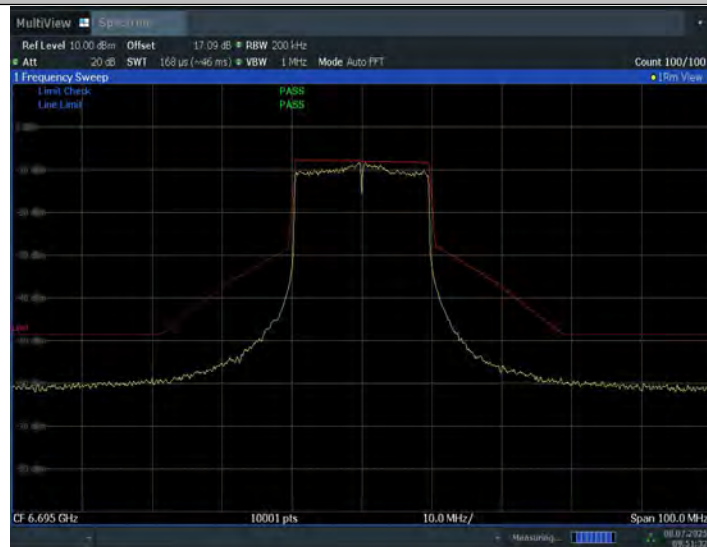
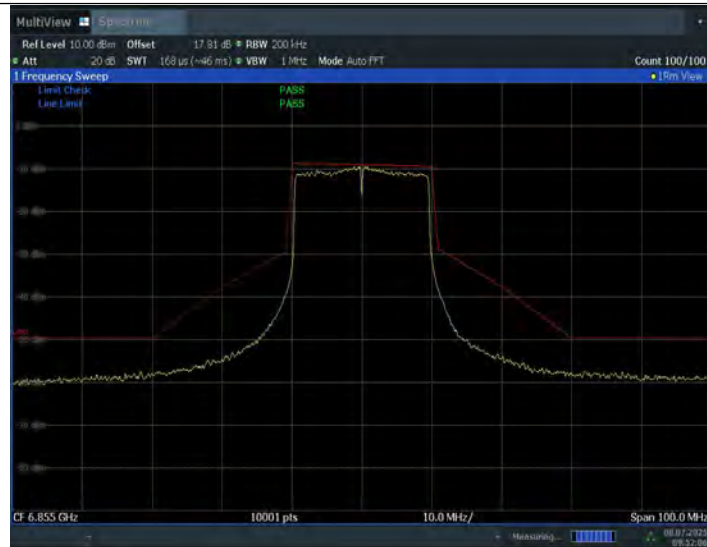


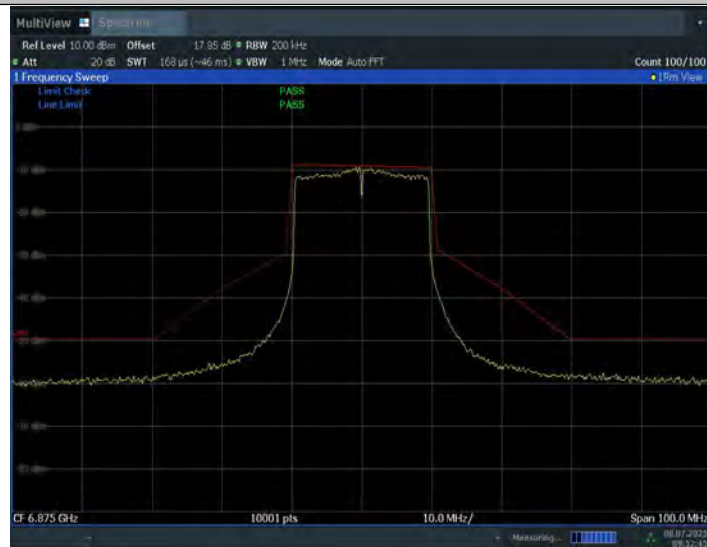
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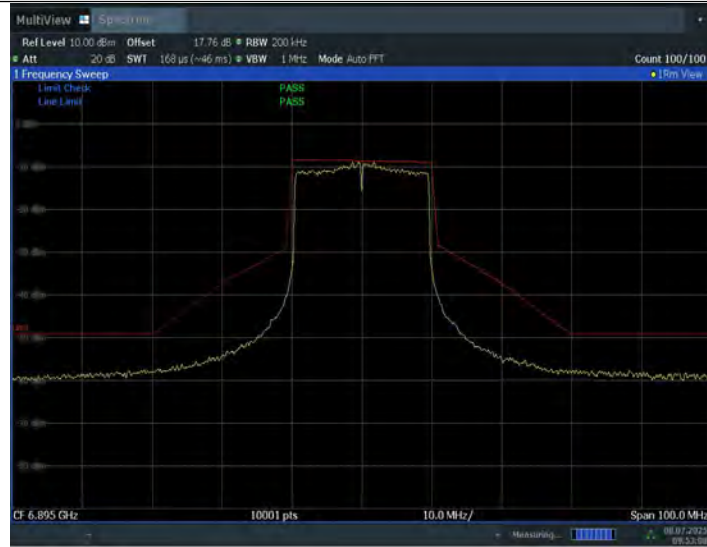
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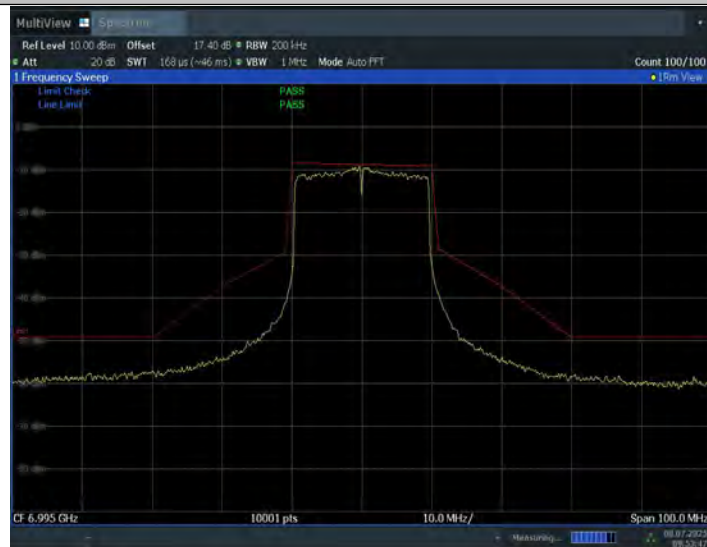
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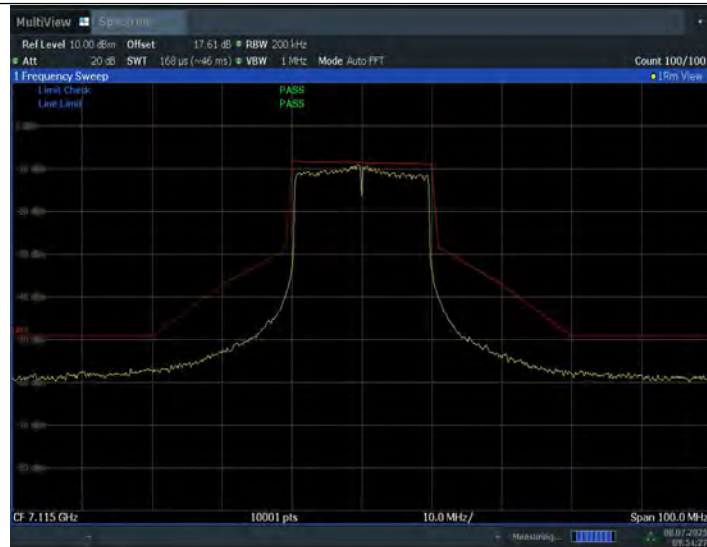
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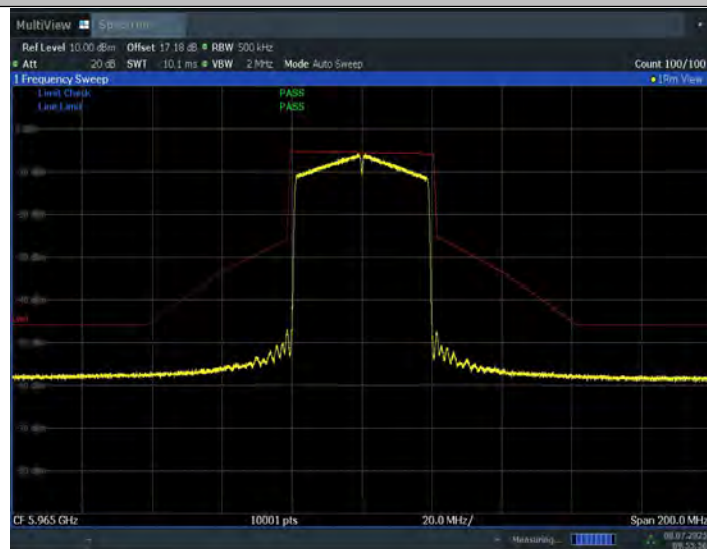
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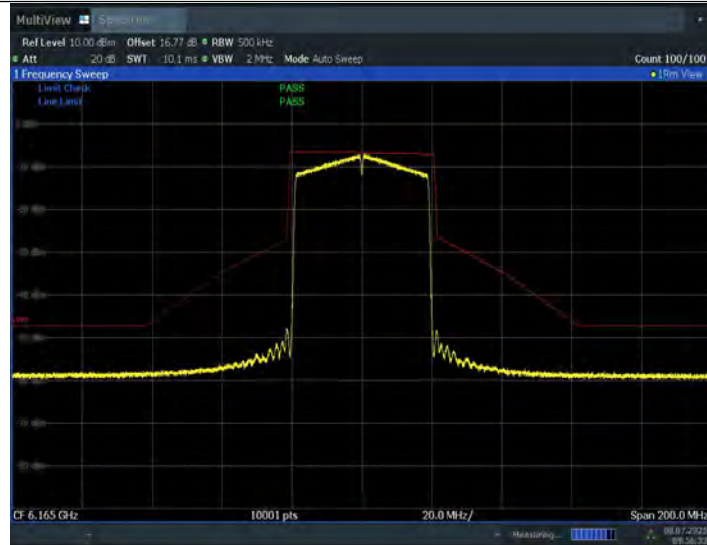
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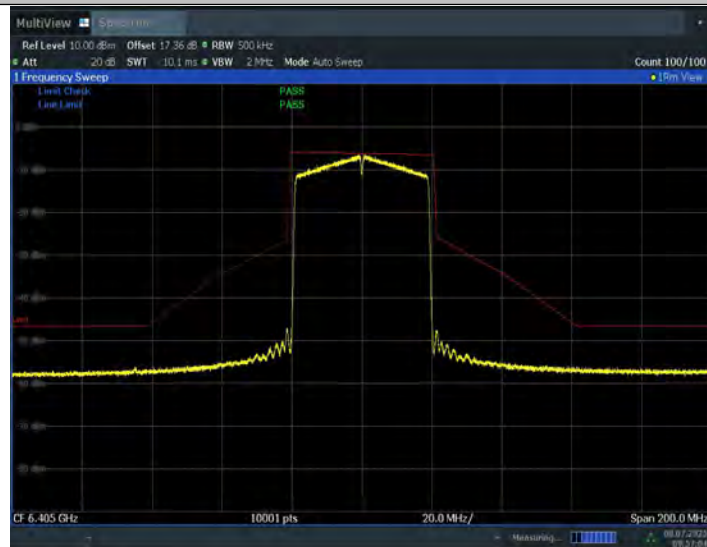
11AX40SISO_Ant1_5965



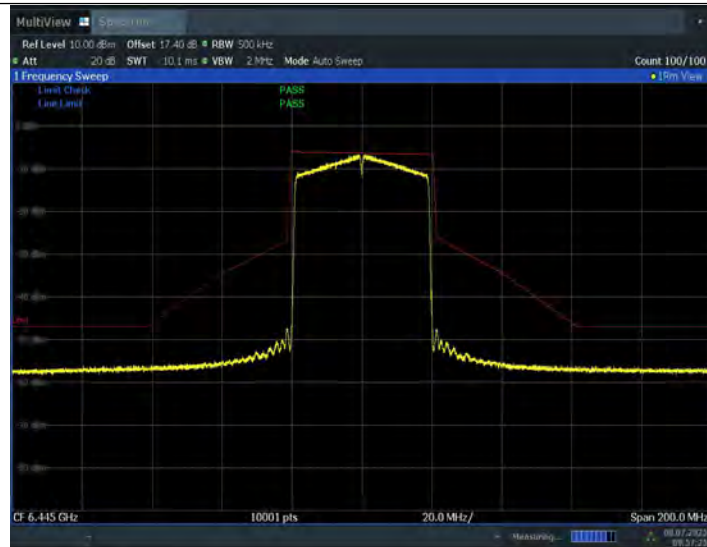
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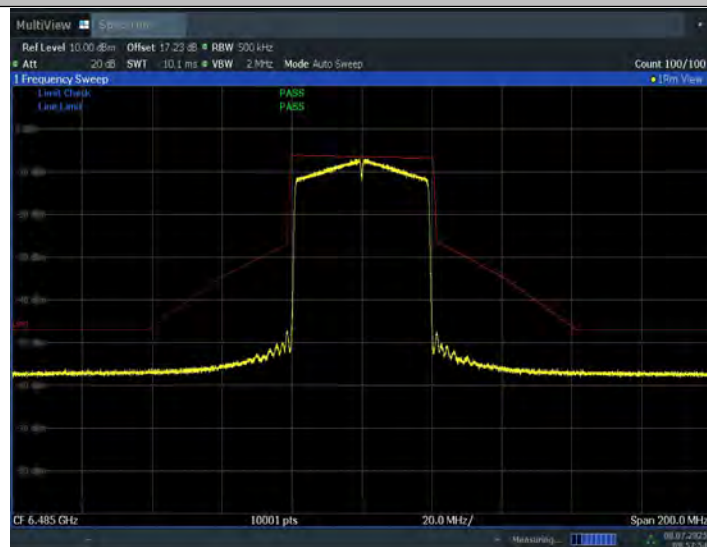


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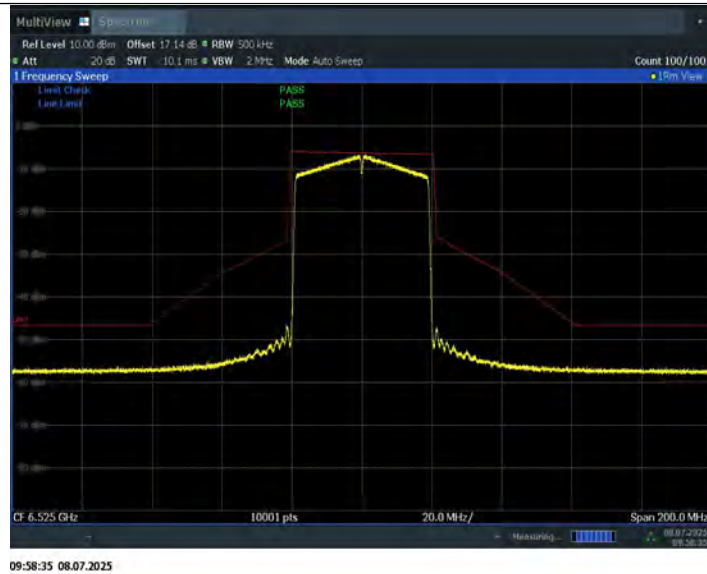
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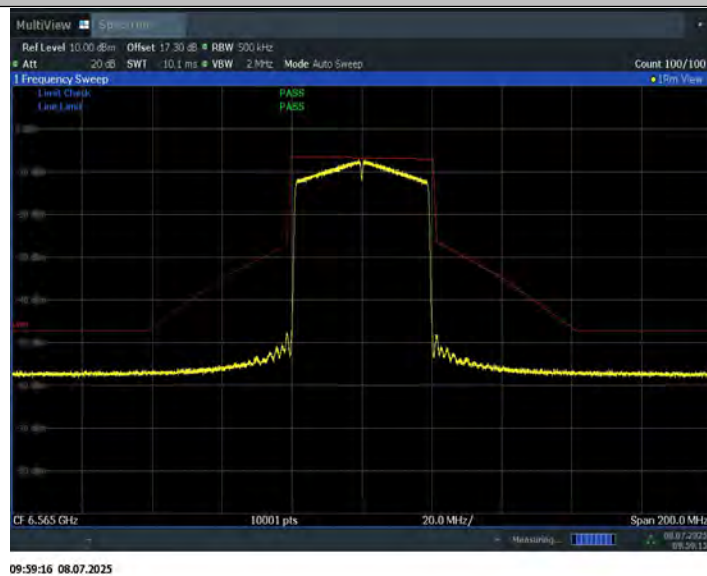


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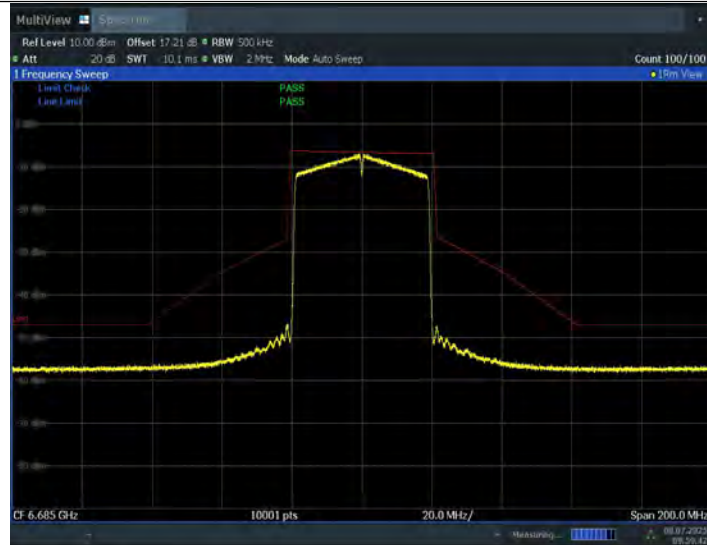
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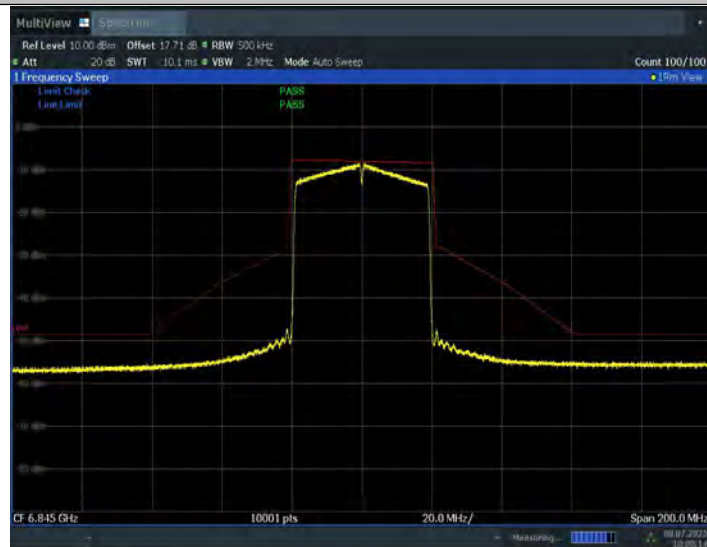
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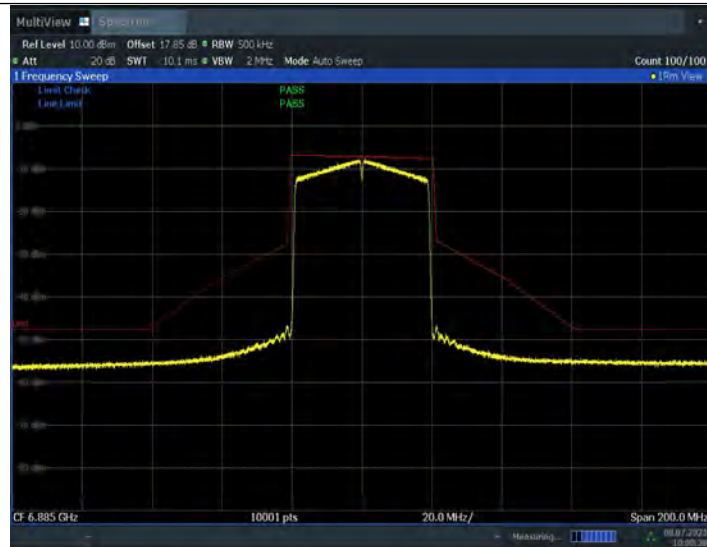
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11AX40SISO_Ant1_6845

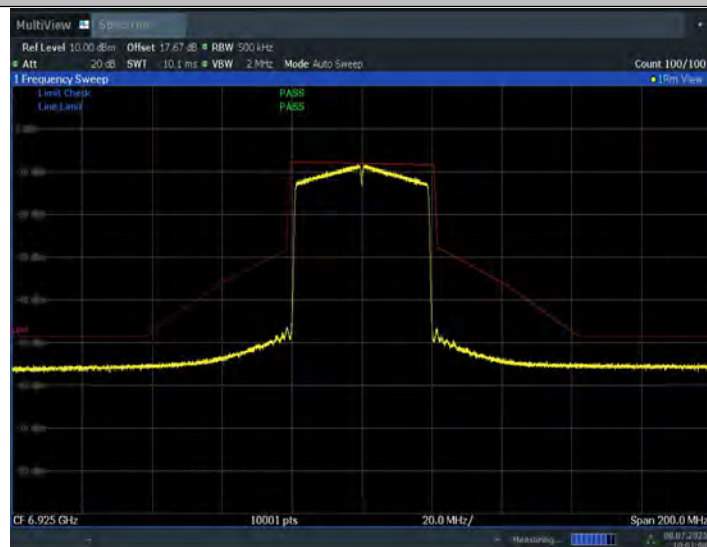


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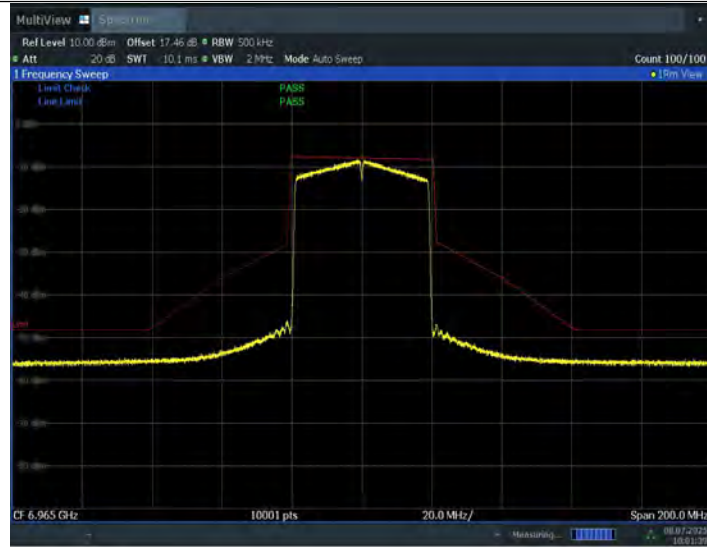
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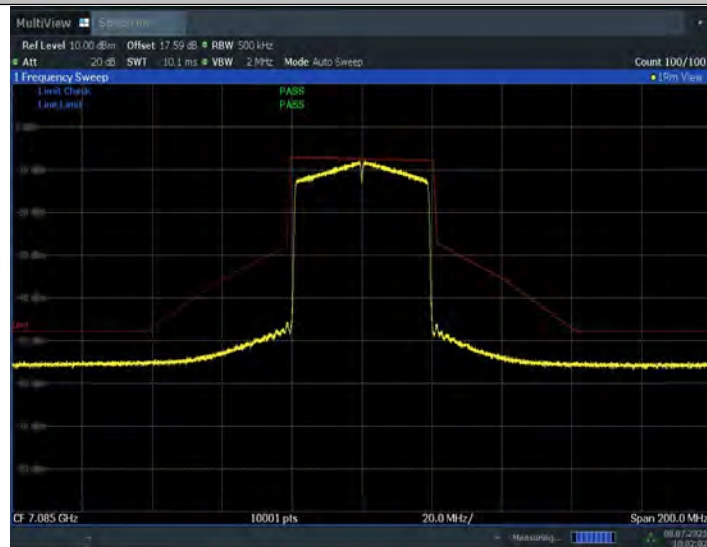
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11AX40SISO_Ant1_6965



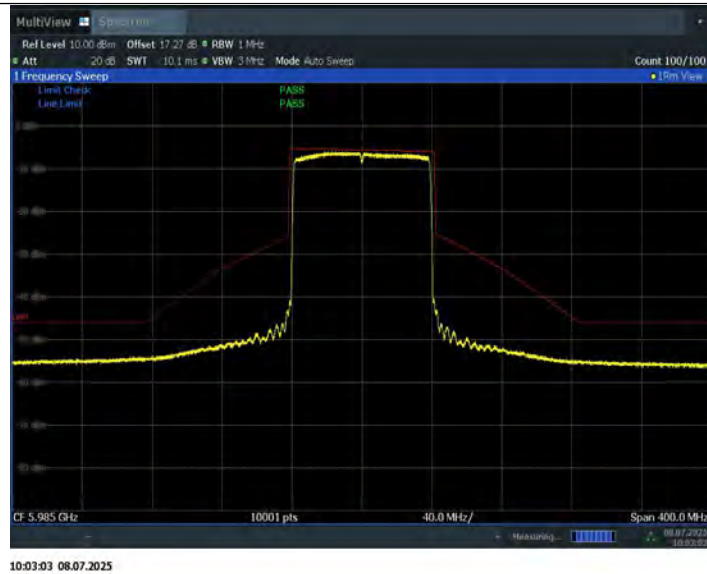
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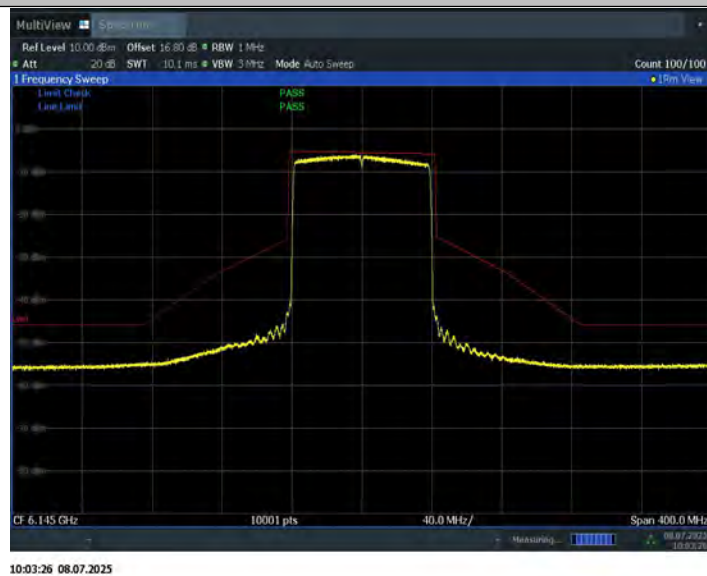


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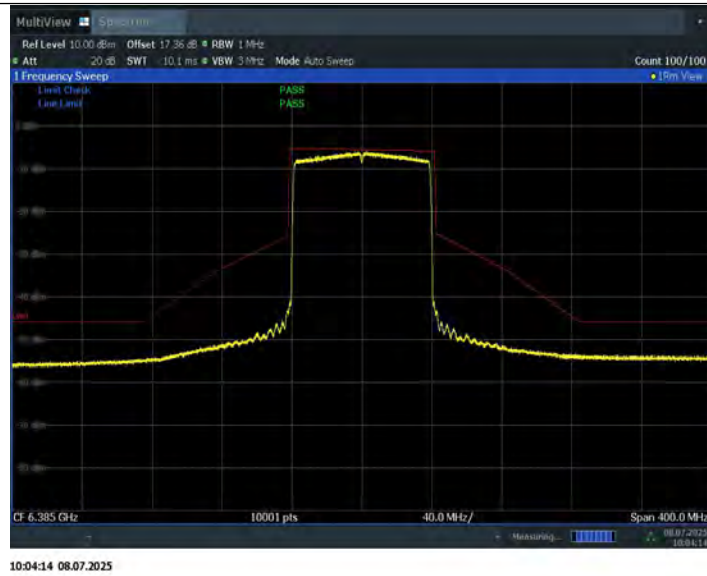
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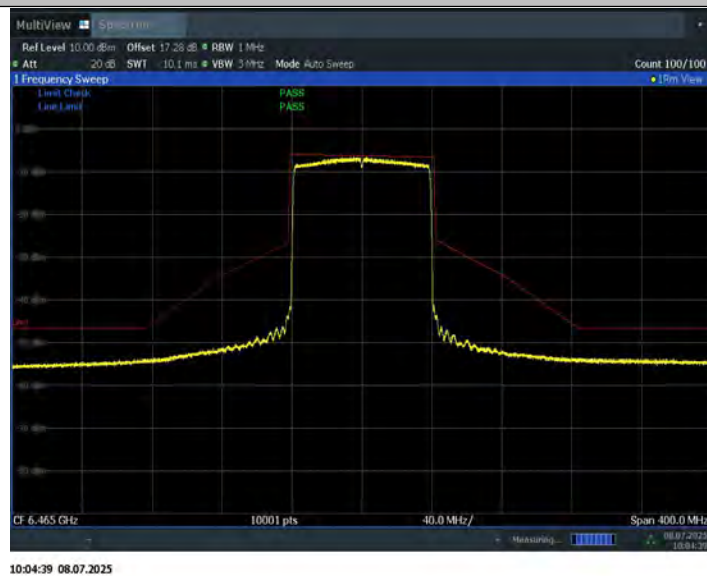
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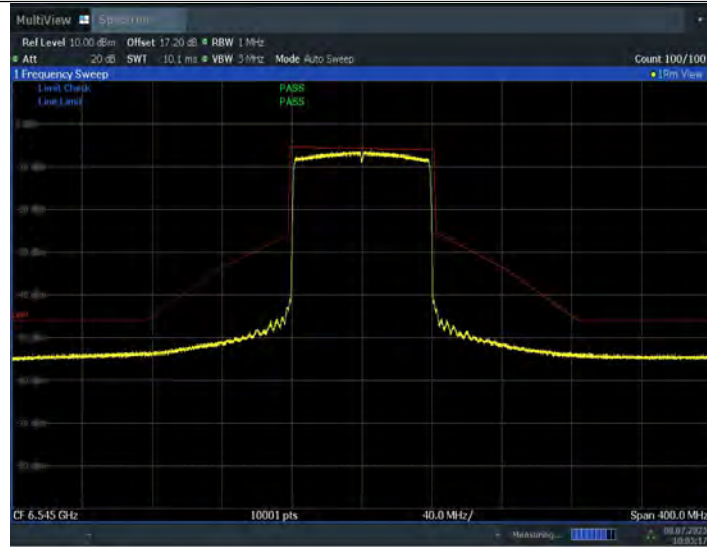
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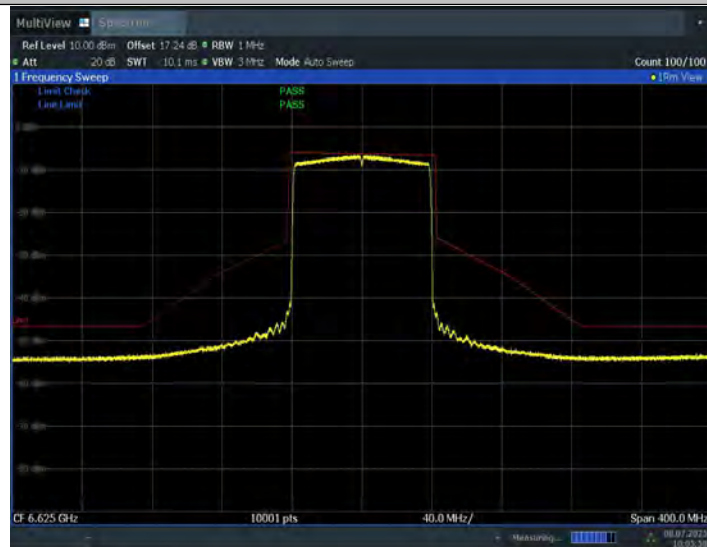


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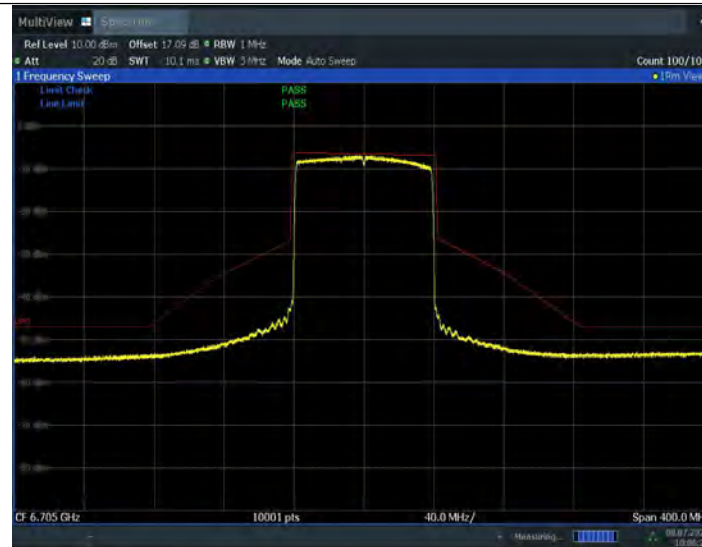
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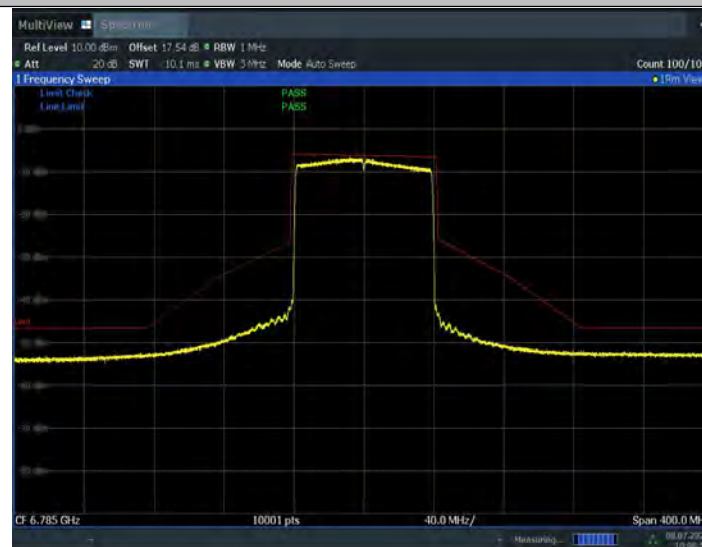
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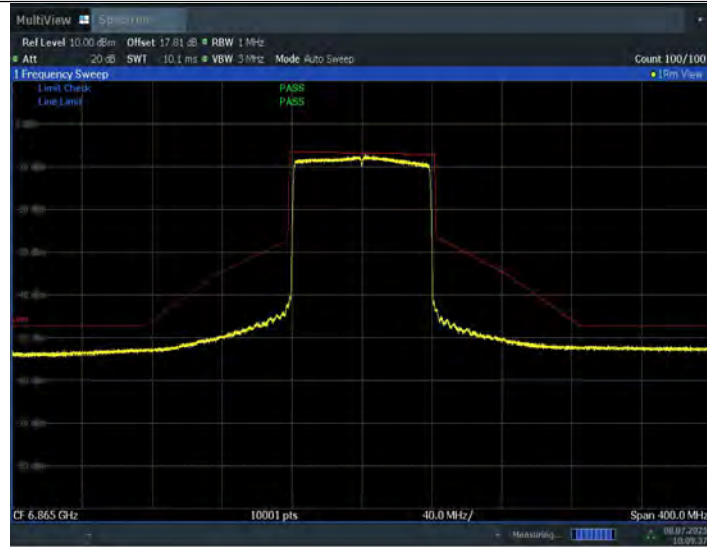
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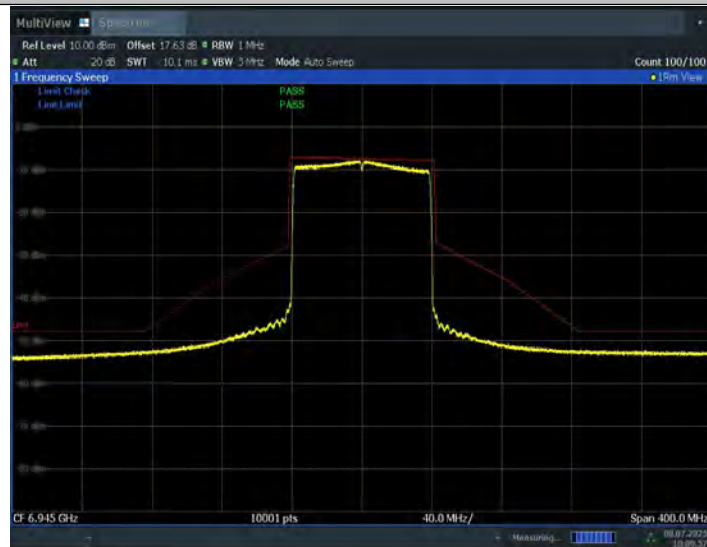
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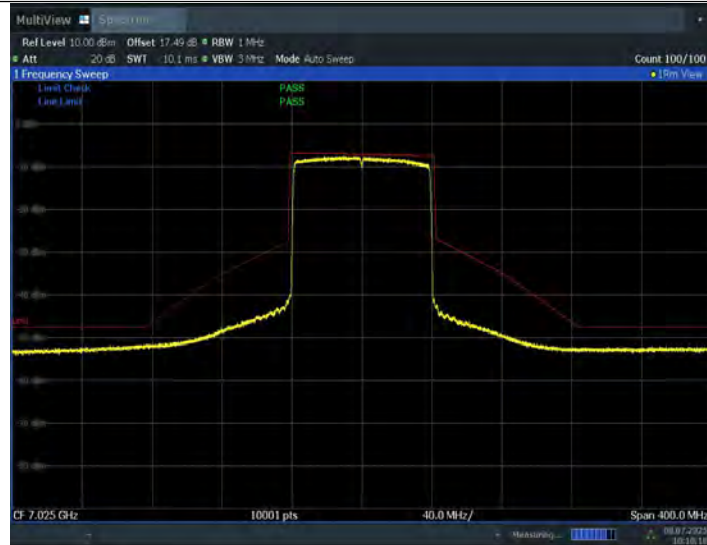
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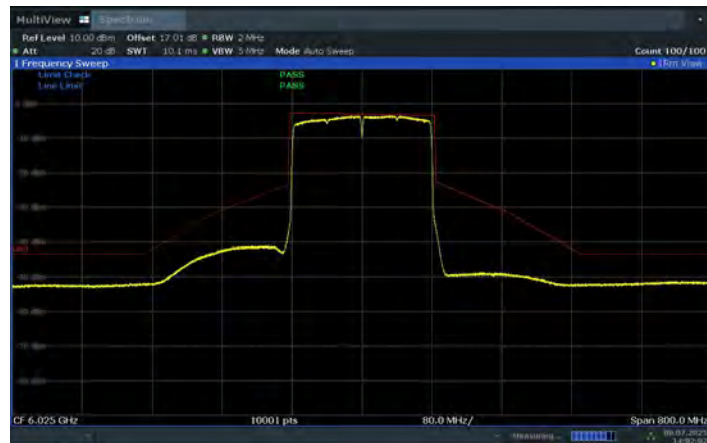
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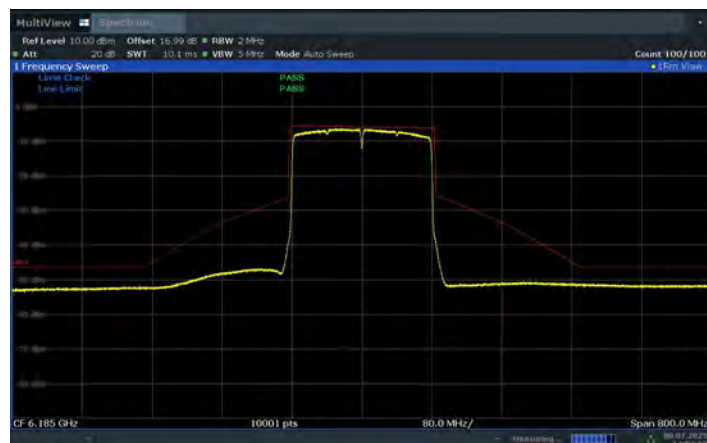
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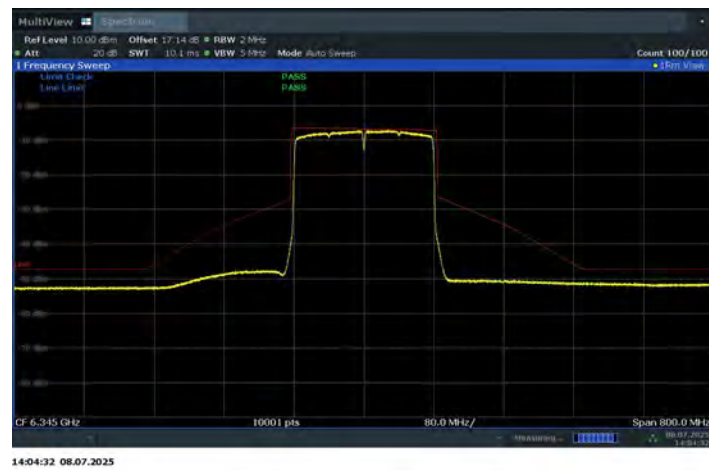
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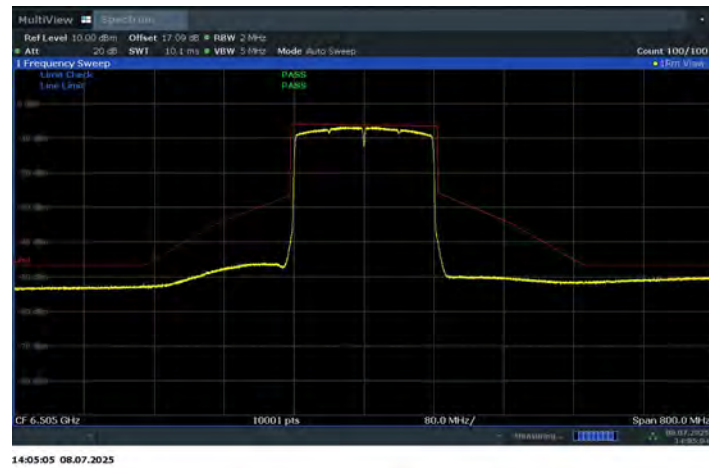


