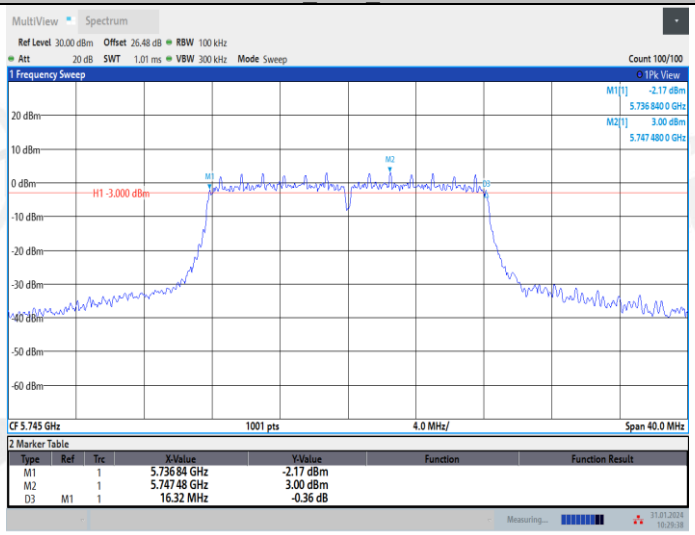
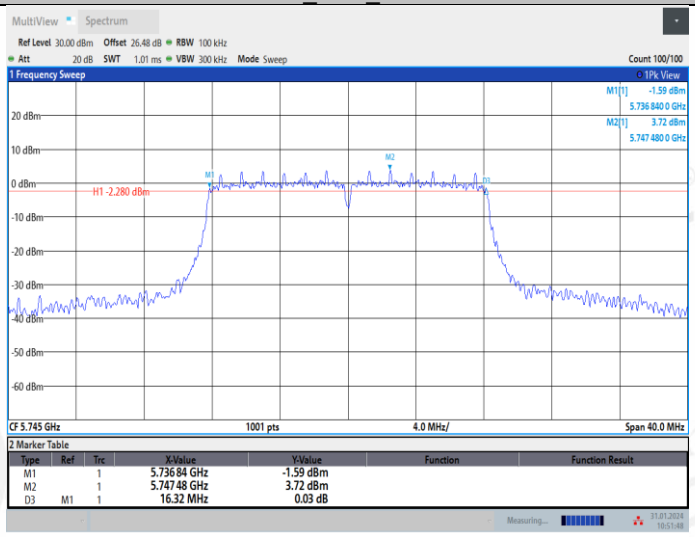
5.5. Test graphs B4

