

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B7_5MHz_EIRP

Band: 7 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2502.5	1	0	23.68	3.00	26.68	<=33.01	Pass
			13	23.55	3.00	26.55	<=33.01	Pass
			24	23.72	3.00	26.72	<=33.01	Pass
		12	0	22.81	3.00	25.81	<=33.01	Pass
			6	22.79	3.00	25.79	<=33.01	Pass
			13	22.72	3.00	25.72	<=33.01	Pass
		25	0	22.78	3.00	25.78	<=33.01	Pass
	2535	1	0	23.96	3.00	26.96	<=33.01	Pass
			13	23.98	3.00	26.98	<=33.01	Pass
			24	23.97	3.00	26.97	<=33.01	Pass
		12	0	22.94	3.00	25.94	<=33.01	Pass
			6	22.96	3.00	25.96	<=33.01	Pass
			13	22.89	3.00	25.89	<=33.01	Pass
		25	0	22.86	3.00	25.86	<=33.01	Pass
	2567.5	1	0	23.93	3.00	26.93	<=33.01	Pass
			13	23.34	3.00	26.34	<=33.01	Pass
			24	23.79	3.00	26.79	<=33.01	Pass
		12	0	22.82	3.00	25.82	<=33.01	Pass
			6	22.87	3.00	25.87	<=33.01	Pass
			13	22.85	3.00	25.85	<=33.01	Pass
		25	0	22.72	3.00	25.72	<=33.01	Pass
16QAM	2502.5	1	0	22.99	3.00	25.99	<=33.01	Pass
			13	22.98	3.00	25.98	<=33.01	Pass
			24	22.78	3.00	25.78	<=33.01	Pass
		12	0	21.82	3.00	24.82	<=33.01	Pass
			6	21.69	3.00	24.69	<=33.01	Pass
			13	21.81	3.00	24.81	<=33.01	Pass
		25	0	21.78	3.00	24.78	<=33.01	Pass
	2535	1	0	23.03	3.00	26.03	<=33.01	Pass
			13	23.08	3.00	26.08	<=33.01	Pass
			24	23.00	3.00	26	<=33.01	Pass
		12	0	21.92	3.00	24.92	<=33.01	Pass
			6	22.12	3.00	25.12	<=33.01	Pass
			13	22.04	3.00	25.04	<=33.01	Pass
		25	0	21.82	3.00	24.82	<=33.01	Pass
	2567.5	1	0	22.67	3.00	25.67	<=33.01	Pass
			13	23.29	3.00	26.29	<=33.01	Pass
			24	22.94	3.00	25.94	<=33.01	Pass
		12	0	21.87	3.00	24.87	<=33.01	Pass
			6	21.92	3.00	24.92	<=33.01	Pass
			13	21.89	3.00	24.89	<=33.01	Pass
		25	0	21.70	3.00	24.7	<=33.01	Pass
64QAM	2502.5	1	0	22.30	3.00	25.3	<=33.01	Pass
			13	22.37	3.00	25.37	<=33.01	Pass
			24	22.81	3.00	25.81	<=33.01	Pass
		12	0	21.77	3.00	24.77	<=33.01	Pass
			6	21.80	3.00	24.8	<=33.01	Pass

			13	21.40	3.00	24.4	<=33.01	Pass
		25	0	21.44	3.00	24.44	<=33.01	Pass
	2535	1	0	22.94	3.00	25.94	<=33.01	Pass
			13	23.15	3.00	26.15	<=33.01	Pass
			24	22.57	3.00	25.57	<=33.01	Pass
		12	0	21.87	3.00	24.87	<=33.01	Pass
			6	21.95	3.00	24.95	<=33.01	Pass
			13	22.01	3.00	25.01	<=33.01	Pass
		25	0	21.83	3.00	24.83	<=33.01	Pass
	2567.5	1	0	22.88	3.00	25.88	<=33.01	Pass
			13	22.81	3.00	25.81	<=33.01	Pass
			24	22.29	3.00	25.29	<=33.01	Pass
		12	0	21.74	3.00	24.74	<=33.01	Pass
			6	21.83	3.00	24.83	<=33.01	Pass
			13	21.89	3.00	24.89	<=33.01	Pass
	25	0	21.75	3.00	24.75	<=33.01	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B7_10MHz_EIRP

Band: 7 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2505	1	0	23.23	3.00	26.23	<=33.01	Pass
			25	23.43	3.00	26.43	<=33.01	Pass
			49	23.64	3.00	26.64	<=33.01	Pass
		25	0	22.76	3.00	25.76	<=33.01	Pass
			13	22.79	3.00	25.79	<=33.01	Pass
			25	22.77	3.00	25.77	<=33.01	Pass
		50	0	22.78	3.00	25.78	<=33.01	Pass
	2535	1	0	23.98	3.00	26.98	<=33.01	Pass
			25	23.46	3.00	26.46	<=33.01	Pass
			49	23.36	3.00	26.36	<=33.01	Pass
		25	0	22.86	3.00	25.86	<=33.01	Pass
			13	22.86	3.00	25.86	<=33.01	Pass
			25	22.95	3.00	25.95	<=33.01	Pass
		50	0	22.83	3.00	25.83	<=33.01	Pass
	2565	1	0	23.83	3.00	26.83	<=33.01	Pass
			25	23.74	3.00	26.74	<=33.01	Pass
			49	23.46	3.00	26.46	<=33.01	Pass
		25	0	22.61	3.00	25.61	<=33.01	Pass
			13	22.92	3.00	25.92	<=33.01	Pass
			25	22.87	3.00	25.87	<=33.01	Pass
		50	0	22.87	3.00	25.87	<=33.01	Pass
16QAM	2505	1	0	22.40	3.00	25.4	<=33.01	Pass
			25	23.21	3.00	26.21	<=33.01	Pass
			49	21.85	3.00	24.85	<=33.01	Pass
		25	0	21.77	3.00	24.77	<=33.01	Pass
			13	21.81	3.00	24.81	<=33.01	Pass
			25	21.81	3.00	24.81	<=33.01	Pass
		50	0	21.77	3.00	24.77	<=33.01	Pass
	2535	1	0	23.05	3.00	26.05	<=33.01	Pass
			25	23.11	3.00	26.11	<=33.01	Pass
			49	23.14	3.00	26.14	<=33.01	Pass
		25	0	21.95	3.00	24.95	<=33.01	Pass
			13	21.85	3.00	24.85	<=33.01	Pass
			25	21.96	3.00	24.96	<=33.01	Pass

	2565	1	50	0	21.78	3.00	24.78	<=33.01	Pass
			1	0	22.82	3.00	25.82	<=33.01	Pass
				25	23.24	3.00	26.24	<=33.01	Pass
				49	23.23	3.00	26.23	<=33.01	Pass
		25	50	0	22.01	3.00	25.01	<=33.01	Pass
				13	21.95	3.00	24.95	<=33.01	Pass
				25	21.87	3.00	24.87	<=33.01	Pass
		50	50	0	21.93	3.00	24.93	<=33.01	Pass
				0	22.80	3.00	25.8	<=33.01	Pass
				25	21.90	3.00	24.9	<=33.01	Pass
64QAM	2505	1	50	49	22.49	3.00	25.49	<=33.01	Pass
				0	21.76	3.00	24.76	<=33.01	Pass
				13	21.82	3.00	24.82	<=33.01	Pass
		25	50	25	21.55	3.00	24.55	<=33.01	Pass
				0	21.72	3.00	24.72	<=33.01	Pass
				0	23.01	3.00	26.01	<=33.01	Pass
		2535	1	25	22.71	3.00	25.71	<=33.01	Pass
				49	22.94	3.00	25.94	<=33.01	Pass
				0	21.83	3.00	24.83	<=33.01	Pass
			25	13	21.81	3.00	24.81	<=33.01	Pass
				25	21.91	3.00	24.91	<=33.01	Pass
				0	21.77	3.00	24.77	<=33.01	Pass
	2565	1	50	0	22.83	3.00	25.83	<=33.01	Pass
				25	22.73	3.00	25.73	<=33.01	Pass
				49	22.70	3.00	25.7	<=33.01	Pass
		25	50	0	21.89	3.00	24.89	<=33.01	Pass
				13	21.88	3.00	24.88	<=33.01	Pass
				25	21.84	3.00	24.84	<=33.01	Pass
		50	50	0	21.94	3.00	24.94	<=33.01	Pass
				0	22.80	3.00	25.8	<=33.01	Pass
				25	21.90	3.00	24.9	<=33.01	Pass
		25	50	25	21.55	3.00	24.55	<=33.01	Pass
				0	21.72	3.00	24.72	<=33.01	Pass
				0	23.01	3.00	26.01	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B7_15MHz_EIRP

Band: 7 / Bandwidth: 15MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2507.5	1	0	23.27	3.00	26.27	<=33.01	Pass
			38	23.40	3.00	26.4	<=33.01	Pass
			74	24.00	3.00	27	<=33.01	Pass
		36	0	22.65	3.00	25.65	<=33.01	Pass
			18	22.77	3.00	25.77	<=33.01	Pass
			39	22.78	3.00	25.78	<=33.01	Pass
		75	0	22.69	3.00	25.69	<=33.01	Pass
	2535	1	0	23.86	3.00	26.86	<=33.01	Pass
			38	23.61	3.00	26.61	<=33.01	Pass
			74	23.50	3.00	26.5	<=33.01	Pass
		36	0	22.90	3.00	25.9	<=33.01	Pass
			18	22.85	3.00	25.85	<=33.01	Pass
			39	22.86	3.00	25.86	<=33.01	Pass
		75	0	22.81	3.00	25.81	<=33.01	Pass
	2562.5	1	0	23.65	3.00	26.65	<=33.01	Pass
			38	23.78	3.00	26.78	<=33.01	Pass
			74	23.84	3.00	26.84	<=33.01	Pass
		36	0	22.83	3.00	25.83	<=33.01	Pass
			18	22.81	3.00	25.81	<=33.01	Pass
			39	22.87	3.00	25.87	<=33.01	Pass
		75	0	22.82	3.00	25.82	<=33.01	Pass

16QAM	2507.5	1	0	22.60	3.00	25.6	<=33.01	Pass	
			38	23.20	3.00	26.2	<=33.01	Pass	
			74	22.61	3.00	25.61	<=33.01	Pass	
		36	0	21.31	3.00	24.31	<=33.01	Pass	
			18	21.75	3.00	24.75	<=33.01	Pass	
			39	21.84	3.00	24.84	<=33.01	Pass	
		75	0	21.76	3.00	24.76	<=33.01	Pass	
		2535	1	0	23.16	3.00	26.16	<=33.01	Pass
				38	22.88	3.00	25.88	<=33.01	Pass
	74			23.05	3.00	26.05	<=33.01	Pass	
	36		0	21.75	3.00	24.75	<=33.01	Pass	
			18	21.95	3.00	24.95	<=33.01	Pass	
			39	21.85	3.00	24.85	<=33.01	Pass	
	75		0	21.83	3.00	24.83	<=33.01	Pass	
	2562.5		1	0	22.80	3.00	25.8	<=33.01	Pass
				38	23.34	3.00	26.34	<=33.01	Pass
		74		22.96	3.00	25.96	<=33.01	Pass	
		36	0	21.75	3.00	24.75	<=33.01	Pass	
			18	21.83	3.00	24.83	<=33.01	Pass	
			39	21.81	3.00	24.81	<=33.01	Pass	
		75	0	21.54	3.00	24.54	<=33.01	Pass	
64QAM		2507.5	1	0	22.60	3.00	25.6	<=33.01	Pass
				38	22.84	3.00	25.84	<=33.01	Pass
	74			22.18	3.00	25.18	<=33.01	Pass	
	36		0	21.49	3.00	24.49	<=33.01	Pass	
			18	21.70	3.00	24.7	<=33.01	Pass	
			39	21.74	3.00	24.74	<=33.01	Pass	
	75		0	21.69	3.00	24.69	<=33.01	Pass	
	2535		1	0	22.68	3.00	25.68	<=33.01	Pass
				38	22.40	3.00	25.4	<=33.01	Pass
		74		22.40	3.00	25.4	<=33.01	Pass	
		36	0	21.86	3.00	24.86	<=33.01	Pass	
			18	21.90	3.00	24.9	<=33.01	Pass	
			39	21.95	3.00	24.95	<=33.01	Pass	
		75	0	21.80	3.00	24.8	<=33.01	Pass	
		2562.5	1	0	22.79	3.00	25.79	<=33.01	Pass
				38	23.13	3.00	26.13	<=33.01	Pass
	74			22.23	3.00	25.23	<=33.01	Pass	
	36		0	21.69	3.00	24.69	<=33.01	Pass	
			18	21.87	3.00	24.87	<=33.01	Pass	
			39	21.92	3.00	24.92	<=33.01	Pass	
	75		0	21.84	3.00	24.84	<=33.01	Pass	
Note1: EIRP=Conducted Power+Antenna Gain									

1.1.4 B7_20MHz_EIRP

Band: 7 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2510	1	0	23.65	3.00	26.65	<=33.01	Pass
			50	23.85	3.00	26.85	<=33.01	Pass
			99	23.80	3.00	26.8	<=33.01	Pass
		50	0	22.58	3.00	25.58	<=33.01	Pass
			25	22.81	3.00	25.81	<=33.01	Pass
			50	22.73	3.00	25.73	<=33.01	Pass
		100	0	22.72	3.00	25.72	<=33.01	Pass
	2535	1	0	23.86	3.00	26.86	<=33.01	Pass

			50	23.92	3.00	26.92	<=33.01	Pass		
			99	23.97	3.00	26.97	<=33.01	Pass		
			50	0	22.90	3.00	25.9	<=33.01	Pass	
				25	23.45	3.00	26.45	<=33.01	Pass	
				50	22.85	3.00	25.85	<=33.01	Pass	
		100	0	22.79	3.00	25.79	<=33.01	Pass		
	2560	1	0	23.87	3.00	26.87	<=33.01	Pass		
			50	23.95	3.00	26.95	<=33.01	Pass		
			99	23.44	3.00	26.44	<=33.01	Pass		
		50	0	22.81	3.00	25.81	<=33.01	Pass		
			25	22.86	3.00	25.86	<=33.01	Pass		
			50	22.83	3.00	25.83	<=33.01	Pass		
	100	0	22.81	3.00	25.81	<=33.01	Pass			
	16QAM	2510	1	0	22.72	3.00	25.72	<=33.01	Pass	
				50	22.69	3.00	25.69	<=33.01	Pass	
99				23.08	3.00	26.08	<=33.01	Pass		
50			0	21.60	3.00	24.6	<=33.01	Pass		
			25	21.77	3.00	24.77	<=33.01	Pass		
			50	21.68	3.00	24.68	<=33.01	Pass		
100			0	21.80	3.00	24.8	<=33.01	Pass		
2535			1	0	22.63	3.00	25.63	<=33.01	Pass	
				50	22.94	3.00	25.94	<=33.01	Pass	
				99	22.87	3.00	25.87	<=33.01	Pass	
		50	0	21.77	3.00	24.77	<=33.01	Pass		
			25	21.86	3.00	24.86	<=33.01	Pass		
			50	21.85	3.00	24.85	<=33.01	Pass		
		100	0	21.77	3.00	24.77	<=33.01	Pass		
2560		1	0	22.63	3.00	25.63	<=33.01	Pass		
			50	22.90	3.00	25.9	<=33.01	Pass		
			99	22.74	3.00	25.74	<=33.01	Pass		
		50	0	21.87	3.00	24.87	<=33.01	Pass		
			25	21.95	3.00	24.95	<=33.01	Pass		
			50	21.81	3.00	24.81	<=33.01	Pass		
		100	0	21.90	3.00	24.9	<=33.01	Pass		
		64QAM	2510	1	0	22.74	3.00	25.74	<=33.01	Pass
					50	22.94	3.00	25.94	<=33.01	Pass
99					22.30	3.00	25.3	<=33.01	Pass	
50				0	21.72	3.00	24.72	<=33.01	Pass	
				25	21.80	3.00	24.8	<=33.01	Pass	
				50	21.76	3.00	24.76	<=33.01	Pass	
100				0	21.79	3.00	24.79	<=33.01	Pass	
2535			1	0	22.64	3.00	25.64	<=33.01	Pass	
				50	22.53	3.00	25.53	<=33.01	Pass	
	99			22.95	3.00	25.95	<=33.01	Pass		
	50		0	21.87	3.00	24.87	<=33.01	Pass		
			25	21.87	3.00	24.87	<=33.01	Pass		
			50	21.85	3.00	24.85	<=33.01	Pass		
100	0		21.87	3.00	24.87	<=33.01	Pass			
2560	1		0	22.63	3.00	25.63	<=33.01	Pass		
		50	22.19	3.00	25.19	<=33.01	Pass			
		99	22.67	3.00	25.67	<=33.01	Pass			
	50	0	21.89	3.00	24.89	<=33.01	Pass			
		25	21.95	3.00	24.95	<=33.01	Pass			
		50	21.90	3.00	24.9	<=33.01	Pass			
	100	0	21.89	3.00	24.89	<=33.01	Pass			
	Note1: EIRP=Conducted Power+Antenna Gain									