14:03:59 08.07.2025

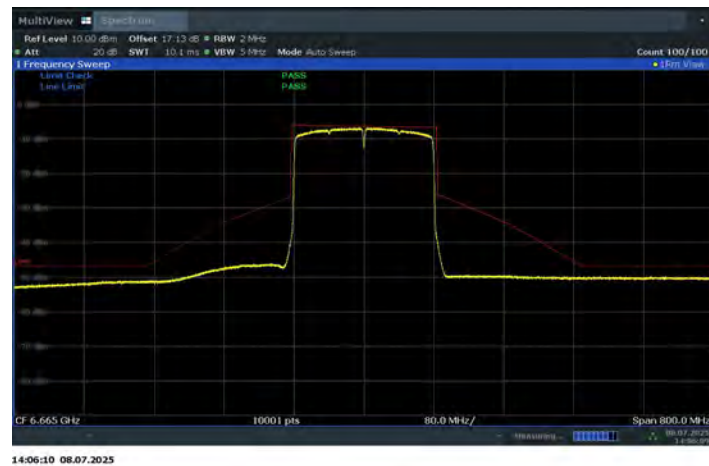
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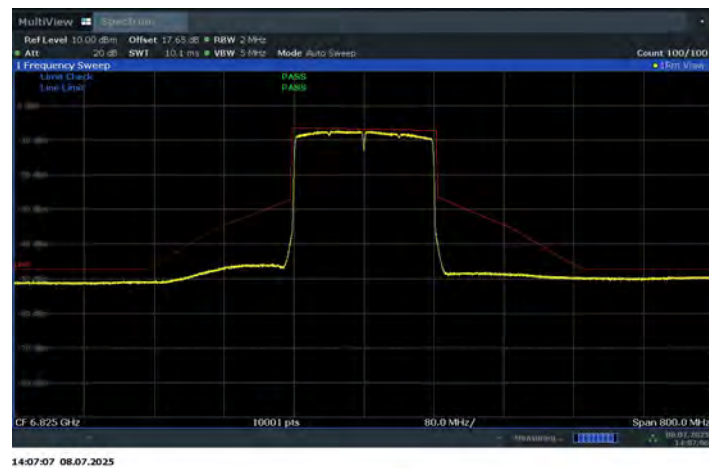
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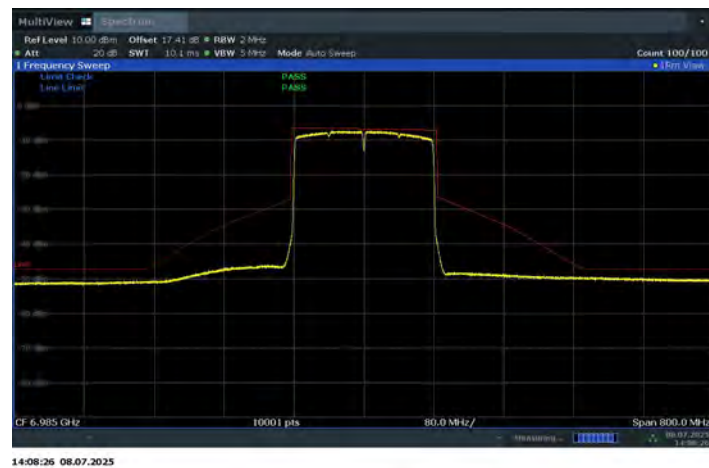
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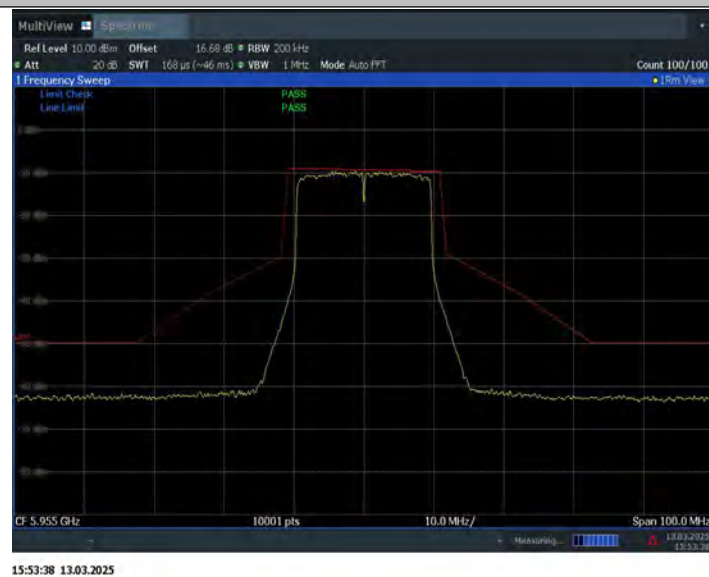
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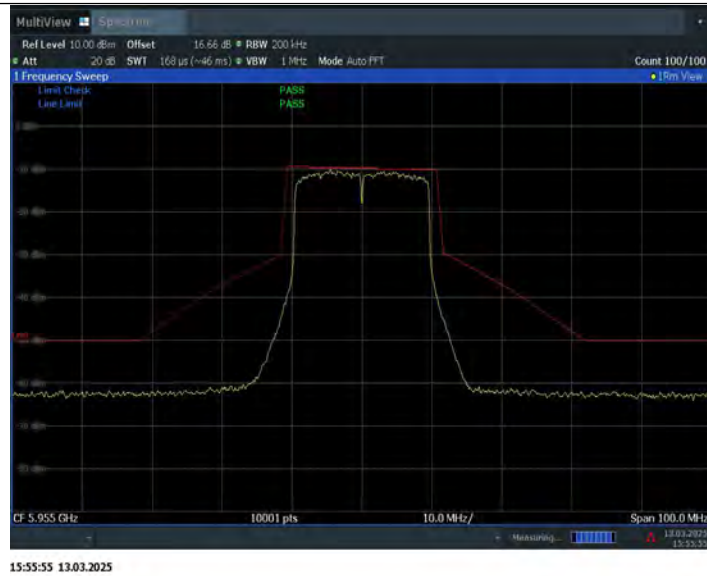
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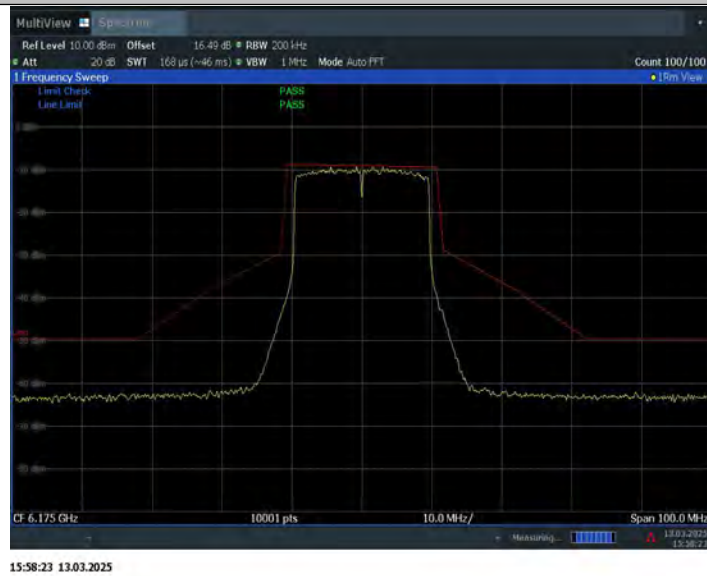
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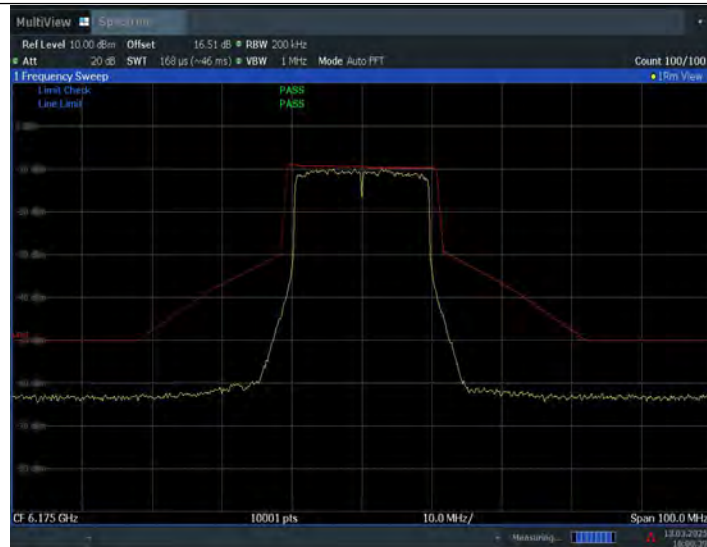
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11AX20MIMO_Ant7_6175

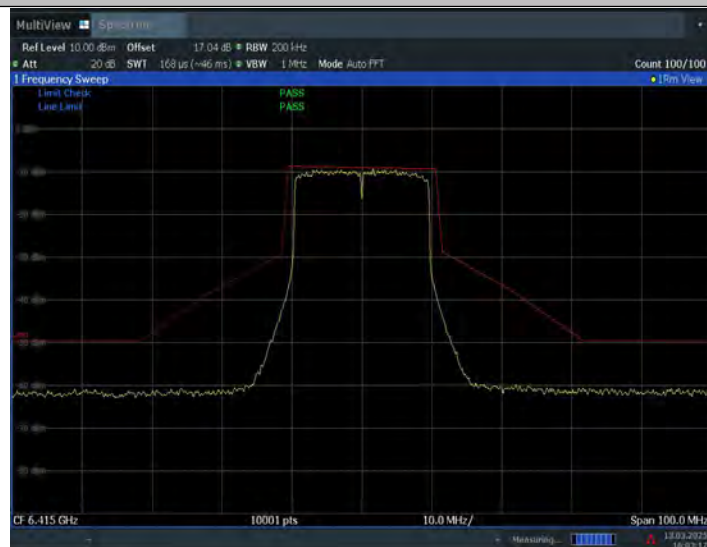


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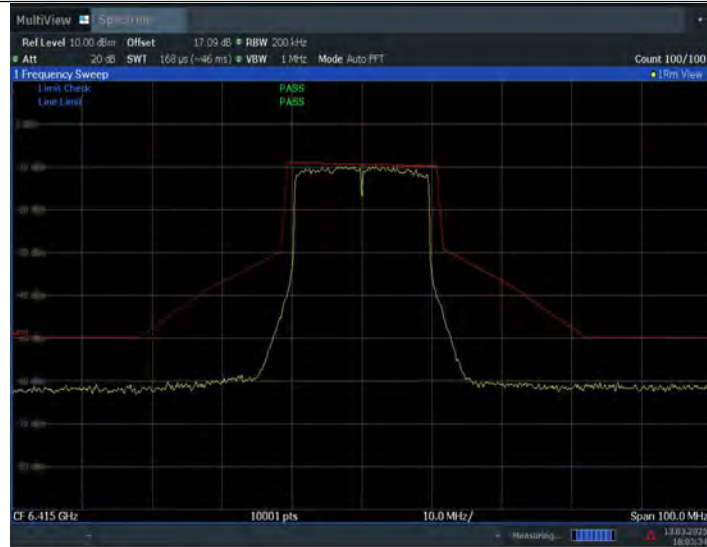
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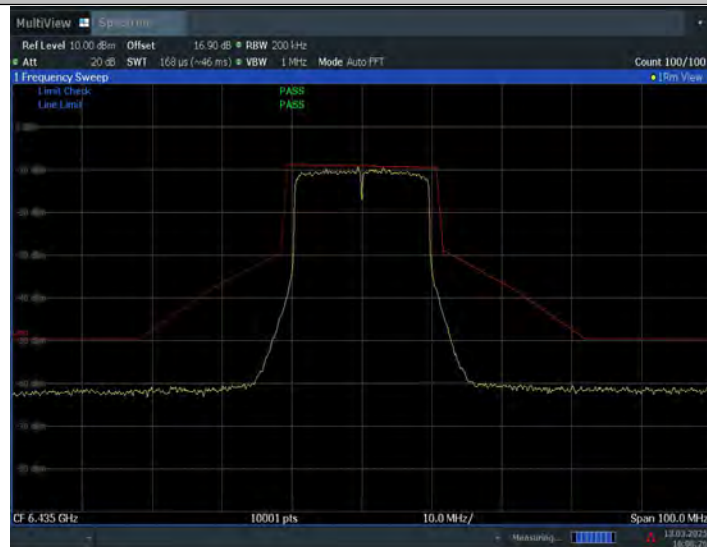
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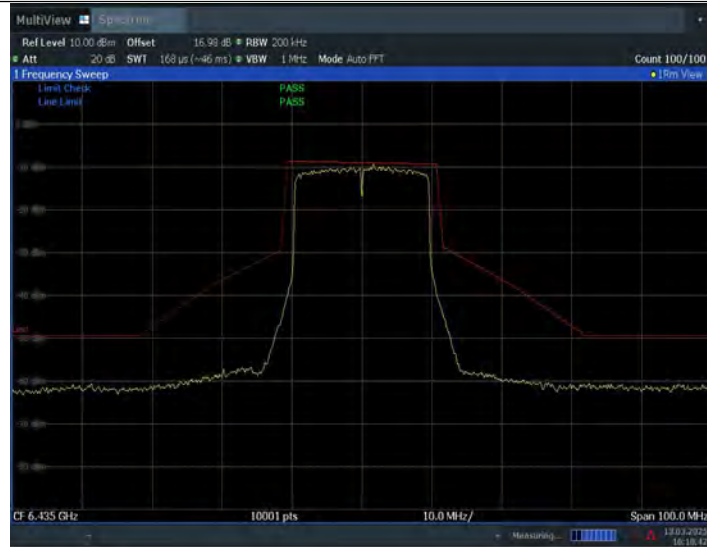
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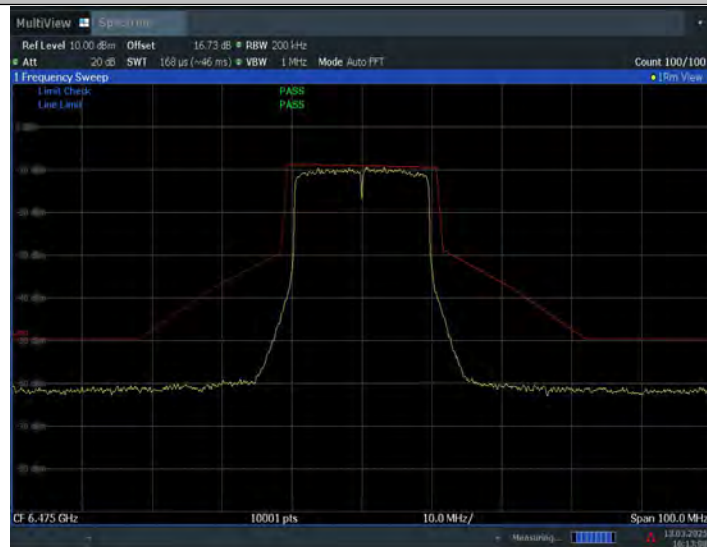
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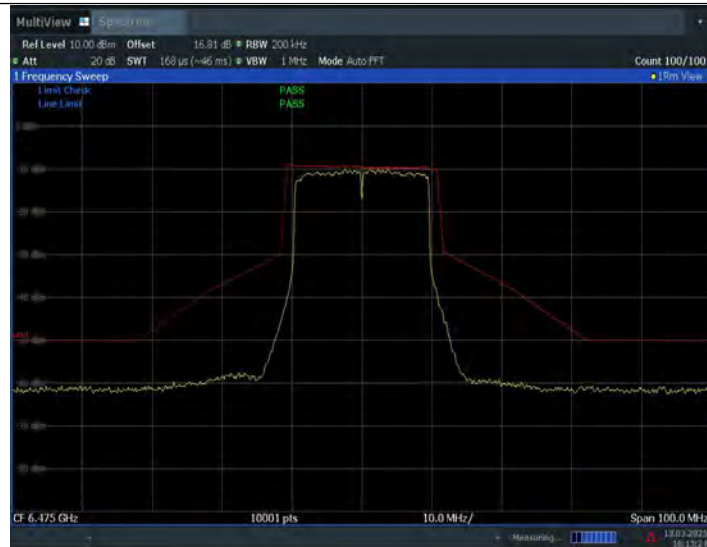
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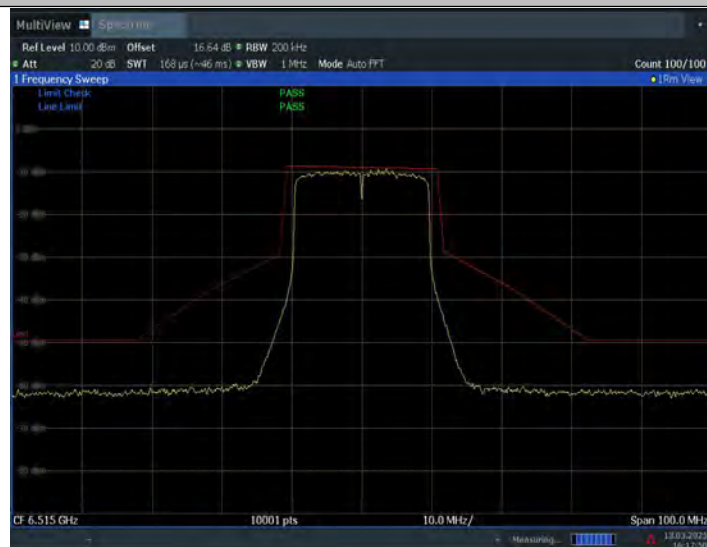
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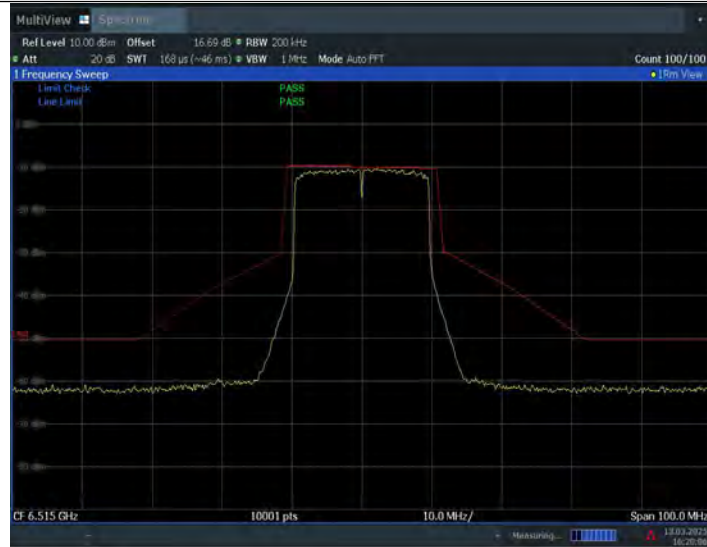
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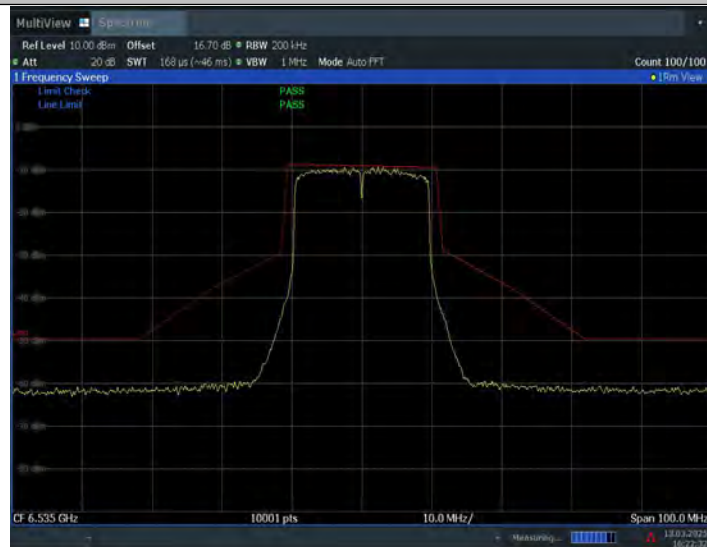
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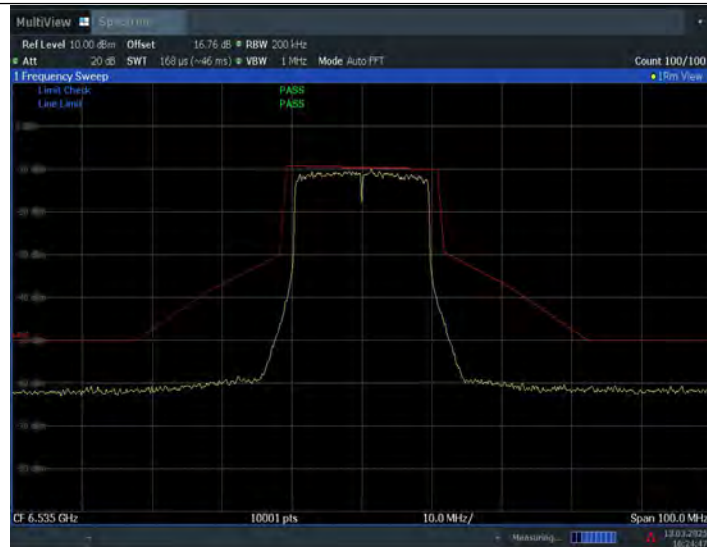
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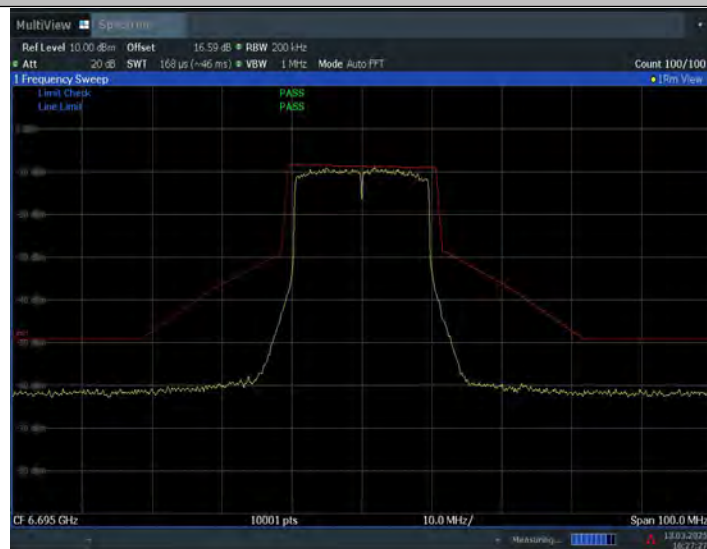


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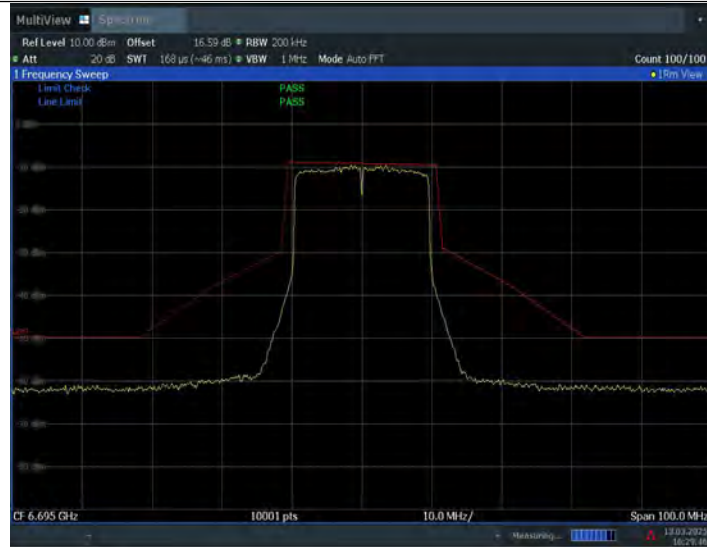
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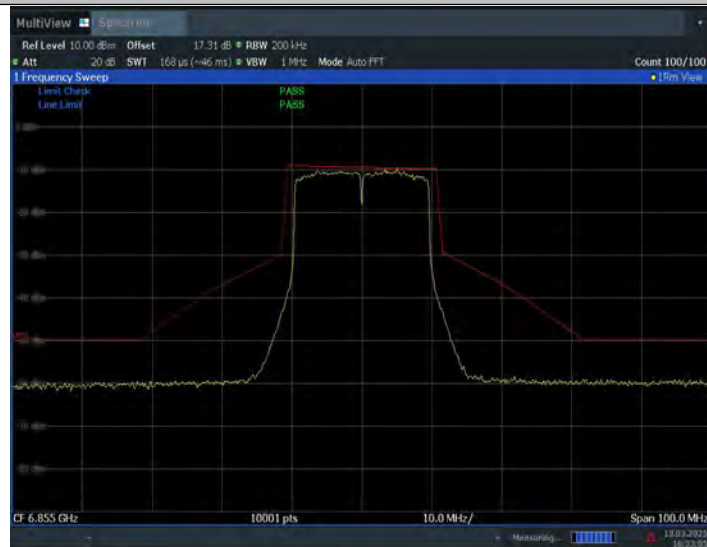
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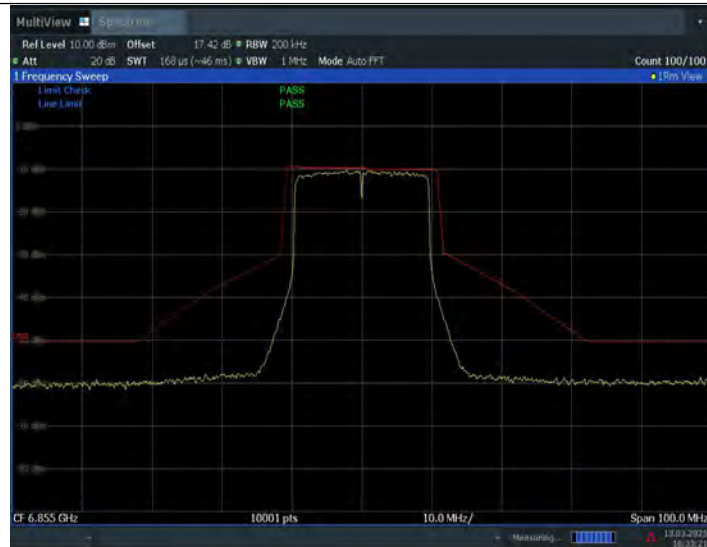
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11AX20MIMO_Ant7_6855

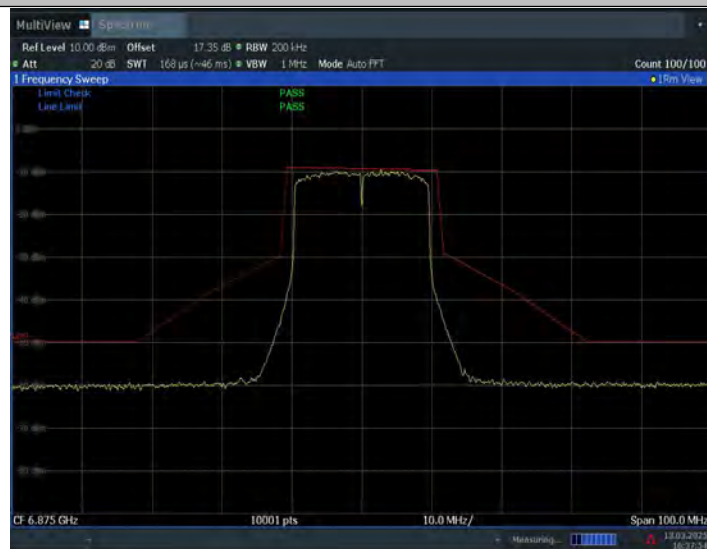


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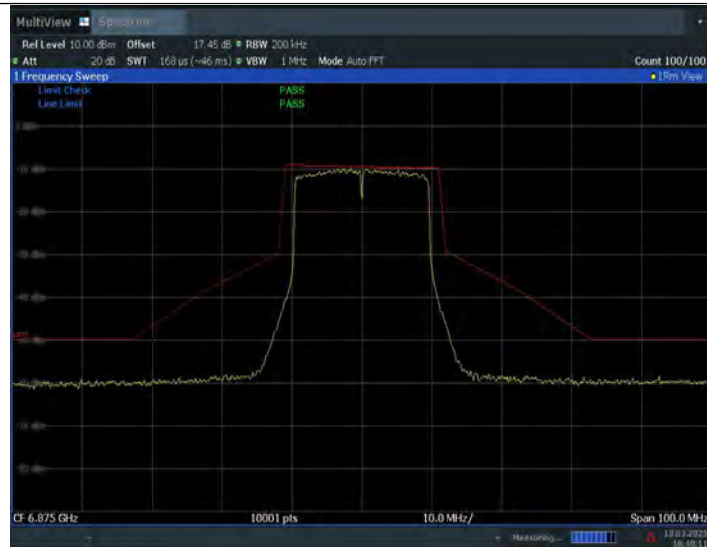
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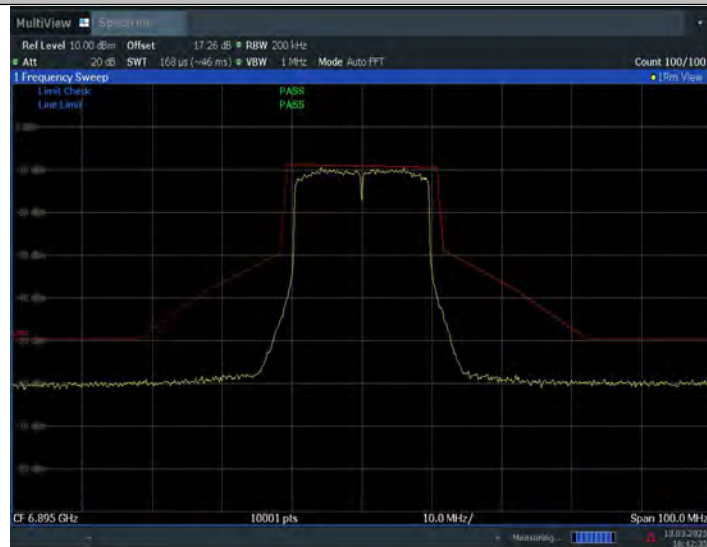


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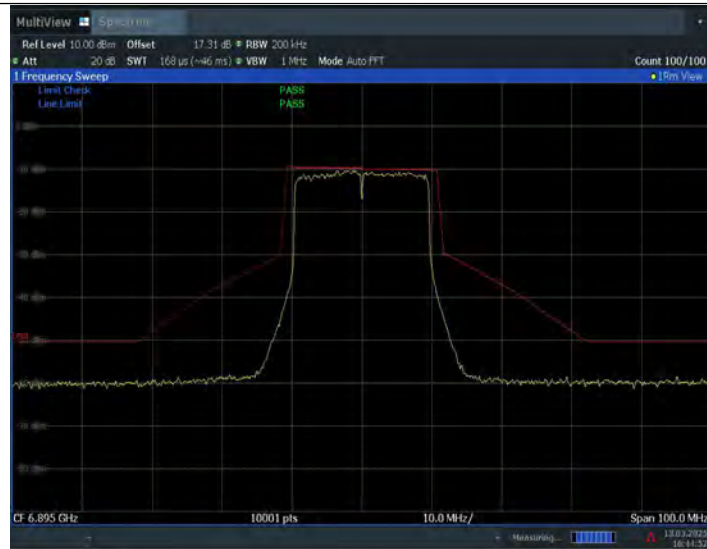
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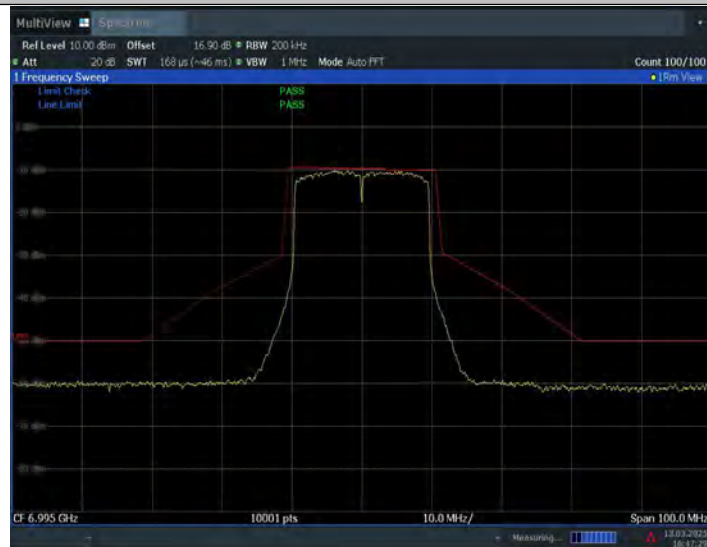


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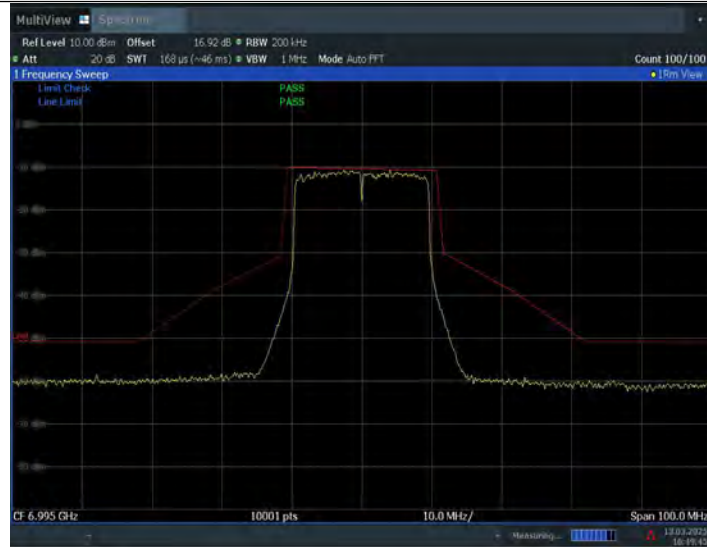
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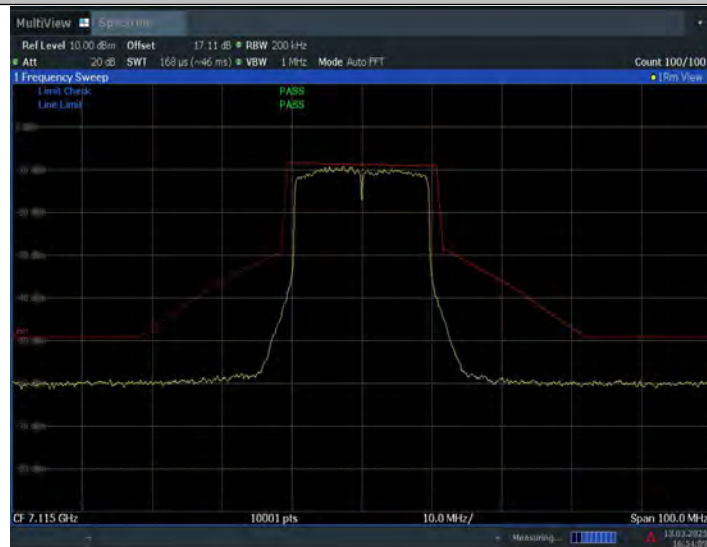
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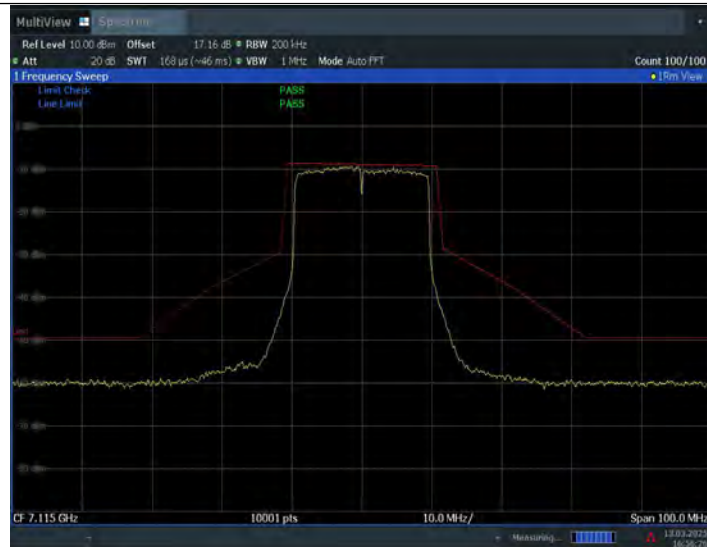
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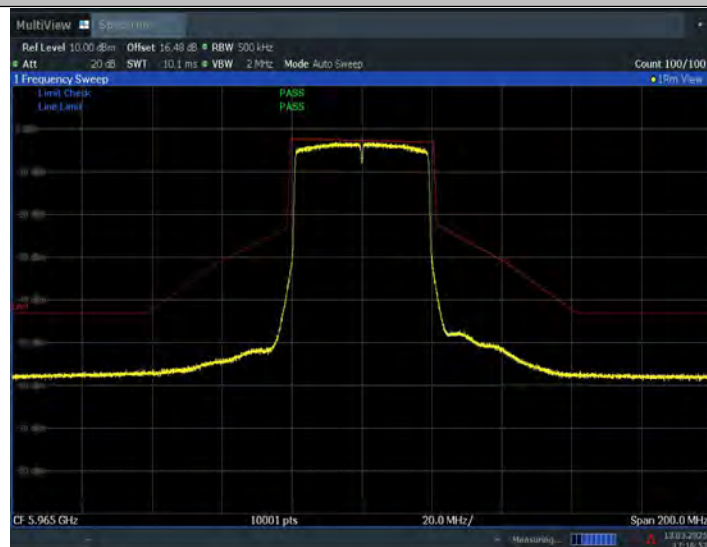
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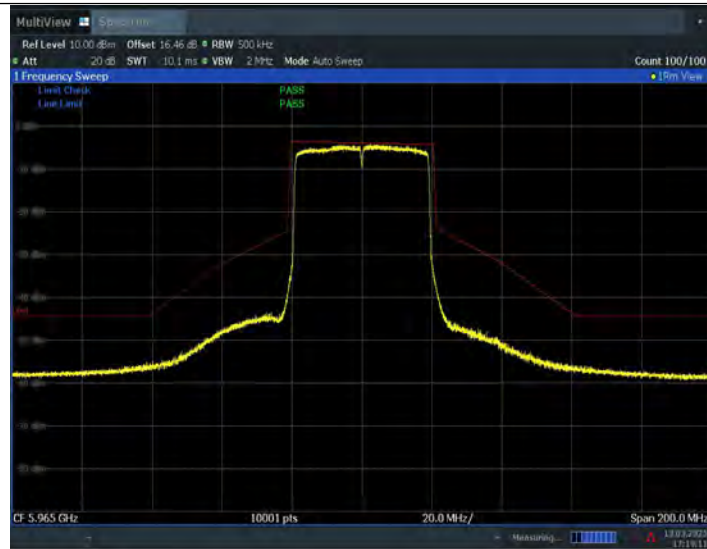
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11AX40MIMO_Ant7_5965



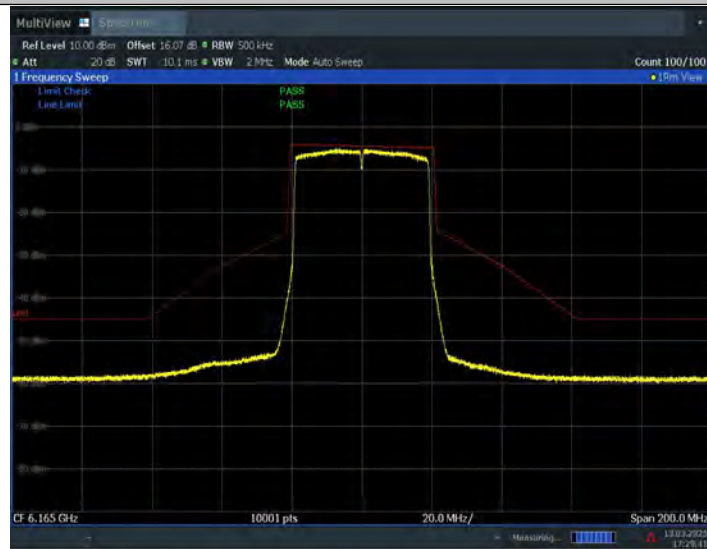
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11AX40MIMO_Ant9_5965



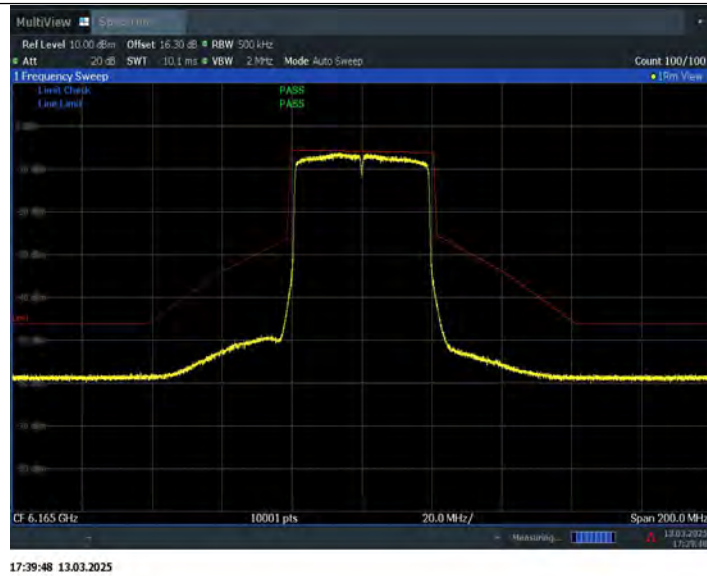
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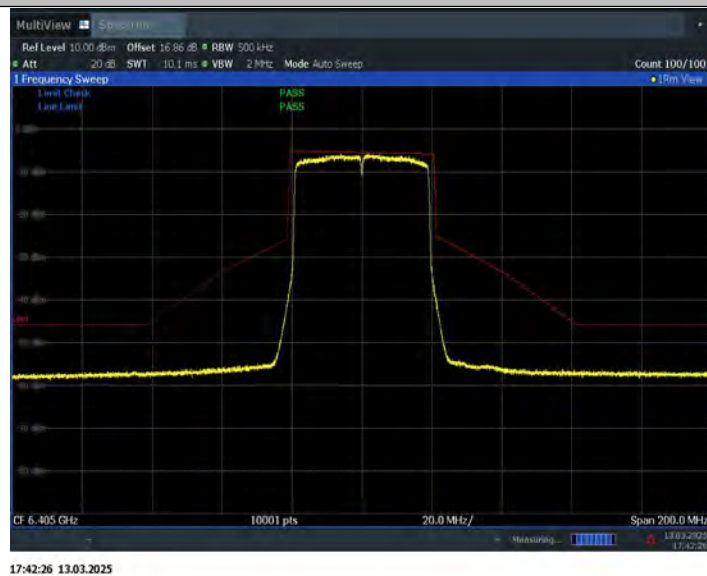


