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Appendix B.5

LTE Band 4



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1. Effective (Isotropic) Radiated Power Output Data

1.1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.71	25.18	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.65	25.12	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.79	25.26	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.69	24.16	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.48	24.95	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.69	25.16	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.65	25.12	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.77	24.24	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.55	25.02	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.57	25.04	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.56	25.03	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.66	24.13	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.79	24.26	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.88	24.35	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.82	24.29	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.92	23.39	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.83	24.3	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.86	24.33	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.9	24.37	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.78	23.25	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.77	24.24	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.81	24.28	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.7	24.17	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.67	23.14	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.87	23.34	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.82	23.29	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.79	23.26	30	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	20.74	22.21	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.84	23.31	30	PASS



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Band4	1.4MHz	64QAM	20175	1RB#2	21.94	23.41	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.74	23.21	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.7	22.17	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.79	23.26	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.96	23.43	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.79	23.26	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.75	22.22	30	PASS
Band4	1.4MHz	256QAM	19957	1RB#0	18.7	20.17	30	PASS
Band4	1.4MHz	256QAM	19957	1RB#2	18.75	20.22	30	PASS
Band4	1.4MHz	256QAM	19957	1RB#5	18.79	20.26	30	PASS
Band4	1.4MHz	256QAM	19957	6RB#0	18.71	20.18	30	PASS
Band4	1.4MHz	256QAM	20175	1RB#0	18.63	20.1	30	PASS
Band4	1.4MHz	256QAM	20175	1RB#2	18.7	20.17	30	PASS
Band4	1.4MHz	256QAM	20175	1RB#5	18.87	20.34	30	PASS
Band4	1.4MHz	256QAM	20175	6RB#0	18.71	20.18	30	PASS
Band4	1.4MHz	256QAM	20393	1RB#0	18.76	20.23	30	PASS
Band4	1.4MHz	256QAM	20393	1RB#2	18.72	20.19	30	PASS
Band4	1.4MHz	256QAM	20393	1RB#5	18.74	20.21	30	PASS
Band4	1.4MHz	256QAM	20393	6RB#0	18.59	20.06	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.88	25.35	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.79	25.26	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.62	25.09	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.68	24.15	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.77	25.24	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.73	25.2	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.62	25.09	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.67	24.14	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.66	25.13	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.79	25.26	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.68	25.15	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.7	24.17	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.86	24.33	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.87	24.34	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.9	24.37	30	PASS



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Band4	3MHz	16QAM	19965	15RB#0	21.76	23.23	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.73	24.2	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.83	24.3	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.8	24.27	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.7	23.17	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.86	24.33	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.75	24.22	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.83	24.3	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.69	23.16	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	23.52	24.99	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.01	23.48	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	21.83	23.3	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	20.7	22.17	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	21.95	23.42	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	21.87	23.34	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	21.89	23.36	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	20.65	22.12	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.74	23.21	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	21.76	23.23	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	21.71	23.18	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	20.76	22.23	30	PASS
Band4	3MHz	256QAM	19965	1RB#0	18.78	20.25	30	PASS
Band4	3MHz	256QAM	19965	1RB#8	18.76	20.23	30	PASS
Band4	3MHz	256QAM	19965	1RB#14	18.81	20.28	30	PASS
Band4	3MHz	256QAM	19965	15RB#0	18.66	20.13	30	PASS
Band4	3MHz	256QAM	20175	1RB#0	18.6	20.07	30	PASS
Band4	3MHz	256QAM	20175	1RB#8	18.66	20.13	30	PASS
Band4	3MHz	256QAM	20175	1RB#14	18.76	20.23	30	PASS
Band4	3MHz	256QAM	20175	15RB#0	18.66	20.13	30	PASS
Band4	3MHz	256QAM	20385	1RB#0	18.7	20.17	30	PASS
Band4	3MHz	256QAM	20385	1RB#8	18.81	20.28	30	PASS
Band4	3MHz	256QAM	20385	1RB#14	18.76	20.23	30	PASS
Band4	3MHz	256QAM	20385	15RB#0	18.64	20.11	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.66	25.13	30	PASS



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Band4	5MHz	QPSK	19975	1RB#12	23.89	25.36	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.77	25.24	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.82	24.29	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.75	25.22	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.83	25.3	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.65	25.12	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.71	24.18	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.62	25.09	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.88	25.35	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.73	25.2	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.63	24.1	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.7	24.17	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.14	24.61	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.62	24.09	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.77	23.24	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.9	24.37	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.78	24.25	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.87	24.34	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.74	23.21	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.76	24.23	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.95	24.42	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.91	24.38	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.67	23.14	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	21.84	23.31	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	21.93	23.4	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	21.89	23.36	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	20.74	22.21	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	21.84	23.31	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.02	23.49	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	21.79	23.26	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	20.73	22.2	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	21.79	23.26	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	21.93	23.4	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	21.93	23.4	30	PASS



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Band4	5MHz	256QAM	19975	1RB#0	18.69	20.16	30	PASS
Band4	5MHz	256QAM	19975	1RB#12	18.89	20.36	30	PASS
Band4	5MHz	256QAM	19975	1RB#24	18.85	20.32	30	PASS
Band4	5MHz	256QAM	19975	25RB#0	18.8	20.27	30	PASS
Band4	5MHz	256QAM	20175	1RB#0	18.74	20.21	30	PASS
Band4	5MHz	256QAM	20175	1RB#12	18.99	20.46	30	PASS
Band4	5MHz	256QAM	20175	1RB#24	18.76	20.23	30	PASS
Band4	5MHz	256QAM	20175	25RB#0	18.65	20.12	30	PASS
Band4	5MHz	256QAM	20375	1RB#0	18.57	20.04	30	PASS
Band4	5MHz	256QAM	20375	1RB#12	18.83	20.3	30	PASS
Band4	5MHz	256QAM	20375	1RB#24	18.81	20.28	30	PASS
Band4	5MHz	256QAM	20375	25RB#0	18.65	20.12	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.86	25.33	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.74	25.21	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.61	25.08	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.73	24.2	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.69	25.16	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.73	25.2	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.72	25.19	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.75	24.22	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.53	25	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.81	25.28	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.68	25.15	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.67	24.14	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.92	24.39	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.84	24.31	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.05	24.52	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.83	23.3	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.72	24.19	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.93	24.4	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.81	24.28	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.72	23.19	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.65	24.12	30	PASS



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Band4	10MHz	16QAM	20350	1RB#24	22.84	24.31	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.77	24.24	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.77	23.24	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	21.92	23.39	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.01	23.48	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.02	23.49	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	20.79	22.26	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.05	23.52	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.03	23.5	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	21.91	23.38	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	20.76	22.23	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	21.81	23.28	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	21.92	23.39	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	21.87	23.34	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	20.74	22.21	30	PASS
Band4	10MHz	256QAM	20000	1RB#0	18.75	20.22	30	PASS
Band4	10MHz	256QAM	20000	1RB#24	18.85	20.32	30	PASS
Band4	10MHz	256QAM	20000	1RB#49	18.67	20.14	30	PASS
Band4	10MHz	256QAM	20000	50RB#0	18.83	20.3	30	PASS
Band4	10MHz	256QAM	20175	1RB#0	18.86	20.33	30	PASS
Band4	10MHz	256QAM	20175	1RB#24	18.8	20.27	30	PASS
Band4	10MHz	256QAM	20175	1RB#49	18.97	20.44	30	PASS
Band4	10MHz	256QAM	20175	50RB#0	18.71	20.18	30	PASS
Band4	10MHz	256QAM	20350	1RB#0	18.73	20.2	30	PASS
Band4	10MHz	256QAM	20350	1RB#24	18.79	20.26	30	PASS
Band4	10MHz	256QAM	20350	1RB#49	18.83	20.3	30	PASS
Band4	10MHz	256QAM	20350	50RB#0	18.75	20.22	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.32	24.79	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.79	25.26	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.68	25.15	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.66	24.13	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.64	25.11	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.6	25.07	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.7	25.17	30	PASS



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Band4	15MHz	QPSK	20175	75RB#0	22.58	24.05	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.72	25.19	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.58	25.05	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.83	25.3	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.56	24.03	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.71	24.18	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.7	24.17	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.72	24.19	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.68	23.15	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.59	24.06	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.77	24.24	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.66	24.13	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.54	23.01	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.57	24.04	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.66	24.13	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.85	24.32	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.53	23	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	21.63	23.1	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	21.82	23.29	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	21.92	23.39	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	20.74	22.21	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	21.72	23.19	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	21.89	23.36	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	21.67	23.14	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	20.53	22	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	21.77	23.24	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	21.64	23.11	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	21.63	23.1	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	20.57	22.04	30	PASS
Band4	15MHz	256QAM	20025	1RB#0	18.32	19.79	30	PASS
Band4	15MHz	256QAM	20025	1RB#38	18.77	20.24	30	PASS
Band4	15MHz	256QAM	20025	1RB#74	18.51	19.98	30	PASS
Band4	15MHz	256QAM	20025	75RB#0	18.72	20.19	30	PASS
Band4	15MHz	256QAM	20175	1RB#0	18.85	20.32	30	PASS



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Band4	15MHz	256QAM	20175	1RB#38	18.56	20.03	30	PASS
Band4	15MHz	256QAM	20175	1RB#74	18.86	20.33	30	PASS
Band4	15MHz	256QAM	20175	75RB#0	18.53	20	30	PASS
Band4	15MHz	256QAM	20325	1RB#0	18.55	20.02	30	PASS
Band4	15MHz	256QAM	20325	1RB#38	18.71	20.18	30	PASS
Band4	15MHz	256QAM	20325	1RB#74	18.9	20.37	30	PASS
Band4	15MHz	256QAM	20325	75RB#0	18.61	20.08	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.49	24.96	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.66	25.13	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.72	25.19	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.75	24.22	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.5	24.97	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.49	24.96	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.77	25.24	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.56	24.03	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.51	24.98	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.54	25.01	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.87	25.34	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.6	24.07	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.53	24	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.06	24.53	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.76	24.23	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.66	23.13	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.62	24.09	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.63	24.1	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.69	24.16	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.63	23.1	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.65	24.12	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.63	24.1	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.82	24.29	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.53	23	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	21.57	23.04	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	21.86	23.33	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	21.79	23.26	30	PASS



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Band4	20MHz	64QAM	20050	100RB#0	20.73	22.2	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	21.86	23.33	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	21.78	23.25	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	21.86	23.33	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	20.61	22.08	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	21.76	23.23	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	21.91	23.38	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	21.93	23.4	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	20.49	21.96	30	PASS
Band4	20MHz	256QAM	20050	1RB#0	18.52	19.99	30	PASS
Band4	20MHz	256QAM	20050	1RB#49	18.64	20.11	30	PASS
Band4	20MHz	256QAM	20050	1RB#99	18.9	20.37	30	PASS
Band4	20MHz	256QAM	20050	100RB#0	18.63	20.1	30	PASS
Band4	20MHz	256QAM	20175	1RB#0	18.53	20	30	PASS
Band4	20MHz	256QAM	20175	1RB#49	18.74	20.21	30	PASS
Band4	20MHz	256QAM	20175	1RB#99	18.79	20.26	30	PASS
Band4	20MHz	256QAM	20175	100RB#0	18.59	20.06	30	PASS
Band4	20MHz	256QAM	20300	1RB#0	18.49	19.96	30	PASS
Band4	20MHz	256QAM	20300	1RB#49	18.53	20	30	PASS
Band4	20MHz	256QAM	20300	1RB#99	18.75	20.22	30	PASS
Band4	20MHz	256QAM	20300	100RB#0	18.52	19.99	30	PASS



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2. Frequency Stability

2.6 B4_20MHz

2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.135	-0.873	-0.0005	/	Pass
					3.7	-1.803	-0.0010	/	Pass
					4.4	-0.494	-0.0003	/	Pass
				-30	3.7	0.233	0.0001	/	Pass
				-20	3.7	-0.509	-0.0003	/	Pass
				-10	3.7	-1.694	-0.0010	/	Pass
				0	3.7	0.255	0.0001	/	Pass
				10	3.7	-1.721	-0.0010	/	Pass
				30	3.7	-2.433	-0.0014	/	Pass
				40	3.7	0.023	0.0000	/	Pass
				50	3.7	-2.180	-0.0013	/	Pass
	1732.5	100	0	20	3.135	-1.018	-0.0006	/	Pass
					3.7	-0.823	-0.0005	/	Pass
					4.4	-0.375	-0.0002	/	Pass
				-30	3.7	-0.831	-0.0005	/	Pass
				-20	3.7	-0.195	-0.0001	/	Pass
				-10	3.7	-2.002	-0.0012	/	Pass
				0	3.7	-2.544	-0.0015	/	Pass
				10	3.7	-2.169	-0.0013	/	Pass
				30	3.7	-1.895	-0.0011	/	Pass
				40	3.7	-1.902	-0.0011	/	Pass
				50	3.7	-1.069	-0.0006	/	Pass
	1745	100	0	20	3.135	-0.847	-0.0005	/	Pass
					3.7	-1.077	-0.0006	/	Pass
					4.4	-0.898	-0.0005	/	Pass
				-30	3.7	-2.197	-0.0013	/	Pass
				-20	3.7	-1.830	-0.0010	/	Pass
				-10	3.7	-1.786	-0.0010	/	Pass
				0	3.7	-1.523	-0.0009	/	Pass
				10	3.7	-2.045	-0.0012	/	Pass
				30	3.7	-0.241	-0.0001	/	Pass
				40	3.7	-2.146	-0.0012	/	Pass
				50	3.7	-1.171	-0.0007	/	Pass



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3. Field Strength of Spurious Radiation

Test Band = LTE_B4
 Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3766.5383	54.22	-49.52	30.50	-60.06	-13.00	47.06	Horizontal
2	5133.1067	53.18	-47.28	33.57	-55.79	-13.00	42.79	Horizontal
3	5884.6442	51.87	-45.67	34.24	-54.82	-13.00	41.82	Horizontal
4	8539.777	49.58	-41.56	38.85	-48.39	-13.00	35.39	Horizontal
5	11851.1926	47.20	-38.13	39.70	-46.49	-13.00	33.49	Horizontal
6	17900.245	48.01	-38.01	42.20	-43.06	-13.00	30.06	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.2711	54.50	-50.52	29.71	-61.57	-13.00	48.57	Vertical
2	5133.1067	53.11	-47.28	33.57	-55.86	-13.00	42.86	Vertical
3	7023.2012	51.00	-44.12	36.41	-51.97	-13.00	38.97	Vertical
4	8566.7783	49.76	-41.69	38.80	-48.39	-13.00	35.39	Vertical
5	10705.8853	48.11	-39.23	39.51	-46.87	-13.00	33.87	Vertical
6	15026.8513	47.39	-35.12	39.87	-43.12	-13.00	30.12	Vertical



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Test Band = LTE_B4
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.0224	54.31	-50.64	29.61	-61.98	-13.00	48.98	Horizontal
2	4402.5701	52.75	-48.73	32.18	-59.06	-13.00	46.06	Horizontal
3	5850.8925	51.76	-45.81	34.10	-55.21	-13.00	42.21	Horizontal
4	7969.7485	50.61	-43.19	37.46	-50.38	-13.00	37.38	Horizontal
5	9498.3249	49.13	-40.60	39.19	-47.54	-13.00	34.54	Horizontal
6	13805.0403	46.90	-36.70	40.41	-44.65	-13.00	31.65	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.0224	54.79	-50.64	29.61	-61.50	-13.00	48.50	Vertical
2	4548.0774	52.92	-48.37	32.09	-58.62	-13.00	45.62	Vertical
3	6485.4243	50.20	-44.86	34.90	-55.02	-13.00	42.02	Vertical
4	8547.2774	49.17	-41.41	39.03	-48.47	-13.00	35.47	Vertical
5	9484.0742	49.70	-40.74	39.14	-47.16	-13.00	34.16	Vertical
6	15024.6012	47.40	-35.09	39.88	-43.07	-13.00	30.07	Vertical



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Test Band = LTE_B4
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3623.2812	53.86	-49.53	30.29	-60.64	-13.00	47.64	Horizontal
2	4798.5899	52.39	-47.72	32.39	-58.20	-13.00	45.20	Horizontal
3	6256.6628	51.15	-45.13	34.44	-54.80	-13.00	41.80	Horizontal
4	8549.5275	48.86	-41.37	39.09	-48.68	-13.00	35.68	Horizontal
5	11408.6704	47.71	-38.49	39.68	-46.36	-13.00	33.36	Horizontal
6	15017.8509	47.43	-35.01	39.88	-42.96	-13.00	29.96	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3614.2807	53.86	-49.54	30.26	-60.68	-13.00	47.68	Vertical
2	5138.3569	52.25	-47.25	33.58	-56.68	-13.00	43.68	Vertical
3	7986.9994	50.28	-43.00	37.43	-50.55	-13.00	37.55	Vertical
4	9506.5753	49.16	-40.66	39.19	-47.57	-13.00	34.57	Vertical
5	11253.4127	47.78	-38.60	39.65	-46.43	-13.00	33.43	Vertical
6	15010.3505	47.41	-34.91	39.89	-42.87	-13.00	29.87	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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4. 99% & 26dB Bandwidth

4.1 Band4_OBW

4.1.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.119	/	Pass
		1732.5	6	0	1.127	/	Pass
		1754.3	6	0	1.116	/	Pass
	16QAM	1710.7	6	0	1.132	/	Pass
		1732.5	6	0	1.126	/	Pass
		1754.3	6	0	1.130	/	Pass
	64QAM	1710.7	6	0	1.130	/	Pass
		1732.5	6	0	1.119	/	Pass
		1754.3	6	0	1.125	/	Pass
	256QAM	1710.7	6	0	1.132	/	Pass
		1732.5	6	0	1.122	/	Pass
		1754.3	6	0	1.124	/	Pass
3	QPSK	1711.5	15	0	2.761	/	Pass
		1732.5	15	0	2.741	/	Pass
		1753.5	15	0	2.742	/	Pass
	16QAM	1711.5	15	0	2.745	/	Pass
		1732.5	15	0	2.767	/	Pass
		1753.5	15	0	2.755	/	Pass
	64QAM	1711.5	15	0	2.755	/	Pass
		1732.5	15	0	2.753	/	Pass
		1753.5	15	0	2.746	/	Pass
	256QAM	1711.5	15	0	2.747	/	Pass
		1732.5	15	0	2.757	/	Pass
		1753.5	15	0	2.743	/	Pass
5	QPSK	1712.5	25	0	4.584	/	Pass
		1732.5	25	0	4.573	/	Pass
		1752.5	25	0	4.571	/	Pass
	16QAM	1712.5	25	0	4.563	/	Pass
		1732.5	25	0	4.572	/	Pass
		1752.5	25	0	4.576	/	Pass
	64QAM	1712.5	25	0	4.592	/	Pass
		1732.5	25	0	4.569	/	Pass
		1752.5	25	0	4.565	/	Pass
	256QAM	1712.5	25	0	4.581	/	Pass
		1732.5	25	0	4.586	/	Pass
		1752.5	25	0	4.559	/	Pass
10	QPSK	1715	50	0	9.086	/	Pass
		1732.5	50	0	9.048	/	Pass
		1750	50	0	9.085	/	Pass



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	16QAM	1715	50	0	9.085	/	Pass
		1732.5	50	0	9.095	/	Pass
		1750	50	0	9.061	/	Pass
	64QAM	1715	50	0	9.093	/	Pass
		1732.5	50	0	9.059	/	Pass
		1750	50	0	9.083	/	Pass
	256QAM	1715	50	0	9.062	/	Pass
		1732.5	50	0	9.092	/	Pass
		1750	50	0	9.082	/	Pass
15	QPSK	1717.5	75	0	13.575	/	Pass
		1732.5	75	0	13.641	/	Pass
		1747.5	75	0	13.602	/	Pass
	16QAM	1717.5	75	0	13.604	/	Pass
		1732.5	75	0	13.619	/	Pass
		1747.5	75	0	13.594	/	Pass
	64QAM	1717.5	75	0	13.566	/	Pass
		1732.5	75	0	13.611	/	Pass
		1747.5	75	0	13.577	/	Pass
	256QAM	1717.5	75	0	13.558	/	Pass
		1732.5	75	0	13.636	/	Pass
		1747.5	75	0	13.618	/	Pass
20	QPSK	1720	100	0	18.093	/	Pass
		1732.5	100	0	18.103	/	Pass
		1745	100	0	18.134	/	Pass
	16QAM	1720	100	0	18.076	/	Pass
		1732.5	100	0	18.125	/	Pass
		1745	100	0	18.196	/	Pass
	64QAM	1720	100	0	18.097	/	Pass
		1732.5	100	0	18.126	/	Pass
		1745	100	0	18.204	/	Pass
	256QAM	1720	100	0	18.110	/	Pass
		1732.5	100	0	18.133	/	Pass
		1745	100	0	18.120	/	Pass



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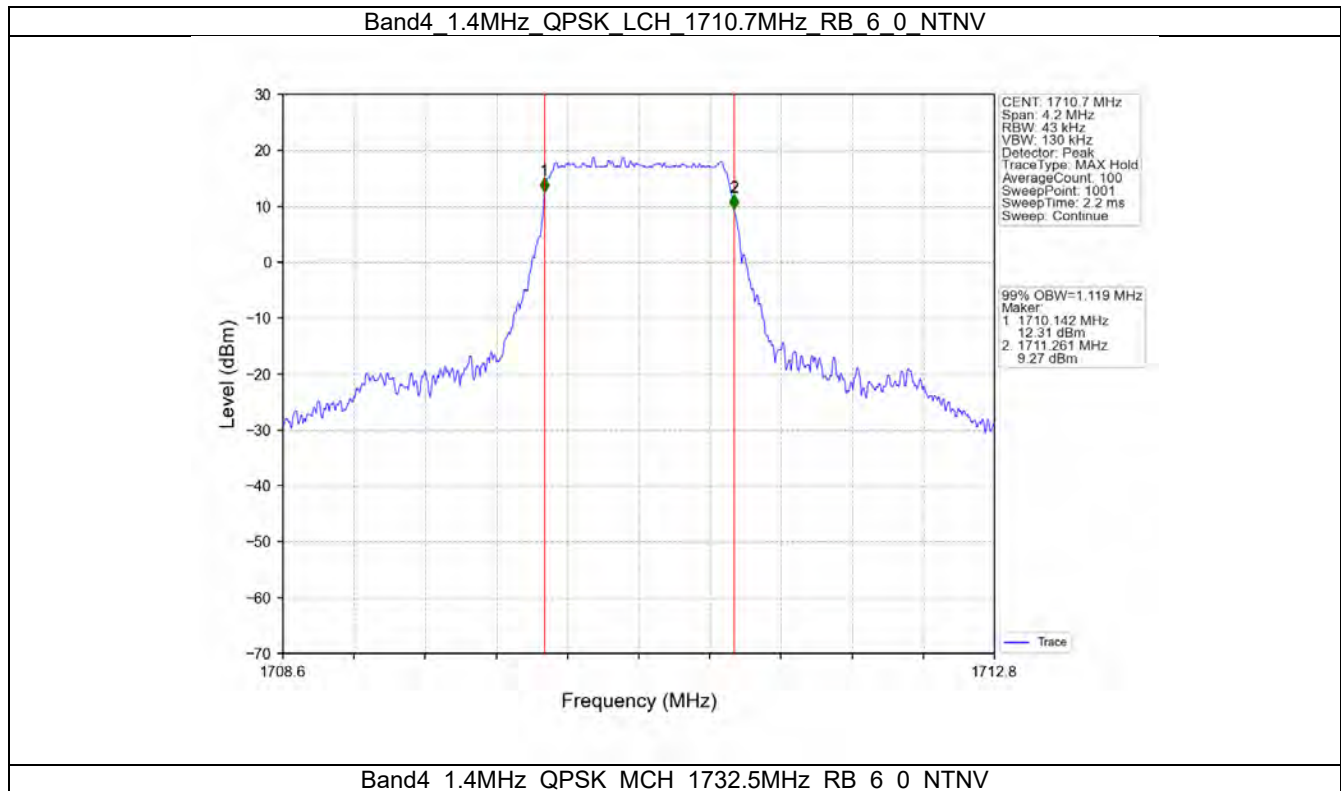
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4.1.2 Test Graph



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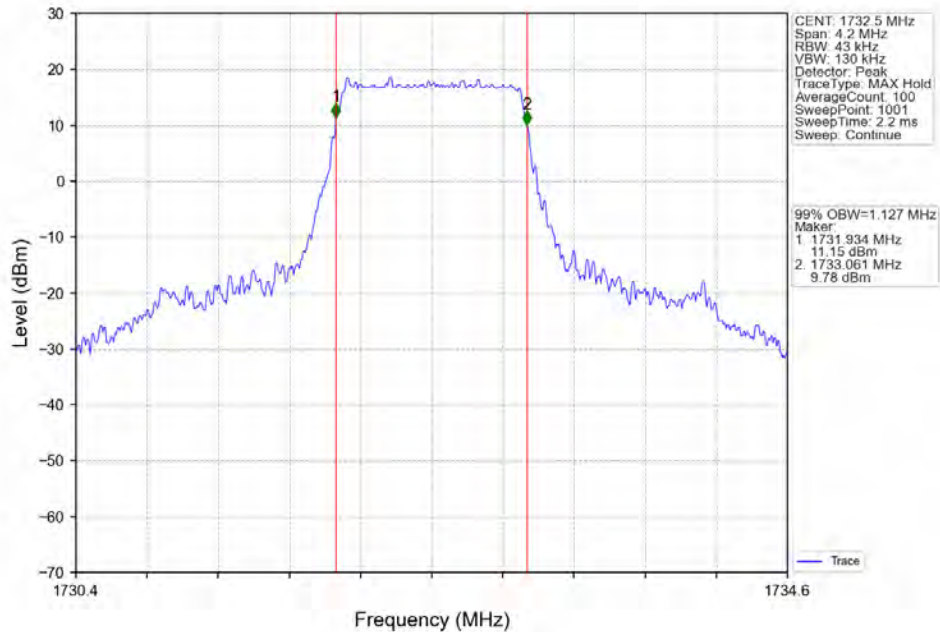
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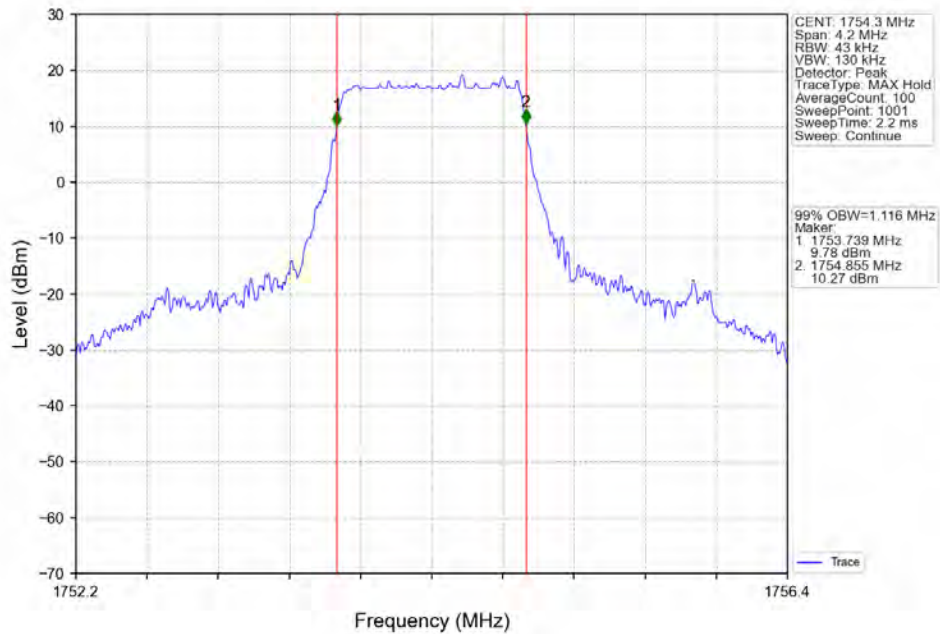
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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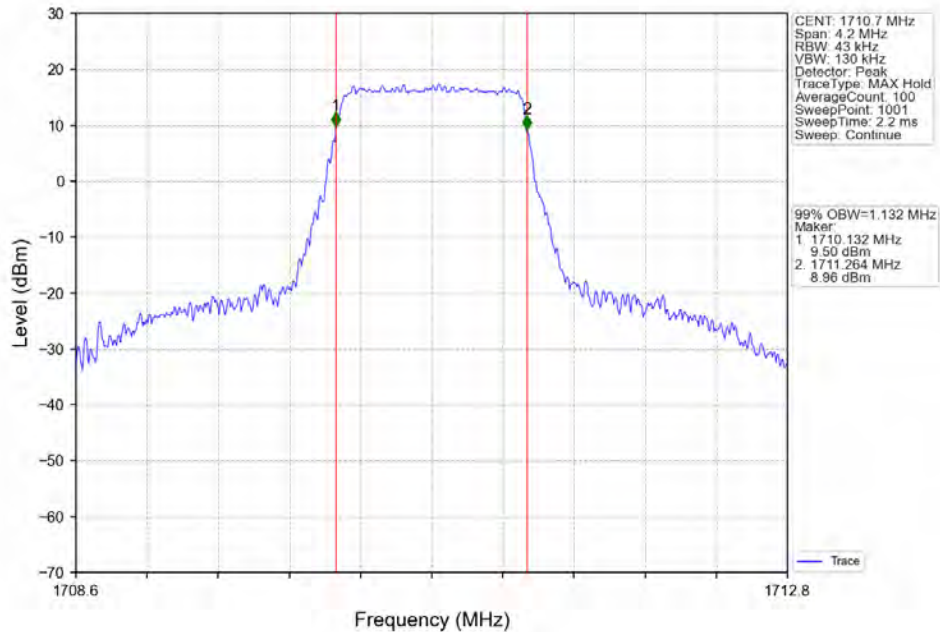
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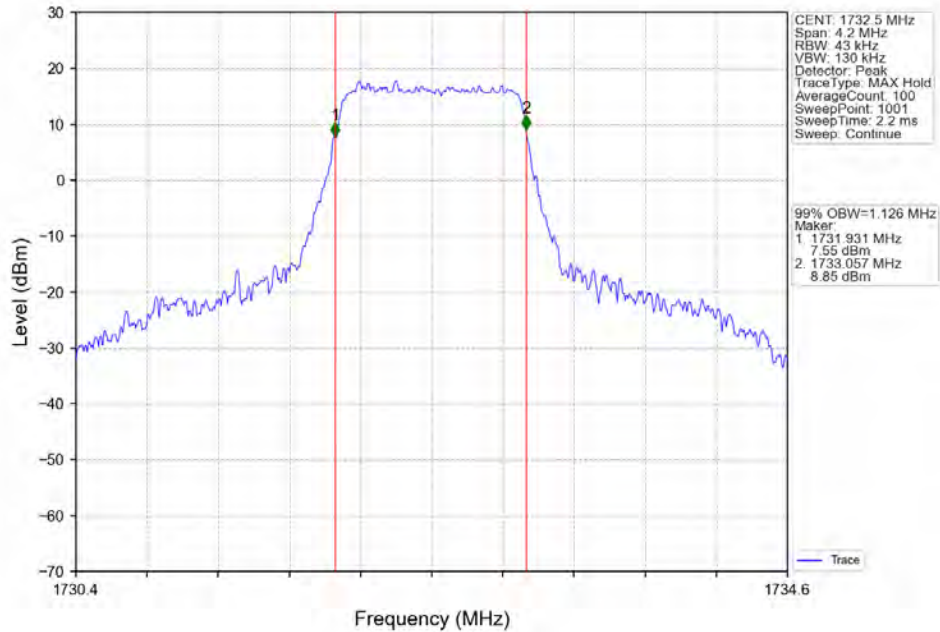
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Band4 1.4MHz 16QAM MCH 1732.5MHz RB 6 0 NTN



Band4 1.4MHz 16QAM HCH 1754.3MHz RB 6 0 NTN



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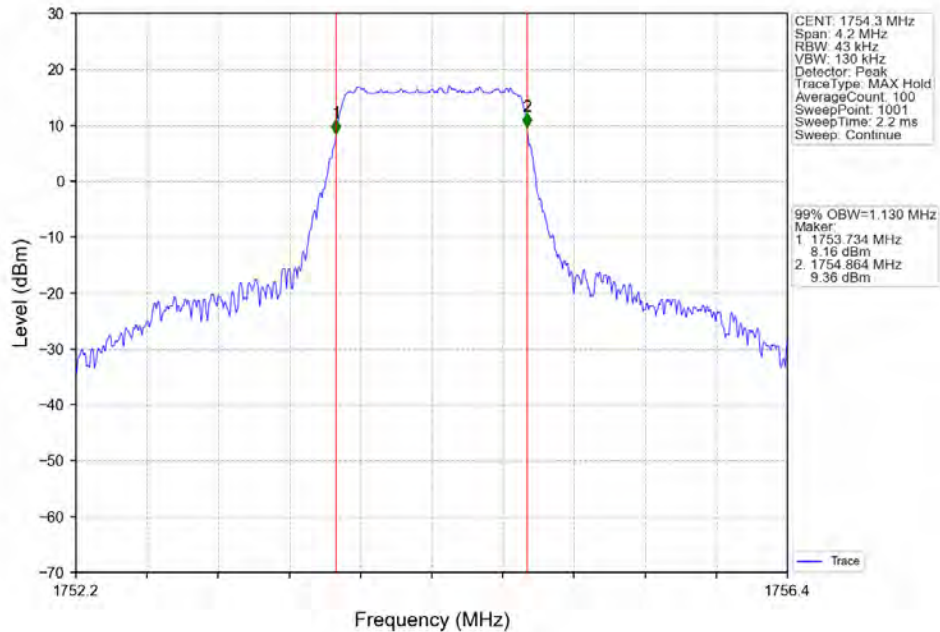
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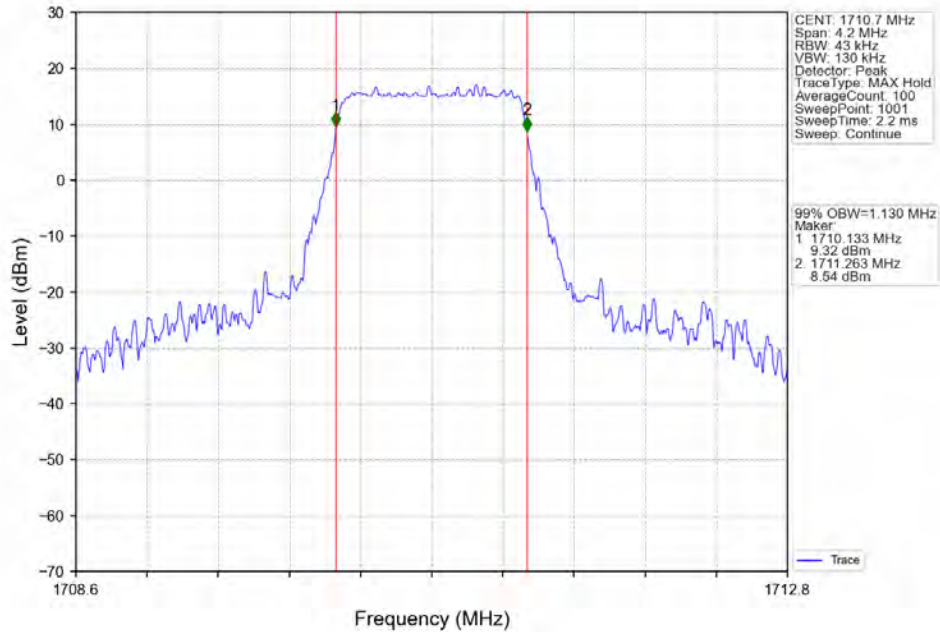
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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV



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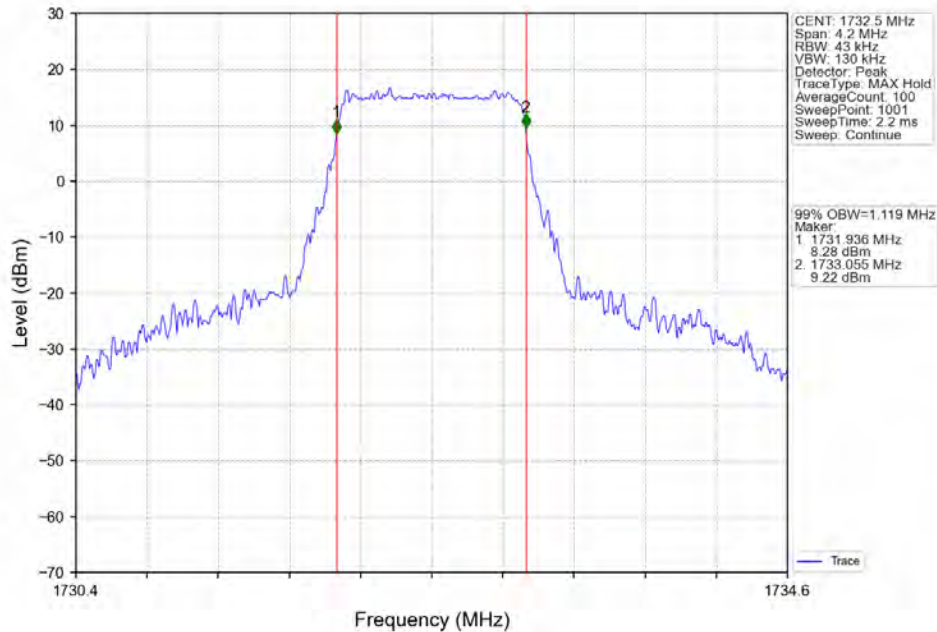
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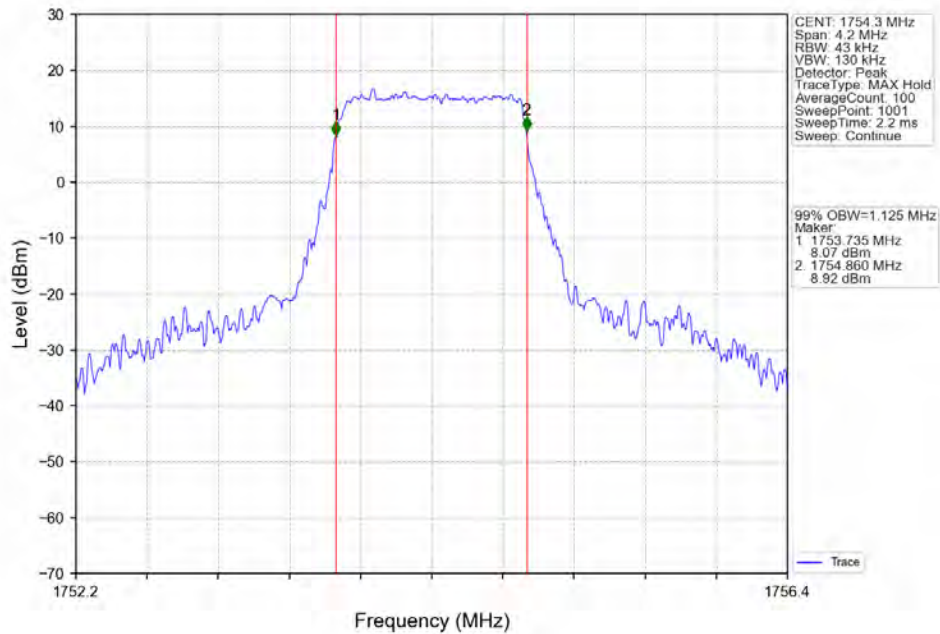
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Band4 1.4MHz 64QAM HCH 1754.3MHz RB 6 0 NTN



Band4 1.4MHz 256QAM LCH 1710.7MHz RB 6 0 NTN



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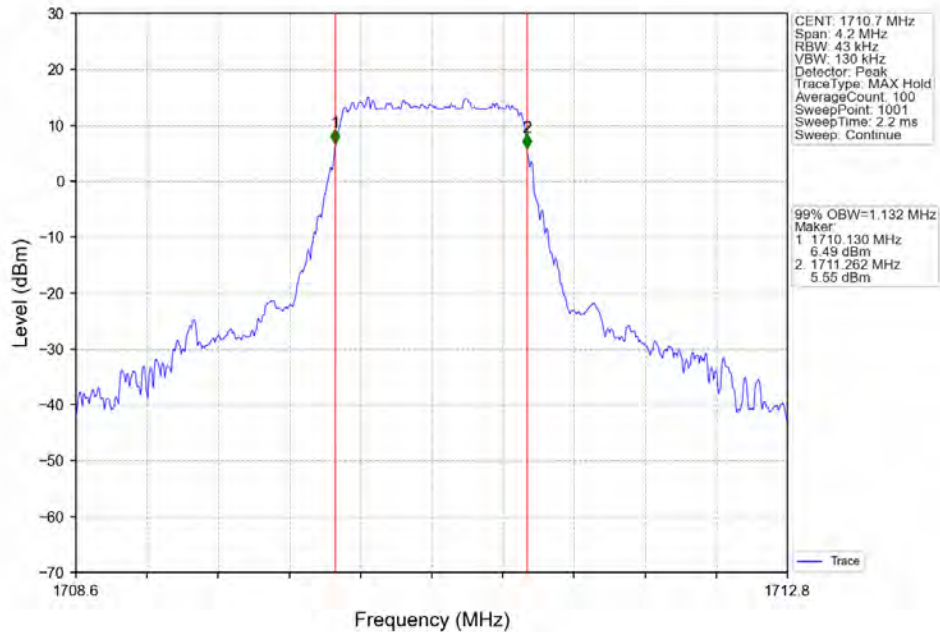
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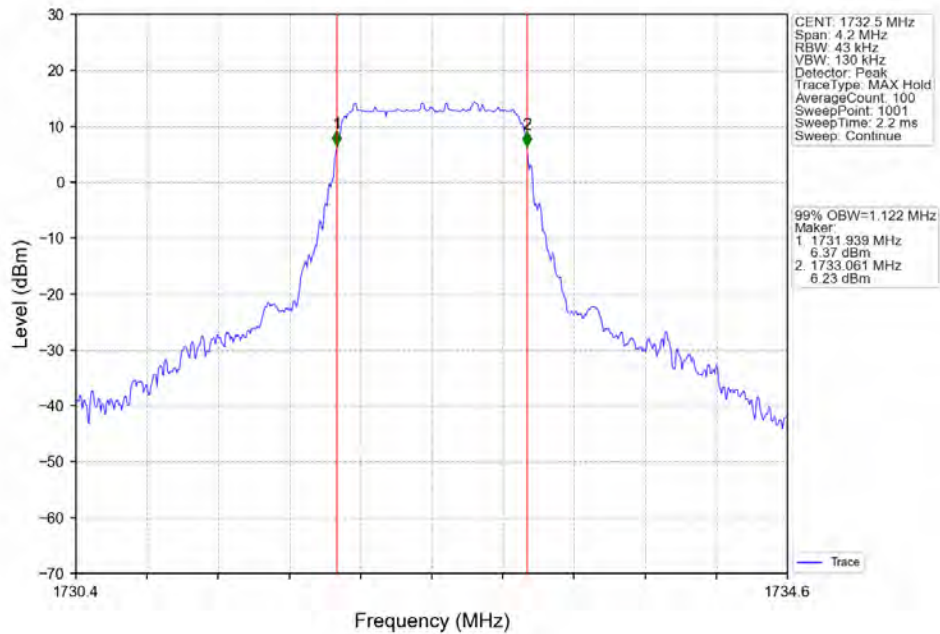
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Band4 1.4MHz 256QAM MCH 1732.5MHz RB 6 0 NTNV



