

AppendixC: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Rate	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	1Mbps	13.59	≤30.00	17.99	≤36.00	PASS
11B	Ant2	2412	1Mbps	13.50	≤30.00	17.70	≤36.00	PASS
11B	Ant1	2437	1Mbps	13.78	≤30.00	18.18	≤36.00	PASS
11B	Ant2	2437	1Mbps	13.90	≤30.00	18.10	≤36.00	PASS
11B	Ant1	2462	1Mbps	13.62	≤30.00	18.02	≤36.00	PASS
11B	Ant2	2462	1Mbps	14.68	≤30.00	18.88	≤36.00	PASS
11G	Ant1	2412	6Mbps	14.71	≤30.00	19.11	≤36.00	PASS
11G	Ant2	2412	6Mbps	14.86	≤30.00	19.06	≤36.00	PASS
11G	Ant1	2437	6Mbps	14.89	≤30.00	19.29	≤36.00	PASS
11G	Ant2	2437	6Mbps	15.37	≤30.00	19.57	≤36.00	PASS
11G	Ant1	2462	6Mbps	14.76	≤30.00	19.16	≤36.00	PASS
11G	Ant2	2462	6Mbps	16.15	≤30.00	20.35	≤36.00	PASS
11N20MIMO	Ant1	2412	MCS0	12.11	≤30.00	16.51	≤36.00	PASS
11N20MIMO	Ant2	2412	MCS0	12.95	≤30.00	17.15	≤36.00	PASS