17:29:42 13.03.2025

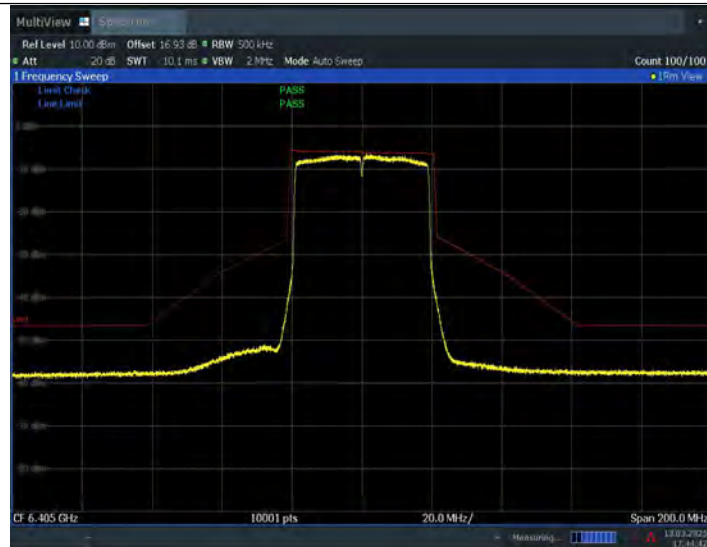
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11AX40MIMO_Ant7_6405

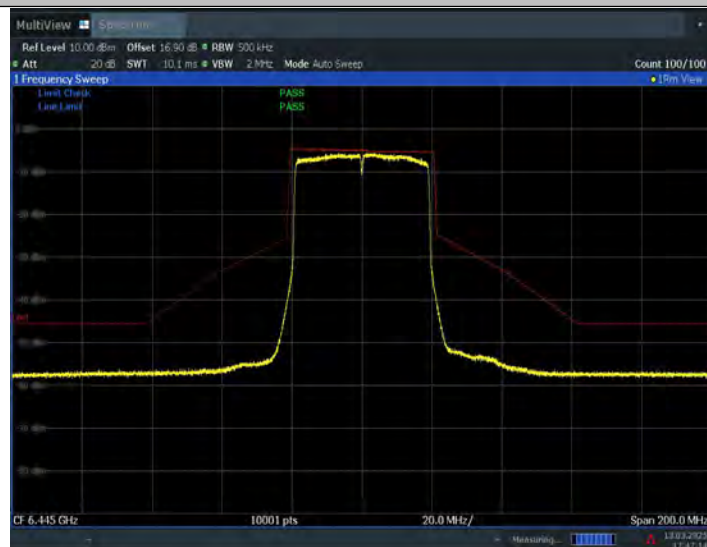


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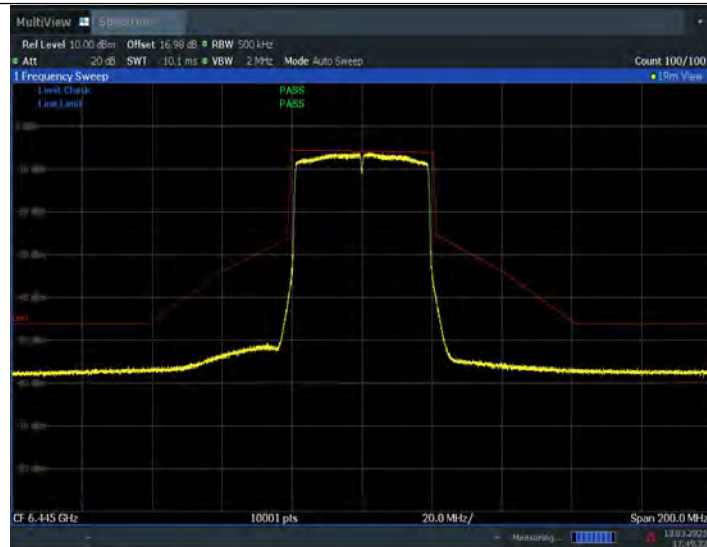
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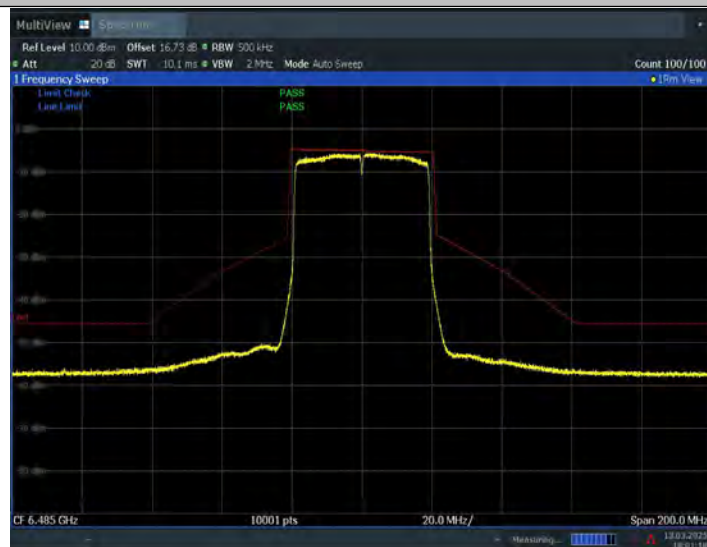


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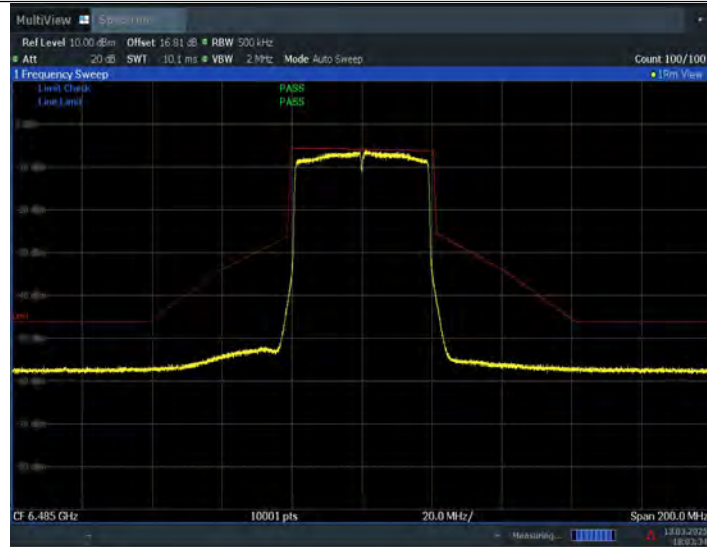
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11AX40MIMO_Ant7_6485

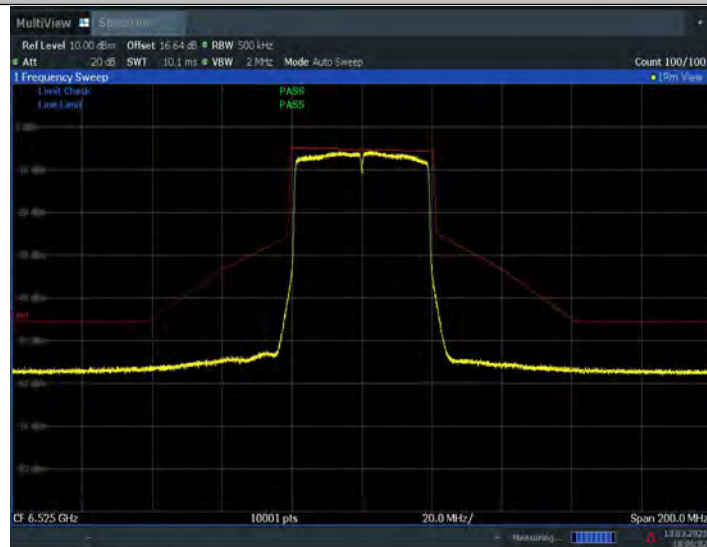


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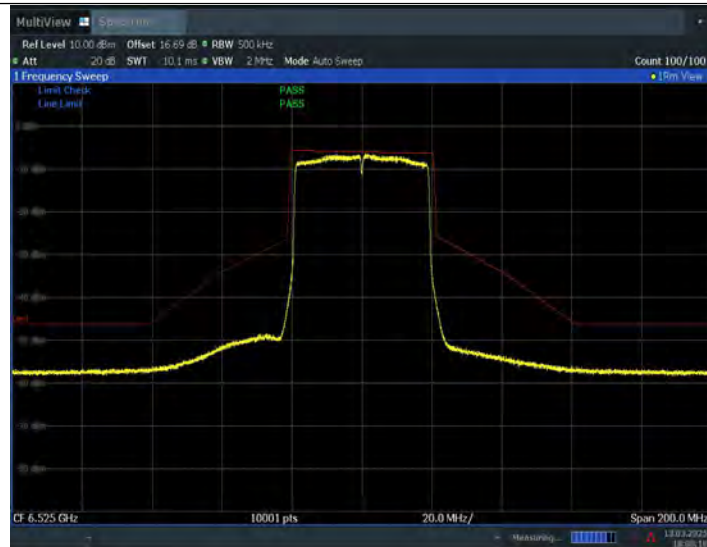
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11AX40MIMO_Ant7_6525

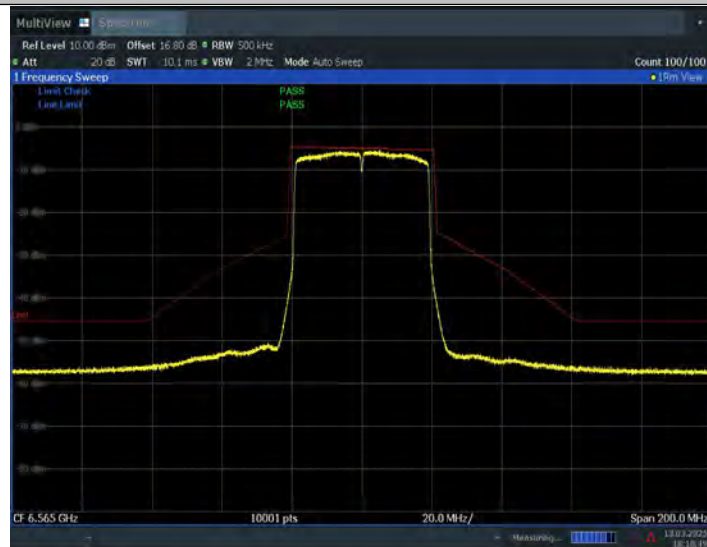


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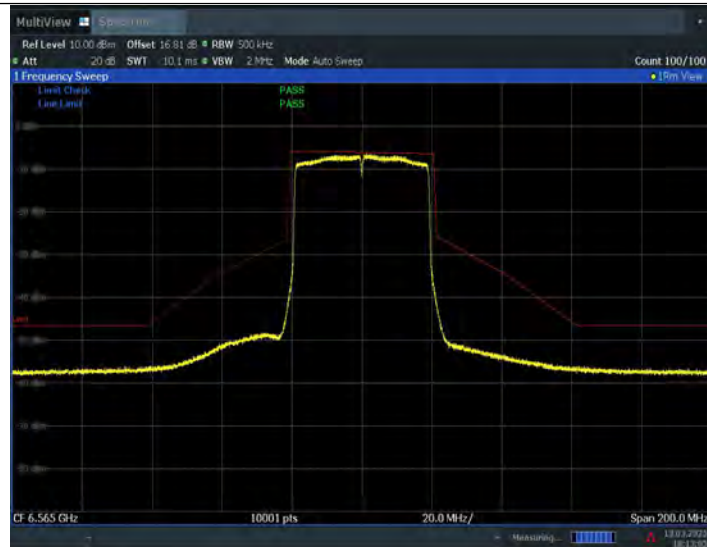
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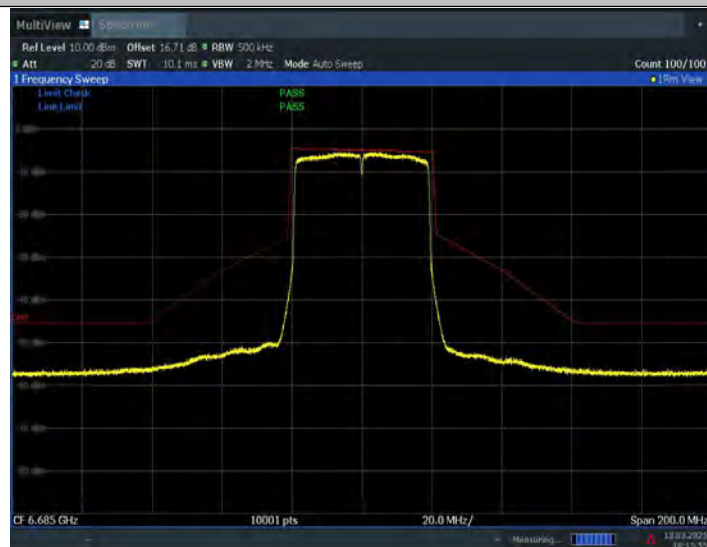


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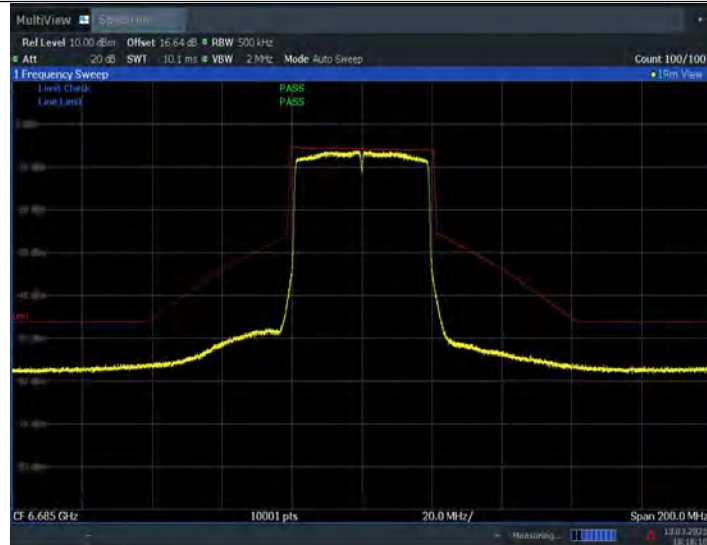
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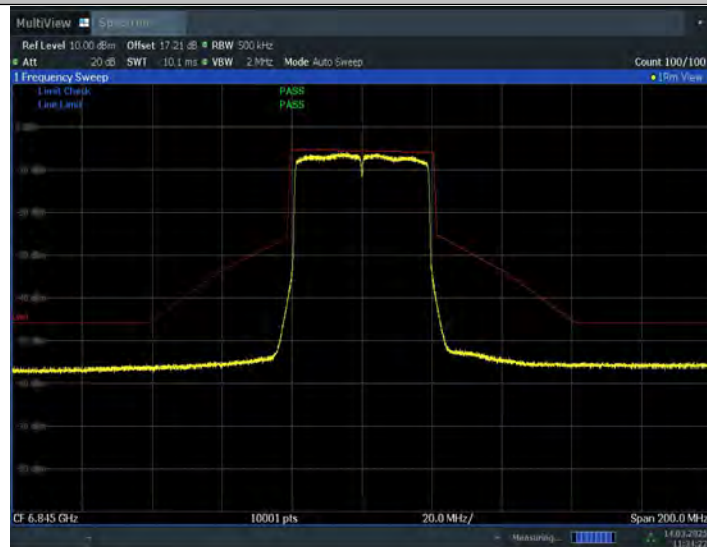


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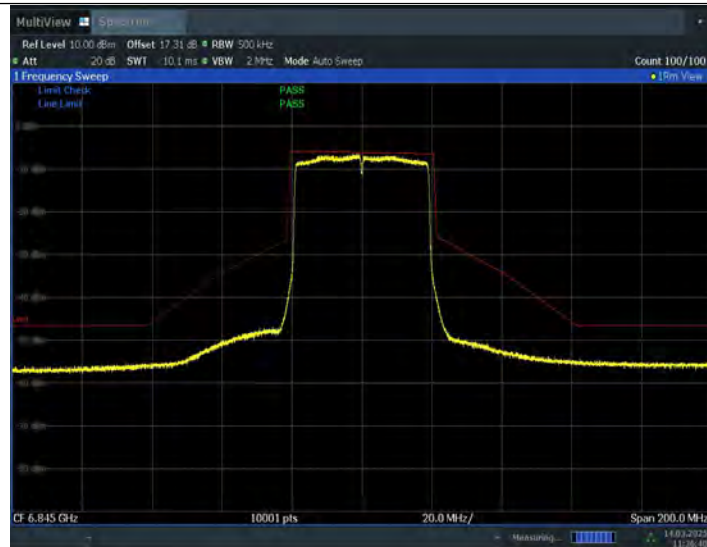
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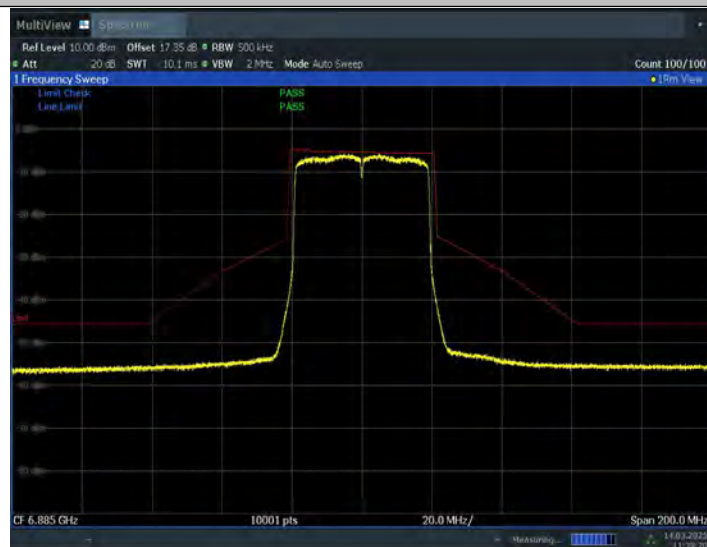
11AX40MIMO_Ant7_6845



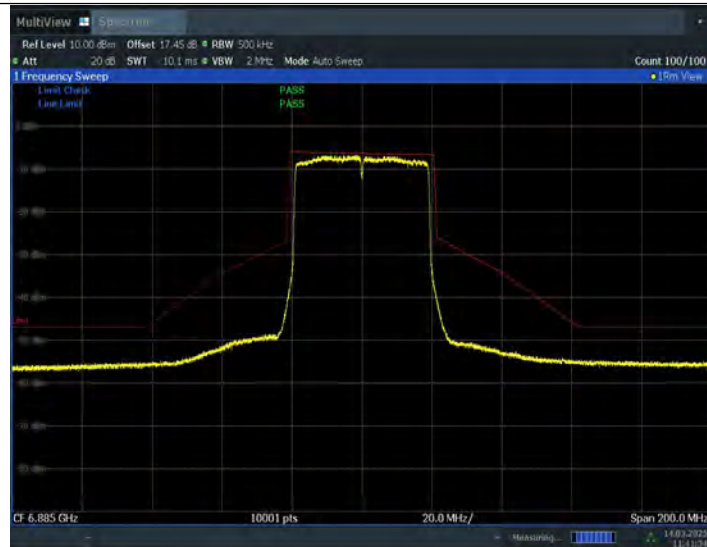
11AX40MIMO_Ant9_6845



11AX40MIMO_Ant7_6885

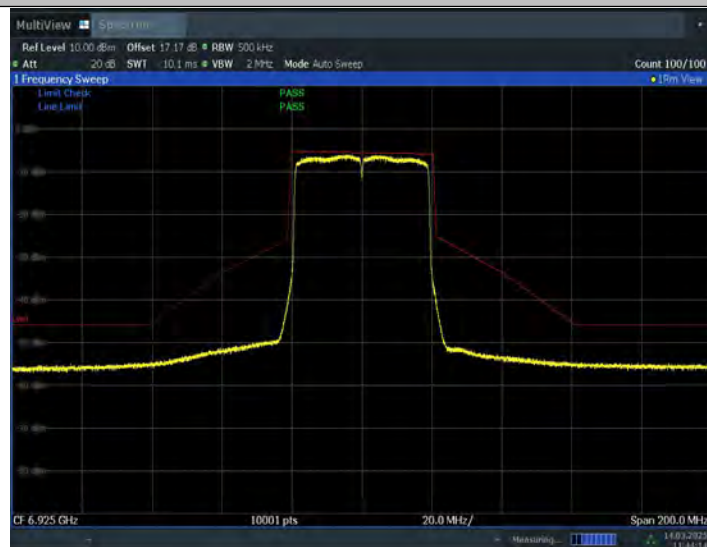


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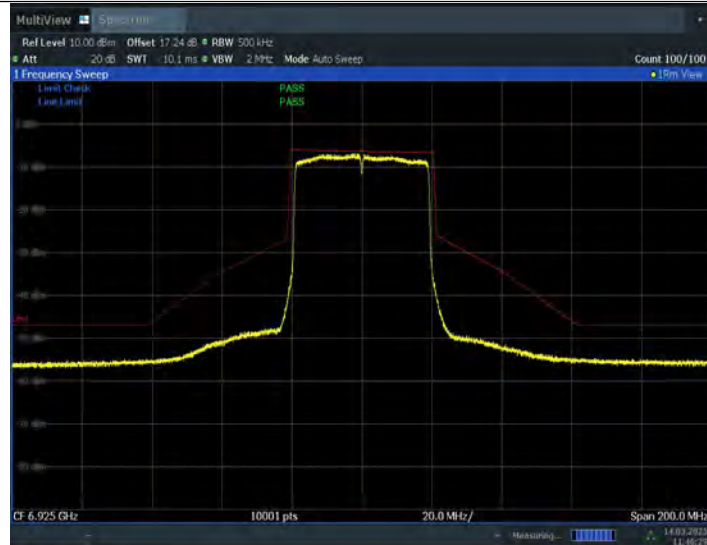
11:41:35 14.03.2025

11AX40MIMO_Ant7_6925

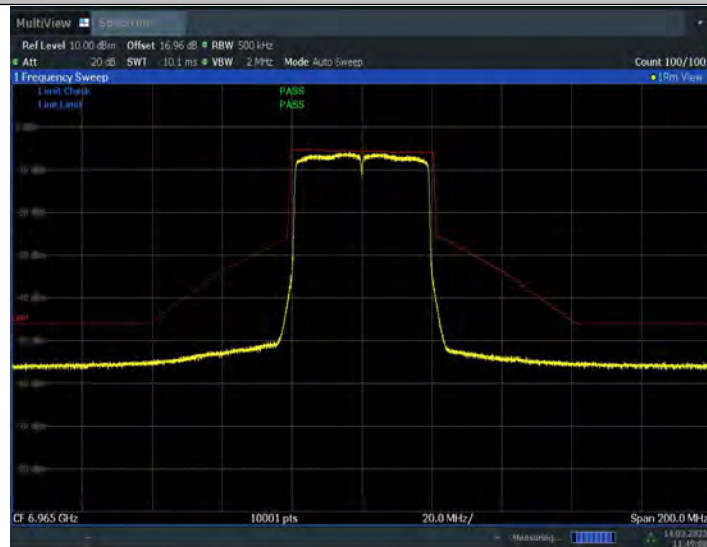


11:44:14 14.03.2025

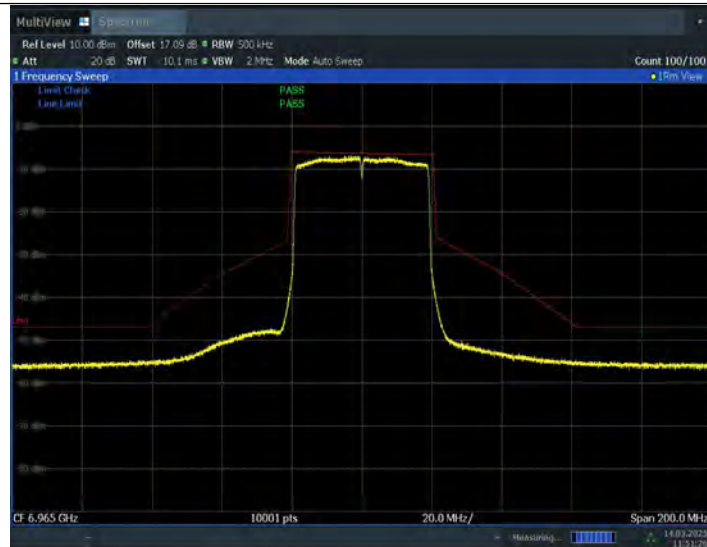
11AX40MIMO_Ant9_6925



11AX40MIMO_Ant7_6965

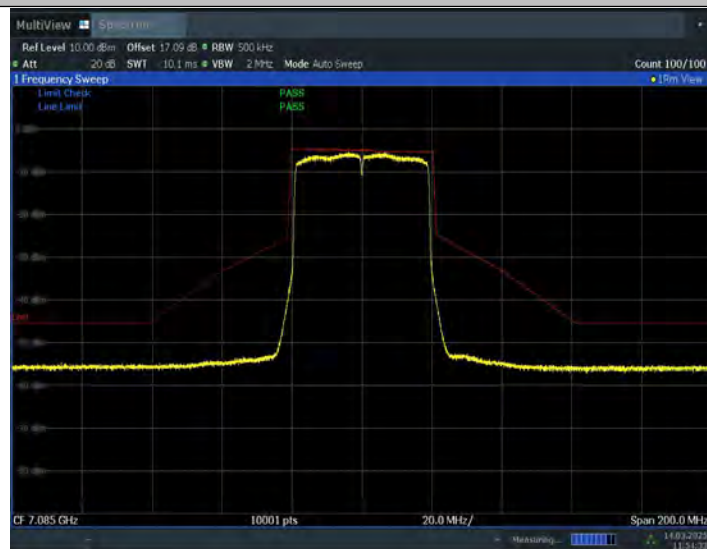


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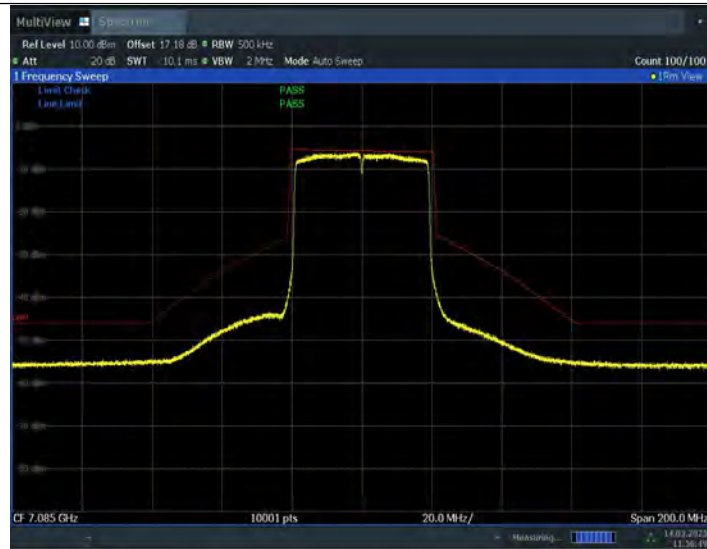
11:51:26 14.03.2025

11AX40MIMO_Ant7_7085



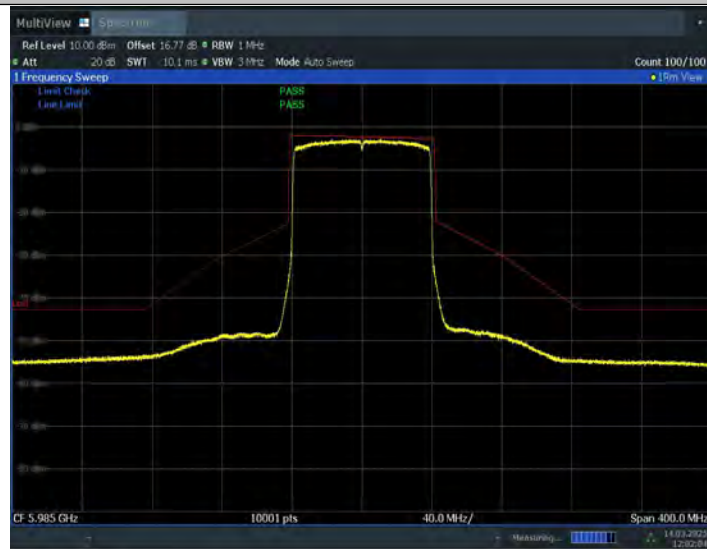
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11AX40MIMO_Ant9_7085



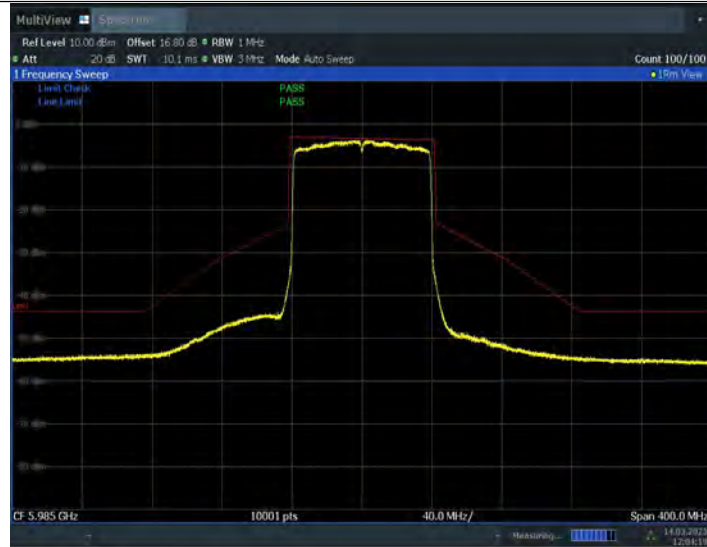
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11AX80MIMO_Ant7_5985

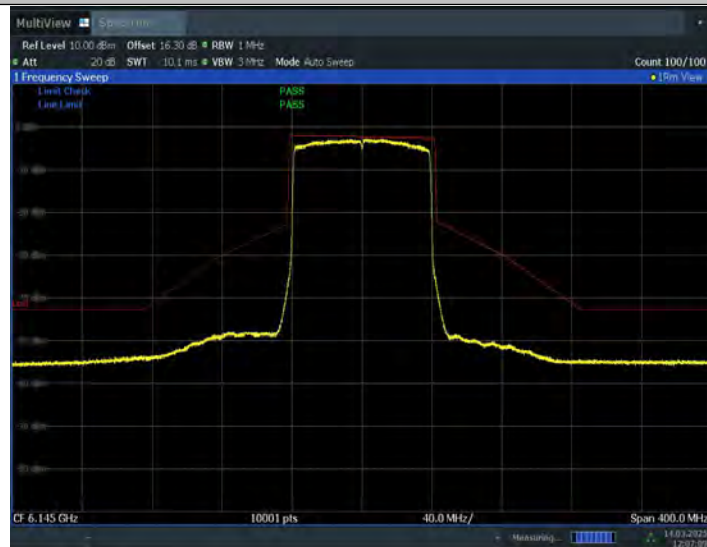


12:02:05 14.03.2025

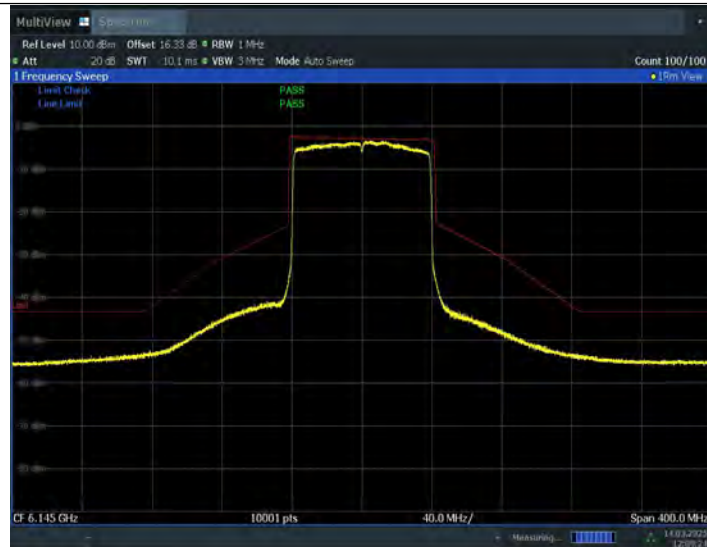
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11AX80MIMO_Ant7_6145

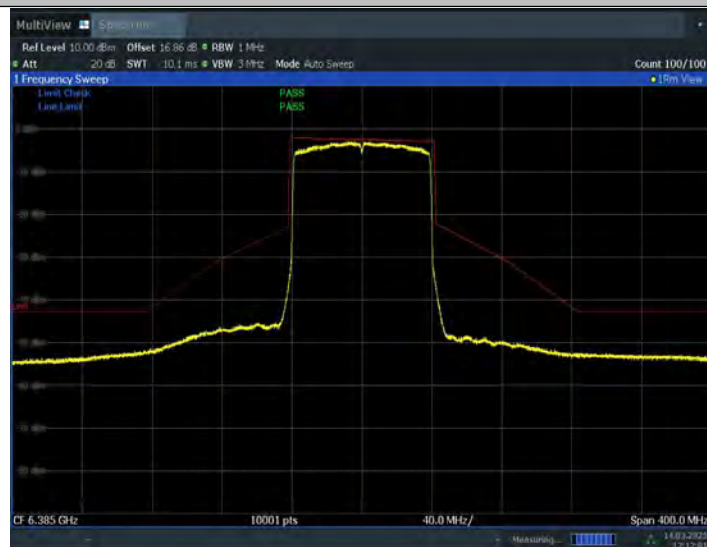


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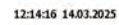
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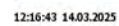


12:12:01 14.03.2025

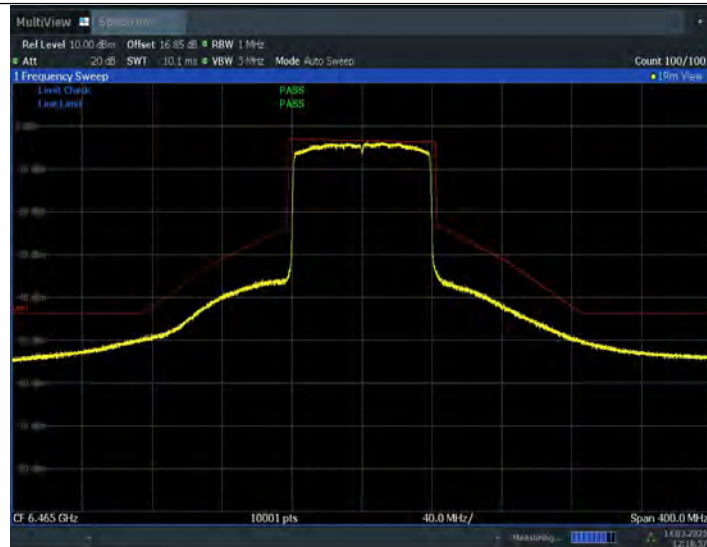
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11AX80MIMO_Ant7_6465

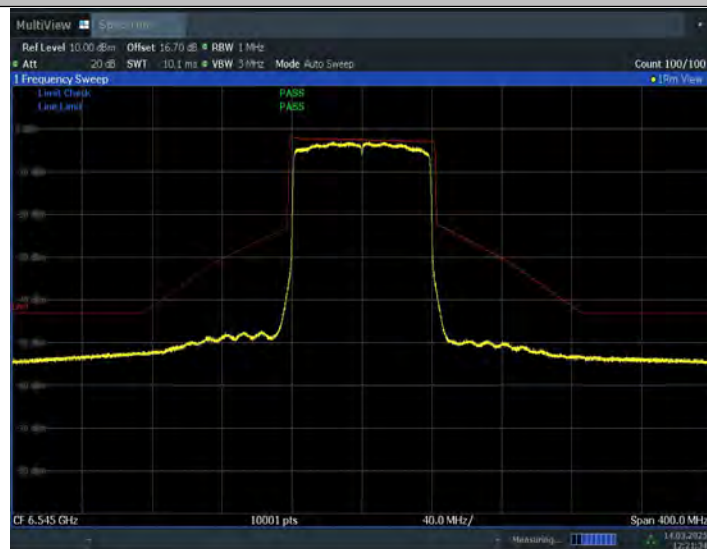


11AX80MIMO_Ant9_6465



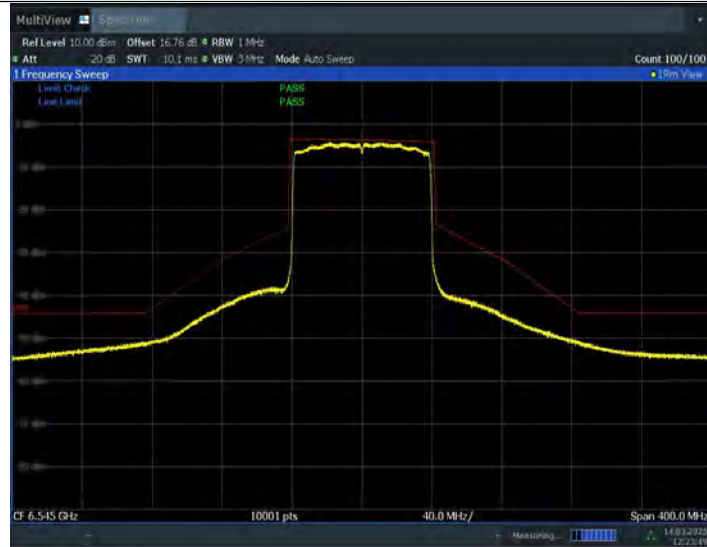
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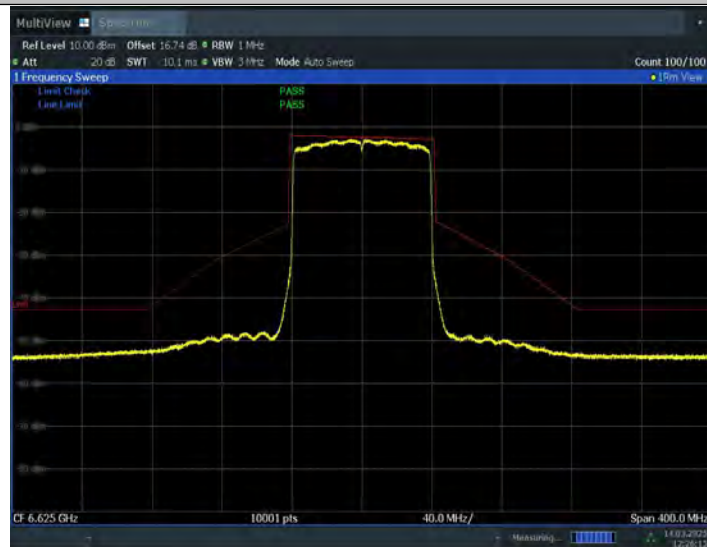
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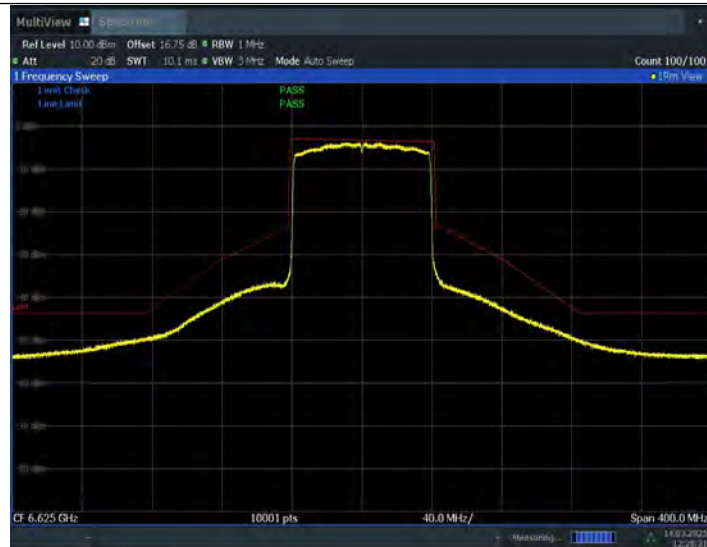
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11AX80MIMO_Ant7_6625



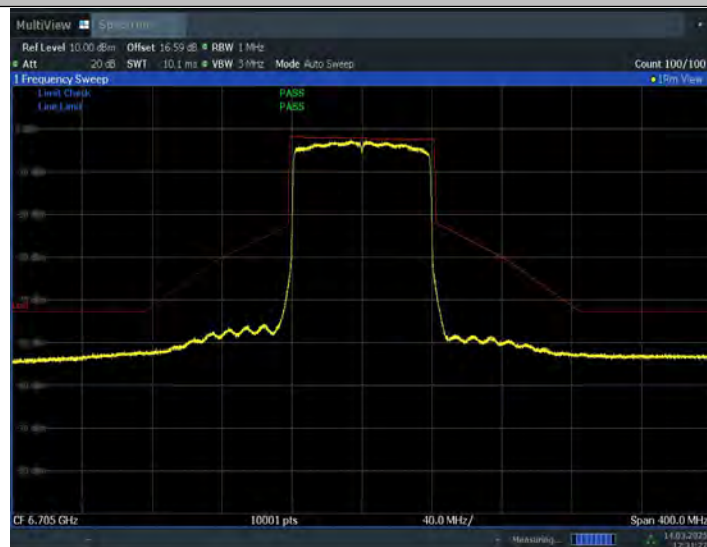
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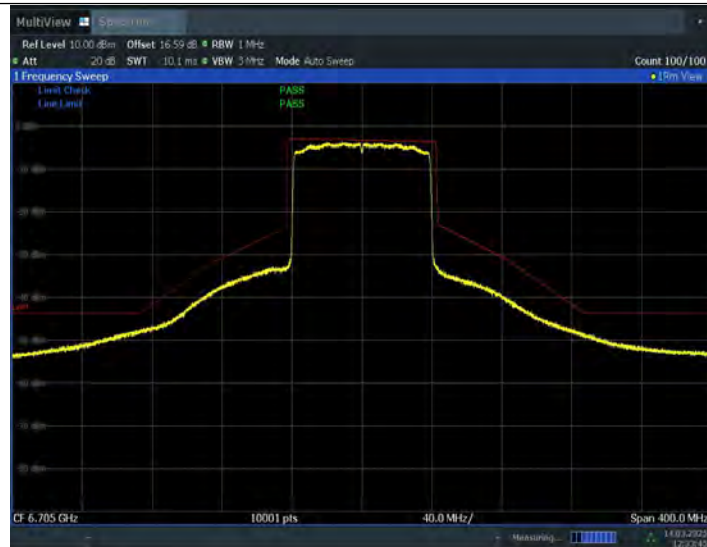
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11AX80MIMO_Ant7_6705



