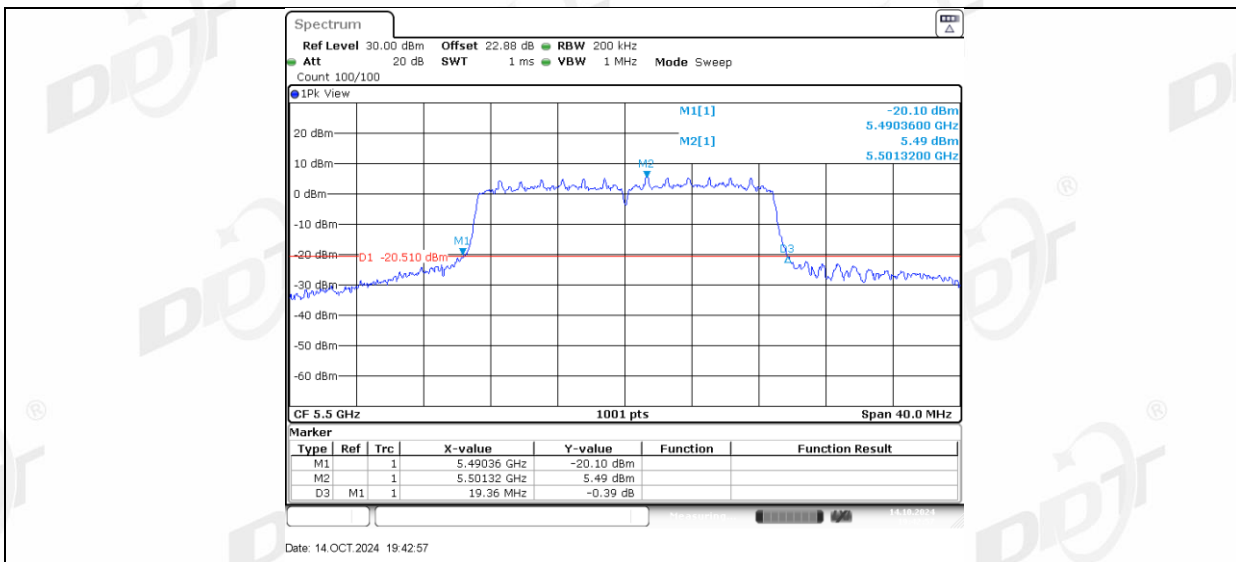
11AC20MIMO\_Ant1\_5320



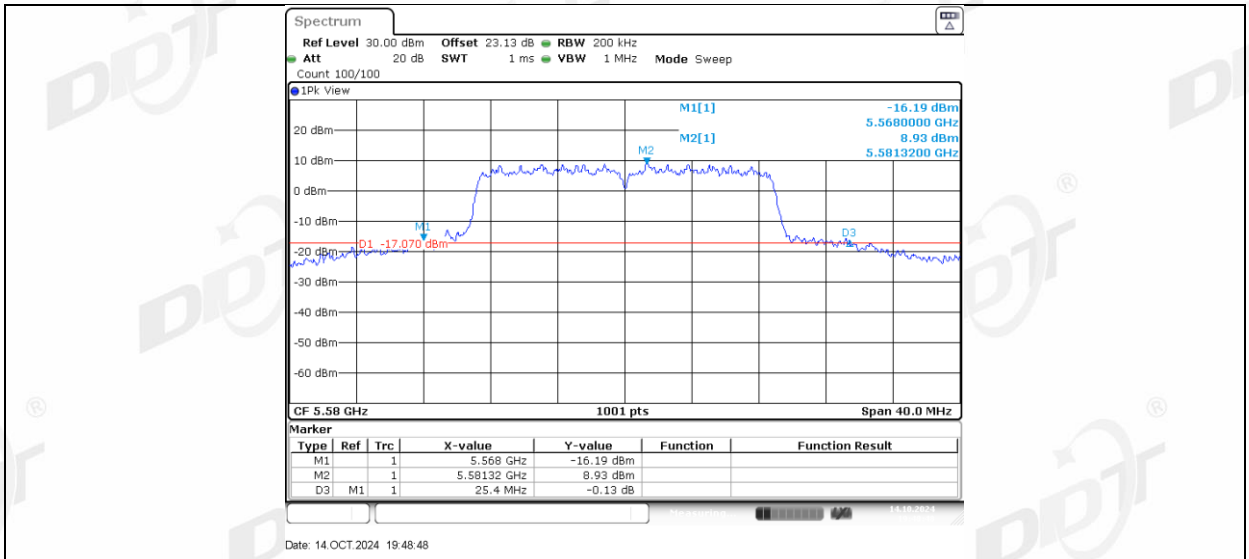
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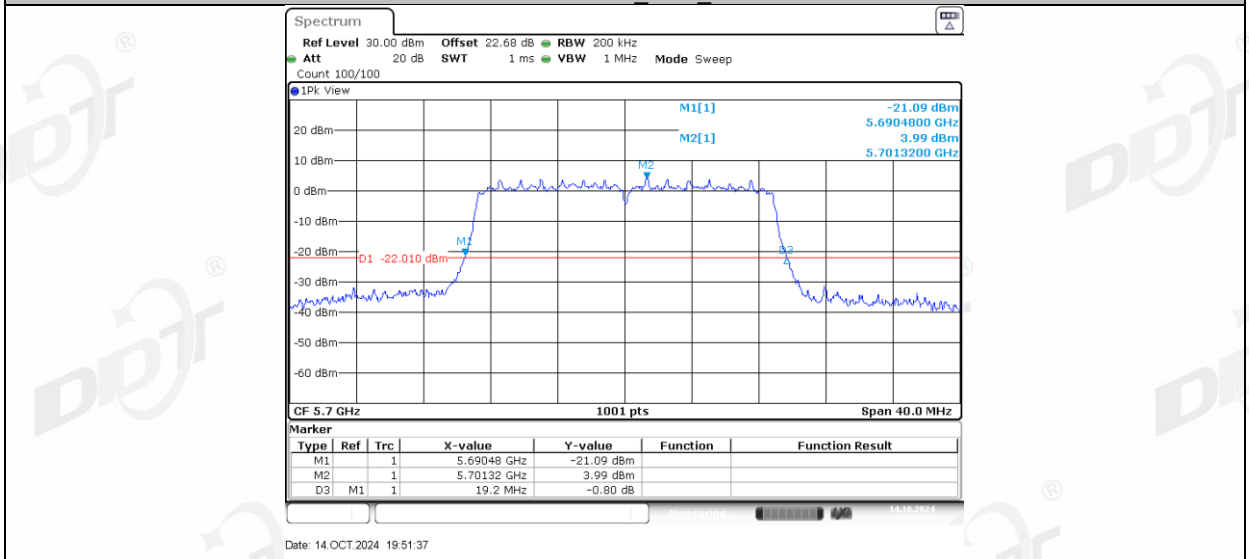
11AC20MIMO\_Ant1\_5500



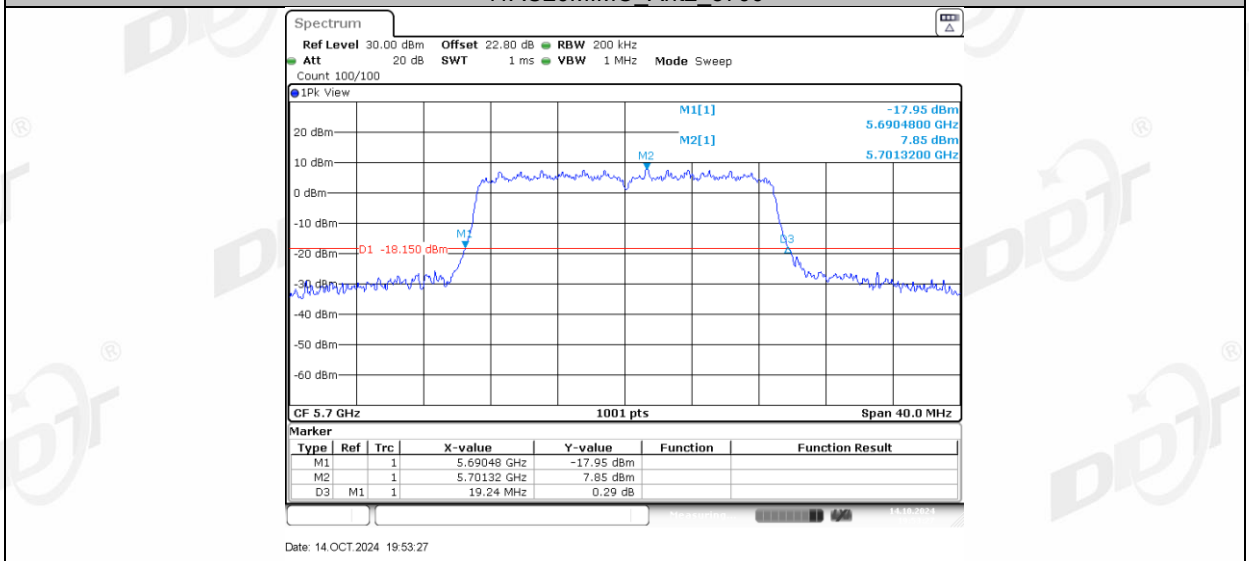




11AC20MIMO\_Ant1\_5700

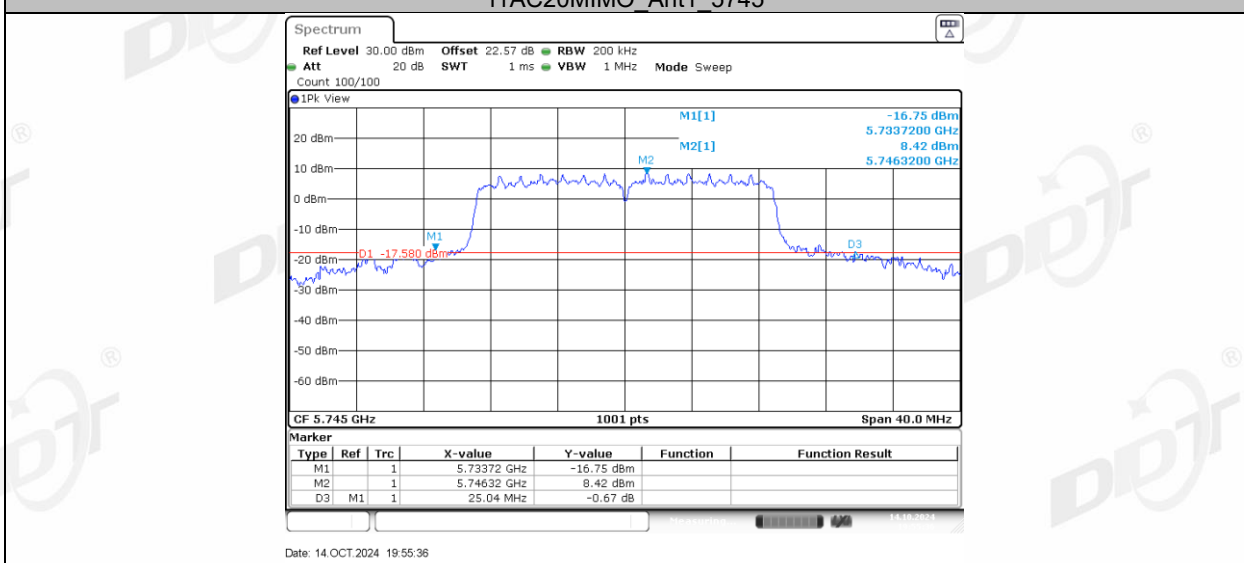
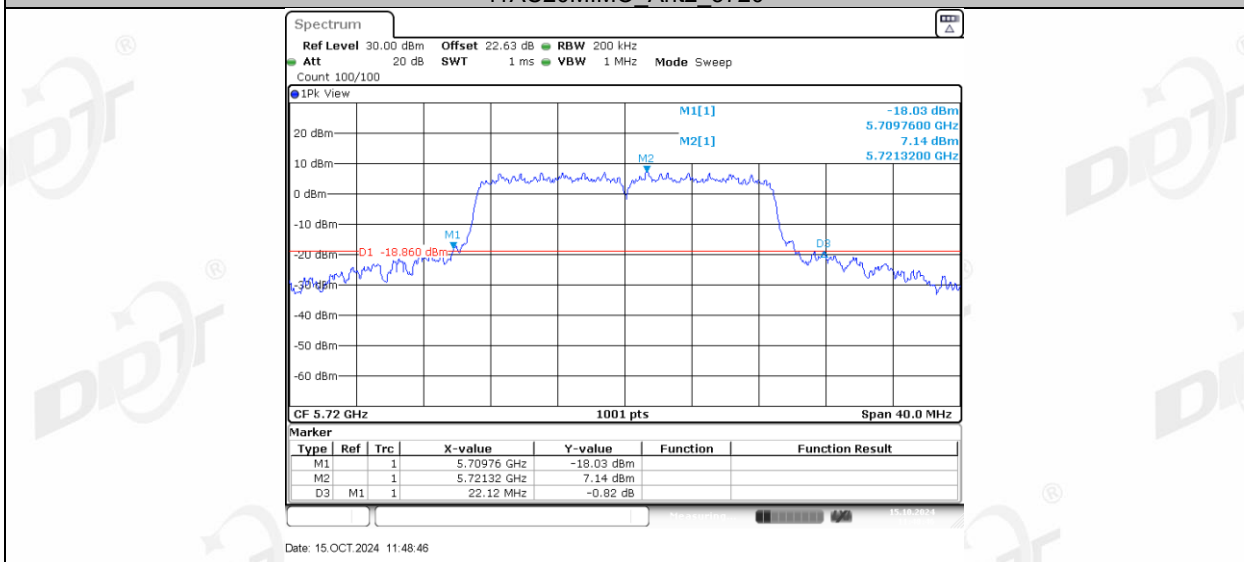
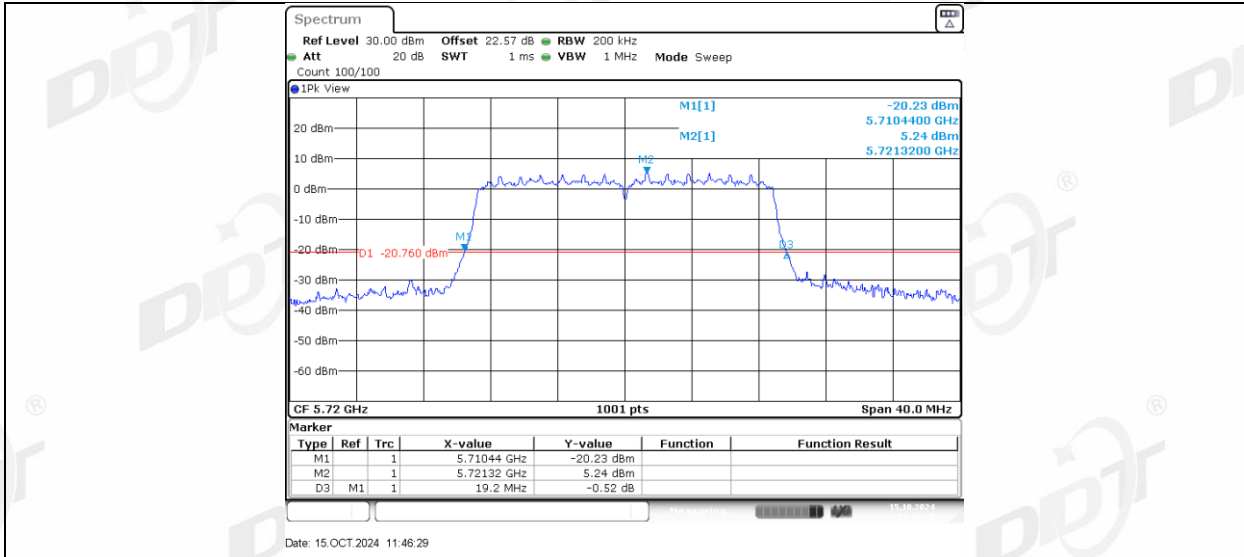


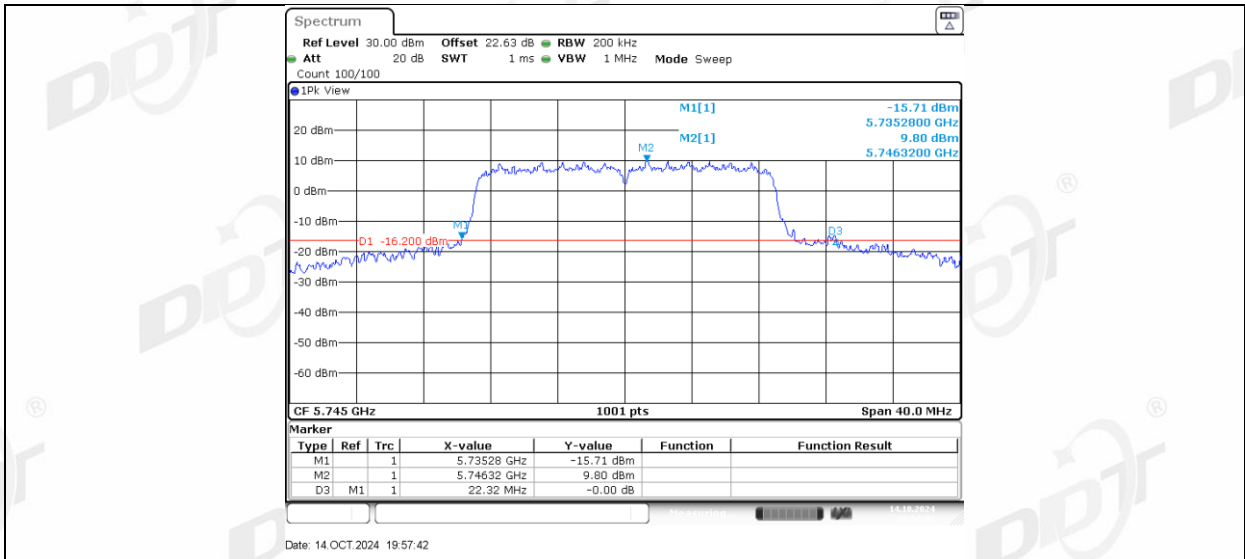
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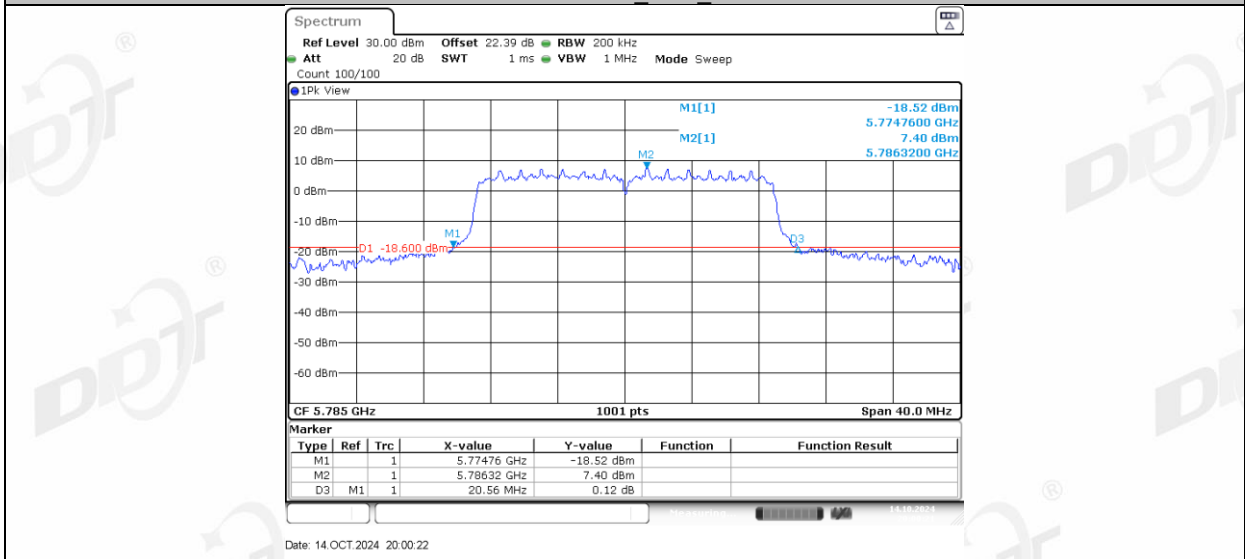
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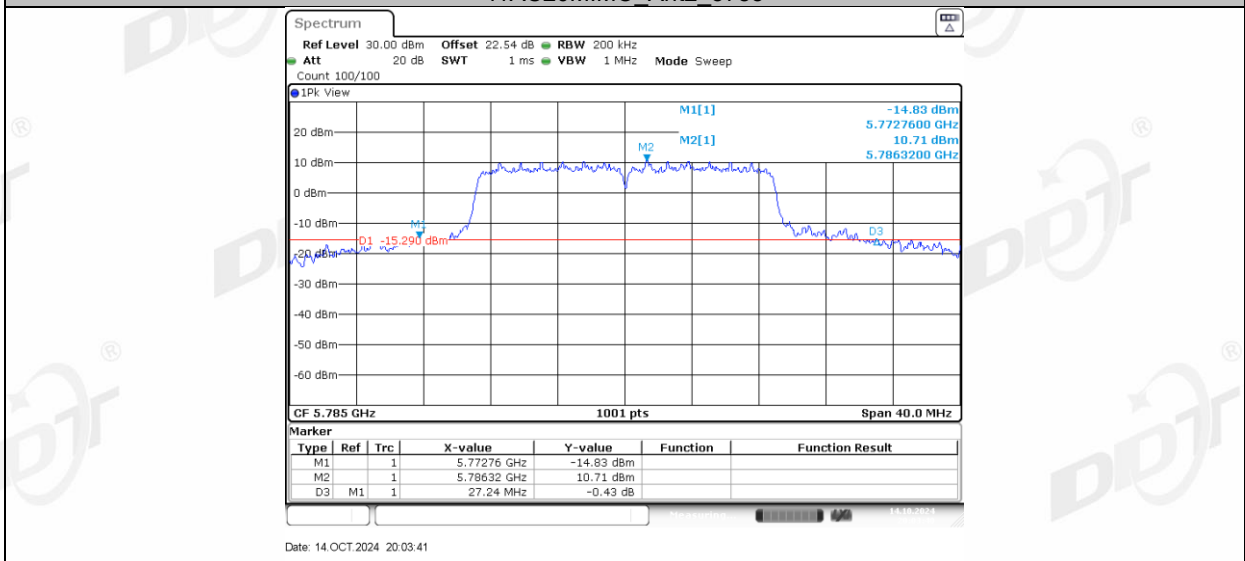