11N20MIMO	total	2412	MCS0	15.56	≤28.70	22.86	≤36.00	PASS
11N20MIMO	Ant1	2437	MCS0	11.78	≤30.00	16.18	≤36.00	PASS
11N20MIMO	Ant2	2437	MCS0	12.83	≤30.00	17.03	≤36.00	PASS
11N20MIMO	total	2437	MCS0	15.35	≤28.70	22.65	≤36.00	PASS
11N20MIMO	Ant1	2462	MCS0	11.75	≤30.00	16.15	≤36.00	PASS
11N20MIMO	Ant2	2462	MCS0	13.02	≤30.00	17.22	≤36.00	PASS
11N20MIMO	total	2462	MCS0	15.44	≤28.70	22.74	≤36.00	PASS
11N20SISO	Ant1	2412	MCS0	14.40	≤30.00	18.80	≤36.00	PASS
11N20SISO	Ant2	2412	MCS0	15.29	≤30.00	19.49	≤36.00	PASS
11N20SISO	Ant1	2437	MCS0	14.31	≤30.00	18.71	≤36.00	PASS
11N20SISO	Ant2	2437	MCS0	15.60	≤30.00	19.80	≤36.00	PASS
11N20SISO	Ant1	2462	MCS0	14.78	≤30.00	19.18	≤36.00	PASS
11N20SISO	Ant2	2462	MCS0	16.39	≤30.00	20.59	≤36.00	PASS
11N40MIMO	Ant1	2422	MCS0	11.92	≤30.00	16.32	≤36.00	PASS