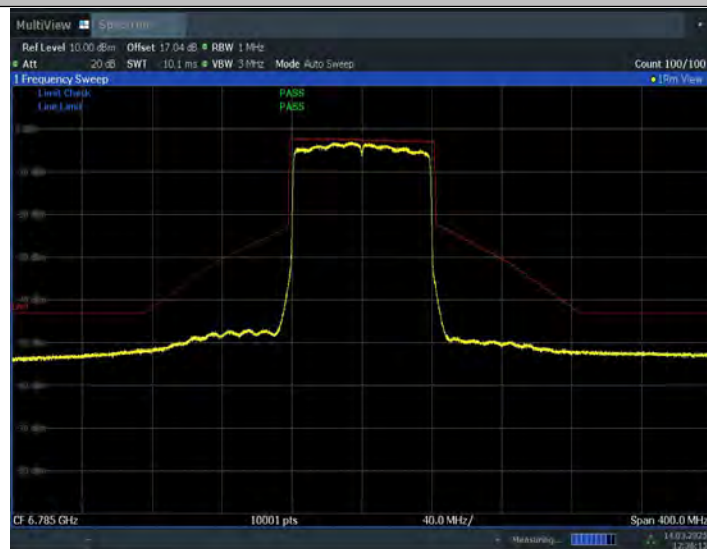
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11AX80MIMO_Ant9_6705



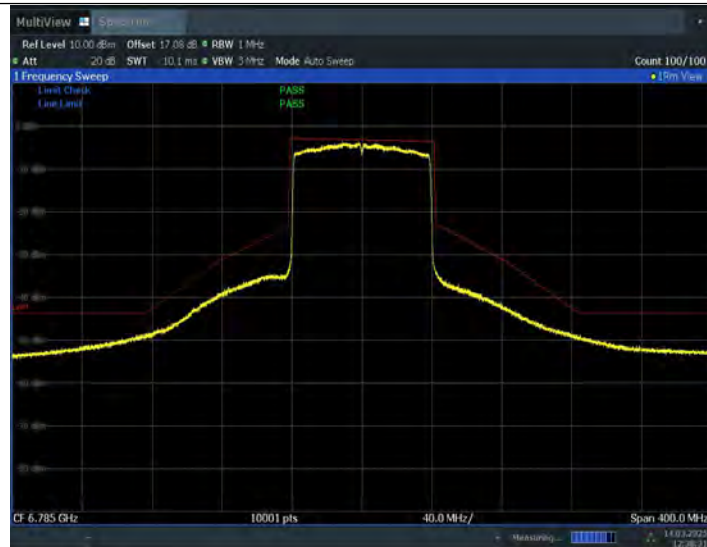
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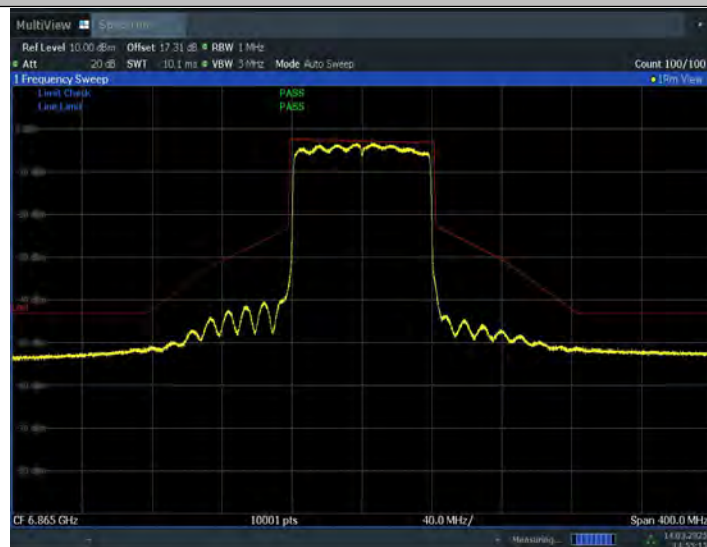
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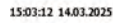
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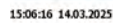


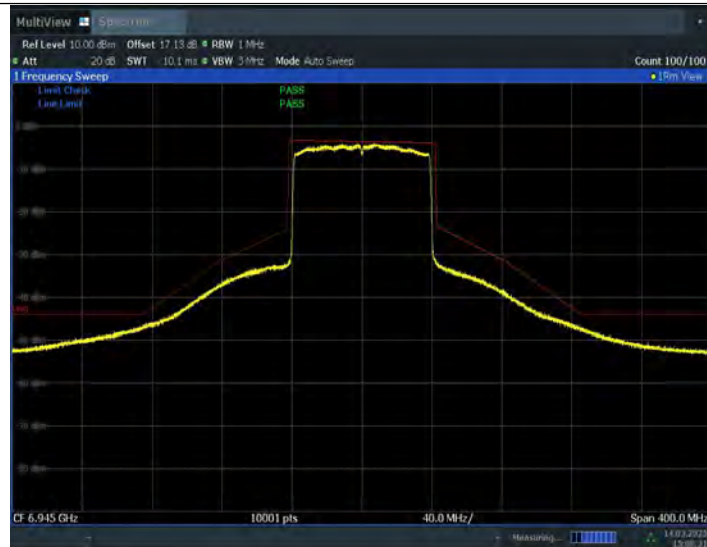
14:55:16 14.03.2025

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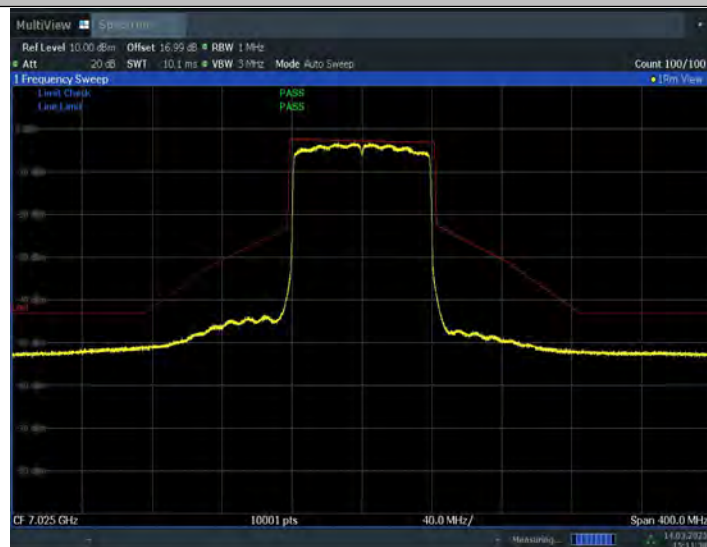
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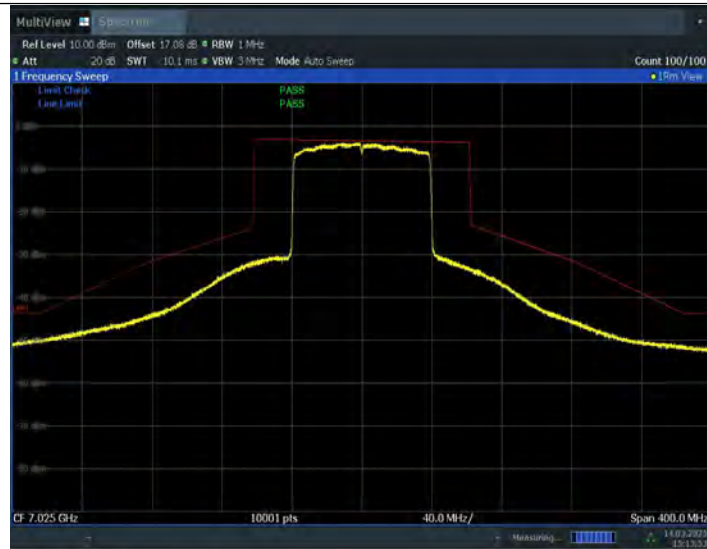
15:08:32 14.03.2023

11AX80MIMO_Ant7_7025



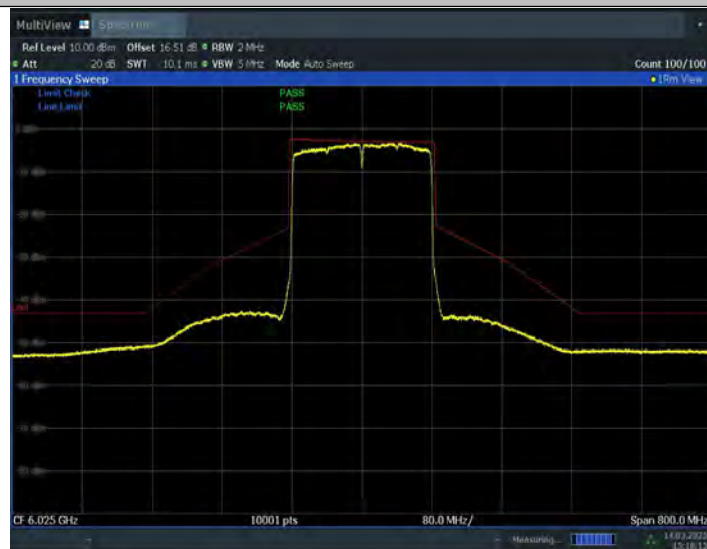
15:11:38 14.03.2023

11AX80MIMO_Ant9_7025



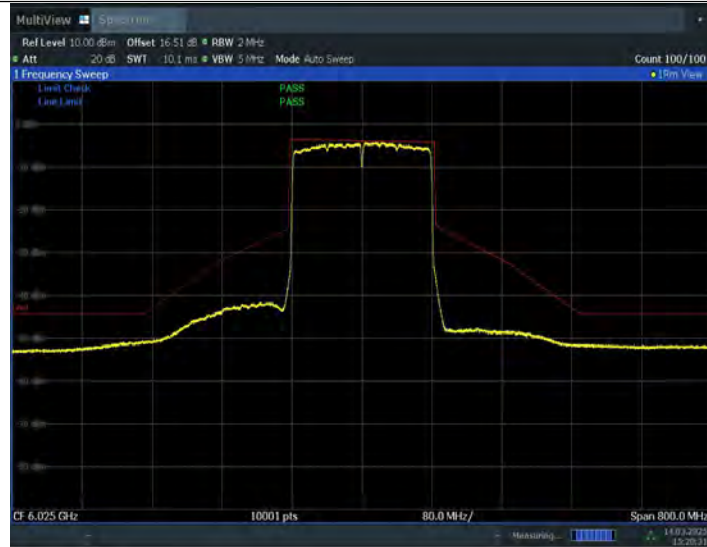
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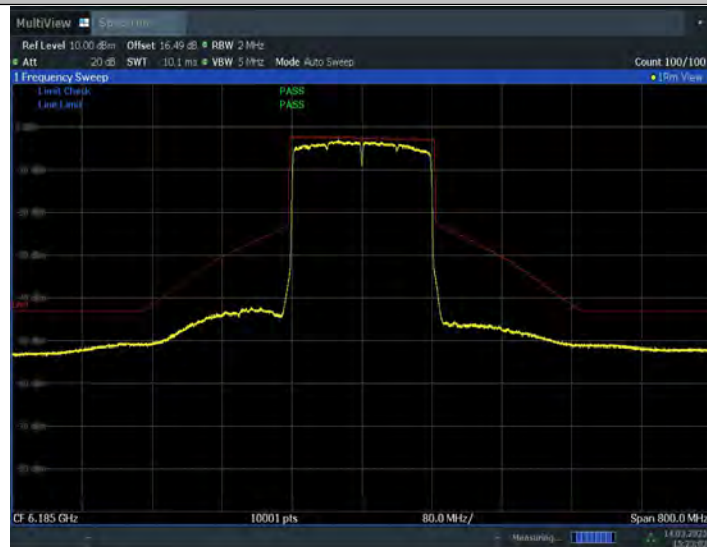
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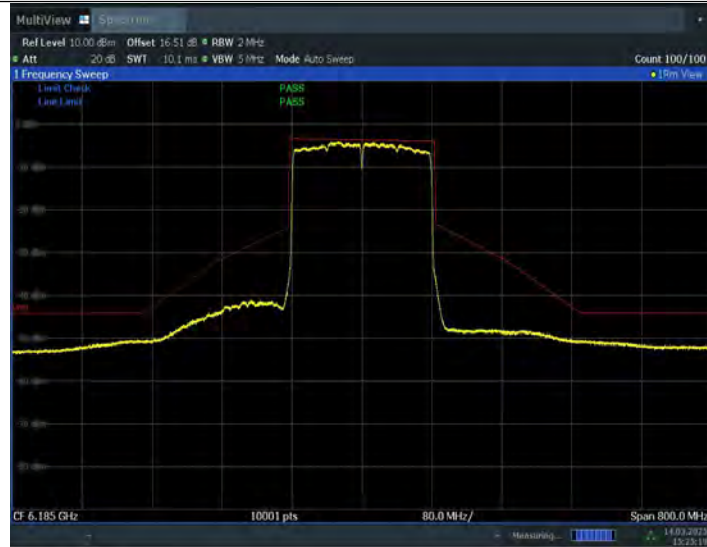
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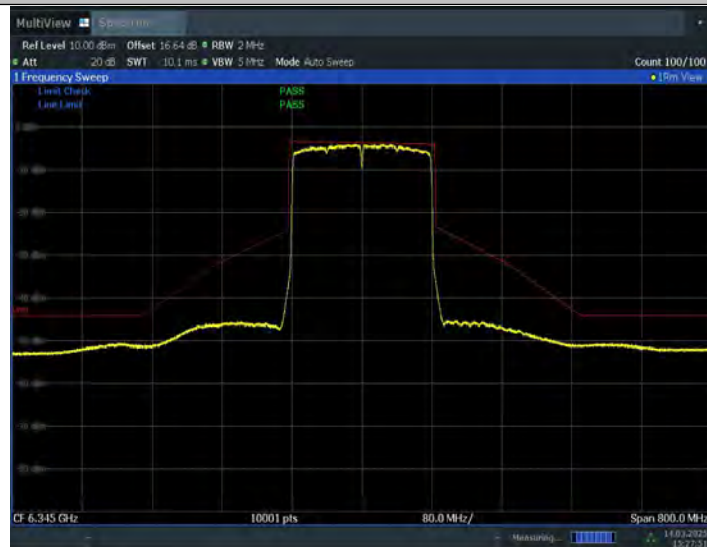


15:23:04 14.03.2025

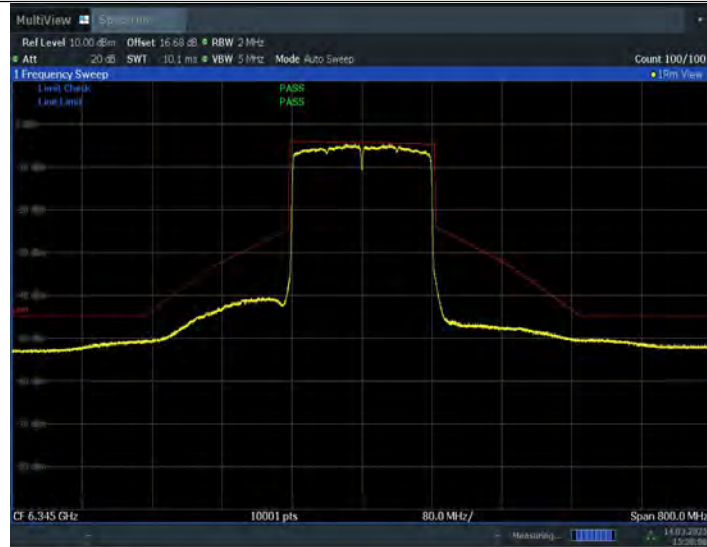
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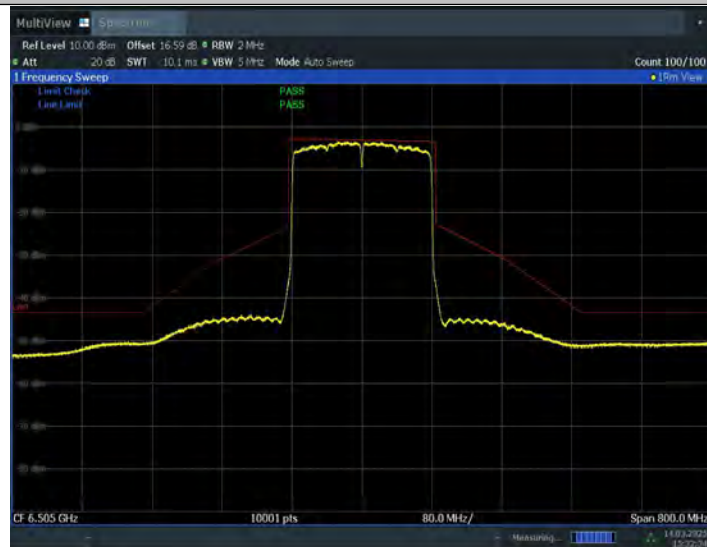
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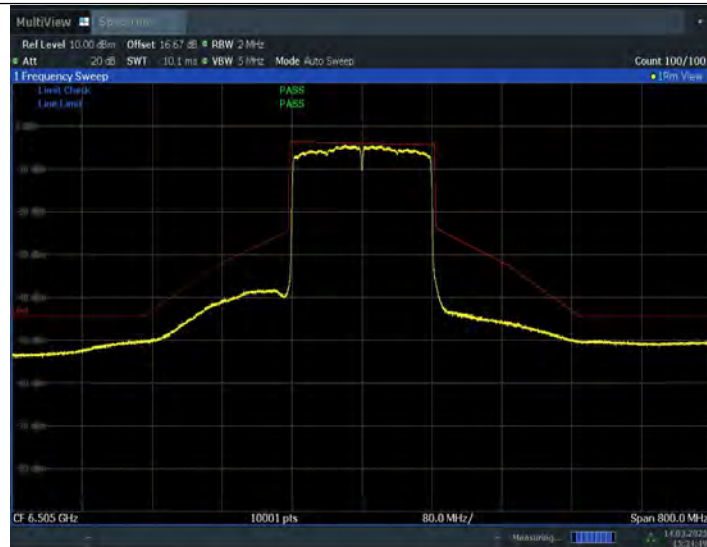
11AX160MIMO_Ant9_6345



11AX160MIMO_Ant7_6505

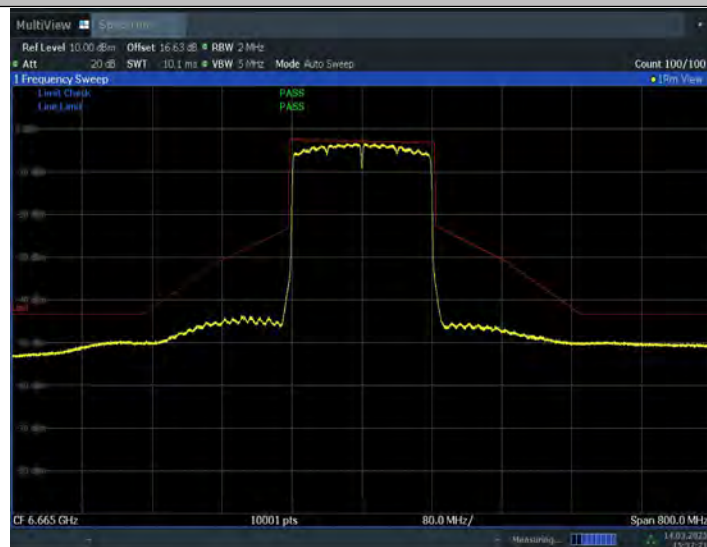


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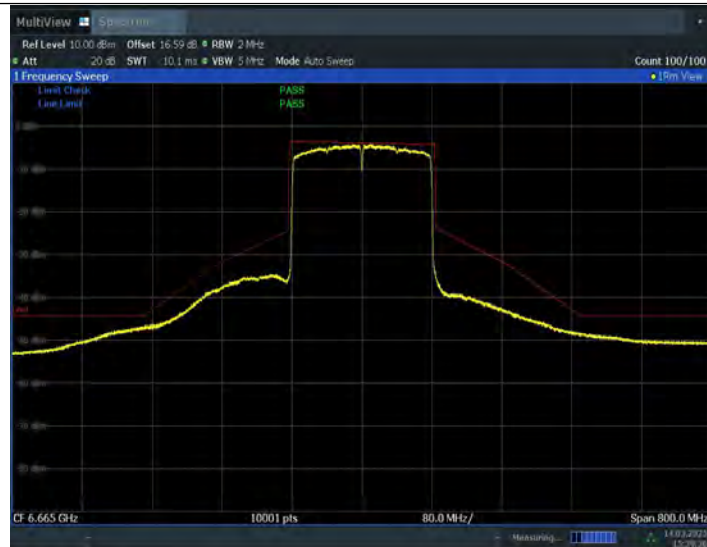
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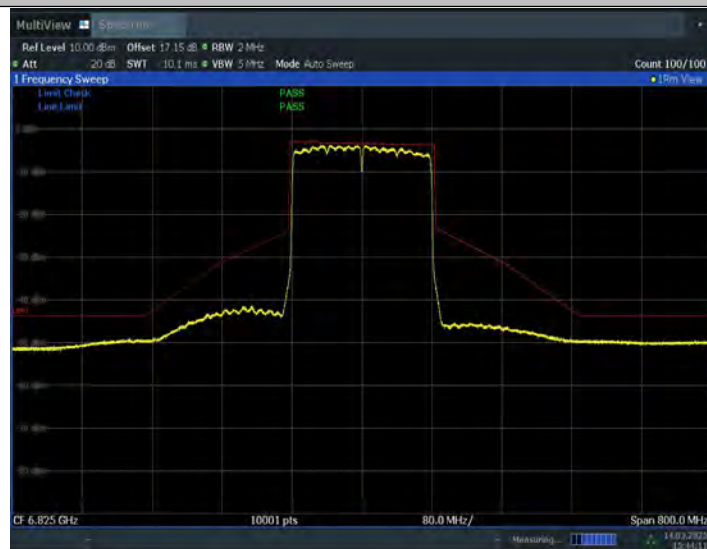


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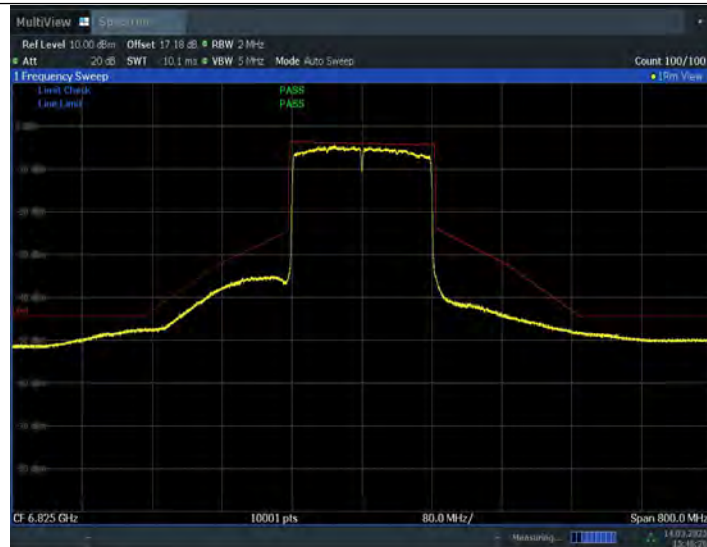
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11AX160MIMO_Ant7_6825

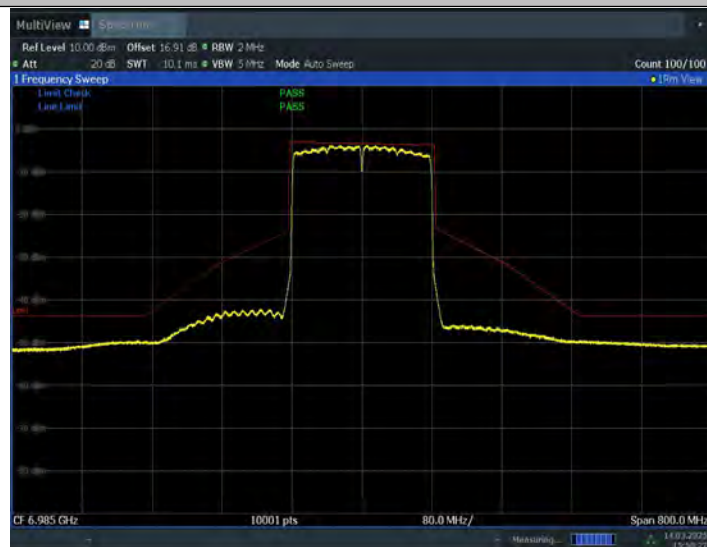


11AX160MIMO_Ant9_6825



15:46:27 14.03.2023

11AX160MIMO_Ant7_6985



15:50:27 14.03.2023

11AX160MIMO_Ant9_6985



11ax-RU

Test Mode	Antenna	Frequency[MHz]	RU Size	RU Index	Result	Limit	Verd
11AX20MIMO	Ant7	5955	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant9	5955	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant7	6175	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant9	6175	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant7	6415	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant9	6415	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant7	6435	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS

			106Tone	RU53	See test graph	See test graph	PAS
	Ant9	6435	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant7	6475	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant9	6475	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant7	6515	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant9	6515	26Tone	RU0	See test graph	See test graph	PAS
			52Tone	RU37	See test graph	See test graph	PAS
			106Tone	RU53	See test graph	See test graph	PAS
	Ant7	6535	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	6535	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant7	6695	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	6695	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant7	6855	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	6855	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant7	6875	26Tone	RU8	See test graph	See test graph	PAS

			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	6875	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant7	6895	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	6895	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant7	6995	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	6995	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant7	7115	26Tone	RU8	See test graph	See test graph	PAS
			52Tone	RU40	See test graph	See test graph	PAS
			106Tone	RU54	See test graph	See test graph	PAS
	Ant9	7115	26Tone	RU8	See test graph	See test graph	PAS
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			106Tone	RU54	See test graph	See test graph	PAS

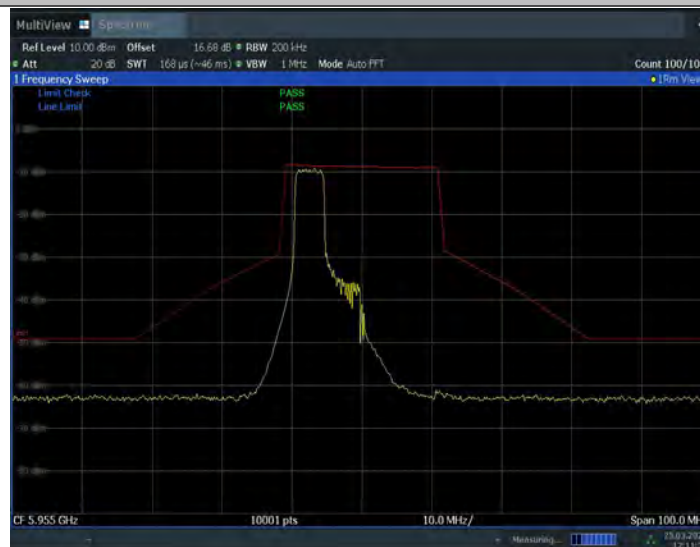
Test graphs as below:

11AX20MIMO_Ant7_5955_26Tone_RU0



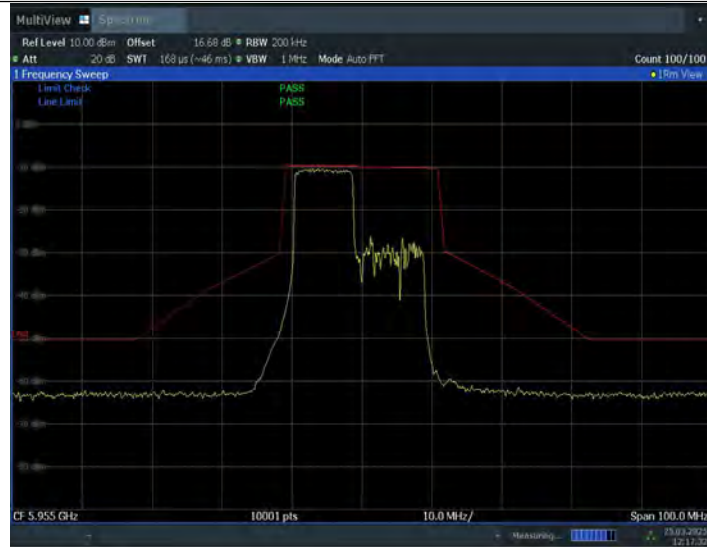
11:44:46 25.03.2025

11AX20MIMO_Ant7_5955_52Tone_RU37



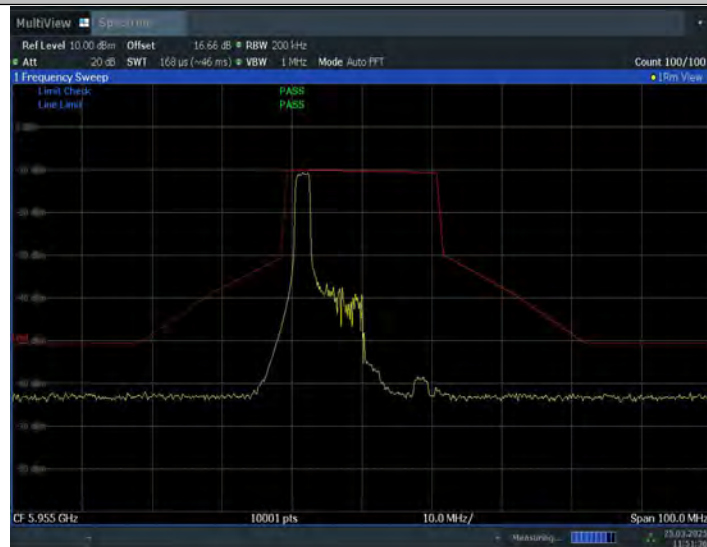
12:11:32 25.03.2025

11AX20MIMO_Ant7_5955_106Tone_RU53



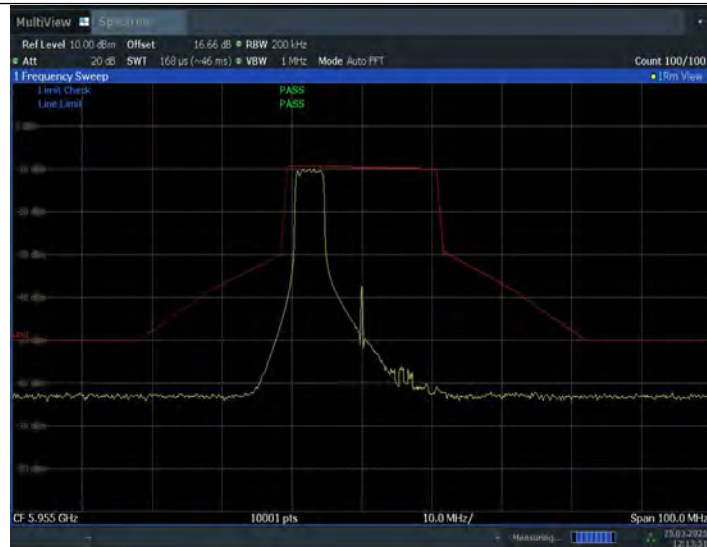
12:17:32 25.03.2025

11AX20MIMO_Ant9_5955_26Tone_RU0



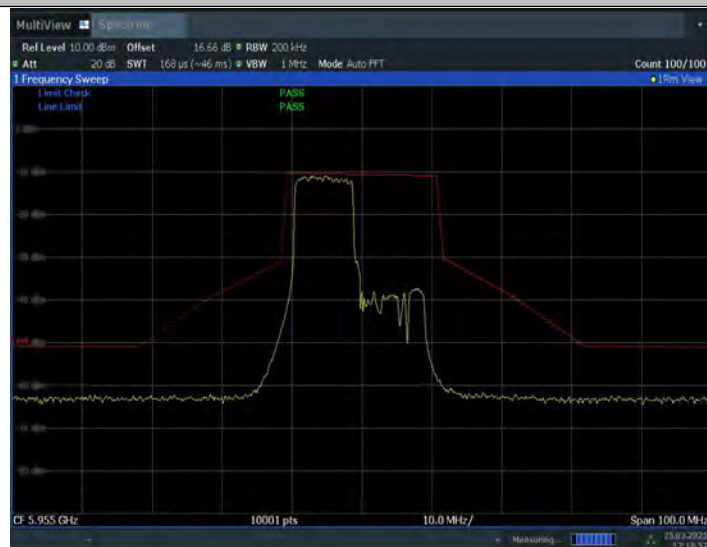
11:51:36 25.03.2025

11AX20MIMO_Ant9_5955_52Tone_RU37



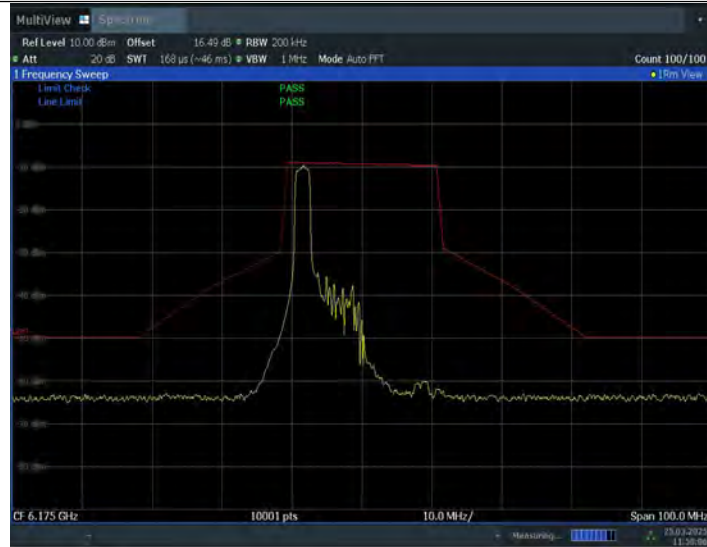
12:13:32 25.03.2025

11AX20MIMO_Ant9_5955_106Tone_RU53



12:19:32 25.03.2025

11AX20MIMO_Ant7_6175_26Tone_RU0



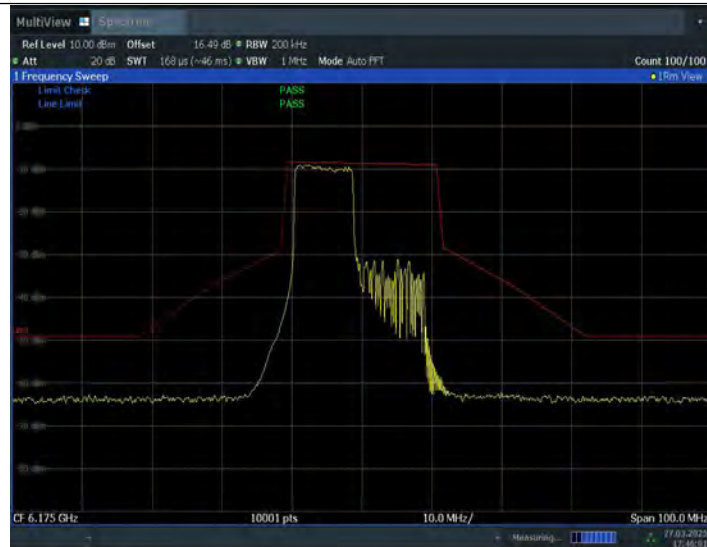
11:58:07 25.03.2025

11AX20MIMO_Ant7_6175_52Tone_RU37

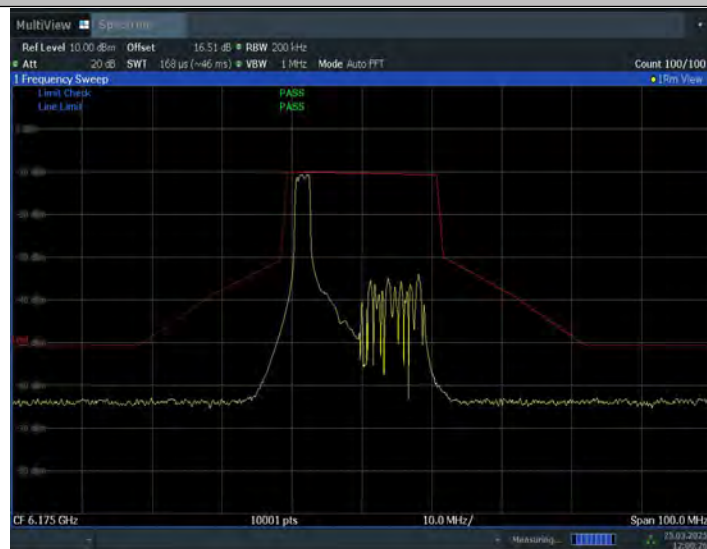


16:25:23 27.03.2025

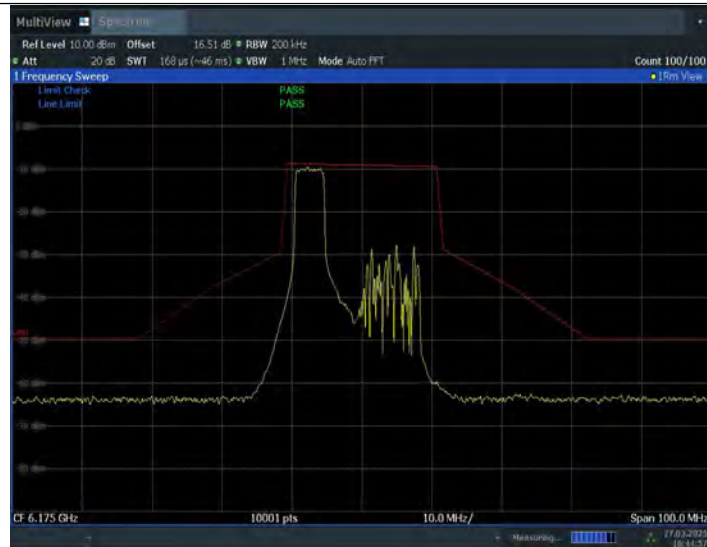
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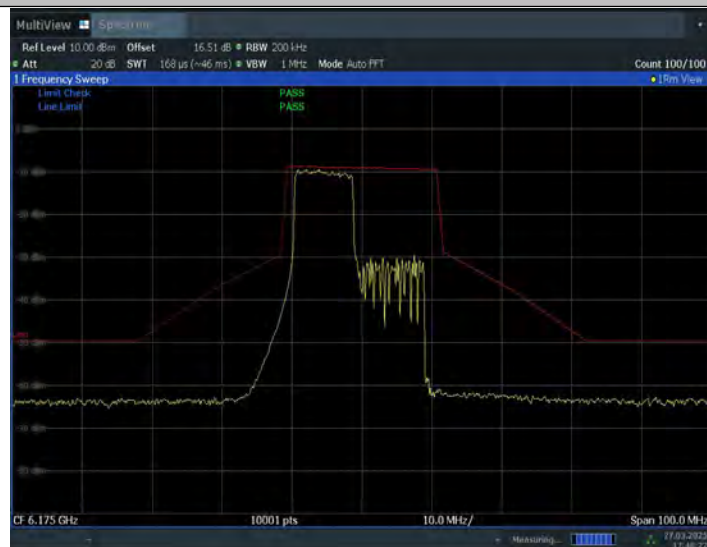
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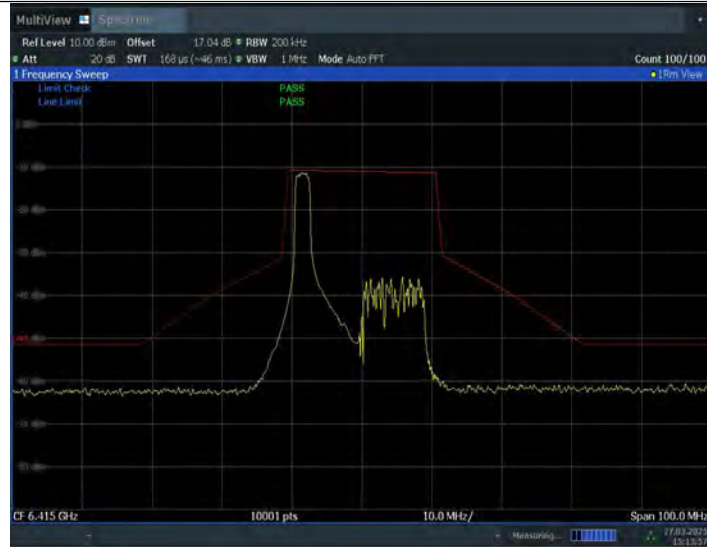
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11AX20MIMO_Ant9_6175_106Tone_RU53