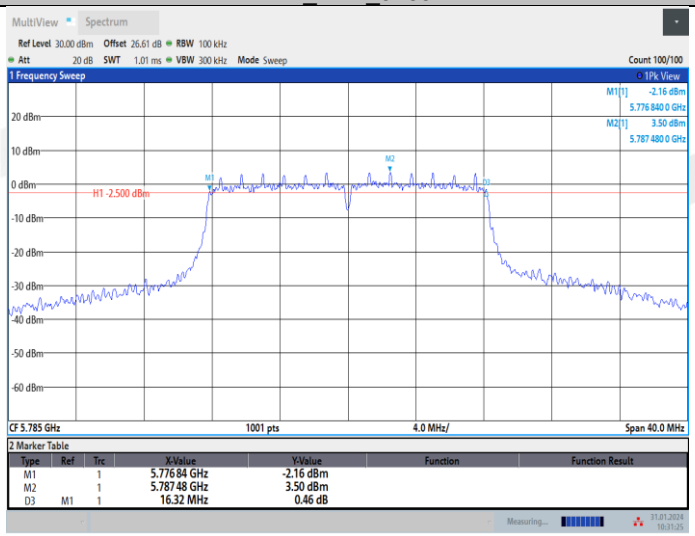
11A_Ant1_5745



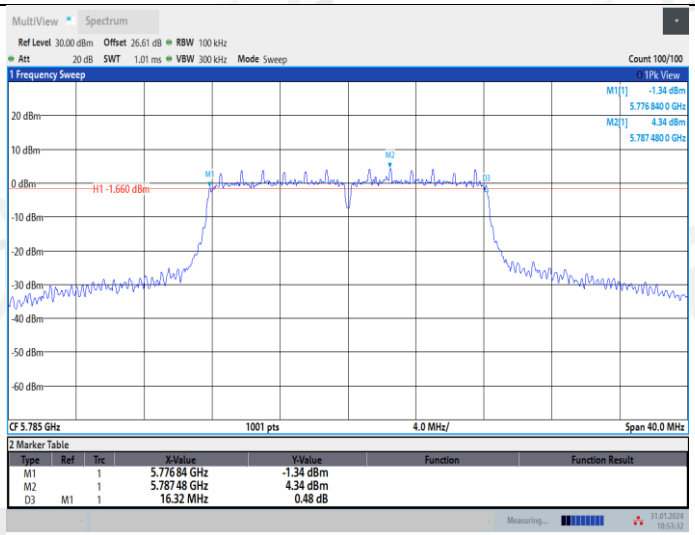
11A_Ant2_5745



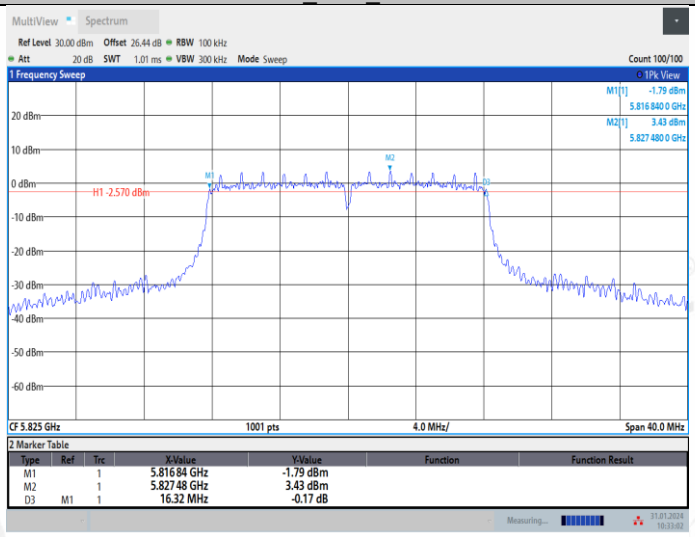
11A_Ant1_5785



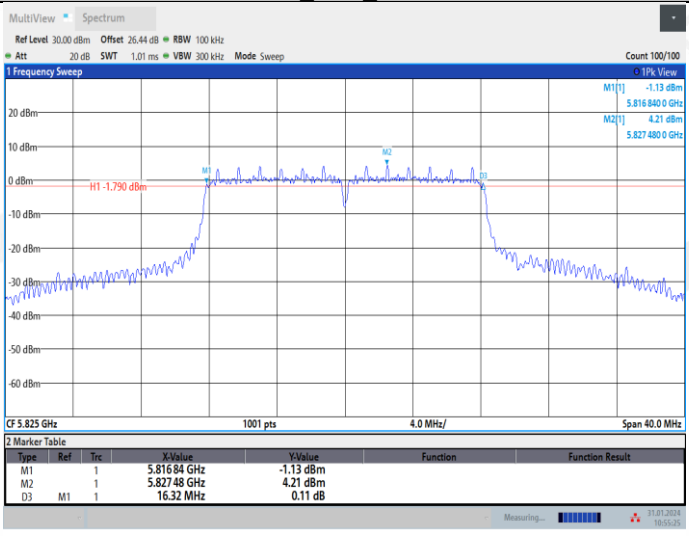
11A_Ant2_5785



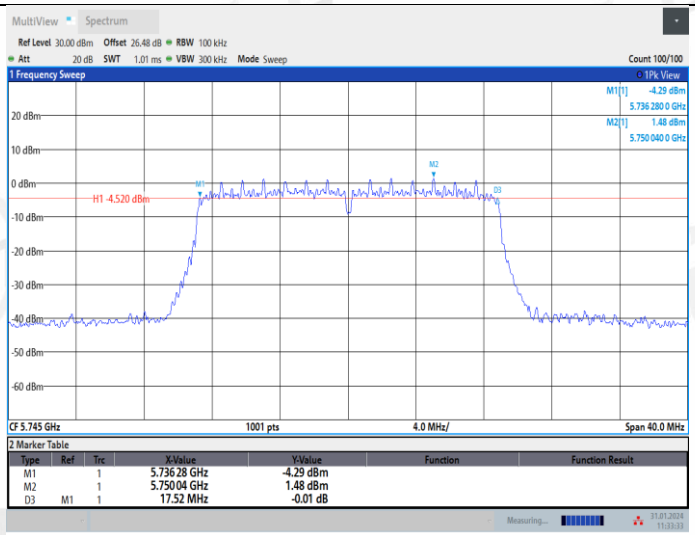
11A_Ant1_5825



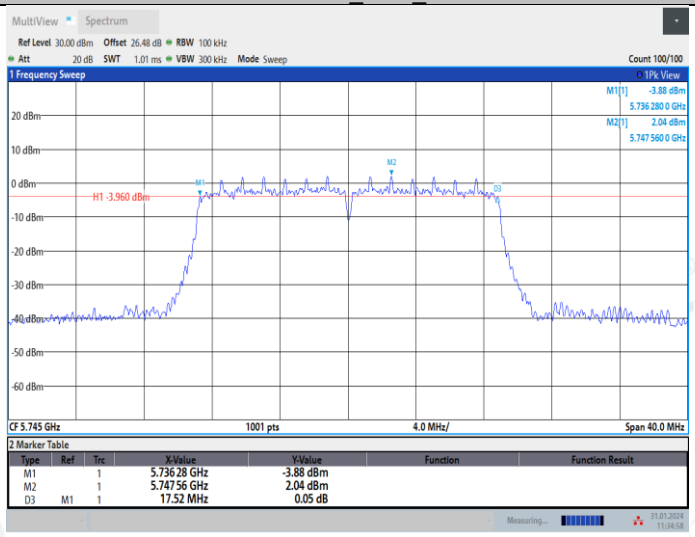
11A_Ant2_5825



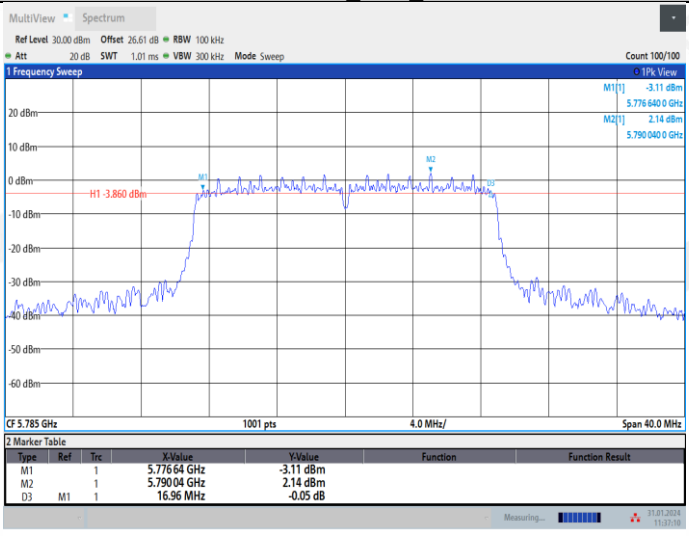
11N20MIMO_Ant1_5745



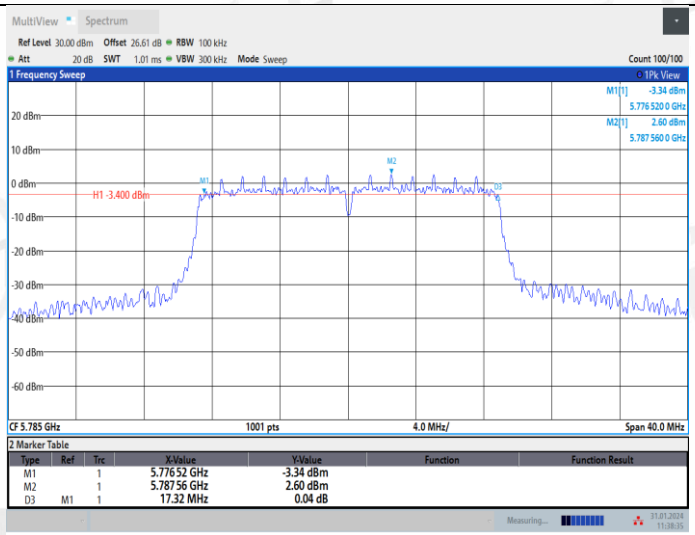
11N20MIMO_Ant2_5745



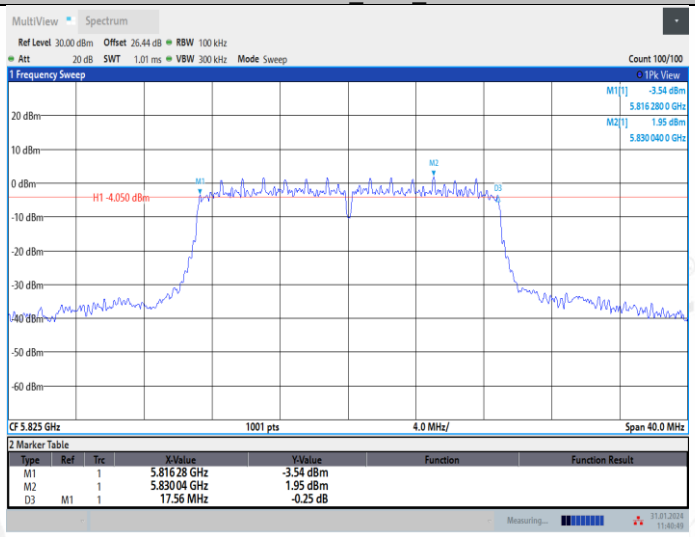
11N20MIMO_Ant1_5785



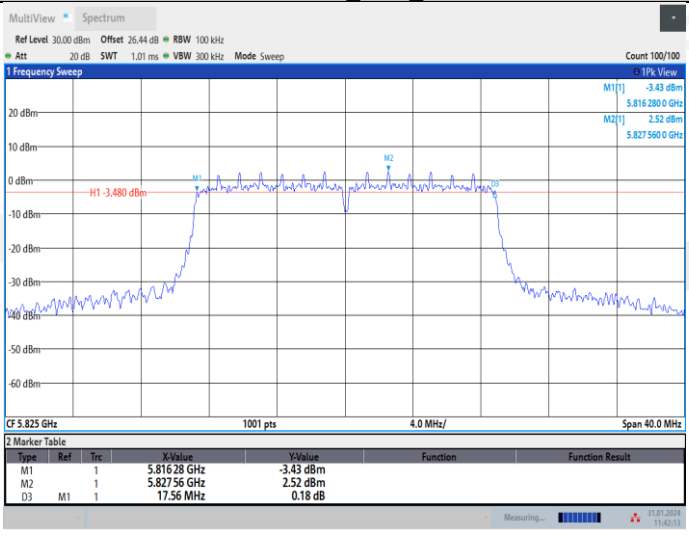
11N20MIMO_Ant2_5785



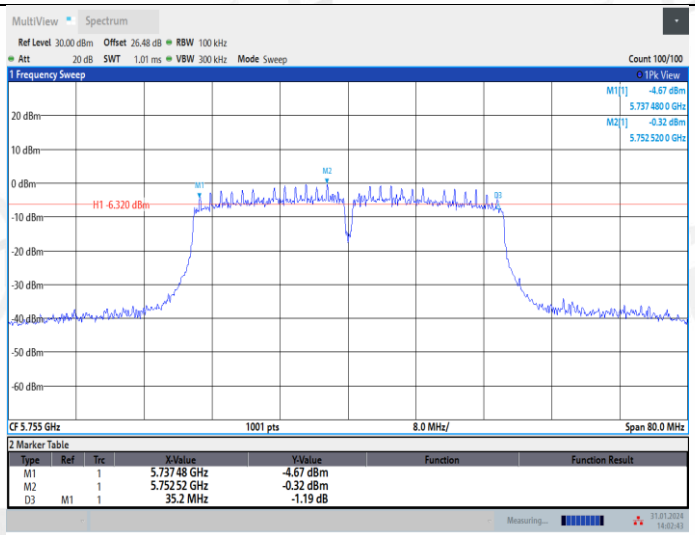
11N20MIMO_Ant1_5825



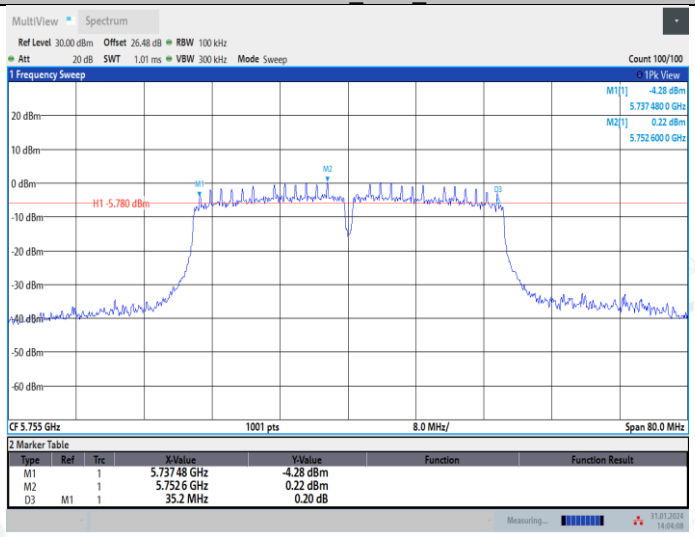
11N20MIMO_Ant2_5825



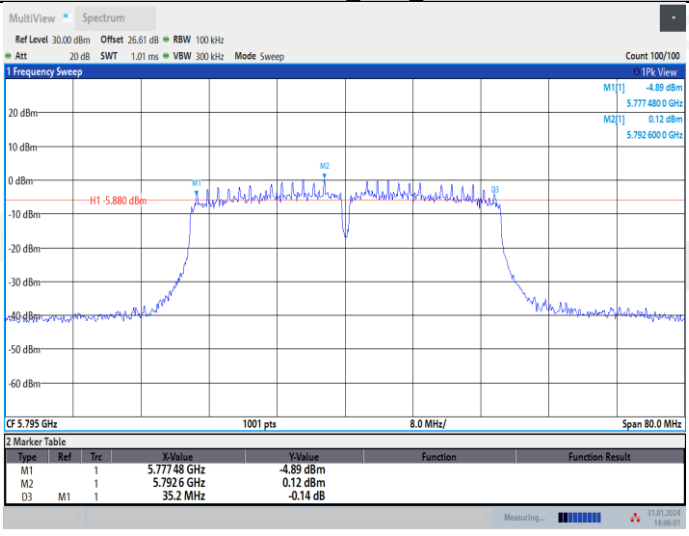
11N40MIMO_Ant1_5755



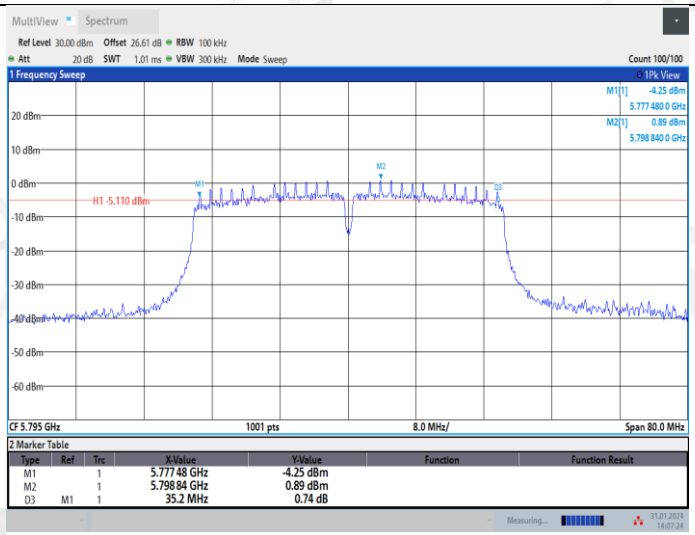
