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Appendix B.16

LTE Band 41



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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
Band41	5MHz	QPSK	39675	1RB#0	24.18	23.64	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#12	24.26	23.72	33.00	PASS
Band41	5MHz	QPSK	39675	1RB#24	24.08	23.54	33.00	PASS
Band41	5MHz	QPSK	39675	25RB#0	22.96	22.42	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#0	24.49	23.95	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#12	24.42	23.88	33.00	PASS
Band41	5MHz	QPSK	40620	1RB#24	24.3	23.76	33.00	PASS
Band41	5MHz	QPSK	40620	25RB#0	23.35	22.81	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#0	24.42	23.88	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#12	24.39	23.85	33.00	PASS
Band41	5MHz	QPSK	41565	1RB#24	24.28	23.74	33.00	PASS
Band41	5MHz	QPSK	41565	25RB#0	23.12	22.58	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#0	22.94	22.4	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#12	23.01	22.47	33.00	PASS
Band41	5MHz	16QAM	39675	1RB#24	23.17	22.63	33.00	PASS
Band41	5MHz	16QAM	39675	25RB#0	21.95	21.41	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#0	23.18	22.64	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#12	23.17	22.63	33.00	PASS
Band41	5MHz	16QAM	40620	1RB#24	23.14	22.6	33.00	PASS
Band41	5MHz	16QAM	40620	25RB#0	22.02	21.48	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#0	23.17	22.63	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#12	23.18	22.64	33.00	PASS
Band41	5MHz	16QAM	41565	1RB#24	23.19	22.65	33.00	PASS
Band41	5MHz	16QAM	41565	25RB#0	22.17	21.63	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#0	21.77	21.23	33.00	PASS



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Band41	5MHz	64QAM	39675	1RB#12	21.74	21.2	33.00	PASS
Band41	5MHz	64QAM	39675	1RB#24	22	21.46	33.00	PASS
Band41	5MHz	64QAM	39675	25RB#0	21.11	20.57	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#0	21.73	21.19	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#12	21.89	21.35	33.00	PASS
Band41	5MHz	64QAM	40620	1RB#24	21.75	21.21	33.00	PASS
Band41	5MHz	64QAM	40620	25RB#0	21.08	20.54	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#0	21.83	21.29	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#12	21.94	21.4	33.00	PASS
Band41	5MHz	64QAM	41565	1RB#24	21.66	21.12	33.00	PASS
Band41	5MHz	64QAM	41565	25RB#0	21.29	20.75	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#0	24.03	23.49	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#24	24.29	23.75	33.00	PASS
Band41	10MHz	QPSK	39700	1RB#49	24.1	23.56	33.00	PASS
Band41	10MHz	QPSK	39700	50RB#0	23.16	22.62	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#0	24.32	23.78	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#24	24.53	23.99	33.00	PASS
Band41	10MHz	QPSK	40620	1RB#49	24.23	23.69	33.00	PASS
Band41	10MHz	QPSK	40620	50RB#0	23.08	22.54	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#0	24.16	23.62	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#24	24.22	23.68	33.00	PASS
Band41	10MHz	QPSK	41540	1RB#49	24.13	23.59	33.00	PASS
Band41	10MHz	QPSK	41540	50RB#0	23.25	22.71	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#0	22.86	22.32	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#24	22.87	22.33	33.00	PASS
Band41	10MHz	16QAM	39700	1RB#49	23.03	22.49	33.00	PASS
Band41	10MHz	16QAM	39700	50RB#0	21.95	21.41	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#0	23.08	22.54	33.00	PASS
Band41	10MHz	16QAM	40620	1RB#24	23.19	22.65	33.00	PASS



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Band41	10MHz	16QAM	40620	1RB#49	23.21	22.67	33.00	PASS
Band41	10MHz	16QAM	40620	50RB#0	22.02	21.48	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#0	23.11	22.57	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#24	23.23	22.69	33.00	PASS
Band41	10MHz	16QAM	41540	1RB#49	23.35	22.81	33.00	PASS
Band41	10MHz	16QAM	41540	50RB#0	22.19	21.65	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#0	21.62	21.08	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#24	21.48	20.94	33.00	PASS
Band41	10MHz	64QAM	39700	1RB#49	21.52	20.98	33.00	PASS
Band41	10MHz	64QAM	39700	50RB#0	21.16	20.62	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#0	21.63	21.09	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#24	21.73	21.19	33.00	PASS
Band41	10MHz	64QAM	40620	1RB#49	21.73	21.19	33.00	PASS
Band41	10MHz	64QAM	40620	50RB#0	21.2	20.66	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#0	21.82	21.28	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#24	21.76	21.22	33.00	PASS
Band41	10MHz	64QAM	41540	1RB#49	21.85	21.31	33.00	PASS
Band41	10MHz	64QAM	41540	50RB#0	21.07	20.53	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#0	24.01	23.47	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#38	24.25	23.71	33.00	PASS
Band41	15MHz	QPSK	39725	1RB#74	24.04	23.5	33.00	PASS
Band41	15MHz	QPSK	39725	75RB#0	22.93	22.39	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#0	24.01	23.47	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#38	24.41	23.87	33.00	PASS
Band41	15MHz	QPSK	40620	1RB#74	24.32	23.78	33.00	PASS
Band41	15MHz	QPSK	40620	75RB#0	23.04	22.5	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#0	24.36	23.82	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#38	24.41	23.87	33.00	PASS
Band41	15MHz	QPSK	41515	1RB#74	24.3	23.76	33.00	PASS



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Band41	15MHz	QPSK	41515	75RB#0	23.09	22.55	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#0	22.98	22.44	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#38	23.03	22.49	33.00	PASS
Band41	15MHz	16QAM	39725	1RB#74	22.94	22.4	33.00	PASS
Band41	15MHz	16QAM	39725	75RB#0	21.81	21.27	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#0	23.02	22.48	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#38	23.26	22.72	33.00	PASS
Band41	15MHz	16QAM	40620	1RB#74	23.33	22.79	33.00	PASS
Band41	15MHz	16QAM	40620	75RB#0	22.27	21.73	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#0	23.21	22.67	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#38	23.22	22.68	33.00	PASS
Band41	15MHz	16QAM	41515	1RB#74	23.29	22.75	33.00	PASS
Band41	15MHz	16QAM	41515	75RB#0	21.99	21.45	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#0	21.58	21.04	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#38	21.88	21.34	33.00	PASS
Band41	15MHz	64QAM	39725	1RB#74	21.61	21.07	33.00	PASS
Band41	15MHz	64QAM	39725	75RB#0	20.95	20.41	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#0	21.56	21.02	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#38	21.83	21.29	33.00	PASS
Band41	15MHz	64QAM	40620	1RB#74	21.79	21.25	33.00	PASS
Band41	15MHz	64QAM	40620	75RB#0	21.15	20.61	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#0	21.82	21.28	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#38	21.81	21.27	33.00	PASS
Band41	15MHz	64QAM	41515	1RB#74	21.69	21.15	33.00	PASS
Band41	15MHz	64QAM	41515	75RB#0	21.03	20.49	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#0	24.1	23.56	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#49	24.12	23.58	33.00	PASS
Band41	20MHz	QPSK	39750	1RB#99	24.22	23.68	33.00	PASS
Band41	20MHz	QPSK	39750	100RB#0	23.06	22.52	33.00	PASS



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Band41	20MHz	QPSK	40620	1RB#49	24.16	23.62	33.00	PASS
Band41	20MHz	QPSK	40620	1RB#99	24.14	23.6	33.00	PASS
Band41	20MHz	QPSK	40620	100RB#0	22.95	22.41	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#0	24.28	23.74	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#49	24.14	23.6	33.00	PASS
Band41	20MHz	QPSK	41490	1RB#99	23.88	23.34	33.00	PASS
Band41	20MHz	QPSK	41490	100RB#0	22.98	22.44	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#0	22.62	22.08	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#49	23.19	22.65	33.00	PASS
Band41	20MHz	16QAM	39750	1RB#99	22.75	22.21	33.00	PASS
Band41	20MHz	16QAM	39750	100RB#0	21.75	21.21	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#0	23.12	22.58	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#49	23.11	22.57	33.00	PASS
Band41	20MHz	16QAM	40620	1RB#99	23.13	22.59	33.00	PASS
Band41	20MHz	16QAM	40620	100RB#0	22.14	21.6	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#0	22.76	22.22	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#49	22.94	22.4	33.00	PASS
Band41	20MHz	16QAM	41490	1RB#99	22.97	22.43	33.00	PASS
Band41	20MHz	16QAM	41490	100RB#0	22.21	21.67	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#0	21.25	20.71	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#49	21.85	21.31	33.00	PASS
Band41	20MHz	64QAM	39750	1RB#99	21.36	20.82	33.00	PASS
Band41	20MHz	64QAM	39750	100RB#0	20.74	20.2	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#0	21.21	20.67	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#49	21.94	21.4	33.00	PASS
Band41	20MHz	64QAM	40620	1RB#99	21.58	21.04	33.00	PASS
Band41	20MHz	64QAM	40620	100RB#0	20.96	20.42	33.00	PASS
Band41	20MHz	64QAM	41490	1RB#0	21.4	20.86	33.00	PASS



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Band41	20MHz	64QAM	41490	1RB#99	21.99	21.45	33.00	PASS
Band41	20MHz	64QAM	41490	100RB#0	21.27	20.73	33.00	PASS



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2. Frequency Stability

2.1 B41_5MHz

2.1.1 Test Result

Band: 41 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2498.5	25	0	20	3.5	-0.356	-0.0001	/	Pass
					3.87	-2.332	-0.0009	/	Pass
					4.45	0.363	0.0001	/	Pass
				-30	3.87	7.918	0.0032	/	Pass
				-20	3.87	1.776	0.0007	/	Pass
				-10	3.87	1.010	0.0004	/	Pass
				0	3.87	-3.628	-0.0015	/	Pass
				10	3.87	-0.789	-0.0003	/	Pass
				30	3.87	-1.823	-0.0007	/	Pass
				40	3.87	2.570	0.0010	/	Pass
				50	3.87	-4.250	-0.0017	/	Pass
	2593	25	0	20	3.5	0.085	0.0000	/	Pass
					3.87	-5.222	-0.0020	/	Pass
					4.45	-4.568	-0.0018	/	Pass
				-30	3.87	-5.583	-0.0022	/	Pass
				-20	3.87	1.304	0.0005	/	Pass
				-10	3.87	-3.297	-0.0013	/	Pass
				0	3.87	-6.585	-0.0025	/	Pass
				10	3.87	-3.308	-0.0013	/	Pass
				30	3.87	1.377	0.0005	/	Pass
				40	3.87	-3.179	-0.0012	/	Pass
				50	3.87	-0.404	-0.0002	/	Pass
	2687.5	25	0	20	3.5	-4.296	-0.0016	/	Pass
					3.87	0.874	0.0003	/	Pass
					4.45	-5.563	-0.0021	/	Pass
				-30	3.87	2.279	0.0008	/	Pass
				-20	3.87	-3.158	-0.0012	/	Pass
				-10	3.87	-4.491	-0.0017	/	Pass
				0	3.87	-3.662	-0.0014	/	Pass
				10	3.87	-3.732	-0.0014	/	Pass
				30	3.87	-9.154	-0.0034	/	Pass
				40	3.87	-7.375	-0.0027	/	Pass
				50	3.87	0.606	0.0002	/	Pass
16QAM	2498.5	25	0	20	3.5	3.269	0.0013	/	Pass
					3.87	0.793	0.0003	/	Pass
					4.45	-2.463	-0.0010	/	Pass
				-30	3.87	-3.402	-0.0014	/	Pass
				-20	3.87	1.135	0.0005	/	Pass
				-10	3.87	0.713	0.0003	/	Pass



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64QAM	2593	25	0	0	3.87	3.175	0.0013	/	Pass
				10	3.87	5.298	0.0021	/	Pass
				30	3.87	-1.123	-0.0004	/	Pass
				40	3.87	3.320	0.0013	/	Pass
				50	3.87	-1.415	-0.0006	/	Pass
				20	3.5	-3.487	-0.0013	/	Pass
					3.87	0.003	0.0000	/	Pass
				20	4.45	1.519	0.0006	/	Pass
					3.87	-20.753	-0.0080	/	Pass
				-30	3.87	4.288	0.0017	/	Pass
				-20	3.87	-6.274	-0.0024	/	Pass
				-10	3.87	1.563	0.0006	/	Pass
				0	3.87	-3.418	-0.0013	/	Pass
				10	3.87	1.799	0.0007	/	Pass
				30	3.87	-4.335	-0.0017	/	Pass
				40	3.87	2.513	0.0010	/	Pass
				50	3.87	-3.389	-0.0013	/	Pass
	2687.5	25	0	20	3.87	-2.014	-0.0007	/	Pass
					4.45	-1.311	-0.0005	/	Pass
				-30	3.87	-7.706	-0.0029	/	Pass
				-20	3.87	-6.464	-0.0024	/	Pass
				-10	3.87	-7.919	-0.0029	/	Pass
				0	3.87	-4.328	-0.0016	/	Pass
				10	3.87	-4.448	-0.0017	/	Pass
				30	3.87	-2.720	-0.0010	/	Pass
				40	3.87	-2.249	-0.0008	/	Pass
				50	3.87	-2.993	-0.0011	/	Pass
	2498.5	25	0	20	3.5	2.551	0.0010	/	Pass
					3.87	-3.891	-0.0016	/	Pass
				20	4.45	-1.210	-0.0005	/	Pass
					3.87	-2.031	-0.0008	/	Pass
				-30	3.87	-0.263	-0.0001	/	Pass
				-20	3.87	0.915	0.0004	/	Pass
				-10	3.87	4.571	0.0018	/	Pass
				0	3.87	0.273	0.0001	/	Pass
				10	3.87	-1.552	-0.0006	/	Pass
				30	3.87	-0.326	-0.0001	/	Pass
				40	3.87	1.962	0.0008	/	Pass
				50	3.87	-3.021	-0.0012	/	Pass
	2593	25	0	20	3.87	-1.067	-0.0004	/	Pass
					4.45	2.014	0.0008	/	Pass
				-30	3.87	-4.308	-0.0017	/	Pass
				-20	3.87	6.177	0.0024	/	Pass
				-10	3.87	-1.755	-0.0007	/	Pass
				0	3.87	2.980	0.0011	/	Pass
				10	3.87	-1.571	-0.0006	/	Pass
				30	3.87	-0.080	0.0000	/	Pass
				40	3.87	-2.979	-0.0011	/	Pass
				50	3.87	3.742	0.0014	/	Pass



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	2687.5	25	0	20	3.5	-2.702	-0.0010	/	Pass
					3.87	-2.263	-0.0008	/	Pass
					4.45	-3.946	-0.0015	/	Pass
				-30	3.87	-3.483	-0.0013	/	Pass
				-20	3.87	-3.882	-0.0014	/	Pass
				-10	3.87	-3.338	-0.0012	/	Pass
				0	3.87	-5.912	-0.0022	/	Pass
				10	3.87	-1.878	-0.0007	/	Pass
				30	3.87	-1.923	-0.0007	/	Pass
				40	3.87	-3.102	-0.0012	/	Pass
				50	3.87	-2.436	-0.0009	/	Pass



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2.2 B41_10MHz

2.2.1 Test Result

Band: 41 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2501	50	0	20	3.5	-3.134	-0.0013	/	Pass
					3.87	-1.617	-0.0006	/	Pass
					4.45	3.157	0.0013	/	Pass
				-30	3.87	-6.053	-0.0024	/	Pass
				-20	3.87	-2.808	-0.0011	/	Pass
				-10	3.87	-4.218	-0.0017	/	Pass
				0	3.87	-0.577	-0.0002	/	Pass
				10	3.87	-2.445	-0.0010	/	Pass
				30	3.87	-4.104	-0.0016	/	Pass
				40	3.87	0.649	0.0003	/	Pass
				50	3.87	-0.138	-0.0001	/	Pass
	2593	50	0	20	3.5	-4.536	-0.0017	/	Pass
					3.87	-5.875	-0.0023	/	Pass
					4.45	-4.584	-0.0018	/	Pass
				-30	3.87	-4.022	-0.0016	/	Pass
				-20	3.87	-7.804	-0.0030	/	Pass
				-10	3.87	0.141	0.0001	/	Pass
				0	3.87	-2.649	-0.0010	/	Pass
				10	3.87	-2.700	-0.0010	/	Pass
				30	3.87	0.772	0.0003	/	Pass
				40	3.87	2.625	0.0010	/	Pass
				50	3.87	1.268	0.0005	/	Pass
	2685	50	0	20	3.5	-0.606	-0.0002	/	Pass
					3.87	-0.015	0.0000	/	Pass
					4.45	-4.190	-0.0016	/	Pass
				-30	3.87	-1.608	-0.0006	/	Pass
				-20	3.87	-5.820	-0.0022	/	Pass
				-10	3.87	-2.512	-0.0009	/	Pass
				0	3.87	0.637	0.0002	/	Pass
				10	3.87	0.475	0.0002	/	Pass
				30	3.87	-5.477	-0.0020	/	Pass
				40	3.87	-4.634	-0.0017	/	Pass
				50	3.87	-1.835	-0.0007	/	Pass
16QAM	2501	50	0	20	3.5	-1.775	-0.0007	/	Pass
					3.87	-1.513	-0.0006	/	Pass
					4.45	-0.405	-0.0002	/	Pass
				-30	3.87	0.503	0.0002	/	Pass
				-20	3.87	1.923	0.0008	/	Pass
				-10	3.87	-2.652	-0.0011	/	Pass
				0	3.87	3.317	0.0013	/	Pass
				10	3.87	2.271	0.0009	/	Pass



