

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B38_5MHz_EIRP

Band: 38 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2572.5	1	0	25.18	0.00	25.18	<=33.01	Pass		
			13	25.07	0.00	25.07	<=33.01	Pass		
			24	25.18	0.00	25.18	<=33.01	Pass		
		12	0	24.15	0.00	24.15	<=33.01	Pass		
			6	24.07	0.00	24.07	<=33.01	Pass		
			13	24.09	0.00	24.09	<=33.01	Pass		
		25	0	24.12	0.00	24.12	<=33.01	Pass		
		2595	1	0	25.11	0.00	25.11	<=33.01	Pass	
				13	25.15	0.00	25.15	<=33.01	Pass	
	24			25.29	0.00	25.29	<=33.01	Pass		
	12		0	24.07	0.00	24.07	<=33.01	Pass		
			6	24.08	0.00	24.08	<=33.01	Pass		
			13	24.06	0.00	24.06	<=33.01	Pass		
	25		0	24.12	0.00	24.12	<=33.01	Pass		
	2617.5		1	0	25.15	0.00	25.15	<=33.01	Pass	
				13	24.99	0.00	24.99	<=33.01	Pass	
		24		25.20	0.00	25.20	<=33.01	Pass		
		12	0	24.11	0.00	24.11	<=33.01	Pass		
			6	23.99	0.00	23.99	<=33.01	Pass		
			13	24.04	0.00	24.04	<=33.01	Pass		
		25	0	24.06	0.00	24.06	<=33.01	Pass		
		16QAM	2572.5	1	0	23.86	0.00	23.86	<=33.01	Pass
					13	24.25	0.00	24.25	<=33.01	Pass
	24				24.23	0.00	24.23	<=33.01	Pass	
12	0			23.14	0.00	23.14	<=33.01	Pass		
	6			23.11	0.00	23.11	<=33.01	Pass		
	13			23.03	0.00	23.03	<=33.01	Pass		
25	0			23.13	0.00	23.13	<=33.01	Pass		
2595	1			0	24.24	0.00	24.24	<=33.01	Pass	
				13	24.01	0.00	24.01	<=33.01	Pass	
			24	24.05	0.00	24.05	<=33.01	Pass		
	12		0	23.12	0.00	23.12	<=33.01	Pass		
			6	23.04	0.00	23.04	<=33.01	Pass		
			13	23.04	0.00	23.04	<=33.01	Pass		
	25		0	23.02	0.00	23.02	<=33.01	Pass		
	2617.5		1	0	24.01	0.00	24.01	<=33.01	Pass	
				13	24.01	0.00	24.01	<=33.01	Pass	
24				24.06	0.00	24.06	<=33.01	Pass		
12			0	23.04	0.00	23.04	<=33.01	Pass		
			6	22.99	0.00	22.99	<=33.01	Pass		
			13	23.02	0.00	23.02	<=33.01	Pass		
25			0	23.07	0.00	23.07	<=33.01	Pass		
64QAM			2572.5	1	0	22.93	0.00	22.93	<=33.01	Pass
					13	22.89	0.00	22.89	<=33.01	Pass
	24				23.02	0.00	23.02	<=33.01	Pass	
	12	0		22.04	0.00	22.04	<=33.01	Pass		
		6		21.95	0.00	21.95	<=33.01	Pass		
		13		22.07	0.00	22.07	<=33.01	Pass		
	25	0		21.96	0.00	21.96	<=33.01	Pass		

	2595	1	0	23.28	0.00	23.28	<=33.01	Pass		
			13	23.07	0.00	23.07	<=33.01	Pass		
			24	22.70	0.00	22.70	<=33.01	Pass		
		12	0	22.08	0.00	22.08	<=33.01	Pass		
			6	22.02	0.00	22.02	<=33.01	Pass		
			13	22.00	0.00	22.00	<=33.01	Pass		
		25	0	22.09	0.00	22.09	<=33.01	Pass		
		2617.5	1	0	23.48	0.00	23.48	<=33.01	Pass	
				13	22.69	0.00	22.69	<=33.01	Pass	
	24			23.40	0.00	23.40	<=33.01	Pass		
	12		0	21.91	0.00	21.91	<=33.01	Pass		
			6	22.04	0.00	22.04	<=33.01	Pass		
			13	22.04	0.00	22.04	<=33.01	Pass		
	25		0	21.99	0.00	21.99	<=33.01	Pass		
	256QAM		2572.5	1	0	20.12	0.00	20.12	<=33.01	Pass
					13	20.04	0.00	20.04	<=33.01	Pass
		24			20.14	0.00	20.14	<=33.01	Pass	
		12		0	20.13	0.00	20.13	<=33.01	Pass	
6				20.09	0.00	20.09	<=33.01	Pass		
13				20.10	0.00	20.10	<=33.01	Pass		
25		0		20.01	0.00	20.01	<=33.01	Pass		
2595		1		0	20.28	0.00	20.28	<=33.01	Pass	
				13	19.77	0.00	19.77	<=33.01	Pass	
			24	20.24	0.00	20.24	<=33.01	Pass		
		12	0	20.11	0.00	20.11	<=33.01	Pass		
			6	19.99	0.00	19.99	<=33.01	Pass		
			13	20.10	0.00	20.10	<=33.01	Pass		
		25	0	20.10	0.00	20.10	<=33.01	Pass		
		2617.5	1	0	19.78	0.00	19.78	<=33.01	Pass	
				13	20.00	0.00	20.00	<=33.01	Pass	
24				20.05	0.00	20.05	<=33.01	Pass		
12			0	20.05	0.00	20.05	<=33.01	Pass		
	6		19.94	0.00	19.94	<=33.01	Pass			
	13		19.98	0.00	19.98	<=33.01	Pass			
25	0		19.97	0.00	19.97	<=33.01	Pass			

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B38_10MHz_EIRP

Band: 38 / Bandwidth: 10MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2575	1	0	25.23	0.00	25.23	<=33.01	Pass	
			25	25.05	0.00	25.05	<=33.01	Pass	
			49	25.15	0.00	25.15	<=33.01	Pass	
		25	0	24.12	0.00	24.12	<=33.01	Pass	
			13	24.10	0.00	24.10	<=33.01	Pass	
			25	24.12	0.00	24.12	<=33.01	Pass	
		50	0	24.11	0.00	24.11	<=33.01	Pass	
		2595	1	0	25.19	0.00	25.19	<=33.01	Pass
				25	25.16	0.00	25.16	<=33.01	Pass
	49			25.02	0.00	25.02	<=33.01	Pass	
	25		0	24.15	0.00	24.15	<=33.01	Pass	
			13	24.12	0.00	24.12	<=33.01	Pass	
			25	24.08	0.00	24.08	<=33.01	Pass	
	50	0	24.12	0.00	24.12	<=33.01	Pass		
	2615	1	0	25.14	0.00	25.14	<=33.01	Pass	

		25	25	25.07	0.00	25.07	<=33.01	Pass	
			49	25.11	0.00	25.11	<=33.01	Pass	
			0	24.11	0.00	24.11	<=33.01	Pass	
			13	24.06	0.00	24.06	<=33.01	Pass	
			25	24.04	0.00	24.04	<=33.01	Pass	
		50	0	24.07	0.00	24.07	<=33.01	Pass	
			0	24.31	0.00	24.31	<=33.01	Pass	
			25	24.36	0.00	24.36	<=33.01	Pass	
			49	24.27	0.00	24.27	<=33.01	Pass	
			0	23.08	0.00	23.08	<=33.01	Pass	
16QAM	2575	1	13	23.08	0.00	23.08	<=33.01	Pass	
			25	23.08	0.00	23.08	<=33.01	Pass	
			25	23.08	0.00	23.08	<=33.01	Pass	
		25	0	23.09	0.00	23.09	<=33.01	Pass	
			0	23.09	0.00	23.09	<=33.01	Pass	
	2595	1	0	24.07	0.00	24.07	<=33.01	Pass	
			25	23.71	0.00	23.71	<=33.01	Pass	
			49	24.27	0.00	24.27	<=33.01	Pass	
		25	0	23.10	0.00	23.10	<=33.01	Pass	
			13	23.09	0.00	23.09	<=33.01	Pass	
	2615	1	25	23.08	0.00	23.08	<=33.01	Pass	
			50	0	23.07	0.00	23.07	<=33.01	Pass
			0	24.28	0.00	24.28	<=33.01	Pass	
		25	25	24.28	0.00	24.28	<=33.01	Pass	
			49	24.08	0.00	24.08	<=33.01	Pass	
64QAM	2575	1	0	23.06	0.00	23.06	<=33.01	Pass	
			13	23.05	0.00	23.05	<=33.01	Pass	
			25	23.04	0.00	23.04	<=33.01	Pass	
		25	0	23.05	0.00	23.05	<=33.01	Pass	
			0	22.82	0.00	22.82	<=33.01	Pass	
	2595	1	25	22.87	0.00	22.87	<=33.01	Pass	
			49	22.81	0.00	22.81	<=33.01	Pass	
			0	22.07	0.00	22.07	<=33.01	Pass	
		25	13	22.00	0.00	22.00	<=33.01	Pass	
			25	22.11	0.00	22.11	<=33.01	Pass	
	2615	1	50	0	22.05	0.00	22.05	<=33.01	Pass
			0	22.80	0.00	22.80	<=33.01	Pass	
			25	23.23	0.00	23.23	<=33.01	Pass	
		25	49	23.17	0.00	23.17	<=33.01	Pass	
			0	21.99	0.00	21.99	<=33.01	Pass	
256QAM	2575	1	13	22.01	0.00	22.01	<=33.01	Pass	
			25	22.08	0.00	22.08	<=33.01	Pass	
			50	0	22.02	0.00	22.02	<=33.01	Pass
		25	0	23.01	0.00	23.01	<=33.01	Pass	
			25	23.22	0.00	23.22	<=33.01	Pass	
	2595	1	49	23.08	0.00	23.08	<=33.01	Pass	
			0	21.99	0.00	21.99	<=33.01	Pass	
			13	21.94	0.00	21.94	<=33.01	Pass	
		25	25	22.01	0.00	22.01	<=33.01	Pass	
			0	21.98	0.00	21.98	<=33.01	Pass	
	2575	1	0	19.75	0.00	19.75	<=33.01	Pass	
			25	19.68	0.00	19.68	<=33.01	Pass	
			49	20.23	0.00	20.23	<=33.01	Pass	
			0	20.10	0.00	20.10	<=33.01	Pass	
			13	20.08	0.00	20.08	<=33.01	Pass	
25		25	20.08	0.00	20.08	<=33.01	Pass		
		0	20.07	0.00	20.07	<=33.01	Pass		
		0	19.92	0.00	19.92	<=33.01	Pass		
		25	20.20	0.00	20.20	<=33.01	Pass		
		49	19.73	0.00	19.73	<=33.01	Pass		
		25	0	20.06	0.00	20.06	<=33.01	Pass	

	2615	50	13	20.06	0.00	20.06	<=33.01	Pass
			25	20.07	0.00	20.07	<=33.01	Pass
		0	20.02	0.00	20.02	<=33.01	Pass	
	1	25	0	19.94	0.00	19.94	<=33.01	Pass
			25	19.96	0.00	19.96	<=33.01	Pass
			49	19.98	0.00	19.98	<=33.01	Pass
	50	0	0	20.08	0.00	20.08	<=33.01	Pass
			13	20.02	0.00	20.02	<=33.01	Pass
			25	19.98	0.00	19.98	<=33.01	Pass
				0	20.03	0.00	20.03	<=33.01
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.3 B38_15MHz_EIRP

Band: 38 / Bandwidth: 15MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	2577.5	1	0	25.28	0.00	25.28	<=33.01	Pass		
			38	25.10	0.00	25.10	<=33.01	Pass		
			74	25.17	0.00	25.17	<=33.01	Pass		
		36	0	24.10	0.00	24.10	<=33.01	Pass		
			18	24.05	0.00	24.05	<=33.01	Pass		
			39	24.06	0.00	24.06	<=33.01	Pass		
		75	0	24.08	0.00	24.08	<=33.01	Pass		
		2595	1	0	25.15	0.00	25.15	<=33.01	Pass	
				38	25.23	0.00	25.23	<=33.01	Pass	
	74			25.17	0.00	25.17	<=33.01	Pass		
	36		0	24.05	0.00	24.05	<=33.01	Pass		
			18	24.03	0.00	24.03	<=33.01	Pass		
			39	24.02	0.00	24.02	<=33.01	Pass		
	75	0	24.08	0.00	24.08	<=33.01	Pass			
	2612.5	1	0	25.40	0.00	25.40	<=33.01	Pass		
			38	25.06	0.00	25.06	<=33.01	Pass		
			74	25.01	0.00	25.01	<=33.01	Pass		
		36	0	24.07	0.00	24.07	<=33.01	Pass		
			18	24.02	0.00	24.02	<=33.01	Pass		
			39	24.03	0.00	24.03	<=33.01	Pass		
		75	0	24.06	0.00	24.06	<=33.01	Pass		
		16QAM	2577.5	1	0	24.30	0.00	24.30	<=33.01	Pass
					38	24.15	0.00	24.15	<=33.01	Pass
	74				24.15	0.00	24.15	<=33.01	Pass	
36	0			23.08	0.00	23.08	<=33.01	Pass		
	18			23.07	0.00	23.07	<=33.01	Pass		
	39			23.02	0.00	23.02	<=33.01	Pass		
75	0			23.12	0.00	23.12	<=33.01	Pass		
2595	1			0	24.24	0.00	24.24	<=33.01	Pass	
				38	24.11	0.00	24.11	<=33.01	Pass	
			74	24.13	0.00	24.13	<=33.01	Pass		
	36		0	23.11	0.00	23.11	<=33.01	Pass		
			18	23.07	0.00	23.07	<=33.01	Pass		
			39	23.05	0.00	23.05	<=33.01	Pass		
75	0		23.10	0.00	23.10	<=33.01	Pass			
2612.5	1		0	24.00	0.00	24.00	<=33.01	Pass		
			38	23.93	0.00	23.93	<=33.01	Pass		
			74	23.90	0.00	23.90	<=33.01	Pass		
	36		0	23.09	0.00	23.09	<=33.01	Pass		
			18	23.00	0.00	23.00	<=33.01	Pass		

64QAM	2577.5	75	39	23.03	0.00	23.03	<=33.01	Pass	
			75	0	23.10	0.00	23.10	<=33.01	Pass
			1	0	22.82	0.00	22.82	<=33.01	Pass
		38		23.44	0.00	23.44	<=33.01	Pass	
		74		23.38	0.00	23.38	<=33.01	Pass	
		36	0	22.11	0.00	22.11	<=33.01	Pass	
	18		22.01	0.00	22.01	<=33.01	Pass		
	39		22.04	0.00	22.04	<=33.01	Pass		
	75	0	22.07	0.00	22.07	<=33.01	Pass		
	2595	1	0	22.66	0.00	22.66	<=33.01	Pass	
			38	22.61	0.00	22.61	<=33.01	Pass	
			74	23.16	0.00	23.16	<=33.01	Pass	
		36	0	22.14	0.00	22.14	<=33.01	Pass	
			18	22.03	0.00	22.03	<=33.01	Pass	
			39	22.04	0.00	22.04	<=33.01	Pass	
	75	0	22.13	0.00	22.13	<=33.01	Pass		
	2612.5	1	0	23.68	0.00	23.68	<=33.01	Pass	
			38	23.39	0.00	23.39	<=33.01	Pass	
			74	22.73	0.00	22.73	<=33.01	Pass	
		36	0	22.11	0.00	22.11	<=33.01	Pass	
			18	21.98	0.00	21.98	<=33.01	Pass	
			39	22.06	0.00	22.06	<=33.01	Pass	
	75	0	22.09	0.00	22.09	<=33.01	Pass		
	256QAM	2577.5	1	0	20.24	0.00	20.24	<=33.01	Pass
38				20.00	0.00	20.00	<=33.01	Pass	
74				20.02	0.00	20.02	<=33.01	Pass	
36			0	20.07	0.00	20.07	<=33.01	Pass	
			18	20.01	0.00	20.01	<=33.01	Pass	
			39	20.01	0.00	20.01	<=33.01	Pass	
75		0	20.02	0.00	20.02	<=33.01	Pass		
2595		1	0	20.20	0.00	20.20	<=33.01	Pass	
			38	20.08	0.00	20.08	<=33.01	Pass	
			74	19.98	0.00	19.98	<=33.01	Pass	
		36	0	20.07	0.00	20.07	<=33.01	Pass	
			18	20.06	0.00	20.06	<=33.01	Pass	
			39	20.04	0.00	20.04	<=33.01	Pass	
75		0	20.10	0.00	20.10	<=33.01	Pass		
2612.5		1	0	19.83	0.00	19.83	<=33.01	Pass	
			38	19.98	0.00	19.98	<=33.01	Pass	
			74	20.25	0.00	20.25	<=33.01	Pass	
		36	0	20.03	0.00	20.03	<=33.01	Pass	
			18	20.01	0.00	20.01	<=33.01	Pass	
			39	20.03	0.00	20.03	<=33.01	Pass	
75		0	20.02	0.00	20.02	<=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	25.19	0.00	25.19	<=33.01	Pass
			50	25.17	0.00	25.17	<=33.01	Pass
			99	25.11	0.00	25.11	<=33.01	Pass
		50	0	24.19	0.00	24.19	<=33.01	Pass
			25	24.17	0.00	24.17	<=33.01	Pass
			50	24.15	0.00	24.15	<=33.01	Pass

