

3. Maximum conducted output power

3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	18.26	≤30.00	PASS
	Ant2	5180	17.25	≤30.00	PASS
	Ant1	5200	18.19	≤30.00	PASS
	Ant2	5200	17.14	≤30.00	PASS
	Ant1	5240	18.58	≤30.00	PASS
	Ant2	5240	17.48	≤30.00	PASS
	Ant1	5260	18.53	≤24.00	PASS
	Ant2	5260	17.24	≤24.00	PASS
	Ant1	5280	18.48	≤24.00	PASS
	Ant2	5280	17.38	≤24.00	PASS
	Ant1	5320	18.15	≤24.00	PASS
	Ant2	5320	17.68	≤24.00	PASS
	Ant1	5500	18.10	≤24.00	PASS
	Ant2	5500	17.23	≤24.00	PASS
	Ant1	5580	17.91	≤24.00	PASS
	Ant2	5580	17.73	≤24.00	PASS
	Ant1	5720_UNII-2C	16.24	≤24.00	PASS
	Ant2	5720_UNII-2C	16.31	≤24.00	PASS
	Ant1	5720_UNII-3	8.45	≤30.00	PASS
	Ant2	5720_UNII-3	8.52	≤30.00	PASS
	Ant1	5745	19.13	≤30.00	PASS
	Ant2	5745	18.43	≤30.00	PASS
	Ant1	5785	19.19	≤30.00	PASS
	Ant2	5785	18.20	≤30.00	PASS
	Ant1	5825	19.15	≤30.00	PASS
	Ant2	5825	18.07	≤30.00	PASS
11N20MIMO	Ant1	5180	17.56	≤30.00	PASS
	Ant2	5180	16.88	≤30.00	PASS
	total	5180	20.24	≤29.54	PASS
	Ant1	5200	17.50	≤30.00	PASS
	Ant2	5200	16.92	≤30.00	PASS
	total	5200	20.23	≤29.54	PASS
	Ant1	5240	17.41	≤30.00	PASS
	Ant2	5240	16.49	≤30.00	PASS
	total	5240	19.98	≤29.54	PASS
	Ant1	5260	18.06	≤24.00	PASS
	Ant2	5260	16.36	≤24.00	PASS
	total	5260	20.30	≤23.53	PASS
	Ant1	5280	17.94	≤24.00	PASS
	Ant2	5280	16.35	≤24.00	PASS

	total	5280	20.23	≤23.53	PASS
	Ant1	5320	17.06	≤24.00	PASS
	Ant2	5320	16.55	≤24.00	PASS
	total	5320	19.82	≤23.53	PASS
	Ant1	5500	17.33	≤24.00	PASS
	Ant2	5500	16.76	≤24.00	PASS
	total	5500	20.06	≤23.81	PASS
	Ant1	5580	17.74	≤24.00	PASS
	Ant2	5580	16.70	≤24.00	PASS
	total	5580	20.26	≤23.81	PASS
	Ant1	5720_UNII-2C	16.07	≤24.00	PASS
	Ant2	5720_UNII-2C	15.59	≤24.00	PASS
	total	5720_UNII-2C	18.85	≤23.81	PASS
	Ant1	5720_UNII-3	8.65	≤30.00	PASS
	Ant2	5720_UNII-3	8.24	≤30.00	PASS
	total	5720_UNII-3	11.46	≤29.85	PASS
	Ant1	5745	17.96	≤30.00	PASS
	Ant2	5745	17.08	≤30.00	PASS
	total	5745	20.55	≤29.85	PASS
	Ant1	5785	18.10	≤30.00	PASS
	Ant2	5785	17.01	≤30.00	PASS
	total	5785	20.60	≤29.85	PASS
	Ant1	5825	18.13	≤30.00	PASS
	Ant2	5825	16.74	≤30.00	PASS
	total	5825	20.50	≤29.85	PASS
11N40MIMO	Ant1	5190	17.30	≤30.00	PASS
	Ant2	5190	16.69	≤30.00	PASS
	total	5190	20.02	≤29.54	PASS
	Ant1	5230	17.16	≤30.00	PASS
	Ant2	5230	16.30	≤30.00	PASS
	total	5230	19.76	≤29.54	PASS
	Ant1	5270	17.68	≤24.00	PASS
	Ant2	5270	16.17	≤24.00	PASS
	total	5270	20.00	≤23.53	PASS
	Ant1	5310	16.92	≤24.00	PASS
	Ant2	5310	16.28	≤24.00	PASS
	total	5310	19.62	≤23.53	PASS
	Ant1	5510	17.64	≤24.00	PASS
	Ant2	5510	17.08	≤24.00	PASS
	total	5510	20.38	≤23.81	PASS
	Ant1	5550	17.43	≤24.00	PASS
	Ant2	5550	16.41	≤24.00	PASS
	total	5550	19.96	≤23.81	PASS
	Ant1	5710_UNII-2C	17.70	≤24.00	PASS
	Ant2	5710_UNII-2C	17.35	≤24.00	PASS

	total	5710_UNII-2C	20.54	≤23.81	PASS
	Ant1	5710_UNII-3	5.21	≤30.00	PASS
	Ant2	5710_UNII-3	4.96	≤30.00	PASS
	total	5710_UNII-3	8.10	≤29.85	PASS
	Ant1	5755	18.45	≤30.00	PASS
	Ant2	5755	17.60	≤30.00	PASS
	total	5755	21.06	≤29.85	PASS
	Ant1	5795	18.61	≤30.00	PASS
	Ant2	5795	17.48	≤30.00	PASS
11AC20MIMO	total	5795	21.09	≤29.85	PASS
	Ant1	5180	17.57	≤30.00	PASS
	Ant2	5180	16.86	≤30.00	PASS
	total	5180	20.24	≤29.54	PASS
	Ant1	5200	17.53	≤30.00	PASS
	Ant2	5200	16.87	≤30.00	PASS
	total	5200	20.22	≤29.54	PASS
	Ant1	5240	17.41	≤30.00	PASS
	Ant2	5240	16.50	≤30.00	PASS
	total	5240	19.99	≤29.54	PASS
	Ant1	5260	17.37	≤24.00	PASS
	Ant2	5260	15.57	≤24.00	PASS
	total	5260	19.57	≤23.53	PASS
	Ant1	5280	18.01	≤24.00	PASS
	Ant2	5280	16.45	≤24.00	PASS
	total	5280	20.31	≤23.53	PASS
	Ant1	5320	17.13	≤24.00	PASS
	Ant2	5320	16.47	≤24.00	PASS
	total	5320	19.82	≤23.53	PASS
	Ant1	5500	17.39	≤24.00	PASS
	Ant2	5500	16.82	≤24.00	PASS
	total	5500	20.12	≤23.81	PASS
	Ant1	5580	17.71	≤24.00	PASS
	Ant2	5580	16.77	≤24.00	PASS
	total	5580	20.28	≤23.81	PASS
	Ant1	5720_UNII-2C	16.96	≤24.00	PASS
	Ant2	5720_UNII-2C	16.54	≤24.00	PASS
	total	5720_UNII-2C	19.77	≤23.81	PASS
	Ant1	5720_UNII-3	9.50	≤30.00	PASS
	Ant2	5720_UNII-3	9.12	≤30.00	PASS
	total	5720_UNII-3	12.32	≤29.85	PASS
	Ant1	5745	18.04	≤30.00	PASS
	Ant2	5745	17.12	≤30.00	PASS
	total	5745	20.61	≤29.85	PASS
	Ant1	5785	18.13	≤30.00	PASS
	Ant2	5785	17.01	≤30.00	PASS

