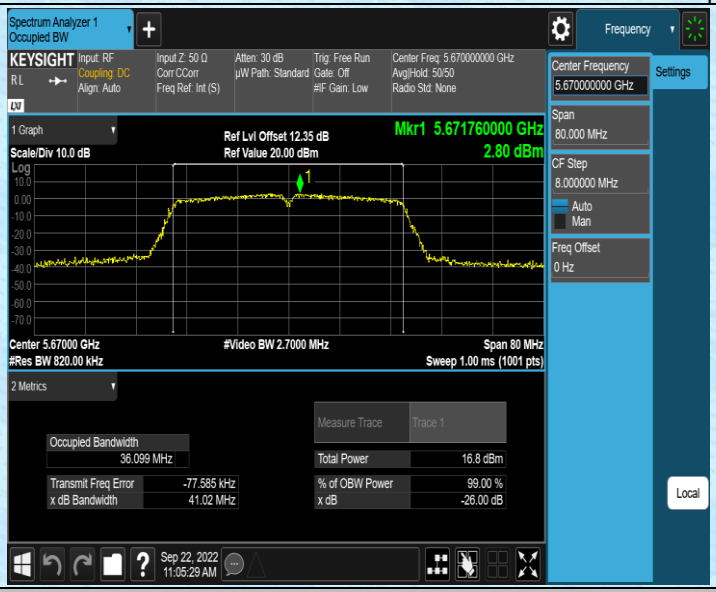
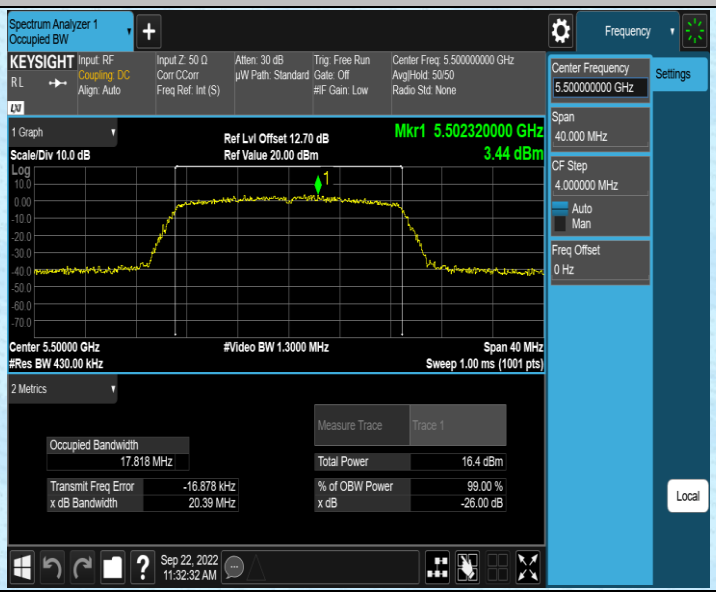
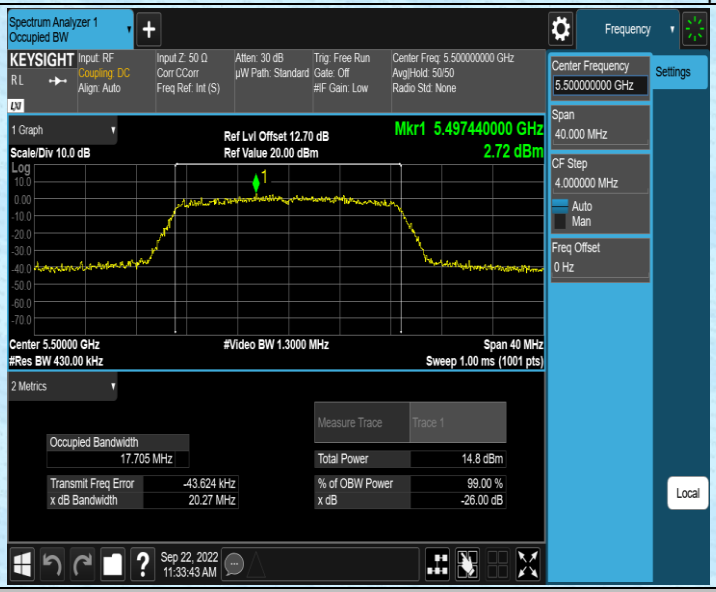


