

Appendix Test Data for LTE_band_38

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2572.5	1	0	22.87	3.90	26.77	<=33.01	Pass
			13	22.88	3.90	26.78	<=33.01	Pass
			24	22.89	3.90	26.79	<=33.01	Pass
		12	0	21.85	3.90	25.75	<=33.01	Pass
			6	21.81	3.90	25.71	<=33.01	Pass
			13	21.83	3.90	25.73	<=33.01	Pass
		25	0	21.81	3.90	25.71	<=33.01	Pass
	2595	1	0	22.94	3.90	26.84	<=33.01	Pass
			13	22.97	3.90	26.87	<=33.01	Pass
			24	22.98	3.90	26.88	<=33.01	Pass
		12	0	21.94	3.90	25.84	<=33.01	Pass
			6	21.88	3.90	25.78	<=33.01	Pass
			13	21.88	3.90	25.78	<=33.01	Pass
		25	0	21.86	3.90	25.76	<=33.01	Pass
	2617.5	1	0	23.08	3.90	26.98	<=33.01	Pass
			13	23.10	3.90	27.00	<=33.01	Pass
			24	23.29	3.90	27.19	<=33.01	Pass
		12	0	22.08	3.90	25.98	<=33.01	Pass
			6	22.09	3.90	25.99	<=33.01	Pass
			13	22.09	3.90	25.99	<=33.01	Pass
		25	0	22.10	3.90	26.00	<=33.01	Pass
16QAM	2572.5	1	0	22.09	3.90	25.99	<=33.01	Pass
			13	22.14	3.90	26.04	<=33.01	Pass
			24	21.90	3.90	25.80	<=33.01	Pass
		12	0	20.78	3.90	24.68	<=33.01	Pass
			6	20.70	3.90	24.60	<=33.01	Pass
			13	20.70	3.90	24.60	<=33.01	Pass
		25	0	20.79	3.90	24.69	<=33.01	Pass
	2595	1	0	21.90	3.90	25.80	<=33.01	Pass
			13	21.91	3.90	25.81	<=33.01	Pass
			24	22.14	3.90	26.04	<=33.01	Pass
		12	0	20.92	3.90	24.82	<=33.01	Pass
			6	20.89	3.90	24.79	<=33.01	Pass
			13	20.86	3.90	24.76	<=33.01	Pass
		25	0	20.85	3.90	24.75	<=33.01	Pass
	2617.5	1	0	22.08	3.90	25.98	<=33.01	Pass
			13	22.02	3.90	25.92	<=33.01	Pass
			24	21.85	3.90	25.75	<=33.01	Pass
		12	0	21.00	3.90	24.90	<=33.01	Pass
			6	21.08	3.90	24.98	<=33.01	Pass
			13	21.11	3.90	25.01	<=33.01	Pass
		25	0	21.08	3.90	24.98	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2575	1	0	22.79	3.90	26.69	<=33.01	Pass
			25	22.88	3.90	26.78	<=33.01	Pass
			49	22.82	3.90	26.72	<=33.01	Pass
		25	0	21.81	3.90	25.71	<=33.01	Pass
			13	21.87	3.90	25.77	<=33.01	Pass
			25	21.85	3.90	25.75	<=33.01	Pass
		50	0	21.86	3.90	25.76	<=33.01	Pass
	2595	1	0	22.96	3.90	26.86	<=33.01	Pass
			25	22.87	3.90	26.77	<=33.01	Pass
			49	22.86	3.90	26.76	<=33.01	Pass
		25	0	21.90	3.90	25.80	<=33.01	Pass
			13	21.90	3.90	25.80	<=33.01	Pass
			25	21.86	3.90	25.76	<=33.01	Pass
		50	0	21.89	3.90	25.79	<=33.01	Pass
	2615	1	0	23.05	3.90	26.95	<=33.01	Pass
			25	23.17	3.90	27.07	<=33.01	Pass
			49	23.18	3.90	27.08	<=33.01	Pass
		25	0	22.02	3.90	25.92	<=33.01	Pass
			13	22.05	3.90	25.95	<=33.01	Pass
			25	22.10	3.90	26.00	<=33.01	Pass
		50	0	22.01	3.90	25.91	<=33.01	Pass
16QAM	2575	1	0	21.79	3.90	25.69	<=33.01	Pass
			25	21.82	3.90	25.72	<=33.01	Pass
			49	21.60	3.90	25.50	<=33.01	Pass
		25	0	20.80	3.90	24.70	<=33.01	Pass
			13	20.80	3.90	24.70	<=33.01	Pass
			25	20.91	3.90	24.81	<=33.01	Pass
		50	0	20.87	3.90	24.77	<=33.01	Pass
	2595	1	0	21.78	3.90	25.68	<=33.01	Pass
			25	21.78	3.90	25.68	<=33.01	Pass
			49	21.67	3.90	25.57	<=33.01	Pass
		25	0	20.95	3.90	24.85	<=33.01	Pass
			13	20.90	3.90	24.80	<=33.01	Pass
			25	20.89	3.90	24.79	<=33.01	Pass
		50	0	20.83	3.90	24.73	<=33.01	Pass
	2615	1	0	22.10	3.90	26.00	<=33.01	Pass
			25	21.93	3.90	25.83	<=33.01	Pass
			49	22.24	3.90	26.14	<=33.01	Pass
		25	0	21.05	3.90	24.95	<=33.01	Pass
			13	21.06	3.90	24.96	<=33.01	Pass
			25	21.14	3.90	25.04	<=33.01	Pass
		50	0	21.06	3.90	24.96	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2577.5	1	0	22.67	3.90	26.57	<=33.01	Pass
			38	22.78	3.90	26.68	<=33.01	Pass
			74	22.83	3.90	26.73	<=33.01	Pass
		36	0	21.82	3.90	25.72	<=33.01	Pass
			18	21.84	3.90	25.74	<=33.01	Pass
			39	21.86	3.90	25.76	<=33.01	Pass
		75	0	21.88	3.90	25.78	<=33.01	Pass
	2595	1	0	22.78	3.90	26.68	<=33.01	Pass
			38	22.98	3.90	26.88	<=33.01	Pass
			74	22.81	3.90	26.71	<=33.01	Pass
		36	0	21.88	3.90	25.78	<=33.01	Pass
			18	21.88	3.90	25.78	<=33.01	Pass
			39	21.87	3.90	25.77	<=33.01	Pass
		75	0	21.85	3.90	25.75	<=33.01	Pass
	2612.5	1	0	22.96	3.90	26.86	<=33.01	Pass
			38	23.17	3.90	27.07	<=33.01	Pass
			74	23.22	3.90	27.12	<=33.01	Pass
		36	0	21.90	3.90	25.80	<=33.01	Pass
			18	21.96	3.90	25.86	<=33.01	Pass
			39	22.01	3.90	25.91	<=33.01	Pass
		75	0	21.98	3.90	25.88	<=33.01	Pass
16QAM	2577.5	1	0	21.81	3.90	25.71	<=33.01	Pass
			38	21.64	3.90	25.54	<=33.01	Pass
			74	21.79	3.90	25.69	<=33.01	Pass
		36	0	20.85	3.90	24.75	<=33.01	Pass
			18	20.91	3.90	24.81	<=33.01	Pass
			39	20.85	3.90	24.75	<=33.01	Pass
		75	0	20.90	3.90	24.80	<=33.01	Pass
	2595	1	0	21.71	3.90	25.61	<=33.01	Pass
			38	21.80	3.90	25.70	<=33.01	Pass
			74	21.75	3.90	25.65	<=33.01	Pass
		36	0	20.87	3.90	24.77	<=33.01	Pass
			18	20.88	3.90	24.78	<=33.01	Pass
			39	20.91	3.90	24.81	<=33.01	Pass
		75	0	20.84	3.90	24.74	<=33.01	Pass
	2612.5	1	0	22.02	3.90	25.92	<=33.01	Pass
			38	22.11	3.90	26.01	<=33.01	Pass
			74	22.21	3.90	26.11	<=33.01	Pass
		36	0	20.92	3.90	24.82	<=33.01	Pass
			18	21.00	3.90	24.90	<=33.01	Pass
			39	21.02	3.90	24.92	<=33.01	Pass
		75	0	20.95	3.90	24.85	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B38_20MHz_EIRP

Band: 38 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2580	1	0	22.63	3.90	26.53	<=33.01	Pass
			50	22.95	3.90	26.85	<=33.01	Pass
			99	22.95	3.90	26.85	<=33.01	Pass
		50	0	21.85	3.90	25.75	<=33.01	Pass
			25	21.92	3.90	25.82	<=33.01	Pass
			50	21.98	3.90	25.88	<=33.01	Pass
		100	0	21.85	3.90	25.75	<=33.01	Pass
	2595	1	0	22.82	3.90	26.72	<=33.01	Pass
			50	22.84	3.90	26.74	<=33.01	Pass
			99	22.94	3.90	26.84	<=33.01	Pass
		50	0	21.88	3.90	25.78	<=33.01	Pass
			25	21.94	3.90	25.84	<=33.01	Pass
			50	21.97	3.90	25.87	<=33.01	Pass
		100	0	21.87	3.90	25.77	<=33.01	Pass
	2610	1	0	22.79	3.90	26.69	<=33.01	Pass
			50	23.03	3.90	26.93	<=33.01	Pass
			99	23.07	3.90	26.97	<=33.01	Pass
		50	0	21.91	3.90	25.81	<=33.01	Pass
			25	21.99	3.90	25.89	<=33.01	Pass
			50	22.07	3.90	25.97	<=33.01	Pass
		100	0	21.97	3.90	25.87	<=33.01	Pass
16QAM	2580	1	0	21.85	3.90	25.75	<=33.01	Pass
			50	22.03	3.90	25.93	<=33.01	Pass
			99	22.06	3.90	25.96	<=33.01	Pass
		50	0	20.86	3.90	24.76	<=33.01	Pass
			25	20.95	3.90	24.85	<=33.01	Pass
			50	20.93	3.90	24.83	<=33.01	Pass
		100	0	20.91	3.90	24.81	<=33.01	Pass
	2595	1	0	21.93	3.90	25.83	<=33.01	Pass
			50	21.65	3.90	25.55	<=33.01	Pass
			99	21.61	3.90	25.51	<=33.01	Pass
		50	0	20.85	3.90	24.75	<=33.01	Pass
			25	20.95	3.90	24.85	<=33.01	Pass
			50	20.89	3.90	24.79	<=33.01	Pass
		100	0	20.91	3.90	24.81	<=33.01	Pass
	2610	1	0	22.03	3.90	25.93	<=33.01	Pass
			50	21.94	3.90	25.84	<=33.01	Pass
			99	21.98	3.90	25.88	<=33.01	Pass
		50	0	20.90	3.90	24.80	<=33.01	Pass
			25	20.99	3.90	24.89	<=33.01	Pass
			50	21.08	3.90	24.98	<=33.01	Pass
		100	0	20.98	3.90	24.88	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2572.5	25	0	20	102	-9.642	-0.0037	-2.5 to 2.5	Pass
					120	-19.369	-0.0075	-2.5 to 2.5	Pass
					138	-5.364	-0.0021	-2.5 to 2.5	Pass
				-30	120	-23.060	-0.0090	-2.5 to 2.5	Pass
				-20	120	-20.571	-0.0080	-2.5 to 2.5	Pass
				-10	120	-26.751	-0.0104	-2.5 to 2.5	Pass
				0	120	-25.806	-0.0100	-2.5 to 2.5	Pass
				10	120	-4.449	-0.0017	-2.5 to 2.5	Pass
				30	120	-14.820	-0.0058	-2.5 to 2.5	Pass
				40	120	-4.635	-0.0018	-2.5 to 2.5	Pass
				50	120	-9.599	-0.0037	-2.5 to 2.5	Pass
	2595	25	0	20	102	-9.284	-0.0036	-2.5 to 2.5	Pass
					120	5.236	0.0020	-2.5 to 2.5	Pass
					138	14.091	0.0054	-2.5 to 2.5	Pass
				-30	120	-0.086	0.0000	-2.5 to 2.5	Pass
				-20	120	7.567	0.0029	-2.5 to 2.5	Pass
				-10	120	8.984	0.0035	-2.5 to 2.5	Pass
				0	120	11.144	0.0043	-2.5 to 2.5	Pass
				10	120	7.095	0.0027	-2.5 to 2.5	Pass
				30	120	11.201	0.0043	-2.5 to 2.5	Pass
				40	120	11.945	0.0046	-2.5 to 2.5	Pass
				50	120	-1.159	-0.0004	-2.5 to 2.5	Pass
	2617.5	25	0	20	102	11.358	0.0043	-2.5 to 2.5	Pass
					120	-1.359	-0.0005	-2.5 to 2.5	Pass
					138	1.588	0.0006	-2.5 to 2.5	Pass
				-30	120	1.774	0.0007	-2.5 to 2.5	Pass
				-20	120	1.559	0.0006	-2.5 to 2.5	Pass
				-10	120	-2.031	-0.0008	-2.5 to 2.5	Pass
				0	120	11.816	0.0045	-2.5 to 2.5	Pass
				10	120	1.273	0.0005	-2.5 to 2.5	Pass
				30	120	1.760	0.0007	-2.5 to 2.5	Pass
				40	120	-2.789	-0.0011	-2.5 to 2.5	Pass
16QAM	2572.5	25	0	20	102	-3.591	-0.0014	-2.5 to 2.5	Pass
					120	11.859	0.0046	-2.5 to 2.5	Pass
					138	8.554	0.0033	-2.5 to 2.5	Pass
				-30	120	17.996	0.0070	-2.5 to 2.5	Pass
				-20	120	-0.386	-0.0002	-2.5 to 2.5	Pass
				-10	120	14.777	0.0057	-2.5 to 2.5	Pass
				0	120	5.107	0.0020	-2.5 to 2.5	Pass
				10	120	21.257	0.0083	-2.5 to 2.5	Pass
				30	120	29.325	0.0114	-2.5 to 2.5	Pass
				40	120	16.623	0.0065	-2.5 to 2.5	Pass
				50	120	18.253	0.0071	-2.5 to 2.5	Pass
	2595	25	0	20	102	5.493	0.0021	-2.5 to 2.5	Pass
					120	1.130	0.0004	-2.5 to 2.5	Pass
					138	-3.462	-0.0013	-2.5 to 2.5	Pass
				-30	120	14.305	0.0055	-2.5 to 2.5	Pass
				-20	120	2.246	0.0009	-2.5 to 2.5	Pass
				-10	120	-5.779	-0.0022	-2.5 to 2.5	Pass

				0	120	13.890	0.0054	-2.5 to 2.5	Pass
				10	120	12.403	0.0048	-2.5 to 2.5	Pass
				30	120	10.085	0.0039	-2.5 to 2.5	Pass
				40	120	-3.018	-0.0012	-2.5 to 2.5	Pass
				50	120	9.756	0.0038	-2.5 to 2.5	Pass
	2617.5	25	0	20	102	14.777	0.0056	-2.5 to 2.5	Pass
					120	-6.008	-0.0023	-2.5 to 2.5	Pass
					138	-2.747	-0.0010	-2.5 to 2.5	Pass
				-30	120	2.275	0.0009	-2.5 to 2.5	Pass
				-20	120	0.758	0.0003	-2.5 to 2.5	Pass
				-10	120	-0.343	-0.0001	-2.5 to 2.5	Pass
				0	120	1.402	0.0005	-2.5 to 2.5	Pass
				10	120	-0.687	-0.0003	-2.5 to 2.5	Pass
				30	120	2.847	0.0011	-2.5 to 2.5	Pass
				40	120	3.390	0.0013	-2.5 to 2.5	Pass
				50	120	-6.523	-0.0025	-2.5 to 2.5	Pass