	2595	100	0	24.17	0.00	24.17	<=33.01	Pass	
		1	0	25.22	0.00	25.22	<=33.01	Pass	
			50	25.08	0.00	25.08	<=33.01	Pass	
			99	25.12	0.00	25.12	<=33.01	Pass	
			0	24.18	0.00	24.18	<=33.01	Pass	
		50	25	24.12	0.00	24.12	<=33.01	Pass	
	50		24.11	0.00	24.11	<=33.01	Pass		
	100	0	24.14	0.00	24.14	<=33.01	Pass		
	2610	1	0	25.12	0.00	25.12	<=33.01	Pass	
			50	25.09	0.00	25.09	<=33.01	Pass	
			99	25.03	0.00	25.03	<=33.01	Pass	
		50	0	24.13	0.00	24.13	<=33.01	Pass	
25			24.09	0.00	24.09	<=33.01	Pass		
50			24.04	0.00	24.04	<=33.01	Pass		
100	0	24.12	0.00	24.12	<=33.01	Pass			
16QAM	2580	1	0	24.25	0.00	24.25	<=33.01	Pass	
			50	24.17	0.00	24.17	<=33.01	Pass	
			99	24.15	0.00	24.15	<=33.01	Pass	
		50	0	23.18	0.00	23.18	<=33.01	Pass	
			25	23.14	0.00	23.14	<=33.01	Pass	
			50	23.11	0.00	23.11	<=33.01	Pass	
	100	0	23.12	0.00	23.12	<=33.01	Pass		
	2595	1	0	23.92	0.00	23.92	<=33.01	Pass	
			50	23.99	0.00	23.99	<=33.01	Pass	
			99	24.24	0.00	24.24	<=33.01	Pass	
		50	0	23.13	0.00	23.13	<=33.01	Pass	
			25	23.15	0.00	23.15	<=33.01	Pass	
			50	23.09	0.00	23.09	<=33.01	Pass	
	100	0	23.15	0.00	23.15	<=33.01	Pass		
	2610	1	0	24.15	0.00	24.15	<=33.01	Pass	
			50	24.12	0.00	24.12	<=33.01	Pass	
			99	24.07	0.00	24.07	<=33.01	Pass	
		50	0	23.13	0.00	23.13	<=33.01	Pass	
			25	23.09	0.00	23.09	<=33.01	Pass	
			50	23.07	0.00	23.07	<=33.01	Pass	
	100	0	23.06	0.00	23.06	<=33.01	Pass		
	64QAM	2580	1	0	22.90	0.00	22.90	<=33.01	Pass
				50	22.93	0.00	22.93	<=33.01	Pass
				99	23.23	0.00	23.23	<=33.01	Pass
50			0	22.18	0.00	22.18	<=33.01	Pass	
			25	22.14	0.00	22.14	<=33.01	Pass	
			50	22.11	0.00	22.11	<=33.01	Pass	
100		0	22.16	0.00	22.16	<=33.01	Pass		
2595		1	0	23.01	0.00	23.01	<=33.01	Pass	
			50	22.87	0.00	22.87	<=33.01	Pass	
			99	22.82	0.00	22.82	<=33.01	Pass	
		50	0	22.17	0.00	22.17	<=33.01	Pass	
			25	22.19	0.00	22.19	<=33.01	Pass	
			50	22.17	0.00	22.17	<=33.01	Pass	
100		0	22.15	0.00	22.15	<=33.01	Pass		
2610		1	0	23.59	0.00	23.59	<=33.01	Pass	
			50	23.41	0.00	23.41	<=33.01	Pass	
			99	23.23	0.00	23.23	<=33.01	Pass	
		50	0	22.04	0.00	22.04	<=33.01	Pass	
			25	22.00	0.00	22.00	<=33.01	Pass	
			50	22.08	0.00	22.08	<=33.01	Pass	
100		0	22.09	0.00	22.09	<=33.01	Pass		
256QAM		2580	1	0	19.13	0.00	19.13	<=33.01	Pass
				50	20.35	0.00	20.35	<=33.01	Pass

	2595	50	99	19.90	0.00	19.90	<=33.01	Pass
			0	20.13	0.00	20.13	<=33.01	Pass
			25	20.12	0.00	20.12	<=33.01	Pass
			50	20.08	0.00	20.08	<=33.01	Pass
			100	0	20.11	0.00	20.11	<=33.01
	2595	1	0	19.88	0.00	19.88	<=33.01	Pass
			50	19.72	0.00	19.72	<=33.01	Pass
			99	20.46	0.00	20.46	<=33.01	Pass
		50	0	20.15	0.00	20.15	<=33.01	Pass
			25	20.13	0.00	20.13	<=33.01	Pass
			50	20.09	0.00	20.09	<=33.01	Pass
		100	0	20.11	0.00	20.11	<=33.01	Pass
		2610	1	0	20.20	0.00	20.20	<=33.01
	50			20.17	0.00	20.17	<=33.01	Pass
	99			20.22	0.00	20.22	<=33.01	Pass
	50		0	20.07	0.00	20.07	<=33.01	Pass
			25	20.05	0.00	20.05	<=33.01	Pass
			50	20.00	0.00	20.00	<=33.01	Pass
	100		0	20.05	0.00	20.05	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2595	50	0	20	LV	-4.100	-0.0016	-2.5 to 2.5	Pass
					NV	3.700	0.0014	-2.5 to 2.5	Pass
					HV	0.100	0.0000	-2.5 to 2.5	Pass
				-30	NV	-0.700	-0.0003	-2.5 to 2.5	Pass
				-20	NV	-0.600	-0.0002	-2.5 to 2.5	Pass
				-10	NV	3.400	0.0013	-2.5 to 2.5	Pass
				0	NV	0.900	0.0003	-2.5 to 2.5	Pass
				10	NV	-1.800	-0.0007	-2.5 to 2.5	Pass
				30	NV	-1.400	-0.0005	-2.5 to 2.5	Pass
				40	NV	-15.300	-0.0059	-2.5 to 2.5	Pass
				50	NV	-8.300	-0.0032	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band38_OBW

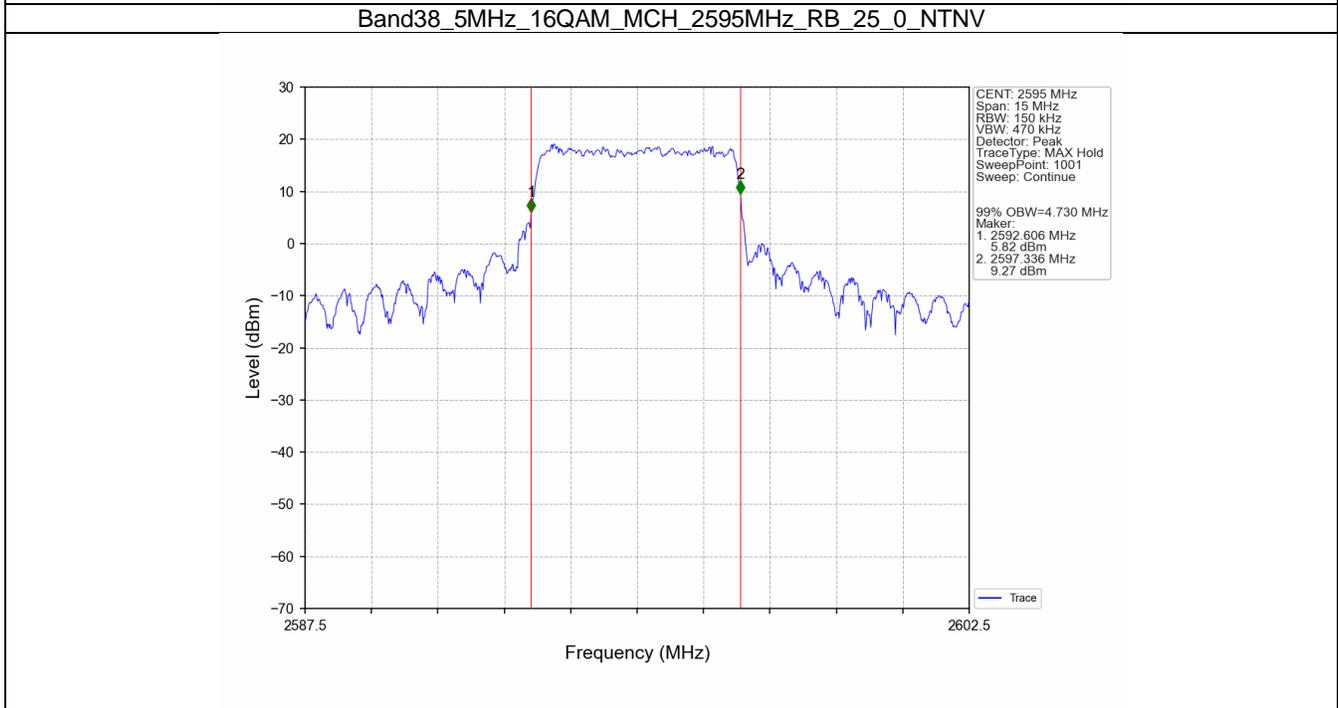
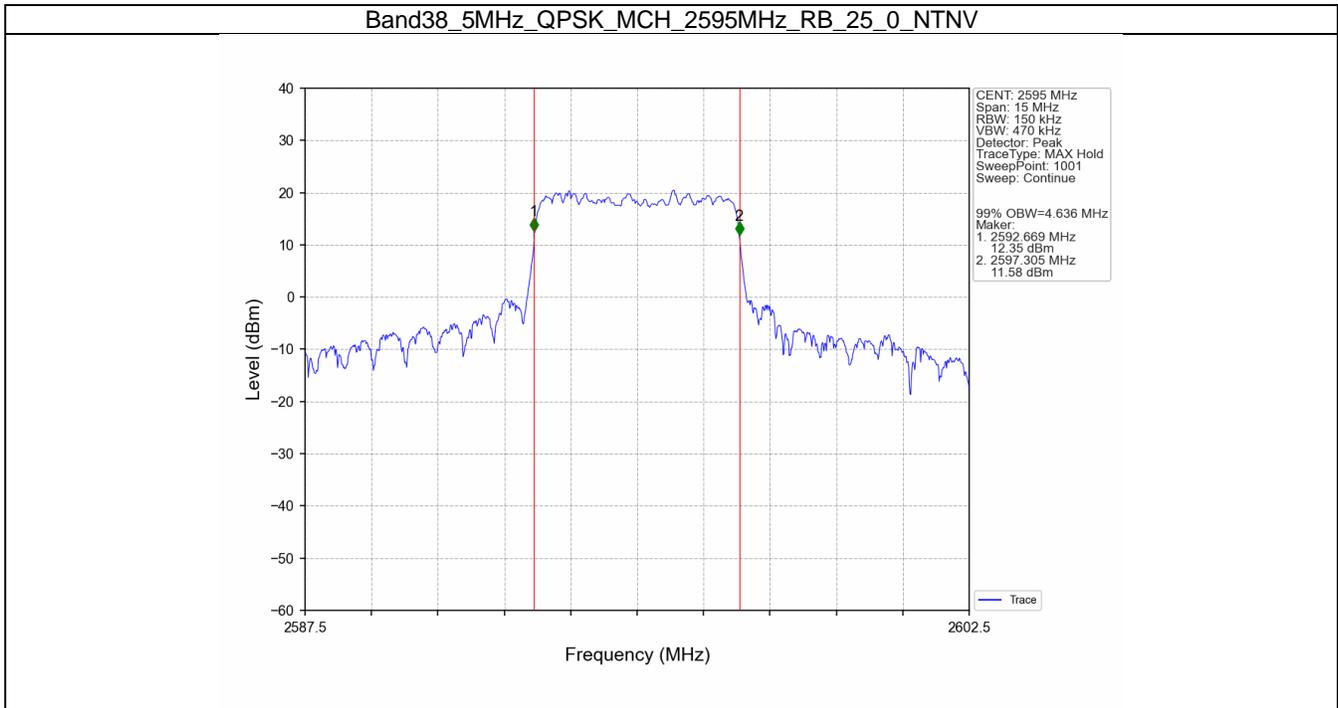
Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	4.636	/	Pass
	16QAM	2595	25	0	4.730	/	Pass
10	QPSK	2595	50	0	9.352	/	Pass
	16QAM	2595	50	0	10.119	/	Pass
15	QPSK	2595	75	0	15.785	/	Pass
	16QAM	2595	75	0	16.259	/	Pass
20	QPSK	2595	100	0	21.552	/	Pass
	16QAM	2595	100	0	21.643	/	Pass

3.1.2 Band38_XDB

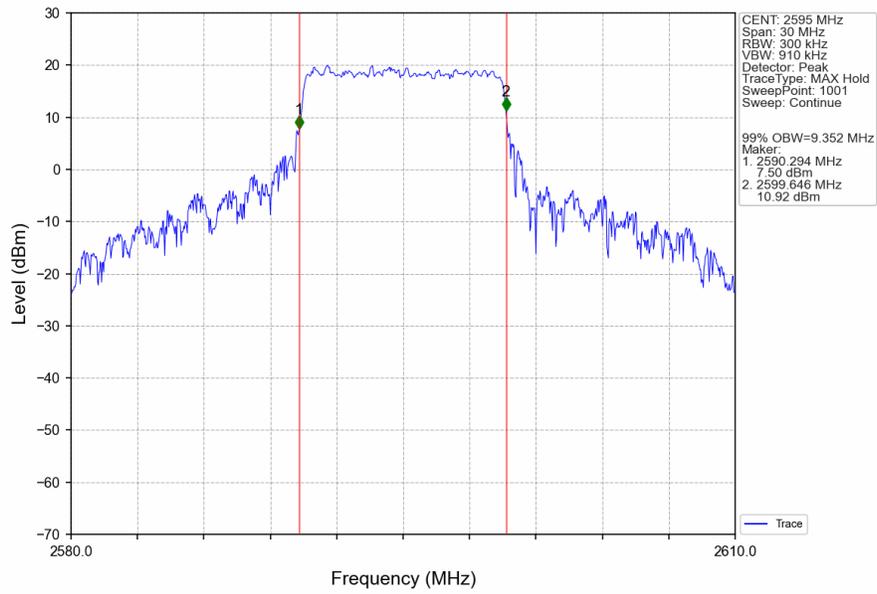
Band: 38 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2595	25	0	7.458	/	Pass
	16QAM	2595	25	0	9.601	/	Pass
10	QPSK	2595	50	0	18.738	/	Pass
	16QAM	2595	50	0	21.103	/	Pass
15	QPSK	2595	75	0	32.834	/	Pass
	16QAM	2595	75	0	37.089	/	Pass
20	QPSK	2595	100	0	39.252	/	Pass
	16QAM	2595	100	0	43.541	/	Pass

3.2 Test Graph

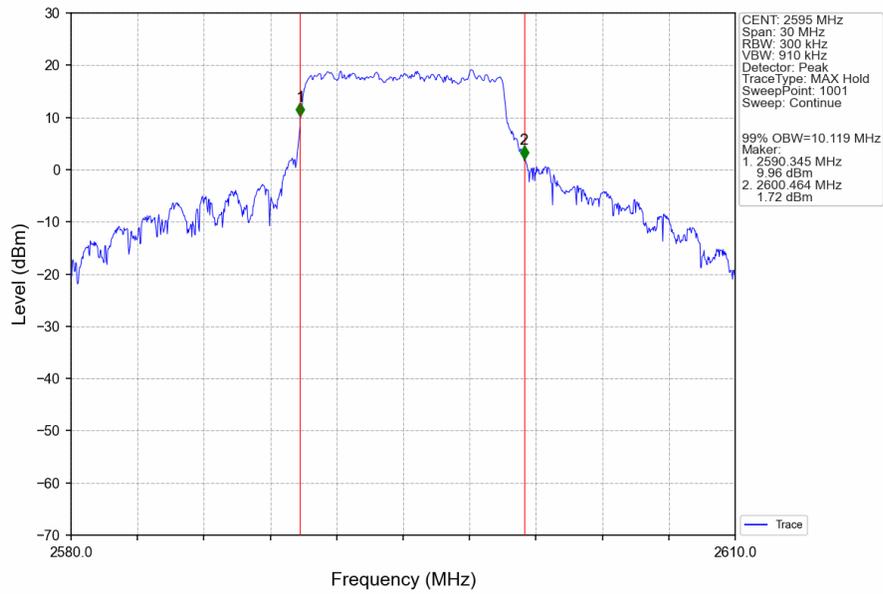
3.2.1 Band38_OBW



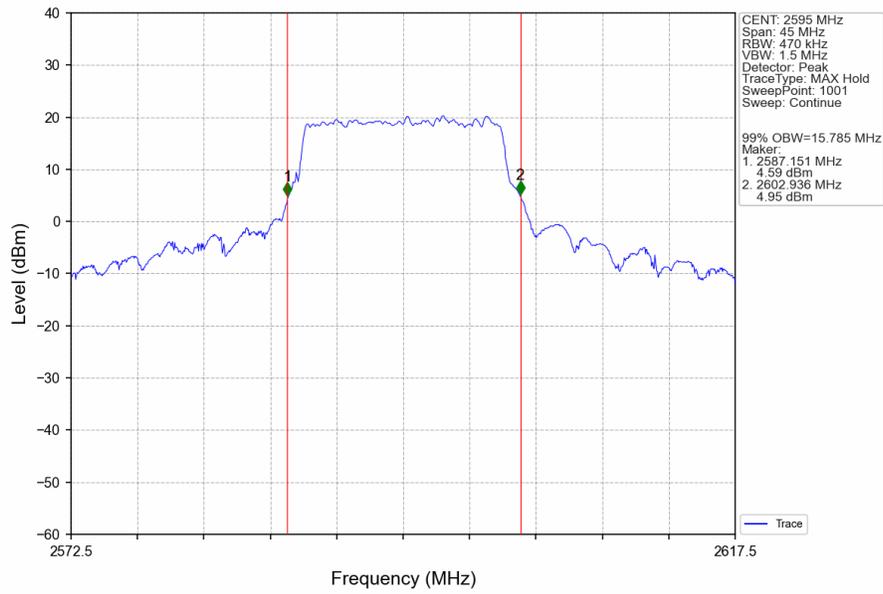
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



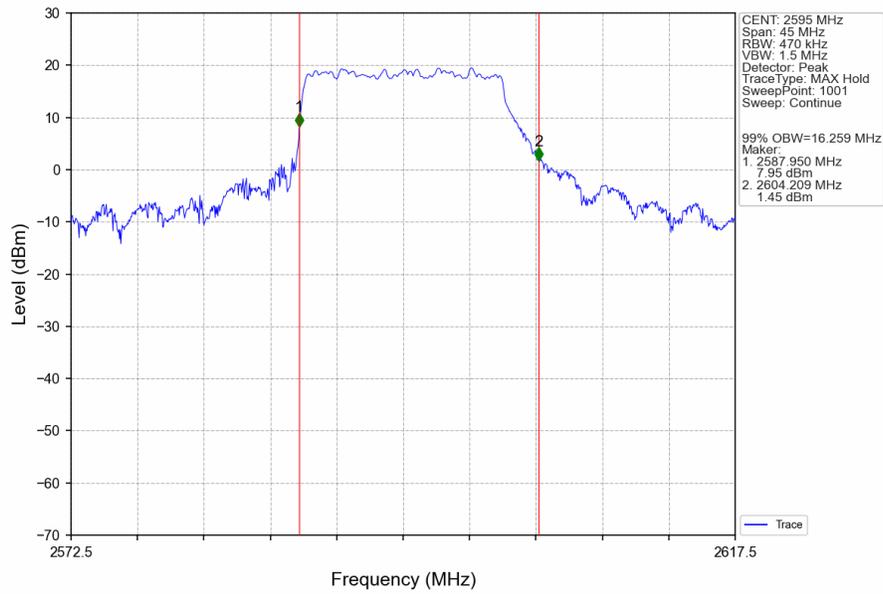
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



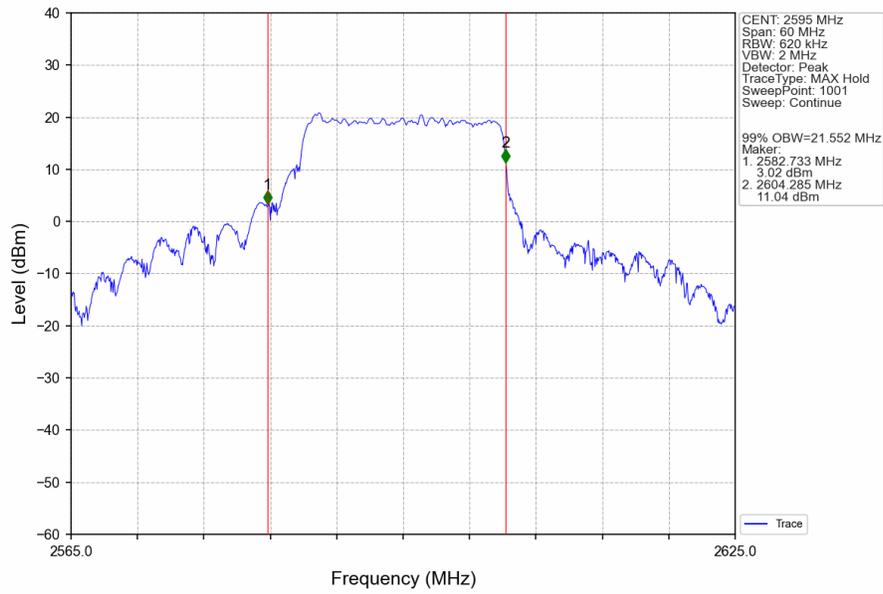
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