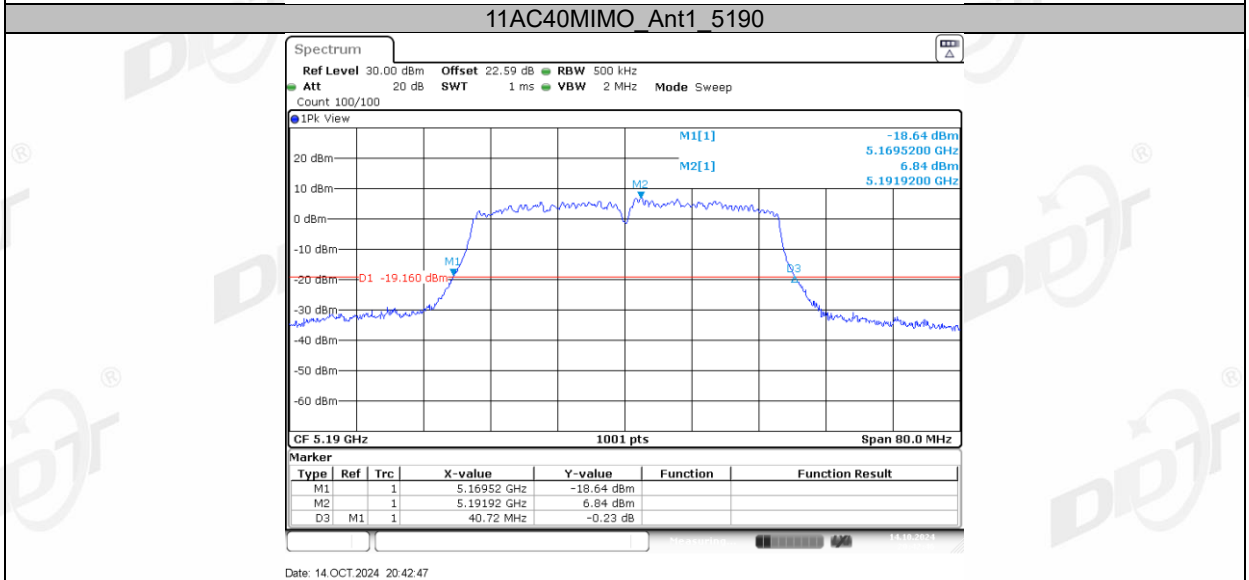
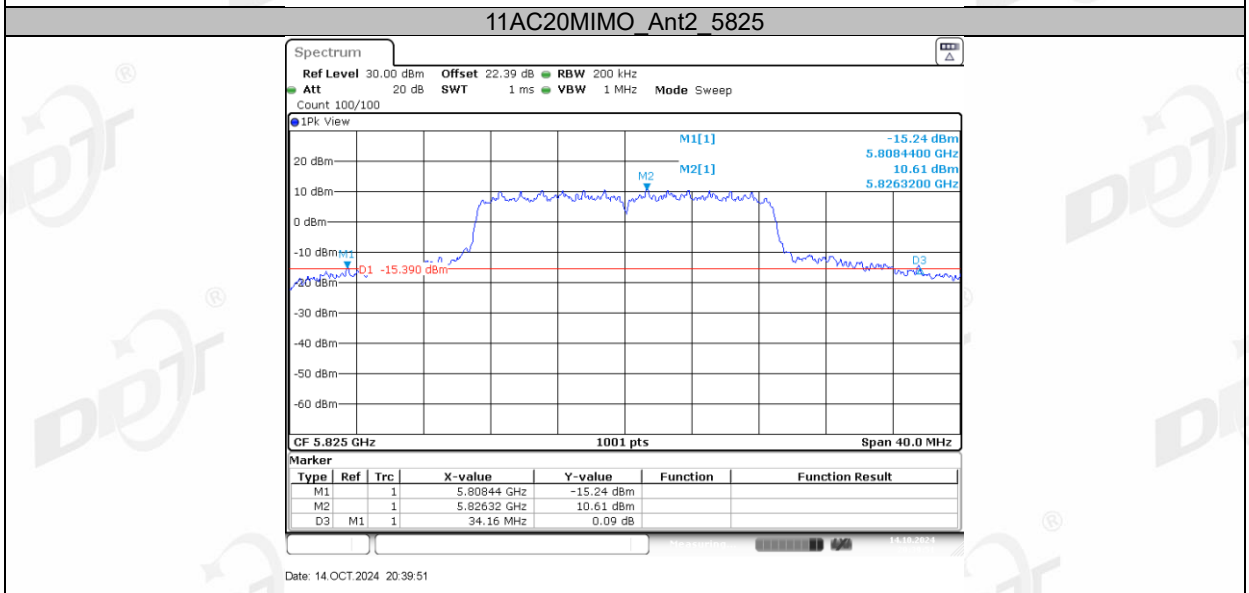
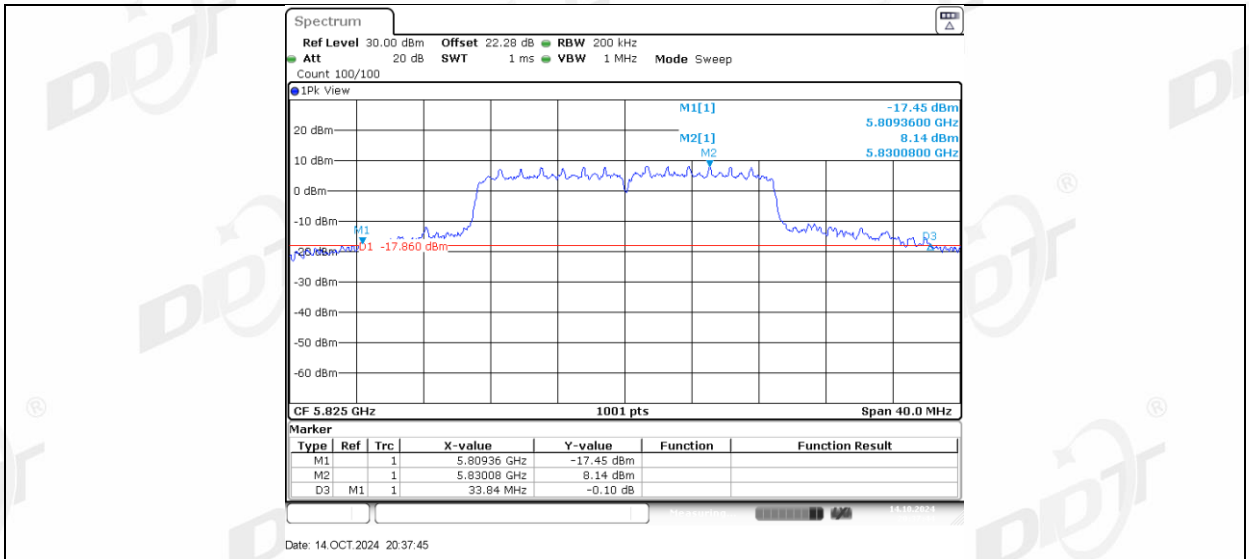
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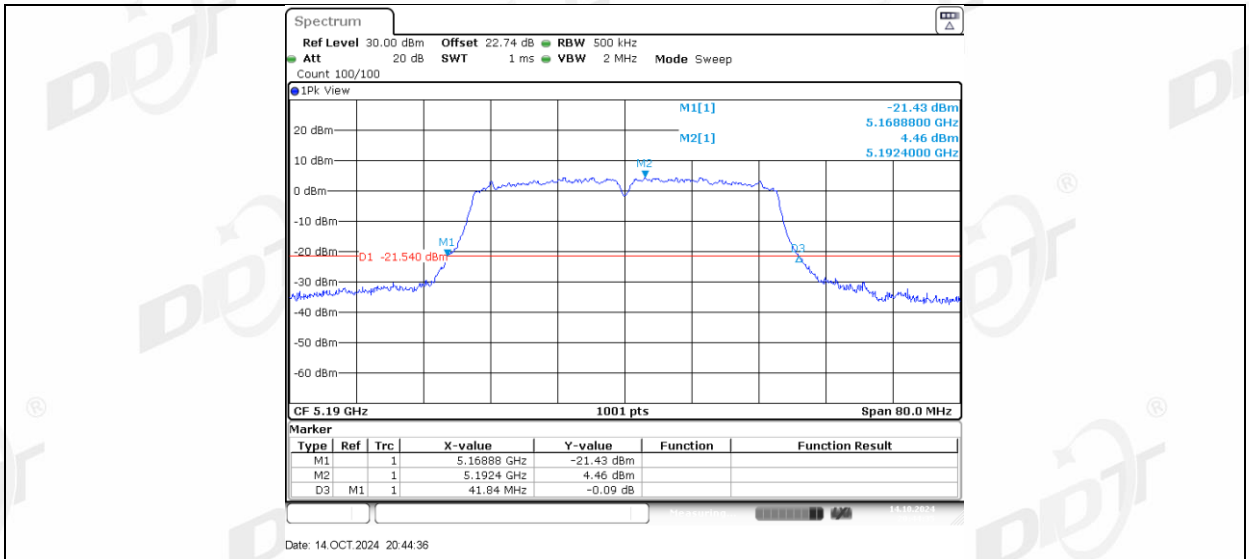


11AC20MIMO\_Ant2\_5785

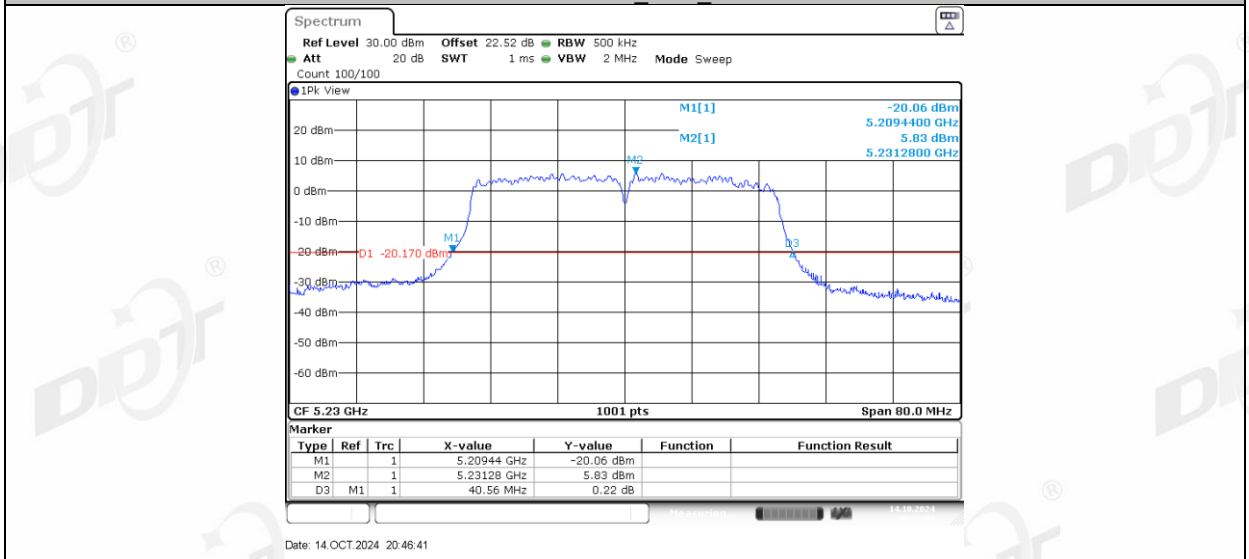


11AC20MIMO\_Ant1\_5825

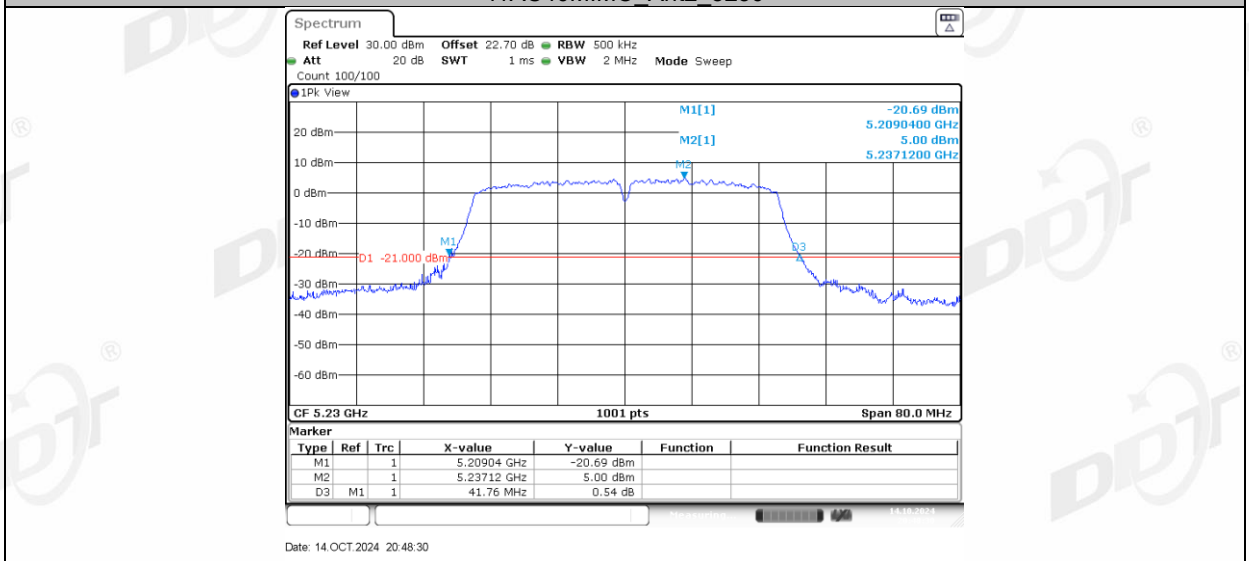




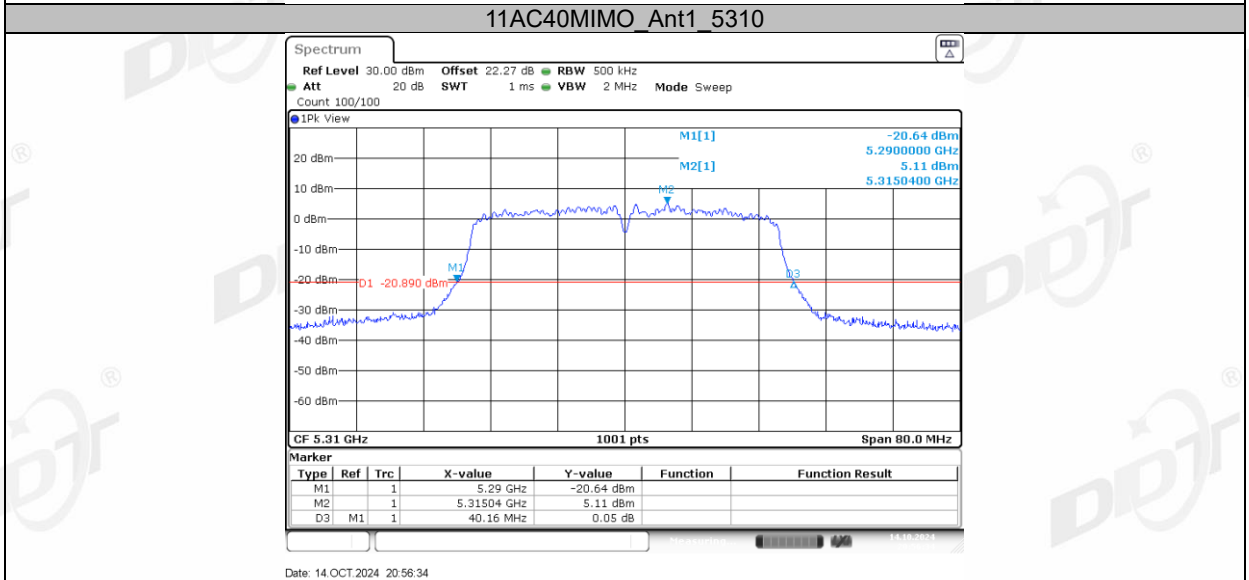
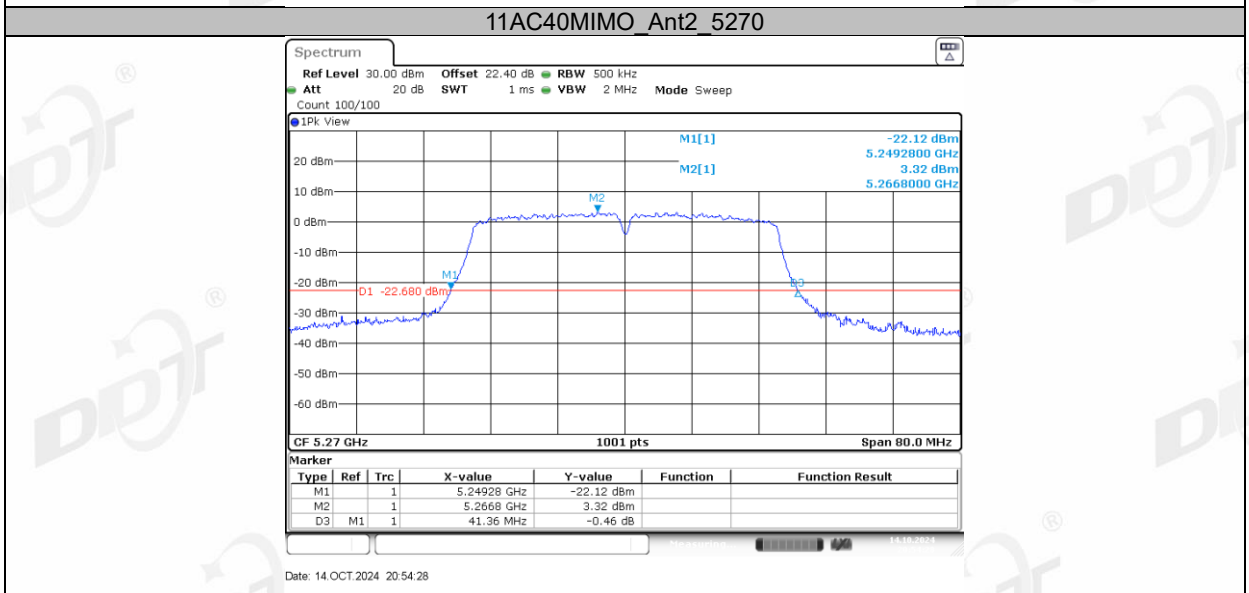
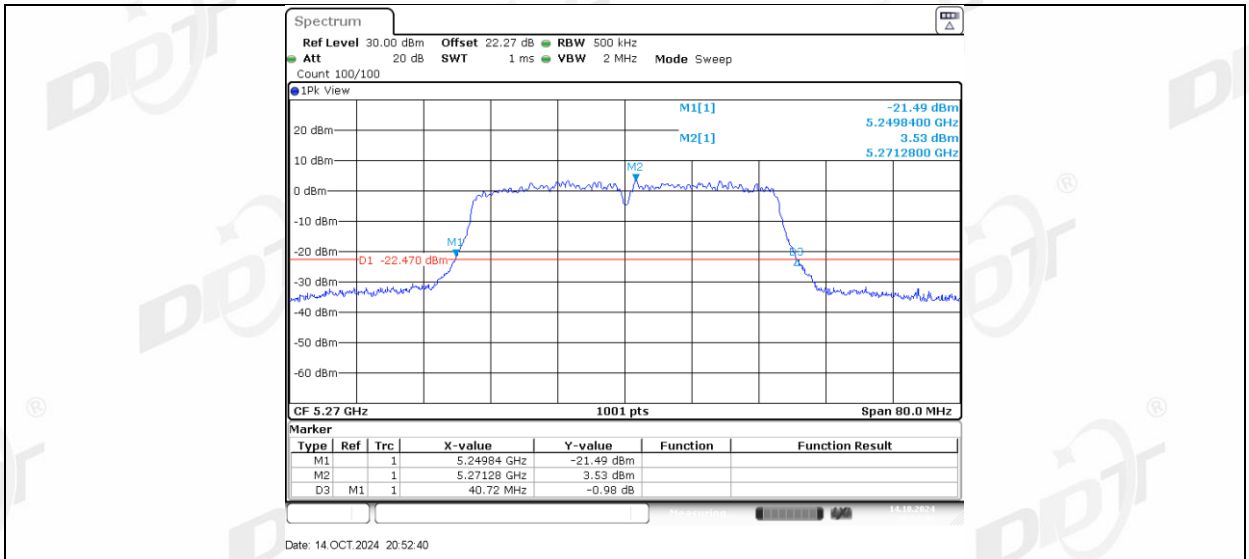
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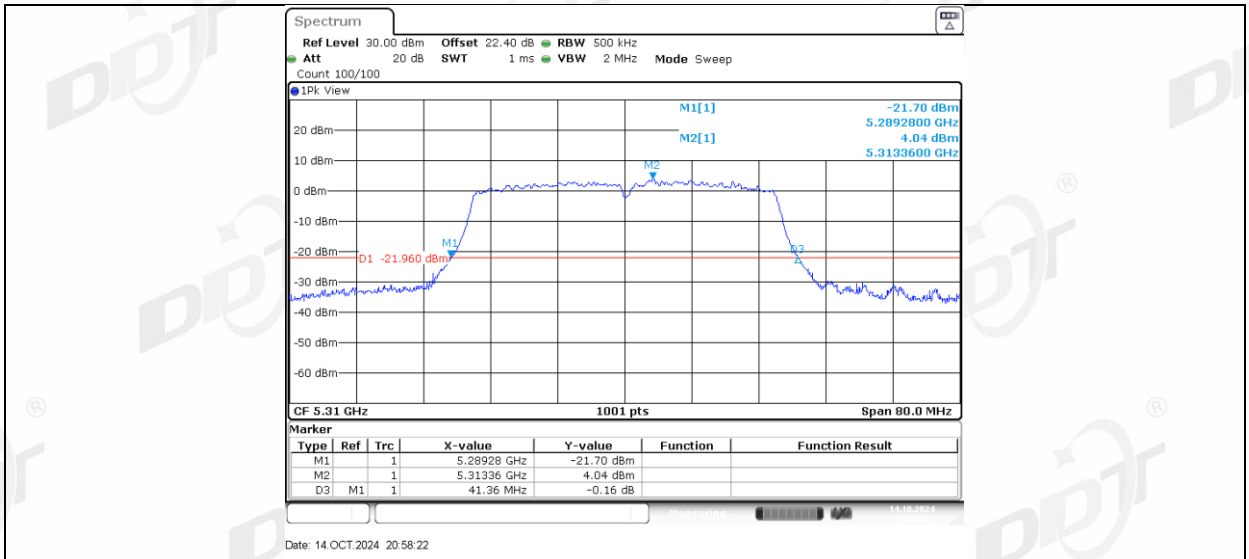


