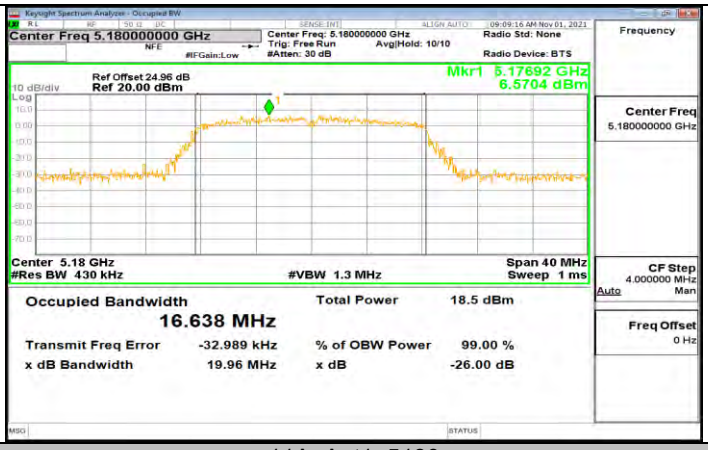
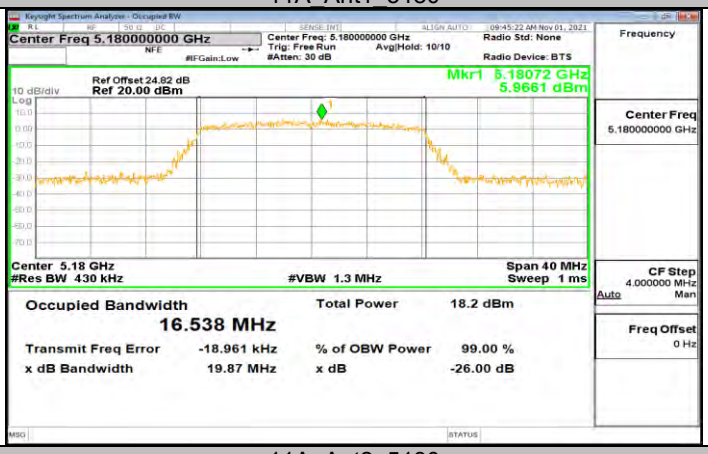
12.2.2. Test Graphs



11A_Ant1_5180



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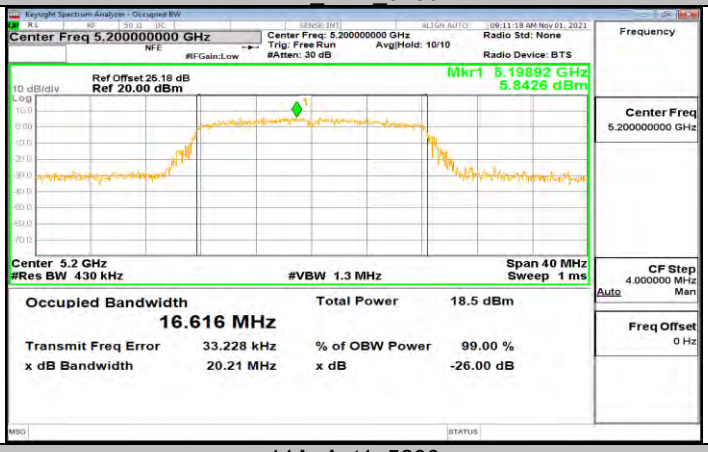

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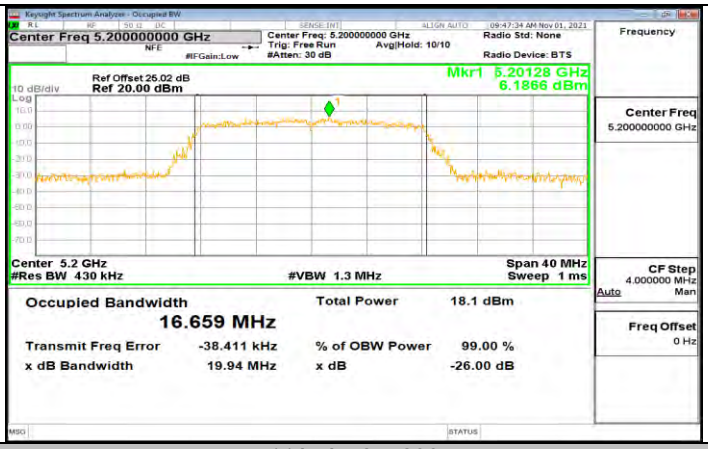

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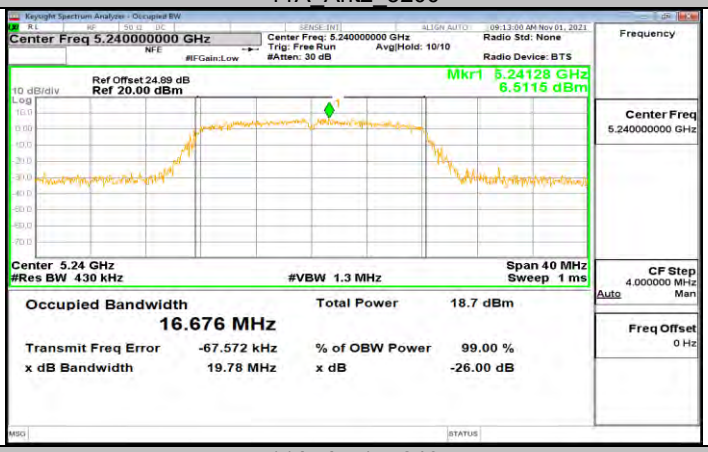

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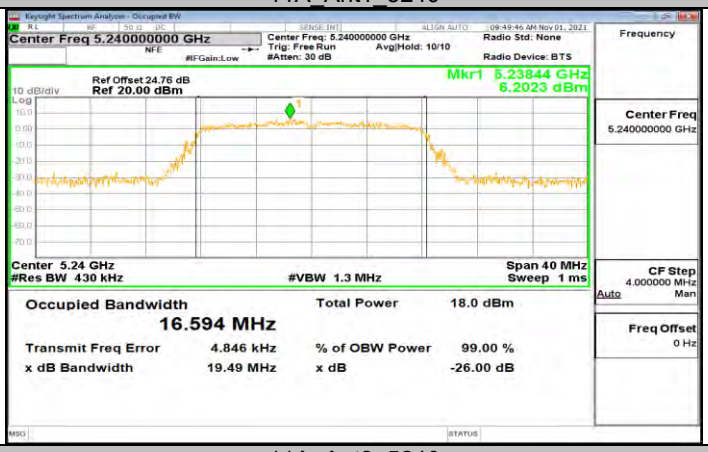

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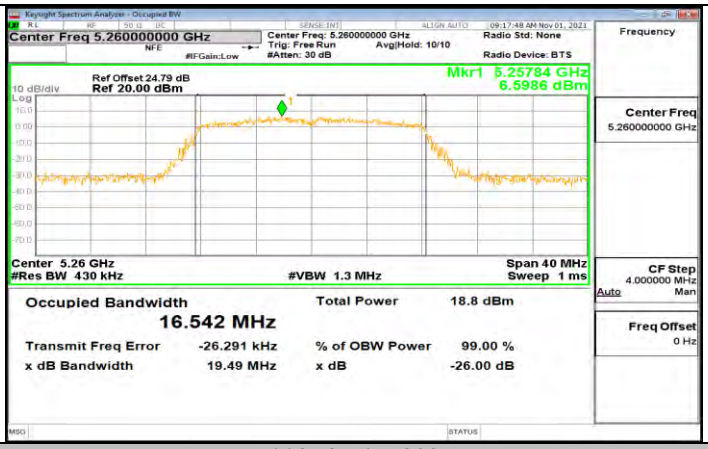

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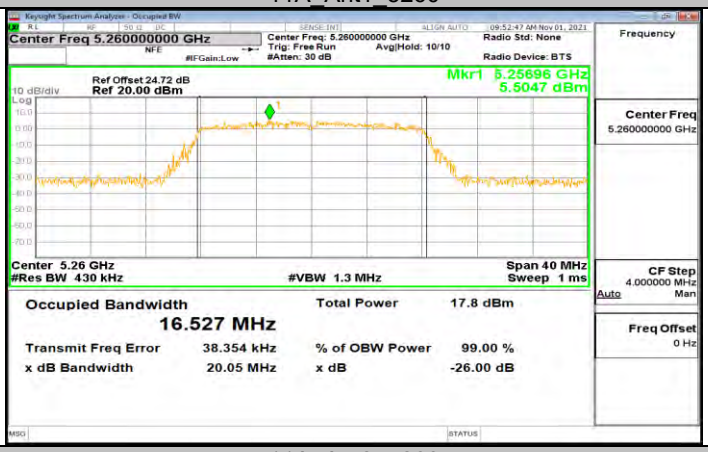

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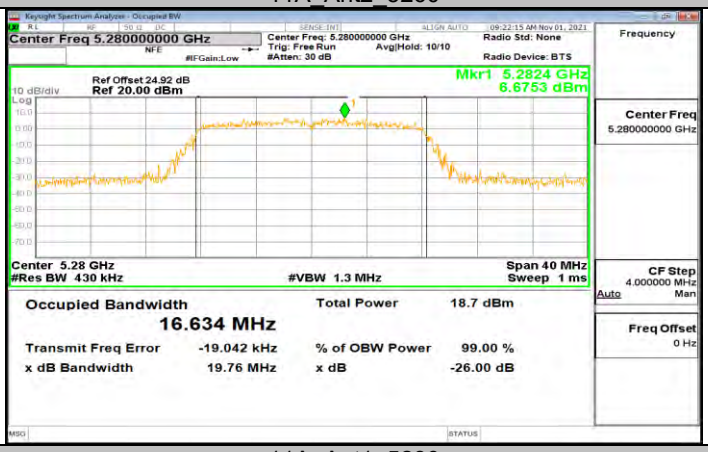

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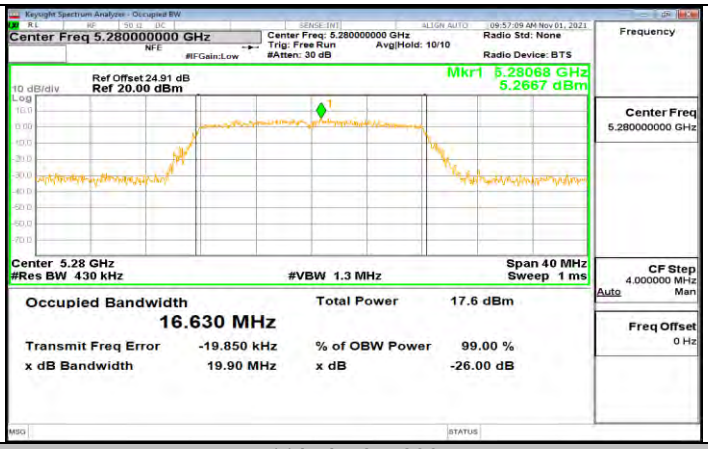

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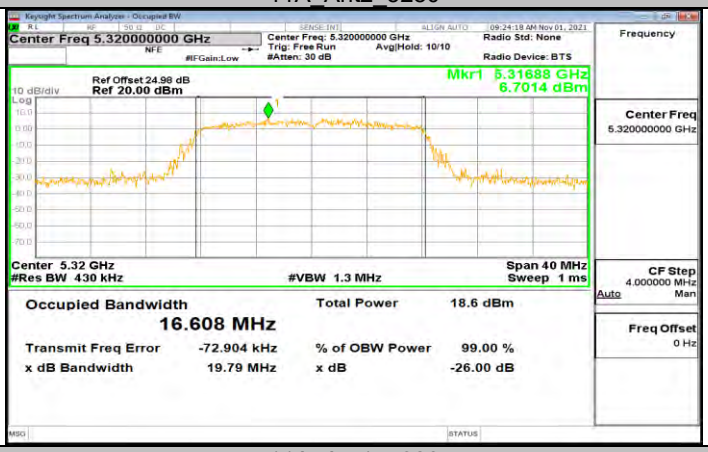

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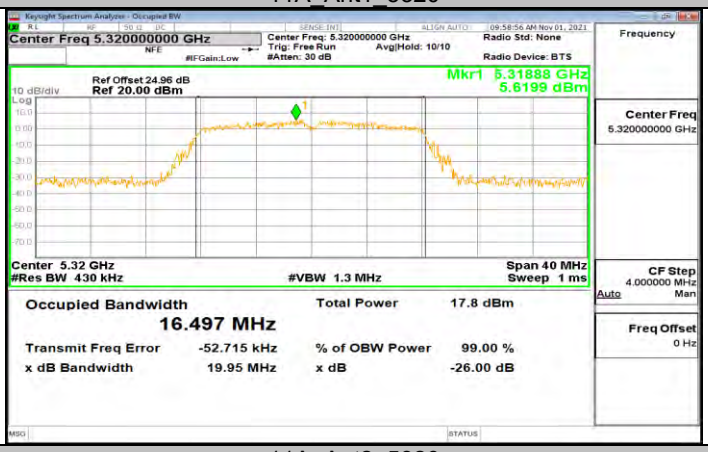

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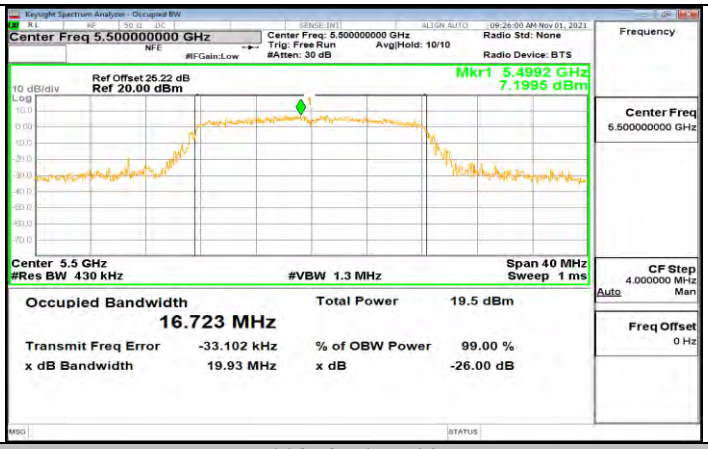

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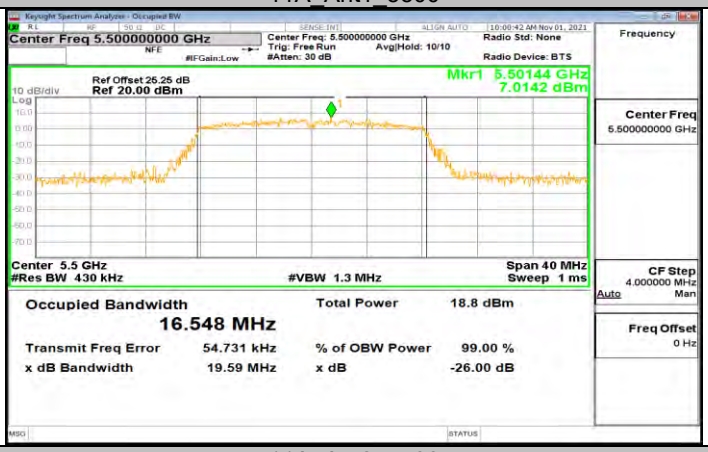

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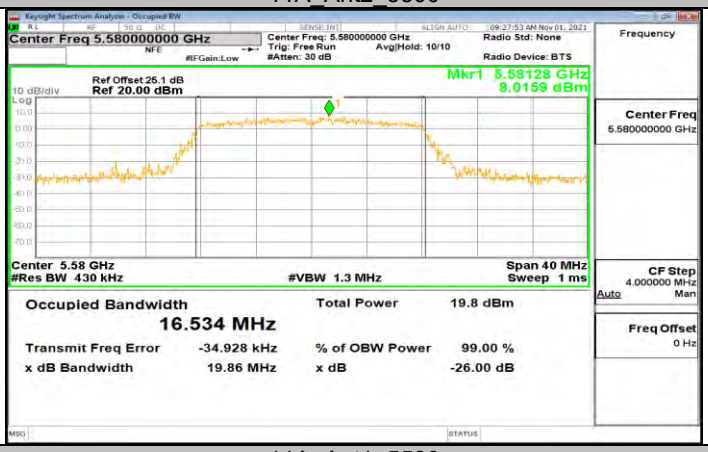

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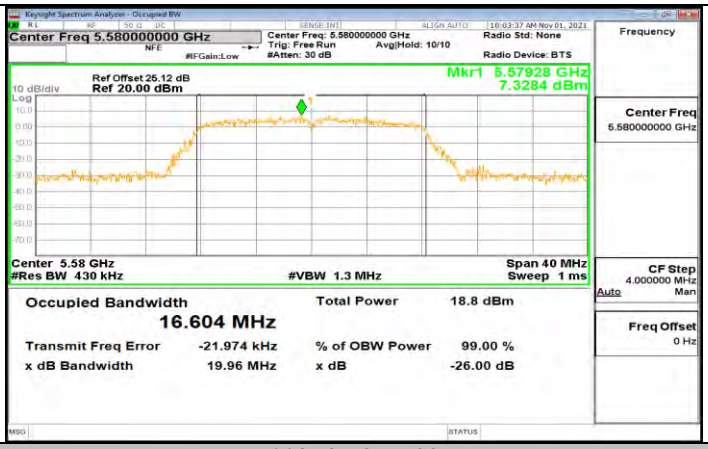

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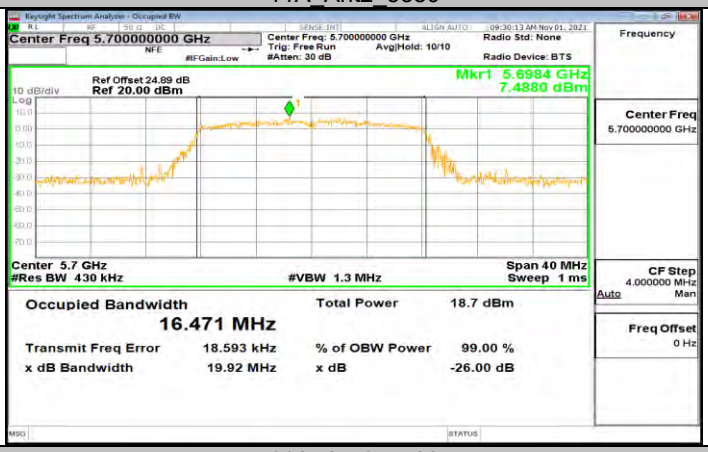

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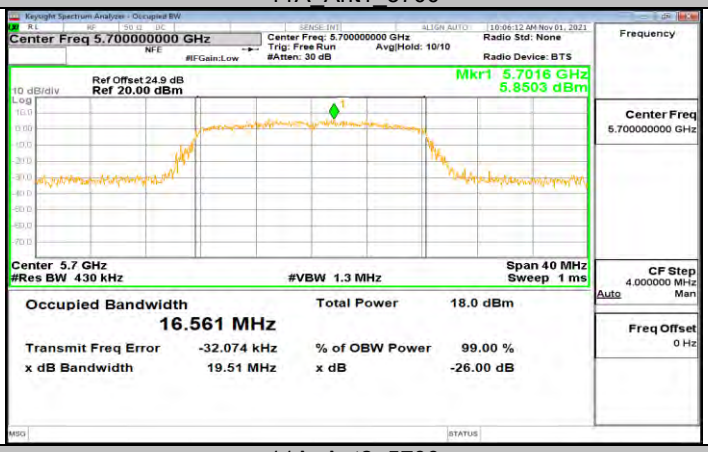