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64QAM	2593	50	0	30	3.87	-0.867	-0.0003	/	Pass
				40	3.87	-1.943	-0.0008	/	Pass
				50	3.87	-1.606	-0.0006	/	Pass
				20	3.5	-3.894	-0.0015	/	Pass
					3.87	-2.861	-0.0011	/	Pass
					4.45	-0.028	0.0000	/	Pass
				-30	3.87	-1.085	-0.0004	/	Pass
				-20	3.87	-3.085	-0.0012	/	Pass
				-10	3.87	-2.533	-0.0010	/	Pass
				0	3.87	-5.053	-0.0019	/	Pass
				10	3.87	-9.368	-0.0036	/	Pass
				30	3.87	3.305	0.0013	/	Pass
				40	3.87	-4.481	-0.0017	/	Pass
				50	3.87	1.781	0.0007	/	Pass
	2685	50	0	20	3.5	-0.692	-0.0003	/	Pass
					3.87	-7.460	-0.0028	/	Pass
					4.45	-3.225	-0.0012	/	Pass
				-30	3.87	-1.030	-0.0004	/	Pass
				-20	3.87	-6.091	-0.0023	/	Pass
				-10	3.87	-6.164	-0.0023	/	Pass
				0	3.87	-3.761	-0.0014	/	Pass
				10	3.87	-3.223	-0.0012	/	Pass
				30	3.87	-5.361	-0.0020	/	Pass
				40	3.87	-7.348	-0.0027	/	Pass
				50	3.87	-12.329	-0.0046	/	Pass
	2501	50	0	20	3.5	-2.374	-0.0009	/	Pass
					3.87	-1.616	-0.0006	/	Pass
					4.45	-4.478	-0.0018	/	Pass
				-30	3.87	3.321	0.0013	/	Pass
				-20	3.87	1.089	0.0004	/	Pass
				-10	3.87	-3.108	-0.0012	/	Pass
				0	3.87	1.097	0.0004	/	Pass
				10	3.87	2.996	0.0012	/	Pass
				30	3.87	1.139	0.0005	/	Pass
				40	3.87	-1.360	-0.0005	/	Pass
				50	3.87	-0.158	-0.0001	/	Pass
	2593	50	0	20	3.5	1.206	0.0005	/	Pass
					3.87	-0.703	-0.0003	/	Pass
					4.45	-3.987	-0.0015	/	Pass
				-30	3.87	-10.056	-0.0039	/	Pass
				-20	3.87	2.959	0.0011	/	Pass
				-10	3.87	1.094	0.0004	/	Pass
				0	3.87	-2.348	-0.0009	/	Pass
				10	3.87	-5.865	-0.0023	/	Pass
				30	3.87	0.376	0.0001	/	Pass
				40	3.87	0.507	0.0002	/	Pass
				50	3.87	-3.032	-0.0012	/	Pass
	2685	50	0	20	3.5	-4.603	-0.0017	/	Pass
					3.87	-7.586	-0.0028	/	Pass



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					4.45	-2.646	-0.0010	/	Pass
				-30	3.87	-5.821	-0.0022	/	Pass
				-20	3.87	-8.897	-0.0033	/	Pass
				-10	3.87	-5.544	-0.0021	/	Pass
				0	3.87	-3.761	-0.0014	/	Pass
				10	3.87	-5.133	-0.0019	/	Pass
				30	3.87	-4.177	-0.0016	/	Pass
				40	3.87	-5.472	-0.0020	/	Pass
				50	3.87	-7.234	-0.0027	/	Pass



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2.3 B41_15MHz

2.3.1 Test Result

Band: 41 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2503.5	75	0	20	3.5	-8.432	-0.0034	/	Pass
					3.87	2.940	0.0012	/	Pass
					4.45	-0.565	-0.0002	/	Pass
				-30	3.87	-3.341	-0.0013	/	Pass
				-20	3.87	-1.402	-0.0006	/	Pass
				-10	3.87	-2.852	-0.0011	/	Pass
				0	3.87	-0.780	-0.0003	/	Pass
				10	3.87	-3.598	-0.0014	/	Pass
				30	3.87	-0.072	0.0000	/	Pass
				40	3.87	-0.224	-0.0001	/	Pass
				50	3.87	-2.294	-0.0009	/	Pass
	2593	75	0	20	3.5	-2.139	-0.0008	/	Pass
					3.87	0.410	0.0002	/	Pass
					4.45	-3.934	-0.0015	/	Pass
				-30	3.87	-3.305	-0.0013	/	Pass
				-20	3.87	-3.348	-0.0013	/	Pass
				-10	3.87	-4.248	-0.0016	/	Pass
				0	3.87	0.179	0.0001	/	Pass
				10	3.87	-0.835	-0.0003	/	Pass
				30	3.87	-2.732	-0.0011	/	Pass
				40	3.87	-0.757	-0.0003	/	Pass
				50	3.87	-4.362	-0.0017	/	Pass
	2682.5	75	0	20	3.5	-2.618	-0.0010	/	Pass
					3.87	-1.447	-0.0005	/	Pass
					4.45	-3.455	-0.0013	/	Pass
				-30	3.87	-1.256	-0.0005	/	Pass
				-20	3.87	-3.357	-0.0013	/	Pass
				-10	3.87	-2.259	-0.0008	/	Pass
				0	3.87	-0.570	-0.0002	/	Pass
				10	3.87	-5.384	-0.0020	/	Pass
				30	3.87	-4.070	-0.0015	/	Pass
				40	3.87	-3.139	-0.0012	/	Pass
				50	3.87	-3.506	-0.0013	/	Pass
16QAM	2503.5	75	0	20	3.5	0.866	0.0003	/	Pass
					3.87	-0.450	-0.0002	/	Pass
					4.45	-2.373	-0.0009	/	Pass
				-30	3.87	-3.905	-0.0016	/	Pass
				-20	3.87	-0.926	-0.0004	/	Pass
				-10	3.87	-3.506	-0.0014	/	Pass
				0	3.87	-1.667	-0.0007	/	Pass
				10	3.87	-0.148	-0.0001	/	Pass



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64QAM	2593	75	0	30	3.87	-0.537	-0.0002	/	Pass
				40	3.87	2.345	0.0009	/	Pass
				50	3.87	-3.340	-0.0013	/	Pass
				20	3.5	-1.419	-0.0005	/	Pass
					3.87	-4.177	-0.0016	/	Pass
					4.45	-3.207	-0.0012	/	Pass
				-30	3.87	1.002	0.0004	/	Pass
				-20	3.87	-5.598	-0.0022	/	Pass
				-10	3.87	-0.675	-0.0003	/	Pass
				0	3.87	-3.002	-0.0012	/	Pass
				10	3.87	0.410	0.0002	/	Pass
				30	3.87	-1.275	-0.0005	/	Pass
	2682.5	75	0	40	3.87	0.245	0.0001	/	Pass
				50	3.87	-1.114	-0.0004	/	Pass
				20	3.5	-2.483	-0.0009	/	Pass
					3.87	-3.052	-0.0011	/	Pass
					4.45	-3.957	-0.0015	/	Pass
				-30	3.87	-3.542	-0.0013	/	Pass
				-20	3.87	-3.830	-0.0014	/	Pass
				-10	3.87	-2.782	-0.0010	/	Pass
				0	3.87	-10.878	-0.0041	/	Pass
				10	3.87	1.175	0.0004	/	Pass
				30	3.87	-2.870	-0.0011	/	Pass
				40	3.87	-8.227	-0.0031	/	Pass
	2503.5	75	0	50	3.87	-8.832	-0.0033	/	Pass
				20	3.5	-2.243	-0.0009	/	Pass
					3.87	-2.093	-0.0008	/	Pass
					4.45	0.432	0.0002	/	Pass
				-30	3.87	-0.774	-0.0003	/	Pass
				-20	3.87	1.719	0.0007	/	Pass
				-10	3.87	-2.483	-0.0010	/	Pass
				0	3.87	-10.056	-0.0040	/	Pass
				10	3.87	1.116	0.0004	/	Pass
				30	3.87	2.754	0.0011	/	Pass
				40	3.87	-1.953	-0.0008	/	Pass
				50	3.87	2.548	0.0010	/	Pass
	2593	75	0	20	3.5	-2.168	-0.0008	/	Pass
					3.87	-2.602	-0.0010	/	Pass
					4.45	-3.199	-0.0012	/	Pass
				-30	3.87	-3.049	-0.0012	/	Pass
				-20	3.87	-3.262	-0.0013	/	Pass
				-10	3.87	-2.963	-0.0011	/	Pass
				0	3.87	-2.008	-0.0008	/	Pass
				10	3.87	0.637	0.0002	/	Pass
				30	3.87	-3.596	-0.0014	/	Pass
				40	3.87	-0.810	-0.0003	/	Pass
				50	3.87	-0.748	-0.0003	/	Pass
	2682.5	75	0	20	3.5	-3.633	-0.0014	/	Pass
					3.87	-1.061	-0.0004	/	Pass



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					4.45	-4.282	-0.0016	/	Pass
				-30	3.87	-0.577	-0.0002	/	Pass
				-20	3.87	-0.821	-0.0003	/	Pass
				-10	3.87	-2.506	-0.0009	/	Pass
				0	3.87	-1.522	-0.0006	/	Pass
				10	3.87	-3.662	-0.0014	/	Pass
				30	3.87	-2.058	-0.0008	/	Pass
				40	3.87	-2.454	-0.0009	/	Pass
				50	3.87	-1.250	-0.0005	/	Pass



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2.4 B41_20MHz

2.4.1 Test Result

Band: 41 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2506	100	0	20	3.5	0.163	0.0001	/	Pass
					3.87	0.697	0.0003	/	Pass
					4.45	-3.989	-0.0016	/	Pass
				-30	3.87	-3.085	-0.0012	/	Pass
				-20	3.87	-2.745	-0.0011	/	Pass
				-10	3.87	-1.922	-0.0008	/	Pass
				0	3.87	-0.335	-0.0001	/	Pass
				10	3.87	-2.256	-0.0009	/	Pass
				30	3.87	-2.756	-0.0011	/	Pass
				40	3.87	-2.738	-0.0011	/	Pass
				50	3.87	-0.414	-0.0002	/	Pass
	2593	100	0	20	3.5	-2.149	-0.0008	/	Pass
					3.87	-0.908	-0.0004	/	Pass
					4.45	-2.806	-0.0011	/	Pass
				-30	3.87	-1.035	-0.0004	/	Pass
				-20	3.87	-4.640	-0.0018	/	Pass
				-10	3.87	1.159	0.0004	/	Pass
				0	3.87	-5.478	-0.0021	/	Pass
				10	3.87	-1.927	-0.0007	/	Pass
				30	3.87	-1.594	-0.0006	/	Pass
				40	3.87	0.721	0.0003	/	Pass
				50	3.87	-4.310	-0.0017	/	Pass
	2680	100	0	20	3.5	-2.565	-0.0010	/	Pass
					3.87	-0.320	-0.0001	/	Pass
					4.45	-4.340	-0.0016	/	Pass
				-30	3.87	-5.304	-0.0020	/	Pass
				-20	3.87	0.233	0.0001	/	Pass
				-10	3.87	-1.001	-0.0004	/	Pass
				0	3.87	-1.691	-0.0006	/	Pass
				10	3.87	-4.411	-0.0016	/	Pass
				30	3.87	-1.685	-0.0006	/	Pass
				40	3.87	-3.072	-0.0011	/	Pass
				50	3.87	-4.175	-0.0016	/	Pass
16QAM	2506	100	0	20	3.5	0.625	0.0002	/	Pass
					3.87	1.869	0.0007	/	Pass
					4.45	-0.058	0.0000	/	Pass
				-30	3.87	-0.420	-0.0002	/	Pass
				-20	3.87	-0.277	-0.0001	/	Pass
				-10	3.87	-0.986	-0.0004	/	Pass
				0	3.87	-4.634	-0.0018	/	Pass
				10	3.87	1.452	0.0006	/	Pass



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				30	3.87	-0.958	-0.0004	/	Pass
				40	3.87	1.101	0.0004	/	Pass
				50	3.87	3.304	0.0013	/	Pass
2593	100	0	20	3.5	-0.837	-0.0003	/	/	Pass
				3.87	1.143	0.0004	/	/	Pass
				4.45	-3.444	-0.0013	/	/	Pass
			-30	3.87	-4.720	-0.0018	/	/	Pass
			-20	3.87	1.531	0.0006	/	/	Pass
			-10	3.87	-4.519	-0.0017	/	/	Pass
			0	3.87	-4.303	-0.0017	/	/	Pass
			10	3.87	-0.443	-0.0002	/	/	Pass
			30	3.87	-0.959	-0.0004	/	/	Pass
			40	3.87	-2.302	-0.0009	/	/	Pass
			50	3.87	-1.993	-0.0008	/	/	Pass
2680	100	0	20	3.5	-3.306	-0.0012	/	/	Pass
				3.87	-0.884	-0.0003	/	/	Pass
				4.45	-6.642	-0.0025	/	/	Pass
			-30	3.87	-6.355	-0.0024	/	/	Pass
			-20	3.87	0.277	0.0001	/	/	Pass
			-10	3.87	-2.690	-0.0010	/	/	Pass
			0	3.87	-4.576	-0.0017	/	/	Pass
			10	3.87	-4.380	-0.0016	/	/	Pass
			30	3.87	-1.884	-0.0007	/	/	Pass
			40	3.87	-4.257	-0.0016	/	/	Pass
			50	3.87	-1.643	-0.0006	/	/	Pass
64QAM	2506	100	20	3.5	-2.317	-0.0009	/	/	Pass
				3.87	1.696	0.0007	/	/	Pass
				4.45	-0.639	-0.0003	/	/	Pass
			-30	3.87	0.462	0.0002	/	/	Pass
			-20	3.87	-0.273	-0.0001	/	/	Pass
			-10	3.87	-3.798	-0.0015	/	/	Pass
			0	3.87	-0.669	-0.0003	/	/	Pass
			10	3.87	-2.318	-0.0009	/	/	Pass
			30	3.87	-3.468	-0.0014	/	/	Pass
			40	3.87	-0.747	-0.0003	/	/	Pass
			50	3.87	-2.741	-0.0011	/	/	Pass
	2593	100	20	3.5	-3.285	-0.0013	/	/	Pass
				3.87	-2.388	-0.0009	/	/	Pass
				4.45	-0.606	-0.0002	/	/	Pass
			-30	3.87	-2.472	-0.0010	/	/	Pass
			-20	3.87	-4.386	-0.0017	/	/	Pass
			-10	3.87	-2.952	-0.0011	/	/	Pass
			0	3.87	-1.153	-0.0004	/	/	Pass
			10	3.87	-0.758	-0.0003	/	/	Pass
			30	3.87	-4.079	-0.0016	/	/	Pass
			40	3.87	-1.172	-0.0005	/	/	Pass
			50	3.87	-2.667	-0.0010	/	/	Pass
	2680	100	0	20	3.5	-0.874	-0.0003	/	Pass
				3.87	-5.172	-0.0019	/	/	Pass



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					4.45	-3.871	-0.0014	/	Pass
				-30	3.87	-0.720	-0.0003	/	Pass
				-20	3.87	-0.037	0.0000	/	Pass
				-10	3.87	2.170	0.0008	/	Pass
				0	3.87	-1.270	-0.0005	/	Pass
				10	3.87	-5.524	-0.0021	/	Pass
				30	3.87	-1.652	-0.0006	/	Pass
				40	3.87	-3.138	-0.0012	/	Pass
				50	3.87	-2.175	-0.0008	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band41_OBW

3.1.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	4.558	/	Pass
		2593	25	0	4.565	/	Pass
		2687.5	25	0	4.559	/	Pass
	16QAM	2498.5	25	0	4.599	/	Pass
		2593	25	0	4.554	/	Pass
		2687.5	25	0	4.552	/	Pass
	64QAM	2498.5	25	0	4.568	/	Pass
		2593	25	0	4.568	/	Pass
		2687.5	25	0	4.568	/	Pass
10	QPSK	2501	50	0	9.076	/	Pass
		2593	50	0	9.093	/	Pass
		2685	50	0	9.097	/	Pass
	16QAM	2501	50	0	9.089	/	Pass
		2593	50	0	9.064	/	Pass
		2685	50	0	9.085	/	Pass
	64QAM	2501	50	0	9.030	/	Pass
		2593	50	0	9.050	/	Pass
		2685	50	0	9.078	/	Pass
15	QPSK	2503.5	75	0	13.641	/	Pass
		2593	75	0	13.603	/	Pass
		2682.5	75	0	13.580	/	Pass
	16QAM	2503.5	75	0	13.629	/	Pass
		2593	75	0	13.572	/	Pass
		2682.5	75	0	13.635	/	Pass
	64QAM	2503.5	75	0	13.579	/	Pass
		2593	75	0	13.610	/	Pass
		2682.5	75	0	13.600	/	Pass
20	QPSK	2506	100	0	18.130	/	Pass
		2593	100	0	18.080	/	Pass
		2680	100	0	18.158	/	Pass
	16QAM	2506	100	0	18.062	/	Pass
		2593	100	0	18.149	/	Pass
		2680	100	0	18.156	/	Pass
	64QAM	2506	100	0	18.088	/	Pass
		2593	100	0	18.116	/	Pass
		2680	100	0	18.092	/	Pass