11AC40MIMO\_Ant2\_5230

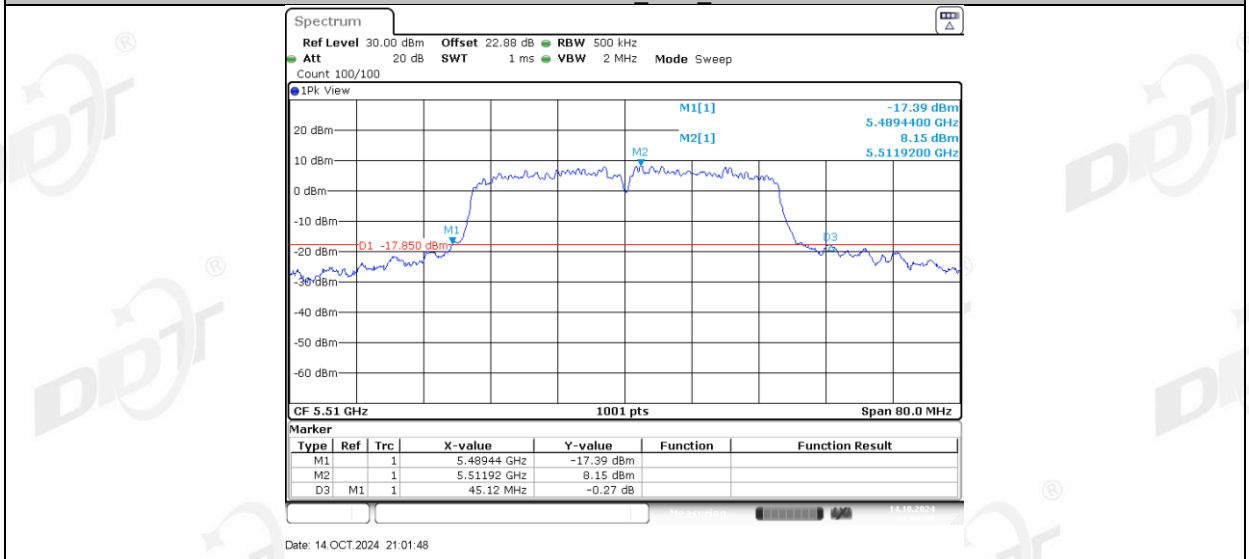


11AC40MIMO\_Ant1\_5270

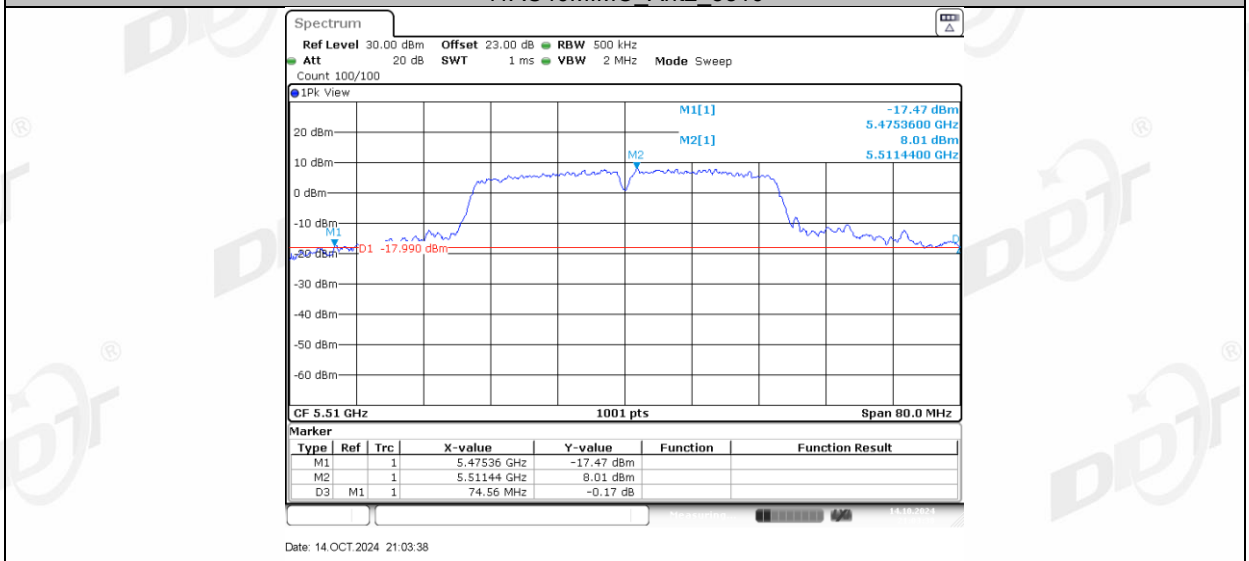




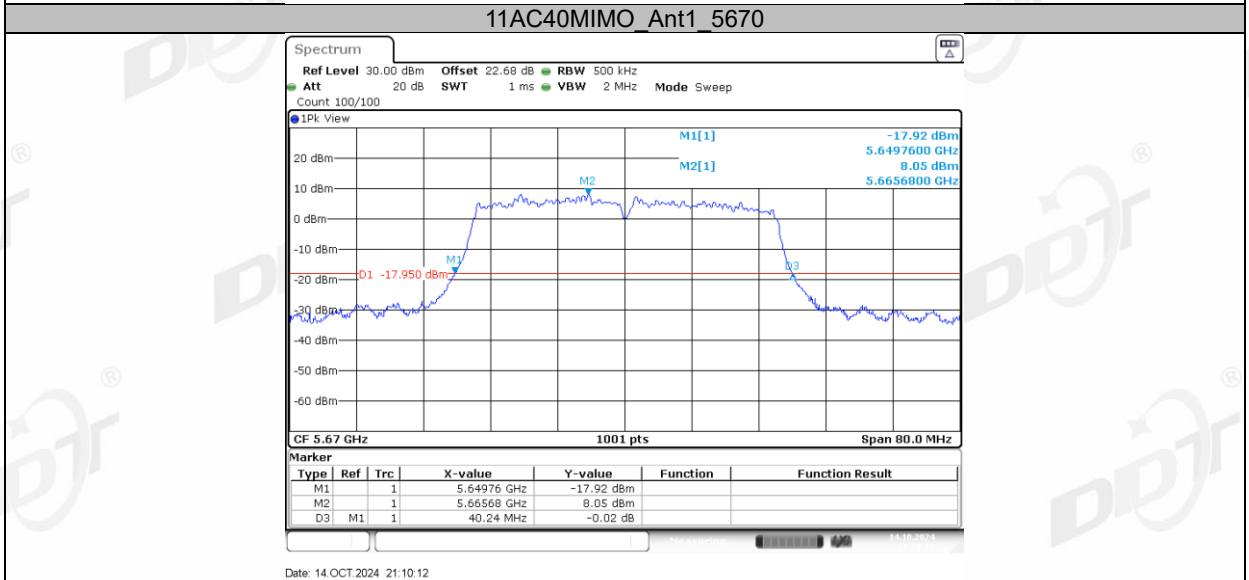
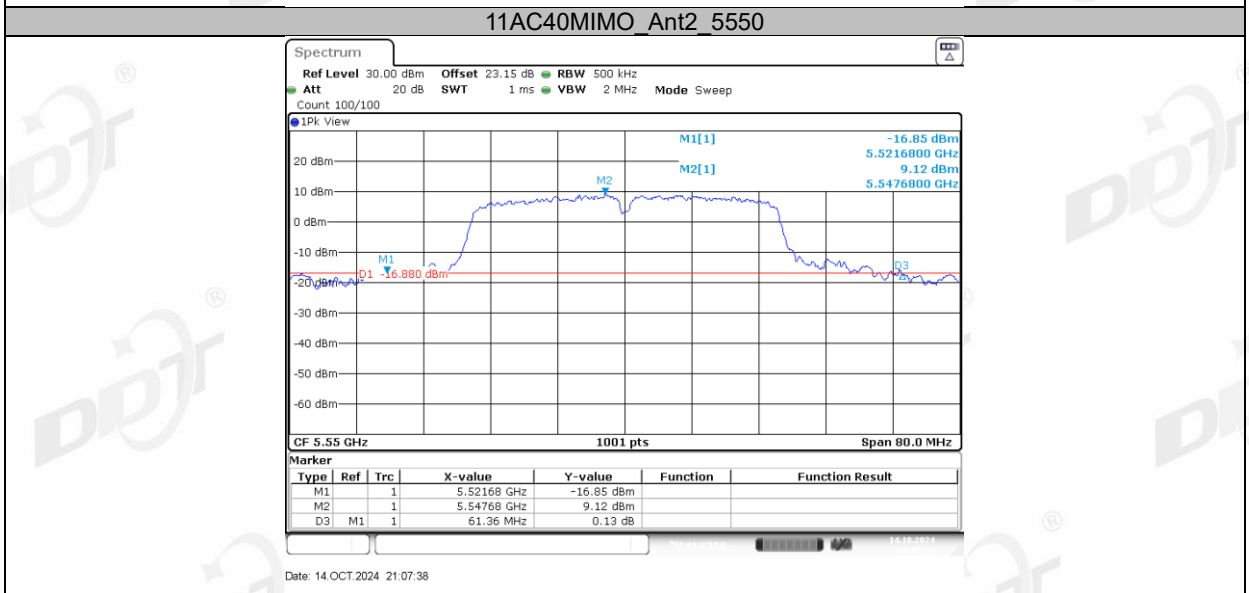
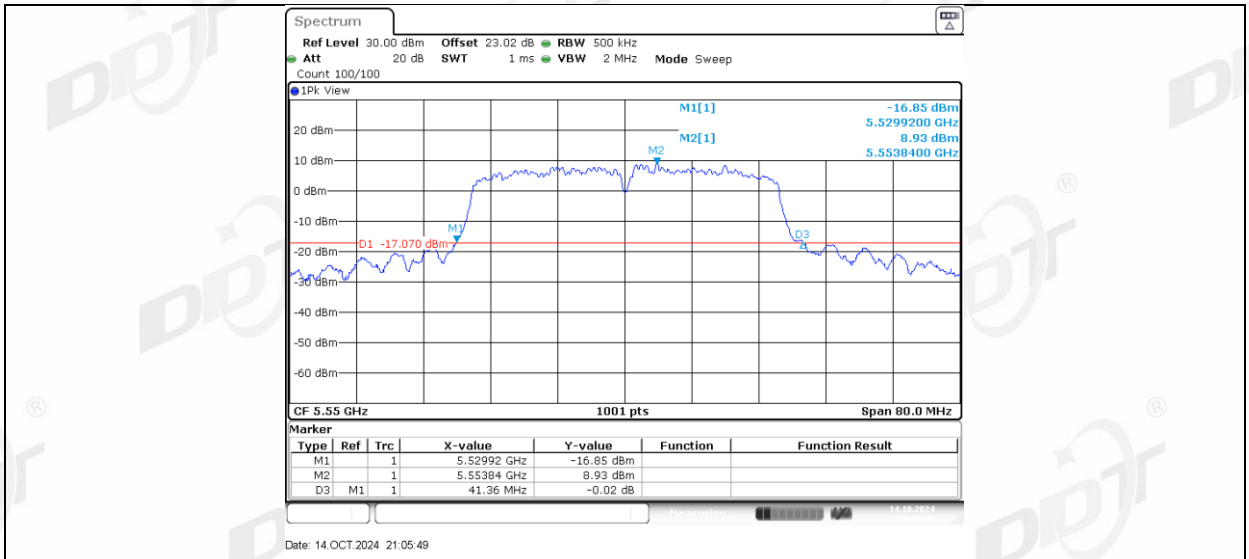
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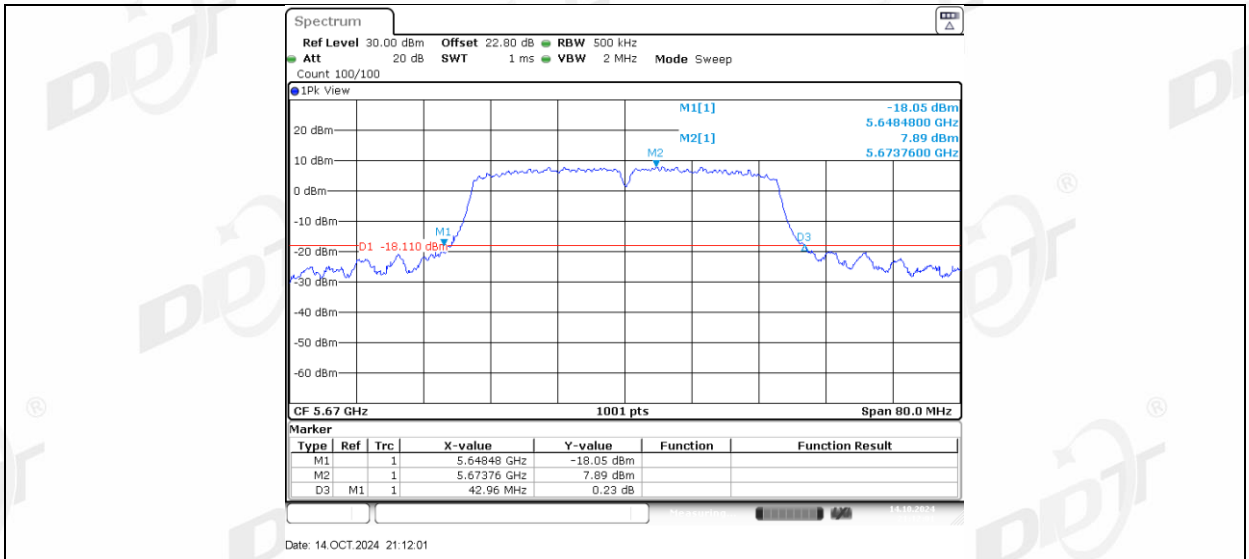
11AC40MIMO\_Ant2\_5510



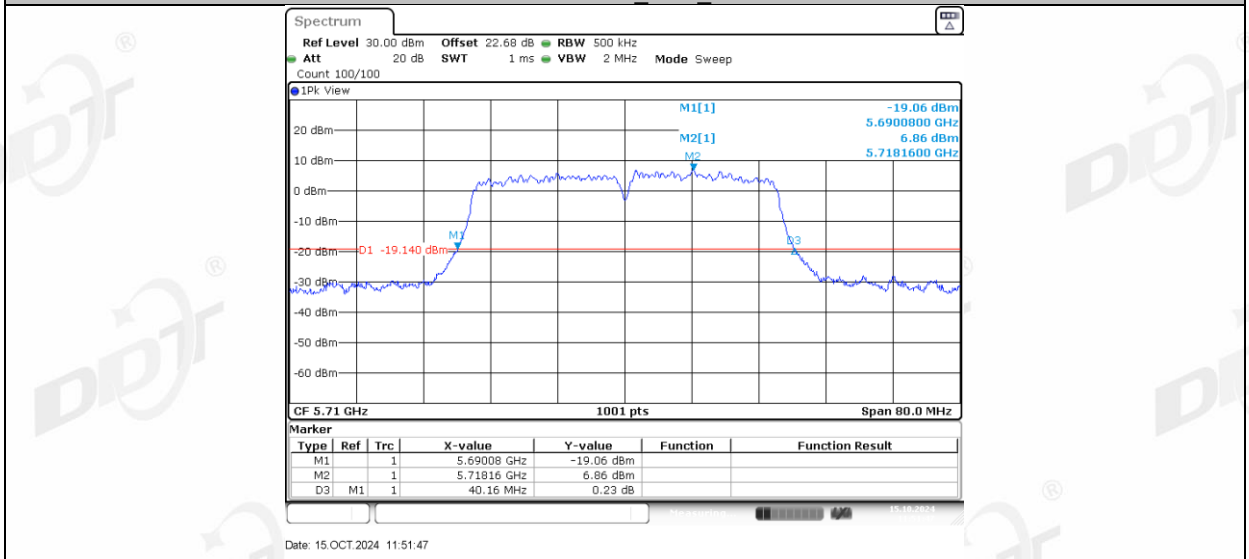
11AC40MIMO\_Ant1\_5550



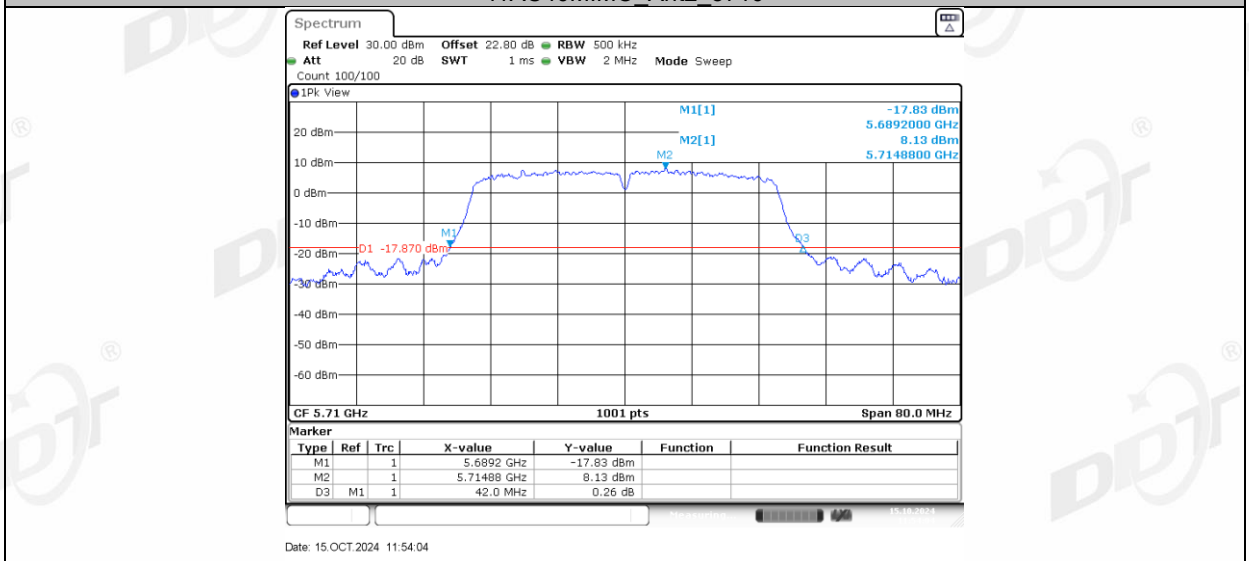




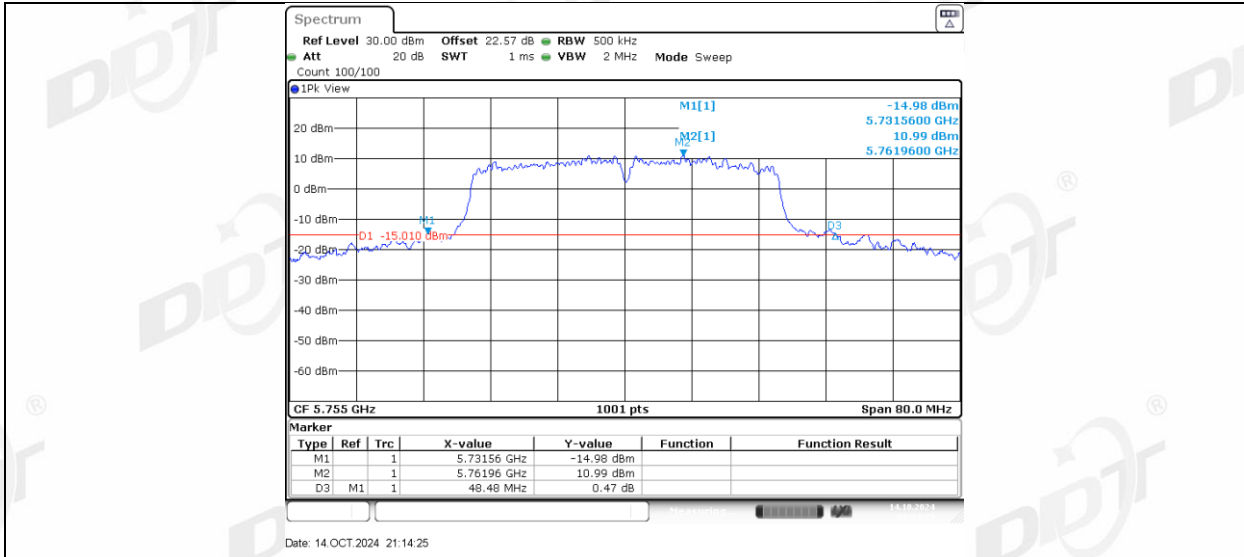
11AC40MIMO\_Ant1\_5710



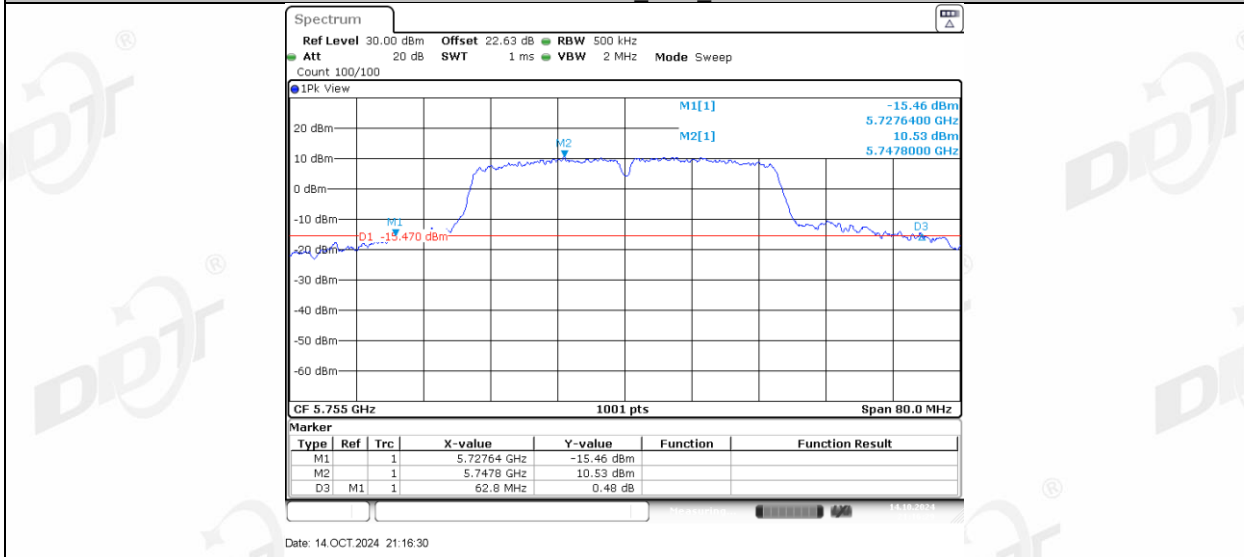
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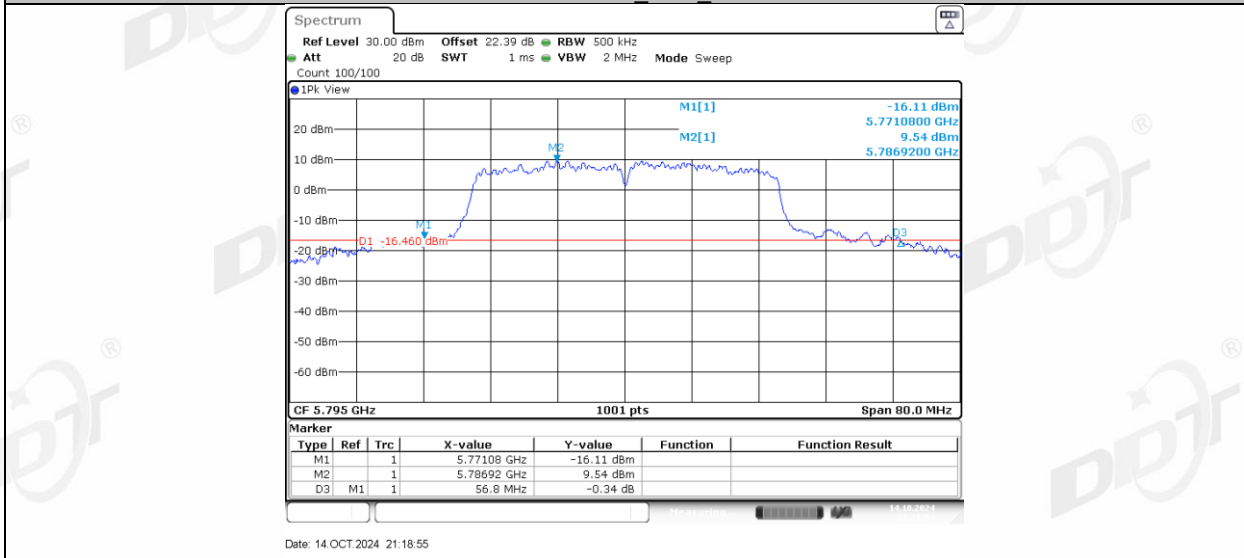
11AC40MIMO\_Ant1\_5755