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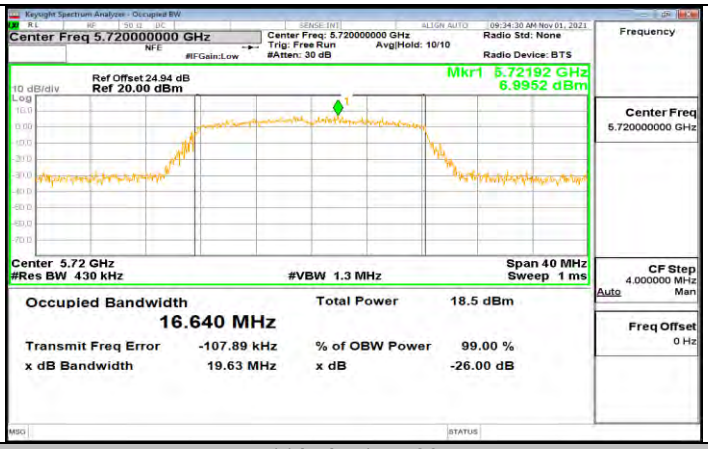

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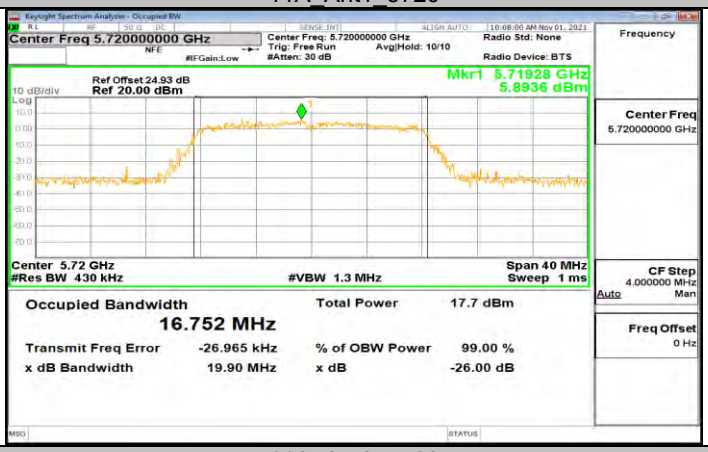

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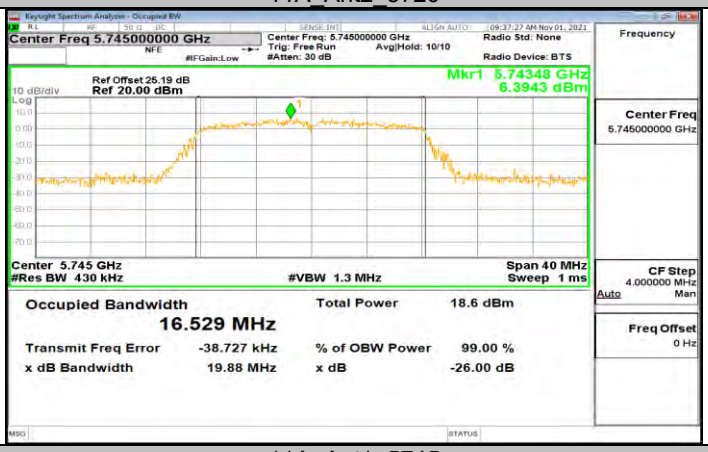

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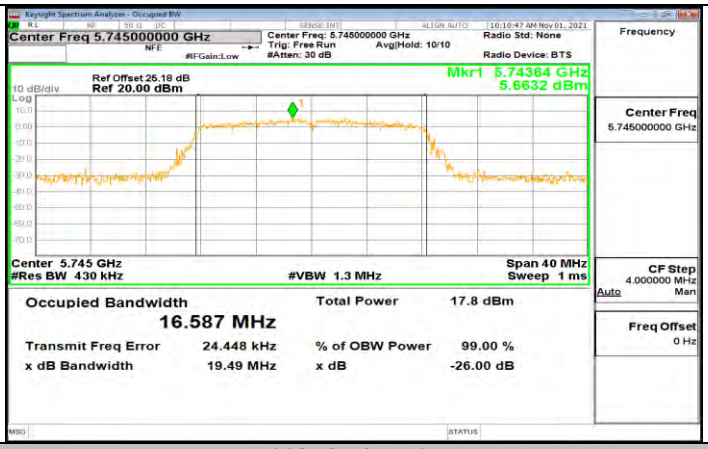

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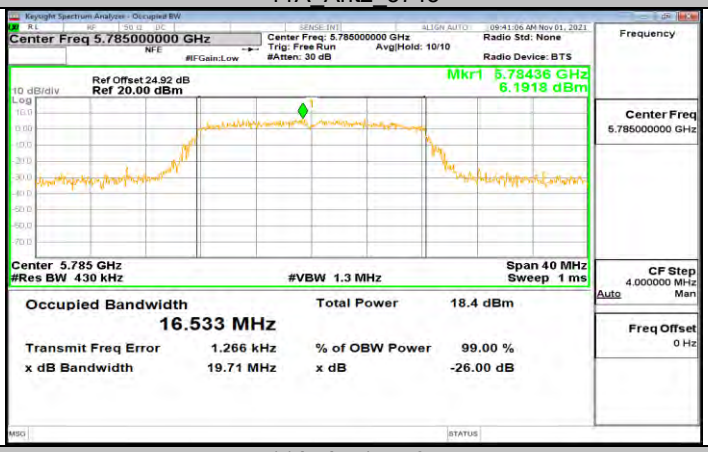

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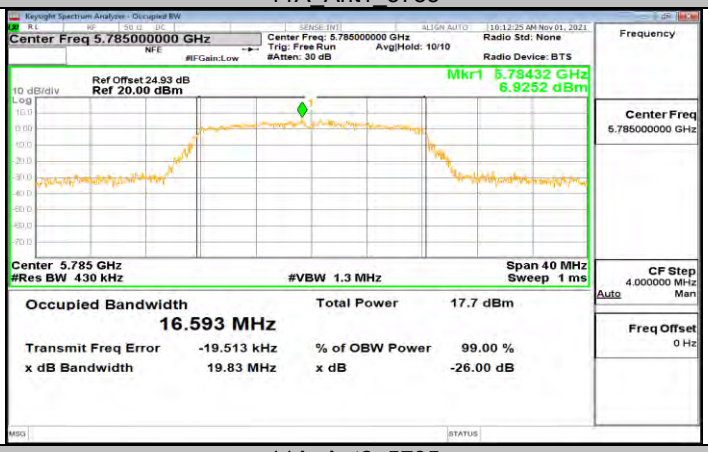

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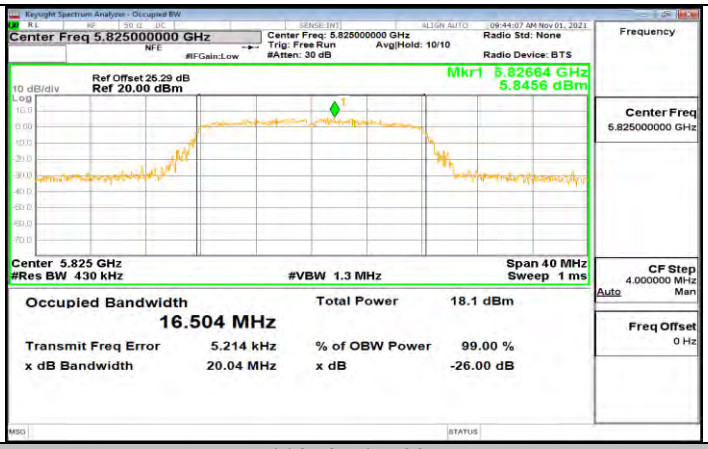

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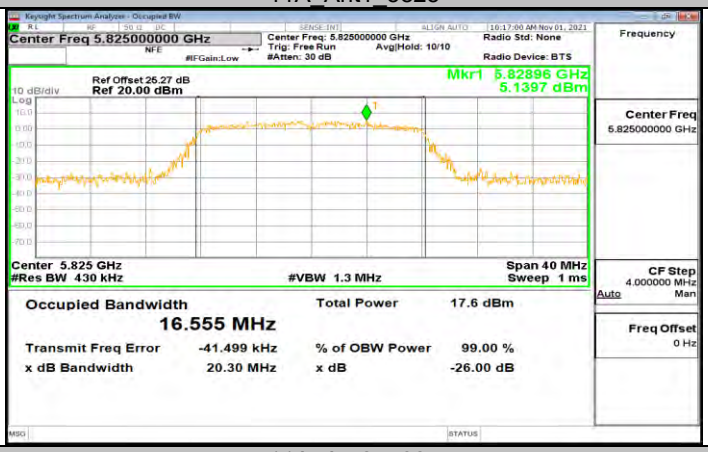

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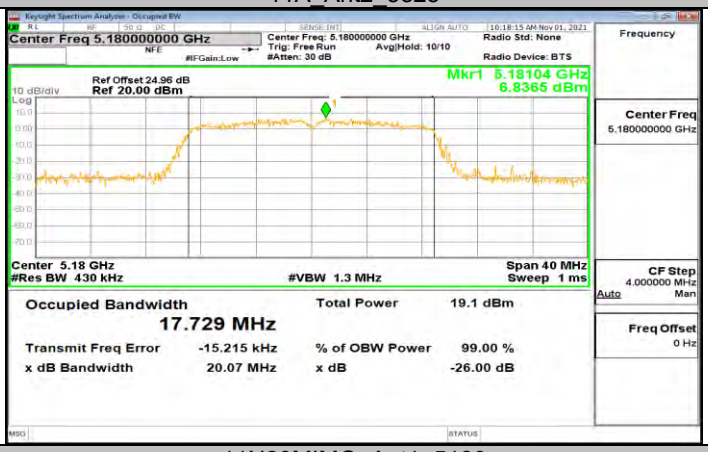

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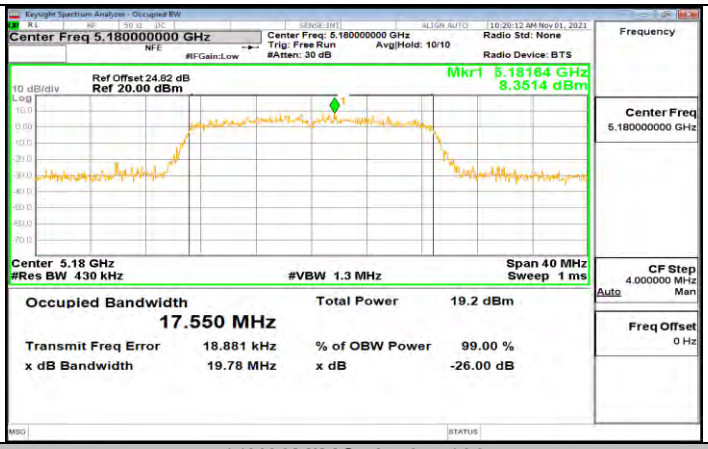

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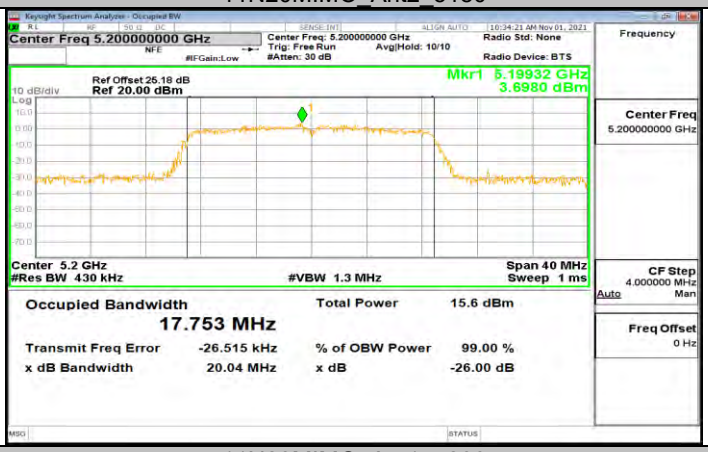

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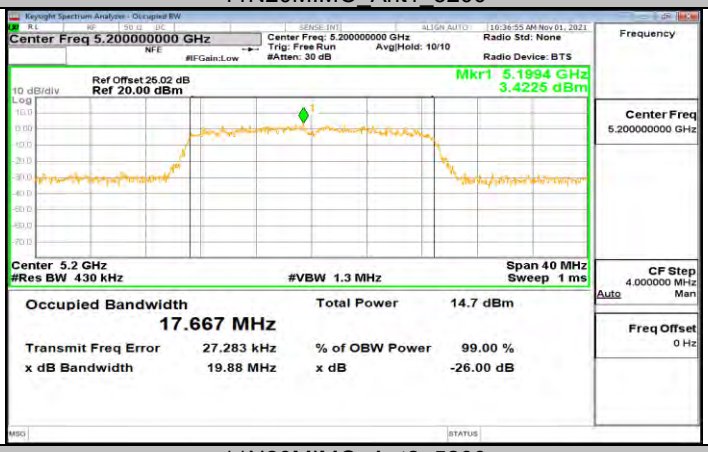

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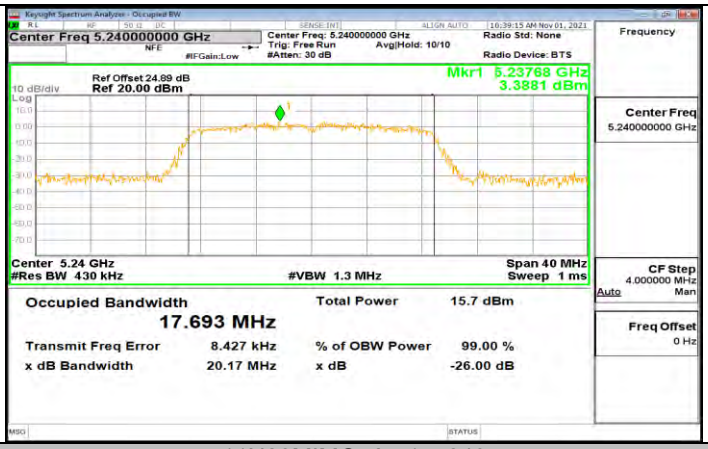

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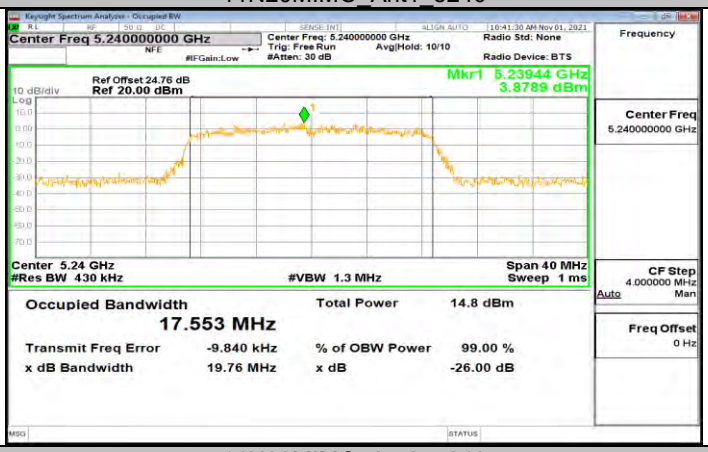

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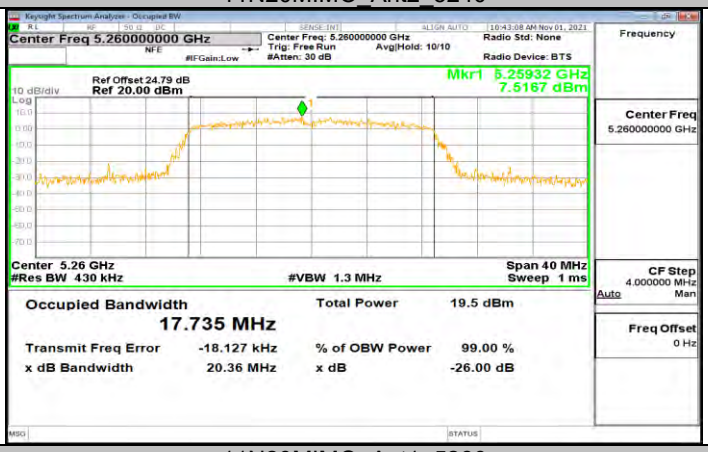

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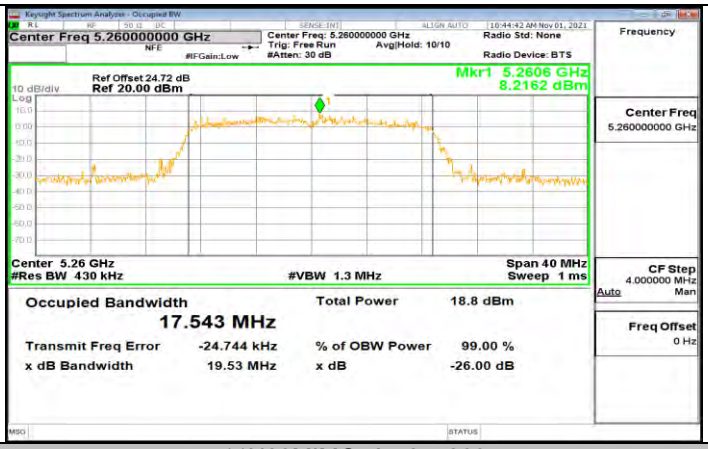

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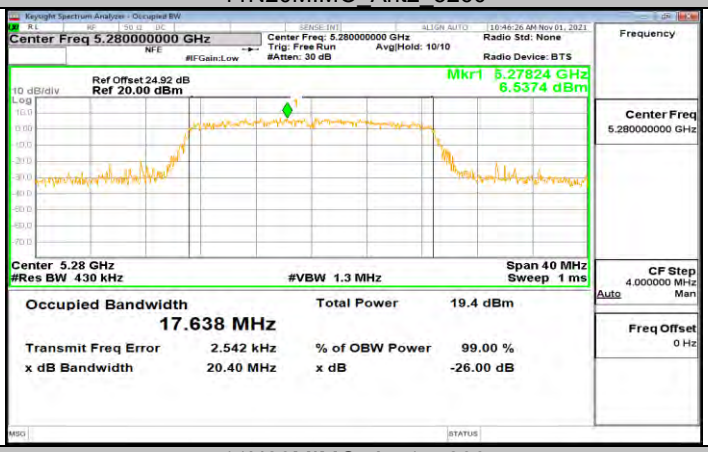

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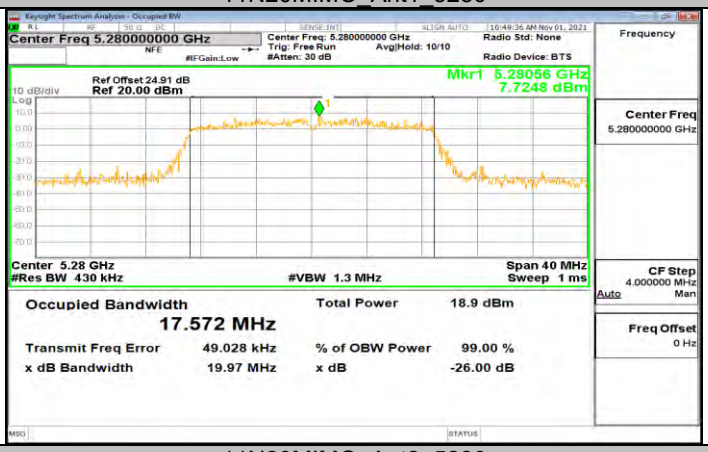