2.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2575	50	0	20	102	-0.944	-0.0004	-2.5 to 2.5	Pass
					120	-2.203	-0.0009	-2.5 to 2.5	Pass
					138	0.443	0.0002	-2.5 to 2.5	Pass
				-30	120	-2.775	-0.0011	-2.5 to 2.5	Pass
				-20	120	17.996	0.0070	-2.5 to 2.5	Pass
				-10	120	9.155	0.0036	-2.5 to 2.5	Pass
				0	120	5.937	0.0023	-2.5 to 2.5	Pass
				10	120	4.821	0.0019	-2.5 to 2.5	Pass
				30	120	4.377	0.0017	-2.5 to 2.5	Pass
				40	120	8.011	0.0031	-2.5 to 2.5	Pass
	2595	50	0	20	102	3.419	0.0013	-2.5 to 2.5	Pass
					102	1.659	0.0006	-2.5 to 2.5	Pass
					120	5.021	0.0019	-2.5 to 2.5	Pass
				-30	138	2.732	0.0011	-2.5 to 2.5	Pass
					120	1.516	0.0006	-2.5 to 2.5	Pass
					120	-0.973	-0.0004	-2.5 to 2.5	Pass
				-20	120	6.137	0.0024	-2.5 to 2.5	Pass
				-10	120	2.303	0.0009	-2.5 to 2.5	Pass
				0	120	7.396	0.0029	-2.5 to 2.5	Pass
				10	120	7.424	0.0029	-2.5 to 2.5	Pass
	2615	50	0	20	120	2.003	0.0008	-2.5 to 2.5	Pass
					120	4.692	0.0018	-2.5 to 2.5	Pass
					102	-5.450	-0.0021	-2.5 to 2.5	Pass
				-30	120	3.290	0.0013	-2.5 to 2.5	Pass
					138	2.832	0.0011	-2.5 to 2.5	Pass
					120	-4.935	-0.0019	-2.5 to 2.5	Pass
				-20	120	-4.148	-0.0016	-2.5 to 2.5	Pass
				-10	120	4.478	0.0017	-2.5 to 2.5	Pass
				0	120	9.499	0.0036	-2.5 to 2.5	Pass
				10	120	8.540	0.0033	-2.5 to 2.5	Pass
16QAM	2575	50	0	20	120	7.210	0.0028	-2.5 to 2.5	Pass
					40	9.384	0.0036	-2.5 to 2.5	Pass
					120	1.802	0.0007	-2.5 to 2.5	Pass
	2575	50	0	20	102	4.377	0.0017	-2.5 to 2.5	Pass
					120	-3.161	-0.0012	-2.5 to 2.5	Pass
					138	8.340	0.0032	-2.5 to 2.5	Pass

				-30	120	2.375	0.0009	-2.5 to 2.5	Pass
				-20	120	-1.216	-0.0005	-2.5 to 2.5	Pass
				-10	120	0.372	0.0001	-2.5 to 2.5	Pass
				0	120	-1.330	-0.0005	-2.5 to 2.5	Pass
				10	120	0.715	0.0003	-2.5 to 2.5	Pass
				30	120	13.819	0.0054	-2.5 to 2.5	Pass
				40	120	8.211	0.0032	-2.5 to 2.5	Pass
				50	120	-1.287	-0.0005	-2.5 to 2.5	Pass
	2595	50	0	20	102	8.612	0.0033	-2.5 to 2.5	Pass
					120	5.722	0.0022	-2.5 to 2.5	Pass
					138	5.236	0.0020	-2.5 to 2.5	Pass
				-30	120	4.377	0.0017	-2.5 to 2.5	Pass
				-20	120	12.031	0.0046	-2.5 to 2.5	Pass
				-10	120	10.514	0.0041	-2.5 to 2.5	Pass
				0	120	1.259	0.0005	-2.5 to 2.5	Pass
				10	120	6.881	0.0027	-2.5 to 2.5	Pass
				30	120	7.153	0.0028	-2.5 to 2.5	Pass
				40	120	7.339	0.0028	-2.5 to 2.5	Pass
				50	120	-4.292	-0.0017	-2.5 to 2.5	Pass
	2615	50	0	20	102	1.531	0.0006	-2.5 to 2.5	Pass
					120	5.522	0.0021	-2.5 to 2.5	Pass
					138	6.108	0.0023	-2.5 to 2.5	Pass
				-30	120	3.204	0.0012	-2.5 to 2.5	Pass
				-20	120	4.749	0.0018	-2.5 to 2.5	Pass
				-10	120	1.287	0.0005	-2.5 to 2.5	Pass
				0	120	-2.103	-0.0008	-2.5 to 2.5	Pass
				10	120	6.824	0.0026	-2.5 to 2.5	Pass
				30	120	5.164	0.0020	-2.5 to 2.5	Pass
				40	120	-5.965	-0.0023	-2.5 to 2.5	Pass
				50	120	7.796	0.0030	-2.5 to 2.5	Pass

2.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2577.5	75	0	20	102	-1.059	-0.0004	-2.5 to 2.5	Pass
					120	-0.358	-0.0001	-2.5 to 2.5	Pass
					138	5.422	0.0021	-2.5 to 2.5	Pass
				-30	120	3.633	0.0014	-2.5 to 2.5	Pass
				-20	120	2.804	0.0011	-2.5 to 2.5	Pass
				-10	120	1.717	0.0007	-2.5 to 2.5	Pass
				0	120	20.313	0.0079	-2.5 to 2.5	Pass
				10	120	6.423	0.0025	-2.5 to 2.5	Pass
				30	120	0.057	0.0000	-2.5 to 2.5	Pass
				40	120	-0.901	-0.0003	-2.5 to 2.5	Pass
				50	120	-1.674	-0.0006	-2.5 to 2.5	Pass
	2595	75	0	20	102	11.072	0.0043	-2.5 to 2.5	Pass
					120	8.969	0.0035	-2.5 to 2.5	Pass
					138	2.532	0.0010	-2.5 to 2.5	Pass
				-30	120	1.588	0.0006	-2.5 to 2.5	Pass
				-20	120	3.047	0.0012	-2.5 to 2.5	Pass
				-10	120	4.520	0.0017	-2.5 to 2.5	Pass
				0	120	8.383	0.0032	-2.5 to 2.5	Pass
				10	120	5.922	0.0023	-2.5 to 2.5	Pass
				30	120	5.579	0.0021	-2.5 to 2.5	Pass
				40	120	2.918	0.0011	-2.5 to 2.5	Pass
				50	120	4.892	0.0019	-2.5 to 2.5	Pass

	2612.5	75	0	20	102	5.980	0.0023	-2.5 to 2.5	Pass
					120	5.665	0.0022	-2.5 to 2.5	Pass
					138	-2.475	-0.0009	-2.5 to 2.5	Pass
				-30	120	4.778	0.0018	-2.5 to 2.5	Pass
				-20	120	7.553	0.0029	-2.5 to 2.5	Pass
				-10	120	3.476	0.0013	-2.5 to 2.5	Pass
				0	120	-2.761	-0.0011	-2.5 to 2.5	Pass
				10	120	-2.031	-0.0008	-2.5 to 2.5	Pass
				30	120	3.648	0.0014	-2.5 to 2.5	Pass
				40	120	4.992	0.0019	-2.5 to 2.5	Pass
				50	120	9.284	0.0036	-2.5 to 2.5	Pass
16QAM	2577.5	75	0	20	102	4.706	0.0018	-2.5 to 2.5	Pass
					120	8.941	0.0035	-2.5 to 2.5	Pass
					138	5.107	0.0020	-2.5 to 2.5	Pass
				-30	120	4.334	0.0017	-2.5 to 2.5	Pass
				-20	120	4.292	0.0017	-2.5 to 2.5	Pass
				-10	120	-0.701	-0.0003	-2.5 to 2.5	Pass
				0	120	0.229	0.0001	-2.5 to 2.5	Pass
				10	120	6.008	0.0023	-2.5 to 2.5	Pass
				30	120	5.050	0.0020	-2.5 to 2.5	Pass
				40	120	4.935	0.0019	-2.5 to 2.5	Pass
				50	120	6.166	0.0024	-2.5 to 2.5	Pass
	2595	75	0	20	102	0.958	0.0004	-2.5 to 2.5	Pass
					120	6.738	0.0026	-2.5 to 2.5	Pass
					138	8.984	0.0035	-2.5 to 2.5	Pass
				-30	120	1.431	0.0006	-2.5 to 2.5	Pass
				-20	120	6.781	0.0026	-2.5 to 2.5	Pass
				-10	120	4.921	0.0019	-2.5 to 2.5	Pass
				0	120	1.502	0.0006	-2.5 to 2.5	Pass
				10	120	4.206	0.0016	-2.5 to 2.5	Pass
				30	120	4.821	0.0019	-2.5 to 2.5	Pass
				40	120	5.722	0.0022	-2.5 to 2.5	Pass
				50	120	4.392	0.0017	-2.5 to 2.5	Pass
	2612.5	75	0	20	102	6.251	0.0024	-2.5 to 2.5	Pass
					120	3.119	0.0012	-2.5 to 2.5	Pass
					138	4.764	0.0018	-2.5 to 2.5	Pass
				-30	120	1.931	0.0007	-2.5 to 2.5	Pass
				-20	120	4.349	0.0017	-2.5 to 2.5	Pass
				-10	120	4.020	0.0015	-2.5 to 2.5	Pass
				0	120	2.418	0.0009	-2.5 to 2.5	Pass
				10	120	-3.576	-0.0014	-2.5 to 2.5	Pass
				30	120	4.821	0.0018	-2.5 to 2.5	Pass
				40	120	6.437	0.0025	-2.5 to 2.5	Pass
				50	120	1.416	0.0005	-2.5 to 2.5	Pass

2.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2580	100	0	20	102	3.161	0.0012	-2.5 to 2.5	Pass
					120	-1.602	-0.0006	-2.5 to 2.5	Pass
					138	4.549	0.0018	-2.5 to 2.5	Pass
				-30	120	2.418	0.0009	-2.5 to 2.5	Pass
				-20	120	4.277	0.0017	-2.5 to 2.5	Pass
				-10	120	5.636	0.0022	-2.5 to 2.5	Pass
				0	120	5.908	0.0023	-2.5 to 2.5	Pass
				10	120	1.888	0.0007	-2.5 to 2.5	Pass

				30	120	4.606	0.0018	-2.5 to 2.5	Pass
				40	120	3.405	0.0013	-2.5 to 2.5	Pass
				50	120	1.745	0.0007	-2.5 to 2.5	Pass
	2595	100	0	20	102	3.247	0.0013	-2.5 to 2.5	Pass
					120	3.977	0.0015	-2.5 to 2.5	Pass
					138	1.903	0.0007	-2.5 to 2.5	Pass
				-30	120	7.339	0.0028	-2.5 to 2.5	Pass
				-20	120	3.304	0.0013	-2.5 to 2.5	Pass
				-10	120	7.610	0.0029	-2.5 to 2.5	Pass
				0	120	-1.087	-0.0004	-2.5 to 2.5	Pass
				10	120	2.832	0.0011	-2.5 to 2.5	Pass
				30	120	8.526	0.0033	-2.5 to 2.5	Pass
				40	120	11.802	0.0045	-2.5 to 2.5	Pass
				50	120	2.174	0.0008	-2.5 to 2.5	Pass
	2610	100	0	20	102	3.705	0.0014	-2.5 to 2.5	Pass
					120	0.658	0.0003	-2.5 to 2.5	Pass
					138	3.104	0.0012	-2.5 to 2.5	Pass
				-30	120	8.955	0.0034	-2.5 to 2.5	Pass
				-20	120	6.580	0.0025	-2.5 to 2.5	Pass
				-10	120	7.181	0.0028	-2.5 to 2.5	Pass
				0	120	2.089	0.0008	-2.5 to 2.5	Pass
				10	120	1.130	0.0004	-2.5 to 2.5	Pass
				30	120	2.947	0.0011	-2.5 to 2.5	Pass
				40	120	0.100	0.0000	-2.5 to 2.5	Pass
				50	120	3.533	0.0014	-2.5 to 2.5	Pass
16QAM	2580	100	0	20	102	-0.100	0.0000	-2.5 to 2.5	Pass
					120	4.649	0.0018	-2.5 to 2.5	Pass
					138	-0.172	-0.0001	-2.5 to 2.5	Pass
				-30	120	0.257	0.0001	-2.5 to 2.5	Pass
				-20	120	5.708	0.0022	-2.5 to 2.5	Pass
				-10	120	-5.078	-0.0020	-2.5 to 2.5	Pass
				0	120	1.731	0.0007	-2.5 to 2.5	Pass
				10	120	0.243	0.0001	-2.5 to 2.5	Pass
				30	120	-0.200	-0.0001	-2.5 to 2.5	Pass
				40	120	-0.801	-0.0003	-2.5 to 2.5	Pass
				50	120	0.572	0.0002	-2.5 to 2.5	Pass
	2595	100	0	20	102	6.094	0.0023	-2.5 to 2.5	Pass
					120	7.567	0.0029	-2.5 to 2.5	Pass
					138	2.489	0.0010	-2.5 to 2.5	Pass
				-30	120	2.146	0.0008	-2.5 to 2.5	Pass
				-20	120	0.672	0.0003	-2.5 to 2.5	Pass
				-10	120	4.206	0.0016	-2.5 to 2.5	Pass
				0	120	4.091	0.0016	-2.5 to 2.5	Pass
				10	120	5.493	0.0021	-2.5 to 2.5	Pass
				30	120	1.273	0.0005	-2.5 to 2.5	Pass
				40	120	4.449	0.0017	-2.5 to 2.5	Pass
				50	120	2.317	0.0009	-2.5 to 2.5	Pass
	2610	100	0	20	102	3.090	0.0012	-2.5 to 2.5	Pass
					120	3.862	0.0015	-2.5 to 2.5	Pass
					138	4.034	0.0015	-2.5 to 2.5	Pass
				-30	120	11.745	0.0045	-2.5 to 2.5	Pass
				-20	120	1.388	0.0005	-2.5 to 2.5	Pass
				-10	120	1.917	0.0007	-2.5 to 2.5	Pass
				0	120	2.189	0.0008	-2.5 to 2.5	Pass
				10	120	4.578	0.0018	-2.5 to 2.5	Pass
				30	120	6.895	0.0026	-2.5 to 2.5	Pass
				40	120	-1.631	-0.0006	-2.5 to 2.5	Pass
				50	120	4.134	0.0016	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	25	0	Refer To Test Graph		Pass
16QAM	2595	25	0	Refer To Test Graph		Pass

3.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	50	0	Refer To Test Graph		Pass
16QAM	2595	50	0	Refer To Test Graph		Pass

3.1.3 B38_15MHz

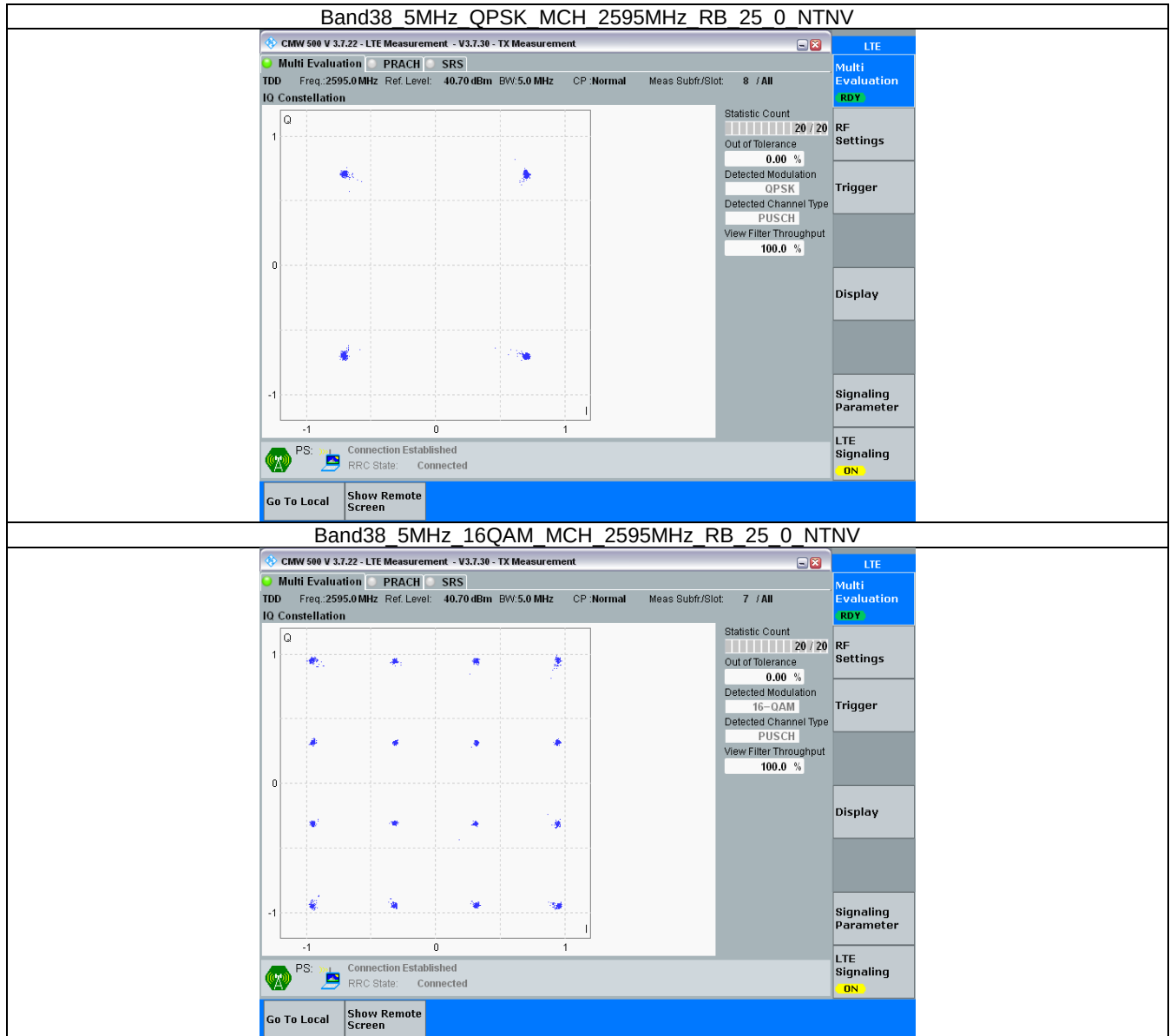
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	75	0	Refer To Test Graph		Pass
16QAM	2595	75	0	Refer To Test Graph		Pass

