

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	21.58	-2.51	19.07	<=33.01	Pass
			13	21.51	-2.51	19.00	<=33.01	Pass
			24	21.47	-2.51	18.96	<=33.01	Pass
		12	0	20.41	-2.51	17.90	<=33.01	Pass
			6	20.54	-2.51	18.03	<=33.01	Pass
			13	20.39	-2.51	17.88	<=33.01	Pass
		25	0	20.58	-2.51	18.07	<=33.01	Pass
	2595	1	0	21.37	-2.51	18.86	<=33.01	Pass
			13	21.39	-2.51	18.88	<=33.01	Pass
			24	21.32	-2.51	18.81	<=33.01	Pass
		12	0	20.42	-2.51	17.91	<=33.01	Pass
			6	20.39	-2.51	17.88	<=33.01	Pass
			13	20.38	-2.51	17.87	<=33.01	Pass
		25	0	20.44	-2.51	17.93	<=33.01	Pass
	2617.5	1	0	21.37	-2.51	18.86	<=33.01	Pass
			13	21.53	-2.51	19.02	<=33.01	Pass
			24	21.60	-2.51	19.09	<=33.01	Pass
		12	0	20.48	-2.51	17.97	<=33.01	Pass
			6	20.53	-2.51	18.02	<=33.01	Pass
			13	20.45	-2.51	17.94	<=33.01	Pass
		25	0	20.53	-2.51	18.02	<=33.01	Pass
16QAM	2572.5	1	0	20.68	-2.51	18.17	<=33.01	Pass
			13	20.61	-2.51	18.10	<=33.01	Pass
			24	20.56	-2.51	18.05	<=33.01	Pass
		12	0	19.53	-2.51	17.02	<=33.01	Pass
			6	19.51	-2.51	17.00	<=33.01	Pass
			13	19.39	-2.51	16.88	<=33.01	Pass
		25	0	19.58	-2.51	17.07	<=33.01	Pass
	2595	1	0	20.44	-2.51	17.93	<=33.01	Pass
			13	20.34	-2.51	17.83	<=33.01	Pass
			24	20.39	-2.51	17.88	<=33.01	Pass
		12	0	19.36	-2.51	16.85	<=33.01	Pass
			6	19.38	-2.51	16.87	<=33.01	Pass
			13	19.34	-2.51	16.83	<=33.01	Pass
		25	0	19.44	-2.51	16.93	<=33.01	Pass
	2617.5	1	0	20.60	-2.51	18.09	<=33.01	Pass
			13	20.63	-2.51	18.12	<=33.01	Pass
			24	20.69	-2.51	18.18	<=33.01	Pass
		12	0	19.50	-2.51	16.99	<=33.01	Pass
			6	19.55	-2.51	17.04	<=33.01	Pass
			13	19.43	-2.51	16.92	<=33.01	Pass
		25	0	19.59	-2.51	17.08	<=33.01	Pass
64QAM	2572.5	1	0	19.31	-2.51	16.80	<=33.01	Pass
			13	19.24	-2.51	16.73	<=33.01	Pass
			24	19.19	-2.51	16.68	<=33.01	Pass
		12	0	18.42	-2.51	15.91	<=33.01	Pass
			6	18.49	-2.51	15.98	<=33.01	Pass
			13	18.26	-2.51	15.75	<=33.01	Pass
		25	0	18.49	-2.51	15.98	<=33.01	Pass

	2595	1	0	19.07	-2.51	16.56	<=33.01	Pass		
			13	19.08	-2.51	16.57	<=33.01	Pass		
			24	19.02	-2.51	16.51	<=33.01	Pass		
		12	0	18.44	-2.51	15.93	<=33.01	Pass		
			6	18.43	-2.51	15.92	<=33.01	Pass		
			13	18.41	-2.51	15.90	<=33.01	Pass		
		25	0	18.46	-2.51	15.95	<=33.01	Pass		
		2617.5	1	0	19.23	-2.51	16.72	<=33.01	Pass	
				13	19.26	-2.51	16.75	<=33.01	Pass	
	24			19.34	-2.51	16.83	<=33.01	Pass		
	12		0	18.47	-2.51	15.96	<=33.01	Pass		
			6	18.57	-2.51	16.06	<=33.01	Pass		
			13	18.57	-2.51	16.06	<=33.01	Pass		
	25		0	18.58	-2.51	16.07	<=33.01	Pass		
	256QAM		2572.5	1	0	16.47	-2.51	13.96	<=33.01	Pass
					13	16.41	-2.51	13.90	<=33.01	Pass
		24			16.33	-2.51	13.82	<=33.01	Pass	
		12		0	16.65	-2.51	14.14	<=33.01	Pass	
6				16.63	-2.51	14.12	<=33.01	Pass		
13				16.63	-2.51	14.12	<=33.01	Pass		
25		0		16.54	-2.51	14.03	<=33.01	Pass		
2595		1		0	16.16	-2.51	13.65	<=33.01	Pass	
				13	16.23	-2.51	13.72	<=33.01	Pass	
			24	16.08	-2.51	13.57	<=33.01	Pass		
		12	0	16.50	-2.51	13.99	<=33.01	Pass		
			6	16.50	-2.51	13.99	<=33.01	Pass		
			13	16.49	-2.51	13.98	<=33.01	Pass		
		25	0	16.45	-2.51	13.94	<=33.01	Pass		
		2617.5	1	0	16.39	-2.51	13.88	<=33.01	Pass	
				13	16.33	-2.51	13.82	<=33.01	Pass	
24				16.48	-2.51	13.97	<=33.01	Pass		
12			0	16.63	-2.51	14.12	<=33.01	Pass		
			6	16.68	-2.51	14.17	<=33.01	Pass		
			13	16.72	-2.51	14.21	<=33.01	Pass		
25			0	16.65	-2.51	14.14	<=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	21.64	-2.51	19.13	<=33.01	Pass
			25	21.46	-2.51	18.95	<=33.01	Pass
			49	21.47	-2.51	18.96	<=33.01	Pass
		25	0	20.56	-2.51	18.05	<=33.01	Pass
			13	20.53	-2.51	18.02	<=33.01	Pass
			25	20.41	-2.51	17.90	<=33.01	Pass
		50	0	20.55	-2.51	18.04	<=33.01	Pass
	2595	1	0	21.38	-2.51	18.87	<=33.01	Pass
			25	21.38	-2.51	18.87	<=33.01	Pass
			49	21.36	-2.51	18.85	<=33.01	Pass
		25	0	20.40	-2.51	17.89	<=33.01	Pass
			13	20.40	-2.51	17.89	<=33.01	Pass
			25	20.35	-2.51	17.84	<=33.01	Pass
		50	0	20.39	-2.51	17.88	<=33.01	Pass
	2615	1	0	21.48	-2.51	18.97	<=33.01	Pass

		25	25	21.54	-2.51	19.03	<=33.01	Pass
			49	21.59	-2.51	19.08	<=33.01	Pass
			0	20.51	-2.51	18.00	<=33.01	Pass
			13	20.51	-2.51	18.00	<=33.01	Pass
			25	20.19	-2.51	17.68	<=33.01	Pass
16QAM	2575	50	0	20.44	-2.51	17.93	<=33.01	Pass
			0	20.71	-2.51	18.20	<=33.01	Pass
			25	20.38	-2.51	17.87	<=33.01	Pass
		1	49	20.55	-2.51	18.04	<=33.01	Pass
			0	19.55	-2.51	17.04	<=33.01	Pass
			13	19.52	-2.51	17.01	<=33.01	Pass
			25	19.49	-2.51	16.98	<=33.01	Pass
		25	0	19.56	-2.51	17.05	<=33.01	Pass
			0	20.48	-2.51	17.97	<=33.01	Pass
			25	20.22	-2.51	17.71	<=33.01	Pass
	2595	50	49	20.25	-2.51	17.74	<=33.01	Pass
			0	19.42	-2.51	16.91	<=33.01	Pass
			13	19.40	-2.51	16.89	<=33.01	Pass
		1	25	19.33	-2.51	16.82	<=33.01	Pass
			0	19.07	-2.51	16.56	<=33.01	Pass
			0	20.58	-2.51	18.07	<=33.01	Pass
		25	25	20.62	-2.51	18.11	<=33.01	Pass
			49	20.71	-2.51	18.20	<=33.01	Pass
			0	19.57	-2.51	17.06	<=33.01	Pass
	2615	50	13	19.58	-2.51	17.07	<=33.01	Pass
			25	19.61	-2.51	17.10	<=33.01	Pass
			0	19.54	-2.51	17.03	<=33.01	Pass
64QAM	2575	50	0	19.31	-2.51	16.80	<=33.01	Pass
			25	19.17	-2.51	16.66	<=33.01	Pass
			49	19.14	-2.51	16.63	<=33.01	Pass
		1	0	18.56	-2.51	16.05	<=33.01	Pass
			13	18.56	-2.51	16.05	<=33.01	Pass
			25	18.51	-2.51	16.00	<=33.01	Pass
		25	0	18.56	-2.51	16.05	<=33.01	Pass
			0	19.12	-2.51	16.61	<=33.01	Pass
			25	19.08	-2.51	16.57	<=33.01	Pass
	2595	50	49	19.03	-2.51	16.52	<=33.01	Pass
			0	18.42	-2.51	15.91	<=33.01	Pass
			13	18.44	-2.51	15.93	<=33.01	Pass
		1	25	18.37	-2.51	15.86	<=33.01	Pass
			0	18.29	-2.51	15.78	<=33.01	Pass
			0	19.19	-2.51	16.68	<=33.01	Pass
		25	25	19.24	-2.51	16.73	<=33.01	Pass
			49	19.33	-2.51	16.82	<=33.01	Pass
			0	18.36	-2.51	15.85	<=33.01	Pass
	2615	50	13	18.60	-2.51	16.09	<=33.01	Pass
			25	18.55	-2.51	16.04	<=33.01	Pass
			0	18.58	-2.51	16.07	<=33.01	Pass
256QAM	2575	1	0	16.48	-2.51	13.97	<=33.01	Pass
			25	16.37	-2.51	13.86	<=33.01	Pass
			49	16.23	-2.51	13.72	<=33.01	Pass
		25	0	16.55	-2.51	14.04	<=33.01	Pass
			13	16.51	-2.51	14.00	<=33.01	Pass
			25	16.48	-2.51	13.97	<=33.01	Pass
		50	0	16.54	-2.51	14.03	<=33.01	Pass
			0	16.15	-2.51	13.64	<=33.01	Pass
	2595	1	25	16.27	-2.51	13.76	<=33.01	Pass
			49	16.22	-2.51	13.71	<=33.01	Pass
			0	16.40	-2.51	13.89	<=33.01	Pass

			13	16.43	-2.51	13.92	<=33.01	Pass
			25	16.37	-2.51	13.86	<=33.01	Pass
		50	0	16.43	-2.51	13.92	<=33.01	Pass
	2615	1	0	16.38	-2.51	13.87	<=33.01	Pass
			25	16.35	-2.51	13.84	<=33.01	Pass
			49	16.54	-2.51	14.03	<=33.01	Pass
		25	0	16.59	-2.51	14.08	<=33.01	Pass
			13	16.49	-2.51	13.98	<=33.01	Pass
			25	16.65	-2.51	14.14	<=33.01	Pass
		50	0	16.65	-2.51	14.14	<=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	21.66	-2.51	19.15	<=33.01	Pass
			38	21.45	-2.51	18.94	<=33.01	Pass
			74	21.42	-2.51	18.91	<=33.01	Pass
		36	0	20.54	-2.51	18.03	<=33.01	Pass
			18	20.47	-2.51	17.96	<=33.01	Pass
			39	20.48	-2.51	17.97	<=33.01	Pass
		75	0	20.52	-2.51	18.01	<=33.01	Pass
	2595	1	0	21.41	-2.51	18.90	<=33.01	Pass
			38	21.43	-2.51	18.92	<=33.01	Pass
			74	21.39	-2.51	18.88	<=33.01	Pass
		36	0	20.43	-2.51	17.92	<=33.01	Pass
			18	20.40	-2.51	17.89	<=33.01	Pass
			39	20.35	-2.51	17.84	<=33.01	Pass
		75	0	20.41	-2.51	17.90	<=33.01	Pass
	2612.5	1	0	21.49	-2.51	18.98	<=33.01	Pass
			38	21.51	-2.51	19.00	<=33.01	Pass
			74	21.61	-2.51	19.10	<=33.01	Pass
		36	0	20.47	-2.51	17.96	<=33.01	Pass
			18	20.49	-2.51	17.98	<=33.01	Pass
			39	20.55	-2.51	18.04	<=33.01	Pass
		75	0	20.46	-2.51	17.95	<=33.01	Pass
16QAM	2577.5	1	0	20.75	-2.51	18.24	<=33.01	Pass
			38	20.29	-2.51	17.78	<=33.01	Pass
			74	20.30	-2.51	17.79	<=33.01	Pass
		36	0	19.51	-2.51	17.00	<=33.01	Pass
			18	19.39	-2.51	16.88	<=33.01	Pass
			39	19.40	-2.51	16.89	<=33.01	Pass
		75	0	19.52	-2.51	17.01	<=33.01	Pass
	2595	1	0	20.43	-2.51	17.92	<=33.01	Pass
			38	20.37	-2.51	17.86	<=33.01	Pass
			74	20.33	-2.51	17.82	<=33.01	Pass
		36	0	19.40	-2.51	16.89	<=33.01	Pass
			18	19.38	-2.51	16.87	<=33.01	Pass
			39	19.34	-2.51	16.83	<=33.01	Pass
		75	0	19.44	-2.51	16.93	<=33.01	Pass
	2612.5	1	0	20.45	-2.51	17.94	<=33.01	Pass
			38	20.61	-2.51	18.10	<=33.01	Pass
			74	20.74	-2.51	18.23	<=33.01	Pass
		36	0	19.43	-2.51	16.92	<=33.01	Pass
			18	19.44	-2.51	16.93	<=33.01	Pass

			39	19.53	-2.51	17.02	<=33.01	Pass	
		75	0	19.41	-2.51	16.90	<=33.01	Pass	
64QAM	2577.5	1	0	19.37	-2.51	16.86	<=33.01	Pass	
			38	19.15	-2.51	16.64	<=33.01	Pass	
			74	19.14	-2.51	16.63	<=33.01	Pass	
			0	18.48	-2.51	15.97	<=33.01	Pass	
		36	18	18.39	-2.51	15.88	<=33.01	Pass	
			39	18.40	-2.51	15.89	<=33.01	Pass	
			75	0	18.54	-2.51	16.03	<=33.01	Pass
		2595	1	0	19.13	-2.51	16.62	<=33.01	Pass
				38	19.12	-2.51	16.61	<=33.01	Pass
	74			19.07	-2.51	16.56	<=33.01	Pass	
	0			18.42	-2.51	15.91	<=33.01	Pass	
	36		18	18.38	-2.51	15.87	<=33.01	Pass	
			39	18.37	-2.51	15.86	<=33.01	Pass	
			75	0	18.45	-2.51	15.94	<=33.01	Pass
	2612.5		1	0	19.17	-2.51	16.66	<=33.01	Pass
				38	19.21	-2.51	16.70	<=33.01	Pass
		74		19.31	-2.51	16.80	<=33.01	Pass	
		0		18.45	-2.51	15.94	<=33.01	Pass	
		36	18	18.48	-2.51	15.97	<=33.01	Pass	
			39	18.55	-2.51	16.04	<=33.01	Pass	
			75	0	18.40	-2.51	15.89	<=33.01	Pass
		256QAM	2577.5	1	0	16.45	-2.51	13.94	<=33.01
38					16.27	-2.51	13.76	<=33.01	Pass
74	16.29				-2.51	13.78	<=33.01	Pass	
36	0			16.54	-2.51	14.03	<=33.01	Pass	
	18			16.46	-2.51	13.95	<=33.01	Pass	
	39			16.47	-2.51	13.96	<=33.01	Pass	
75	0			16.53	-2.51	14.02	<=33.01	Pass	
2595	1		0	16.21	-2.51	13.70	<=33.01	Pass	
			38	16.32	-2.51	13.81	<=33.01	Pass	
			74	16.25	-2.51	13.74	<=33.01	Pass	
	36		0	16.44	-2.51	13.93	<=33.01	Pass	
			18	16.43	-2.51	13.92	<=33.01	Pass	
			39	16.39	-2.51	13.88	<=33.01	Pass	
75	0		16.44	-2.51	13.93	<=33.01	Pass		
2612.5	1		0	16.30	-2.51	13.79	<=33.01	Pass	
			38	16.41	-2.51	13.90	<=33.01	Pass	
			74	16.38	-2.51	13.87	<=33.01	Pass	
	36		0	16.49	-2.51	13.98	<=33.01	Pass	
			18	16.54	-2.51	14.03	<=33.01	Pass	
		39	16.60	-2.51	14.09	<=33.01	Pass		
	75	0	16.60	-2.51	14.09	<=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	21.70	-2.51	19.19	<=33.01	Pass
			50	21.47	-2.51	18.96	<=33.01	Pass
			99	21.39	-2.51	18.88	<=33.01	Pass
		50	0	20.54	-2.51	18.03	<=33.01	Pass
			25	20.14	-2.51	17.63	<=33.01	Pass
			50	20.32	-2.51	17.81	<=33.01	Pass

		100	0	20.41	-2.51	17.90	<=33.01	Pass
	2595	1	0	21.47	-2.51	18.96	<=33.01	Pass
			50	21.43	-2.51	18.92	<=33.01	Pass
			99	21.37	-2.51	18.86	<=33.01	Pass
			0	20.46	-2.51	17.95	<=33.01	Pass
		50	25	20.41	-2.51	17.90	<=33.01	Pass
			50	20.44	-2.51	17.93	<=33.01	Pass
	100	0	20.43	-2.51	17.92	<=33.01	Pass	
	2610	1	0	21.36	-2.51	18.85	<=33.01	Pass
			50	21.45	-2.51	18.94	<=33.01	Pass
			99	21.65	-2.51	19.14	<=33.01	Pass
		50	0	20.51	-2.51	18.00	<=33.01	Pass
			25	20.50	-2.51	17.99	<=33.01	Pass
			50	20.41	-2.51	17.90	<=33.01	Pass
		100	0	20.46	-2.51	17.95	<=33.01	Pass
		16QAM	2580	1	0	20.78	-2.51	18.27
50	20.56				-2.51	18.05	<=33.01	Pass
99	20.49				-2.51	17.98	<=33.01	Pass
50	0			19.46	-2.51	16.95	<=33.01	Pass
	25			19.42	-2.51	16.91	<=33.01	Pass
	50			19.38	-2.51	16.87	<=33.01	Pass
100	0			19.54	-2.51	17.03	<=33.01	Pass
2595	1		0	20.57	-2.51	18.06	<=33.01	Pass
			50	20.54	-2.51	18.03	<=33.01	Pass
			99	20.52	-2.51	18.01	<=33.01	Pass
	50		0	19.46	-2.51	16.95	<=33.01	Pass
			25	19.41	-2.51	16.90	<=33.01	Pass
50	19.36		-2.51	16.85	<=33.01	Pass		
100	0		19.41	-2.51	16.90	<=33.01	Pass	
2610	1		0	20.51	-2.51	18.00	<=33.01	Pass
			50	20.53	-2.51	18.02	<=33.01	Pass
			99	20.76	-2.51	18.25	<=33.01	Pass
	50		0	19.51	-2.51	17.00	<=33.01	Pass
			25	19.56	-2.51	17.05	<=33.01	Pass
			50	19.63	-2.51	17.12	<=33.01	Pass
	100		0	19.48	-2.51	16.97	<=33.01	Pass
64QAM	2580	1	0	19.36	-2.51	16.85	<=33.01	Pass
			50	19.18	-2.51	16.67	<=33.01	Pass
			99	19.07	-2.51	16.56	<=33.01	Pass
		50	0	18.43	-2.51	15.92	<=33.01	Pass
			25	18.35	-2.51	15.84	<=33.01	Pass
			50	18.48	-2.51	15.97	<=33.01	Pass
		100	0	18.40	-2.51	15.89	<=33.01	Pass
	2595	1	0	19.12	-2.51	16.61	<=33.01	Pass
			50	19.12	-2.51	16.61	<=33.01	Pass
			99	19.11	-2.51	16.60	<=33.01	Pass
		50	0	18.45	-2.51	15.94	<=33.01	Pass
			25	18.34	-2.51	15.83	<=33.01	Pass
	50		18.38	-2.51	15.87	<=33.01	Pass	
	100	0	18.39	-2.51	15.88	<=33.01	Pass	
	2610	1	0	19.13	-2.51	16.62	<=33.01	Pass
			50	19.11	-2.51	16.60	<=33.01	Pass
			99	19.33	-2.51	16.82	<=33.01	Pass
		50	0	18.51	-2.51	16.00	<=33.01	Pass
			25	18.55	-2.51	16.04	<=33.01	Pass
			50	18.60	-2.51	16.09	<=33.01	Pass
		100	0	18.52	-2.51	16.01	<=33.01	Pass
256QAM	2580	1	0	16.55	-2.51	14.04	<=33.01	Pass
			50	16.28	-2.51	13.77	<=33.01	Pass