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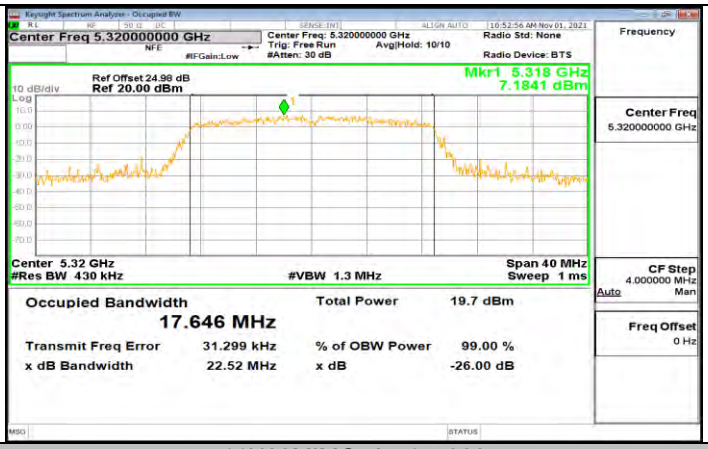

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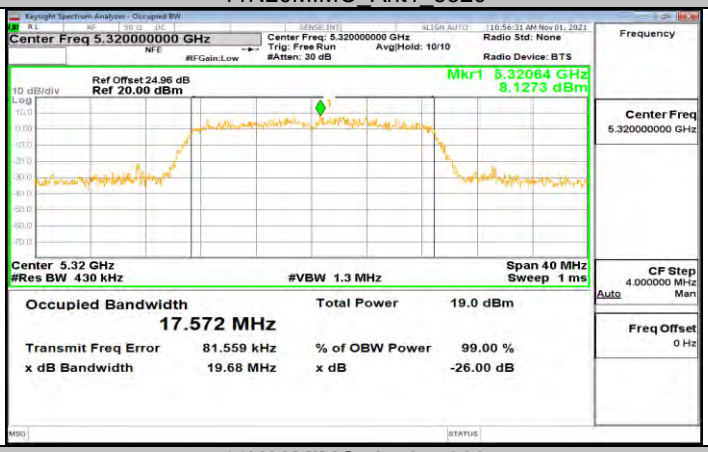

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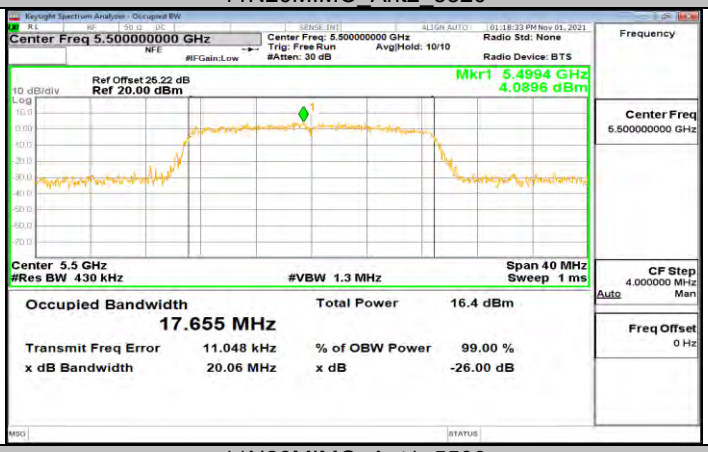

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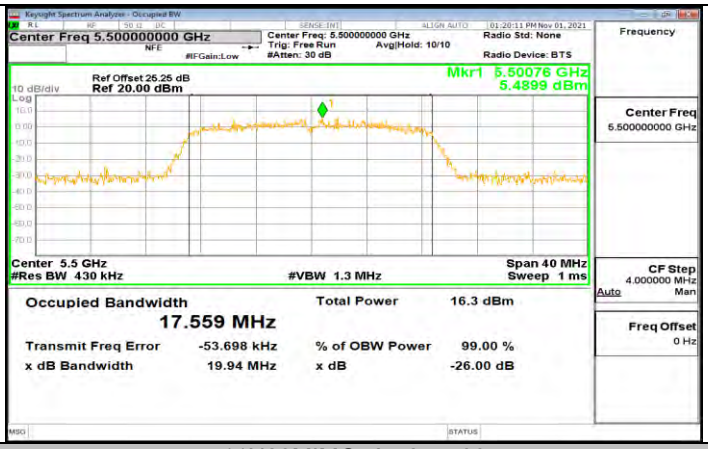

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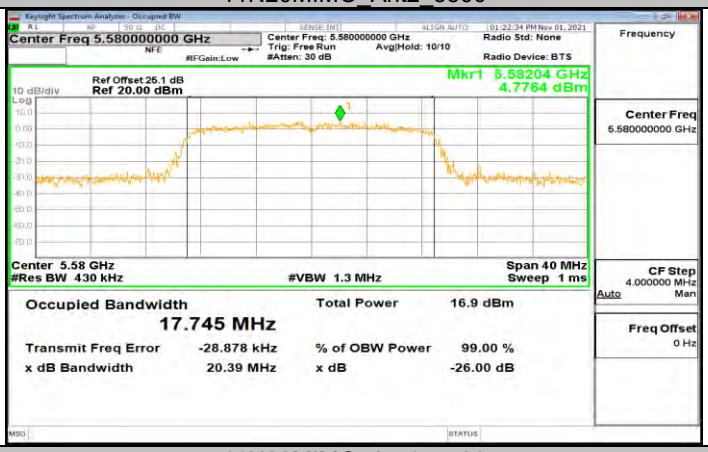

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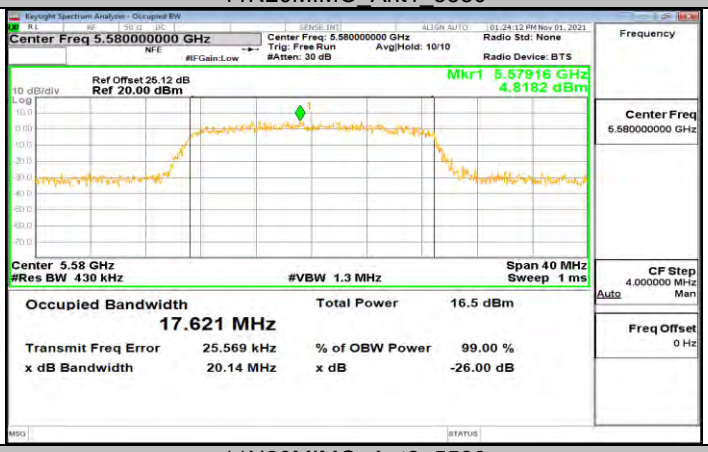

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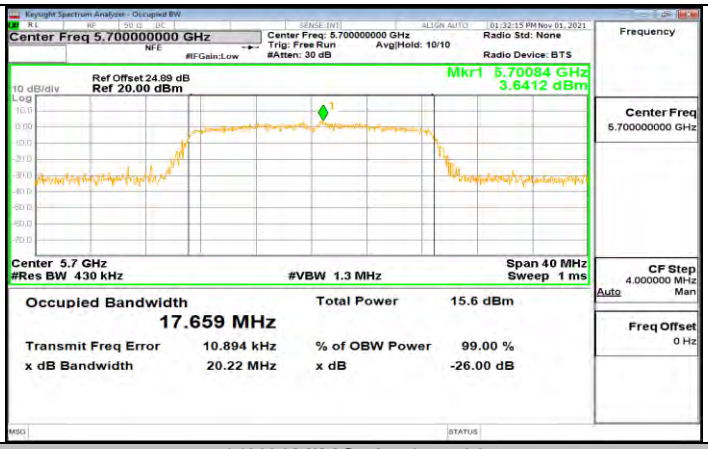

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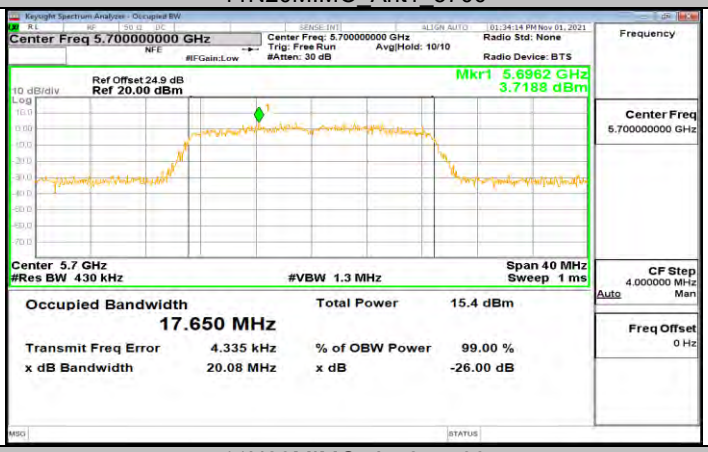

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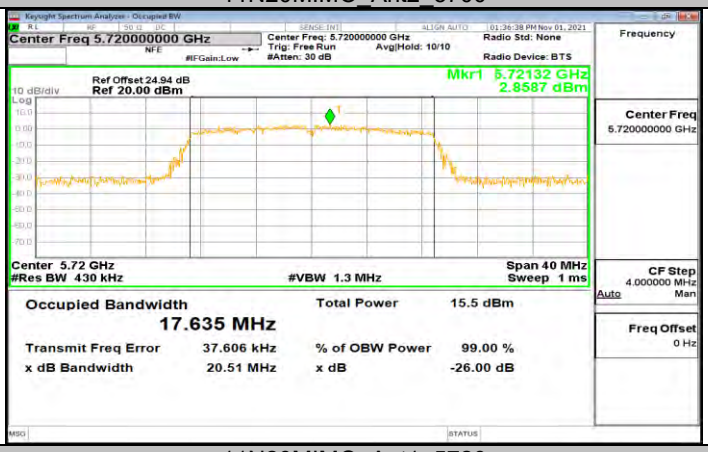

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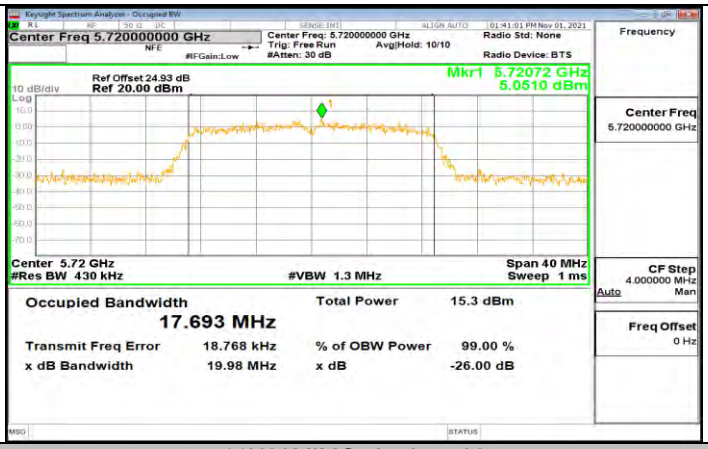

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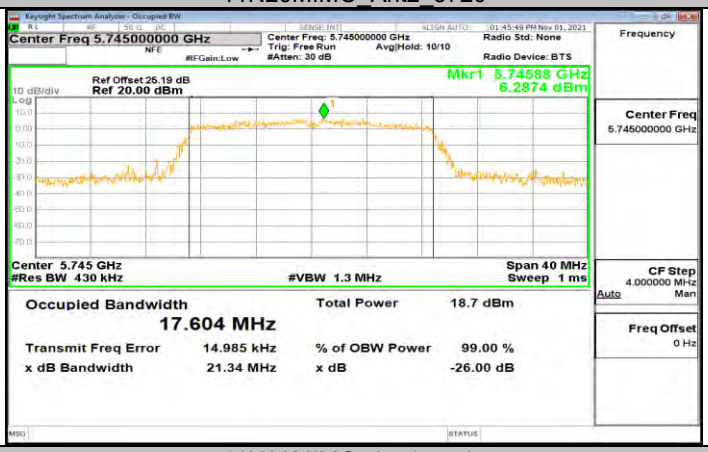

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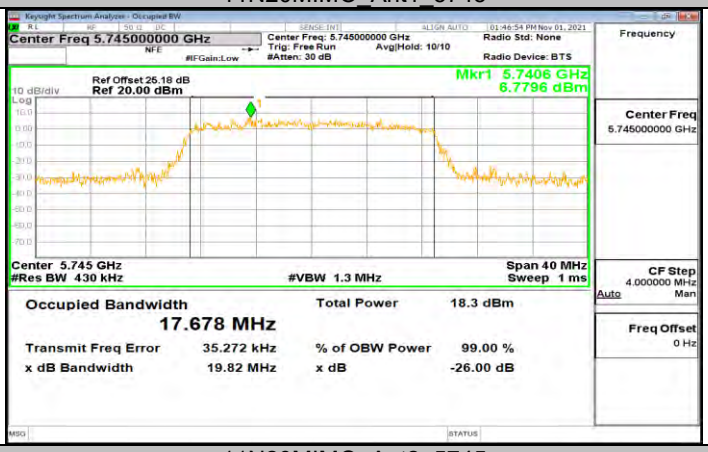

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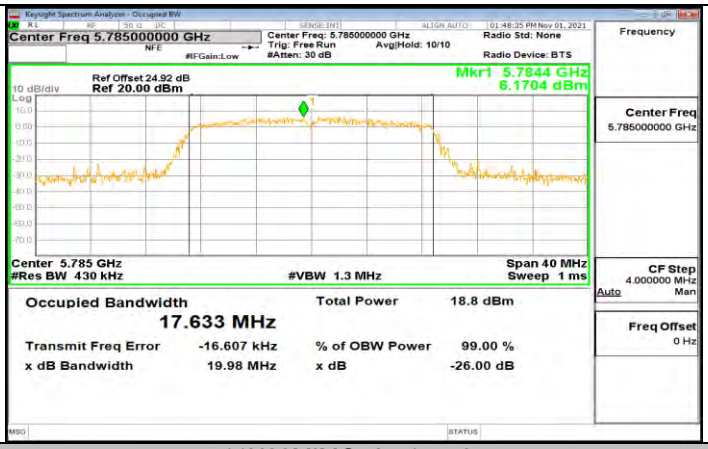

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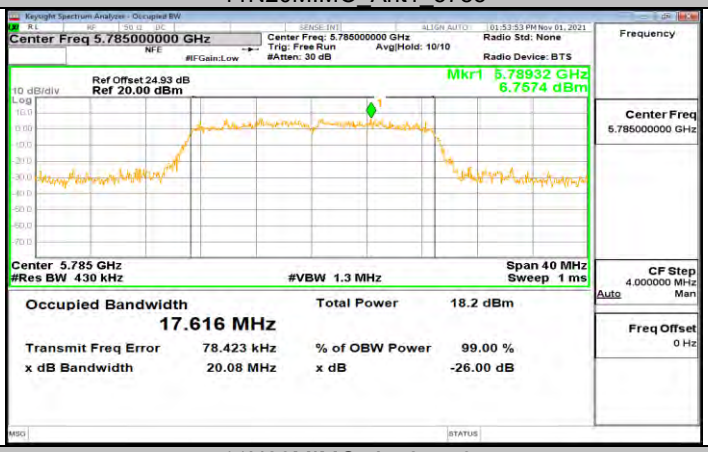

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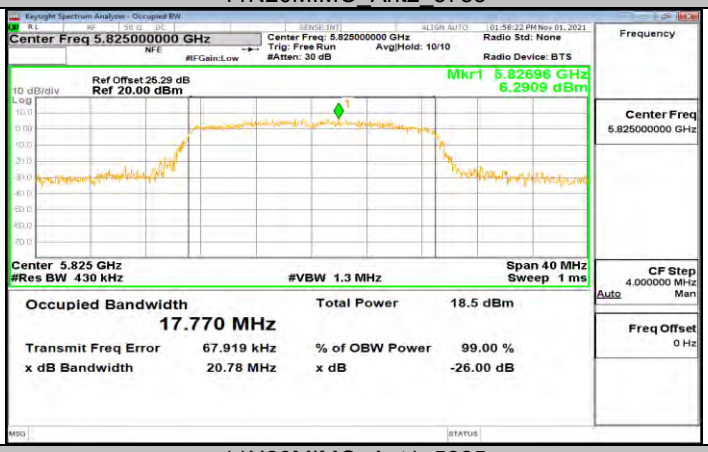

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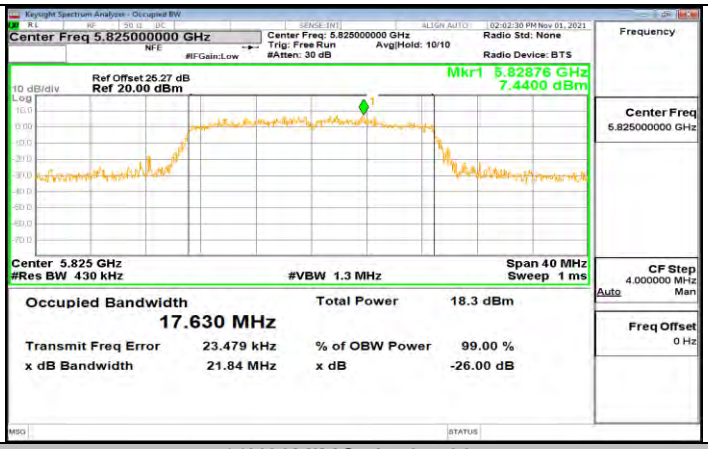

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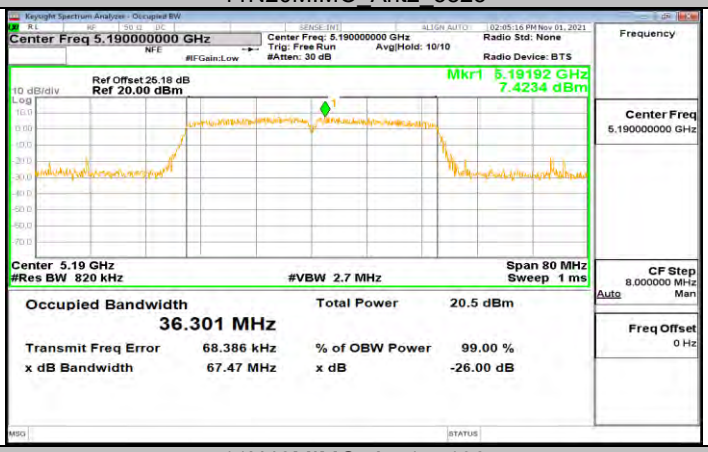

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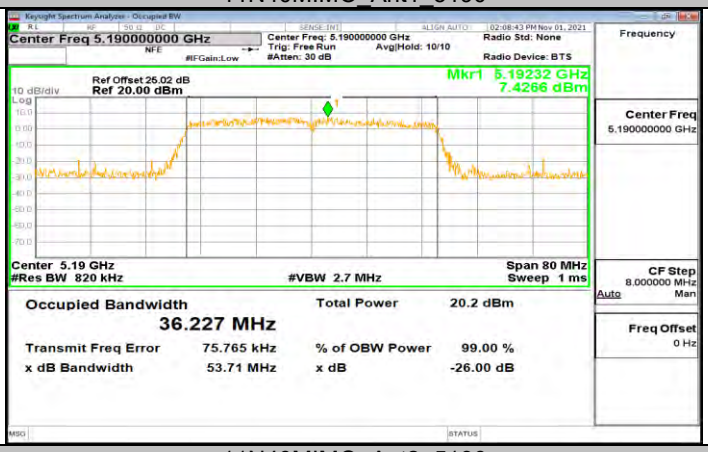