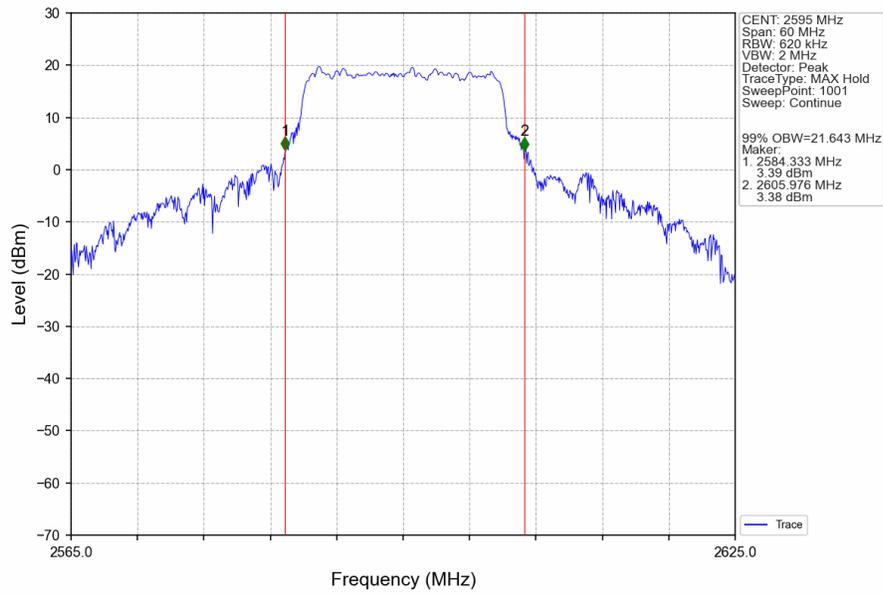
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



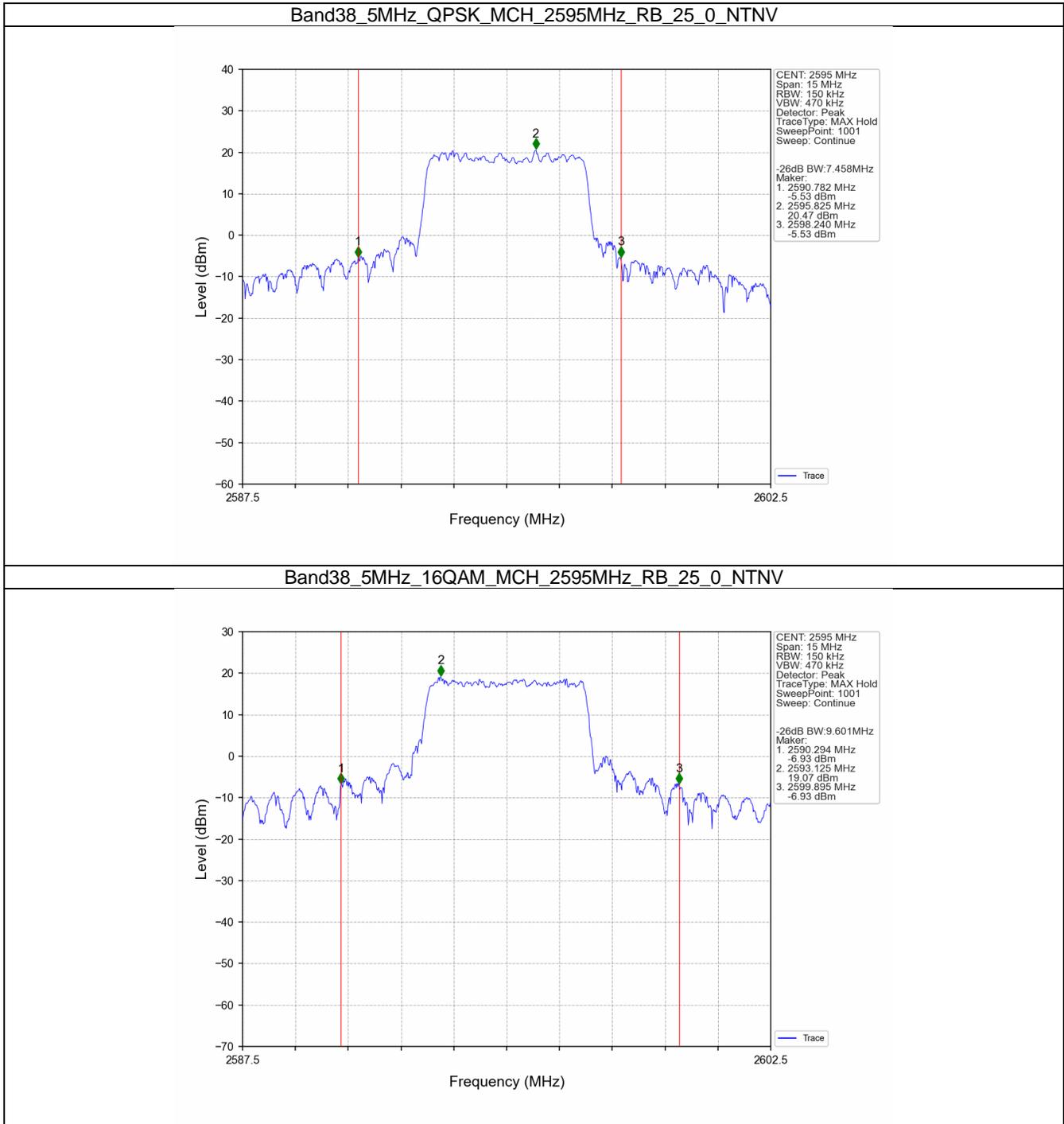
Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



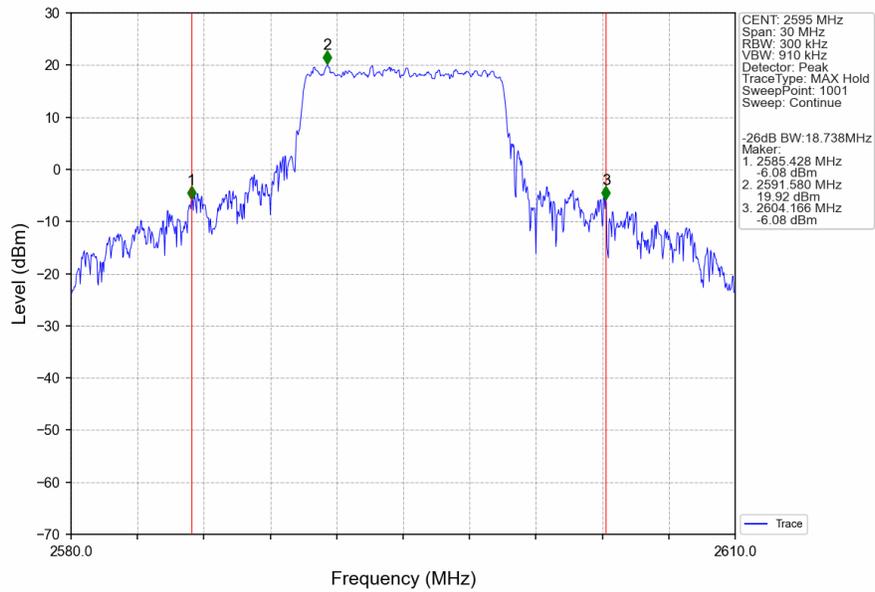
Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



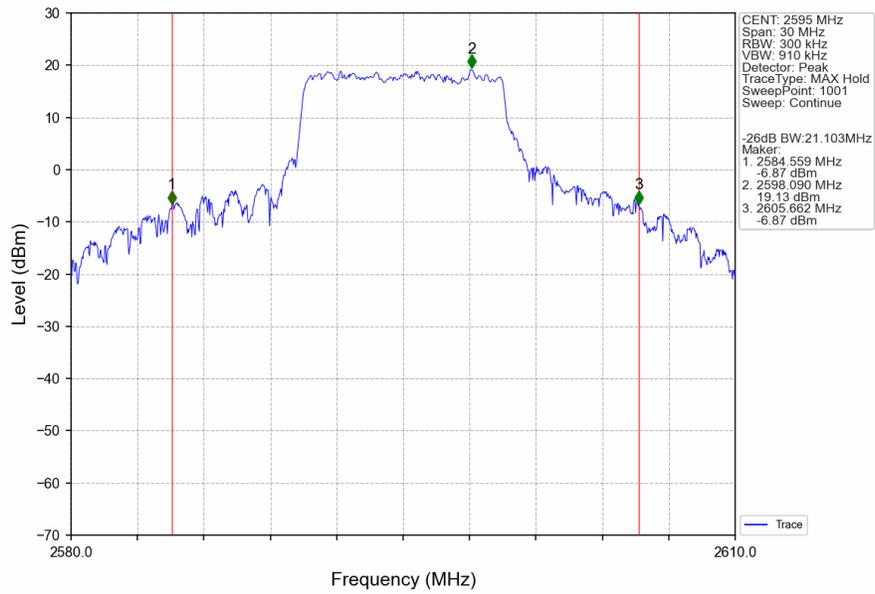
3.2.2 Band38_XDB



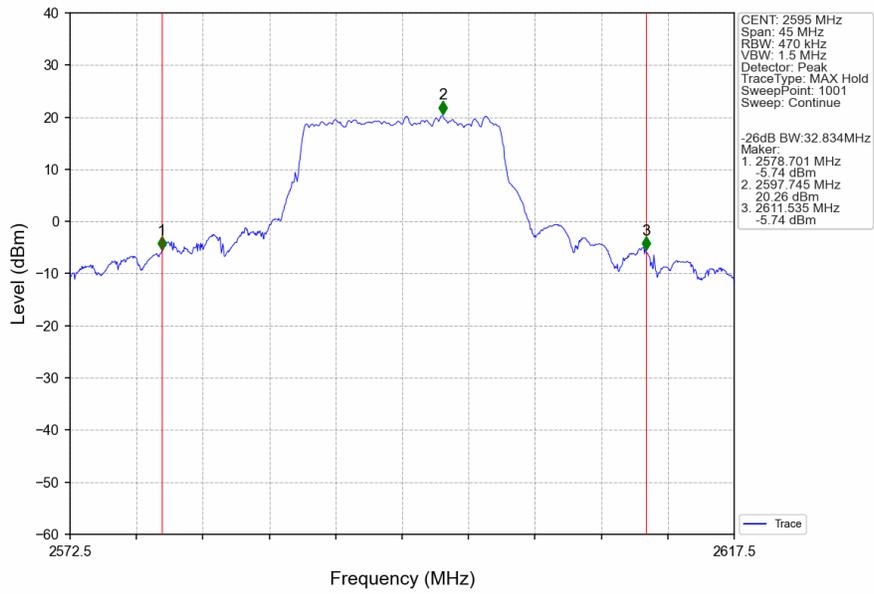
Band38_10MHz_QPSK_MCH_2595MHz_RB_50_0_NTNV



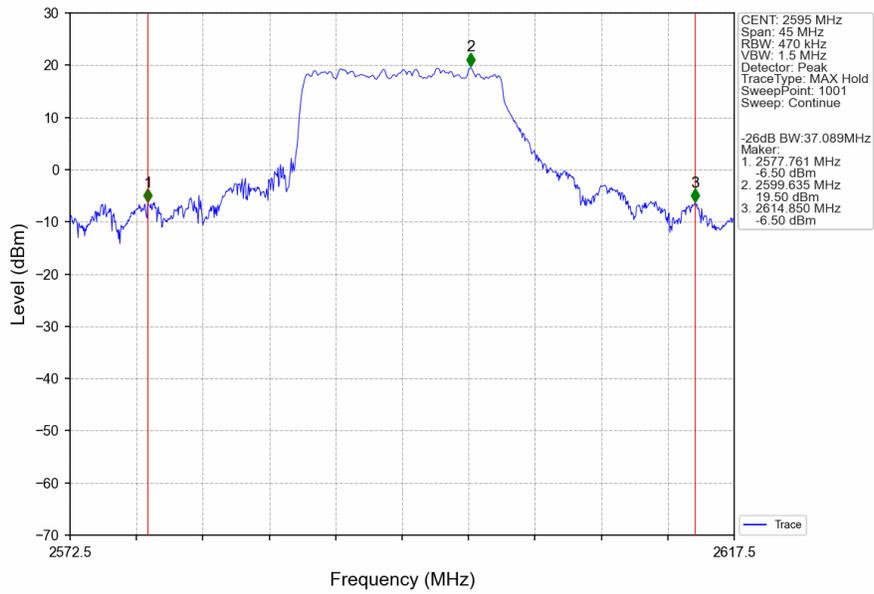
Band38_10MHz_16QAM_MCH_2595MHz_RB_50_0_NTNV



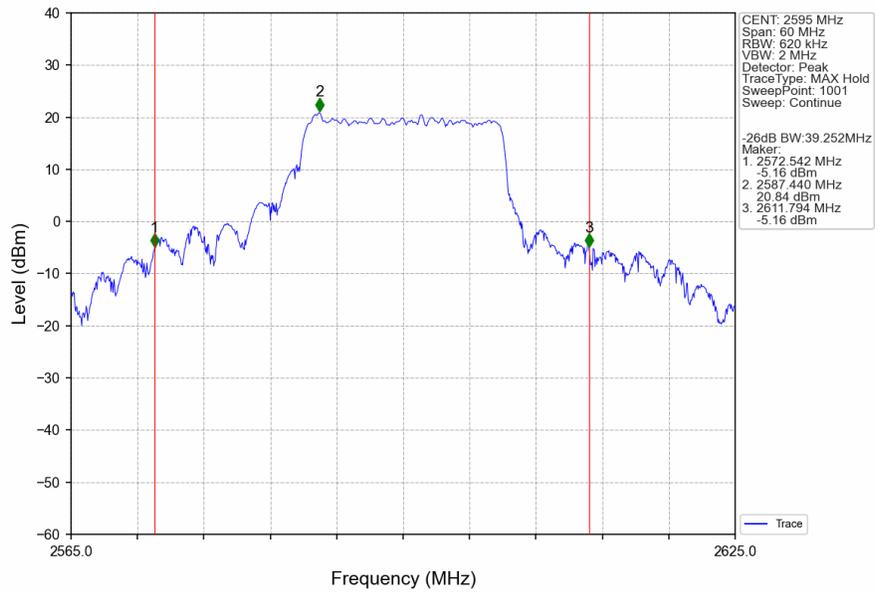
Band38_15MHz_QPSK_MCH_2595MHz_RB_75_0_NTNV



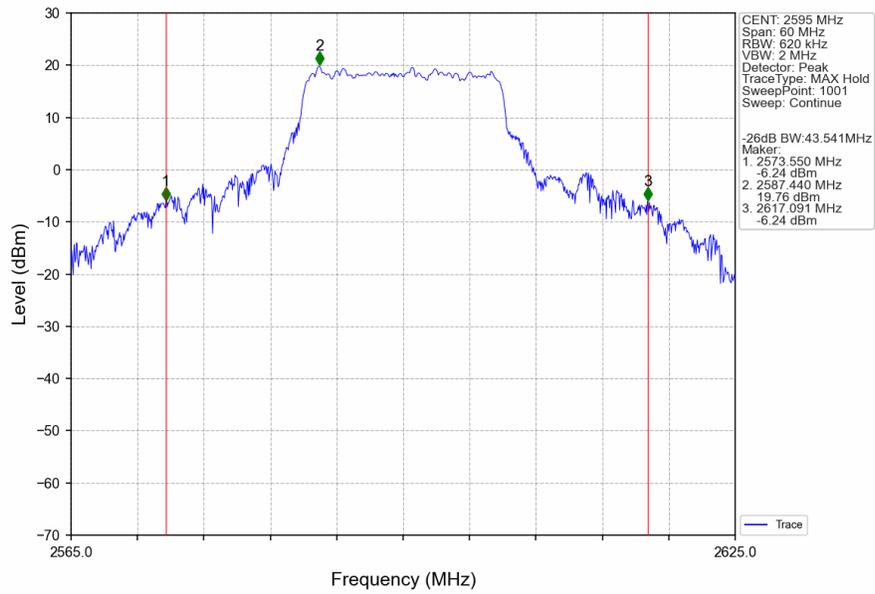
Band38_15MHz_16QAM_MCH_2595MHz_RB_75_0_NTNV



