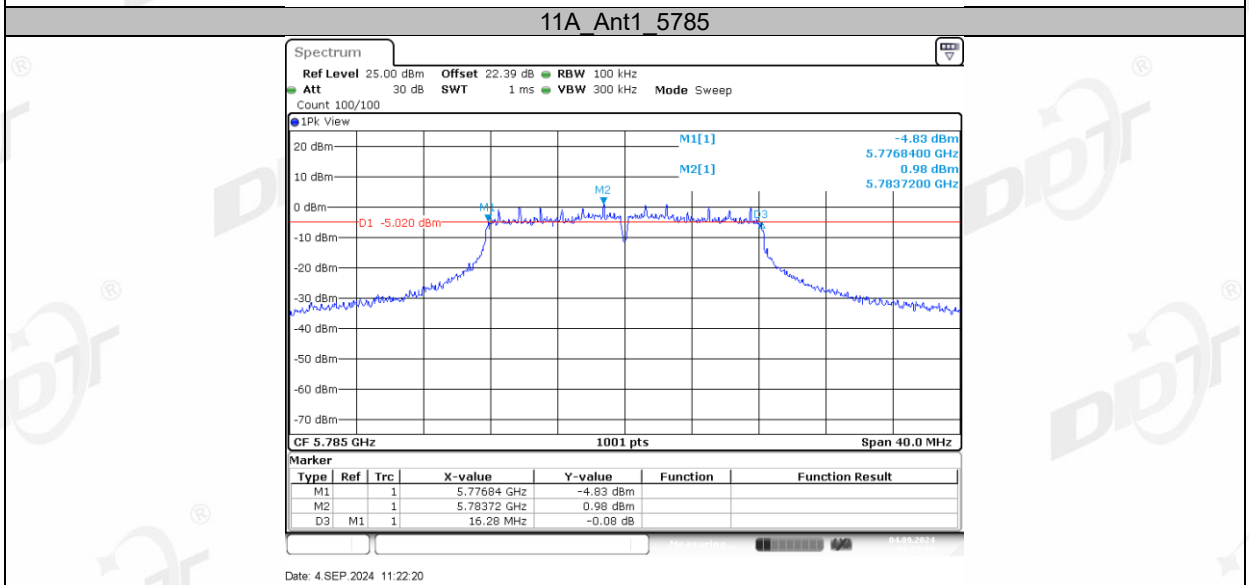
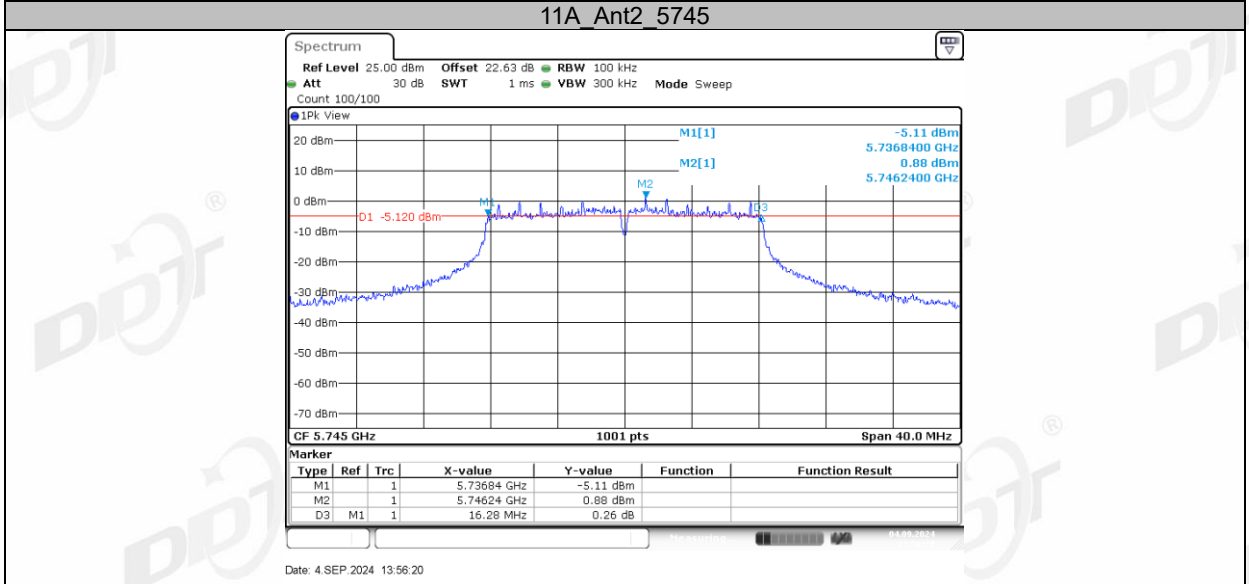
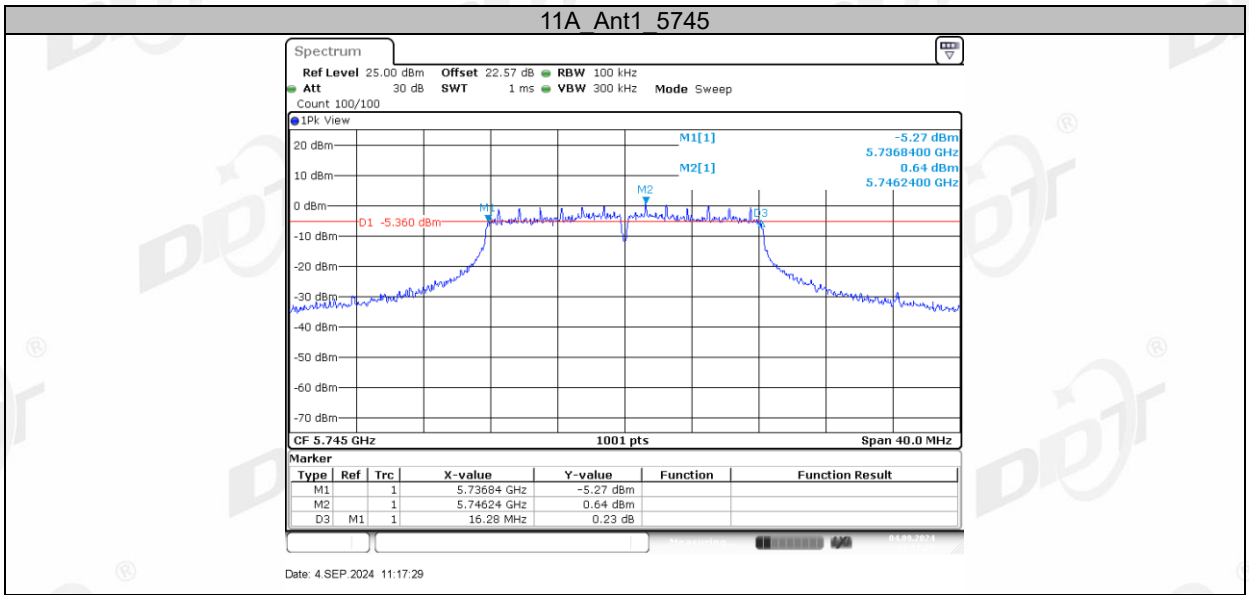
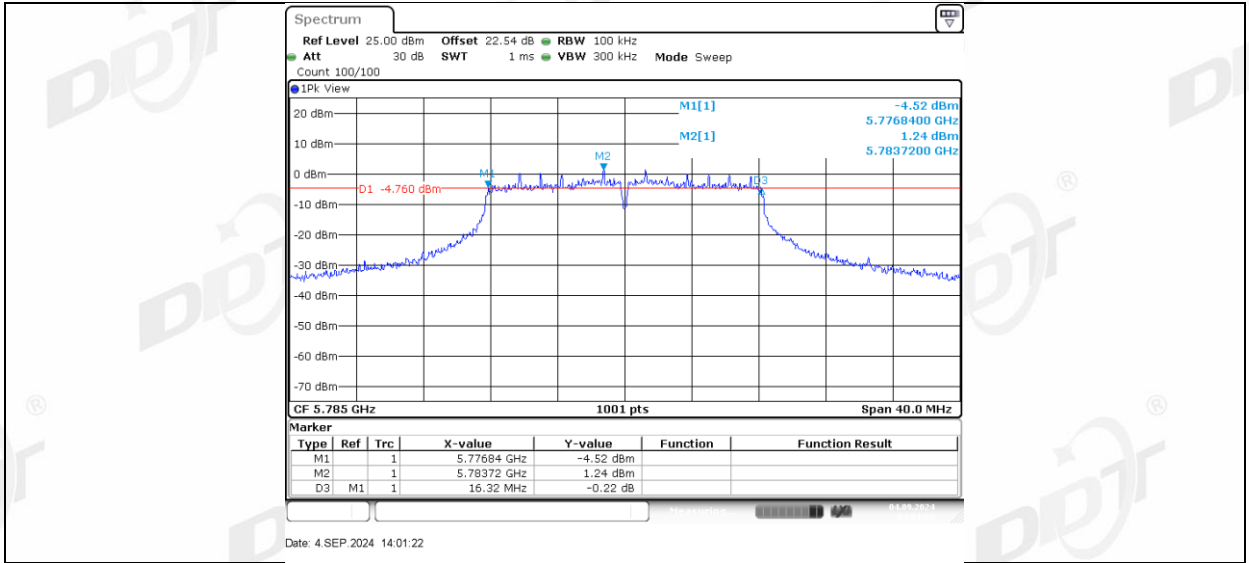


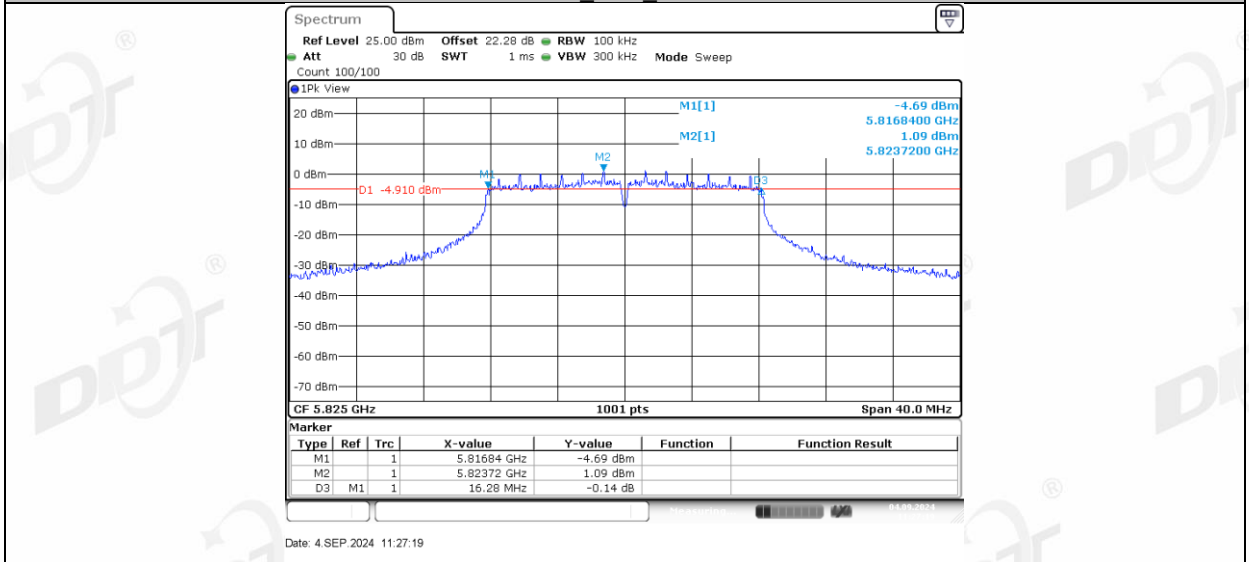
### 5.5. Test graphs B4



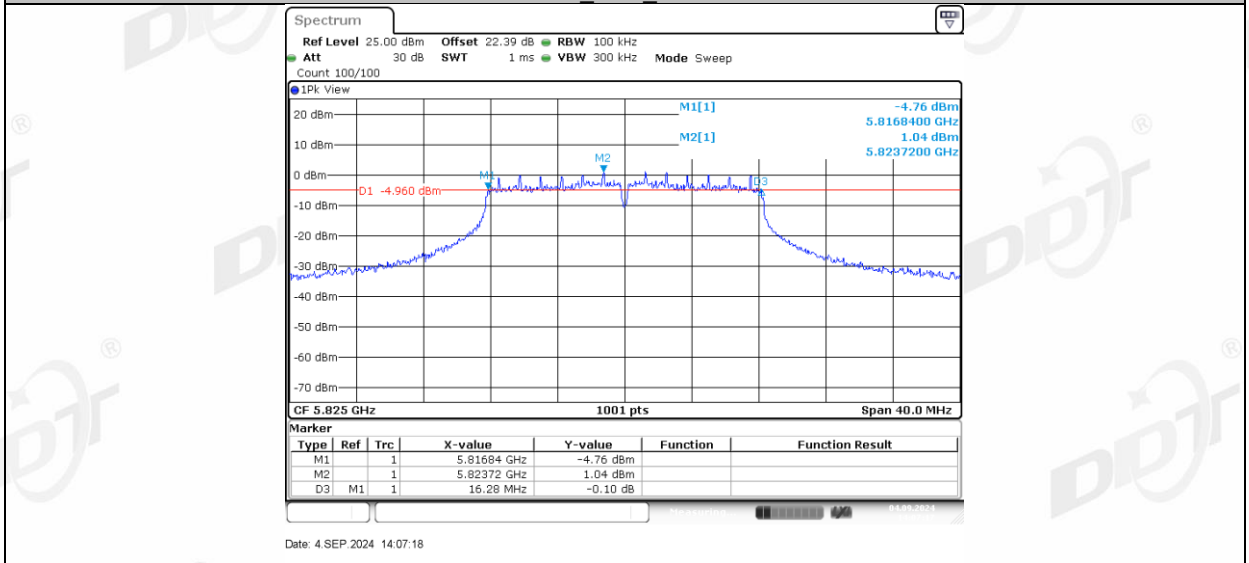
**11A\_Ant2\_5785**



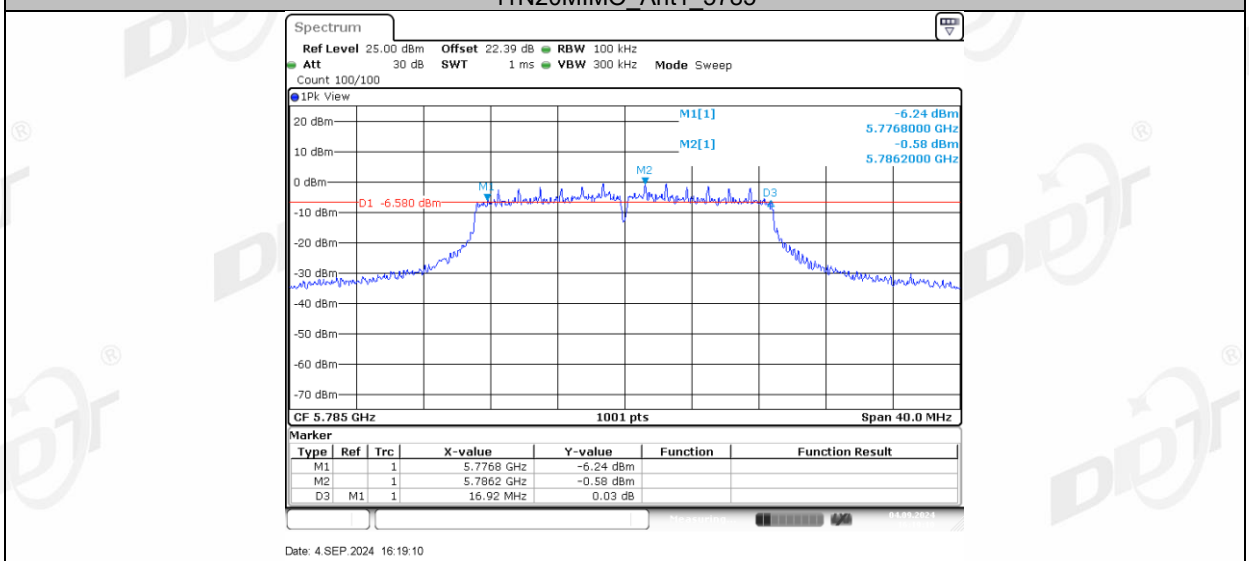
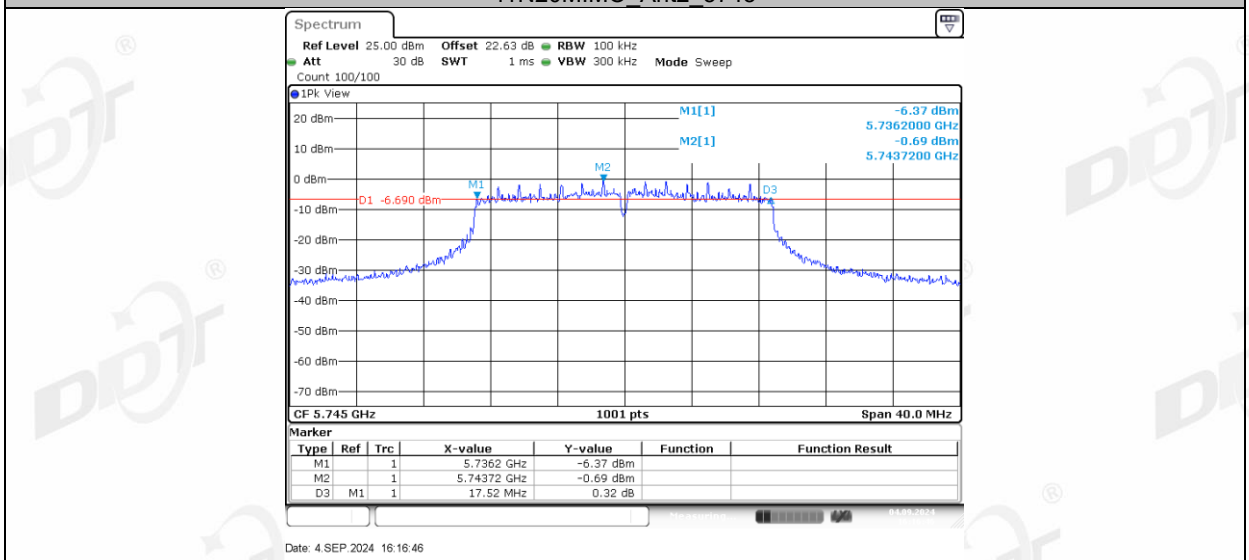
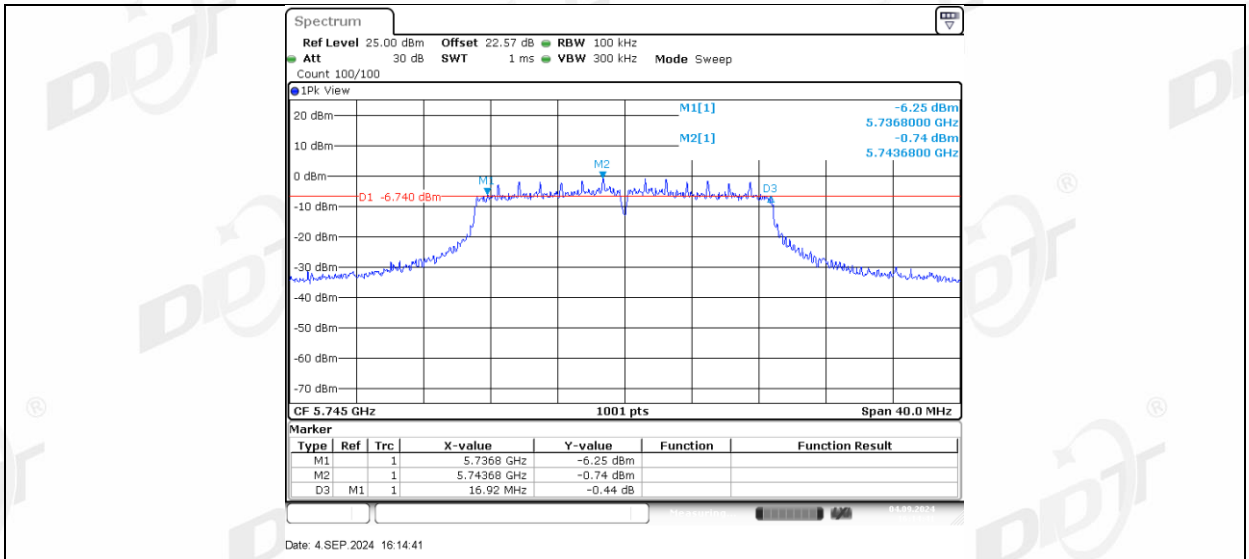
11A\_Ant1\_5825

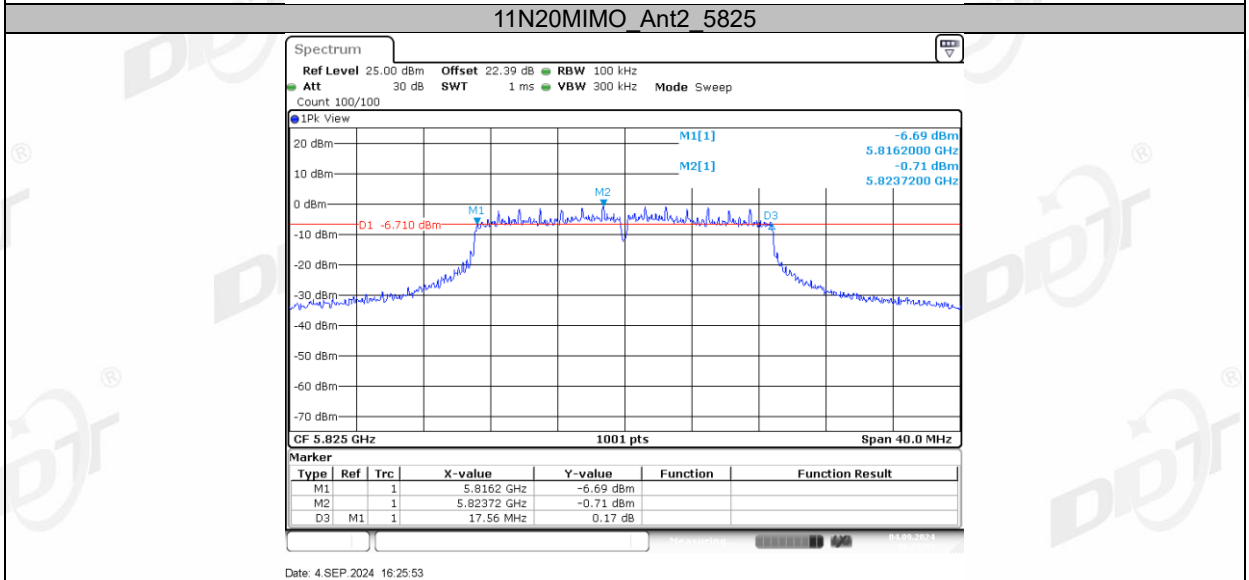
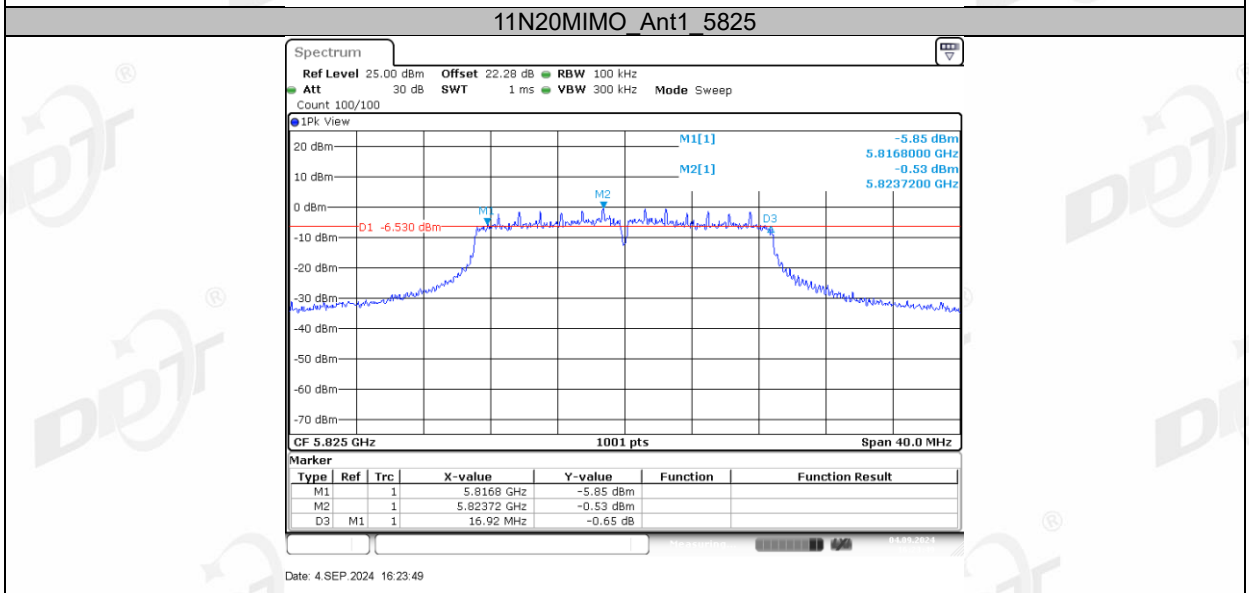
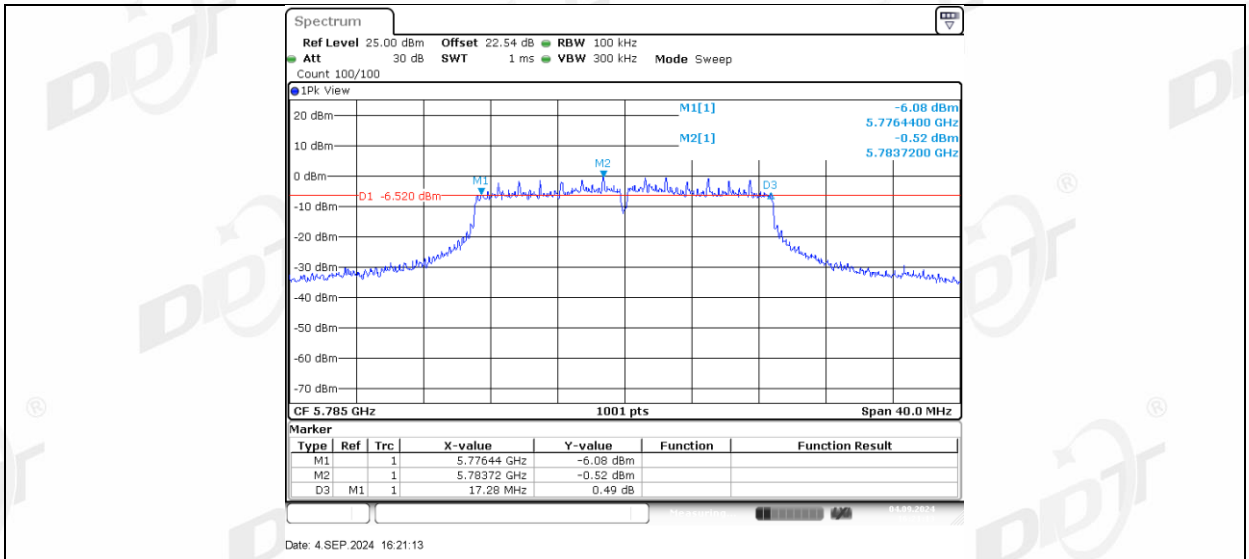