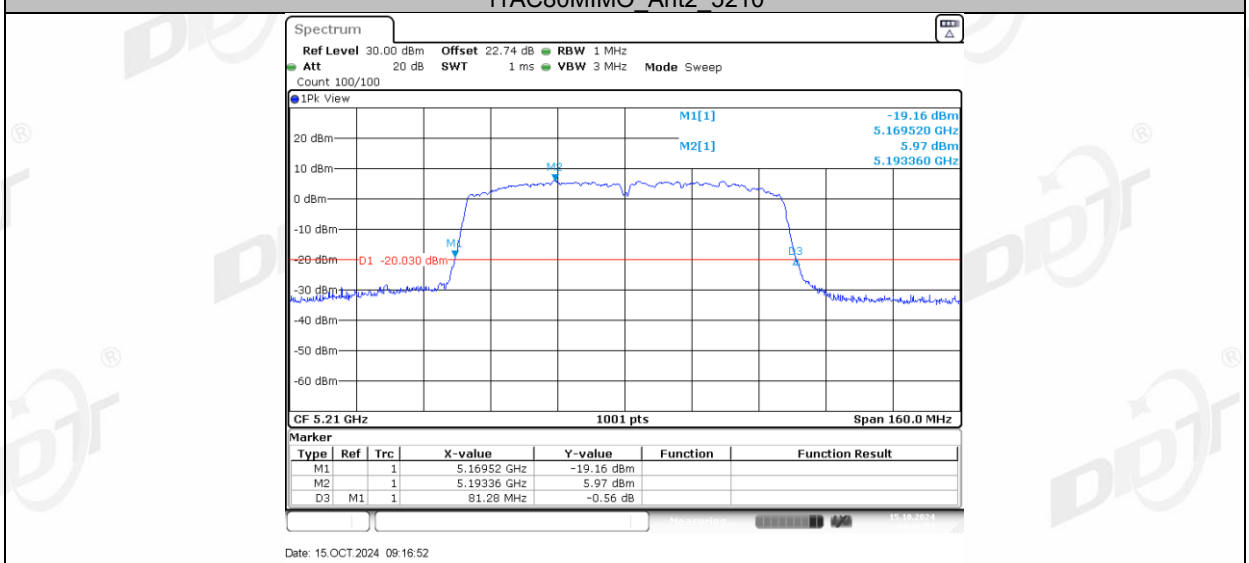
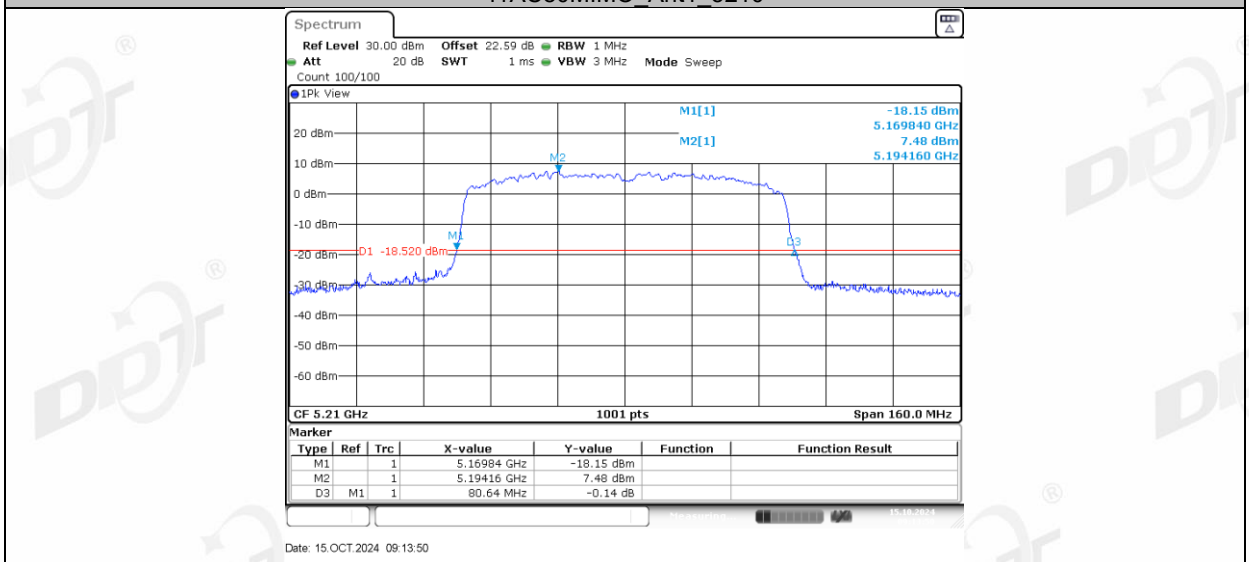
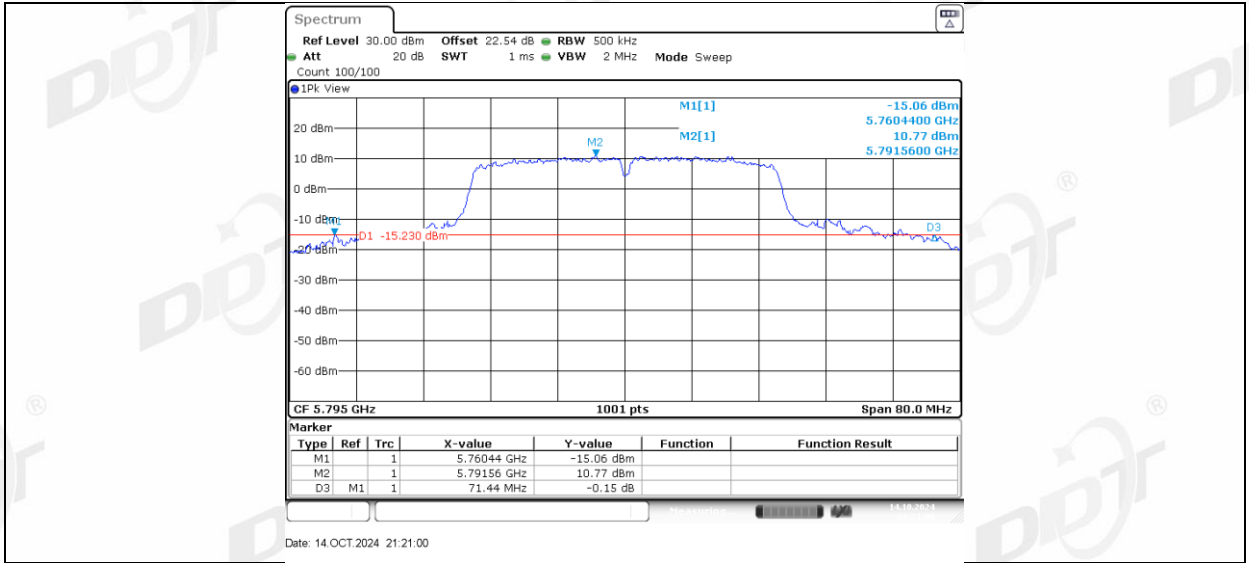
11AC40MIMO\_Ant2\_5755



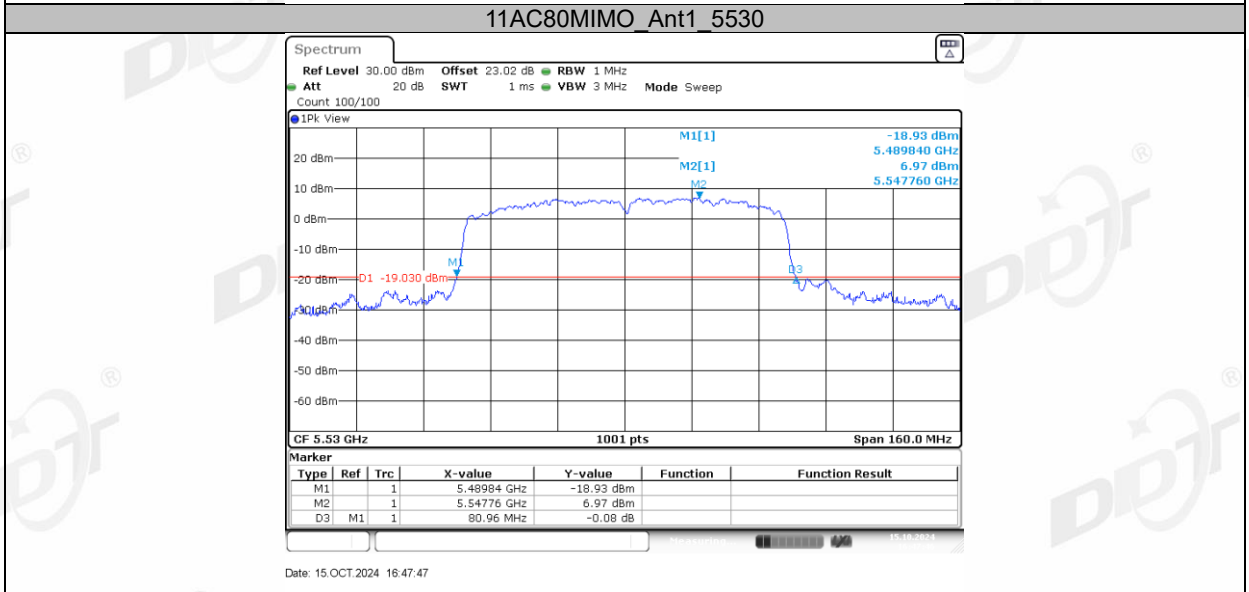
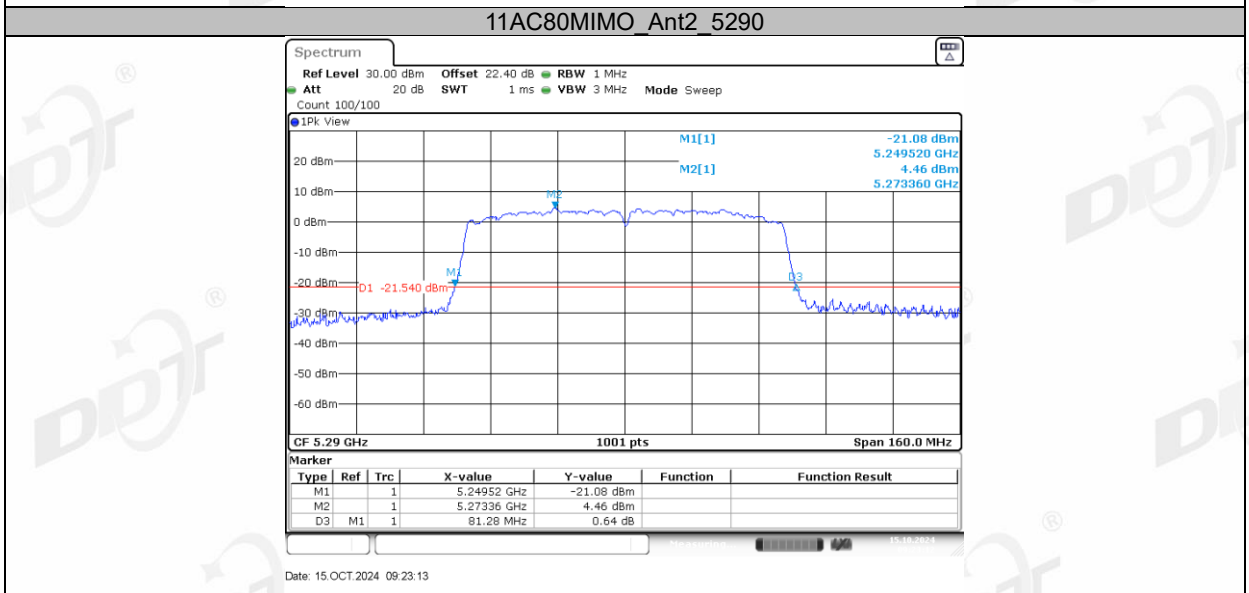
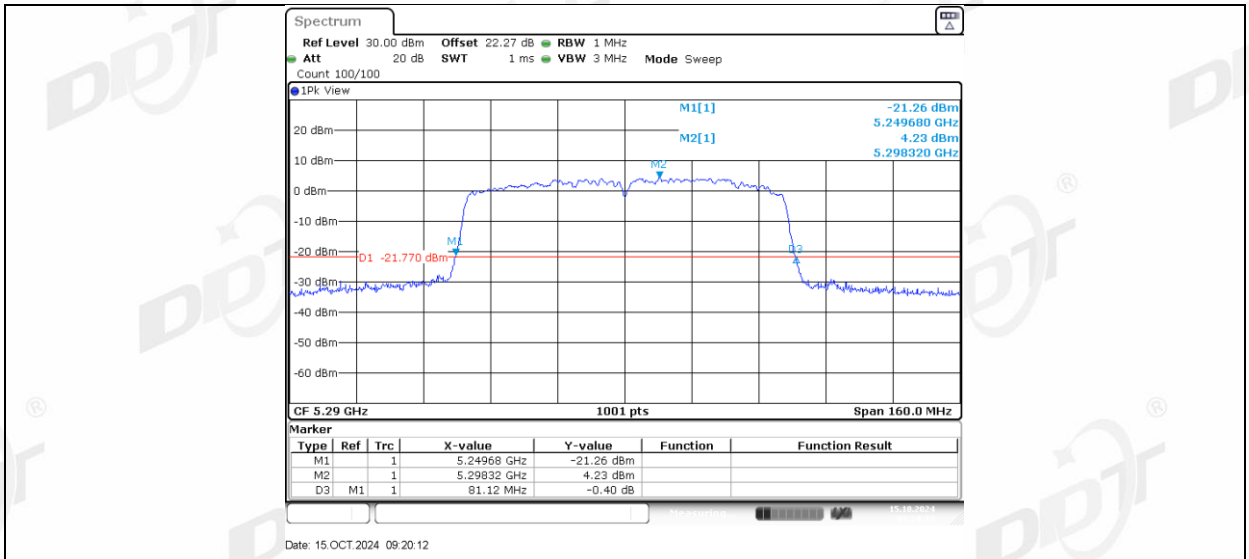
11AC40MIMO\_Ant1\_5795

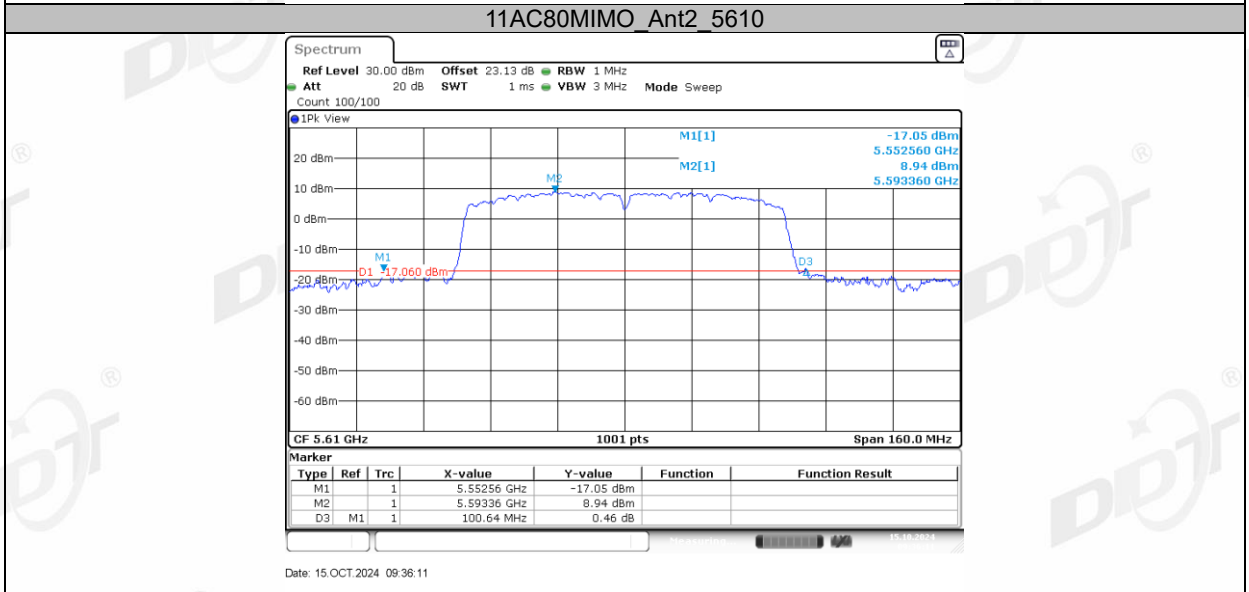
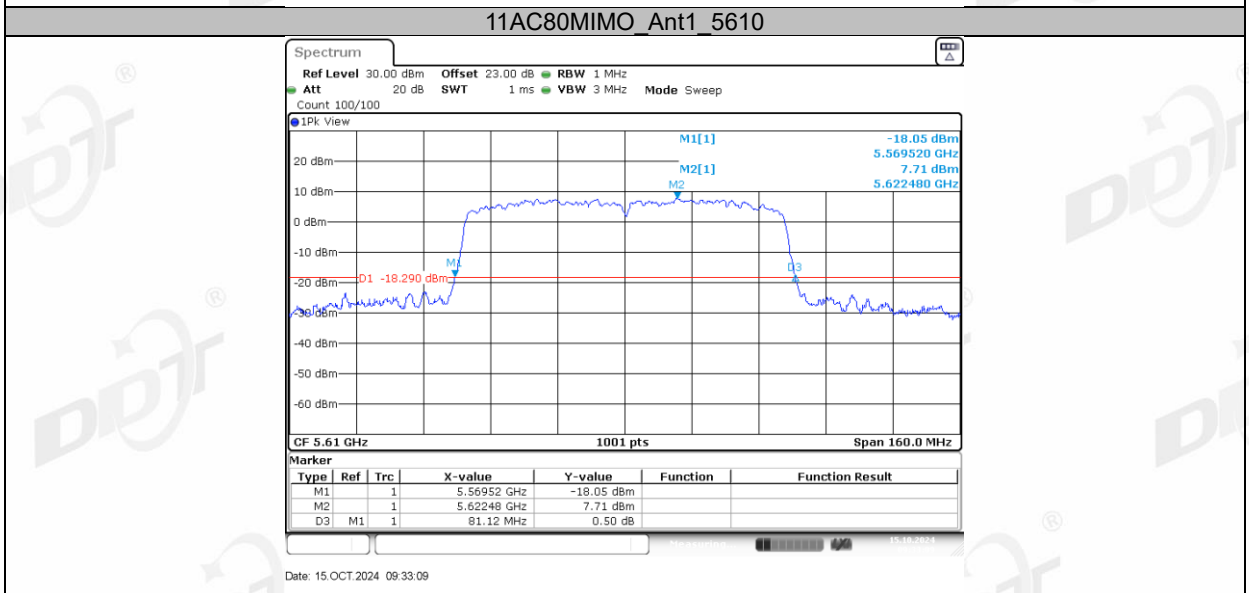
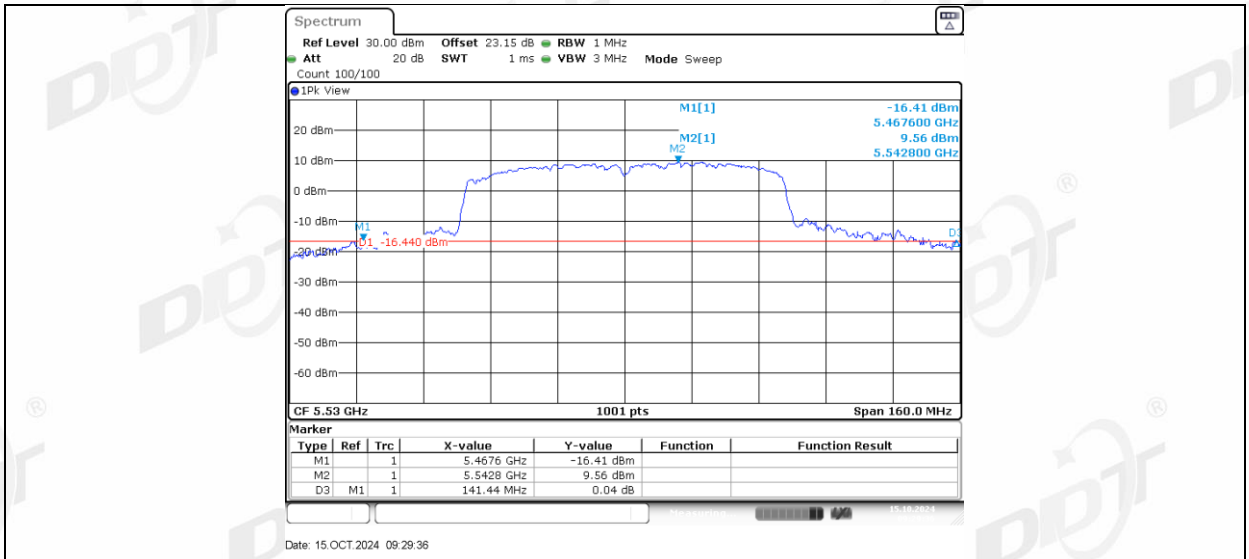