11N40MIMO_Ant1_5670

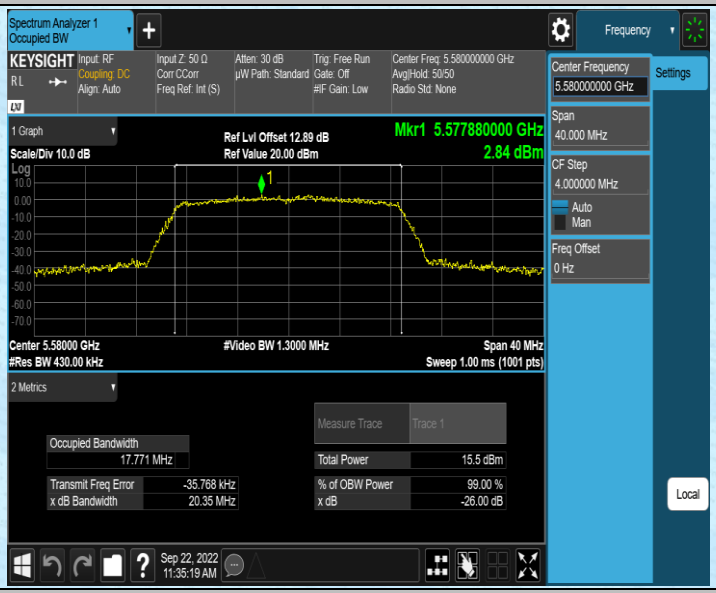
11N40MIMO_Ant2_5670



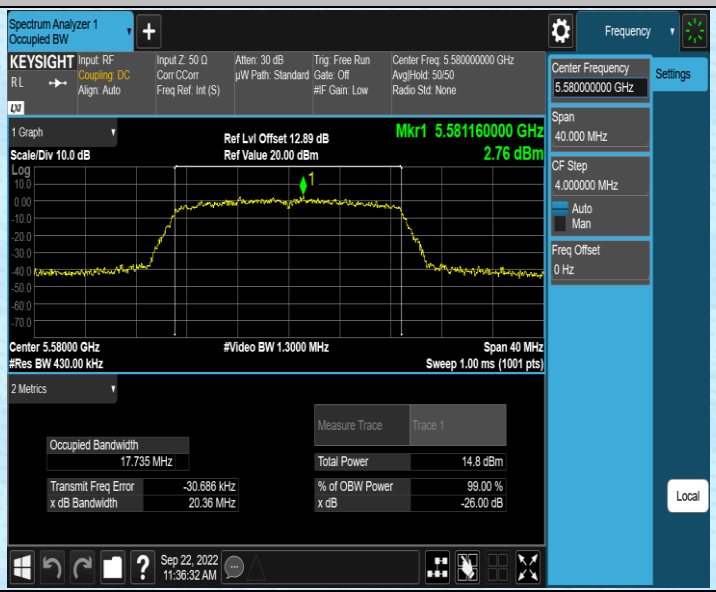
11AC20MIMO_Ant1_5500



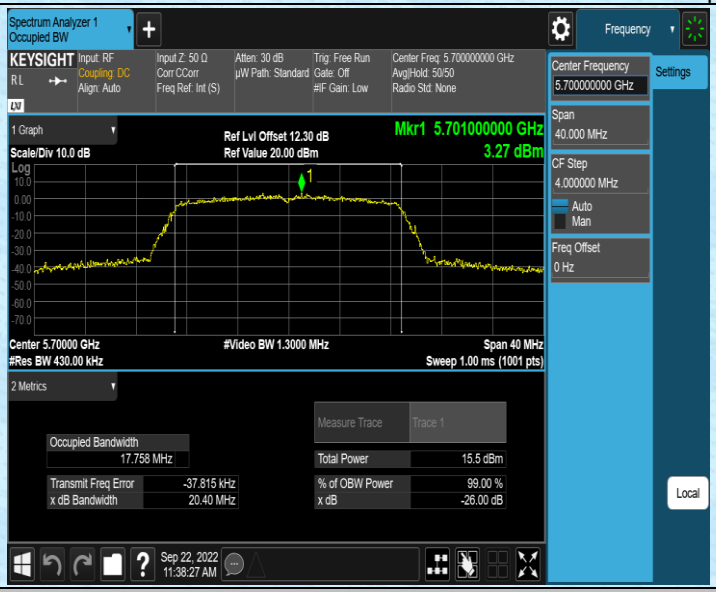
11AC20MIMO_Ant2_5500



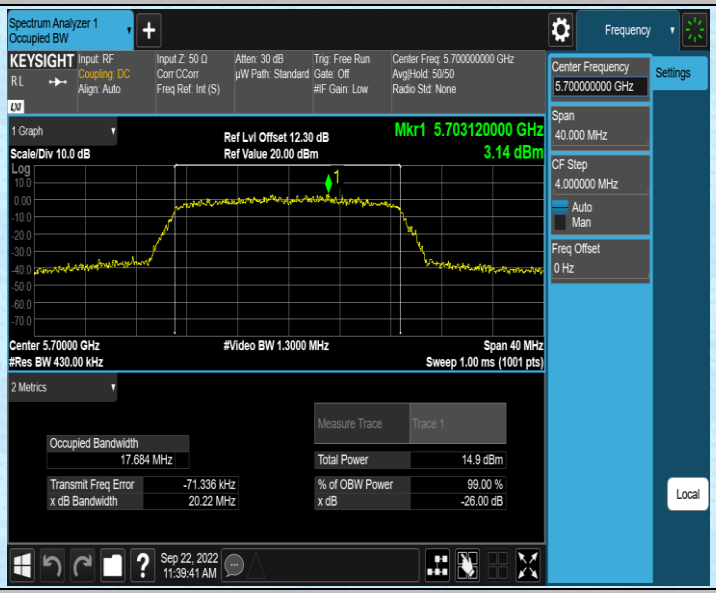
11AC20MIMO_Ant1_5580



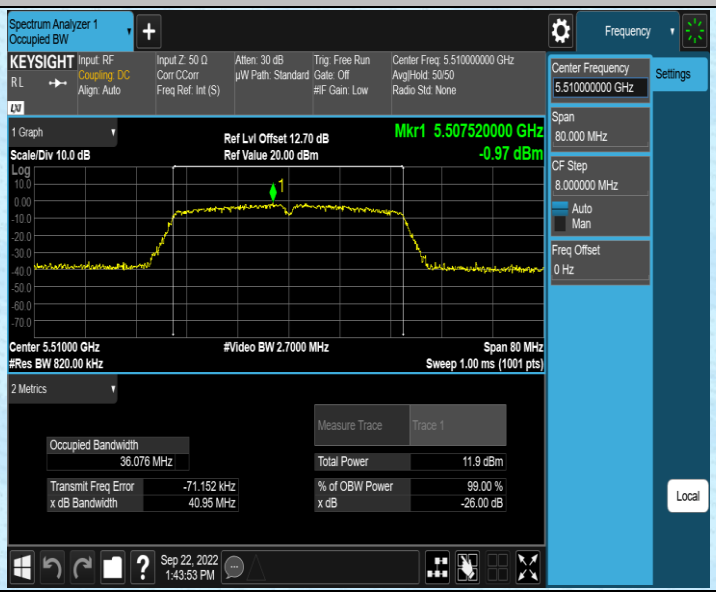
11AC20MIMO_Ant2_5580



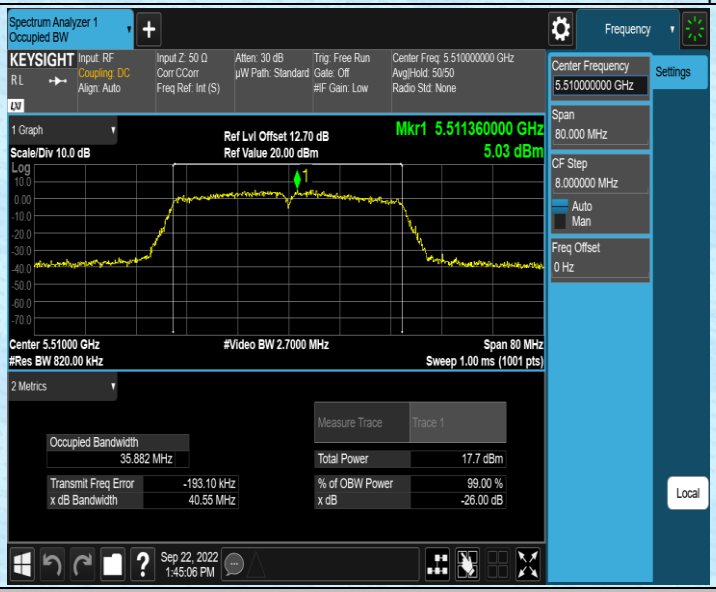
11AC20MIMO_Ant1_5700



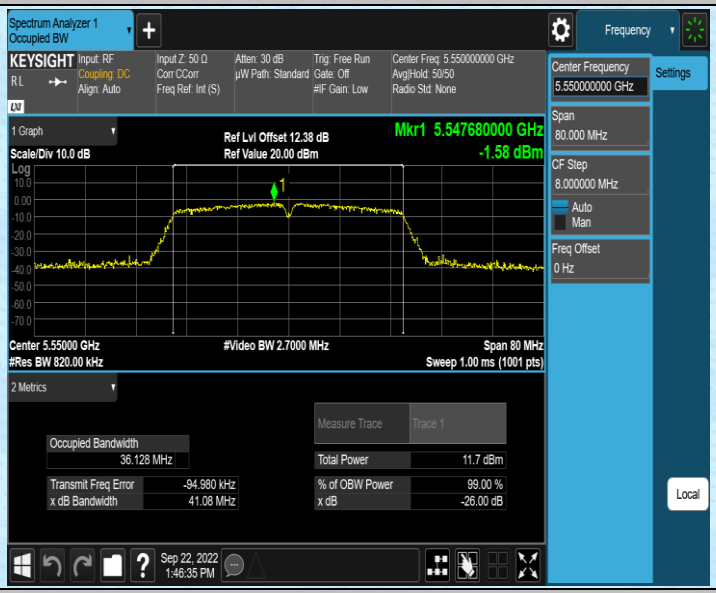
11AC20MIMO_Ant2_5700



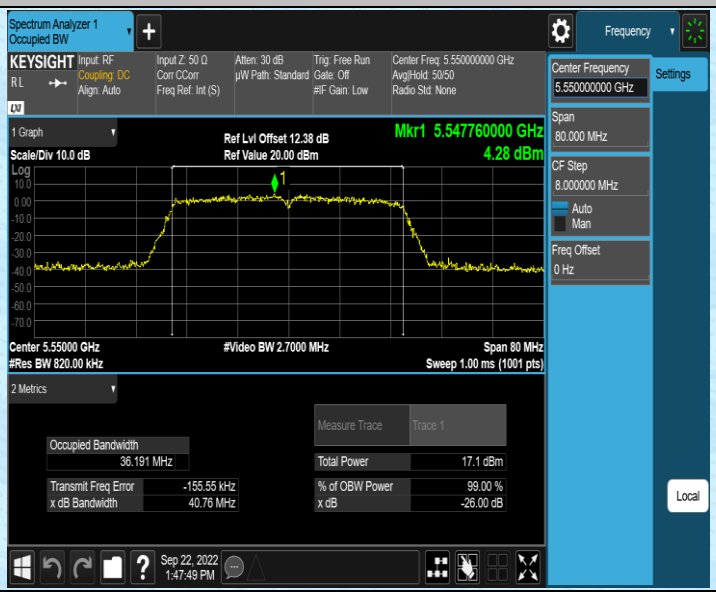
11AC40MIMO_Ant1_5510



11AC40MIMO_Ant2_5510

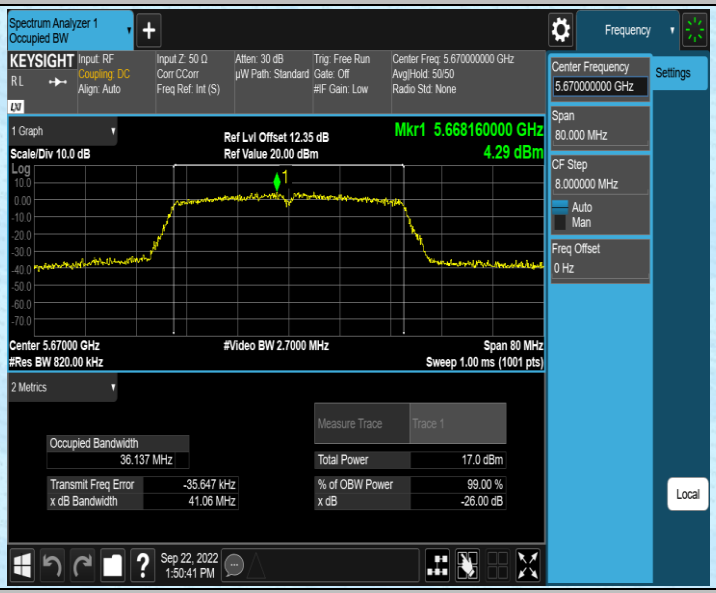


11AC40MIMO_Ant1_5550

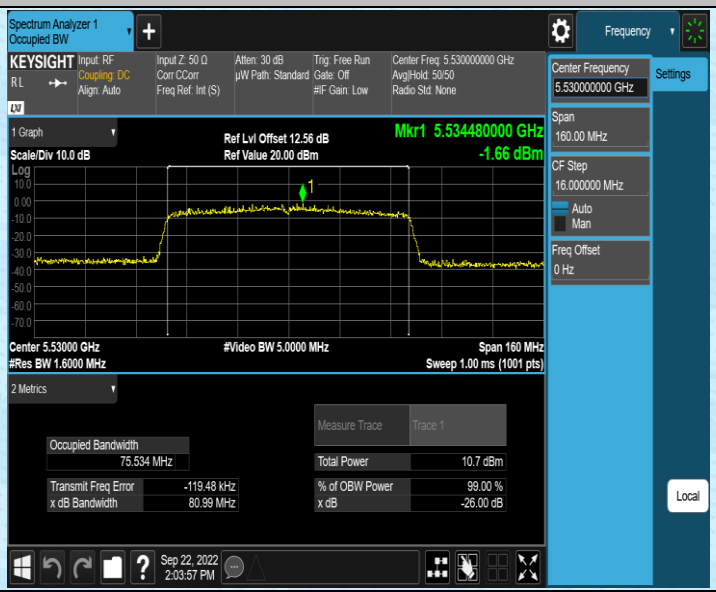


11AC40MIMO_Ant2_5550

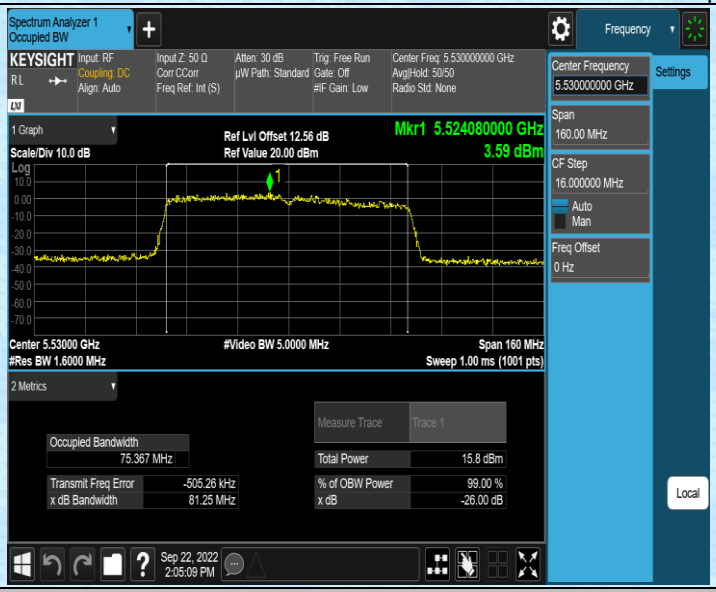
11AC40MIMO_Ant1_5670



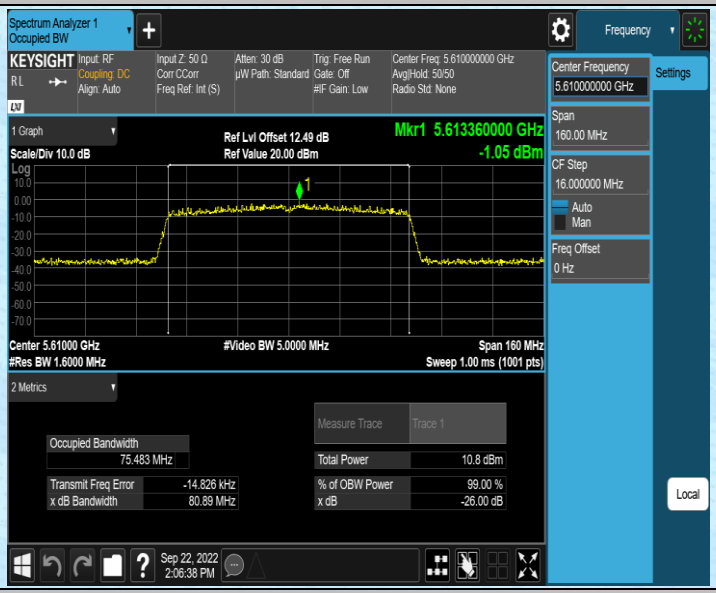
11AC40MIMO_Ant2_5670



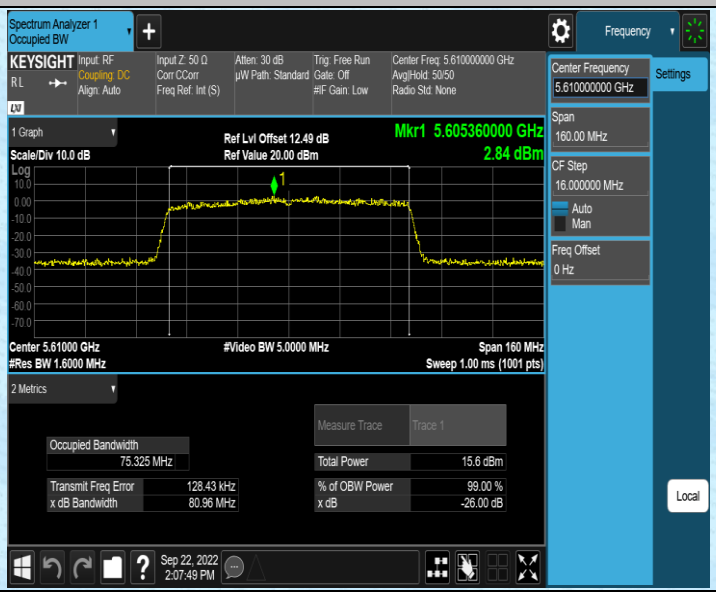
11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610

4.Maximum conducted output power

Test Result

TestMode	Antenna	Fre.[MHz]	Rate	DC[%]	Power [dBm]	Gain [dBi]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5500	6Mbps	96.53	13.37	5.53	13.52	≤23.98	PASS
	Ant2	5500	6Mbps	97.20	12.46	7.55	12.58	≤22.43	PASS
	Ant1	5580	6Mbps	96.53	12.43	5.53	12.58	≤23.98	PASS
	Ant2	5580	6Mbps	96.50	12.30	7.55	12.45	≤22.43	PASS
	Ant1	5700	6Mbps	96.53	12.44	5.53	12.59	≤23.98	PASS
	Ant2	5700	6Mbps	96.53	12.60	7.55	12.75	≤22.43	PASS
11N20SISO	Ant1	5500	MCS0	96.30	12.39	5.53	12.55	≤23.98	PASS
	Ant2	5500	MCS0	97.01	12.36	7.55	12.49	≤22.43	PASS
	Ant1	5580	MCS0	96.30	12.23	5.53	12.39	≤23.98	PASS
	Ant2	5580	MCS0	96.30	12.36	7.55	12.52	≤22.43	PASS
	Ant1	5700	MCS0	96.30	13.91	5.53	14.07	≤23.98	PASS
	Ant2	5700	MCS0	96.30	12.57	7.55	12.73	≤22.43	PASS
11N40SISO	Ant1	5510	MCS0	94.20	13.91	5.53	14.17	≤23.98	PASS
	Ant2	5510	MCS0	94.20	12.39	7.55	12.65	≤22.43	PASS
	Ant1	5550	MCS0	94.20	13.14	5.53	13.40	≤23.98	PASS
	Ant2	5550	MCS0	92.75	12.23	7.55	12.56	≤22.43	PASS
	Ant1	5670	MCS0	94.20	13.65	5.53	13.91	≤23.98	PASS
	Ant2	5670	MCS0	94.20	12.47	7.55	12.73	≤22.43	PASS
11AC20SISO	Ant1	5500	MCS0	97.04	13.95	5.53	14.08	≤23.98	PASS
	Ant2	5500	MCS0	96.32	12.44	7.55	12.60	≤22.43	PASS
	Ant1	5580	MCS0	97.04	12.98	5.53	13.11	≤23.98	PASS
	Ant2	5580	MCS0	96.32	12.39	7.55	12.55	≤22.43	PASS
	Ant1	5700	MCS0	96.32	13.88	5.53	14.04	≤23.98	PASS
	Ant2	5700	MCS0	96.32	12.58	7.55	12.74	≤22.43	PASS
11AC40SISO	Ant1	5510	MCS0	94.20	13.90	5.53	14.16	≤23.98	PASS
	Ant2	5510	MCS0	94.20	12.34	7.55	12.60	≤22.43	PASS
	Ant1	5550	MCS0	92.86	13.14	5.53	13.46	≤23.98	PASS
	Ant2	5550	MCS0	94.29	12.10	7.55	12.36	≤22.43	PASS
