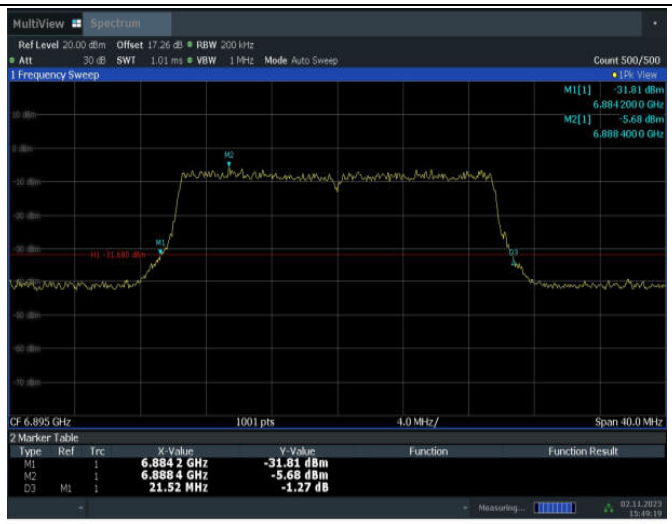

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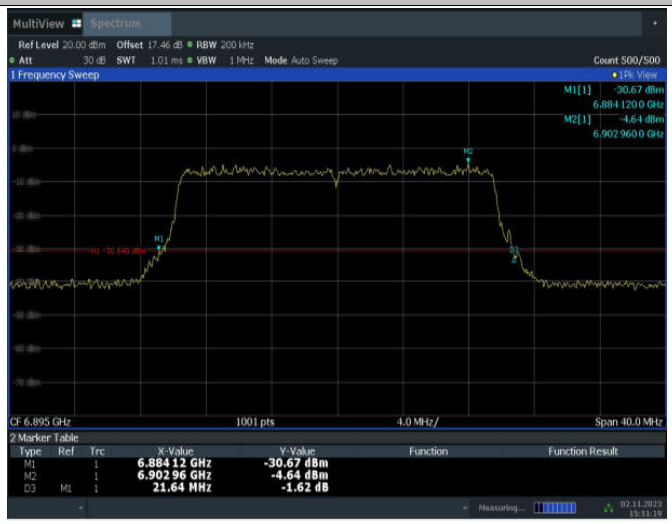

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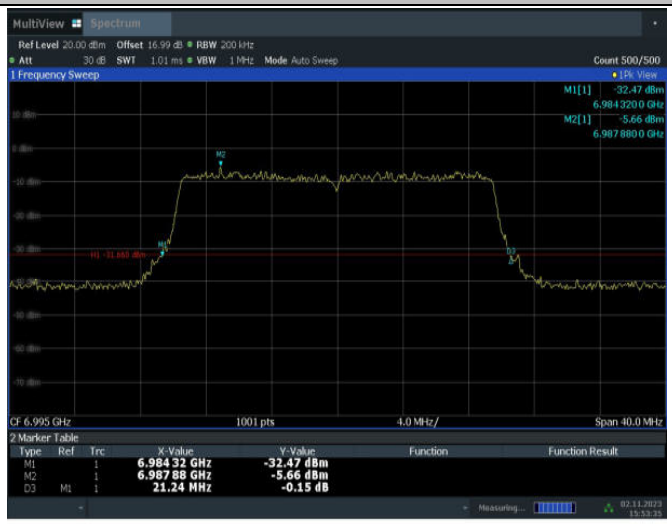

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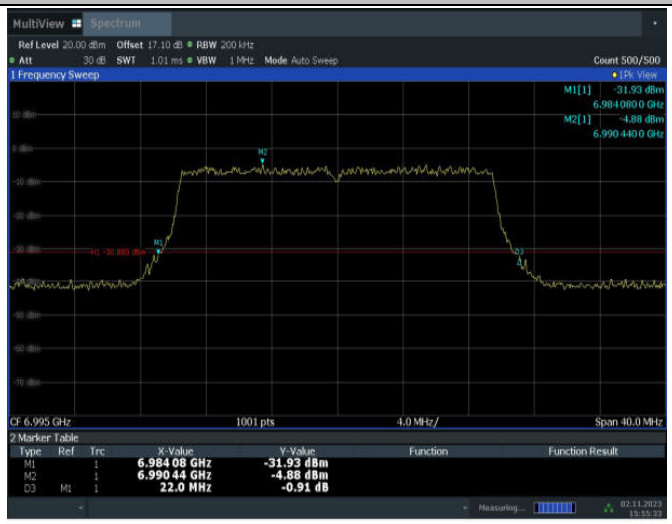

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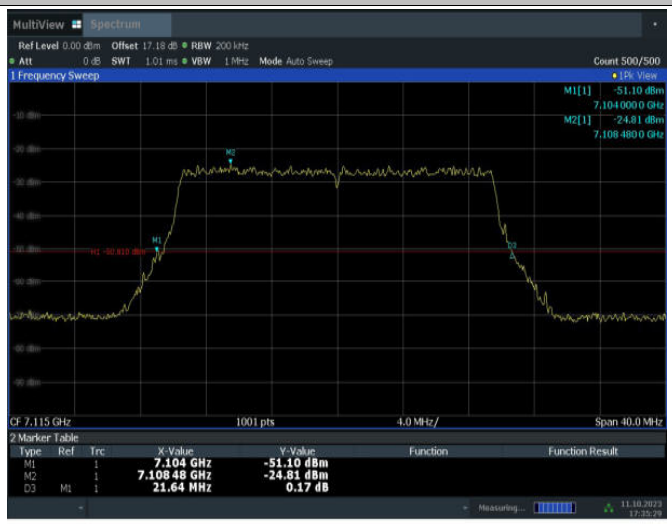

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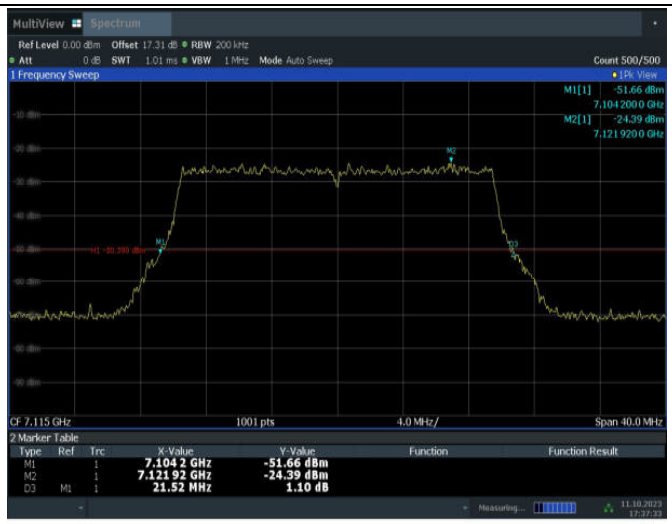

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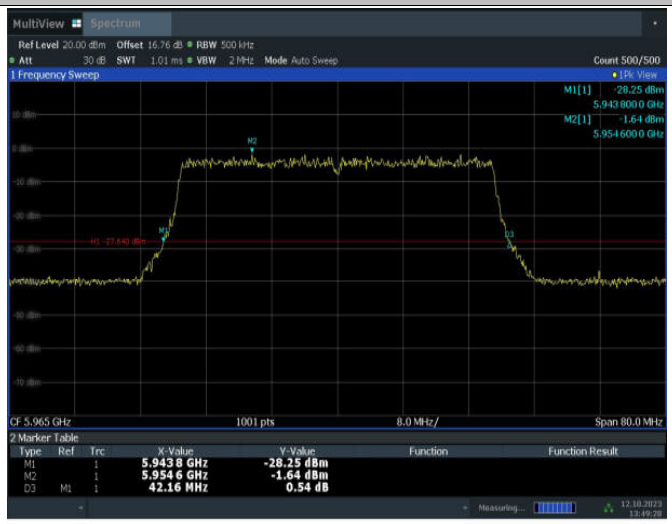