2. Frequency Stability

2.1 Test Result

2.1.1 B7_10MHz

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2535	50	0	20	LV	-1.500	-0.0006	-2.5 to 2.5	Pass
					HV	-3.300	-0.0013	-2.5 to 2.5	Pass
					NV	-3.200	-0.0013	-2.5 to 2.5	Pass
				-30	NV	-2.700	-0.0011	-2.5 to 2.5	Pass
				-20	NV	-3.100	-0.0012	-2.5 to 2.5	Pass
				-10	NV	-0.700	-0.0003	-2.5 to 2.5	Pass
				0	NV	-1.300	-0.0005	-2.5 to 2.5	Pass
				10	NV	-1.600	-0.0006	-2.5 to 2.5	Pass
				30	NV	-0.200	-0.0001	-2.5 to 2.5	Pass
				40	NV	-1.000	-0.0004	-2.5 to 2.5	Pass
				50	NV	-0.400	-0.0002	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band7_OBW

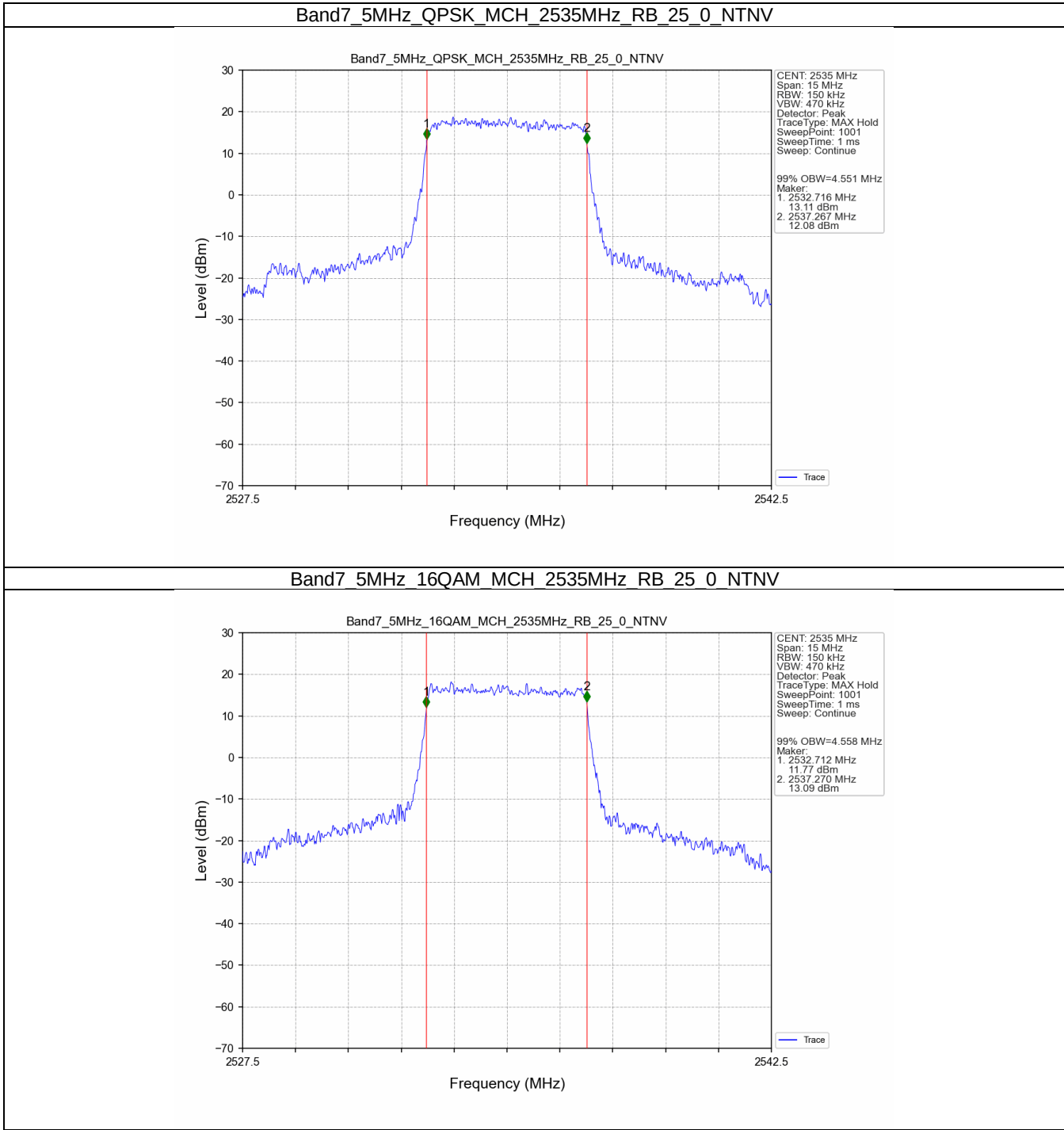
Band: 7 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	4.551	/	Pass
	16QAM	2535	25	0	4.558	/	Pass
10	QPSK	2535	50	0	9.092	/	Pass
	16QAM	2535	50	0	9.096	/	Pass
15	QPSK	2535	75	0	13.616	/	Pass
	16QAM	2535	75	0	13.659	/	Pass
20	QPSK	2535	100	0	18.132	/	Pass
	16QAM	2535	100	0	18.165	/	Pass

3.1.2 Band7_XDB

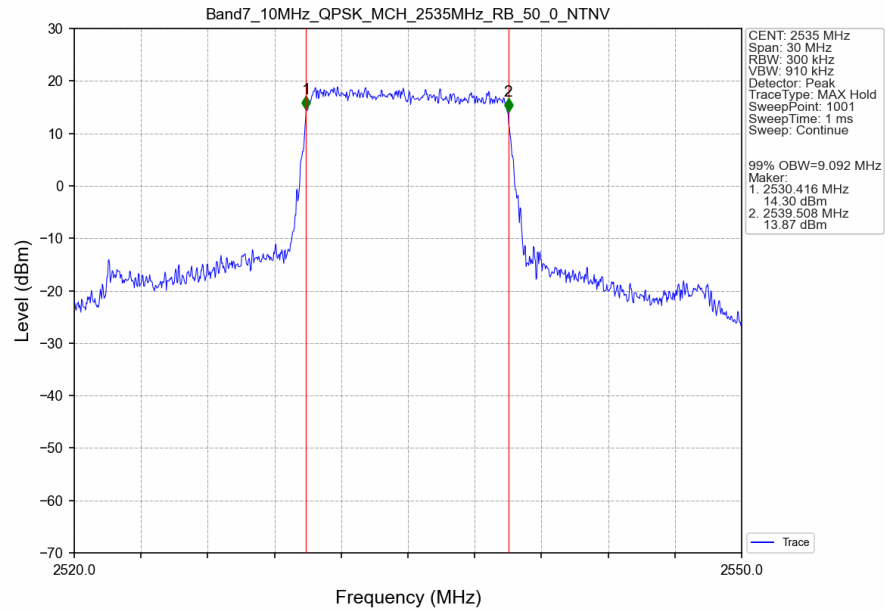
Band: 7 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2535	25	0	5.281	/	Pass
	16QAM	2535	25	0	5.226	/	Pass
10	QPSK	2535	50	0	10.192	/	Pass
	16QAM	2535	50	0	10.200	/	Pass
15	QPSK	2535	75	0	15.253	/	Pass
	16QAM	2535	75	0	15.217	/	Pass
20	QPSK	2535	100	0	20.109	/	Pass
	16QAM	2535	100	0	20.047	/	Pass

3.2 Test Graph

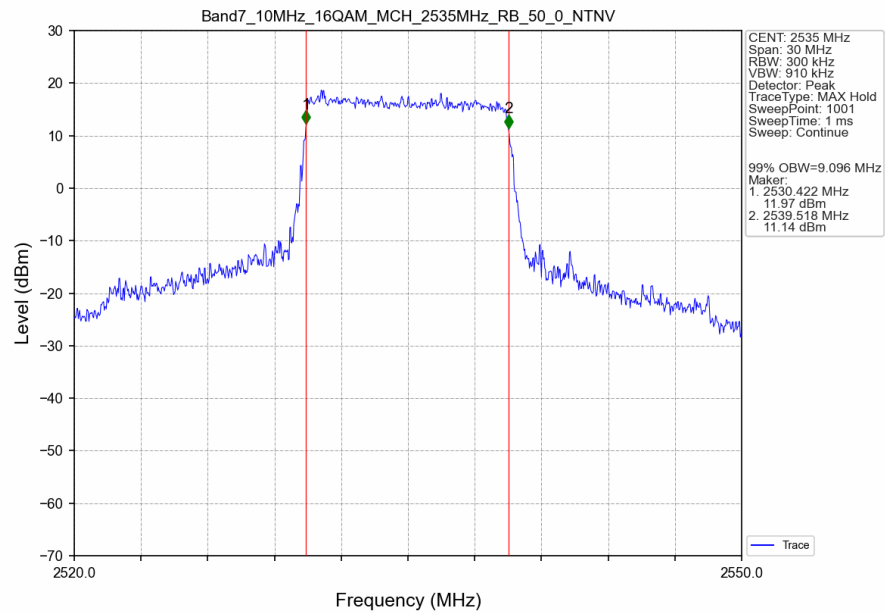
3.2.1 Band7_OBW



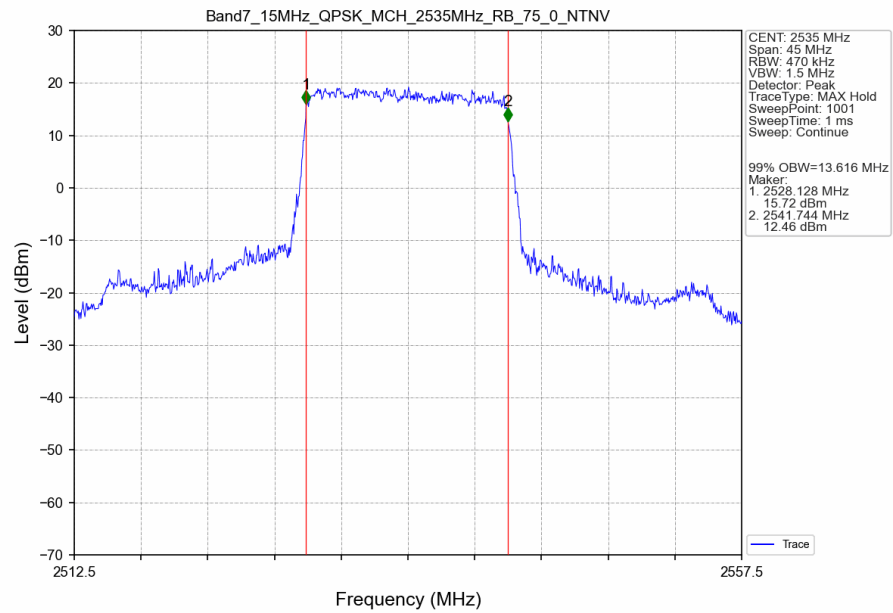
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTV



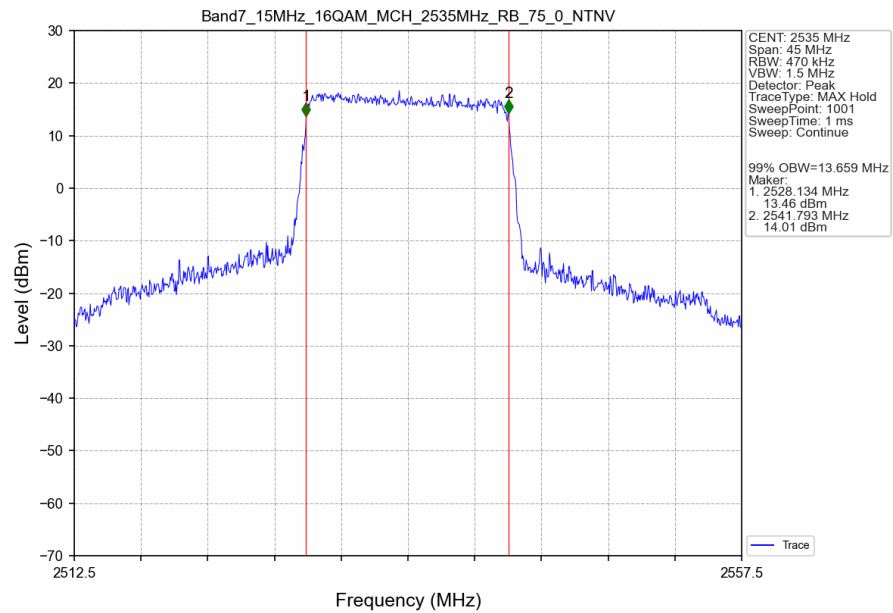
Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTV



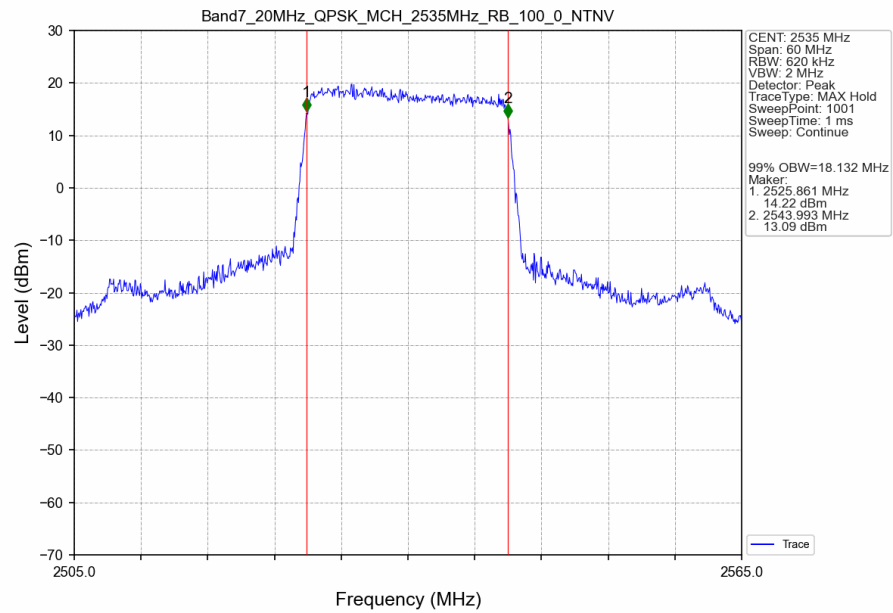
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTV



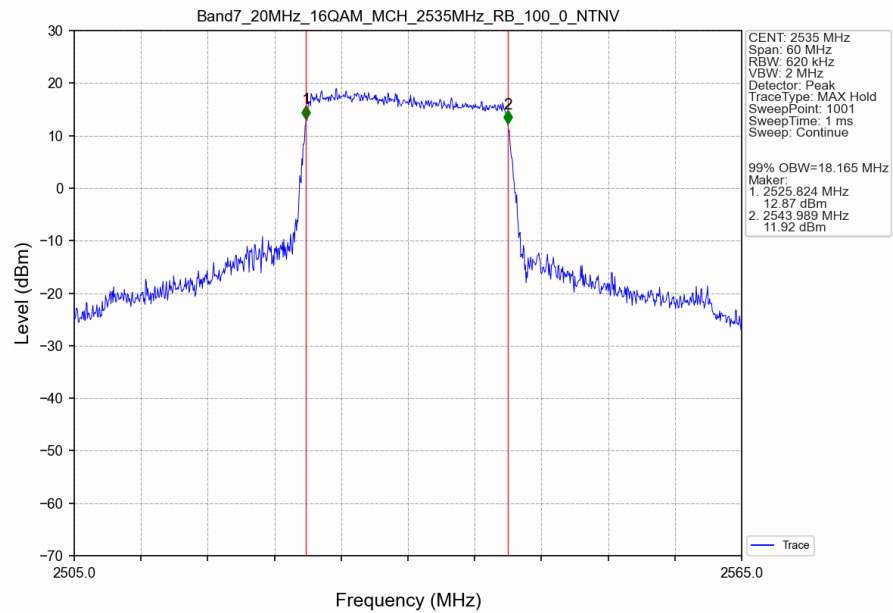
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTV



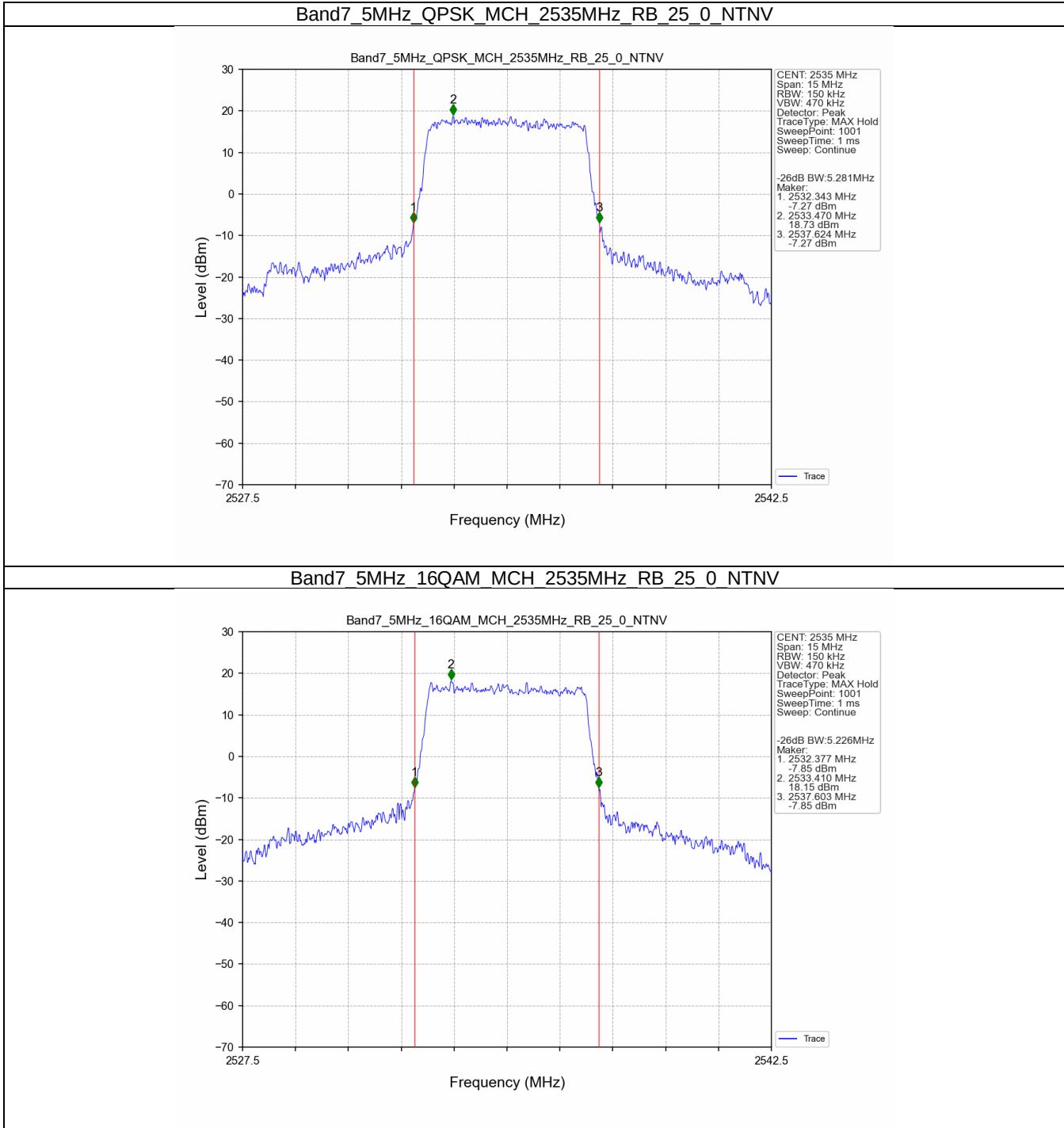
Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTNV



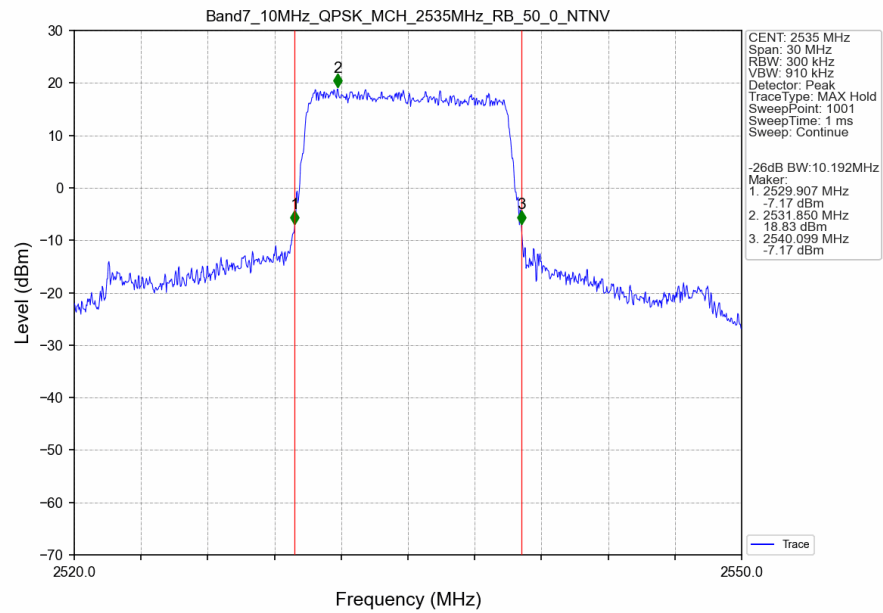
Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTNV



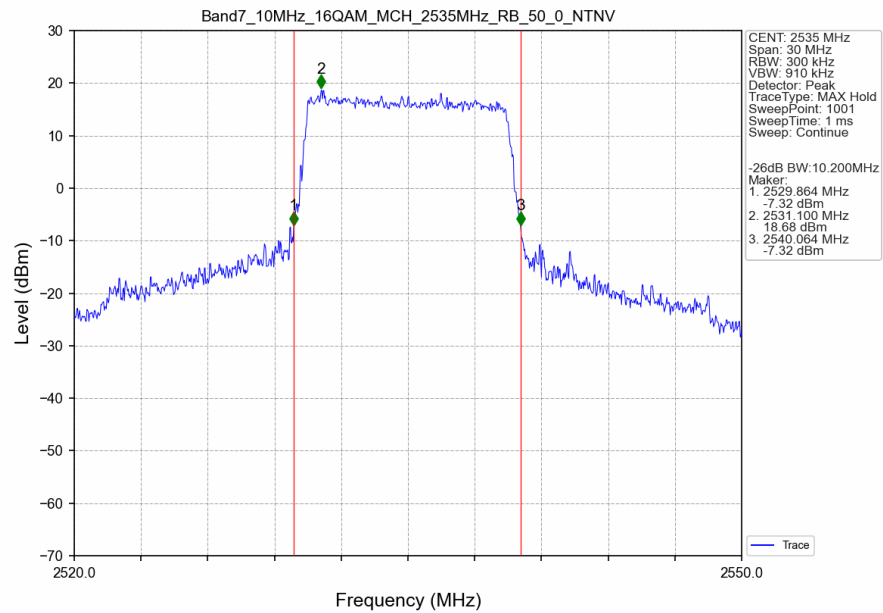
3.2.2 Band7_XDB



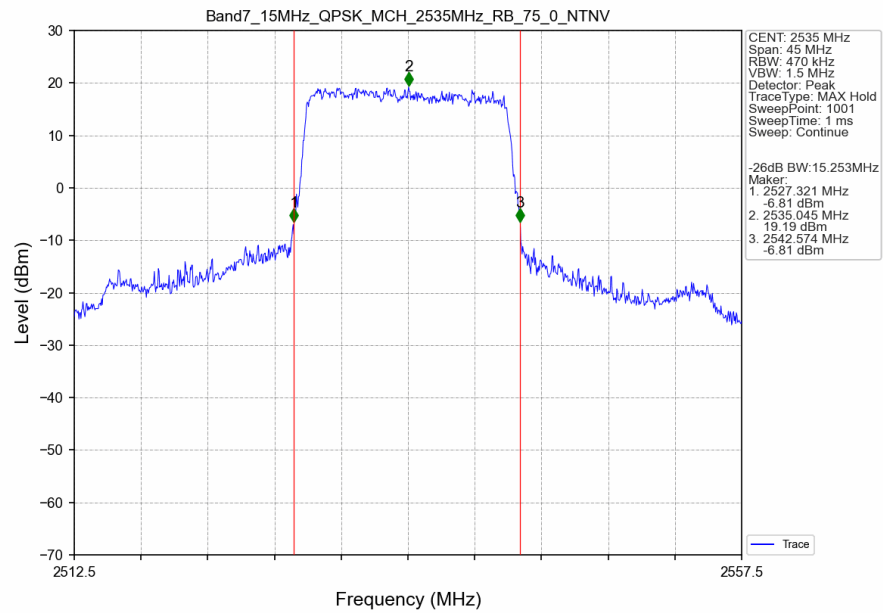
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTV



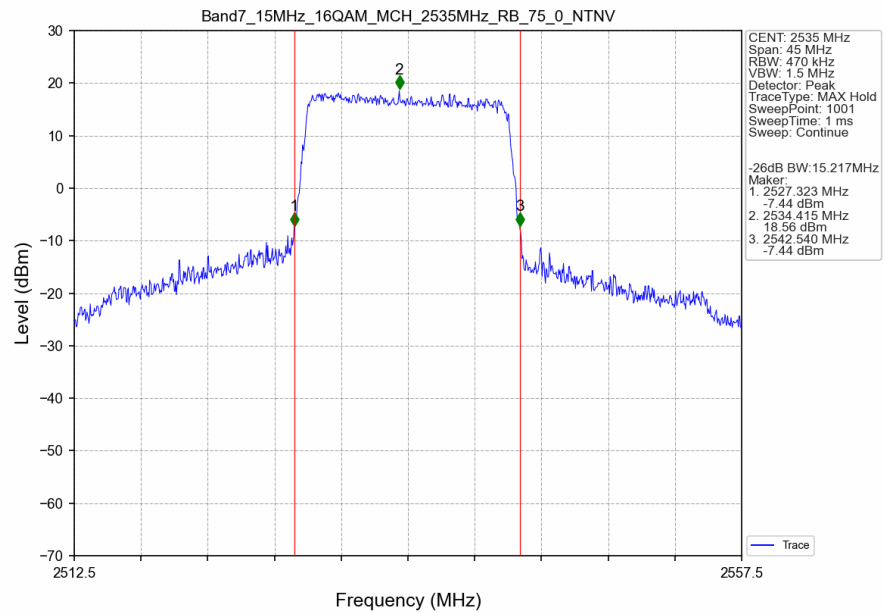
Band7 10MHz 16QAM MCH 2535MHz RB 50 0 NTV



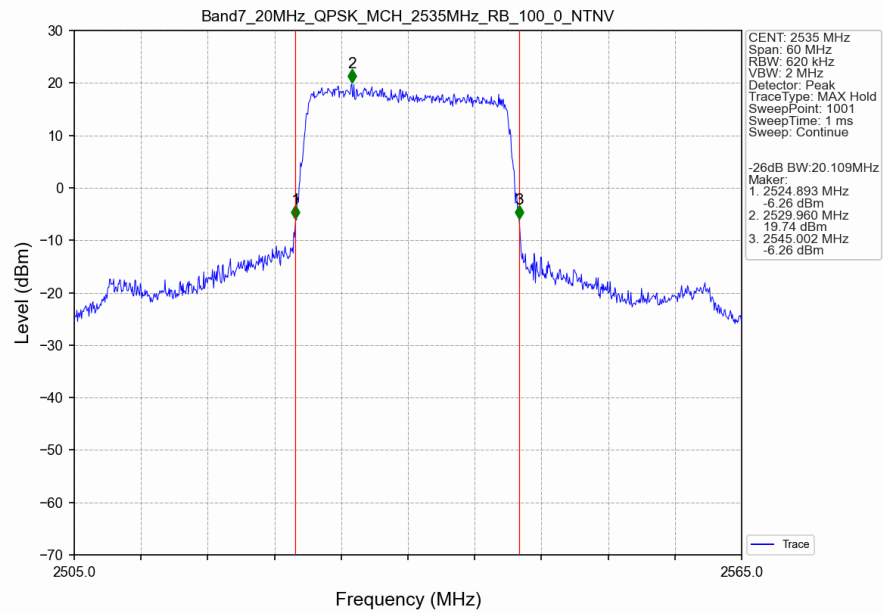
Band7 15MHz QPSK MCH 2535MHz RB 75 0 NTV



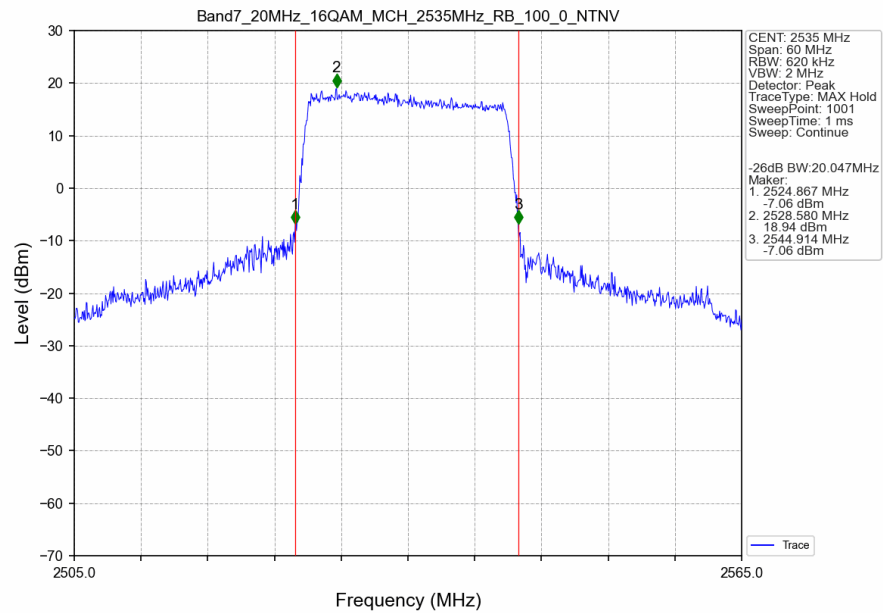
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTV



Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTN



Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTN



4. Peak-Average Ratio

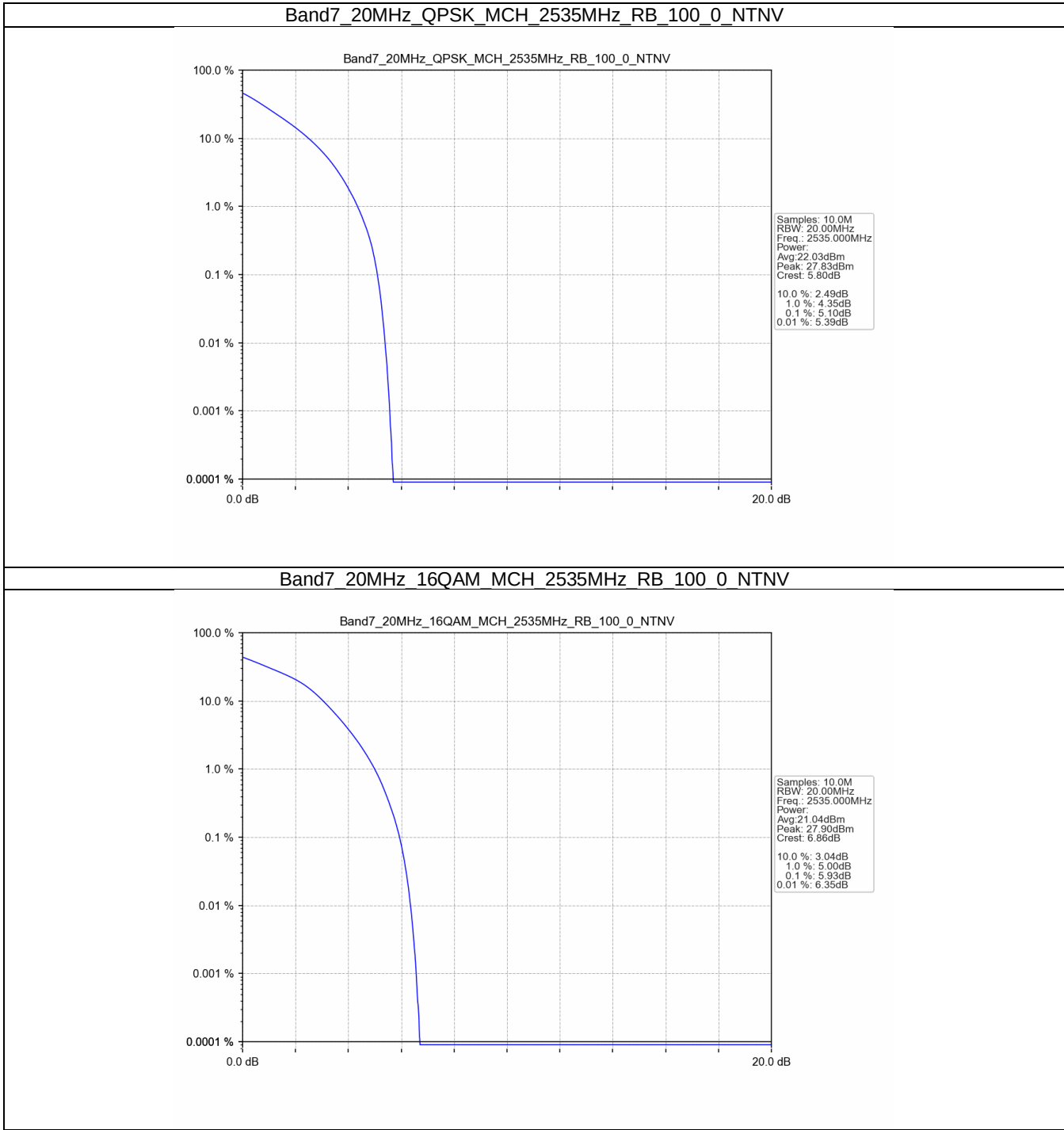
4.1 Test Result

4.1.1 B7_20MHz

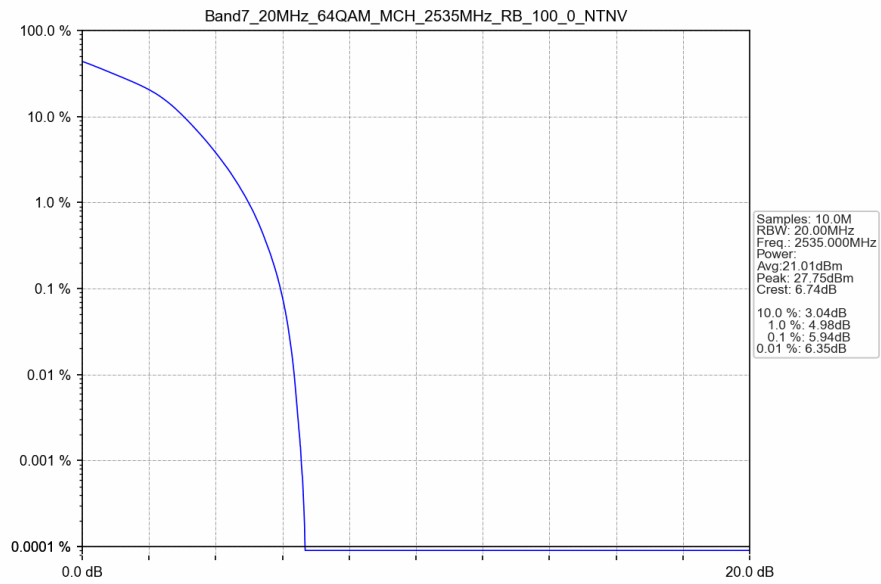
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2535	100	0	5.10	<=13	Pass
16QAM	2535	100	0	5.93	<=13	Pass
64QAM	2535	100	0	5.94	<=13	Pass

4.2 Test Graph

4.2.1 B7_20MHz



Band7 20MHz 64QAM MCH 2535MHz RB 100 0 NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2567.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.1.3 B7_15MHz

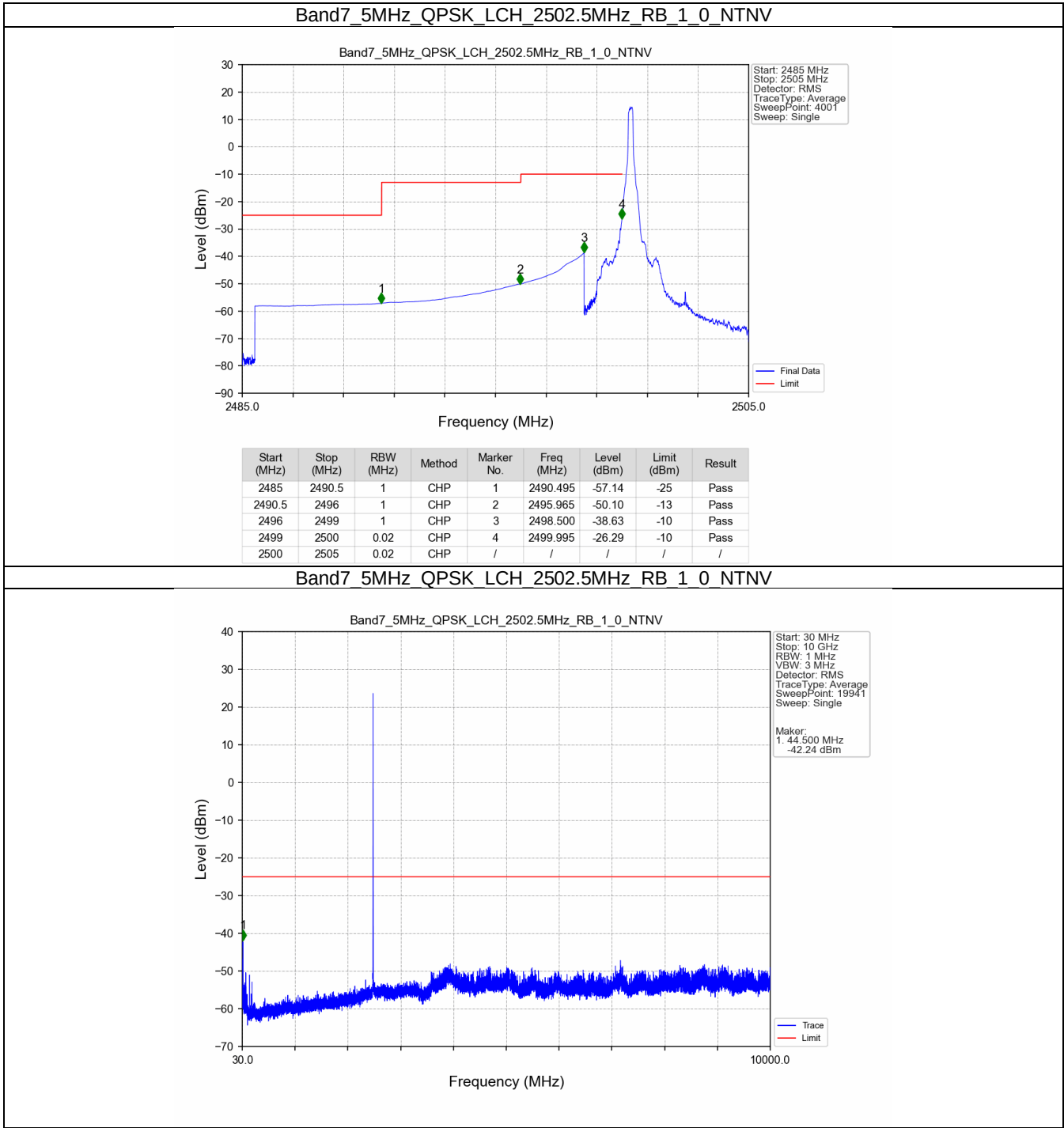
Band: 7 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.1.4 B7_20MHz

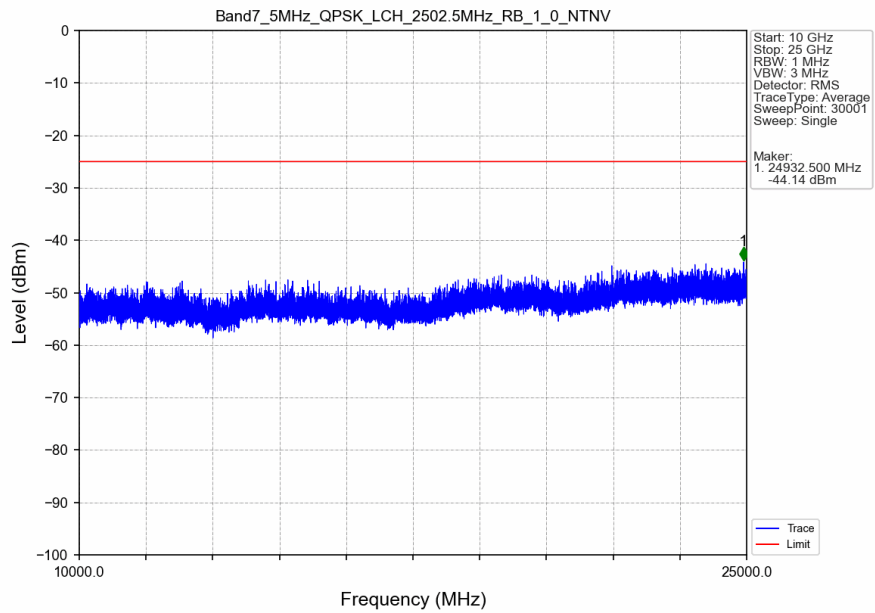
Band: 7 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass

5.2 Test Graph

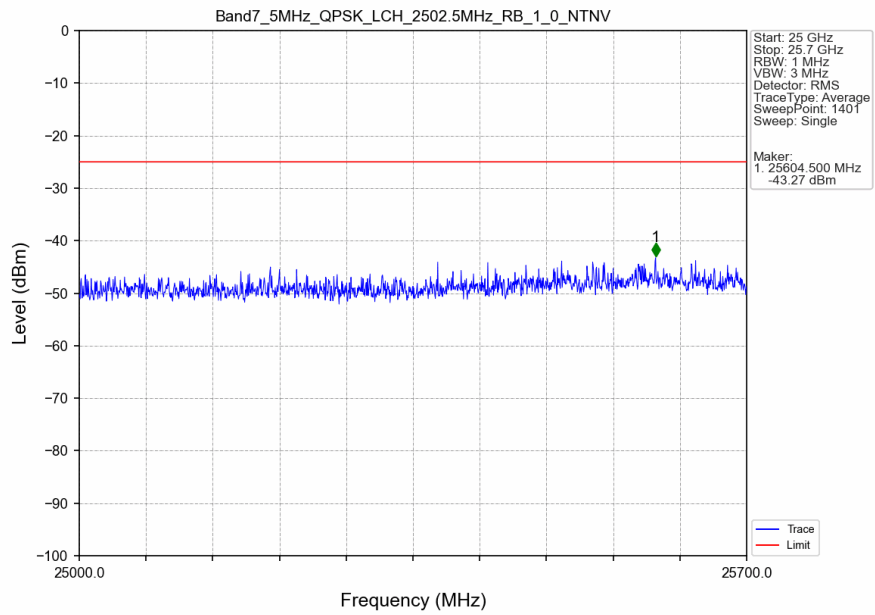
5.2.1 B7_5MHz



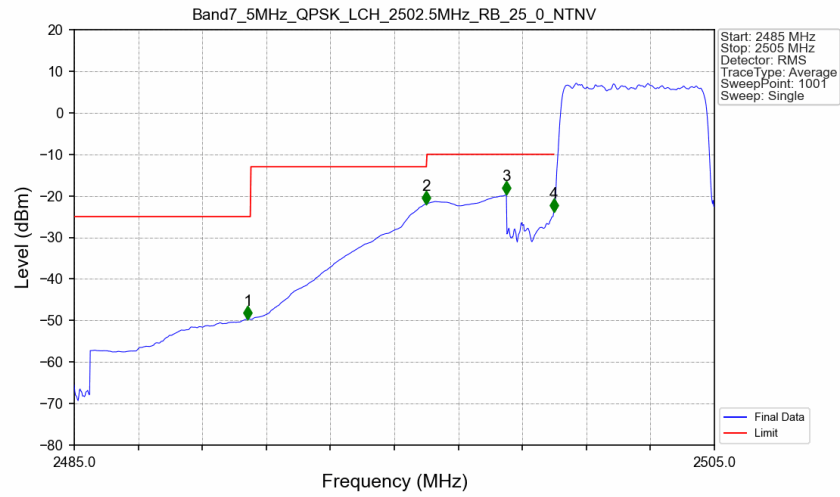
Band7 5MHz QPSK LCH 2502.5MHz RB 1 0 NTN



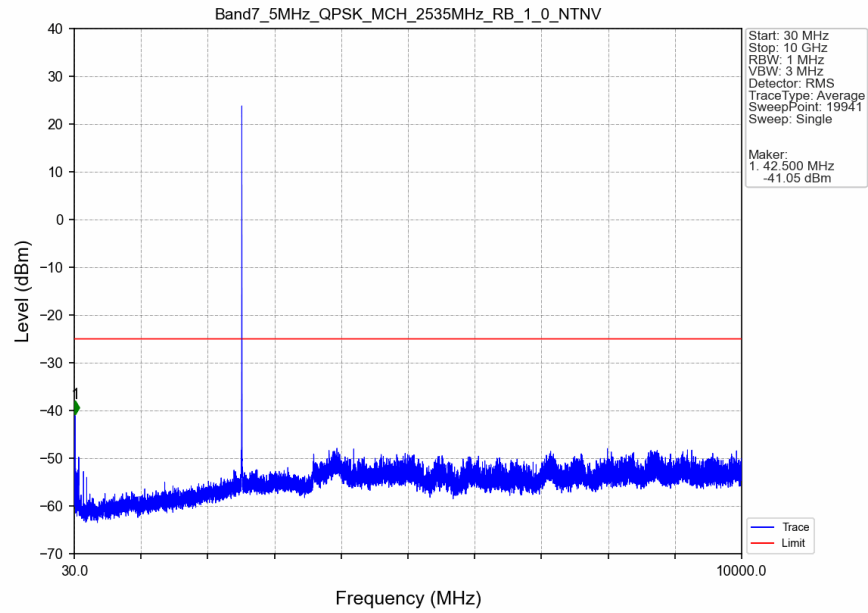
Band7 5MHz QPSK LCH 2502.5MHz RB 1 0 NTN



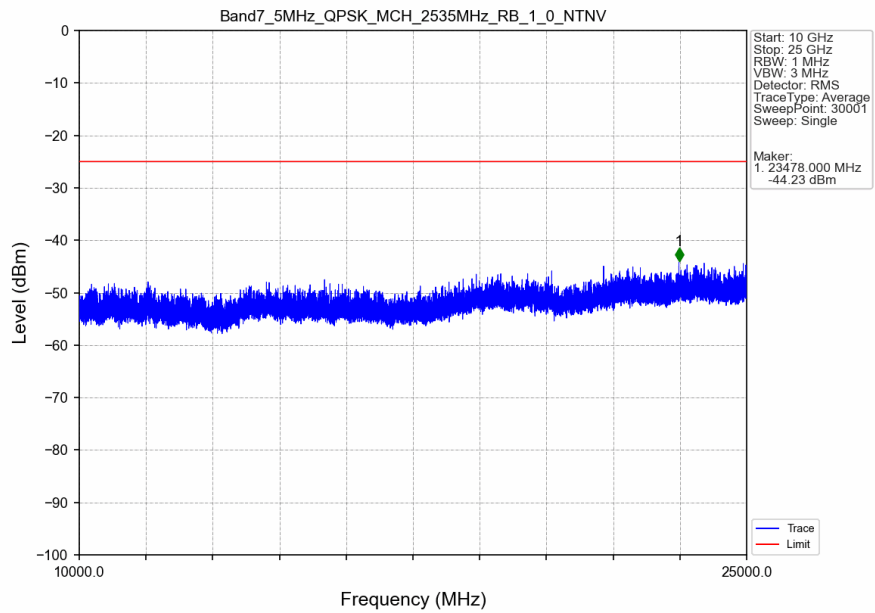
Band7 5MHz QPSK LCH 2502.5MHz RB 25 0 NTV



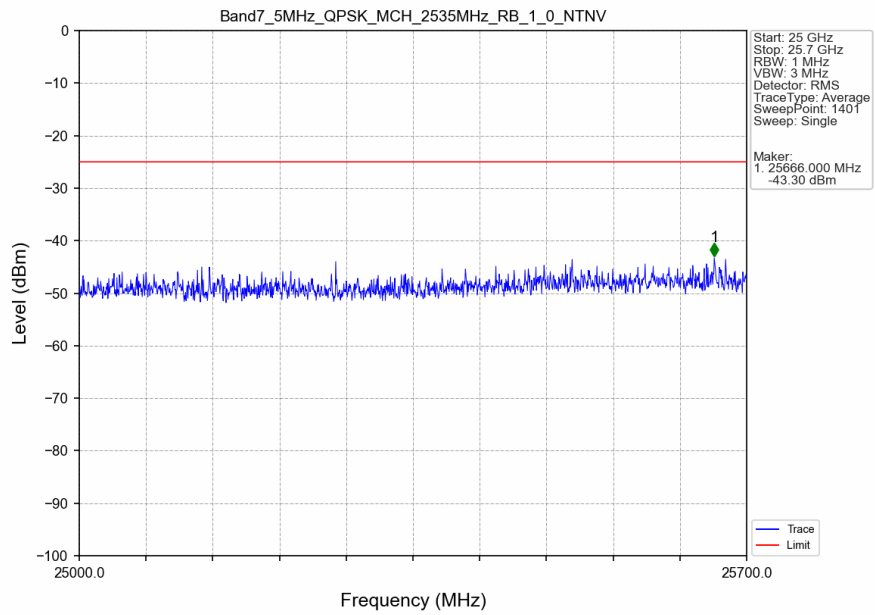
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTV



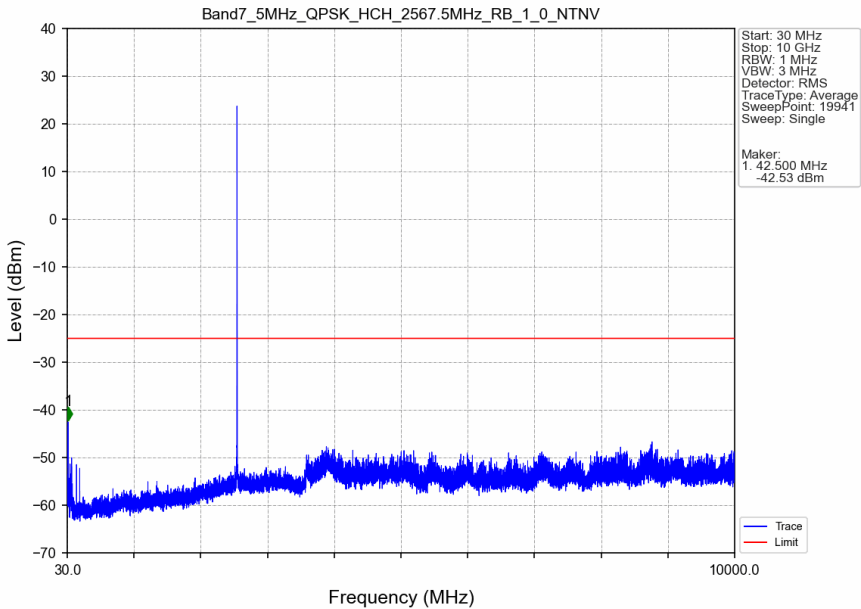
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTN



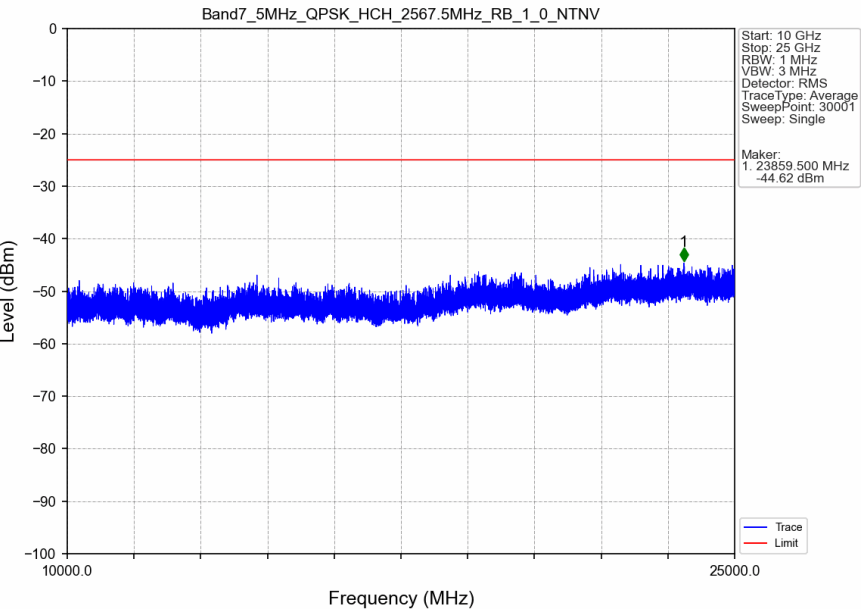
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTN



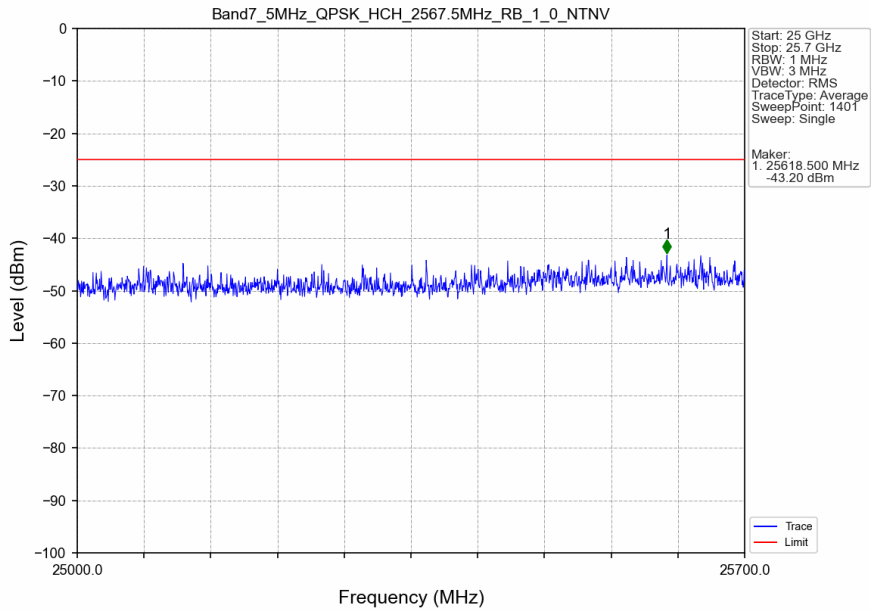
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTN



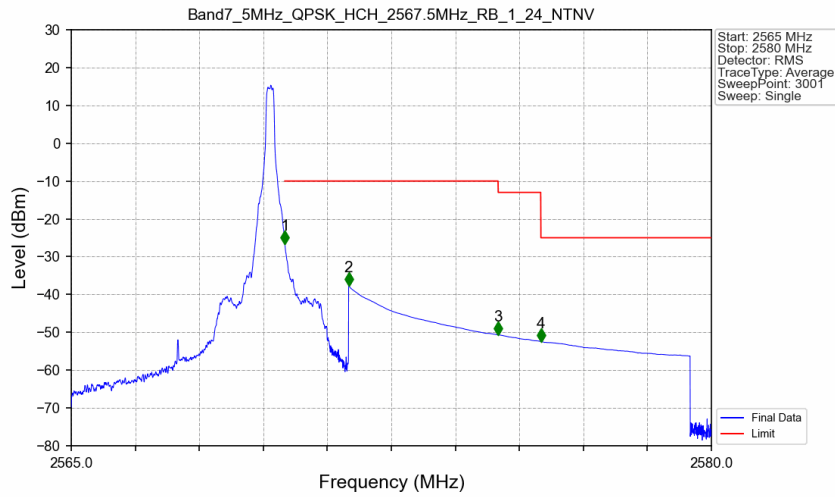
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTN



Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTNV

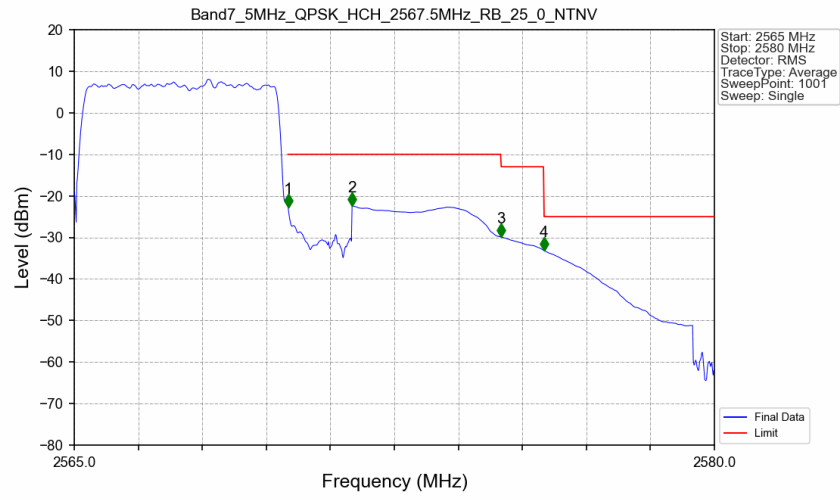


Band7_5MHz_QPSK_HCH_2567.5MHz_RB 1 24 NTNV



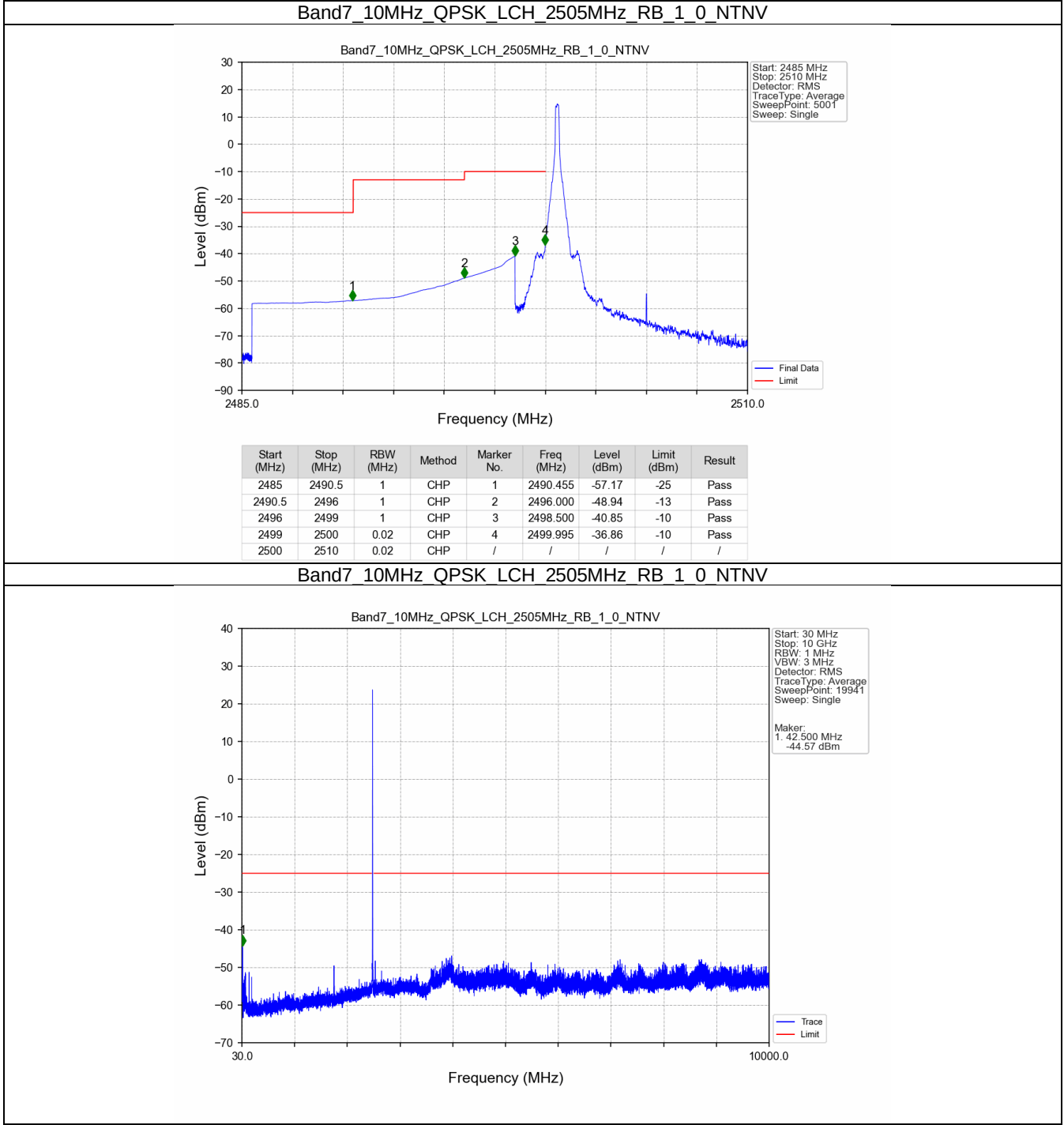
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-26.73	-10	Pass
2571	2575	1	CHP	2	2571.500	-37.67	-10	Pass
2575	2576	1	CHP	3	2575.005	-50.65	-13	Pass
2576	2580	1	CHP	4	2576.005	-52.41	-25	Pass

Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTN

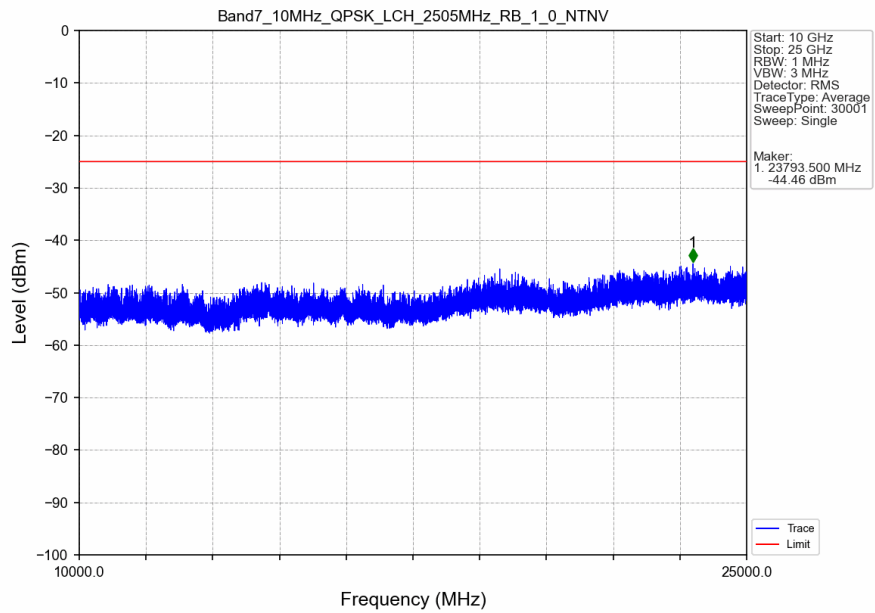


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2565	2570	0.106	CHP	/	/	/	/	/
2570	2571	0.106	CHP	1	2570.010	-22.77	-10	Pass
2571	2575	1	CHP	2	2571.510	-22.45	-10	Pass
2575	2576	1	CHP	3	2575.005	-29.90	-13	Pass
2576	2580	1	CHP	4	2576.010	-33.18	-25	Pass

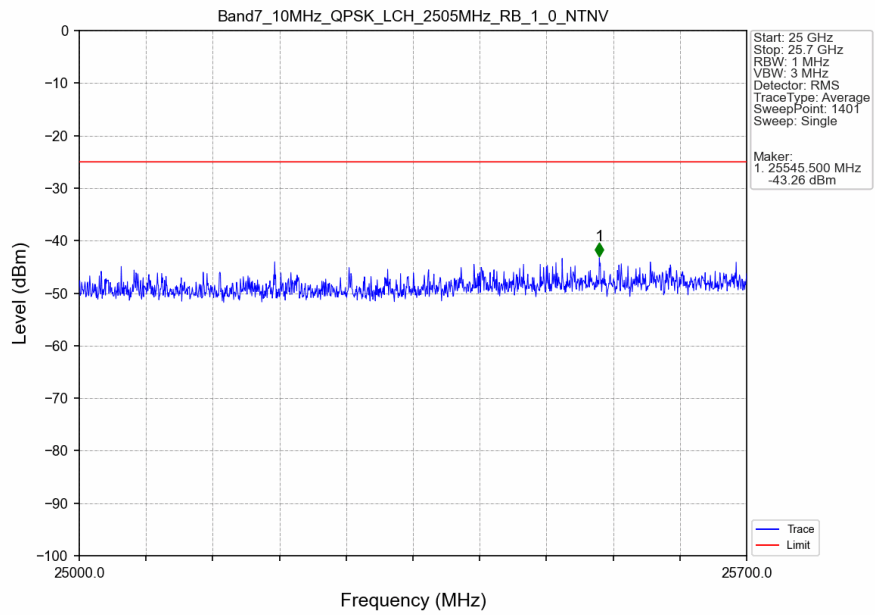
5.2.2 B7_10MHz



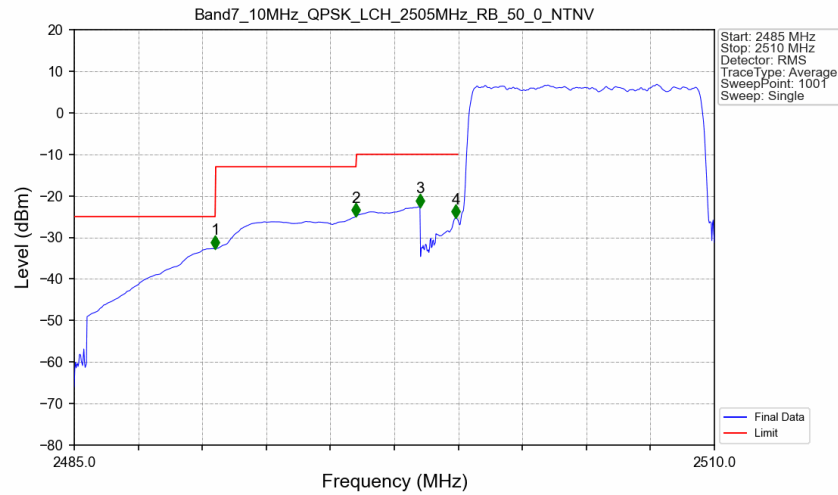
Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV



Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV

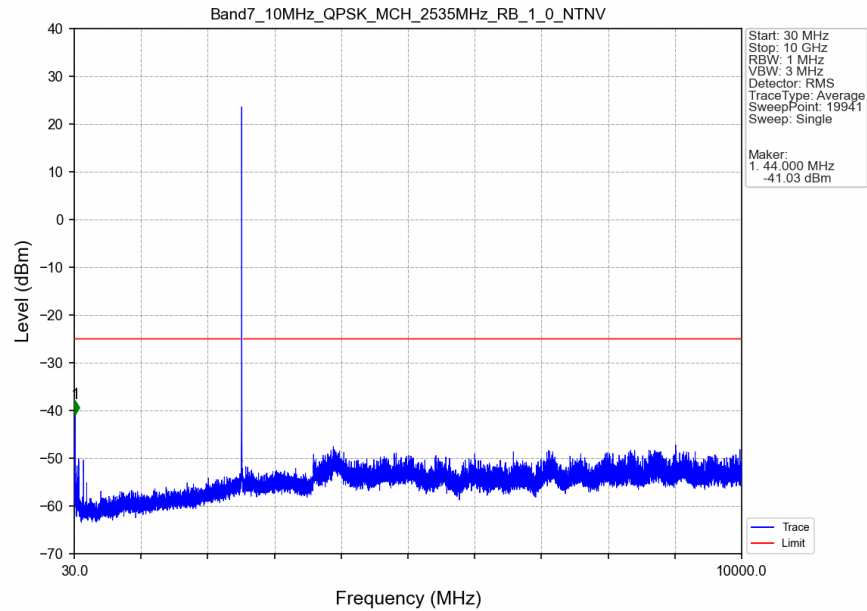


Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTN

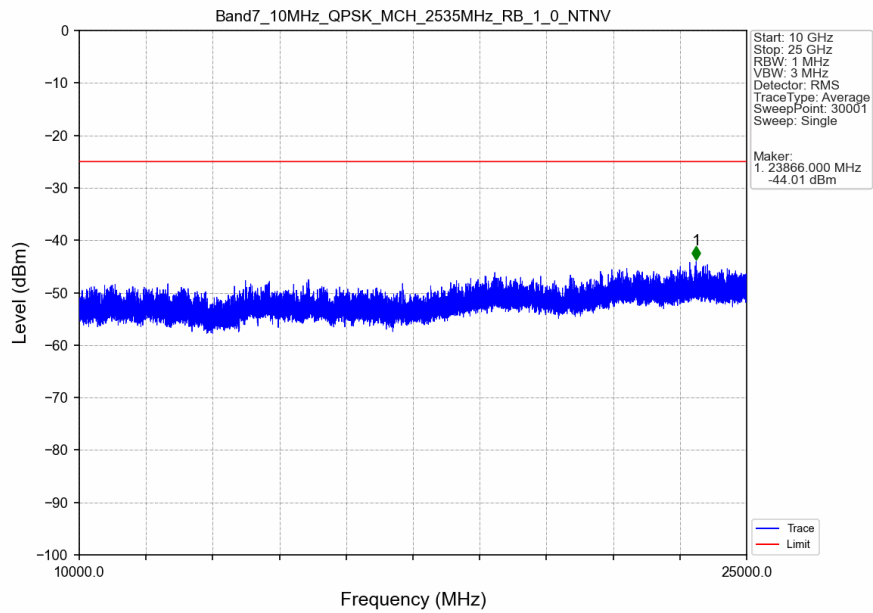


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.500	-32.68	-25	Pass
2490.5	2496	1	CHP	2	2496.000	-24.99	-13	Pass
2496	2499	1	CHP	3	2498.500	-22.66	-10	Pass
2499	2500	0.204	CHP	4	2499.900	-25.25	-10	Pass
2500	2510	0.204	CHP	/	/	/	/	/

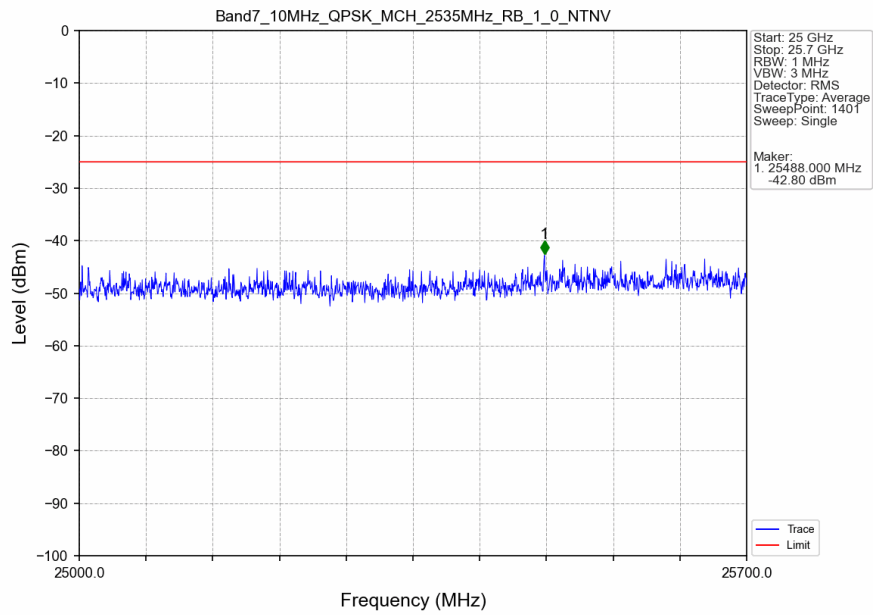
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



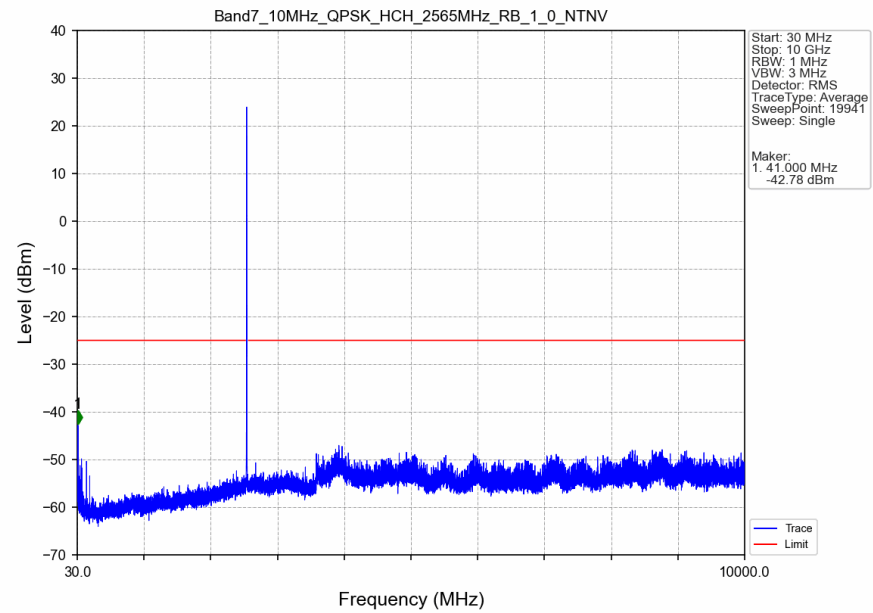
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



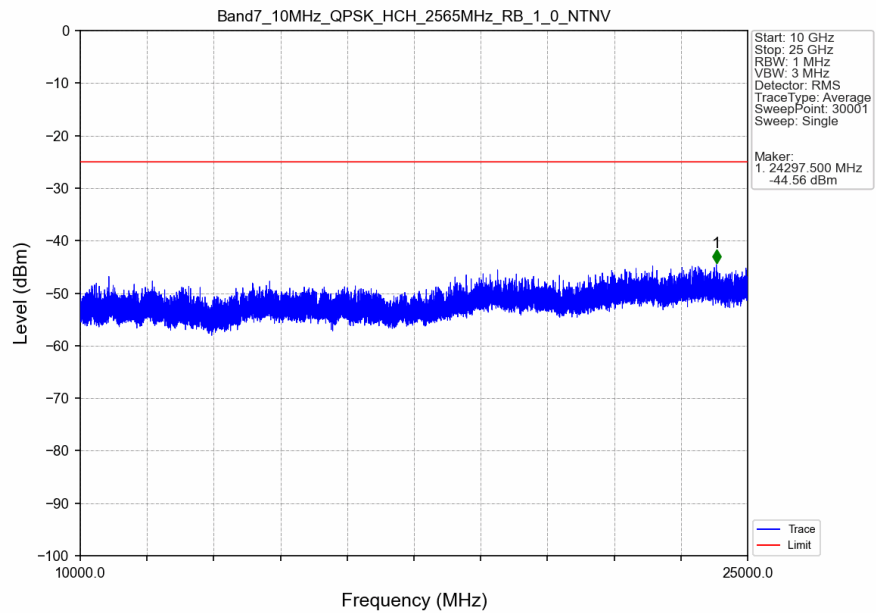
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



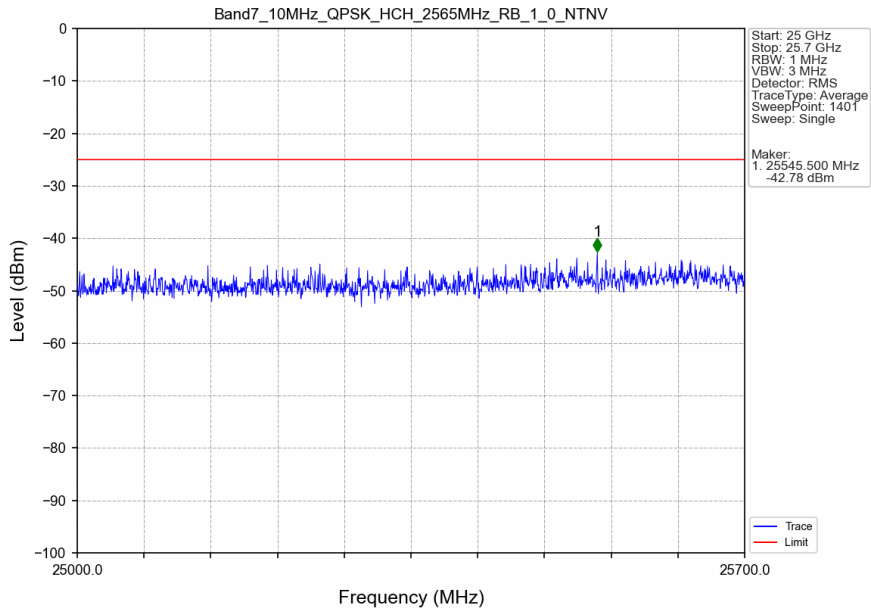
Band7_10MHz_QPSK_HCH_2565MHz_RB_1_0_NTNV



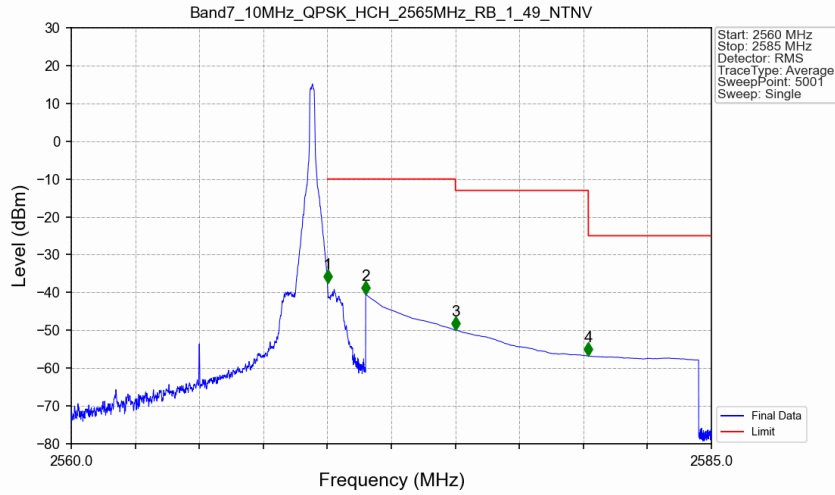
Band7_10MHz_QPSK_HCH_2565MHz_RB_1_0_NTNV



Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTN

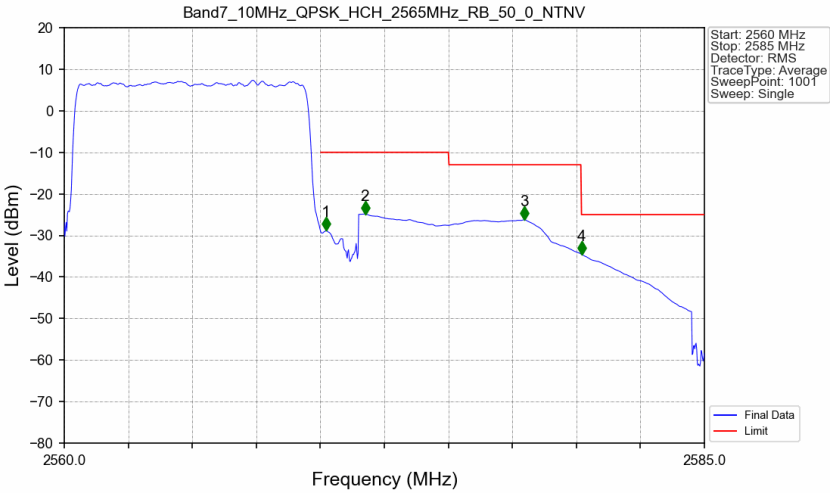


Band7 10MHz QPSK HCH 2565MHz RB 1 49 NTN



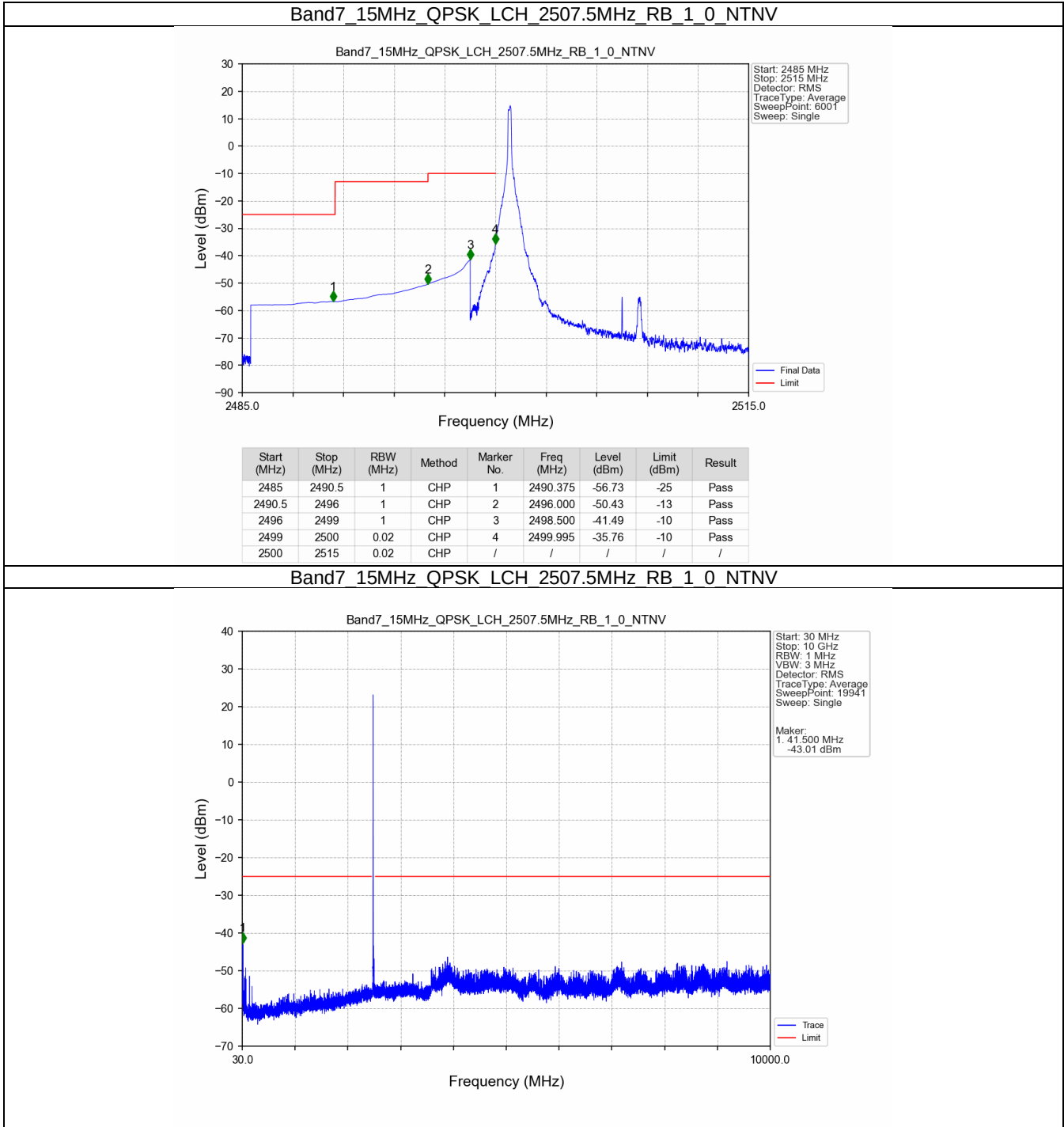
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2560	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-37.48	-10	Pass
2571	2575	1	CHP	2	2571.500	-40.43	-10	Pass
2575	2580.192	1	CHP	3	2575.005	-49.93	-13	Pass
2580.192	2585	1	CHP	4	2580.195	-56.76	-25	Pass

Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN

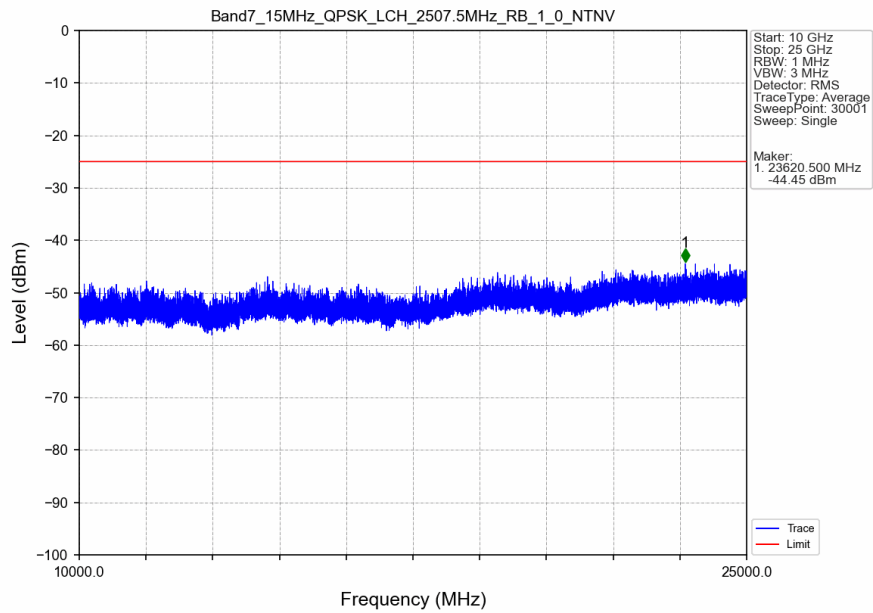


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2560	2570	0.204	CHP	/	/	/	/	/
2570	2571	0.204	CHP	1	2570.225	-28.84	-10	Pass
2571	2575	1	CHP	2	2571.750	-24.85	-10	Pass
2575	2580.192	1	CHP	3	2577.975	-26.24	-13	Pass
2580.192	2585	1	CHP	4	2580.200	-34.55	-25	Pass

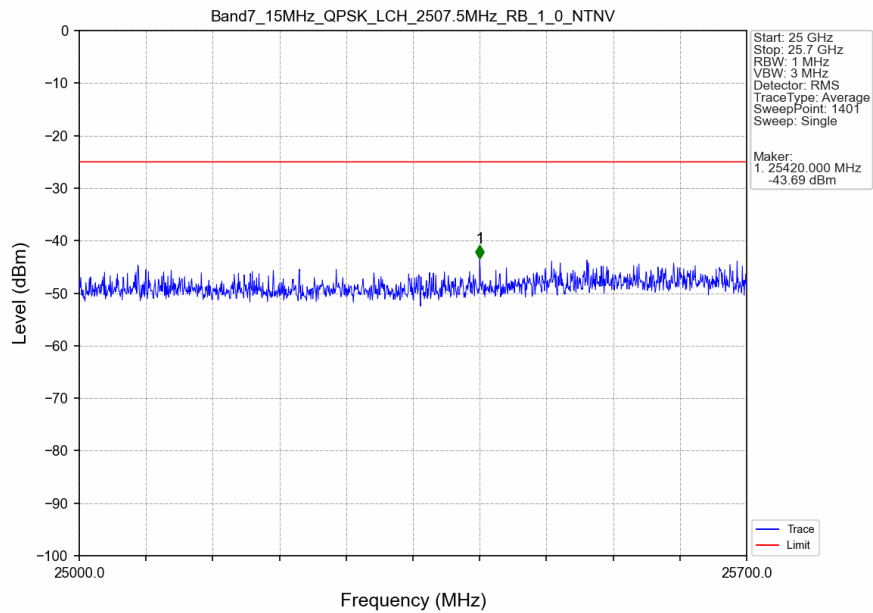
5.2.3 B7_15MHz



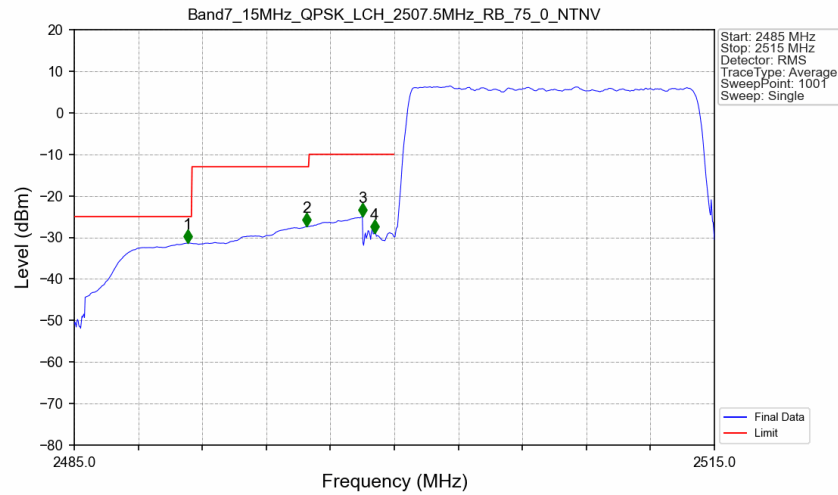
Band7 15MHz QPSK LCH 2507.5MHz RB 1 0 NTV



Band7 15MHz QPSK LCH 2507.5MHz RB 1 0 NTV

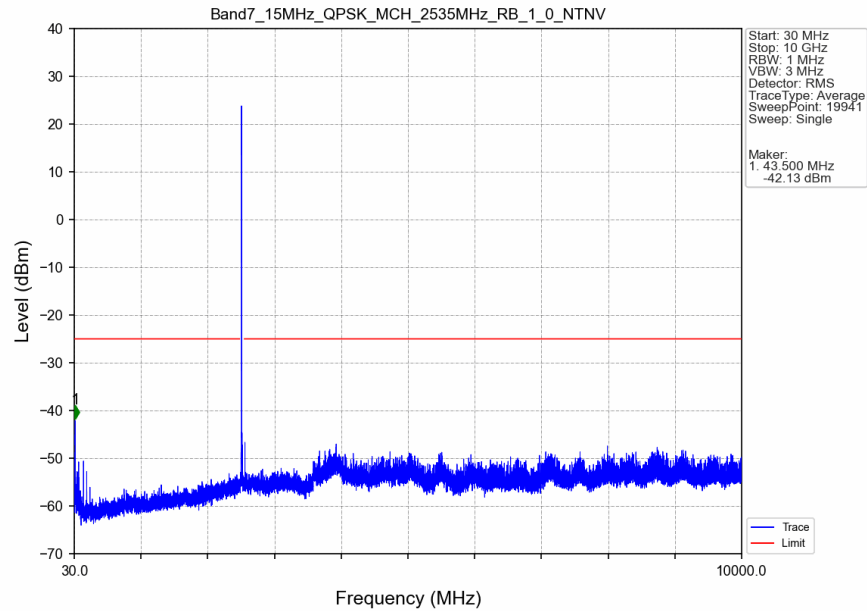


Band7_15MHz_QPSK_LCH_2507.5MHz_RB_75_0_NTNV

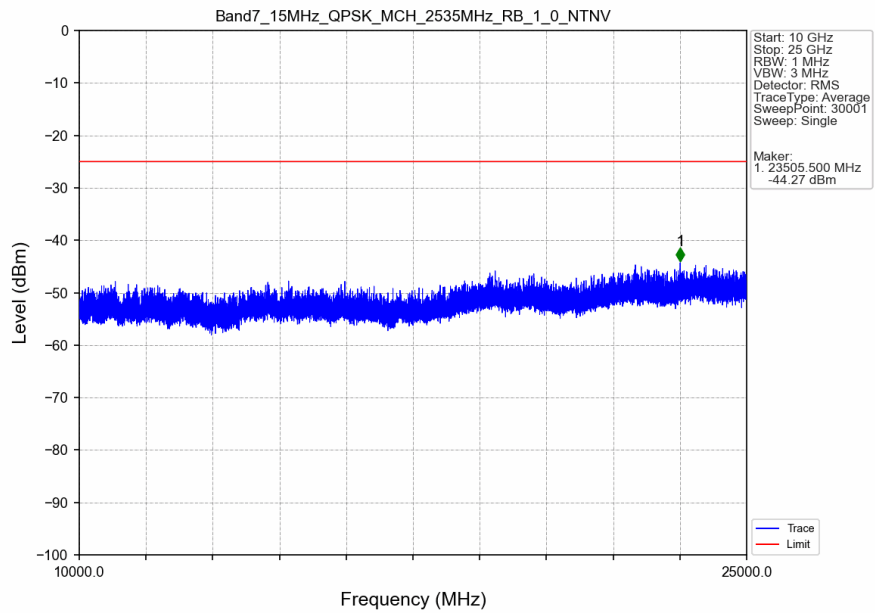


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.310	-31.37	-25	Pass
2490.5	2496	1	CHP	2	2495.890	-27.38	-13	Pass
2496	2499	1	CHP	3	2498.500	-24.95	-10	Pass
2499	2500	0.305	CHP	4	2499.070	-28.86	-10	Pass
2500	2515	0.305	CHP	/	/	/	/	/

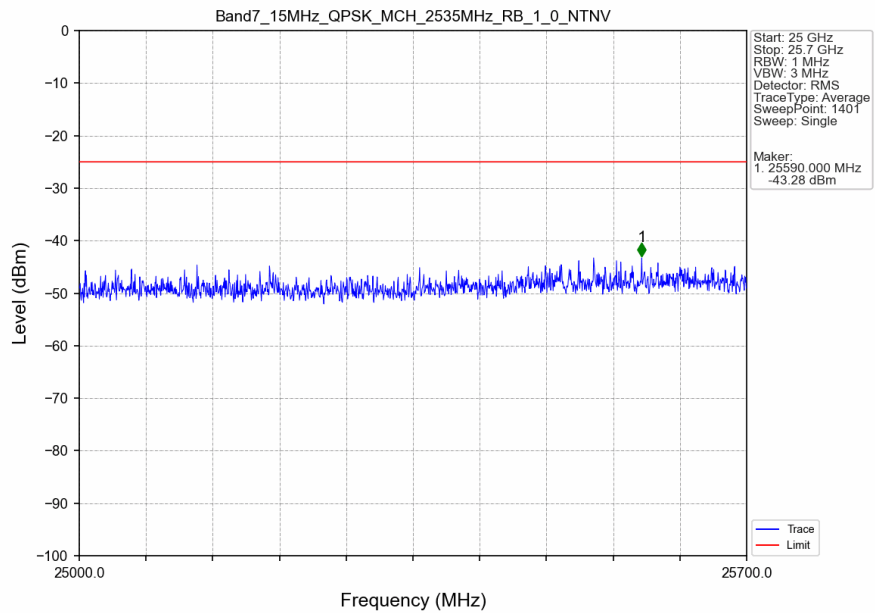
Band7_15MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



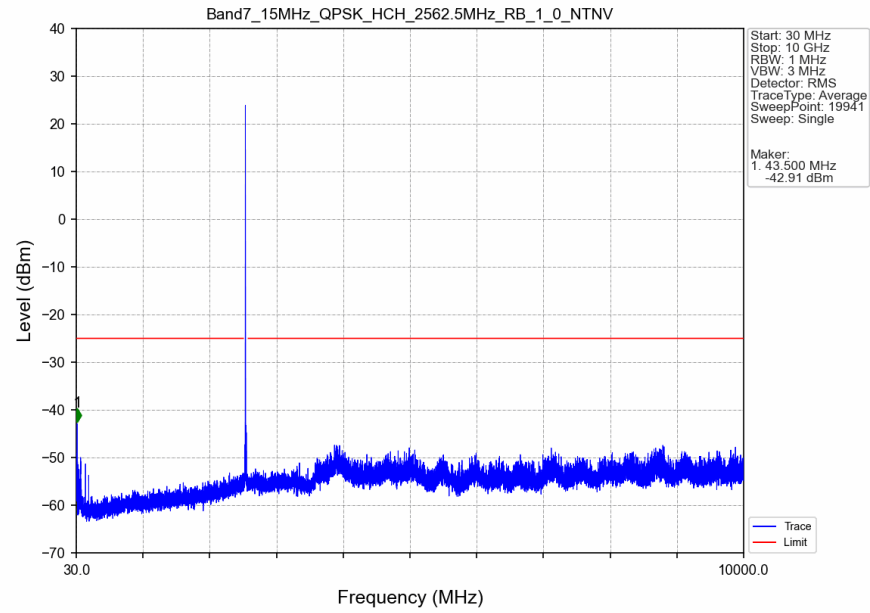
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTN



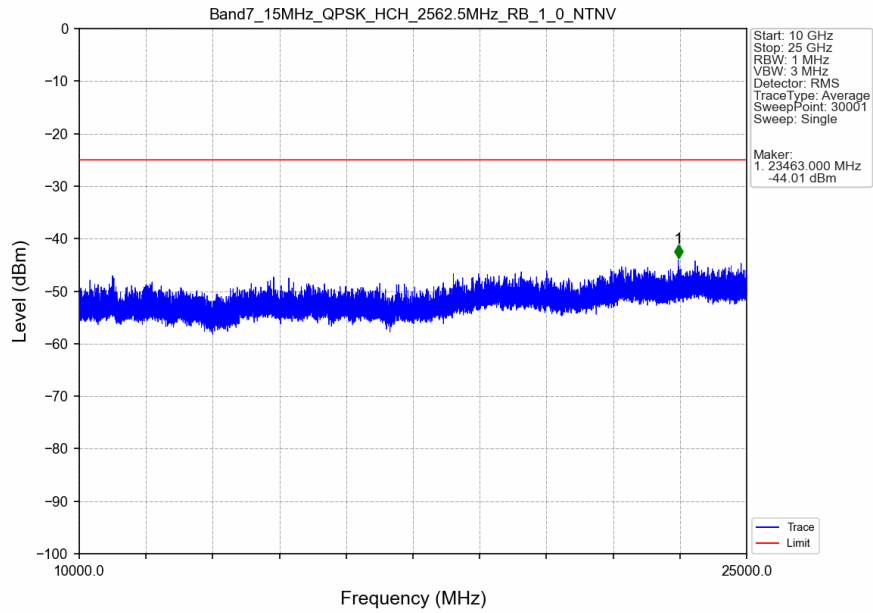
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTN



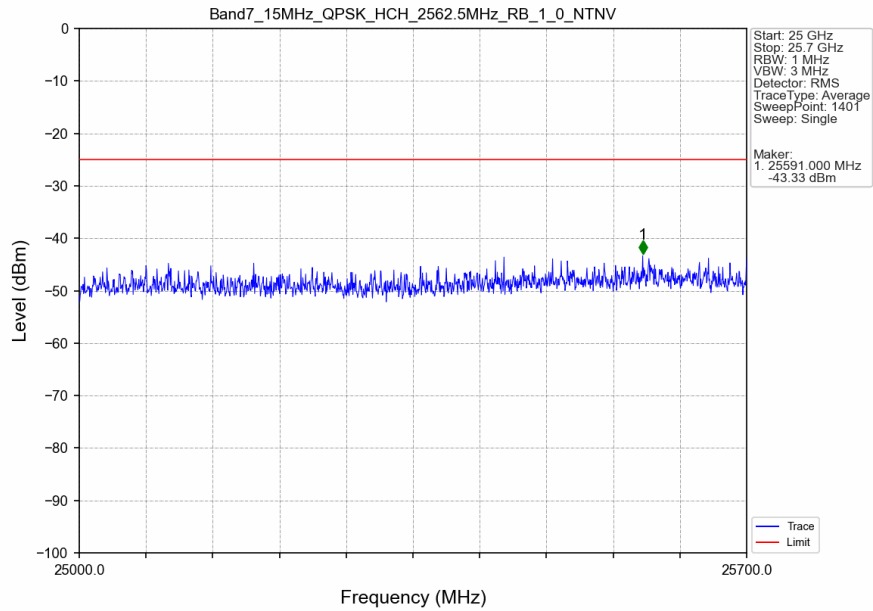
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