11AC40MIMO\_Ant2\_5795

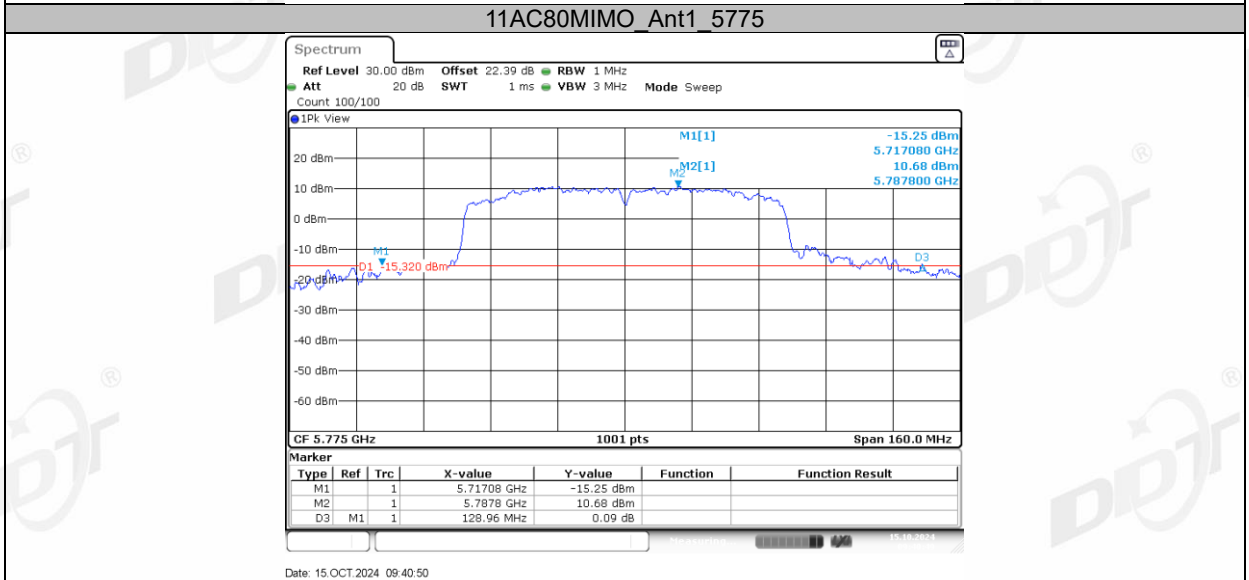
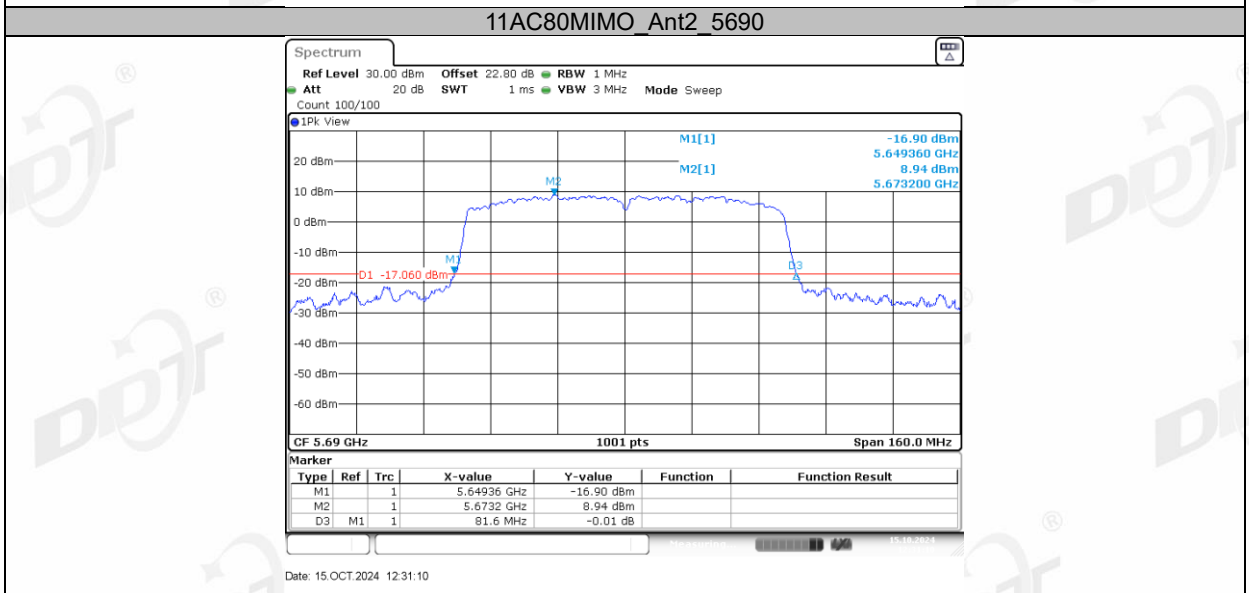
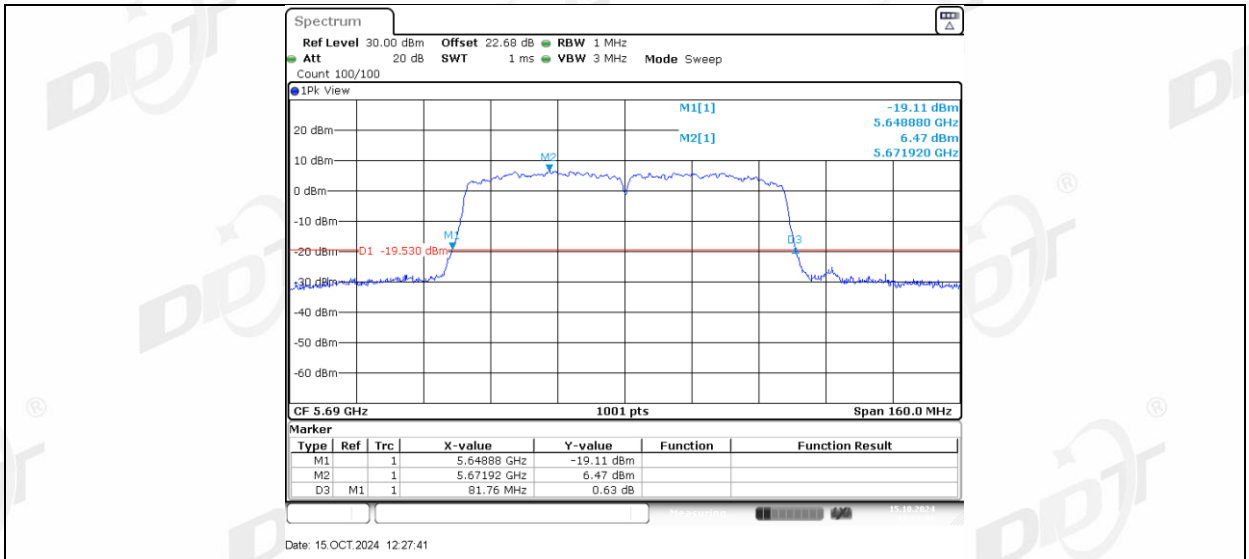


**11AC80MIMO\_Ant1\_5290**

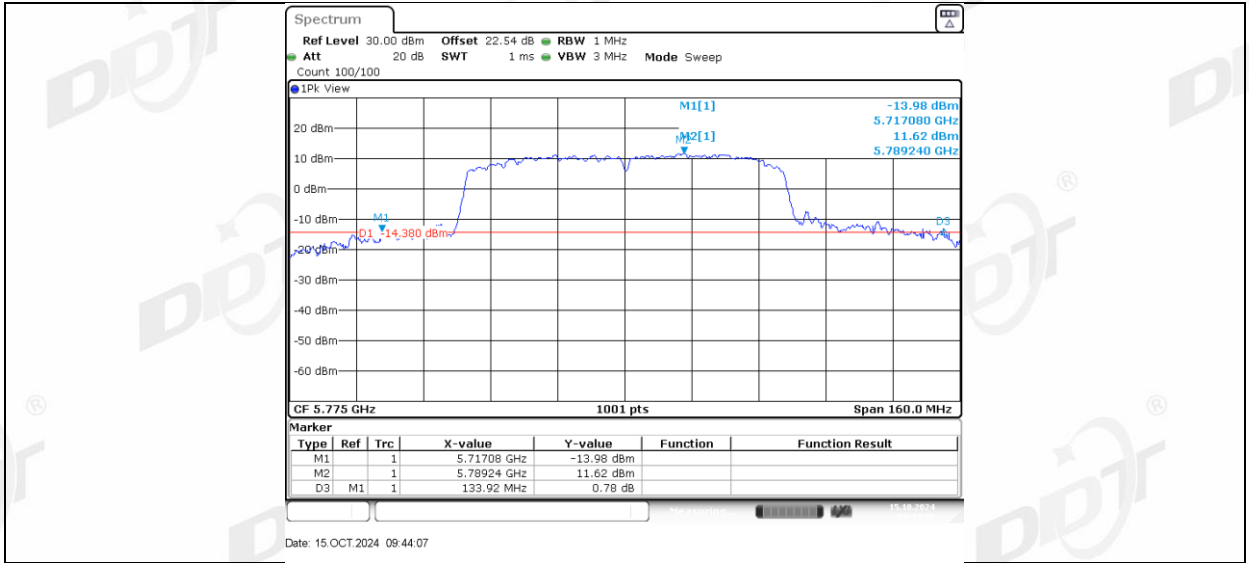




**11AC80MIMO\_Ant1\_5690**



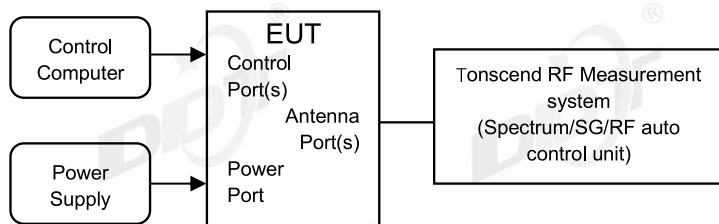
**11AC80MIMO\_Ant2\_5775**





## 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.

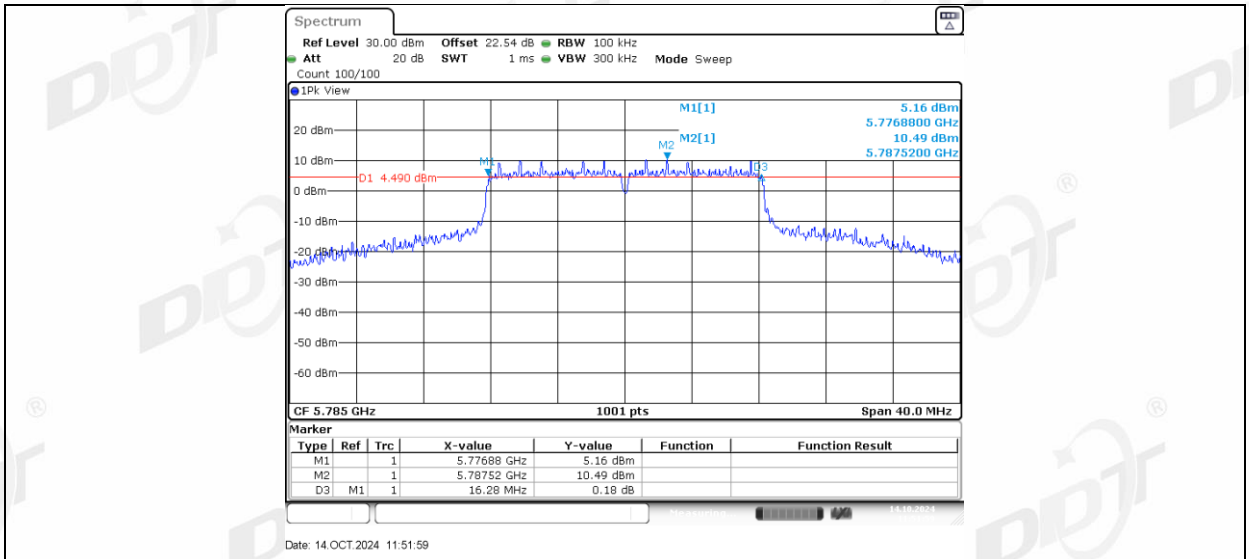
## 5.4. Test result B4

Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	26.4°C,46.9%RH	Test Date:	2024.10.12-2024.10.22
Test Power Supply:	DC 12V	Sample Number:	S24092008-001

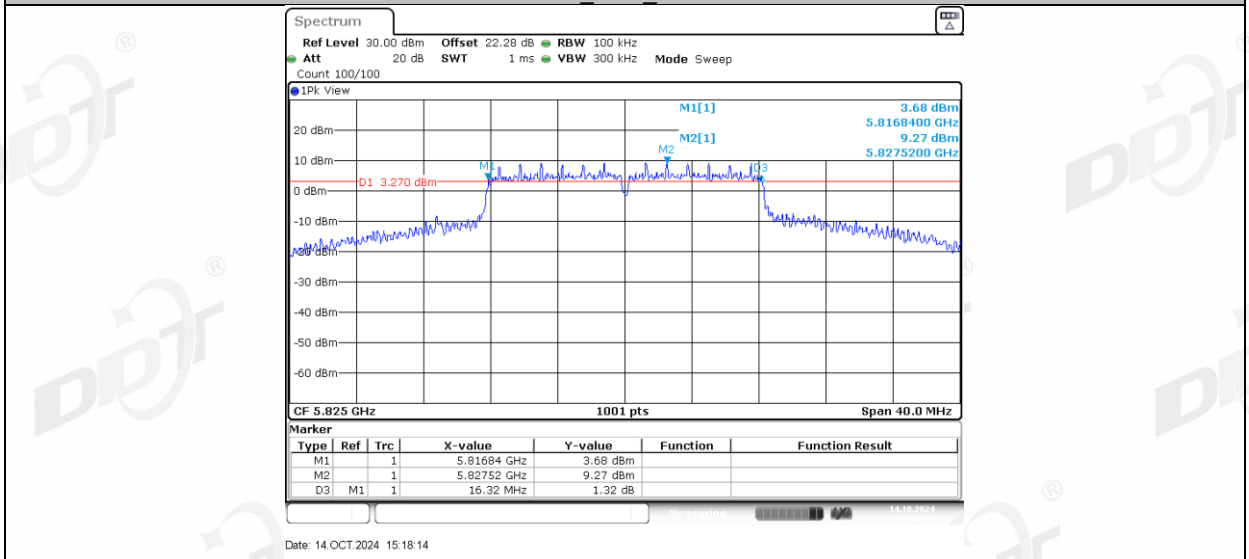
Test Mode	Antenna	Frequenc y[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.84	5753.20	0.5	PASS
	Ant2	5745	16.32	5736.88	5753.20	0.5	PASS
	Ant1	5785	16.28	5776.88	5793.16	0.5	PASS
	Ant2	5785	16.28	5776.88	5793.16	0.5	PASS
	Ant1	5825	16.32	5816.84	5833.16	0.5	PASS
	Ant2	5825	16.32	5816.84	5833.16	0.5	PASS
11N20MIM O	Ant1	5745	16.92	5736.64	5753.56	0.5	PASS
	Ant2	5745	17.28	5736.52	5753.80	0.5	PASS
	Ant1	5785	17.56	5776.28	5793.84	0.5	PASS
	Ant2	5785	17.56	5776.28	5793.84	0.5	PASS
	Ant1	5825	17.16	5816.28	5833.44	0.5	PASS
	Ant2	5825	17.52	5816.28	5833.80	0.5	PASS
11N40MIM O	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant2	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant1	5795	35.12	5777.48	5812.60	0.5	PASS
	Ant2	5795	35.12	5777.48	5812.60	0.5	PASS
11AC20MI MO	Ant1	5745	17.52	5736.28	5753.80	0.5	PASS
	Ant2	5745	17.16	5736.64	5753.80	0.5	PASS
	Ant1	5785	17.60	5776.24	5793.84	0.5	PASS
	Ant2	5785	17.16	5776.64	5793.80	0.5	PASS
	Ant1	5825	17.52	5816.28	5833.80	0.5	PASS
	Ant2	5825	17.52	5816.28	5833.80	0.5	PASS
11AC40MI MO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant2	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant1	5795	35.12	5777.48	5812.60	0.5	PASS
	Ant2	5795	35.12	5777.48	5812.60	0.5	PASS
11AC80MI MO	Ant1	5775	75.04	5737.56	5812.60	0.5	PASS
	Ant2	5775	73.92	5738.68	5812.60	0.5	PASS