11N40MIMO	Ant2	2422	MCS0	12.72	≤30.00	16.92	≤36.00	PASS
11N40MIMO	total	2422	MCS0	15.35	≤28.70	22.65	≤36.00	PASS
11N40MIMO	Ant1	2437	MCS0	12.05	≤30.00	16.45	≤36.00	PASS
11N40MIMO	Ant2	2437	MCS0	12.84	≤30.00	17.04	≤36.00	PASS
11N40MIMO	total	2437	MCS0	15.47	≤28.70	22.77	≤36.00	PASS
11N40MIMO	Ant1	2452	MCS0	12.16	≤30.00	16.56	≤36.00	PASS
11N40MIMO	Ant2	2452	MCS0	12.69	≤30.00	16.89	≤36.00	PASS
11N40MIMO	total	2452	MCS0	15.44	≤28.70	22.74	≤36.00	PASS
11N40SISO	Ant1	2422	MCS0	14.91	≤30.00	19.31	≤36.00	PASS

11N40SISO	Ant2	2422	MCS0	15.56	≤30.00	19.76	≤36.00	PASS
11N40SISO	Ant1	2437	MCS0	14.88	≤30.00	19.28	≤36.00	PASS
11N40SISO	Ant2	2437	MCS0	16.30	≤30.00	20.50	≤36.00	PASS
11N40SISO	Ant1	2452	MCS0	14.71	≤30.00	19.11	≤36.00	PASS
11N40SISO	Ant2	2452	MCS0	16.12	≤30.00	20.32	≤36.00	PASS

Note:

ANT gain:	ANT1:4.4dBi, ANT2:4.2dBi