11N40MIMO_Ant2_5755



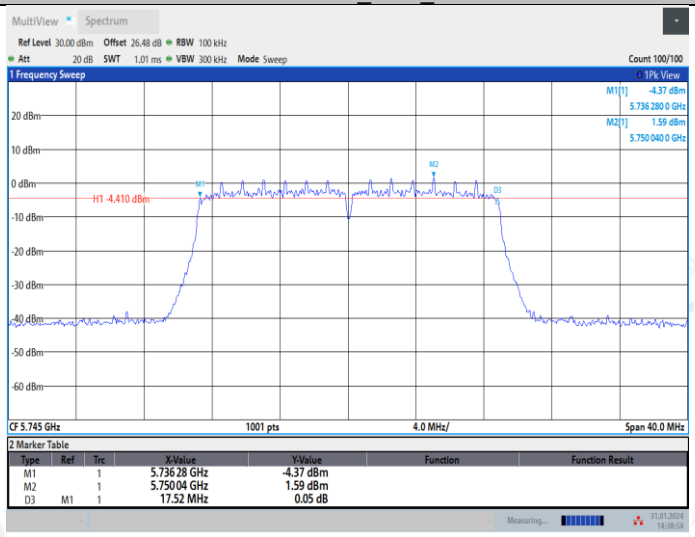
11N40MIMO_Ant1_5795



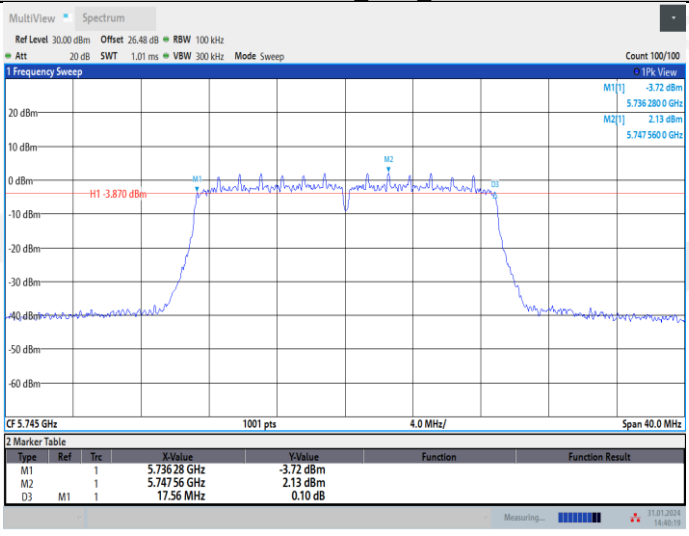
11N40MIMO_Ant2_5795



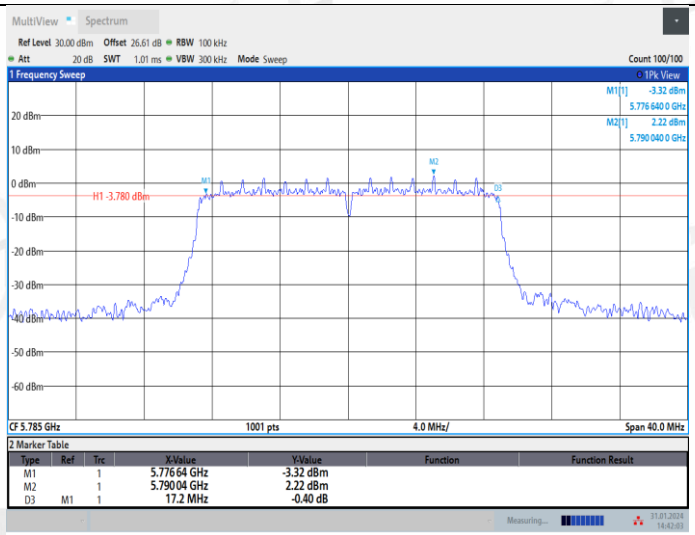
11AC20MIMO_Ant1_5745



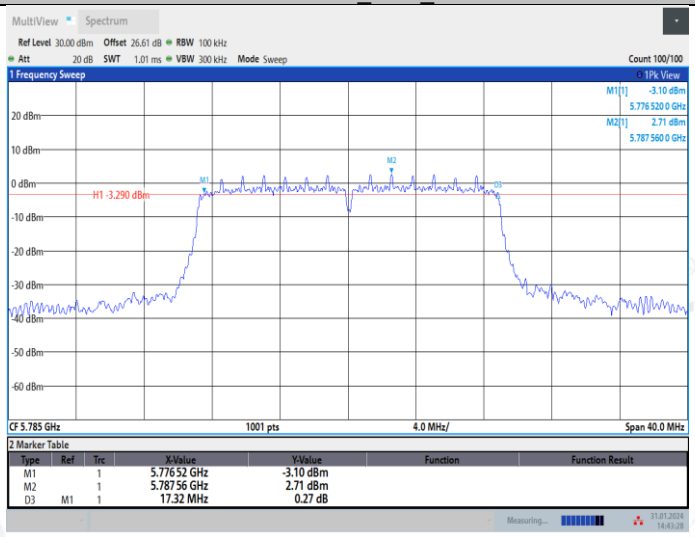
11AC20MIMO_Ant2_5745



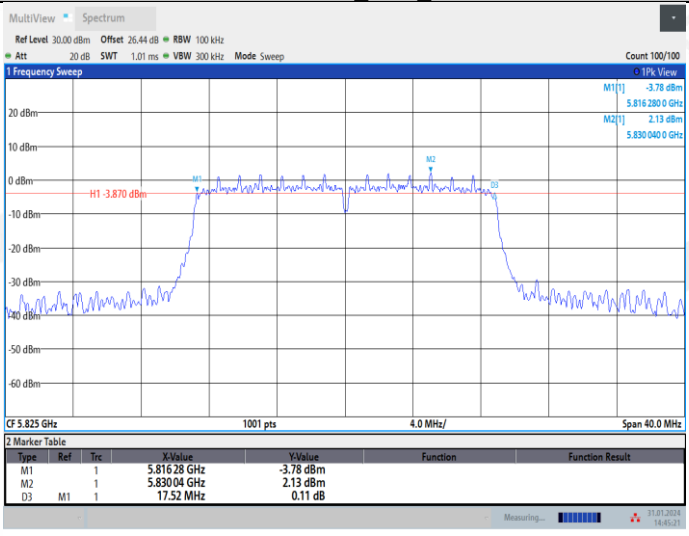
11AC20MIMO_Ant1_5785



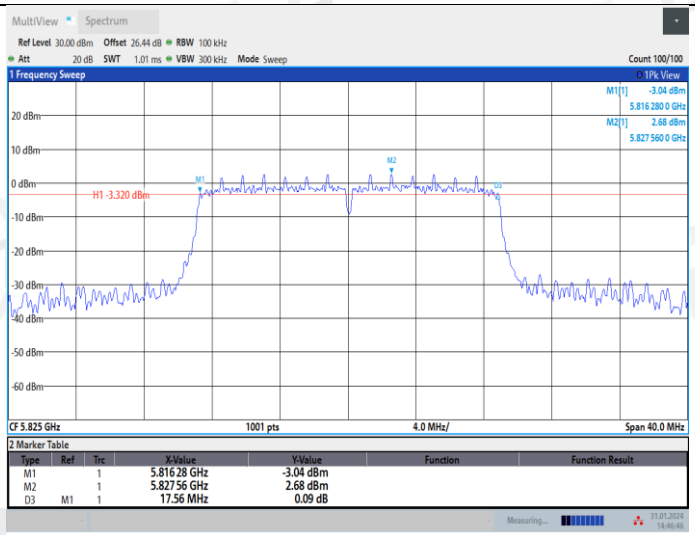
11AC20MIMO_Ant2_5785



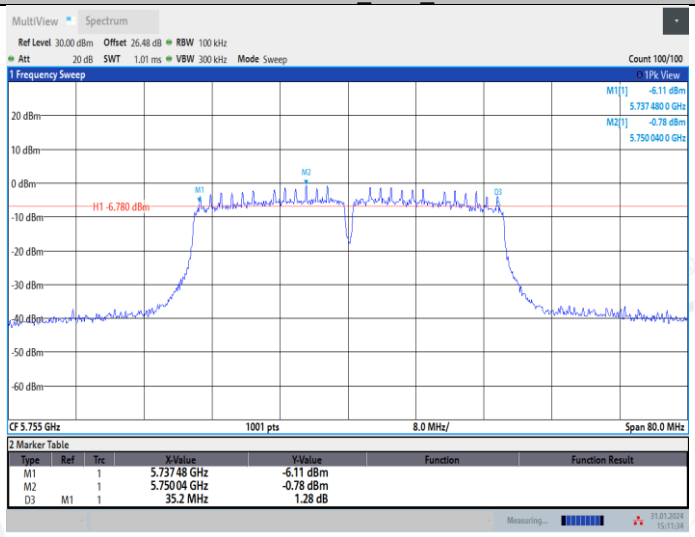
11AC20MIMO_Ant1_5825



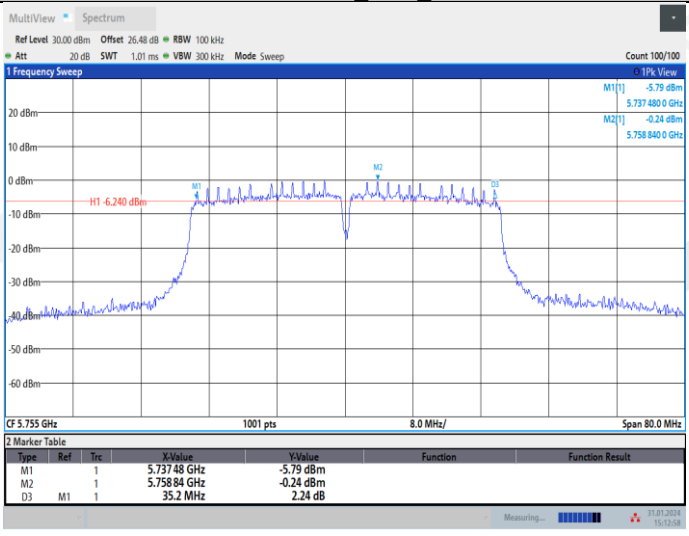
11AC20MIMO_Ant2_5825



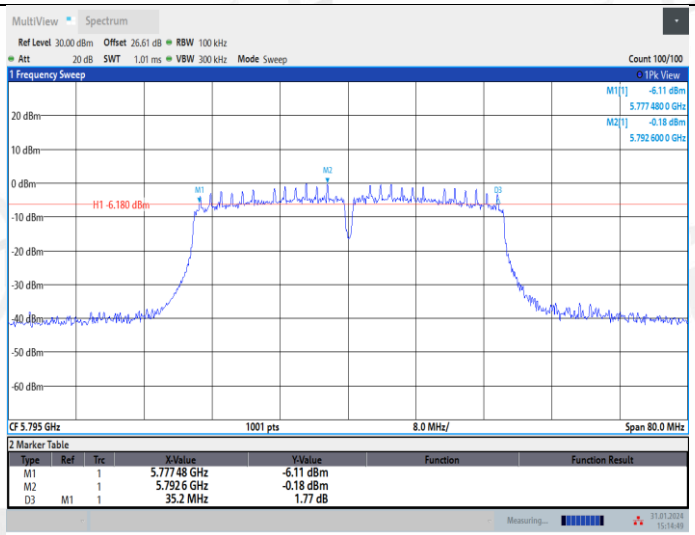
11AC40MIMO_Ant1_5755



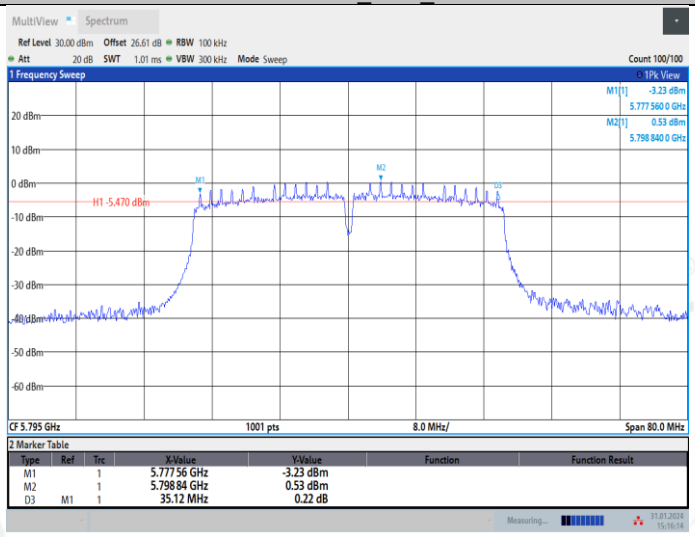
11AC40MIMO_Ant2_5755



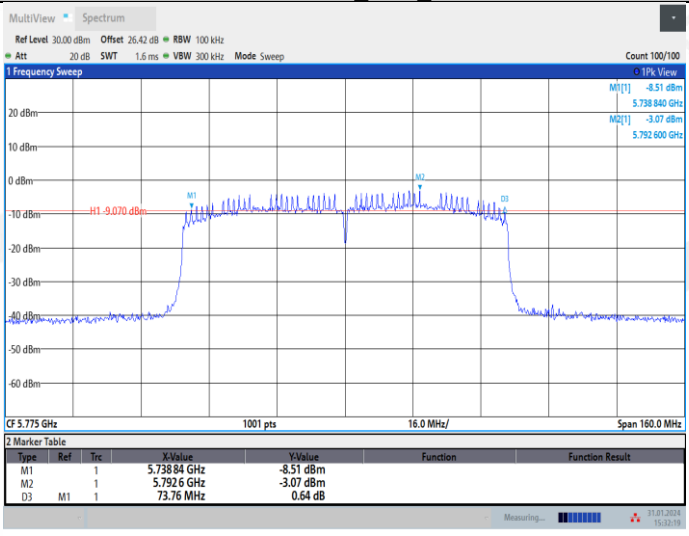
11AC40MIMO_Ant1_5795



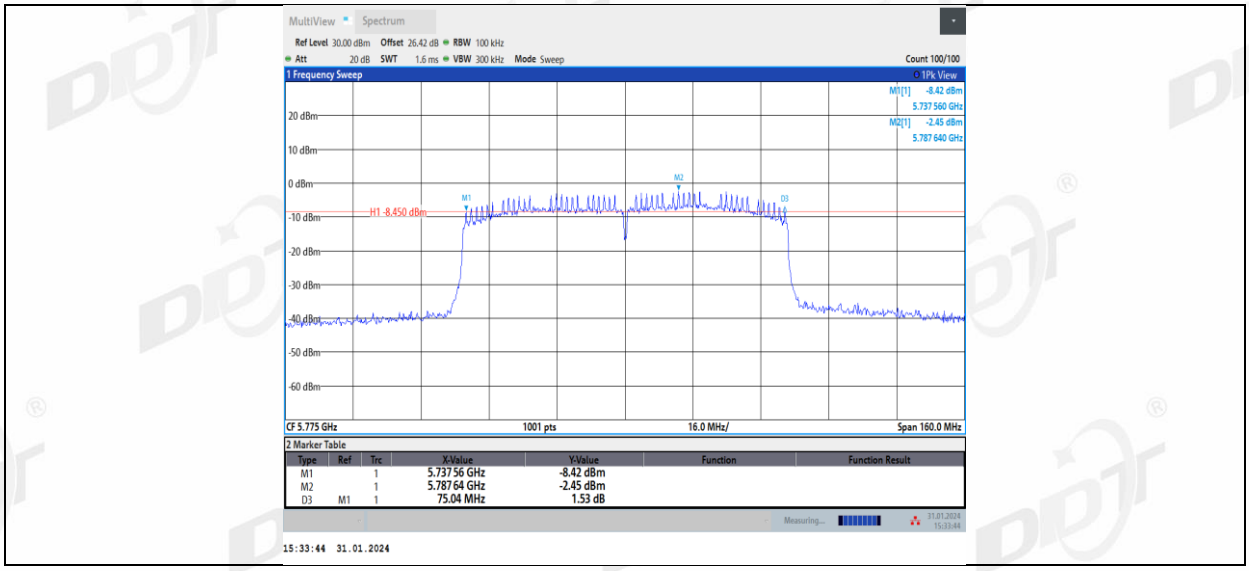
11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5775

