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Appendix B.17

LTE Band 48



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1. Effective (Isotropic) Radiated Power Output Data Test Result ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	23.72	17.6	23	PASS
Band48	5MHz	QPSK	55265	1RB#12	23.80	17.68	23	PASS
Band48	5MHz	QPSK	55265	1RB#24	23.67	17.55	23	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.85	16.73	23	PASS
Band48	5MHz	QPSK	55990	1RB#0	23.65	17.53	23	PASS
Band48	5MHz	QPSK	55990	1RB#12	23.81	17.69	23	PASS
Band48	5MHz	QPSK	55990	1RB#24	23.74	17.62	23	PASS
Band48	5MHz	QPSK	55990	25RB#0	22.85	16.73	23	PASS
Band48	5MHz	QPSK	56715	1RB#0	24.19	18.07	23	PASS
Band48	5MHz	QPSK	56715	1RB#12	24.15	18.03	23	PASS
Band48	5MHz	QPSK	56715	1RB#24	24.12	18	23	PASS
Band48	5MHz	QPSK	56715	25RB#0	23.21	17.09	23	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.90	16.78	23	PASS
Band48	5MHz	16QAM	55265	1RB#12	22.92	16.8	23	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.84	16.72	23	PASS
Band48	5MHz	16QAM	55265	25RB#0	21.84	15.72	23	PASS
Band48	5MHz	16QAM	55990	1RB#0	22.87	16.75	23	PASS
Band48	5MHz	16QAM	55990	1RB#12	22.96	16.84	23	PASS
Band48	5MHz	16QAM	55990	1RB#24	22.83	16.71	23	PASS
Band48	5MHz	16QAM	55990	25RB#0	21.82	15.7	23	PASS
Band48	5MHz	16QAM	56715	1RB#0	23.31	17.19	23	PASS
Band48	5MHz	16QAM	56715	1RB#12	23.26	17.14	23	PASS
Band48	5MHz	16QAM	56715	1RB#24	23.23	17.11	23	PASS
Band48	5MHz	16QAM	56715	25RB#0	22.19	16.07	23	PASS
Band48	5MHz	64QAM	55265	1RB#0	22.14	16.02	23	PASS



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Band48	5MHz	64QAM	55265	1RB#12	22.28	16.16	23	PASS
Band48	5MHz	64QAM	55265	1RB#24	21.96	15.84	23	PASS
Band48	5MHz	64QAM	55265	25RB#0	20.82	14.7	23	PASS
Band48	5MHz	64QAM	55990	1RB#0	22.03	15.91	23	PASS
Band48	5MHz	64QAM	55990	1RB#12	22.21	16.09	23	PASS
Band48	5MHz	64QAM	55990	1RB#24	22.11	15.99	23	PASS
Band48	5MHz	64QAM	55990	25RB#0	20.85	14.73	23	PASS
Band48	5MHz	64QAM	56715	1RB#0	22.44	16.32	23	PASS
Band48	5MHz	64QAM	56715	1RB#12	22.47	16.35	23	PASS
Band48	5MHz	64QAM	56715	1RB#24	22.52	16.4	23	PASS
Band48	5MHz	64QAM	56715	25RB#0	21.24	15.12	23	PASS
Band48	5MHz	256QAM	55265	1RB#0	18.90	12.78	23	PASS
Band48	5MHz	256QAM	55265	1RB#12	18.94	12.82	23	PASS
Band48	5MHz	256QAM	55265	1RB#24	18.81	12.69	23	PASS
Band48	5MHz	256QAM	55265	25RB#0	17.81	11.69	23	PASS
Band48	5MHz	256QAM	55990	1RB#0	18.74	12.62	23	PASS
Band48	5MHz	256QAM	55990	1RB#12	19.03	12.91	23	PASS
Band48	5MHz	256QAM	55990	1RB#24	18.91	12.79	23	PASS
Band48	5MHz	256QAM	55990	25RB#0	17.84	11.72	23	PASS
Band48	5MHz	256QAM	56715	1RB#0	19.24	13.12	23	PASS
Band48	5MHz	256QAM	56715	1RB#12	19.31	13.19	23	PASS
Band48	5MHz	256QAM	56715	1RB#24	19.36	13.24	23	PASS
Band48	5MHz	256QAM	56715	25RB#0	18.19	12.07	23	PASS
Band48	10MHz	QPSK	55290	1RB#0	23.60	17.48	23	PASS
Band48	10MHz	QPSK	55290	1RB#24	23.65	17.53	23	PASS
Band48	10MHz	QPSK	55290	1RB#49	23.60	17.48	23	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.77	16.65	23	PASS
Band48	10MHz	QPSK	55990	1RB#0	23.72	17.6	23	PASS
Band48	10MHz	QPSK	55990	1RB#24	23.61	17.49	23	PASS



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Band48	10MHz	QPSK	55990	1RB#49	23.67	17.55	23	PASS
Band48	10MHz	QPSK	55990	50RB#0	22.83	16.71	23	PASS
Band48	10MHz	QPSK	56690	1RB#0	24.13	18.01	23	PASS
Band48	10MHz	QPSK	56690	1RB#24	24.01	17.89	23	PASS
Band48	10MHz	QPSK	56690	1RB#49	23.99	17.87	23	PASS
Band48	10MHz	QPSK	56690	50RB#0	23.08	16.96	23	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.87	16.75	23	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.73	16.61	23	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.85	16.73	23	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.72	15.6	23	PASS
Band48	10MHz	16QAM	55990	1RB#0	22.71	16.59	23	PASS
Band48	10MHz	16QAM	55990	1RB#24	22.74	16.62	23	PASS
Band48	10MHz	16QAM	55990	1RB#49	22.90	16.78	23	PASS
Band48	10MHz	16QAM	55990	50RB#0	21.86	15.74	23	PASS
Band48	10MHz	16QAM	56690	1RB#0	23.10	16.98	23	PASS
Band48	10MHz	16QAM	56690	1RB#24	23.26	17.14	23	PASS
Band48	10MHz	16QAM	56690	1RB#49	23.25	17.13	23	PASS
Band48	10MHz	16QAM	56690	50RB#0	22.06	15.94	23	PASS
Band48	10MHz	64QAM	55290	1RB#0	21.89	15.77	23	PASS
Band48	10MHz	64QAM	55290	1RB#24	21.99	15.87	23	PASS
Band48	10MHz	64QAM	55290	1RB#49	22.08	15.96	23	PASS
Band48	10MHz	64QAM	55290	50RB#0	20.78	14.66	23	PASS
Band48	10MHz	64QAM	55990	1RB#0	22.05	15.93	23	PASS
Band48	10MHz	64QAM	55990	1RB#24	22.06	15.94	23	PASS
Band48	10MHz	64QAM	55990	1RB#49	21.94	15.82	23	PASS
Band48	10MHz	64QAM	55990	50RB#0	20.86	14.74	23	PASS
Band48	10MHz	64QAM	56690	1RB#0	22.25	16.13	23	PASS
Band48	10MHz	64QAM	56690	1RB#24	22.44	16.32	23	PASS
Band48	10MHz	64QAM	56690	1RB#49	22.40	16.28	23	PASS



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Band48	10MHz	64QAM	56690	50RB#0	21.09	14.97	23	PASS
Band48	10MHz	256QAM	55290	1RB#0	18.68	12.56	23	PASS
Band48	10MHz	256QAM	55290	1RB#24	18.86	12.74	23	PASS
Band48	10MHz	256QAM	55290	1RB#49	18.86	12.74	23	PASS
Band48	10MHz	256QAM	55290	50RB#0	17.73	11.61	23	PASS
Band48	10MHz	256QAM	55990	1RB#0	18.75	12.63	23	PASS
Band48	10MHz	256QAM	55990	1RB#24	18.85	12.73	23	PASS
Band48	10MHz	256QAM	55990	1RB#49	18.95	12.83	23	PASS
Band48	10MHz	256QAM	55990	50RB#0	17.87	11.75	23	PASS
Band48	10MHz	256QAM	56690	1RB#0	19.02	12.9	23	PASS
Band48	10MHz	256QAM	56690	1RB#24	19.29	13.17	23	PASS
Band48	10MHz	256QAM	56690	1RB#49	19.21	13.09	23	PASS
Band48	10MHz	256QAM	56690	50RB#0	18.06	11.94	23	PASS
Band48	15MHz	QPSK	55315	1RB#0	23.59	17.47	23	PASS
Band48	15MHz	QPSK	55315	1RB#38	23.55	17.43	23	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.64	17.52	23	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.71	16.59	23	PASS
Band48	15MHz	QPSK	55990	1RB#0	23.69	17.57	23	PASS
Band48	15MHz	QPSK	55990	1RB#38	23.59	17.47	23	PASS
Band48	15MHz	QPSK	55990	1RB#74	23.66	17.54	23	PASS
Band48	15MHz	QPSK	55990	75RB#0	22.70	16.58	23	PASS
Band48	15MHz	QPSK	56665	1RB#0	24.06	17.94	23	PASS
Band48	15MHz	QPSK	56665	1RB#38	23.91	17.79	23	PASS
Band48	15MHz	QPSK	56665	1RB#74	23.98	17.86	23	PASS
Band48	15MHz	QPSK	56665	75RB#0	22.99	16.87	23	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.62	16.5	23	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.74	16.62	23	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.71	16.59	23	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.72	15.6	23	PASS



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Band48	15MHz	16QAM	55990	1RB#38	22.82	16.7	23	PASS
Band48	15MHz	16QAM	55990	1RB#74	22.81	16.69	23	PASS
Band48	15MHz	16QAM	55990	75RB#0	21.72	15.6	23	PASS
Band48	15MHz	16QAM	56665	1RB#0	22.99	16.87	23	PASS
Band48	15MHz	16QAM	56665	1RB#38	23.13	17.01	23	PASS
Band48	15MHz	16QAM	56665	1RB#74	23.11	16.99	23	PASS
Band48	15MHz	16QAM	56665	75RB#0	22.00	15.88	23	PASS
Band48	15MHz	64QAM	55315	1RB#0	21.86	15.74	23	PASS
Band48	15MHz	64QAM	55315	1RB#38	22.05	15.93	23	PASS
Band48	15MHz	64QAM	55315	1RB#74	22.07	15.95	23	PASS
Band48	15MHz	64QAM	55315	75RB#0	20.71	14.59	23	PASS
Band48	15MHz	64QAM	55990	1RB#0	21.85	15.73	23	PASS
Band48	15MHz	64QAM	55990	1RB#38	22.06	15.94	23	PASS
Band48	15MHz	64QAM	55990	1RB#74	22.02	15.9	23	PASS
Band48	15MHz	64QAM	55990	75RB#0	20.74	14.62	23	PASS
Band48	15MHz	64QAM	56665	1RB#0	22.32	16.2	23	PASS
Band48	15MHz	64QAM	56665	1RB#38	22.35	16.23	23	PASS
Band48	15MHz	64QAM	56665	1RB#74	22.37	16.25	23	PASS
Band48	15MHz	64QAM	56665	75RB#0	21.00	14.88	23	PASS
Band48	15MHz	256QAM	55315	1RB#0	18.59	12.47	23	PASS
Band48	15MHz	256QAM	55315	1RB#38	18.79	12.67	23	PASS
Band48	15MHz	256QAM	55315	1RB#74	18.79	12.67	23	PASS
Band48	15MHz	256QAM	55315	75RB#0	17.71	11.59	23	PASS
Band48	15MHz	256QAM	55990	1RB#0	18.55	12.43	23	PASS
Band48	15MHz	256QAM	55990	1RB#38	18.95	12.83	23	PASS
Band48	15MHz	256QAM	55990	1RB#74	18.90	12.78	23	PASS
Band48	15MHz	256QAM	55990	75RB#0	17.70	11.58	23	PASS
Band48	15MHz	256QAM	56665	1RB#0	19.02	12.9	23	PASS



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Band48	15MHz	256QAM	56665	1RB#74	19.14	13.02	23	PASS
Band48	15MHz	256QAM	56665	75RB#0	17.96	11.84	23	PASS
Band48	20MHz	QPSK	55340	1RB#0	23.54	17.42	23	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.63	17.51	23	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.66	17.54	23	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.75	16.63	23	PASS
Band48	20MHz	QPSK	55990	1RB#0	23.76	17.64	23	PASS
Band48	20MHz	QPSK	55990	1RB#49	23.63	17.51	23	PASS
Band48	20MHz	QPSK	55990	1RB#99	23.71	17.59	23	PASS
Band48	20MHz	QPSK	55990	100RB#0	22.76	16.64	23	PASS
Band48	20MHz	QPSK	56640	1RB#0	24.13	18.01	23	PASS
Band48	20MHz	QPSK	56640	1RB#49	24.03	17.91	23	PASS
Band48	20MHz	QPSK	56640	1RB#99	24.04	17.92	23	PASS
Band48	20MHz	QPSK	56640	100RB#0	23.03	16.91	23	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.70	16.58	23	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.88	16.76	23	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.87	16.75	23	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.76	15.64	23	PASS
Band48	20MHz	16QAM	55990	1RB#0	22.74	16.62	23	PASS
Band48	20MHz	16QAM	55990	1RB#49	22.82	16.7	23	PASS
Band48	20MHz	16QAM	55990	1RB#99	22.89	16.77	23	PASS
Band48	20MHz	16QAM	55990	100RB#0	21.77	15.65	23	PASS
Band48	20MHz	16QAM	56640	1RB#0	22.99	16.87	23	PASS
Band48	20MHz	16QAM	56640	1RB#49	23.30	17.18	23	PASS
Band48	20MHz	16QAM	56640	1RB#99	23.20	17.08	23	PASS
Band48	20MHz	16QAM	56640	100RB#0	22.03	15.91	23	PASS
Band48	20MHz	64QAM	55340	1RB#0	22.04	15.92	23	PASS
Band48	20MHz	64QAM	55340	1RB#49	22.09	15.97	23	PASS



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Band48	20MHz	64QAM	55340	1RB#99	22.06	15.94	23	PASS
Band48	20MHz	64QAM	55340	100RB#0	20.75	14.63	23	PASS
Band48	20MHz	64QAM	55990	1RB#0	21.90	15.78	23	PASS
Band48	20MHz	64QAM	55990	1RB#49	22.08	15.96	23	PASS
Band48	20MHz	64QAM	55990	1RB#99	22.13	16.01	23	PASS
Band48	20MHz	64QAM	55990	100RB#0	20.75	14.63	23	PASS
Band48	20MHz	64QAM	56640	1RB#0	22.21	16.09	23	PASS
Band48	20MHz	64QAM	56640	1RB#49	22.50	16.38	23	PASS
Band48	20MHz	64QAM	56640	1RB#99	22.44	16.32	23	PASS
Band48	20MHz	64QAM	56640	100RB#0	21.03	14.91	23	PASS
Band48	20MHz	256QAM	55340	1RB#0	18.68	12.56	23	PASS
Band48	20MHz	256QAM	55340	1RB#49	18.84	12.72	23	PASS
Band48	20MHz	256QAM	55340	1RB#99	18.80	12.68	23	PASS
Band48	20MHz	256QAM	55340	100RB#0	17.73	11.61	23	PASS
Band48	20MHz	256QAM	55990	1RB#0	18.65	12.53	23	PASS
Band48	20MHz	256QAM	55990	1RB#49	18.94	12.82	23	PASS
Band48	20MHz	256QAM	55990	1RB#99	18.95	12.83	23	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.75	11.63	23	PASS
Band48	20MHz	256QAM	56640	1RB#0	19.10	12.98	23	PASS
Band48	20MHz	256QAM	56640	1RB#49	19.31	13.19	23	PASS
Band48	20MHz	256QAM	56640	1RB#99	19.29	13.17	23	PASS
Band48	20MHz	256QAM	56640	100RB#0	17.99	11.87	23	PASS



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2. Frequency Stability

2.1 B48_5MHz

2.1.1 Test Result

Band: 48 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3552.5	25	0	20	3.3	5.300	0.0015	/	Pass
					3.8	4.400	0.0012	/	Pass
					4.4	1.300	0.0004	/	Pass
				-30	3.8	-1.300	-0.0004	/	Pass
				-20	3.8	0.800	0.0002	/	Pass
				-10	3.8	-0.800	-0.0002	/	Pass
				0	3.8	-2.000	-0.0006	/	Pass
				10	3.8	4.300	0.0012	/	Pass
				30	3.8	2.300	0.0006	/	Pass
				40	3.8	0.600	0.0002	/	Pass
				50	3.8	-2.000	-0.0006	/	Pass
	3625	25	0	20	3.3	4.400	0.0012	/	Pass
					3.8	4.000	0.0011	/	Pass
					4.4	6.200	0.0017	/	Pass
				-30	3.8	2.600	0.0007	/	Pass
				-20	3.8	5.900	0.0016	/	Pass
				-10	3.8	2.800	0.0008	/	Pass
				0	3.8	2.300	0.0006	/	Pass
				10	3.8	2.200	0.0006	/	Pass
				30	3.8	2.400	0.0007	/	Pass
				40	3.8	3.400	0.0009	/	Pass
				50	3.8	3.900	0.0011	/	Pass
	3697.5	25	0	20	3.3	4.500	0.0012	/	Pass
					3.8	2.200	0.0006	/	Pass
					4.4	1.100	0.0003	/	Pass
				-30	3.8	-1.300	-0.0004	/	Pass
				-20	3.8	-2.000	-0.0005	/	Pass
				-10	3.8	1.000	0.0003	/	Pass
				0	3.8	-0.600	-0.0002	/	Pass
				10	3.8	1.500	0.0004	/	Pass
				30	3.8	0.500	0.0001	/	Pass
				40	3.8	-1.400	-0.0004	/	Pass
				50	3.8	3.500	0.0009	/	Pass
16QAM	3552.5	25	0	20	3.3	-0.800	-0.0002	/	Pass
					3.8	-0.800	-0.0002	/	Pass
					4.4	-0.300	-0.0001	/	Pass
				-30	3.8	0.900	0.0003	/	Pass
				-20	3.8	1.700	0.0005	/	Pass
				-10	3.8	0.500	0.0001	/	Pass
				0	3.8	-0.200	-0.0001	/	Pass



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64QAM	3625	25	0	10	3.8	0.000	0.0000	/	Pass
				30	3.8	4.400	0.0012	/	Pass
				40	3.8	2.800	0.0008	/	Pass
				50	3.8	0.100	0.0000	/	Pass
				20	3.3	1.900	0.0005	/	Pass
					3.8	4.200	0.0012	/	Pass
					4.4	2.500	0.0007	/	Pass
				-30	3.8	6.500	0.0018	/	Pass
				-20	3.8	6.200	0.0017	/	Pass
				-10	3.8	6.300	0.0017	/	Pass
				0	3.8	3.100	0.0009	/	Pass
				10	3.8	5.600	0.0015	/	Pass
				30	3.8	4.700	0.0013	/	Pass
				40	3.8	2.500	0.0007	/	Pass
				50	3.8	1.800	0.0005	/	Pass
	3697.5	25	0	20	3.3	3.500	0.0009	/	Pass
					3.8	2.600	0.0007	/	Pass
					4.4	2.400	0.0006	/	Pass
				-30	3.8	2.000	0.0005	/	Pass
				-20	3.8	0.100	0.0000	/	Pass
				-10	3.8	0.700	0.0002	/	Pass
				0	3.8	2.400	0.0006	/	Pass
				10	3.8	0.900	0.0002	/	Pass
				30	3.8	-1.100	-0.0003	/	Pass
				40	3.8	1.800	0.0005	/	Pass
				50	3.8	-0.200	-0.0001	/	Pass
	3552.5	25	0	20	3.3	-20.900	-0.0059	/	Pass
					3.8	23.700	0.0067	/	Pass
					4.4	21.500	0.0061	/	Pass
				-30	3.8	-6.800	-0.0019	/	Pass
				-20	3.8	3.000	0.0008	/	Pass
				-10	3.8	-17.900	-0.0050	/	Pass
				0	3.8	-34.200	-0.0096	/	Pass
				10	3.8	40.900	0.0115	/	Pass
				30	3.8	41.600	0.0117	/	Pass
				40	3.8	-49.700	-0.0140	/	Pass
				50	3.8	-16.800	-0.0047	/	Pass
	3625	25	0	20	3.3	-24.600	-0.0068	/	Pass
					3.8	-0.600	-0.0002	/	Pass
					4.4	-20.300	-0.0056	/	Pass
				-30	3.8	36.400	0.0100	/	Pass
				-20	3.8	5.500	0.0015	/	Pass
				-10	3.8	-30.300	-0.0084	/	Pass
				0	3.8	-12.400	-0.0034	/	Pass
				10	3.8	18.300	0.0050	/	Pass
				30	3.8	-3.400	-0.0009	/	Pass
				40	3.8	-43.800	-0.0121	/	Pass
				50	3.8	17.900	0.0049	/	Pass
	3697.5	25	0	20	3.3	38.400	0.0104	/	Pass



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						3.8	-25.200	-0.0068	/	Pass
						4.4	-5.100	-0.0014	/	Pass
					-30	3.8	0.100	0.0000	/	Pass
					-20	3.8	-4.800	-0.0013	/	Pass
					-10	3.8	-4.300	-0.0012	/	Pass
					0	3.8	0.700	0.0002	/	Pass
					10	3.8	7.800	0.0021	/	Pass
					30	3.8	-24.800	-0.0067	/	Pass
					40	3.8	19.500	0.0053	/	Pass
					50	3.8	14.000	0.0038	/	Pass
256QAM	3552.5	25	0	20		3.3	1.700	0.0005	/	Pass
						3.8	1.600	0.0005	/	Pass
						4.4	5.100	0.0014	/	Pass
					-30	3.8	-0.300	-0.0001	/	Pass
					-20	3.8	-0.900	-0.0003	/	Pass
					-10	3.8	1.200	0.0003	/	Pass
					0	3.8	4.200	0.0012	/	Pass
					10	3.8	1.000	0.0003	/	Pass
					30	3.8	5.400	0.0015	/	Pass
					40	3.8	3.700	0.0010	/	Pass
					50	3.8	3.500	0.0010	/	Pass
				3625	25	0	20		3.3	4.200
		3.8	3.700					0.0010	/	Pass
		4.4	3.800					0.0010	/	Pass
		-30	3.8				3.700	0.0010	/	Pass
		-20	3.8				5.300	0.0015	/	Pass
		-10	3.8				0.600	0.0002	/	Pass
		0	3.8				1.100	0.0003	/	Pass
		10	3.8				3.100	0.0009	/	Pass
		30	3.8				5.500	0.0015	/	Pass
		40	3.8				3.300	0.0009	/	Pass
		50	3.8				5.300	0.0015	/	Pass
	3697.5	25	0				20		3.3	2.000
					3.8	0.300		0.0001	/	Pass
					4.4	1.700		0.0005	/	Pass
					-30	3.8	1.000	0.0003	/	Pass
					-20	3.8	-2.200	-0.0006	/	Pass
					-10	3.8	2.400	0.0006	/	Pass
					0	3.8	-2.000	-0.0005	/	Pass
					10	3.8	1.200	0.0003	/	Pass
					30	3.8	-0.100	0.0000	/	Pass
					40	3.8	1.600	0.0004	/	Pass
		50	3.8	2.100	0.0006	/	Pass			

2.2 B48_10MHz

2.2.1 Test Result



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Band: 48 / Bandwidth: 10MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	3555	50	0	20	3.3	0.800	0.0002	/	Pass				
					3.8	-1.000	-0.0003	/	Pass				
					4.4	0.800	0.0002	/	Pass				
				-30	3.8	5.700	0.0016	/	Pass				
				-20	3.8	1.600	0.0005	/	Pass				
				-10	3.8	3.200	0.0009	/	Pass				
				0	3.8	3.500	0.0010	/	Pass				
				10	3.8	0.200	0.0001	/	Pass				
				30	3.8	-0.500	-0.0001	/	Pass				
				40	3.8	0.700	0.0002	/	Pass				
				50	3.8	2.700	0.0008	/	Pass				
				3625	50	0	20	3.3	0.600	0.0002	/	Pass	
	3.8	0.000	0.0000					/	Pass				
	4.4	-0.100	0.0000					/	Pass				
	-30	3.8	1.700				0.0005	/	Pass				
	-20	3.8	2.500				0.0007	/	Pass				
	-10	3.8	2.200				0.0006	/	Pass				
	0	3.8	-0.100				0.0000	/	Pass				
	10	3.8	1.800				0.0005	/	Pass				
	30	3.8	4.000				0.0011	/	Pass				
	40	3.8	2.600				0.0007	/	Pass				
	50	3.8	1.300				0.0004	/	Pass				
	3695	50	0				20	3.3	-0.100	0.0000	/	Pass	
				3.8	0.000	0.0000		/	Pass				
				4.4	-0.300	-0.0001		/	Pass				
				-30	3.8	1.300	0.0004	/	Pass				
				-20	3.8	-0.300	-0.0001	/	Pass				
				-10	3.8	-3.000	-0.0008	/	Pass				
				0	3.8	-0.900	-0.0002	/	Pass				
				10	3.8	1.500	0.0004	/	Pass				
				30	3.8	-2.600	-0.0007	/	Pass				
				40	3.8	-1.900	-0.0005	/	Pass				
				50	3.8	-0.300	-0.0001	/	Pass				
				16QAM	3555	50	0	20	3.3	0.600	0.0002	/	Pass
									3.8	1.600	0.0005	/	Pass
	4.4	3.200	0.0009						/	Pass			
	-30	3.8	3.900					0.0011	/	Pass			
	-20	3.8	-0.300					-0.0001	/	Pass			
	-10	3.8	2.700					0.0008	/	Pass			
	0	3.8	0.000					0.0000	/	Pass			
	10	3.8	1.100					0.0003	/	Pass			
	30	3.8	0.600					0.0002	/	Pass			
	40	3.8	0.700					0.0002	/	Pass			
	50	3.8	-3.700					-0.0010	/	Pass			
	3625	50	0					20	3.3	2.800	0.0008	/	Pass
					3.8	2.800	0.0008		/	Pass			



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					4.4	3.200	0.0009	/	Pass
				-30	3.8	2.100	0.0006	/	Pass
				-20	3.8	5.400	0.0015	/	Pass
				-10	3.8	6.600	0.0018	/	Pass
				0	3.8	-0.800	-0.0002	/	Pass
				10	3.8	5.000	0.0014	/	Pass
				30	3.8	1.400	0.0004	/	Pass
				40	3.8	-0.100	0.0000	/	Pass
				50	3.8	2.700	0.0007	/	Pass
	3695	50	0	20	3.3	-4.400	-0.0012	/	Pass
					3.8	1.100	0.0003	/	Pass
					4.4	2.000	0.0005	/	Pass
				-30	3.8	-2.100	-0.0006	/	Pass
				-20	3.8	-3.100	-0.0008	/	Pass
				-10	3.8	-2.200	-0.0006	/	Pass
				0	3.8	-3.200	-0.0009	/	Pass
				10	3.8	-0.500	-0.0001	/	Pass
				30	3.8	0.300	0.0001	/	Pass
				40	3.8	-0.600	-0.0002	/	Pass
64QAM	3555	50	0	20	3.3	21.100	0.0059	/	Pass
					3.8	-14.400	-0.0041	/	Pass
					4.4	20.500	0.0058	/	Pass
				-30	3.8	10.900	0.0031	/	Pass
				-20	3.8	7.600	0.0021	/	Pass
				-10	3.8	11.700	0.0033	/	Pass
				0	3.8	10.900	0.0031	/	Pass
				10	3.8	4.000	0.0011	/	Pass
				30	3.8	13.200	0.0037	/	Pass
				40	3.8	-13.800	-0.0039	/	Pass
	3625	50	0	20	3.3	3.700	0.0010	/	Pass
					3.8	2.700	0.0007	/	Pass
					4.4	18.800	0.0052	/	Pass
				-30	3.8	12.900	0.0036	/	Pass
				-20	3.8	6.200	0.0017	/	Pass
				-10	3.8	11.500	0.0032	/	Pass
				0	3.8	15.300	0.0042	/	Pass
				10	3.8	14.000	0.0039	/	Pass
				30	3.8	-22.900	-0.0063	/	Pass
				40	3.8	-7.700	-0.0021	/	Pass
	3695	50	0	20	3.3	9.900	0.0027	/	Pass
					3.8	-15.600	-0.0042	/	Pass
					4.4	-2.500	-0.0007	/	Pass
				-30	3.8	-2.600	-0.0007	/	Pass
				-20	3.8	-4.100	-0.0011	/	Pass
				-10	3.8	-12.000	-0.0032	/	Pass
				0	3.8	6.500	0.0018	/	Pass



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				10	3.8	3.100	0.0008	/	Pass
				30	3.8	11.200	0.0030	/	Pass
				40	3.8	-25.700	-0.0070	/	Pass
				50	3.8	-6.300	-0.0017	/	Pass
256QAM	3555	50	0	20	3.3	3.000	0.0008	/	Pass
					3.8	2.600	0.0007	/	Pass
					4.4	-0.900	-0.0003	/	Pass
				-30	3.8	0.200	0.0001	/	Pass
				-20	3.8	1.700	0.0005	/	Pass
				-10	3.8	-0.900	-0.0003	/	Pass
				0	3.8	2.700	0.0008	/	Pass
				10	3.8	0.700	0.0002	/	Pass
				30	3.8	2.100	0.0006	/	Pass
				40	3.8	1.000	0.0003	/	Pass
				50	3.8	1.200	0.0003	/	Pass
	3625	50	0	20	3.3	5.900	0.0016	/	Pass
					3.8	4.500	0.0012	/	Pass
					4.4	3.500	0.0010	/	Pass
				-30	3.8	2.800	0.0008	/	Pass
				-20	3.8	2.900	0.0008	/	Pass
				-10	3.8	3.200	0.0009	/	Pass
				0	3.8	2.000	0.0006	/	Pass
				10	3.8	0.600	0.0002	/	Pass
				30	3.8	3.900	0.0011	/	Pass
				40	3.8	4.800	0.0013	/	Pass
				50	3.8	4.000	0.0011	/	Pass
	3695	50	0	20	3.3	-2.400	-0.0006	/	Pass
					3.8	1.300	0.0004	/	Pass
					4.4	0.700	0.0002	/	Pass
				-30	3.8	2.100	0.0006	/	Pass
				-20	3.8	1.200	0.0003	/	Pass
				-10	3.8	-2.700	-0.0007	/	Pass
				0	3.8	-0.500	-0.0001	/	Pass
				10	3.8	-0.900	-0.0002	/	Pass
				30	3.8	-0.700	-0.0002	/	Pass
				40	3.8	2.500	0.0007	/	Pass
				50	3.8	-2.000	-0.0005	/	Pass

2.3 B48_15MHz

2.3.1 Test Result

Band: 48 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3557.5	75	0	20	3.3	3.000	0.0008	/	Pass
					3.8	2.600	0.0007	/	Pass



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16QAM	3625	75	0		4.4	3.700	0.0010	/	Pass
				-30	3.8	3.300	0.0009	/	Pass
				-20	3.8	0.600	0.0002	/	Pass
				-10	3.8	2.600	0.0007	/	Pass
				0	3.8	1.800	0.0005	/	Pass
				10	3.8	2.800	0.0008	/	Pass
				30	3.8	2.000	0.0006	/	Pass
				40	3.8	1.900	0.0005	/	Pass
				50	3.8	0.000	0.0000	/	Pass
				20	3.3	4.200	0.0012	/	Pass
					3.8	6.000	0.0017	/	Pass
					4.4	-0.800	-0.0002	/	Pass
				-30	3.8	1.800	0.0005	/	Pass
				-20	3.8	0.600	0.0002	/	Pass
				-10	3.8	2.900	0.0008	/	Pass
				0	3.8	0.500	0.0001	/	Pass
				10	3.8	-1.100	-0.0003	/	Pass
				30	3.8	5.700	0.0016	/	Pass
				40	3.8	0.000	0.0000	/	Pass
				50	3.8	-0.400	-0.0001	/	Pass
	3692.5	75	0	20	3.3	1.800	0.0005	/	Pass
					3.8	0.600	0.0002	/	Pass
					4.4	2.900	0.0008	/	Pass
				-30	3.8	-0.800	-0.0002	/	Pass
				-20	3.8	2.700	0.0007	/	Pass
				-10	3.8	3.300	0.0009	/	Pass
				0	3.8	3.300	0.0009	/	Pass
				10	3.8	4.000	0.0011	/	Pass
				30	3.8	0.200	0.0001	/	Pass
				40	3.8	0.300	0.0001	/	Pass
				50	3.8	0.800	0.0002	/	Pass
	3557.5	75	0	20	3.3	3.500	0.0010	/	Pass
					3.8	0.400	0.0001	/	Pass
					4.4	4.900	0.0014	/	Pass
				-30	3.8	5.000	0.0014	/	Pass
				-20	3.8	0.300	0.0001	/	Pass
				-10	3.8	0.200	0.0001	/	Pass
				0	3.8	-0.300	-0.0001	/	Pass
				10	3.8	2.600	0.0007	/	Pass
				30	3.8	1.700	0.0005	/	Pass
				40	3.8	4.600	0.0013	/	Pass
				50	3.8	-0.400	-0.0001	/	Pass
	3625	75	0	20	3.3	2.800	0.0008	/	Pass
					3.8	2.500	0.0007	/	Pass
					4.4	1.200	0.0003	/	Pass
				-30	3.8	5.600	0.0015	/	Pass
				-20	3.8	5.200	0.0014	/	Pass
				-10	3.8	2.900	0.0008	/	Pass
				0	3.8	0.600	0.0002	/	Pass



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64QAM	3692.5	75	0	10	3.8	2.400	0.0007	/	Pass
				30	3.8	2.400	0.0007	/	Pass
				40	3.8	2.200	0.0006	/	Pass
				50	3.8	1.500	0.0004	/	Pass
				20	3.3	-1.300	-0.0004	/	Pass
					3.8	1.900	0.0005	/	Pass
					4.4	-0.700	-0.0002	/	Pass
				-30	3.8	0.100	0.0000	/	Pass
				-20	3.8	-2.200	-0.0006	/	Pass
				-10	3.8	0.900	0.0002	/	Pass
				0	3.8	-1.300	-0.0004	/	Pass
				10	3.8	2.000	0.0005	/	Pass
				30	3.8	2.000	0.0005	/	Pass
				40	3.8	4.100	0.0011	/	Pass
				50	3.8	3.800	0.0010	/	Pass
64QAM	3557.5	75	0	20	3.3	2.500	0.0007	/	Pass
					3.8	-13.400	-0.0038	/	Pass
					4.4	11.400	0.0032	/	Pass
				-30	3.8	0.400	0.0001	/	Pass
				-20	3.8	4.600	0.0013	/	Pass
				-10	3.8	-8.300	-0.0023	/	Pass
				0	3.8	-0.400	-0.0001	/	Pass
				10	3.8	-19.700	-0.0055	/	Pass
				30	3.8	1.700	0.0005	/	Pass
				40	3.8	6.800	0.0019	/	Pass
				50	3.8	-0.300	-0.0001	/	Pass
	3625	75	0	20	3.3	-11.400	-0.0031	/	Pass
					3.8	4.200	0.0012	/	Pass
					4.4	0.400	0.0001	/	Pass
				-30	3.8	-9.100	-0.0025	/	Pass
				-20	3.8	4.200	0.0012	/	Pass
				-10	3.8	11.800	0.0033	/	Pass
				0	3.8	8.400	0.0023	/	Pass
				10	3.8	-0.800	-0.0002	/	Pass
				30	3.8	3.200	0.0009	/	Pass
				40	3.8	-2.400	-0.0007	/	Pass
				50	3.8	14.100	0.0039	/	Pass
	3692.5	75	0	20	3.3	-4.900	-0.0013	/	Pass
					3.8	1.800	0.0005	/	Pass
					4.4	19.900	0.0054	/	Pass
				-30	3.8	0.400	0.0001	/	Pass
				-20	3.8	-5.500	-0.0015	/	Pass
				-10	3.8	5.600	0.0015	/	Pass
				0	3.8	2.900	0.0008	/	Pass
				10	3.8	1.400	0.0004	/	Pass
				30	3.8	10.800	0.0029	/	Pass
				40	3.8	15.900	0.0043	/	Pass
				50	3.8	11.400	0.0031	/	Pass
256QAM	3557.5	75	0	20	3.3	-5.246	-0.0015	/	Pass



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						3.8	-0.667	-0.0002	/	Pass	
						4.4	0.900	0.0003	/	Pass	
					-30	3.8	0.000	0.0000	/	Pass	
					-20	3.8	-1.800	-0.0005	/	Pass	
					-10	3.8	1.800	0.0005	/	Pass	
					0	3.8	2.700	0.0008	/	Pass	
					10	3.8	2.700	0.0008	/	Pass	
					30	3.8	1.000	0.0003	/	Pass	
					40	3.8	0.400	0.0001	/	Pass	
					50	3.8	1.800	0.0005	/	Pass	
	3625	75	0			20	3.3	-9.099	-0.0025	/	Pass
							3.8	-2.369	-0.0007	/	Pass
							4.4	3.200	0.0009	/	Pass
						-30	3.8	0.200	0.0001	/	Pass
						-20	3.8	3.400	0.0009	/	Pass
						-10	3.8	3.600	0.0010	/	Pass
						0	3.8	2.400	0.0007	/	Pass
						10	3.8	2.300	0.0006	/	Pass
						30	3.8	-0.400	-0.0001	/	Pass
						40	3.8	-0.200	-0.0001	/	Pass
	50	3.8	0.700	0.0002	/	Pass					
	3692.5	75	0			20	3.3	-5.220	-0.0014	/	Pass
							3.8	2.483	0.0007	/	Pass
							4.4	-0.300	-0.0001	/	Pass
						-30	3.8	-3.000	-0.0008	/	Pass
						-20	3.8	1.400	0.0004	/	Pass
						-10	3.8	0.400	0.0001	/	Pass
						0	3.8	-0.500	-0.0001	/	Pass
						10	3.8	-1.100	-0.0003	/	Pass
						30	3.8	2.600	0.0007	/	Pass
						40	3.8	0.900	0.0002	/	Pass
						50	3.8	-0.600	-0.0002	/	Pass

2.4 B48_20MHz

2.4.1 Test Result

Band: 48 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	3560	100	0	20	3.3	1.400	0.0004	/	Pass
					3.8	0.000	0.0000	/	Pass
					4.4	1.000	0.0003	/	Pass
				-30	3.8	-5.200	-0.0015	/	Pass
				-20	3.8	1.300	0.0004	/	Pass
				-10	3.8	3.100	0.0009	/	Pass
				0	3.8	-1.200	-0.0003	/	Pass



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16QAM	3625	100	0	10	3.8	-1.500	-0.0004	/	Pass
				30	3.8	-3.800	-0.0011	/	Pass
				40	3.8	-3.100	-0.0009	/	Pass
				50	3.8	-0.400	-0.0001	/	Pass
				20	3.3	3.800	0.0010	/	Pass
					3.8	1.700	0.0005	/	Pass
					4.4	2.800	0.0008	/	Pass
				-30	3.8	1.400	0.0004	/	Pass
				-20	3.8	1.200	0.0003	/	Pass
				-10	3.8	3.100	0.0009	/	Pass
				0	3.8	0.700	0.0002	/	Pass
				10	3.8	1.500	0.0004	/	Pass
				30	3.8	1.500	0.0004	/	Pass
				40	3.8	0.400	0.0001	/	Pass
				50	3.8	2.500	0.0007	/	Pass
	3690	100	0	20	3.3	2.000	0.0005	/	Pass
					3.8	-2.300	-0.0006	/	Pass
					4.4	-0.200	-0.0001	/	Pass
				-30	3.8	4.500	0.0012	/	Pass
				-20	3.8	2.300	0.0006	/	Pass
				-10	3.8	3.300	0.0009	/	Pass
				0	3.8	1.000	0.0003	/	Pass
				10	3.8	-1.000	-0.0003	/	Pass
				30	3.8	-0.300	-0.0001	/	Pass
				40	3.8	-2.200	-0.0006	/	Pass
				50	3.8	-1.400	-0.0004	/	Pass
	3560	100	0	20	3.3	-2.800	-0.0008	/	Pass
					3.8	0.600	0.0002	/	Pass
					4.4	-1.200	-0.0003	/	Pass
				-30	3.8	-0.200	-0.0001	/	Pass
				-20	3.8	-0.700	-0.0002	/	Pass
				-10	3.8	-0.400	-0.0001	/	Pass
				0	3.8	1.100	0.0003	/	Pass
				10	3.8	-0.300	-0.0001	/	Pass
				30	3.8	-2.900	-0.0008	/	Pass
				40	3.8	-0.600	-0.0002	/	Pass
				50	3.8	1.600	0.0004	/	Pass
	3625	100	0	20	3.3	2.200	0.0006	/	Pass
					3.8	-0.100	0.0000	/	Pass
					4.4	5.100	0.0014	/	Pass
				-30	3.8	3.000	0.0008	/	Pass
				-20	3.8	4.200	0.0012	/	Pass
				-10	3.8	0.600	0.0002	/	Pass
				0	3.8	3.800	0.0010	/	Pass
				10	3.8	2.700	0.0007	/	Pass
				30	3.8	-1.700	-0.0005	/	Pass
				40	3.8	0.200	0.0001	/	Pass
				50	3.8	1.700	0.0005	/	Pass
	3690	100	0	20	3.3	0.400	0.0001	/	Pass



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					3.8	-0.500	-0.0001	/	Pass
					4.4	-1.900	-0.0005	/	Pass
				-30	3.8	-1.400	-0.0004	/	Pass
				-20	3.8	1.800	0.0005	/	Pass
				-10	3.8	-2.400	-0.0007	/	Pass
				0	3.8	1.800	0.0005	/	Pass
				10	3.8	-2.100	-0.0006	/	Pass
				30	3.8	-1.200	-0.0003	/	Pass
				40	3.8	-0.800	-0.0002	/	Pass
				50	3.8	1.600	0.0004	/	Pass
64QAM	3560	100	0	20	3.3	3.400	0.0010	/	Pass
					3.8	0.900	0.0003	/	Pass
					4.4	5.800	0.0016	/	Pass
				-30	3.8	-17.700	-0.0050	/	Pass
				-20	3.8	1.200	0.0003	/	Pass
				-10	3.8	-2.600	-0.0007	/	Pass
				0	3.8	-17.600	-0.0049	/	Pass
				10	3.8	0.200	0.0001	/	Pass
				30	3.8	2.400	0.0007	/	Pass
				40	3.8	-8.300	-0.0023	/	Pass
	50	3.8	-18.300	-0.0051	/	Pass			
	3625	100	0	20	3.3	-5.100	-0.0014	/	Pass
					3.8	12.700	0.0035	/	Pass
					4.4	2.100	0.0006	/	Pass
				-30	3.8	4.600	0.0013	/	Pass
				-20	3.8	7.300	0.0020	/	Pass
				-10	3.8	-0.500	-0.0001	/	Pass
				0	3.8	1.600	0.0004	/	Pass
				10	3.8	4.400	0.0012	/	Pass
				30	3.8	-1.700	-0.0005	/	Pass
				40	3.8	20.900	0.0058	/	Pass
	50	3.8	-10.000	-0.0028	/	Pass			
	3690	100	0	20	3.3	10.800	0.0029	/	Pass
					3.8	9.800	0.0027	/	Pass
					4.4	-2.500	-0.0007	/	Pass
				-30	3.8	-4.300	-0.0012	/	Pass
				-20	3.8	-6.400	-0.0017	/	Pass
				-10	3.8	-13.600	-0.0037	/	Pass
				0	3.8	-1.700	-0.0005	/	Pass
				10	3.8	1.200	0.0003	/	Pass
				30	3.8	5.100	0.0014	/	Pass
				40	3.8	-3.400	-0.0009	/	Pass
	50	3.8	0.700	0.0002	/	Pass			
256QAM	3560	100	0	20	3.3	-10.480	-0.0029	/	Pass
					3.8	-4.024	-0.0011	/	Pass
					4.4	-2.152	-0.0006	/	Pass
				-30	3.8	-0.300	-0.0001	/	Pass
				-20	3.8	0.200	0.0001	/	Pass
				-10	3.8	-0.100	0.0000	/	Pass



