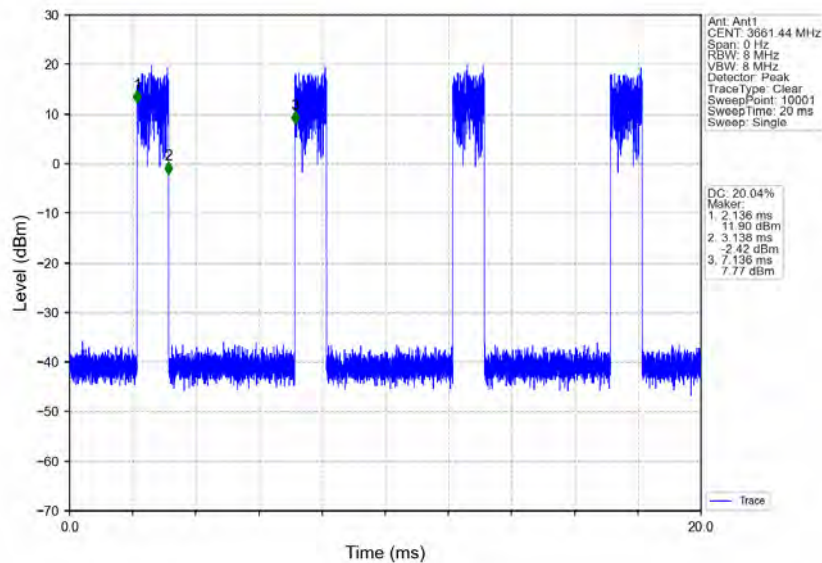
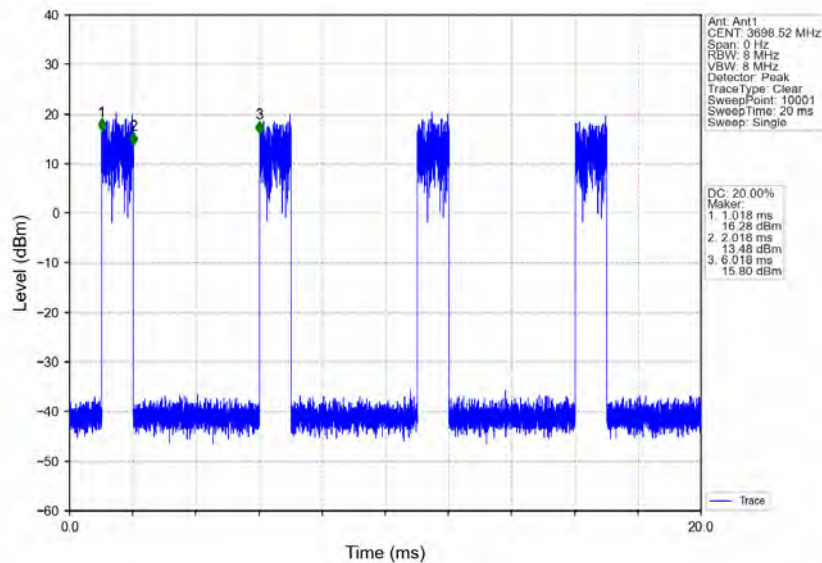


n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Right



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2. Effective (Isotropic) Radiated Power Output Data

2.1 30k_MIMO_10MHz_NTNV_EIRP

2.1.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	9.60	10.22	12.93	14.50	16.02	18.34	-	Pass
		Edge_1RB_Right	9.79	10.29	13.06	14.69	16.09	18.46	-	Pass
		Outer_Full	9.94	10.31	13.14	14.84	16.11	18.53	-	Pass
		Inner_Full	10.08	9.62	12.87	14.98	15.42	18.22	-	Pass
		Inner_1RB_Left	9.87	9.99	12.94	14.77	15.79	18.32	-	Pass
		Inner_1RB_Right	9.95	10.35	13.16	14.85	16.15	18.56	-	Pass
	3624.99	Edge_1RB_Left	9.86	8.99	12.46	14.76	14.79	17.79	-	Pass
		Edge_1RB_Right	9.01	10.00	12.54	13.91	15.80	17.97	-	Pass
		Outer_Full	8.90	9.48	12.21	13.80	15.28	17.61	-	Pass
		Inner_Full	9.16	9.16	12.17	14.06	14.96	17.54	-	Pass
		Inner_1RB_Left	9.10	10.08	12.63	14.00	15.88	18.05	-	Pass
		Inner_1RB_Right	8.84	9.78	12.35	13.74	15.58	17.77	-	Pass
	3694.98	Edge_1RB_Left	9.23	9.46	12.36	14.13	15.26	17.74	-	Pass
		Edge_1RB_Right	9.52	9.33	12.44	14.42	15.13	17.80	-	Pass
		Outer_Full	9.23	9.62	12.44	14.13	15.42	17.83	-	Pass
		Inner_Full	8.82	9.15	12.00	13.72	14.95	17.39	-	Pass
		Inner_1RB_Left	9.80	9.21	12.53	14.70	15.01	17.87	-	Pass
		Inner_1RB_Right	9.19	9.64	12.43	14.09	15.44	17.83	-	Pass
CP-OFDM 16 QAM	3555	Edge_1RB_Left	9.57	9.81	12.70	14.47	15.61	18.09	-	Pass
		Edge_1RB_Right	10.56	10.54	13.56	15.46	16.34	18.93	-	Pass
		Outer_Full	9.67	10.17	12.94	14.57	15.97	18.34	-	Pass
		Inner_Full	9.83	10.30	13.08	14.73	16.10	18.48	-	Pass
		Inner_1RB_Left	9.26	10.65	13.02	14.16	16.45	18.46	-	Pass
		Inner_1RB_Right	9.57	10.38	13.00	14.47	16.18	18.42	-	Pass
	3624.99	Edge_1RB_Left	9.37	9.75	12.57	14.27	15.55	17.97	-	Pass
		Edge_1RB_Right	8.91	9.59	12.27	13.81	15.39	17.68	-	Pass
		Outer_Full	8.86	9.39	12.14	13.76	15.19	17.54	-	Pass
		Inner_Full	8.99	9.49	12.26	13.89	15.29	17.66	-	Pass
		Inner_1RB_Left	9.54	10.53	13.07	14.44	16.33	18.50	-	Pass
		Inner_1RB_Right	8.97	9.98	12.51	13.87	15.78	17.94	-	Pass
	3694.98	Edge_1RB_Left	9.64	10.32	13.00	14.54	16.12	18.41	-	Pass
		Edge_1RB_Right	9.61	9.75	12.69	14.51	15.55	18.07	-	Pass
		Outer_Full	9.16	8.93	12.06	14.06	14.73	17.42	-	Pass
		Inner_Full	9.10	9.13	12.13	14.00	14.93	17.50	-	Pass
		Inner_1RB_Left	9.13	10.21	12.71	14.03	16.01	18.14	-	Pass
		Inner_1RB_Right	8.83	10.35	12.67	13.73	16.15	18.12	-	Pass
CP-OFDM 64 QAM	3555	Edge_1RB_Left	9.84	10.69	13.30	14.74	16.49	18.71	-	Pass
		Edge_1RB_Right	9.74	10.40	13.09	14.64	16.20	18.50	-	Pass
		Outer_Full	10.07	10.02	13.06	14.97	15.82	18.43	-	Pass



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CP-OFDM 256 QAM		Inner_Full	9.62	10.17	12.91	14.52	15.97	18.32	-	Pass
		Inner_1RB_Left	9.65	10.16	12.92	14.55	15.96	18.32	-	Pass
		Inner_1RB_Right	10.08	10.32	13.21	14.98	16.12	18.60	-	Pass
	3624.99	Edge_1RB_Left	8.91	10.21	12.62	13.81	16.01	18.06	-	Pass
		Edge_1RB_Right	8.83	10.20	12.58	13.73	16.00	18.02	-	Pass
		Outer_Full	9.33	9.21	12.28	14.23	15.01	17.65	-	Pass
		Inner_Full	9.15	9.27	12.22	14.05	15.07	17.60	-	Pass
		Inner_1RB_Left	8.57	10.60	12.71	13.47	16.40	18.19	-	Pass
		Inner_1RB_Right	9.57	8.80	12.21	14.47	14.60	17.55	-	Pass
		Edge_1RB_Left	8.49	9.57	12.07	13.39	15.37	17.50	-	Pass
	3694.98	Edge_1RB_Right	9.16	9.30	12.24	14.06	15.10	17.62	-	Pass
		Outer_Full	9.64	9.64	12.65	14.54	15.44	18.02	-	Pass
		Inner_Full	9.86	9.04	12.48	14.76	14.84	17.81	-	Pass
		Inner_1RB_Left	8.63	9.64	12.17	13.53	15.44	17.60	-	Pass
		Inner_1RB_Right	8.28	9.65	12.03	13.18	15.45	17.47	-	Pass
		Edge_1RB_Left	9.99	9.73	12.87	14.89	15.53	18.23	-	Pass
		Edge_1RB_Right	10.03	10.79	13.44	14.93	16.59	18.85	-	Pass
	3555	Outer_Full	10.04	10.44	13.25	14.94	16.24	18.65	-	Pass
		Inner_Full	9.75	9.60	12.69	14.65	15.40	18.05	-	Pass
		Inner_1RB_Left	10.08	9.82	12.96	14.98	15.62	18.32	-	Pass
		Inner_1RB_Right	9.76	10.55	13.18	14.66	16.35	18.60	-	Pass
		Edge_1RB_Left	9.63	9.78	12.72	14.53	15.58	18.10	-	Pass
		Edge_1RB_Right	8.88	9.45	12.18	13.78	15.25	17.59	-	Pass
		Outer_Full	9.56	10.26	12.93	14.46	16.06	18.34	-	Pass
	3624.99	Inner_Full	9.69	9.51	12.61	14.59	15.31	17.98	-	Pass
		Inner_1RB_Left	9.34	9.24	12.30	14.24	15.04	17.67	-	Pass
		Inner_1RB_Right	9.84	8.83	12.37	14.74	14.63	17.70	-	Pass
		Edge_1RB_Left	9.53	9.33	12.44	14.43	15.13	17.80	-	Pass
		Edge_1RB_Right	8.89	9.65	12.30	13.79	15.45	17.71	-	Pass
		Outer_Full	9.44	9.20	12.33	14.34	15.00	17.69	-	Pass
		Inner_Full	9.14	8.75	11.96	14.04	14.55	17.31	-	Pass
	3694.98	Inner_1RB_Left	8.84	9.28	12.08	13.74	15.08	17.47	-	Pass
		Inner_1RB_Right	9.42	9.64	12.54	14.32	15.44	17.93	-	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.2 30k_MIMO_10MHz_NTNV_EIRP/10MHz

2.2.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	9.60	10.22	12.93	14.50	16.02	18.34	<=30	Pass
		Edge_1RB_Right	9.79	10.29	13.06	14.69	16.09	18.46	<=30	Pass
		Outer_Full	9.94	10.31	13.14	14.84	16.11	18.53	<=30	Pass
		Inner_Full	10.08	9.62	12.87	14.98	15.42	18.22	<=30	Pass



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CP-OFDM 16 QAM	3624.99	Inner 1RB Left	9.87	9.99	12.94	14.77	15.79	18.32	<=30	Pass
		Inner 1RB Right	9.95	10.35	13.16	14.85	16.15	18.56	<=30	Pass
	3624.99	Edge 1RB Left	9.86	8.99	12.46	14.76	14.79	17.79	<=30	Pass
		Edge 1RB Right	9.01	10.00	12.54	13.91	15.80	17.97	<=30	Pass
		Outer Full	8.90	9.48	12.21	13.80	15.28	17.61	<=30	Pass
		Inner Full	9.16	9.16	12.17	14.06	14.96	17.54	<=30	Pass
	3694.98	Inner 1RB Left	9.10	10.08	12.63	14.00	15.88	18.05	<=30	Pass
		Inner 1RB Right	8.84	9.78	12.35	13.74	15.58	17.77	<=30	Pass
		Edge 1RB Left	9.23	9.46	12.36	14.13	15.26	17.74	<=30	Pass
		Edge 1RB Right	9.52	9.33	12.44	14.42	15.13	17.80	<=30	Pass
		Outer Full	9.23	9.62	12.44	14.13	15.42	17.83	<=30	Pass
		Inner Full	8.82	9.15	12.00	13.72	14.95	17.39	<=30	Pass
		Inner 1RB Left	9.80	9.21	12.53	14.70	15.01	17.87	<=30	Pass
		Inner 1RB Right	9.19	9.64	12.43	14.09	15.44	17.83	<=30	Pass
	3555	Edge 1RB Left	9.57	9.81	12.70	14.47	15.61	18.09	<=30	Pass
		Edge 1RB Right	10.56	10.54	13.56	15.46	16.34	18.93	<=30	Pass
		Outer Full	9.67	10.17	12.94	14.57	15.97	18.34	<=30	Pass
		Inner Full	9.83	10.30	13.08	14.73	16.10	18.48	<=30	Pass
		Inner 1RB Left	9.26	10.65	13.02	14.16	16.45	18.46	<=30	Pass
		Inner 1RB Right	9.57	10.38	13.00	14.47	16.18	18.42	<=30	Pass
	3624.99	Edge 1RB Left	9.37	9.75	12.57	14.27	15.55	17.97	<=30	Pass
		Edge 1RB Right	8.91	9.59	12.27	13.81	15.39	17.68	<=30	Pass
		Outer Full	8.86	9.39	12.14	13.76	15.19	17.54	<=30	Pass
		Inner Full	8.99	9.49	12.26	13.89	15.29	17.66	<=30	Pass
	3694.98	Inner 1RB Left	9.54	10.53	13.07	14.44	16.33	18.50	<=30	Pass
		Inner 1RB Right	8.97	9.98	12.51	13.87	15.78	17.94	<=30	Pass
		Edge 1RB Left	9.64	10.32	13.00	14.54	16.12	18.41	<=30	Pass
		Edge 1RB Right	9.61	9.75	12.69	14.51	15.55	18.07	<=30	Pass
		Outer Full	9.16	8.93	12.06	14.06	14.73	17.42	<=30	Pass
		Inner Full	9.10	9.13	12.13	14.00	14.93	17.50	<=30	Pass
		Inner 1RB Left	9.13	10.21	12.71	14.03	16.01	18.14	<=30	Pass
		Inner 1RB Right	8.83	10.35	12.67	13.73	16.15	18.12	<=30	Pass
CP-OFDM 64 QAM	3555	Edge 1RB Left	9.84	10.69	13.30	14.74	16.49	18.71	<=30	Pass
		Edge 1RB Right	9.74	10.40	13.09	14.64	16.20	18.50	<=30	Pass
		Outer Full	10.07	10.02	13.06	14.97	15.82	18.43	<=30	Pass
		Inner Full	9.62	10.17	12.91	14.52	15.97	18.32	<=30	Pass
		Inner 1RB Left	9.65	10.16	12.92	14.55	15.96	18.32	<=30	Pass
	3624.99	Inner 1RB Right	10.08	10.32	13.21	14.98	16.12	18.60	<=30	Pass
		Edge 1RB Left	8.91	10.21	12.62	13.81	16.01	18.06	<=30	Pass
		Edge 1RB Right	8.83	10.20	12.58	13.73	16.00	18.02	<=30	Pass
		Outer Full	9.33	9.21	12.28	14.23	15.01	17.65	<=30	Pass
		Inner Full	9.15	9.27	12.22	14.05	15.07	17.60	<=30	Pass
	3694.98	Inner 1RB Left	8.57	10.60	12.71	13.47	16.40	18.19	<=30	Pass
		Inner 1RB Right	9.57	8.80	12.21	14.47	14.60	17.55	<=30	Pass
		Edge 1RB Left	8.49	9.57	12.07	13.39	15.37	17.50	<=30	Pass
		Edge 1RB Right	9.16	9.30	12.24	14.06	15.10	17.62	<=30	Pass
		Outer Full	9.64	9.64	12.65	14.54	15.44	18.02	<=30	Pass
		Inner Full	9.86	9.04	12.48	14.76	14.84	17.81	<=30	Pass
		Inner 1RB Left	8.63	9.64	12.17	13.53	15.44	17.60	<=30	Pass
		Inner 1RB Right	8.28	9.65	12.03	13.18	15.45	17.47	<=30	Pass
	3555	Edge 1RB Left	9.99	9.73	12.87	14.89	15.53	18.23	<=30	Pass
		Edge 1RB Right	10.03	10.79	13.44	14.93	16.59	18.85	<=30	Pass
		Outer Full	10.04	10.44	13.25	14.94	16.24	18.65	<=30	Pass
		Inner Full	9.75	9.60	12.69	14.65	15.40	18.05	<=30	Pass
CP-OFDM 256 QAM	3555	Edge 1RB Left	9.99	9.73	12.87	14.89	15.53	18.23	<=30	Pass
		Edge 1RB Right	10.03	10.79	13.44	14.93	16.59	18.85	<=30	Pass
		Outer Full	10.04	10.44	13.25	14.94	16.24	18.65	<=30	Pass
		Inner Full	9.75	9.60	12.69	14.65	15.40	18.05	<=30	Pass



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		Inner 1RB Left	10.08	9.82	12.96	14.98	15.62	18.32	<=30	Pass
		Inner 1RB Right	9.76	10.55	13.18	14.66	16.35	18.60	<=30	Pass
	3624.99	Edge 1RB Left	9.63	9.78	12.72	14.53	15.58	18.10	<=30	Pass
		Edge 1RB Right	8.88	9.45	12.18	13.78	15.25	17.59	<=30	Pass
		Outer Full	9.56	10.26	12.93	14.46	16.06	18.34	<=30	Pass
		Inner Full	9.69	9.51	12.61	14.59	15.31	17.98	<=30	Pass
	3694.98	Inner 1RB Left	9.34	9.24	12.30	14.24	15.04	17.67	<=30	Pass
		Inner 1RB Right	9.84	8.83	12.37	14.74	14.63	17.70	<=30	Pass
		Edge 1RB Left	9.53	9.33	12.44	14.43	15.13	17.80	<=30	Pass
		Edge 1RB Right	8.89	9.65	12.30	13.79	15.45	17.71	<=30	Pass
		Outer Full	9.44	9.20	12.33	14.34	15.00	17.69	<=30	Pass
		Inner Full	9.14	8.75	11.96	14.04	14.55	17.31	<=30	Pass
		Inner 1RB Left	8.84	9.28	12.08	13.74	15.08	17.47	<=30	Pass
		Inner 1RB Right	9.42	9.64	12.54	14.32	15.44	17.93	<=30	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.3 30k_MIMO_10MHz_NTNV_PSD

2.3.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge 1RB Left	9.60	10.22	13.40	14.50	16.02	19.20	<=20	Pass
		Edge 1RB Right	9.79	10.29	13.44	14.69	16.09	19.24	<=20	Pass
		Outer Full	9.94	10.31	4.71	14.84	16.11	10.51	<=20	Pass
		Inner Full	10.08	9.62	7.58	14.98	15.42	13.38	<=20	Pass
		Inner 1RB Left	9.87	9.99	13.11	14.77	15.79	18.91	<=20	Pass
	3624.99	Inner 1RB Right	9.95	10.35	13.59	14.85	16.15	19.39	<=20	Pass
		Edge 1RB Left	9.86	8.99	12.93	14.76	14.79	18.73	<=20	Pass
		Edge 1RB Right	9.01	10.00	12.17	13.91	15.80	17.97	<=20	Pass
		Outer Full	8.90	9.48	4.07	13.80	15.28	9.87	<=20	Pass
		Inner Full	9.16	9.16	6.73	14.06	14.96	12.53	<=20	Pass
	3694.98	Inner 1RB Left	9.10	10.08	12.73	14.00	15.88	18.53	<=20	Pass
		Inner 1RB Right	8.84	9.78	12.38	13.74	15.58	18.18	<=20	Pass
		Edge 1RB Left	9.23	9.46	11.80	14.13	15.26	17.60	<=20	Pass
		Edge 1RB Right	9.52	9.33	12.55	14.42	15.13	18.35	<=20	Pass
		Outer Full	9.23	9.62	4.23	14.13	15.42	10.03	<=20	Pass
CP-OFDM 16 QAM	3555	Inner Full	8.82	9.15	6.75	13.72	14.95	12.55	<=20	Pass
		Inner 1RB Left	9.80	9.21	12.28	14.70	15.01	18.08	<=20	Pass
		Inner 1RB Right	9.19	9.64	12.50	14.09	15.44	18.30	<=20	Pass
	3624.99	Edge 1RB Left	9.57	9.81	13.18	14.47	15.61	18.98	<=20	Pass
		Edge 1RB Right	10.56	10.54	13.70	15.46	16.34	19.50	<=20	Pass
		Outer Full	9.67	10.17	4.73	14.57	15.97	10.53	<=20	Pass
		Inner Full	9.83	10.30	7.64	14.73	16.10	13.44	<=20	Pass
		Inner 1RB Left	9.26	10.65	13.90	14.16	16.45	19.70	<=20	Pass
		Inner 1RB Right	9.57	10.38	13.67	14.47	16.18	19.47	<=20	Pass
	3624.99	Edge 1RB Left	9.37	9.75	12.75	14.27	15.55	18.55	<=20	Pass
		Edge 1RB Right	8.91	9.59	12.04	13.81	15.39	17.84	<=20	Pass
		Outer Full	8.86	9.39	4.13	13.76	15.19	9.93	<=20	Pass



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		Inner_Full	8.99	9.49	6.99	13.89	15.29	12.79	<=20	Pass	
		Inner_1RB_Left	9.54	10.53	12.93	14.44	16.33	18.73	<=20	Pass	
		Inner_1RB_Right	8.97	9.98	12.81	13.87	15.78	18.61	<=20	Pass	
	3694.98	Edge_1RB_Left	9.64	10.32	12.77	14.54	16.12	18.57	<=20	Pass	
		Edge_1RB_Right	9.61	9.75	12.90	14.51	15.55	18.70	<=20	Pass	
		Outer_Full	9.16	8.93	3.75	14.06	14.73	9.55	<=20	Pass	
		Inner_Full	9.10	9.13	7.43	14.00	14.93	13.23	<=20	Pass	
		Inner_1RB_Left	9.13	10.21	12.40	14.03	16.01	18.20	<=20	Pass	
		Inner_1RB_Right	8.83	10.35	13.22	13.73	16.15	19.02	<=20	Pass	
CP-OFDM 64 QAM	3555	Edge_1RB_Left	9.84	10.69	13.59	14.74	16.49	19.39	<=20	Pass	
		Edge_1RB_Right	9.74	10.40	13.49	14.64	16.20	19.29	<=20	Pass	
		Outer_Full	10.07	10.02	4.66	14.97	15.82	10.46	<=20	Pass	
		Inner_Full	9.62	10.17	7.55	14.52	15.97	13.35	<=20	Pass	
		Inner_1RB_Left	9.65	10.16	13.16	14.55	15.96	18.96	<=20	Pass	
		Inner_1RB_Right	10.08	10.32	13.58	14.98	16.12	19.38	<=20	Pass	
	3624.99	Edge_1RB_Left	8.91	10.21	12.93	13.81	16.01	18.73	<=20	Pass	
		Edge_1RB_Right	8.83	10.20	12.16	13.73	16.00	17.96	<=20	Pass	
		Outer_Full	9.33	9.21	4.15	14.23	15.01	9.95	<=20	Pass	
		Inner_Full	9.15	9.27	7.25	14.05	15.07	13.05	<=20	Pass	
		Inner_1RB_Left	8.57	10.60	12.75	13.47	16.40	18.55	<=20	Pass	
		Inner_1RB_Right	9.57	8.80	12.34	14.47	14.60	18.14	<=20	Pass	
	3694.98	Edge_1RB_Left	8.49	9.57	12.76	13.39	15.37	18.56	<=20	Pass	
		Edge_1RB_Right	9.16	9.30	12.53	14.06	15.10	18.33	<=20	Pass	
		Outer_Full	9.64	9.64	3.85	14.54	15.44	9.65	<=20	Pass	
		Inner_Full	9.86	9.04	6.92	14.76	14.84	12.72	<=20	Pass	
		Inner_1RB_Left	8.63	9.64	11.87	13.53	15.44	17.67	<=20	Pass	
		Inner_1RB_Right	8.28	9.65	13.03	13.18	15.45	18.83	<=20	Pass	
	CP-OFDM 256 QAM	3555	Edge_1RB_Left	9.99	9.73	13.26	14.89	15.53	19.06	<=20	Pass
			Edge_1RB_Right	10.03	10.79	13.22	14.93	16.59	19.02	<=20	Pass
			Outer_Full	10.04	10.44	4.75	14.94	16.24	10.55	<=20	Pass
			Inner_Full	9.75	9.60	7.79	14.65	15.40	13.59	<=20	Pass
			Inner_1RB_Left	10.08	9.82	13.49	14.98	15.62	19.29	<=20	Pass
			Inner_1RB_Right	9.76	10.55	13.84	14.66	16.35	19.64	<=20	Pass
3624.99		Edge_1RB_Left	9.63	9.78	12.59	14.53	15.58	18.39	<=20	Pass	
		Edge_1RB_Right	8.88	9.45	12.35	13.78	15.25	18.15	<=20	Pass	
		Outer_Full	9.56	10.26	4.21	14.46	16.06	10.01	<=20	Pass	
		Inner_Full	9.69	9.51	7.37	14.59	15.31	13.17	<=20	Pass	
		Inner_1RB_Left	9.34	9.24	12.88	14.24	15.04	18.68	<=20	Pass	
		Inner_1RB_Right	9.84	8.83	12.74	14.74	14.63	18.54	<=20	Pass	
3694.98		Edge_1RB_Left	9.53	9.33	12.72	14.43	15.13	18.52	<=20	Pass	
		Edge_1RB_Right	8.89	9.65	12.72	13.79	15.45	18.52	<=20	Pass	
		Outer_Full	9.44	9.20	4.22	14.34	15.00	10.02	<=20	Pass	
		Inner_Full	9.14	8.75	6.77	14.04	14.55	12.57	<=20	Pass	
		Inner_1RB_Left	8.84	9.28	12.84	13.74	15.08	18.64	<=20	Pass	
		Inner_1RB_Right	9.42	9.64	13.18	14.32	15.44	18.98	<=20	Pass	
Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi; Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2											



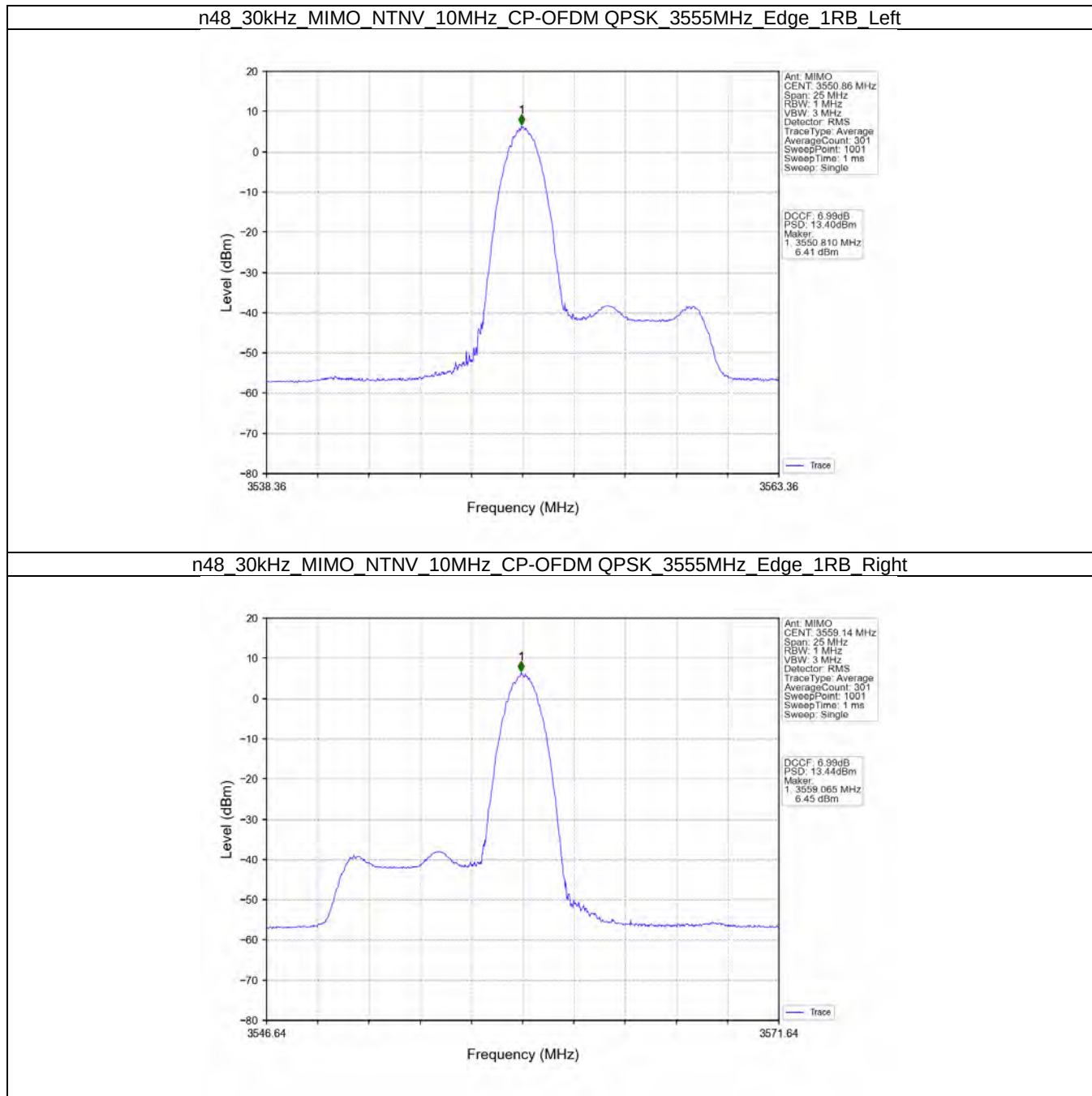
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2.3.2 Test Graph



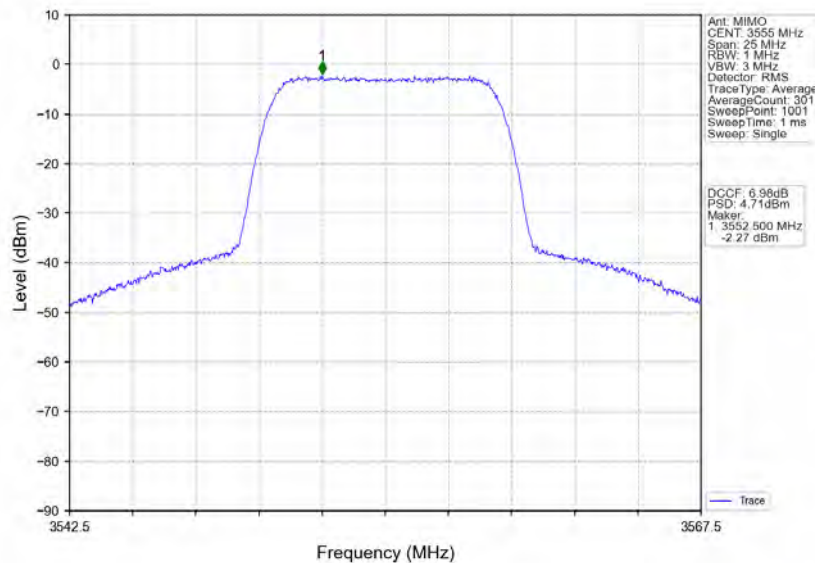
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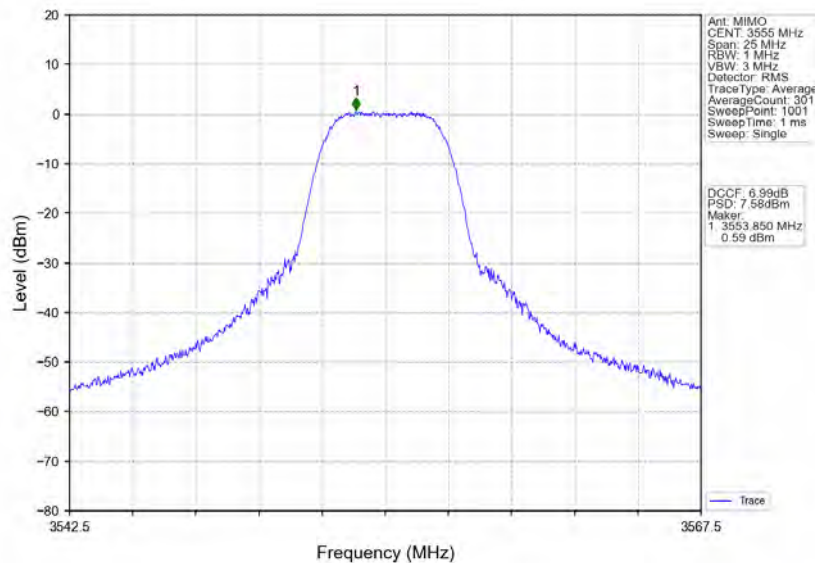
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_Full



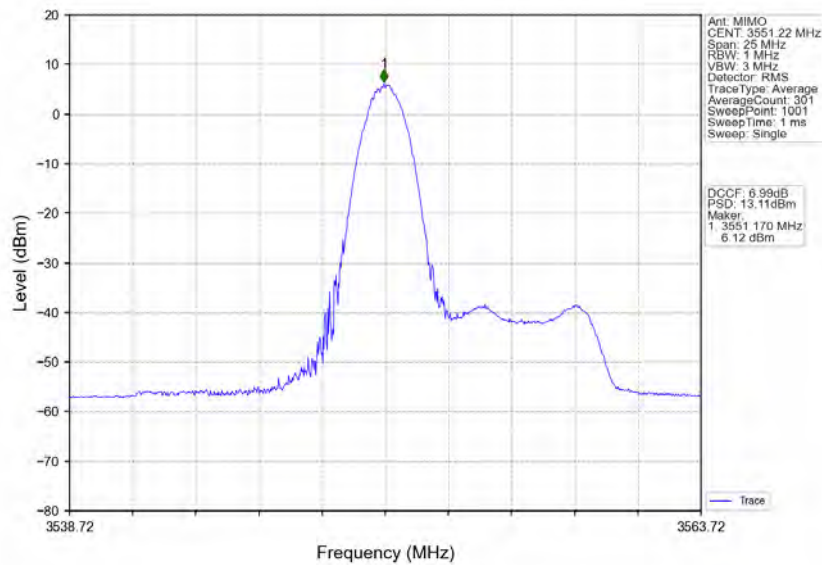
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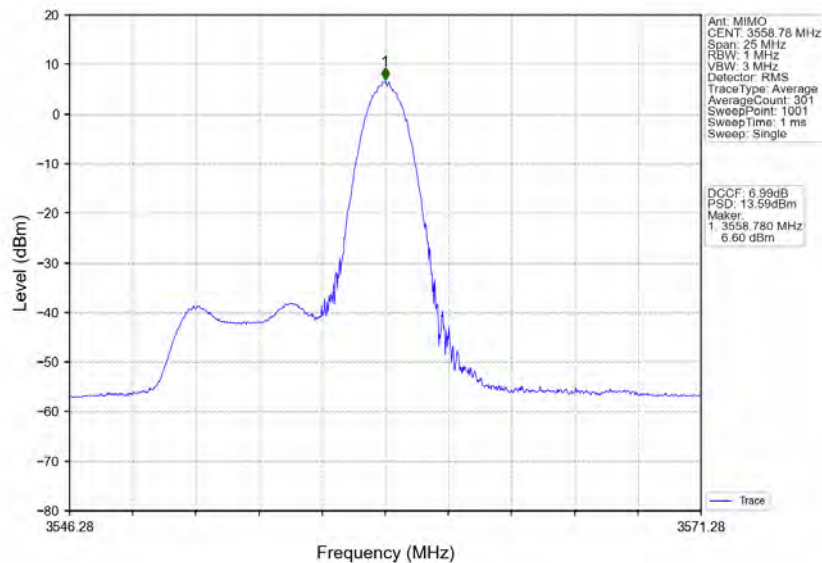
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3555MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3555MHz_Inner_1RB_Right



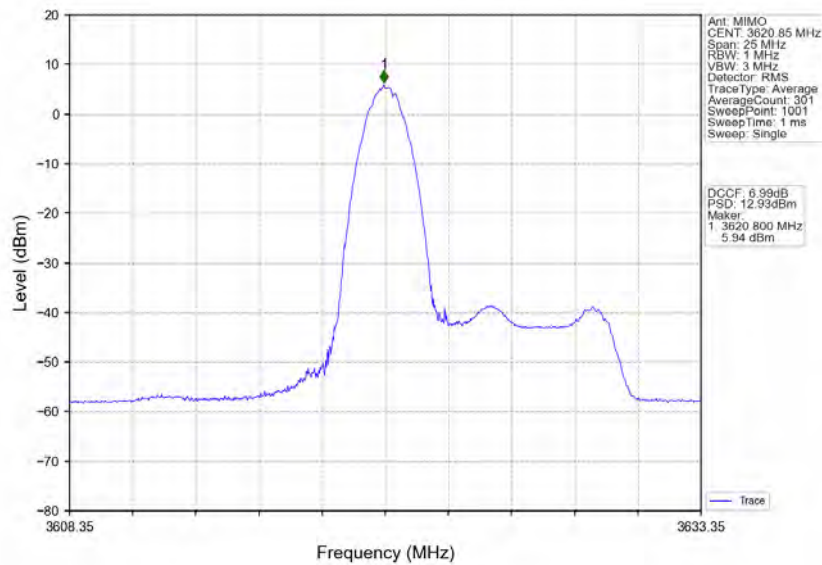
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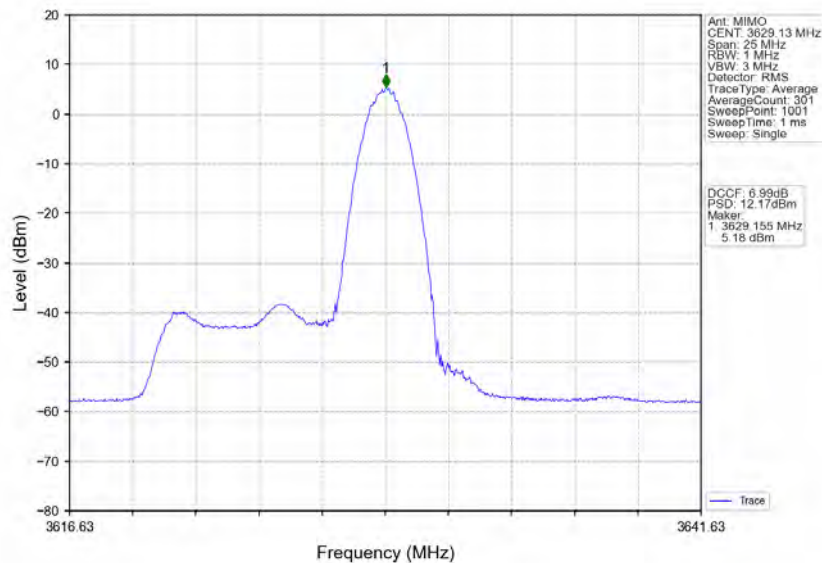
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Right



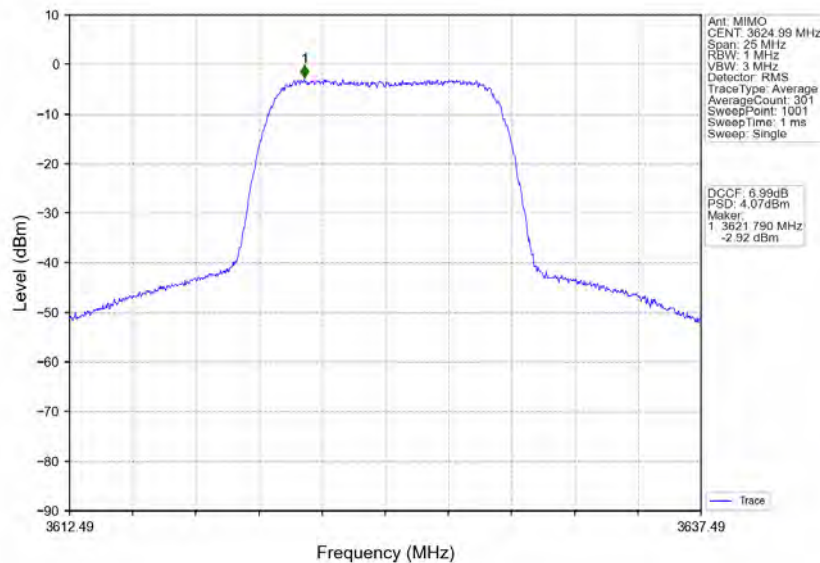
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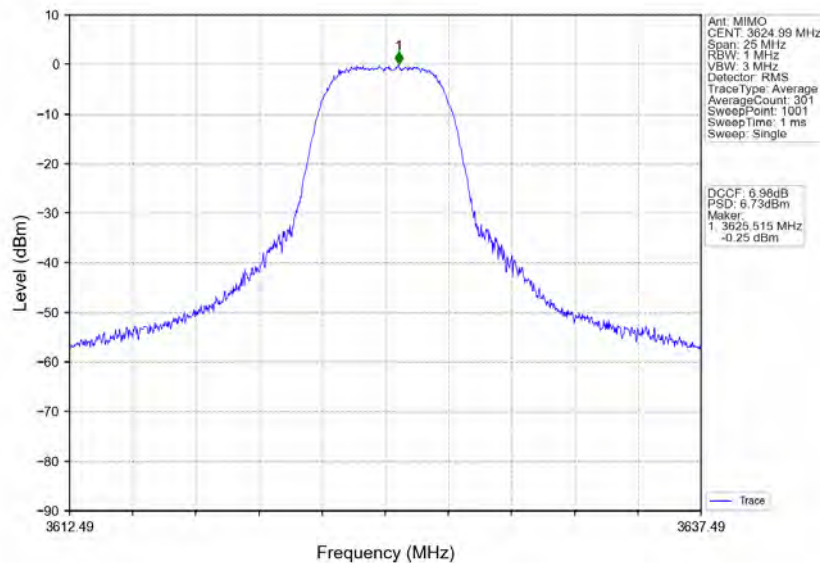
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Inner_Full



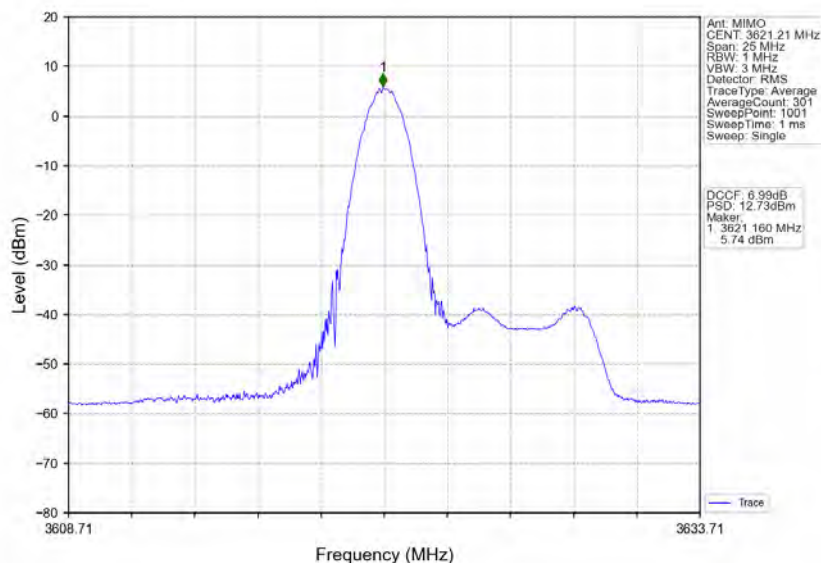
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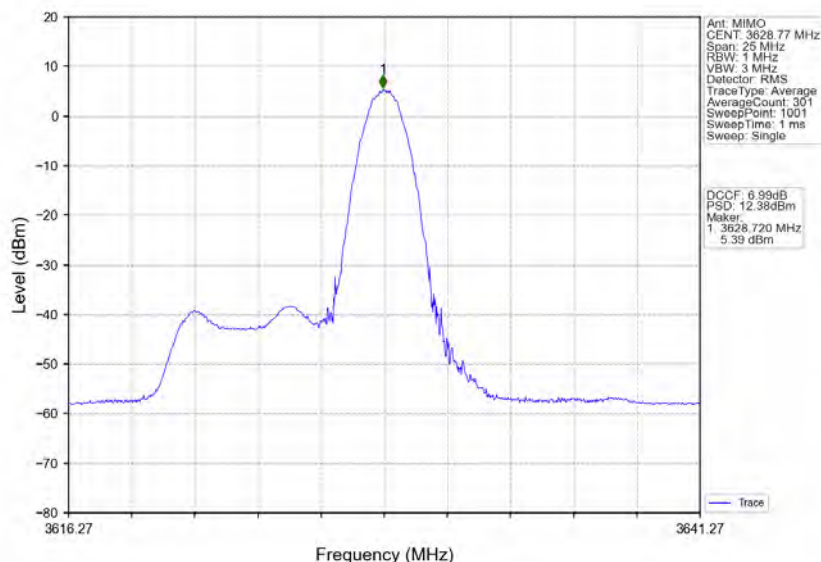
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Inner_1RB_Right



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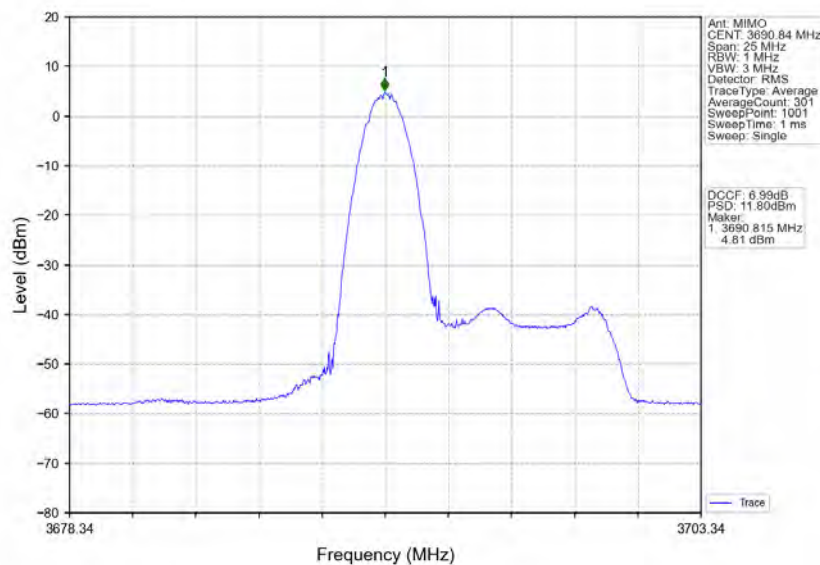
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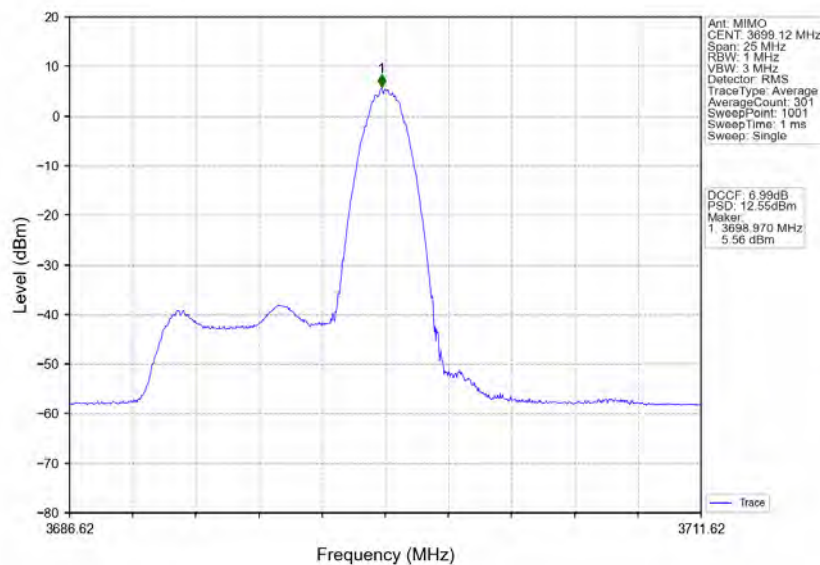
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Edge_1RB_Right



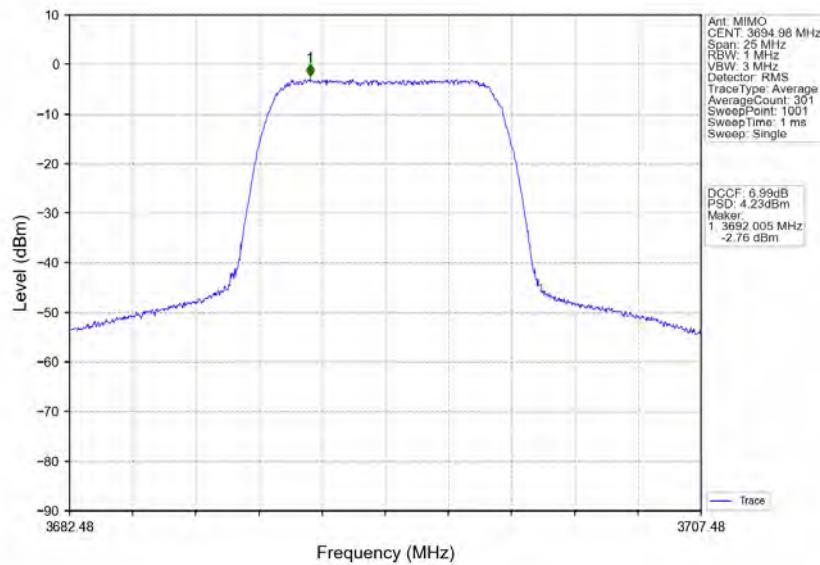
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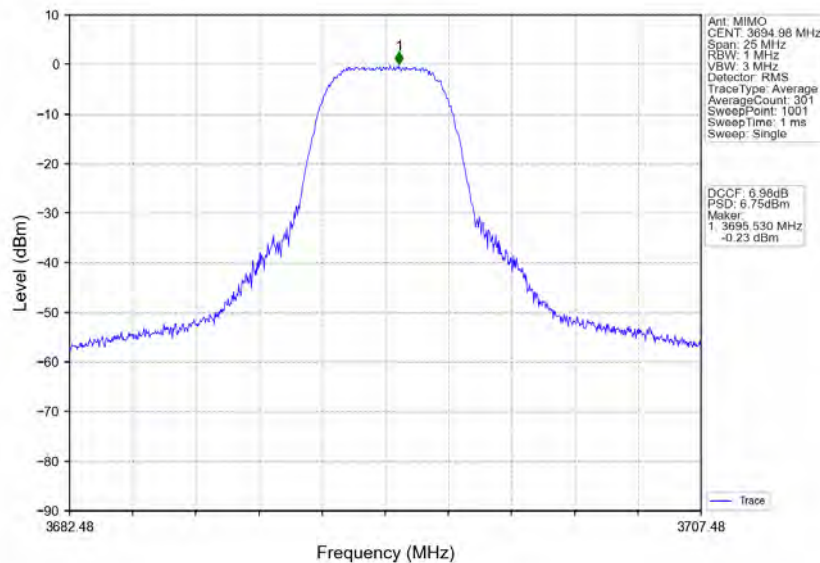
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Inner_Full