	total	5785	20.62	≤29.85	PASS
	Ant1	5825	18.14	≤30.00	PASS
	Ant2	5825	16.87	≤30.00	PASS
	total	5825	20.56	≤29.85	PASS
11AC40MIMO	Ant1	5190	17.28	≤30.00	PASS
	Ant2	5190	16.66	≤30.00	PASS
	total	5190	19.99	≤29.54	PASS
	Ant1	5230	17.14	≤30.00	PASS
	Ant2	5230	16.22	≤30.00	PASS
	total	5230	19.71	≤29.54	PASS
	Ant1	5270	18.54	≤24.00	PASS
	Ant2	5270	16.98	≤24.00	PASS
	total	5270	20.84	≤23.53	PASS
	Ant1	5310	16.84	≤24.00	PASS
	Ant2	5310	16.35	≤24.00	PASS
	total	5310	19.61	≤23.53	PASS
	Ant1	5510	17.68	≤24.00	PASS
	Ant2	5510	17.05	≤24.00	PASS
	total	5510	20.39	≤23.81	PASS
	Ant1	5550	17.40	≤24.00	PASS
	Ant2	5550	16.42	≤24.00	PASS
	total	5550	19.95	≤23.81	PASS
	Ant1	5710_UNII-2C	16.76	≤24.00	PASS
	Ant2	5710_UNII-2C	16.41	≤24.00	PASS
	total	5710_UNII-2C	19.60	≤23.81	PASS
	Ant1	5710_UNII-3	4.40	≤30.00	PASS
	Ant2	5710_UNII-3	4.13	≤30.00	PASS
	total	5710_UNII-3	7.28	≤29.85	PASS
	Ant1	5755	18.48	≤30.00	PASS
	Ant2	5755	17.62	≤30.00	PASS
	total	5755	21.08	≤29.85	PASS
	Ant1	5795	18.63	≤30.00	PASS
	Ant2	5795	17.48	≤30.00	PASS
	total	5795	21.10	≤29.85	PASS
11AC80MIMO	Ant1	5210	17.32	≤30.00	PASS
	Ant2	5210	16.55	≤30.00	PASS
	total	5210	19.96	≤29.54	PASS
	Ant1	5290	17.86	≤24.00	PASS
	Ant2	5290	16.27	≤24.00	PASS
	total	5290	20.15	≤23.53	PASS
	Ant1	5530	15.76	≤24.00	PASS
	Ant2	5530	15.05	≤24.00	PASS
	total	5530	18.43	≤23.81	PASS
	Ant1	5610	15.50	≤24.00	PASS
	Ant2	5610	14.36	≤24.00	PASS

	total	5610	17.98	≤23.81	PASS
	Ant1	5690_UNII-2C	14.53	≤24.00	PASS
	Ant2	5690_UNII-2C	14.23	≤24.00	PASS
	total	5690_UNII-2C	17.39	≤23.81	PASS
	Ant1	5690_UNII-3	0.54	≤30.00	PASS
	Ant2	5690_UNII-3	0.36	≤30.00	PASS
	total	5690_UNII-3	3.46	≤29.85	PASS
	Ant1	5775	20.13	≤30.00	PASS
	Ant2	5775	19.19	≤30.00	PASS
	total	5775	22.70	≤29.85	PASS

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two antennas for transmitting and receiving.
When ANT.1 and ANT. 2 transmitting simultaneously, and the
Directional Gain=6.46dBi>6dBi. (Ant.1:3.67dBi; Ant.2:3.22dBi) For U-NII-1: 5180MHz-5240MHz
Directional Gain=6.47dBi>6dBi. (Ant.1:3.67dBi; Ant.2:3.23dBi) For U-NII-2A: 5240MHz-5320MHz
Directional Gain=6.19dBi>6dBi. (Ant.1:3.11dBi; Ant.2:3.24dBi) For U-NII-2C: 5500MHz-5720MHz
Directional Gain=6.15dBi>6dBi. (Ant.1:2.99dBi; Ant.2:3.28dBi) For U-NII-3: 5745MHz-5825MHz
So $P_{out} = P_{limit} - (G_{TX} - 6) = (30 - 0.46) \text{dBm} = 29.54 \text{dBm}$ For U-NII-1: 5180MHz-5240MHz
So $P_{out} = P_{limit} - (G_{TX} - 6) = (24 - 0.47) \text{dBm} = 23.53 \text{dBm}$ For U-NII-2A: 5260MHz-5320MHz
So $P_{out} = P_{limit} - (G_{TX} - 6) = (24 - 0.19) \text{dBm} = 23.81 \text{dBm}$ For U-NII-2C: 5500MHz-5720MHz
So $P_{out} = P_{limit} - (G_{TX} - 6) = (30 - 0.15) \text{dBm} = 29.85 \text{dBm}$ For U-NII-3: 5745MHz-5825MHz

The Duty Cycle Factor is compensated in the graph.

Directional gain = $10 * \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$

4. Maximum power spectral density

4.1. Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Result [dBm/500kHz]	Limit [dBm/MHz]	Limit [dBm/500kHz]	Verdict
11A	Ant1	5180	6.8	---	≤17.00	---	PASS
	Ant2	5180	6.24	---	≤17.00	---	PASS
	Ant1	5200	6.46	---	≤17.00	---	PASS
	Ant2	5200	6.14	---	≤17.00	---	PASS
	Ant1	5240	7.39	---	≤17.00	---	PASS
	Ant2	5240	6.47	---	≤17.00	---	PASS
	Ant1	5260	7.35	---	≤11.00	---	PASS
	Ant2	5260	6.03	---	≤11.00	---	PASS
	Ant1	5280	6.81	---	≤11.00	---	PASS
	Ant2	5280	6.01	---	≤11.00	---	PASS
	Ant1	5320	6.74	---	≤11.00	---	PASS
	Ant2	5320	6.77	---	≤11.00	---	PASS
	Ant1	5500	7.22	---	≤11.00	---	PASS
	Ant2	5500	6.97	---	≤11.00	---	PASS
	Ant1	5580	6.49	---	≤11.00	---	PASS
	Ant2	5580	6.81	---	≤11.00	---	PASS
	Ant1	5720_UNII-2C	6.77	---	≤11.00	---	PASS
	Ant2	5720_UNII-2C	6.22	---	≤11.00	---	PASS
	Ant1	5720_UNII-3	---	1.83	---	≤30.00	PASS
	Ant2	5720_UNII-3	---	1.3	---	≤30.00	PASS
	Ant1	5745	---	5.28	---	≤30.00	PASS
	Ant2	5745	---	5.19	---	≤30.00	PASS
	Ant1	5785	---	5.1	---	≤30.00	PASS
	Ant2	5785	---	5.14	---	≤30.00	PASS
	Ant1	5825	---	5.73	---	≤30.00	PASS
	Ant2	5825	---	5.16	---	≤30.00	PASS
11N20MIMO	Ant1	5180	6.91	---	≤17.00	---	PASS
	Ant2	5180	6.49	---	≤17.00	---	PASS
	total	5180	9.72	---	≤16.54	---	PASS
	Ant1	5200	6.12	---	≤17.00	---	PASS
	Ant2	5200	5.88	---	≤17.00	---	PASS
	total	5200	9.01	---	≤16.54	---	PASS
	Ant1	5240	6.37	---	≤17.00	---	PASS
	Ant2	5240	5.94	---	≤17.00	---	PASS
	total	5240	9.17	---	≤16.54	---	PASS
	Ant1	5260	6.95	---	≤11.00	---	PASS
	Ant2	5260	5.38	---	≤11.00	---	PASS
	total	5260	9.25	---	≤10.53	---	PASS
	Ant1	5280	6.81	---	≤11.00	---	PASS
	Ant2	5280	5.67	---	≤11.00	---	PASS
	total	5280	9.29	---	≤10.53	---	PASS
	Ant1	5320	6.14	---	≤11.00	---	PASS
	Ant2	5320	6.42	---	≤11.00	---	PASS
	total	5320	9.29	---	≤10.53	---	PASS
	Ant1	5500	6.67	---	≤11.00	---	PASS
	Ant2	5500	6.38	---	≤11.00	---	PASS
	total	5500	9.54	---	≤10.81	---	PASS
	Ant1	5580	6.87	---	≤11.00	---	PASS
	Ant2	5580	6.31	---	≤11.00	---	PASS
	total	5580	9.61	---	≤10.81	---	PASS
	Ant1	5720_UNII-2C	6.43	---	≤11.00	---	PASS

