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	23.61	0.60	24.21	<=33.01	Pass
			13	23.46	0.60	24.06	<=33.01	Pass
			24	23.56	0.60	24.16	<=33.01	Pass
		12	0	22.64	0.60	23.24	<=33.01	Pass
			6	22.43	0.60	23.03	<=33.01	Pass
			13	22.58	0.60	23.18	<=33.01	Pass
		25	0	22.62	0.60	23.22	<=33.01	Pass
	2595	1	0	23.47	0.60	24.07	<=33.01	Pass
			13	23.48	0.60	24.08	<=33.01	Pass
			24	23.48	0.60	24.08	<=33.01	Pass
		12	0	22.25	0.60	22.85	<=33.01	Pass
			6	22.14	0.60	22.74	<=33.01	Pass
			13	22.23	0.60	22.83	<=33.01	Pass
		25	0	22.26	0.60	22.86	<=33.01	Pass
	2617.5	1	0	23.54	0.60	24.14	<=33.01	Pass
			13	23.54	0.60	24.14	<=33.01	Pass
			24	23.49	0.60	24.09	<=33.01	Pass
		12	0	22.50	0.60	23.10	<=33.01	Pass
			6	22.56	0.60	23.16	<=33.01	Pass
			13	22.56	0.60	23.16	<=33.01	Pass
		25	0	22.29	0.60	22.89	<=33.01	Pass
16QAM	2572.5	1	0	22.69	0.60	23.29	<=33.01	Pass
			13	22.57	0.60	23.17	<=33.01	Pass
			24	22.65	0.60	23.25	<=33.01	Pass
		12	0	21.59	0.60	22.19	<=33.01	Pass
			6	21.23	0.60	21.83	<=33.01	Pass
			13	21.30	0.60	21.90	<=33.01	Pass
		25	0	21.50	0.60	22.10	<=33.01	Pass
	2595	1	0	22.56	0.60	23.16	<=33.01	Pass
			13	22.51	0.60	23.11	<=33.01	Pass
			24	22.59	0.60	23.19	<=33.01	Pass
		12	0	21.30	0.60	21.90	<=33.01	Pass
			6	21.37	0.60	21.97	<=33.01	Pass
			13	21.30	0.60	21.90	<=33.01	Pass
		25	0	21.55	0.60	22.15	<=33.01	Pass
	2617.5	1	0	22.63	0.60	23.23	<=33.01	Pass
			13	22.64	0.60	23.24	<=33.01	Pass
			24	22.64	0.60	23.24	<=33.01	Pass
		12	0	21.55	0.60	22.15	<=33.01	Pass
			6	21.55	0.60	22.15	<=33.01	Pass
			13	21.54	0.60	22.14	<=33.01	Pass
		25	0	21.53	0.60	22.13	<=33.01	Pass
64QAM	2572.5	1	0	21.30	0.60	21.90	<=33.01	Pass
			13	21.26	0.60	21.86	<=33.01	Pass
			24	21.27	0.60	21.87	<=33.01	Pass
		12	0	20.70	0.60	21.30	<=33.01	Pass
			6	20.49	0.60	21.09	<=33.01	Pass
			13	20.36	0.60	20.96	<=33.01	Pass
		25	0	20.68	0.60	21.28	<=33.01	Pass

	2595	1	0	21.18	0.60	21.78	<=33.01	Pass
			13	21.21	0.60	21.81	<=33.01	Pass
			24	21.19	0.60	21.79	<=33.01	Pass
		12	0	20.36	0.60	20.96	<=33.01	Pass
			6	20.34	0.60	20.94	<=33.01	Pass
			13	20.35	0.60	20.95	<=33.01	Pass
		25	0	20.33	0.60	20.93	<=33.01	Pass
	2617.5	1	0	21.26	0.60	21.86	<=33.01	Pass
			13	21.23	0.60	21.83	<=33.01	Pass
			24	21.24	0.60	21.84	<=33.01	Pass
		12	0	20.64	0.60	21.24	<=33.01	Pass
			6	20.61	0.60	21.21	<=33.01	Pass
			13	20.61	0.60	21.21	<=33.01	Pass
		25	0	20.65	0.60	21.25	<=33.01	Pass
256QAM	2572.5	1	0	18.50	0.60	19.10	<=33.01	Pass
			13	18.42	0.60	19.02	<=33.01	Pass
			24	18.43	0.60	19.03	<=33.01	Pass
		12	0	18.54	0.60	19.14	<=33.01	Pass
			6	18.70	0.60	19.30	<=33.01	Pass
			13	18.66	0.60	19.26	<=33.01	Pass
		25	0	18.66	0.60	19.26	<=33.01	Pass
	2595	1	0	18.35	0.60	18.95	<=33.01	Pass
			13	18.37	0.60	18.97	<=33.01	Pass
			24	18.34	0.60	18.94	<=33.01	Pass
		12	0	18.58	0.60	19.18	<=33.01	Pass
			6	18.55	0.60	19.15	<=33.01	Pass
			13	18.57	0.60	19.17	<=33.01	Pass
		25	0	18.42	0.60	19.02	<=33.01	Pass
	2617.5	1	0	18.39	0.60	18.99	<=33.01	Pass
			13	18.27	0.60	18.87	<=33.01	Pass
			24	18.28	0.60	18.88	<=33.01	Pass
		12	0	18.71	0.60	19.31	<=33.01	Pass
			6	18.69	0.60	19.29	<=33.01	Pass
			13	18.68	0.60	19.28	<=33.01	Pass
		25	0	18.57	0.60	19.17	<=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	23.66	0.60	24.26	<=33.01	Pass
			25	23.52	0.60	24.12	<=33.01	Pass
			49	23.52	0.60	24.12	<=33.01	Pass
		25	0	22.58	0.60	23.18	<=33.01	Pass
			13	22.55	0.60	23.15	<=33.01	Pass
			25	22.54	0.60	23.14	<=33.01	Pass
		50	0	22.58	0.60	23.18	<=33.01	Pass
	2595	1	0	23.44	0.60	24.04	<=33.01	Pass
			25	23.49	0.60	24.09	<=33.01	Pass
			49	23.50	0.60	24.10	<=33.01	Pass
		25	0	22.47	0.60	23.07	<=33.01	Pass
			13	22.46	0.60	23.06	<=33.01	Pass
			25	22.45	0.60	23.05	<=33.01	Pass
		50	0	22.46	0.60	23.06	<=33.01	Pass
	2615	1	0	23.53	0.60	24.13	<=33.01	Pass

			25	23.51	0.60	24.11	<=33.01	Pass
			49	23.57	0.60	24.17	<=33.01	Pass
		25	0	22.56	0.60	23.16	<=33.01	Pass
			13	22.54	0.60	23.14	<=33.01	Pass
			25	22.60	0.60	23.20	<=33.01	Pass
		50	0	22.60	0.60	23.20	<=33.01	Pass
16QAM	2575	1	0	22.76	0.60	23.36	<=33.01	Pass
			25	22.66	0.60	23.26	<=33.01	Pass
			49	22.61	0.60	23.21	<=33.01	Pass
		25	0	21.65	0.60	22.25	<=33.01	Pass
			13	21.60	0.60	22.20	<=33.01	Pass
			25	21.56	0.60	22.16	<=33.01	Pass
		50	0	21.65	0.60	22.25	<=33.01	Pass
	2595	1	0	22.63	0.60	23.23	<=33.01	Pass
			25	22.58	0.60	23.18	<=33.01	Pass
			49	22.59	0.60	23.19	<=33.01	Pass
		25	0	21.52	0.60	22.12	<=33.01	Pass
			13	21.51	0.60	22.11	<=33.01	Pass
			25	21.51	0.60	22.11	<=33.01	Pass
		50	0	21.50	0.60	22.10	<=33.01	Pass
	2615	1	0	22.68	0.60	23.28	<=33.01	Pass
			25	22.62	0.60	23.22	<=33.01	Pass
			49	22.67	0.60	23.27	<=33.01	Pass
		25	0	21.57	0.60	22.17	<=33.01	Pass
			13	21.57	0.60	22.17	<=33.01	Pass
			25	21.58	0.60	22.18	<=33.01	Pass
		50	0	21.57	0.60	22.17	<=33.01	Pass
64QAM	2575	1	0	21.35	0.60	21.95	<=33.01	Pass
			25	21.24	0.60	21.84	<=33.01	Pass
			49	21.24	0.60	21.84	<=33.01	Pass
		25	0	20.67	0.60	21.27	<=33.01	Pass
			13	20.64	0.60	21.24	<=33.01	Pass
			25	20.64	0.60	21.24	<=33.01	Pass
		50	0	20.63	0.60	21.23	<=33.01	Pass
	2595	1	0	21.21	0.60	21.81	<=33.01	Pass
			25	21.17	0.60	21.77	<=33.01	Pass
			49	21.18	0.60	21.78	<=33.01	Pass
		25	0	20.58	0.60	21.18	<=33.01	Pass
			13	20.46	0.60	21.06	<=33.01	Pass
			25	20.54	0.60	21.14	<=33.01	Pass
		50	0	20.47	0.60	21.07	<=33.01	Pass
	2615	1	0	21.26	0.60	21.86	<=33.01	Pass
			25	21.19	0.60	21.79	<=33.01	Pass
			49	21.27	0.60	21.87	<=33.01	Pass
		25	0	20.62	0.60	21.22	<=33.01	Pass
			13	20.63	0.60	21.23	<=33.01	Pass
			25	20.59	0.60	21.19	<=33.01	Pass
		50	0	20.57	0.60	21.17	<=33.01	Pass
256QAM	2575	1	0	18.57	0.60	19.17	<=33.01	Pass
			25	18.24	0.60	18.84	<=33.01	Pass
			49	18.41	0.60	19.01	<=33.01	Pass
		25	0	18.67	0.60	19.27	<=33.01	Pass
			13	18.62	0.60	19.22	<=33.01	Pass
			25	18.63	0.60	19.23	<=33.01	Pass
		50	0	18.68	0.60	19.28	<=33.01	Pass
	2595	1	0	18.39	0.60	18.99	<=33.01	Pass
			25	18.36	0.60	18.96	<=33.01	Pass
			49	18.36	0.60	18.96	<=33.01	Pass
		25	0	18.57	0.60	19.17	<=33.01	Pass

			13	18.53	0.60	19.13	<=33.01	Pass
			25	18.51	0.60	19.11	<=33.01	Pass
		50	0	18.55	0.60	19.15	<=33.01	Pass
	2615	1	0	18.48	0.60	19.08	<=33.01	Pass
			25	18.40	0.60	19.00	<=33.01	Pass
			49	18.48	0.60	19.08	<=33.01	Pass
		25	0	18.62	0.60	19.22	<=33.01	Pass
			13	18.63	0.60	19.23	<=33.01	Pass
			25	18.64	0.60	19.24	<=33.01	Pass
		50	0	18.63	0.60	19.23	<=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	23.63	0.60	24.23	<=33.01	Pass
			38	23.18	0.60	23.78	<=33.01	Pass
			74	23.44	0.60	24.04	<=33.01	Pass
		36	0	22.65	0.60	23.25	<=33.01	Pass
			18	22.60	0.60	23.20	<=33.01	Pass
			39	22.36	0.60	22.96	<=33.01	Pass
		75	0	22.52	0.60	23.12	<=33.01	Pass
	2595	1	0	23.62	0.60	24.22	<=33.01	Pass
			38	23.54	0.60	24.14	<=33.01	Pass
			74	23.47	0.60	24.07	<=33.01	Pass
		36	0	22.46	0.60	23.06	<=33.01	Pass
			18	22.33	0.60	22.93	<=33.01	Pass
			39	22.30	0.60	22.90	<=33.01	Pass
		75	0	22.38	0.60	22.98	<=33.01	Pass
	2612.5	1	0	23.57	0.60	24.17	<=33.01	Pass
			38	23.55	0.60	24.15	<=33.01	Pass
			74	23.58	0.60	24.18	<=33.01	Pass
		36	0	22.41	0.60	23.01	<=33.01	Pass
			18	22.41	0.60	23.01	<=33.01	Pass
			39	22.40	0.60	23.00	<=33.01	Pass
		75	0	22.59	0.60	23.19	<=33.01	Pass
16QAM	2577.5	1	0	22.76	0.60	23.36	<=33.01	Pass
			38	22.69	0.60	23.29	<=33.01	Pass
			74	22.22	0.60	22.82	<=33.01	Pass
		36	0	21.63	0.60	22.23	<=33.01	Pass
			18	21.60	0.60	22.20	<=33.01	Pass
			39	21.23	0.60	21.83	<=33.01	Pass
		75	0	21.60	0.60	22.20	<=33.01	Pass
	2595	1	0	22.75	0.60	23.35	<=33.01	Pass
			38	22.65	0.60	23.25	<=33.01	Pass
			74	22.58	0.60	23.18	<=33.01	Pass
		36	0	21.41	0.60	22.01	<=33.01	Pass
			18	21.33	0.60	21.93	<=33.01	Pass
			39	21.22	0.60	21.82	<=33.01	Pass
		75	0	21.57	0.60	22.17	<=33.01	Pass
	2612.5	1	0	22.69	0.60	23.29	<=33.01	Pass
			38	22.65	0.60	23.25	<=33.01	Pass
			74	22.69	0.60	23.29	<=33.01	Pass
		36	0	21.47	0.60	22.07	<=33.01	Pass
			18	21.47	0.60	22.07	<=33.01	Pass

			39	21.47	0.60	22.07	<=33.01	Pass
		75	0	21.53	0.60	22.13	<=33.01	Pass
64QAM	2577.5	1	0	21.34	0.60	21.94	<=33.01	Pass
			38	21.29	0.60	21.89	<=33.01	Pass
			74	21.13	0.60	21.73	<=33.01	Pass
		36	0	20.69	0.60	21.29	<=33.01	Pass
			18	20.68	0.60	21.28	<=33.01	Pass
			39	20.53	0.60	21.13	<=33.01	Pass
		75	0	20.60	0.60	21.20	<=33.01	Pass
	2595	1	0	21.32	0.60	21.92	<=33.01	Pass
			38	21.24	0.60	21.84	<=33.01	Pass
			74	21.15	0.60	21.75	<=33.01	Pass
		36	0	20.60	0.60	21.20	<=33.01	Pass
			18	20.55	0.60	21.15	<=33.01	Pass
			39	20.53	0.60	21.13	<=33.01	Pass
		75	0	20.60	0.60	21.20	<=33.01	Pass
	2612.5	1	0	21.29	0.60	21.89	<=33.01	Pass
			38	21.24	0.60	21.84	<=33.01	Pass
			74	21.25	0.60	21.85	<=33.01	Pass
		36	0	20.61	0.60	21.21	<=33.01	Pass
			18	20.62	0.60	21.22	<=33.01	Pass
			39	20.49	0.60	21.09	<=33.01	Pass
		75	0	20.59	0.60	21.19	<=33.01	Pass
256QAM	2577.5	1	0	18.54	0.60	19.14	<=33.01	Pass
			38	18.53	0.60	19.13	<=33.01	Pass
			74	18.16	0.60	18.76	<=33.01	Pass
		36	0	18.71	0.60	19.31	<=33.01	Pass
			18	18.68	0.60	19.28	<=33.01	Pass
			39	18.54	0.60	19.14	<=33.01	Pass
		75	0	18.63	0.60	19.23	<=33.01	Pass
	2595	1	0	18.53	0.60	19.13	<=33.01	Pass
			38	18.49	0.60	19.09	<=33.01	Pass
			74	18.37	0.60	18.97	<=33.01	Pass
		36	0	18.62	0.60	19.22	<=33.01	Pass
			18	18.55	0.60	19.15	<=33.01	Pass
			39	18.56	0.60	19.16	<=33.01	Pass
		75	0	18.62	0.60	19.22	<=33.01	Pass
	2612.5	1	0	18.48	0.60	19.08	<=33.01	Pass
			38	18.48	0.60	19.08	<=33.01	Pass
			74	18.46	0.60	19.06	<=33.01	Pass
		36	0	18.63	0.60	19.23	<=33.01	Pass
			18	18.65	0.60	19.25	<=33.01	Pass
			39	18.64	0.60	19.24	<=33.01	Pass
		75	0	18.60	0.60	19.20	<=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	23.67	0.60	24.27	<=33.01	Pass
			50	23.40	0.60	24.00	<=33.01	Pass
			99	23.38	0.60	23.98	<=33.01	Pass
		50	0	22.67	0.60	23.27	<=33.01	Pass
			25	22.61	0.60	23.21	<=33.01	Pass
			50	22.24	0.60	22.84	<=33.01	Pass

		100	0	22.46	0.60	23.06	<=33.01	Pass
	2595	1	0	23.62	0.60	24.22	<=33.01	Pass
			50	23.21	0.60	23.81	<=33.01	Pass
			99	23.26	0.60	23.86	<=33.01	Pass
		50	0	22.59	0.60	23.19	<=33.01	Pass
			25	22.54	0.60	23.14	<=33.01	Pass
			50	22.16	0.60	22.76	<=33.01	Pass
		100	0	22.45	0.60	23.05	<=33.01	Pass
	2610	1	0	23.63	0.60	24.23	<=33.01	Pass
			50	23.55	0.60	24.15	<=33.01	Pass
			99	23.16	0.60	23.76	<=33.01	Pass
		50	0	22.48	0.60	23.08	<=33.01	Pass
			25	22.39	0.60	22.99	<=33.01	Pass
			50	22.20	0.60	22.80	<=33.01	Pass
		100	0	22.47	0.60	23.07	<=33.01	Pass
16QAM	2580	1	0	22.67	0.60	23.27	<=33.01	Pass
			50	22.67	0.60	23.27	<=33.01	Pass
			99	22.51	0.60	23.11	<=33.01	Pass
		50	0	21.69	0.60	22.29	<=33.01	Pass
			25	21.64	0.60	22.24	<=33.01	Pass
			50	21.57	0.60	22.17	<=33.01	Pass
		100	0	21.65	0.60	22.25	<=33.01	Pass
	2595	1	0	22.57	0.60	23.17	<=33.01	Pass
			50	22.68	0.60	23.28	<=33.01	Pass
			99	22.57	0.60	23.17	<=33.01	Pass
		50	0	21.64	0.60	22.24	<=33.01	Pass
			25	21.58	0.60	22.18	<=33.01	Pass
			50	21.37	0.60	21.97	<=33.01	Pass
		100	0	21.32	0.60	21.92	<=33.01	Pass
	2610	1	0	22.76	0.60	23.36	<=33.01	Pass
			50	22.61	0.60	23.21	<=33.01	Pass
			99	22.70	0.60	23.30	<=33.01	Pass
		50	0	21.68	0.60	22.28	<=33.01	Pass
			25	21.66	0.60	22.26	<=33.01	Pass
			50	21.49	0.60	22.09	<=33.01	Pass
		100	0	21.50	0.60	22.10	<=33.01	Pass
64QAM	2580	1	0	21.37	0.60	21.97	<=33.01	Pass
			50	21.25	0.60	21.85	<=33.01	Pass
			99	21.12	0.60	21.72	<=33.01	Pass
		50	0	20.71	0.60	21.31	<=33.01	Pass
			25	20.66	0.60	21.26	<=33.01	Pass
			50	20.58	0.60	21.18	<=33.01	Pass
		100	0	20.65	0.60	21.25	<=33.01	Pass
	2595	1	0	21.33	0.60	21.93	<=33.01	Pass
			50	21.18	0.60	21.78	<=33.01	Pass
			99	21.13	0.60	21.73	<=33.01	Pass
		50	0	20.66	0.60	21.26	<=33.01	Pass
			25	20.62	0.60	21.22	<=33.01	Pass
			50	20.55	0.60	21.15	<=33.01	Pass
		100	0	20.43	0.60	21.03	<=33.01	Pass
	2610	1	0	21.34	0.60	21.94	<=33.01	Pass
			50	21.27	0.60	21.87	<=33.01	Pass
			99	21.19	0.60	21.79	<=33.01	Pass
		50	0	20.71	0.60	21.31	<=33.01	Pass
			25	20.70	0.60	21.30	<=33.01	Pass
			50	20.66	0.60	21.26	<=33.01	Pass
		100	0	20.69	0.60	21.29	<=33.01	Pass
256QAM	2580	1	0	18.42	0.60	19.02	<=33.01	Pass
			50	18.49	0.60	19.09	<=33.01	Pass