		50	99	16.27	-2.51	13.76	<=33.01	Pass
			0	16.57	-2.51	14.06	<=33.01	Pass
			25	16.55	-2.51	14.04	<=33.01	Pass
			50	16.45	-2.51	13.94	<=33.01	Pass
		100	0	16.50	-2.51	13.99	<=33.01	Pass
	2595	1	0	16.34	-2.51	13.83	<=33.01	Pass
			50	16.30	-2.51	13.79	<=33.01	Pass
			99	16.33	-2.51	13.82	<=33.01	Pass
		50	0	16.48	-2.51	13.97	<=33.01	Pass
			25	16.48	-2.51	13.97	<=33.01	Pass
			50	16.48	-2.51	13.97	<=33.01	Pass
		100	0	16.43	-2.51	13.92	<=33.01	Pass
	2610	1	0	16.30	-2.51	13.79	<=33.01	Pass
			50	16.34	-2.51	13.83	<=33.01	Pass
			99	16.54	-2.51	14.03	<=33.01	Pass
		50	0	16.56	-2.51	14.05	<=33.01	Pass
			25	16.61	-2.51	14.10	<=33.01	Pass
			50	16.66	-2.51	14.15	<=33.01	Pass
		100	0	16.56	-2.51	14.05	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2595	50	0	20	3.4	2.500	0.0010	-2.5 to 2.5	Pass
					3.8	-4.500	-0.0017	-2.5 to 2.5	Pass
					4.45	2.500	0.0010	-2.5 to 2.5	Pass
				-30	3.8	1.900	0.0007	-2.5 to 2.5	Pass
				-20	3.8	8.500	0.0033	-2.5 to 2.5	Pass
				-10	3.8	3.000	0.0012	-2.5 to 2.5	Pass
				0	3.8	-5.900	-0.0023	-2.5 to 2.5	Pass
				10	3.8	-0.700	-0.0003	-2.5 to 2.5	Pass
				30	3.8	7.200	0.0028	-2.5 to 2.5	Pass
				40	3.8	4.700	0.0018	-2.5 to 2.5	Pass
				50	3.8	-4.800	-0.0018	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

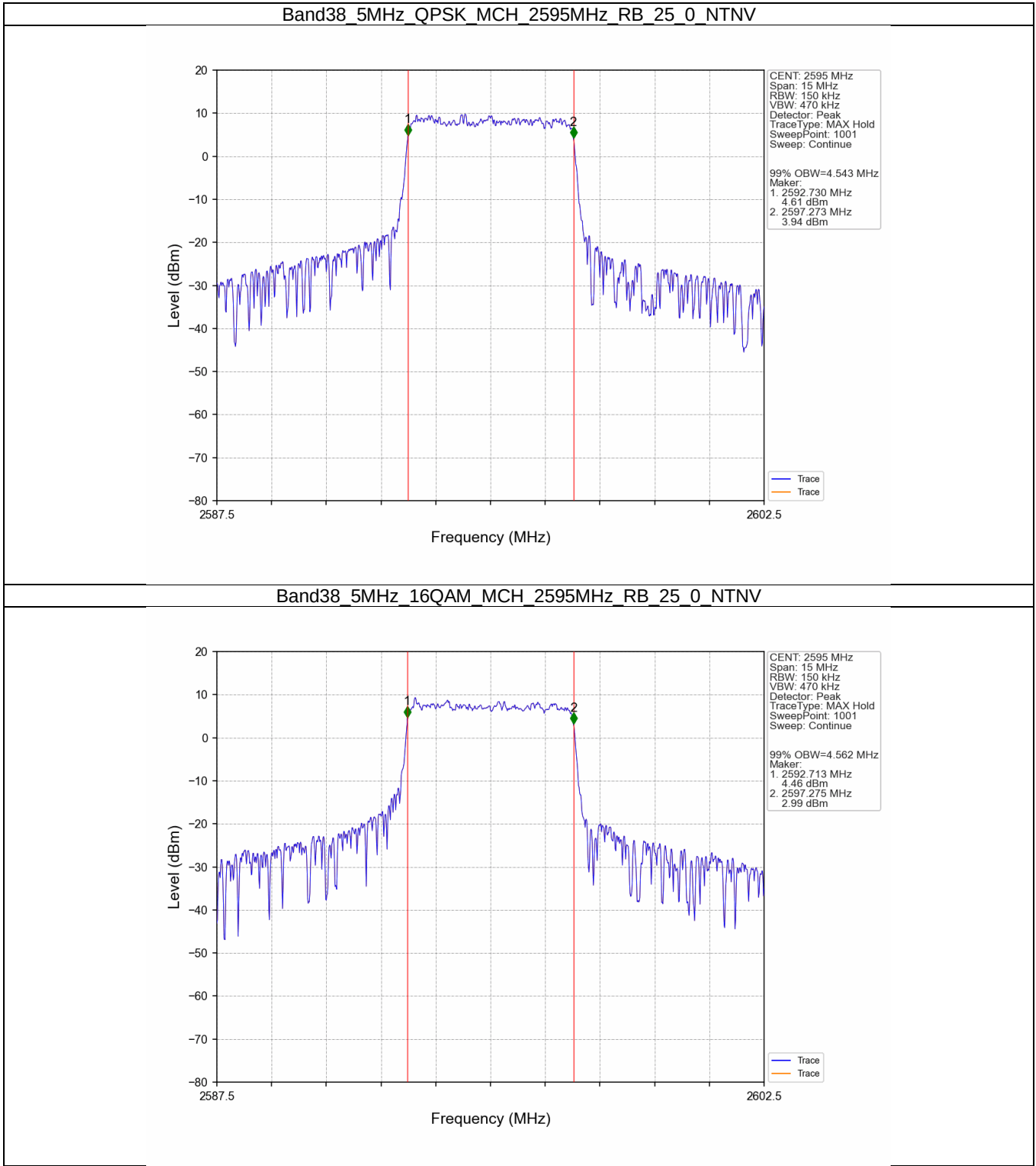
Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	4.543	/	Pass
	16QAM	2595	25	0	4.562	/	Pass
10	QPSK	2595	50	0	9.088	/	Pass
	16QAM	2595	50	0	9.071	/	Pass
15	QPSK	2595	75	0	13.670	/	Pass
	16QAM	2595	75	0	13.598	/	Pass
20	QPSK	2595	100	0	18.095	/	Pass
	16QAM	2595	100	0	18.110	/	Pass

3.1.2 Band38_XDB

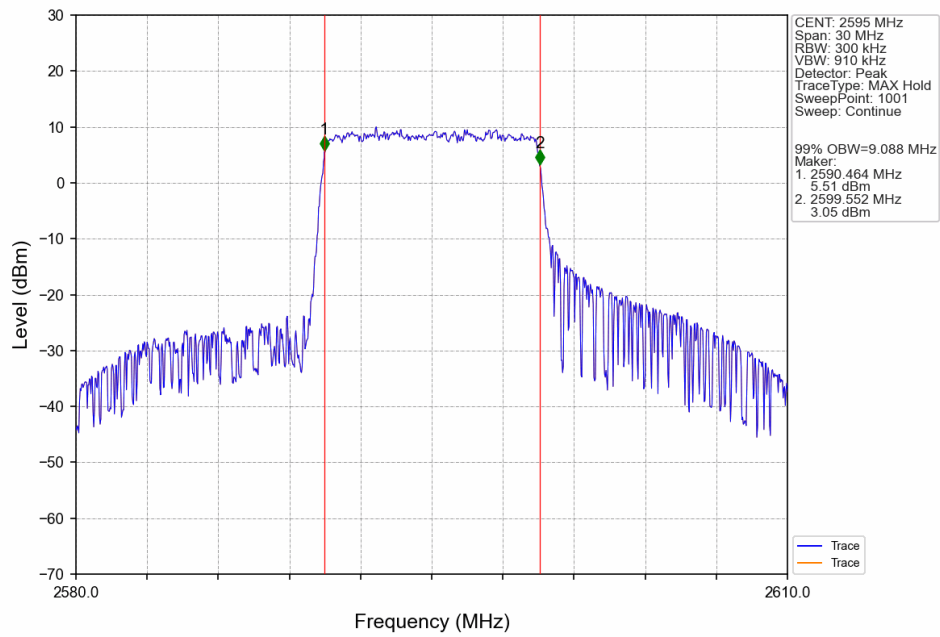
Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	5.079	/	Pass
	16QAM	2595	25	0	5.305	/	Pass
10	QPSK	2595	50	0	10.912	/	Pass
	16QAM	2595	50	0	11.240	/	Pass
15	QPSK	2595	75	0	19.864	/	Pass
	16QAM	2595	75	0	15.567	/	Pass
20	QPSK	2595	100	0	22.703	/	Pass
	16QAM	2595	100	0	24.454	/	Pass

3.2 Test Graph

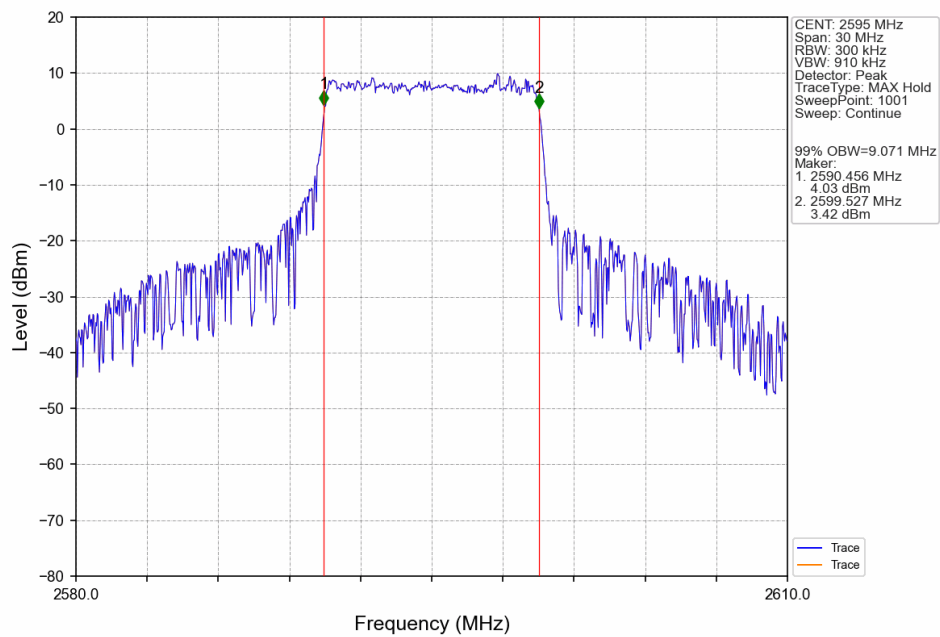
3.2.1 Band38_OBW



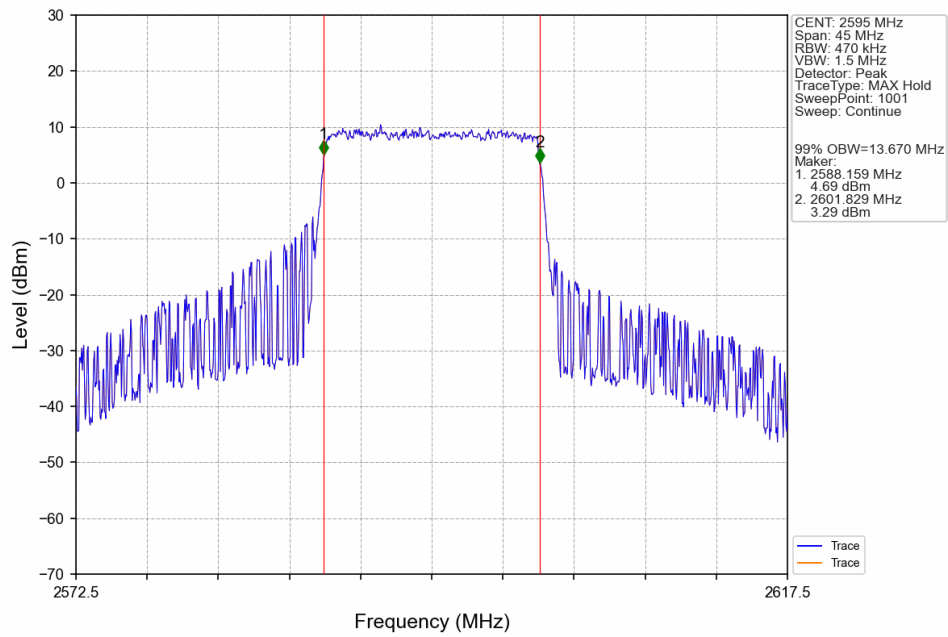
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



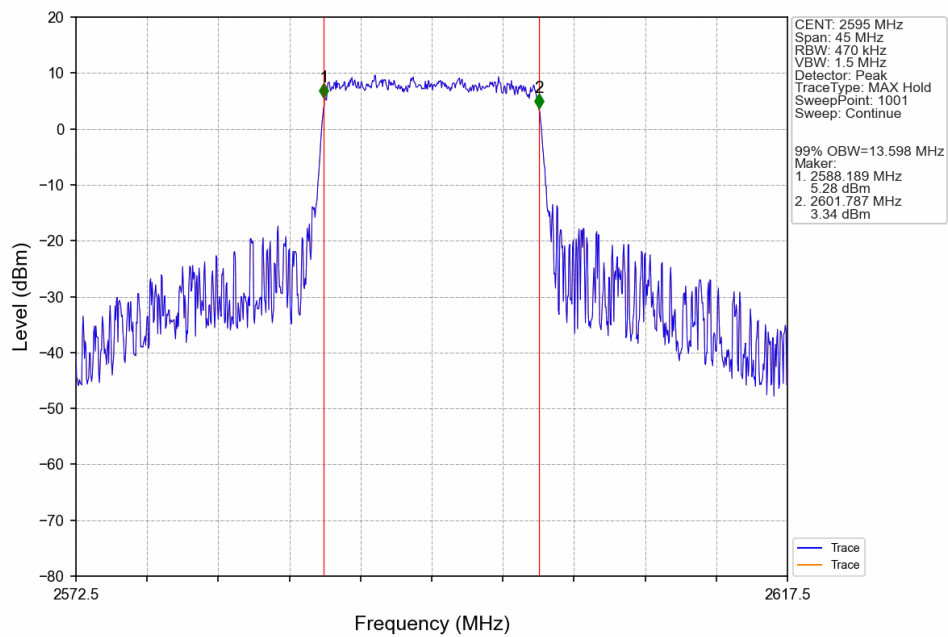
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



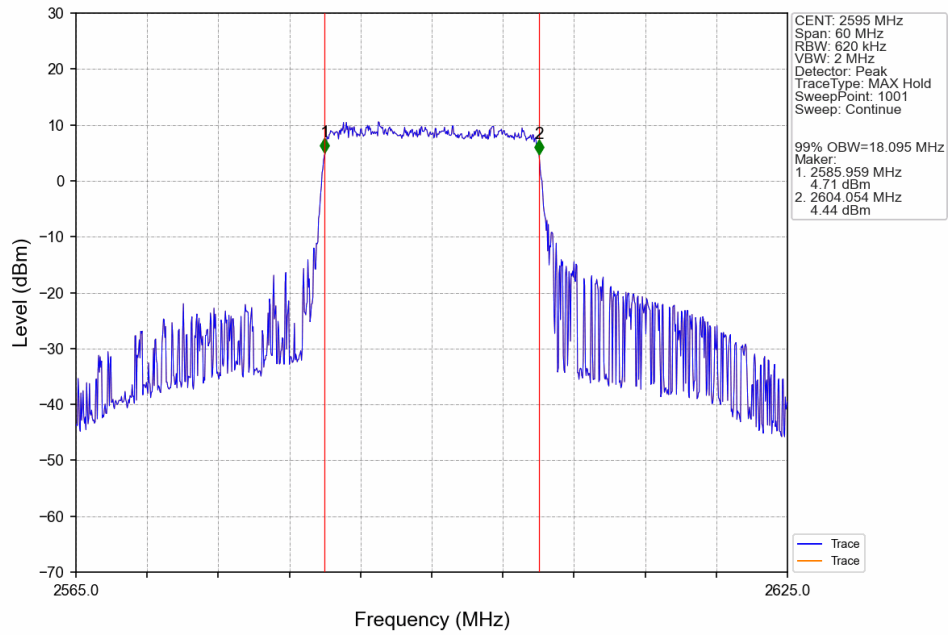
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



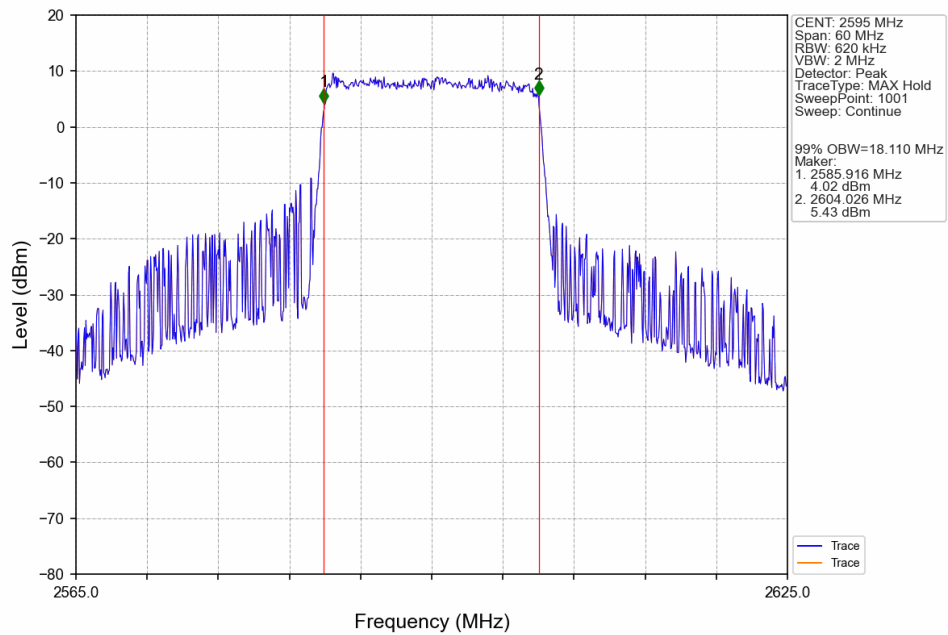
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



