

## 8.4. Test result

Test Mode	Antenna	Freq. [MHz]	TPC	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A-CDD	Ant1	5180		95.86	0.18	14.81	30	30.94	---	PASS
	Ant2	5180		95.86	0.18	14.36	30	29.69	---	PASS
	total	5180		---	---	17.60	30	33.73	---	PASS
	Ant1	5200		95.21	0.21	15.28	30	31.41	---	PASS
	Ant2	5200		95.86	0.18	14.5	30	29.83	---	PASS
	total	5200		---	---	17.92	30	34.05	---	PASS
	Ant1	5240		95.86	0.18	14.96	30	31.09	---	PASS
	Ant2	5240		95.86	0.18	13.94	30	29.27	---	PASS
	total	5240		---	---	17.49	30	33.62	---	PASS
	Ant1	5260	TPC_H	95.21	0.21	5.48	13.87	21.61	30	PASS
			TPC_L	95.21	0.21	-1.40	13.87	14.73	30	PASS
	Ant2	5260	TPC_H	95.21	0.21	5.24	14.67	20.57	30	PASS
			TPC_L	95.21	0.21	-1.16	14.67	14.17	30	PASS
	total	5260	TPC_H	---	---	8.37	13.87	24.50	30	PASS
			TPC_L	---	---	1.73	13.87	17.86	30	PASS
	Ant1	5280	TPC_H	95.89	0.18	5.24	13.87	21.37	30	PASS
			TPC_L	95.89	0.18	-1.47	13.87	14.66	30	PASS
	Ant2	5280	TPC_H	95.21	0.21	5.02	14.67	20.35	30	PASS
			TPC_L	95.21	0.21	-1.80	14.67	13.53	30	PASS
	total	5280	TPC_H	---	---	8.14	13.87	24.27	30	PASS
			TPC_L	---	---	1.38	13.87	17.51	30	PASS
	Ant1	5320	TPC_H	95.89	0.18	3.89	13.87	20.02	30	PASS
			TPC_L	95.89	0.18	-2.75	13.87	13.38	30	PASS
	Ant2	5320	TPC_H	95.89	0.18	4.90	14.67	20.23	30	PASS
			TPC_L	95.89	0.18	-1.88	14.67	13.45	30	PASS
	total	5320	TPC_H	---	---	7.43	13.87	23.56	30	PASS
			TPC_L	---	---	0.72	13.87	16.85	30	PASS
	Ant1	5500	TPC_H	95.89	0.18	4.25	13.87	20.38	30	PASS
			TPC_L	95.89	0.18	-2.42	13.87	13.71	30	PASS
	Ant2	5500	TPC_H	95.86	0.18	5.65	14.67	20.98	30	PASS
			TPC_L	95.86	0.18	-1.09	14.67	14.24	30	PASS
	total	5500	TPC_H	---	---	8.02	13.87	24.15	30	PASS
			TPC_L	---	---	1.31	13.87	17.44	30	PASS
	Ant1	5580	TPC_H	95.21	0.21	5.50	13.87	21.63	30	PASS
			TPC_L	95.21	0.21	-1.20	13.87	14.93	30	PASS
	Ant2	5580	TPC_H	95.21	0.21	5.85	14.67	21.18	30	PASS
			TPC_L	95.21	0.21	-0.86	14.67	14.47	30	PASS
	total	5580	TPC_H	---	---	8.69	13.87	24.82	30	PASS
			TPC_L	---	---	1.98	13.87	18.11	30	PASS
	Ant1	5700	TPC_H	95.86	0.18	4.33	13.87	20.46	30	PASS
			TPC_L	95.86	0.18	-1.80	13.87	14.33	30	PASS
	Ant2	5700	TPC_H	95.21	0.21	4.58	14.67	19.91	30	PASS
			TPC_L	95.21	0.21	-2.12	14.67	13.21	30	PASS
	total	5700	TPC_H	---	---	7.47	13.87	23.60	30	PASS
			TPC_L	---	---	1.05	13.87	17.18	30	PASS
	Ant1	5745	95.86	0.18	15.79	30	31.92	---	PASS	
	Ant2	5745	95.86	0.18	16.04	30	31.37	---	PASS	
	total	5745	---	---	18.93	30	35.06	---	PASS	
Ant1	5785	95.21	0.21	16.31	30	32.44	---	PASS		
Ant2	5785	95.21	0.21	16.36	30	31.69	---	PASS		
total	5785	---	---	19.35	30	35.48	---	PASS		
Ant1	5825	95.21	0.21	16.14	30	32.27	---	PASS		
Ant2	5825	95.21	0.21	17.29	30	32.62	---	PASS		
total	5825	---	---	19.76	30	35.89	---	PASS		
11N20MIMO	Ant1	5180	90.54	0.43	14.88	30	31.01	---	PASS	
	Ant2	5180	90.54	0.43	15.06	30	30.39	---	PASS	
	total	5180	---	---	17.98	30	34.11	---	PASS	
	Ant1	5200	90.54	0.43	15.3	30	31.43	---	PASS	
	Ant2	5200	90.54	0.43	14.81	30	30.14	---	PASS	

	total	5200		---	---	18.07	30	34.20	---	PASS
	Ant1	5240		90.54	0.43	15.08	30	31.21	---	PASS
	Ant2	5240		90.54	0.43	14.31	30	29.64	---	PASS
	total	5240		---	---	17.72	30	33.85	---	PASS
	Ant1	5260	TPC_H	91.89	0.37	4.81	13.87	20.94	30	PASS
			TPC_L	91.89	0.37	-1.27	13.87	14.86	30	PASS
	Ant2	5260	TPC_H	90.54	0.43	5.16	14.67	20.49	30	PASS
			TPC_L	90.54	0.43	-1.54	14.67	13.79	30	PASS
	total	5260	TPC_H	---	---	8.00	13.87	24.13	30	PASS
			TPC_L	---	---	1.61	13.87	17.74	30	PASS
	Ant1	5280	TPC_H	91.89	0.37	4.66	13.87	20.79	30	PASS
			TPC_L	91.89	0.37	-1.42	13.87	14.71	30	PASS
	Ant2	5280	TPC_H	91.78	0.37	4.90	14.67	20.23	30	PASS
			TPC_L	91.78	0.37	-1.80	14.67	13.53	30	PASS
	total	5280	TPC_H	---	---	7.79	13.87	23.92	30	PASS
			TPC_L	---	---	1.40	13.87	17.53	30	PASS
	Ant1	5320	TPC_H	90.54	0.43	3.35	13.87	19.48	30	PASS
			TPC_L	90.54	0.43	-2.74	13.87	13.39	30	PASS
	Ant2	5320	TPC_H	91.89	0.37	4.82	14.67	20.15	30	PASS
			TPC_L	91.89	0.37	-1.88	14.67	13.45	30	PASS
	total	5320	TPC_H	---	---	7.16	13.87	23.29	30	PASS
			TPC_L	---	---	0.72	13.87	16.85	30	PASS
	Ant1	5500	TPC_H	91.78	0.37	3.84	13.87	19.97	30	PASS
			TPC_L	91.78	0.37	-2.44	13.87	13.69	30	PASS
	Ant2	5500	TPC_H	91.89	0.37	5.59	14.67	20.92	30	PASS
			TPC_L	91.89	0.37	-1.12	14.67	14.21	30	PASS
	total	5500	TPC_H	---	---	7.81	13.87	23.94	30	PASS
			TPC_L	---	---	1.28	13.87	17.41	30	PASS
	Ant1	5580	TPC_H	90.54	0.43	5.04	13.87	21.17	30	PASS
			TPC_L	90.54	0.43	-1.19	13.87	14.94	30	PASS
	Ant2	5580	TPC_H	91.89	0.37	5.75	14.67	21.08	30	PASS
			TPC_L	91.89	0.37	-0.92	14.67	14.41	30	PASS
	total	5580	TPC_H	---	---	8.42	13.87	24.55	30	PASS
			TPC_L	---	---	1.96	13.87	18.09	30	PASS
	Ant1	5700	TPC_H	91.89	0.37	4.25	13.87	20.38	30	PASS
			TPC_L	91.89	0.37	-1.89	13.87	14.24	30	PASS
	Ant2	5700	TPC_H	91.89	0.37	4.47	14.67	19.80	30	PASS
			TPC_L	91.89	0.37	-2.16	14.67	13.17	30	PASS
	total	5700	TPC_H	---	---	7.37	13.87	23.50	30	PASS
			TPC_L	---	---	0.99	13.87	17.12	30	PASS
	Ant1	5745		90.54	0.43	15.71	30	31.84	---	PASS
	Ant2	5745		90.54	0.43	15.94	30	31.27	---	PASS
	total	5745		---	---	18.84	30	34.97	---	PASS
	Ant1	5785		90.54	0.43	16.20	30	32.33	---	PASS
	Ant2	5785		90.54	0.43	16.83	30	32.16	---	PASS
	total	5785		---	---	19.54	30	35.67	---	PASS
	Ant1	5825		90.54	0.43	16.17	30	32.30	---	PASS
	Ant2	5825		91.78	0.37	17.32	30	32.65	---	PASS
	total	5825		---	---	19.79	30	35.92	---	PASS
	Ant1	5190		85	0.71	15.36	30	31.49	---	PASS
	Ant2	5190		82.93	0.81	15.15	30	30.48	---	PASS
	total	5190		---	---	18.27	30	34.40	---	PASS
	Ant1	5230		85	0.71	15.35	30	31.48	---	PASS
	Ant2	5230		85	0.71	14.66	30	29.99	---	PASS
	total	5230		---	---	18.03	30	34.16	---	PASS
	Ant1	5270	TPC_H	82.93	0.81	6.64	13.87	22.77	30	PASS
			TPC_L	85	0.81	0.21	13.87	16.34	30	PASS
	Ant2	5270	TPC_H	85	0.71	6.77	14.67	22.10	30	PASS
			TPC_L	85	0.71	0.30	14.67	15.63	30	PASS
	total	5270	TPC_H	---	---	9.72	13.87	25.85	30	PASS
			TPC_L	---	---	3.27	13.87	19.40	30	PASS
	Ant1	5310	TPC_H	85.37	0.69	5.04	13.87	21.17	30	PASS
			TPC_L	85.37	0.69	-1.10	13.87	15.03	30	PASS
	Ant2	5310	TPC_H	85	0.71	6.71	14.67	22.04	30	PASS

11N40MIMO

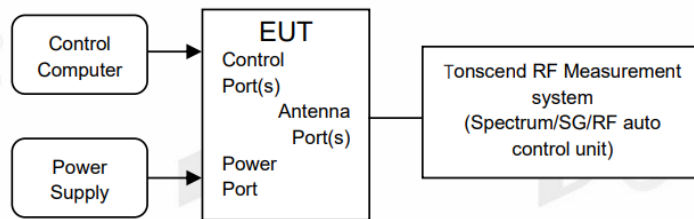
11AC20MIMO	total	5310	TPC_L	85	0.71	0.25	14.67	15.58	30	PASS
			TPC_H	---	---	8.97	13.87	25.10	30	PASS
			TPC_L	---	---	2.65	13.87	18.78	30	PASS
	Ant1	5510	TPC_H	85	0.71	5.61	13.87	21.74	30	PASS
			TPC_L	85	0.71	-0.88	13.87	15.25	30	PASS
	Ant2	5510	TPC_H	85.37	0.69	7.36	14.67	22.69	30	PASS
			TPC_L	85.37	0.69	0.92	14.67	16.25	30	PASS
	total	5510	TPC_H	---	---	9.58	13.87	25.71	30	PASS
			TPC_L	---	---	3.12	13.87	19.25	30	PASS
	Ant1	5550	TPC_H	85	0.71	6.80	13.87	22.93	30	PASS
			TPC_L	85	0.71	0.29	13.87	16.42	30	PASS
	Ant2	5550	TPC_H	85	0.71	7.83	14.67	23.16	30	PASS
			TPC_L	85	0.71	1.36	14.67	16.69	30	PASS
	total	5550	TPC_H	---	---	10.36	13.87	26.49	30	PASS
			TPC_L	---	---	3.87	13.87	20.00	30	PASS
	Ant1	5670	TPC_H	85.37	0.69	5.60	13.87	21.73	30	PASS
			TPC_L	85.37	0.69	-0.64	13.87	15.49	30	PASS
	Ant2	5670	TPC_H	85	0.71	6.46	14.67	21.79	30	PASS
			TPC_L	85	0.71	0.04	14.67	15.37	30	PASS
	total	5670	TPC_H	---	---	9.06	13.87	25.19	30	PASS
			TPC_L	---	---	2.72	13.87	18.85	30	PASS
	Ant1	5755		85	0.71	16.05	30	32.18	---	PASS
	Ant2	5755		82.93	0.81	16.35	30	31.68	---	PASS
	total	5755		---	---	19.21	30	35.34	---	PASS
	Ant1	5795		85	0.71	16.38	30	32.51	---	PASS
	Ant2	5795		85	0.71	16.59	30	31.92	---	PASS
	total	5795		---	---	19.50	30	35.63	---	PASS
	Ant1	5180		90.67	0.43	15.07	30	31.20	---	PASS
	Ant2	5180		90.67	0.43	14.91	30	30.24	---	PASS
	total	5180		---	---	18	30	34.13	---	PASS
	Ant1	5200		90.67	0.43	15.17	30	31.30	---	PASS
	Ant2	5200		90.67	0.43	14.72	30	30.05	---	PASS
	total	5200		---	---	17.96	30	34.09	---	PASS
	Ant1	5240		90.67	0.43	15.04	30	31.17	---	PASS
	Ant2	5240		90.67	0.43	14.29	30	29.62	---	PASS
	total	5240		---	---	17.69	30	33.82	---	PASS
	Ant1	5260	TPC_H	90.67	0.43	4.85	13.87	20.98	30	PASS
			TPC_L	90.67	0.43	-1.58	13.87	14.55	30	PASS
	Ant2	5260	TPC_H	91.89	0.37	5.12	14.67	20.45	30	PASS
			TPC_L	91.89	0.37	-1.41	14.67	13.92	30	PASS
total	5260	TPC_H	---	---	8.00	13.87	24.13	30	PASS	
		TPC_L	---	---	1.52	13.87	17.65	30	PASS	
Ant1	5280	TPC_H	92	0.36	4.92	13.87	21.05	30	PASS	
		TPC_L	92	0.36	-1.82	13.87	14.31	30	PASS	
Ant2	5280	TPC_H	92	0.36	4.90	14.67	20.23	30	PASS	
		TPC_L	92	0.36	-1.65	14.67	13.68	30	PASS	
total	5280	TPC_H	---	---	7.92	13.87	24.05	30	PASS	
		TPC_L	---	---	1.28	13.87	17.41	30	PASS	
Ant1	5320	TPC_H	91.89	0.37	3.55	13.87	19.68	30	PASS	
		TPC_L	91.89	0.37	-2.63	13.87	13.50	30	PASS	
Ant2	5320	TPC_H	91.89	0.37	4.84	14.67	20.17	30	PASS	
		TPC_L	91.89	0.37	-1.72	14.67	13.61	30	PASS	
total	5320	TPC_H	---	---	7.25	13.87	23.38	30	PASS	
		TPC_L	---	---	0.86	13.87	16.99	30	PASS	
Ant1	5500	TPC_H	90.67	0.43	4.05	13.87	20.18	30	PASS	
		TPC_L	90.67	0.43	-2.68	13.87	13.45	30	PASS	
Ant2	5500	TPC_H	90.67	0.43	5.67	14.67	21.00	30	PASS	
		TPC_L	90.67	0.43	-0.89	14.67	14.44	30	PASS	
total	5500	TPC_H	---	---	7.95	13.87	24.08	30	PASS	
		TPC_L	---	---	1.32	13.87	17.45	30	PASS	
Ant1	5580	TPC_H	91.89	0.37	5.16	13.87	21.29	30	PASS	
		TPC_L	91.89	0.37	-1.60	13.87	14.53	30	PASS	
Ant2	5580	TPC_H	91.89	0.37	5.77	14.67	21.10	30	PASS	
		TPC_L	91.89	0.37	-0.79	14.67	14.54	30	PASS	

	total	5580	TPC_H	---	---	8.49	13.87	24.62	30	PASS
			TPC_L	---	---	1.83	13.87	17.96	30	PASS
	Ant1	5700	TPC_H	90.67	0.43	4.30	13.87	20.43	30	PASS
			TPC_L	90.67	0.43	-1.80	13.87	14.33	30	PASS
	Ant2	5700	TPC_H	92	0.36	4.47	14.67	19.80	30	PASS
			TPC_L	92	0.36	-2.04	14.67	13.29	30	PASS
	total	5700	TPC_H	---	---	7.40	13.87	23.53	30	PASS
			TPC_L	---	---	1.10	13.87	17.23	30	PASS
	Ant1	5745	TPC_H	90.67	0.43	15.69	30	31.82	---	PASS
			TPC_L	90.67	0.43	16.47	30	31.80	---	PASS
	Ant2	5745	TPC_H	---	---	19.11	30	35.24	---	PASS
			TPC_L	---	---	19.11	30	35.24	---	PASS
	total	5745	TPC_H	---	---	19.11	30	35.24	---	PASS
			TPC_L	---	---	19.11	30	35.24	---	PASS
	Ant1	5785	TPC_H	90.67	0.43	16.15	30	32.28	---	PASS
			TPC_L	90.67	0.43	16.24	30	31.57	---	PASS
	Ant2	5785	TPC_H	90.67	0.43	16.24	30	31.57	---	PASS
			TPC_L	90.67	0.43	16.24	30	31.57	---	PASS
	total	5785	TPC_H	---	---	19.21	30	35.34	---	PASS
			TPC_L	---	---	19.21	30	35.34	---	PASS
	Ant1	5825	TPC_H	90.67	0.43	16.53	30	32.66	---	PASS
			TPC_L	90.67	0.43	17.20	30	32.53	---	PASS
	Ant2	5825	TPC_H	90.67	0.43	17.20	30	32.53	---	PASS
			TPC_L	90.67	0.43	17.20	30	32.53	---	PASS
	total	5825	TPC_H	---	---	19.89	30	36.02	---	PASS
			TPC_L	---	---	19.89	30	36.02	---	PASS
	Ant1	5190	TPC_H	85.37	0.69	14.87	30	31.00	---	PASS
			TPC_L	85.37	0.69	14.87	30	31.00	---	PASS
	Ant2	5190	TPC_H	83.33	0.79	14.55	30	29.88	---	PASS
			TPC_L	83.33	0.79	14.55	30	29.88	---	PASS
	total	5190	TPC_H	---	---	17.72	30	33.85	---	PASS
			TPC_L	---	---	17.72	30	33.85	---	PASS
	Ant1	5230	TPC_H	85.37	0.69	15.32	30	31.45	---	PASS
			TPC_L	85.37	0.69	15.32	30	31.45	---	PASS
	Ant2	5230	TPC_H	85.37	0.69	14.65	30	29.98	---	PASS
			TPC_L	85.37	0.69	14.65	30	29.98	---	PASS
	total	5230	TPC_H	---	---	18.01	30	34.14	---	PASS
			TPC_L	---	---	18.01	30	34.14	---	PASS
	Ant1	5270	TPC_H	85	0.71	6.53	13.87	22.66	30	PASS
			TPC_L	85	0.71	0.20	13.87	16.33	30	PASS
	Ant2	5270	TPC_H	85	0.71	6.05	14.67	21.38	30	PASS
			TPC_L	85	0.71	-0.21	14.67	15.12	30	PASS
	total	5270	TPC_H	---	---	9.31	13.87	25.44	30	PASS
			TPC_L	---	---	3.01	13.87	19.14	30	PASS
	Ant1	5310	TPC_H	85.37	0.69	5.07	13.87	21.20	30	PASS
			TPC_L	85.37	0.69	-2.97	13.87	13.16	30	PASS
	Ant2	5310	TPC_H	85.37	0.69	6.06	14.67	21.39	30	PASS
			TPC_L	85.37	0.69	-1.58	14.67	13.75	30	PASS
	total	5310	TPC_H	---	---	8.60	13.87	24.73	30	PASS
			TPC_L	---	---	0.79	13.87	16.92	30	PASS
	Ant1	5510	TPC_H	85.37	0.69	5.05	13.87	21.18	30	PASS
			TPC_L	85.37	0.69	-2.69	13.87	13.44	30	PASS
	Ant2	5510	TPC_H	85	0.71	7.06	14.67	22.39	30	PASS
			TPC_L	85	0.71	-0.94	14.67	14.39	30	PASS
	total	5510	TPC_H	---	---	9.18	13.87	25.31	30	PASS
			TPC_L	---	---	1.28	13.87	17.41	30	PASS
	Ant1	5550	TPC_H	85	0.71	6.69	13.87	22.82	30	PASS
			TPC_L	85	0.71	-1.53	13.87	14.60	30	PASS
	Ant2	5550	TPC_H	85.37	0.69	7.28	14.67	22.61	30	PASS
			TPC_L	85.37	0.69	-0.52	14.67	14.81	30	PASS
	total	5550	TPC_H	---	---	10.01	13.87	26.14	30	PASS
			TPC_L	---	---	2.01	13.87	18.14	30	PASS
	Ant1	5670	TPC_H	85.37	0.69	5.54	13.87	21.67	30	PASS
			TPC_L	85.37	0.69	-2.43	13.87	13.70	30	PASS
	Ant2	5670	TPC_H	85.37	0.69	5.73	14.67	21.06	30	PASS
			TPC_L	85.37	0.69	-1.84	14.67	13.49	30	PASS
	total	5670	TPC_H	---	---	8.65	13.87	24.78	30	PASS
			TPC_L	---	---	0.89	13.87	17.02	30	PASS
	Ant1	5755	TPC_H	85.37	0.69	16.09	30	32.22	---	PASS
			TPC_L	85.37	0.69	16.09	30	32.22	---	PASS
	Ant2	5755	TPC_H	83.33	0.79	16.38	30	31.71	---	PASS
			TPC_L	83.33	0.79	16.38	30	31.71	---	PASS
	total	5755	TPC_H	---	---	19.25	30	35.38	---	PASS
			TPC_L	---	---	19.25	30	35.38	---	PASS
	Ant1	5795	TPC_H	83.33	0.79	16.51	30	32.64	---	PASS
			TPC_L	83.33	0.79	16.51	30	32.64	---	PASS
	Ant2	5795	TPC_H	85.37	0.69	16.61	30	31.94	---	PASS
			TPC_L	85.37	0.69	16.61	30	31.94	---	PASS
	total	5795	TPC_H	---	---	19.57	30	35.70	---	PASS
			TPC_L	---	---	19.57	30	35.70	---	PASS
	Ant1	5210	TPC_H	75	1.25	15.74	30	31.87	---	PASS
			TPC_L	75	1.25	15.74	30	31.87	---	PASS
	Ant2	5210	TPC_H	75	1.25	15.3	30	30.63	---	PASS
			TPC_L	75	1.25	15.3	30	30.63	---	PASS
	total	5210	TPC_H	---	---	18.54	30	34.67	---	PASS
			TPC_L	---	---	18.54	30	34.67	---	PASS
	Ant1	5290	TPC_H	75	1.25	9.62	13.87	25.75	30	PASS
			TPC_L	75	1.25	2.56	13.87	18.69	30	PASS

Ant2	5290	TPC_H	75	1.25	9.21	14.67	24.54	30	PASS
		TPC_L	75	1.25	2.18	14.67	17.51	30	PASS
total	5290	TPC_H	---	---	12.43	13.87	28.56	30	PASS
		TPC_L	---	---	5.38	13.87	21.51	30	PASS
Ant1	5530	TPC_H	75	1.25	9.18	13.87	25.31	30	PASS
		TPC_L	75	1.25	2.81	13.87	18.94	30	PASS
Ant2	5530	TPC_H	75	1.25	9.99	14.67	25.32	30	PASS
		TPC_L	75	1.25	1.59	14.67	16.92	30	PASS
total	5530	TPC_H	---	---	12.61	13.87	28.74	30	PASS
		TPC_L	---	---	5.25	13.87	21.38	30	PASS
Ant1	5610	TPC_H	76	1.19	10.02	13.87	26.15	30	PASS
		TPC_L	76	1.19	3.66	13.87	19.79	30	PASS
Ant2	5610	TPC_H	75	1.25	9.76	14.67	25.09	30	PASS
		TPC_L	75	1.25	3.15	14.67	18.48	30	PASS
total	5610	TPC_H	---	---	12.90	13.87	29.03	30	PASS
		TPC_L	---	---	6.42	13.87	22.55	30	PASS
Ant1	5775		75	1.25	16.11	30	32.24	---	PASS
Ant2	5775		75	1.25	16.23	30	31.56	---	PASS
total	5775		---	---	19.18	30	35.31	---	PASS

## 9. Power Spectral Density

### 9.1. Block diagram of test setup



### 9.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	17 dBm/MHz	5150-5250
	11 dBm/MHz	5250-5350
	11 dBm/MHz	5470 - 5725
	30 dBm/500 kHz	5725-5850

**Note:**

This EUT supports CDD, and antenna gains are equal, so Directional gain =  $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows:

For power spectral density measurements,

$N_{ANT} = 2, N_{SS} = 1$ . So Directional gain =  $G_{ANT} + \text{Array Gain} = 10 \log (N_{ANT}/ N_{SS}) \text{ dB} = 16.13 + 10 \log(2/1) \text{ dB} = 19.14$ .

For UNII-1: This EUT belong fixed point-to-point U-NII devices as well as the directional antenna gain less than 23dBi, so the maximum power spectral density limit doesn't need to reduce.

For UNII-2A and UNII-2C: The directional antenna gain greater than 6 dBi, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi, so power spectral density limit  $11 \text{ dBm/MHz} - (19.14 - 6) \text{ dB} = -2.14 \text{ dBm/MHz}$

For UNII-3: The power spectral density limit  $30 \text{ dBm/500kHz} - (19.14 - 6) = 16.86 \text{ dBm/500kHz}$ .

### 9.3. Test procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW.

Connect the UUT to the spectrum analyser and use the following settings:

5150 MHz~5250 MHz, 5250 MHz~5350 MHz, 5470 MHz~5725 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	1MHz
VBW	$\geq 3 \times \text{RBW}$

Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

5725 MHz-5850 MHz

Center Frequency	The centre frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

#### 9.4. Test result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	3.59	$\leq 17.00$	PASS
	Ant2	5180	3.38	$\leq 17.00$	PASS
	total	5180	6.50	$\leq 17.00$	PASS
	Ant1	5200	4.01	$\leq 17.00$	PASS
	Ant2	5200	3.11	$\leq 17.00$	PASS
	total	5200	6.59	$\leq 17.00$	PASS
	Ant1	5240	3.78	$\leq 17.00$	PASS
	Ant2	5240	2.52	$\leq 17.00$	PASS
	total	5240	6.21	$\leq 17.00$	PASS
	Ant1	5260	-6.01	$\leq 0.87$	PASS
	Ant2	5260	-6.03	$\leq 1.67$	PASS
	total	5260	-3.01	$\leq -2.14$	PASS
	Ant1	5280	-5.9	$\leq 0.87$	PASS
	Ant2	5280	-5.97	$\leq 1.67$	PASS
	total	5280	-2.92	$\leq -2.14$	PASS
	Ant1	5320	-7.4	$\leq 0.87$	PASS
	Ant2	5320	-6.19	$\leq 1.67$	PASS
	total	5320	-3.74	$\leq -2.14$	PASS
	Ant1	5500	-7.31	$\leq 0.87$	PASS
	Ant2	5500	-5.83	$\leq 1.67$	PASS
	total	5500	-3.50	$\leq -2.14$	PASS
	Ant1	5580	-5.99	$\leq 0.87$	PASS
	Ant2	5580	-5.36	$\leq 1.67$	PASS
	total	5580	-2.65	$\leq -2.14$	PASS
	Ant1	5700	-7.11	$\leq 0.87$	PASS
	Ant2	5700	-6.69	$\leq 1.67$	PASS
	total	5700	-3.88	$\leq -2.14$	PASS
	Ant1	5745	1.7	$\leq 19.87$	PASS
	Ant2	5745	1.73	$\leq 20.67$	PASS
	total	5745	4.73	$\leq 16.86$	PASS
Ant1	5785	2.2	$\leq 19.87$	PASS	
Ant2	5785	1.98	$\leq 20.67$	PASS	
total	5785	5.10	$\leq 16.86$	PASS	
Ant1	5825	1.79	$\leq 19.87$	PASS	
Ant2	5825	3.31	$\leq 20.67$	PASS	
total	5825	5.63	$\leq 16.86$	PASS	
11N20MIMO	Ant1	5180	3.49	$\leq 17.00$	PASS
	Ant2	5180	3.45	$\leq 17.00$	PASS
	total	5180	6.48	$\leq 17.00$	PASS

	Ant1	5200	3.93	≤17.00	PASS
	Ant2	5200	3.28	≤17.00	PASS
	total	5200	6.63	≤17.00	PASS
	Ant1	5240	3.89	≤17.00	PASS
	Ant2	5240	2.84	≤17.00	PASS
	total	5240	6.41	≤17.00	PASS
	Ant1	5260	-6.74	≤0.87	PASS
	Ant2	5260	-6.2	≤1.67	PASS
	total	5260	-3.45	≤-2.14	PASS
	Ant1	5280	-6.77	≤0.87	PASS
	Ant2	5280	-6.19	≤1.67	PASS
	total	5280	-3.46	≤-2.14	PASS
	Ant1	5320	-8.1	≤0.87	PASS
	Ant2	5320	-6.41	≤1.67	PASS
	total	5320	-4.16	≤-2.14	PASS
	Ant1	5500	-7.8	≤0.87	PASS
	Ant2	5500	-6.04	≤1.67	PASS
	total	5500	-3.82	≤-2.14	PASS
	Ant1	5580	-6.57	≤0.87	PASS
	Ant2	5580	-5.68	≤1.67	PASS
	total	5580	-3.09	≤-2.14	PASS
	Ant1	5700	-7.3	≤0.87	PASS
	Ant2	5700	-6.86	≤1.67	PASS
	total	5700	-4.06	≤-2.14	PASS
	Ant1	5745	1.37	≤19.87	PASS
	Ant2	5745	1.4	≤20.67	PASS
	total	5745	4.40	≤16.86	PASS
	Ant1	5785	1.85	≤19.87	PASS
	Ant2	5785	2.28	≤20.67	PASS
	total	5785	5.08	≤16.86	PASS
	Ant1	5825	2.07	≤19.87	PASS
	Ant2	5825	2.94	≤20.67	PASS
	total	5825	5.54	≤16.86	PASS
	Ant1	5190	0.88	≤17.00	PASS
	Ant2	5190	0.49	≤17.00	PASS
	total	5190	3.70	≤17.00	PASS
	Ant1	5230	0.77	≤17.00	PASS
	Ant2	5230	-0.12	≤17.00	PASS
	total	5230	3.36	≤17.00	PASS
	Ant1	5270	-7.9	≤0.87	PASS
	Ant2	5270	-7.58	≤1.67	PASS
	total	5270	-4.73	≤-2.14	PASS
	Ant1	5310	-9.44	≤0.87	PASS
	Ant2	5310	-7.55	≤1.67	PASS
	total	5310	-5.38	≤-2.14	PASS
	Ant1	5510	-9.04	≤0.87	PASS
	Ant2	5510	-7.39	≤1.67	PASS
	total	5510	-5.13	≤-2.14	PASS
	Ant1	5550	-7.74	≤0.87	PASS
	Ant2	5550	-6.38	≤1.67	PASS
	total	5550	-4.00	≤-2.14	PASS
	Ant1	5670	-8.96	≤0.87	PASS
	Ant2	5670	-7.97	≤1.67	PASS
	total	5670	-5.43	≤-2.14	PASS
	Ant1	5755	-1.46	≤19.87	PASS
	Ant2	5755	-1.34	≤20.67	PASS
	total	5755	1.61	≤16.86	PASS
	Ant1	5795	-1.18	≤19.87	PASS
	Ant2	5795	-1.15	≤20.67	PASS
	total	5795	1.85	≤16.86	PASS
	Ant1	5180	3.78	≤17.00	PASS
	Ant2	5180	3.33	≤17.00	PASS
	total	5180	6.57	≤17.00	PASS
	Ant1	5200	3.87	≤17.00	PASS
11N40MIMO					
11AC20MIMO					