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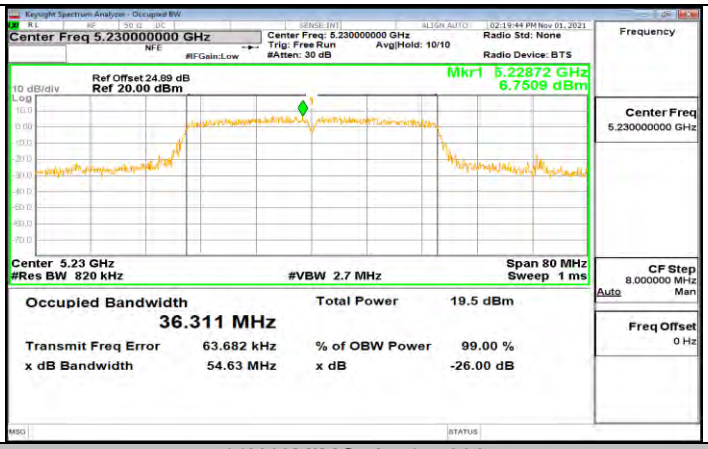

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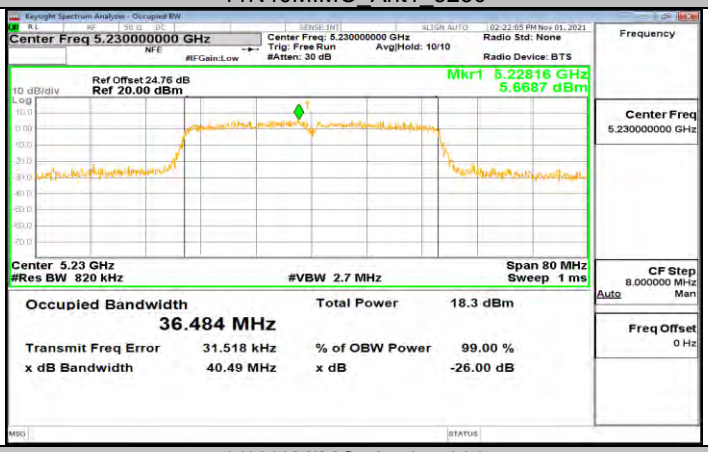

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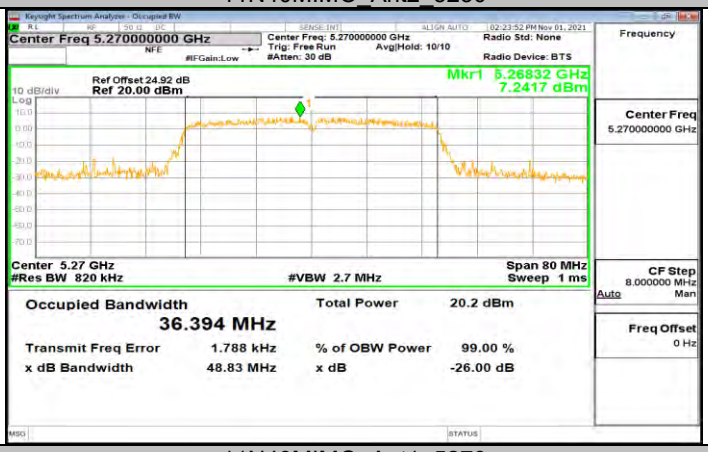

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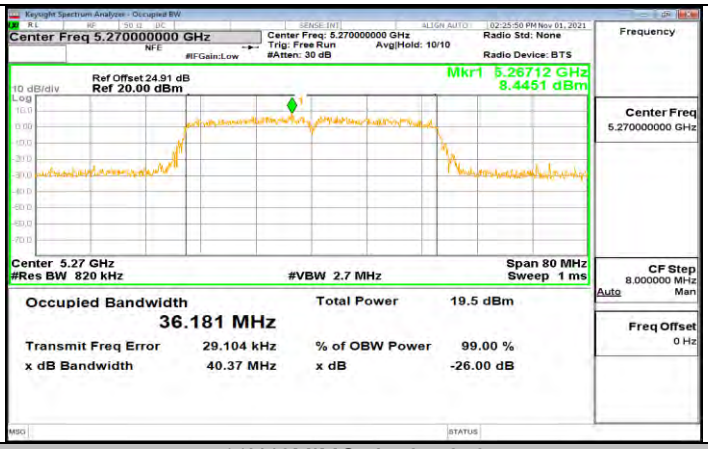

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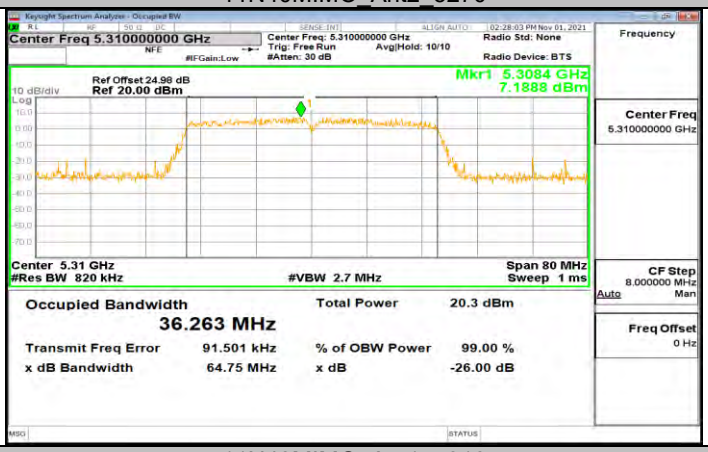
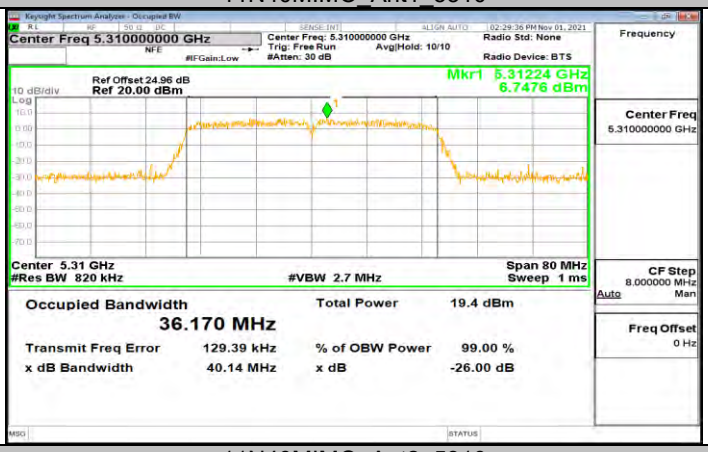
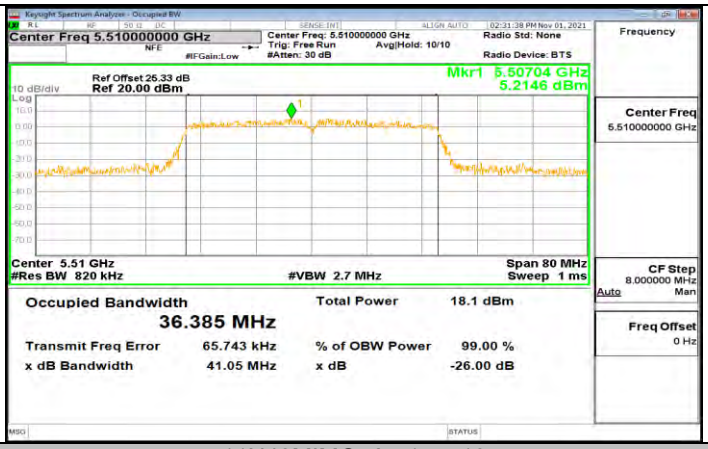