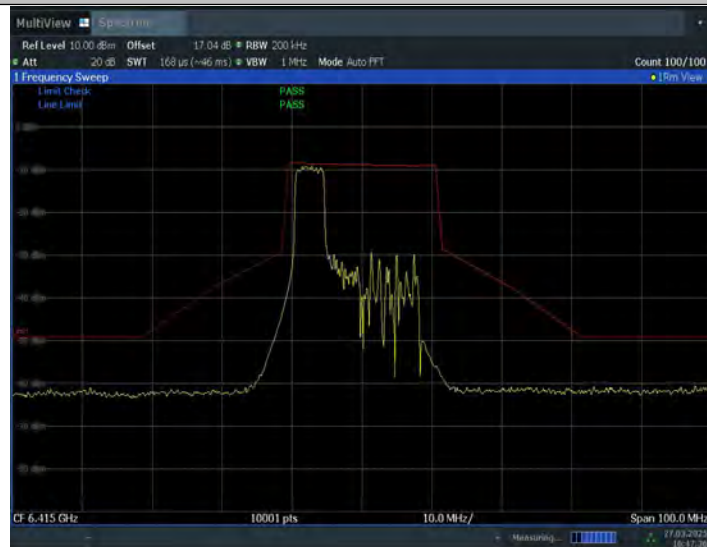


11AX20MIMO_Ant7_6415_26Tone_RU0



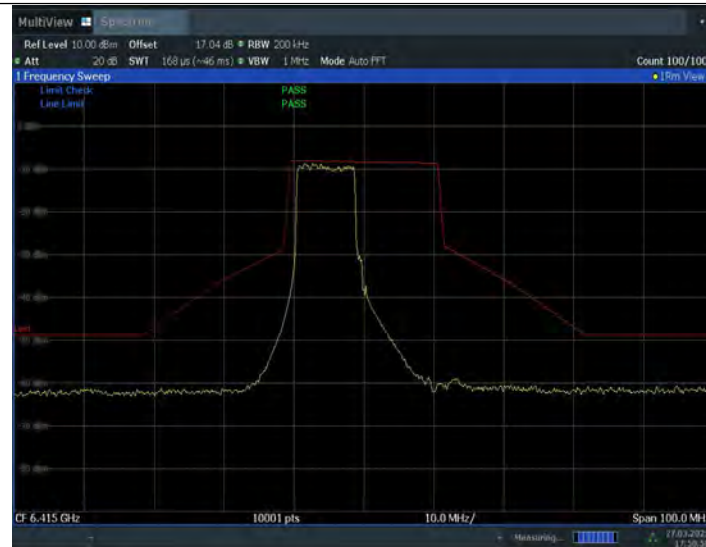
15:13:37 27.03.2025

11AX20MIMO_Ant7_6415_52Tone_RU37



16:47:36 27.03.2025

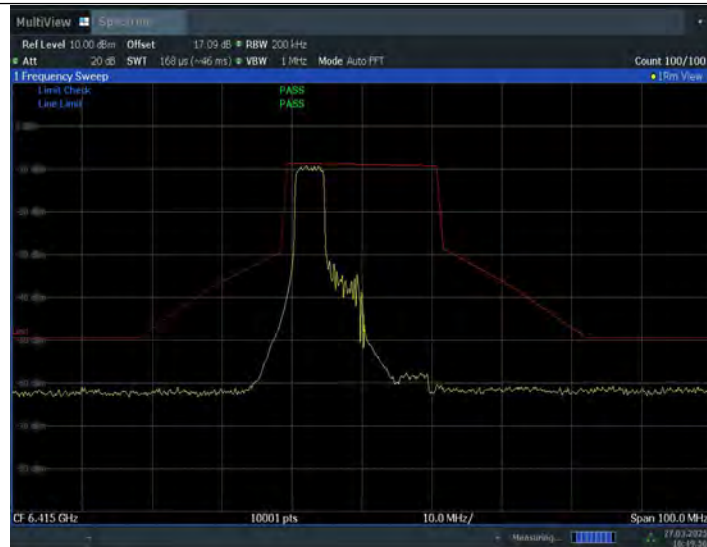
11AX20MIMO_Ant7_6415_106Tone_RU53



11AX20MIMO_Ant9_6415_26Tone_RU0

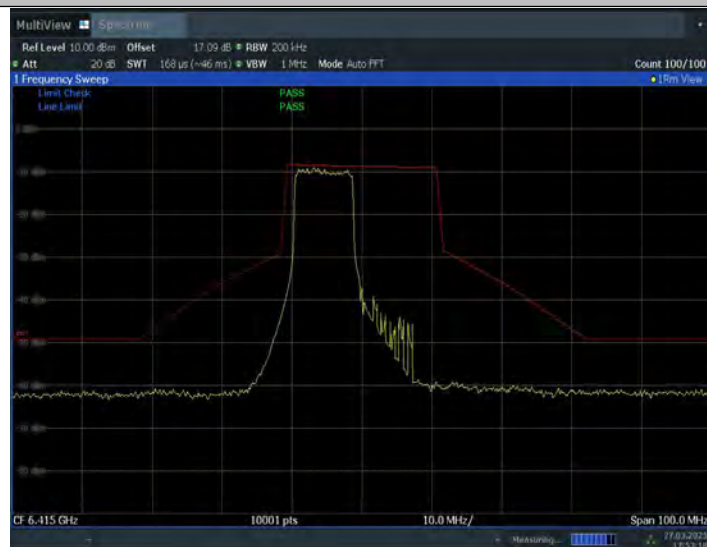


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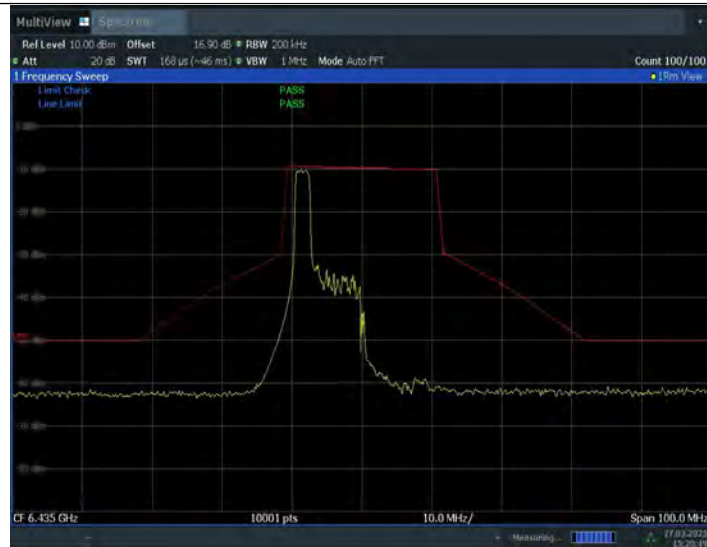
16:49:57 27.03.2025

11AX20MIMO_Ant9_6415_106Tone_RU53



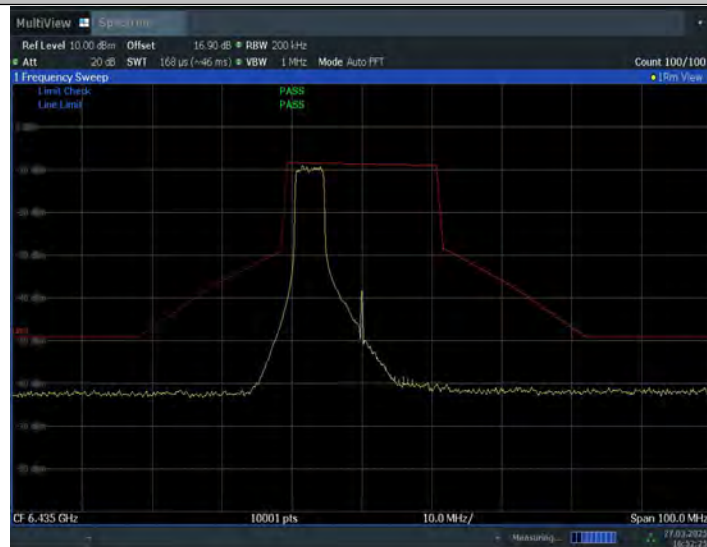
17:53:19 27.03.2025

11AX20MIMO_Ant7_6435_26Tone_RU0



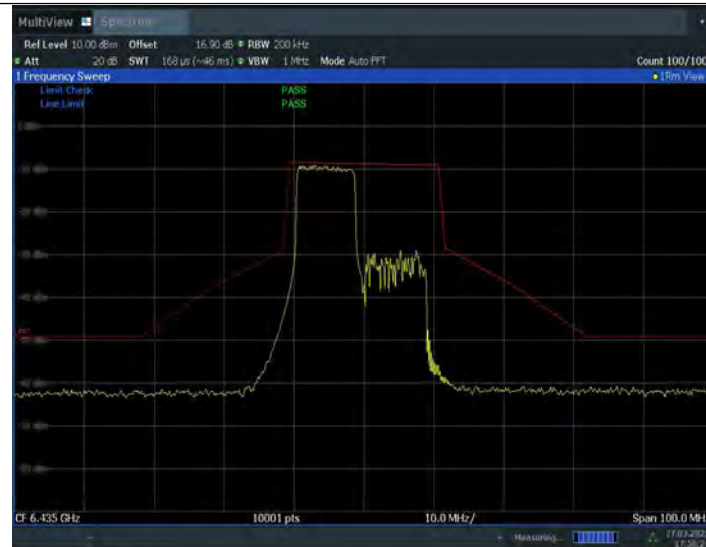
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16:52:25 27.03.2025

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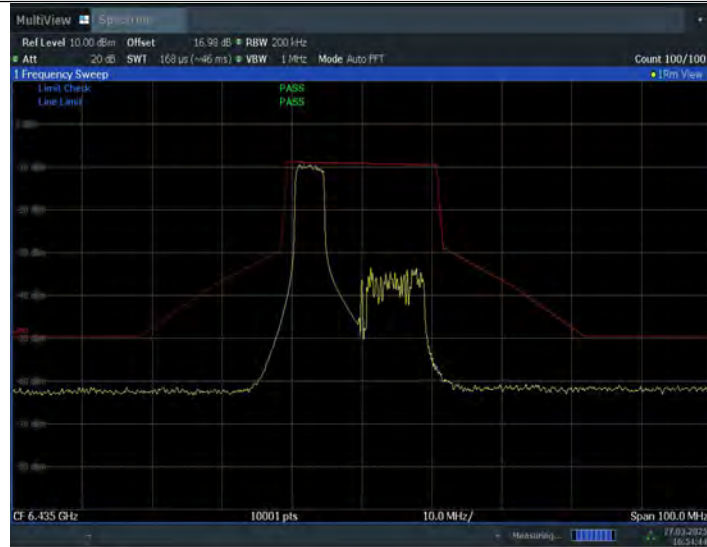
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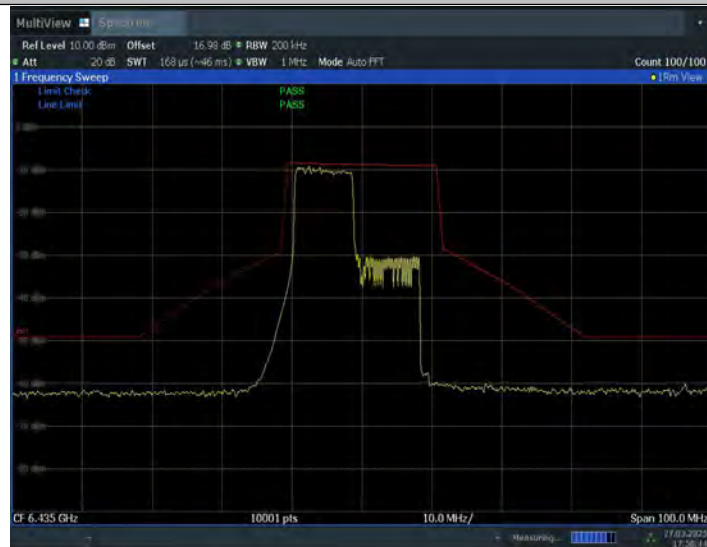
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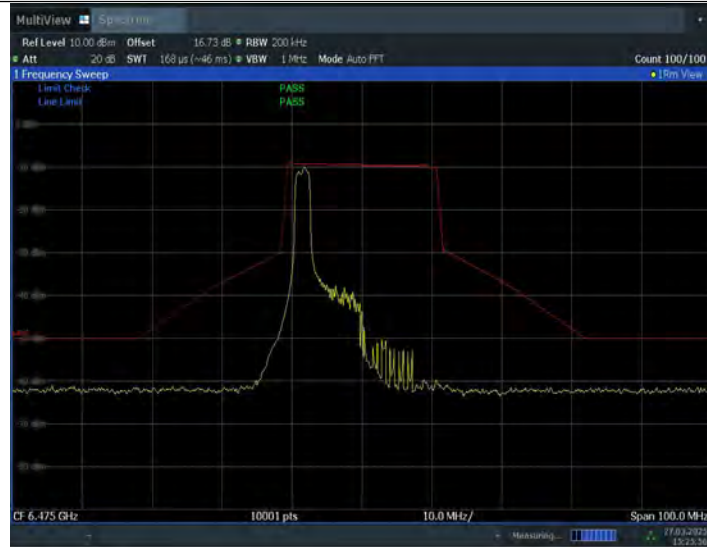
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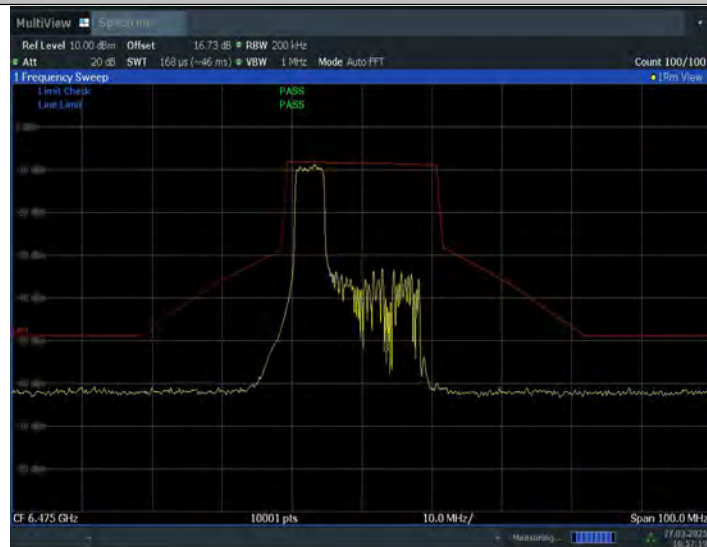
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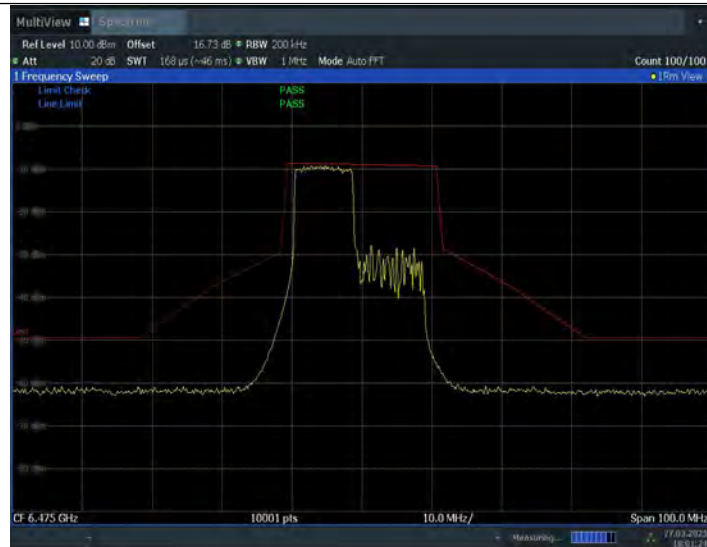
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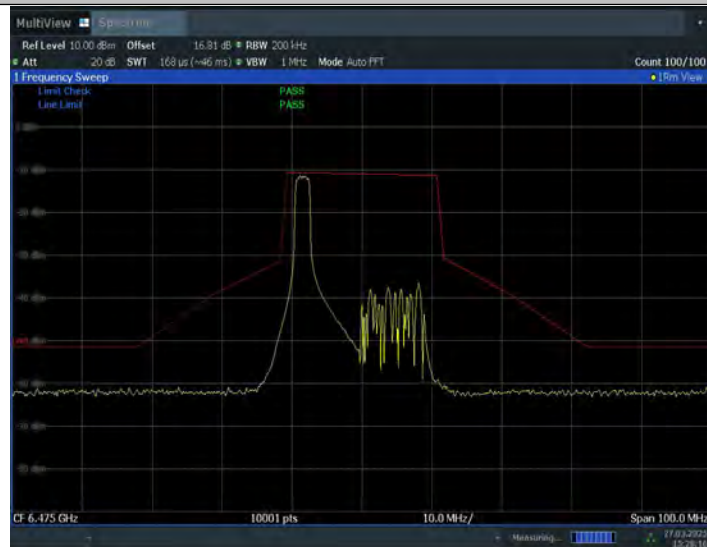
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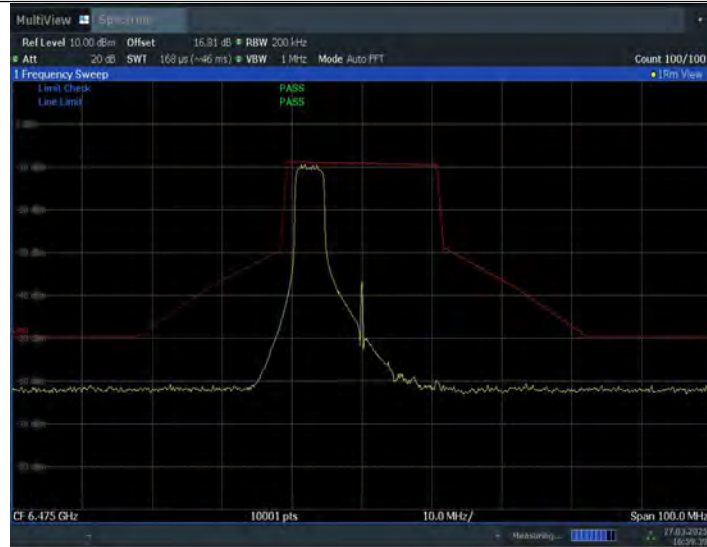
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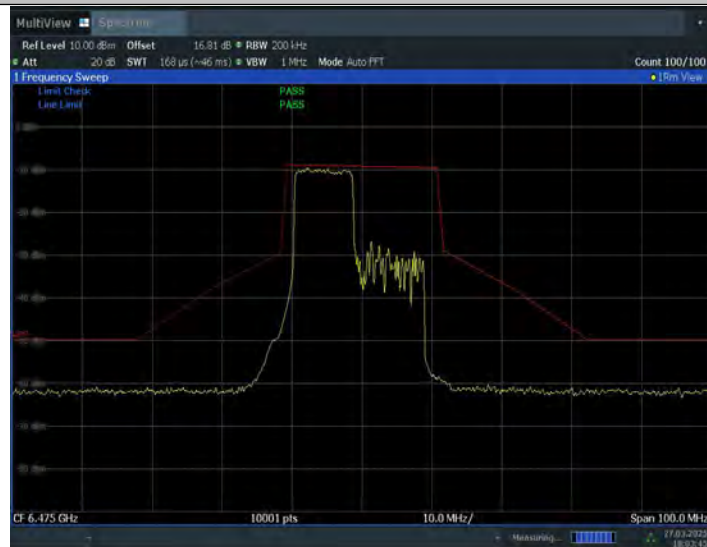
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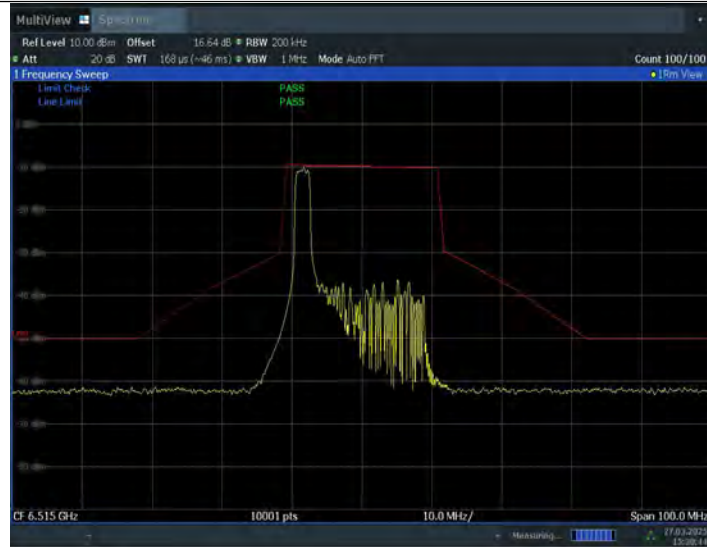
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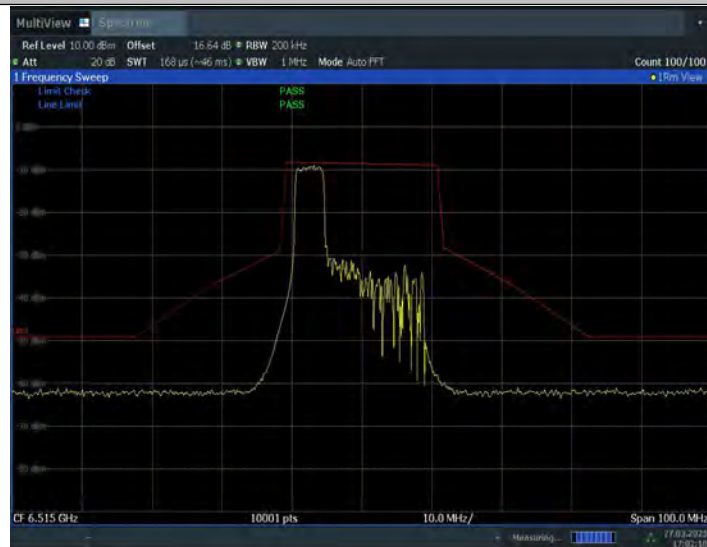
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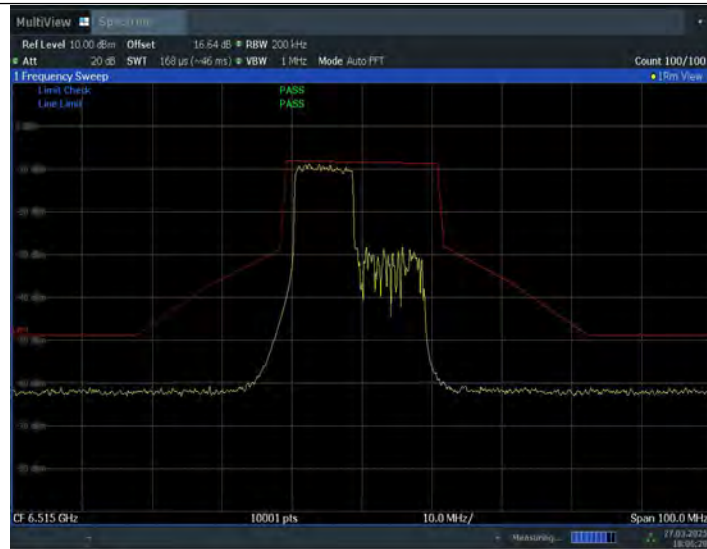
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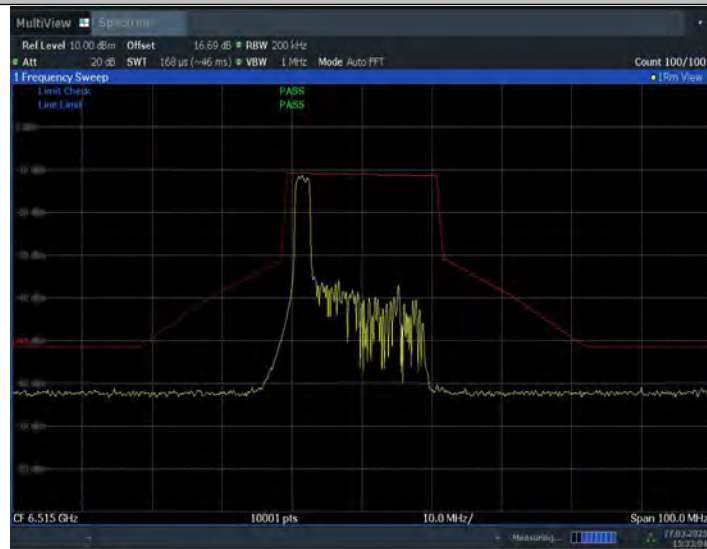
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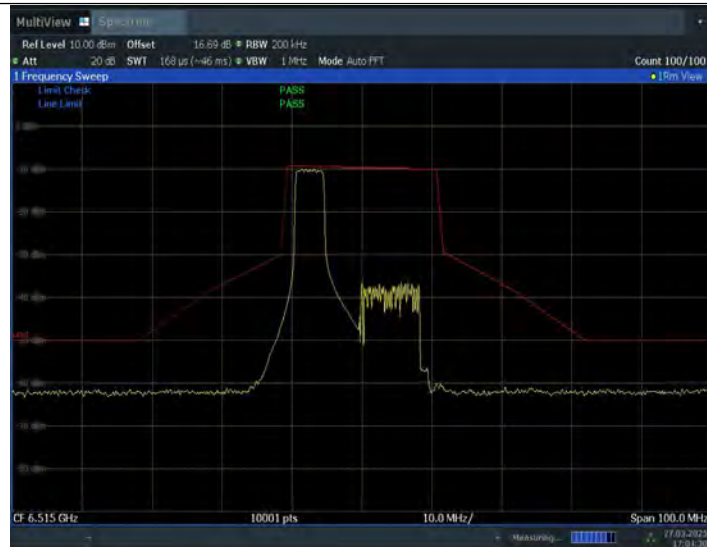
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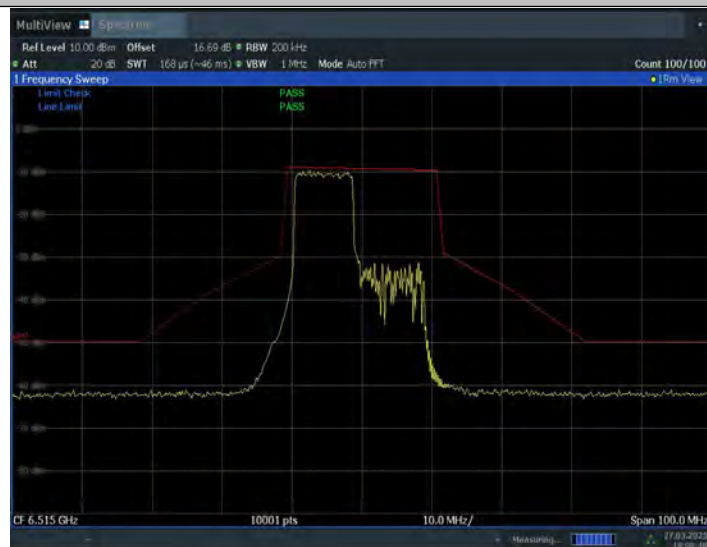


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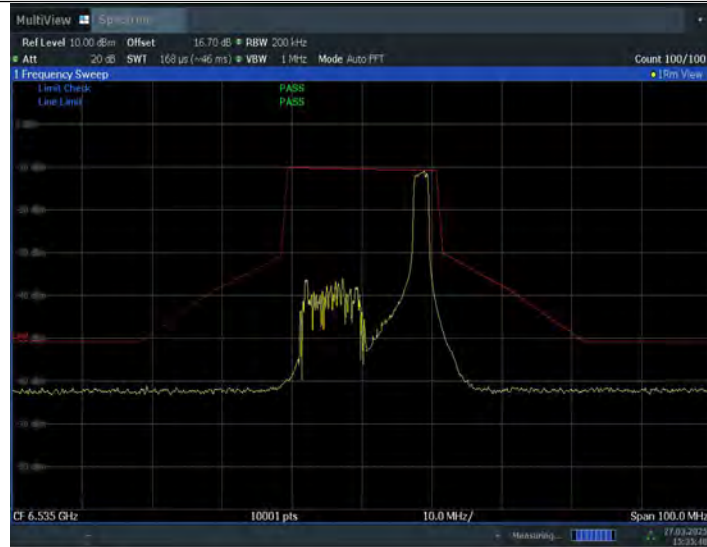
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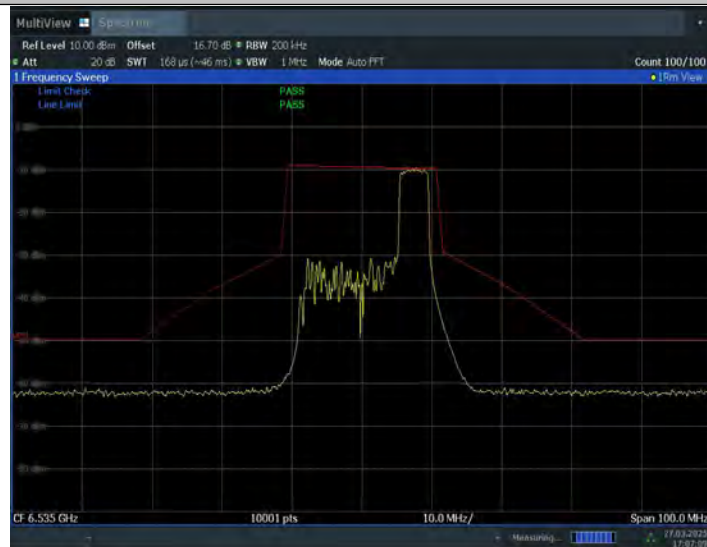


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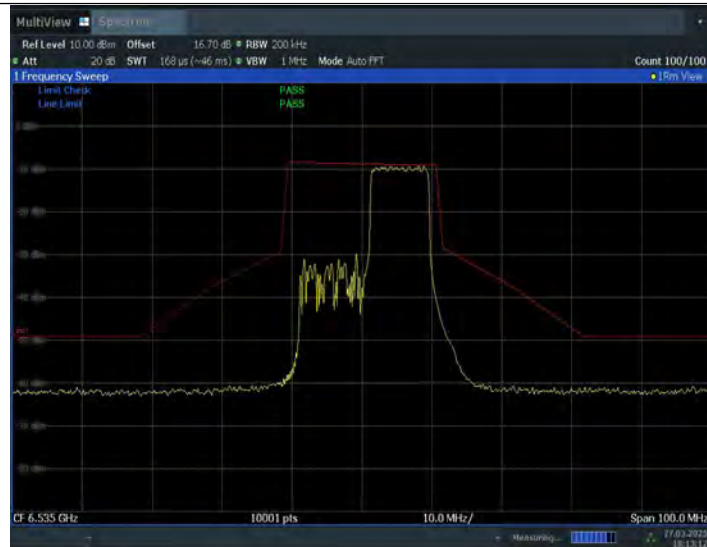
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11AX20MIMO_Ant7_6535_52Tone_RU40



17:07:09 27.03.2025

11AX20MIMO_Ant7_6535_106Tone_RU54



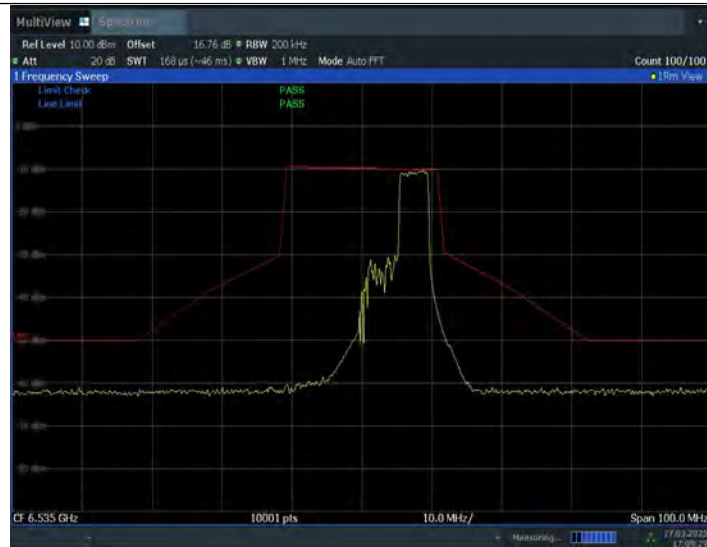
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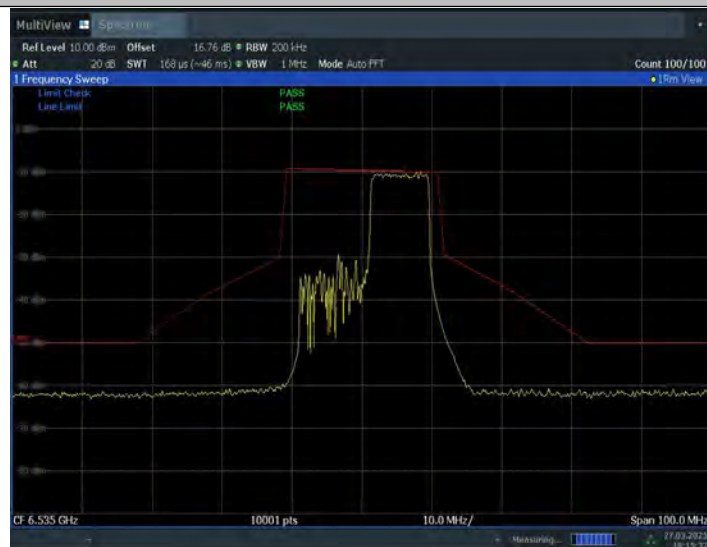
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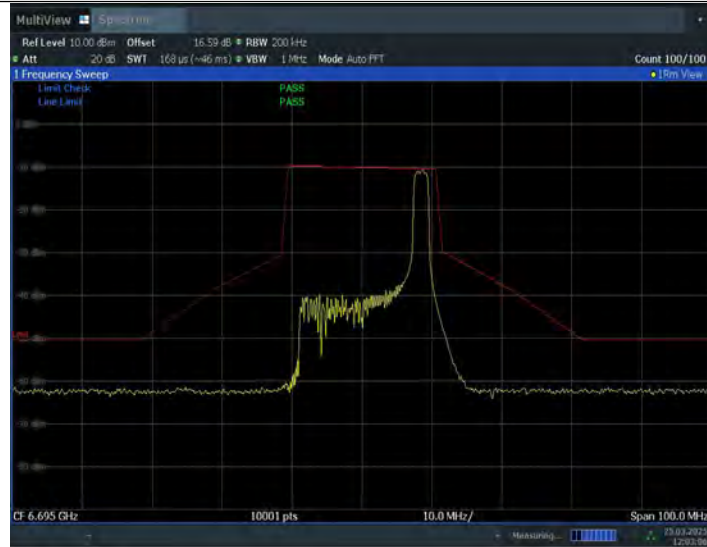
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11AX20MIMO_Ant9_6535_106Tone_RU54



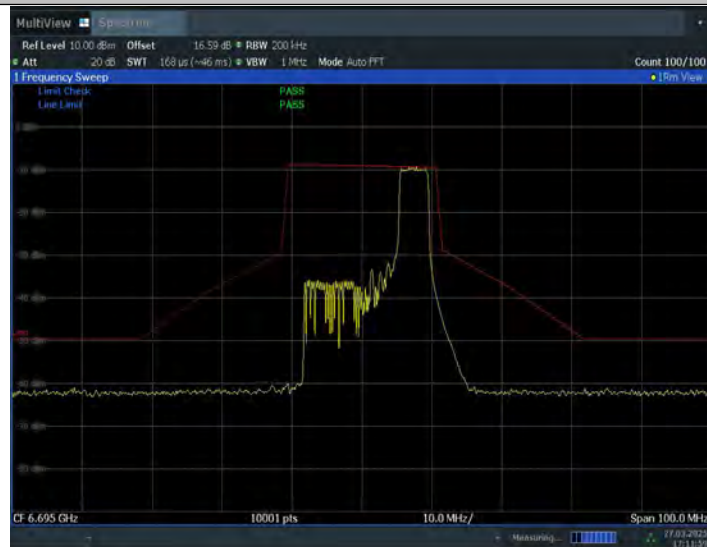
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11AX20MIMO_Ant7_6695_26Tone_RU8



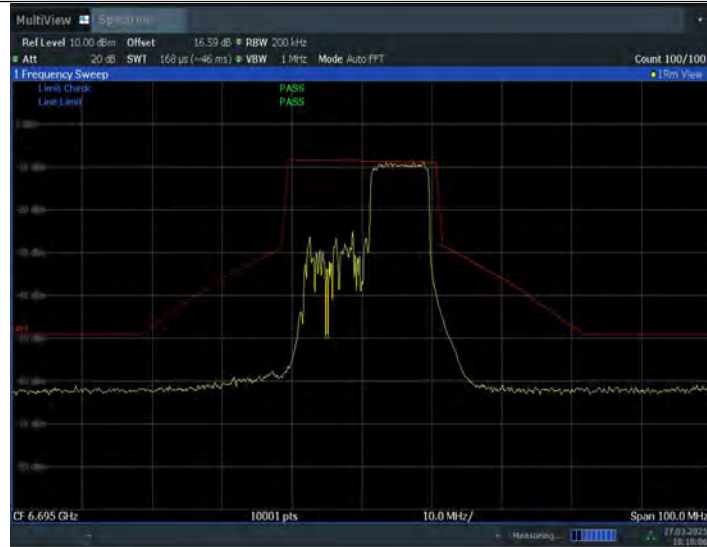
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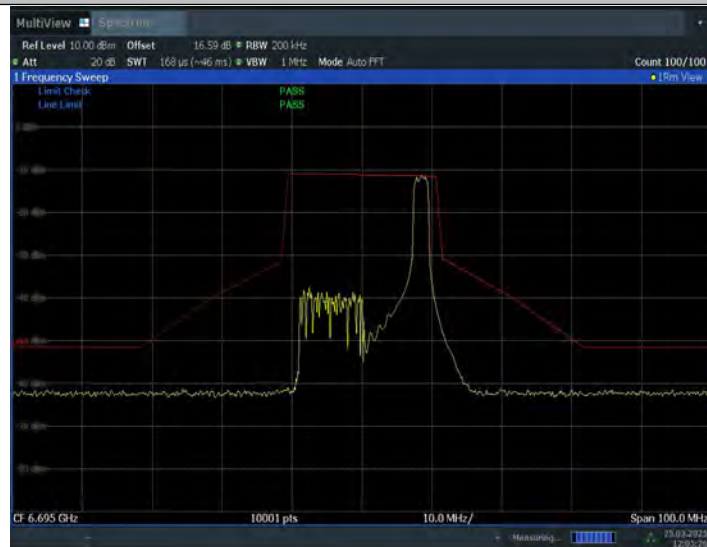
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11AX20MIMO_Ant7_6695_106Tone_RU54



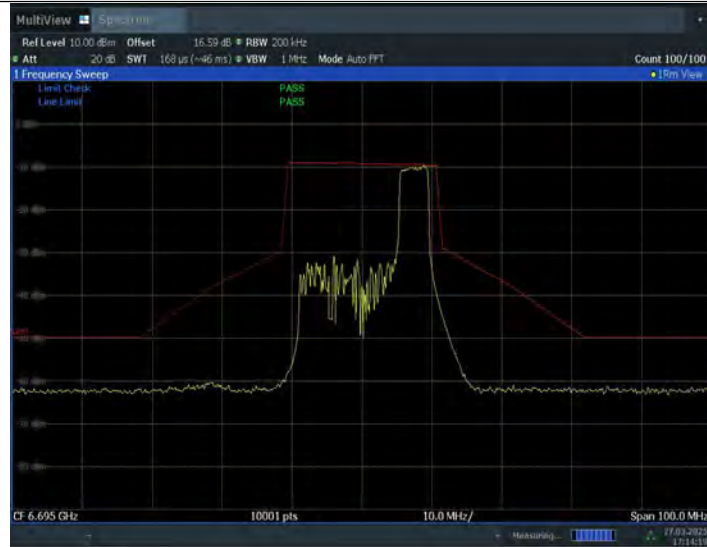
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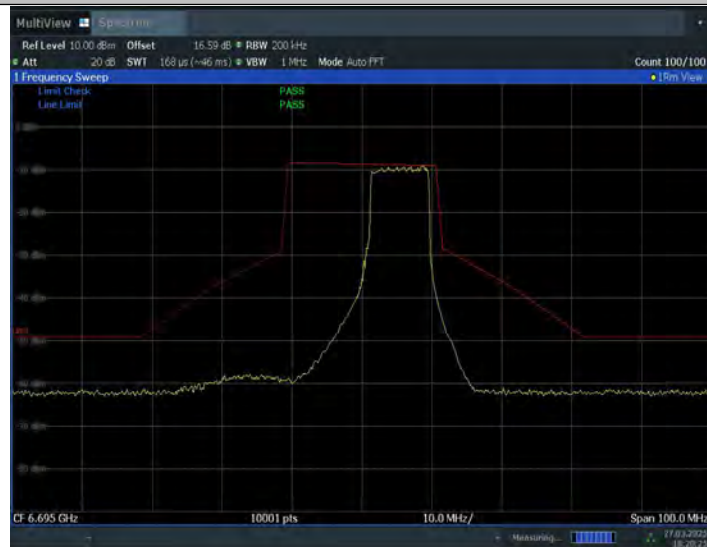
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17:14:19 27.03.2025

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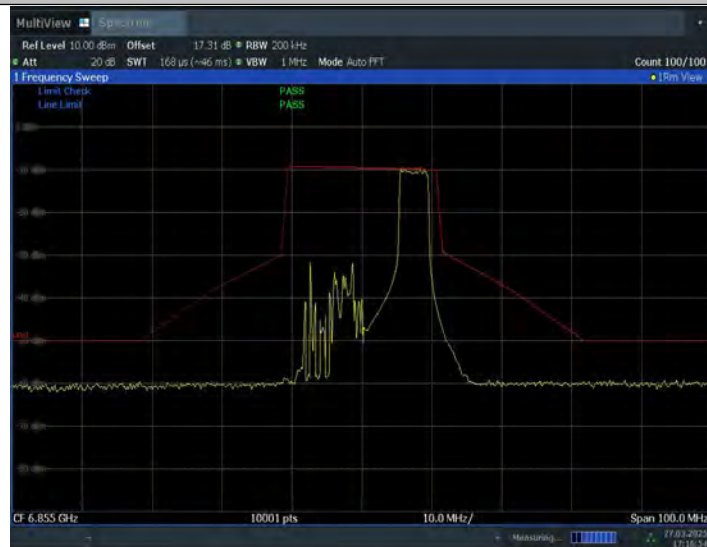


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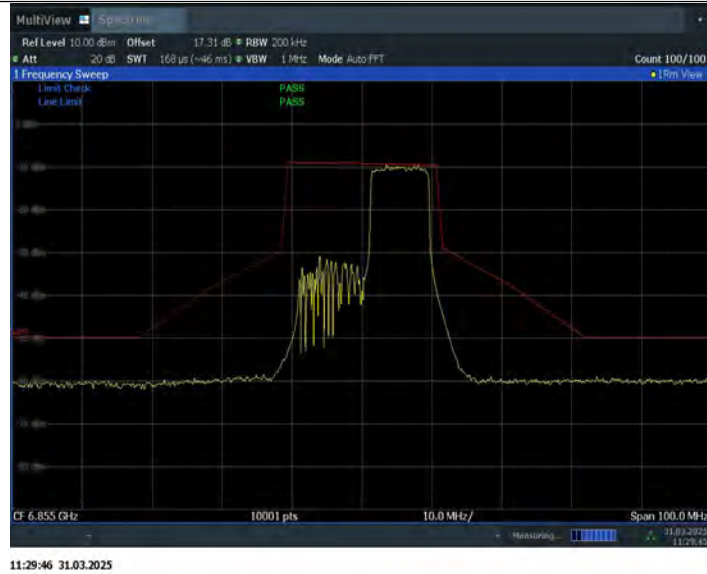
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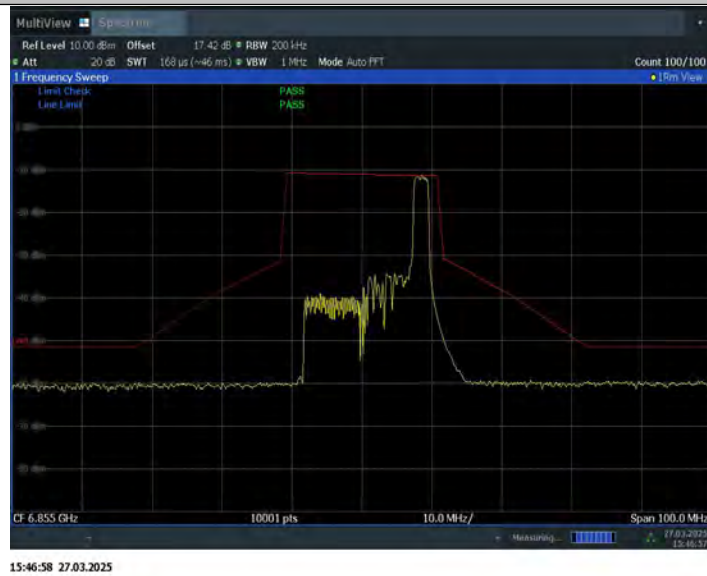
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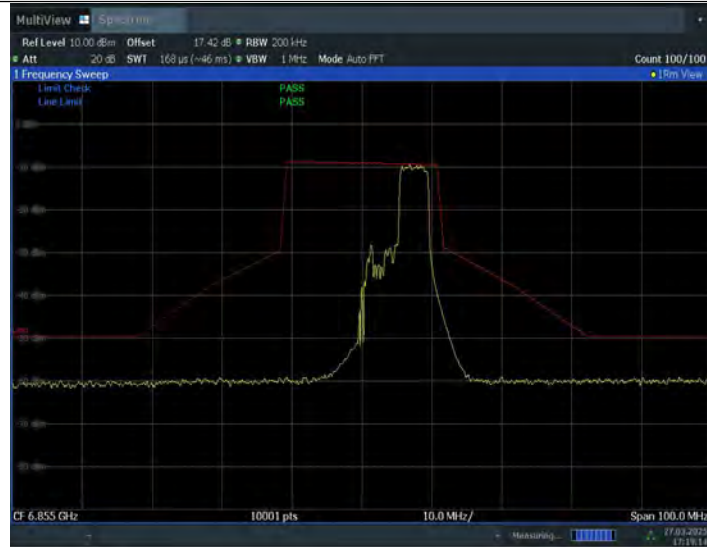
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11AX20MIMO_Ant9_6855_26Tone_RU8