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				0	3.8	-1.400	-0.0004	/	Pass
				10	3.8	-3.800	-0.0011	/	Pass
				30	3.8	1.100	0.0003	/	Pass
				40	3.8	-1.600	-0.0004	/	Pass
				50	3.8	0.000	0.0000	/	Pass
	3625	100	0	20	3.3	-12.954	-0.0036	/	Pass
					3.8	-1.410	-0.0004	/	Pass
					4.4	1.900	0.0005	/	Pass
				-30	3.8	4.100	0.0011	/	Pass
				-20	3.8	3.000	0.0008	/	Pass
				-10	3.8	0.800	0.0002	/	Pass
				0	3.8	-1.400	-0.0004	/	Pass
				10	3.8	2.200	0.0006	/	Pass
				30	3.8	4.400	0.0012	/	Pass
				40	3.8	-0.900	-0.0002	/	Pass
				50	3.8	-1.300	-0.0004	/	Pass
	3690	100	0	20	3.3	-3.363	-0.0009	/	Pass
					3.8	6.010	0.0016	/	Pass
					4.4	3.100	0.0008	/	Pass
				-30	3.8	2.700	0.0007	/	Pass
				-20	3.8	-0.400	-0.0001	/	Pass
				-10	3.8	-0.100	0.0000	/	Pass
				0	3.8	-0.400	-0.0001	/	Pass
				10	3.8	2.900	0.0008	/	Pass
				30	3.8	0.900	0.0002	/	Pass
				40	3.8	-1.900	-0.0005	/	Pass
				50	3.8	-1.800	-0.0005	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band48_OBW

3.1.1 Test Result

Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	4.525	/	Pass
		3625	25	0	4.538	/	Pass
		3697.5	25	0	4.530	/	Pass
	16QAM	3552.5	25	0	4.530	/	Pass
		3625	25	0	4.524	/	Pass
		3697.5	25	0	4.529	/	Pass
	64QAM	3552.5	25	0	4.489	/	Pass
		3625	25	0	4.467	/	Pass
		3697.5	25	0	4.473	/	Pass
	256QAM	3552.5	25	0	4.530	/	Pass
		3625	25	0	4.518	/	Pass
		3697.5	25	0	4.531	/	Pass
10	QPSK	3555	50	0	9.004	/	Pass
		3625	50	0	9.012	/	Pass
		3695	50	0	9.010	/	Pass
	16QAM	3555	50	0	9.011	/	Pass
		3625	50	0	9.001	/	Pass
		3695	50	0	9.013	/	Pass
	64QAM	3555	50	0	8.998	/	Pass
		3625	50	0	9.013	/	Pass
		3695	50	0	8.999	/	Pass
	256QAM	3555	50	0	8.994	/	Pass
		3625	50	0	9.000	/	Pass
		3695	50	0	9.015	/	Pass
15	QPSK	3557.5	75	0	13.501	/	Pass
		3625	75	0	13.512	/	Pass
		3692.5	75	0	13.477	/	Pass
	16QAM	3557.5	75	0	13.511	/	Pass
		3625	75	0	13.479	/	Pass
		3692.5	75	0	13.496	/	Pass
	64QAM	3557.5	75	0	13.464	/	Pass
		3625	75	0	13.496	/	Pass
		3692.5	75	0	13.490	/	Pass
	256QAM	3557.5	75	0	13.463	/	Pass
		3625	75	0	13.467	/	Pass
		3692.5	75	0	13.572	/	Pass
20	QPSK	3560	100	0	17.942	/	Pass
		3625	100	0	17.985	/	Pass
		3690	100	0	18.003	/	Pass
	16QAM	3560	100	0	18.047	/	Pass



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		3625	100	0	18.053	/	Pass
		3690	100	0	18.023	/	Pass
	64QAM	3560	100	0	17.987	/	Pass
		3625	100	0	17.939	/	Pass
		3690	100	0	17.982	/	Pass
	256QAM	3560	100	0	17.954	/	Pass
		3625	100	0	18.038	/	Pass
		3690	100	0	17.978	/	Pass



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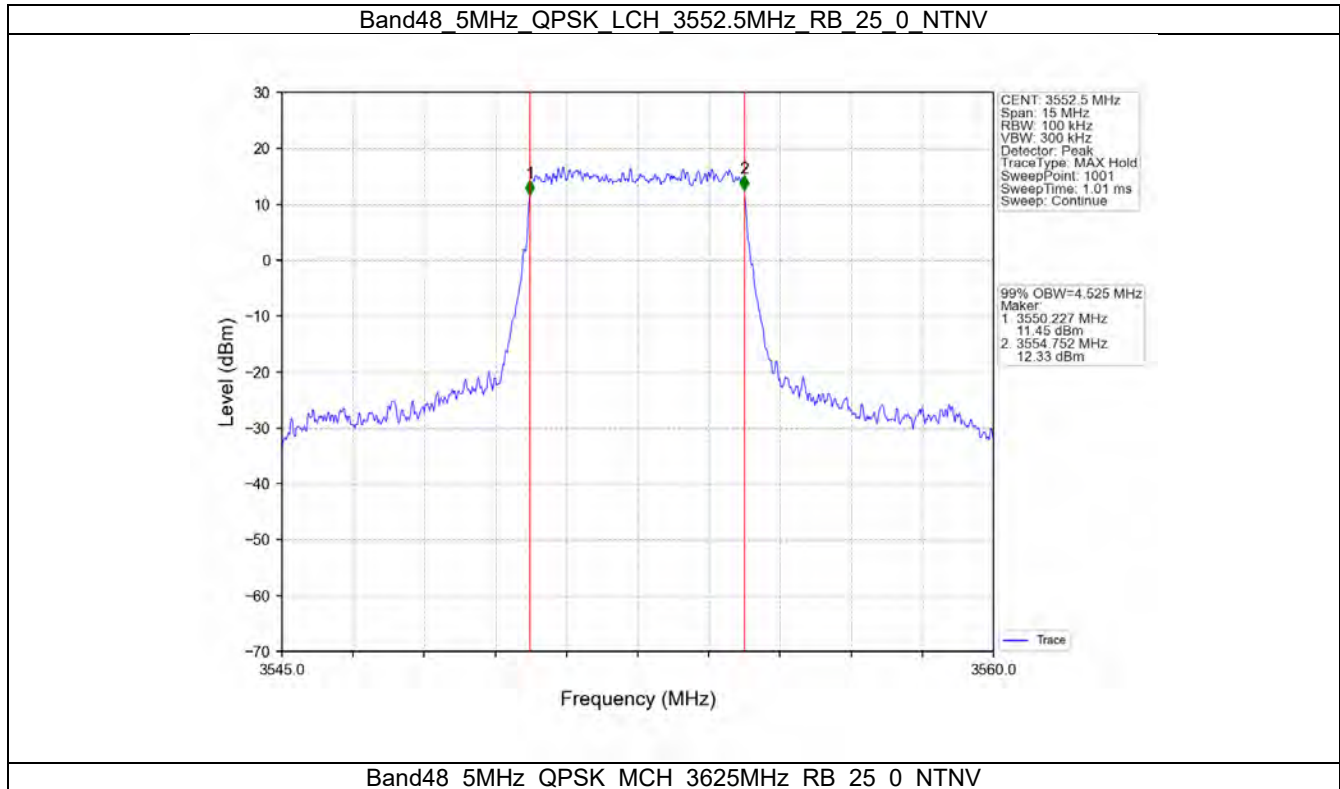
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3.1.2 Test Graph



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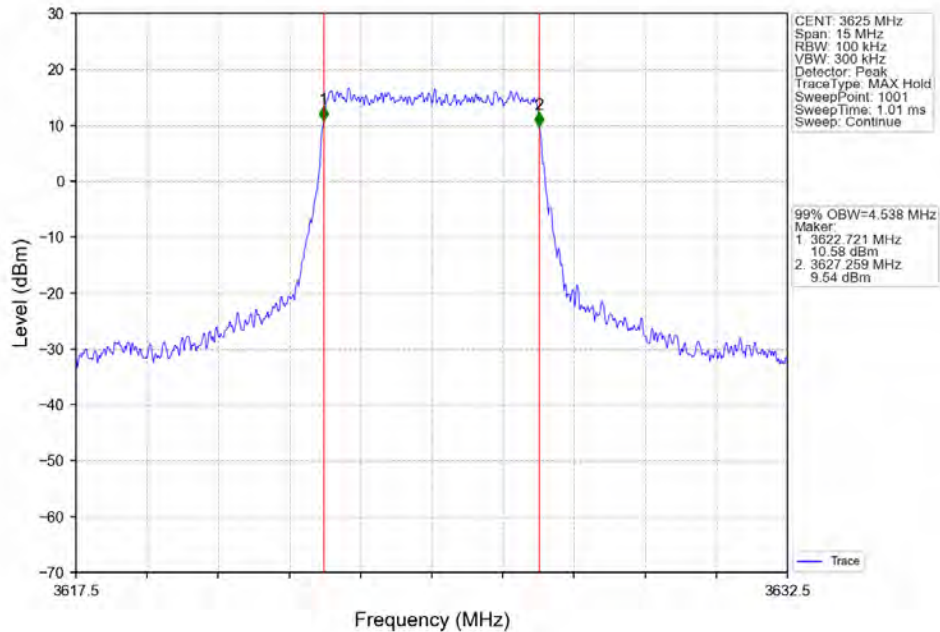
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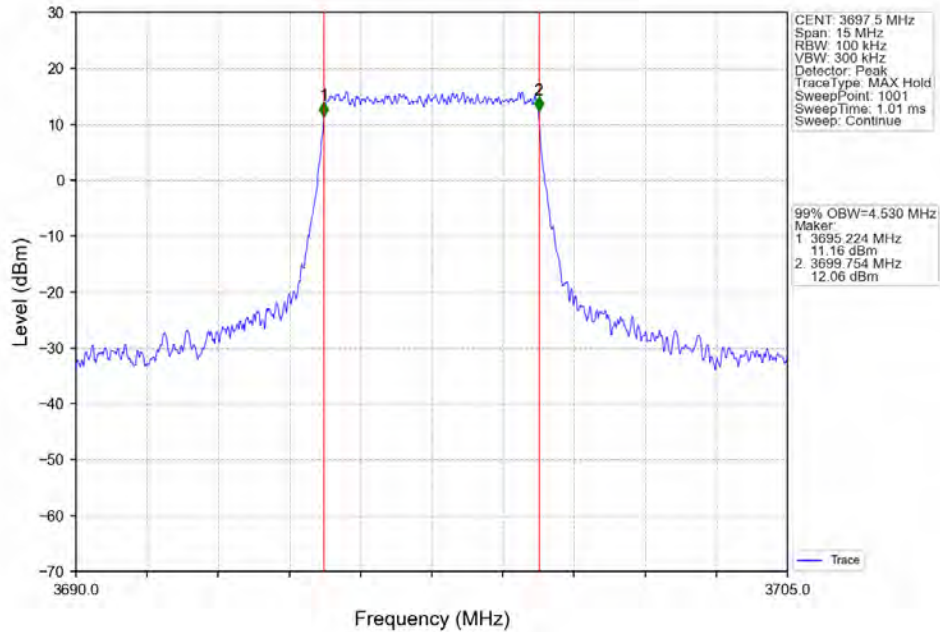
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV



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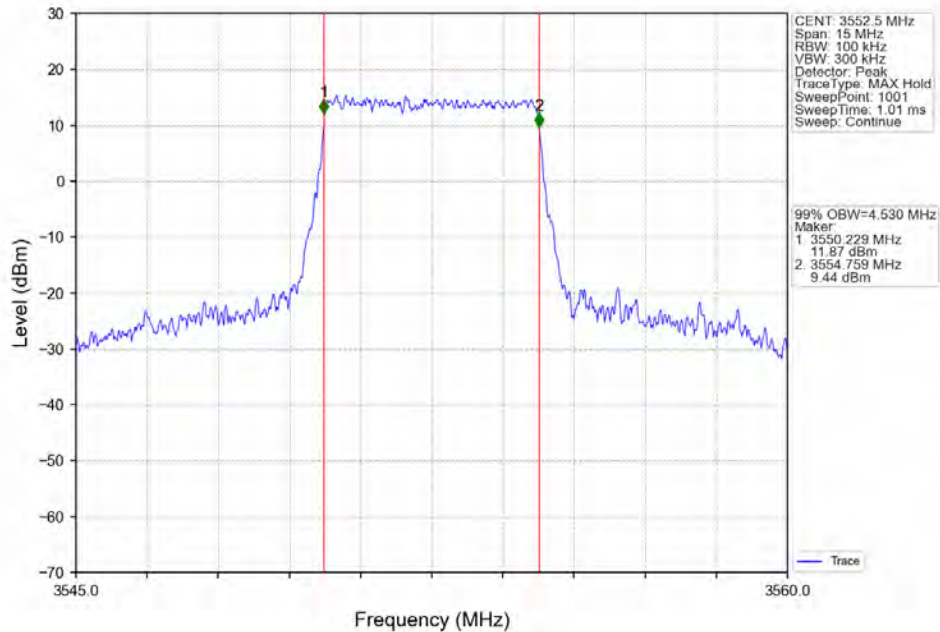
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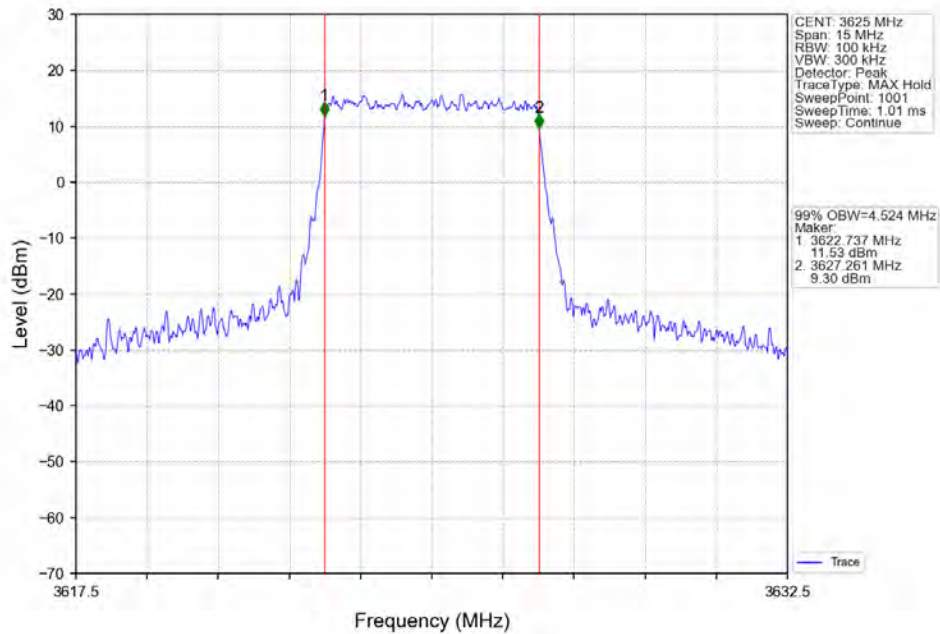
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV



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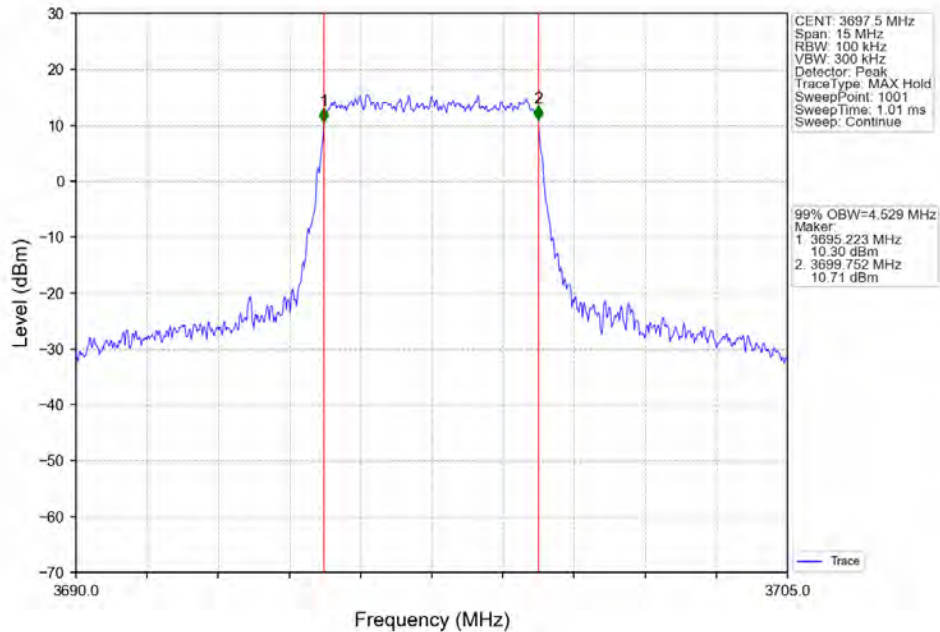
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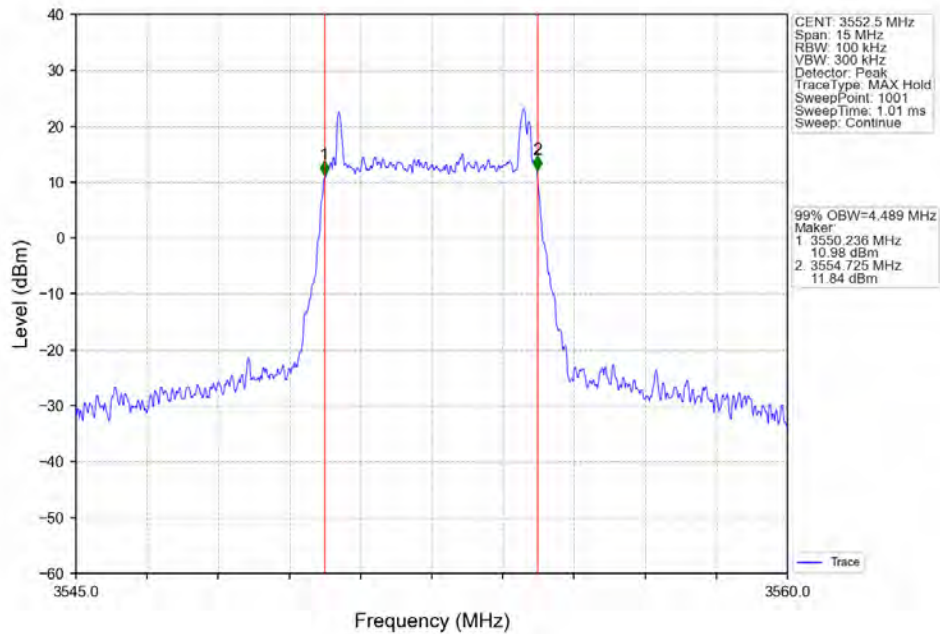
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Band48_5MHz_64QAM_MCH_3625MHz_RB_25_0_NTNV



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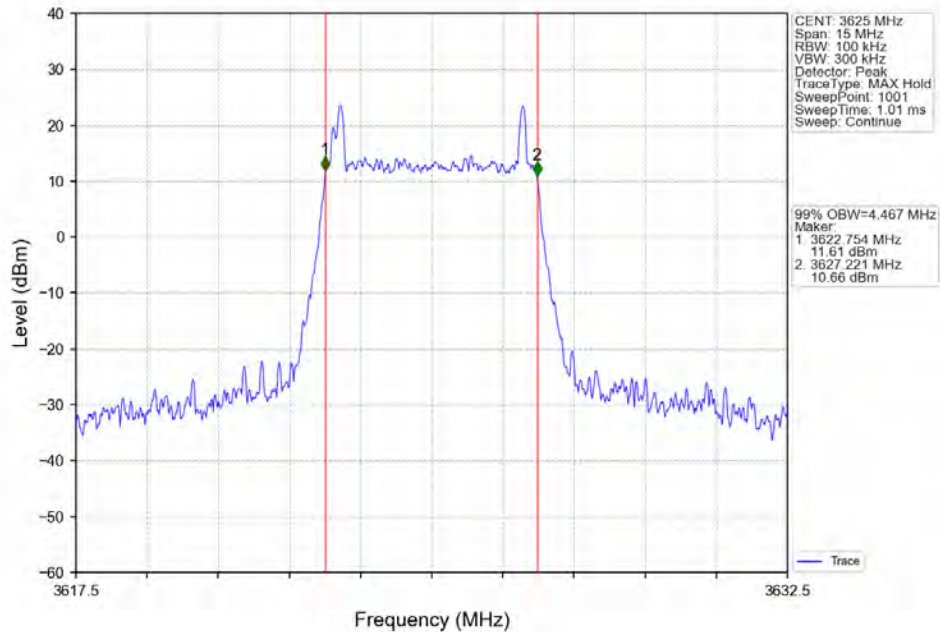
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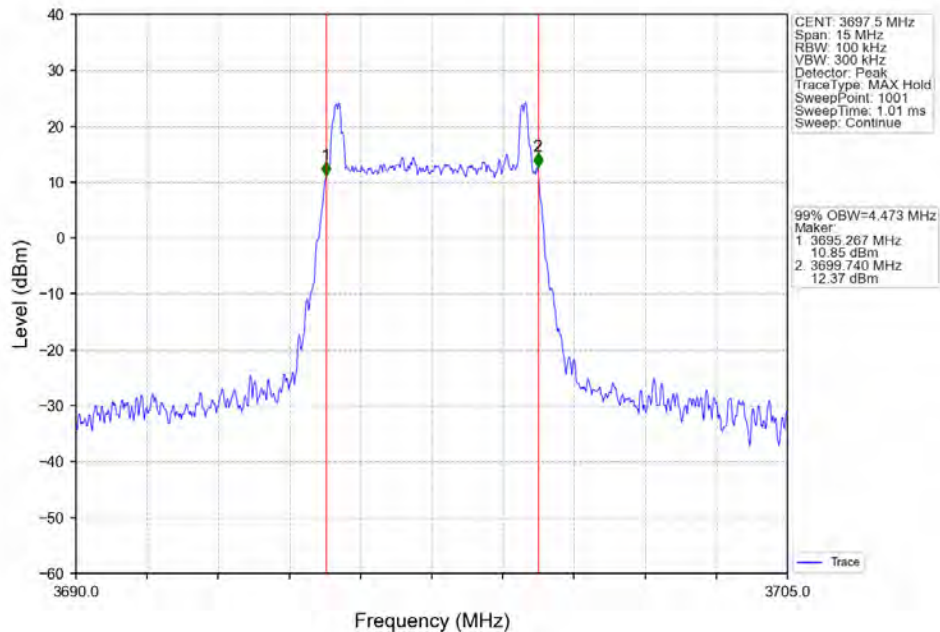
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Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV



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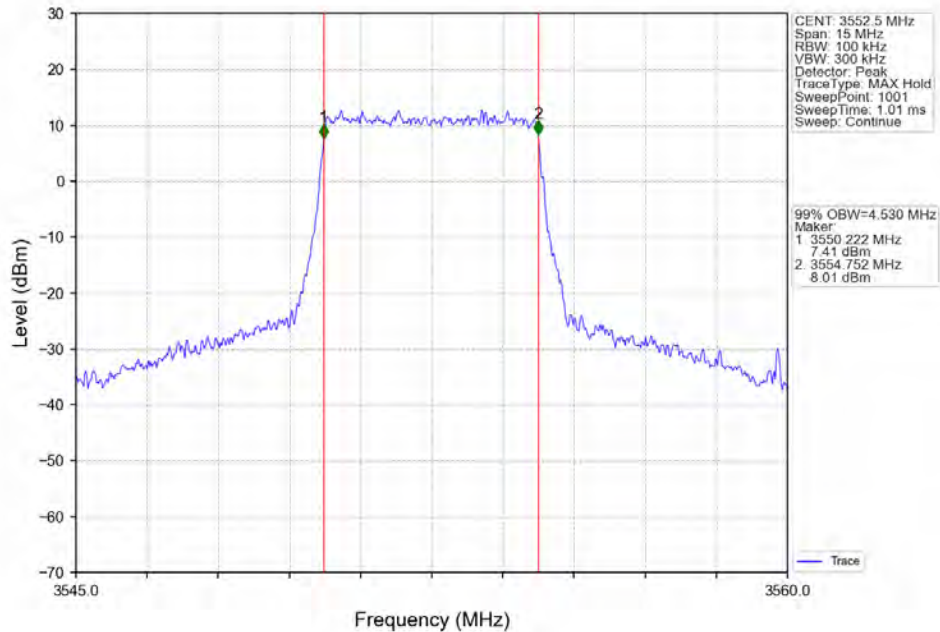
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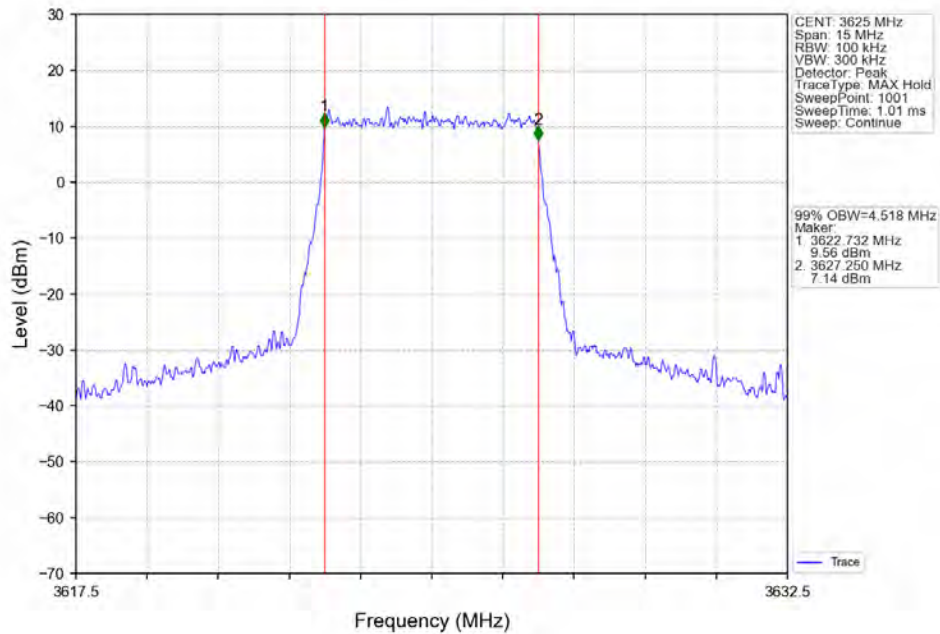
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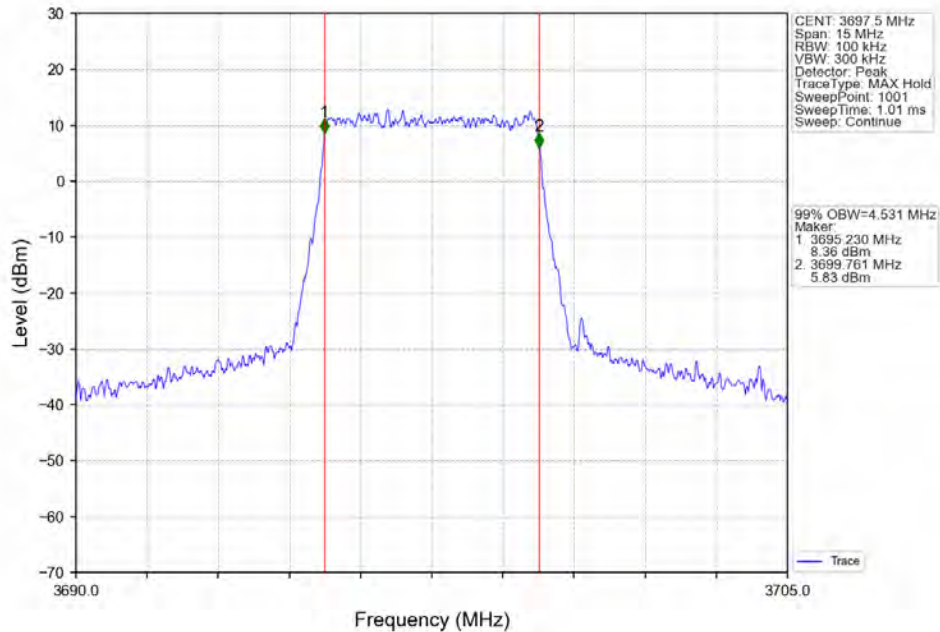
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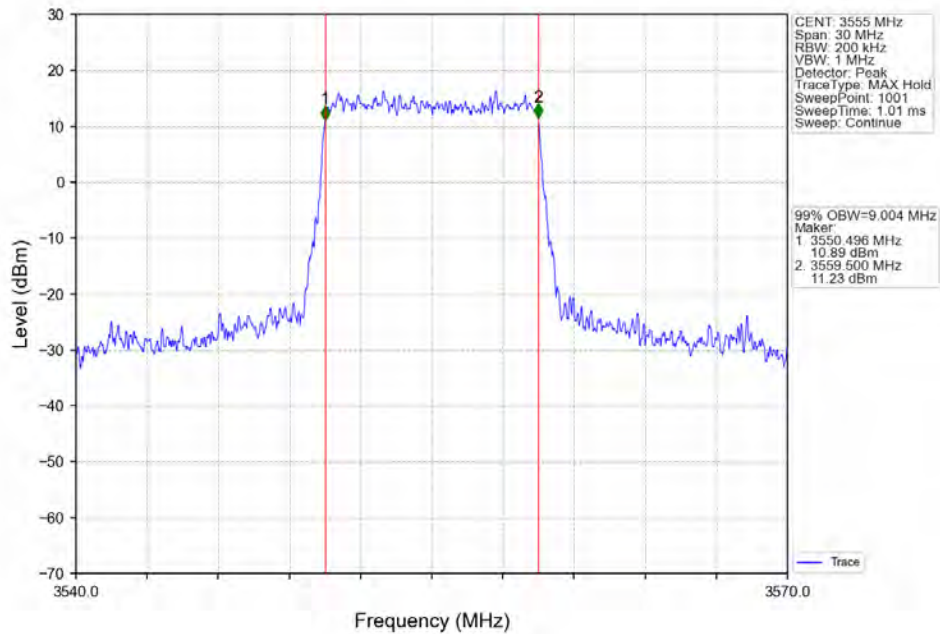
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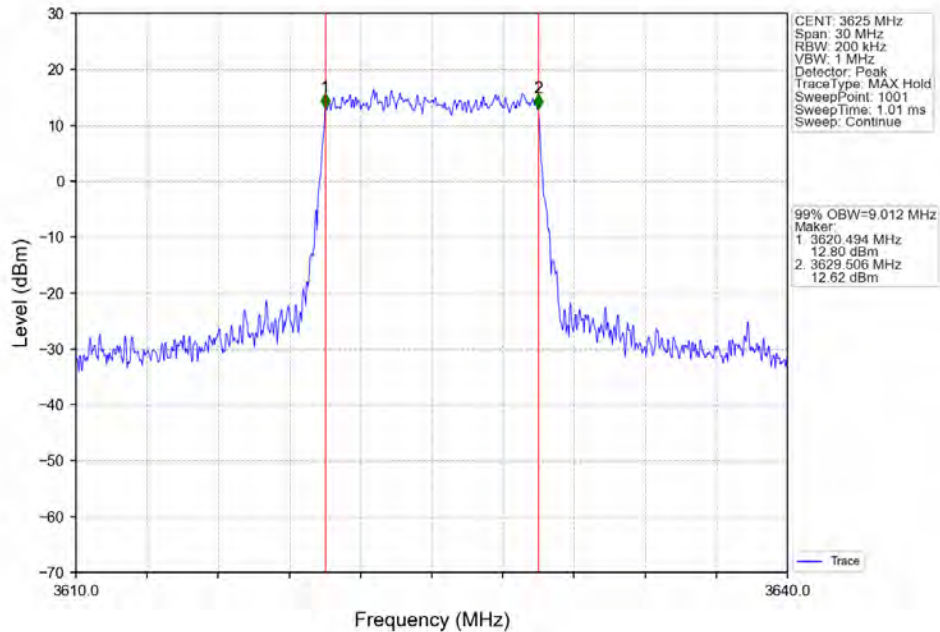
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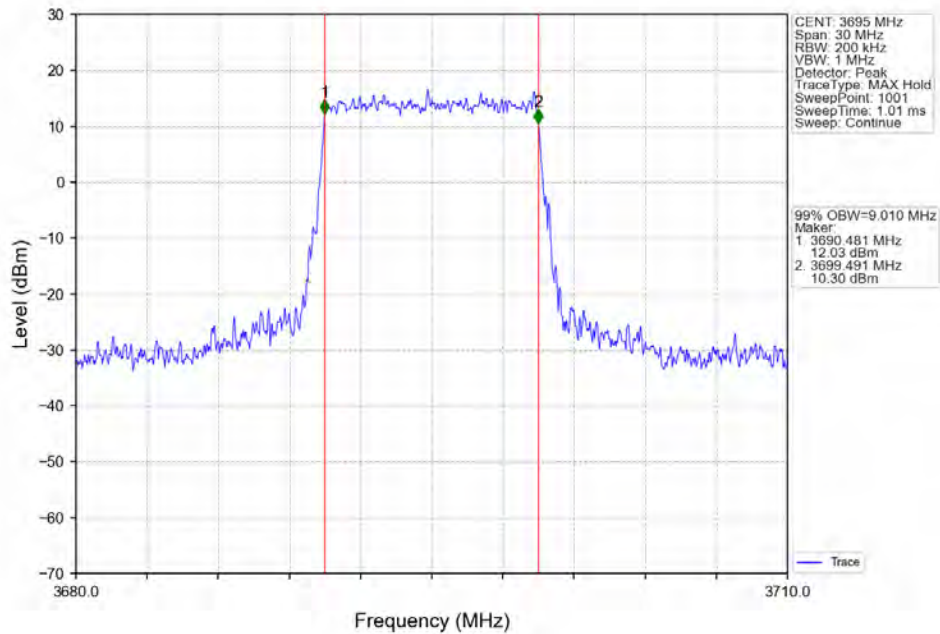
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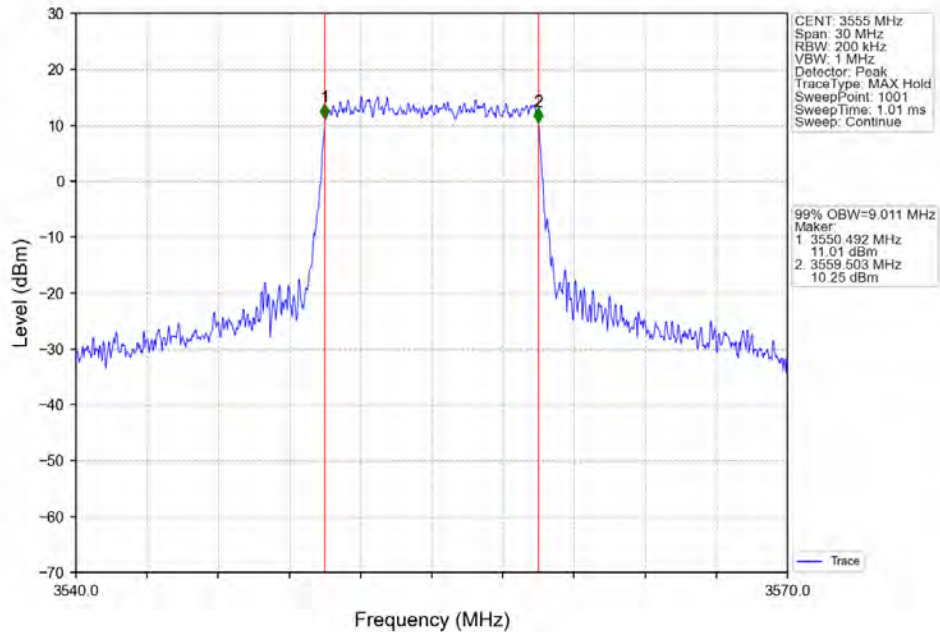
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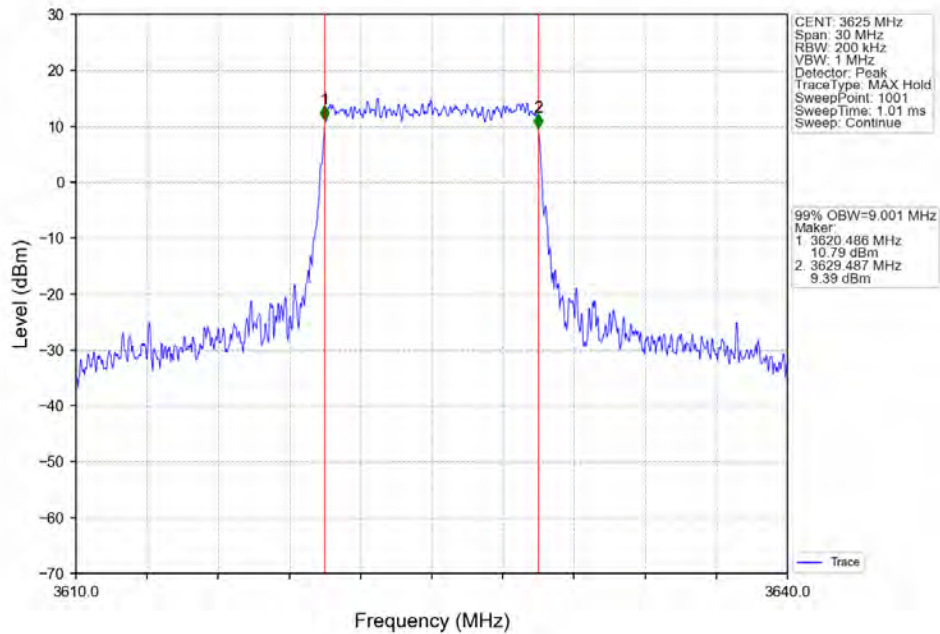
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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTNV



Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTNV



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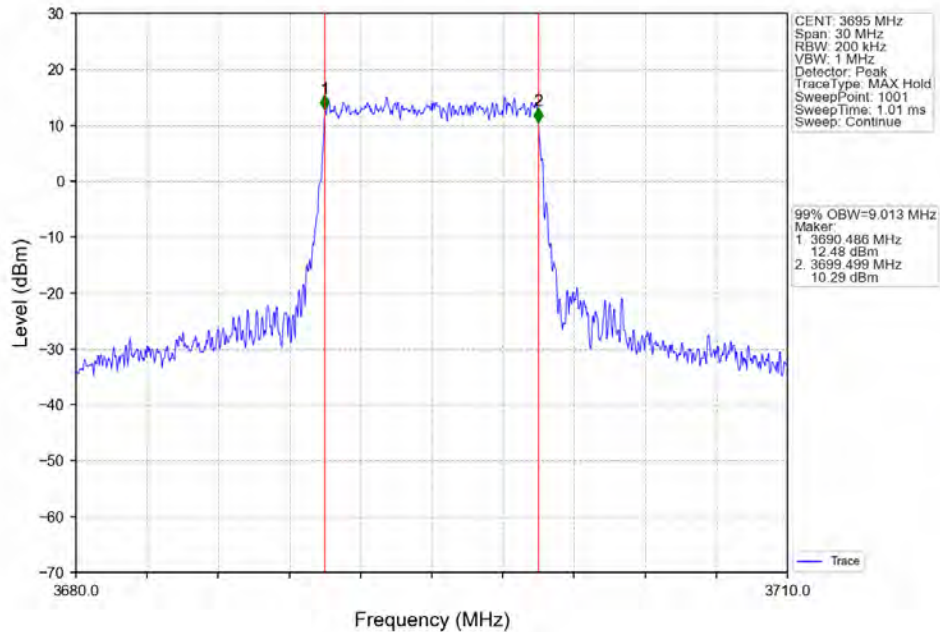
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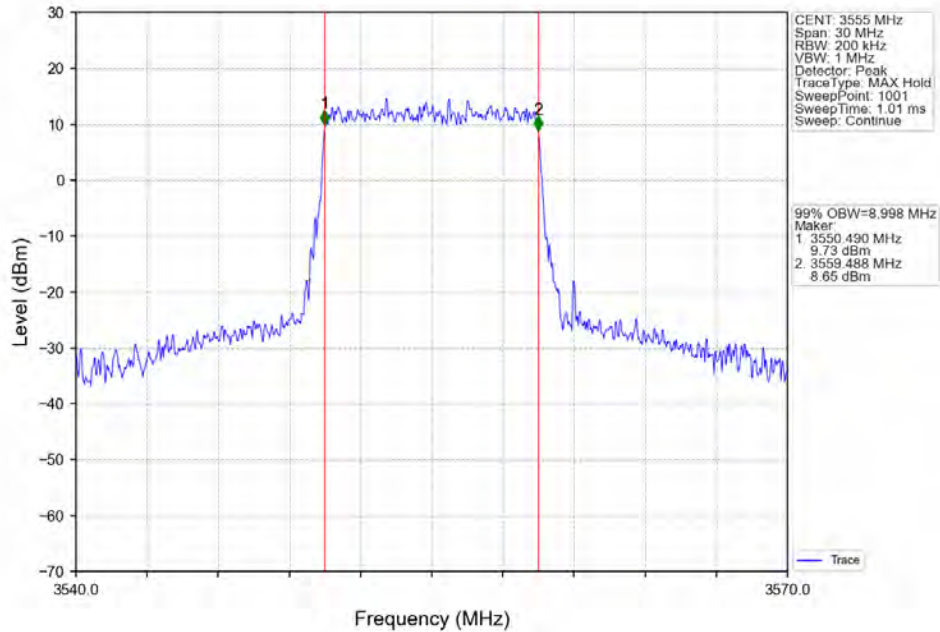
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Band48_10MHz_64QAM_LCH_3555MHz_RB_50_0_NTNV