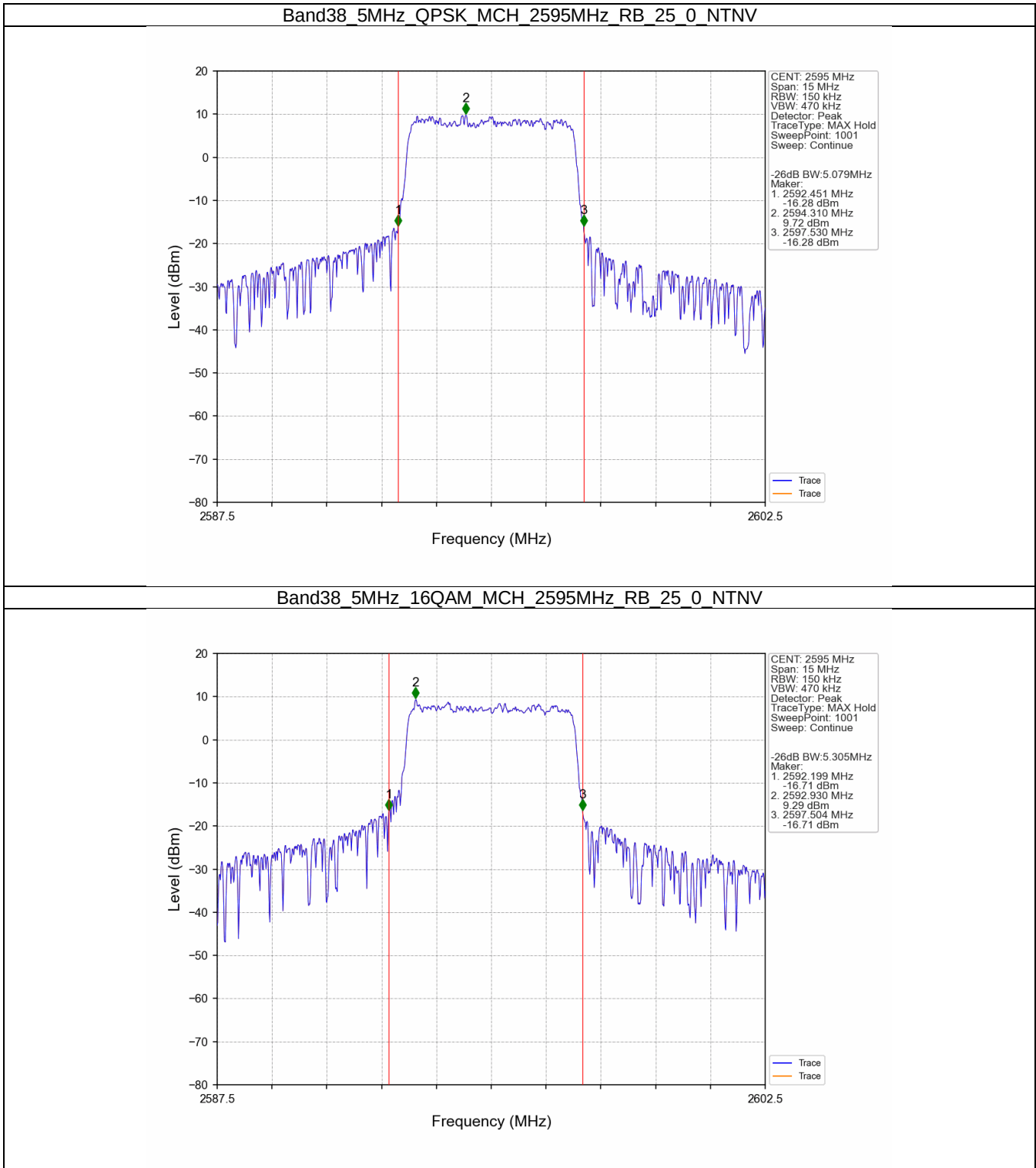
Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTNV



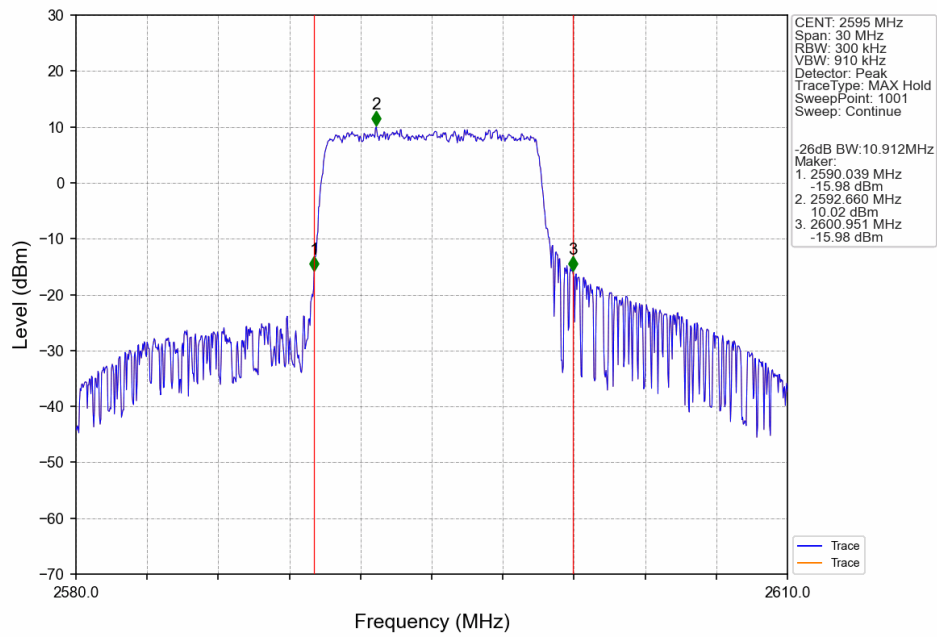
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



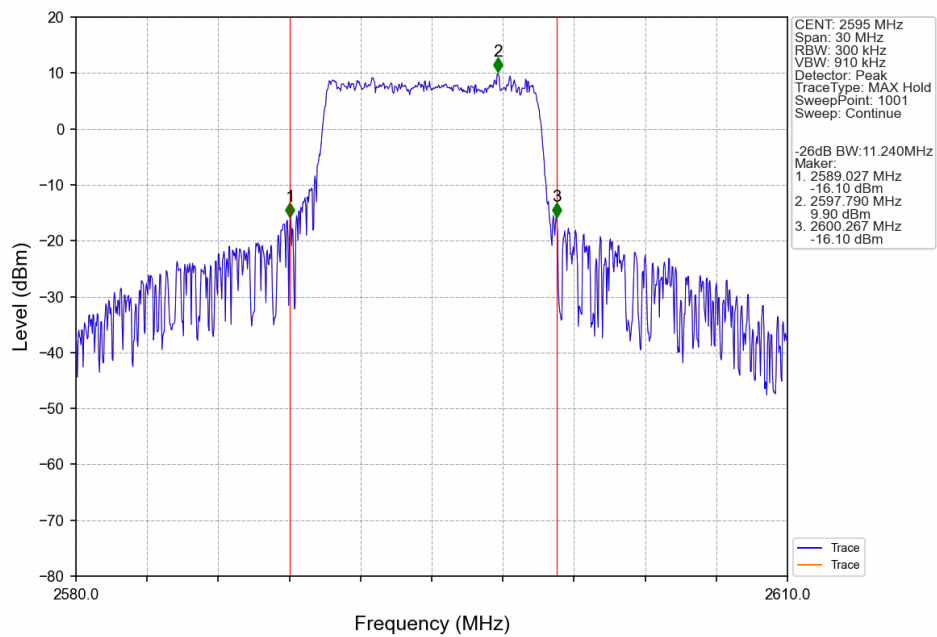
3.2.2 Band38_XDB



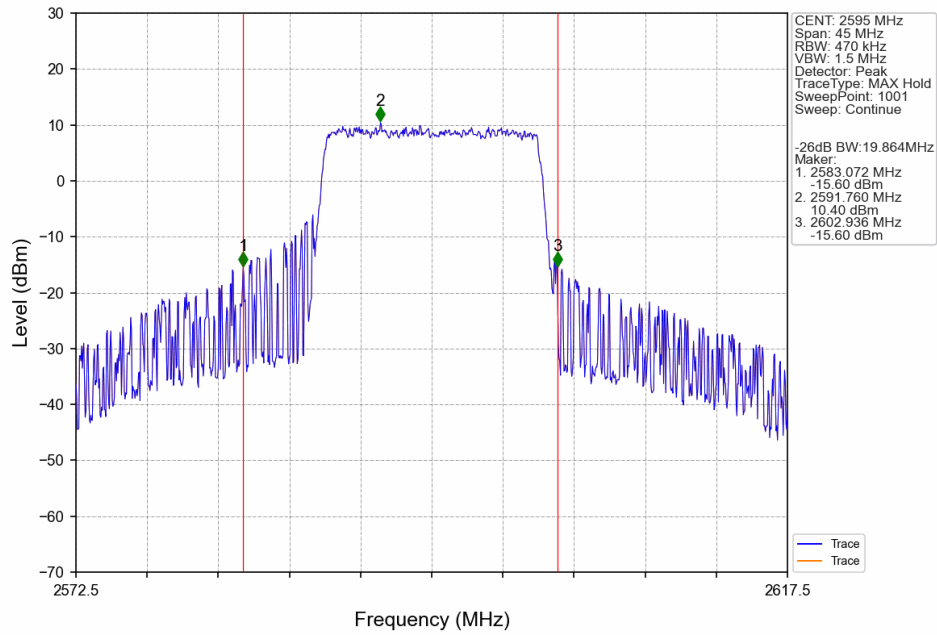
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



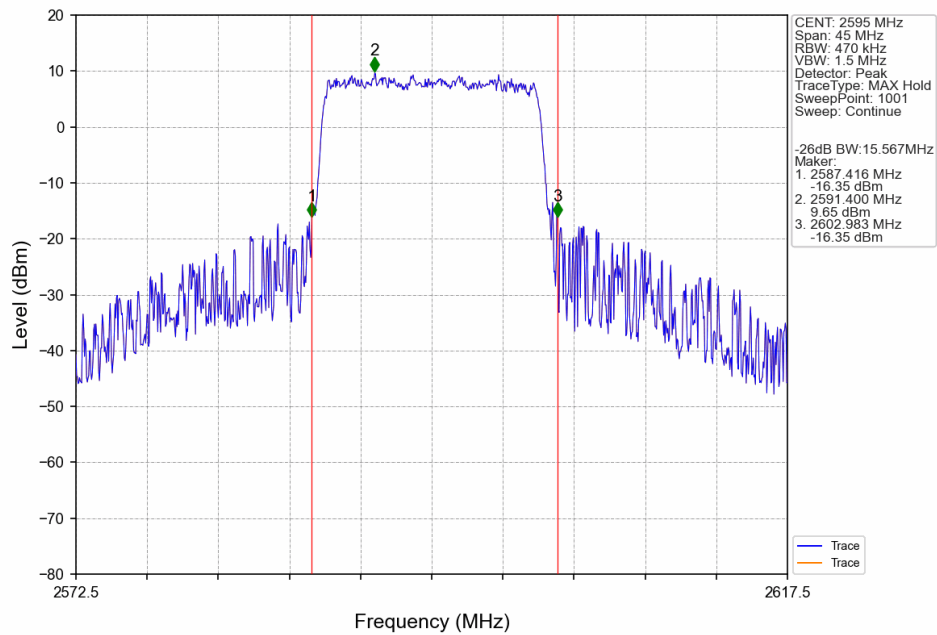
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



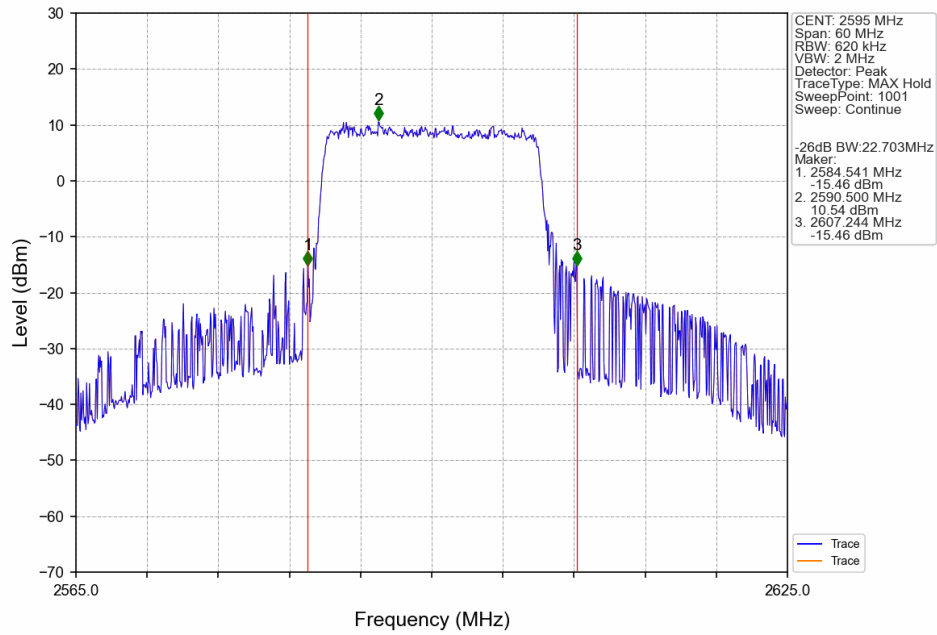
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



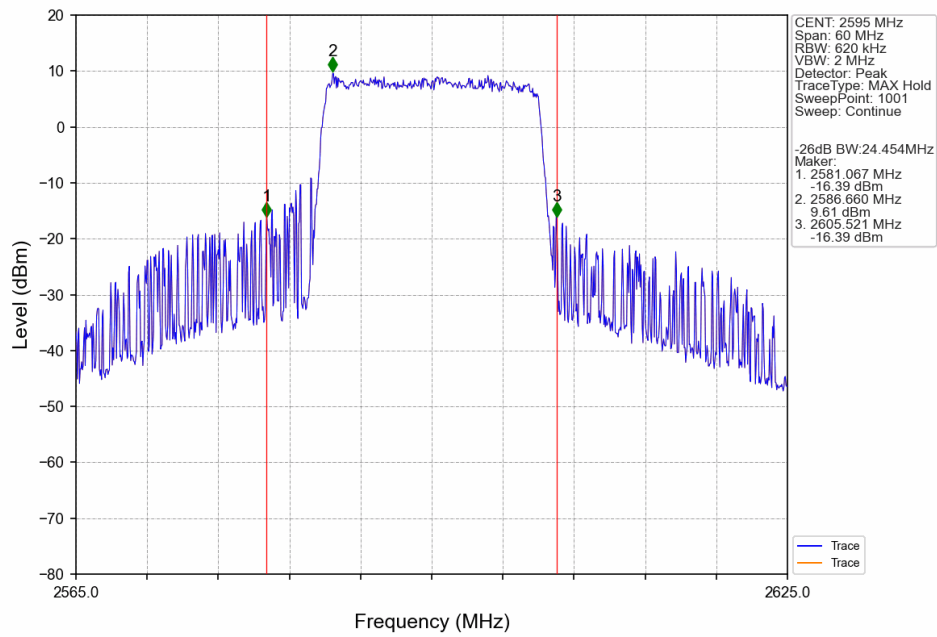
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38 20MHz QPSK MCH 2595MHz RB 100 0 NTN



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0 NTN



4. Peak-Average Ratio

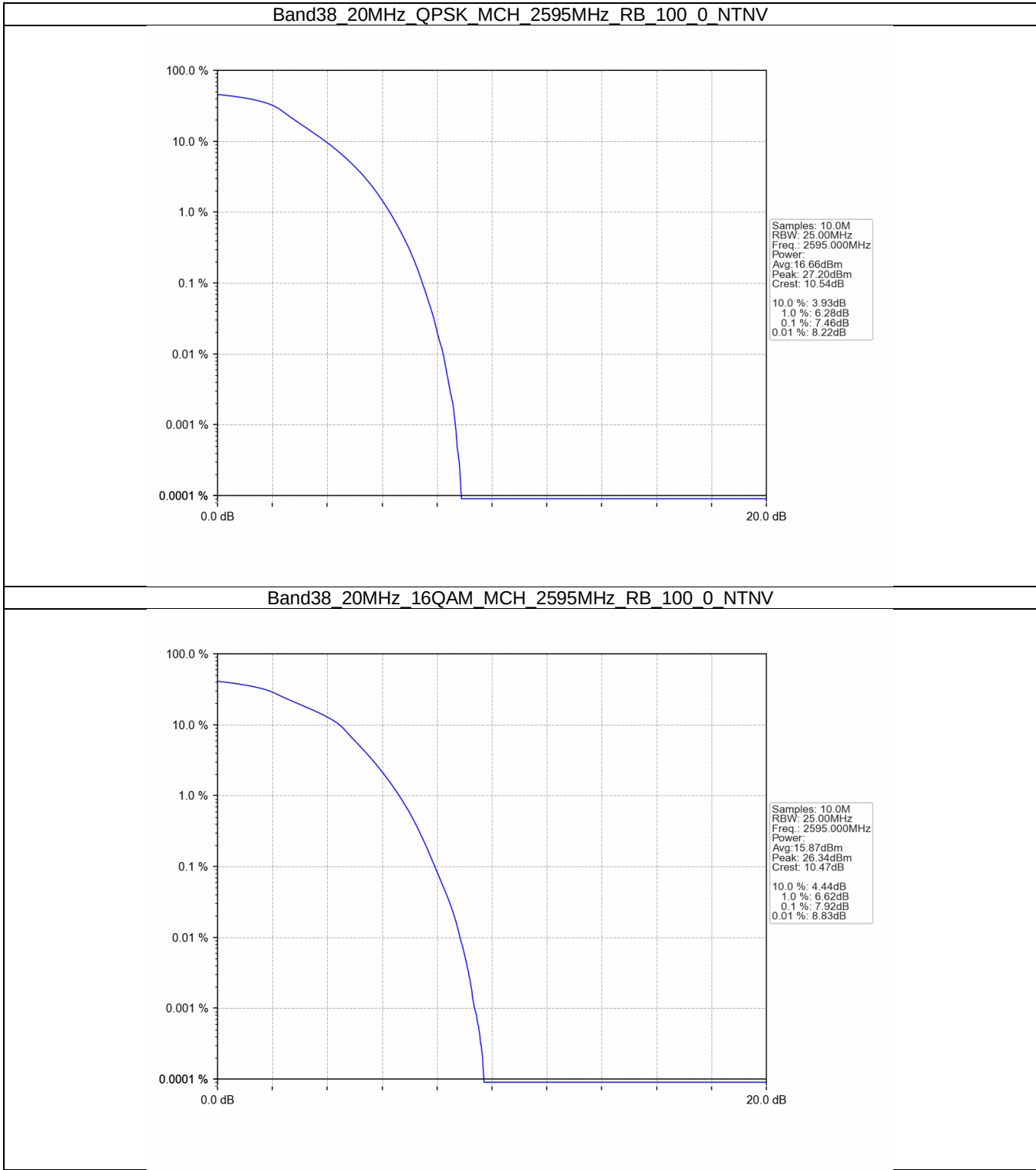
4.1 Test Result

4.1.1 B38_20MHz

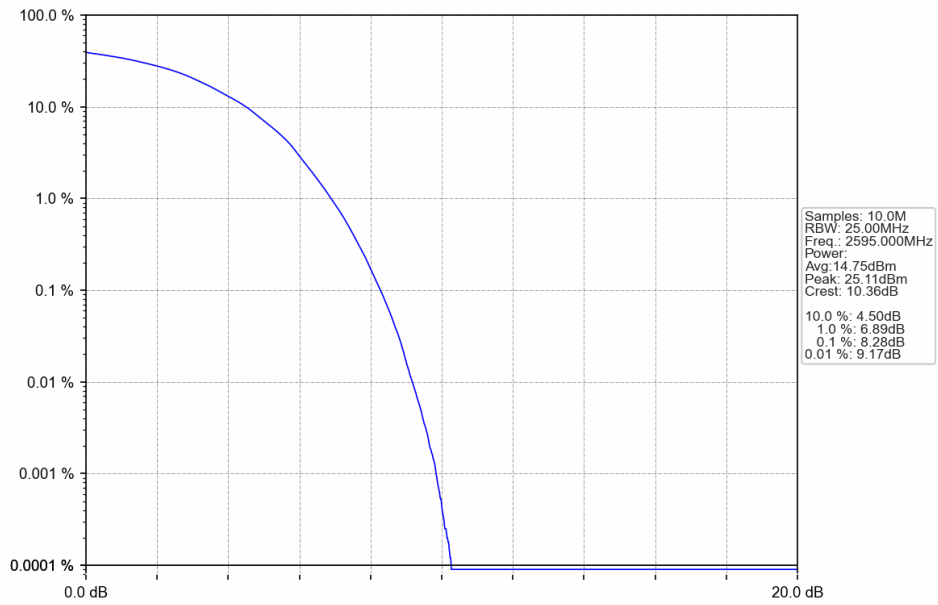
Band: 38 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	7.46	<=13	Pass
16QAM	2595	100	0	7.92	<=13	Pass
64QAM	2595	100	0	8.28	<=13	Pass
256QAM	2595	100	0	8.20	<=13	Pass