Band38_20MHz_QPSK_MCH_2595MHz_RB_100_0_NTNV



Band38_20MHz_16QAM_MCH_2595MHz_RB_100_0_NTNV



4. Peak-Average Ratio

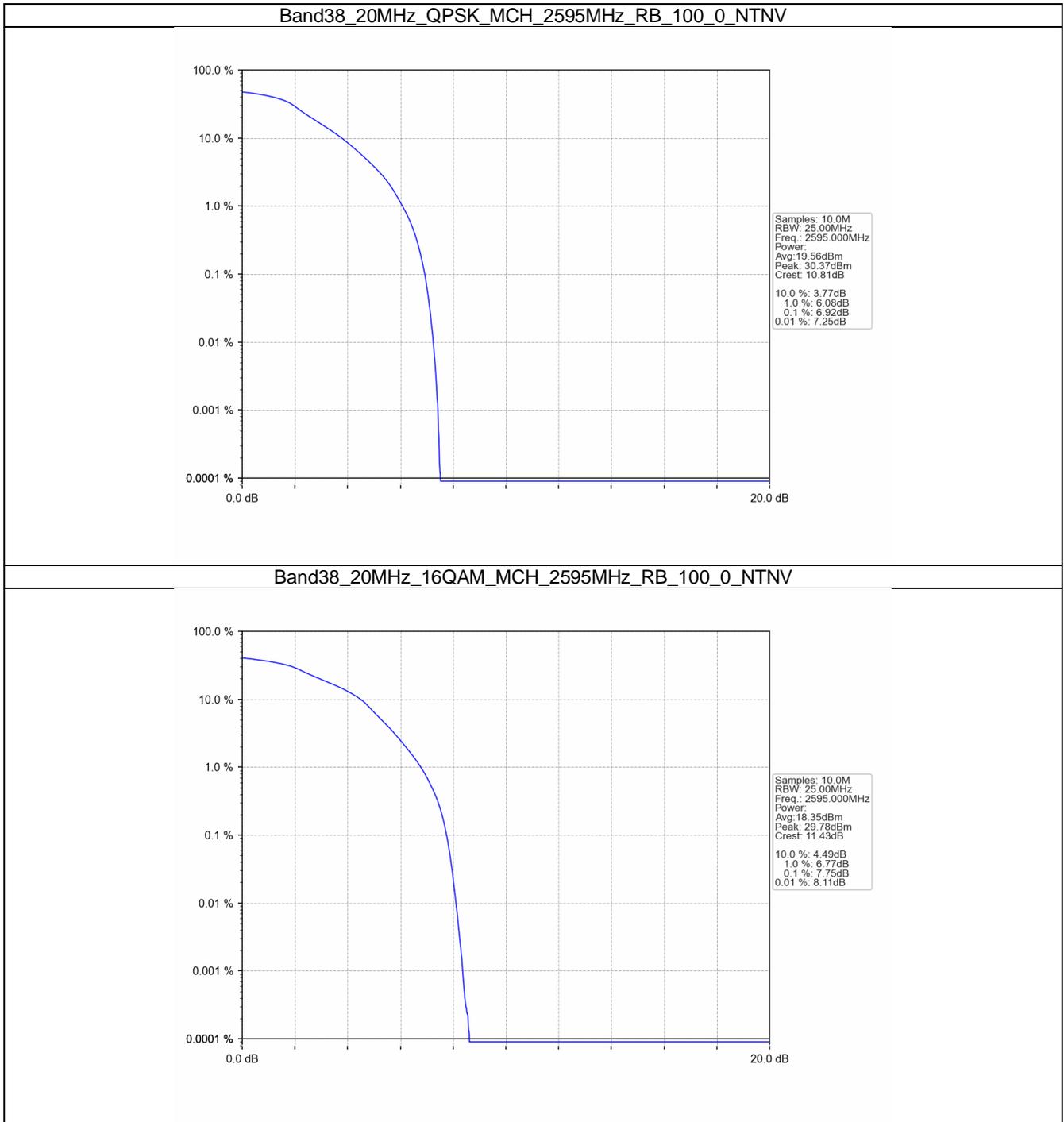
4.1 Test Result

4.1.1 B38_20MHz

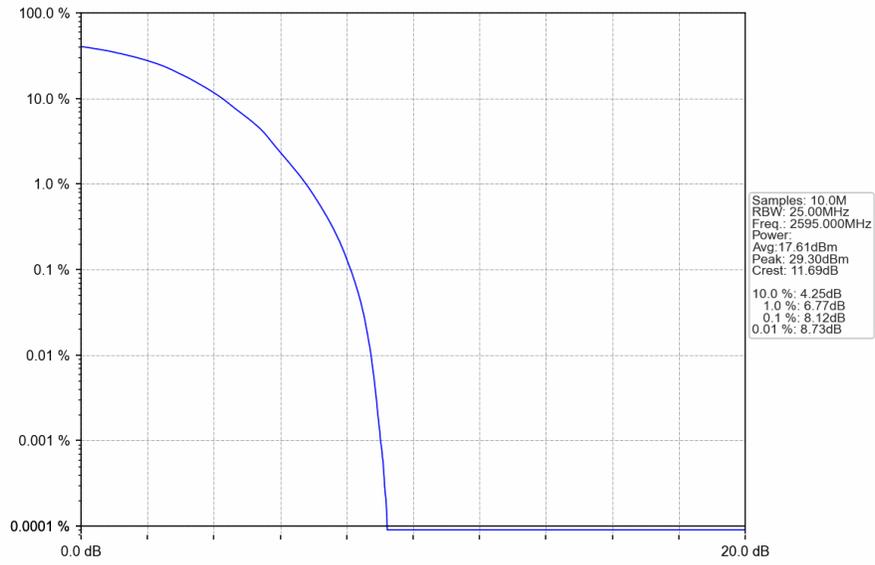
Band: 38 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2595	100	0	6.92	<=13	Pass
16QAM	2595	100	0	7.75	<=13	Pass
64QAM	2595	100	0	8.12	<=13	Pass
256QAM	2595	100	0	8.49	<=13	Pass

4.2 Test Graph

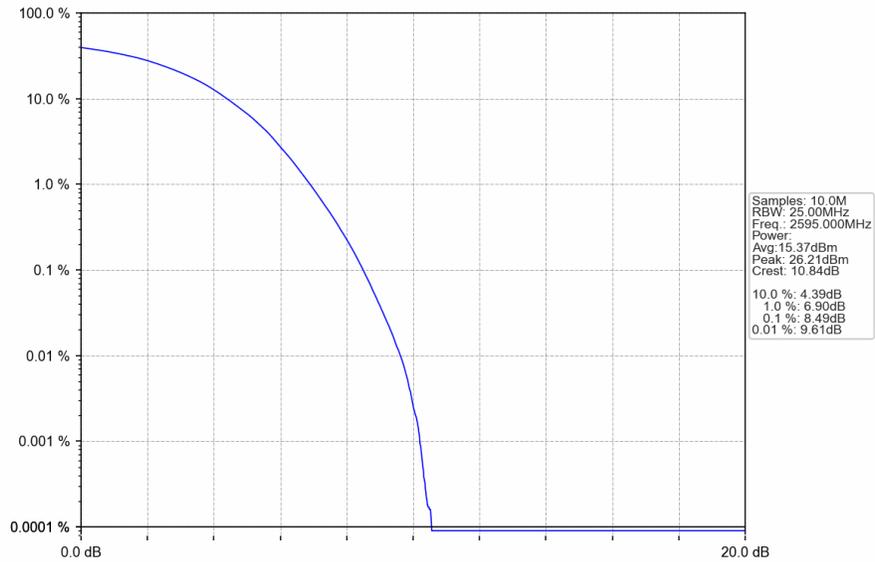
4.2.1 B38_20MHz



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 / NTV						
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

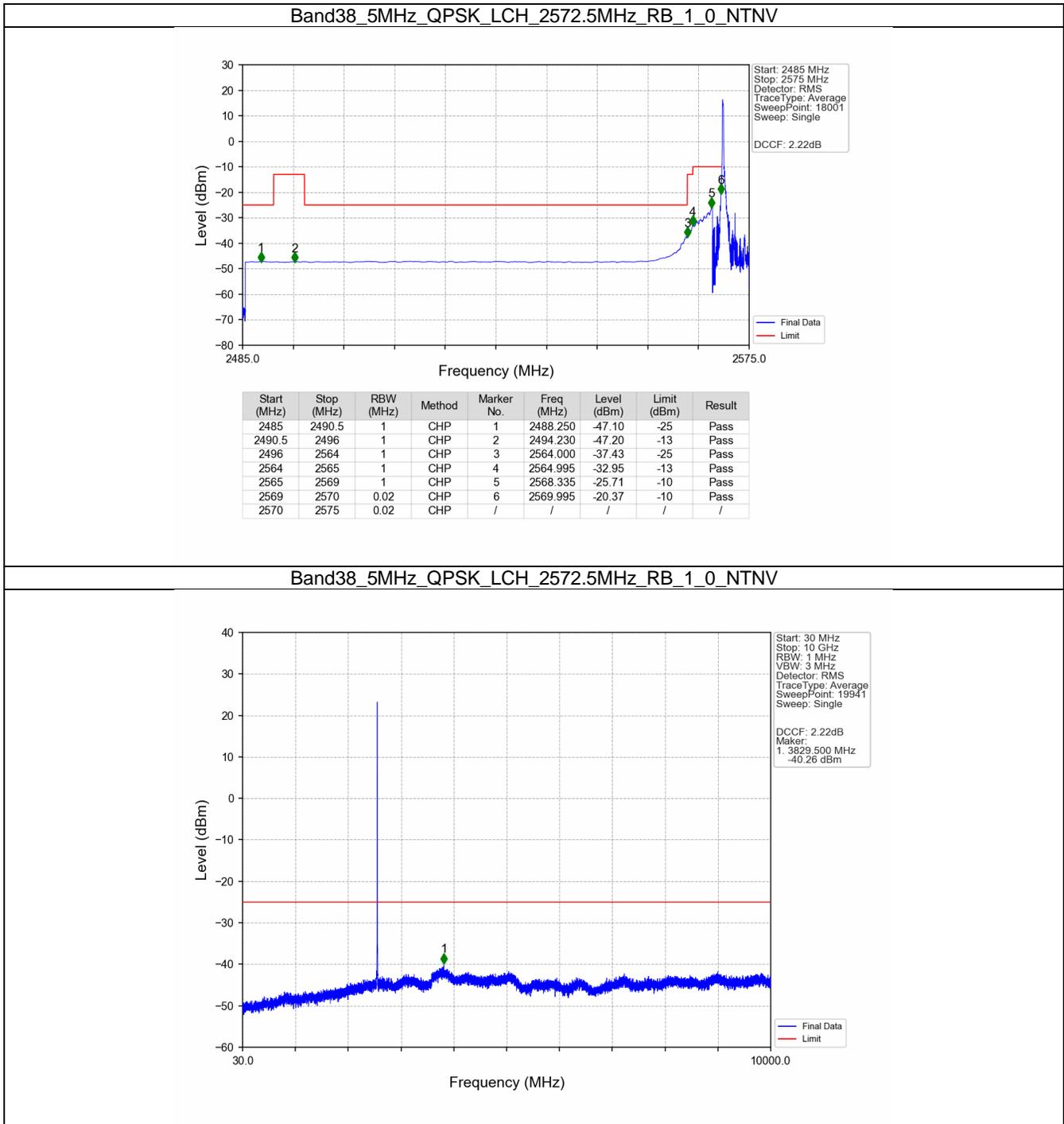
Band: 38 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2577.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2612.5	1	0	Refer To Test Graph		Pass
			74	Refer To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

5.1.4 B38_20MHz

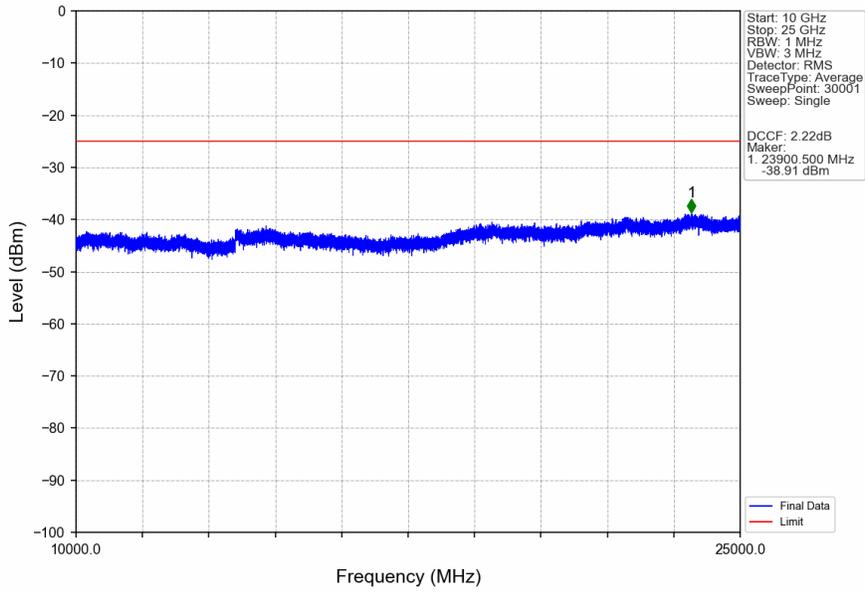
Band: 38 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2580	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2595	1	0	Refer To Test Graph		Pass
	2610	1	0	Refer To Test Graph		Pass
			99	Refer To Test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

5.2 Test Graph

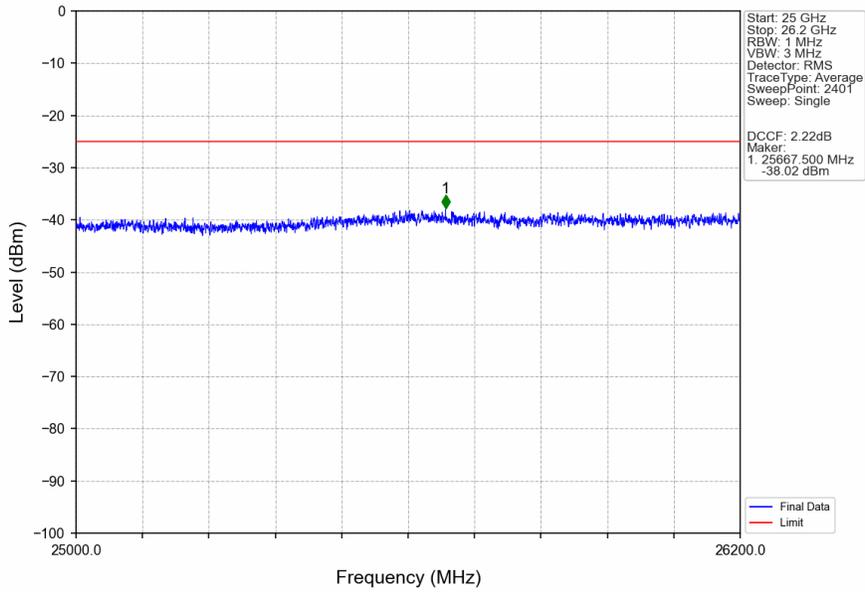
5.2.1 B38_5MHz



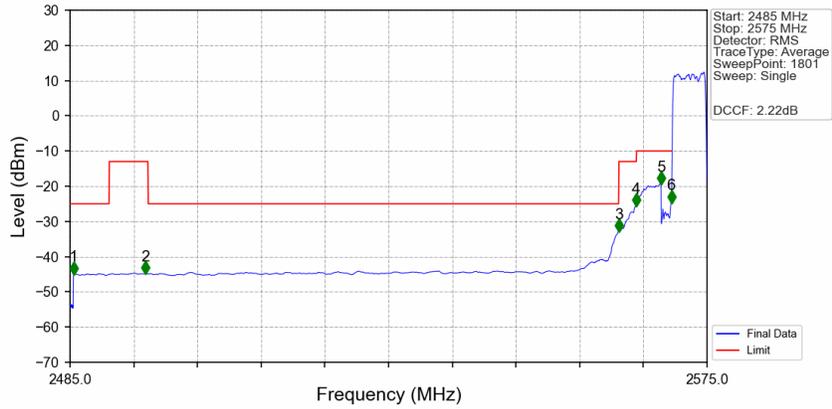
Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_LCH_2572.5MHz_RB_1_0_NTNV

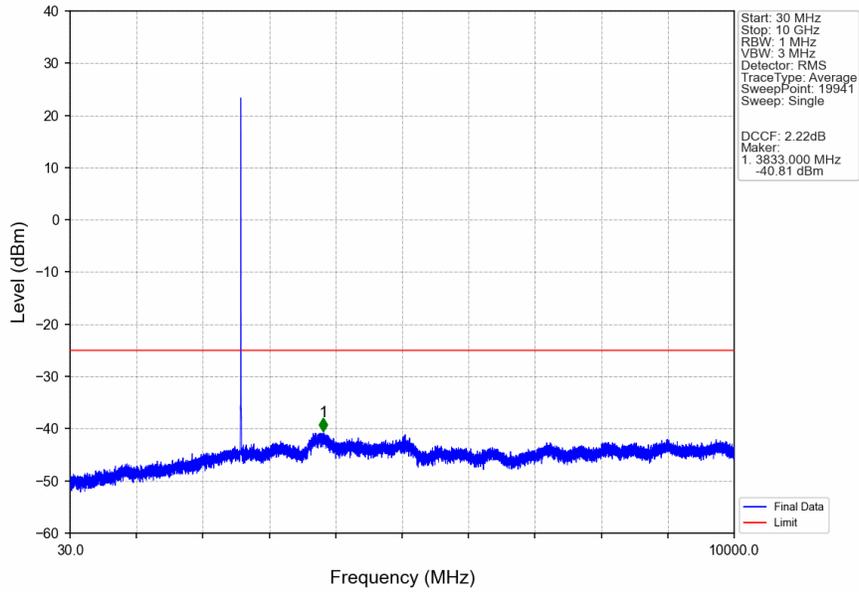


Band38_5MHz_QPSK_LCH_2572.5MHz_RB_25_0_NTNV

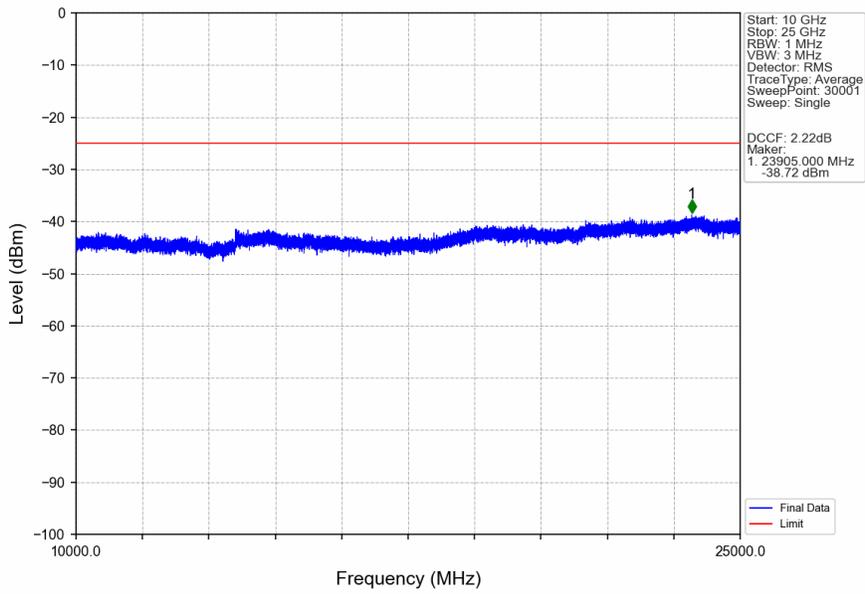


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2485.500	-44.77	-25	Pass
2490.5	2496	1	CHP	2	2495.650	-44.68	-13	Pass
2496	2562.542	1	CHP	3	2562.500	-32.75	-25	Pass
2562.542	2565	1	CHP	4	2564.950	-25.48	-13	Pass
2565	2569	1	CHP	5	2568.500	-19.23	-10	Pass
2569	2570	0.149	CHP	6	2569.950	-24.48	-10	Pass
2570	2575	0.149	CHP	/	/	/	/	/

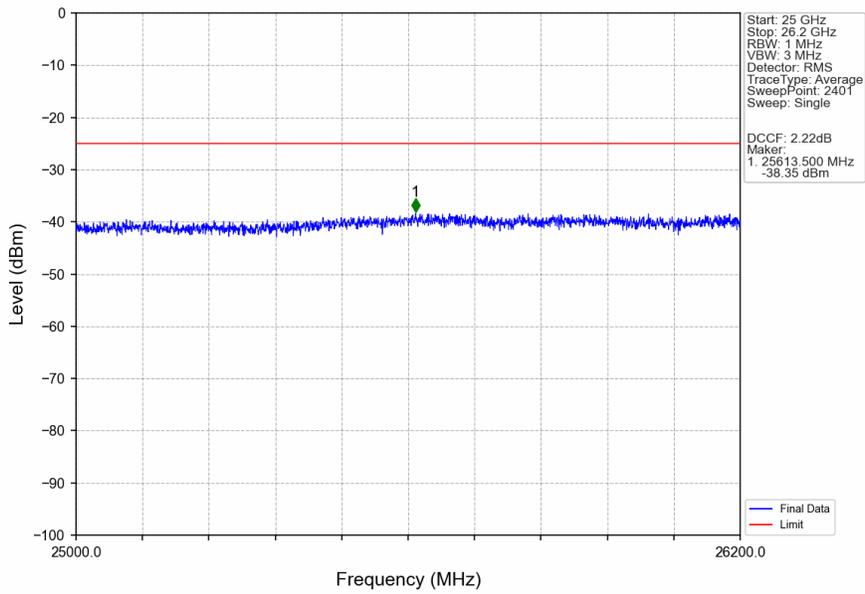
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