Band4 1.4MHz 256QAM HCH 1754.3MHz RB 6 0 NTNV



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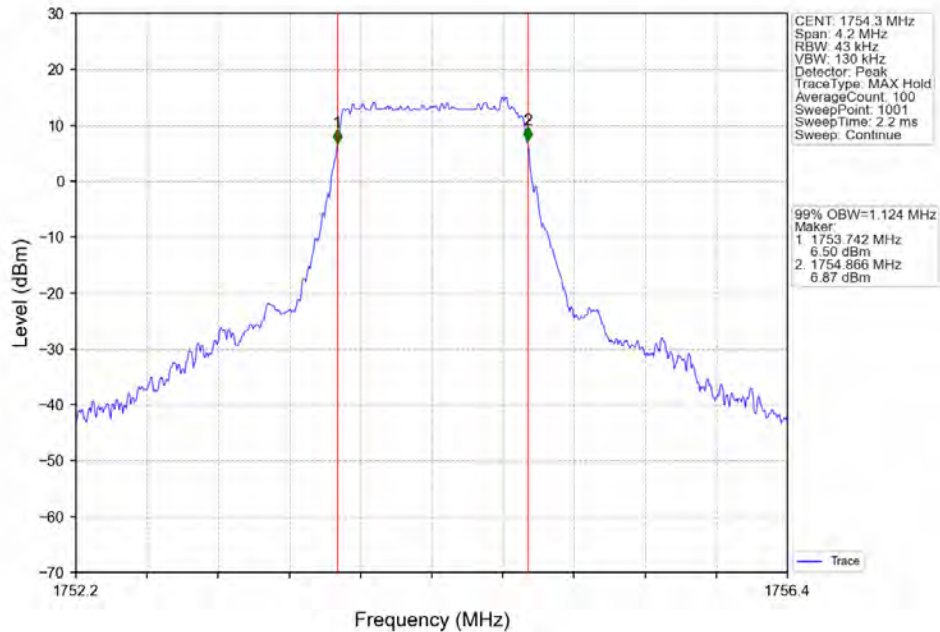
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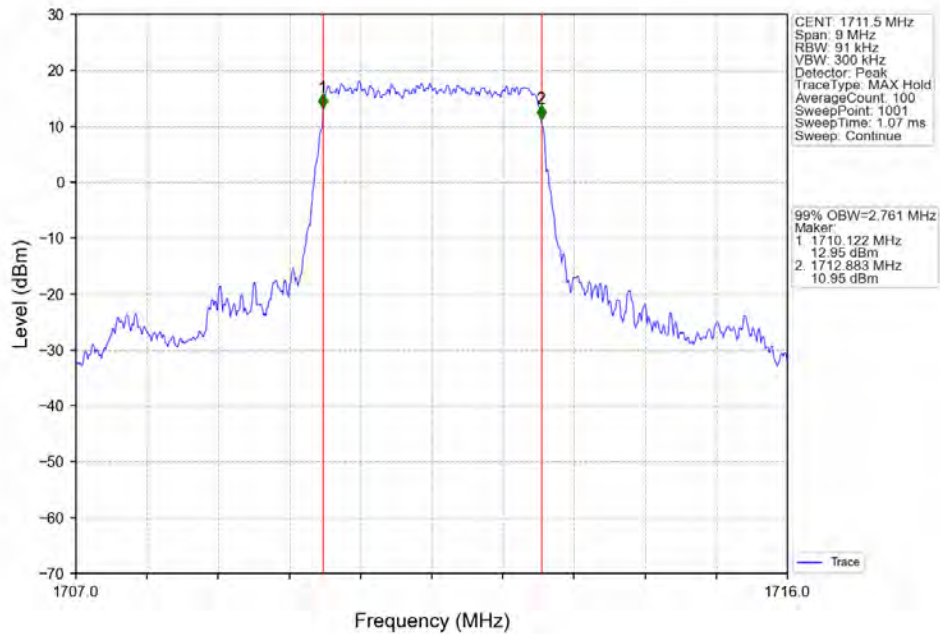
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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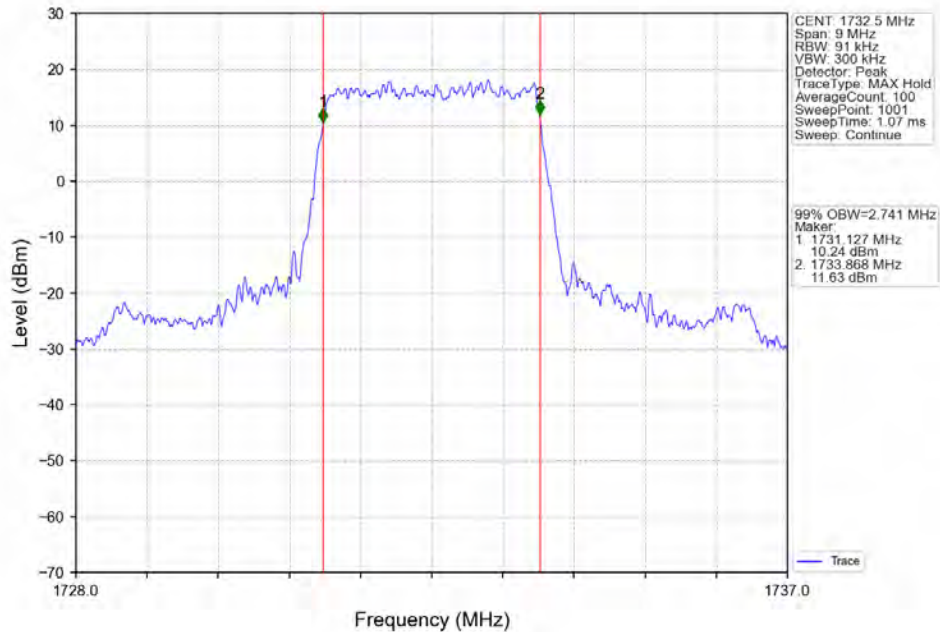
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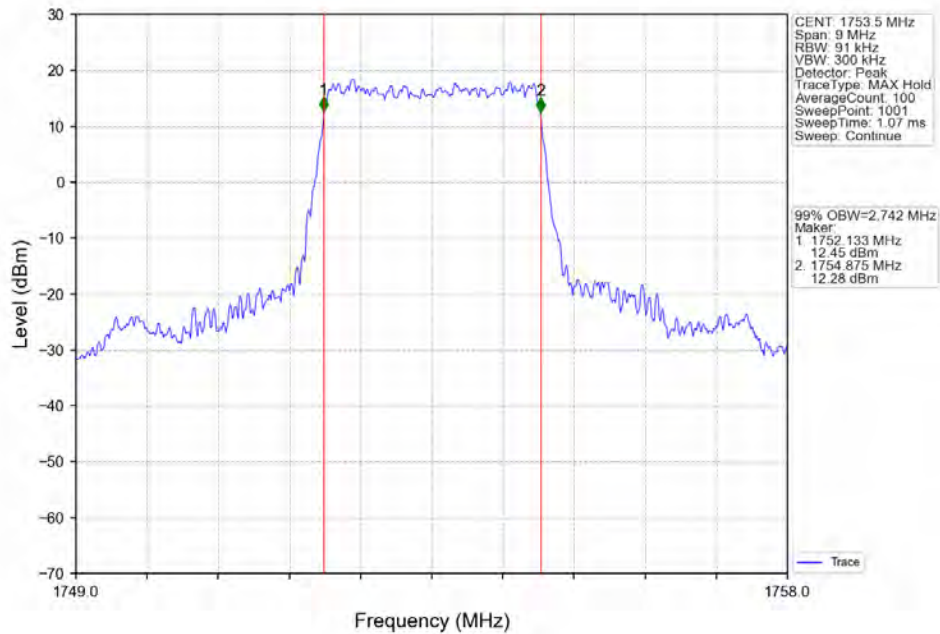
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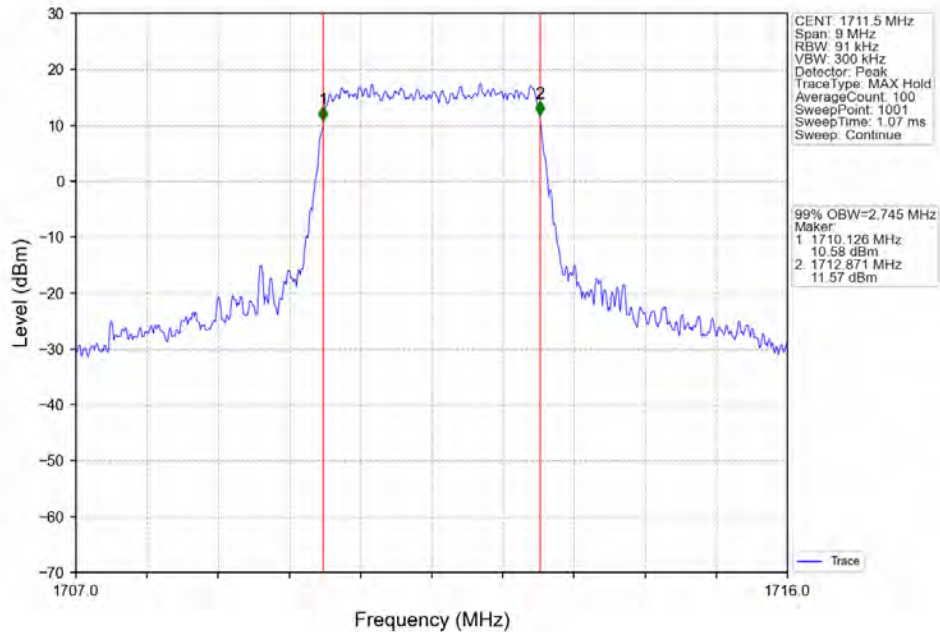
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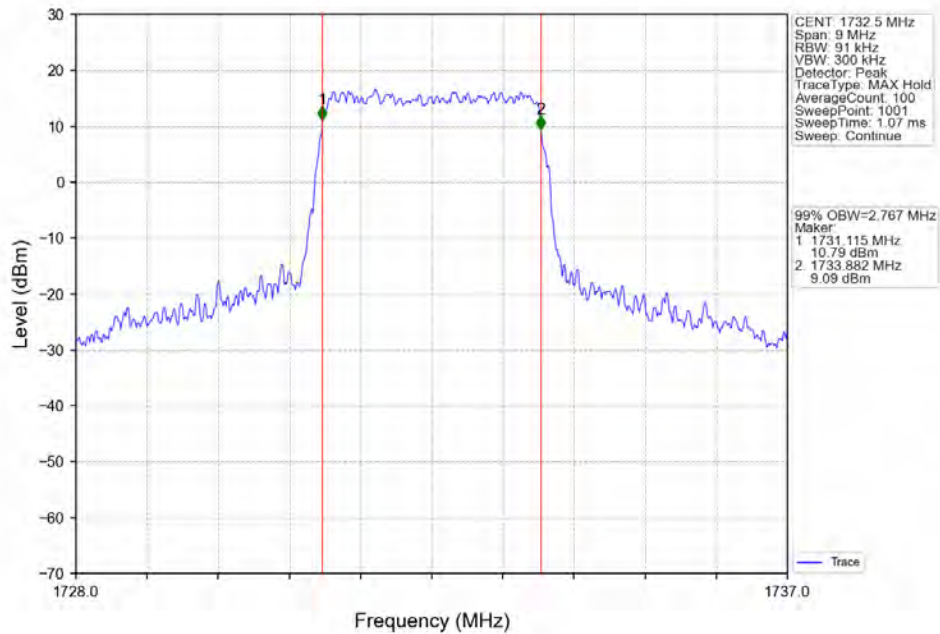
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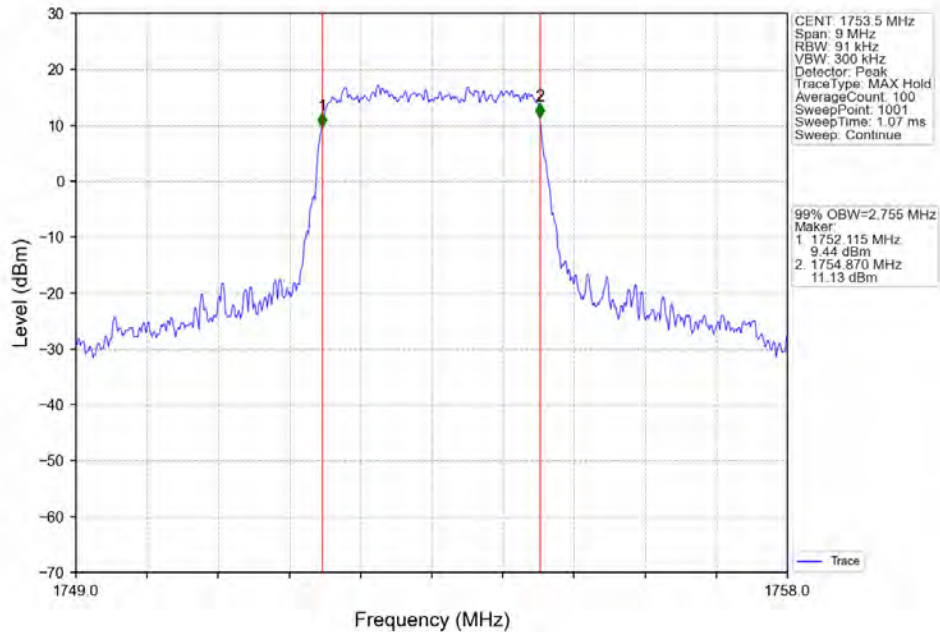
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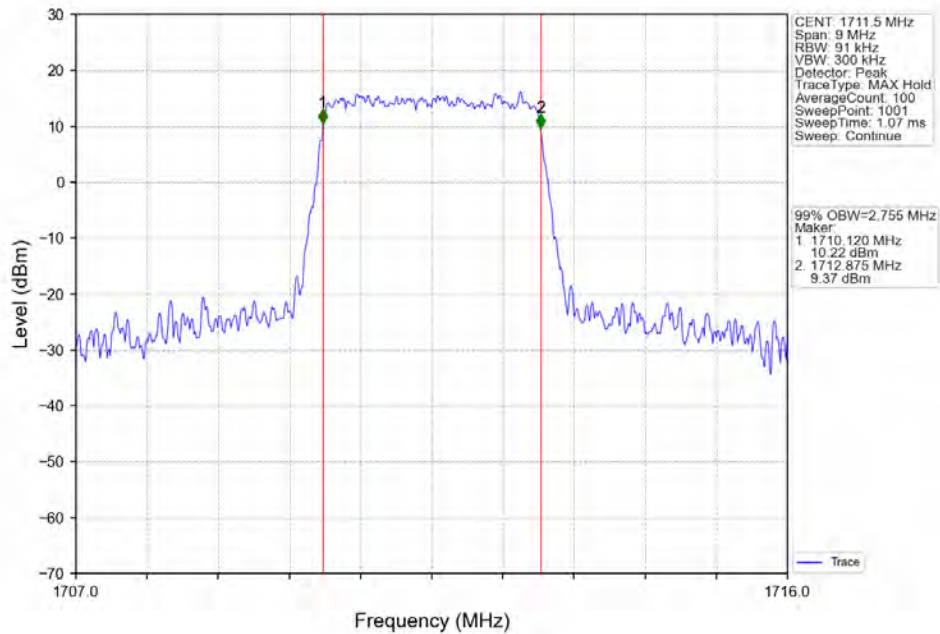
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Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV



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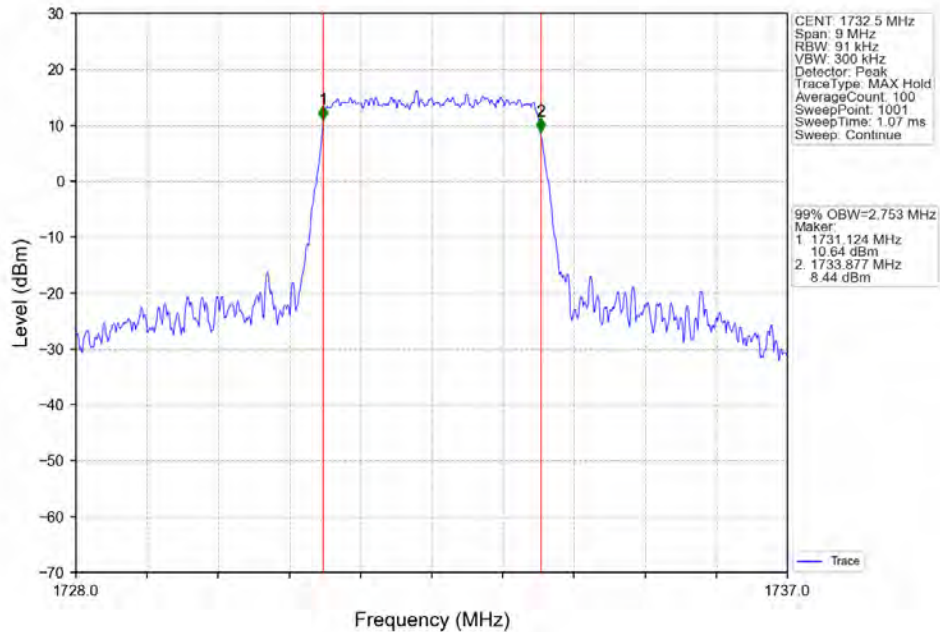
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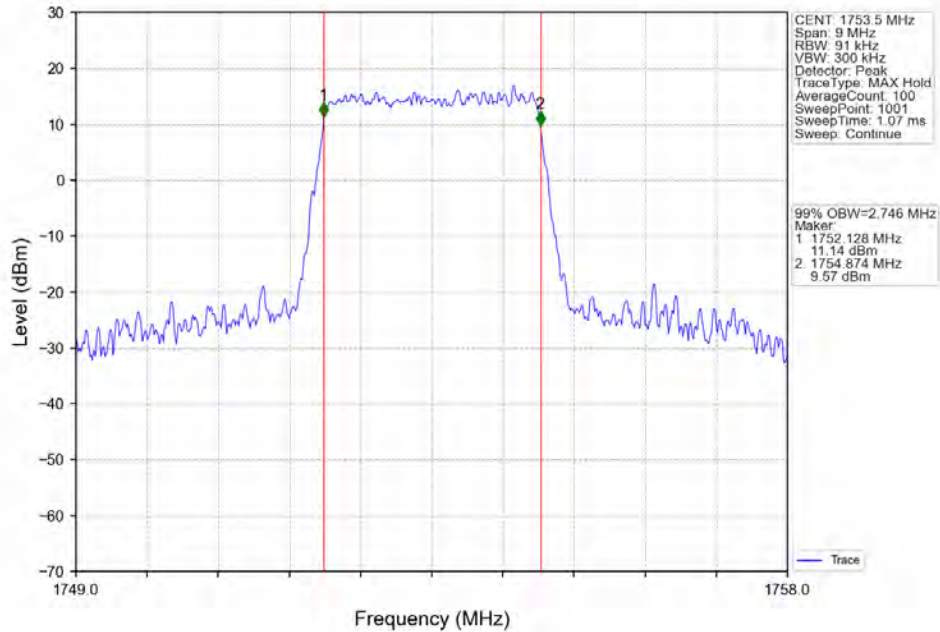
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Band4_3MHz_256QAM_LCH_1711.5MHz_RB_15_0_NTNV



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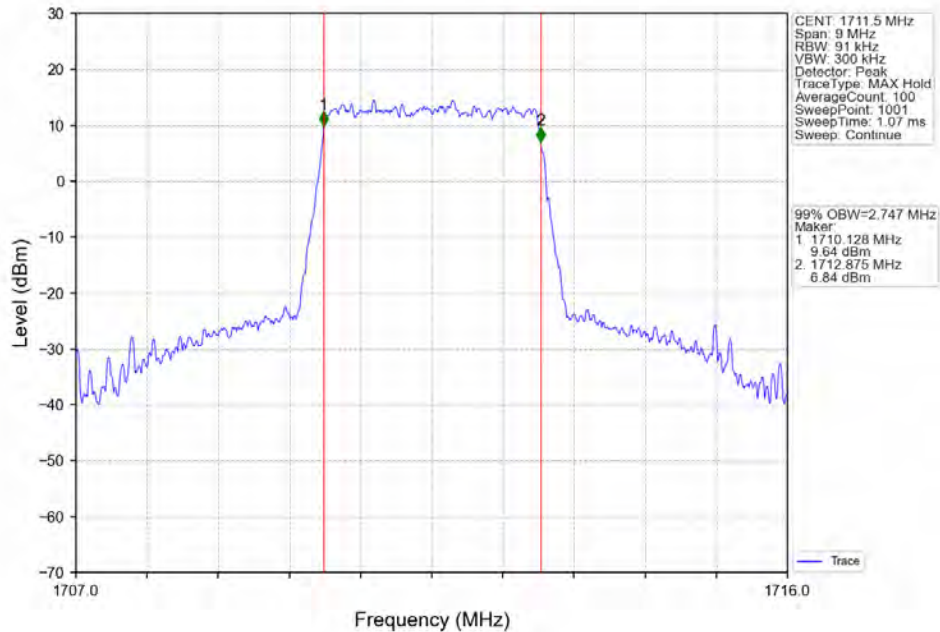
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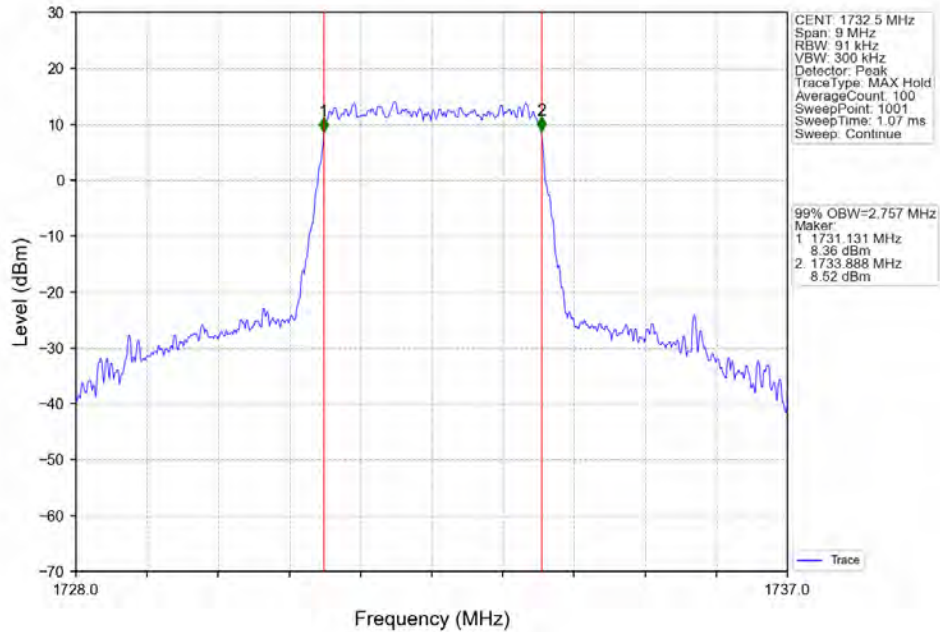
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Band4_3MHz_256QAM_HCH_1753.5MHz_RB_15_0_NTNV



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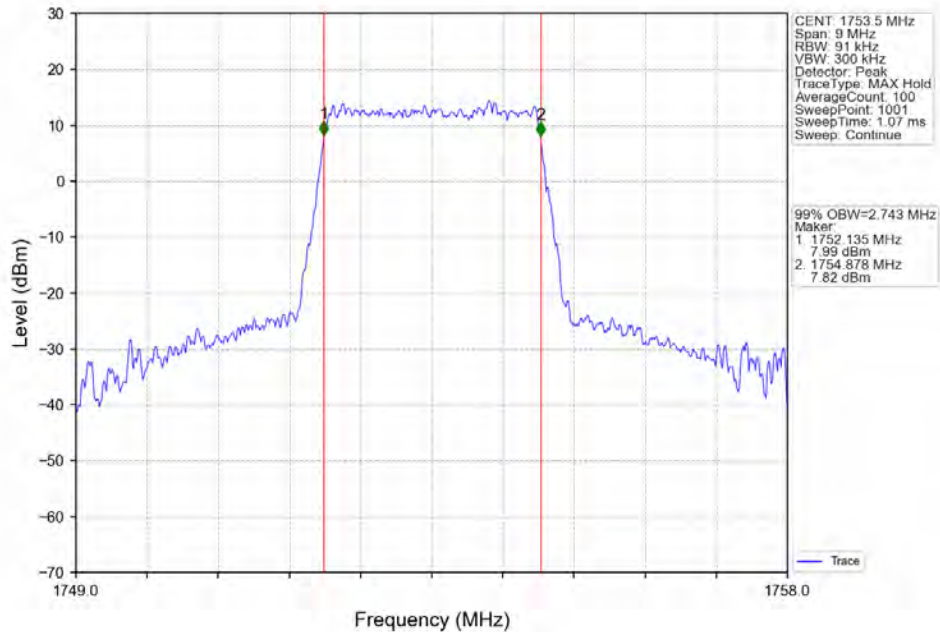
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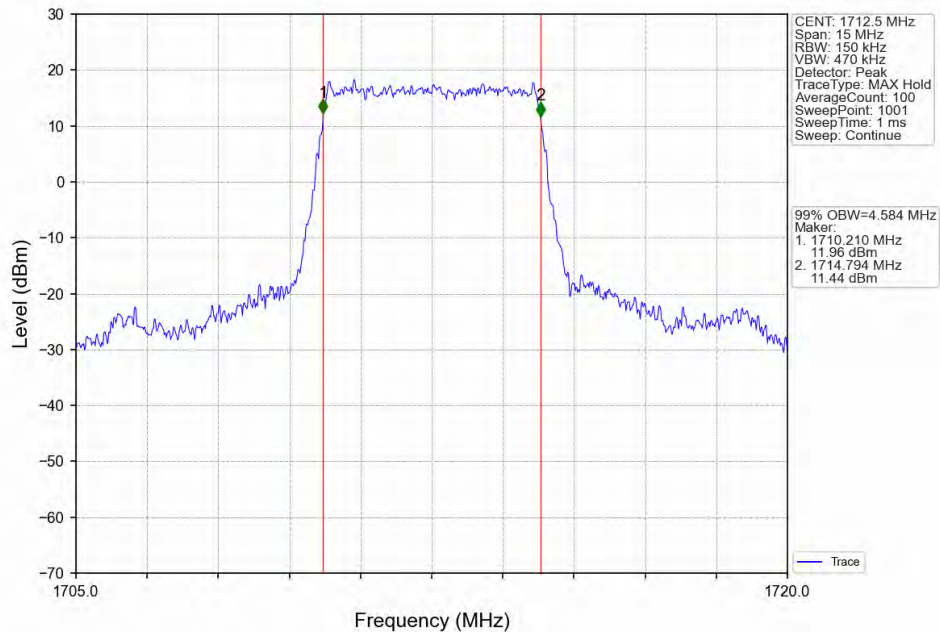
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Band4 5MHz QPSK LCH 1712.5MHz RB 25 0 NTNV



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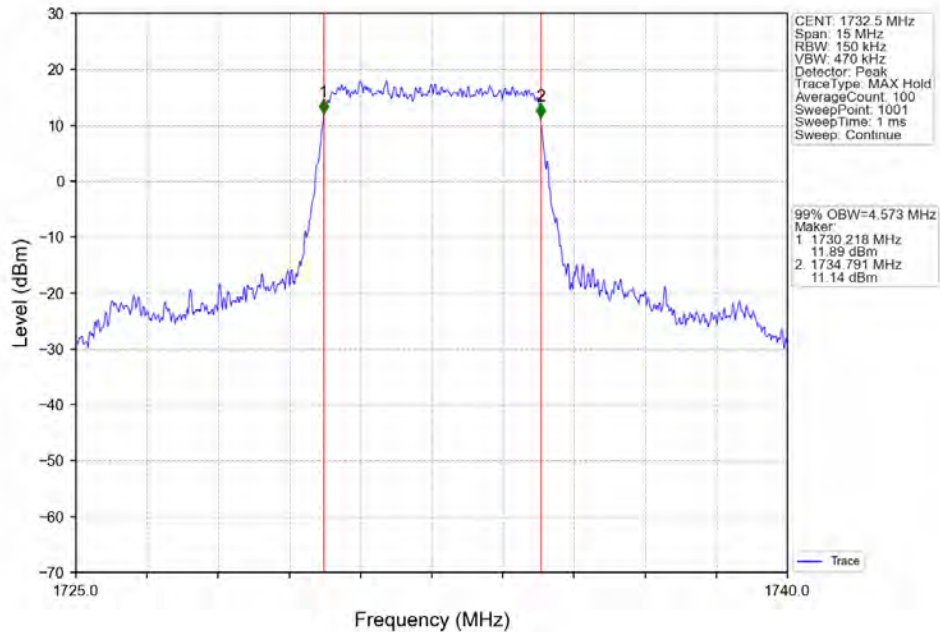
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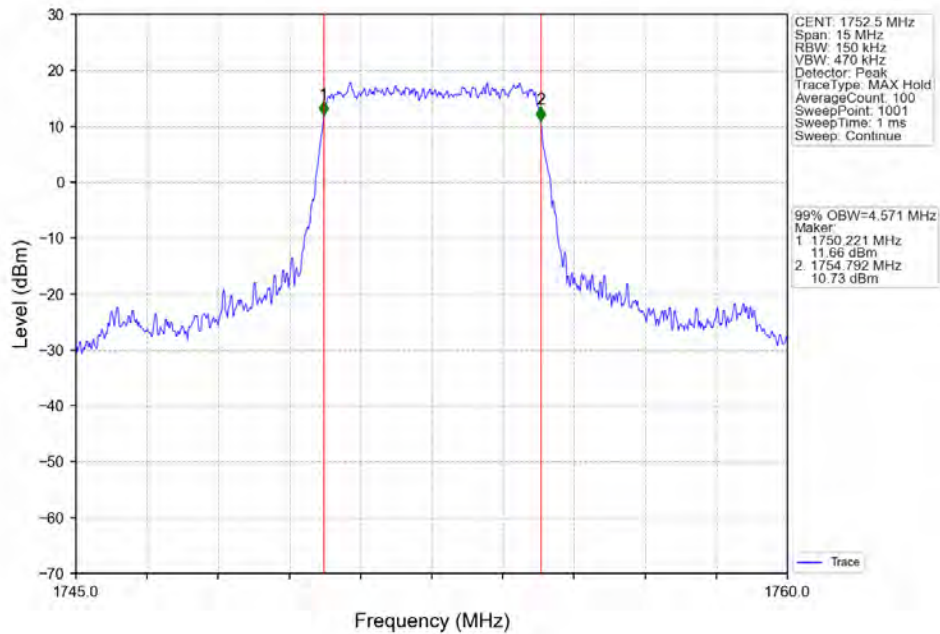
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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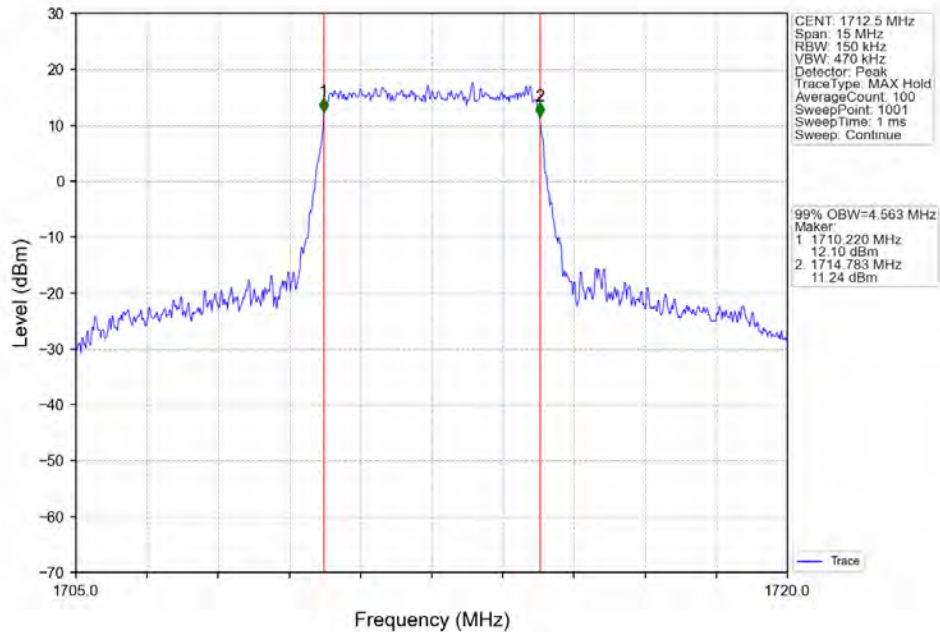
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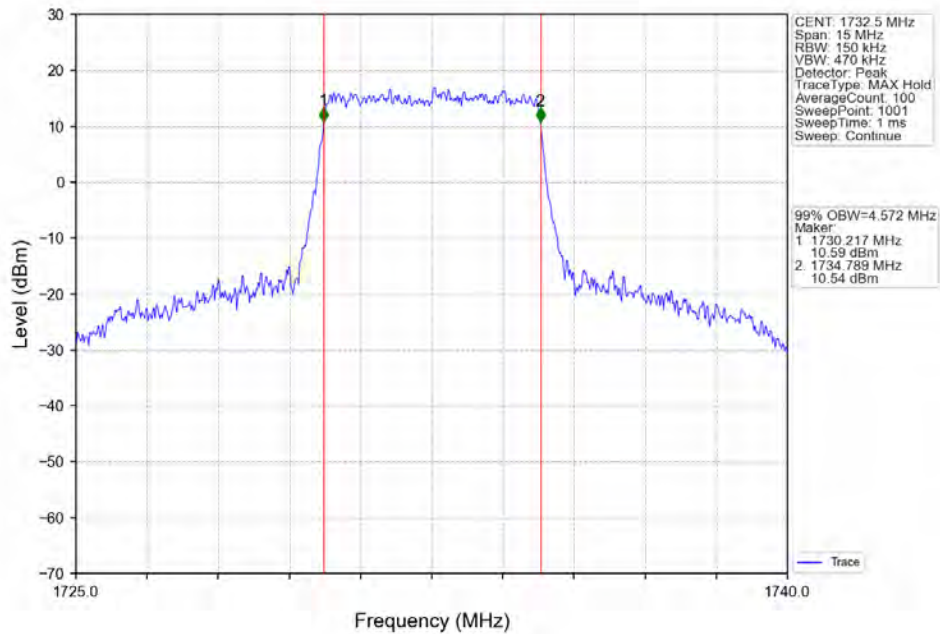
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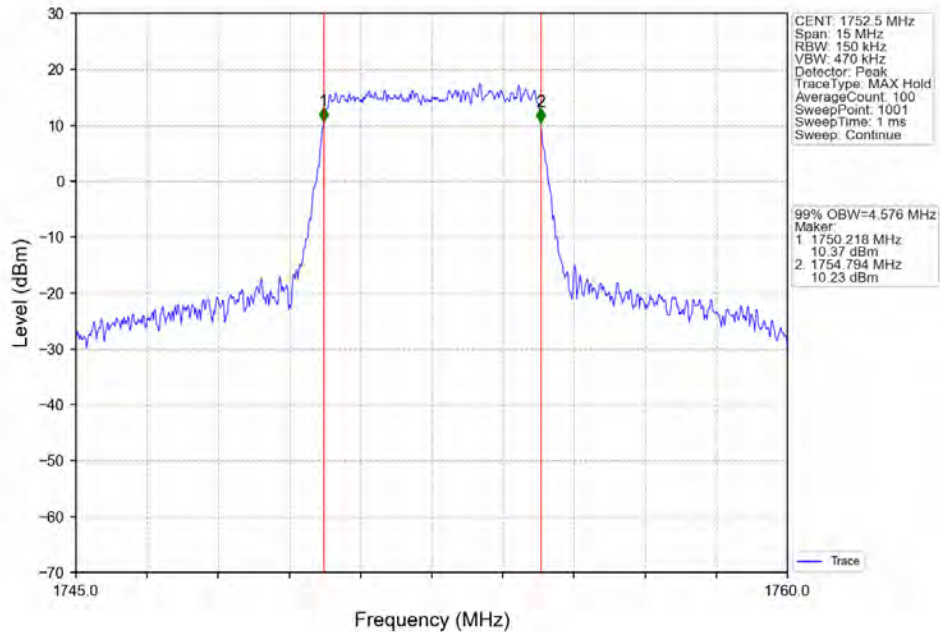
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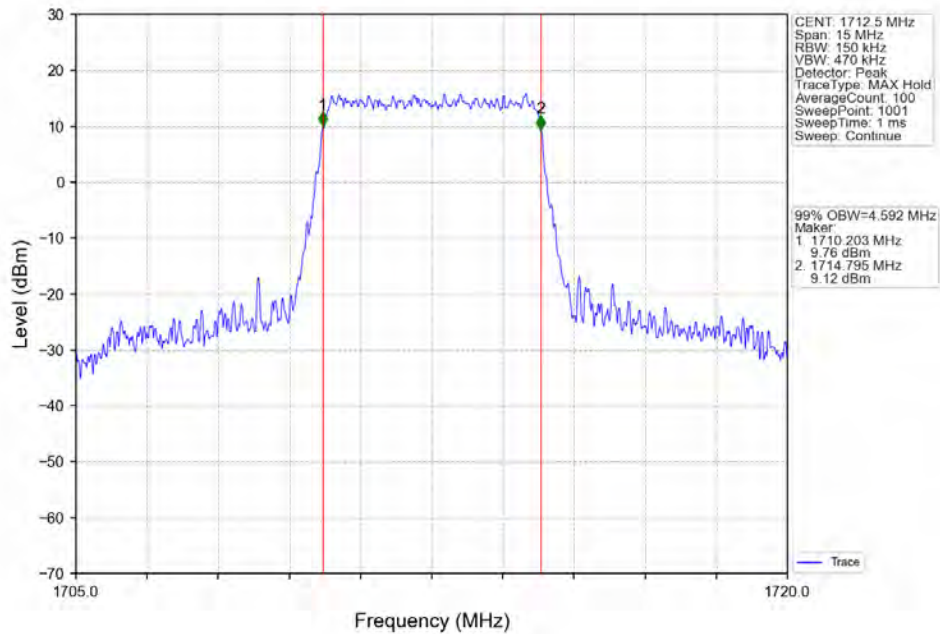
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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV



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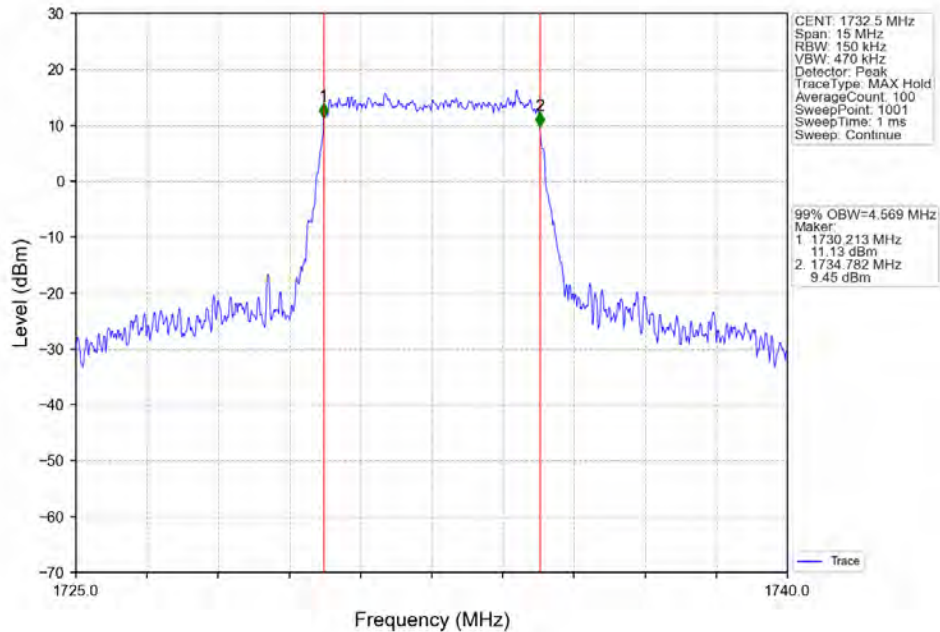
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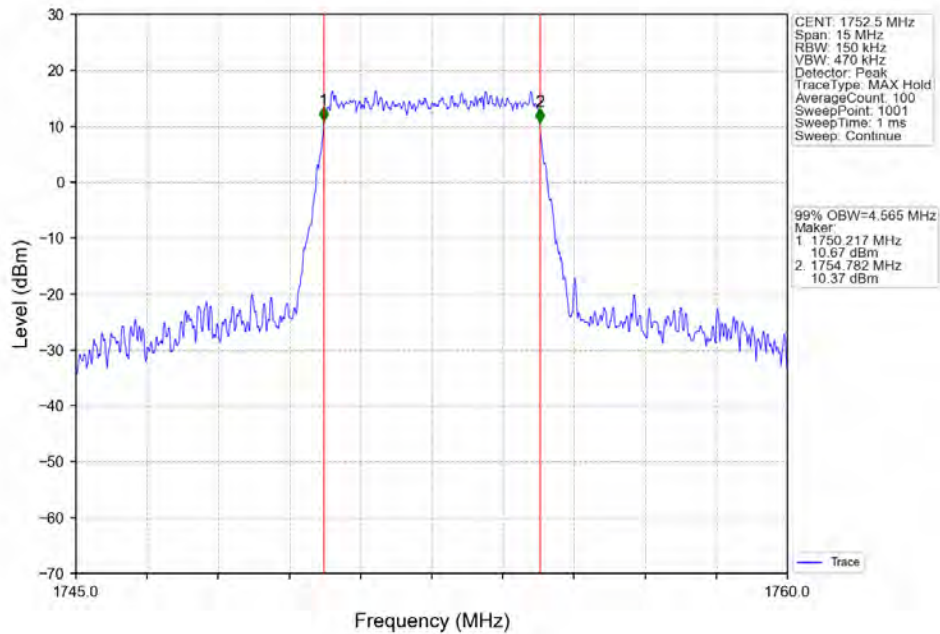
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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_LCH_1712.5MHz_RB_25_0_NTNV



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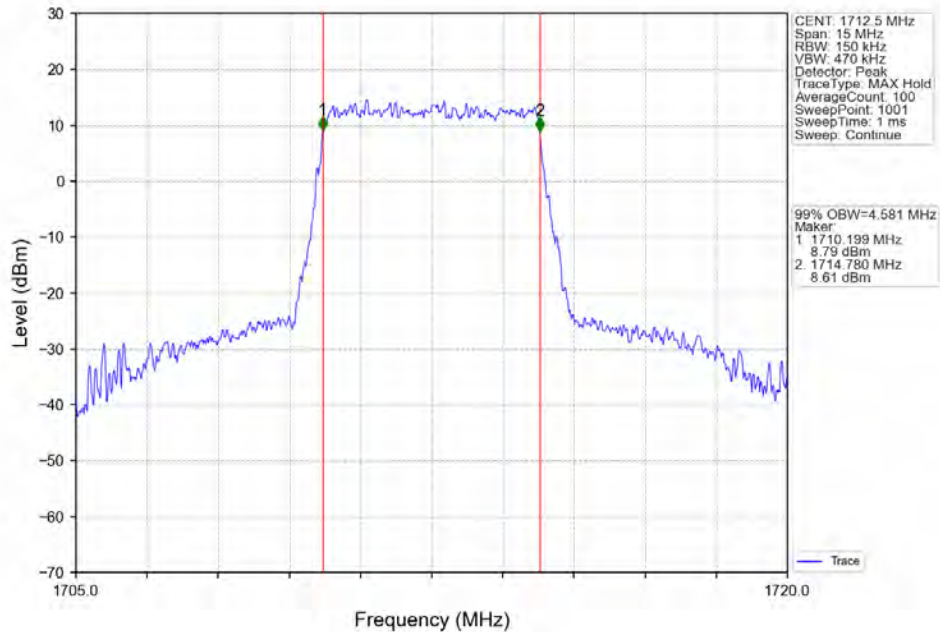
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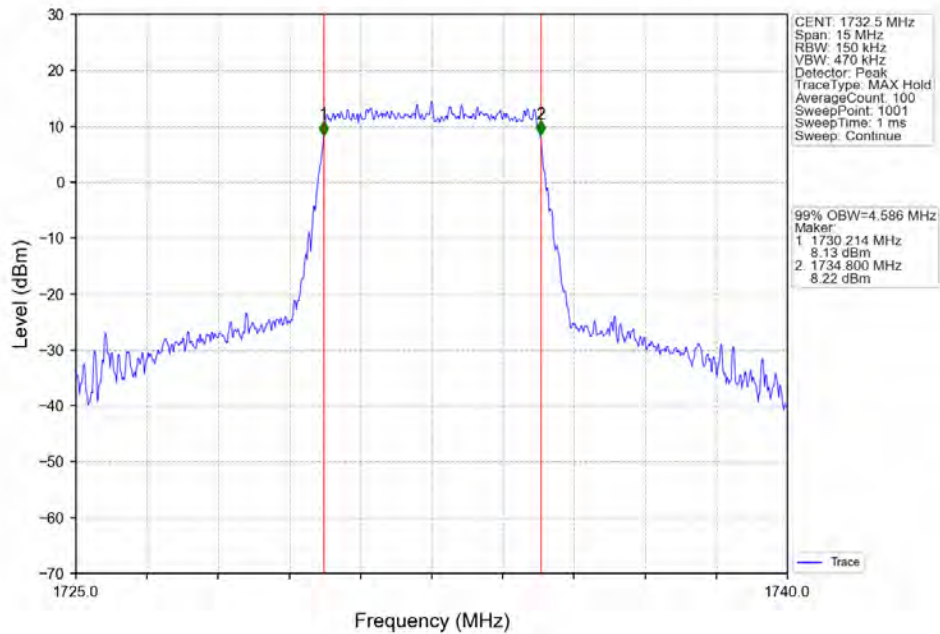
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Band4_5MHz_256QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_HCH_1752.5MHz_RB_25_0_NTNV