11A\_Ant2\_5825

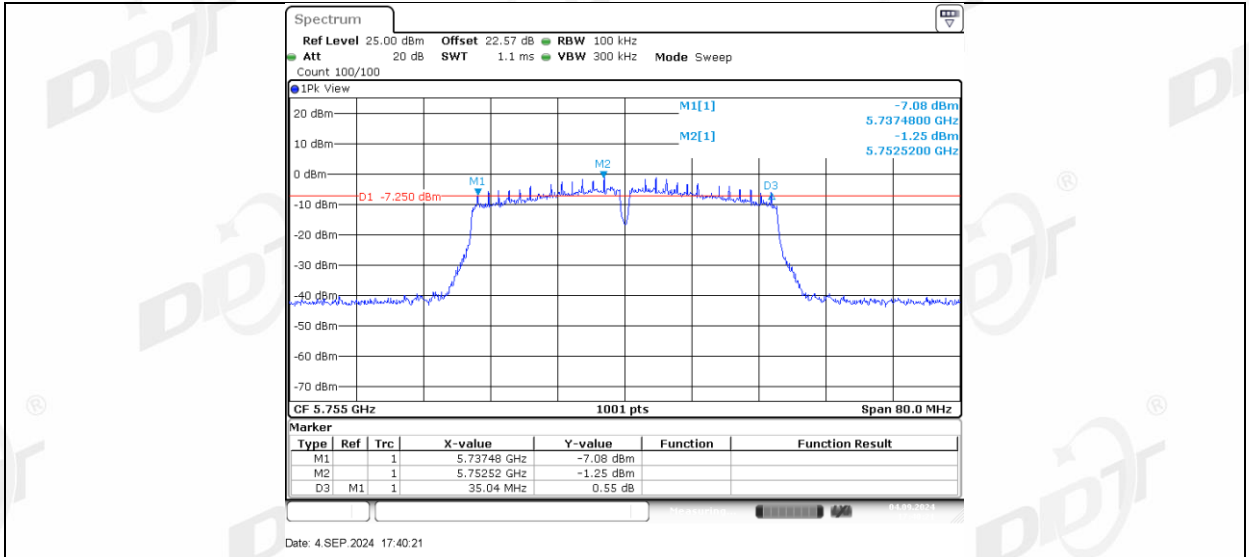


11N20MIMO\_Ant1\_5745

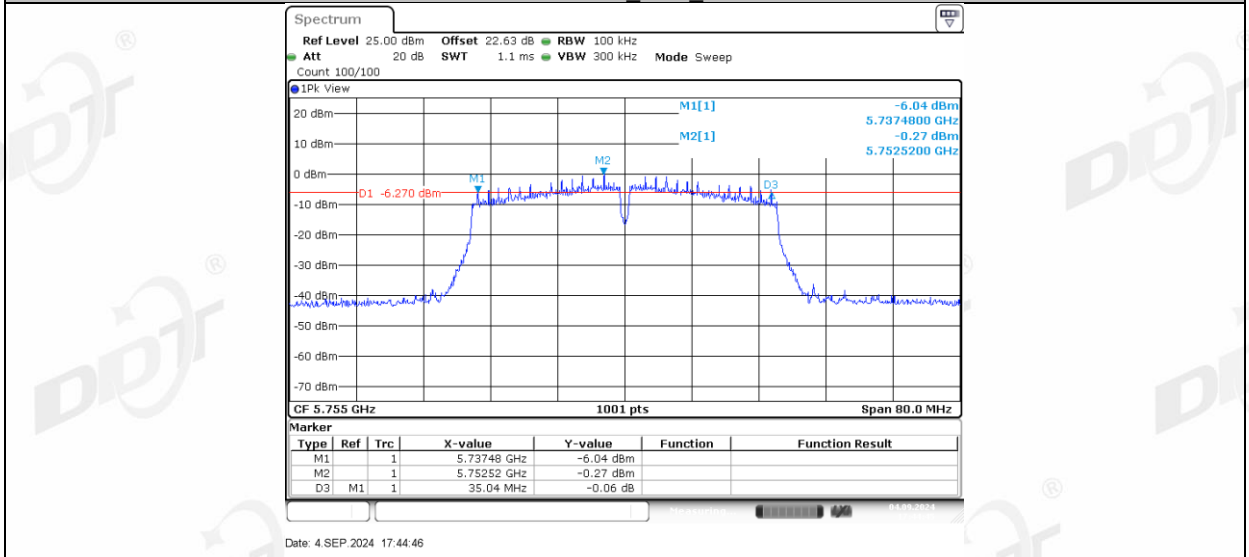




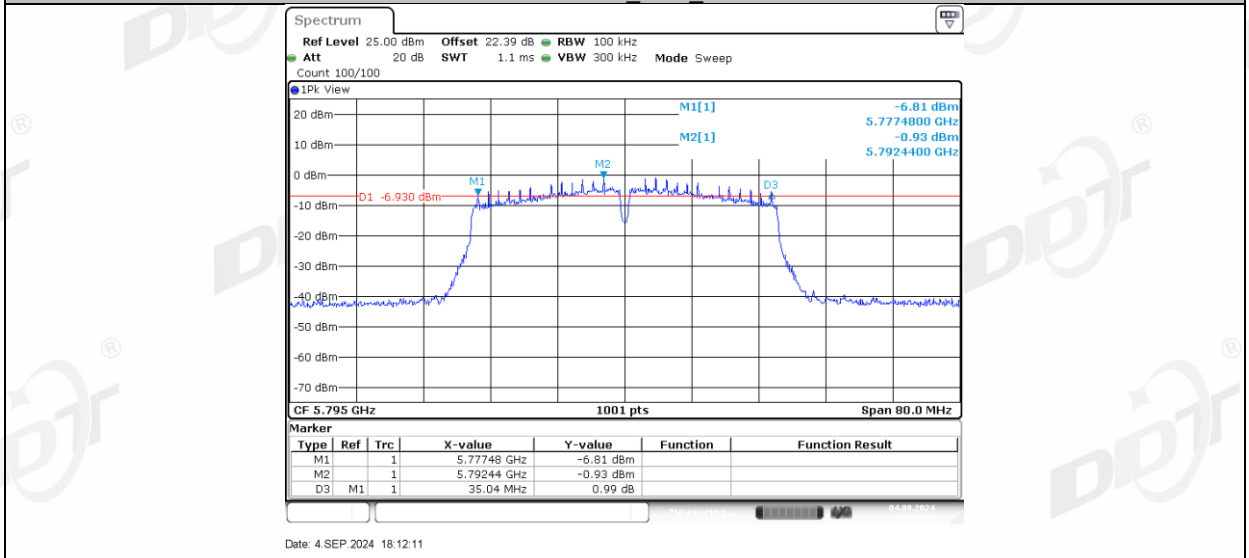
**11N40MIMO\_Ant1\_5755**



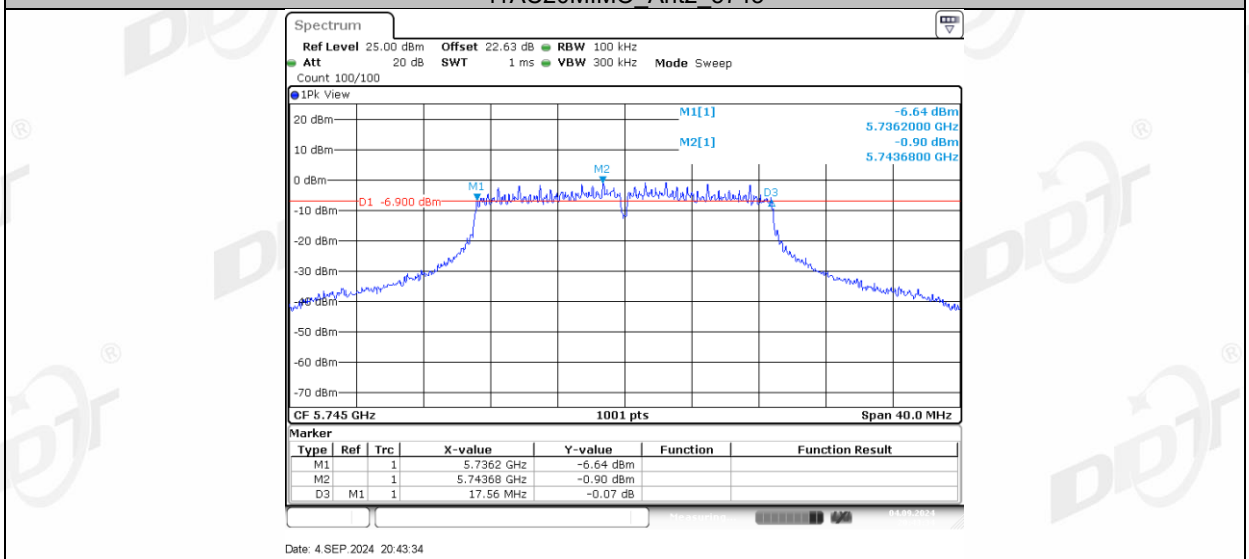
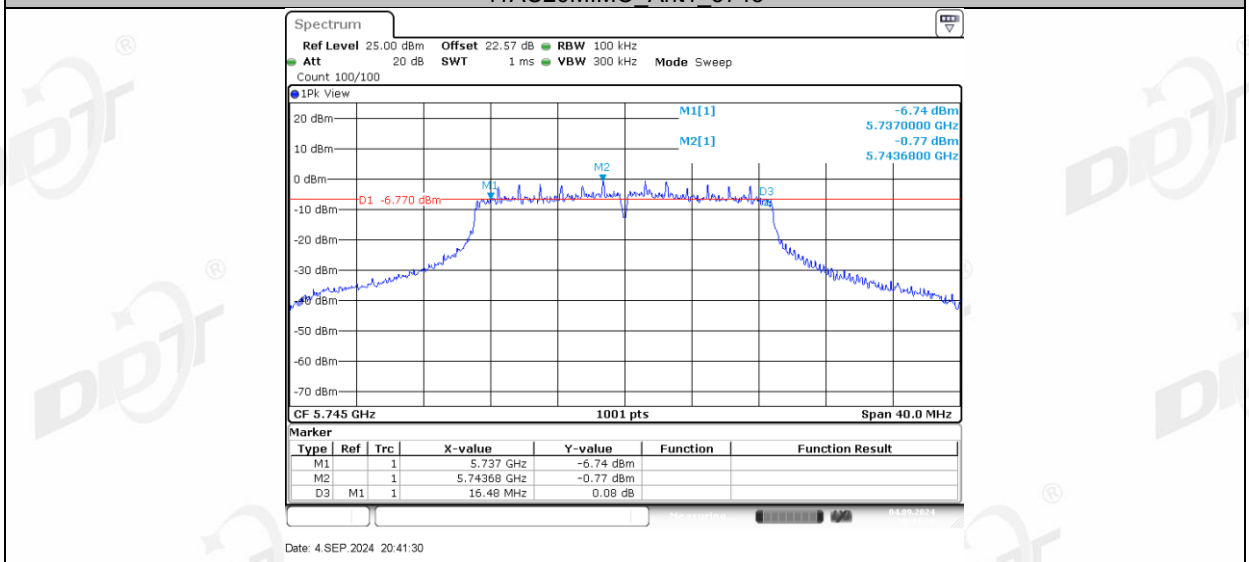
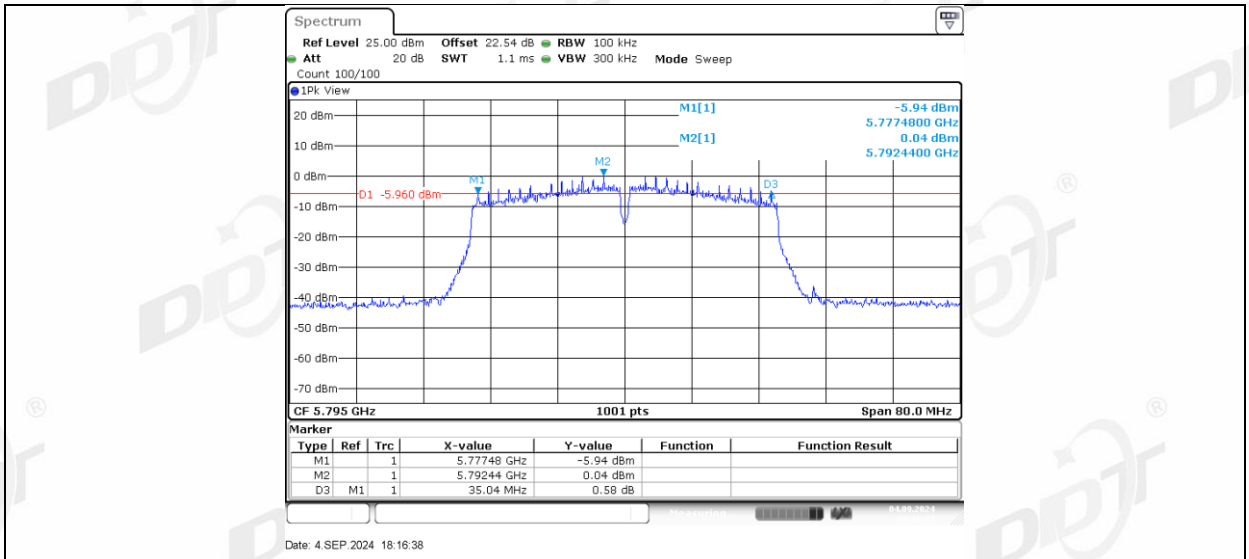
11N40MIMO\_Ant2\_5755



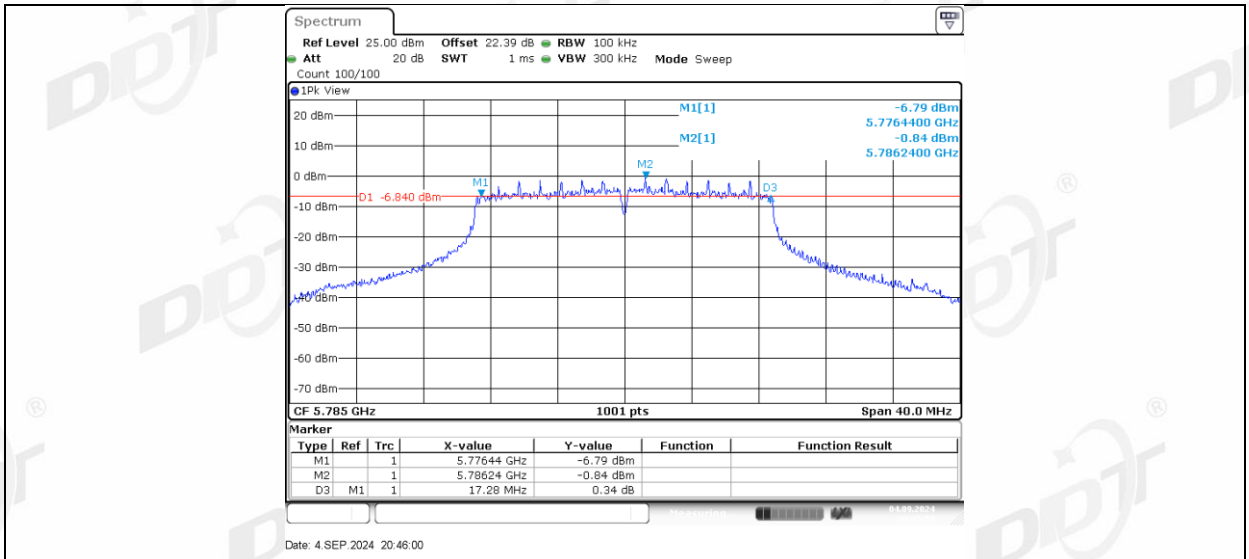
11N40MIMO\_Ant1\_5795



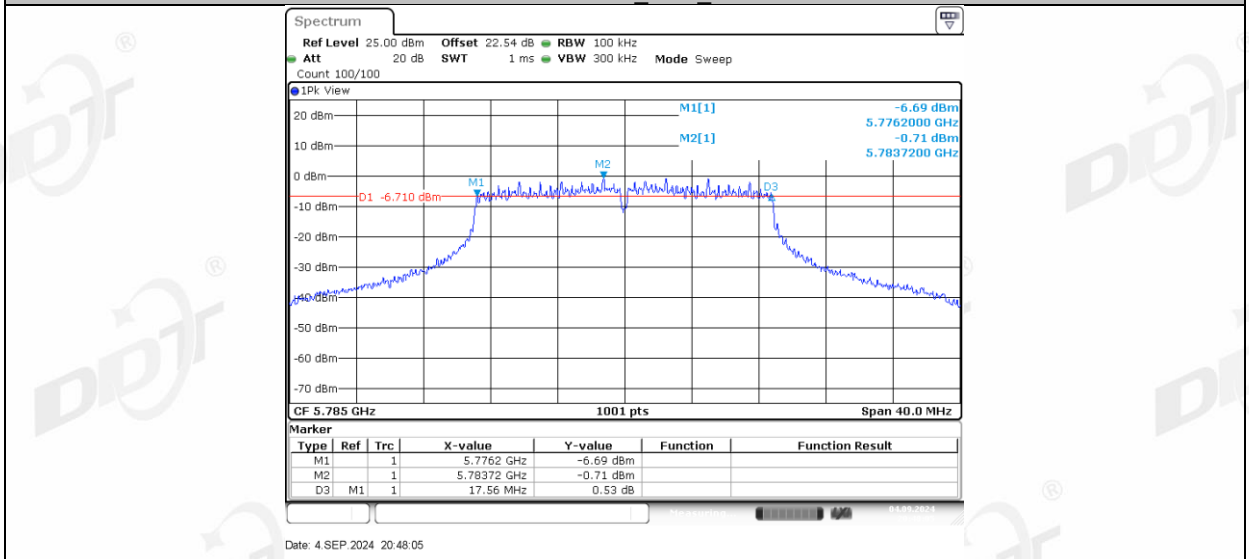
11N40MIMO\_Ant2\_5795



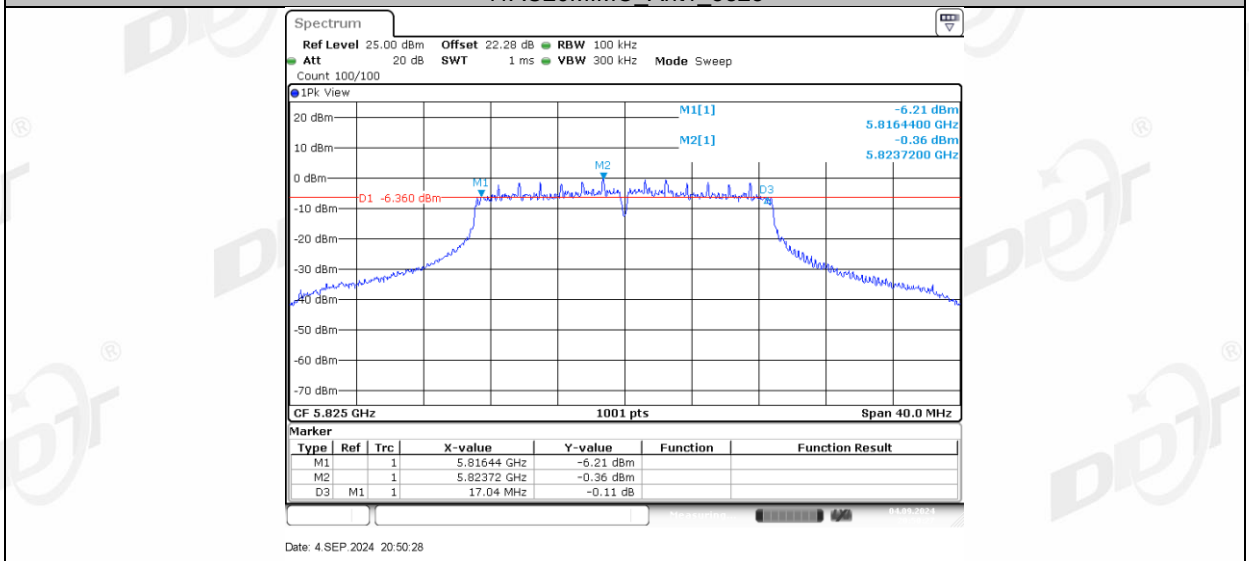
**11AC20MIMO\_Ant1\_5785**



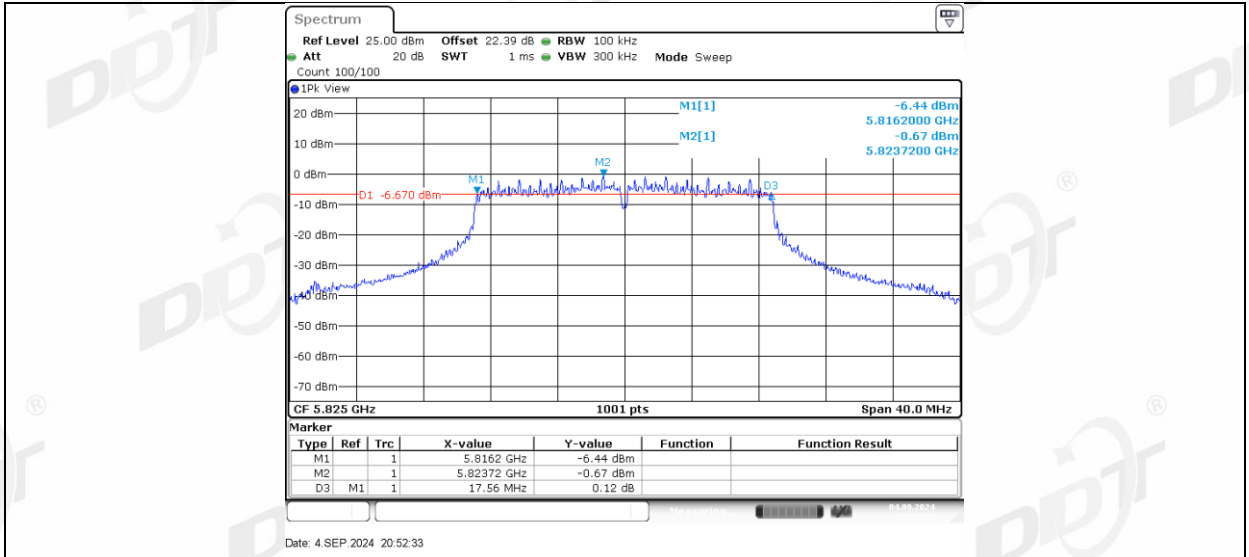
11AC20MIMO\_Ant2\_5785



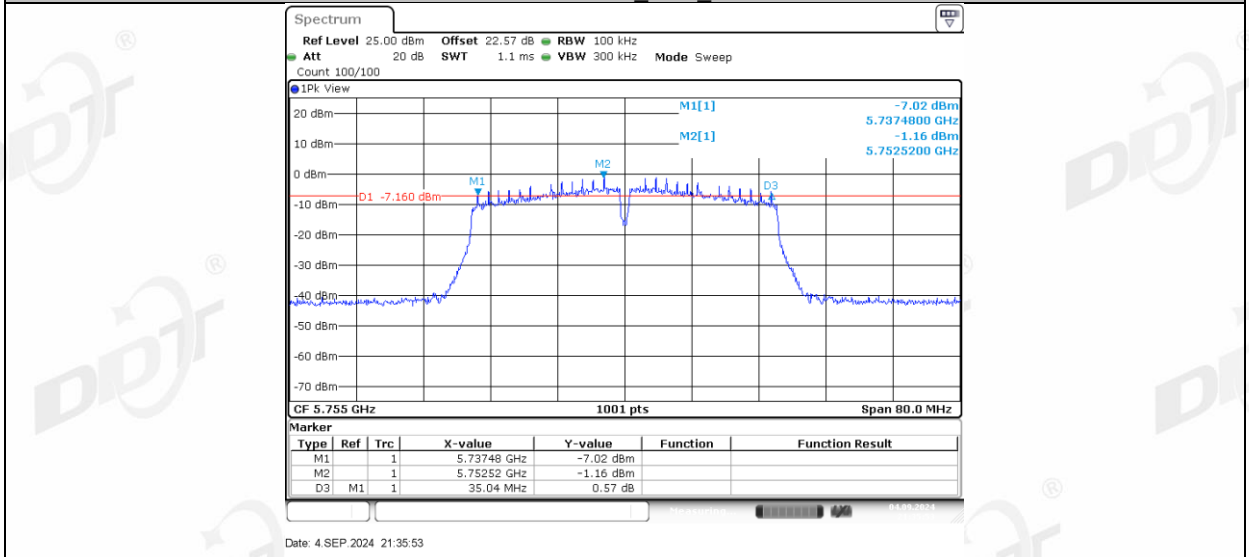
11AC20MIMO\_Ant1\_5825



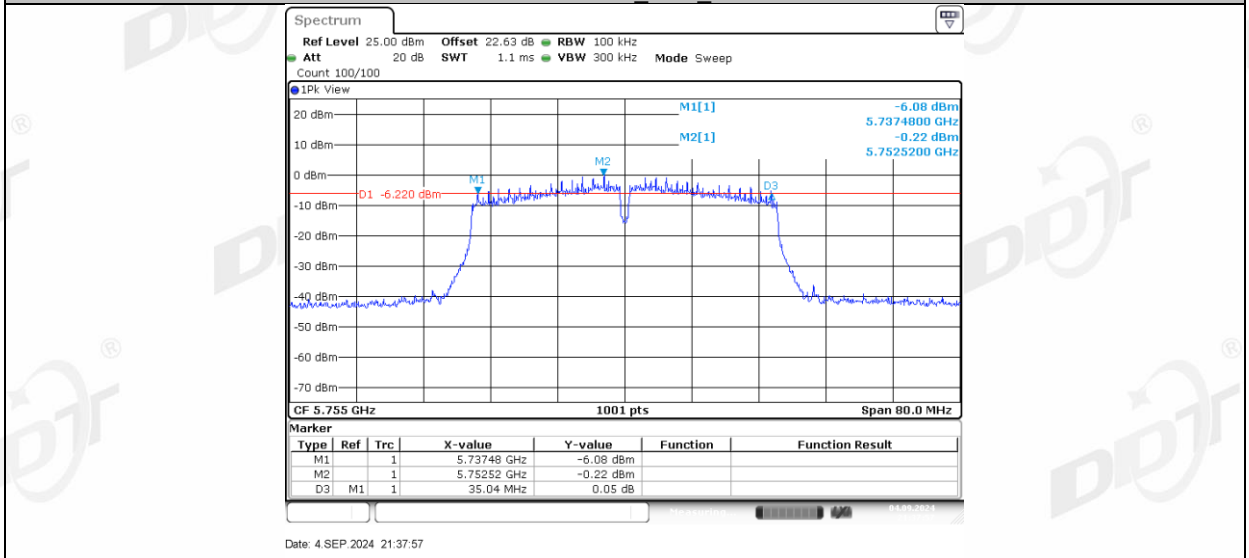
11AC20MIMO\_Ant2\_5825



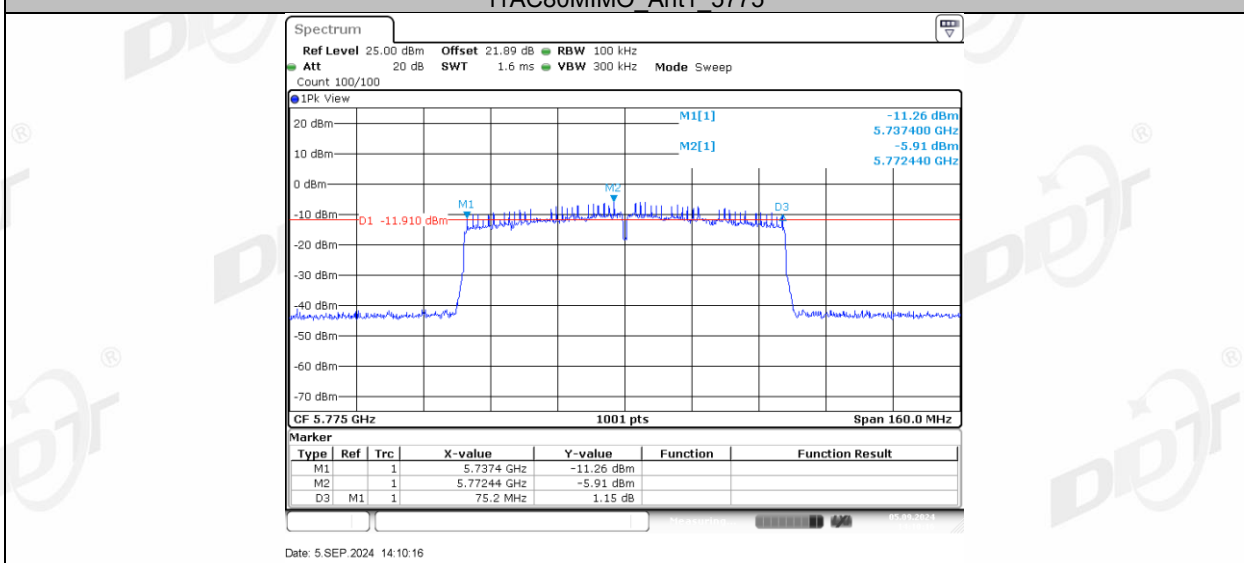
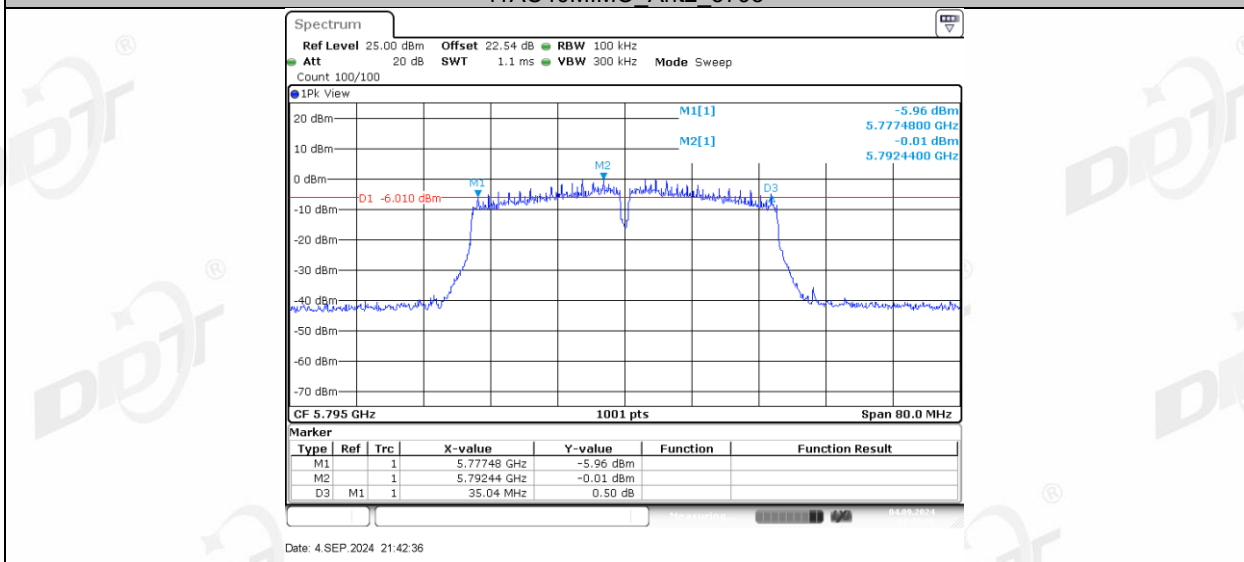
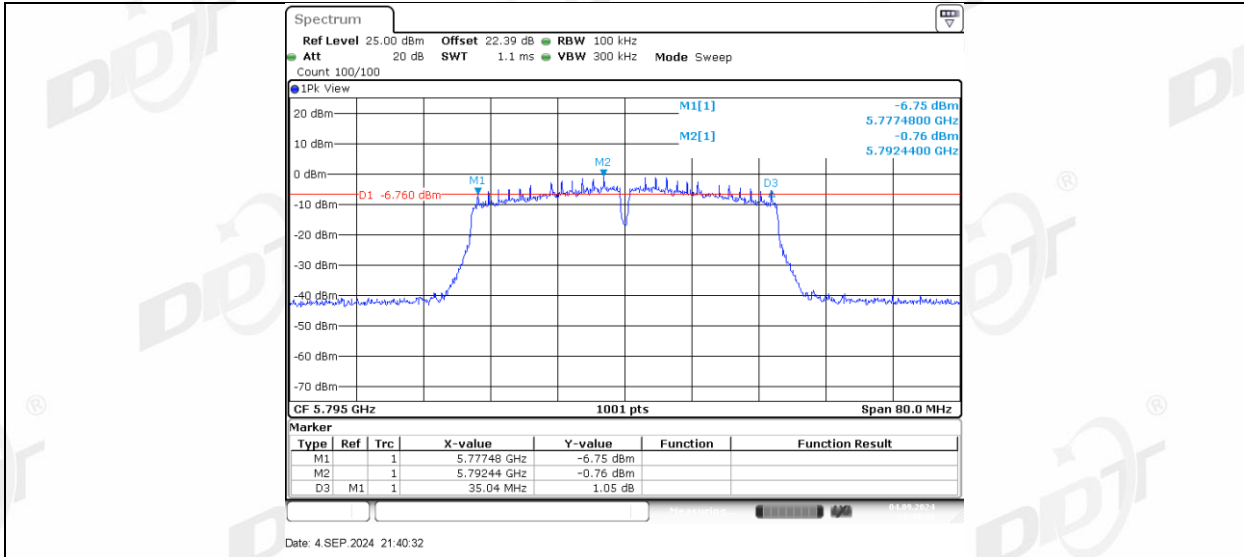
11AC40MIMO\_Ant1\_5755