Directional gain:	$10\log [(10^{ANT1/20} + 10^{ANT2/20})^2/2]$ dBi=7.3dBi

Test Graphs Peak



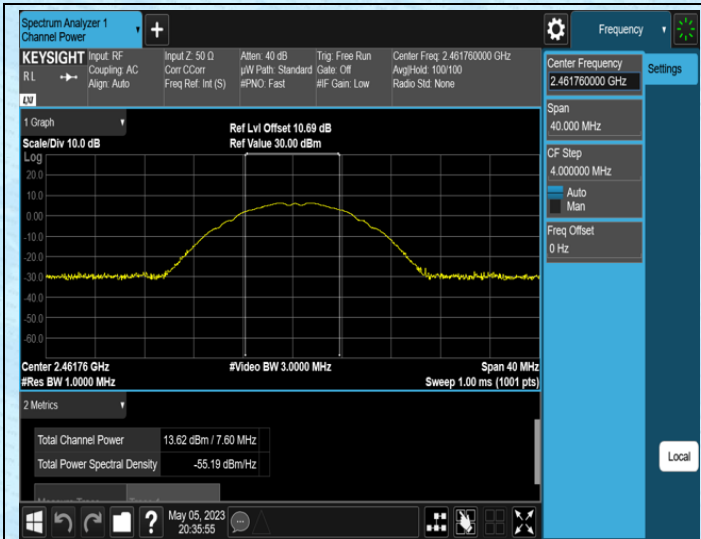
11B-Ant1-2412

11B-Ant2-2412

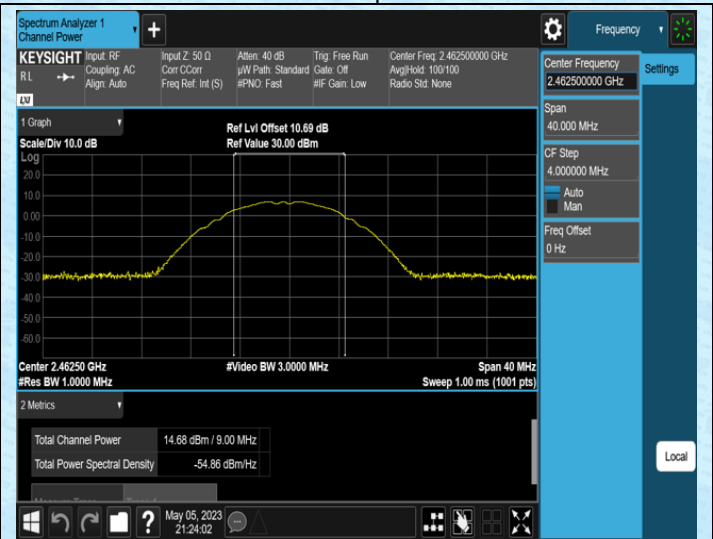


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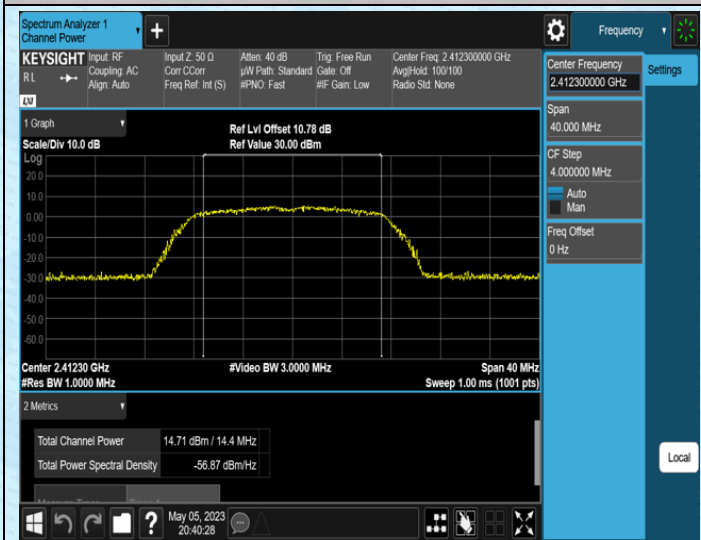
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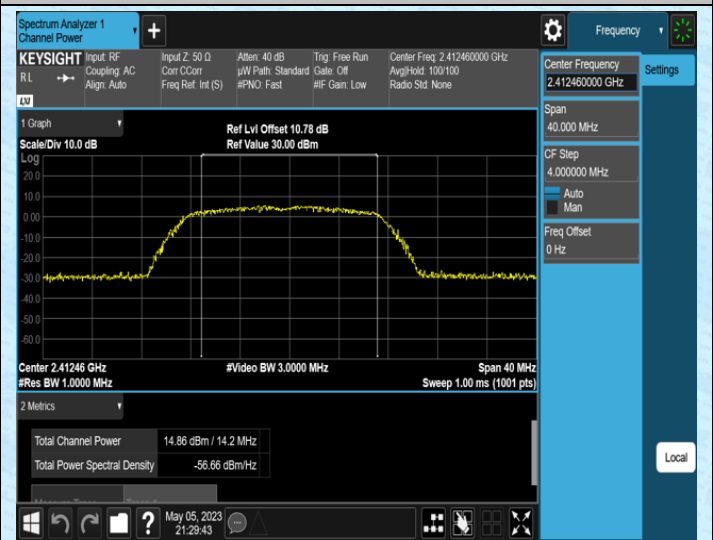
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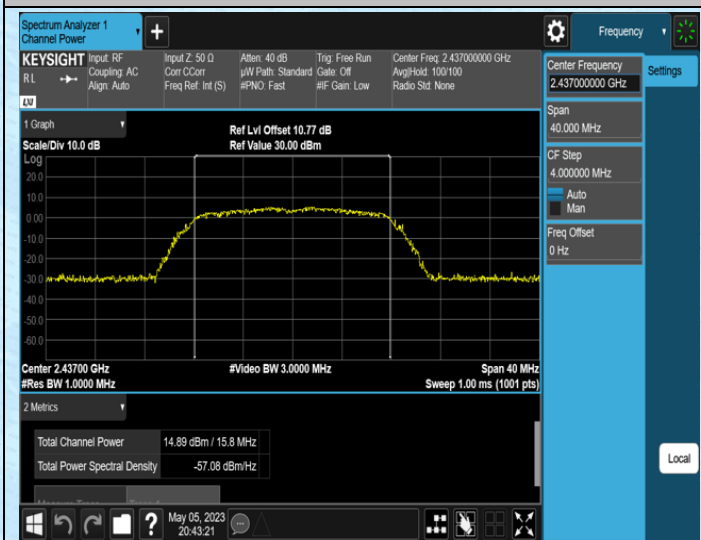
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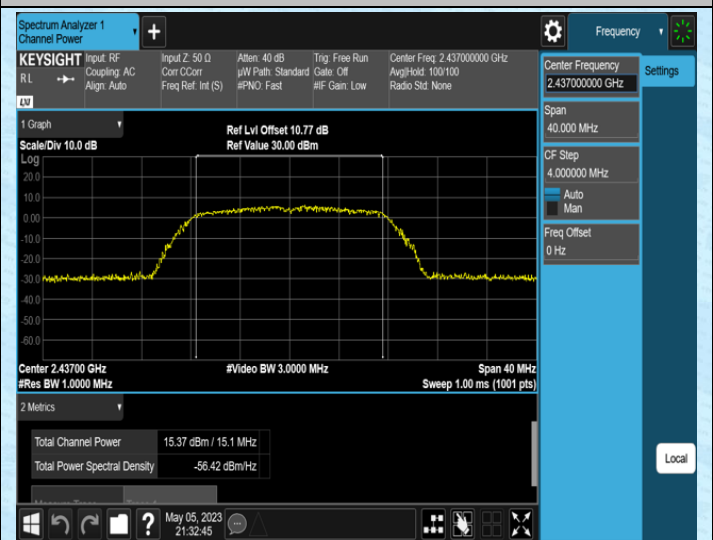
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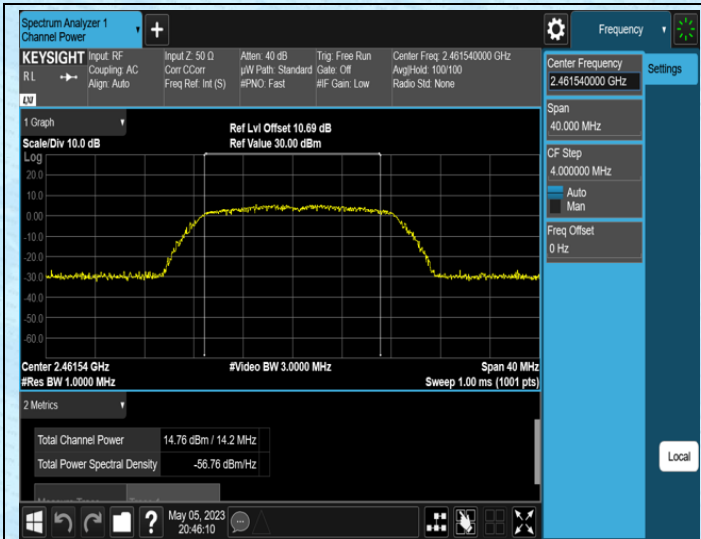
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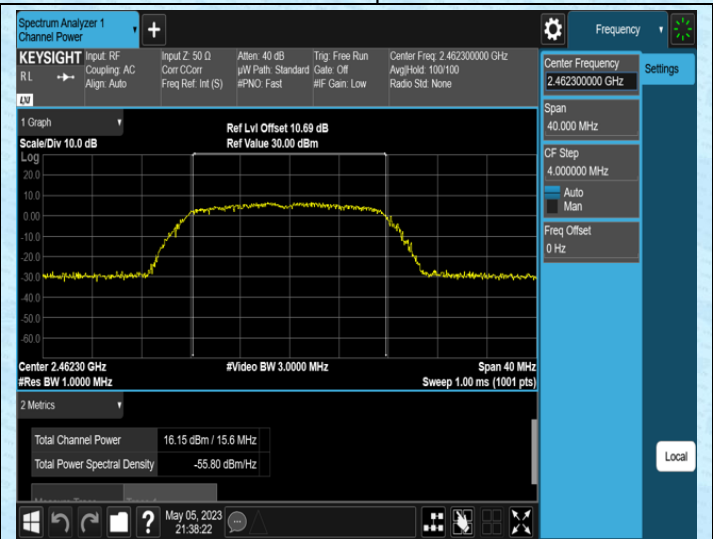