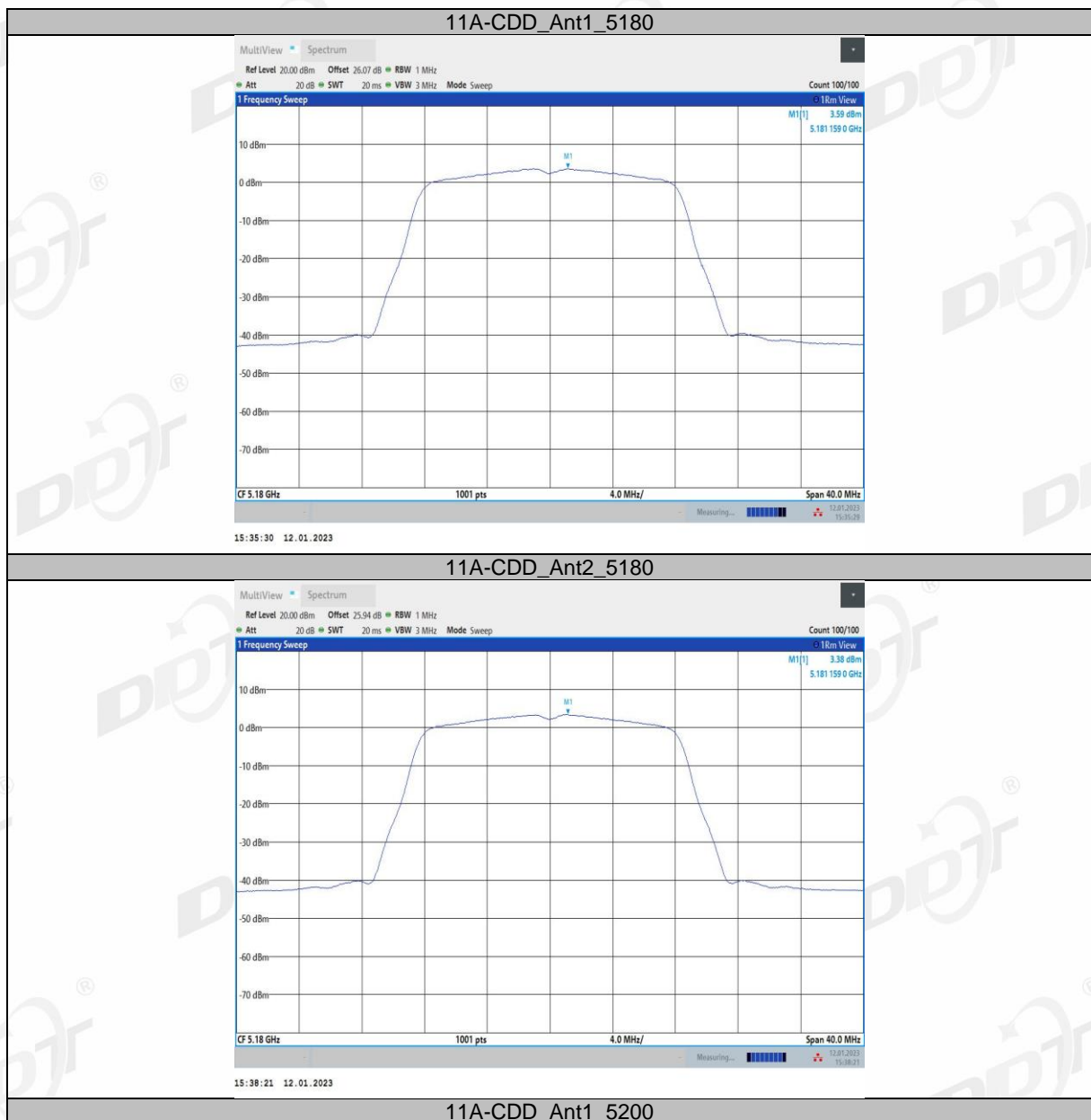


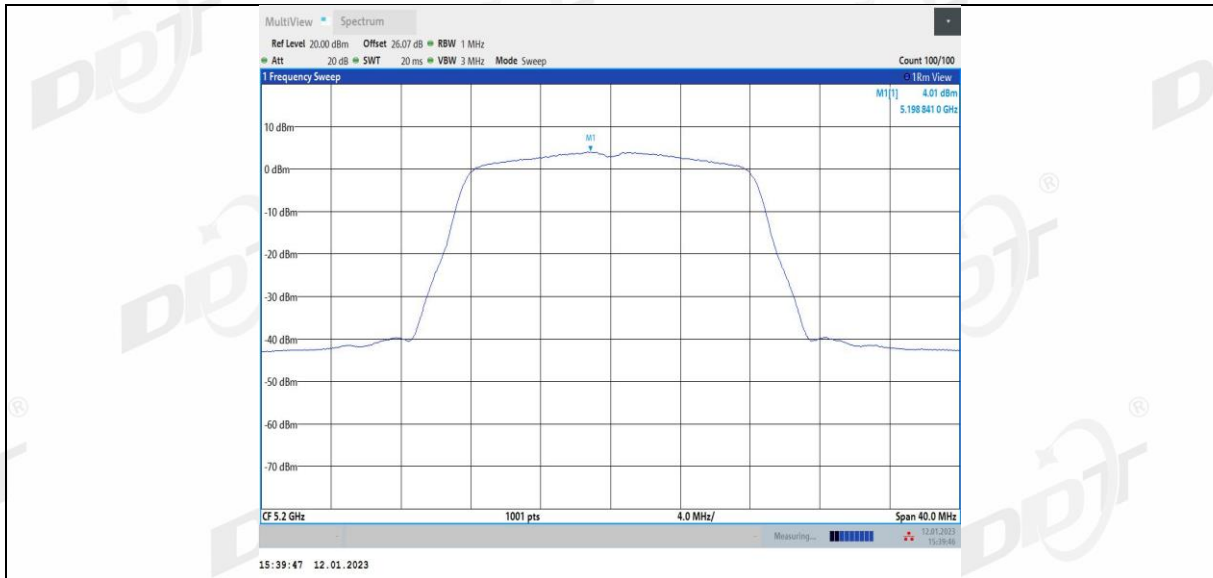
	Ant2	5200	3.24	≤17.00	PASS
	total	5200	6.58	≤17.00	PASS
	Ant1	5240	3.92	≤17.00	PASS
	Ant2	5240	2.9	≤17.00	PASS
	total	5240	6.45	≤17.00	PASS
	Ant1	5260	-6.71	≤0.87	PASS
	Ant2	5260	-6.27	≤1.67	PASS
	total	5260	-3.47	≤-2.14	PASS
	Ant1	5280	-6.44	≤0.87	PASS
	Ant2	5280	-6.19	≤1.67	PASS
	total	5280	-3.30	≤-2.14	PASS
	Ant1	5320	-7.81	≤0.87	PASS
	Ant2	5320	-6.32	≤1.67	PASS
	total	5320	-3.99	≤-2.14	PASS
	Ant1	5500	-7.57	≤0.87	PASS
	Ant2	5500	-5.9	≤1.67	PASS
	total	5500	-3.64	≤-2.14	PASS
	Ant1	5580	-6.42	≤0.87	PASS
	Ant2	5580	-5.63	≤1.67	PASS
	total	5580	-3.00	≤-2.14	PASS
	Ant1	5700	-7.2	≤0.87	PASS
	Ant2	5700	-6.82	≤1.67	PASS
	total	5700	-4.00	≤-2.14	PASS
	Ant1	5745	1.33	≤19.87	PASS
	Ant2	5745	1.94	≤20.67	PASS
	total	5745	4.66	≤16.86	PASS
	Ant1	5785	1.83	≤19.87	PASS
	Ant2	5785	1.64	≤20.67	PASS
	total	5785	4.75	≤16.86	PASS
	Ant1	5825	2.06	≤19.87	PASS
	Ant2	5825	2.55	≤20.67	PASS
	total	5825	5.32	≤16.86	PASS
	Ant1	5190	0.44	≤17.00	PASS
	Ant2	5190	-0.08	≤17.00	PASS
	total	5190	3.20	≤17.00	PASS
	Ant1	5230	0.74	≤17.00	PASS
	Ant2	5230	-0.09	≤17.00	PASS
	total	5230	3.36	≤17.00	PASS
	Ant1	5270	-7.15	≤1.67	PASS
	Ant2	5270	-6.88	≤0.87	PASS
	total	5270	-4.00	≤-2.14	PASS
	Ant1	5310	-8.59	≤1.67	PASS
	Ant2	5310	-7.57	≤0.87	PASS
	total	5310	-5.04	≤-2.14	PASS
	Ant1	5510	-8.49	≤1.67	PASS
	Ant2	5510	-7.1	≤0.87	PASS
	total	5510	-4.73	≤-2.14	PASS
	Ant1	5550	-7.32	≤1.67	PASS
	Ant2	5550	-6.49	≤0.87	PASS
	total	5550	-3.87	≤-2.14	PASS
	Ant1	5670	-8.61	≤1.67	PASS
	Ant2	5670	-8.14	≤0.87	PASS
	total	5670	-5.36	≤-2.14	PASS
	Ant1	5755	-1.4	≤19.87	PASS
	Ant2	5755	-1.43	≤20.67	PASS
	total	5755	1.60	≤16.86	PASS
	Ant1	5795	-0.83	≤19.87	PASS
	Ant2	5795	-1.12	≤20.67	PASS
	total	5795	2.04	≤16.86	PASS
	Ant1	5210	-2.06	≤17.00	PASS
	Ant2	5210	-2.76	≤17.00	PASS
	total	5210	0.61	≤17.00	PASS
	Ant1	5290	-7.93	≤1.67	PASS
	Ant2	5290	-7.9	≤0.87	PASS
11AC40MIMO					
11AC80MIMO					

	total	5290	-4.90	≤-2.14	PASS
	Ant1	5530	-8.45	≤1.67	PASS
	Ant2	5530	-7.31	≤0.87	PASS
	total	5530	-4.83	≤-2.14	PASS
	Ant1	5610	-8	≤1.67	PASS
	Ant2	5610	-7.38	≤0.87	PASS
	total	5610	-4.67	≤-2.14	PASS
	Ant1	5775	-4.47	≤19.87	PASS
	Ant2	5775	-4.07	≤20.67	PASS
	total	5775	-1.26	≤16.86	PASS

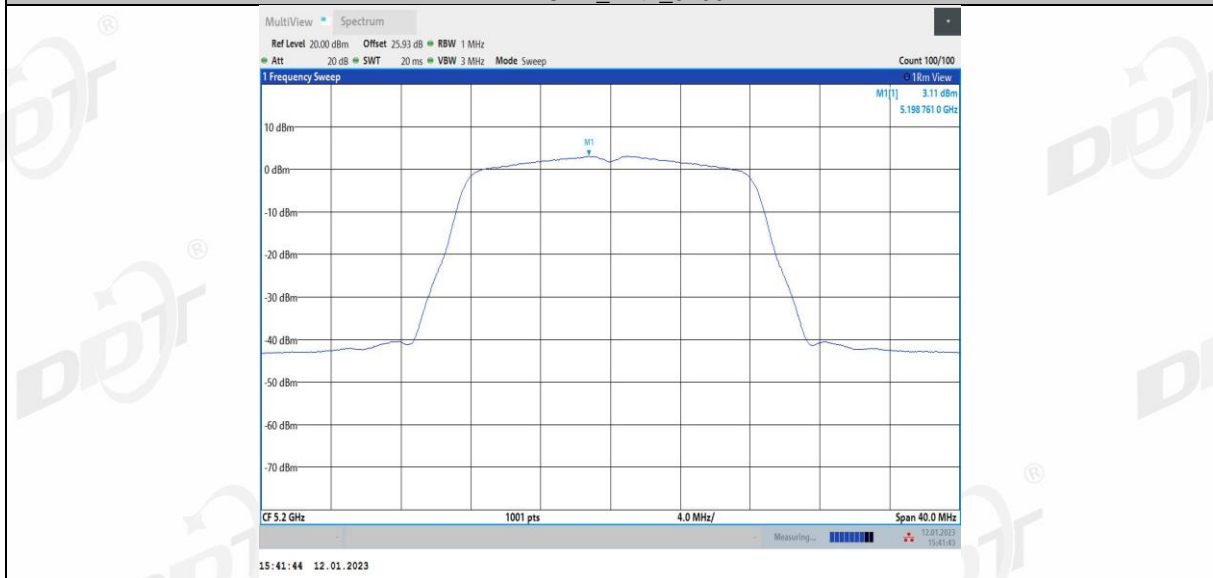
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

### 9.5. Test graphs

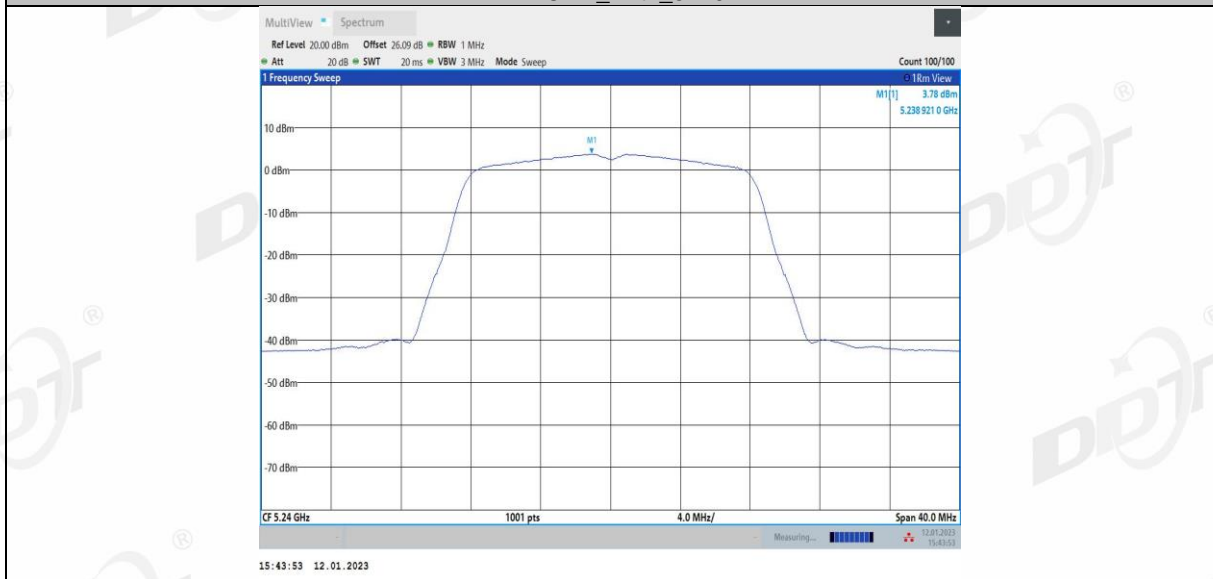




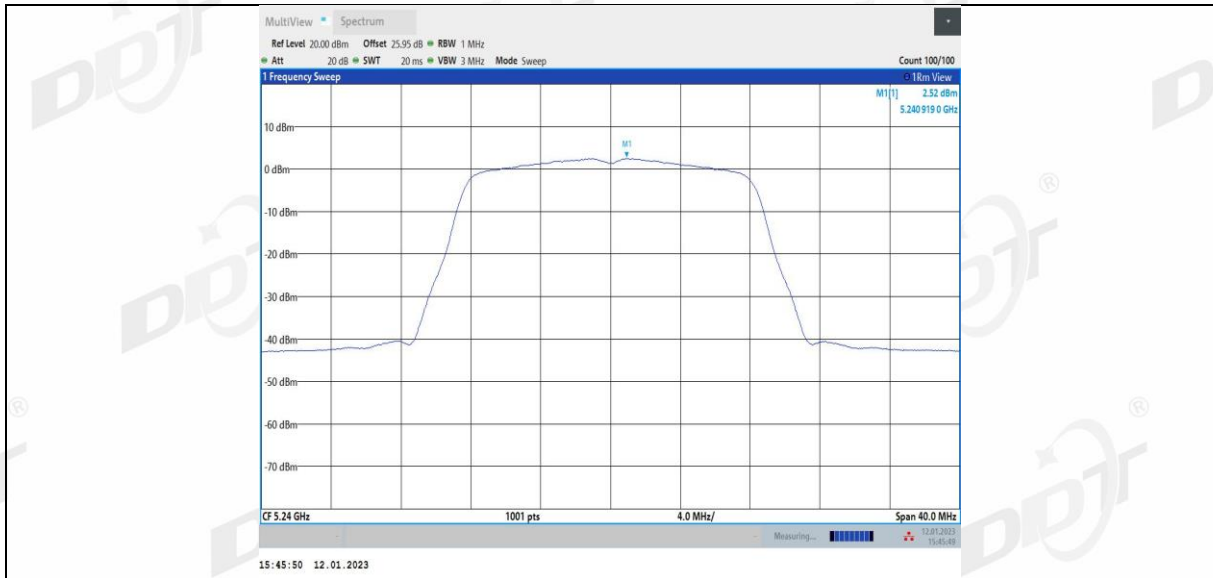
11A-CDD\_Ant2\_5200



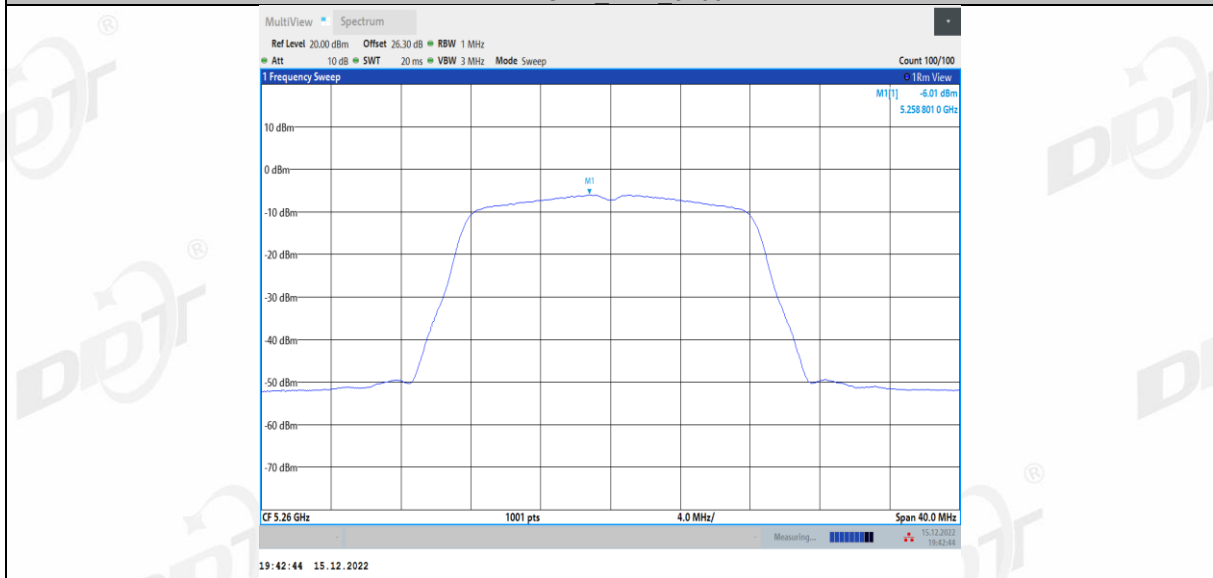
11A-CDD\_Ant1\_5240



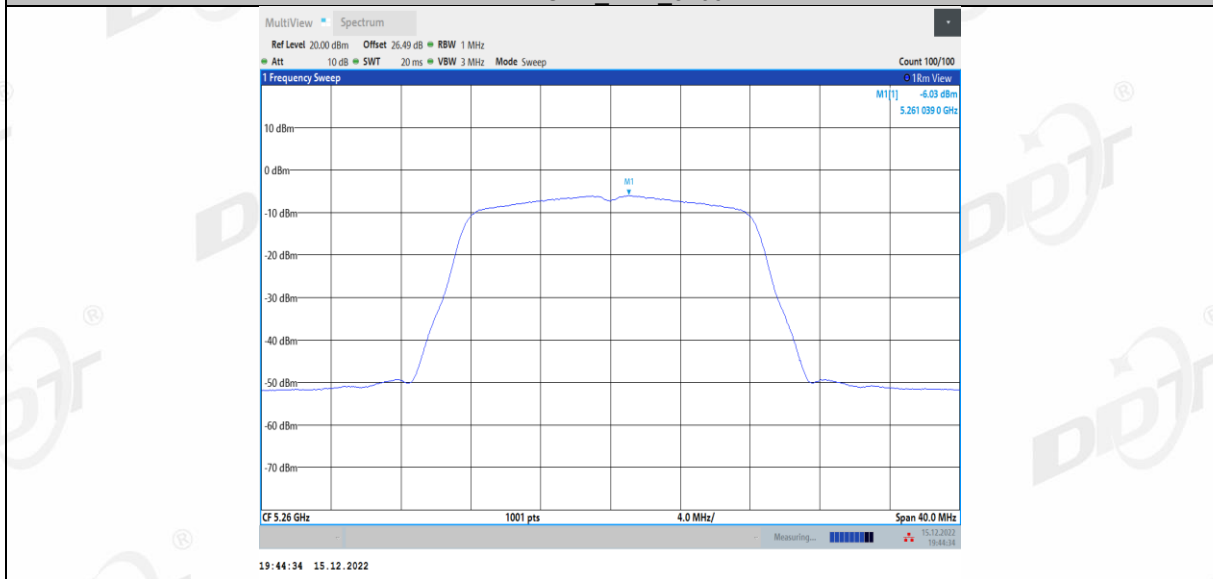
11A-CDD\_Ant2\_5240



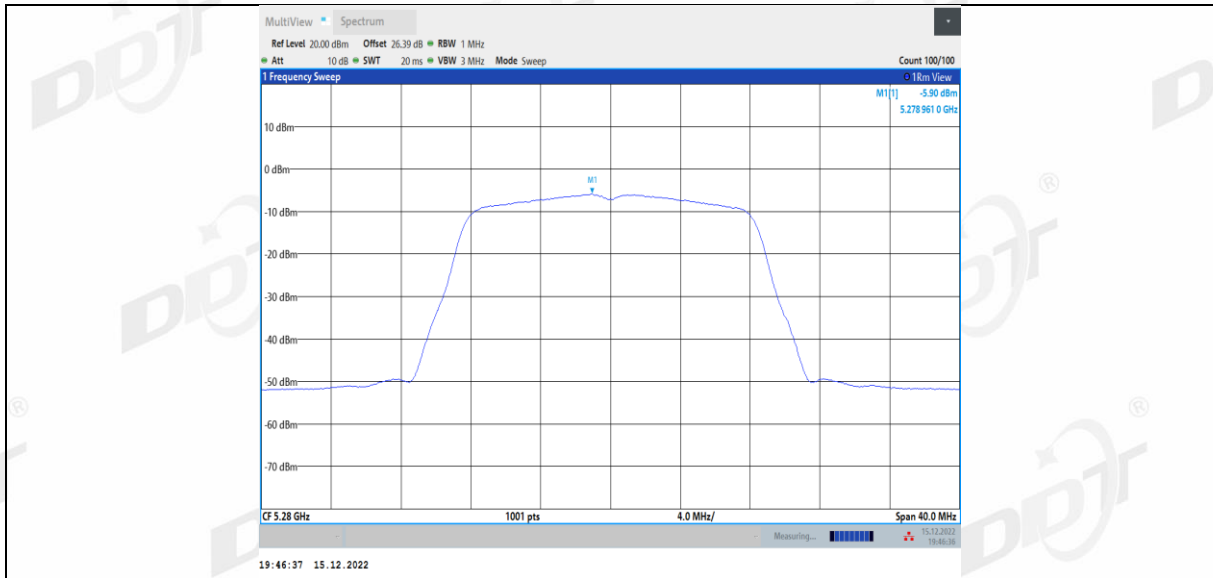
11A-CDD Ant1 5260



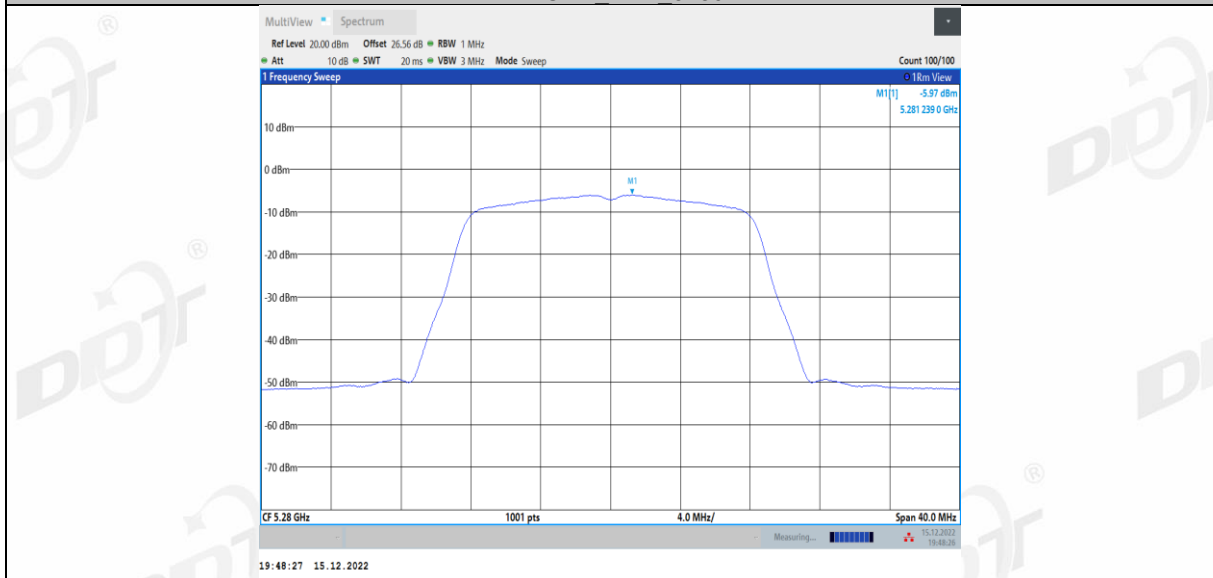
11A-CDD Ant2 5260



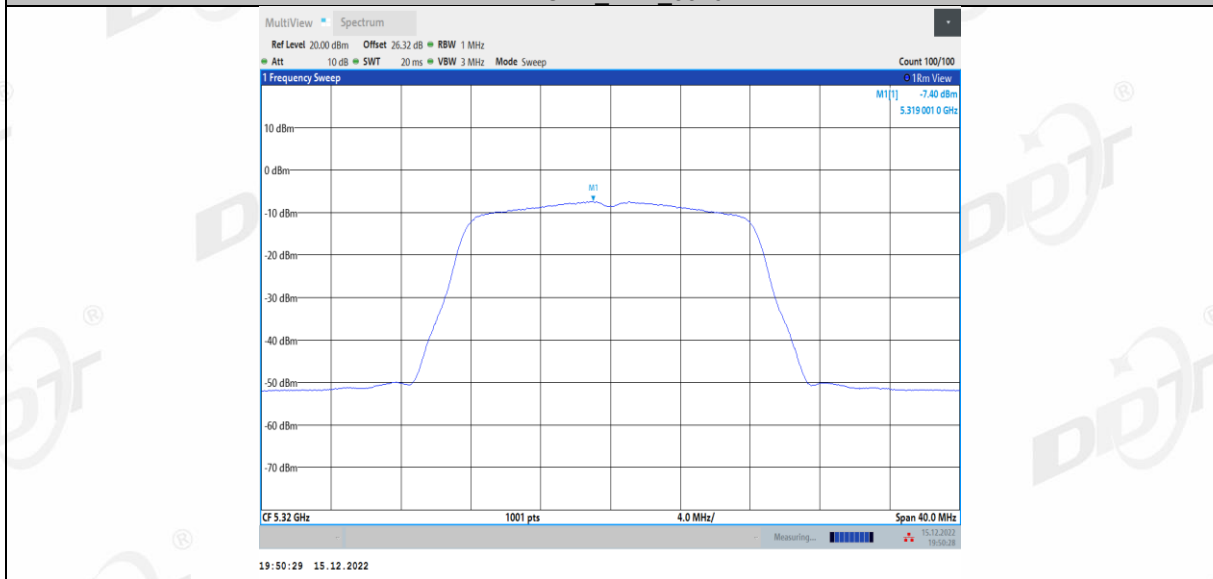
11A-CDD Ant1 5280



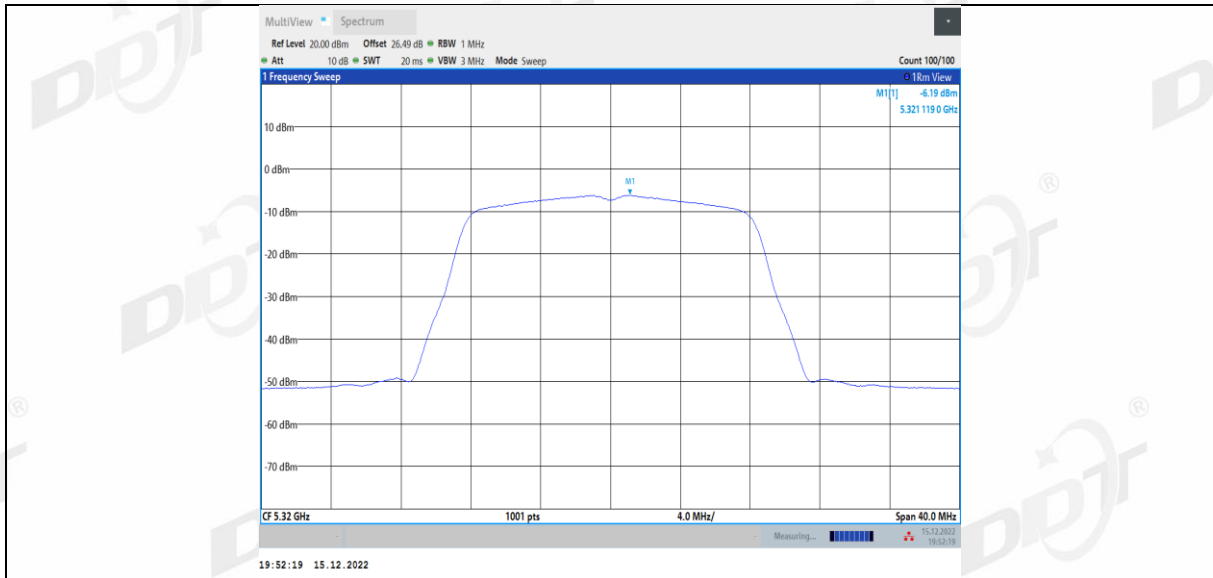
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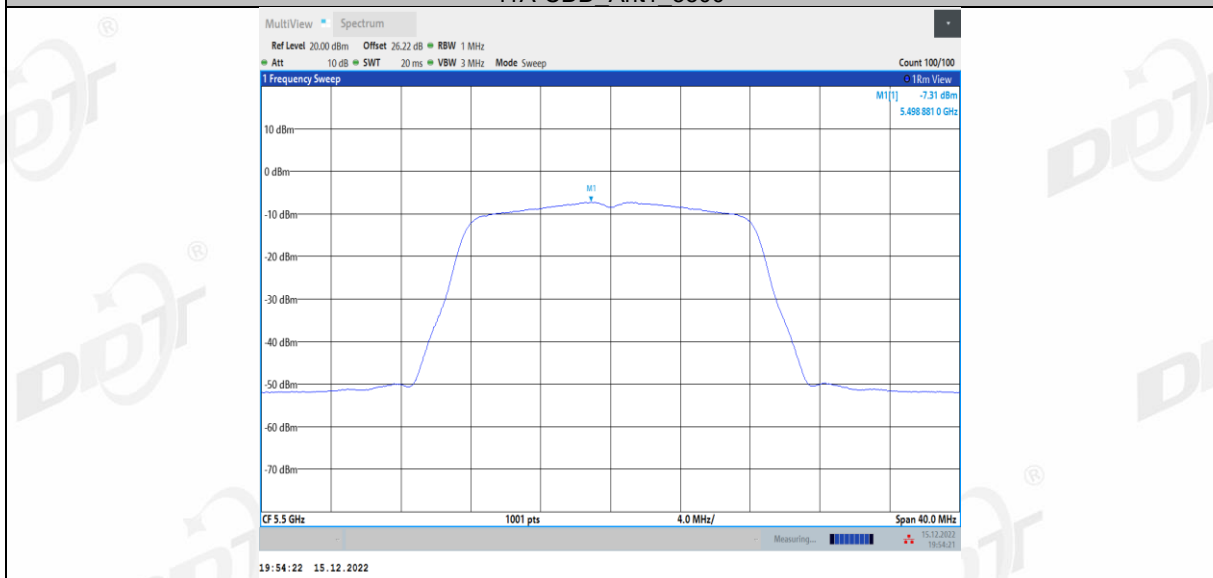
11A-CDD Ant1 5320