4.2 Test Graph

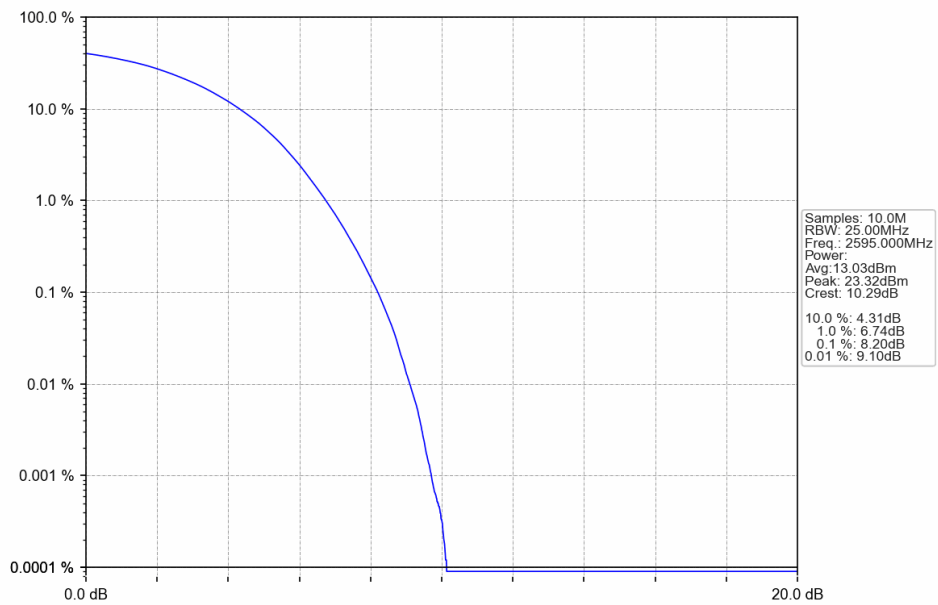
4.2.1 B38_20MHz



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 / NTV						
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 / NTVN						
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

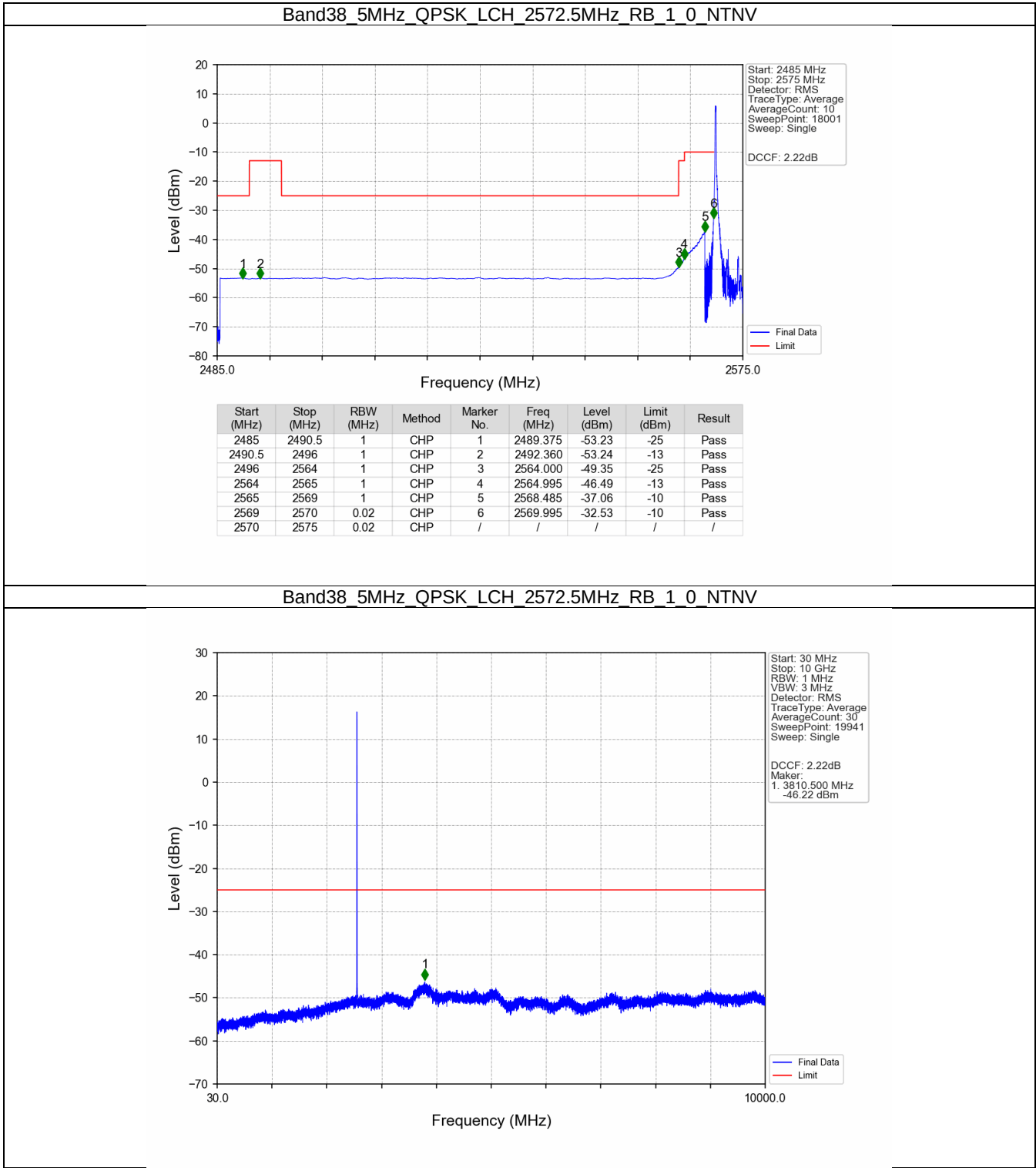
Band: 38 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To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

5.1.4 B38_20MHz

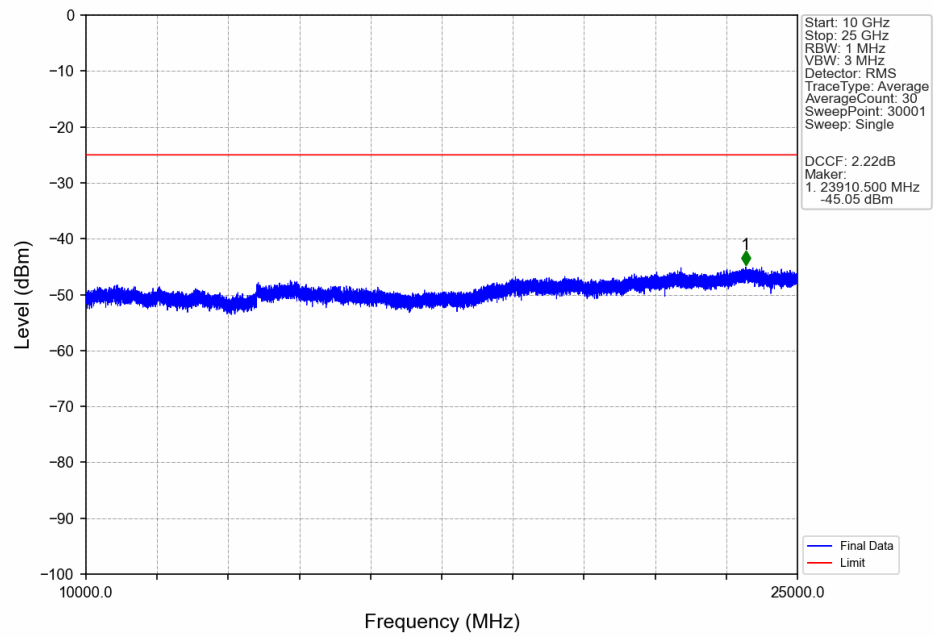
Band: 38 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

5.2 Test Graph

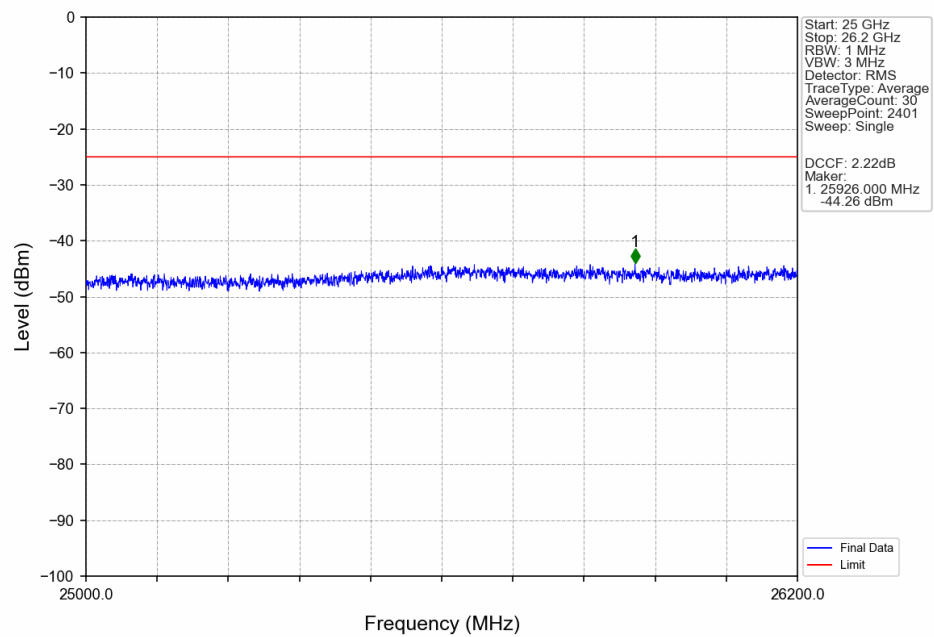
5.2.1 B38_5MHz



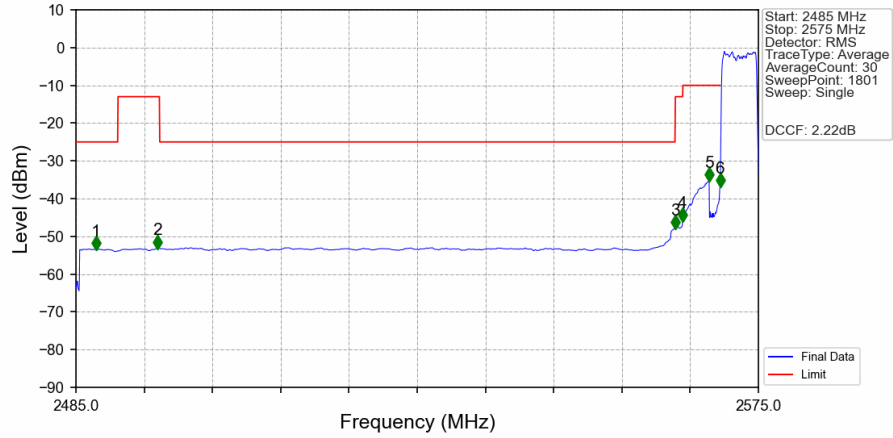
Band38 5MHz QPSK LCH 2572.5MHz RB 1 0 NTV



Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTV

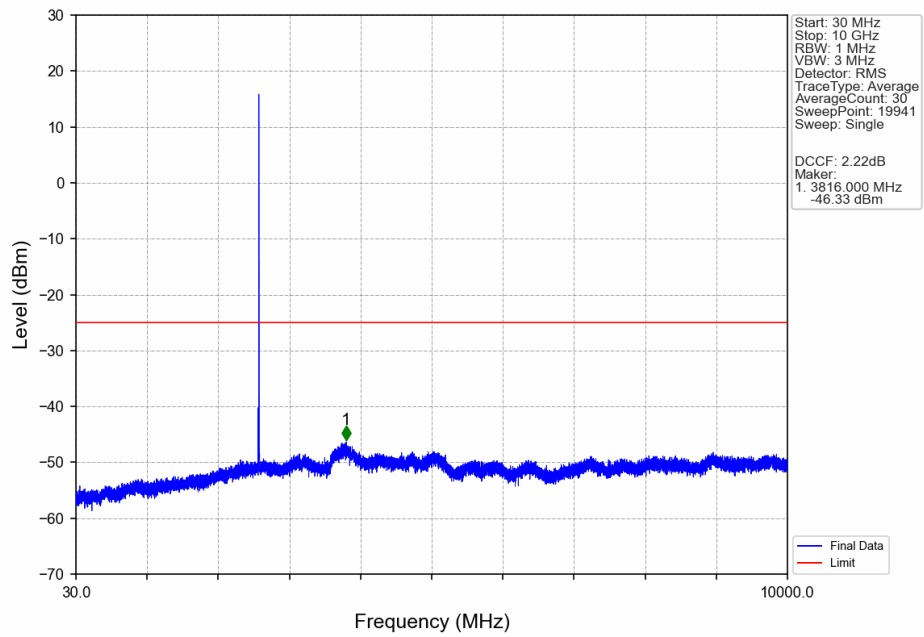


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

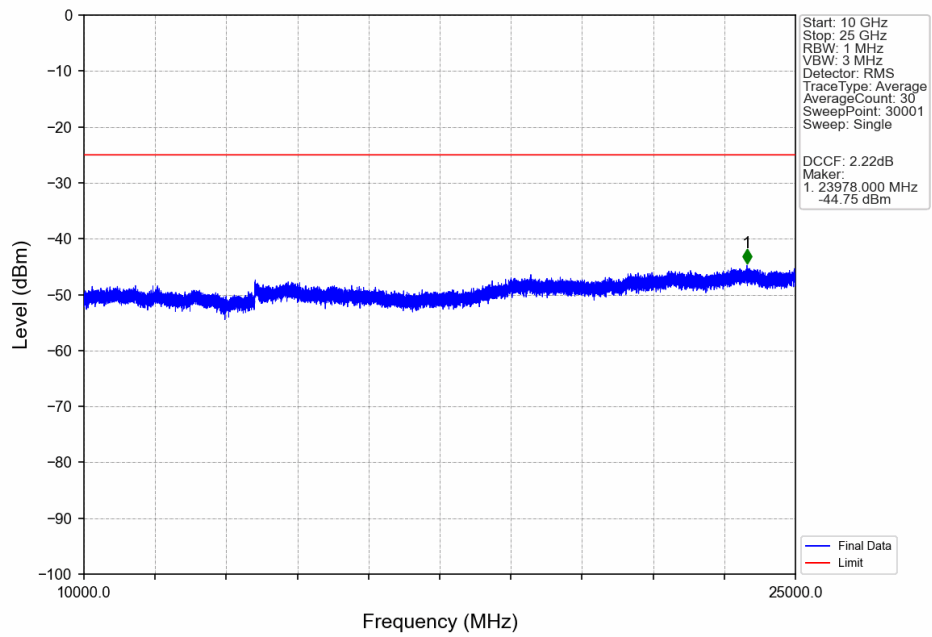


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.650	-53.32	-25	Pass
2490.5	2496	1	CHP	2	2495.750	-53.03	-13	Pass
2496	2564	1	CHP	3	2564.000	-47.80	-25	Pass
2564	2565	1	CHP	4	2565.000	-45.94	-13	Pass
2565	2569	1	CHP	5	2568.500	-35.25	-10	Pass
2569	2570	0.108	CHP	6	2569.950	-36.75	-10	Pass
2570	2575	0.108	CHP	/	/	/	/	/

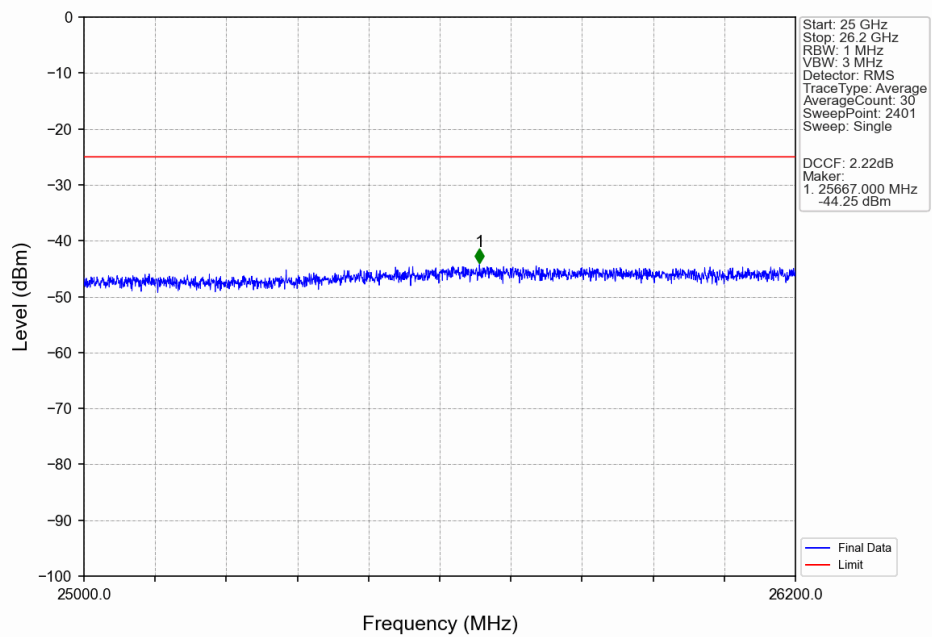
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



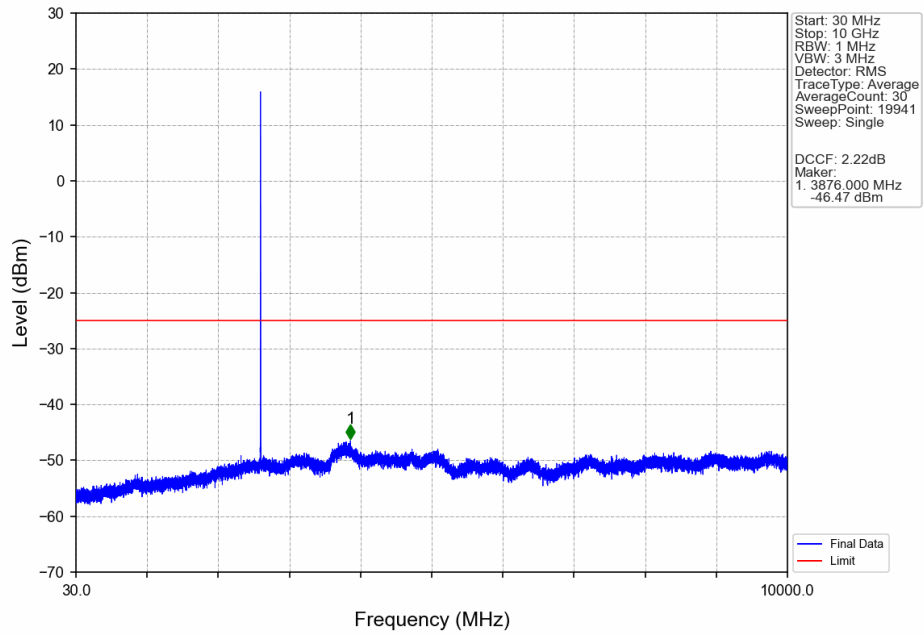
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