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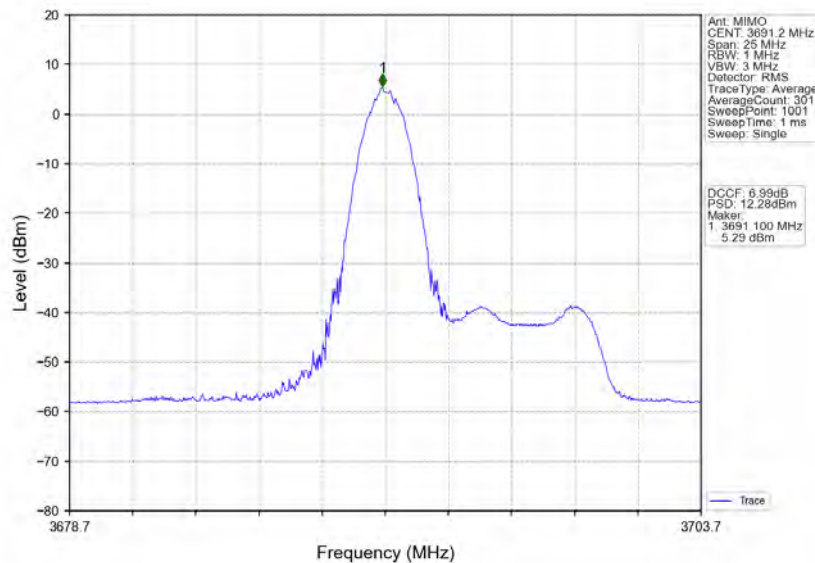
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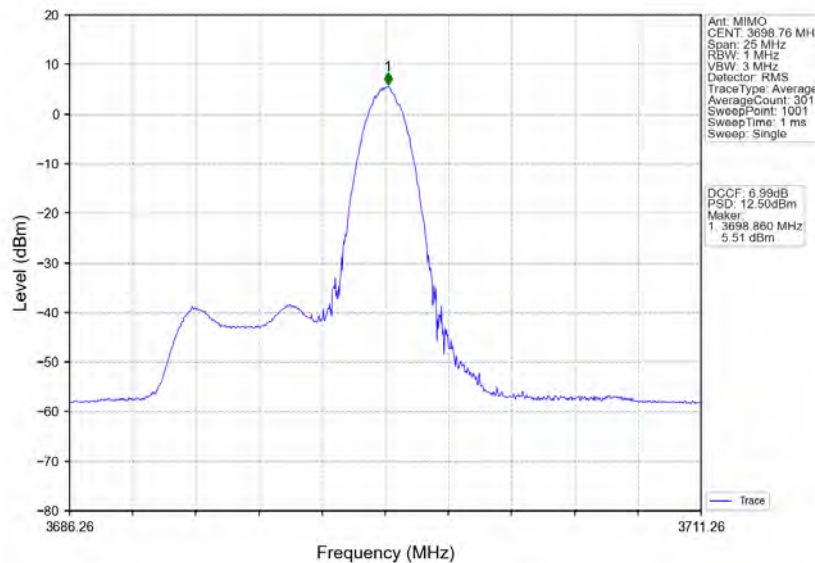
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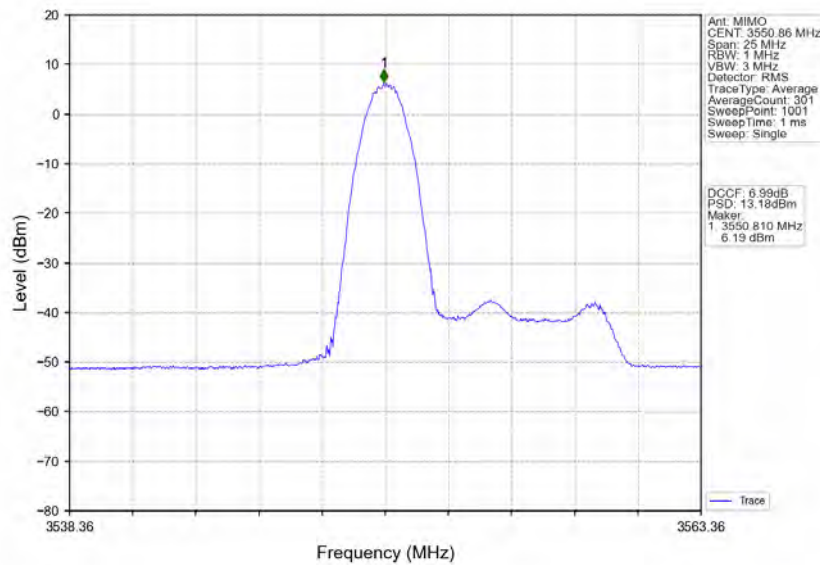
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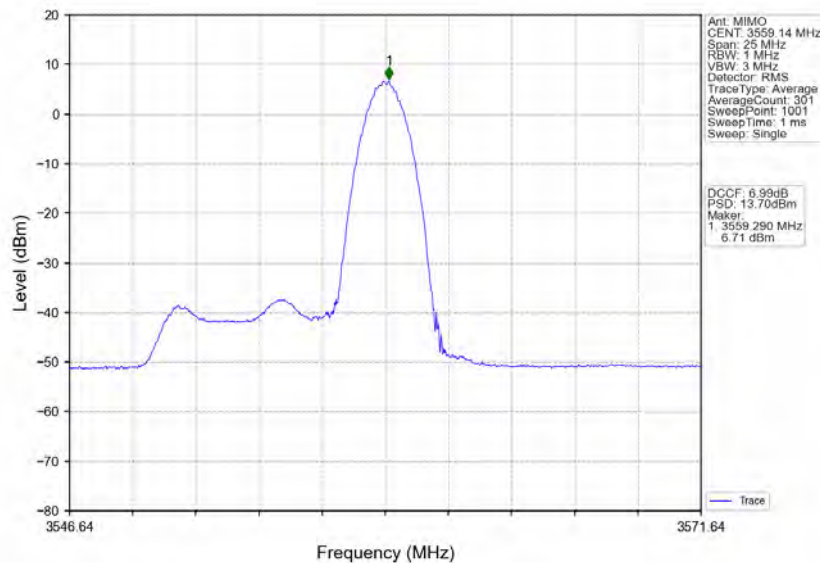
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Edge_1RB_Right



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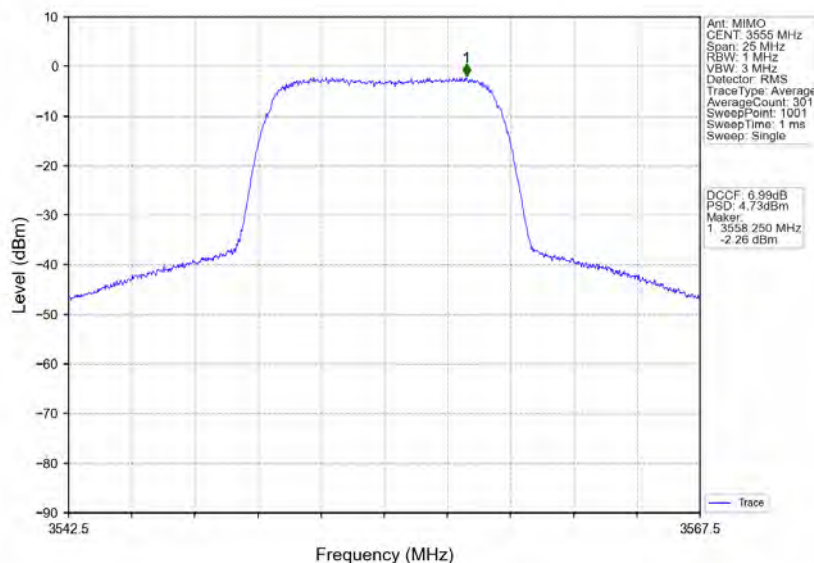
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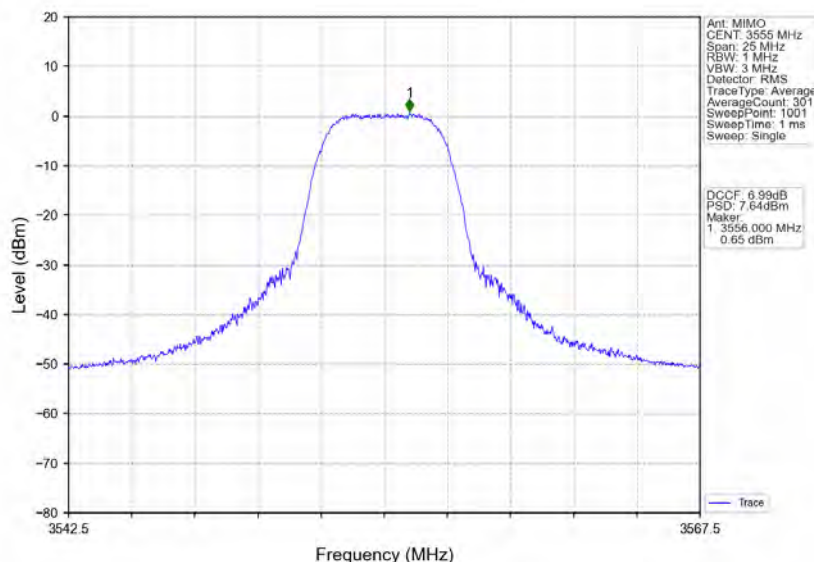
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3555MHz_Inner_Full



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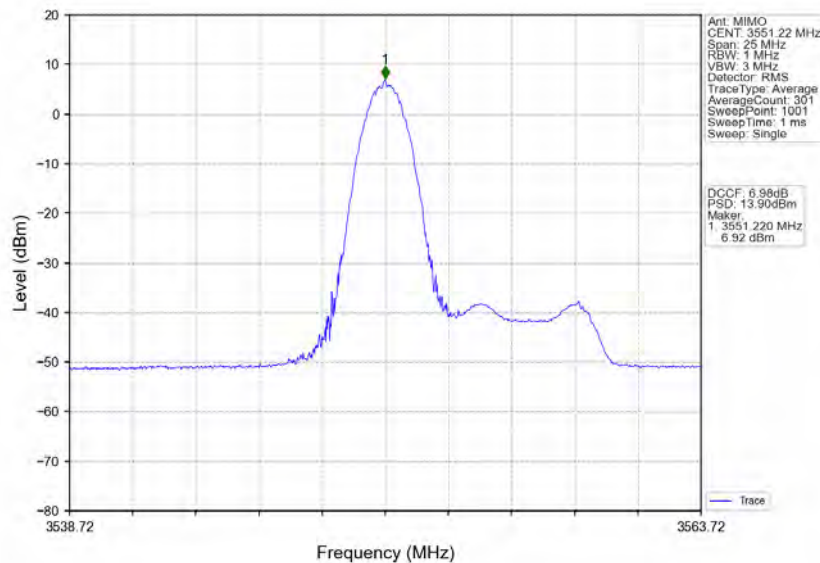
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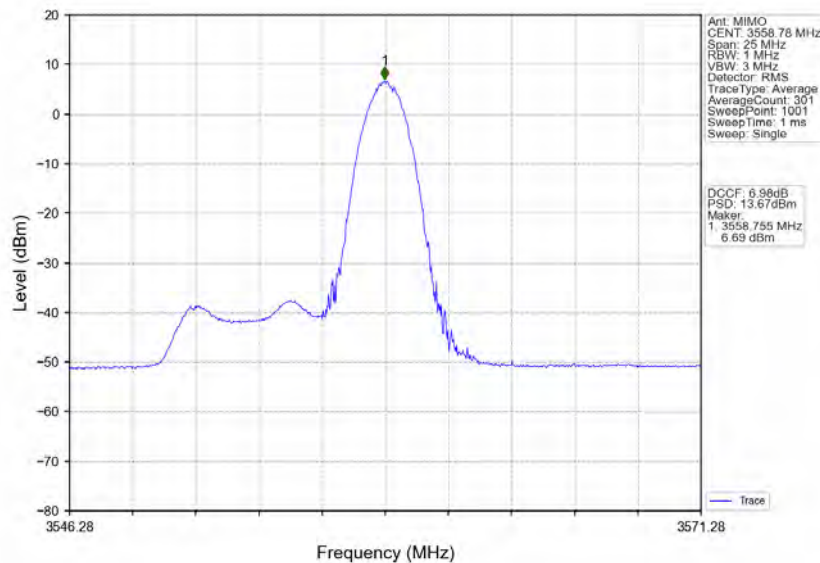
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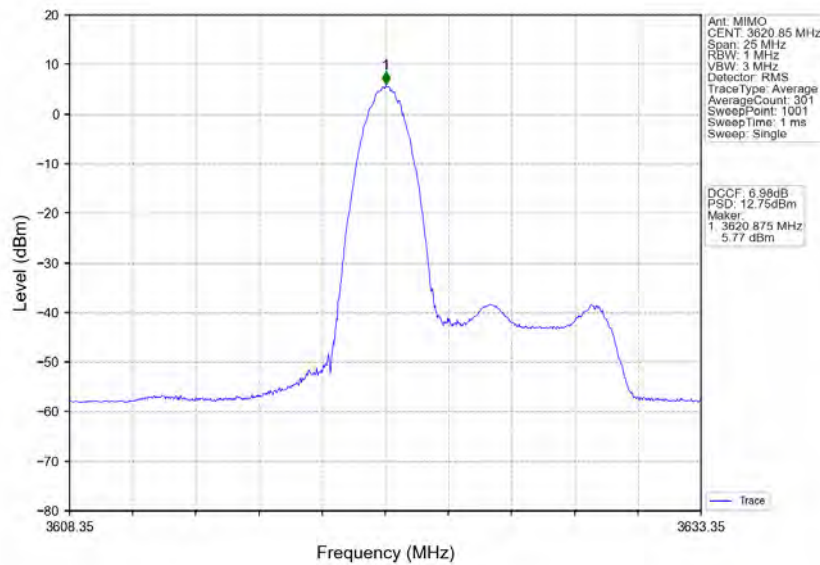
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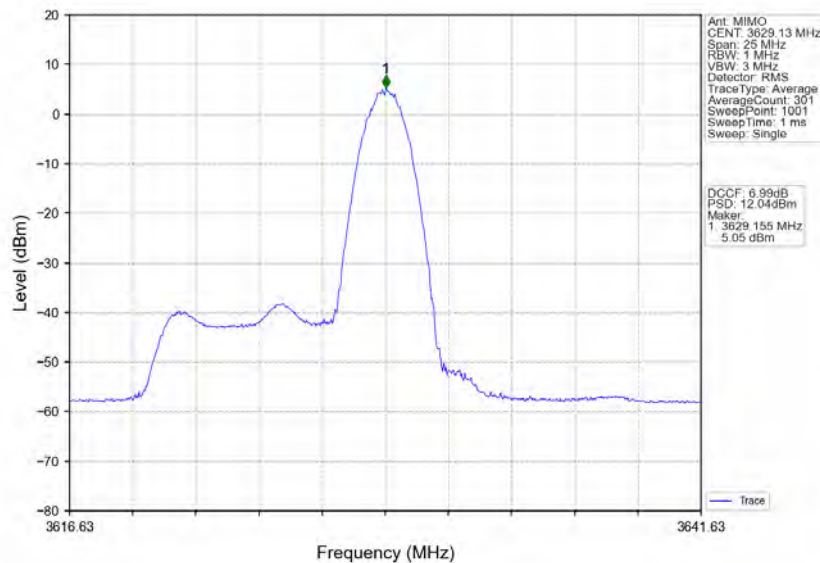
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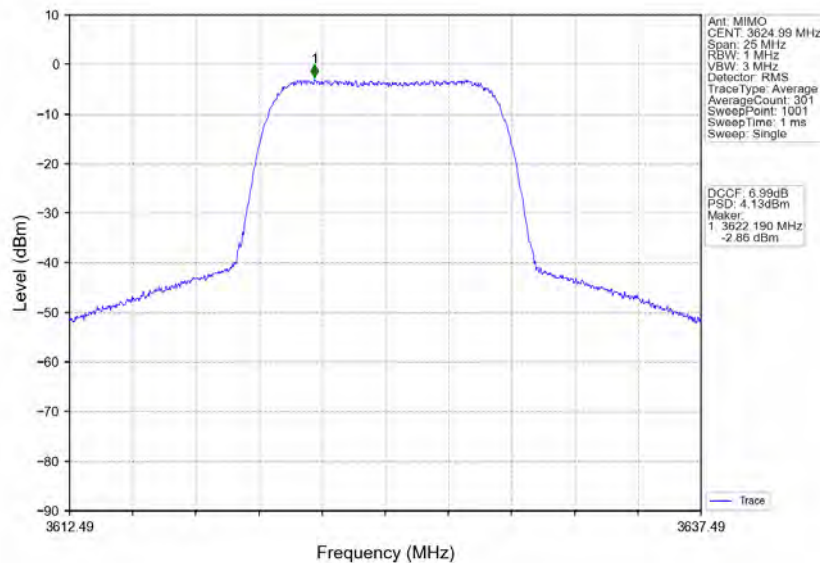
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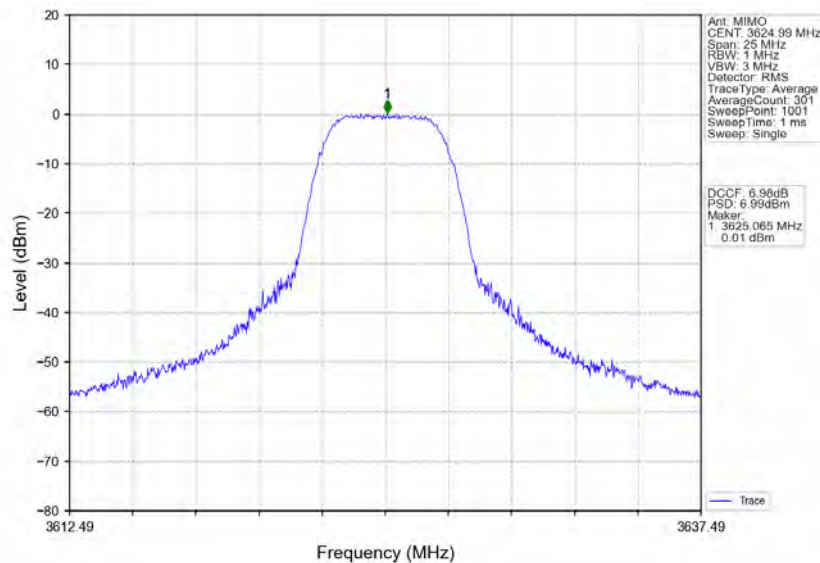
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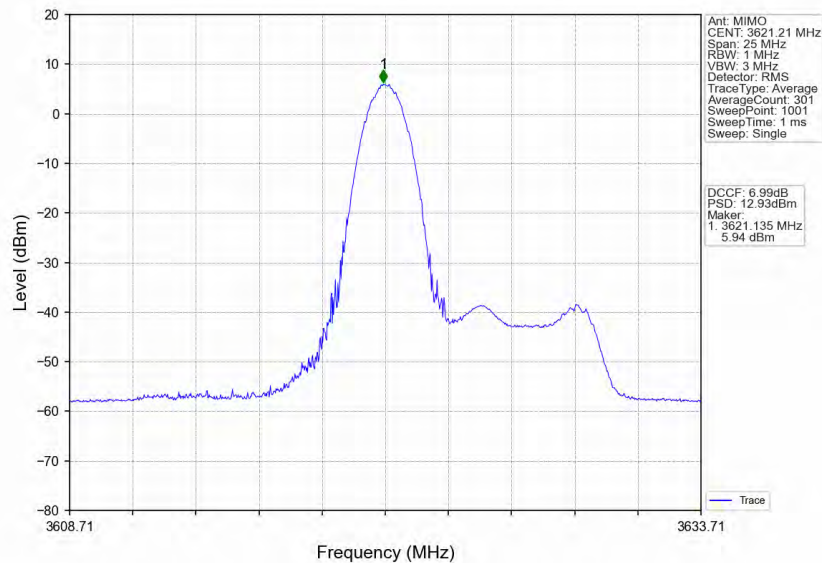
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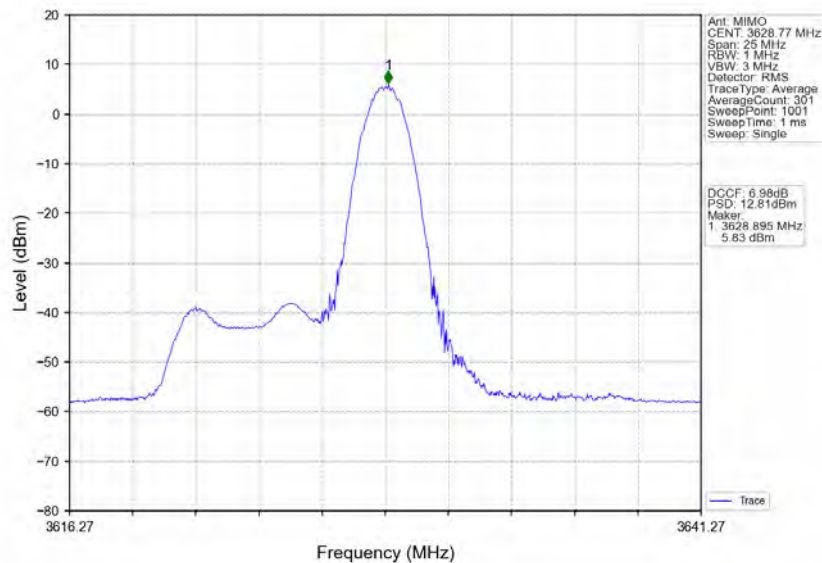
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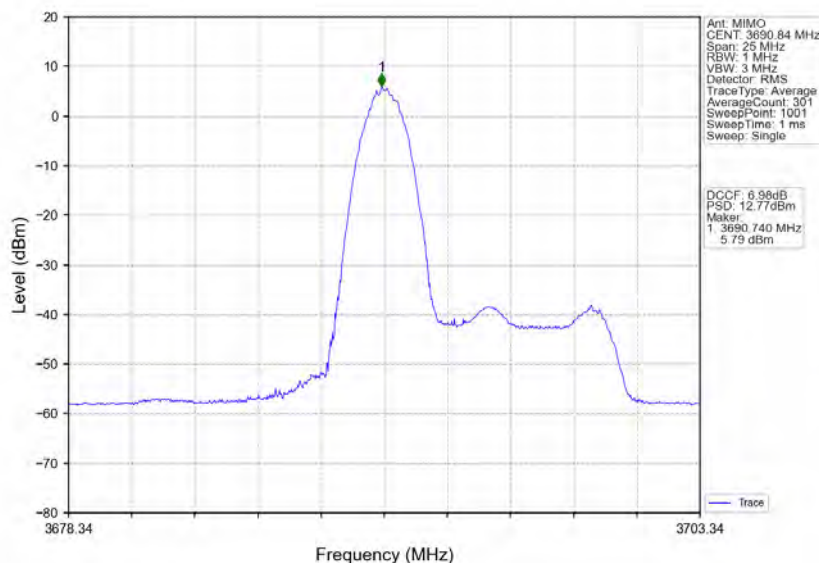
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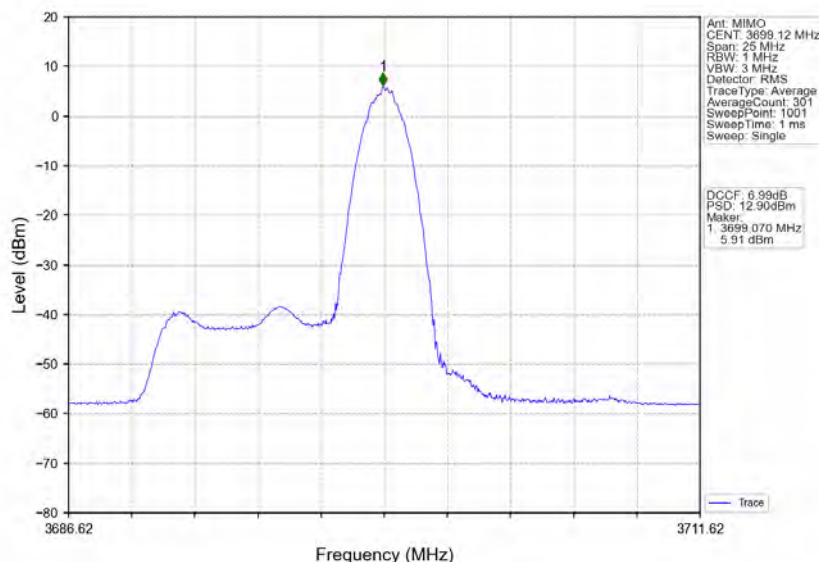
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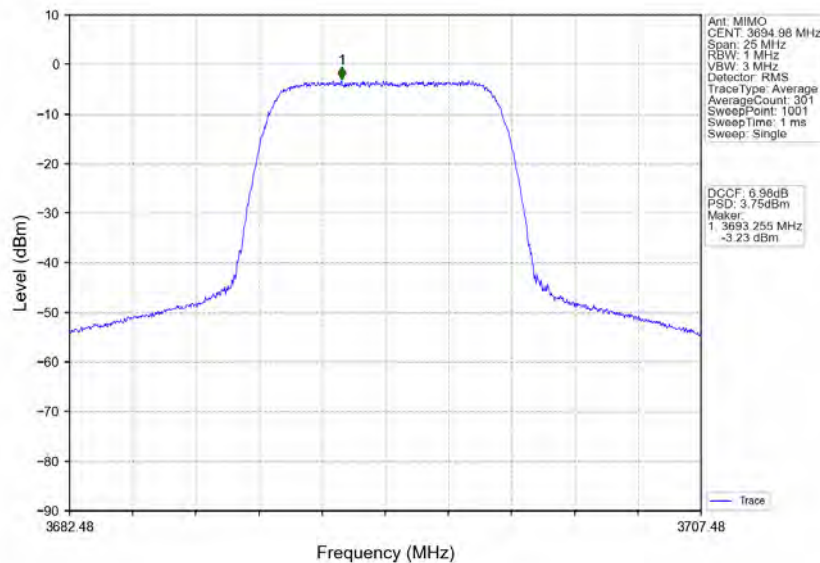
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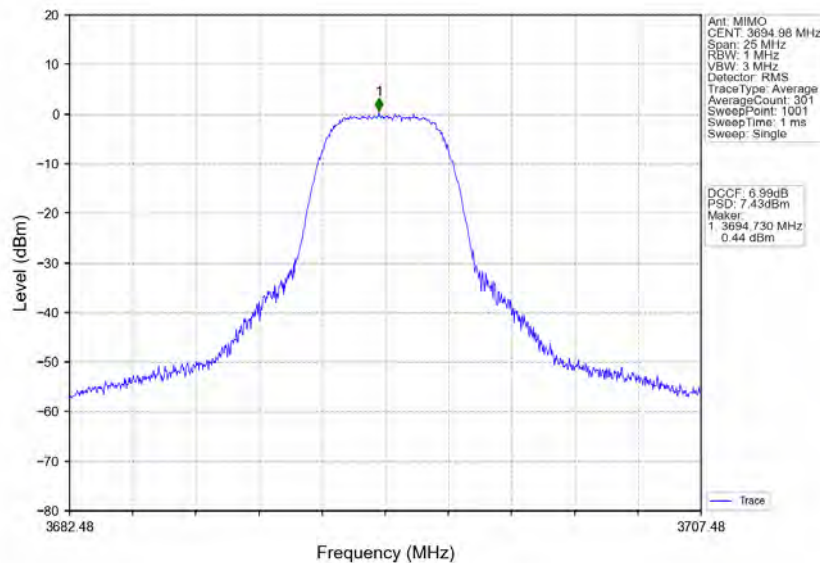
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM 3694.98MHz_Outer_Full



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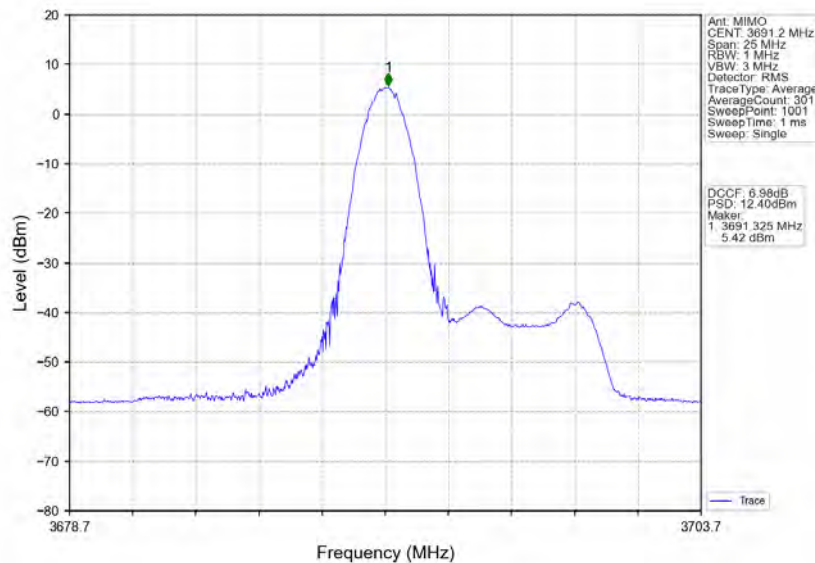
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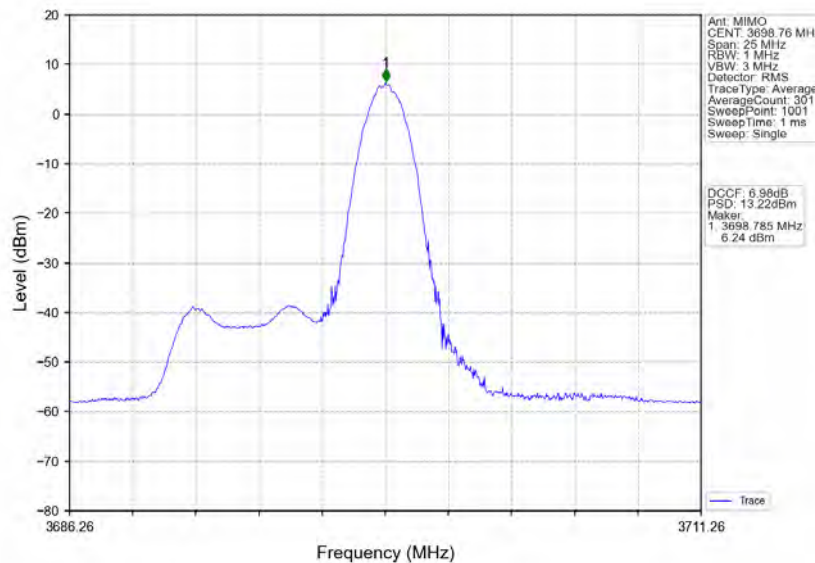
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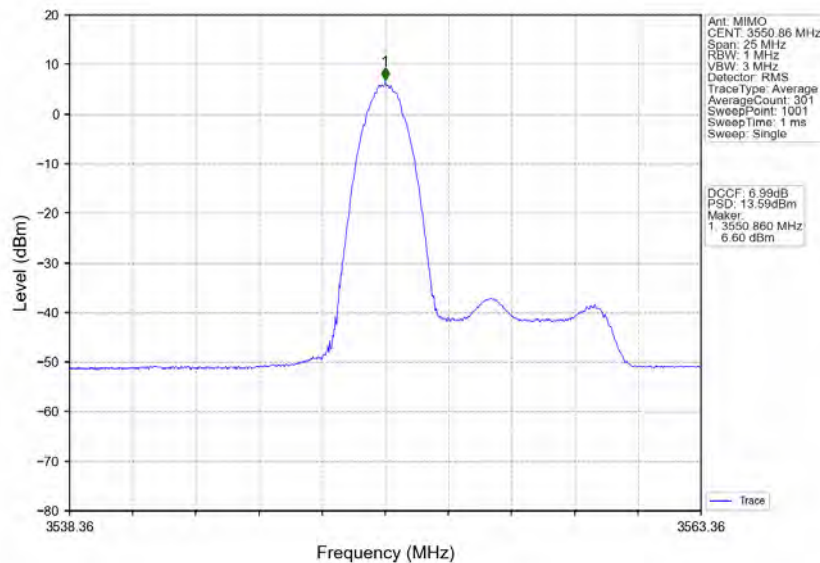
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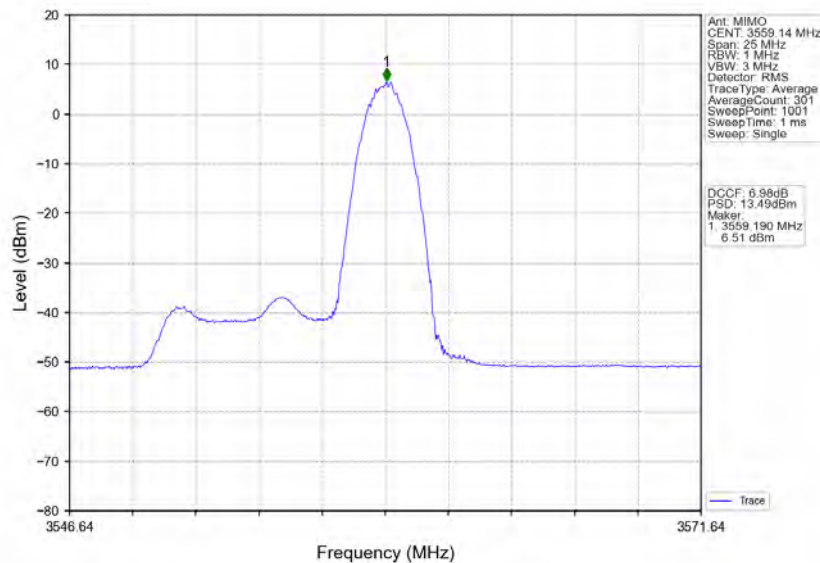
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Edge_1RB_Right



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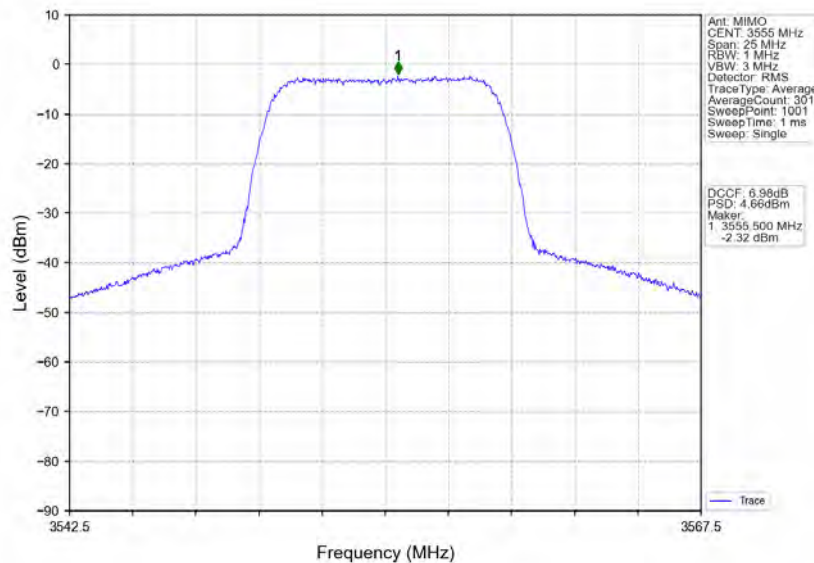
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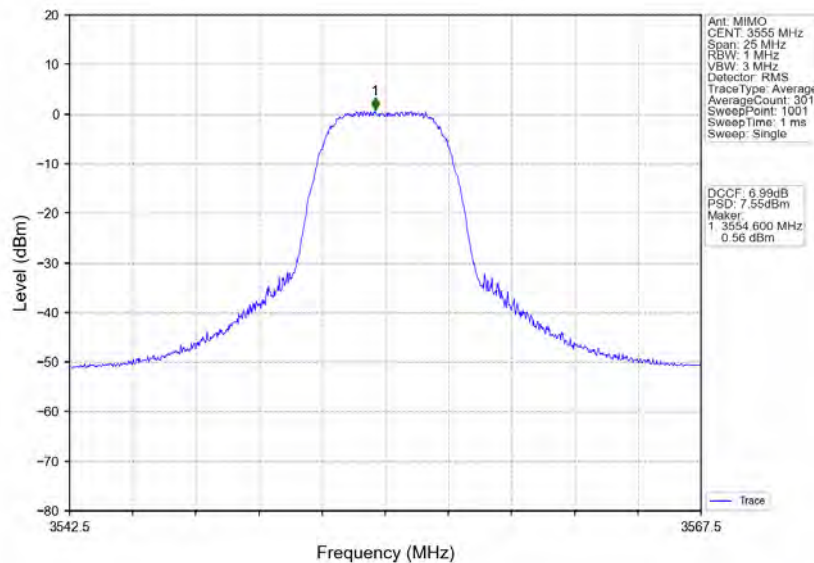
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Inner_Full



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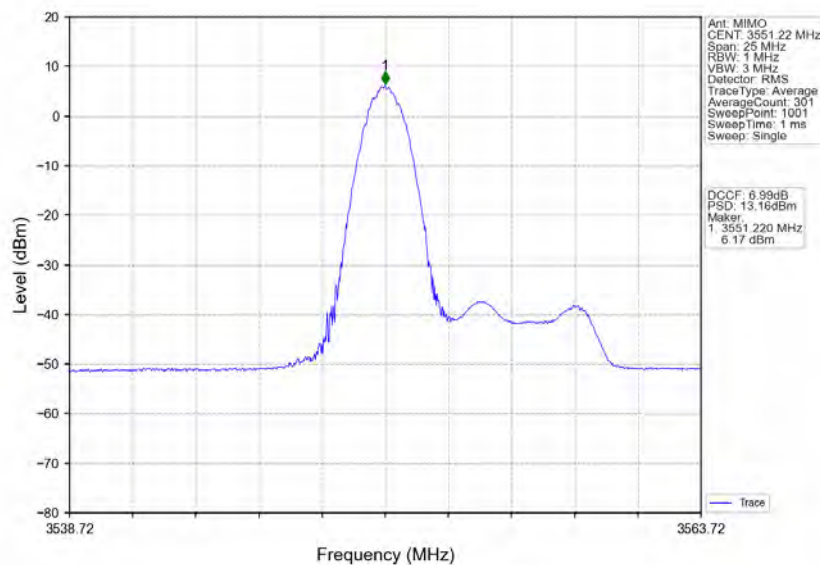
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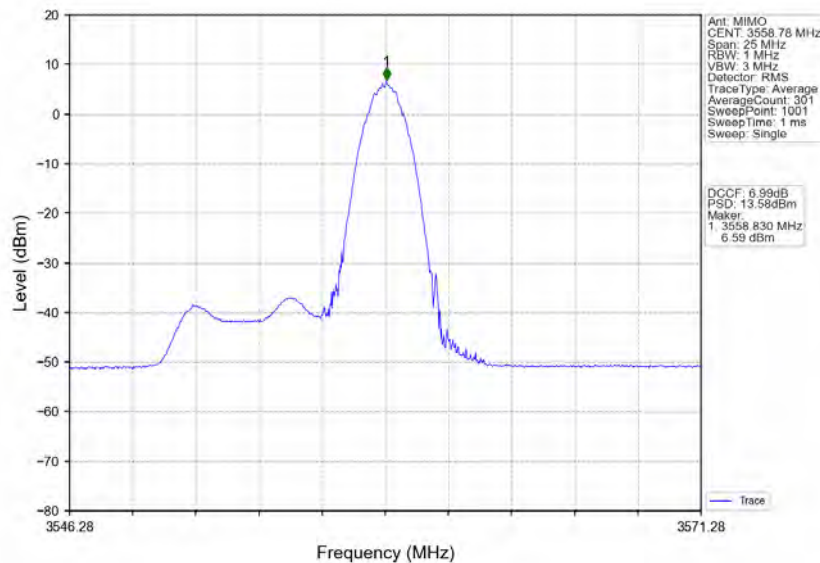
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Inner_1RB_Right



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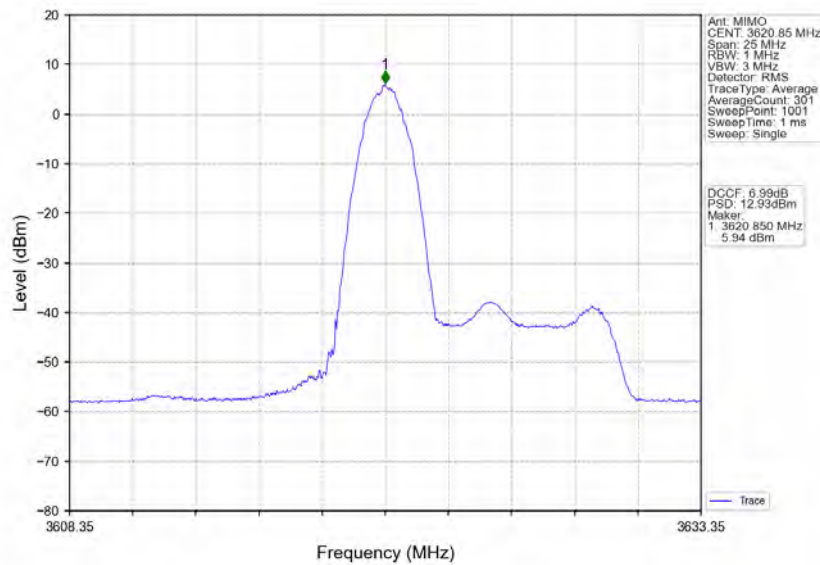
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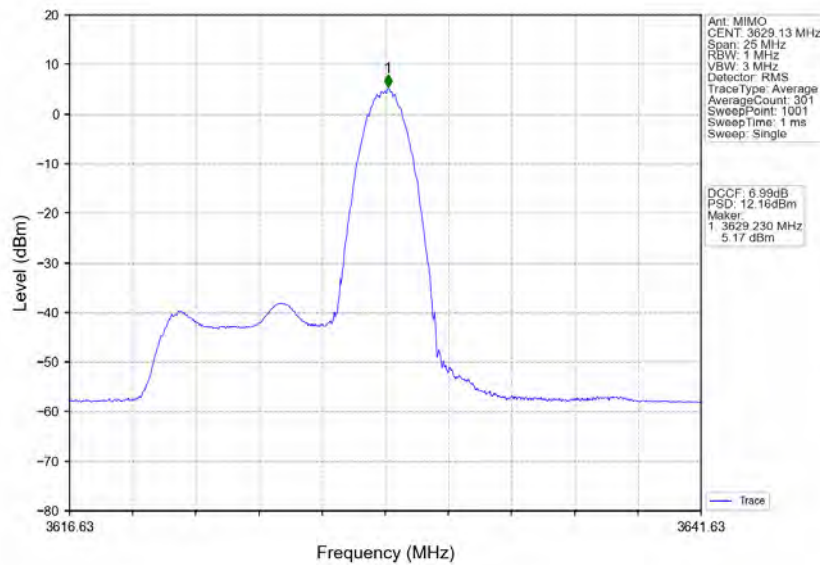
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3624.99MHz_Edge_1RB_Left



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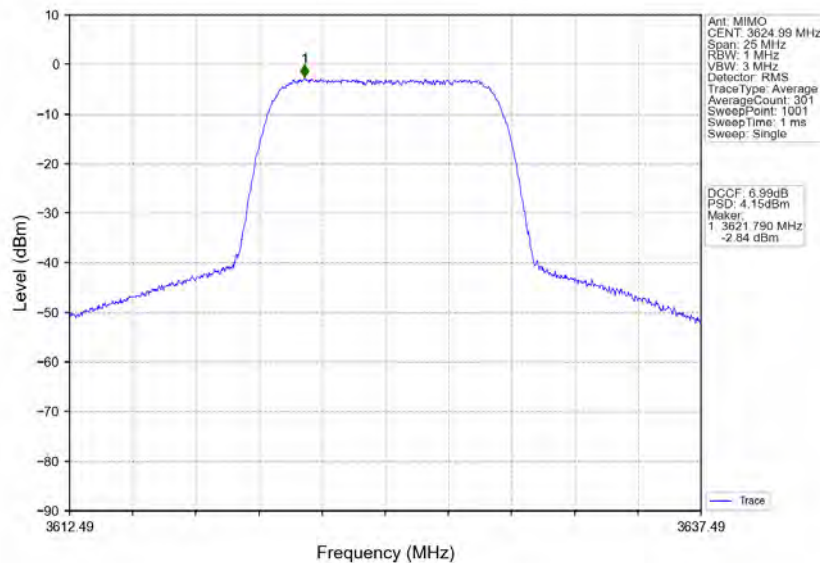
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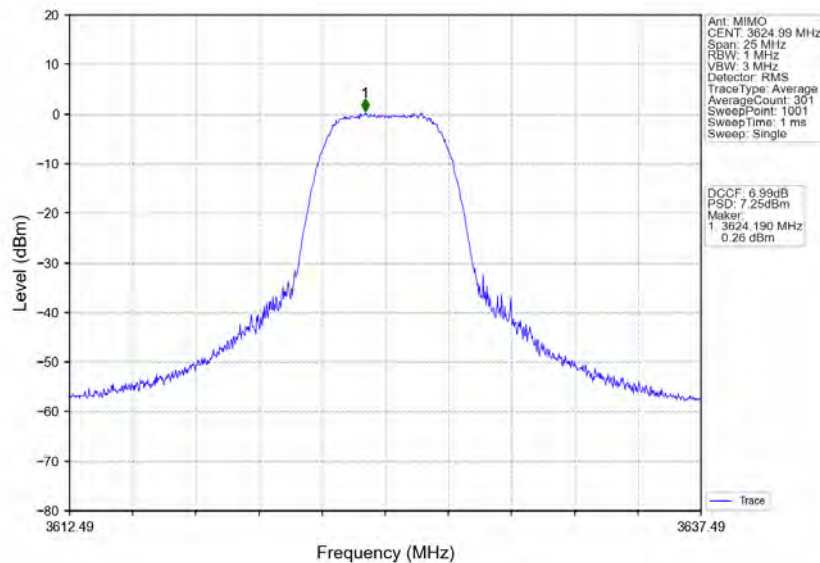
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM 3624.99MHz_Outer_Full



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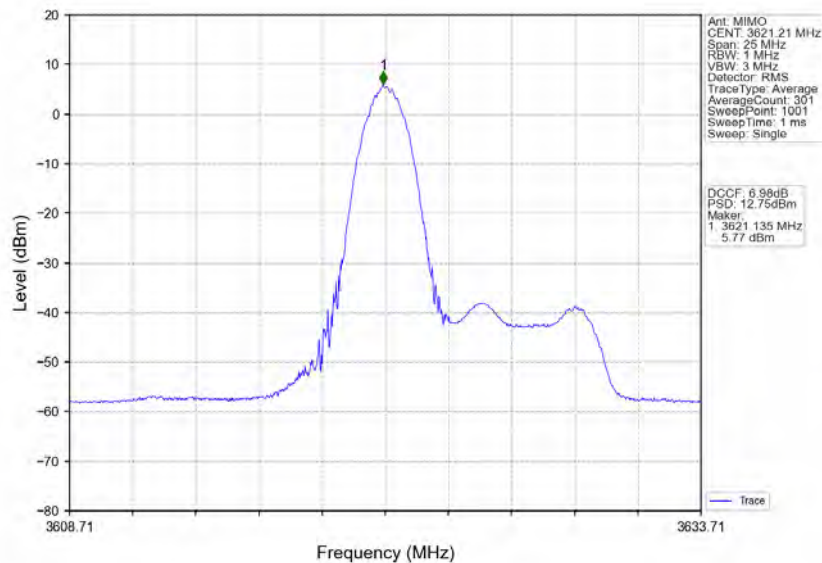
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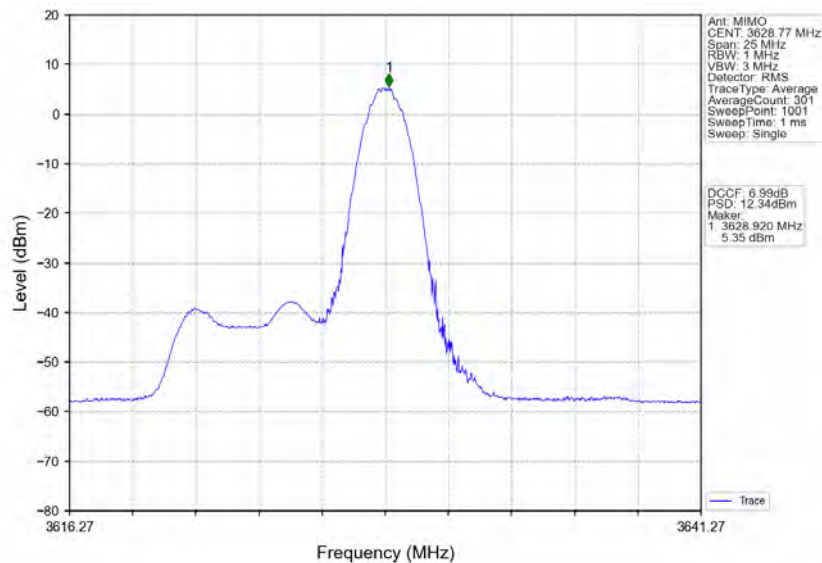
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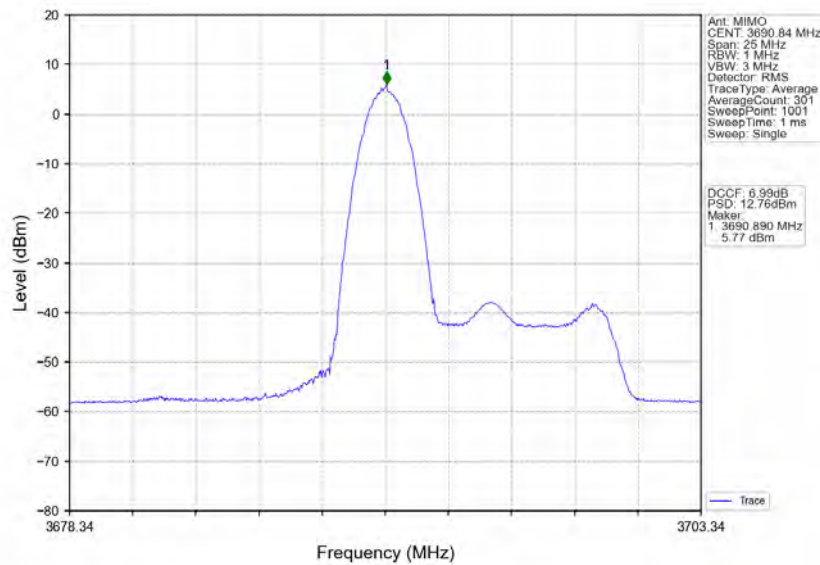
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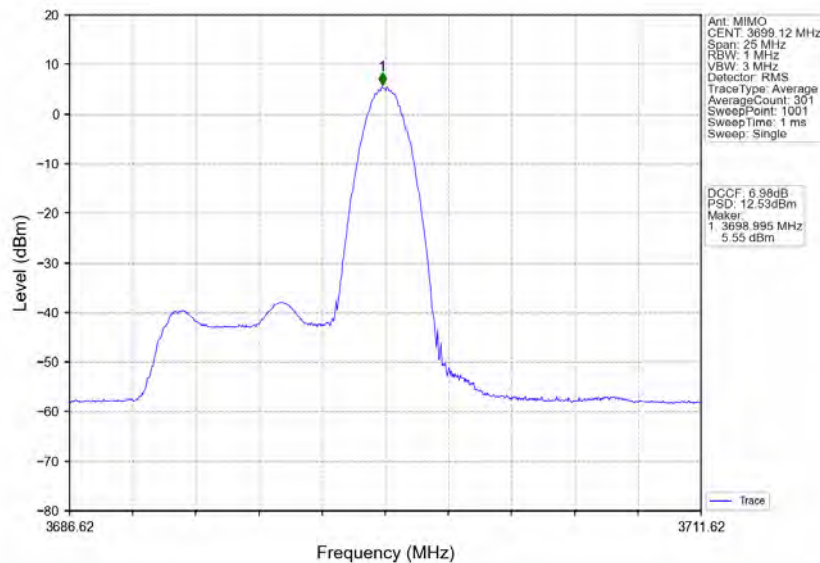
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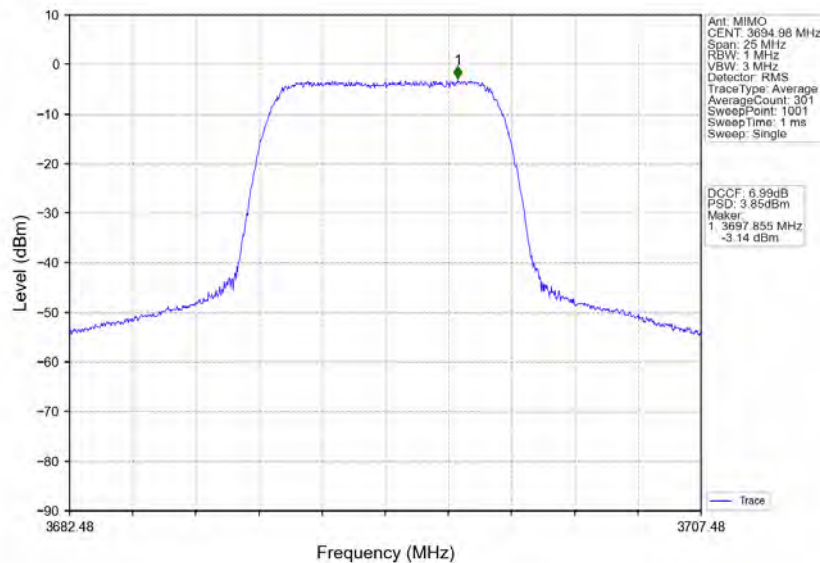
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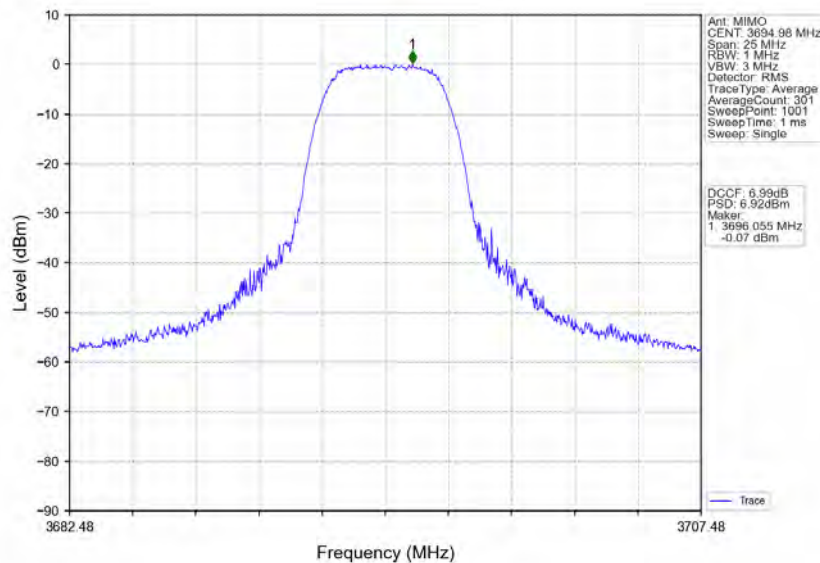
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM 3694.98MHz_Outer_Full