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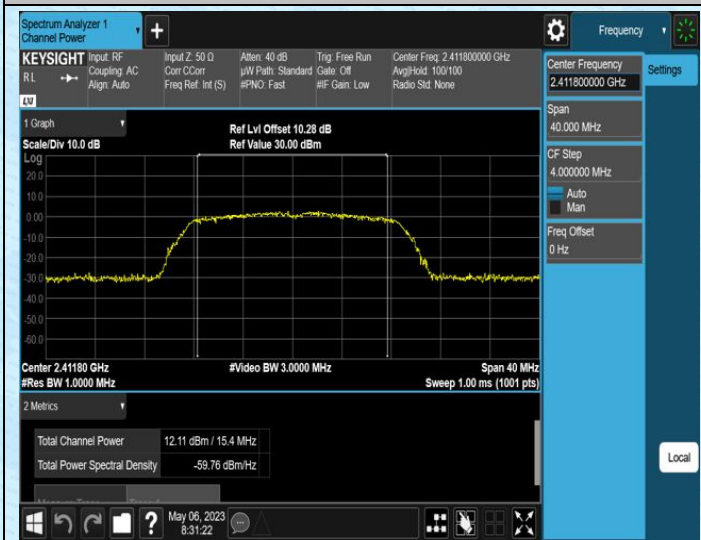
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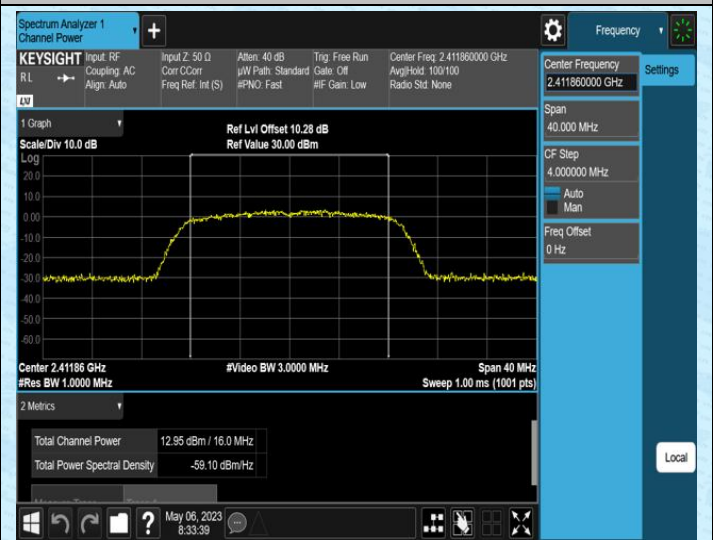
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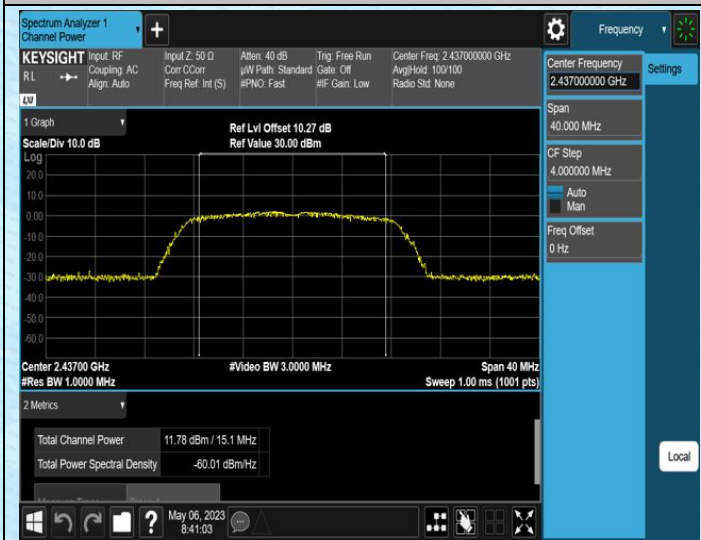
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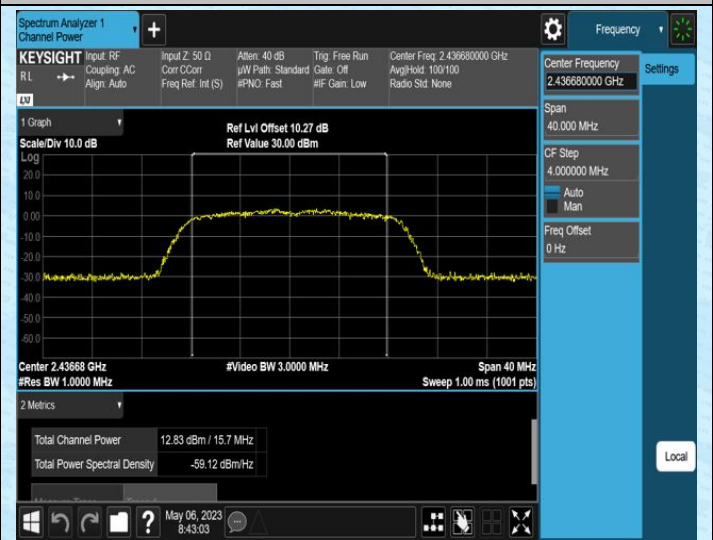
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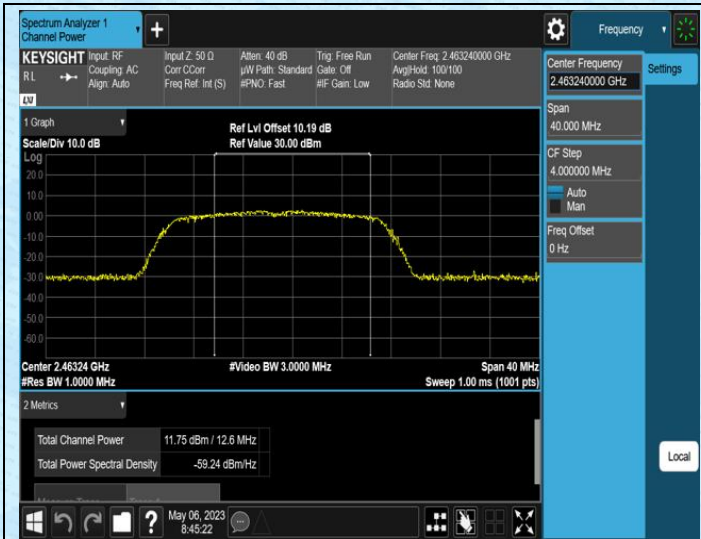
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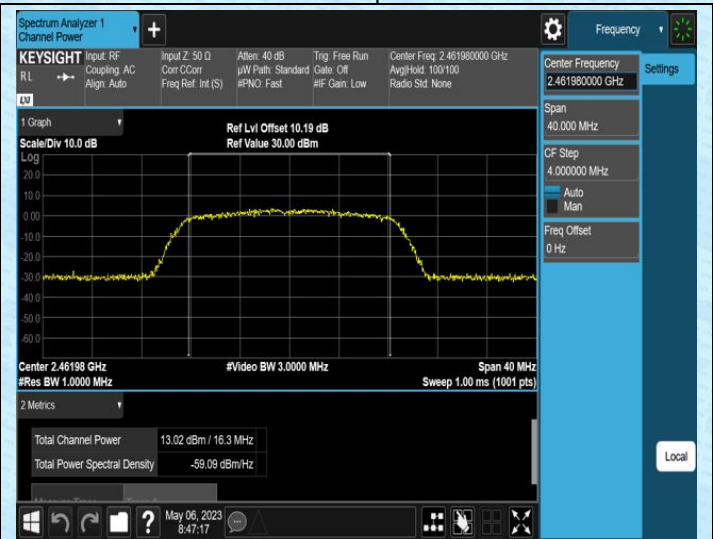
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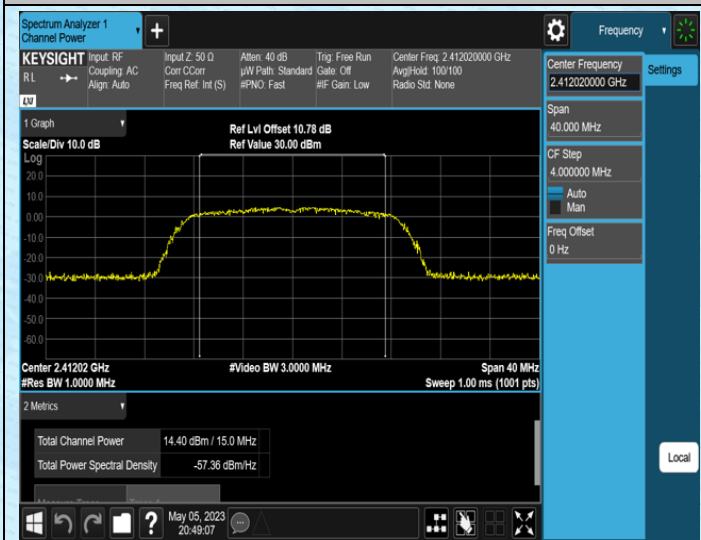
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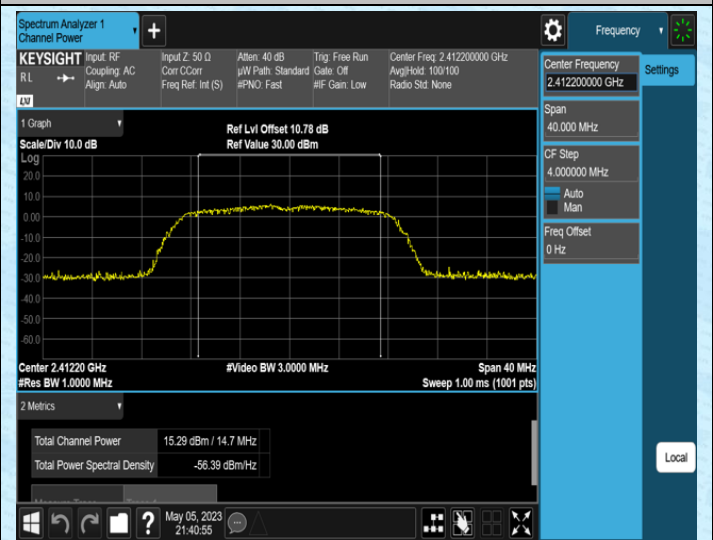
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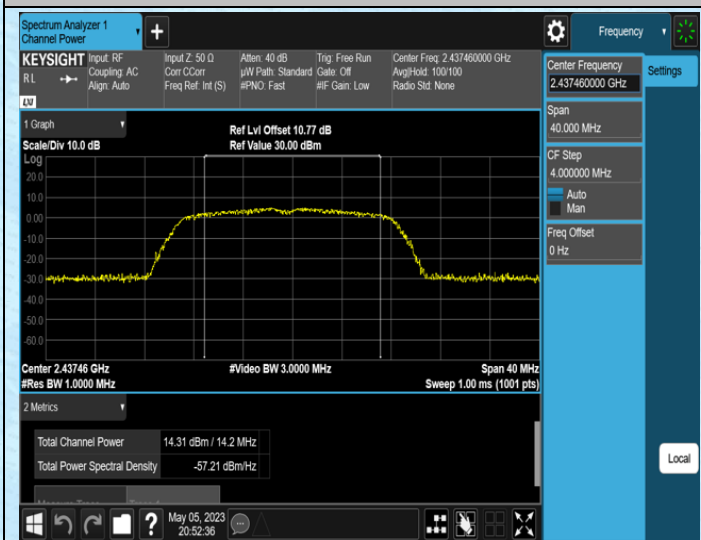