3.2 Band41_XDB



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3.2.1 Test Result

Band: 41 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2498.5	25	0	5.605	/	Pass
		2593	25	0	6.289	/	Pass
		2687.5	25	0	5.422	/	Pass
	16QAM	2498.5	25	0	6.131	/	Pass
		2593	25	0	5.723	/	Pass
		2687.5	25	0	5.248	/	Pass
	64QAM	2498.5	25	0	5.581	/	Pass
		2593	25	0	5.937	/	Pass
		2687.5	25	0	5.912	/	Pass
10	QPSK	2501	50	0	11.148	/	Pass
		2593	50	0	12.565	/	Pass
		2685	50	0	11.754	/	Pass
	16QAM	2501	50	0	11.630	/	Pass
		2593	50	0	10.846	/	Pass
		2685	50	0	11.708	/	Pass
	64QAM	2501	50	0	9.986	/	Pass
		2593	50	0	10.248	/	Pass
		2685	50	0	11.170	/	Pass
15	QPSK	2503.5	75	0	15.354	/	Pass
		2593	75	0	16.863	/	Pass
		2682.5	75	0	16.521	/	Pass
	16QAM	2503.5	75	0	15.393	/	Pass
		2593	75	0	16.717	/	Pass
		2682.5	75	0	16.656	/	Pass
	64QAM	2503.5	75	0	15.492	/	Pass
		2593	75	0	16.285	/	Pass
		2682.5	75	0	15.493	/	Pass
20	QPSK	2506	100	0	21.884	/	Pass
		2593	100	0	22.398	/	Pass
		2680	100	0	21.713	/	Pass
	16QAM	2506	100	0	22.133	/	Pass
		2593	100	0	23.510	/	Pass
		2680	100	0	22.279	/	Pass
	64QAM	2506	100	0	23.239	/	Pass
		2593	100	0	21.493	/	Pass
		2680	100	0	21.681	/	Pass



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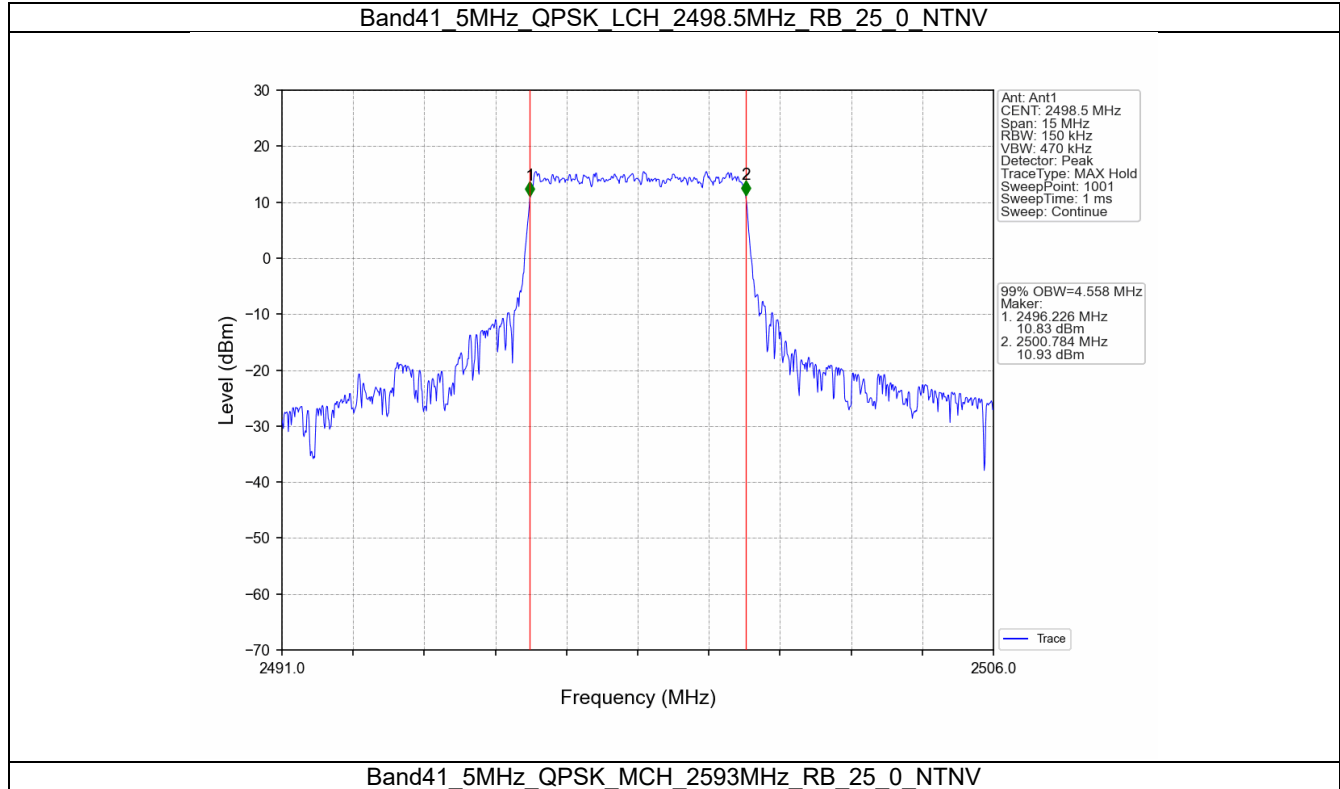
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3.1 Band41_OBW

3.1.2 Test Graph



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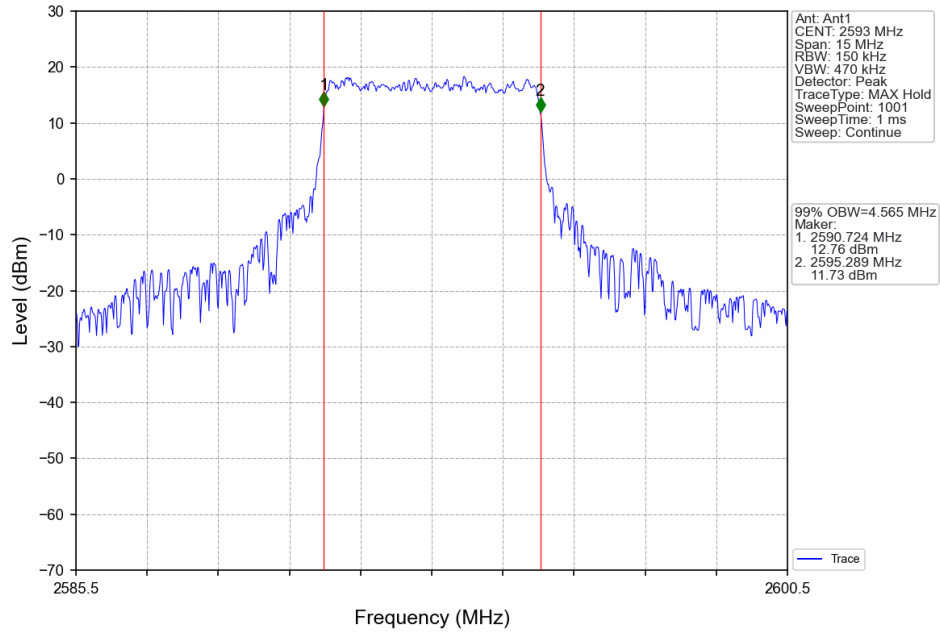
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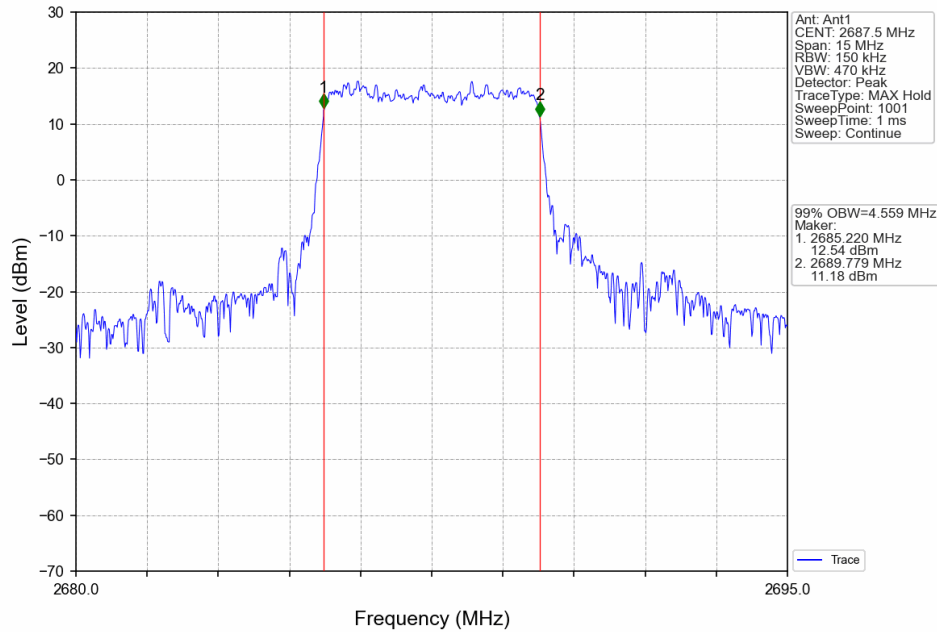
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Band41_5MHz_QPSK_HCH_2687.5MHz_RB_25_0_NTNV



Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



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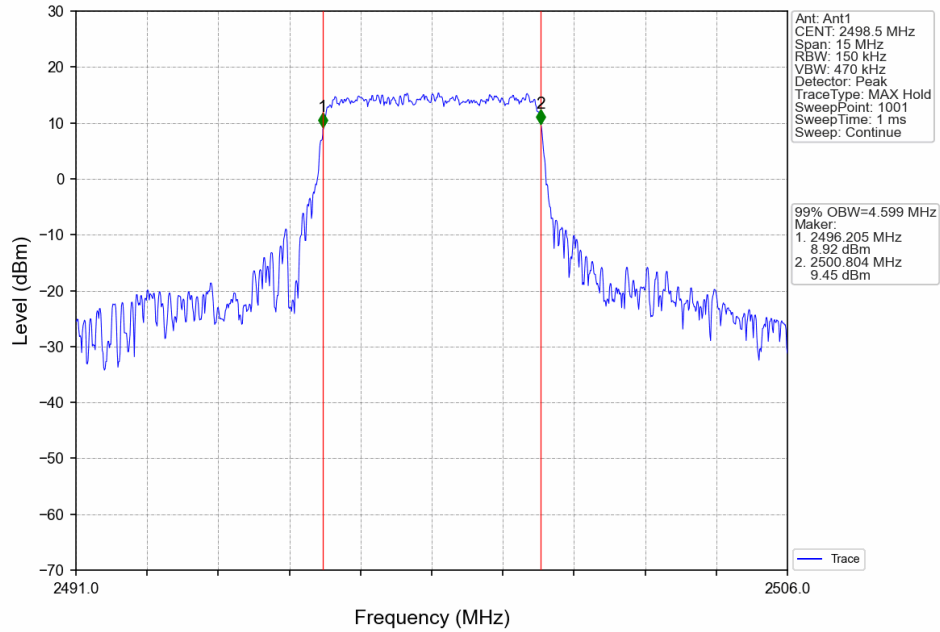
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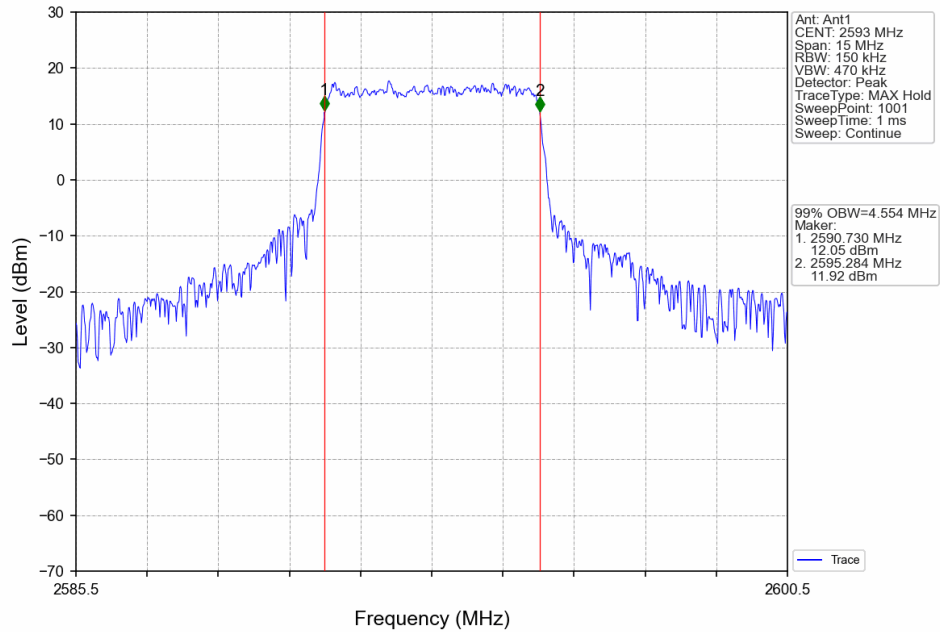
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Band41_5MHz_16QAM_HCH_2687.5MHz_RB_25_0_NTNV



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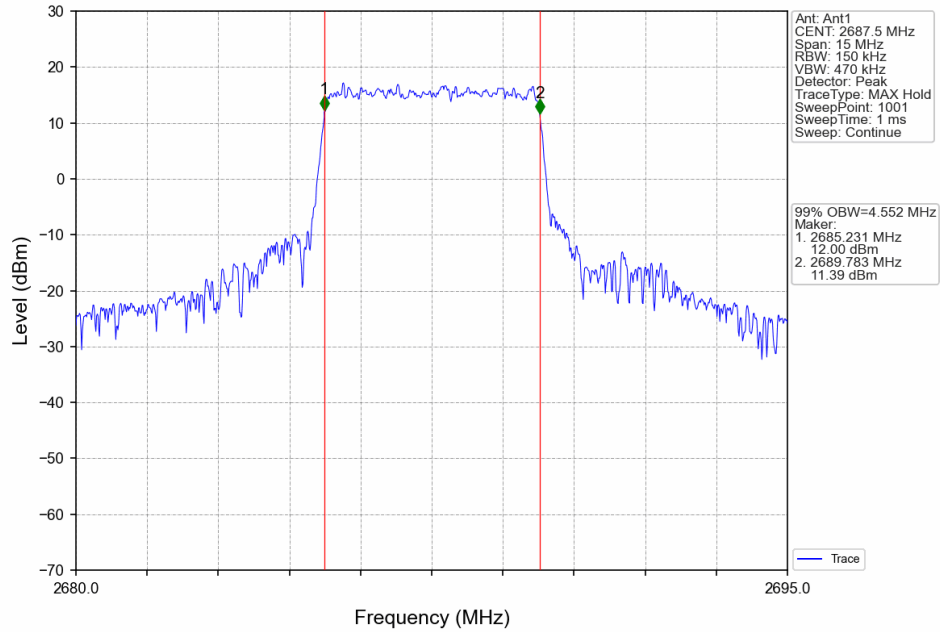
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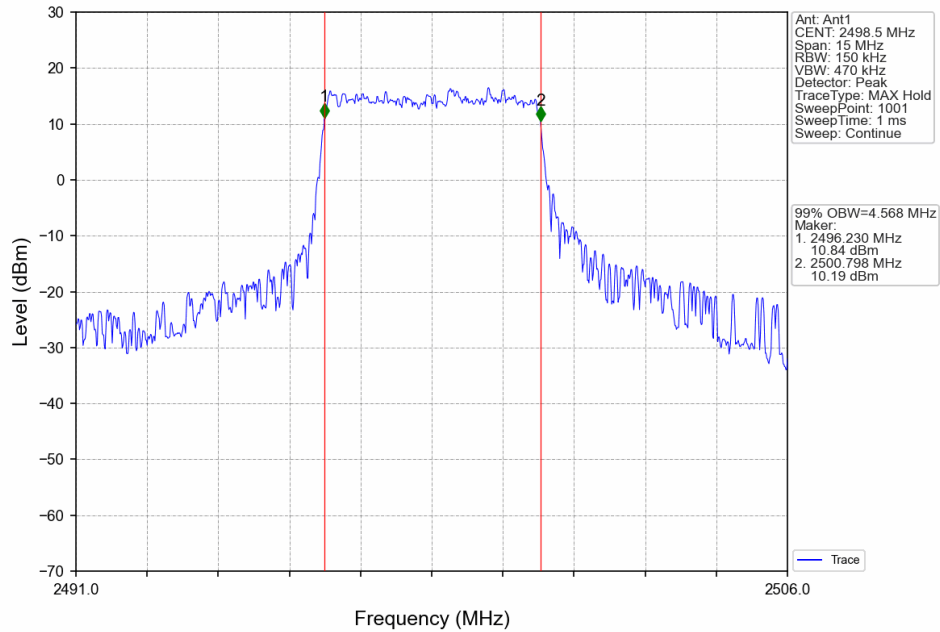
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Band41_5MHz_64QAM_MCH_2593MHz_RB_25_0_NTNV