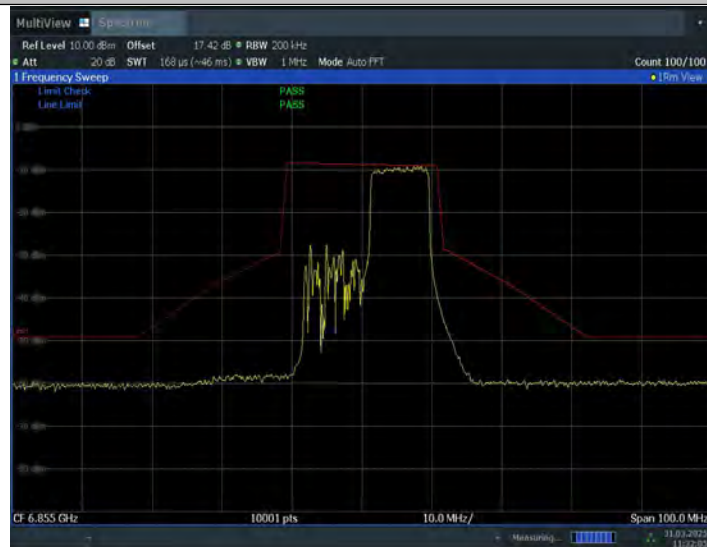


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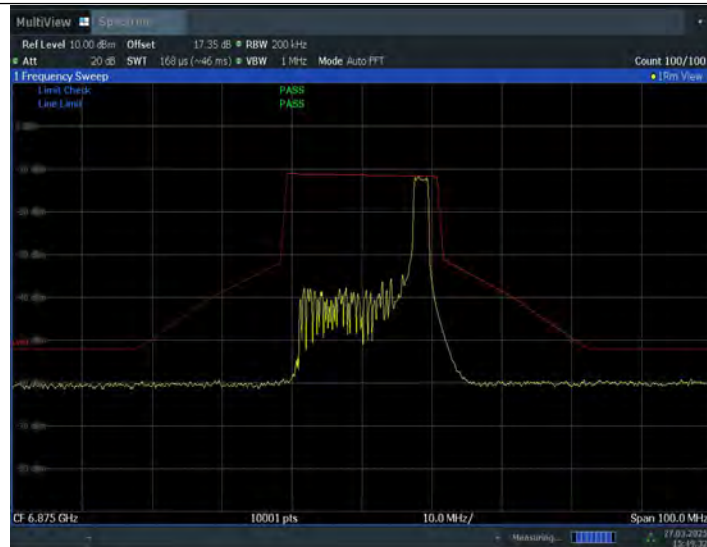
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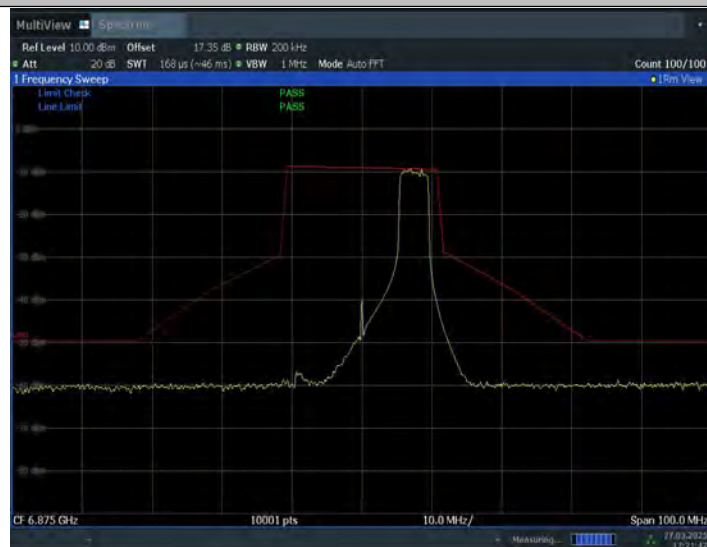
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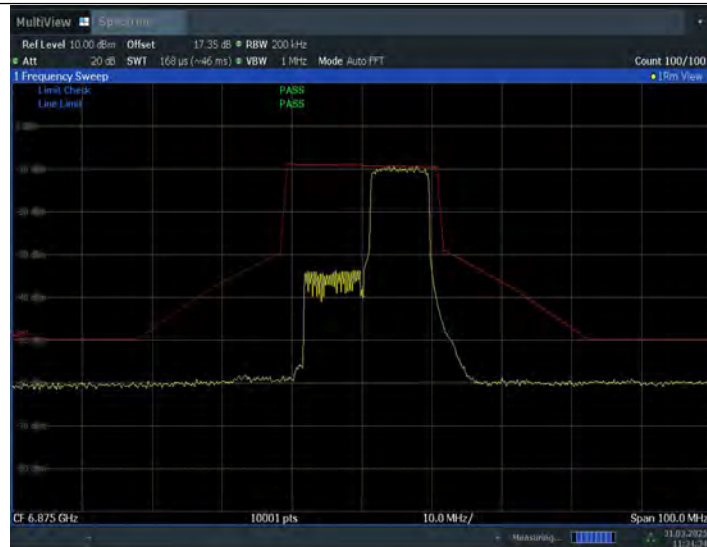
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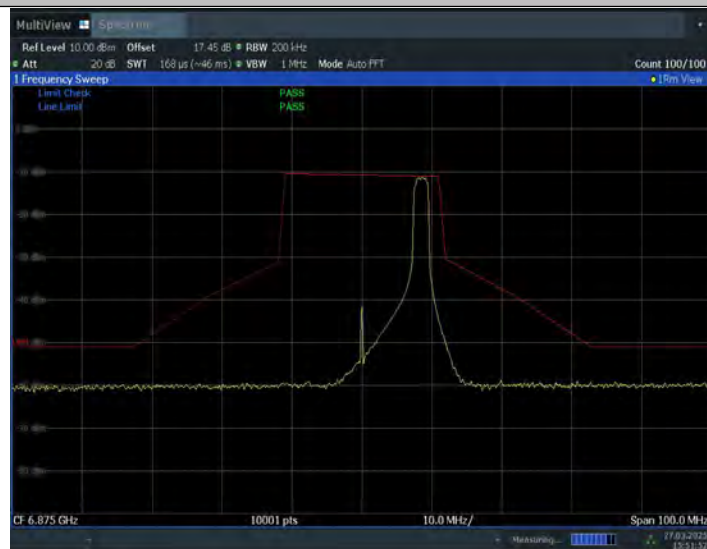


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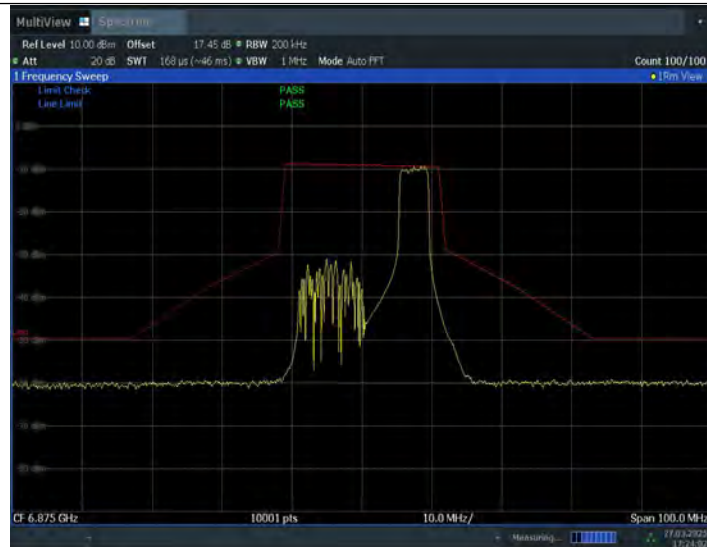
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11AX20MIMO_Ant9_6875_26Tone_RU8

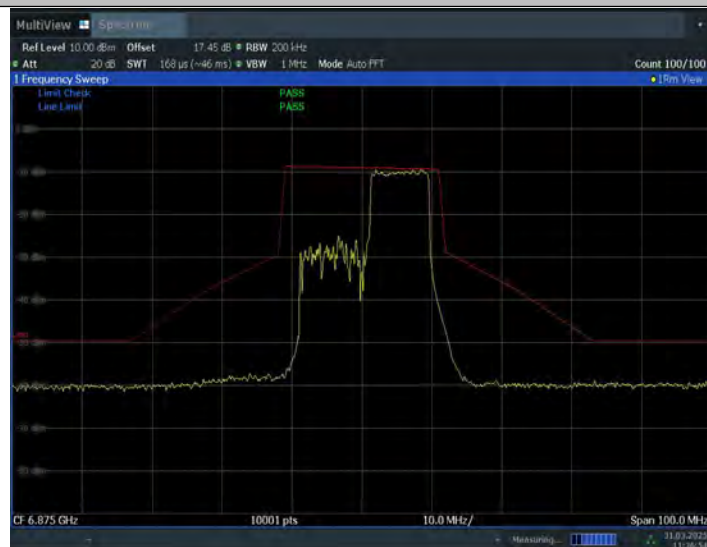


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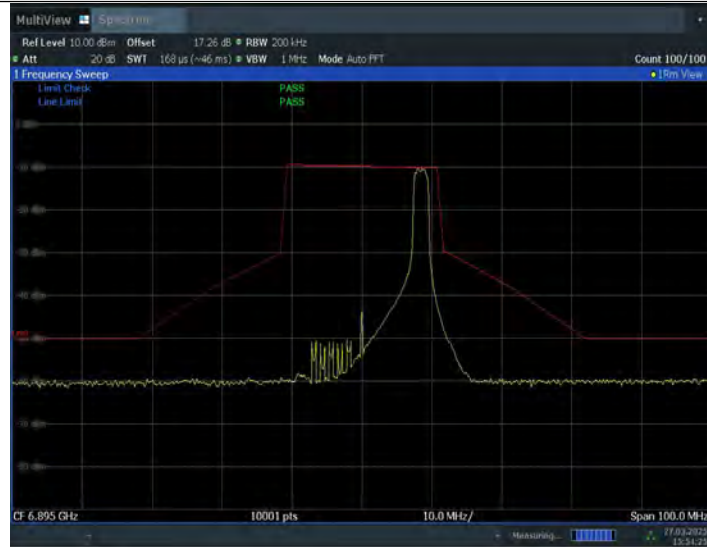
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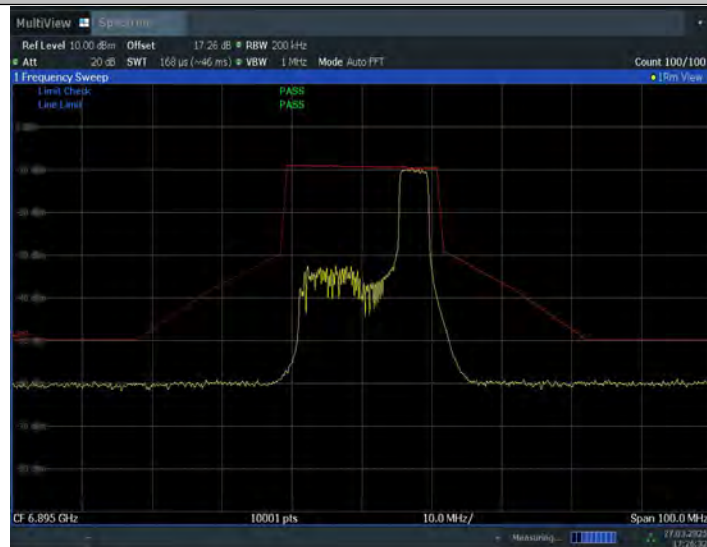
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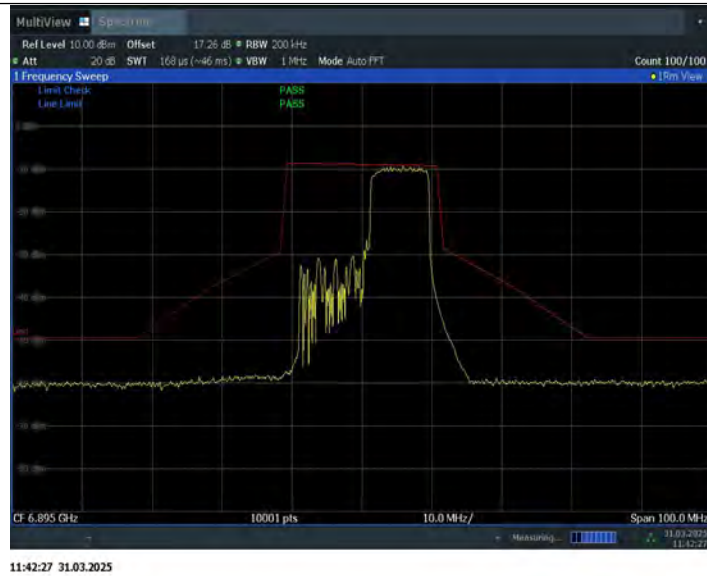
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17:26:33 27.03.2025

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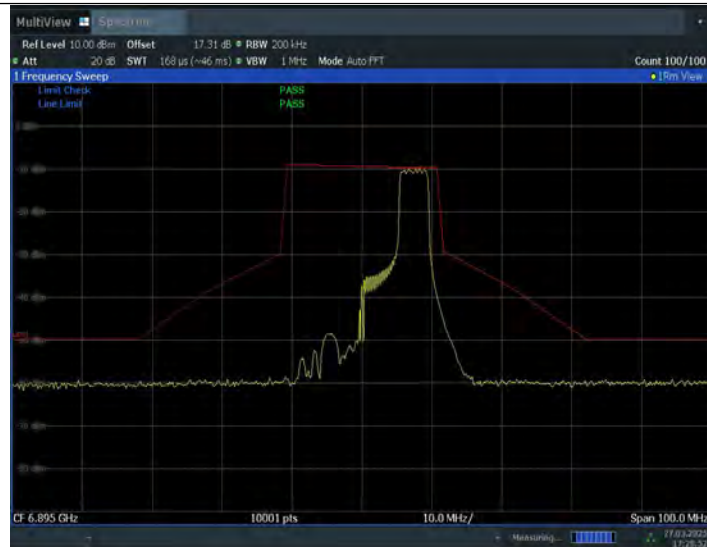
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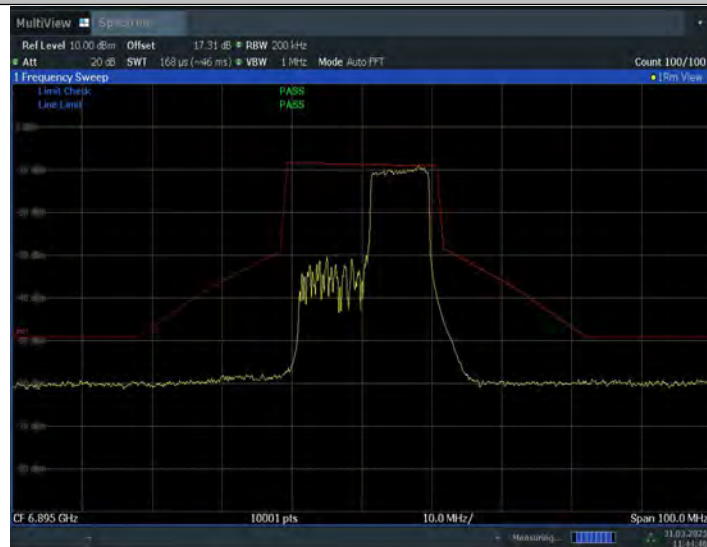
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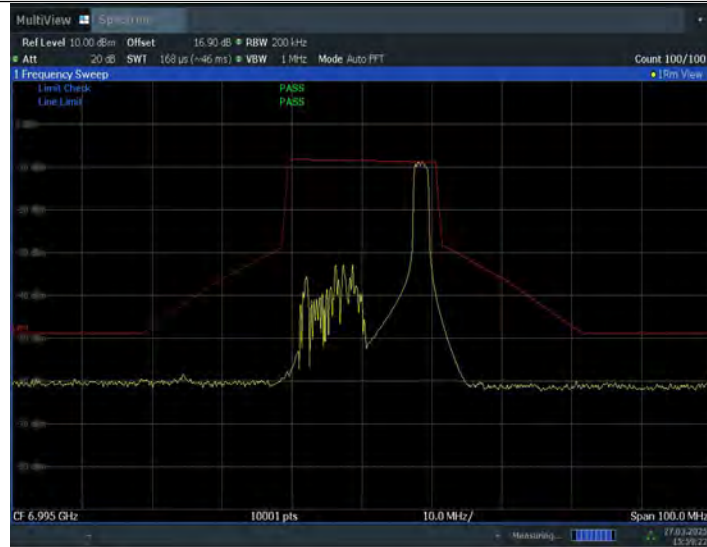
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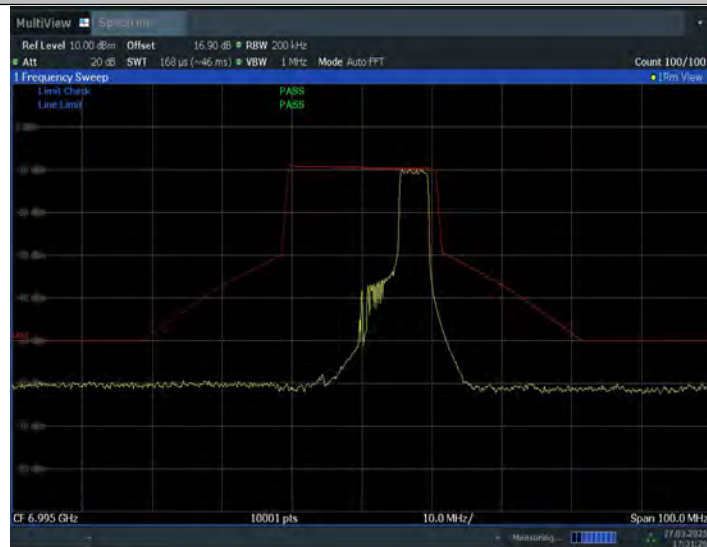
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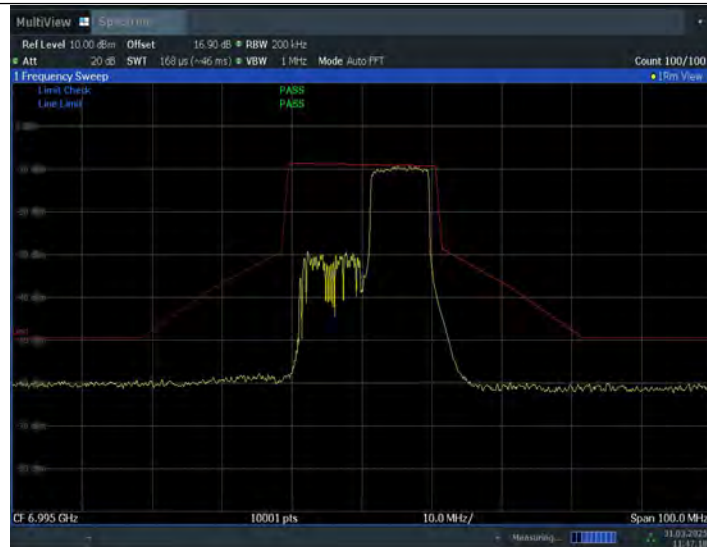
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17:31:27 27.03.2025

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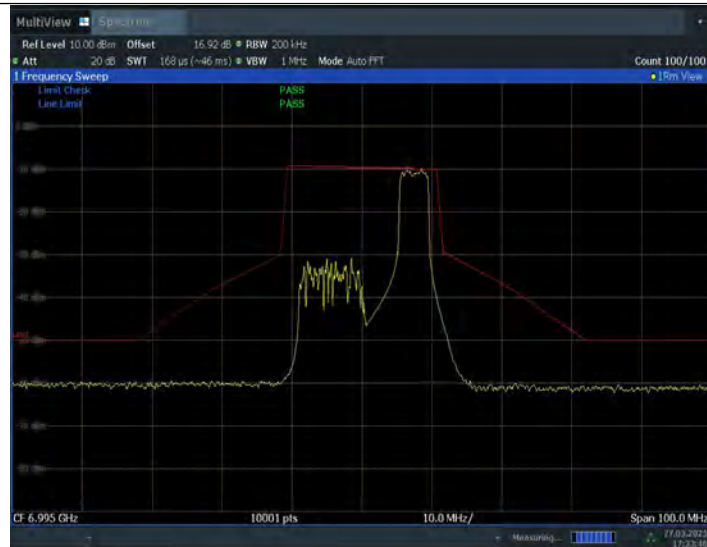
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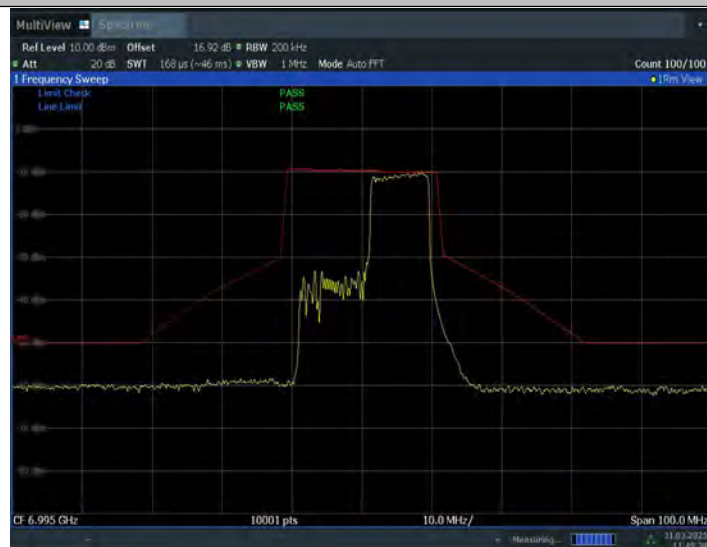
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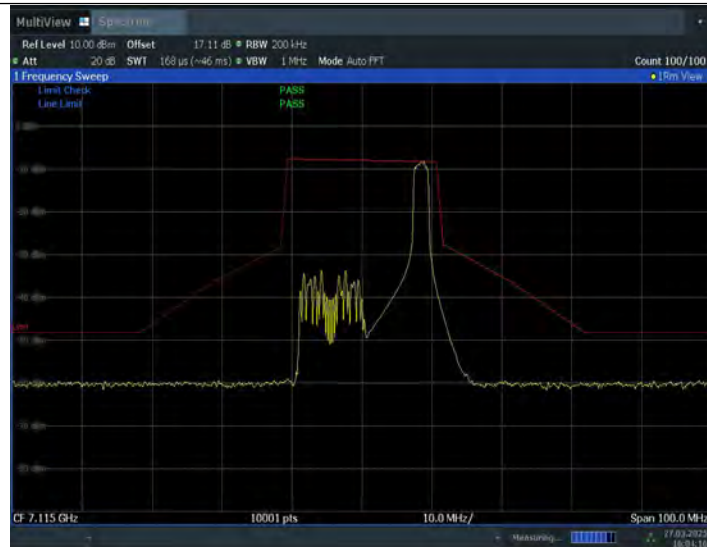
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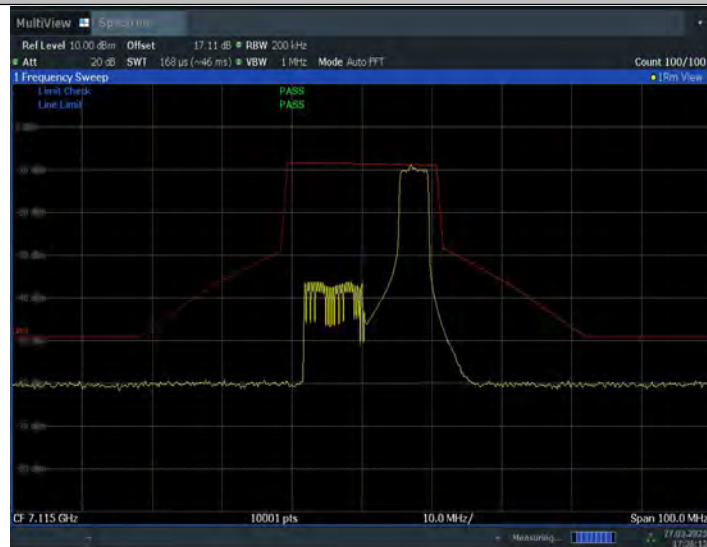
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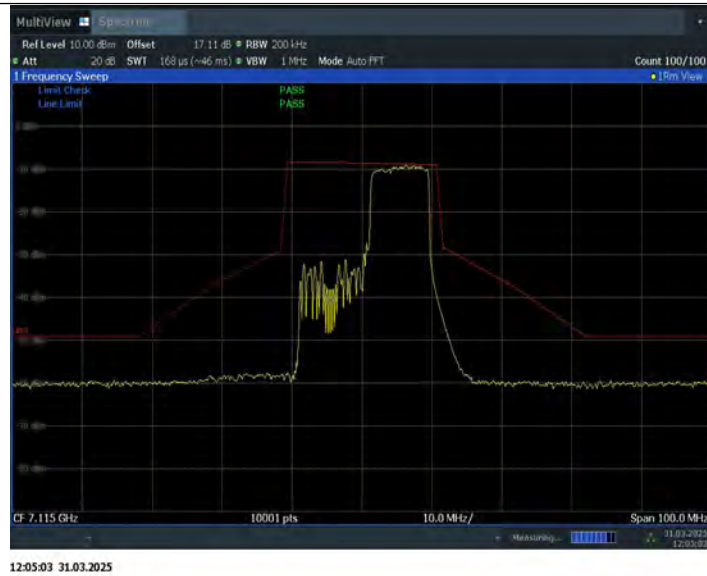
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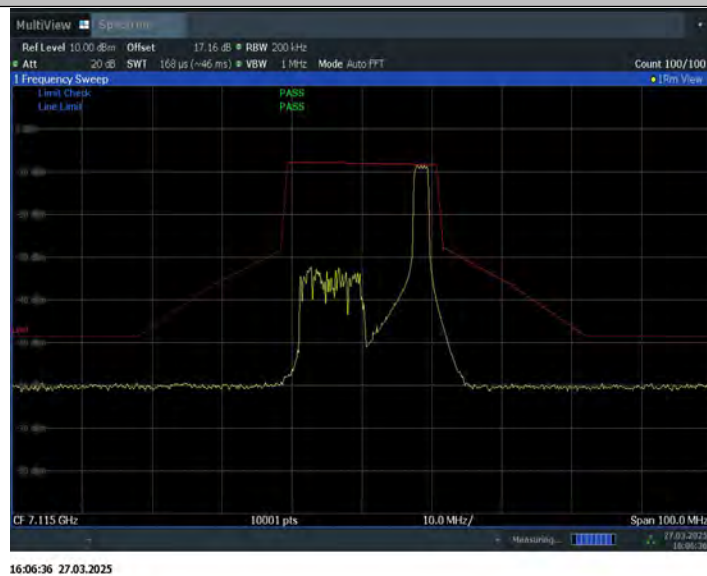


17:36:16 27.03.2025

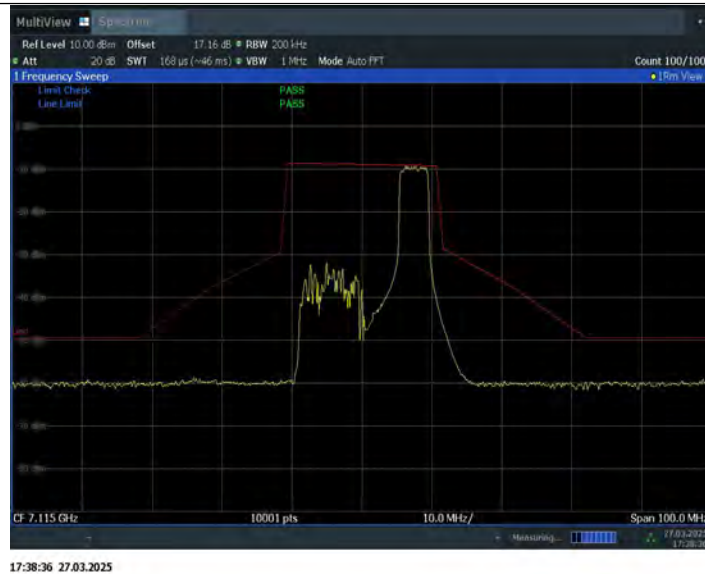
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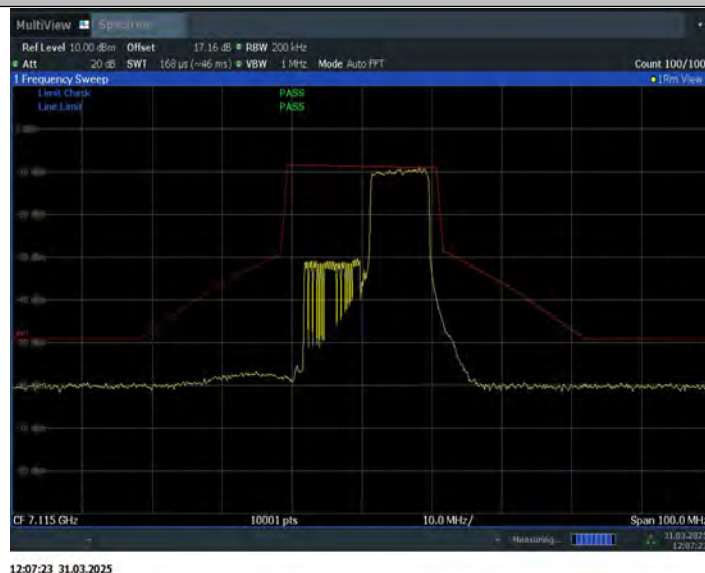
11AX20MIMO_Ant9_7115_26Tone_RU8



11AX20MIMO_Ant9_7115_52Tone_RU40



11AX20MIMO_Ant9_7115_106Tone_RU54



Conclusion: PASS

A.8. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

Measurement Limits:

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP or a indoor AP, but the power level is limited to a maximum of 24 dBm EIRP. If a client has the flexibility to connect to both APs, verification is needed to show that it can distinguish between the two configurations and then control the power levels accordingly.

Test Procedure:

1. Atten 1 should be set high, then adjust Atten 2 to Std Power AP, so the Client will only associate with the Std Power AP.
2. Configure the client and APs so that they associate and start sending data(stream data).
3. Transmission between Client and Std Power AP is verified by measuring Client RF power using

SA-2 method from C63.10.

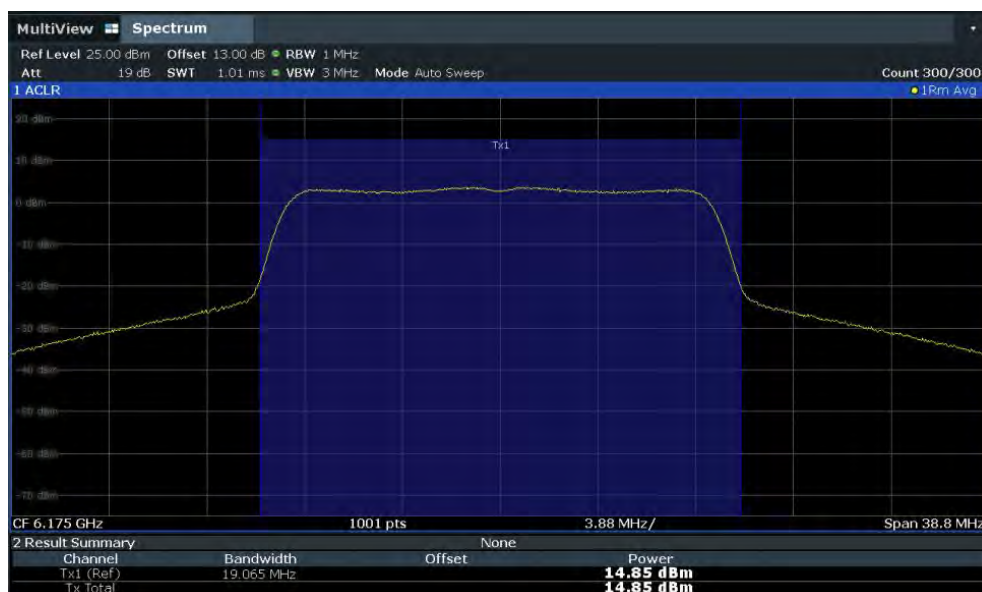
4. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation, the Client should associate with the indoor AP.

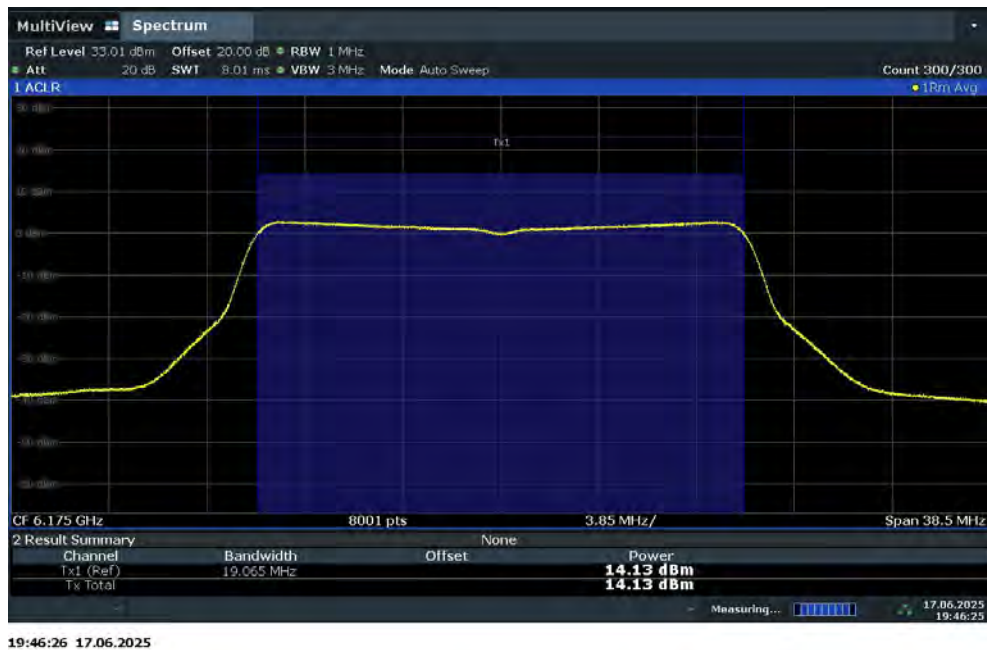
5. Transmission between Client and indoor AP is verified by measuring Client RF power using the same method mentioned in this paragraph. it must not be greater than 24 dBm EIRP.

Note: When connecting to an AP, the dual client will identify the type of the AP by CLI tool instruction, and uses corresponding power parameters based on the AP type. In this case, the power above is the same whether connected to a Standard Access Point or a Low Power Indoor Access Point.

Measurement Results:

Standard Power	Fre (MHz)	BW (MHz)	Chain	Client Tx Power (dBm)	Duty Cycle (%)	Antenna Gain (dBi)	Client Tx Power EIRP (dBm)
Standard Power	6175	20	Ant 7	14.85	90	-5.82	9.49
Low Power				14.13	90	-5.82	8.77





19:46:26 17.06.2025

Conclusion: PASS

A.9. Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point (APC)

Measurement Limits:

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power.

Test Procedure:

Configure the Client and AP to associate and send data (stream data). Client is configured to transmit at following power levels:

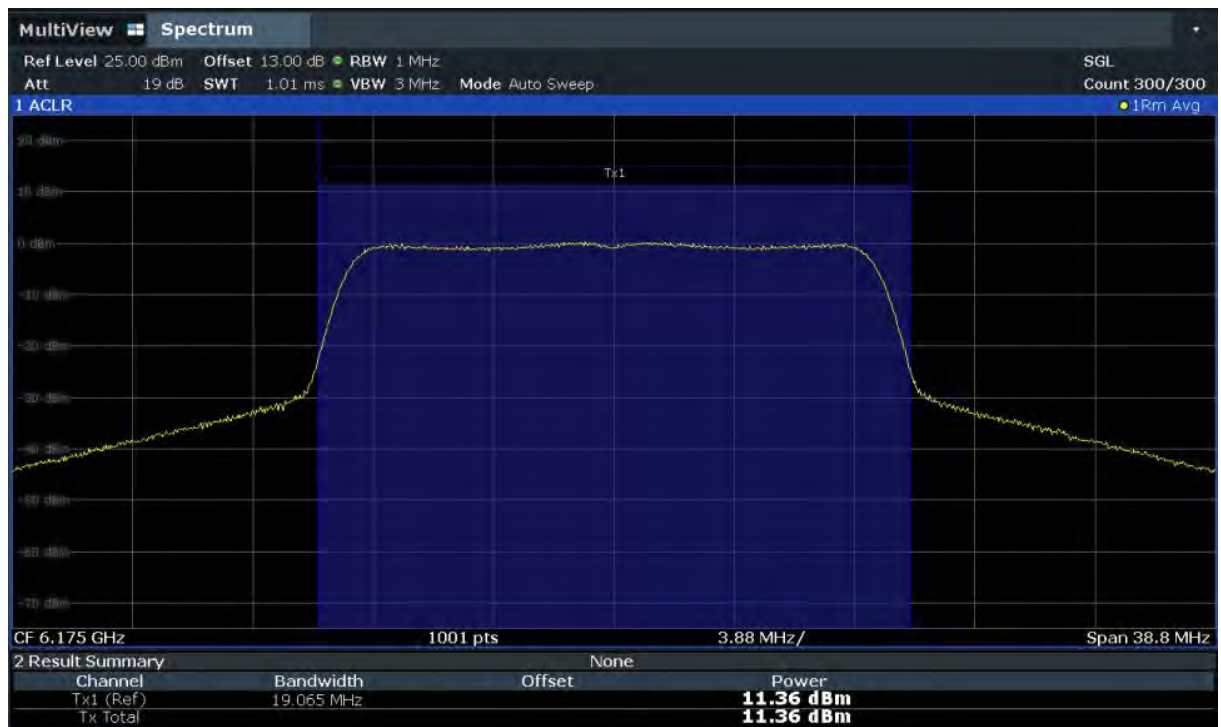
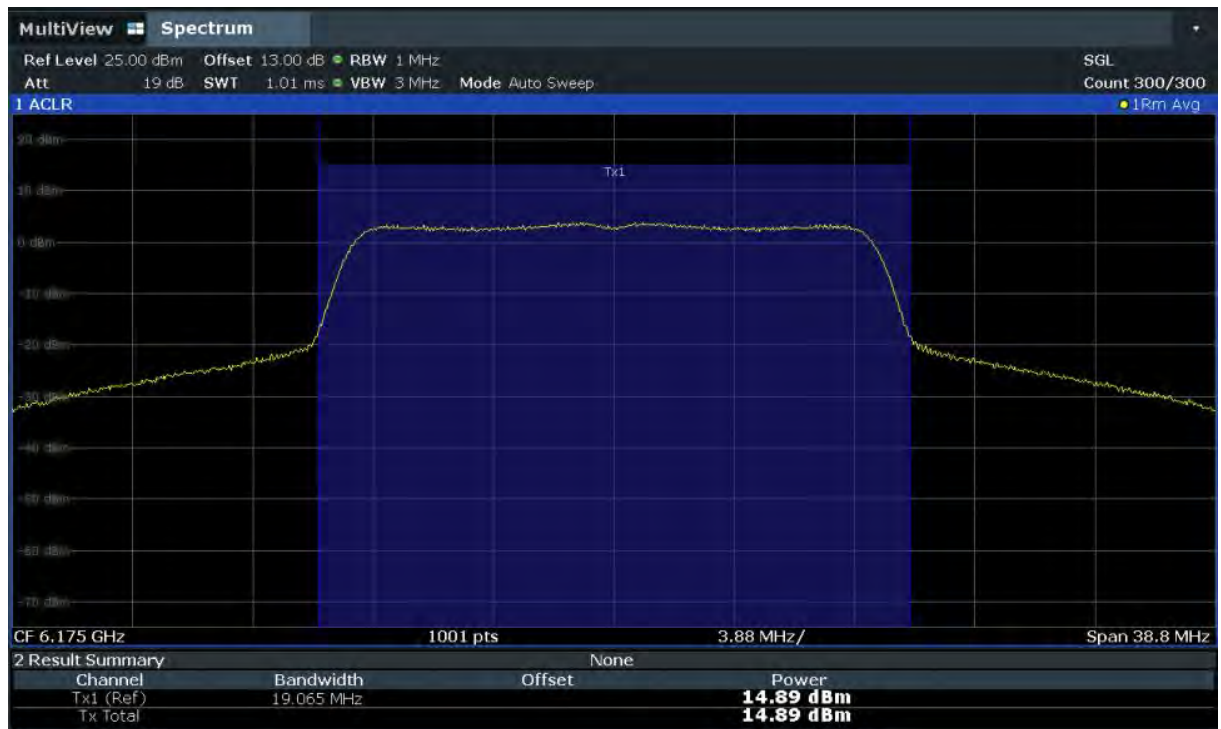
Highest power level

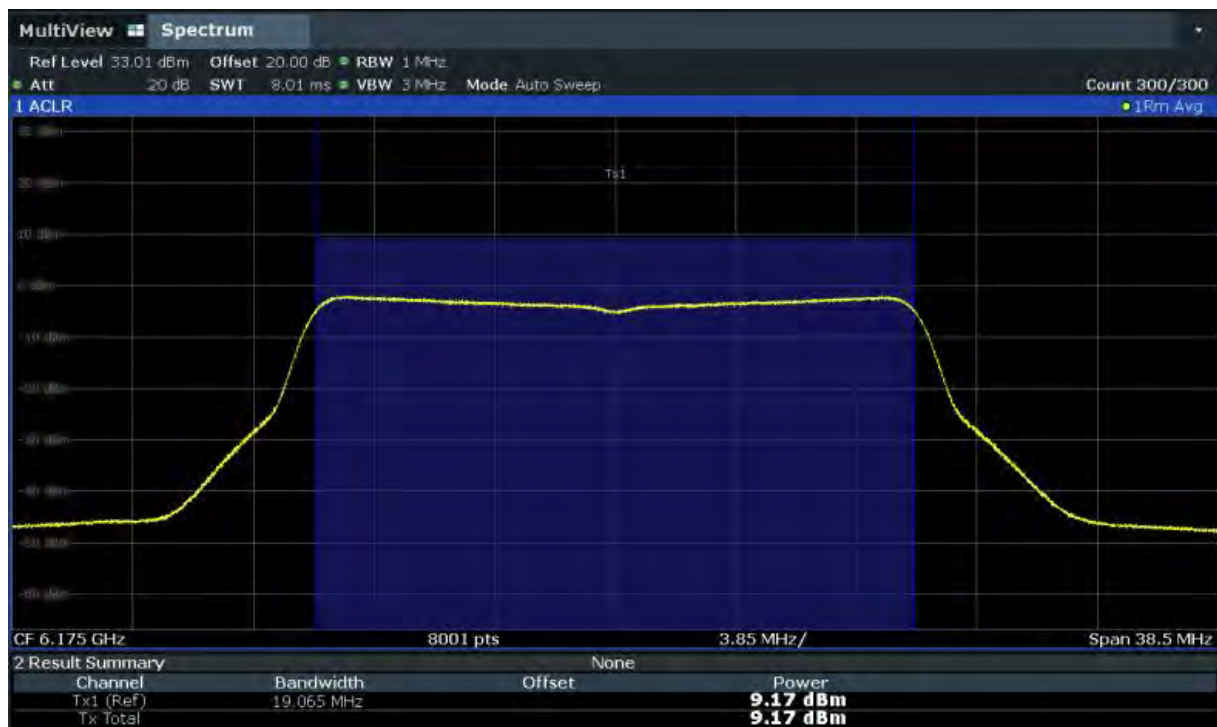
Mid power level

Lowest power level, as declared by the manufacturer

Measure the Client RF power using SA-2 method from C63.10 for NII devices. Use this power and its antenna gain to calculate the Client EIRP.