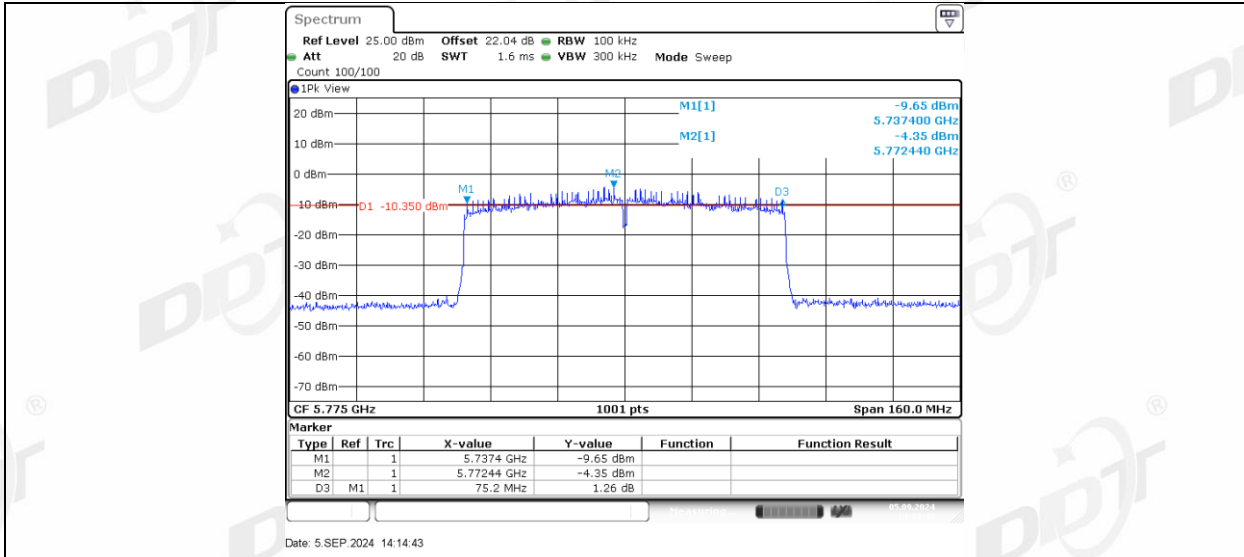


11AC40MIMO\_Ant2\_5755

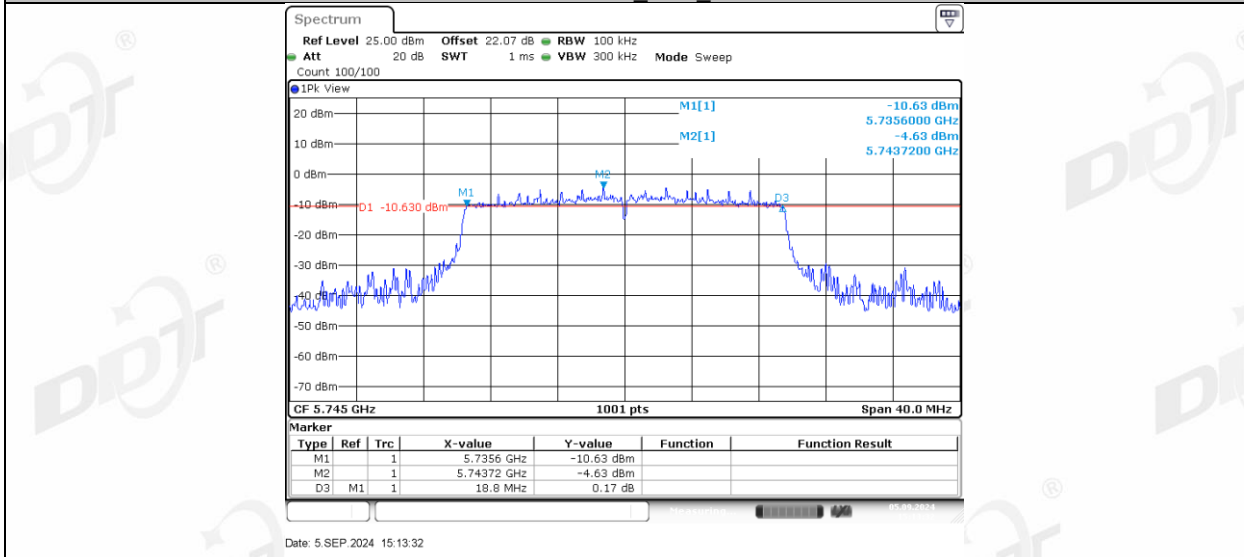


11AC40MIMO\_Ant1\_5795

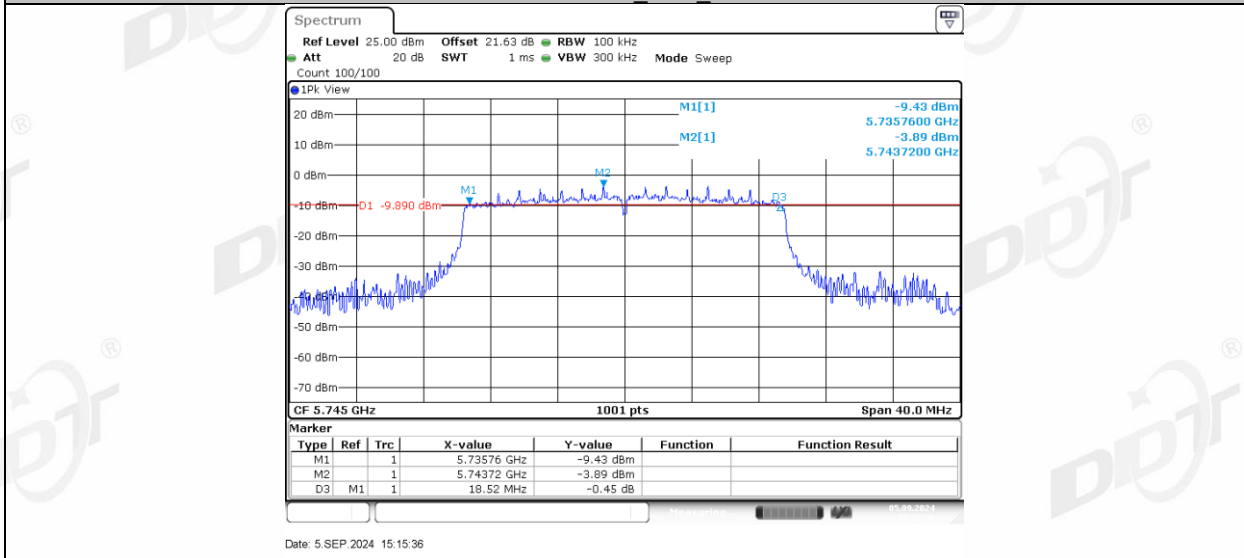




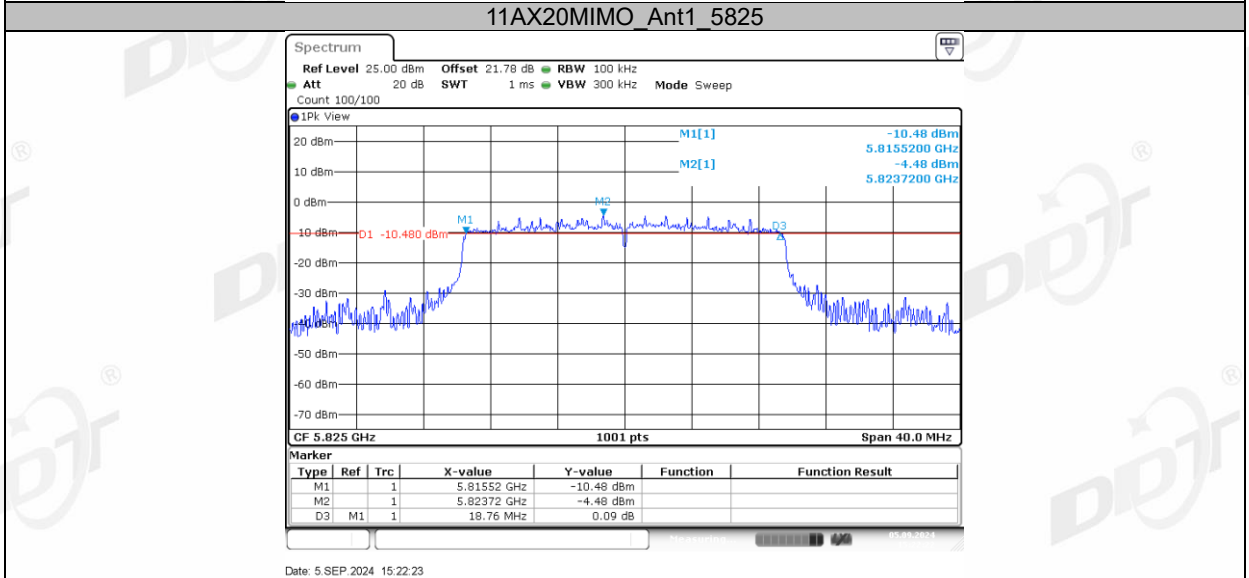
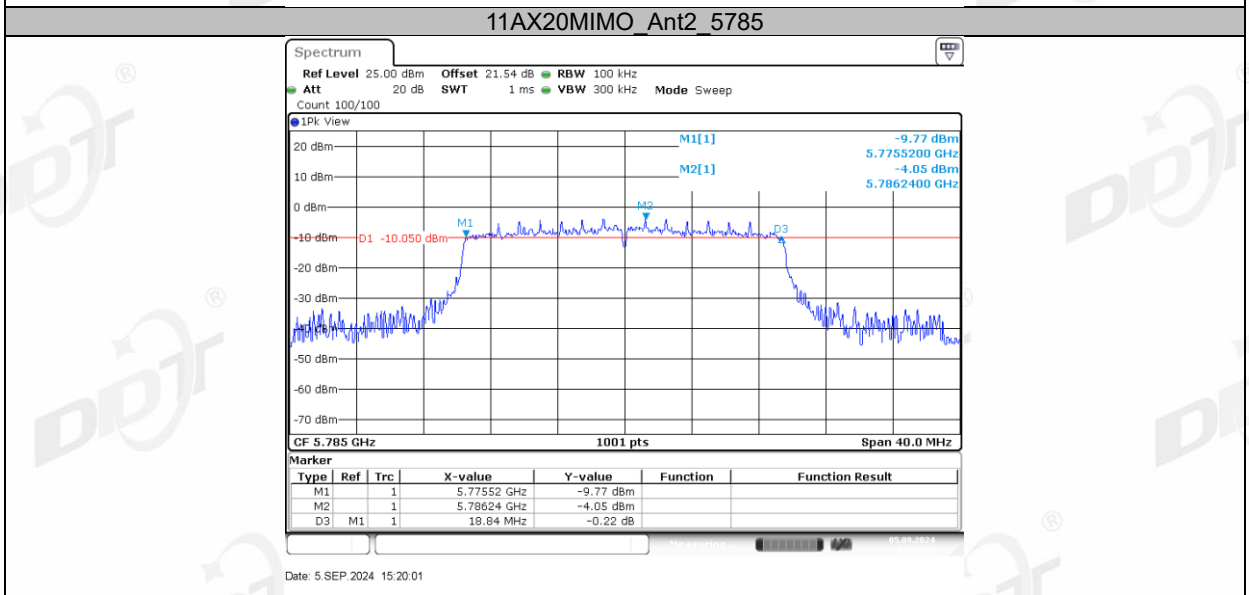
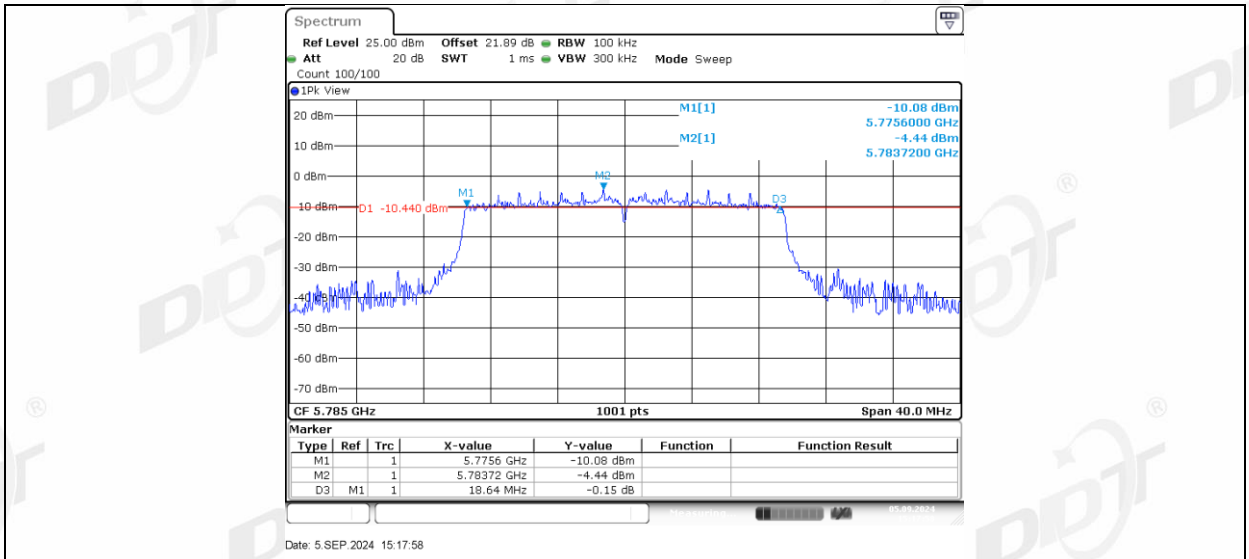
11AX20MIMO\_Ant1\_5745

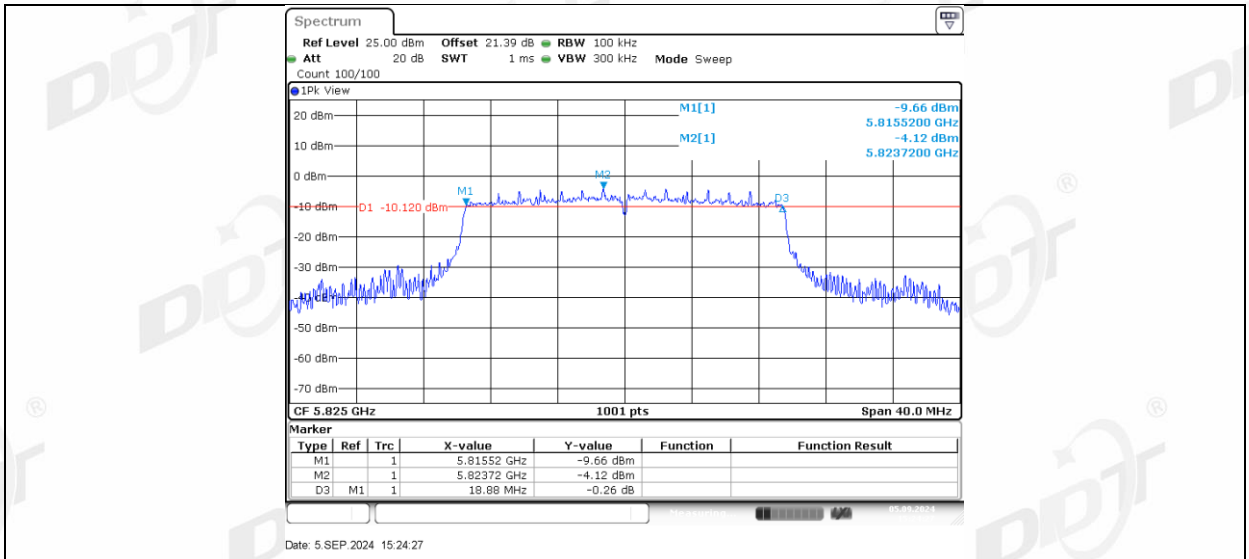


11AX20MIMO\_Ant2\_5745

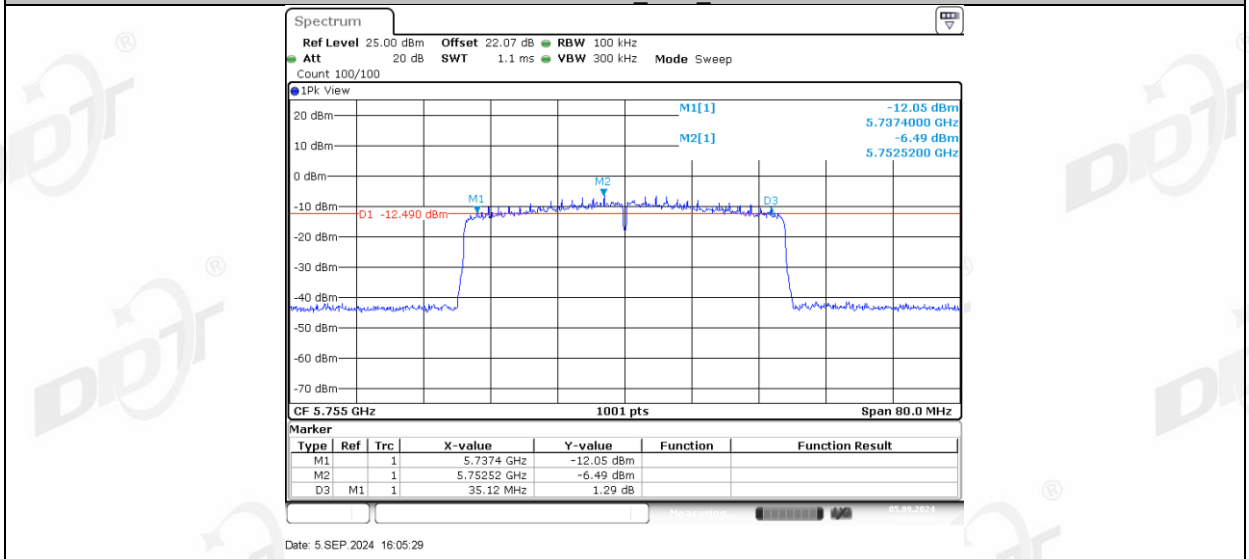


11AX20MIMO\_Ant1\_5785

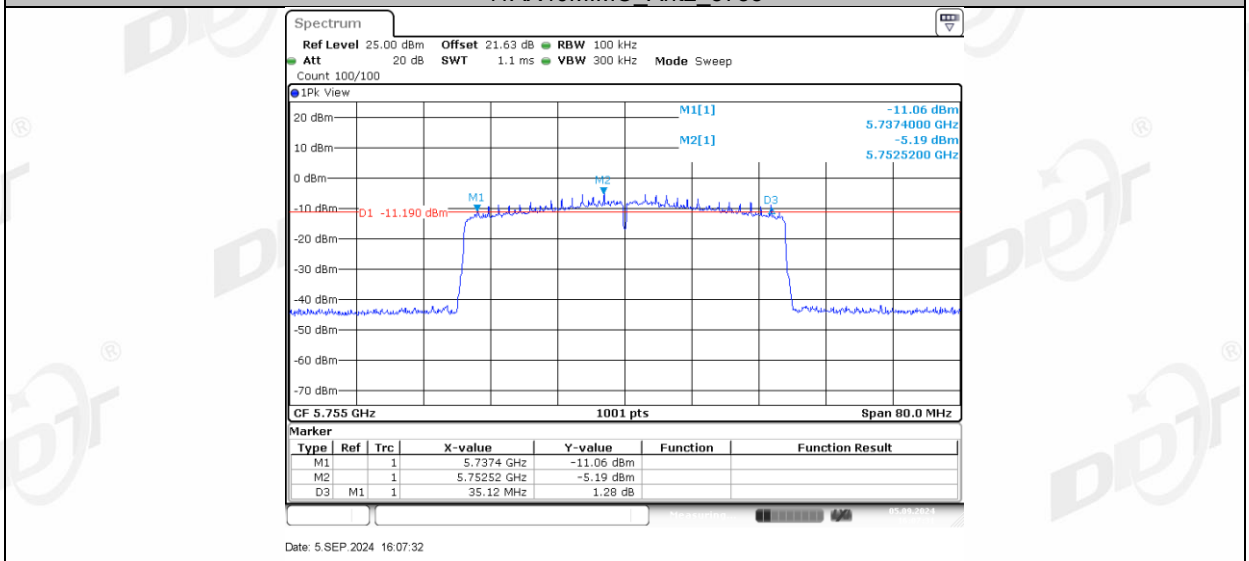




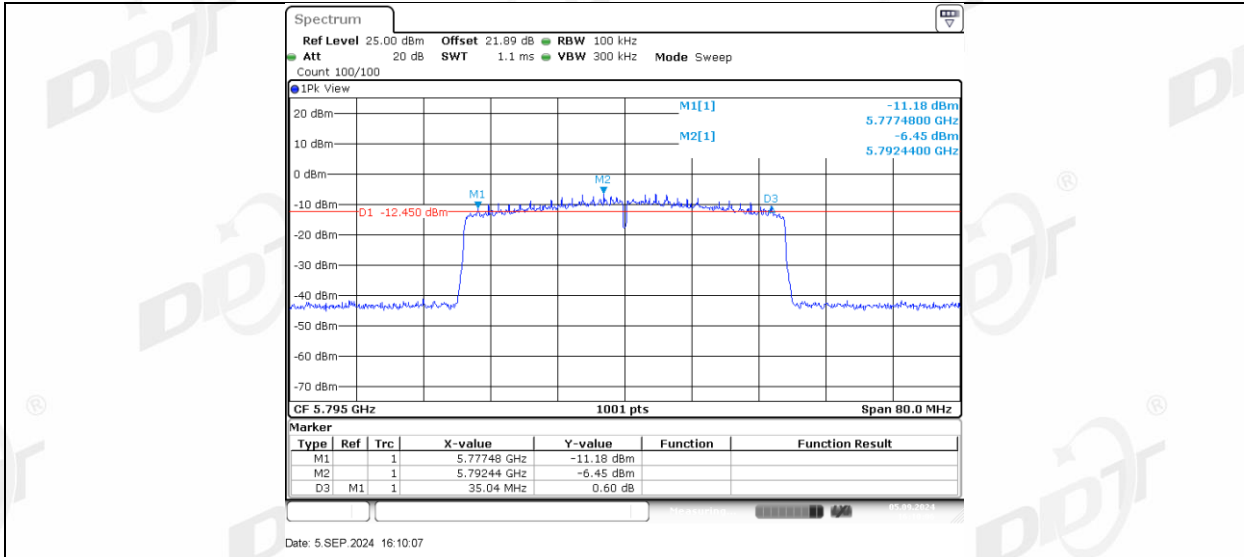
11AX40MIMO\_Ant1\_5755



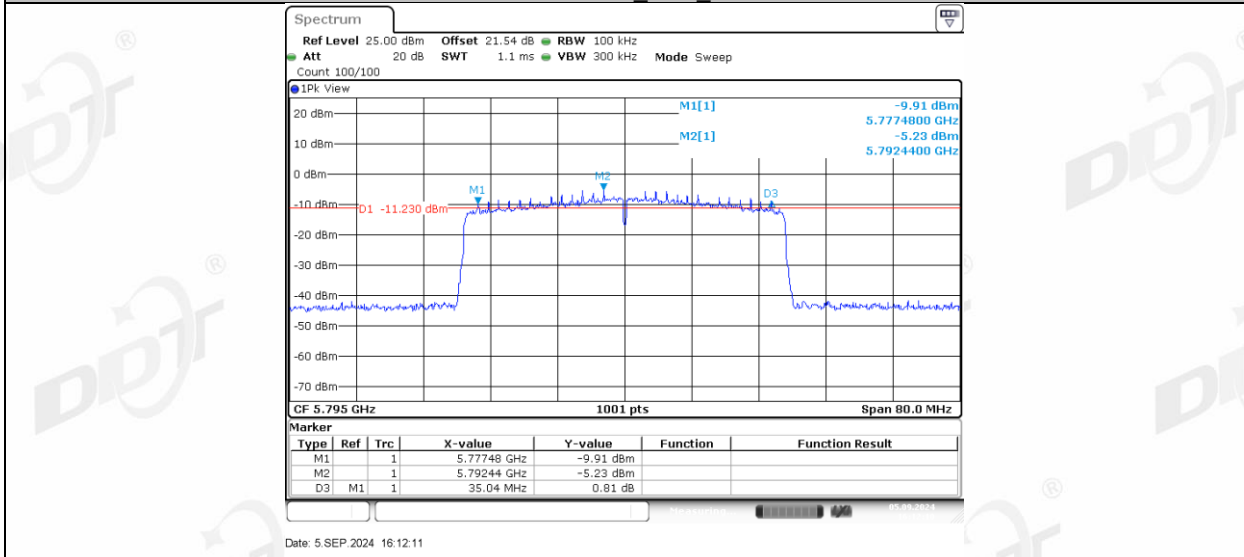
11AX40MIMO\_Ant2\_5755



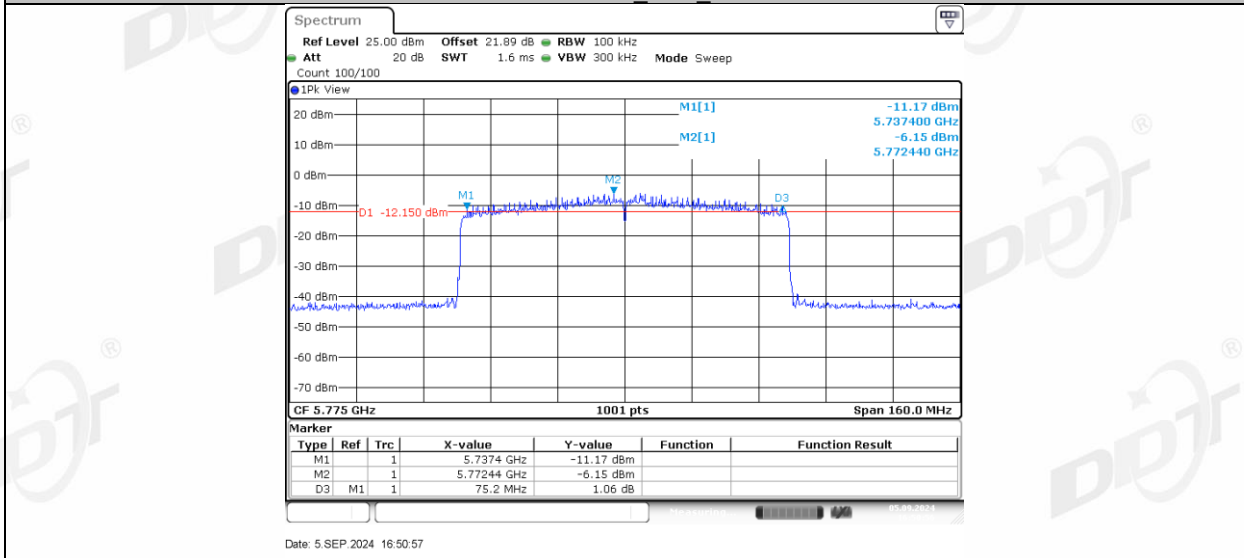
11AX40MIMO\_Ant1\_5795



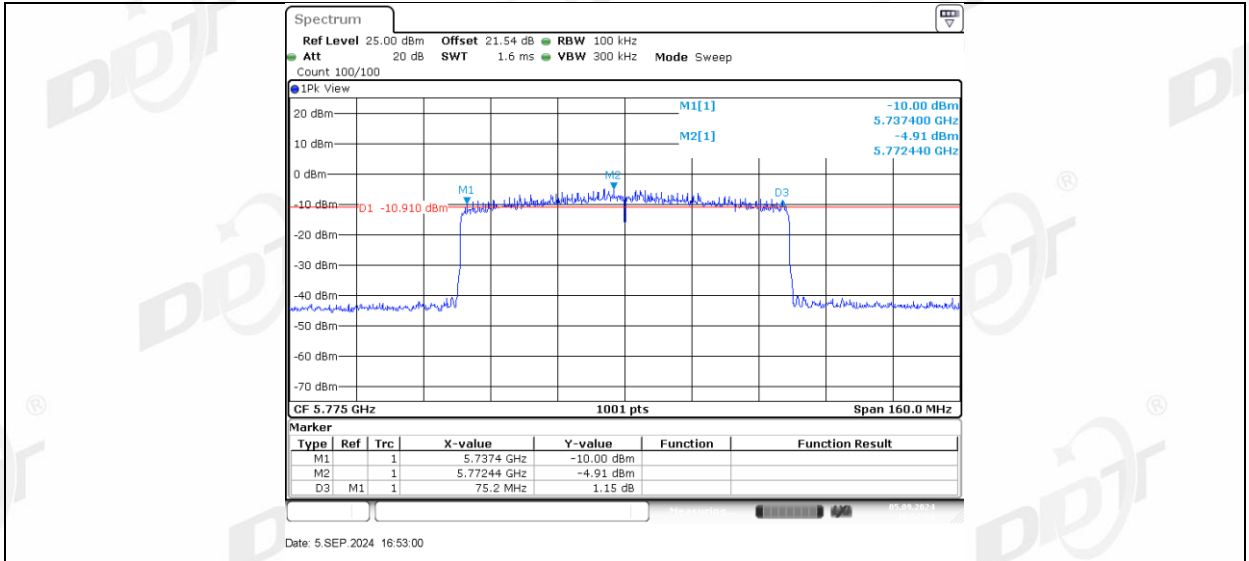
11AX40MIMO\_Ant2\_5795



11AX80MIMO\_Ant1\_5775

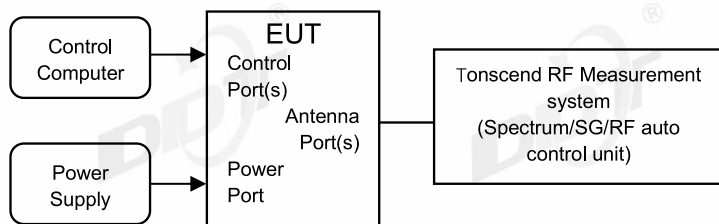


11AX80MIMO\_Ant2\_5775



## 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:	24.6-27.2℃,42.9-46.7%RH	Test Date:	2024.09.04-2024.09.11
Test Power Supply:	AC 120V/60Hz	Sample Number:	S24081429-001