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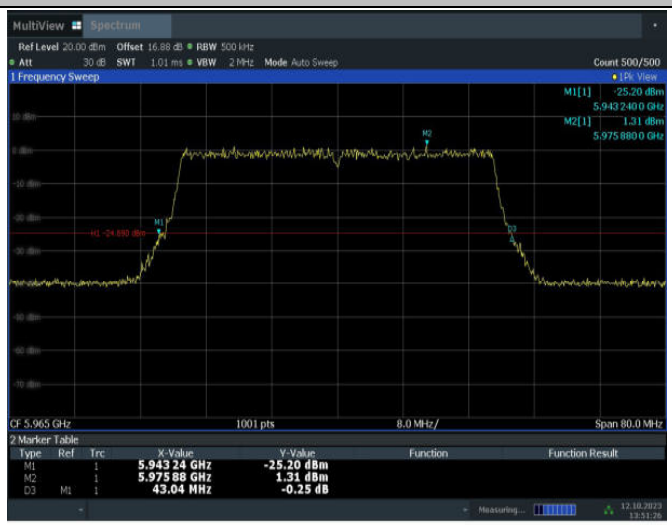

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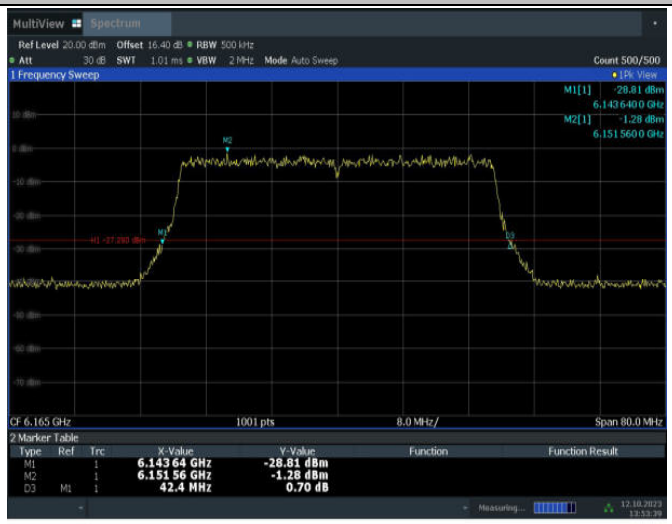

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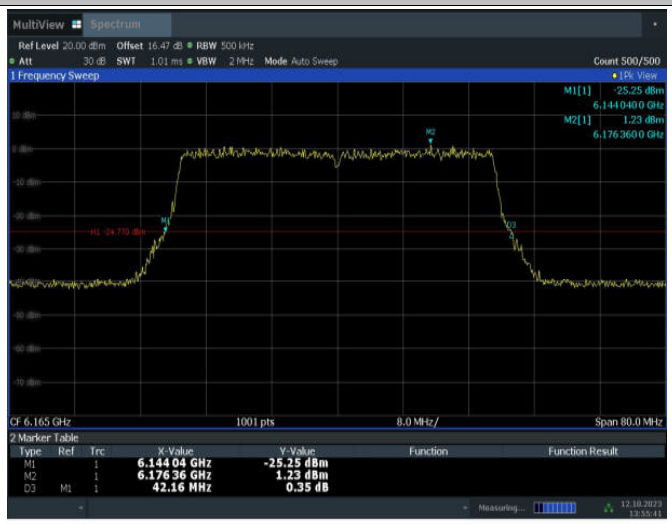

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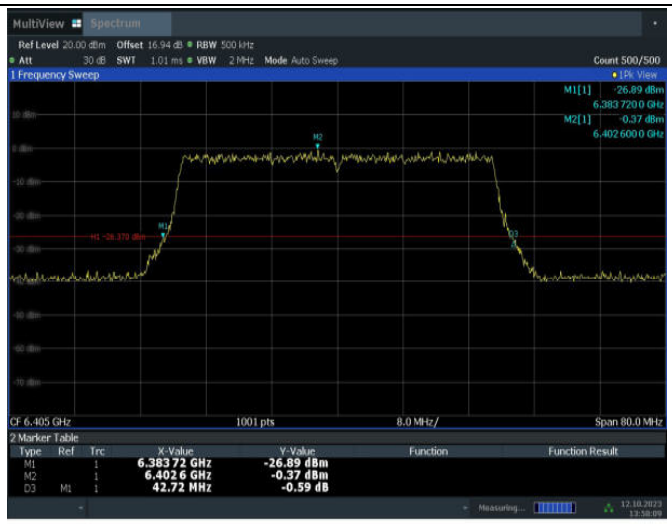

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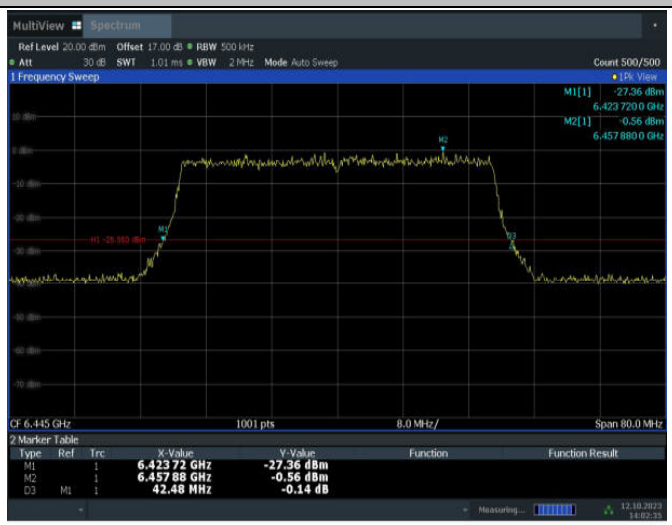

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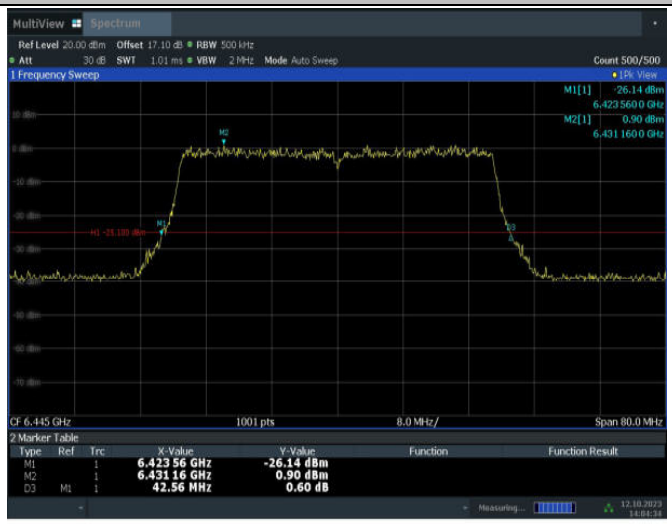

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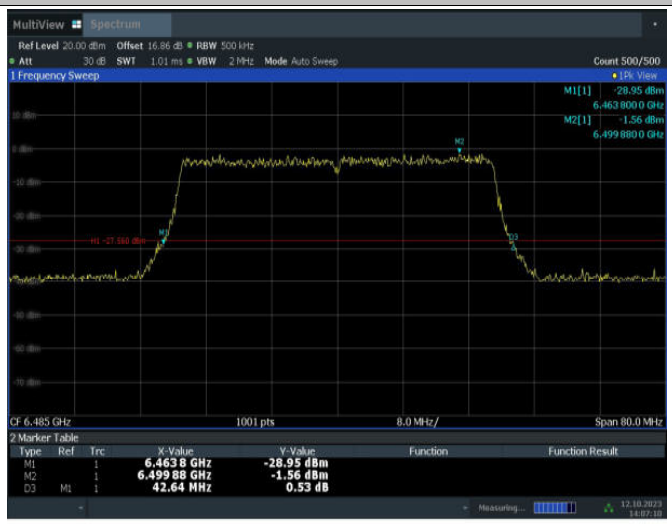

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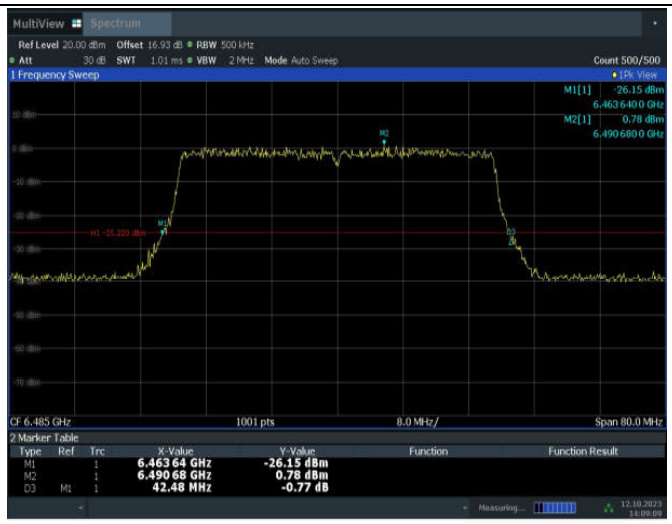