3.1.4 B38_20MHz

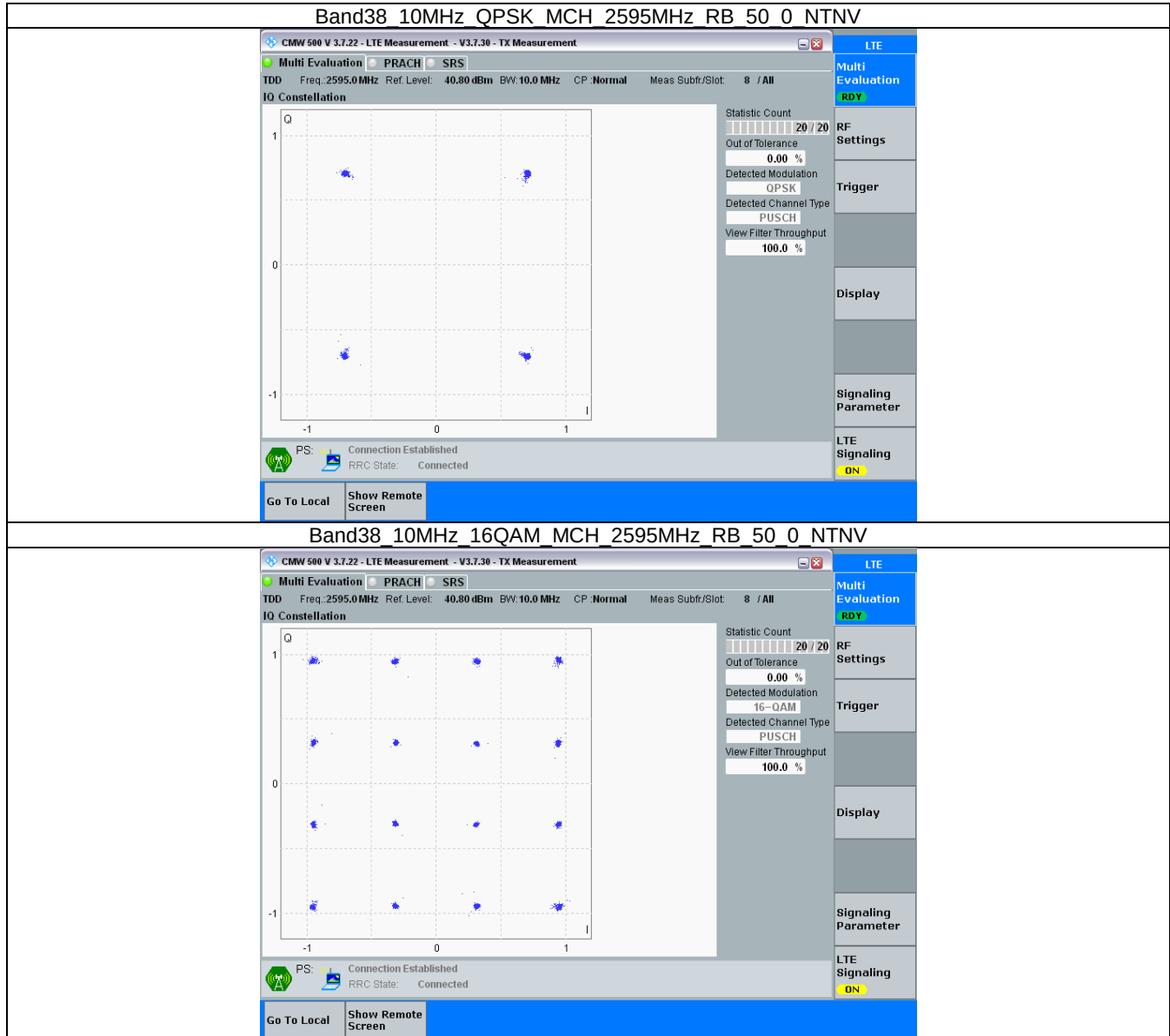
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	Refer To Test Graph		Pass
16QAM	2595	100	0	Refer To Test Graph		Pass

3.2 Test Graph

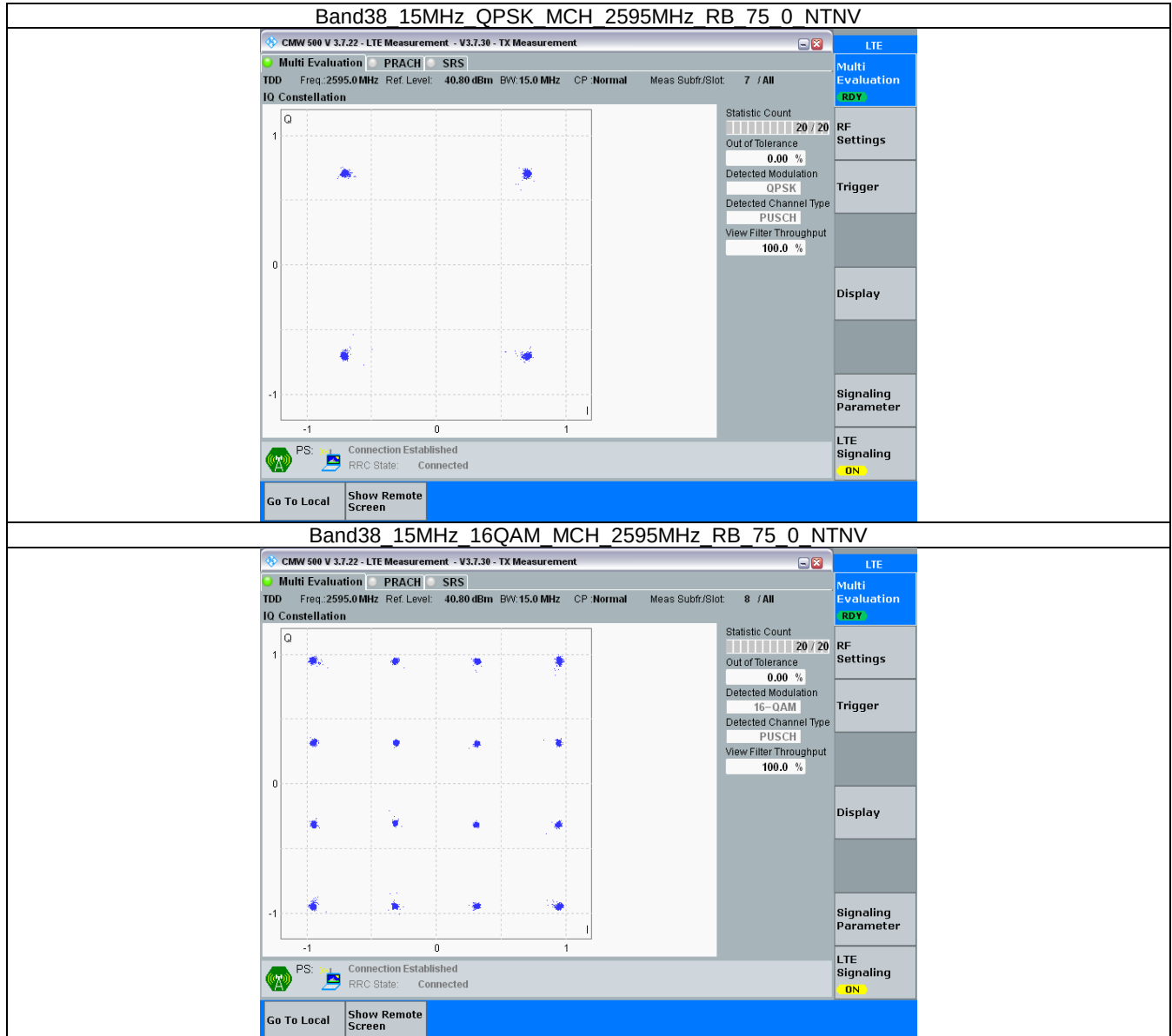
3.2.1 B38_5MHz



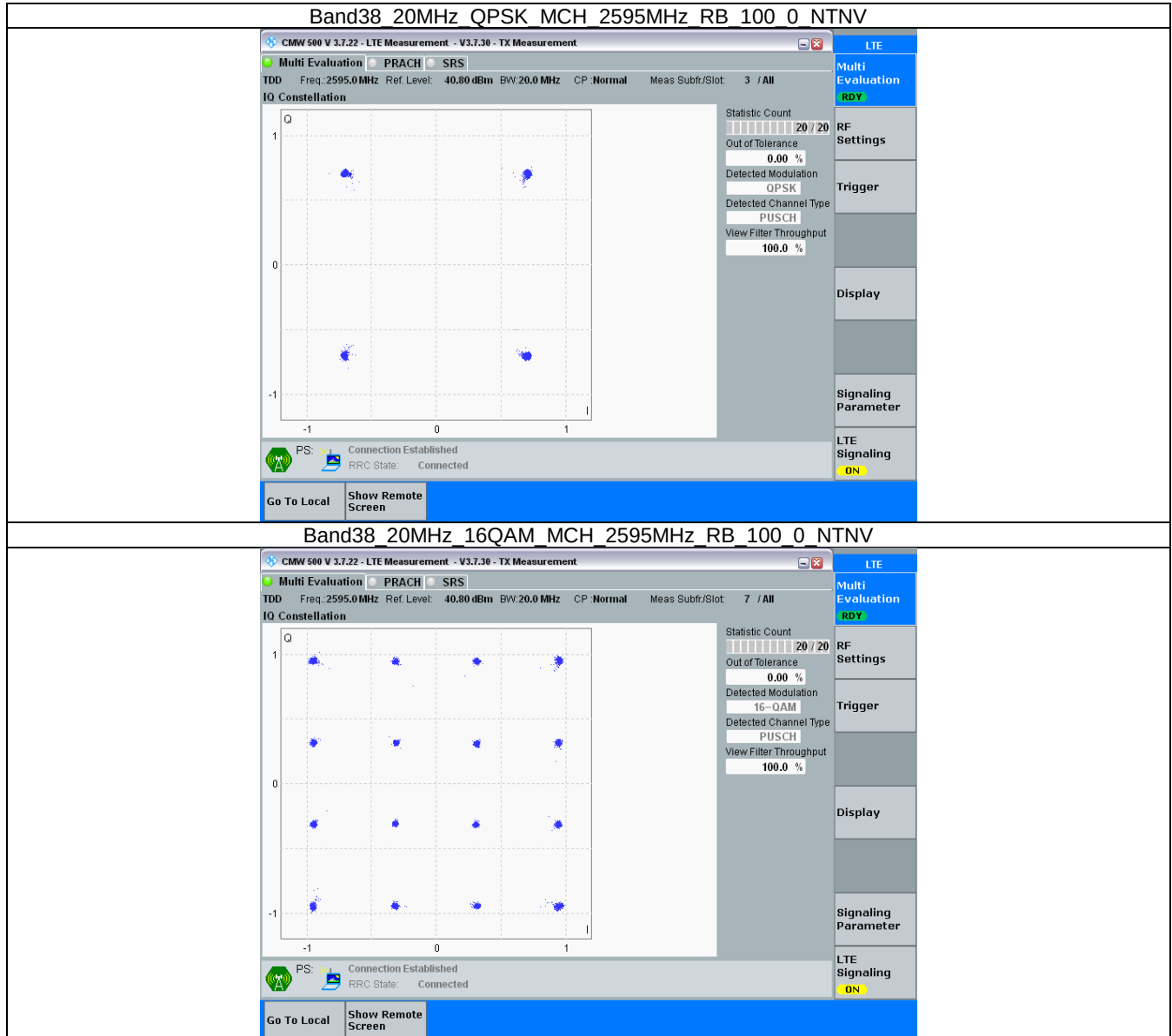
3.2.2 B38_10MHz



3.2.3 B38_15MHz



3.2.4 B38_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band38_OBW

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	4.559	/	Pass
		2595	25	0	4.558	/	Pass
		2617.5	25	0	4.549	/	Pass
	16QAM	2572.5	25	0	4.540	/	Pass
		2595	25	0	4.563	/	Pass
		2617.5	25	0	4.551	/	Pass
10	QPSK	2575	50	0	9.066	/	Pass
		2595	50	0	9.064	/	Pass
		2615	50	0	9.068	/	Pass
	16QAM	2575	50	0	9.097	/	Pass
		2595	50	0	9.067	/	Pass
		2615	50	0	9.091	/	Pass
15	QPSK	2577.5	75	0	13.564	/	Pass
		2595	75	0	13.572	/	Pass
		2612.5	75	0	13.620	/	Pass
	16QAM	2577.5	75	0	13.632	/	Pass
		2595	75	0	13.570	/	Pass
		2612.5	75	0	13.666	/	Pass
20	QPSK	2580	100	0	18.112	/	Pass
		2595	100	0	18.092	/	Pass
		2610	100	0	18.070	/	Pass
	16QAM	2580	100	0	18.132	/	Pass
		2595	100	0	18.120	/	Pass
		2610	100	0	18.111	/	Pass