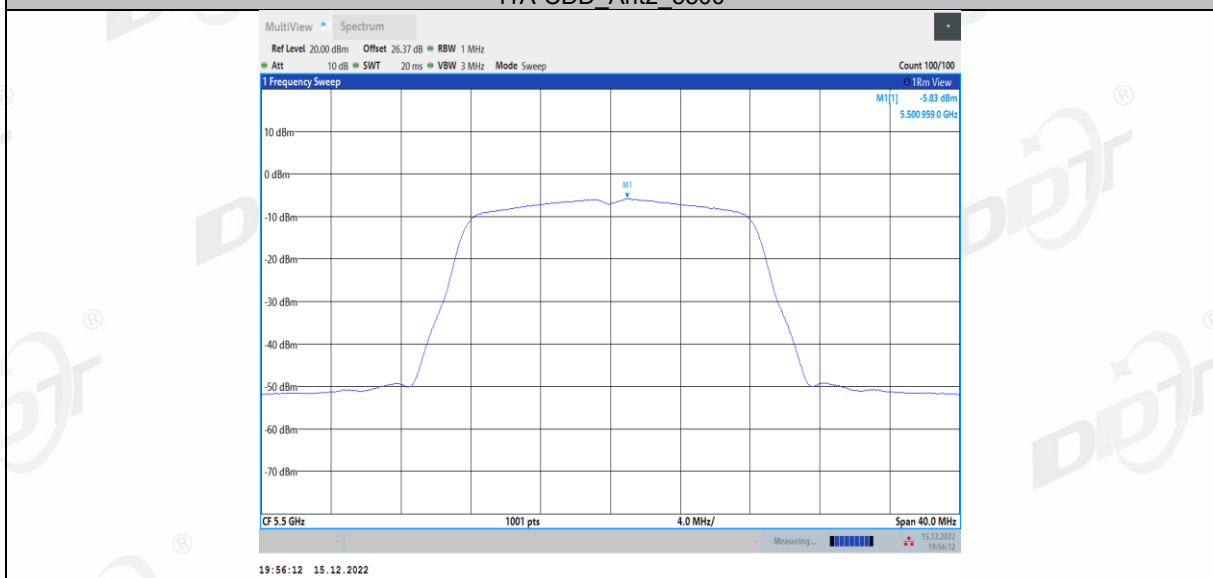
11A-CDD Ant2 5320



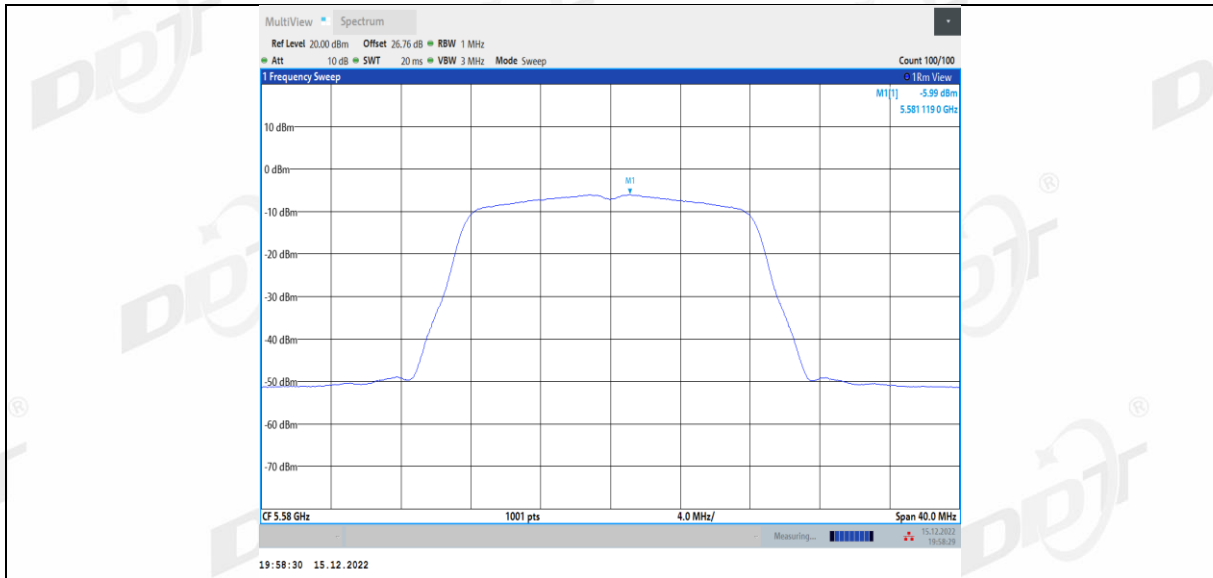
11A-CDD Ant1 5500



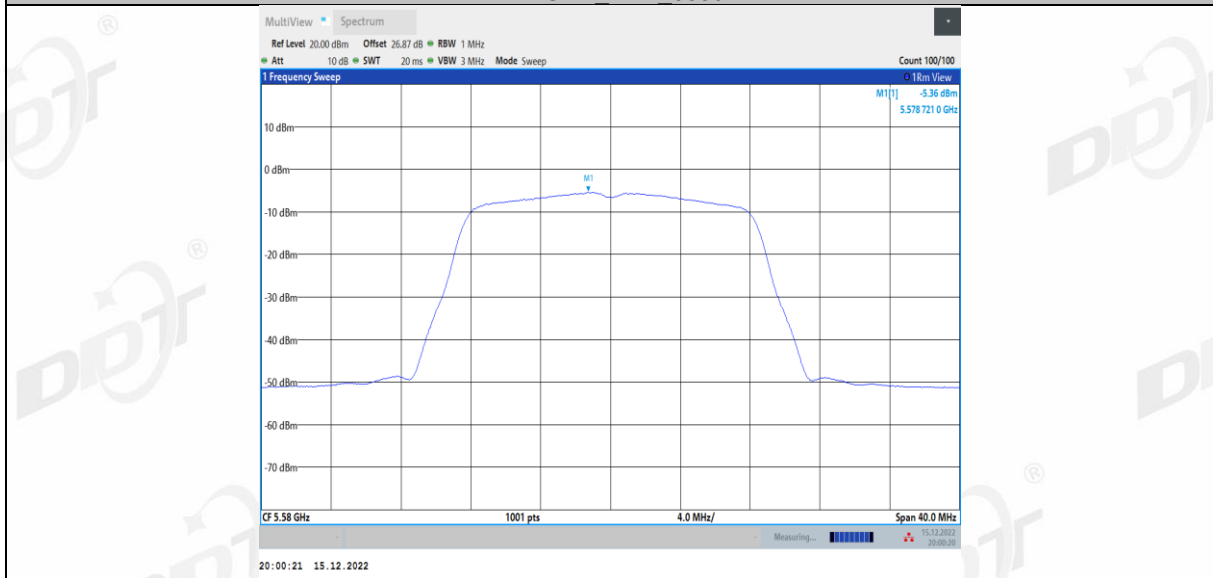
11A-CDD Ant2 5500



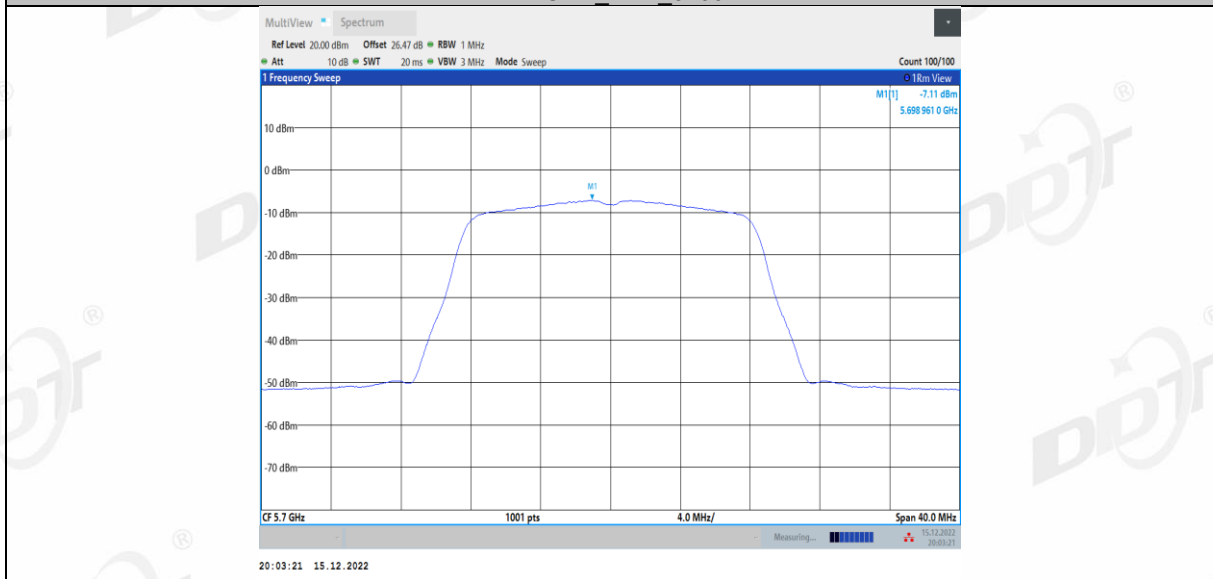
11A-CDD Ant1 5580



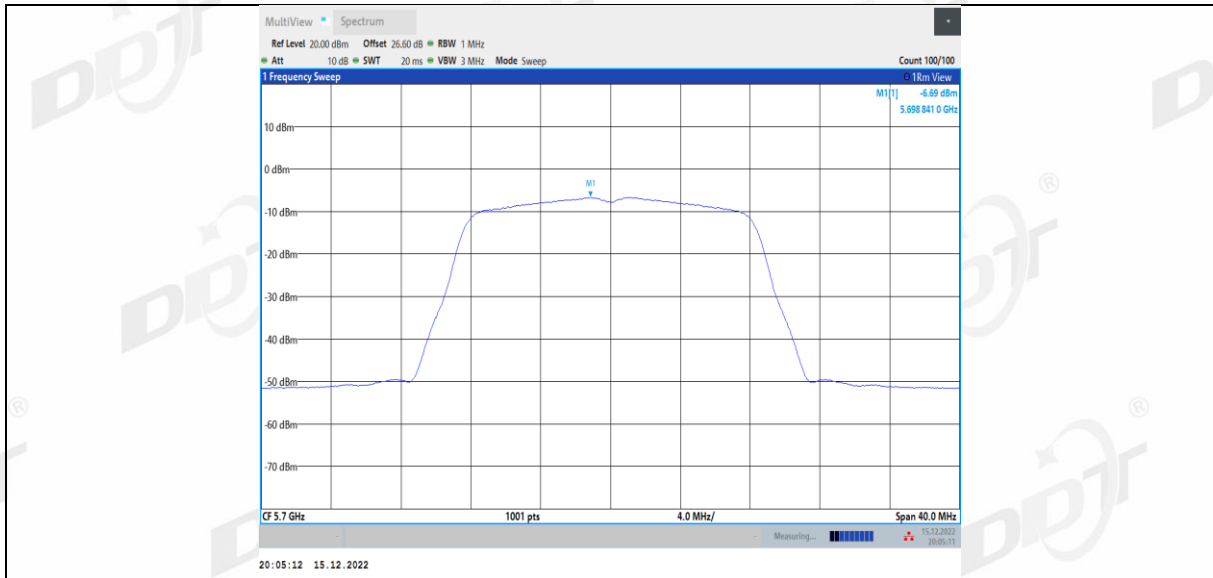
11A-CDD Ant2 5580



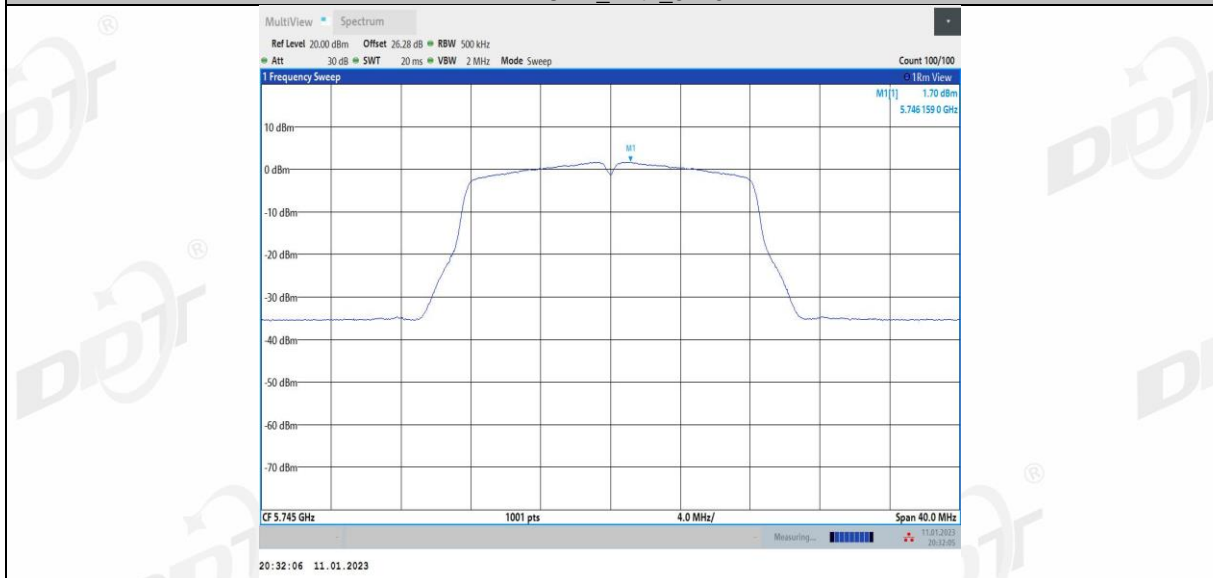
11A-CDD Ant1 5700



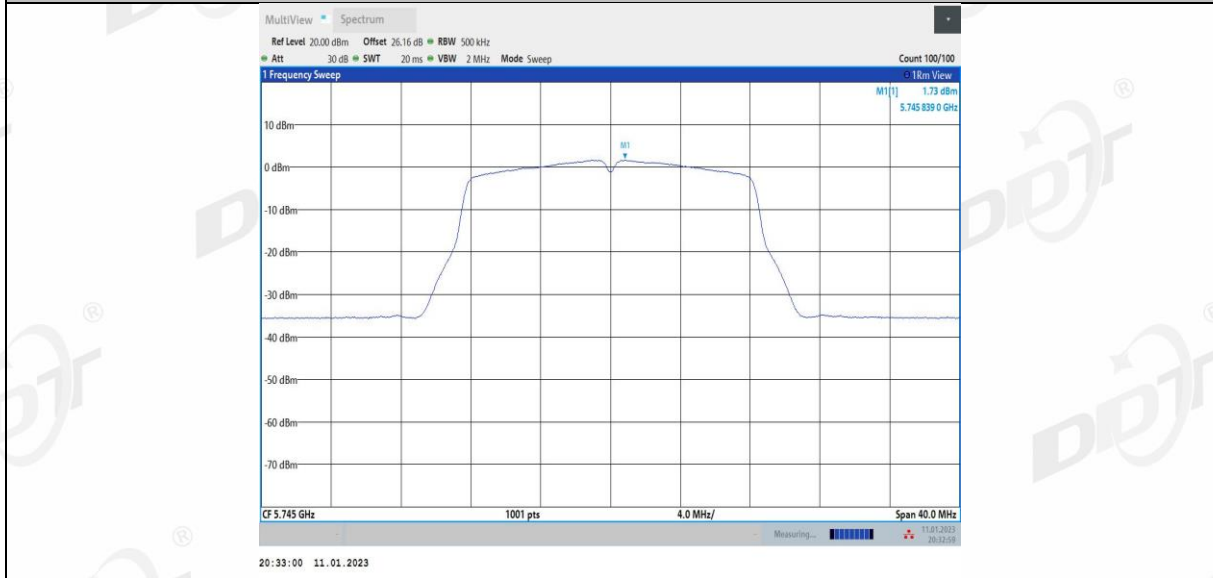
11A-CDD Ant2 5700



11A-CDD\_Ant1\_5745

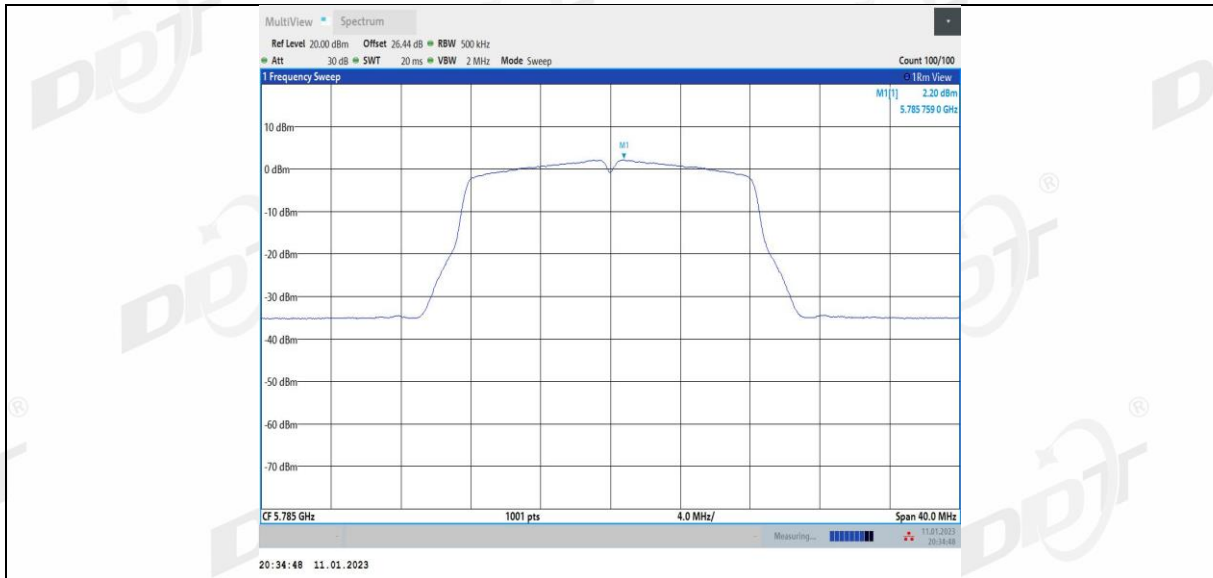


11A-CDD\_Ant2\_5745

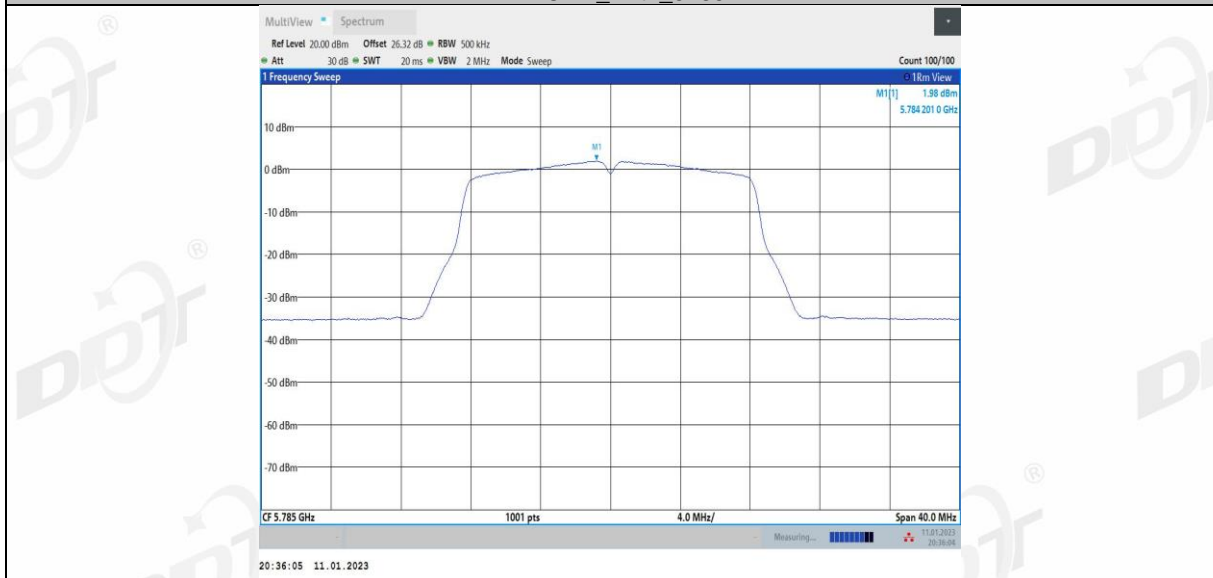


11A-CDD\_Ant1\_5785

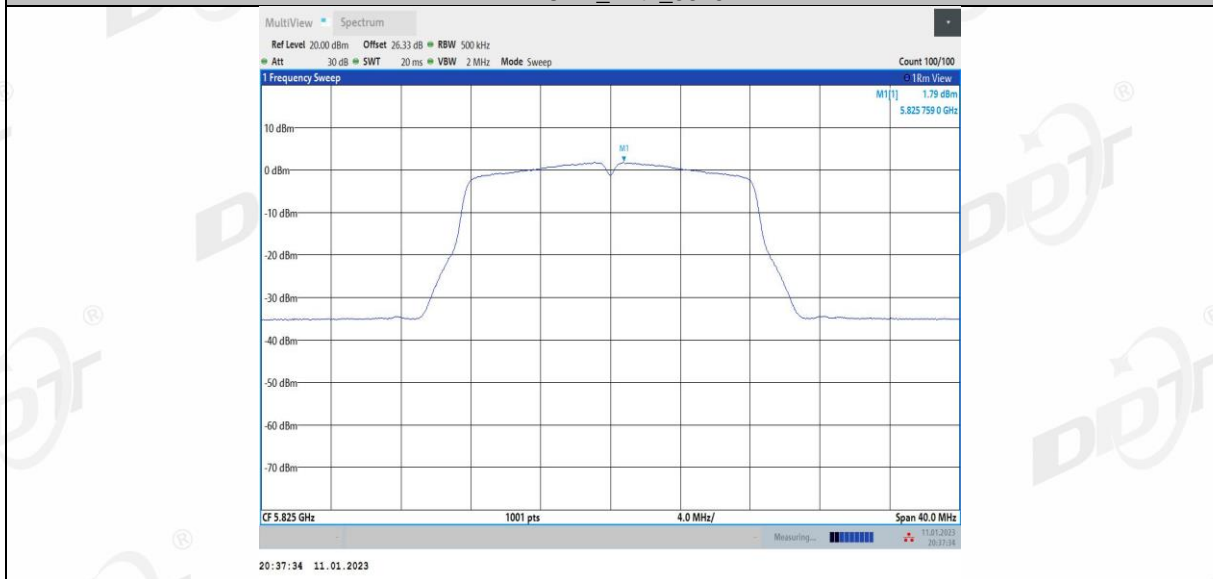




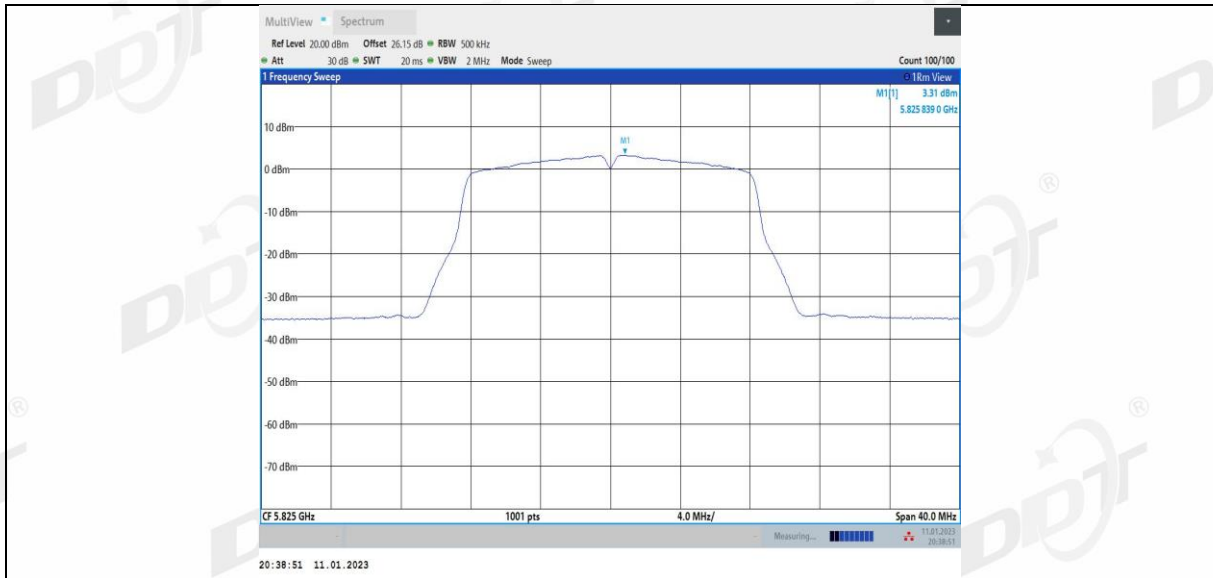
11A-CDD\_Ant2\_5785



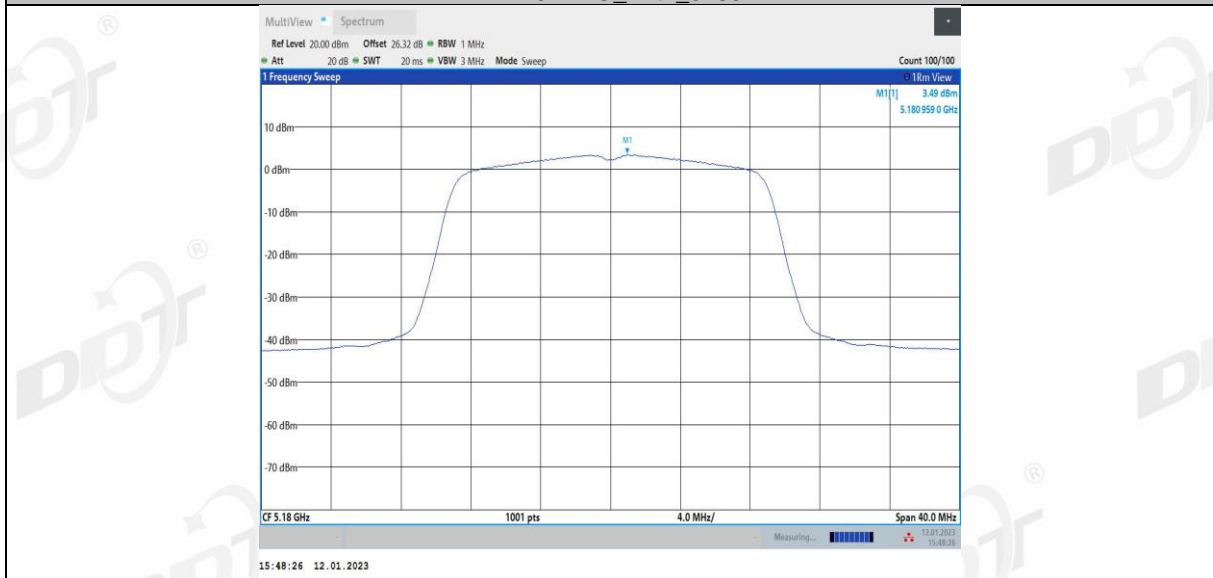
11A-CDD\_Ant1\_5825



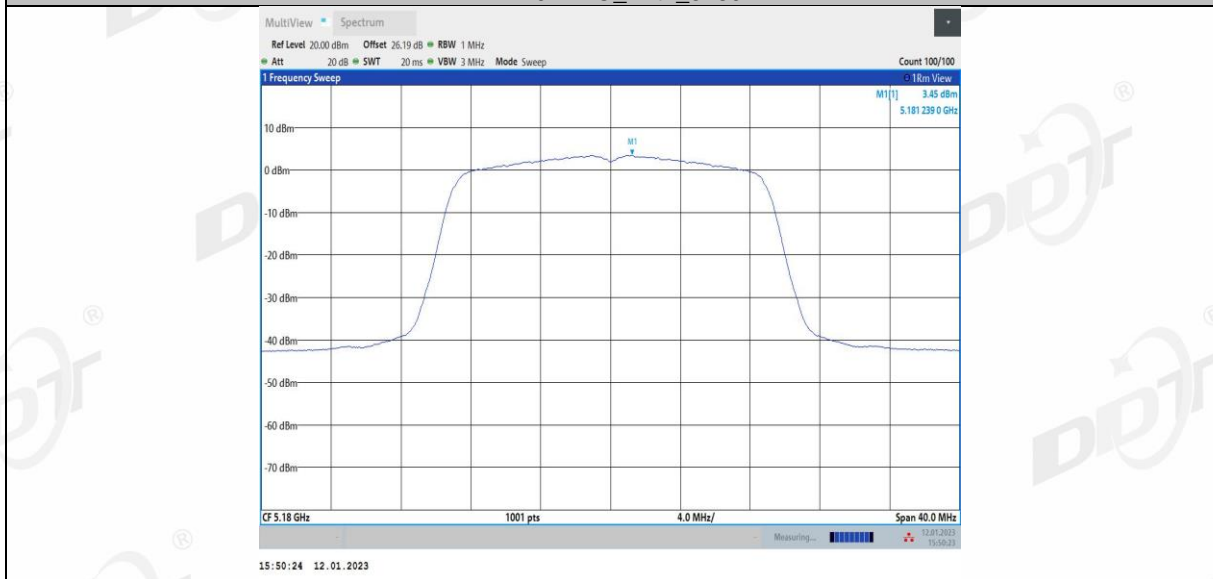