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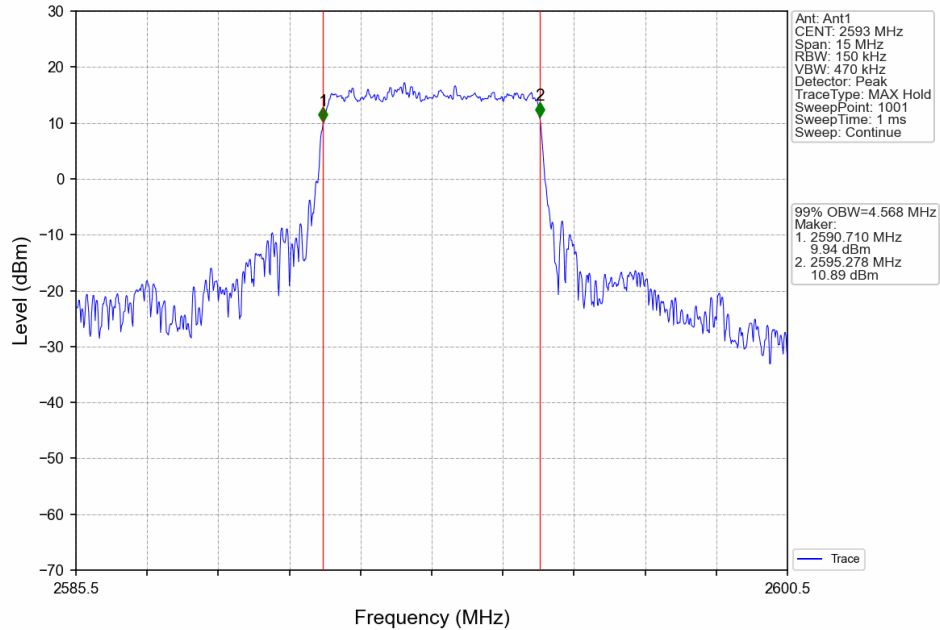
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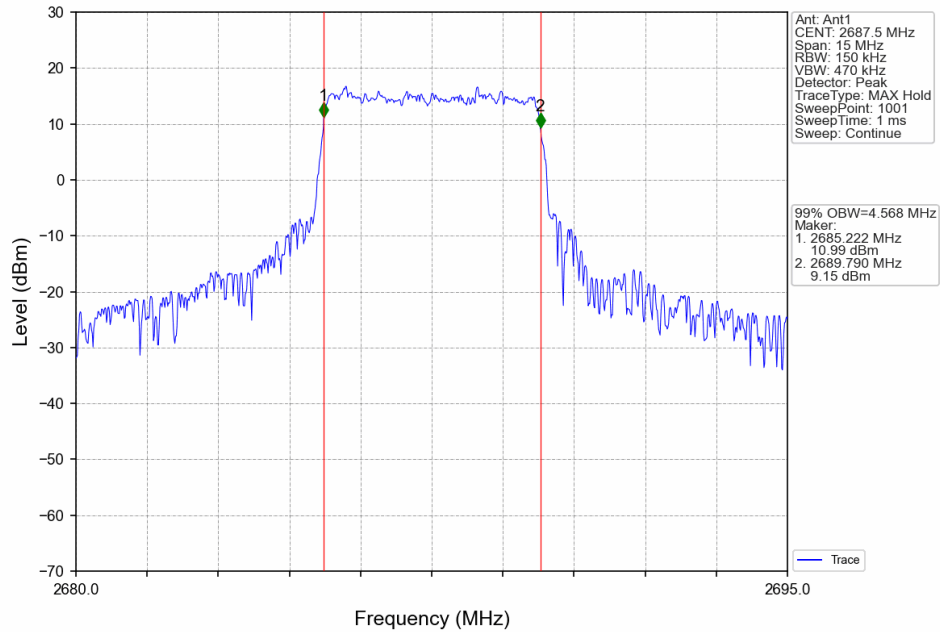
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Band41_5MHz_64QAM_HCH_2687.5MHz_RB_25_0_NTNV



Band41_10MHz_QPSK_LCH_2501MHz_RB_50_0_NTNV



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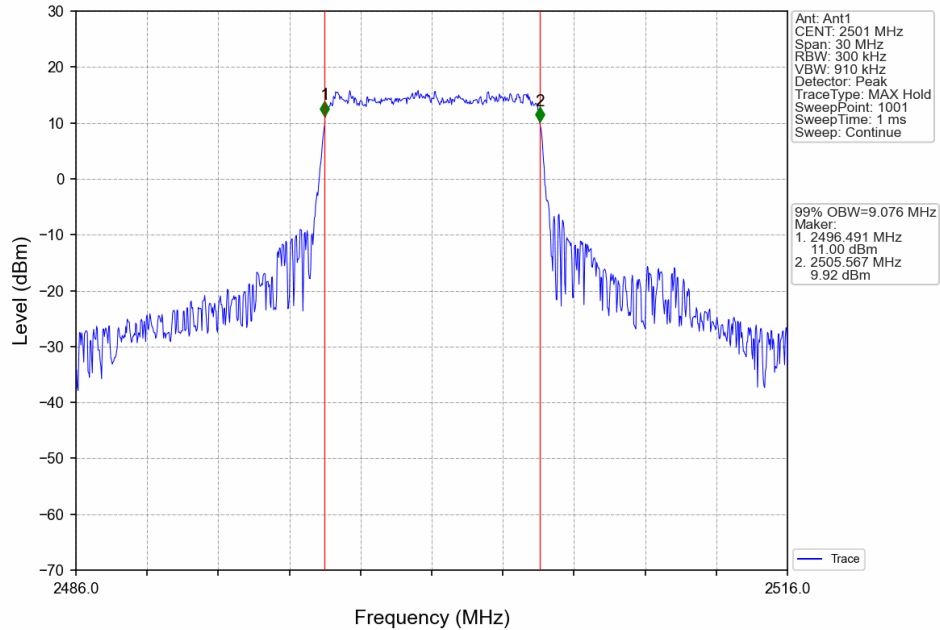
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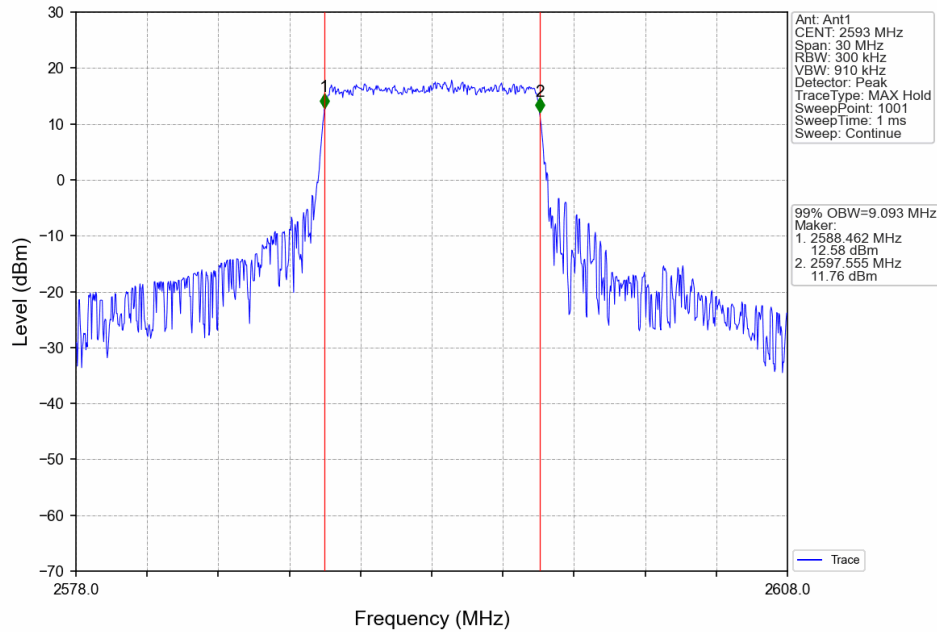
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Band41_10MHz_QPSK_MCH_2593MHz_RB_50_0_NTNV



Band41_10MHz_QPSK_HCH_2685MHz_RB_50_0_NTNV



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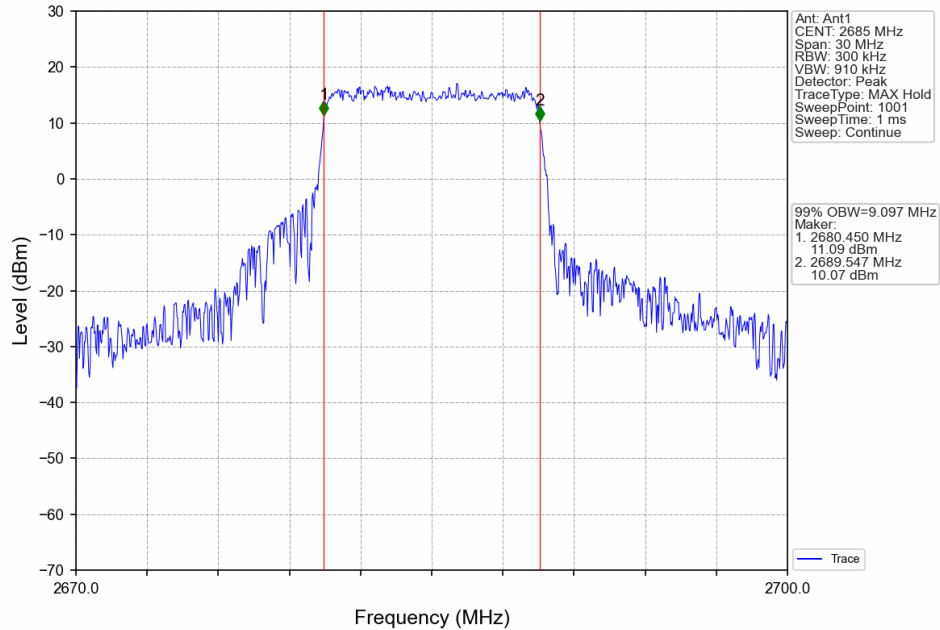
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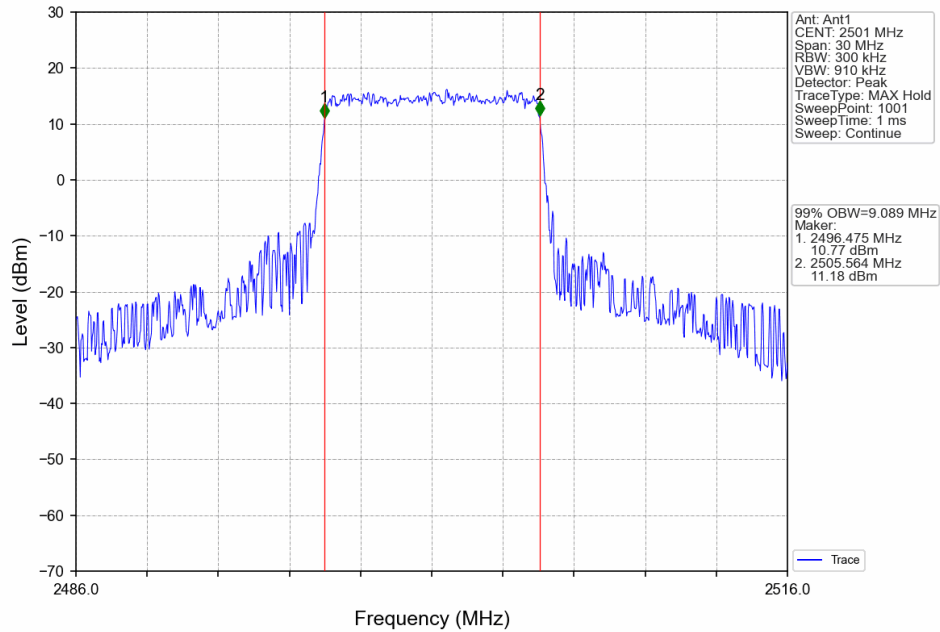
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Band41 10MHz 16QAM LCH 2501MHz RB 50 0 NTN



Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



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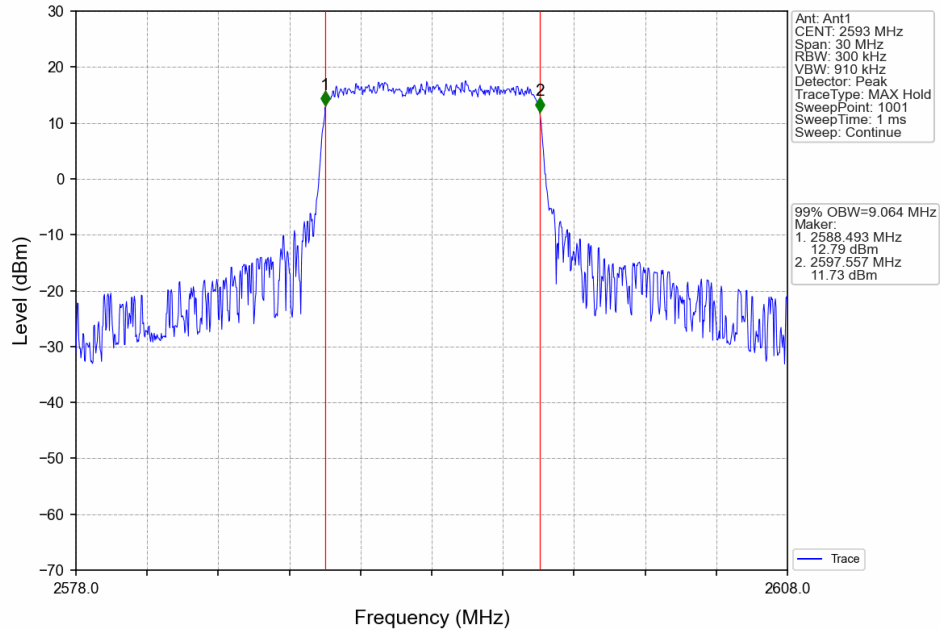
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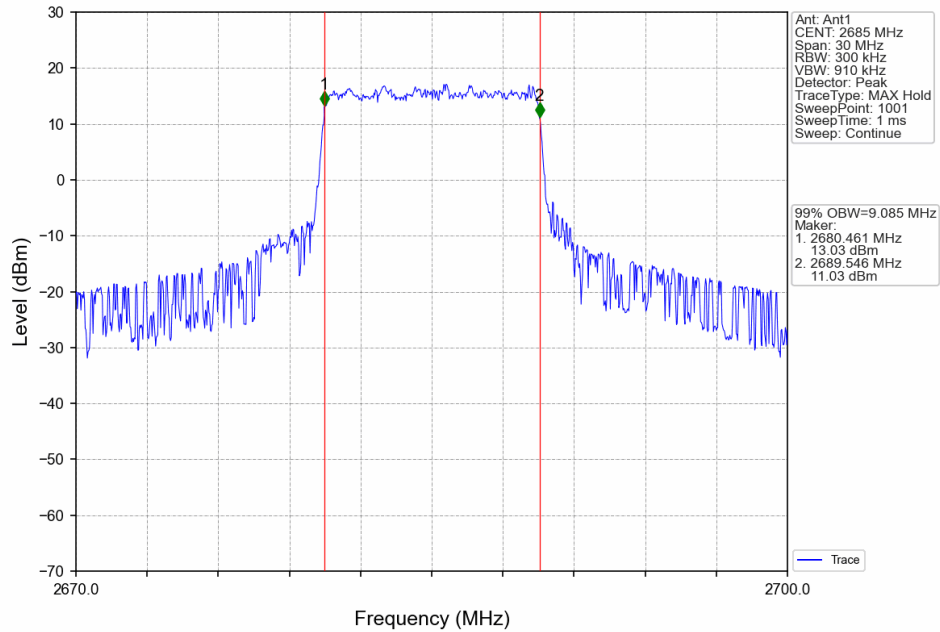
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Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTN



Band41 10MHz 64QAM LCH 2501MHz RB 50 0 NTN



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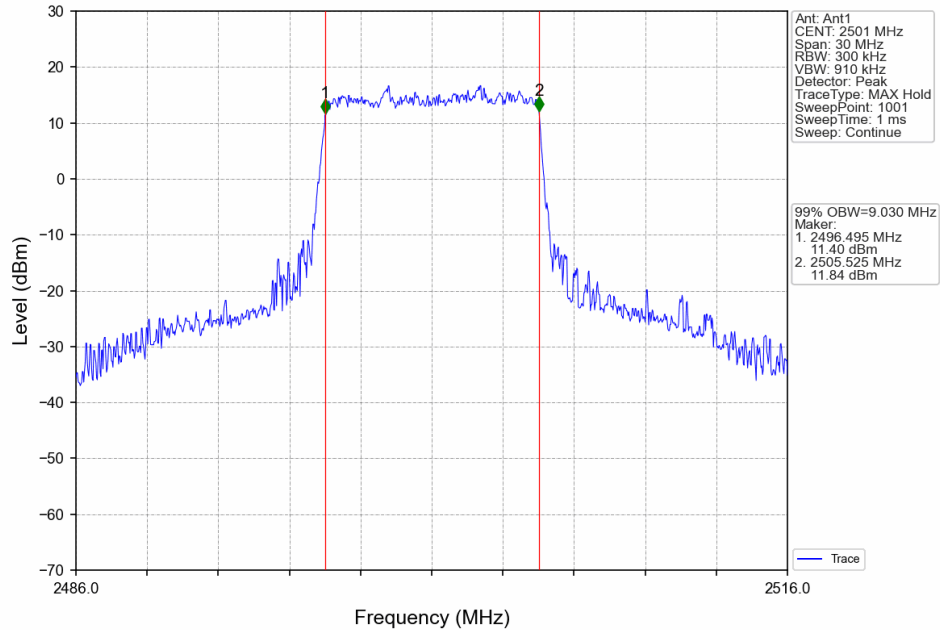
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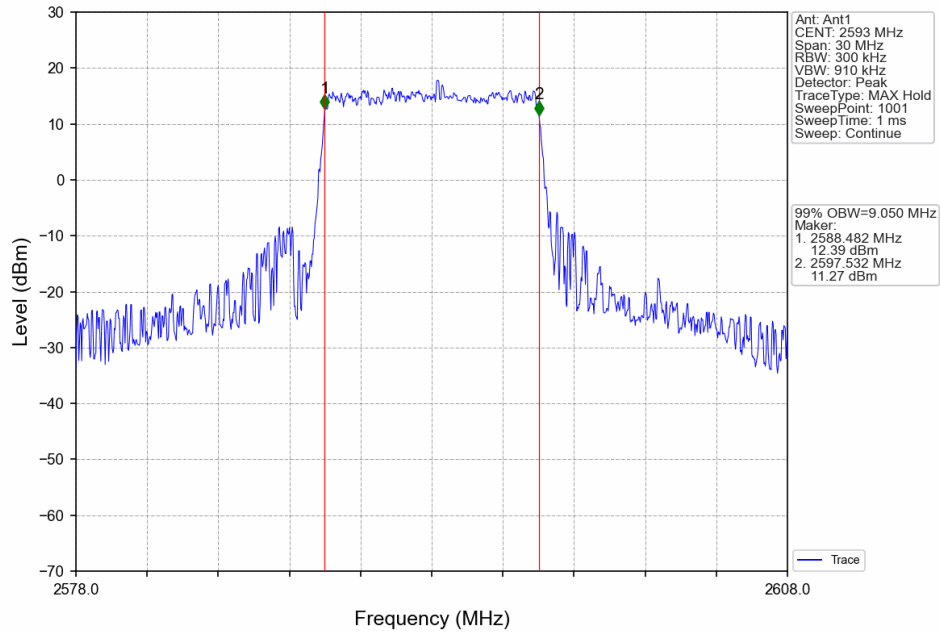
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Band41 10MHz 64QAM MCH 2593MHz RB 50 0 NTNV