	Ant2	5720_UNII-2C	6.08	---	≤11.00	---	PASS
	total	5720_UNII-2C	9.27	---	≤10.81	---	PASS
	Ant1	5720_UNII-3	---	1.34	---	≤30.00	PASS
	Ant2	5720_UNII-3	---	1.1	---	≤30.00	PASS
	total	5720_UNII-3	---	4.23	---	≤29.85	PASS
	Ant1	5745	---	4.07	---	≤30.00	PASS
	Ant2	5745	---	3.02	---	≤30.00	PASS
	total	5745	---	6.59	---	≤29.85	PASS
	Ant1	5785	---	3.48	---	≤30.00	PASS
	Ant2	5785	---	3.03	---	≤30.00	PASS
	total	5785	---	6.27	---	≤29.85	PASS
	Ant1	5825	---	4.77	---	≤30.00	PASS
	Ant2	5825	---	3.51	---	≤30.00	PASS
	total	5825	---	7.20	---	≤29.85	PASS
11N40MIMO	Ant1	5190	2.54	---	≤17.00	---	PASS
	Ant2	5190	3.36	---	≤17.00	---	PASS
	total	5190	5.98	---	≤16.54	---	PASS
	Ant1	5230	2.63	---	≤17.00	---	PASS
	Ant2	5230	2.26	---	≤17.00	---	PASS
	total	5230	5.46	---	≤16.54	---	PASS
	Ant1	5270	3.51	---	≤11.00	---	PASS
	Ant2	5270	1.67	---	≤11.00	---	PASS
	total	5270	5.70	---	≤10.53	---	PASS
	Ant1	5310	2.69	---	≤11.00	---	PASS
	Ant2	5310	2.49	---	≤11.00	---	PASS
	total	5310	5.60	---	≤10.53	---	PASS
	Ant1	5510	4.01	---	≤11.00	---	PASS
	Ant2	5510	3.96	---	≤11.00	---	PASS
	total	5510	7.00	---	≤10.81	---	PASS
	Ant1	5550	4.47	---	≤11.00	---	PASS
	Ant2	5550	2.89	---	≤11.00	---	PASS
	total	5550	6.76	---	≤10.81	---	PASS
	Ant1	5710_UNII-2C	5.4	---	≤11.00	---	PASS
	Ant2	5710_UNII-2C	4.25	---	≤11.00	---	PASS
	total	5710_UNII-2C	7.87	---	≤10.81	---	PASS
	Ant1	5710_UNII-3	---	-1.66	---	≤30.00	PASS
	Ant2	5710_UNII-3	---	-1.58	---	≤30.00	PASS
	total	5710_UNII-3	---	1.39	---	≤29.85	PASS
	Ant1	5755	---	1.4	---	≤30.00	PASS
	Ant2	5755	---	0.23	---	≤30.00	PASS
	total	5755	---	3.86	---	≤29.85	PASS
	Ant1	5795	---	1.09	---	≤30.00	PASS
	Ant2	5795	---	0.57	---	≤30.00	PASS
	total	5795	---	3.85	---	≤29.85	PASS
11AC20MIMO	Ant1	5180	6.56	---	≤17.00	---	PASS
	Ant2	5180	6.81	---	≤17.00	---	PASS
	total	5180	9.70	---	≤16.54	---	PASS
	Ant1	5200	6.3	---	≤17.00	---	PASS
	Ant2	5200	6.26	---	≤17.00	---	PASS
	total	5200	9.29	---	≤16.54	---	PASS
	Ant1	5240	6.14	---	≤17.00	---	PASS
	Ant2	5240	5.59	---	≤17.00	---	PASS
	total	5240	8.88	---	≤16.54	---	PASS
	Ant1	5260	5.73	---	≤11.00	---	PASS
	Ant2	5260	5.04	---	≤11.00	---	PASS
	total	5260	8.41	---	≤10.53	---	PASS
	Ant1	5280	6.59	---	≤11.00	---	PASS
	Ant2	5280	5.55	---	≤11.00	---	PASS

	total	5280	9.11	---	≤10.53	---	PASS
	Ant1	5320	6.36	---	≤11.00	---	PASS
	Ant2	5320	5.98	---	≤11.00	---	PASS
	total	5320	9.18	---	≤10.53	---	PASS
	Ant1	5500	6.32	---	≤11.00	---	PASS
	Ant2	5500	5.99	---	≤11.00	---	PASS
	total	5500	9.17	---	≤10.81	---	PASS
	Ant1	5580	7.48	---	≤11.00	---	PASS
	Ant2	5580	6.26	---	≤11.00	---	PASS
	total	5580	9.92	---	≤10.81	---	PASS
	Ant1	5720_UNII-2C	6.96	---	≤11.00	---	PASS
	Ant2	5720_UNII-2C	6.49	---	≤11.00	---	PASS
	total	5720_UNII-2C	9.74	---	≤10.81	---	PASS
	Ant1	5720_UNII-3	---	2.28	---	≤30.00	PASS
	Ant2	5720_UNII-3	---	1.76	---	≤30.00	PASS
	total	5720_UNII-3	---	5.04	---	≤29.85	PASS
	Ant1	5745	---	3.84	---	≤30.00	PASS
	Ant2	5745	---	3.14	---	≤30.00	PASS
	total	5745	---	6.51	---	≤29.85	PASS
	Ant1	5785	---	3.64	---	≤30.00	PASS
	Ant2	5785	---	3	---	≤30.00	PASS
	total	5785	---	6.34	---	≤29.85	PASS
	Ant1	5825	---	4.63	---	≤30.00	PASS
	Ant2	5825	---	3.3	---	≤30.00	PASS
	total	5825	---	7.03	---	≤29.85	PASS
11AC40MIMO	Ant1	5190	2.87	---	≤17.00	---	PASS
	Ant2	5190	3.28	---	≤17.00	---	PASS
	total	5190	6.09	---	≤16.54	---	PASS
	Ant1	5230	2.78	---	≤17.00	---	PASS
	Ant2	5230	2.35	---	≤17.00	---	PASS
	total	5230	5.58	---	≤16.54	---	PASS
	Ant1	5270	4.52	---	≤11.00	---	PASS
	Ant2	5270	3.26	---	≤11.00	---	PASS
	total	5270	6.95	---	≤10.53	---	PASS
	Ant1	5310	3.17	---	≤11.00	---	PASS
	Ant2	5310	3.08	---	≤11.00	---	PASS
	total	5310	6.14	---	≤10.53	---	PASS
	Ant1	5510	4.08	---	≤11.00	---	PASS
	Ant2	5510	3.73	---	≤11.00	---	PASS
	total	5510	6.92	---	≤10.81	---	PASS
	Ant1	5550	3.73	---	≤11.00	---	PASS
	Ant2	5550	3.27	---	≤11.00	---	PASS
	total	5550	6.52	---	≤10.81	---	PASS
	Ant1	5710_UNII-2C	3.91	---	≤11.00	---	PASS
	Ant2	5710_UNII-2C	3.69	---	≤11.00	---	PASS
	total	5710_UNII-2C	6.81	---	≤10.81	---	PASS
	Ant1	5710_UNII-3	---	-2.48	---	≤30.00	PASS
	Ant2	5710_UNII-3	---	-2.51	---	≤30.00	PASS
	total	5710_UNII-3	---	0.52	---	≤29.85	PASS
	Ant1	5755	---	1.78	---	≤30.00	PASS
	Ant2	5755	---	0.73	---	≤30.00	PASS
	total	5755	---	4.30	---	≤29.85	PASS
	Ant1	5795	---	1.51	---	≤30.00	PASS
	Ant2	5795	---	0.78	---	≤30.00	PASS
	total	5795	---	4.17	---	≤29.85	PASS
11AC80MIMO	Ant1	5210	0.36	---	≤17.00	---	PASS
	Ant2	5210	0.39	---	≤17.00	---	PASS
	total	5210	3.39	---	≤16.54	---	PASS

Ant1	5290	0.28	---	≤11.00	---	PASS
Ant2	5290	-0.95	---	≤11.00	---	PASS
total	5290	2.72	---	≤10.53	---	PASS
Ant1	5530	-1.04	---	≤11.00	---	PASS
Ant2	5530	-0.65	---	≤11.00	---	PASS
total	5530	2.17	---	≤10.81	---	PASS
Ant1	5610	-1.89	---	≤11.00	---	PASS
Ant2	5610	-2.51	---	≤11.00	---	PASS
total	5610	0.82	---	≤10.81	---	PASS
Ant1	5690_UNII-2C	-1	---	≤11.00	---	PASS
Ant2	5690_UNII-2C	-1.87	---	≤11.00	---	PASS
total	5690_UNII-2C	1.60	---	≤10.81	---	PASS
Ant1	5690_UNII-3	---	-7.07	---	≤30.00	PASS
Ant2	5690_UNII-3	---	-8.12	---	≤30.00	PASS
total	5690_UNII-3	---	-4.55	---	≤29.85	PASS
Ant1	5775	---	-0.12	---	≤30.00	PASS
Ant2	5775	---	0.59	---	≤30.00	PASS
total	5775	---	3.26	---	≤29.85	PASS

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two antennas for transmitting and receiving.