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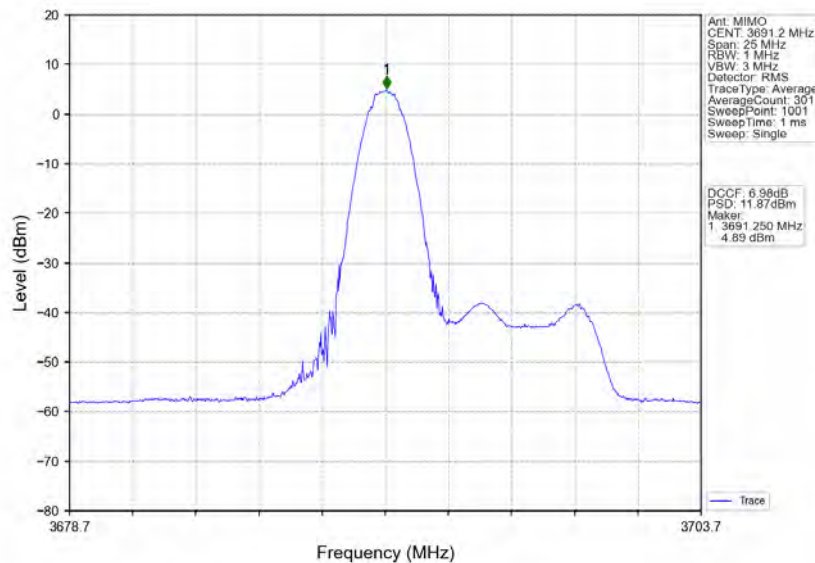
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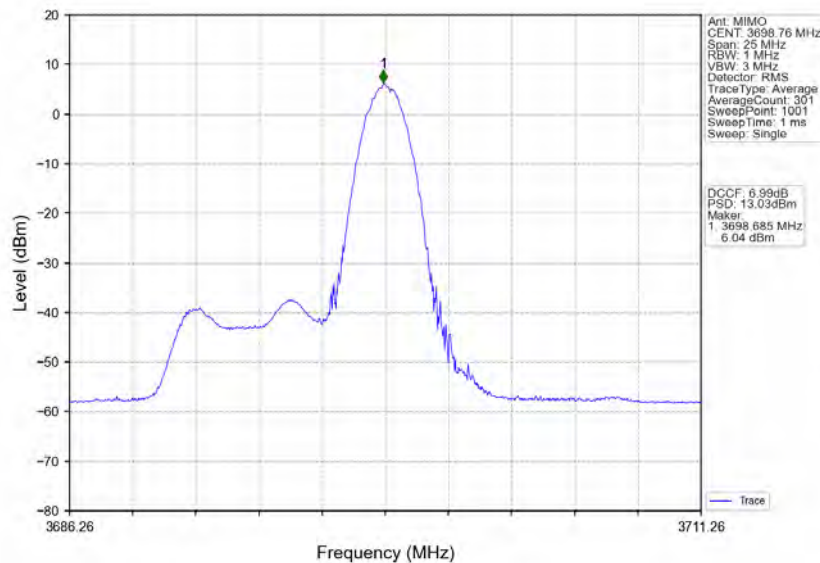
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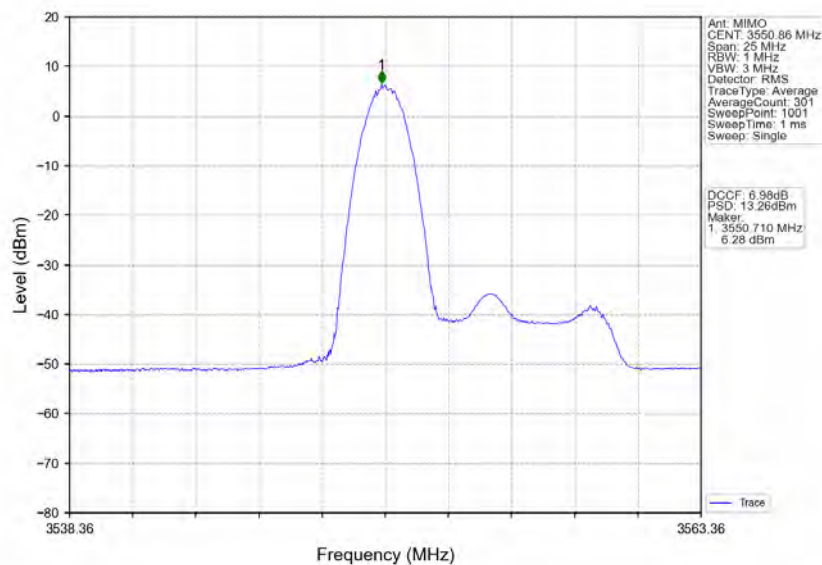
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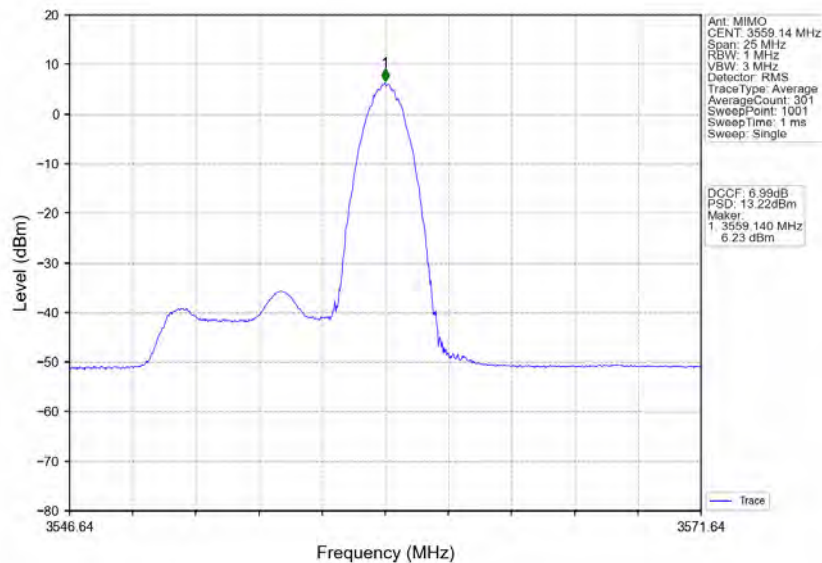
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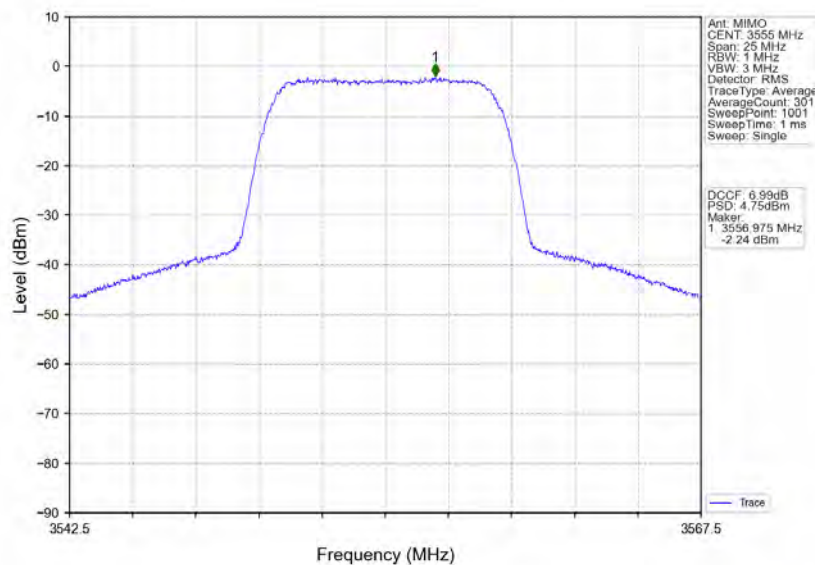
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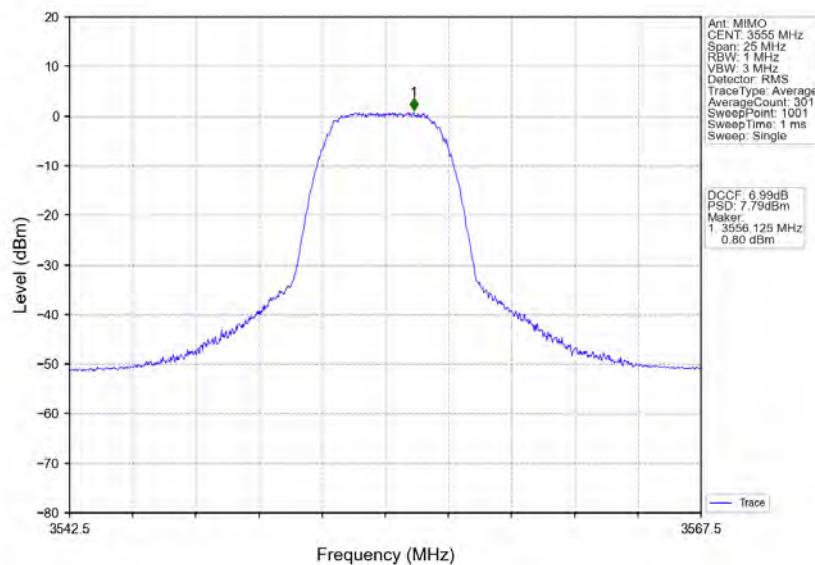
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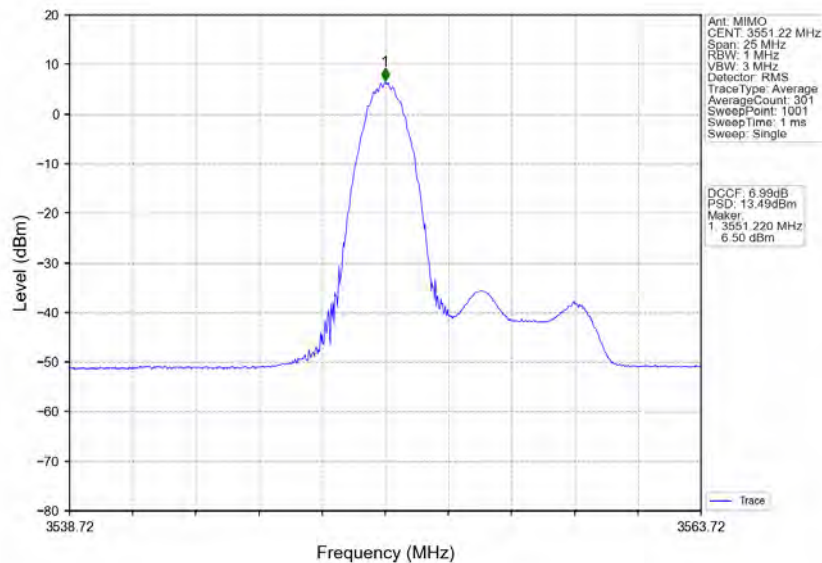
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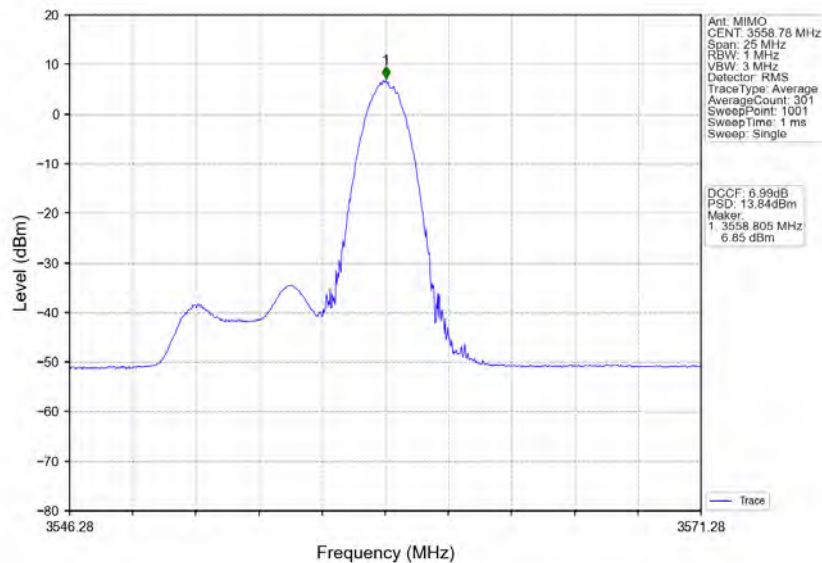
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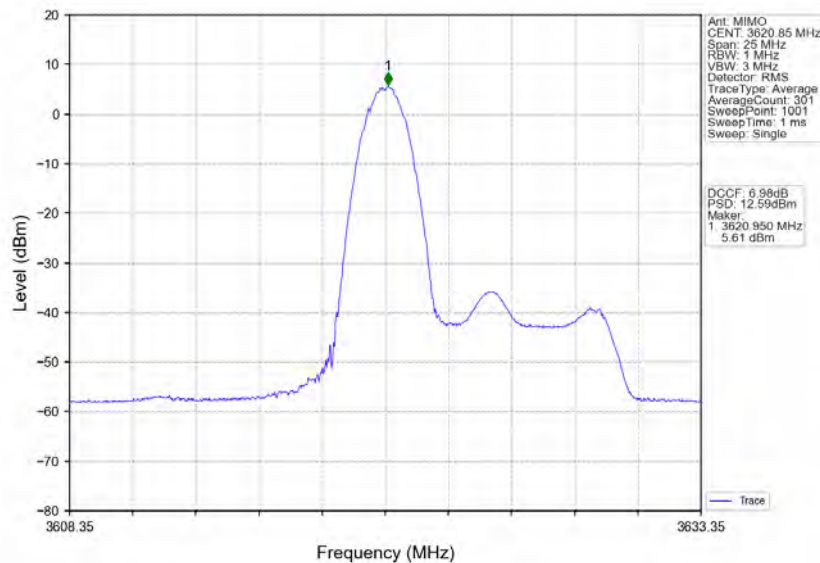
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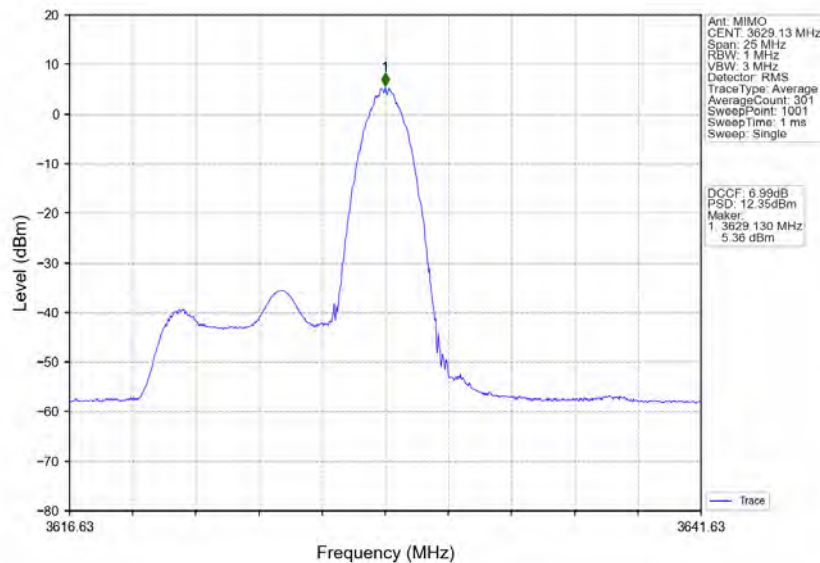
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3624.99MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3624.99MHz_Edge_1RB_Right



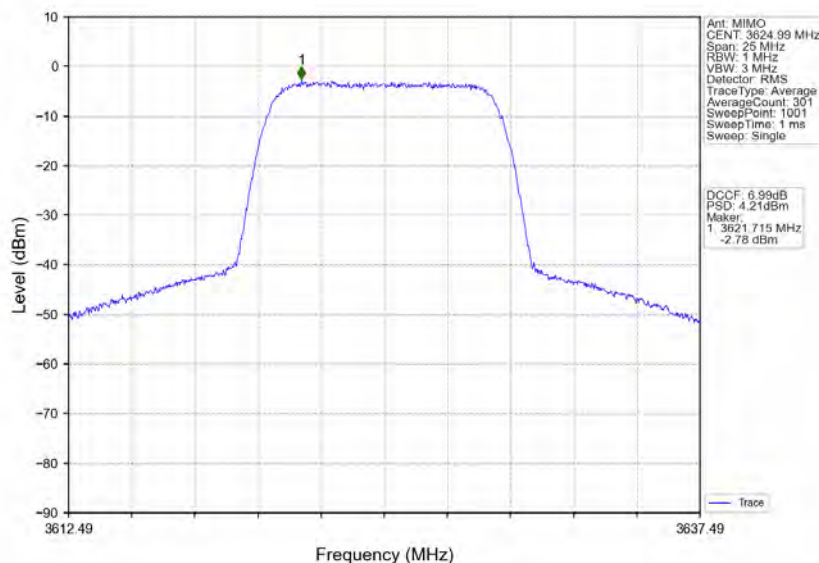
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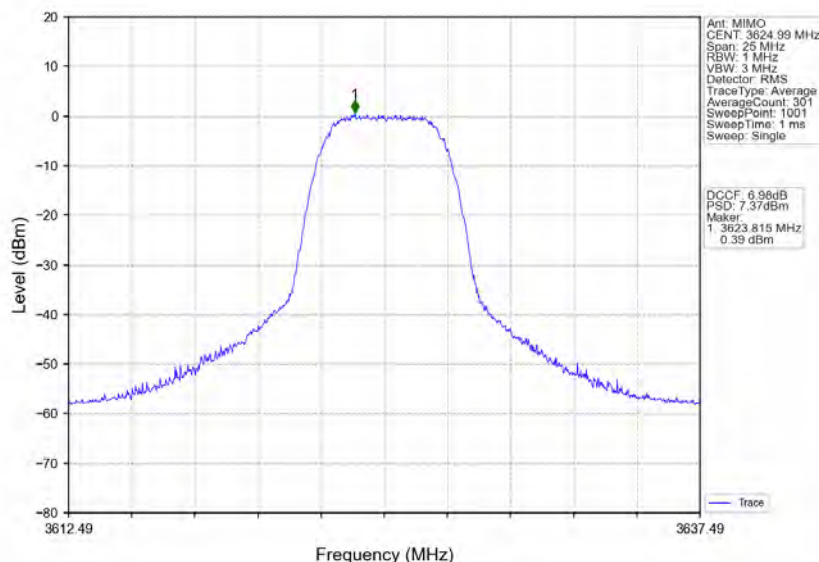
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_Full



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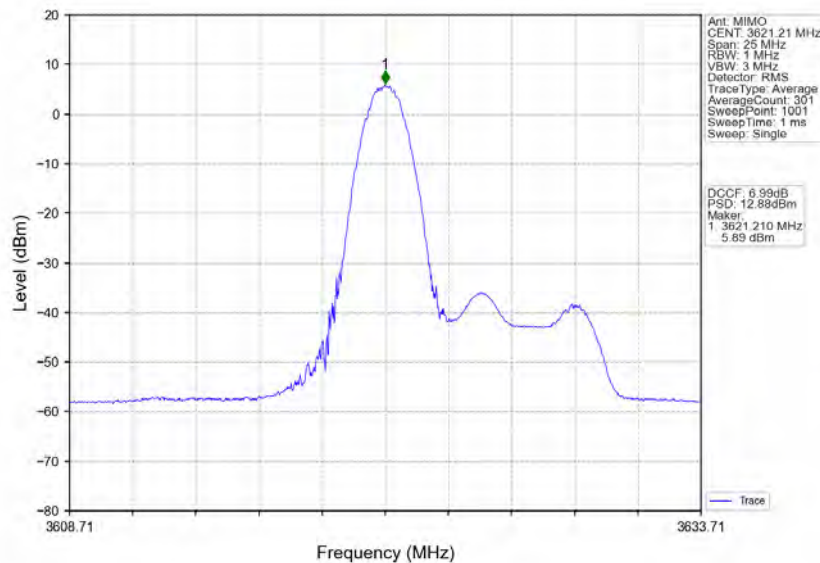
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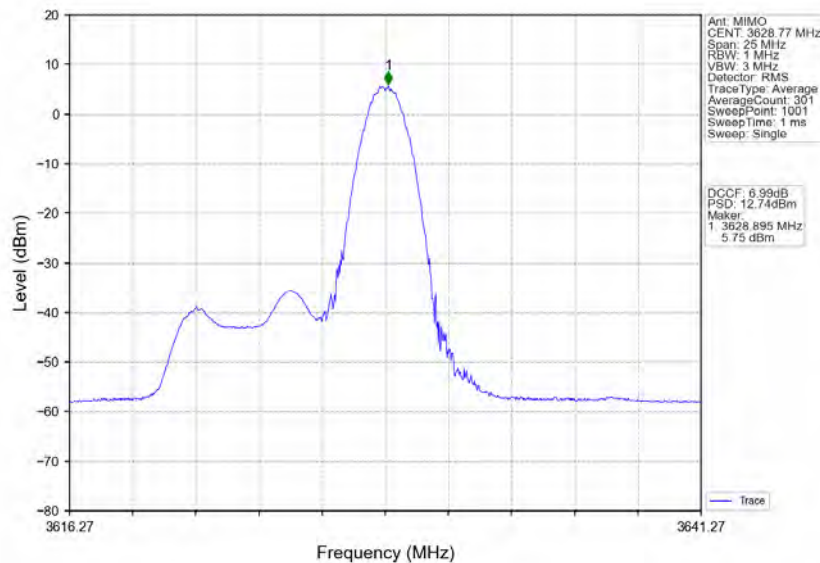
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Right



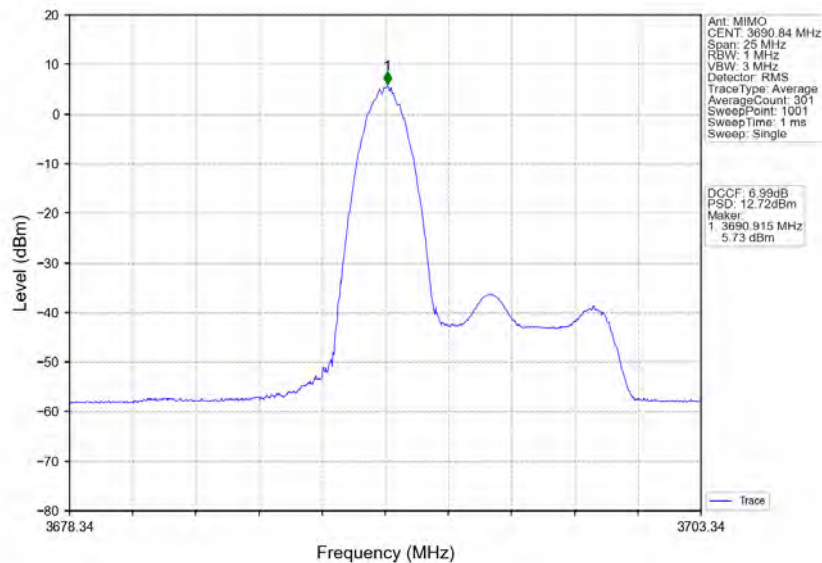
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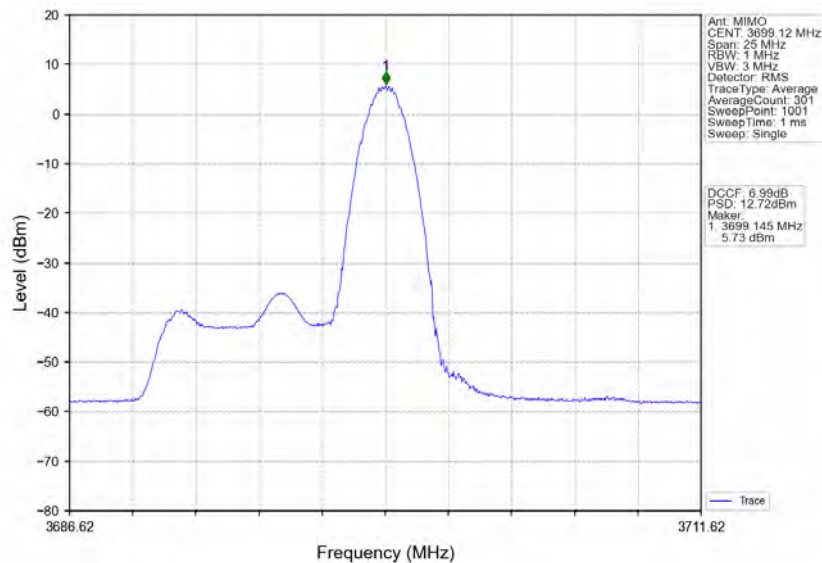
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3694.98MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3694.98MHz_Edge_1RB_Right



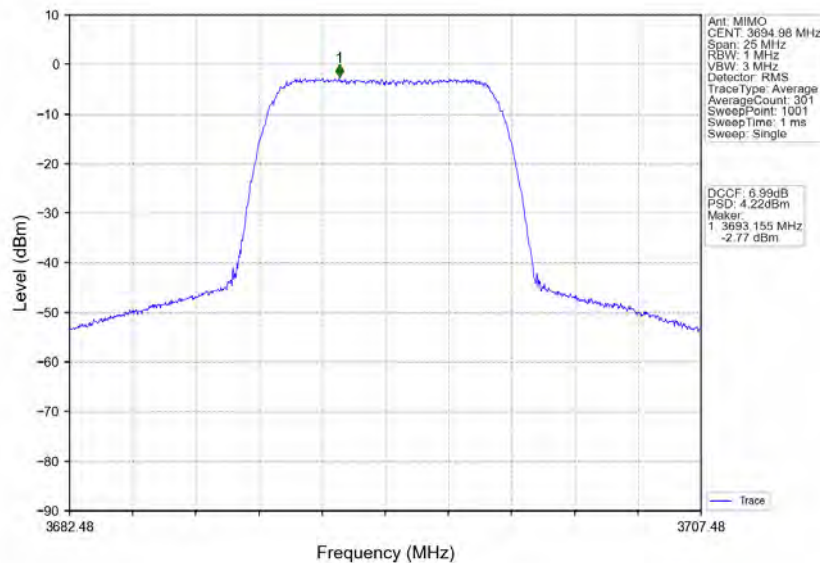
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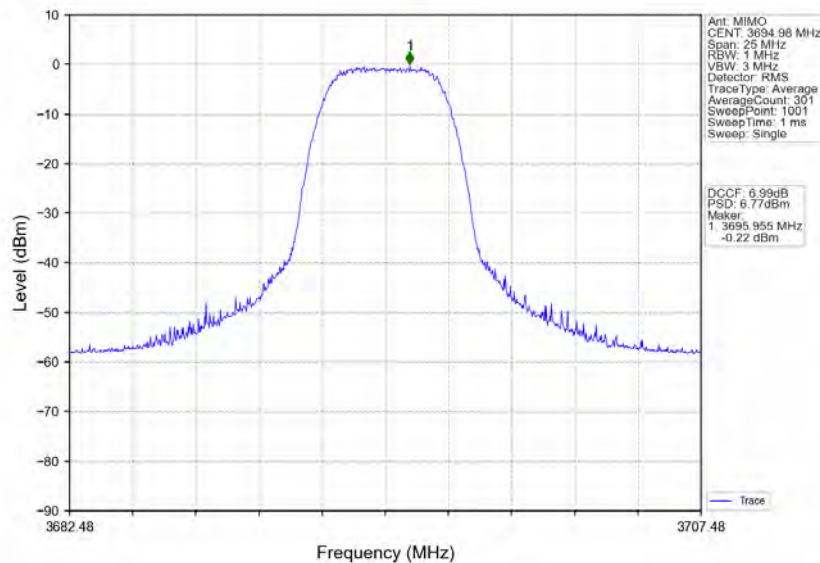
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3694.98MHz_Inner_Full



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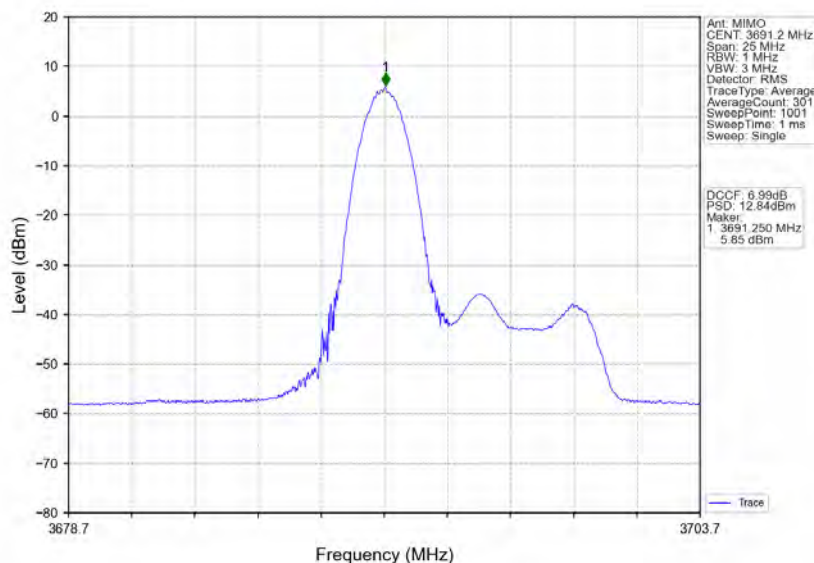
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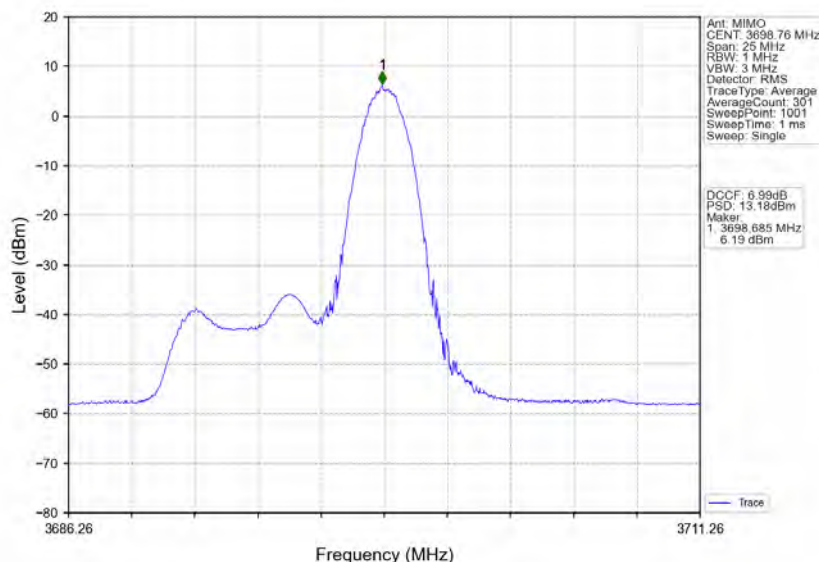
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3694.98MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_256_QAM_3694.98MHz_Inner_1RB_Right



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2.4 30k_MIMO_20MHz_NTNV_EIRP

2.4.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	10.73	10.58	13.66	15.63	16.38	19.03	-	Pass
		Edge_1RB_Right	10.76	10.56	13.67	15.66	16.36	19.03	-	Pass
		Outer_Full	10.68	10.45	13.58	15.58	16.25	18.94	-	Pass
		Inner_Full	10.62	10.57	13.60	15.52	16.37	18.98	-	Pass
		Inner_1RB_Left	10.70	10.60	13.66	15.60	16.40	19.03	-	Pass
		Inner_1RB_Right	10.68	10.56	13.63	15.58	16.36	19.00	-	Pass
	3624.99	Edge_1RB_Left	10.72	10.97	13.86	15.62	16.77	19.24	-	Pass
		Edge_1RB_Right	10.60	10.98	13.80	15.50	16.78	19.20	-	Pass
		Outer_Full	10.63	10.96	13.81	15.53	16.76	19.20	-	Pass
		Inner_Full	10.65	11.11	13.90	15.55	16.91	19.29	-	Pass
		Inner_1RB_Left	10.71	10.98	13.86	15.61	16.78	19.24	-	Pass
		Inner_1RB_Right	10.57	11.05	13.83	15.47	16.85	19.22	-	Pass
	3690	Edge_1RB_Left	10.25	10.52	13.40	15.15	16.32	18.78	-	Pass
		Edge_1RB_Right	10.42	10.66	13.55	15.32	16.46	18.94	-	Pass
		Outer_Full	10.29	10.62	13.47	15.19	16.42	18.86	-	Pass
		Inner_Full	10.28	10.65	13.48	15.18	16.45	18.87	-	Pass
		Inner_1RB_Left	10.23	10.52	13.39	15.13	16.32	18.78	-	Pass
		Inner_1RB_Right	10.47	10.81	13.65	15.37	16.61	19.04	-	Pass
CP-OFDM 16 QAM	3560.01	Edge_1RB_Left	10.70	11.08	13.90	15.60	16.88	19.30	-	Pass
		Edge_1RB_Right	10.75	10.79	13.78	15.65	16.59	19.16	-	Pass
		Outer_Full	10.71	10.43	13.58	15.61	16.23	18.94	-	Pass
		Inner_Full	10.74	10.32	13.55	15.64	16.12	18.90	-	Pass
		Inner_1RB_Left	10.80	10.94	13.88	15.70	16.74	19.26	-	Pass
		Inner_1RB_Right	10.73	11.11	13.94	15.63	16.91	19.33	-	Pass
	3624.99	Edge_1RB_Left	10.81	11.20	14.02	15.71	17.00	19.41	-	Pass
		Edge_1RB_Right	10.59	11.29	13.96	15.49	17.09	19.37	-	Pass
		Outer_Full	10.62	10.81	13.73	15.52	16.61	19.11	-	Pass
		Inner_Full	10.61	10.89	13.76	15.51	16.69	19.15	-	Pass
		Inner_1RB_Left	10.55	11.20	13.90	15.45	17.00	19.30	-	Pass
		Inner_1RB_Right	10.61	11.41	14.04	15.51	17.21	19.45	-	Pass
	3690	Edge_1RB_Left	10.21	10.85	13.55	15.11	16.65	18.96	-	Pass
		Edge_1RB_Right	10.43	11.07	13.77	15.33	16.87	19.18	-	Pass
		Outer_Full	10.30	10.64	13.48	15.20	16.44	18.87	-	Pass
		Inner_Full	10.34	10.64	13.50	15.24	16.44	18.89	-	Pass
		Inner_1RB_Left	10.36	10.85	13.62	15.26	16.65	19.02	-	Pass
		Inner_1RB_Right	10.43	11.00	13.73	15.33	16.80	19.14	-	Pass
CP-OFDM 64 QAM	3560.01	Edge_1RB_Left	10.45	10.59	13.53	15.35	16.39	18.91	-	Pass
		Edge_1RB_Right	10.44	10.56	13.51	15.34	16.36	18.89	-	Pass
		Outer_Full	10.73	10.43	13.59	15.63	16.23	18.95	-	Pass



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CP-OFDM 256 QAM	3624.99	Inner_Full	10.68	10.42	13.56	15.58	16.22	18.92	-	Pass
		Inner_1RB_Left	10.45	10.59	13.53	15.35	16.39	18.91	-	Pass
		Inner_1RB_Right	10.49	10.57	13.54	15.39	16.37	18.92	-	Pass
	3624.99	Edge_1RB_Left	10.33	10.93	13.65	15.23	16.73	19.05	-	Pass
		Edge_1RB_Right	10.30	10.91	13.63	15.20	16.71	19.03	-	Pass
		Outer_Full	10.53	10.95	13.76	15.43	16.75	19.15	-	Pass
		Inner_Full	10.65	10.89	13.78	15.55	16.69	19.17	-	Pass
		Inner_1RB_Left	10.35	11.08	13.74	15.25	16.88	19.15	-	Pass
		Inner_1RB_Right	10.33	11.02	13.70	15.23	16.82	19.11	-	Pass
		Edge_1RB_Left	10.04	10.62	13.35	14.94	16.42	18.75	-	Pass
	3690	Edge_1RB_Right	10.22	10.78	13.52	15.12	16.58	18.92	-	Pass
		Outer_Full	10.39	10.70	13.56	15.29	16.50	18.95	-	Pass
		Inner_Full	10.31	10.71	13.52	15.21	16.51	18.92	-	Pass
		Inner_1RB_Left	10.07	10.60	13.35	14.97	16.40	18.75	-	Pass
		Inner_1RB_Right	10.21	10.82	13.53	15.11	16.62	18.94	-	Pass
		Edge_1RB_Left	10.80	10.62	13.72	15.70	16.42	19.09	-	Pass
	3560.01	Edge_1RB_Right	10.76	10.68	13.73	15.66	16.48	19.10	-	Pass
		Outer_Full	10.74	10.44	13.60	15.64	16.24	18.96	-	Pass
		Inner_Full	10.73	10.46	13.61	15.63	16.26	18.97	-	Pass
		Inner_1RB_Left	10.81	10.59	13.71	15.71	16.39	19.07	-	Pass
		Inner_1RB_Right	10.75	10.65	13.71	15.65	16.45	19.08	-	Pass
		Edge_1RB_Left	10.68	11.01	13.86	15.58	16.81	19.25	-	Pass
	3624.99	Edge_1RB_Right	10.67	11.04	13.87	15.57	16.84	19.26	-	Pass
		Outer_Full	10.55	10.92	13.75	15.45	16.72	19.14	-	Pass
		Inner_Full	10.58	10.89	13.75	15.48	16.69	19.14	-	Pass
		Inner_1RB_Left	10.65	11.03	13.85	15.55	16.83	19.25	-	Pass
		Inner_1RB_Right	10.68	11.02	13.86	15.58	16.82	19.25	-	Pass
		Edge_1RB_Left	10.40	10.66	13.54	15.30	16.46	18.93	-	Pass
	3690	Edge_1RB_Right	10.56	10.83	13.71	15.46	16.63	19.09	-	Pass
		Outer_Full	10.37	10.67	13.53	15.27	16.47	18.92	-	Pass
		Inner_Full	10.34	10.71	13.54	15.24	16.51	18.93	-	Pass
		Inner_1RB_Left	10.38	10.64	13.52	15.28	16.44	18.91	-	Pass
		Inner_1RB_Right	10.49	10.79	13.65	15.39	16.59	19.04	-	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.5 30k_MIMO_20MHz_NTNV_EIRP/10MHz

2.5.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	10.15	10.01	13.09	15.05	15.81	18.46	<=30	Pass
		Edge_1RB_Right	10.24	10.76	13.52	15.14	16.56	18.92	<=30	Pass
		Outer_Full	7.65	7.56	10.62	12.55	13.36	15.98	<=30	Pass
		Inner_Full	10.28	10.75	13.53	15.18	16.55	18.93	<=30	Pass



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		Inner 1RB Left	10.22	10.38	13.31	15.12	16.18	18.69	<=30	Pass
		Inner 1RB Right	9.91	9.53	12.73	14.81	15.33	18.09	<=30	Pass
	3624.99	Edge 1RB Left	10.20	9.94	13.08	15.10	15.74	18.44	<=30	Pass
		Edge 1RB Right	9.33	10.23	12.81	14.23	16.03	18.23	<=30	Pass
		Outer Full	6.57	7.33	9.98	11.47	13.13	15.39	<=30	Pass
		Inner Full	9.37	9.60	12.50	14.27	15.40	17.88	<=30	Pass
		Inner 1RB Left	9.75	10.01	12.89	14.65	15.81	18.28	<=30	Pass
		Inner 1RB Right	10.32	9.13	12.78	15.22	14.93	18.09	<=30	Pass
	3690	Edge 1RB Left	8.80	9.93	12.41	13.70	15.73	17.84	<=30	Pass
		Edge 1RB Right	9.34	10.12	12.76	14.24	15.92	18.17	<=30	Pass
		Outer Full	6.09	6.46	9.29	10.99	12.26	14.68	<=30	Pass
		Inner Full	9.26	8.85	12.07	14.16	14.65	17.42	<=30	Pass
		Inner 1RB Left	8.83	8.86	11.86	13.73	14.66	17.23	<=30	Pass
		Inner 1RB Right	9.09	9.36	12.24	13.99	15.16	17.62	<=30	Pass
CP-OFDM 16 QAM	3560.01	Edge 1RB Left	9.98	11.43	13.78	14.88	17.23	19.22	<=30	Pass
		Edge 1RB Right	9.92	10.44	13.20	14.82	16.24	18.60	<=30	Pass
		Outer Full	6.38	7.86	10.19	11.28	13.66	15.64	<=30	Pass
		Inner Full	10.72	9.84	13.31	15.62	15.64	18.64	<=30	Pass
		Inner 1RB Left	10.24	10.39	13.33	15.14	16.19	18.71	<=30	Pass
		Inner 1RB Right	10.52	10.92	13.73	15.42	16.72	19.13	<=30	Pass
	3624.99	Edge 1RB Left	9.67	10.61	13.18	14.57	16.41	18.60	<=30	Pass
		Edge 1RB Right	9.13	9.71	12.44	14.03	15.51	17.84	<=30	Pass
		Outer Full	6.91	7.10	10.02	11.81	12.90	15.40	<=30	Pass
		Inner Full	9.98	9.67	12.84	14.88	15.47	18.20	<=30	Pass
		Inner 1RB Left	9.06	10.22	12.69	13.96	16.02	18.12	<=30	Pass
		Inner 1RB Right	8.93	9.96	12.49	13.83	15.76	17.91	<=30	Pass
	3690	Edge 1RB Left	8.46	9.24	11.88	13.36	15.04	17.29	<=30	Pass
		Edge 1RB Right	8.90	10.60	12.84	13.80	16.40	18.30	<=30	Pass
		Outer Full	6.30	7.09	9.72	11.20	12.89	15.14	<=30	Pass
		Inner Full	8.63	8.95	11.80	13.53	14.75	17.19	<=30	Pass
		Inner 1RB Left	8.75	9.75	12.29	13.65	15.55	17.71	<=30	Pass
		Inner 1RB Right	9.28	9.92	12.62	14.18	15.72	18.03	<=30	Pass
CP-OFDM 64 QAM	3560.01	Edge 1RB Left	10.42	10.23	13.34	15.32	16.03	18.70	<=30	Pass
		Edge 1RB Right	9.88	9.92	12.91	14.78	15.72	18.29	<=30	Pass
		Outer Full	7.49	8.23	10.89	12.39	14.03	16.30	<=30	Pass
		Inner Full	10.32	10.15	13.25	15.22	15.95	18.61	<=30	Pass
		Inner 1RB Left	10.27	10.55	13.42	15.17	16.35	18.81	<=30	Pass
		Inner 1RB Right	10.41	9.49	12.98	15.31	15.29	18.31	<=30	Pass
	3624.99	Edge 1RB Left	9.44	9.70	12.58	14.34	15.50	17.97	<=30	Pass
		Edge 1RB Right	8.77	9.54	12.18	13.67	15.34	17.60	<=30	Pass
		Outer Full	7.17	6.97	10.08	12.07	12.77	15.44	<=30	Pass
		Inner Full	9.91	9.81	12.87	14.81	15.61	18.24	<=30	Pass
		Inner 1RB Left	9.33	9.22	12.29	14.23	15.02	17.65	<=30	Pass
		Inner 1RB Right	9.29	9.88	12.61	14.19	15.68	18.01	<=30	Pass
	3690	Edge 1RB Left	8.35	9.35	11.89	13.25	15.15	17.31	<=30	Pass
		Edge 1RB Right	9.27	9.78	12.54	14.17	15.58	17.94	<=30	Pass
		Outer Full	5.98	7.05	9.56	10.88	12.85	14.99	<=30	Pass
		Inner Full	8.89	9.31	12.12	13.79	15.11	17.51	<=30	Pass
		Inner 1RB Left	9.18	9.58	12.39	14.08	15.38	17.79	<=30	Pass
		Inner 1RB Right	9.26	10.00	12.66	14.16	15.80	18.07	<=30	Pass
CP-OFDM 256 QAM	3560.01	Edge 1RB Left	10.58	10.29	13.45	15.48	16.09	18.81	<=30	Pass
		Edge 1RB Right	10.28	10.76	13.54	15.18	16.56	18.93	<=30	Pass
		Outer Full	7.36	7.53	10.46	12.26	13.33	15.84	<=30	Pass
		Inner Full	10.18	10.24	13.22	15.08	16.04	18.60	<=30	Pass

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		Inner_1RB_Left	10.23	10.04	13.15	15.13	15.84	18.51	<=30	Pass
		Inner_1RB_Right	10.14	10.41	13.29	15.04	16.21	18.67	<=30	Pass
	3624.99	Edge_1RB_Left	9.39	10.20	12.82	14.29	16.00	18.24	<=30	Pass
		Edge_1RB_Right	9.29	9.94	12.64	14.19	15.74	18.04	<=30	Pass
		Outer_Full	7.08	7.60	10.36	11.98	13.40	15.76	<=30	Pass
		Inner_Full	10.12	9.84	12.99	15.02	15.64	18.35	<=30	Pass
		Inner_1RB_Left	9.19	10.01	12.63	14.09	15.81	18.04	<=30	Pass
		Inner_1RB_Right	8.62	9.78	12.25	13.52	15.58	17.68	<=30	Pass
	3690	Edge_1RB_Left	9.69	9.90	12.81	14.59	15.70	18.19	<=30	Pass
		Edge_1RB_Right	9.19	9.21	12.21	14.09	15.01	17.58	<=30	Pass
		Outer_Full	6.98	7.22	10.11	11.88	13.02	15.50	<=30	Pass
		Inner_Full	9.60	9.94	12.78	14.50	15.74	18.17	<=30	Pass
		Inner_1RB_Left	9.52	9.51	12.53	14.42	15.31	17.90	<=30	Pass
		Inner_1RB_Right	8.98	9.02	12.01	13.88	14.82	17.39	<=30	Pass
Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi; Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2										

2.6 30k_MIMO_20MHz_NTNV_PSD

2.6.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge 1RB Left	10.15	10.01	12.87	15.05	15.81	18.67	<=20	Pass
		Edge 1RB Right	10.24	10.76	13.31	15.14	16.56	19.11	<=20	Pass
		Outer Full	7.65	7.56	1.57	12.55	13.36	7.37	<=20	Pass
		Inner Full	10.28	10.75	4.25	15.18	16.55	10.05	<=20	Pass
		Inner 1RB Left	10.22	10.38	13.20	15.12	16.18	19.00	<=20	Pass
		Inner 1RB Right	9.91	9.53	13.28	14.81	15.33	19.08	<=20	Pass
	3624.99	Edge 1RB Left	10.20	9.94	13.32	15.10	15.74	19.12	<=20	Pass
		Edge 1RB Right	9.33	10.23	12.45	14.23	16.03	18.25	<=20	Pass
		Outer Full	6.57	7.33	1.23	11.47	13.13	7.03	<=20	Pass
		Inner Full	9.37	9.60	4.26	14.27	15.40	10.06	<=20	Pass
		Inner 1RB Left	9.75	10.01	12.81	14.65	15.81	18.61	<=20	Pass
		Inner 1RB Right	10.32	9.13	12.33	15.22	14.93	18.13	<=20	Pass
	3690	Edge 1RB Left	8.80	9.93	12.42	13.70	15.73	18.22	<=20	Pass
		Edge 1RB Right	9.34	10.12	13.02	14.24	15.92	18.82	<=20	Pass
		Outer Full	6.09	6.46	0.68	10.99	12.26	6.48	<=20	Pass
		Inner Full	9.26	8.85	3.89	14.16	14.65	9.69	<=20	Pass
		Inner 1RB Left	8.83	8.86	11.67	13.73	14.66	17.47	<=20	Pass
		Inner 1RB Right	9.09	9.36	12.53	13.99	15.16	18.33	<=20	Pass
CP-OFDM 16 QAM	3560.01	Edge 1RB Left	9.98	11.43	13.32	14.88	17.23	19.12	<=20	Pass
		Edge 1RB Right	9.92	10.44	13.99	14.82	16.24	19.79	<=20	Pass
		Outer Full	6.38	7.86	1.35	11.28	13.66	7.15	<=20	Pass
		Inner Full	10.72	9.84	4.88	15.62	15.64	10.68	<=20	Pass
		Inner 1RB Left	10.24	10.39	12.98	15.14	16.19	18.78	<=20	Pass
		Inner 1RB Right	10.52	10.92	13.48	15.42	16.72	19.28	<=20	Pass
	3624.99	Edge 1RB Left	9.67	10.61	12.58	14.57	16.41	18.38	<=20	Pass
		Edge 1RB Right	9.13	9.71	12.67	14.03	15.51	18.47	<=20	Pass
		Outer Full	6.91	7.10	1.03	11.81	12.90	6.83	<=20	Pass