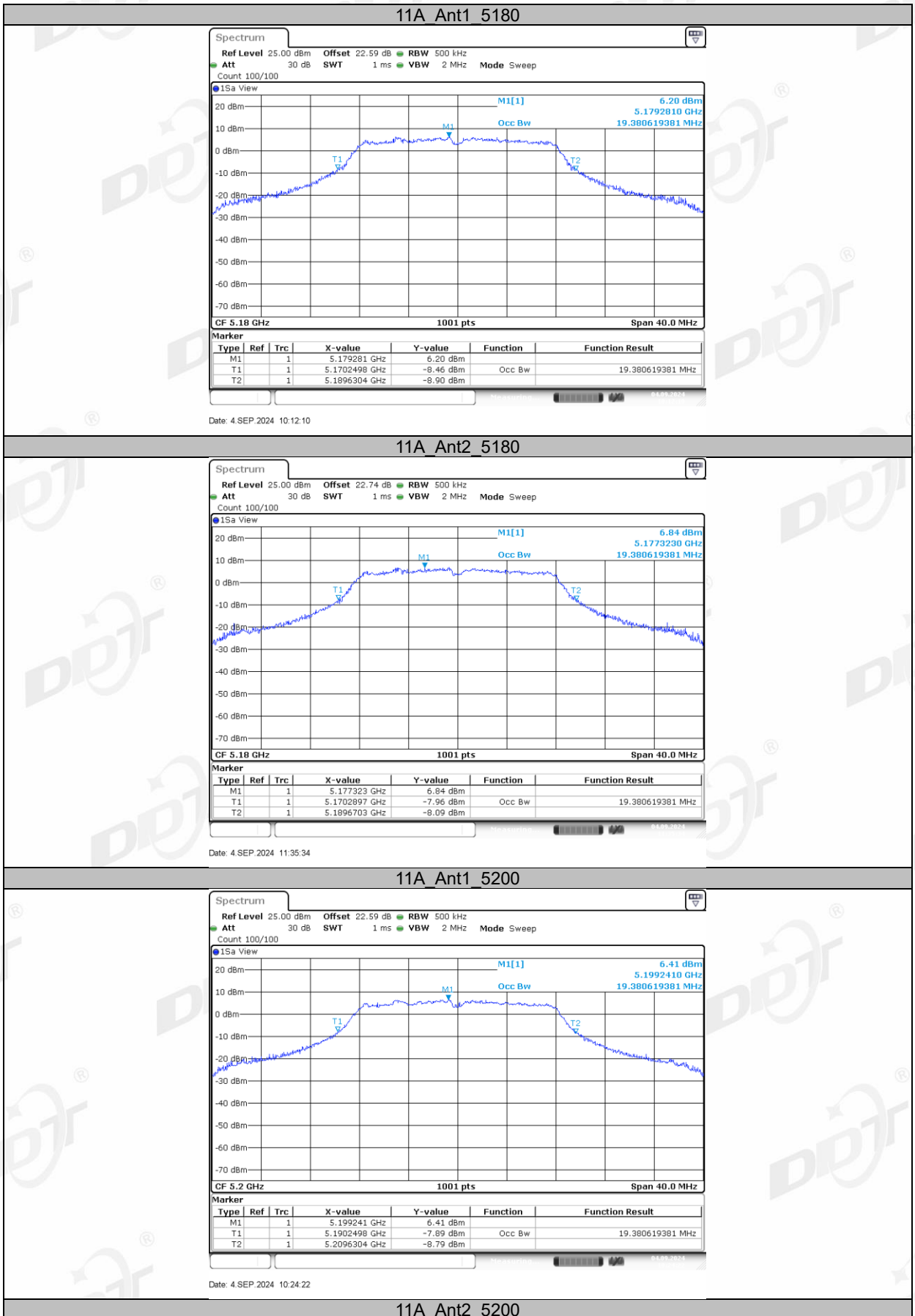
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict	
11A	Ant1	5180	19.381	5170.2498	5189.6304	---	---	
	Ant2	5180	19.381	5170.2897	5189.6703	---	---	
	Ant1	5200	19.381	5190.2498	5209.6304	---	---	
	Ant2	5200	19.341	5190.2897	5209.6304	---	---	
	Ant1	5240	17.223	5231.3686	5248.5914	---	---	
	Ant2	5240	17.223	5231.3287	5248.5514	---	---	
	Ant1	5260	19.421	5250.2098	5269.6304	---	---	
	Ant2	5260	19.341	5250.2498	5269.5904	---	---	
	Ant1	5280	19.301	5270.2498	5289.5504	---	---	
	Ant2	5280	19.301	5270.2498	5289.5504	---	---	
	Ant1	5320	19.421	5310.1299	5329.5504	---	---	
	Ant2	5320	19.54	5310.0899	5329.6304	---	---	
	Ant1	5500	19.421	5490.2098	5509.6304	---	---	
	Ant2	5500	19.461	5490.1698	5509.6304	---	---	
	Ant1	5580	19.261	5570.2498	5589.5105	---	---	
	Ant2	5580	19.301	5570.2897	5589.5904	---	---	
	Ant1	5700	19.461	5690.2098	5709.6703	---	---	
	Ant2	5700	19.54	5690.2098	5709.7502	---	---	
	Ant1	5720	19.261	5710.2098	5729.4705	---	---	
	Ant2	5720	19.221	5710.2897	5729.5105	---	---	
	Ant1	5720 UNII-2C	14.79	5710.2098	5725	---	---	
	Ant2	5720 UNII-2C	14.71	5710.2897	5725	---	---	
	Ant1	5720 UNII-3	4.471	5725	5729.4705	---	---	
	Ant2	5720 UNII-3	4.511	5725	5729.5105	---	---	
	Ant1	5745	19.58	5735.1698	5754.7502	---	---	
	Ant2	5745	19.66	5735.1299	5754.7902	---	---	
	Ant1	5785	19.58	5775.2098	5794.7902	---	---	
	Ant2	5785	19.5	5775.2098	5794.7103	---	---	
	Ant1	5825	19.54	5815.1299	5834.6703	---	---	
	Ant2	5825	19.58	5815.0899	5834.6703	---	---	
	11N20MIMO	Ant1	5180	20.26	5169.8901	5190.1499	---	---
		Ant2	5180	18.661	5170.5295	5189.1908	---	---
Ant1		5200	20.42	5189.7702	5210.1898	---	---	
Ant2		5200	18.621	5190.5694	5209.1908	---	---	
Ant1		5240	18.062	5230.9291	5248.9910	---	---	
Ant2		5240	17.782	5231.0490	5248.8312	---	---	
Ant1		5260	20.34	5249.8501	5270.1898	---	---	
Ant2		5260	18.661	5250.5694	5269.2308	---	---	
Ant1		5280	20.34	5269.8501	5290.1898	---	---	
Ant2		5280	18.621	5270.5295	5289.1508	---	---	
Ant1		5320	19.86	5310.1698	5330.0300	---	---	
Ant2		5320	18.701	5310.4895	5329.1908	---	---	
Ant1		5500	20.38	5489.8102	5510.1898	---	---	
Ant2		5500	18.701	5490.5295	5509.2308	---	---	
Ant1		5580	20.42	5569.7702	5590.1898	---	---	
Ant2		5580	18.661	5570.4895	5589.1508	---	---	
Ant1		5700	20.42	5689.7702	5710.1898	---	---	
Ant2		5700	18.741	5690.4895	5709.2308	---	---	
Ant1		5720	20.18	5709.8102	5729.9900	---	---	
Ant2		5720	18.541	5710.6094	5729.1508	---	---	
Ant1		5720 UNII-2C	15.19	5709.8102	5725	---	---	
Ant2		5720 UNII-2C	14.391	5710.6094	5725	---	---	
Ant1		5720 UNII-3	4.99	5725	5729.9900	---	---	
Ant2		5720 UNII-3	4.151	5725	5729.1508	---	---	
Ant1	5745	20.659	5734.6903	5755.3497	---	---		

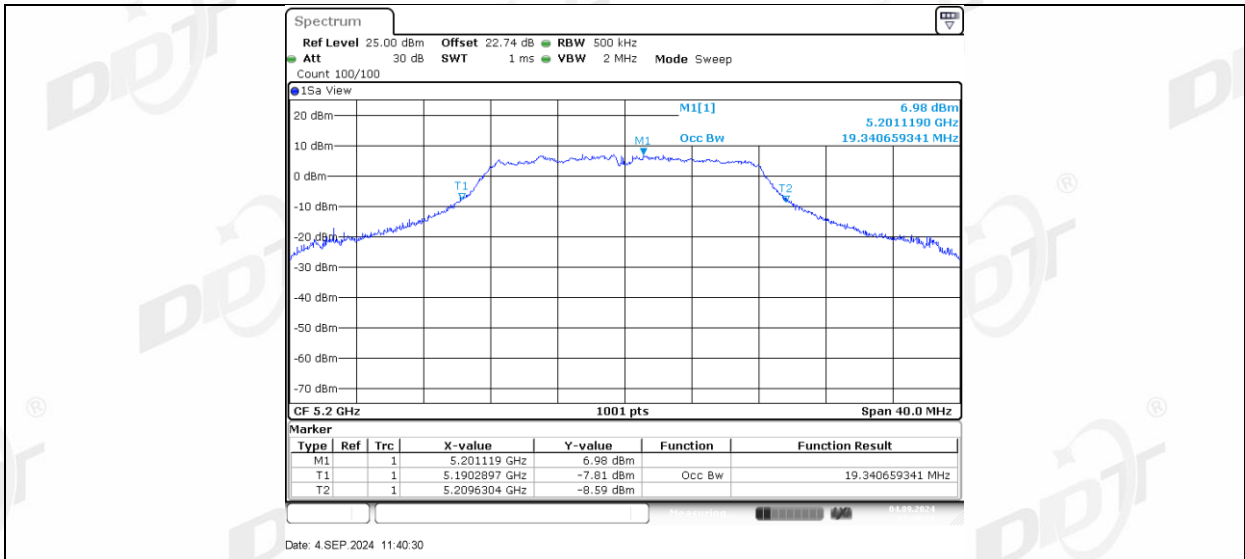
	Ant2	5745	18.781	5735.4895	5754.2707	---	---	
	Ant1	5785	20.579	5774.7702	5795.3497	---	---	
	Ant2	5785	18.781	5775.5295	5794.3107	---	---	
	Ant1	5825	20.619	5814.6903	5835.3097	---	---	
	Ant2	5825	18.781	5815.4496	5834.2308	---	---	
11N40MIMO	Ant1	5190	36.044	5172.0180	5208.0619	---	---	
	Ant2	5190	36.124	5171.9381	5208.0619	---	---	
	Ant1	5230	36.044	5212.0180	5248.0619	---	---	
	Ant2	5230	36.044	5211.9381	5247.9820	---	---	
	Ant1	5270	36.044	5252.0180	5288.0619	---	---	
	Ant2	5270	36.044	5251.9381	5287.9820	---	---	
	Ant1	5310	36.044	5291.9381	5327.9820	---	---	
	Ant2	5310	36.124	5291.8581	5327.9820	---	---	
	Ant1	5510	36.124	5491.9381	5528.0619	---	---	
	Ant2	5510	36.124	5491.8581	5527.9820	---	---	
	Ant1	5550	36.204	5531.7782	5567.9820	---	---	
	Ant2	5550	36.204	5531.8581	5568.0619	---	---	
	Ant1	5670	36.204	5651.8581	5688.0619	---	---	
	Ant2	5670	36.044	5651.9381	5687.9820	---	---	
	Ant1	5710	35.884	5692.0180	5727.9021	---	---	
	Ant2	5710	36.124	5691.9381	5728.0619	---	---	
	Ant1	5710 UNII-2C	32.982	5692.0180	5725	---	---	
	Ant2	5710 UNII-2C	33.062	5691.9381	5725	---	---	
	Ant1	5710 UNII-3	2.902	5725	5727.9021	---	---	
	Ant2	5710 UNII-3	3.062	5725	5728.0619	---	---	
	Ant1	5755	35.964	5737.0180	5772.9820	---	---	
	Ant2	5755	36.044	5736.9381	5772.9820	---	---	
	Ant1	5795	35.964	5777.0180	5812.9820	---	---	
	Ant2	5795	35.964	5777.0180	5812.9820	---	---	
	11AC20MIMO	Ant1	5180	19.82	5170.0899	5189.9101	---	---
		Ant2	5180	18.342	5170.8492	5189.1908	---	---
		Ant1	5200	19.9	5190.0500	5209.9500	---	---
		Ant2	5200	18.302	5190.8891	5209.1908	---	---
		Ant1	5240	17.942	5231.0090	5248.9510	---	---
		Ant2	5240	17.622	5231.1289	5248.7512	---	---
Ant1		5260	19.9	5250.0100	5269.9101	---	---	
Ant2		5260	18.222	5250.9291	5269.1508	---	---	
Ant1		5280	19.74	5270.0899	5289.8302	---	---	
Ant2		5280	18.222	5270.8891	5289.1109	---	---	
Ant1		5320	19.94	5309.9301	5329.8701	---	---	
Ant2		5320	18.382	5310.8092	5329.1908	---	---	
Ant1		5500	19.94	5490.0100	5509.9500	---	---	
Ant2		5500	18.342	5490.8492	5509.1908	---	---	
Ant1		5580	19.74	5570.0500	5589.7902	---	---	
Ant2		5580	18.222	5570.8891	5589.1109	---	---	
Ant1		5700	19.9	5690.0500	5709.9500	---	---	
Ant2		5700	18.342	5690.8492	5709.1908	---	---	
Ant1		5720	19.82	5709.9700	5729.7902	---	---	
Ant2		5720	18.222	5710.8891	5729.1109	---	---	
Ant1		5720 UNII-2C	15.03	5709.9700	5725	---	---	
Ant2		5720 UNII-2C	14.111	5710.8891	5725	---	---	
Ant1		5720 UNII-3	4.79	5725	5729.7902	---	---	
Ant2		5720 UNII-3	4.111	5725	5729.1109	---	---	
Ant1		5745	19.82	5735.0899	5754.9101	---	---	
Ant2		5745	18.262	5735.8891	5754.1508	---	---	
Ant1		5785	19.9	5775.0899	5794.9900	---	---	
Ant2		5785	18.262	5775.9291	5794.1908	---	---	
Ant1		5825	19.86	5815.0100	5834.8701	---	---	
Ant2		5825	18.262	5815.8891	5834.1508	---	---	
11AC40MIMO	Ant1	5190	35.804	5172.0979	5207.9021	---	---	
	Ant2	5190	36.044	5172.0180	5208.0619	---	---	
	Ant1	5230	35.884	5212.0979	5247.9820	---	---	
	Ant2	5230	35.964	5212.0180	5247.9820	---	---	
	Ant1	5270	35.804	5252.0979	5287.9021	---	---	

	Ant2	5270	36.124	5251.9381	5288.0619	---	---
	Ant1	5310	35.884	5292.0180	5327.9021	---	---
	Ant2	5310	36.204	5291.8581	5328.0619	---	---
	Ant1	5510	35.884	5492.0180	5527.9021	---	---
	Ant2	5510	36.044	5491.9381	5527.9820	---	---
	Ant1	5550	35.884	5532.0180	5567.9021	---	---
	Ant2	5550	36.204	5531.8581	5568.0619	---	---
	Ant1	5670	35.884	5652.0180	5687.9021	---	---
	Ant2	5670	36.204	5651.9381	5688.1419	---	---
	Ant1	5710	35.884	5692.0180	5727.9021	---	---
	Ant2	5710	36.124	5691.9381	5728.0619	---	---
	Ant1	5710 UNII-2C	32.982	5692.0180	5725	---	---
	Ant2	5710 UNII-2C	33.062	5691.9381	5725	---	---
	Ant1	5710 UNII-3	2.902	5725	5727.9021	---	---
	Ant2	5710 UNII-3	3.062	5725	5728.0619	---	---
	Ant1	5755	35.884	5737.0180	5772.9021	---	---
	Ant2	5755	36.124	5736.9381	5773.0619	---	---
	Ant1	5795	35.804	5777.0979	5812.9021	---	---
	Ant2	5795	36.124	5776.9381	5813.0619	---	---
	11AC80MIMO	Ant1	5210	75.125	5172.4376	5247.5624	---
Ant2		5210	74.965	5172.5974	5247.5624	---	---
Ant1		5290	75.125	5252.5974	5327.7223	---	---
Ant2		5290	75.125	5252.4376	5327.5624	---	---
Ant1		5530	75.285	5492.2777	5567.5624	---	---
Ant2		5530	75.125	5492.5974	5567.7223	---	---
Ant1		5610	75.445	5572.2777	5647.7223	---	---
Ant2		5610	75.125	5572.4376	5647.5624	---	---
Ant1		5690	75.125	5652.2777	5727.4026	---	---
Ant2		5690	74.965	5652.5974	5727.5624	---	---
Ant1		5690 UNII-2C	72.722	5652.2777	5725	---	---
Ant2		5690 UNII-2C	72.403	5652.5974	5725	---	---
Ant1		5690 UNII-3	2.403	5725	5727.4026	---	---
Ant2		5690 UNII-3	2.562	5725	5727.5624	---	---
11AX20MIMO	Ant1	5180	19.381	5170.2897	5189.6703	---	---
	Ant2	5180	19.261	5170.3297	5189.5904	---	---
	Ant1	5200	19.381	5190.2498	5209.6304	---	---
	Ant2	5200	19.341	5190.2498	5209.5904	---	---
	Ant1	5240	18.901	5230.5295	5249.4306	---	---
	Ant2	5240	18.901	5230.5295	5249.4306	---	---
	Ant1	5260	19.421	5250.2498	5269.6703	---	---
	Ant2	5260	19.381	5250.2498	5269.6304	---	---
	Ant1	5280	19.421	5270.2897	5289.7103	---	---
	Ant2	5280	19.341	5270.2897	5289.6304	---	---
	Ant1	5320	19.461	5310.2498	5329.7103	---	---
	Ant2	5320	19.301	5310.2897	5329.5904	---	---
	Ant1	5500	19.461	5490.2098	5509.6703	---	---
	Ant2	5500	19.301	5490.3297	5509.6304	---	---
	Ant1	5580	19.421	5570.2098	5589.6304	---	---
	Ant2	5580	19.341	5570.2498	5589.5904	---	---
	Ant1	5700	19.381	5690.2897	5709.6703	---	---
	Ant2	5700	19.301	5690.3297	5709.6304	---	---
	Ant1	5720	19.421	5710.2098	5729.6304	---	---
	Ant2	5720	19.341	5710.2897	5729.6304	---	---
	Ant1	5720 UNII-2C	14.79	5710.2098	5725	---	---
	Ant2	5720 UNII-2C	14.71	5710.2897	5725	---	---
	Ant1	5720 UNII-3	4.63	5725	5729.6304	---	---
	Ant2	5720 UNII-3	4.63	5725	5729.6304	---	---
	Ant1	5745	19.461	5735.2498	5754.7103	---	---
	Ant2	5745	19.341	5735.3297	5754.6703	---	---
	Ant1	5785	19.421	5775.2498	5794.6703	---	---
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	Ant1	5825	19.421	5815.2498	5834.6703	---	---

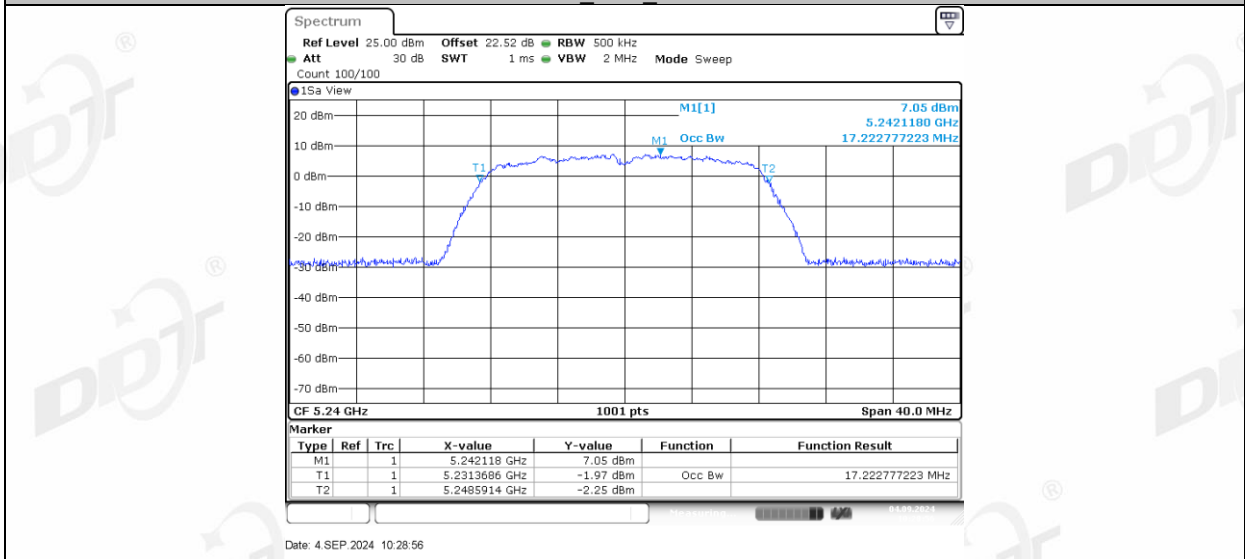
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	Ant2	5190	37.562	5171.2188	5208.7812	---	---
	Ant1	5230	37.562	5211.2188	5248.7812	---	---
	Ant2	5230	37.642	5211.2188	5248.8611	---	---
	Ant1	5270	37.642	5251.2188	5288.8611	---	---
	Ant2	5270	37.642	5251.1389	5288.7812	---	---
	Ant1	5310	37.722	5291.1389	5328.8611	---	---
	Ant2	5310	37.642	5291.2188	5328.8611	---	---
	Ant1	5510	37.642	5491.1389	5528.7812	---	---
	Ant2	5510	37.642	5491.2188	5528.8611	---	---
	Ant1	5550	37.642	5531.1389	5568.7812	---	---
	Ant2	5550	37.562	5531.2188	5568.7812	---	---
	Ant1	5670	37.642	5651.1389	5688.7812	---	---
	Ant2	5670	37.722	5651.1389	5688.8611	---	---
	Ant1	5710	37.642	5691.1389	5728.7812	---	---
	Ant2	5710	37.642	5691.1389	5728.7812	---	---
	Ant1	5710 UNII-2C	33.861	5691.1389	5725	---	---
	Ant2	5710 UNII-2C	33.861	5691.1389	5725	---	---
	Ant1	5710 UNII-3	3.781	5725	5728.7812	---	---
	Ant2	5710 UNII-3	3.781	5725	5728.7812	---	---
	Ant1	5755	37.642	5736.1389	5773.7812	---	---
	Ant2	5755	37.562	5736.2188	5773.7812	---	---
	Ant1	5795	37.642	5776.1389	5813.7812	---	---
Ant2	5795	37.642	5776.2188	5813.8611	---	---	
11AX80MIMO	Ant1	5210	76.883	5171.4785	5248.3616	---	---
	Ant2	5210	77.203	5171.3187	5248.5215	---	---
	Ant1	5290	77.043	5251.6384	5328.6813	---	---
	Ant2	5290	77.043	5251.3187	5328.3616	---	---
	Ant1	5530	77.043	5491.4785	5568.5215	---	---
	Ant2	5530	77.203	5491.4785	5568.6813	---	---
	Ant1	5610	77.203	5571.3187	5648.5215	---	---
	Ant2	5610	77.363	5571.3187	5648.6813	---	---
	Ant1	5690	77.043	5651.3187	5728.3616	---	---
	Ant2	5690	77.363	5651.3187	5728.6813	---	---
	Ant1	5690 UNII-2C	73.681	5651.3187	5725	---	---
	Ant2	5690 UNII-2C	73.681	5651.3187	5725	---	---
	Ant1	5690 UNII-3	3.362	5725	5728.3616	---	---
	Ant2	5690 UNII-3	3.681	5725	5728.6813	---	---
	Ant1	5775	77.043	5736.4785	5813.5215	---	---
	Ant2	5775	77.043	5736.4785	5813.5215	---	---