11A-CDD\_Ant2\_5825



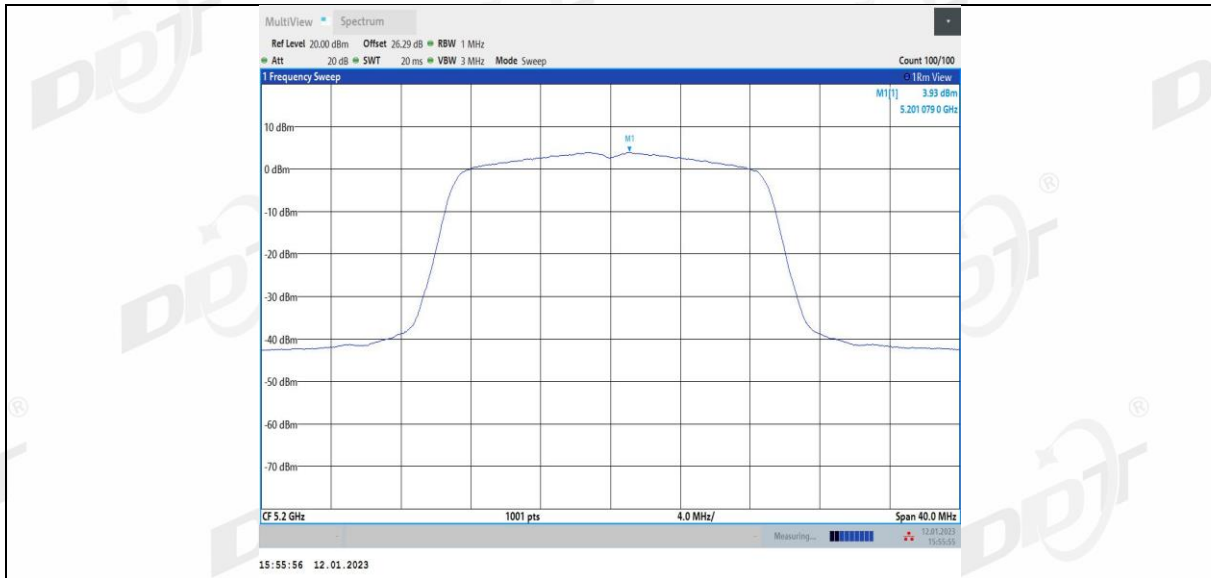
11N20MIMO\_Ant1\_5180



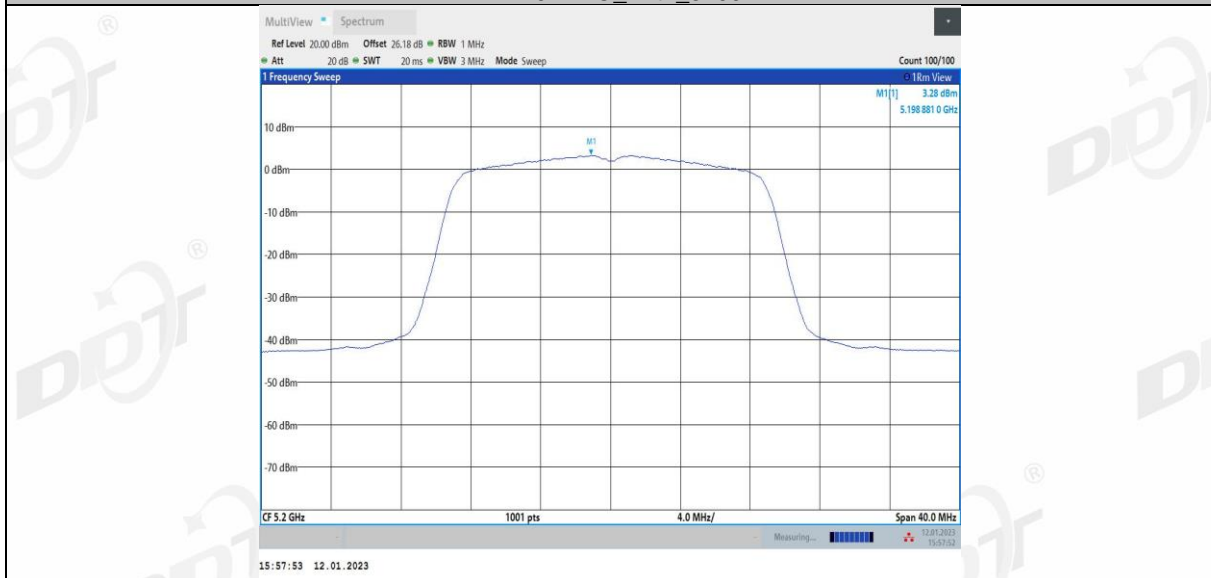
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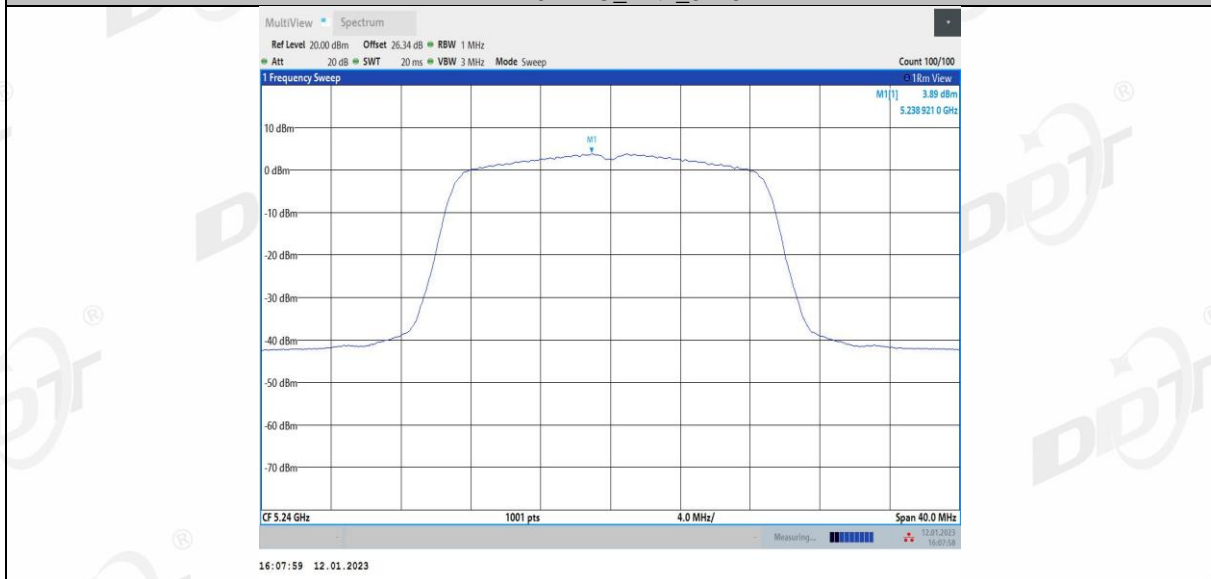
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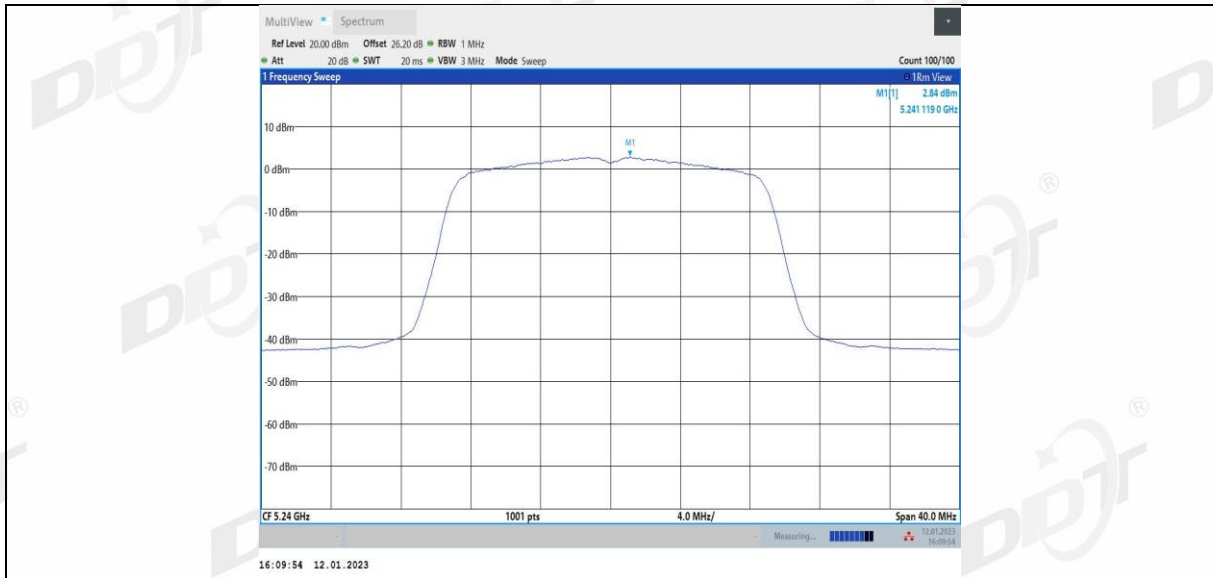
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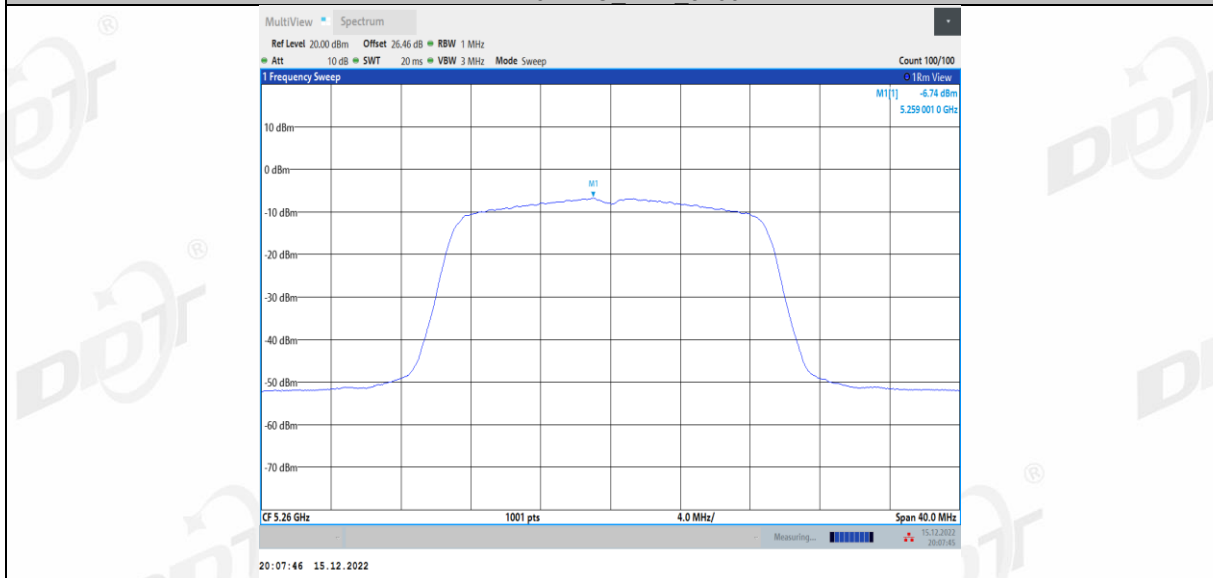
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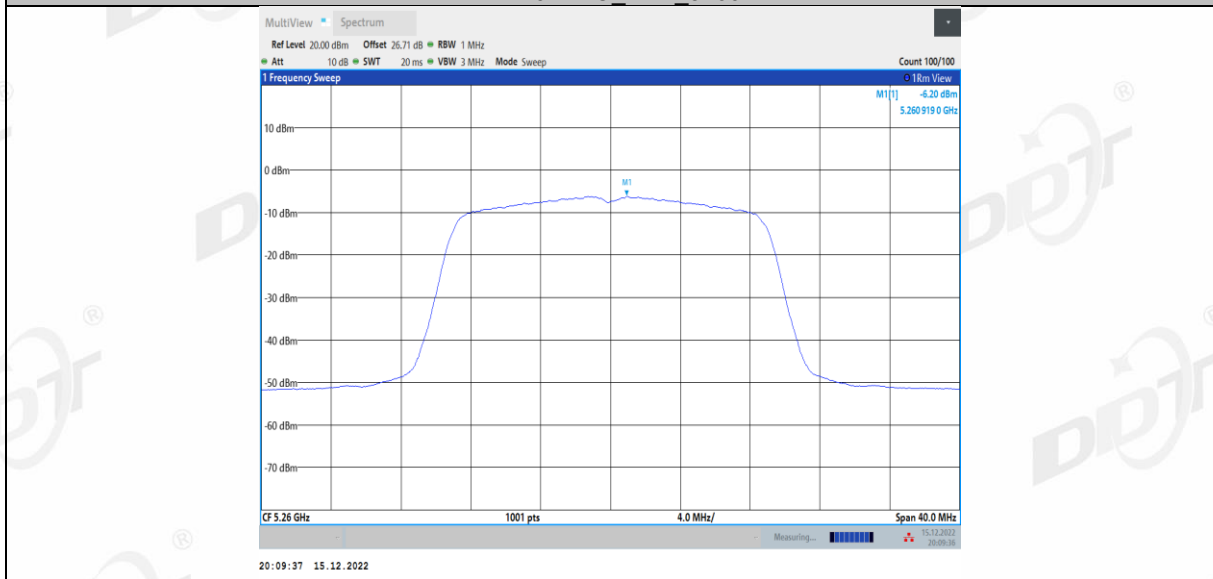
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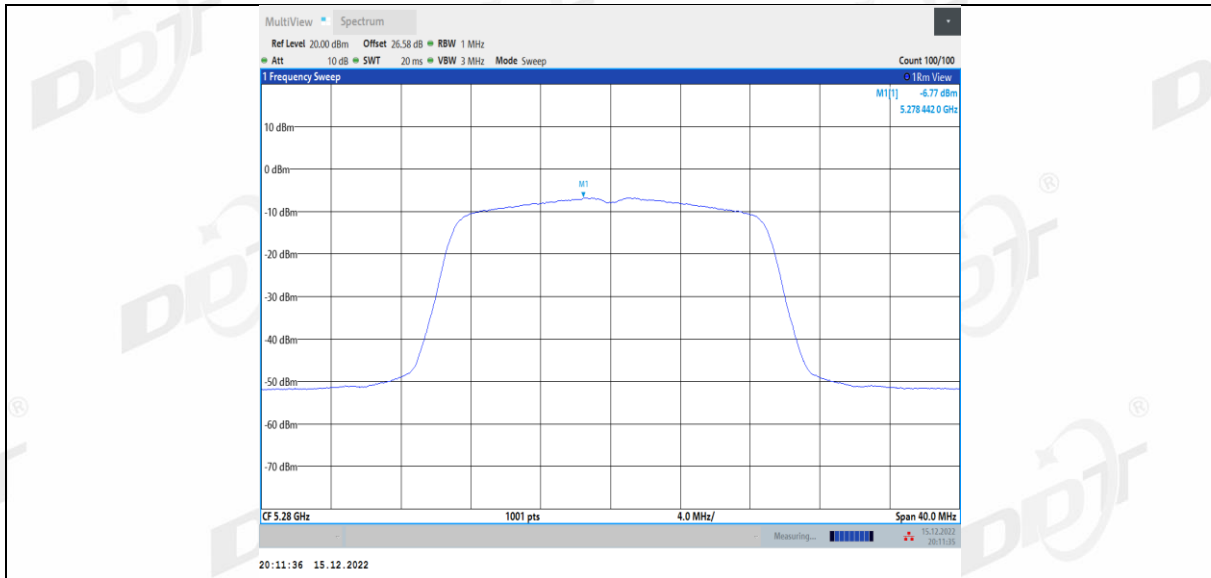
11N20MIMO Ant1 5260



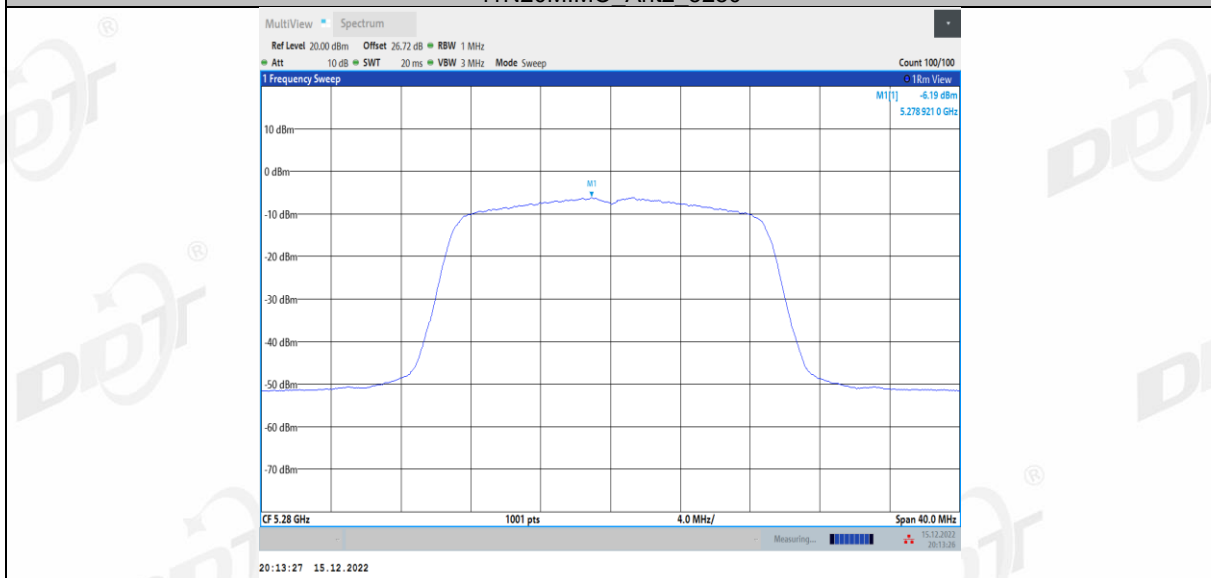
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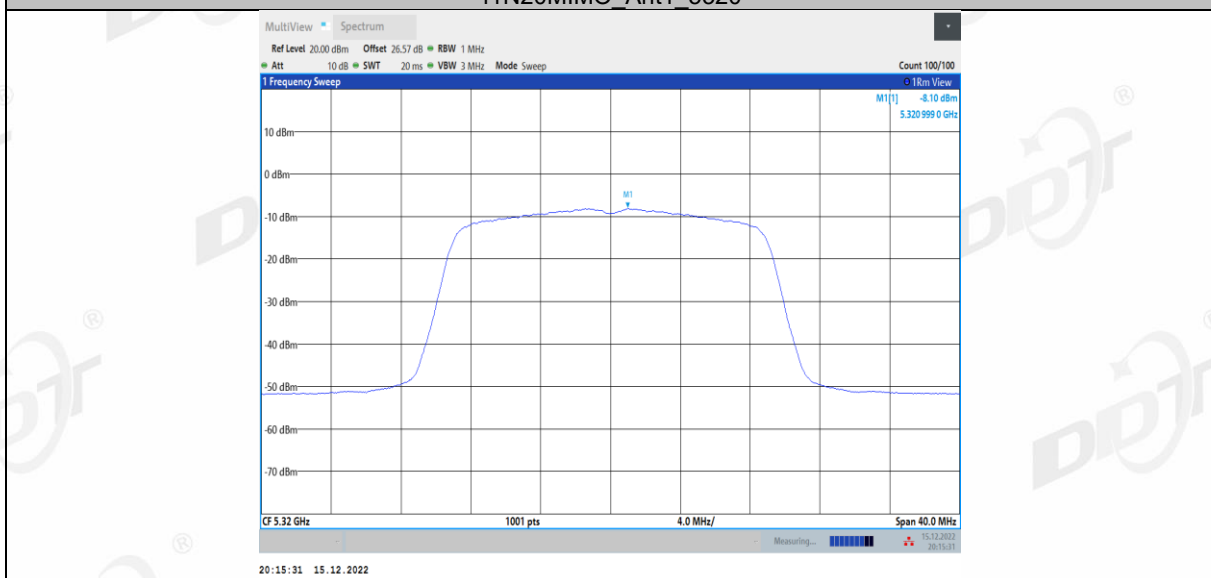
11N20MIMO Ant1 5280