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		Inner_Full	9.98	9.67	3.88	14.88	15.47	9.68	<=20	Pass
		Inner_1RB_Left	9.06	10.22	12.98	13.96	16.02	18.78	<=20	Pass
		Inner_1RB_Right	8.93	9.96	12.91	13.83	15.76	18.71	<=20	Pass
	3690	Edge_1RB_Left	8.46	9.24	12.35	13.36	15.04	18.15	<=20	Pass
		Edge_1RB_Right	8.90	10.60	13.38	13.80	16.40	19.18	<=20	Pass
		Outer_Full	6.30	7.09	0.74	11.20	12.89	6.54	<=20	Pass
		Inner_Full	8.63	8.95	3.86	13.53	14.75	9.66	<=20	Pass
		Inner_1RB_Left	8.75	9.75	12.42	13.65	15.55	18.22	<=20	Pass
		Inner_1RB_Right	9.28	9.92	13.29	14.18	15.72	19.09	<=20	Pass
		Edge_1RB_Left	10.42	10.23	13.74	15.32	16.03	19.54	<=20	Pass
CP-OFDM 64 QAM	3560.01	Edge_1RB_Right	9.88	9.92	13.53	14.78	15.72	19.33	<=20	Pass
		Outer_Full	7.49	8.23	1.83	12.39	14.03	7.63	<=20	Pass
		Inner_Full	10.32	10.15	4.57	15.22	15.95	10.37	<=20	Pass
		Inner_1RB_Left	10.27	10.55	13.37	15.17	16.35	19.17	<=20	Pass
		Inner_1RB_Right	10.41	9.49	13.12	15.31	15.29	18.92	<=20	Pass
		Edge_1RB_Left	9.44	9.70	12.32	14.34	15.50	18.12	<=20	Pass
	3624.99	Edge_1RB_Right	8.77	9.54	13.02	13.67	15.34	18.82	<=20	Pass
		Outer_Full	7.17	6.97	1.03	12.07	12.77	6.83	<=20	Pass
		Inner_Full	9.91	9.81	3.77	14.81	15.61	9.57	<=20	Pass
		Inner_1RB_Left	9.33	9.22	13.28	14.23	15.02	19.08	<=20	Pass
		Inner_1RB_Right	9.29	9.88	12.09	14.19	15.68	17.89	<=20	Pass
		Edge_1RB_Left	8.35	9.35	12.53	13.25	15.15	18.33	<=20	Pass
	3690	Edge_1RB_Right	9.27	9.78	12.14	14.17	15.58	17.94	<=20	Pass
		Outer_Full	5.98	7.05	0.95	10.88	12.85	6.75	<=20	Pass
		Inner_Full	8.89	9.31	3.69	13.79	15.11	9.49	<=20	Pass
		Inner_1RB_Left	9.18	9.58	12.09	14.08	15.38	17.89	<=20	Pass
		Inner_1RB_Right	9.26	10.00	12.37	14.16	15.80	18.17	<=20	Pass
		Edge_1RB_Left	10.58	10.29	13.24	15.48	16.09	19.04	<=20	Pass
CP-OFDM 256 QAM	3560.01	Edge_1RB_Right	10.28	10.76	13.89	15.18	16.56	19.69	<=20	Pass
		Outer_Full	7.36	7.53	1.57	12.26	13.33	7.37	<=20	Pass
		Inner_Full	10.18	10.24	4.60	15.08	16.04	10.40	<=20	Pass
		Inner_1RB_Left	10.23	10.04	13.37	15.13	15.84	19.17	<=20	Pass
		Inner_1RB_Right	10.14	10.41	13.66	15.04	16.21	19.46	<=20	Pass
		Edge_1RB_Left	9.39	10.20	13.04	14.29	16.00	18.84	<=20	Pass
	3624.99	Edge_1RB_Right	9.29	9.94	12.71	14.19	15.74	18.51	<=20	Pass
		Outer_Full	7.08	7.60	1.34	11.98	13.40	7.14	<=20	Pass
		Inner_Full	10.12	9.84	3.97	15.02	15.64	9.77	<=20	Pass
		Inner_1RB_Left	9.19	10.01	12.80	14.09	15.81	18.60	<=20	Pass
		Inner_1RB_Right	8.62	9.78	12.09	13.52	15.58	17.89	<=20	Pass
		Edge_1RB_Left	9.69	9.90	12.36	14.59	15.70	18.16	<=20	Pass
	3690	Edge_1RB_Right	9.19	9.21	12.63	14.09	15.01	18.43	<=20	Pass
		Outer_Full	6.98	7.22	0.89	11.88	13.02	6.69	<=20	Pass
		Inner_Full	9.60	9.94	3.85	14.50	15.74	9.65	<=20	Pass
		Inner_1RB_Left	9.52	9.51	12.25	14.42	15.31	18.05	<=20	Pass
		Inner_1RB_Right	8.98	9.02	12.59	13.88	14.82	18.39	<=20	Pass
		Edge_1RB_Left	10.58	10.29	13.24	15.48	16.09	19.04	<=20	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;

Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2



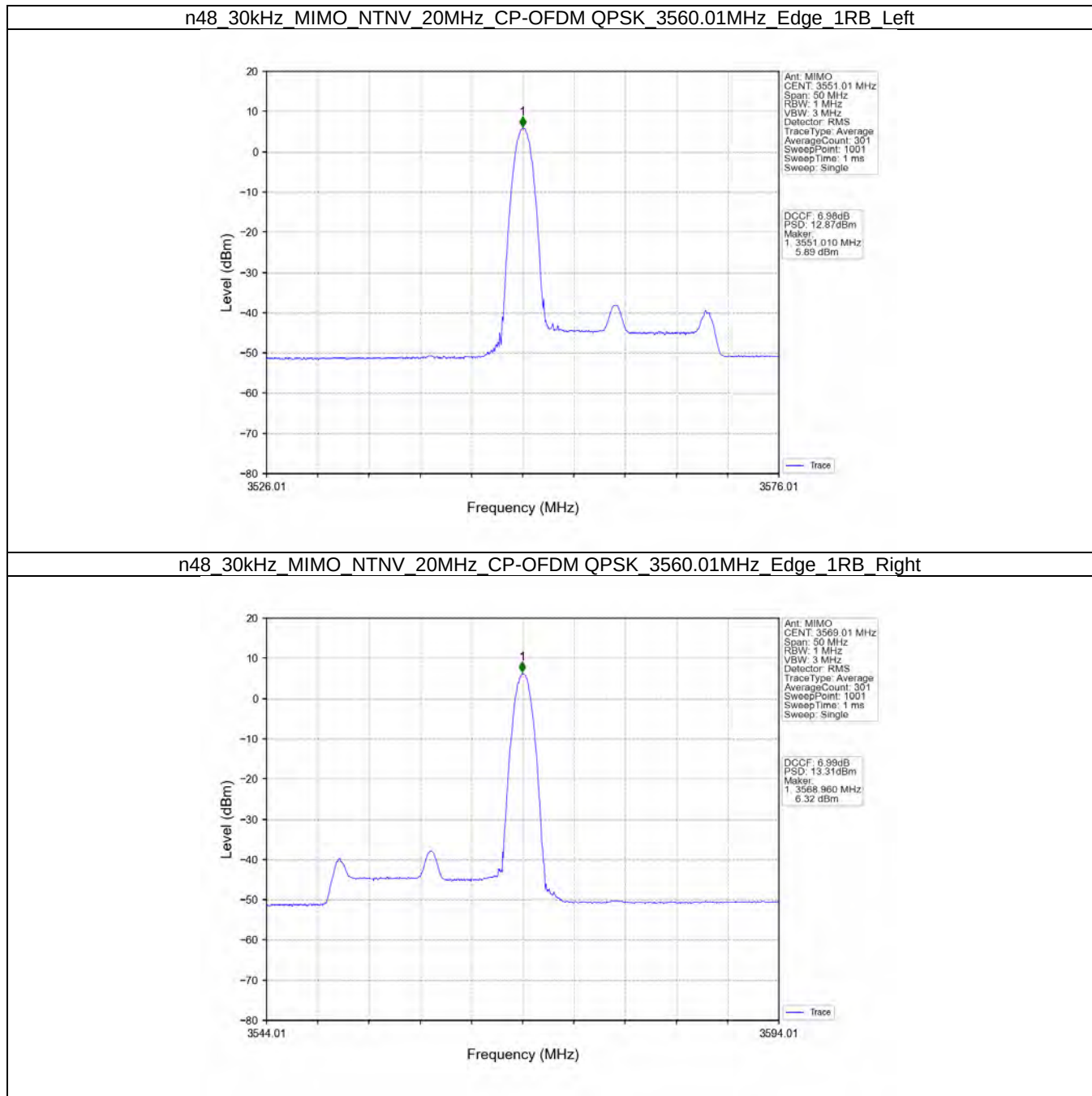
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2.6.2 Test Graph



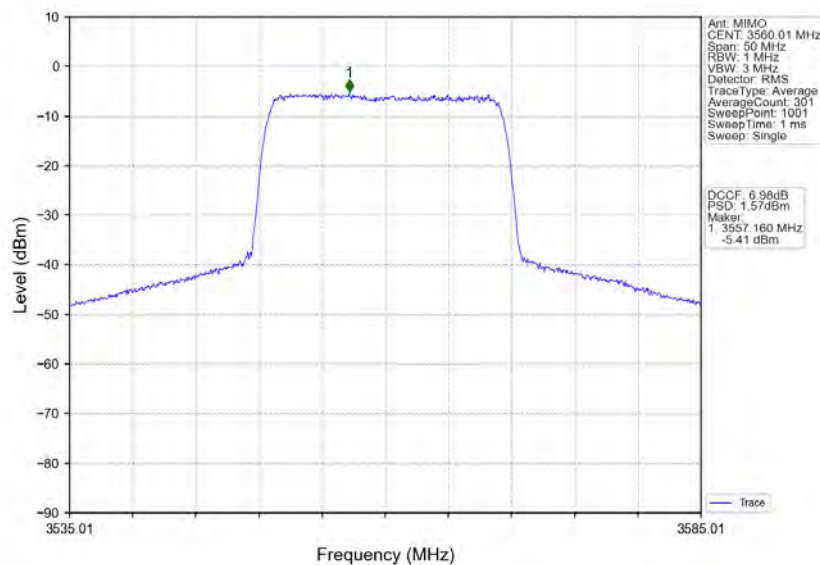
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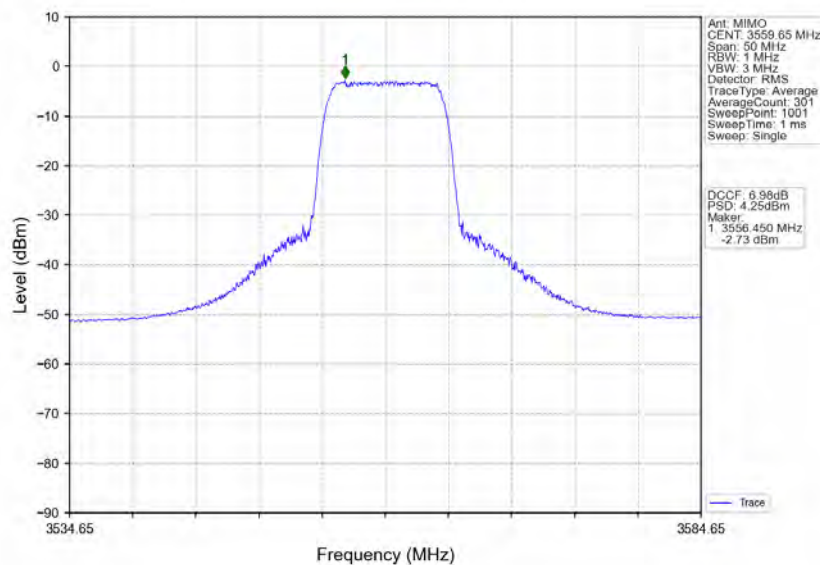
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Inner_Full



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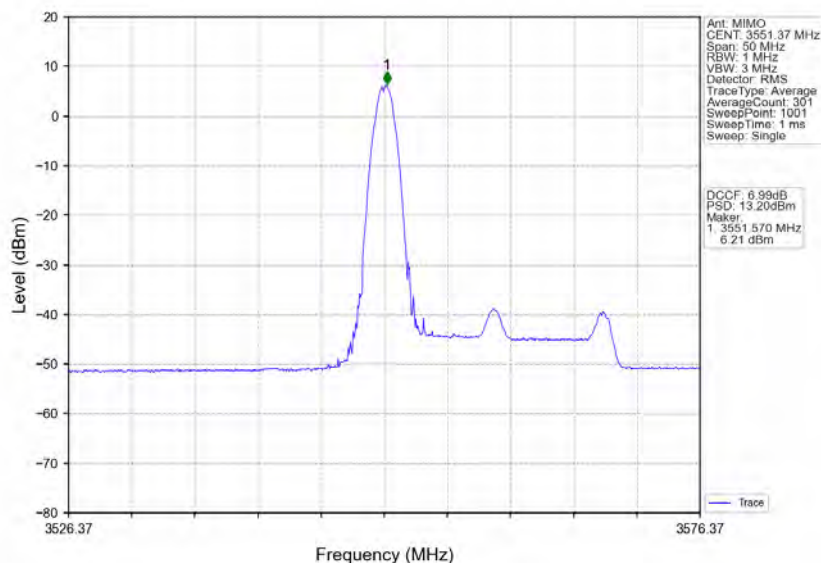
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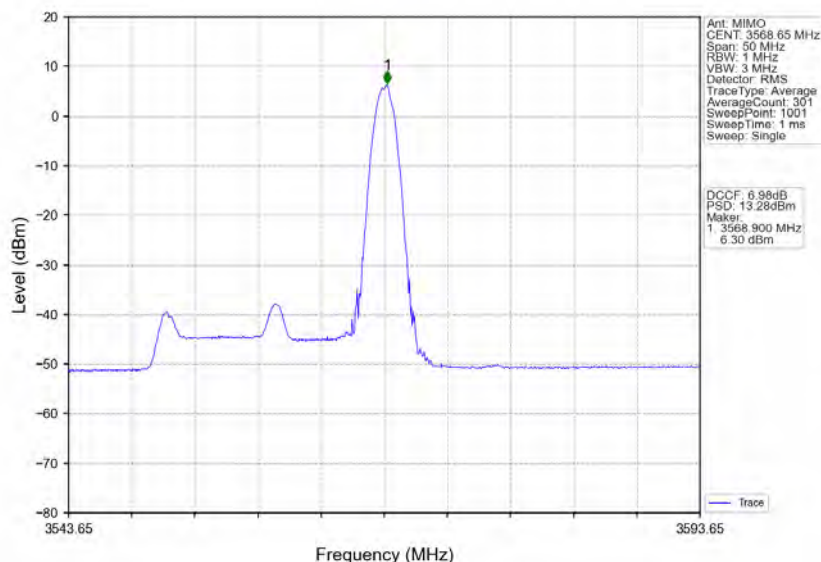
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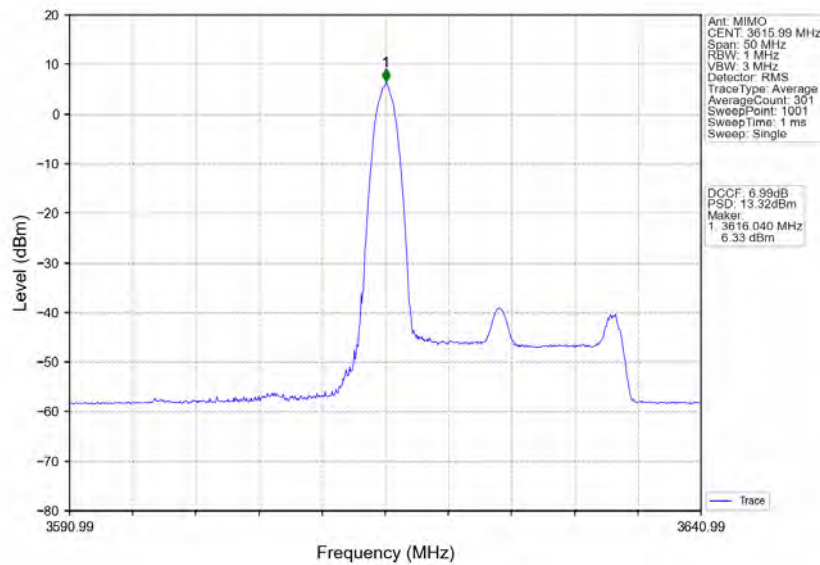
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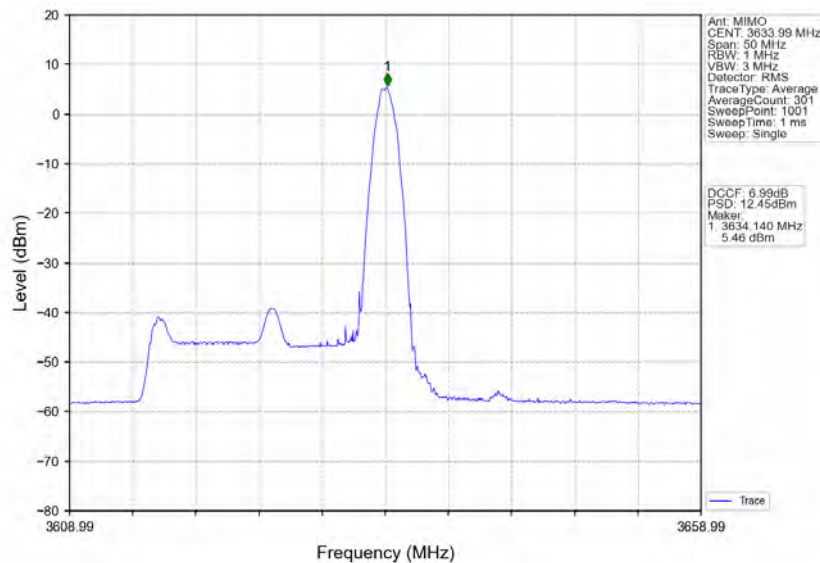
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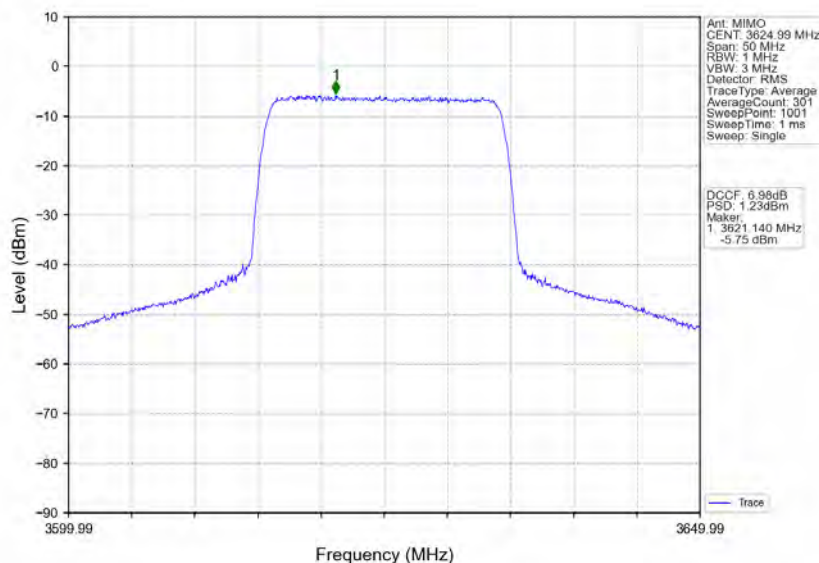
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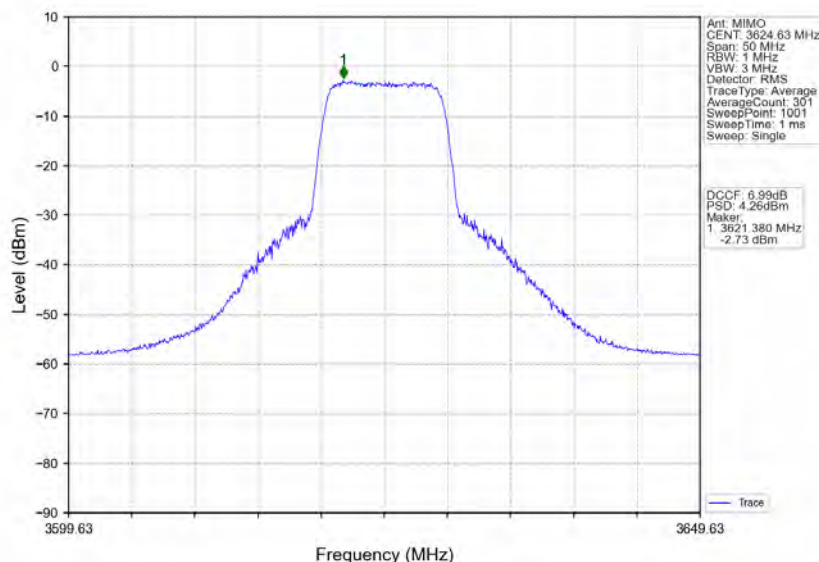
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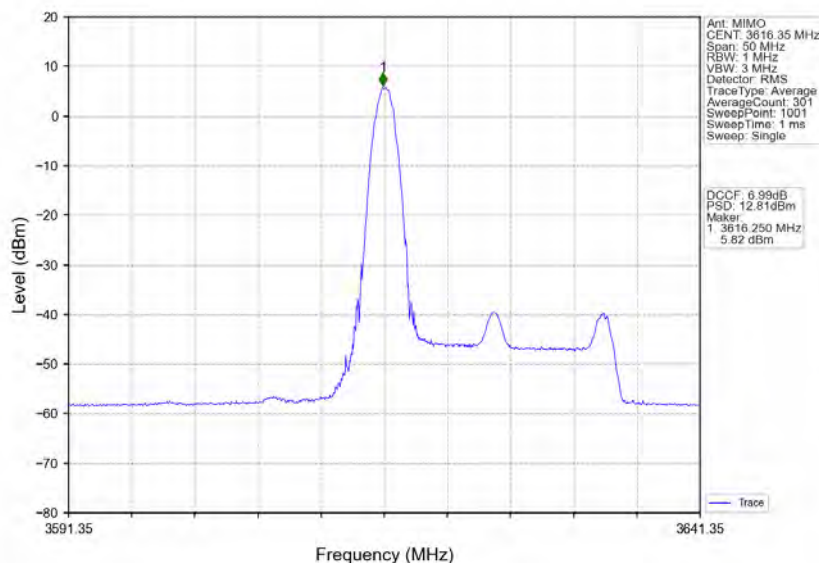
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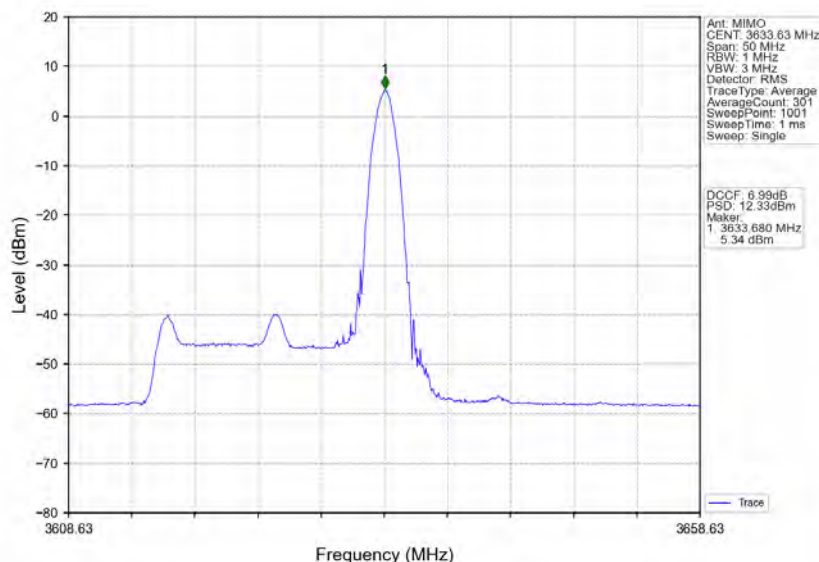
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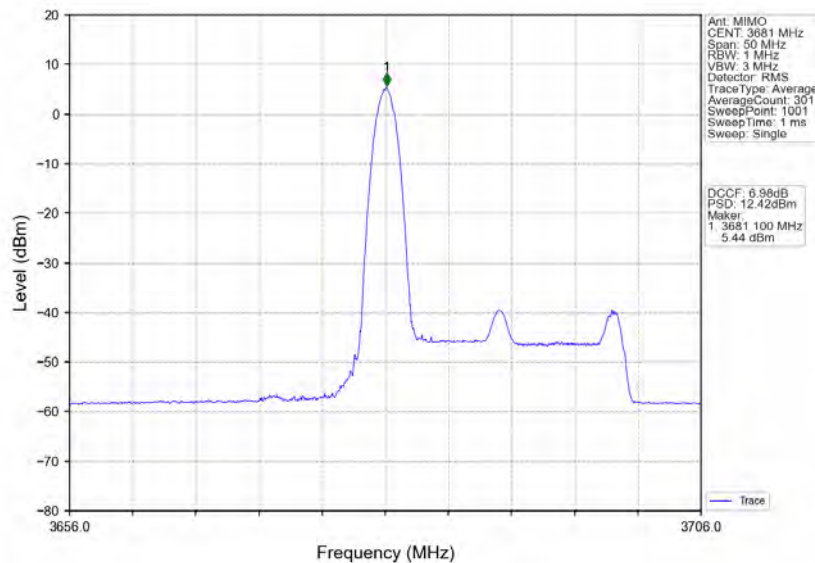
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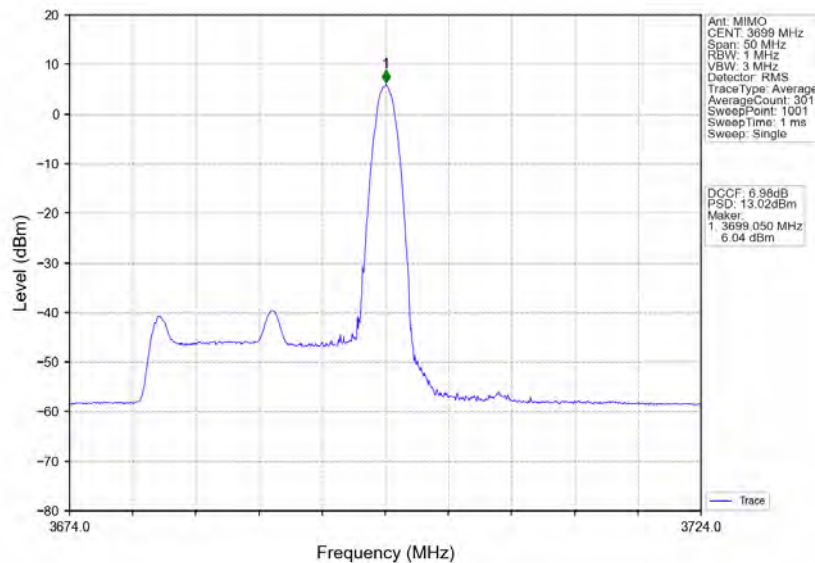
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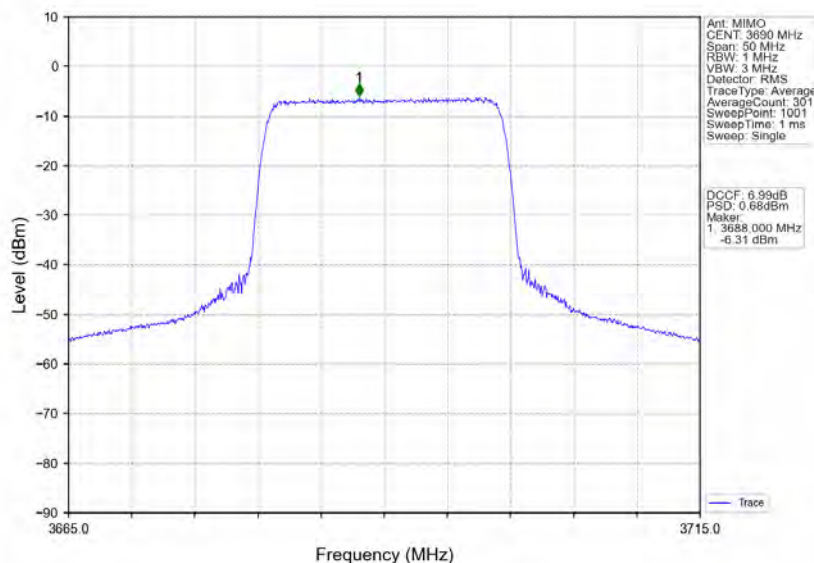
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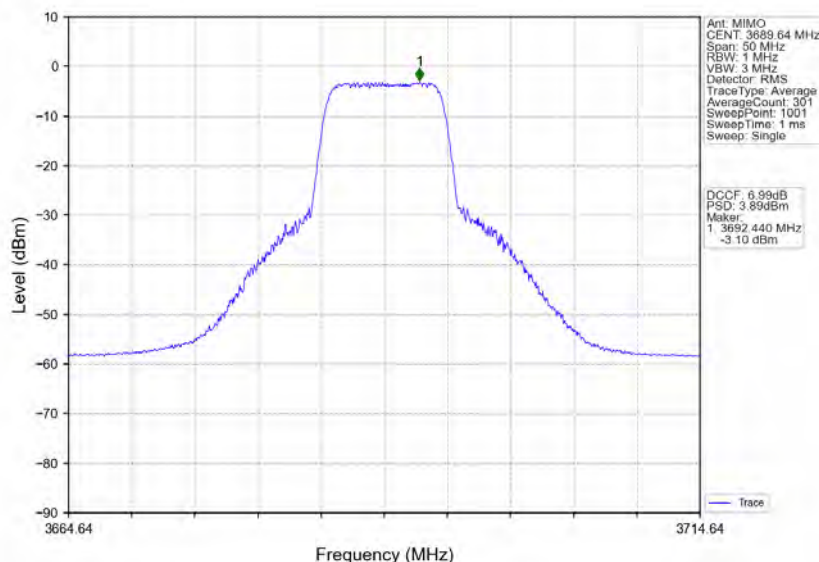
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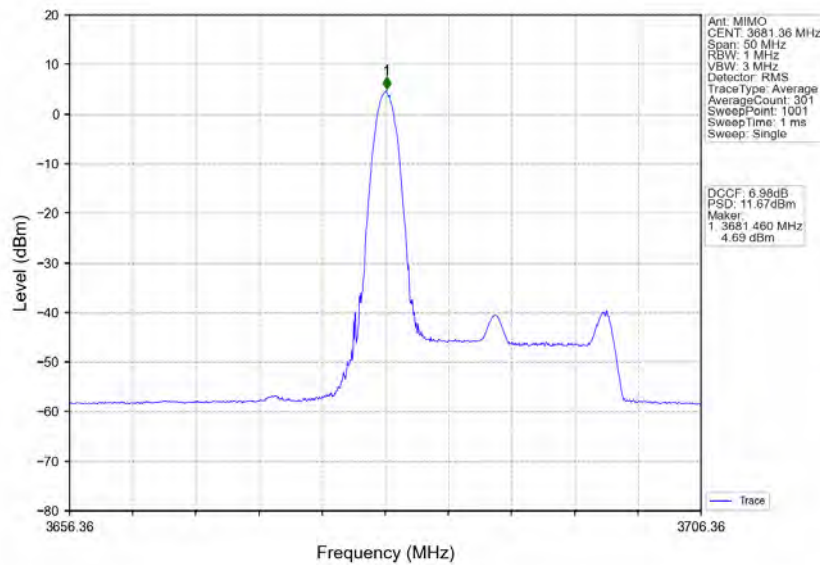
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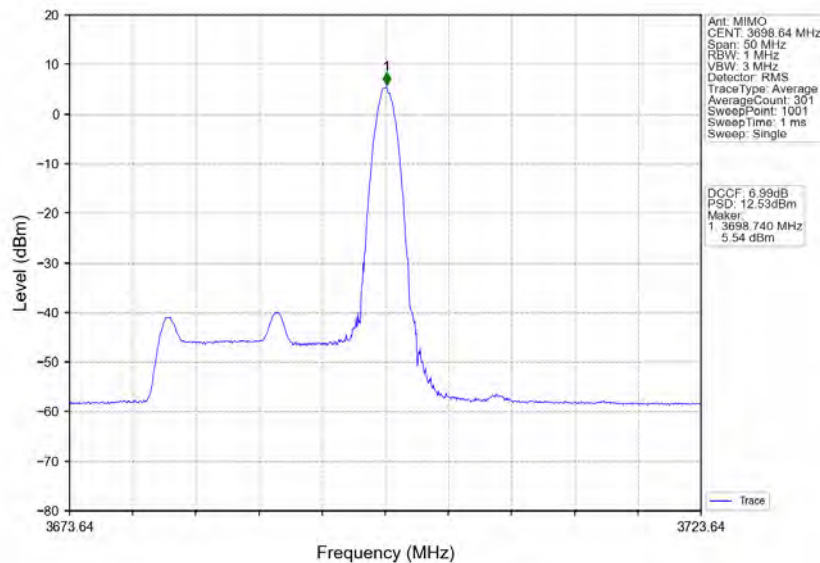
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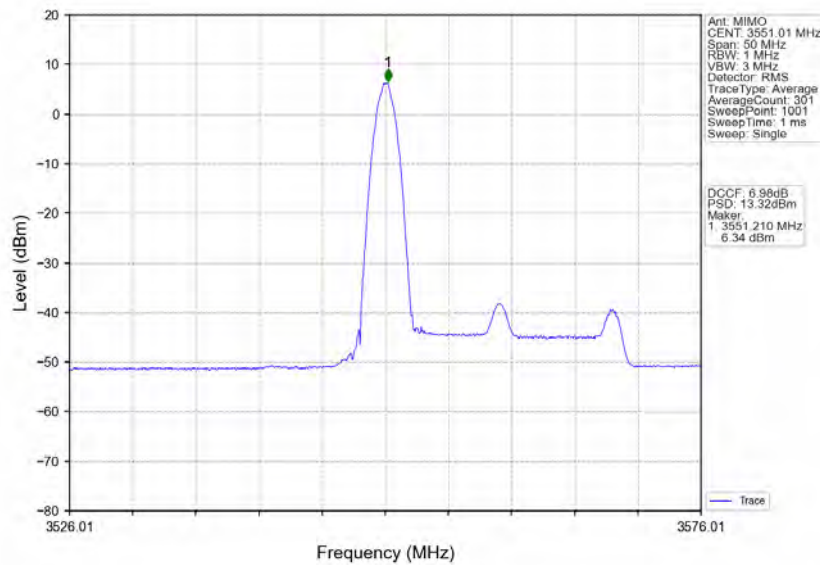
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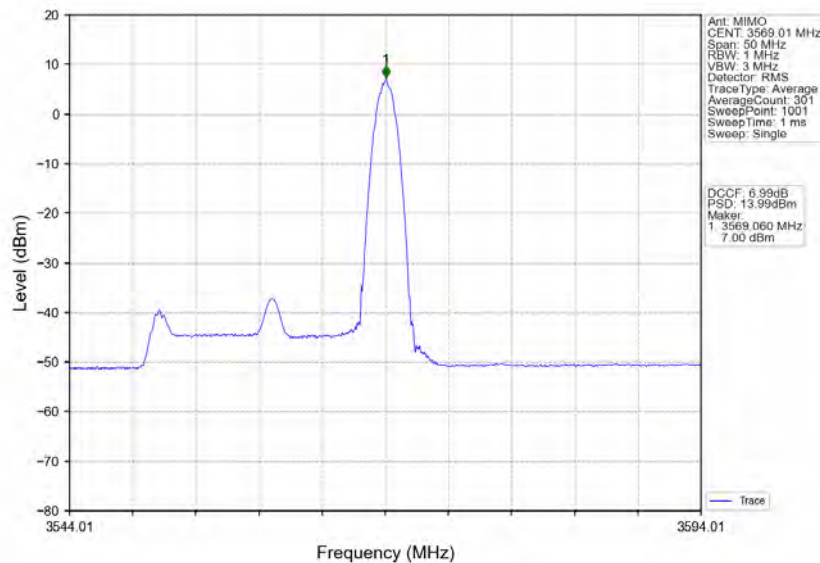
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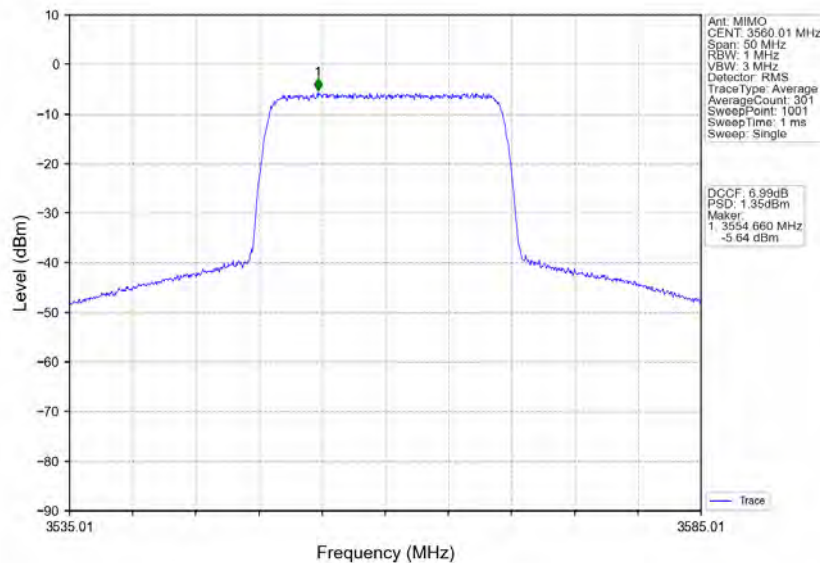
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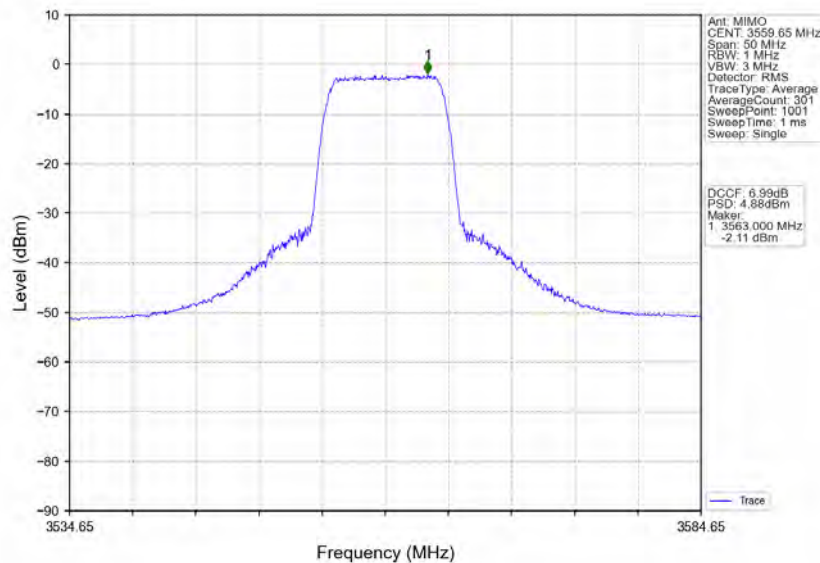
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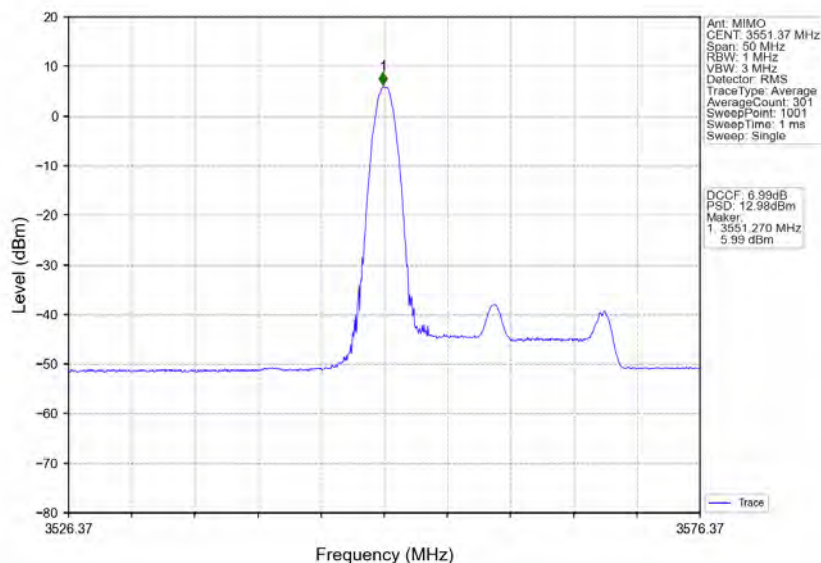
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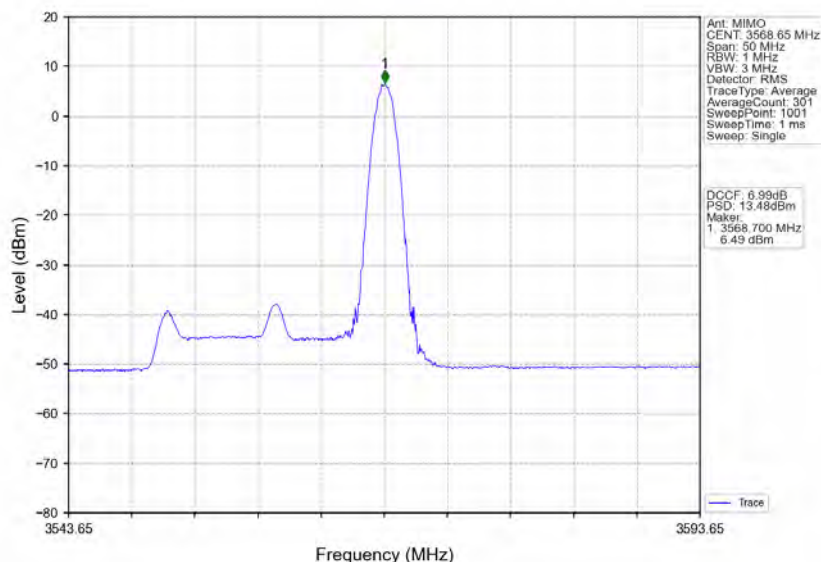
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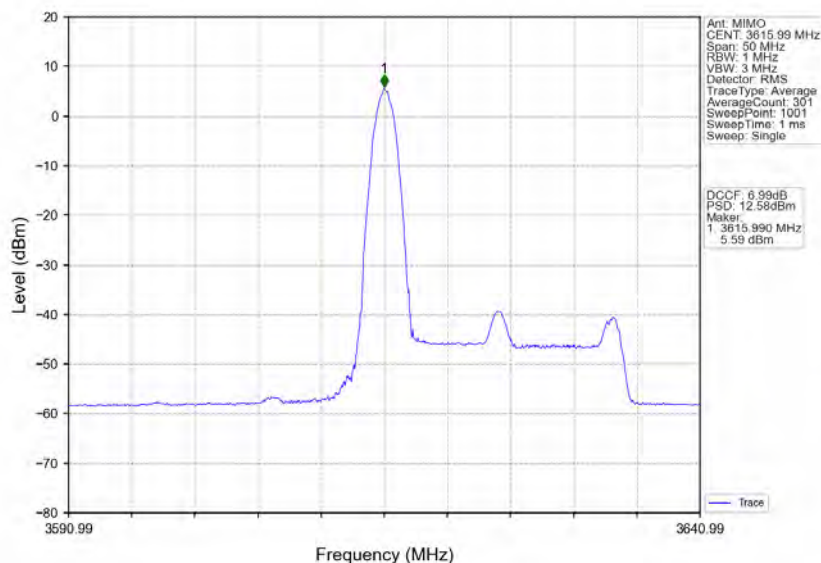
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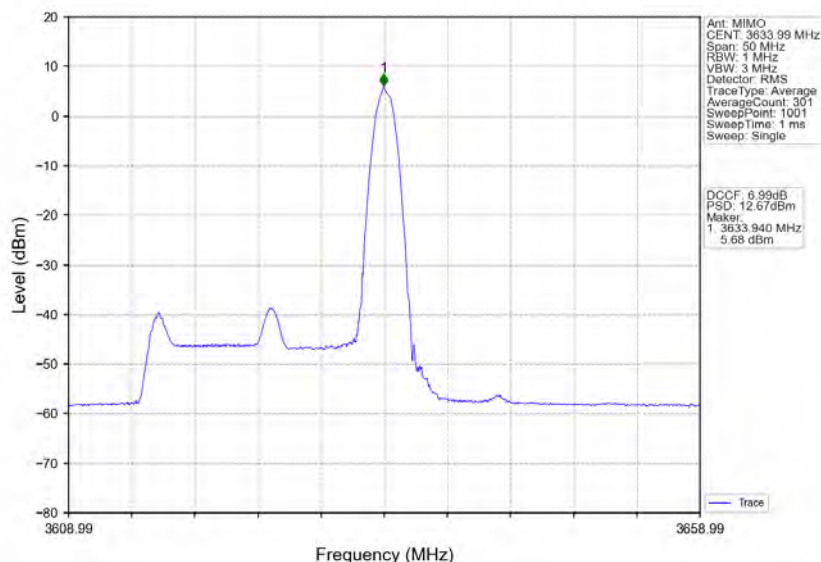
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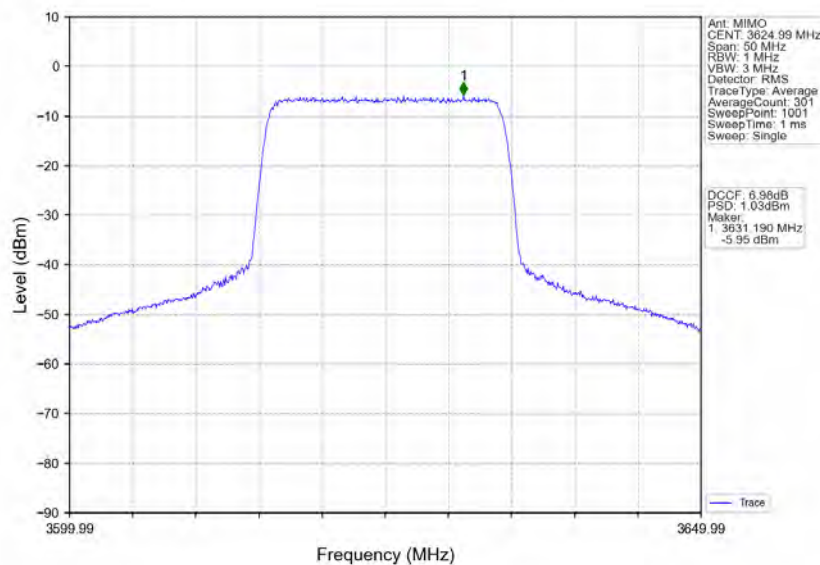
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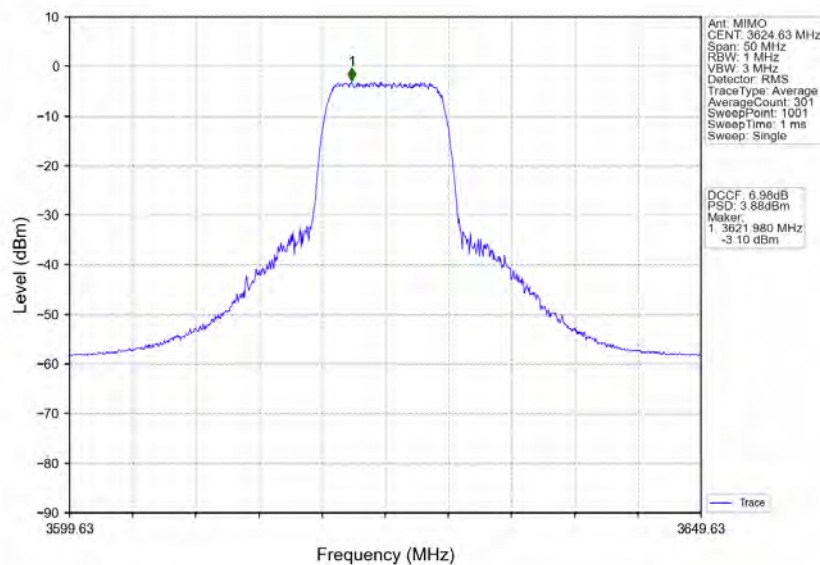
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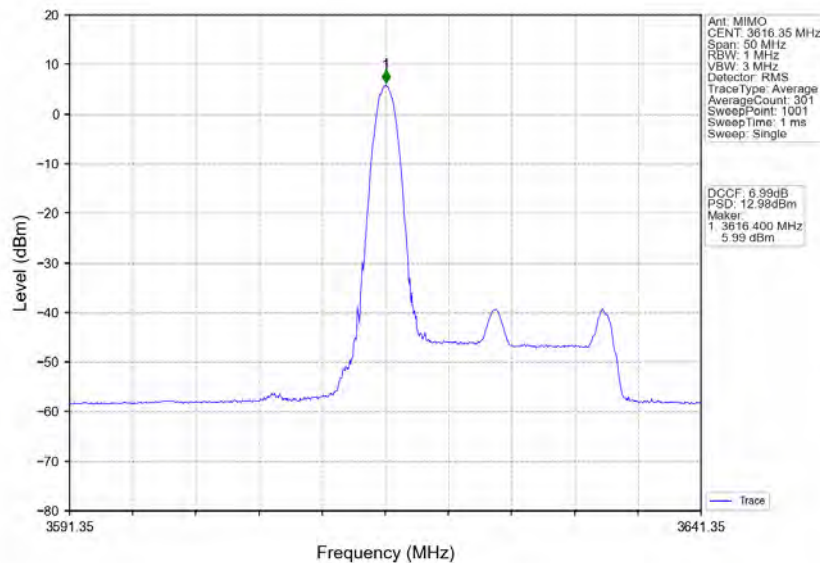
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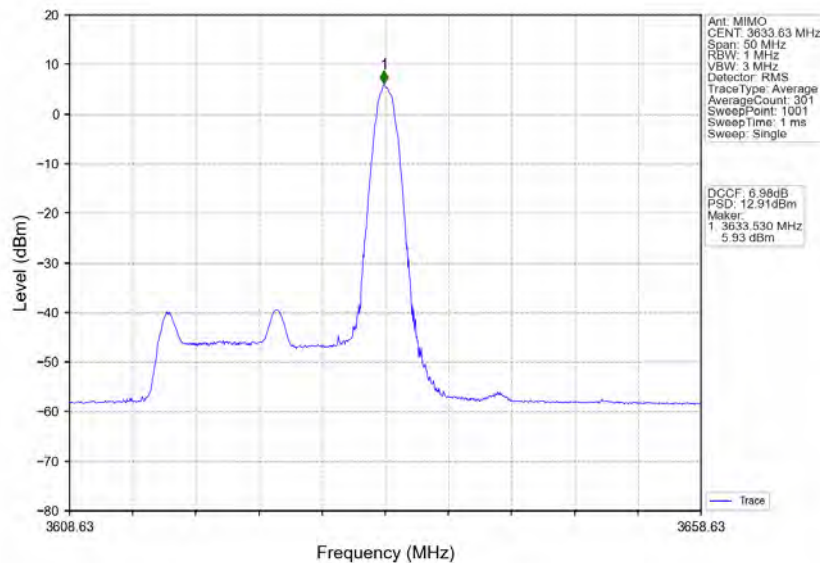
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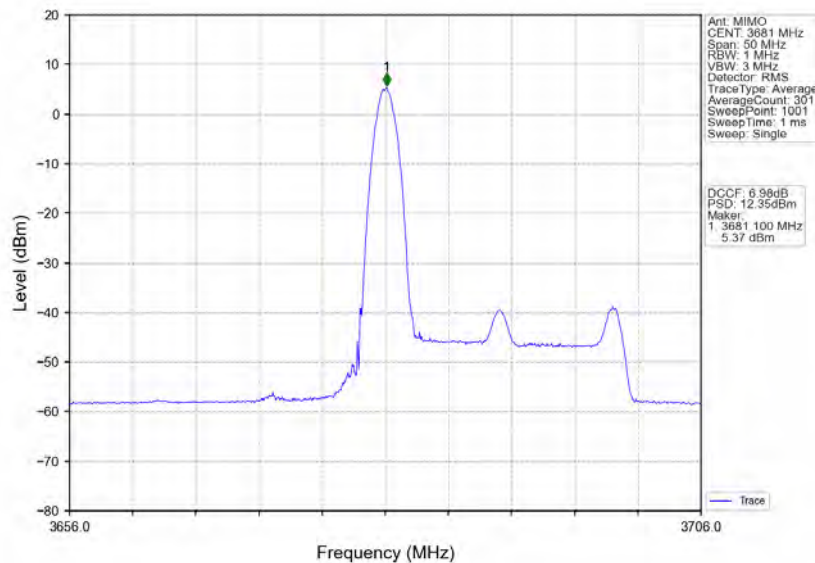
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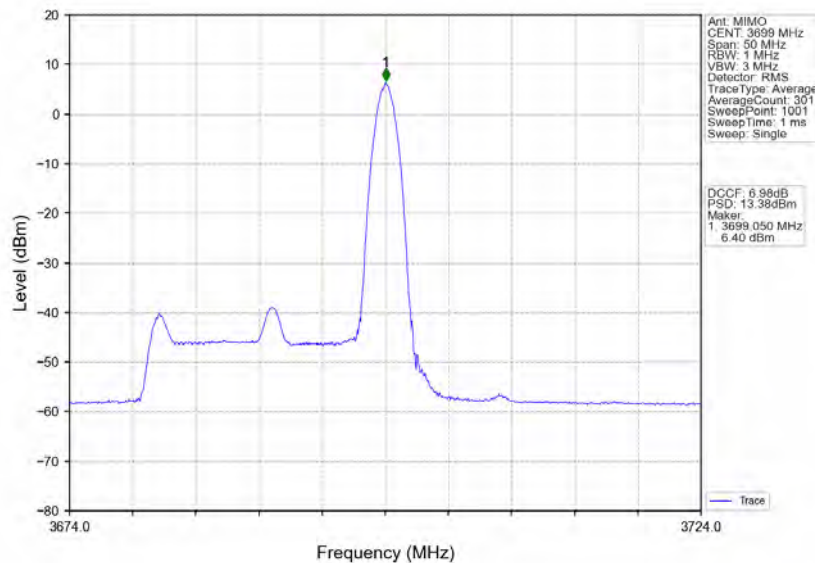
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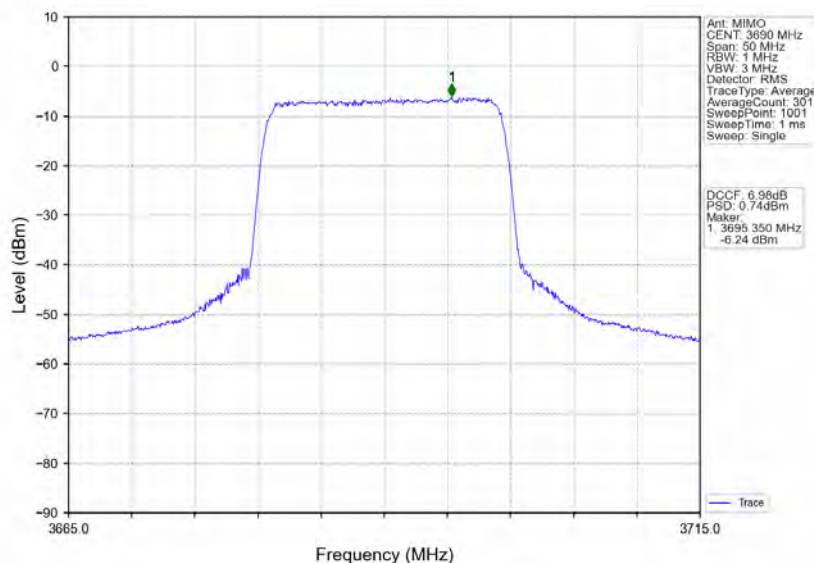
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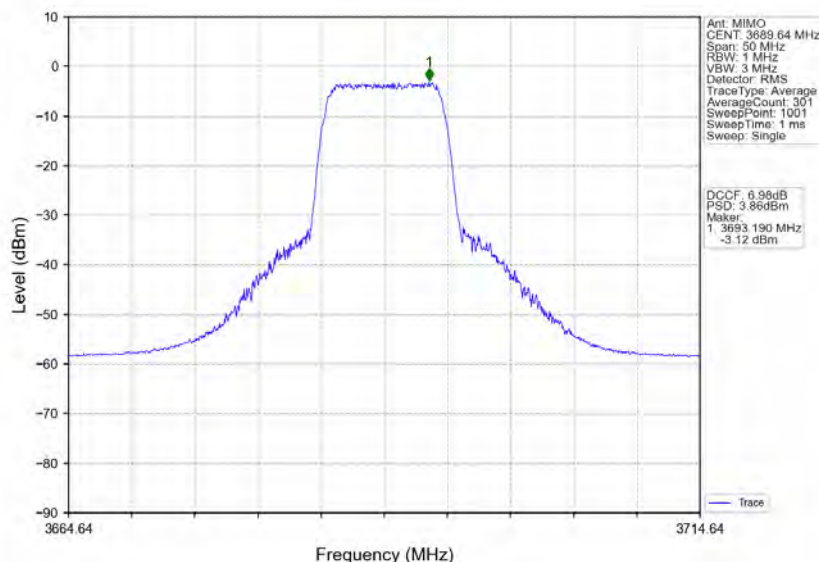
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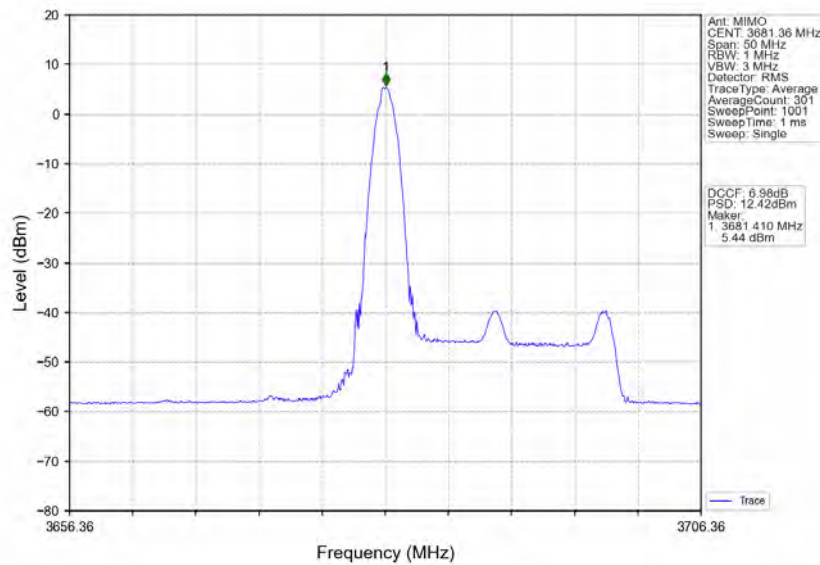
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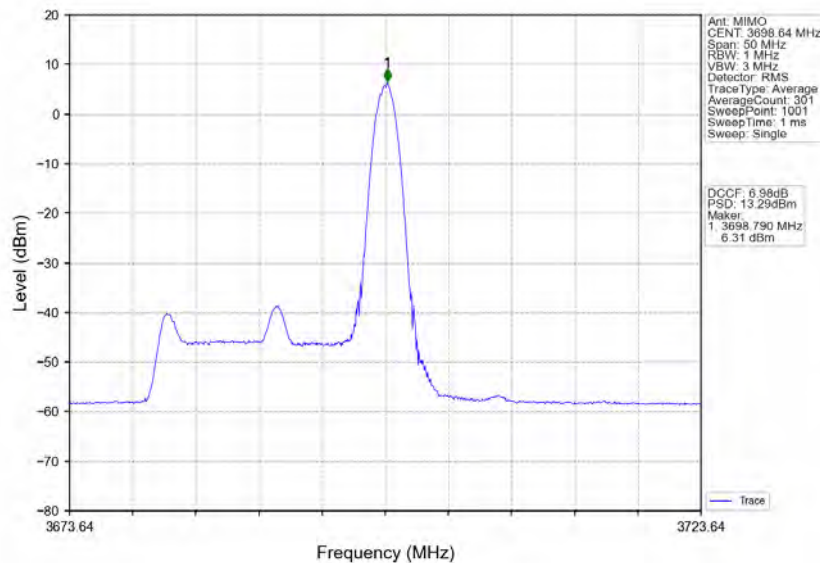
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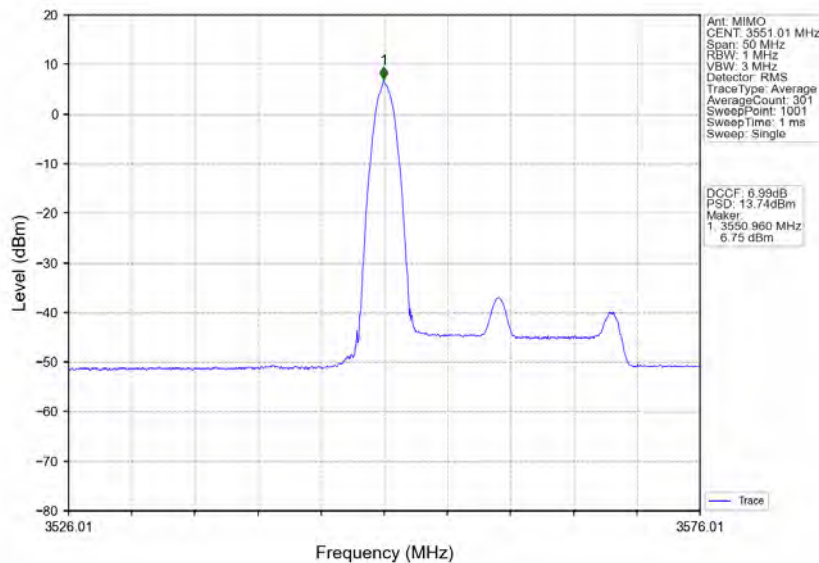
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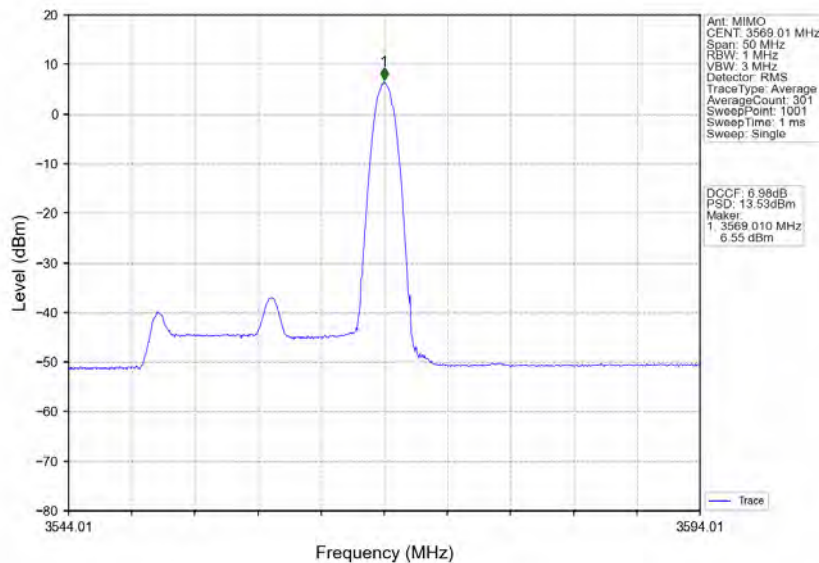
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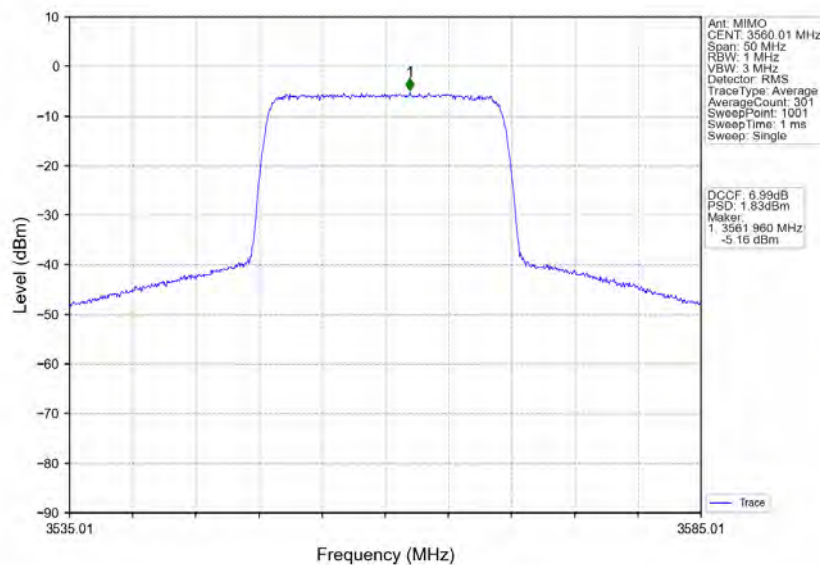
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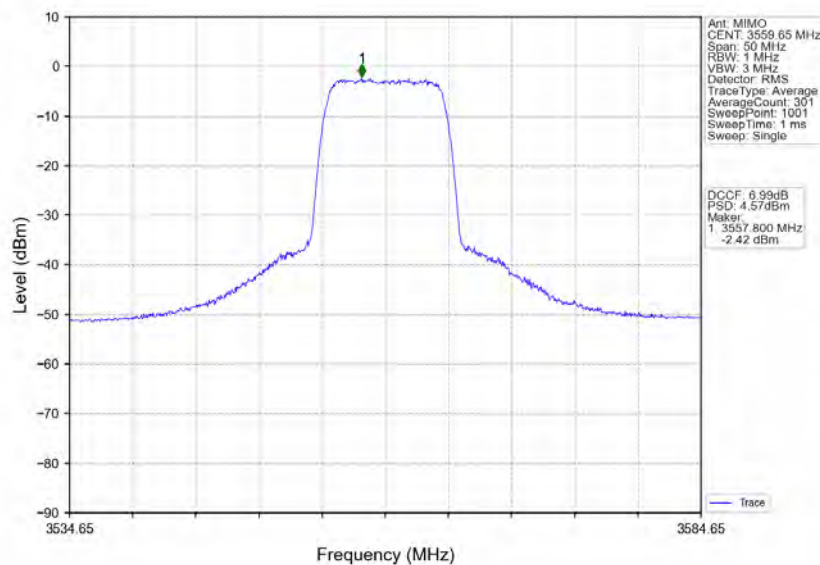
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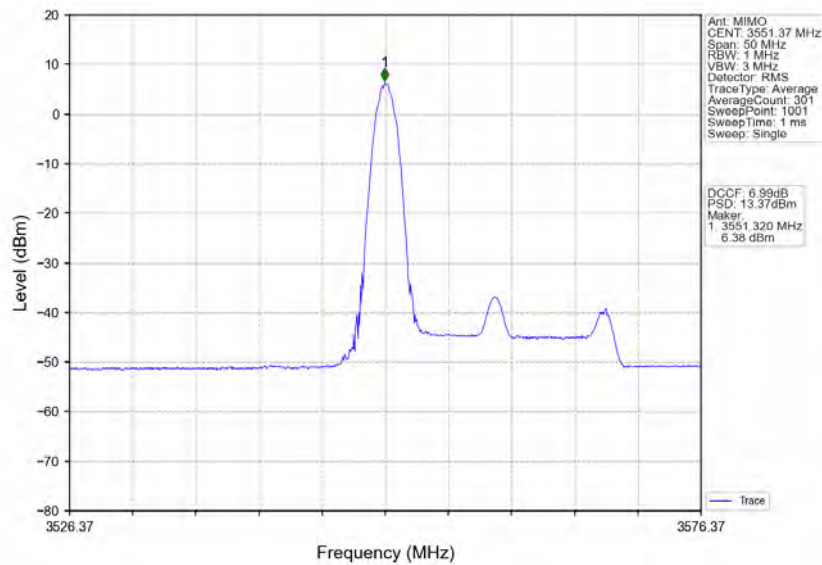
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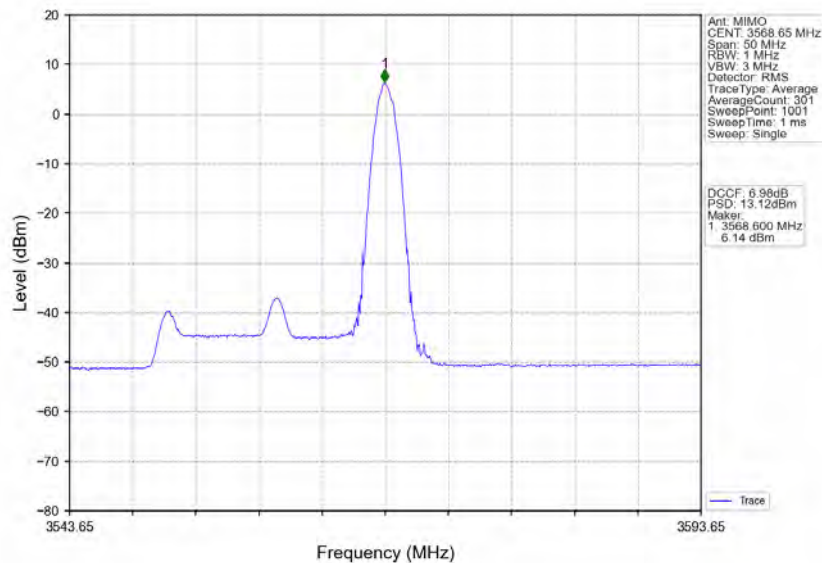
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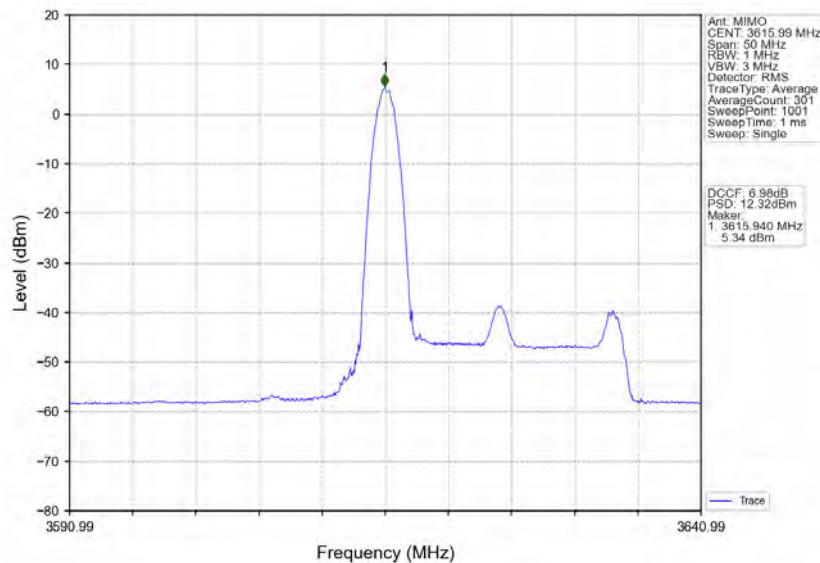
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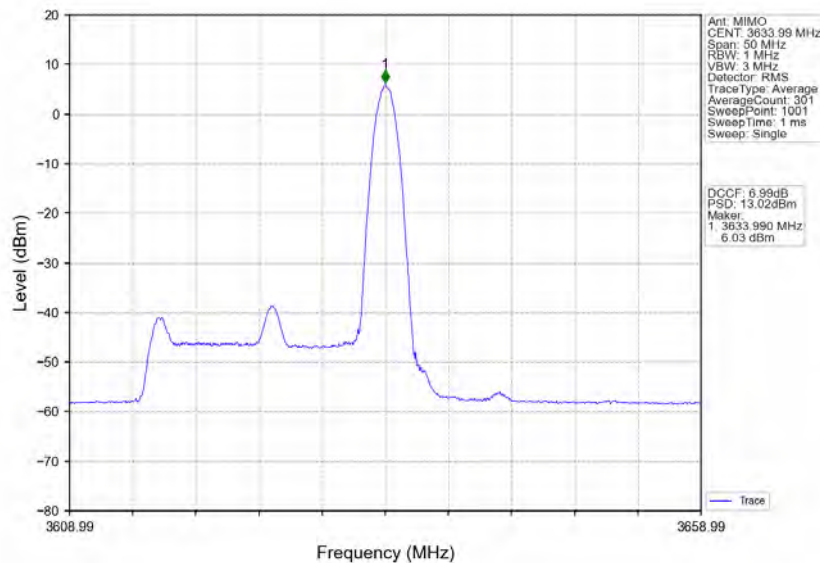
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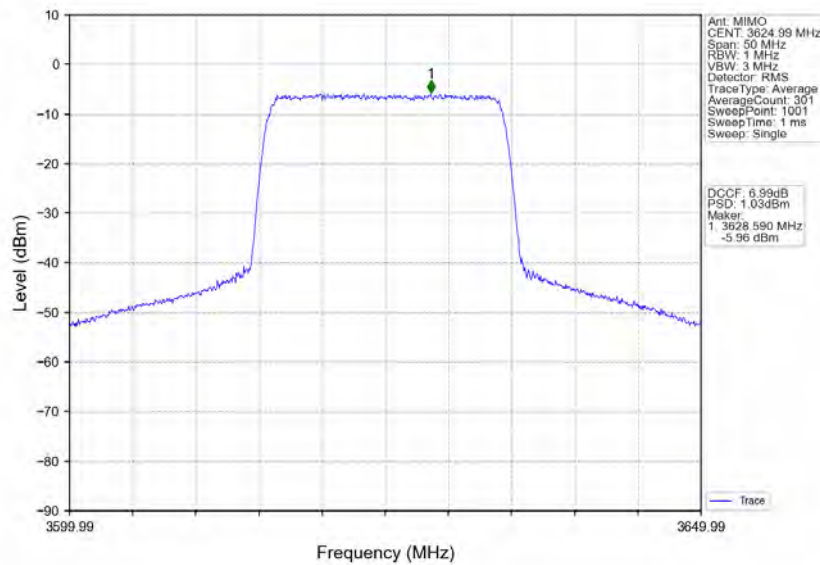
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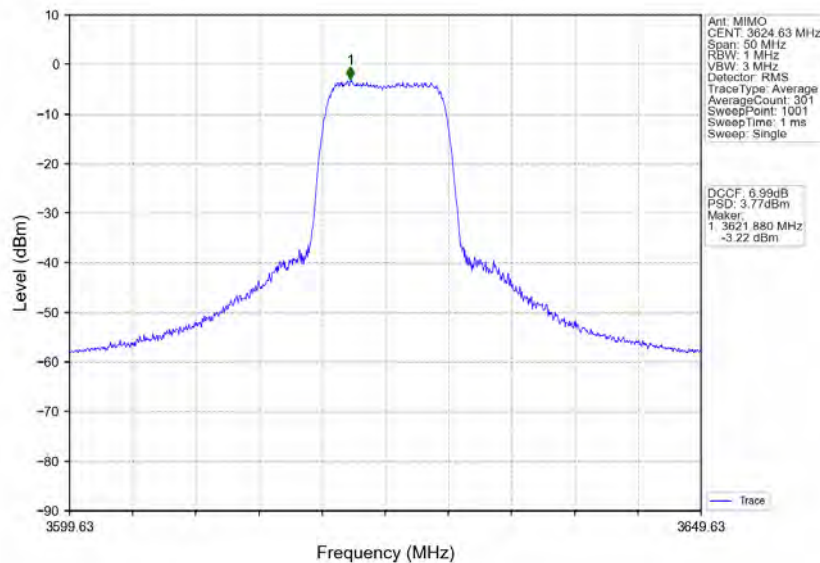
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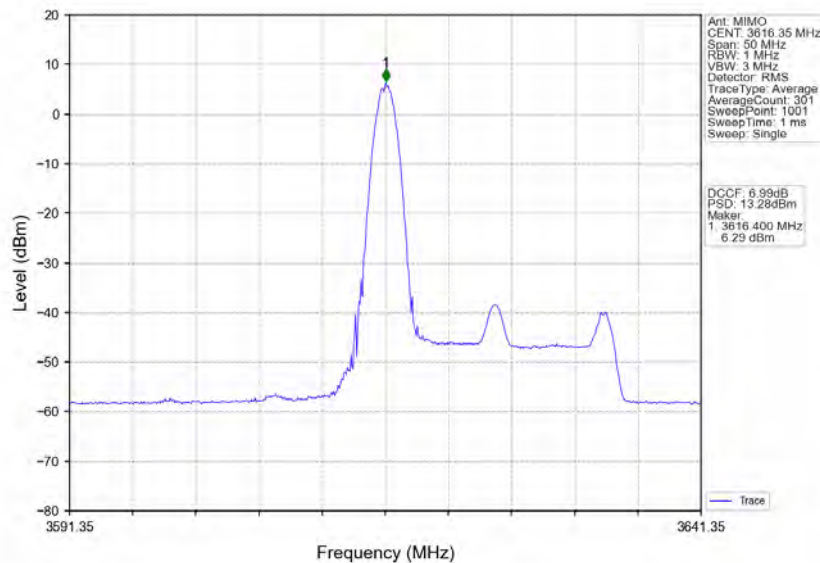
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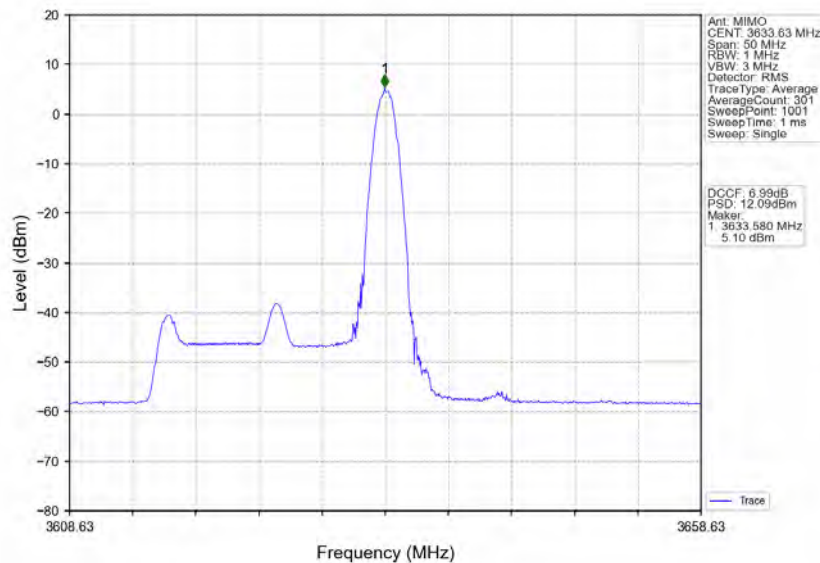
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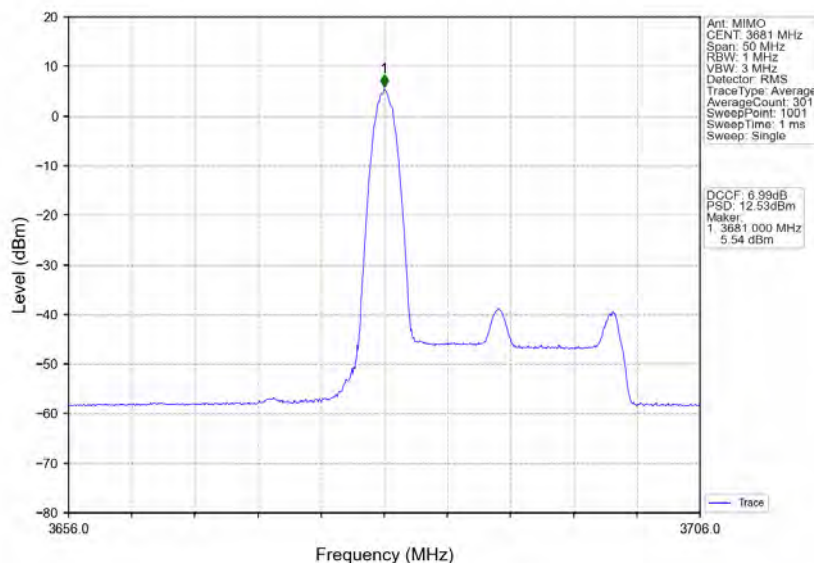
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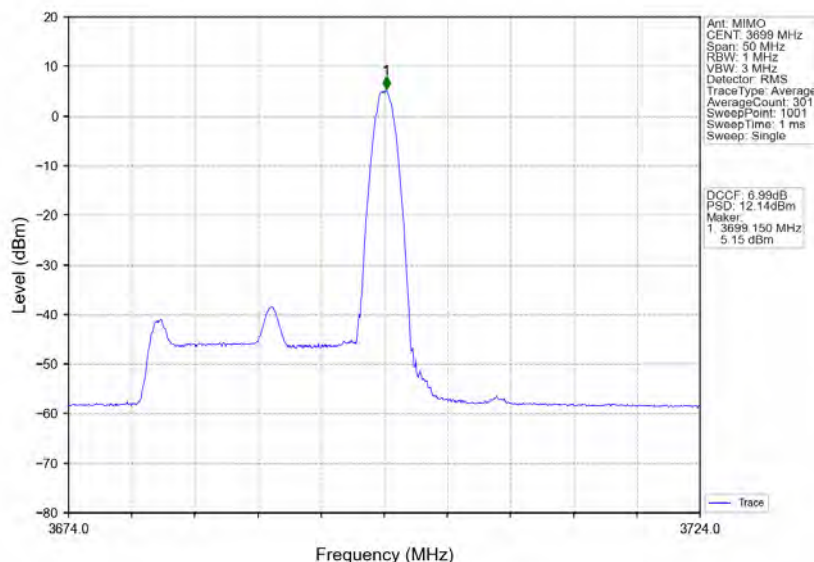
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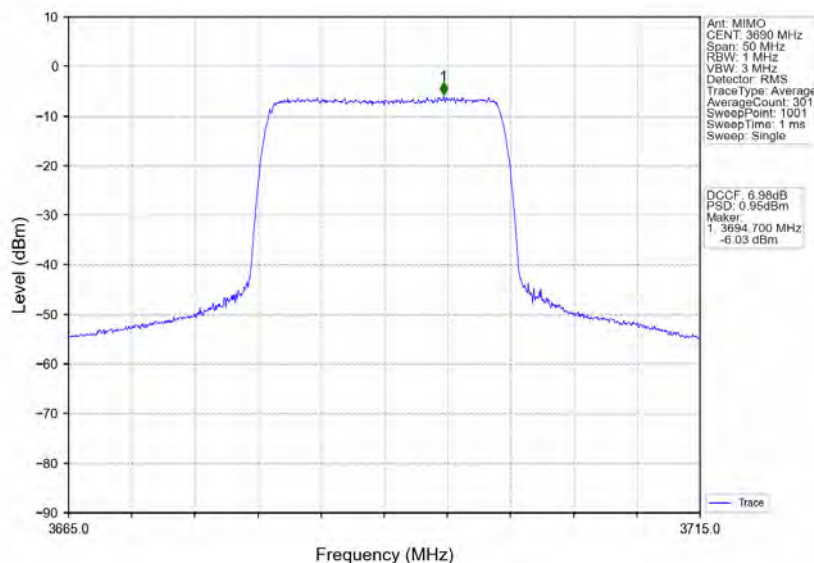
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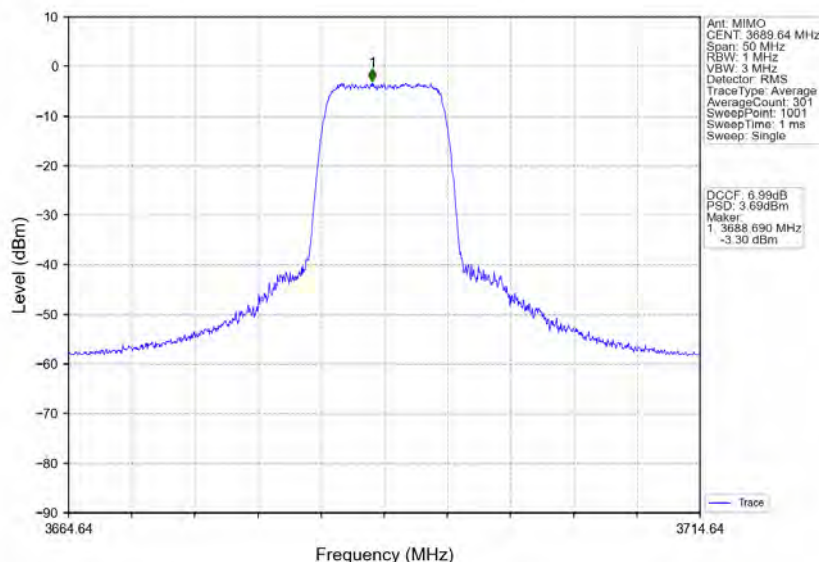
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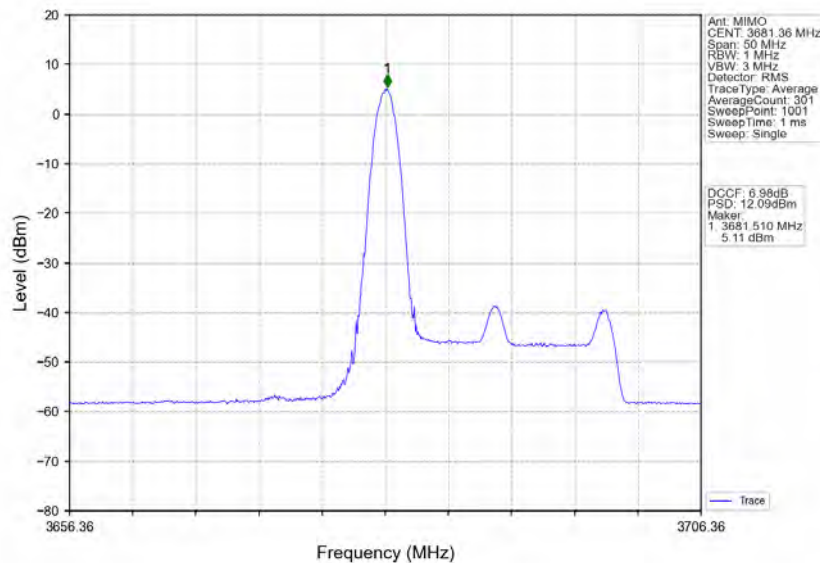
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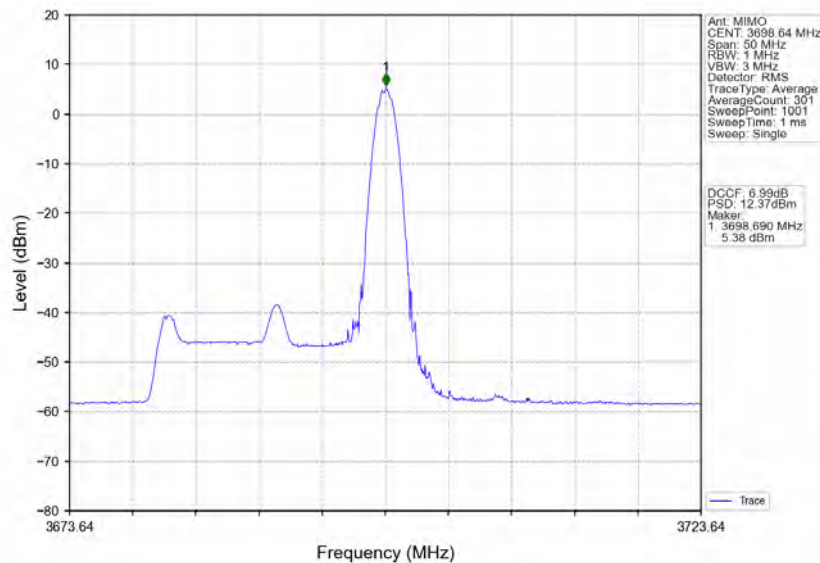
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Inner_1RB_Right