5.5. Test graphs B4

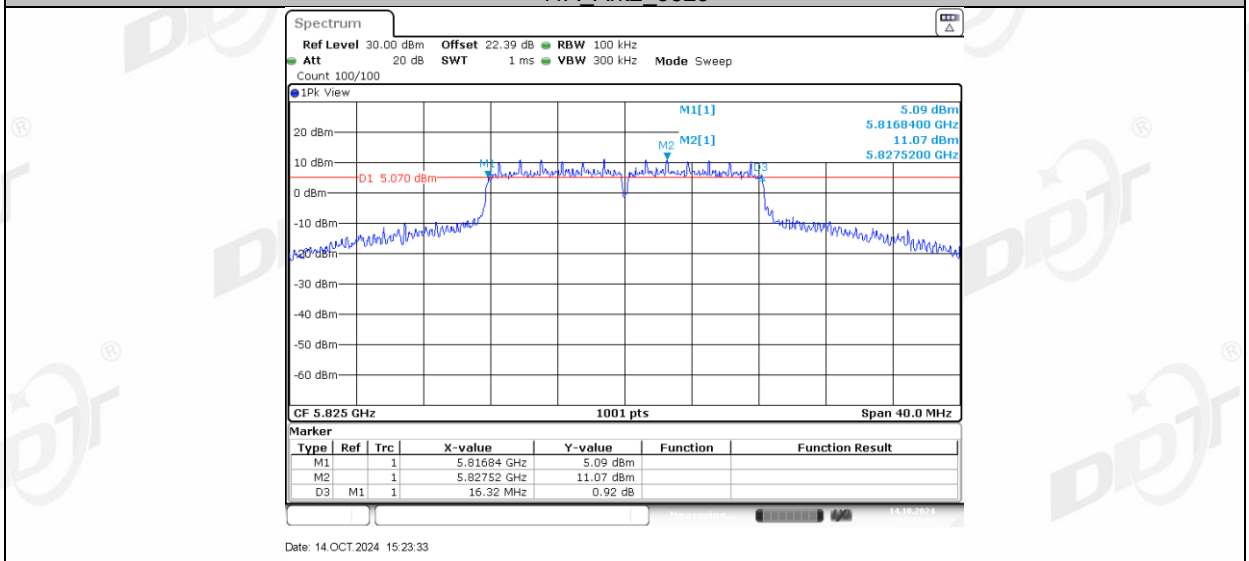




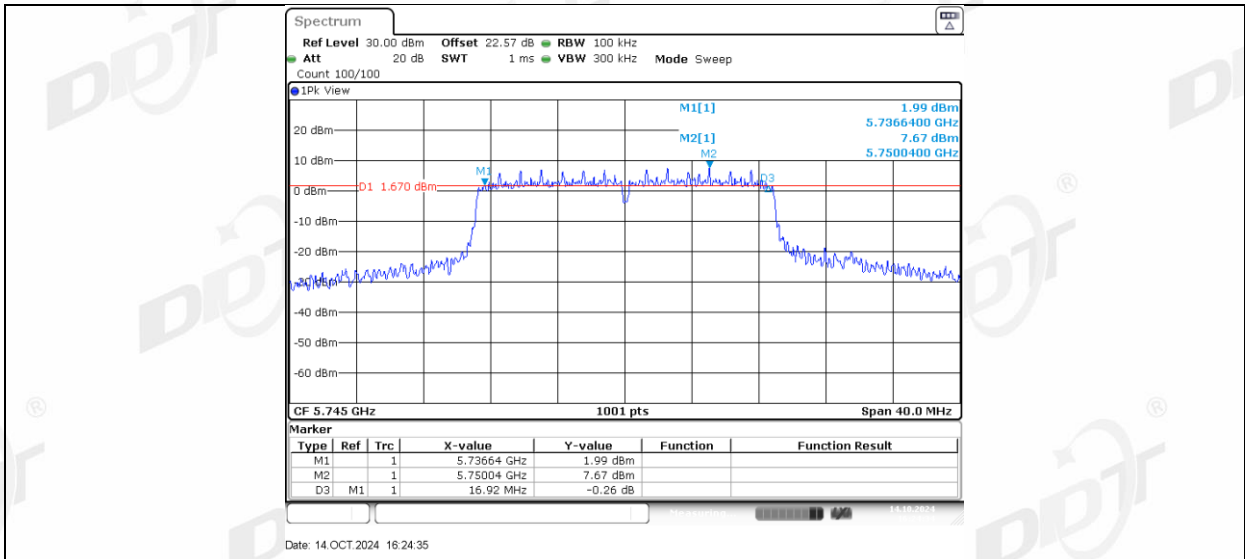
11A\_Ant1\_5825



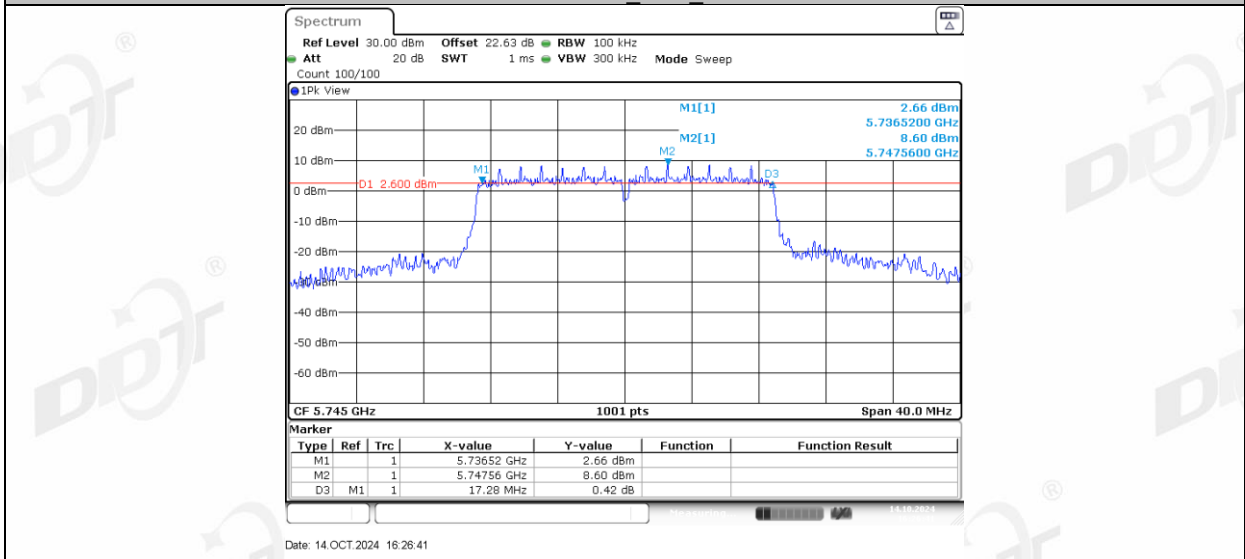
11A\_Ant2\_5825



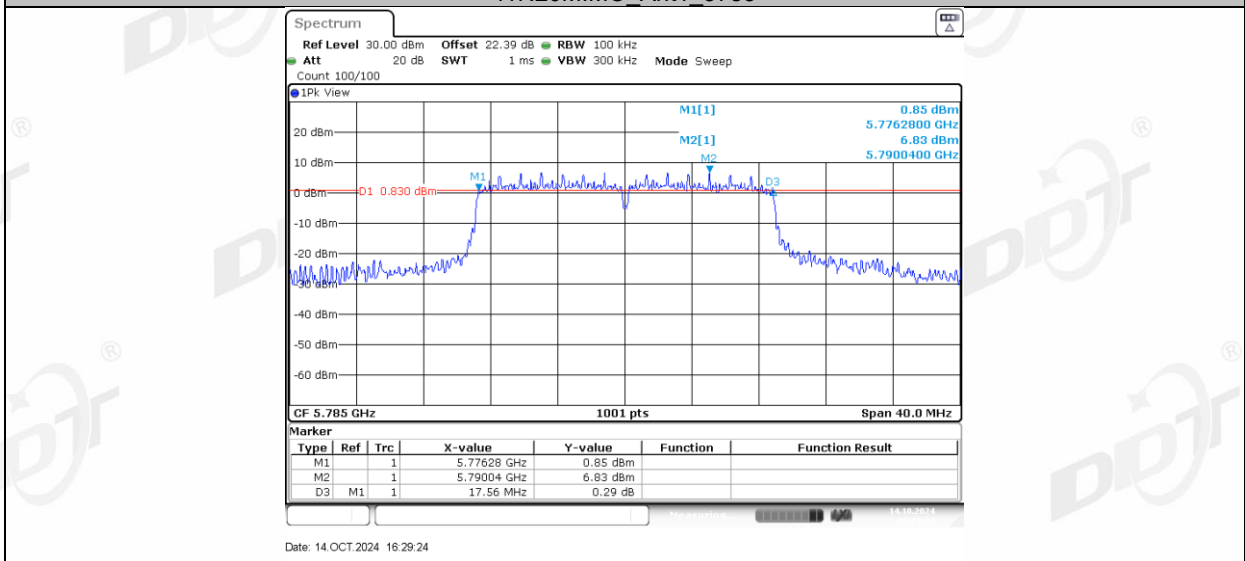
11N20MIMO\_Ant1\_5745



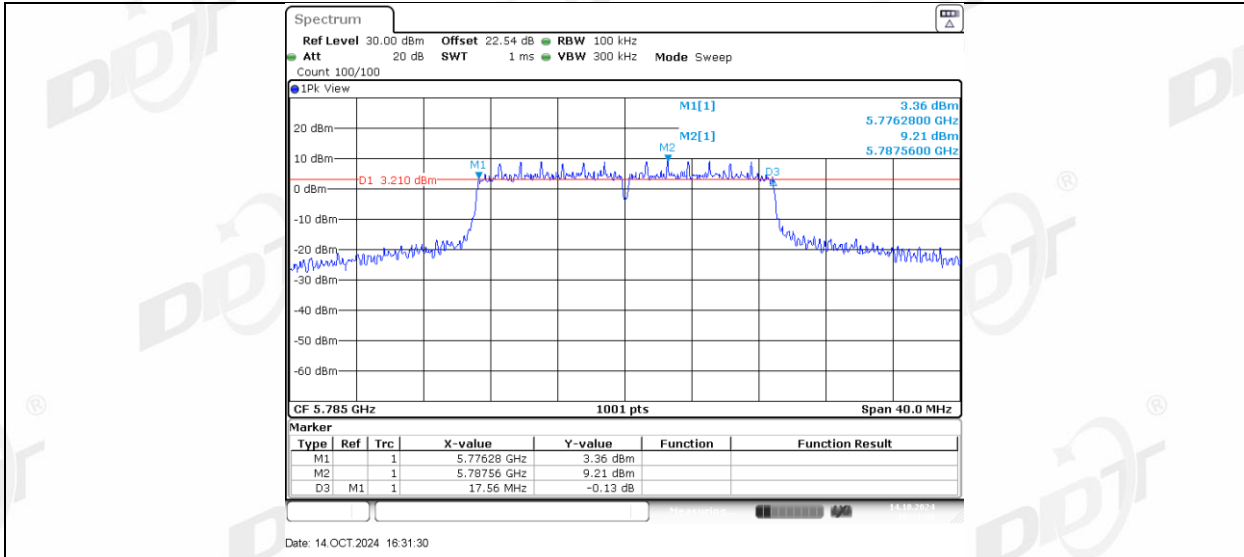
11N20MIMO\_Ant2\_5745



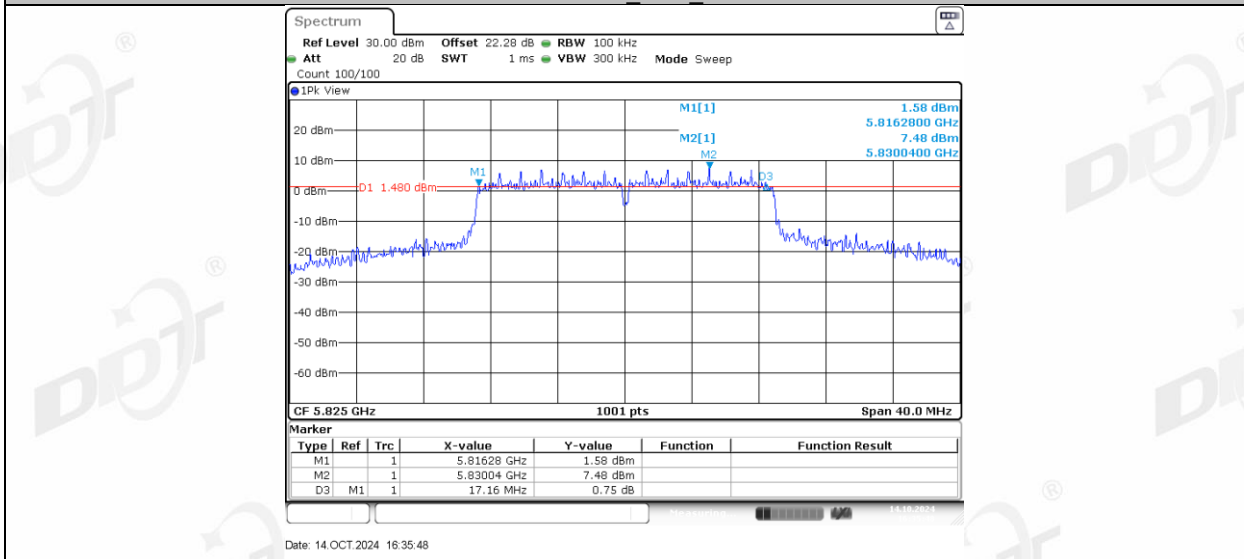
11N20MIMO\_Ant1\_5785



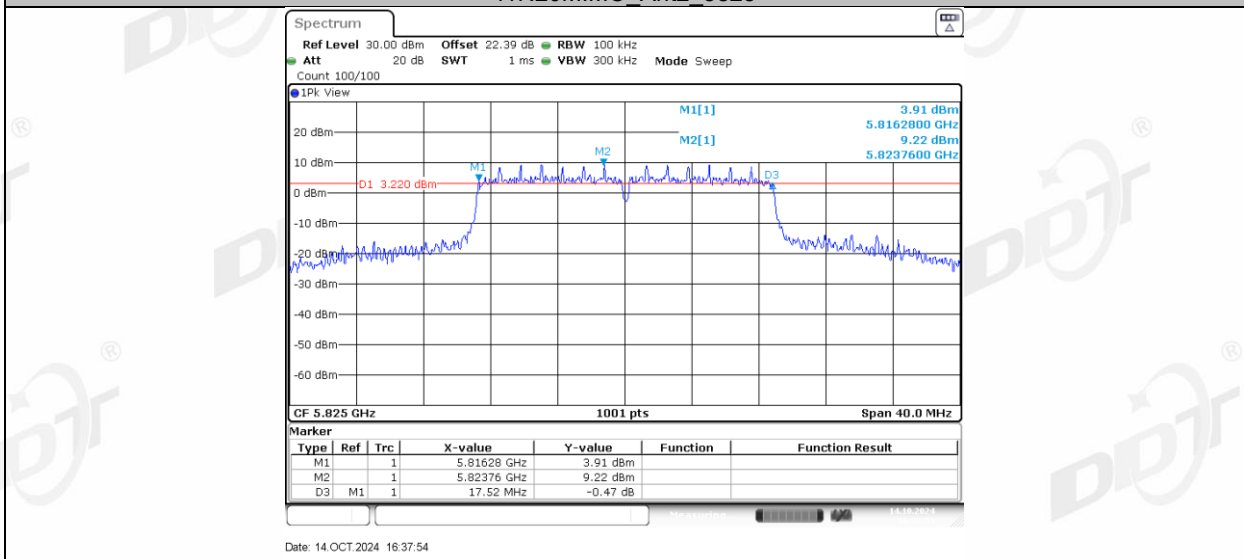
11N20MIMO\_Ant2\_5785



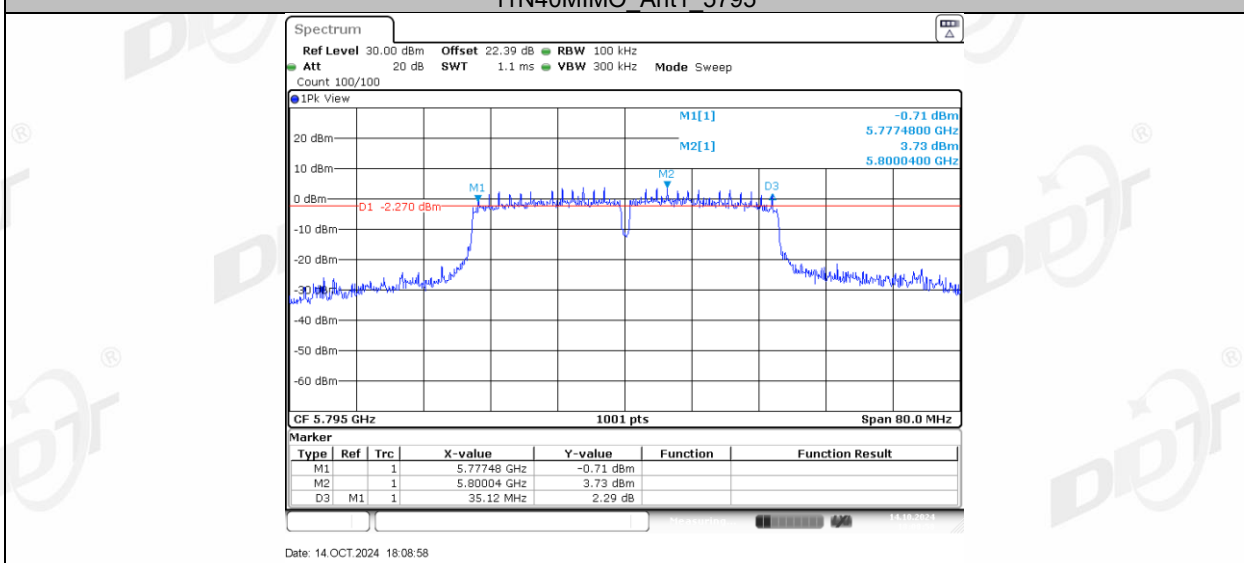
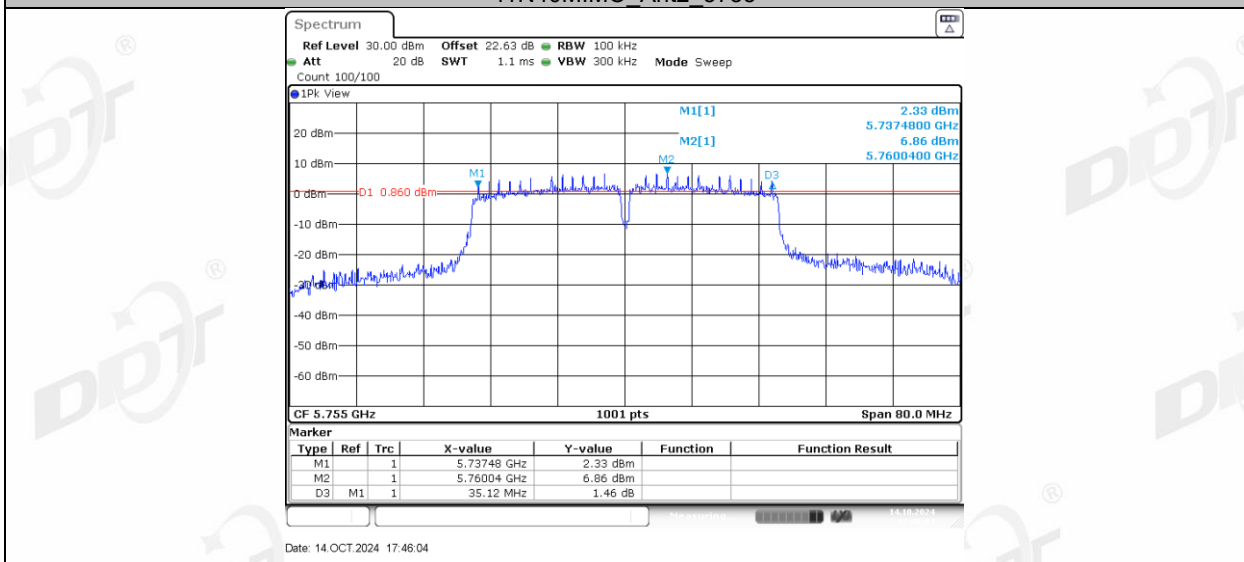
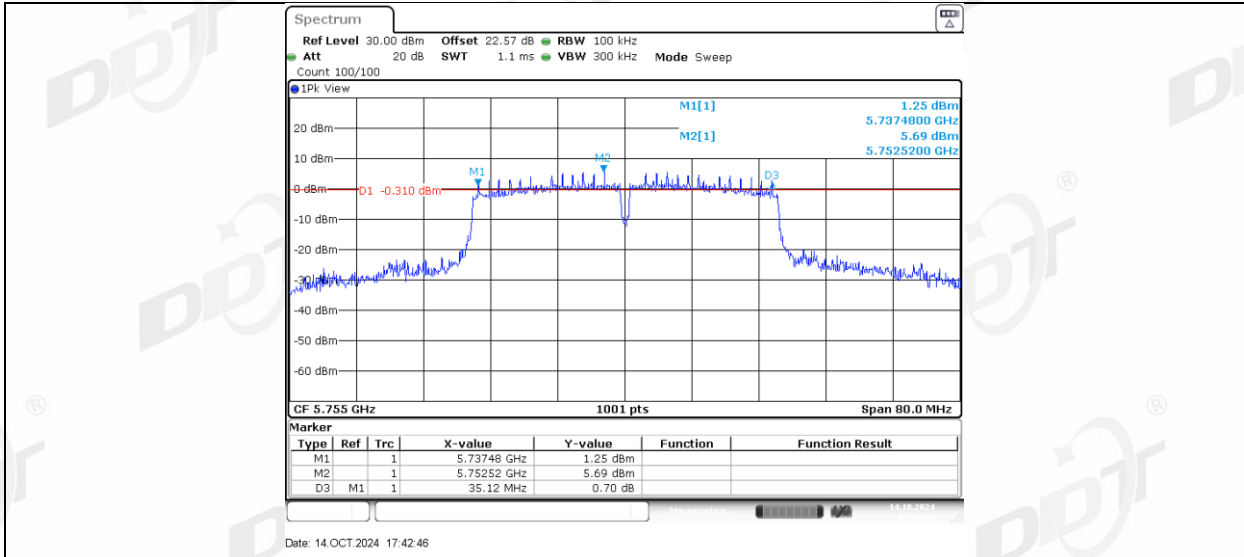
11N20MIMO\_Ant1\_5825