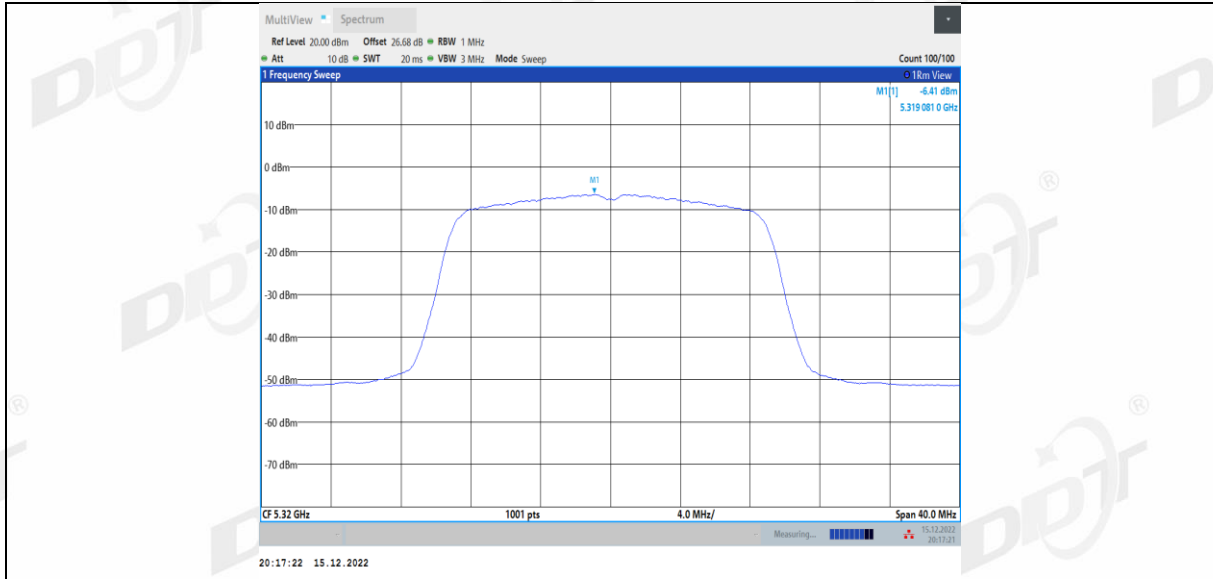
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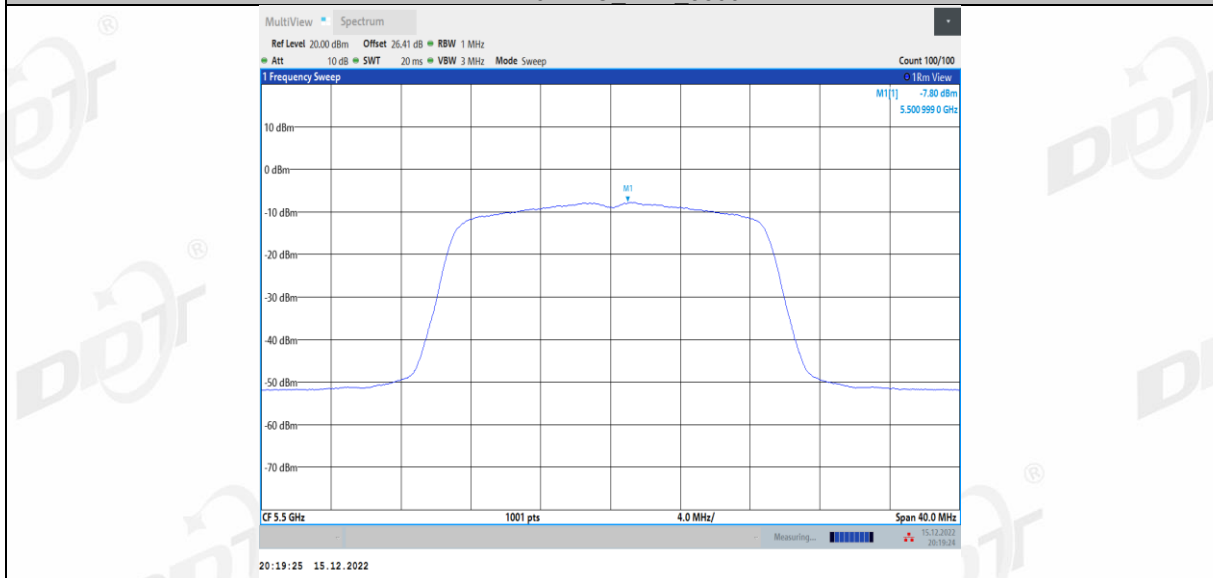
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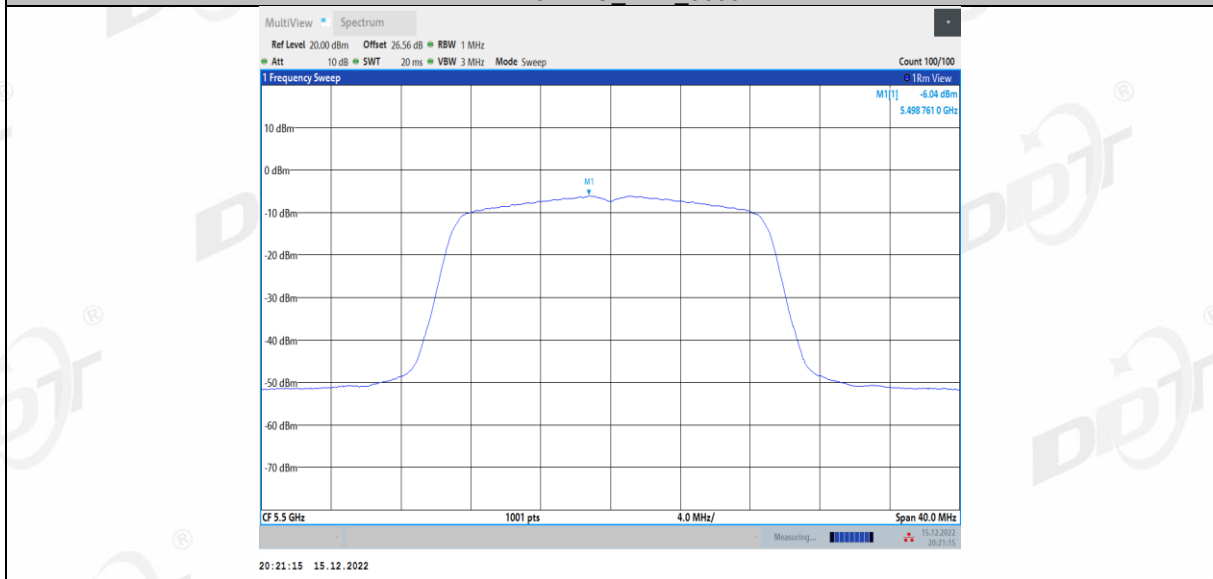
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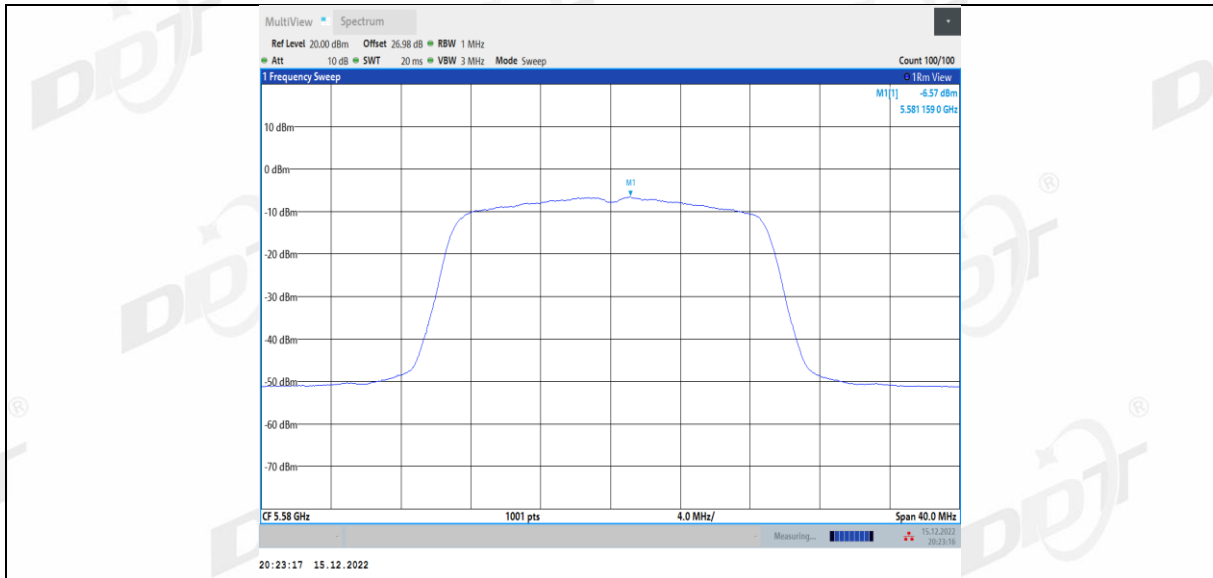
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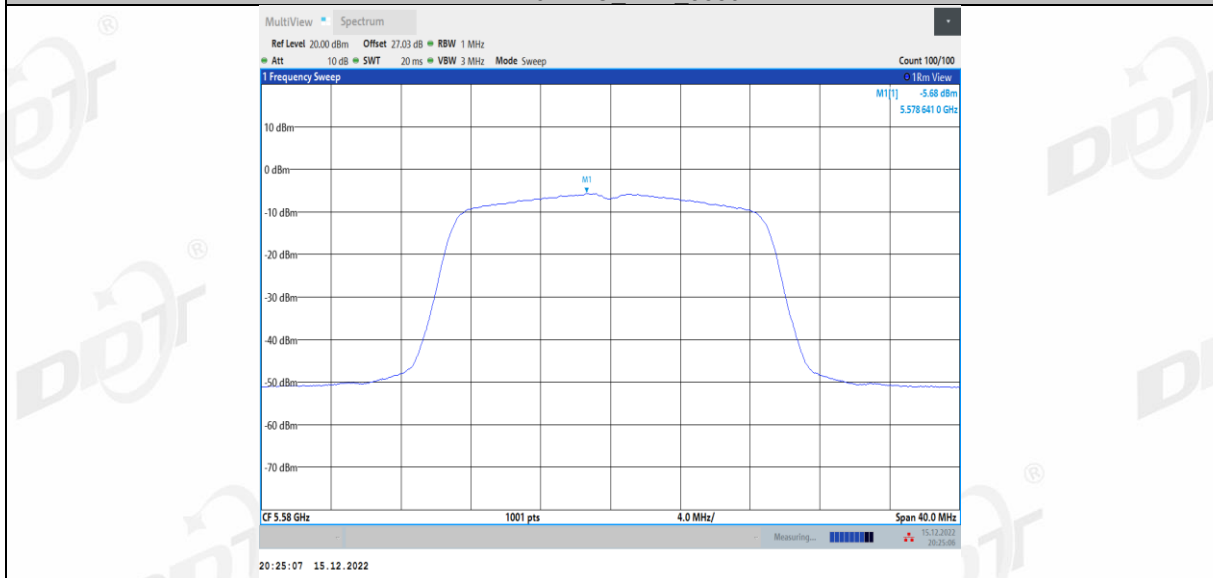
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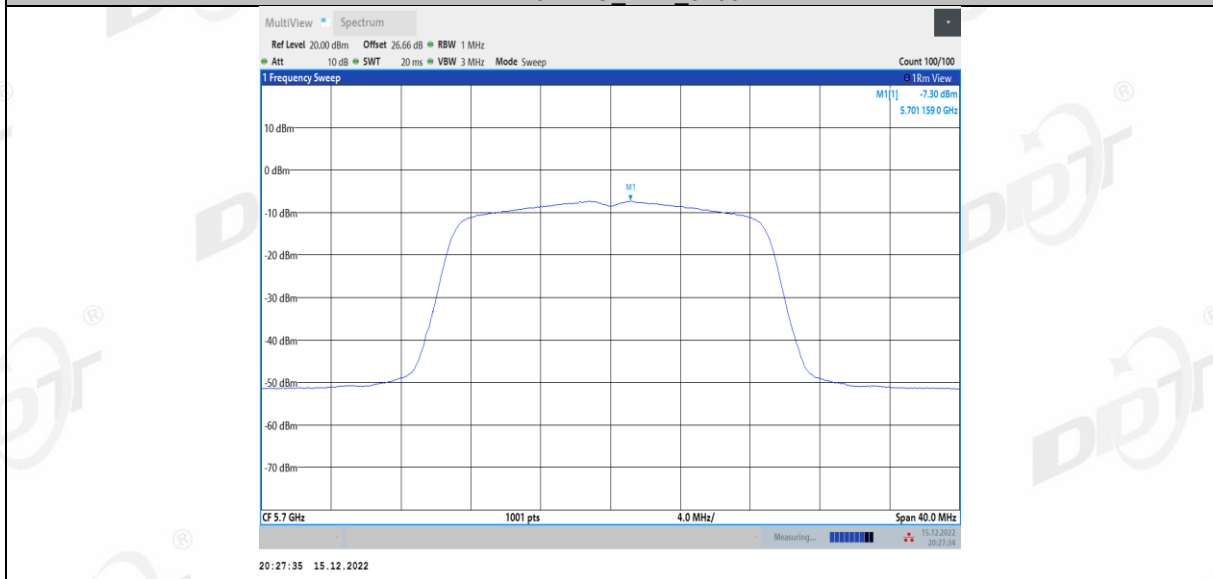
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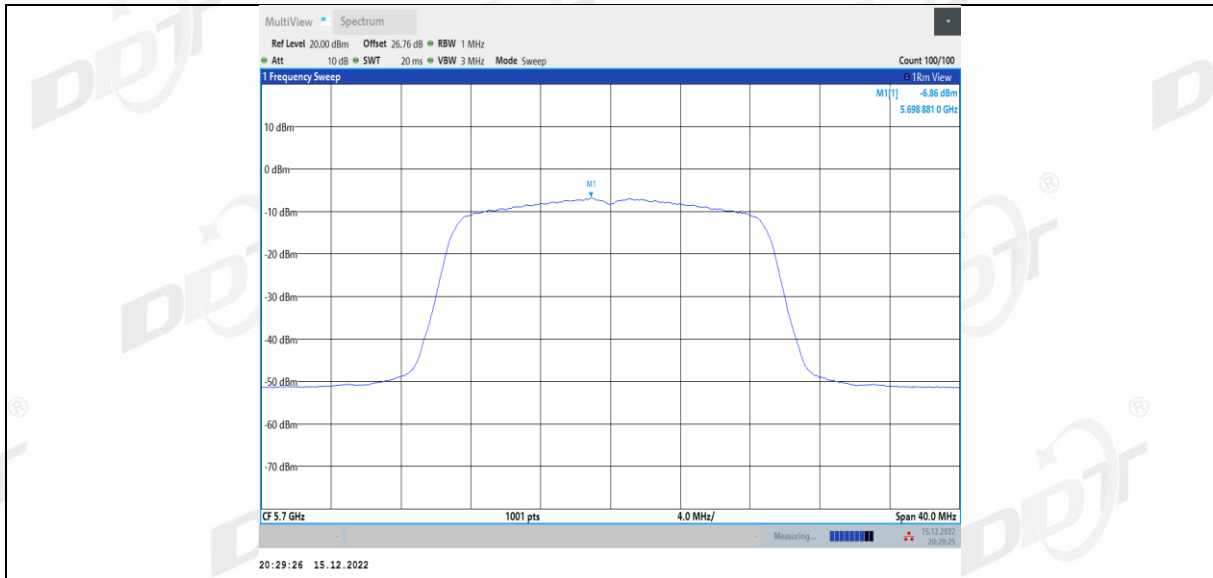
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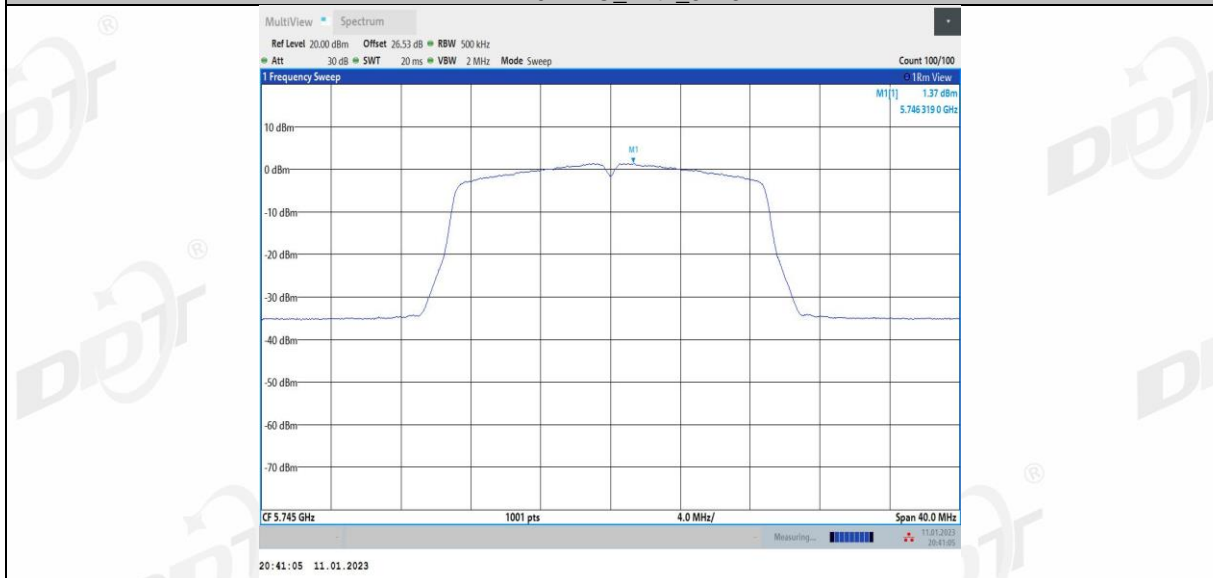
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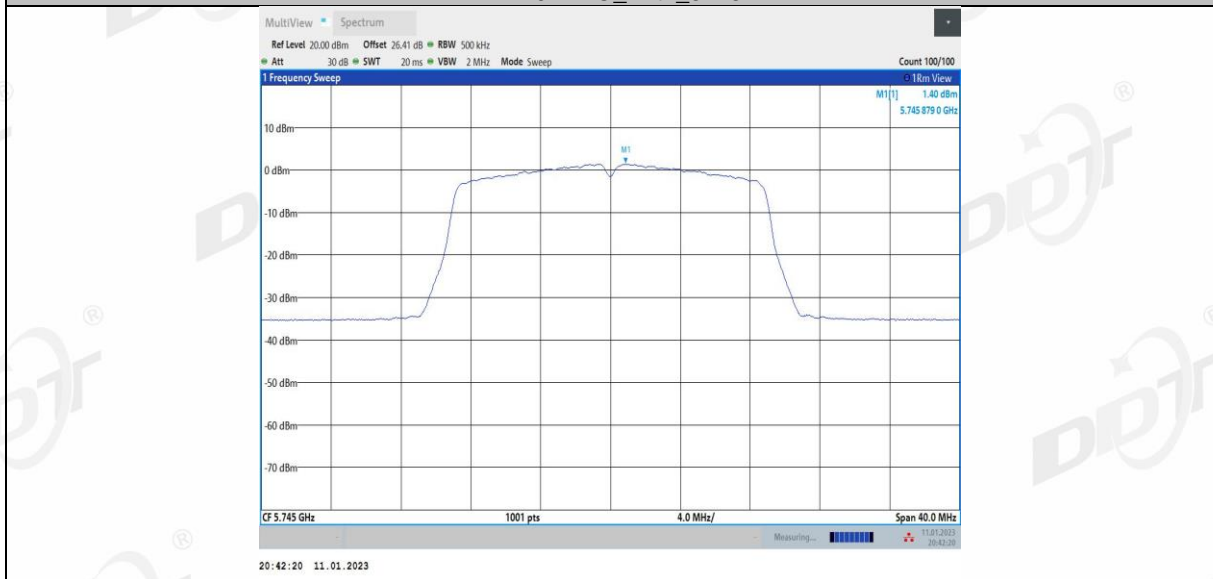
11N20MIMO Ant2 5700



11N20MIMO\_Ant1\_5745

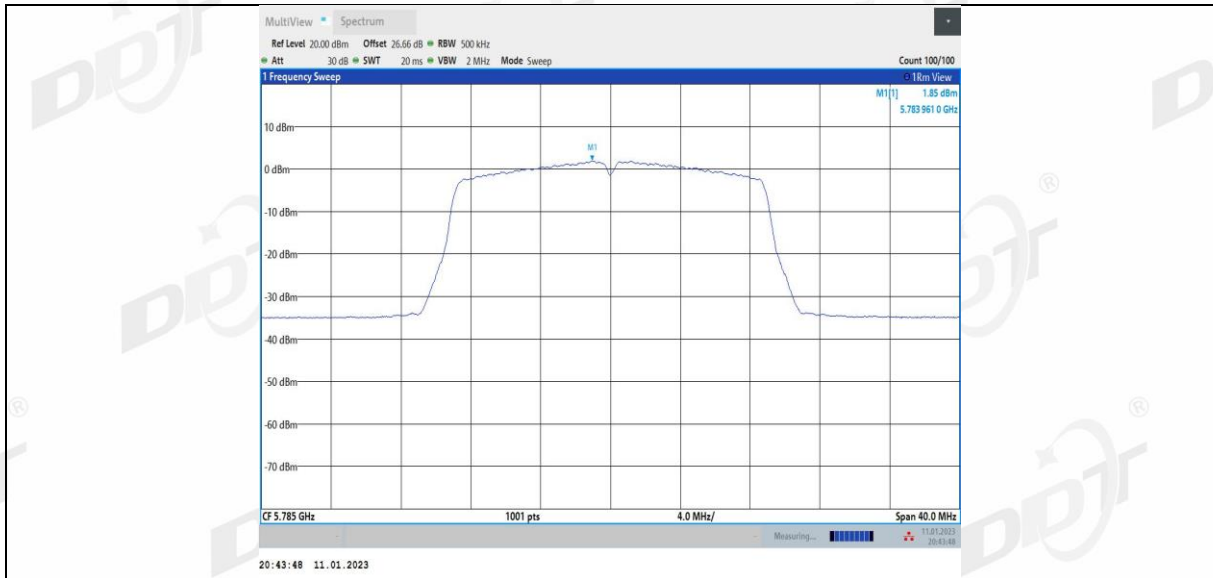


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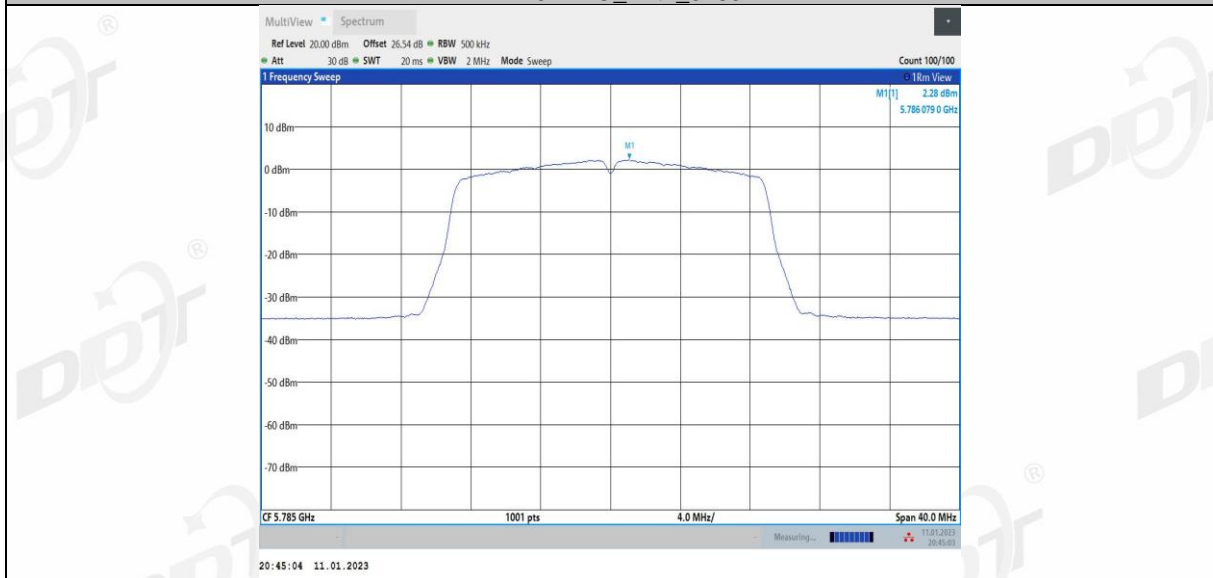


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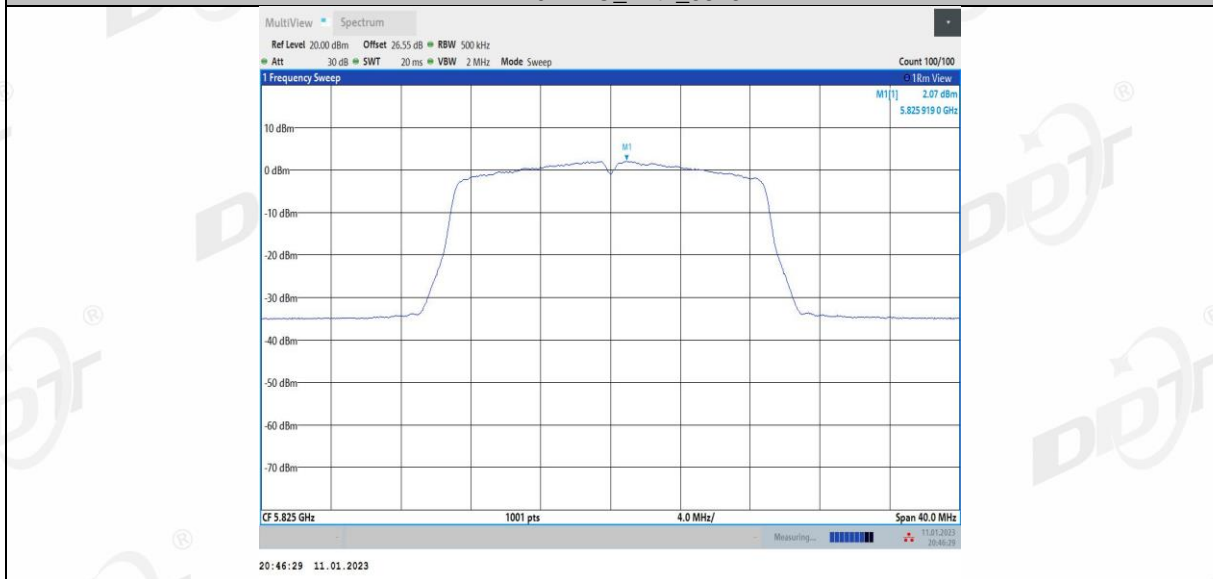