Band48_10MHz_64QAM_MCH_3625MHz_RB_50_0_NTNV



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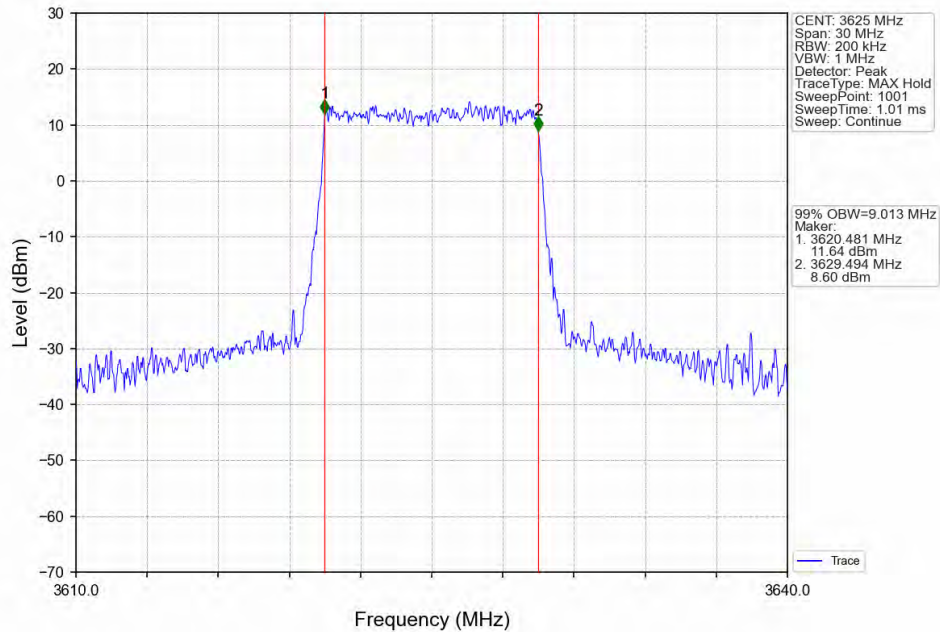
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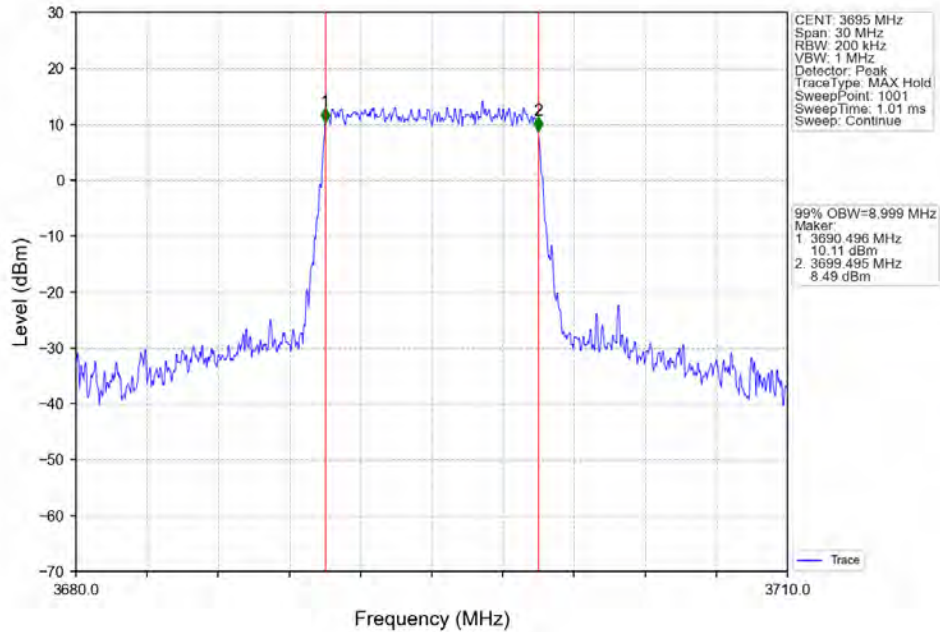
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Band48_10MHz_256QAM_LCH_3555MHz_RB_50_0_NTNV



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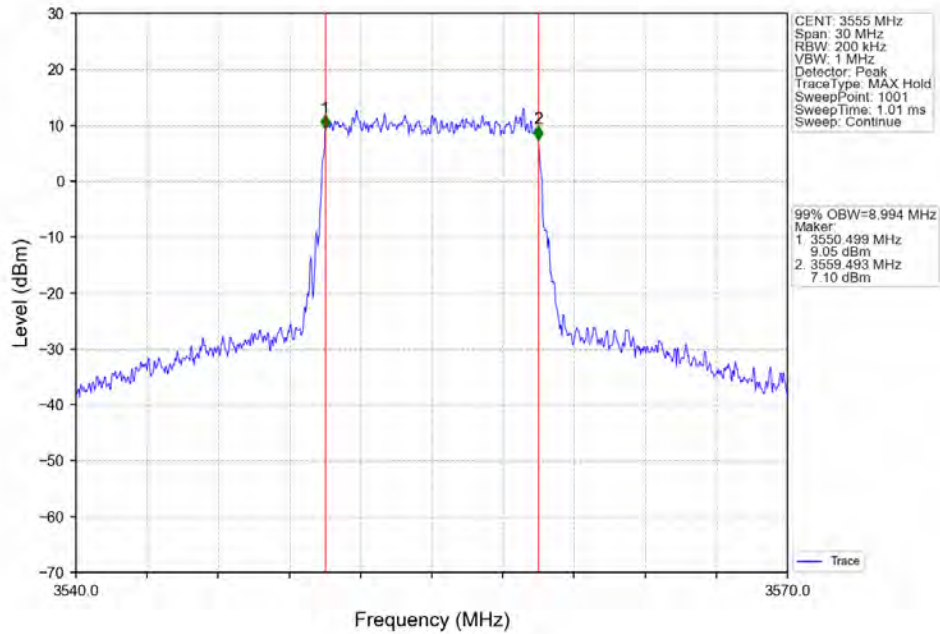
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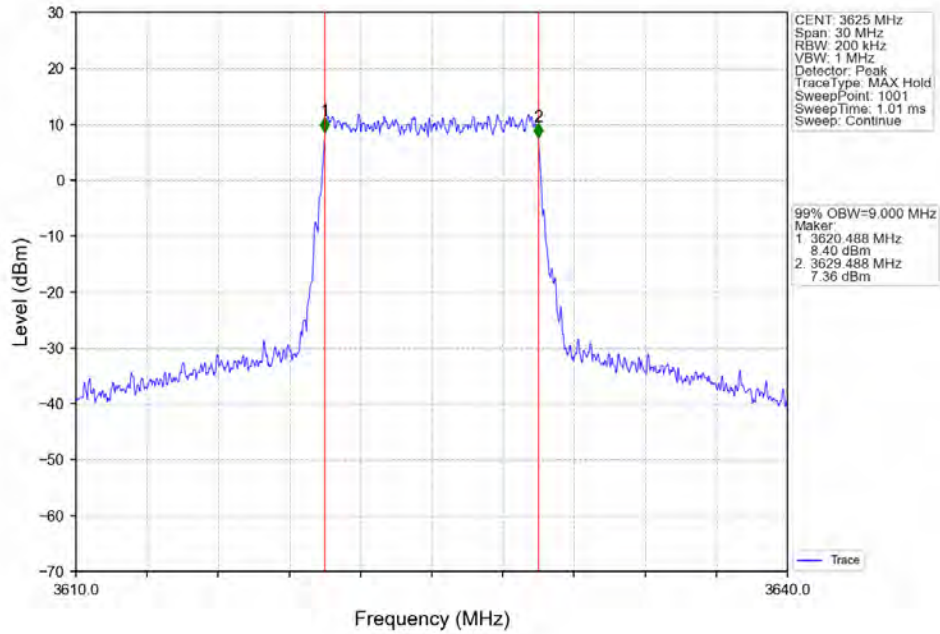
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Band48_10MHz_256QAM_HCH_3695MHz_RB_50_0_NTNV



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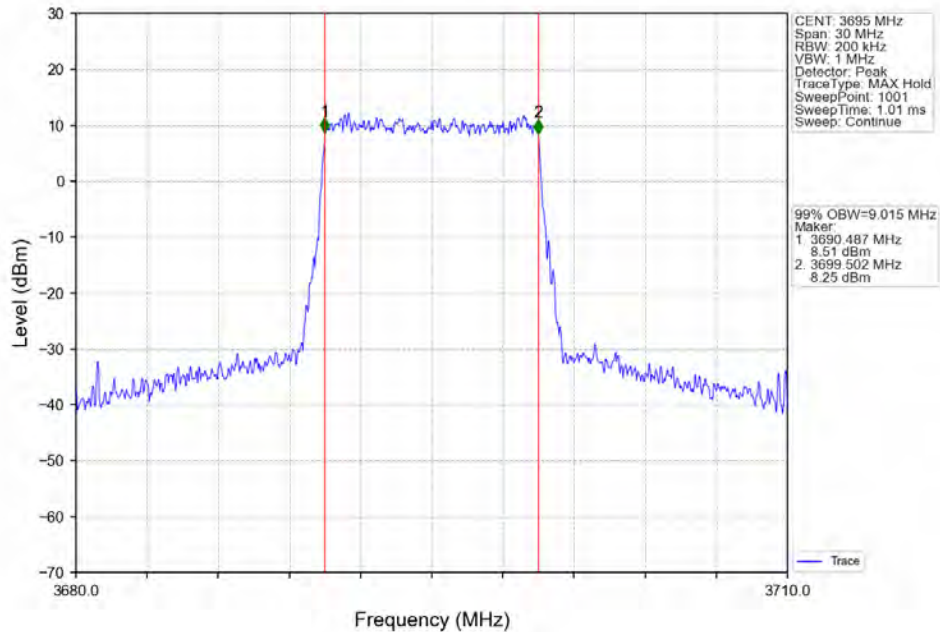
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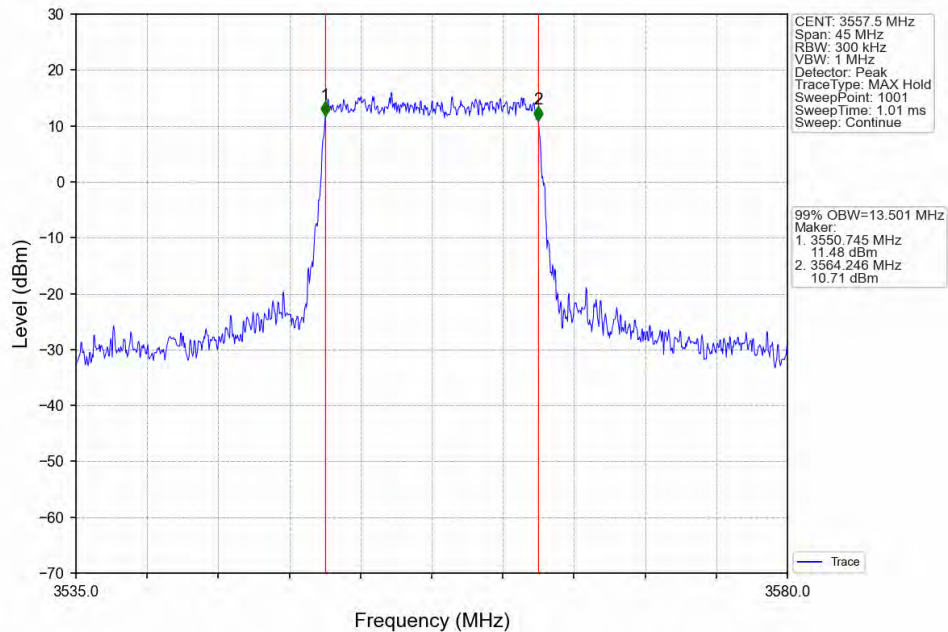
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Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV



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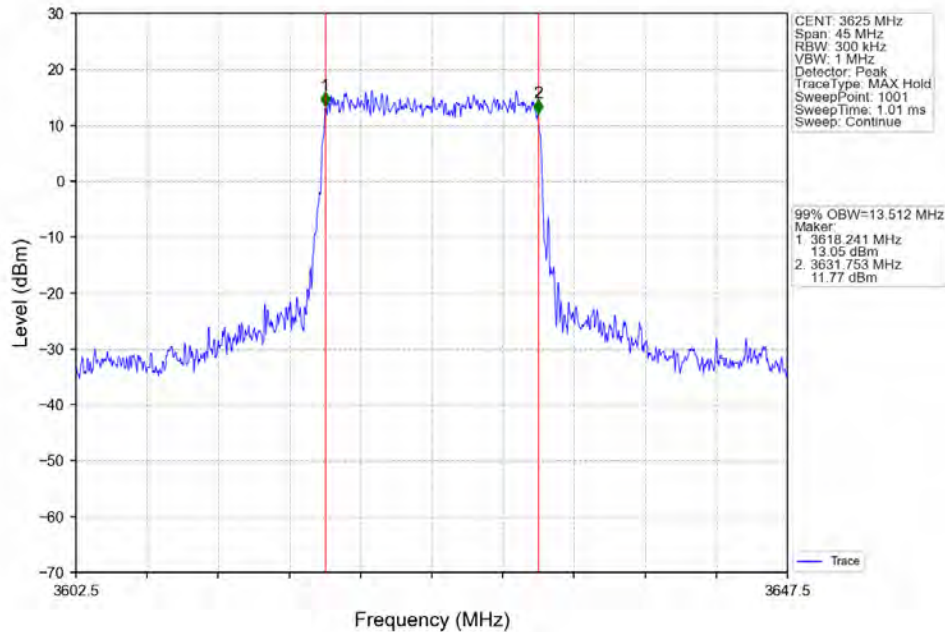
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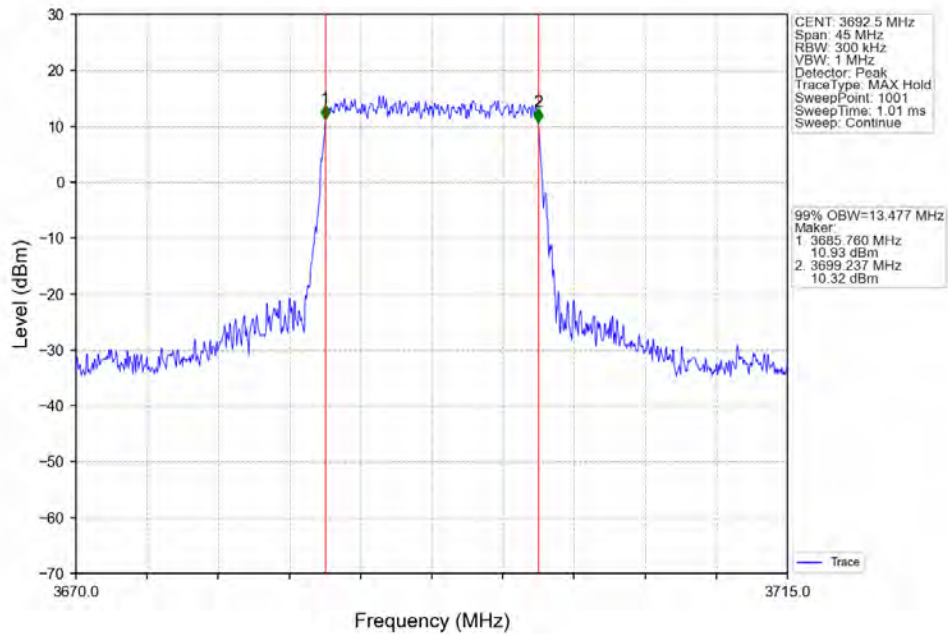
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



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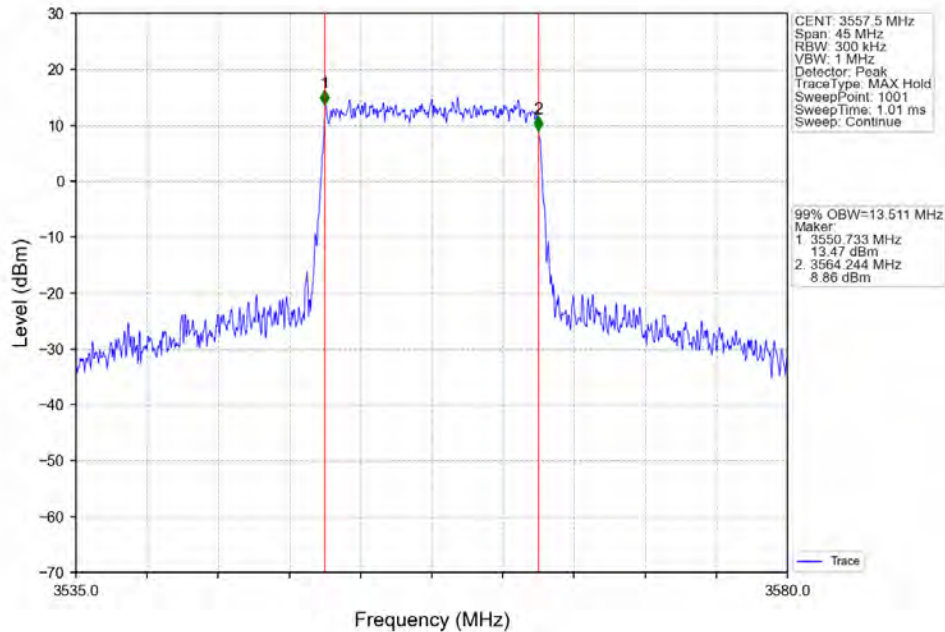
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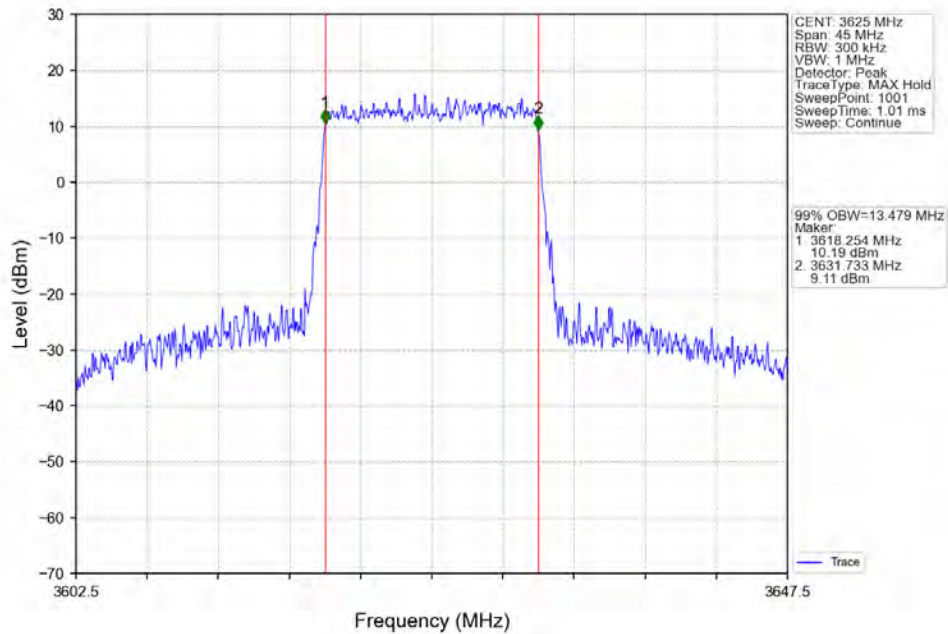
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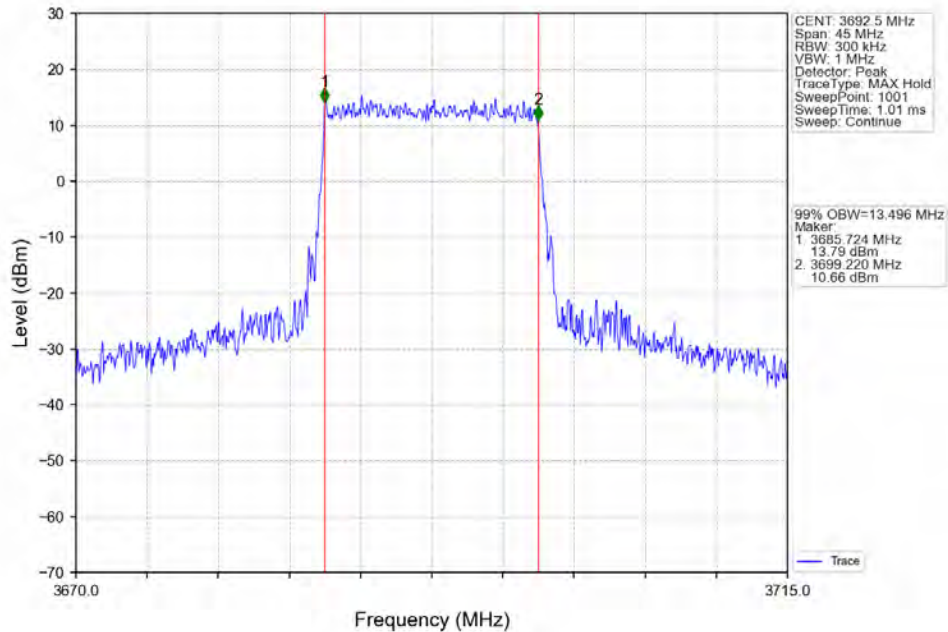
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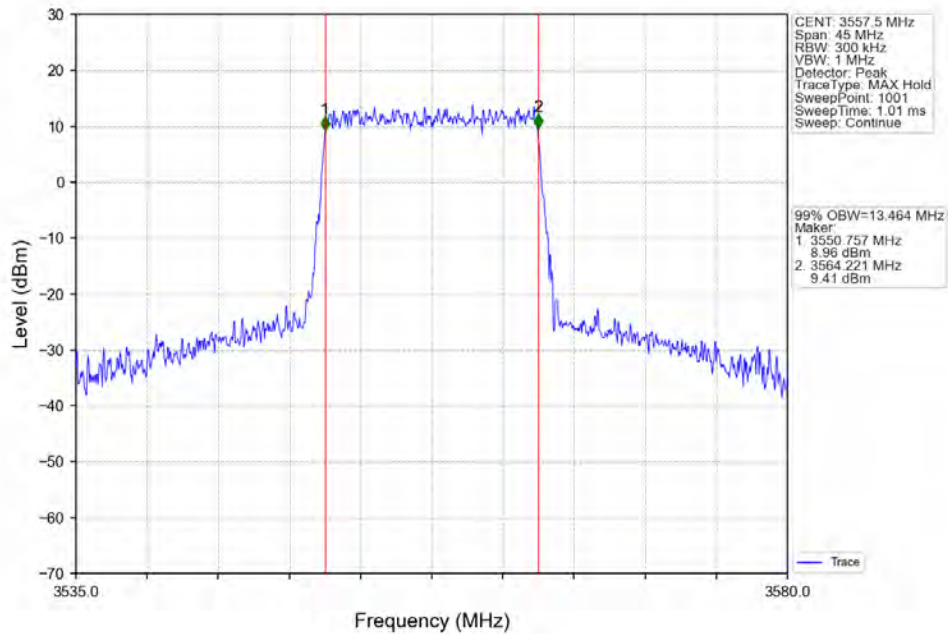
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Band48_15MHz_64QAM_MCH_3625MHz_RB_75_0_NTNV



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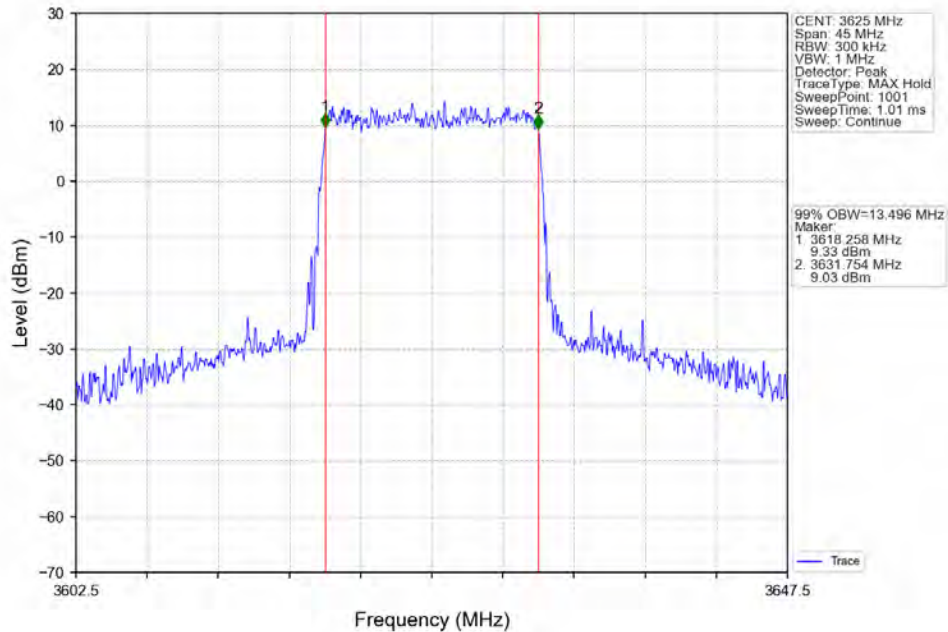
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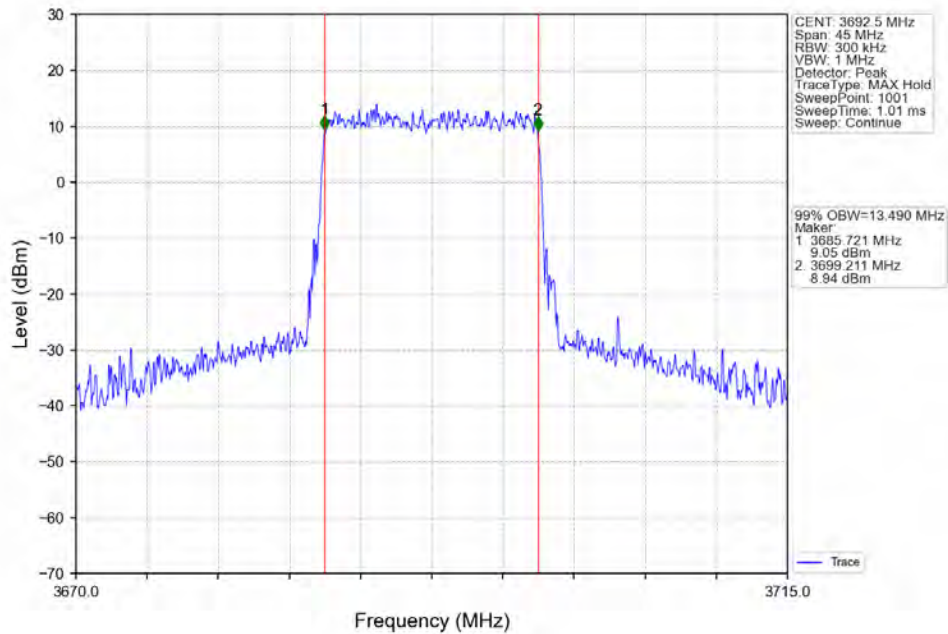
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Band48_15MHz_256QAM_LCH_3557.5MHz_RB_75_0_NTNV



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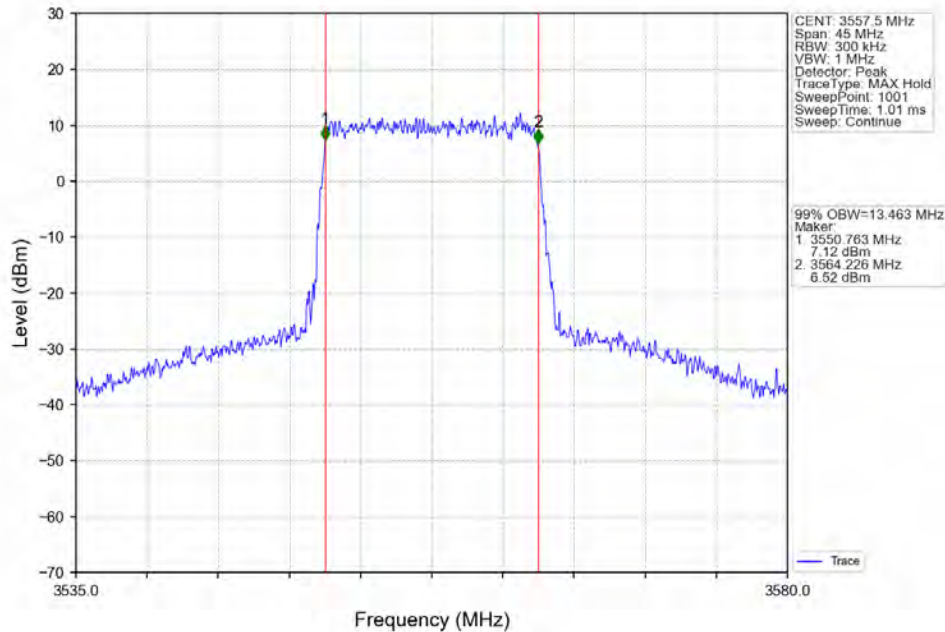
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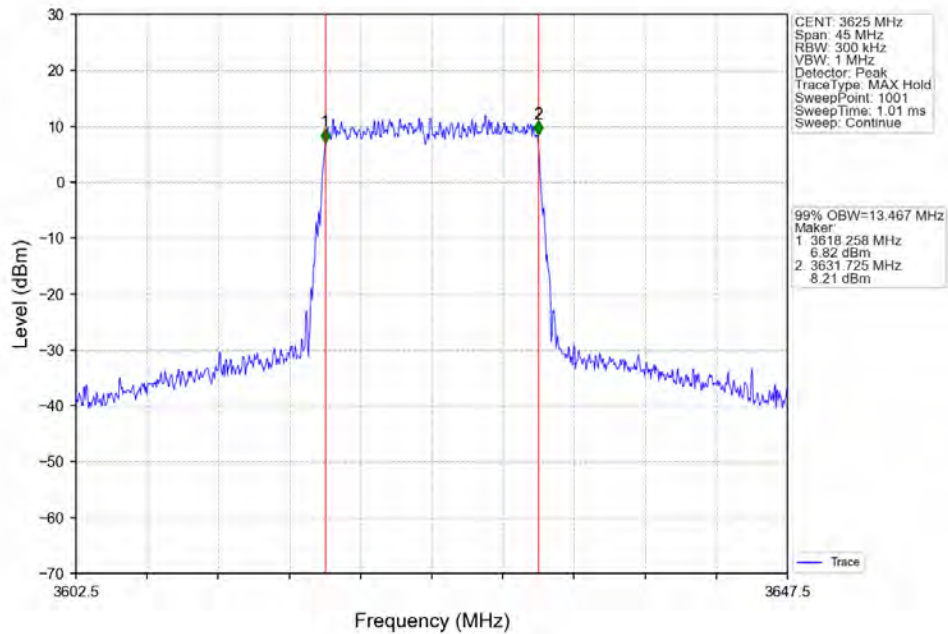
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Band48_15MHz_256QAM_HCH_3692.5MHz_RB_75_0_NTNV



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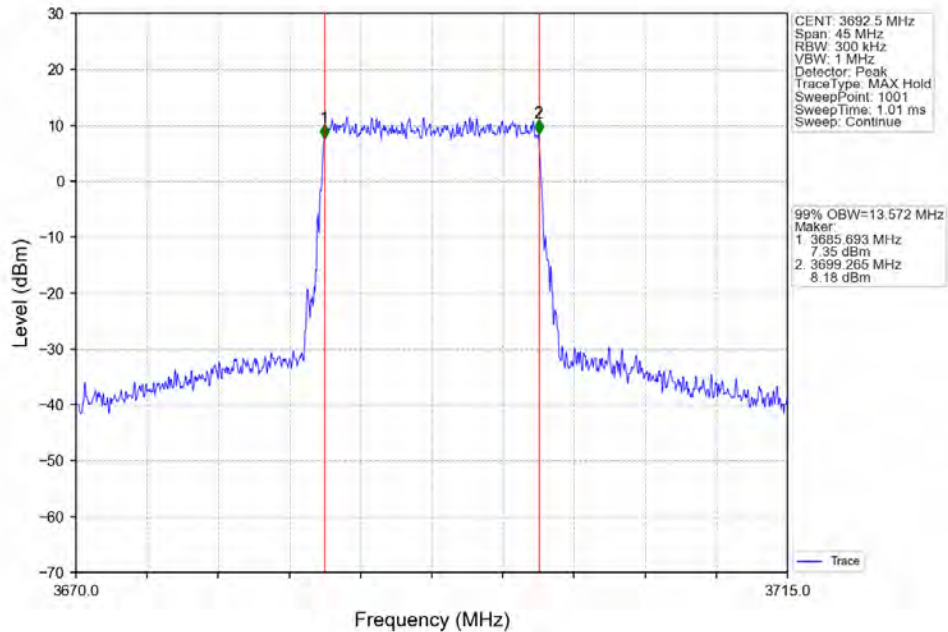
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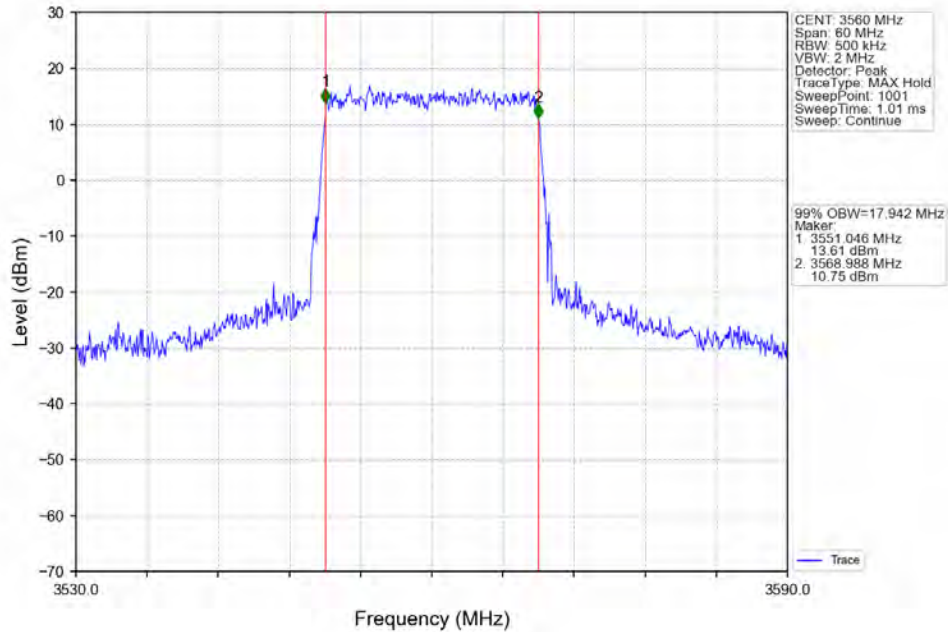
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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTN



Band48 20MHz QPSK MCH 3625MHz RB 100 0 NTN



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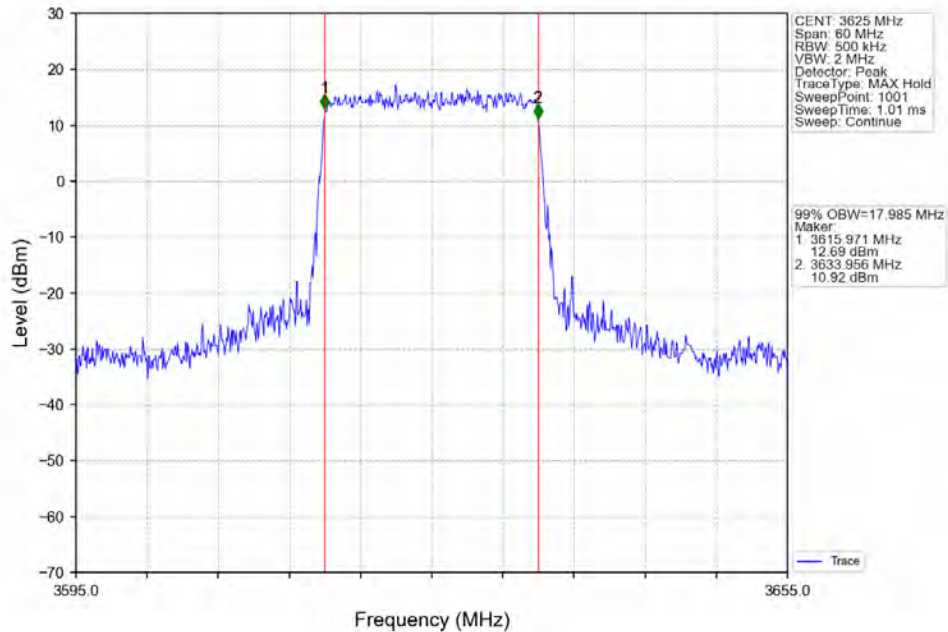
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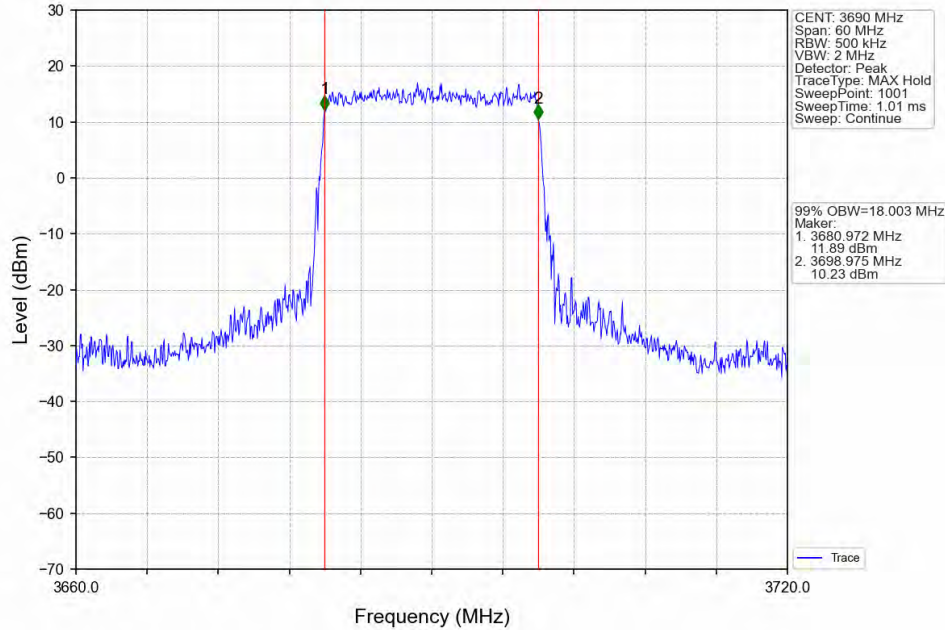
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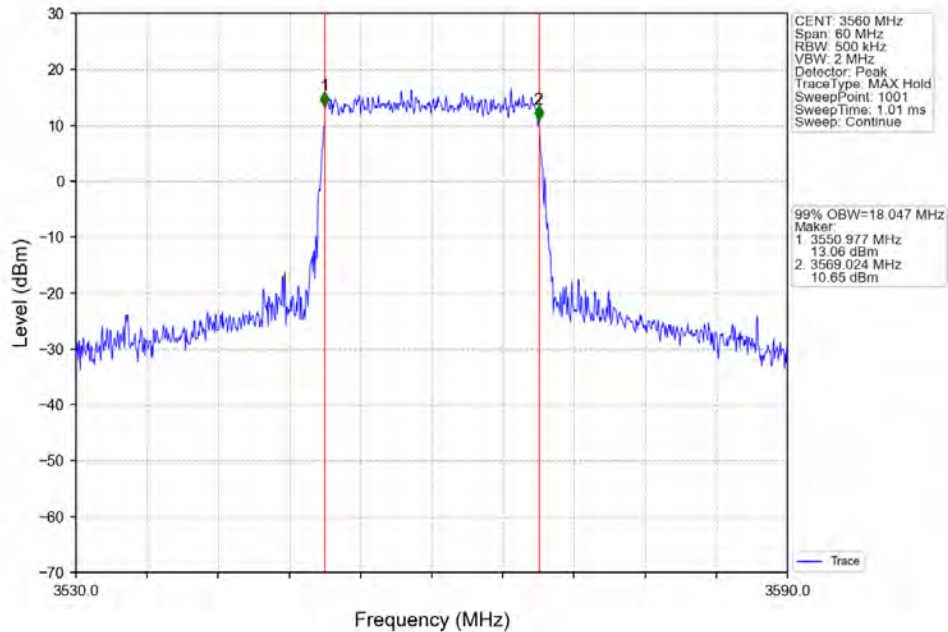
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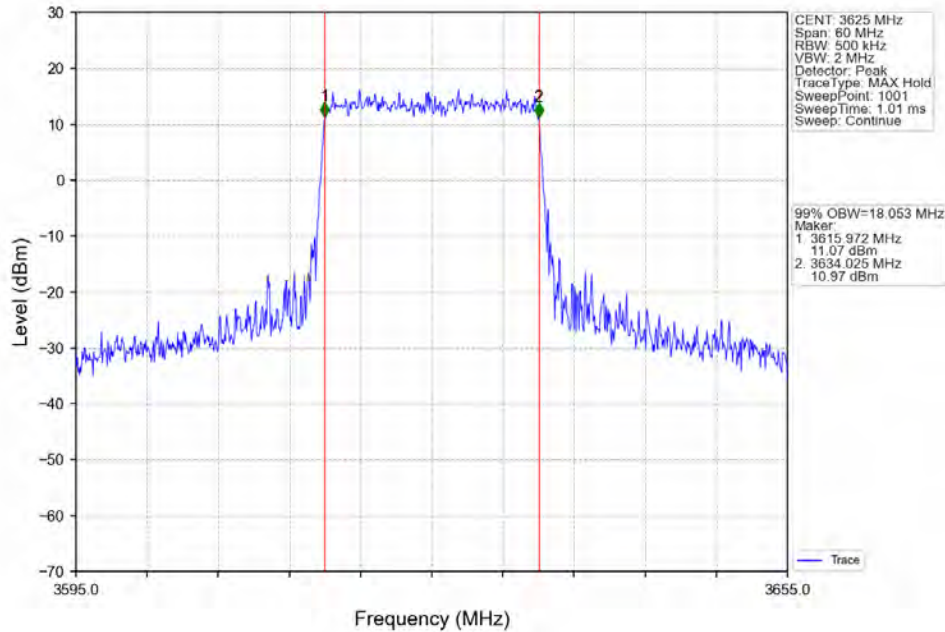
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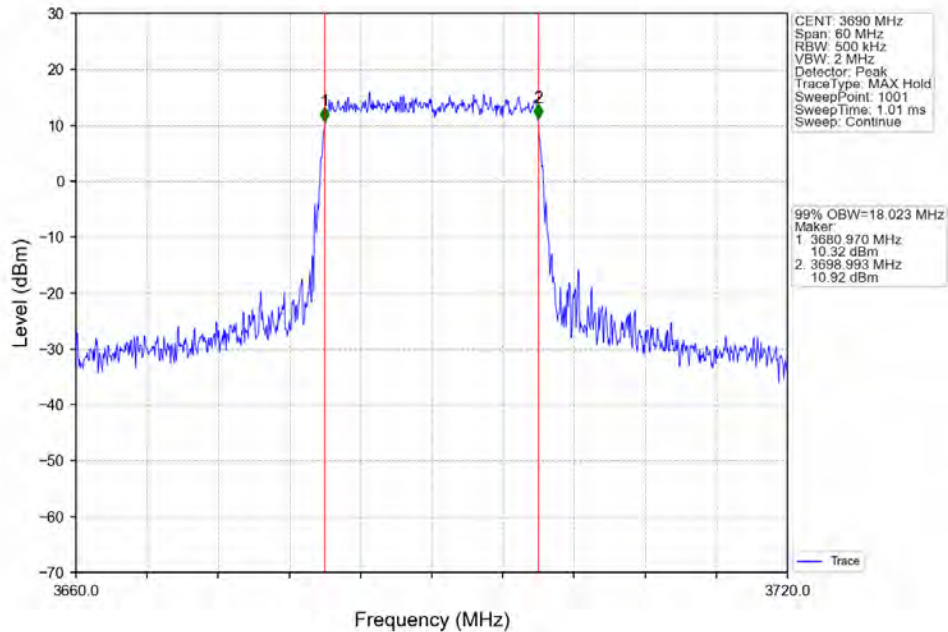
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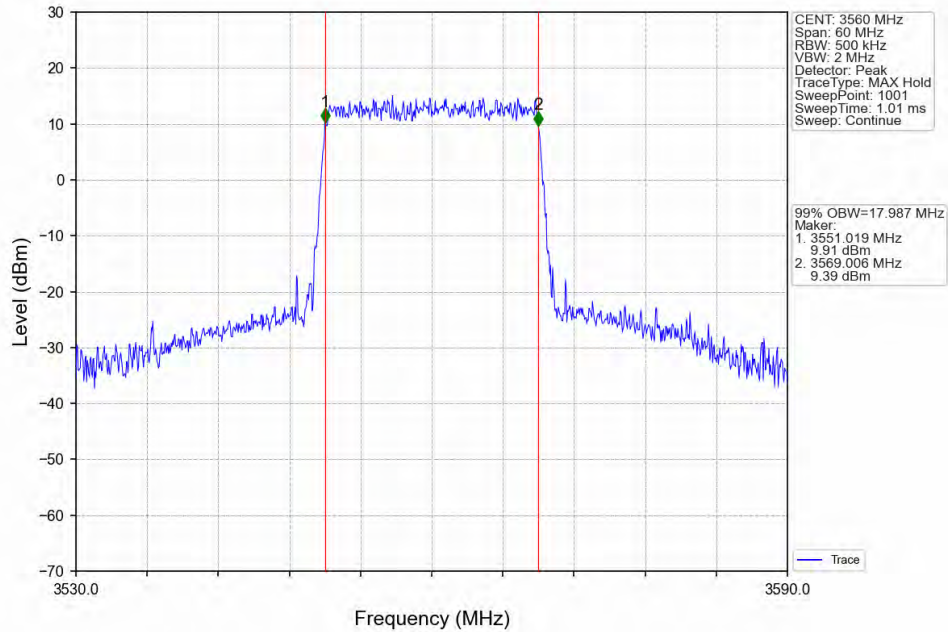
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Band48_20MHz_64QAM_MCH_3625MHz_RB_100_0_NTNV