Band41 10MHz 64QAM HCH 2685MHz RB 50 0 NTNV



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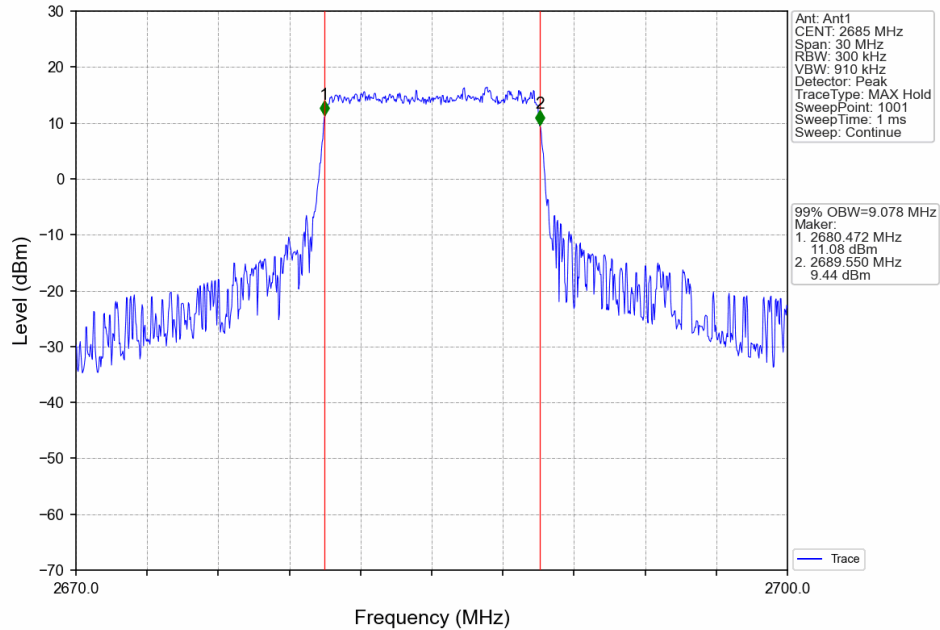
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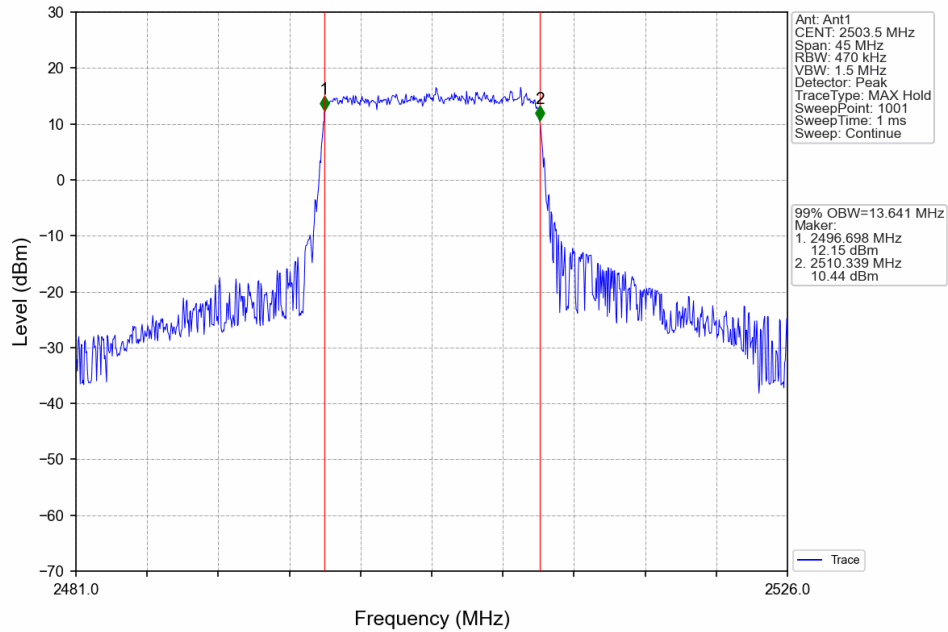
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Band41_15MHz_QPSK_LCH_2503.5MHz_RB_75_0_NTNV



Band41_15MHz_QPSK_MCH_2593MHz_RB_75_0_NTNV



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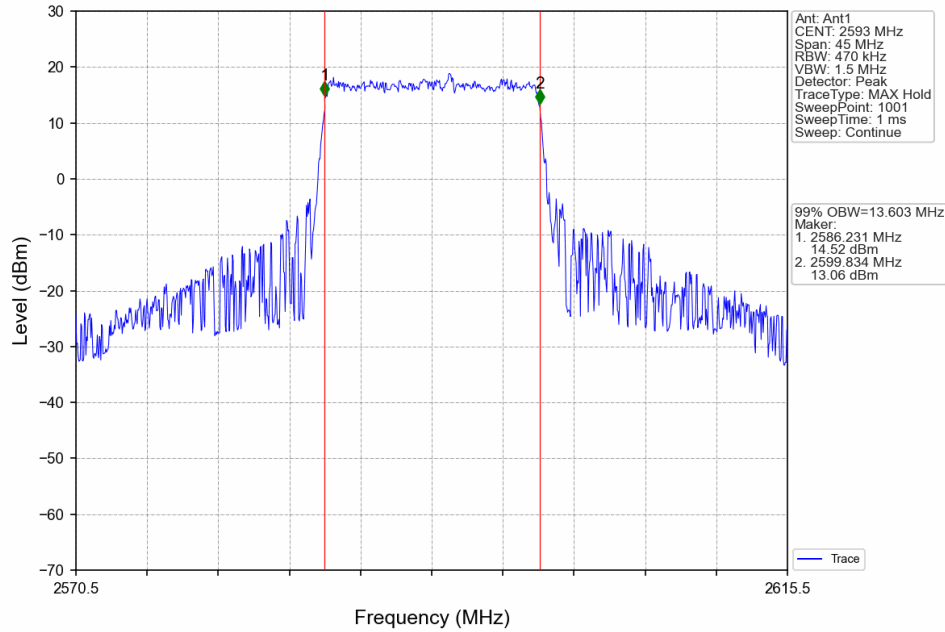
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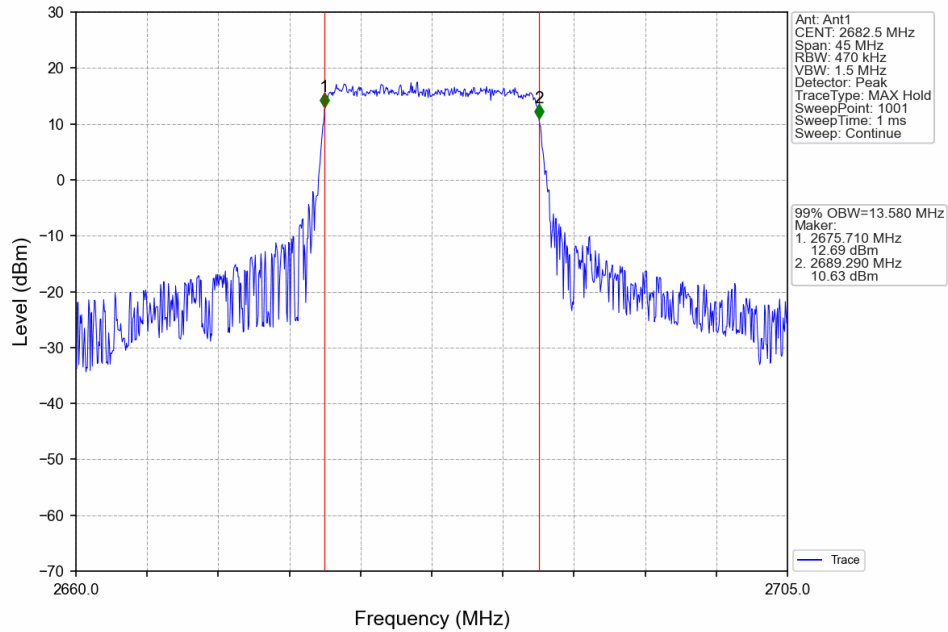
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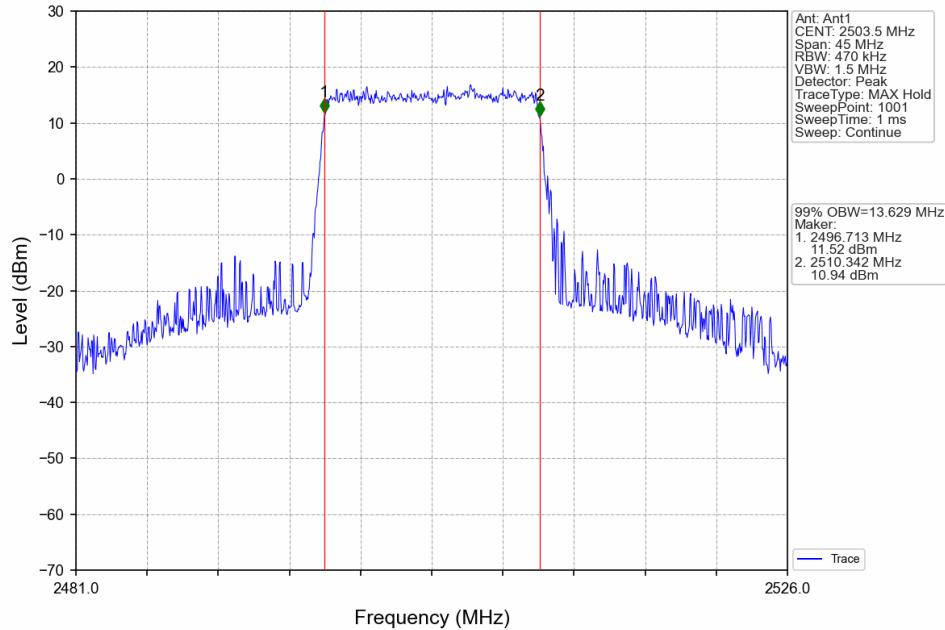
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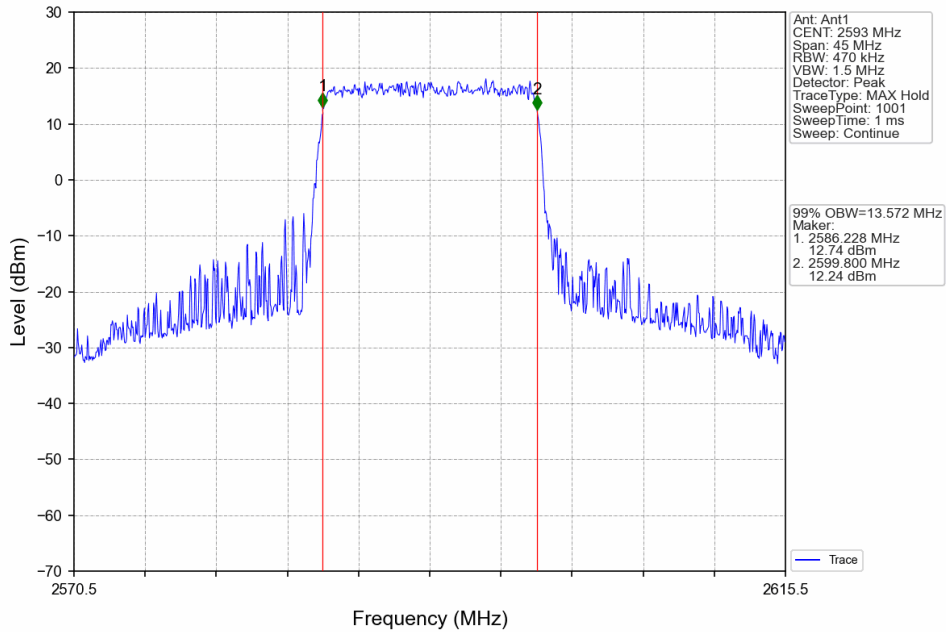
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Band41_15MHz_16QAM_HCH_2682.5MHz_RB_75_0_NTNV



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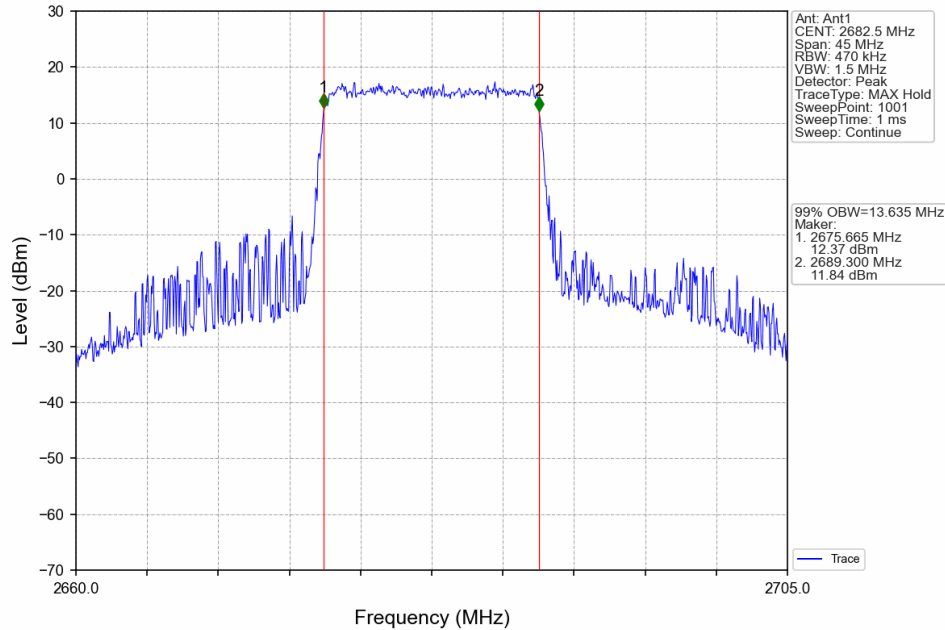
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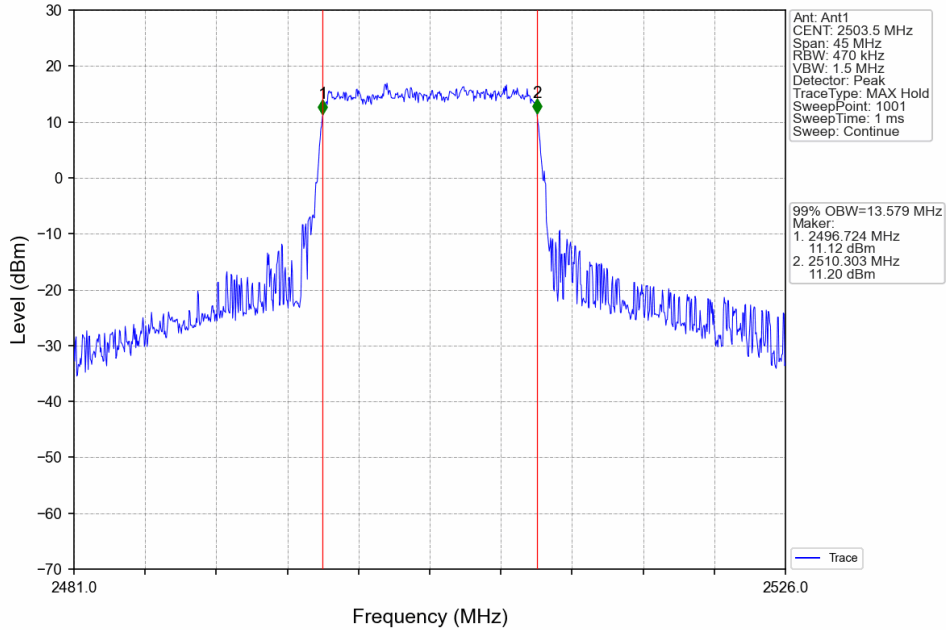
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Band41_15MHz_64QAM_MCH_2593MHz_RB_75_0_NTNV