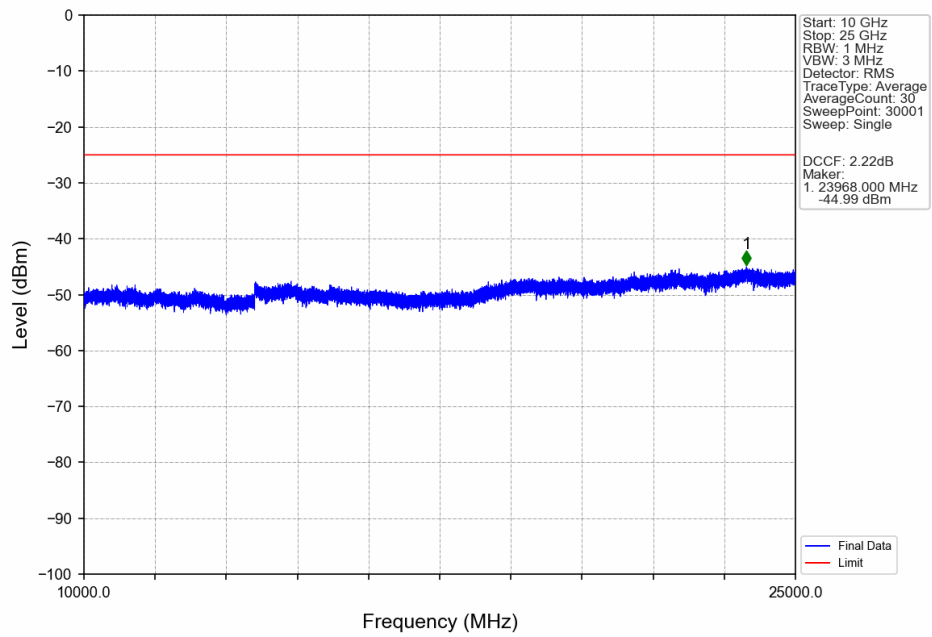
Band38 5MHz QPSK MCH 2595MHz RB 1 0 NTN



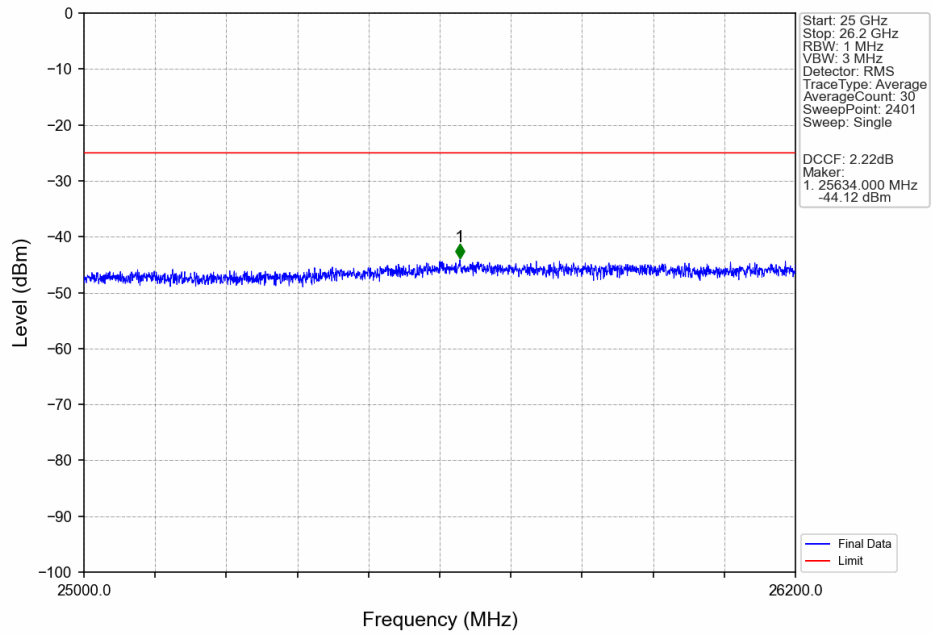
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



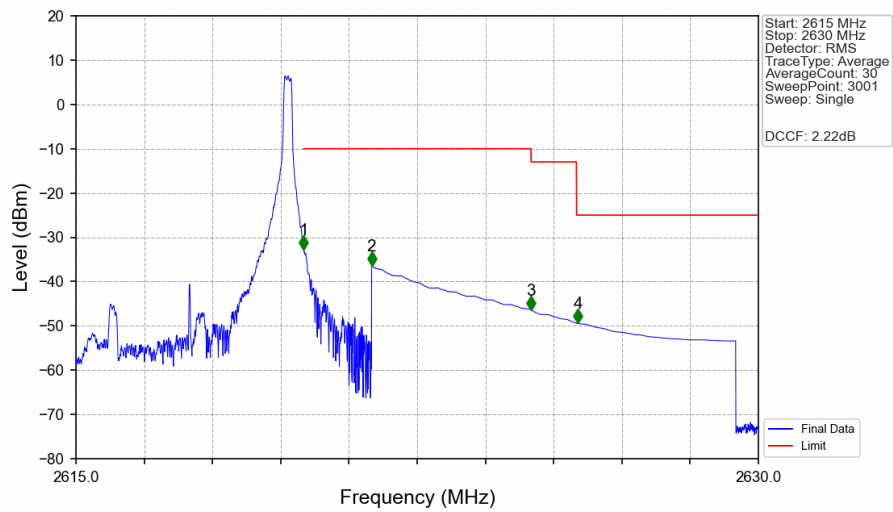
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



Band38 5MHz QPSK HCH 2617.5MHz RB 1 0 NTNV

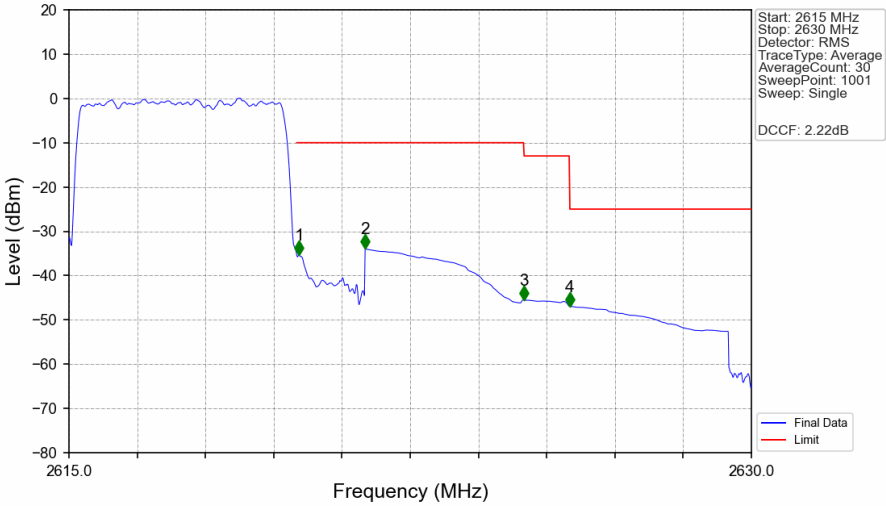


Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



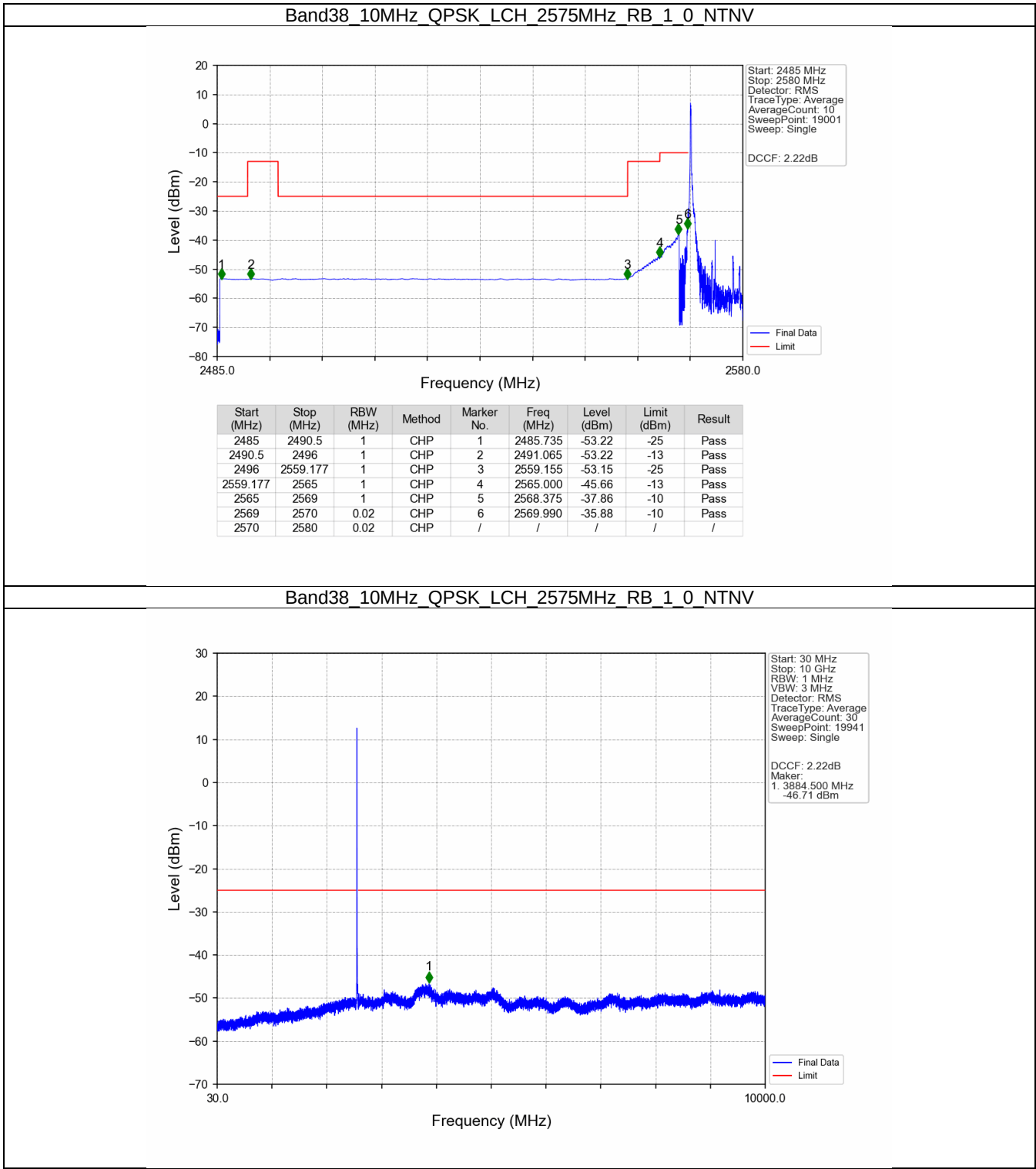
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-32.72	-10	Pass
2621	2625	1	CHP	2	2621.500	-36.48	-10	Pass
2625	2626	1	CHP	3	2625.005	-46.37	-13	Pass
2626	2630	1	CHP	4	2626.030	-49.43	-25	Pass

Band38 5MHz QPSK HCH 2617.5MHz RB 25 0 NTN

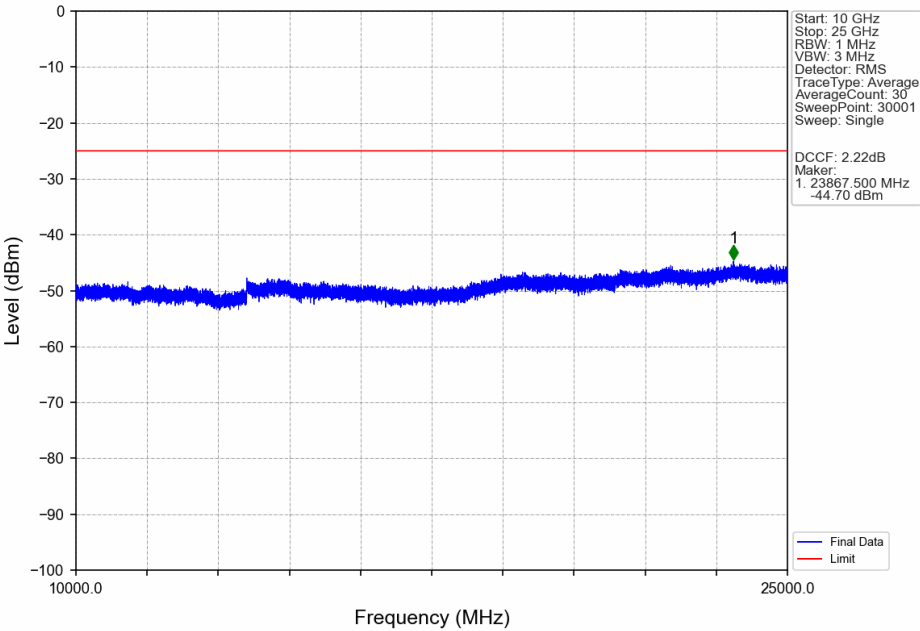


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.108	CHP	/	/	/	/	/
2620	2621	0.108	CHP	1	2620.055	-35.34	-10	Pass
2621	2625	1	CHP	2	2621.510	-33.91	-10	Pass
2625	2626	1	CHP	3	2625.005	-45.52	-13	Pass
2626	2630	1	CHP	4	2626.010	-46.97	-25	Pass

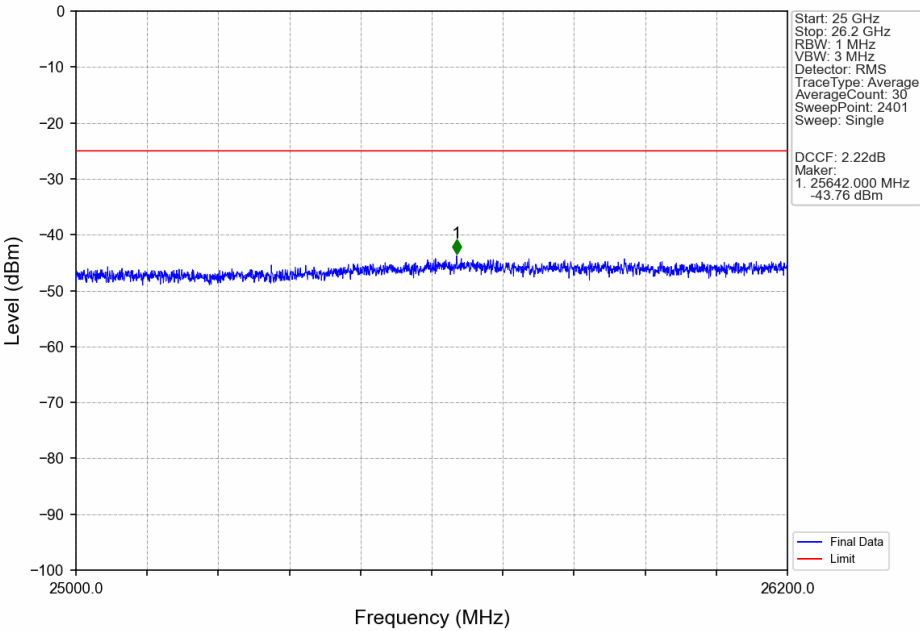
5.2.2 B38_10MHz



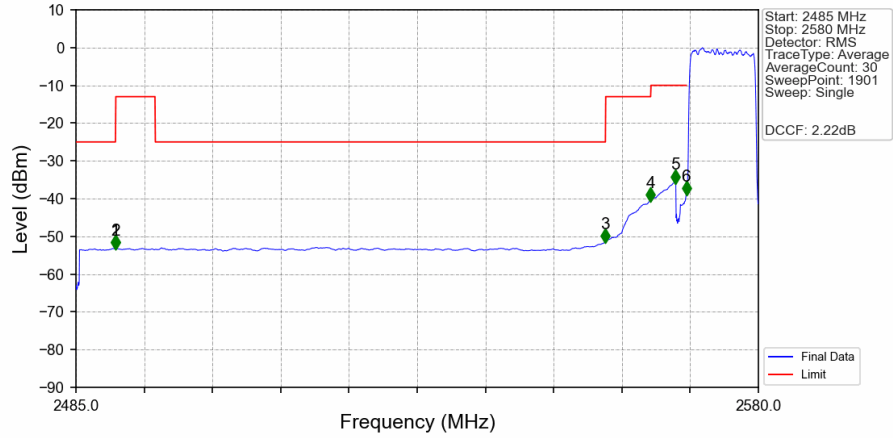
Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTNV



Band38 10MHz QPSK LCH 2575MHz RB 1 0 NTNV

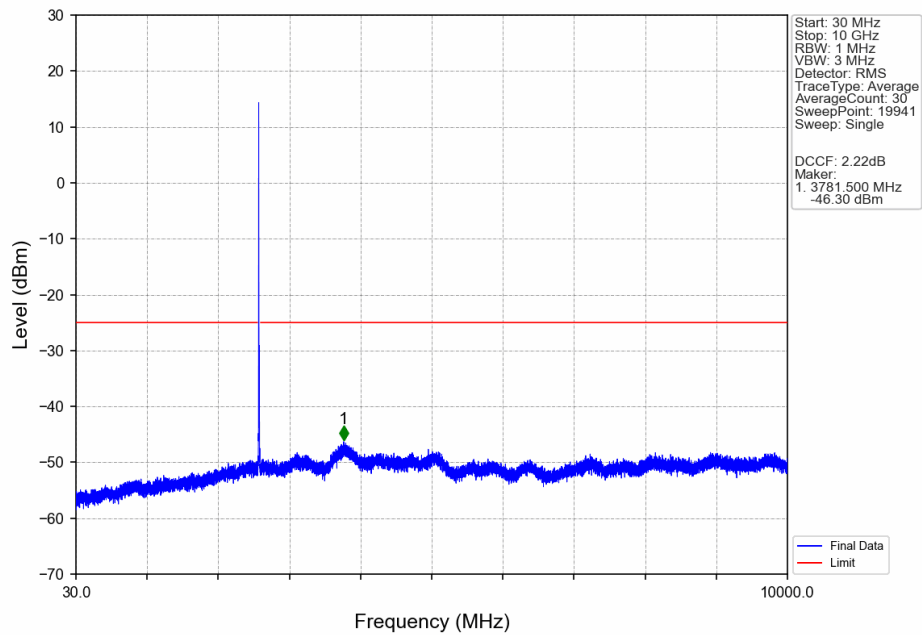


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

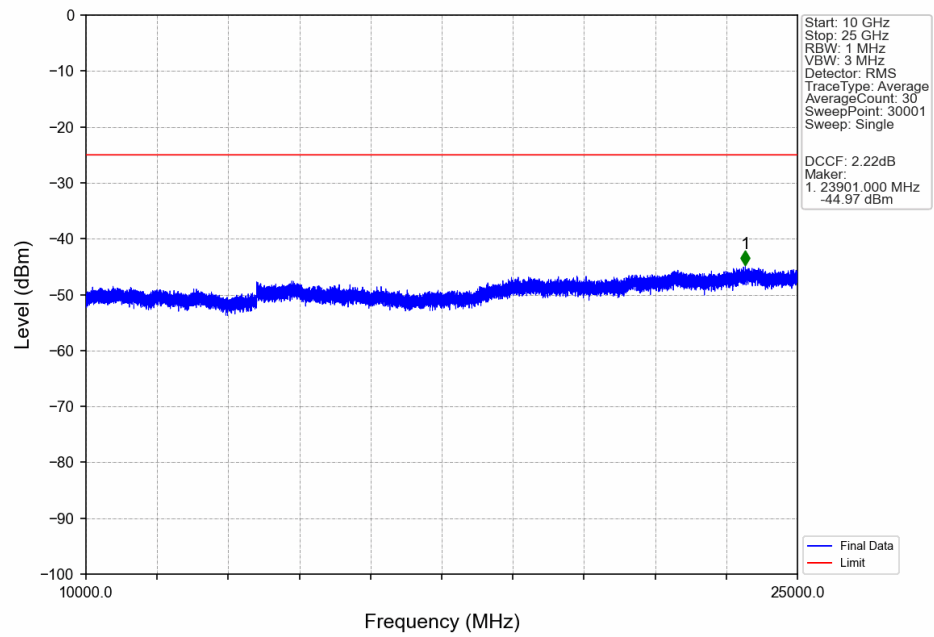


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.500	-53.16	-25	Pass
2490.5	2496	1	CHP	2	2490.550	-53.14	-13	Pass
2496	2558.708	1	CHP	3	2558.700	-51.46	-25	Pass
2558.708	2565	1	CHP	4	2565.000	-40.54	-13	Pass
2565	2569	1	CHP	5	2568.400	-35.75	-10	Pass
2569	2570	0.226	CHP	6	2569.950	-38.88	-10	Pass
2570	2580	0.226	CHP	/	/	/	/	/

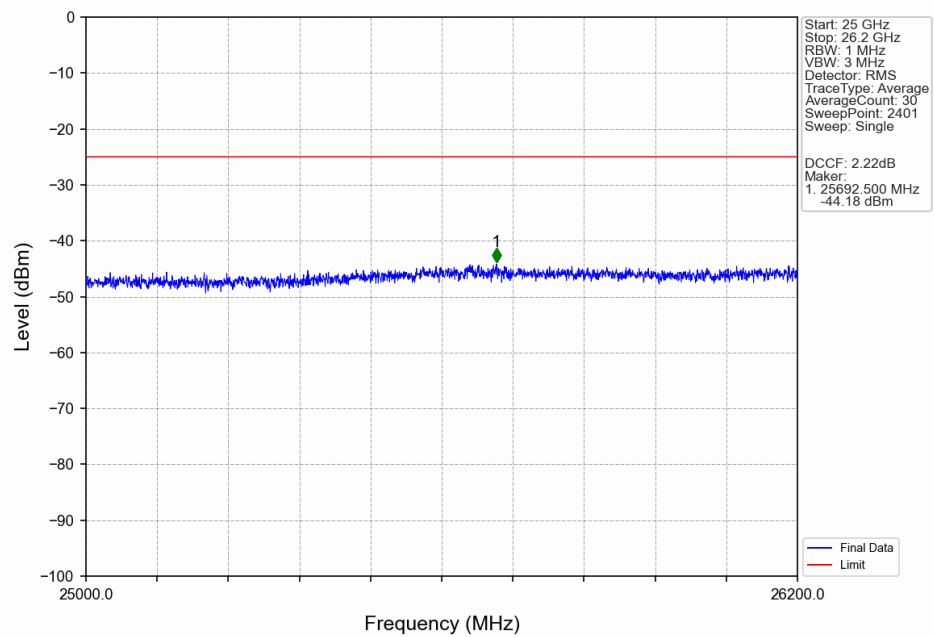
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