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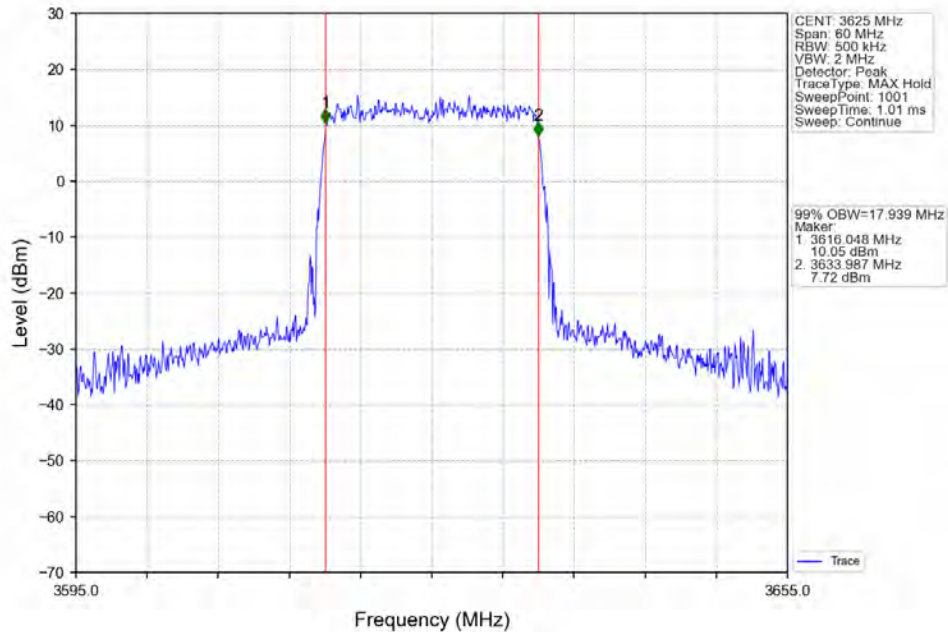
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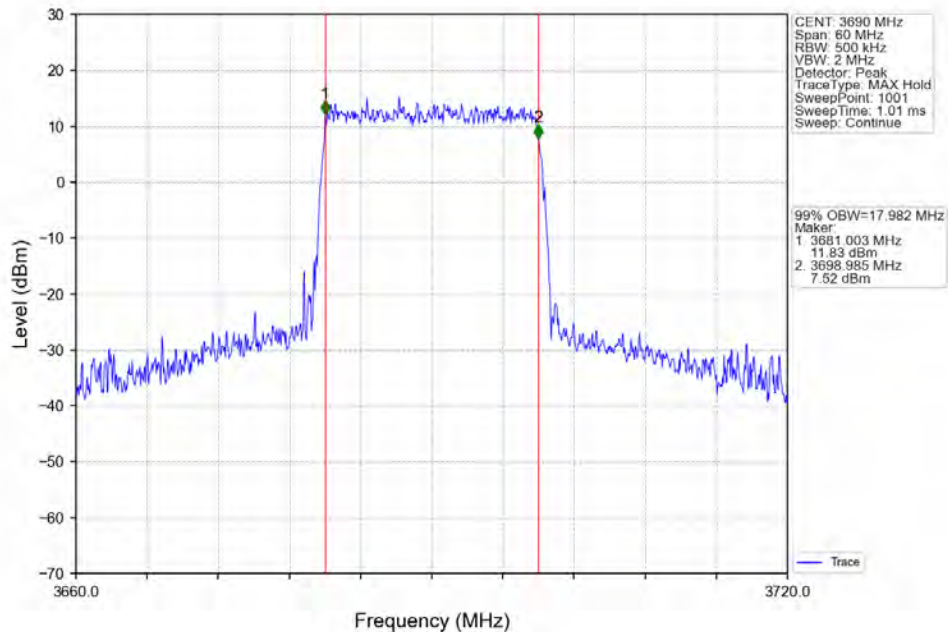
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Band48_20MHz_64QAM_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_256QAM_LCH_3560MHz_RB_100_0_NTNV



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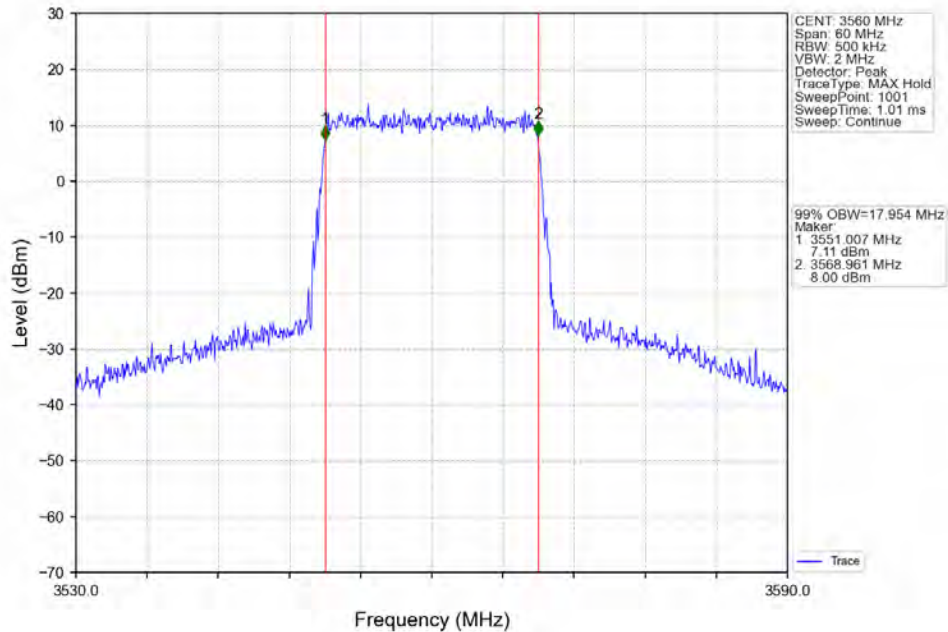
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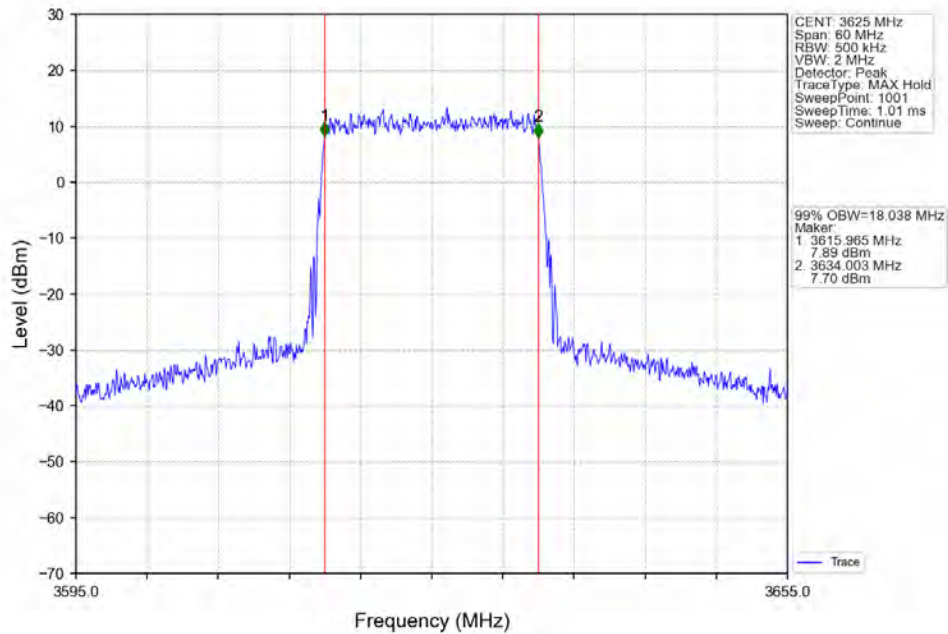
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Band48_20MHz_256QAM_HCH_3690MHz_RB_100_0_NTNV



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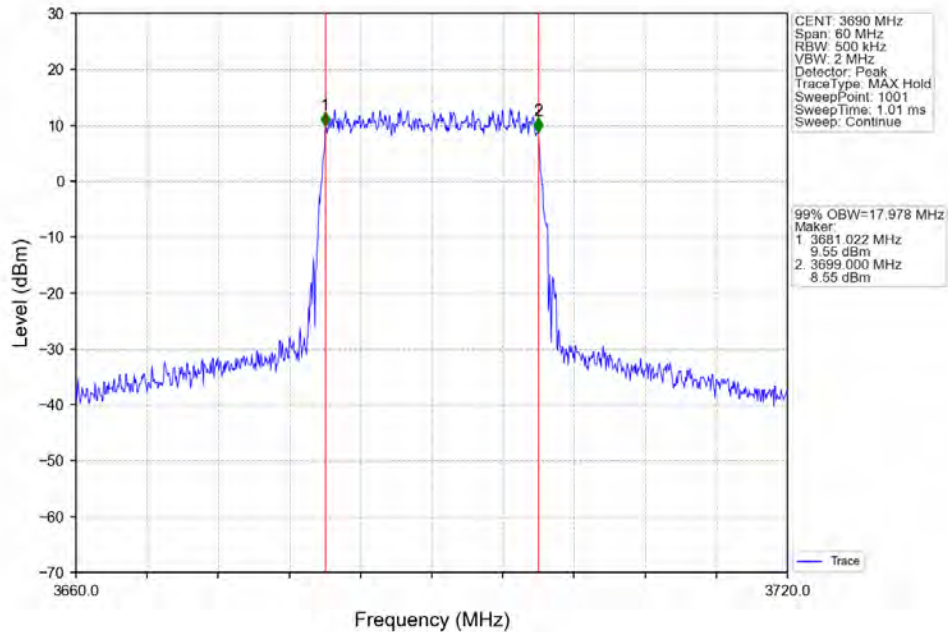
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3.2 Band48_XDB

3.2.1 Test Result

Band: 48 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	5.157	/	Pass
		3625	25	0	5.157	/	Pass
		3697.5	25	0	5.201	/	Pass
	16QAM	3552.5	25	0	5.234	/	Pass
		3625	25	0	5.180	/	Pass
		3697.5	25	0	5.204	/	Pass
	64QAM	3552.5	25	0	4.842	/	Pass
		3625	25	0	4.798	/	Pass
		3697.5	25	0	4.820	/	Pass
	256QAM	3552.5	25	0	5.151	/	Pass
		3625	25	0	5.145	/	Pass
		3697.5	25	0	5.149	/	Pass
10	QPSK	3555	50	0	9.853	/	Pass
		3625	50	0	9.919	/	Pass
		3695	50	0	10.035	/	Pass
	16QAM	3555	50	0	9.982	/	Pass
		3625	50	0	9.910	/	Pass
		3695	50	0	9.941	/	Pass
	64QAM	3555	50	0	9.853	/	Pass
		3625	50	0	9.890	/	Pass
		3695	50	0	10.033	/	Pass
	256QAM	3555	50	0	9.885	/	Pass
		3625	50	0	9.897	/	Pass
		3695	50	0	9.973	/	Pass
15	QPSK	3557.5	75	0	14.692	/	Pass
		3625	75	0	14.871	/	Pass
		3692.5	75	0	14.796	/	Pass
	16QAM	3557.5	75	0	14.785	/	Pass
		3625	75	0	14.693	/	Pass
		3692.5	75	0	14.892	/	Pass
	64QAM	3557.5	75	0	14.792	/	Pass
		3625	75	0	14.468	/	Pass
		3692.5	75	0	14.784	/	Pass
	256QAM	3557.5	75	0	14.698	/	Pass
		3625	75	0	14.731	/	Pass
		3692.5	75	0	14.678	/	Pass
20	QPSK	3560	100	0	19.771	/	Pass
		3625	100	0	19.572	/	Pass
		3690	100	0	19.714	/	Pass



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	16QAM	3560	100	0	19.476	/	Pass
		3625	100	0	19.550	/	Pass
		3690	100	0	19.748	/	Pass
	64QAM	3560	100	0	19.403	/	Pass
		3625	100	0	19.577	/	Pass
		3690	100	0	19.369	/	Pass
	256QAM	3560	100	0	19.845	/	Pass
		3625	100	0	19.629	/	Pass
		3690	100	0	19.507	/	Pass



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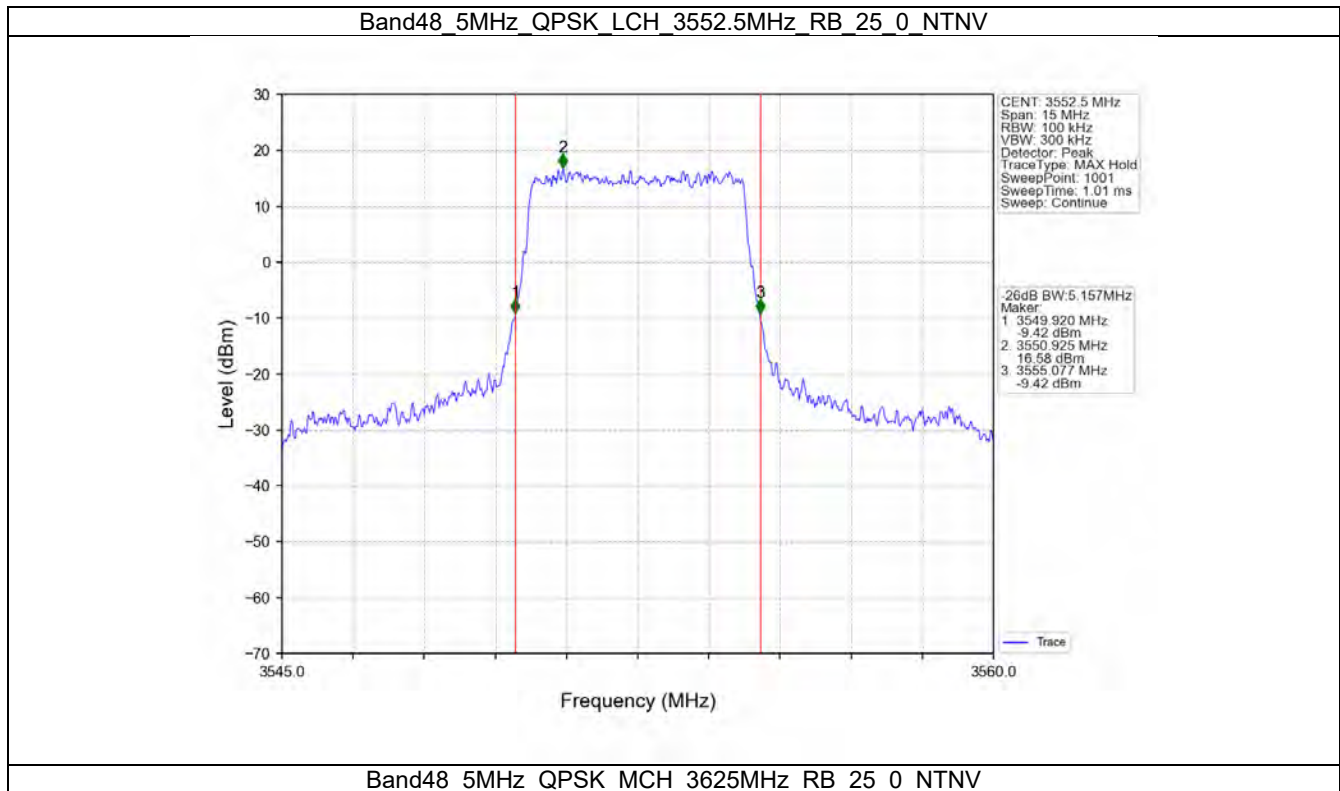
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3.2.2 Test Graph



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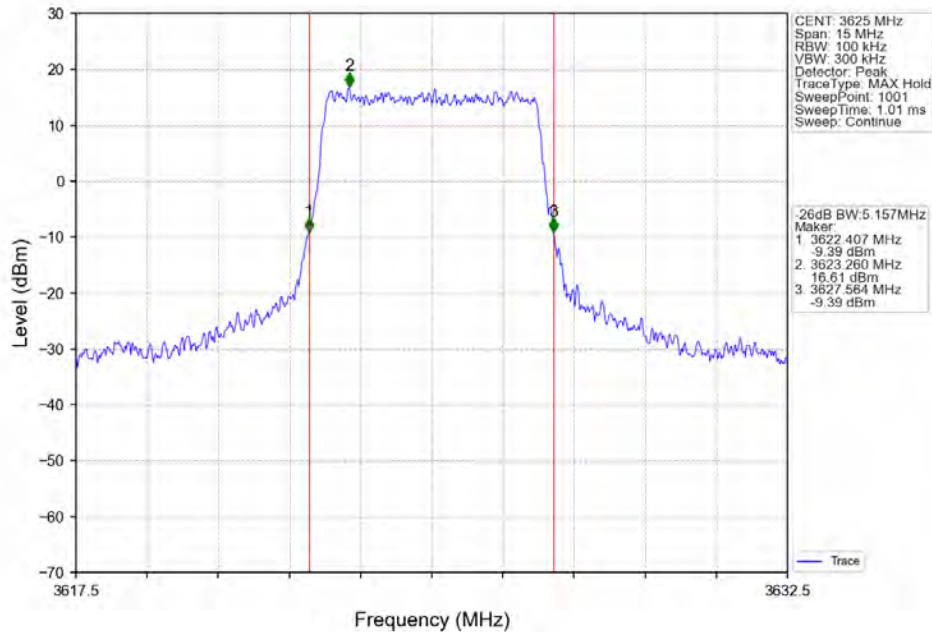
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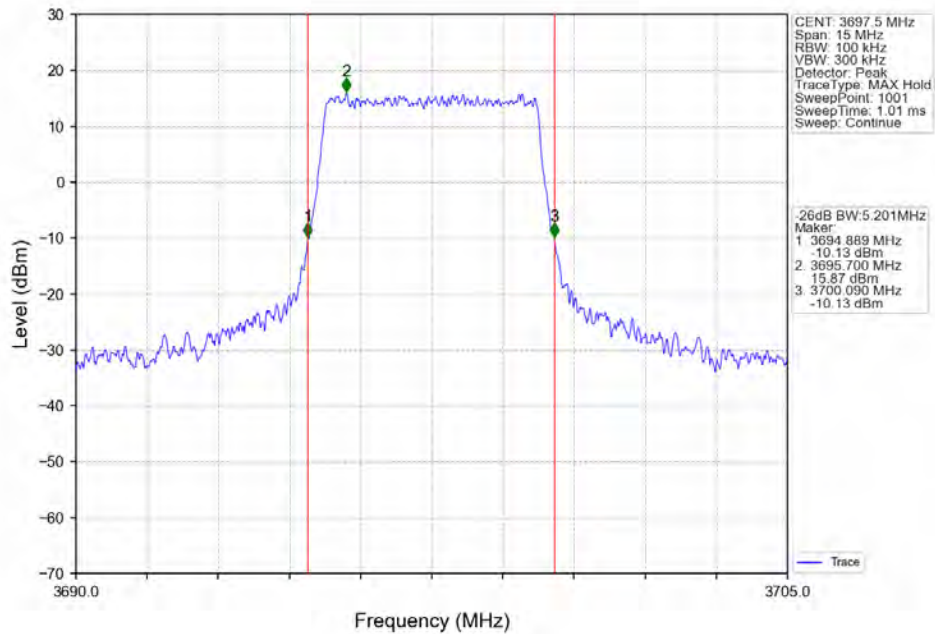
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Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV



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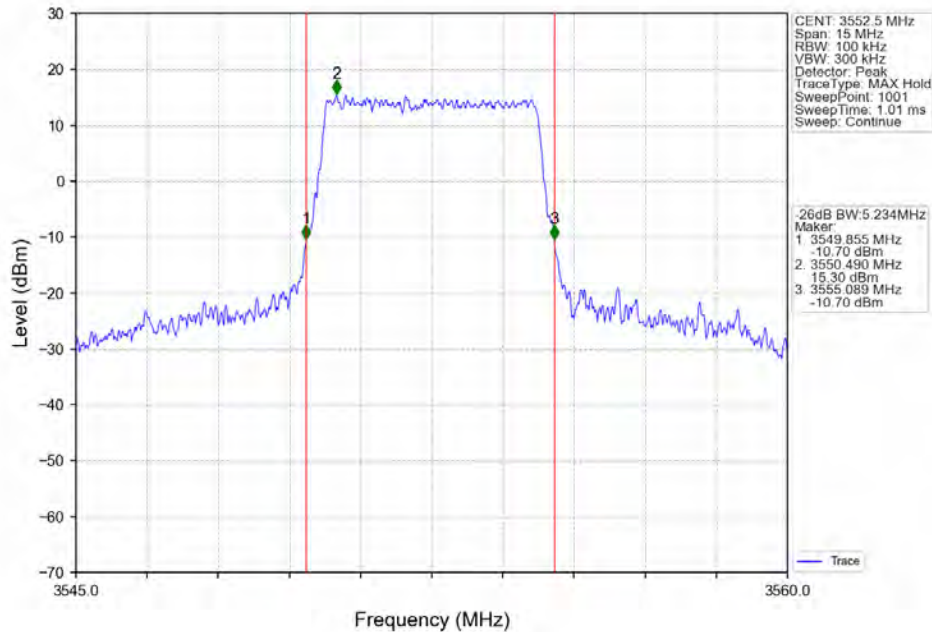
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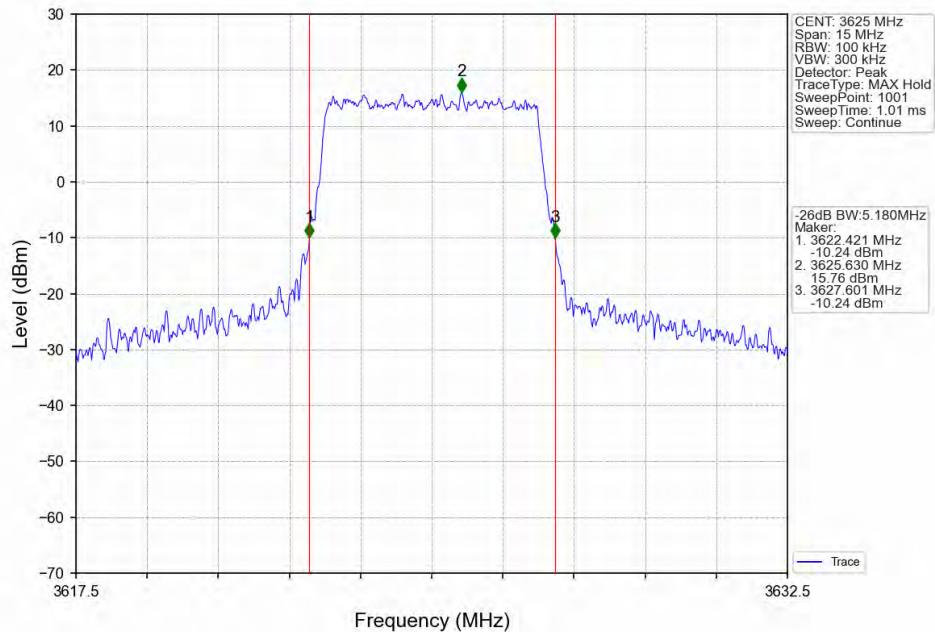
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Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV



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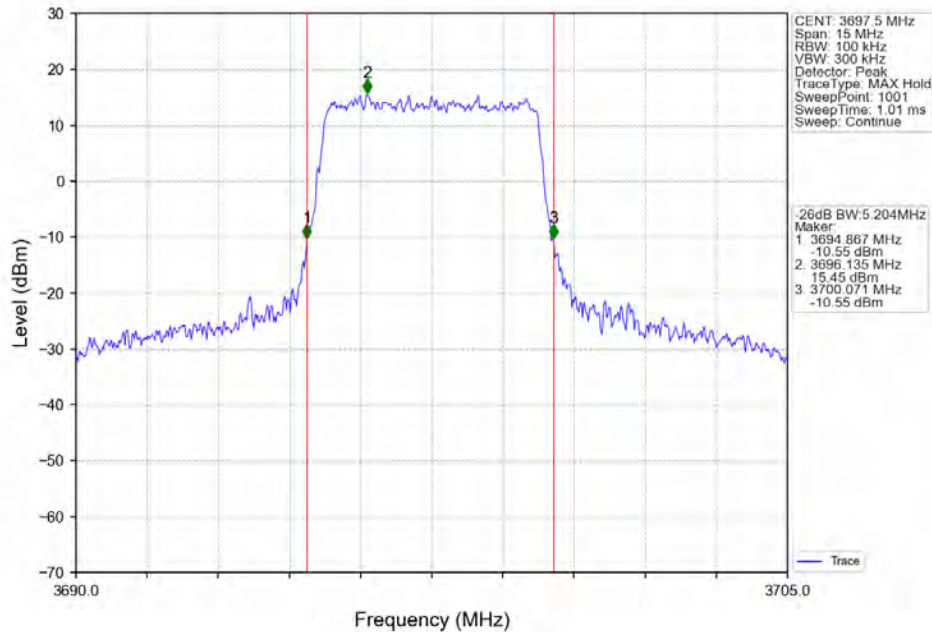
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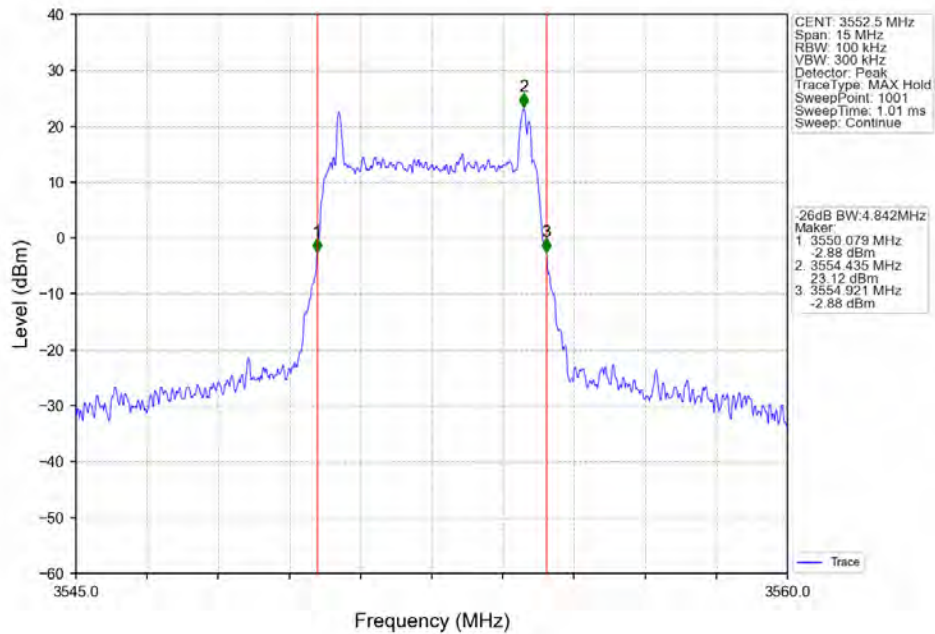
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_25_0_NTNV



Band48_5MHz_64QAM_MCH_3625MHz_RB_25_0_NTNV



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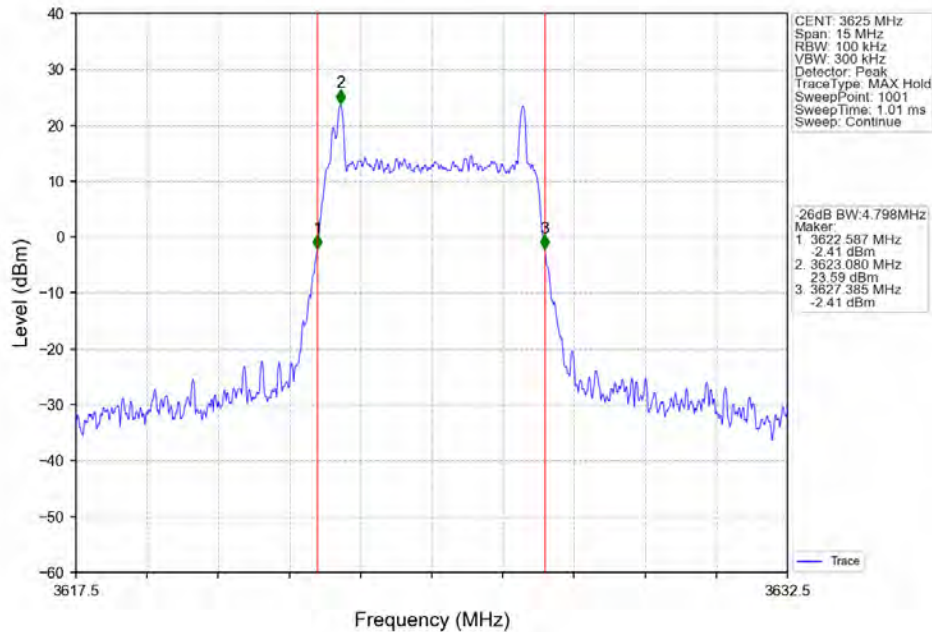
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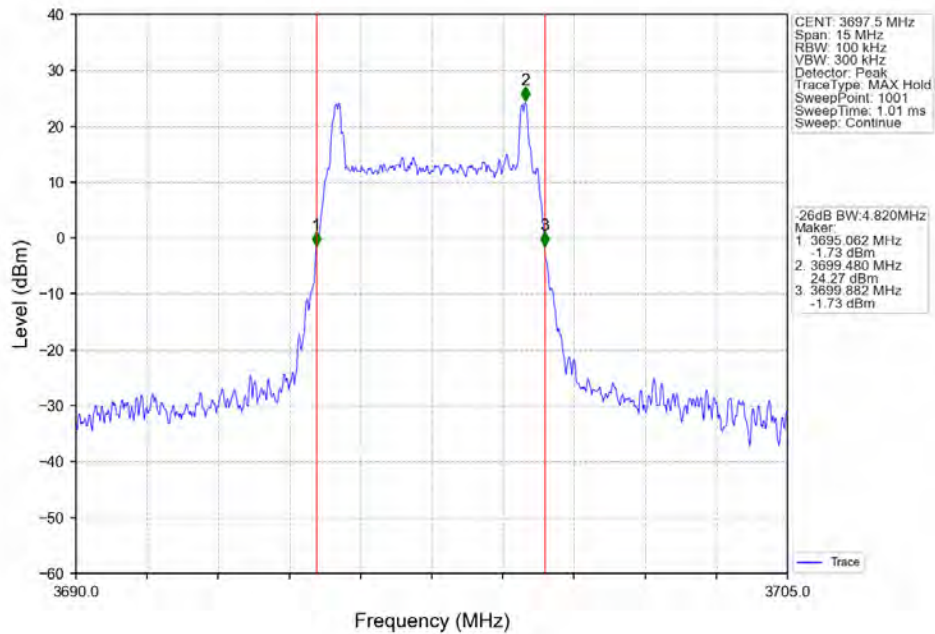
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Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV



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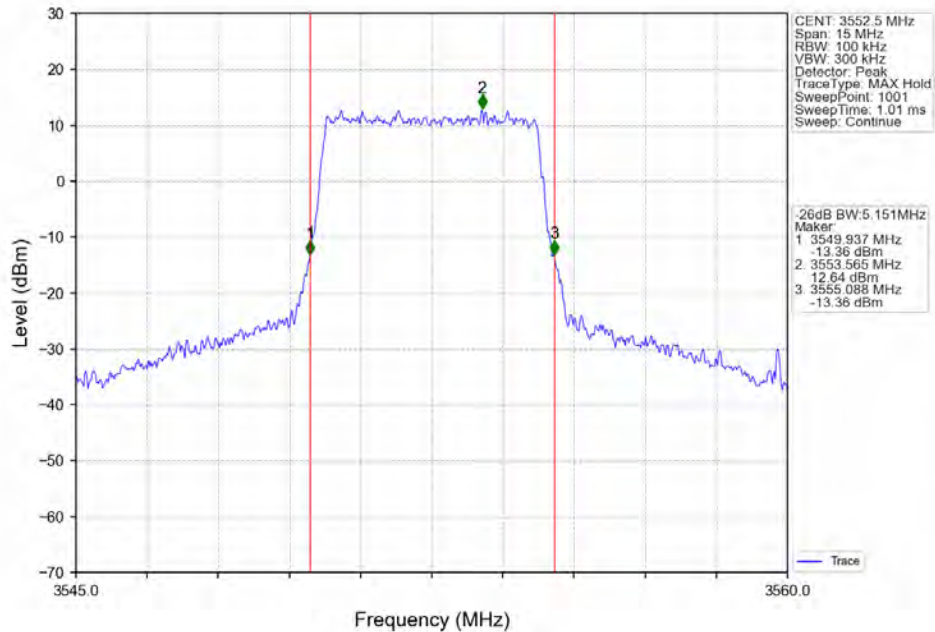
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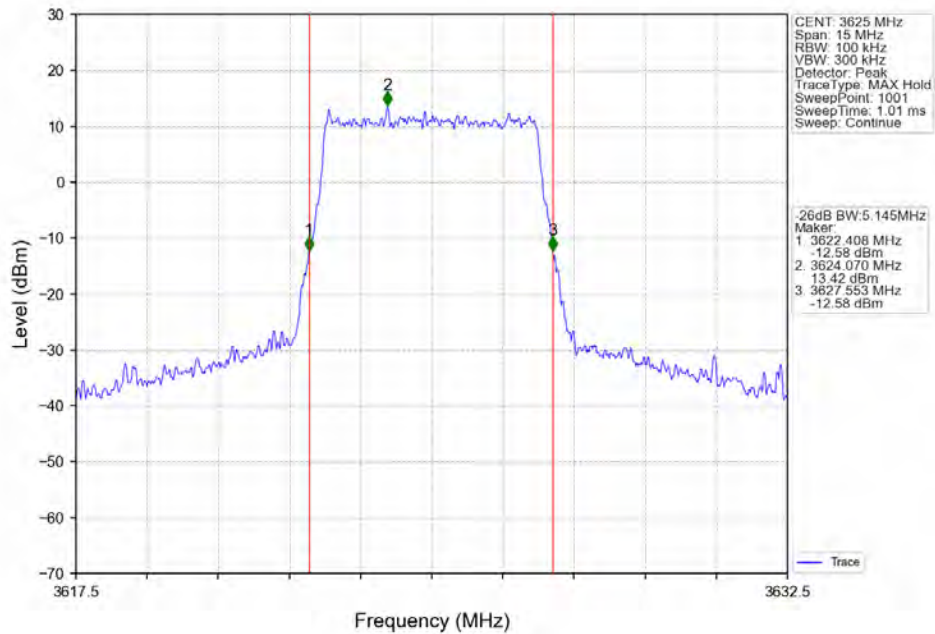
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Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV



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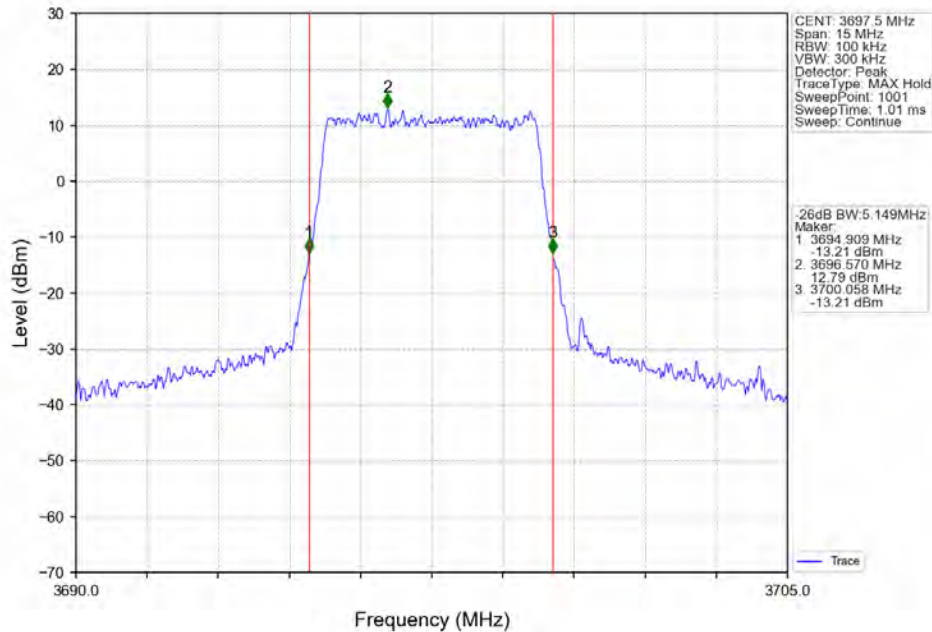
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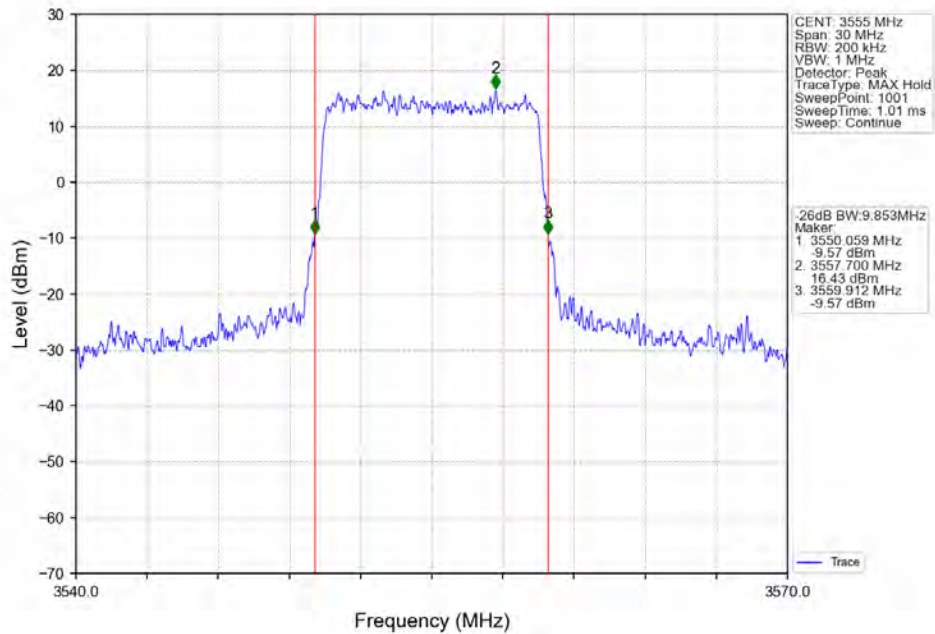
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Band48_10MHz_QPSK_MCH_3625MHz_RB_50_0_NTNV



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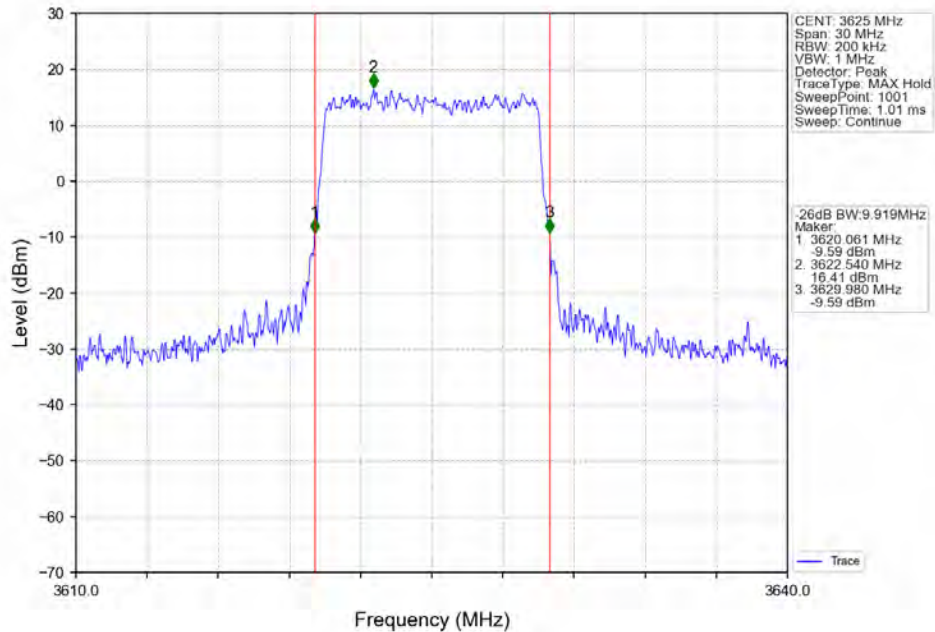
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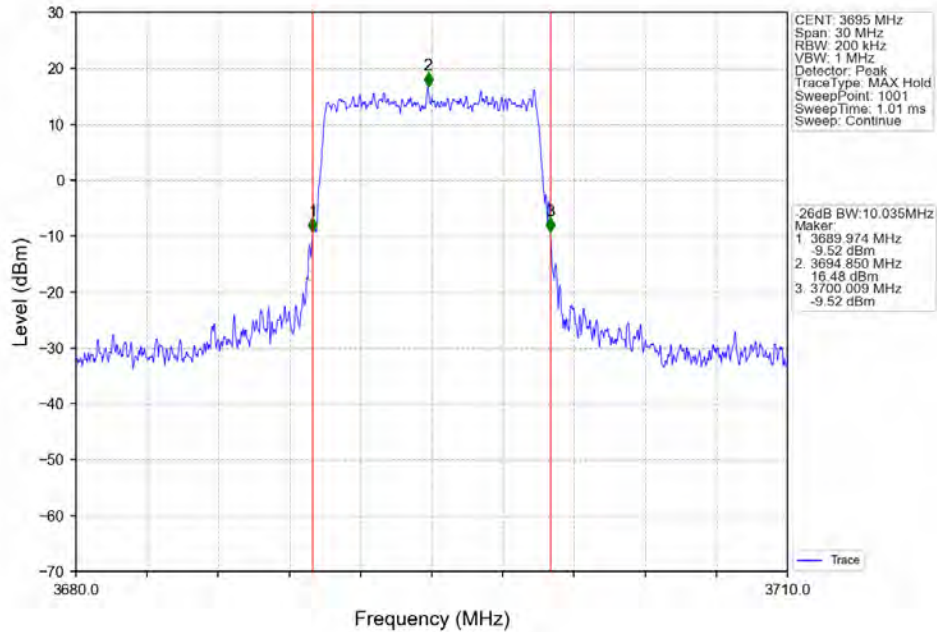
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Band48_10MHz QPSK HCH 3695MHz RB_50_0_NTNV