4.1.2 Band38_XDB

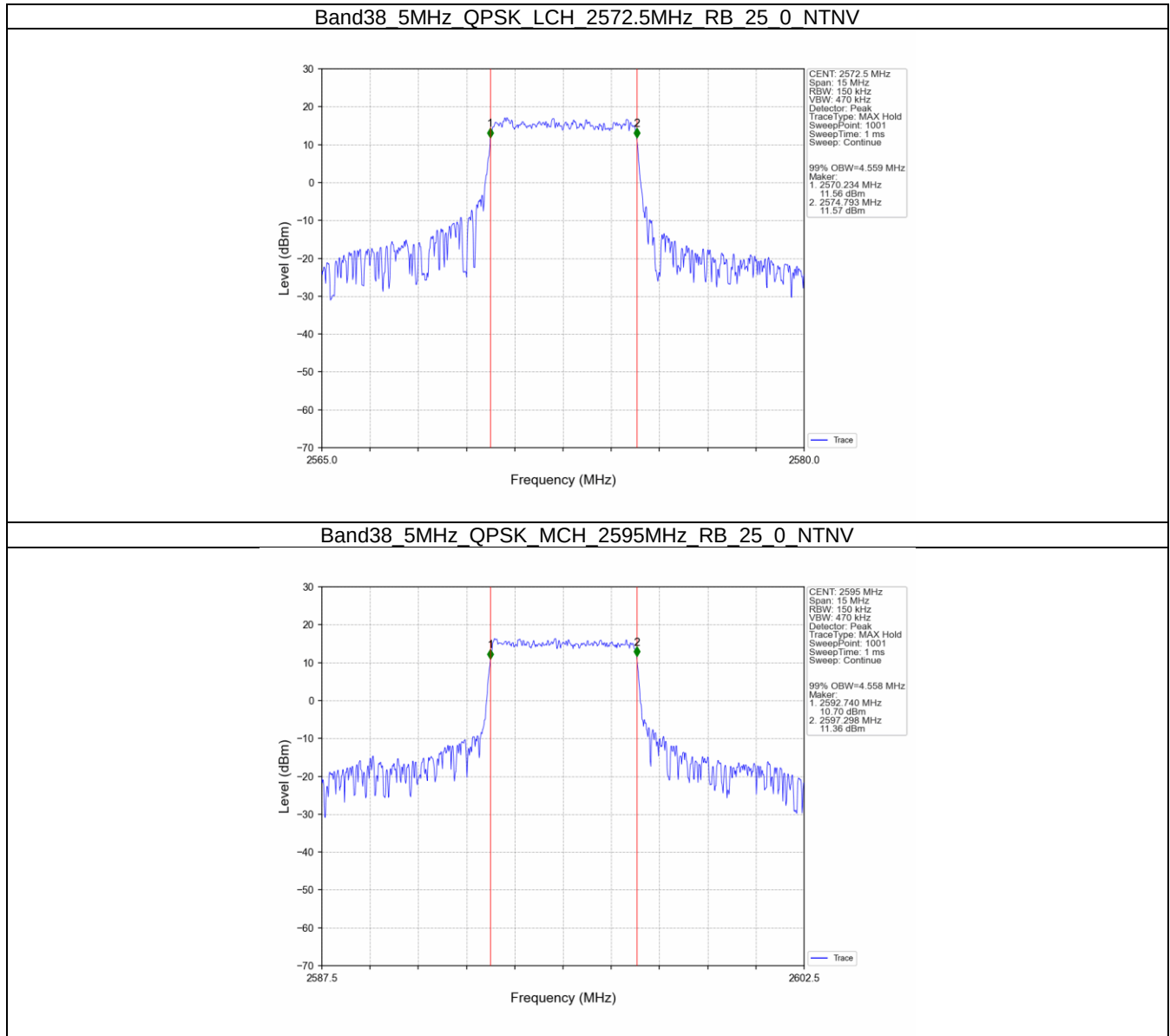
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2572.5	25	0	5.469	/	Pass
		2595	25	0	5.942	/	Pass
		2617.5	25	0	5.175	/	Pass
	16QAM	2572.5	25	0	5.204	/	Pass
		2595	25	0	5.113	/	Pass
		2617.5	25	0	5.175	/	Pass
10	QPSK	2575	50	0	10.466	/	Pass
		2595	50	0	11.568	/	Pass
		2615	50	0	10.507	/	Pass
	16QAM	2575	50	0	11.615	/	Pass
		2595	50	0	11.354	/	Pass
		2615	50	0	10.190	/	Pass
15	QPSK	2577.5	75	0	15.998	/	Pass
		2595	75	0	15.365	/	Pass
		2612.5	75	0	15.207	/	Pass
	16QAM	2577.5	75	0	16.002	/	Pass
		2595	75	0	15.308	/	Pass
		2612.5	75	0	15.777	/	Pass
20	QPSK	2580	100	0	21.596	/	Pass



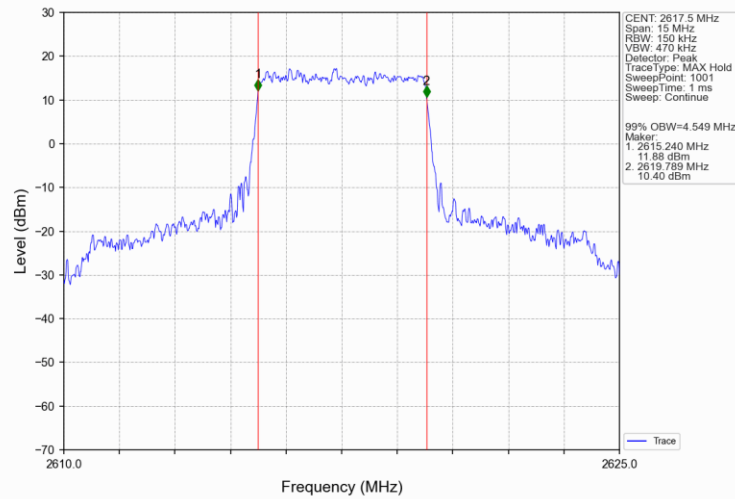
		2595	100	0	20.723	/	Pass
		2610	100	0	19.904	/	Pass
	16QAM	2580	100	0	21.344	/	Pass
		2595	100	0	22.782	/	Pass
		2610	100	0	20.174	/	Pass

4.2 Test Graph

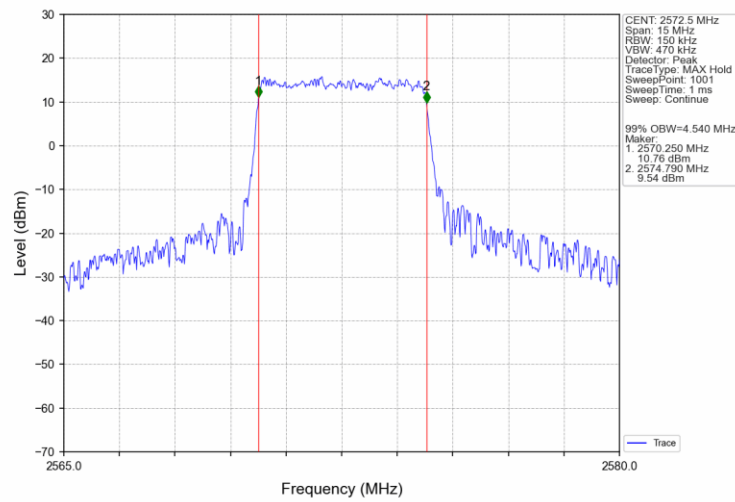
4.2.1 Band38_OBW



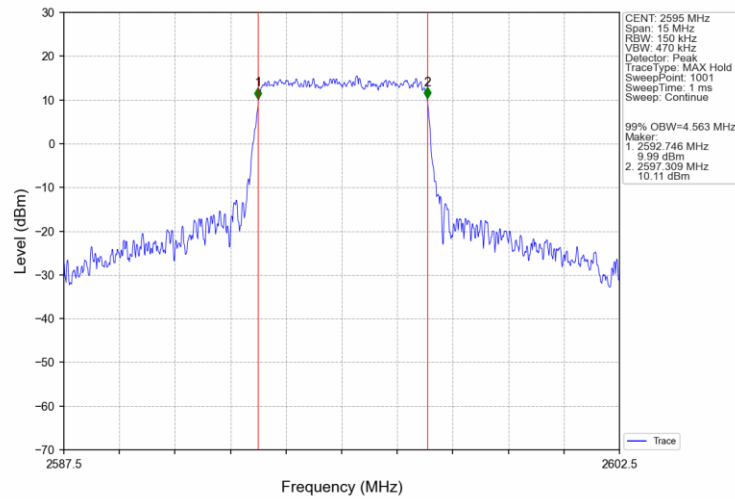
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



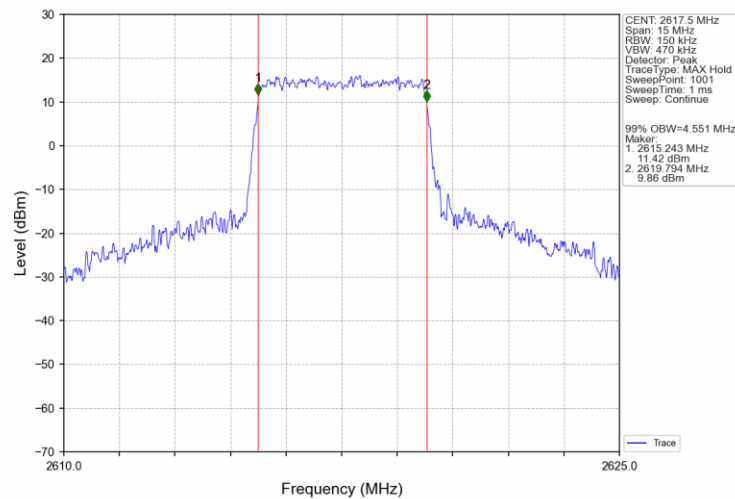
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV



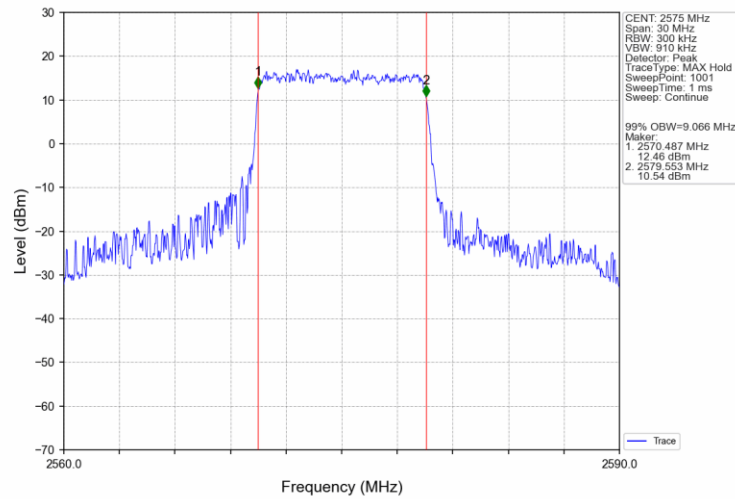
Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTNV



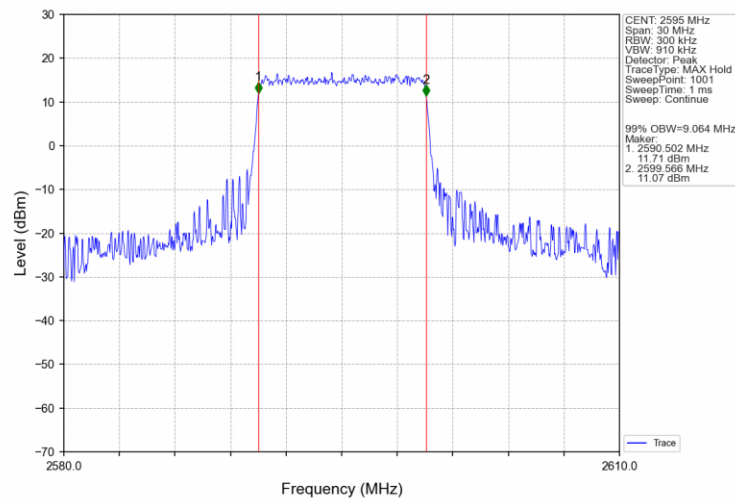
Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTNV



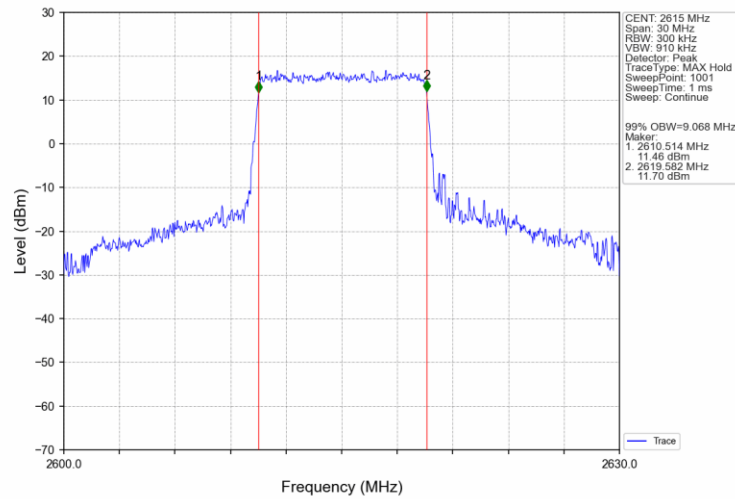
Band38 10MHz QPSK LCH 2575MHz RB 50 0 NTV



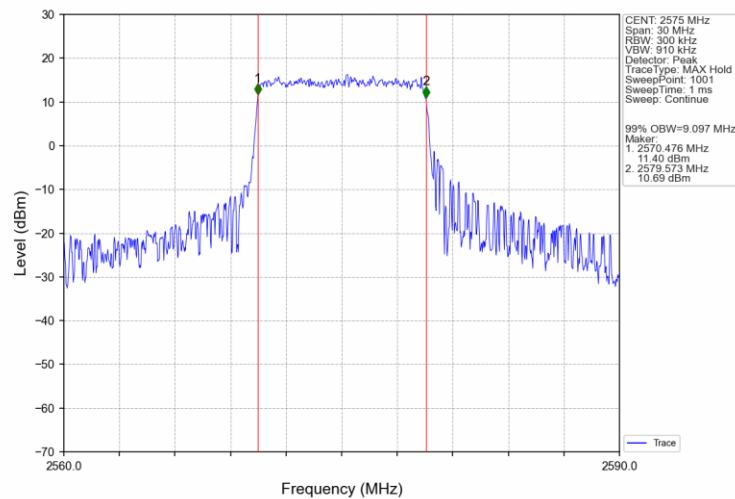
Band38 10MHz QPSK MCH 2595MHz RB 50 0 NTV



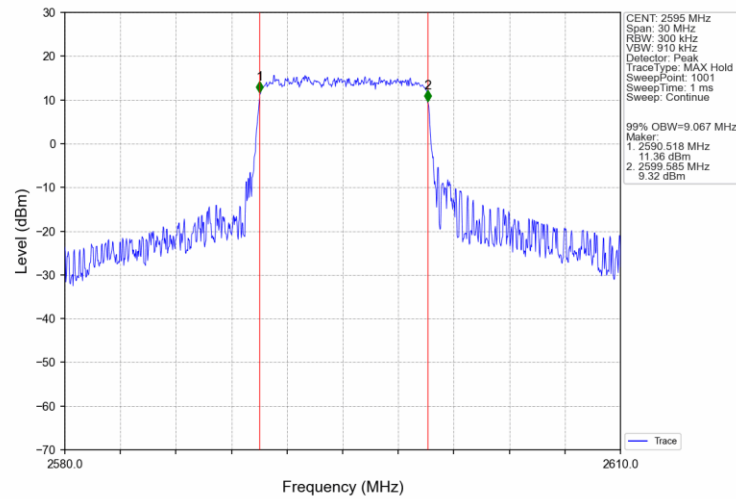
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



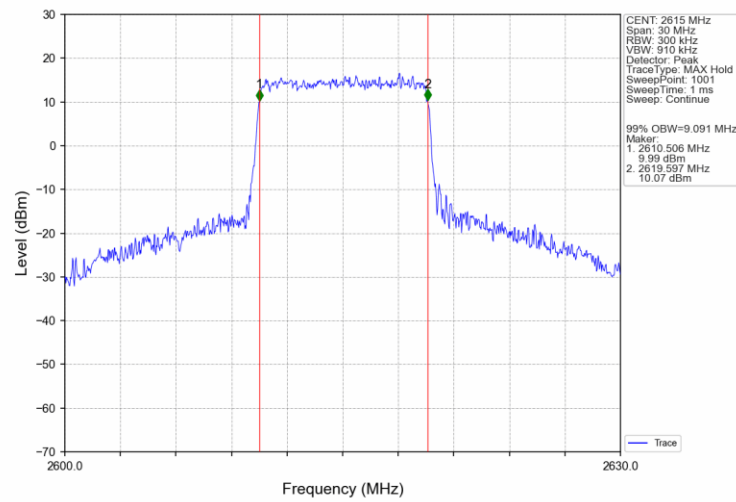
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



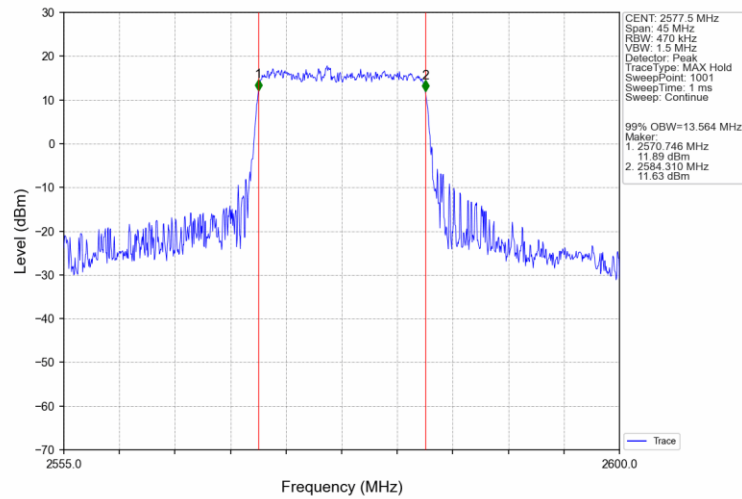
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN



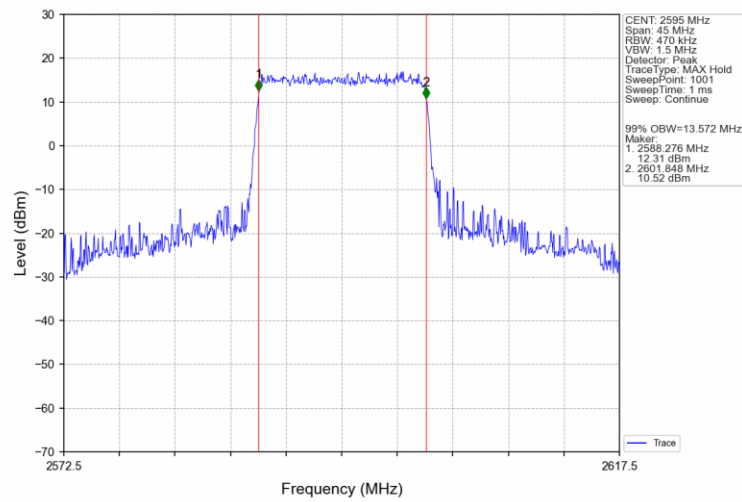
Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN



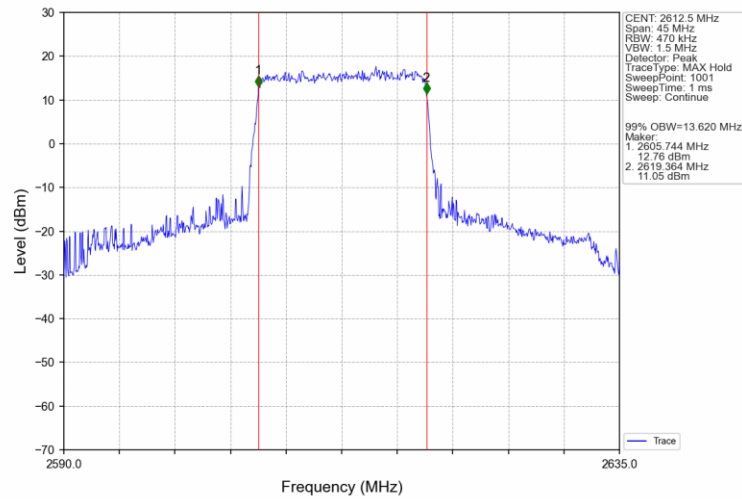
Band38 15MHz QPSK LCH 2577.5MHz RB 75 0 NTN



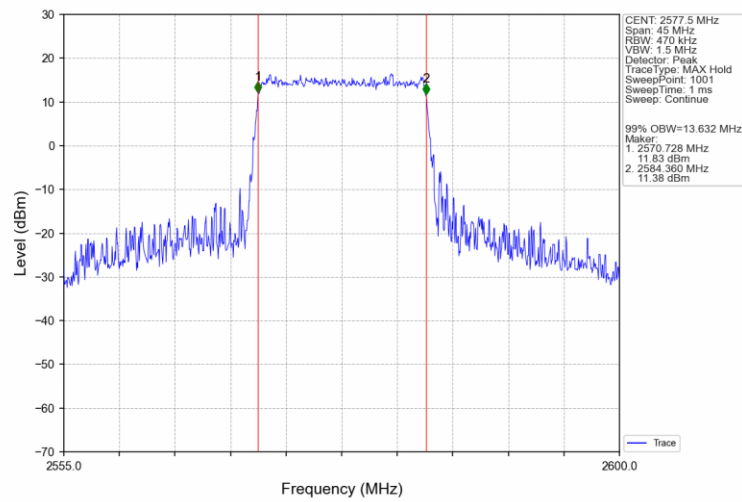
Band38 15MHz QPSK MCH 2595MHz RB 75 0 NTN



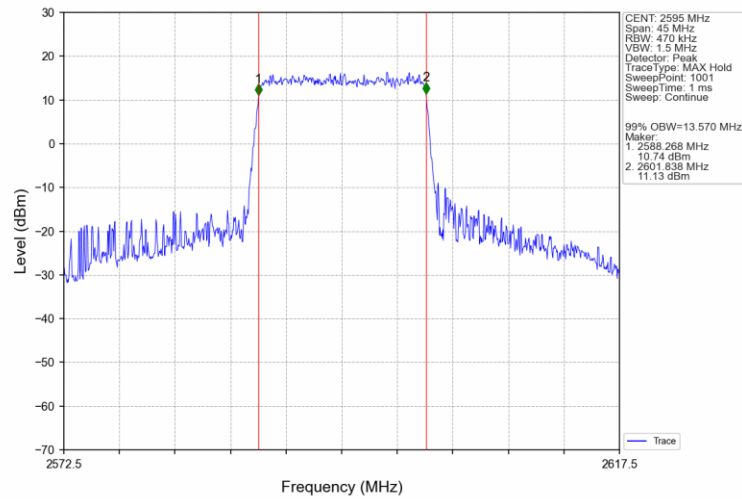
Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTN



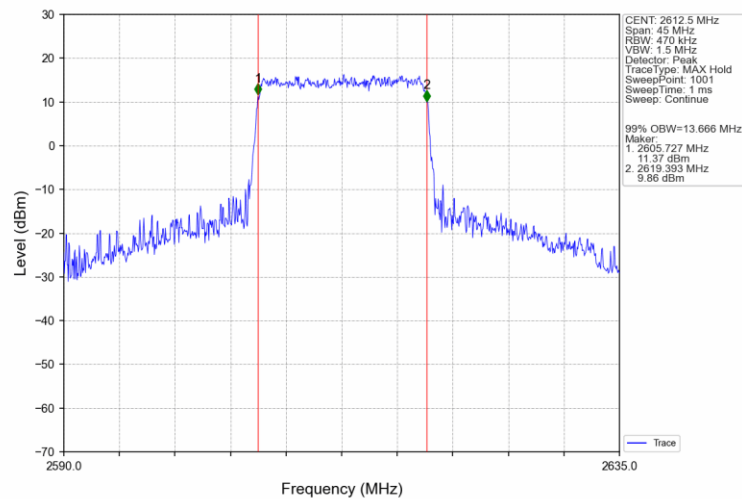
Band38 15MHz 16QAM LCH 2577.5MHz RB 75 0 NTN



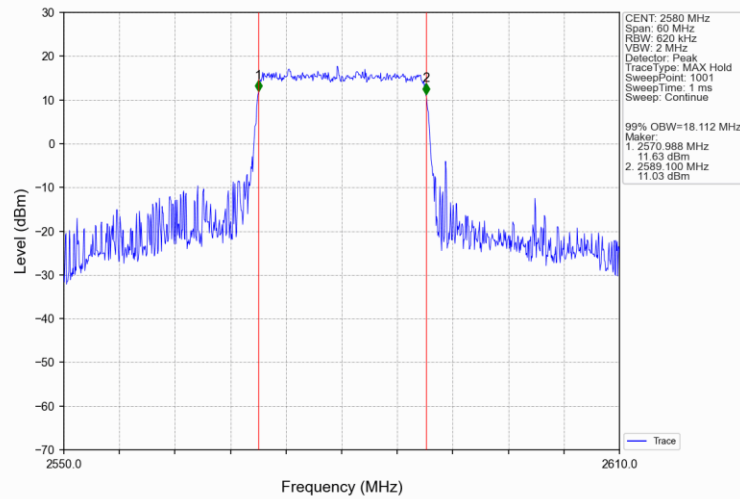
Band38 15MHz 16QAM MCH 2595MHz RB 75 0 NTN



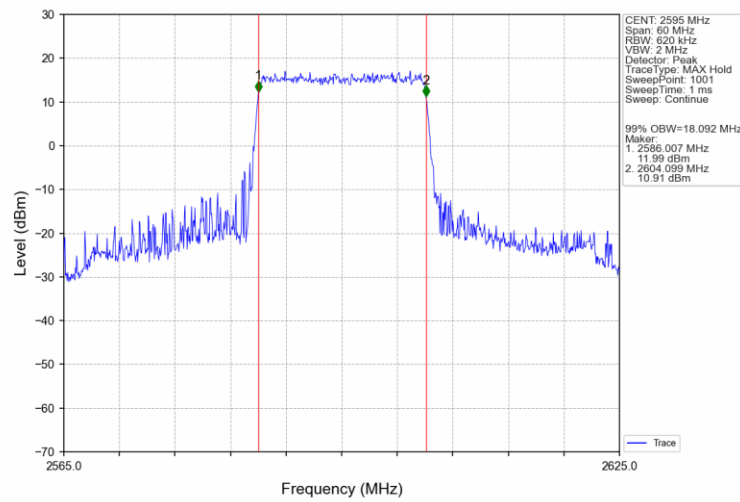
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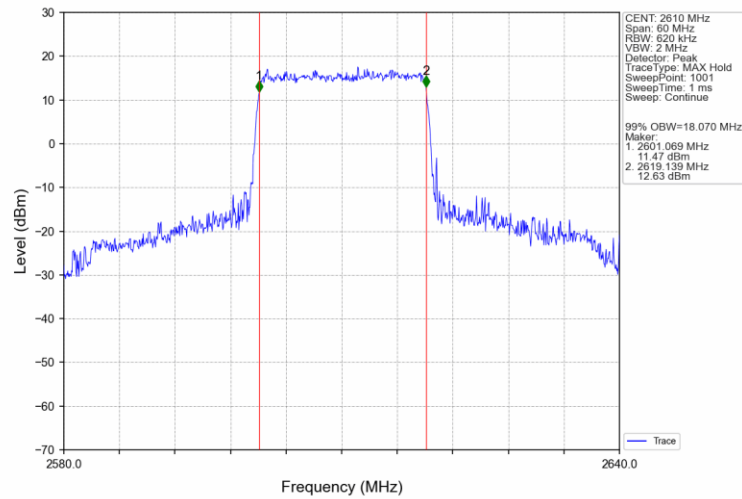
Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTNV



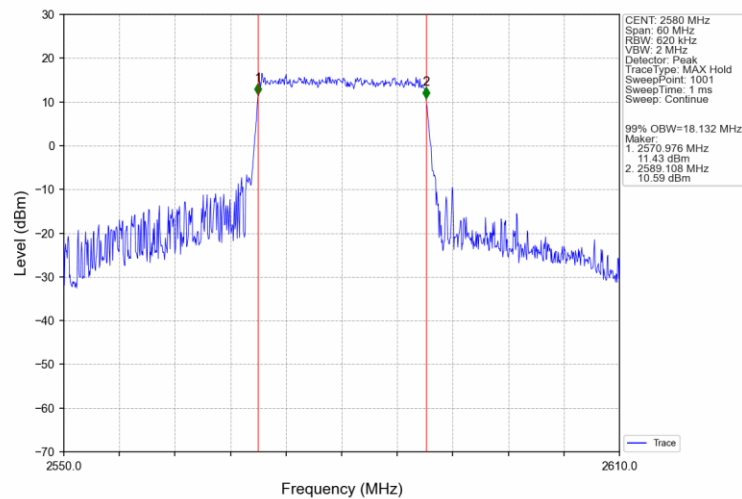
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV



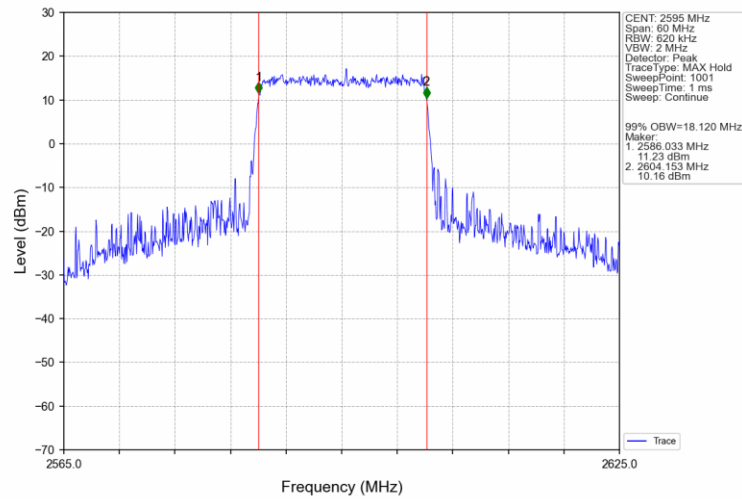
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



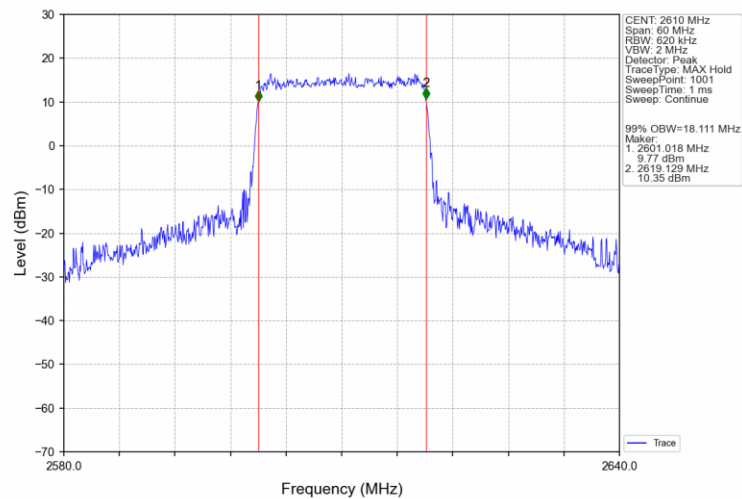
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

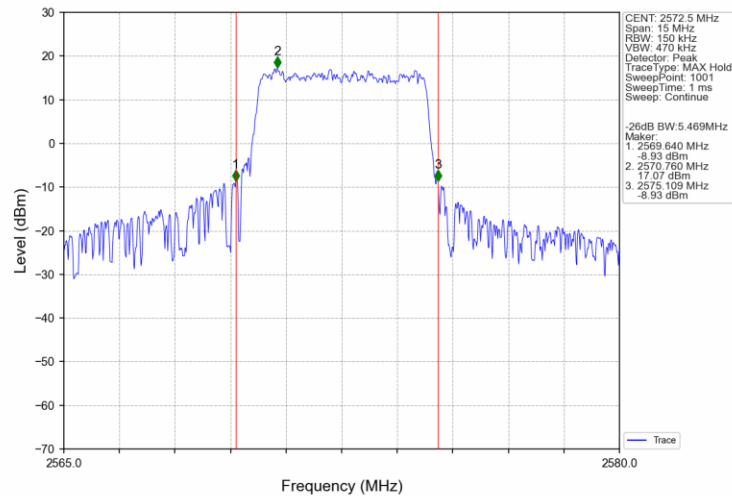


Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV

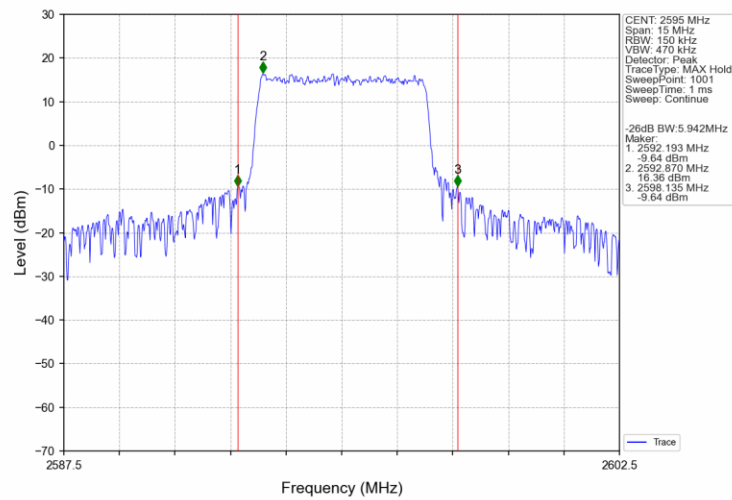


4.2.2 Band38_XDB

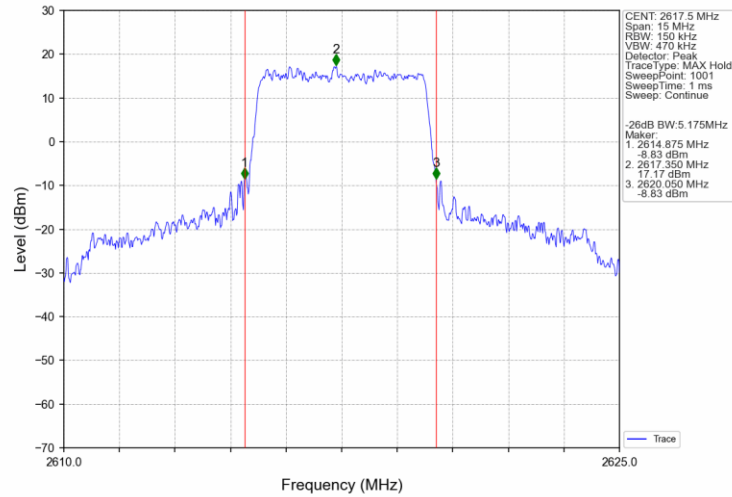
Band38 5MHz QPSK LCH 2572.5MHz RB 25 0 NTV