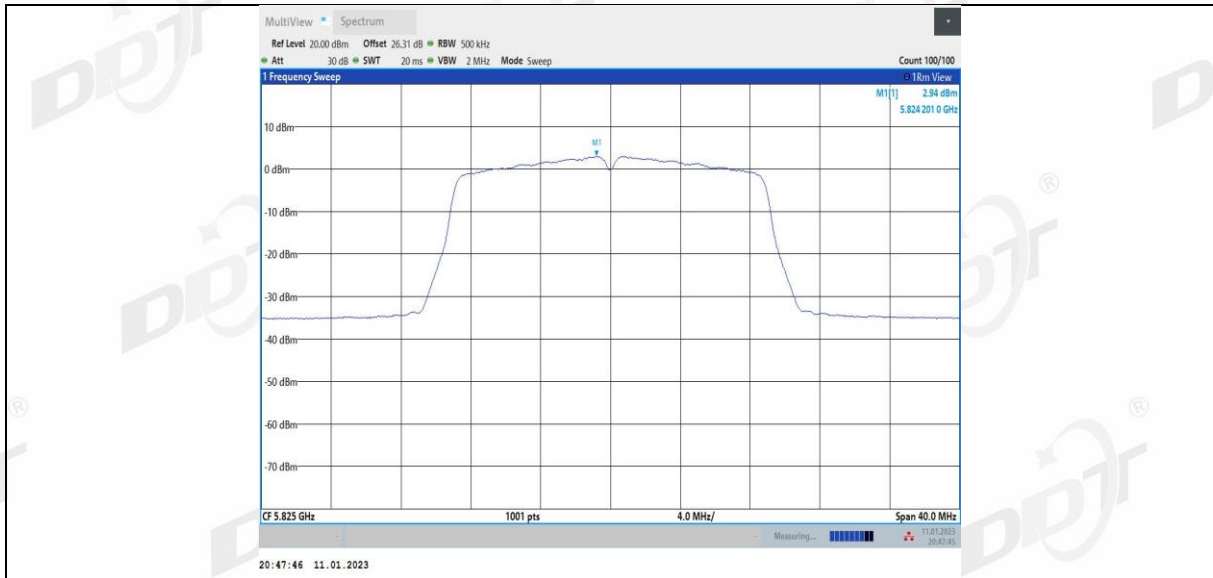
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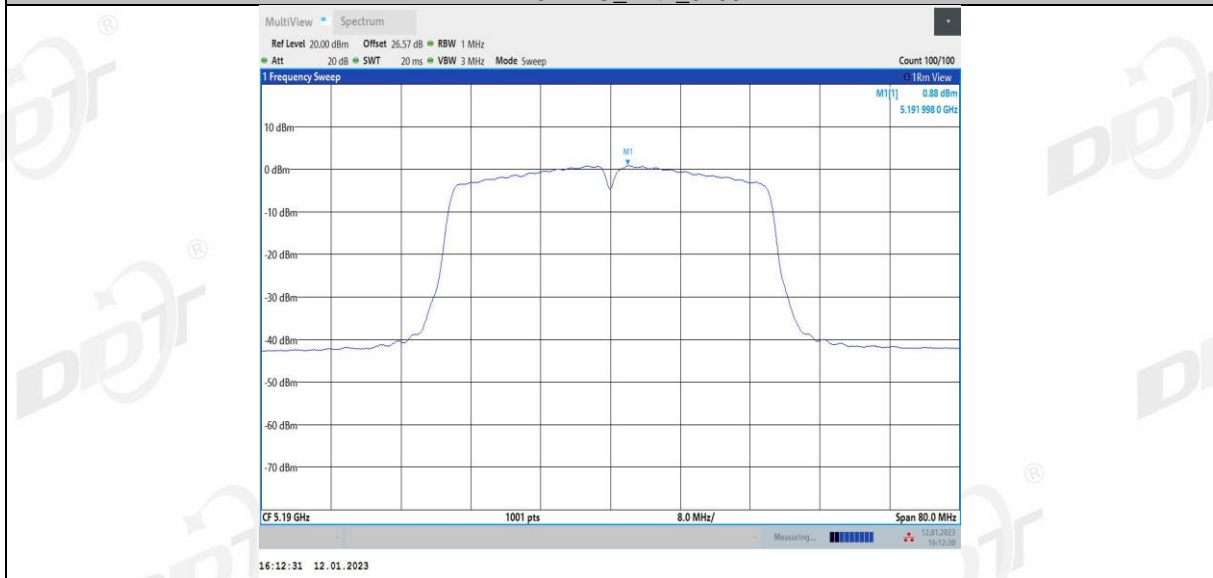
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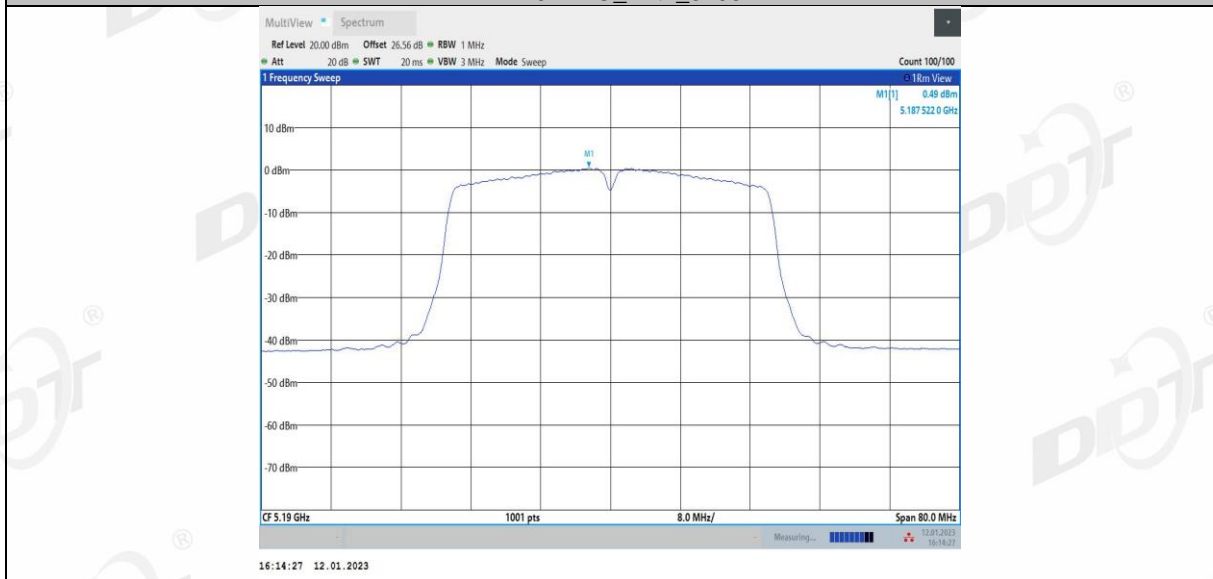
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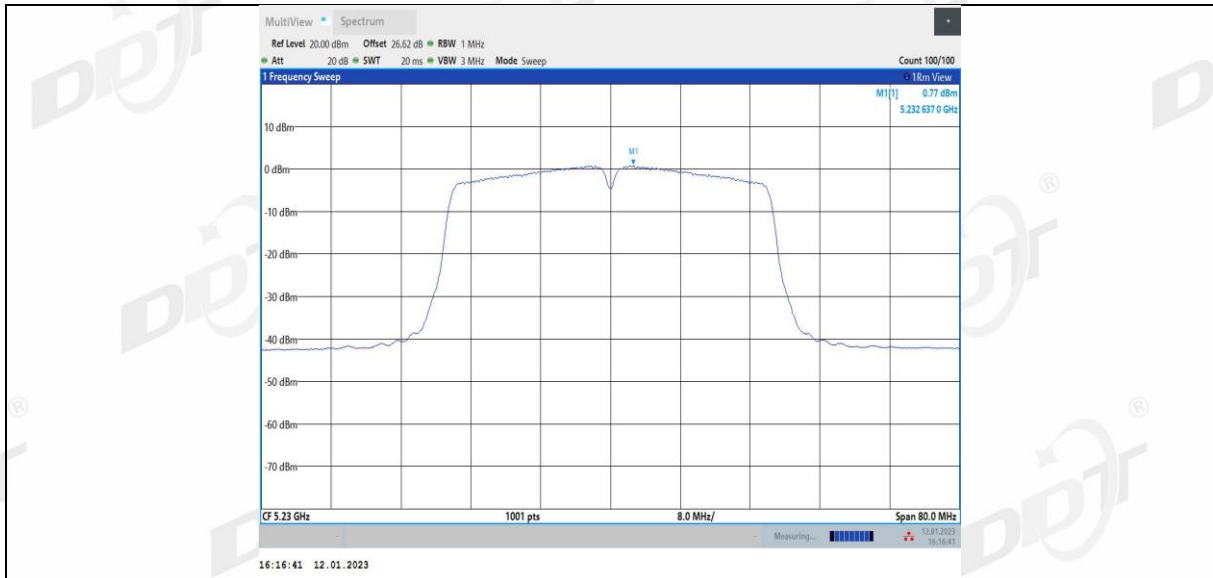
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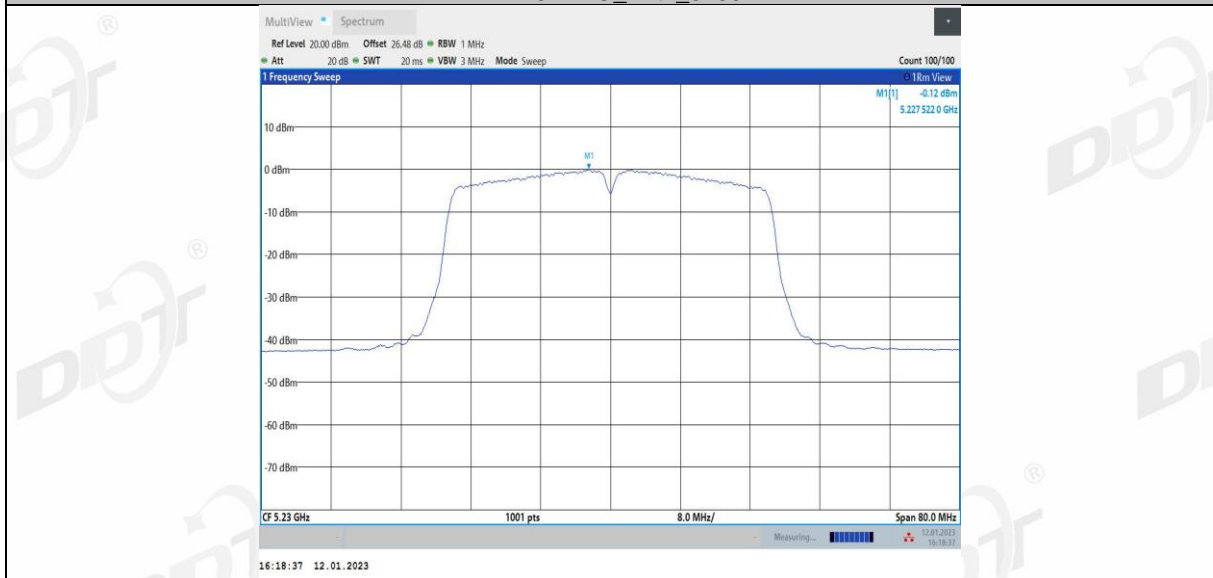
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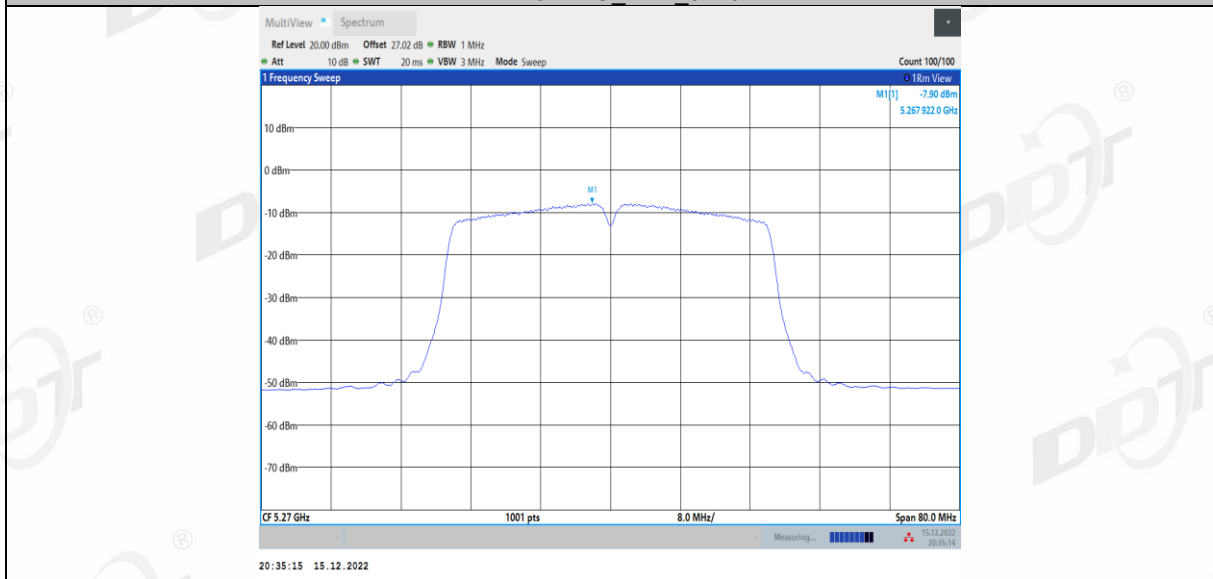
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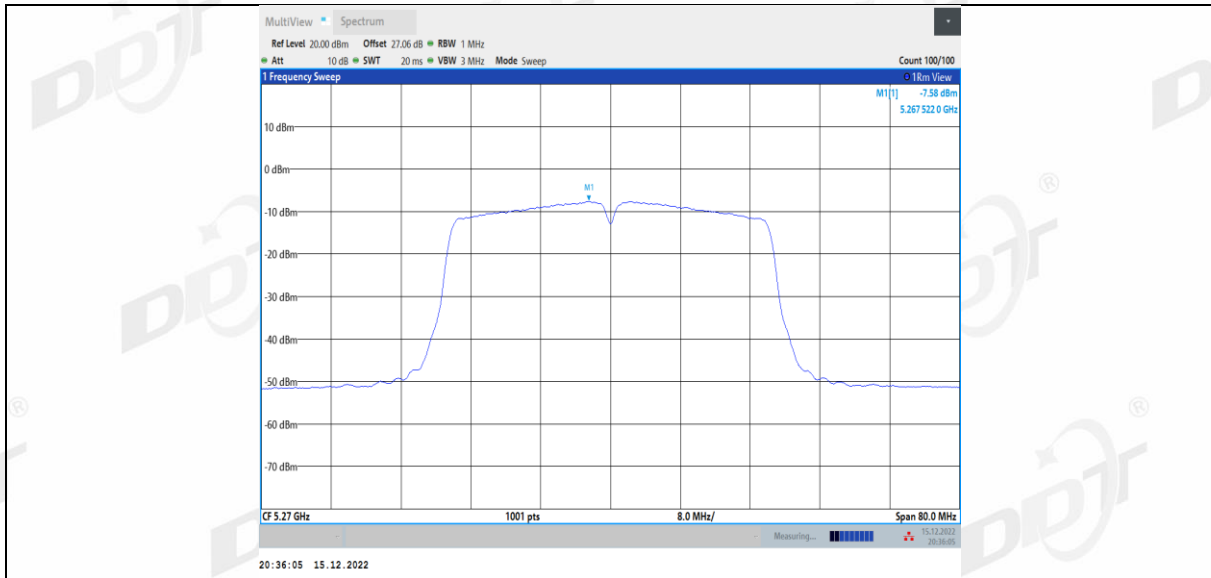
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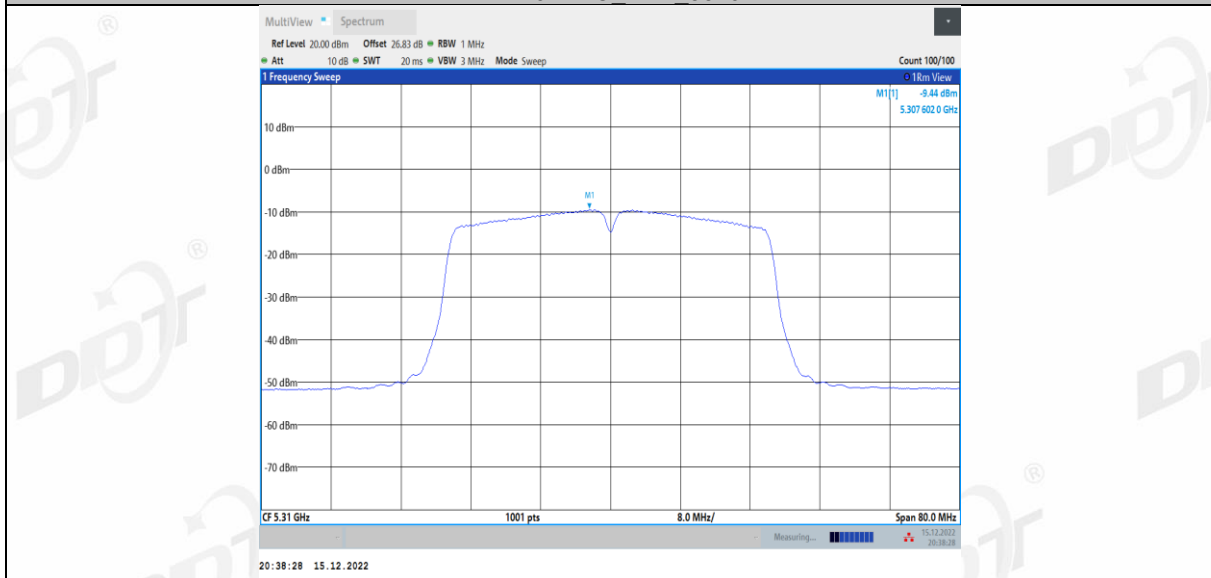
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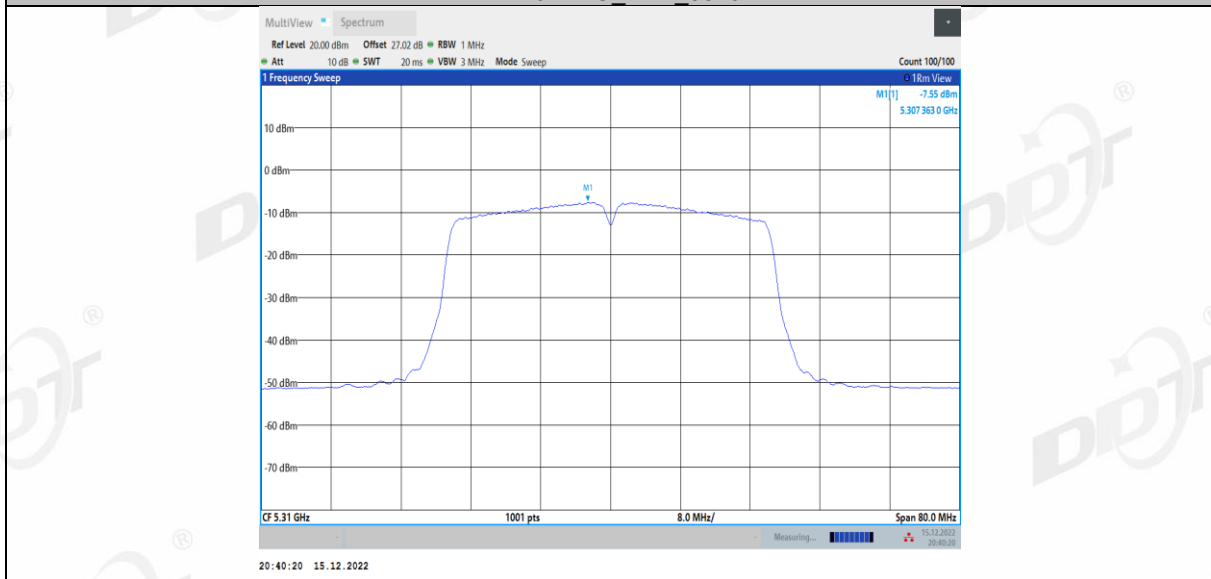
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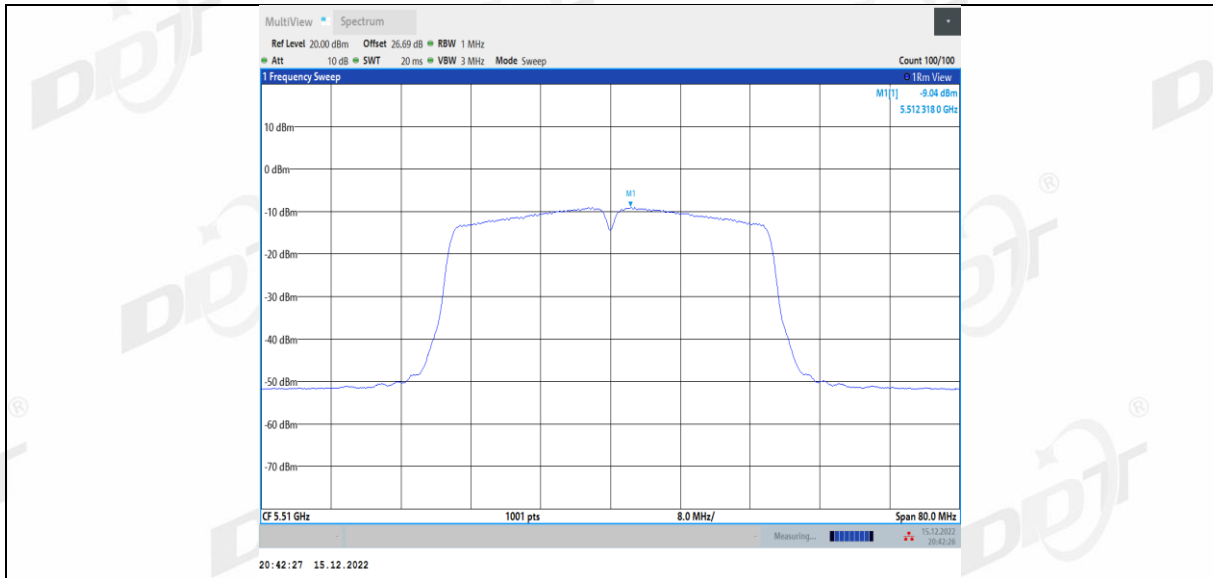
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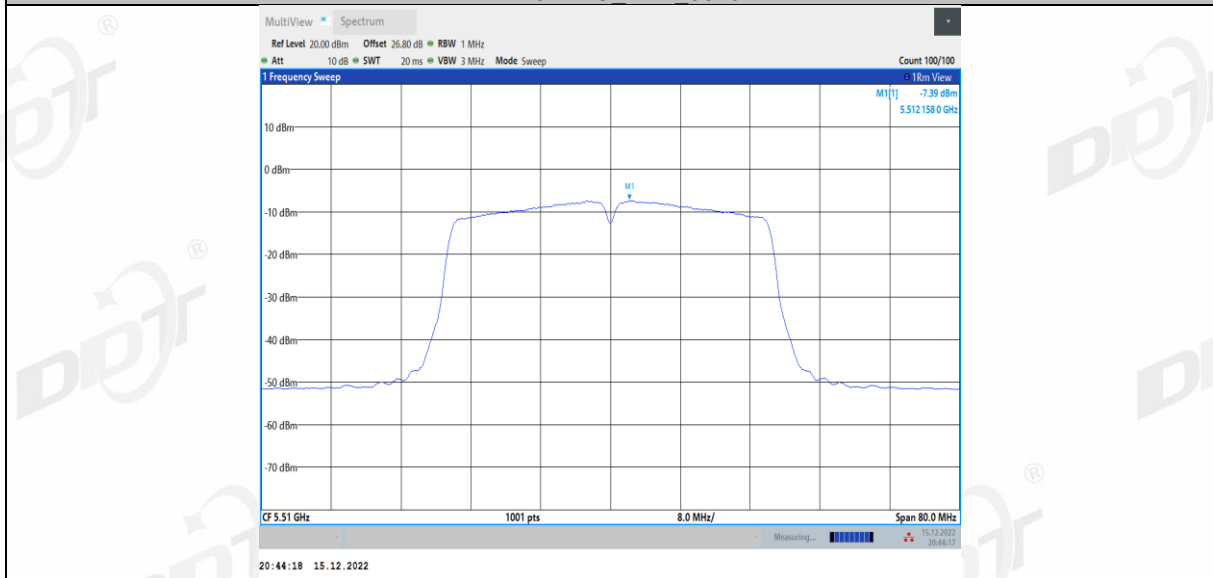
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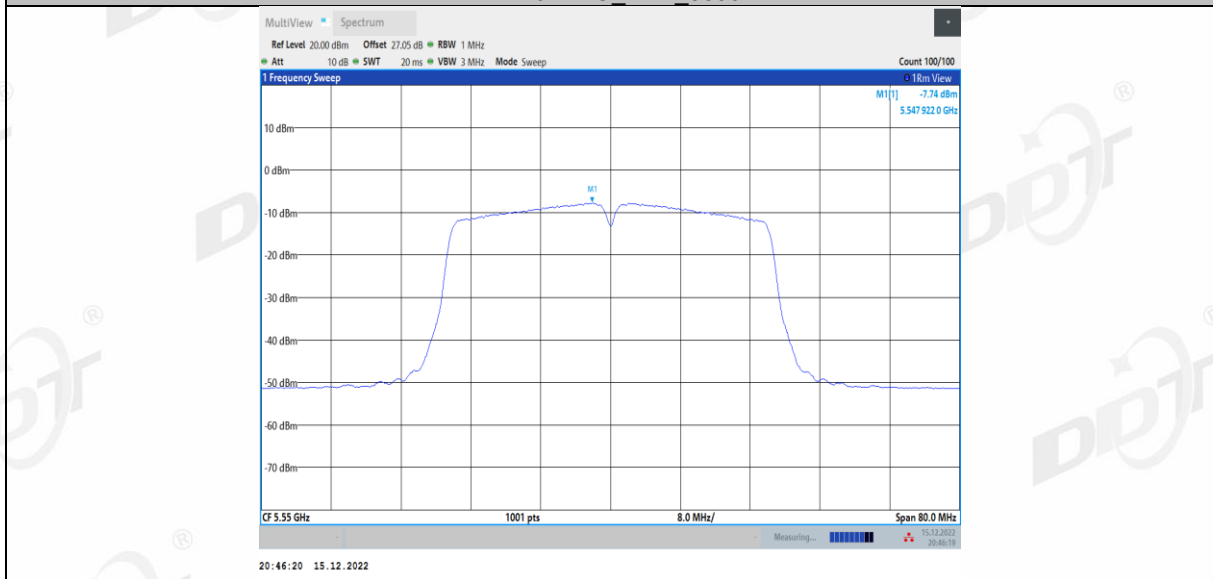
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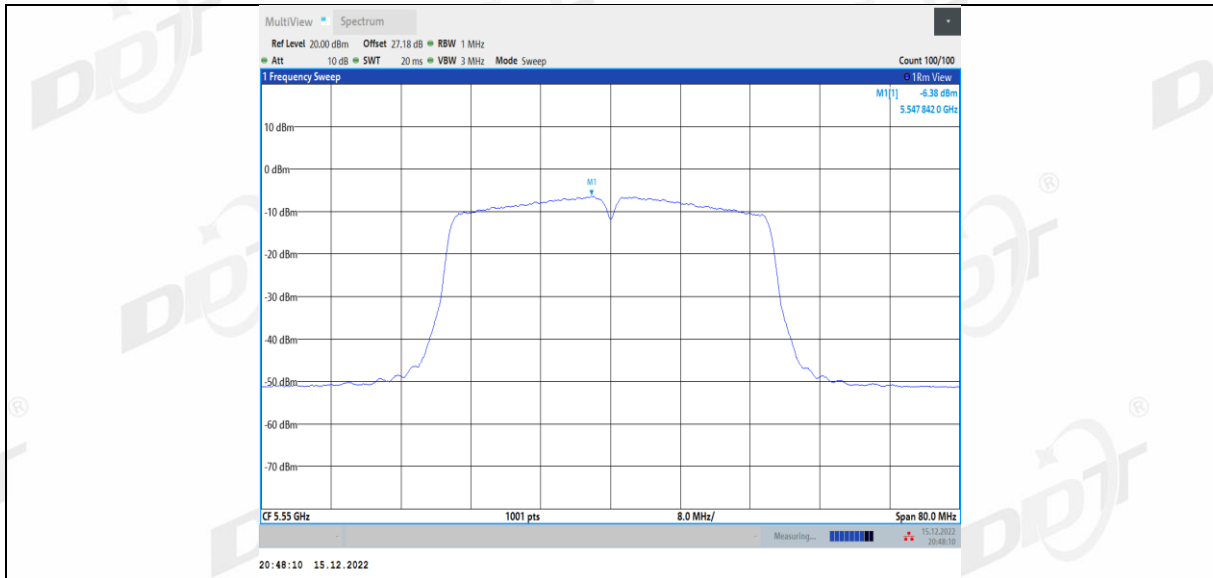
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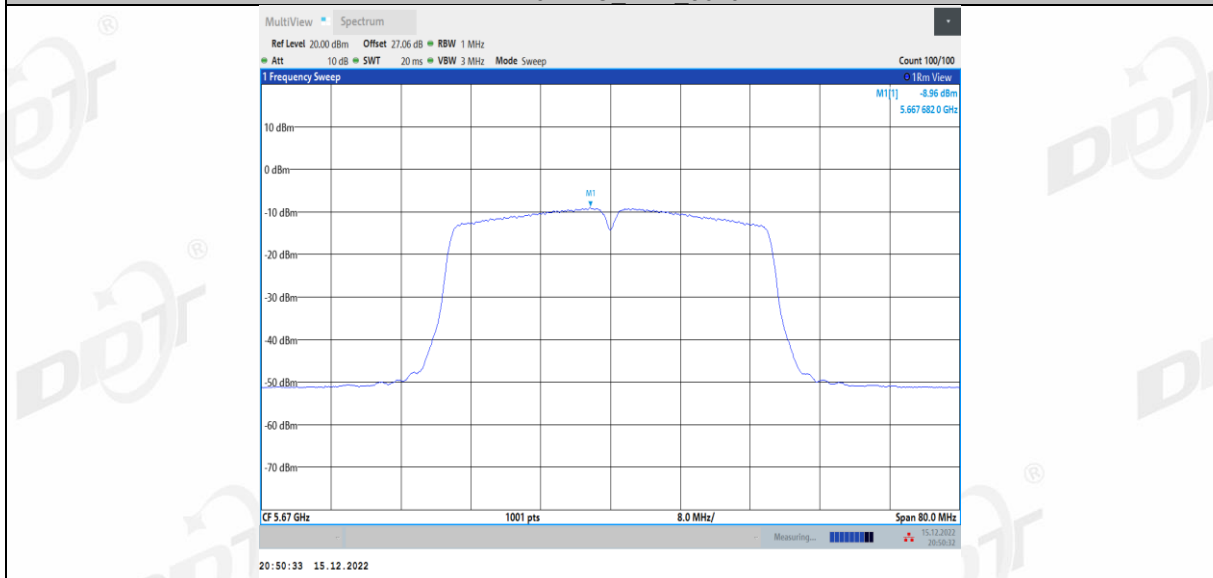
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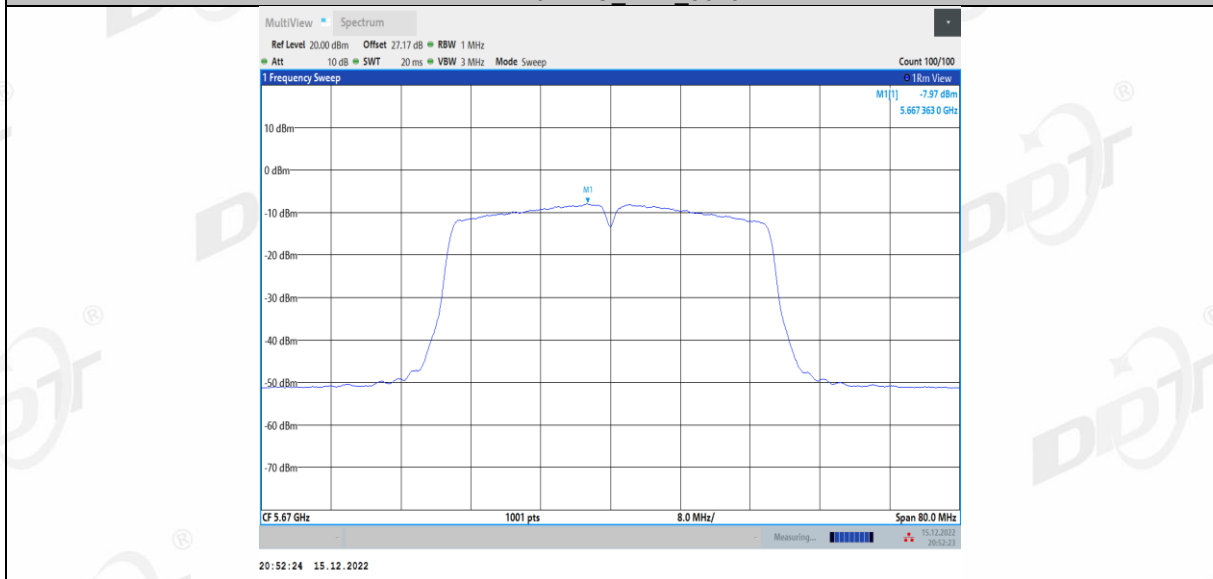
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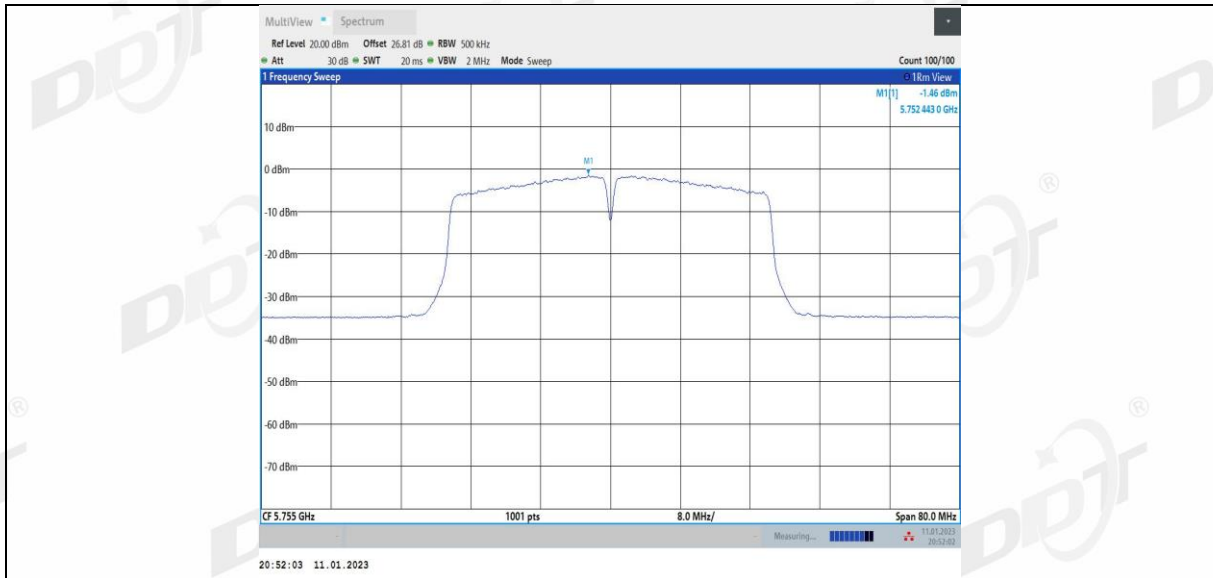
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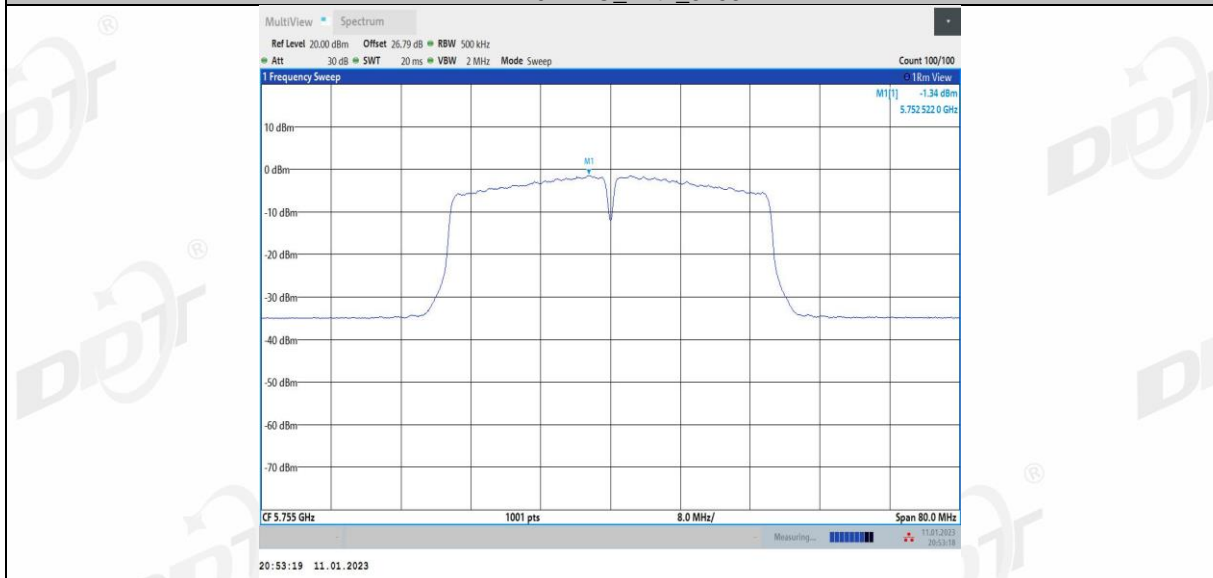
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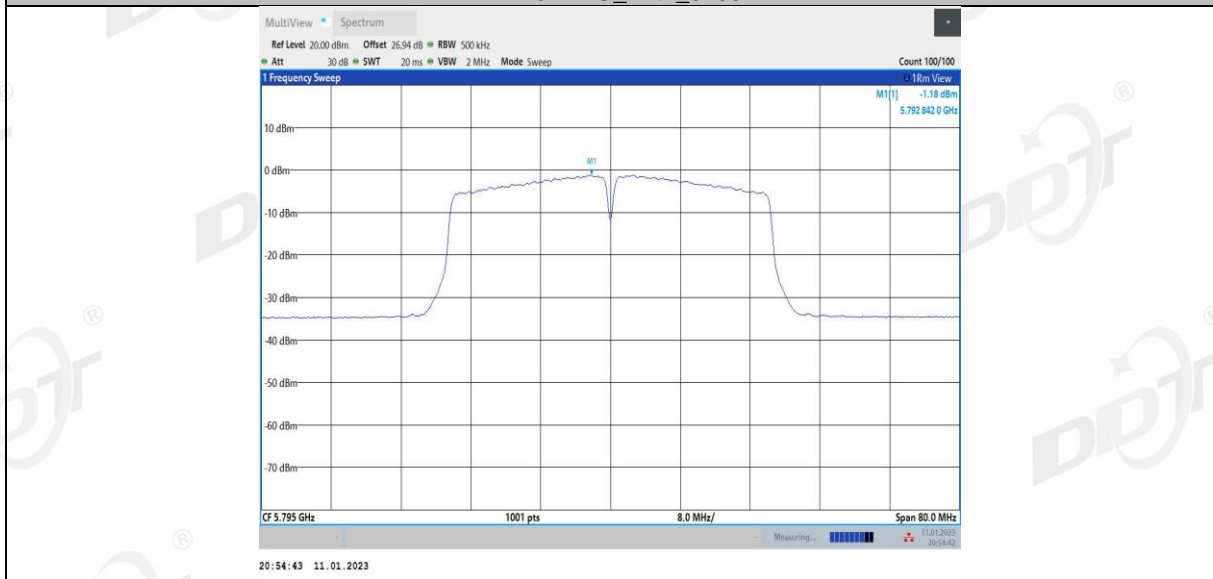
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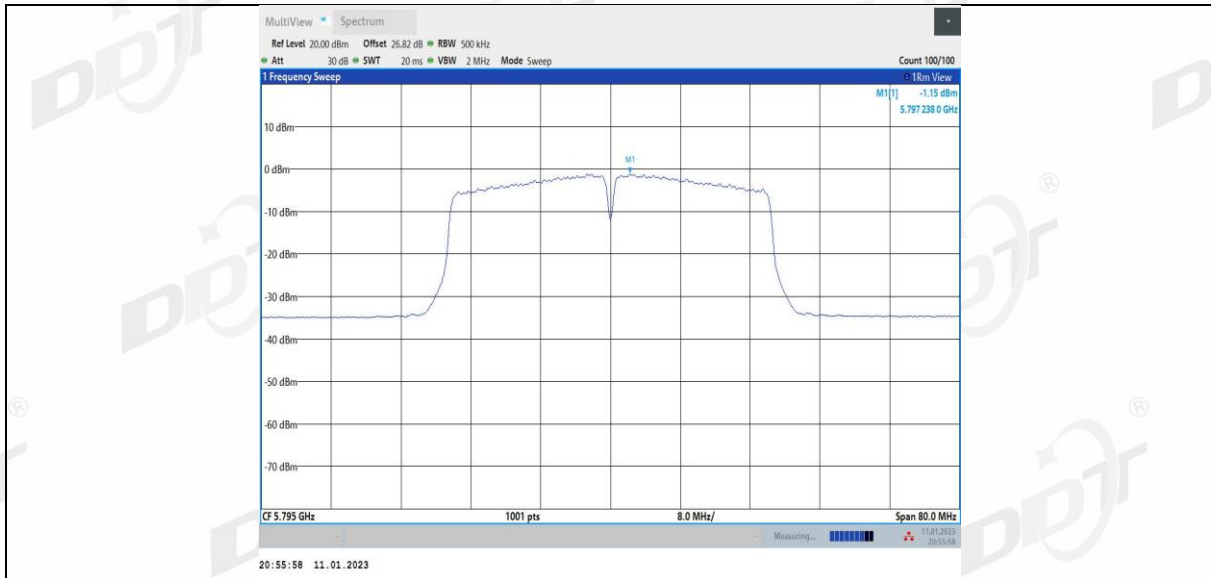
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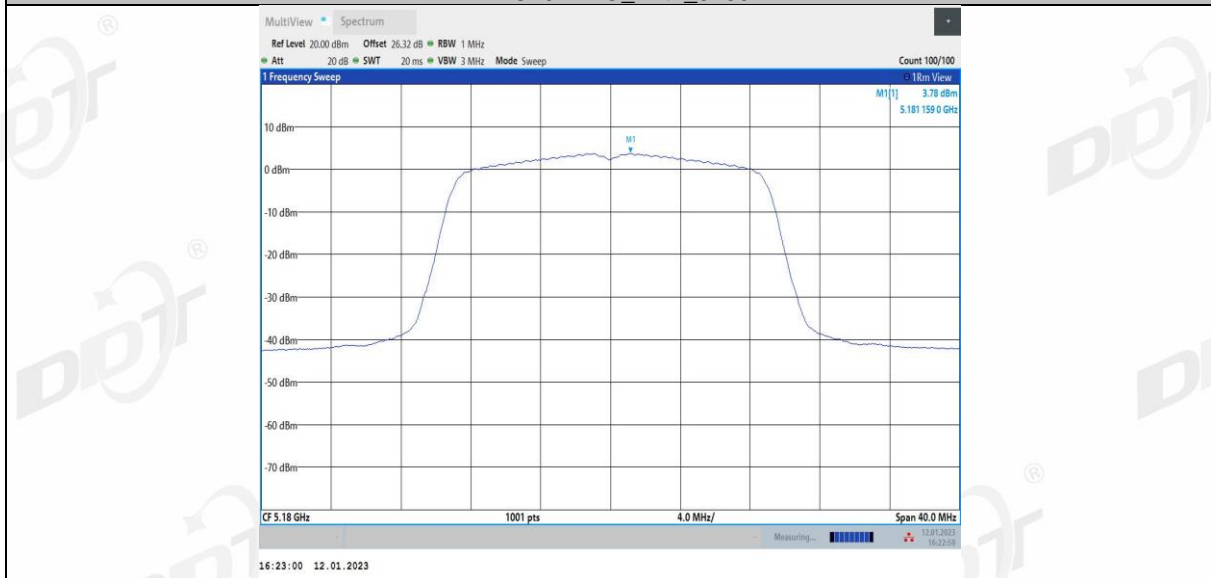
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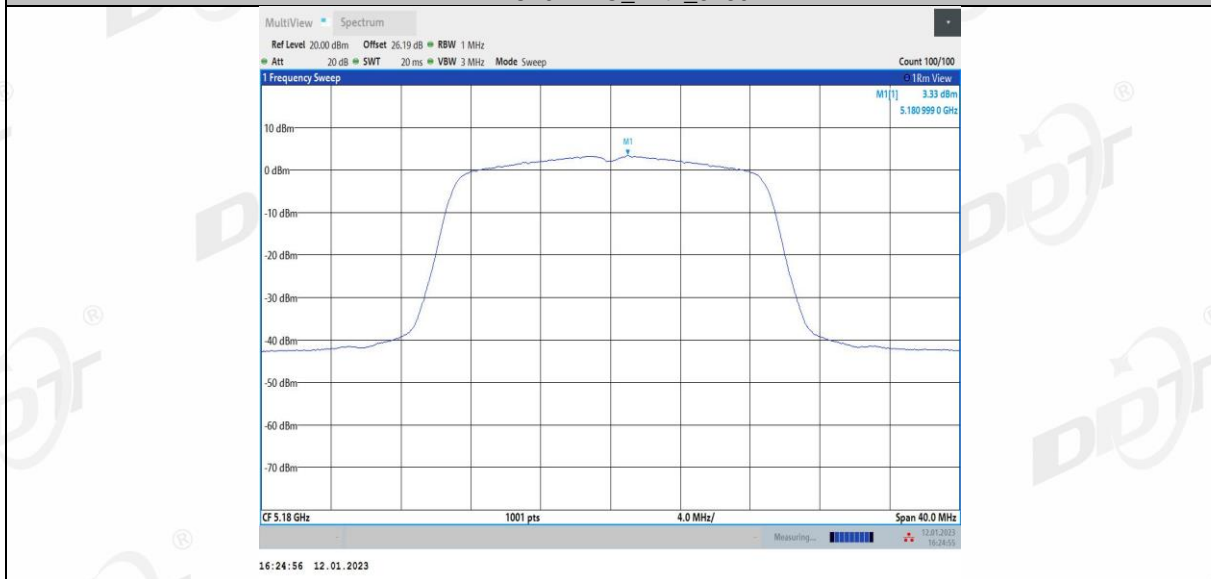
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11AC20MIMO\_Ant1\_5180