	Ant1	5670	MCS0	92.86	13.88	5.53	14.20	≤23.98	PASS
	Ant2	5670	MCS0	94.29	12.58	7.55	12.84	≤22.43	PASS
11AC80SISO	Ant1	5530	MCS0	86.49	13.62	5.53	14.25	≤23.98	PASS
	Ant2	5530	MCS0	86.49	12.32	7.55	12.95	≤22.43	PASS
	Ant1	5610	MCS0	86.49	13.25	5.53	13.88	≤23.98	PASS
	Ant2	5610	MCS0	89.19	12.35	7.55	12.85	≤22.43	PASS
11N20MIMO	Ant1	5500	MCS0	96.3	11.02	5.53	11.18	≤23.98	PASS
	Ant2	5500	MCS0	96.27	9.39	7.55	9.56	≤22.43	PASS
	total	5500	MCS0	/	/	9.61	13.46	≤20.37	PASS
	Ant1	5580	MCS0	96.3	9.71	5.53	9.87	≤23.98	PASS
	Ant2	5580	MCS0	97.01	8.88	7.55	9.01	≤22.43	PASS

	total	5580	MCS0	/	/	9.61	12.47	≤20.37	PASS
	Ant1	5700	MCS0	96.3	10.07	5.53	10.23	≤23.98	PASS
	Ant2	5700	MCS0	97.01	8.99	7.55	9.12	≤22.43	PASS
	total	5700	MCS0	/	/	9.61	12.72	≤20.37	PASS
11N40MIMO	Ant1	5510	MCS0	94.2	10.52	5.53	10.78	≤23.98	PASS
	Ant2	5510	MCS0	92.75	9.04	7.55	9.37	≤22.43	PASS
	total	5510	MCS0	/	/	9.61	13.14	≤20.37	PASS
	Ant1	5550	MCS0	92.86	9.75	5.53	10.07	≤23.98	PASS
	Ant2	5550	MCS0	92.86	8.63	7.55	8.95	≤22.43	PASS
	total	5550	MCS0	/	/	9.61	18.01	≤20.37	PASS
	Ant1	5670	MCS0	94.2	10.04	5.53	10.30	≤23.98	PASS
	Ant2	5670	MCS0	94.2	9.05	7.55	9.31	≤22.43	PASS
	total	5670	MCS0	/	/	9.61	12.84	≤20.37	PASS
11AC20MIMO	Ant1	5500	MCS0	93.15	10.76	5.53	11.07	≤23.98	PASS
	Ant2	5500	MCS0	93.15	8.88	7.55	9.19	≤22.43	PASS
	total	5500	MCS0	/	/	9.61	13.24	≤20.37	PASS
	Ant1	5580	MCS0	94.44	9.82	5.53	10.07	≤23.98	PASS
	Ant2	5580	MCS0	94.44	8.87	7.55	9.12	≤22.43	PASS
	total	5580	MCS0	/	/	9.61	12.65	≤20.37	PASS
	Ant1	5700	MCS0	93.15	9.95	5.53	10.26	≤23.98	PASS
	Ant2	5700	MCS0	97.04	8.69	7.55	8.82	≤22.43	PASS
	total	5700	MCS0	/	/	9.61	12.61	≤20.37	PASS
11AC40MIMO	Ant1	5510	MCS0	89.74	5.22	5.53	5.69	≤23.98	PASS
	Ant2	5510	MCS0	87.50	10.83	7.55	11.41	≤22.43	PASS
	total	5510	MCS0	/	/	9.61	12.44	≤20.37	PASS
	Ant1	5550	MCS0	87.50	5.15	5.53	5.73	≤23.98	PASS
	Ant2	5550	MCS0	87.50	10.10	7.55	10.68	≤22.43	PASS
	total	5550	MCS0	/	/	9.61	11.88	≤20.37	PASS
	Ant1	5670	MCS0	87.50	5.56	5.53	6.14	≤23.98	PASS
	Ant2	5670	MCS0	89.74	10.06	7.55	10.53	≤22.43	PASS
	total	5670	MCS0	/	/	9.61	11.88	≤20.37	PASS
11AC80MIMO	Ant1	5530	MCS0	82.61	3.55	5.53	4.38	≤23.98	PASS
	Ant2	5530	MCS0	82.61	8.37	7.55	9.20	≤22.43	PASS
	total	5530	MCS0	/	/	9.61	10.44	≤20.37	PASS
	Ant1	5610	MCS0	82.61	3.46	5.53	4.29	≤23.98	PASS
	Ant2	5610	MCS0	82.61	8.12	7.55	8.95	≤22.43	PASS
	total	5610	MCS0	/	/	9.61	10.23	≤20.37	PASS

Note:

1.The Duty Cycle Factor has been compensated in the Test Result using the formula below:

Result=Power+10log(1/x),Power is measured value in dBm,and x is Duty Cycle in %.