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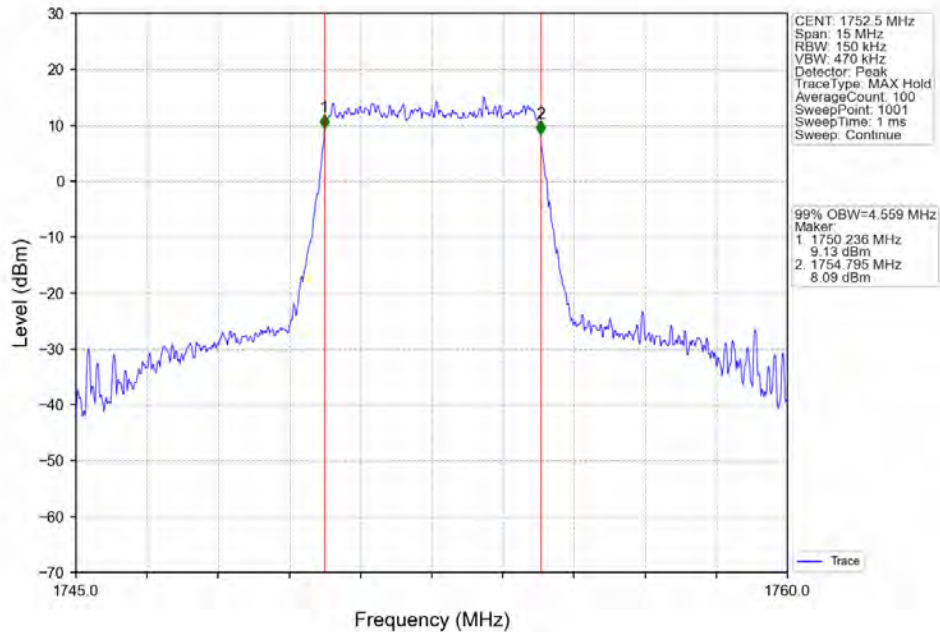
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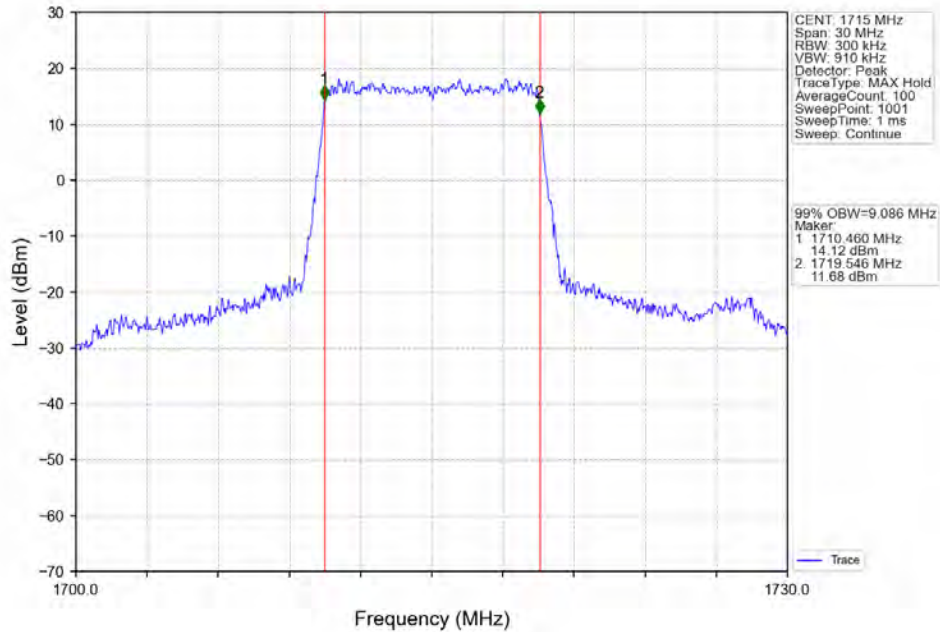
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Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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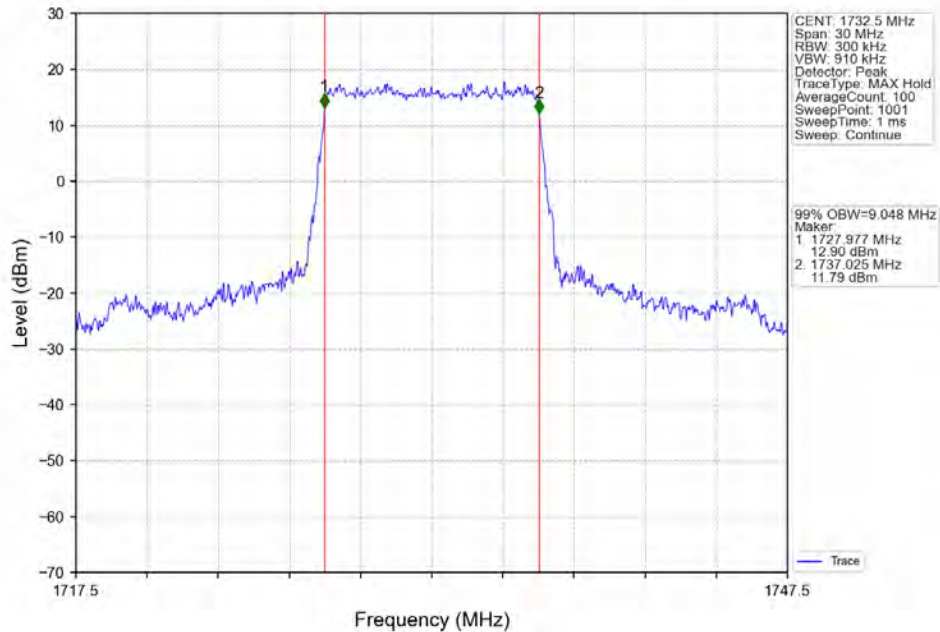
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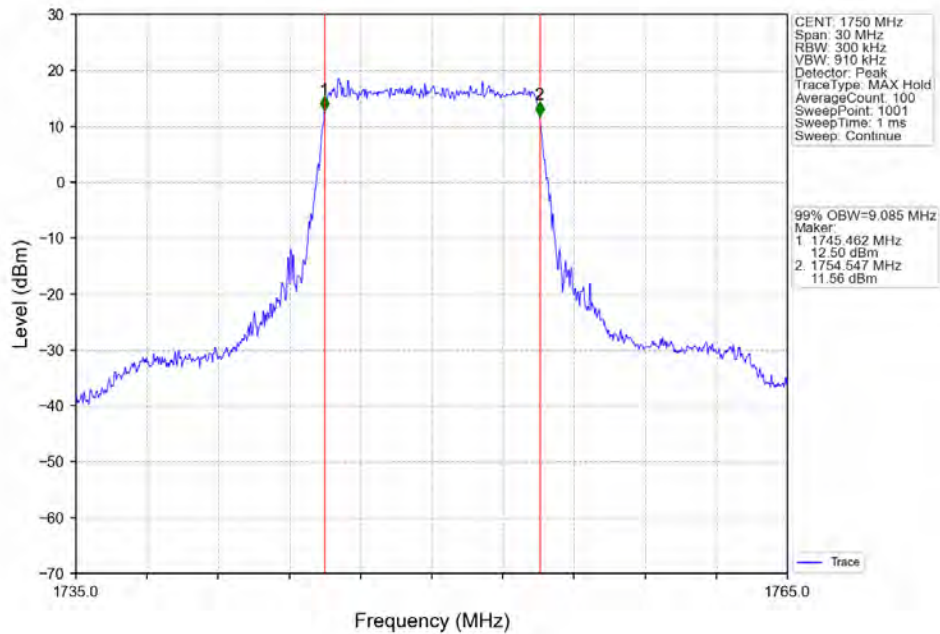
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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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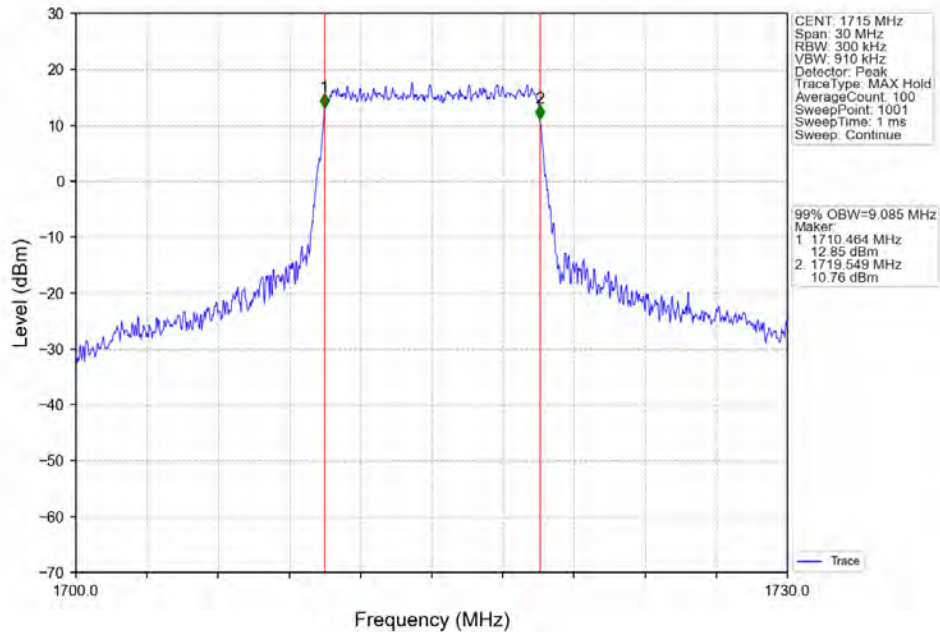
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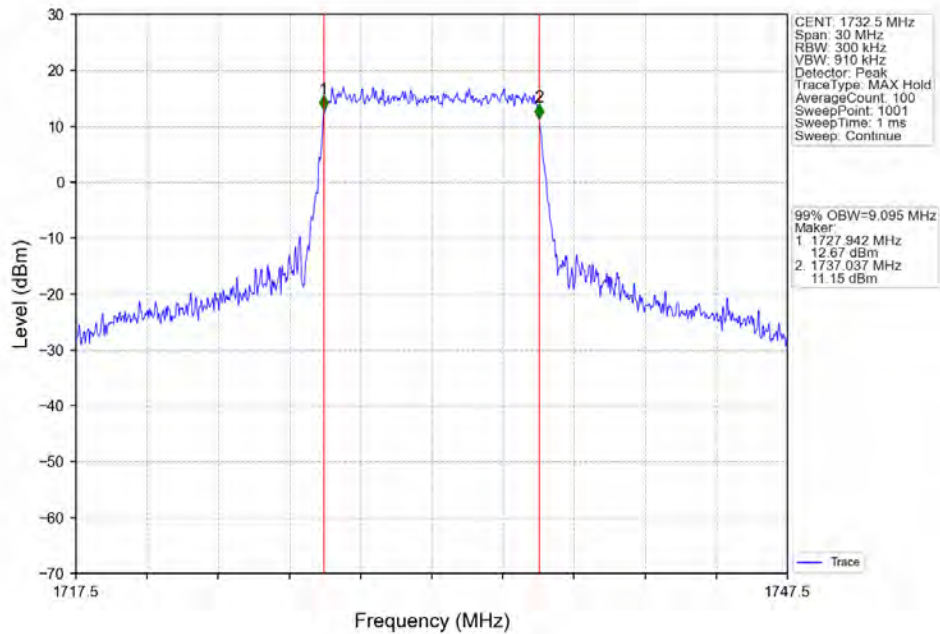
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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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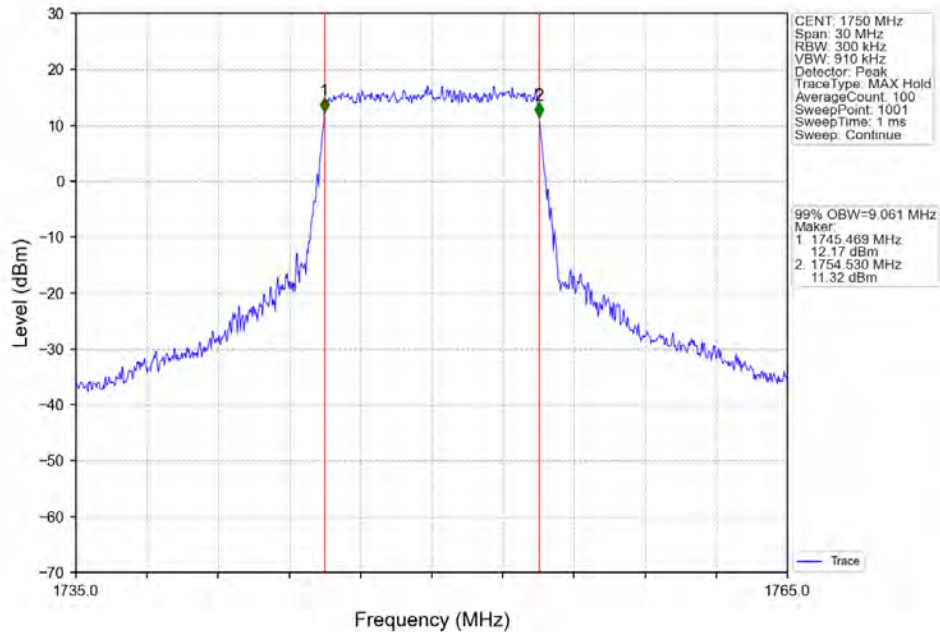
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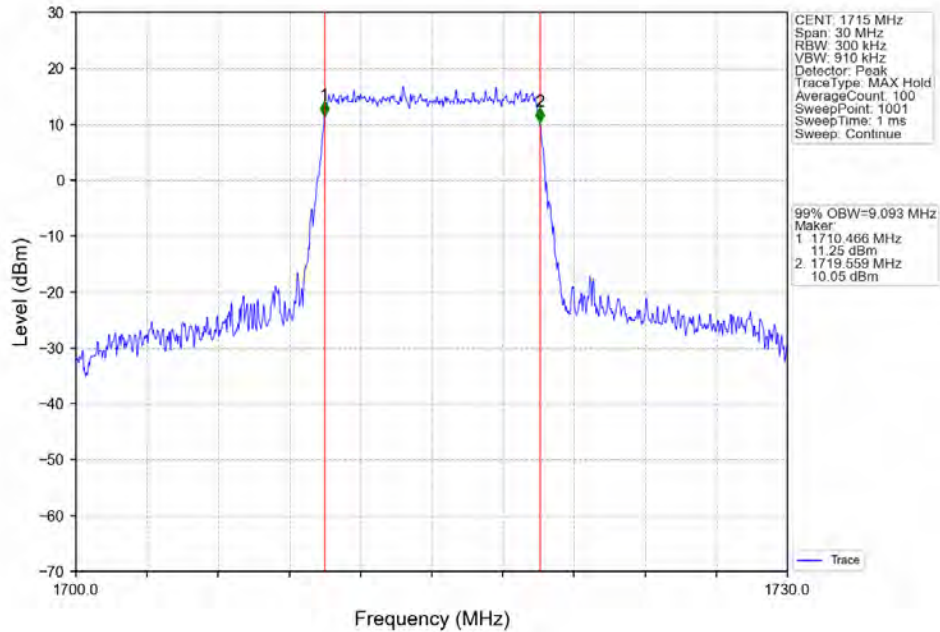
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Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV



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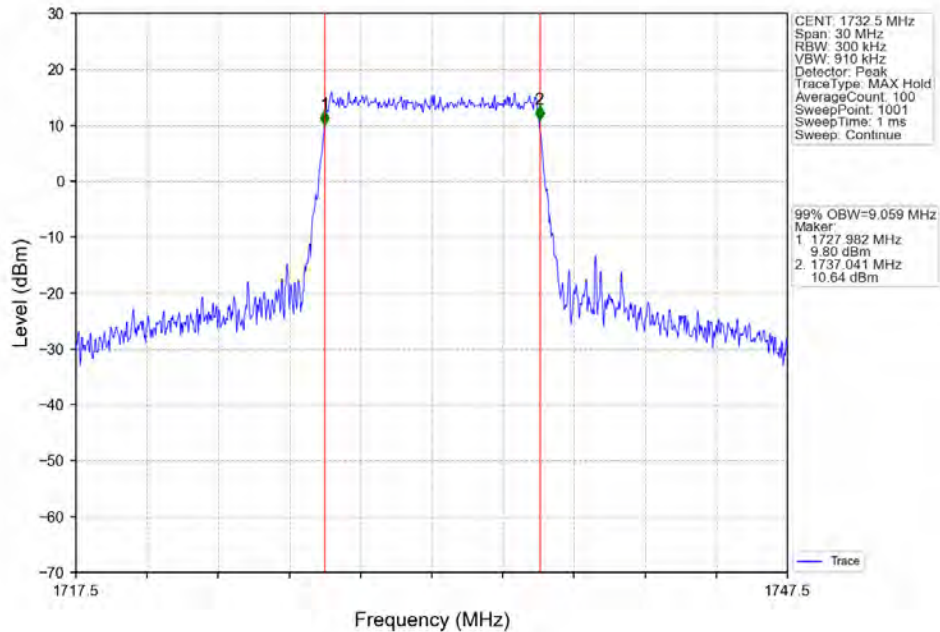
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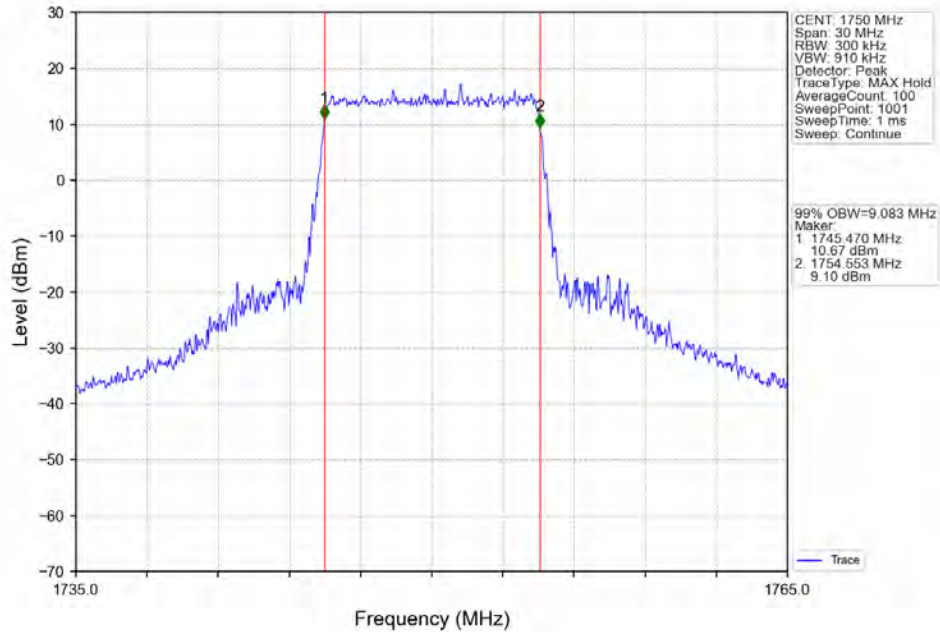
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Band4_10MHz_256QAM_LCH_1715MHz_RB_50_0_NTNV



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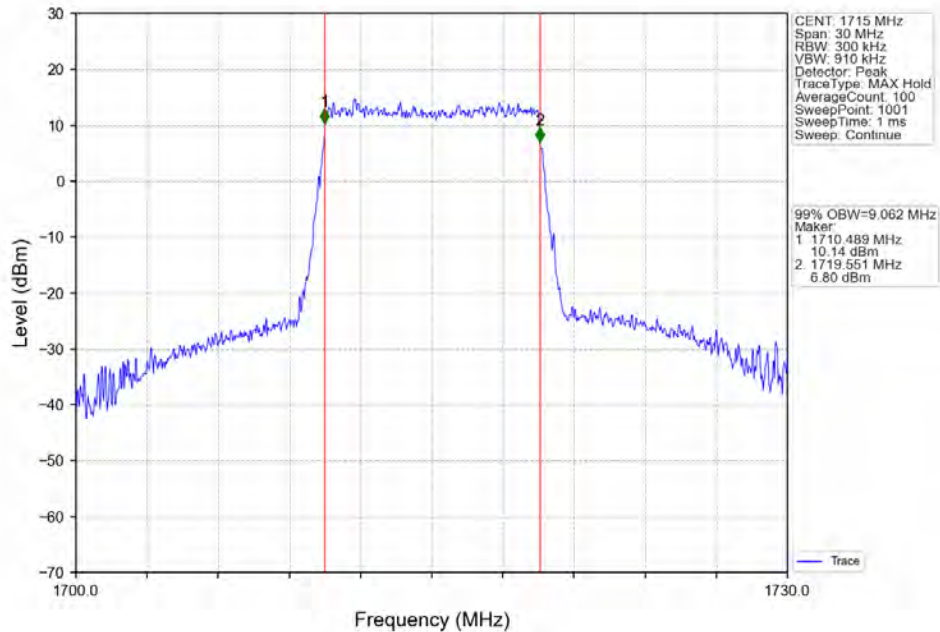
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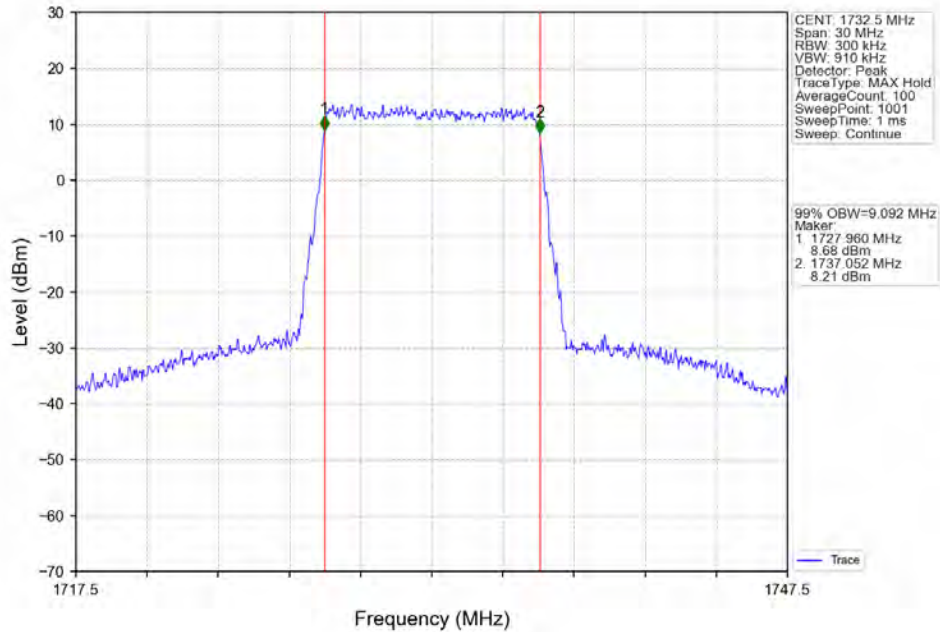
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Band4_10MHz_256QAM_HCH_1750MHz_RB_50_0_NTNV



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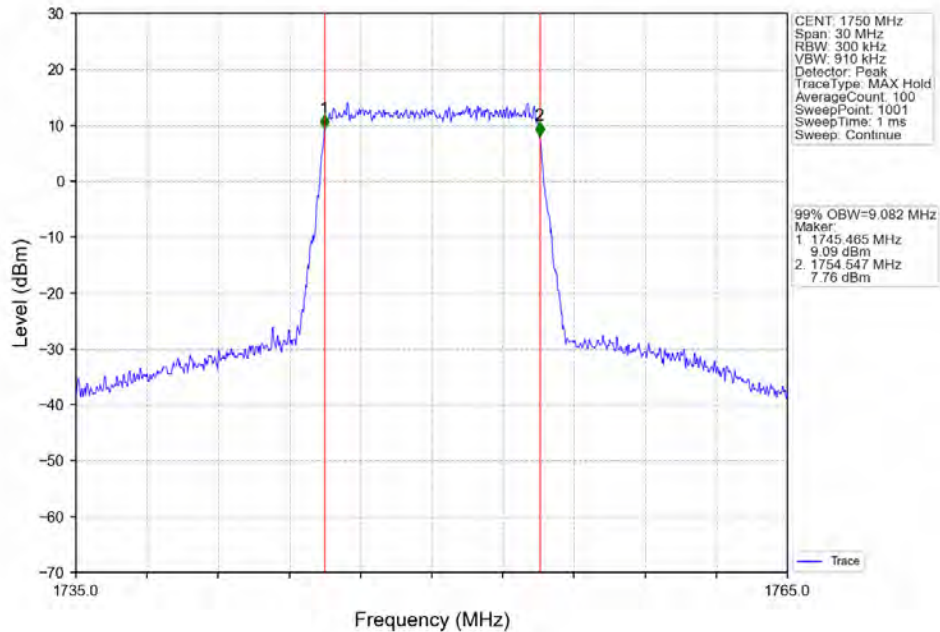
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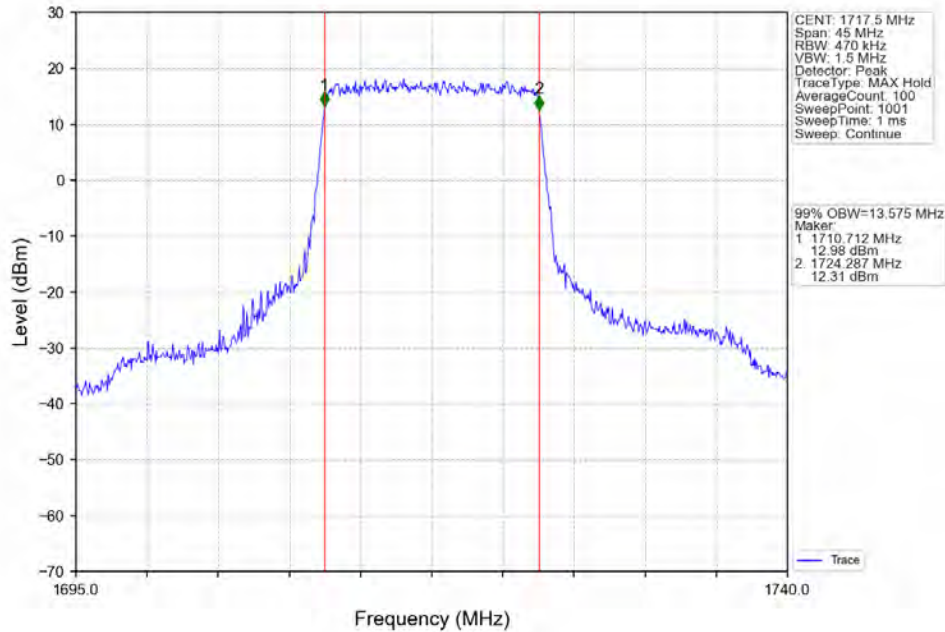
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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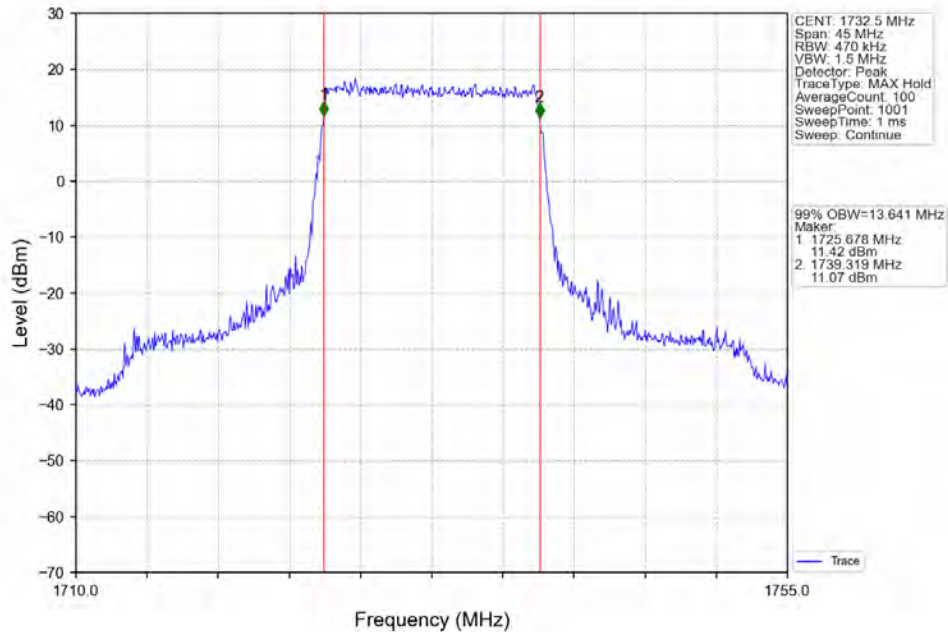
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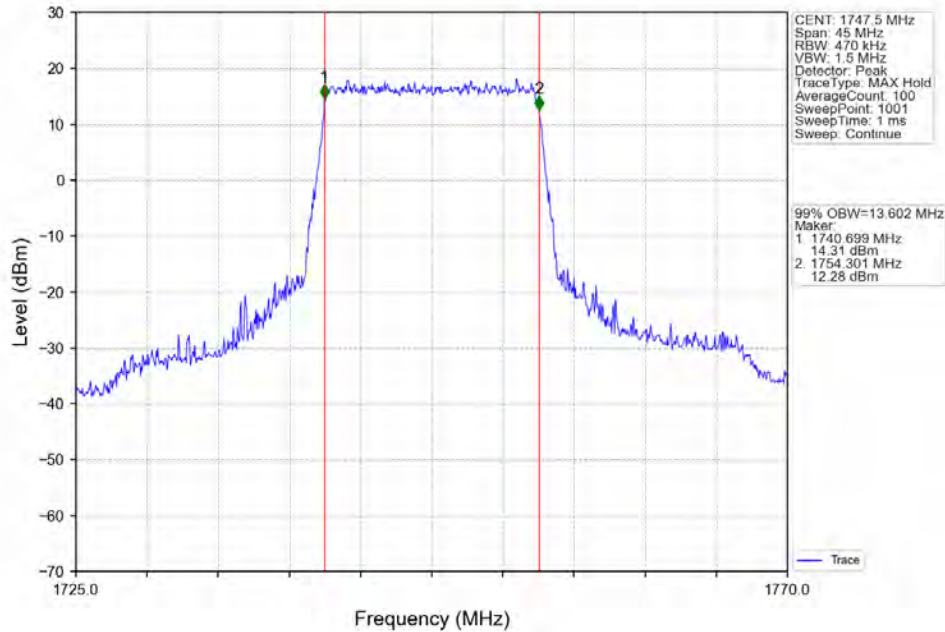
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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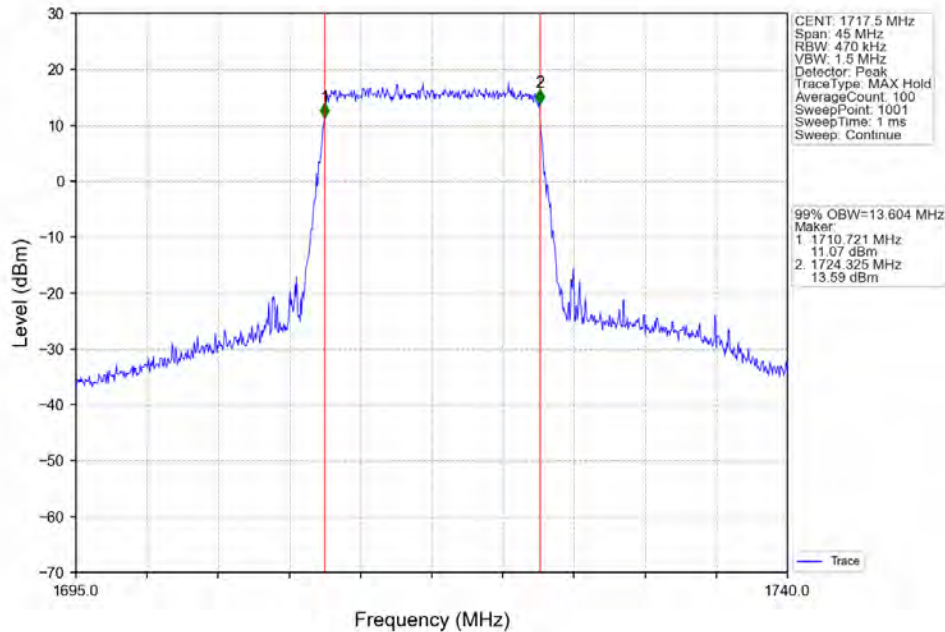
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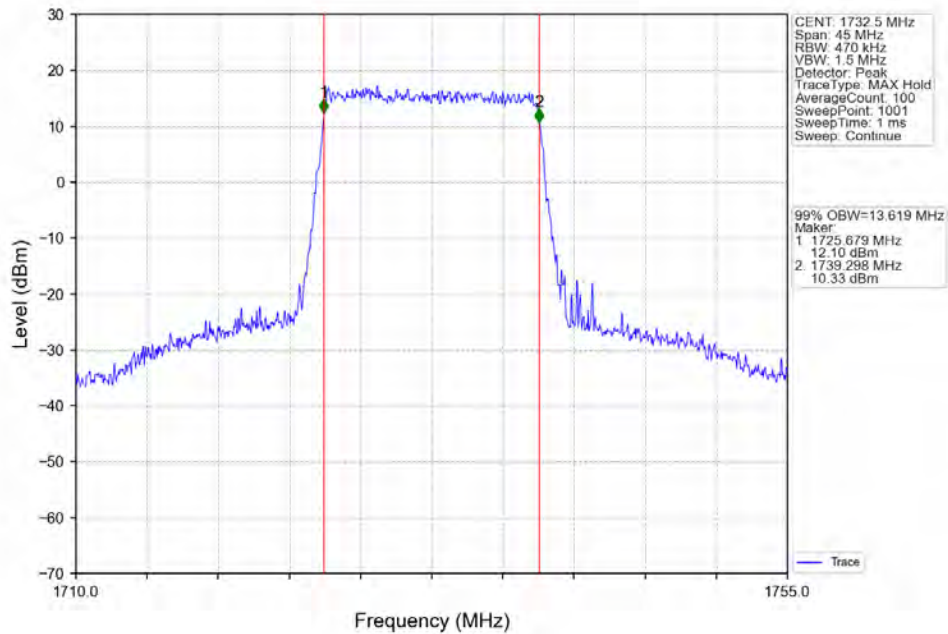
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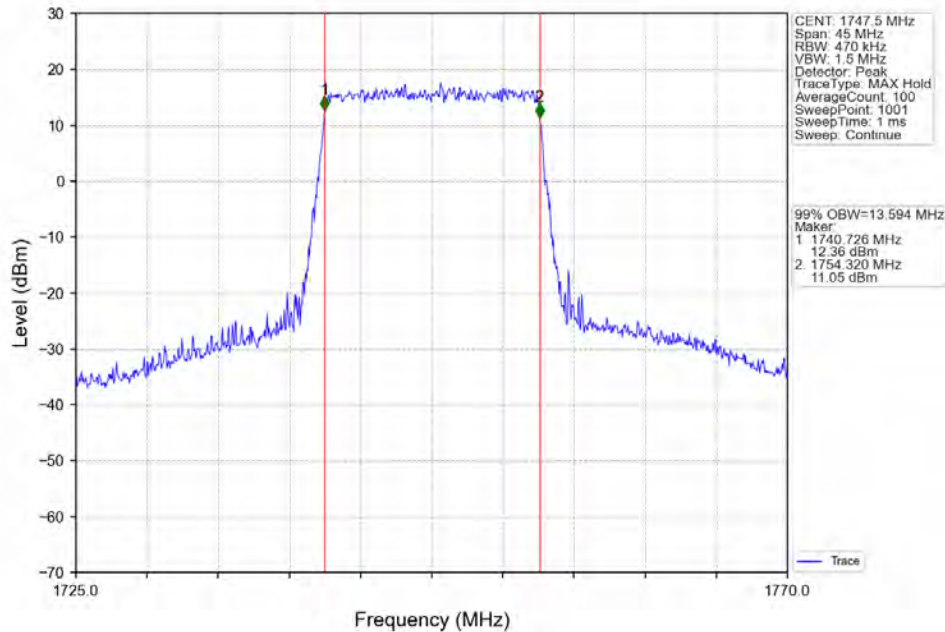
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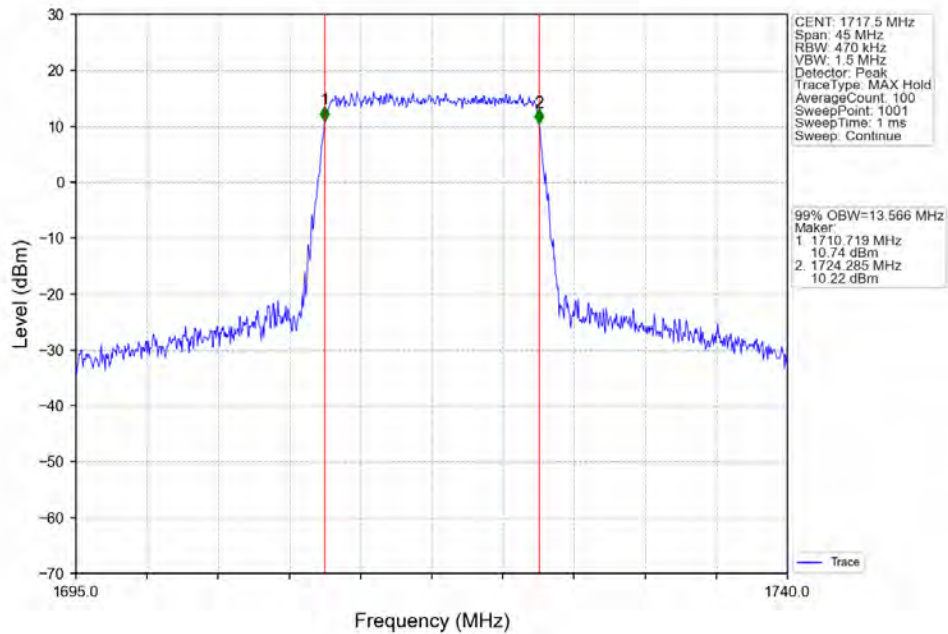
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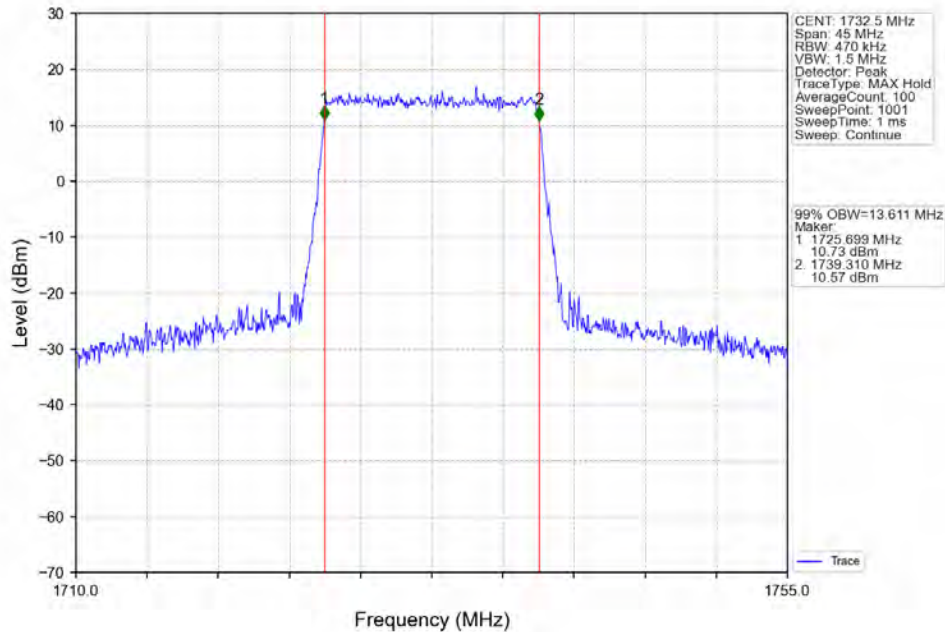
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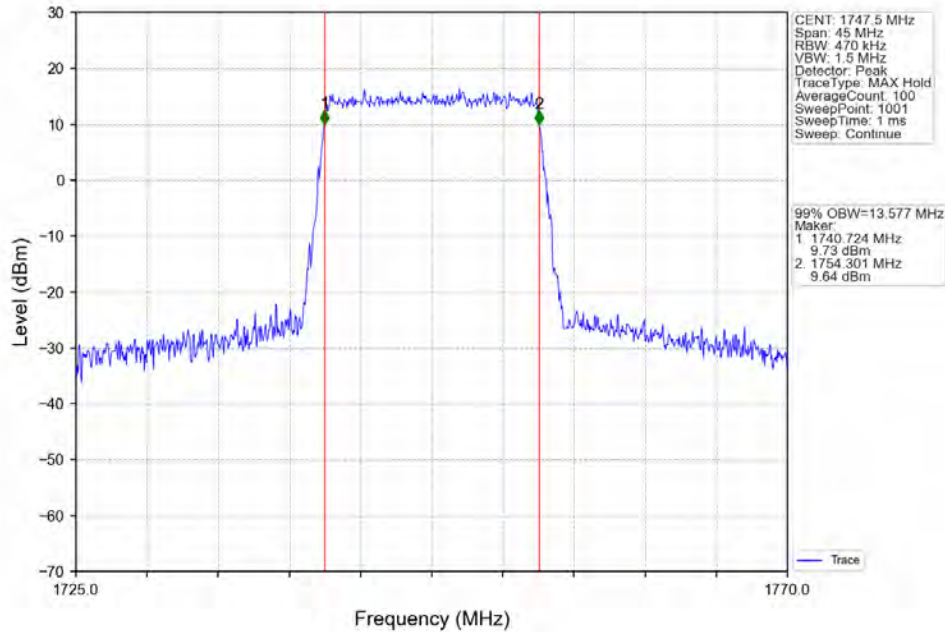
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Band4 15MHz 64QAM HCH 1747.5MHz RB 75 0 NTNV



Band4 15MHz 256QAM LCH 1717.5MHz RB 75 0 NTNV



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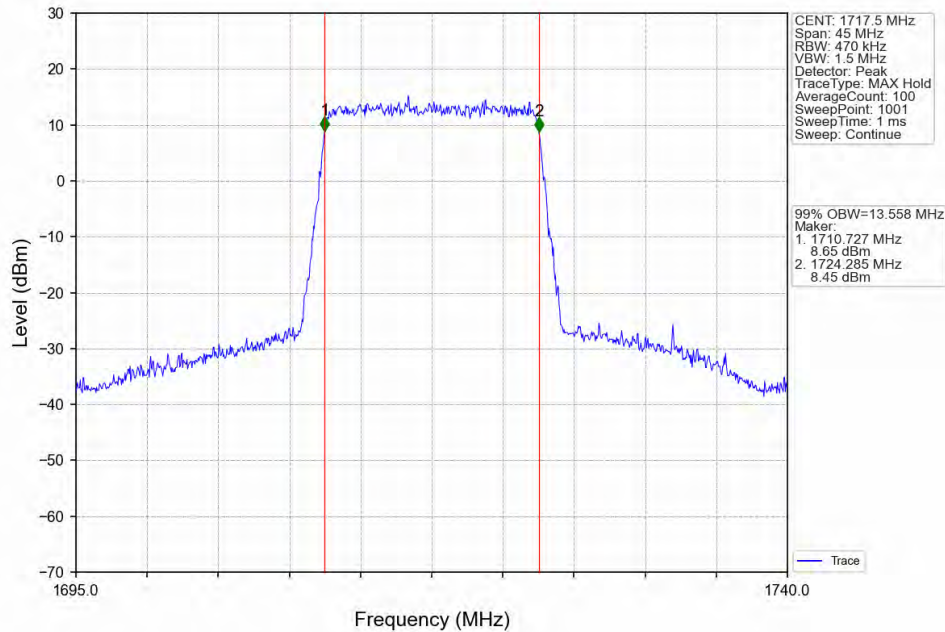
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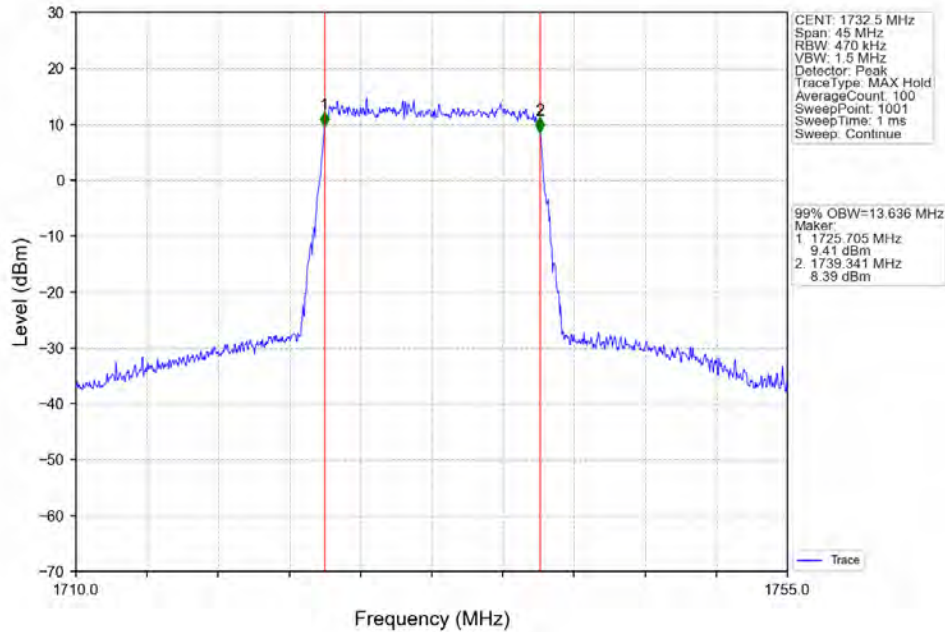
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Band4_15MHz_256QAM_MCH_1732.5MHz_RB_75_0_NTNV



Band4_15MHz_256QAM_HCH_1747.5MHz_RB_75_0_NTNV



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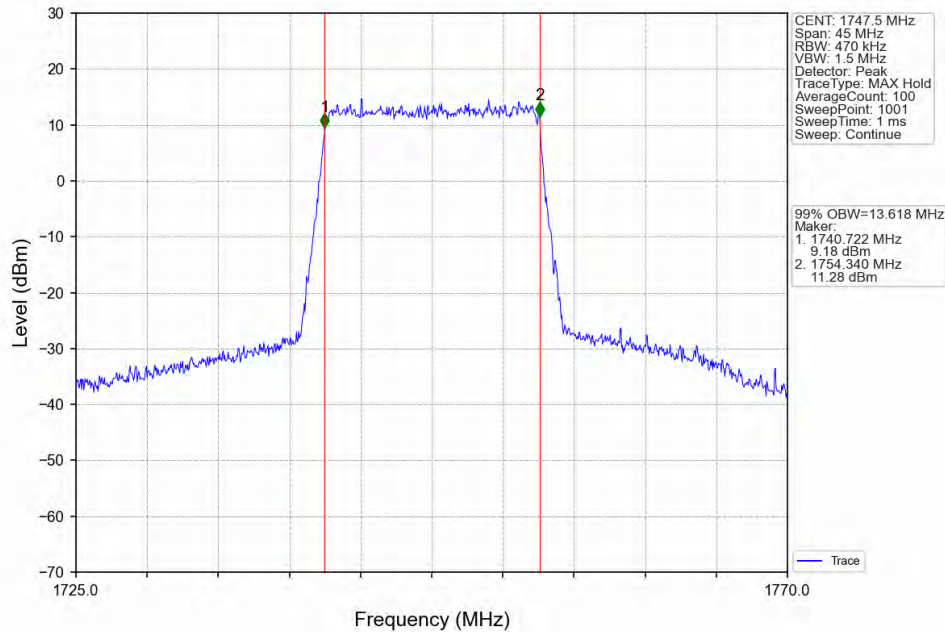
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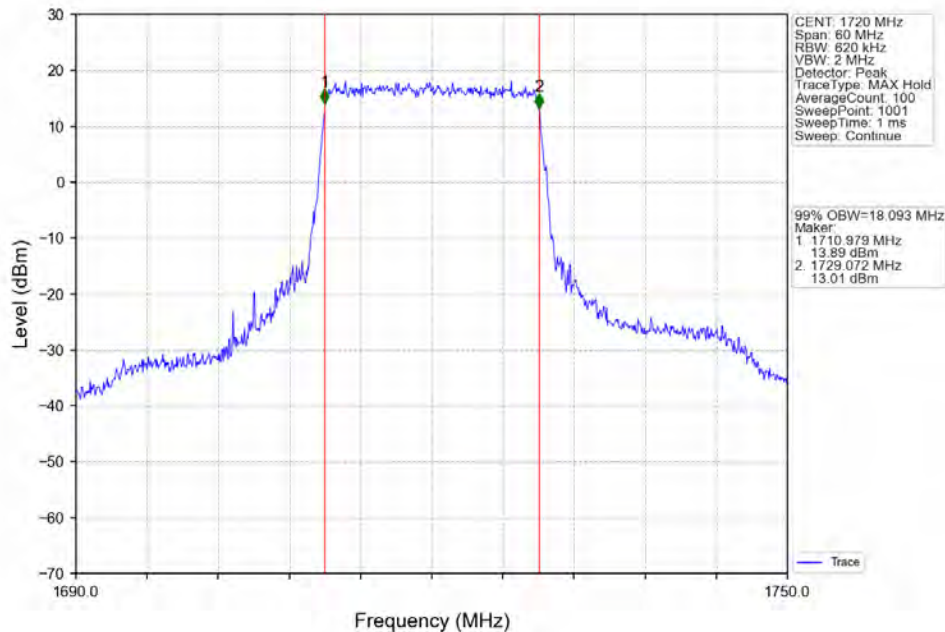
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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