When ANT.1 and ANT. 2 transmitting simultaneously, and the

Directional Gain=6.46dBi > 6dBi. (Ant.1:3.67dBi; Ant.2:3.22dBi) For U-NII-1: 5180MHz-5240MHz

Directional Gain=6.47dBi > 6dBi. (Ant.1:3.67dBi; Ant.2:3.23dBi) For U-NII-2A: 5240MHz-5320MHz

Directional Gain=6.19dBi > 6dBi. (Ant.1:3.11dBi; Ant.2:3.24dBi) For U-NII-2C: 5500MHz-5720MHz

Directional Gain=6.15dBi > 6dBi. (Ant.1:2.99dBi; Ant.2:3.28dBi) For U-NII-3: 5745MHz-5825MHz

So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (17 - 0.46) \text{dBm/MHz} = 16.54 \text{dBm/MHz}$ For U-NII-1: 5180MHz-5240MHz

So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (11 - 0.47) \text{dBm/MHz} = 10.53 \text{dBm/MHz}$ For U-NII-2A: 5260MHz-5320MHz

So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (11 - 0.19) \text{dBm/MHz} = 10.81 \text{dBm/MHz}$ For U-NII-2C: 5500MHz-5720MHz

So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (30 - 0.15) \text{dBm/500kHz} = 29.85 \text{dBm/500kHz}$ For U-NII-3: 5745MHz-5825MHz

The Duty Cycle Factor is compensated in the graph.

Directional gain = $10 * \log[(10^{G1/20} + 10^{G2/20})^2 / 2]$

4.2. Test Graphs

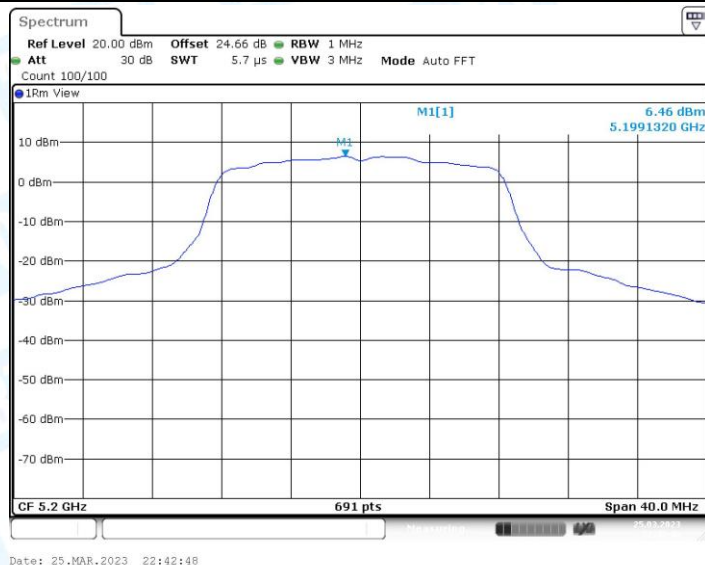
11A_Ant1_5180



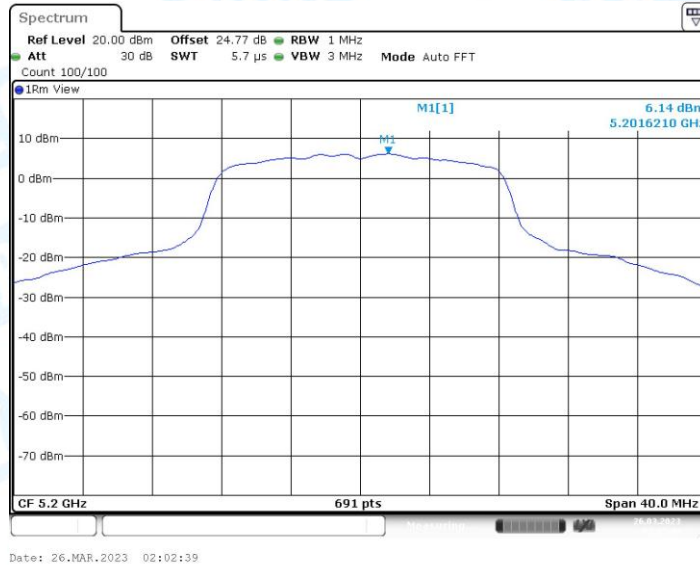
11A_Ant2_5180



11A_Ant1_5200



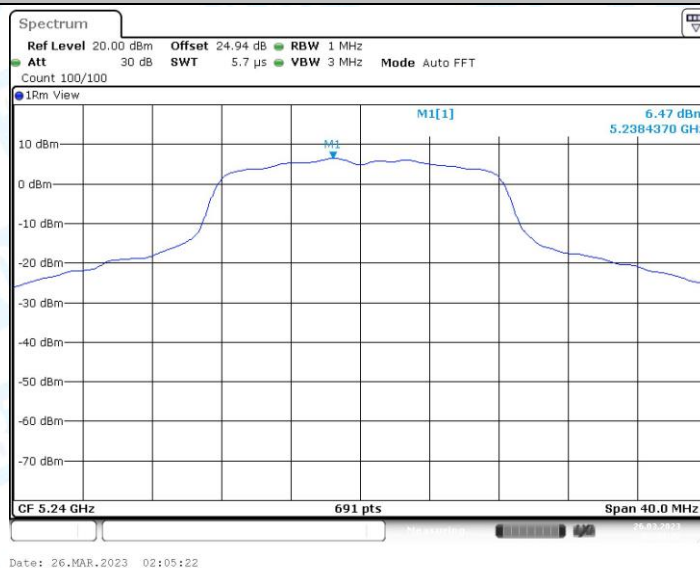
11A_Ant2_5200



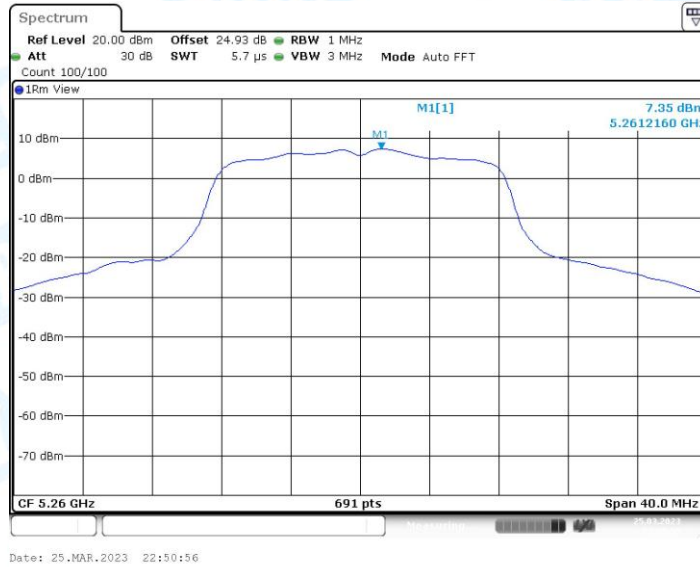
11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5260