2.The multi-antenna gain has been obtained from the gain conversion of antenna 1 and antenna 2.

3.It is explained in Part 15.407 that when the antenna gain is less than 6dBi, the Maximum conducted output power limit remains unchanged; when the antenna gain is greater than 6dBi, the greater part is subtracted from the Maximum conducted output power to obtain the final limit.

5.Maximum power spectral density

Test Result

TestMode	Antenna	Fre. [MHz]	Rate	DC Factor	PSD	Result	Limit (dBm/MHz)	Verdict
11A	Ant1	5500	6Mbps	0.15	3.45dBm/MHz	3.60dBm/MHz	≤11.00	PASS
	Ant2	5500	6Mbps	0.12	2.67dBm/MHz	2.79dBm/MHz	≤9.45	PASS
	Ant1	5580	6Mbps	0.15	2.63dBm/MHz	2.78dBm/MHz	≤11.00	PASS
	Ant2	5580	6Mbps	0.15	2.61dBm/MHz	2.76dBm/MHz	≤9.45	PASS
	Ant1	5700	6Mbps	0.15	2.47dBm/MHz	2.62dBm/MHz	≤11.00	PASS
	Ant2	5700	6Mbps	0.15	2.60dBm/MHz	2.75dBm/MHz	≤9.45	PASS
11N20SISO	Ant1	5500	MCS0	0.16	2.41dBm/MHz	2.57dBm/MHz	≤11.00	PASS
	Ant2	5500	MCS0	0.13	2.33dBm/MHz	2.46dBm/MHz	≤9.45	PASS
	Ant1	5580	MCS0	0.16	2.33dBm/MHz	2.49dBm/MHz	≤11.00	PASS
	Ant2	5580	MCS0	0.16	2.32dBm/MHz	2.48dBm/MHz	≤9.45	PASS
	Ant1	5700	MCS0	0.16	3.89dBm/MHz	4.05dBm/MHz	≤11.00	PASS
	Ant2	5700	MCS0	0.16	2.45dBm/MHz	2.61dBm/MHz	≤9.45	PASS
11N40SISO	Ant1	5510	MCS0	0.26	1.21dBm/MHz	1.47dBm/MHz	≤11.00	PASS
	Ant2	5510	MCS0	0.26	-0.85dBm/MHz	-0.59dBm/MHz	≤9.45	PASS
	Ant1	5550	MCS0	0.26	0.14dBm/MHz	0.40dBm/MHz	≤11.00	PASS
	Ant2	5550	MCS0	0.33	-0.85dBm/MHz	-0.52dBm/MHz	≤9.45	PASS
	Ant1	5670	MCS0	0.26	0.68dBm/MHz	0.94dBm/MHz	≤11.00	PASS
	Ant2	5670	MCS0	0.26	-0.58dBm/MHz	-0.32dBm/MHz	≤9.45	PASS
11AC20SISO	Ant1	5500	MCS0	0.13	3.95dBm/MHz	4.08dBm/MHz	≤11.00	PASS
	Ant2	5500	MCS0	0.16	2.56dBm/MHz	2.72dBm/MHz	≤9.45	PASS
	Ant1	5580	MCS0	0.13	2.8dBm/MHz	2.93dBm/MHz	≤11.00	PASS
	Ant2	5580	MCS0	0.16	2.34dBm/MHz	2.50dBm/MHz	≤9.45	PASS
	Ant1	5700	MCS0	0.16	3.92dBm/MHz	4.08dBm/MHz	≤11.00	PASS
	Ant2	5700	MCS0	0.16	2.11dBm/MHz	2.27dBm/MHz	≤9.45	PASS
11AC40SISO	Ant1	5510	MCS0	0.26	1.01dBm/MHz	1.27dBm/MHz	≤11.00	PASS
	Ant2	5510	MCS0	0.26	-0.66dBm/MHz	-0.40dBm/MHz	≤9.45	PASS
	Ant1	5550	MCS0	0.32	0.27dBm/MHz	0.59dBm/MHz	≤11.00	PASS
	Ant2	5550	MCS0	0.26	-1.12dBm/MHz	-0.86dBm/MHz	≤9.45	PASS
	Ant1	5670	MCS0	0.32	0.95dBm/MHz	1.27dBm/MHz	≤11.00	PASS
	Ant2	5670	MCS0	0.26	-0.55dBm/MHz	-0.29dBm/MHz	≤9.45	PASS
11AC80SISO	Ant1	5530	MCS0	0.63	-2.32dBm/MHz	-1.69dBm/MHz	≤11.00	PASS
	Ant2	5530	MCS0	0.63	-3.48dBm/MHz	-2.85dBm/MHz	≤9.45	PASS
	Ant1	5610	MCS0	0.16	-2.57dBm/MHz	-1.94dBm/MHz	≤11.00	PASS
	Ant2	5610	MCS0	0.17	-3.95dBm/MHz	-3.45dBm/MHz	≤9.45	PASS
11N20MIMO	Ant1	5500	MCS0	/	1.01dBm/MHz	1.17dBm/MHz	≤11.00	PASS
	Ant2	5500	MCS0	0.16	-0.4dBm/MHz	-0.23dBm/MHz	≤9.45	PASS
	total	5500	MCS0	0.13	/	3.54dBm/MHz	≤7.39	PASS

	Ant1	5580	MCS0	/	-0.32dBm/MHz	-0.16dBm/MHz	≤11.00	PASS
	Ant2	5580	MCS0	0.16	-1.47dBm/MHz	-1.34dBm/MHz	≤9.45	PASS
	total	5580	MCS0	0.13	/	2.28dBm/MHz	≤7.39	PASS
	Ant1	5700	MCS0	/	-0.22dBm/MHz	-0.06dBm/MHz	≤11.00	PASS
	Ant2	5700	MCS0	0.26	-1.14dBm/MHz	-1.01dBm/MHz	≤9.45	PASS
	total	5700	MCS0	0.33	/	2.50dBm/MHz	≤7.39	PASS
11N40MIMO	Ant1	5510	MCS0	/	-2.53dBm/MHz	-2.27dBm/MHz	≤11.00	PASS
	Ant2	5510	MCS0	0.32	-4.02dBm/MHz	-3.69dBm/MHz	≤9.45	PASS
	total	5510	MCS0	0.32	/	0.09dBm/MHz	≤7.39	PASS
	Ant1	5550	MCS0	/	-3.3dBm/MHz	-2.98dBm/MHz	≤11.00	PASS
	Ant2	5550	MCS0	0.26	-4.13dBm/MHz	-3.81dBm/MHz	≤9.45	PASS
	total	5550	MCS0	0.26	/	-0.36dBm/MHz	≤7.39	PASS
	Ant1	5670	MCS0	/	-3.12dBm/MHz	-2.86dBm/MHz	≤11.00	PASS
	Ant2	5670	MCS0	0.31	-3.83dBm/MHz	-3.57dBm/MHz	≤9.45	PASS
	total	5670	MCS0	0.31	/	-0.18dBm/MHz	≤7.39	PASS
11AC20MIMO	Ant1	5500	MCS0	/	0.68dBm/MHz	0.99dBm/MHz	≤11.00	PASS
	Ant2	5500	MCS0	0.25	-0.79dBm/MHz	-0.48dBm/MHz	≤9.45	PASS
	total	5500	MCS0	0.25	/	3.34dBm/MHz	≤7.39	PASS
	Ant1	5580	MCS0	/	-0.35dBm/MHz	-0.10dBm/MHz	≤11.00	PASS
	Ant2	5580	MCS0	0.31	-1.34dBm/MHz	-1.09dBm/MHz	≤9.45	PASS
	total	5580	MCS0	0.13	/	2.46dBm/MHz	≤7.39	PASS
	Ant1	5700	MCS0	/	0.17dBm/MHz	0.48dBm/MHz	≤11.00	PASS
	Ant2	5700	MCS0	0.47	-1.33dBm/MHz	-1.20dBm/MHz	≤9.45	PASS
	total	5700	MCS0	0.58	/	2.74dBm/MHz	≤7.39	PASS
11AC40MIMO	Ant1	5510	MCS0	/	-7.78dBm/MHz	-7.31dBm/MHz	≤11.00	PASS
	Ant2	5510	MCS0	0.58	-2.02dBm/MHz	-1.44dBm/MHz	≤9.45	PASS
	total	5510	MCS0	0.58	/	-0.41dBm/MHz	≤7.39	PASS
	Ant1	5550	MCS0	/	-7.54dBm/MHz	-6.96dBm/MHz	≤11.00	PASS
	Ant2	5550	MCS0	0.58	-3.11dBm/MHz	-2.53dBm/MHz	≤9.45	PASS
	total	5550	MCS0	0.47	/	-1.19dBm/MHz	≤7.39	PASS
	Ant1	5670	MCS0	/	-7.25dBm/MHz	-6.67dBm/MHz	≤11.00	PASS
	Ant2	5670	MCS0	0.83	-2.67dBm/MHz	-2.20dBm/MHz	≤9.45	PASS
	total	5670	MCS0	0.83	/	-0.92dBm/MHz	≤7.39	PASS
11AC80MIMO	Ant1	5530	MCS0	/	-12.51dBm/MHz	-11.68dBm/MHz	≤11.00	PASS
	Ant2	5530	MCS0	0.15	-7.65dBm/MHz	-6.82dBm/MHz	≤9.45	PASS
	total	5530	MCS0	0.12	/	-5.53dBm/MHz	≤7.39	PASS
	Ant1	5610	MCS0	0.15	-12.18dBm/MHz	-11.35dBm/MHz	≤11.00	PASS
	Ant2	5610	MCS0	0.15	-7.62dBm/MHz	-6.79dBm/MHz	≤9.45	PASS
	total	5610	MCS0	0.15	/	-5.53dBm/MHz	≤7.39	PASS

Note:

1.The Duty Cycle Factor and RBW Factor have been compensated in the Test Result using the formula below:

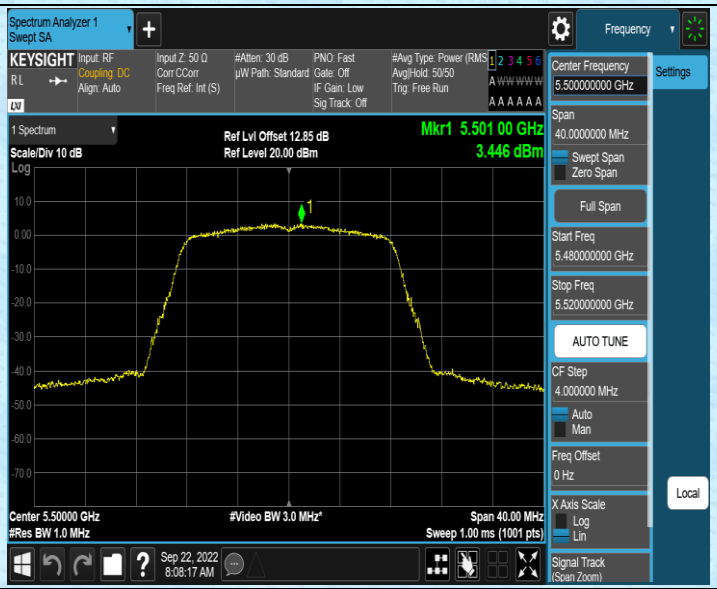
Result=PSD+10log(1/x),PSD is measured value in dBm/MHz,and x is Duty Cycle in %.