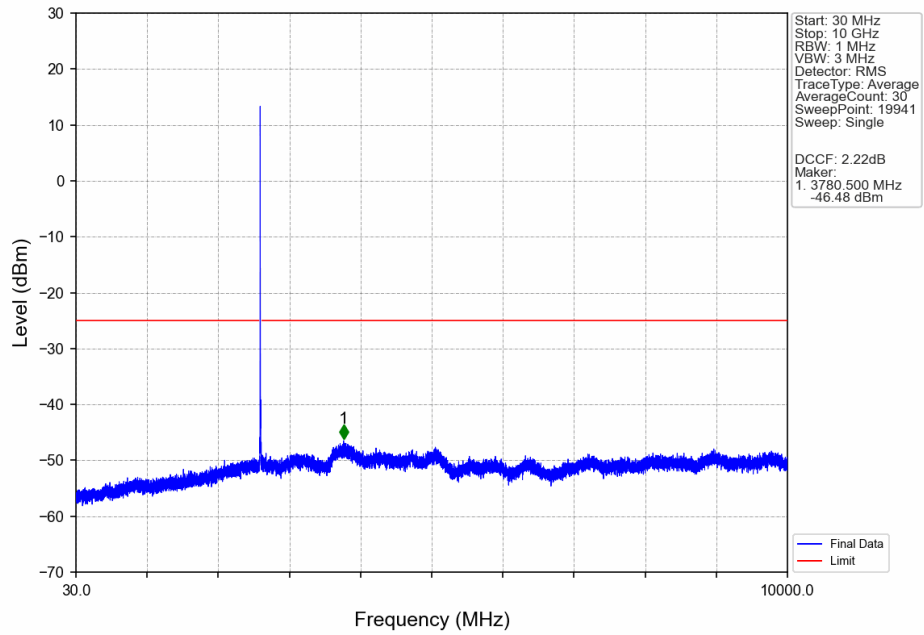
Band38 10MHz QPSK MCH 2595MHz RB 1 0 NTV



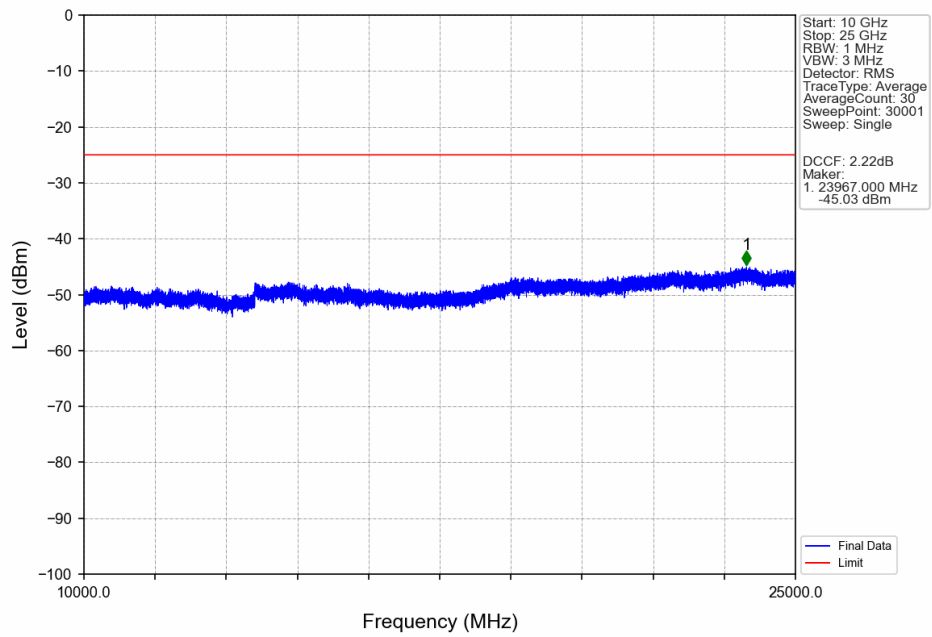
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTV



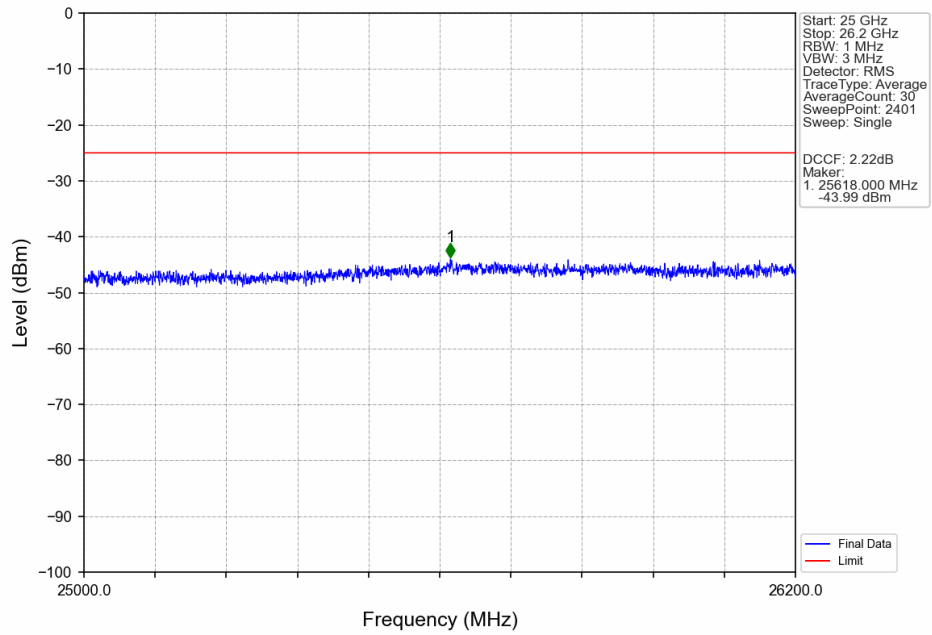
Band38 10MHz QPSK HCH 2615MHz RB 1 0 NTNV



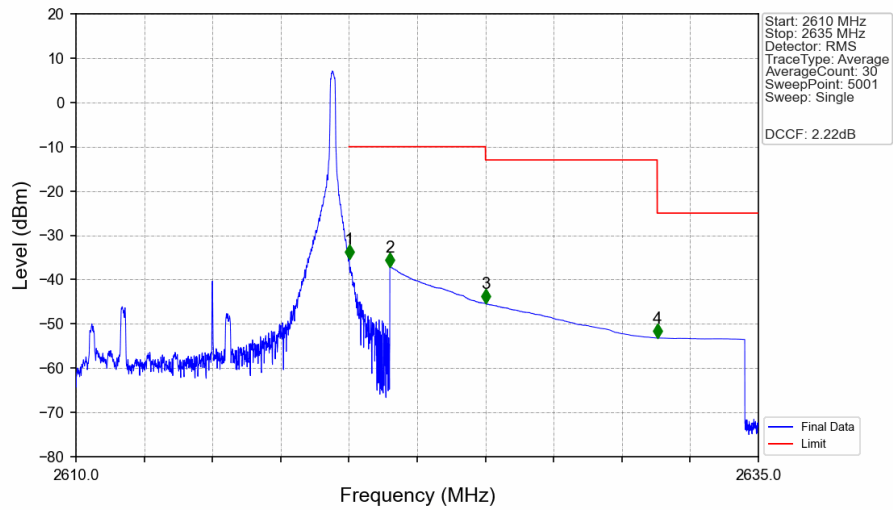
Band38 10MHz QPSK HCH 2615MHz RB 1 0 NTNV



Band38 10MHz QPSK HCH 2615MHz RB 1 0 NTNV

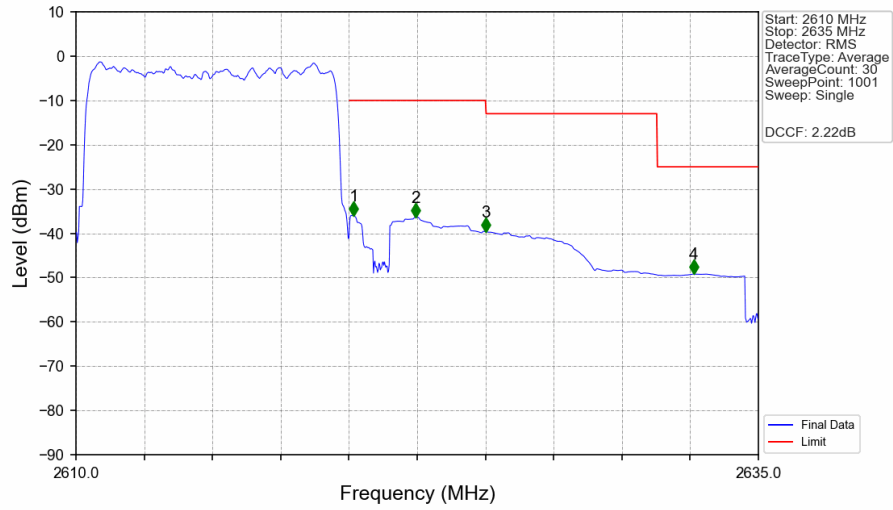


Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV



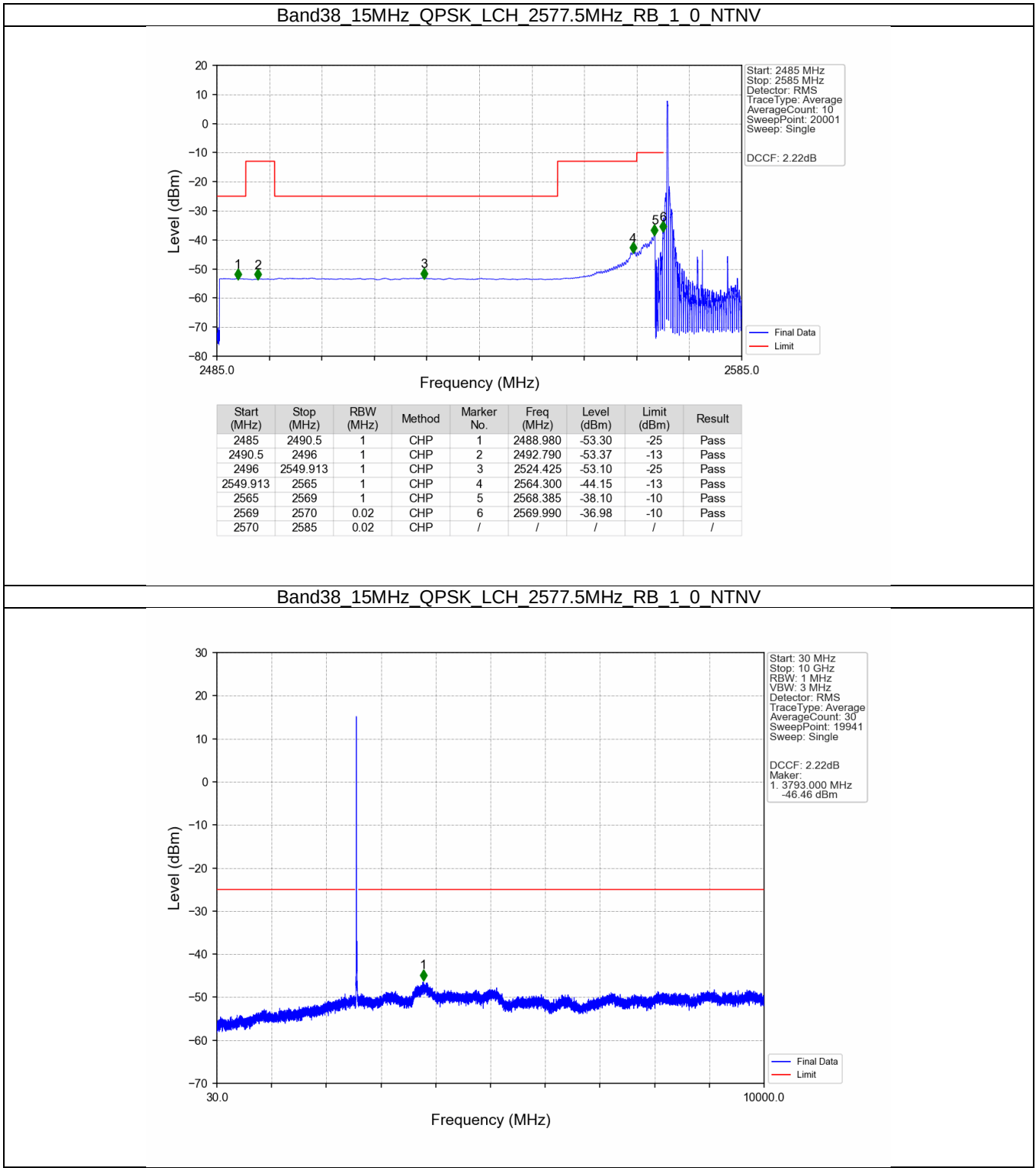
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-35.28	-10	Pass
2621	2625	1	CHP	2	2621.500	-37.10	-10	Pass
2625	2631.292	1	CHP	3	2625.005	-45.35	-13	Pass
2631.292	2635	1	CHP	4	2631.300	-53.18	-25	Pass

Band38 10MHz QPSK HCH 2615MHz RB 50 0 NTV

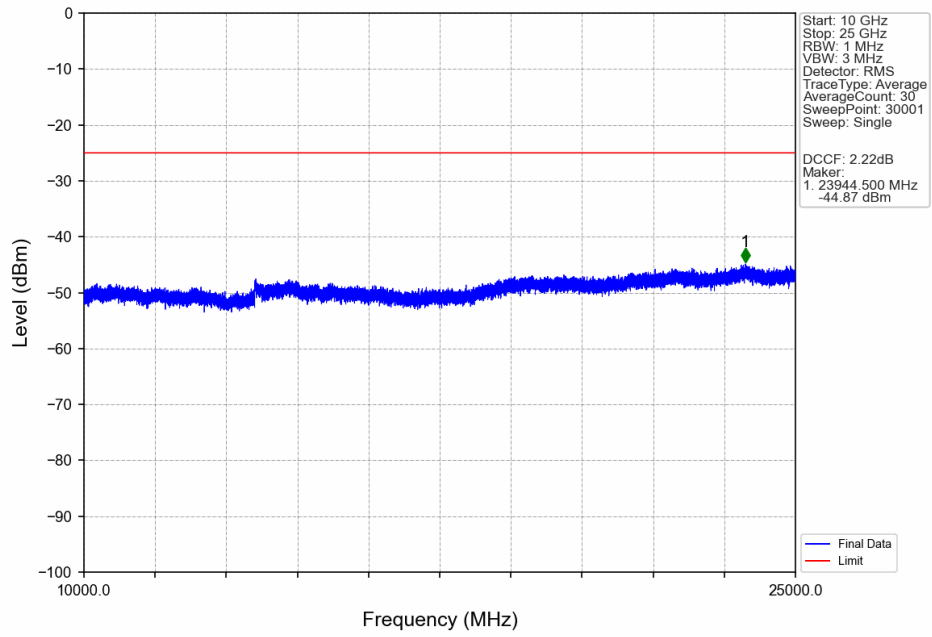


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.226	CHP	/	/	/	/	/
2620	2621	0.226	CHP	1	2620.175	-35.95	-10	Pass
2621	2625	1	CHP	2	2622.450	-36.32	-10	Pass
2625	2631.292	1	CHP	3	2625.025	-39.67	-13	Pass
2631.292	2635	1	CHP	4	2632.625	-49.21	-25	Pass

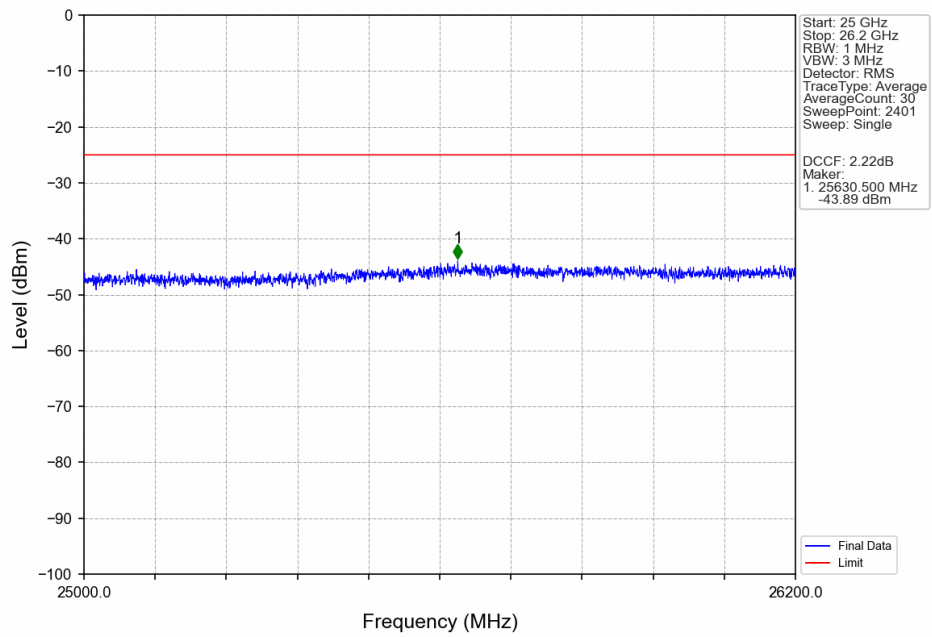
5.2.3 B38_15MHz



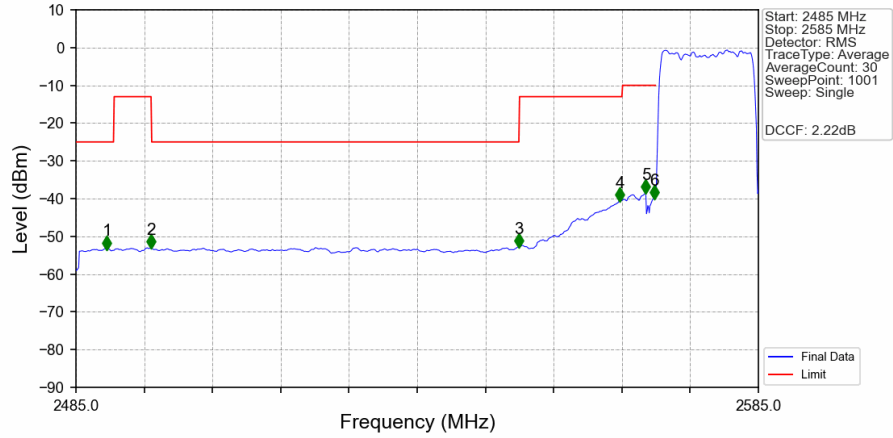
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