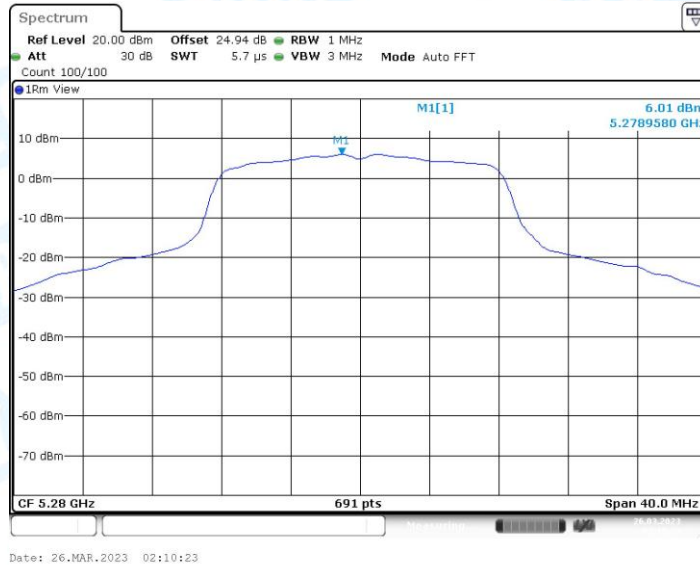
11A_Ant2_5260



11A_Ant1_5280



11A_Ant2_5280



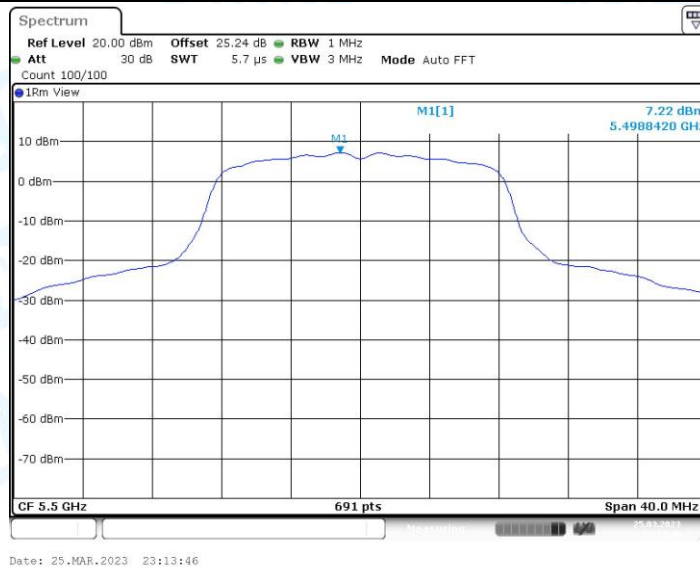
11A_Ant1_5320



11A_Ant2_5320



11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



11A_Ant2_5580



11A_Ant1_5720_UNII-2C



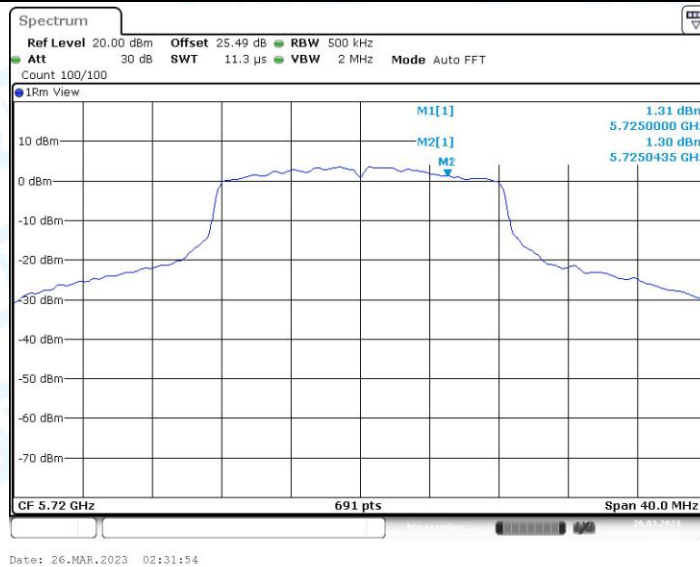
11A_Ant2_5720_UNII-2C



11A_Ant1_5720_UNII-3



11A_Ant2_5720_UNII-3



11A_Ant1_5745



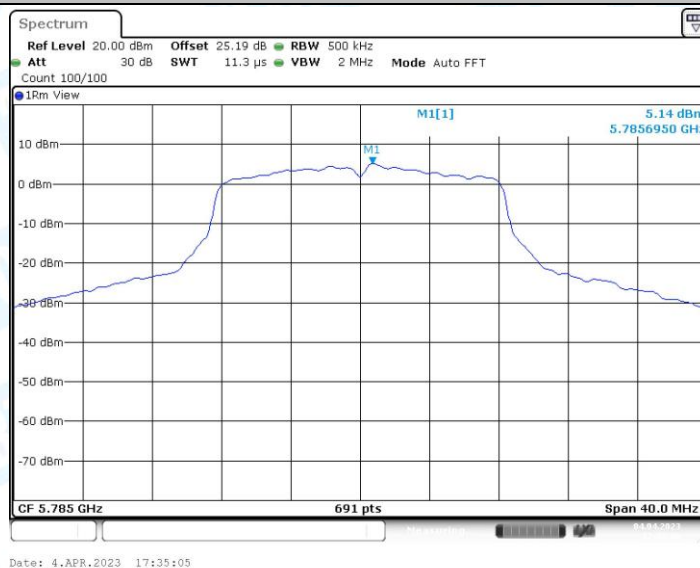
11A_Ant2_5745



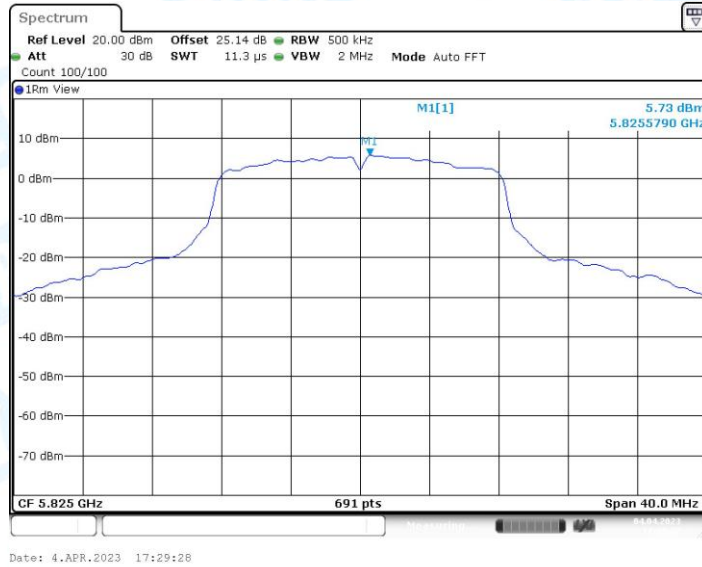