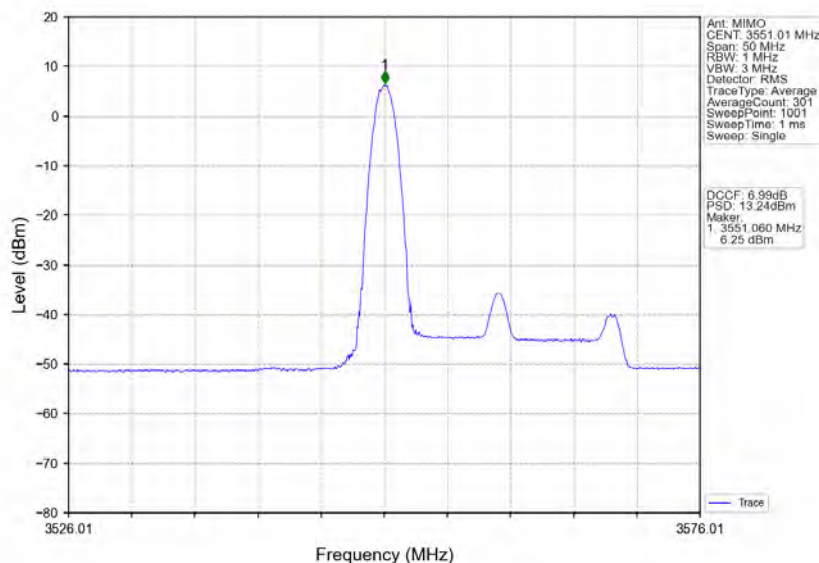
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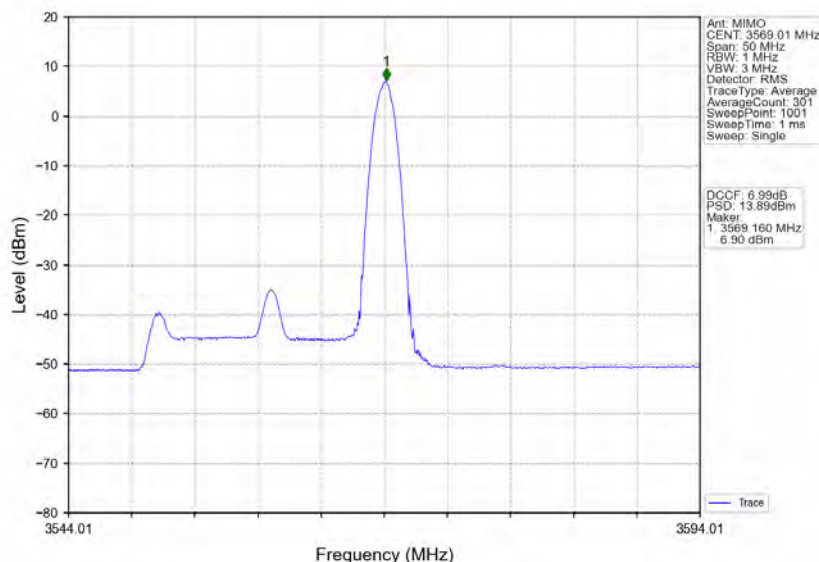
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3560.01MHz_Edge_1RB_Left



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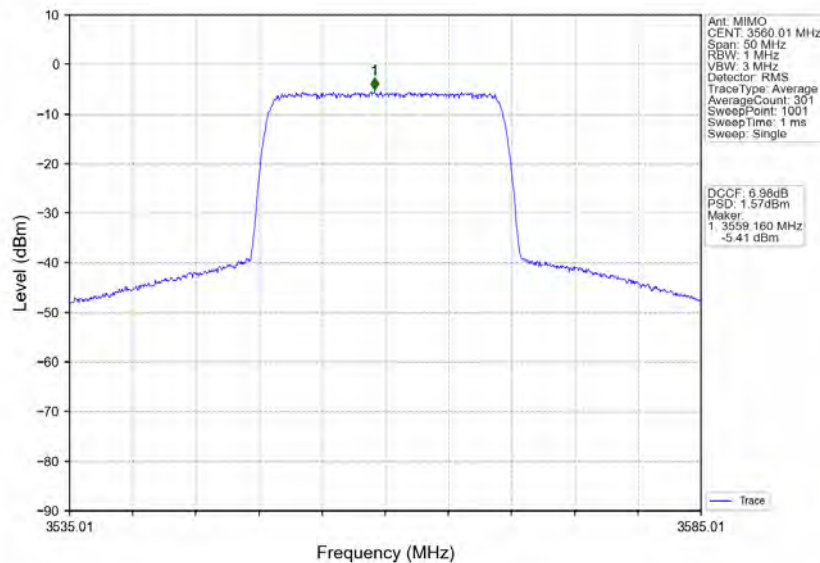
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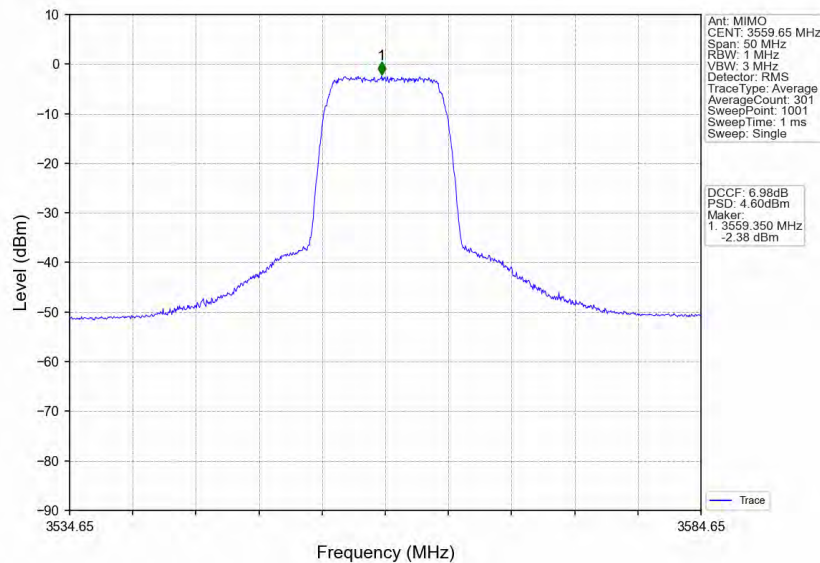
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3560.01MHz_Outer_Full



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3560.01MHz_Inner_Full



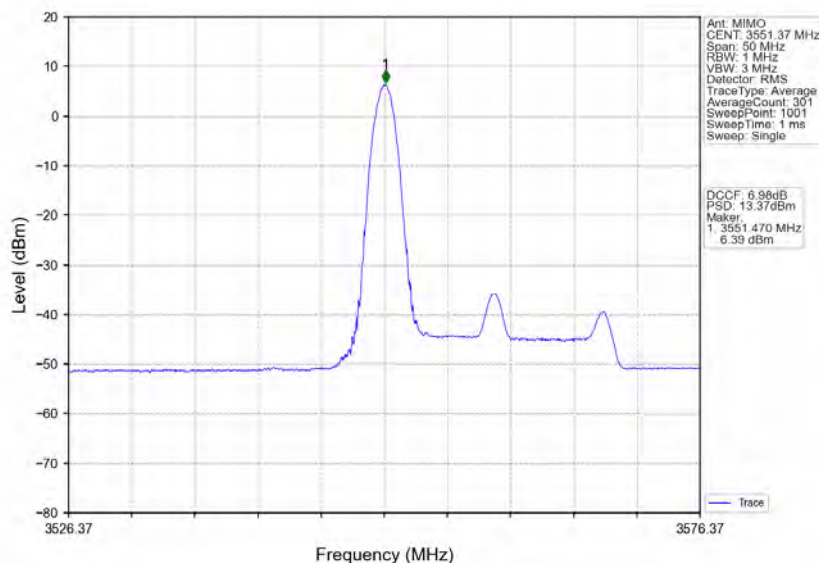
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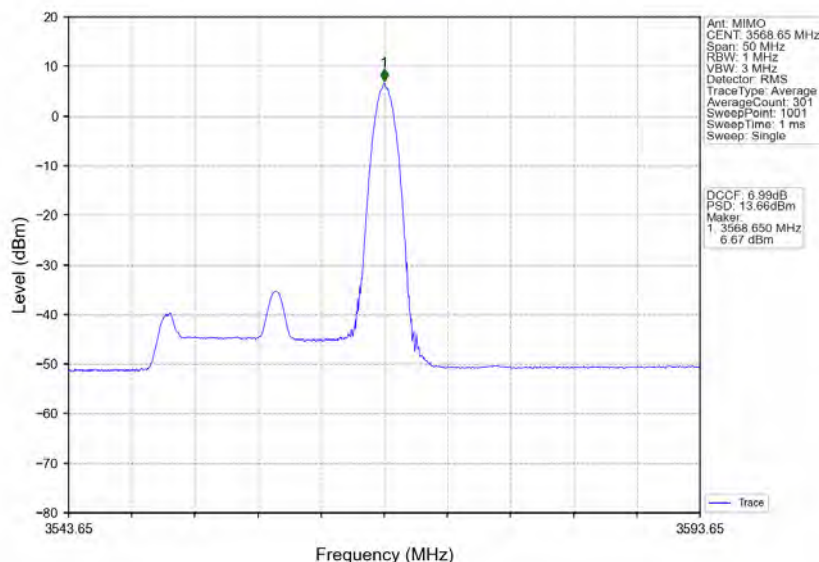
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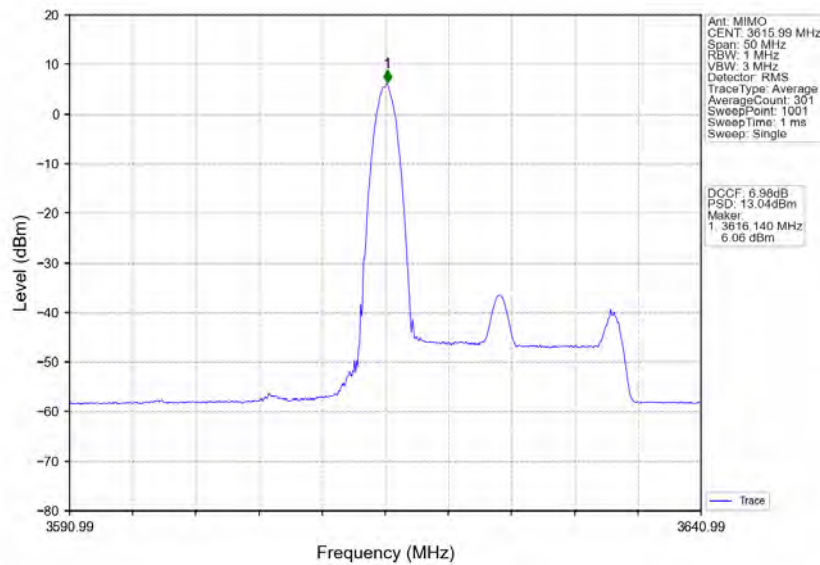
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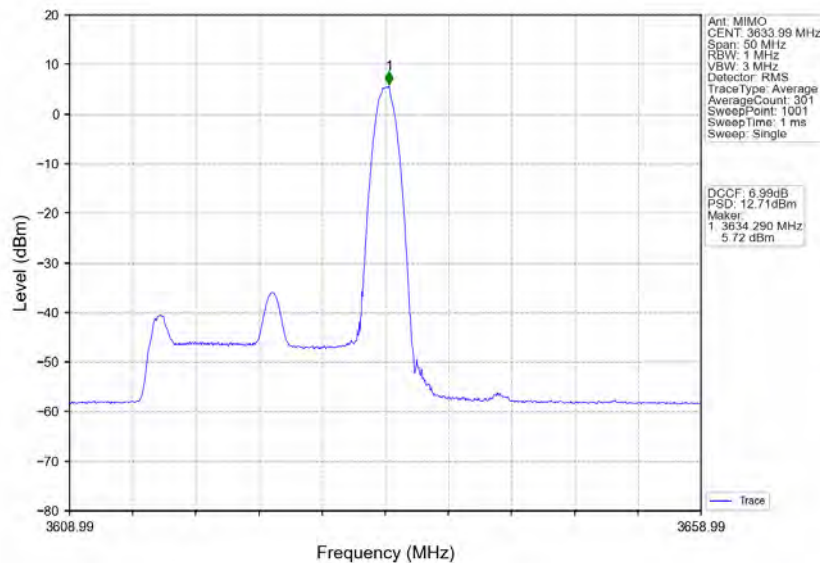
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3624.99MHz_Edge_1RB_Right