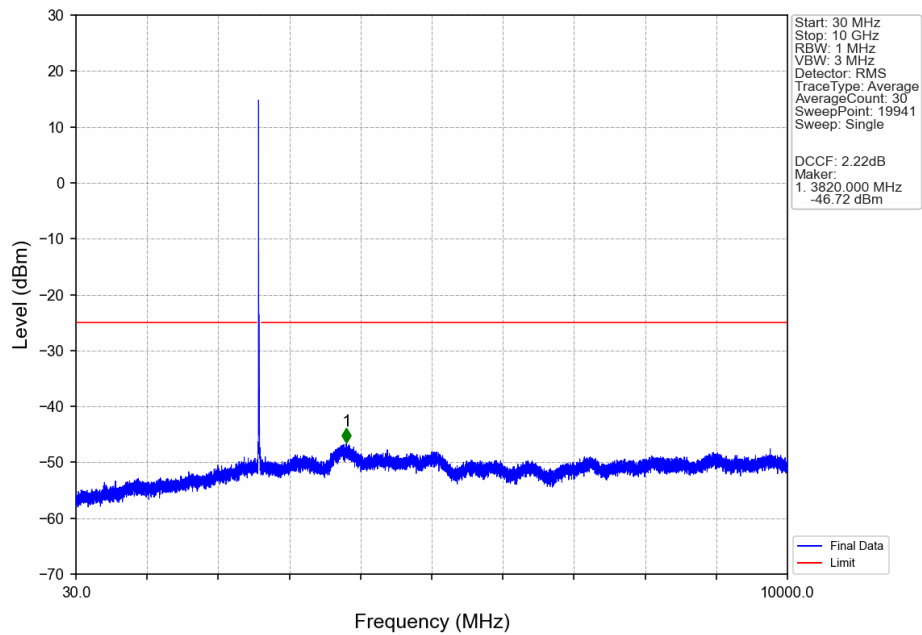


Band38 15MHz QPSK LCH 2577.5MHz RB 75 0 NTN

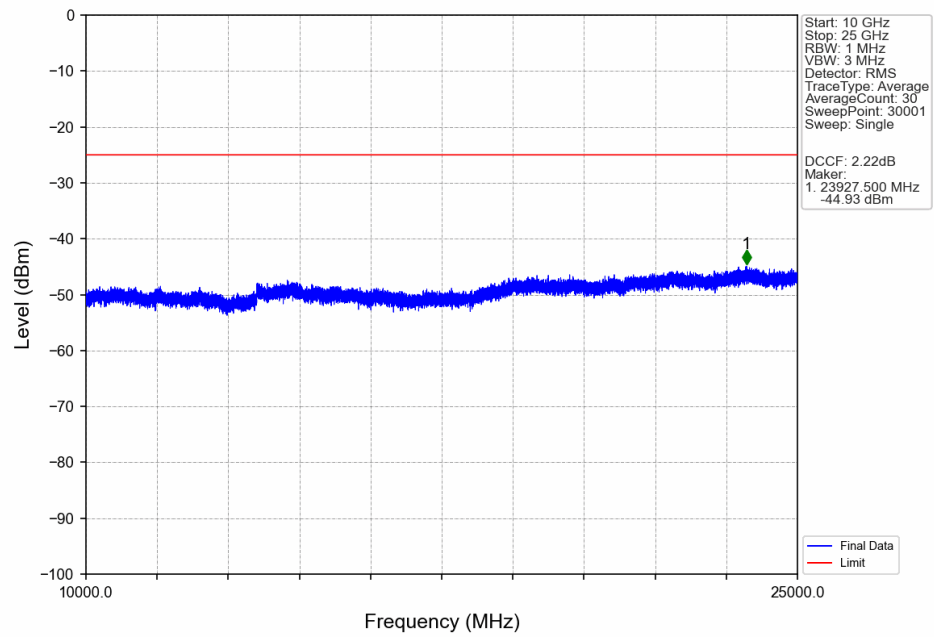


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.500	-53.26	-25	Pass
2490.5	2496	1	CHP	2	2496.000	-53.00	-13	Pass
2496	2549.913	1	CHP	3	2549.900	-52.72	-25	Pass
2549.913	2565	1	CHP	4	2564.700	-40.54	-13	Pass
2565	2569	1	CHP	5	2568.500	-38.46	-10	Pass
2569	2570	0.402	CHP	6	2569.800	-39.90	-10	Pass
2570	2585	0.402	CHP	/	/	/	/	/

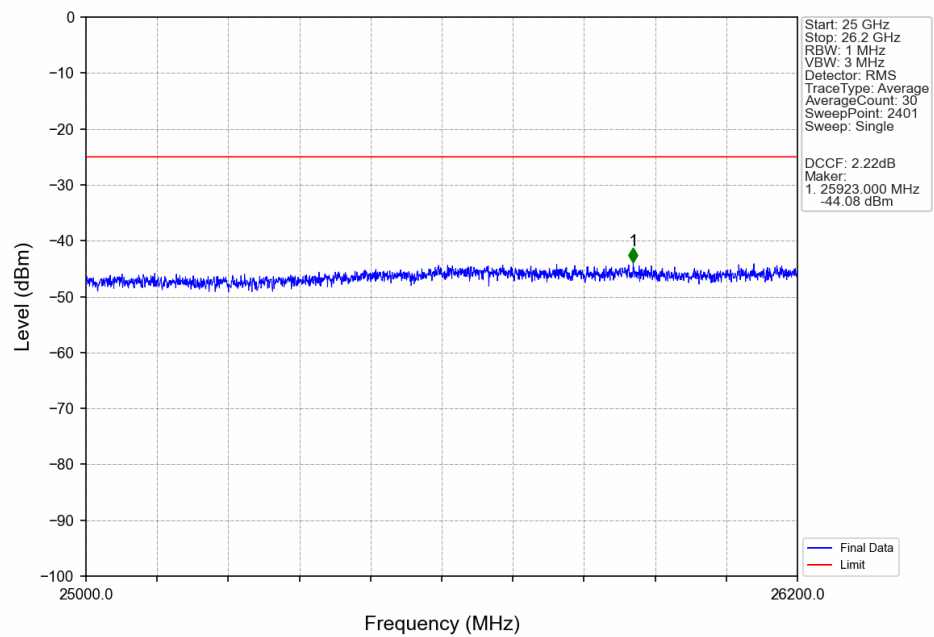
Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTN



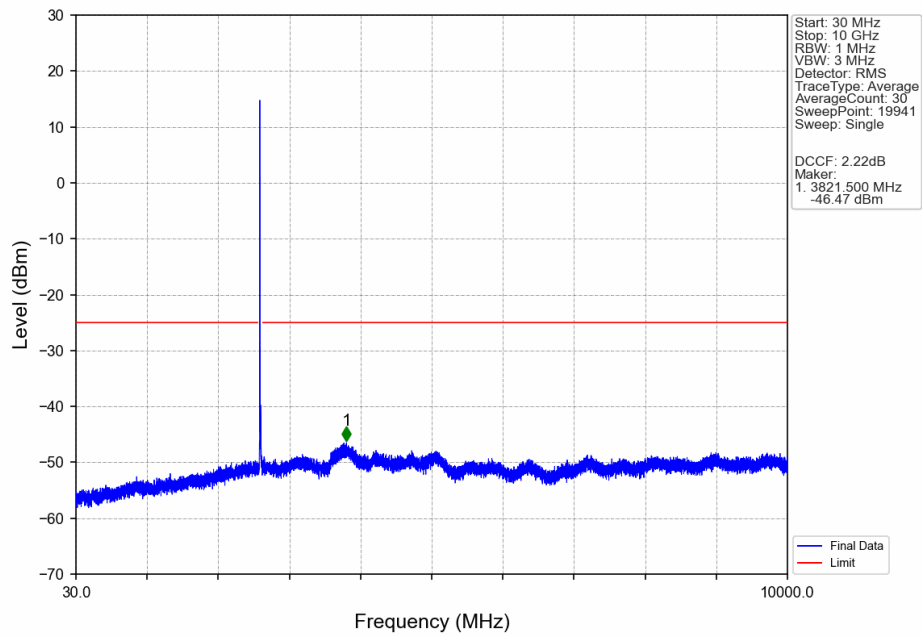
Band38 15MHz QPSK MCH 2595MHz RB 1 0 NTV



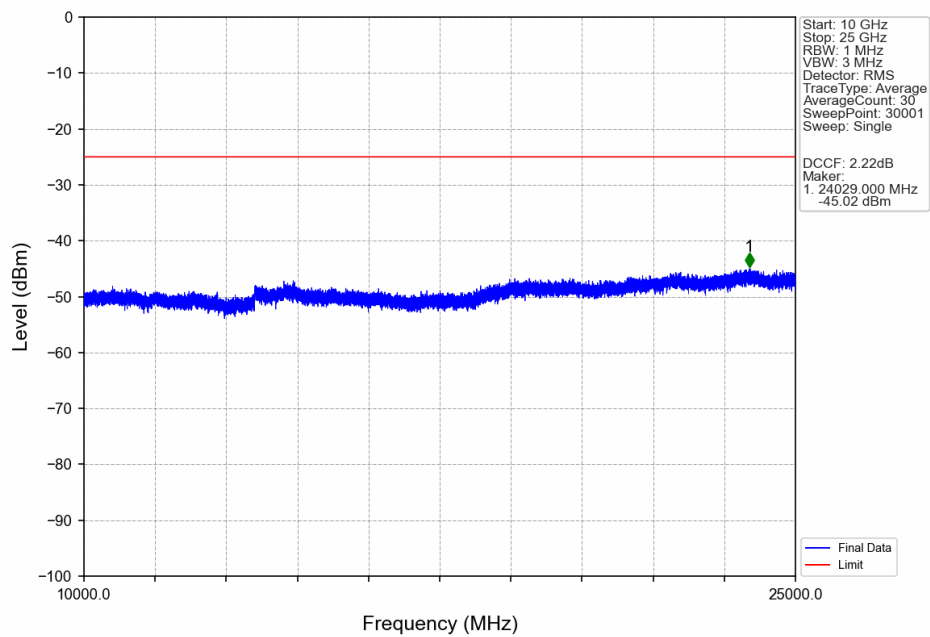
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTV



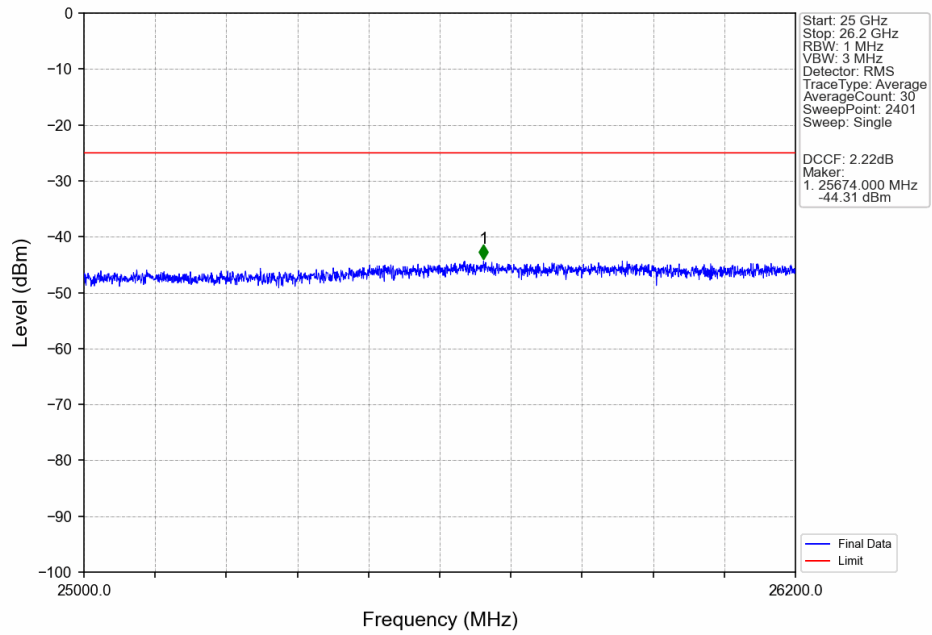
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



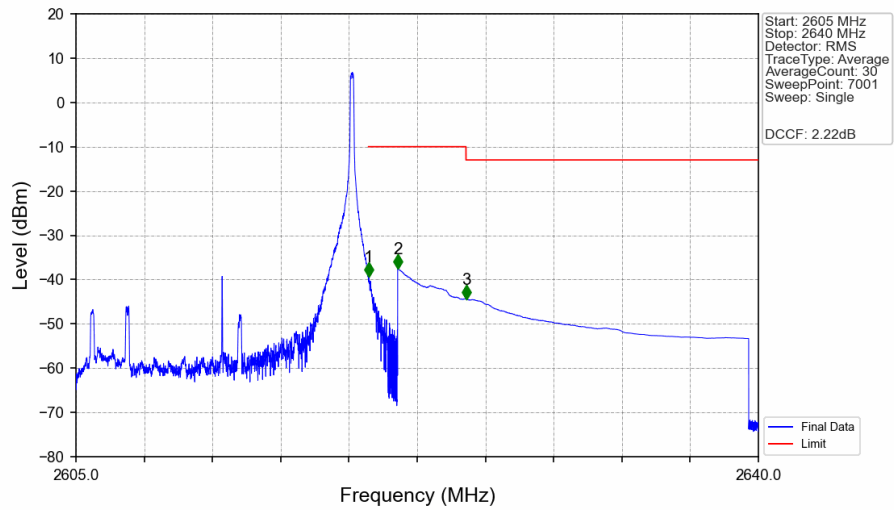
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38 15MHz QPSK HCH 2612.5MHz RB 1 0 NTV

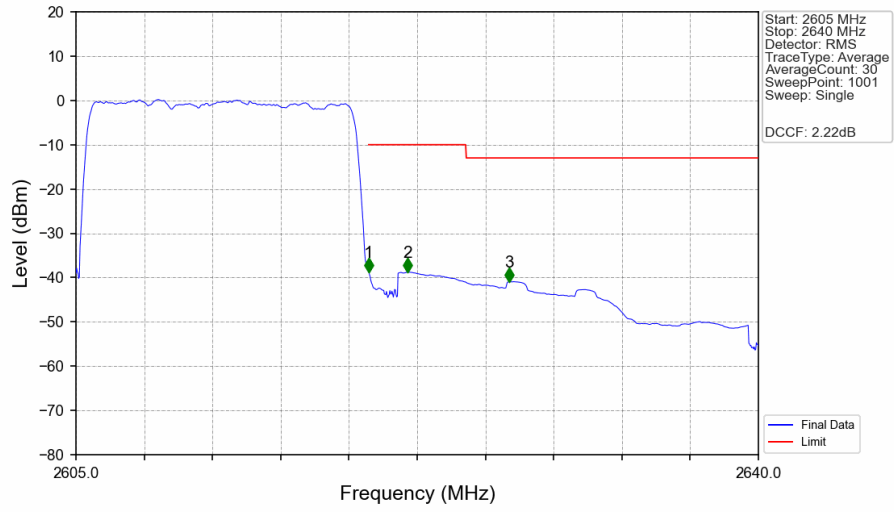


Band38 15MHz QPSK HCH 2612.5MHz RB 1 74 NTV



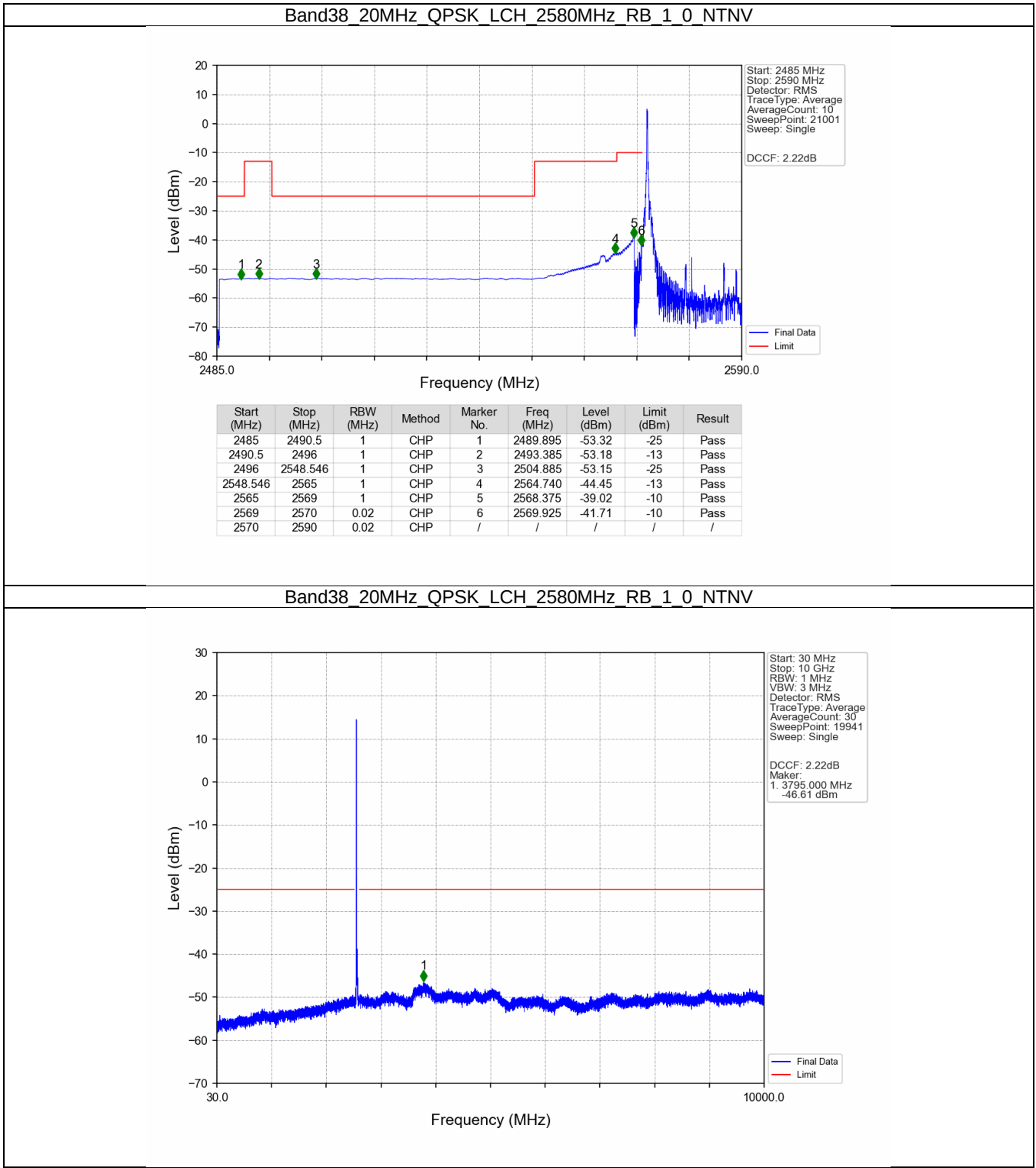
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.020	-39.30	-10	Pass
2621	2625	1	CHP	2	2621.500	-37.53	-10	Pass
2625	2640	1	CHP	3	2625.035	-44.39	-13	Pass

Band38 15MHz QPSK HCH 2612.5MHz RB 75 0 NTN

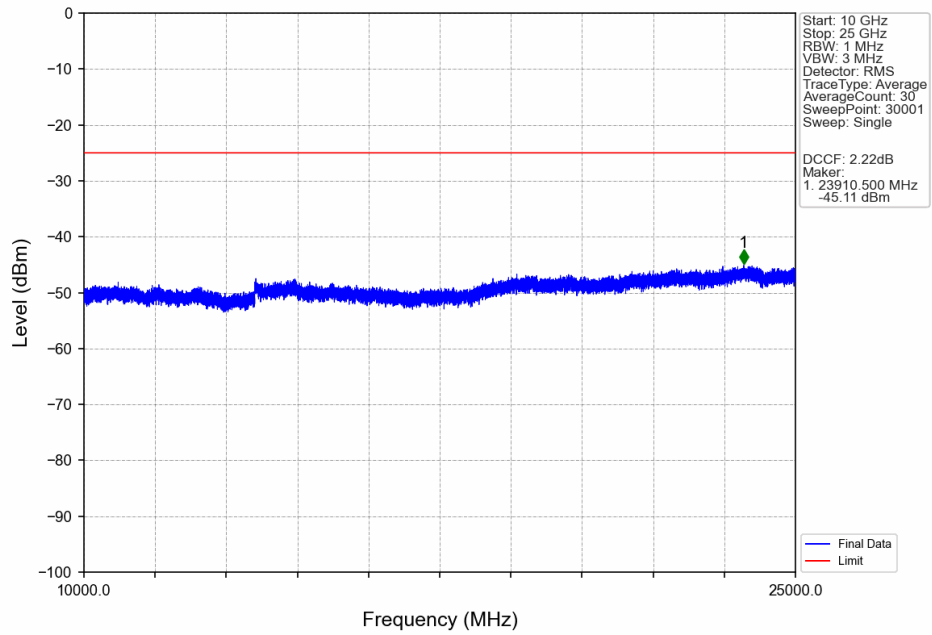


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.402	CHP	/	/	/	/	/
2620	2621	0.402	CHP	1	2620.015	-38.71	-10	Pass
2621	2625	1	CHP	2	2622.010	-38.76	-10	Pass
2625	2640	1	CHP	3	2627.225	-40.92	-13	Pass