11A_Ant1_5785



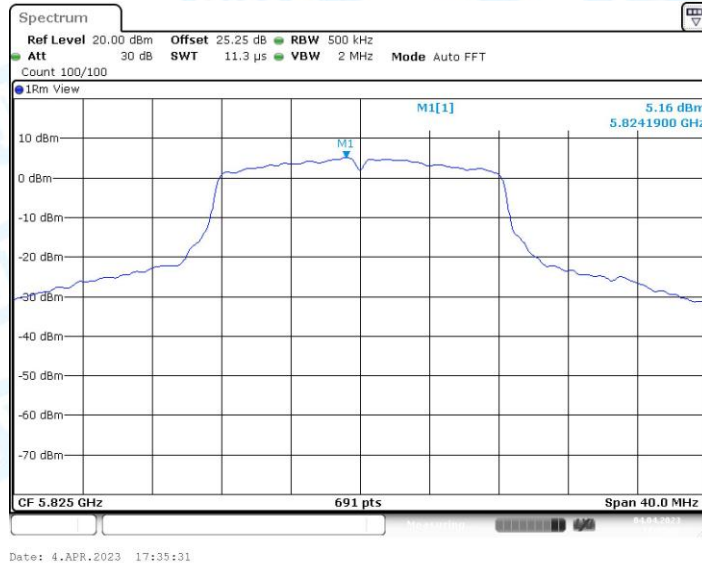
11A_Ant2_5785



11A_Ant1_5825



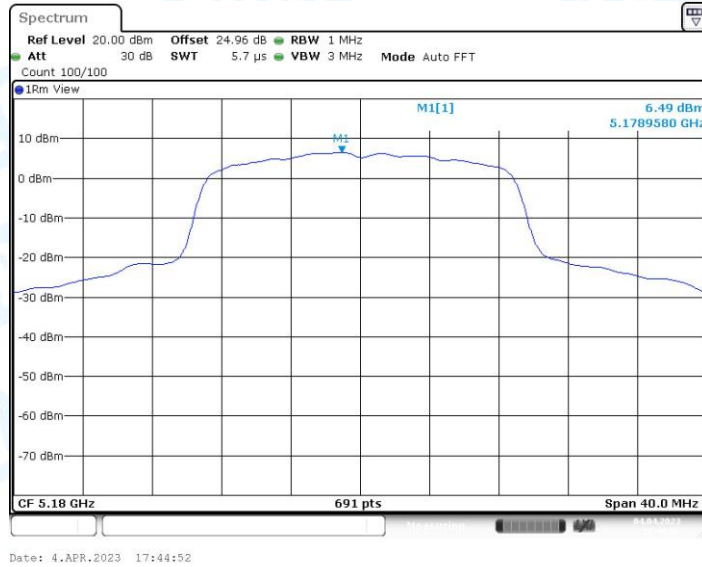
11A_Ant2_5825



11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180



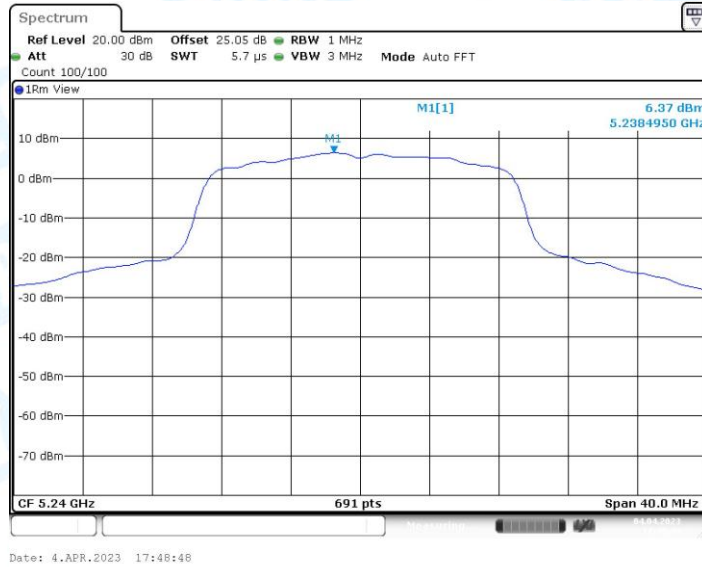
11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



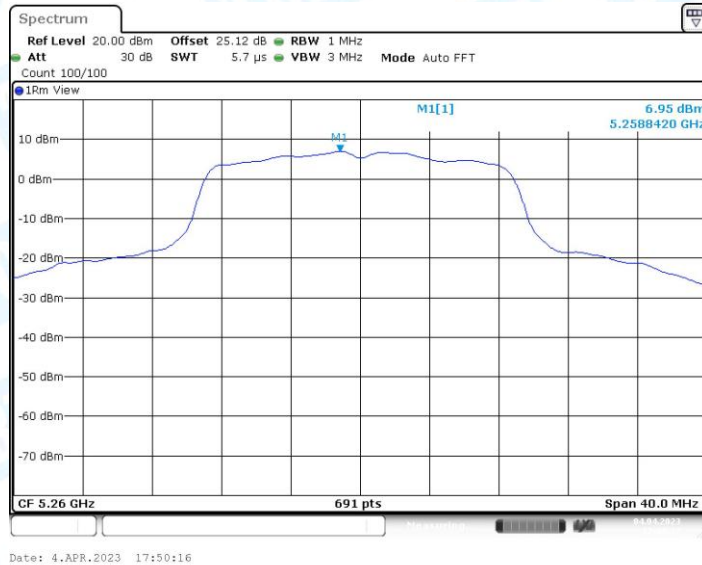
11N20MIMO_Ant1_5240



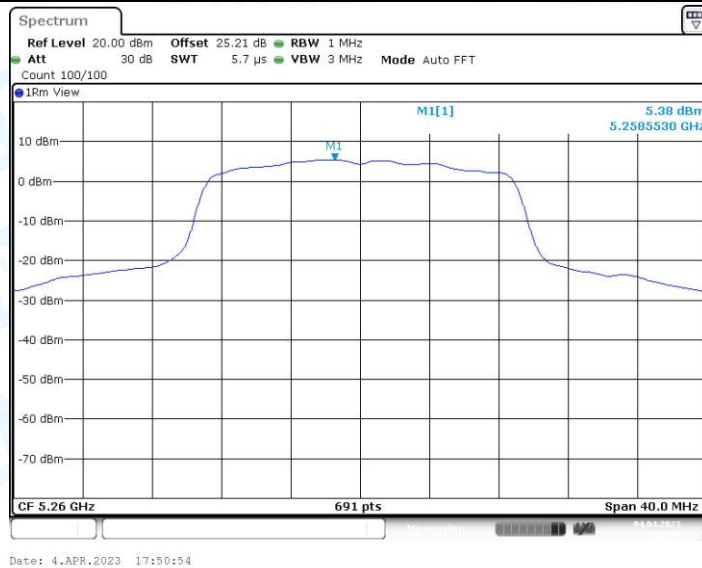
11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5260