			99	18.29	0.60	18.89	<=33.01	Pass
		50	0	18.76	0.60	19.36	<=33.01	Pass
			25	18.73	0.60	19.33	<=33.01	Pass
			50	18.36	0.60	18.96	<=33.01	Pass
		100	0	18.45	0.60	19.05	<=33.01	Pass
	2595	1	0	18.52	0.60	19.12	<=33.01	Pass
			50	18.48	0.60	19.08	<=33.01	Pass
			99	18.35	0.60	18.95	<=33.01	Pass
		50	0	18.70	0.60	19.30	<=33.01	Pass
			25	18.59	0.60	19.19	<=33.01	Pass
			50	18.45	0.60	19.05	<=33.01	Pass
		100	0	18.44	0.60	19.04	<=33.01	Pass
	2610	1	0	18.53	0.60	19.13	<=33.01	Pass
			50	18.53	0.60	19.13	<=33.01	Pass
			99	18.47	0.60	19.07	<=33.01	Pass
		50	0	18.76	0.60	19.36	<=33.01	Pass
			25	18.75	0.60	19.35	<=33.01	Pass
			50	18.56	0.60	19.16	<=33.01	Pass
		100	0	18.53	0.60	19.13	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 B38_10MHz

Band: 38 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2595	50	0	20	LV	3.100	0.0012	-2.5 to 2.5	Pass
					NV	0.800	0.0003	-2.5 to 2.5	Pass
					HV	-1.500	-0.0006	-2.5 to 2.5	Pass
				-30	NV	0.500	0.0002	-2.5 to 2.5	Pass
				-20	NV	0.400	0.0002	-2.5 to 2.5	Pass
				-10	NV	-0.500	-0.0002	-2.5 to 2.5	Pass
				0	NV	0.600	0.0002	-2.5 to 2.5	Pass
				10	NV	1.000	0.0004	-2.5 to 2.5	Pass
				30	NV	1.400	0.0005	-2.5 to 2.5	Pass
				40	NV	-4.500	-0.0017	-2.5 to 2.5	Pass
				50	NV	-4.700	-0.0018	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

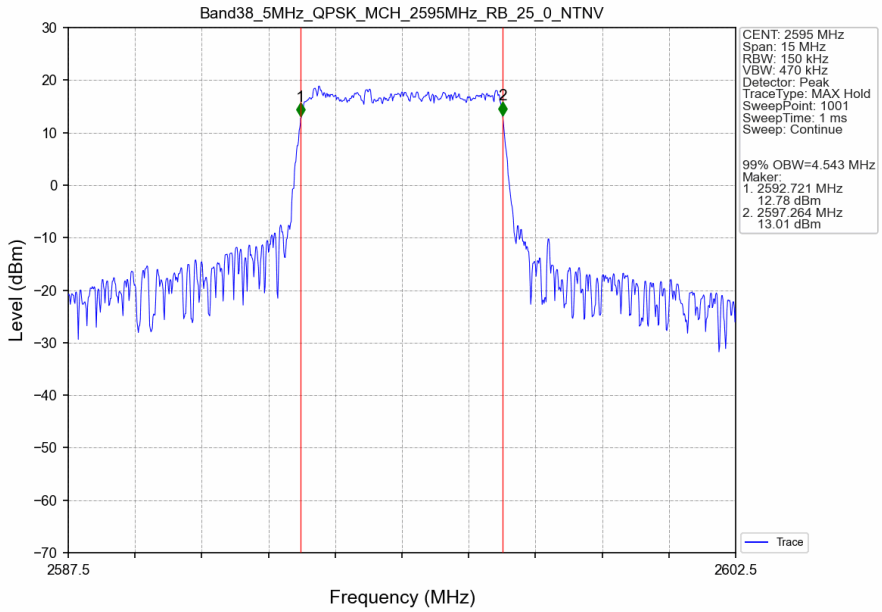
Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	4.543	/	Pass
	16QAM	2595	25	0	4.548	/	Pass
10	QPSK	2595	50	0	9.090	/	Pass
	16QAM	2595	50	0	9.059	/	Pass
15	QPSK	2595	75	0	13.673	/	Pass
	16QAM	2595	75	0	13.621	/	Pass
20	QPSK	2595	100	0	18.117	/	Pass
	16QAM	2595	100	0	18.102	/	Pass

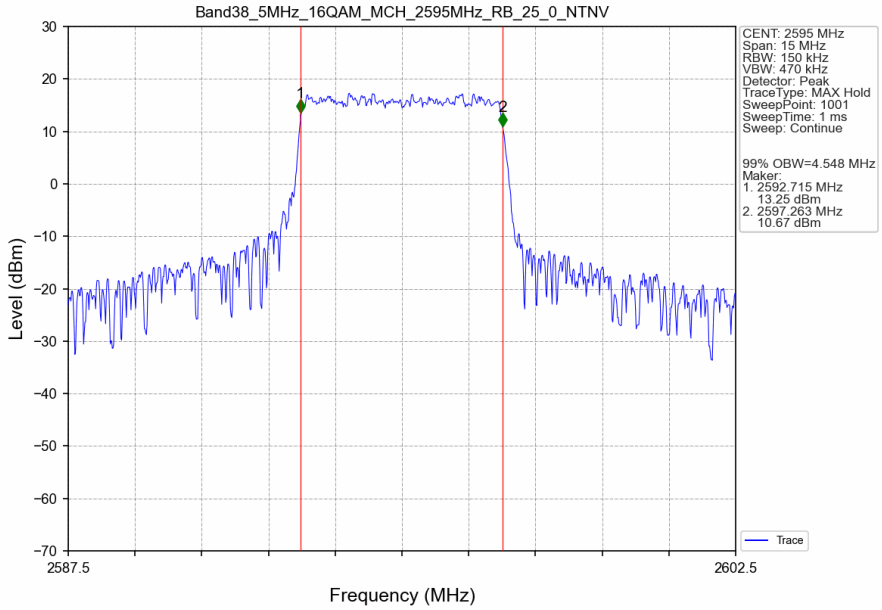
3.1.2 Band38_XDB

Band: 38 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	5.006	/	Pass
	16QAM	2595	25	0	5.246	/	Pass
10	QPSK	2595	50	0	10.935	/	Pass
	16QAM	2595	50	0	11.058	/	Pass
15	QPSK	2595	75	0	20.854	/	Pass
	16QAM	2595	75	0	17.728	/	Pass
20	QPSK	2595	100	0	27.552	/	Pass
	16QAM	2595	100	0	25.713	/	Pass

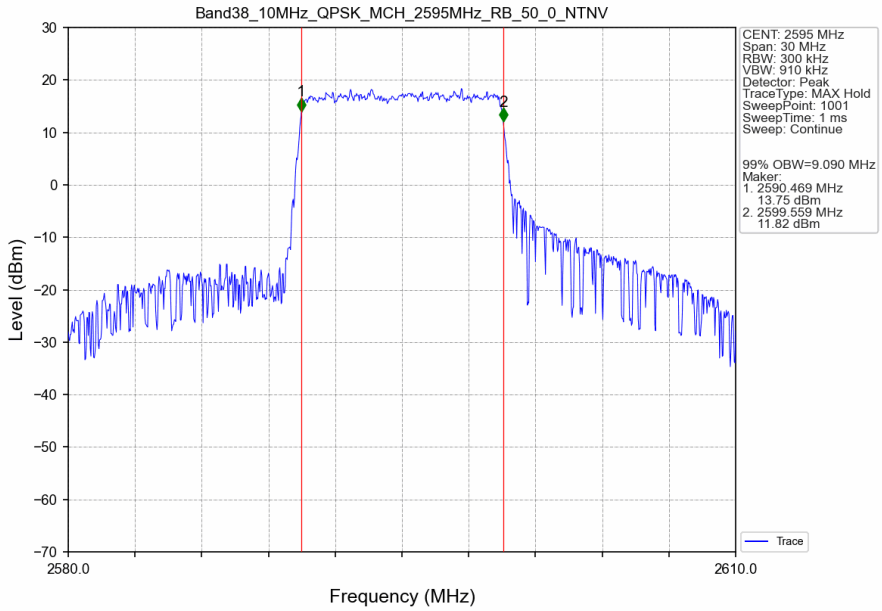
3.2 Test Graph

3.2.1 Band38_OBW

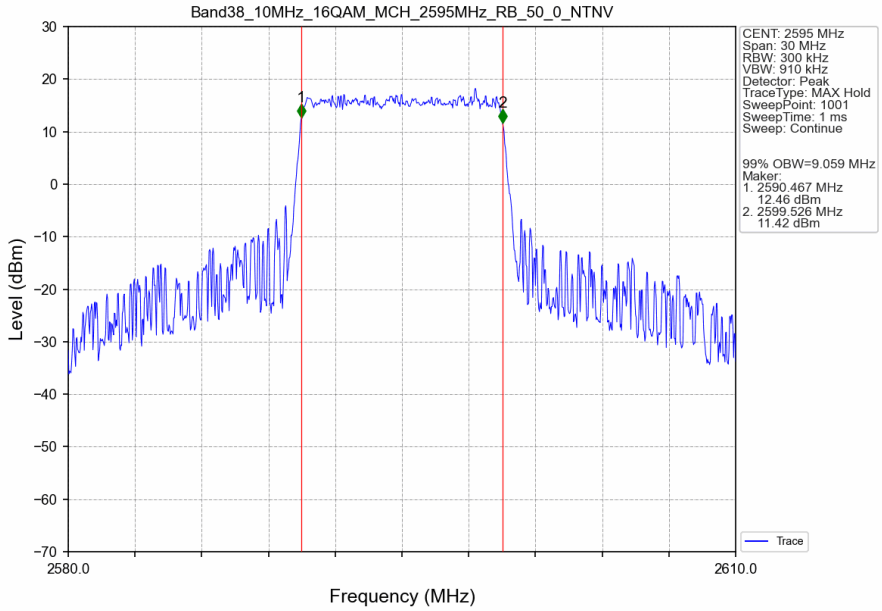
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV


Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV


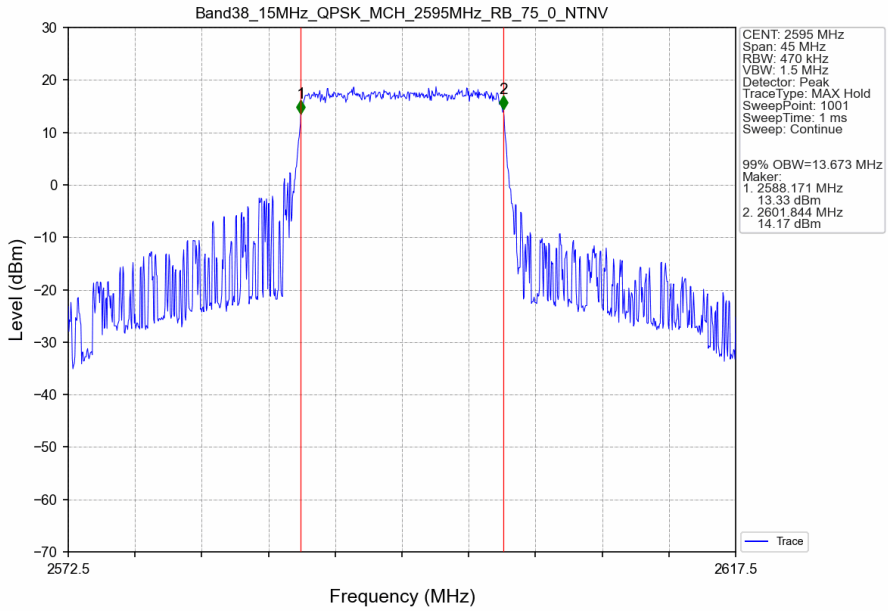
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



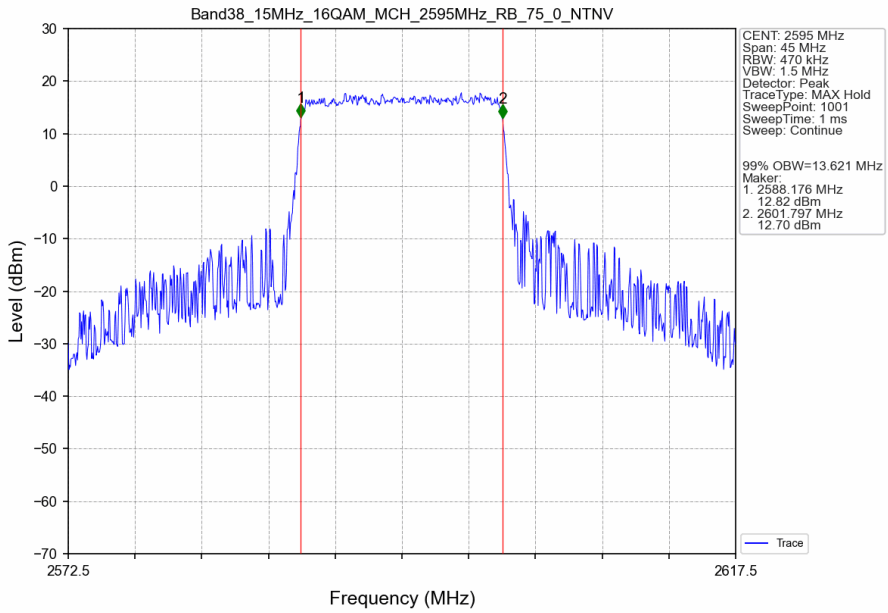
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



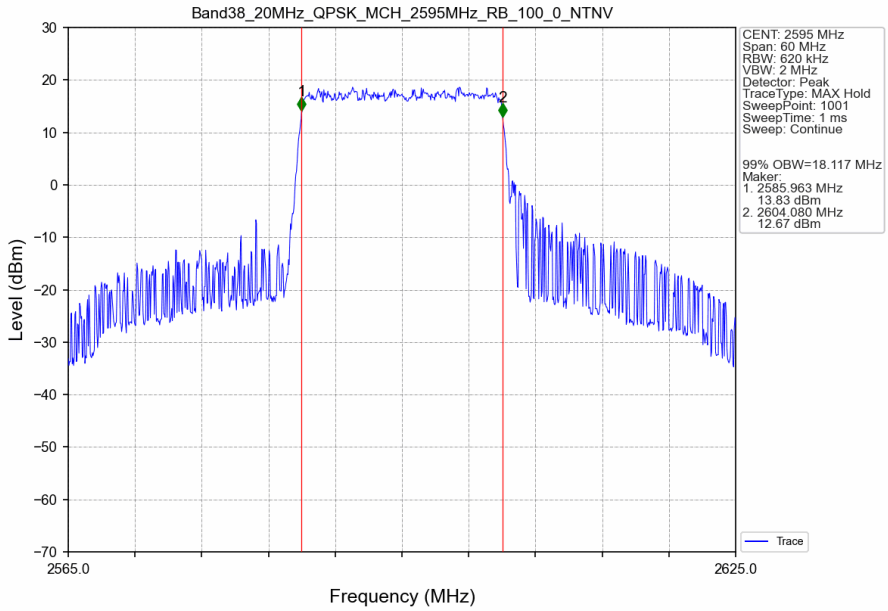
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



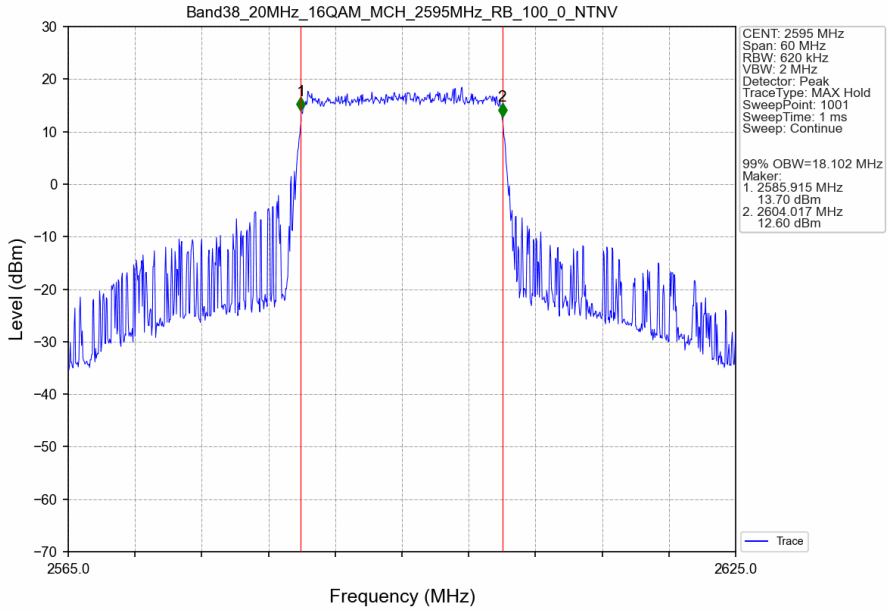
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV

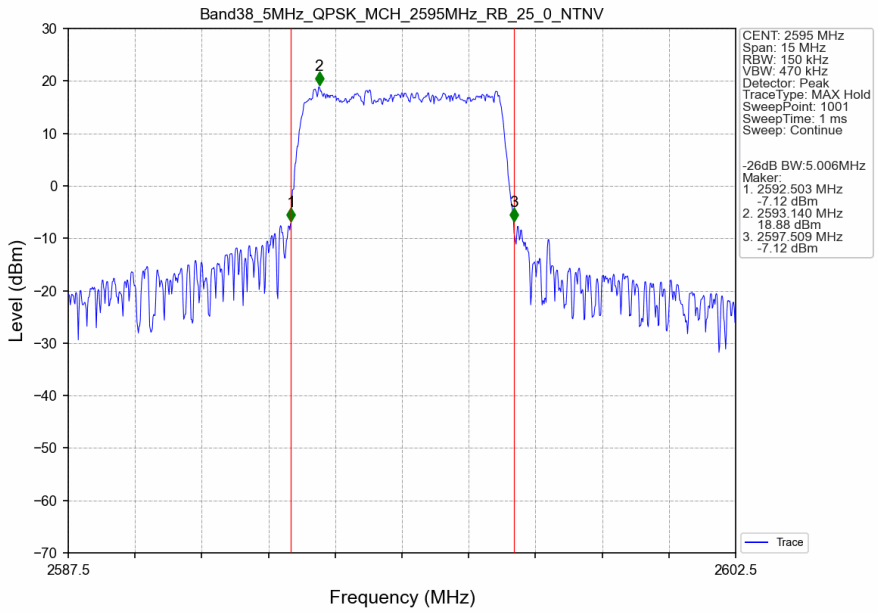


Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV

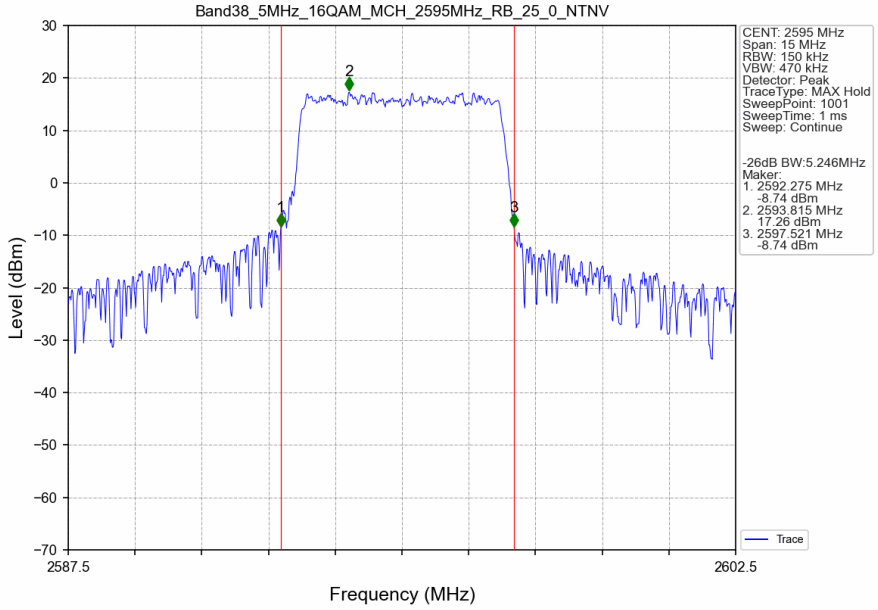


3.2.2 Band38_XDB

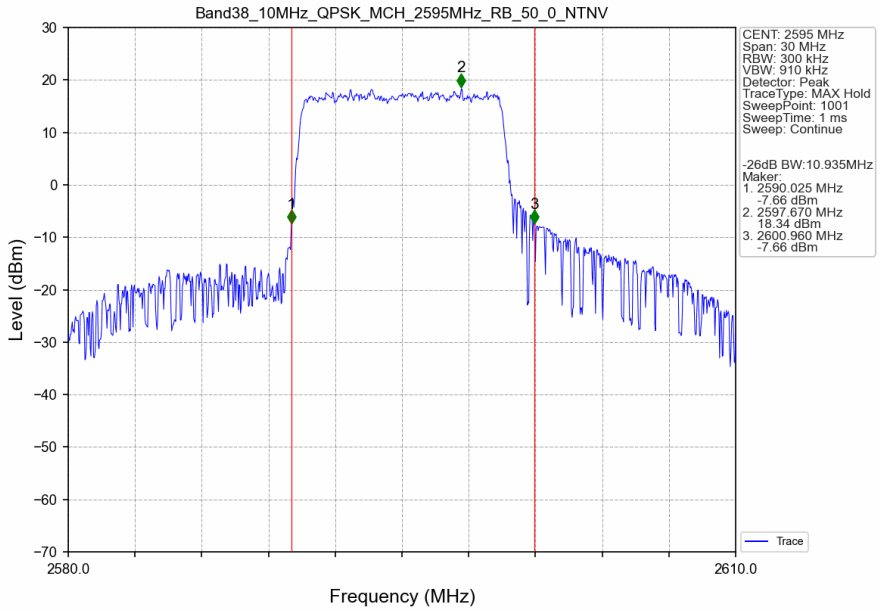
Band38_5MHz_QPSK_MCH_2595MHz_RB_25_0_NTNV



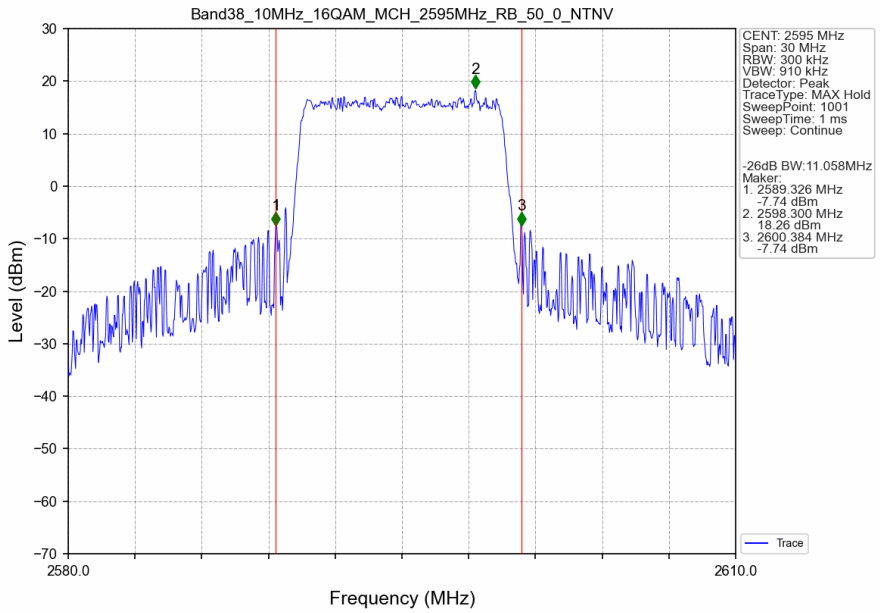
Band38_5MHz_16QAM_MCH_2595MHz_RB_25_0_NTNV



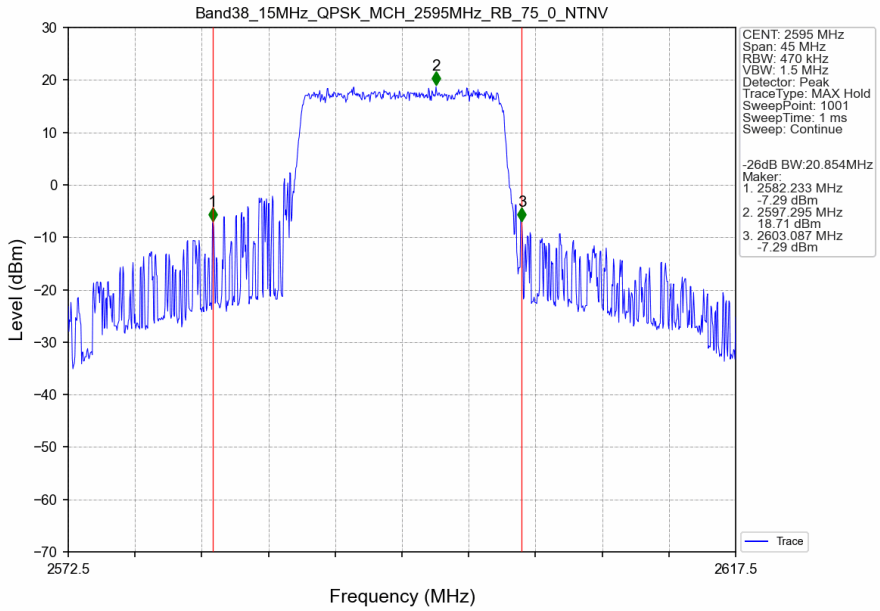
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



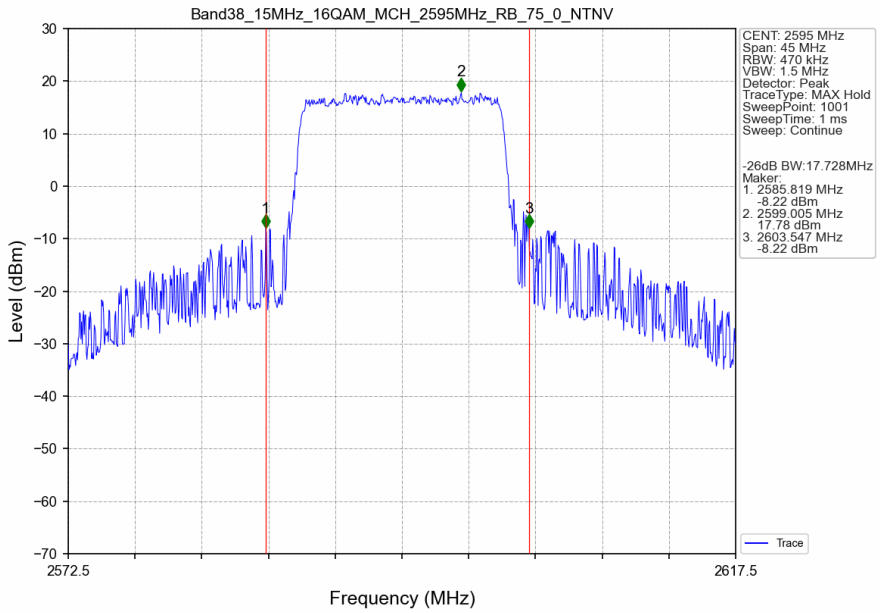
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



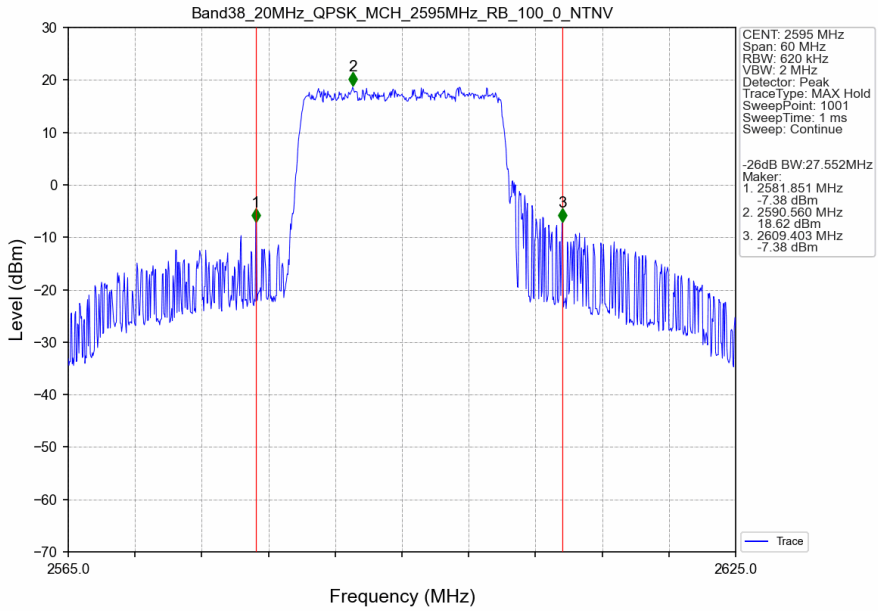
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



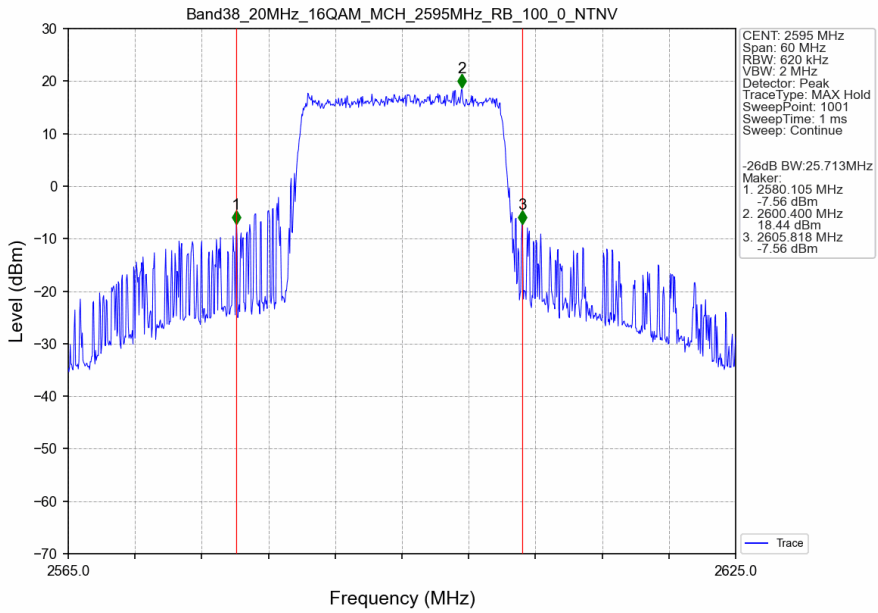
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



4. Peak-Average Ratio

4.1 Test Result

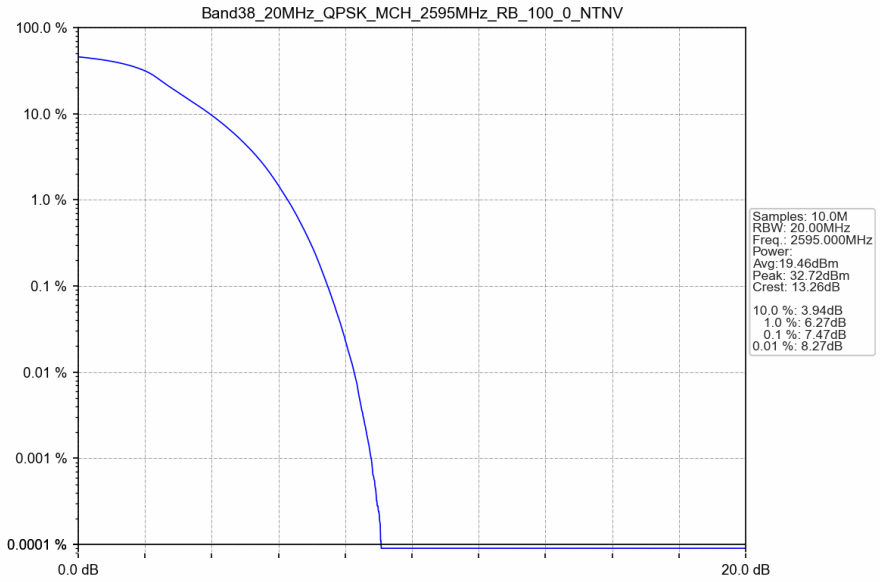
4.1.1 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	7.47	<=13	Pass
16QAM	2595	100	0	7.91	<=13	Pass
64QAM	2595	100	0	8.59	<=13	Pass
256QAM	2595	100	0	8.75	<=13	Pass

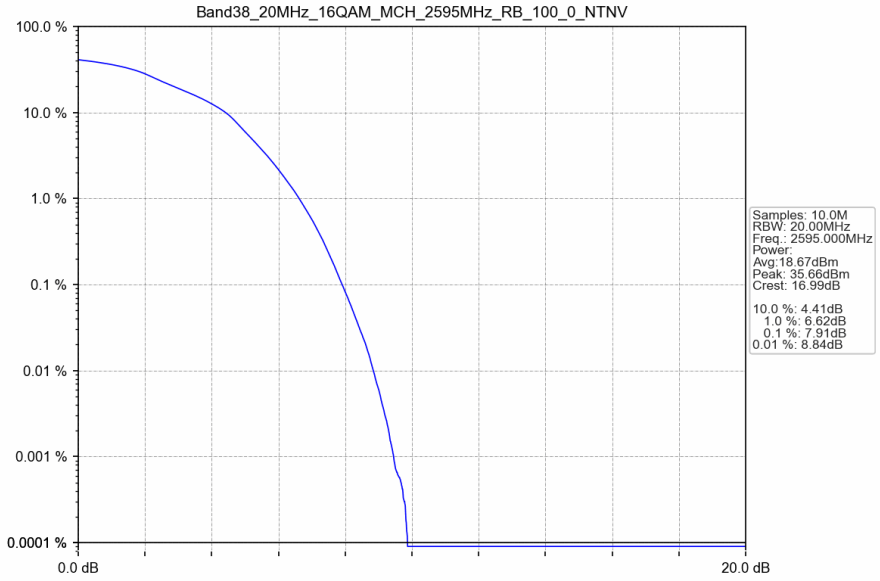
4.2 Test Graph

4.2.1 B38_20MHz

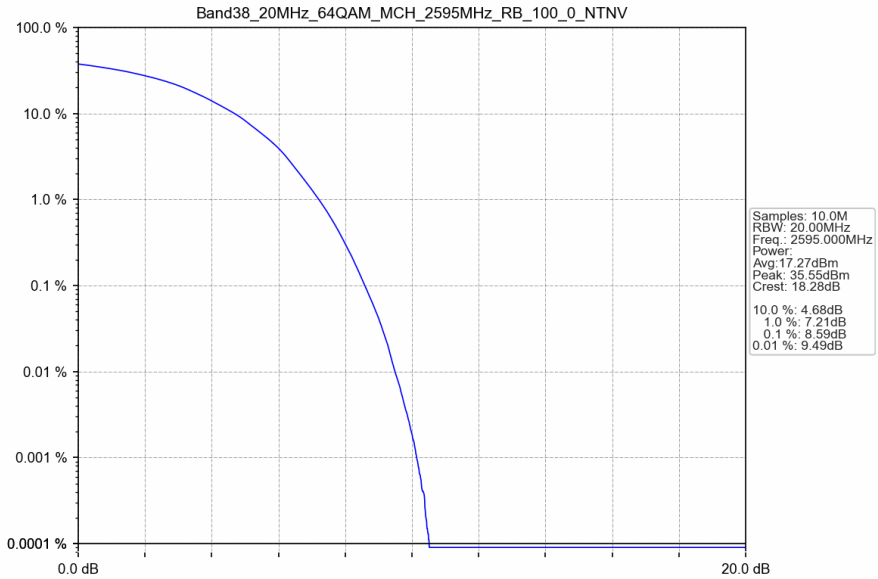
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