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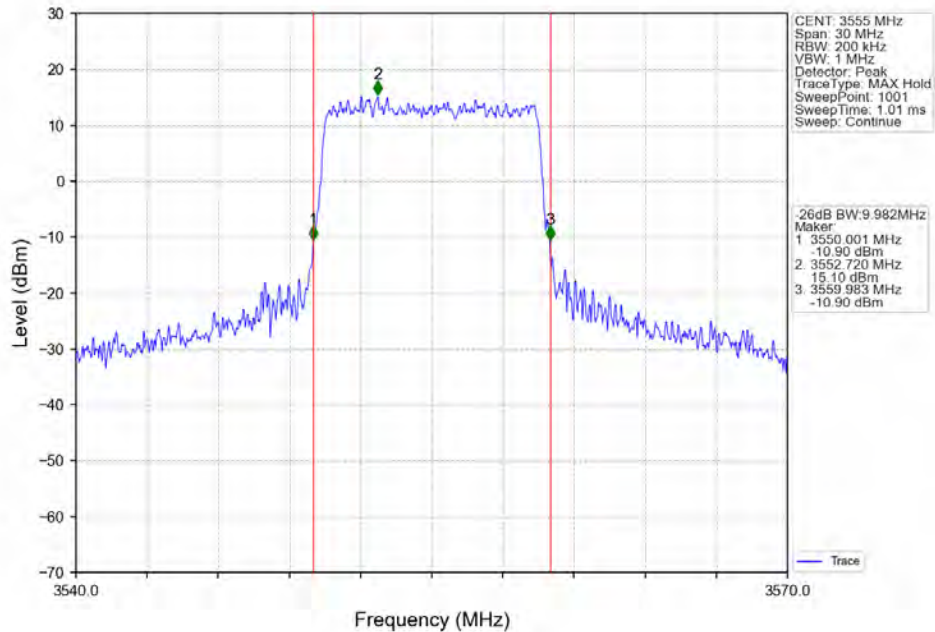
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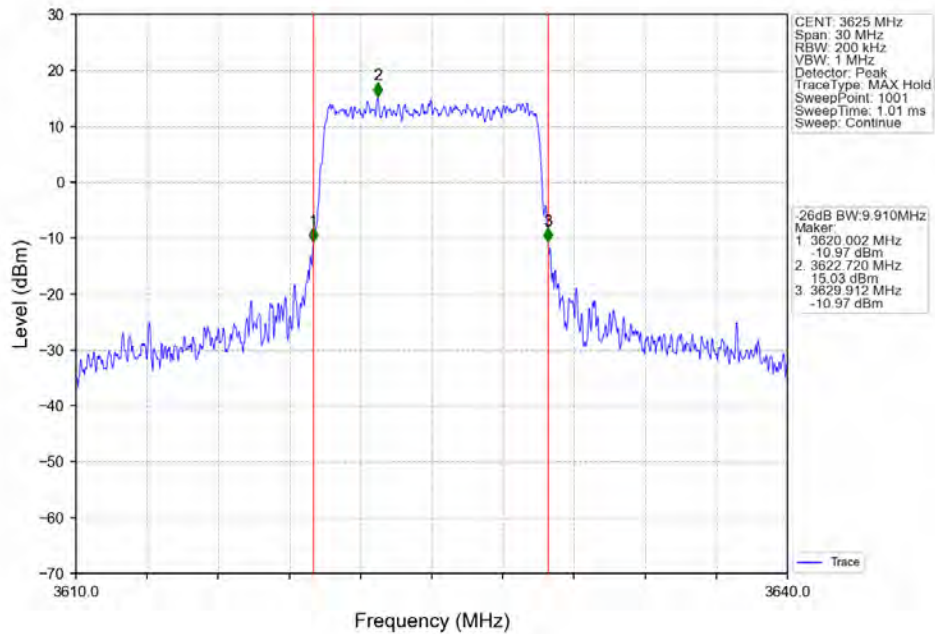
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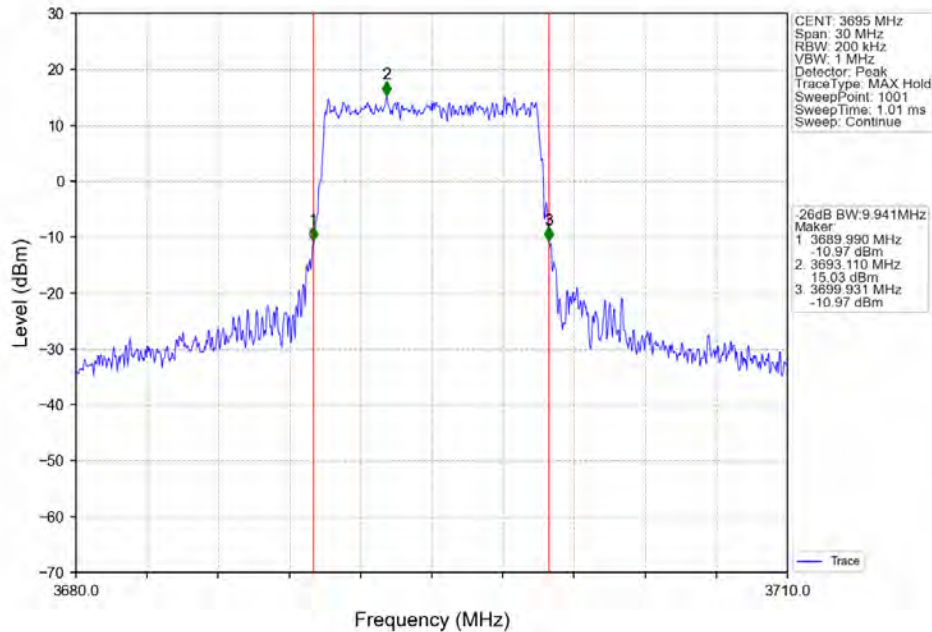
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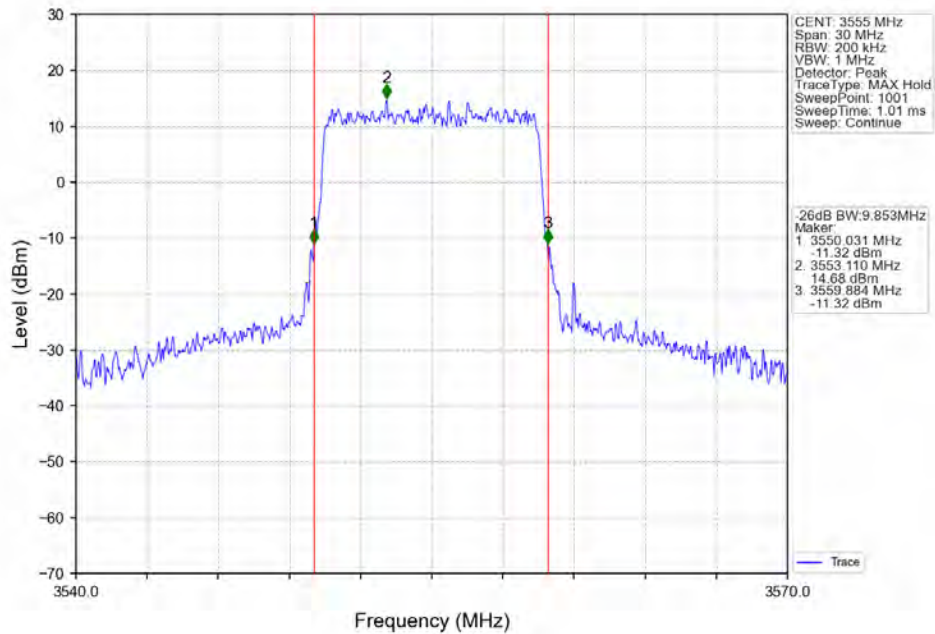
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Band48_10MHz_64QAM_MCH_3625MHz_RB_50_0_NTNV



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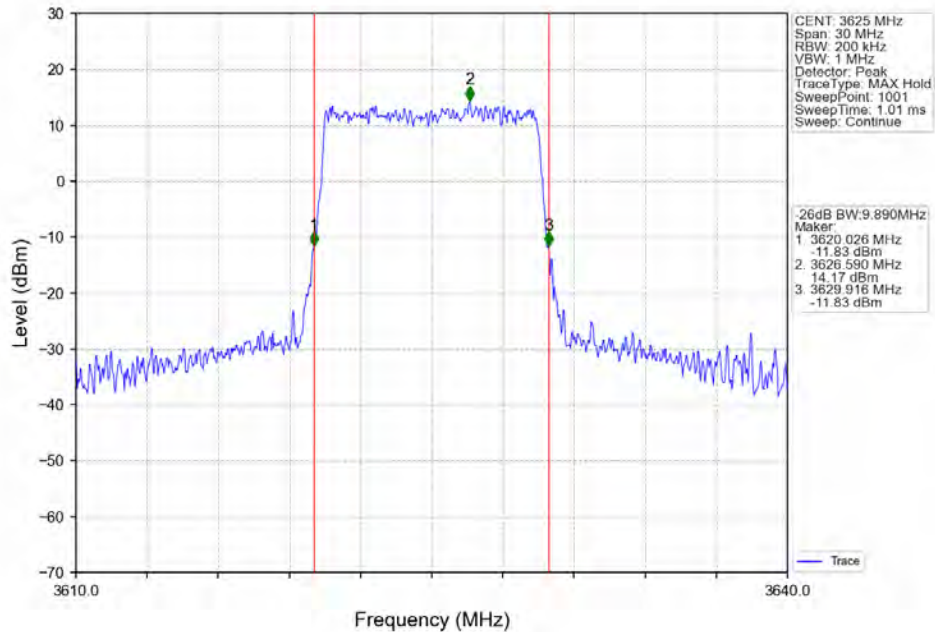
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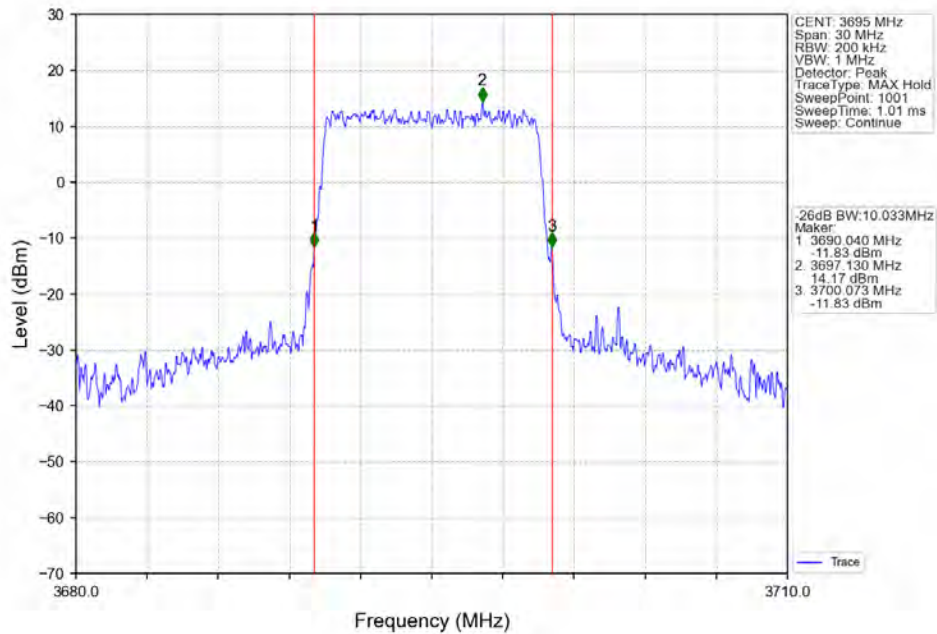
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Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTN



Band48 10MHz 256QAM LCH 3555MHz RB 50 0 NTN



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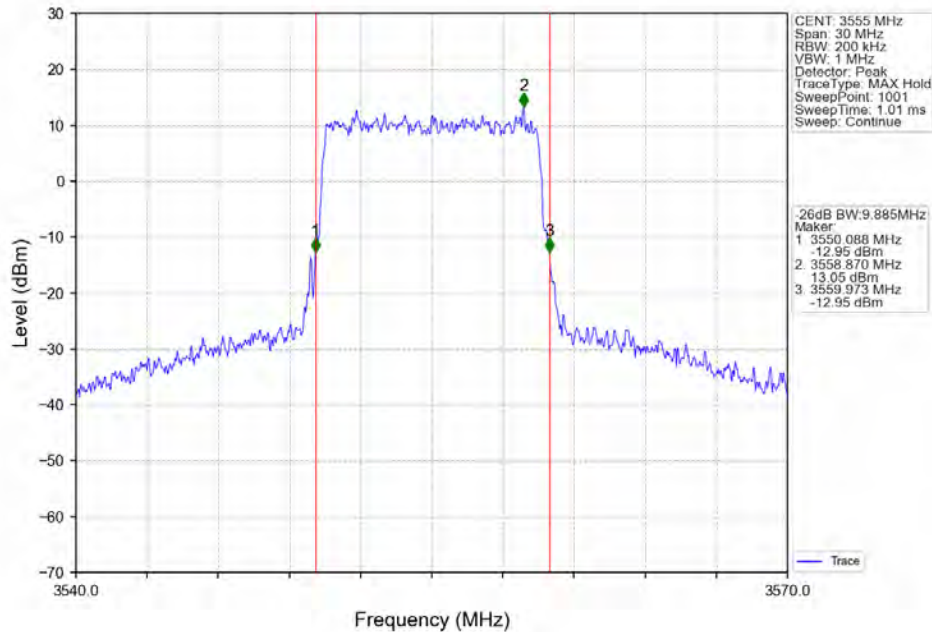
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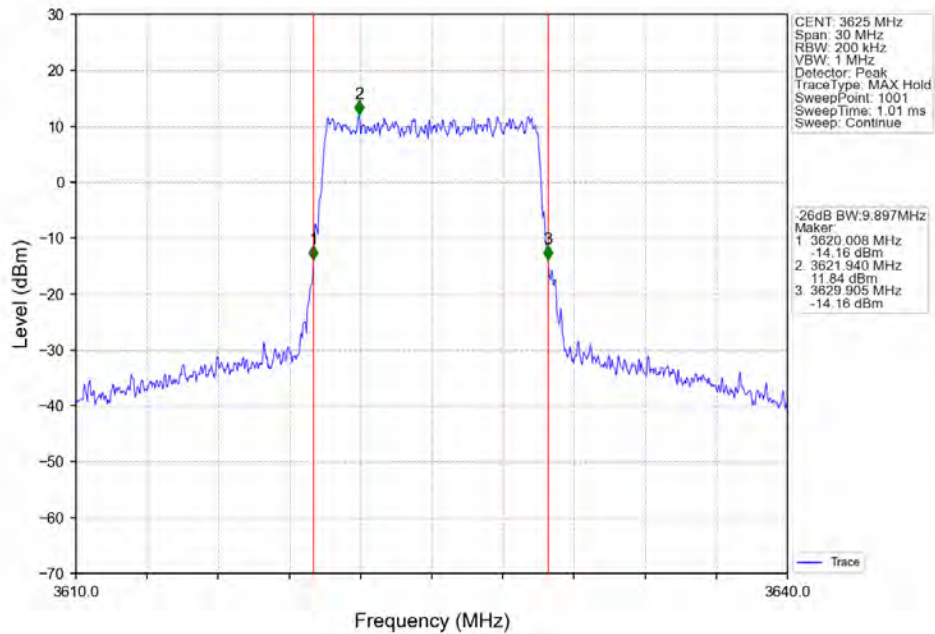
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Band48_10MHz_256QAM_HCH_3695MHz_RB_50_0_NTNV



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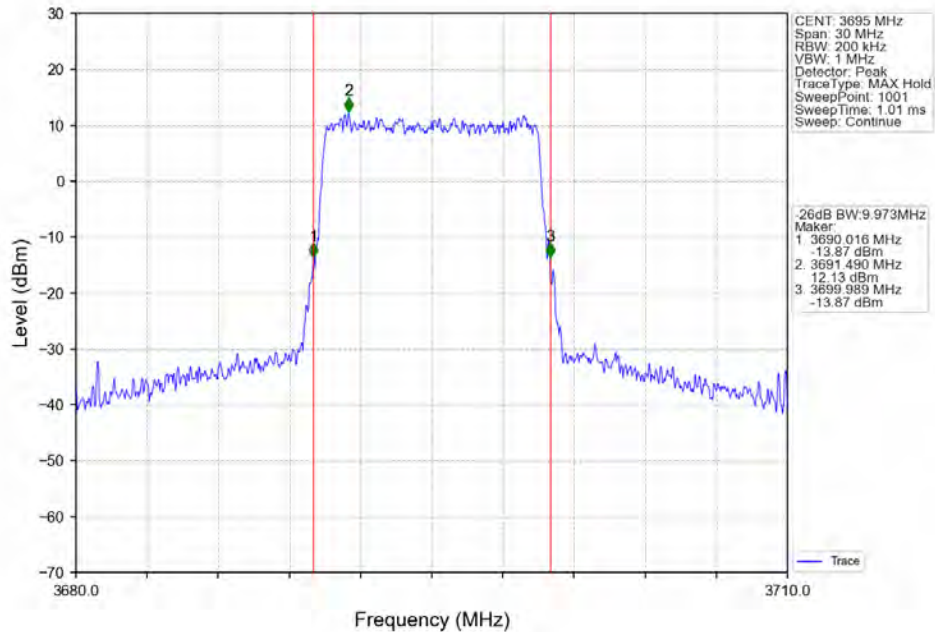
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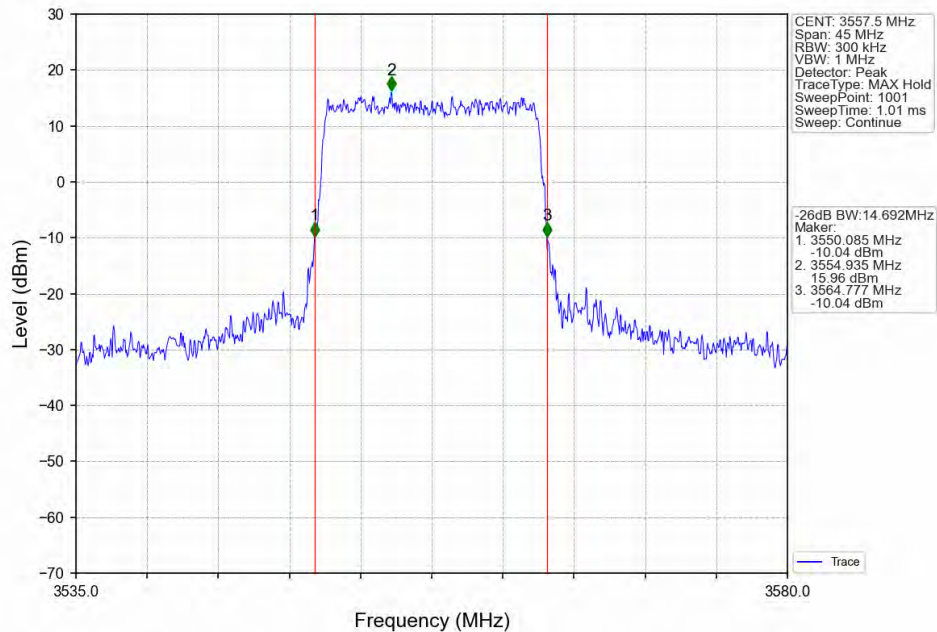
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Band48_15MHz_QPSK_MCH_3625MHz_RB_75_0_NTNV



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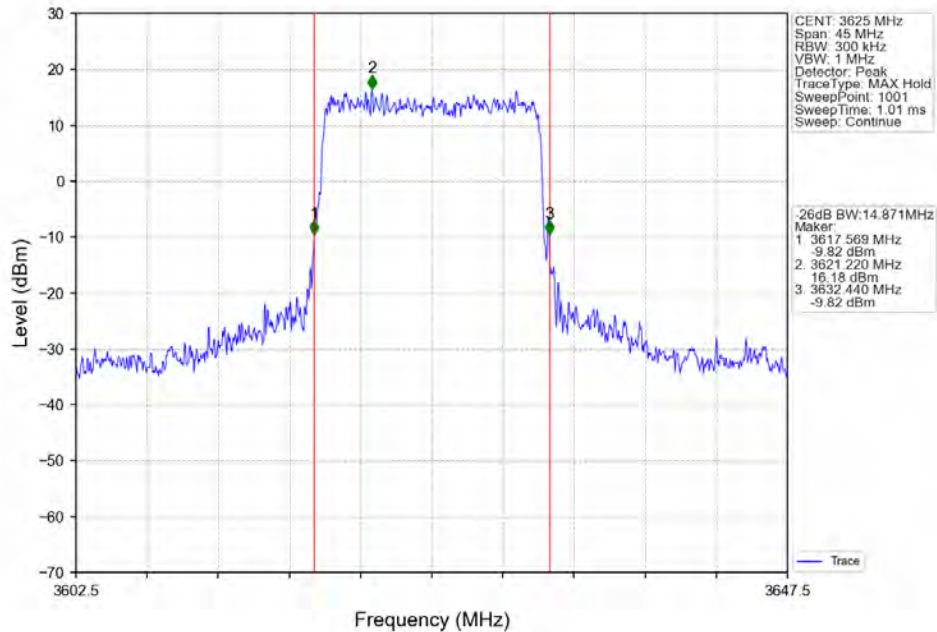
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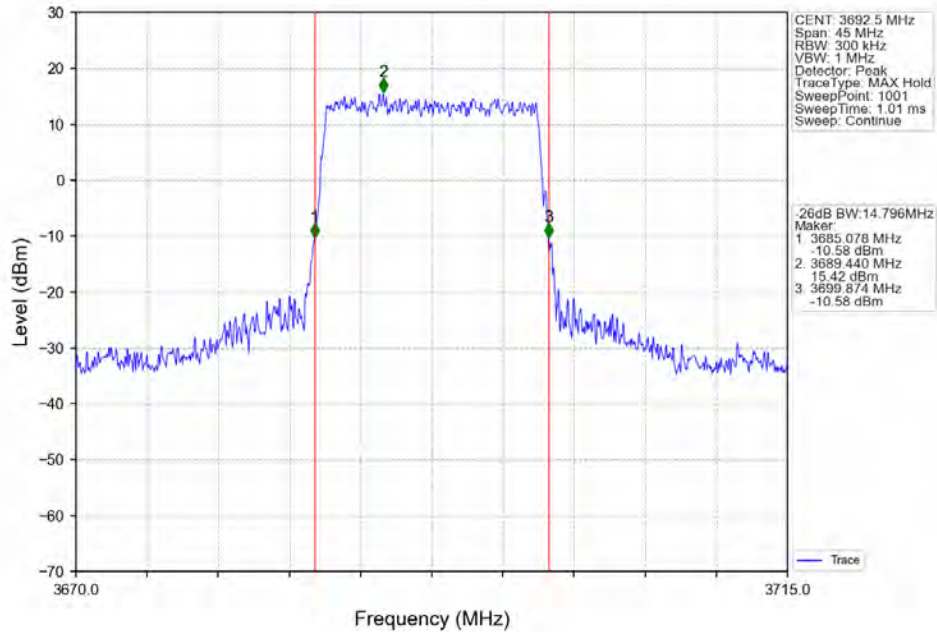
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Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



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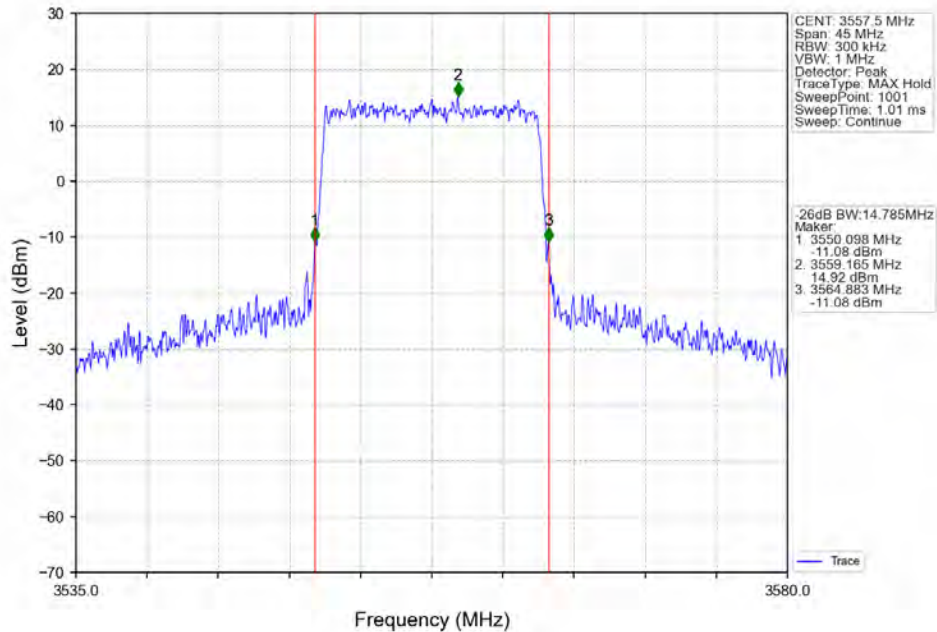
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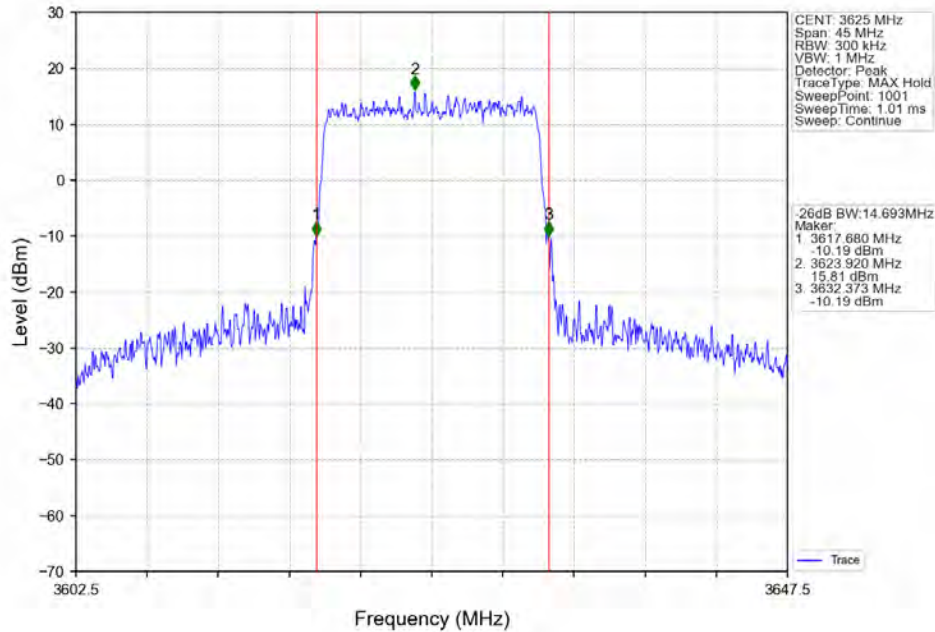
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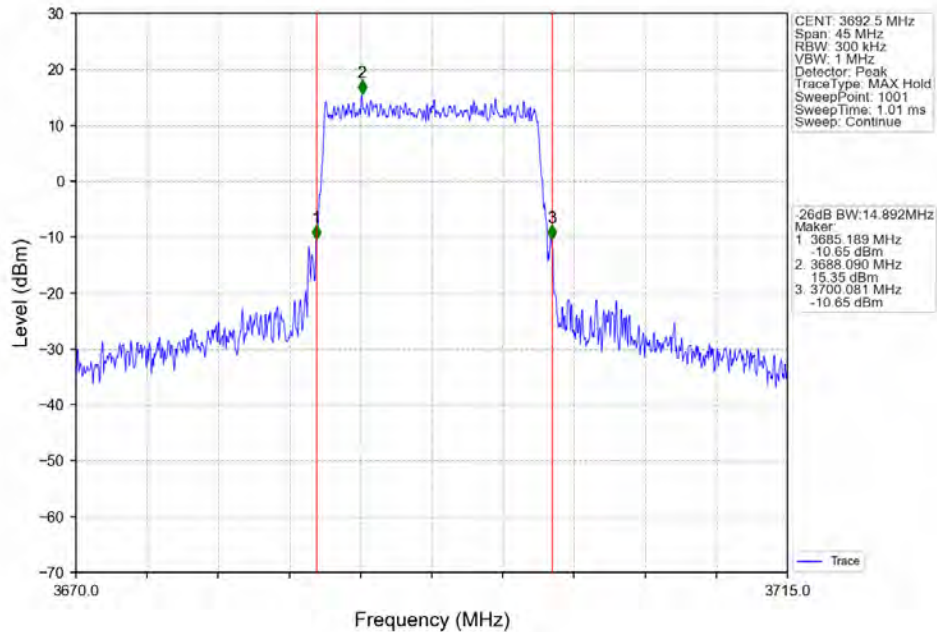
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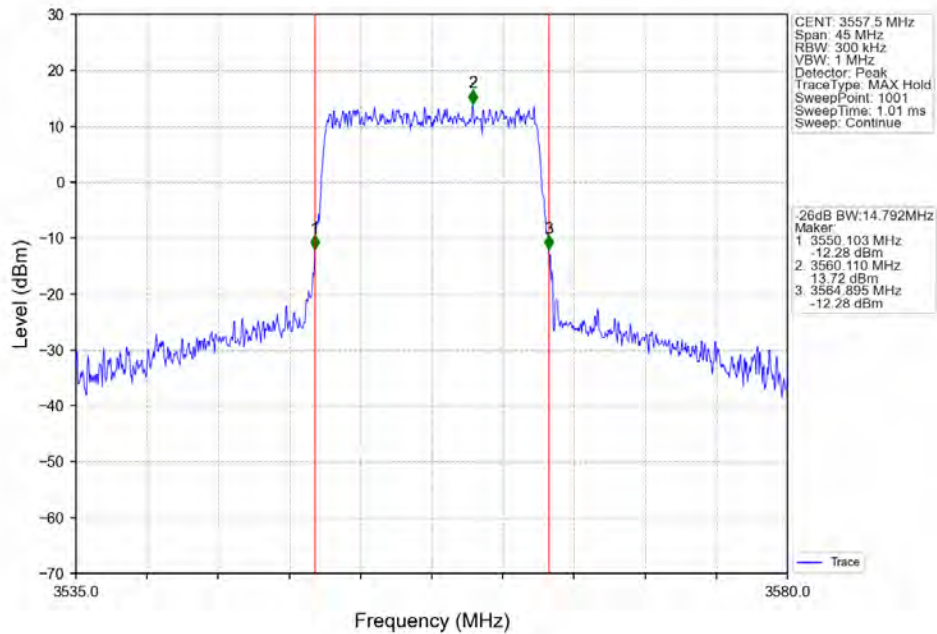
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Band48_15MHz_64QAM_MCH_3625MHz_RB_75_0_NTNV



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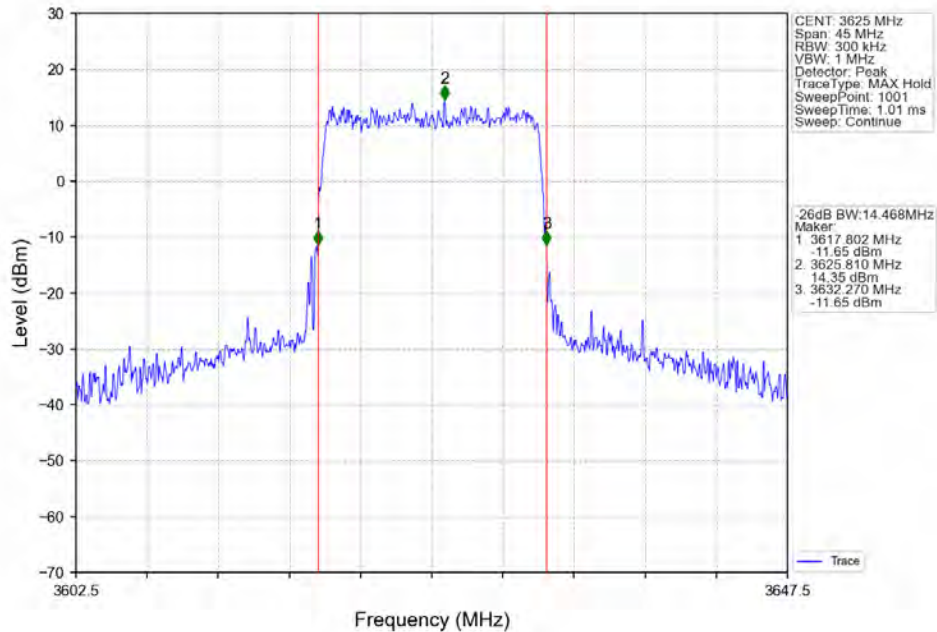
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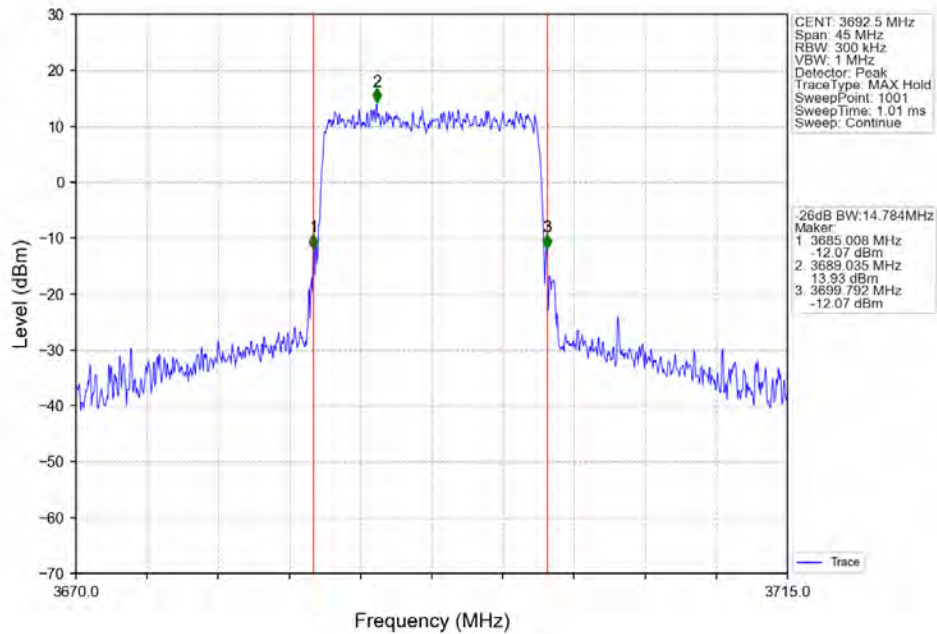
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Band48_15MHz_64QAM_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_256QAM_LCH_3557.5MHz_RB_75_0_NTNV



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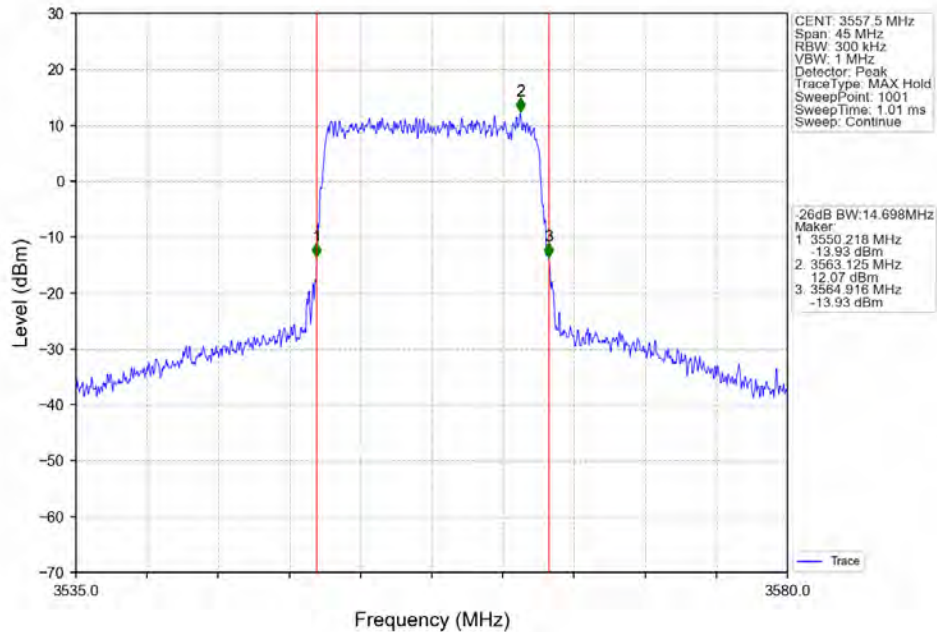
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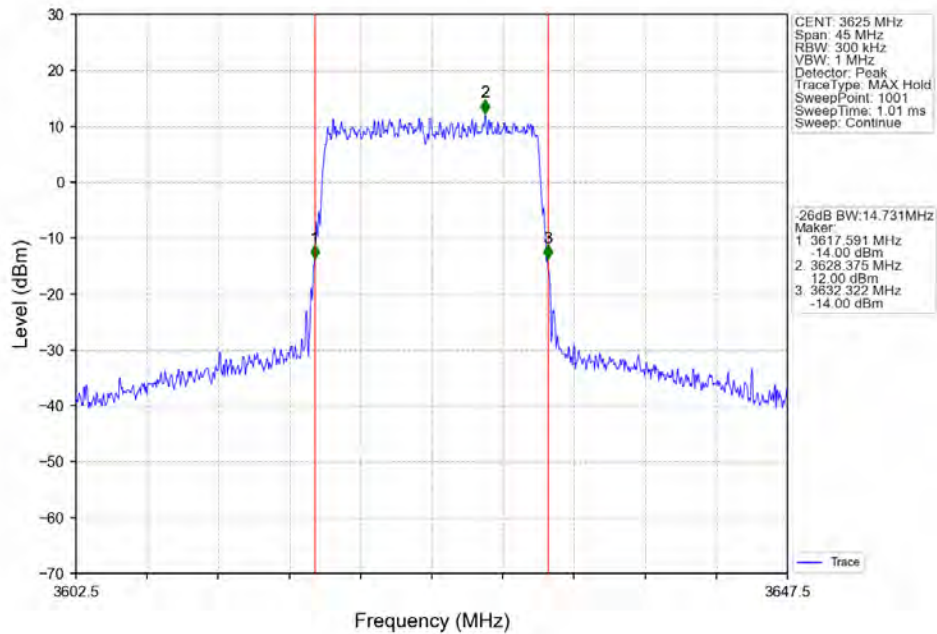
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Band48_15MHz_256QAM_HCH_3692.5MHz_RB_75_0_NTNV



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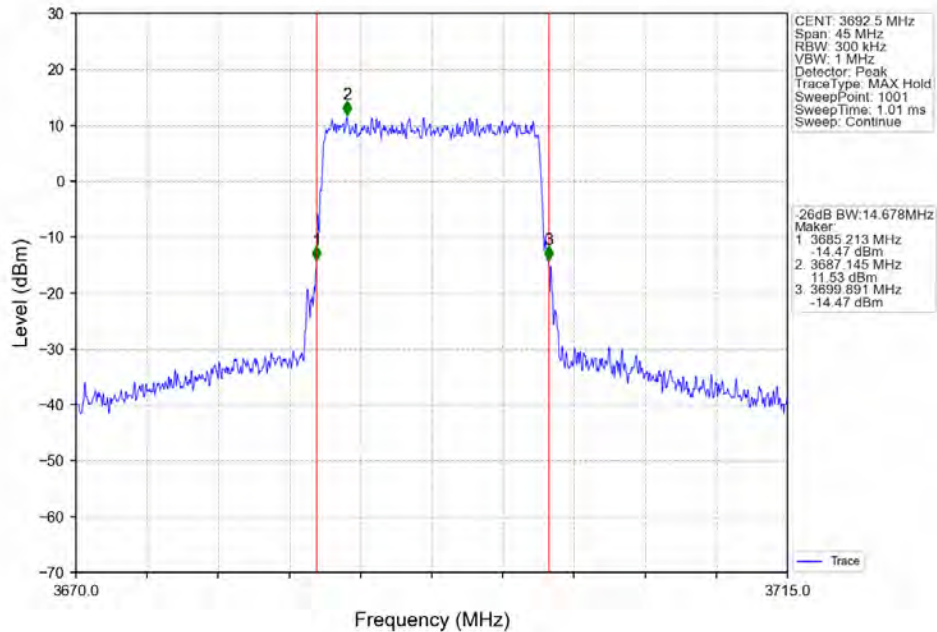
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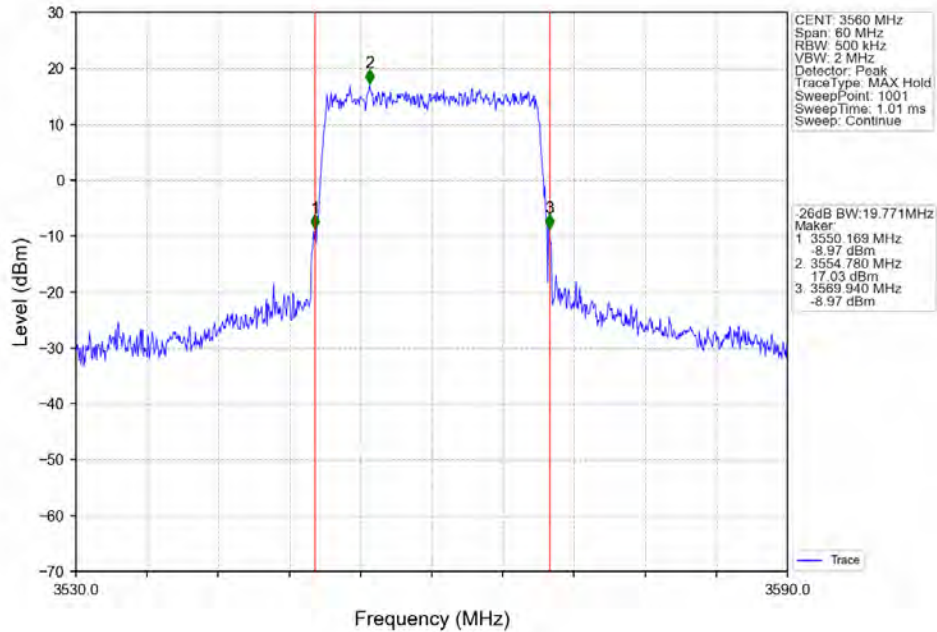
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Band48 20MHz QPSK LCH 3560MHz RB 100 0 NTN