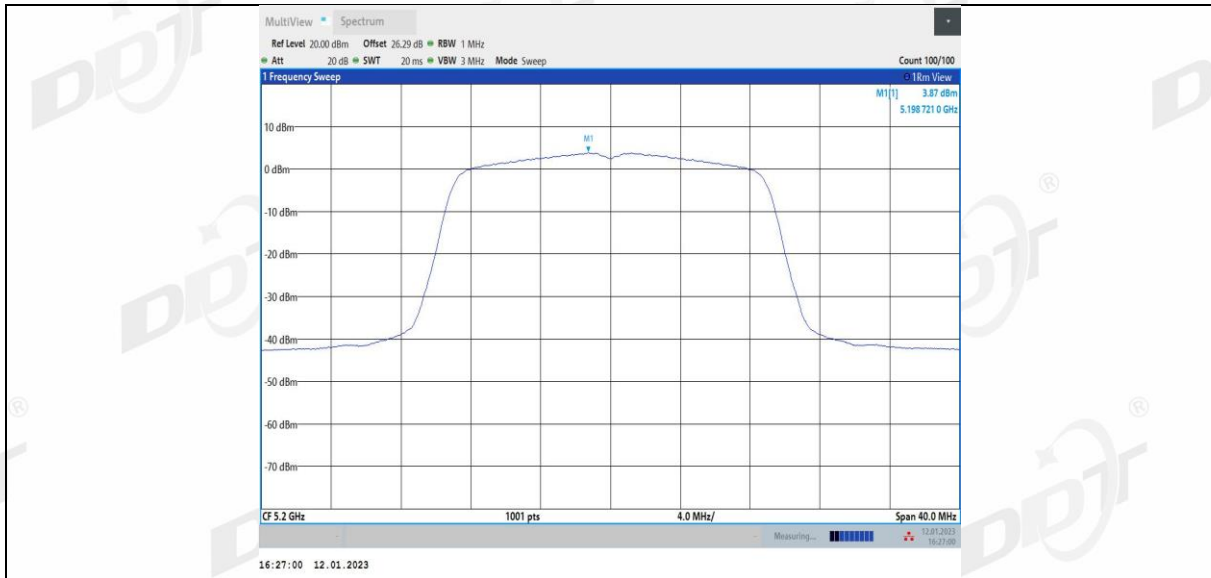


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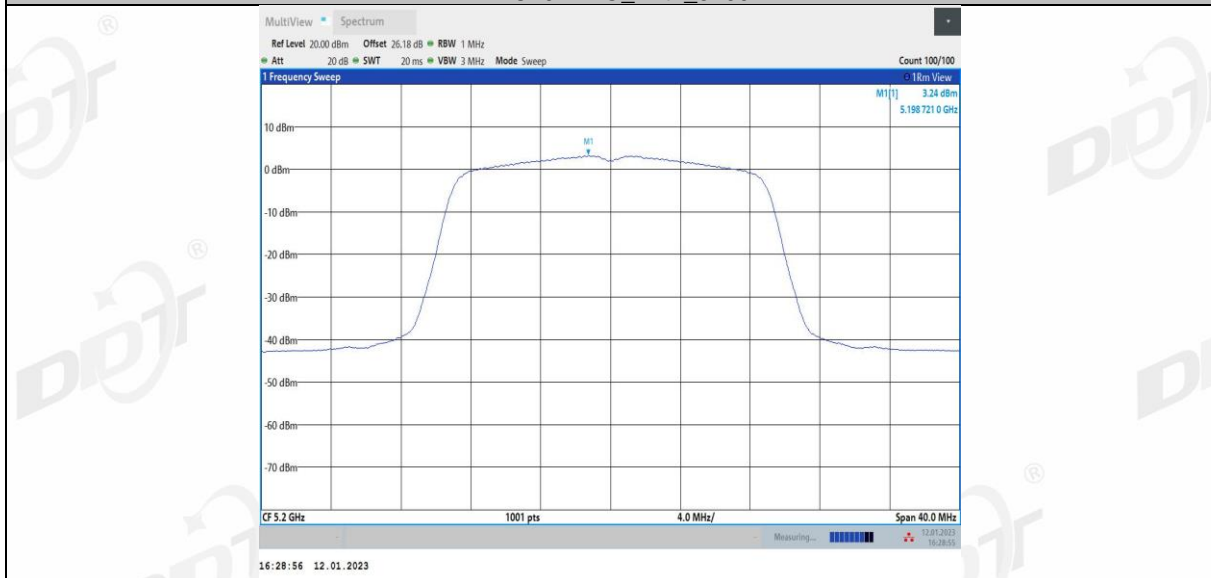


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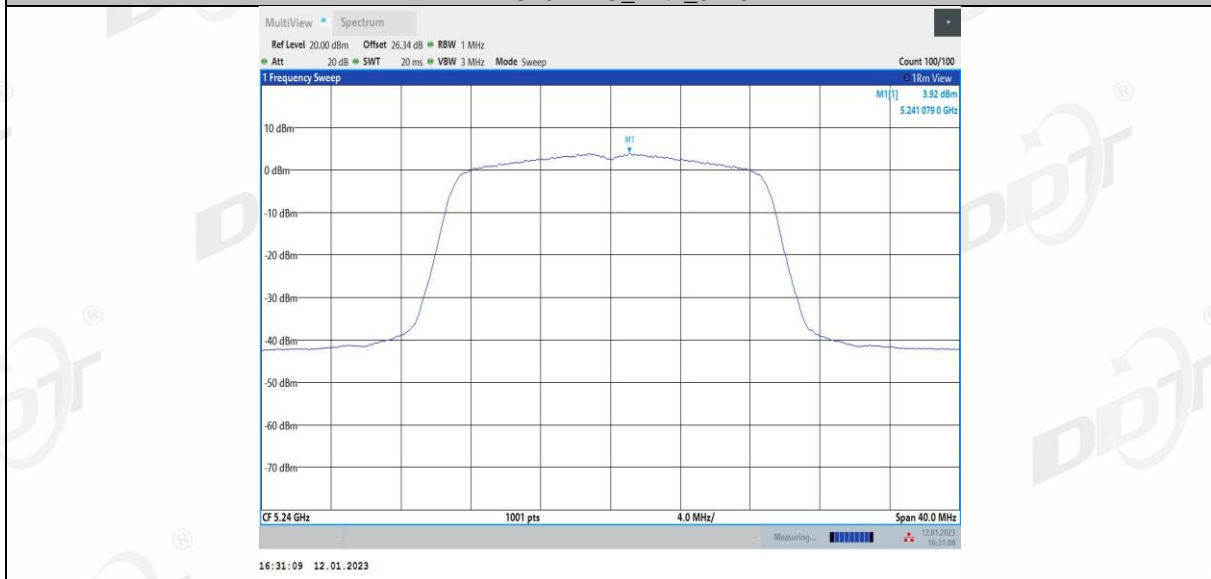




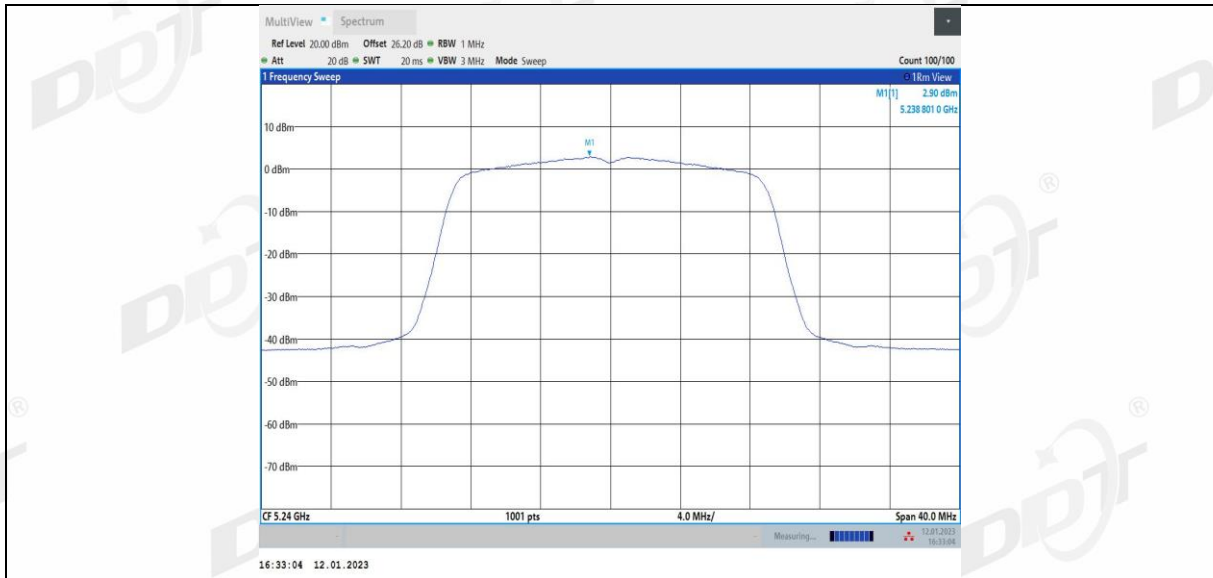
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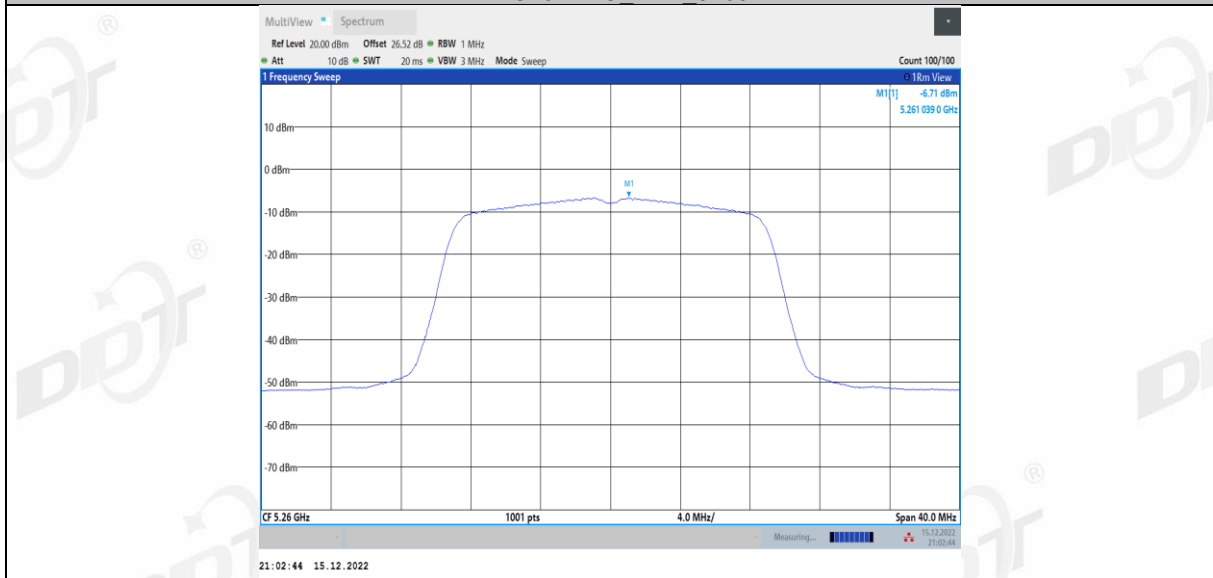
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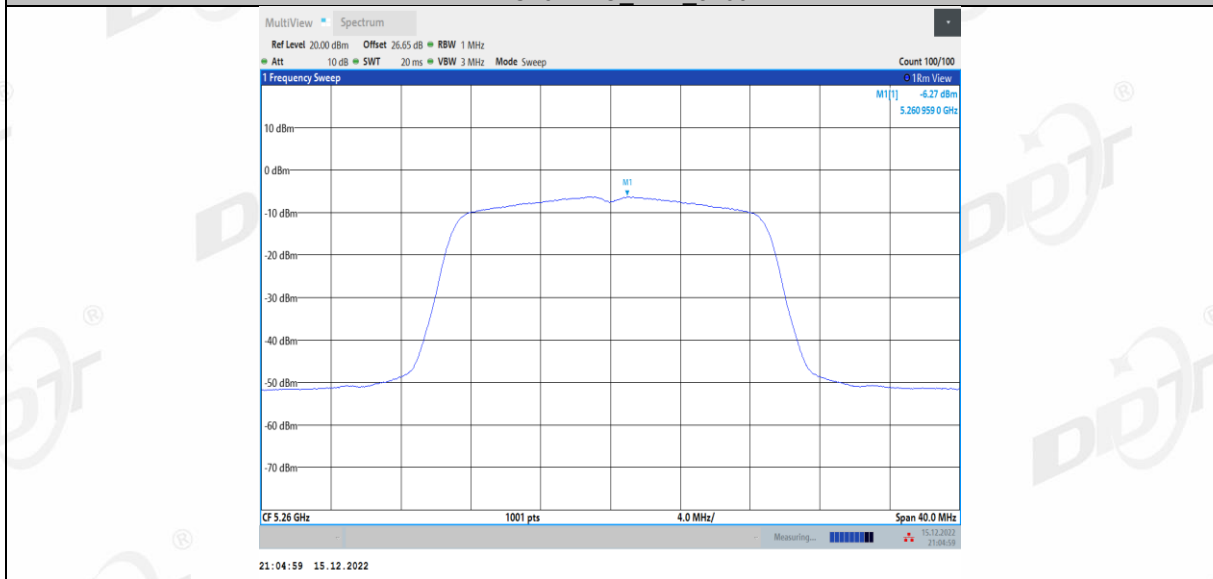
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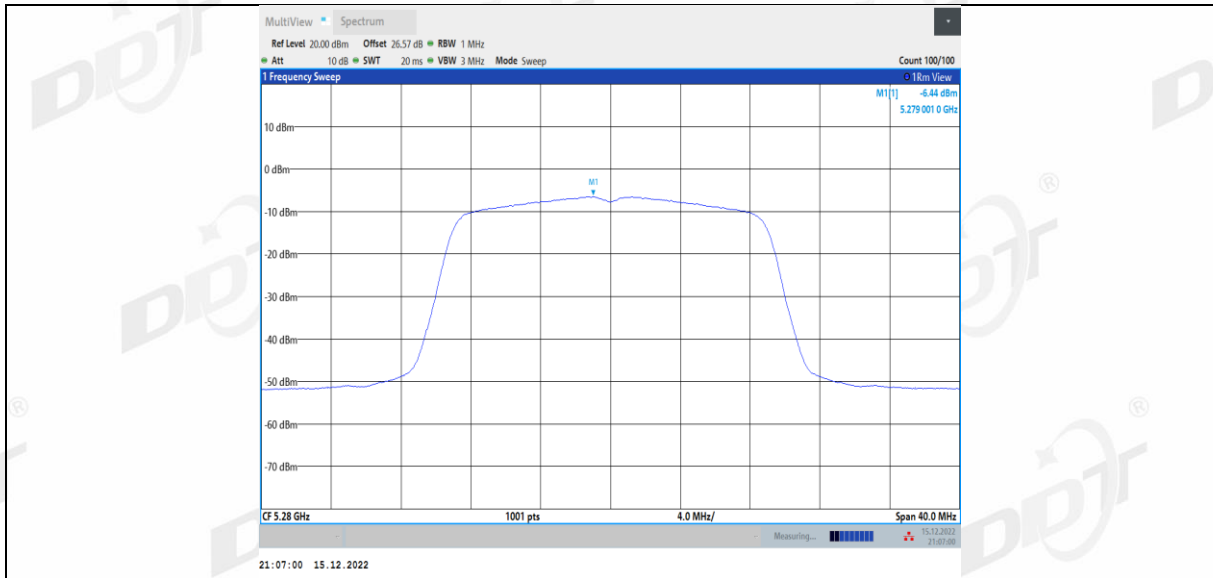
11AC20MIMO Ant1 5260



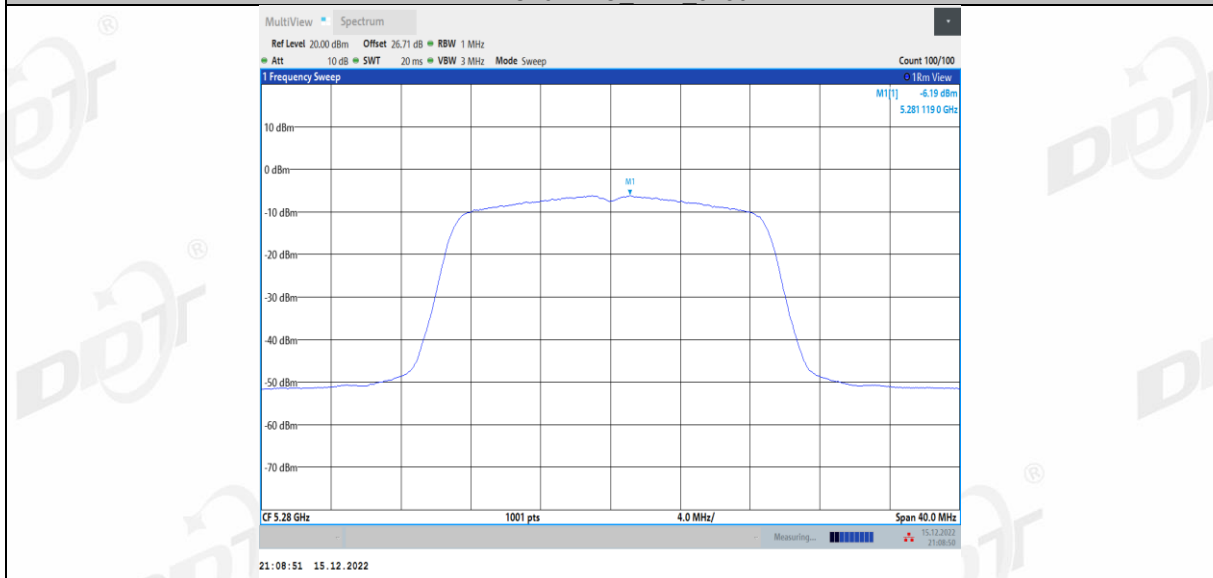
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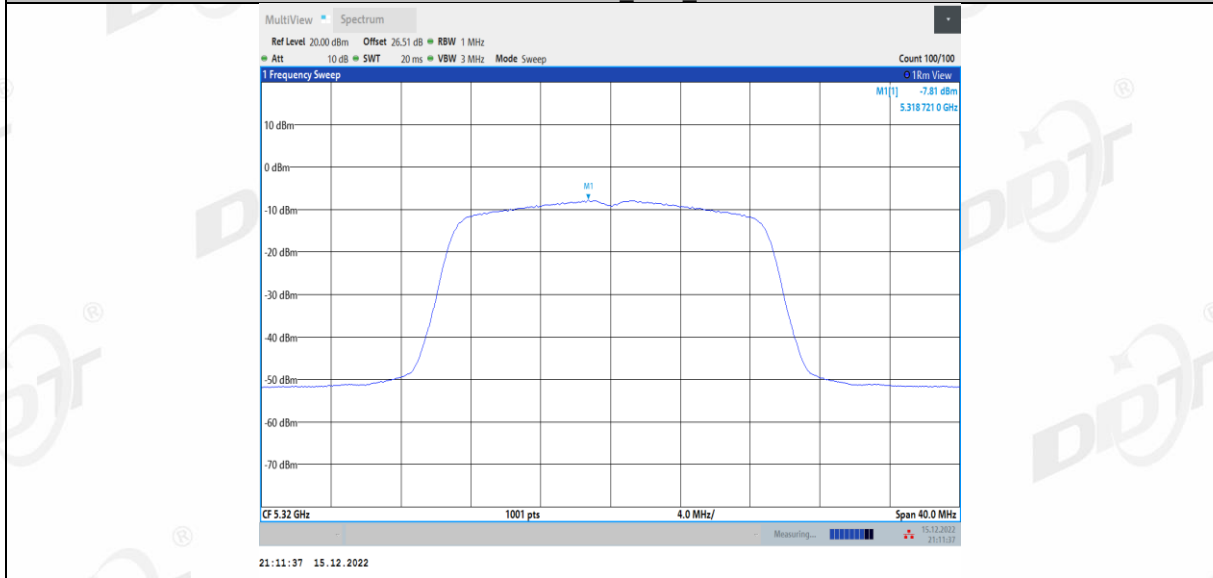
11AC20MIMO Ant1 5280