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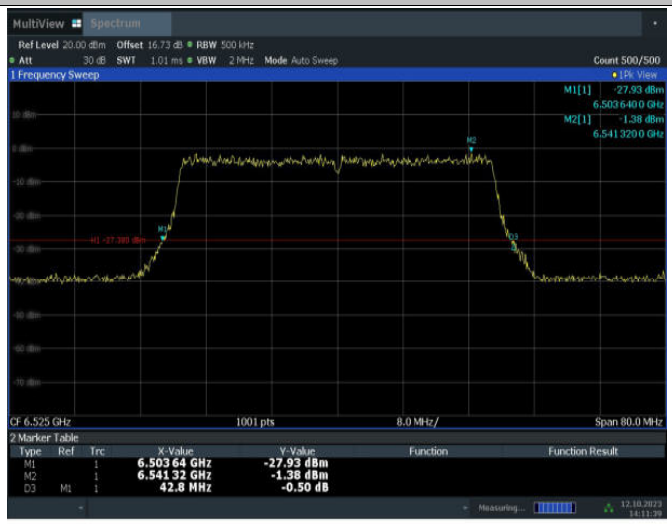

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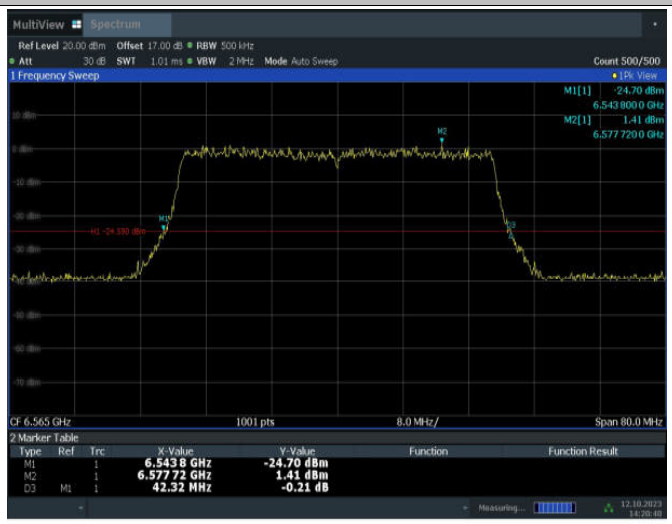

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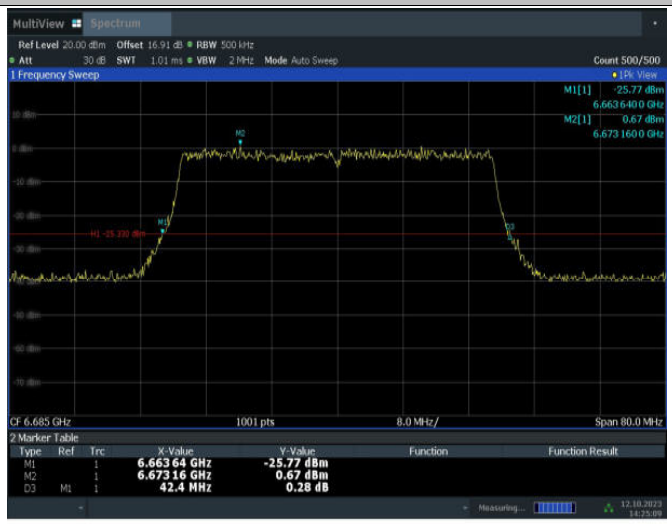

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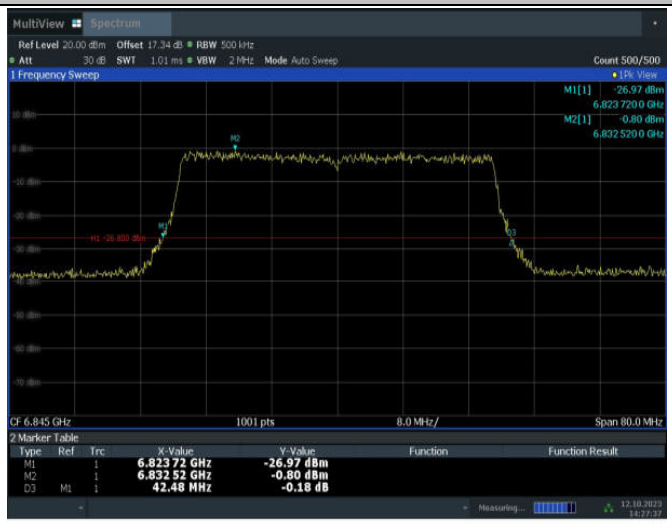

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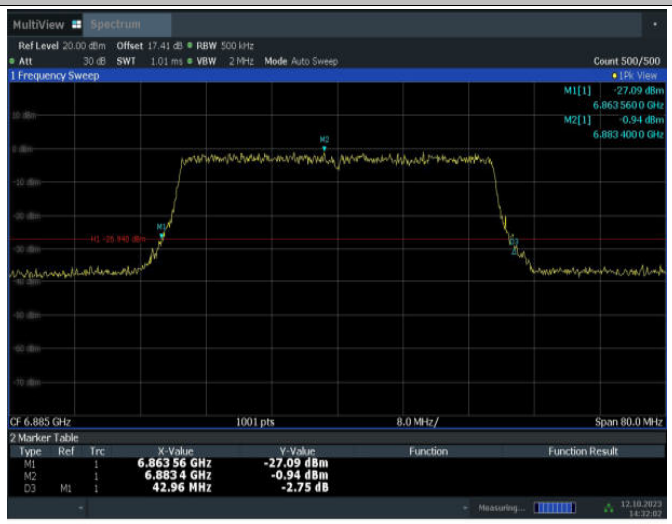

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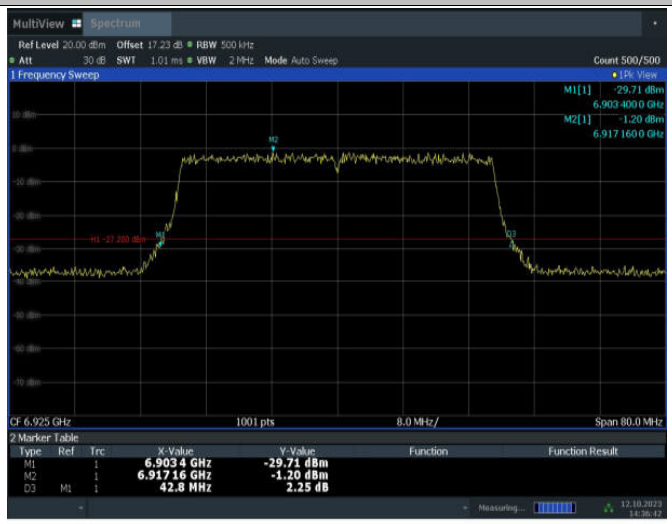

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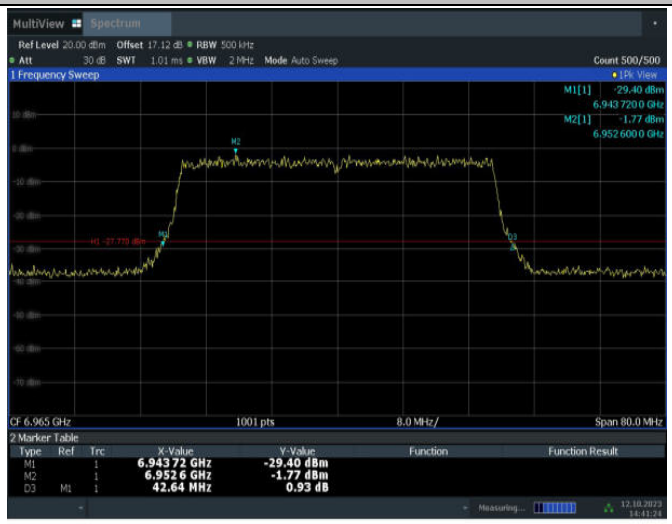