6.5. Test graphs

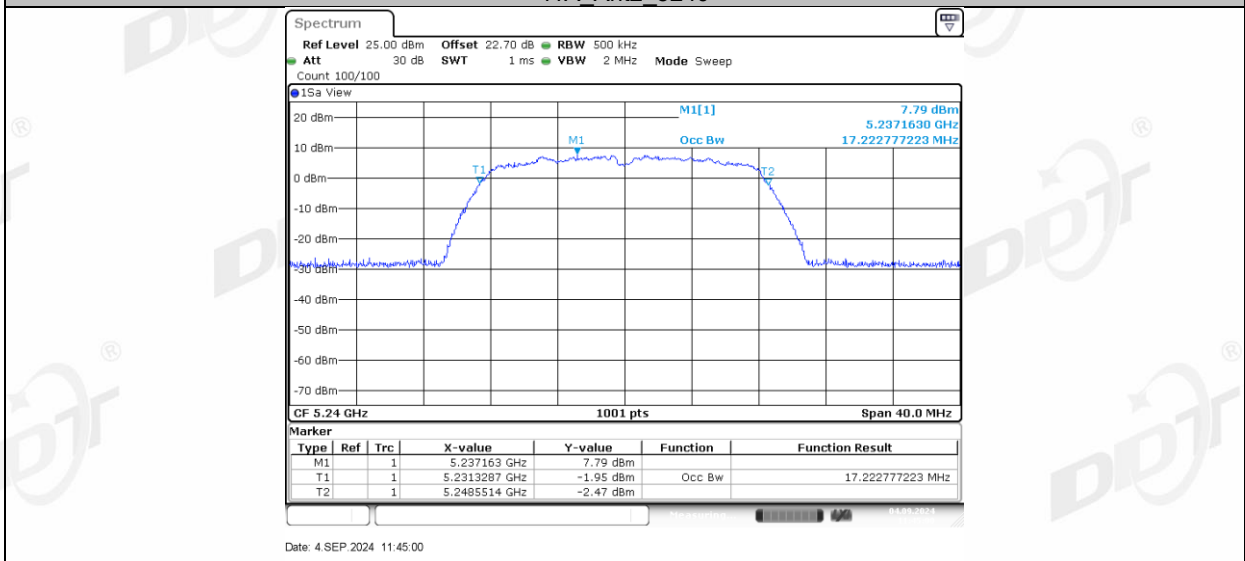




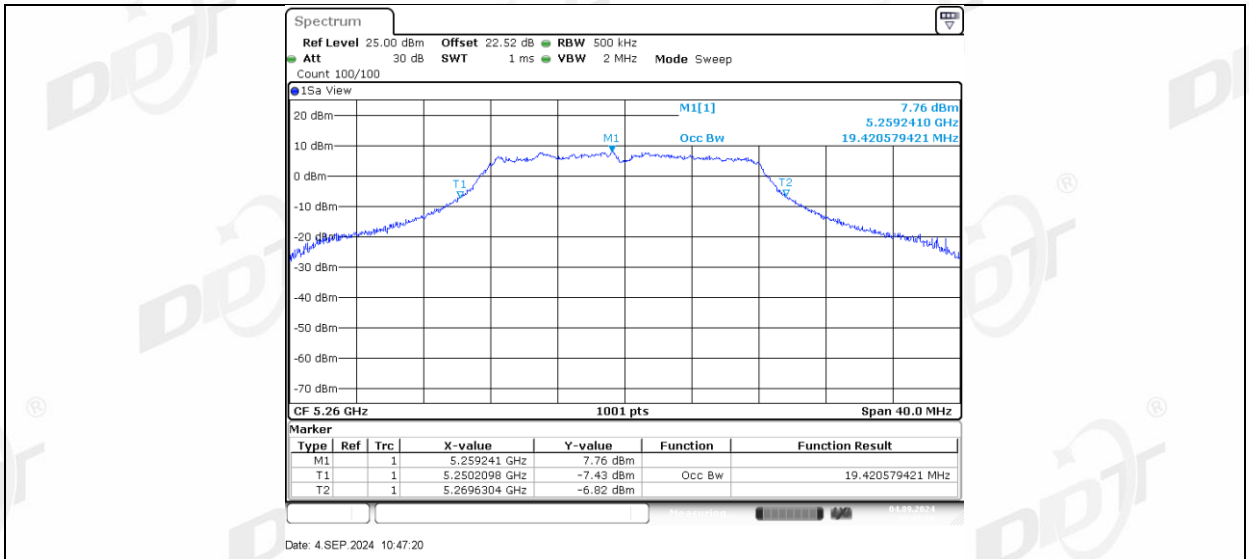
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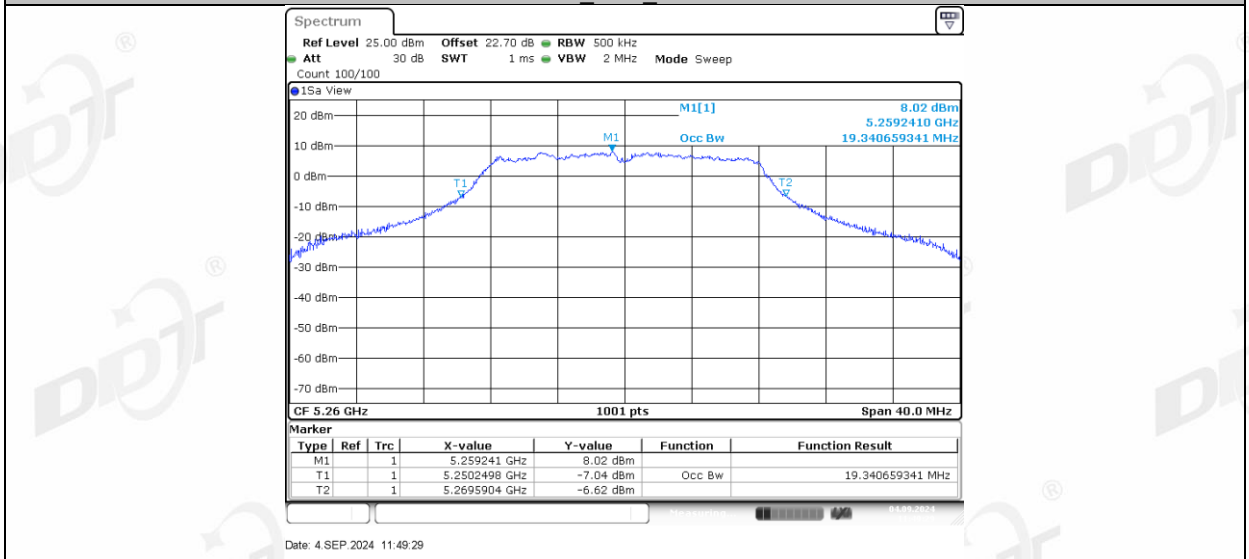
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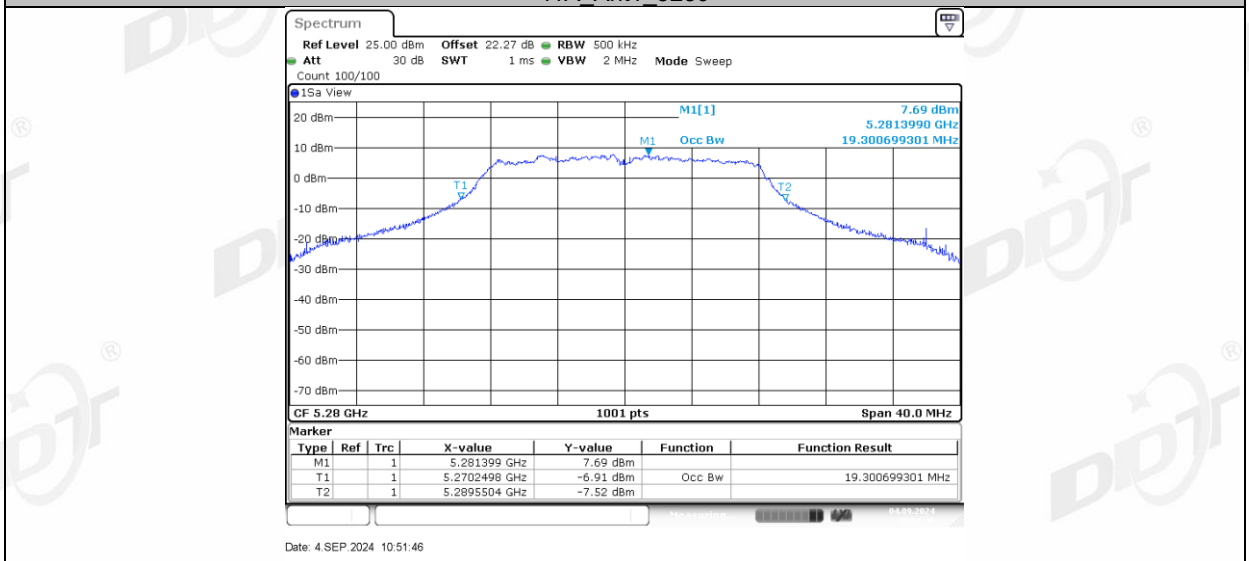
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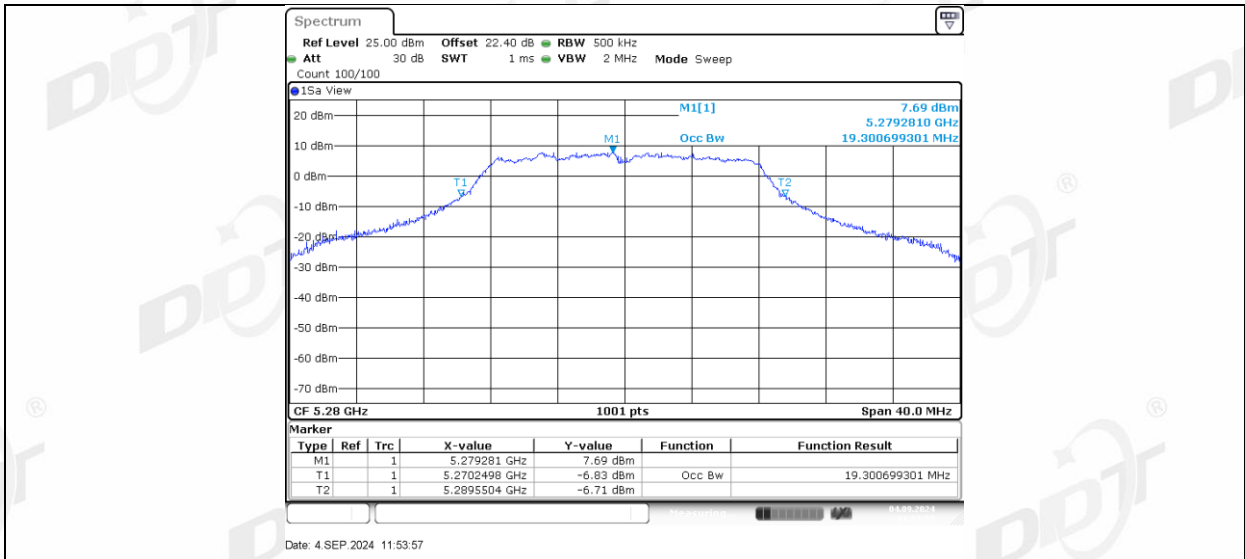
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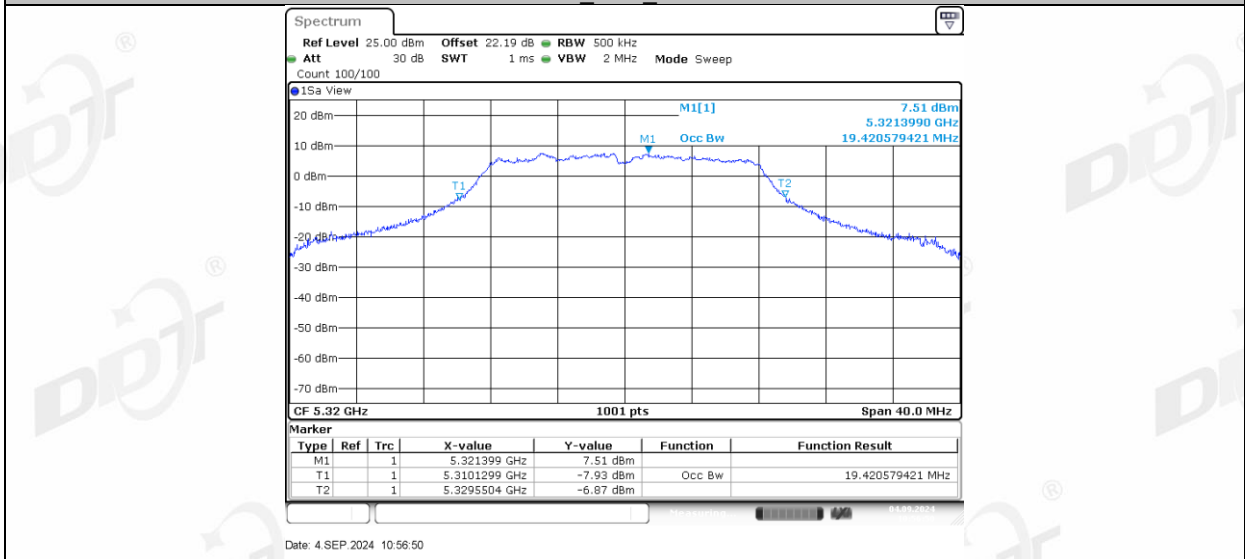
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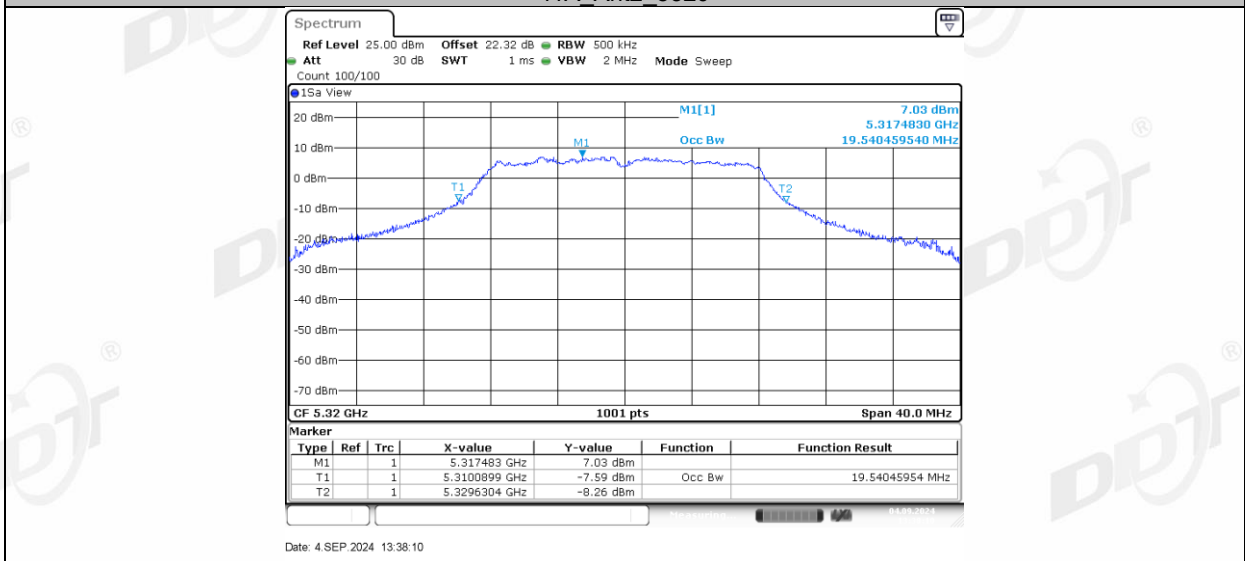
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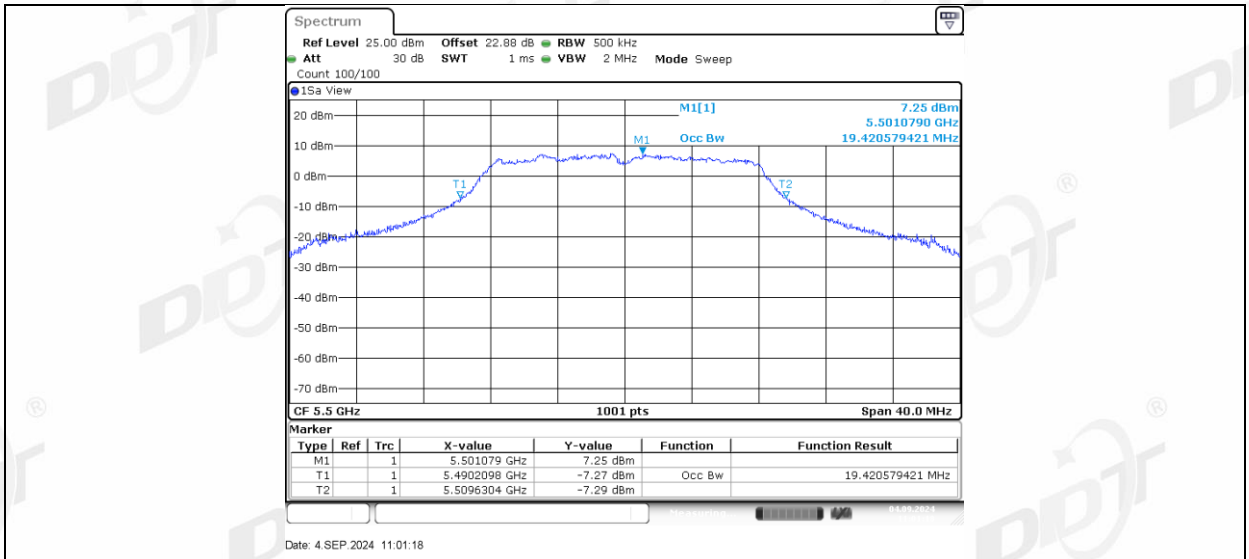
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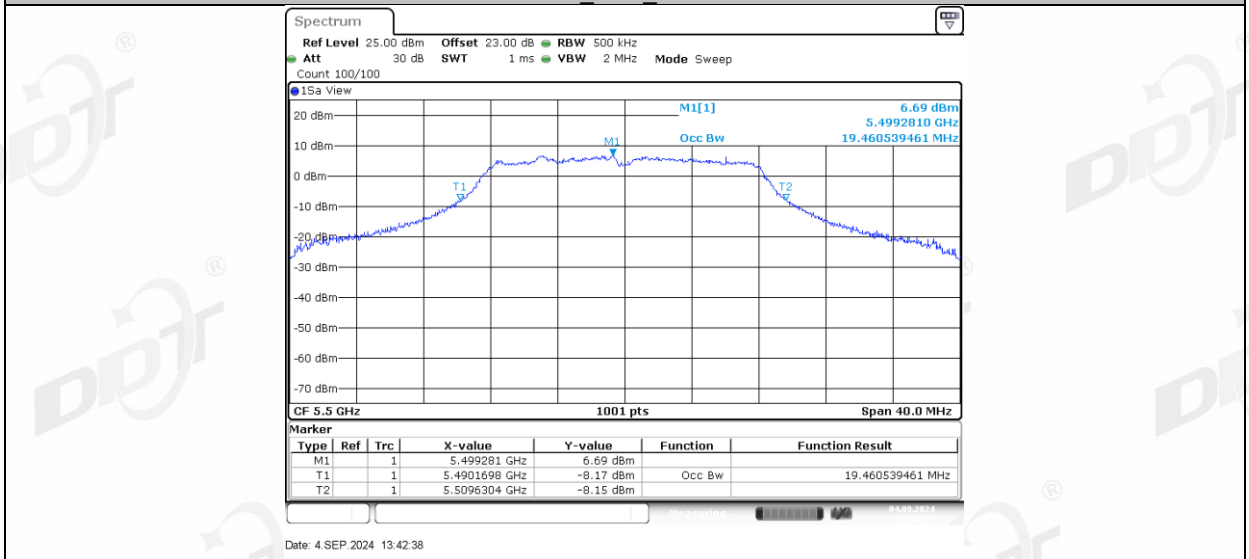
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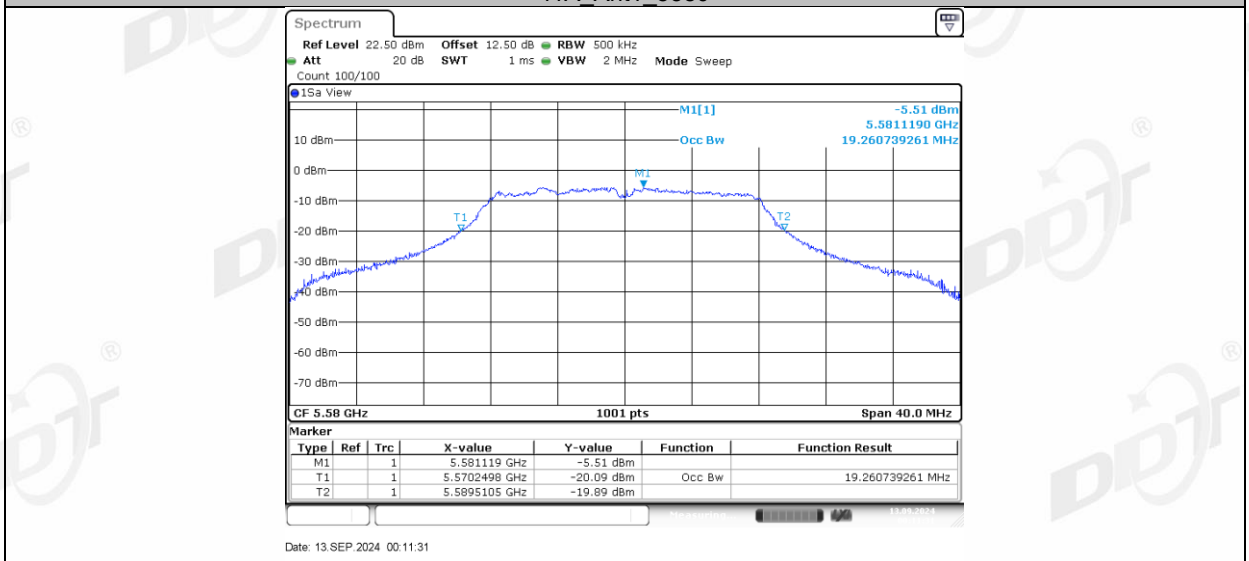
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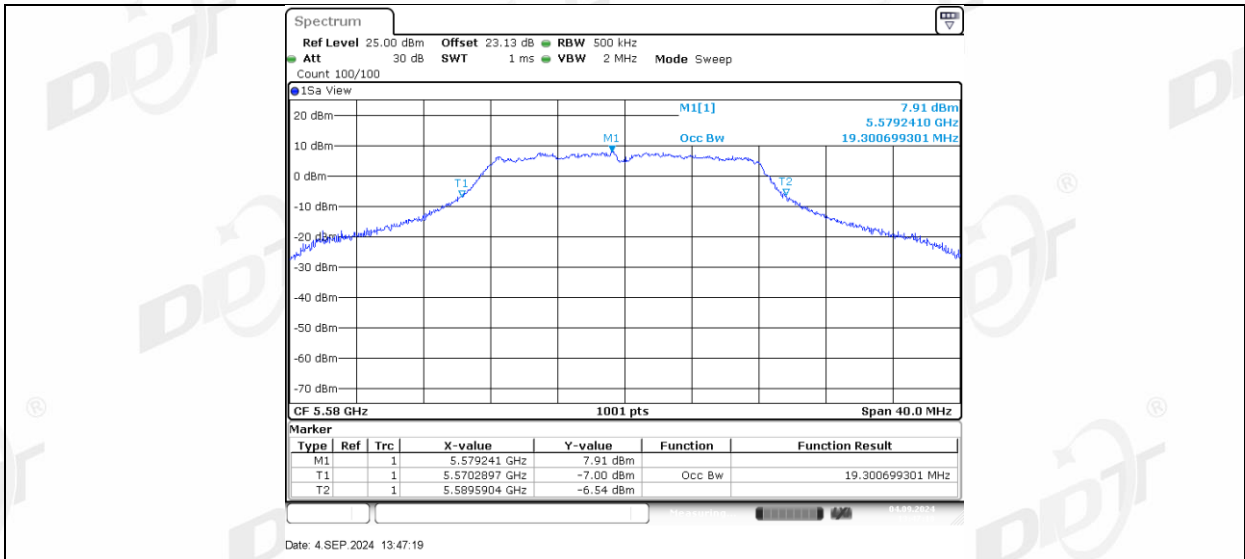
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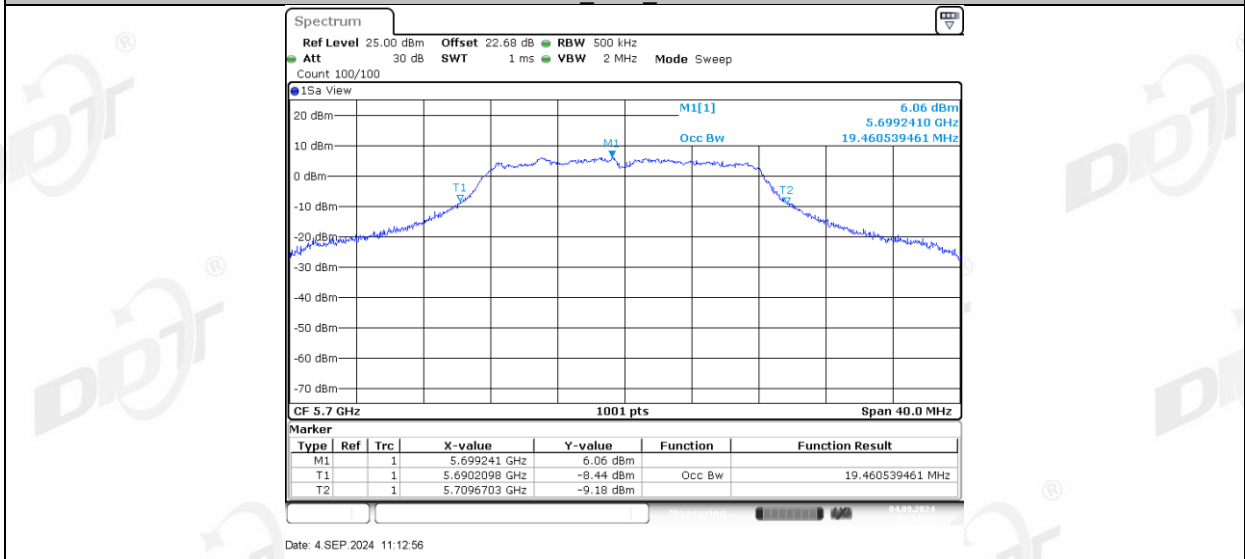
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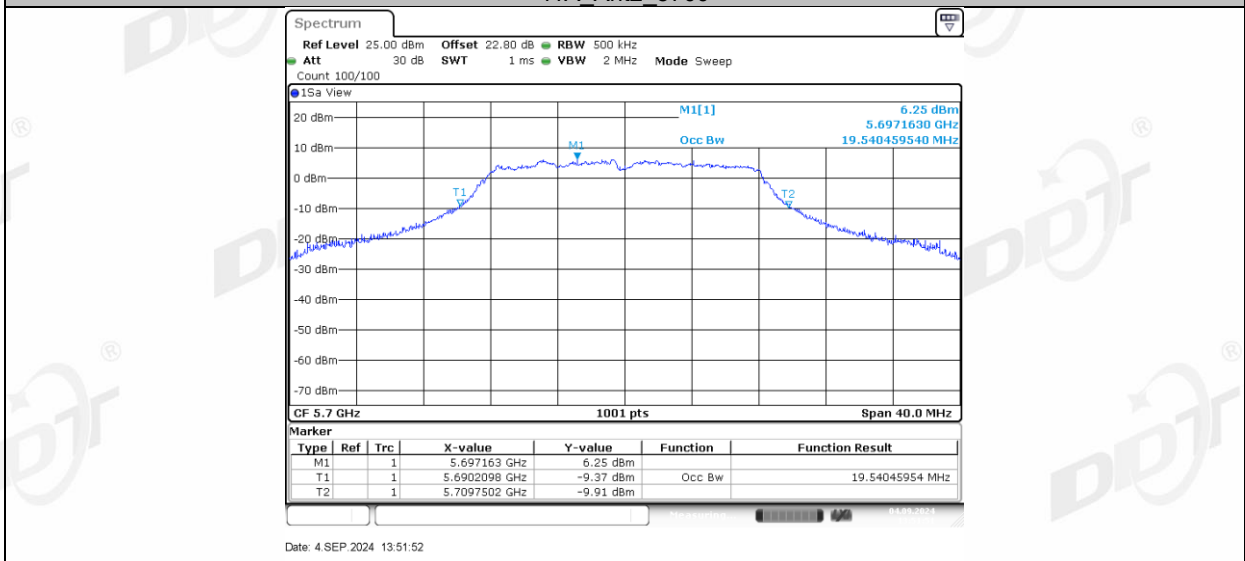
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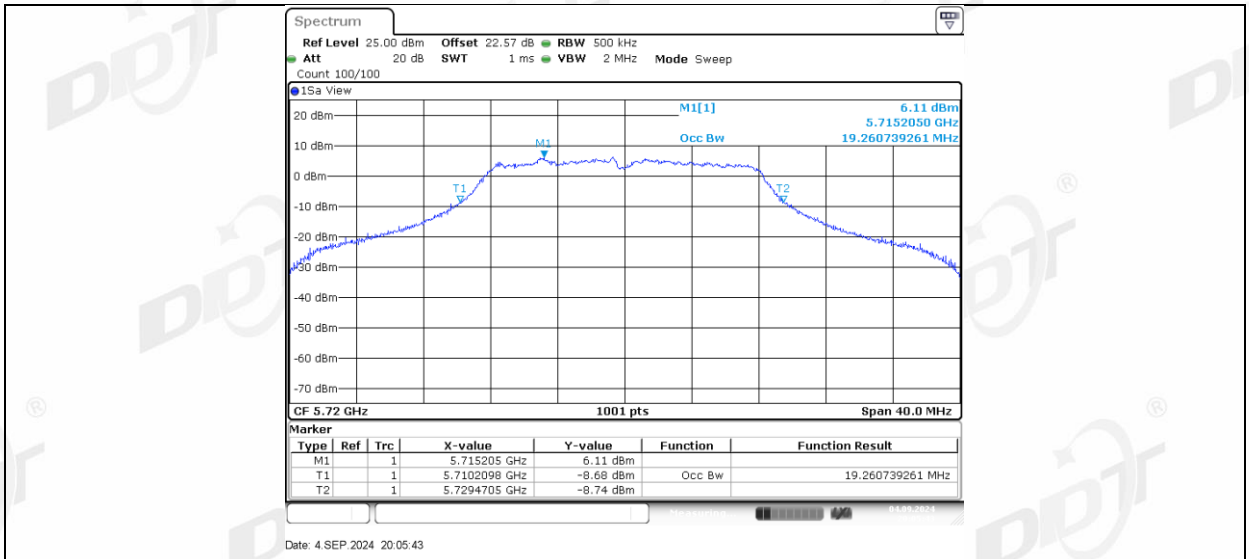
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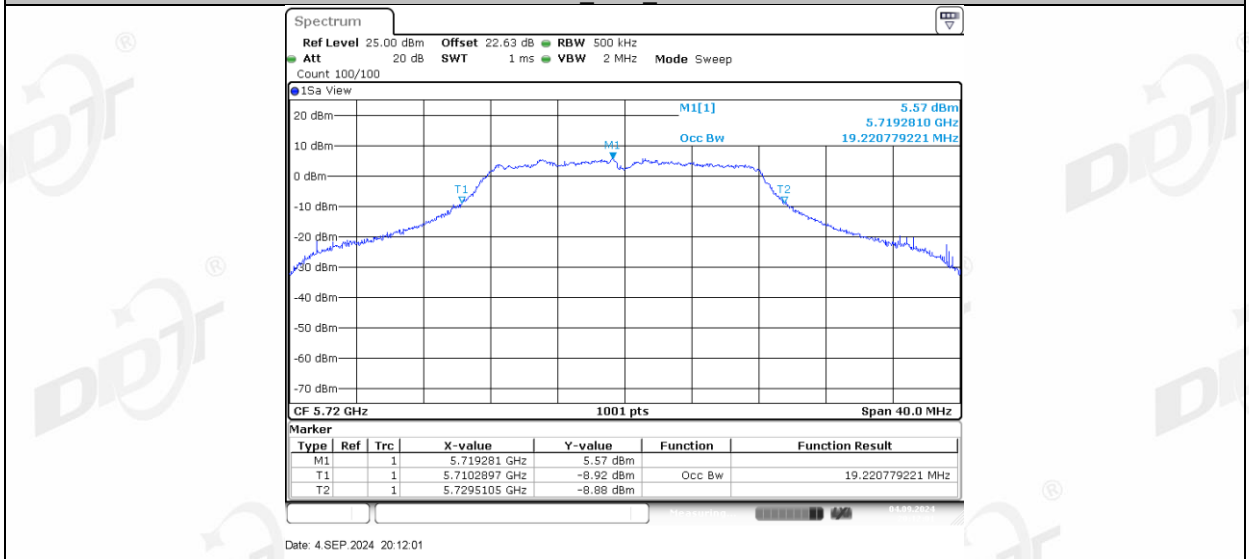
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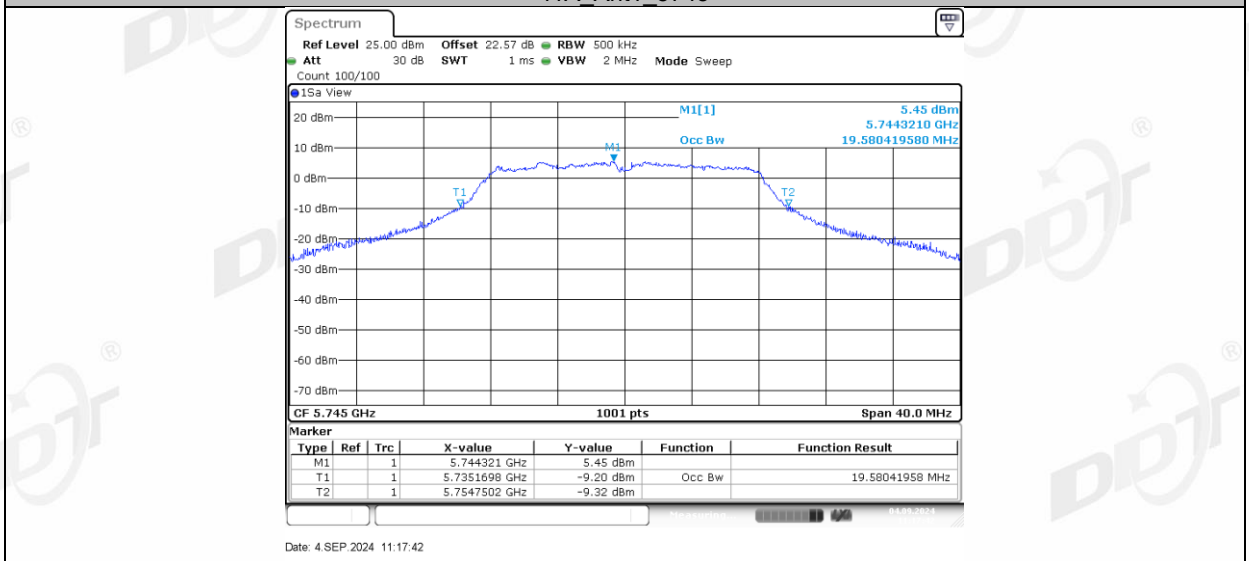
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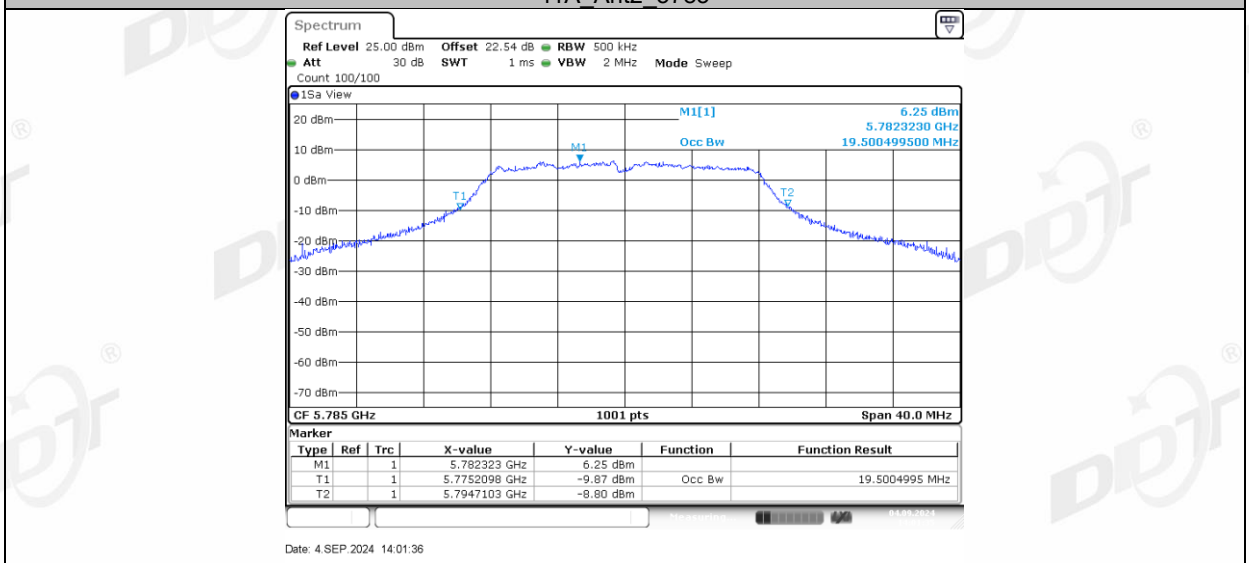
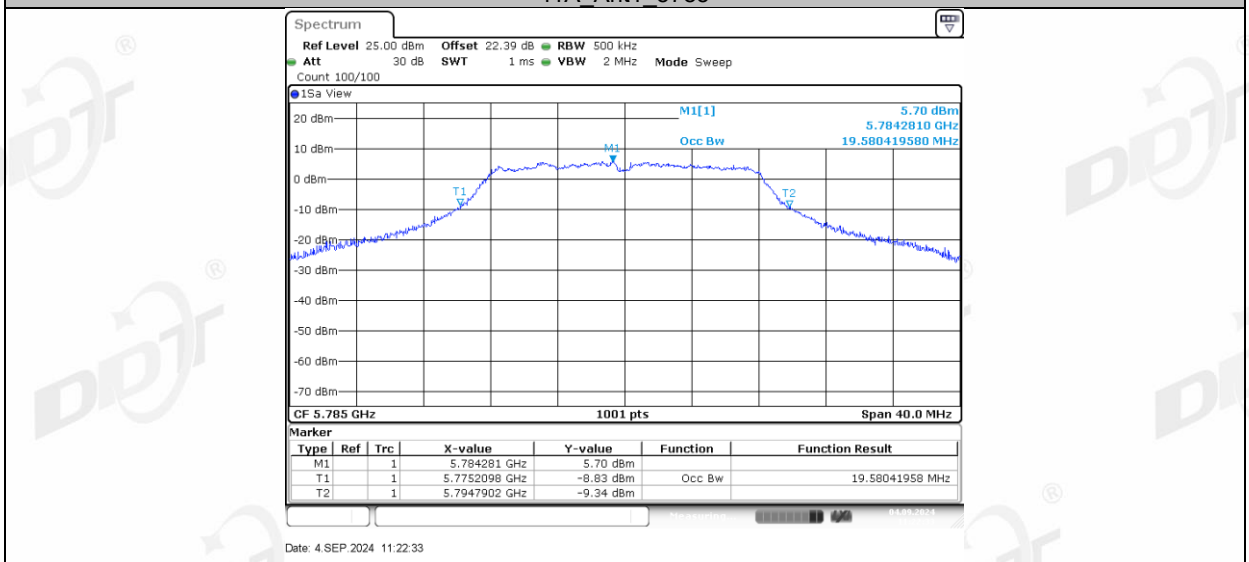
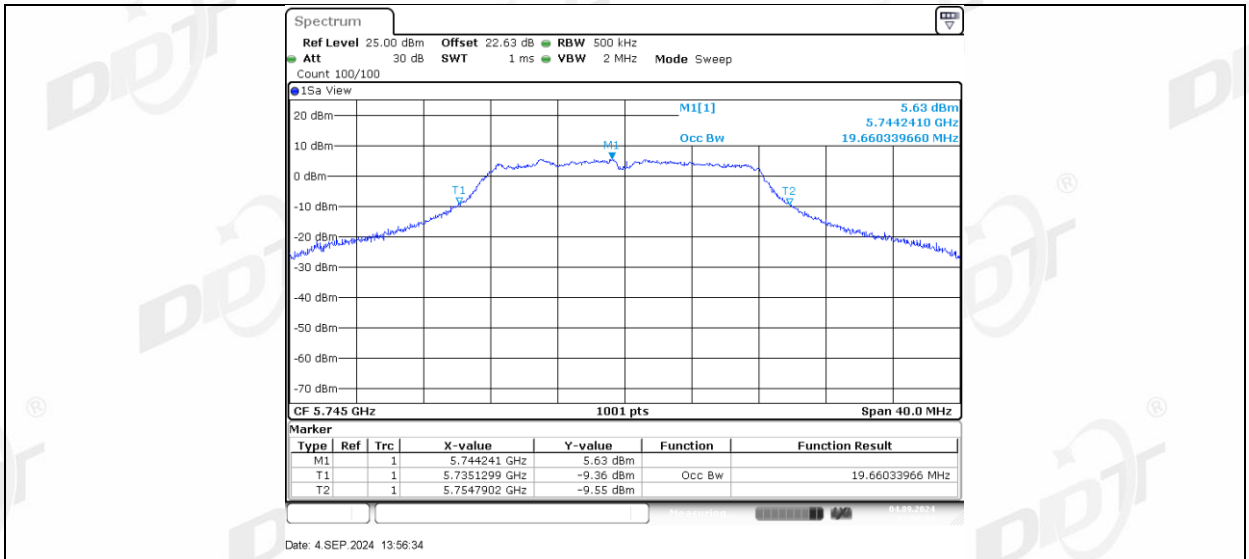
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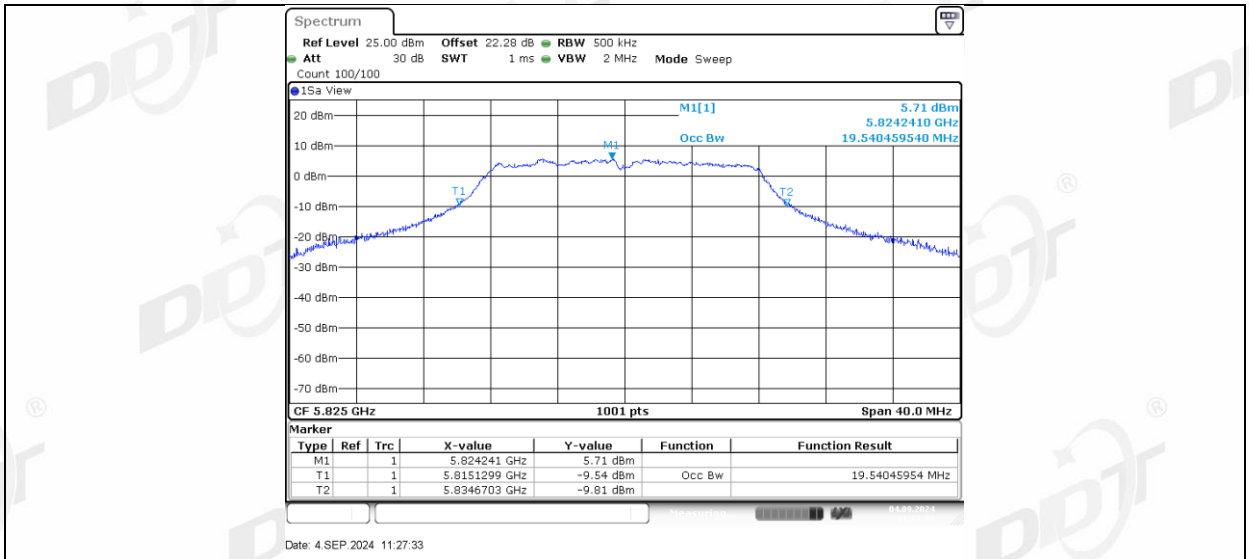