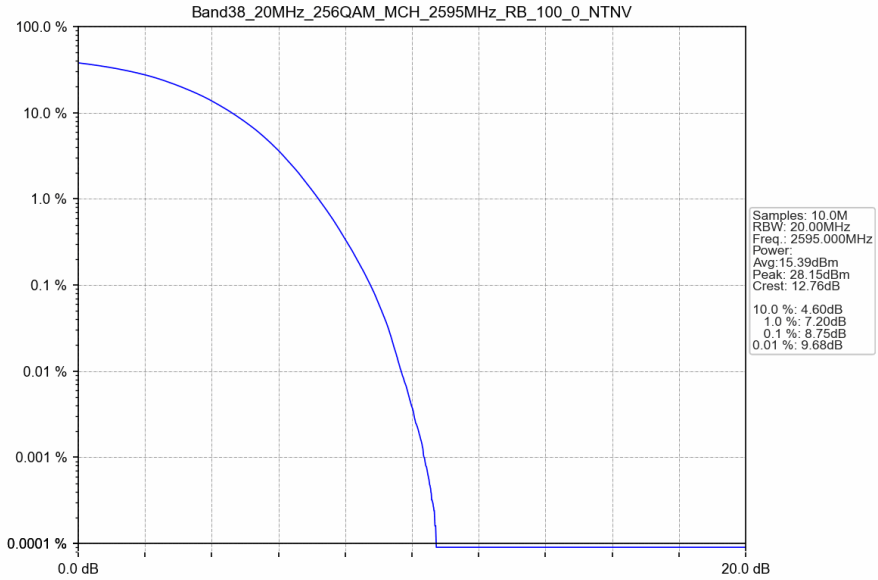
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_64QAM_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_256QAM_MCH_2595MHz_RB_100_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B38_5MHz

Band: 38 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2572.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2617.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B38_10MHz

Band: 38 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2575	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2615	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B38_15MHz

Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

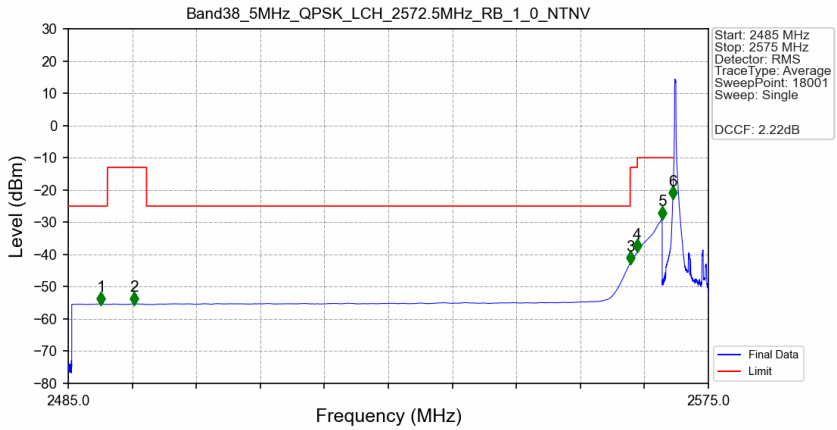
5.1.4 B38_20MHz

Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

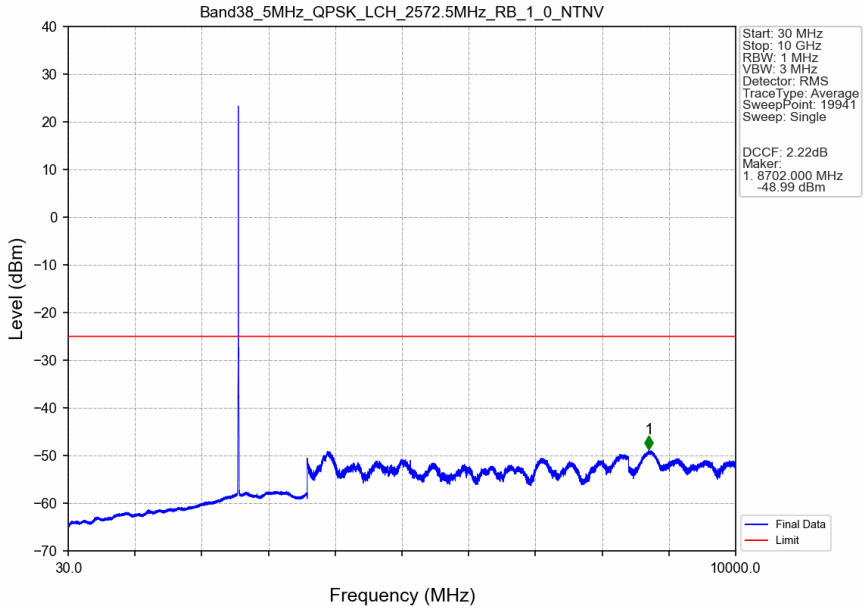
5.2.1 B38_5MHz

Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

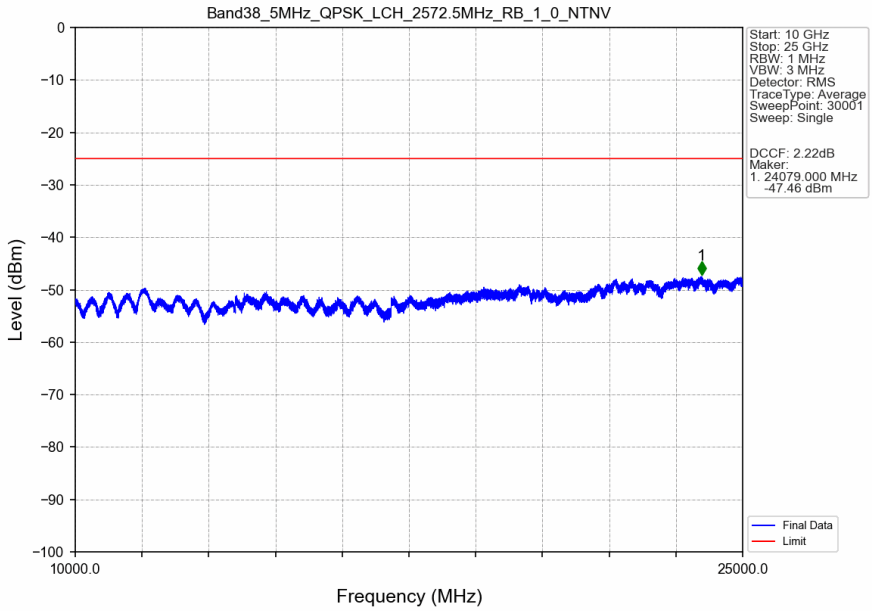


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.585	-55.34	-25	Pass
2490.5	2496	1	CHP	2	2494.285	-55.33	-13	Pass
2496	2564	1	CHP	3	2564.000	-42.80	-25	Pass
2564	2565	1	CHP	4	2565.000	-39.03	-13	Pass
2565	2569	1	CHP	5	2568.500	-28.75	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-22.54	-10	Pass
2570	2575	0.02	CHP	/	/	/	/	/

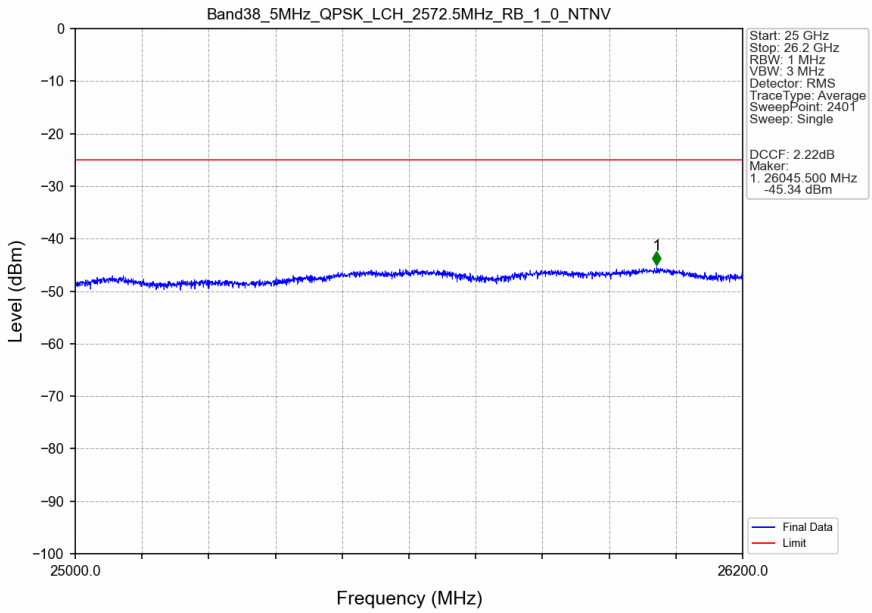
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



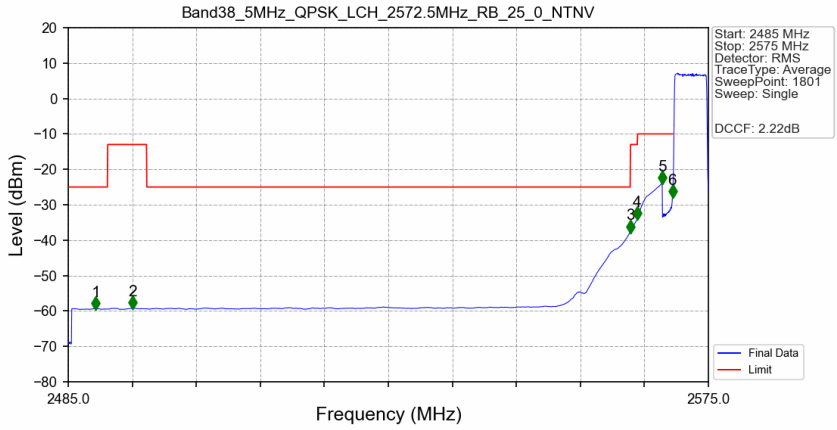
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

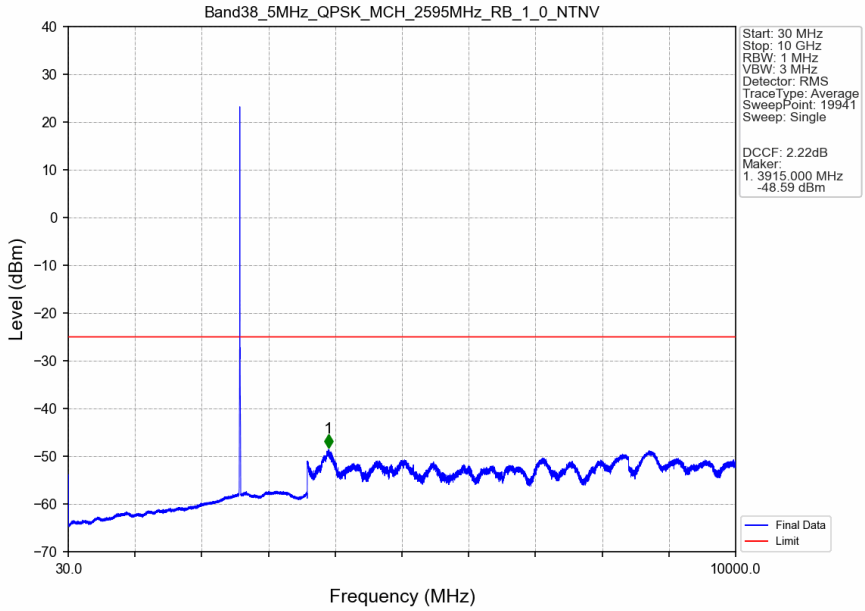


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

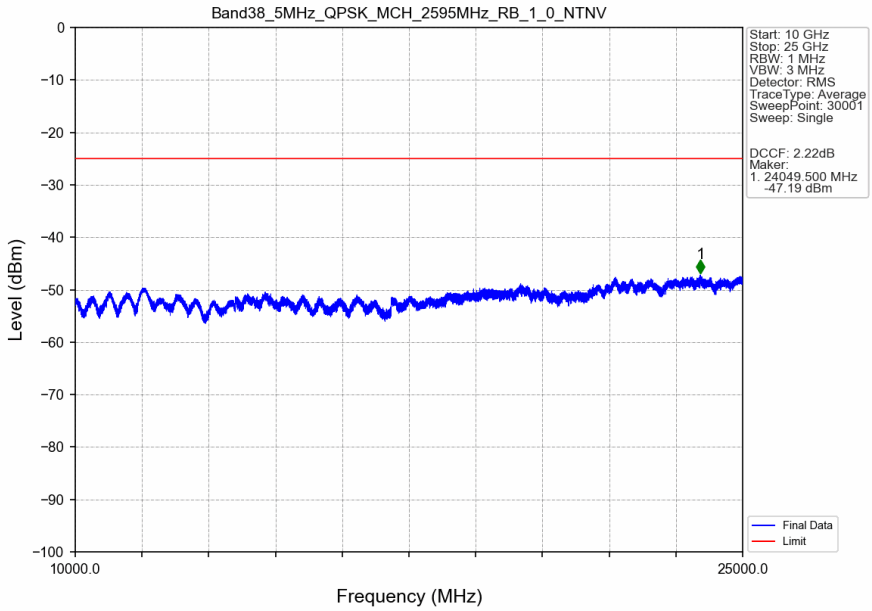


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.850	-59.33	-25	Pass
2490.5	2496	1	CHP	2	2494.050	-59.24	-13	Pass
2496	2564	1	CHP	3	2564.000	-37.71	-25	Pass
2564	2565	1	CHP	4	2565.000	-33.96	-13	Pass
2565	2569	1	CHP	5	2568.500	-23.92	-10	Pass
2569	2570	0.1	/	6	2569.950	-27.77	-10	Pass
2570	2575	0.1	/	/	/	/	/	/

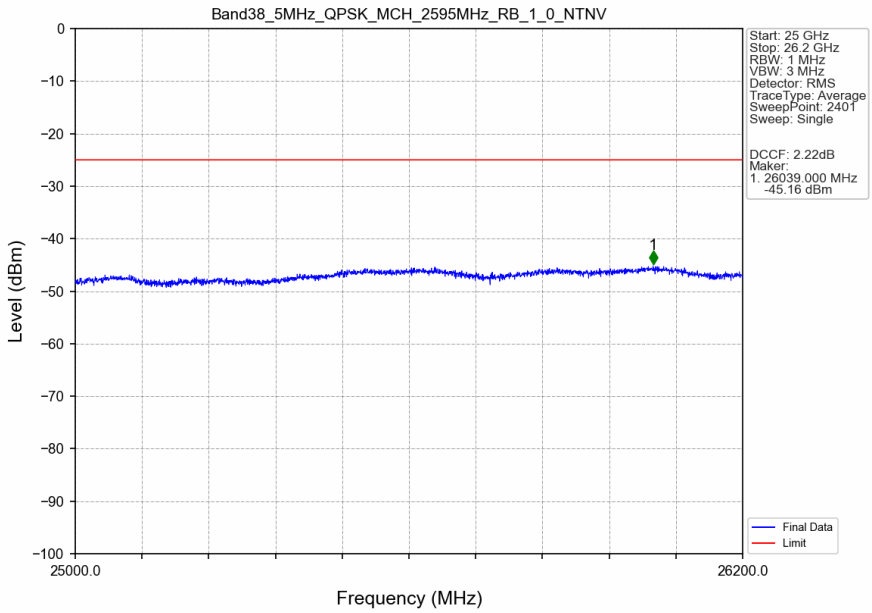
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



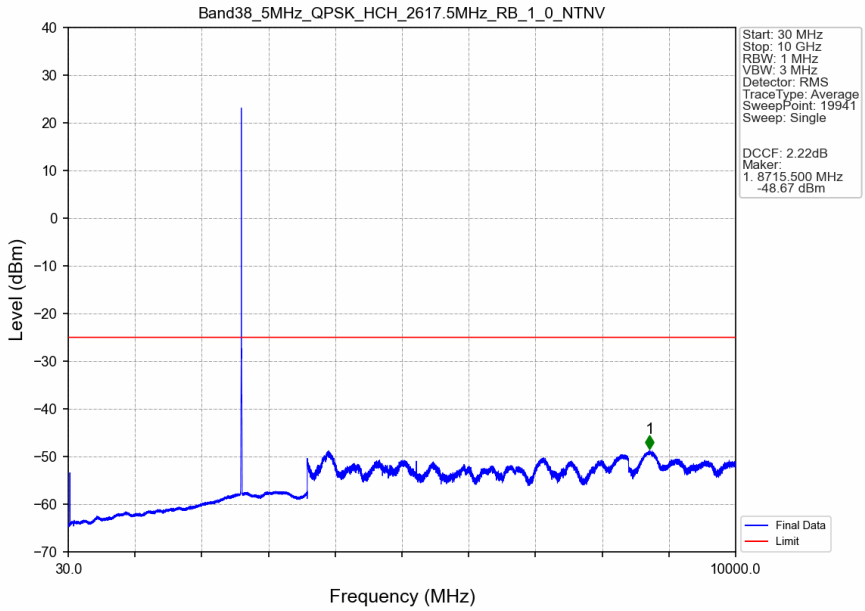
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