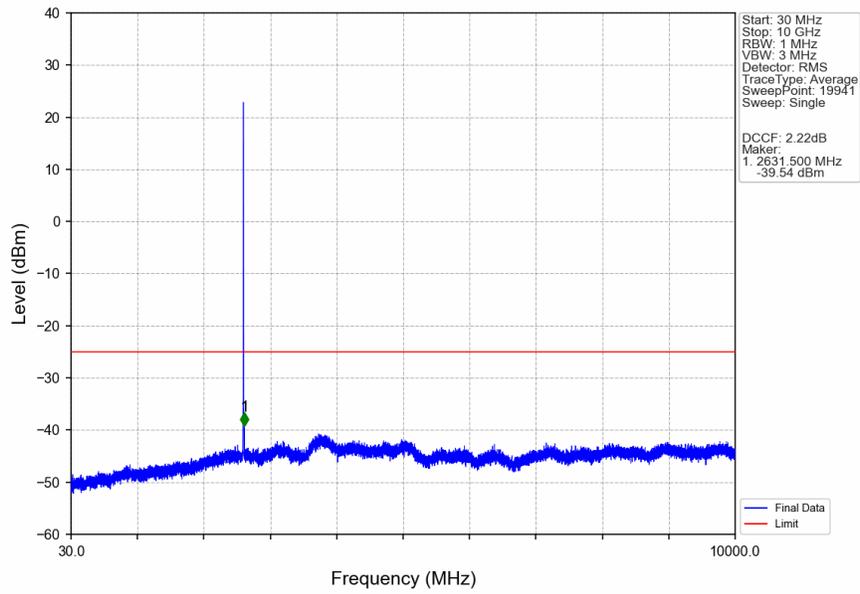
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



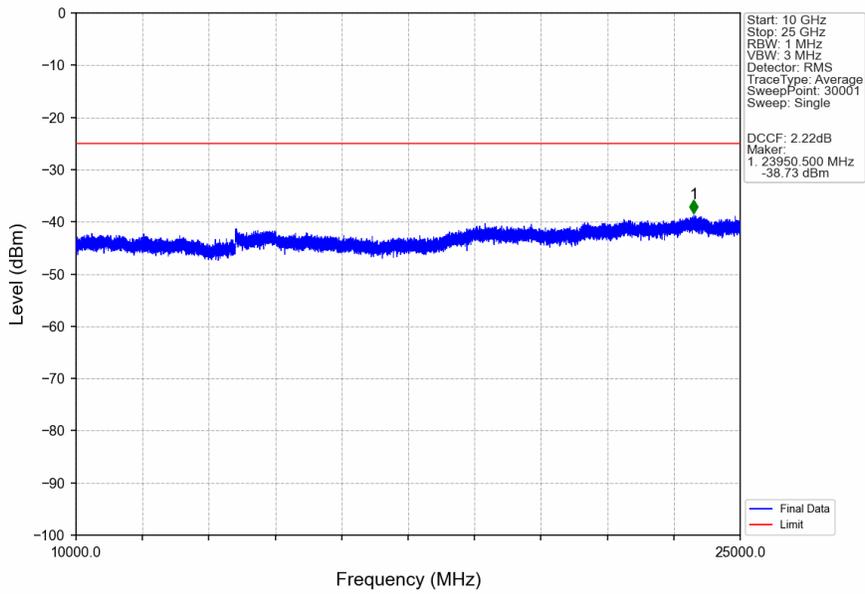
Band38_5MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



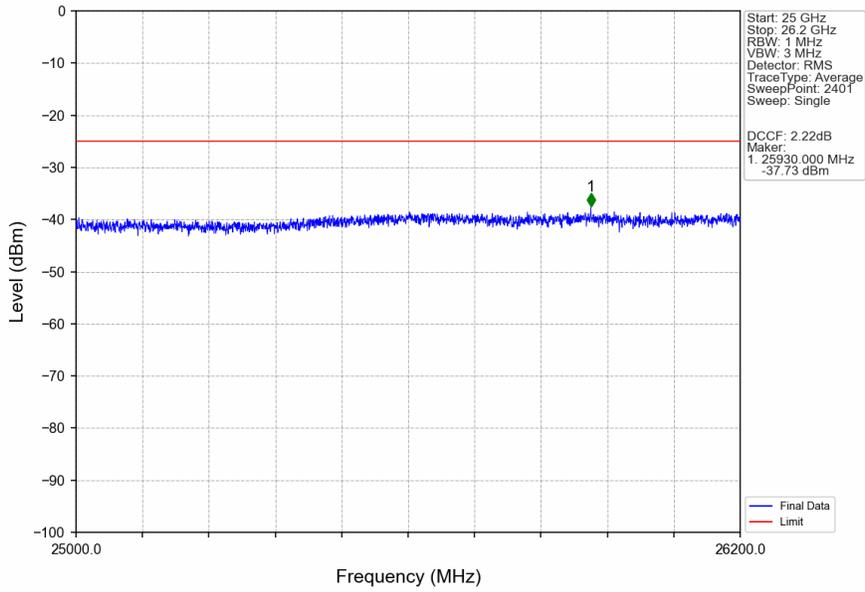
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



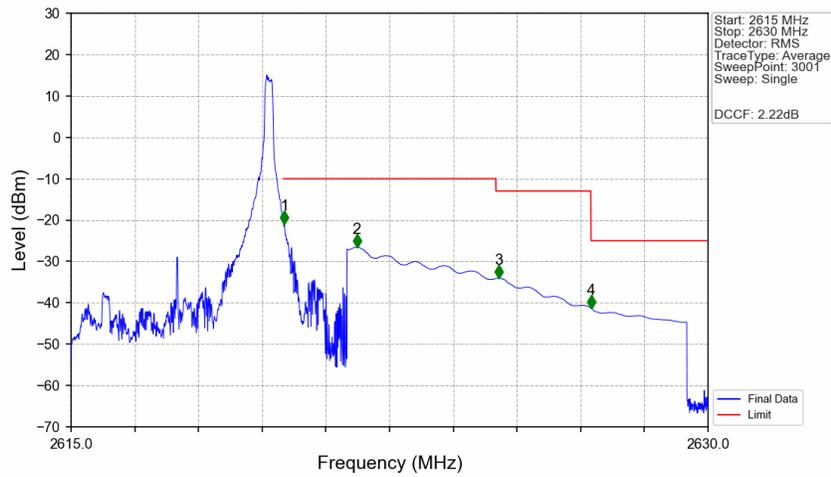
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV



Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_0_NTNV

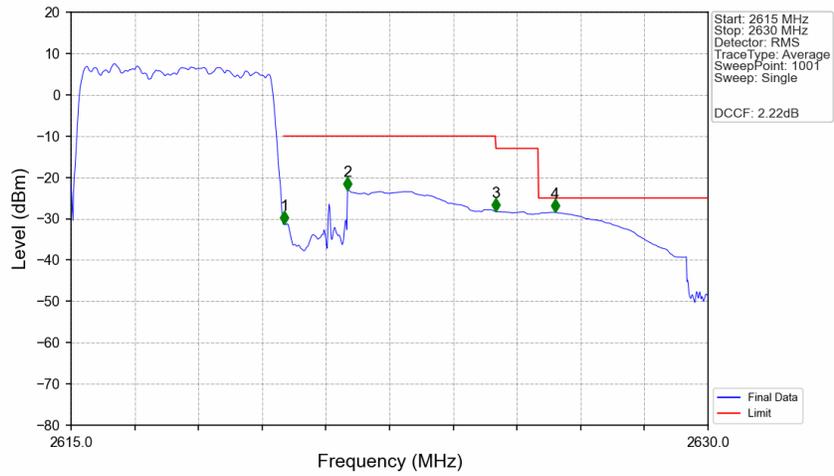


Band38_5MHz_QPSK_HCH_2617.5MHz_RB_1_24_NTNV



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	2620.020	-21.01	-10	Pass
2621	2625	1	CHP	2	2621.730	-26.55	-10	Pass
2625	2627.24	1	CHP	3	2625.065	-34.06	-13	Pass
2627.24	2630	1	CHP	4	2627.245	-41.33	-25	Pass

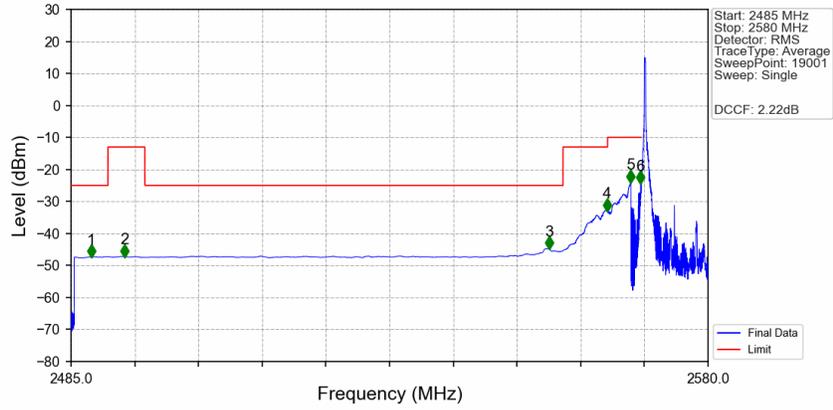
Band38_5MHz_QPSK_HCH_2617.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2615	2620	0.108	CHP	/	/	/	/	/
2620	2621	0.108	CHP	1	2620.025	-31.24	-10	Pass
2621	2625	1	CHP	2	2621.510	-23.11	-10	Pass
2625	2626	1	CHP	3	2625.005	-28.28	-13	Pass
2626	2630	1	CHP	4	2626.400	-28.45	-25	Pass

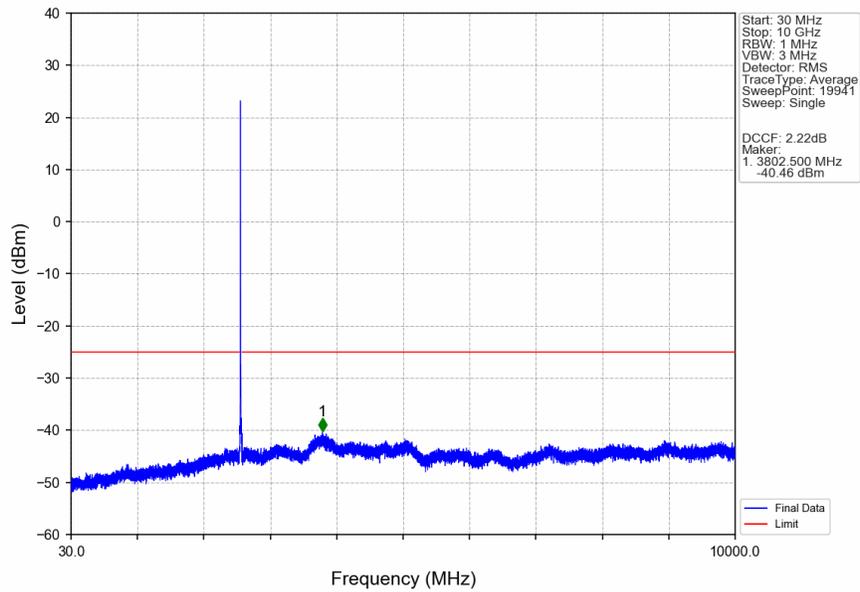
5.2.2 B38_10MHz

Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

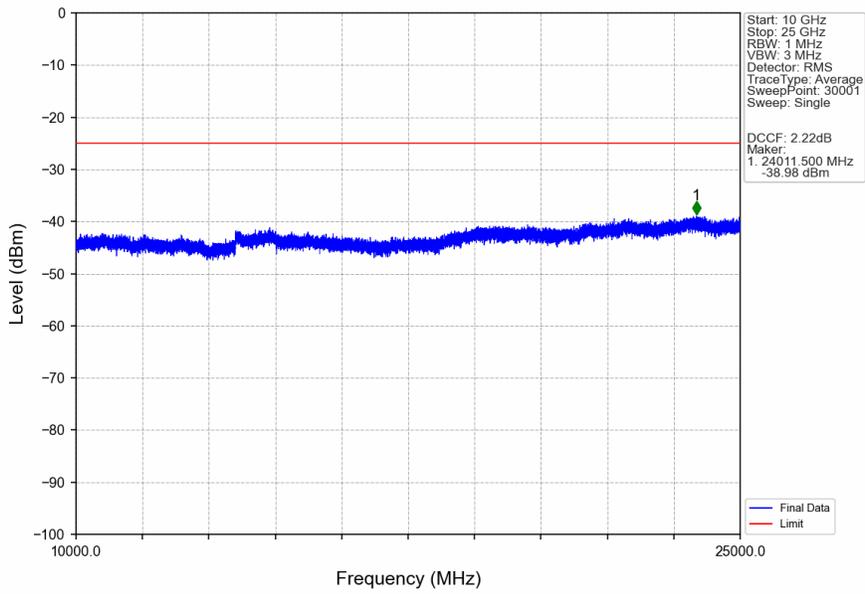


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2488.025	-47.20	-25	Pass
2490.5	2496	1	CHP	2	2492.965	-47.14	-13	Pass
2496	2558.366	1	CHP	3	2556.315	-44.69	-25	Pass
2558.366	2565	1	CHP	4	2564.905	-32.74	-13	Pass
2565	2569	1	CHP	5	2568.470	-23.82	-10	Pass
2569	2570	0.02	CHP	6	2569.940	-24.12	-10	Pass
2570	2580	0.02	CHP	/	/	/	/	/

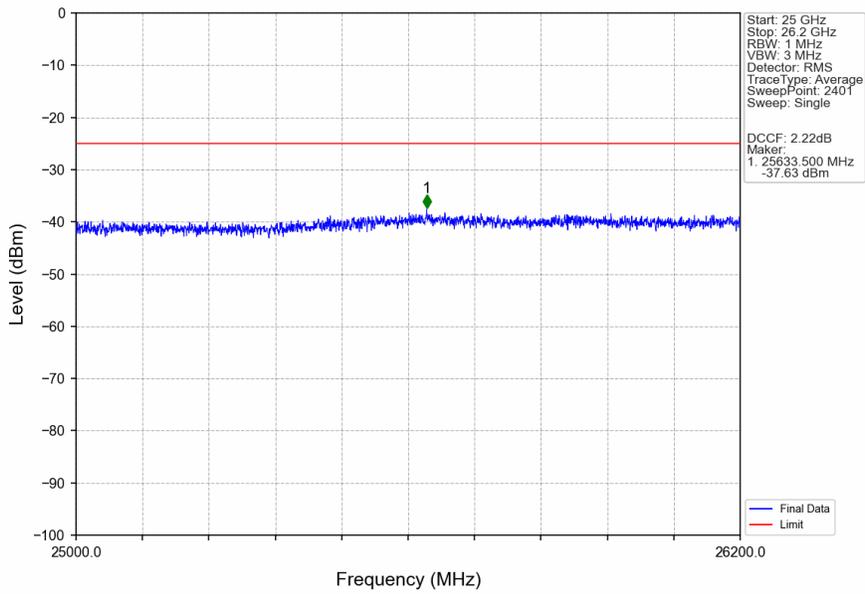
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



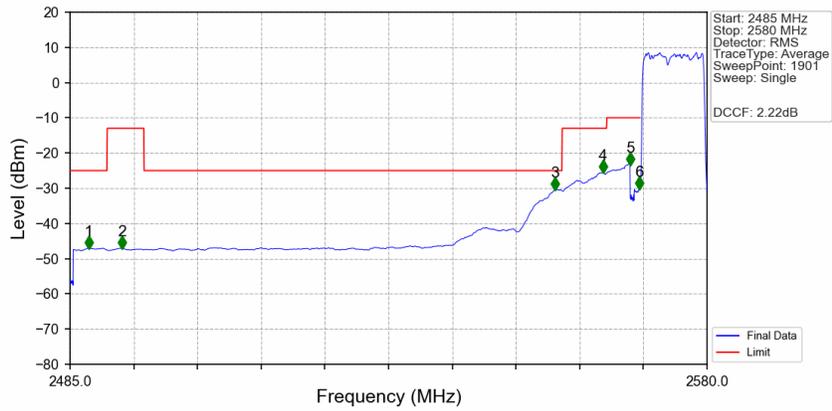
Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_LCH_2575MHz_RB_1_0_NTNV

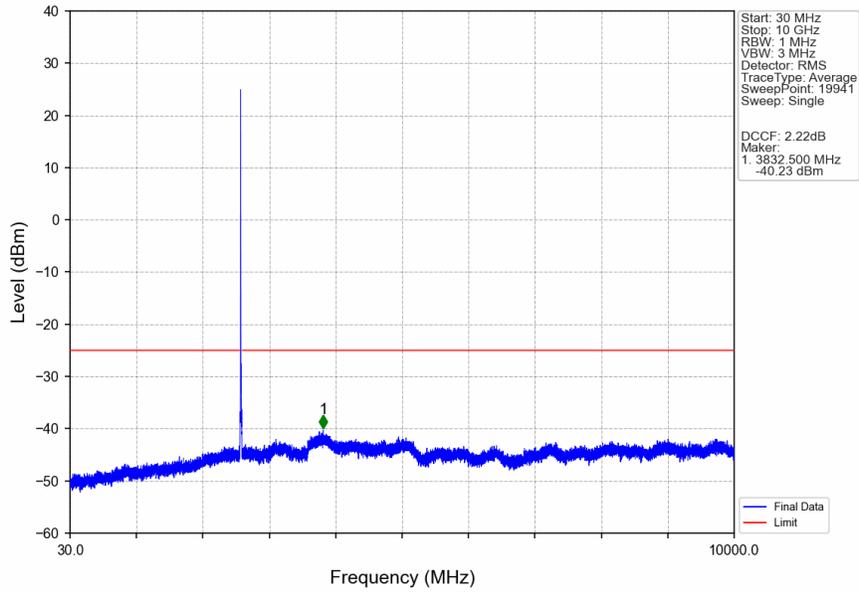


Band38_10MHz_QPSK_LCH_2575MHz_RB_50_0_NTNV

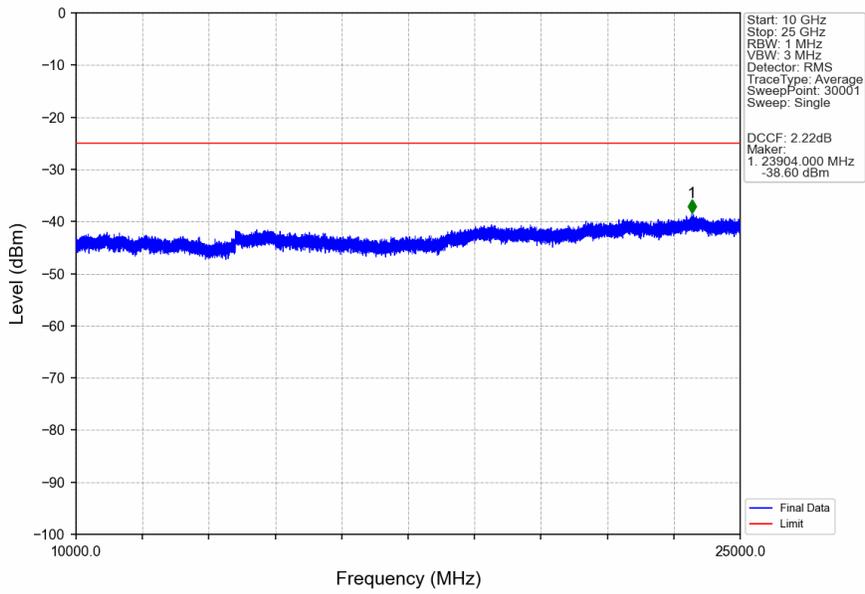


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2487.800	-47.01	-25	Pass
2490.5	2496	1	CHP	2	2492.800	-46.99	-13	Pass
2496	2558.366	1	CHP	3	2557.350	-30.37	-25	Pass
2558.366	2565	1	CHP	4	2564.450	-25.42	-13	Pass
2565	2569	1	CHP	5	2568.500	-23.21	-10	Pass
2569	2570	0.233	CHP	6	2569.850	-30.06	-10	Pass
2570	2580	0.233	CHP	/	/	/	/	/