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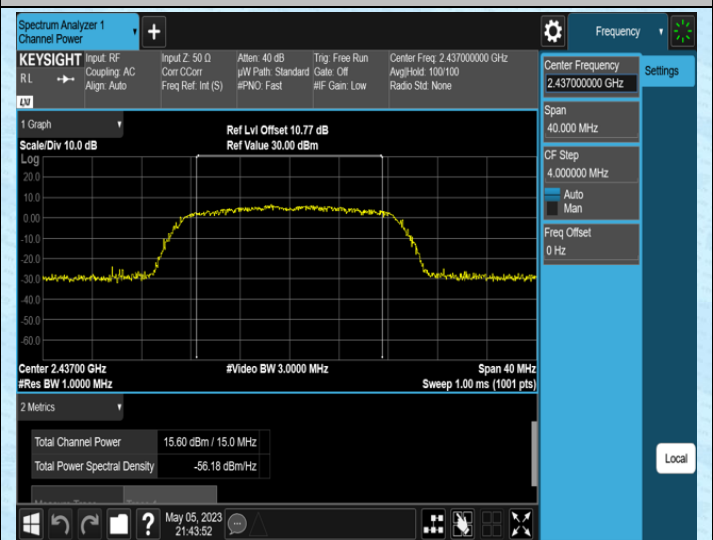
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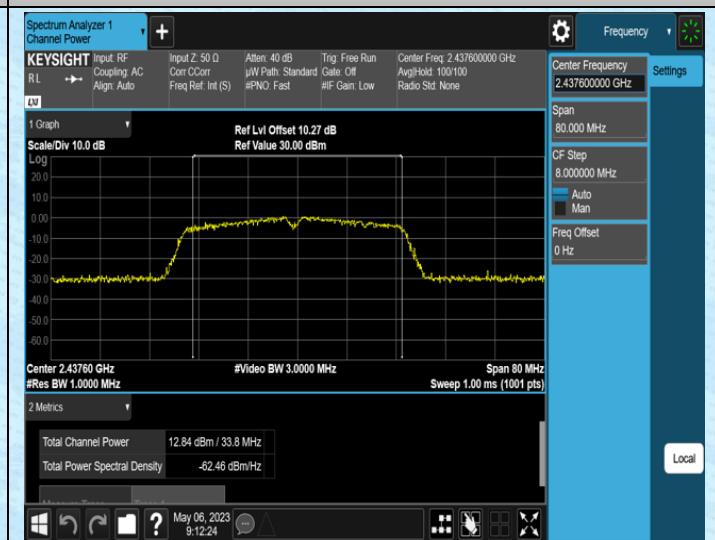
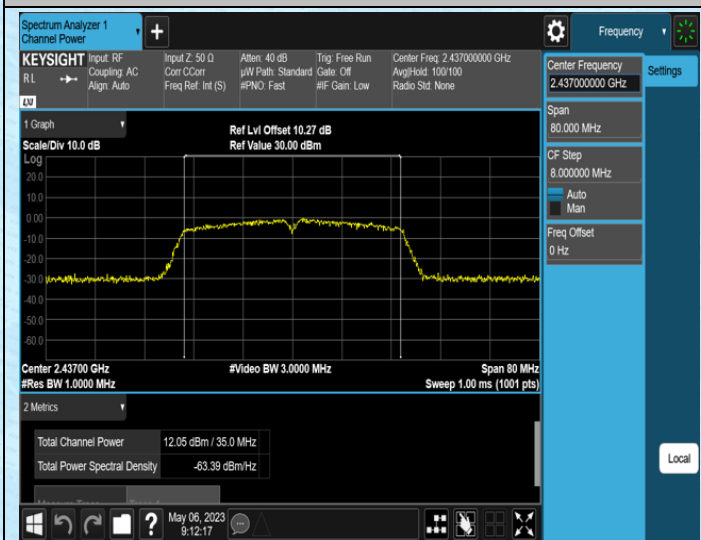
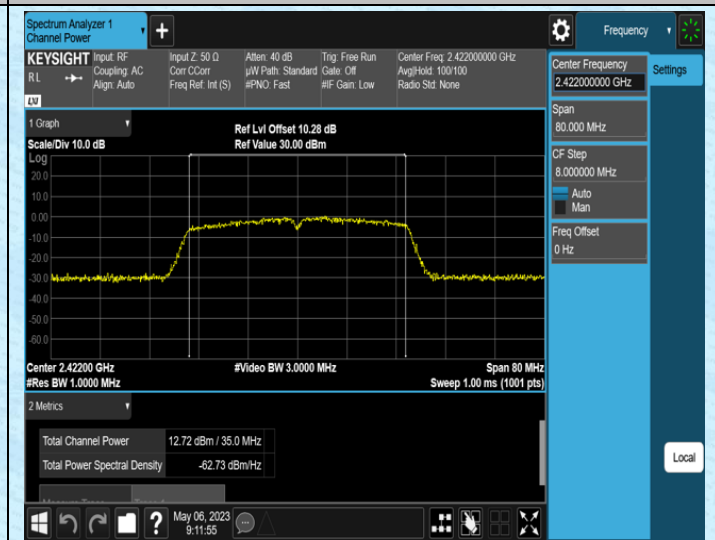
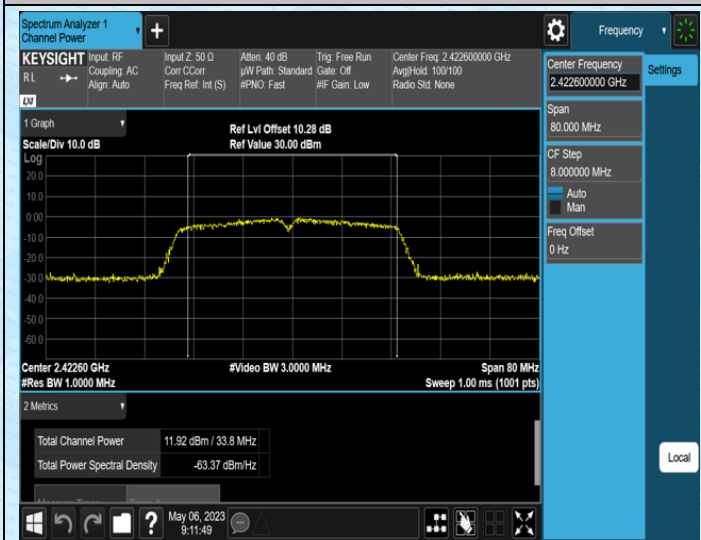
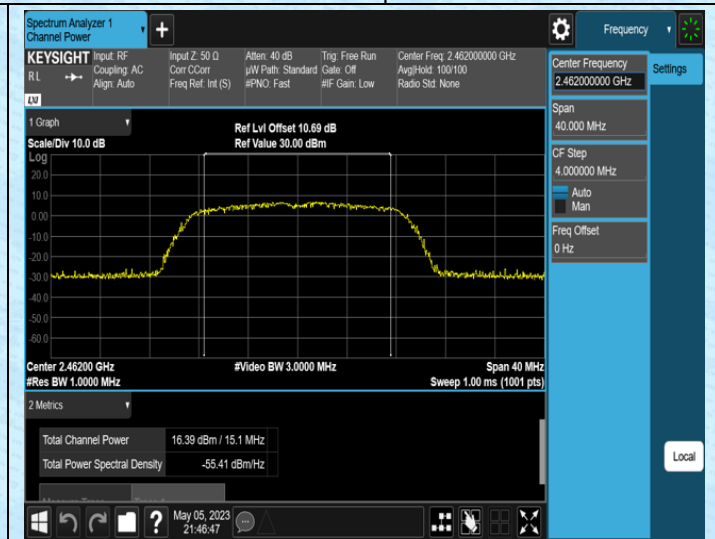
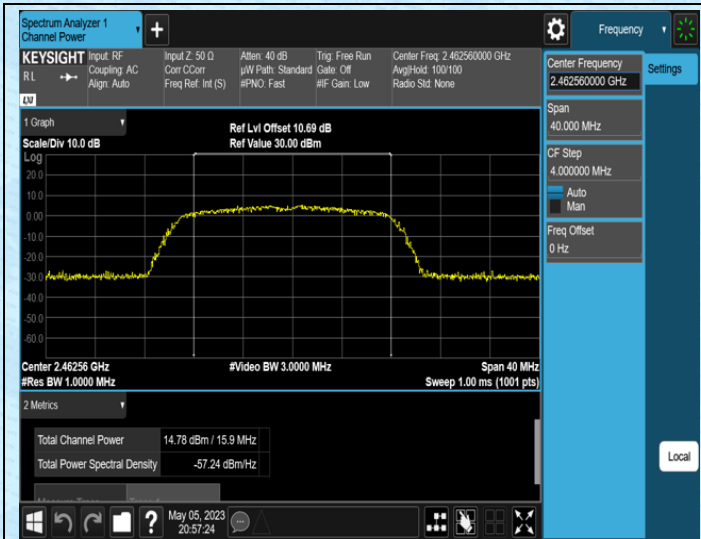
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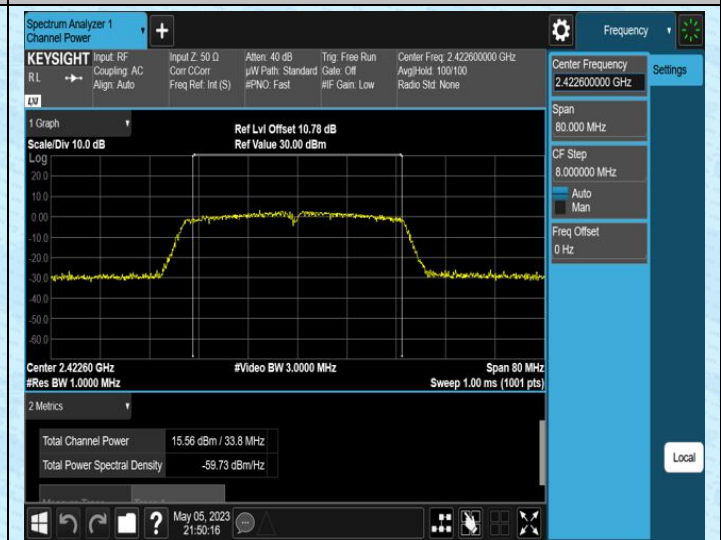
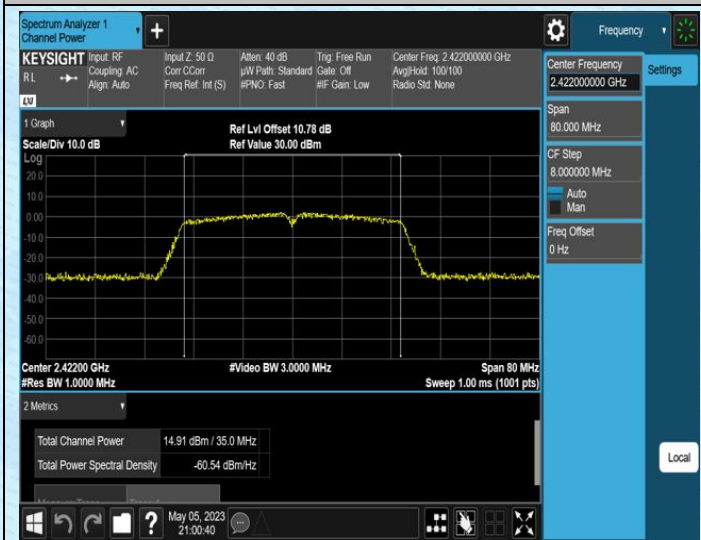
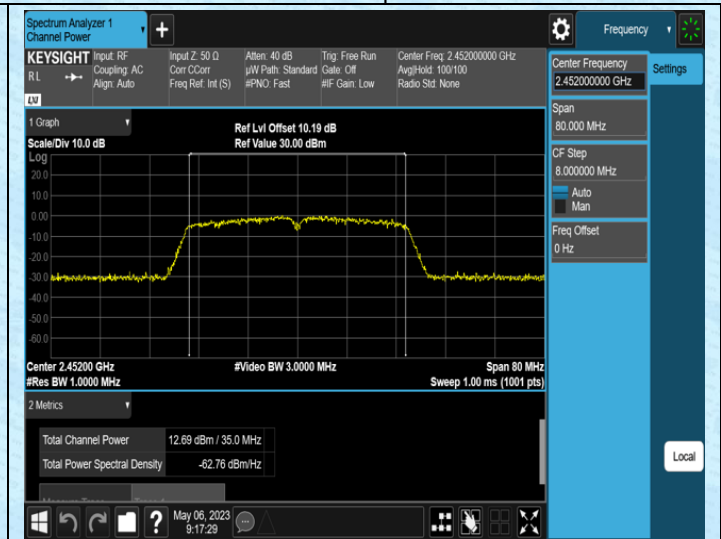
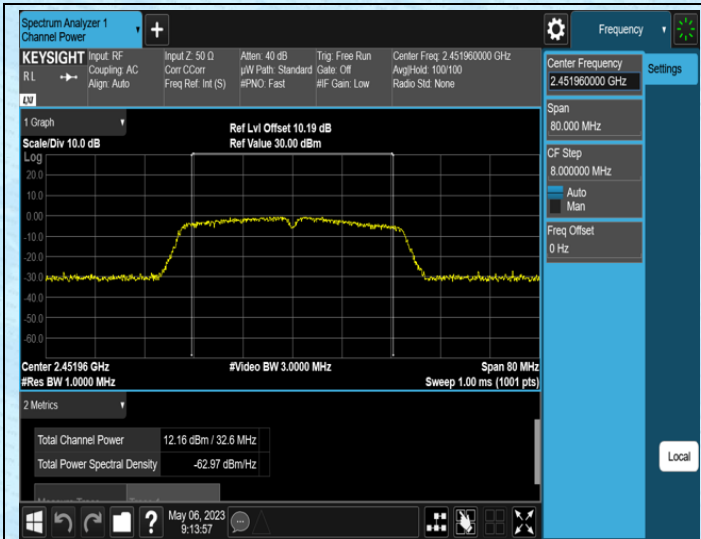


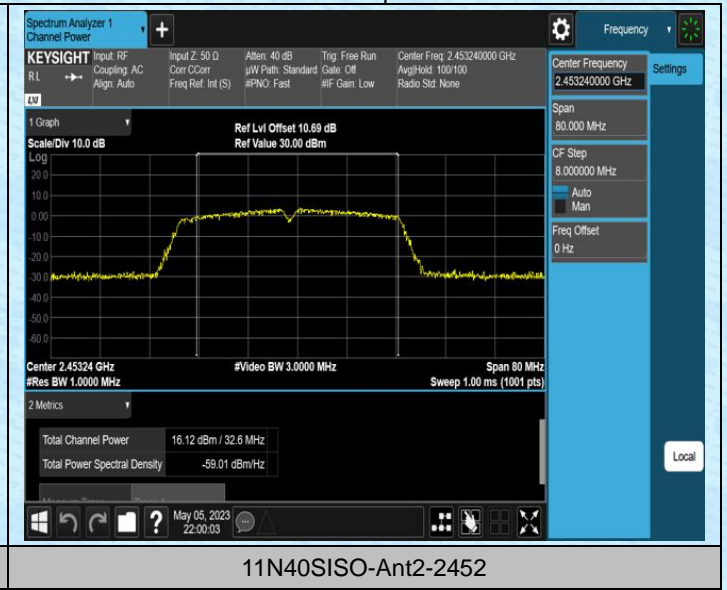
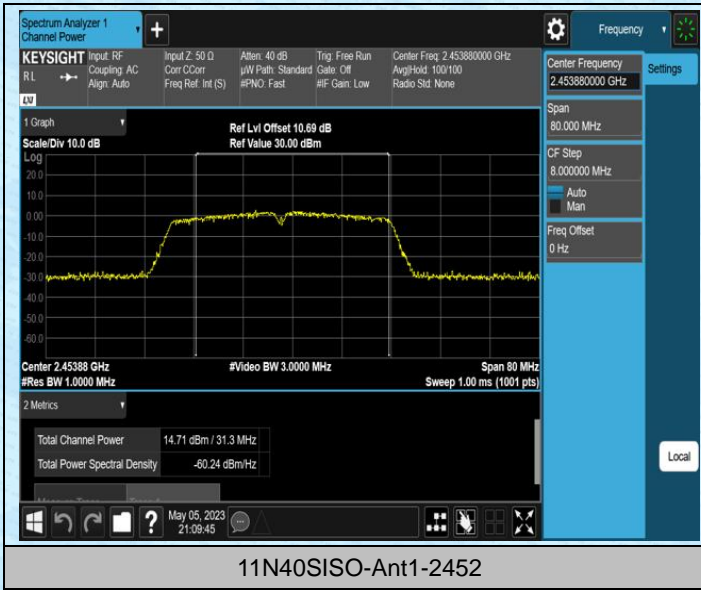
11N20SISO-Ant1-2437



11N20SISO-Ant2-2437