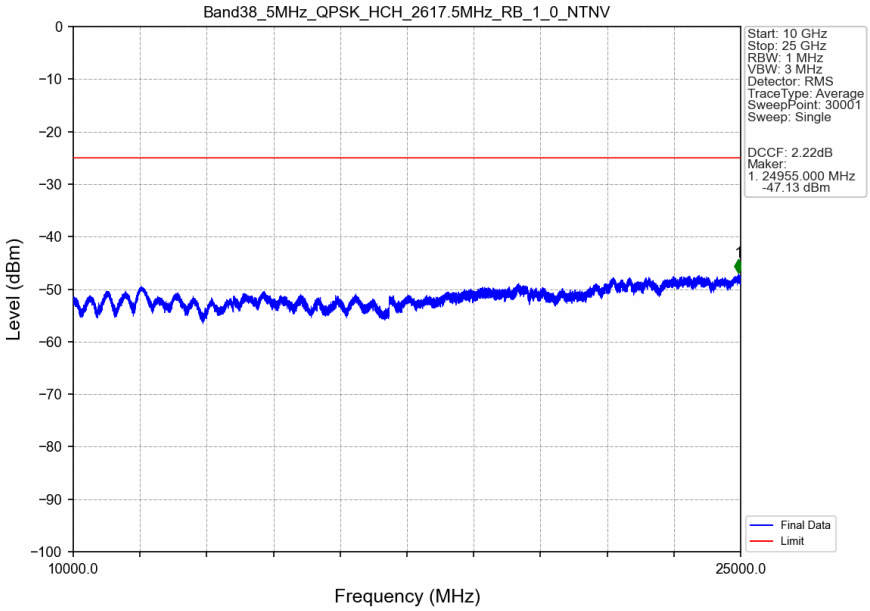
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



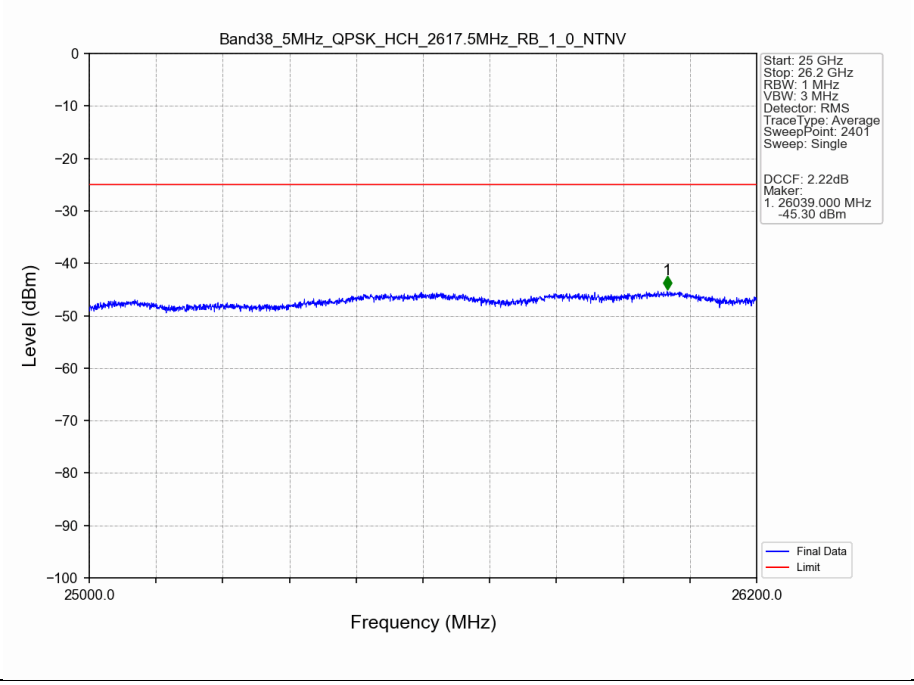
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



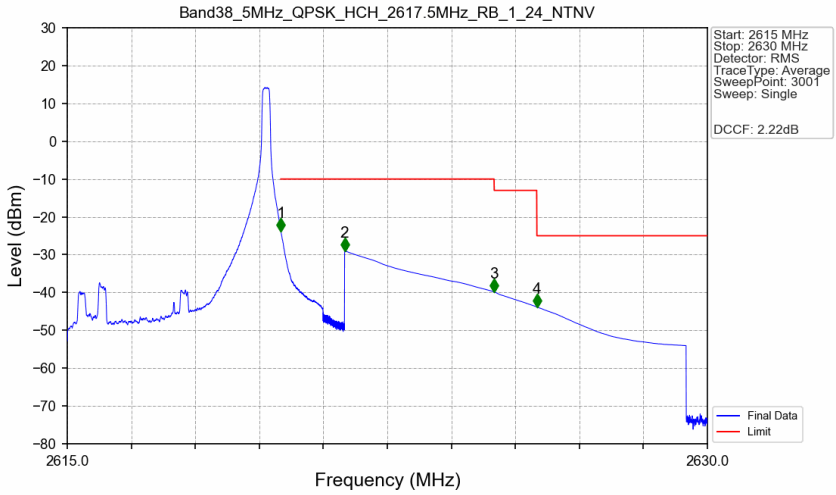
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV

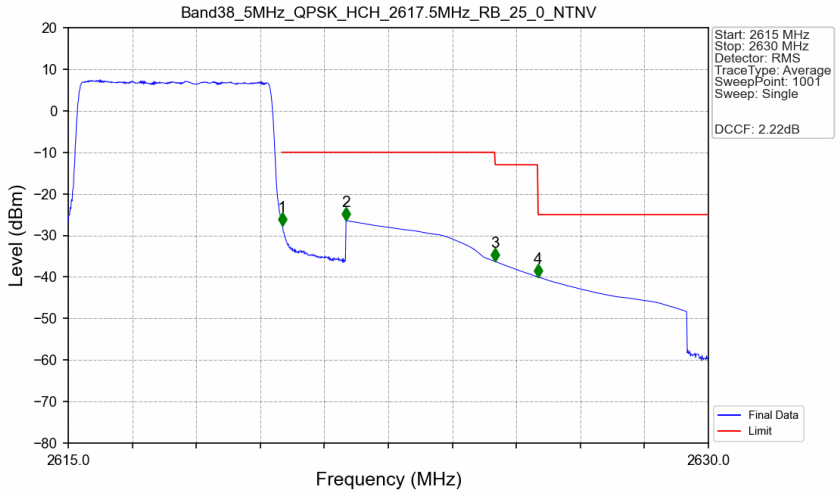


Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-23.91	-10	Pass
2621	2625	1	CHP	2	2621.500	-28.98	-10	Pass
2625	2626	1	CHP	3	2625.005	-39.87	-13	Pass
2626	2630	1	CHP	4	2626.005	-43.83	-25	Pass

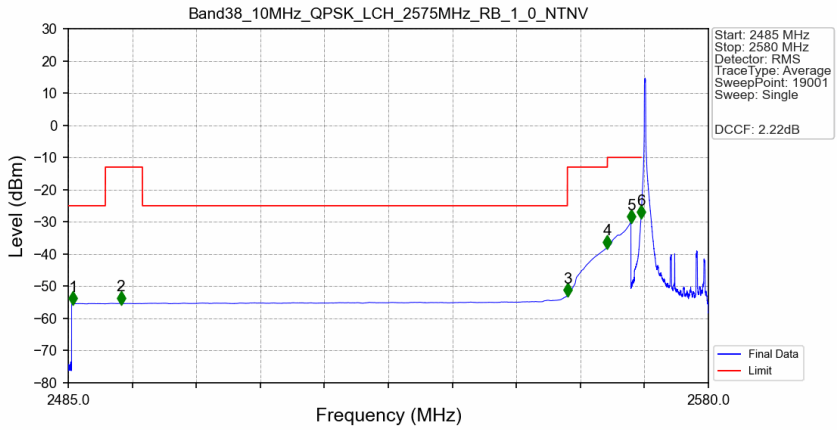
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.1	/	/	/	/	/	/
2620	2621	0.1	/	1	2620.010	-27.72	-10	Pass
2621	2625	1	CHP	2	2621.510	-26.46	-10	Pass
2625	2626	1	CHP	3	2625.005	-36.30	-13	Pass
2626	2630	1	CHP	4	2626.010	-40.03	-25	Pass

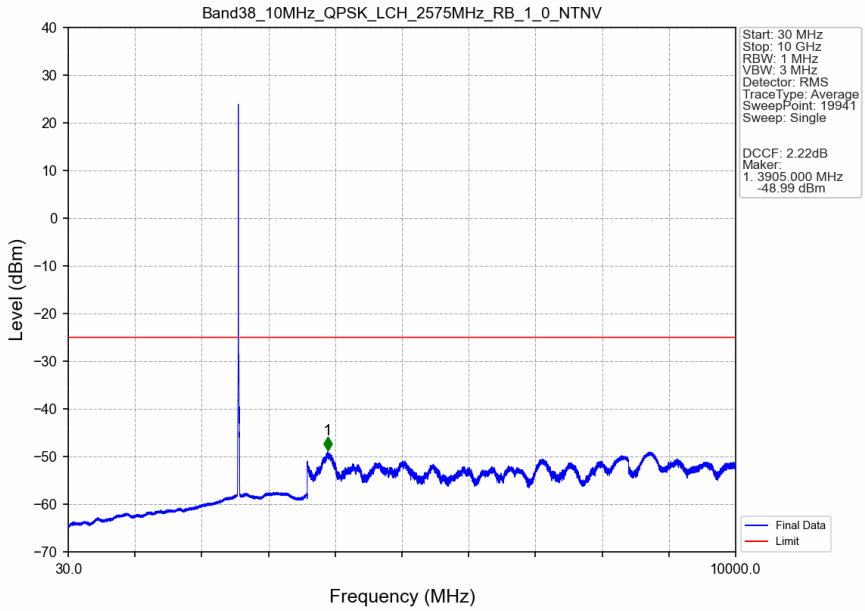
5.2.2 B38_10MHz

Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

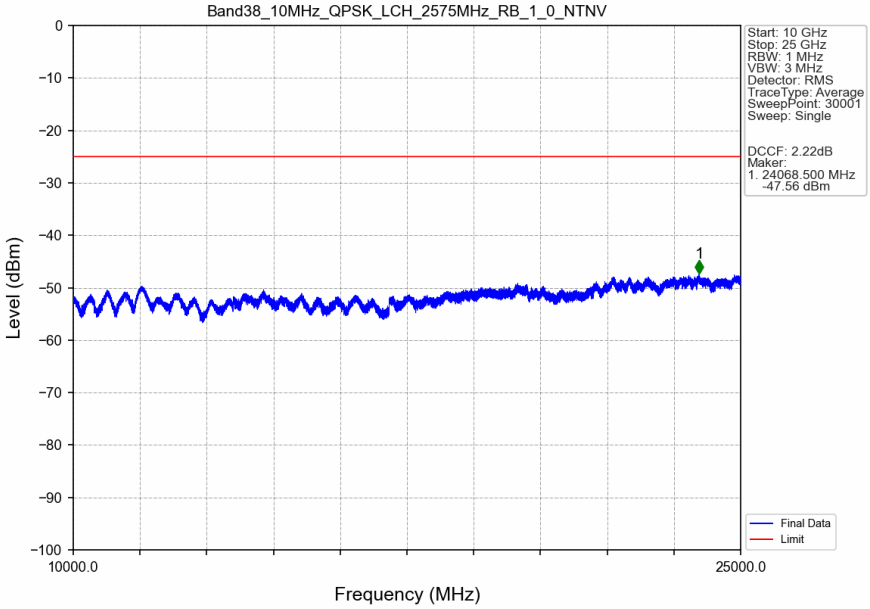


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2485.725	-55.37	-25	Pass
2490.5	2496	1	CHP	2	2492.815	-55.31	-13	Pass
2496	2559.065	1	CHP	3	2559.060	-52.82	-25	Pass
2559.065	2565	1	CHP	4	2564.995	-37.95	-13	Pass
2565	2569	1	CHP	5	2568.500	-29.99	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-28.64	-10	Pass
2570	2580	0.02	CHP	/	/	/	/	/

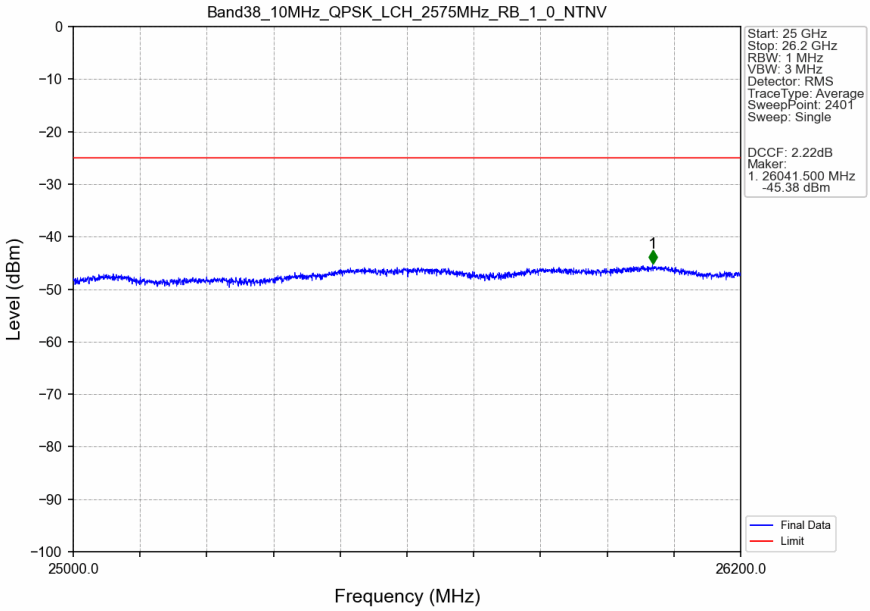
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



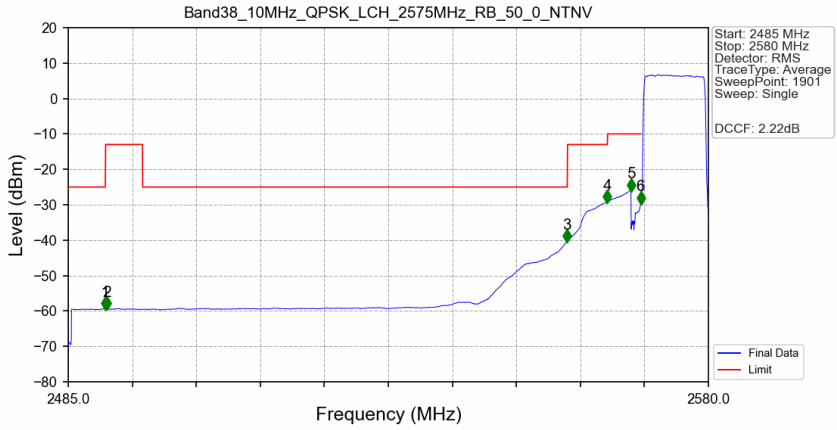
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

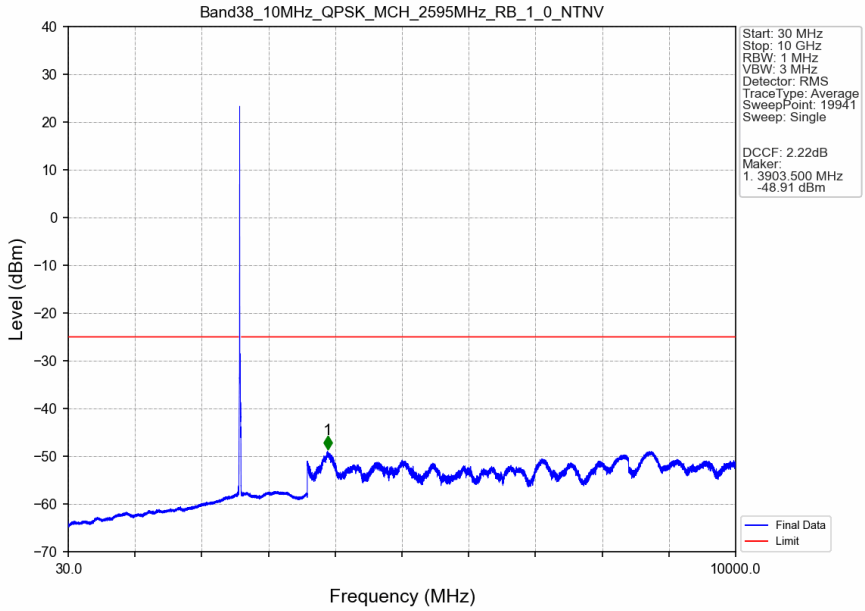


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

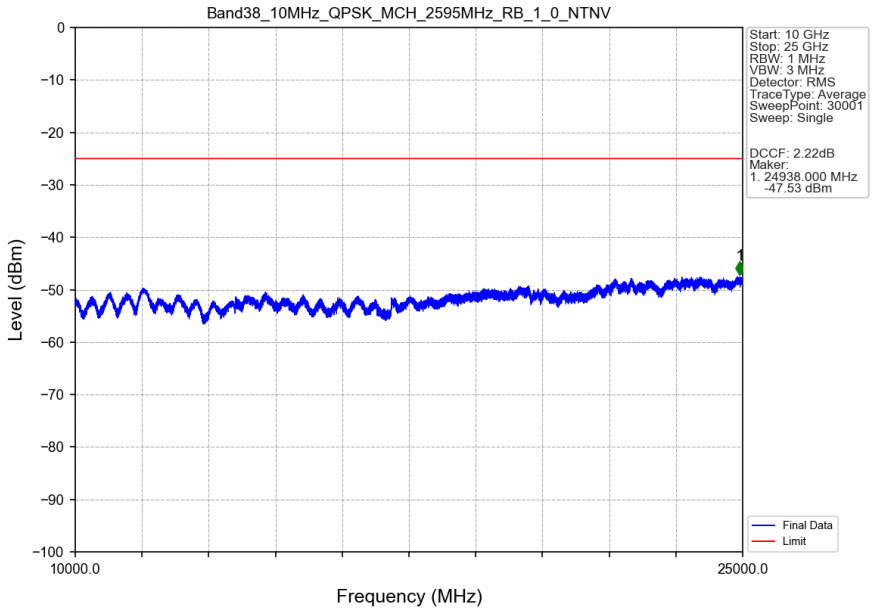


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.450	-59.37	-25	Pass
2490.5	2496	1	CHP	2	2490.700	-59.34	-13	Pass
2496	2559.065	1	CHP	3	2559.050	-40.33	-25	Pass
2559.065	2565	1	CHP	4	2565.000	-29.27	-13	Pass
2565	2569	1	CHP	5	2568.500	-25.96	-10	Pass
2569	2570	0.219	CHP	6	2569.950	-29.60	-10	Pass
2570	2580	0.219	CHP	/	/	/	/	/