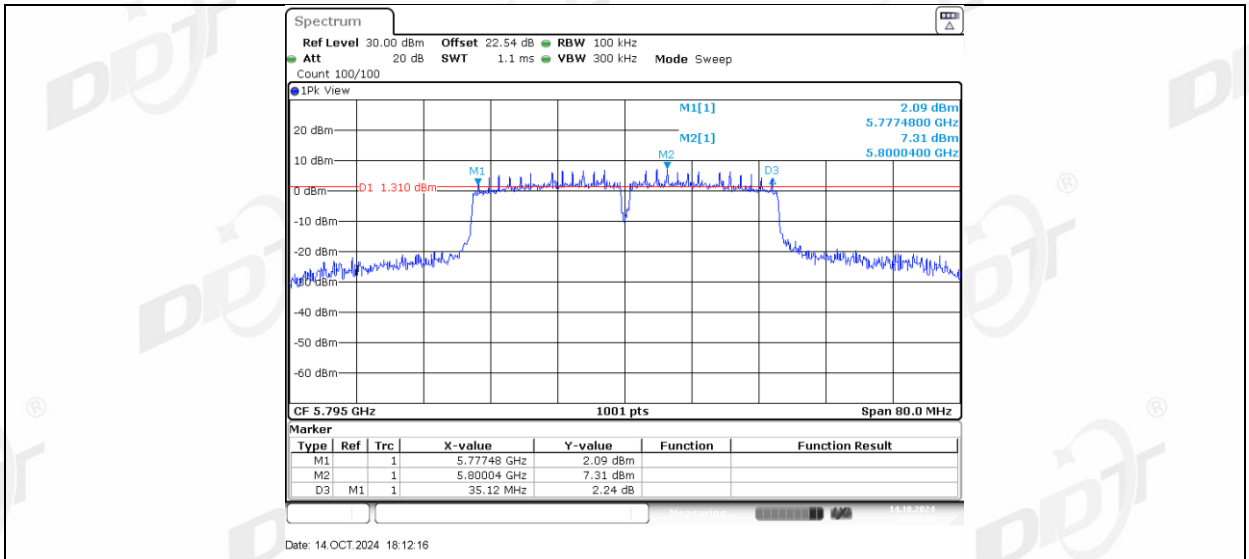
11N20MIMO\_Ant2\_5825



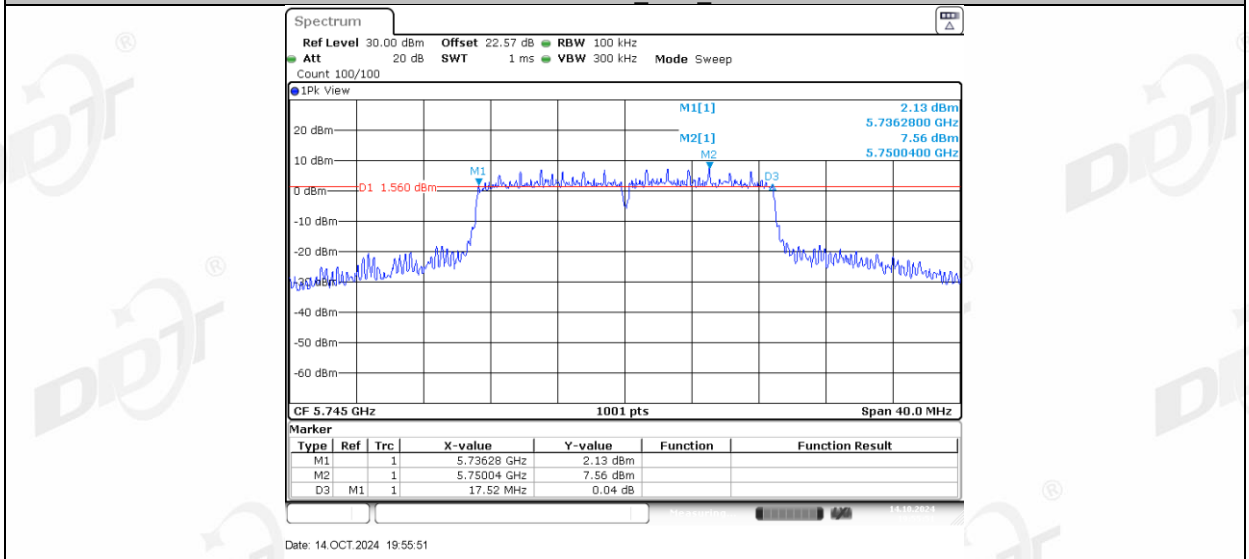
11N40MIMO\_Ant1\_5755



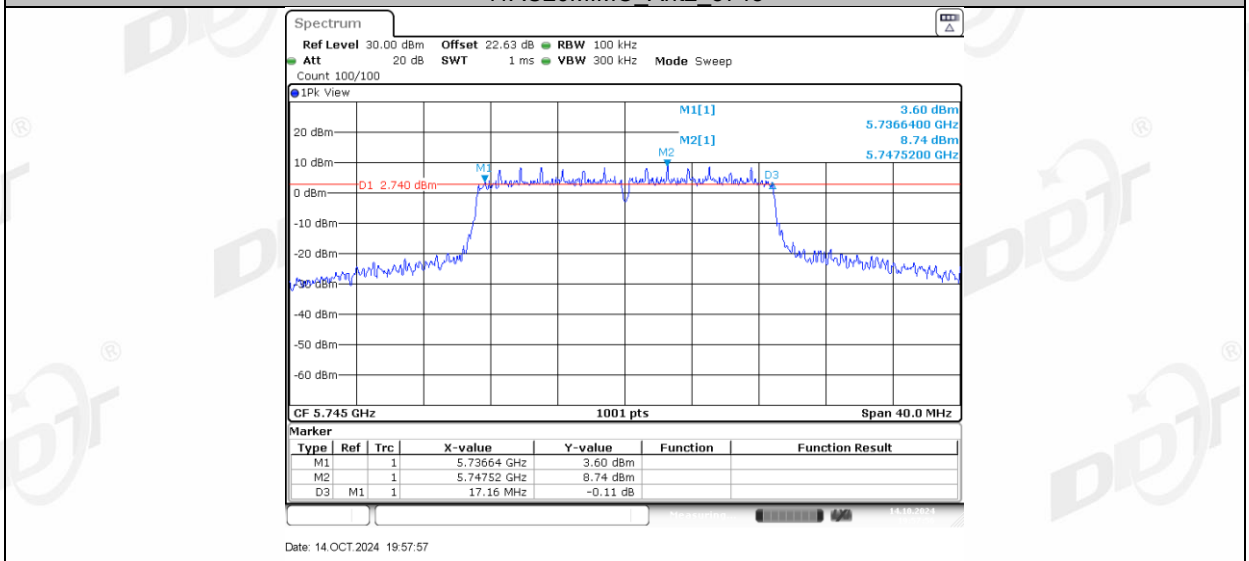




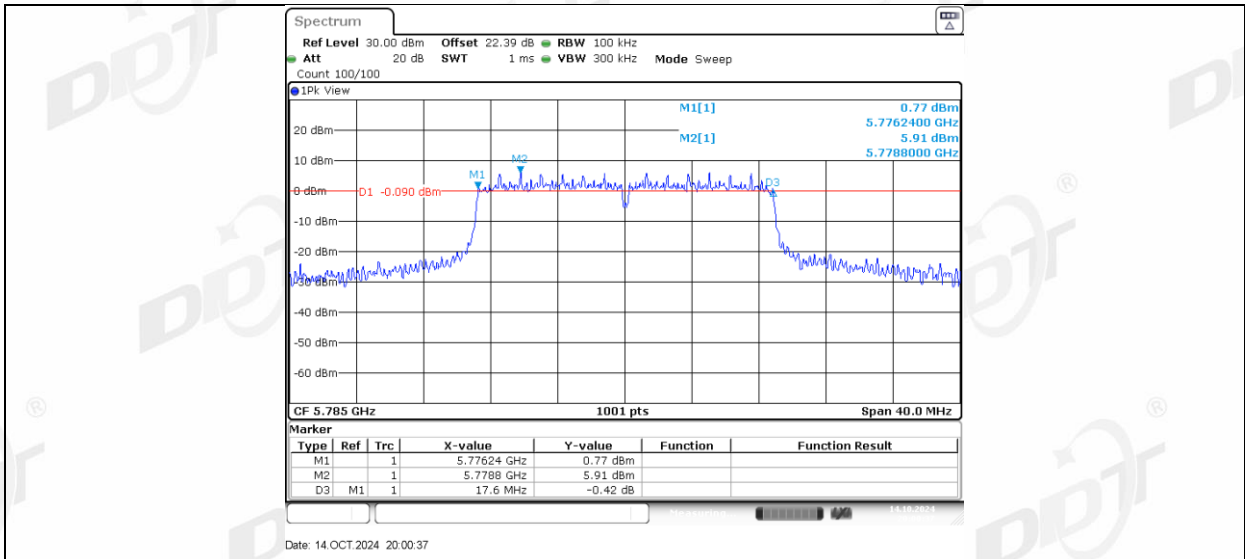
11AC20MIMO\_Ant1\_5745



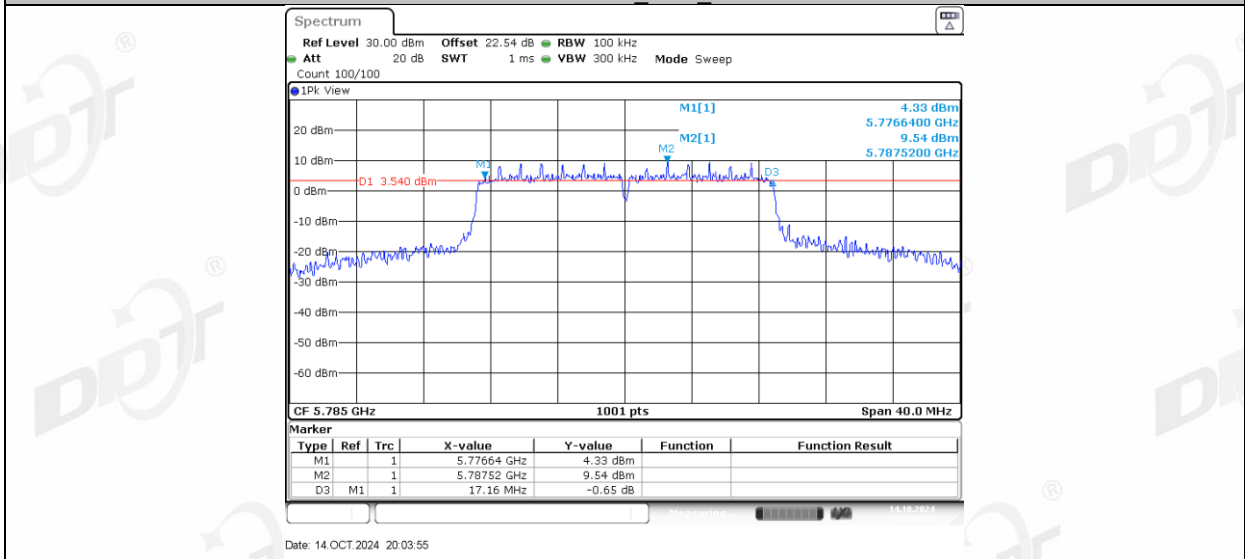
11AC20MIMO\_Ant2\_5745



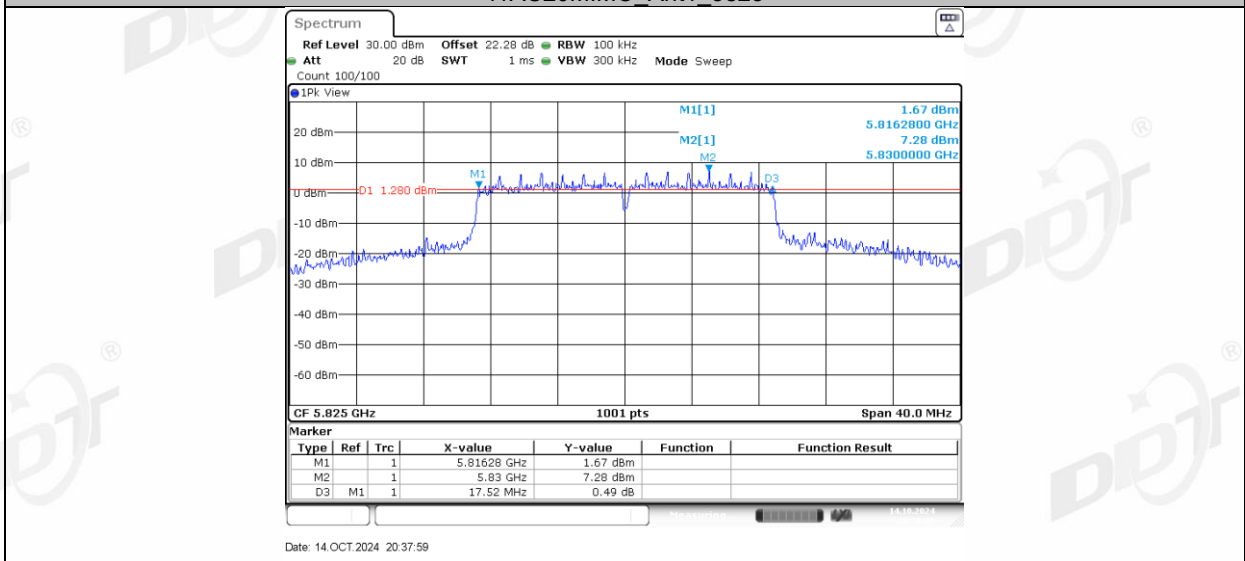
11AC20MIMO\_Ant1\_5785



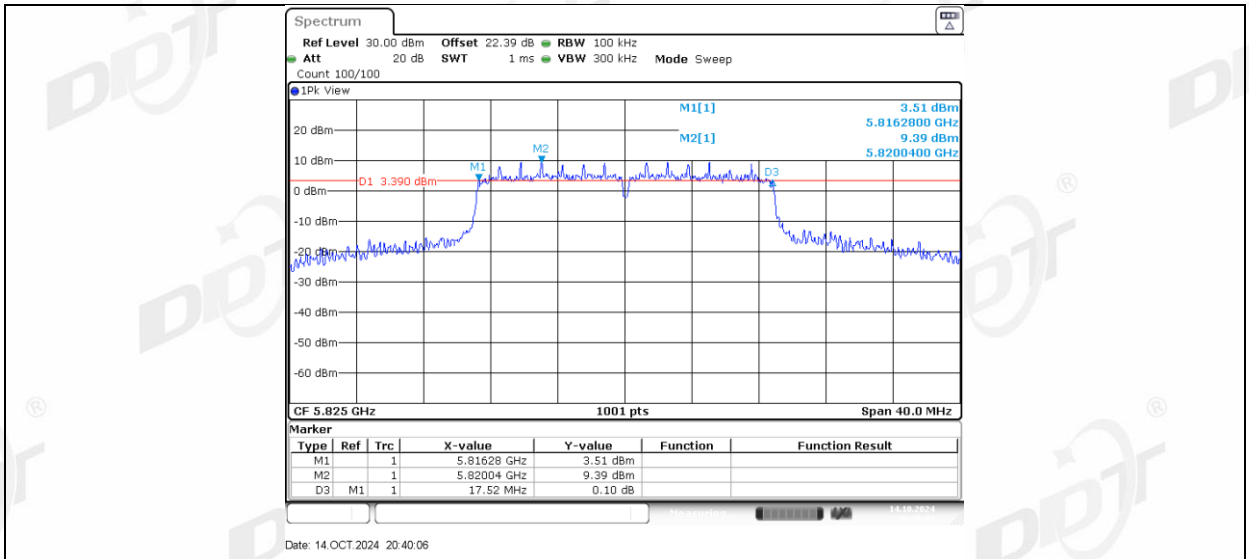
11AC20MIMO\_Ant2\_5785



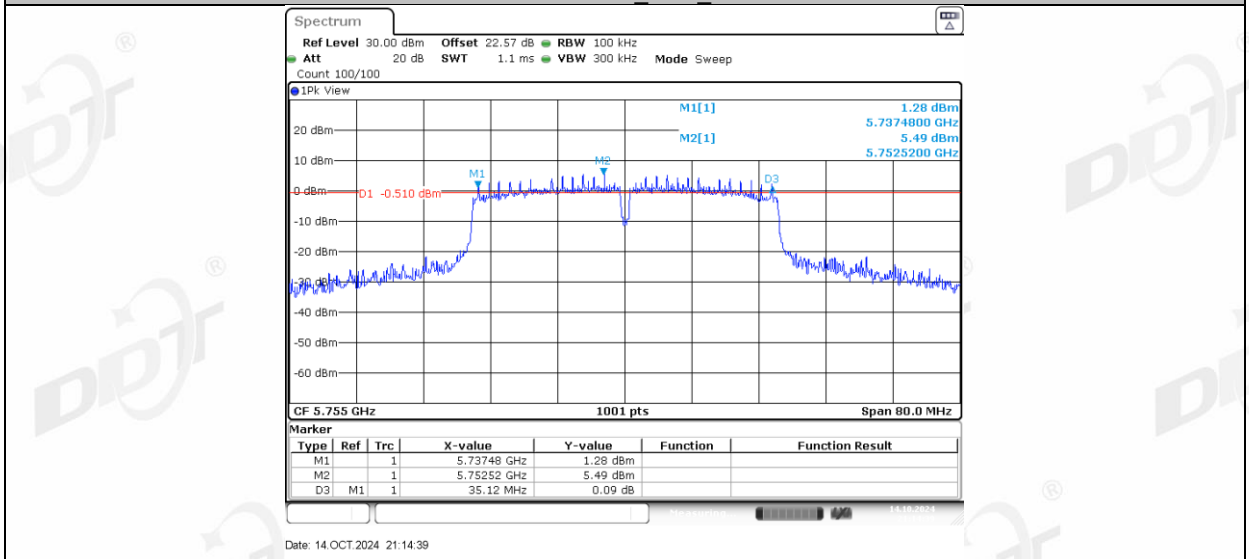
11AC20MIMO\_Ant1\_5825



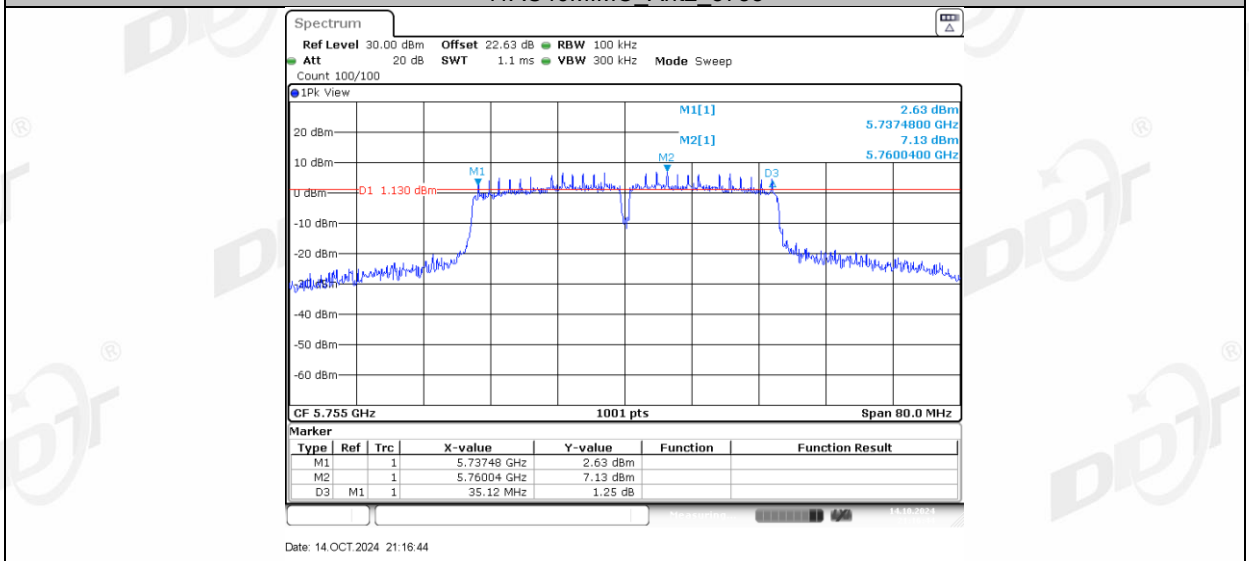
11AC20MIMO\_Ant2\_5825



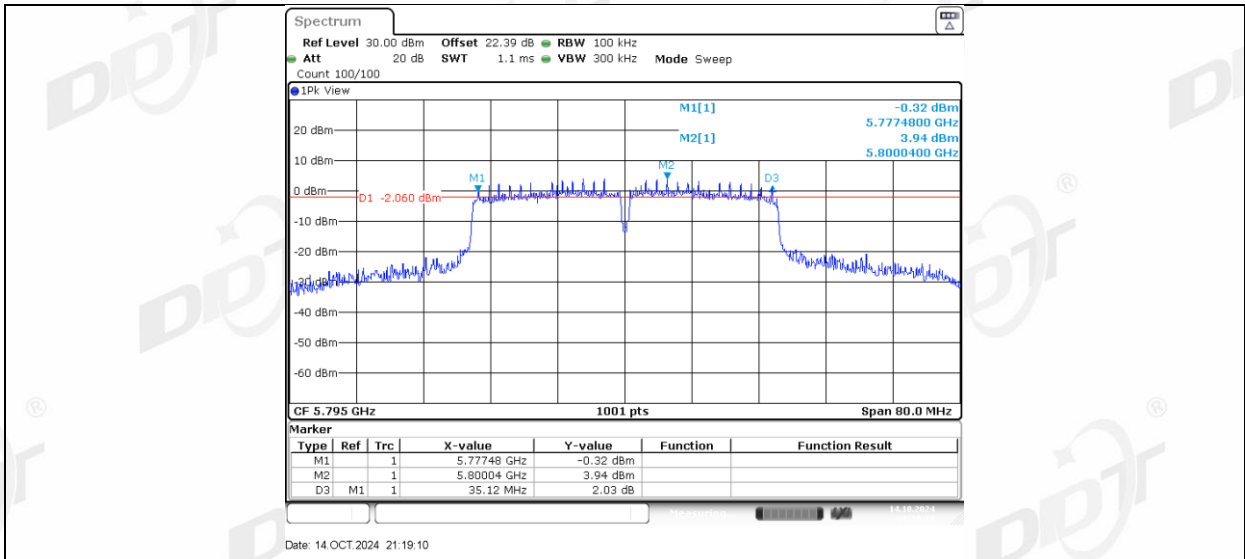
11AC40MIMO\_Ant1\_5755



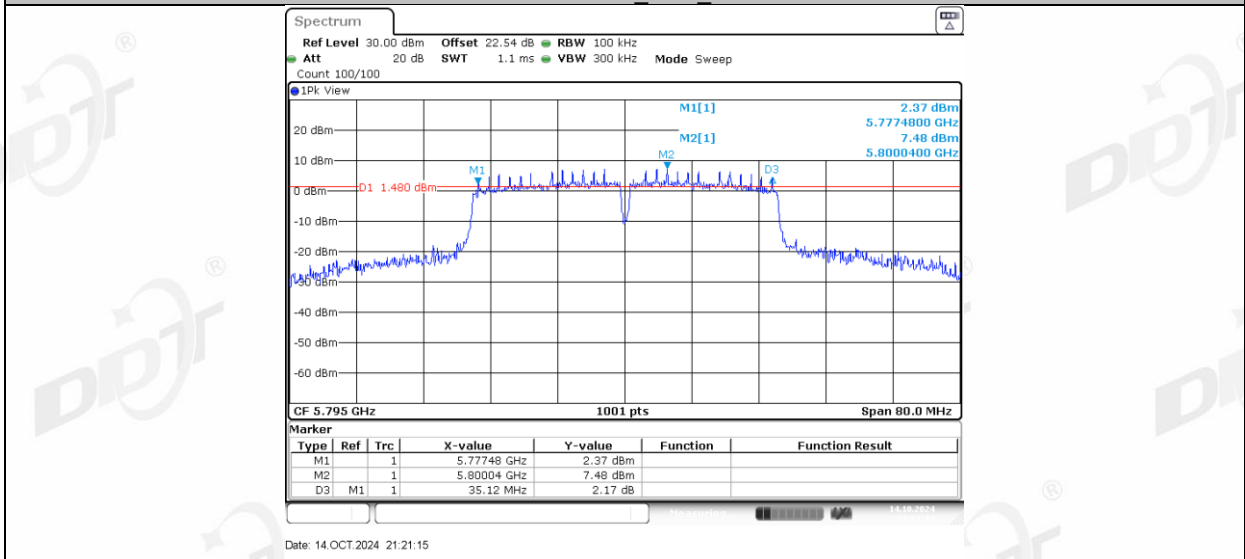
11AC40MIMO\_Ant2\_5755



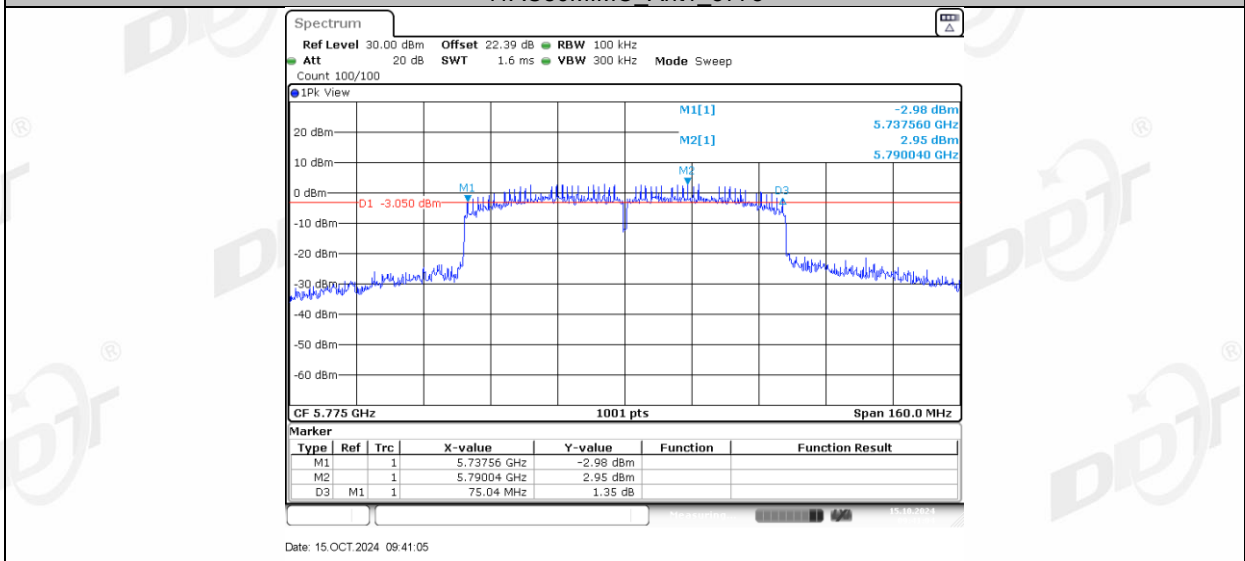
11AC40MIMO\_Ant1\_5795



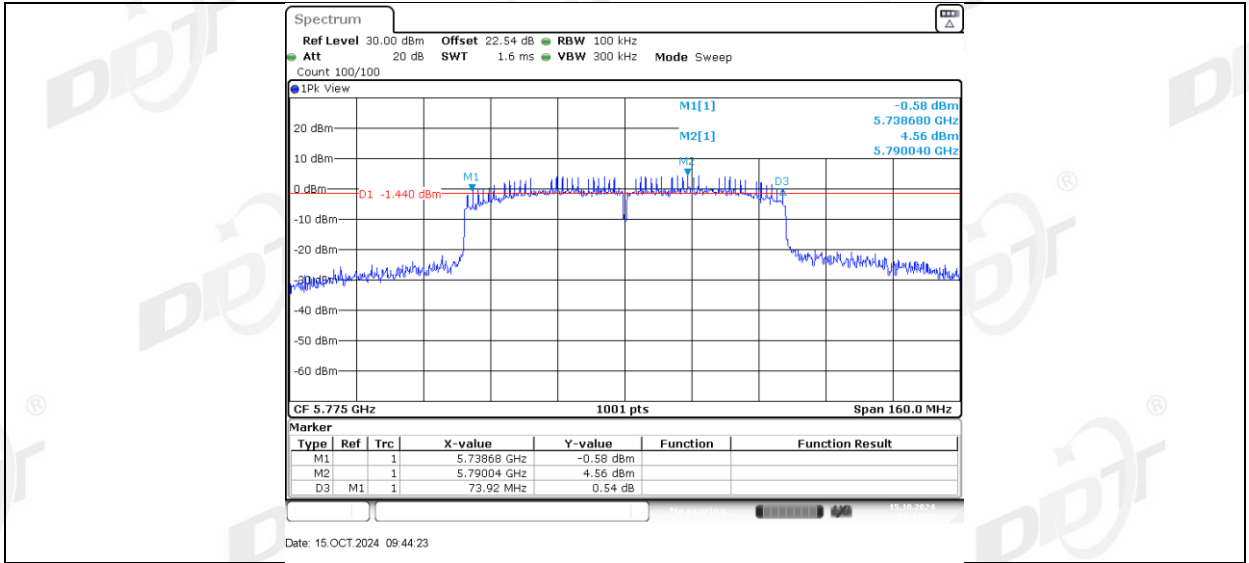
11AC40MIMO\_Ant2\_5795



11AC80MIMO\_Ant1\_5775

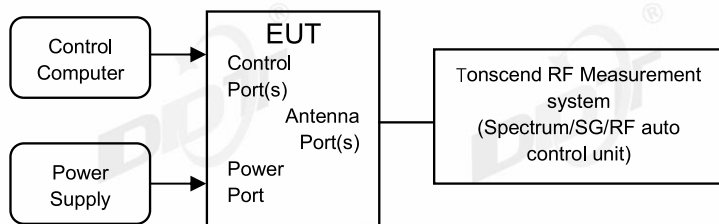


11AC80MIMO\_Ant2\_5775



## 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:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	26.4°C,46.9%RH	Test Date:	2024.10.12-2024.10.22
Test Power Supply:	DC 12V	Sample Number:	S24092008-001