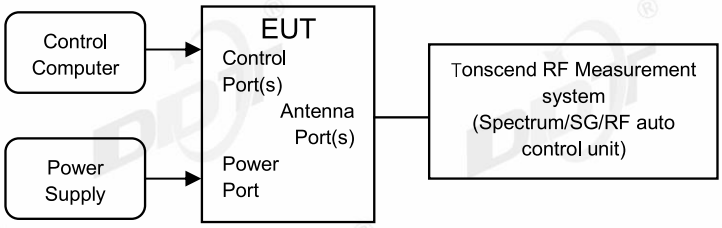


11AC80MIMO_Ant2_5775


MultiView
Spectrum
Ref Level 30.00 dBm Offset 26.42 dB RBW 100 kHz
Att 20 dB SWT 1.6 ms VBW 300 kHz Mode Sweep
Count 100/100
1 Frequency Sweep
1Pk View
M1[1] -8.42 dBm
5.737 560 GHz
M2[1] -2.45 dBm
5.787 640 GHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
H1 -8.450 dBm
M1
M2
D3
CF 5.775 GHz
1001 pts
16.0 MHz/
Span 160.0 MHz
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 5.737 56 GHz -8.42 dBm
M2 1 5.787 64 GHz -2.45 dBm
D3 M1 1 75.04 MHz 1.53 dB
Measuring...
15:33:44 31.01.2024

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:	Haofeng CHEN	Test Site:	RF Measurement System 4#
Ambient Condition:	23.6℃,51.2%RH	Test Date:	2024.01.22-2024.01.31
Test Power Supply:	DC 5V	EUT:	AIoT Edge Controller
Sample Number:	S23111537-05	Model No.:	MB41

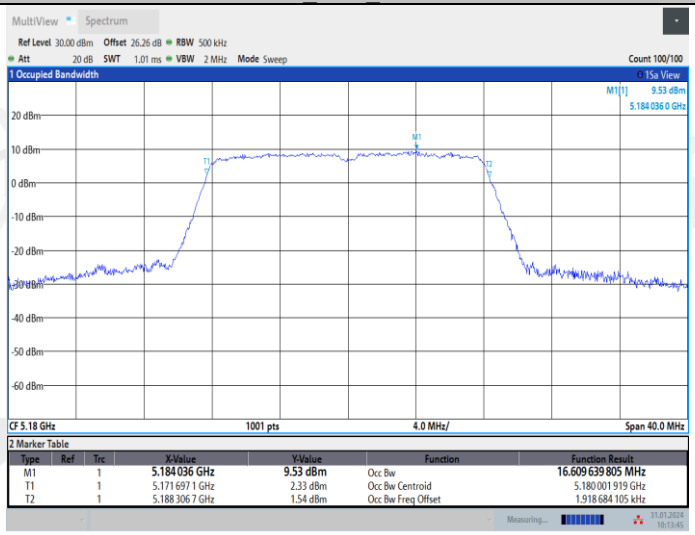
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.61	5171.6971	5188.3067	---	---
	Ant2	5180	16.64	5171.7059	5188.3454	---	---
	Ant1	5200	16.606	5191.6859	5208.2916	---	---
	Ant2	5200	16.617	5191.6918	5208.3084	---	---
	Ant1	5240	16.588	5231.7231	5248.3106	---	---
	Ant2	5240	16.699	5231.7079	5248.4070	---	---
	Ant1	5260	16.555	5251.7225	5268.2775	---	---
	Ant2	5260	16.586	5251.7105	5268.2963	---	---
	Ant1	5280	16.612	5271.6822	5288.2940	---	---
	Ant2	5280	16.602	5271.7044	5288.3065	---	---
	Ant1	5320	16.586	5311.7190	5328.3047	---	---
	Ant2	5320	16.578	5311.7101	5328.2884	---	---
	Ant1	5500	16.563	5491.7159	5508.2789	---	---
	Ant2	5500	16.725	5491.6855	5508.4105	---	---
	Ant1	5580	16.579	5571.7158	5588.2946	---	---
	Ant2	5580	16.657	5571.6809	5588.3381	---	---
	Ant1	5700	16.573	5691.7379	5708.3107	---	---
	Ant2	5700	16.695	5691.6791	5708.3739	---	---
	Ant1	5720	16.597	5711.6806	5728.2773	---	---
	Ant2	5720	16.583	5711.7105	5728.2933	---	---
	Ant1	5720_UNII-2C	13.319	5711.6806	5725	---	---
	Ant2	5720_UNII-2C	13.289	5711.7105	5725	---	---
	Ant1	5720_UNII-3	3.277	5725	5728.2773	---	---
	Ant2	5720_UNII-3	3.293	5725	5728.2933	---	---
	Ant1	5745	16.661	5736.6989	5753.3602	---	---
	Ant2	5745	16.579	5736.7265	5753.3058	---	---
	Ant1	5785	16.742	5776.6858	5793.4274	---	---
	Ant2	5785	16.7	5776.7013	5793.4018	---	---
	Ant1	5825	16.715	5816.6464	5833.3611	---	---
	Ant2	5825	16.866	5816.6298	5833.4962	---	---
11N20MIMO	Ant1	5180	17.612	5171.2257	5188.8381	---	---
	Ant2	5180	17.68	5171.1965	5188.8768	---	---
	Ant1	5200	17.63	5191.1994	5208.8293	---	---
	Ant2	5200	17.653	5191.1929	5208.8456	---	---
	Ant1	5240	17.612	5231.2432	5248.8552	---	---
	Ant2	5240	17.651	5231.2138	5248.8644	---	---
	Ant1	5260	17.643	5251.2205	5268.8634	---	---
	Ant2	5260	17.69	5251.2176	5268.9072	---	---
	Ant1	5280	17.641	5271.2234	5288.8648	---	---
	Ant2	5280	17.701	5271.1940	5288.8951	---	---
	Ant1	5320	17.635	5311.2333	5328.8682	---	---
	Ant2	5320	17.721	5311.1849	5328.9060	---	---
	Ant1	5500	17.666	5491.2306	5508.8961	---	---
	Ant2	5500	17.662	5491.2367	5508.8986	---	---
	Ant1	5580	17.651	5571.2230	5588.8735	---	---
	Ant2	5580	17.691	5571.1990	5588.8903	---	---
	Ant1	5700	17.596	5691.2547	5708.8503	---	---
	Ant2	5700	17.678	5691.2204	5708.8982	---	---
	Ant1	5720	17.633	5711.2318	5728.8650	---	---
	Ant2	5720	17.677	5711.2098	5728.8865	---	---
	Ant1	5720_UNII-2C	13.768	5711.2318	5725	---	---
	Ant2	5720_UNII-2C	13.79	5711.2098	5725	---	---
	Ant1	5720_UNII-3	3.865	5725	5728.8650	---	---
	Ant2	5720_UNII-3	3.886	5725	5728.8865	---	---
	Ant1	5745	17.583	5736.2583	5753.8416	---	---

	Ant2	5745	17.665	5736.2334	5753.8982	---	---
	Ant1	5785	17.63	5776.2616	5793.8920	---	---
	Ant2	5785	17.675	5776.2538	5793.9287	---	---
	Ant1	5825	17.697	5816.2112	5833.9084	---	---
	Ant2	5825	17.699	5816.2269	5833.9254	---	---
11N40MIMO	Ant1	5190	36.282	5171.9010	5208.1834	---	---
	Ant2	5190	36.146	5172.0082	5208.1545	---	---
	Ant1	5230	36.253	5211.8565	5248.1090	---	---
	Ant2	5230	36.422	5211.8231	5248.2449	---	---
	Ant1	5270	36.353	5251.8106	5288.1639	---	---
	Ant2	5270	36.502	5251.8055	5288.3078	---	---
	Ant1	5310	36.358	5291.7940	5328.1522	---	---
	Ant2	5310	36.477	5291.6800	5328.1571	---	---
	Ant1	5510	36.313	5491.9078	5528.2211	---	---
	Ant2	5510	36.607	5491.9588	5528.5659	---	---
	Ant1	5550	36.108	5531.8564	5567.9647	---	---
	Ant2	5550	36.243	5531.9140	5568.1572	---	---
	Ant1	5670	36.282	5651.8286	5688.1109	---	---
	Ant2	5670	36.554	5651.6417	5688.1960	---	---
	Ant1	5710	36.178	5691.9114	5728.0892	---	---
	Ant2	5710	36.166	5691.9758	5728.1420	---	---
	Ant1	5710_UNII-2C	33.089	5691.9114	5725	---	---
	Ant2	5710_UNII-2C	33.024	5691.9758	5725	---	---
	Ant1	5710_UNII-3	3.089	5725	5728.0892	---	---
	Ant2	5710_UNII-3	3.142	5725	5728.1420	---	---
	Ant1	5755	36.191	5736.8598	5773.0511	---	---
	Ant2	5755	36.415	5736.9001	5773.3154	---	---
	Ant1	5795	36.306	5776.9367	5813.2426	---	---
	Ant2	5795	36.27	5776.9403	5813.2100	---	---
11AC20MIMO	Ant1	5180	17.696	5171.2197	5188.9157	---	---
	Ant2	5180	17.704	5171.2186	5188.9225	---	---
	Ant1	5200	17.666	5191.1952	5208.8612	---	---
	Ant2	5200	17.676	5191.2041	5208.8802	---	---
	Ant1	5240	17.694	5231.2100	5248.9040	---	---
	Ant2	5240	17.697	5231.2134	5248.9102	---	---
	Ant1	5260	17.644	5251.2277	5268.8719	---	---
	Ant2	5260	17.655	5251.2209	5268.8761	---	---
	Ant1	5280	17.699	5271.1985	5288.8970	---	---
	Ant2	5280	17.716	5271.1894	5288.9055	---	---
	Ant1	5320	17.67	5311.2117	5328.8817	---	---
	Ant2	5320	17.674	5311.2121	5328.8859	---	---
	Ant1	5500	17.679	5491.2311	5508.9098	---	---
	Ant2	5500	17.696	5491.2349	5508.9310	---	---
	Ant1	5580	17.712	5571.2039	5588.9158	---	---
	Ant2	5580	17.756	5571.1881	5588.9443	---	---
	Ant1	5700	17.671	5691.2271	5708.8982	---	---
	Ant2	5700	17.69	5691.2206	5708.9111	---	---
	Ant1	5720	17.661	5711.2130	5728.8741	---	---
	Ant2	5720	17.674	5711.2182	5728.8919	---	---
	Ant1	5720_UNII-2C	13.787	5711.2130	5725	---	---
	Ant2	5720_UNII-2C	13.782	5711.2182	5725	---	---
	Ant1	5720_UNII-3	3.874	5725	5728.8741	---	---
	Ant2	5720_UNII-3	3.892	5725	5728.8919	---	---
	Ant1	5745	17.693	5736.2219	5753.9147	---	---
	Ant2	5745	17.702	5736.2241	5753.9261	---	---
	Ant1	5785	17.726	5776.2328	5793.9588	---	---
	Ant2	5785	17.742	5776.2225	5793.9645	---	---
	Ant1	5825	17.74	5816.1924	5833.9324	---	---
	Ant2	5825	17.773	5816.1906	5833.9636	---	---
11AC40MIMO	Ant1	5190	36.324	5171.8671	5208.1912	---	---
	Ant2	5190	36.331	5171.8861	5208.2174	---	---
	Ant1	5230	36.31	5211.8874	5248.1977	---	---
	Ant2	5230	36.305	5211.8934	5248.1983	---	---
	Ant1	5270	36.267	5251.8820	5288.1493	---	---