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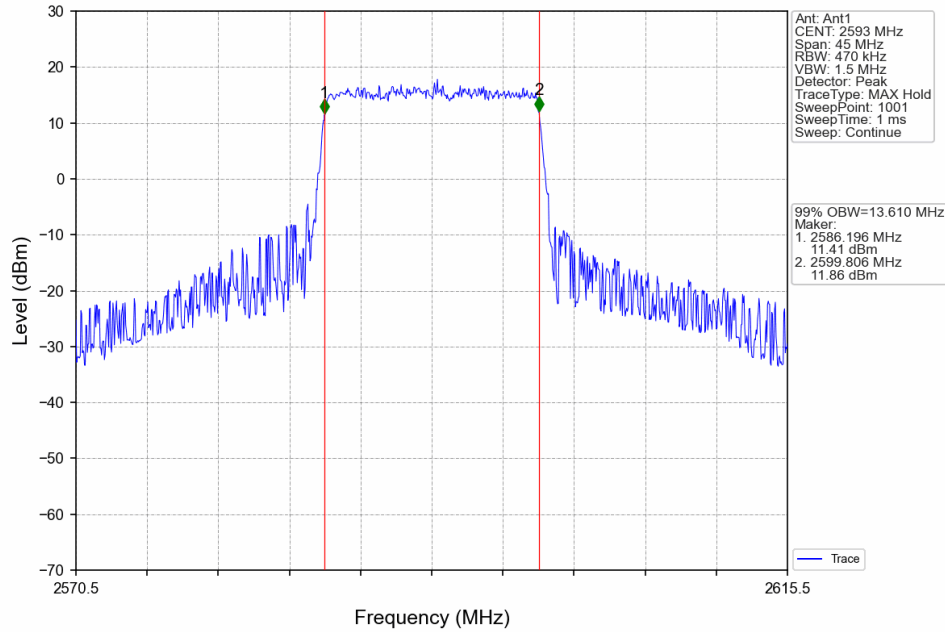
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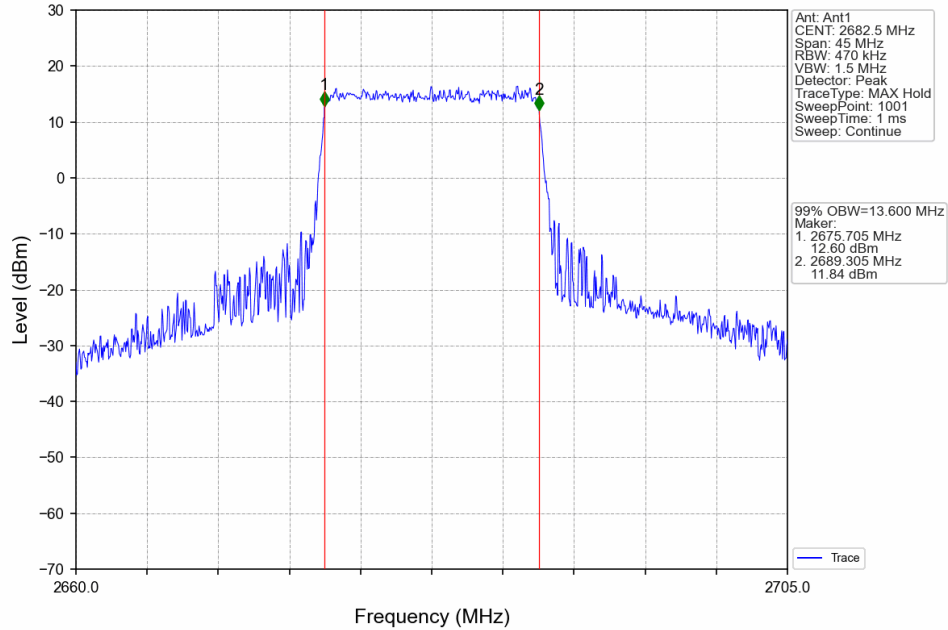
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Band41_20MHz_QPSK_LCH_2506MHz_RB_100_0_NTNV



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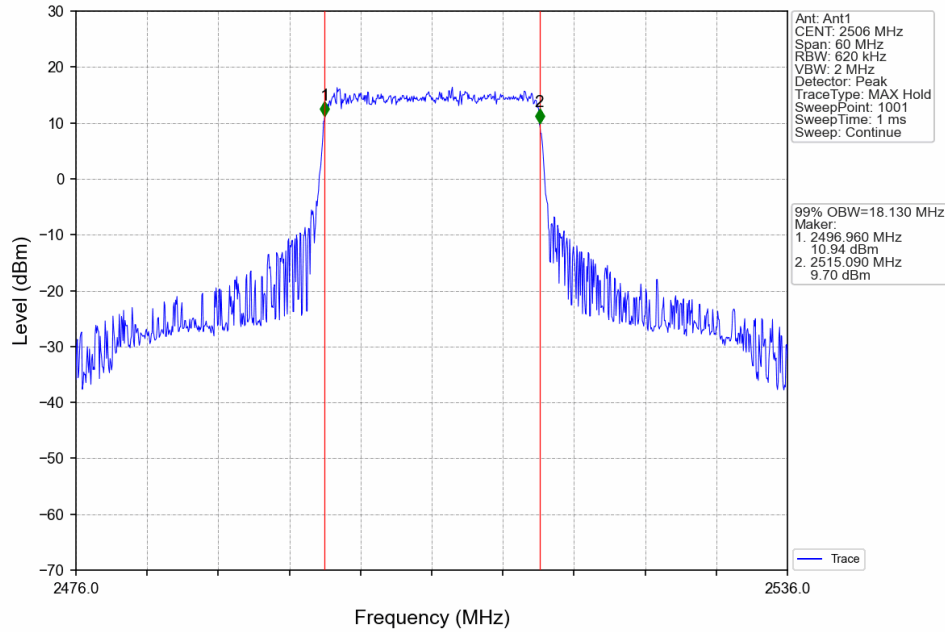
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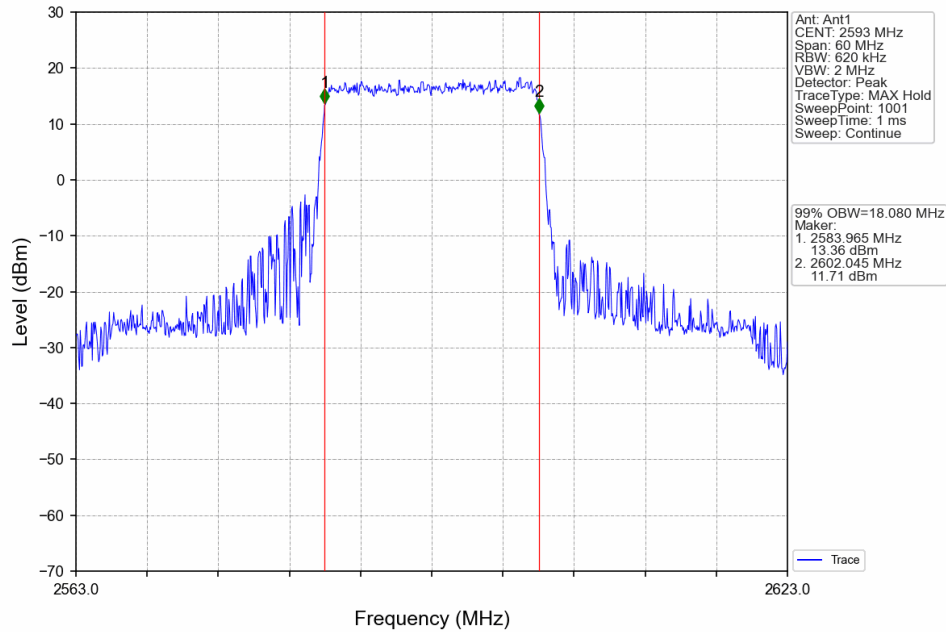
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Band41 20MHz QPSK MCH 2593MHz RB 100 0 NTNV



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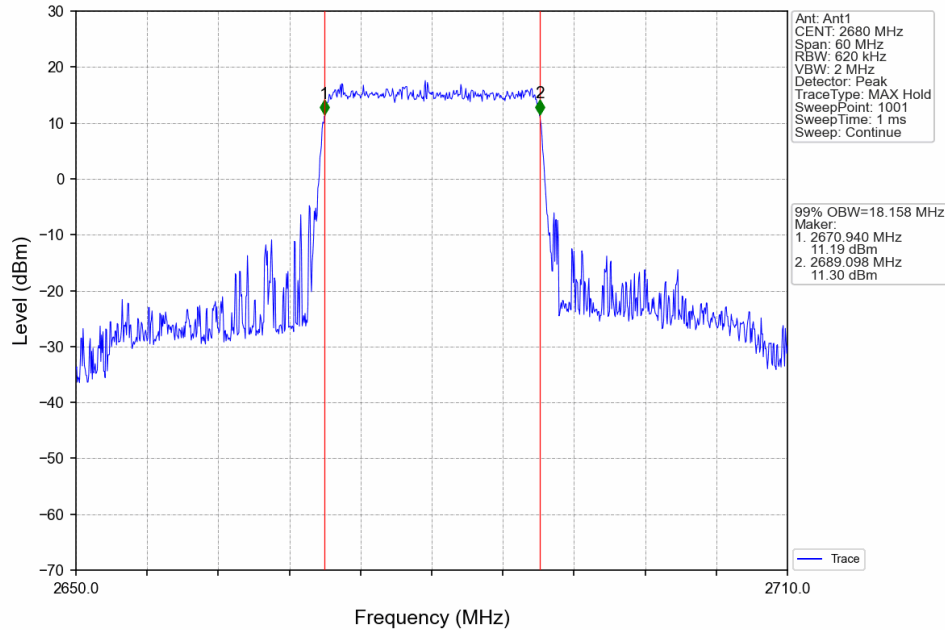
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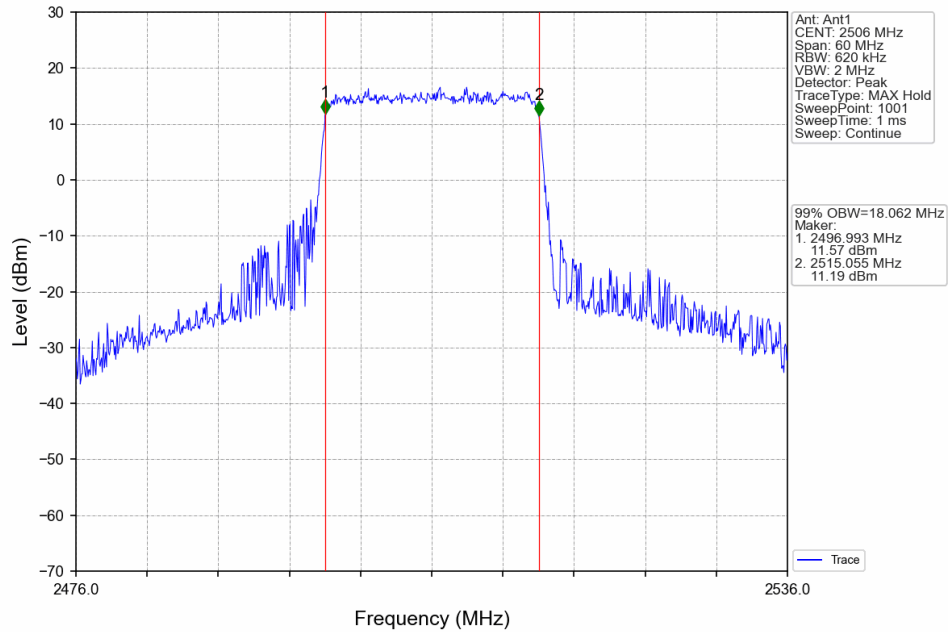
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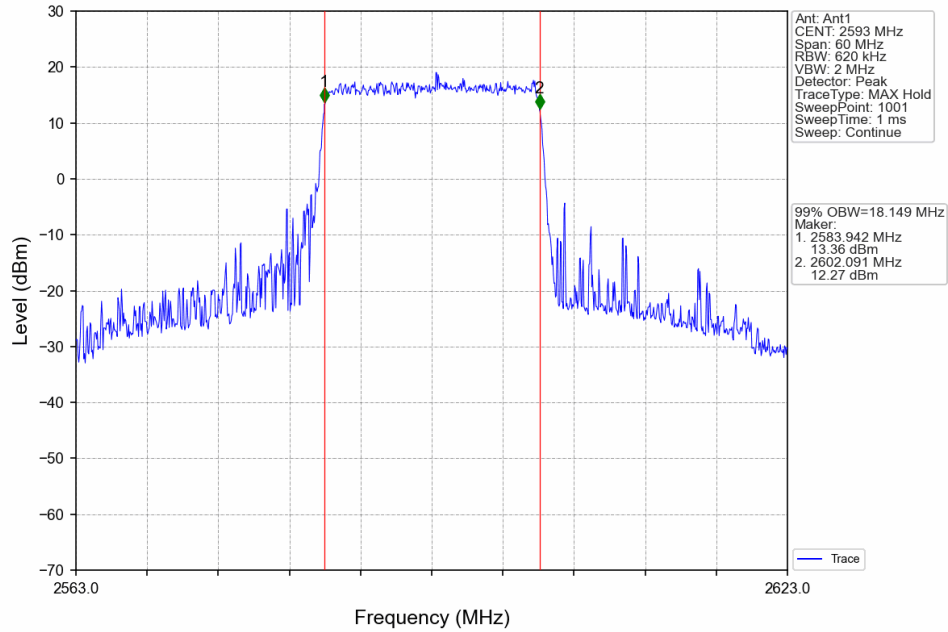
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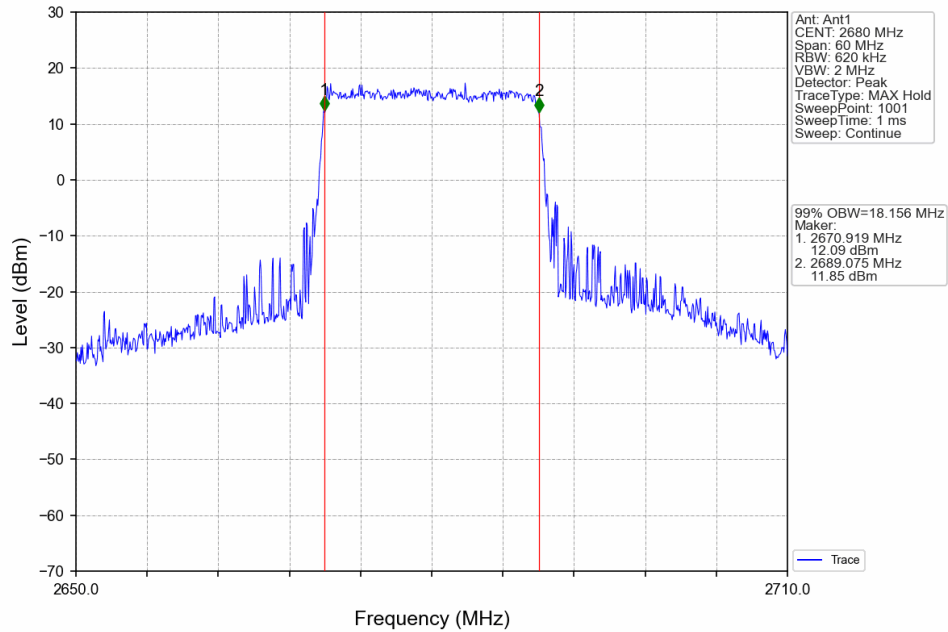
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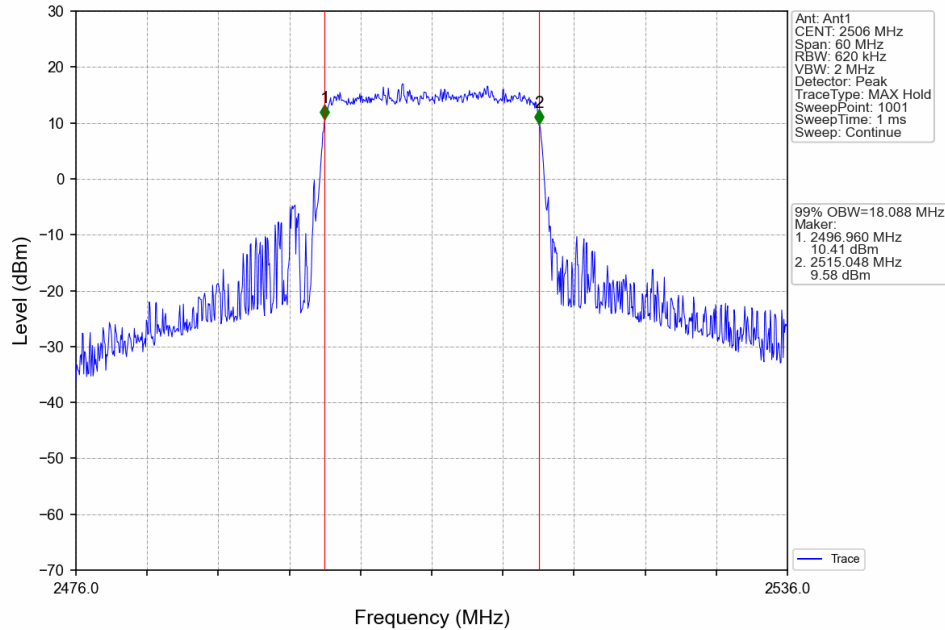
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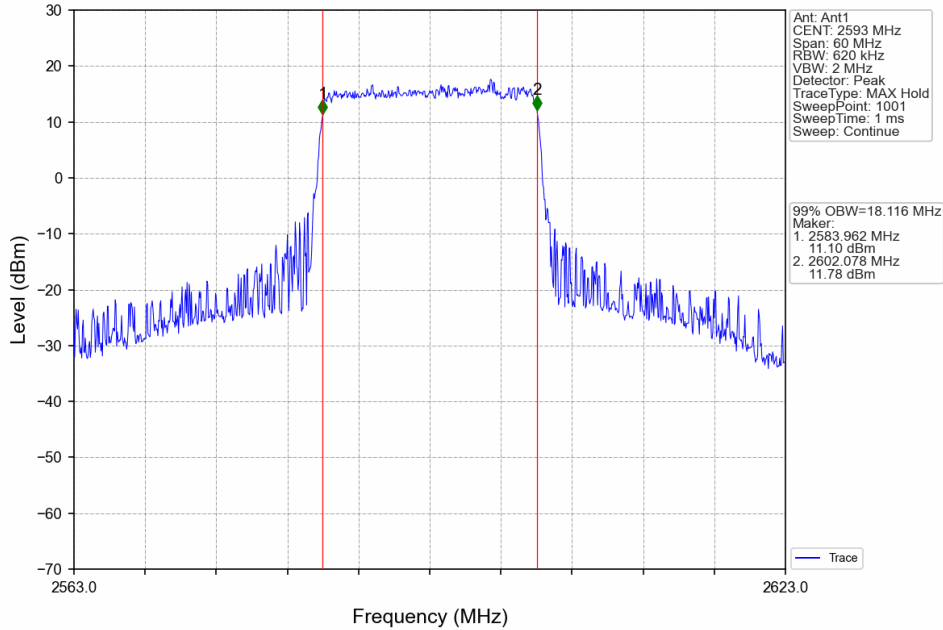
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Band41_20MHz_64QAM_HCH_2680MHz_RB_100_0_NTNV