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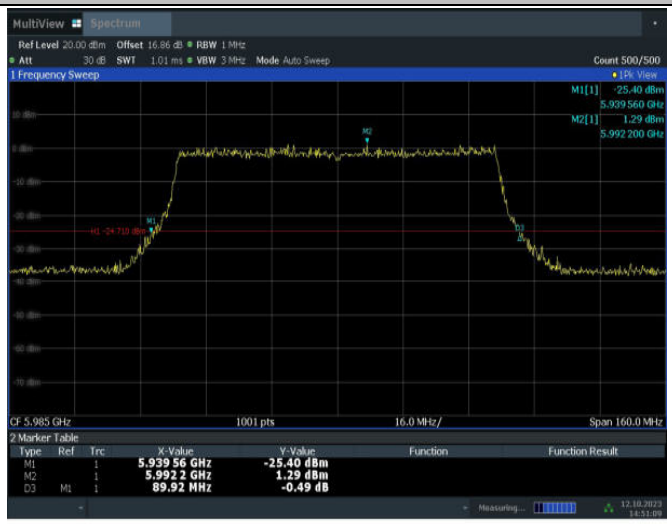

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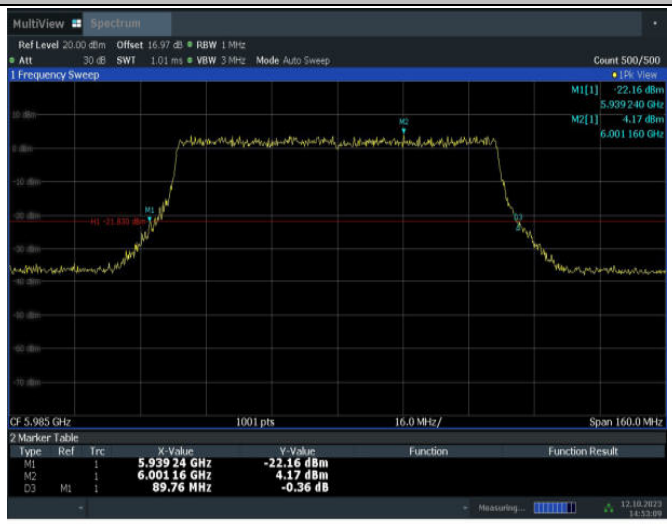
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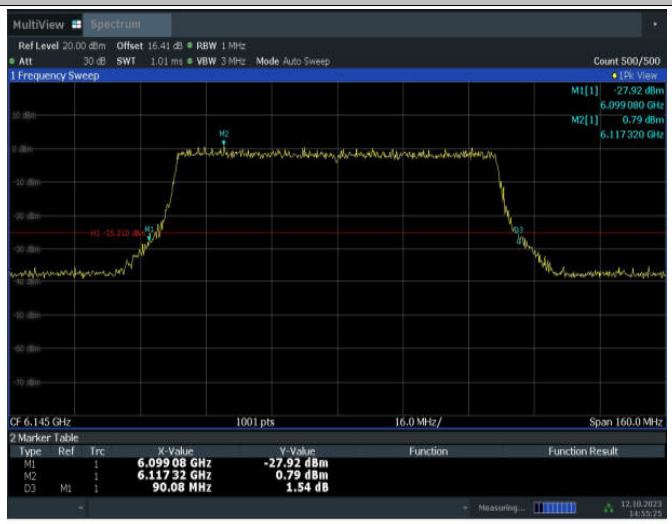
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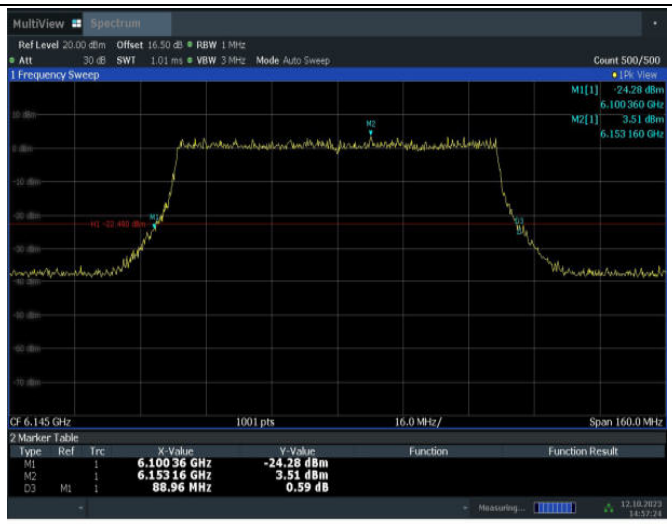

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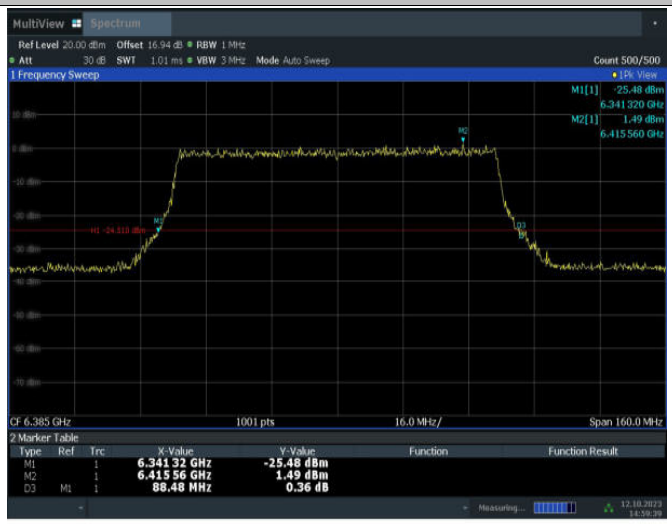

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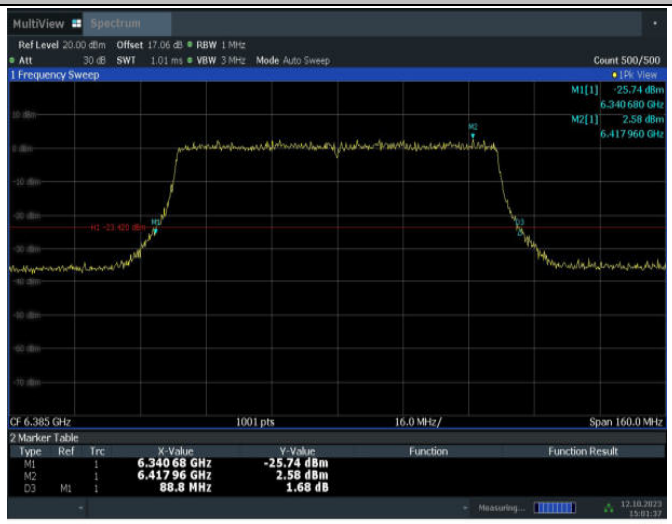

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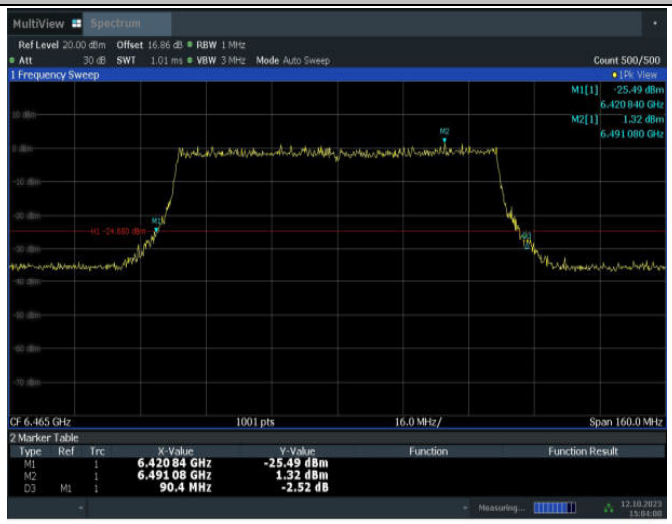