	Ant2	5270	36.244	5251.9026	5288.1467	---	---
	Ant1	5310	36.535	5291.7440	5328.2786	---	---
	Ant2	5310	36.537	5291.7154	5328.2522	---	---
	Ant1	5510	36.491	5491.8322	5528.3227	---	---
	Ant2	5510	36.583	5491.8103	5528.3935	---	---
	Ant1	5550	36.255	5531.8233	5568.0780	---	---
	Ant2	5550	36.264	5531.8318	5568.0955	---	---
	Ant1	5670	36.502	5651.8588	5688.3606	---	---
	Ant2	5670	36.502	5651.8801	5688.3822	---	---
	Ant1	5710	36.245	5691.9315	5728.1769	---	---
	Ant2	5710	36.285	5691.9003	5728.1854	---	---
	Ant1	5710_UNII-2C	33.069	5691.9315	5725	---	---
	Ant2	5710_UNII-2C	33.1	5691.9003	5725	---	---
	Ant1	5710_UNII-3	3.177	5725	5728.1769	---	---
	Ant2	5710_UNII-3	3.185	5725	5728.1854	---	---
	Ant1	5755	36.401	5736.8230	5773.2244	---	---
	Ant2	5755	36.437	5736.8391	5773.2766	---	---
	Ant1	5795	36.388	5776.8530	5813.2414	---	---
	Ant2	5795	36.323	5776.8885	5813.2115	---	---
11AC80MIMO	Ant1	5210	75.037	5172.4547	5247.4920	---	---
	Ant2	5210	75.047	5172.5064	5247.5537	---	---
	Ant1	5290	74.817	5252.4818	5327.2990	---	---
	Ant2	5290	74.949	5252.3374	5327.2864	---	---
	Ant1	5530	74.81	5492.7593	5567.5695	---	---
	Ant2	5530	74.963	5492.7081	5567.6715	---	---
	Ant1	5610	74.723	5572.7781	5647.5013	---	---
	Ant2	5610	74.721	5572.6968	5647.4178	---	---
	Ant1	5690	74.744	5652.5891	5727.3335	---	---
	Ant2	5690	74.943	5652.4261	5727.3692	---	---
	Ant1	5690_UNII-2C	72.411	5652.5891	5725	---	---
	Ant2	5690_UNII-2C	72.574	5652.4261	5725	---	---
	Ant1	5690_UNII-3	2.333	5725	5727.3335	---	---
	Ant2	5690_UNII-3	2.369	5725	5727.3692	---	---
	Ant1	5775	74.791	5737.7457	5812.5367	---	---
	Ant2	5775	74.874	5737.6753	5812.5491	---	---

6.5. Test graphs

11A_Ant1_5180



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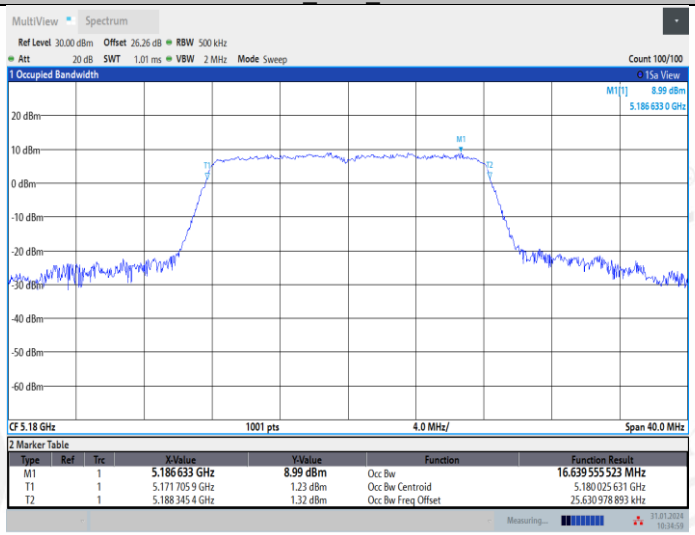

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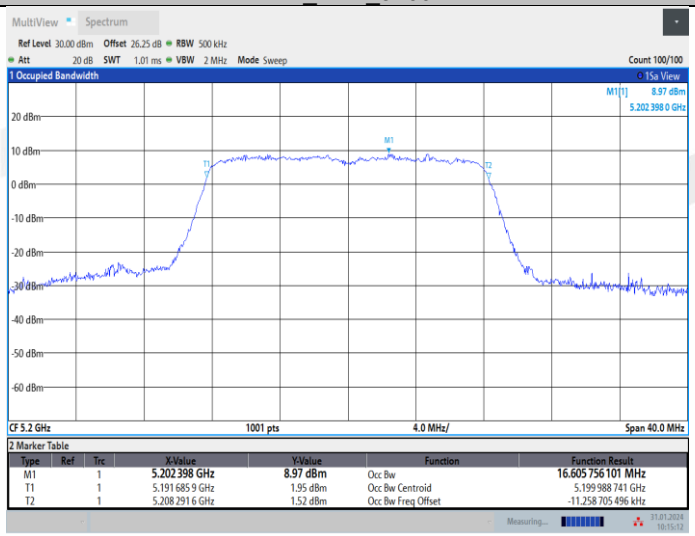

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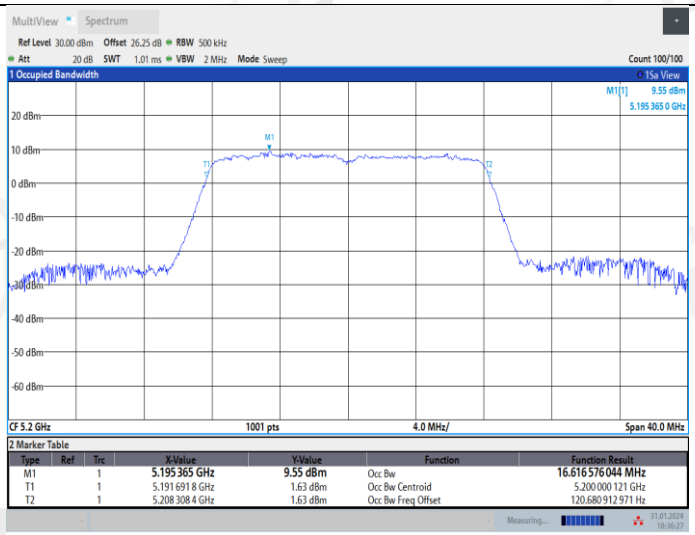

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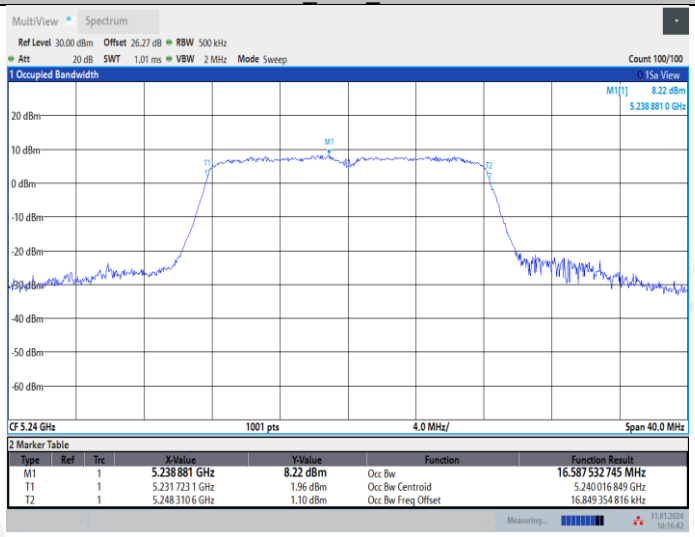

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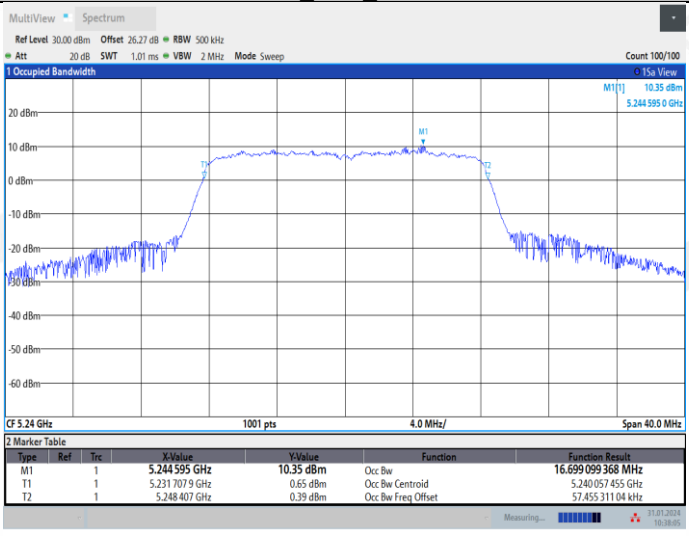

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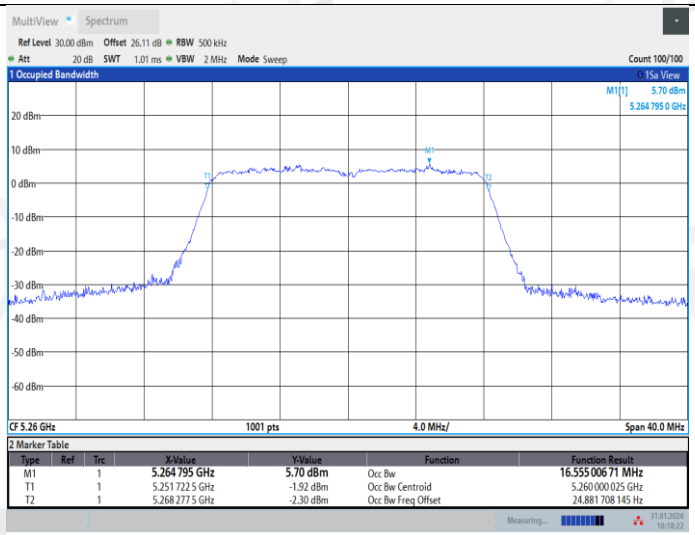

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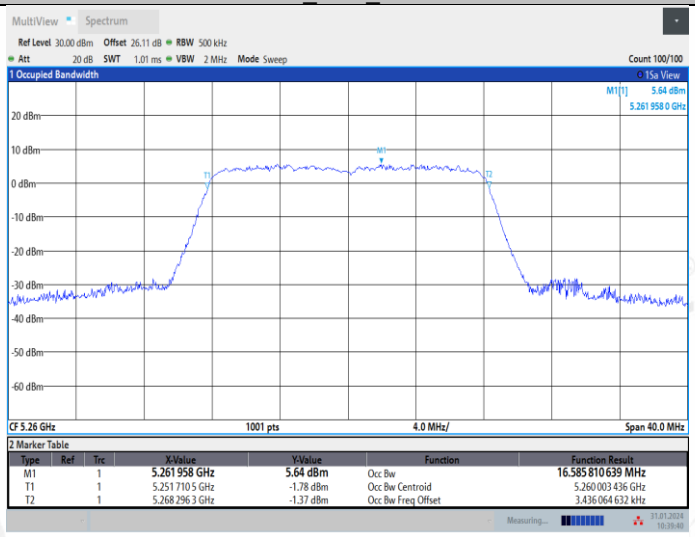