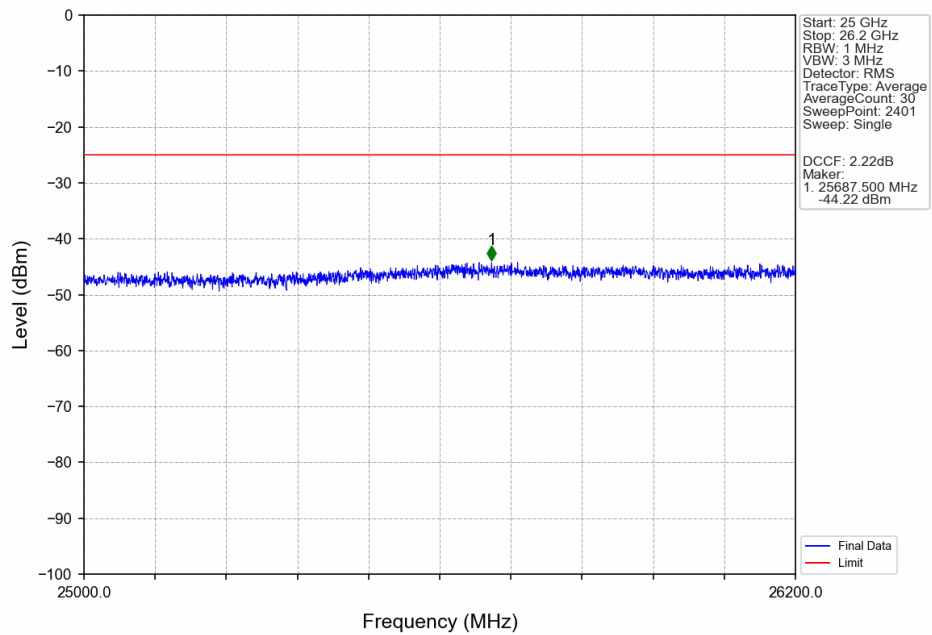
5.2.4 B38_20MHz



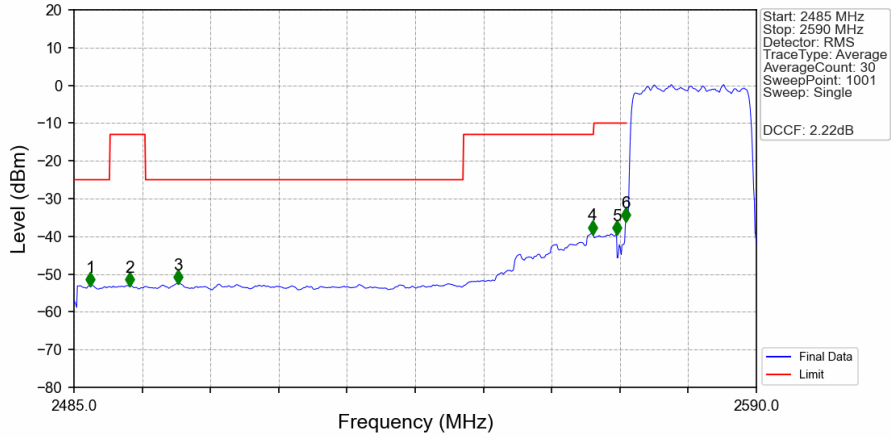
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

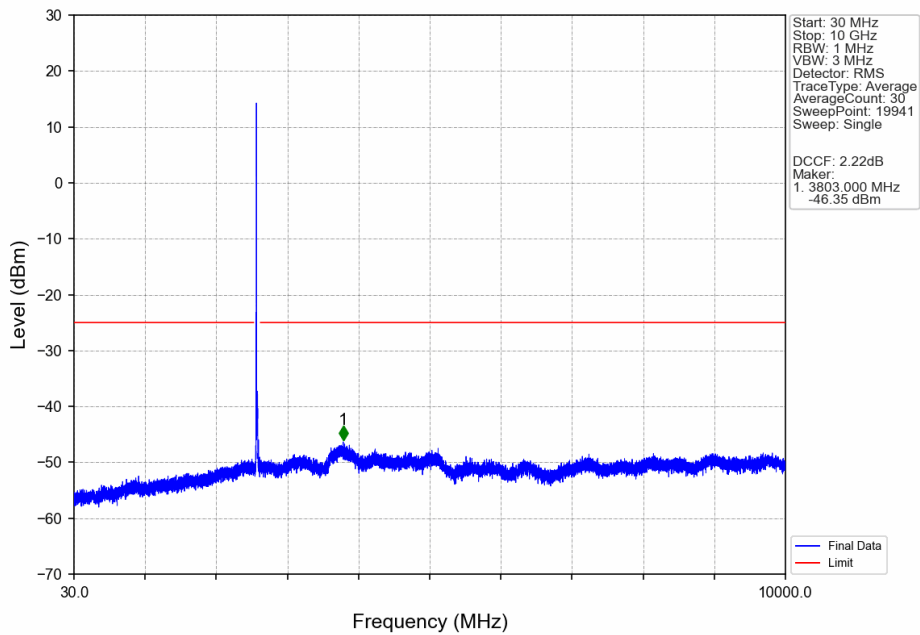


Band38 20MHz QPSK LCH 2580MHz RB 100 0 NTNV

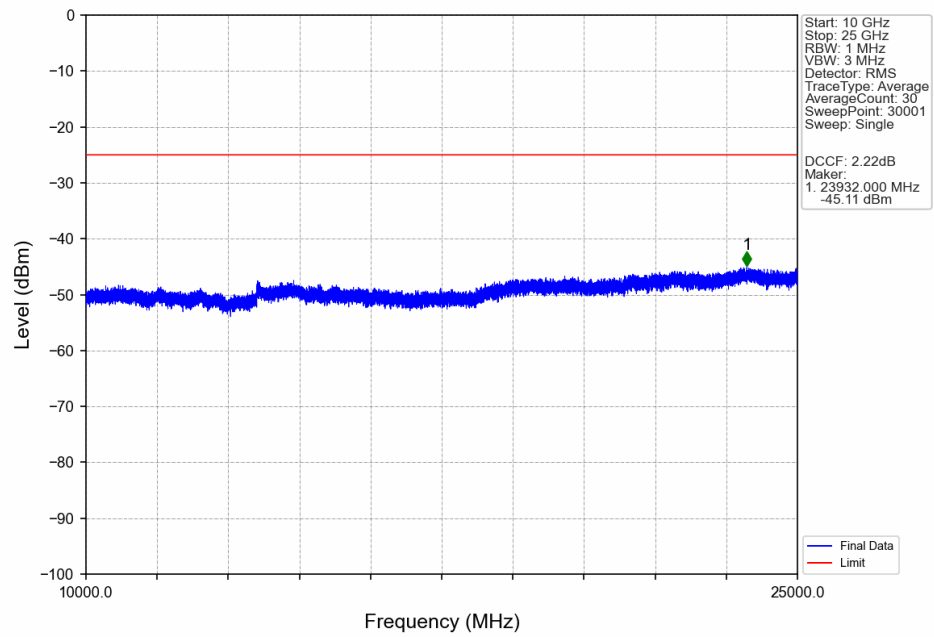


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.520	-52.99	-25	Pass
2490.5	2496	1	CHP	2	2493.610	-52.97	-13	Pass
2496	2544.922	1	CHP	3	2500.960	-52.36	-25	Pass
2544.922	2565	1	CHP	4	2564.800	-39.22	-13	Pass
2565	2569	1	CHP	5	2568.475	-39.30	-10	Pass
2569	2570	0.502	CHP	6	2569.945	-35.94	-10	Pass
2570	2590	0.502	CHP	/	/	/	/	/

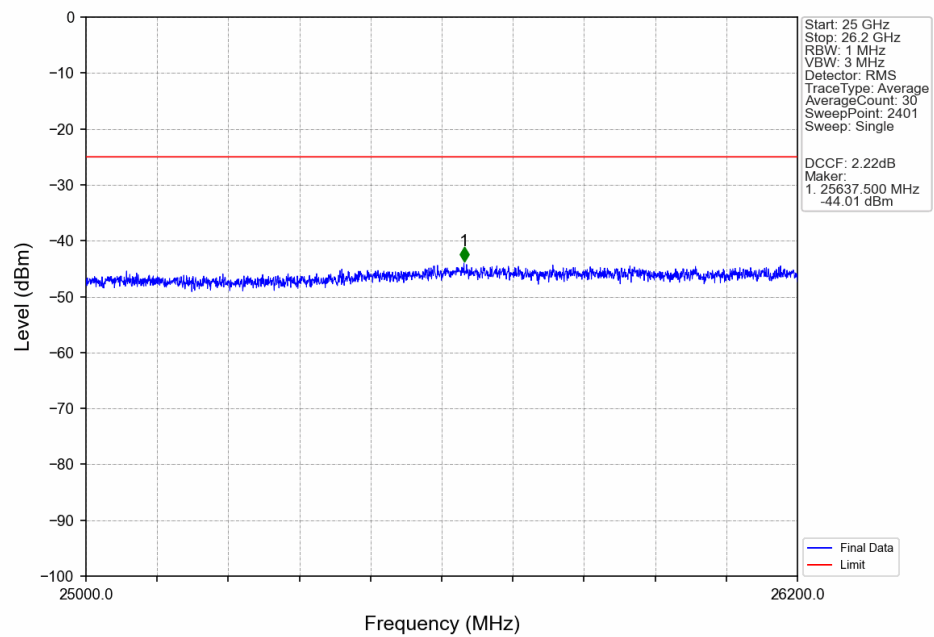
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTNV



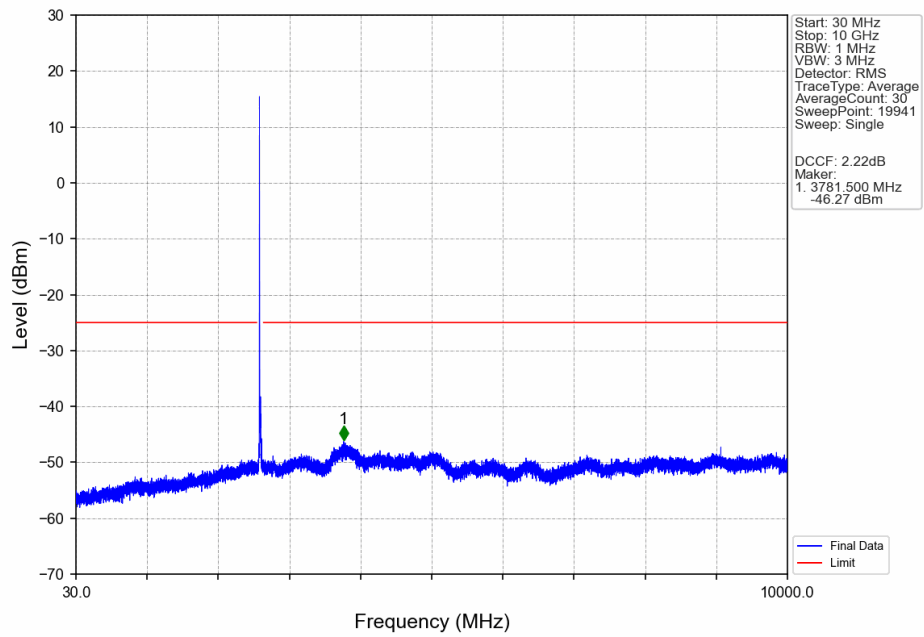
Band38 20MHz QPSK MCH 2595MHz RB 1 0 NTV



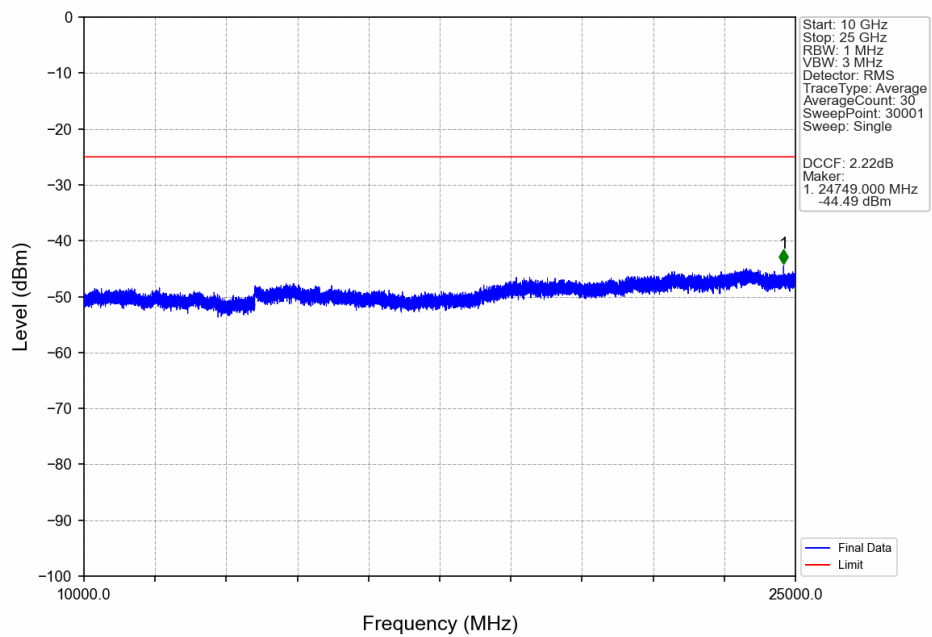
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTV



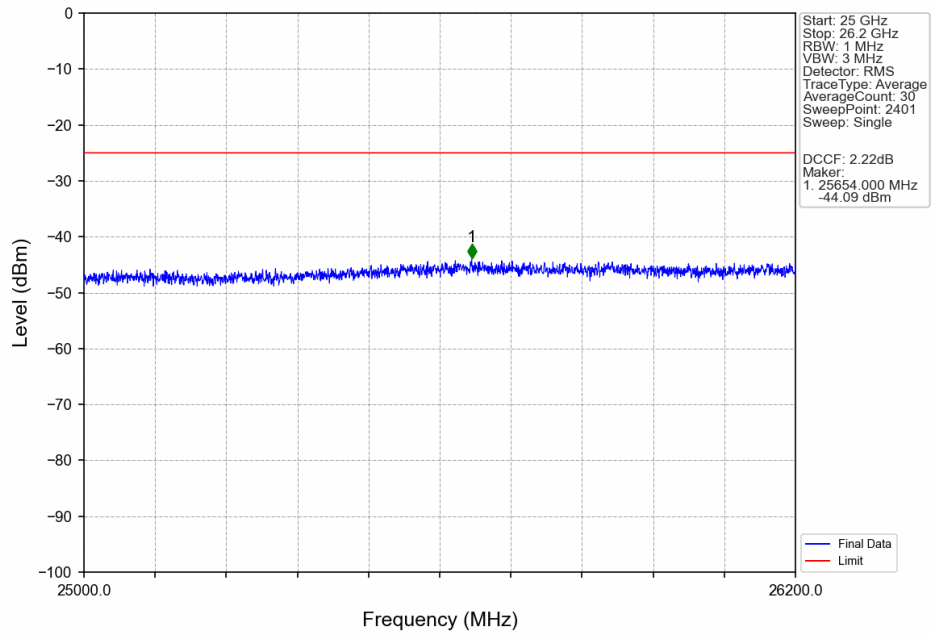
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV



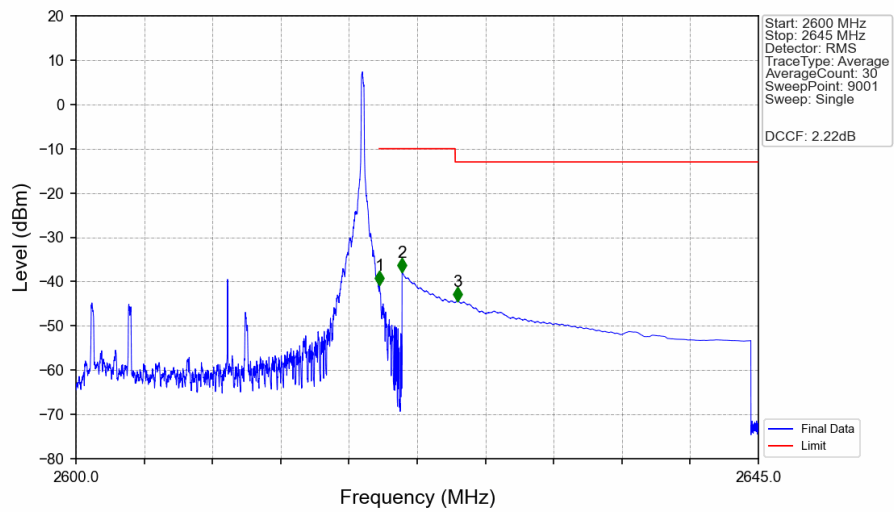
Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV



Band38 20MHz QPSK HCH 2610MHz RB 1 0 NTNV

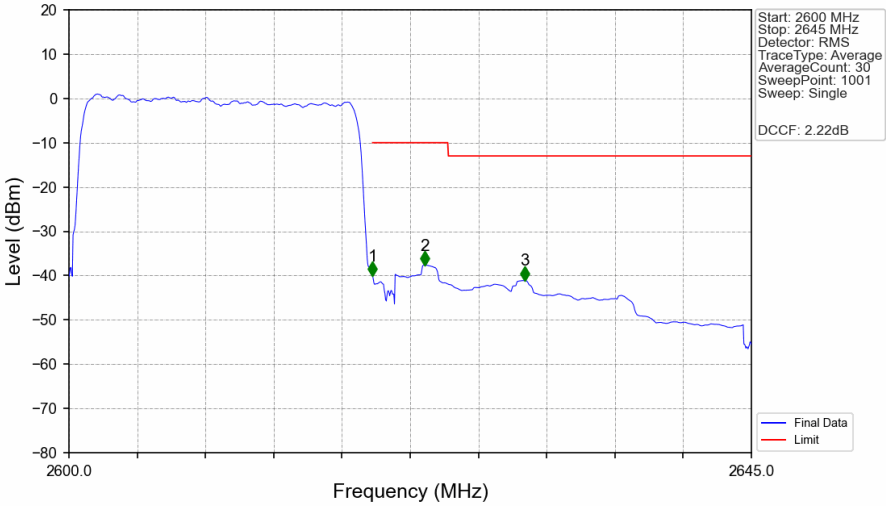


Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



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	2620.015	-40.70	-10	Pass
2621	2625	1	CHP	2	2621.500	-37.92	-10	Pass
2625	2645	1	CHP	3	2625.135	-44.34	-13	Pass

Band38 20MHz QPSK HCH 2610MHz RB 100 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2600	2620	0.502	CHP	/	/	/	/	/
2620	2621	0.502	CHP	1	2620.025	-40.04	-10	Pass
2621	2625	1	CHP	2	2623.445	-37.62	-10	Pass
2625	2645	1	CHP	3	2630.060	-41.06	-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
5142.0	-63.33	-25	-38.33	-68.94	4.62	10.23	Horizontal	Pass
7713.0	-59.64	-25	-34.64	-66.67	4.96	11.99	Horizontal	Pass
10284.0	-56.7	-25	-31.7	-64.27	5.51	13.08	Horizontal	Pass
5142.0	-63.34	-25	-38.34	-68.95	4.62	10.23	Vertical	Pass
7713.0	-59.62	-25	-34.62	-66.65	4.96	11.99	Vertical	Pass
10284.0	-56.58	-25	-31.58	-64.15	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
5172.0	-63.2	-25	-38.2	-68.82	4.63	10.25	Horizontal	Pass
7758.0	-59.13	-25	-34.13	-66.21	4.96	12.04	Horizontal	Pass
10344.0	-56.37	-25	-31.37	-63.94	5.52	13.09	Horizontal	Pass
5172.0	-63.22	-25	-38.22	-68.84	4.63	10.25	Vertical	Pass
7758.0	-59.44	-25	-34.44	-66.52	4.96	12.04	Vertical	Pass
10344.0	-56.32	-25	-31.32	-63.89	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
5202.0	-63.04	-25	-38.04	-68.68	4.63	10.27	Horizontal	Pass
7803.0	-58.71	-25	-33.71	-65.85	4.96	12.1	Horizontal	Pass
10404.0	-56.1	-25	-31.1	-63.68	5.52	13.1	Horizontal	Pass
5202.0	-62.98	-25	-37.98	-68.62	4.63	10.27	Vertical	Pass
7803.0	-59.12	-25	-34.12	-66.26	4.96	12.1	Vertical	Pass
10404.0	-56.27	-25	-31.27	-63.85	5.52	13.1	Vertical	Pass