AFC access point EIRP limitation (dBm)	AFC Max Client EIRP limitation (dBm)	Fre(MHz)	BW(MHz)	Chain	Conducted Result (dBm)	Duty Cycle (%)	Antenna Gain (dBi)	ERIP Result (dBm)
33.78	27.78	6175	20	Ant 7	14.89	90	-5.82	9.53
25.78	19.78				11.36	90	-5.82	6.00
13.78	7.78				9.17	90	-5.82	3.81





Conclusion: PASS

A.10. Radiated Unwanted Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

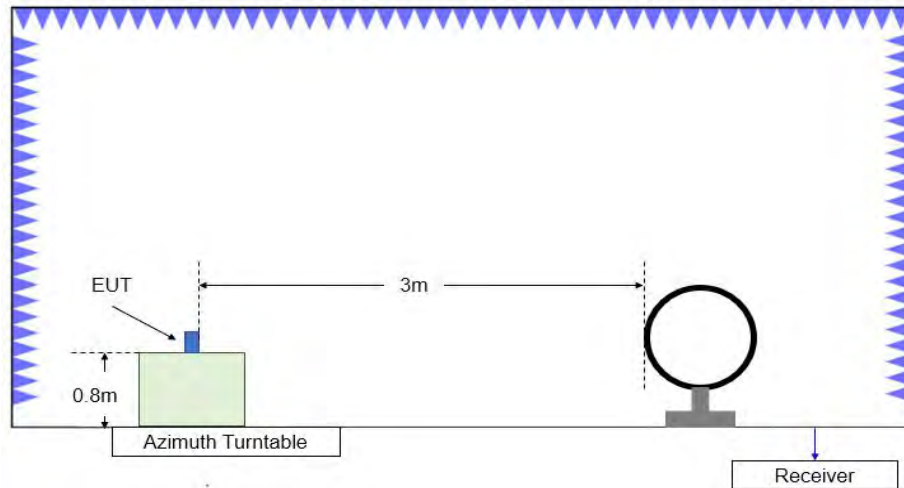
Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

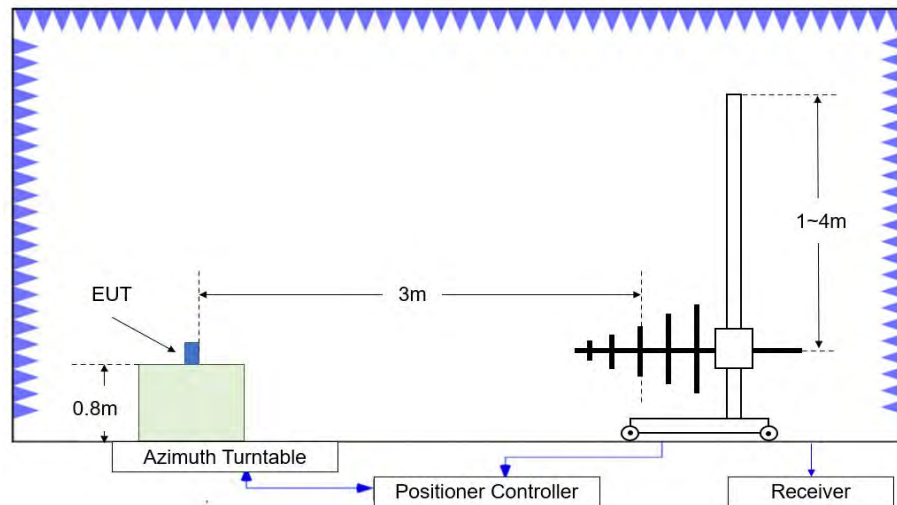
Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

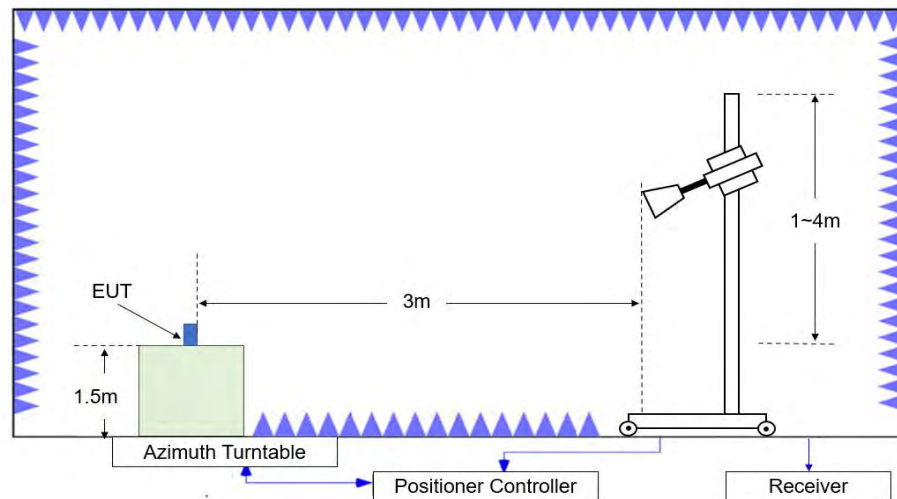
Test setup



Test Site Diagram (9kHz-30MHz)



Test Site Diagram (30MHz-1GHz)



Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10.

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.
5. Both full RU and partial RU spurious emission was tested. And the results are basically noises with no suspicious emission. In this case, the measurement results of full RU were reported and represented worst cases.

Measurement Results:
802.11a
FULL RU
AVERAGE Results:

Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.850	43.99	-26.90	42.30	28.59	54.00	10.01	H
17922.150	43.97	-26.90	42.30	28.57	54.00	10.03	H
14473.800	43.02	-24.42	40.00	27.44	54.00	10.98	V
14471.100	42.99	-24.42	40.00	27.41	54.00	11.01	V
5924.266	40.96	-26.77	35.00	32.73	68.20	27.24	H
5898.422	40.86	-26.77	35.00	32.63	68.20	27.34	H

802.11a
FULL RU
AVERAGE Results:

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.050	44.23	-26.90	42.30	28.83	54.00	9.77	H
17936.550	44.00	-26.90	42.30	28.60	54.00	10.00	V
14497.200	42.97	-24.42	40.00	27.39	54.00	11.03	V
14482.350	42.93	-24.42	40.00	27.35	54.00	11.07	V
12297.600	38.80	-29.71	38.80	29.71	54.00	15.20	V
12300.750	38.64	-29.71	38.80	29.55	54.00	15.36	V

802.11a
FULL RU
AVERAGE Results:

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.750	44.11	-26.90	42.30	28.71	54.00	9.89	V
17928.450	44.05	-26.90	42.30	28.65	54.00	9.95	H
13391.100	43.97	-29.12	40.50	32.59	54.00	10.03	V
13393.800	43.49	-29.12	40.50	32.11	54.00	10.51	V
12282.750	38.89	-29.71	38.80	29.80	54.00	15.11	H
12303.900	38.75	-29.71	38.80	29.66	54.00	15.25	H

802.11a
FULL RU
AVERAGE Results:

Channel 233

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.500	44.14	-26.90	42.30	28.74	54.00	9.86	V
17912.700	44.01	-26.90	42.30	28.61	54.00	9.99	H
14494.950	43.20	-24.42	40.00	27.62	54.00	10.80	V
14498.550	43.17	-24.42	40.00	27.59	54.00	10.83	V
7125.060	58.26	-25.75	37.10	46.91	68.20	9.94	V
7125.027	57.95	-25.75	37.10	46.60	68.20	10.25	V

802.11ax-20M
FULL RU
AVERAGE Results:

Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.850	44.19	-26.90	42.30	28.79	54.00	9.81	V
17946.900	44.09	-26.90	42.30	28.69	54.00	9.91	V
14487.300	43.09	-24.42	40.00	27.51	54.00	10.91	H
14487.750	43.06	-24.42	40.00	27.48	54.00	10.94	V
5893.550	41.19	-26.77	35.00	32.96	68.20	27.01	V
5923.090	41.18	-26.77	35.00	32.95	68.20	27.02	H

802.11ax-20M
FULL RU
AVERAGE Results:

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.450	43.96	-26.90	42.30	28.56	54.00	10.04	H
17939.700	43.94	-26.90	42.30	28.54	54.00	10.06	V
14493.150	43.17	-24.42	40.00	27.59	54.00	10.83	H
14473.800	43.02	-24.42	40.00	27.44	54.00	10.98	V
12285.450	38.83	-29.71	38.80	29.74	54.00	15.17	H
12373.650	38.70	-29.71	38.80	29.61	54.00	15.30	V

802.11ax-20M
FULL RU
AVERAGE Results:

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
13387.500	44.54	-29.12	40.50	33.16	54.00	9.46	V
13382.550	44.52	-29.12	40.50	33.14	54.00	9.48	V
17949.600	44.19	-26.90	42.30	28.79	54.00	9.81	H
17923.500	44.13	-26.90	42.30	28.73	54.00	9.87	H
12313.800	38.91	-29.71	38.80	29.82	54.00	15.09	H
12292.200	38.79	-29.71	38.80	29.70	54.00	15.21	H

802.11ax-20M
FULL RU
AVERAGE Results:

Channel 233

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17840.250	44.15	-26.90	42.30	28.75	54.00	9.85	H
17912.700	44.04	-26.90	42.30	28.64	54.00	9.96	V
14470.650	43.15	-24.42	40.00	27.57	54.00	10.85	V
14483.700	43.14	-24.42	40.00	27.56	54.00	10.86	H
7125.060	60.32	-25.75	37.10	48.97	68.20	7.88	H
7125.126	60.25	-25.75	37.10	48.90	68.20	7.95	H

802.11ax-40M
FULL RU
AVERAGE Results:

Channel 3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.350	43.89	-26.90	42.30	28.49	54.00	10.11	V
17921.700	43.88	-26.90	42.30	28.48	54.00	10.12	H
14490.900	43.18	-24.42	40.00	27.60	54.00	10.82	H
14483.700	43.17	-24.42	40.00	27.59	54.00	10.83	V
5922.922	45.16	-26.77	35.00	36.93	68.20	23.04	H
5924.560	45.11	-26.77	35.00	36.88	68.20	23.09	H

802.11ax-40M
FULL RU
AVERAGE Results:

Channel 107

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17910.000	43.97	-26.90	42.30	28.57	54.00	10.03	H
17927.550	43.95	-26.90	42.30	28.55	54.00	10.05	V
14496.750	43.08	-24.42	40.00	27.50	54.00	10.92	H
14488.200	42.99	-24.42	40.00	27.41	54.00	11.01	H
12306.150	39.13	-29.71	38.80	30.04	54.00	14.87	H
12305.250	38.88	-29.71	38.80	29.79	54.00	15.12	H

802.11ax-40M
FULL RU
AVERAGE Results:

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17929.350	43.87	-26.90	42.30	28.47	54.00	10.13	V
17919.900	43.86	-26.90	42.30	28.46	54.00	10.14	H
14493.600	43.26	-24.42	40.00	27.68	54.00	10.74	H
14490.450	43.14	-24.42	40.00	27.56	54.00	10.86	H
12309.300	38.94	-29.71	38.80	29.85	54.00	15.06	H
12328.650	38.84	-29.71	38.80	29.75	54.00	15.16	H

802.11ax-40M
FULL RU
AVERAGE Results:

Channel 227

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17930.700	44.19	-26.90	42.30	28.79	54.00	9.81	V
17905.050	44.18	-26.90	42.30	28.78	54.00	9.82	V
14494.500	43.34	-24.42	40.00	27.76	54.00	10.66	V
14495.850	43.30	-24.42	40.00	27.72	54.00	10.70	V
7125.192	46.95	-25.75	37.10	35.60	68.20	21.25	V
7125.423	46.73	-25.75	37.10	35.38	68.20	21.47	V

802.11ax-80M
FULL RU
AVERAGE Results:

Channel 7

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17931.150	44.28	-26.90	42.30	28.88	54.00	9.72	V
17936.100	44.10	-26.90	42.30	28.70	54.00	9.90	V
14496.300	43.33	-24.42	40.00	27.75	54.00	10.67	V
14489.550	43.20	-24.42	40.00	27.62	54.00	10.80	H
5924.980	47.34	-26.77	35.00	39.11	68.20	20.86	H
5924.000	47.08	-26.77	35.00	38.85	68.20	21.12	H

802.11ax-80M
FULL RU
AVERAGE Results:

Channel 103

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.300	44.21	-26.90	42.30	28.81	54.00	9.79	H
17926.650	44.13	-26.90	42.30	28.73	54.00	9.87	H
14489.550	43.01	-24.42	40.00	27.43	54.00	10.99	V
14483.250	42.98	-24.42	40.00	27.40	54.00	11.02	V
12278.700	38.80	-29.71	38.80	29.71	54.00	15.20	V
12283.200	38.73	-29.71	38.80	29.64	54.00	15.27	V

802.11ax-80M
FULL RU
AVERAGE Results:

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.300	44.13	-26.90	42.30	28.73	54.00	9.87	V
17995.050	43.97	-26.90	42.30	28.57	54.00	10.03	V
14493.150	43.31	-24.42	40.00	27.73	54.00	10.69	V
14474.700	43.09	-24.42	40.00	27.51	54.00	10.91	V
12324.150	38.97	-29.71	38.80	29.88	54.00	15.03	H
12303.000	38.68	-29.71	38.80	29.59	54.00	15.32	H

802.11ax-80M
FULL RU
AVERAGE Results:

Channel 215

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17923.050	44.26	-26.90	42.30	28.86	54.00	9.74	V
17953.200	44.19	-26.90	42.30	28.79	54.00	9.81	H
14497.200	43.06	-24.42	40.00	27.48	54.00	10.94	V
14470.200	43.01	-24.42	40.00	27.43	54.00	10.99	H
7223.697	44.02	-25.71	37.40	32.33	68.20	24.18	H
7205.811	43.93	-25.71	37.40	32.24	68.20	24.27	V

802.11ax-160M
FULL RU
AVERAGE Results:

Channel 15

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.600	44.04	-26.90	42.30	28.64	54.00	9.96	H
17922.600	43.96	-26.90	42.30	28.56	54.00	10.04	H
14481.450	43.09	-24.42	40.00	27.51	54.00	10.91	V
14497.650	43.06	-24.42	40.00	27.48	54.00	10.94	H
5892.640	50.83	-26.77	35.00	42.60	68.20	17.37	H
5898.758	49.58	-26.77	35.00	41.35	68.20	18.62	H

802.11ax-160M
FULL RU
AVERAGE Results:

Channel 207

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.400	43.87	-26.90	42.30	28.47	54.00	10.13	H
17910.900	43.86	-26.90	42.30	28.46	54.00	10.14	H
14481.450	43.11	-24.42	40.00	27.53	54.00	10.89	H
14484.600	43.11	-24.42	40.00	27.53	54.00	10.89	V
7224.126	44.12	-25.71	37.40	32.43	68.20	24.08	V
7226.964	44.10	-25.71	37.40	32.41	68.20	24.10	V

802.11a-20M
FULL RU
PEAK Results:

Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14662.350	55.46	-23.41	39.40	39.47	88.20	32.74	V
14650.200	55.42	-23.41	39.70	39.13	88.20	32.78	H
17935.650	55.17	-26.90	42.30	39.77	74.00	18.83	V
17959.050	55.09	-26.90	42.30	39.69	74.00	18.91	V
5919.478	52.17	-26.77	35.00	43.94	88.20	36.03	V
5913.794	51.70	-26.77	35.00	43.47	88.20	36.50	V

802.11a-20M
FULL RU
PEAK Results:

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14641.200	55.63	-23.41	39.70	39.34	88.20	32.57	V
14684.850	55.43	-23.41	39.40	39.44	88.20	32.77	V
17917.650	55.06	-26.90	42.30	39.66	74.00	18.94	H
17922.600	54.86	-26.90	42.30	39.46	74.00	19.14	V
12947.850	51.25	-29.01	39.70	40.56	88.20	36.95	V
12948.750	51.04	-29.01	39.70	40.35	88.20	37.16	V

802.11a-20M
FULL RU
PEAK Results:

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17927.550	55.77	-26.90	42.30	40.37	74.00	18.23	H
14619.600	55.27	-23.41	39.70	38.98	88.20	32.93	H
14674.050	55.23	-23.41	39.40	39.24	88.20	32.97	H
17953.650	55.13	-26.90	42.30	39.73	74.00	18.87	V
12793.050	50.88	-29.84	39.60	41.12	88.20	37.32	H
12958.200	50.87	-29.01	39.70	40.18	88.20	37.33	H

802.11a-20M
FULL RU
PEAK Results:

Channel 233

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14378.850	55.79	-24.96	40.20	40.55	88.20	32.41	V
14723.100	55.47	-24.07	39.40	40.14	88.20	32.73	H
17898.300	55.10	-26.90	42.30	39.70	74.00	18.90	H
17642.250	55.02	-27.43	42.30	40.15	88.20	33.18	V
7125.258	70.72	-25.75	37.10	59.37	88.20	17.48	V
7125.060	70.66	-25.75	37.10	59.31	88.20	17.54	V

802.11ax-20M
FULL RU
PEAK Results:

Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14655.600	56.64	-23.41	39.40	40.65	88.20	31.56	H
14525.550	55.30	-24.42	40.00	39.72	88.20	32.90	H
17931.600	55.10	-26.90	42.30	39.70	74.00	18.90	V
17747.100	55.03	-27.43	42.30	40.16	74.00	18.97	H
5923.300	52.88	-26.77	35.00	44.65	88.20	35.32	H
5911.288	52.69	-26.77	35.00	44.46	88.20	35.51	H

802.11ax-20M
FULL RU
PEAK Results:

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14571.900	55.65	-23.41	39.70	39.36	88.20	32.55	V
14537.700	55.50	-24.42	40.00	39.92	88.20	32.70	H
17946.000	55.13	-26.90	42.30	39.73	74.00	18.87	H
17956.350	54.99	-26.90	42.30	39.59	74.00	19.01	V
12945.150	52.70	-29.01	39.70	42.01	88.20	35.50	V
12958.650	52.42	-29.01	39.70	41.73	88.20	35.78	V

802.11ax-20M
FULL RU
PEAK Results:

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
13391.100	56.41	-29.12	40.50	45.03	74.00	17.59	V
13387.500	55.85	-29.12	40.50	44.47	74.00	18.15	V
17959.950	55.02	-26.90	42.30	39.62	74.00	18.98	V
17647.650	54.81	-27.43	42.30	39.94	88.20	33.39	H
13081.050	50.45	-27.87	40.00	38.32	88.20	37.75	V
13083.300	50.44	-27.87	40.00	38.31	88.20	37.76	V

802.11ax-20M
FULL RU
PEAK Results:

Channel 233

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14624.550	55.38	-23.41	39.70	39.09	88.20	32.82	H
14346.900	55.26	-24.96	40.30	39.92	88.20	32.94	H
17772.300	55.05	-26.90	42.30	39.65	74.00	18.95	H
17760.150	55.00	-27.43	42.30	40.13	74.00	19.00	H
7125.027	68.27	-25.75	37.10	56.92	88.20	19.93	H
7125.060	66.04	-25.75	37.10	54.69	88.20	22.16	H

802.11ax-40M
FULL RU
PEAK Results:

Channel 3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14654.250	55.28	-23.41	39.40	39.29	88.20	32.92	H
14691.150	55.19	-23.41	39.40	39.20	88.20	33.01	H
17957.250	54.99	-26.90	42.30	39.59	74.00	19.01	H
17955.900	54.72	-26.90	42.30	39.32	74.00	19.28	H
5922.964	58.44	-26.77	35.00	50.21	88.20	29.76	H
5924.868	58.28	-26.77	35.00	50.05	88.20	29.92	H

802.11ax-40M
FULL RU
PEAK Results:

Channel 107

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14555.250	55.37	-23.41	39.70	39.08	88.20	32.83	V
14734.800	54.95	-24.07	39.40	39.62	88.20	33.25	H
17952.750	54.90	-26.90	42.30	39.50	74.00	19.10	V
17829.450	54.85	-26.90	42.30	39.45	74.00	19.15	H
12974.400	51.44	-29.01	39.80	40.65	88.20	36.76	V
12968.550	50.95	-29.01	39.70	40.26	88.20	37.25	V

802.11ax-40M
FULL RU
PEAK Results:

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17598.150	55.71	-27.43	42.20	40.94	88.20	32.49	V
17921.700	55.45	-26.90	42.30	40.05	74.00	18.55	V
14561.100	55.44	-23.41	39.70	39.15	88.20	32.76	H
14629.500	55.26	-23.41	39.70	38.97	88.20	32.94	V
12947.400	50.54	-29.01	39.70	39.85	88.20	37.66	H
13082.400	50.41	-27.87	40.00	38.28	88.20	37.79	V

802.11ax-40M
FULL RU
PEAK Results:

Channel 227

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14726.700	55.75	-24.07	39.40	40.42	88.20	32.45	H
17962.200	55.41	-26.90	42.30	40.01	74.00	18.59	H
17627.400	55.24	-27.43	42.30	40.37	88.20	32.96	H
14655.150	55.21	-23.41	39.40	39.22	88.20	32.99	H
7125.324	59.45	-25.75	37.10	48.10	88.20	28.75	V
7126.083	57.83	-25.75	37.10	46.48	88.20	30.37	V

802.11ax-80M
FULL RU
PEAK Results:

Channel 7

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14577.750	55.27	-23.41	39.70	38.98	88.20	32.93	H
14597.100	55.13	-23.41	39.70	38.84	88.20	33.07	H
17696.700	54.90	-27.43	42.30	40.03	88.20	33.30	V
17554.950	54.84	-27.51	42.20	40.15	88.20	33.36	H
5915.054	59.62	-26.77	35.00	51.39	88.20	28.58	H
5922.152	59.16	-26.77	35.00	50.93	88.20	29.04	V

802.11ax-80M
FULL RU
PEAK Results:

Channel 103

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14635.350	57.37	-23.41	39.70	41.08	88.20	30.83	V
14630.850	55.57	-23.41	39.70	39.28	88.20	32.63	V
17915.850	55.15	-26.90	42.30	39.75	74.00	18.85	H
17982.000	54.95	-26.90	42.30	39.55	74.00	19.05	V
12948.300	50.37	-29.01	39.70	39.68	88.20	37.83	V
13090.050	50.22	-27.87	40.00	38.09	88.20	37.98	V

802.11ax-80M
FULL RU
PEAK Results:

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14593.500	55.37	-23.41	39.70	39.08	88.20	32.83	V
17932.950	55.34	-26.90	42.30	39.94	74.00	18.66	V
14667.750	55.18	-23.41	39.40	39.19	88.20	33.02	H
17955.450	55.10	-26.90	42.30	39.70	74.00	18.90	H
13080.600	50.50	-27.87	40.00	38.37	88.20	37.70	V
13080.150	50.34	-27.87	40.00	38.21	88.20	37.86	H

802.11ax-80M
FULL RU
PEAK Results:

Channel 215

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14576.850	55.48	-23.41	39.70	39.19	88.20	32.72	H
14668.200	55.33	-23.41	39.40	39.34	88.20	32.87	H
17928.900	55.21	-26.90	42.30	39.81	74.00	18.79	V
17557.200	54.98	-27.51	42.20	40.29	88.20	33.22	V
7186.869	55.11	-25.71	37.40	43.42	88.20	33.09	V
7196.043	54.95	-25.71	37.40	43.26	88.20	33.25	V

802.11ax-160M
FULL RU
PEAK Results:

Channel 15

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14641.650	55.37	-23.41	39.70	39.08	88.20	32.83	H
14665.050	55.18	-23.41	39.40	39.19	88.20	33.02	H
17655.300	54.90	-27.43	42.30	40.03	88.20	33.30	H
17940.150	54.83	-26.90	42.30	39.43	74.00	19.17	V
5889.084	60.26	-26.98	34.70	52.54	88.20	27.94	H
5898.758	60.16	-26.77	35.00	51.93	88.20	28.04	H

802.11ax-160M
FULL RU
PEAK Results:

Channel 207

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
14671.800	55.54	-23.41	39.40	39.55	88.20	32.66	H
17858.700	55.43	-26.90	42.30	40.03	74.00	18.57	V
17962.650	55.27	-26.90	42.30	39.87	74.00	18.73	H
14592.600	54.95	-23.41	39.70	38.66	88.20	33.25	H
7213.368	55.43	-25.71	37.40	43.74	88.20	32.77	H
7194.228	55.11	-25.71	37.40	43.42	88.20	33.09	H

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable\ Loss+Antenna\ Factor$

Note: The measurement results showed here are worst cases

A.11. Band Edges Compliance

A11.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

Measurement Result for full RU:

Mode	Channel	Test Results	Conclusion
802.11a 20M	CH1	Fig.23	P
	CH233	Fig.24	P
802.11ax 20M	CH1	Fig.25	P
	CH233	Fig.26	P
802.11ax 40M	CH3	Fig.27	P
	CH227	Fig.28	P
802.11ax 80M	CH7	Fig.29	P
	CH215	Fig.30	P
802.11ax 160M	CH15	Fig.31	P
	CH207	Fig.32	P

Measurement Result for Partial RU:

Mode	Channel	RU size and index	Test Results	Conclusion
802.11ax 20M	CH1	106RU-index53	Fig.33	P
	CH233	106RU-index54	Fig.34	P
802.11ax 40M	CH3	242RU-index61	Fig.35	P
	CH227	242RU-index62	Fig.36	P
802.11ax 80M	CH7	242RU-index61	Fig.37	P
	CH215	242RU-index62	Fig.38	P
802.11ax 160M	CH15	242RU-index61	Fig.39	P
	CH207	242RU-index124	Fig.40	P

Note1: All partial RU and full RU have been tested, in spurious domain there are basically noises with suspicious emission, thus only the full RU results were reported.

Note2: All SISO and MIMO emissions have been checked, only the worst cases were reported.

Conclusion: PASS

Test graphs as below:

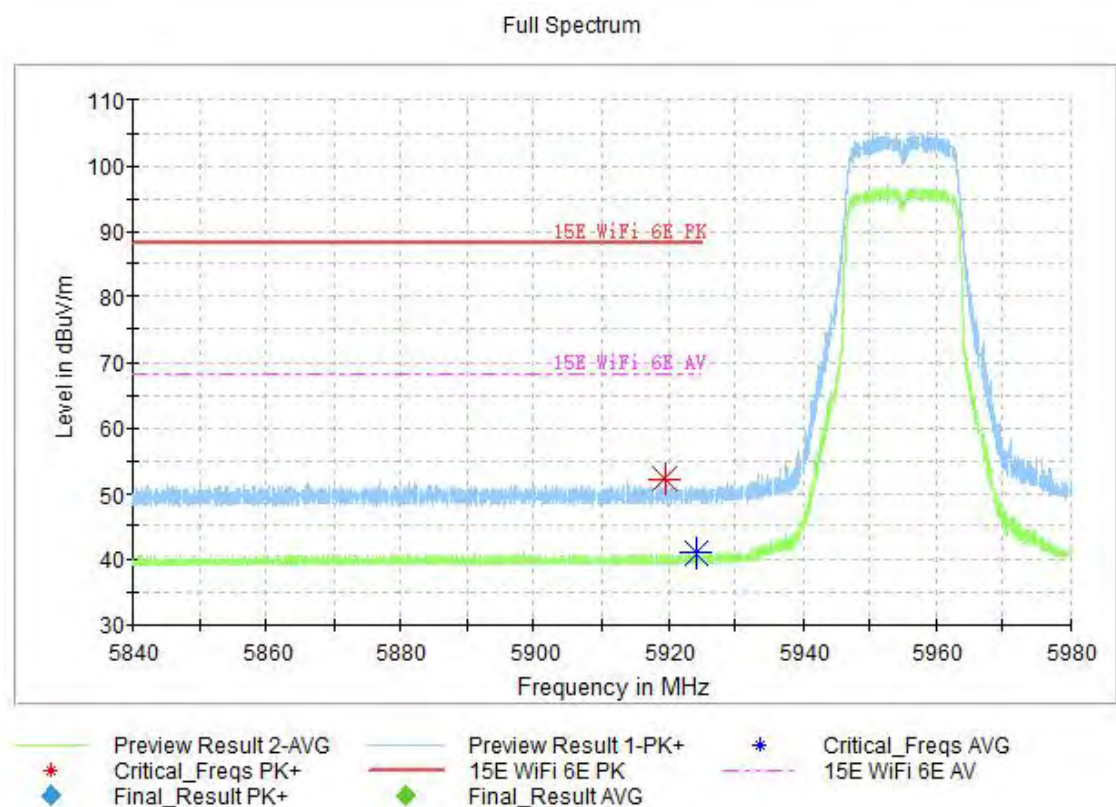


Fig.5 Band Edges (802.11a 20M Ch1 MIMO)

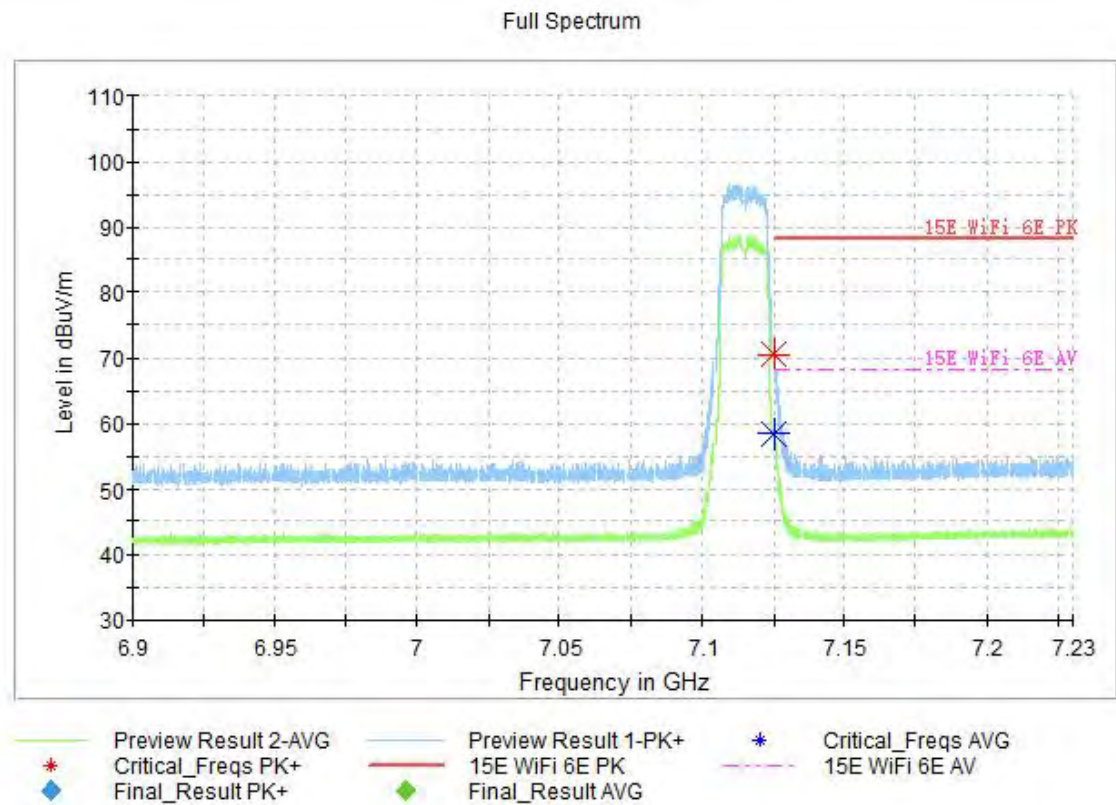


Fig.6 Band Edges (802.11a 20M Ch233 MIMO)

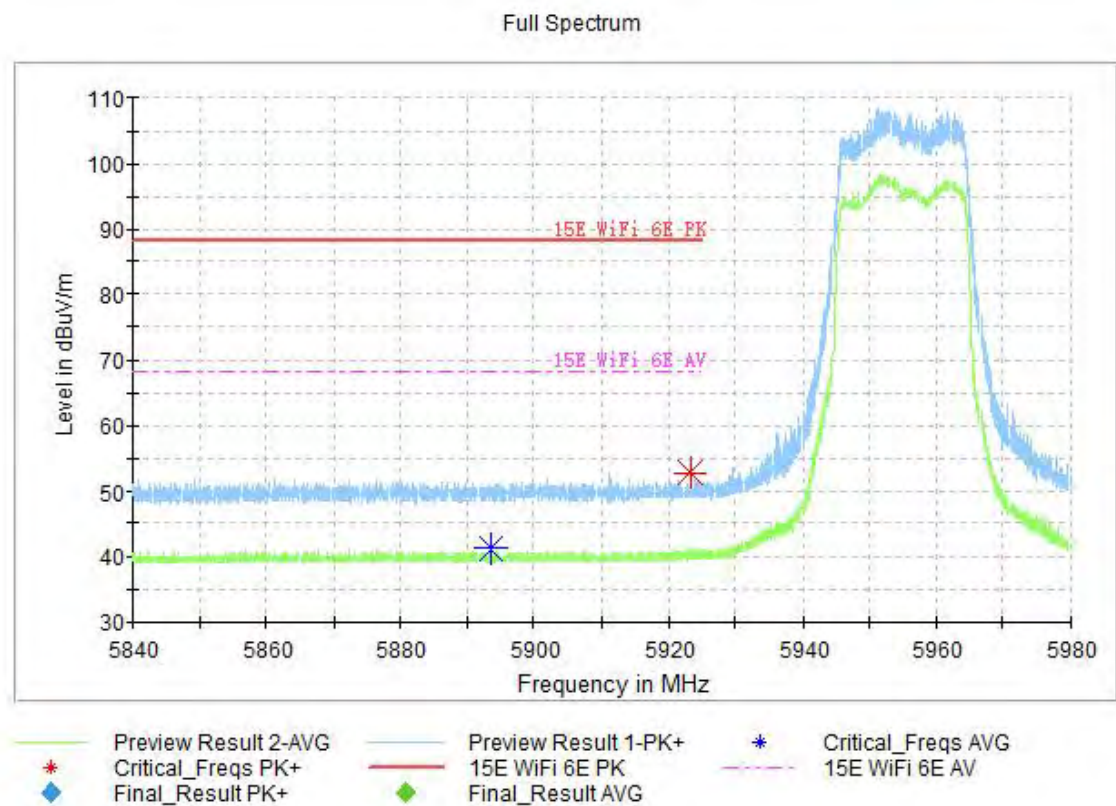


Fig.7 Band Edges (802.11ax 20M Ch1 full RU MIMO)

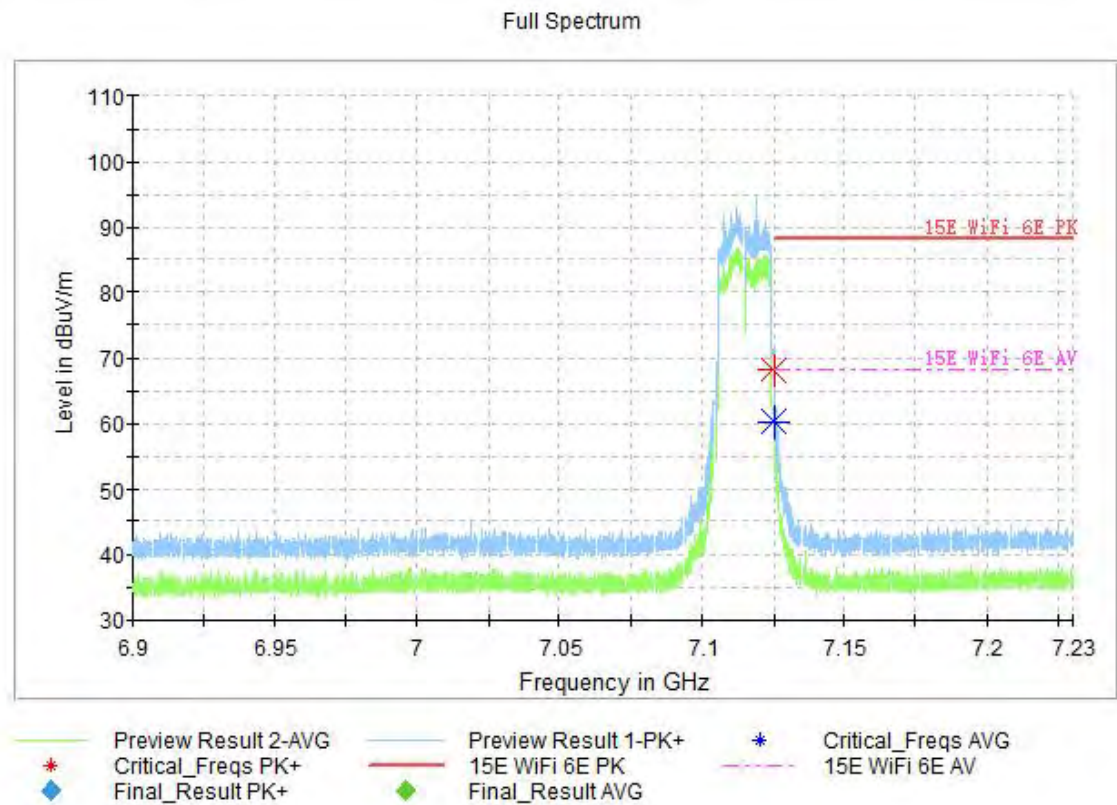


Fig.8 Band Edges (802.11ax 20M Ch233 full RU MIMO)

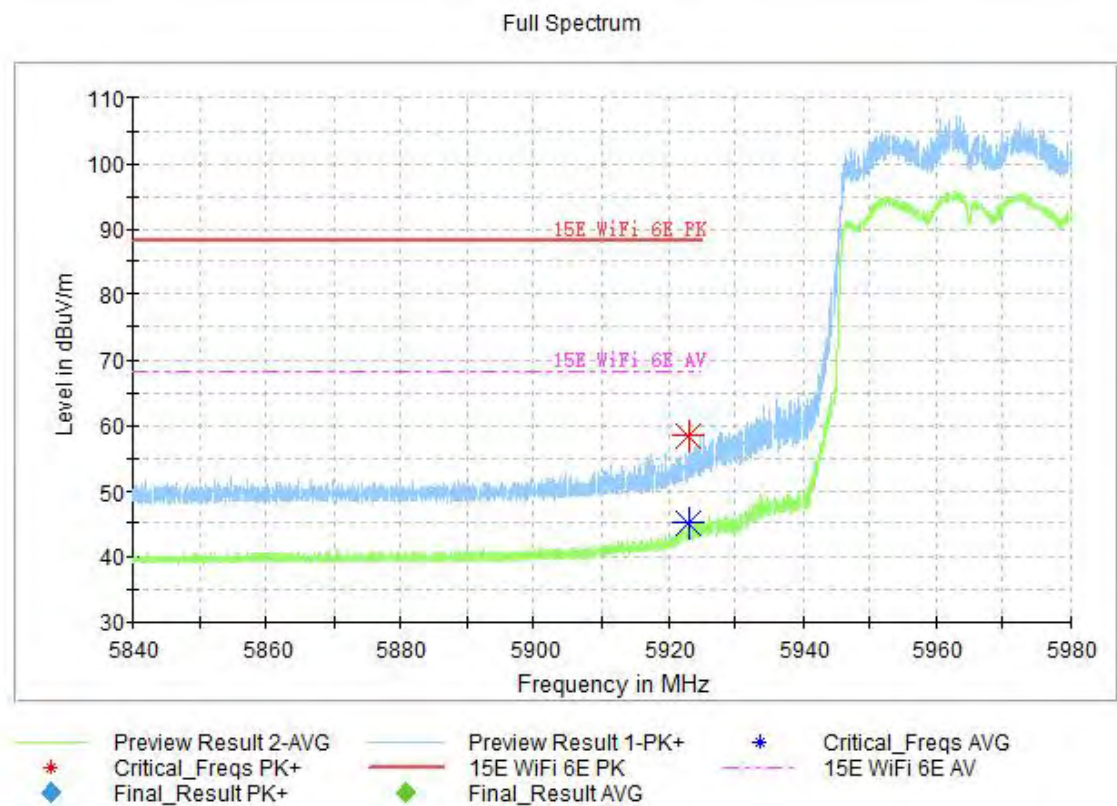


Fig.9 Band Edges (802.11ax 40M Ch3 full RU MIMO)