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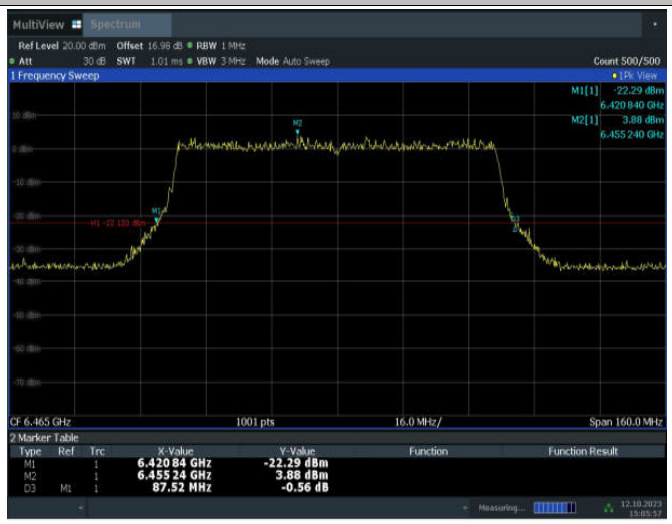

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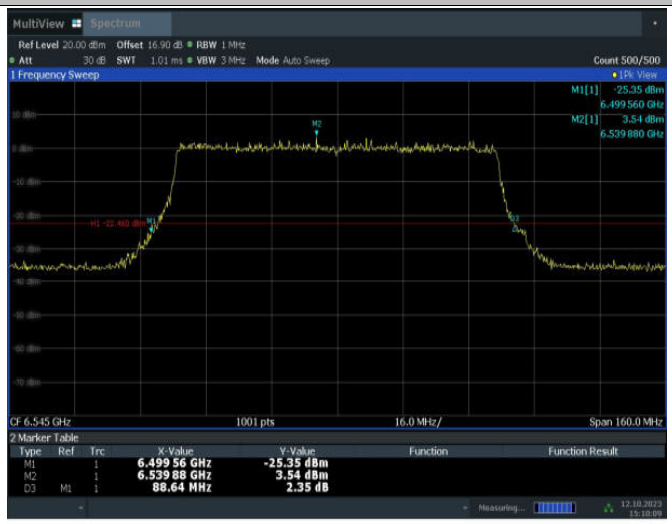

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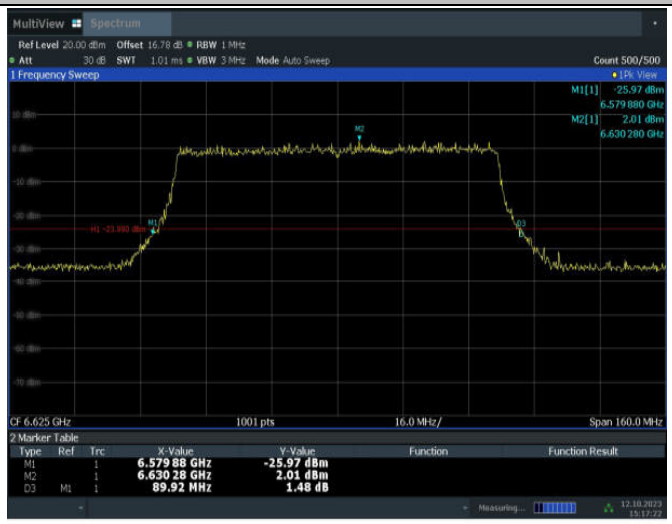

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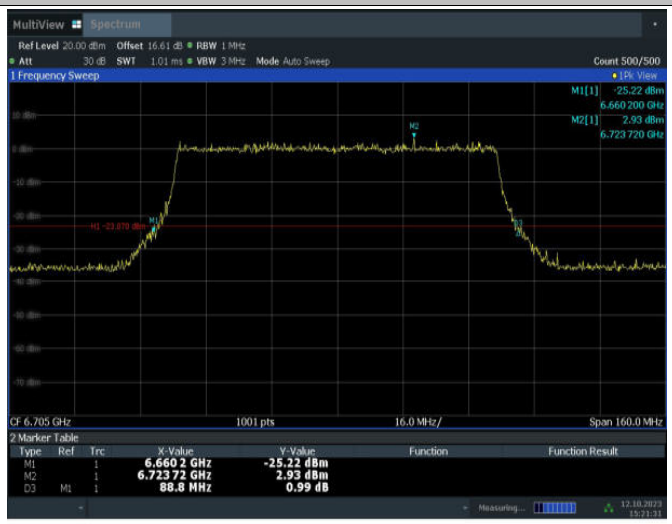

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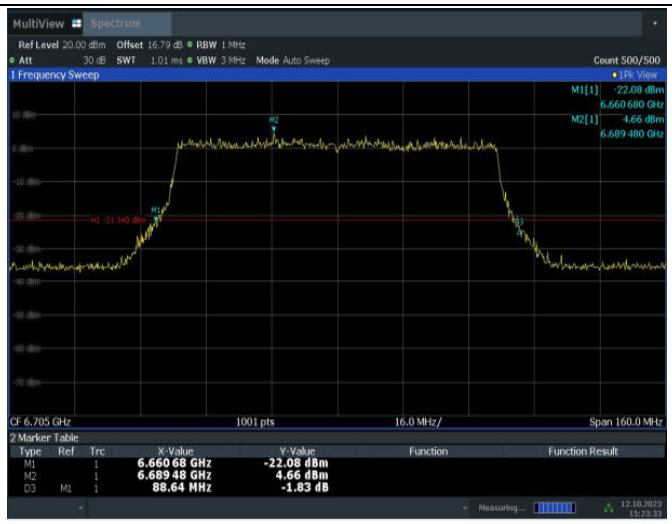

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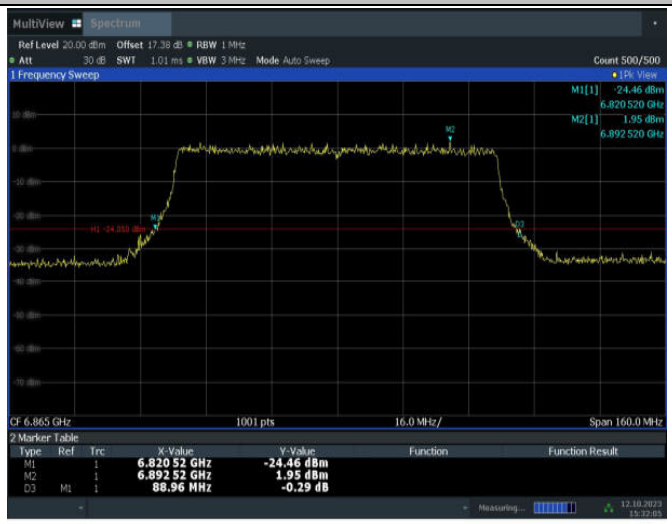

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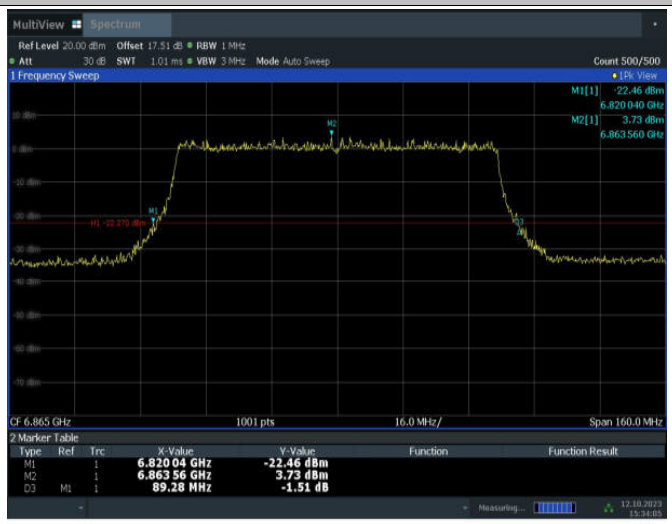