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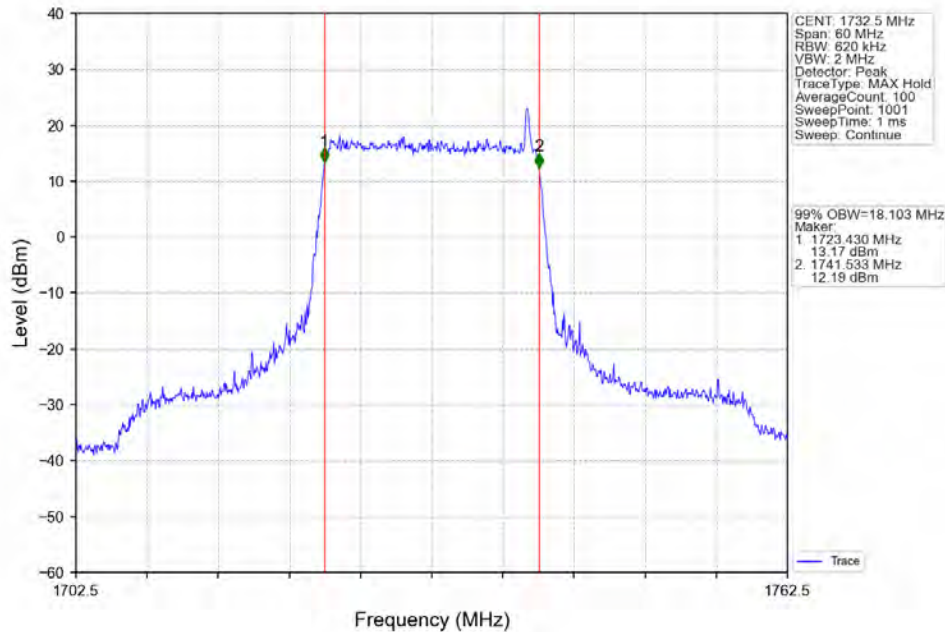
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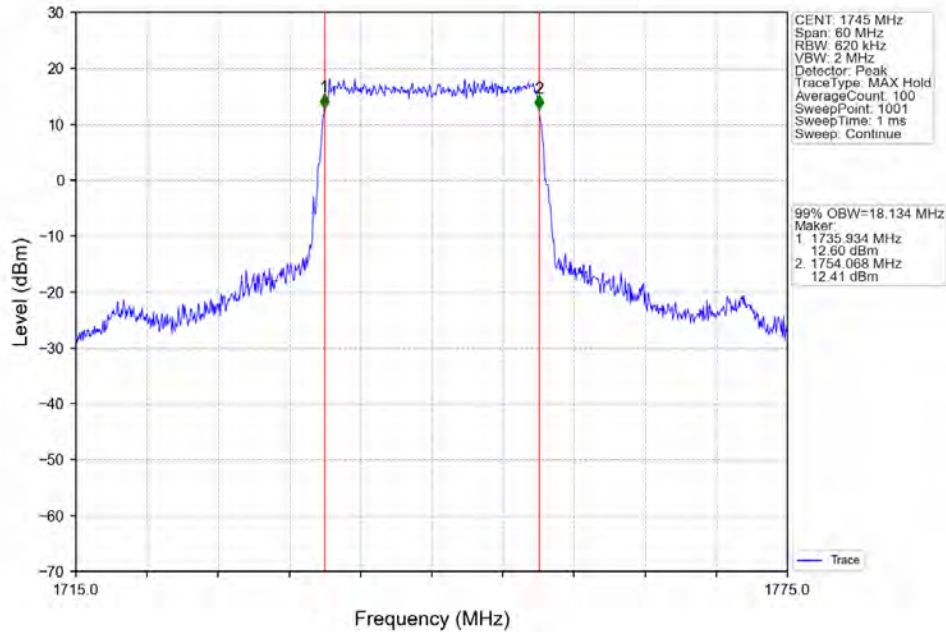
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Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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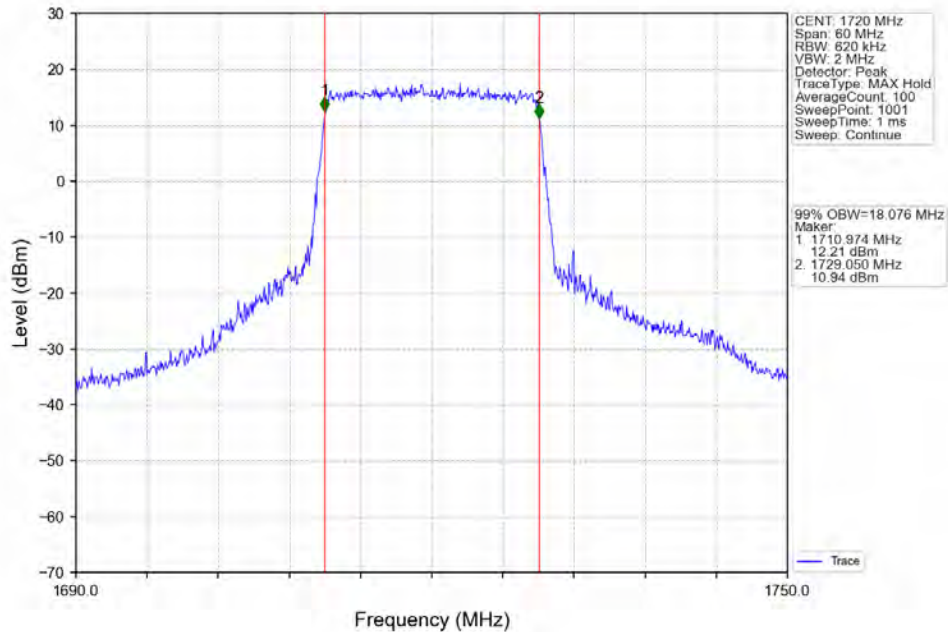
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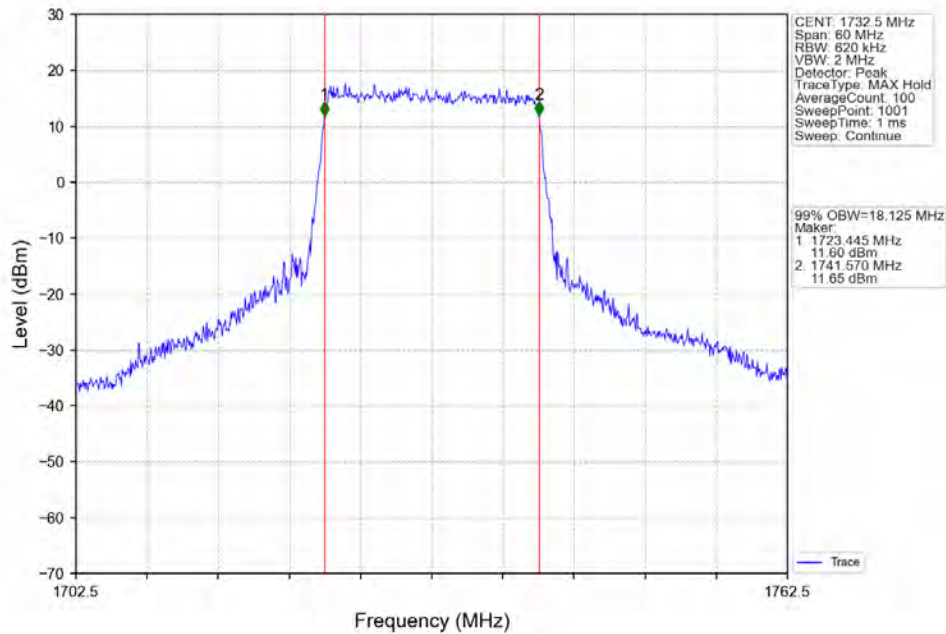
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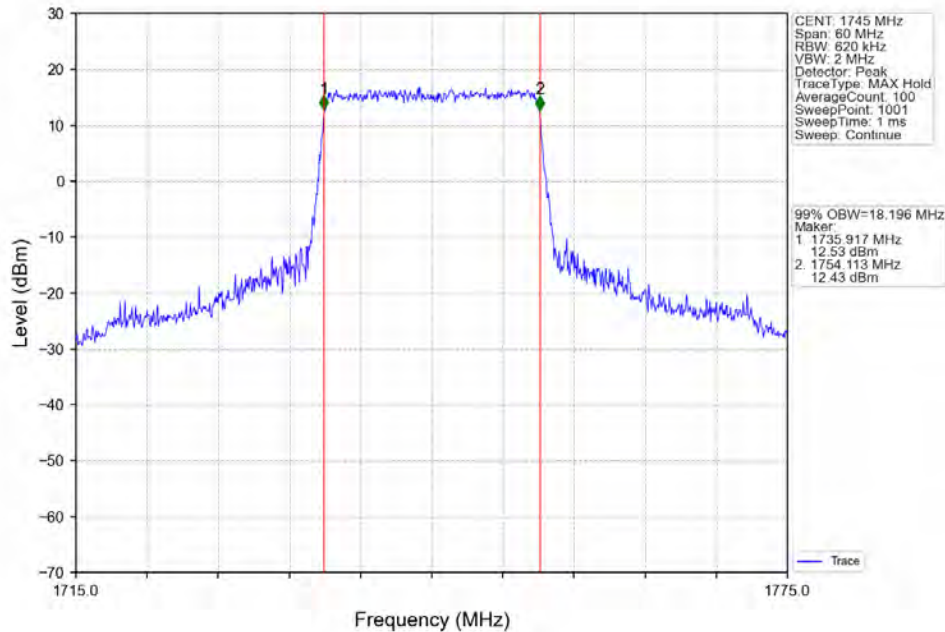
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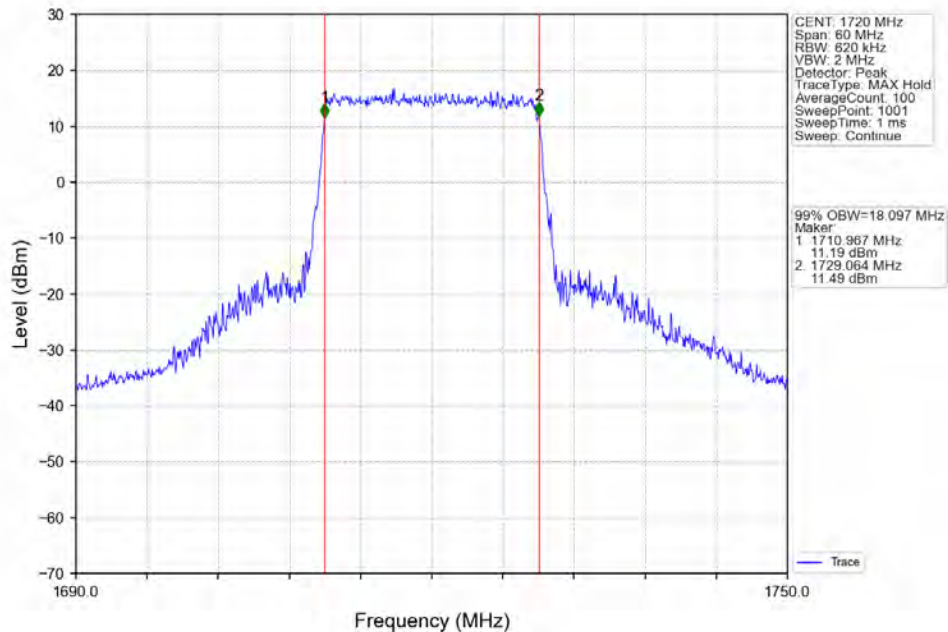
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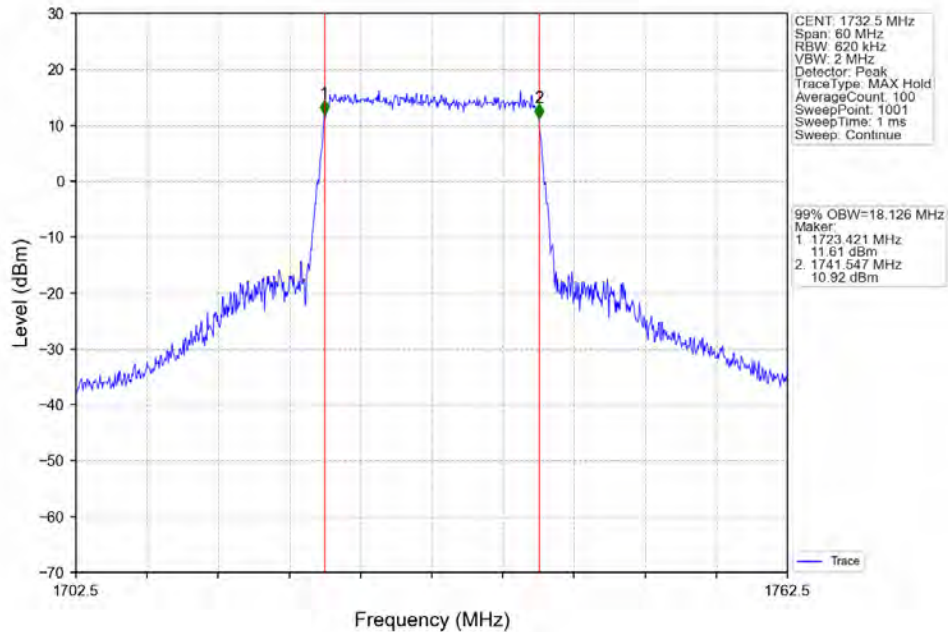
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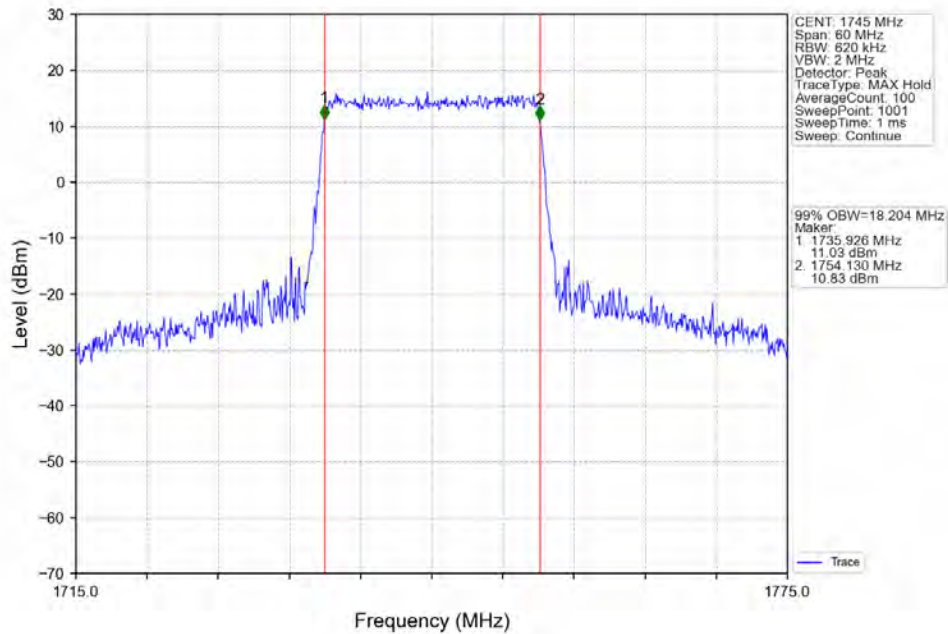
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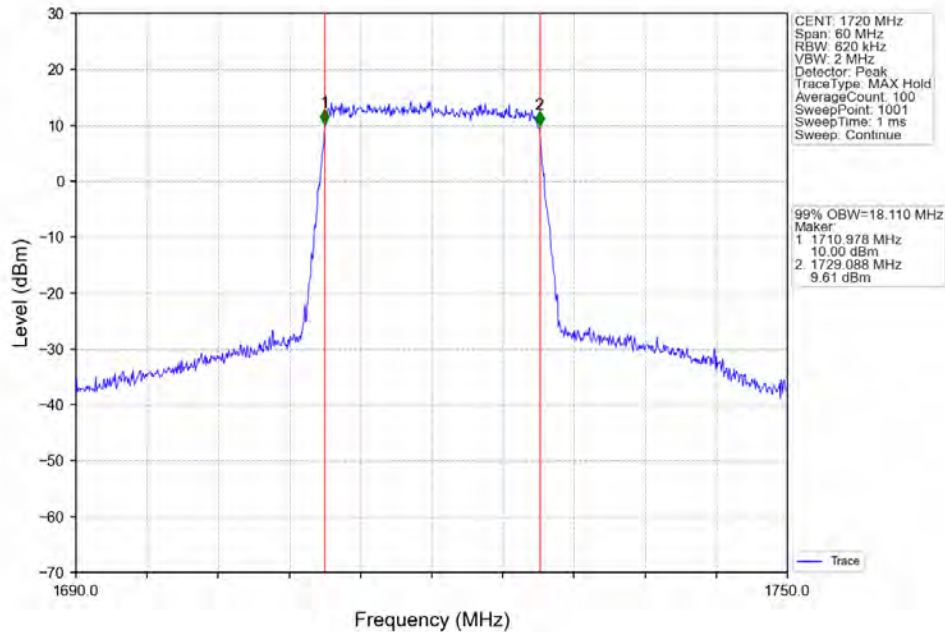
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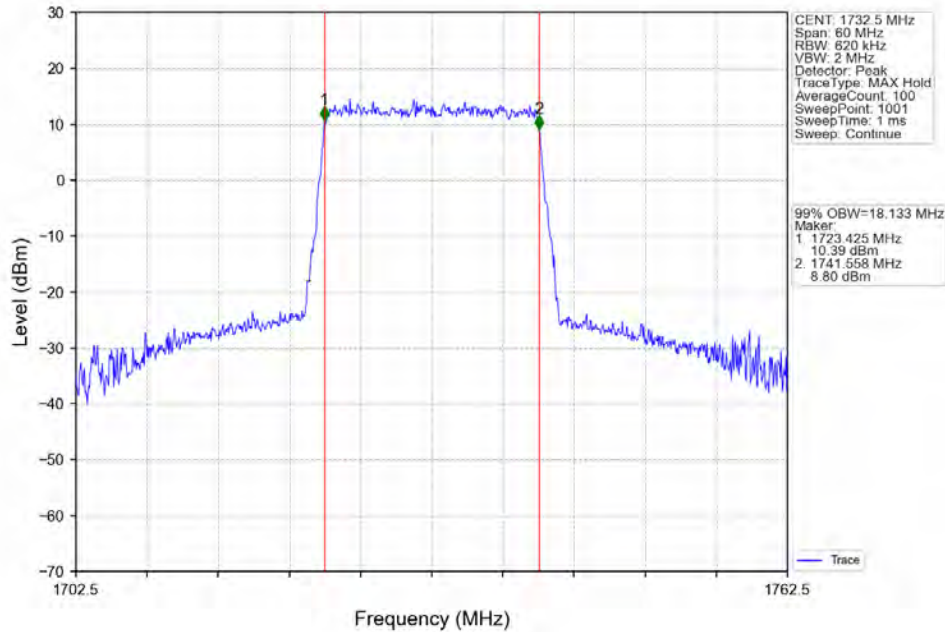
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Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTNV



Band4 20MHz 256QAM HCH 1745MHz RB 100 0 NTNV



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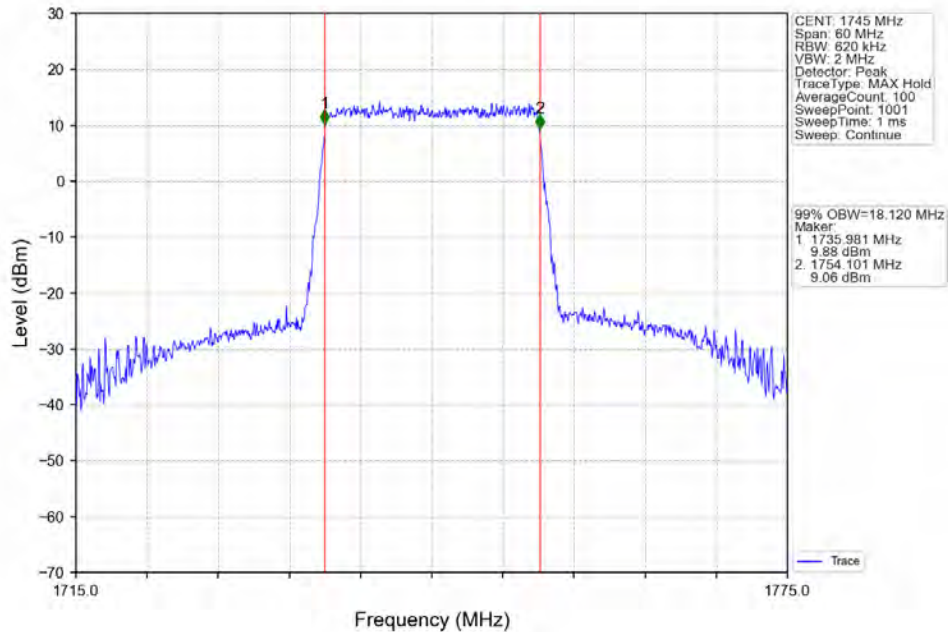
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4.2 Band4_XDB

4.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.400	/	Pass
		1732.5	6	0	1.373	/	Pass
		1754.3	6	0	1.381	/	Pass
	16QAM	1710.7	6	0	1.415	/	Pass
		1732.5	6	0	1.386	/	Pass
		1754.3	6	0	1.410	/	Pass
	64QAM	1710.7	6	0	1.398	/	Pass
		1732.5	6	0	1.424	/	Pass
		1754.3	6	0	1.388	/	Pass
	256QAM	1710.7	6	0	1.392	/	Pass
		1732.5	6	0	1.370	/	Pass
		1754.3	6	0	1.391	/	Pass
3	QPSK	1711.5	15	0	3.118	/	Pass
		1732.5	15	0	3.118	/	Pass
		1753.5	15	0	3.129	/	Pass
	16QAM	1711.5	15	0	3.125	/	Pass
		1732.5	15	0	3.121	/	Pass
		1753.5	15	0	3.136	/	Pass
	64QAM	1711.5	15	0	3.139	/	Pass
		1732.5	15	0	3.100	/	Pass
		1753.5	15	0	3.100	/	Pass
	256QAM	1711.5	15	0	3.123	/	Pass
		1732.5	15	0	3.121	/	Pass
		1753.5	15	0	3.158	/	Pass
5	QPSK	1712.5	25	0	5.264	/	Pass
		1732.5	25	0	5.243	/	Pass
		1752.5	25	0	5.262	/	Pass
	16QAM	1712.5	25	0	5.189	/	Pass
		1732.5	25	0	5.245	/	Pass
		1752.5	25	0	5.203	/	Pass
	64QAM	1712.5	25	0	5.286	/	Pass
		1732.5	25	0	5.242	/	Pass
		1752.5	25	0	5.214	/	Pass
	256QAM	1712.5	25	0	5.255	/	Pass
		1732.5	25	0	5.266	/	Pass
		1752.5	25	0	5.157	/	Pass
10	QPSK	1715	50	0	10.229	/	Pass
		1732.5	50	0	10.224	/	Pass
		1750	50	0	10.338	/	Pass



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	16QAM	1715	50	0	10.237	/	Pass
		1732.5	50	0	10.204	/	Pass
		1750	50	0	10.294	/	Pass
	64QAM	1715	50	0	10.307	/	Pass
		1732.5	50	0	10.210	/	Pass
		1750	50	0	10.119	/	Pass
	256QAM	1715	50	0	10.188	/	Pass
		1732.5	50	0	10.279	/	Pass
		1750	50	0	10.223	/	Pass
15	QPSK	1717.5	75	0	15.207	/	Pass
		1732.5	75	0	15.235	/	Pass
		1747.5	75	0	15.412	/	Pass
	16QAM	1717.5	75	0	15.132	/	Pass
		1732.5	75	0	15.229	/	Pass
		1747.5	75	0	15.138	/	Pass
	64QAM	1717.5	75	0	15.154	/	Pass
		1732.5	75	0	15.073	/	Pass
		1747.5	75	0	15.125	/	Pass
	256QAM	1717.5	75	0	15.154	/	Pass
		1732.5	75	0	15.054	/	Pass
		1747.5	75	0	15.161	/	Pass
20	QPSK	1720	100	0	20.004	/	Pass
		1732.5	100	0	19.508	/	Pass
		1745	100	0	20.163	/	Pass
	16QAM	1720	100	0	20.134	/	Pass
		1732.5	100	0	20.298	/	Pass
		1745	100	0	20.298	/	Pass
	64QAM	1720	100	0	20.171	/	Pass
		1732.5	100	0	20.049	/	Pass
		1745	100	0	20.034	/	Pass
	256QAM	1720	100	0	20.007	/	Pass
		1732.5	100	0	20.131	/	Pass
		1745	100	0	20.101	/	Pass



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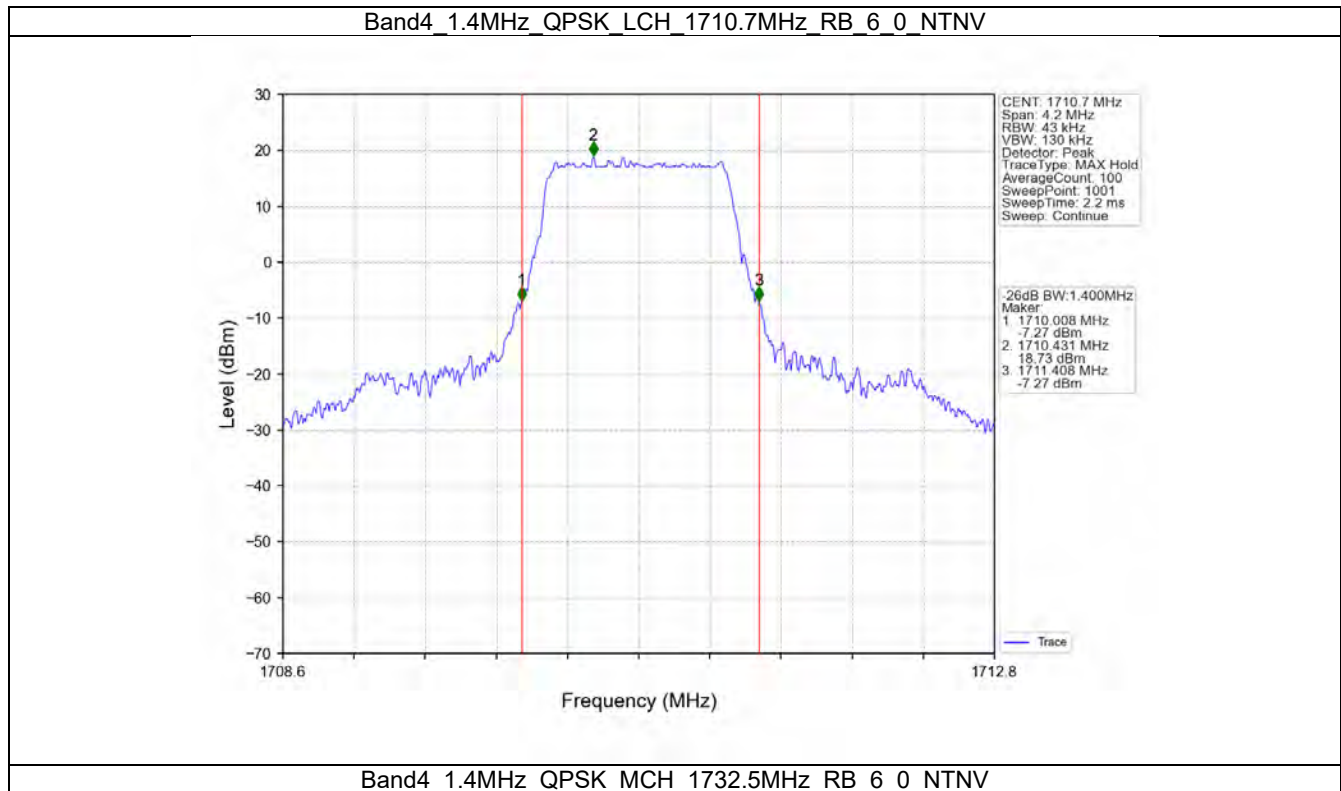
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4.2.2 Test Graph



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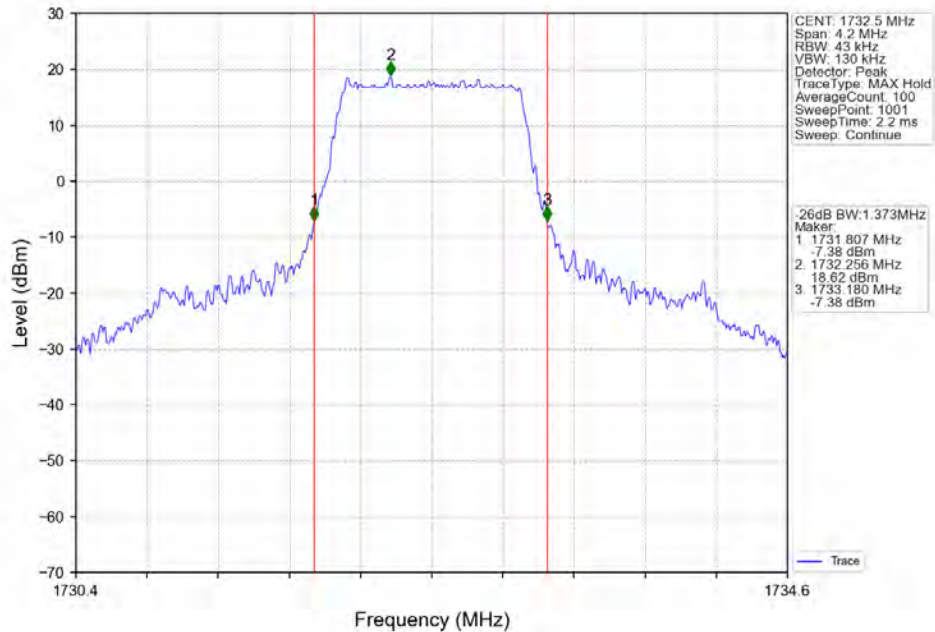
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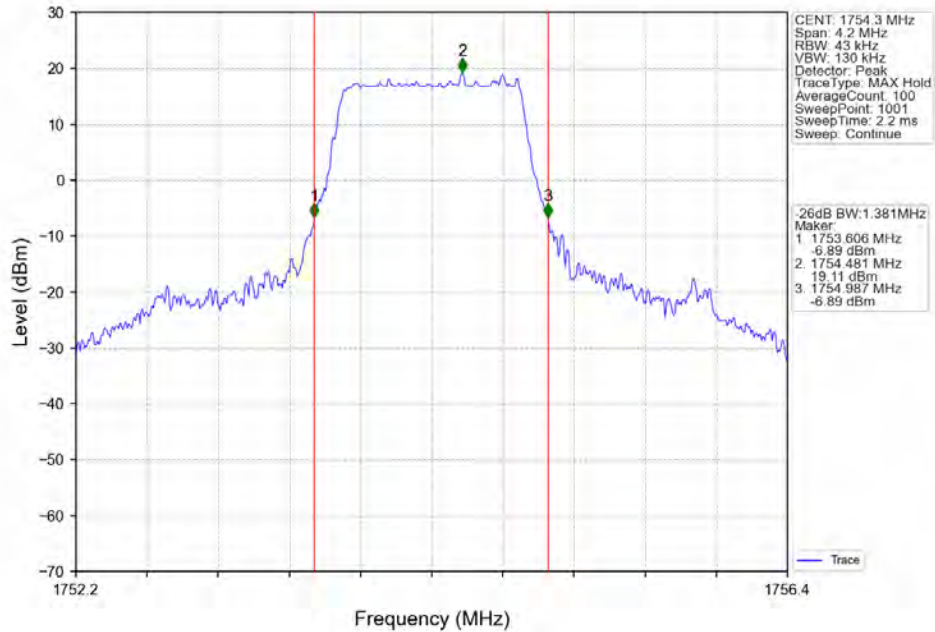
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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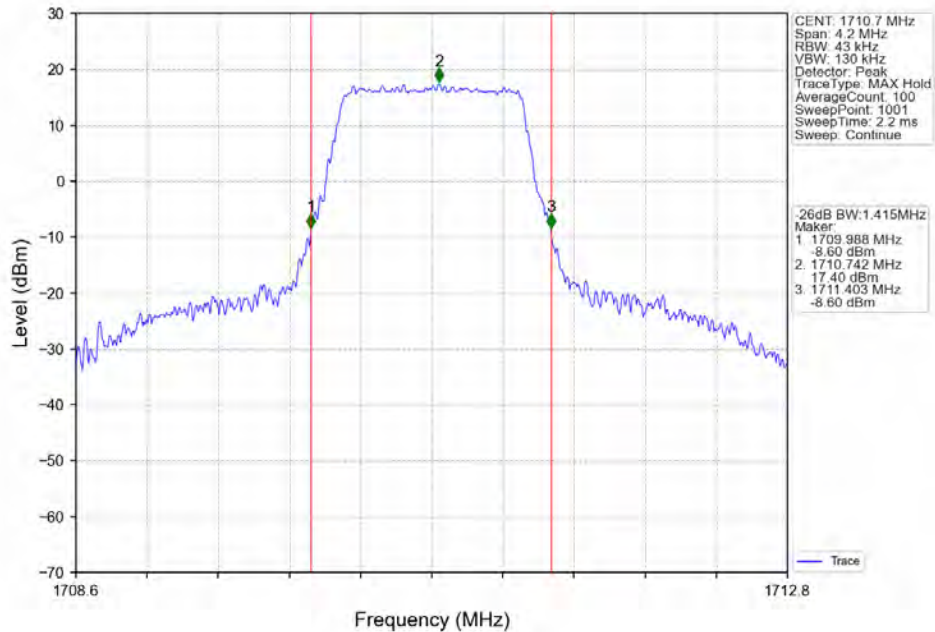
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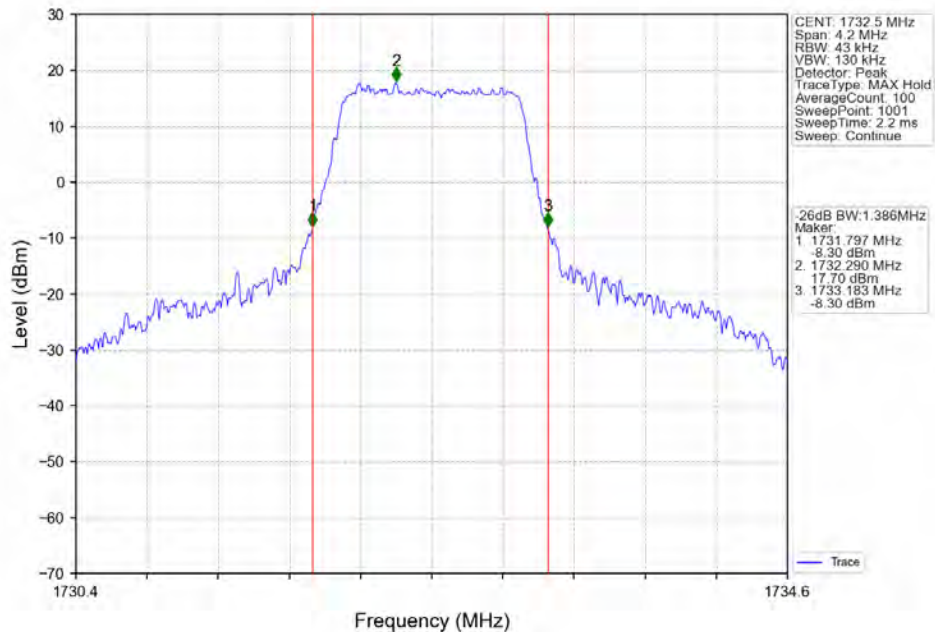
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



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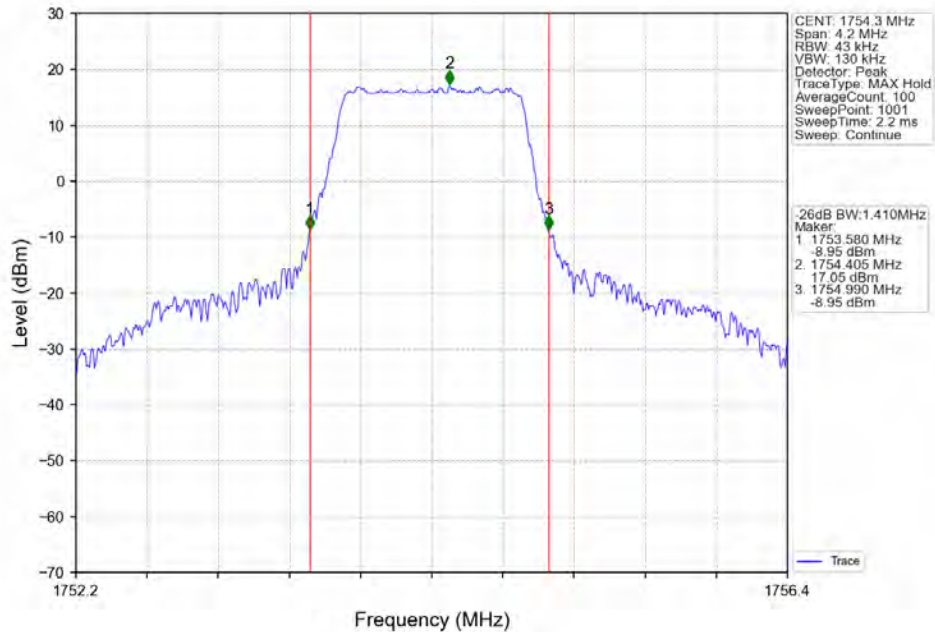
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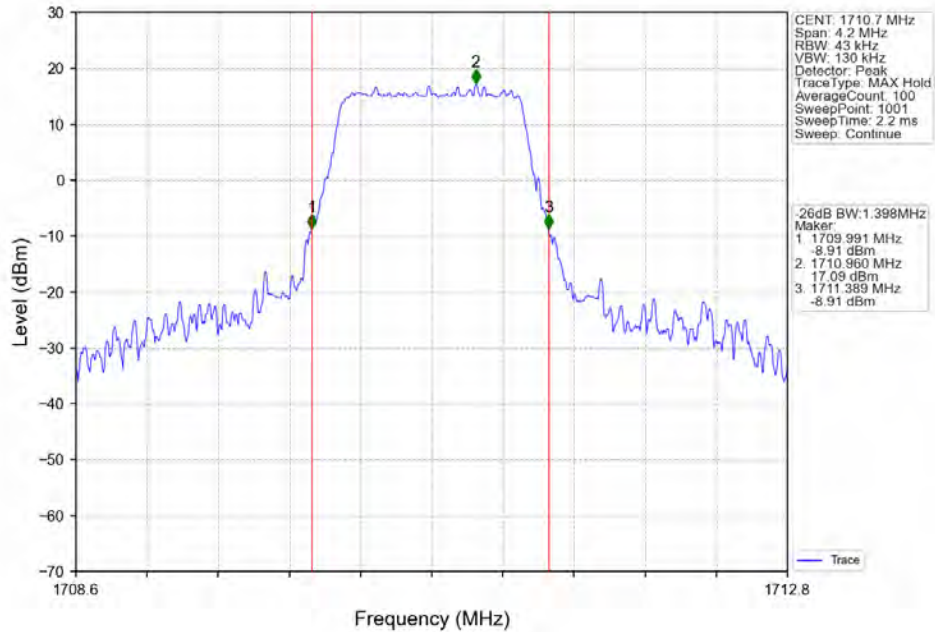
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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV



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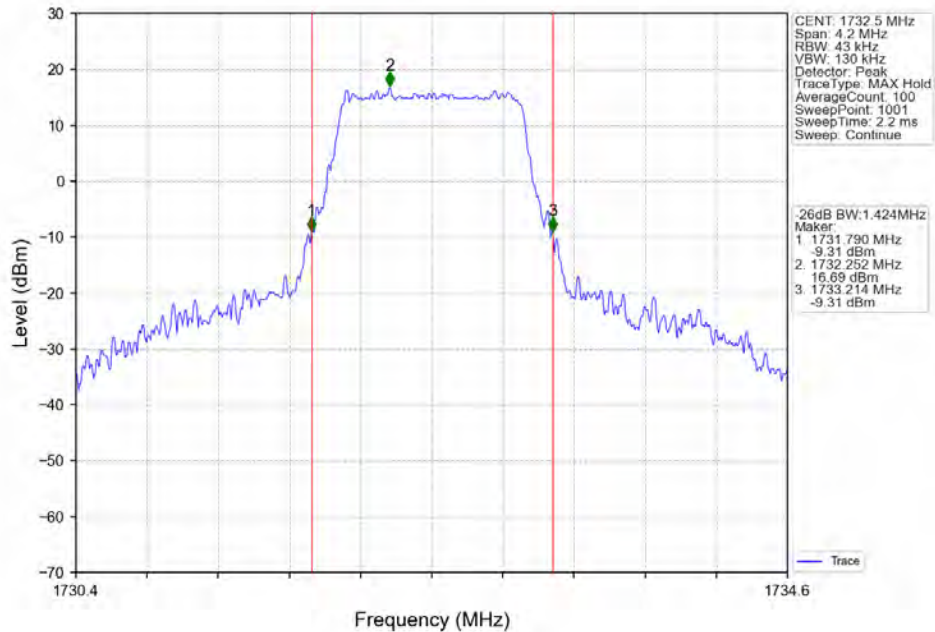
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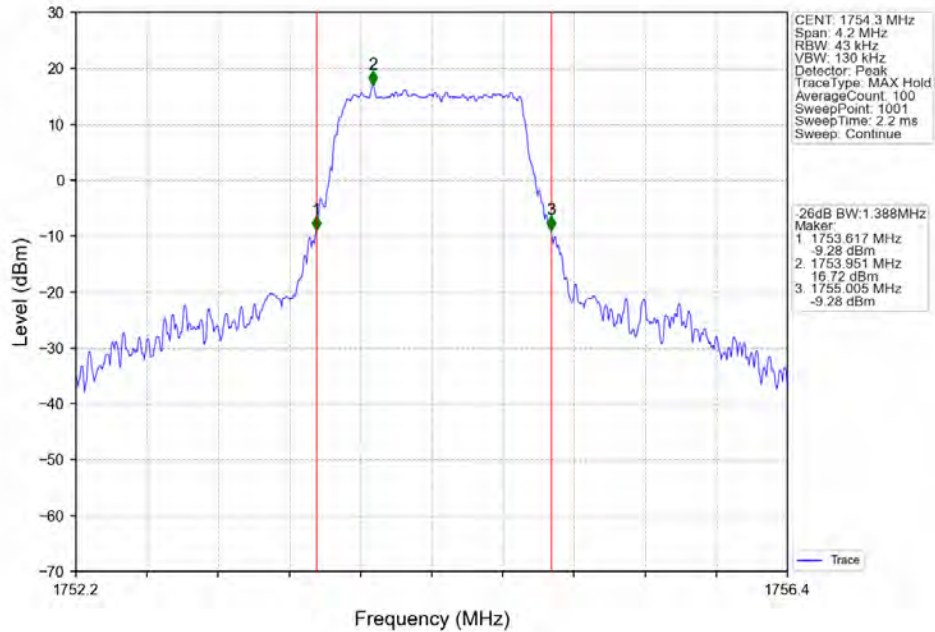
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Band4 1.4MHz 64QAM HCH 1754.3MHz RB 6 0 NTN



Band4 1.4MHz 256QAM LCH 1710.7MHz RB 6 0 NTN



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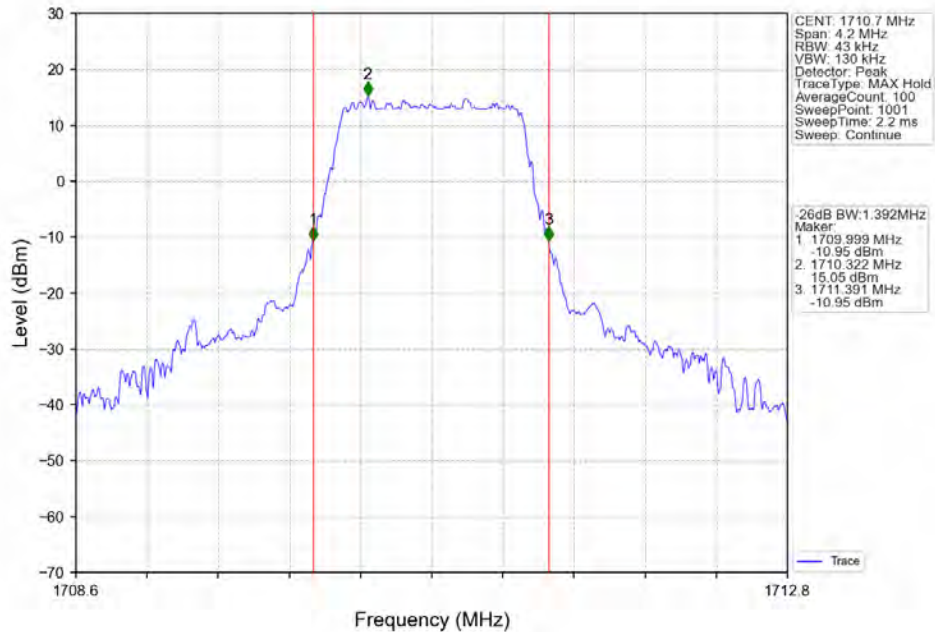
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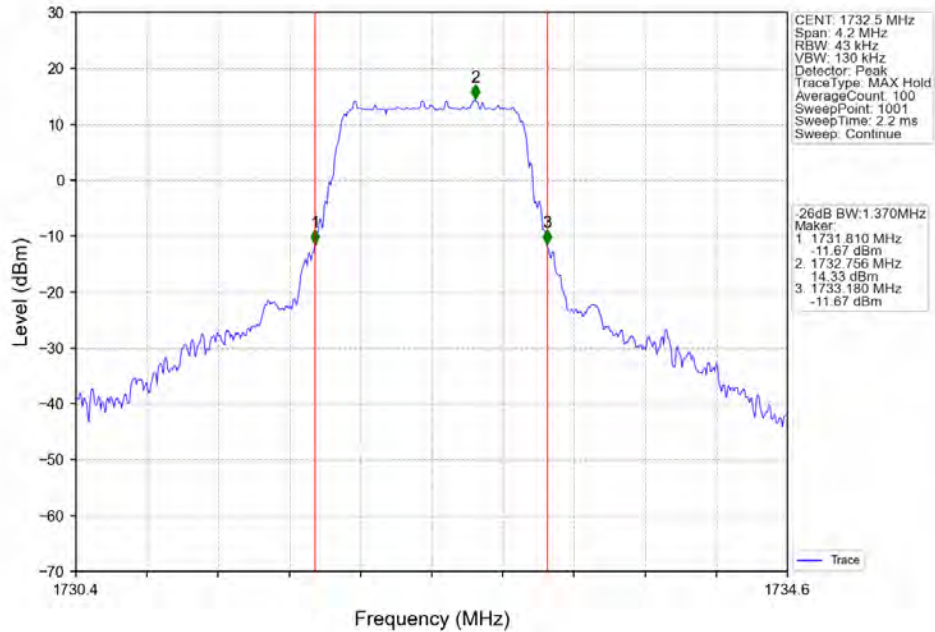
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Band4 1.4MHz 256QAM MCH 1732.5MHz RB 6 0 NTN