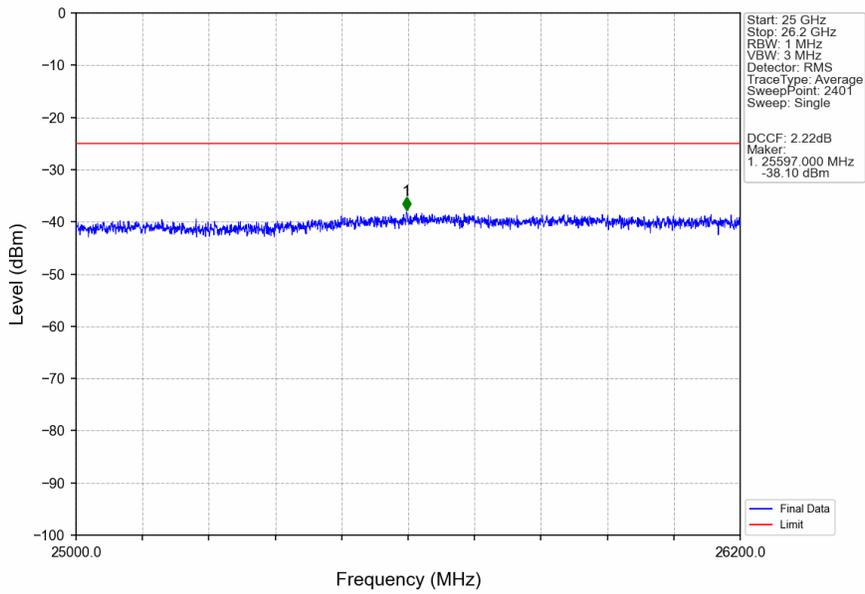
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



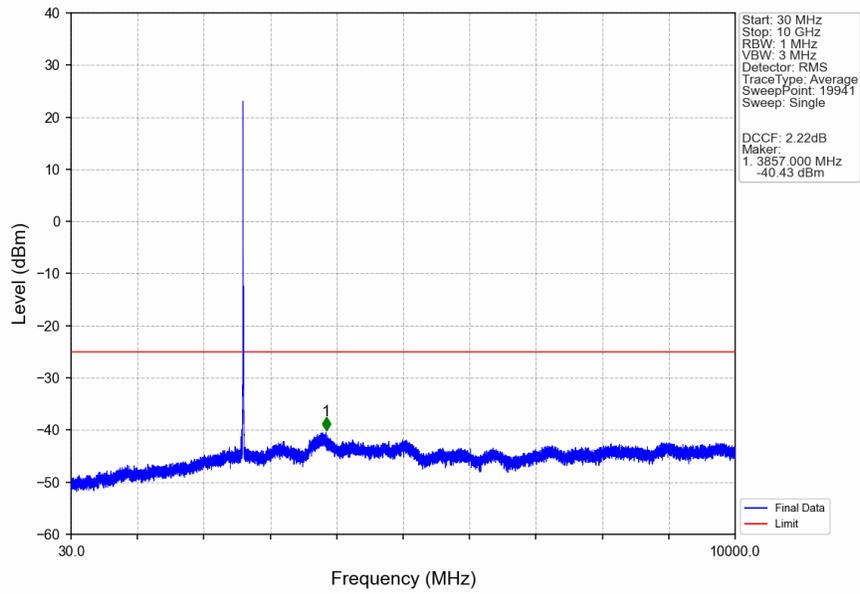
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



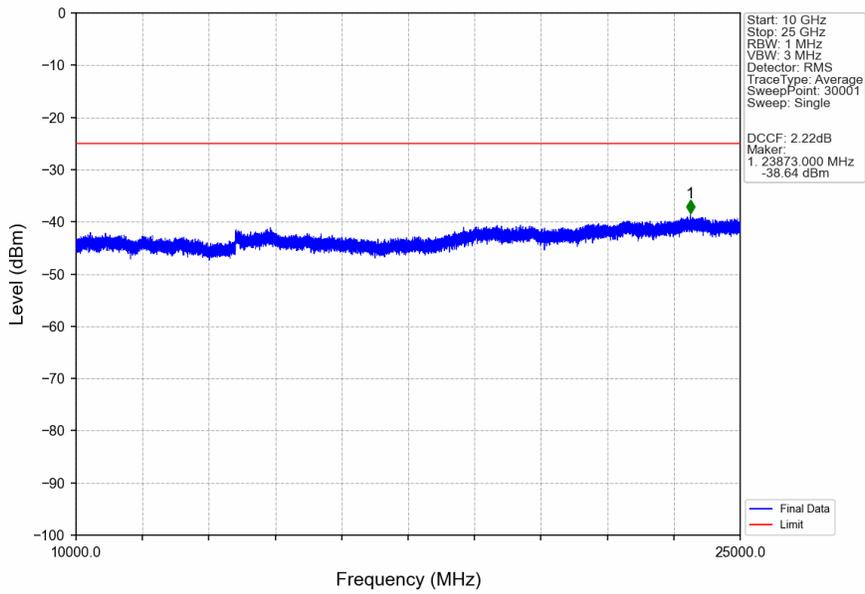
Band38_10MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



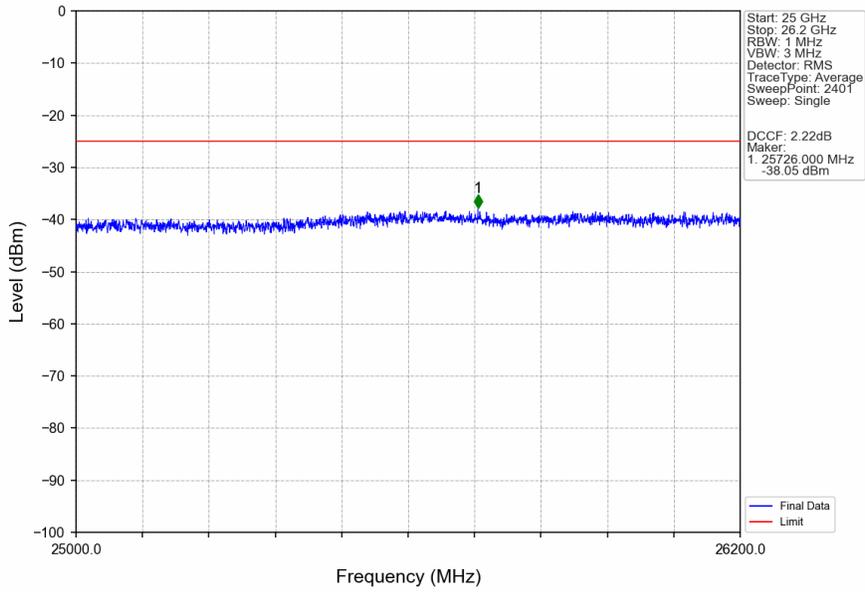
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



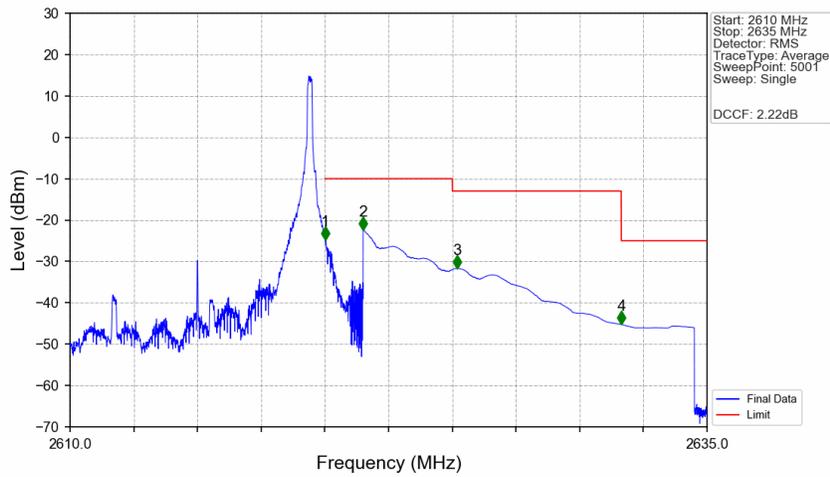
Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV



Band38_10MHz_QPSK_HCH_2615MHz_RB_1_0_NTNV

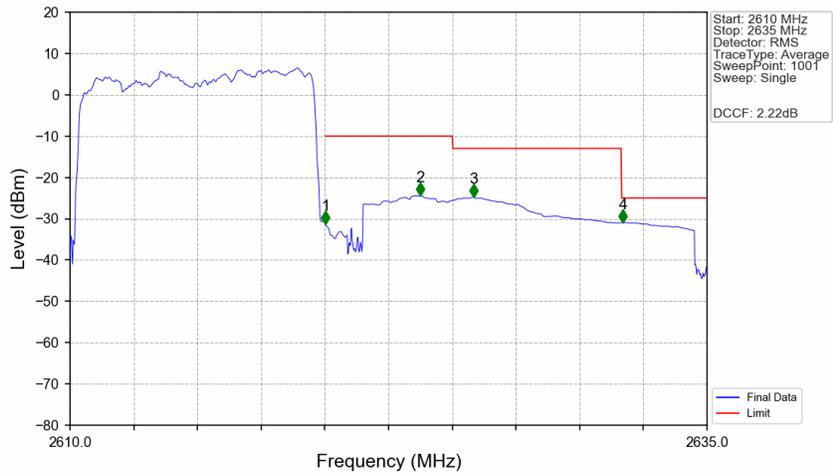


Band38_10MHz_QPSK_HCH_2615MHz_RB_1_49_NTNV



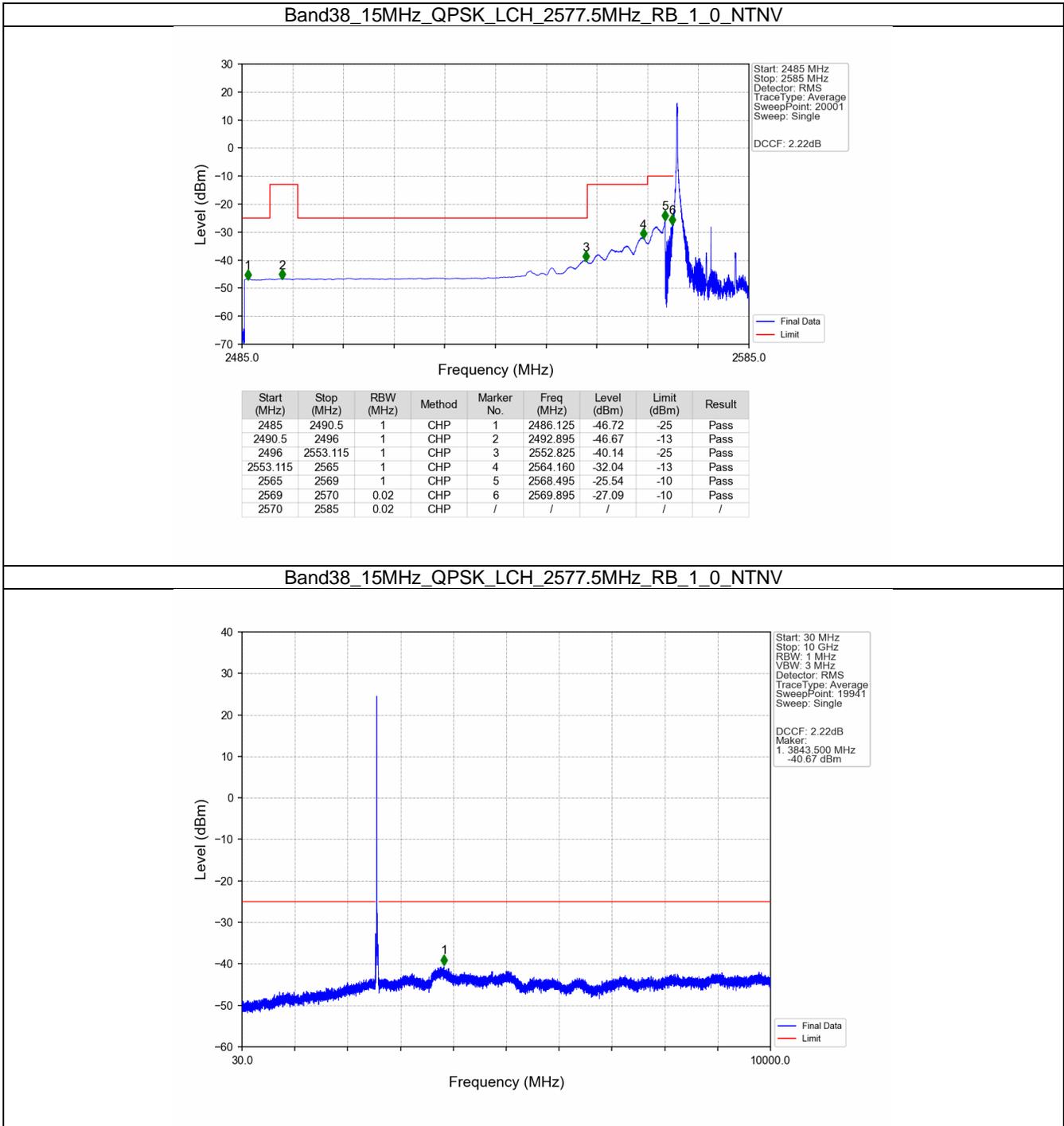
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.02	CHP	/	/	/	/	/
2620	2621	0.02	CHP	1	2620.005	-24.77	-10	Pass
2621	2625	1	CHP	2	2621.500	-22.35	-10	Pass
2625	2631.634	1	CHP	3	2625.185	-31.68	-13	Pass
2631.634	2635	1	CHP	4	2631.635	-45.22	-25	Pass

Band38_10MHz_QPSK_HCH_2615MHz_RB_50_0_NTNV

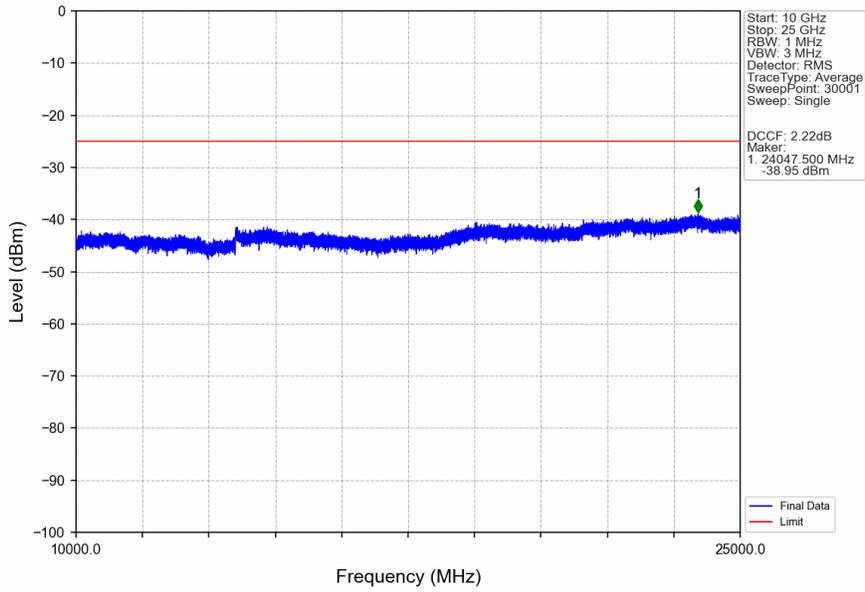


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2610	2620	0.233	CHP	/	/	/	/	/
2620	2621	0.233	CHP	1	2620.025	-31.35	-10	Pass
2621	2625	1	CHP	2	2623.750	-24.47	-10	Pass
2625	2631.634	1	CHP	3	2625.825	-24.80	-13	Pass
2631.634	2635	1	CHP	4	2631.700	-30.94	-25	Pass

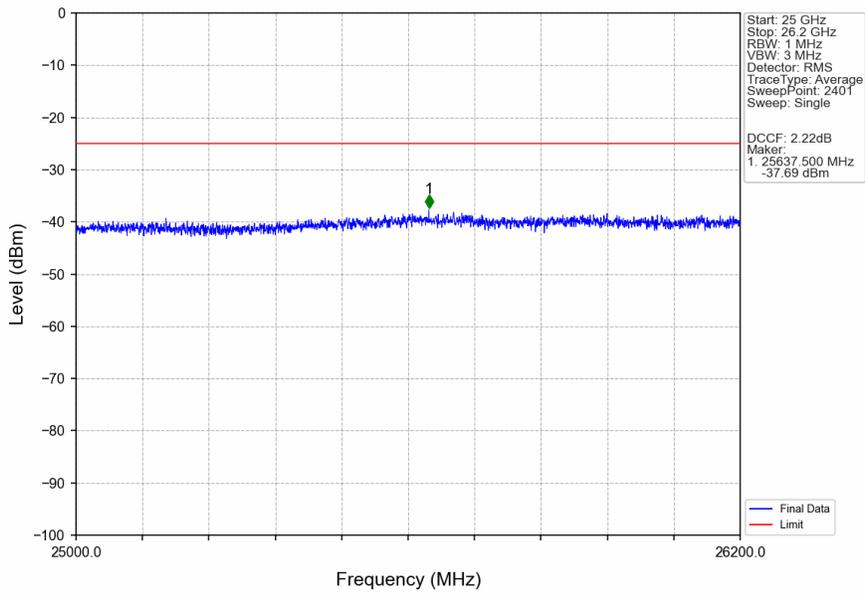
5.2.3 B38_15MHz



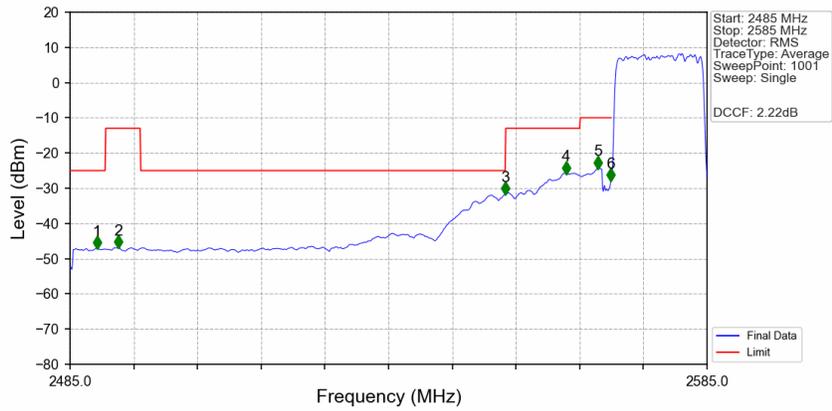
Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_LCH_2577.5MHz_RB_1_0_NTNV