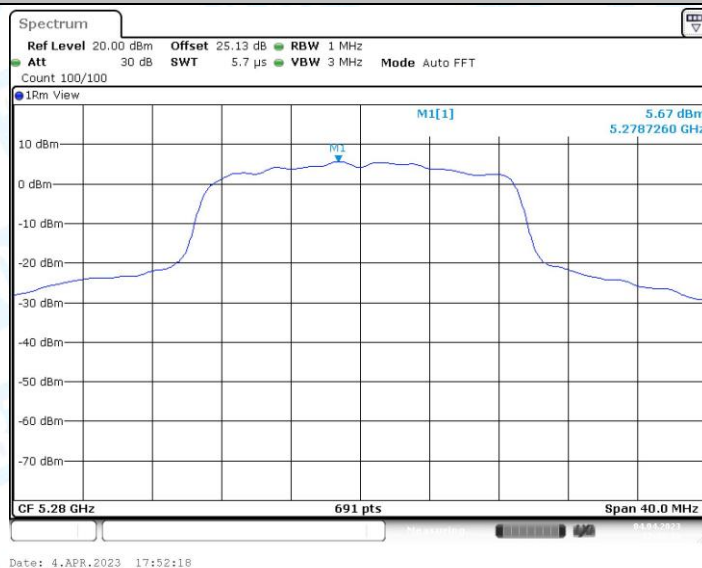
11N20MIMO_Ant2_5260



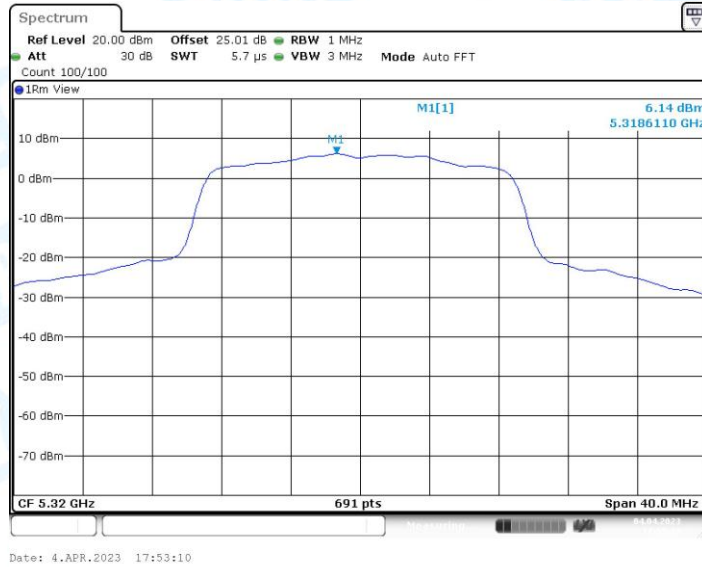
11N20MIMO_Ant1_5280



11N20MIMO_Ant2_5280



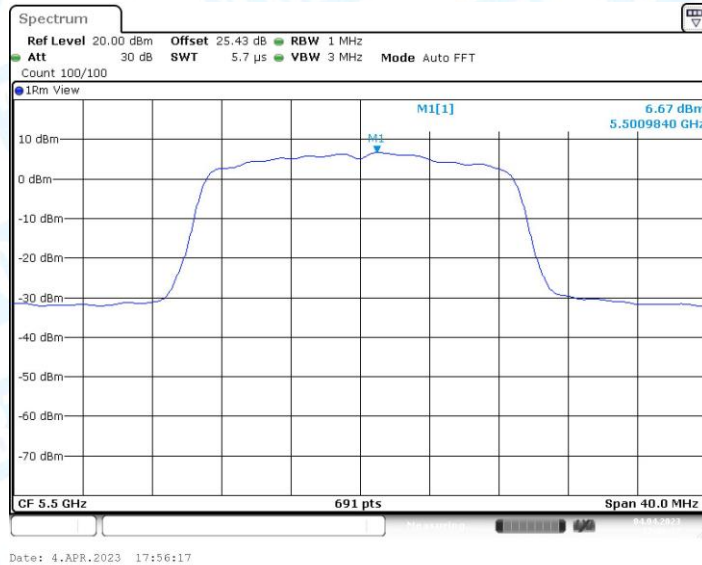
11N20MIMO_Ant1_5320



11N20MIMO_Ant2_5320



11N20MIMO_Ant1_5500



11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580



11N20MIMO_Ant2_5580



11N20MIMO_Ant1_5720_UNII-2C



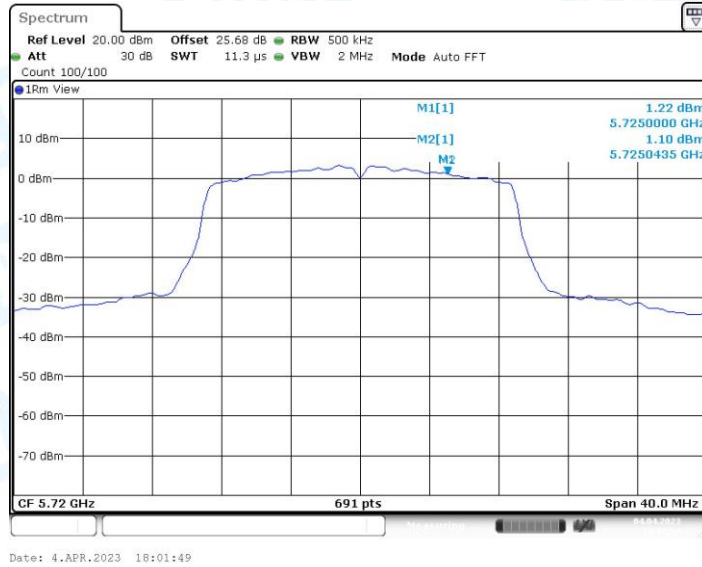
11N20MIMO_Ant2_5720_UNII-2C



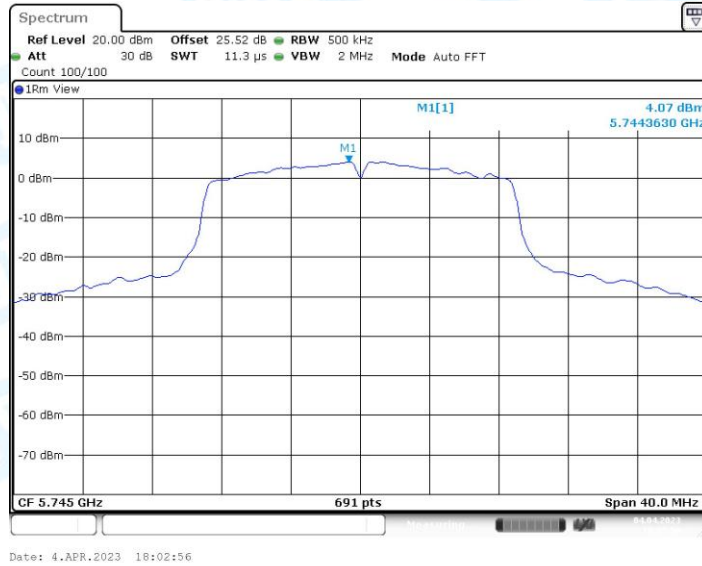
11N20MIMO_Ant1_5720_UNII-3



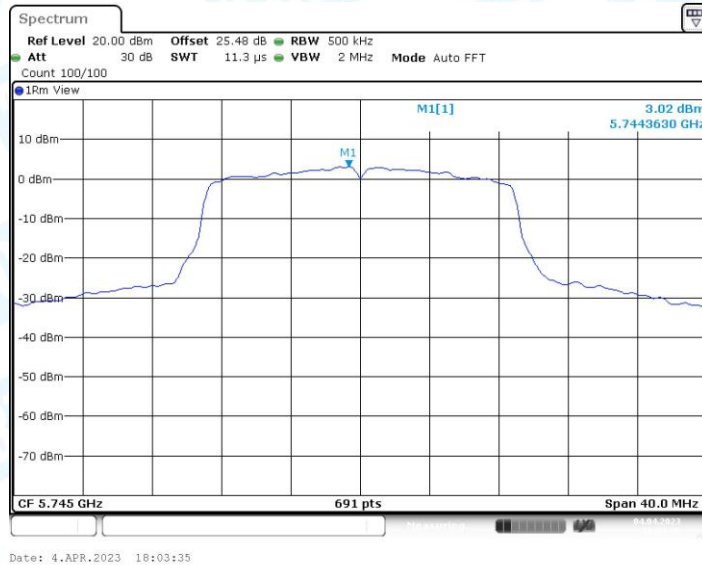
11N20MIMO_Ant2_5720_UNII-3



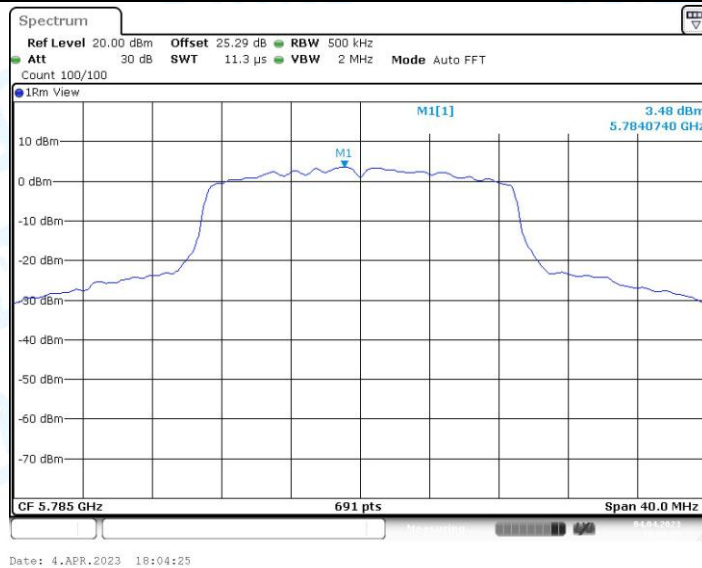
11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