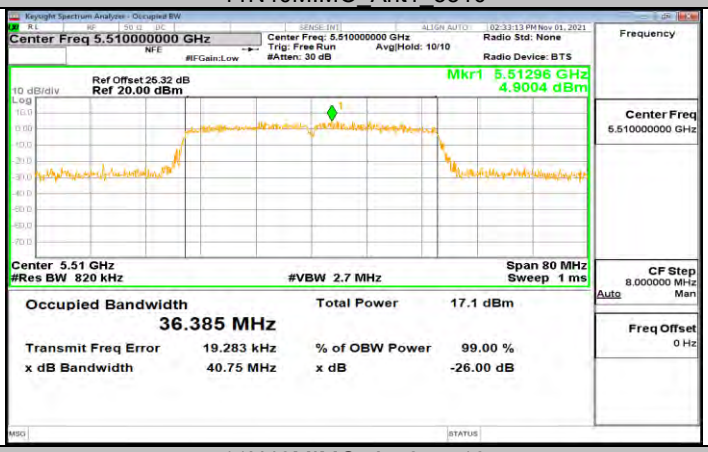
11N40MIMO_Ant1_5310



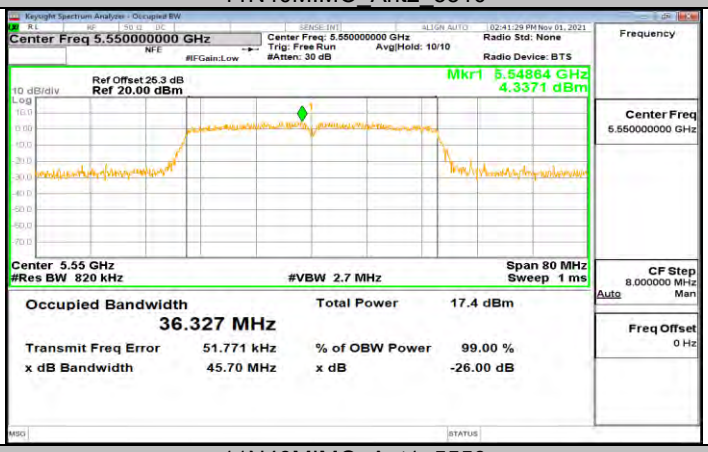
11N40MIMO_Ant2_5310



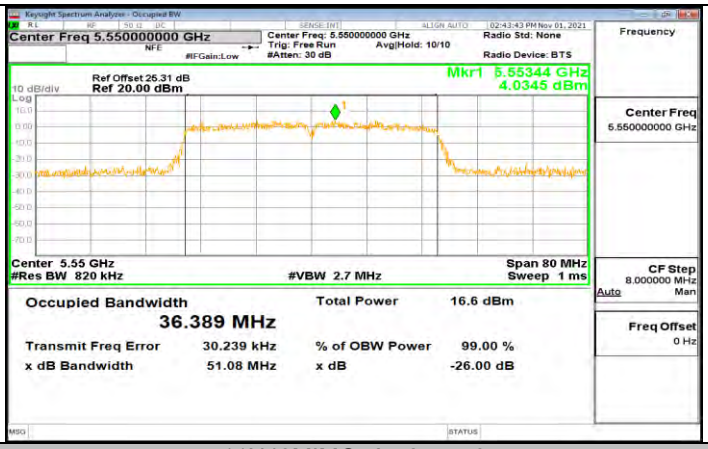
11N40MIMO_Ant1_5510



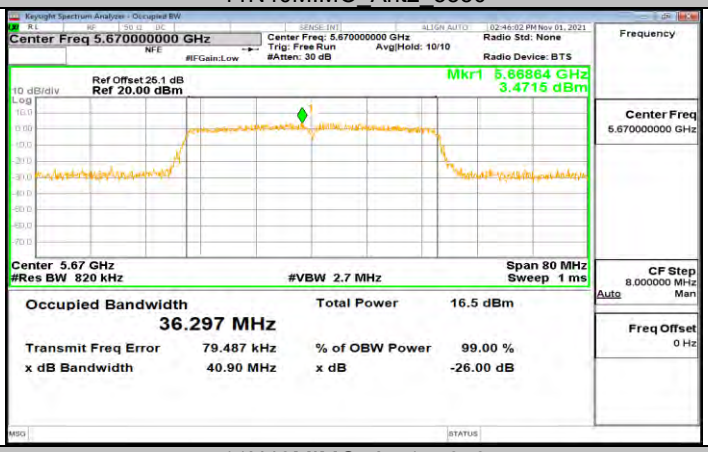
11N40MIMO_Ant2_5510



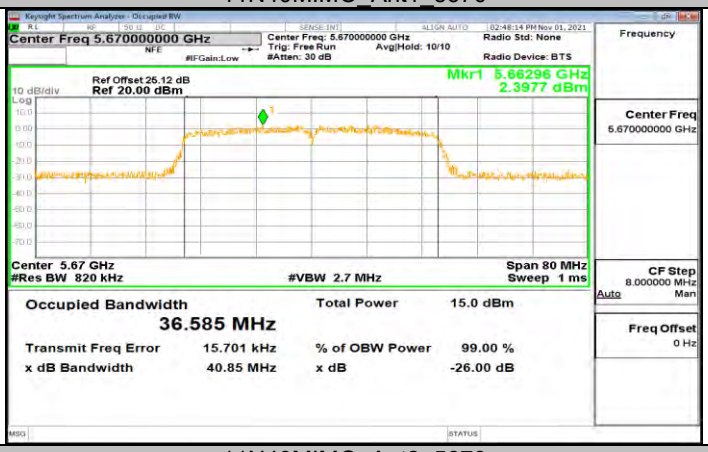
11N40MIMO_Ant1_5550



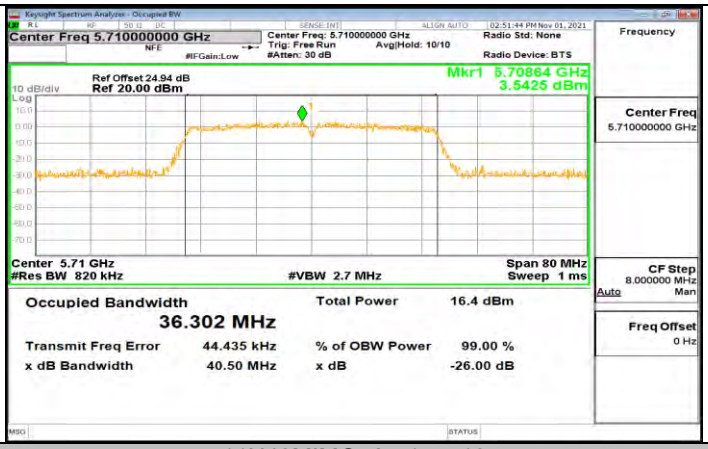
11N40MIMO_Ant2_5550



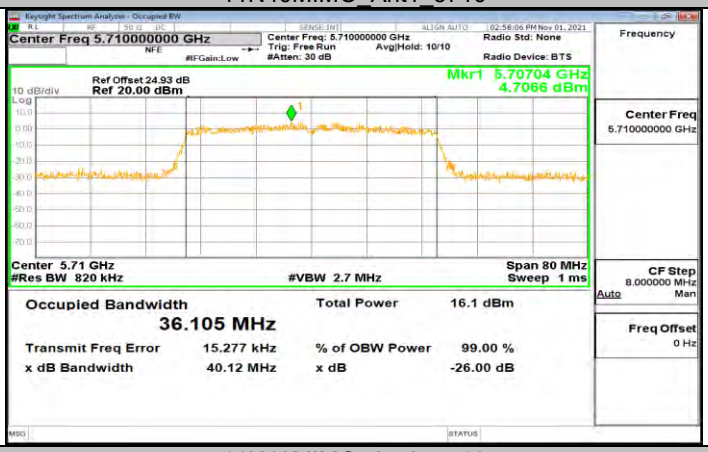
11N40MIMO_Ant1_5670



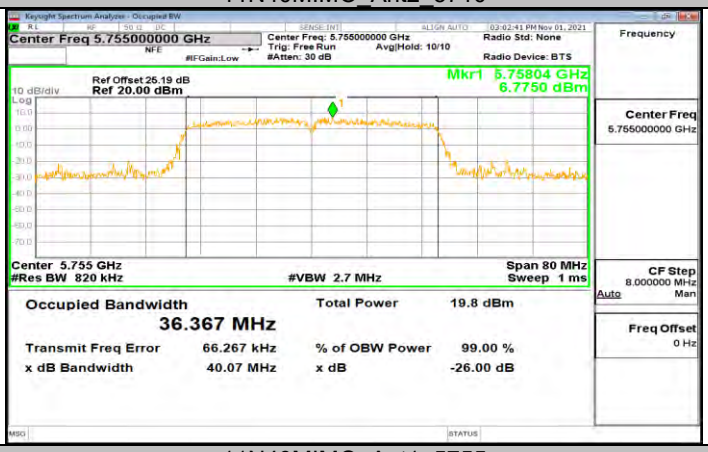
11N40MIMO_Ant2_5670



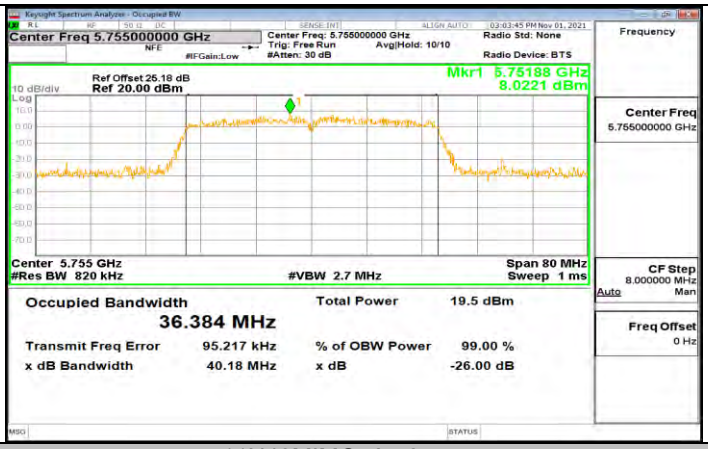
11N40MIMO_Ant1_5710



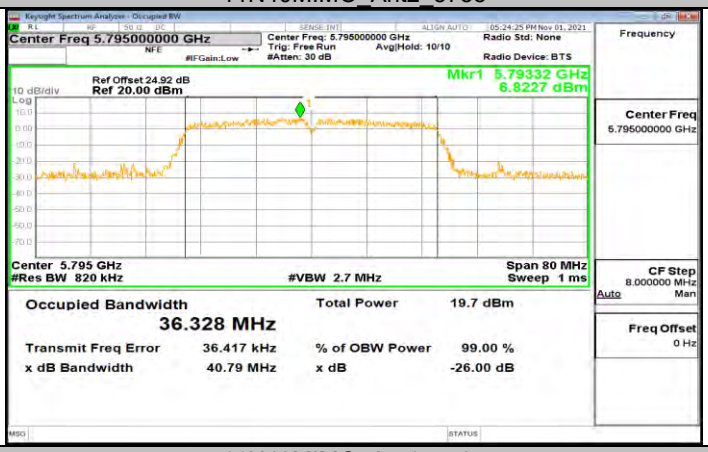
11N40MIMO_Ant2_5710



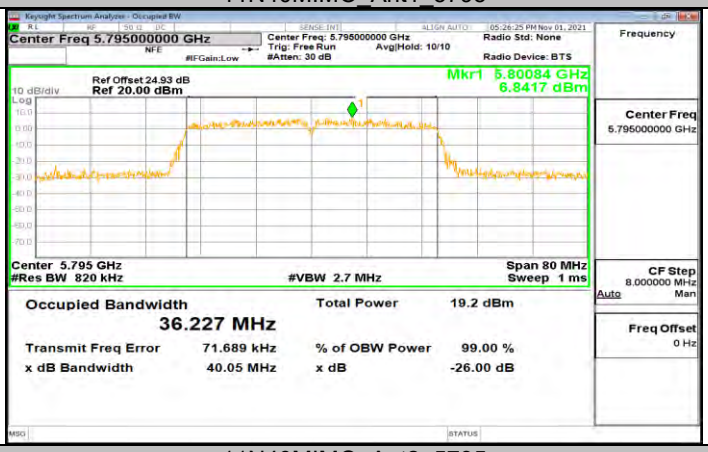
11N40MIMO_Ant1_5755



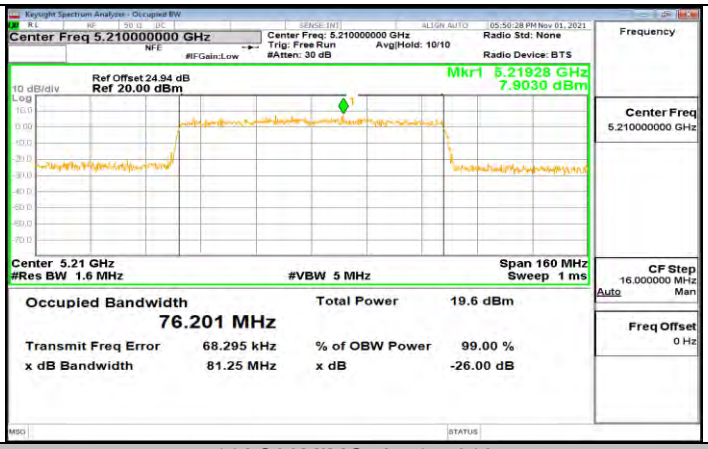
11N40MIMO_Ant2_5755



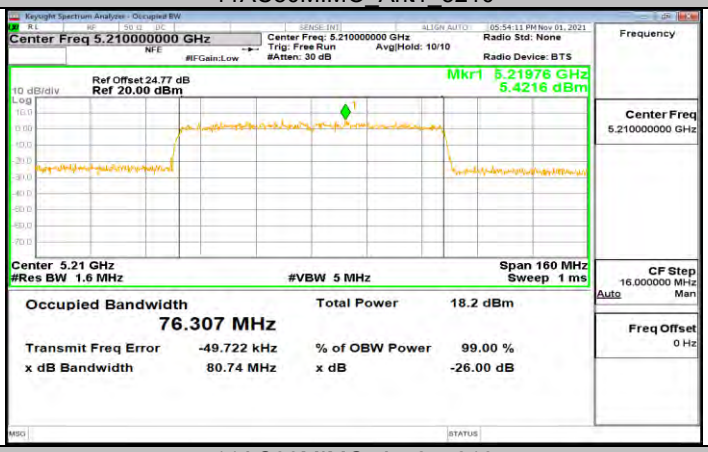
11N40MIMO_Ant1_5795



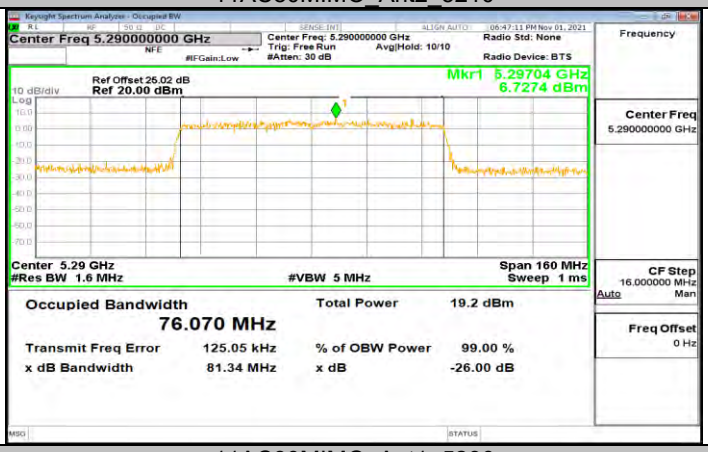
11N40MIMO_Ant2_5795



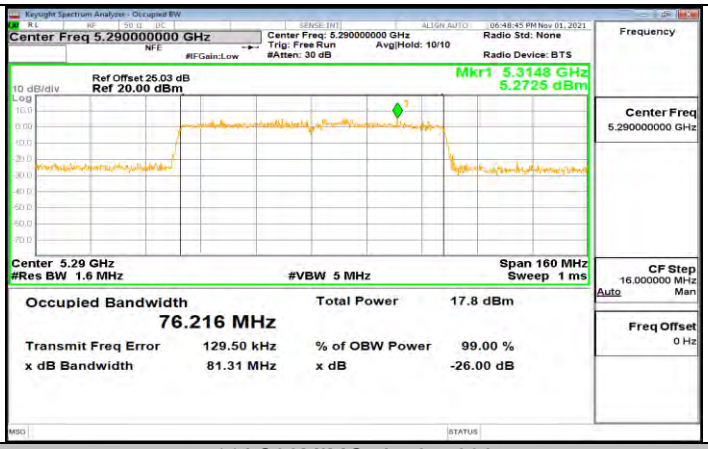
11AC80MIMO_Ant1_5210



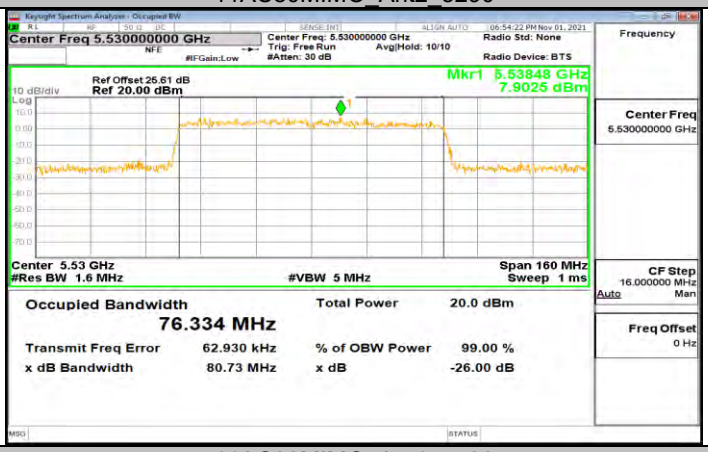
11AC80MIMO_Ant2_5210



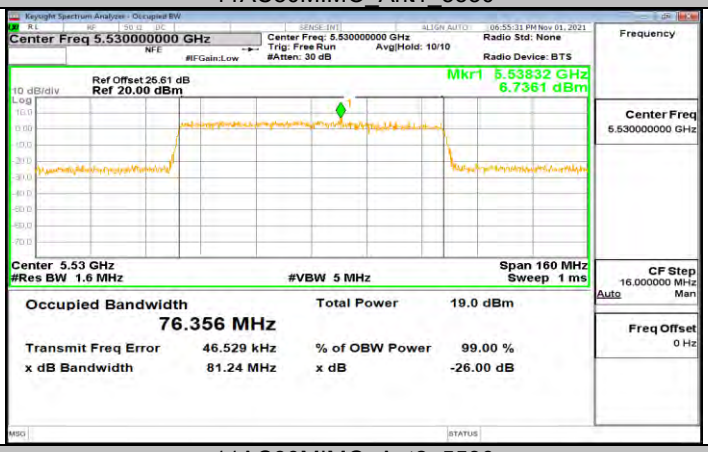
11AC80MIMO_Ant1_5290



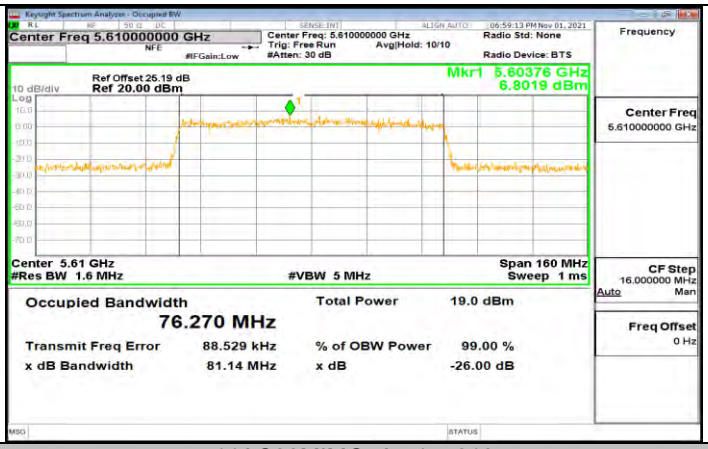
11AC80MIMO_Ant2_5290



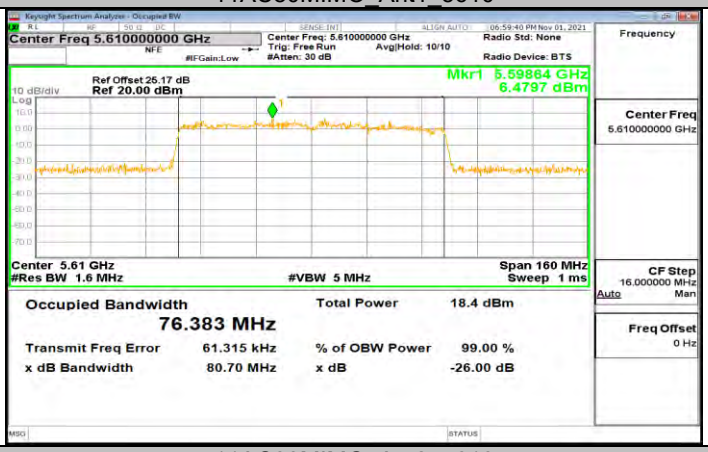
11AC80MIMO_Ant1_5530



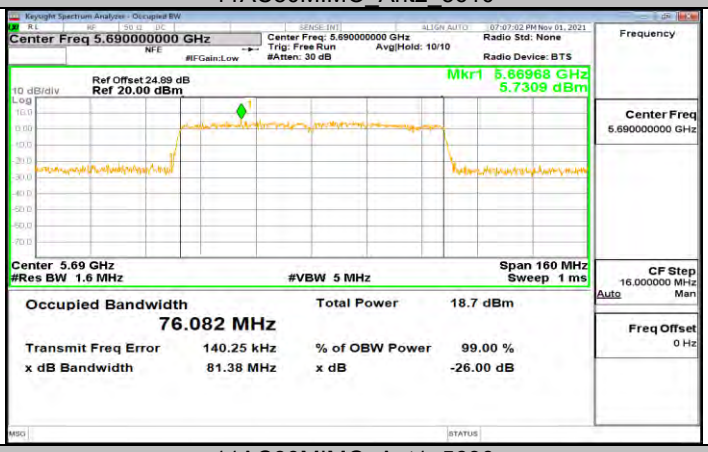
11AC80MIMO_Ant2_5530



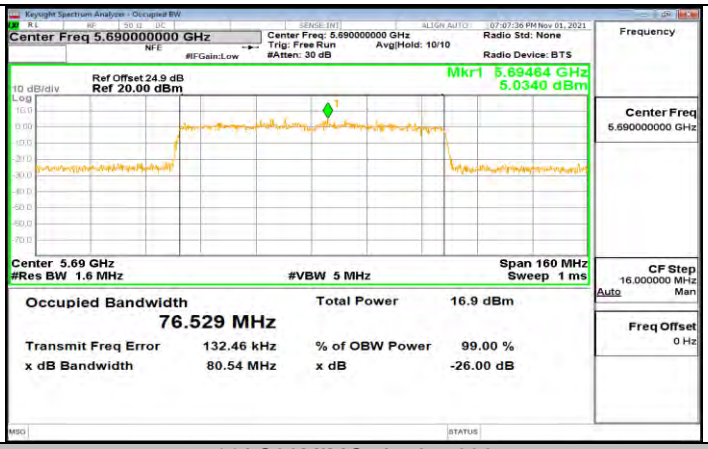
11AC80MIMO_Ant1_5610



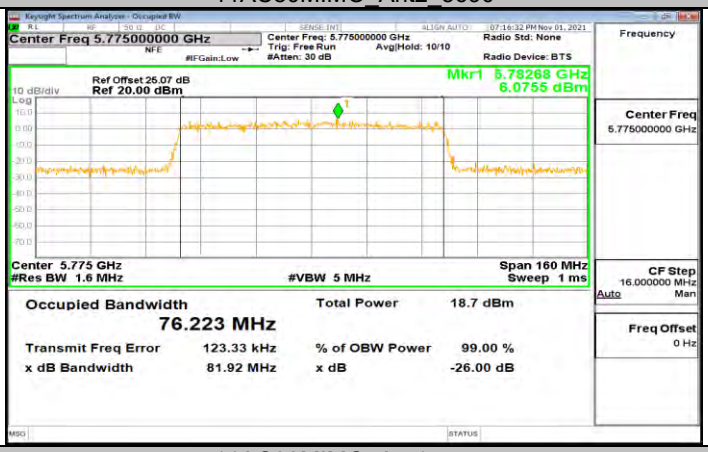
11AC80MIMO_Ant2_5610



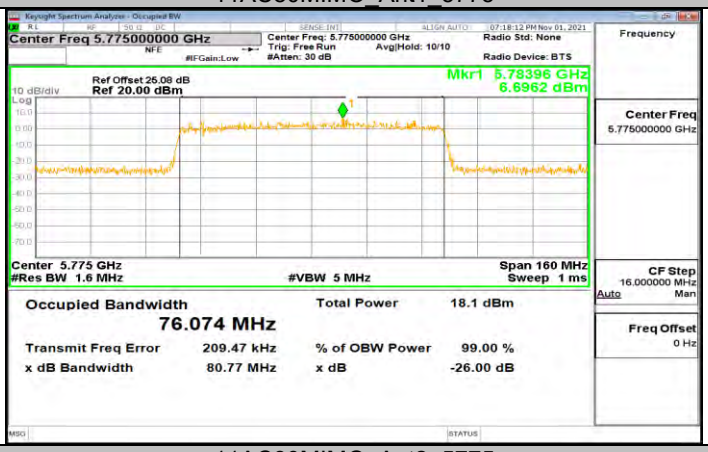
11AC80MIMO_Ant1_5690



11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

12.3. Appendix A3: Min Emission Bandwidth

12.3.1. Test Result

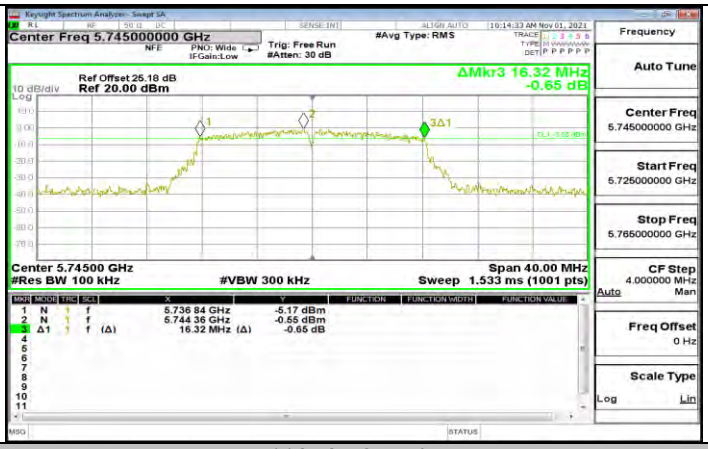
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720_UNII-3	3.16	5725	5728.160	0.5	PASS
	Ant2	5720_UNII-3	3.16	5725	5728.160	0.5	PASS
	Ant1	5745	16.280	5736.840	5753.120	0.5	PASS
	Ant2	5745	16.320	5736.840	5753.160	0.5	PASS
	Ant1	5785	15.800	5777.080	5792.880	0.5	PASS
	Ant2	5785	15.800	5776.840	5792.640	0.5	PASS
	Ant1	5825	16.320	5816.840	5833.160	0.5	PASS
	Ant2	5825	16.320	5816.840	5833.160	0.5	PASS
11N20MIMO	Ant1	5720_UNII-3	3.8	5725	5728.800	0.5	PASS
	Ant2	5720_UNII-3	3.8	5725	5728.800	0.5	PASS
	Ant1	5745	16.640	5736.240	5752.880	0.5	PASS
	Ant2	5745	17.160	5736.600	5753.760	0.5	PASS
	Ant1	5785	17.160	5776.240	5793.400	0.5	PASS
	Ant2	5785	17.280	5776.240	5793.520	0.5	PASS
	Ant1	5825	17.560	5816.240	5833.800	0.5	PASS
	Ant2	5825	11.960	5818.120	5830.080	0.5	PASS
11N40MIMO	Ant1	5710_UNII-3	2.52	5725	5727.520	0.5	PASS
	Ant2	5710_UNII-3	2.52	5725	5727.520	0.5	PASS
	Ant1	5755	36.240	5736.920	5773.160	0.5	PASS
	Ant2	5755	35.680	5737.240	5772.920	0.5	PASS
	Ant1	5795	36.000	5776.840	5812.840	0.5	PASS
	Ant2	5795	36.320	5776.840	5813.160	0.5	PASS
11AC80MIMO	Ant1	5690_UNII-3	2.6	5725	5727.600	0.5	PASS
	Ant2	5690_UNII-3	3.08	5725	5728.080	0.5	PASS
	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
	Ant2	5775	75.360	5737.240	5812.600	0.5	PASS

12.3.2. Test Graphs

11A_Ant1_5720_UNII-3

11A_Ant2_5720_UNII-3

11A_Ant1_5745



11A_Ant2_5745

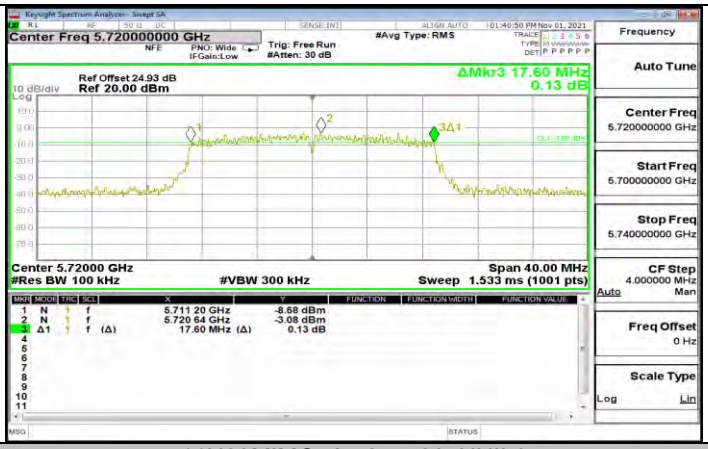
11A_Ant1_5785

11A_Ant2_5785

11A_Ant1_5825

11A_Ant2_5825

11N20MIMO_Ant1_5720_UNII-3



11N20MIMO_Ant2_5720_UNII-3

11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745

11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785

11N20MIMO_Ant1_5825

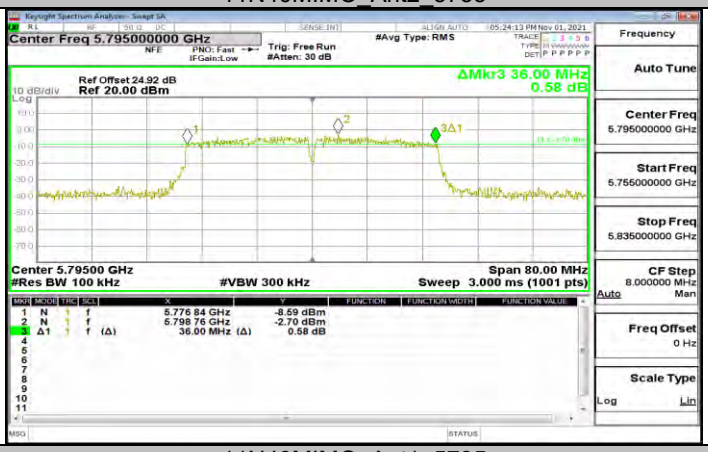
11N20MIMO_Ant2_5825

11N40MIMO_Ant1_5710_UNII-3

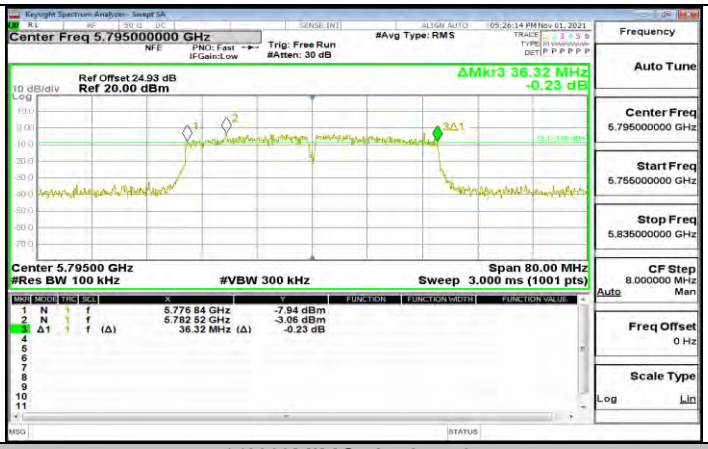
11N40MIMO_Ant2_5710_UNII-3

11N40MIMO_Ant1_5755

11N40MIMO_Ant2_5755



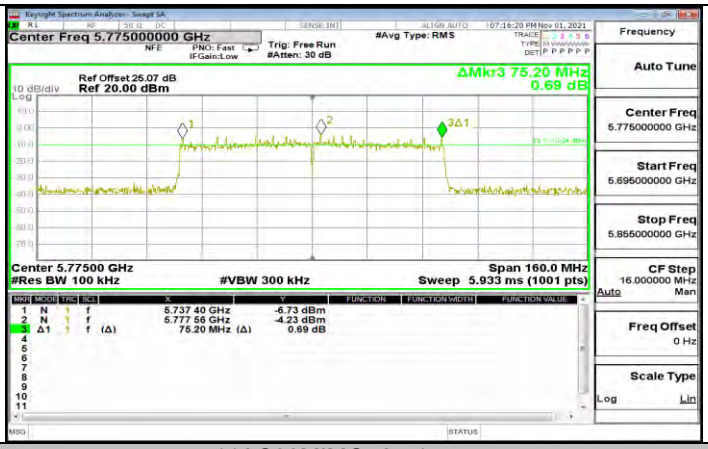
11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795