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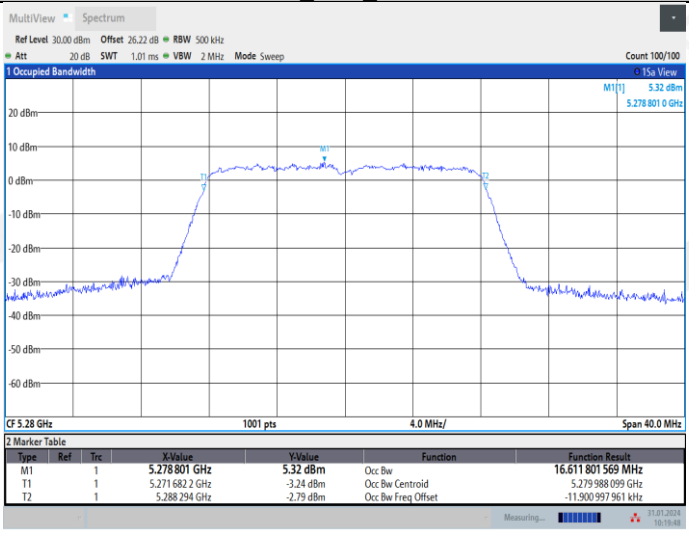

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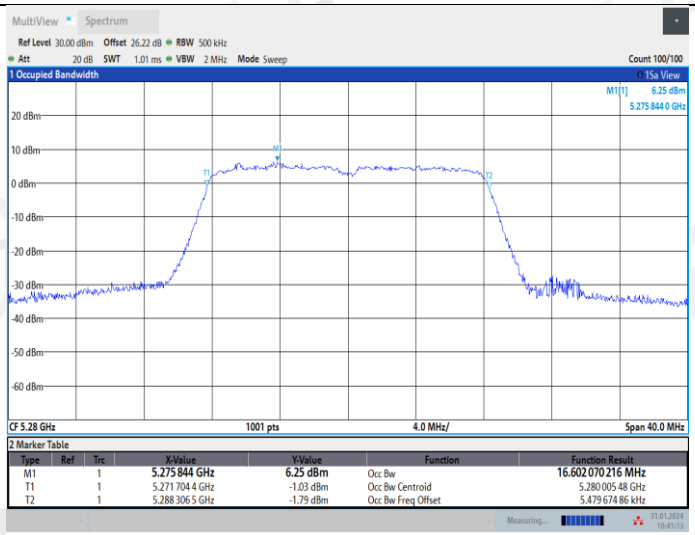

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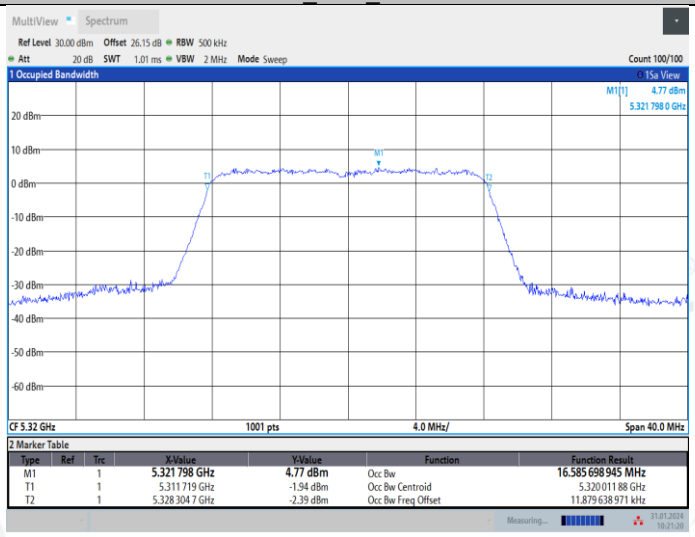

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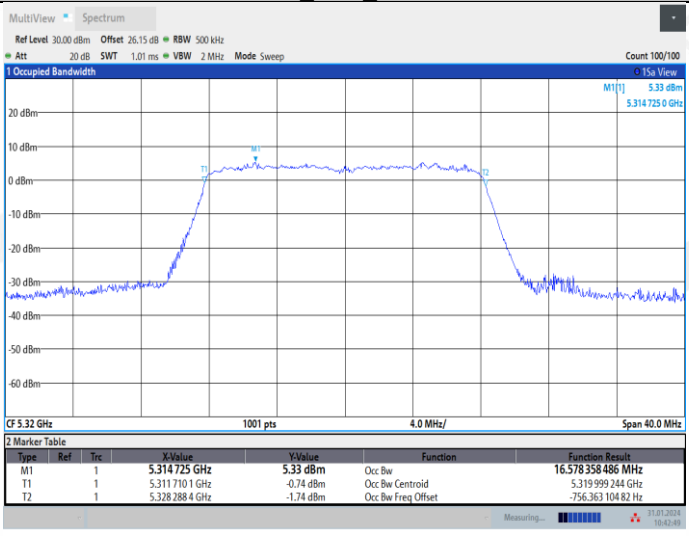

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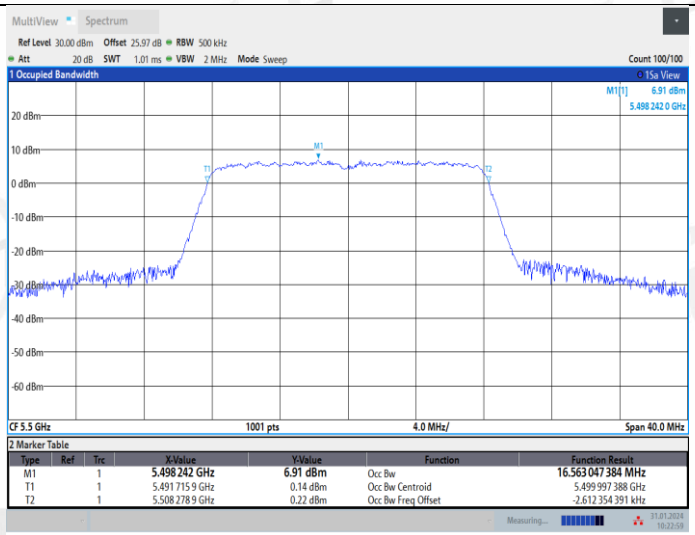

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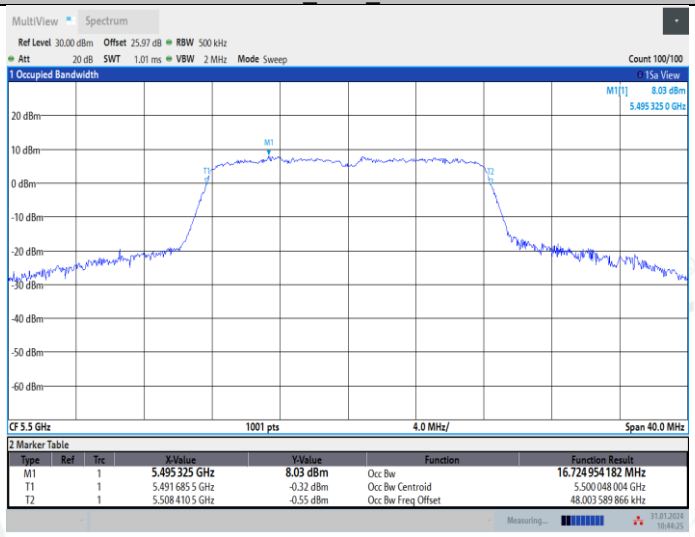

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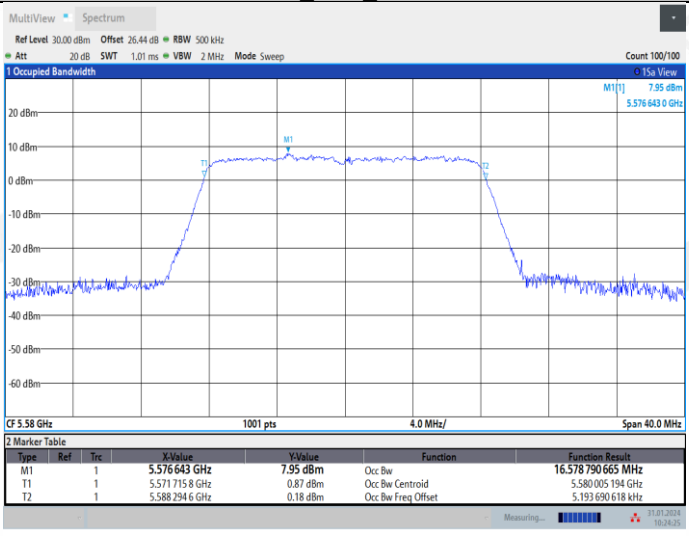

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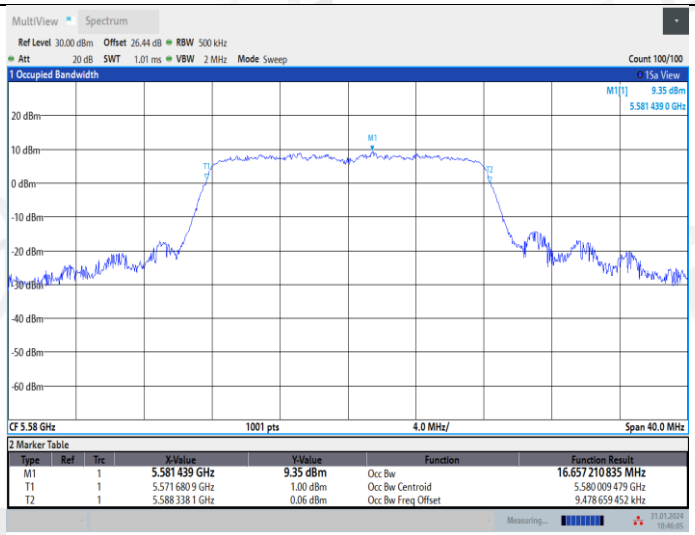

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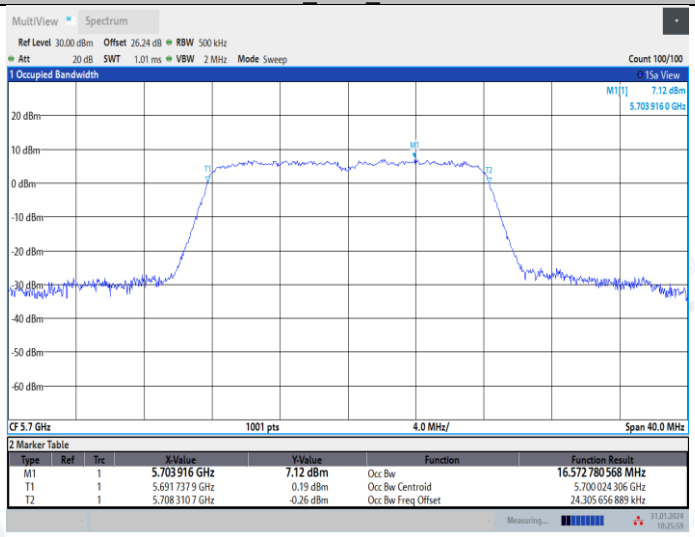