2.The multi-antenna gain has been obtained from the gain conversion of antenna 1 and antenna 2.

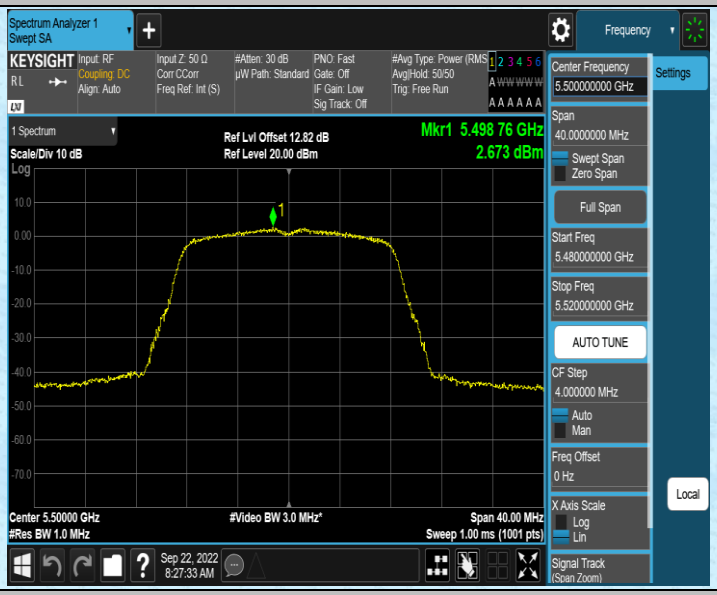
3.Part 15.407 explains that the maximum power spectral density limit remains unchanged when the antenna gain is less than 6dBi,

and the final limit is obtained by subtracting the greater part from the maximum power spectral density when the antenna gain is greater than 6dBi.

Test Graphs



11A_Ant1_5500



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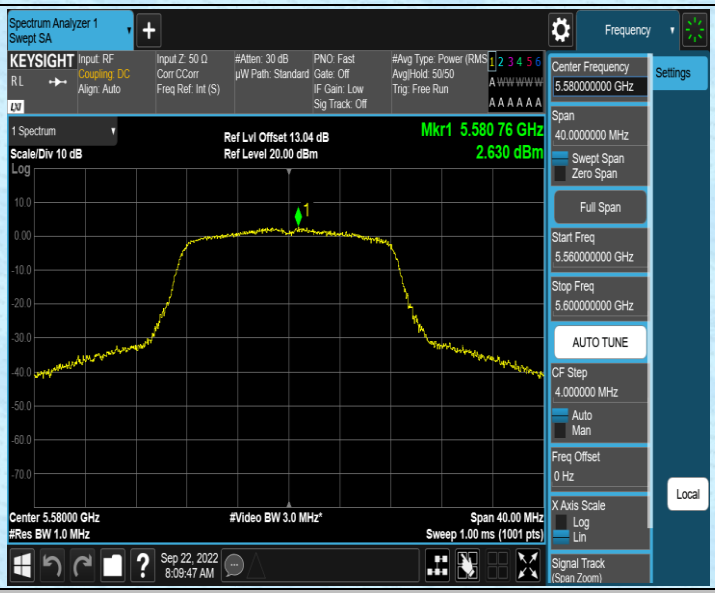

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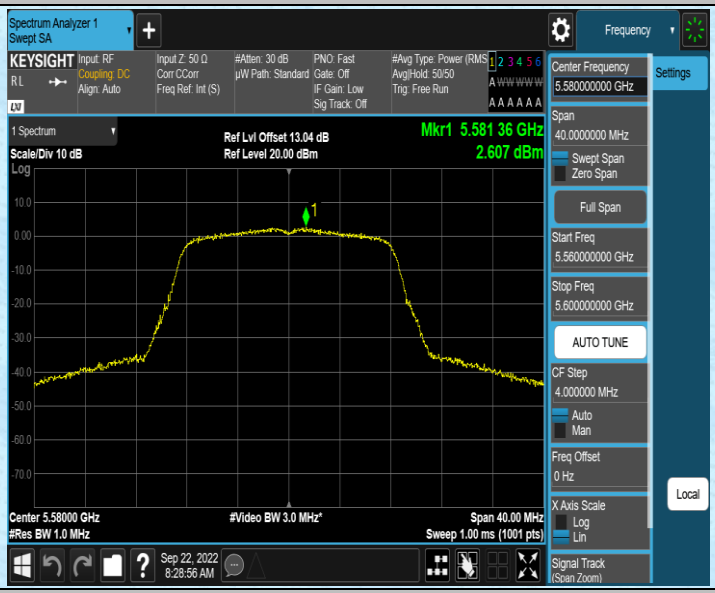

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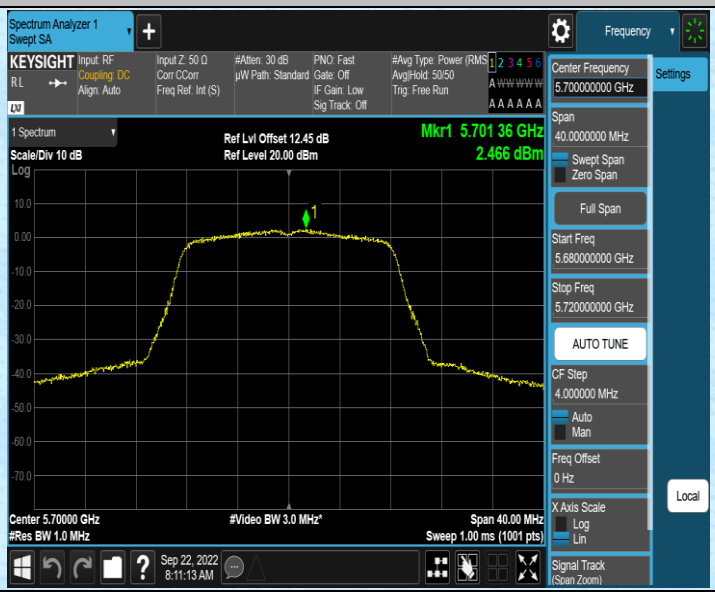

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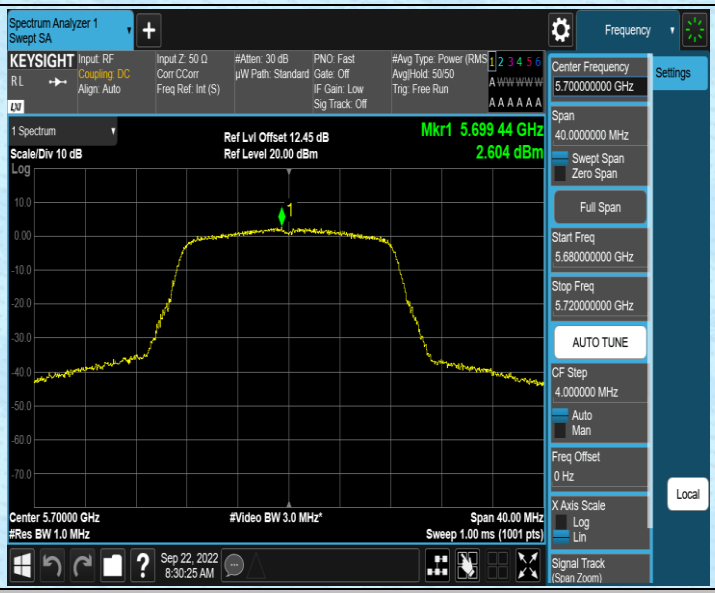

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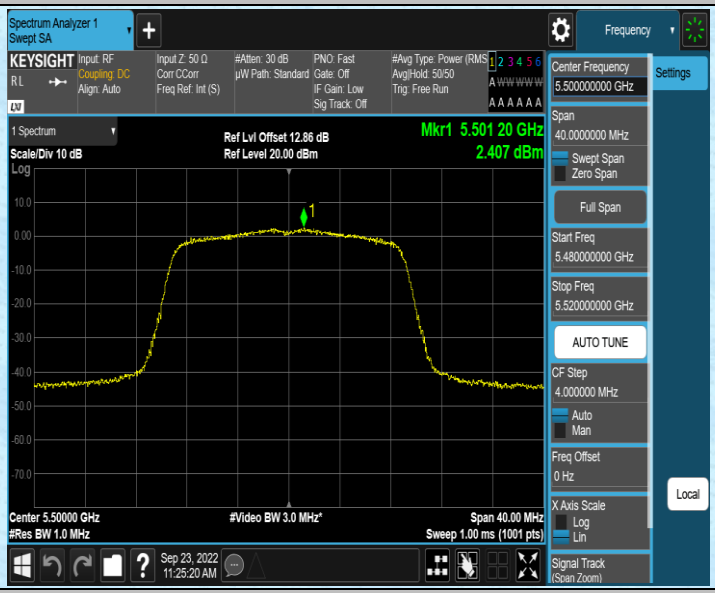