11AC80MIMO_Ant1_5690_UNII-3

11AC80MIMO_Ant2_5690_UNII-3



11AC80MIMO_Ant1_5775

11AC80MIMO_Ant2_5775

12.4. Appendix B: Maximum Average Conducted Output Power

12.4.1. Test Result

Mode	Frequency (MHz)	Average Power (dBm)			Directional gain (dBi)	FCC Limit (dBm)	EIRP			ISED EIRP Limit (dBm)
		ANT1 (dBm)	ANT2 (dBm)	Total			ANT1 (dBm)	ANT2 (dBm)	Total	
802.11a	5180	14.25	13.77	/	0.00	24.00	16.98	16.5	/	22.21
	5200	14.22	13.54	/	0.00	24.00	16.95	16.27	/	22.21
	5240	14.23	13.66	/	0.00	24.00	16.96	16.39	/	22.21
	5260	14.55	13.27	/	0.00	24.00	17.28	16.00	/	23.21
	5280	14.15	13.03	/	0.00	24.00	16.88	15.76	/	23.21
	5320	14.16	13.28	/	0.00	24.00	16.89	16.01	/	23.21
	5500	15.16	14.37	/	0.00	24.00	17.89	17.10	/	23.21
	5580	15.29	14.16	/	0.00	24.00	18.02	16.89	/	23.21
	5700	14.32	13.72	/	0.00	24.00	17.08	16.45	/	23.21
	5720-2C	12.97	12.40	/	0.00	24.00	15.70	15.13	/	23.21
	5720-3	5.03	4.84	/	0.00	30.00	7.76	7.57	/	29.00
	5745	14.20	13.40	/	0.00	30.00	16.93	16.13	/	30.00
	5785	14.01	13.36	/	0.00	30.00	16.74	16.09	/	30.00
	5825	13.54	13.10	/	0.00	30.00	16.27	15.83	/	30.00
802.11n 20M	5180	11.48	10.37	13.97	2.73	24.00	/	/	16.70	22.50
	5200	11.23	10.15	13.73	2.73	24.00	/	/	16.46	22.50
	5240	11.31	10.06	13.74	2.73	24.00	/	/	16.47	22.50
	5260	14.84	14.01	17.46	2.73	24.00	/	/	20.19	23.50
	5280	14.78	13.92	17.38	2.73	24.00	/	/	20.11	23.50
	5320	14.83	14.01	17.45	2.73	24.00	/	/	20.18	23.50
	5500	12.02	11.25	14.66	2.73	24.00	/	/	17.39	23.50
	5580	12.38	11.36	14.91	2.73	24.00	/	/	17.64	23.50
	5700	11.09	10.73	13.92	2.73	24.00	/	/	16.65	23.50
	5720-2C	10.05	9.63	12.86	2.73	25.00	/	/	15.59	23.50
	5720-3	2.93	2.43	5.70	2.73	29.00	/	/	8.43	29.00
	5745	14.23	14.10	17.18	2.73	30.00	/	/	19.91	30.00
	5785	14.10	13.60	16.87	2.73	30.00	/	/	19.60	30.00
	5825	13.95	13.58	16.78	2.73	30.00	/	/	19.51	30.00
802.11n 40M	5190	14.59	13.26	16.99	2.73	24.00	/	/	19.72	23.00
	5230	14.27	12.90	16.65	2.73	24.00	/	/	19.38	23.00
	5270	15.17	14.00	17.63	2.73	24.00	/	/	20.36	24.00
	5310	15.25	13.98	17.67	2.73	24.00	/	/	20.40	24.00
	5510	12.23	11.17	14.74	2.73	24.00	/	/	17.47	24.00

	5550	12.20	11.10	14.70	2.73	24.00	/	/	17.43	24.00
	5670	11.29	9.72	13.59	2.73	24.00	/	/	16.32	24.00
	5710-2C	10.95	10.27	13.63	2.73	25.00	/	/	16.36	24.00
	5710-3	-1.26	-1.93	1.43	2.73	29.00	/	/	4.16	29.00
	5755	14.85	14.01	17.46	2.73	30.00	/	/	20.19	30.00
	5795	14.43	13.88	17.17	2.73	30.00	/	/	19.90	30.00
802.11ac 80M	5210	12.93	11.16	15.14	2.73	24.00	/	/	17.87	23.00
	5290	12.40	10.85	14.70	2.73	24.00	/	/	17.43	24.00
	5530	9.40	8.61	12.03	2.73	24.00	/	/	14.76	24.00
	5610	8.73	7.49	11.16	2.73	24.00	/	/	13.89	24.00
	5690-2C	7.56	6.07	9.89	2.73	25.00	/	/	12.62	24.00
	5690-3	-7.12	-8.71	-4.83	2.73	29.00	/	/	-2.10	24.00
	5775	11.83	11.29	14.58	2.73	30.00	/	/	17.31	30.00

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

12.5. Appendix C: Maximum Power Spectral Density

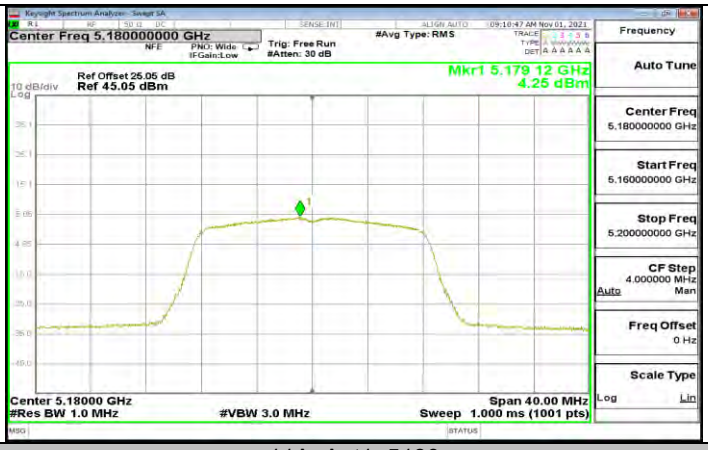
12.5.1. Test Result

Mode	Frequency (MHz)	PSD 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)			Directional gain (dBi)	FCC Limit 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)	EIRP			ISED EIRP Limit 5150-5725MHz (dBm/MHz) 5725-5850MHz (dBm/500kHz)
		ANT1	ANT2	Total			ANT1	ANT2	Total	
802.11a 20	5180	4.25	3.69	/	0.00	11.00	6.98	6.42	/	10.00
	5200	4.04	3.28	/	0.00	11.00	6.77	6.01	/	10.00
	5240	4.10	3.55	/	0.00	11.00	6.83	6.28	/	10.00
	5260	4.77	3.08	/	0.00	11.00	7.50	5.81	/	11.00
	5280	3.96	3.08	/	0.00	11.00	6.69	5.81	/	11.00
	5320	4.05	3.02	/	0.00	11.00	6.78	5.75	/	11.00
	5500	5.19	4.25	/	0.00	11.00	7.92	6.98	/	11.00
	5580	5.36	4.00	/	0.00	11.00	8.09	6.73	/	11.00
	5700	4.20	3.42	/	0.00	11.00	6.93	6.15	/	11.00
	5720-2C	3.82	3.33	/	0.00	11.00	6.55	6.06	/	12.00
	5720-3	-1.27	-1.48	/	0.00	30.00	1.46	1.25	/	29.00
	5745	1.04	0.45	/	0.00	30.00	3.77	3.18	/	30.00
	5785	0.84	0.23	/	0.00	30.00	3.57	2.96	/	30.00
	5825	0.56	0.25	/	0.00	30.00	3.29	2.98	/	30.00
802.11n HT20	5180	1.14	0.52	3.85	5.74	11.00	/	/	9.59	10.00
	5200	1.21	-0.03	3.64	5.74	11.00	/	/	9.38	10.00
	5240	0.86	-0.14	3.40	5.74	11.00	/	/	9.14	10.00
	5260	4.69	4.11	7.42	5.74	11.00	/	/	13.16	11.00
	5280	4.55	3.86	7.23	5.74	11.00	/	/	12.97	11.00
	5320	4.77	3.67	7.27	5.74	11.00	/	/	13.01	11.00
	5500	1.73	1.52	4.64	5.74	11.00	/	/	10.38	11.00
	5580	2.19	1.28	4.77	5.74	11.00	/	/	10.51	11.00
	5700	0.86	0.31	3.60	5.74	11.00	/	/	9.34	11.00
	5720-2C	0.76	0.26	3.53	5.74	12.00	/	/	9.27	12.00
	5720-3	-4.04	-4.37	-1.19	5.74	29.00	/	/	4.55	29.00
	5745	0.79	0.74	3.78	5.74	30.00	/	/	9.52	30.00
	5785	1.24	0.65	3.97	5.74	30.00	/	/	9.71	30.00
	5825	0.75	0.44	3.61	5.74	30.00	/	/	9.35	30.00
802.11n HT40	5190	0.80	-0.17	3.35	5.74	11.00	/	/	9.09	10.00
	5230	0.53	-0.80	2.93	5.74	11.00	/	/	8.67	10.00
	5270	1.35	0.44	3.93	5.74	11.00	/	/	9.67	11.00
	5310	1.73	0.12	4.01	5.74	11.00	/	/	9.75	11.00
	5510	-1.63	-2.53	0.95	5.74	11.00	/	/	6.69	11.00
	5550	-1.63	-2.61	0.92	5.74	11.00	/	/	6.66	11.00

	5670	-2.57	-3.81	-0.14	5.74	11.00	/	/	5.6	11.00
	5710-2C	-2.46	-3.21	0.19	5.74	12.00	/	/	5.93	12.00
	5710-3	-7.89	-8.79	-5.31	5.74	29.00	/	/	0.43	29.00
	5755	-1.96	-2.70	0.70	5.74	30.00	/	/	6.44	30.00
	5795	-1.83	-2.79	0.73	5.74	30.00	/	/	6.47	30.00
802.11ac VHT80	5210	-4.18	-5.39	-1.73	5.74	11.00	/	/	4.01	10.00
	5290	-3.88	-5.97	-1.79	5.74	11.00	/	/	3.95	11.00
	5530	-8.03	-3.06	-1.86	5.74	11.00	/	/	3.88	11.00
	5610	-8.14	-9.41	-5.72	5.74	11.00	/	/	0.02	11.00
	5690-2C	-3.95	-10.36	-3.06	5.74	12.00	/	/	2.68	12.00
	5690-3	-9.62	-15.17	-8.55	5.74	29.00	/	/	-2.81	29.00
	5775	-7.31	-7.49	-4.39	5.74	30.00	/	/	1.35	30.00

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.

12.5.2. Test Graphs



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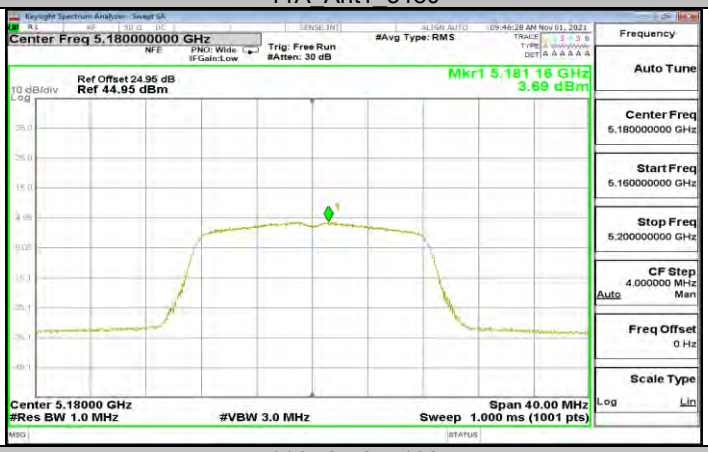

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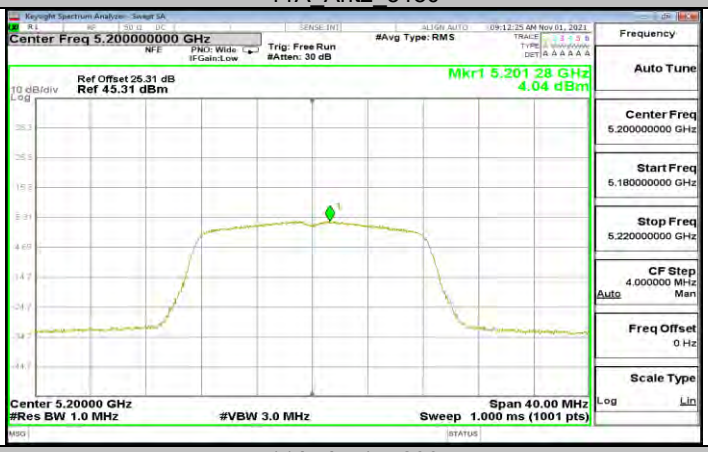

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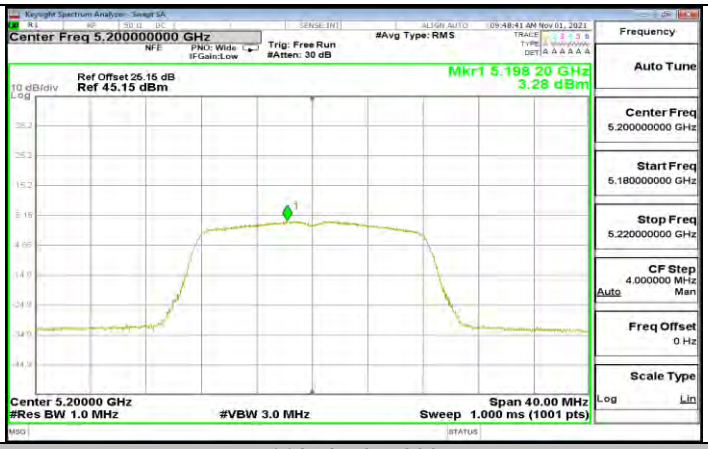

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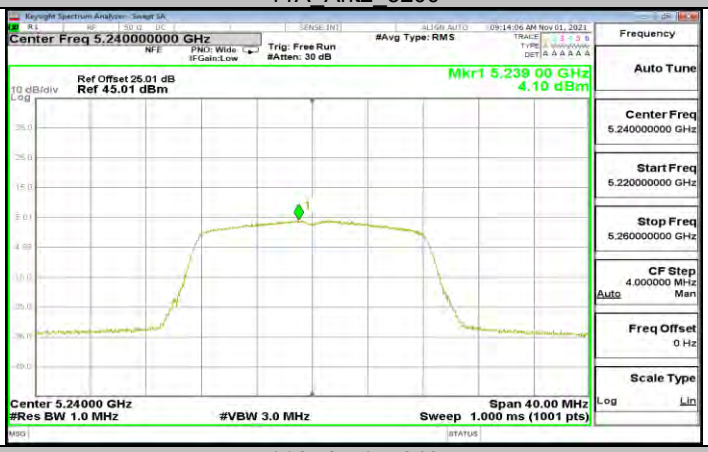

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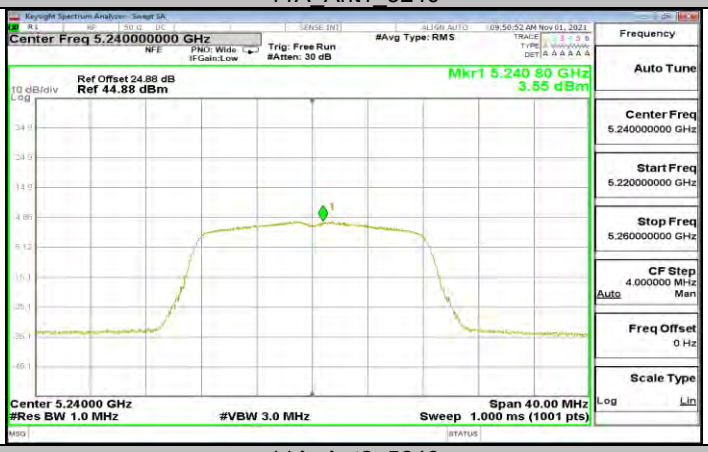

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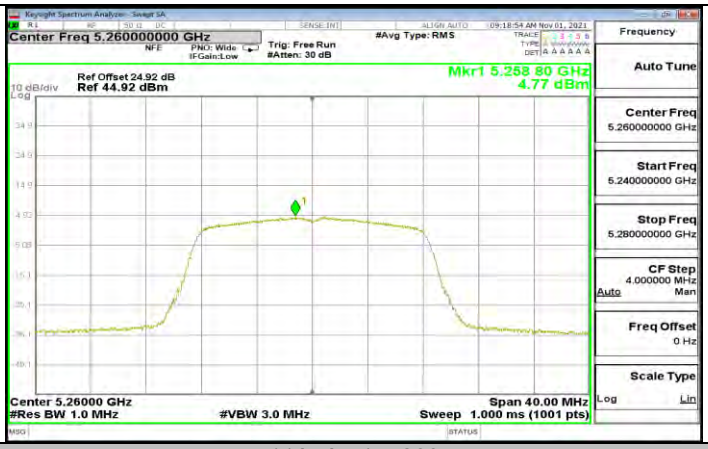

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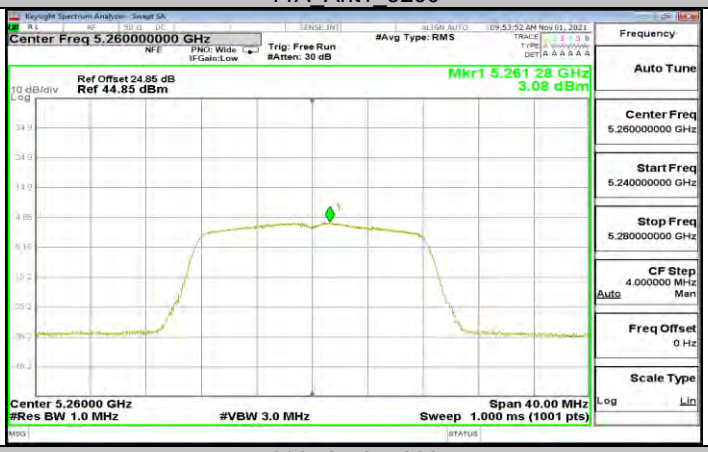