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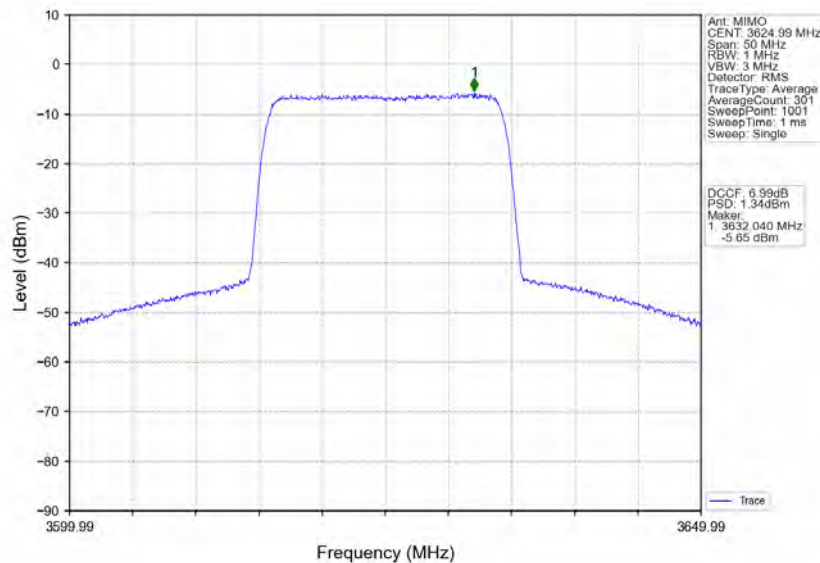
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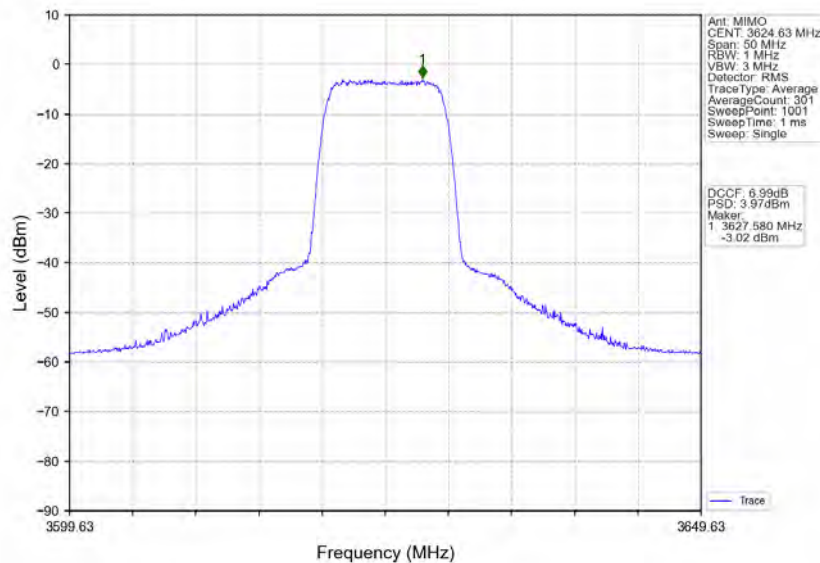
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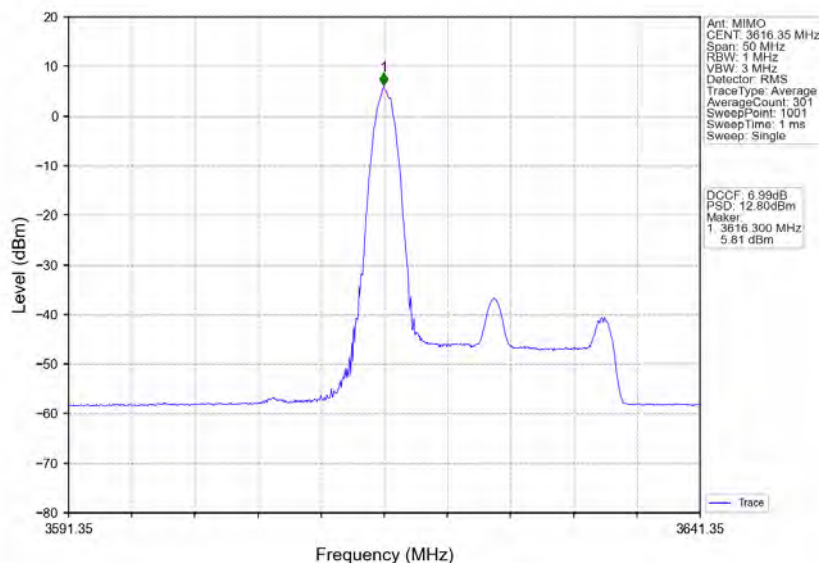
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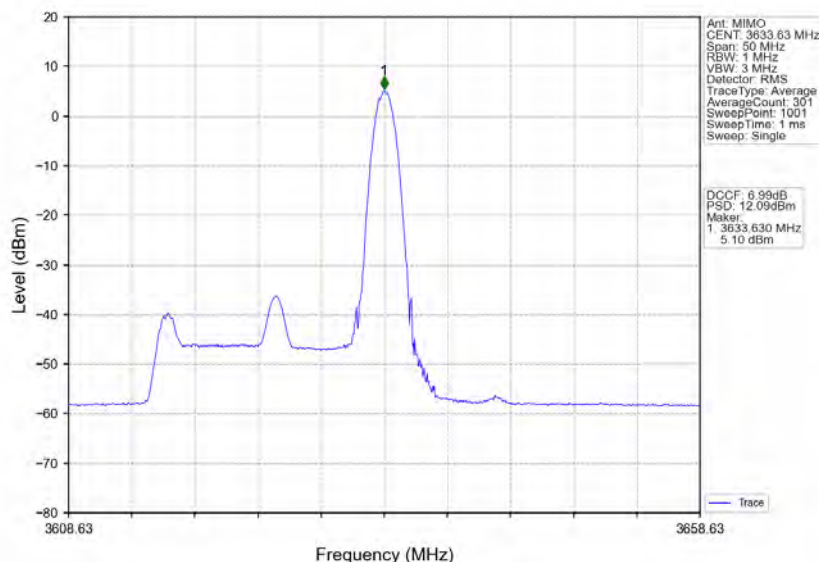
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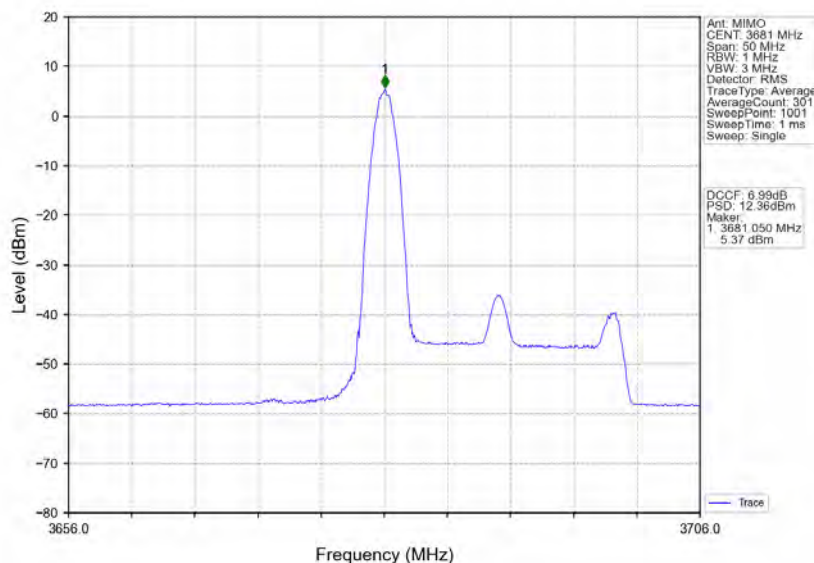
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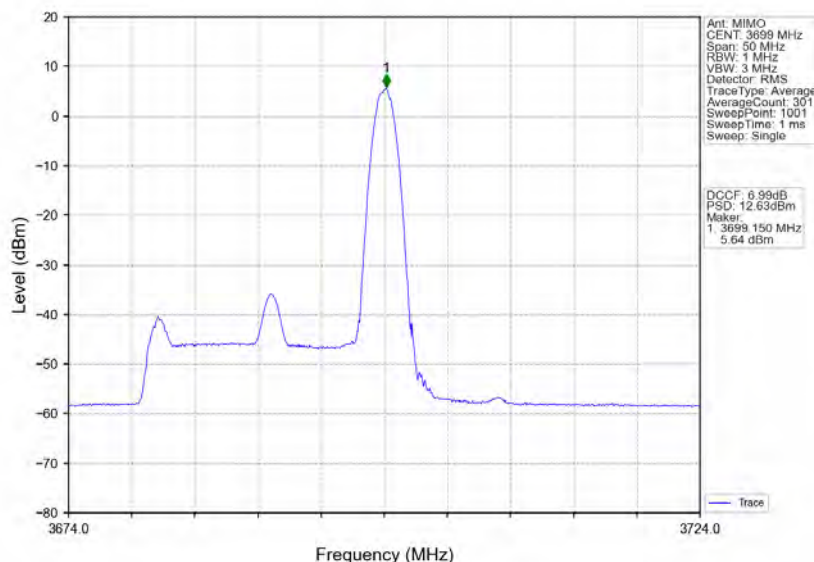
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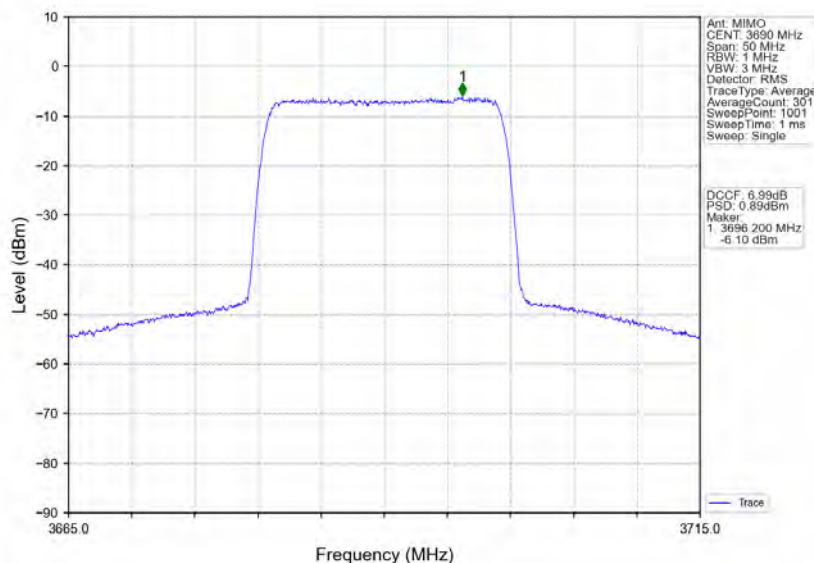
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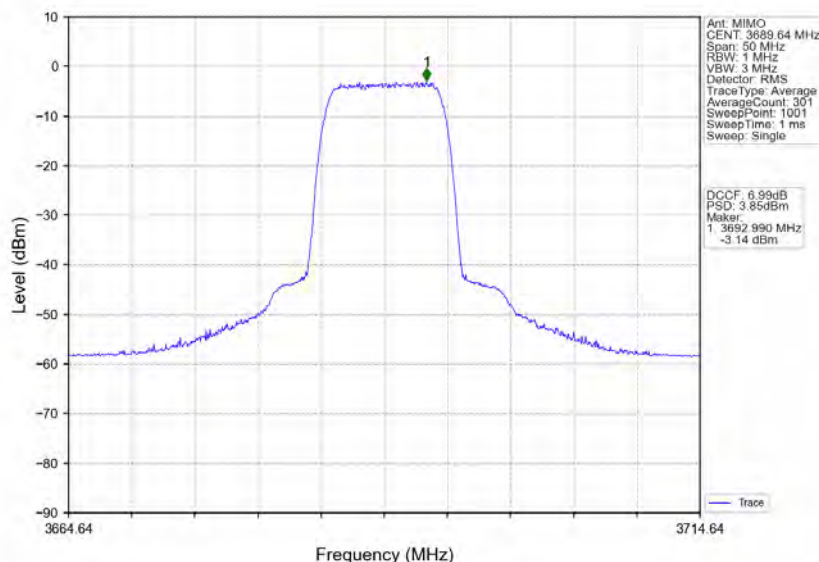
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3690MHz_Inner_Full



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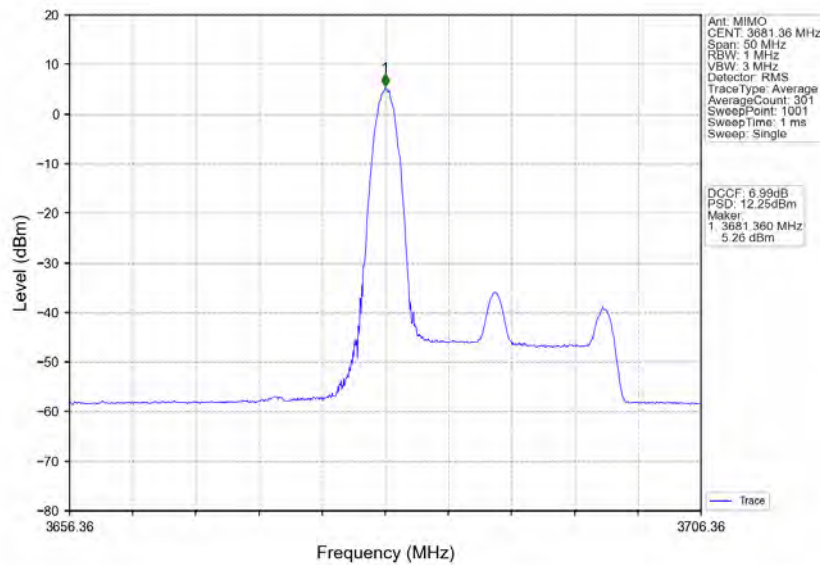
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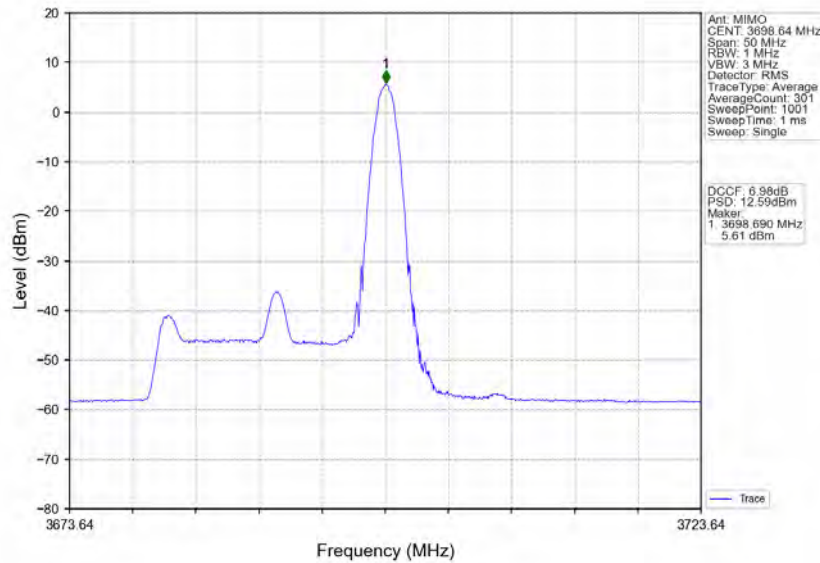
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2.7 30k_MIMO_40MHz_NTNV_EIRP

2.7.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	10.62	10.52	13.58	15.52	16.32	18.95	-	Pass
		Edge_1RB_Right	10.71	10.65	13.69	15.61	16.45	19.06	-	Pass
		Outer_Full	10.63	10.63	13.64	15.53	16.43	19.01	-	Pass
		Inner_Full	10.63	10.53	13.59	15.53	16.33	18.96	-	Pass
		Inner_1RB_Left	10.64	10.50	13.59	15.54	16.30	18.95	-	Pass
		Inner_1RB_Right	10.75	10.68	13.73	15.65	16.48	19.10	-	Pass
	3624.99	Edge_1RB_Left	10.91	10.97	13.95	15.81	16.77	19.33	-	Pass
		Edge_1RB_Right	10.51	10.97	13.76	15.41	16.77	19.15	-	Pass
		Outer_Full	10.70	11.16	13.94	15.60	16.96	19.34	-	Pass
		Inner_Full	10.76	11.03	13.91	15.66	16.83	19.29	-	Pass
		Inner_1RB_Left	10.92	11.01	13.97	15.82	16.81	19.35	-	Pass
		Inner_1RB_Right	10.55	10.94	13.76	15.45	16.74	19.15	-	Pass
	3679.98	Edge_1RB_Left	10.33	10.92	13.65	15.23	16.72	19.05	-	Pass
		Edge_1RB_Right	10.70	10.97	13.85	15.60	16.77	19.23	-	Pass
		Outer_Full	10.40	10.77	13.60	15.30	16.57	18.99	-	Pass
		Inner_Full	10.48	10.76	13.63	15.38	16.56	19.02	-	Pass
		Inner_1RB_Left	10.37	10.87	13.64	15.27	16.67	19.04	-	Pass
		Inner_1RB_Right	10.58	10.97	13.79	15.48	16.77	19.18	-	Pass
CP-OFDM 16 QAM	3570	Edge_1RB_Left	10.65	10.82	13.75	15.55	16.62	19.13	-	Pass
		Edge_1RB_Right	10.74	10.98	13.87	15.64	16.78	19.26	-	Pass
		Outer_Full	10.61	10.60	13.62	15.51	16.40	18.99	-	Pass
		Inner_Full	10.69	10.61	13.66	15.59	16.41	19.03	-	Pass
		Inner_1RB_Left	10.71	10.89	13.81	15.61	16.69	19.19	-	Pass
		Inner_1RB_Right	10.82	10.98	13.91	15.72	16.78	19.29	-	Pass
	3624.99	Edge_1RB_Left	10.77	11.31	14.06	15.67	17.11	19.46	-	Pass
		Edge_1RB_Right	10.39	11.32	13.89	15.29	17.12	19.31	-	Pass
		Outer_Full	10.70	11.10	13.91	15.60	16.90	19.31	-	Pass
		Inner_Full	10.81	11.09	13.96	15.71	16.89	19.35	-	Pass
		Inner_1RB_Left	10.95	11.42	14.20	15.85	17.22	19.60	-	Pass
		Inner_1RB_Right	10.44	11.45	13.98	15.34	17.25	19.41	-	Pass
	3679.98	Edge_1RB_Left	10.38	11.13	13.78	15.28	16.93	19.19	-	Pass
		Edge_1RB_Right	10.65	11.30	14.00	15.55	17.10	19.40	-	Pass
		Outer_Full	10.37	10.73	13.56	15.27	16.53	18.96	-	Pass
		Inner_Full	10.37	10.67	13.53	15.27	16.47	18.92	-	Pass
		Inner_1RB_Left	10.33	11.31	13.85	15.23	17.11	19.28	-	Pass
		Inner_1RB_Right	10.74	11.25	14.01	15.64	17.05	19.41	-	Pass
CP-OFDM 64 QAM	3570	Edge_1RB_Left	10.52	10.72	13.63	15.42	16.52	19.02	-	Pass
		Edge_1RB_Right	10.56	10.79	13.69	15.46	16.59	19.07	-	Pass
		Outer_Full	10.71	10.66	13.69	15.61	16.46	19.07	-	Pass



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CP-OFDM 256 QAM	3624.99	Inner_Full	10.68	10.70	13.70	15.58	16.50	19.07	-	Pass
		Inner_1RB_Left	10.47	10.56	13.53	15.37	16.36	18.90	-	Pass
		Inner_1RB_Right	10.50	10.84	13.68	15.40	16.64	19.07	-	Pass
	3679.98	Edge_1RB_Left	10.57	11.08	13.84	15.47	16.88	19.24	-	Pass
		Edge_1RB_Right	10.33	11.12	13.75	15.23	16.92	19.17	-	Pass
		Outer_Full	10.70	11.12	13.93	15.60	16.92	19.32	-	Pass
		Inner_Full	10.68	11.04	13.87	15.58	16.84	19.27	-	Pass
		Inner_1RB_Left	10.77	11.13	13.96	15.67	16.93	19.36	-	Pass
		Inner_1RB_Right	10.24	11.03	13.67	15.14	16.83	19.08	-	Pass
		Edge_1RB_Left	10.08	10.86	13.50	14.98	16.66	18.91	-	Pass
	3679.98	Edge_1RB_Right	10.48	11.02	13.77	15.38	16.82	19.17	-	Pass
		Outer_Full	10.43	10.76	13.61	15.33	16.56	19.00	-	Pass
		Inner_Full	10.34	10.73	13.55	15.24	16.53	18.94	-	Pass
		Inner_1RB_Left	10.12	10.93	13.55	15.02	16.73	18.97	-	Pass
		Inner_1RB_Right	10.34	10.97	13.68	15.24	16.77	19.08	-	Pass
	3570	Edge_1RB_Left	10.87	10.77	13.83	15.77	16.57	19.20	-	Pass
		Edge_1RB_Right	10.87	10.79	13.84	15.77	16.59	19.21	-	Pass
		Outer_Full	10.71	10.64	13.69	15.61	16.44	19.06	-	Pass
		Inner_Full	10.82	10.68	13.76	15.72	16.48	19.13	-	Pass
		Inner_1RB_Left	10.72	10.70	13.72	15.62	16.50	19.09	-	Pass
		Inner_1RB_Right	10.85	10.87	13.87	15.75	16.67	19.24	-	Pass
	3624.99	Edge_1RB_Left	10.93	11.17	14.06	15.83	16.97	19.45	-	Pass
		Edge_1RB_Right	10.60	11.10	13.87	15.50	16.90	19.27	-	Pass
		Outer_Full	10.80	11.09	13.96	15.70	16.89	19.35	-	Pass
		Inner_Full	10.79	11.04	13.93	15.69	16.84	19.31	-	Pass
		Inner_1RB_Left	10.98	11.22	14.11	15.88	17.02	19.50	-	Pass
		Inner_1RB_Right	10.58	11.13	13.88	15.48	16.93	19.28	-	Pass
	3679.98	Edge_1RB_Left	10.39	10.98	13.71	15.29	16.78	19.11	-	Pass
		Edge_1RB_Right	10.72	11.07	13.91	15.62	16.87	19.30	-	Pass
		Outer_Full	10.42	10.77	13.61	15.32	16.57	19.00	-	Pass
		Inner_Full	10.39	10.67	13.54	15.29	16.47	18.93	-	Pass
		Inner_1RB_Left	10.36	10.98	13.69	15.26	16.78	19.10	-	Pass
		Inner_1RB_Right	10.72	11.02	13.88	15.62	16.82	19.27	-	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.8 30k_MIMO_40MHz_NTNV_EIRP/10MHz

2.8.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	10.69	12.08	14.45	15.59	17.88	19.89	<=30	Pass
		Edge_1RB_Right	8.97	9.20	12.10	13.87	15.00	17.48	<=30	Pass
		Outer_Full	3.95	4.33	7.15	8.85	10.13	12.55	<=30	Pass
		Inner_Full	7.38	7.10	10.25	12.28	12.90	15.61	<=30	Pass



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CP-OFDM 16 QAM	3624.99	Inner 1RB Left	8.99	11.29	13.30	13.89	17.09	18.79	<=30	Pass
		Inner 1RB Right	10.22	8.73	12.55	15.12	14.53	17.85	<=30	Pass
		Edge 1RB Left	10.04	11.36	13.76	14.94	17.16	19.20	<=30	Pass
		Edge 1RB Right	8.46	9.54	12.04	13.36	15.34	17.47	<=30	Pass
	3679.98	Outer Full	3.58	5.15	7.45	8.48	10.95	12.90	<=30	Pass
		Inner Full	5.52	6.62	9.12	10.42	12.42	14.54	<=30	Pass
		Inner 1RB Left	10.57	8.84	12.80	15.47	14.64	18.09	<=30	Pass
		Inner 1RB Right	9.80	9.51	12.67	14.70	15.31	18.03	<=30	Pass
	3570	Edge 1RB Left	11.08	10.13	13.64	15.98	15.93	18.97	<=30	Pass
		Edge 1RB Right	10.15	10.30	13.24	15.05	16.10	18.62	<=30	Pass
		Outer Full	3.21	3.98	6.62	8.11	9.78	12.04	<=30	Pass
		Inner Full	6.16	6.00	9.09	11.06	11.80	14.46	<=30	Pass
	3624.99	Inner 1RB Left	9.72	9.35	12.55	14.62	15.15	17.90	<=30	Pass
		Inner 1RB Right	9.51	10.30	12.93	14.41	16.10	18.35	<=30	Pass
	3570	Edge 1RB Left	8.33	8.70	11.53	13.23	14.50	16.92	<=30	Pass
		Edge 1RB Right	9.97	12.10	14.17	14.87	17.90	19.65	<=30	Pass
		Outer Full	2.79	3.73	6.30	7.69	9.53	11.72	<=30	Pass
		Inner Full	6.39	5.69	9.06	11.29	11.49	14.40	<=30	Pass
CP-OFDM 64 QAM	3624.99	Inner 1RB Left	9.77	10.49	13.16	14.67	16.29	18.57	<=30	Pass
		Inner 1RB Right	10.29	11.13	13.74	15.19	16.93	19.16	<=30	Pass
		Edge 1RB Left	9.83	11.44	13.72	14.73	17.24	19.17	<=30	Pass
		Edge 1RB Right	10.12	11.51	13.88	15.02	17.31	19.32	<=30	Pass
	3679.98	Outer Full	4.05	4.09	7.08	8.95	9.89	12.46	<=30	Pass
		Inner Full	5.23	7.30	9.40	10.13	13.10	14.87	<=30	Pass
		Inner 1RB Left	9.92	10.82	13.40	14.82	16.62	18.82	<=30	Pass
		Inner 1RB Right	9.66	10.62	13.18	14.56	16.42	18.60	<=30	Pass
	3570	Edge 1RB Left	9.98	11.25	13.67	14.88	17.05	19.11	<=30	Pass
		Edge 1RB Right	8.39	10.36	12.50	13.29	16.16	17.97	<=30	Pass
		Outer Full	1.93	3.21	5.63	6.83	9.01	11.07	<=30	Pass
		Inner Full	4.91	7.13	9.17	9.81	12.93	14.65	<=30	Pass
	3624.99	Inner 1RB Left	9.33	9.37	12.36	14.23	15.17	17.74	<=30	Pass
		Inner 1RB Right	8.79	9.39	12.11	13.69	15.19	17.51	<=30	Pass
	3570	Edge 1RB Left	10.36	10.25	13.32	15.26	16.05	18.68	<=30	Pass
		Edge 1RB Right	8.83	10.29	12.63	13.73	16.09	18.08	<=30	Pass
		Outer Full	4.45	3.69	7.10	9.35	9.49	12.43	<=30	Pass
		Inner Full	6.07	6.25	9.17	10.97	12.05	14.55	<=30	Pass
CP-OFDM 256 QAM	3624.99	Inner 1RB Left	9.89	10.10	13.01	14.79	15.90	18.39	<=30	Pass
		Inner 1RB Right	8.42	9.79	12.17	13.32	15.59	17.61	<=30	Pass
		Edge 1RB Left	9.42	8.19	11.86	14.32	13.99	17.17	<=30	Pass
		Edge 1RB Right	6.27	10.27	11.73	11.17	16.07	17.29	<=30	Pass
	3679.98	Outer Full	3.98	4.32	7.16	8.88	10.12	12.55	<=30	Pass
		Inner Full	6.84	8.23	10.60	11.74	14.03	16.04	<=30	Pass
		Inner 1RB Left	9.96	10.94	13.49	14.86	16.74	18.91	<=30	Pass
		Inner 1RB Right	9.67	9.27	12.48	14.57	15.07	17.84	<=30	Pass
	3570	Edge 1RB Left	9.26	10.47	12.92	14.16	16.27	18.35	<=30	Pass
		Edge 1RB Right	8.61	10.07	12.41	13.51	15.87	17.86	<=30	Pass
		Outer Full	2.55	3.99	6.34	7.45	9.79	11.79	<=30	Pass
		Inner Full	5.84	5.98	8.92	10.74	11.78	14.30	<=30	Pass
	3624.99	Inner 1RB Left	8.47	10.31	12.50	13.37	16.11	17.96	<=30	Pass
		Inner 1RB Right	8.19	9.69	12.01	13.09	15.49	17.46	<=30	Pass
	3570	Edge 1RB Left	10.65	10.34	13.51	15.55	16.14	18.87	<=30	Pass
		Edge 1RB Right	10.25	11.45	13.90	15.15	17.25	19.34	<=30	Pass
		Outer Full	3.69	5.44	7.66	8.59	11.24	13.12	<=30	Pass
		Inner Full	7.17	7.69	10.45	12.07	13.49	15.85	<=30	Pass

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		Inner 1RB Left	11.18	10.47	13.85	16.08	16.27	19.19	<=30	Pass
		Inner 1RB Right	10.61	8.95	12.87	15.51	14.75	18.16	<=30	Pass
	3624.99	Edge 1RB Left	8.92	11.07	13.14	13.82	16.87	18.62	<=30	Pass
		Edge 1RB Right	8.38	11.11	12.97	13.28	16.91	18.47	<=30	Pass
		Outer Full	3.00	3.71	6.38	7.90	9.51	11.79	<=30	Pass
		Inner Full	7.03	7.31	10.18	11.93	13.11	15.57	<=30	Pass
	3679.98	Inner 1RB Left	10.36	10.43	13.41	15.26	16.23	18.78	<=30	Pass
		Inner 1RB Right	8.91	7.26	11.17	13.81	13.06	16.46	<=30	Pass
		Edge 1RB Left	8.92	9.21	12.08	13.82	15.01	17.47	<=30	Pass
		Edge 1RB Right	9.71	10.71	13.25	14.61	16.51	18.67	<=30	Pass
		Outer Full	3.95	3.74	6.86	8.85	9.54	12.22	<=30	Pass
		Inner Full	5.50	6.45	9.01	10.40	12.25	14.43	<=30	Pass
		Inner 1RB Left	9.13	10.18	12.70	14.03	15.98	18.12	<=30	Pass
		Inner 1RB Right	9.22	7.83	11.59	14.12	13.63	16.89	<=30	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.9 30k_MIMO_40MHz_NTNV_PSD

2.9.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3570	Edge 1RB Left	10.69	12.08	13.27	15.59	17.88	19.07	<=20	Pass
		Edge 1RB Right	8.97	9.20	13.77	13.87	15.00	19.57	<=20	Pass
		Outer Full	3.95	4.33	-1.18	8.85	10.13	4.62	<=20	Pass
		Inner Full	7.38	7.10	1.24	12.28	12.90	7.04	<=20	Pass
		Inner 1RB Left	8.99	11.29	13.01	13.89	17.09	18.81	<=20	Pass
	3624.99	Inner 1RB Right	10.22	8.73	13.24	15.12	14.53	19.04	<=20	Pass
		Edge 1RB Left	10.04	11.36	13.28	14.94	17.16	19.08	<=20	Pass
		Edge 1RB Right	8.46	9.54	12.48	13.36	15.34	18.28	<=20	Pass
		Outer Full	3.58	5.15	-1.59	8.48	10.95	4.21	<=20	Pass
		Inner Full	5.52	6.62	1.04	10.42	12.42	6.84	<=20	Pass
	3679.98	Inner 1RB Left	10.57	8.84	13.56	15.47	14.64	19.36	<=20	Pass
		Inner 1RB Right	9.80	9.51	12.74	14.70	15.31	18.54	<=20	Pass
		Edge 1RB Left	11.08	10.13	12.00	15.98	15.93	17.80	<=20	Pass
		Edge 1RB Right	10.15	10.30	12.42	15.05	16.10	18.22	<=20	Pass
		Outer Full	3.21	3.98	-2.15	8.11	9.78	3.65	<=20	Pass
CP-OFDM 16 QAM	3570	Inner Full	6.16	6.00	0.50	11.06	11.80	6.30	<=20	Pass
		Inner 1RB Left	9.72	9.35	12.88	14.62	15.15	18.68	<=20	Pass
		Inner 1RB Right	9.51	10.30	12.94	14.41	16.10	18.74	<=20	Pass
		Edge 1RB Left	8.33	8.70	12.45	13.23	14.50	18.25	<=20	Pass
		Edge 1RB Right	9.97	12.10	12.41	14.87	17.90	18.21	<=20	Pass
	3624.99	Outer Full	2.79	3.73	-1.77	7.69	9.53	4.03	<=20	Pass
		Inner Full	6.39	5.69	1.98	11.29	11.49	7.78	<=20	Pass
		Inner 1RB Left	9.77	10.49	13.61	14.67	16.29	19.41	<=20	Pass
		Inner 1RB Right	10.29	11.13	13.19	15.19	16.93	18.99	<=20	Pass
		Edge 1RB Left	9.83	11.44	13.14	14.73	17.24	18.94	<=20	Pass



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CP-OFDM 64 QAM		Inner Full	5.23	7.30	0.82	10.13	13.10	6.62	<=20	Pass
		Inner 1RB Left	9.92	10.82	13.53	14.82	16.62	19.33	<=20	Pass
		Inner 1RB Right	9.66	10.62	13.38	14.56	16.42	19.18	<=20	Pass
	3679.98	Edge 1RB Left	9.98	11.25	13.29	14.88	17.05	19.09	<=20	Pass
		Edge 1RB Right	8.39	10.36	12.95	13.29	16.16	18.75	<=20	Pass
		Outer Full	1.93	3.21	-2.31	6.83	9.01	3.49	<=20	Pass
		Inner Full	4.91	7.13	0.78	9.81	12.93	6.58	<=20	Pass
		Inner 1RB Left	9.33	9.37	13.05	14.23	15.17	18.85	<=20	Pass
		Inner 1RB Right	8.79	9.39	13.42	13.69	15.19	19.22	<=20	Pass
		Edge 1RB Left	10.36	10.25	12.89	15.26	16.05	18.69	<=20	Pass
CP-OFDM 256 QAM	3570	Edge 1RB Right	8.83	10.29	12.19	13.73	16.09	17.99	<=20	Pass
		Outer Full	4.45	3.69	-1.28	9.35	9.49	4.52	<=20	Pass
		Inner Full	6.07	6.25	1.71	10.97	12.05	7.51	<=20	Pass
		Inner 1RB Left	9.89	10.10	13.61	14.79	15.90	19.41	<=20	Pass
		Inner 1RB Right	8.42	9.79	13.70	13.32	15.59	19.50	<=20	Pass
		Edge 1RB Left	9.42	8.19	13.40	14.32	13.99	19.20	<=20	Pass
	3624.99	Edge 1RB Right	6.27	10.27	12.37	11.17	16.07	18.17	<=20	Pass
		Outer Full	3.98	4.32	-1.98	8.88	10.12	3.82	<=20	Pass
		Inner Full	6.84	8.23	1.22	11.74	14.03	7.02	<=20	Pass
		Inner 1RB Left	9.96	10.94	12.90	14.86	16.74	18.70	<=20	Pass
		Inner 1RB Right	9.67	9.27	12.26	14.57	15.07	18.06	<=20	Pass
		Edge 1RB Left	9.26	10.47	12.79	14.16	16.27	18.59	<=20	Pass
	3679.98	Edge 1RB Right	8.61	10.07	13.02	13.51	15.87	18.82	<=20	Pass
		Outer Full	2.55	3.99	-2.04	7.45	9.79	3.76	<=20	Pass
		Inner Full	5.84	5.98	1.22	10.74	11.78	7.02	<=20	Pass
		Inner 1RB Left	8.47	10.31	12.93	13.37	16.11	18.73	<=20	Pass
		Inner 1RB Right	8.19	9.69	12.64	13.09	15.49	18.44	<=20	Pass
		Edge 1RB Left	10.65	10.34	13.55	15.55	16.14	19.35	<=20	Pass
	3570	Edge 1RB Right	10.25	11.45	12.70	15.15	17.25	18.50	<=20	Pass
		Outer Full	3.69	5.44	-1.05	8.59	11.24	4.75	<=20	Pass
		Inner Full	7.17	7.69	1.62	12.07	13.49	7.42	<=20	Pass
		Inner 1RB Left	11.18	10.47	13.06	16.08	16.27	18.86	<=20	Pass
		Inner 1RB Right	10.61	8.95	13.63	15.51	14.75	19.43	<=20	Pass
		Edge 1RB Left	8.92	11.07	13.95	13.82	16.87	19.75	<=20	Pass
	3624.99	Edge 1RB Right	8.38	11.11	12.72	13.28	16.91	18.52	<=20	Pass
		Outer Full	3.00	3.71	-1.25	7.90	9.51	4.55	<=20	Pass
		Inner Full	7.03	7.31	1.46	11.93	13.11	7.26	<=20	Pass
		Inner 1RB Left	10.36	10.43	13.27	15.26	16.23	19.07	<=20	Pass
		Inner 1RB Right	8.91	7.26	12.94	13.81	13.06	18.74	<=20	Pass
		Edge 1RB Left	8.92	9.21	13.29	13.82	15.01	19.09	<=20	Pass
	3679.98	Edge 1RB Right	9.71	10.71	13.23	14.61	16.51	19.03	<=20	Pass
		Outer Full	3.95	3.74	-2.39	8.85	9.54	3.41	<=20	Pass
		Inner Full	5.50	6.45	0.36	10.40	12.25	6.16	<=20	Pass
		Inner 1RB Left	9.13	10.18	12.56	14.03	15.98	18.36	<=20	Pass
		Inner 1RB Right	9.22	7.83	13.08	14.12	13.63	18.88	<=20	Pass

Note1: Antenna Gain: Ant1: 4.90dBi; Ant2: 5.80dBi;

Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2



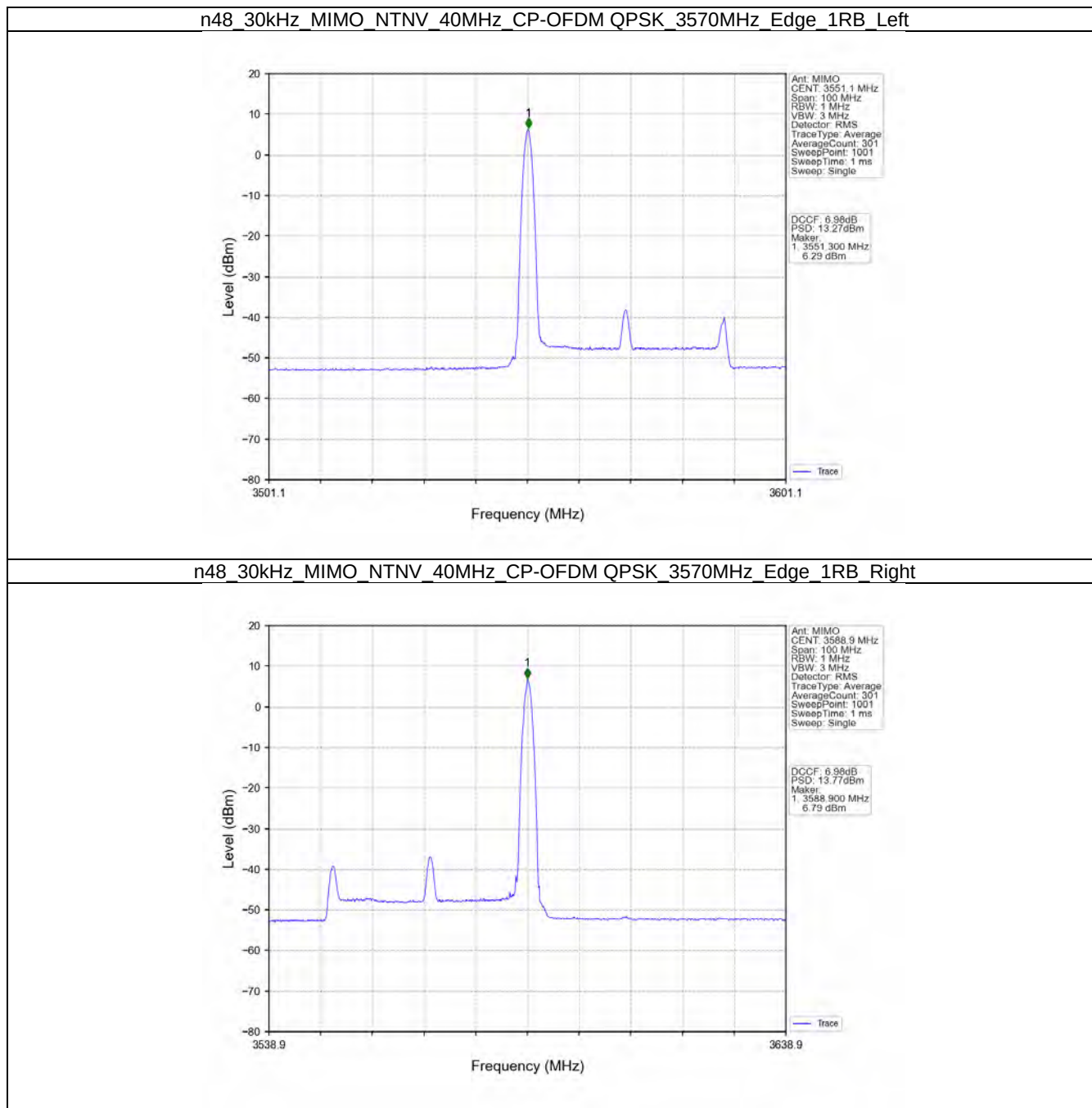
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2.9.2 Test Graph



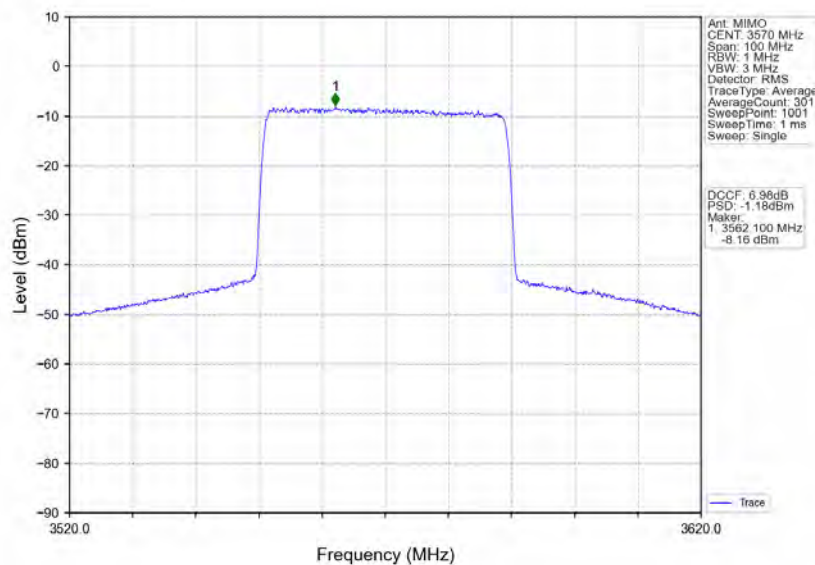
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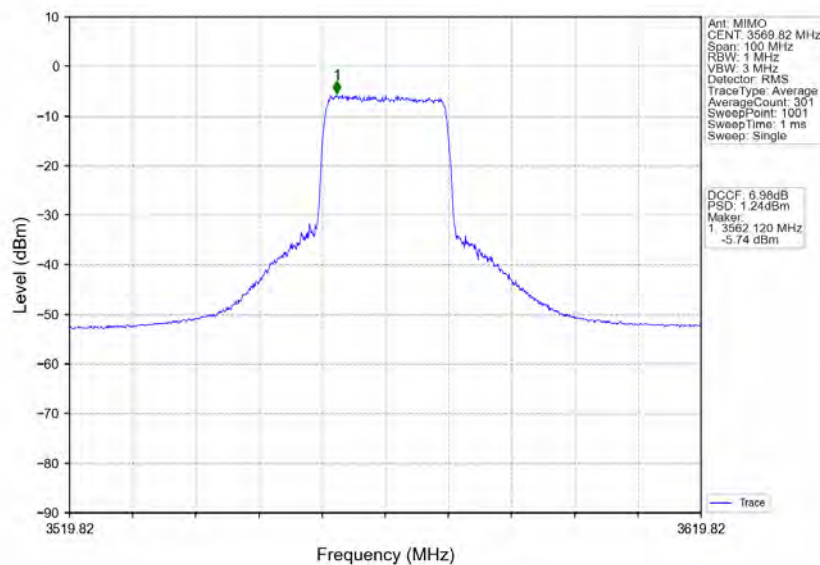
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Inner_Full