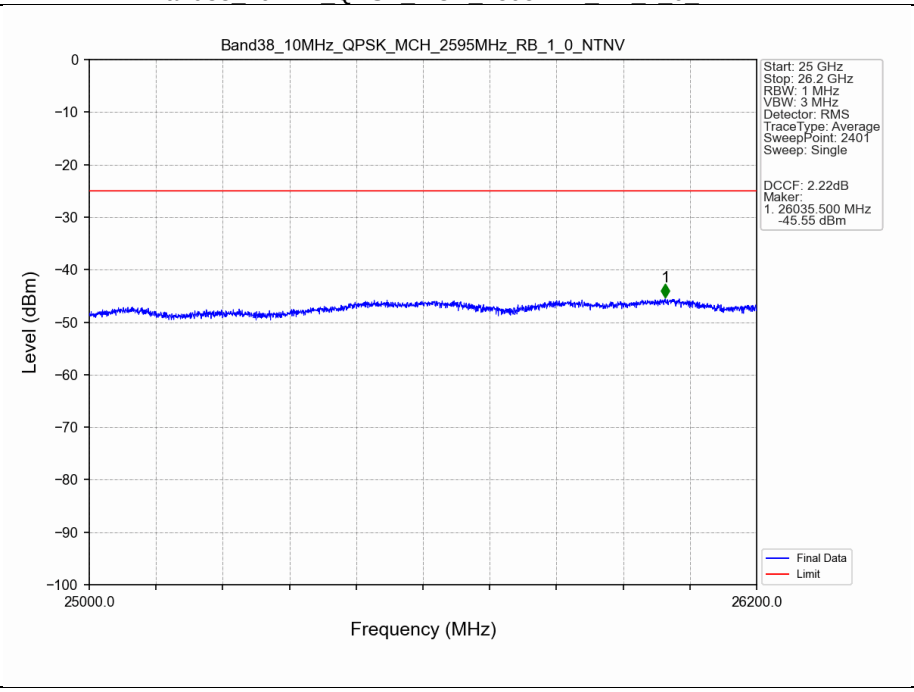
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



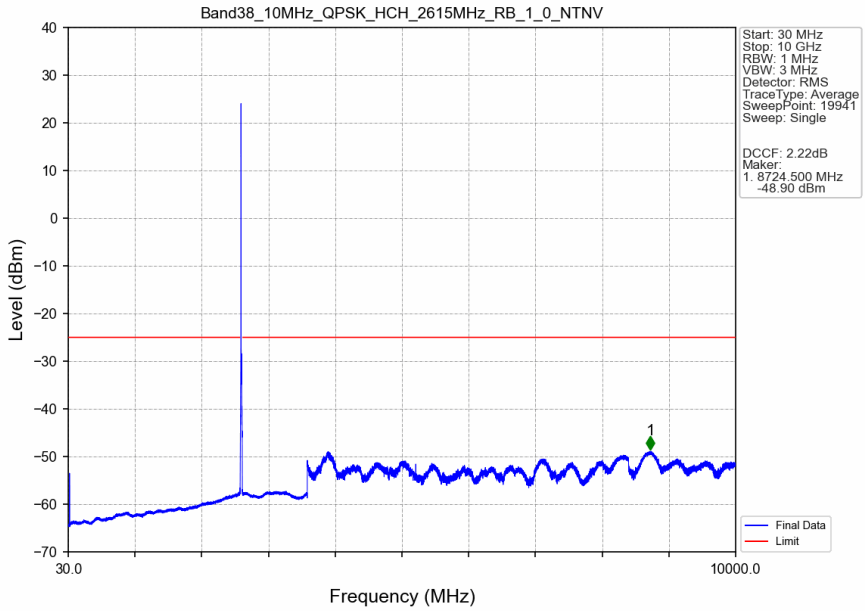
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



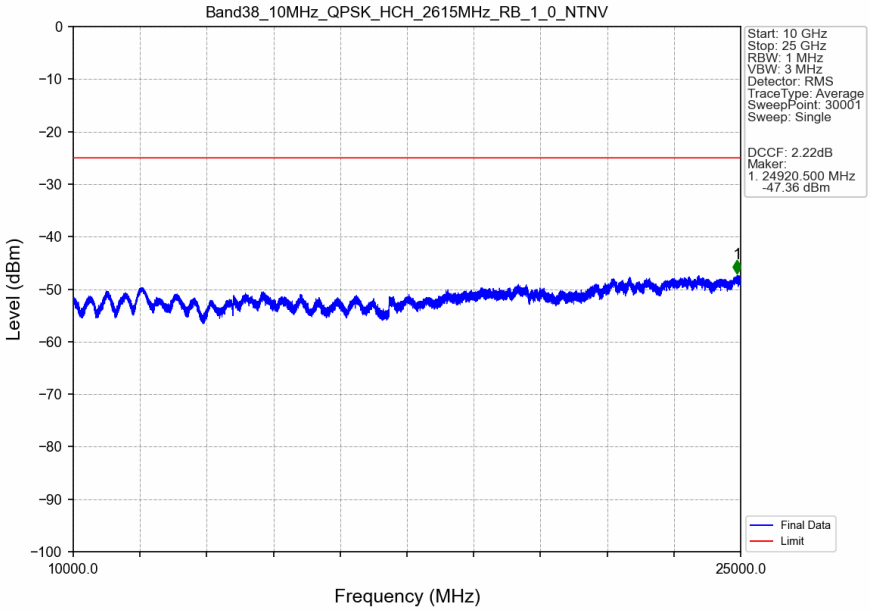
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



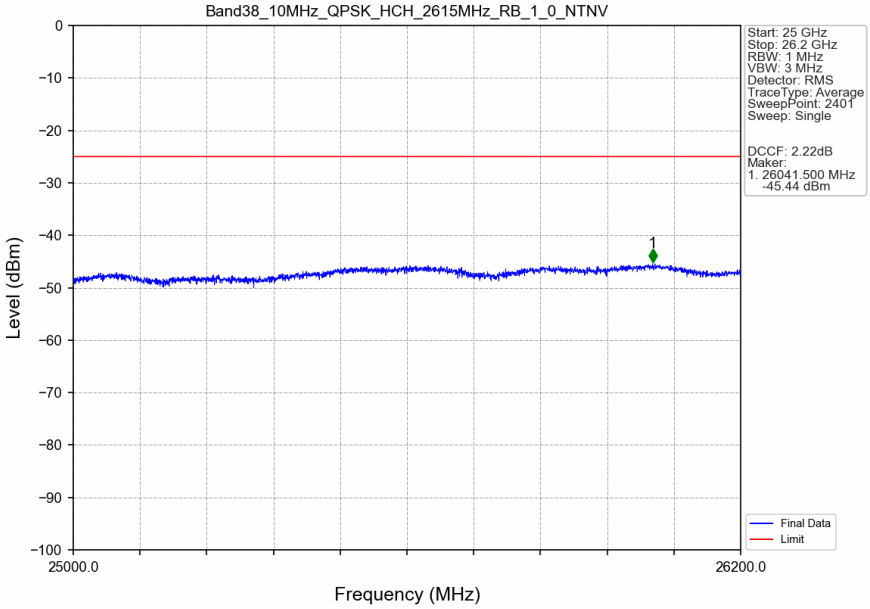
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



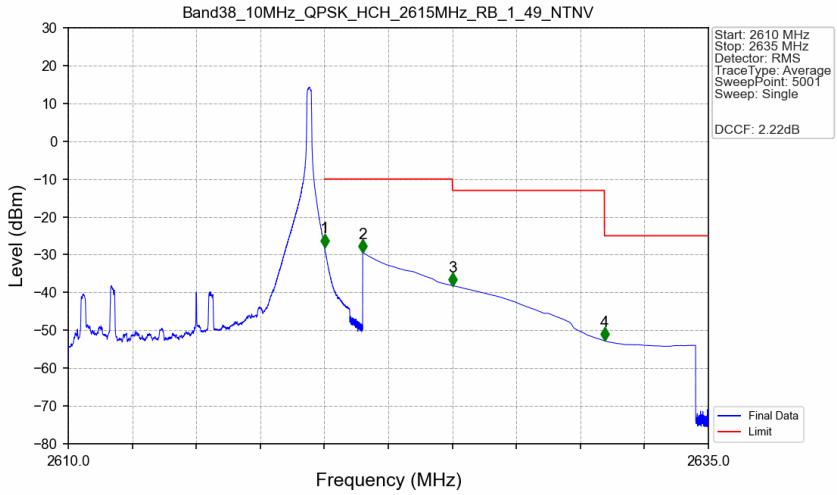
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV

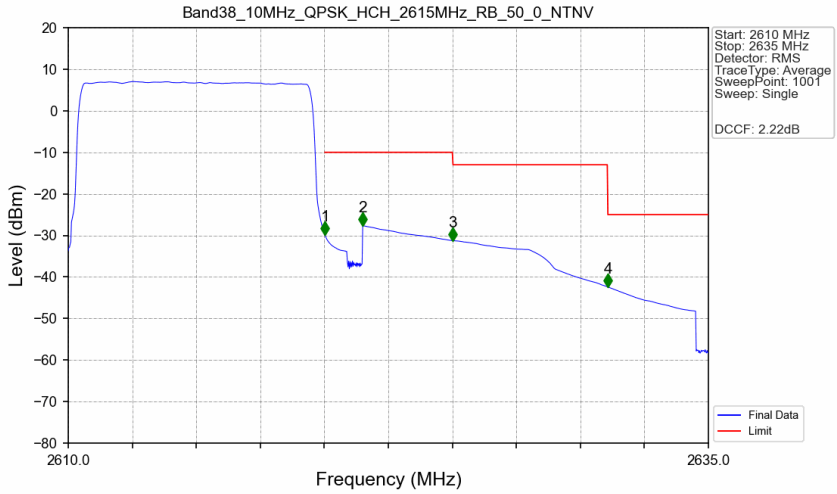


Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-27.95	-10	Pass
2621	2625	1	CHP	2	2621.500	-29.41	-10	Pass
2625	2630.935	1	CHP	3	2625.005	-38.19	-13	Pass
2630.935	2635	1	CHP	4	2630.940	-52.78	-25	Pass

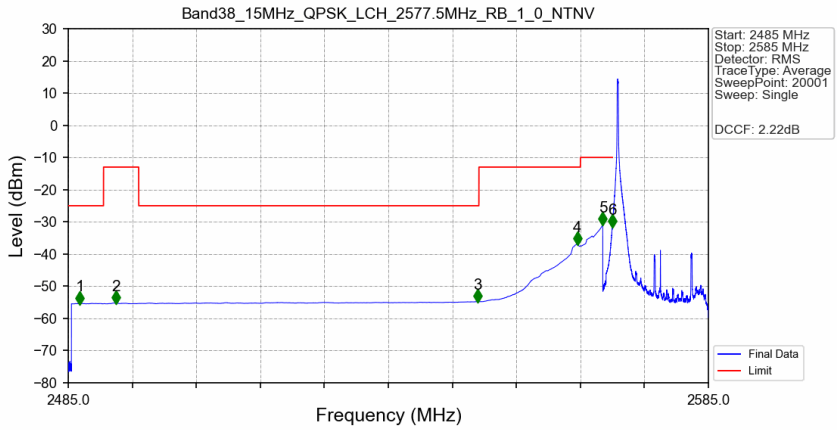
Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.221	CHP	/	/	/	/	/
2620	2621	0.221	CHP	1	2620.025	-29.93	-10	Pass
2621	2625	1	CHP	2	2621.500	-27.65	-10	Pass
2625	2631.058	1	CHP	3	2625.025	-31.27	-13	Pass
2631.058	2635	1	CHP	4	2631.075	-42.43	-25	Pass

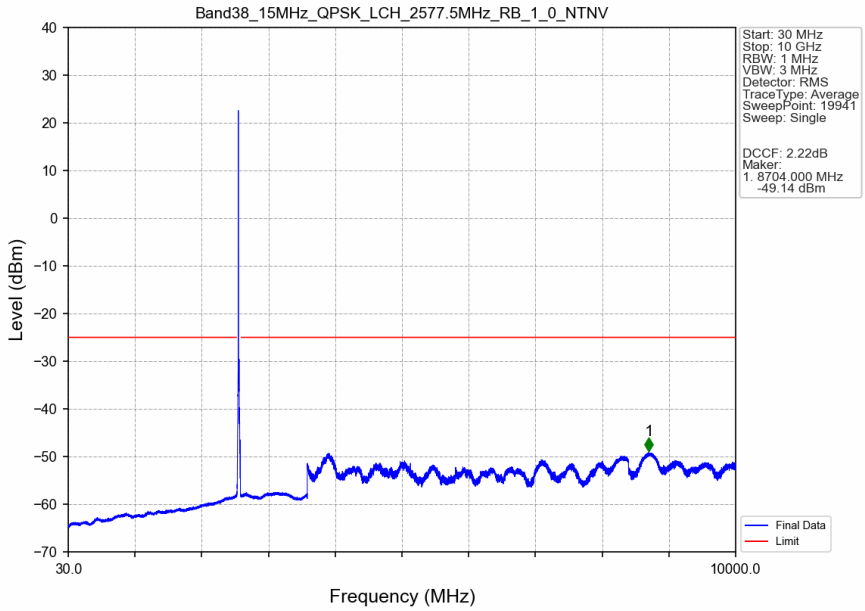
5.2.3 B38_15MHz

Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

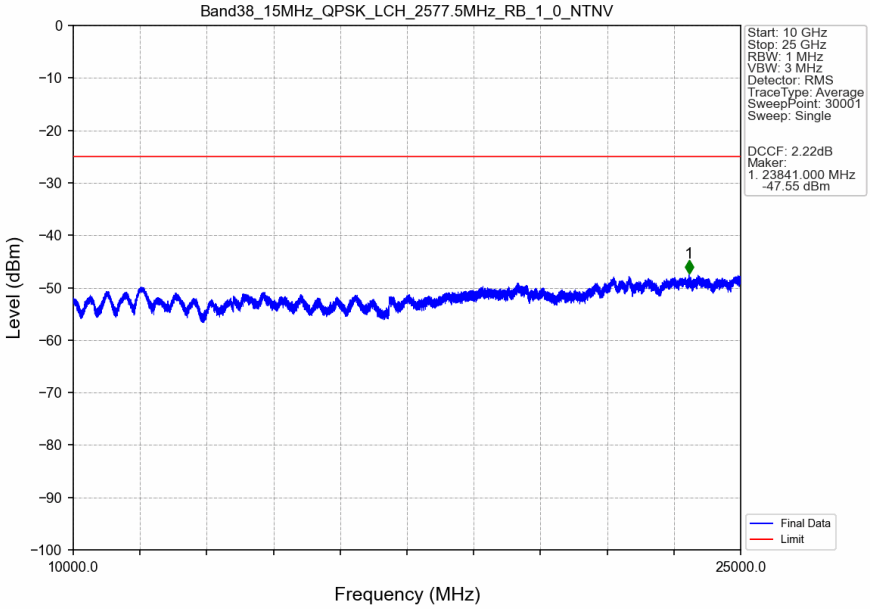


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2486.820	-55.32	-25	Pass
2490.5	2496	1	CHP	2	2492.475	-55.22	-13	Pass
2496	2549.146	1	CHP	3	2548.910	-54.76	-25	Pass
2549.146	2565	1	CHP	4	2564.540	-36.88	-13	Pass
2565	2569	1	CHP	5	2568.500	-30.82	-10	Pass
2569	2570	0.02	CHP	6	2569.990	-31.53	-10	Pass
2570	2585	0.02	CHP	/	/	/	/	/

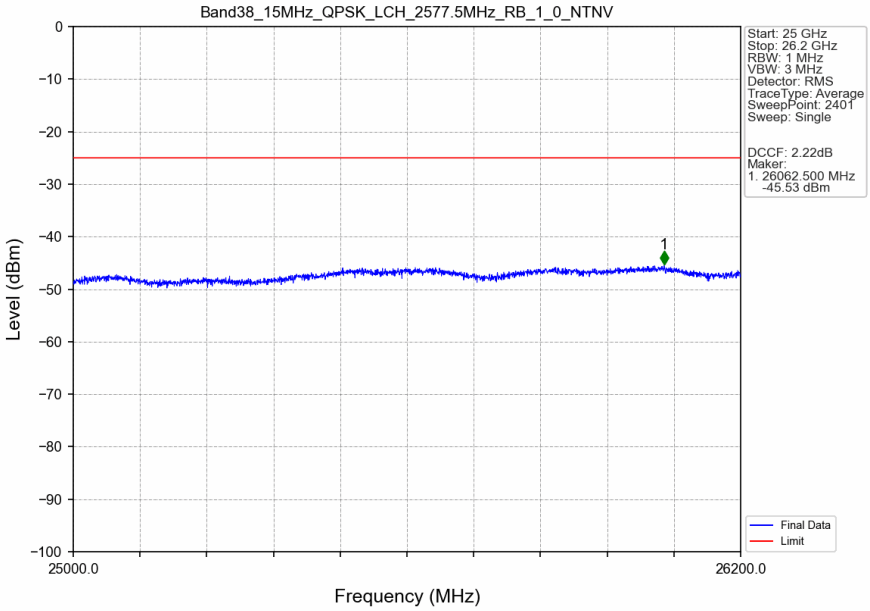
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



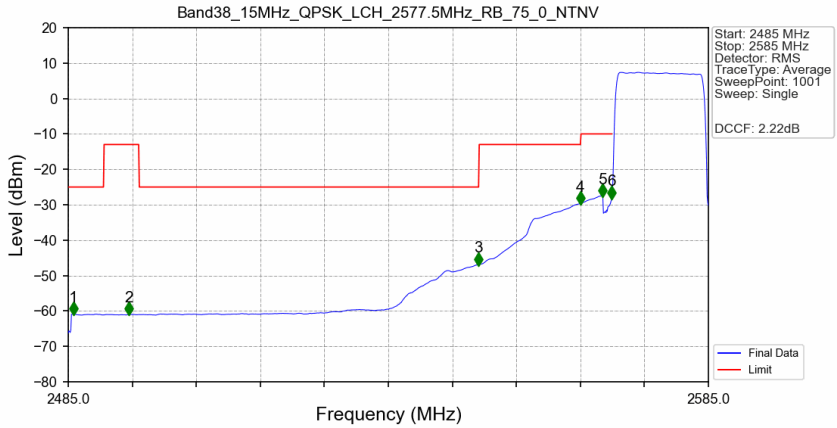
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