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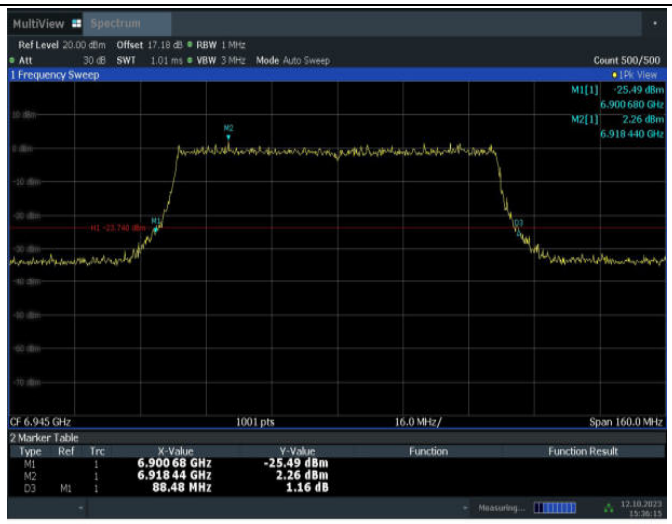

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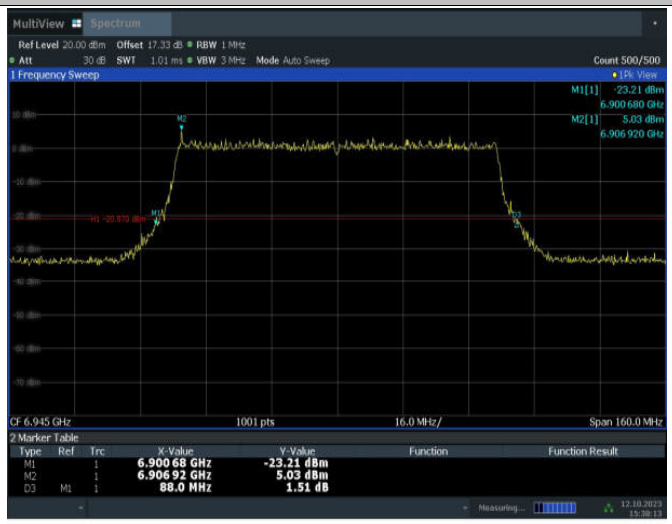

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11BE320MIMO_Ant9_6105

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11BE320MIMO_Ant15_6105

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11BE320MIMO_Ant9_6905

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16:18:08 12.10.2023

11BE320MIMO_Ant15_6905

16:20:10 12.10.2023

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A.5. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% ofthe total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Limit:

According to FCC guidance, the 26 dB bandwidth has been applied for all channels below 320MHz. For 320MHz, the 99% bandwidth has been used.

47CFR 15.407(a)(10) The maximum transmitter channel bandwidth for U–NII devices in the 5.925–7.125 GHz band is 320 megahertz.

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A-MIMO	Ant9	5955	17.112	5946.3748	5963.4873	PASS
	Ant15	5955	16.897	5946.5108	5963.4080	PASS
	Ant9	6175	17.127	6166.3389	6183.4662	PASS
	Ant15	6175	16.917	6166.4913	6183.4088	PASS
	Ant9	6415	17.114	6406.3359	6423.4502	PASS
	Ant15	6415	16.928	6406.4776	6423.4055	PASS
	Ant9	6435	17.143	6426.3361	6443.4794	PASS
	Ant15	6435	16.958	6426.4482	6443.4064	PASS
	Ant9	6475	17.161	6466.3191	6483.4799	PASS
	Ant15	6475	16.947	6466.4528	6483.4000	PASS
	Ant9	6515	17.157	6506.3150	6523.4719	PASS

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	Ant15	6515	16.945	6506.4575	6523.4028	PASS
	Ant9	6535	17.146	6526.3298	6543.4754	PASS
	Ant15	6535	16.923	6526.4645	6543.3875	PASS
	Ant9	6695	17.123	6686.3219	6703.4444	PASS
	Ant15	6695	16.894	6686.4863	6703.3800	PASS
	Ant9	6855	17.146	6846.2937	6863.4397	PASS
	Ant15	6855	16.916	6846.4757	6863.3920	PASS
	Ant9	6875	17.136	6866.3124	6883.4480	PASS
	Ant15	6875	16.882	6866.5042	6883.3865	PASS
	Ant9	6895	17.157	6886.2888	6903.4455	PASS
	Ant15	6895	16.923	6886.4724	6903.3955	PASS
	Ant9	6995	17.173	6986.2865	7003.4600	PASS
	Ant15	6995	16.932	6986.4731	7003.4048	PASS
	Ant9	7115	17.066	7106.3261	7123.3924	PASS
	Ant15	7115	16.842	7106.5176	7123.3592	PASS
11AX160MIMO Full RU	Ant9	6025	159.113	5945.8179	6104.9313	PASS
	Ant15	6025	159.127	5945.5147	6104.6414	PASS
	Ant9	6185	159.36	6105.0095	6264.3699	PASS
	Ant15	6185	158.915	6105.5058	6264.4212	PASS
	Ant9	6345	159.128	6265.8926	6425.0210	PASS
	Ant15	6345	159.478	6265.3727	6424.8505	PASS
	Ant9	6505	158.943	6425.7855	6584.7285	PASS
	Ant15	6505	158.977	6425.3743	6584.3517	PASS
	Ant9	6665	158.877	6585.7498	6744.6267	PASS
	Ant15	6665	159.178	6585.2508	6744.4290	PASS
	Ant9	6825	159.957	6744.5644	6904.5218	PASS
	Ant15	6825	159.316	6744.9658	6904.2815	PASS
	Ant9	6985	159.349	6905.1917	7064.5405	PASS
	Ant15	6985	159.33	6905.3246	7064.6549	PASS
11BE20MIMO Full RU	Ant9	5955	19.208	5945.3668	5964.5746	PASS
	Ant15	5955	19.215	5945.3730	5964.5884	PASS
	Ant9	6175	19.262	6165.3356	6184.5978	PASS
	Ant15	6175	19.242	6165.3452	6184.5872	PASS
	Ant9	6415	19.196	6405.3596	6424.5556	PASS
	Ant15	6415	19.232	6405.3617	6424.5934	PASS
	Ant9	6435	19.244	6425.3713	6444.6157	PASS
	Ant15	6435	19.265	6425.3303	6444.5951	PASS
	Ant9	6475	19.222	6465.3712	6484.5937	PASS
	Ant15	6475	19.237	6465.3359	6484.5731	PASS
	Ant9	6515	19.214	6505.3550	6524.5693	PASS
	Ant15	6515	19.222	6505.3444	6524.5659	PASS
	Ant9	6535	19.2	6525.3702	6544.5699	PASS

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	Ant15	6535	19.269	6525.3021	6544.5715	PASS
	Ant9	6695	19.213	6685.3544	6704.5672	PASS
	Ant15	6695	19.205	6685.3569	6704.5618	PASS
	Ant9	6855	19.235	6845.3372	6864.5720	PASS
	Ant15	6855	19.204	6845.3650	6864.5694	PASS
	Ant9	6875	19.201	6865.3580	6884.5595	PASS
	Ant15	6875	19.153	6865.3938	6884.5463	PASS
	Ant9	6895	19.223	6885.3398	6904.5626	PASS
	Ant15	6895	19.212	6885.3621	6904.5741	PASS
	Ant9	6995	19.239	6985.3357	7004.5752	PASS
	Ant15	6995	19.176	6985.3808	7004.5570	PASS
	Ant9	7115	19.179	7105.3785	7124.5578	PASS
	Ant15	7115	19.216	7105.3523	7124.5683	PASS
11BE40MIMO Full RU	Ant9	5965	38.28	5945.8263	5984.1062	PASS
	Ant15	5965	38.309	5945.8000	5984.1091	PASS
	Ant9	6165	38.36	6145.7533	6184.1133	PASS
	Ant15	6165	38.279	6145.7979	6184.0770	PASS
	Ant9	6405	38.296	6385.8186	6424.1150	PASS
	Ant15	6405	38.283	6385.7746	6424.0575	PASS
	Ant9	6445	38.388	6425.7732	6464.1615	PASS
	Ant15	6445	38.307	6425.8021	6464.1094	PASS
	Ant9	6485	38.442	6465.7419	6504.1835	PASS
	Ant15	6485	38.301	6465.7702	6504.0709	PASS
	Ant9	6525	38.376	6505.7684	6544.1446	PASS
	Ant15	6525	38.252	6505.7959	6544.0484	PASS
	Ant9	6565	38.354	6545.7810	6584.1349	PASS
	Ant15	6565	38.308	6545.7814	6584.0889	PASS
	Ant9	6685	38.357	6665.7710	6704.1275	PASS
	Ant15	6685	38.371	6665.7850	6704.1559	PASS
	Ant9	6845	38.321	6825.7051	6864.0264	PASS
	Ant15	6845	38.483	6825.6672	6864.1505	PASS
	Ant9	6885	38.301	6865.7981	6904.0992	PASS
	Ant15	6885	38.443	6865.6970	6904.1400	PASS
	Ant9	6925	38.352	6905.7446	6944.0965	PASS
	Ant15	6925	38.376	6905.7432	6944.1195	PASS
	Ant9	6965	38.282	6945.8207	6984.1024	PASS
	Ant15	6965	38.402	6945.7378	6984.1401	PASS
	Ant9	7085	38.401	7065.7586	7104.1596	PASS
	Ant15	7085	38.442	7065.7218	7104.1640	PASS
11BE80MIMO Full RU	Ant9	5985	78.777	5945.6581	6024.4354	PASS
	Ant15	5985	78.735	5945.6079	6024.3429	PASS
	Ant9	6145	78.641	6105.6055	6184.2465	PASS