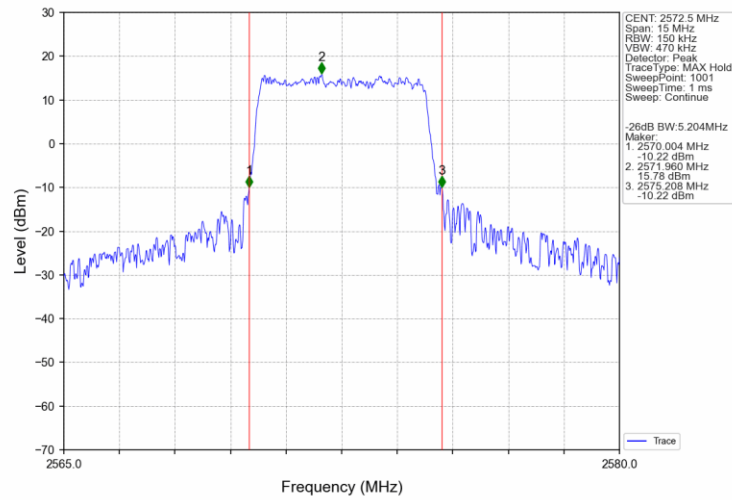
Band38 5MHz QPSK MCH 2595MHz RB 25 0 NTV



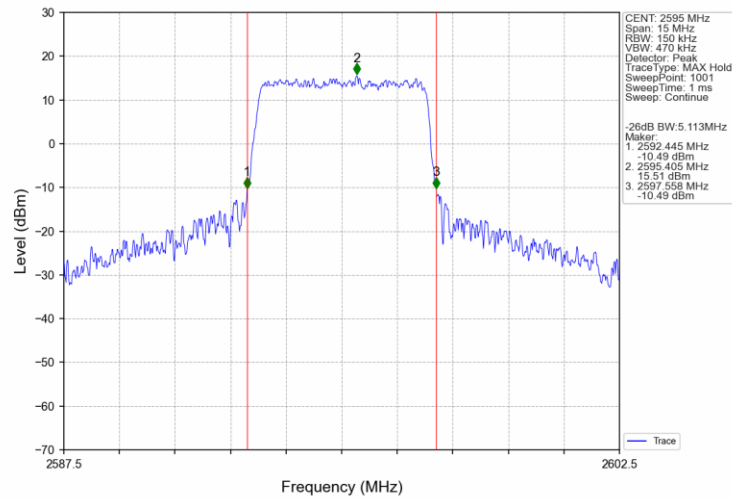
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTNV



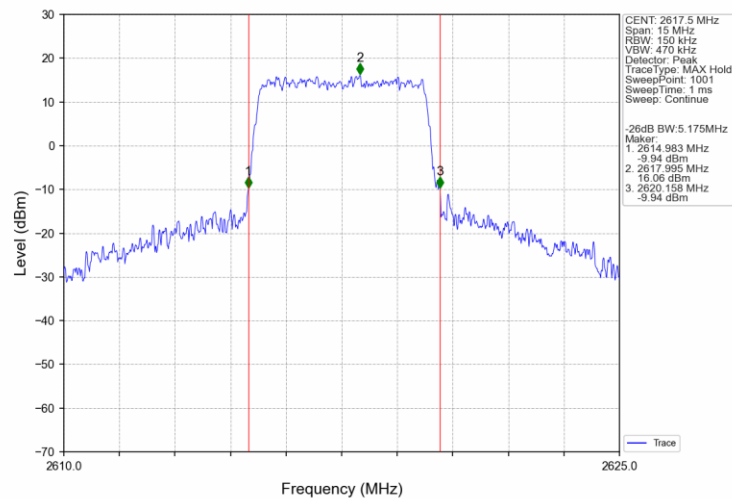
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTNV



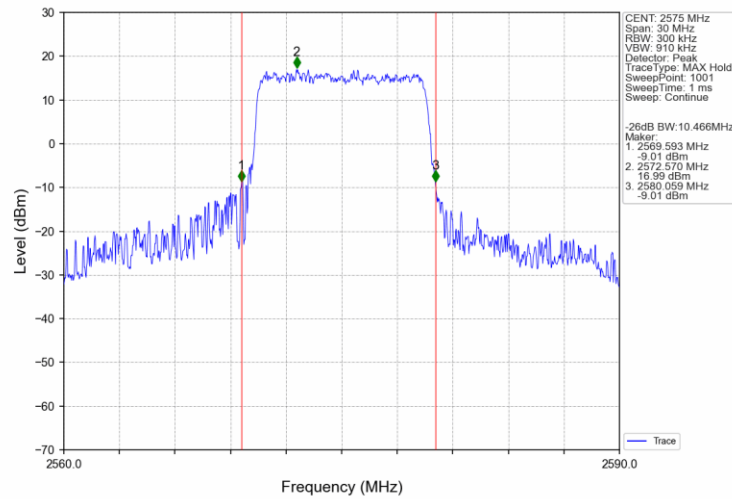
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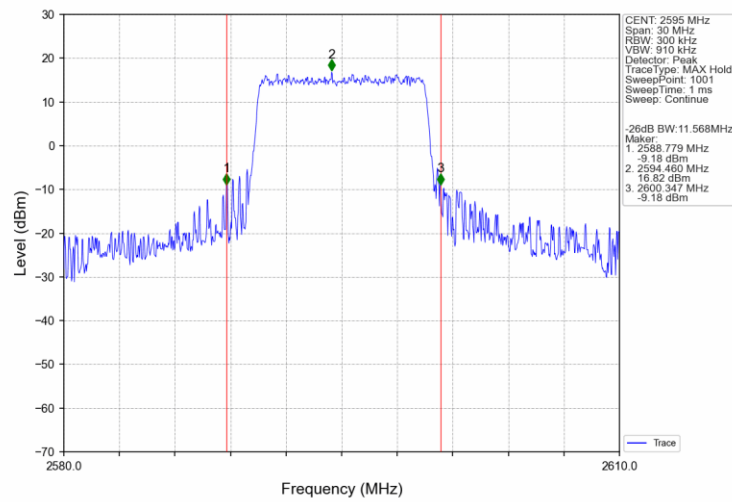
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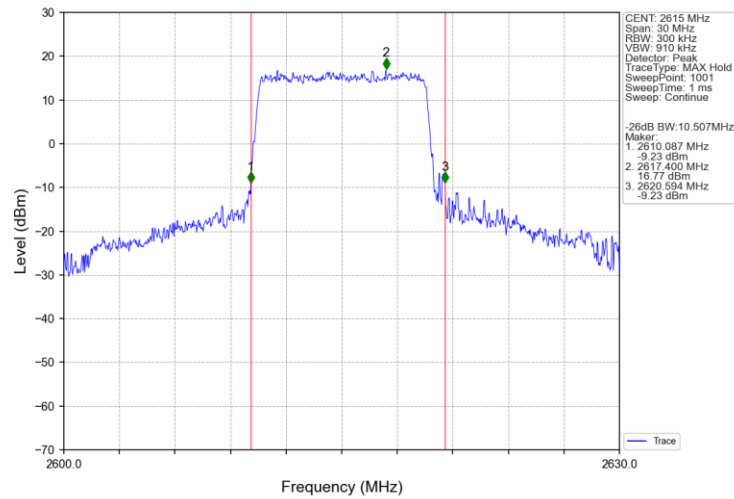
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



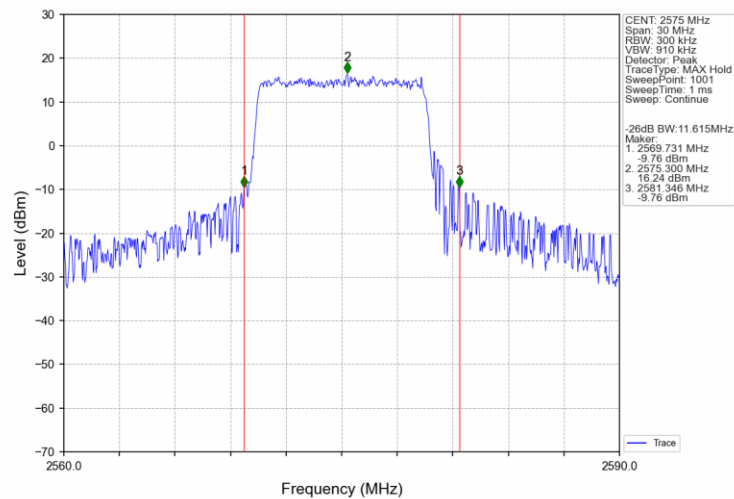
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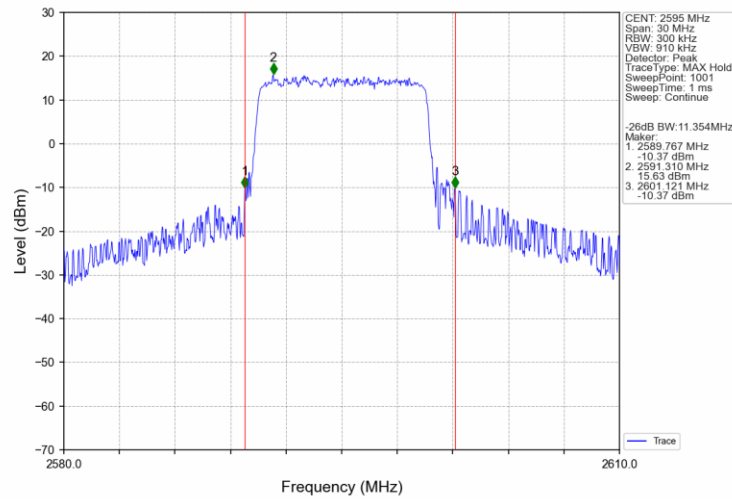
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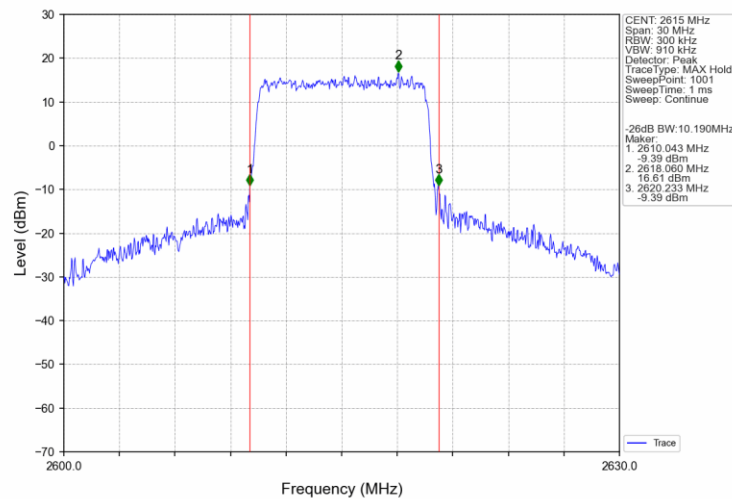
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



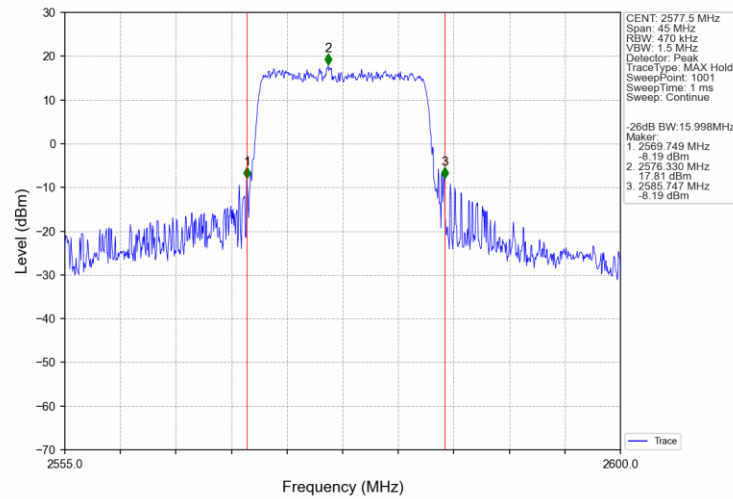
Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN



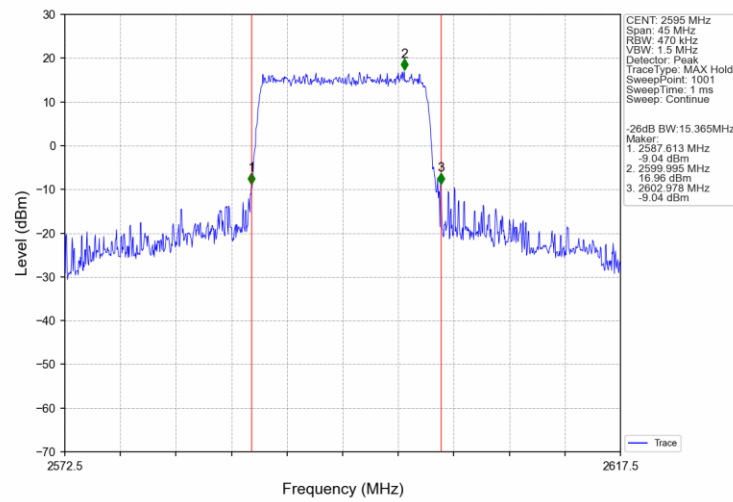
Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN



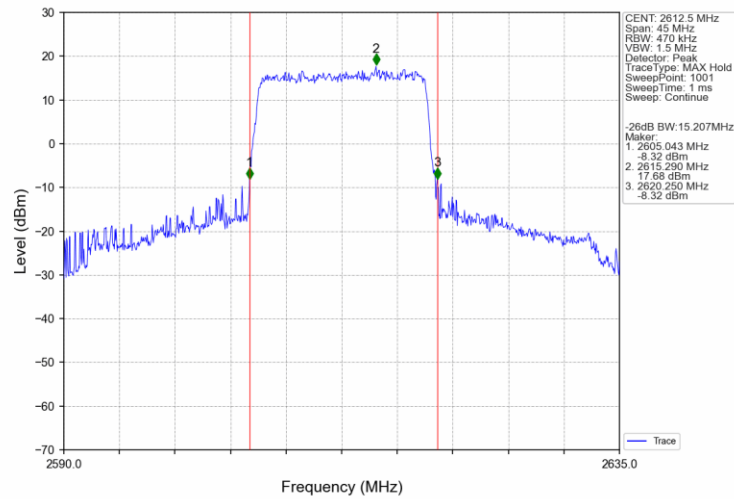
Band38 15MHz QPSK LCH 2577.5MHz RB 75 0 NTN



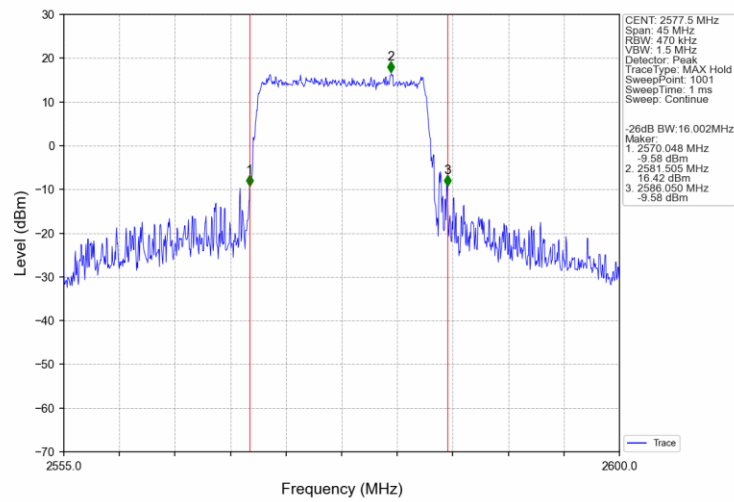
Band38 15MHz QPSK MCH 2595MHz RB 75 0 NTN