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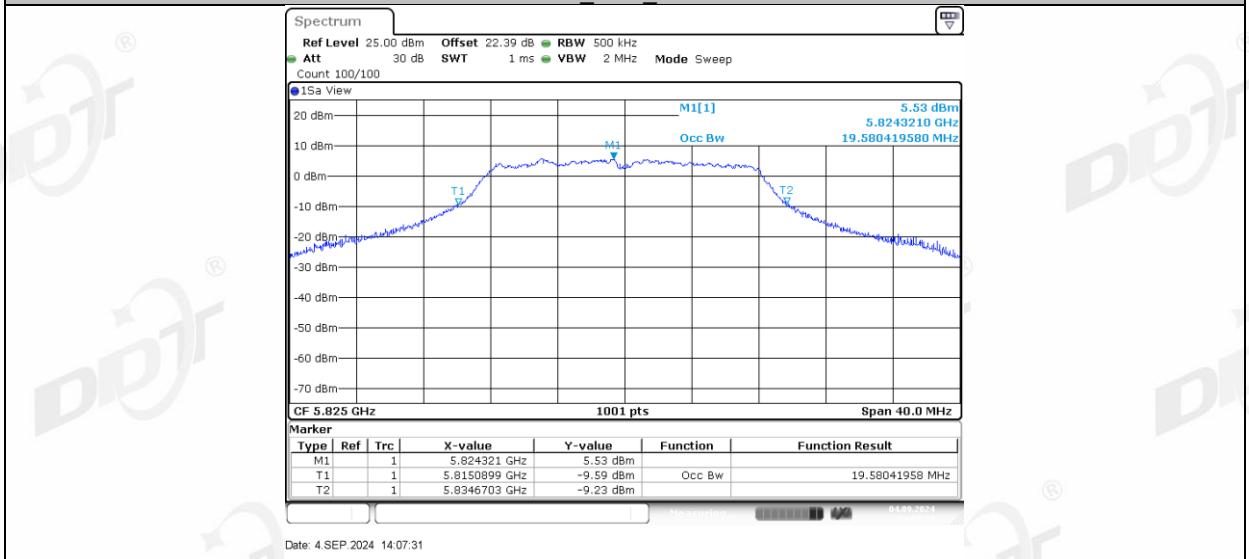


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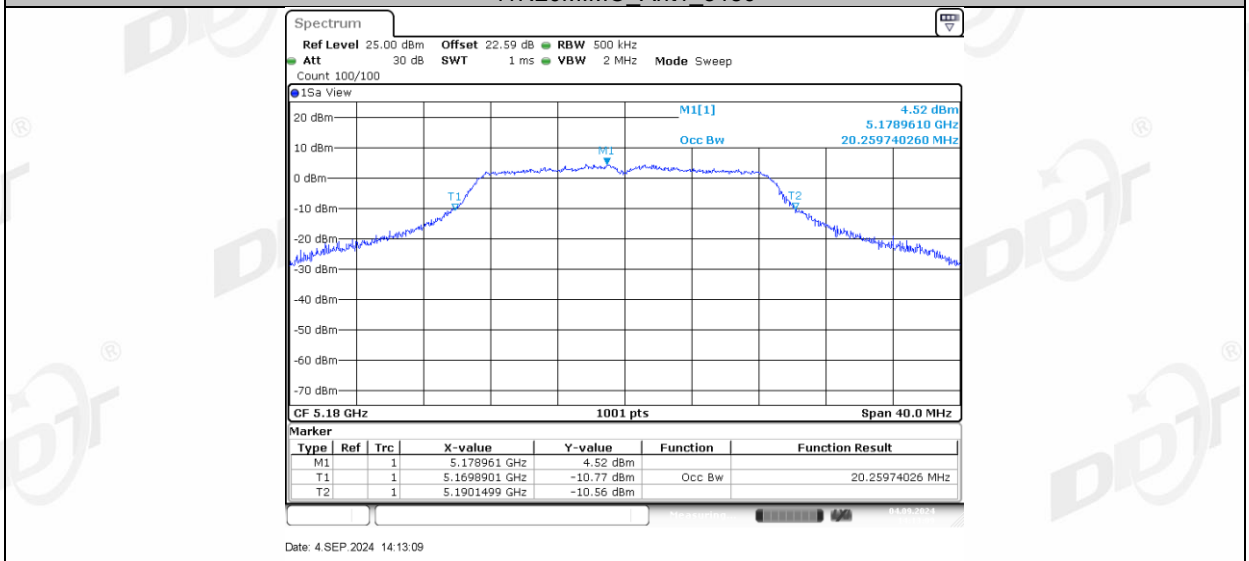




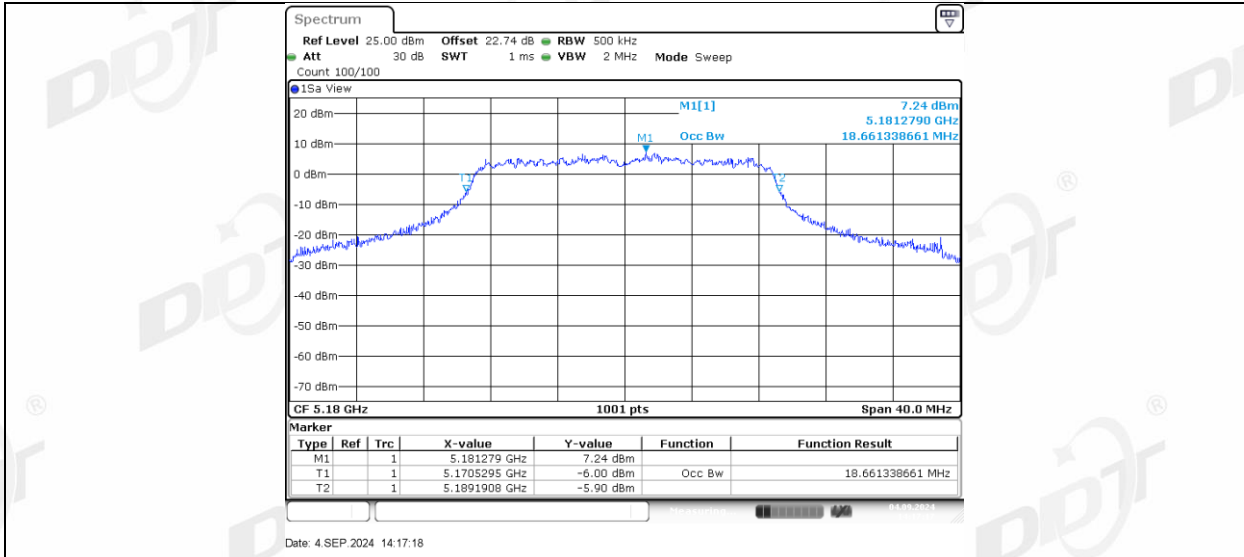
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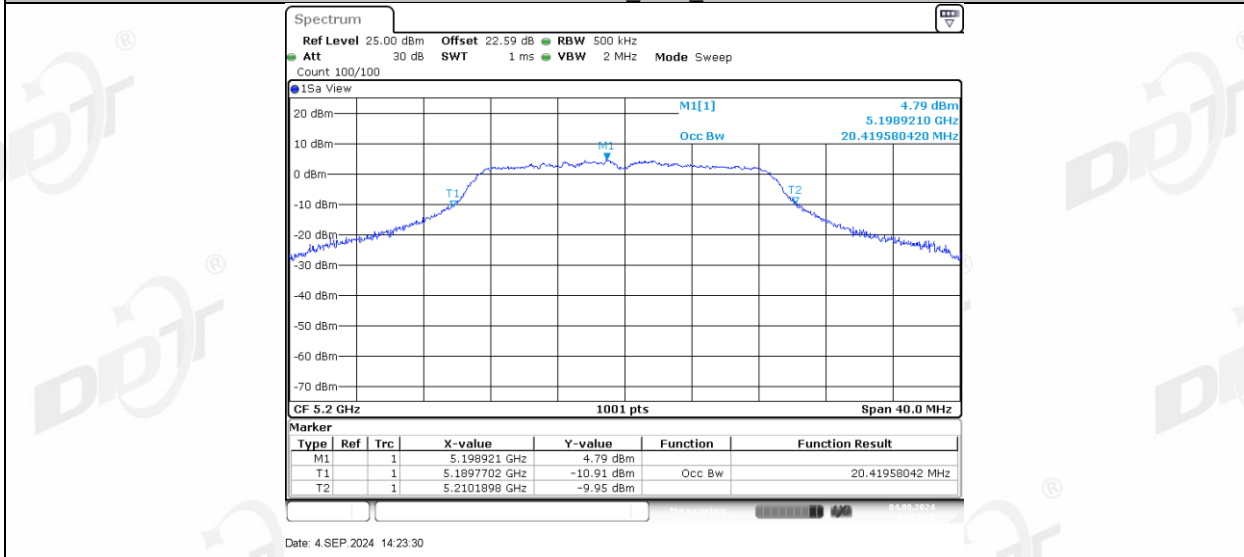
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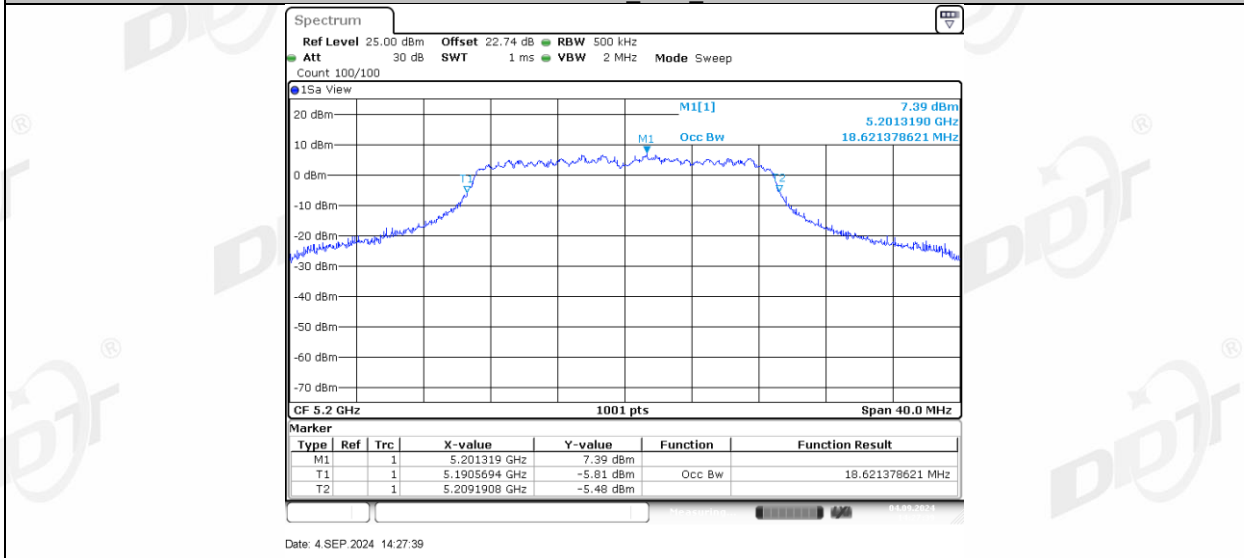
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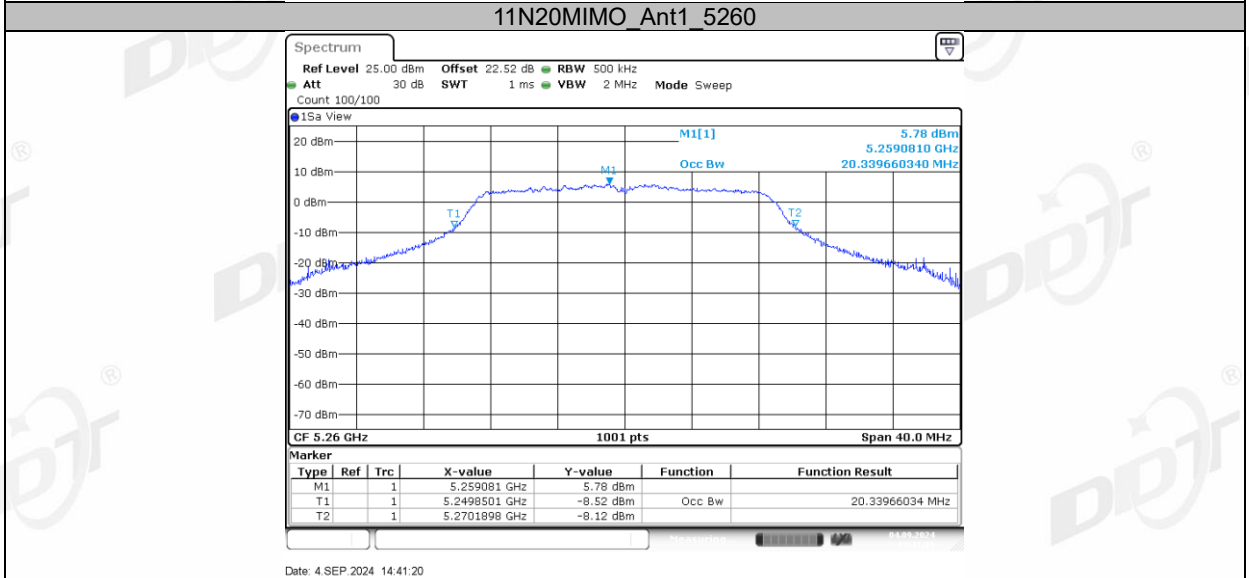
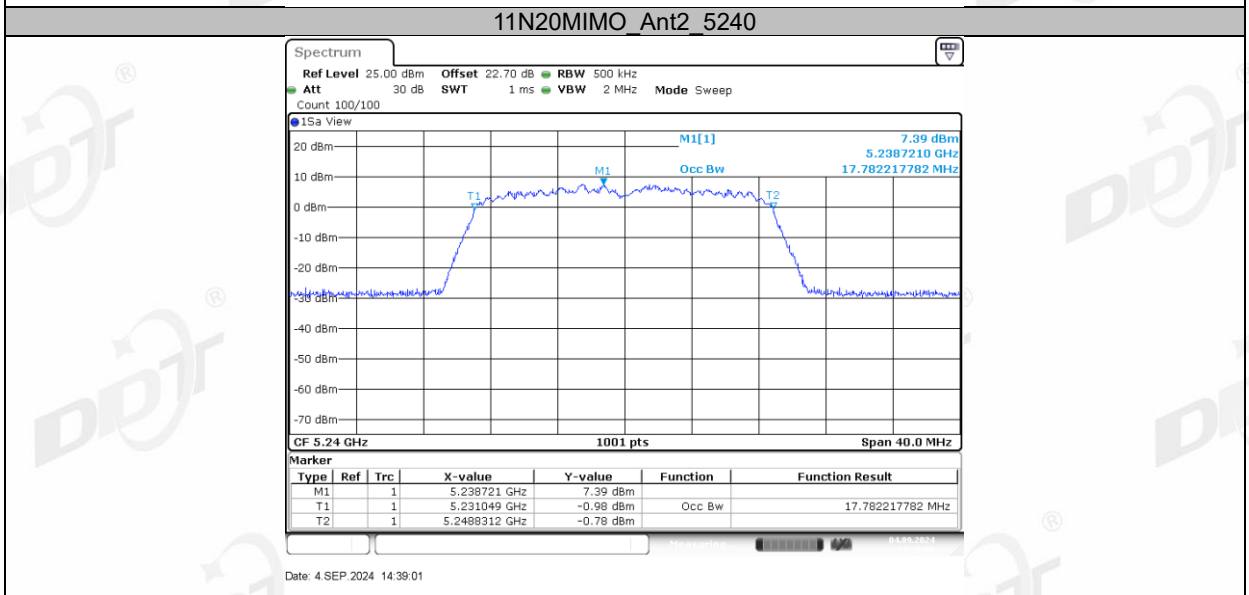
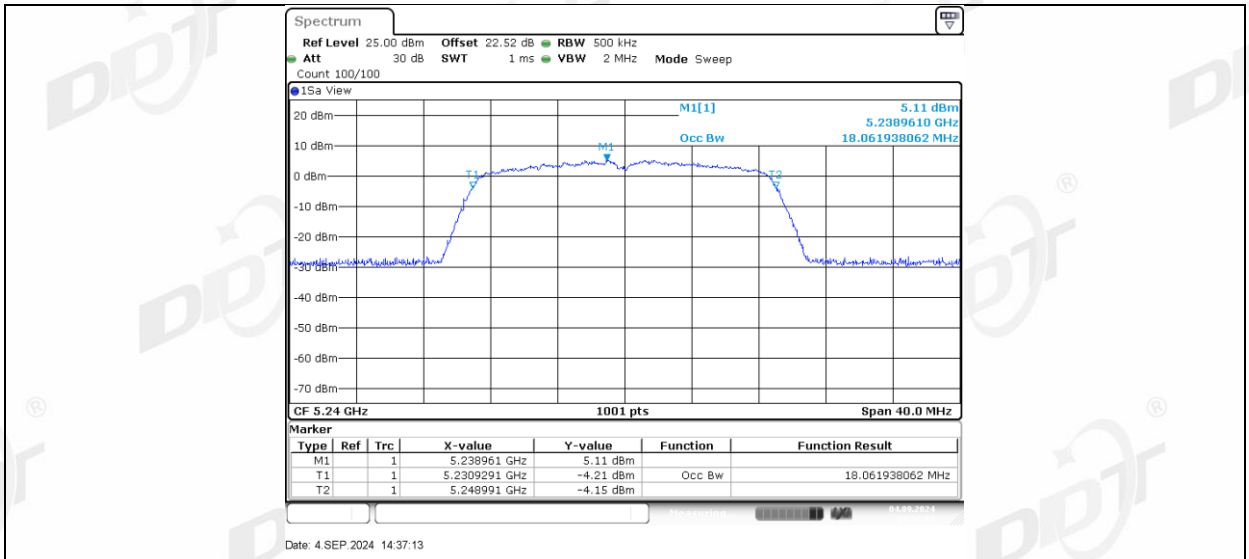
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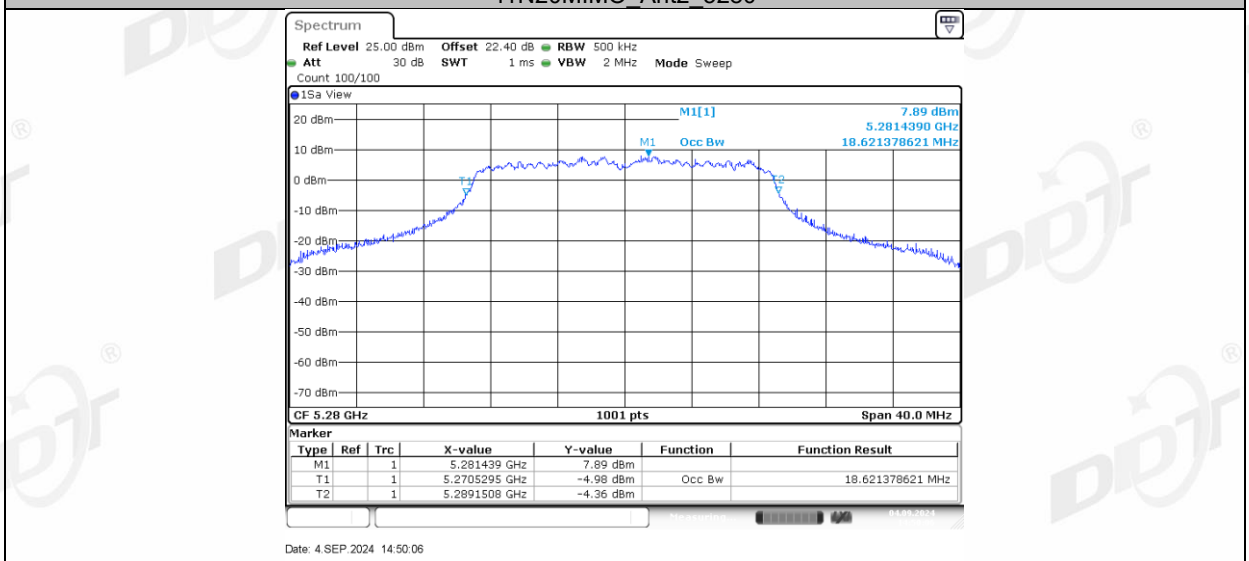
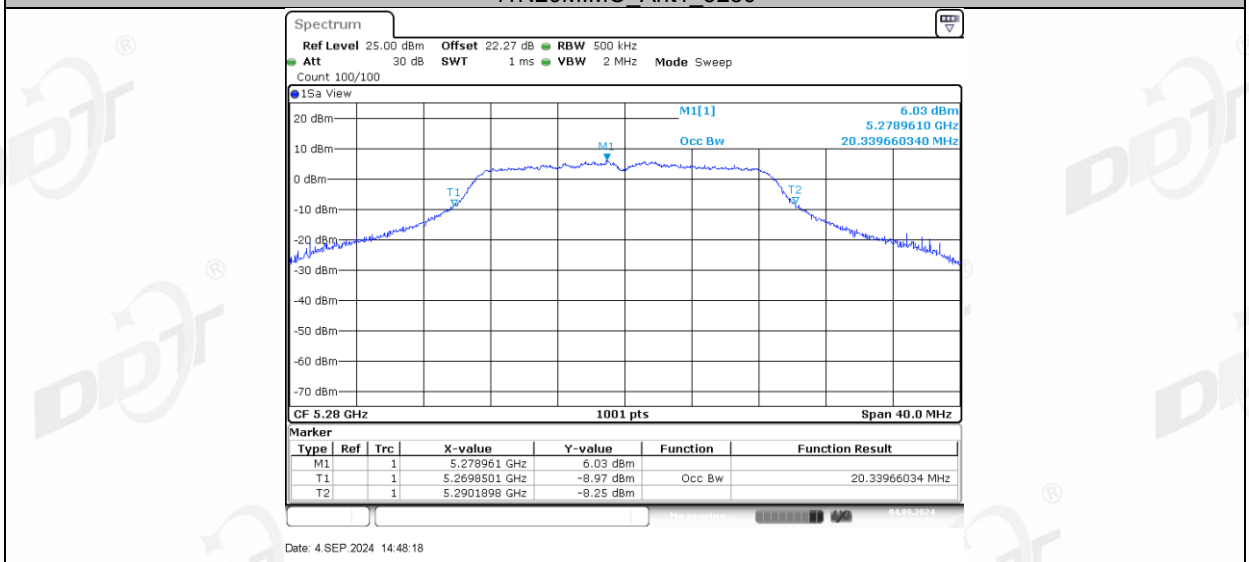
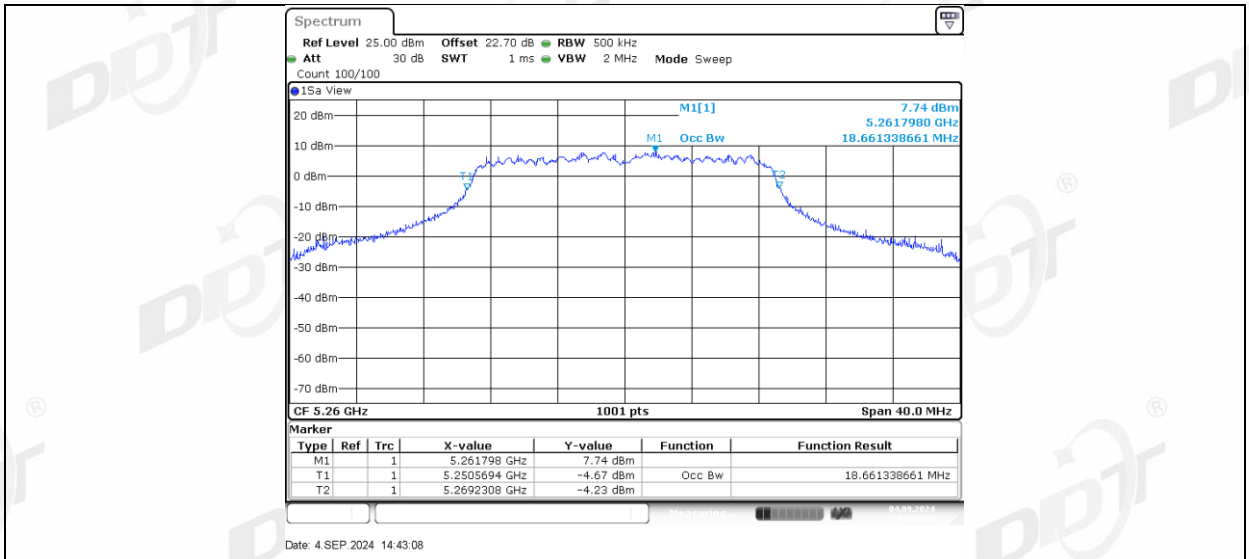