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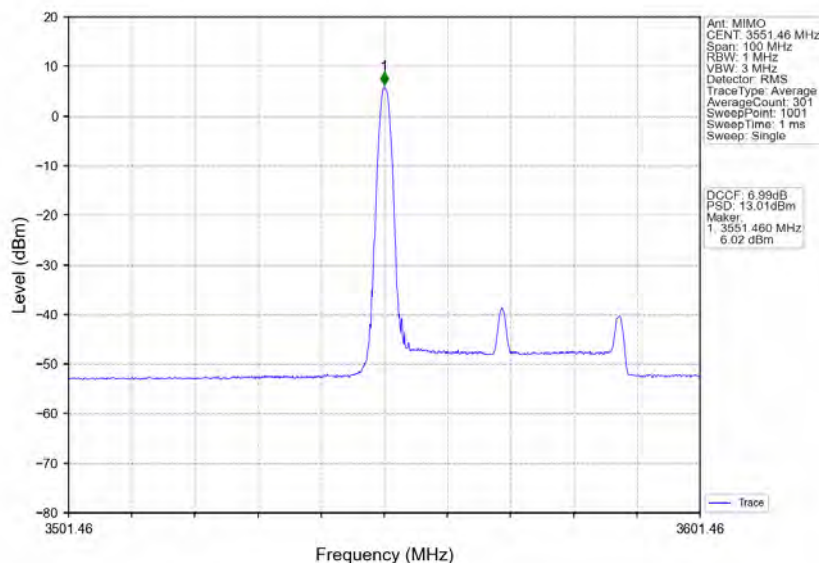
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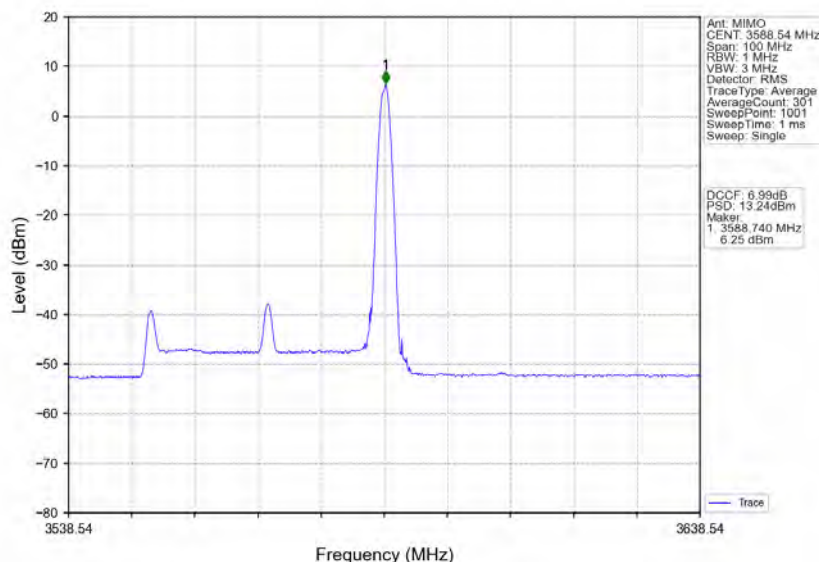
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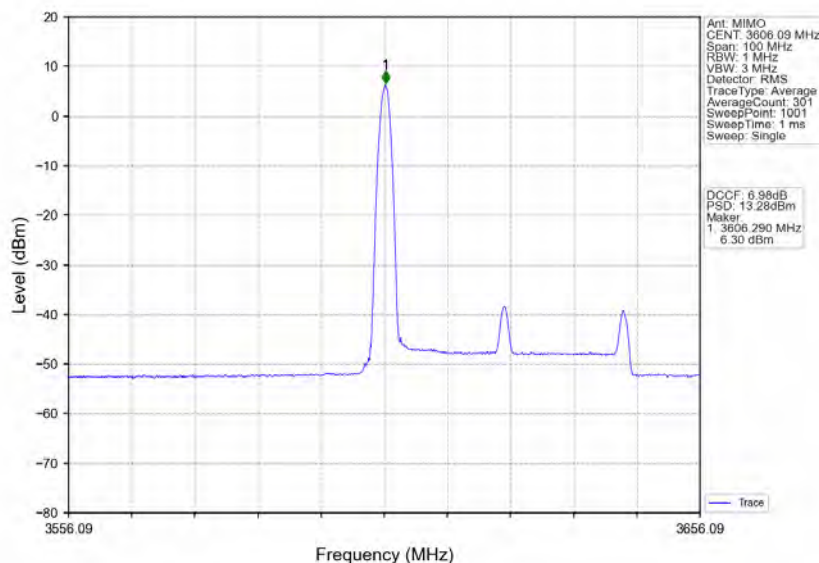
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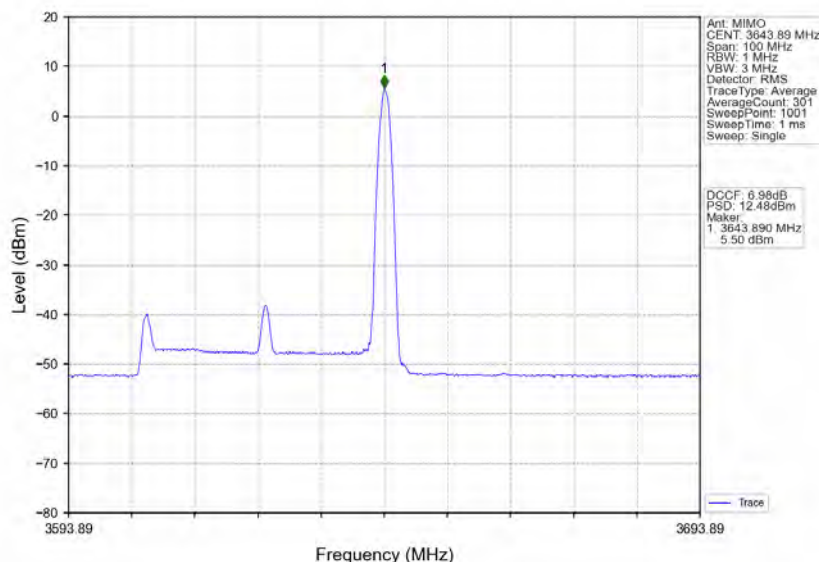
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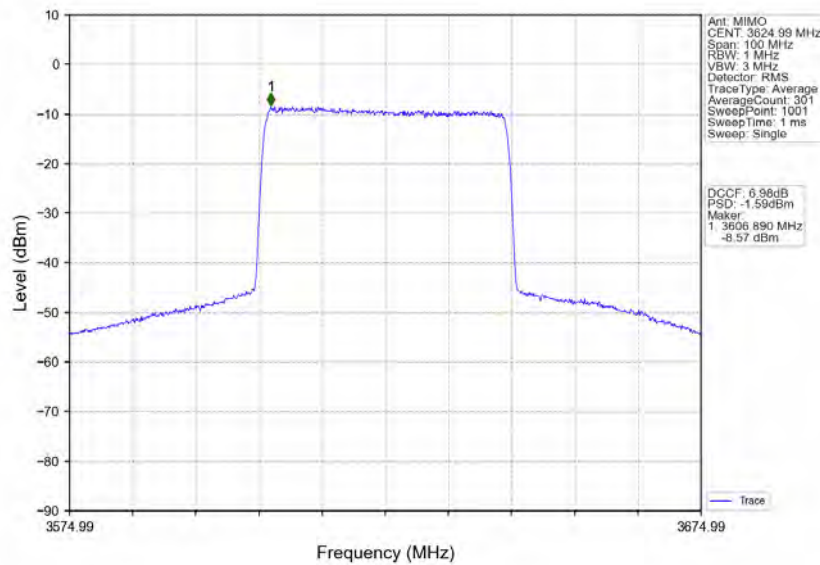
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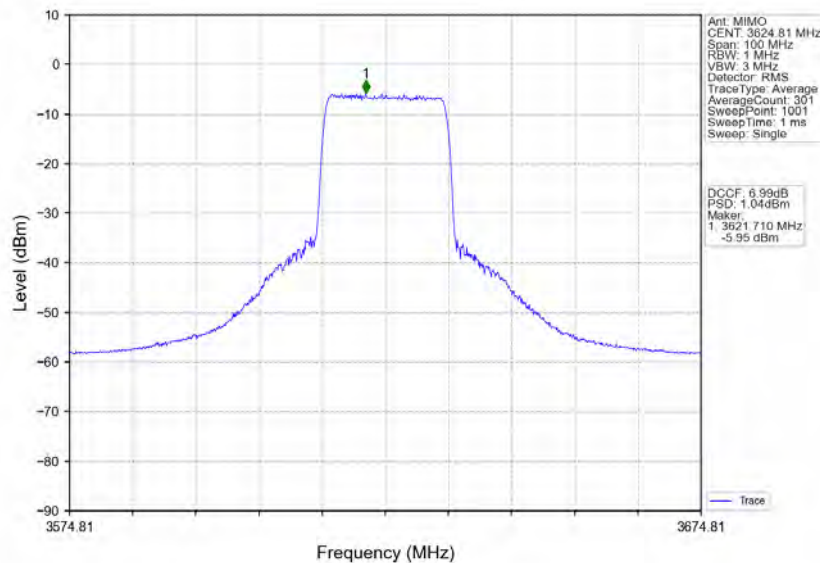
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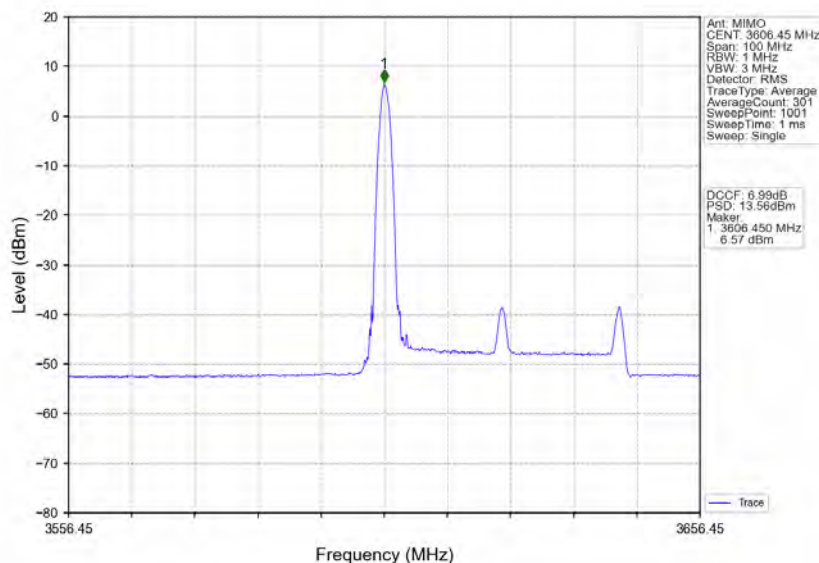
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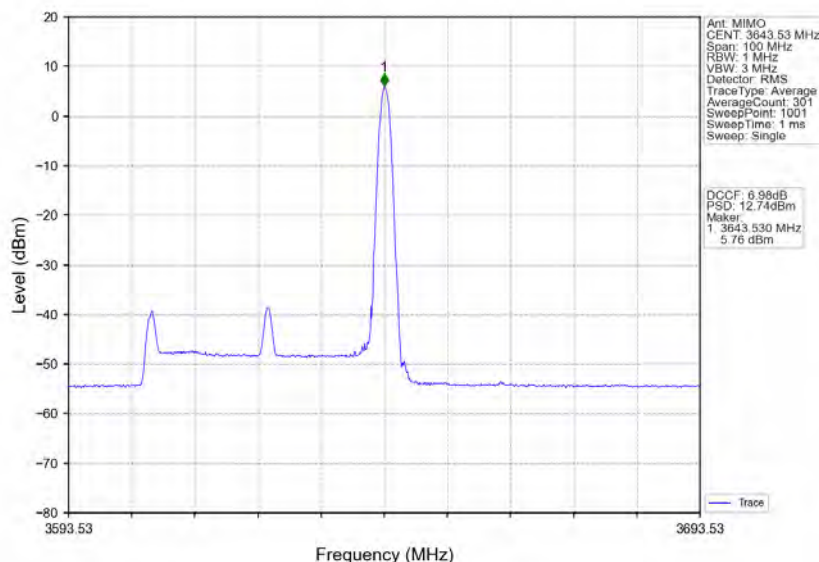
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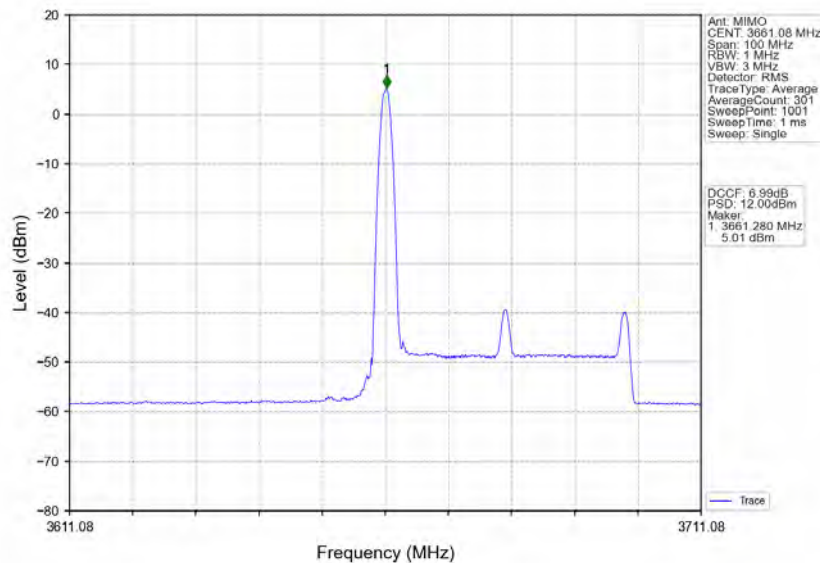
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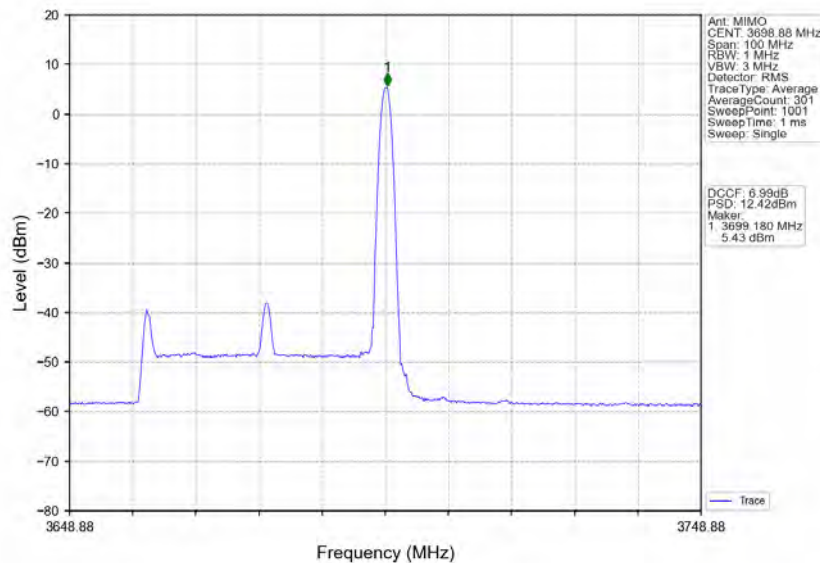
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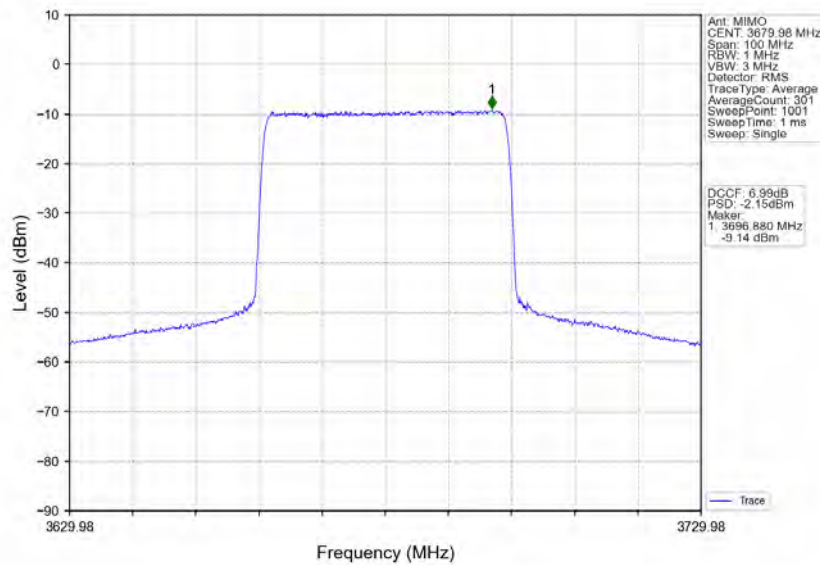
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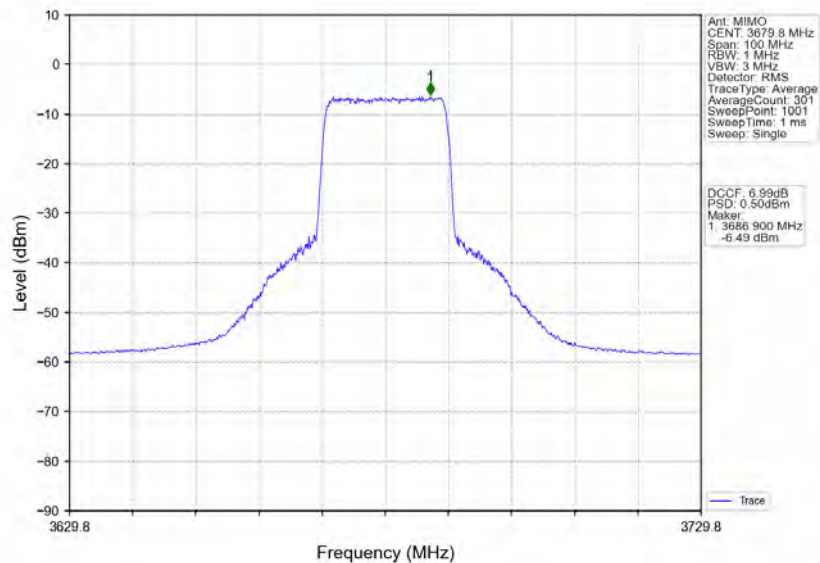
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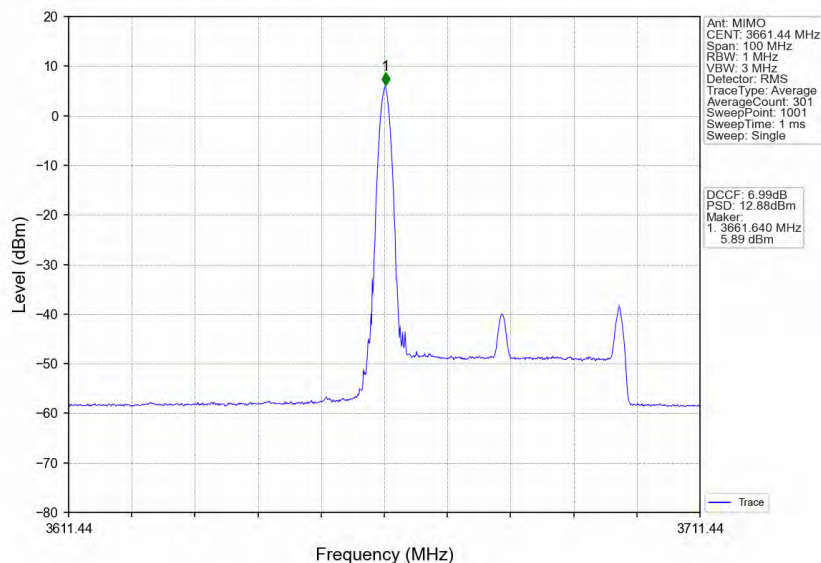
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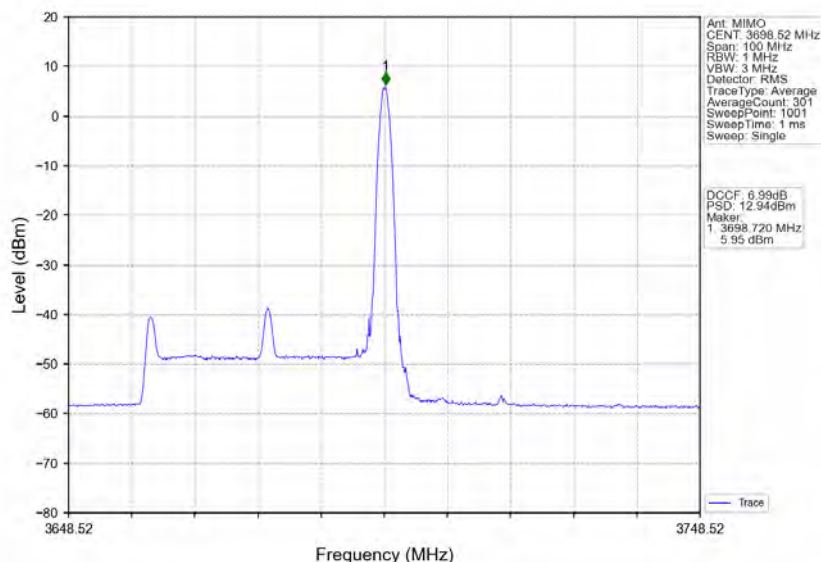
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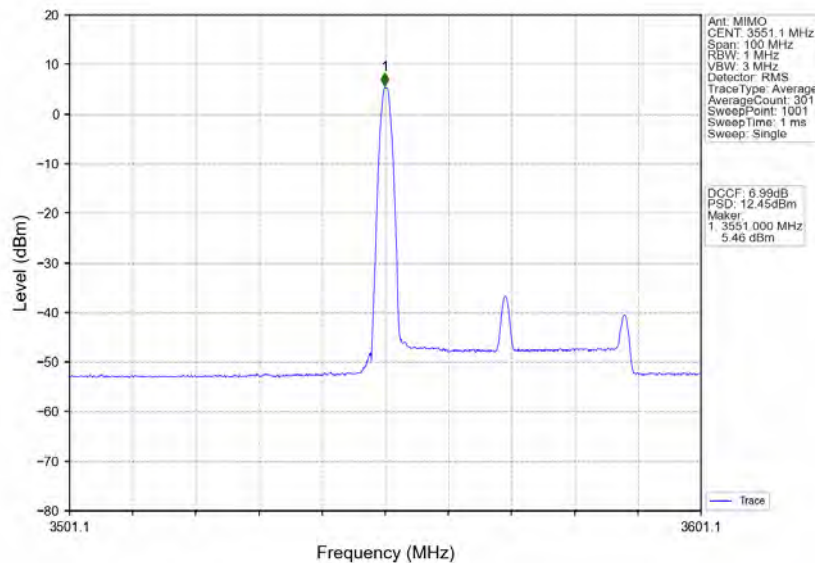
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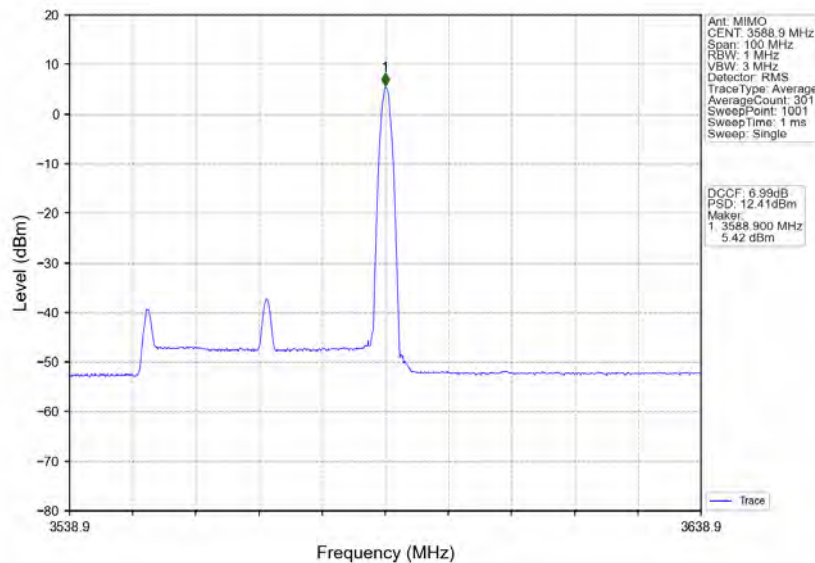
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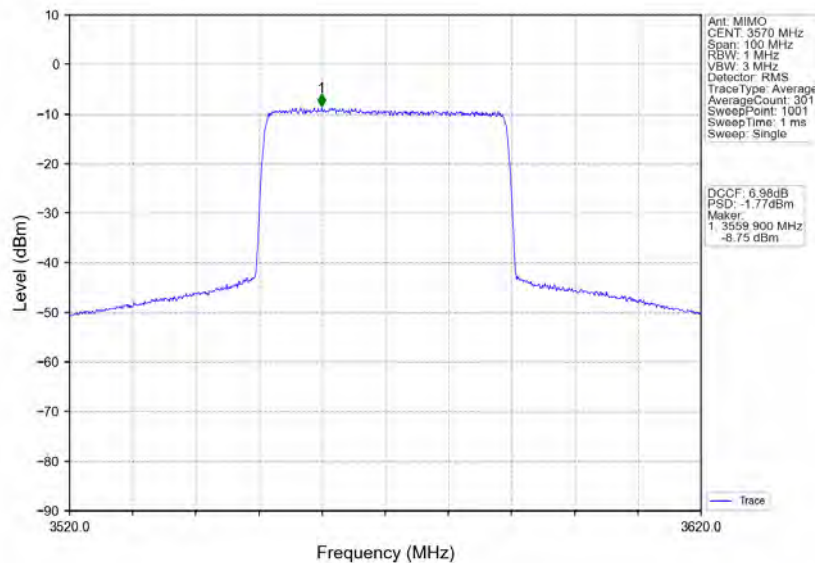
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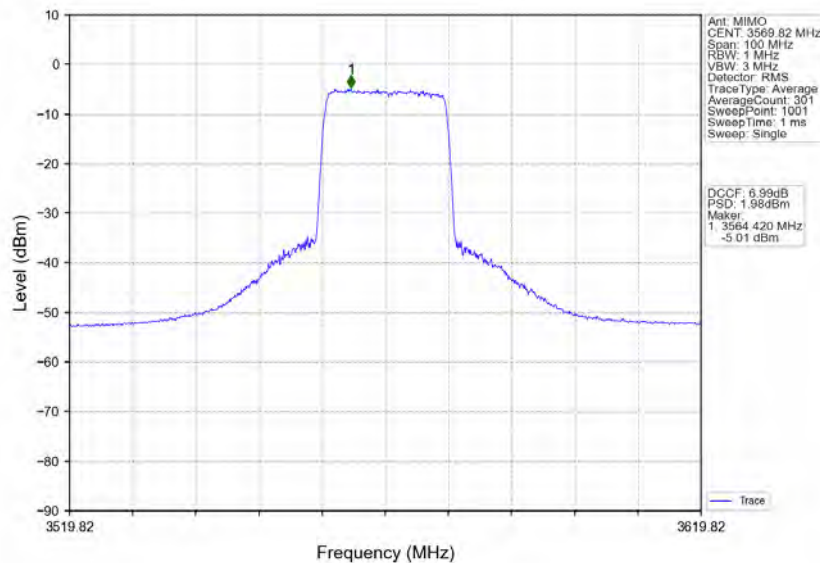
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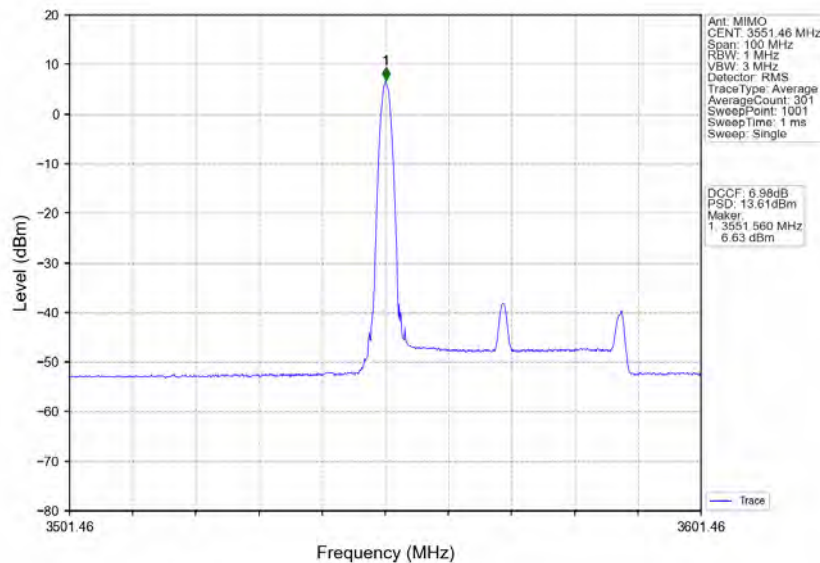
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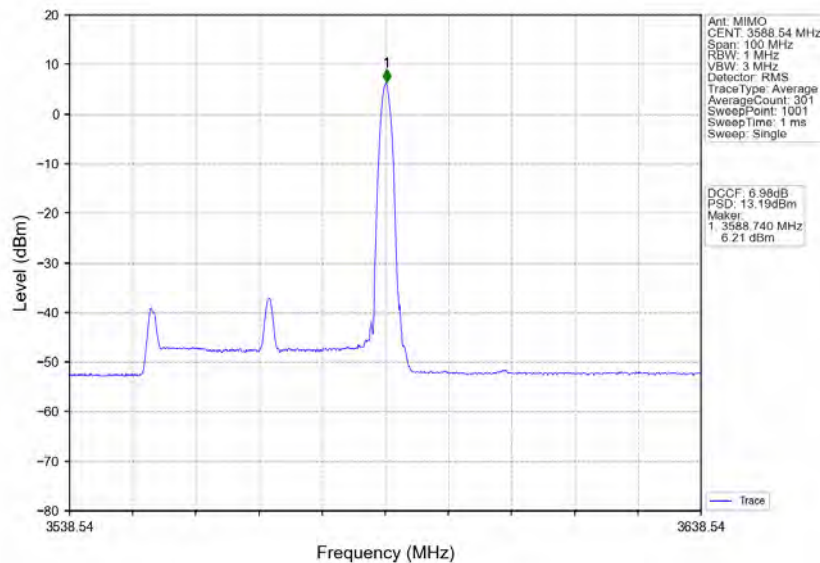
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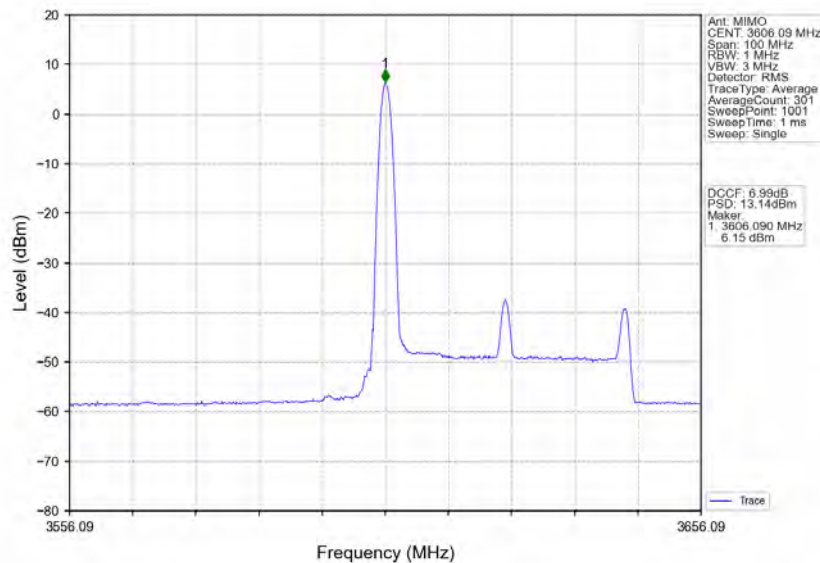
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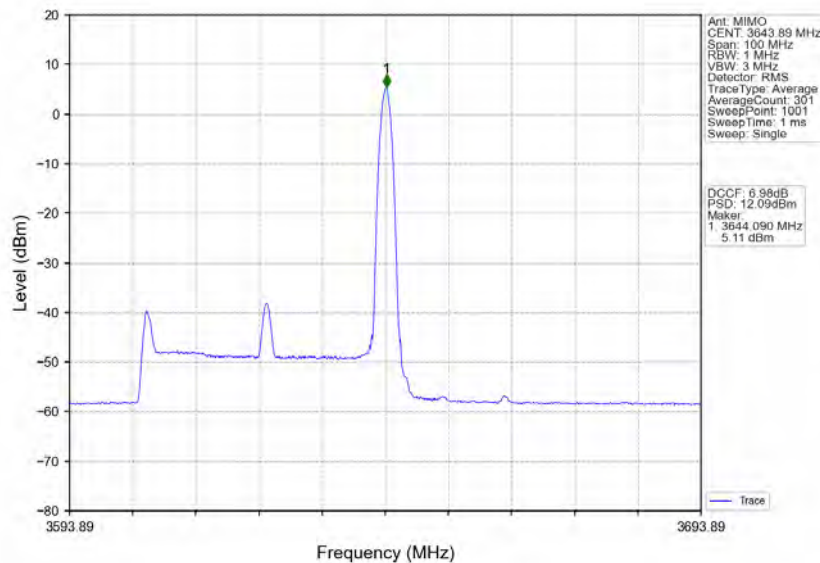
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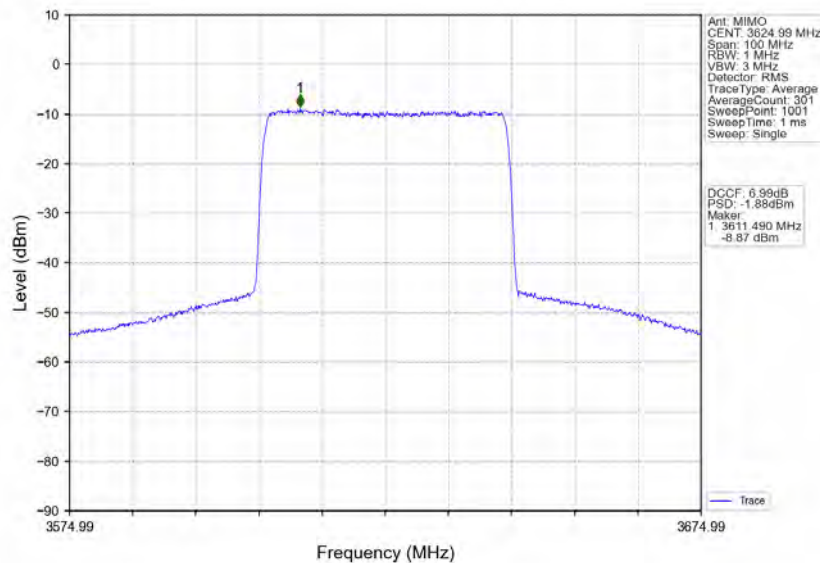
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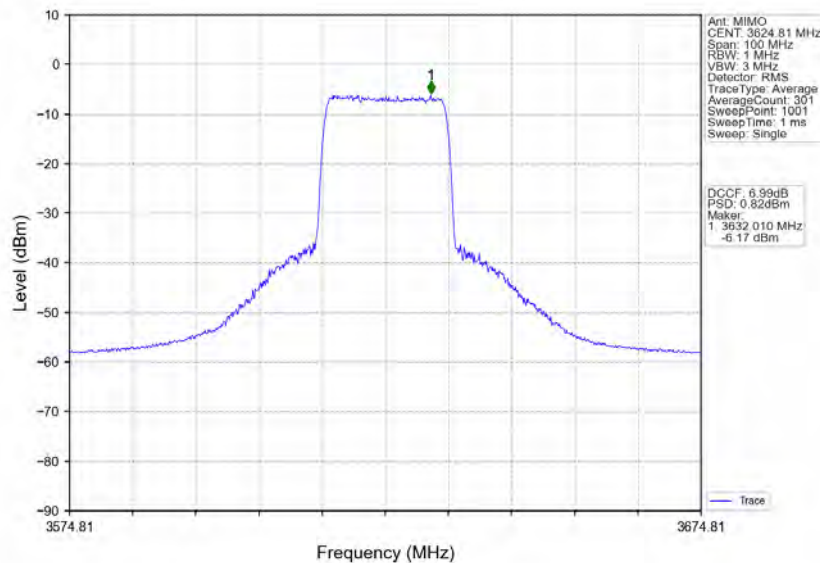
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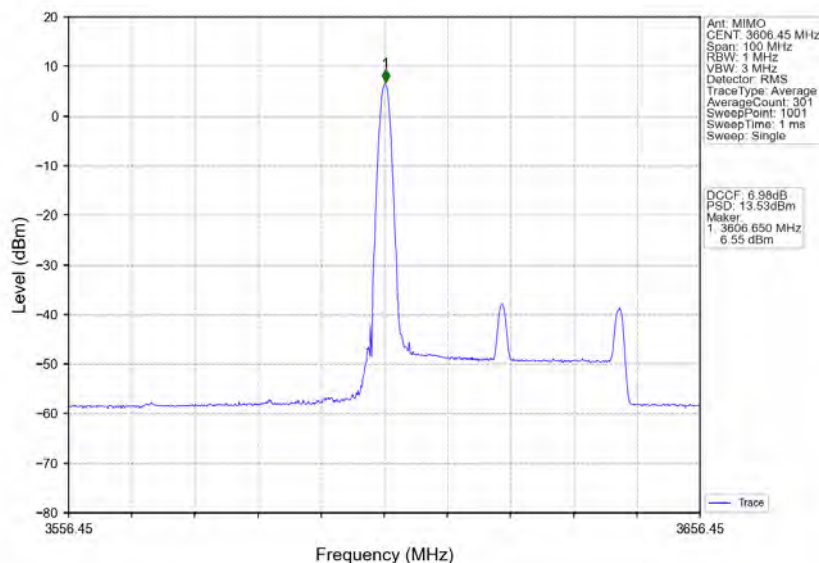
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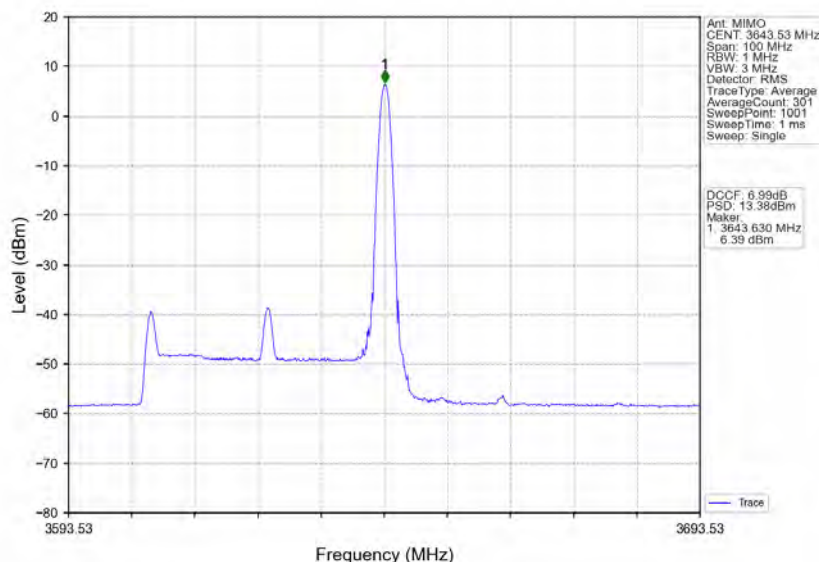
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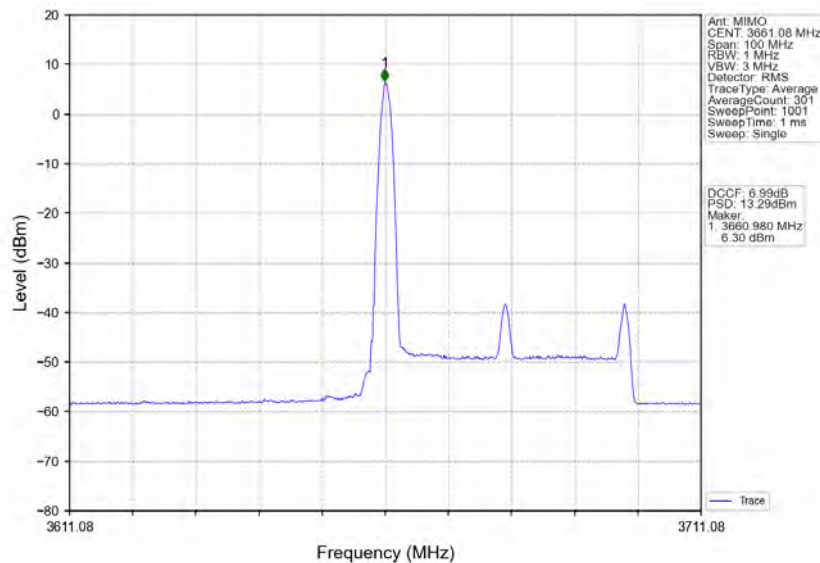
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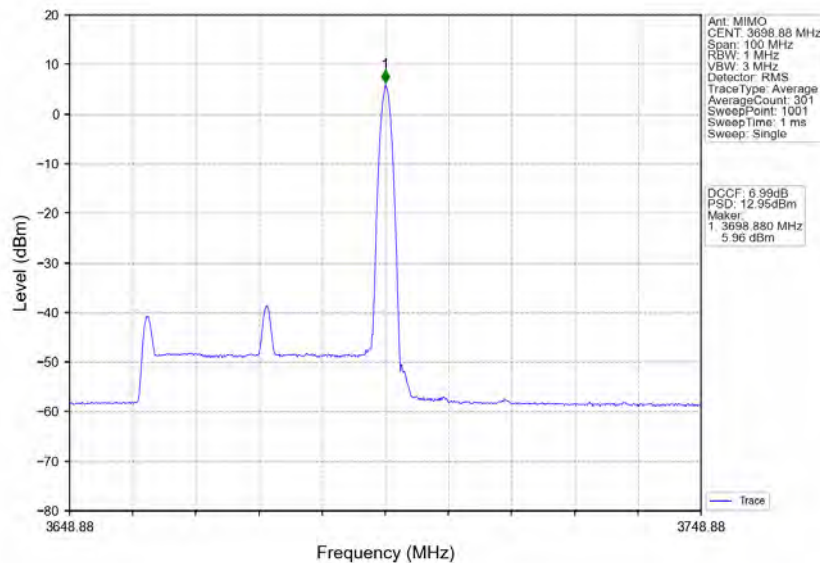
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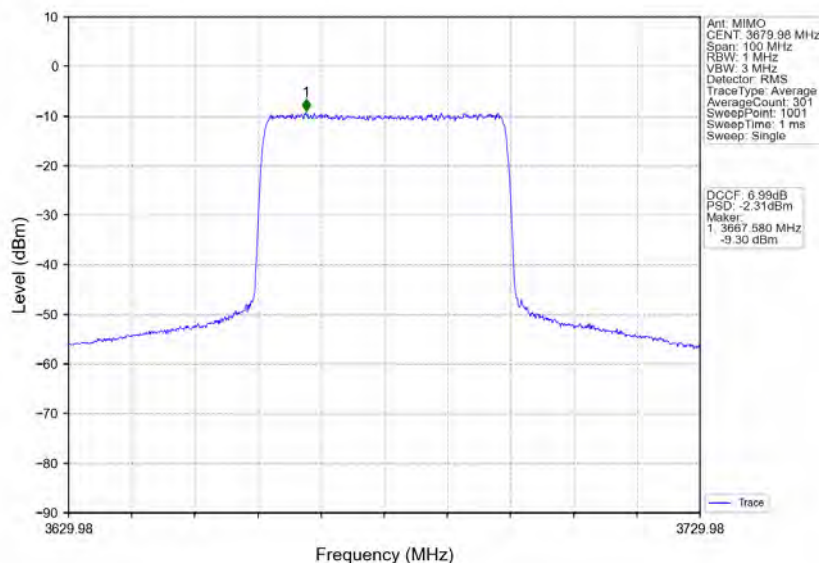
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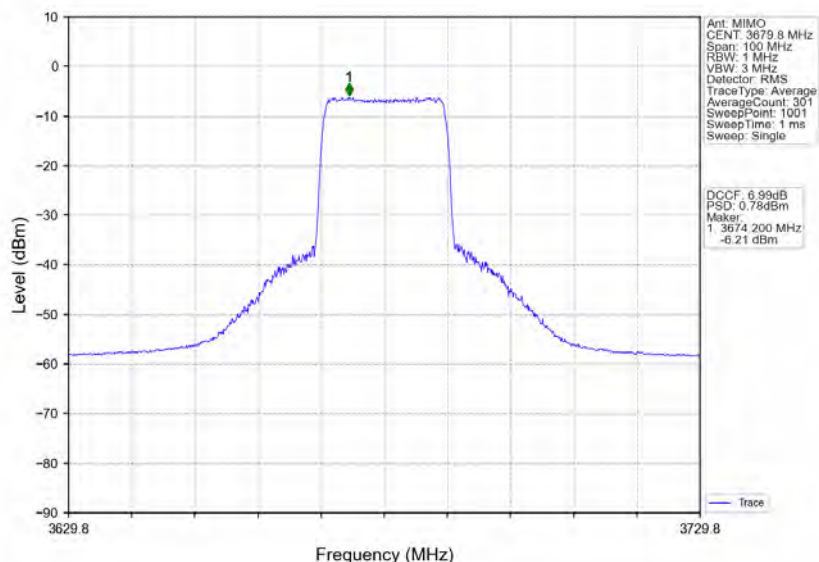
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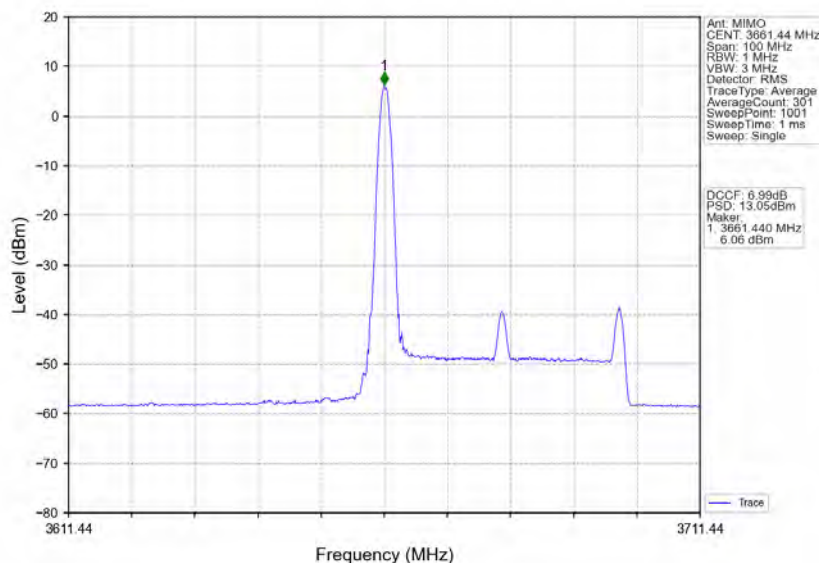
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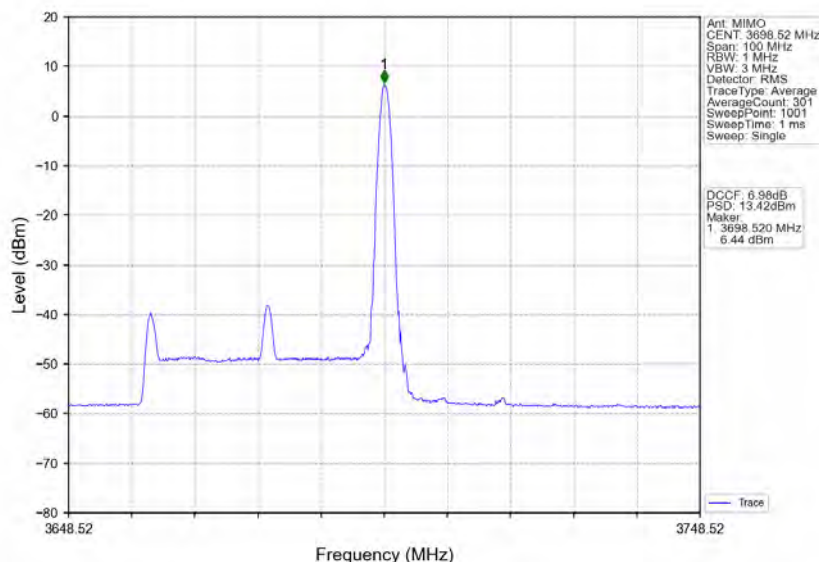
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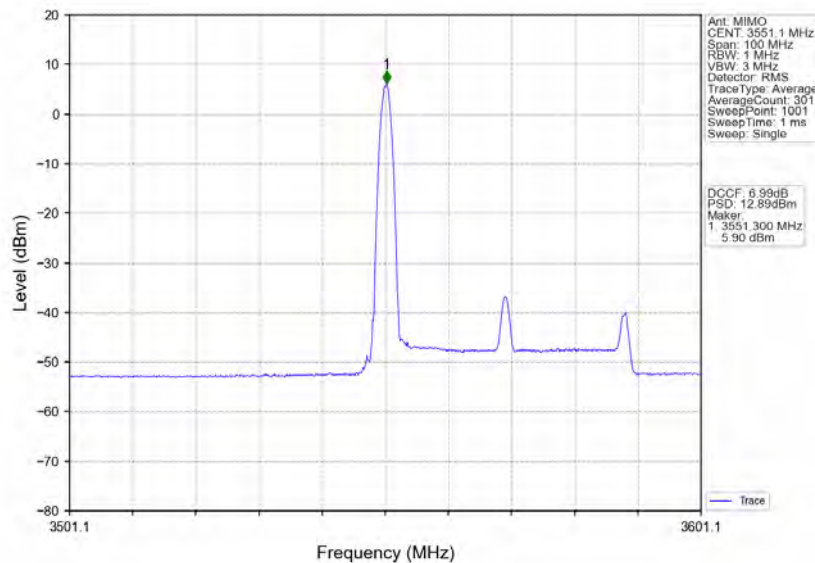
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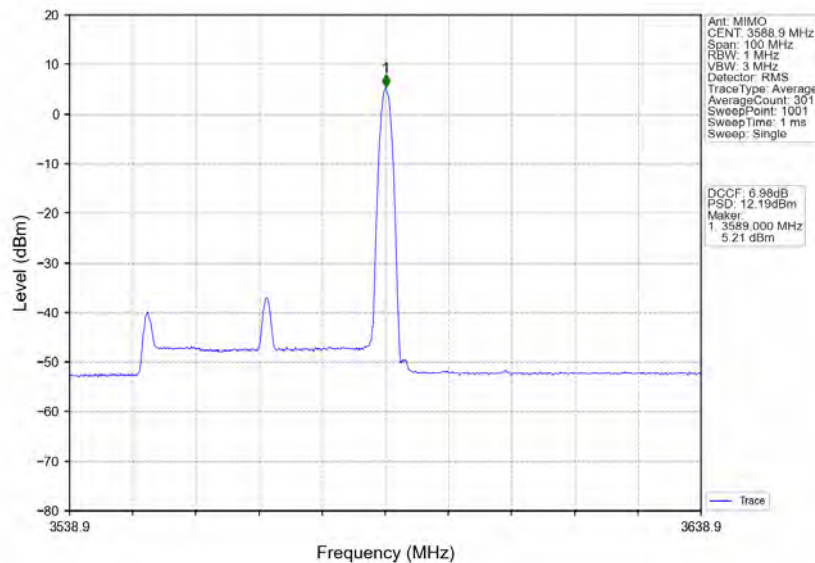
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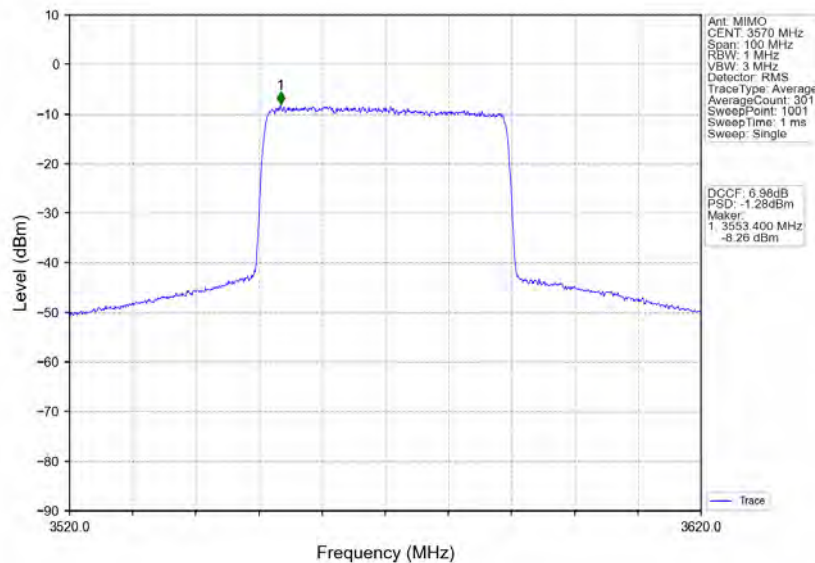
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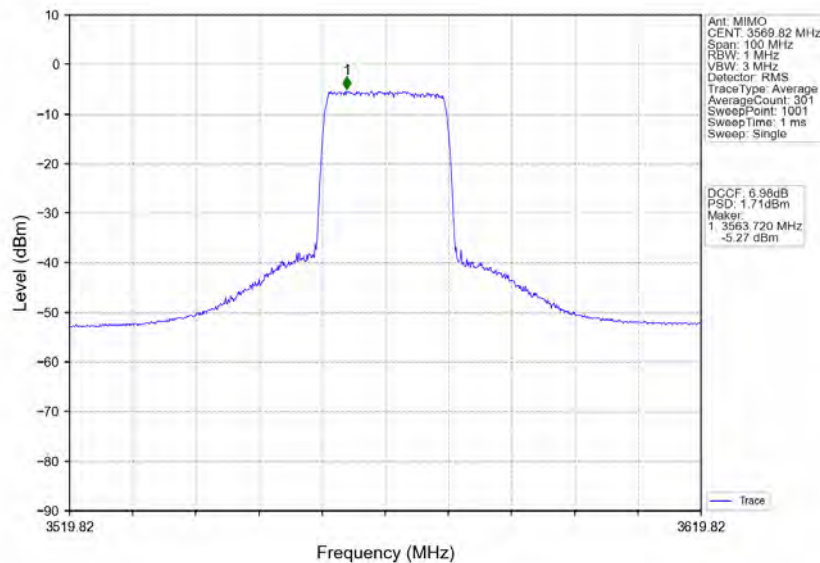
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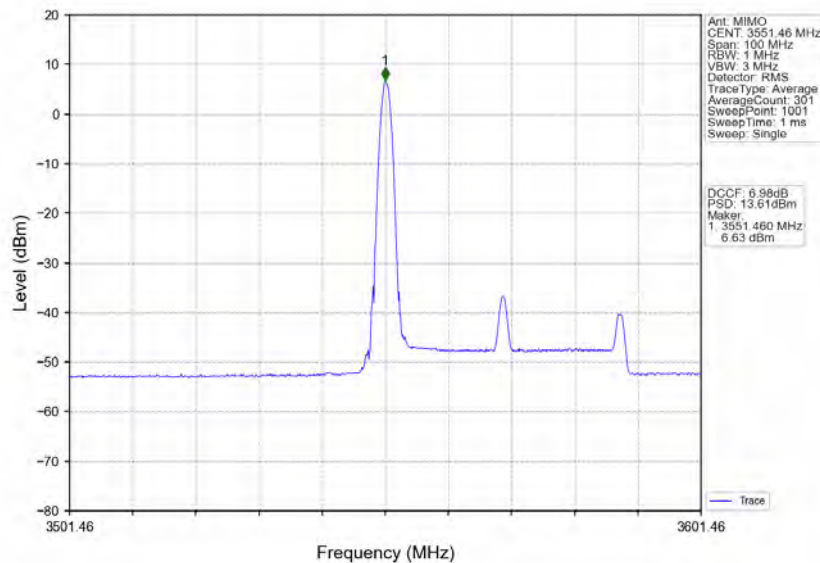
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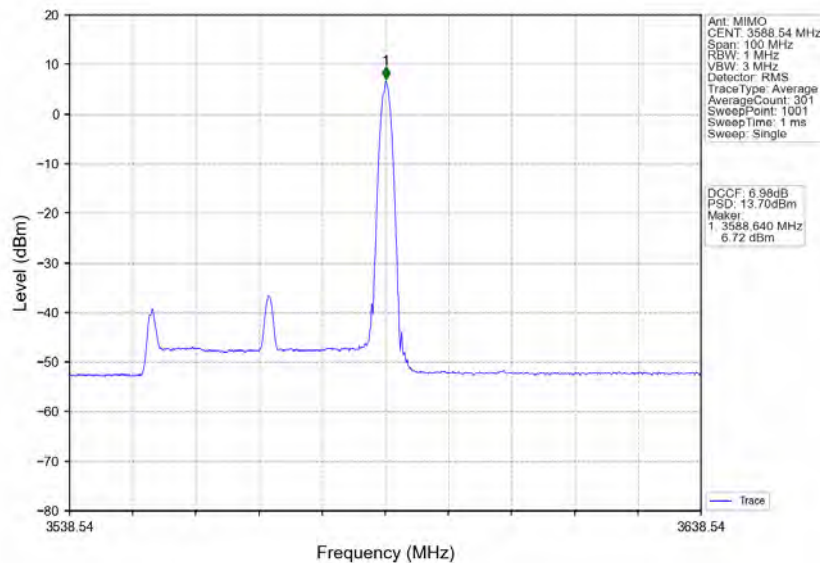
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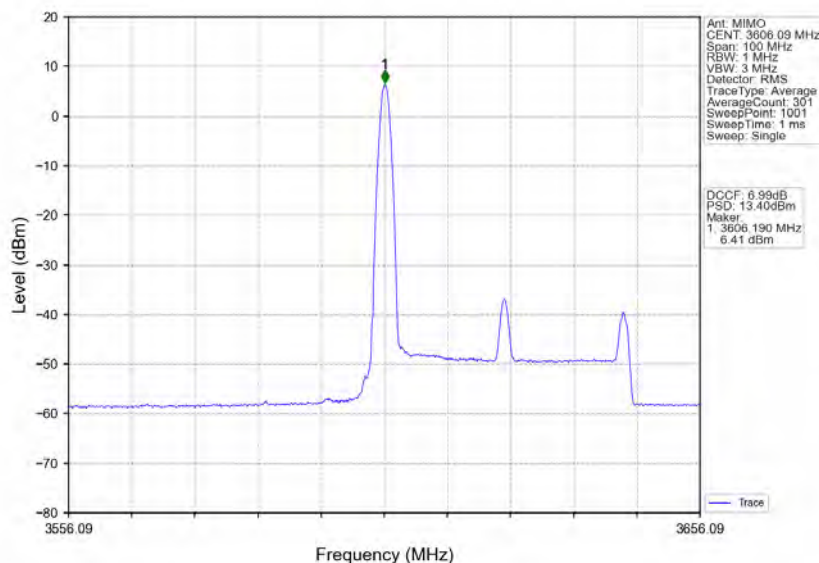
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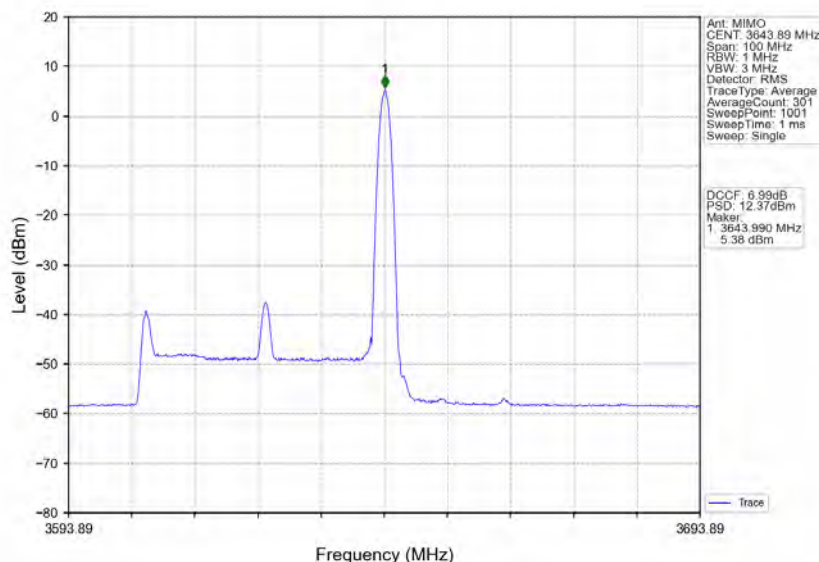
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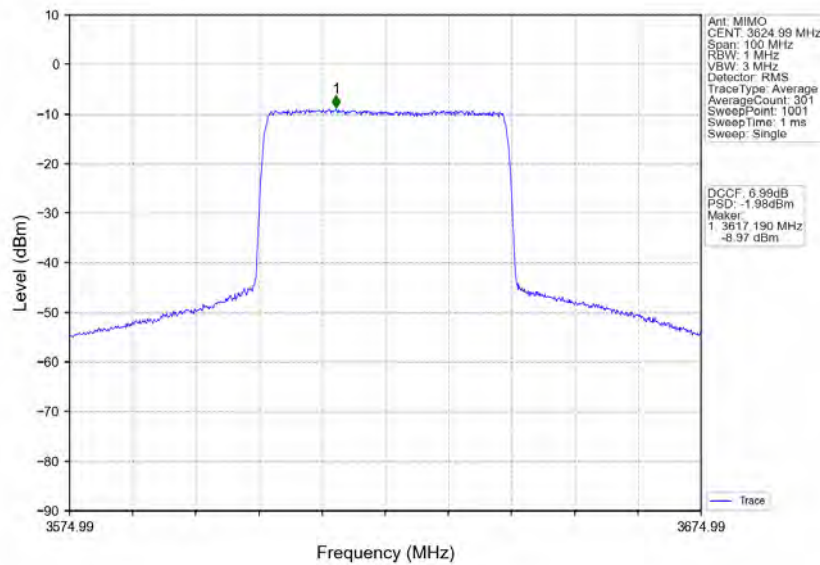
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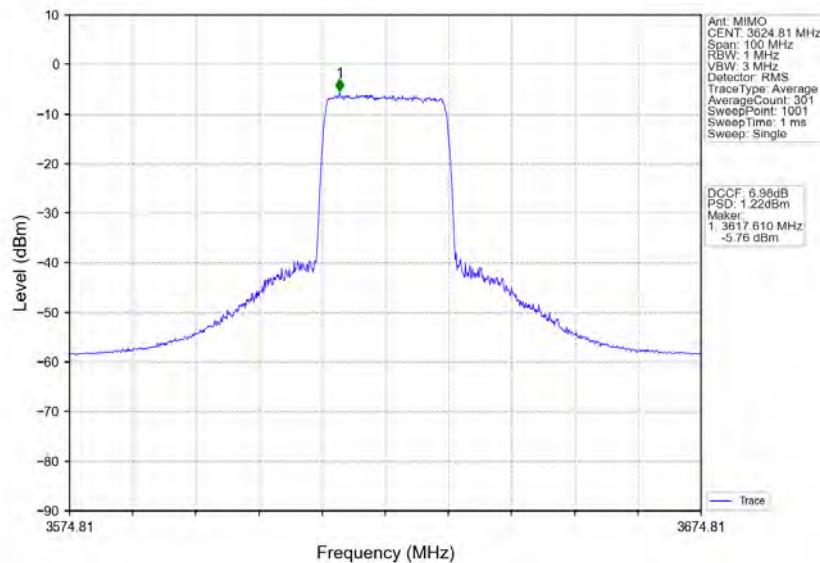
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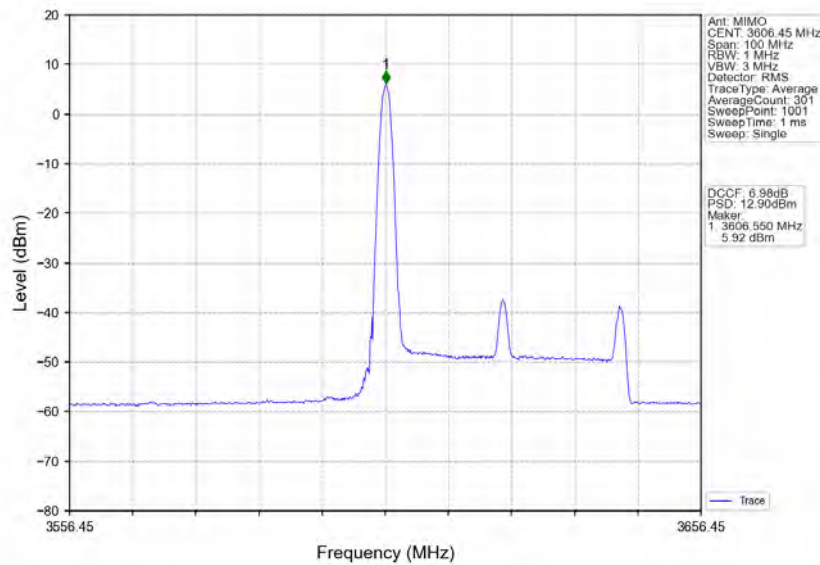
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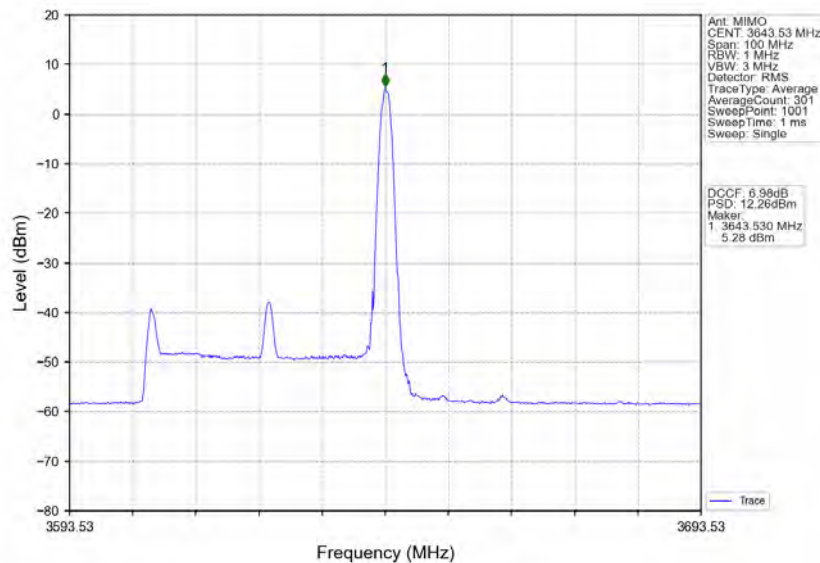
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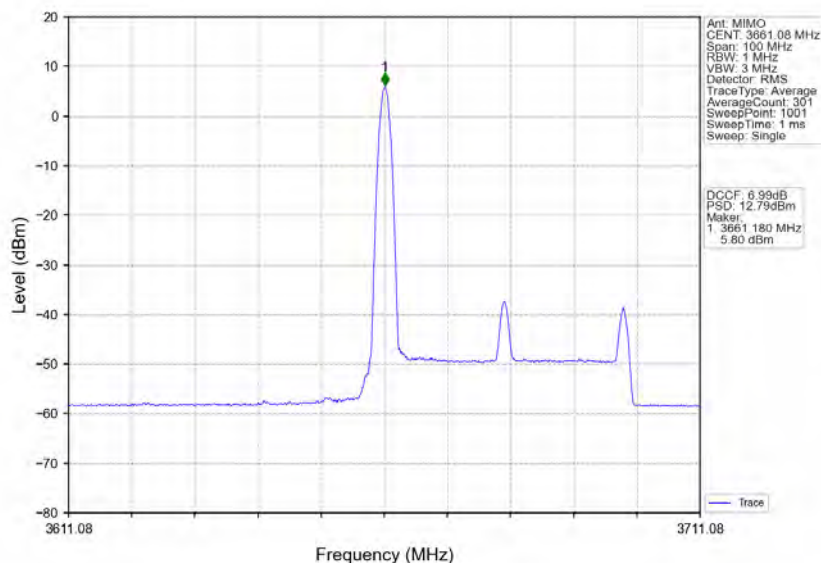
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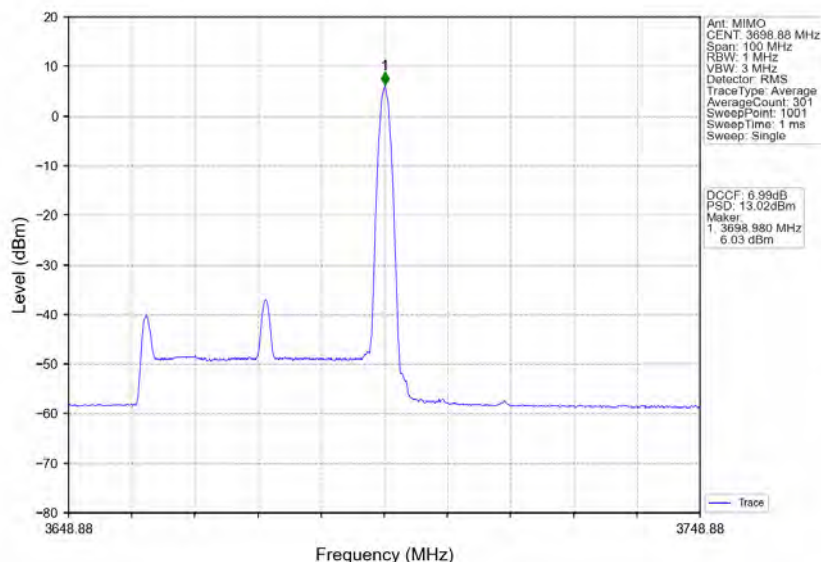
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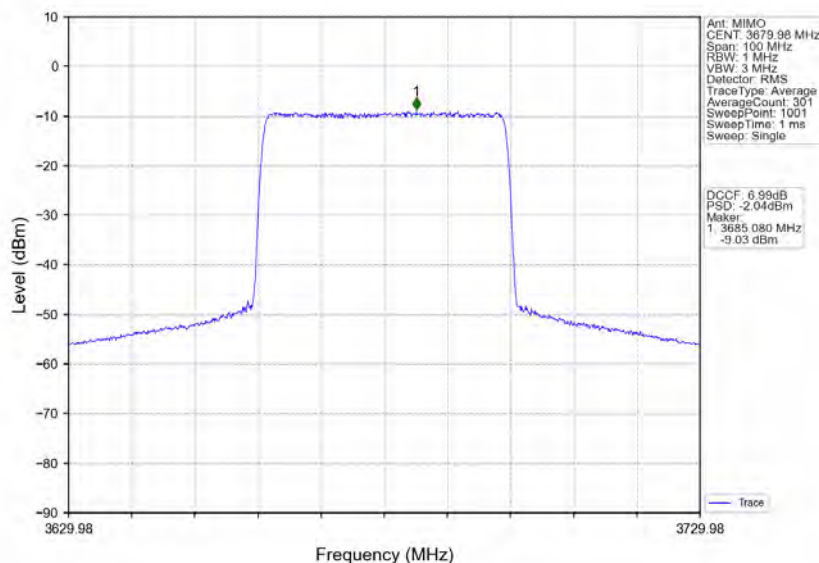
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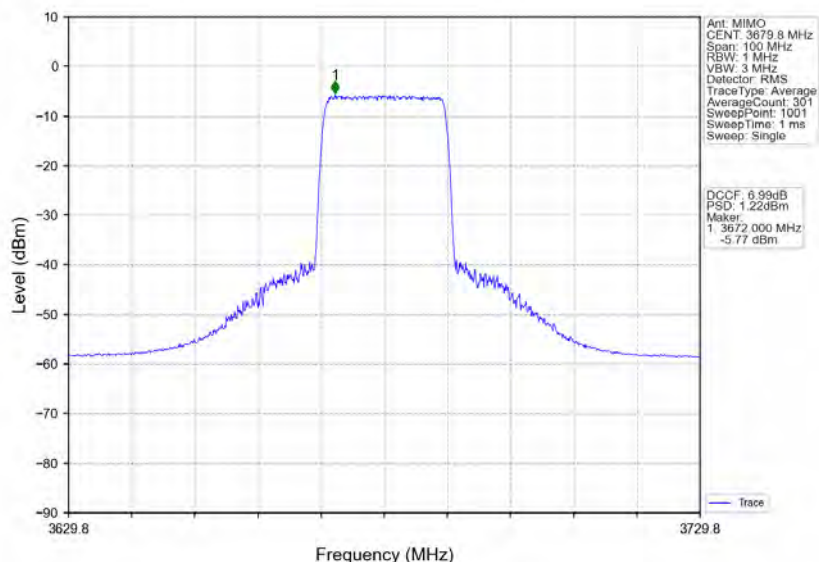
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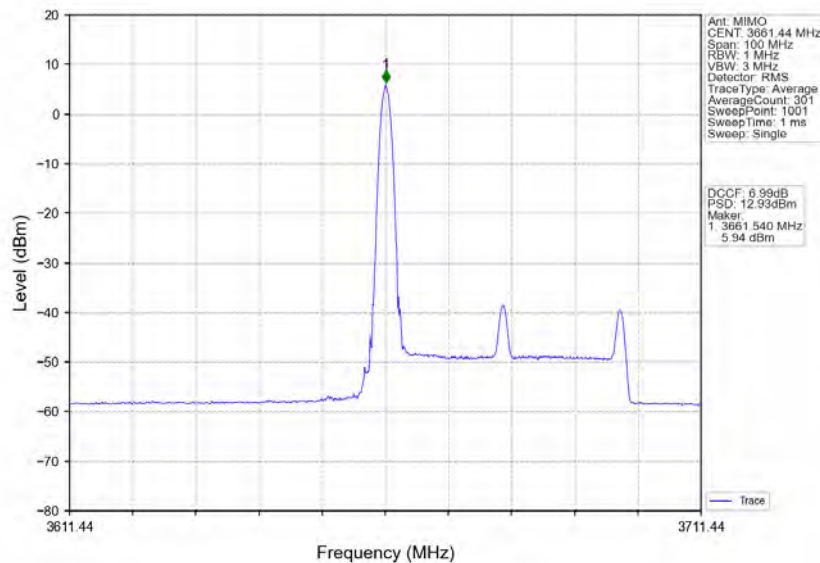
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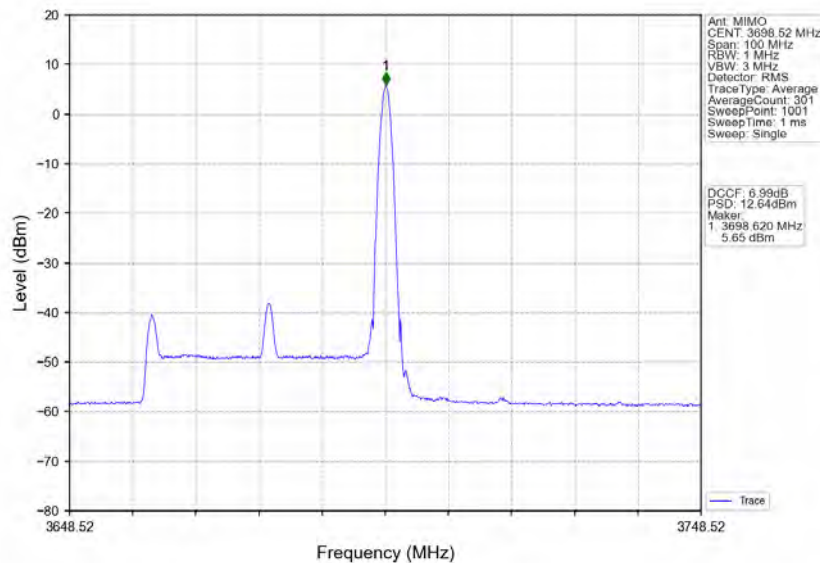
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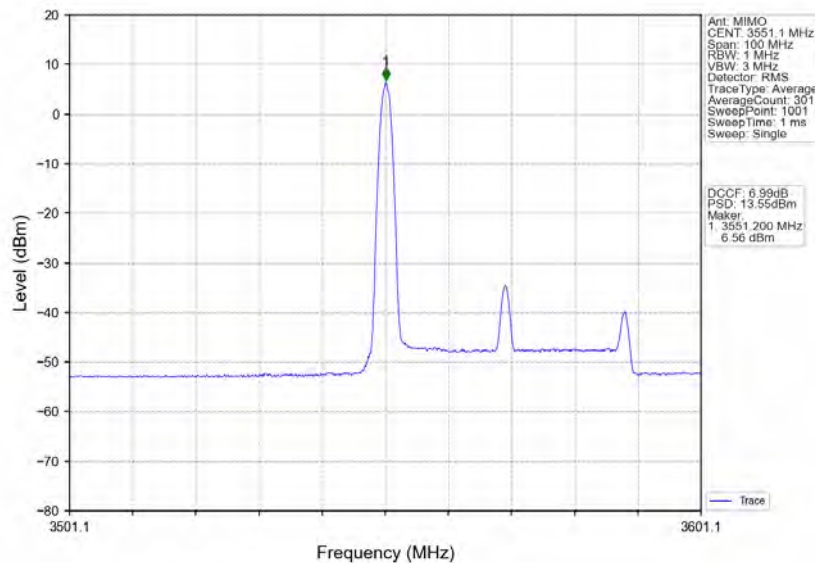
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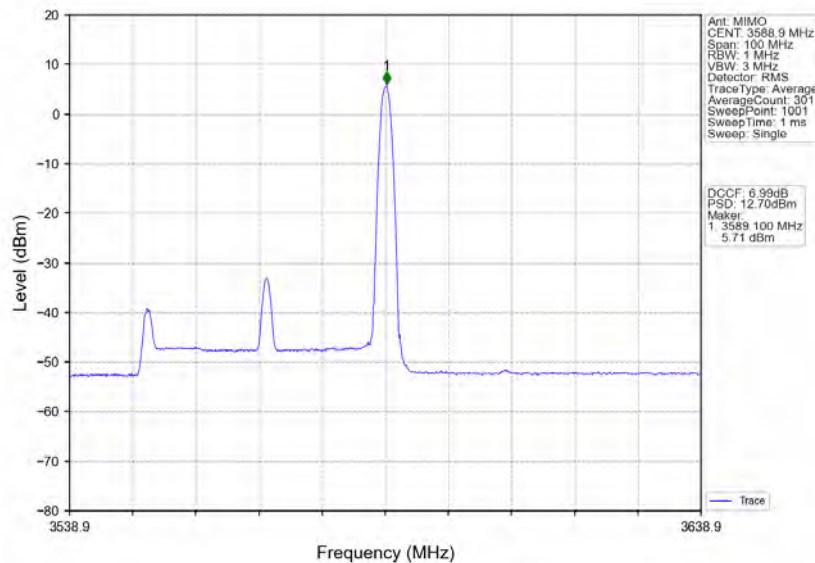
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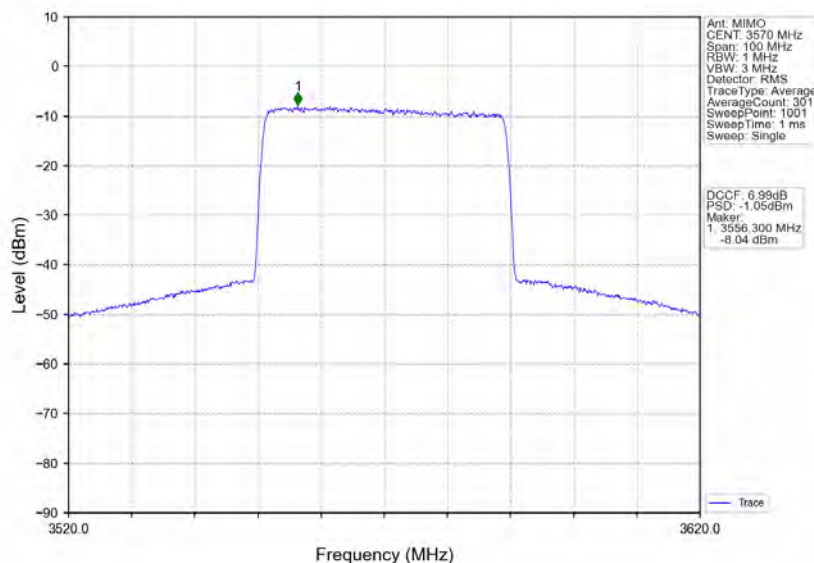
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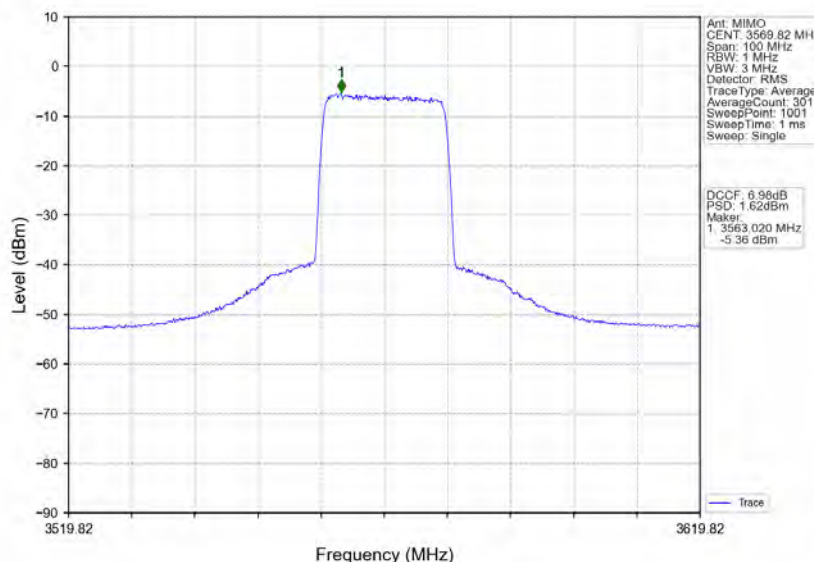
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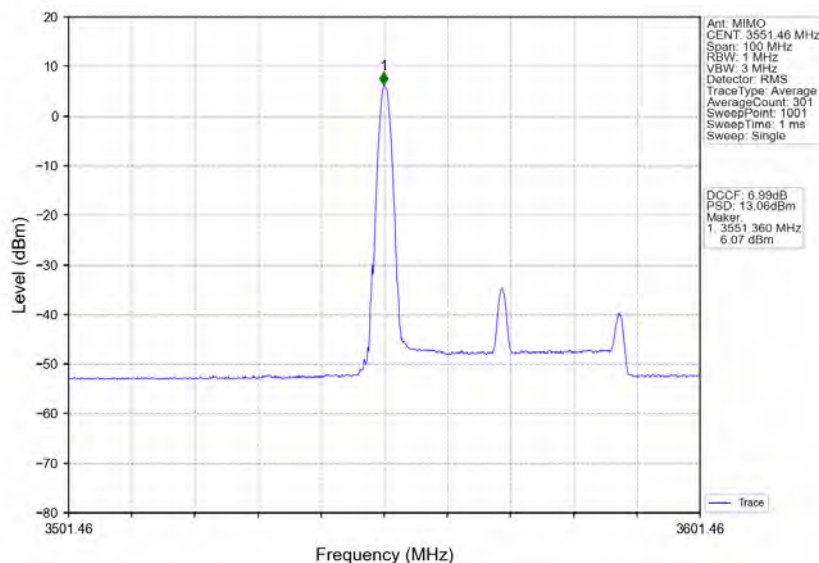
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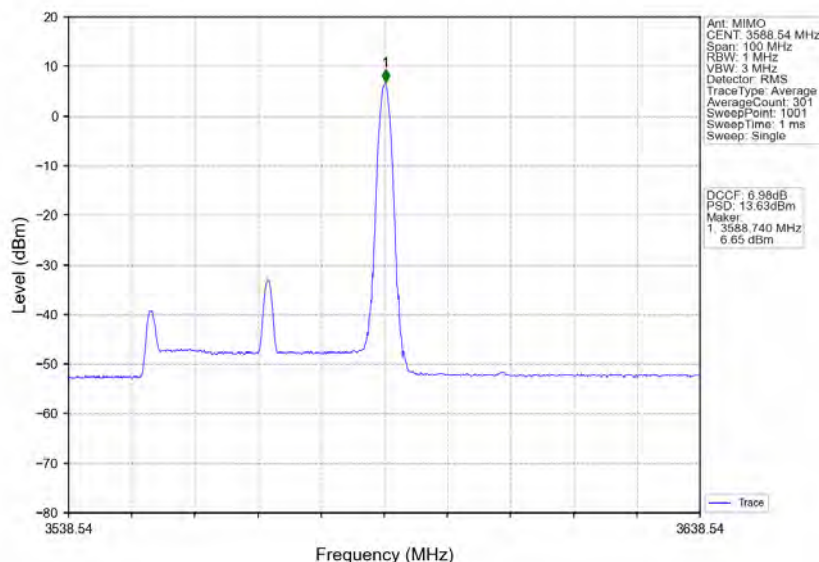
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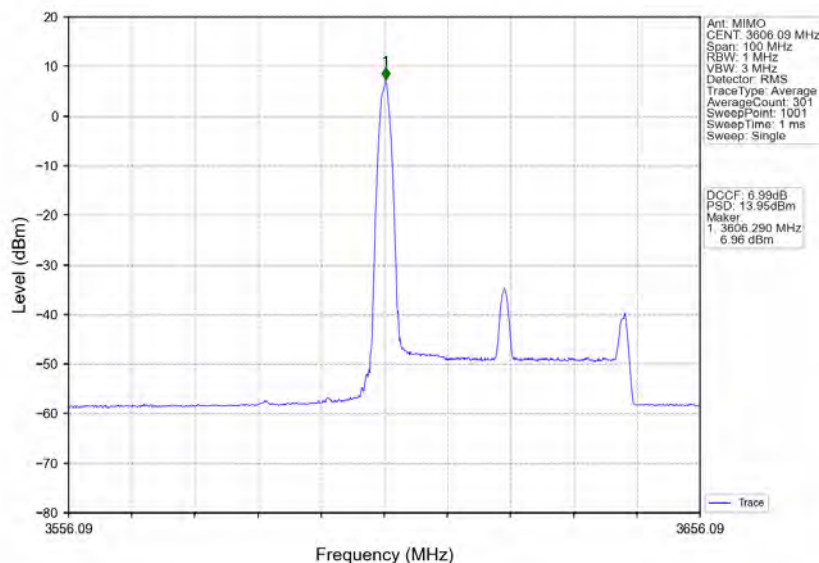
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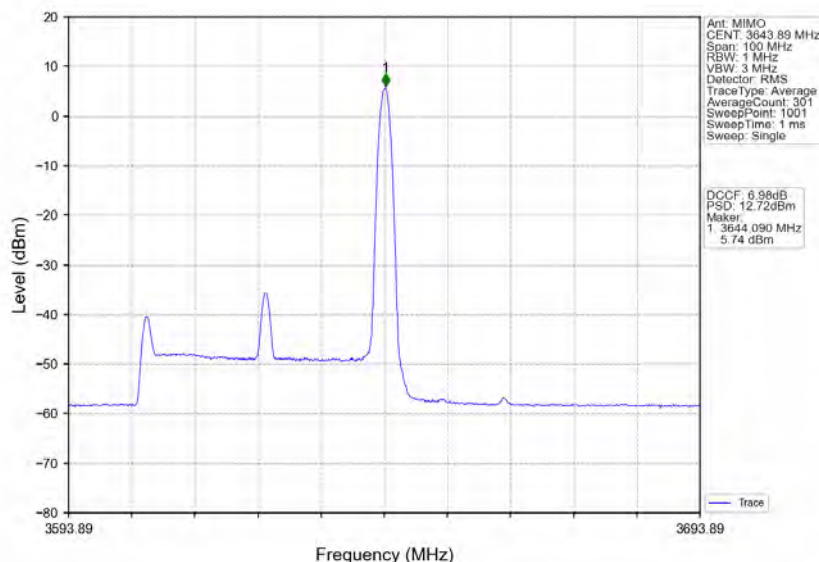
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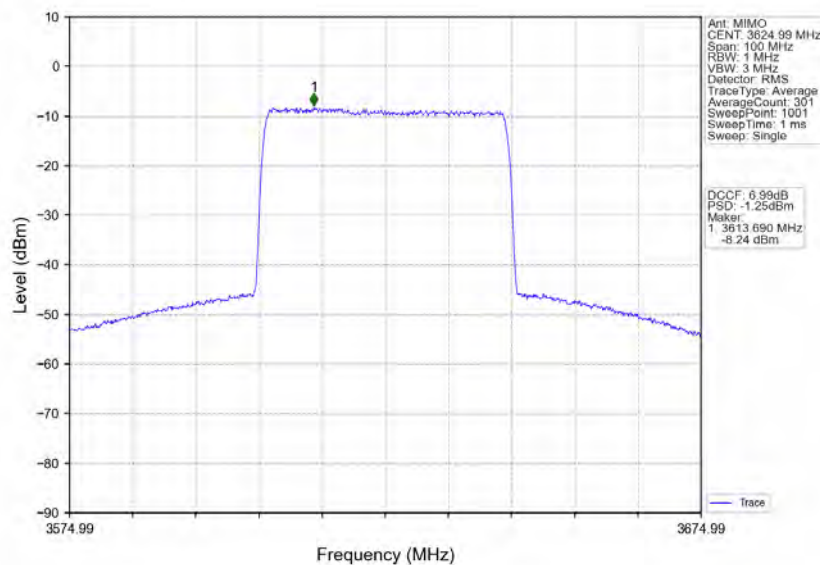
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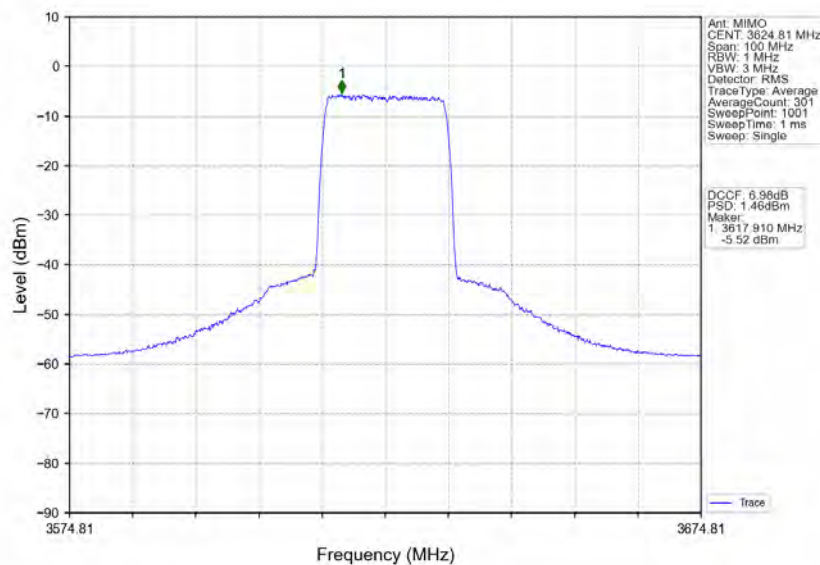
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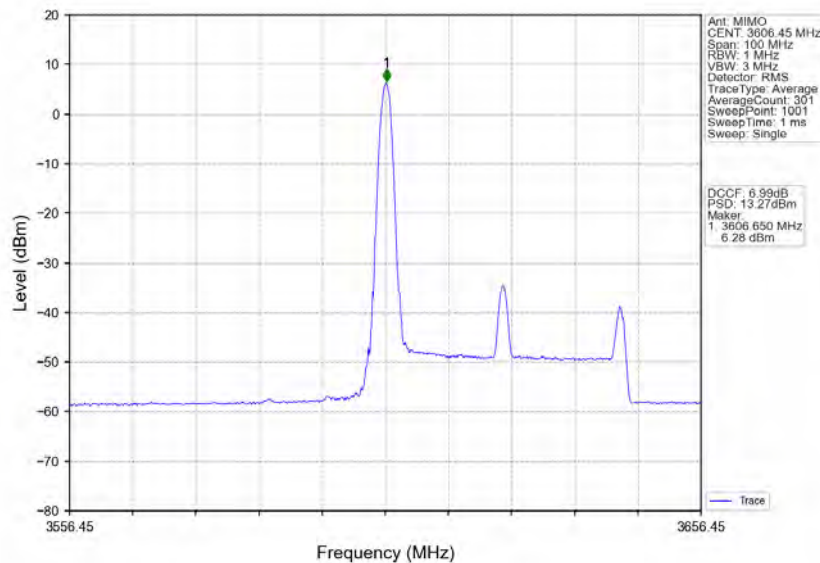
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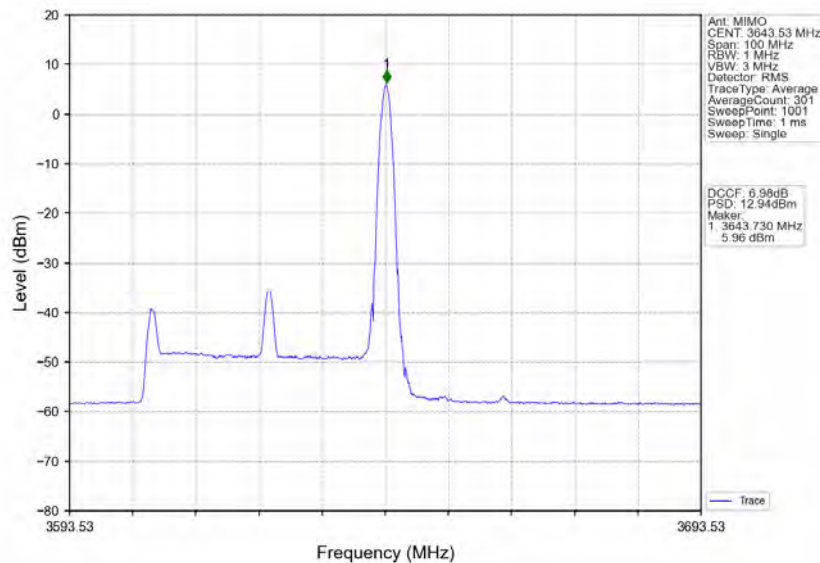
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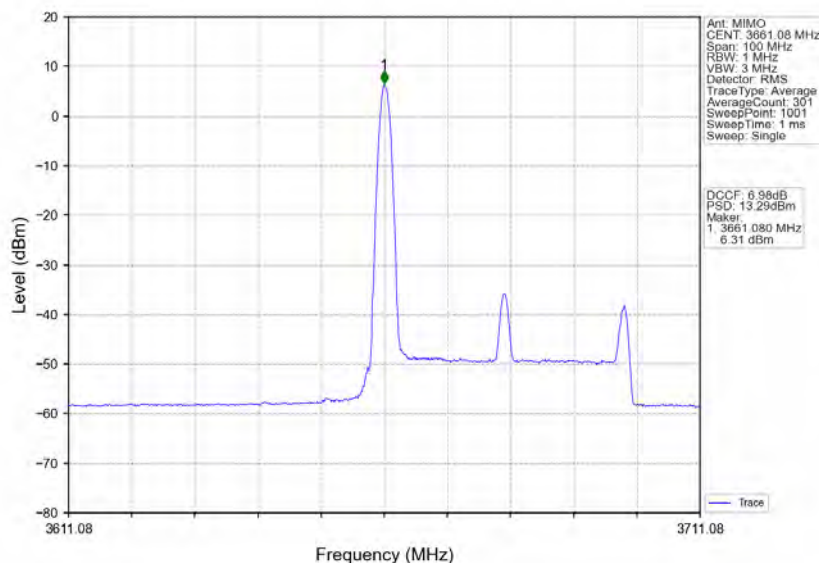
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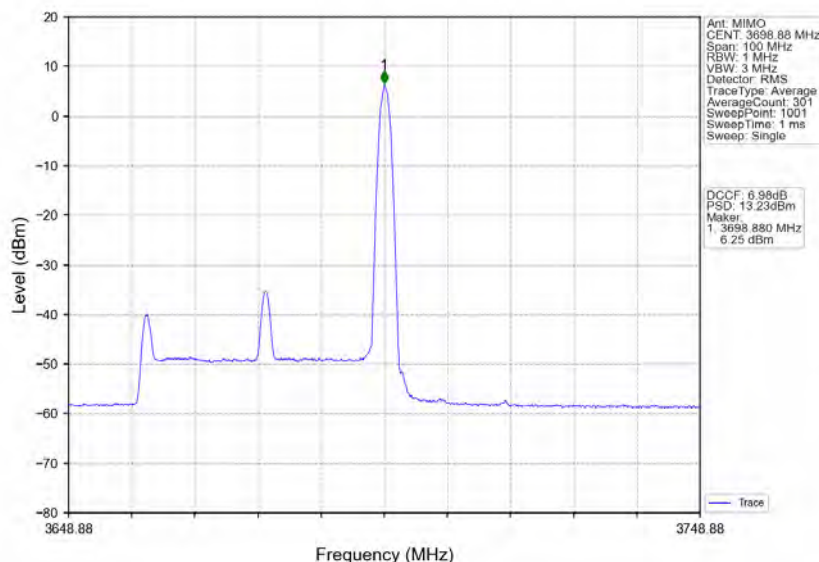
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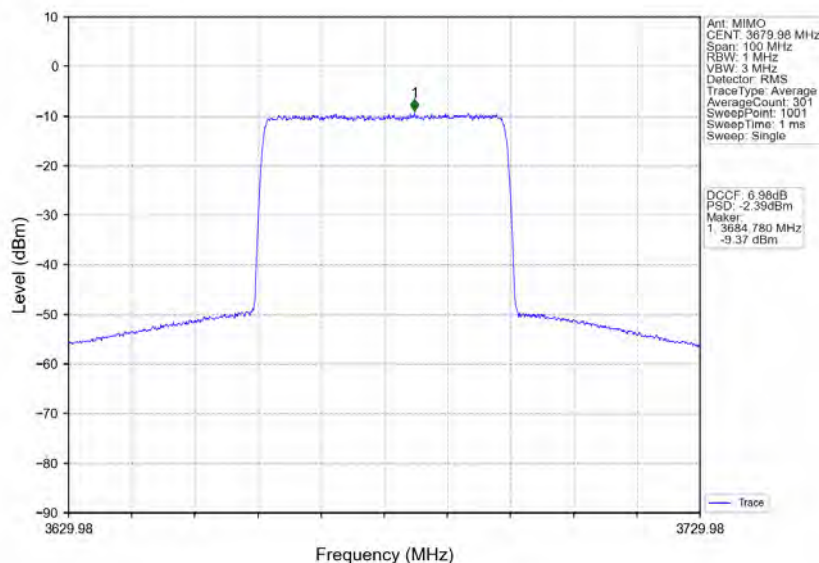
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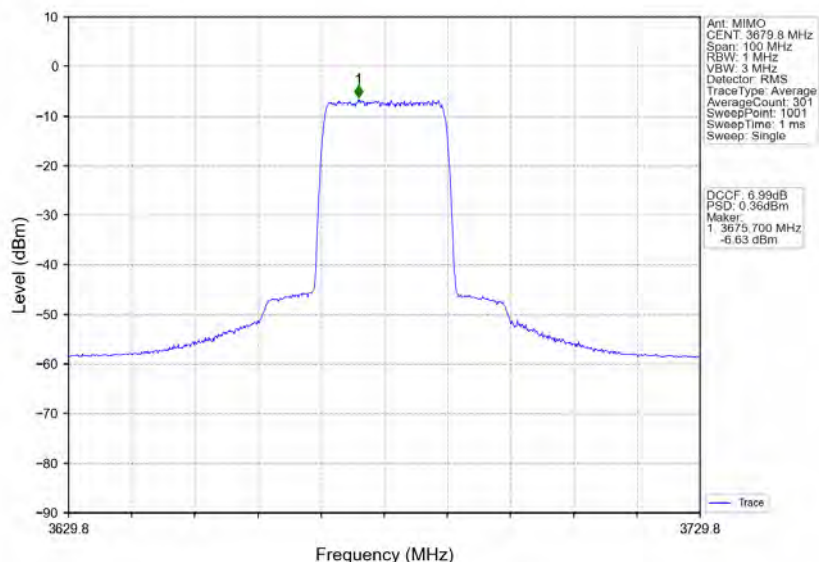
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_Full