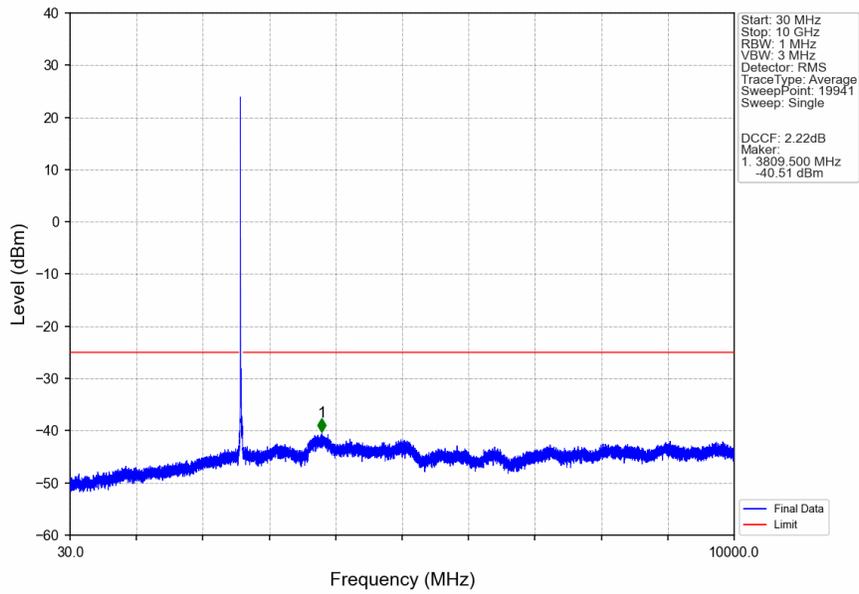


Band38_15MHz_QPSK_LCH_2577.5MHz_RB_75_0_NTNV

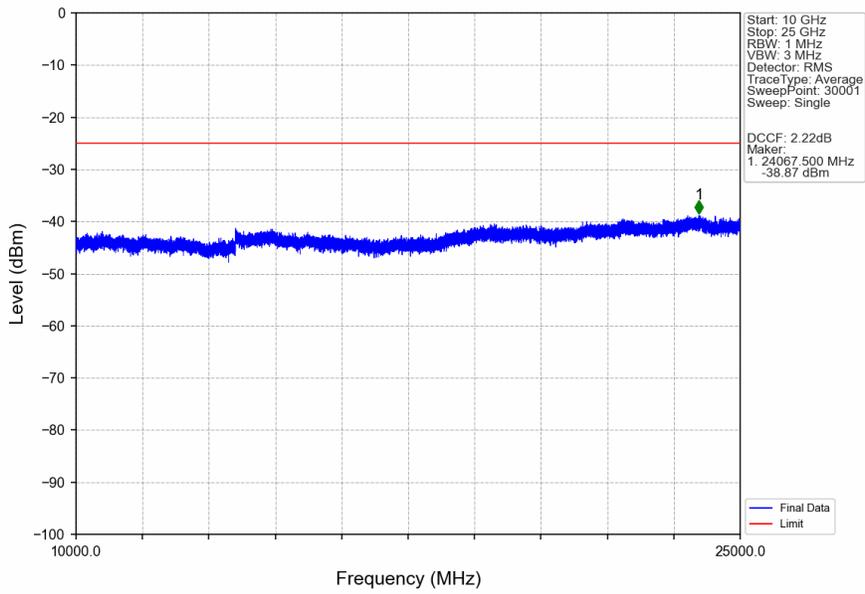


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.200	-47.05	-25	Pass
2490.5	2496	1	CHP	2	2492.600	-46.78	-13	Pass
2496	2553.336	1	CHP	3	2553.300	-31.62	-25	Pass
2553.336	2565	1	CHP	4	2562.900	-25.73	-13	Pass
2565	2569	1	CHP	5	2567.900	-24.24	-10	Pass
2569	2570	0.333	CHP	6	2569.900	-27.83	-10	Pass
2570	2585	0.333	CHP	/	/	/	/	/

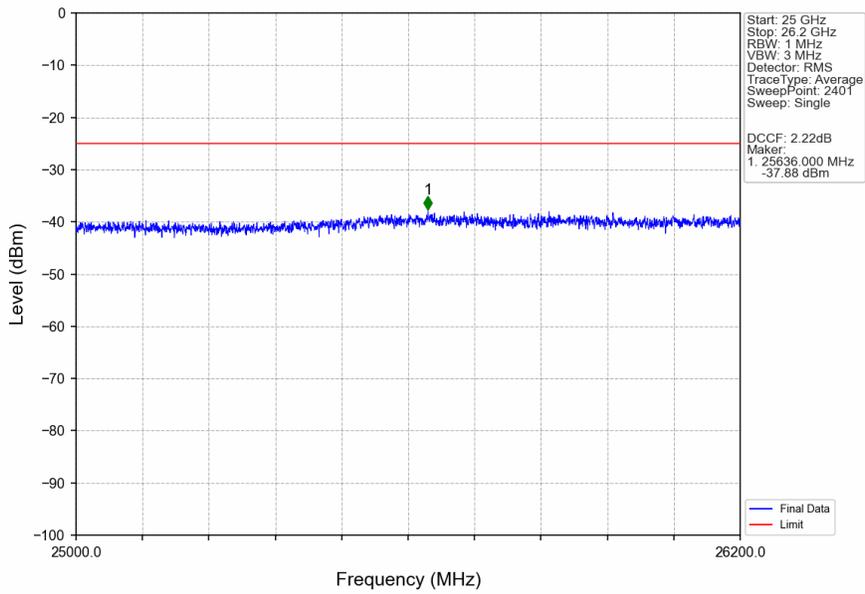
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



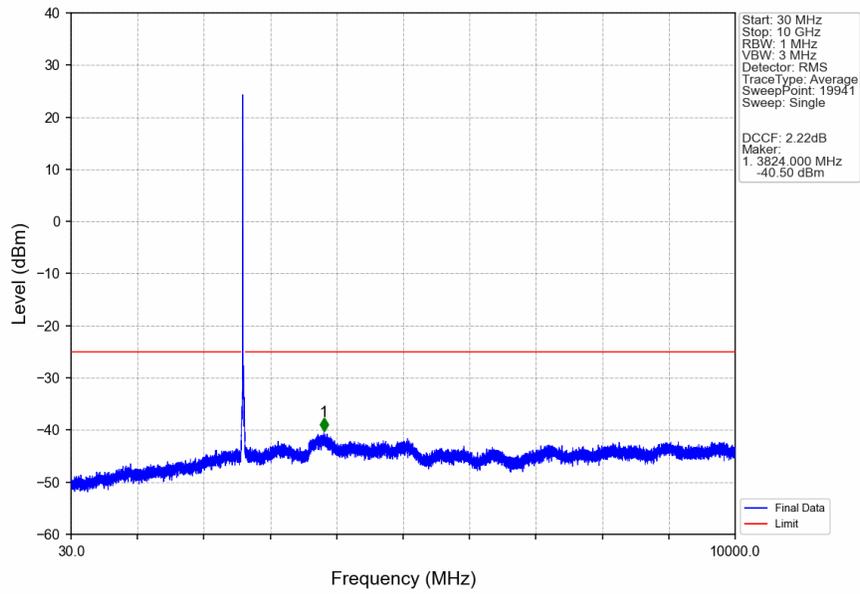
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



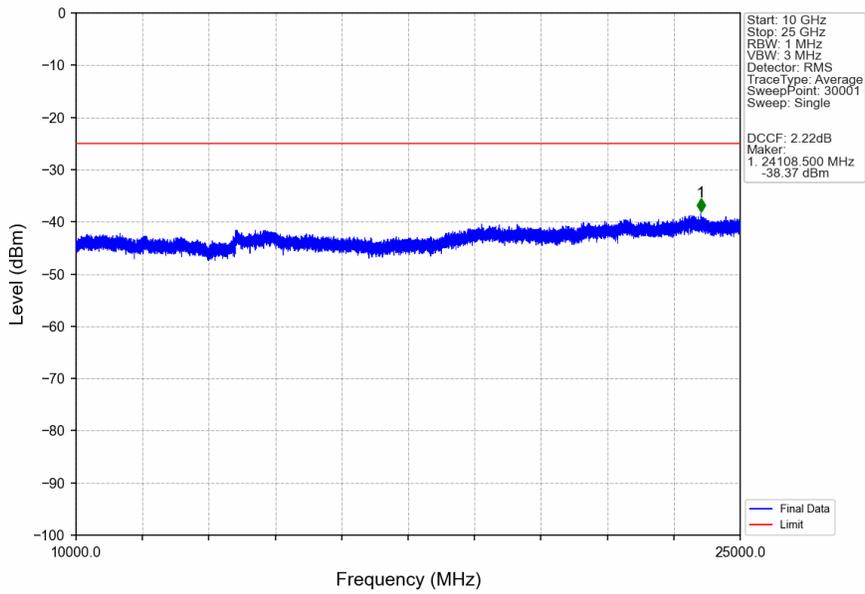
Band38_15MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



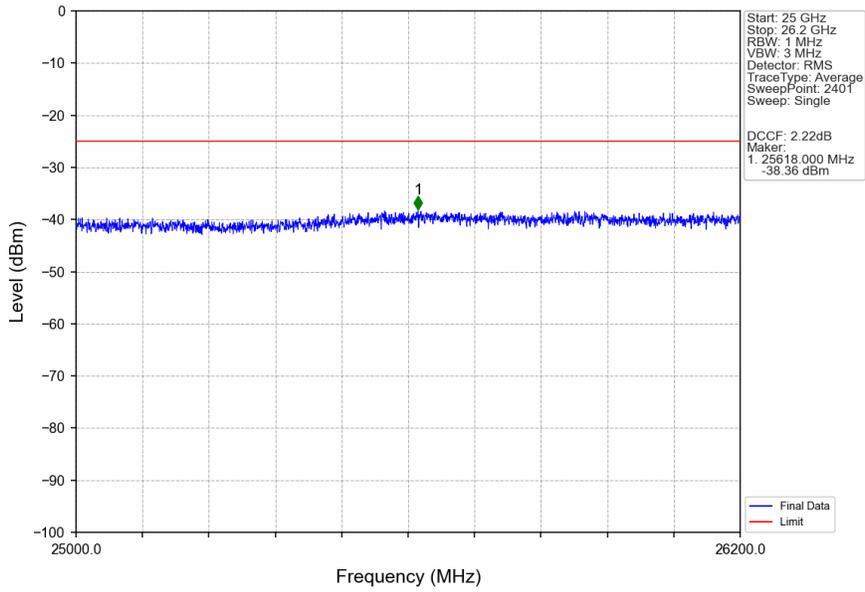
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



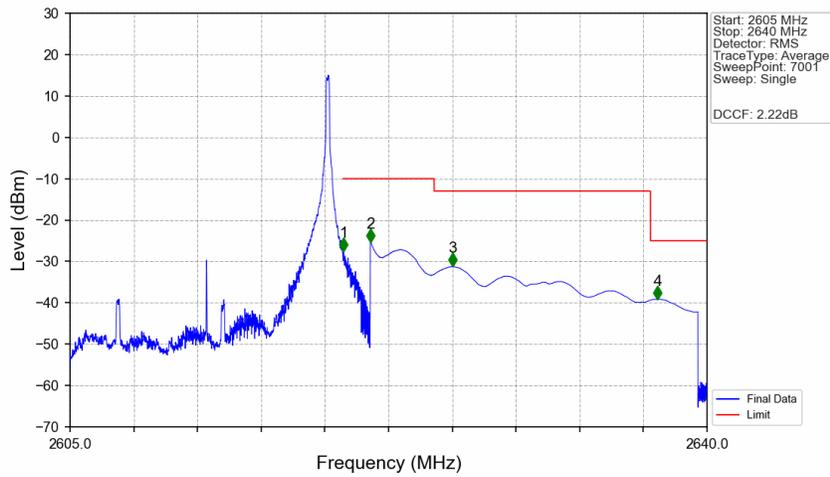
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV



Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_0_NTNV

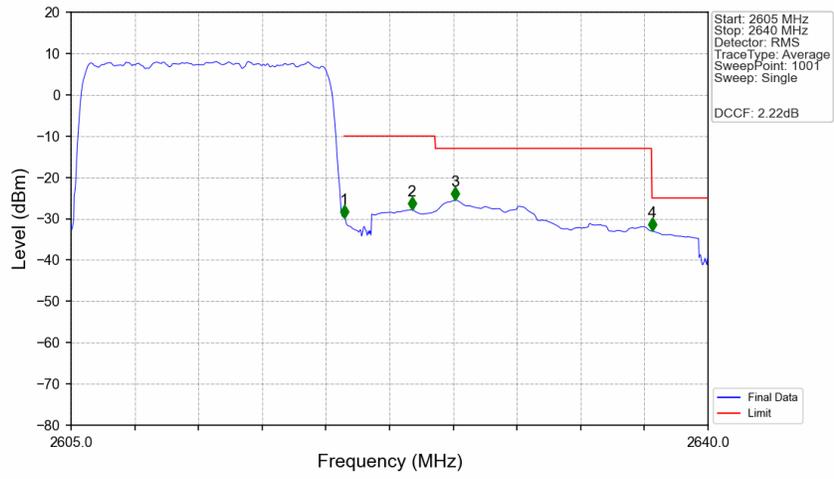


Band38_15MHz_QPSK_HCH_2612.5MHz_RB_1_74_NTNV



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	2620.035	-27.47	-10	Pass
2621	2625	1	CHP	2	2621.500	-25.25	-10	Pass
2625	2636.885	1	CHP	3	2626.025	-31.23	-13	Pass
2636.885	2640	1	CHP	4	2637.290	-39.10	-25	Pass

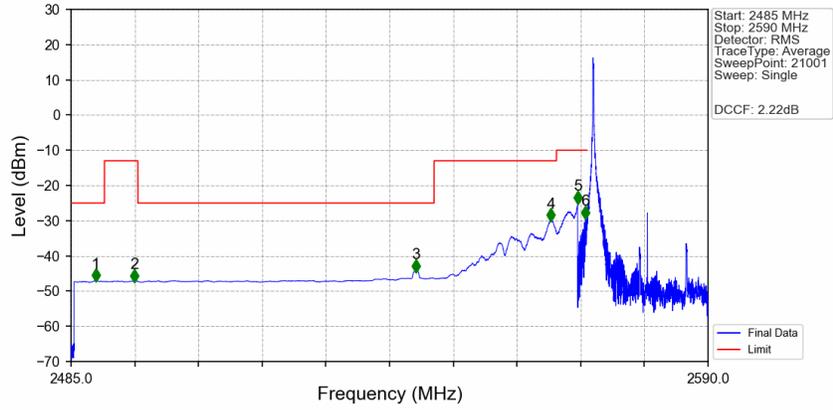
Band38_15MHz_QPSK_HCH_2612.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2605	2620	0.338	CHP	/	/	/	/	/
2620	2621	0.338	CHP	1	2620.015	-29.86	-10	Pass
2621	2625	1	CHP	2	2623.725	-27.79	-10	Pass
2625	2636.885	1	CHP	3	2626.105	-25.47	-13	Pass
2636.885	2640	1	CHP	4	2636.920	-33.01	-25	Pass

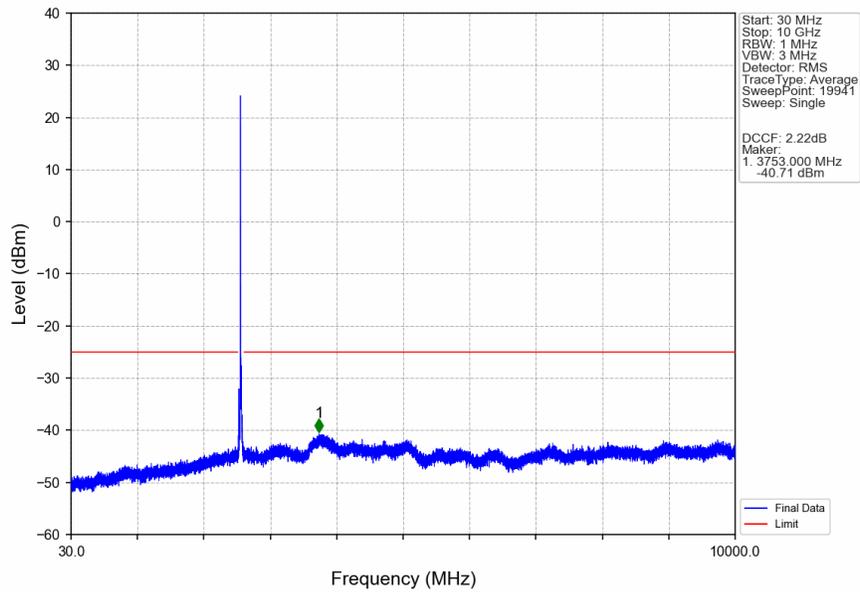
5.2.4 B38_20MHz

Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

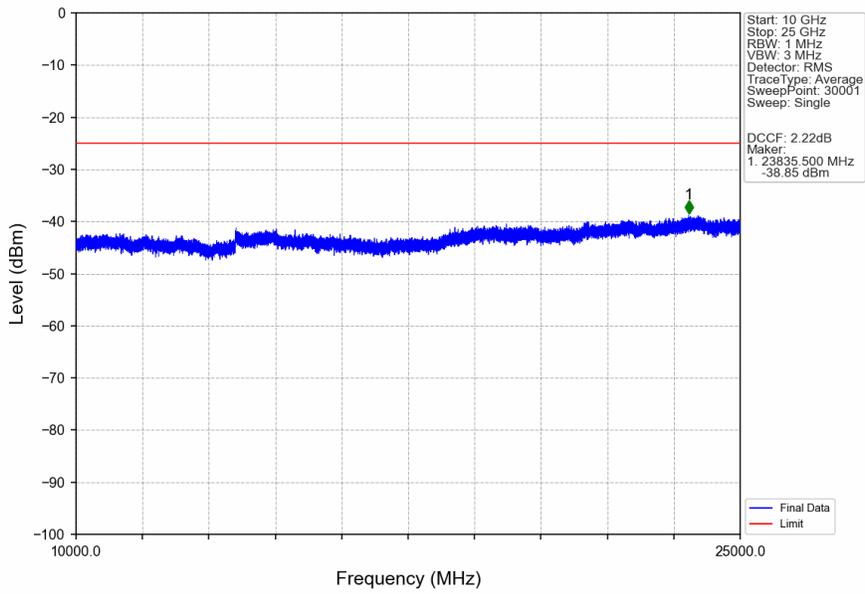


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.100	-47.06	-25	Pass
2490.5	2496	1	CHP	2	2495.450	-47.12	-13	Pass
2496	2544.833	1	CHP	3	2541.830	-44.38	-25	Pass
2544.833	2565	1	CHP	4	2564.100	-29.90	-13	Pass
2565	2569	1	CHP	5	2568.500	-24.94	-10	Pass
2569	2570	0.02	CHP	6	2569.795	-29.22	-10	Pass
2570	2590	0.02	CHP	/	/	/	/	/