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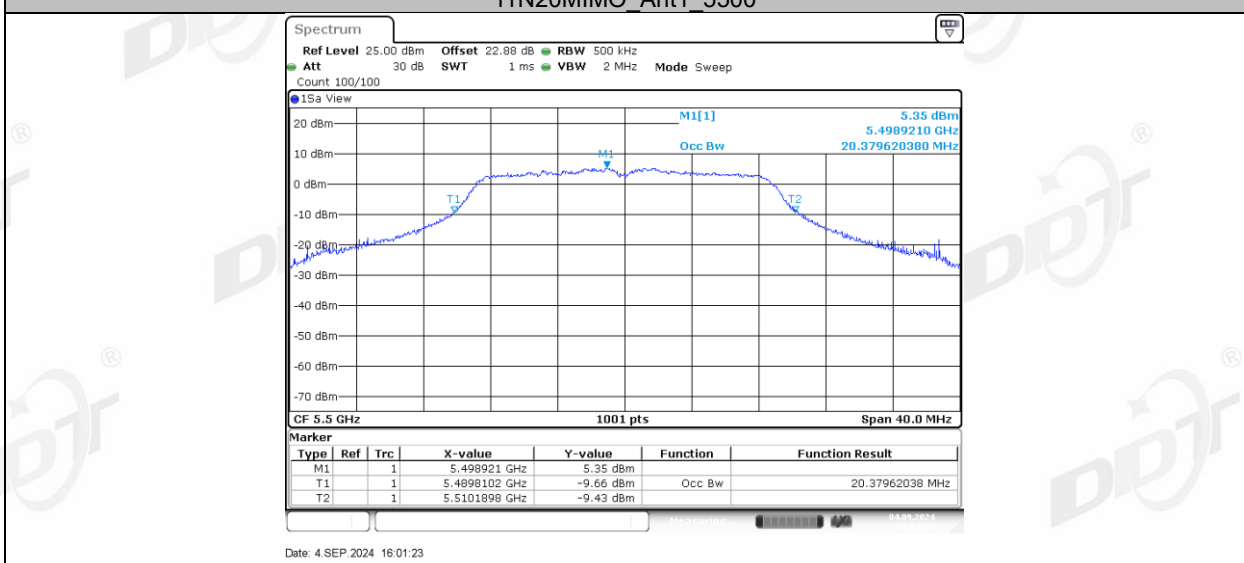
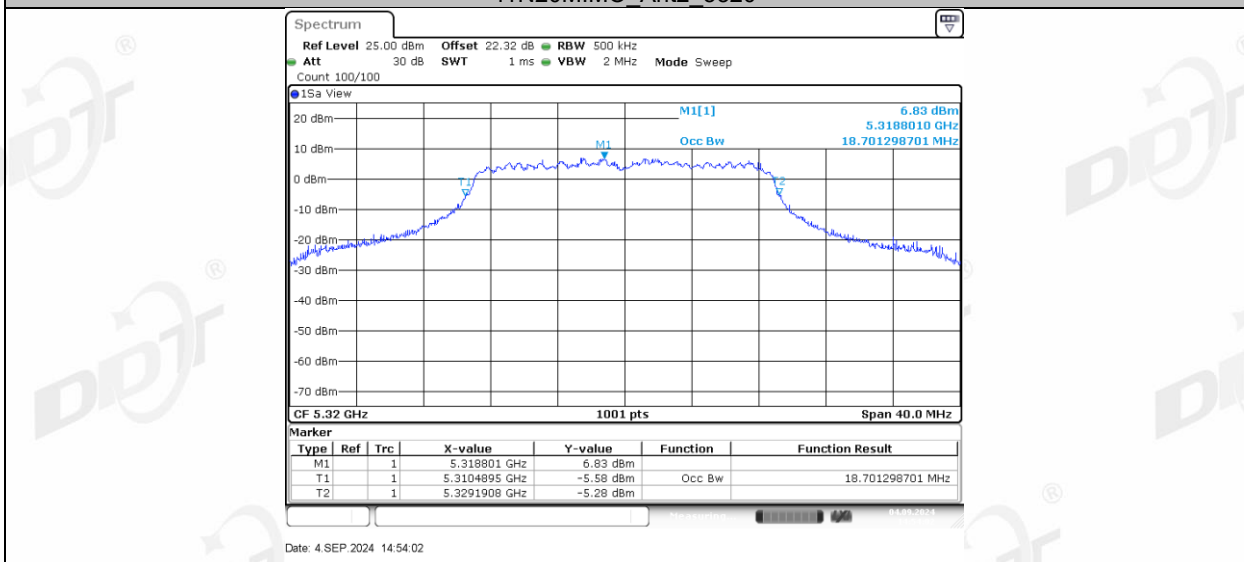
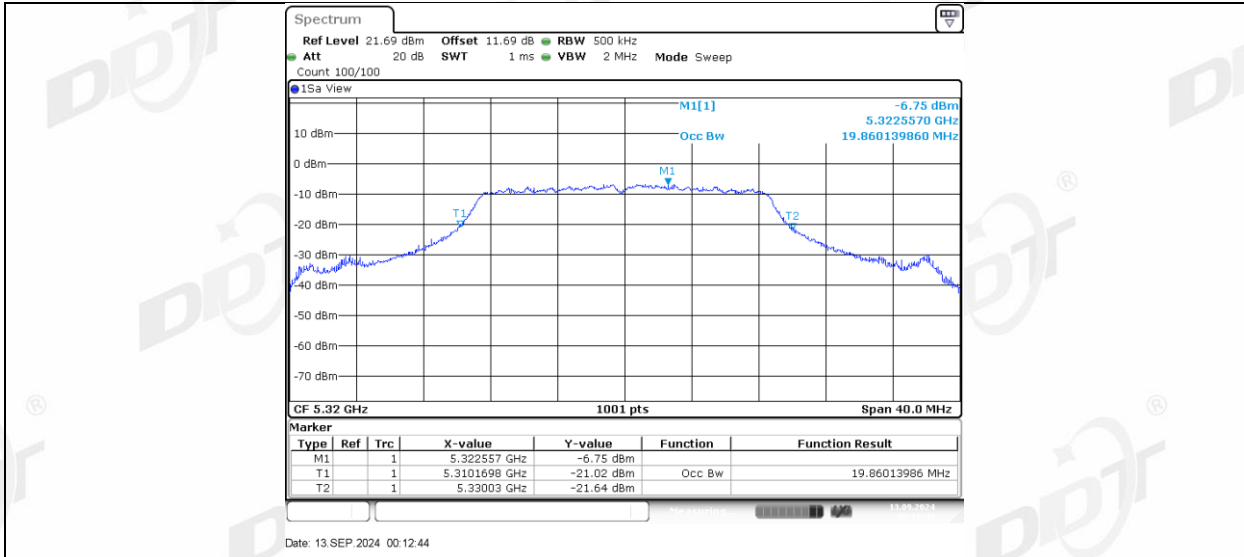


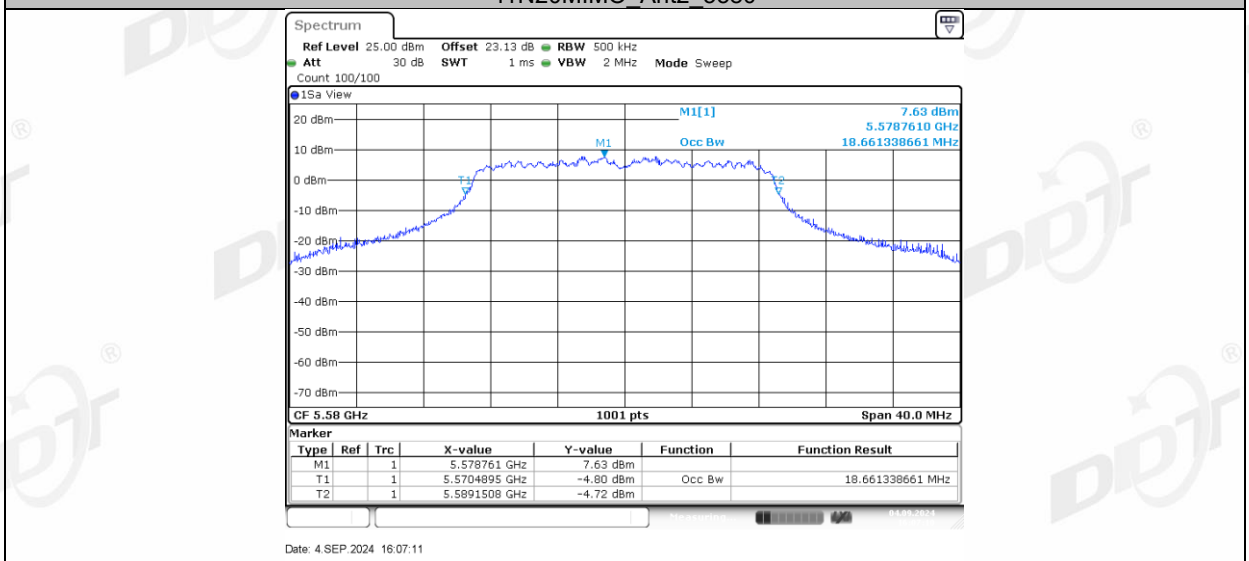
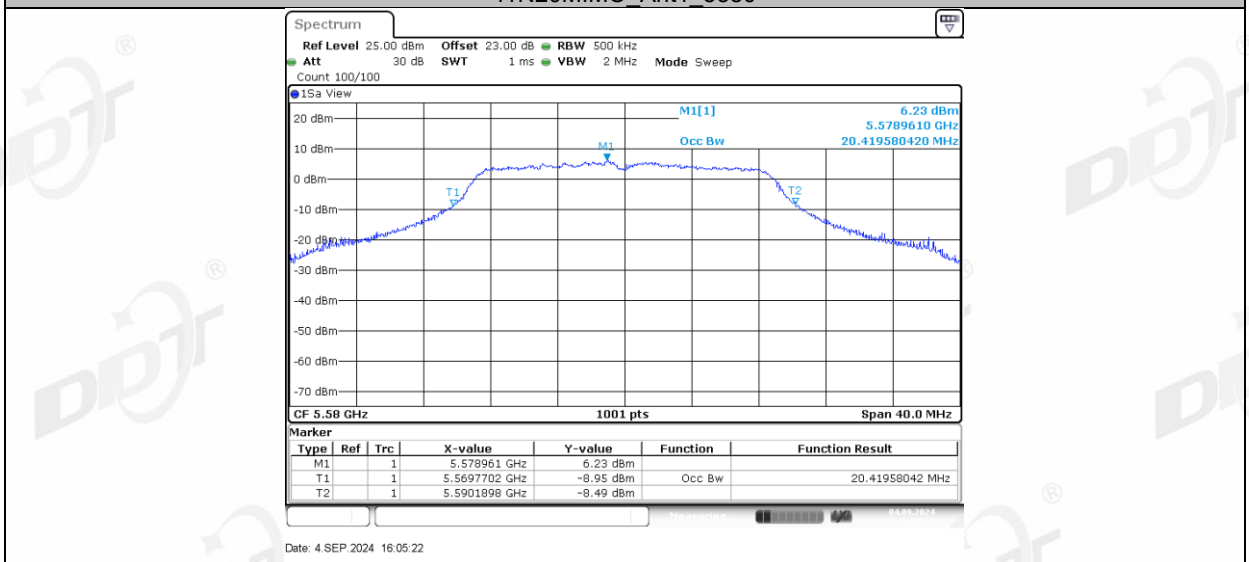
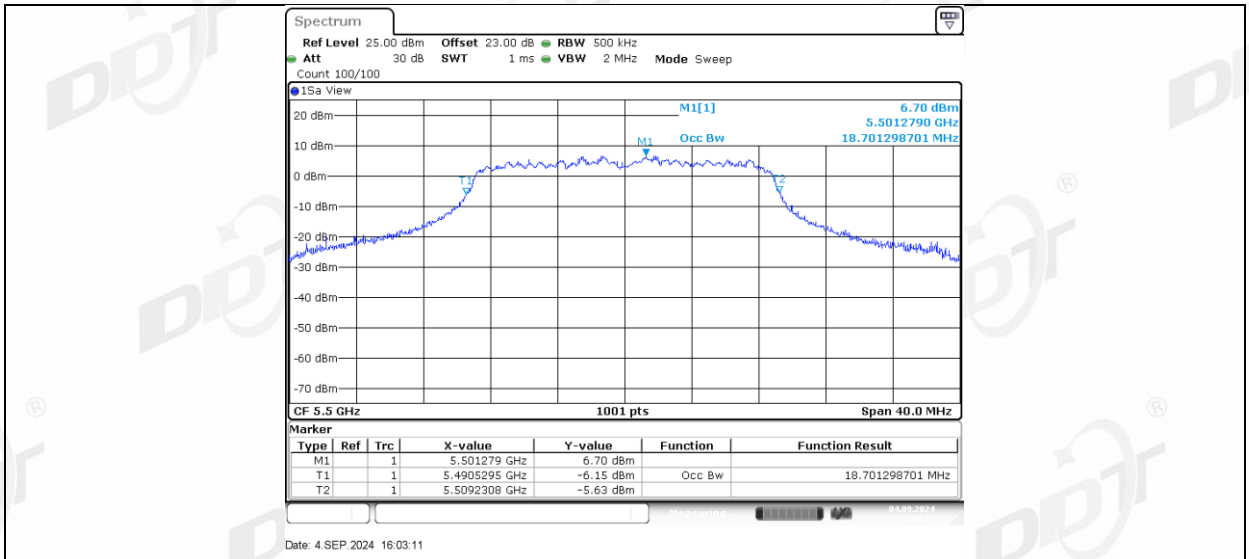
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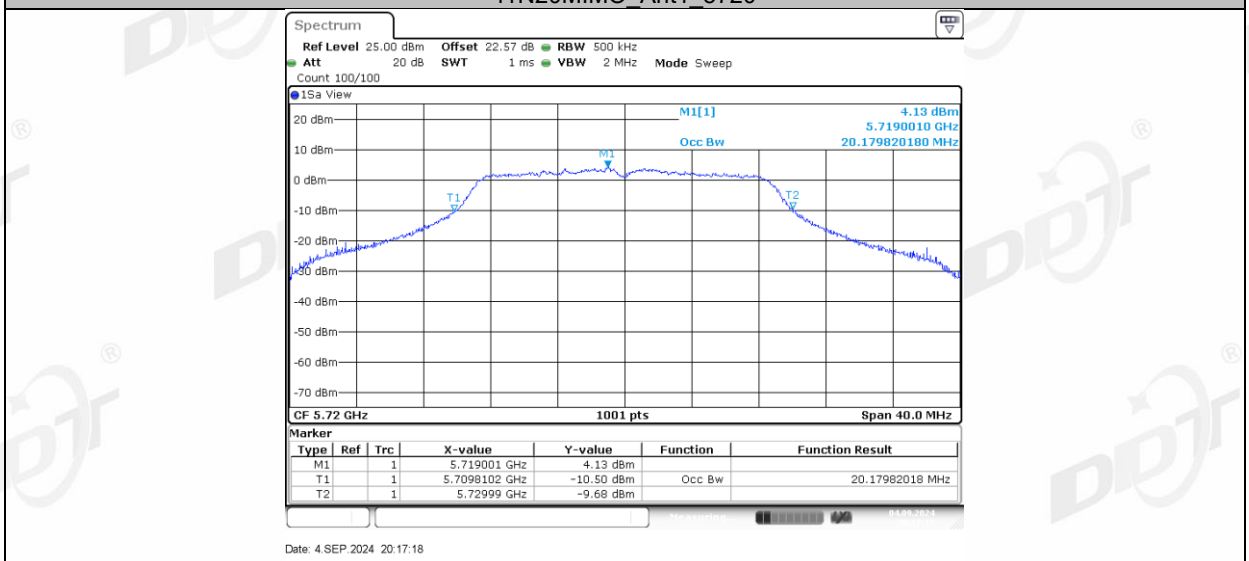
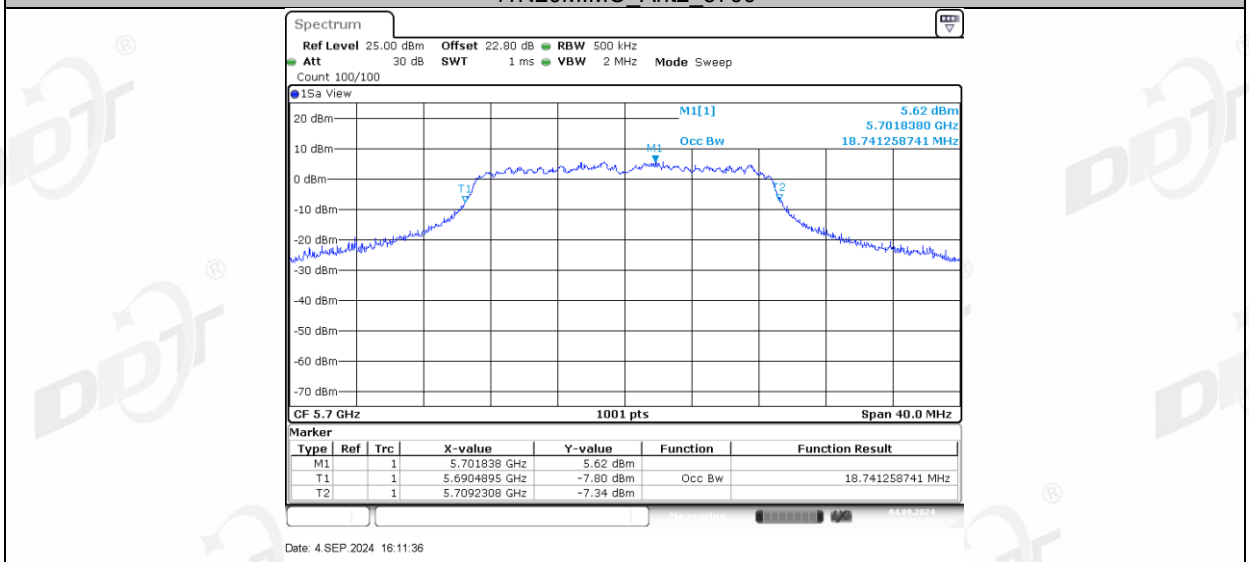
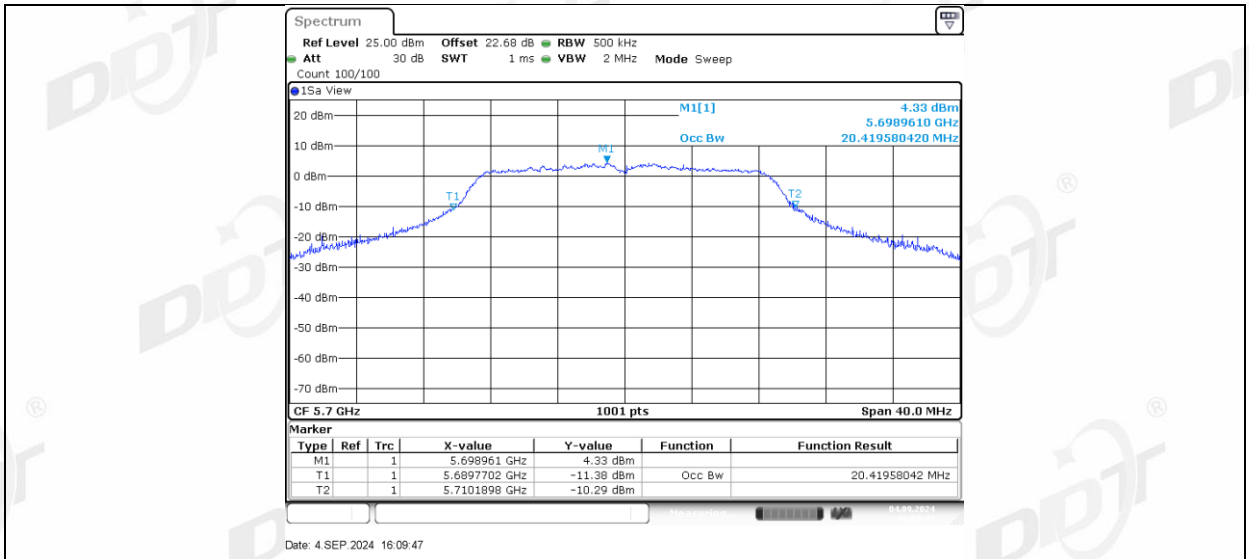