Band4 1.4MHz 256QAM HCH 1754.3MHz RB 6 0 NTN



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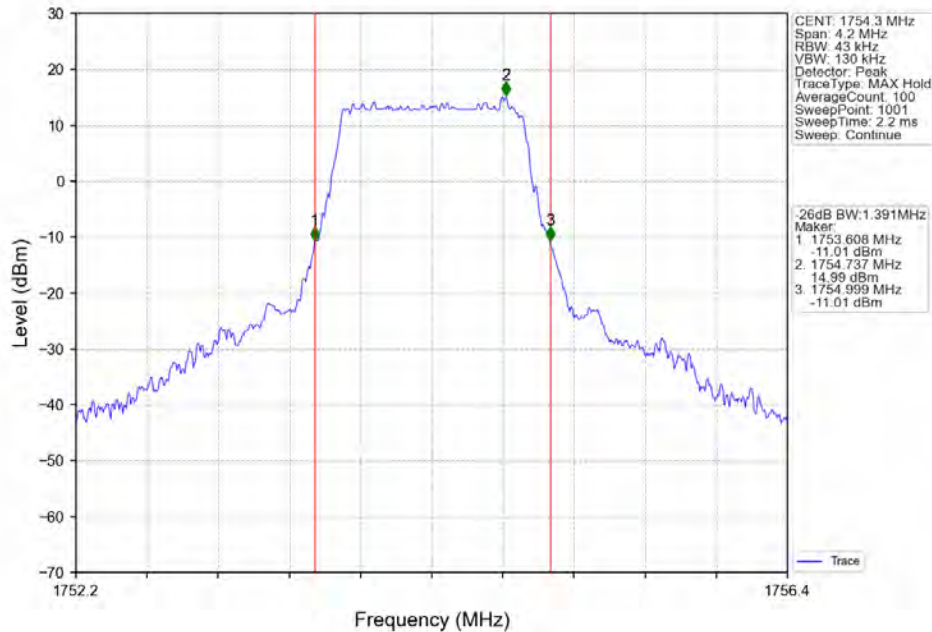
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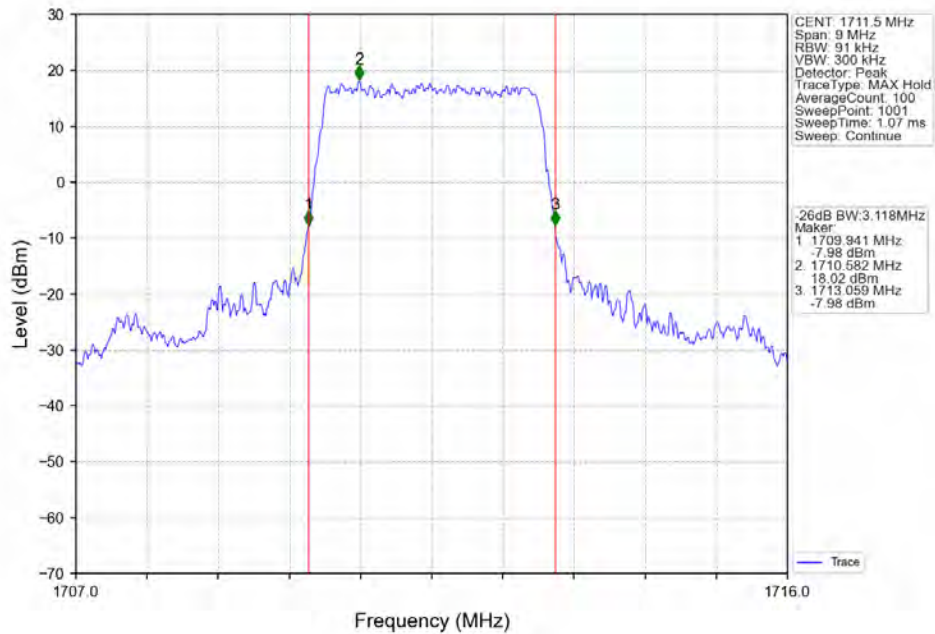
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Band4_3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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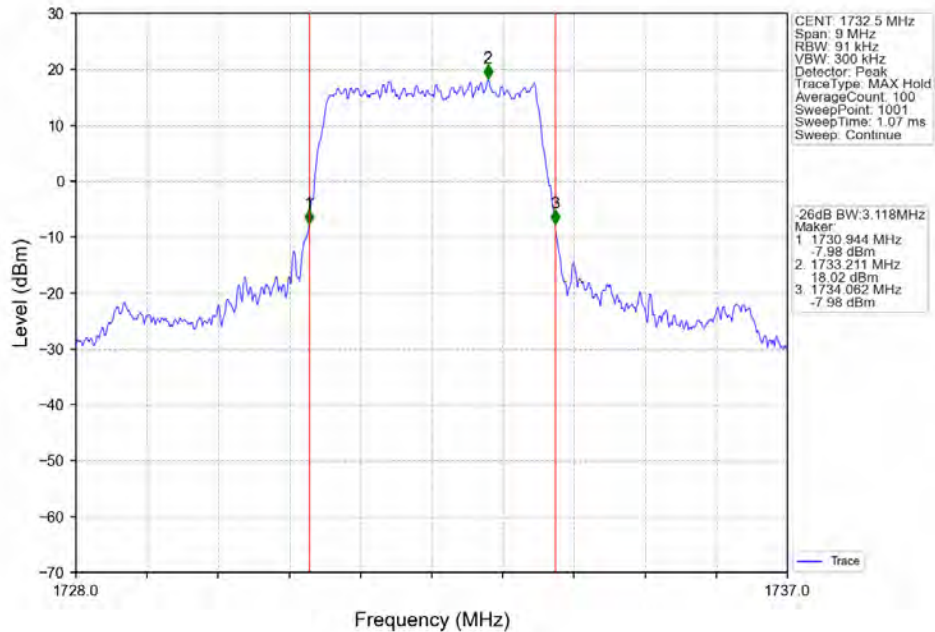
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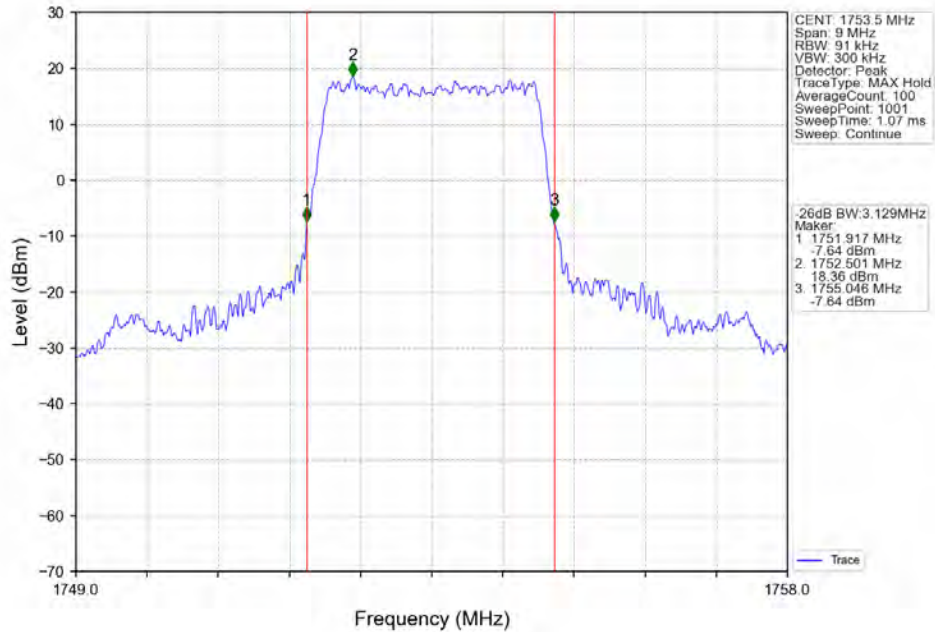
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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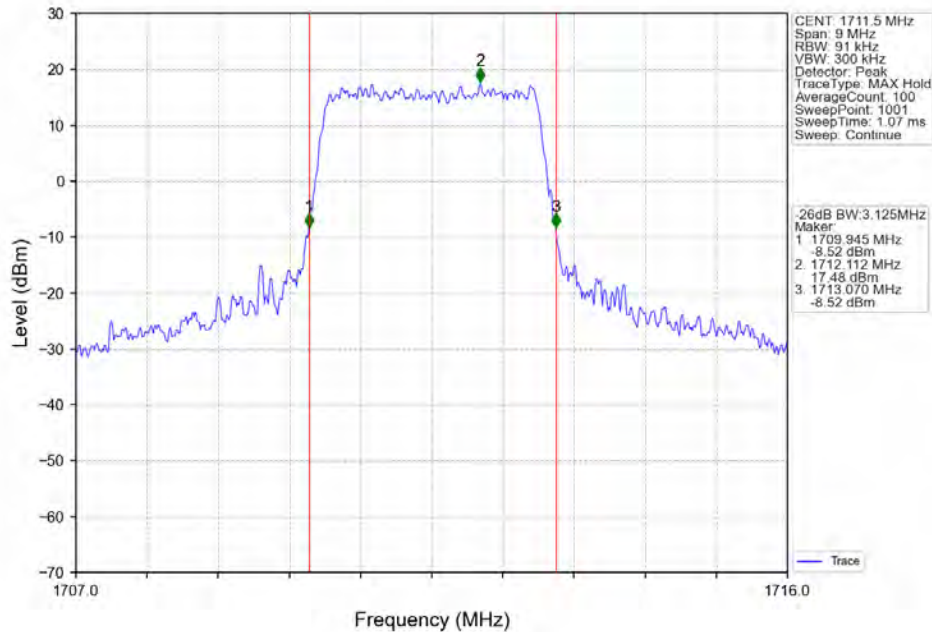
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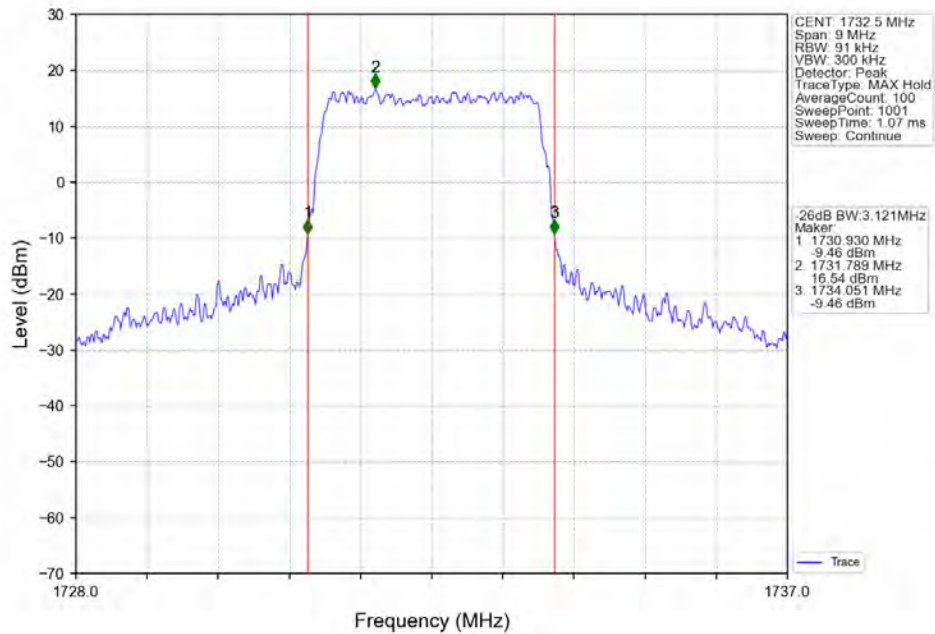
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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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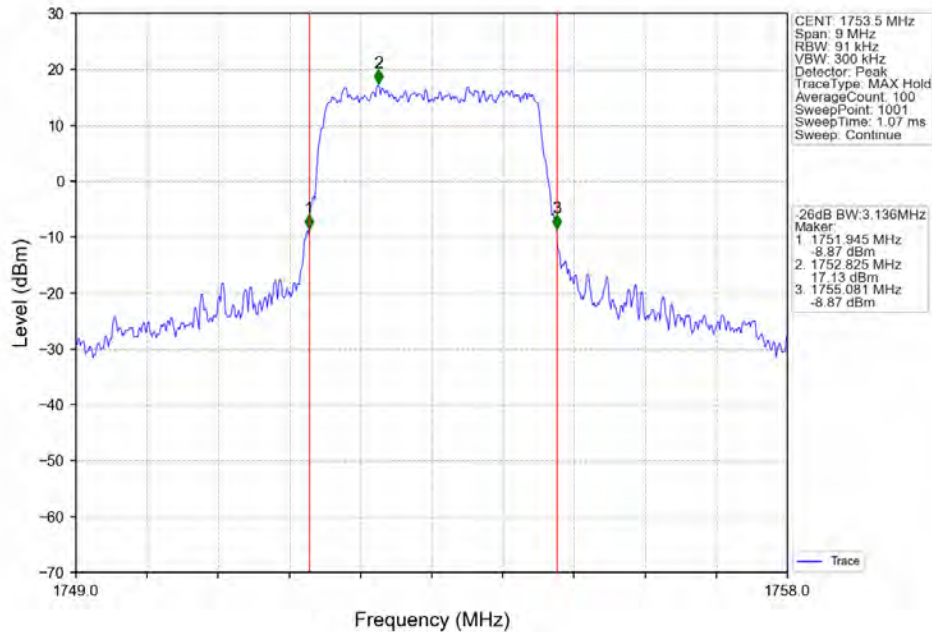
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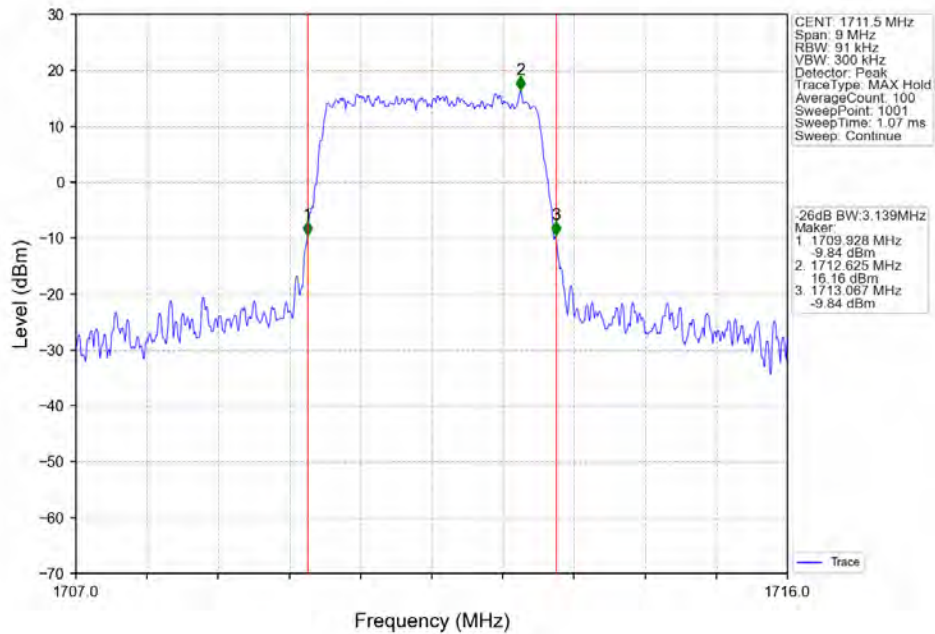
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Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



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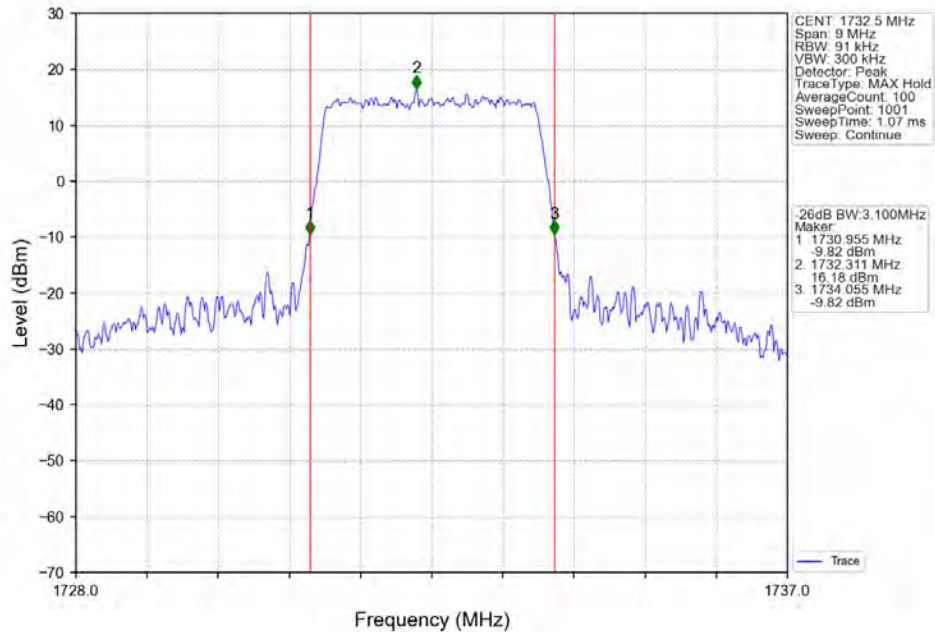
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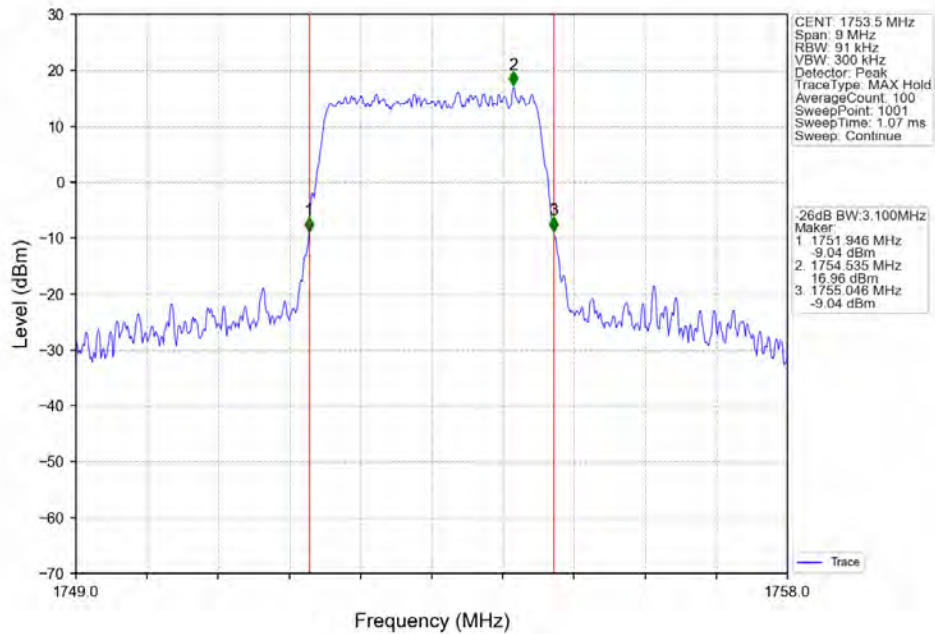
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Band4_3MHz_256QAM_LCH_1711.5MHz_RB_15_0_NTNV



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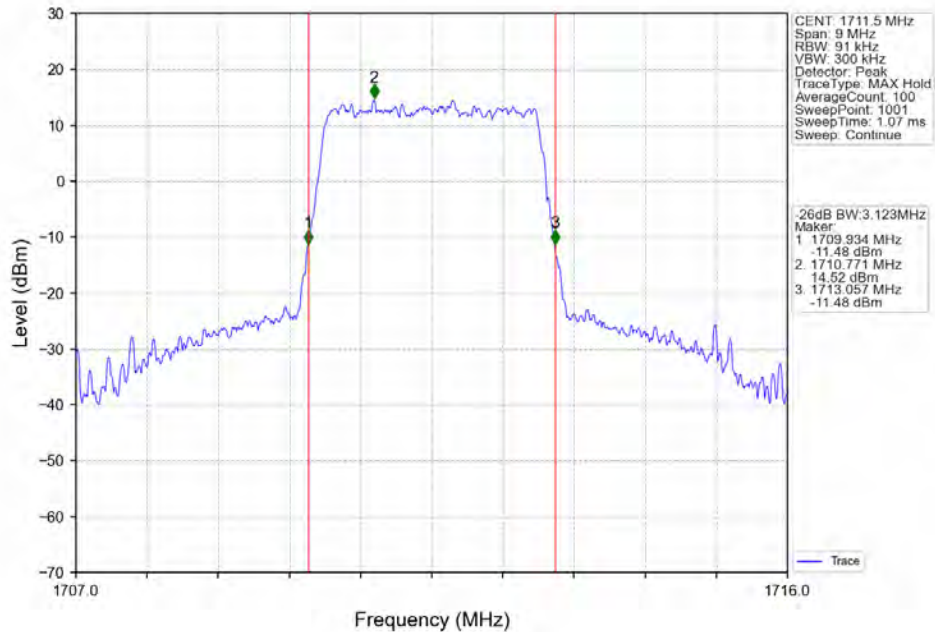
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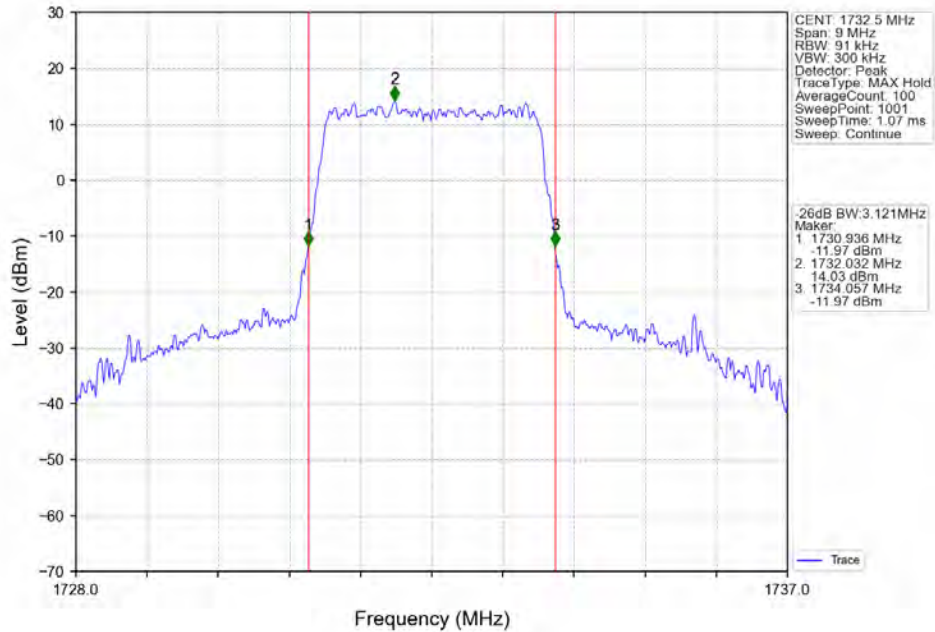
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Band4_3MHz_256QAM_HCH_1753.5MHz_RB_15_0_NTNV



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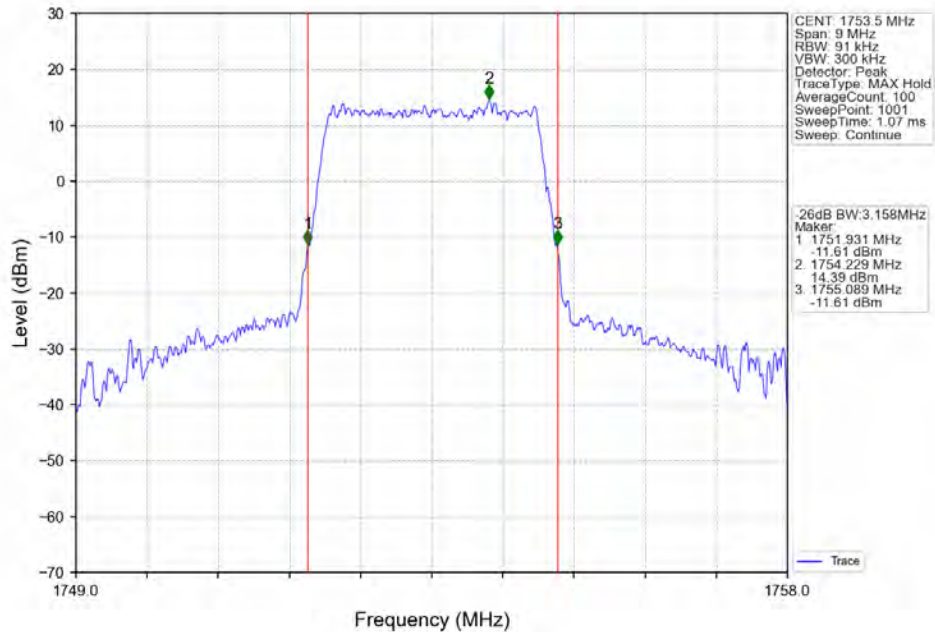
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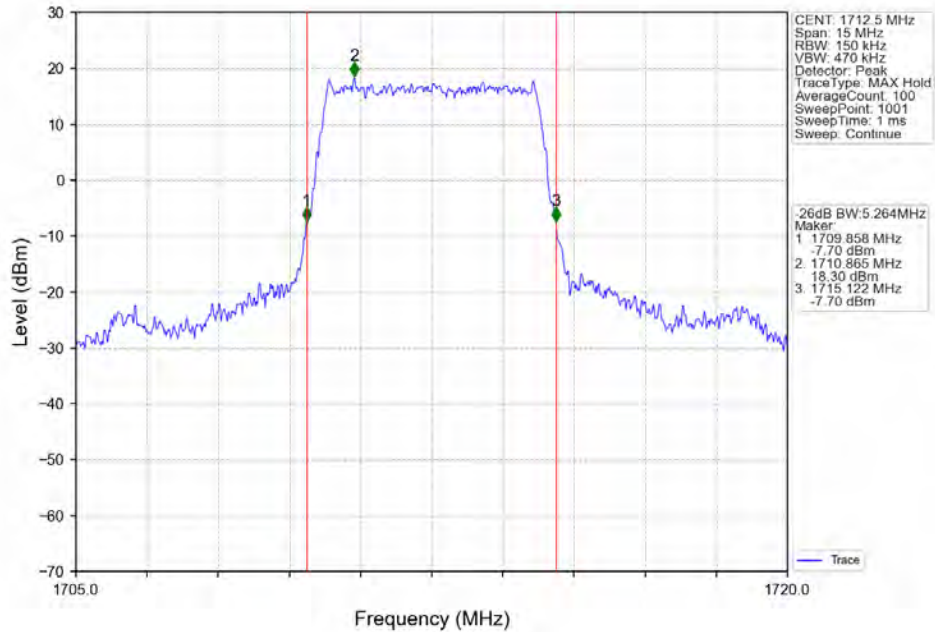
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



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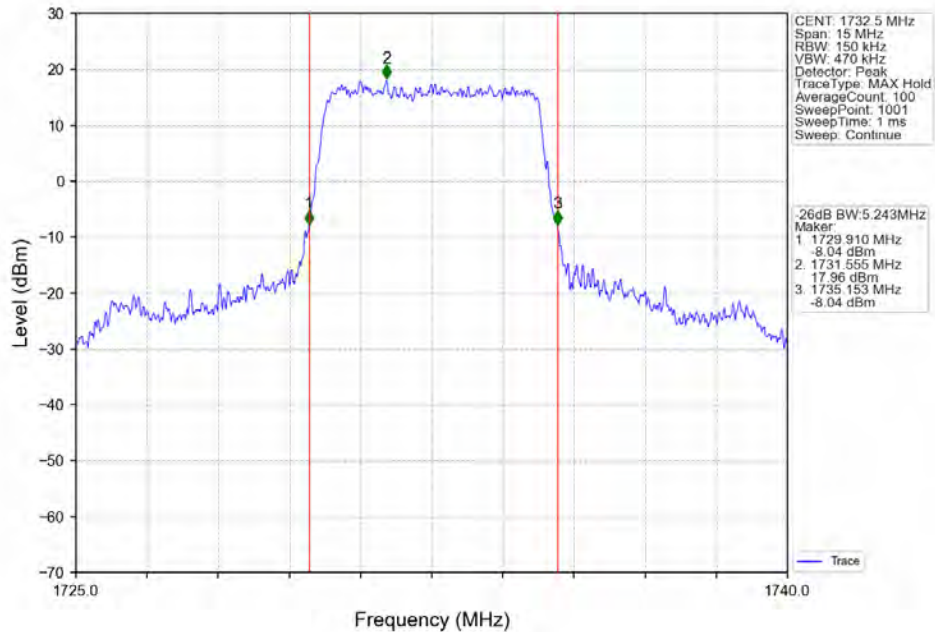
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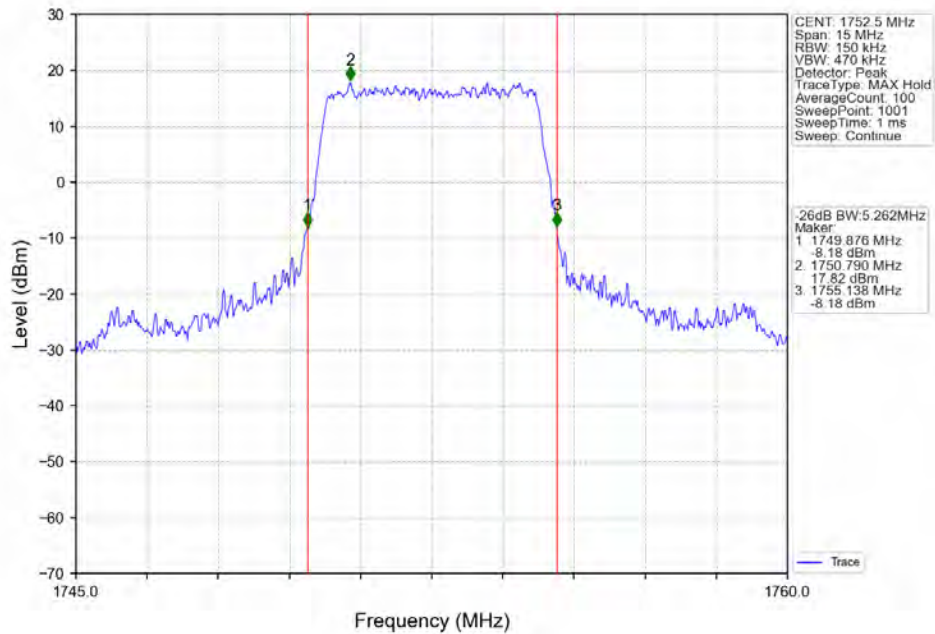
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Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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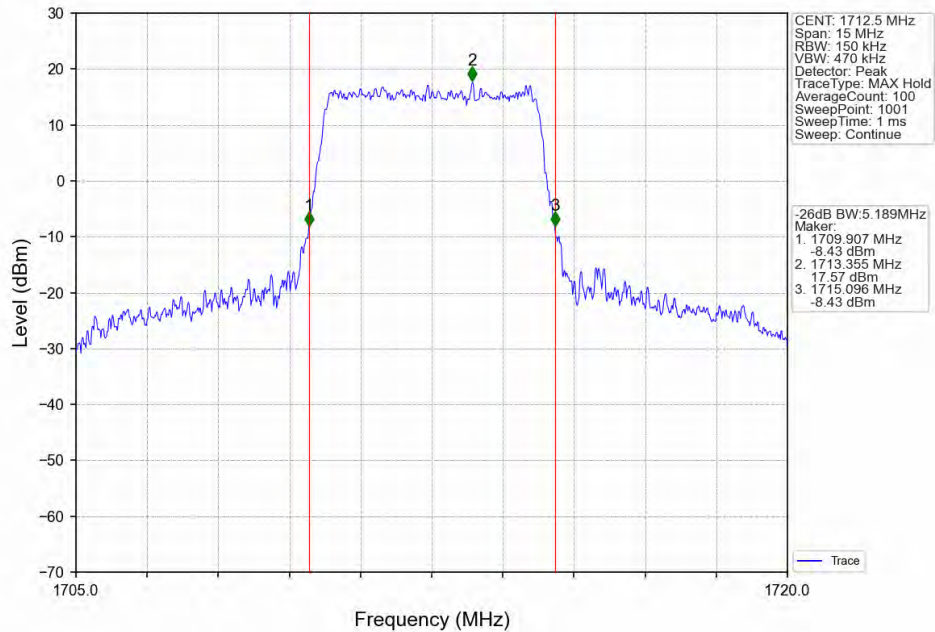
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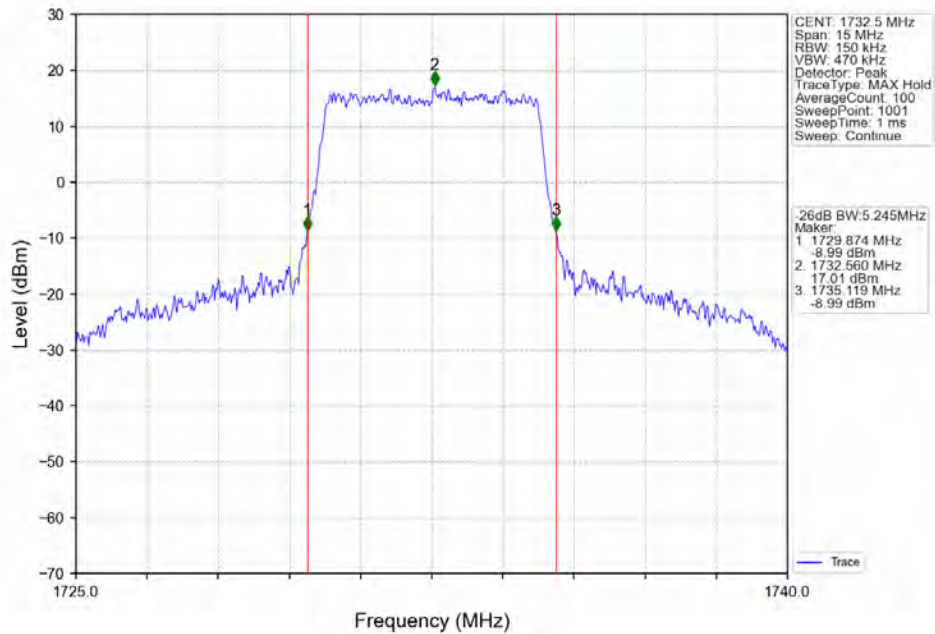
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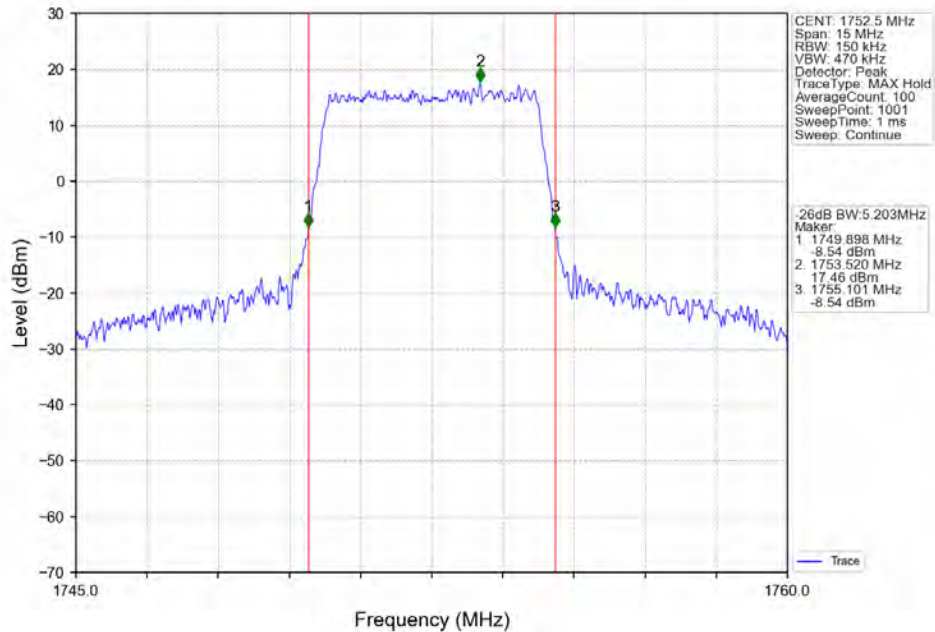
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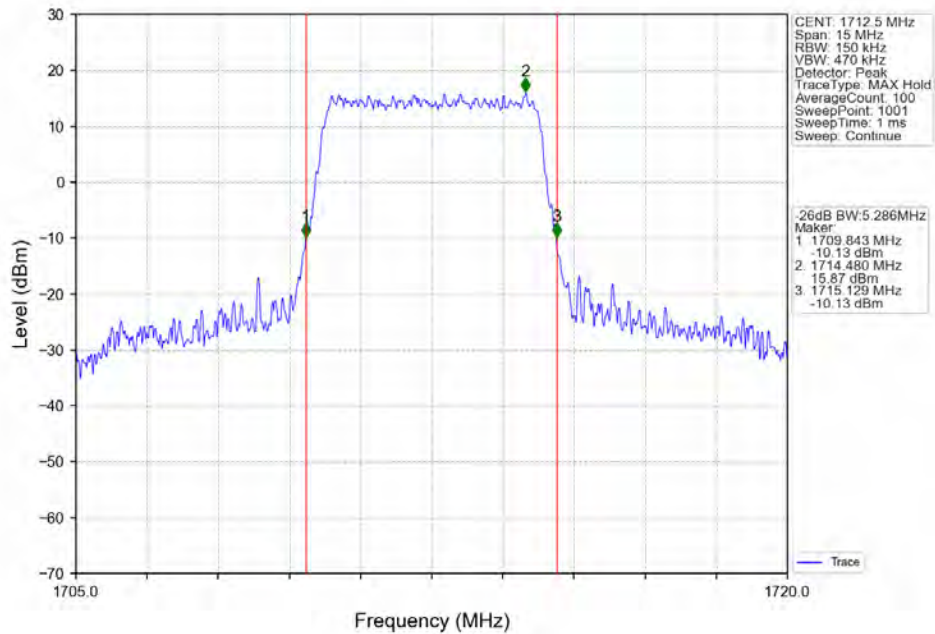
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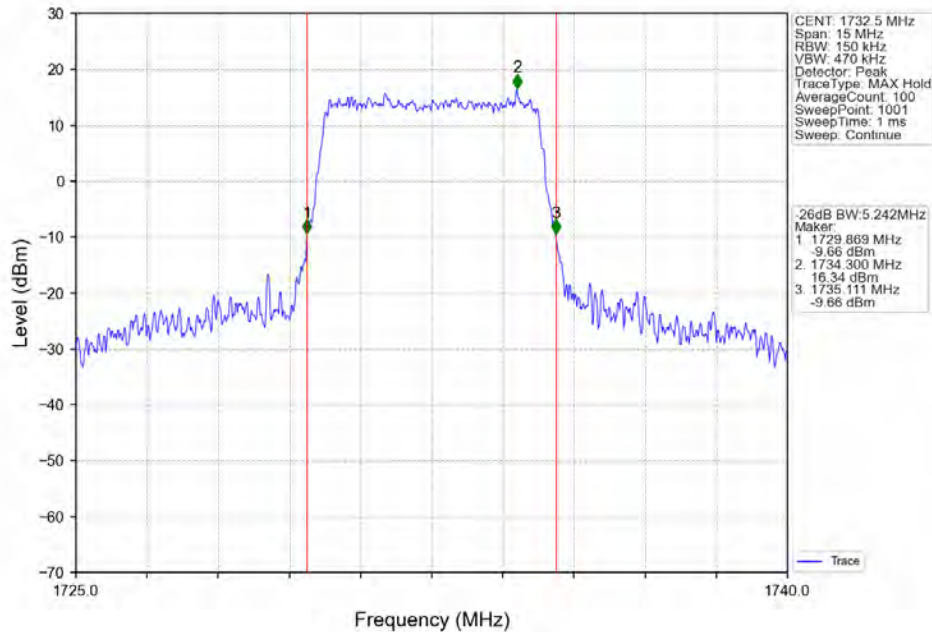
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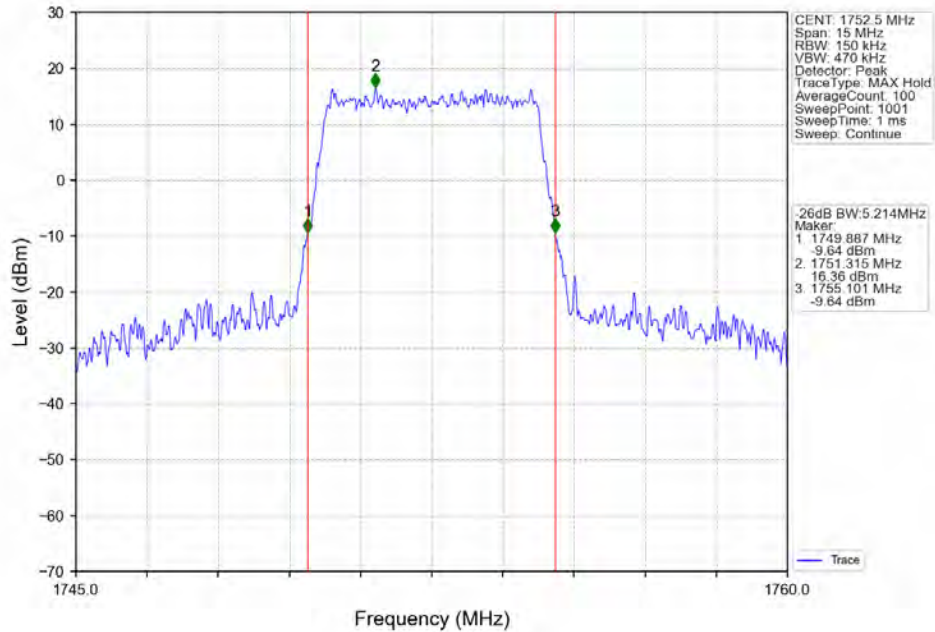
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Band4_5MHz_64QAM_HCH_1752.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_LCH_1712.5MHz_RB_25_0_NTNV



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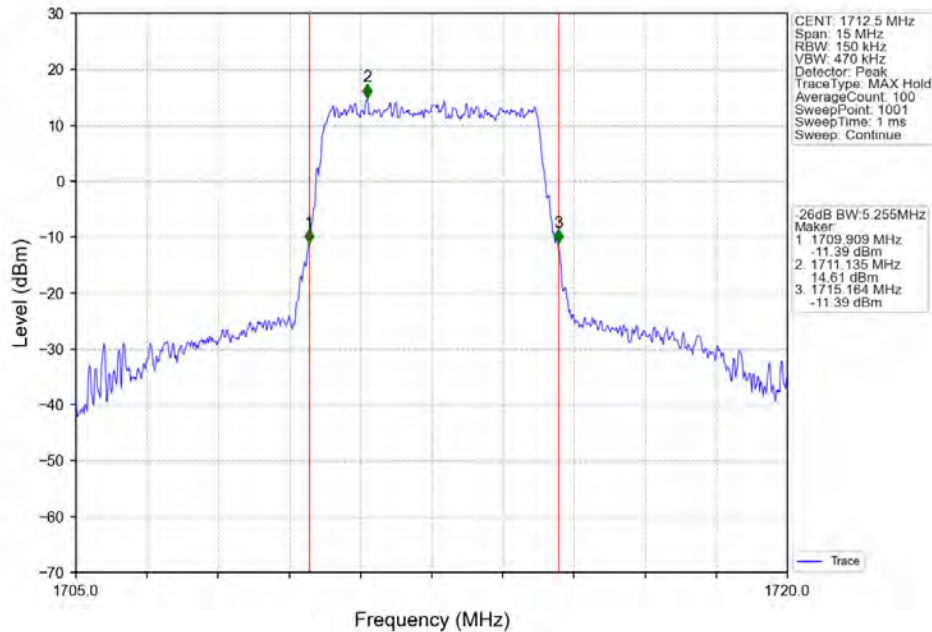
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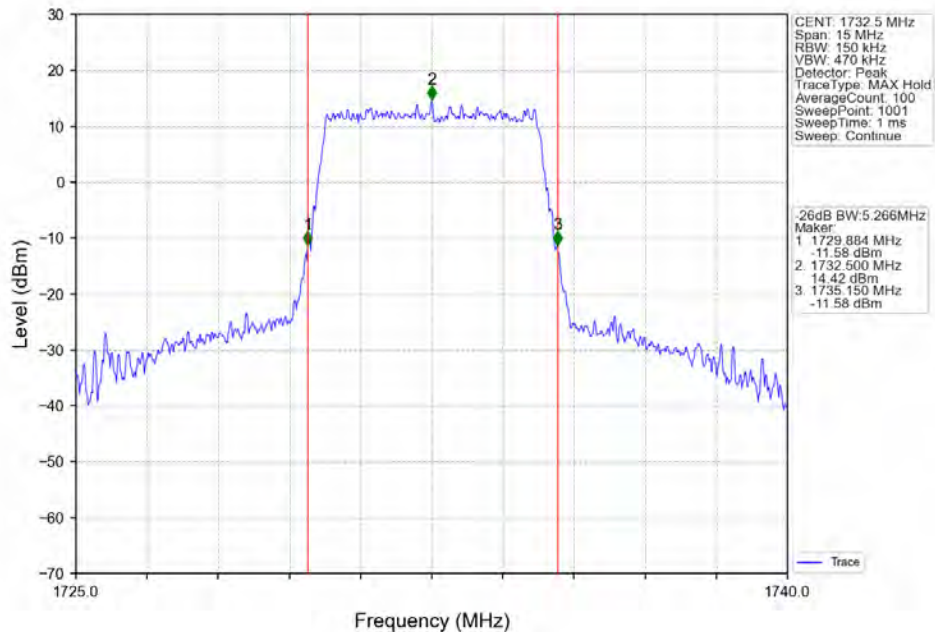
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Band4_5MHz_256QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_HCH_1752.5MHz_RB_25_0_NTNV



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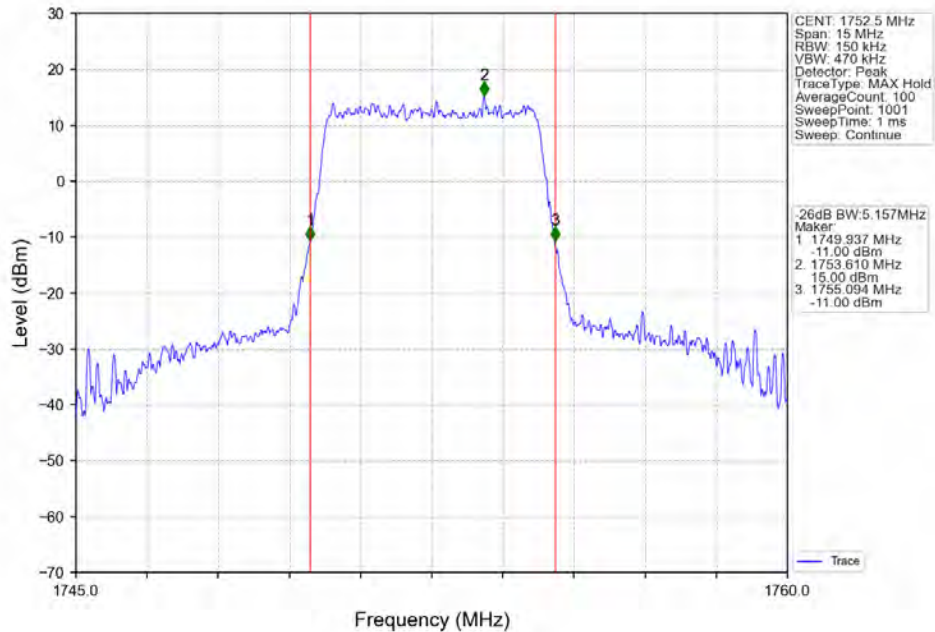
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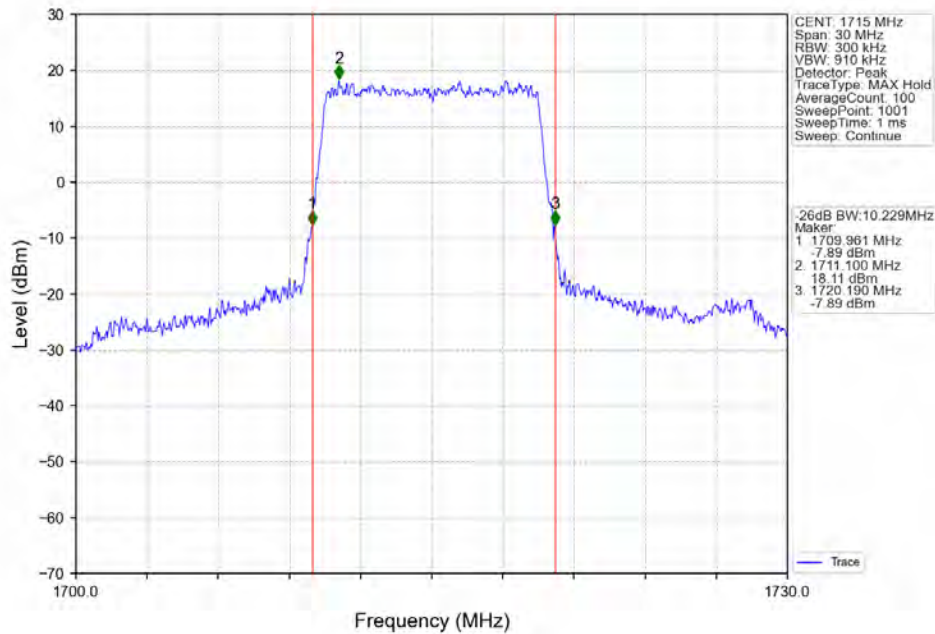
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Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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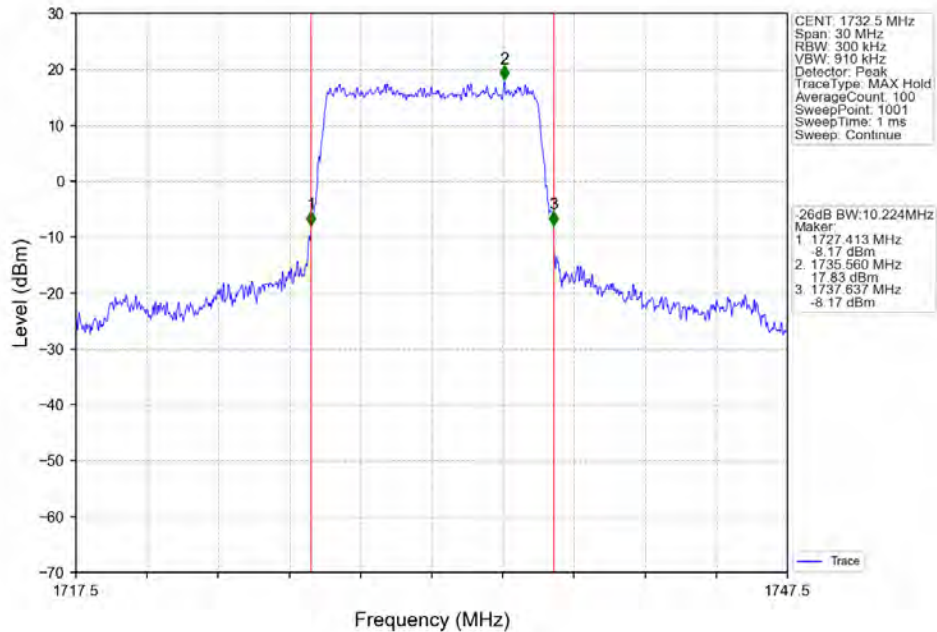
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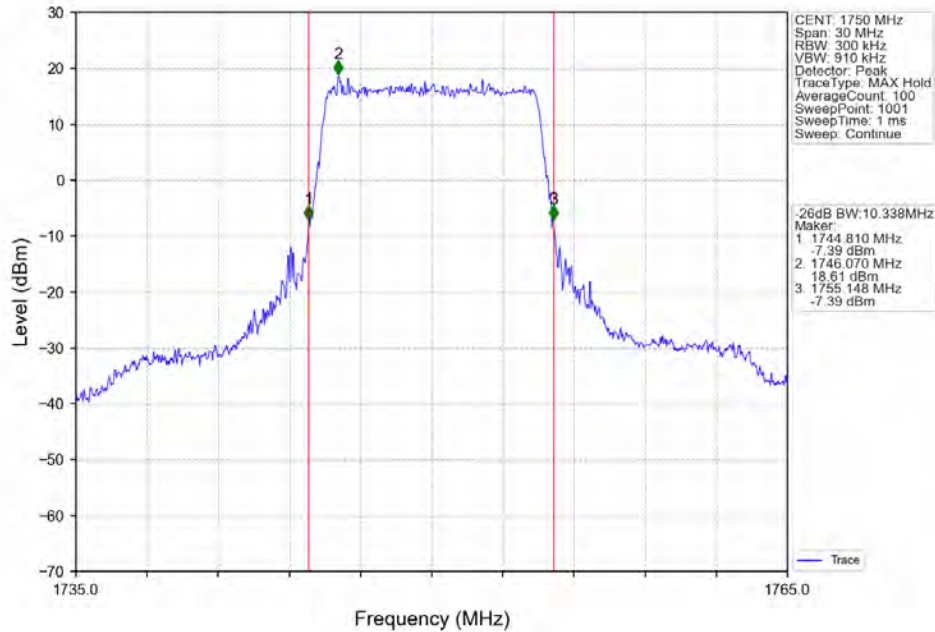
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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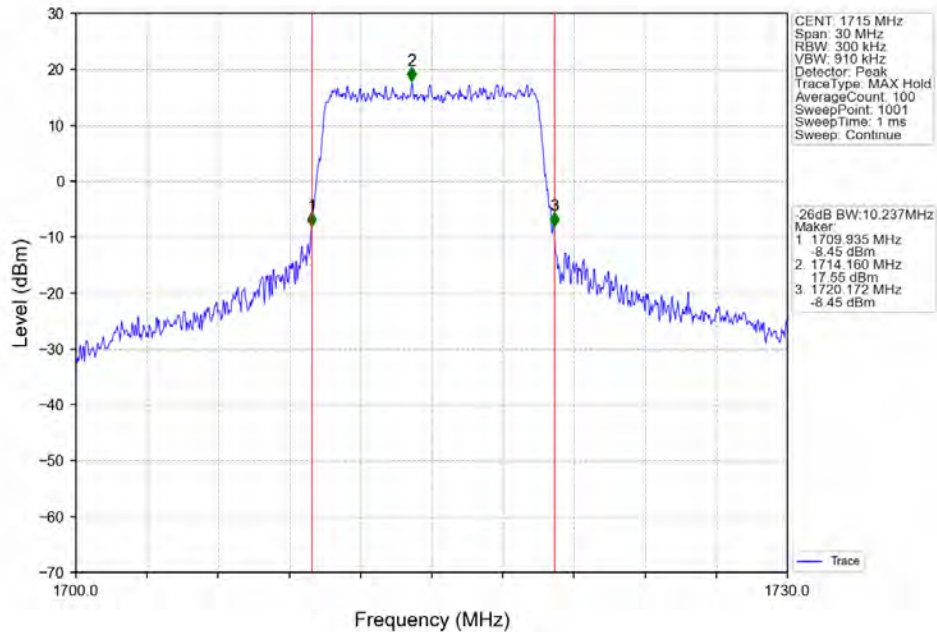
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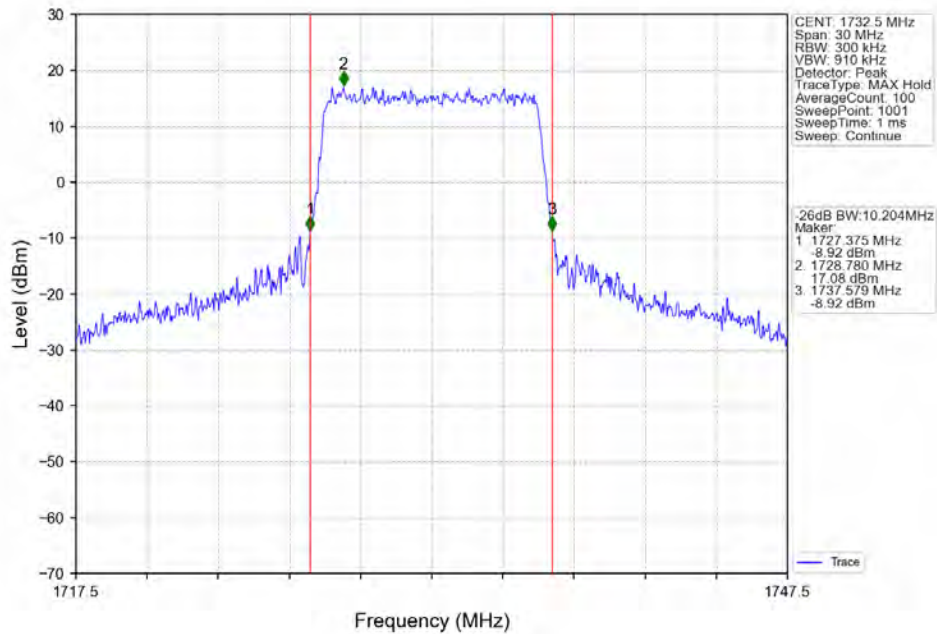
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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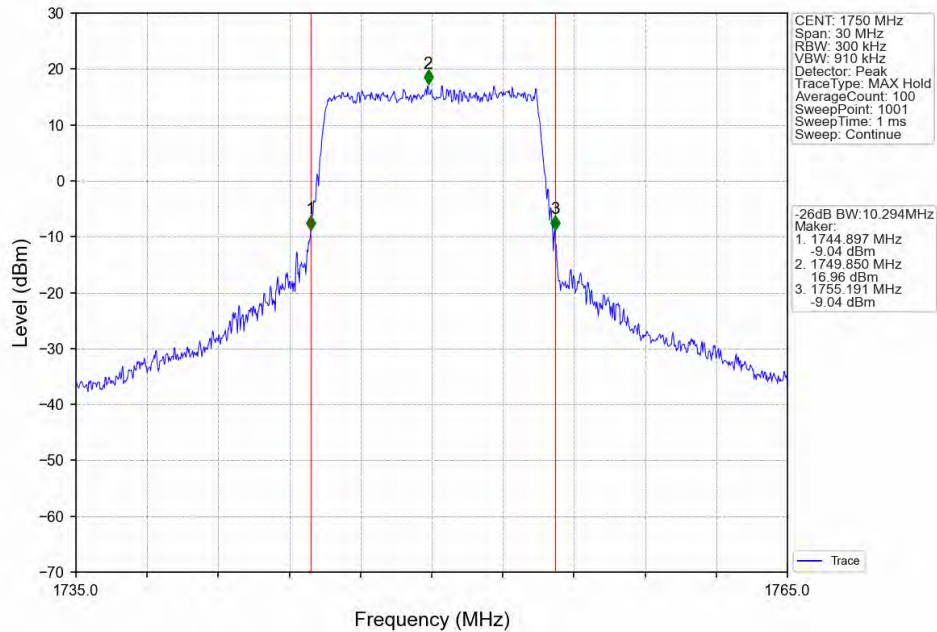
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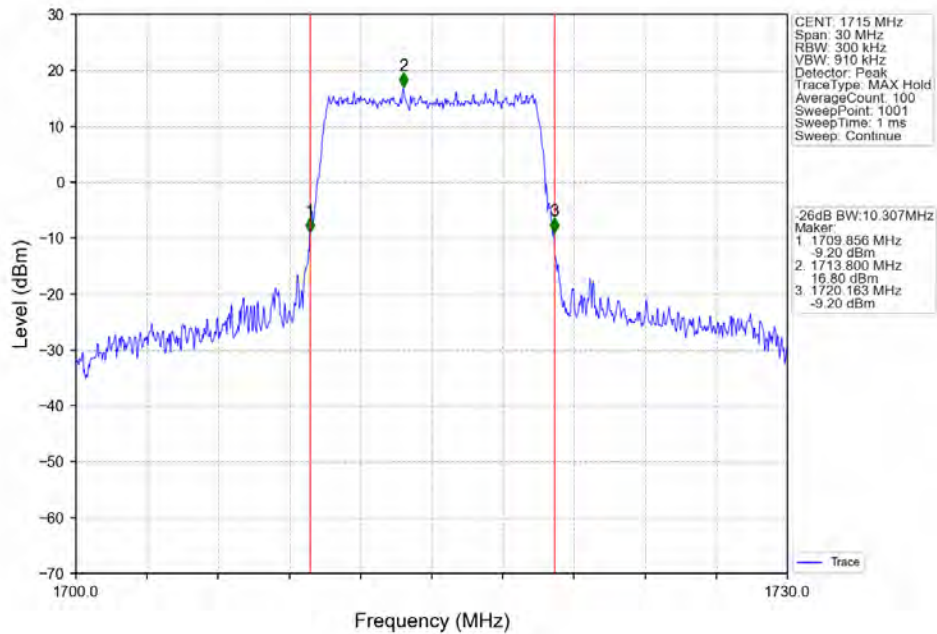
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Band4_10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV