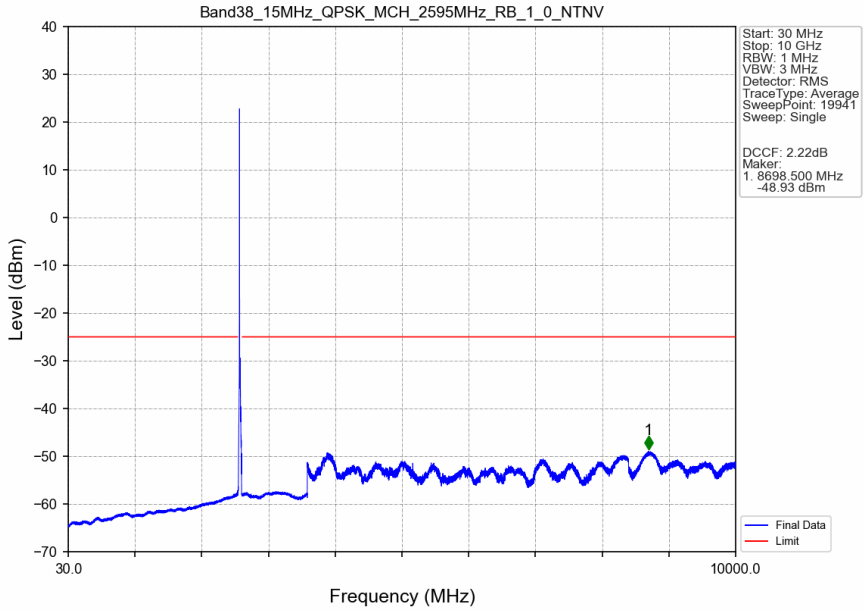


Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

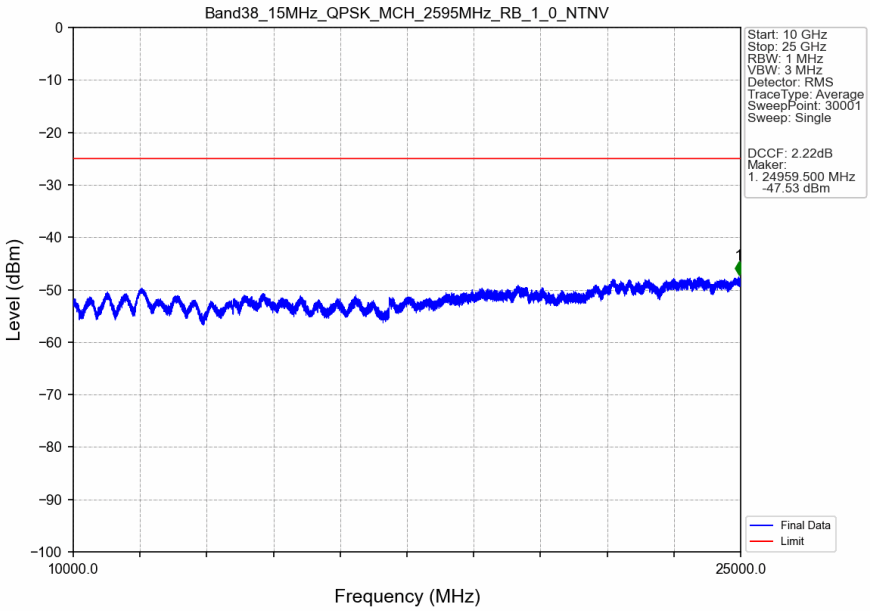


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2485.800	-60.91	-25	Pass
2490.5	2496	1	CHP	2	2494.500	-60.96	-13	Pass
2496	2549.146	1	CHP	3	2549.100	-46.90	-25	Pass
2549.146	2565	1	CHP	4	2565.000	-29.64	-13	Pass
2565	2569	1	CHP	5	2568.400	-27.48	-10	Pass
2569	2570	0.417	CHP	6	2569.900	-28.10	-10	Pass
2570	2585	0.417	CHP	/	/	/	/	/

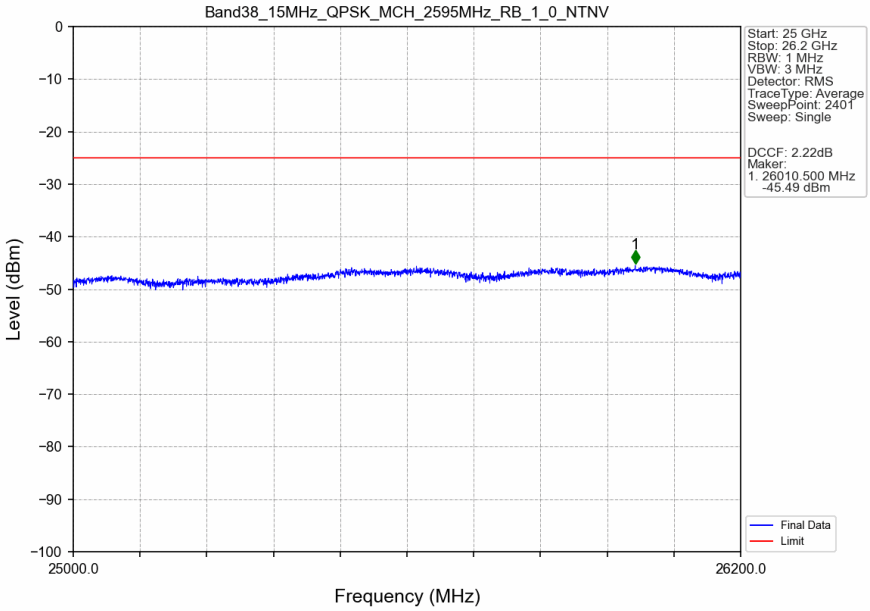
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



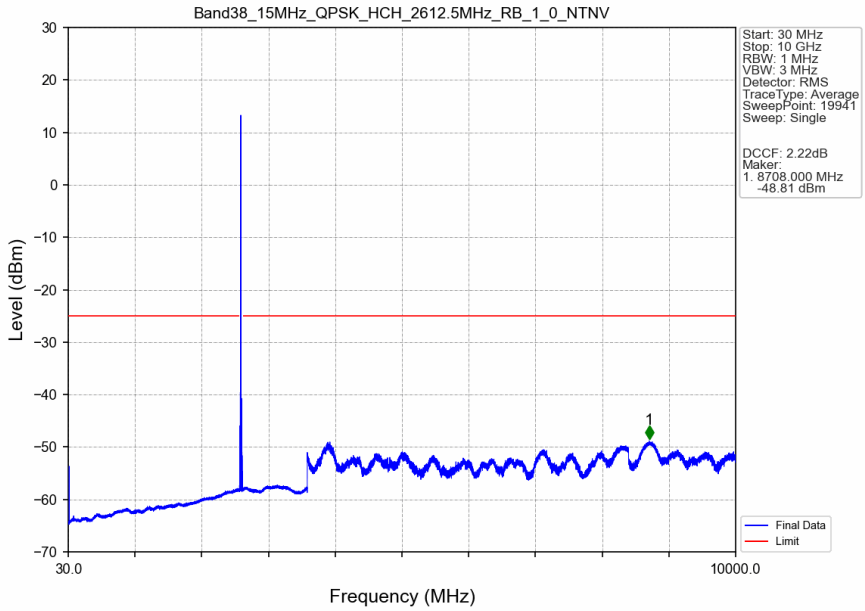
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



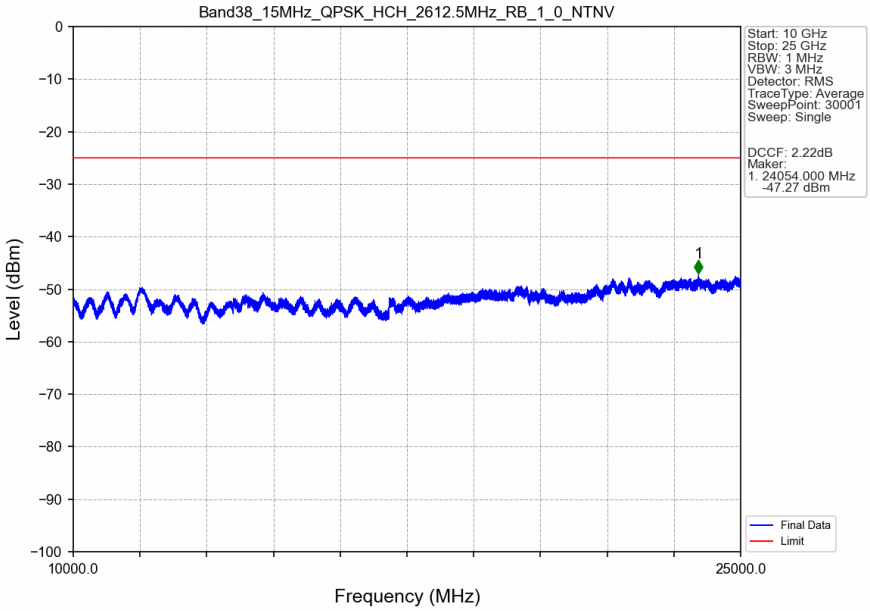
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



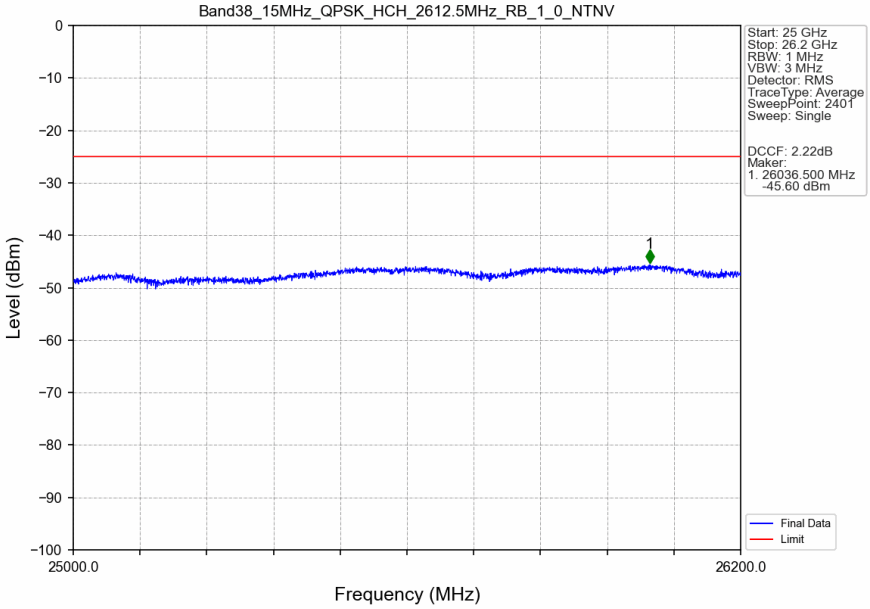
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



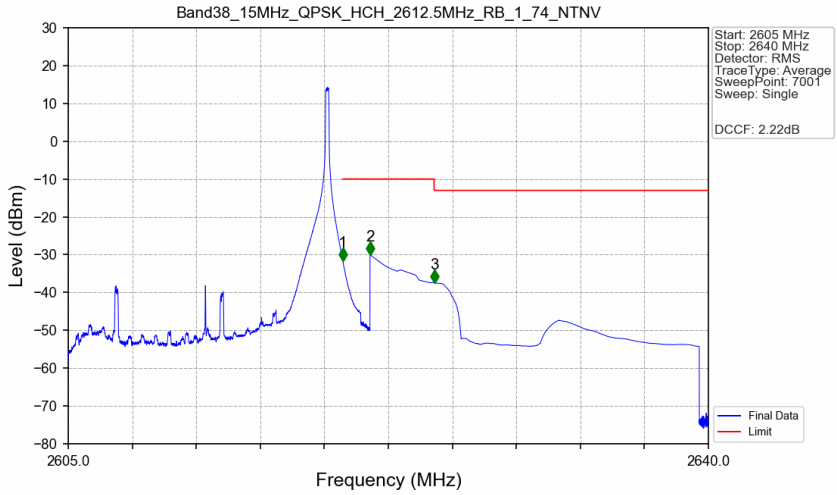
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV

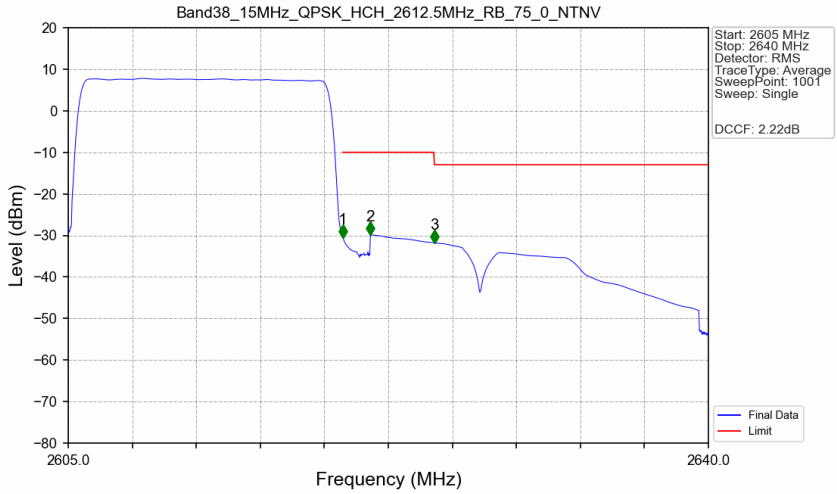


Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-31.62	-10	Pass
2621	2625	1	CHP	2	2621.500	-29.98	-10	Pass
2625	2640	1	CHP	3	2625.005	-37.37	-13	Pass

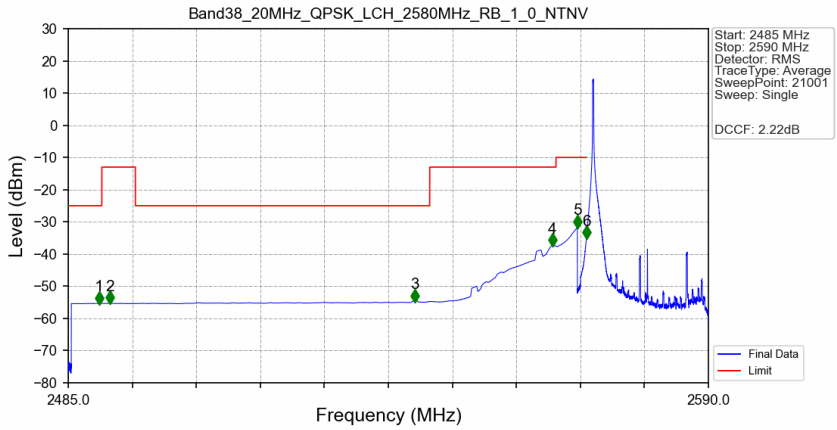
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.417	CHP	/	/	/	/	/
2620	2621	0.417	CHP	1	2620.015	-30.56	-10	Pass
2621	2625	1	CHP	2	2621.520	-29.87	-10	Pass
2625	2640	1	CHP	3	2625.020	-31.82	-13	Pass

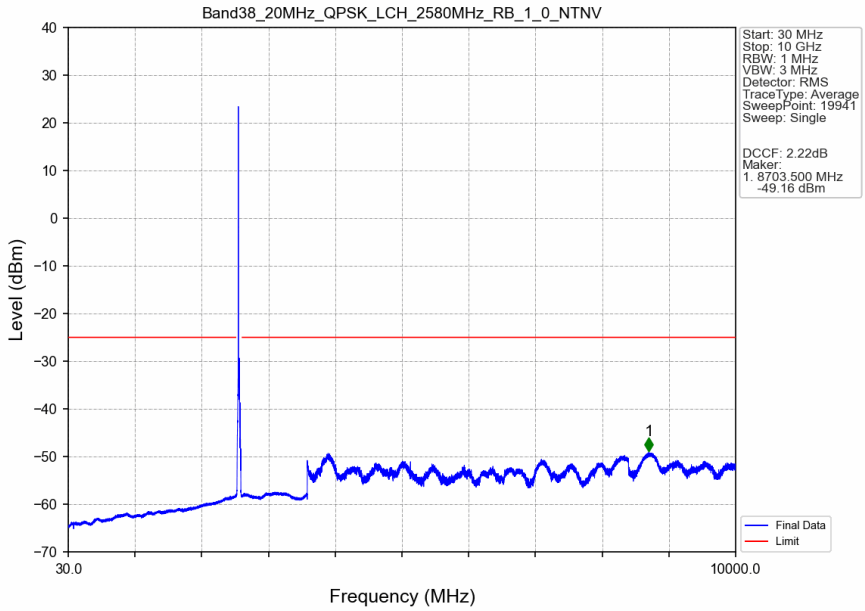
5.2.4 B38_20MHz

Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

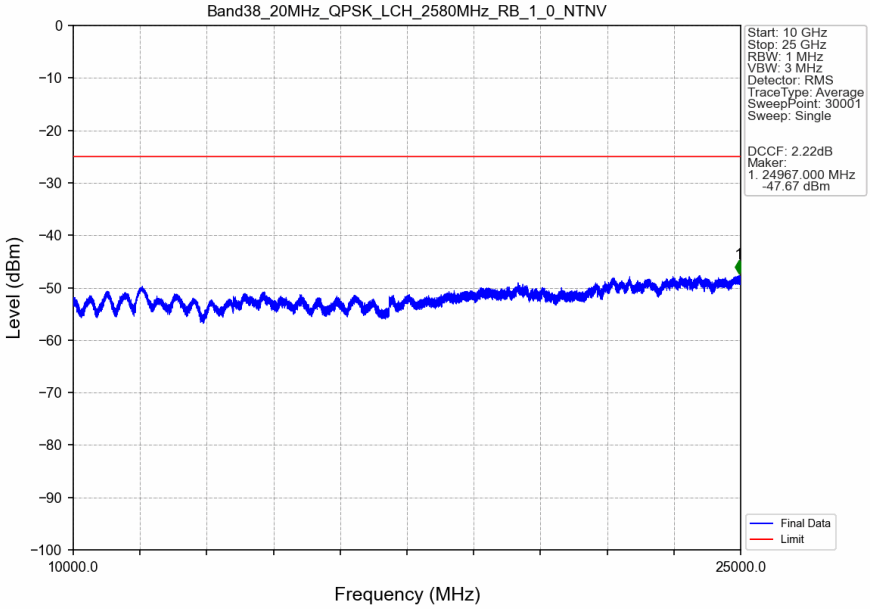


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.040	-55.30	-25	Pass
2490.5	2496	1	CHP	2	2491.870	-55.28	-13	Pass
2496	2544.287	1	CHP	3	2541.885	-54.60	-25	Pass
2544.287	2565	1	CHP	4	2564.435	-37.34	-13	Pass
2565	2569	1	CHP	5	2568.500	-31.61	-10	Pass
2569	2570	0.02	CHP	6	2569.995	-35.04	-10	Pass
2570	2590	0.02	CHP	/	/	/	/	/