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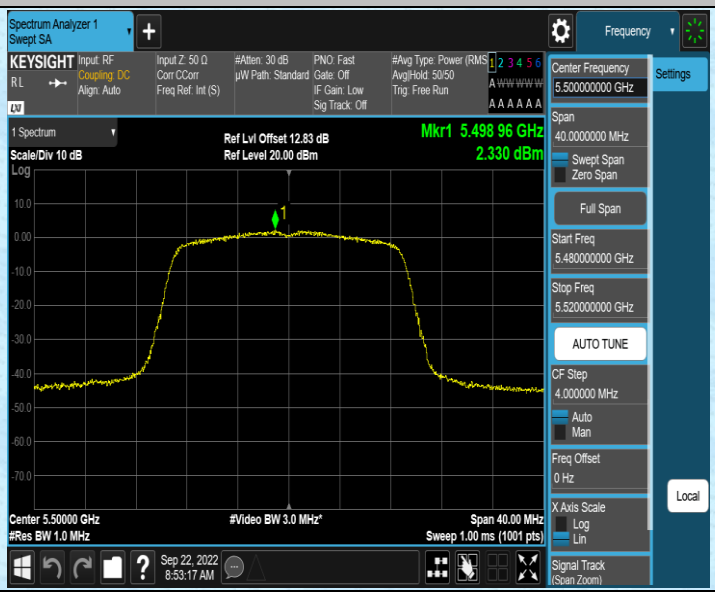

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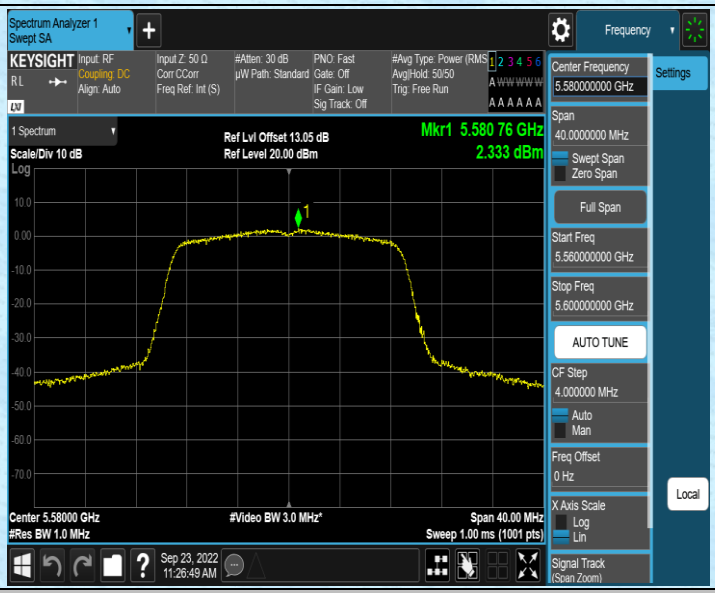

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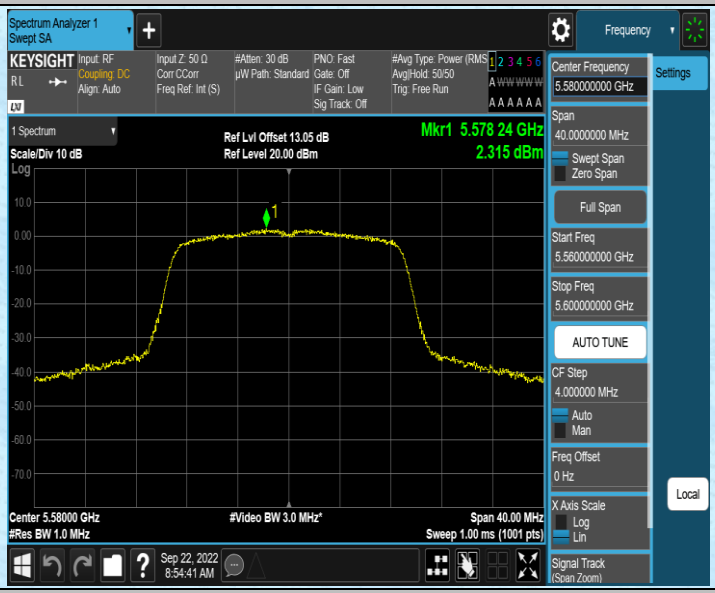

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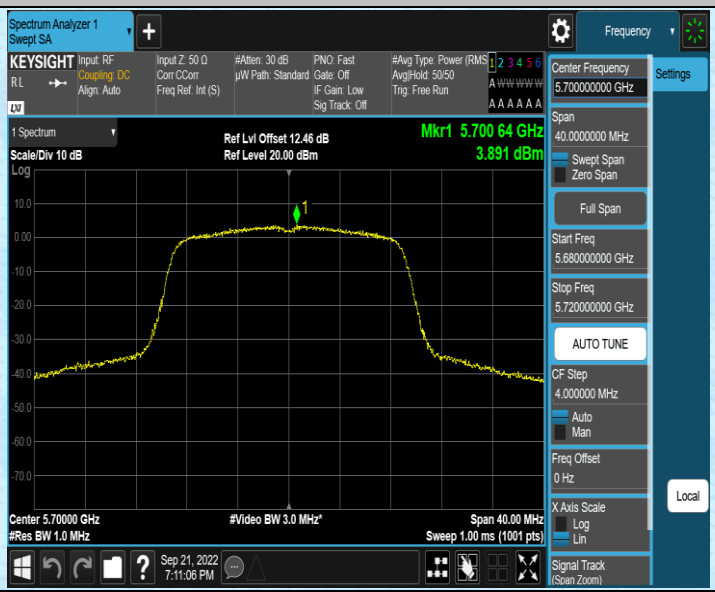

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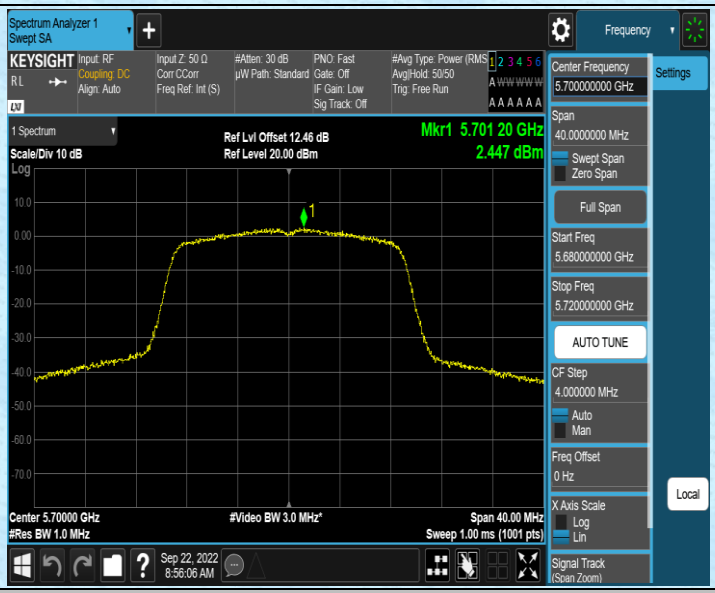

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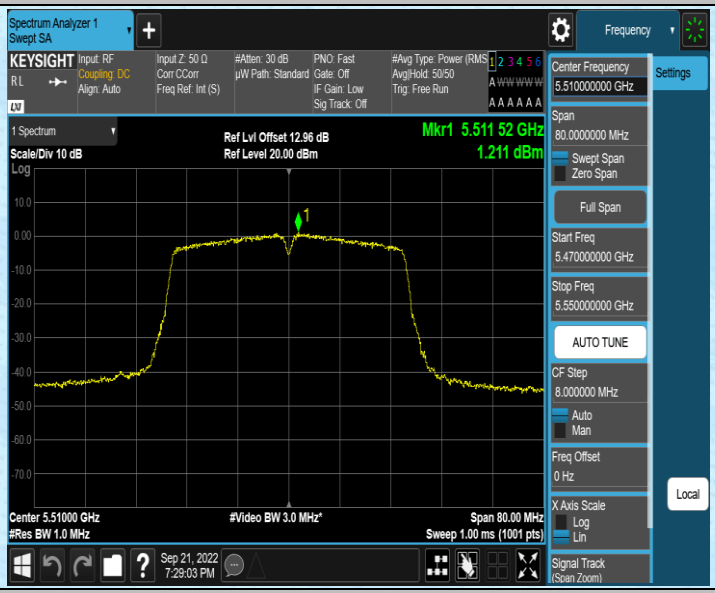

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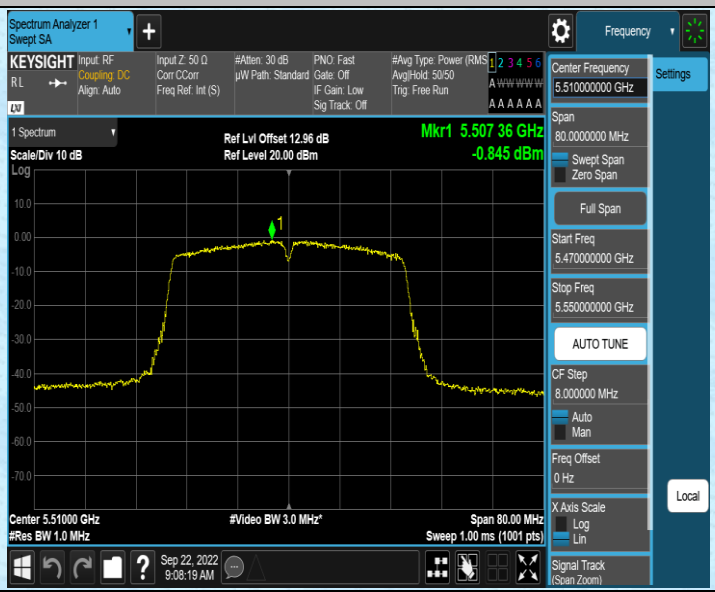