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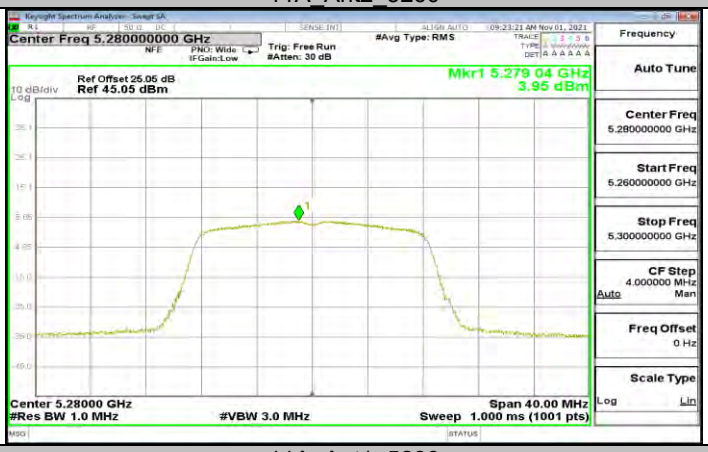

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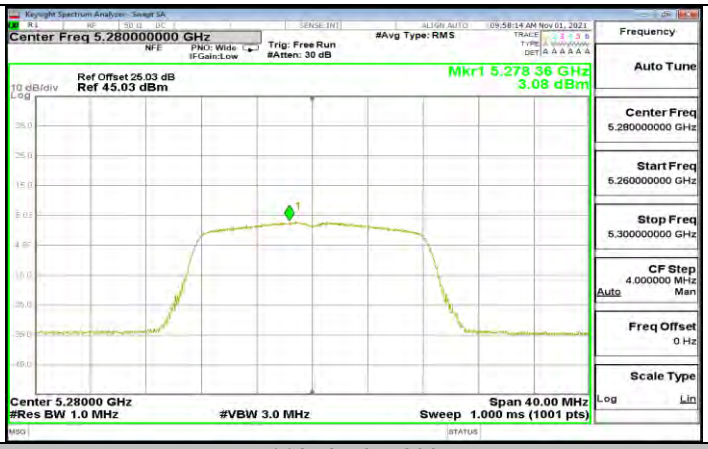

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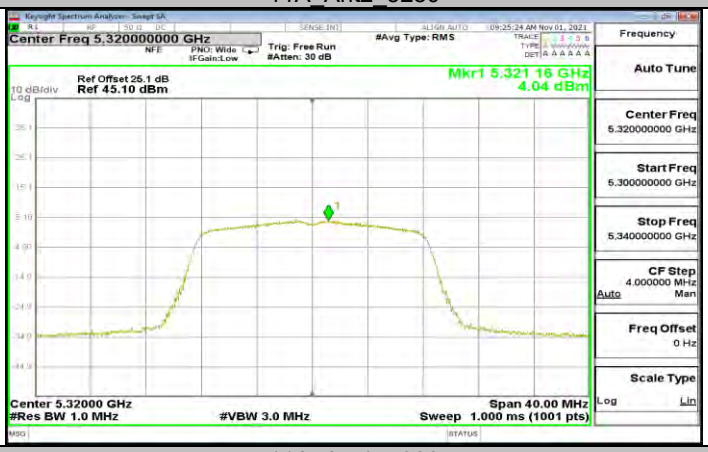

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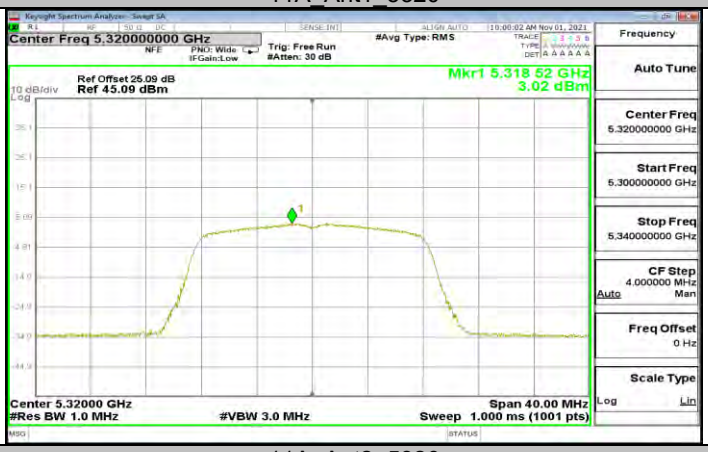

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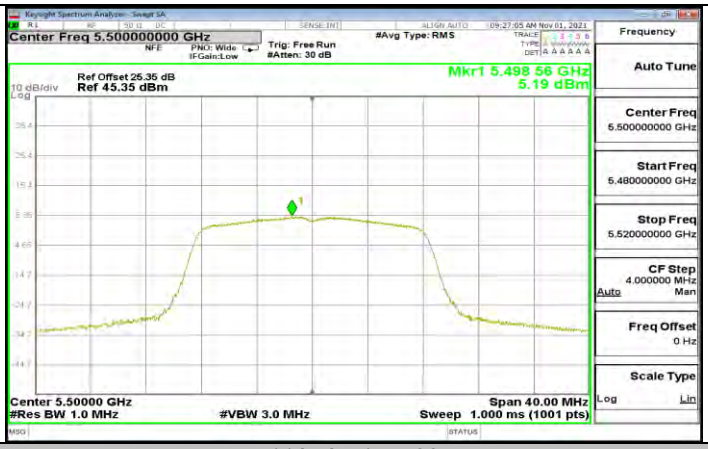

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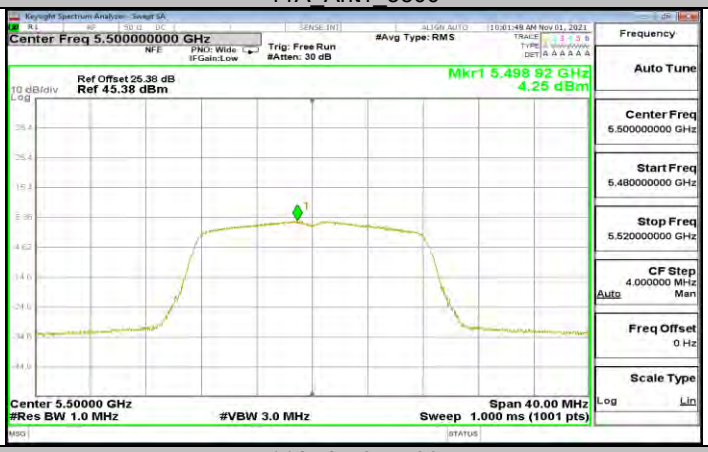

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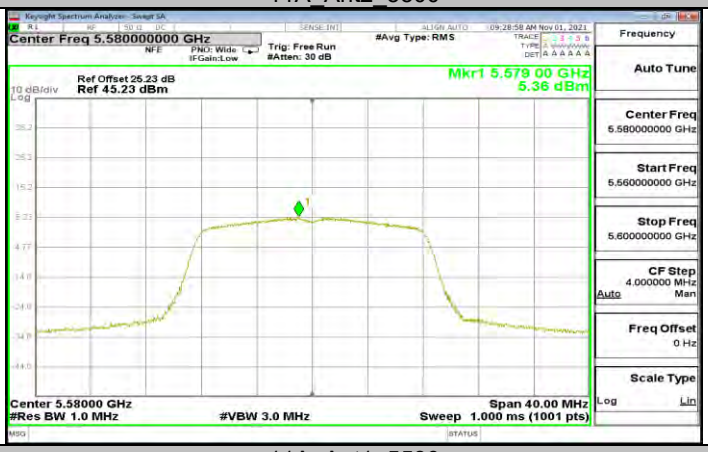

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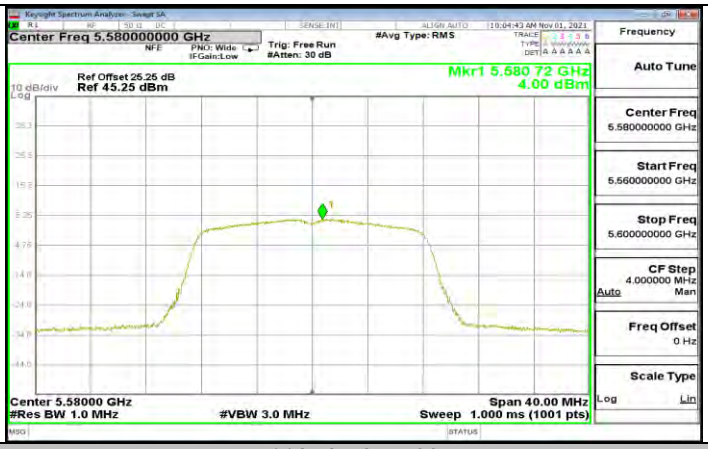

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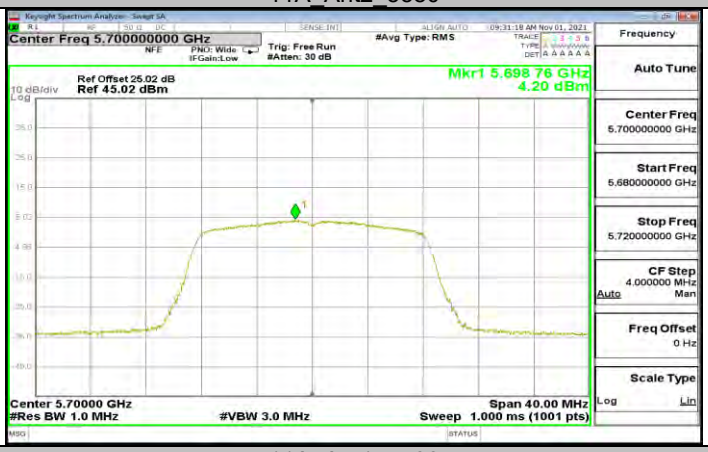

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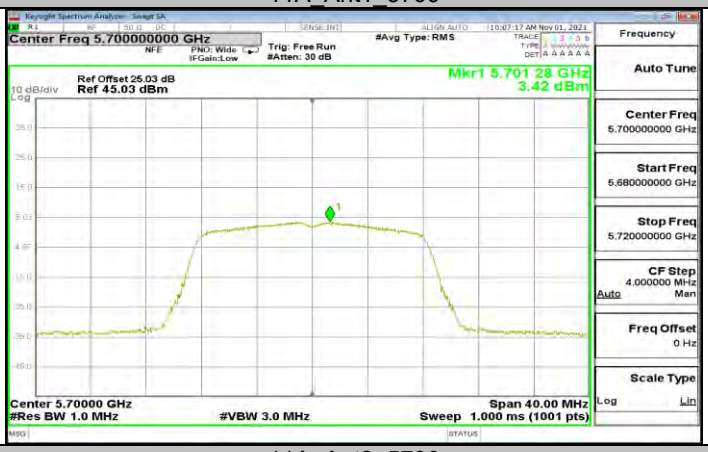

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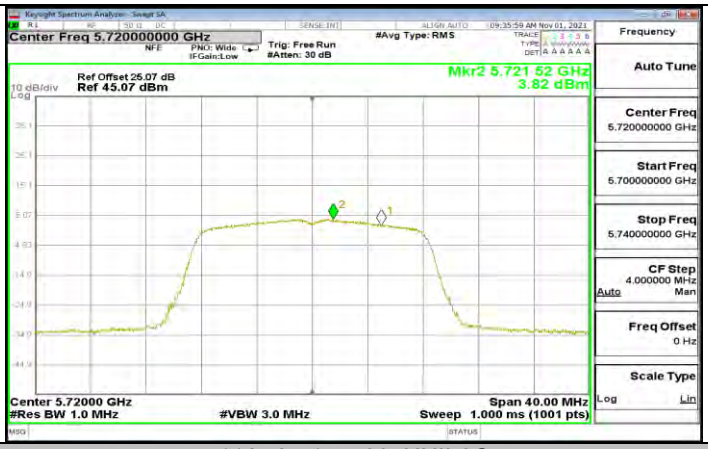

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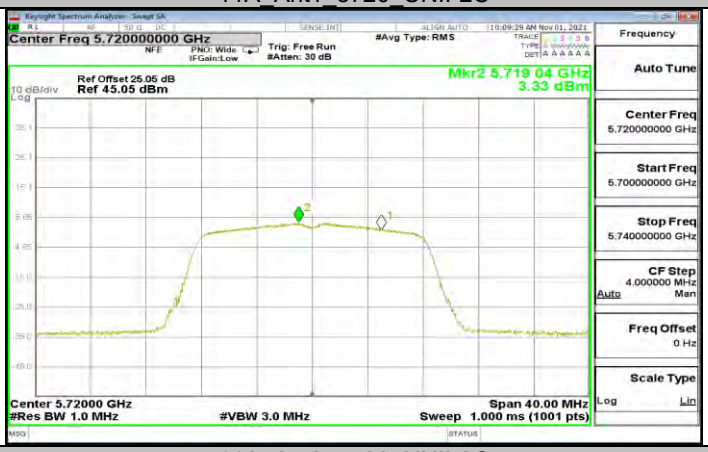

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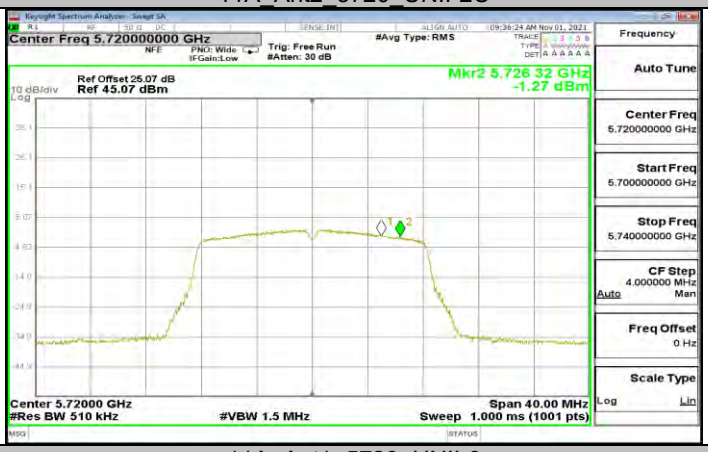

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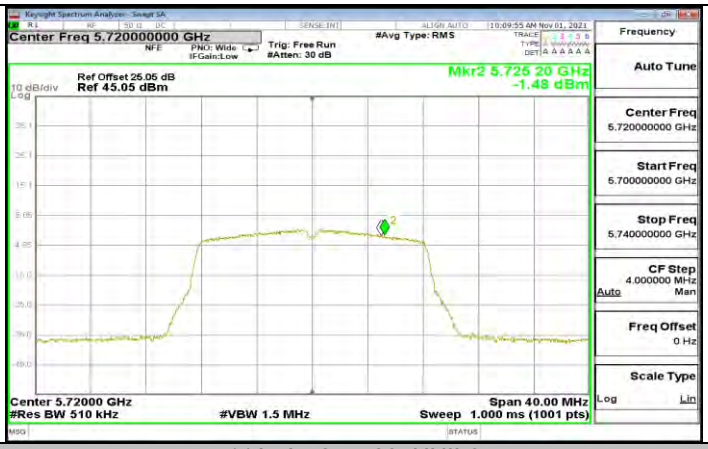

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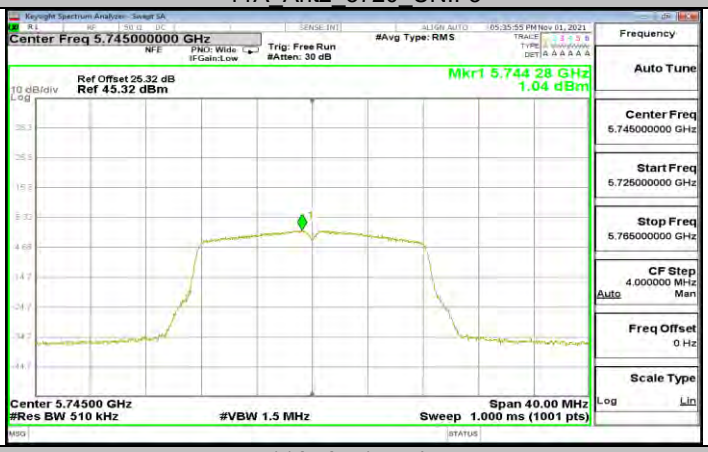

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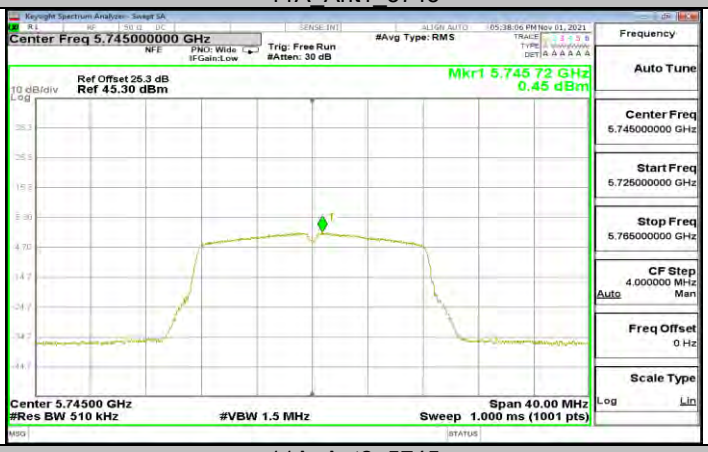
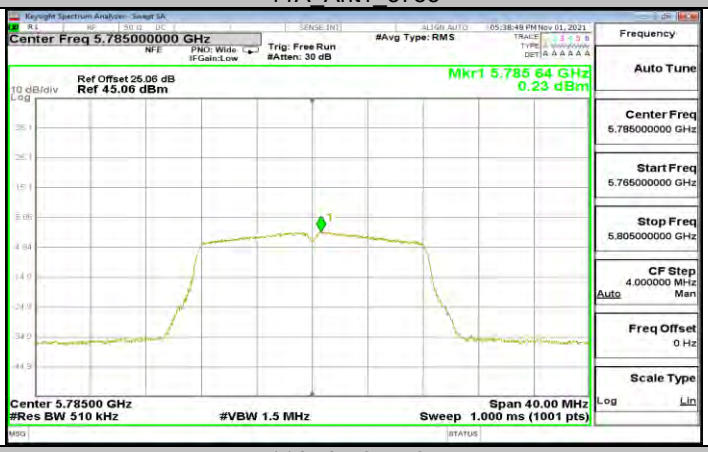