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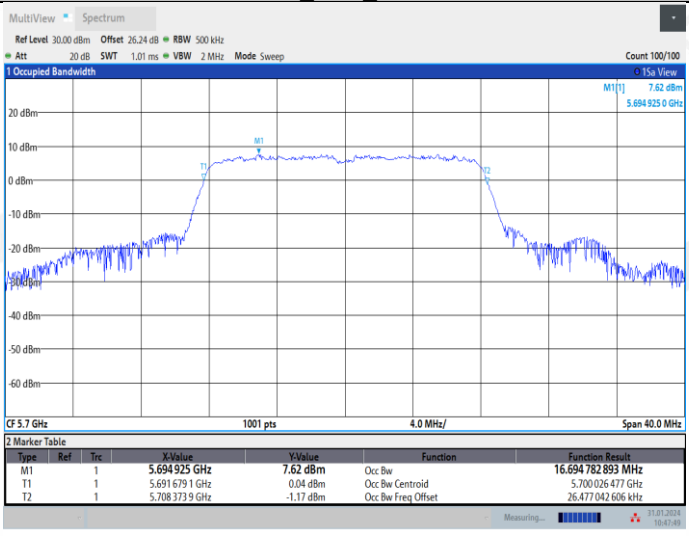

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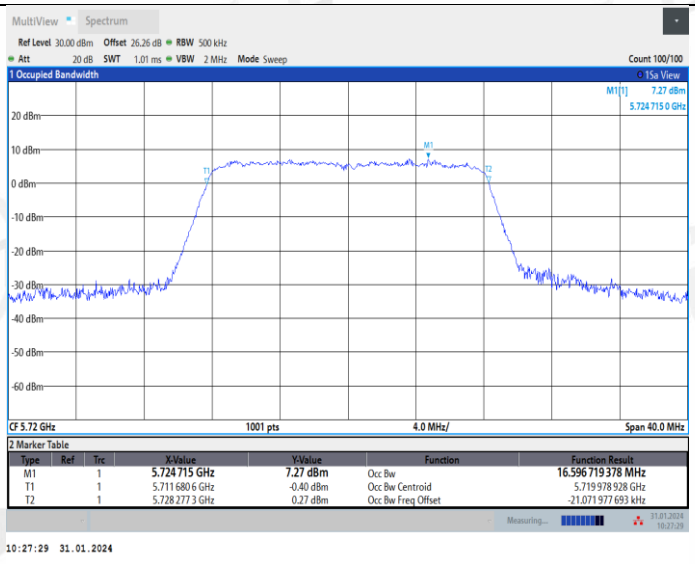

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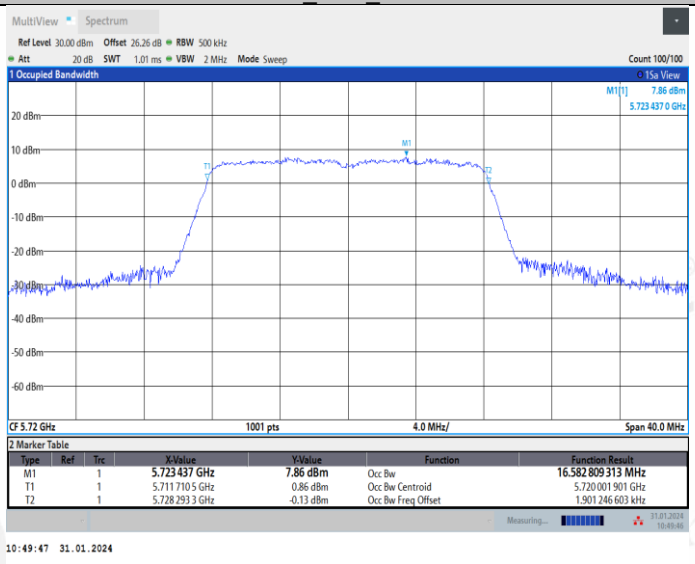

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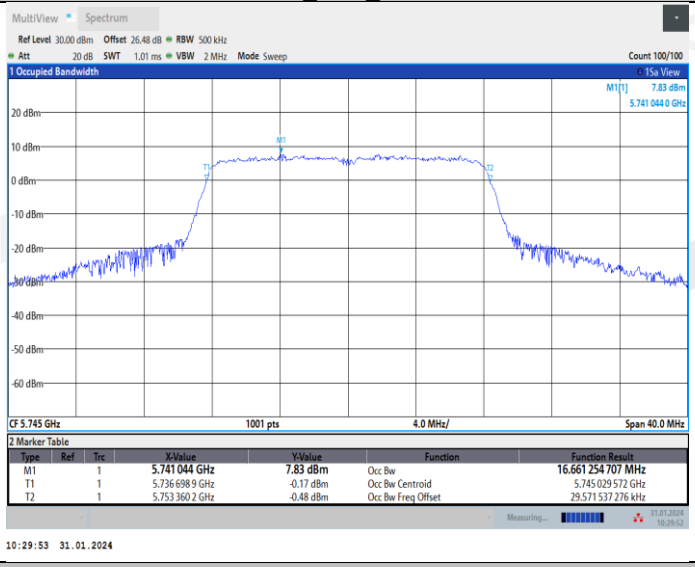

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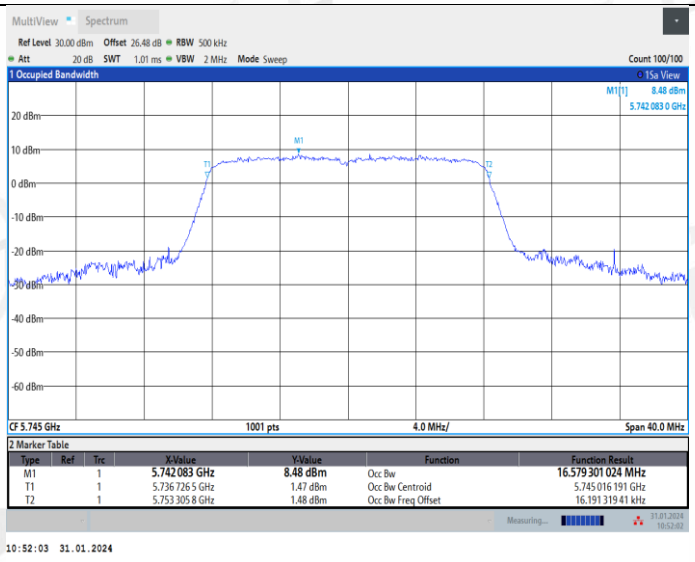

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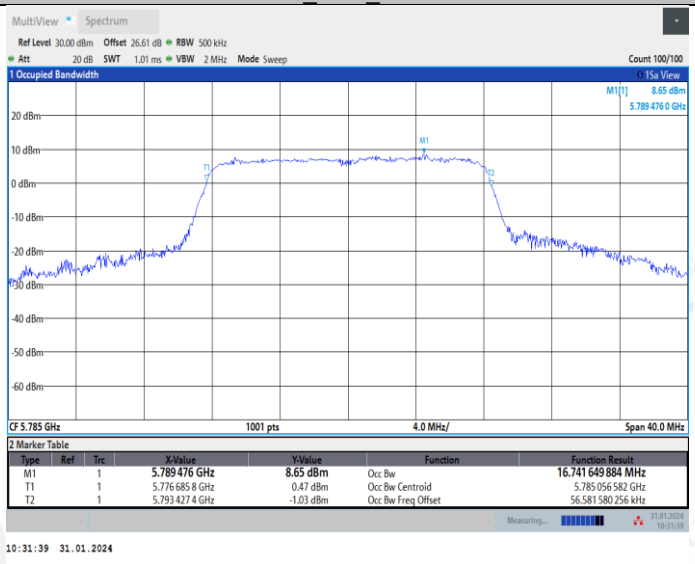

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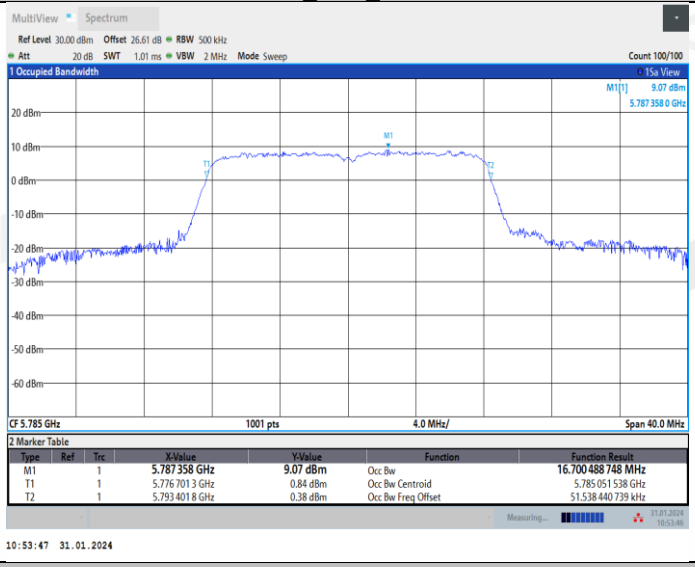

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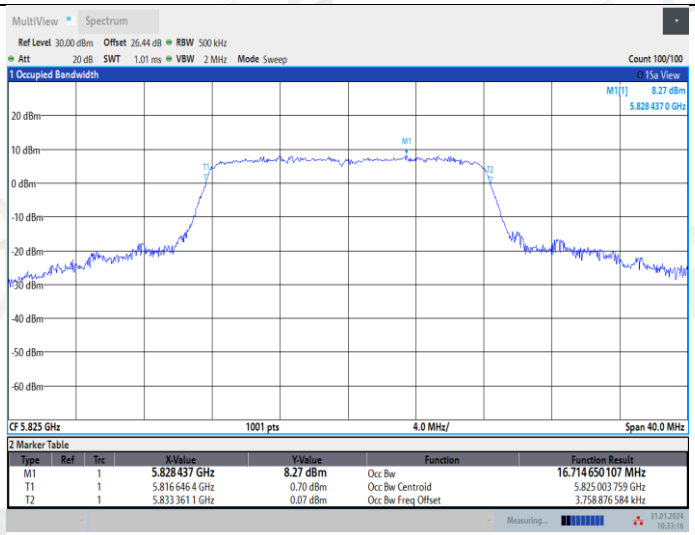

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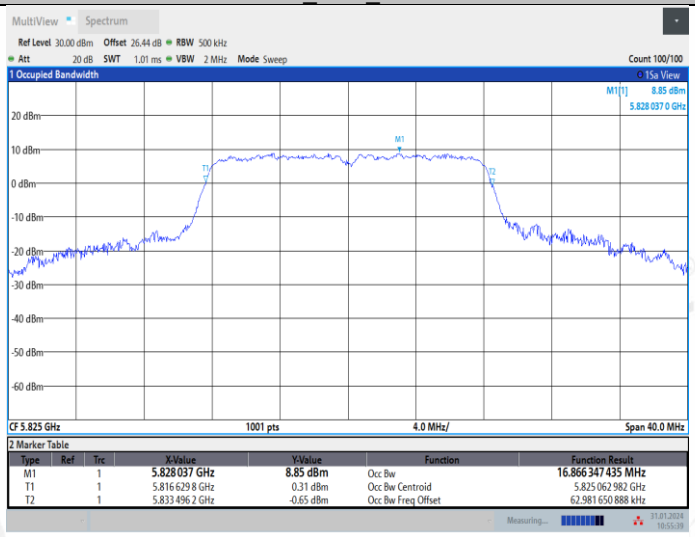