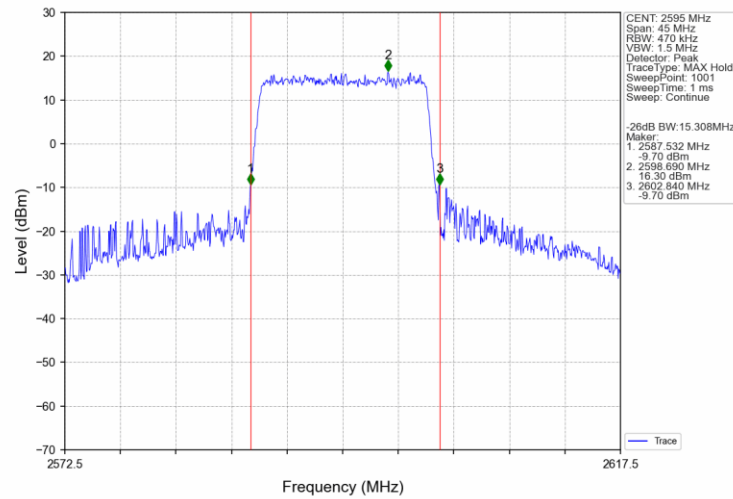
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



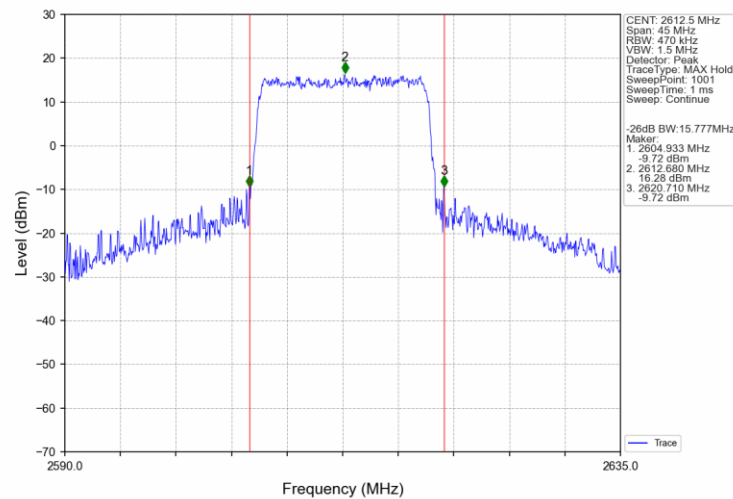
Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



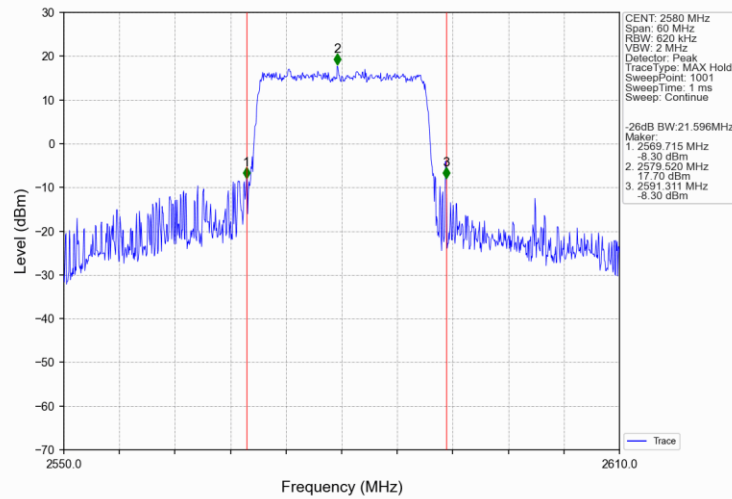
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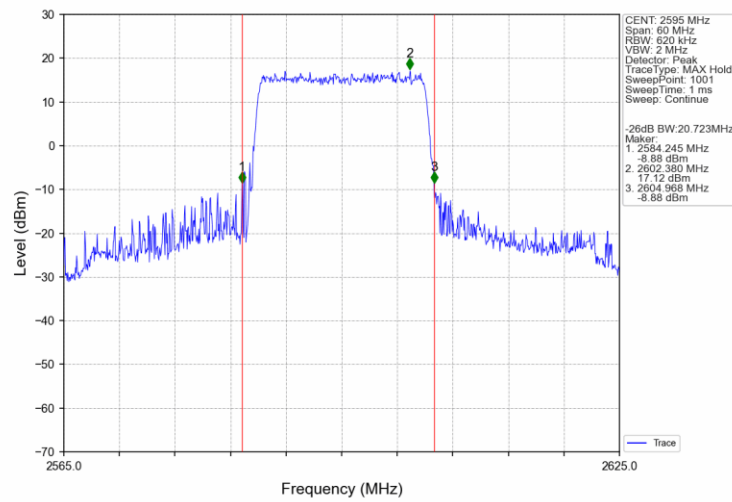
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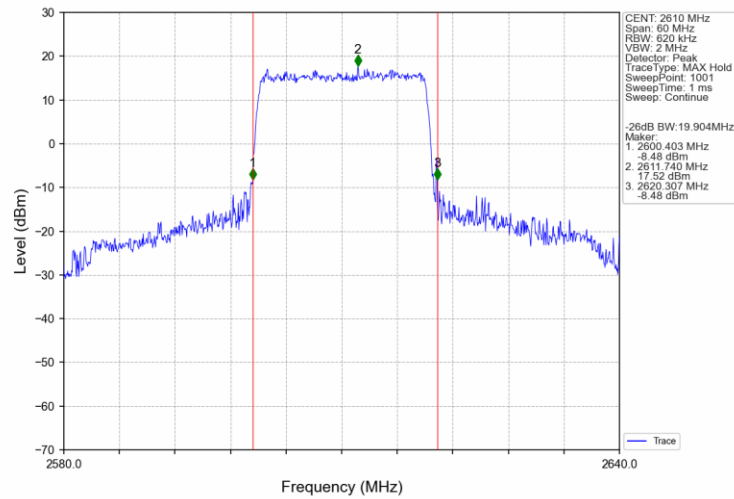
Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTNV



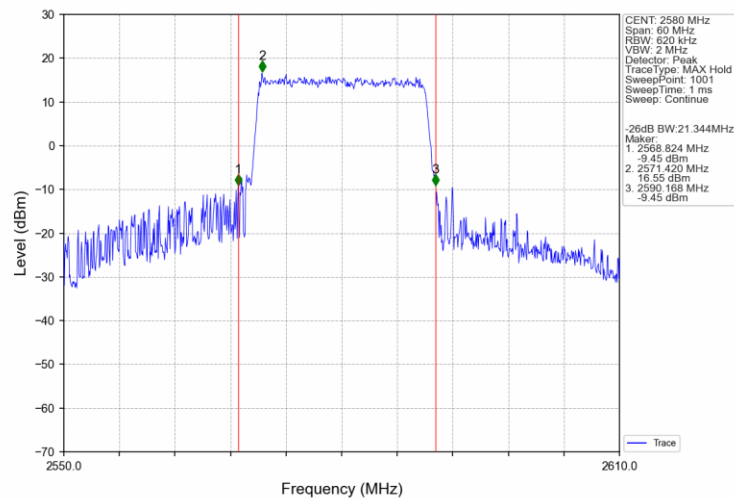
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV



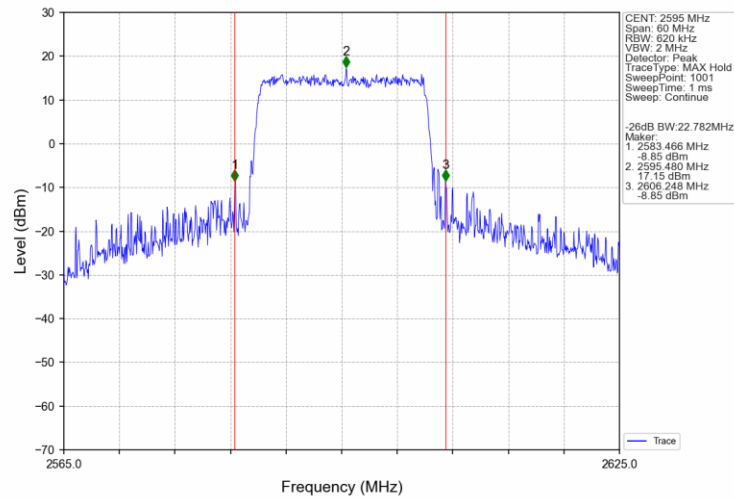
Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



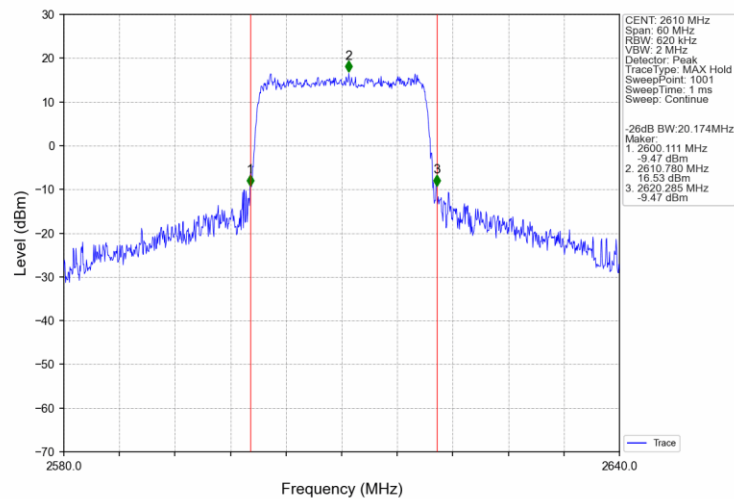
Band38 20MHz 16QAM LCH 2580MHz RB 100 0 NTN



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_HCH_2610MHz_RB_100_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	25	0	7.50	<=13	Pass
	2595	25	0	7.36	<=13	Pass
	2617.5	25	0	7.06	<=13	Pass
16QAM	2572.5	25	0	8.23	<=13	Pass
	2595	25	0	7.99	<=13	Pass
	2617.5	25	0	7.76	<=13	Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	50	0	7.69	<=13	Pass
	2595	50	0	7.36	<=13	Pass
	2615	50	0	7.12	<=13	Pass
16QAM	2575	50	0	8.35	<=13	Pass
	2595	50	0	8.02	<=13	Pass
	2615	50	0	7.79	<=13	Pass

5.1.3 B38_15MHz

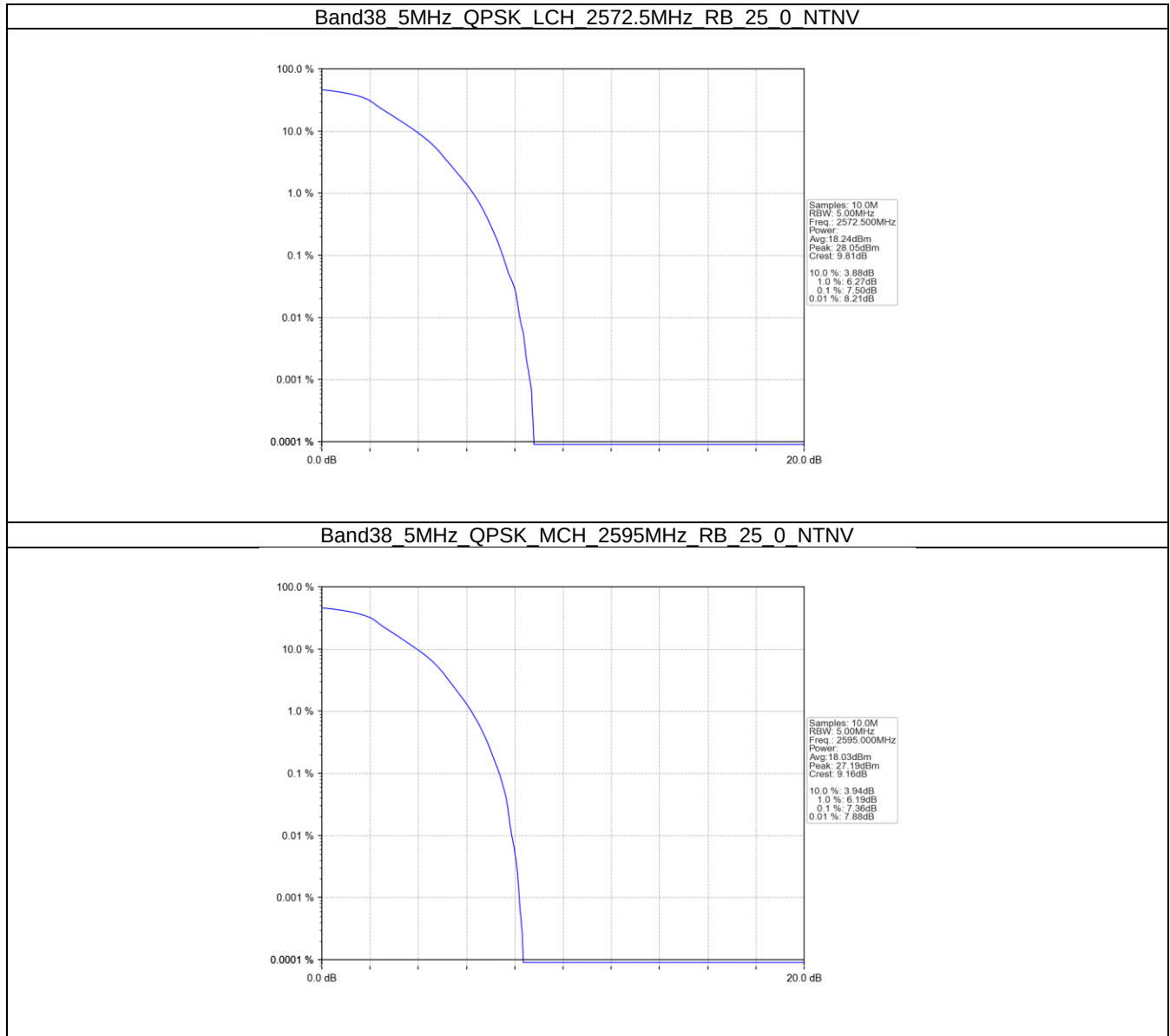
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	75	0	7.27	<=13	Pass
	2595	75	0	7.24	<=13	Pass
	2612.5	75	0	7.08	<=13	Pass
16QAM	2577.5	75	0	8.17	<=13	Pass
	2595	75	0	8.13	<=13	Pass
	2612.5	75	0	8.02	<=13	Pass

5.1.4 B38_20MHz

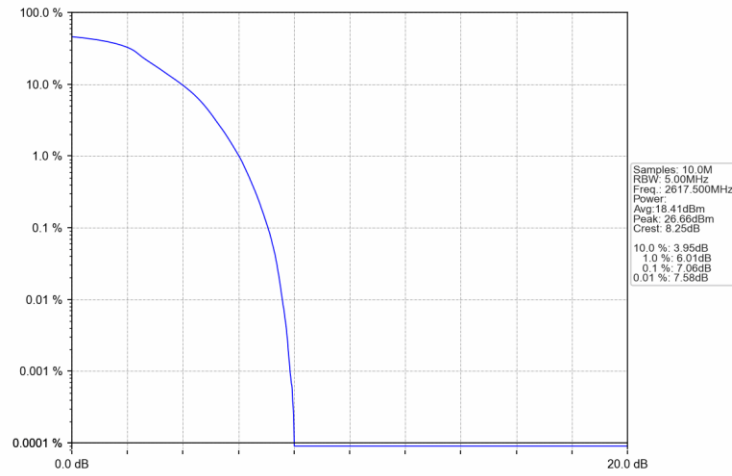
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	100	0	7.74	<=13	Pass
	2595	100	0	7.72	<=13	Pass
	2610	100	0	7.65	<=13	Pass
16QAM	2580	100	0	8.68	<=13	Pass
	2595	100	0	8.50	<=13	Pass
	2610	100	0	8.62	<=13	Pass