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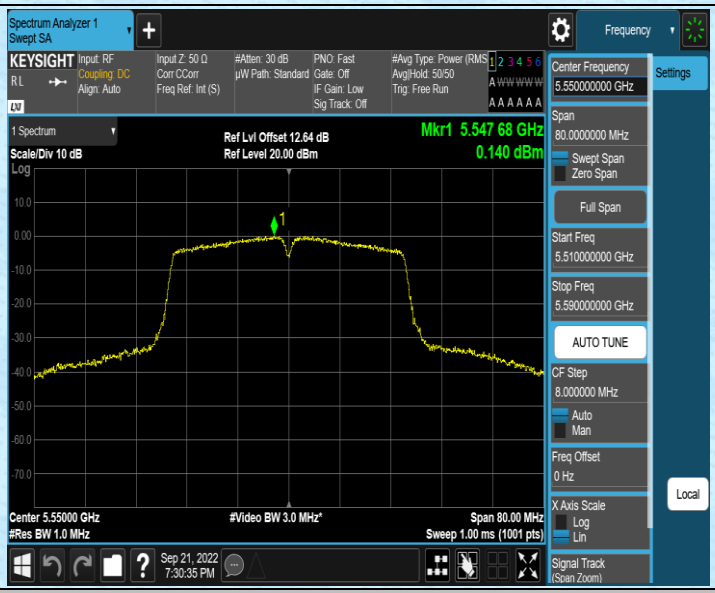

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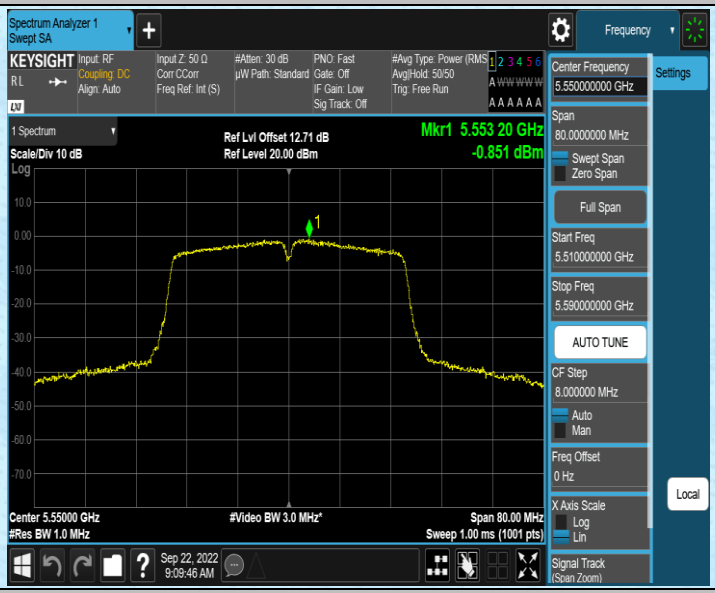

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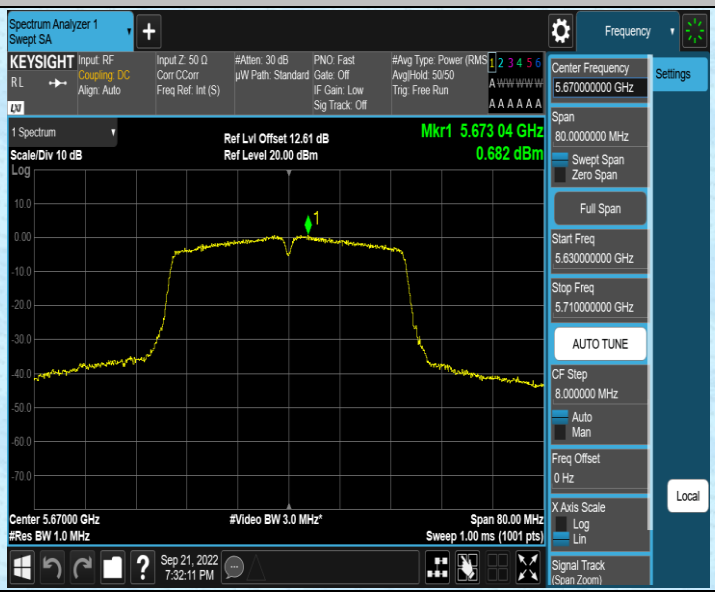

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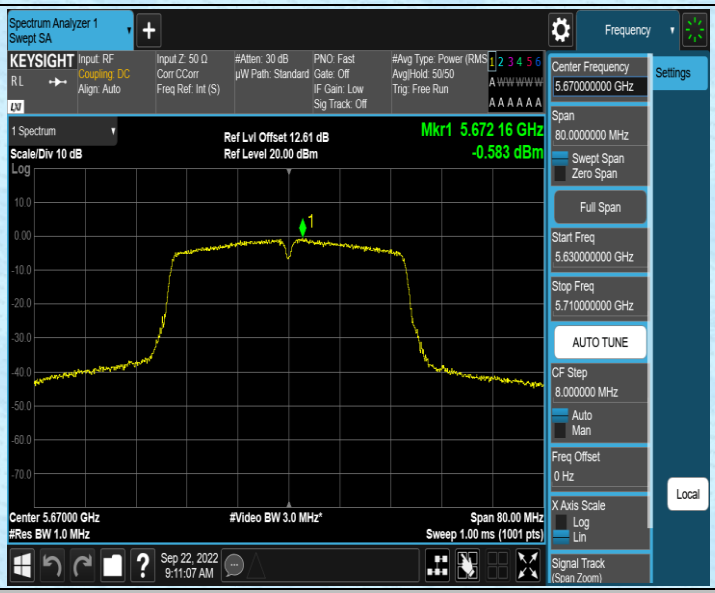

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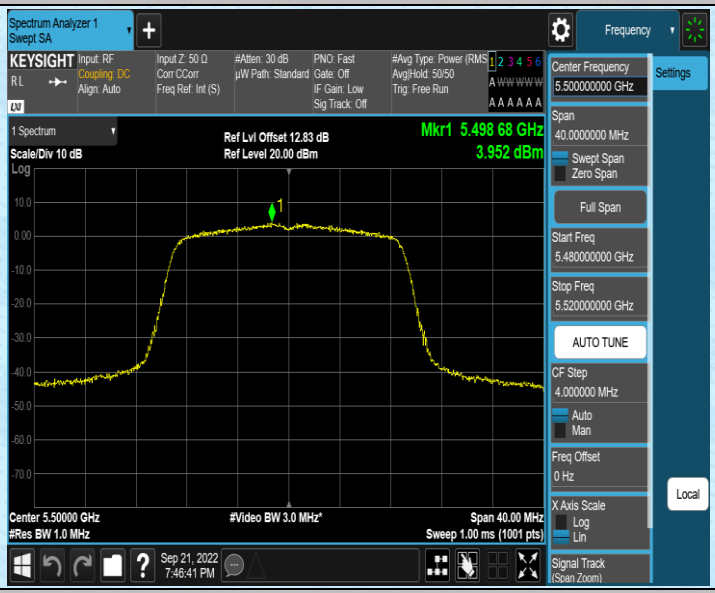

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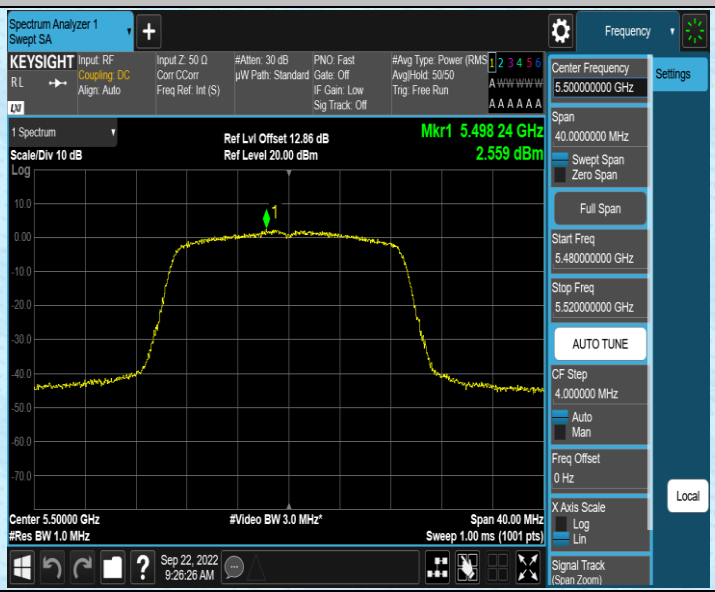

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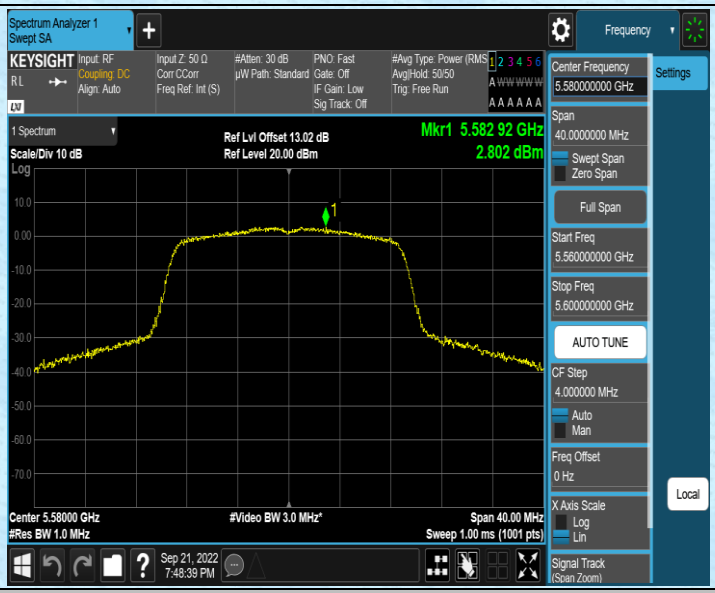

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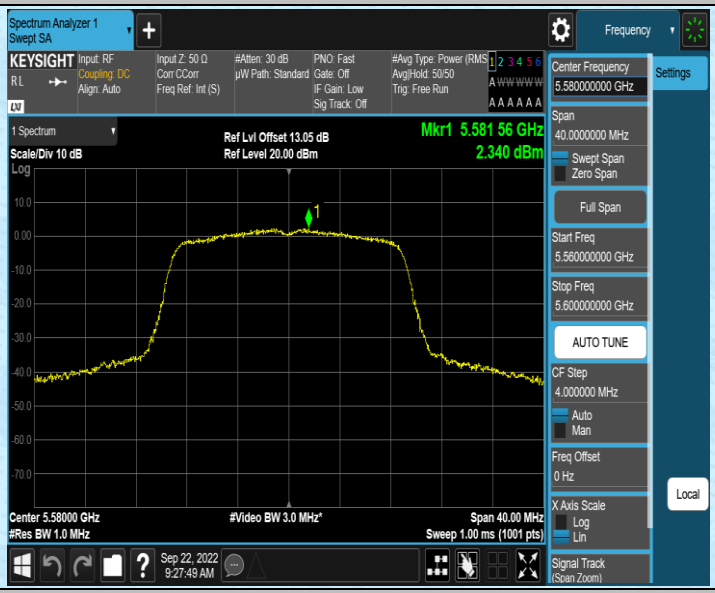