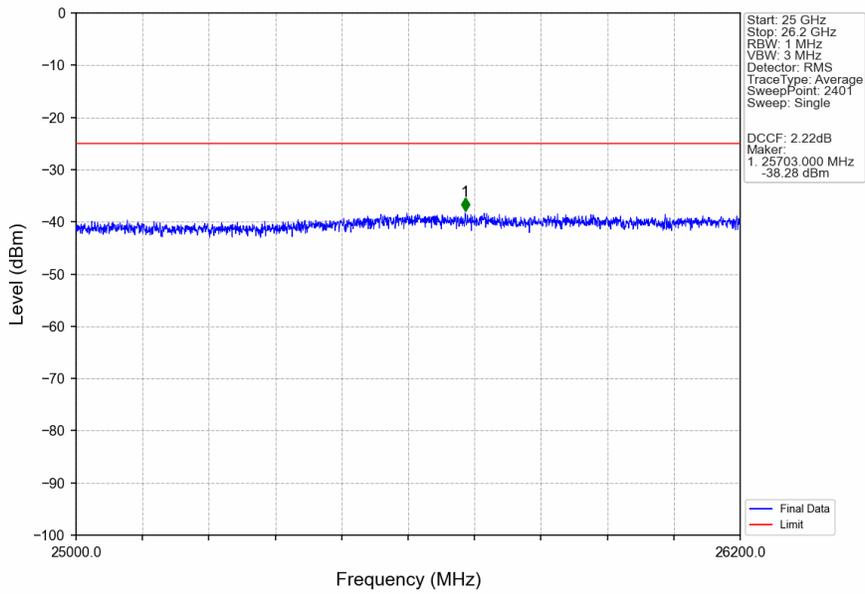
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



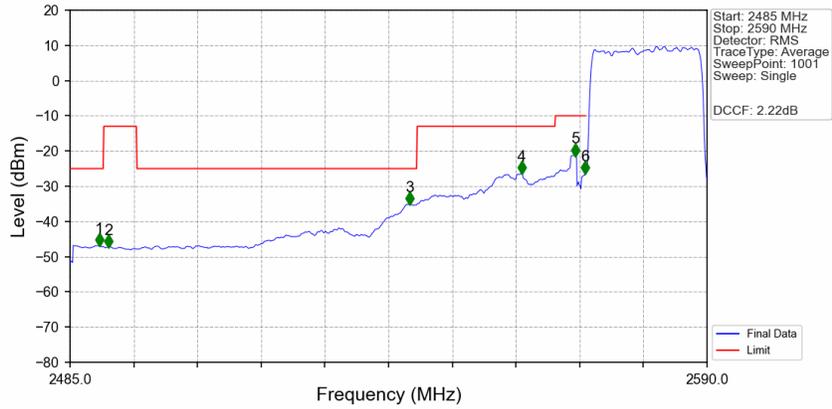
Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_LCH_2580MHz_RB_1_0_NTNV

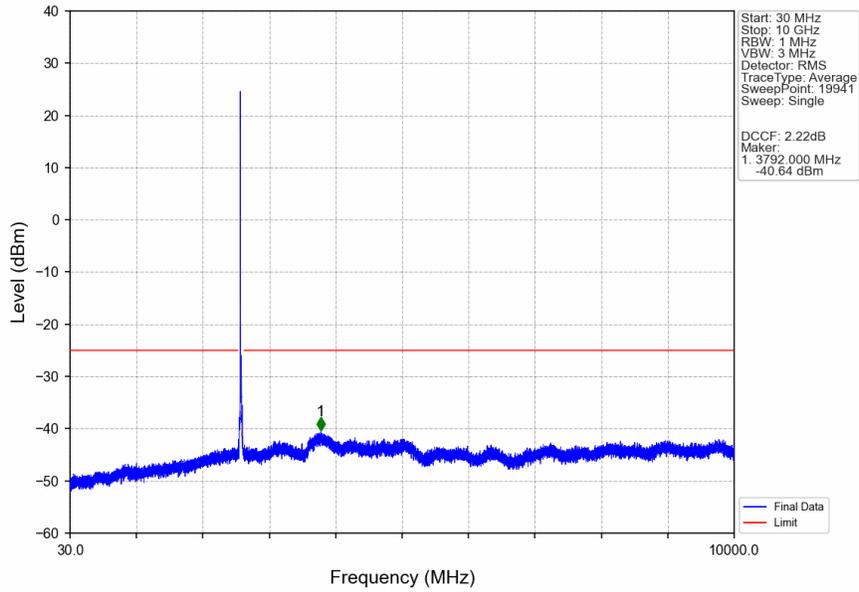


Band38_20MHz_QPSK_LCH_2580MHz_RB_100_0_NTNV

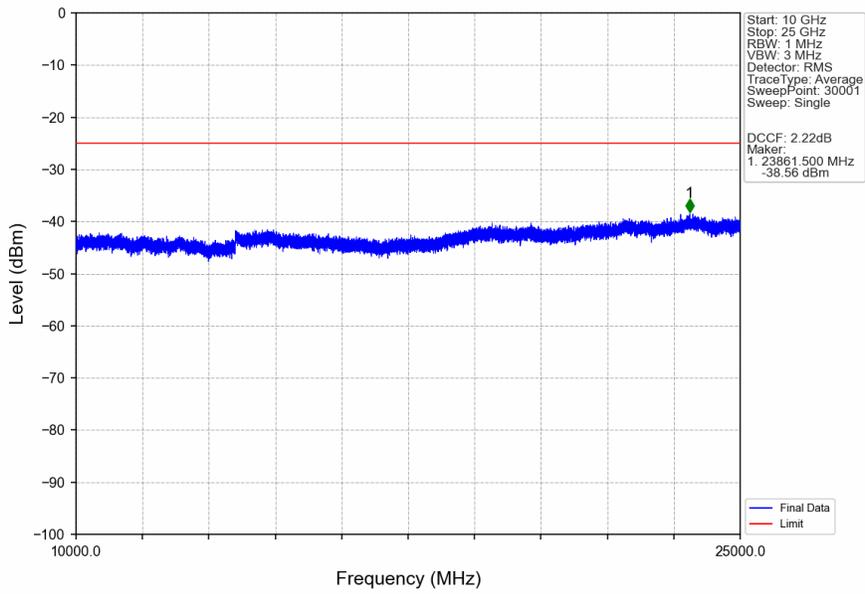


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2489.830	-46.71	-25	Pass
2490.5	2496	1	CHP	2	2491.300	-47.20	-25	Pass
2496	2542.12	1	CHP	3	2540.965	-35.01	-25	Pass
2542.12	2565	1	CHP	4	2559.445	-26.23	-13	Pass
2565	2569	1	CHP	5	2568.265	-21.25	-10	Pass
2569	2570	0.558	CHP	6	2569.945	-26.27	-10	Pass
2570	2590	0.558	CHP	/	/	/	/	/

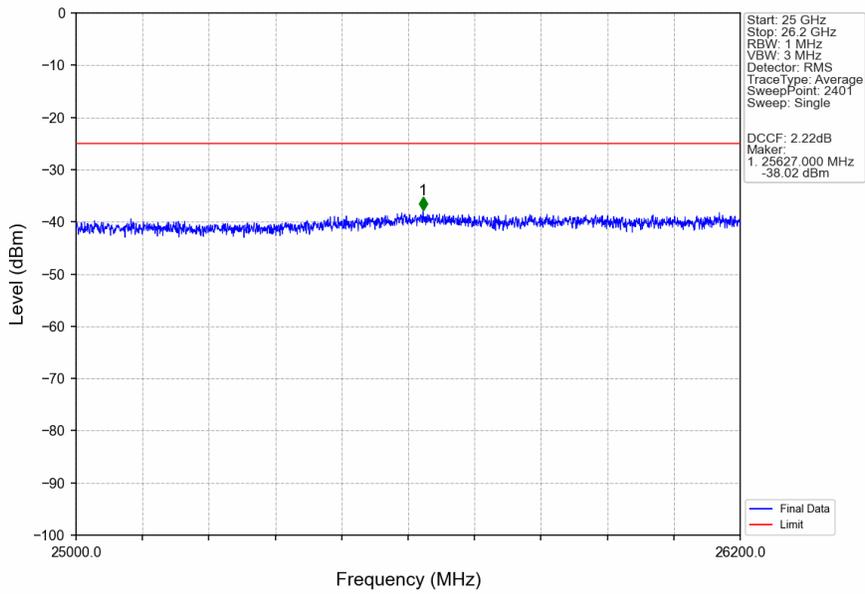
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



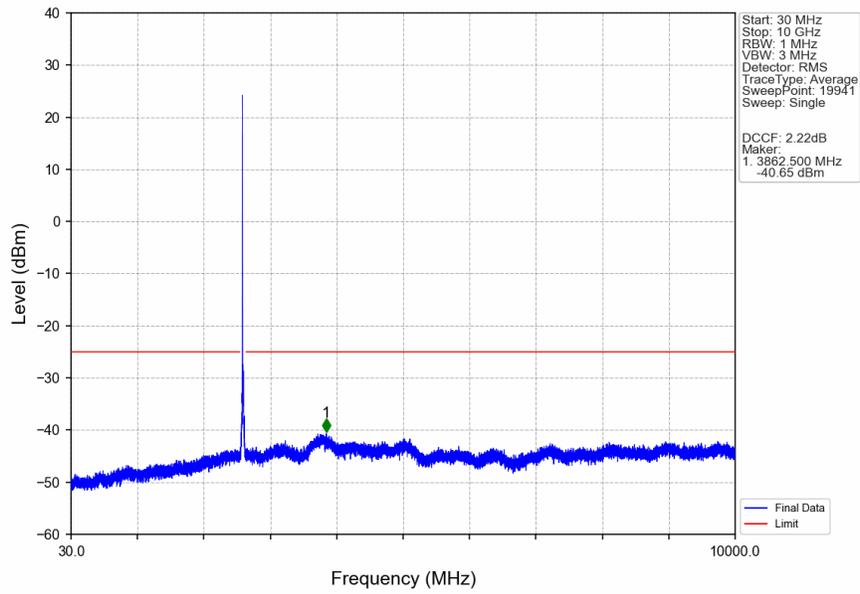
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



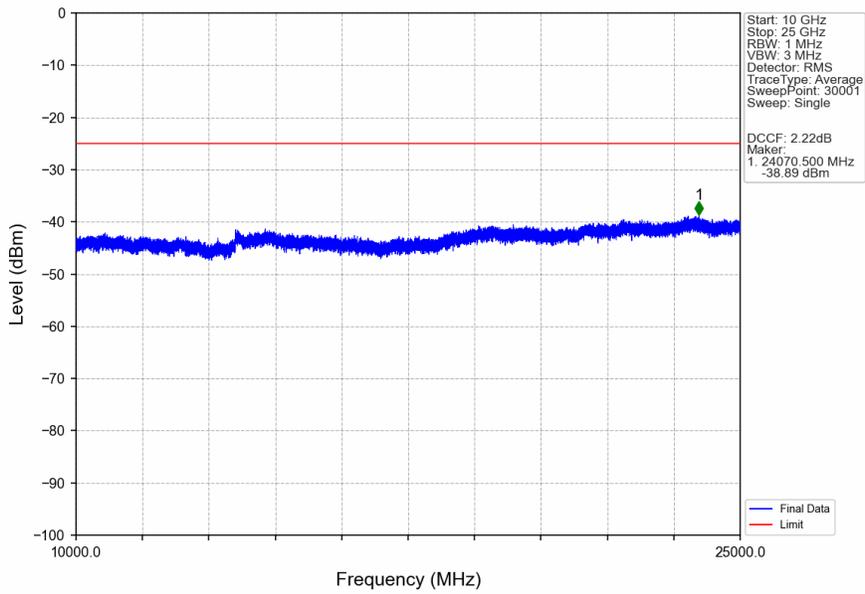
Band38_20MHz_QPSK_MCH_2595MHz_RB_1_0_NTNV



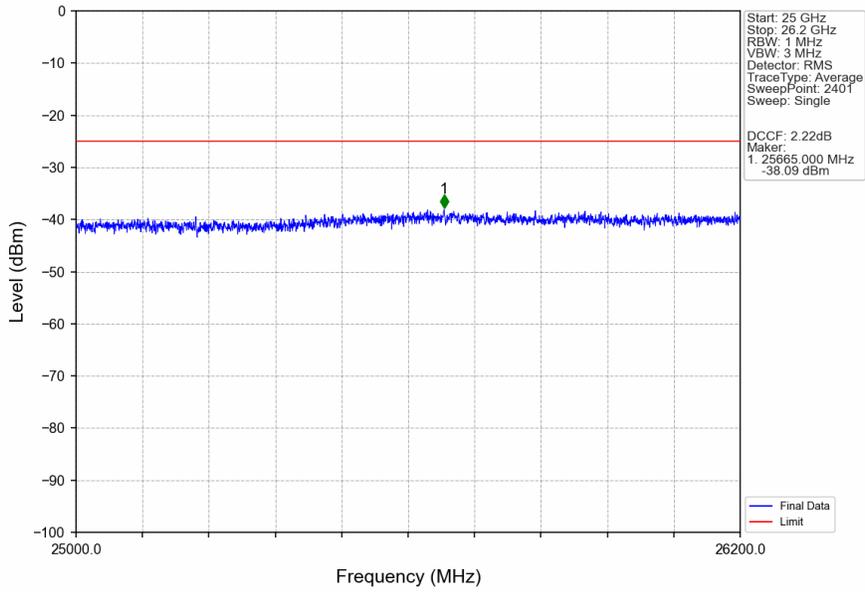
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



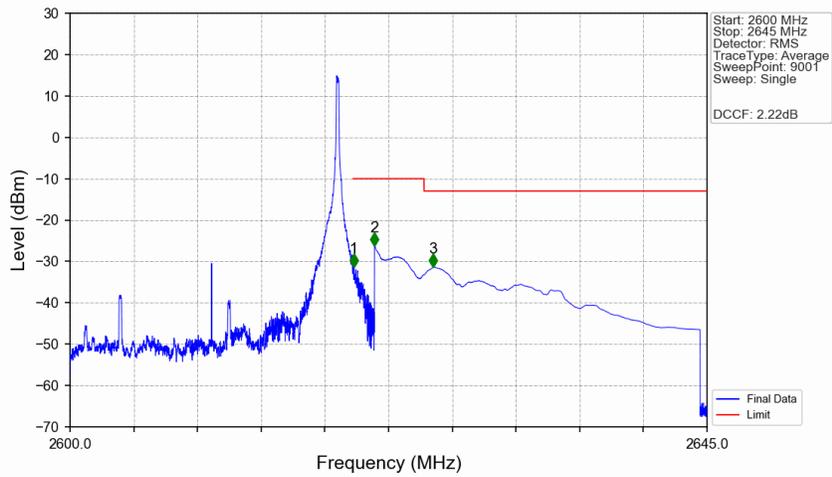
Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV



Band38_20MHz_QPSK_HCH_2610MHz_RB_1_0_NTNV

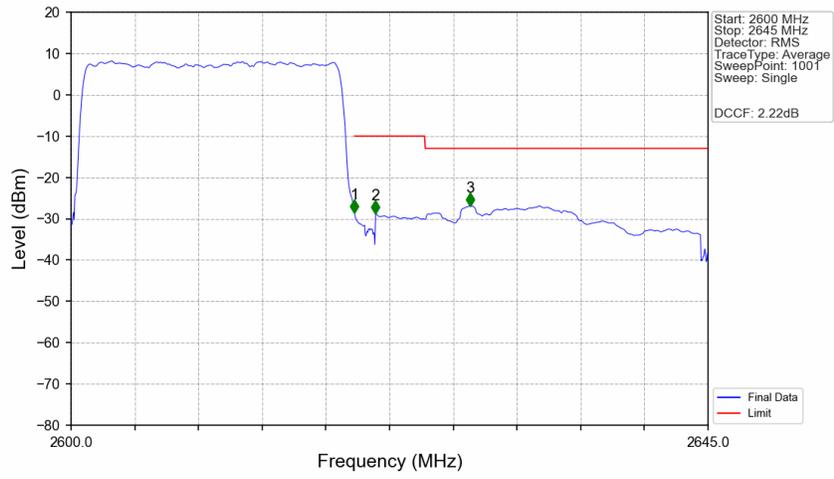


Band38_20MHz_QPSK_HCH_2610MHz_RB_1_99_NTNV



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	2620.030	-31.35	-10	Pass
2621	2625	1	CHP	2	2621.500	-26.18	-10	Pass
2625	2645	1	CHP	3	2625.660	-31.34	-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	0.503	CHP	/	/	/	/	/
2620	2621	0.503	CHP	1	2620.025	-28.64	-10	Pass
2621	2625	1	CHP	2	2621.510	-28.82	-10	Pass
2625	2645	1	CHP	3	2628.170	-26.89	-13	Pass

6. Field Strength of Spurious Radiation

LTE Band 38 ANT2-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	-63.35	-25	-38.35	-68.96	4.62	10.23	Horizontal	Pass
7713.0	-59.37	-25	-34.37	-66.4	4.96	11.99	Horizontal	Pass
10284.0	-51.05	-25	-26.05	-58.62	5.51	13.08	Horizontal	Pass
5142.0	-63.47	-25	-38.47	-69.08	4.62	10.23	Vertical	Pass
7713.0	-59.18	-25	-34.18	-66.21	4.96	11.99	Vertical	Pass
10284.0	-50.91	-25	-25.91	-58.48	5.51	13.08	Vertical	Pass

LTE Band 38 ANT2-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	-63.39	-25	-38.39	-69.01	4.63	10.25	Horizontal	Pass
7758.0	-59.02	-25	-34.02	-66.1	4.96	12.04	Horizontal	Pass
10344.0	-52.72	-25	-27.72	-60.29	5.52	13.09	Horizontal	Pass
5172.0	-63.14	-25	-38.14	-68.76	4.63	10.25	Vertical	Pass
7758.0	-57.88	-25	-32.88	-64.96	4.96	12.04	Vertical	Pass
10344.0	-50.92	-25	-25.92	-58.49	5.52	13.09	Vertical	Pass

LTE Band 38 ANT2-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	-63.21	-25	-38.21	-68.85	4.63	10.27	Horizontal	Pass
7803.0	-58.84	-25	-33.84	-65.98	4.96	12.1	Horizontal	Pass
10404.0	-53.32	-25	-28.32	-60.9	5.52	13.1	Horizontal	Pass
5202.0	-63.25	-25	-38.25	-68.89	4.63	10.27	Vertical	Pass
7803.0	-58.93	-25	-33.93	-66.07	4.96	12.1	Vertical	Pass
10404.0	-51.98	-25	-26.98	-59.56	5.52	13.1	Vertical	Pass