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	Ant15	6145	78.607	6105.6060	6184.2132	PASS
	Ant9	6385	78.628	6345.7300	6424.3580	PASS
	Ant15	6385	78.501	6345.6993	6424.2008	PASS
	Ant9	6465	78.862	6425.5333	6504.3949	PASS
	Ant15	6465	78.624	6425.5905	6504.2142	PASS
	Ant9	6545	78.887	6505.5731	6584.4603	PASS
	Ant15	6545	78.599	6505.5294	6584.1283	PASS
	Ant9	6625	78.623	6585.7610	6664.3841	PASS
	Ant15	6625	78.69	6585.4852	6664.1755	PASS
	Ant9	6705	78.631	6665.5938	6744.2251	PASS
	Ant15	6705	78.594	6665.5061	6744.1005	PASS
	Ant9	6785	78.72	6745.3200	6824.0397	PASS
	Ant15	6785	78.855	6745.3411	6824.1958	PASS
	Ant9	6865	78.656	6825.5323	6904.1884	PASS
	Ant15	6865	78.701	6825.4883	6904.1898	PASS
	Ant9	6945	78.705	6905.5482	6984.2533	PASS
	Ant15	6945	78.644	6905.5821	6984.2261	PASS
	Ant9	7025	78.969	6985.3005	7064.2698	PASS
	Ant15	7025	78.688	6985.6419	7064.3297	PASS
11BE320MIMO Full RU	Ant9	6105	317.864	5946.2699	6264.1336	PASS
	Ant15	6105	317.78	5946.2700	6264.0500	PASS
	Ant9	6265	319.522	6105.5092	6425.0315	PASS
	Ant15	6265	318.27	6105.8948	6424.1645	PASS
	Ant9	6425	318.522	6267.0457	6585.5681	PASS
	Ant15	6425	317.022	6266.4399	6583.4621	PASS
	Ant9	6585	317.998	6426.9868	6744.9847	PASS
	Ant15	6585	317.479	6425.6480	6743.1268	PASS
	Ant9	6745	316.85	6586.1858	6903.0356	PASS
	Ant15	6745	317.928	6584.8319	6902.7603	PASS
	Ant9	6905	319.508	6744.4148	7063.9228	PASS
	Ant15	6905	319.47	6744.7637	7064.2332	PASS

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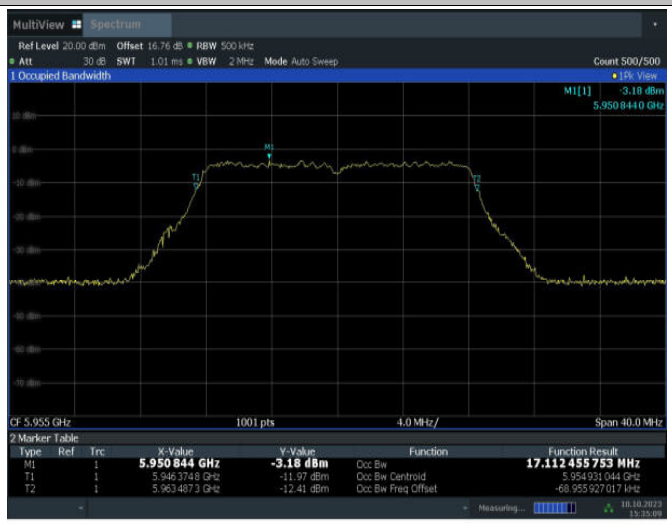

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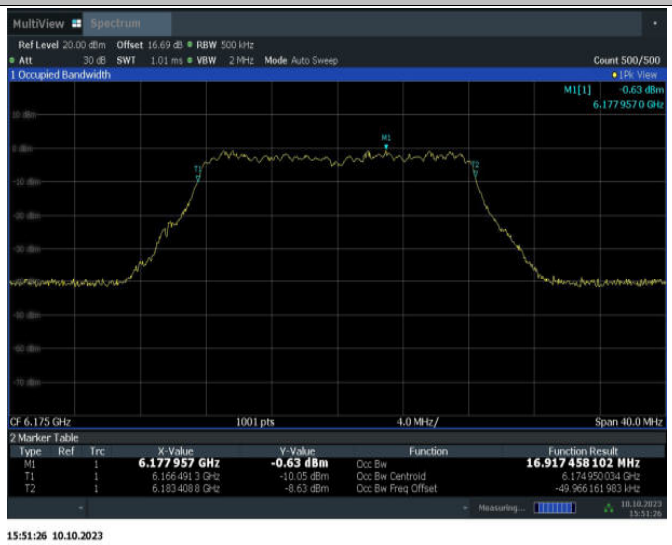

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11A-MIMO_Ant15_6695

11A-MIMO_Ant9_6855

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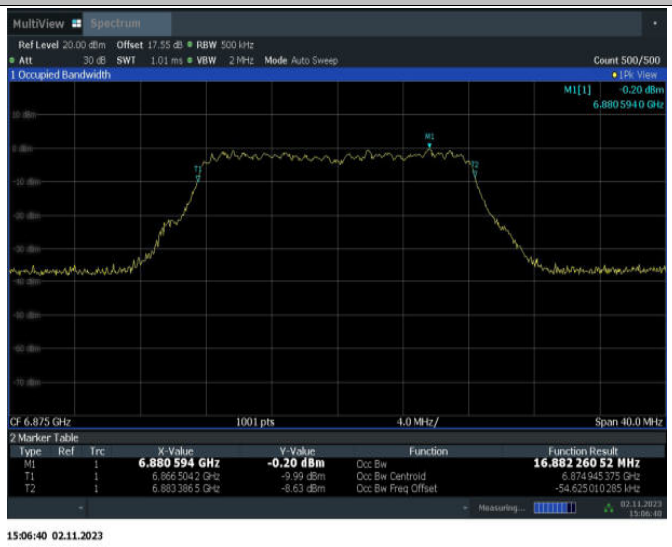

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15:17:13 02.11.2023

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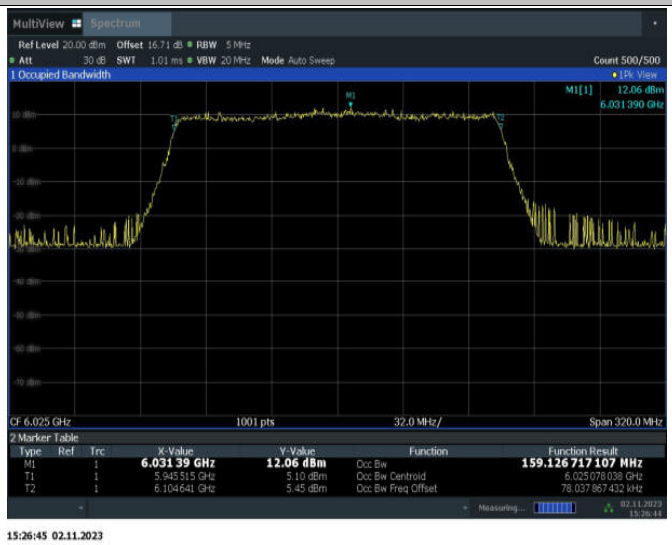