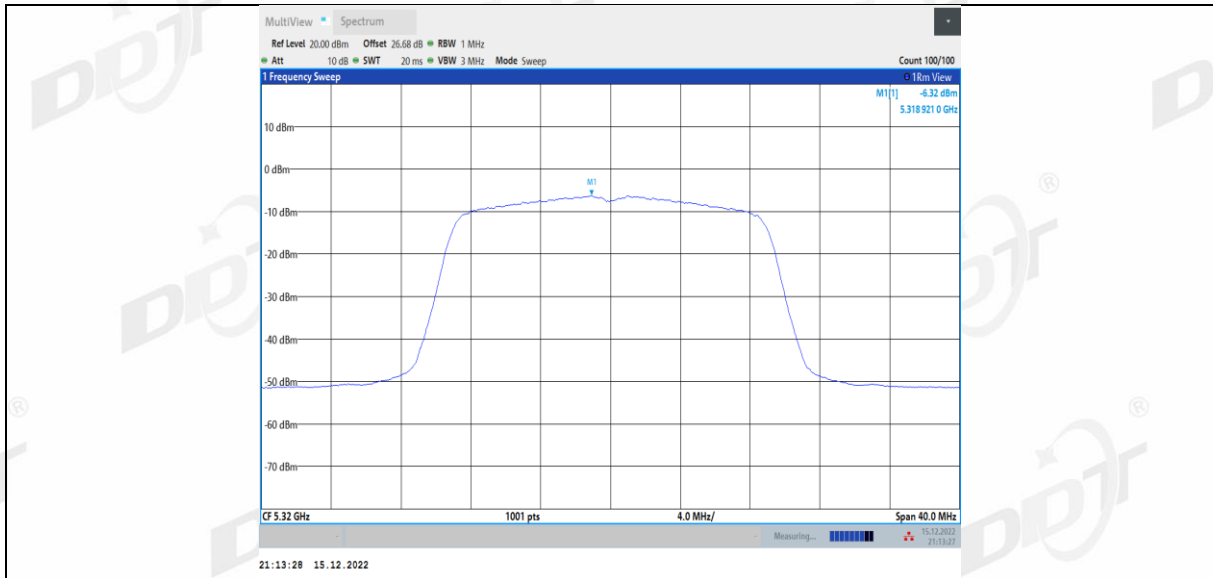
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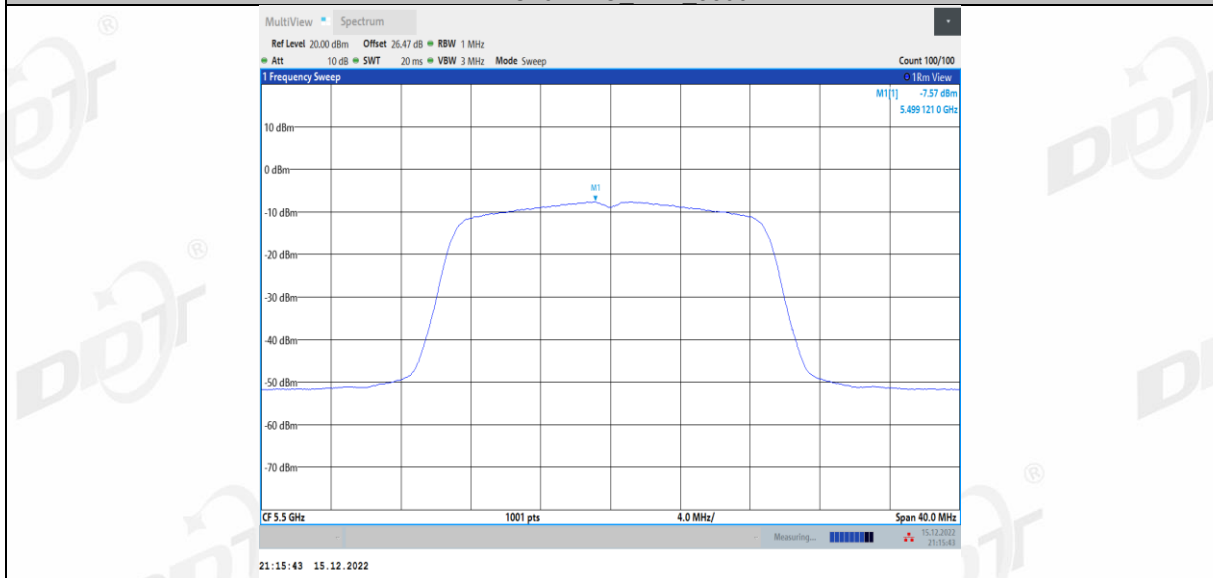
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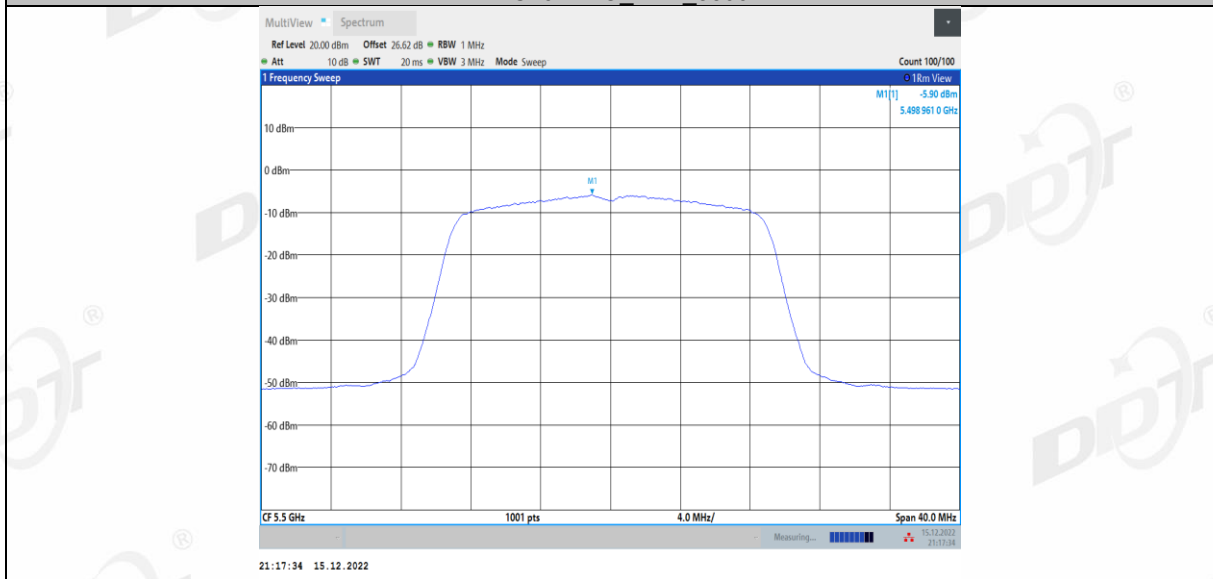
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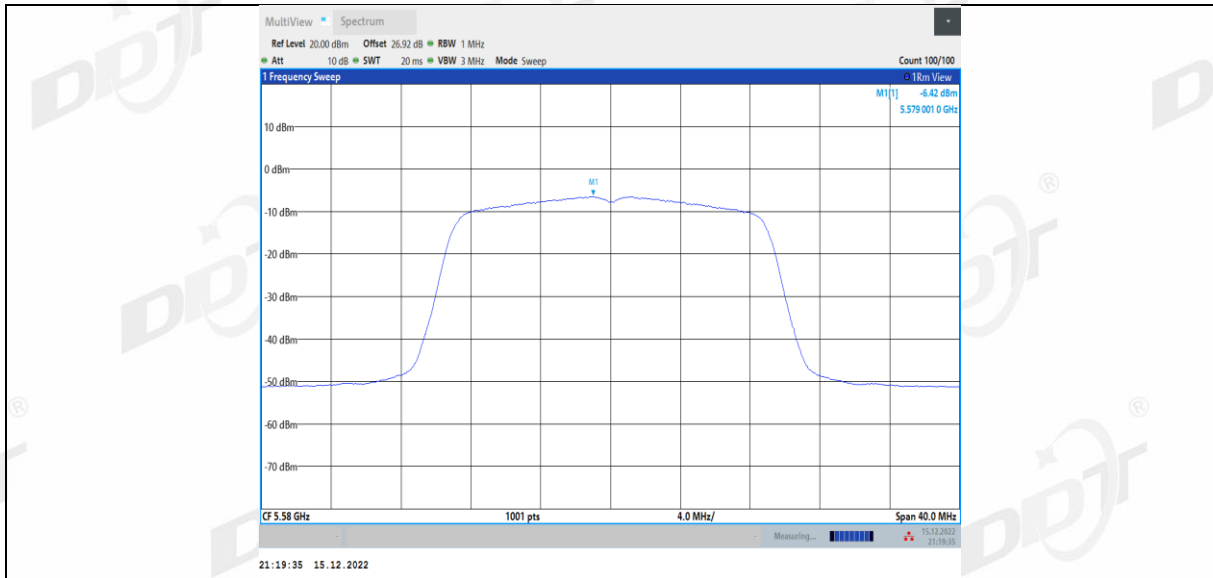
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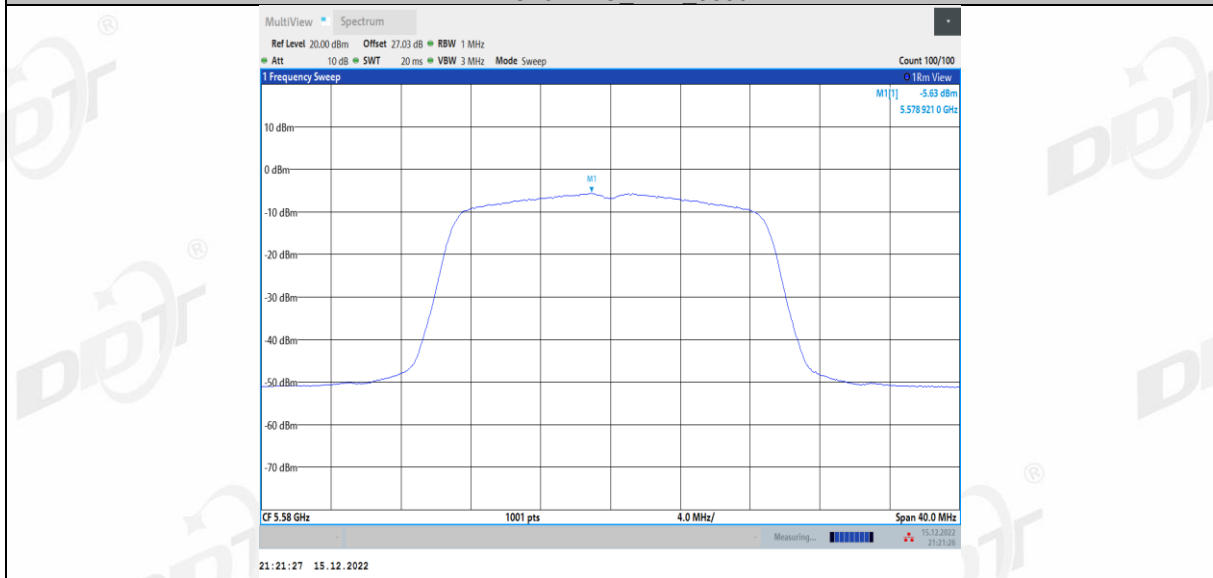
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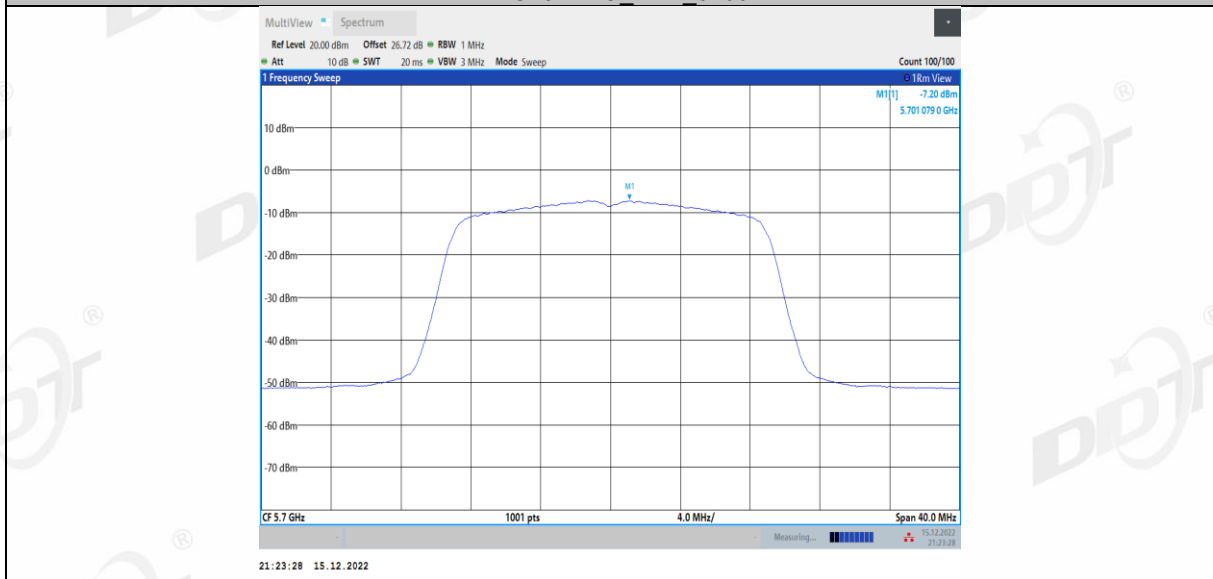
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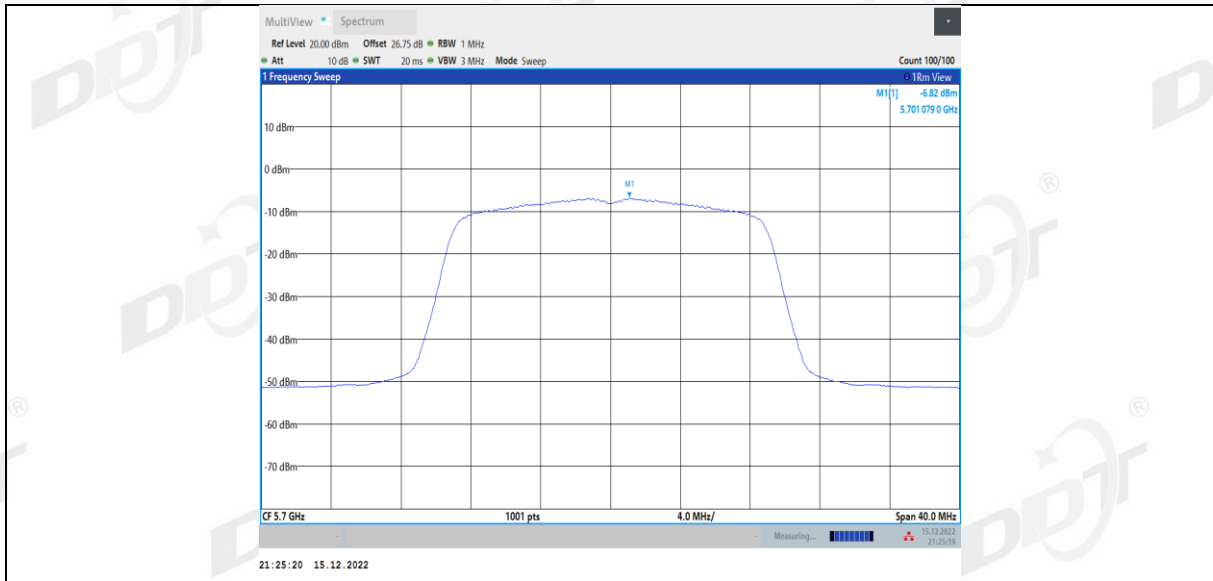
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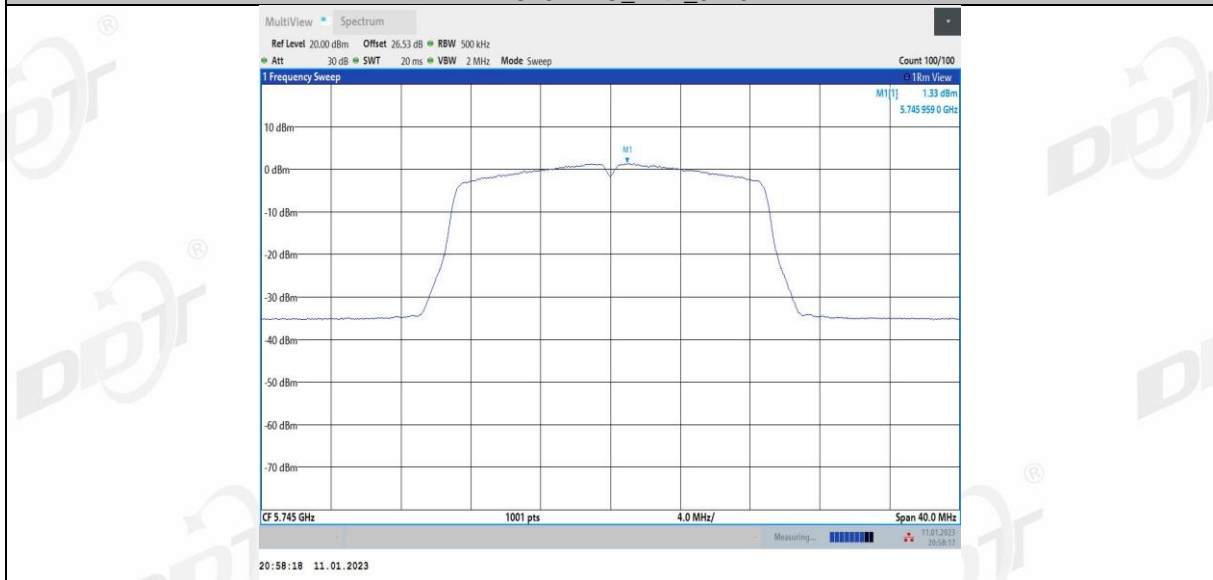
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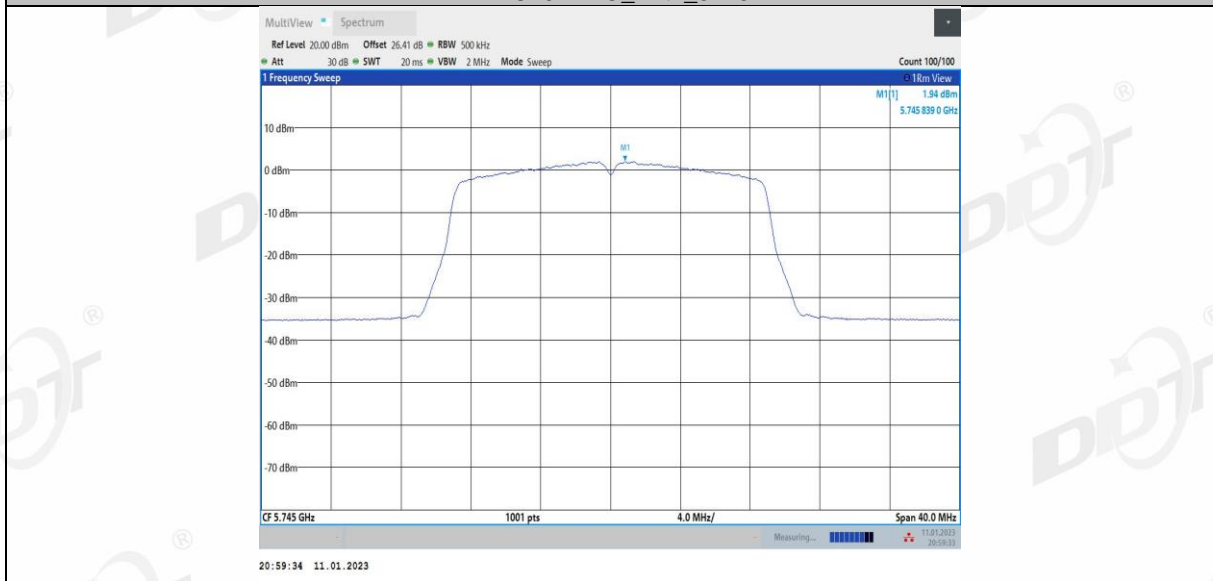
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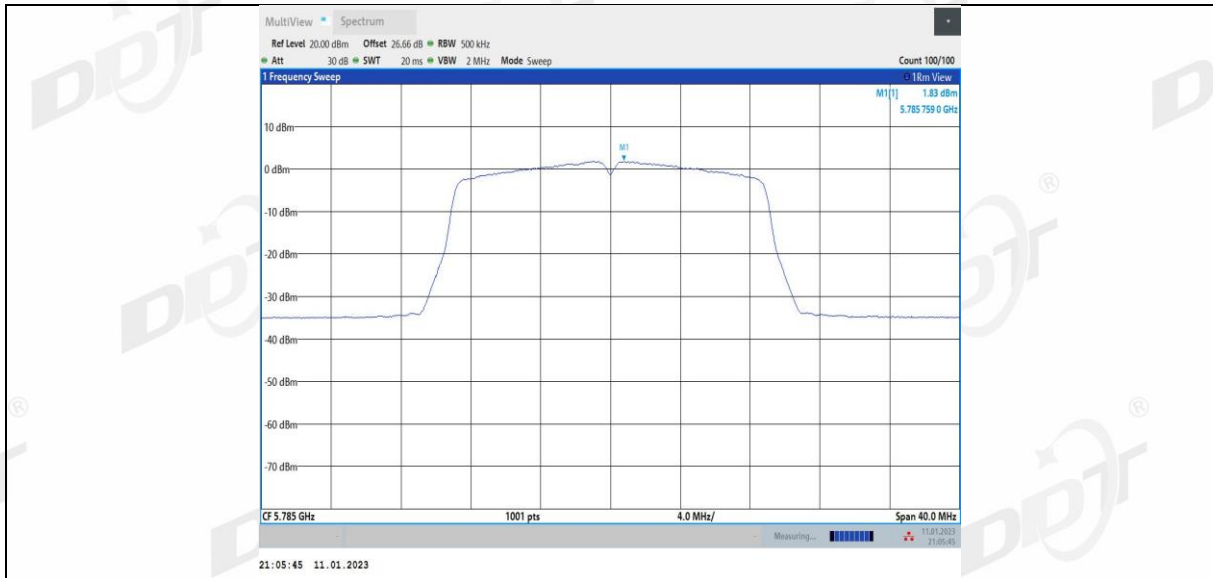
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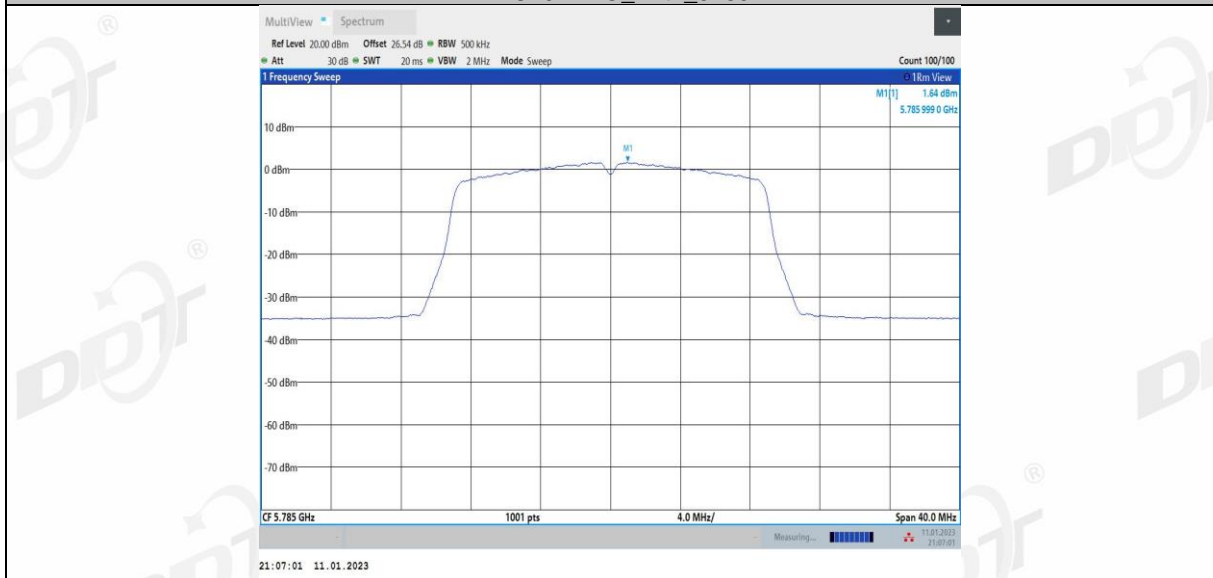
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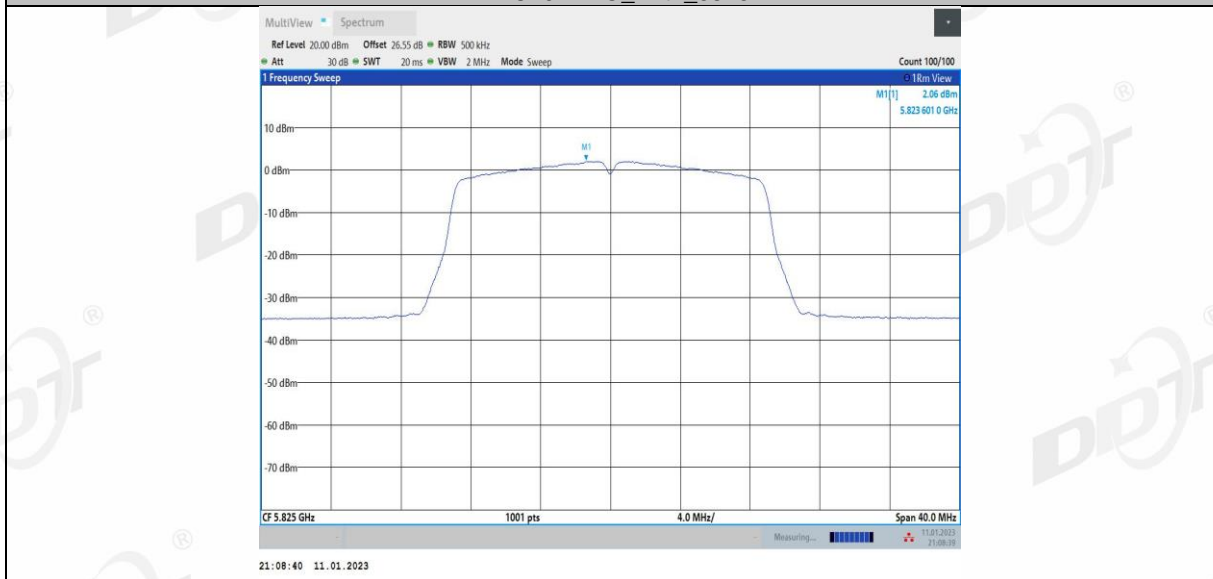
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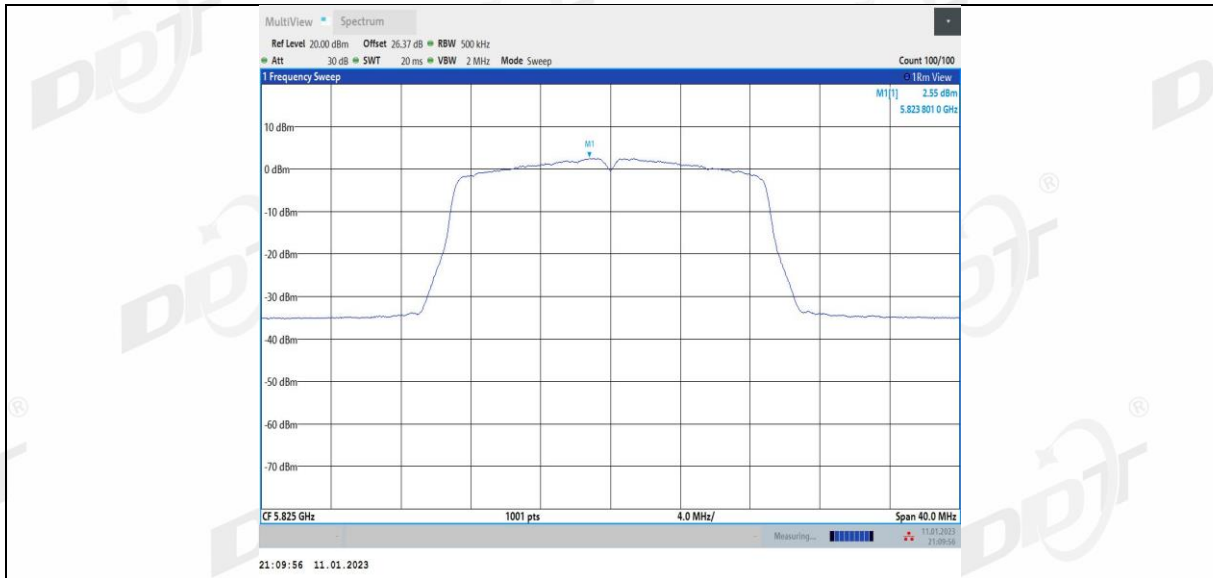
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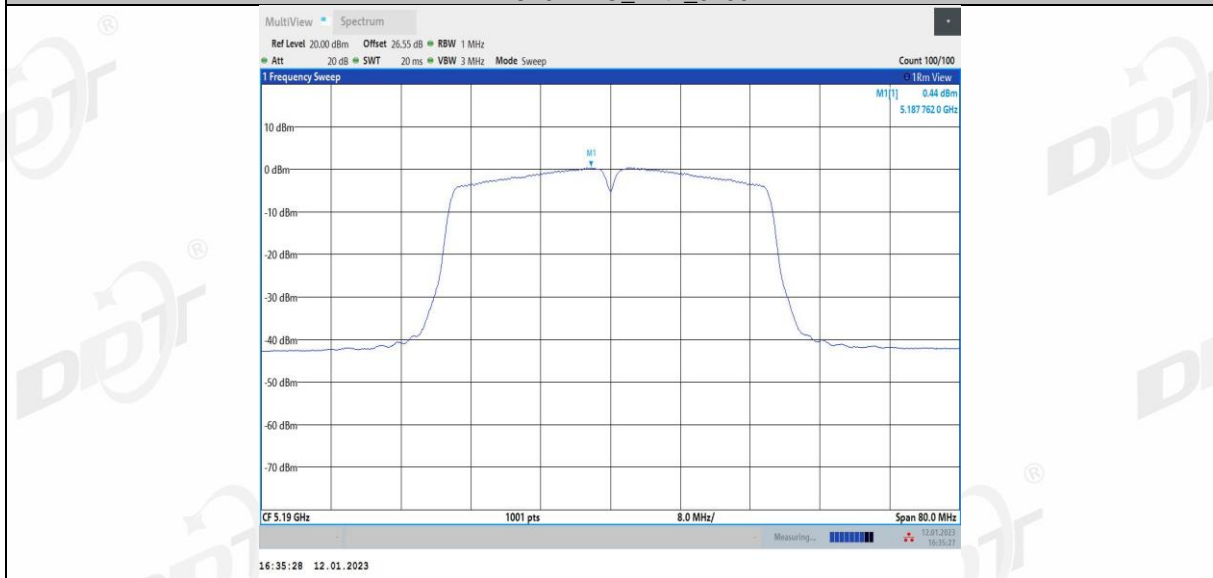
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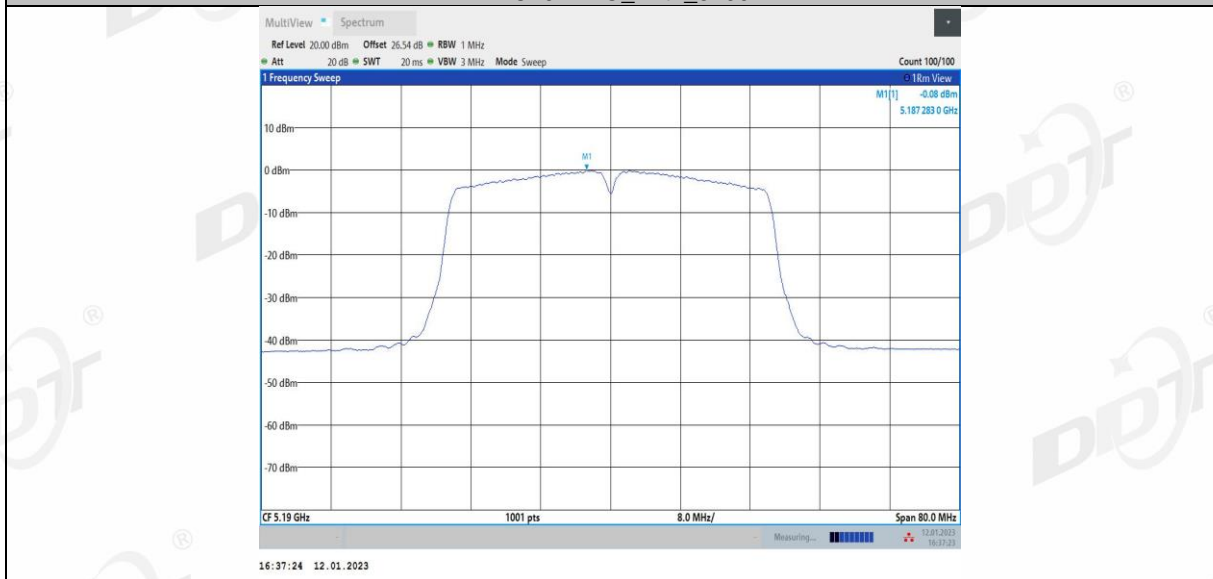
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11AC40MIMO\_Ant1\_5190

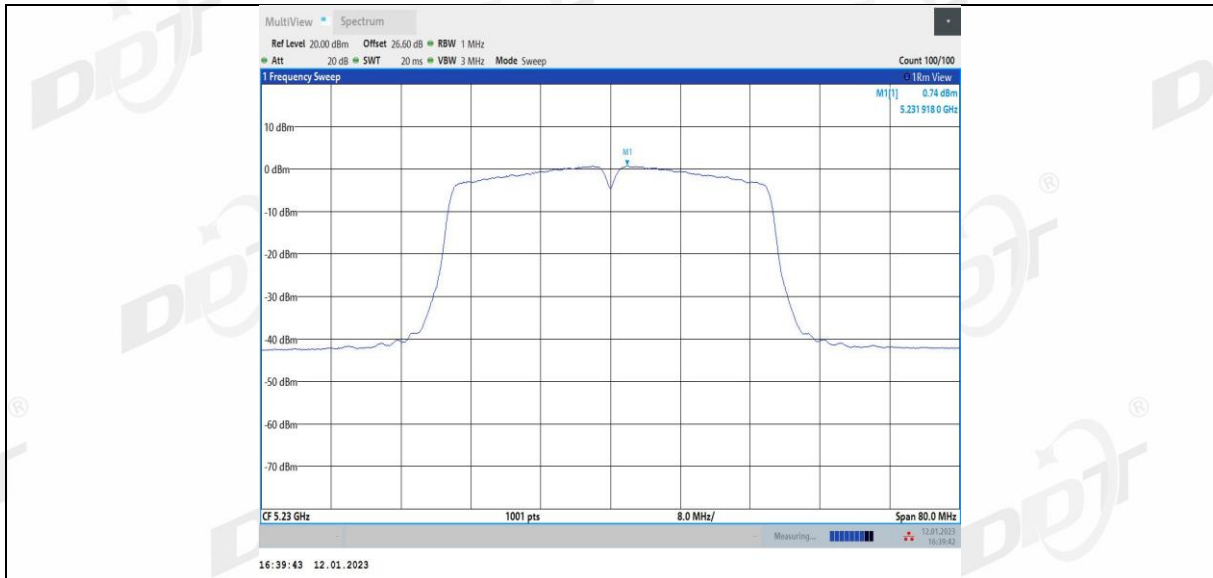


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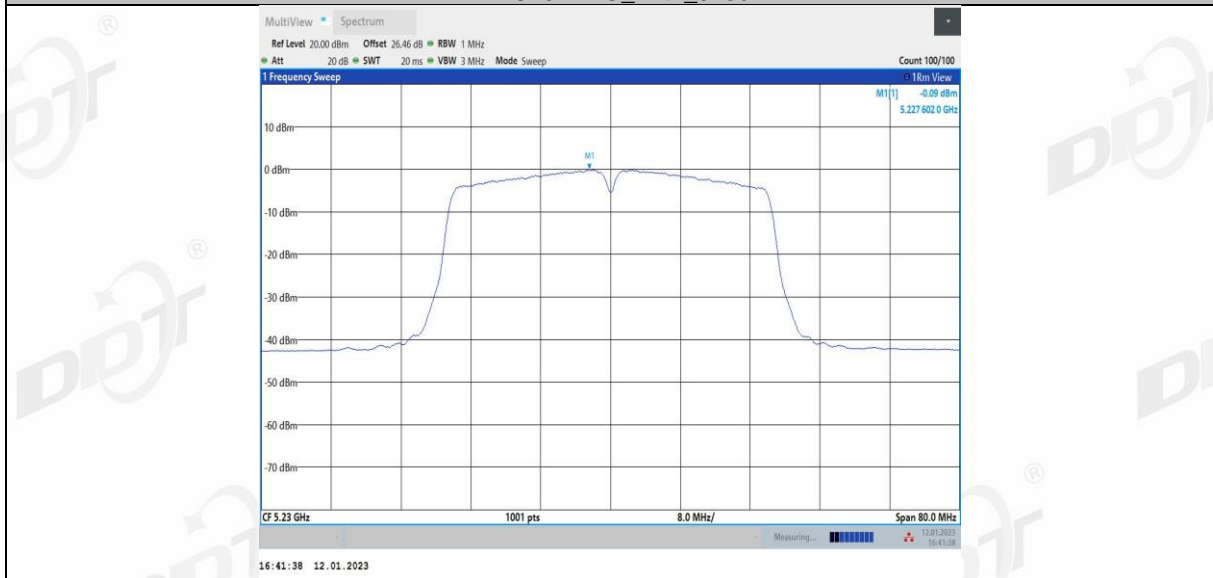


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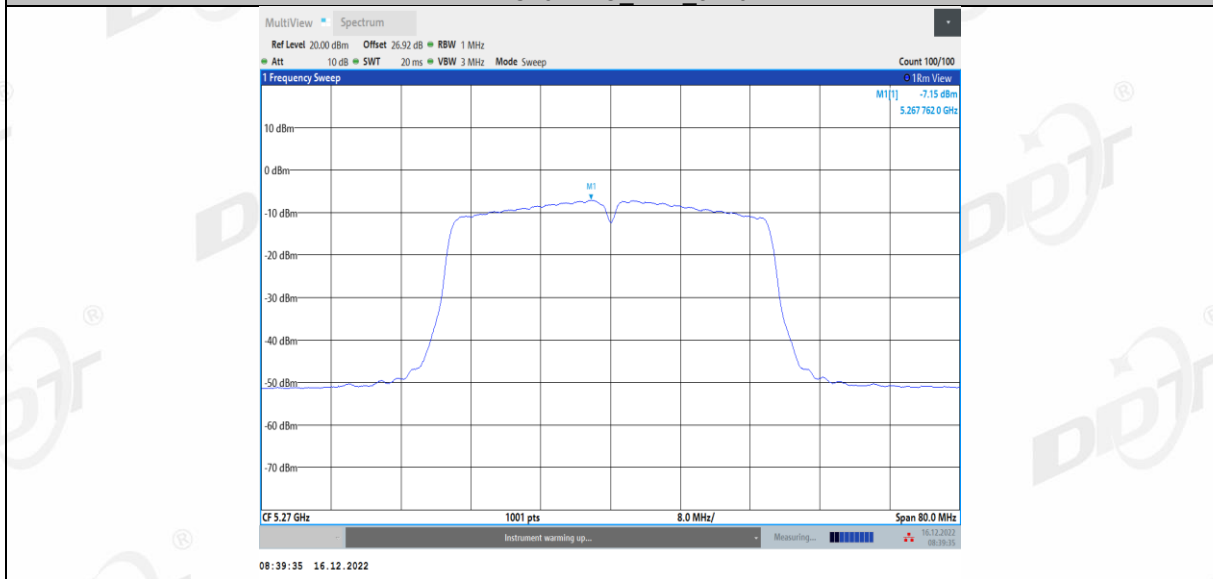




11AC40MIMO\_Ant2\_5230



11AC40MIMO\_Ant1\_5270



11AC40MIMO\_Ant2\_5270