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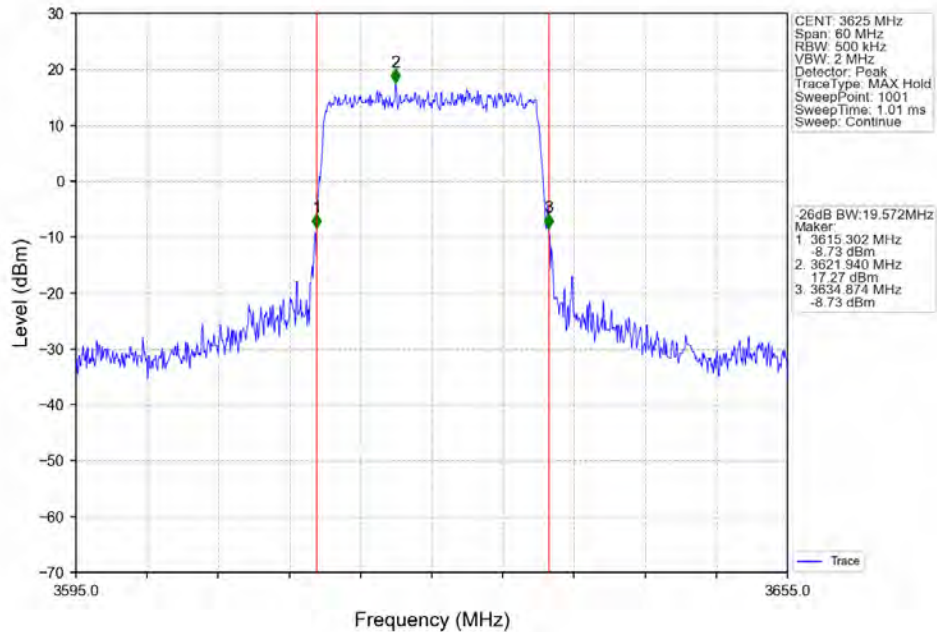
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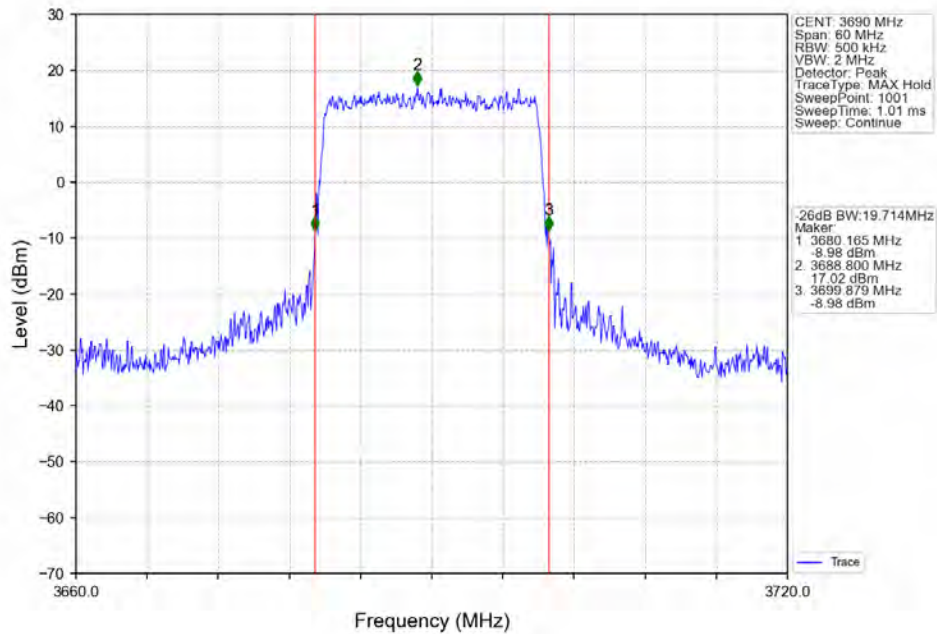
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Band48_20MHz_16QAM_LCH_3560MHz_RB_100_0_NTNV



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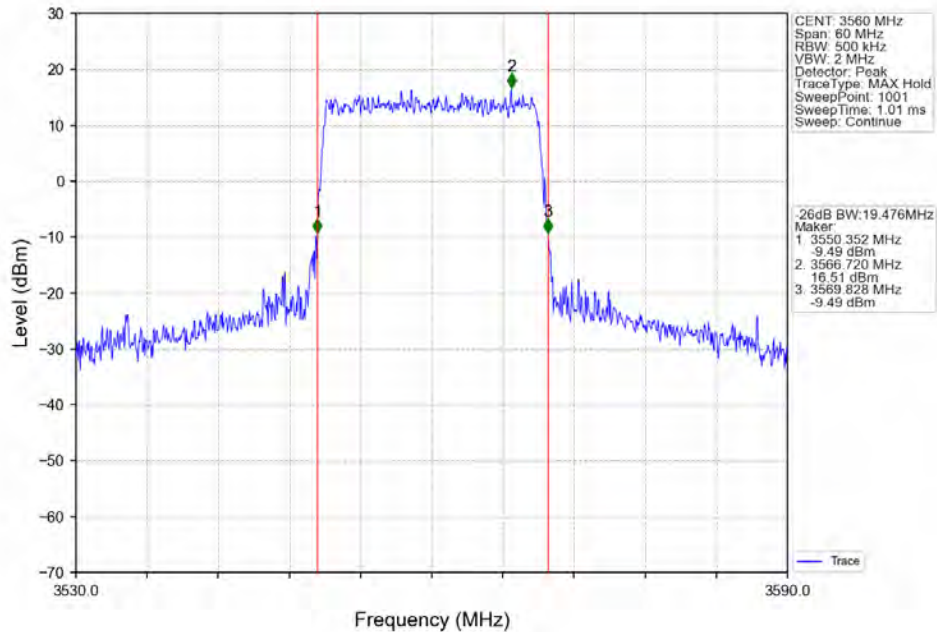
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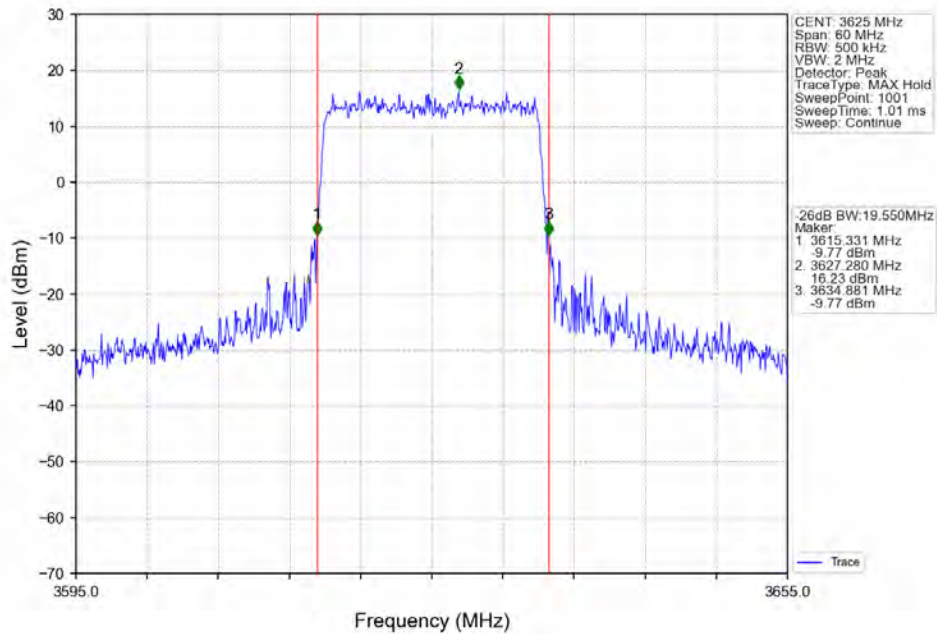
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Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV



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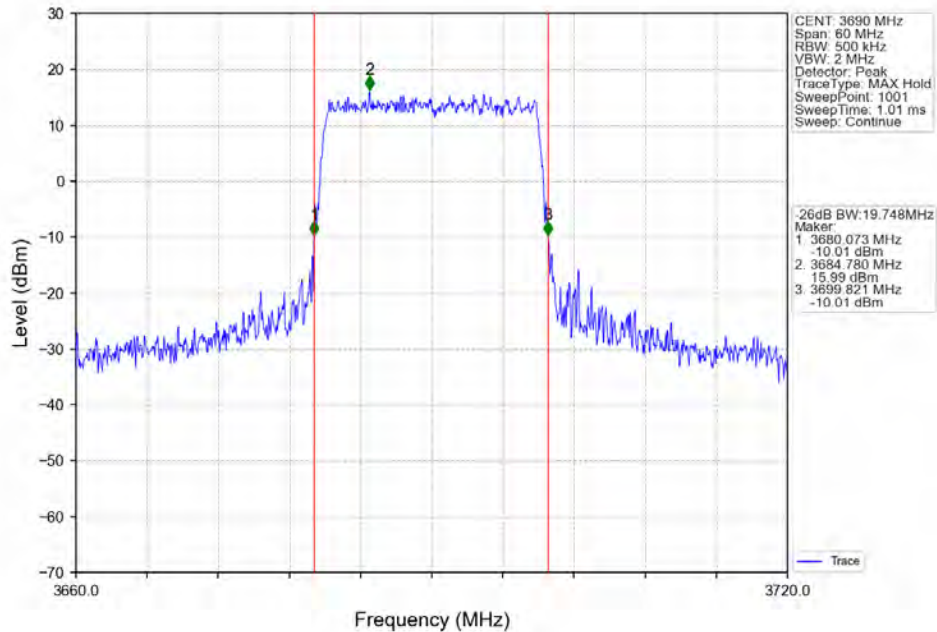
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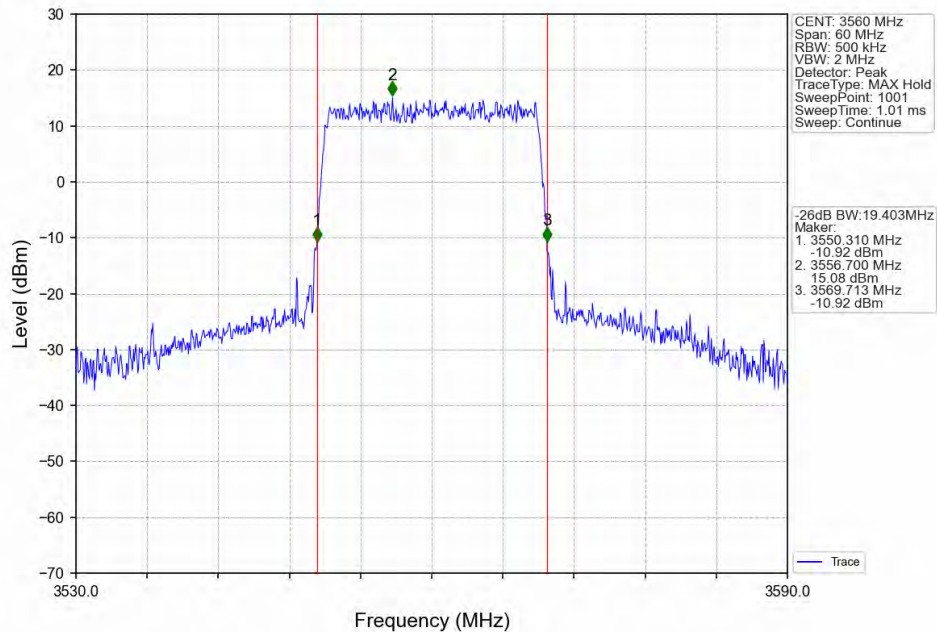
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Band48_20MHz_64QAM_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_64QAM_MCH_3625MHz_RB_100_0_NTNV



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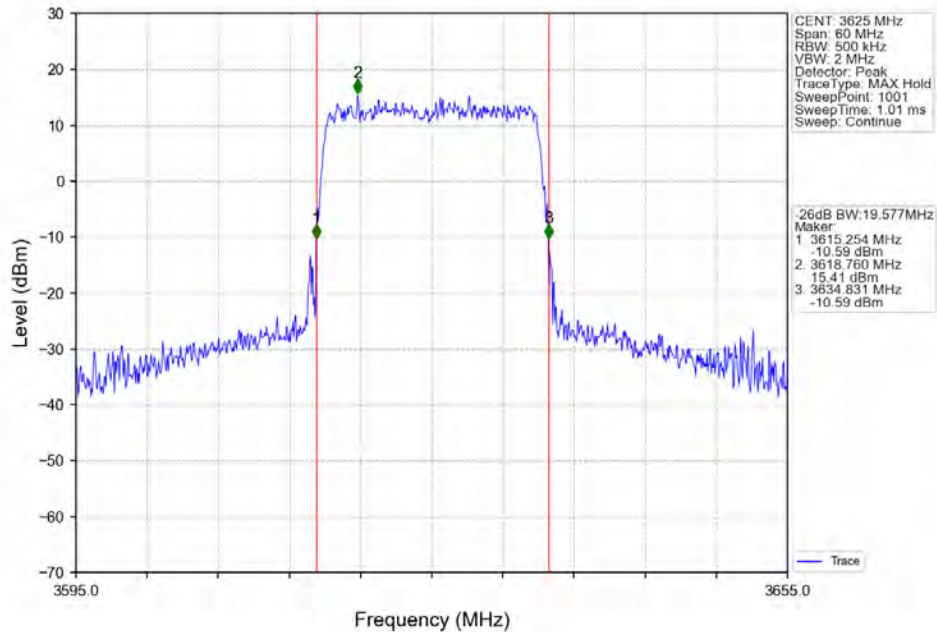
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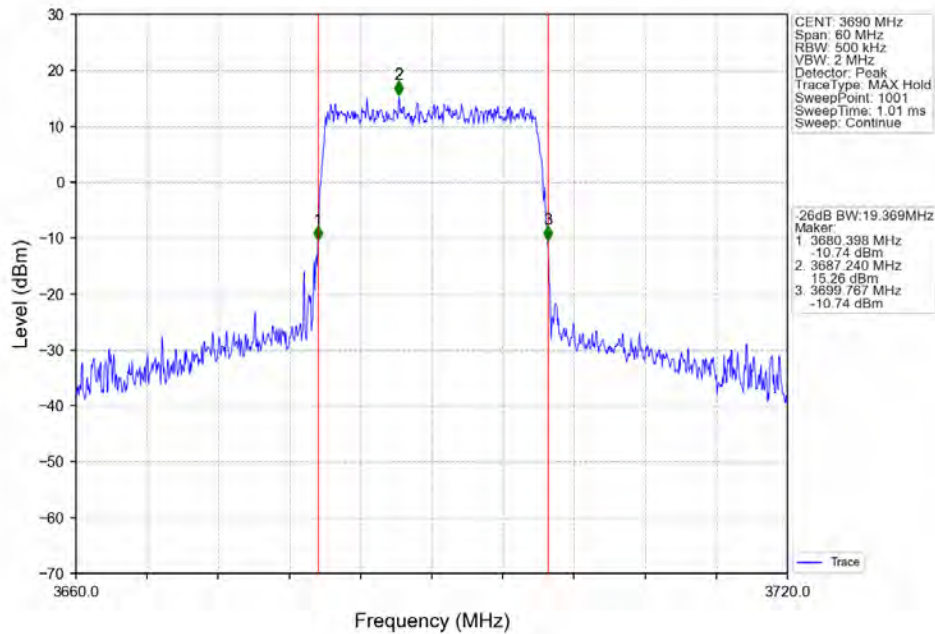
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Band48_20MHz_64QAM_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_256QAM_LCH_3560MHz_RB_100_0_NTNV



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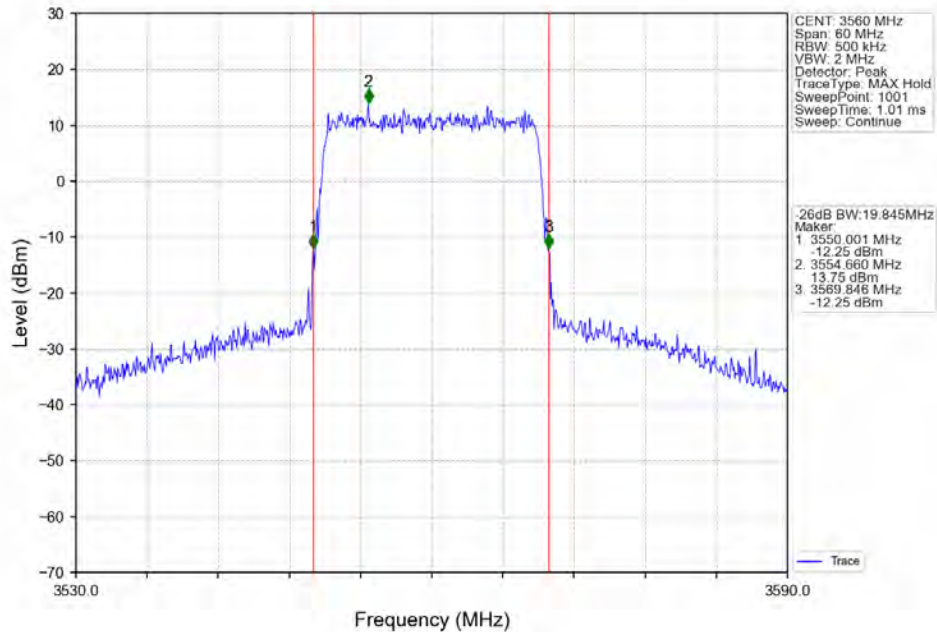
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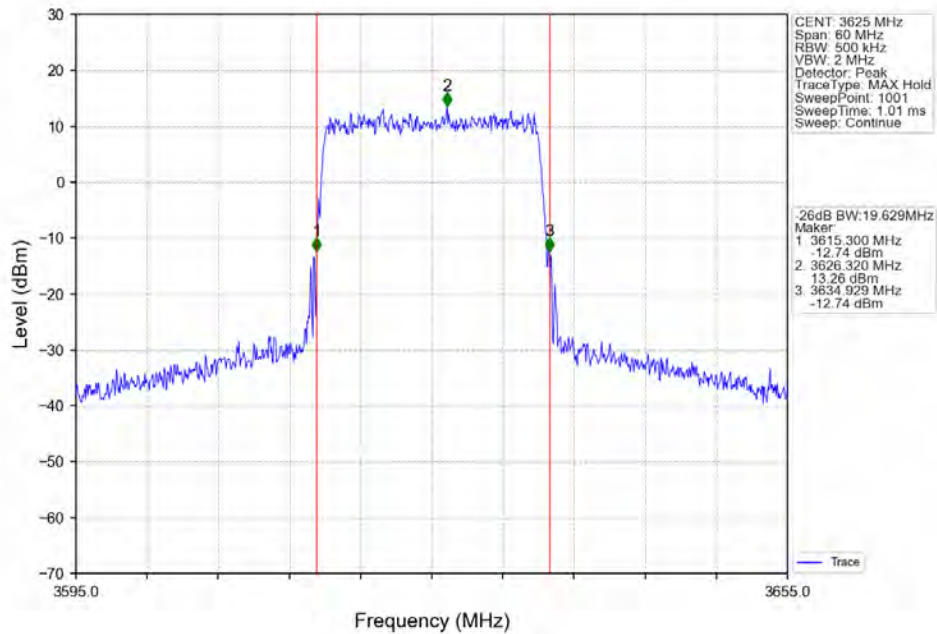
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Band48_20MHz_256QAM_MCH_3625MHz_RB_100_0_NTNV



Band48_20MHz_256QAM_HCH_3690MHz_RB_100_0_NTNV



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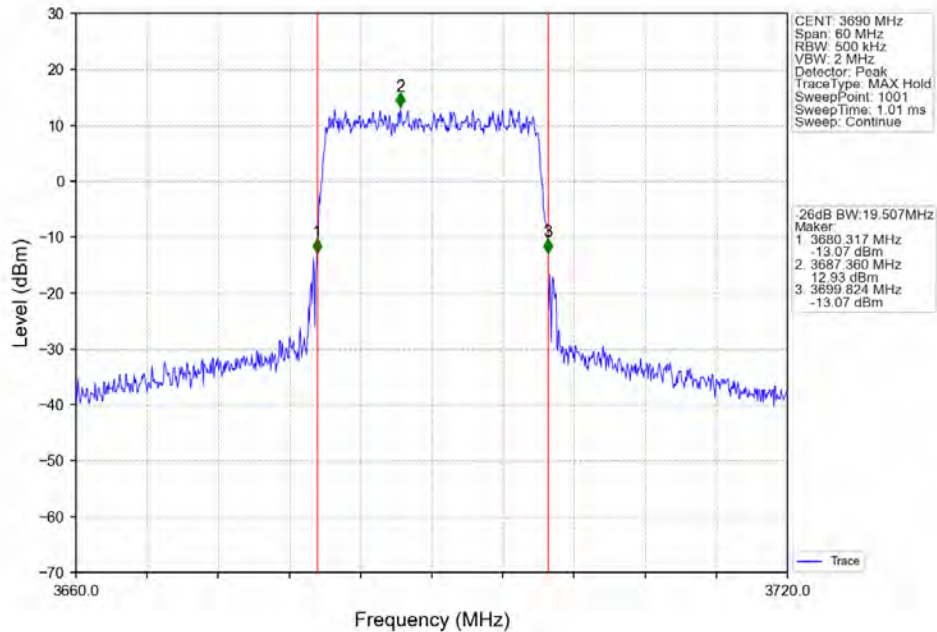
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4. Peak-Average Ratio

4.1 B48_5MHz

4.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	25	0	7.27	<=13	Pass
	3625	25	0	6.99	<=13	Pass
	3697.5	25	0	7.32	<=13	Pass
16QAM	3552.5	25	0	8.14	<=13	Pass
	3625	25	0	8.16	<=13	Pass
	3697.5	25	0	8.20	<=13	Pass
64QAM	3552.5	25	0	8.18	<=13	Pass
	3625	25	0	8.15	<=13	Pass
	3697.5	25	0	8.18	<=13	Pass
256QAM	3552.5	25	0	8.78	<=13	Pass
	3625	25	0	8.60	<=13	Pass
	3697.5	25	0	8.73	<=13	Pass



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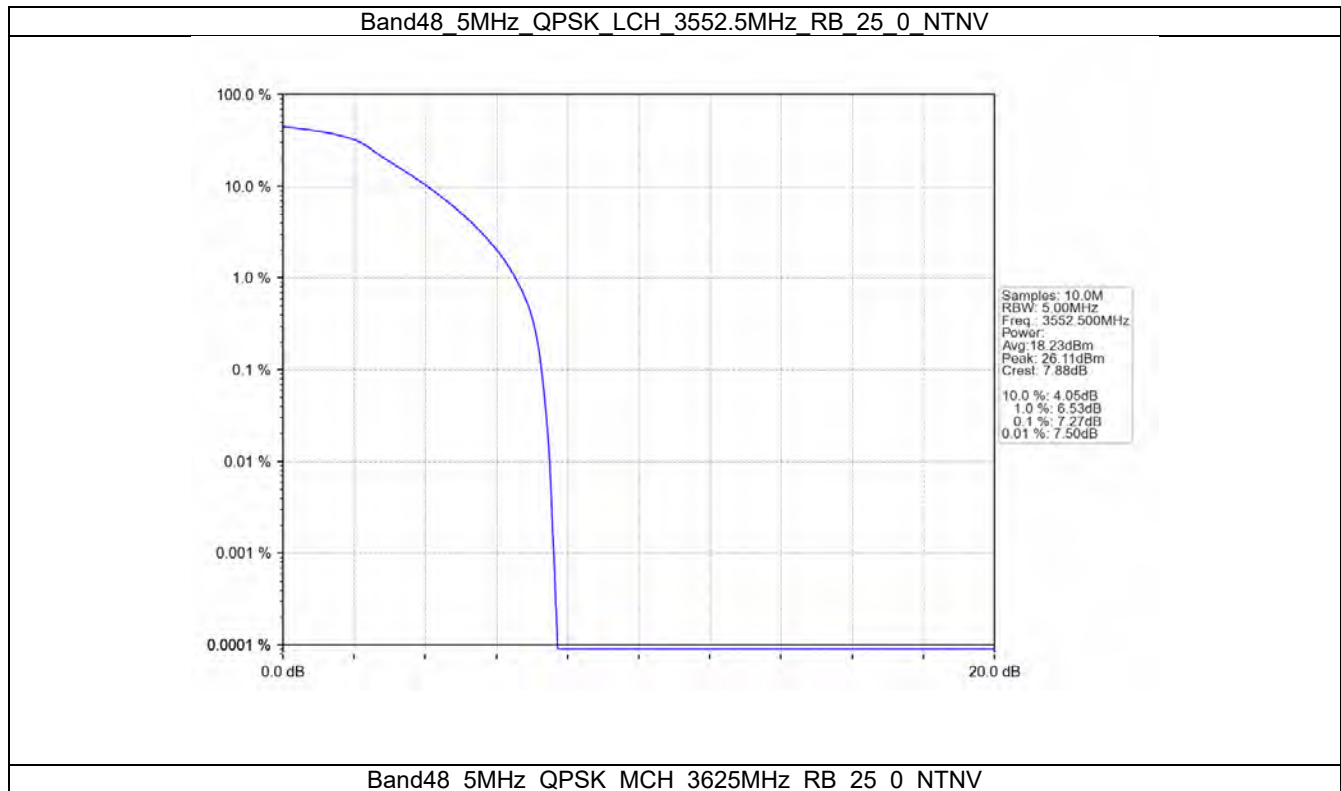
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4.1.2 Test Graph



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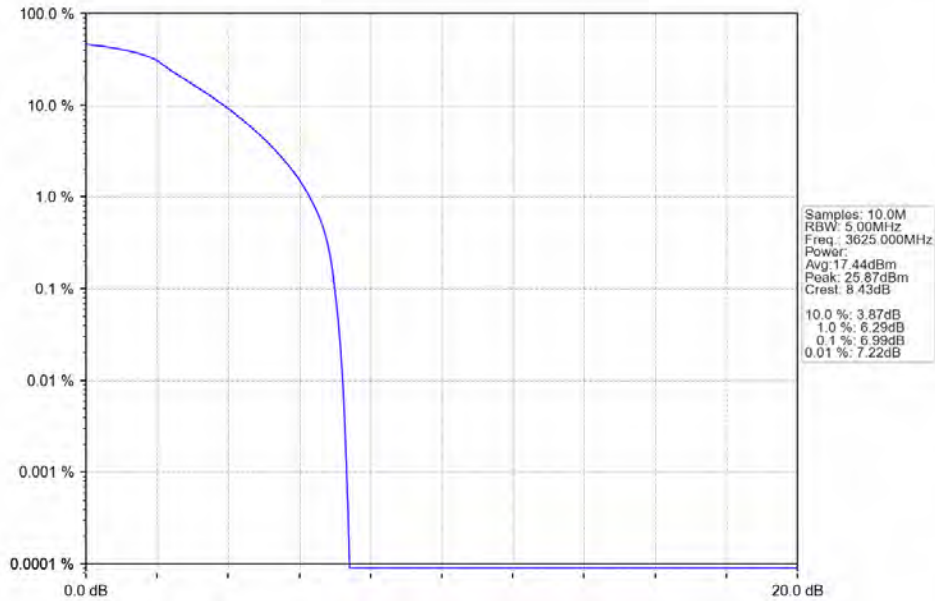
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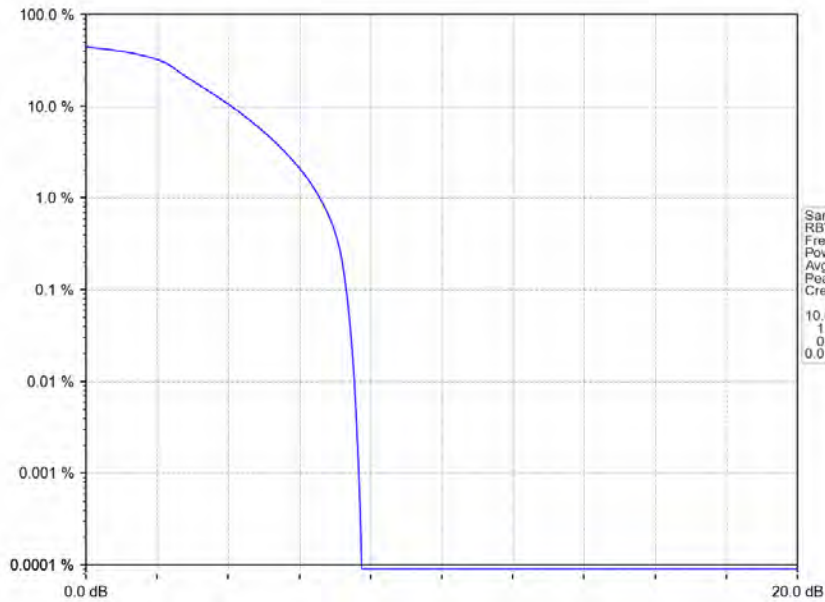
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Band48_5MHz_QPSK_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_LCH_3552.5MHz_RB_25_0_NTNV



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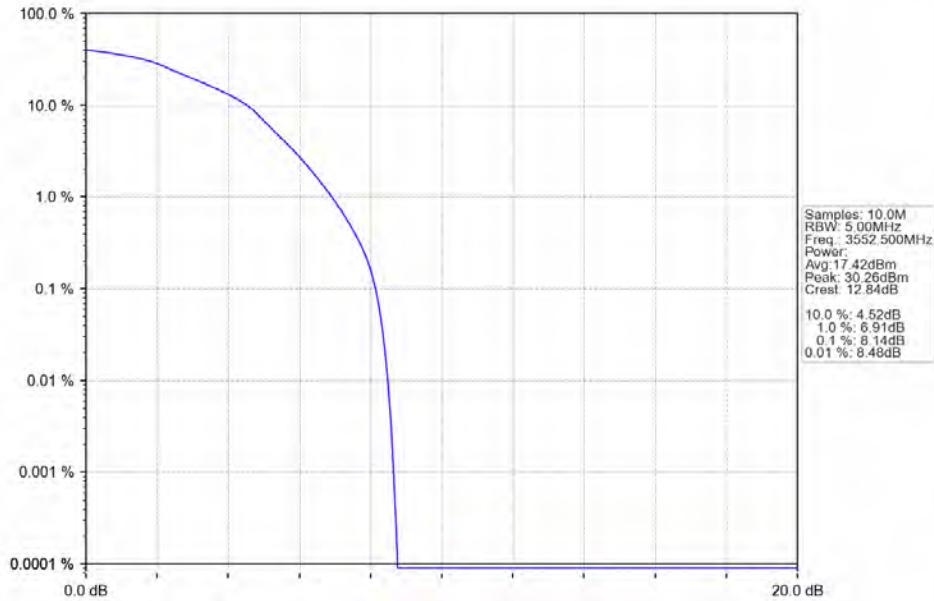
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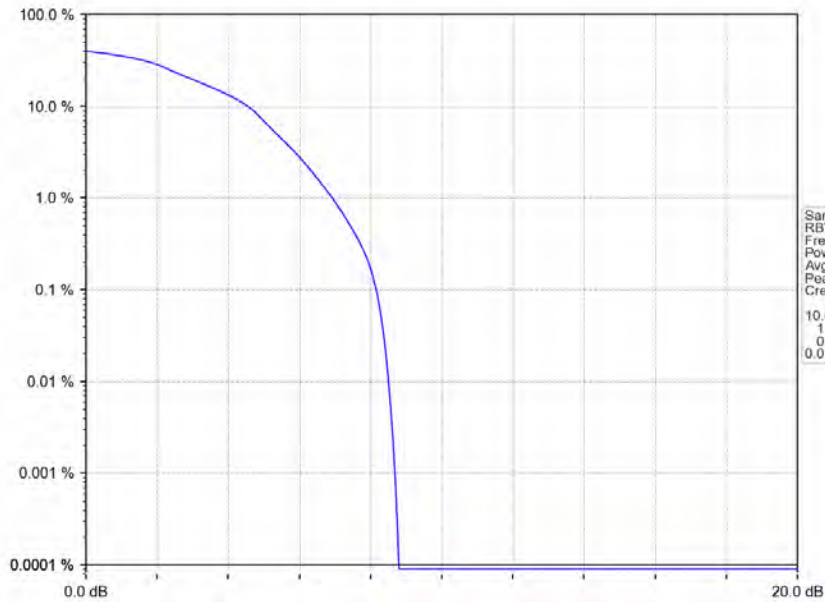
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Band48_5MHz_16QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_16QAM_HCH_3697.5MHz_RB_25_0_NTNV



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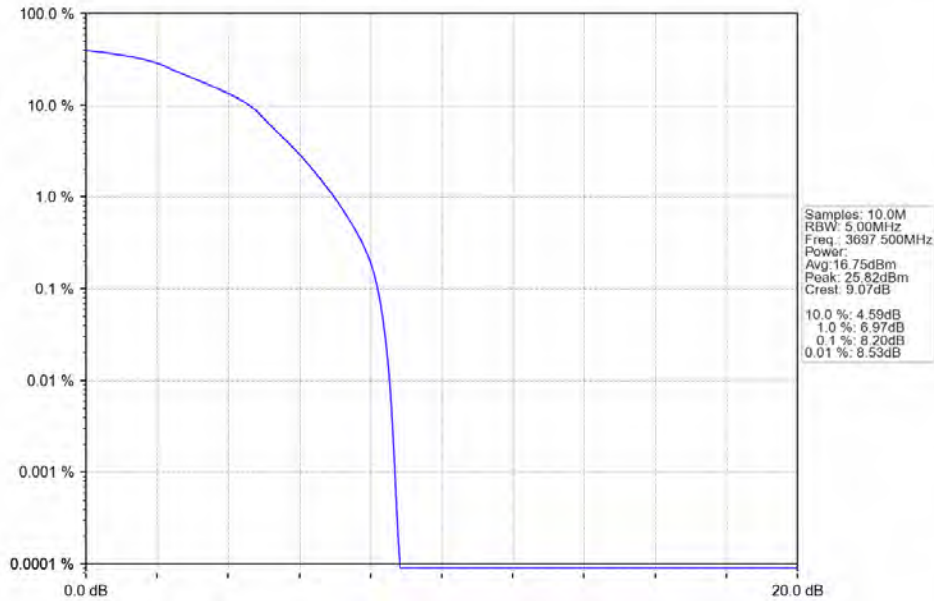
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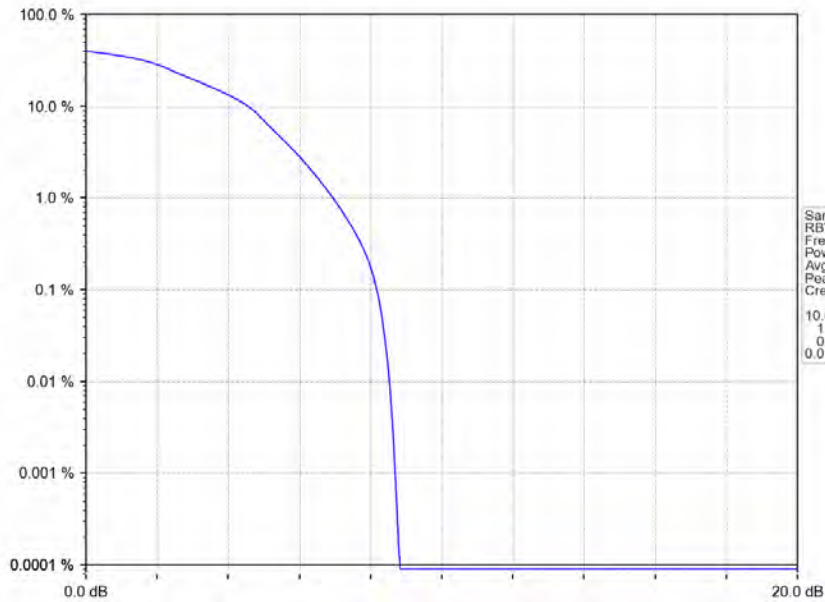
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Band48_5MHz_64QAM_LCH_3552.5MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 3552.500MHz
Power:
Avg: 17.40dBm
Peak: 28.59dBm
Crest: 11.19dB
10.0%: 4.55dB
1.0%: 6.94dB
0.1%: 8.18dB
0.01%: 8.53dB

Band48_5MHz_64QAM_MCH_3625MHz_RB_25_0_NTNV



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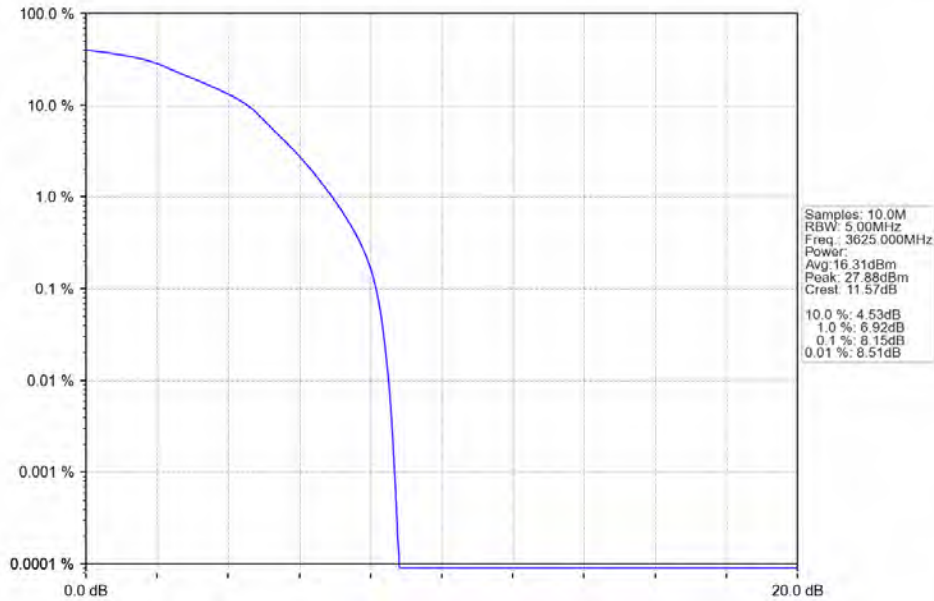
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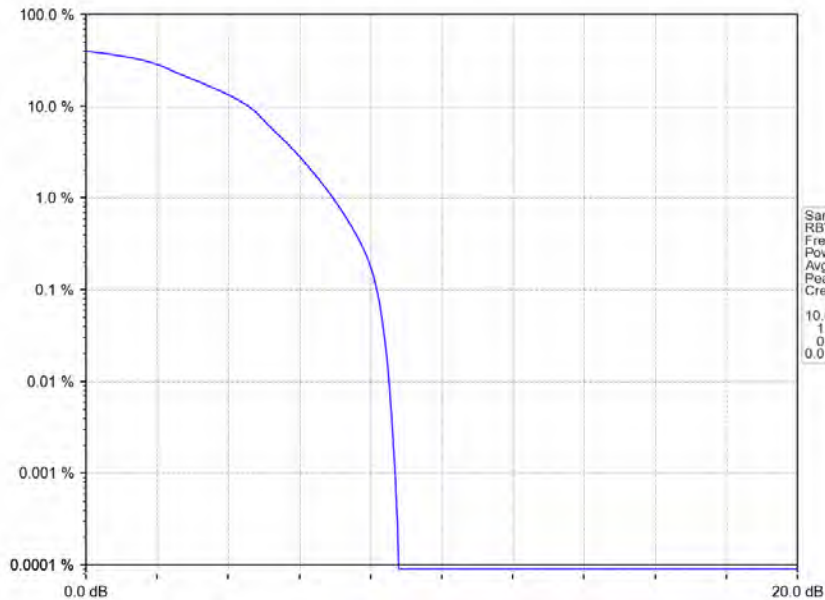
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Band48_5MHz_64QAM_HCH_3697.5MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_LCH_3552.5MHz_RB_25_0_NTNV



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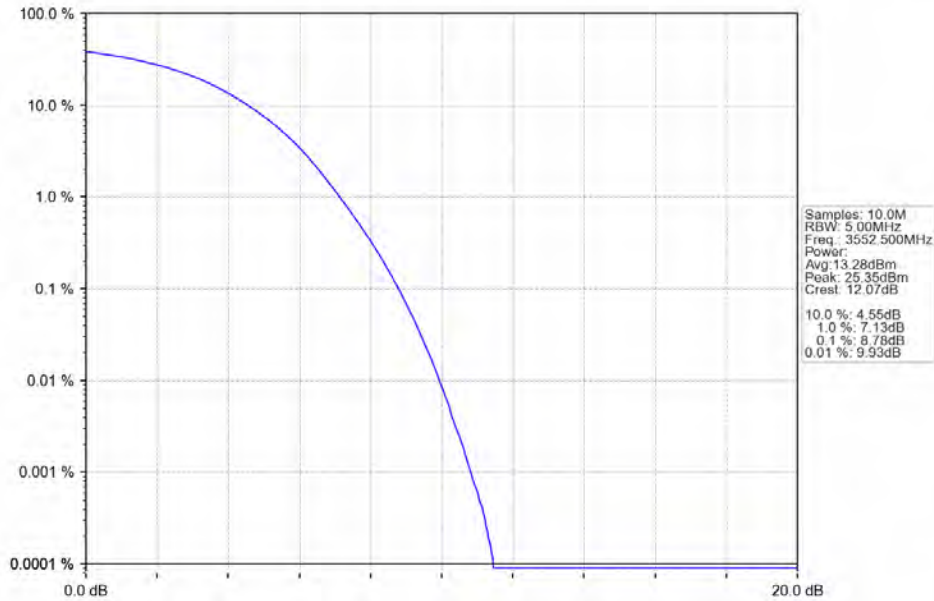
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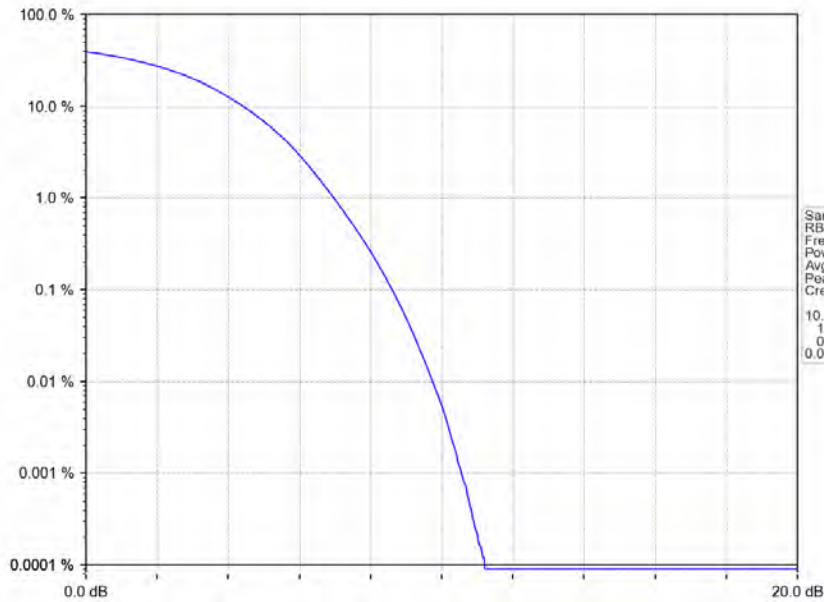
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Band48_5MHz_256QAM_MCH_3625MHz_RB_25_0_NTNV