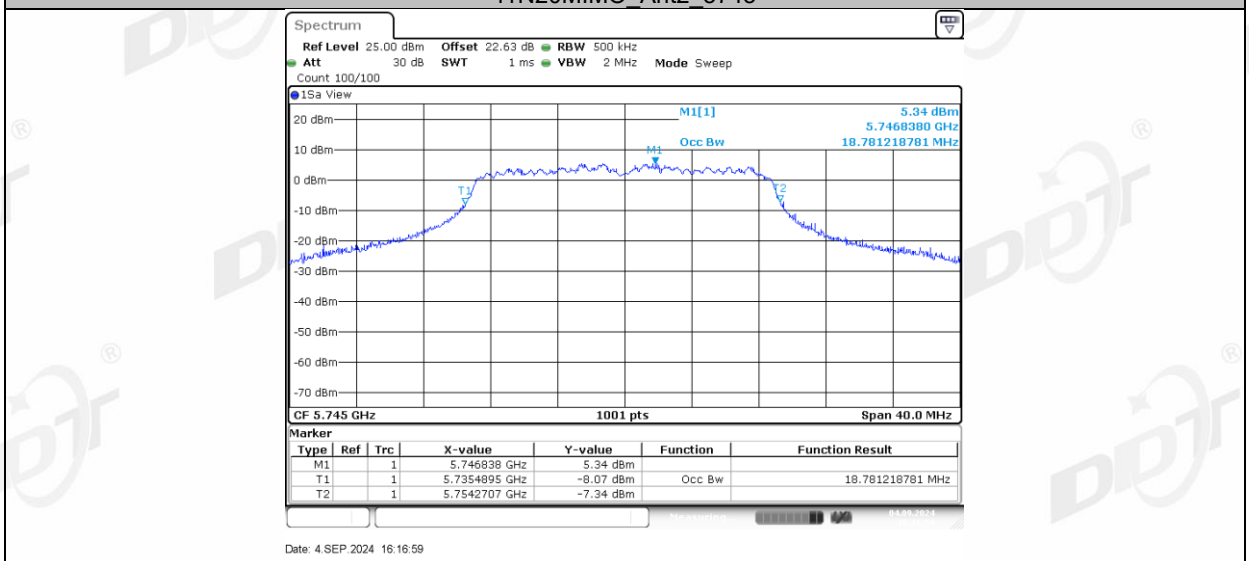
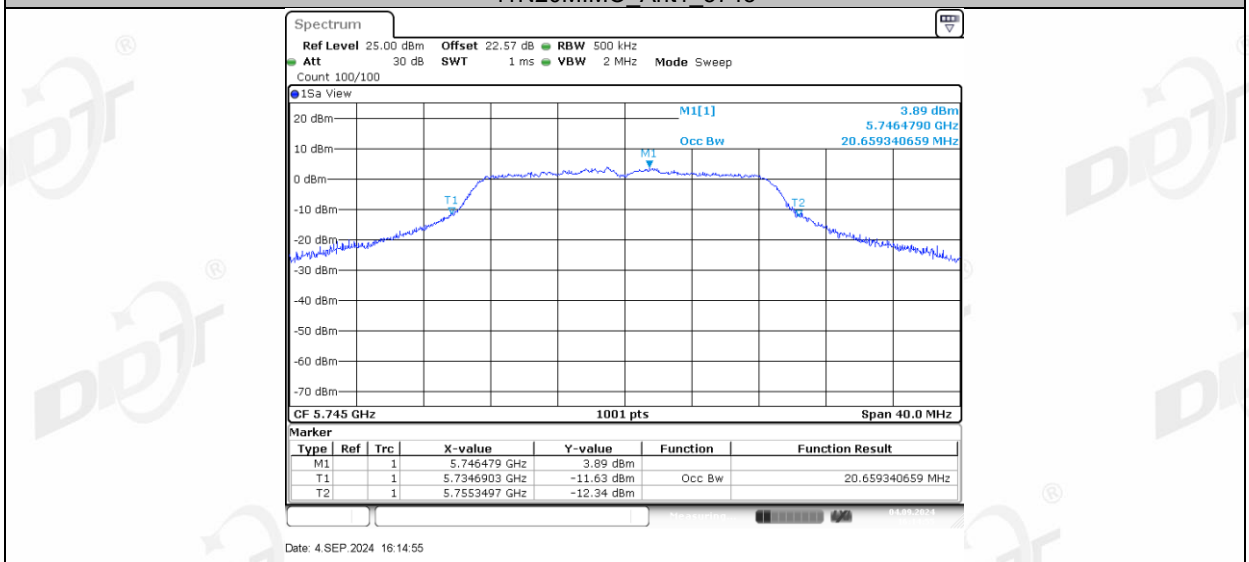
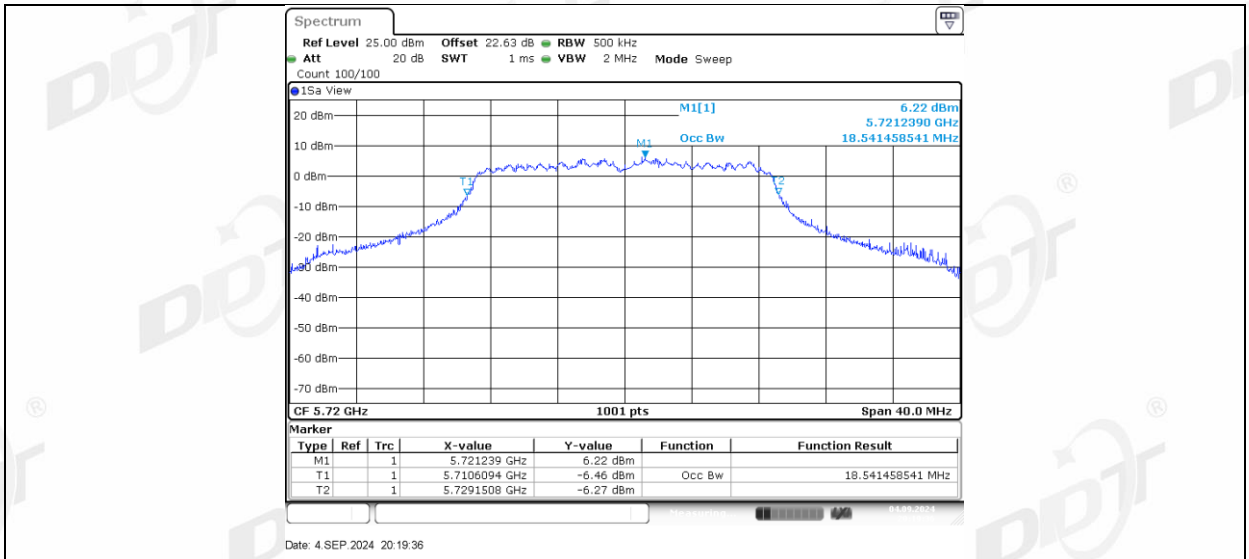
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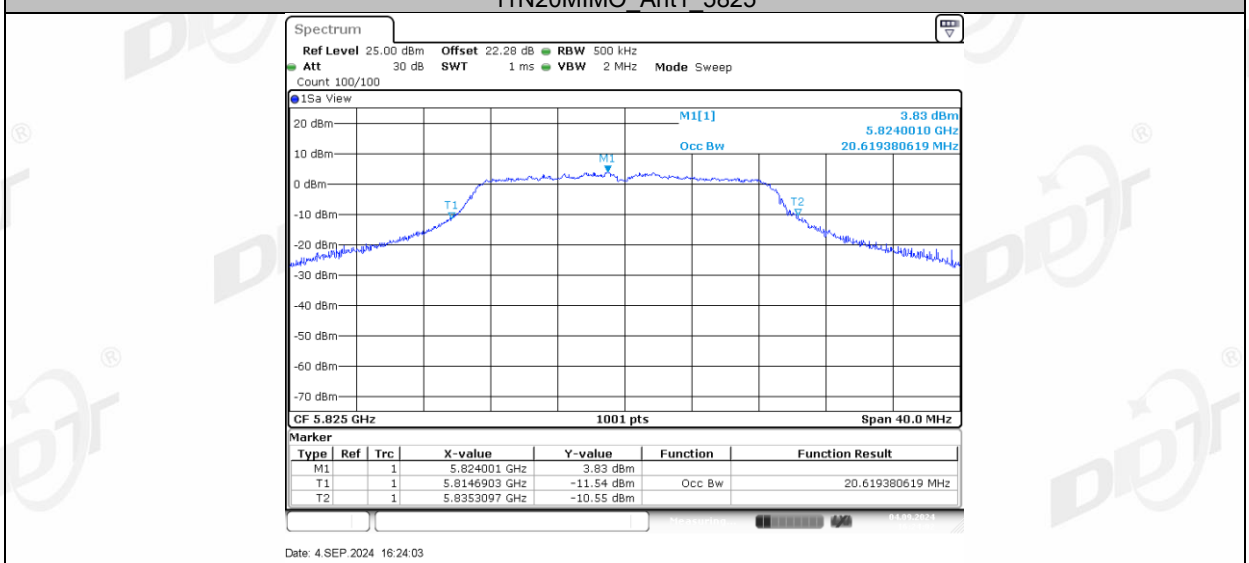
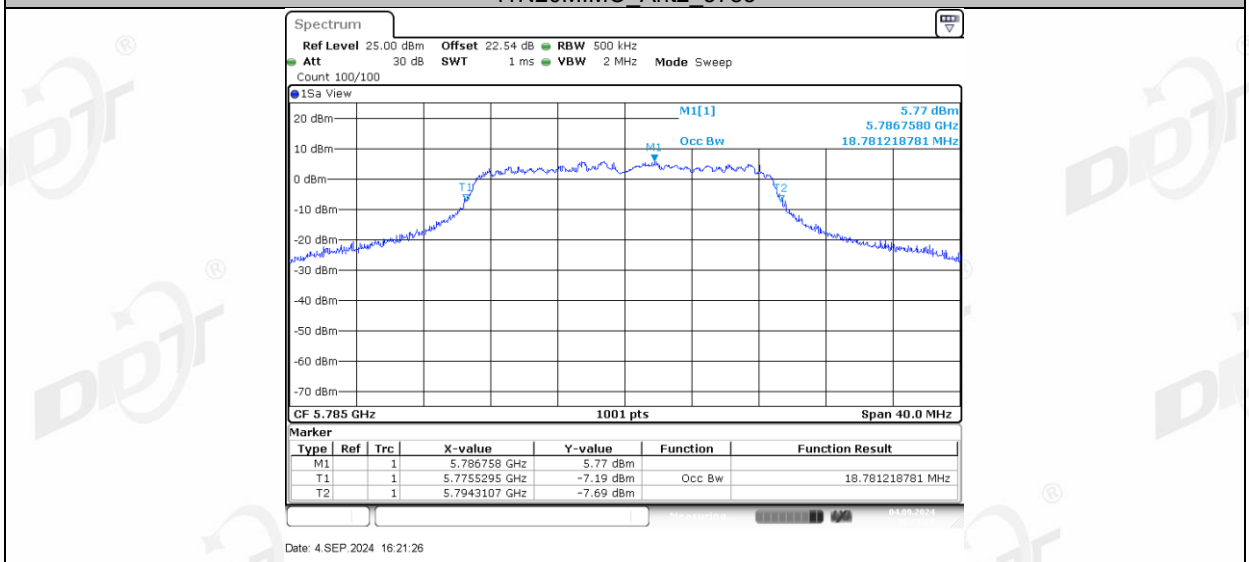
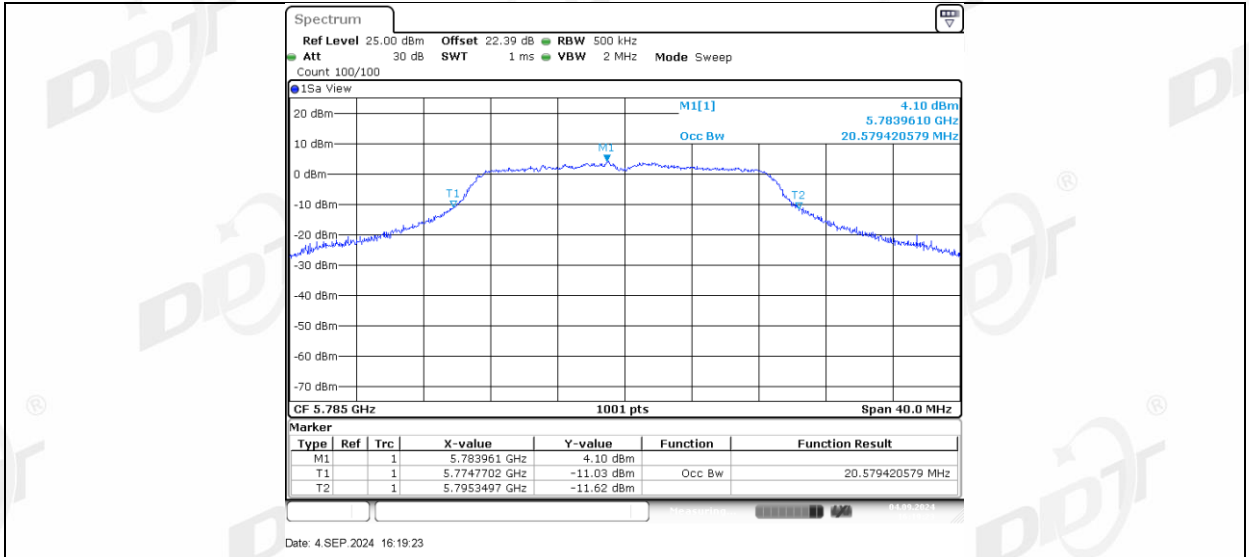


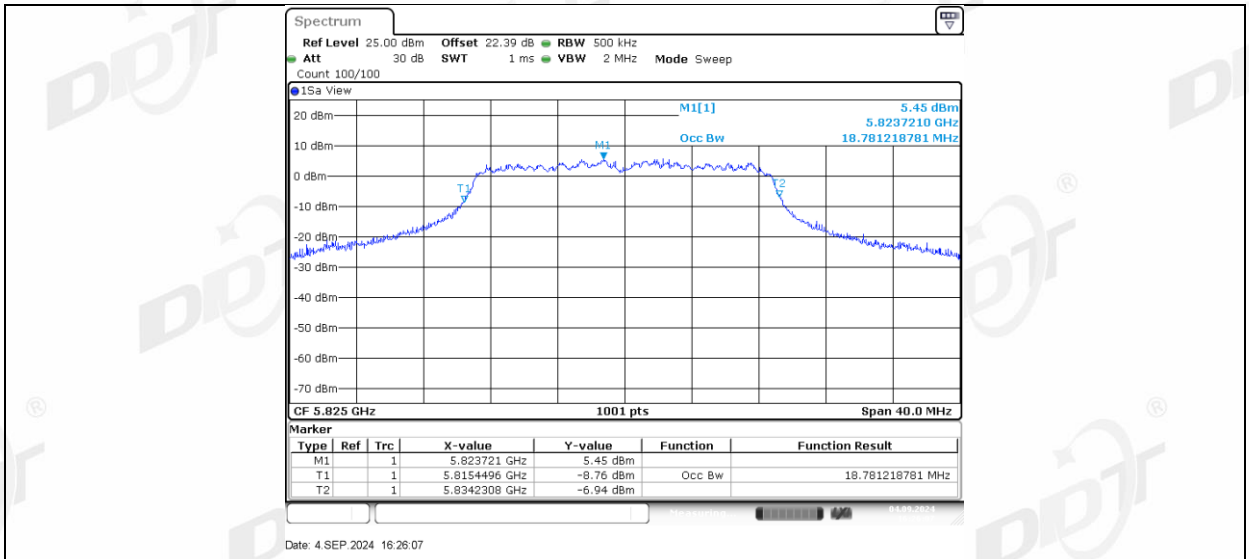
**11N20MIMO\_Ant1\_5700**



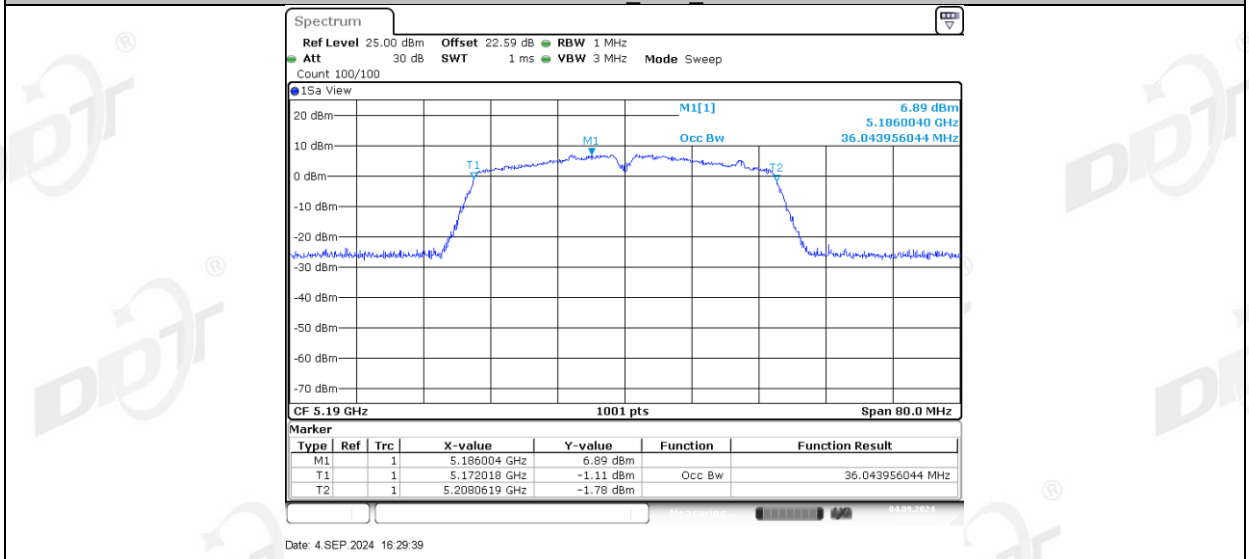


**11N20MIMO\_Ant1\_5785**

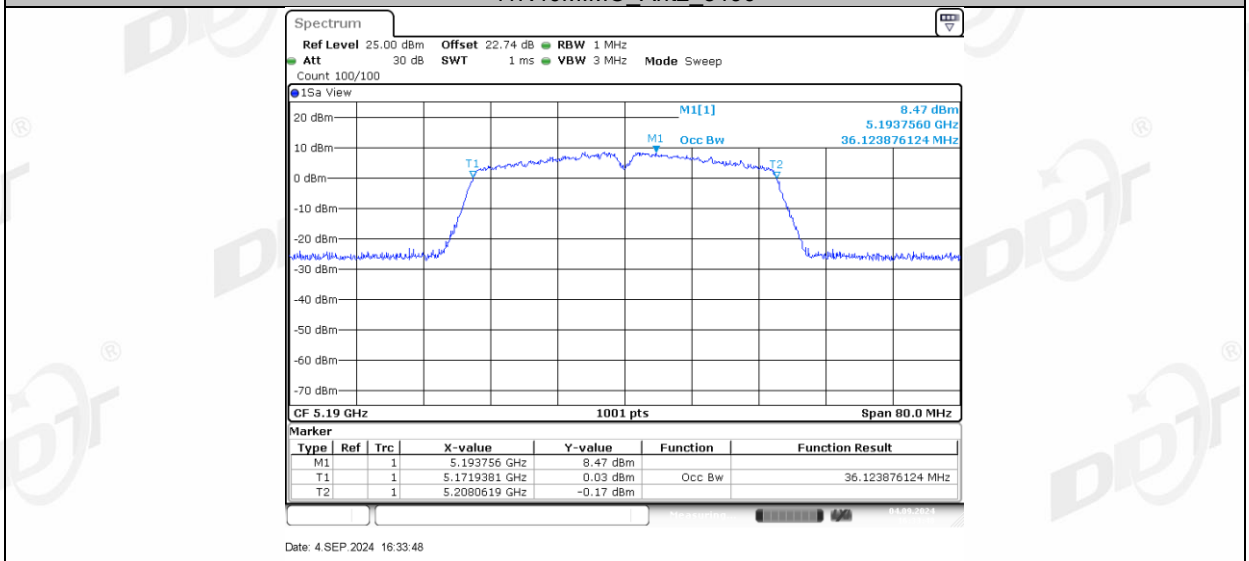




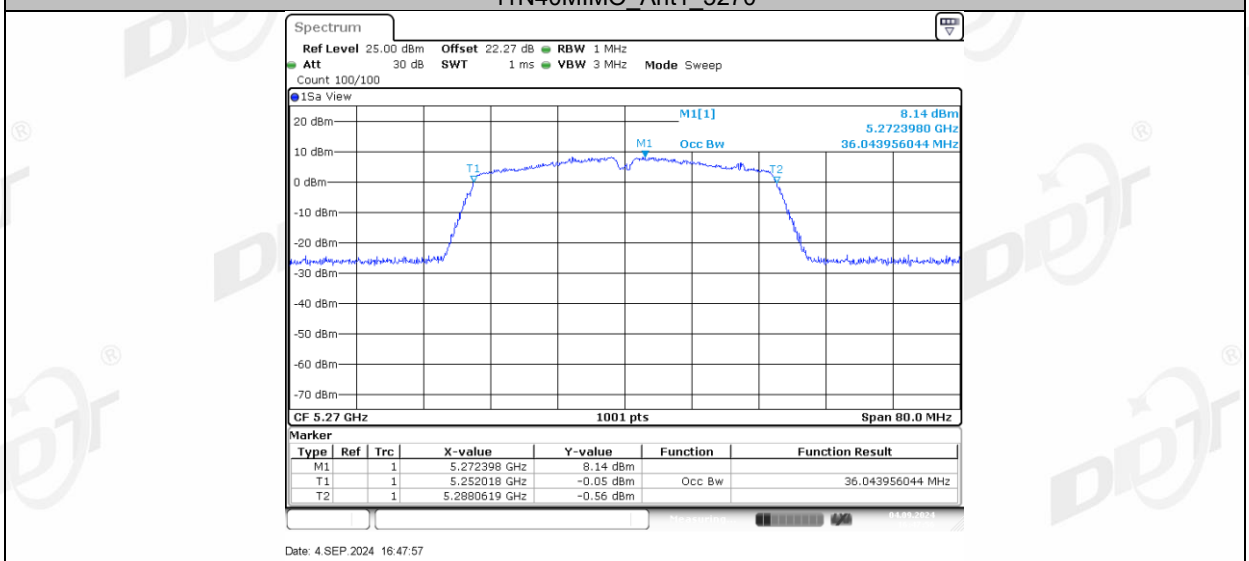
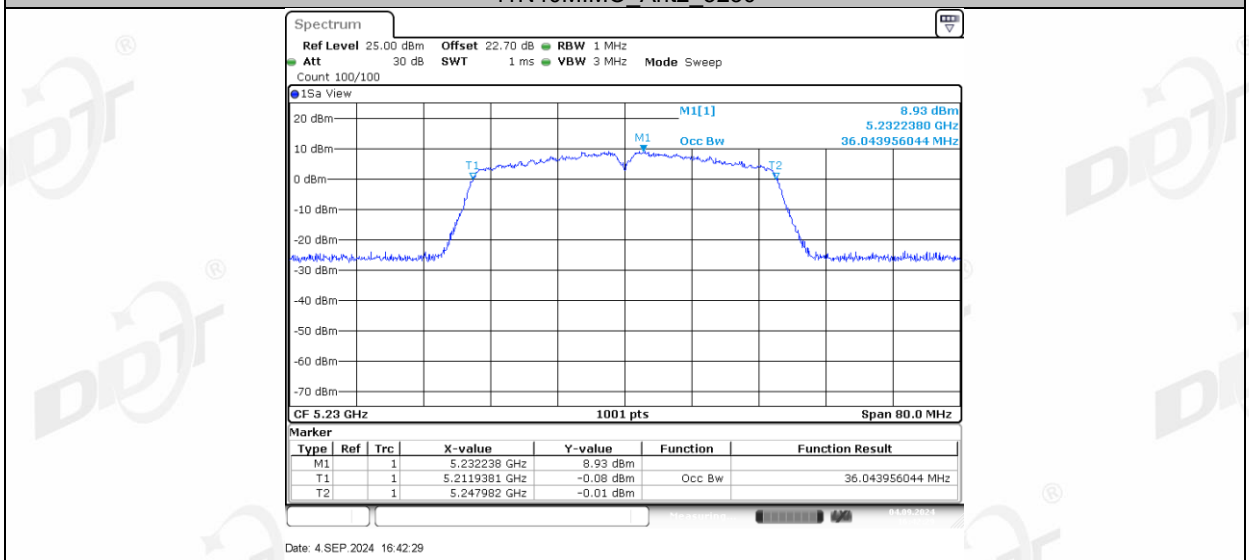
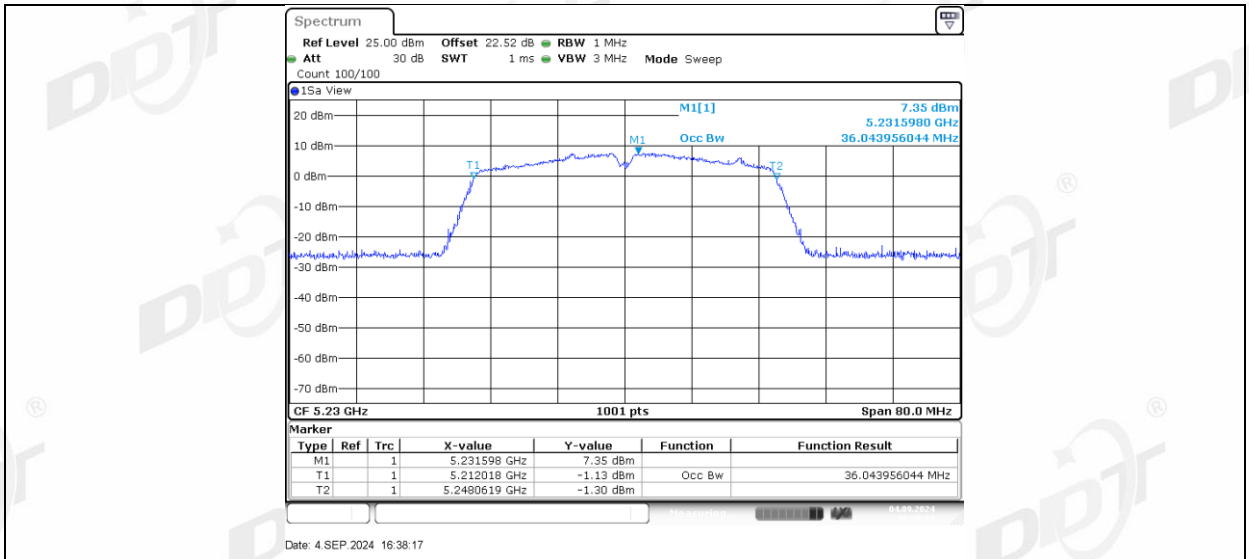
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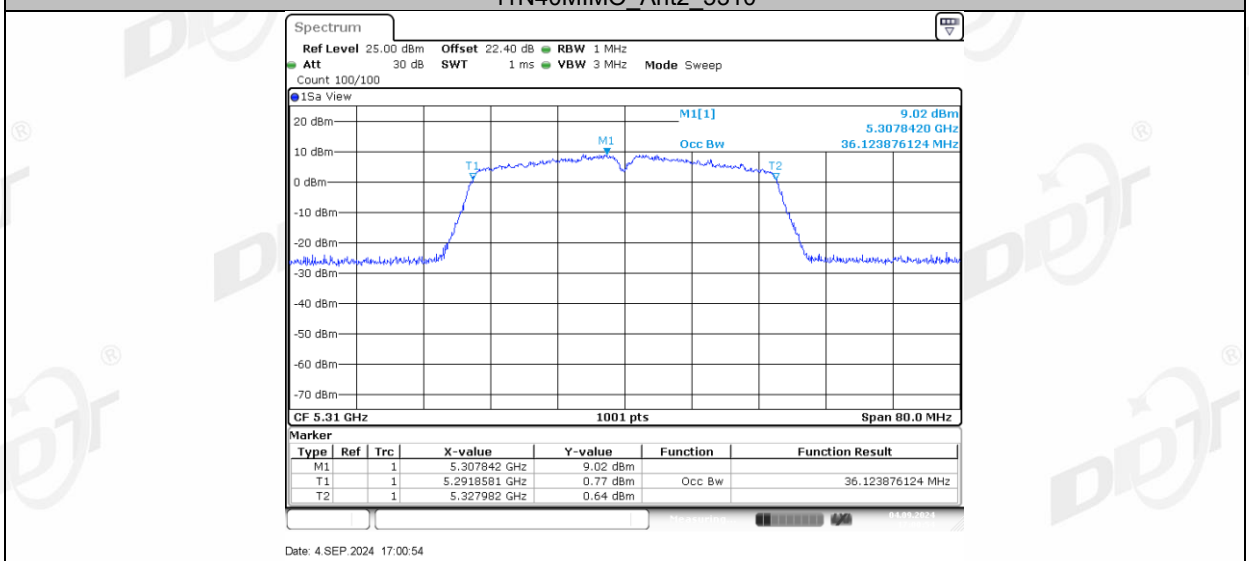
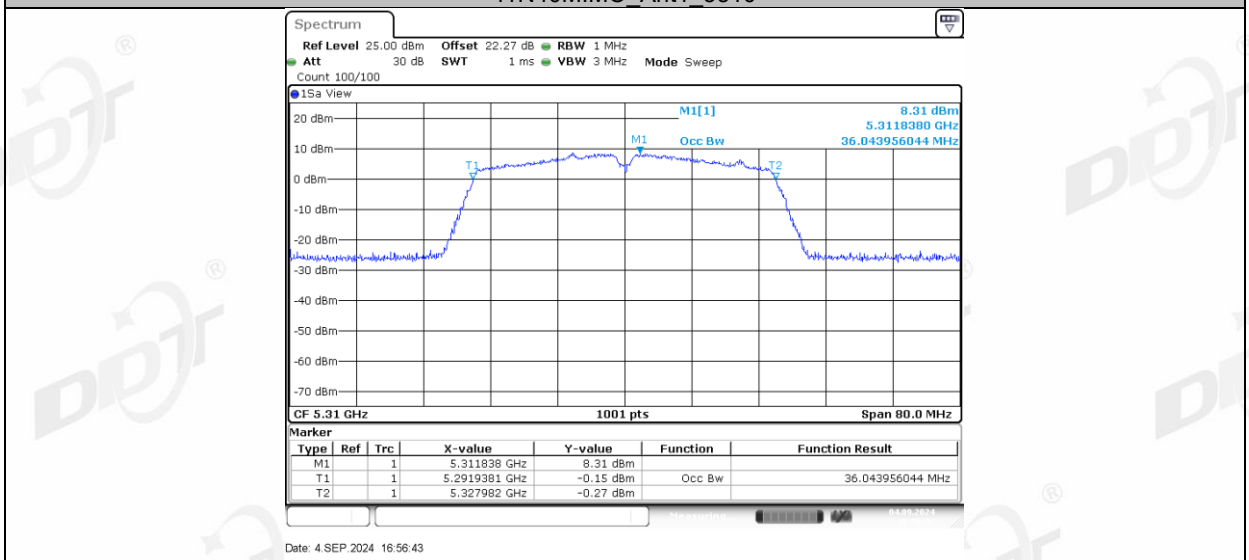
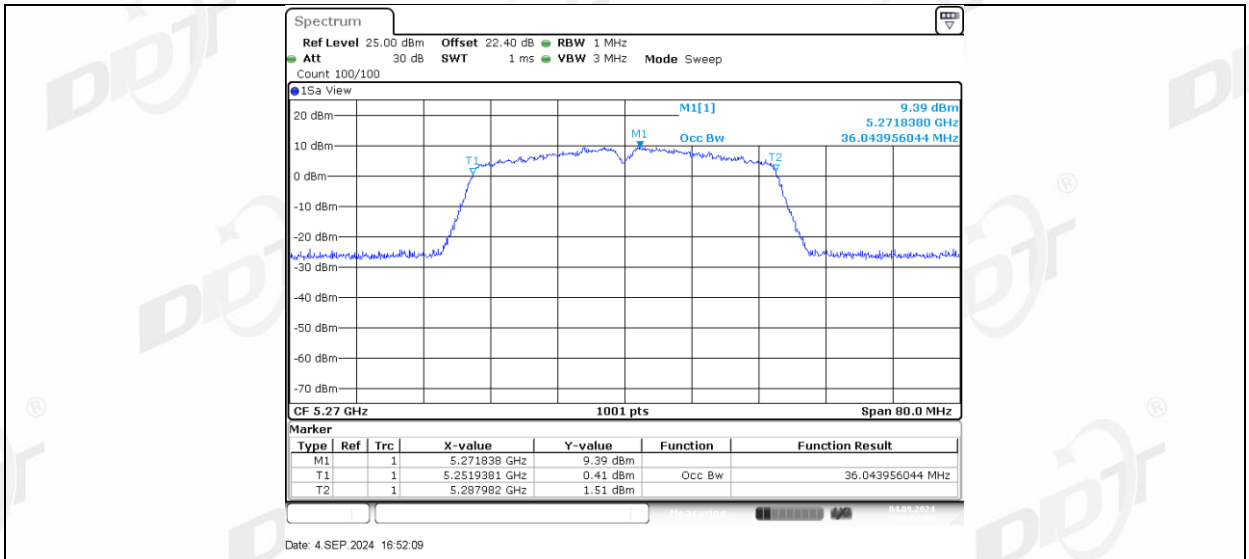


11N40MIMO\_Ant2\_5190



11N40MIMO\_Ant1\_5230





**11N40MIMO\_Ant1\_5510**