11A_Ant2_5745

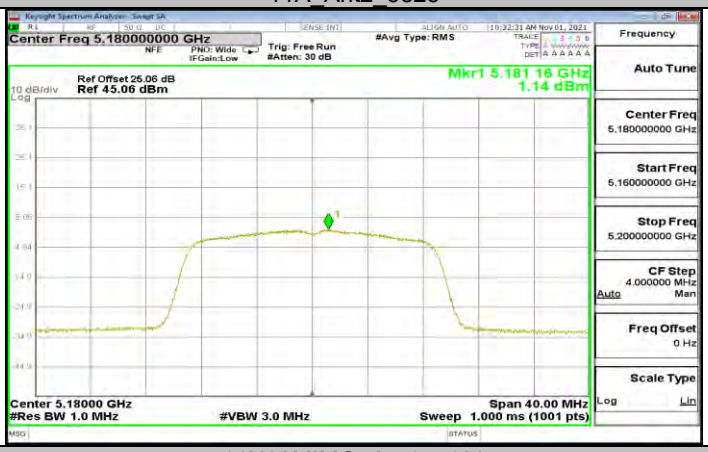
11A_Ant1_5785



11A_Ant2_5785

11A_Ant1_5825

11A_Ant2_5825



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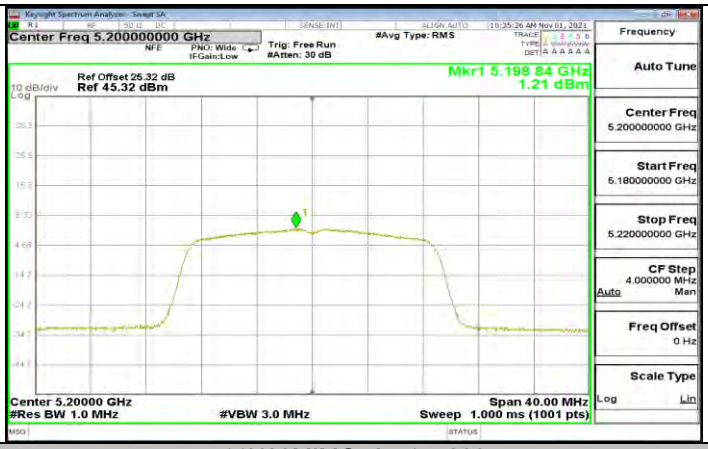

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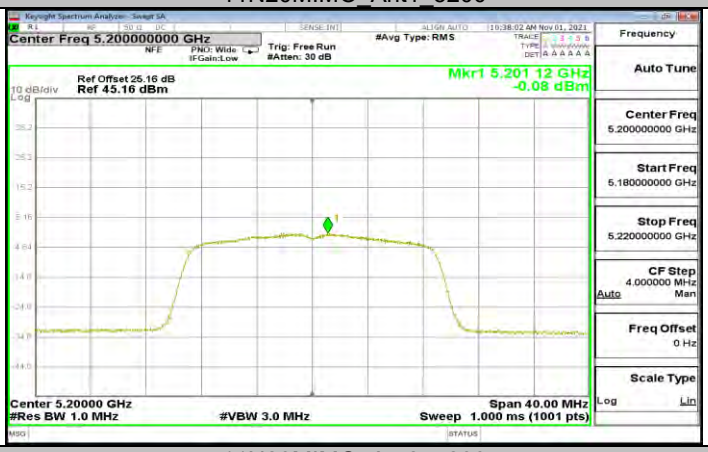

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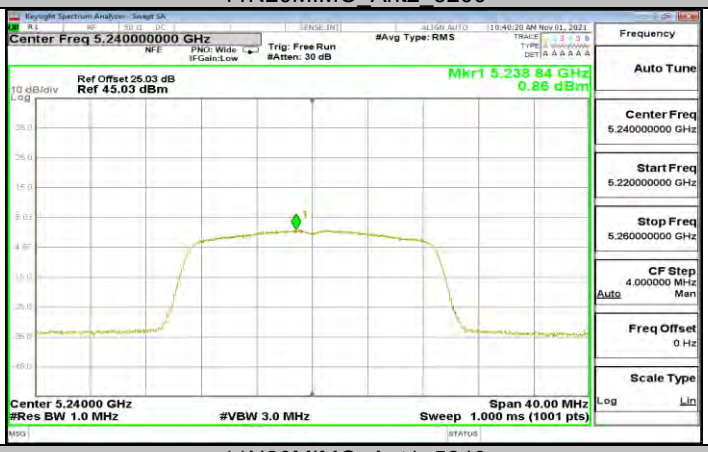

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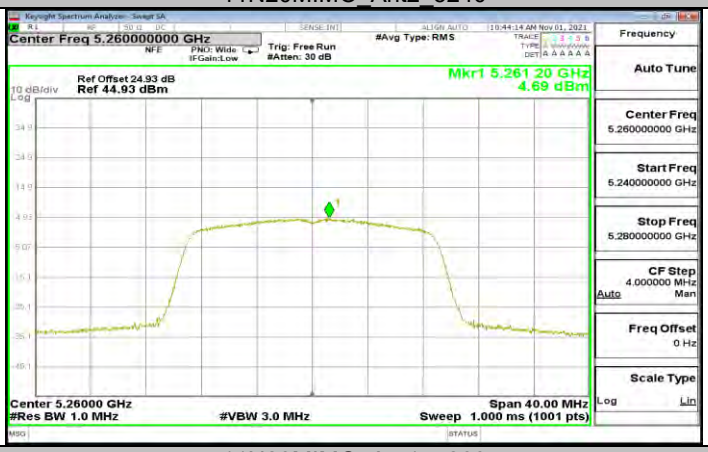

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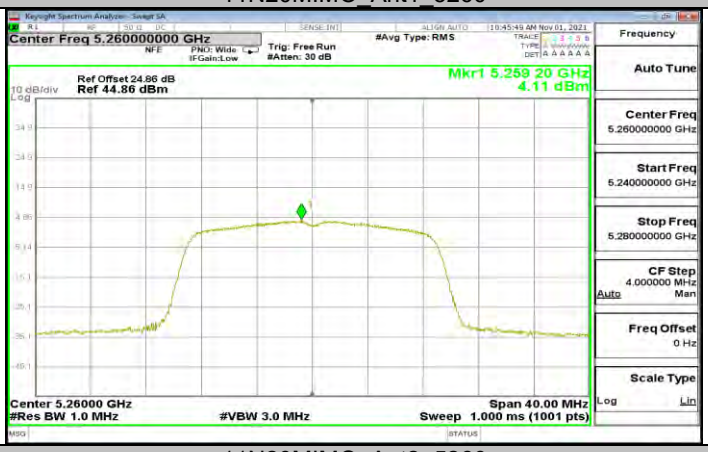

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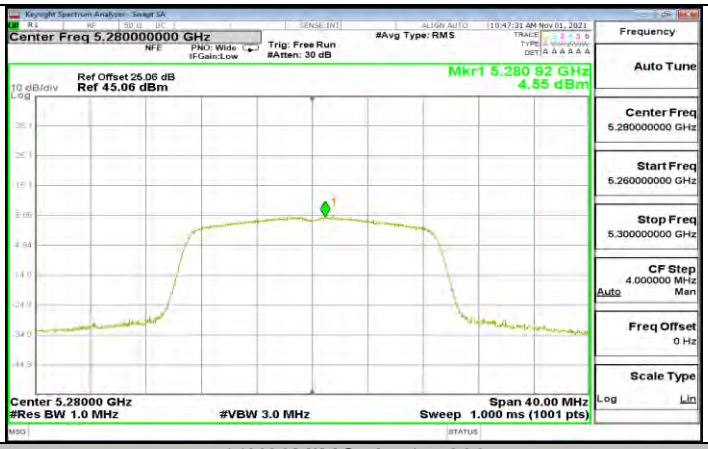

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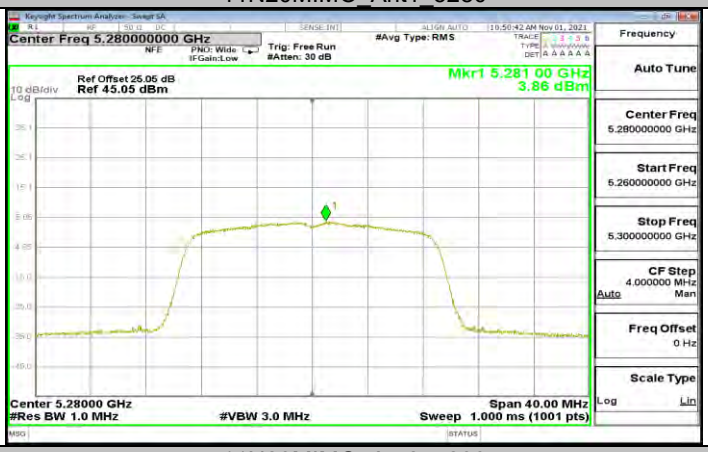

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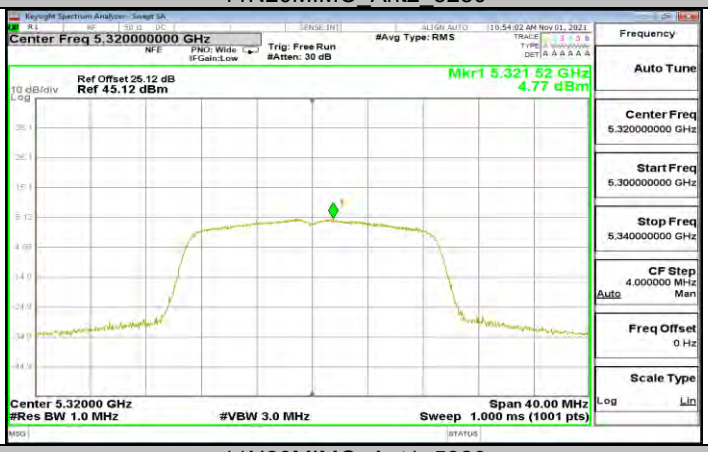

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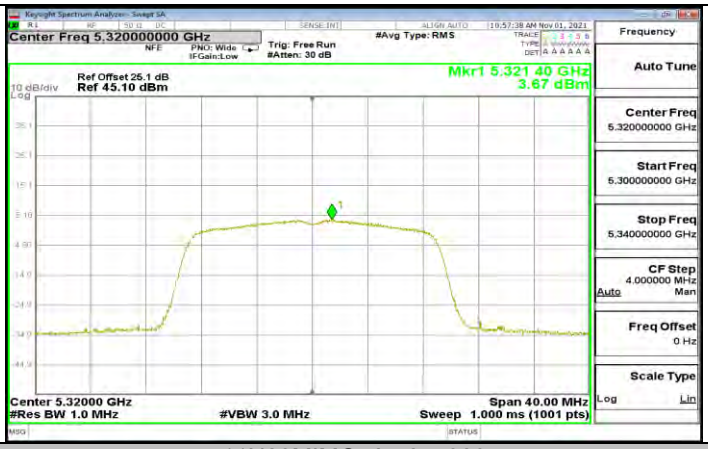

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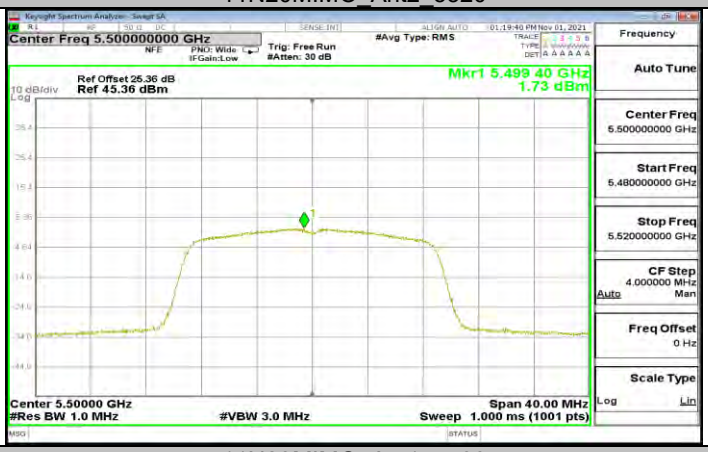

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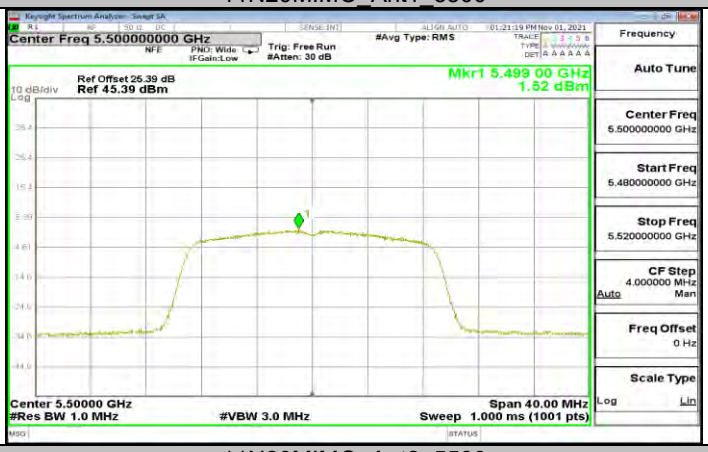

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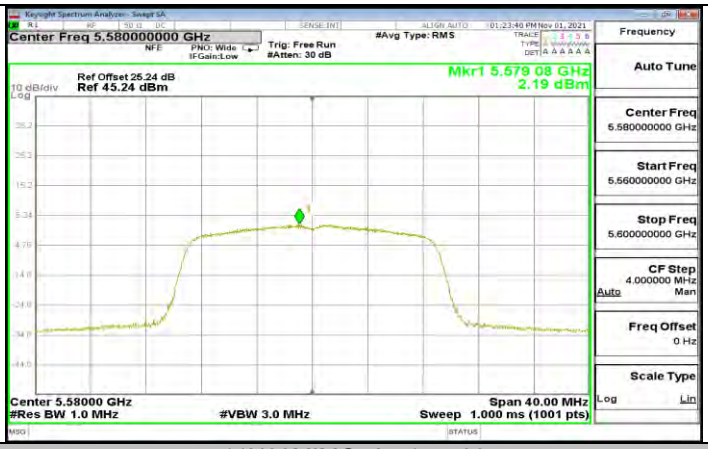

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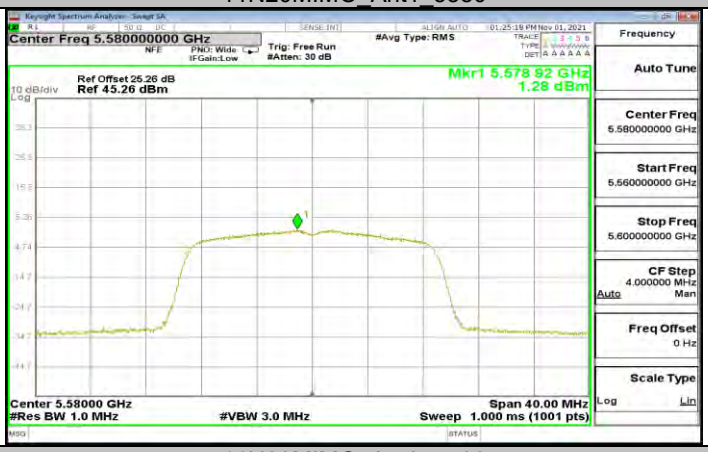

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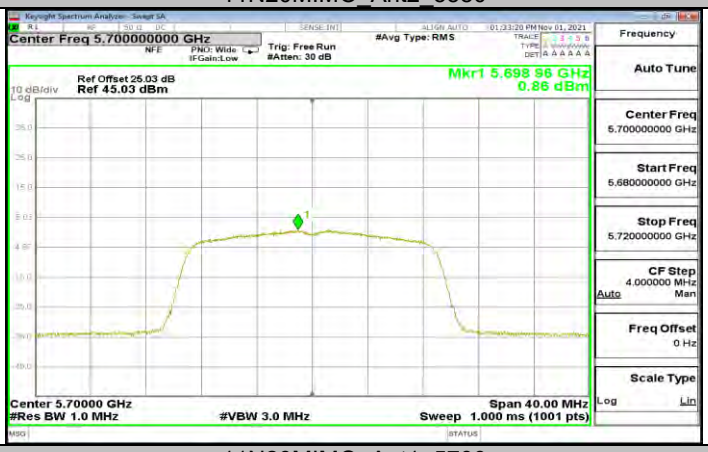

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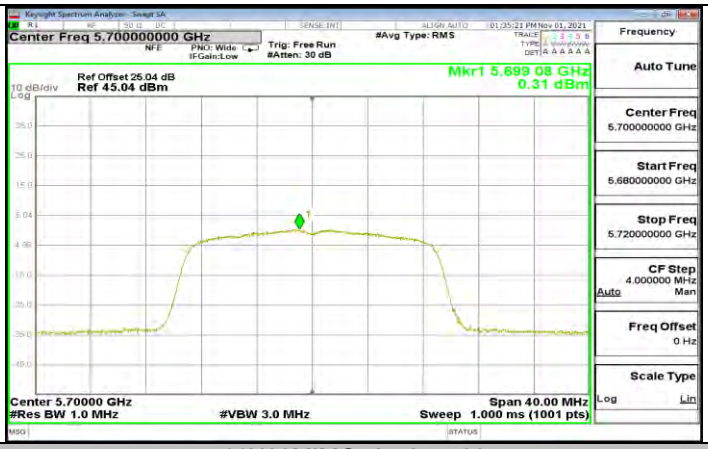

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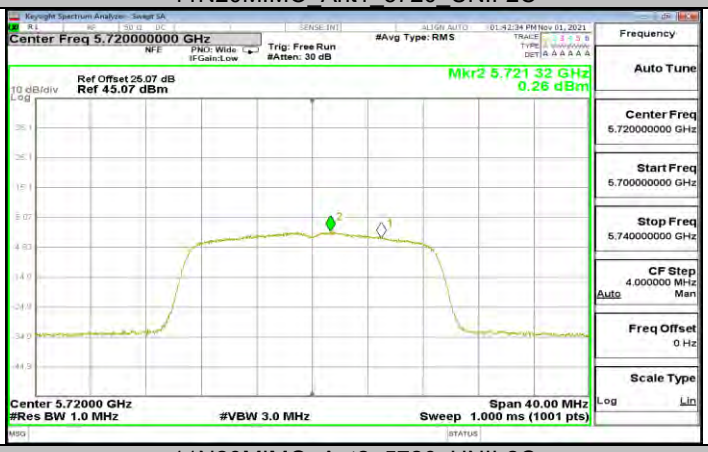

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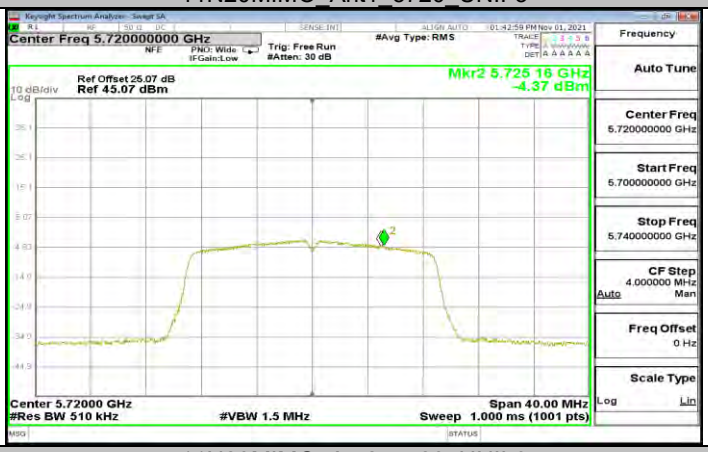

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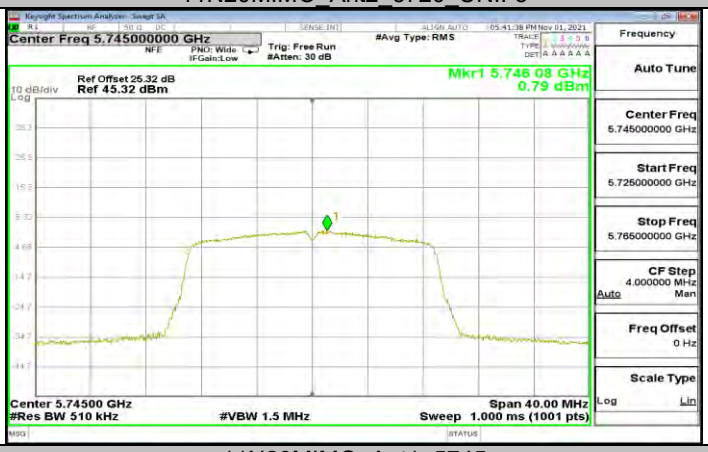

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