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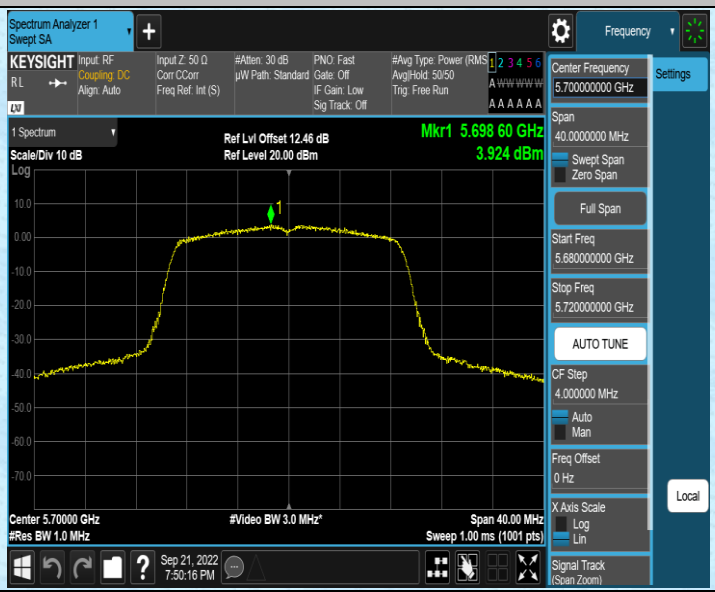

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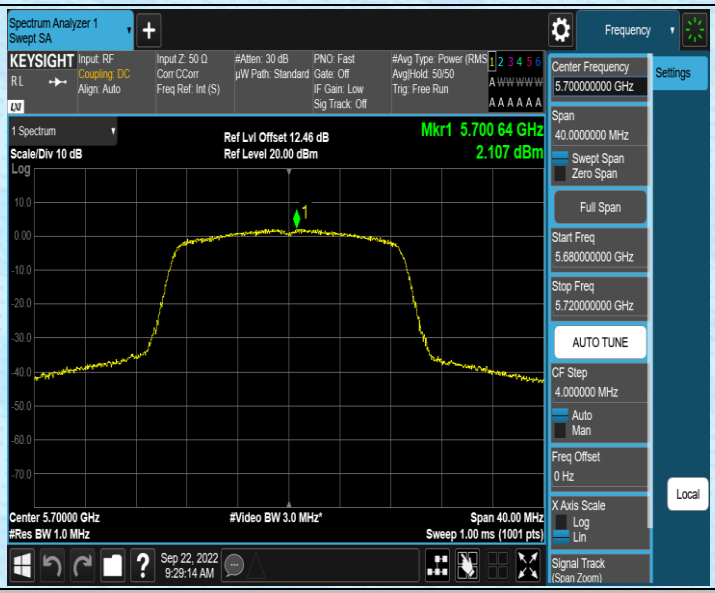

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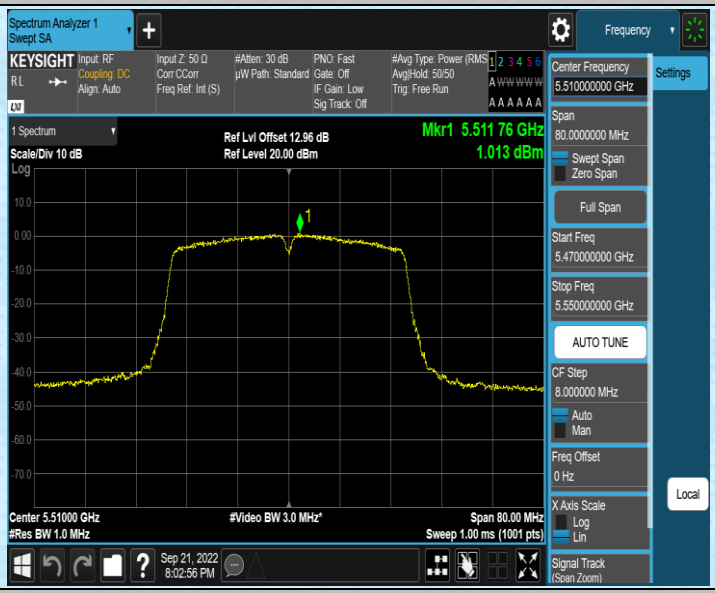

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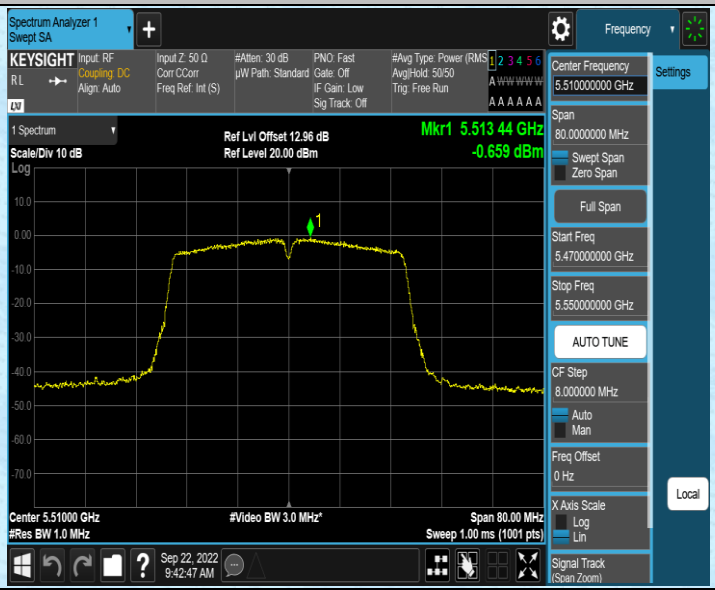

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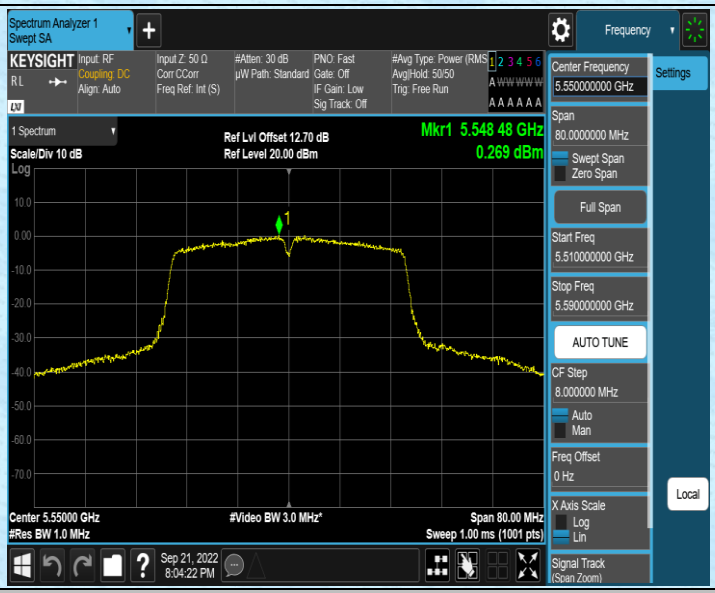

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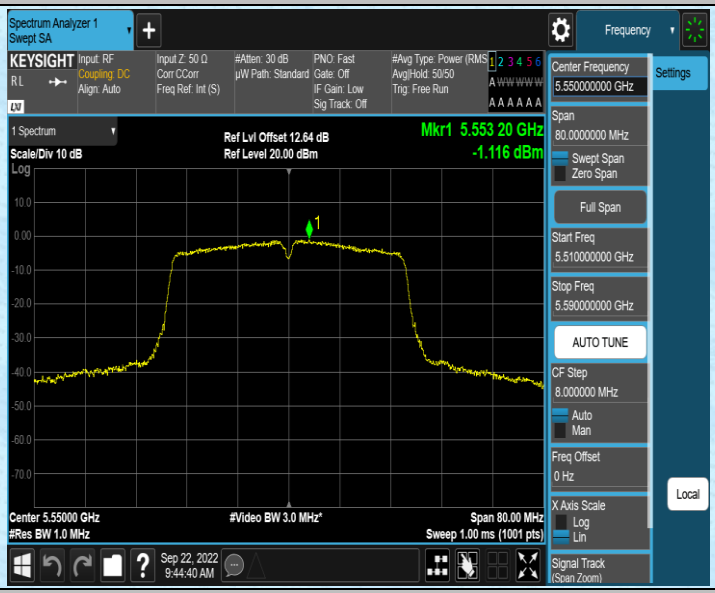

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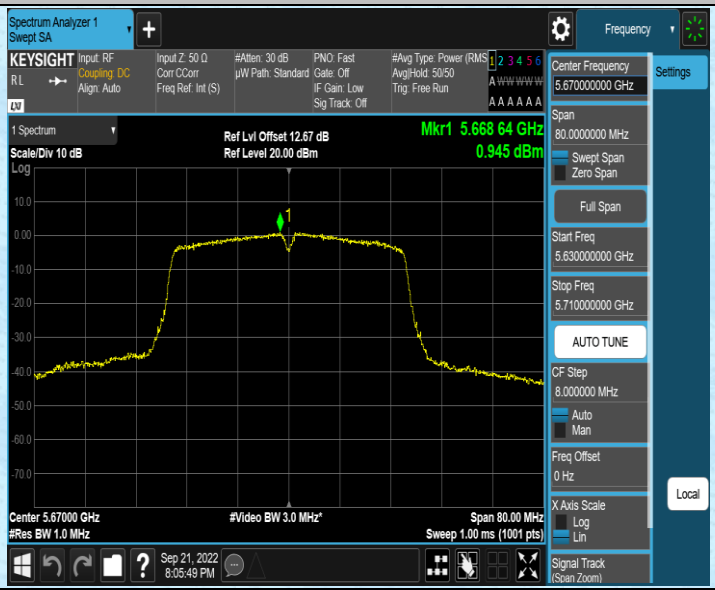

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