Band48_5MHz_256QAM_HCH_3697.5MHz_RB_25_0_NTNV



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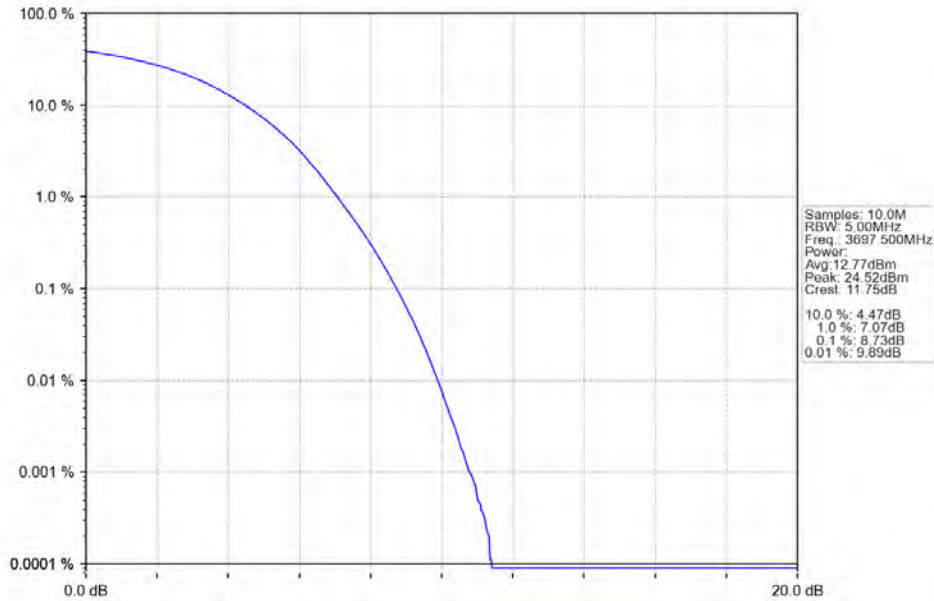
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4.2 B48_10MHz

4.2.1 Test Result

Band: 48 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3555	50	0	7.15	<=13	Pass
	3625	50	0	7.12	<=13	Pass
	3695	50	0	6.97	<=13	Pass
16QAM	3555	50	0	8.11	<=13	Pass
	3625	50	0	8.21	<=13	Pass
	3695	50	0	8.06	<=13	Pass
64QAM	3555	50	0	8.12	<=13	Pass
	3625	50	0	8.11	<=13	Pass
	3695	50	0	8.06	<=13	Pass
256QAM	3555	50	0	8.53	<=13	Pass
	3625	50	0	8.57	<=13	Pass
	3695	50	0	8.67	<=13	Pass



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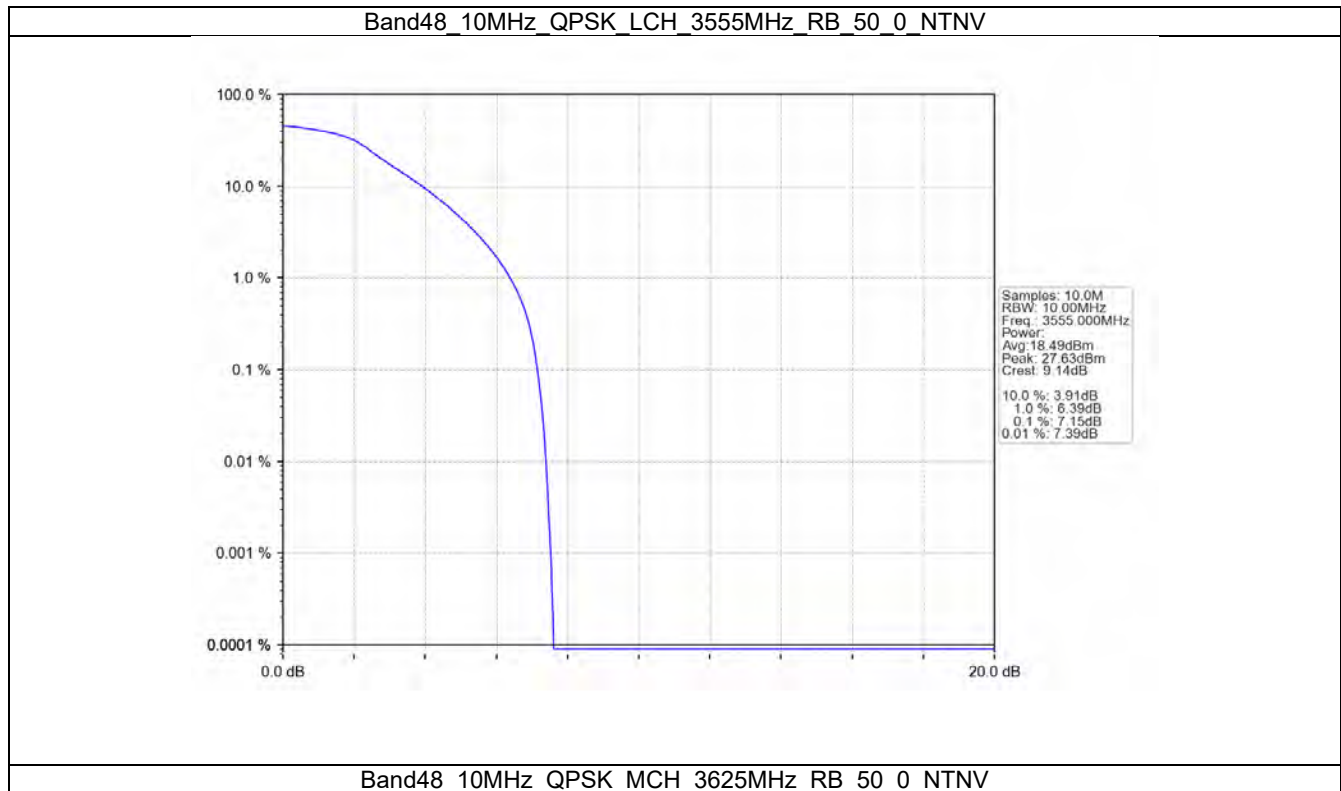
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4.2.2 Test Graph



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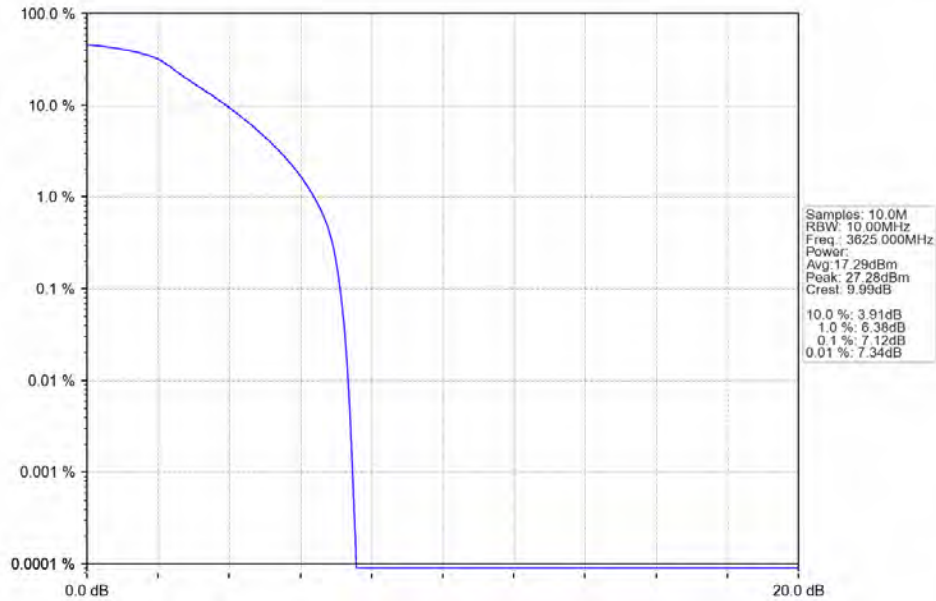
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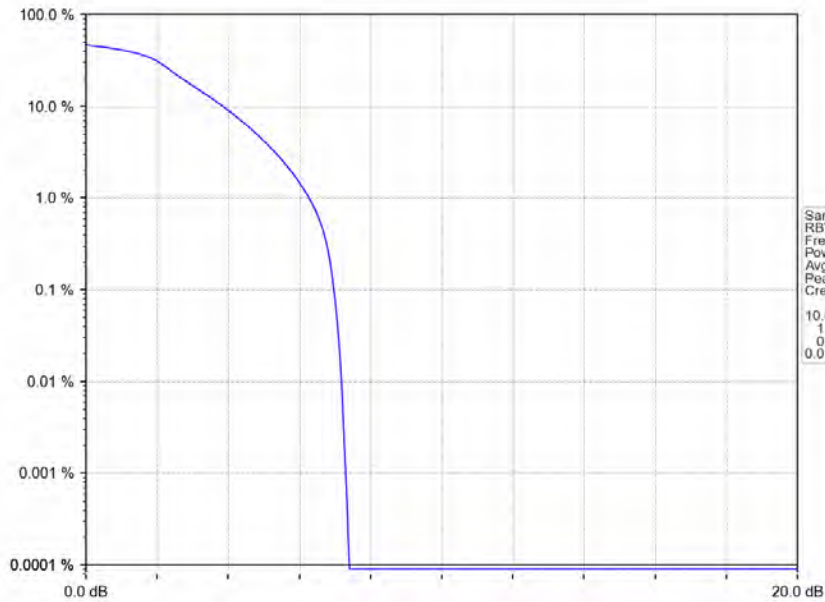
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Band48_10MHz_QPSK_HCH_3695MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 3695.000MHz
Power:
Avg: 17.86dBm
Peak: 25.58dBm
Crest: 7.72dB
10.0%: 3.84dB
1.0%: 6.27dB
0.1%: 6.97dB
0.01%: 7.18dB

Band48_10MHz_16QAM_LCH_3555MHz_RB_50_0_NTNV



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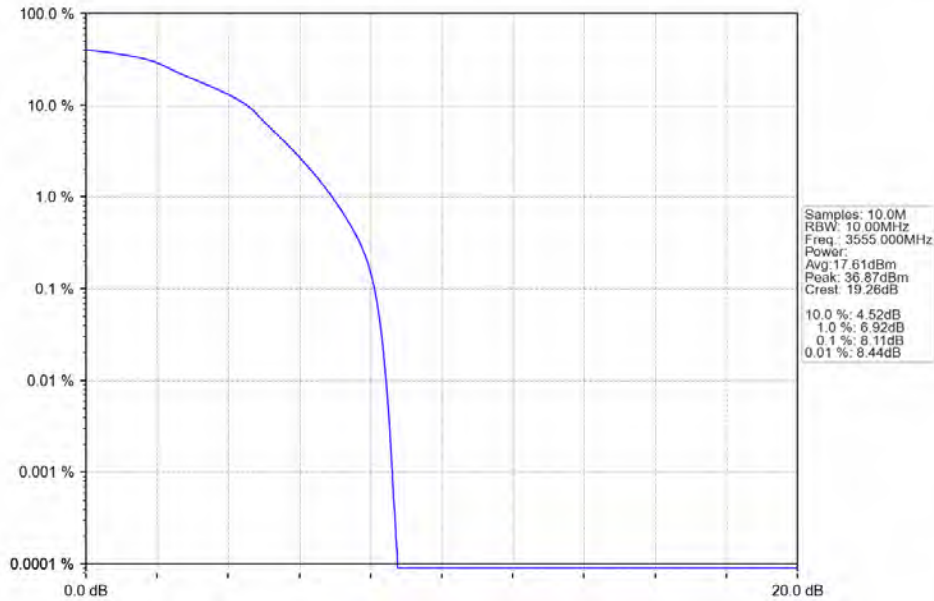
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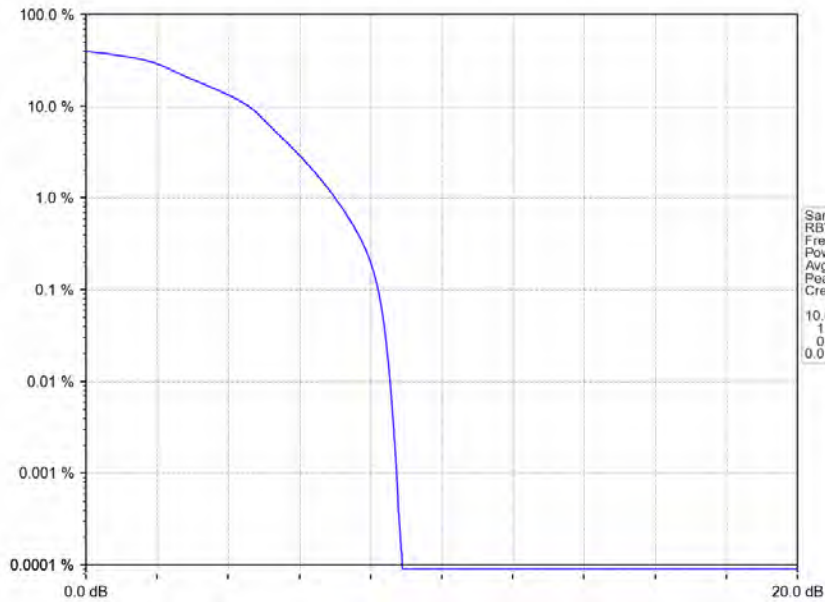
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Band48 10MHz 16QAM MCH 3625MHz RB 50 0 NTN



Band48 10MHz 16QAM HCH 3695MHz RB 50 0 NTN



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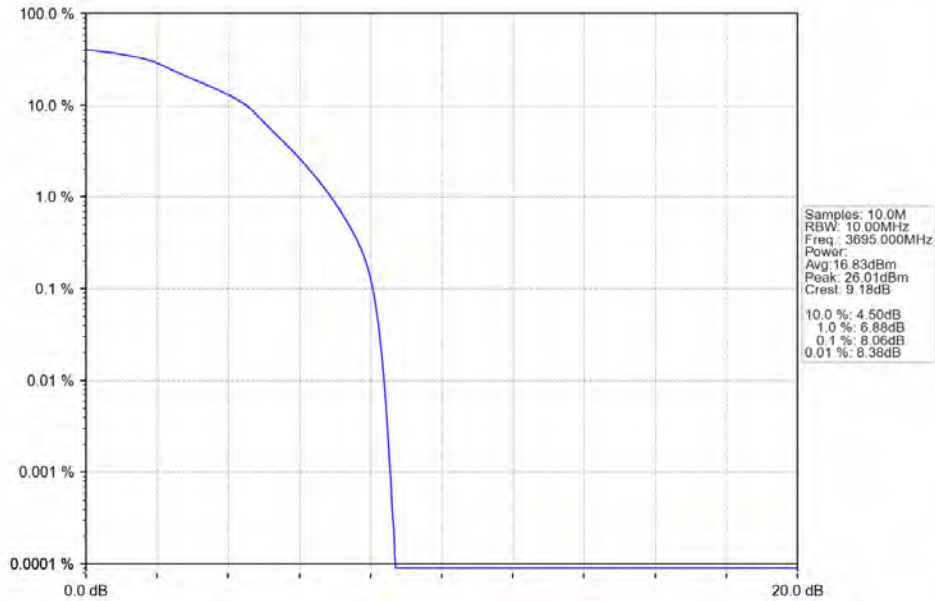
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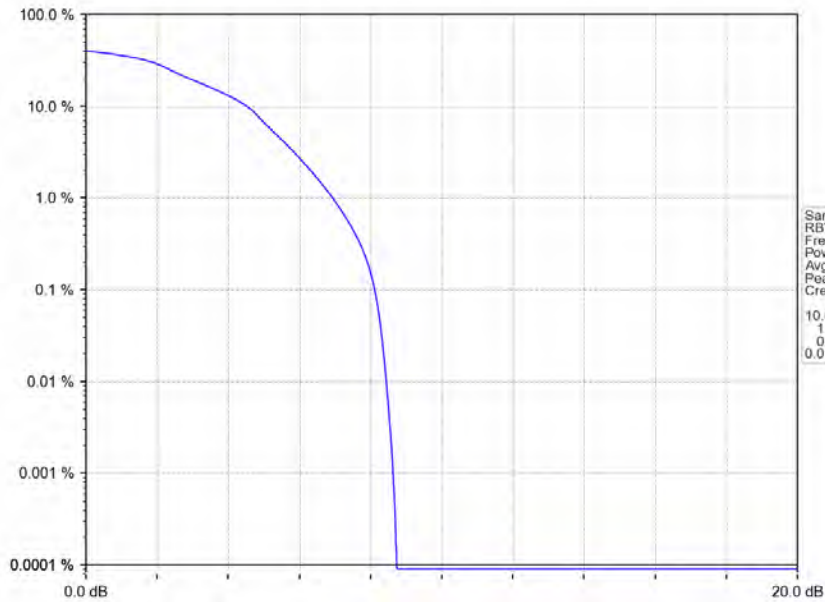
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Band48 10MHz 64QAM LCH 3555MHz RB 50 0 NTN



Band48 10MHz 64QAM MCH 3625MHz RB 50 0 NTN



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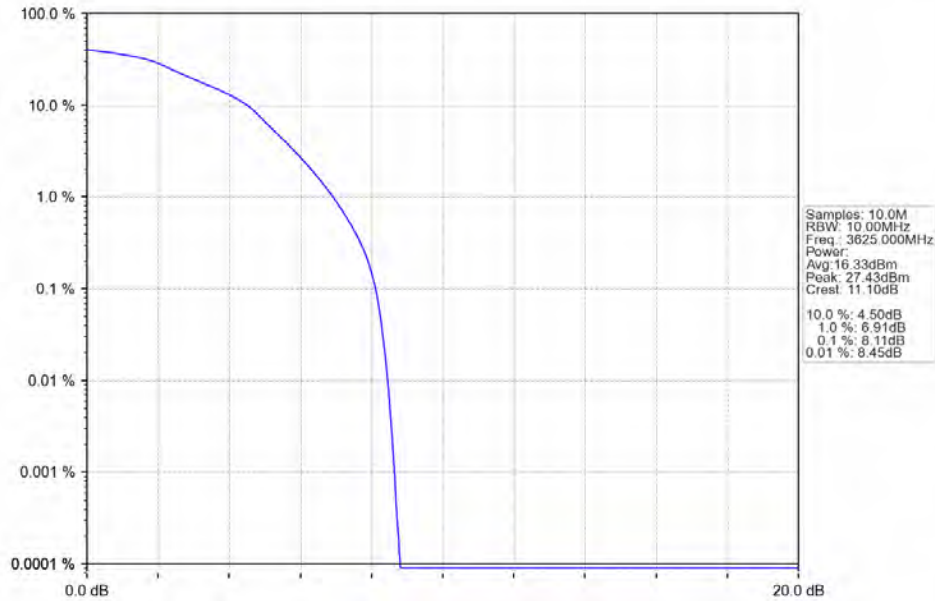
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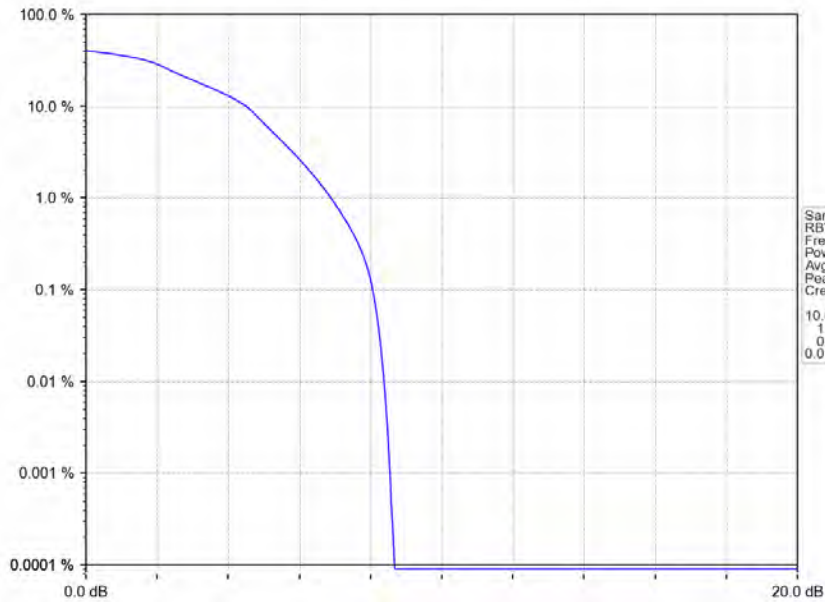
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Band48 10MHz 64QAM HCH 3695MHz RB 50 0 NTN



Band48 10MHz 256QAM LCH 3555MHz RB 50 0 NTN



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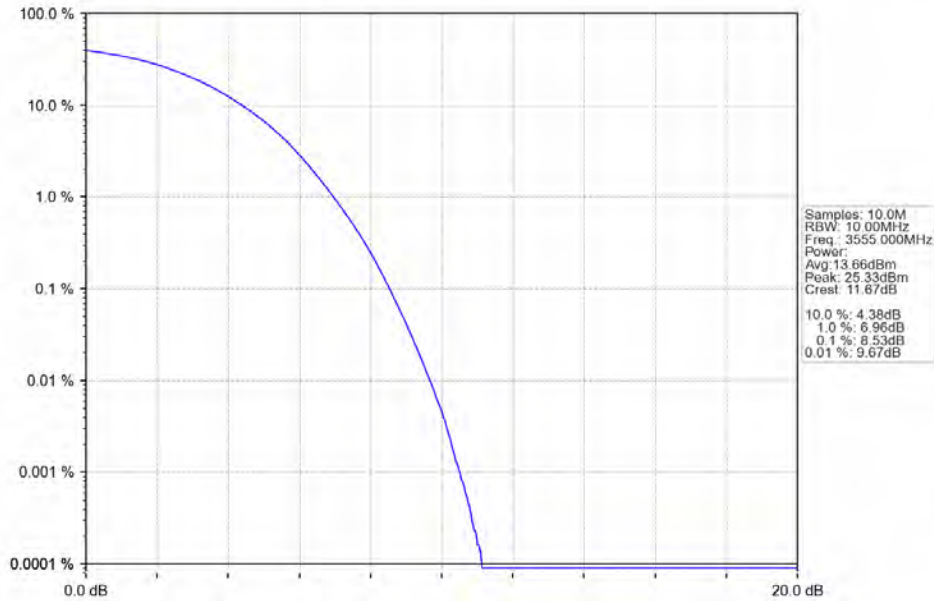
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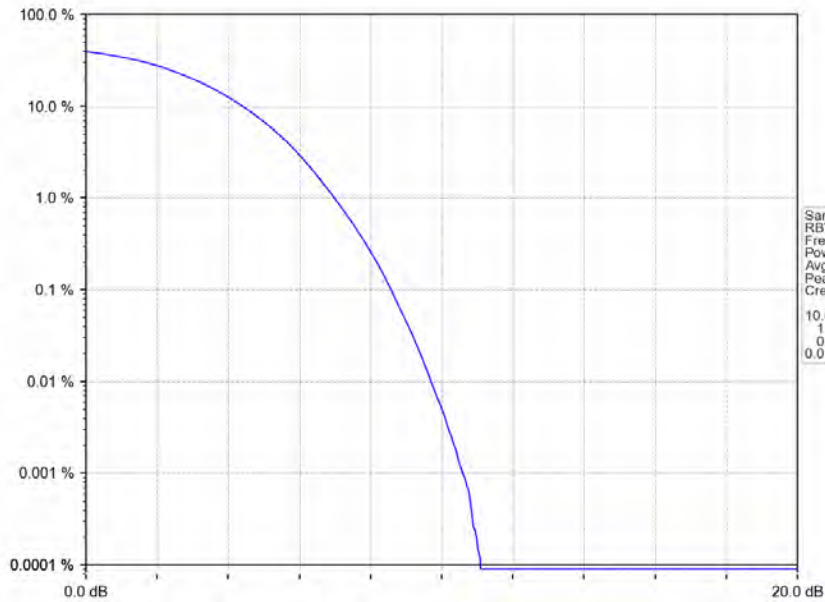
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Band48_10MHz_256QAM_MCH_3625MHz_RB_50_0_NTNV



Band48_10MHz_256QAM_HCH_3695MHz_RB_50_0_NTNV



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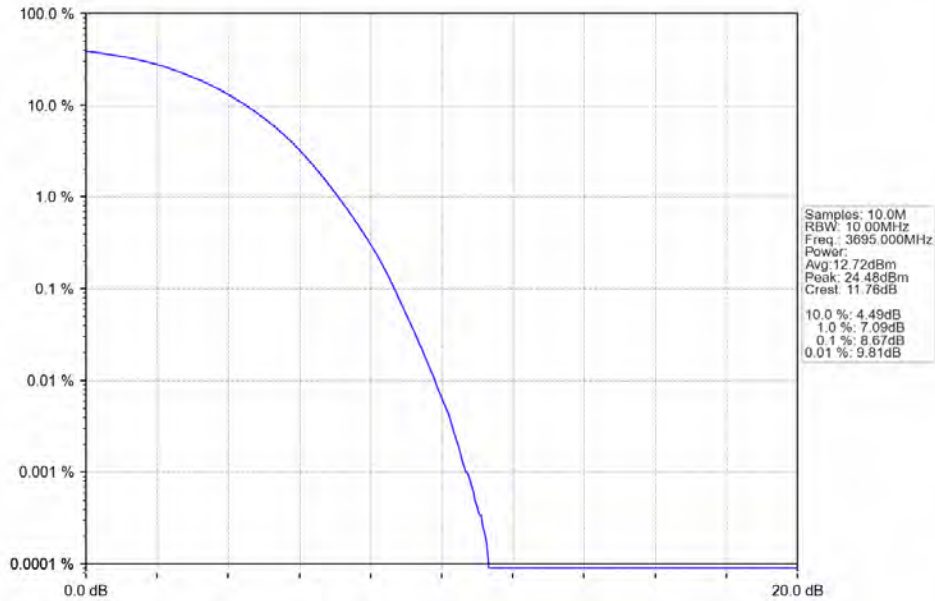
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4.3 B48_15MHz

4.3.1 Test Result

Band: 48 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3557.5	75	0	6.97	<=13	Pass
	3625	75	0	7.12	<=13	Pass
	3692.5	75	0	7.09	<=13	Pass
16QAM	3557.5	75	0	8.31	<=13	Pass
	3625	75	0	7.95	<=13	Pass
	3692.5	75	0	7.86	<=13	Pass
64QAM	3557.5	75	0	8.36	<=13	Pass
	3625	75	0	8.15	<=13	Pass
	3692.5	75	0	8.31	<=13	Pass
256QAM	3557.5	75	0	3.25	<=13	Pass
	3625	75	0	1.91	<=13	Pass
	3692.5	75	0	-44.00	<=13	Pass



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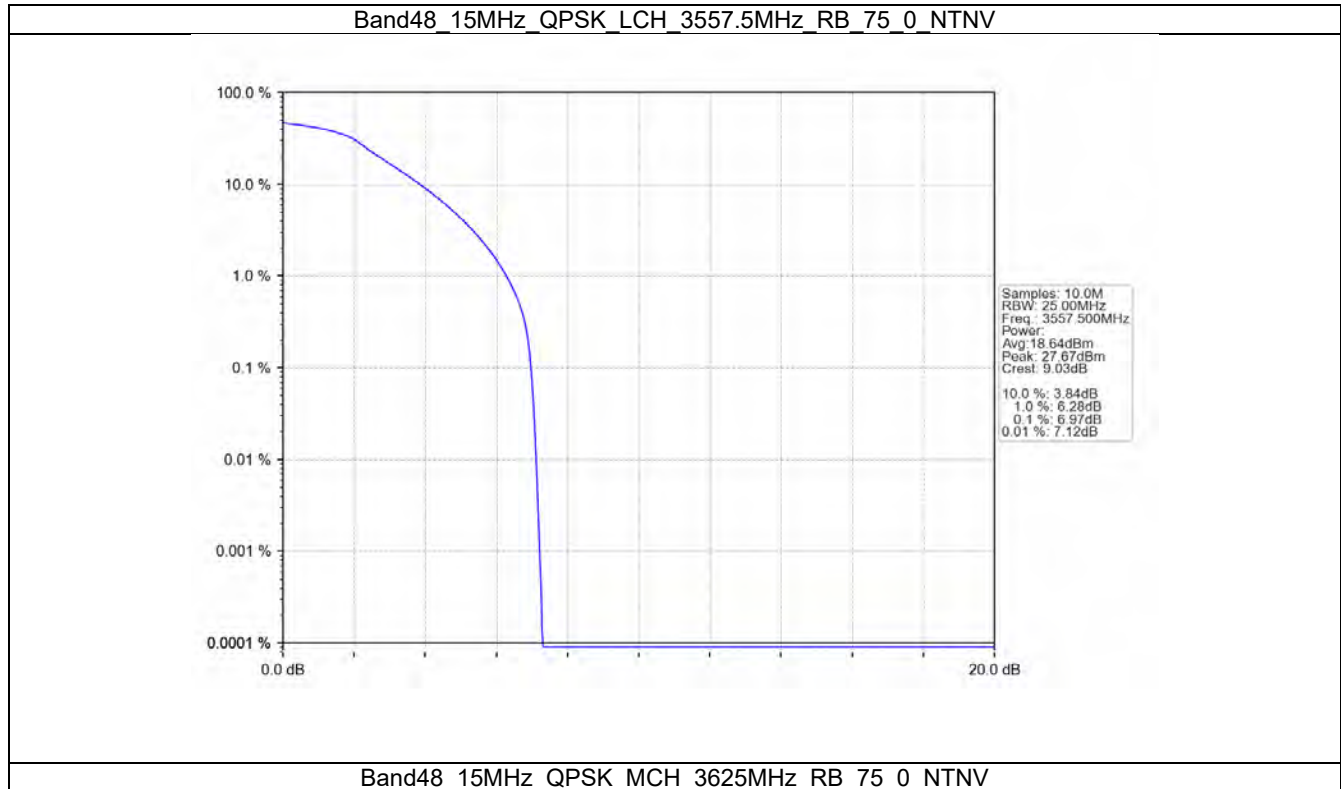
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4.3.2 Test Graph



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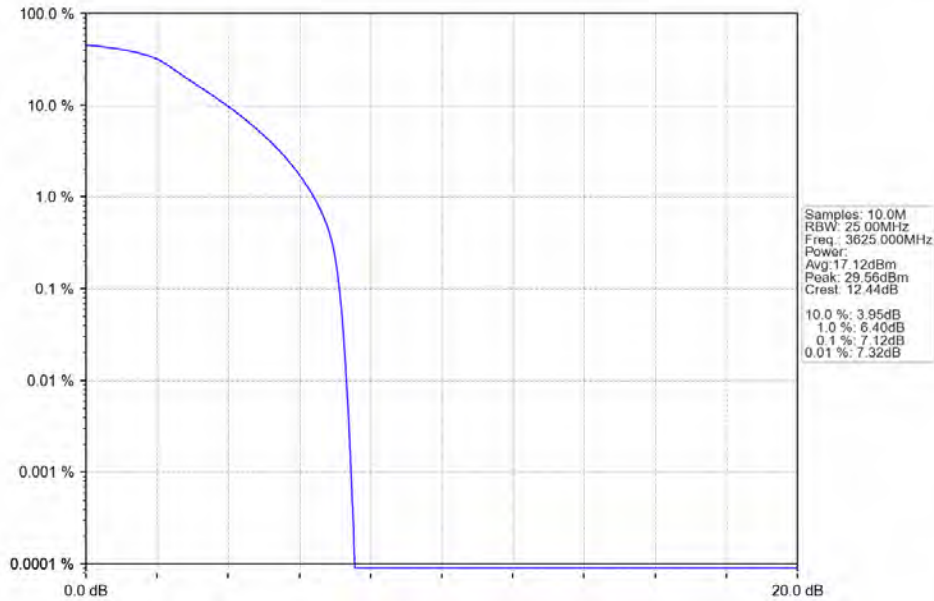
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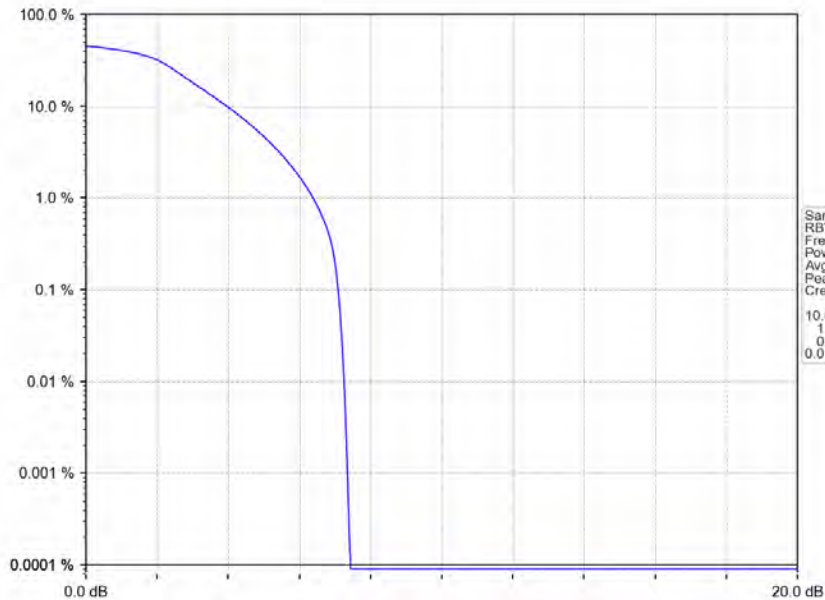
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Band48_15MHz_QPSK_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_16QAM_LCH_3557.5MHz_RB_75_0_NTNV



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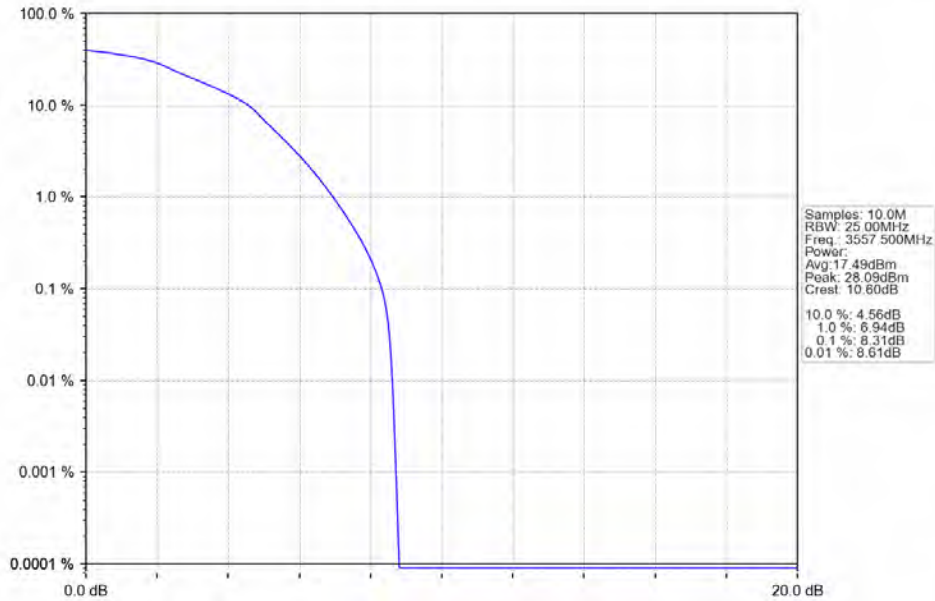
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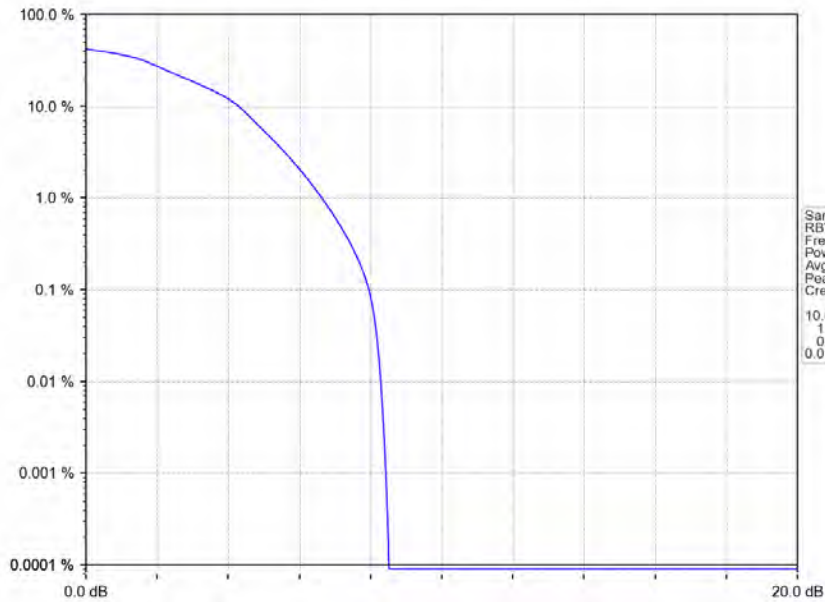
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Band48_15MHz_16QAM_MCH_3625MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 3625.000MHz
Power:
Avg: 16.50dBm
Peak: 26.07dBm
Crest: 9.57dB
10.0 %: 4.29dB
1.0 %: 6.63dB
0.1 %: 7.95dB
0.01 %: 8.29dB

Band48_15MHz_16QAM_HCH_3692.5MHz_RB_75_0_NTNV



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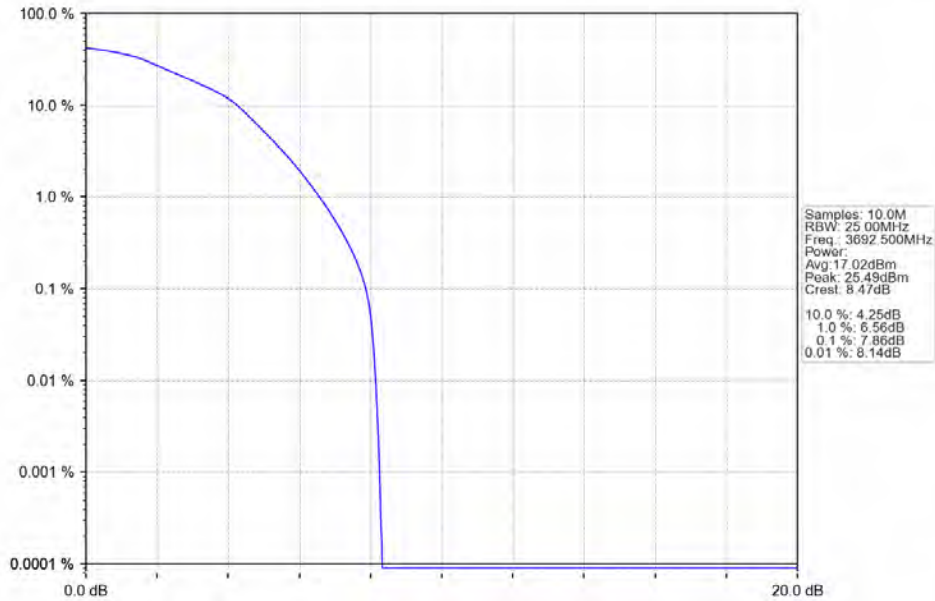
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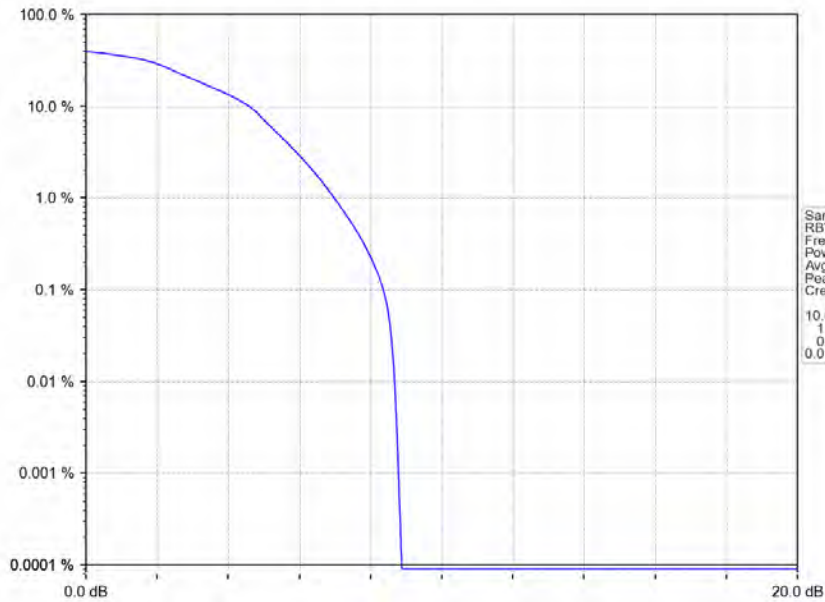
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Band48_15MHz_64QAM_LCH_3557.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 3557.500MHz
Power:
Avg: 17.46dBm
Peak: 26.90dBm
Crest: 9.44dB
10.0 %: 4.58dB
1.0 %: 6.97dB
0.1 %: 8.36dB
0.01 %: 8.68dB

Band48_15MHz_64QAM_MCH_3625MHz_RB_75_0_NTNV



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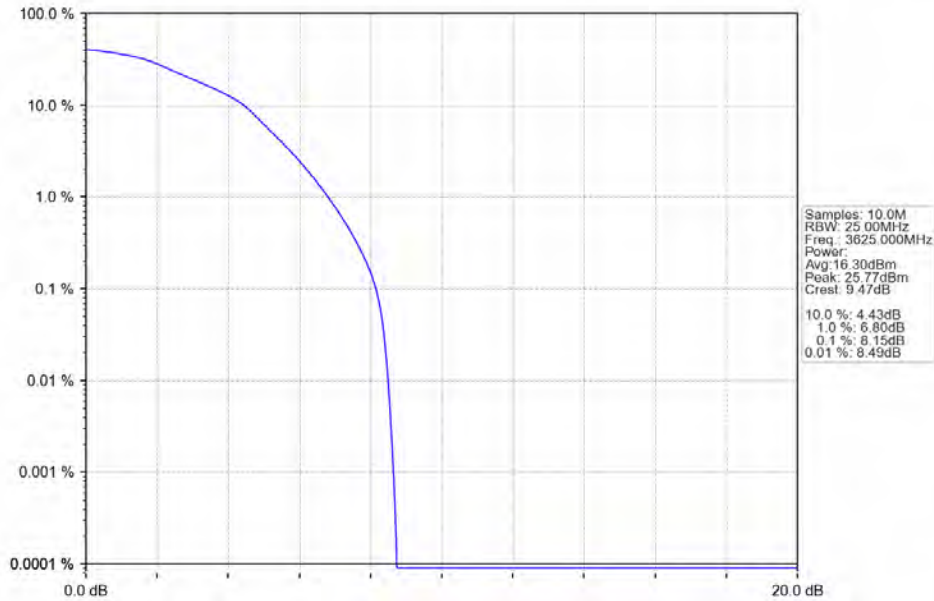
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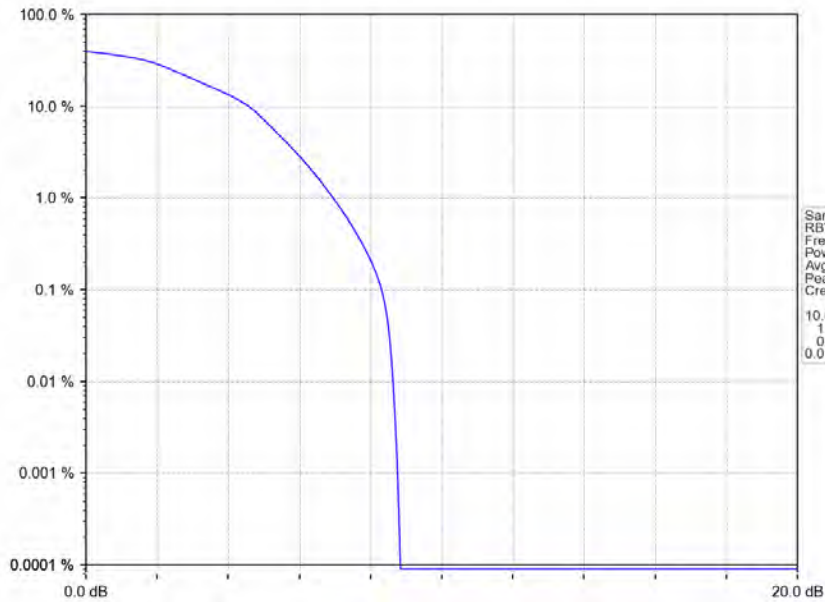
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Band48_15MHz_64QAM_HCH_3692.5MHz_RB_75_0_NTNV