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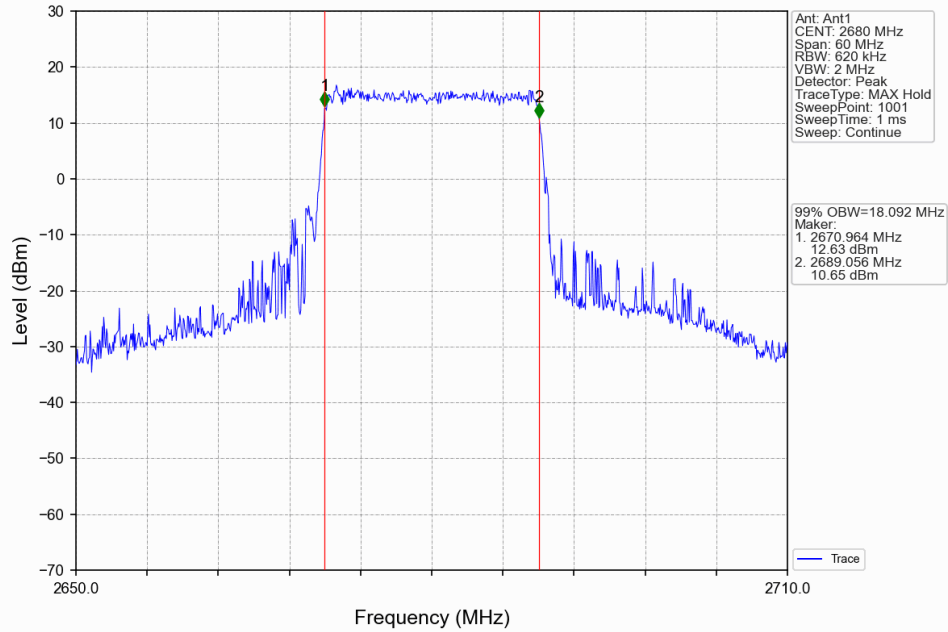
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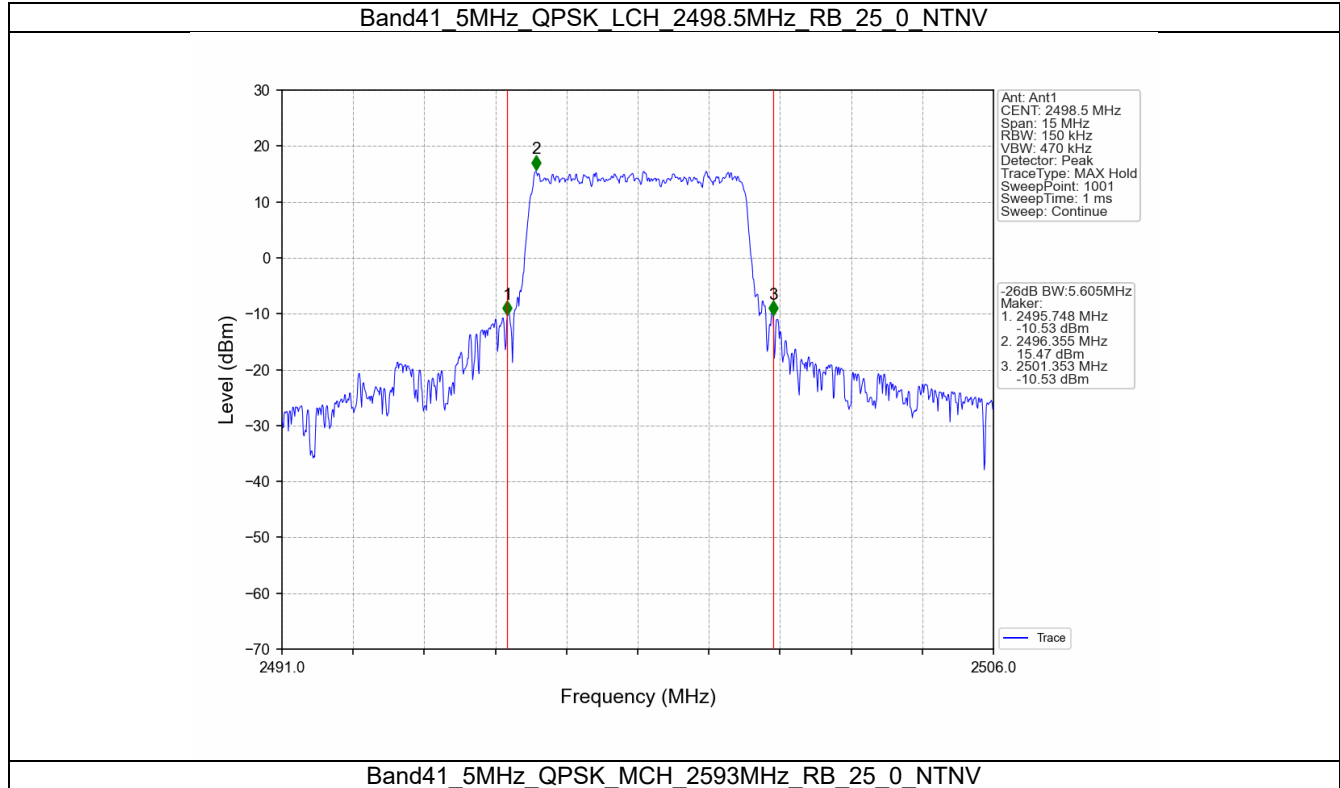
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3.2 Band41_XDB

3.2.2 Test Graph



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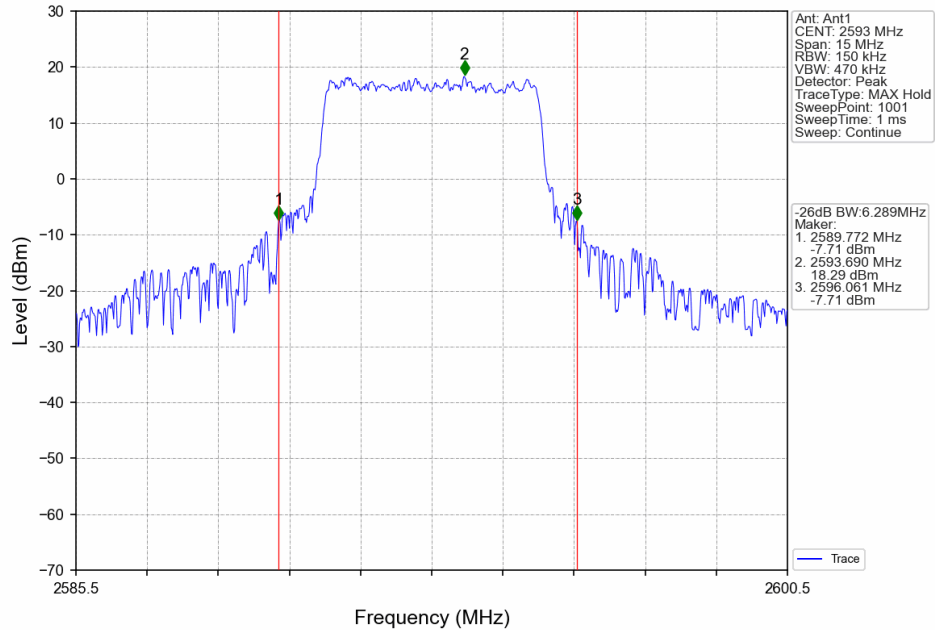
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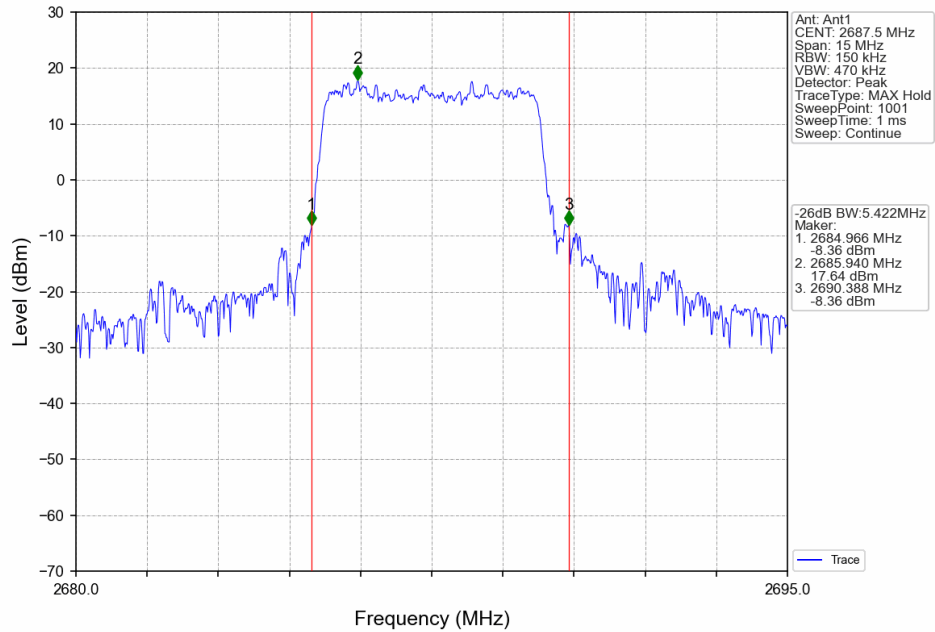
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Band41_5MHz_16QAM_LCH_2498.5MHz_RB_25_0_NTNV