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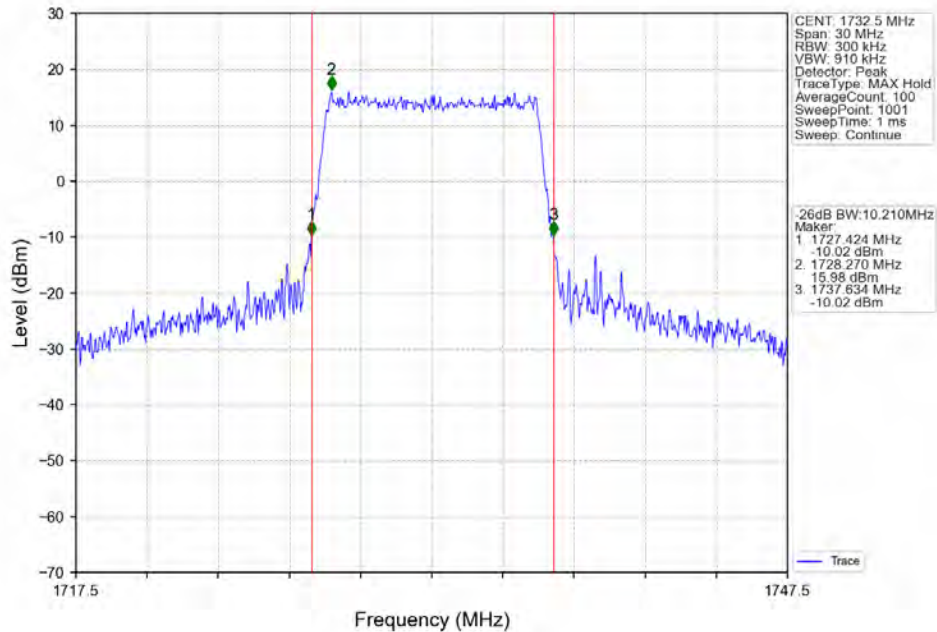
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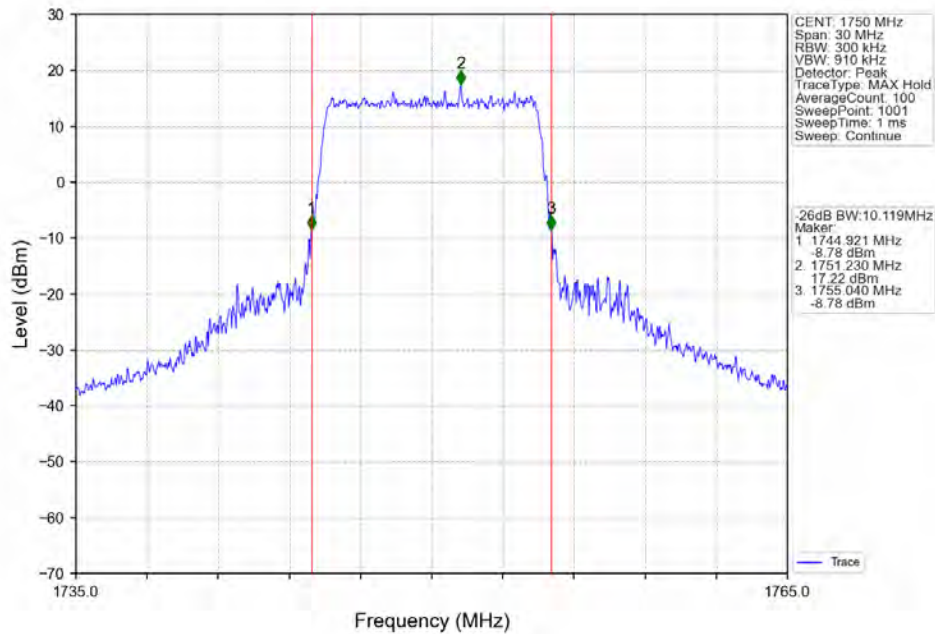
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Band4_10MHz_256QAM_LCH_1715MHz_RB_50_0_NTNV



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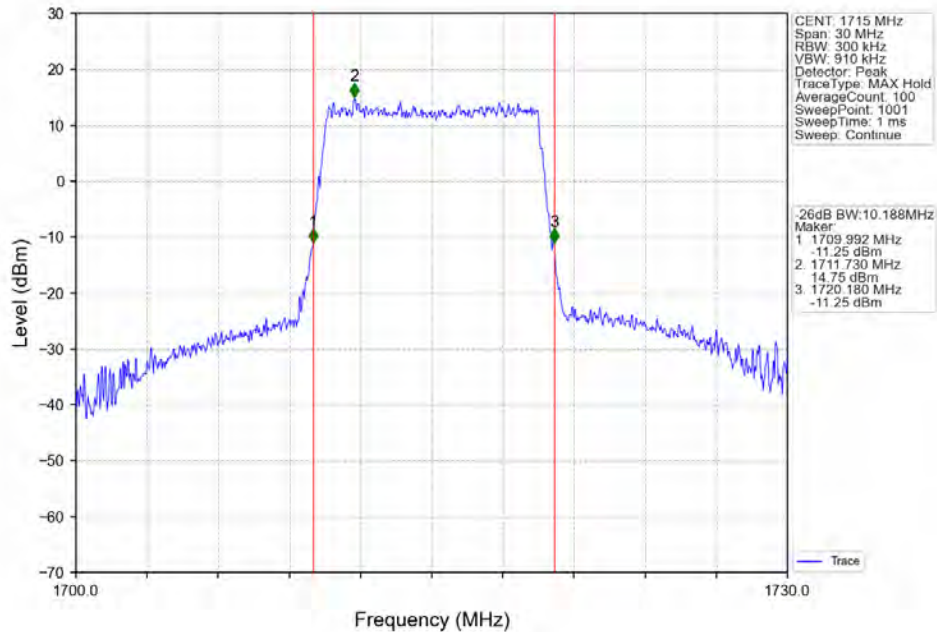
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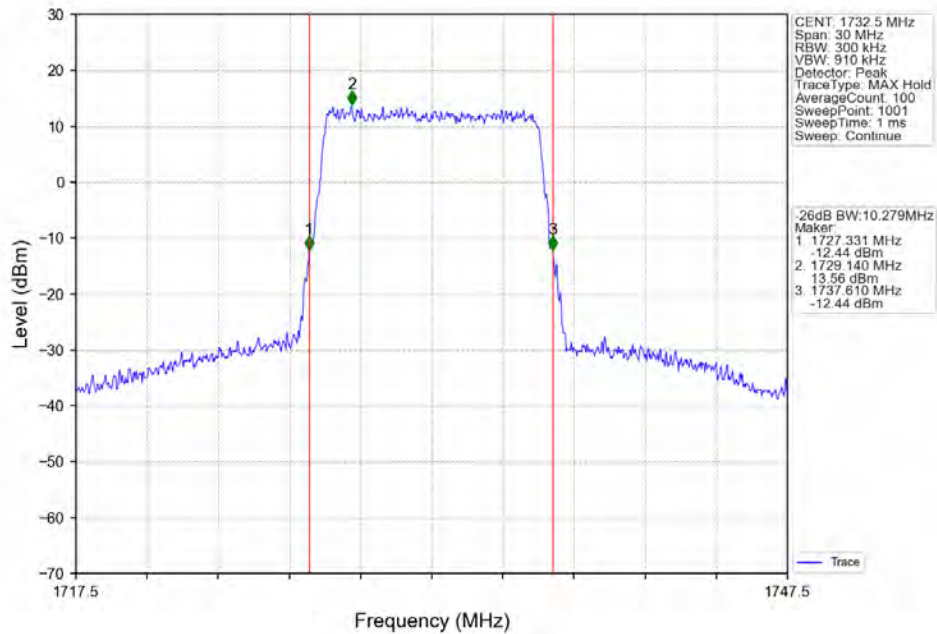
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Band4_10MHz_256QAM_HCH_1750MHz_RB_50_0_NTNV



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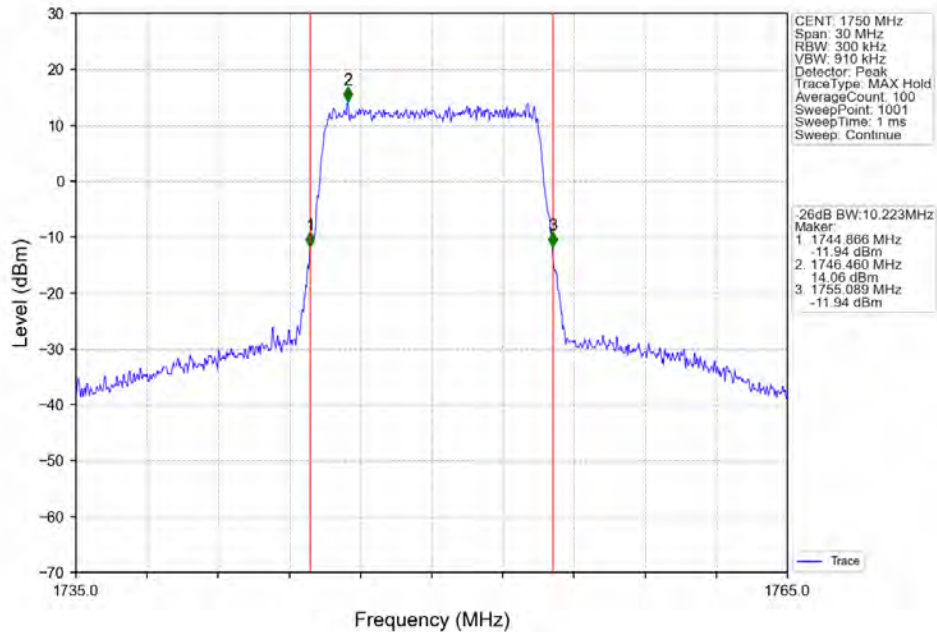
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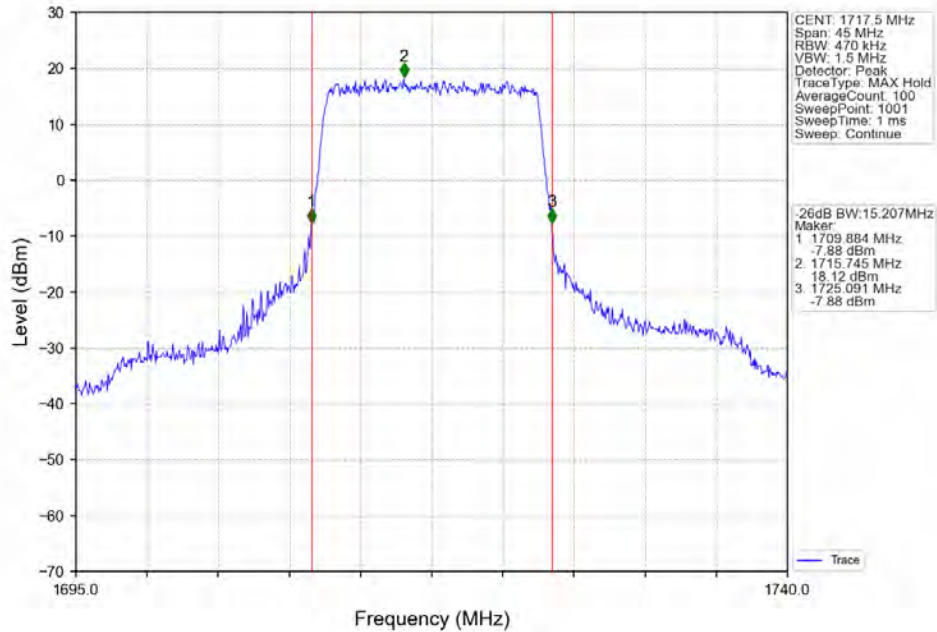
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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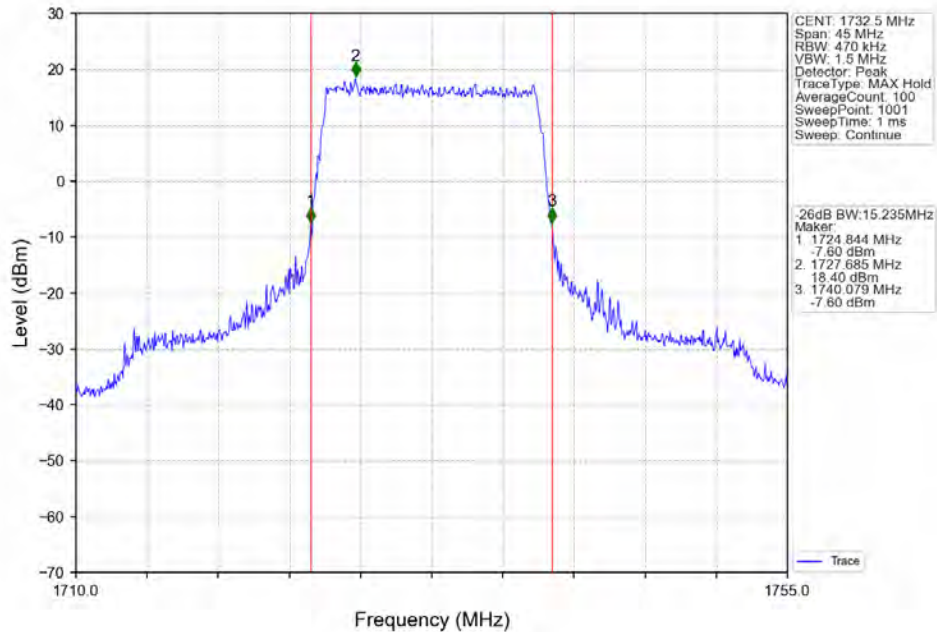
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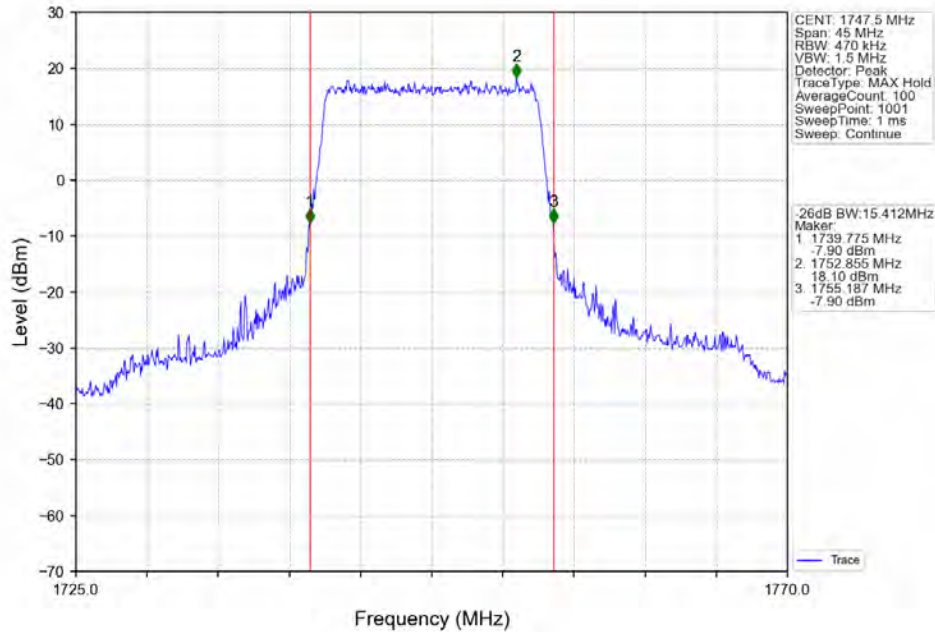
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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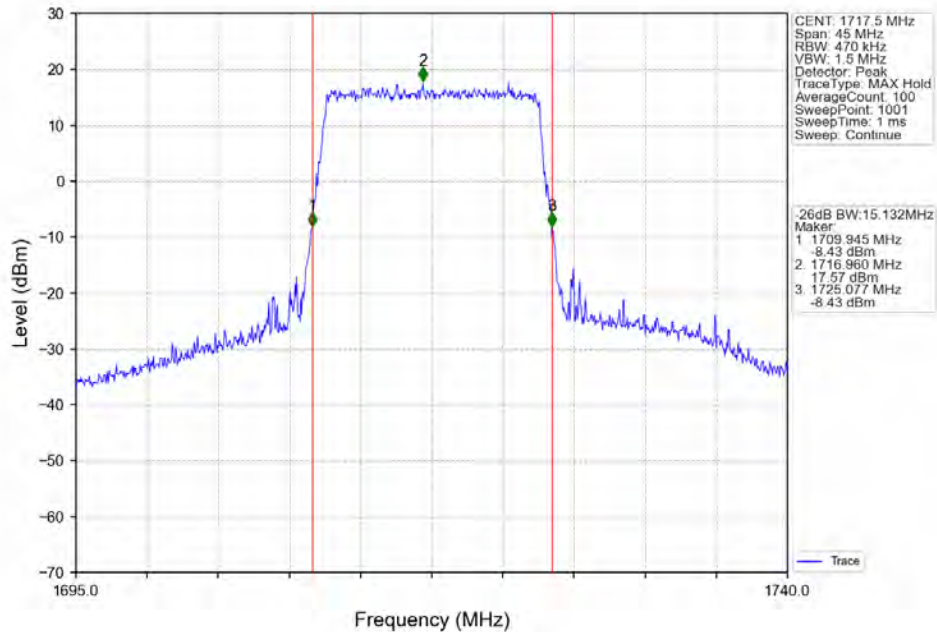
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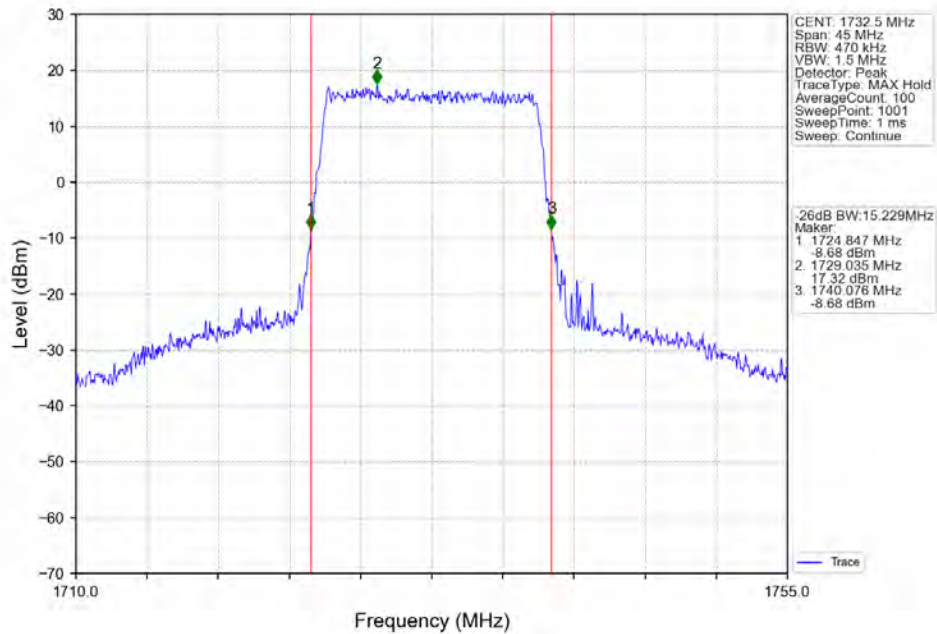
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Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



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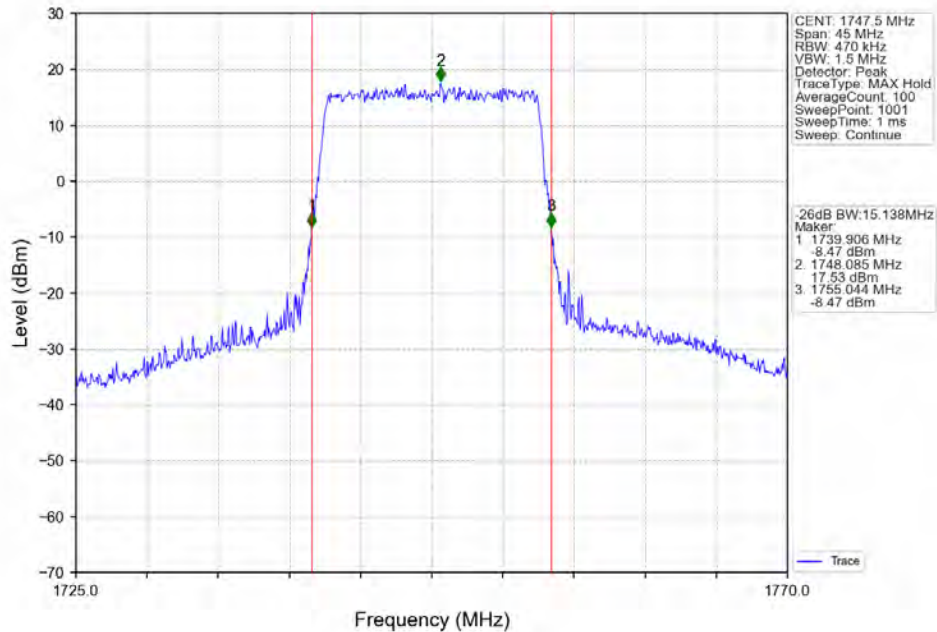
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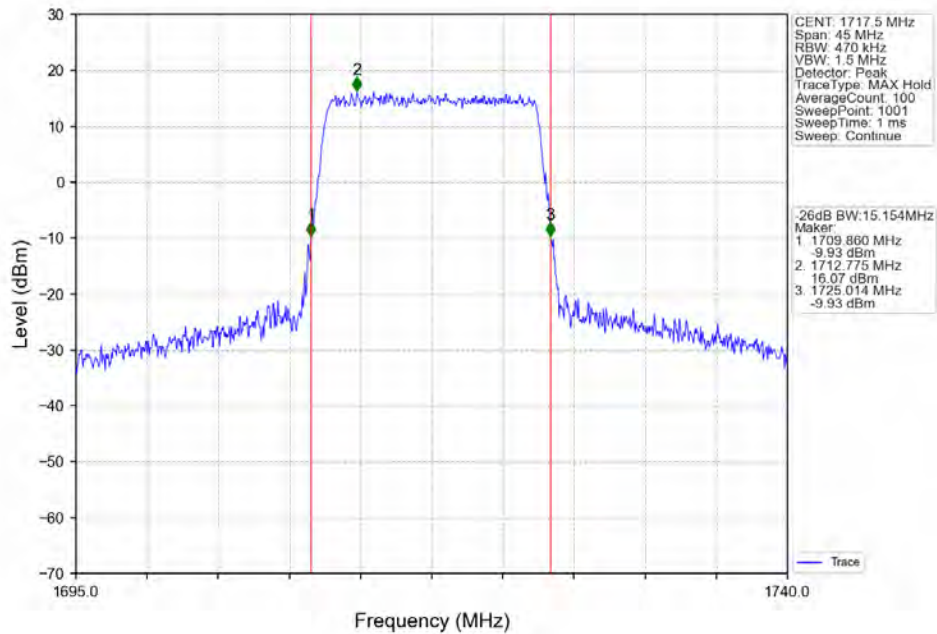
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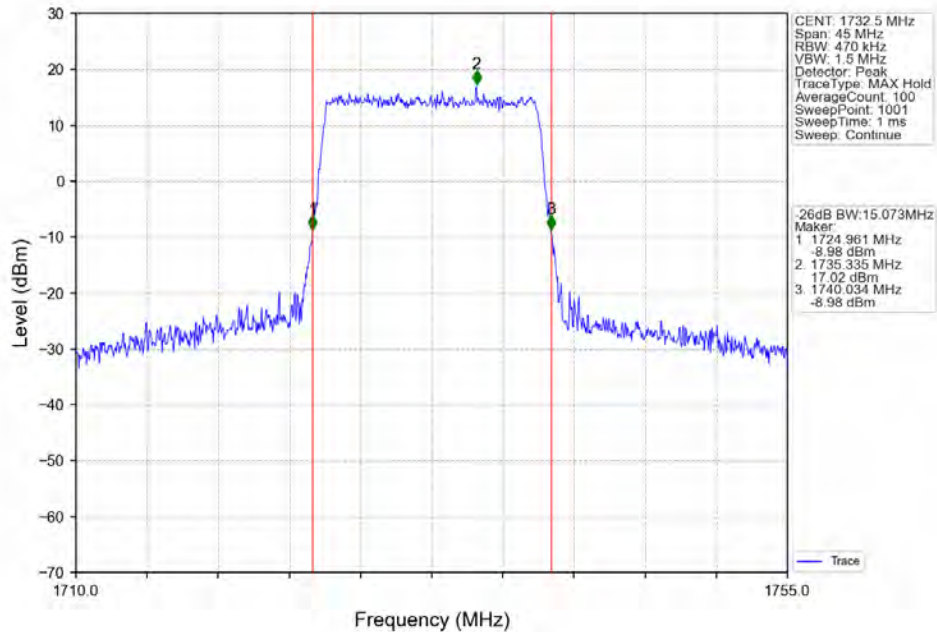
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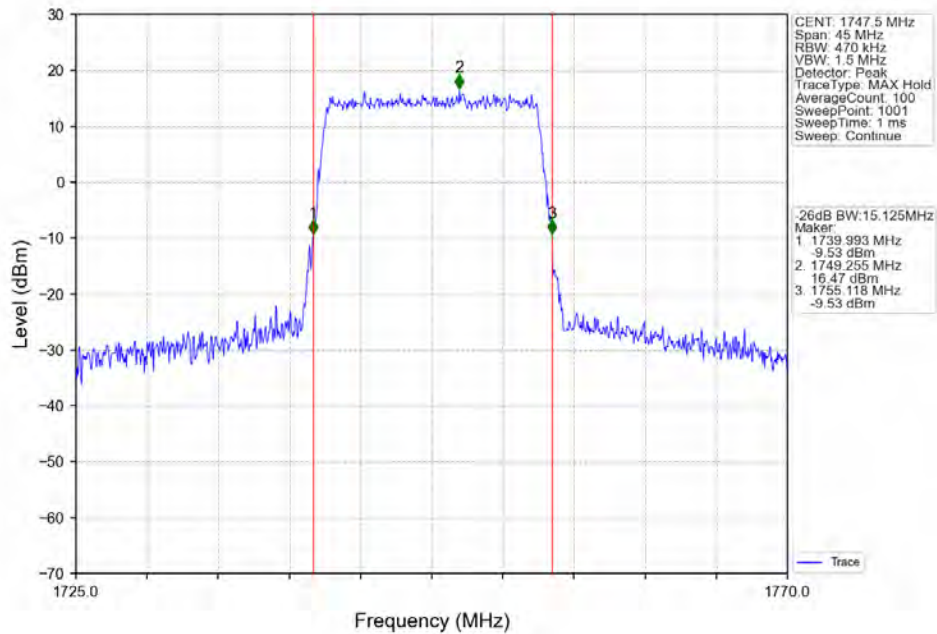
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Band4 15MHz 256QAM LCH 1717.5MHz RB 75 0 NTN



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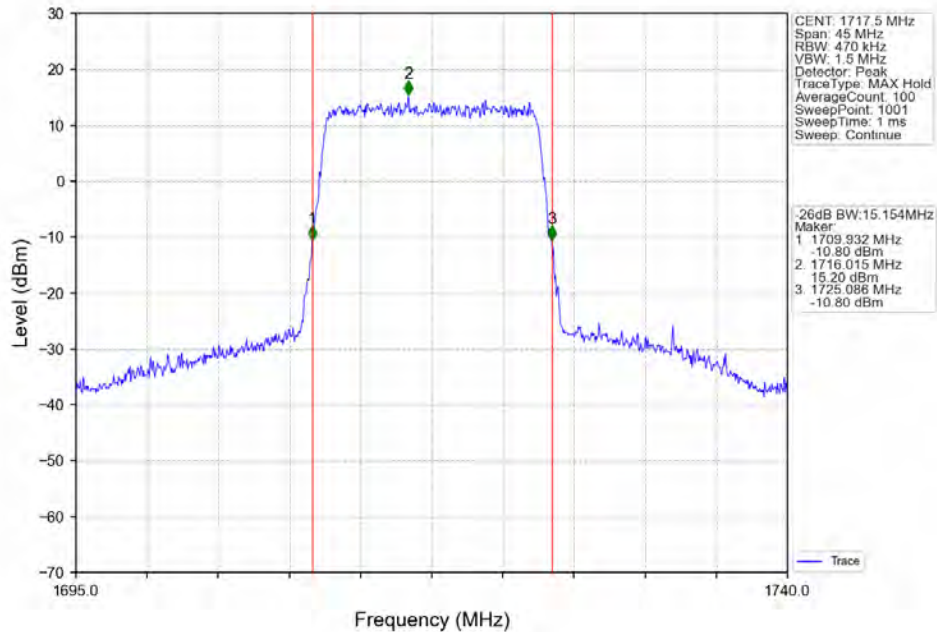
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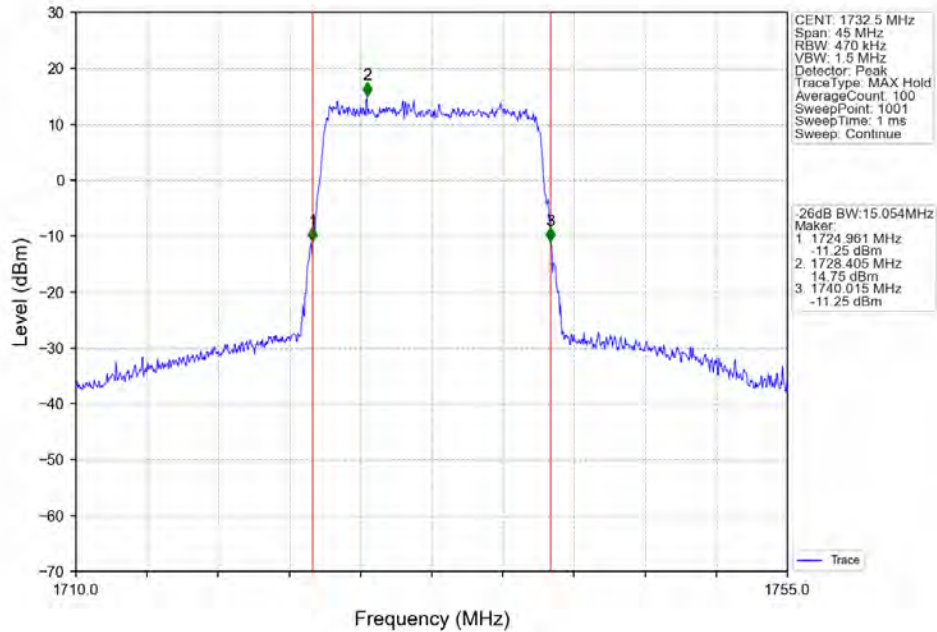
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Band4_15MHz_256QAM_HCH_1747.5MHz_RB_75_0_NTNV



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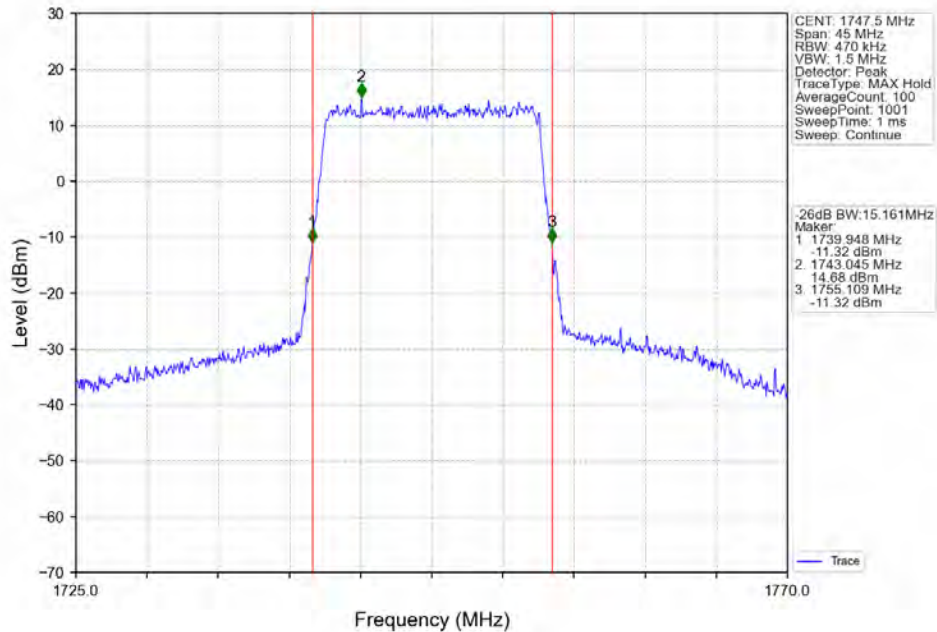
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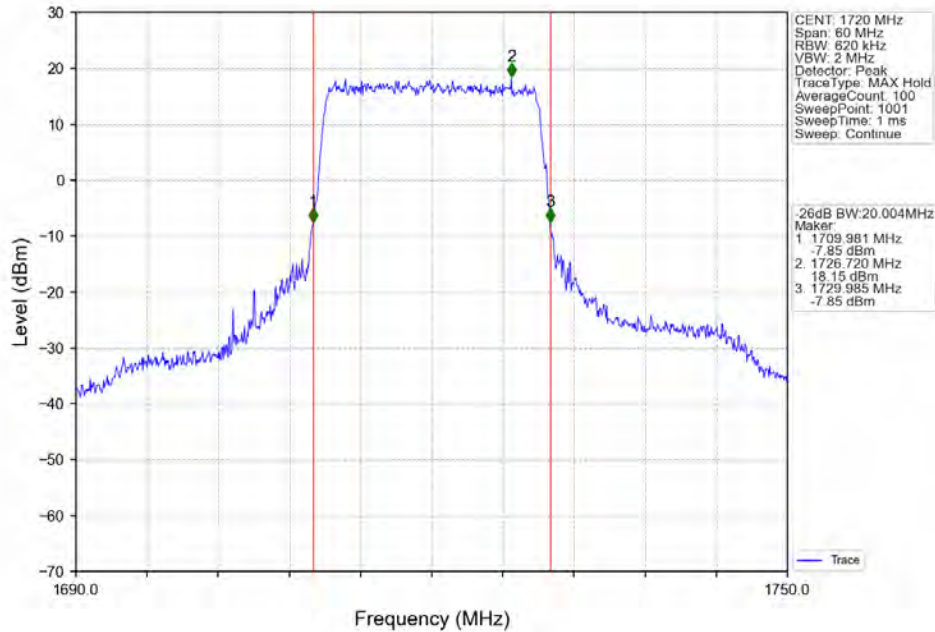
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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



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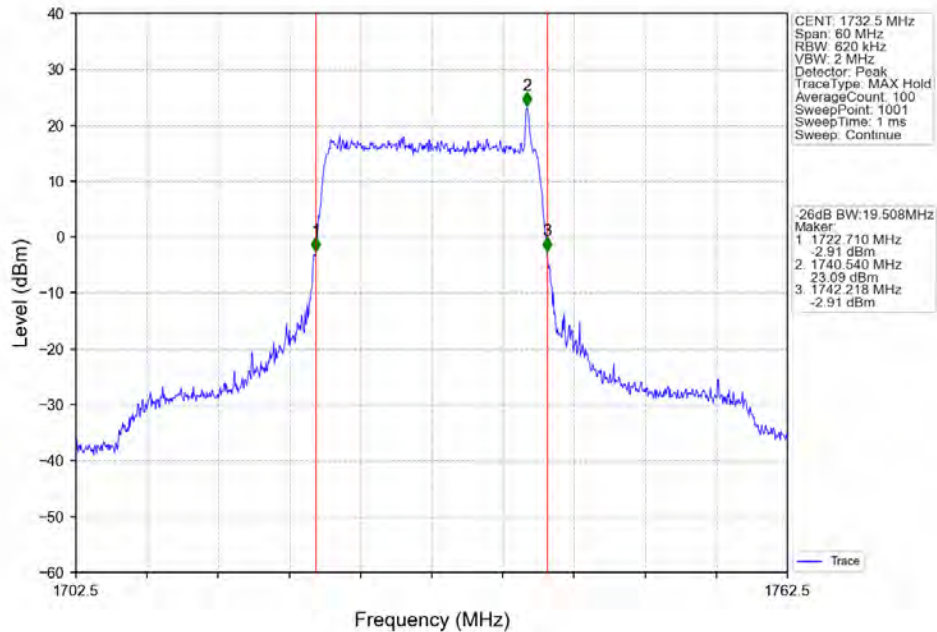
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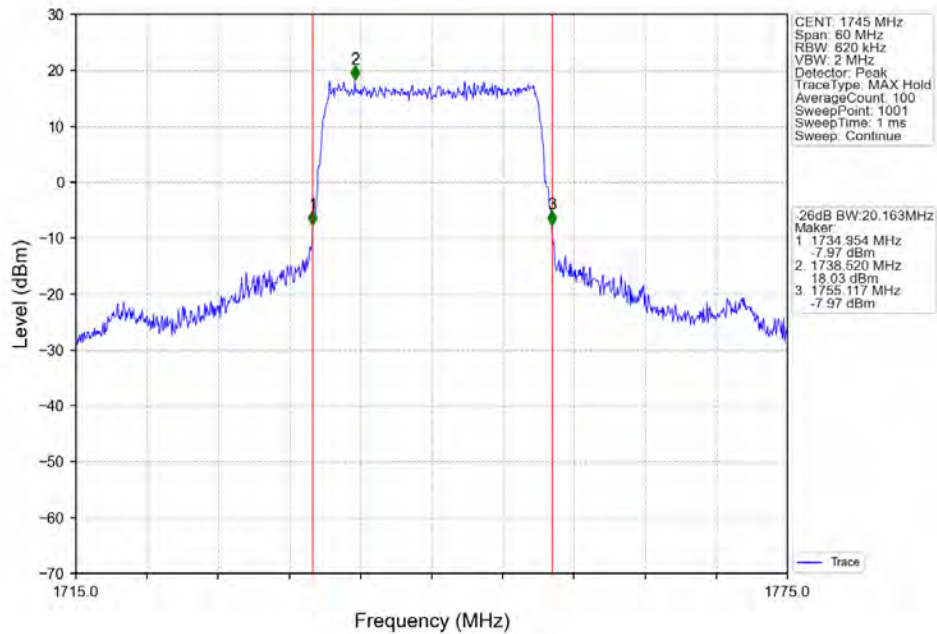
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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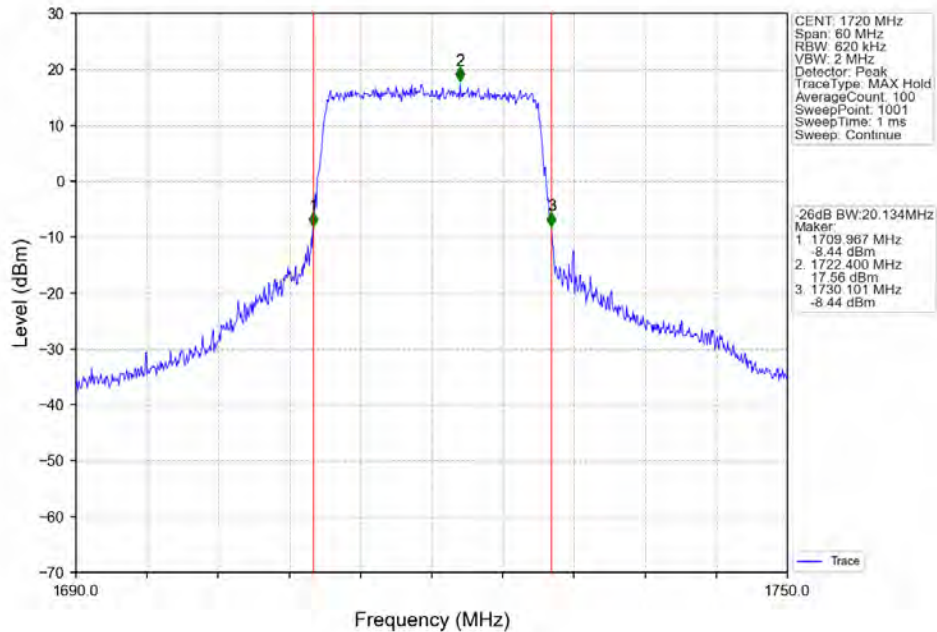
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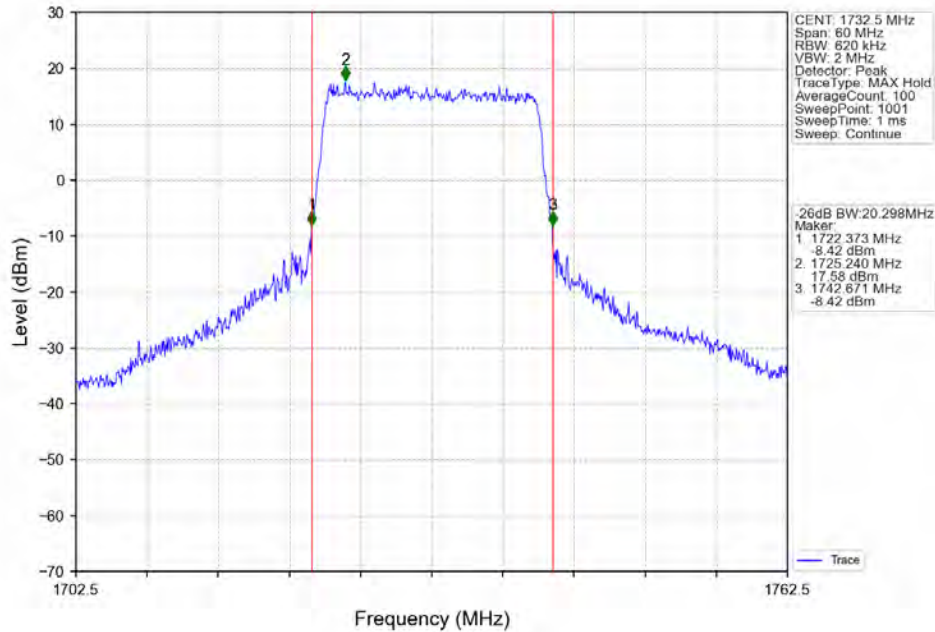
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Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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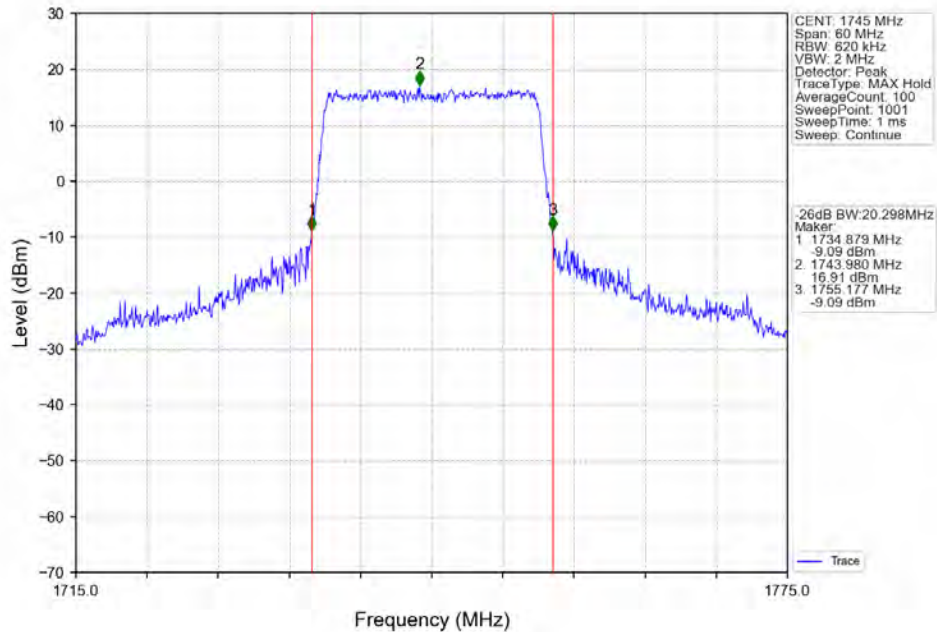
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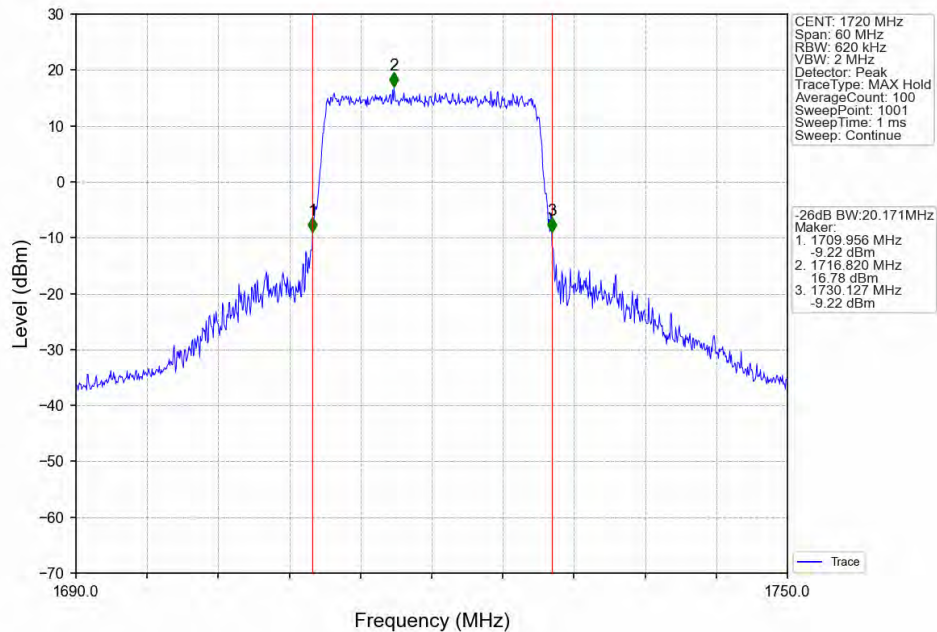
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Band4_20MHz_64QAM_LCH_1720MHz_RB_100_0_NTNV