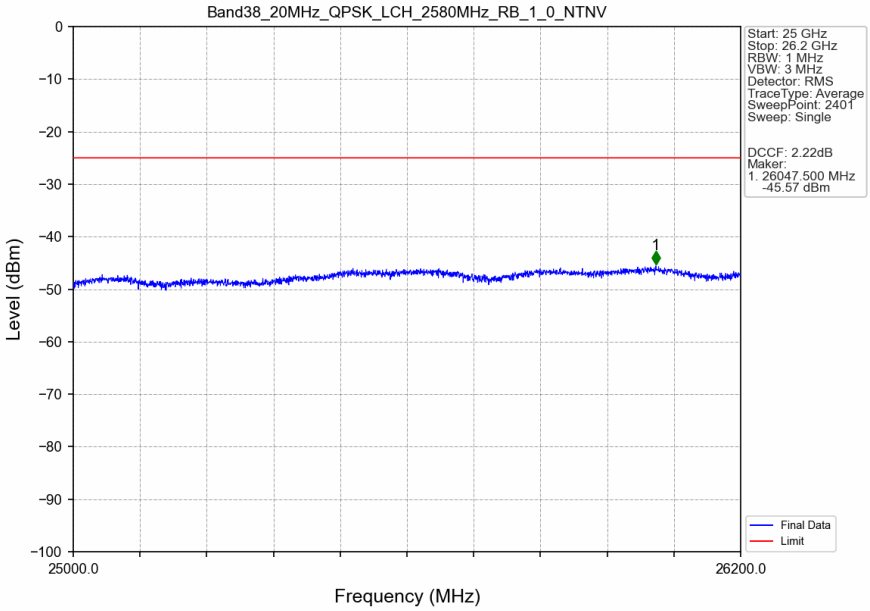
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



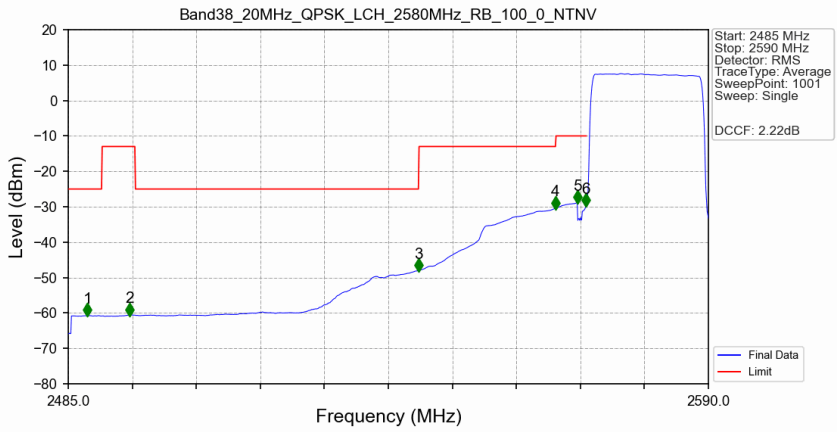
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

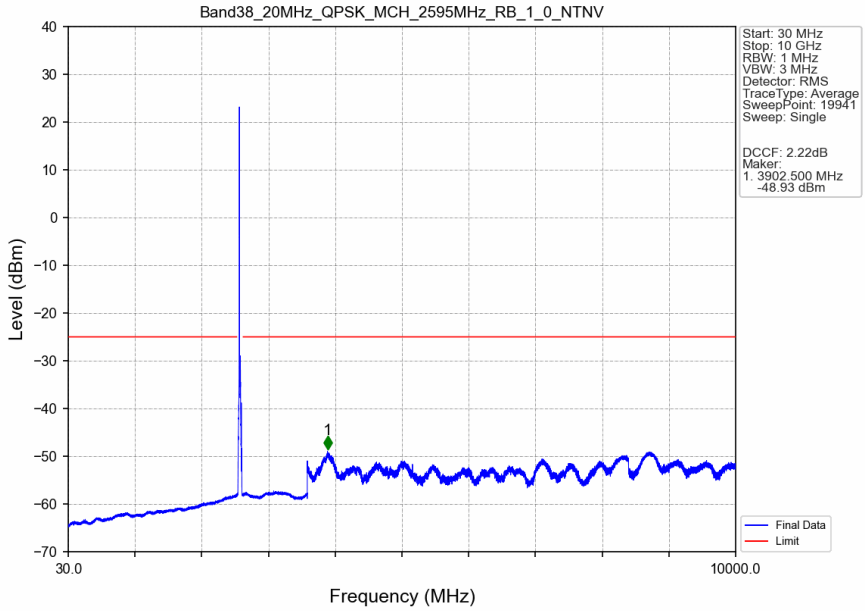


Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

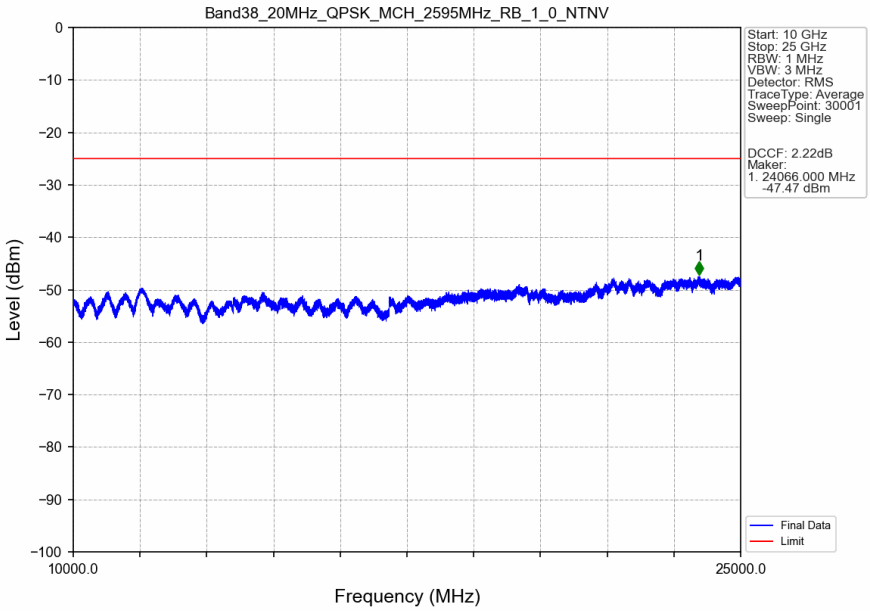


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.150	-60.73	-25	Pass
2490.5	2496	1	CHP	2	2495.080	-60.55	-13	Pass
2496	2542.448	1	CHP	3	2542.435	-48.05	-25	Pass
2542.448	2565	1	CHP	4	2564.905	-30.47	-13	Pass
2565	2569	1	CHP	5	2568.475	-28.82	-10	Pass
2569	2570	0.551	CHP	6	2569.945	-29.62	-10	Pass
2570	2590	0.551	CHP	/	/	/	/	/

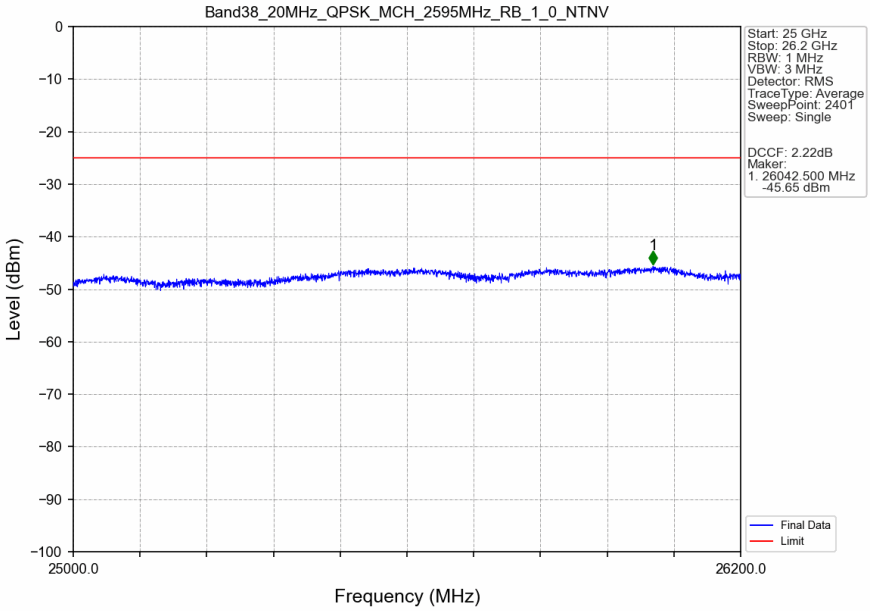
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



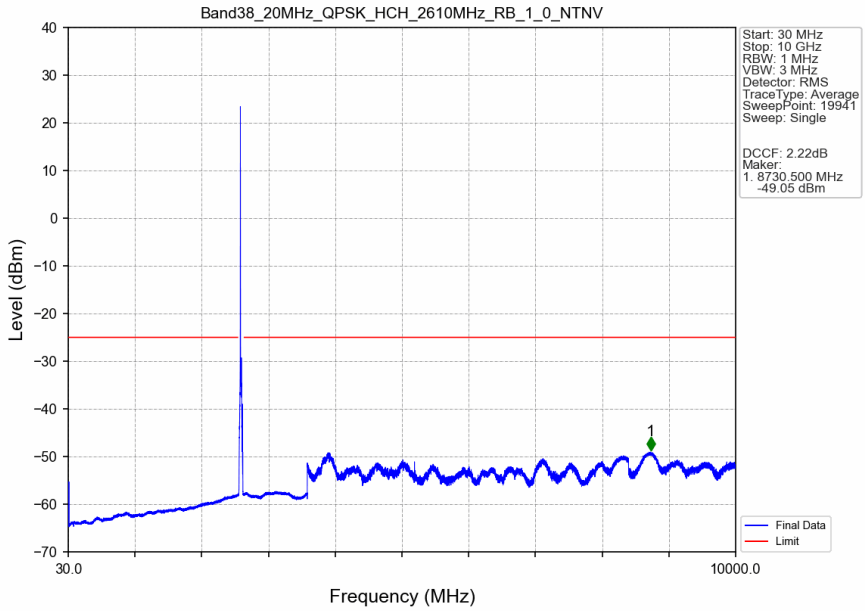
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



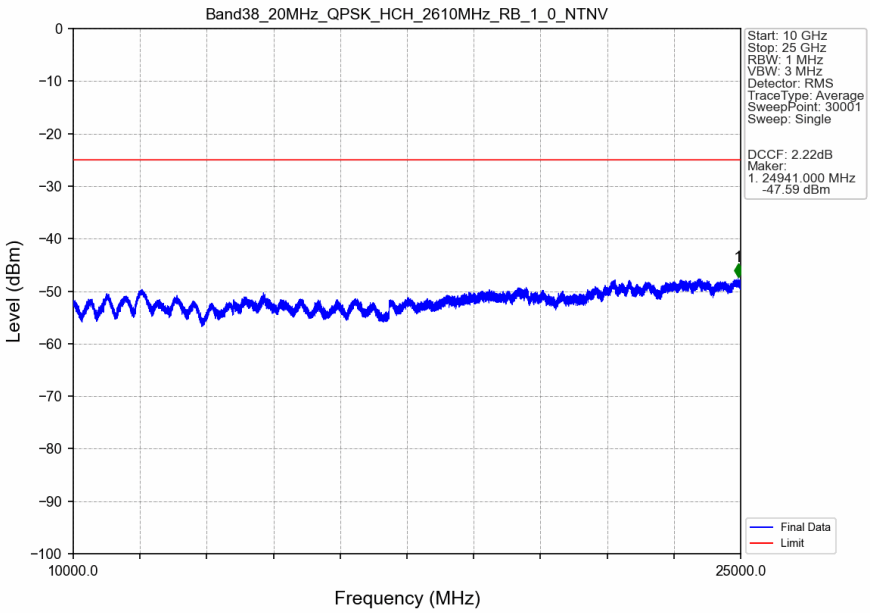
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



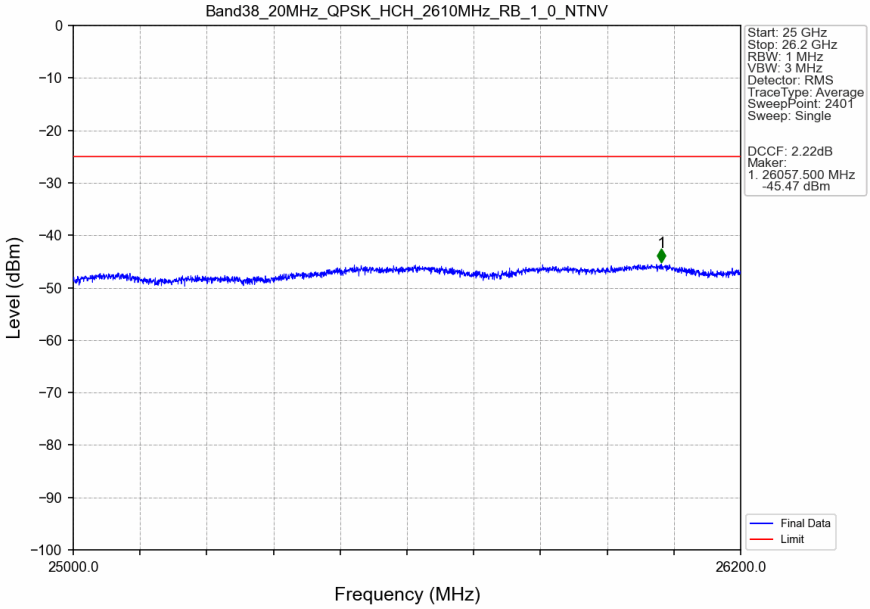
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



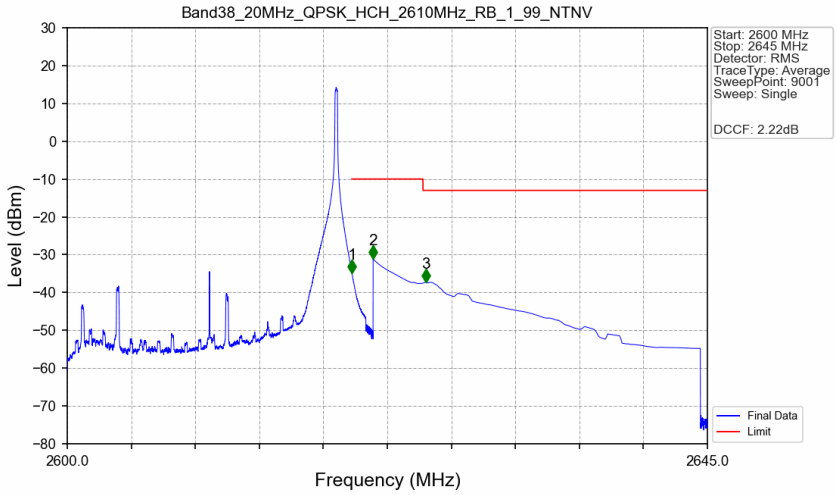
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV

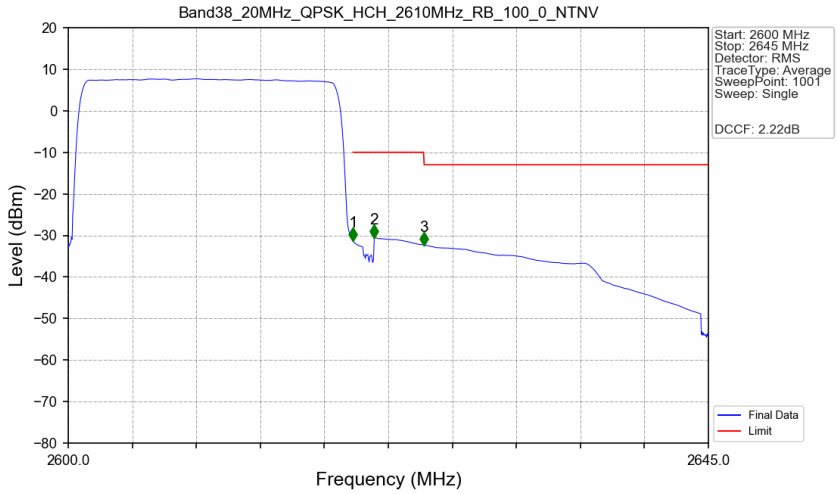


Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-34.81	-10	Pass
2621	2625	1	CHP	2	2621.500	-31.14	-10	Pass
2625	2645	1	CHP	3	2625.190	-37.29	-13	Pass

Band38_20MHz_QPSK_HCH_2610MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.551	CHP	/	/	/	/	/
2620	2621	0.551	CHP	1	2620.025	-31.39	-10	Pass
2621	2625	1	CHP	2	2621.510	-30.61	-10	Pass
2625	2645	1	CHP	3	2625.020	-32.38	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 38-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
5142	-64.17	-25	-39.17	-69.78	4.62	10.23	Horizontal	Pass
7713	-60.05	-25	-35.05	-67.08	4.96	11.99	Horizontal	Pass
10284	-56.8	-25	-31.8	-64.37	5.51	13.08	Horizontal	Pass
5142	-63.52	-25	-38.52	-69.13	4.62	10.23	Vertical	Pass
7713	-60.23	-25	-35.23	-67.26	4.96	11.99	Vertical	Pass
10284	-57.2	-25	-32.2	-64.77	5.51	13.08	Vertical	Pass

LTE Band 38-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
5172	-64.31	-25	-39.31	-69.93	4.63	10.25	Horizontal	Pass
7758	-59.32	-25	-34.32	-66.4	4.96	12.04	Horizontal	Pass
10344	-57.0	-25	-32.0	-64.57	5.52	13.09	Horizontal	Pass
5172	-63.85	-25	-38.85	-69.47	4.63	10.25	Vertical	Pass
7758	-59.51	-25	-34.51	-66.59	4.96	12.04	Vertical	Pass
10344	-56.61	-25	-31.61	-64.18	5.52	13.09	Vertical	Pass

LTE Band 38-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	**EIRP (dBm)**	**Limit (dBm)**	**Over Limit (dB)**	**S.G. Power (dBm)**	**Cable Loss (dB)**	**Antenna Gain (dBi)**	**Polarization (H/V)**	**Result**
5202	-63.86	-25	-38.86	-69.5	4.63	10.27	Horizontal	Pass
7803	-59.5	-25	-34.5	-66.64	4.96	12.1	Horizontal	Pass
10404	-56.64	-25	-31.64	-64.22	5.52	13.1	Horizontal	Pass
5202	-64.27	-25	-39.27	-69.91	4.63	10.27	Vertical	Pass
7803	-59.22	-25	-34.22	-66.36	4.96	12.1	Vertical	Pass
10404	-57.19	-25	-32.19	-64.77	5.52	13.1	Vertical	Pass