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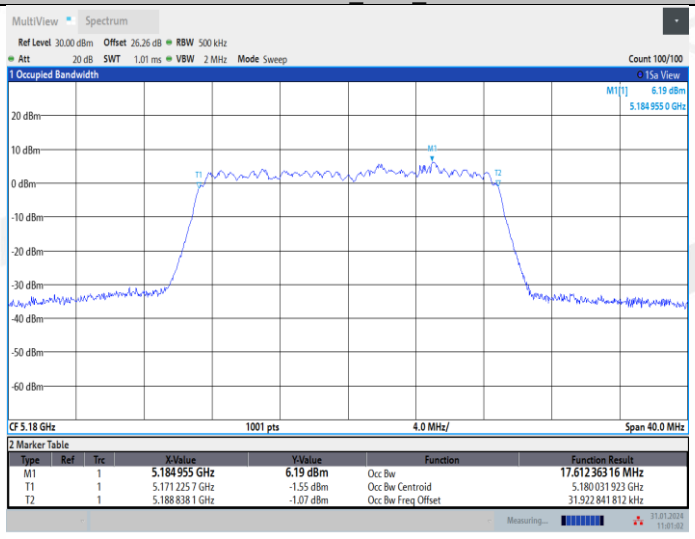

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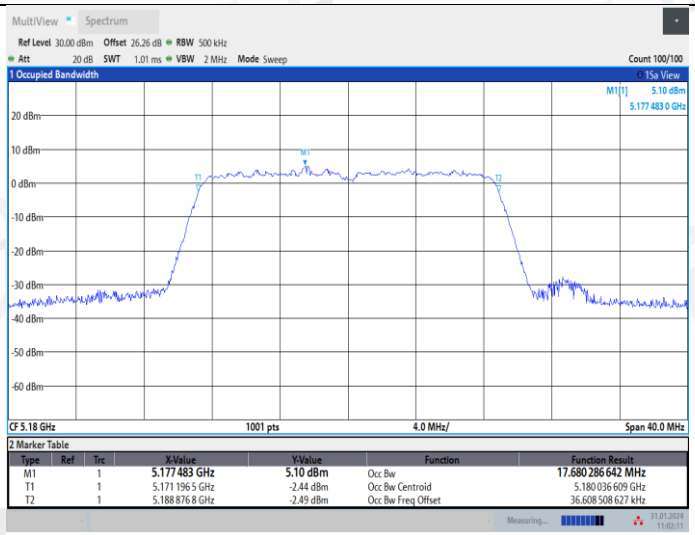

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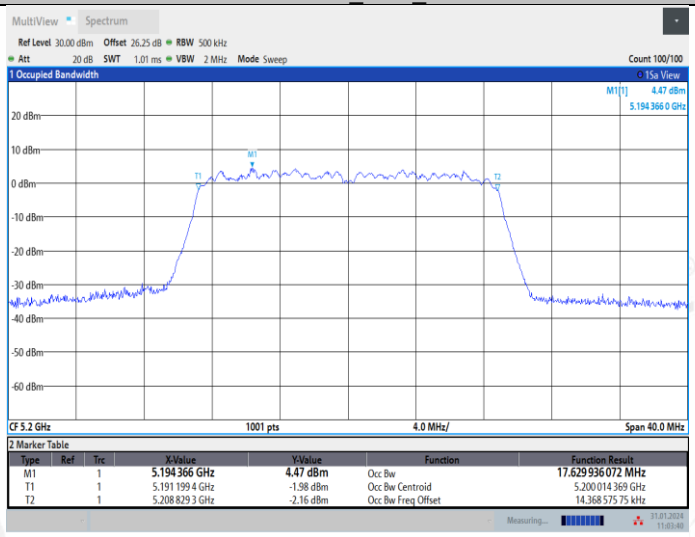

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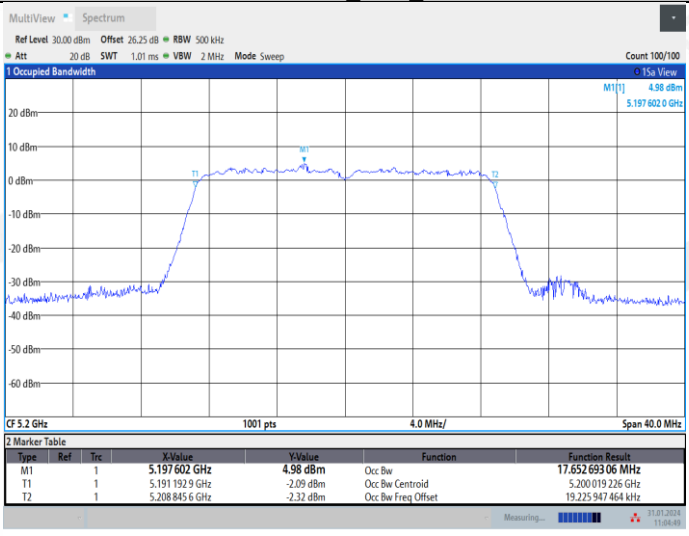

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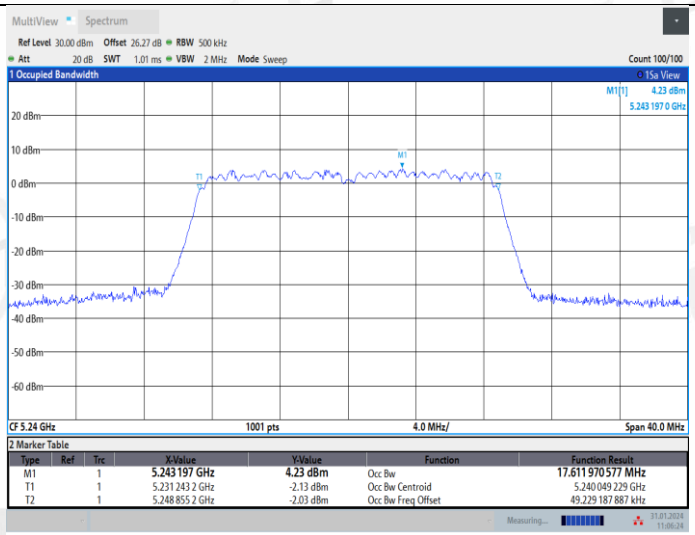

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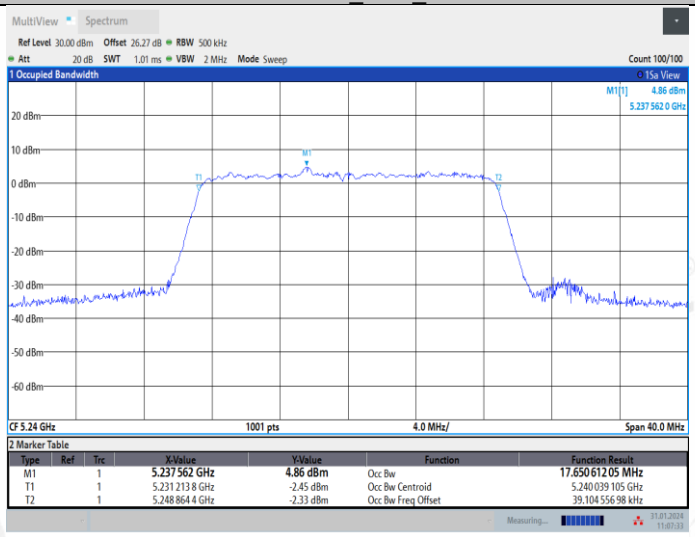

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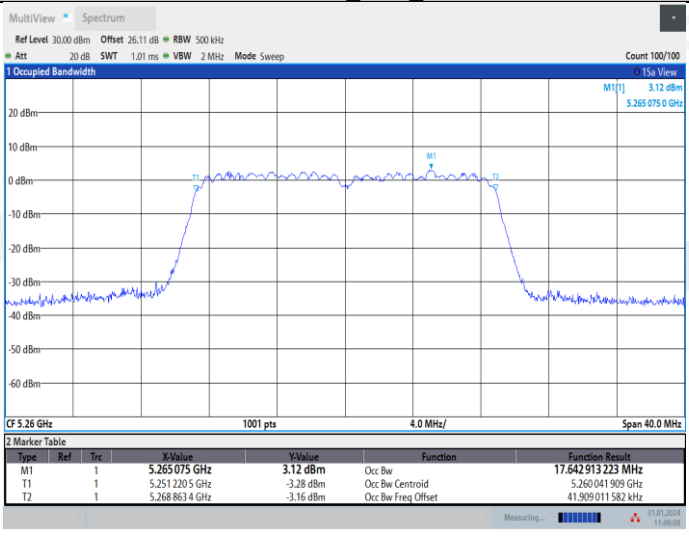

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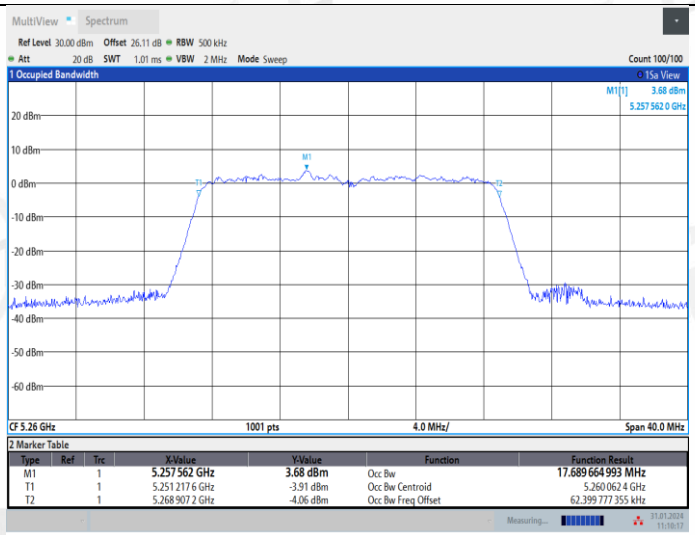

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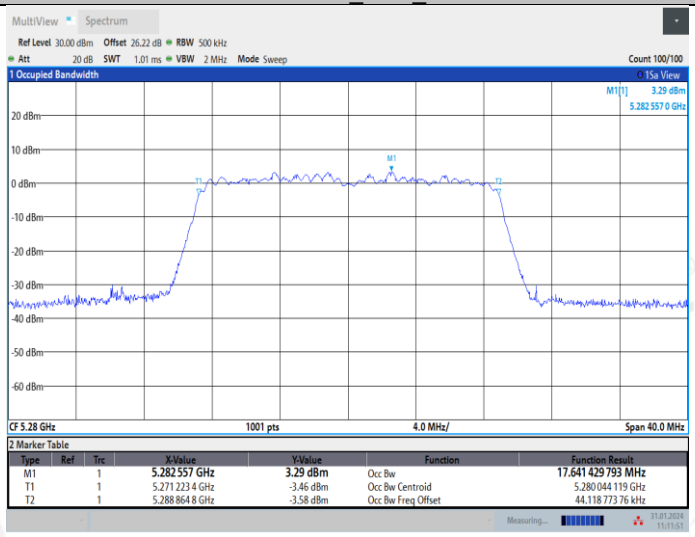

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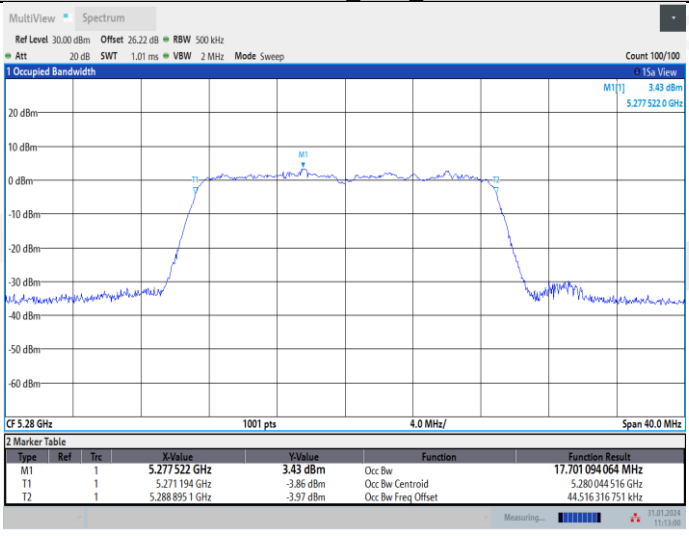

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