Band4_20MHz_64QAM_MCH_1732.5MHz_RB_100_0_NTNV



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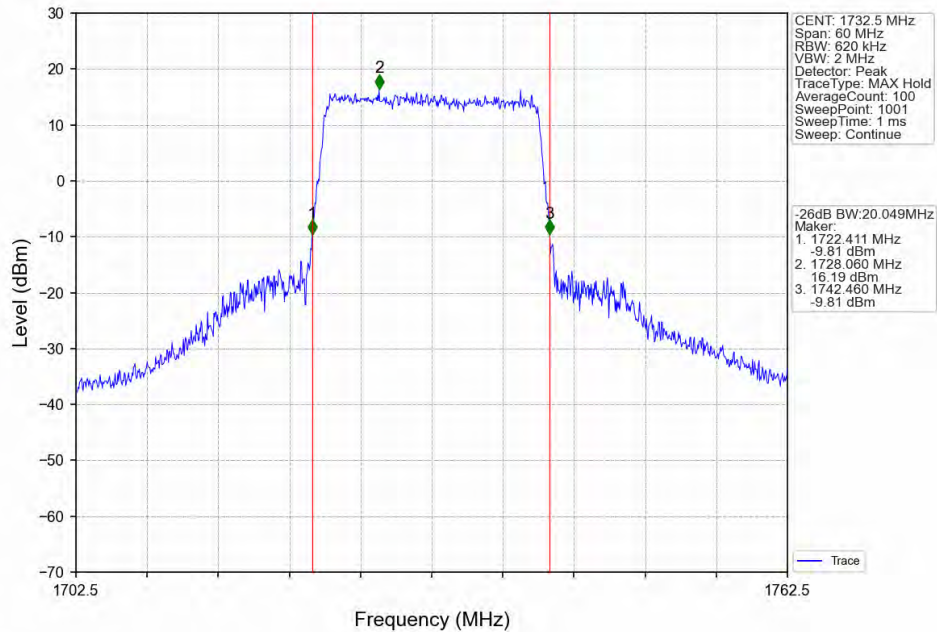
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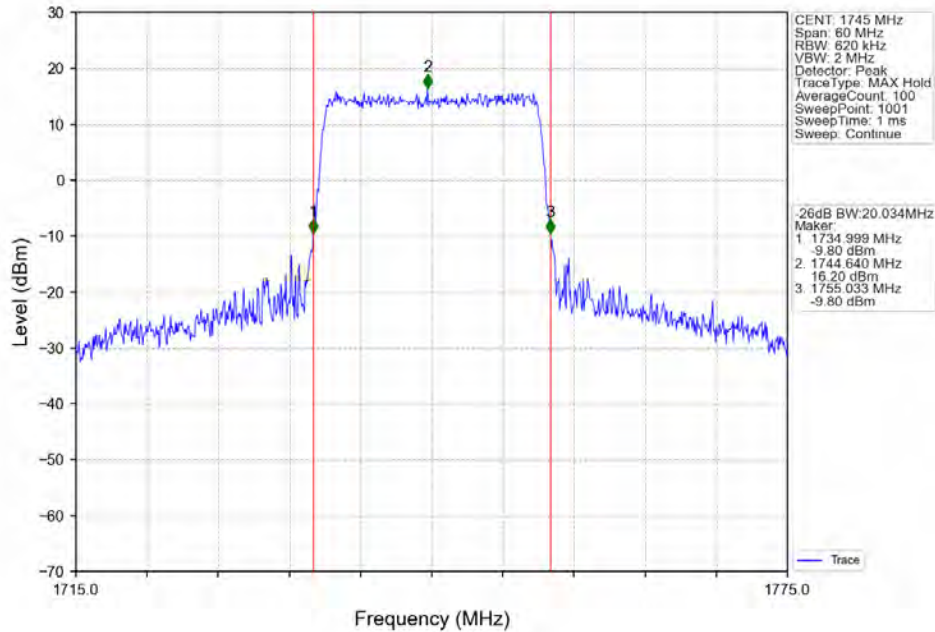
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Band4_20MHz_256QAM_LCH_1720MHz_RB_100_0_NTNV



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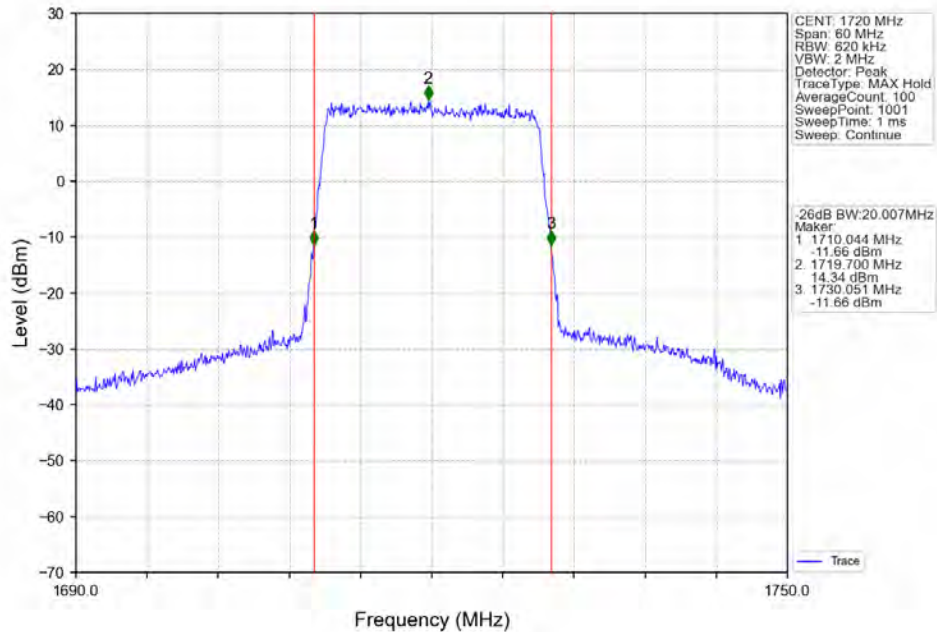
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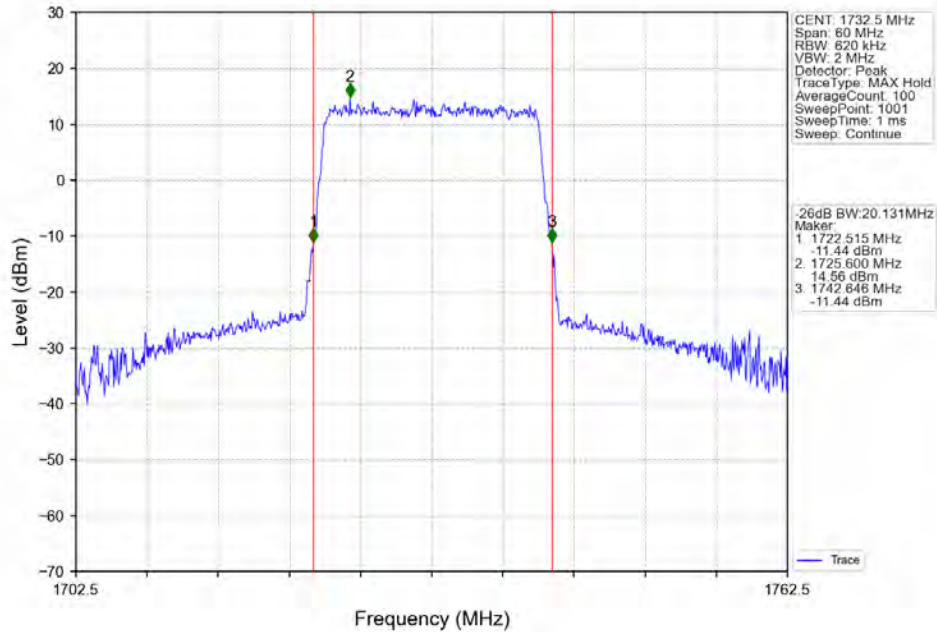
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Band4 20MHz 256QAM MCH 1732.5MHz RB 100 0 NTNV



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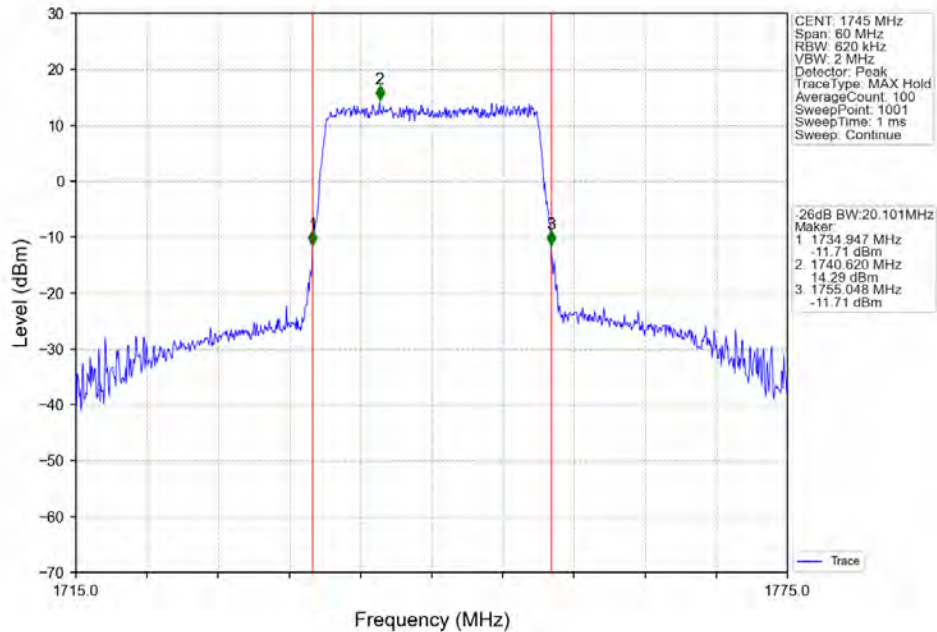
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5. Peak-Average Ratio

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.06	<=13	Pass
	1732.5	6	0	4.69	<=13	Pass
	1754.3	6	0	4.94	<=13	Pass
16QAM	1710.7	6	0	6.01	<=13	Pass
	1732.5	6	0	5.70	<=13	Pass
	1754.3	6	0	5.93	<=13	Pass
64QAM	1710.7	6	0	6.67	<=13	Pass
	1732.5	6	0	6.40	<=13	Pass
	1754.3	6	0	6.57	<=13	Pass
256QAM	1710.7	6	0	7.02	<=13	Pass
	1732.5	6	0	7.03	<=13	Pass
	1754.3	6	0	6.95	<=13	Pass



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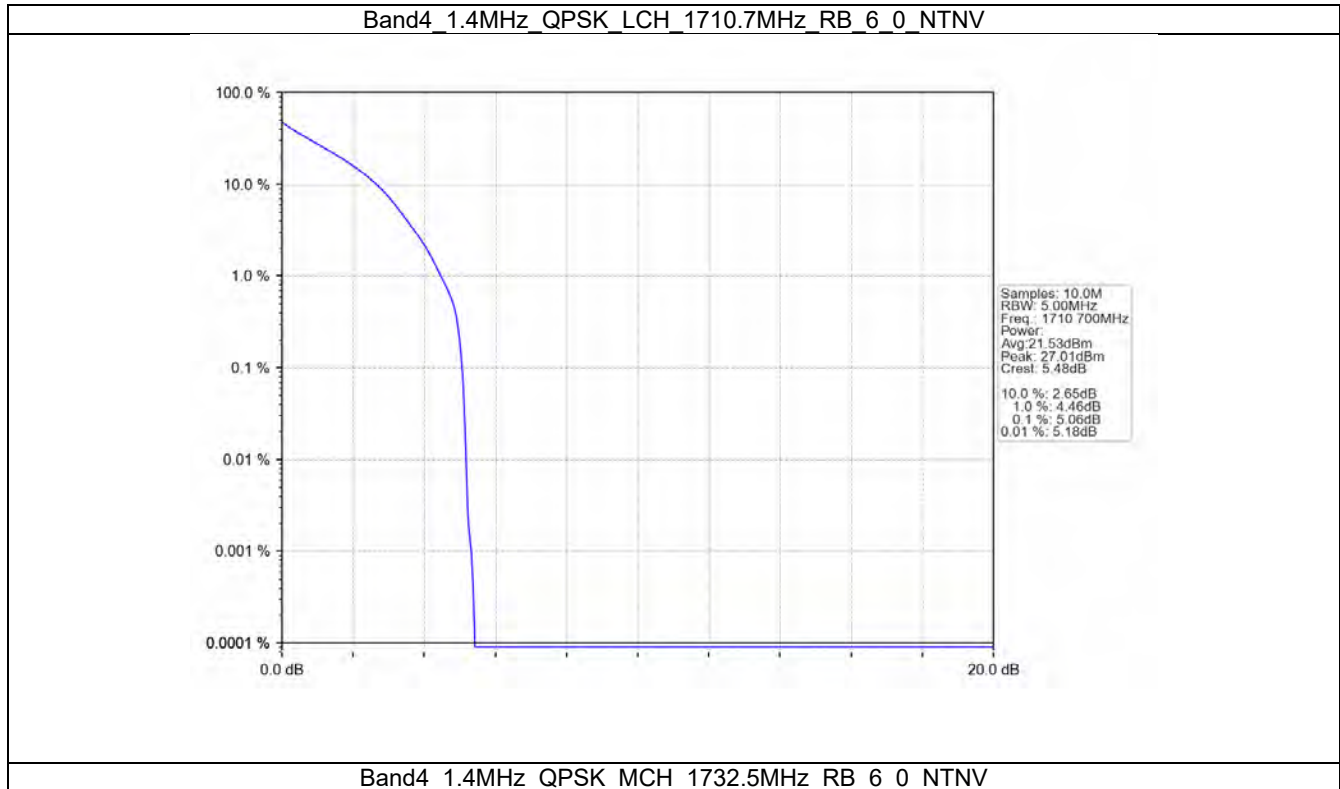
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5.1.2 Test Graph



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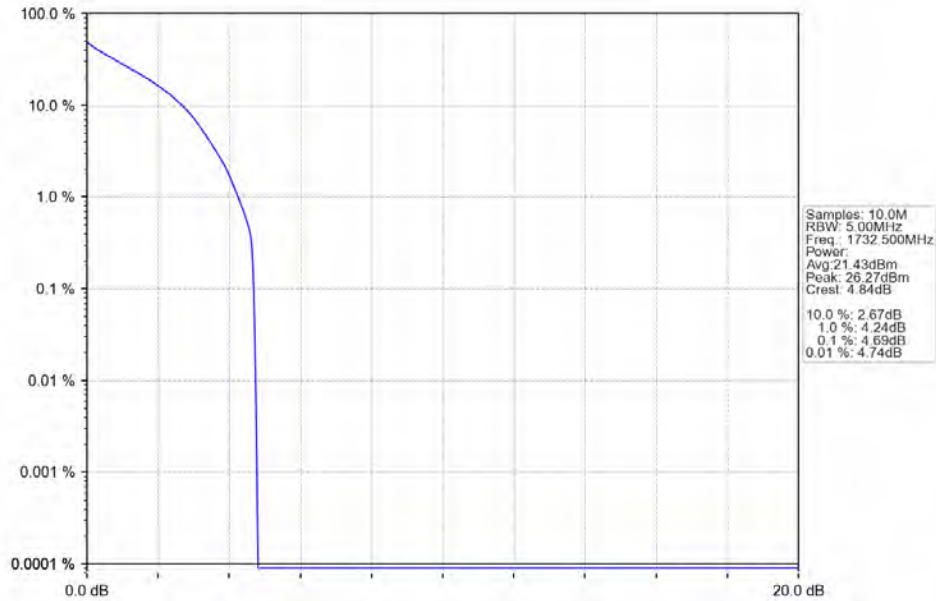
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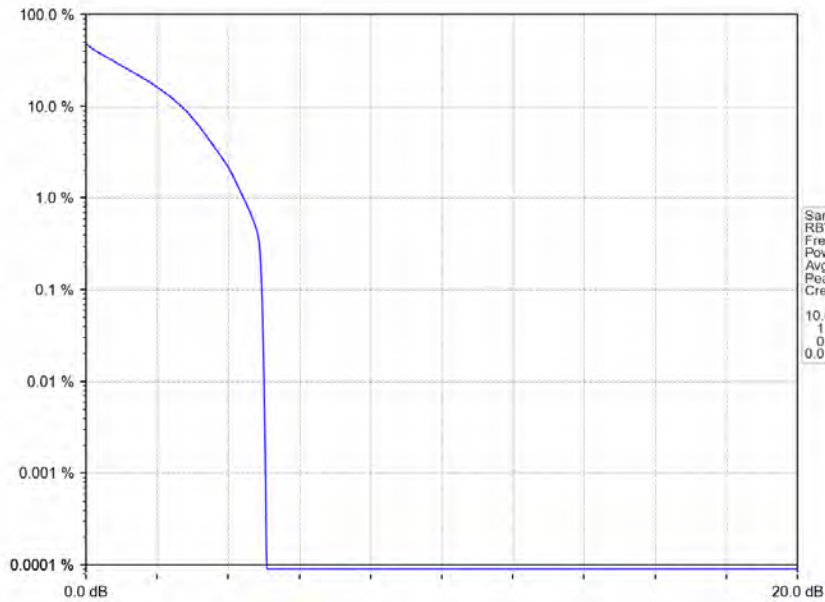
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Band4 1.4MHz QPSK HCH 1754.3MHz RB 6 0 NTV



Band4 1.4MHz 16QAM LCH 1710.7MHz RB 6 0 NTV



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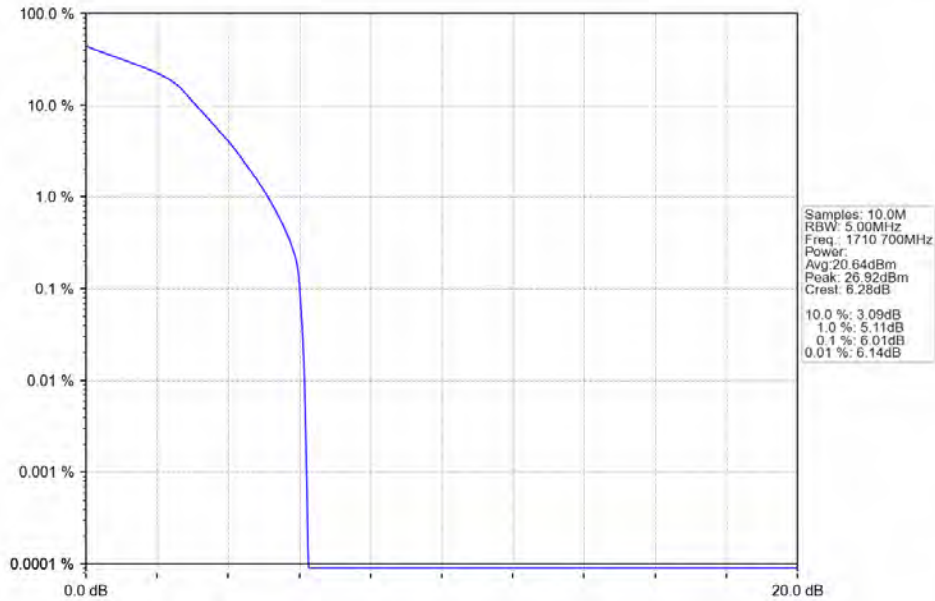
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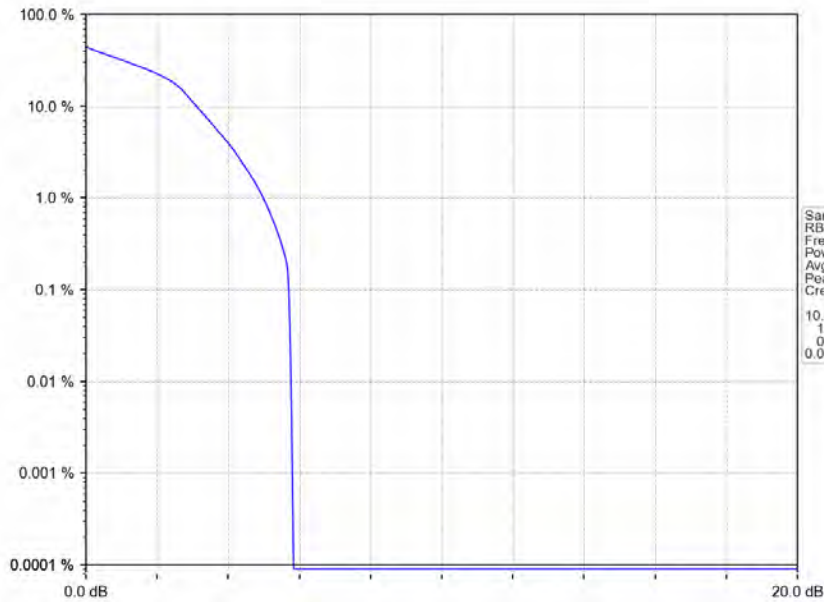
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Band4 1.4MHz 16QAM MCH 1732.5MHz_RB_6_0 NTN



Band4 1.4MHz 16QAM HCH 1754.3MHz_RB_6_0 NTN



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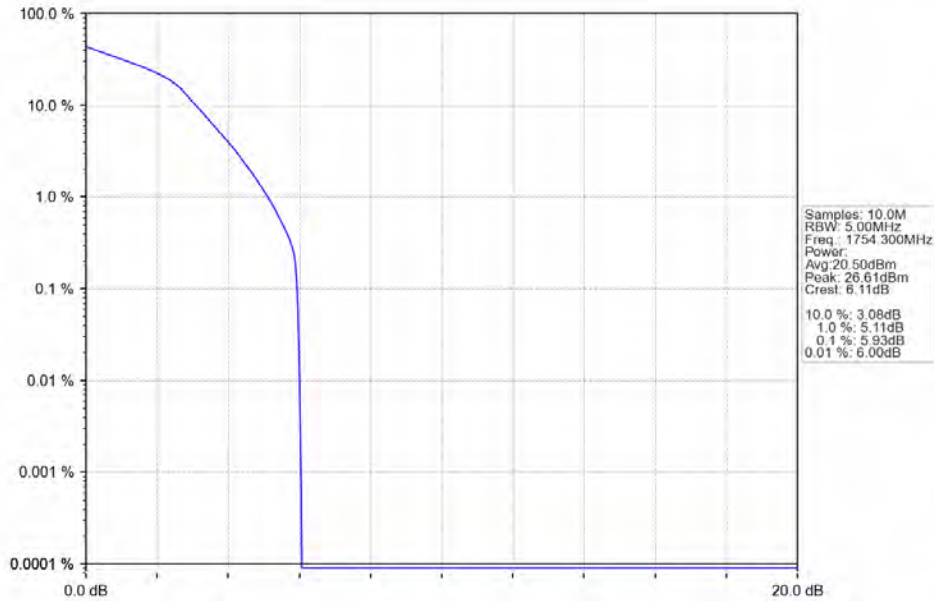
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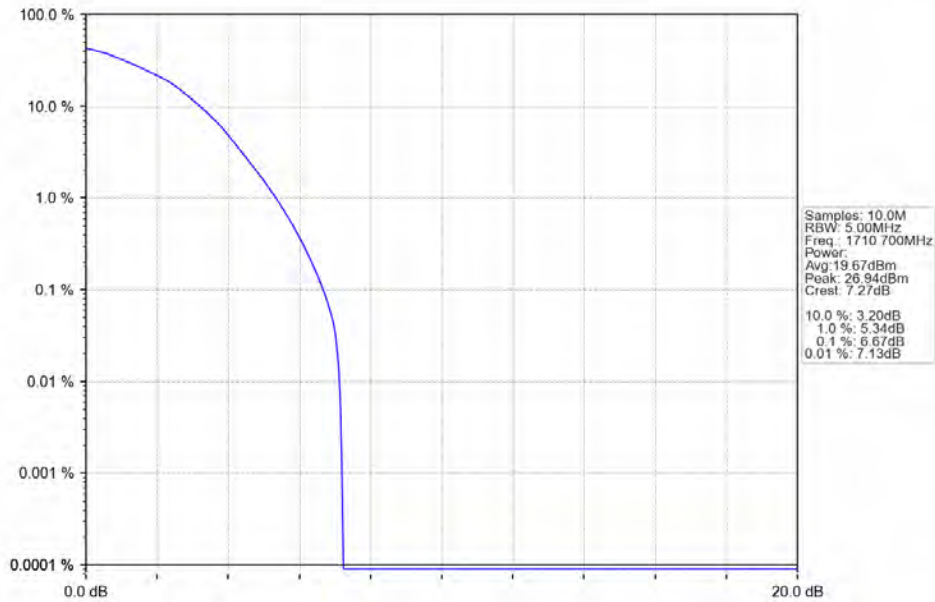
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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



Band4_1.4MHz_64QAM_MCH_1732.5MHz_RB_6_0_NTNV



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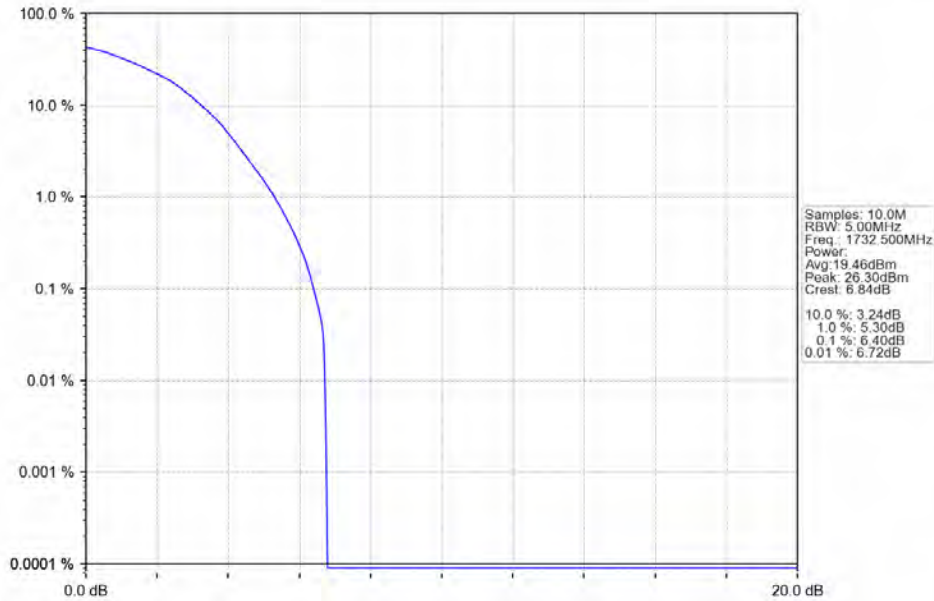
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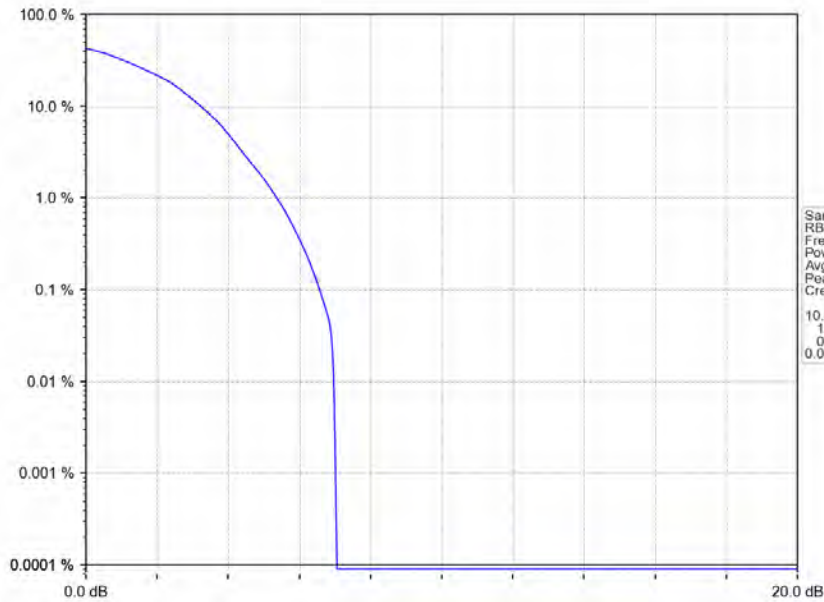
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Band4 1.4MHz 64QAM HCH 1754.3MHz_RB_6_0 NTN



Band4 1.4MHz 256QAM LCH 1710.7MHz_RB_6_0 NTN



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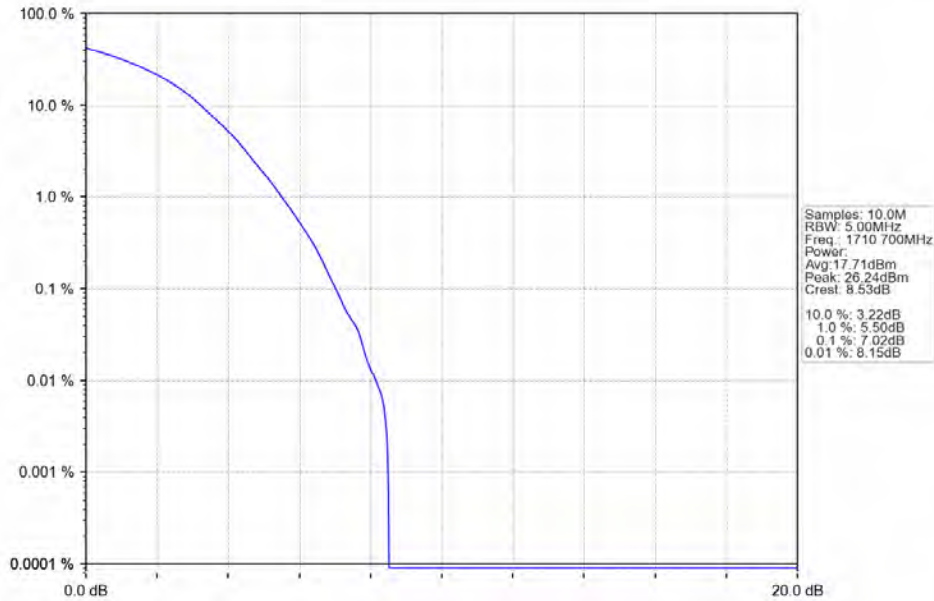
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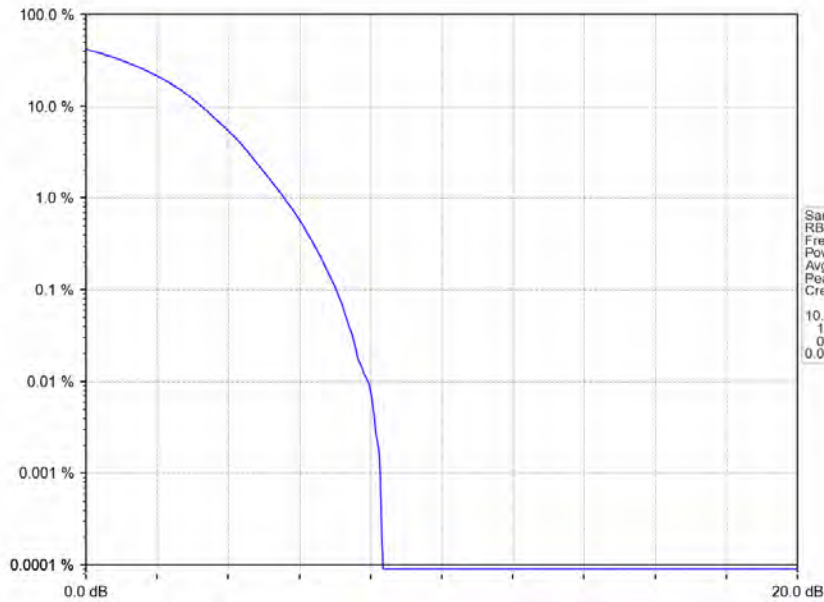
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Band4 1.4MHz 256QAM MCH 1732.5MHz RB 6 0 NTN



Samples: 10.0M
RBW: 5.00MHz
Freq: 1732.500MHz
Power:
Avg: 17.41dBm
Peak: 25.77dBm
Crest: 8.36dB
10.0 %: 3.25dB
1.0 %: 5.57dB
0.1 %: 7.03dB
0.01 %: 7.92dB

Band4 1.4MHz 256QAM HCH 1754.3MHz RB 6 0 NTN



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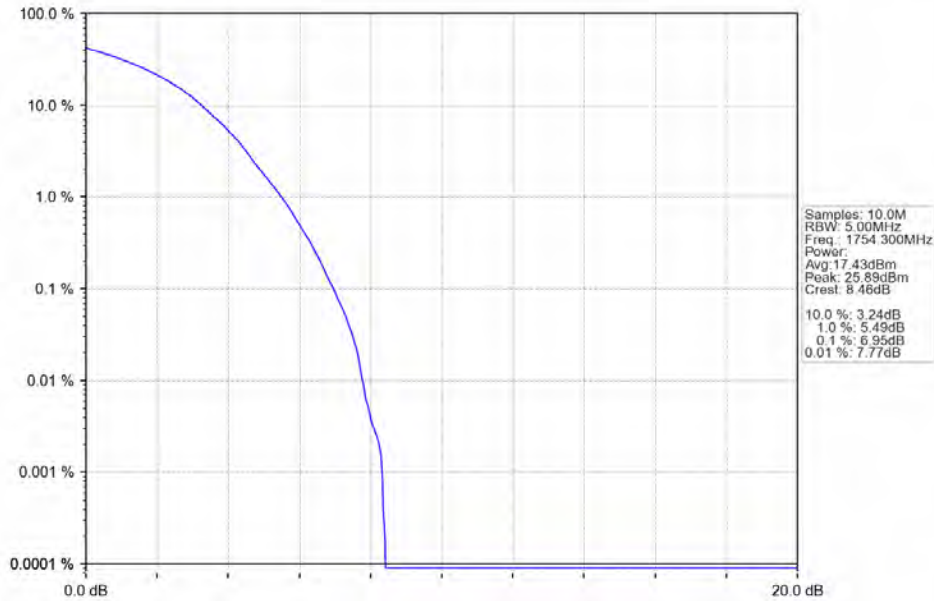
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5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.24	<=13	Pass
	1732.5	15	0	4.92	<=13	Pass
	1753.5	15	0	5.13	<=13	Pass
16QAM	1711.5	15	0	6.17	<=13	Pass
	1732.5	15	0	5.83	<=13	Pass
	1753.5	15	0	6.07	<=13	Pass
64QAM	1711.5	15	0	10.48	<=13	Pass
	1732.5	15	0	6.46	<=13	Pass
	1753.5	15	0	6.63	<=13	Pass
256QAM	1711.5	15	0	7.00	<=13	Pass
	1732.5	15	0	6.95	<=13	Pass
	1753.5	15	0	7.02	<=13	Pass



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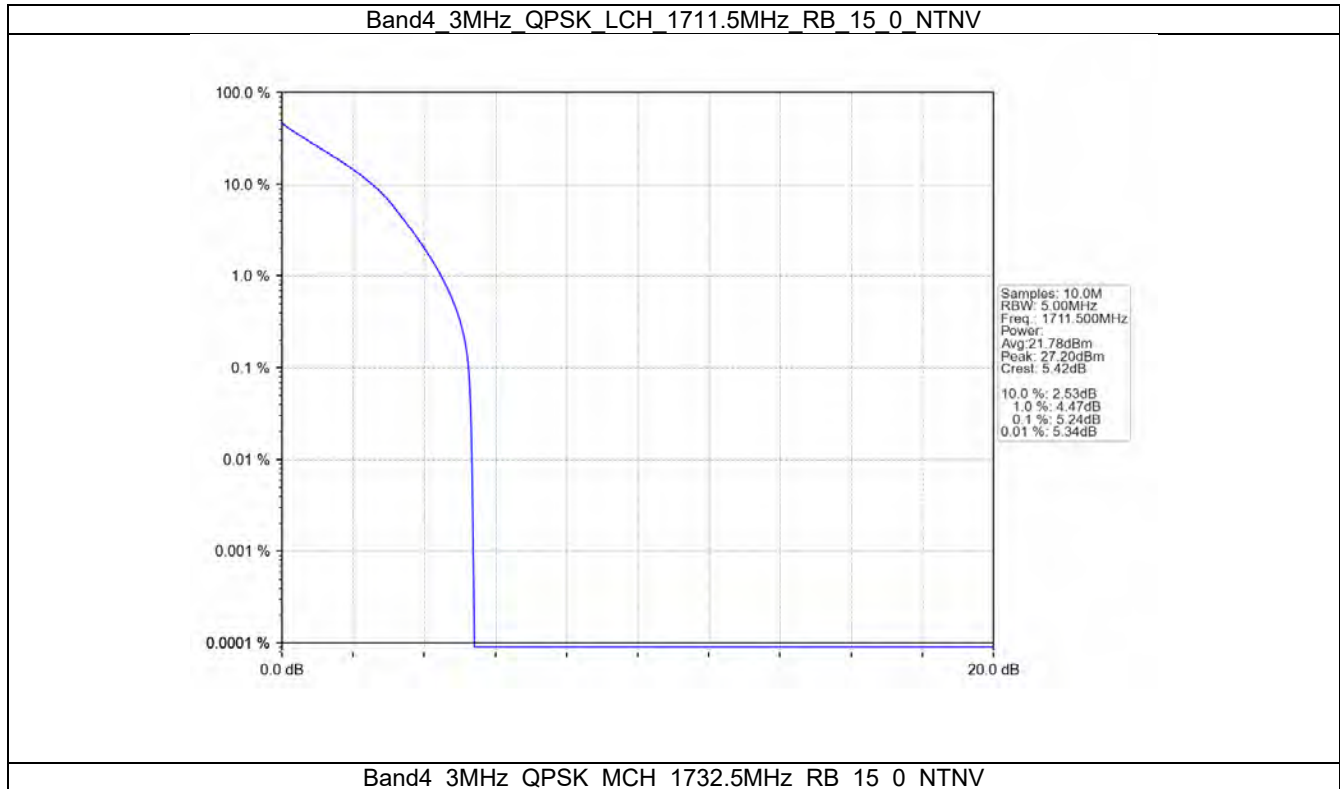
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5.2.2 Test Graph



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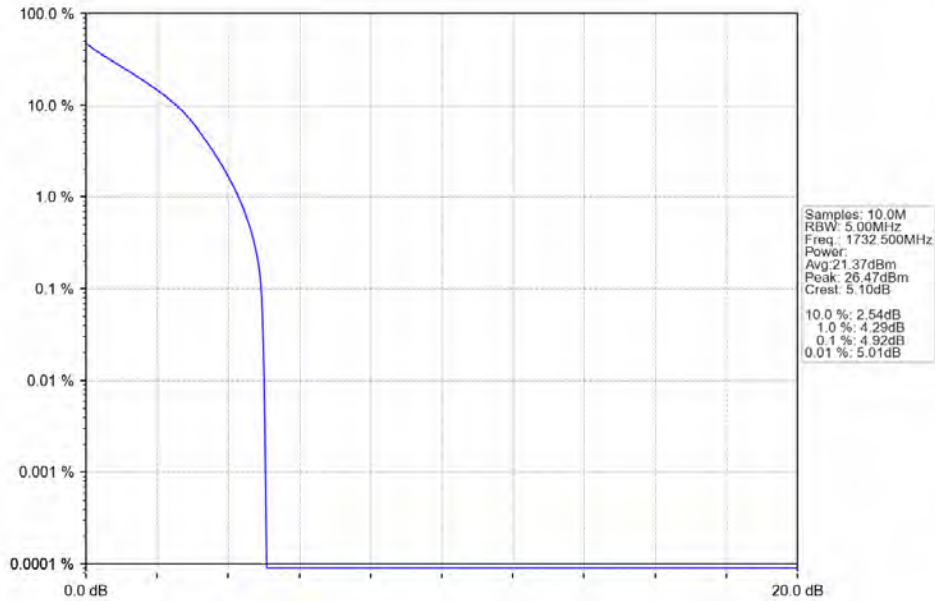
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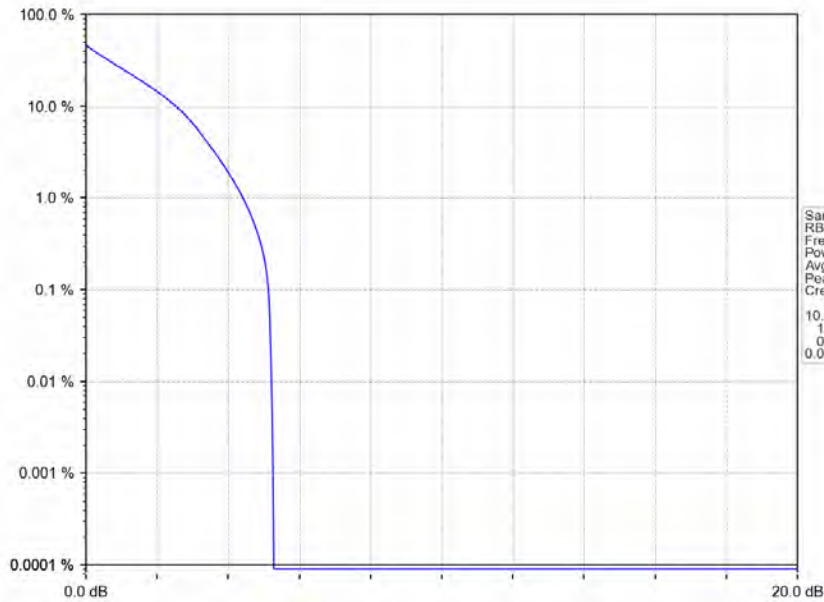
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 1753.500MHz
Power:
Avg: 21.54dBm
Peak: 26.84dBm
Crest: 5.30dB
10.0%: 2.53dB
1.0%: 4.41dB
0.1%: 5.13dB
0.01%: 5.22dB

Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV



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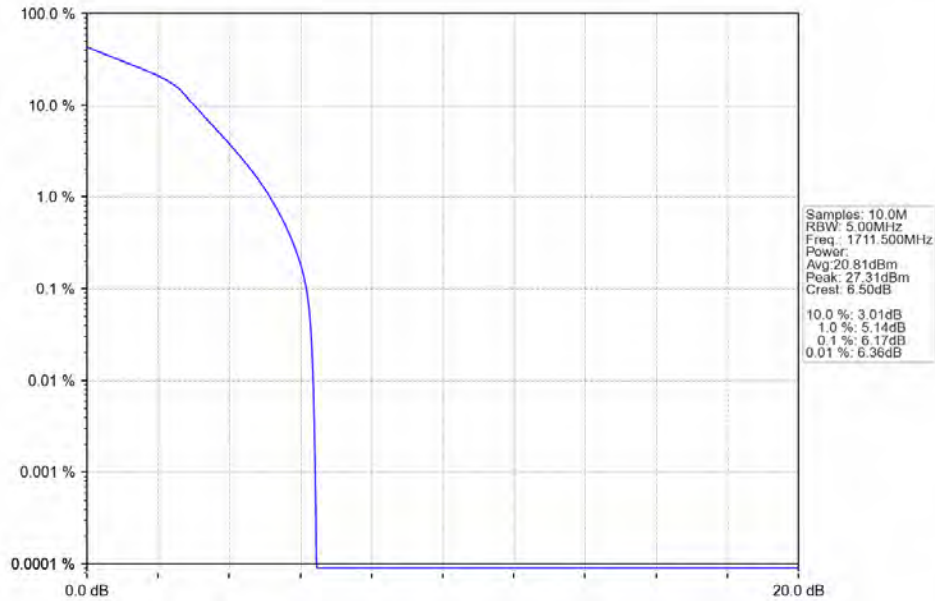
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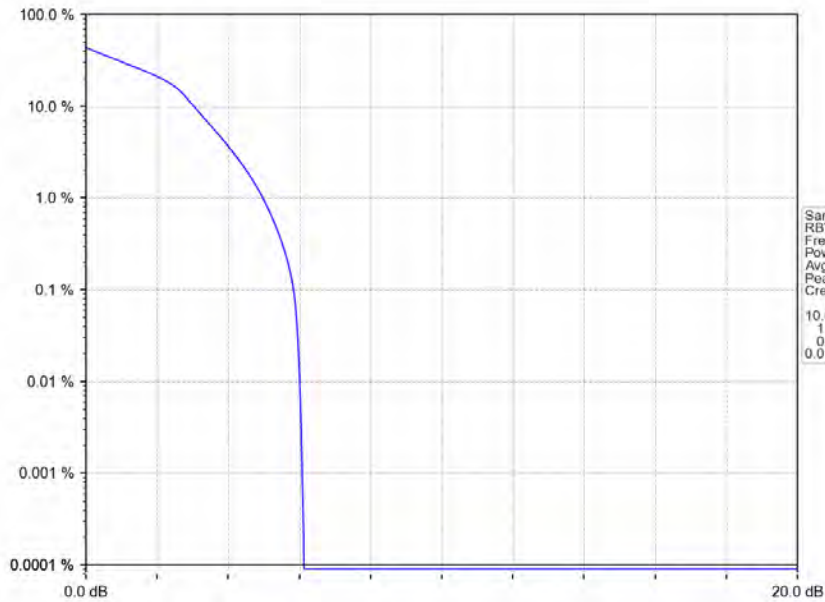
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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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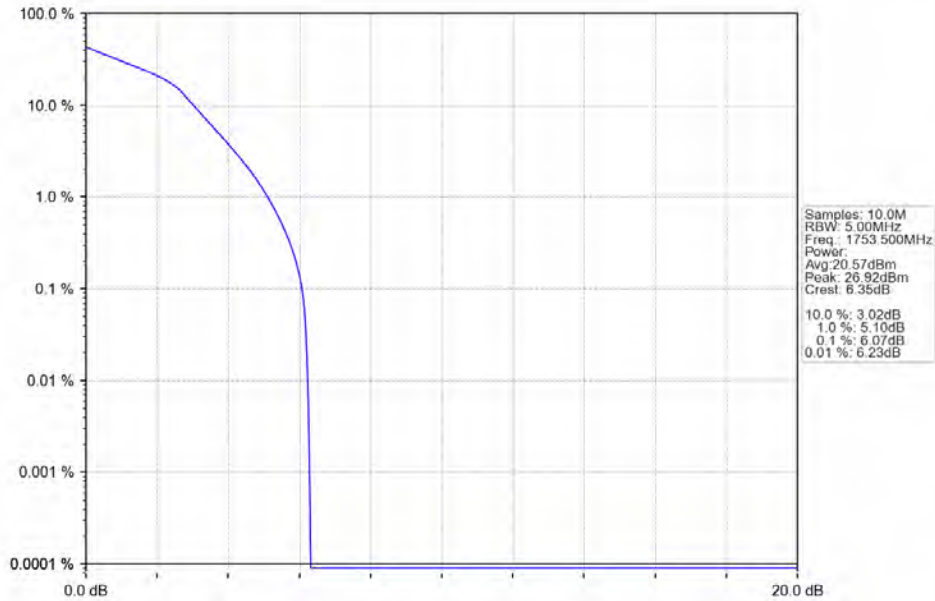
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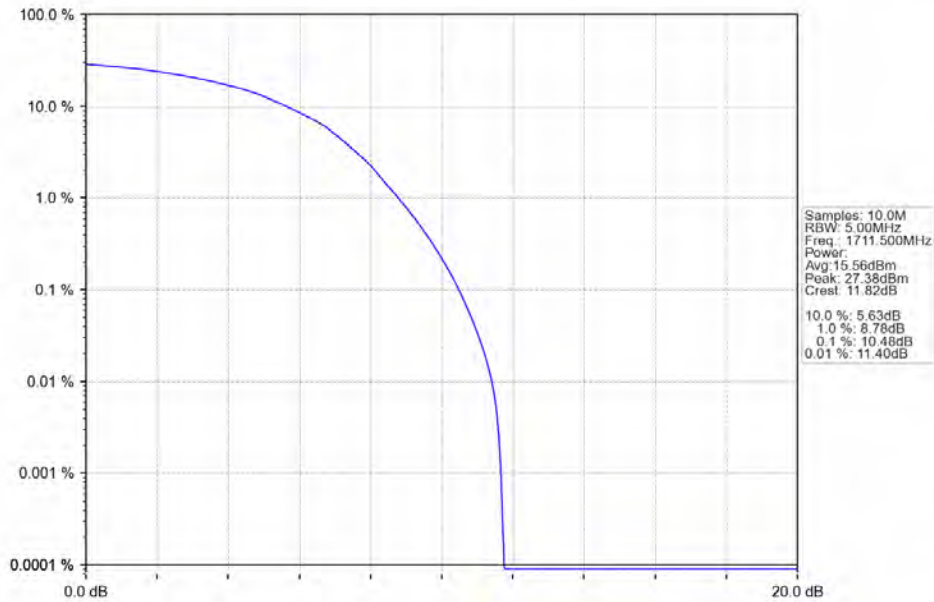
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Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV



Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV



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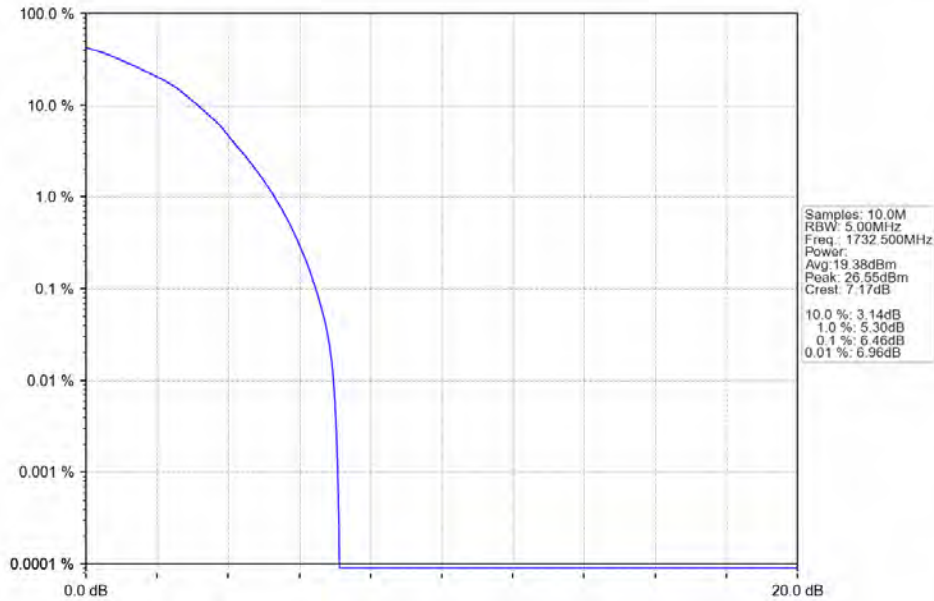
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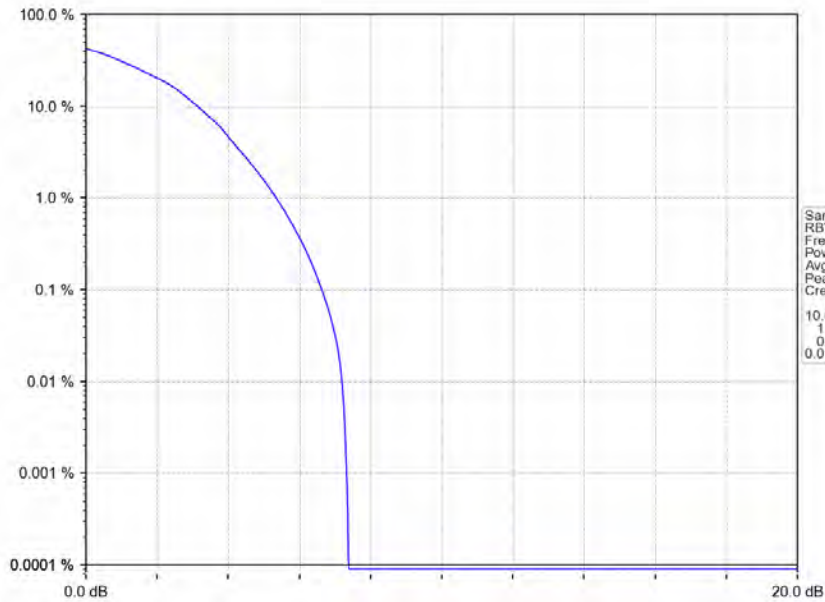
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Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV



Band4_3MHz_256QAM_LCH_1711.5MHz_RB_15_0_NTNV



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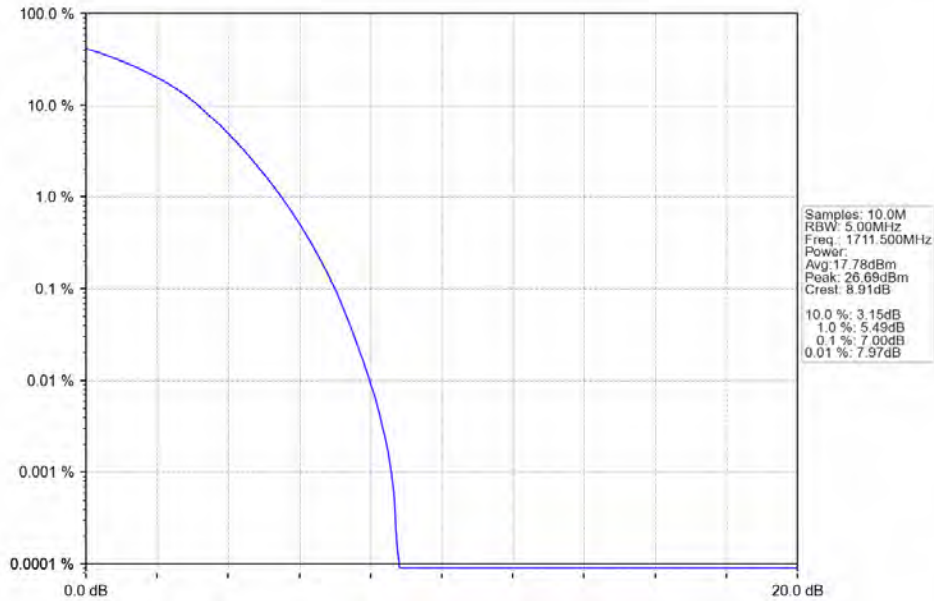
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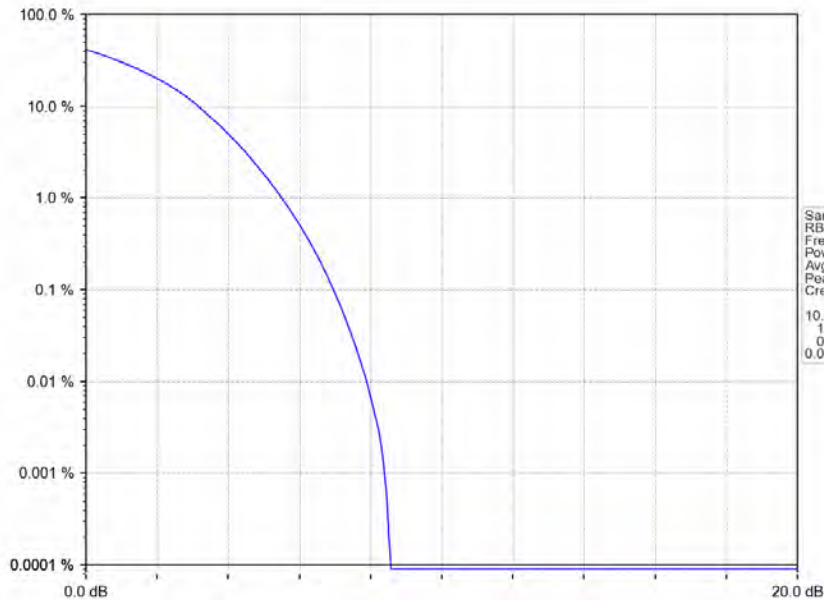
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Band4_3MHz_256QAM_MCH_1732.5MHz_RB_15_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 1732.500MHz
Power:
Avg: 17.37dBm
Peak: 26.01dBm
Crest: 8.64dB

Band4_3MHz_256QAM_HCH_1753.5MHz_RB_15_0_NTNV



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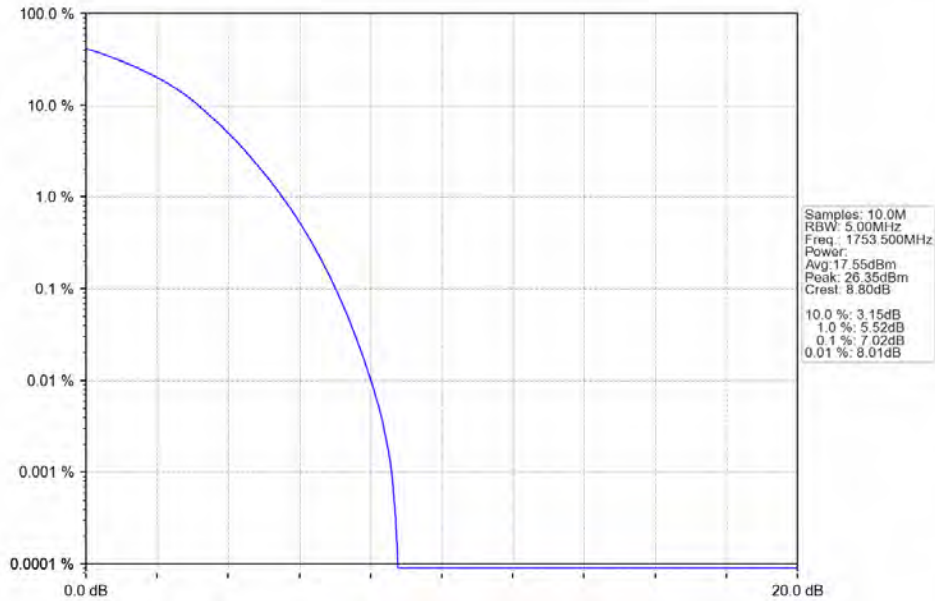
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5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.39	<=13	Pass
	1732.5	25	0	5.18	<=13	Pass
	1752.5	25	0	5.34	<=13	Pass
16QAM	1712.5	25	0	6.27	<=13	Pass
	1732.5	25	0	6.03	<=13	Pass
	1752.5	25	0	6.18	<=13	Pass
64QAM	1712.5	25	0	10.74	<=13	Pass
	1732.5	25	0	10.47	<=13	Pass
	1752.5	25	0	10.70	<=13	Pass
256QAM	1712.5	25	0	6.96	<=13	Pass
	1732.5	25	0	6.94	<=13	Pass
	1752.5	25	0	6.95	<=13	Pass



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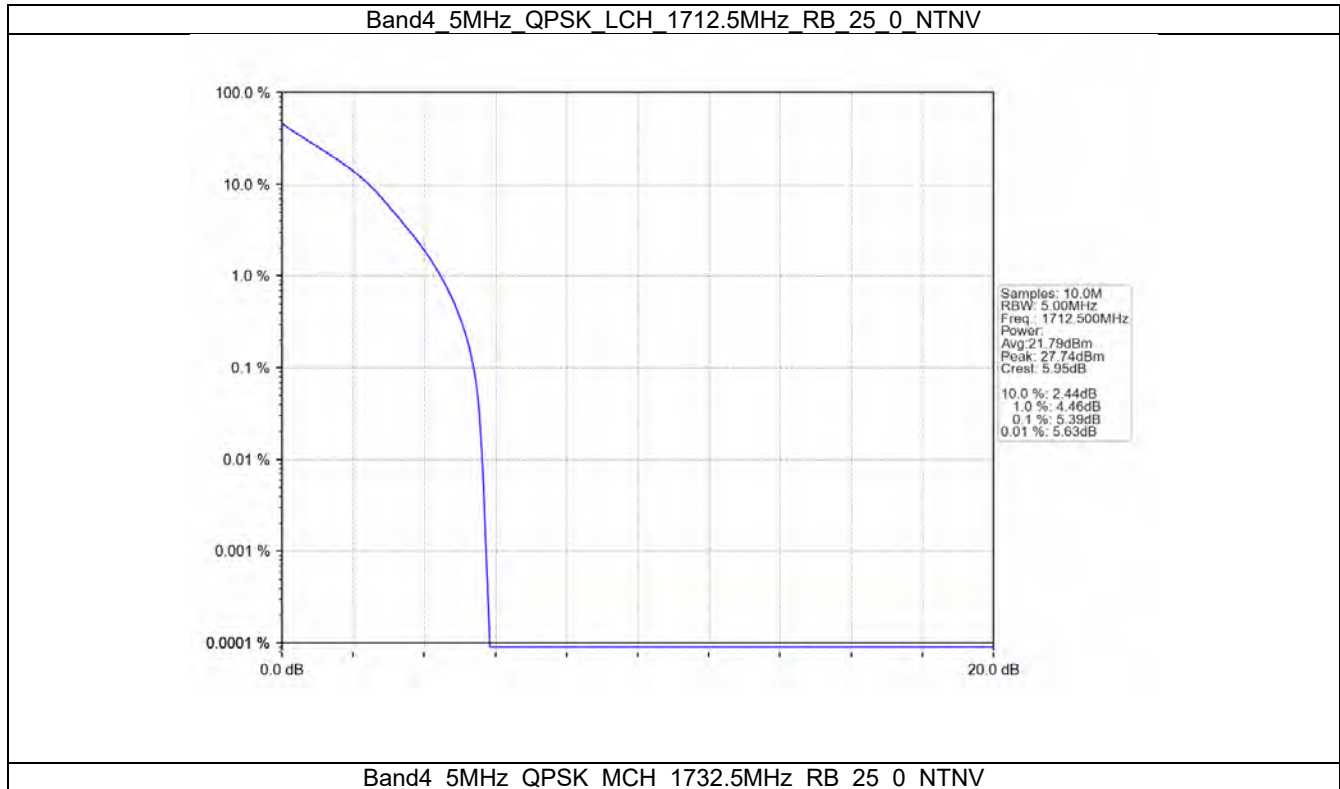
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5.3.2 Test Graph



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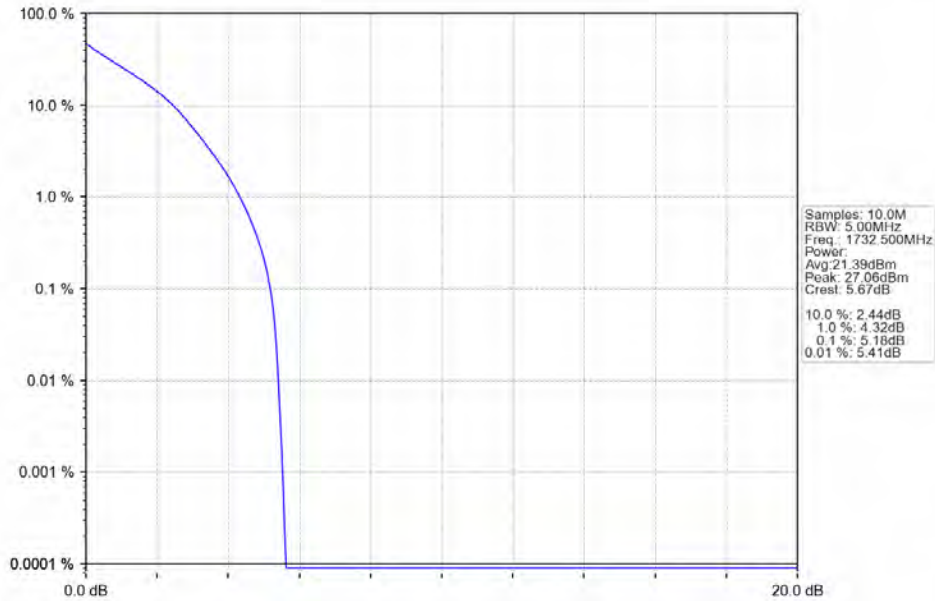
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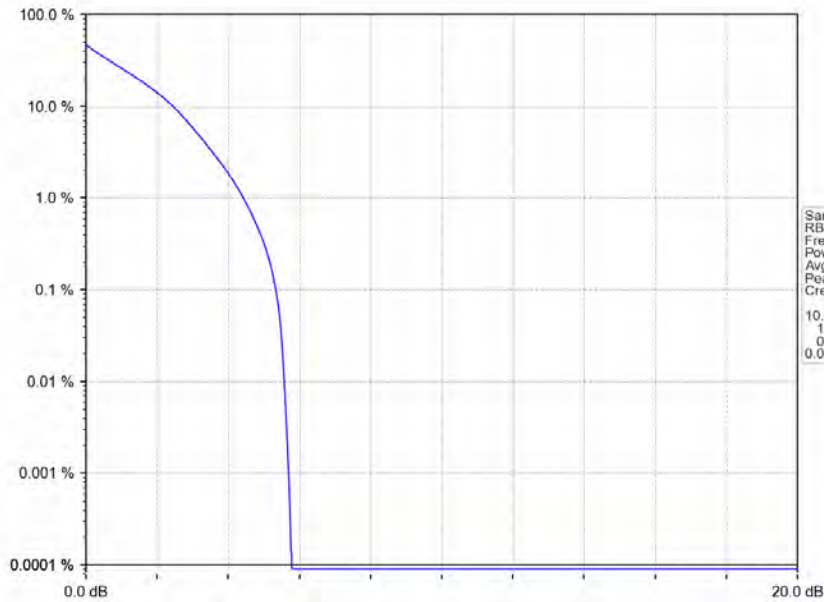
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 1752.500MHz
Power:
Avg: 21.65dBm
Peak: 27.59dBm
Crest: 5.94dB
10.0 %: 2.44dB
1.0 %: 4.43dB
0.1 %: 5.34dB
0.01 %: 5.57dB

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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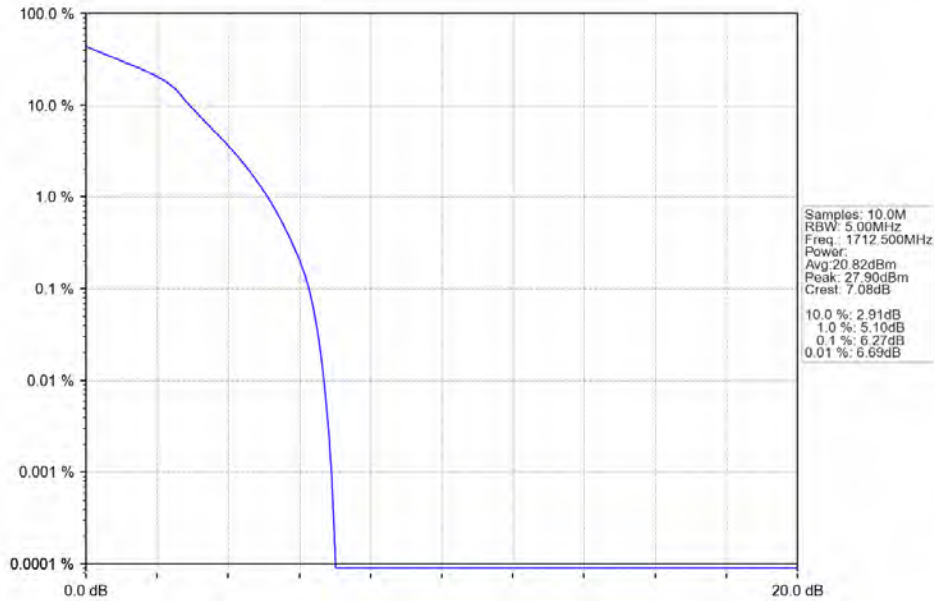
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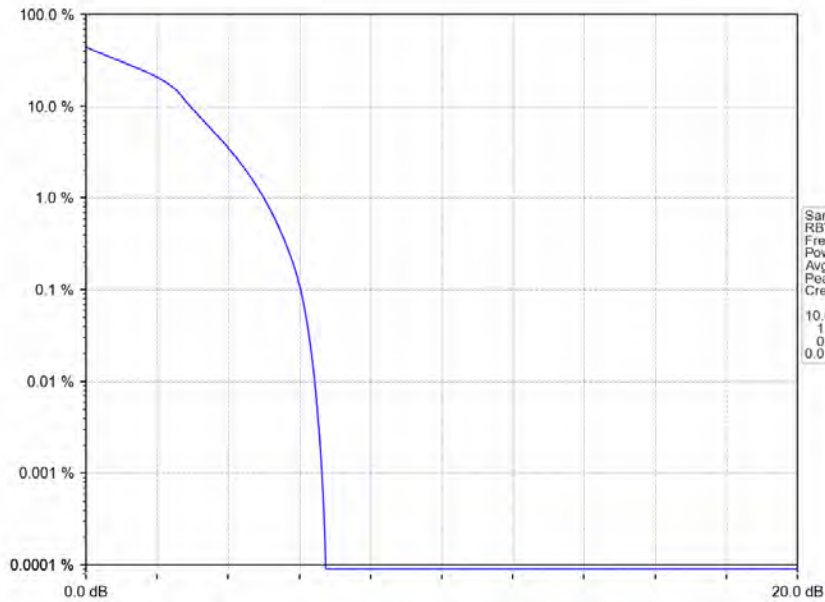
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Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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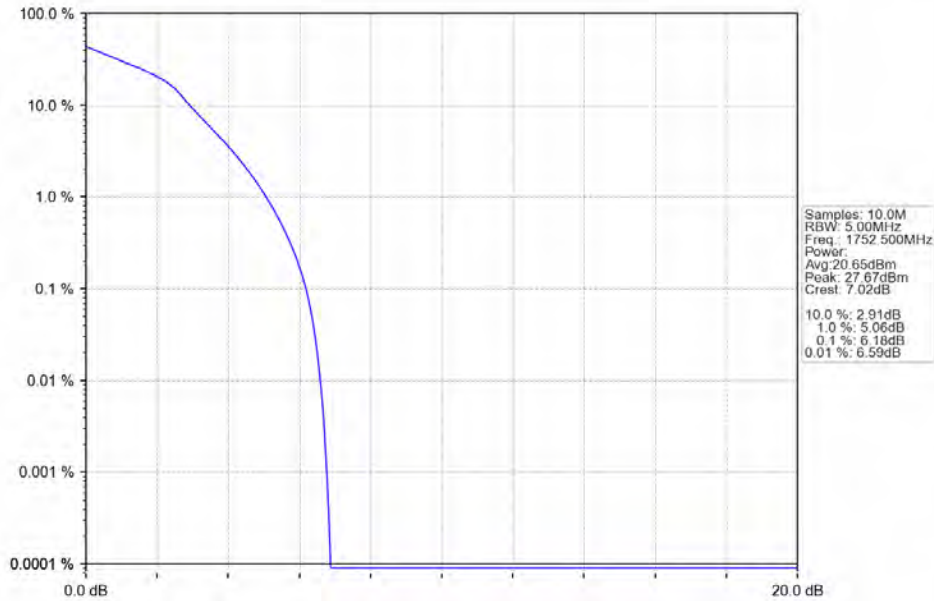
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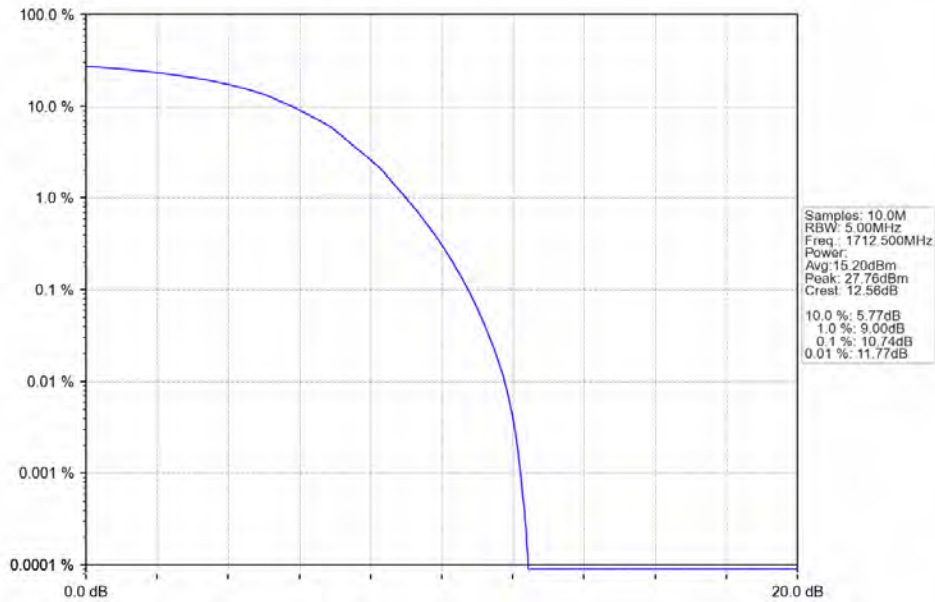
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Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV



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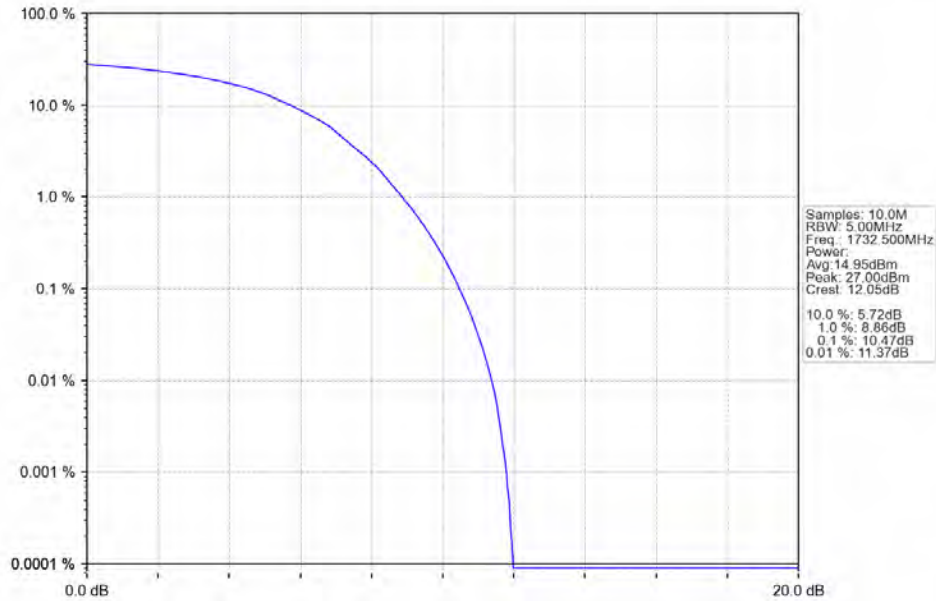
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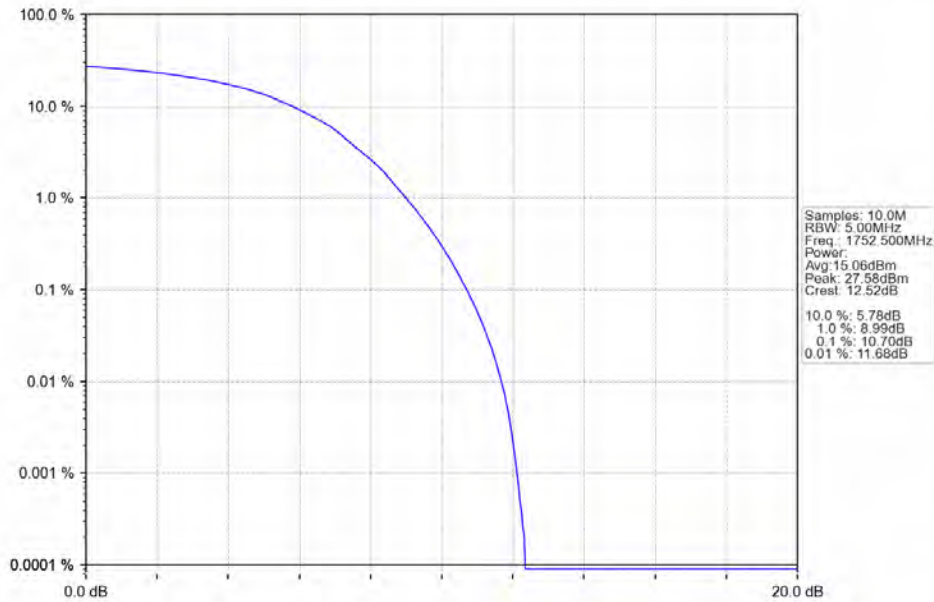
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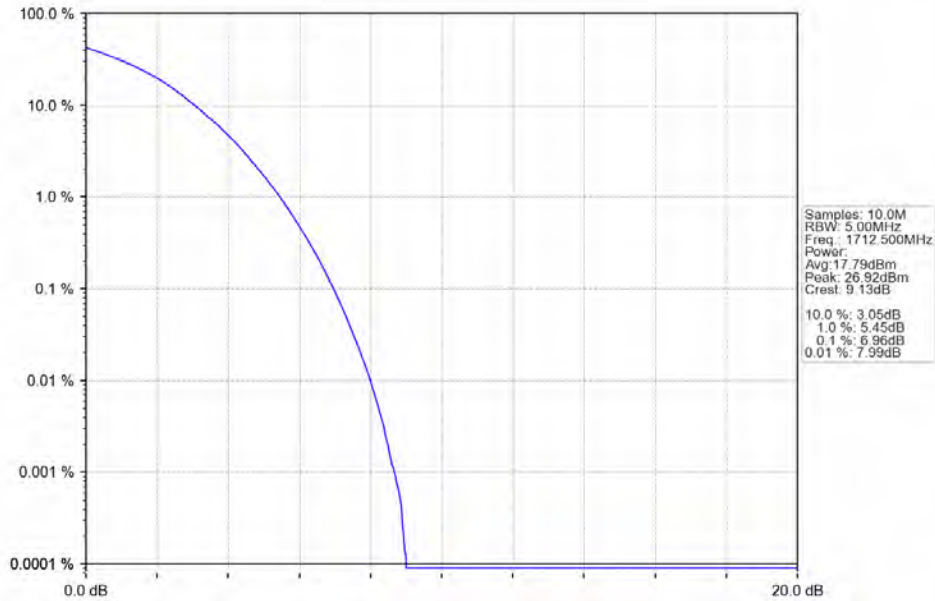
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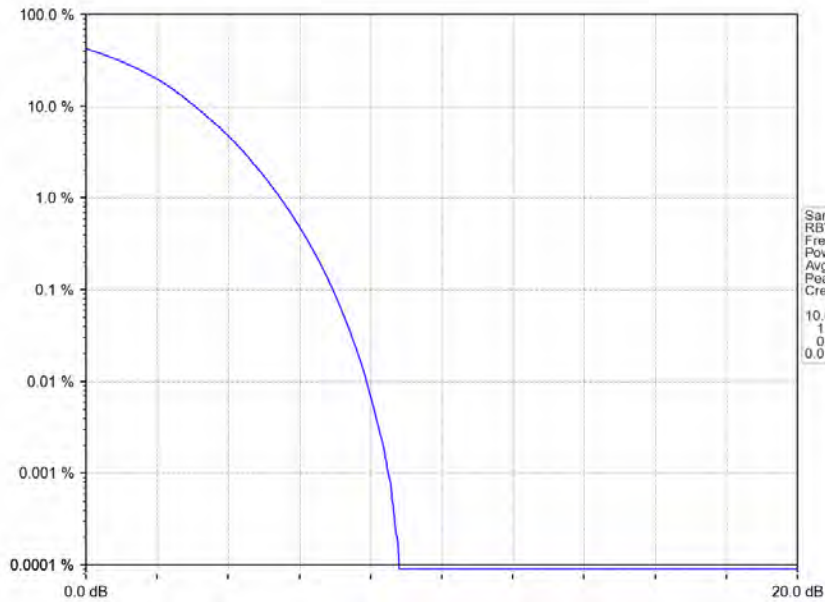
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Band4_5MHz_256QAM_MCH_1732.5MHz_RB_25_0_NTNV



Band4_5MHz_256QAM_HCH_1752.5MHz_RB_25_0_NTNV



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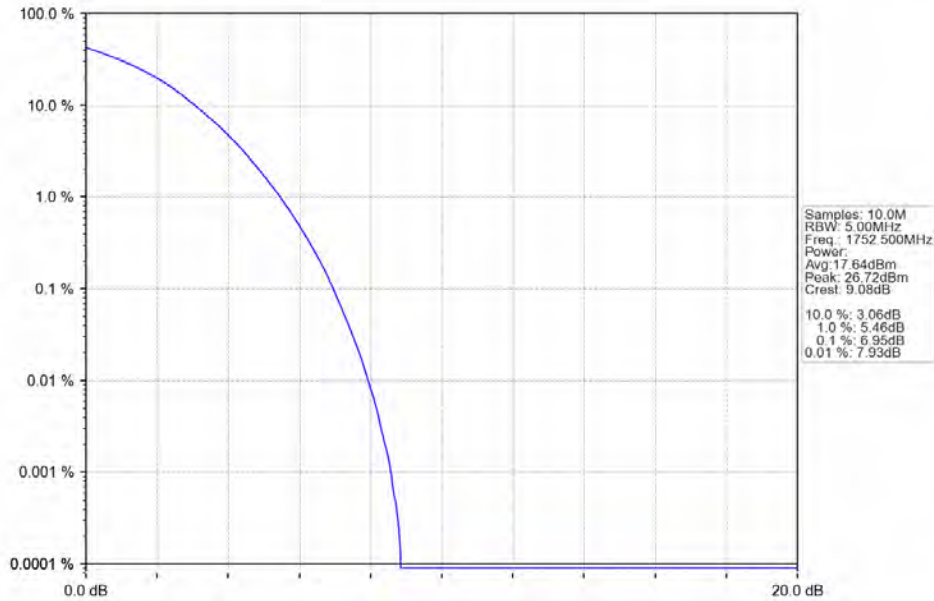
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5.4 B4_10MHz

5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.46	<=13	Pass
	1732.5	50	0	5.25	<=13	Pass
	1750	50	0	5.40	<=13	Pass
16QAM	1715	50	0	6.26	<=13	Pass
	1732.5	50	0	6.08	<=13	Pass
	1750	50	0	6.27	<=13	Pass
64QAM	1715	50	0	6.65	<=13	Pass
	1732.5	50	0	12.54	<=13	Pass
	1750	50	0	12.59	<=13	Pass
256QAM	1715	50	0	6.92	<=13	Pass
	1732.5	50	0	6.91	<=13	Pass
	1750	50	0	6.93	<=13	Pass



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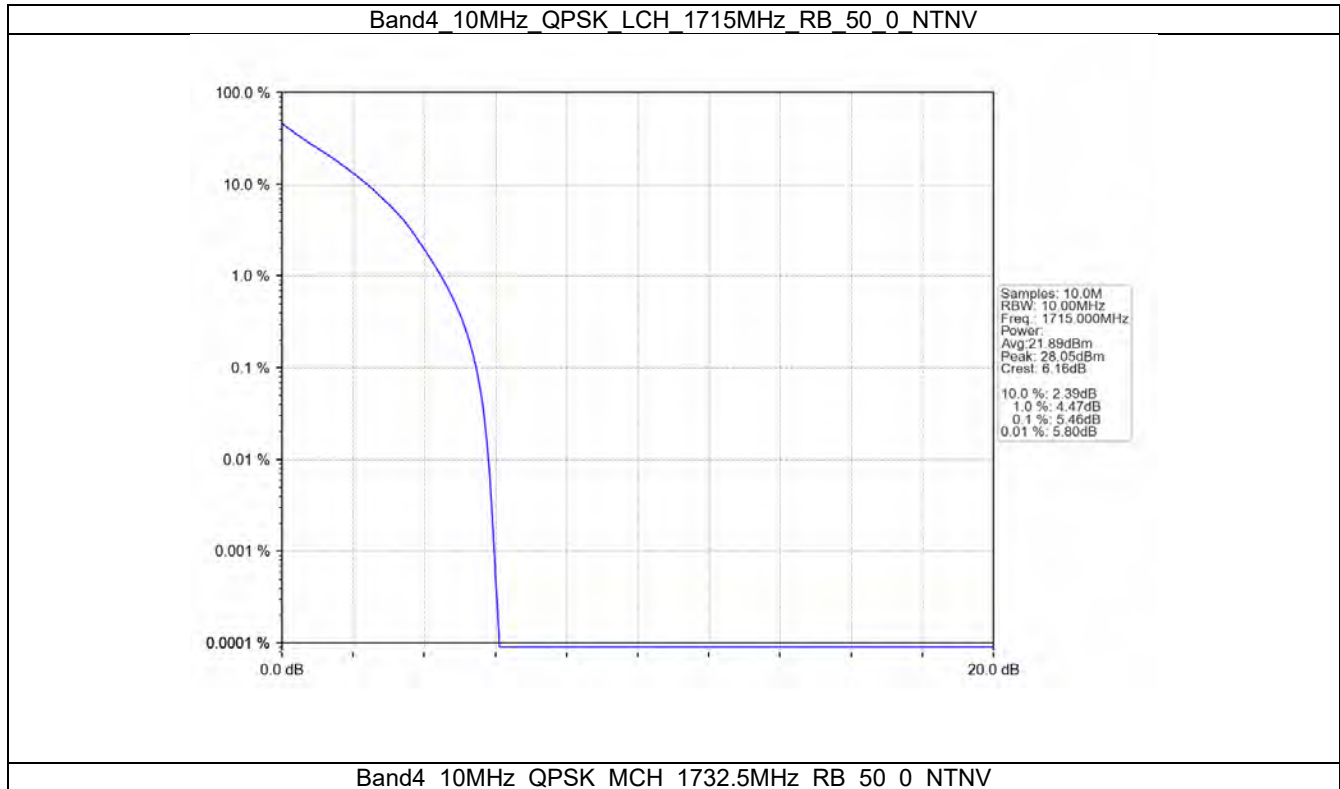
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5.4.2 Test Graph



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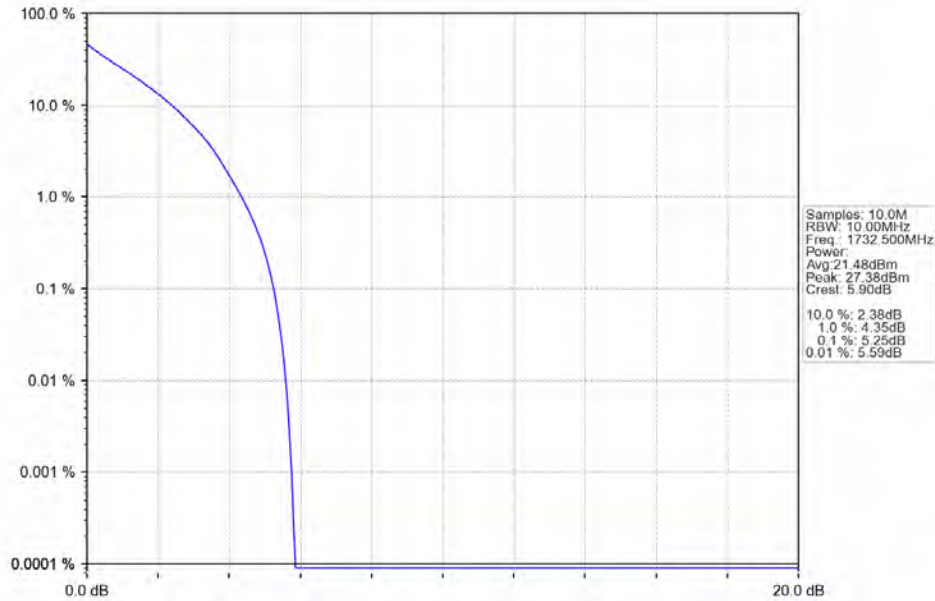
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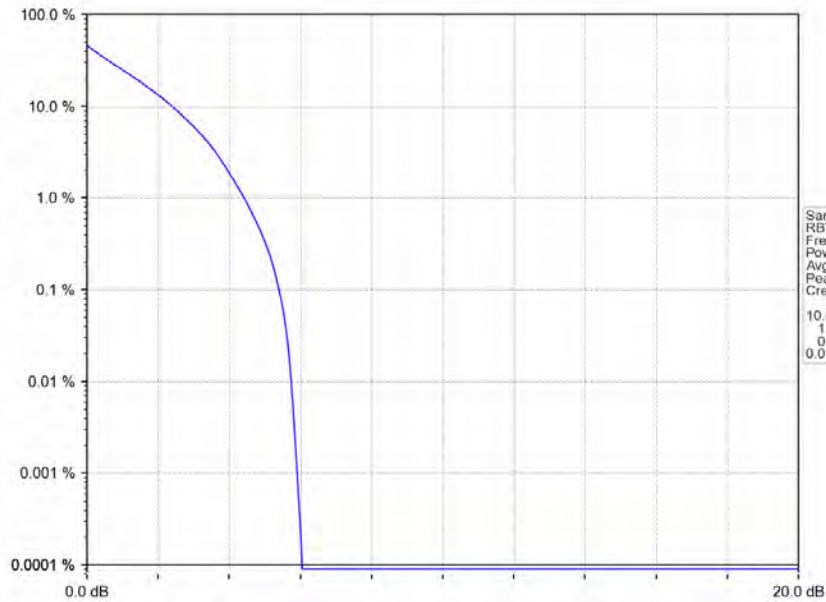
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Band4 10MHz QPSK HCH 1750MHz RB 50 0 NTNV



Band4 10MHz 16QAM LCH 1715MHz RB 50 0 NTNV



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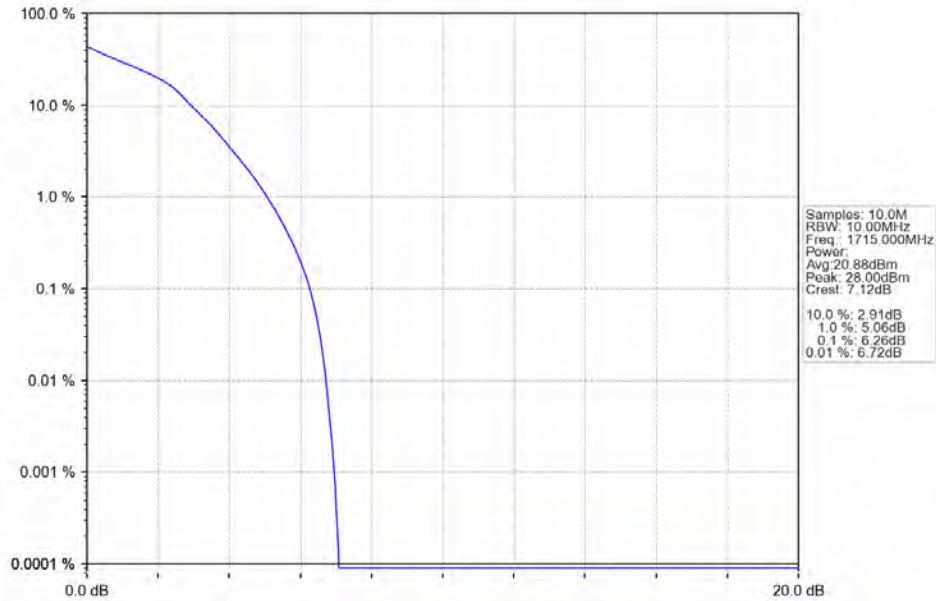
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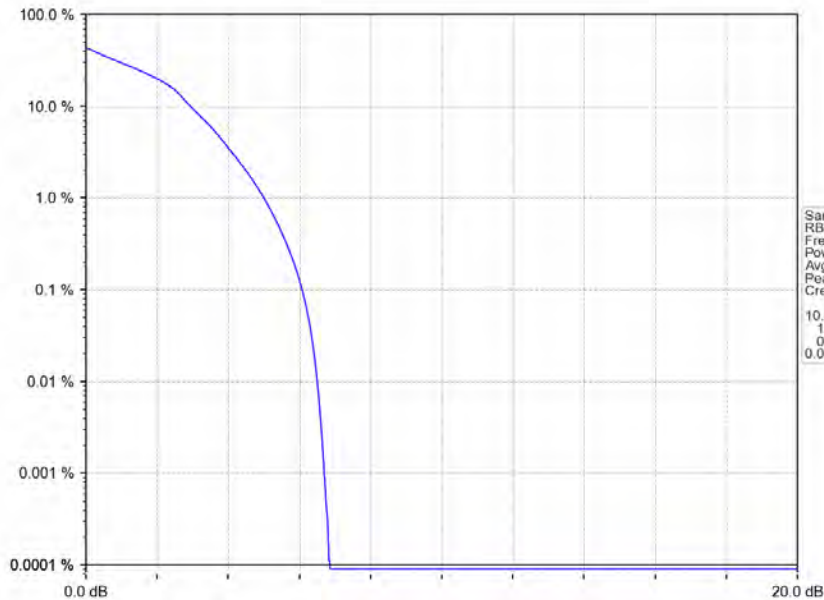
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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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