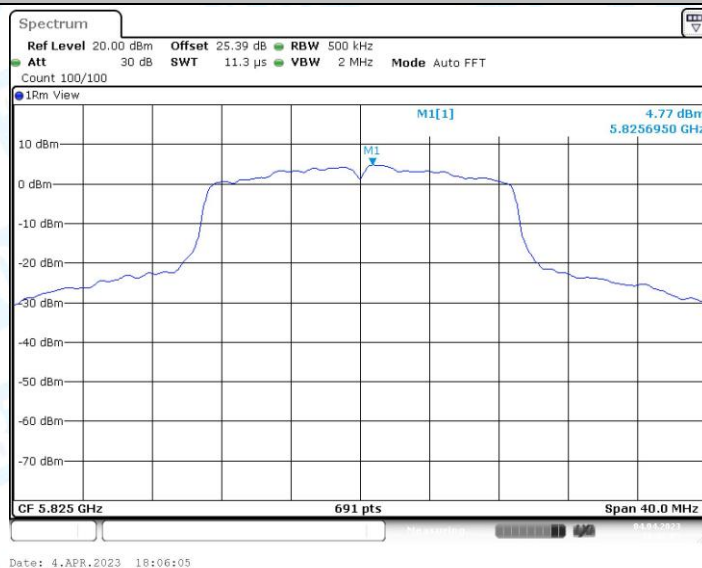
11N20MIMO_Ant1_5785



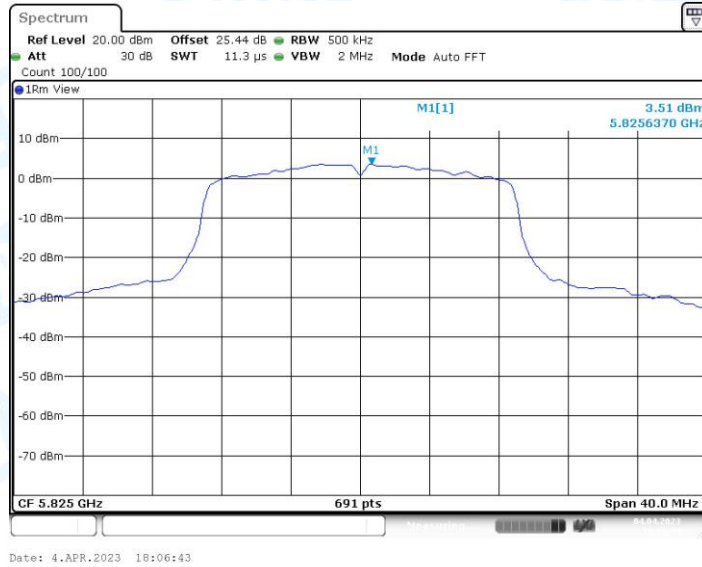
11N20MIMO_Ant2_5785



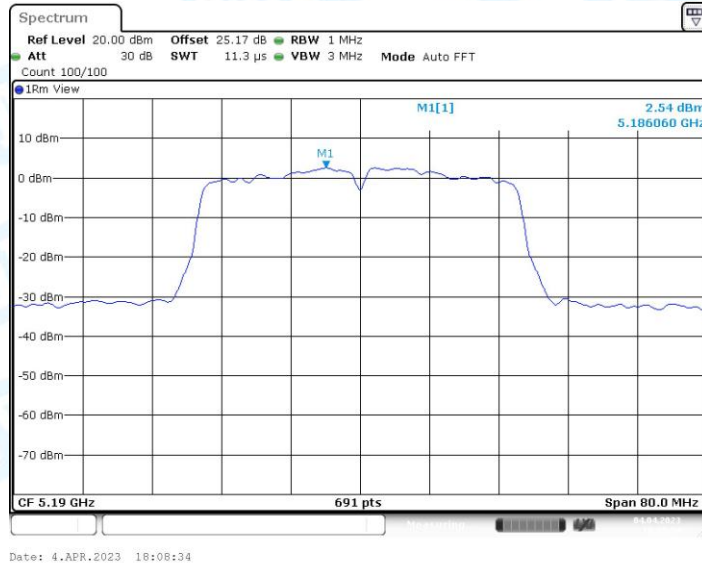
11N20MIMO_Ant1_5825



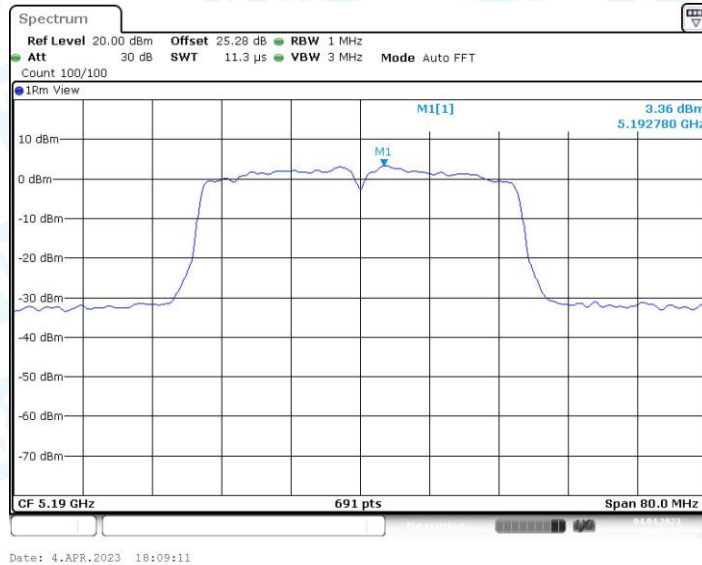
11N20MIMO_Ant2_5825



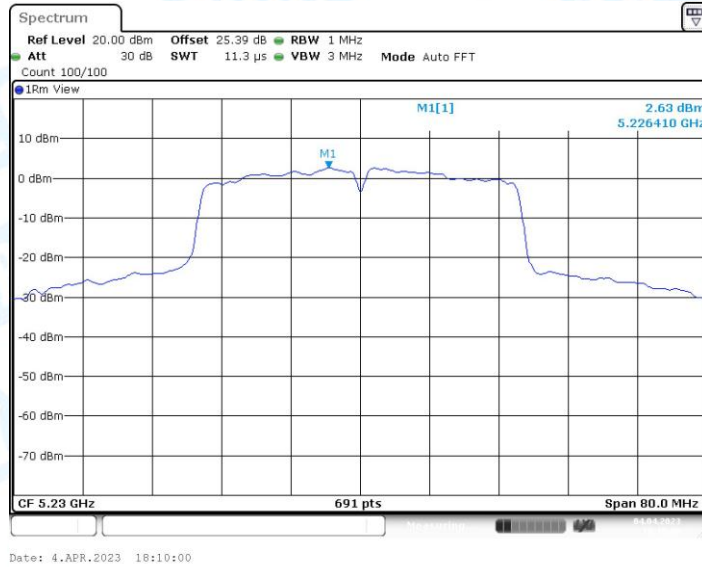
11N40MIMO_Ant1_5190



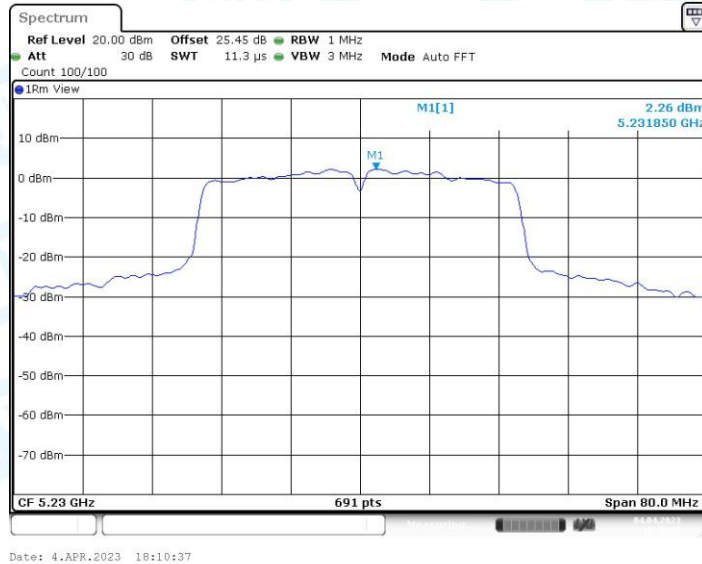
11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270