5.2 Test Graph

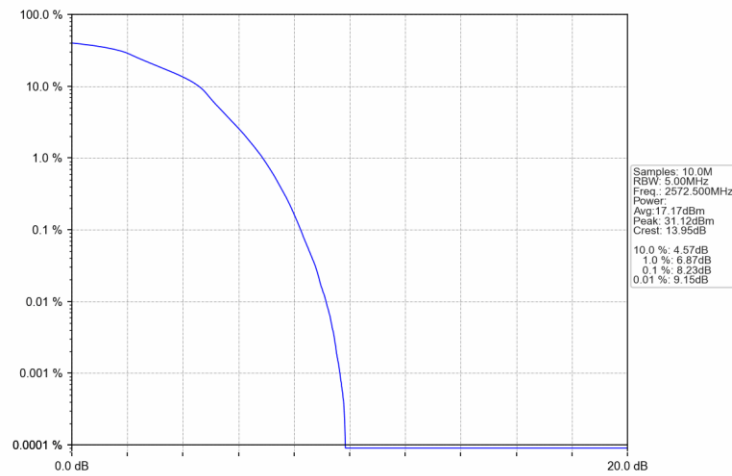
5.2.1 B38_5MHz



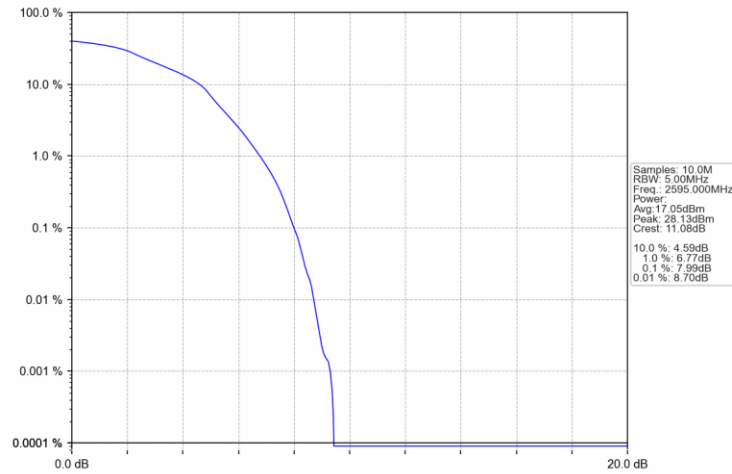
Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTN



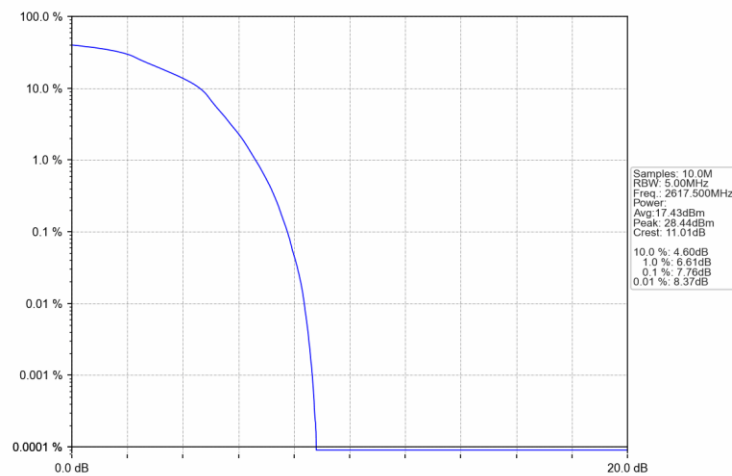
Band38 5MHz 16QAM LCH 2572.5MHz RB 25 0 NTN



Band38 5MHz 16QAM MCH 2595MHz RB 25 0 NTNV

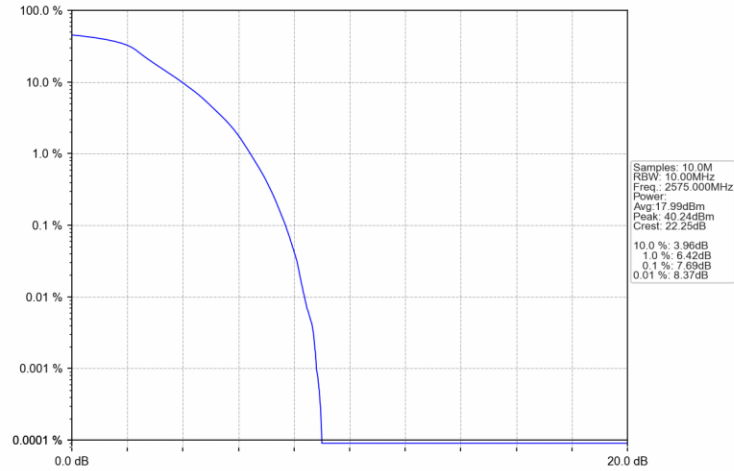


Band38 5MHz 16QAM HCH 2617.5MHz RB 25 0 NTNV

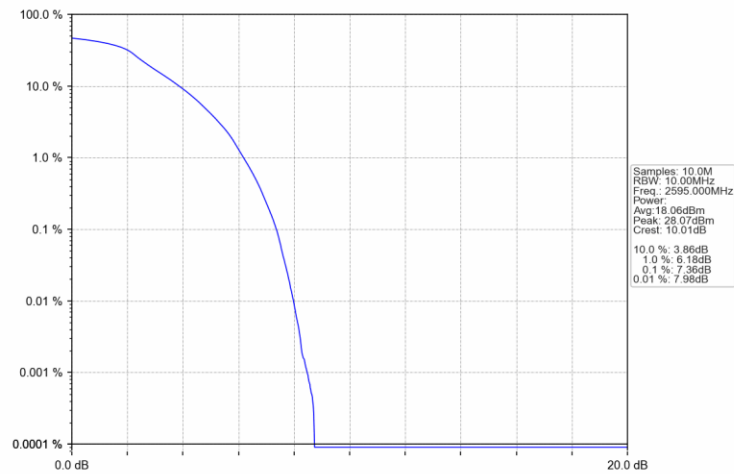


5.2.2 B38_10MHz

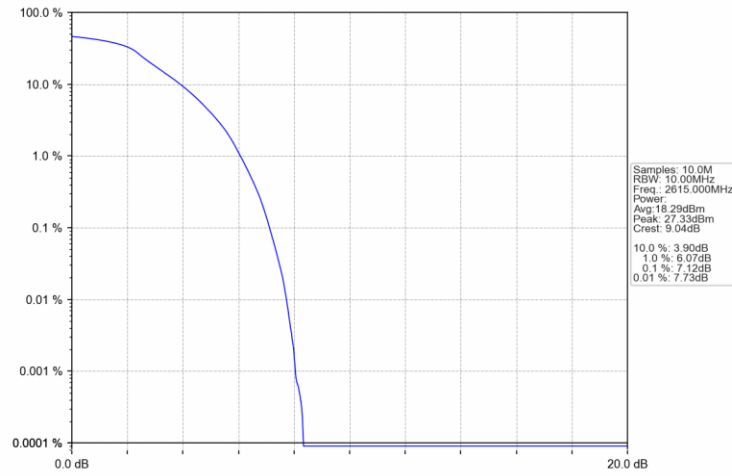
Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV



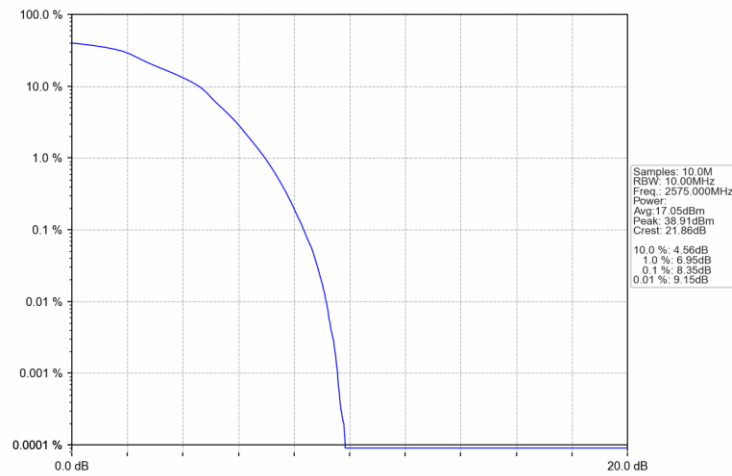
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



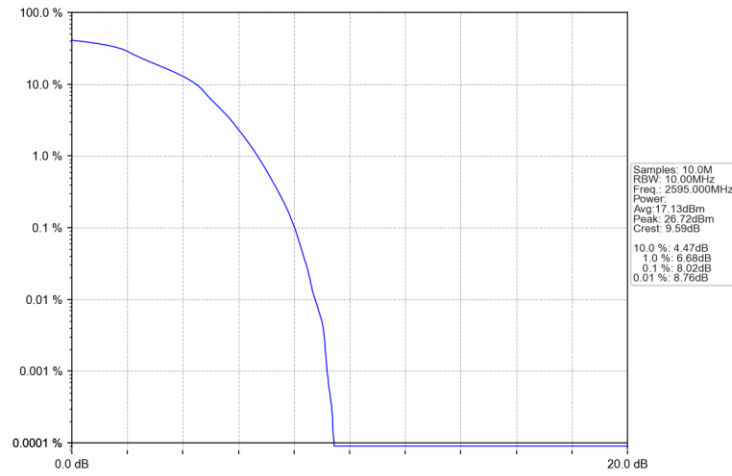
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



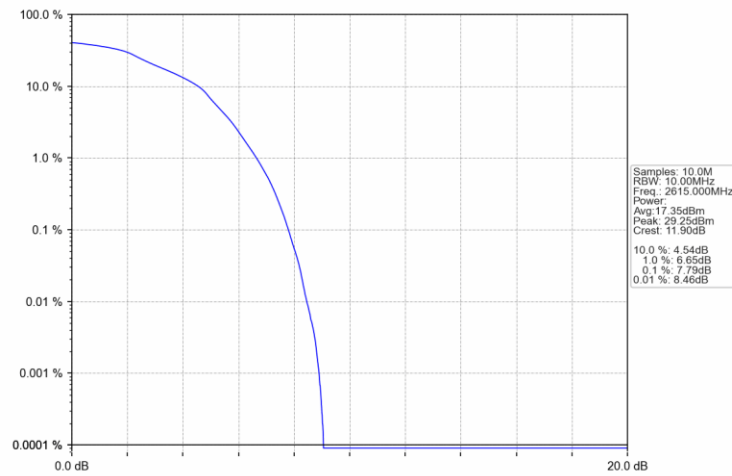
Band38_10MHz_16QAM_LCH_2575MHz_RB_50_0_NTNV



Band38 10MHz 16QAM MCH 2595MHz RB 50 0 NTN

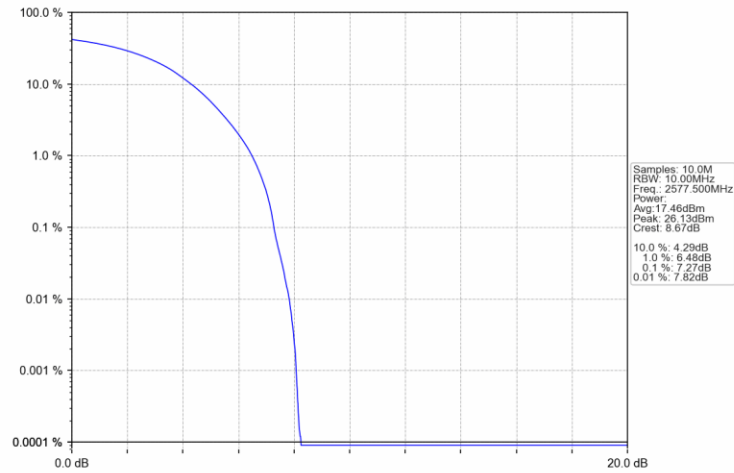


Band38 10MHz 16QAM HCH 2615MHz RB 50 0 NTN

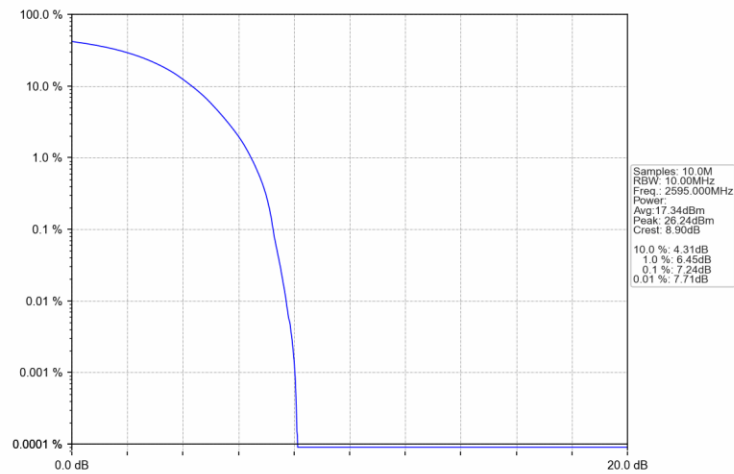


5.2.3 B38_15MHz

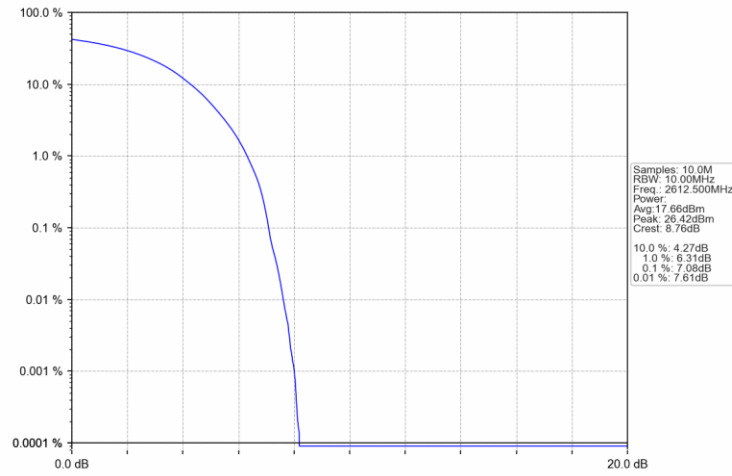
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV



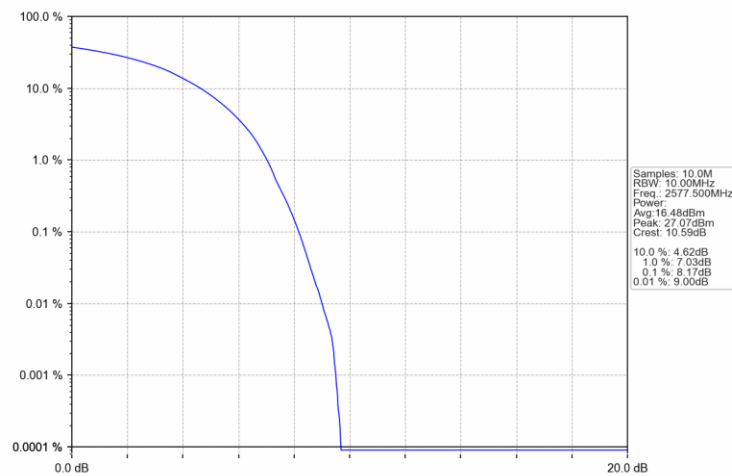
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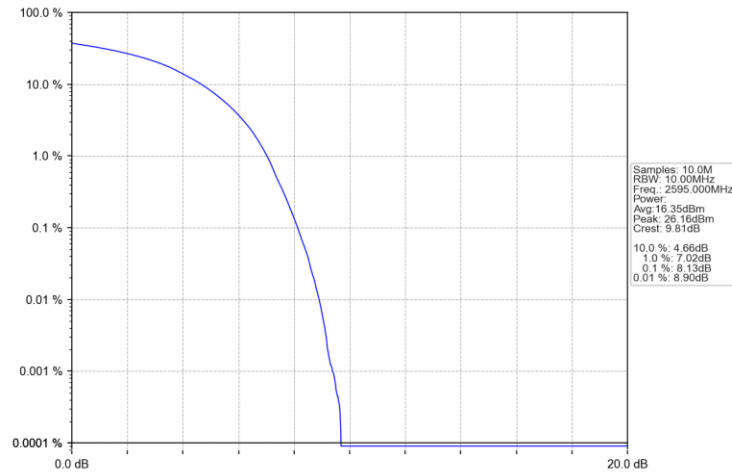
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Band38_15MHz_16QAM_LCH_2577.5MHz_RB_75_0_NTNV



Band38 15MHz 16QAM MCH 2595MHz RB 75 0 NTN



Band38 15MHz 16QAM HCH 2612.5MHz RB 75 0 NTN