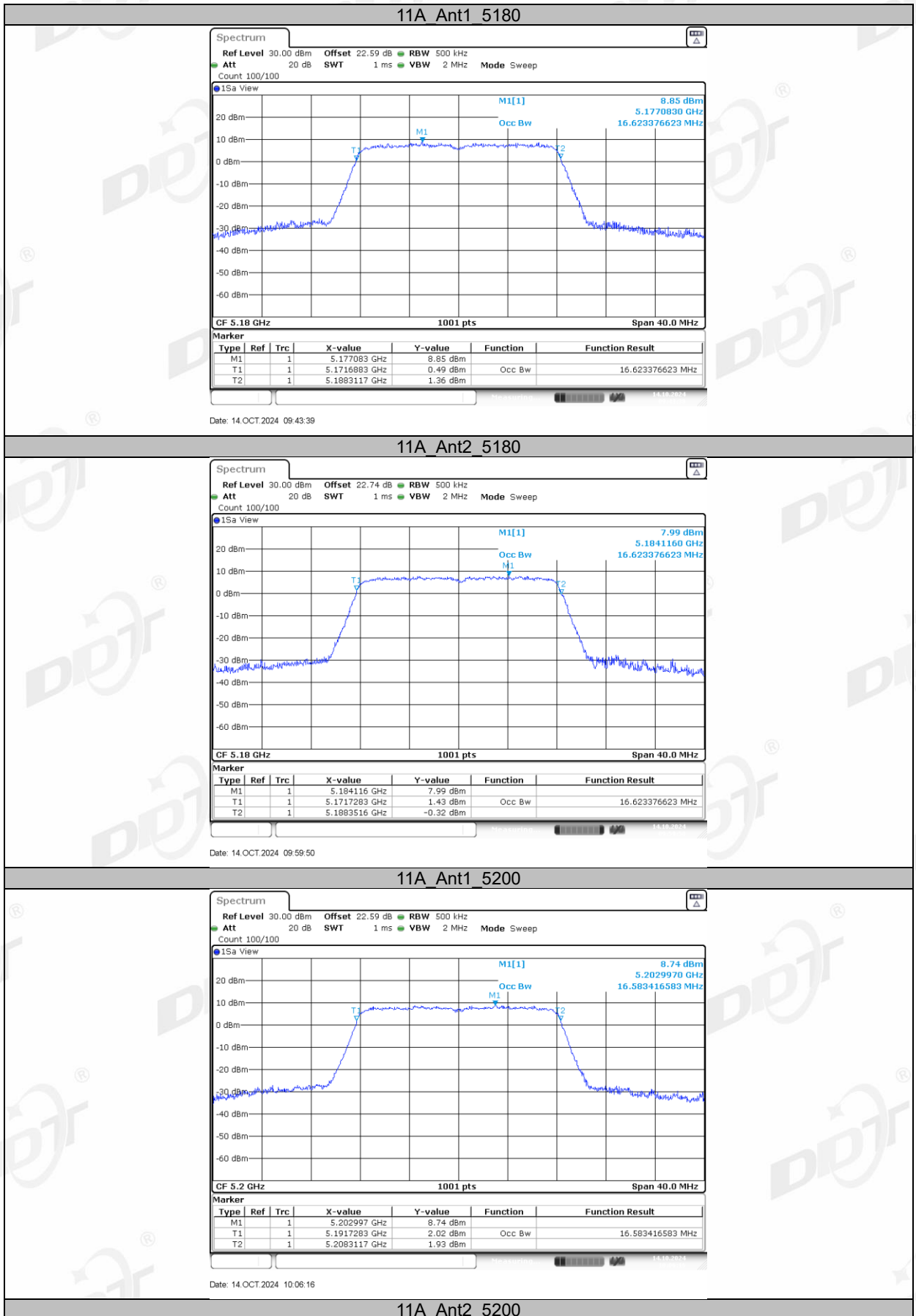
Test Mode	Antenna	Frequenc y [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict	
11A	Ant1	5180	16.623	5171.6883	5188.3117	---	---	
	Ant2	5180	16.623	5171.7283	5188.3516	---	---	
	Ant1	5200	16.583	5191.7283	5208.3117	---	---	
	Ant2	5200	16.543	5191.7283	5208.2717	---	---	
	Ant1	5240	16.623	5231.6484	5248.2717	---	---	
	Ant2	5240	16.623	5231.6883	5248.3117	---	---	
	Ant1	5260	16.583	5251.7283	5268.3117	---	---	
	Ant2	5260	16.583	5251.6883	5268.2717	---	---	
	Ant1	5280	16.583	5271.7283	5288.3117	---	---	
	Ant2	5280	16.623	5271.6883	5288.3117	---	---	
	Ant1	5320	16.663	5311.6484	5328.3117	---	---	
	Ant2	5320	16.623	5311.7283	5328.3516	---	---	
	Ant1	5500	16.783	5491.6883	5508.4715	---	---	
	Ant2	5500	19.341	5491.2488	5510.5894	---	---	
	Ant1	5580	16.783	5571.5684	5588.3516	---	---	
	Ant2	5580	17.502	5571.4086	5588.9111	---	---	
	Ant1	5700	16.623	5691.6883	5708.3117	---	---	
	Ant2	5700	16.703	5691.6484	5708.3516	---	---	
	Ant1	5720	16.583	5711.7283	5728.3117	---	---	
	Ant2	5720	16.663	5711.6883	5728.3516	---	---	
	Ant1	5720_UN II-2C		13.272	5711.7283	5725	---	---
	Ant2	5720_UN II-2C		13.312	5711.6883	5725	---	---
	Ant1	5720_UN II-3		3.312	5725	5728.3117	---	---
	Ant2	5720_UN II-3		3.352	5725	5728.3516	---	---
	Ant1	5745	17.143	5736.5684	5753.7113	---	---	
	Ant2	5745	17.423	5736.4885	5753.9111	---	---	
	Ant1	5785	17.942	5776.3287	5794.2707	---	---	
	Ant2	5785	19.301	5776.2088	5795.5095	---	---	
	Ant1	5825	26.254	5812.9720	5839.2258	---	---	
	Ant2	5825	22.338	5814.5704	5836.9081	---	---	
	11N20MIM O	Ant1	5180	17.622	5171.2088	5188.8312	---	---
		Ant2	5180	17.662	5171.2088	5188.8711	---	---
Ant1		5200	17.662	5191.1688	5208.8312	---	---	
Ant2		5200	17.702	5191.1688	5208.8711	---	---	
Ant1		5240	17.662	5231.1688	5248.8312	---	---	
Ant2		5240	17.702	5231.1688	5248.8711	---	---	
Ant1		5260	17.662	5251.1688	5268.8312	---	---	
Ant2		5260	17.702	5251.1688	5268.8711	---	---	
Ant1		5280	17.582	5271.2488	5288.8312	---	---	
Ant2		5280	17.702	5271.1688	5288.8711	---	---	
Ant1		5320	17.622	5311.2088	5328.8312	---	---	
Ant2		5320	17.702	5311.1688	5328.8711	---	---	
Ant1		5500	17.662	5491.2088	5508.8711	---	---	
Ant2		5500	18.462	5490.9690	5509.4306	---	---	
Ant1		5580	17.702	5571.1688	5588.8711	---	---	
Ant2		5580	18.022	5571.0090	5589.0310	---	---	
Ant1		5700	17.622	5691.2088	5708.8312	---	---	
Ant2		5700	17.742	5691.1688	5708.9111	---	---	
Ant1		5720	17.622	5711.2088	5728.8312	---	---	
Ant2		5720	17.702	5711.1688	5728.8711	---	---	
Ant1	5720_UN II-2C		13.791	5711.2088	5725	---	---	

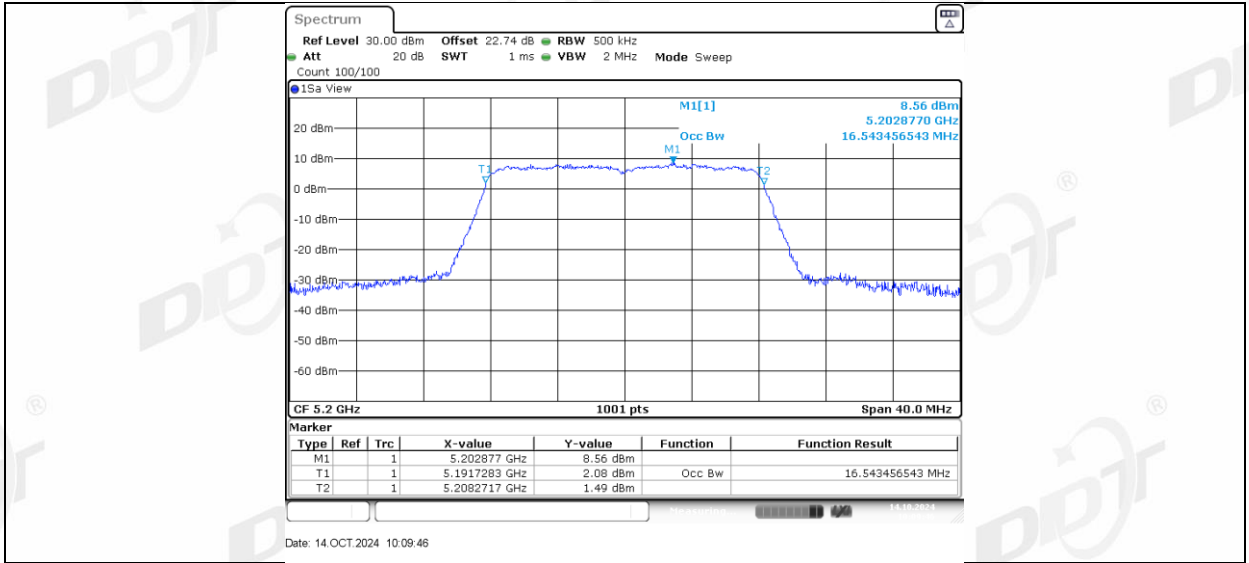


	Ant2	5720_UN II-2C	13.831	5711.1688	5725	---	---	
	Ant1	5720_UN II-3	3.831	5725	5728.8312	---	---	
	Ant2	5720_UN II-3	3.871	5725	5728.8711	---	---	
	Ant1	5745	17.742	5736.2088	5753.9510	---	---	
	Ant2	5745	17.902	5736.1289	5754.0310	---	---	
	Ant1	5785	17.902	5776.1289	5794.0310	---	---	
	Ant2	5785	18.382	5775.9690	5794.3506	---	---	
	Ant1	5825	19.62	5815.9690	5835.5894	---	---	
	Ant2	5825	19.021	5815.8492	5834.8701	---	---	
11N40MIM O	Ant1	5190	36.284	5171.9381	5208.2218	---	---	
	Ant2	5190	36.204	5171.9381	5208.1419	---	---	
	Ant1	5230	36.284	5211.7782	5248.0619	---	---	
	Ant2	5230	36.204	5211.8581	5248.0619	---	---	
	Ant1	5270	36.284	5251.9381	5288.2218	---	---	
	Ant2	5270	36.364	5251.8581	5288.2218	---	---	
	Ant1	5310	36.204	5291.9381	5328.1419	---	---	
	Ant2	5310	36.444	5291.8581	5328.3017	---	---	
	Ant1	5510	36.523	5491.8581	5528.3816	---	---	
	Ant2	5510	38.681	5491.6983	5530.3796	---	---	
	Ant1	5550	36.523	5531.8581	5568.3816	---	---	
	Ant2	5550	37.003	5531.6983	5568.7013	---	---	
	Ant1	5670	36.284	5651.7782	5688.0619	---	---	
	Ant2	5670	36.364	5651.8581	5688.2218	---	---	
	Ant1	5710	36.364	5691.8581	5728.2218	---	---	
	Ant2	5710	36.284	5691.9381	5728.2218	---	---	
	Ant1	5710_UN II-2C	33.142	5691.8581	5725	---	---	
	Ant2	5710_UN II-2C	33.062	5691.9381	5725	---	---	
	Ant1	5710_UN II-3	3.222	5725	5728.2218	---	---	
	Ant2	5710_UN II-3	3.222	5725	5728.2218	---	---	
	Ant1	5755	36.683	5736.8581	5773.5415	---	---	
	Ant2	5755	37.083	5736.6184	5773.7013	---	---	
	Ant1	5795	36.923	5776.6983	5813.6214	---	---	
	Ant2	5795	37.003	5776.6983	5813.7013	---	---	
	11AC20MI MO	Ant1	5180	17.662	5171.2088	5188.8711	---	---
		Ant2	5180	17.662	5171.2088	5188.8711	---	---
		Ant1	5200	17.662	5191.2088	5208.8711	---	---
Ant2		5200	17.662	5191.1688	5208.8312	---	---	
Ant1		5240	17.662	5231.1688	5248.8312	---	---	
Ant2		5240	17.702	5231.1688	5248.8711	---	---	
Ant1		5260	17.702	5251.1688	5268.8711	---	---	
Ant2		5260	17.742	5251.1688	5268.9111	---	---	
Ant1		5280	17.662	5271.2088	5288.8711	---	---	
Ant2		5280	17.702	5271.1688	5288.8711	---	---	
Ant1		5320	17.662	5311.1688	5328.8312	---	---	
Ant2		5320	17.742	5311.1688	5328.9111	---	---	
Ant1		5500	17.742	5491.1688	5508.9111	---	---	
Ant2		5500	18.941	5490.6494	5509.5904	---	---	
Ant1		5580	17.662	5571.1688	5588.8312	---	---	
Ant2		5580	18.182	5570.9291	5589.1109	---	---	
Ant1		5700	17.662	5691.1688	5708.8312	---	---	
Ant2		5700	17.742	5691.1688	5708.9111	---	---	
Ant1		5720	17.662	5711.2088	5728.8711	---	---	
Ant2		5720	17.862	5711.0889	5728.9510	---	---	
Ant1		5720_UN II-2C	13.791	5711.2088	5725	---	---	
Ant2		5720_UN II-2C	13.911	5711.0889	5725	---	---	

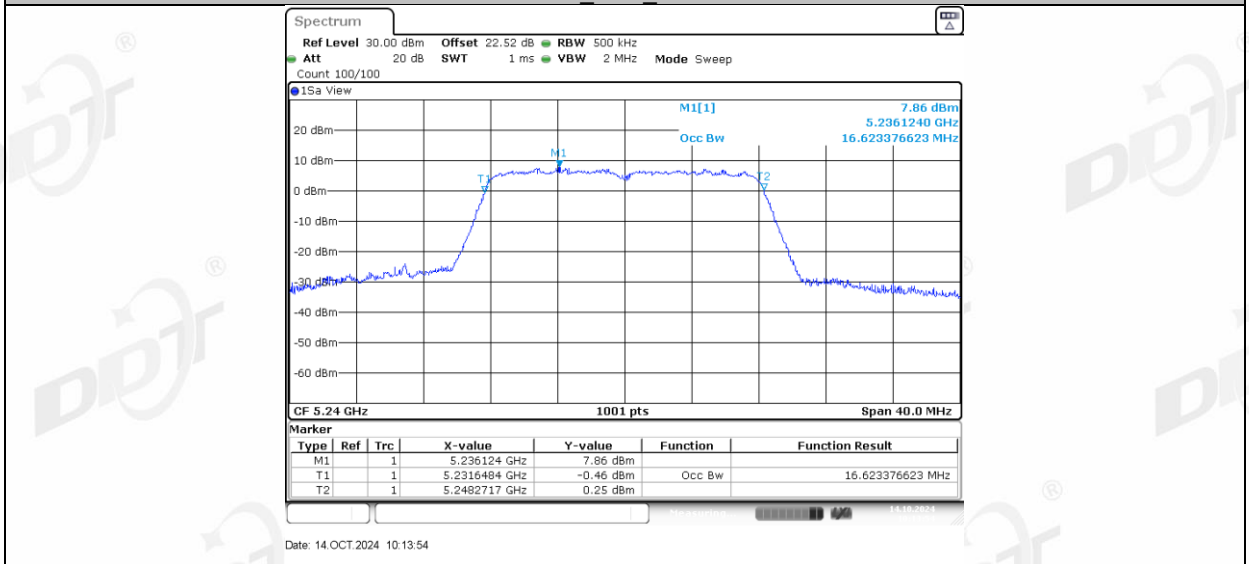
	Ant1	5720_UN II-3	3.871	5725	5728.8711	---	---	
	Ant2	5720_UN II-3	3.951	5725	5728.9510	---	---	
	Ant1	5745	17.902	5736.0889	5753.9910	---	---	
	Ant2	5745	17.982	5736.1289	5754.1109	---	---	
	Ant1	5785	17.862	5776.0889	5793.9510	---	---	
	Ant2	5785	18.342	5775.9690	5794.3107	---	---	
	Ant1	5825	20.06	5815.8891	5835.9491	---	---	
	Ant2	5825	18.861	5815.8891	5834.7502	---	---	
	Ant1	5190	36.364	5171.9381	5208.3017	---	---	
	Ant2	5190	36.364	5171.8581	5208.2218	---	---	
	Ant1	5230	36.204	5211.6983	5247.9021	---	---	
	Ant2	5230	36.364	5211.9381	5248.3017	---	---	
	Ant1	5270	36.284	5251.9381	5288.2218	---	---	
	Ant2	5270	36.364	5251.7782	5288.1419	---	---	
11AC40MI MO	Ant1	5310	36.204	5291.9381	5328.1419	---	---	
	Ant2	5310	36.284	5291.8581	5328.1419	---	---	
	Ant1	5510	36.523	5491.9381	5528.4615	---	---	
	Ant2	5510	39.401	5491.2987	5530.6993	---	---	
	Ant1	5550	36.364	5531.9381	5568.3017	---	---	
	Ant2	5550	37.163	5531.6184	5568.7812	---	---	
	Ant1	5670	36.124	5651.8581	5687.9820	---	---	
	Ant2	5670	36.603	5651.7782	5688.3816	---	---	
	Ant1	5710	36.124	5692.0180	5728.1419	---	---	
	Ant2	5710	36.523	5691.7782	5728.3017	---	---	
	Ant1	5710_UN II-2C	32.982	5692.0180	5725	---	---	
	Ant2	5710_UN II-2C	33.222	5691.7782	5725	---	---	
	Ant1	5710_UN II-3	3.142	5725	5728.1419	---	---	
	Ant2	5710_UN II-3	3.302	5725	5728.3017	---	---	
	Ant1	5755	36.763	5736.6983	5773.4615	---	---	
	Ant2	5755	37.163	5736.7782	5773.9411	---	---	
	Ant1	5795	37.003	5776.6983	5813.7013	---	---	
	Ant2	5795	37.083	5776.6184	5813.7013	---	---	
	11AC80MI MO	Ant1	5210	74.486	5172.4376	5246.9231	---	---
		Ant2	5210	74.805	5172.4376	5247.2428	---	---
		Ant1	5290	74.965	5252.4376	5327.4026	---	---
		Ant2	5290	75.285	5252.4376	5327.7223	---	---
		Ant1	5530	74.965	5492.7572	5567.7223	---	---
		Ant2	5530	76.563	5492.2777	5568.8412	---	---
		Ant1	5610	75.285	5572.2777	5647.5624	---	---
		Ant2	5610	75.445	5572.1179	5647.5624	---	---
Ant1		5690	75.445	5652.1179	5727.5624	---	---	
Ant2		5690	74.805	5652.2777	5727.0829	---	---	
Ant1		5690_UN II-2C	72.882	5652.1179	5725	---	---	
Ant2		5690_UN II-2C	72.722	5652.2777	5725	---	---	
Ant1		5690_UN II-3	2.562	5725	5727.5624	---	---	
Ant2		5690_UN II-3	2.083	5725	5727.0829	---	---	
Ant1		5775	75.924	5737.2777	5813.2018	---	---	
Ant2		5775	76.084	5737.2777	5813.3616	---	---	

### 6.5. Test graphs

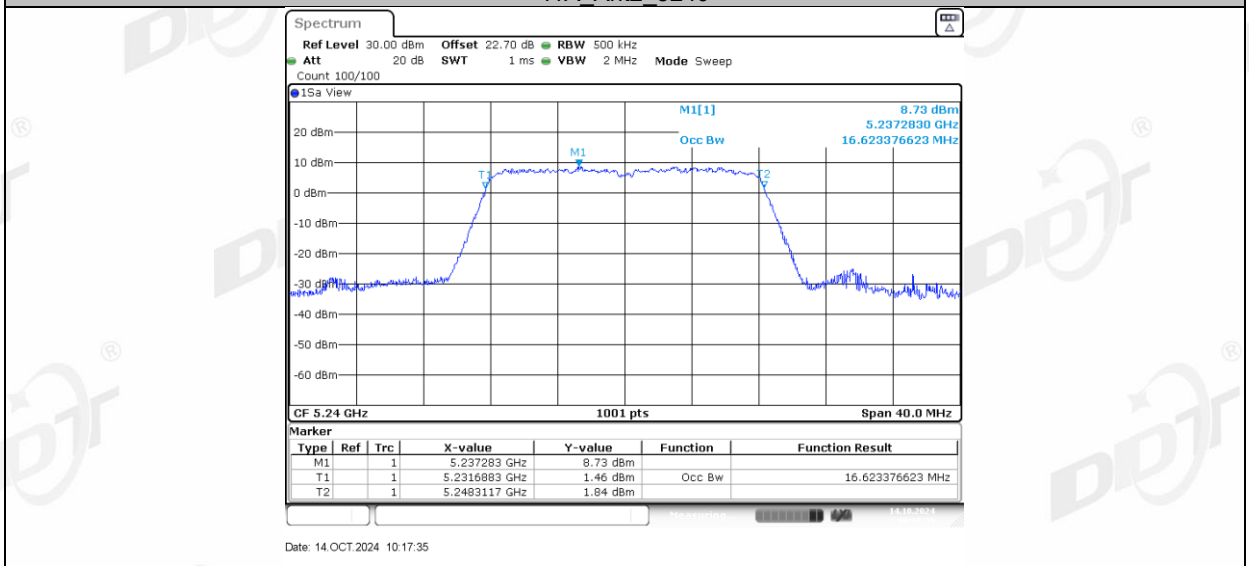




11A\_Ant1\_5240



11A\_Ant2\_5240



11A\_Ant1\_5260