AppendixD: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Rate	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	1Mbps	-10.28	≤8.00	PASS
11B	Ant2	2412	1Mbps	-11.02	≤8.00	PASS
11B	Ant1	2437	1Mbps	-10.43	≤8.00	PASS
11B	Ant2	2437	1Mbps	-9.67	≤8.00	PASS
11B	Ant1	2462	1Mbps	-10.47	≤8.00	PASS
11B	Ant2	2462	1Mbps	-9.74	≤8.00	PASS
11G	Ant1	2412	6Mbps	-15.86	≤8.00	PASS
11G	Ant2	2412	6Mbps	-14.58	≤8.00	PASS
11G	Ant1	2437	6Mbps	-15.38	≤8.00	PASS
11G	Ant2	2437	6Mbps	-15.72	≤8.00	PASS
11G	Ant1	2462	6Mbps	-15.92	≤8.00	PASS
11G	Ant2	2462	6Mbps	-13.81	≤8.00	PASS
11N20MIMO	Ant1	2412	MCS0	-18.3	≤8.00	PASS
11N20MIMO	Ant2	2412	MCS0	-18.24	≤8.00	PASS
11N20MIMO	total	2412	MCS0	-15.26	≤6.70	PASS
11N20MIMO	Ant1	2437	MCS0	-18.32	≤8.00	PASS
11N20MIMO	Ant2	2437	MCS0	-17.44	≤8.00	PASS
11N20MIMO	total	2437	MCS0	-14.85	≤6.70	PASS
11N20MIMO	Ant1	2462	MCS0	-17.9	≤8.00	PASS