Band48_15MHz_256QAM_LCH_3557.5MHz_RB_75_0_NTNV



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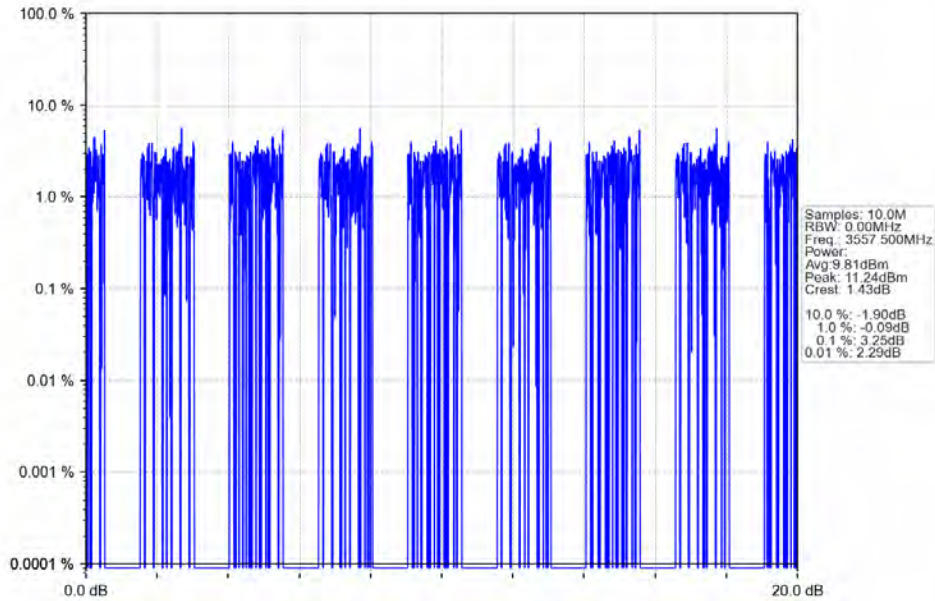
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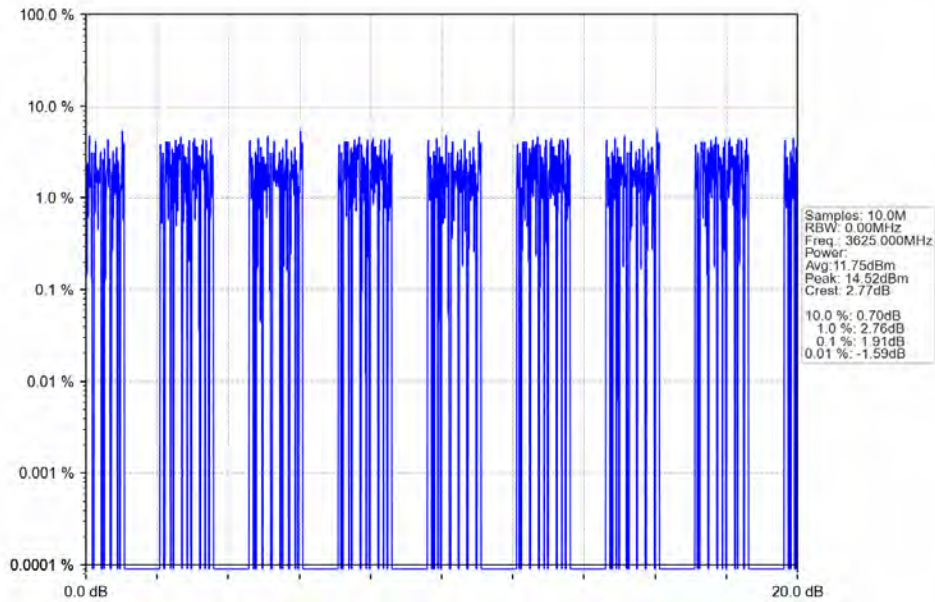
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Band48_15MHz_256QAM_MCH_3625MHz_RB_75_0_NTNV



Band48_15MHz_256QAM_HCH_3692.5MHz_RB_75_0_NTNV



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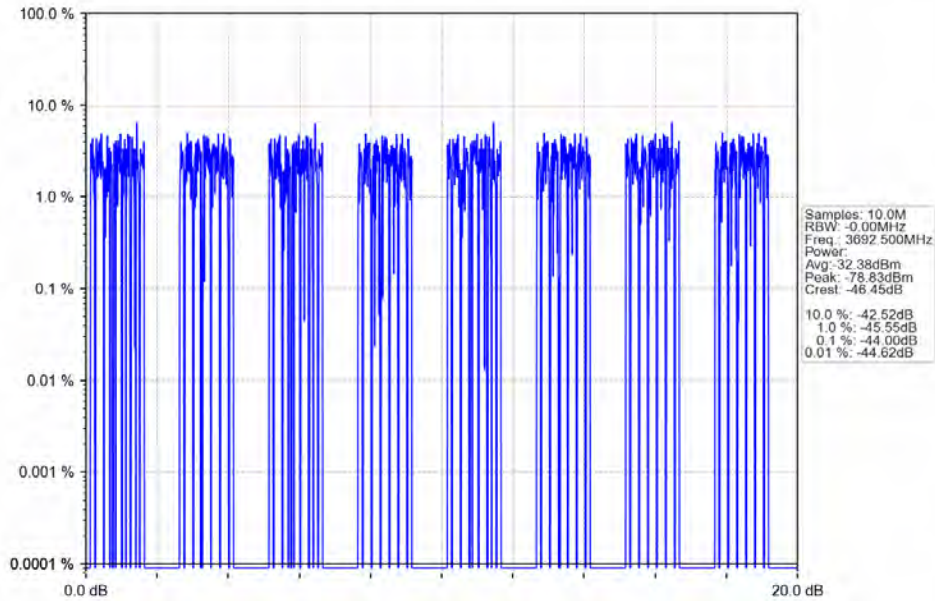
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4.4 B48_20MHz

4.4.1 Test Result

Band: 48 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	100	0	7.17	<=13	Pass
	3625	100	0	7.16	<=13	Pass
	3690	100	0	7.25	<=13	Pass
16QAM	3560	100	0	8.15	<=13	Pass
	3625	100	0	7.91	<=13	Pass
	3690	100	0	8.04	<=13	Pass
64QAM	3560	100	0	8.16	<=13	Pass
	3625	100	0	7.99	<=13	Pass
	3690	100	0	8.14	<=13	Pass
256QAM	3560	100	0	-39.95	<=13	Pass
	3625	100	0	1.30	<=13	Pass
	3690	100	0	-42.67	<=13	Pass



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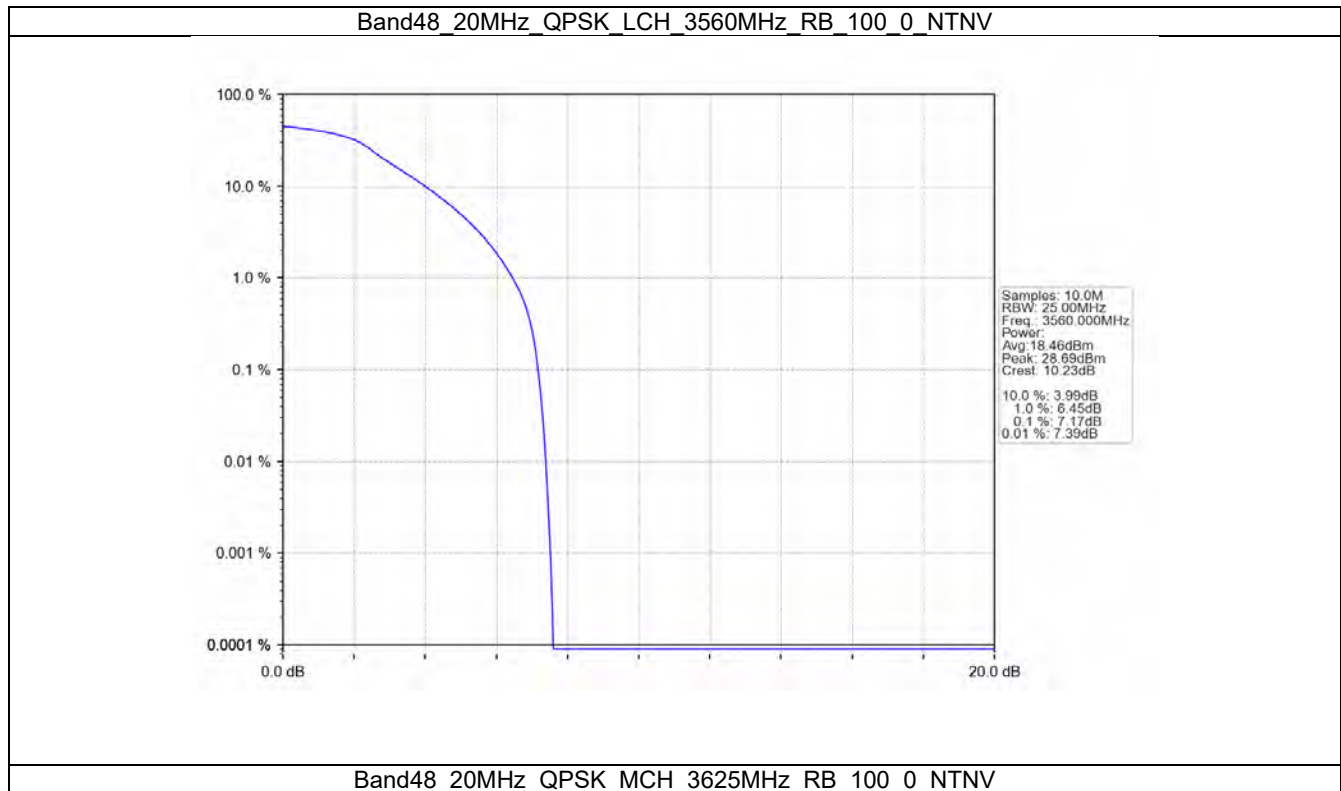
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4.4.2 Test Graph



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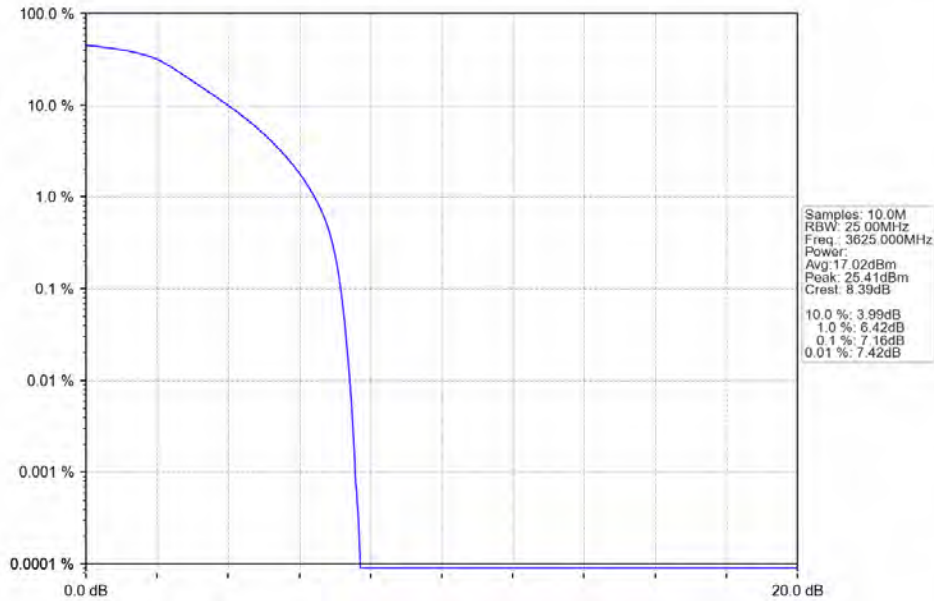
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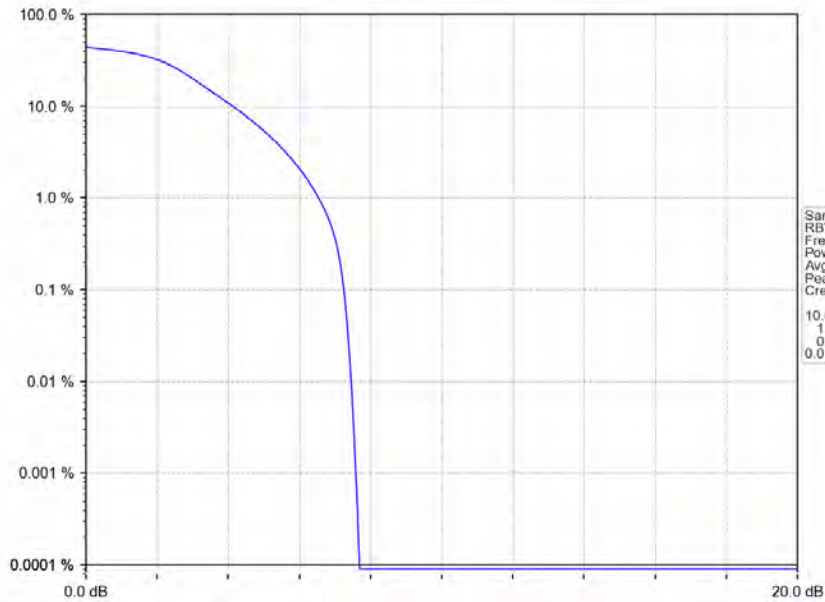
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Band48 20MHz QPSK HCH 3690MHz RB 100 0 NTN



Band48 20MHz 16QAM LCH 3560MHz RB 100 0 NTN



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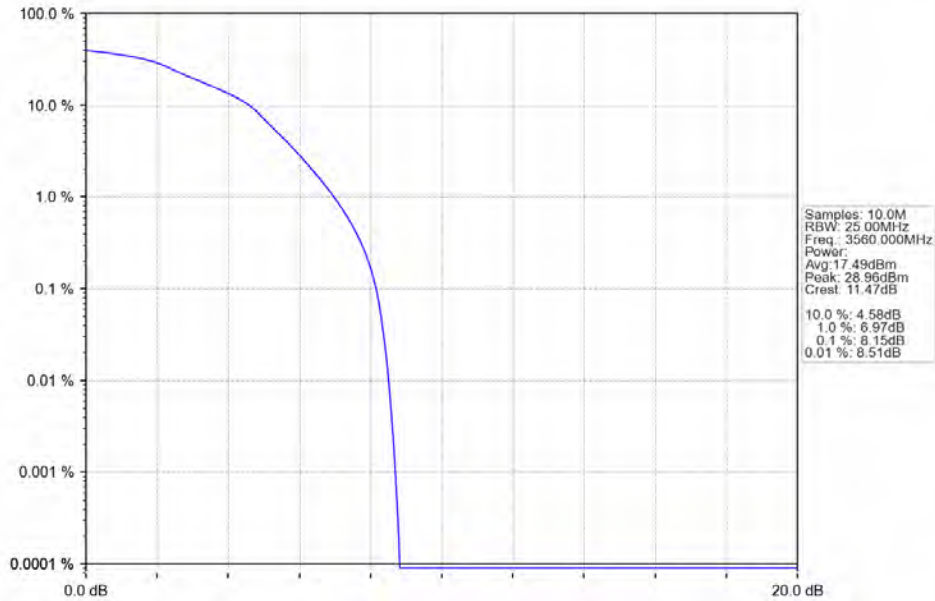
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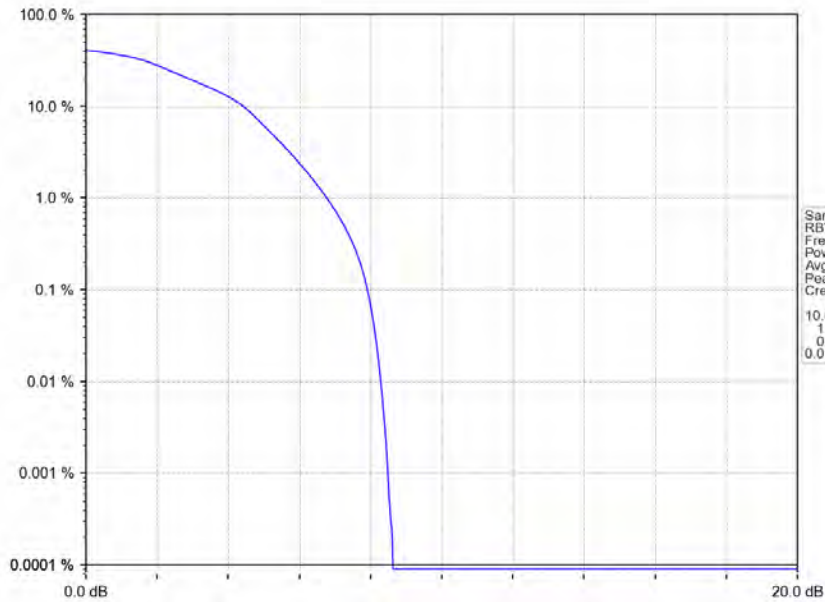
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Band48_20MHz_16QAM_MCH_3625MHz_RB_100_0_NTNV



Band48_20MHz_16QAM_HCH_3690MHz_RB_100_0_NTNV



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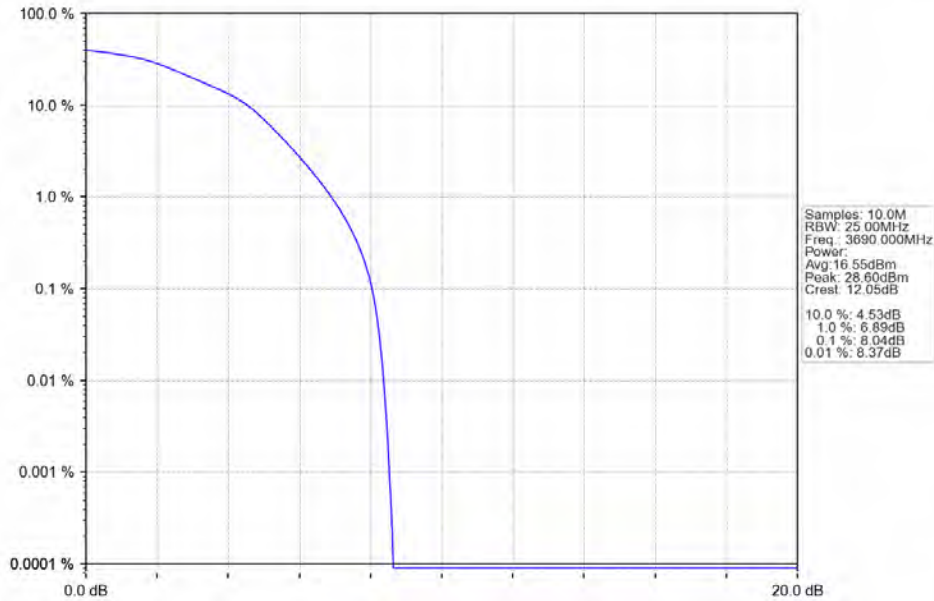
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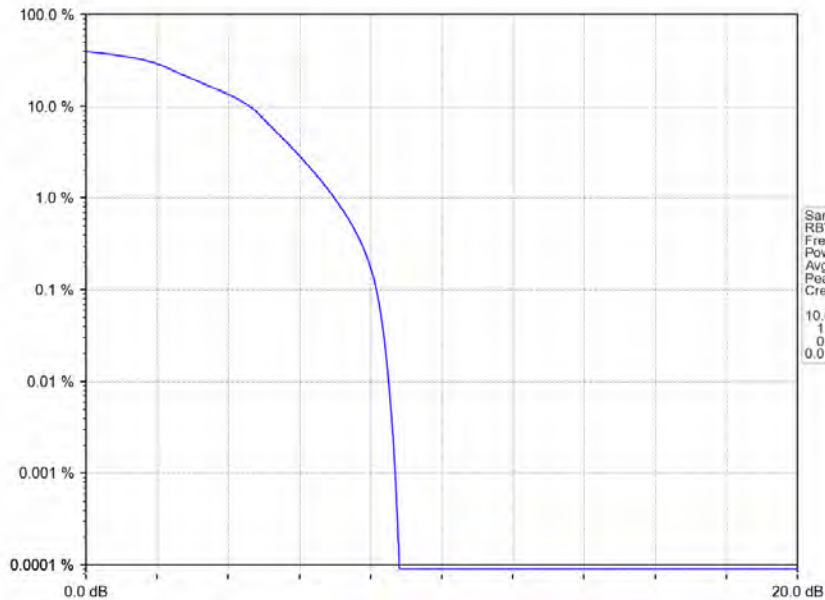
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Band48_20MHz_64QAM_LCH_3560MHz_RB_100_0_NTNV



Band48_20MHz_64QAM_MCH_3625MHz_RB_100_0_NTNV



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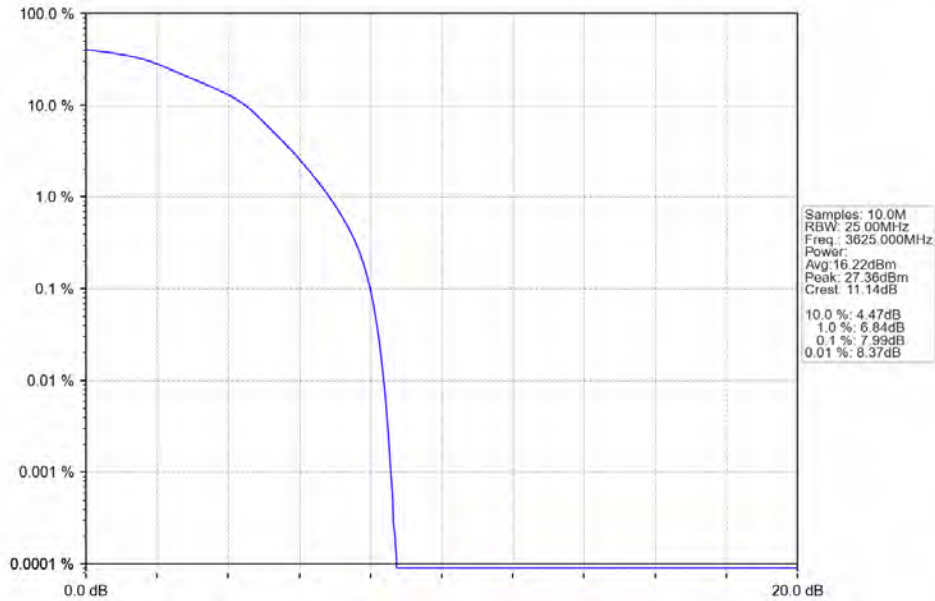
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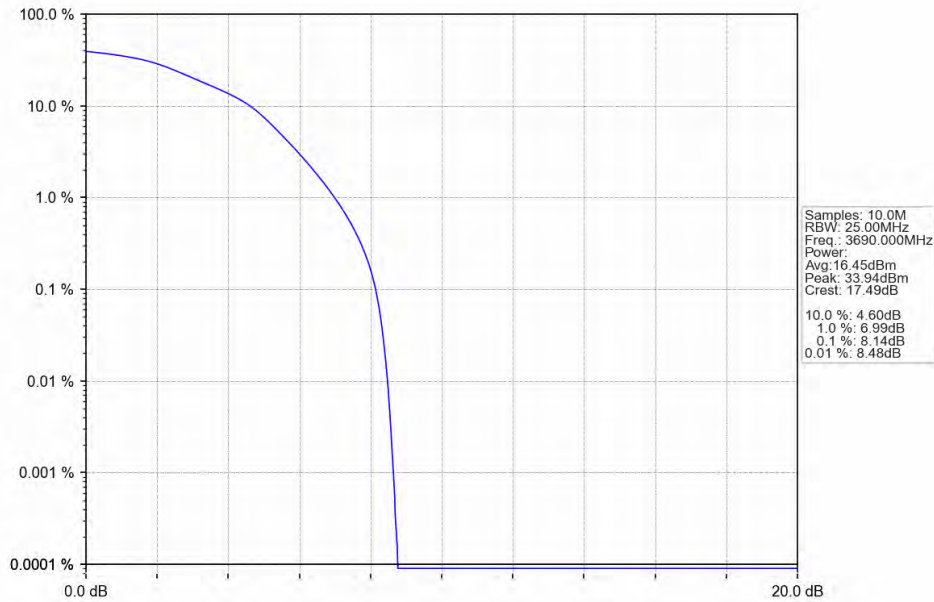
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Band48_20MHz_64QAM_HCH_3690MHz_RB_100_0_NTNV



Band48_20MHz_256QAM_LCH_3560MHz_RB_100_0_NTNV



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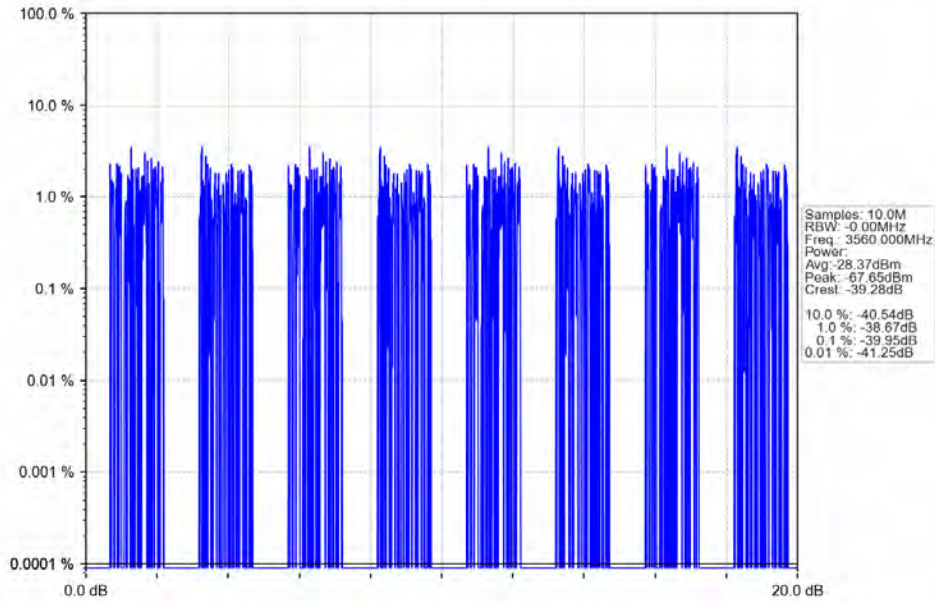
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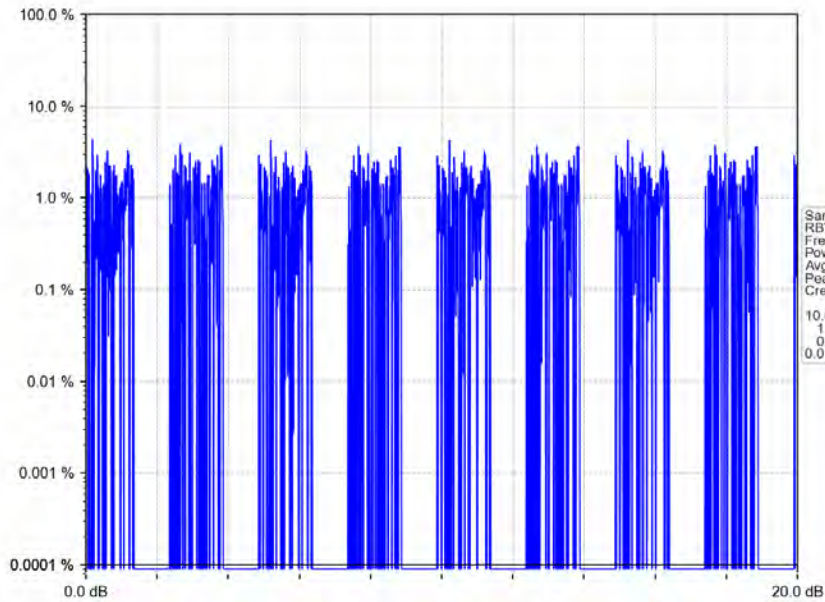
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Band48 20MHz 256QAM MCH 3625MHz RB 100 0 NTN



Band48 20MHz 256QAM HCH 3690MHz RB 100 0 NTN



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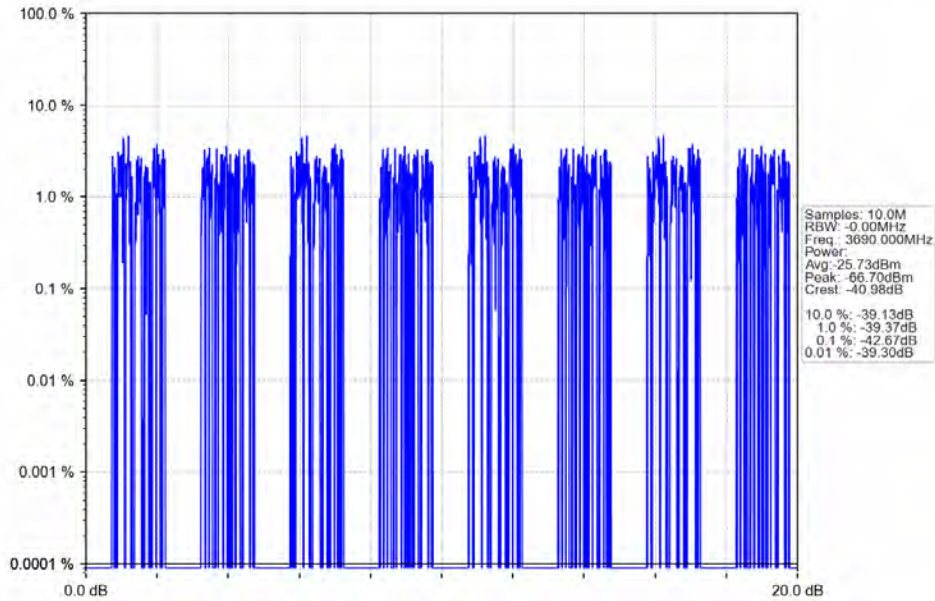
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5. Spurious Emission & Band Edges

5.1 B48_5MHz

5.1.1 Test Result

Band: 48 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	3552.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	3625	1	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
	3697.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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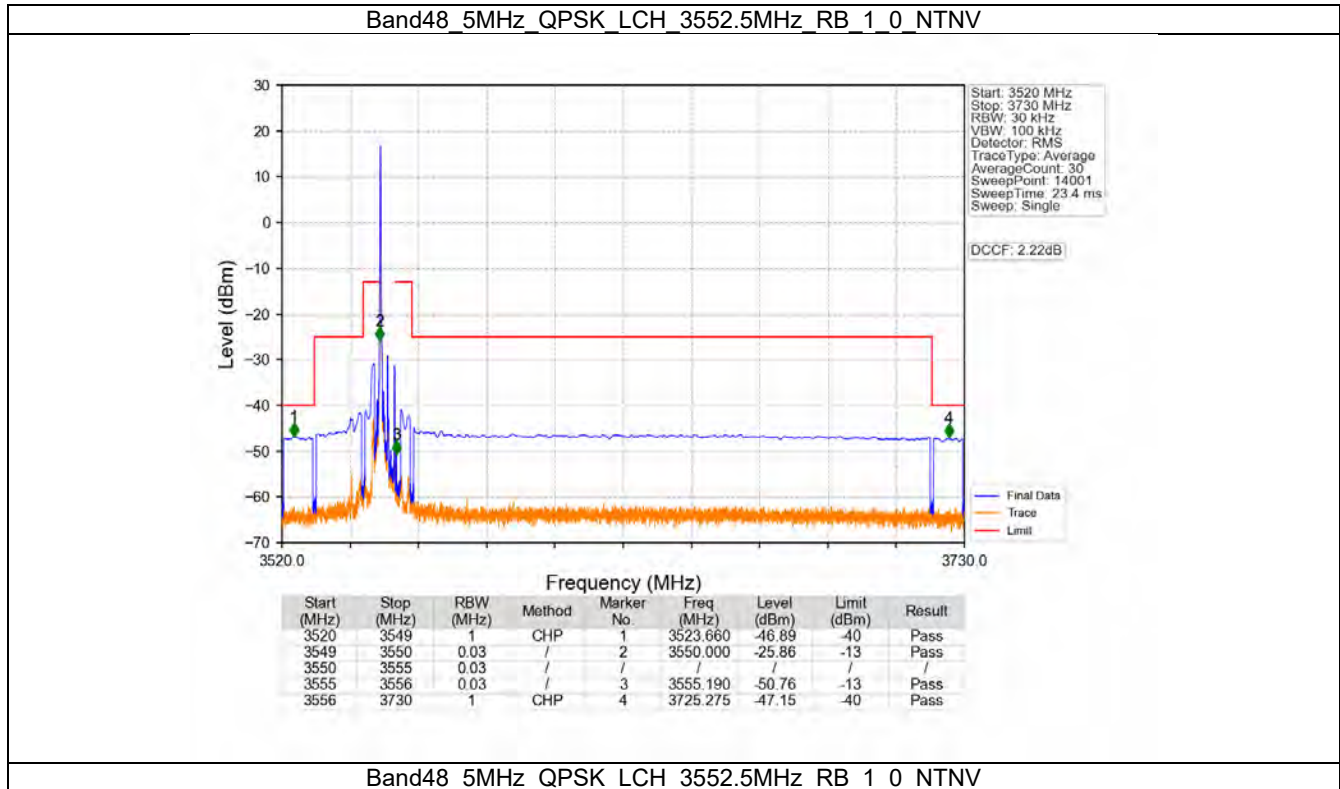
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5.1.2 Test Graph



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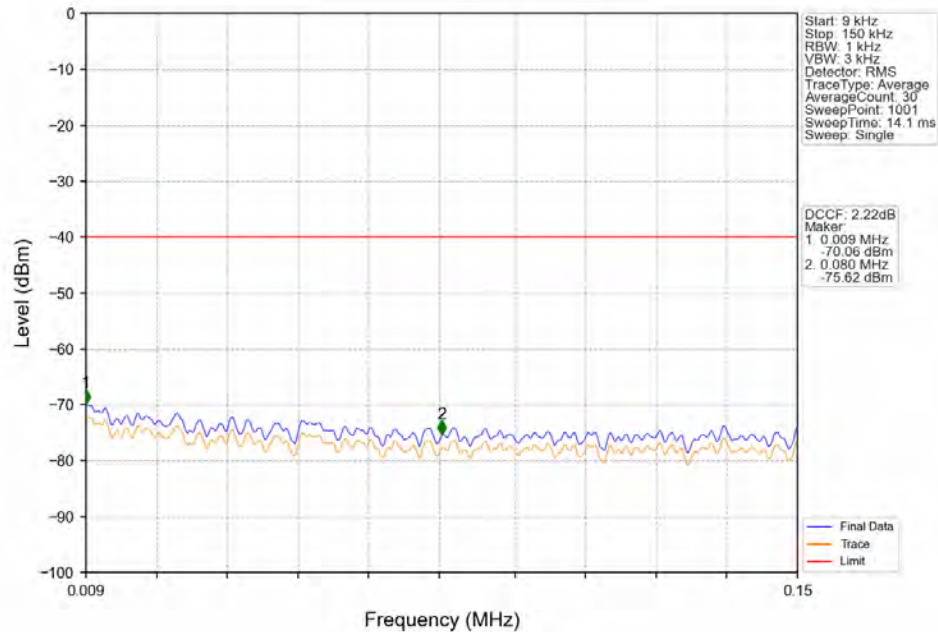
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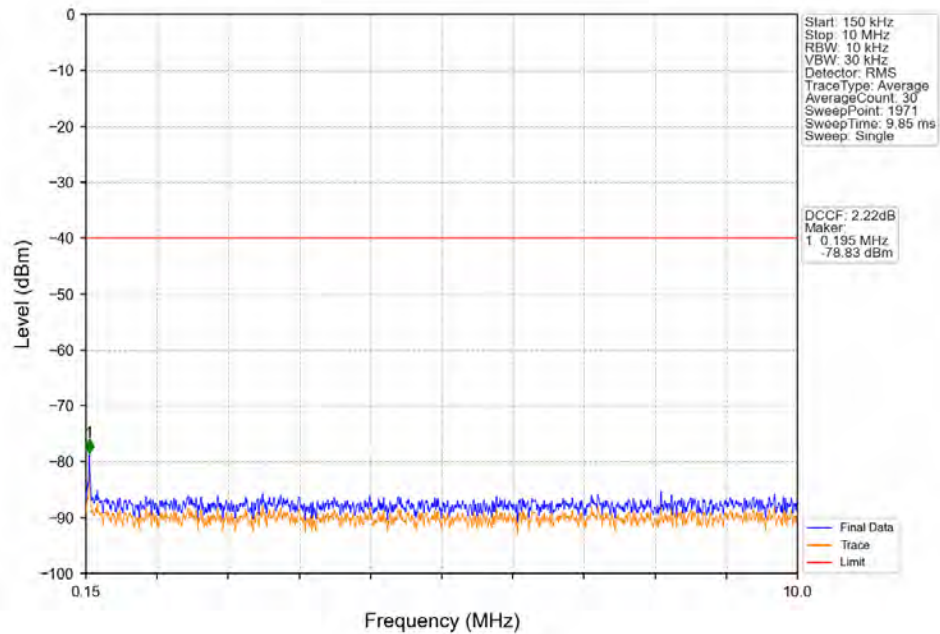
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Band48_5MHz_QPSK_LCH_3552.5MHz_RB_1_0_NTNV



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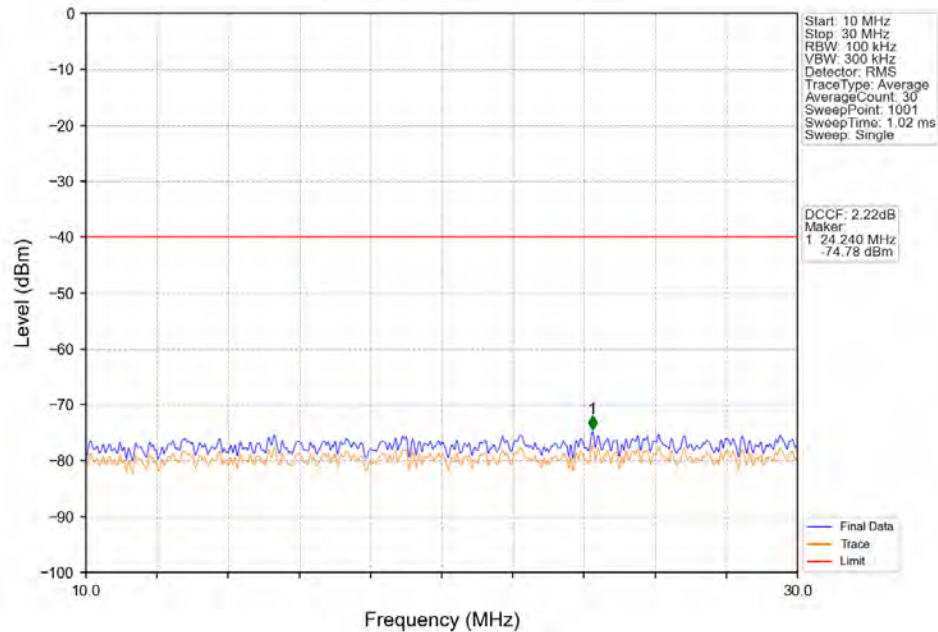
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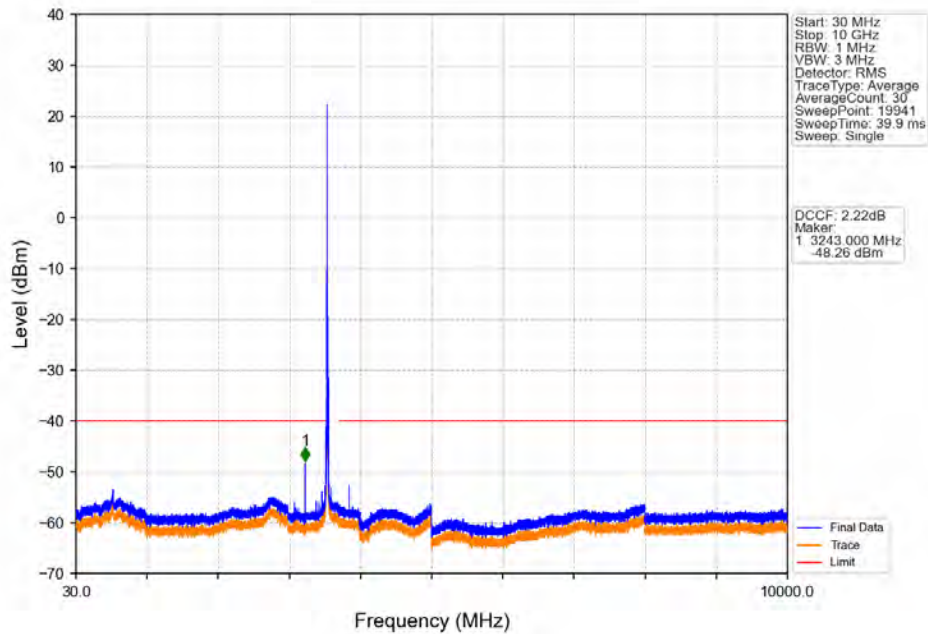
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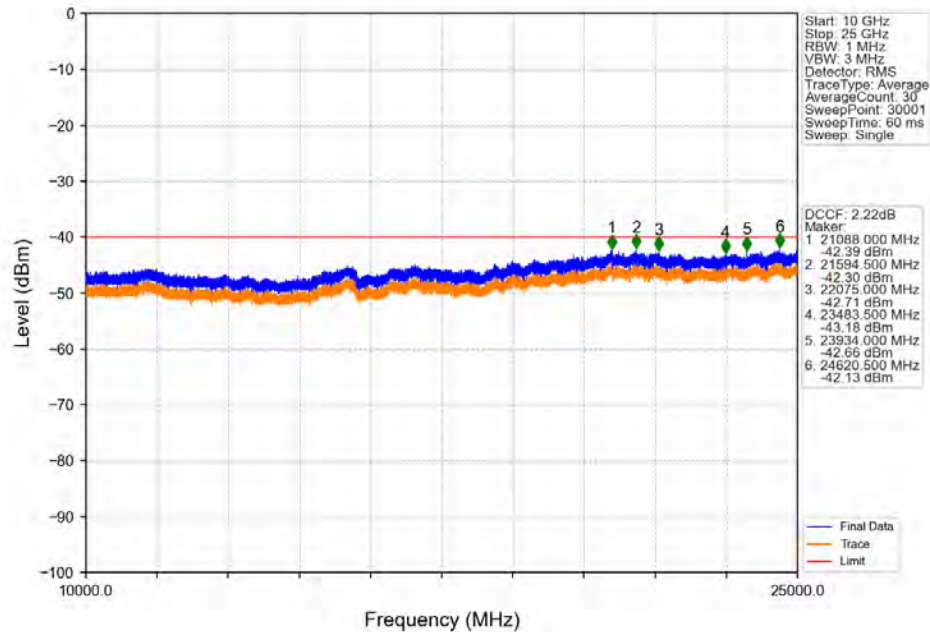
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