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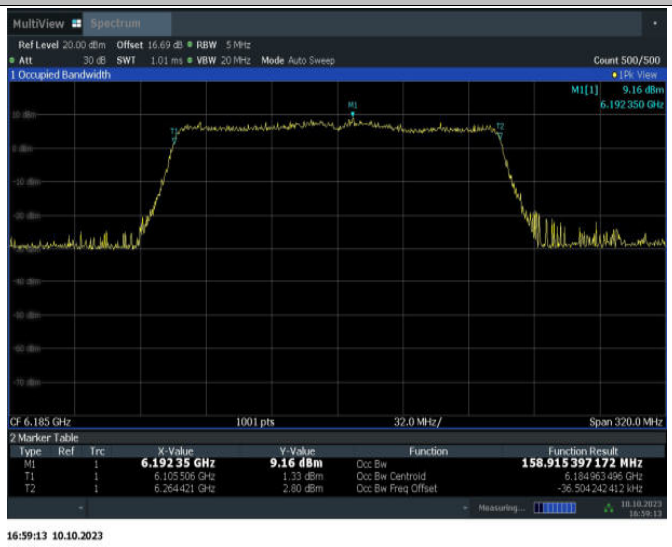

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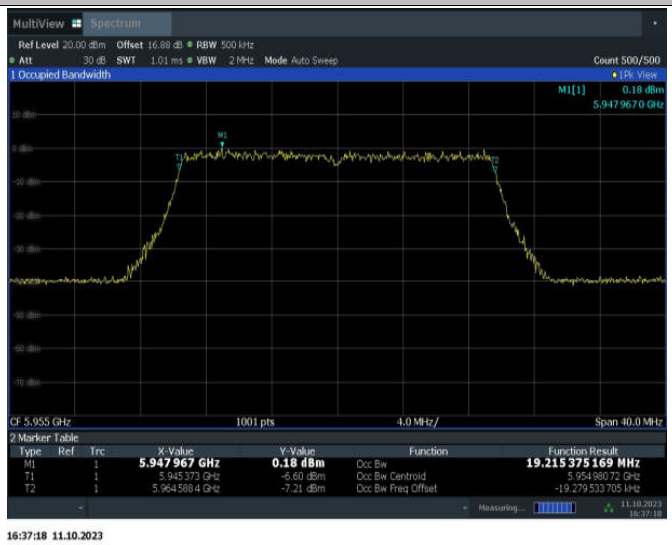

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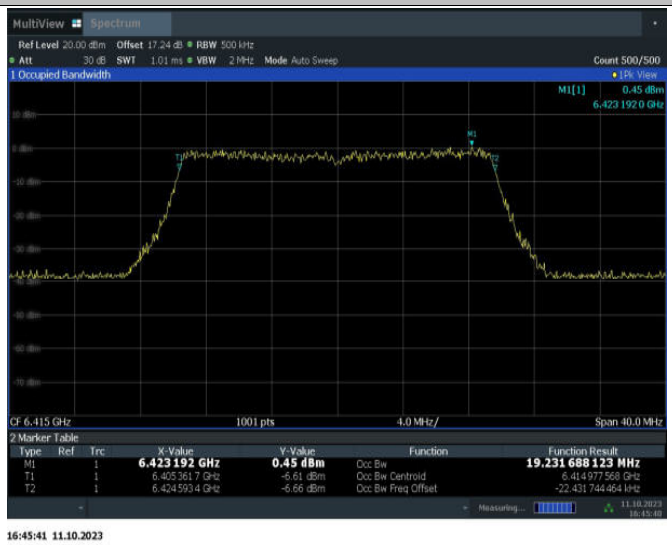

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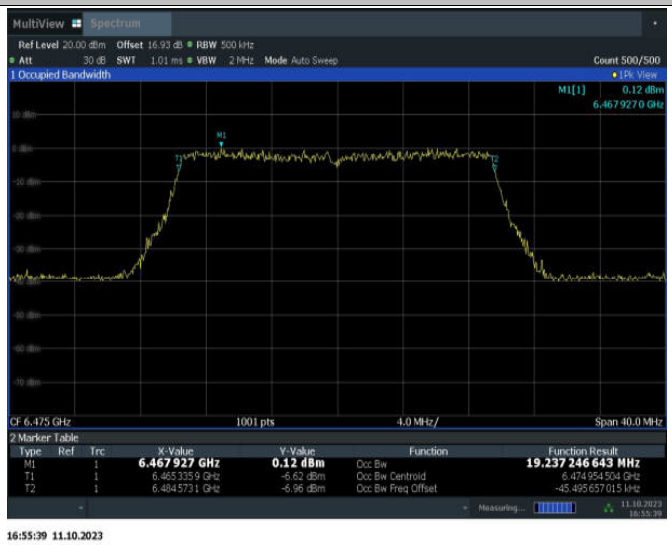

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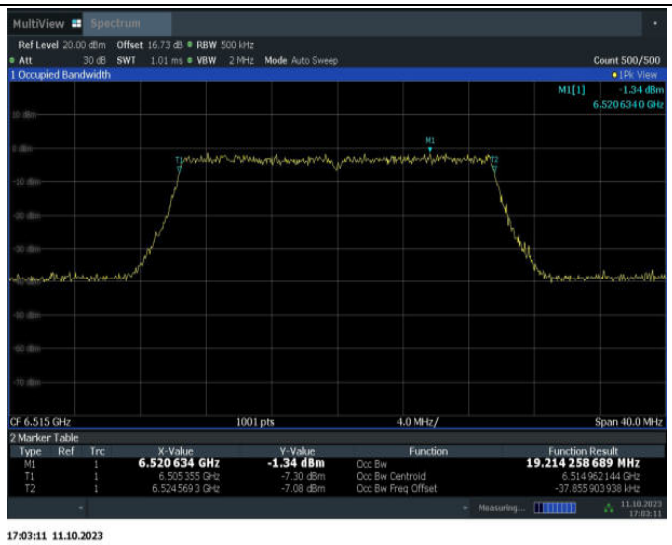

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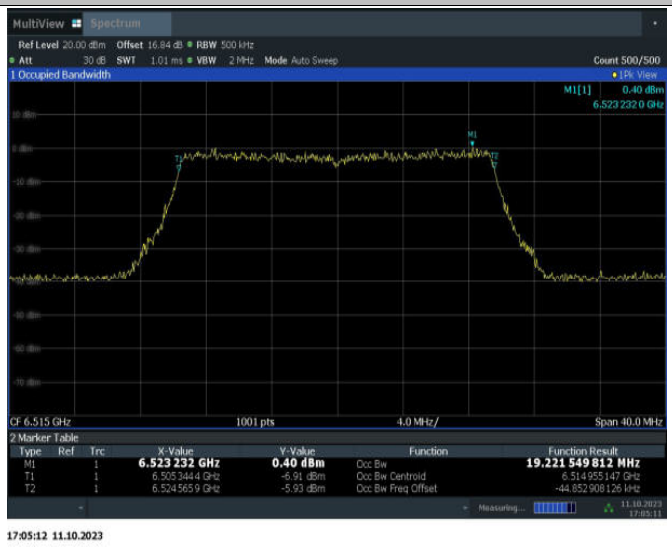

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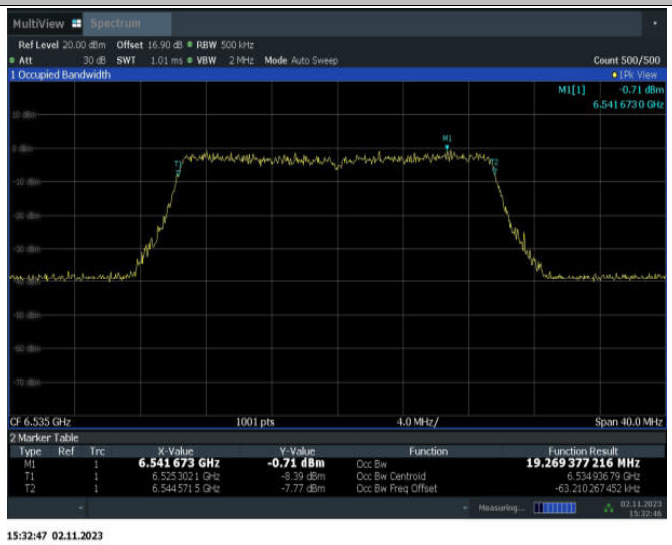

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