11N20MIMO	Ant2	2462	MCS0	-18.09	≤8.00	PASS
11N20MIMO	total	2462	MCS0	-14.98	≤6.70	PASS
11N20SISO	Ant1	2412	MCS0	-15.6	≤8.00	PASS
11N20SISO	Ant2	2412	MCS0	-15.43	≤8.00	PASS
11N20SISO	Ant1	2437	MCS0	-16.82	≤8.00	PASS
11N20SISO	Ant2	2437	MCS0	-14.49	≤8.00	PASS
11N20SISO	Ant1	2462	MCS0	-16.06	≤8.00	PASS
11N20SISO	Ant2	2462	MCS0	-13.29	≤8.00	PASS
11N40MIMO	Ant1	2422	MCS0	-21.31	≤8.00	PASS
11N40MIMO	Ant2	2422	MCS0	-19.28	≤8.00	PASS
11N40MIMO	total	2422	MCS0	-17.17	≤6.70	PASS
11N40MIMO	Ant1	2437	MCS0	-21.2	≤8.00	PASS
11N40MIMO	Ant2	2437	MCS0	-20.88	≤8.00	PASS
11N40MIMO	total	2437	MCS0	-18.03	≤6.70	PASS
11N40MIMO	Ant1	2452	MCS0	-21.32	≤8.00	PASS
11N40MIMO	Ant2	2452	MCS0	-21.49	≤8.00	PASS
11N40MIMO	total	2452	MCS0	-18.39	≤6.70	PASS
11N40SISO	Ant1	2422	MCS0	-19.21	≤8.00	PASS
11N40SISO	Ant2	2422	MCS0	-17.51	≤8.00	PASS