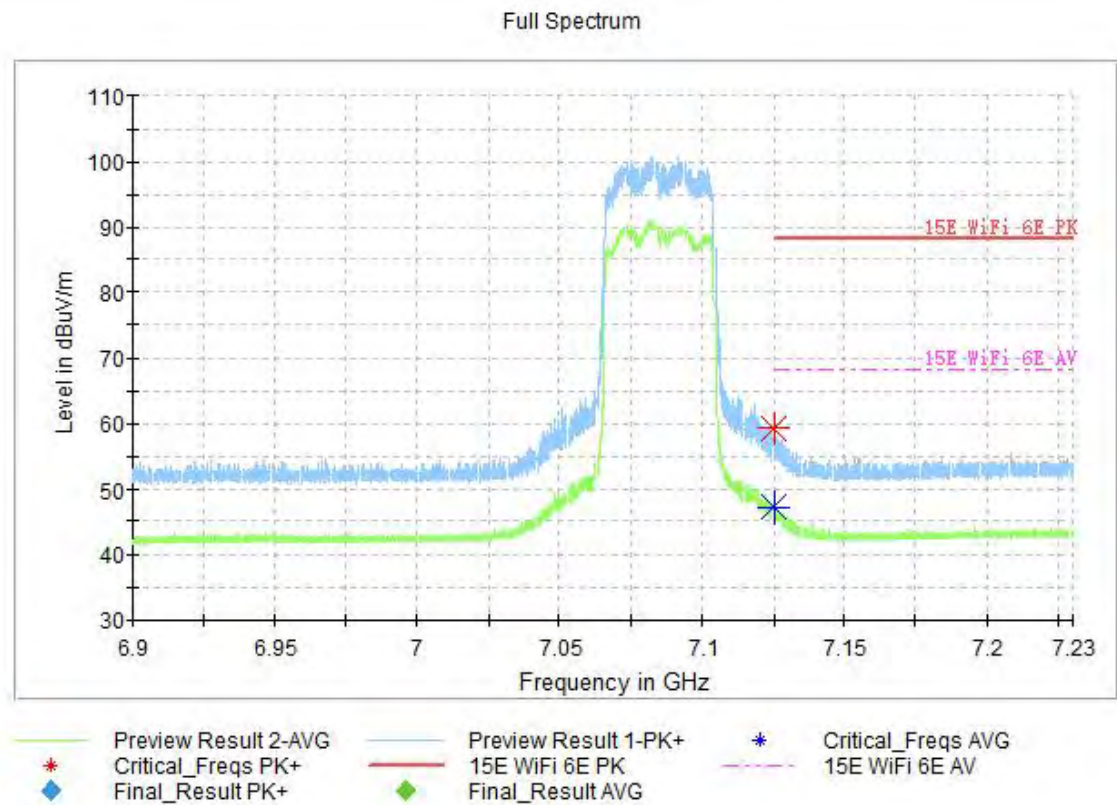


Fig.10 Band Edges (802.11ax 40M Ch227 full RU MIMO)

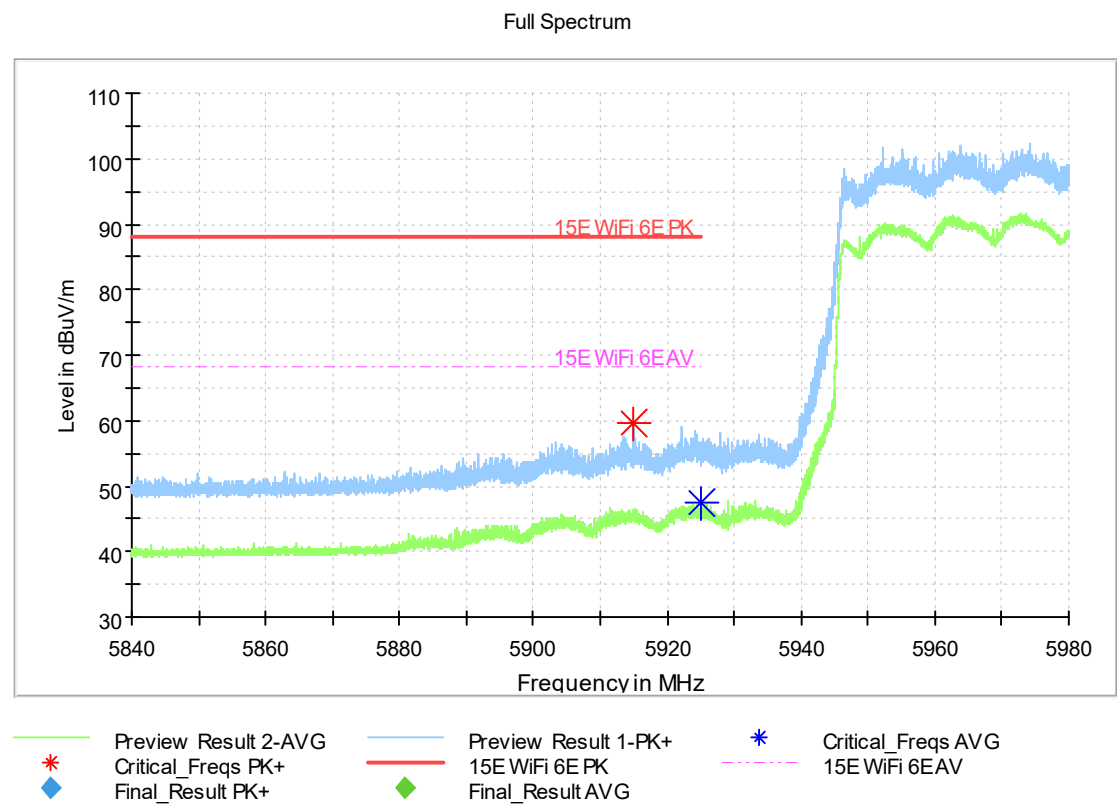


Fig.11 Band Edges (802.11ax 80M Ch7 full RU MIMO)

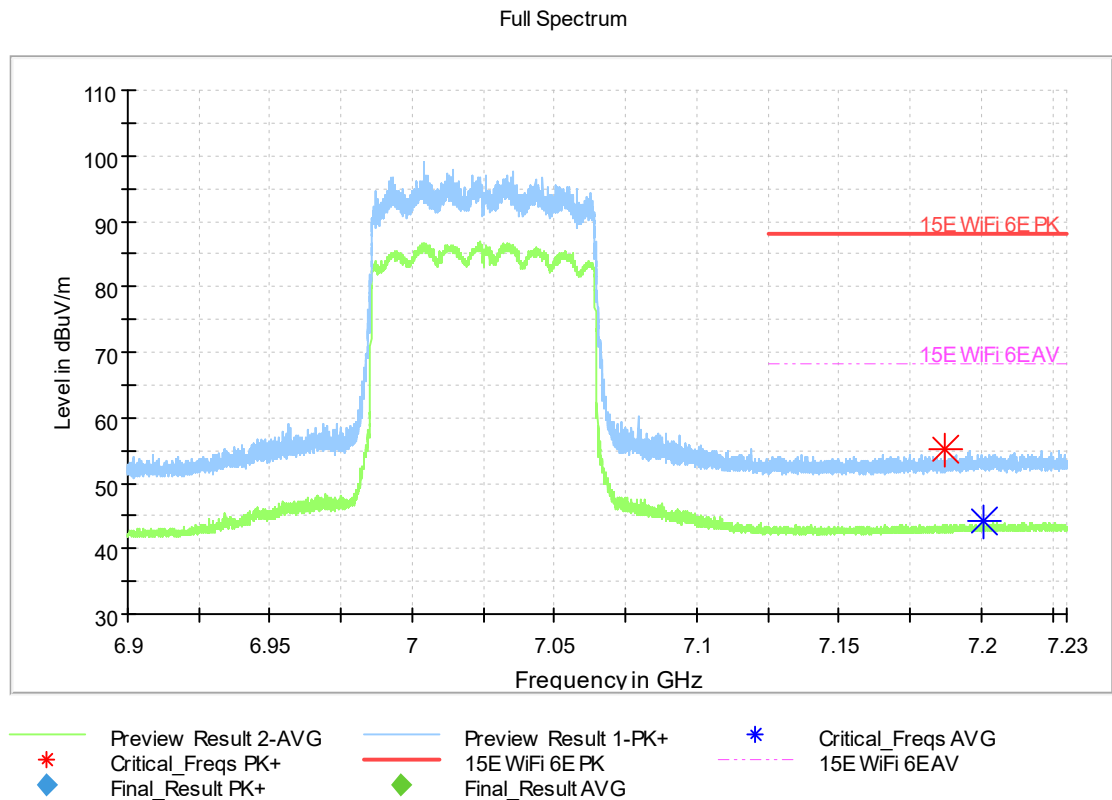


Fig.12 Band Edges (802.11ax 80M Ch215 full RU MIMO)

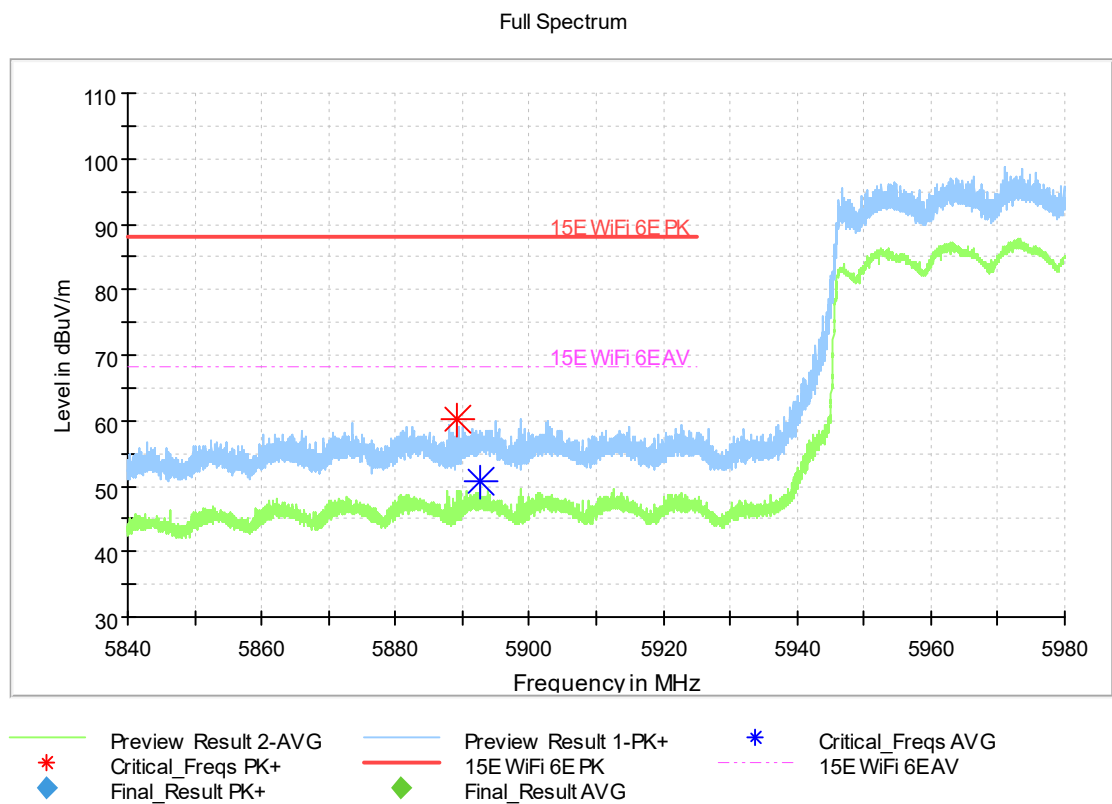


Fig.13 Band Edges (802.11ax 160M Ch15 full RU MIMO)

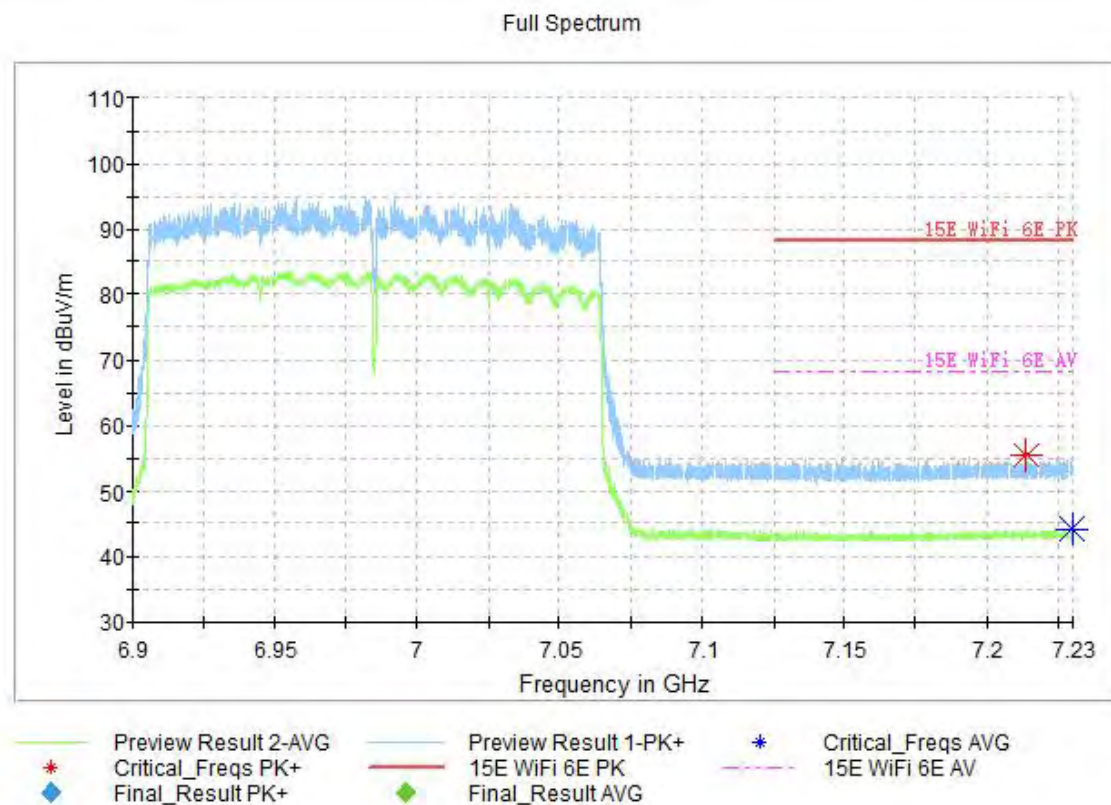


Fig.14 Band Edges (802.11ax 160M Ch207 full RU MIMO)

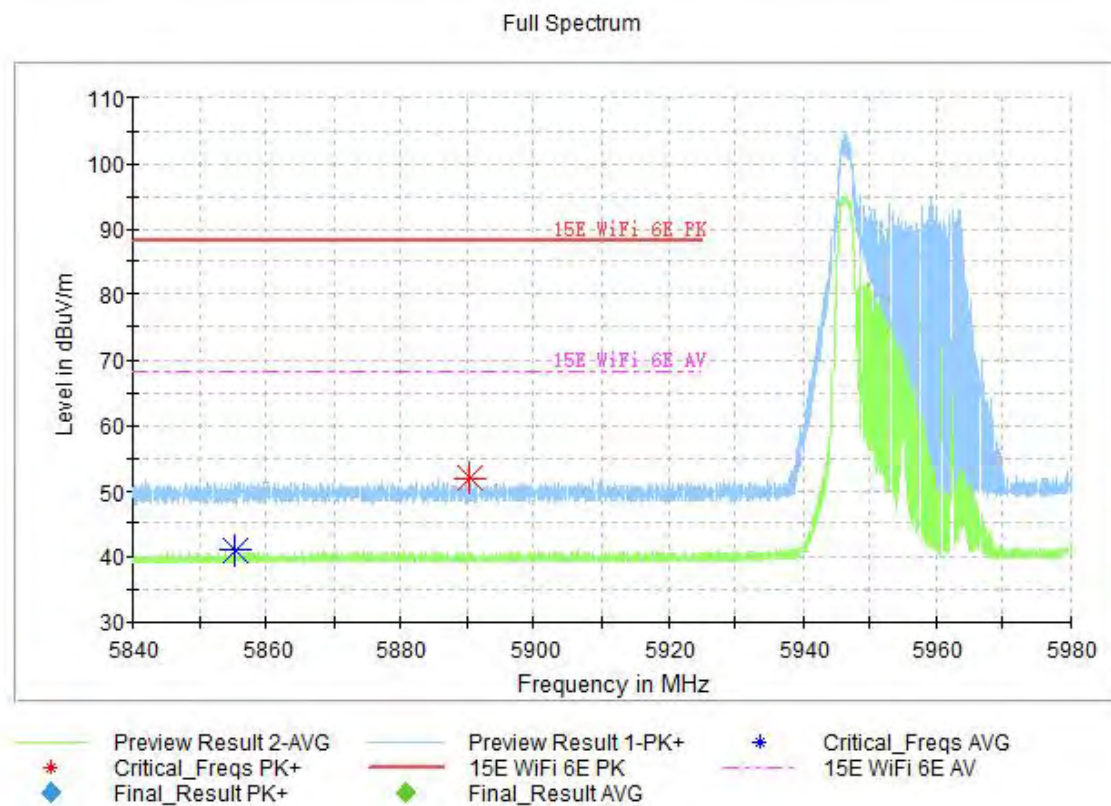


Fig.15 Band Edges (802.11ax 20M Ch1 partial RU MIMO)

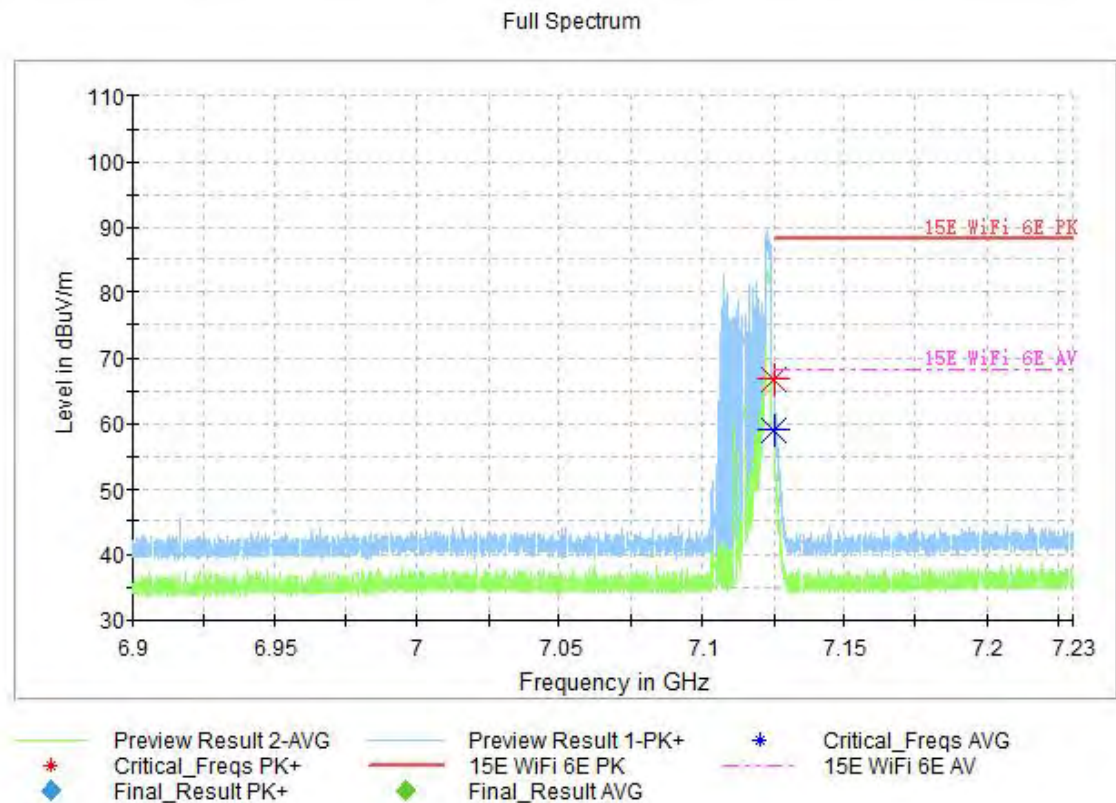


Fig.16 Band Edges (802.11ax 20M Ch233 partial RU MIMO)

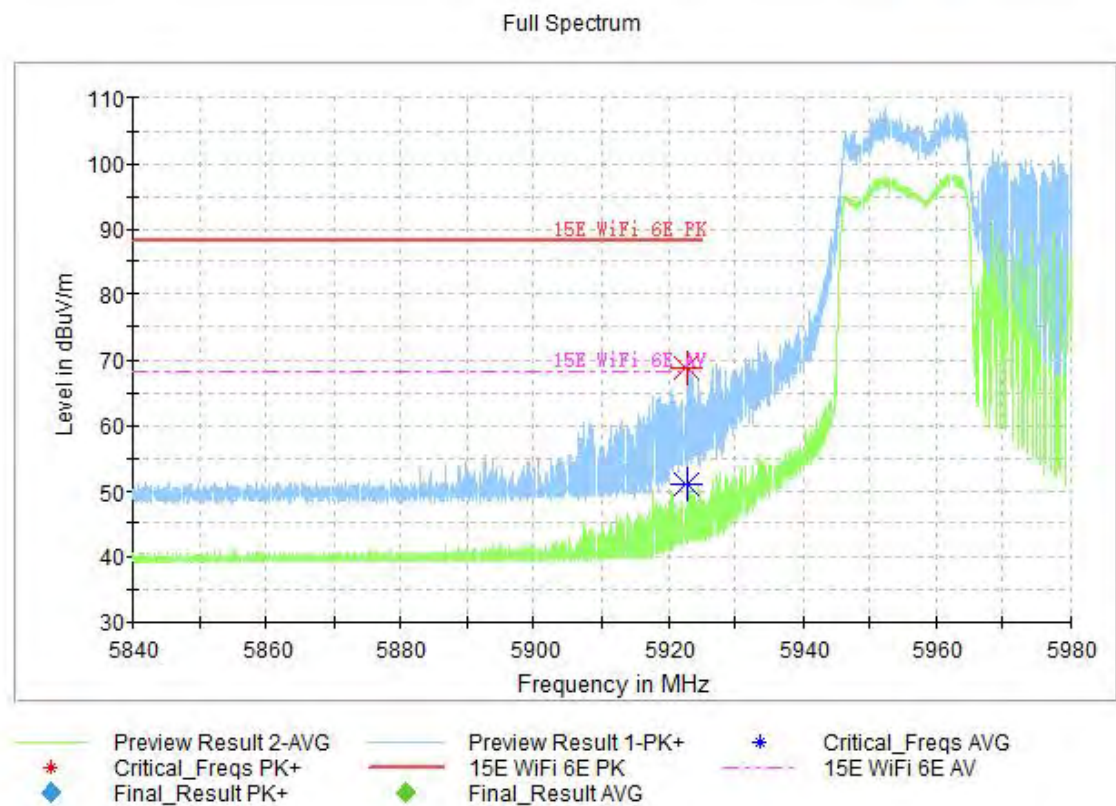


Fig.17 Band Edges (802.11ax 40M Ch3 partial RU MIMO)

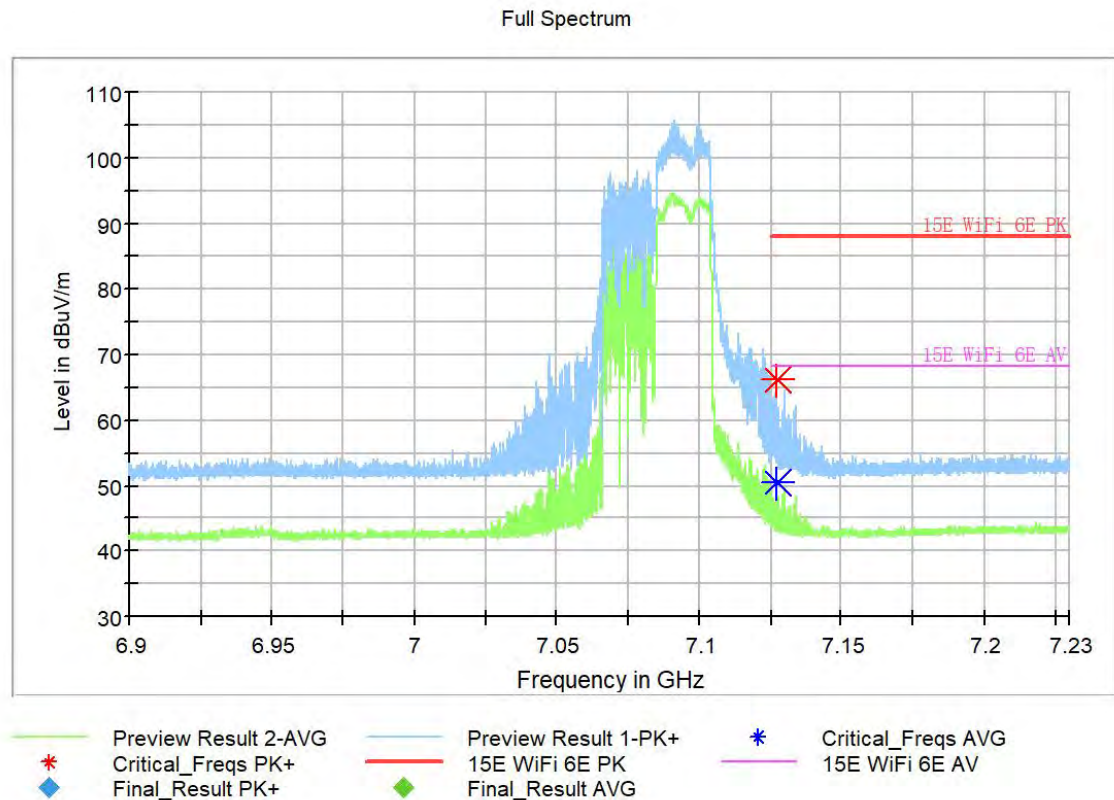


Fig.18 Band Edges (802.11ax 40M Ch227 partial RU MIMO)

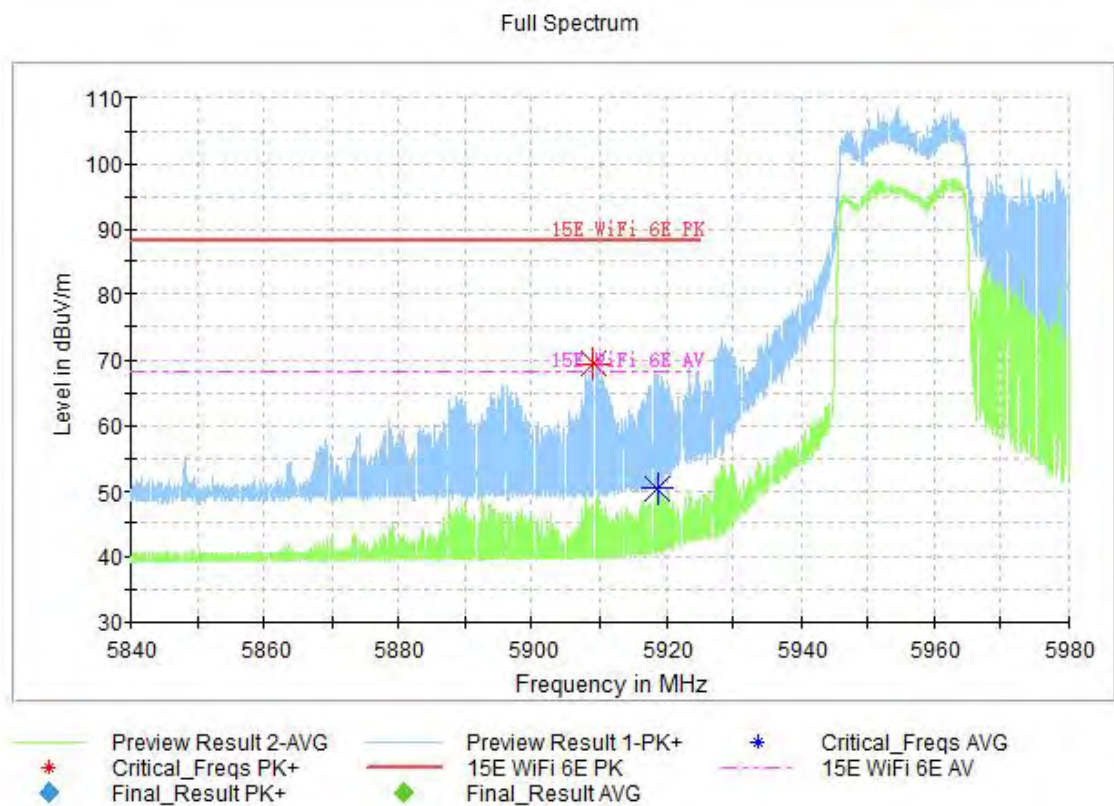


Fig.19 Band Edges (802.11ax 80M Ch7 partial RU MIMO)

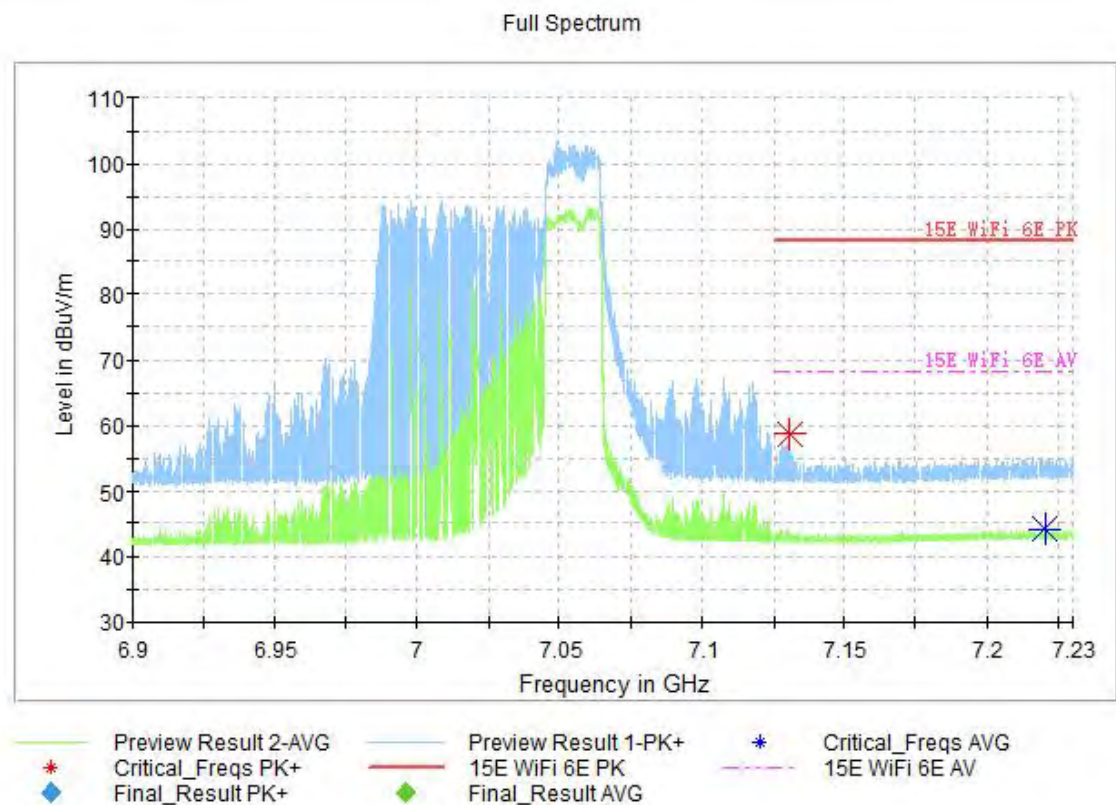


Fig.20 Band Edges (802.11ax 80M Ch215 partial RU MIMO)

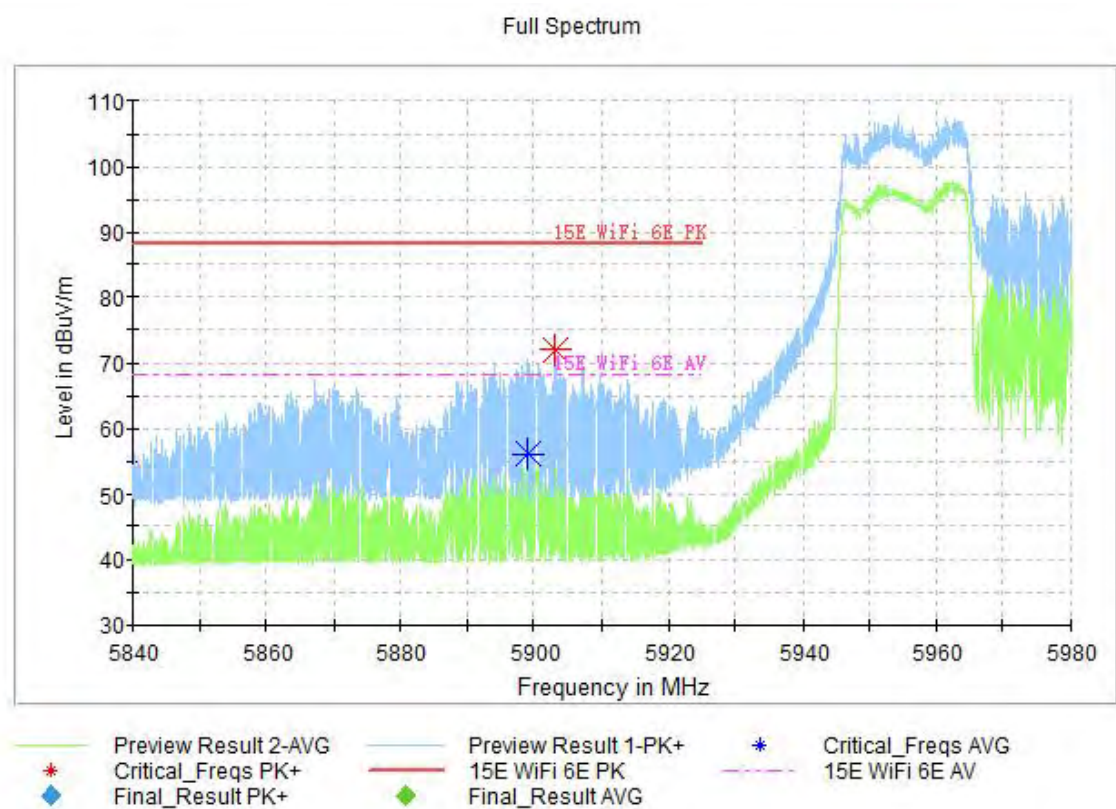


Fig.21 Band Edges (802.11ax 160M Ch15 partial RU MIMO)

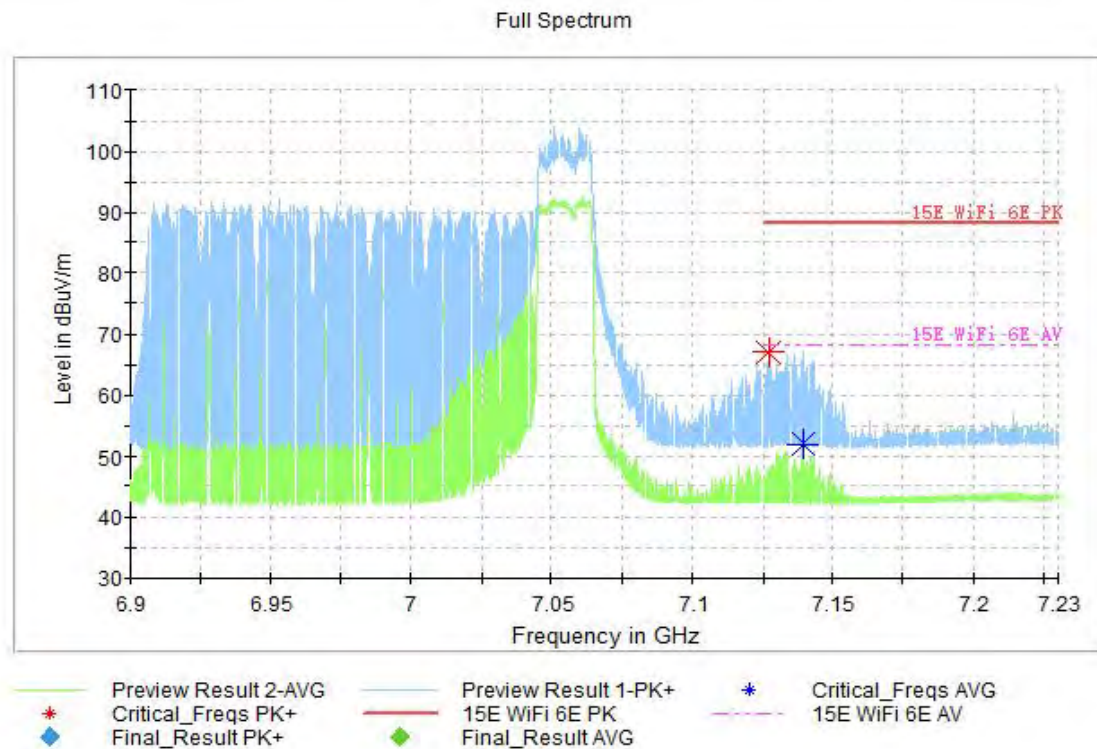


Fig.22 Band Edges (802.11ax 160M Ch207 partial RU MIMO)

A.12. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.08\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11ax	Idle	
0.15 to 0.5	66 to 56	Fig.23	Fig.24	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11ax	Idle	
0.15 to 0.5	67 56 to 46	Fig.23	Fig.24	P
0.5 to 5	46			
5 to 30	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Conclusion: PASS

Test graphs as below:

Traffic:

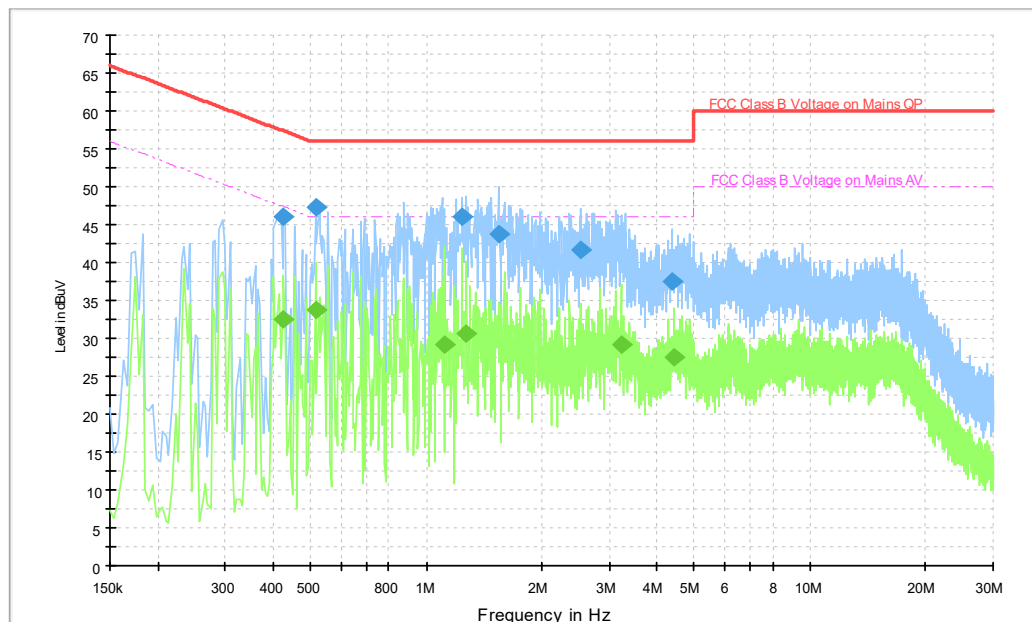


Fig.23 Conducted Emission (802.11ax, Ch1, TX)

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.426000	46.0	2000.0	9.000	On	N	19.9	11.3	57.3
0.514000	47.3	2000.0	9.000	On	N	19.9	8.7	56.0
1.238000	46.1	2000.0	9.000	On	N	19.7	9.9	56.0
1.542000	43.8	2000.0	9.000	On	L1	19.9	12.2	56.0
2.530000	41.6	2000.0	9.000	On	N	19.6	14.4	56.0
4.390000	37.5	2000.0	9.000	On	L1	19.8	18.5	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.426000	32.5	2000.0	9.000	On	N	19.9	14.9	47.3
0.514000	33.8	2000.0	9.000	On	N	19.9	12.2	46.0
1.110000	29.2	2000.0	9.000	On	N	19.7	16.8	46.0
1.274000	30.7	2000.0	9.000	On	N	19.7	15.3	46.0
3.214000	29.2	2000.0	9.000	On	N	19.6	16.8	46.0
4.438000	27.4	2000.0	9.000	On	N	19.6	18.6	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

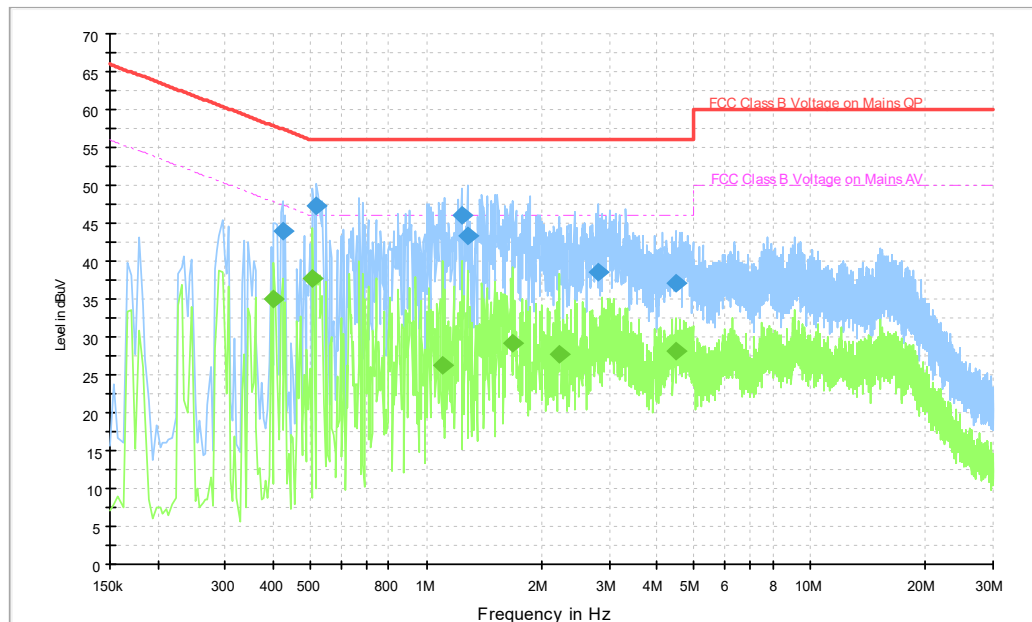


Fig.24 Conducted Emission(802.11ax, CH1 IDLE)

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.422000	43.9	2000.0	9.000	On	N	19.9	13.5	57.4
0.518000	47.3	2000.0	9.000	On	N	19.9	8.7	56.0
1.234000	45.9	2000.0	9.000	On	N	19.7	10.1	56.0
1.278000	43.4	2000.0	9.000	On	N	19.7	12.6	56.0
2.810000	38.5	2000.0	9.000	On	L1	19.8	17.5	56.0
4.474000	37.0	2000.0	9.000	On	L1	19.8	19.0	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.402000	35.0	2000.0	9.000	On	N	19.9	12.8	47.8
0.506000	37.7	2000.0	9.000	On	N	19.9	8.3	46.0
1.102000	26.2	2000.0	9.000	On	N	19.7	19.8	46.0
1.678000	29.1	2000.0	9.000	On	N	19.7	16.9	46.0
2.226000	27.7	2000.0	9.000	On	N	19.6	18.3	46.0
4.454000	28.2	2000.0	9.000	On	N	19.6	17.8	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

A.13. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate




Accredited Laboratory
A2LA has accredited
TELECOMMUNICATION TECHNOLOGY LABS, CAICT
Beijing, People's Republic of China
for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).


Presented this 23rd day of July 2024.

Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.



*** END OF REPORT BODY ***