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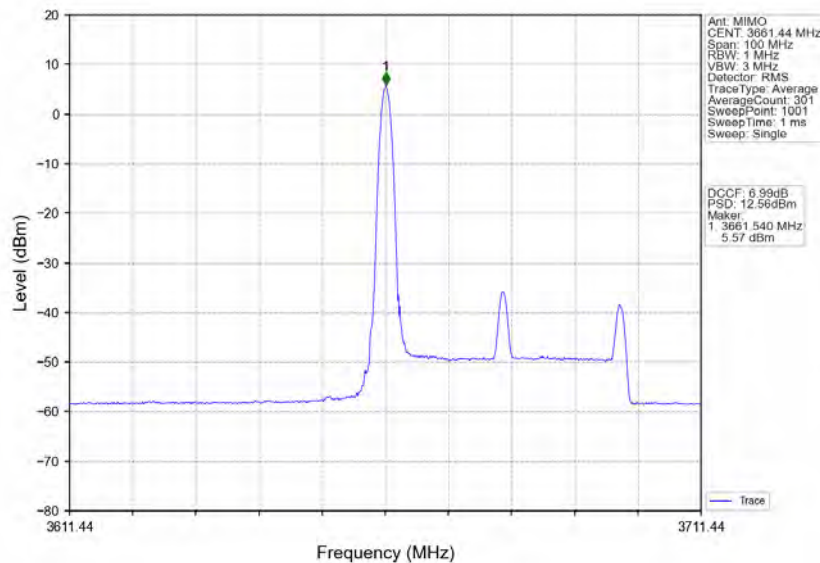
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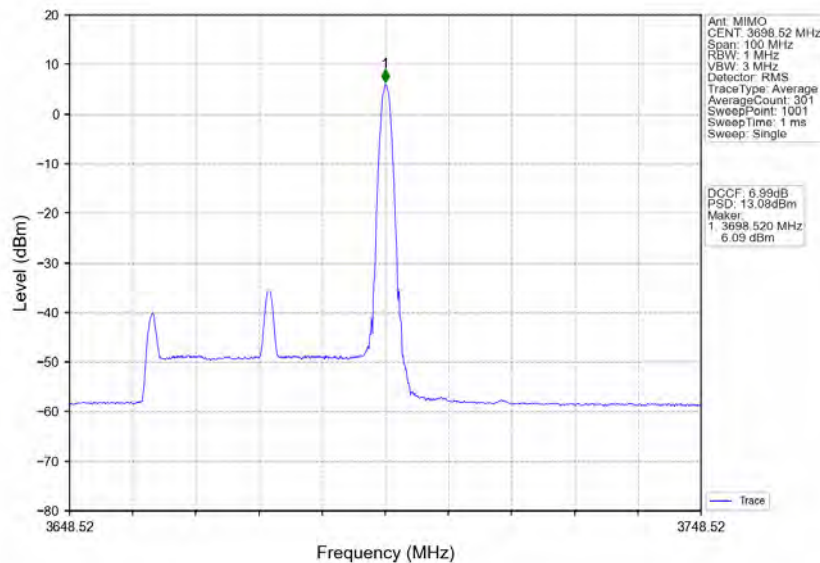
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_256_QAM_3679.98MHz_Inner_1RB_Right



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3. Frequency Stability

3.1 30k_MIMO_10MHz

3.1.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	12.80	0.0035	>=-2.5 & <=2.5	Pass
				HV	9.70	0.0027	>=-2.5 & <=2.5	Pass
			-30	NV	-7.50	-0.0021	>=-2.5 & <=2.5	Pass
			-20	NV	18.20	0.0050	>=-2.5 & <=2.5	Pass
			-10	NV	-14.30	-0.0039	>=-2.5 & <=2.5	Pass
			0	NV	11.40	0.0031	>=-2.5 & <=2.5	Pass
			10	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			30	NV	6.50	0.0018	>=-2.5 & <=2.5	Pass
			40	NV	-5.80	-0.0016	>=-2.5 & <=2.5	Pass
			50	NV	11.40	0.0031	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	0.20	0.0001	>=-2.5 & <=2.5	Pass
				HV	6.30	0.0017	>=-2.5 & <=2.5	Pass
			-30	NV	22.70	0.0063	>=-2.5 & <=2.5	Pass
			-20	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			-10	NV	9.10	0.0025	>=-2.5 & <=2.5	Pass
			0	NV	13.30	0.0037	>=-2.5 & <=2.5	Pass
			10	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			20	NV	10.90	0.0030	>=-2.5 & <=2.5	Pass
			30	NV	-4.00	-0.0011	>=-2.5 & <=2.5	Pass
			40	NV	7.50	0.0021	>=-2.5 & <=2.5	Pass
			50	NV	-8.50	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	14.90	0.0041	>=-2.5 & <=2.5	Pass
				HV	8.50	0.0023	>=-2.5 & <=2.5	Pass
			-30	NV	6.80	0.0019	>=-2.5 & <=2.5	Pass
			-20	NV	6.10	0.0017	>=-2.5 & <=2.5	Pass
			-10	NV	9.30	0.0026	>=-2.5 & <=2.5	Pass
			0	NV	7.90	0.0022	>=-2.5 & <=2.5	Pass
			10	NV	5.90	0.0016	>=-2.5 & <=2.5	Pass
			20	NV	12.00	0.0033	>=-2.5 & <=2.5	Pass
			30	NV	6.90	0.0019	>=-2.5 & <=2.5	Pass
			40	NV	4.70	0.0013	>=-2.5 & <=2.5	Pass
			50	NV	-6.70	-0.0018	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	8.50	0.0023	>=-2.5 & <=2.5	Pass
				HV	6.80	0.0019	>=-2.5 & <=2.5	Pass
			-30	NV	2.70	0.0007	>=-2.5 & <=2.5	Pass
			-20	NV	10.90	0.0030	>=-2.5 & <=2.5	Pass
			-10	NV	-11.00	-0.0030	>=-2.5 & <=2.5	Pass
			0	NV	3.70	0.0010	>=-2.5 & <=2.5	Pass
			10	NV	10.20	0.0028	>=-2.5 & <=2.5	Pass
			20	NV	2.60	0.0007	>=-2.5 & <=2.5	Pass
			30	NV	17.90	0.0049	>=-2.5 & <=2.5	Pass
			40	NV	0.80	0.0002	>=-2.5 & <=2.5	Pass
			50	NV	6.30	0.0017	>=-2.5 & <=2.5	Pass



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3.2 30k_MIMO_20MHz

3.2.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	10.80	0.0030	>=-2.5 & <=2.5	Pass
				HV	-1.60	-0.0004	>=-2.5 & <=2.5	Pass
			-30	NV	8.70	0.0024	>=-2.5 & <=2.5	Pass
			-20	NV	2.80	0.0008	>=-2.5 & <=2.5	Pass
			-10	NV	3.40	0.0009	>=-2.5 & <=2.5	Pass
			0	NV	-10.40	-0.0029	>=-2.5 & <=2.5	Pass
			10	NV	-9.50	-0.0026	>=-2.5 & <=2.5	Pass
			20	NV	-6.50	-0.0018	>=-2.5 & <=2.5	Pass
			30	NV	-8.60	-0.0024	>=-2.5 & <=2.5	Pass
			40	NV	10.60	0.0029	>=-2.5 & <=2.5	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-13.00	-0.0036	>=-2.5 & <=2.5	Pass
				HV	-8.90	-0.0025	>=-2.5 & <=2.5	Pass
			-30	NV	2.30	0.0006	>=-2.5 & <=2.5	Pass
			-20	NV	-7.30	-0.0020	>=-2.5 & <=2.5	Pass
			-10	NV	-4.20	-0.0012	>=-2.5 & <=2.5	Pass
			0	NV	-3.20	-0.0009	>=-2.5 & <=2.5	Pass
			10	NV	-5.60	-0.0015	>=-2.5 & <=2.5	Pass
			20	NV	-4.70	-0.0013	>=-2.5 & <=2.5	Pass
			30	NV	2.40	0.0007	>=-2.5 & <=2.5	Pass
			40	NV	-8.30	-0.0023	>=-2.5 & <=2.5	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-3.40	-0.0009	>=-2.5 & <=2.5	Pass
				HV	-11.70	-0.0032	>=-2.5 & <=2.5	Pass
			-30	NV	-4.40	-0.0012	>=-2.5 & <=2.5	Pass
			-20	NV	-11.80	-0.0033	>=-2.5 & <=2.5	Pass
			-10	NV	-3.70	-0.0010	>=-2.5 & <=2.5	Pass
			0	NV	-6.40	-0.0018	>=-2.5 & <=2.5	Pass
			10	NV	4.80	0.0013	>=-2.5 & <=2.5	Pass
			20	NV	11.70	0.0032	>=-2.5 & <=2.5	Pass
			30	NV	-2.20	-0.0006	>=-2.5 & <=2.5	Pass
			40	NV	-14.40	-0.0040	>=-2.5 & <=2.5	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	8.30	0.0023	>=-2.5 & <=2.5	Pass
				HV	-15.30	-0.0042	>=-2.5 & <=2.5	Pass
			-30	NV	-9.30	-0.0026	>=-2.5 & <=2.5	Pass
			-20	NV	-1.90	-0.0005	>=-2.5 & <=2.5	Pass
			-10	NV	-11.30	-0.0031	>=-2.5 & <=2.5	Pass
			0	NV	-14.50	-0.0040	>=-2.5 & <=2.5	Pass
			10	NV	1.10	0.0003	>=-2.5 & <=2.5	Pass
			20	NV	3.30	0.0009	>=-2.5 & <=2.5	Pass
			30	NV	-9.10	-0.0025	>=-2.5 & <=2.5	Pass
			40	NV	3.20	0.0009	>=-2.5 & <=2.5	Pass
			50	NV	10.50	0.0029	>=-2.5 & <=2.5	Pass



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