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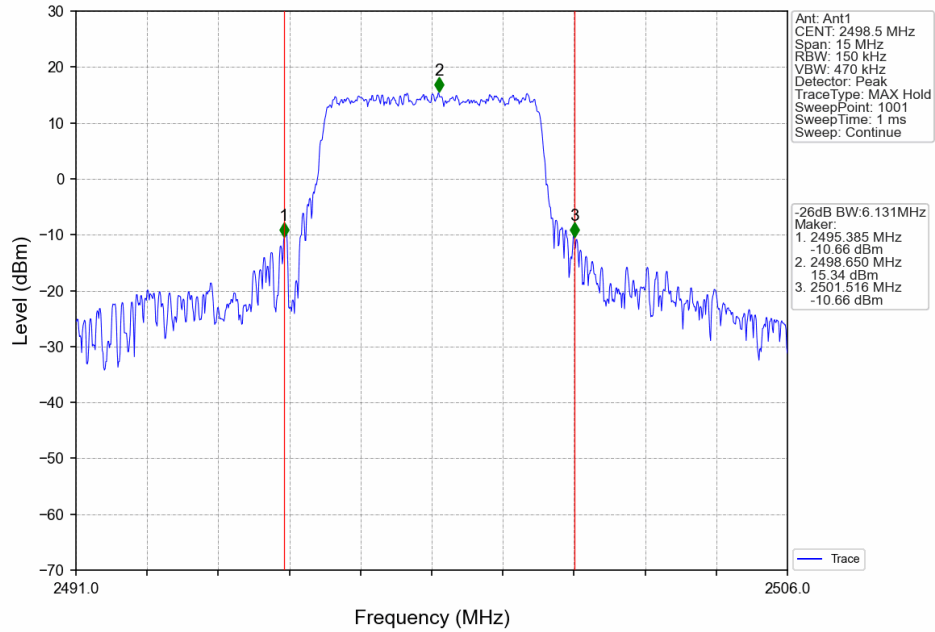
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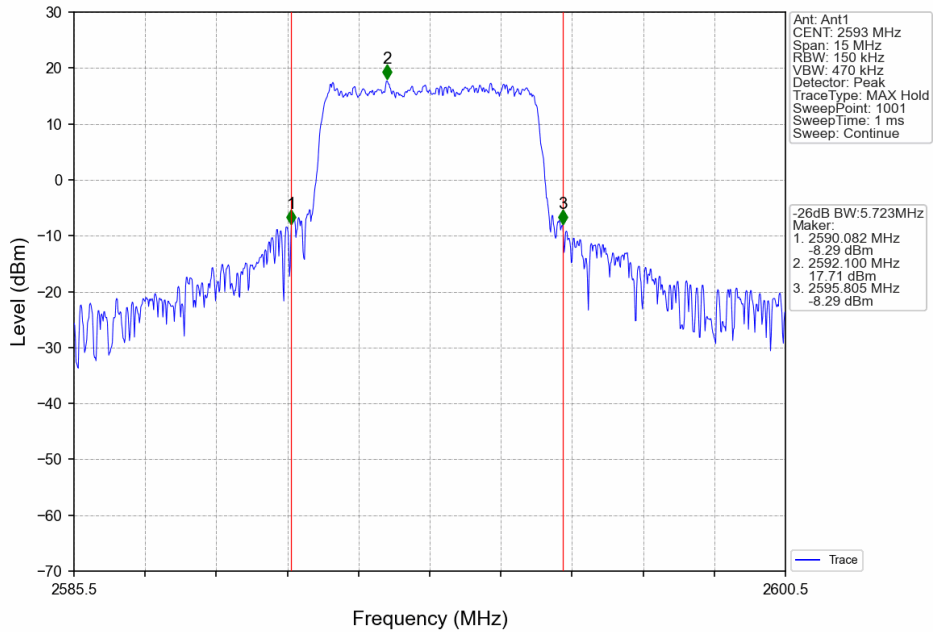
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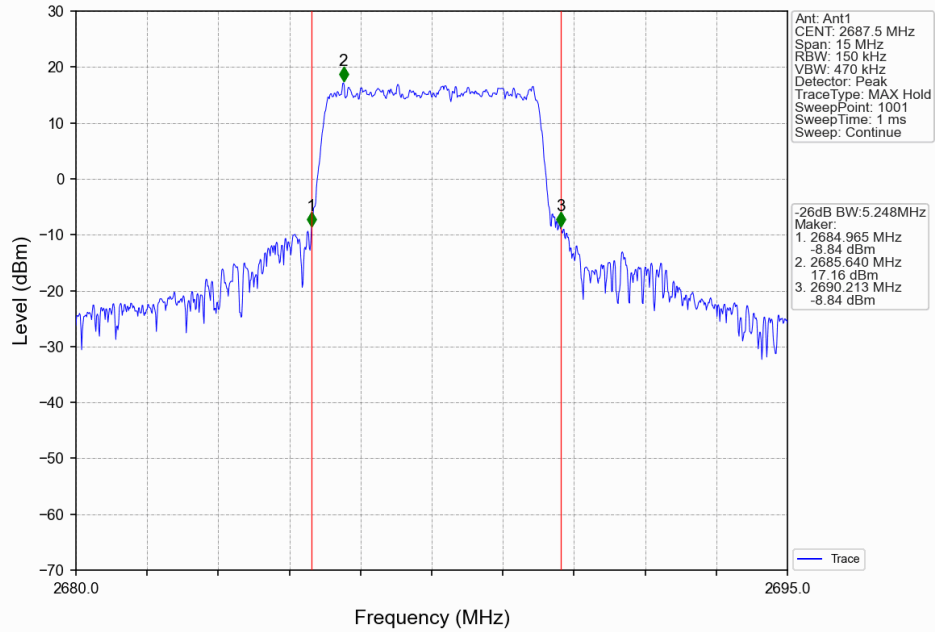
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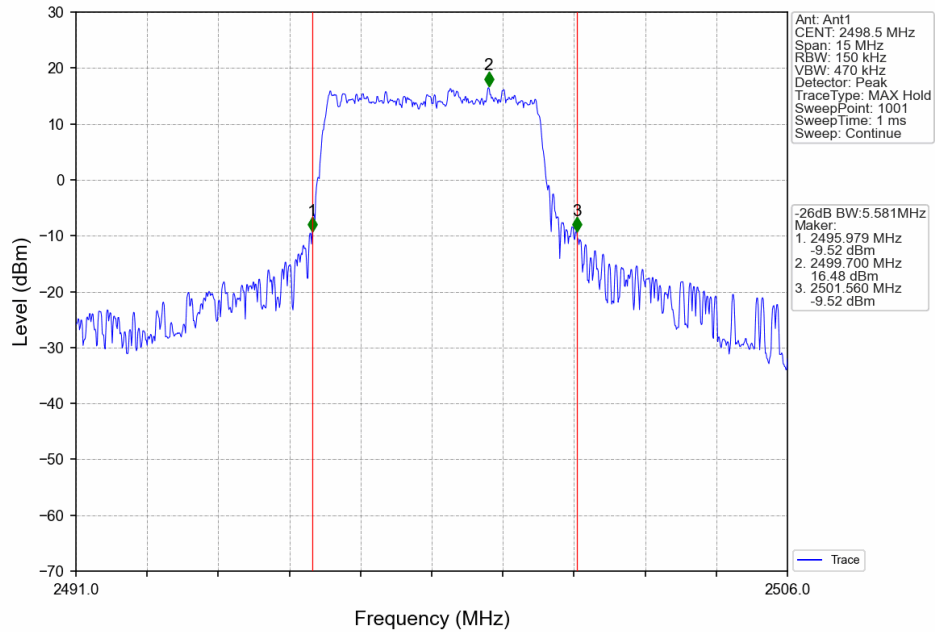
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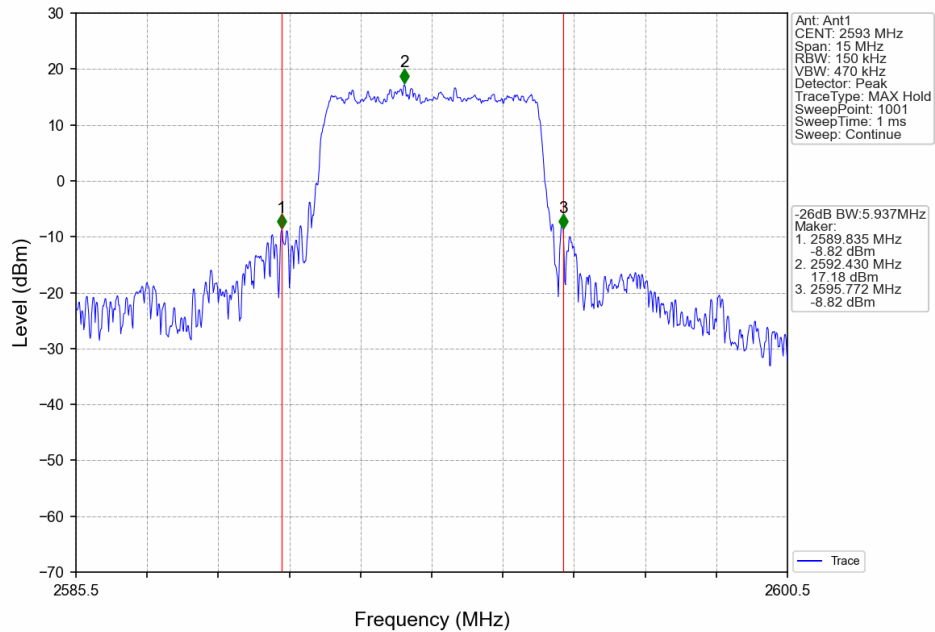
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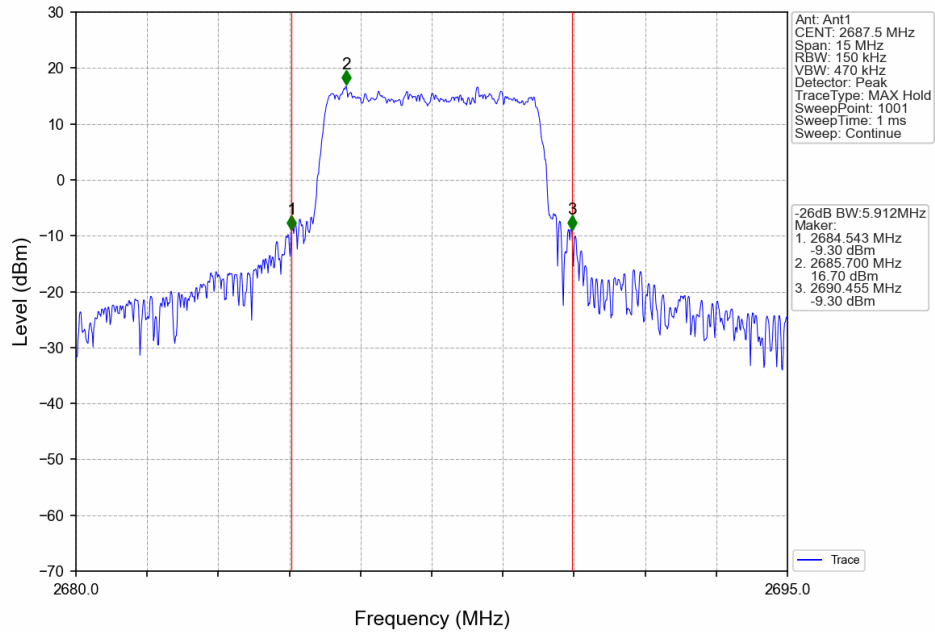
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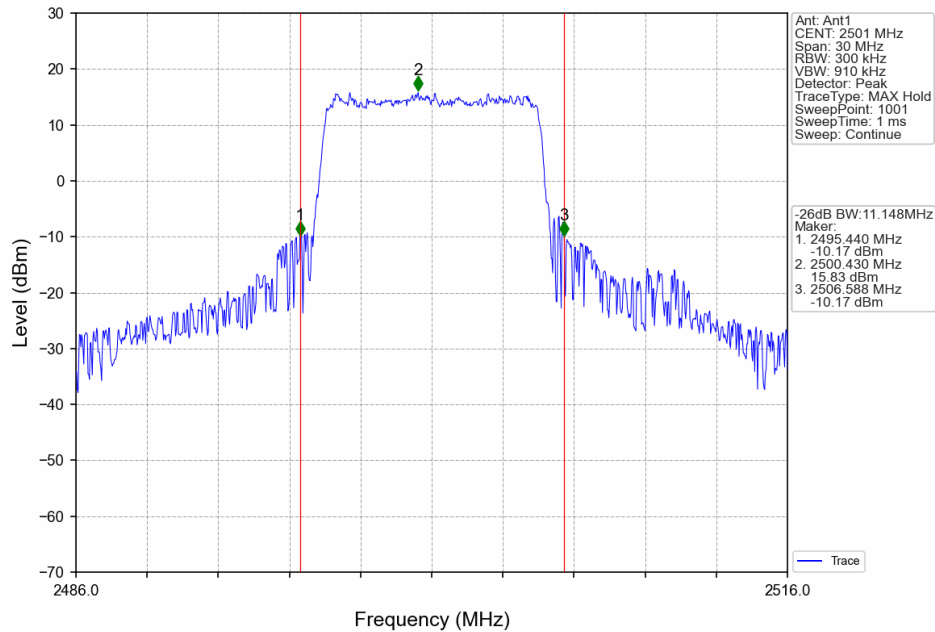
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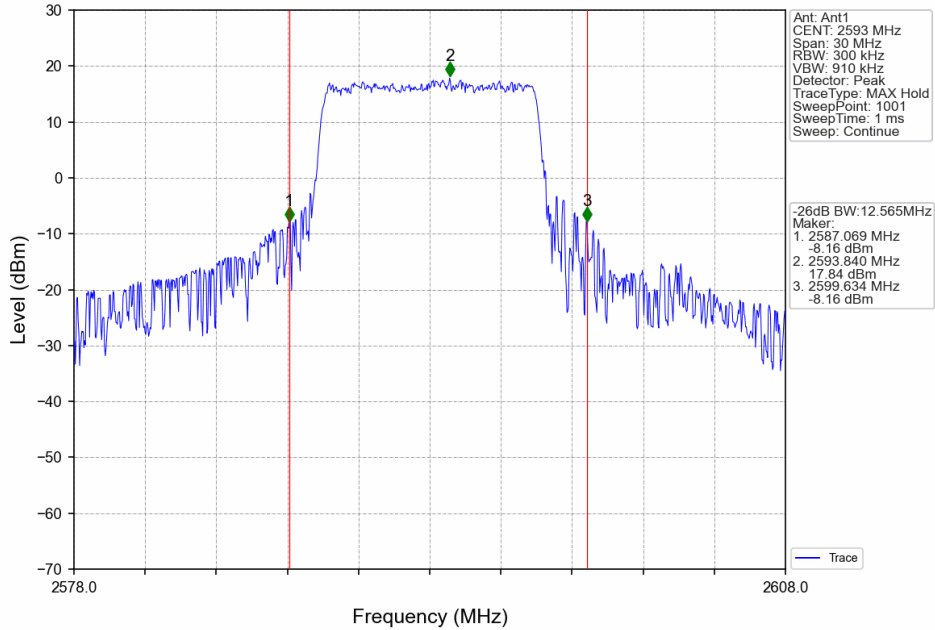
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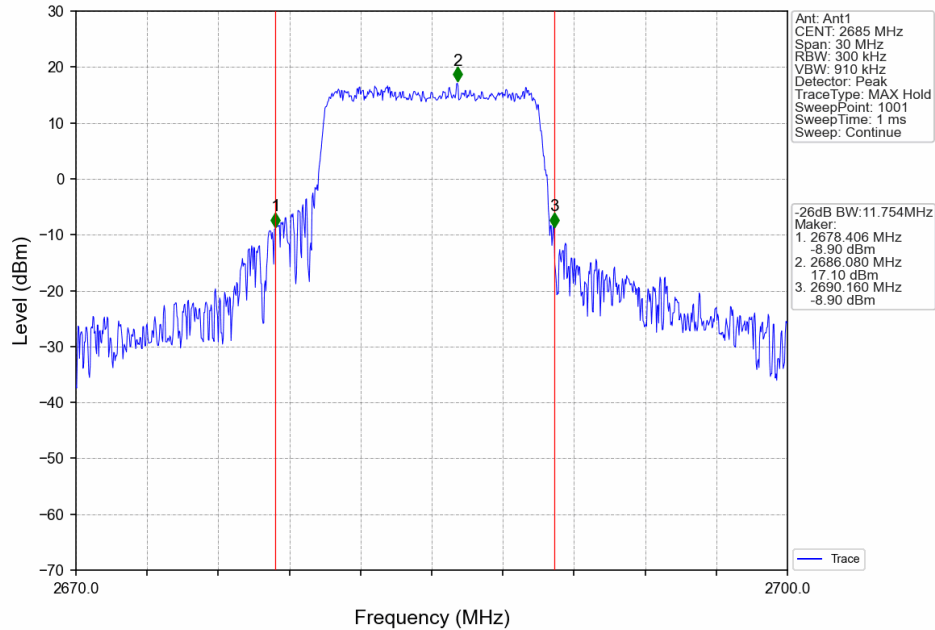
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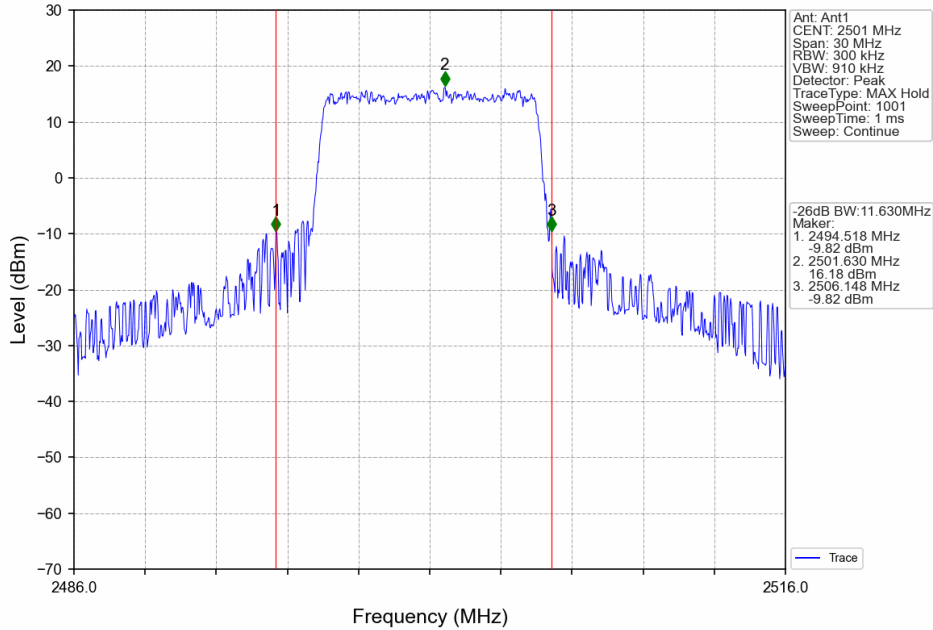
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Band41 10MHz 16QAM LCH 2501MHz RB 50 0 NTN



Band41 10MHz 16QAM MCH 2593MHz RB 50 0 NTN



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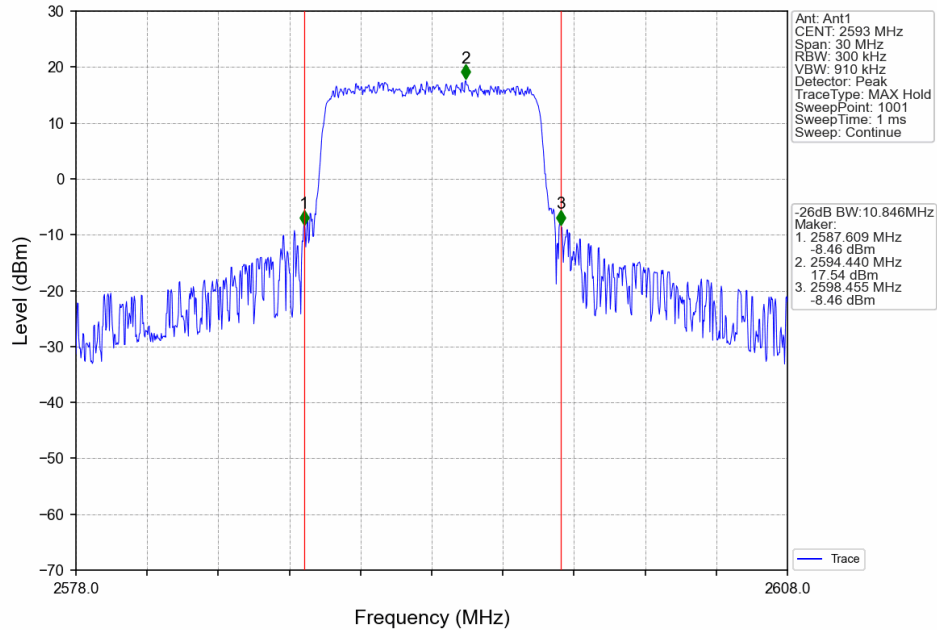
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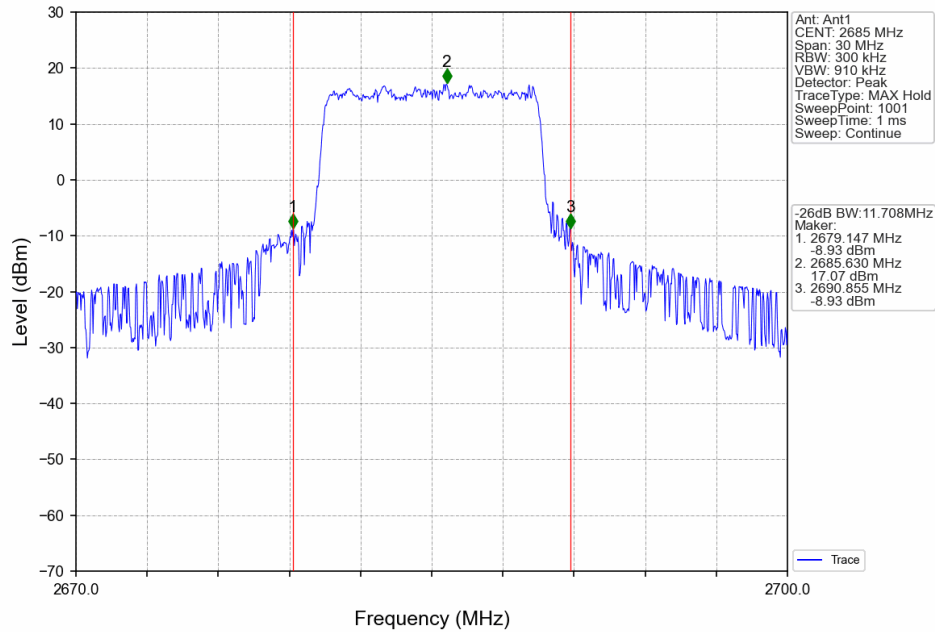
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Band41 10MHz 16QAM HCH 2685MHz RB 50 0 NTNV



Band41 10MHz 64QAM LCH 2501MHz RB 50 0 NTNV



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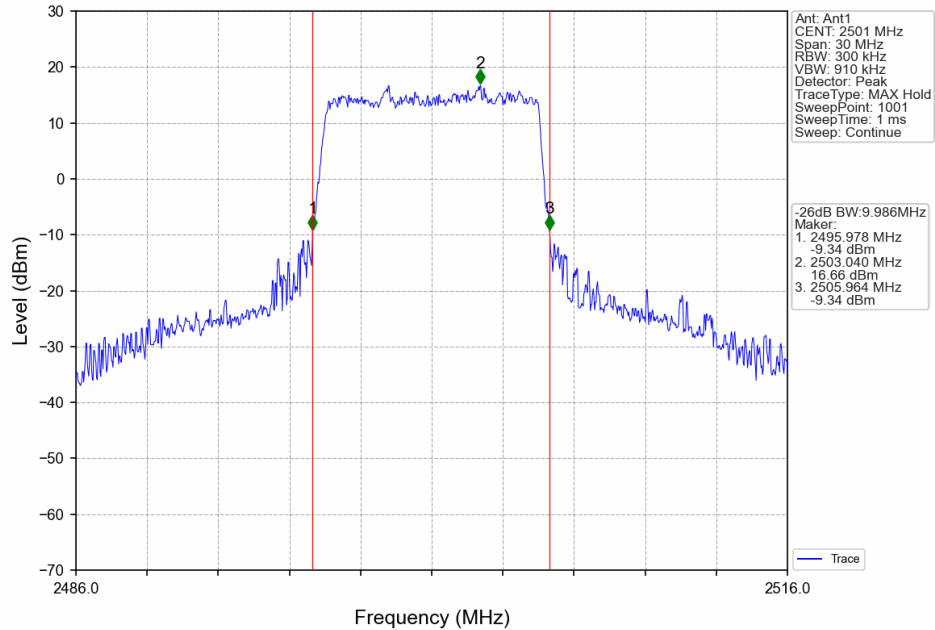
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