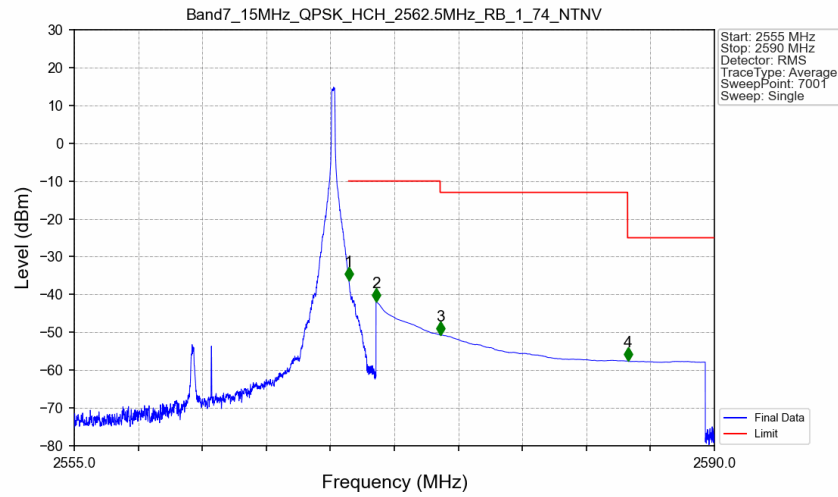
Band7_15MHz_QPSK_HCH_2562.5MHz_RB_1_0_NTNV



Band7 15MHz QPSK HCH 2562.5MHz RB 1 0 NTNV

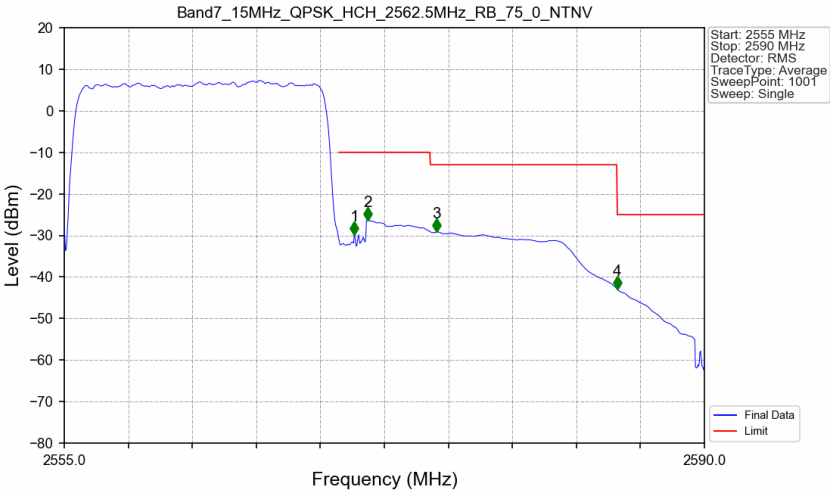


Band7 15MHz QPSK HCH 2562.5MHz RB 1 74 NTNV



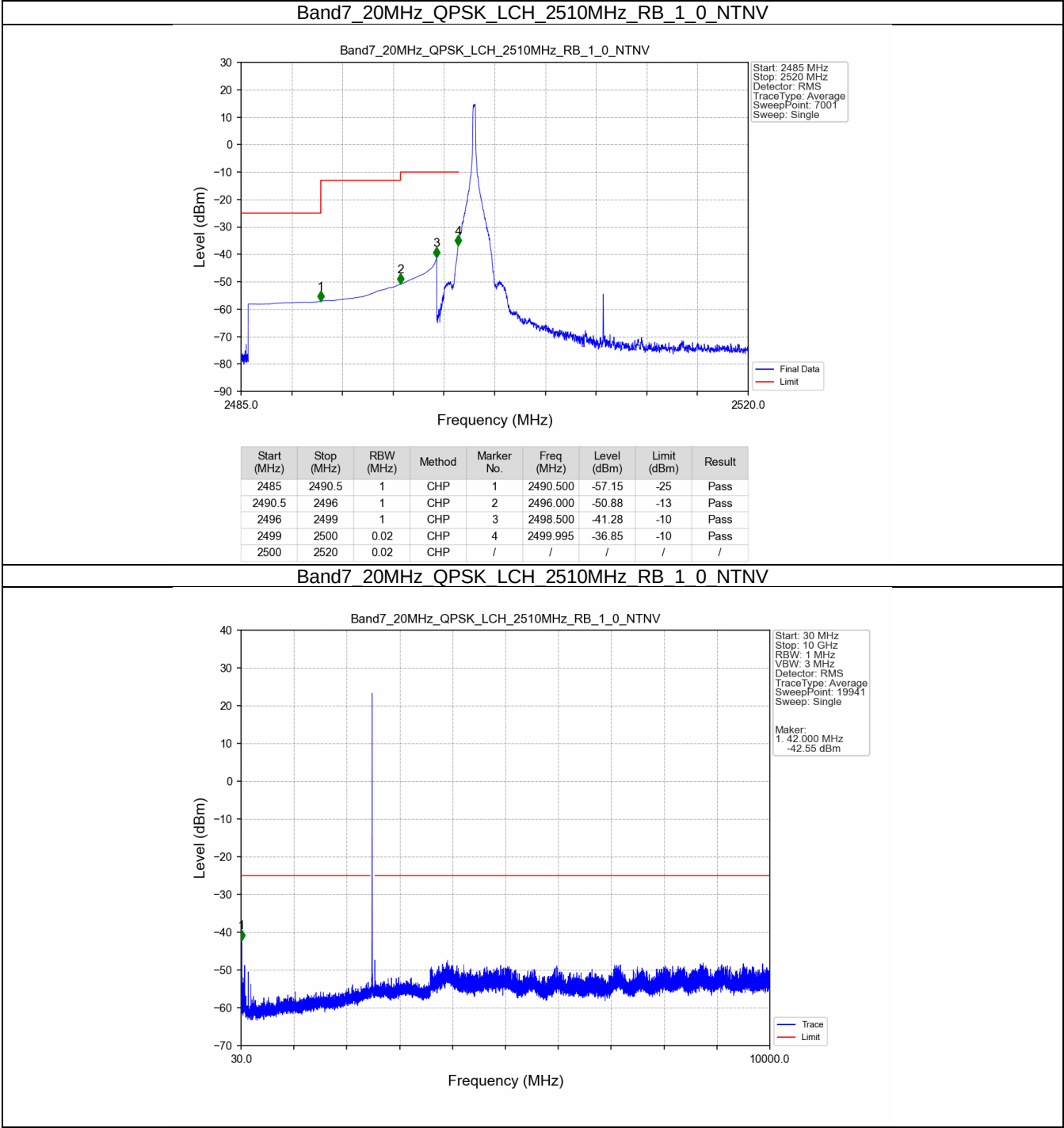
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-36.21	-10	Pass
2571	2575	1	CHP	2	2571.500	-41.84	-10	Pass
2575	2585.253	1	CHP	3	2575.005	-50.68	-13	Pass
2585.253	2590	1	CHP	4	2585.270	-57.59	-25	Pass

Band7_15MHz_QPSK_HCH_2562.5MHz_RB_75_0_NTNV

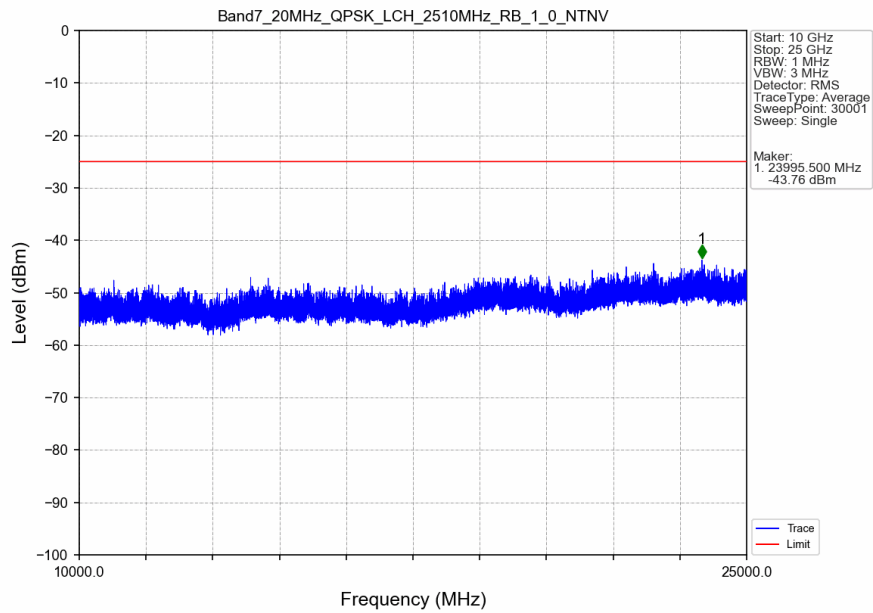


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2555	2570	0.304	CHP	/	/	/	/	/
2570	2571	0.304	CHP	1	2570.855	-29.82	-10	Pass
2571	2575	1	CHP	2	2571.590	-26.33	-10	Pass
2575	2585.217	1	CHP	3	2575.370	-29.13	-13	Pass
2585.217	2590	1	CHP	4	2585.240	-43.01	-25	Pass

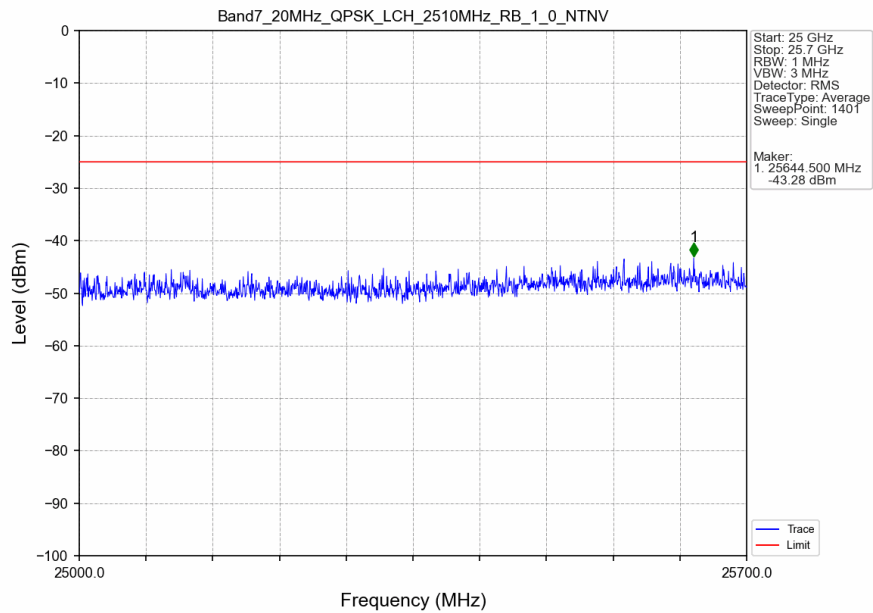
5.2.4 B7_20MHz



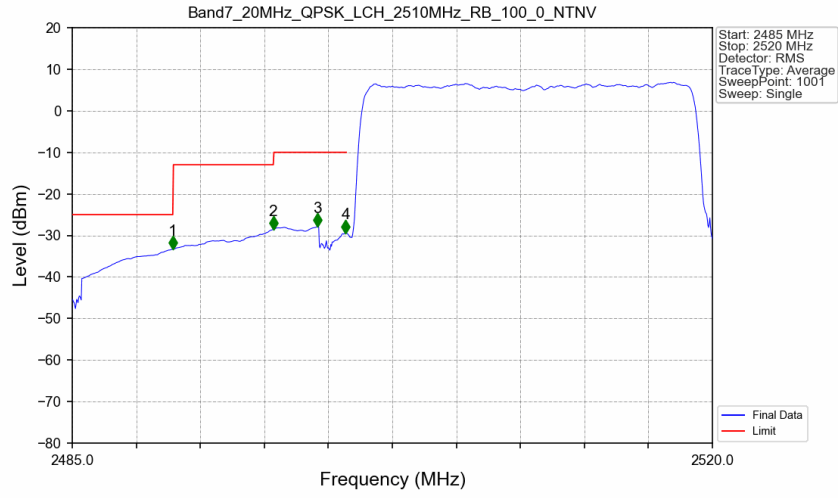
Band7 20MHz QPSK LCH 2510MHz RB 1 0 NTN



Band7 20MHz QPSK LCH 2510MHz RB 1 0 NTN

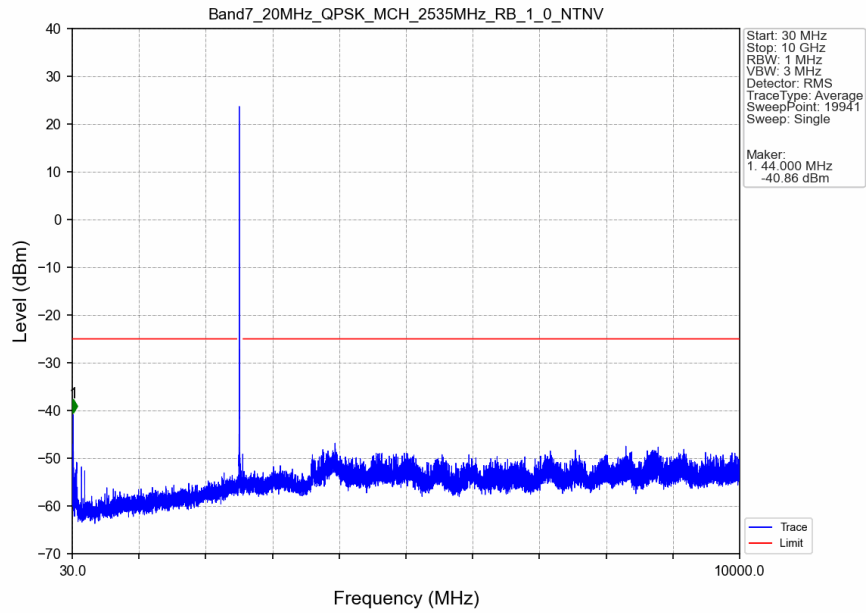


Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTV

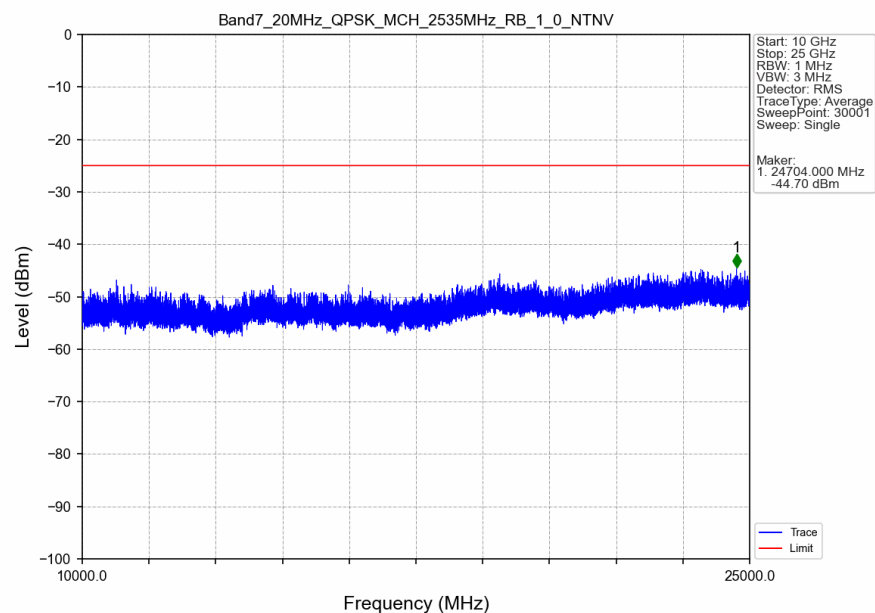


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2490.5	1	CHP	1	2490.495	-33.32	-25	Pass
2490.5	2496	1	CHP	2	2495.990	-28.50	-13	Pass
2496	2499	1	CHP	3	2498.405	-27.93	-10	Pass
2499	2500	0.401	CHP	4	2499.945	-29.40	-10	Pass
2500	2520	0.401	CHP	/	/	/	/	/

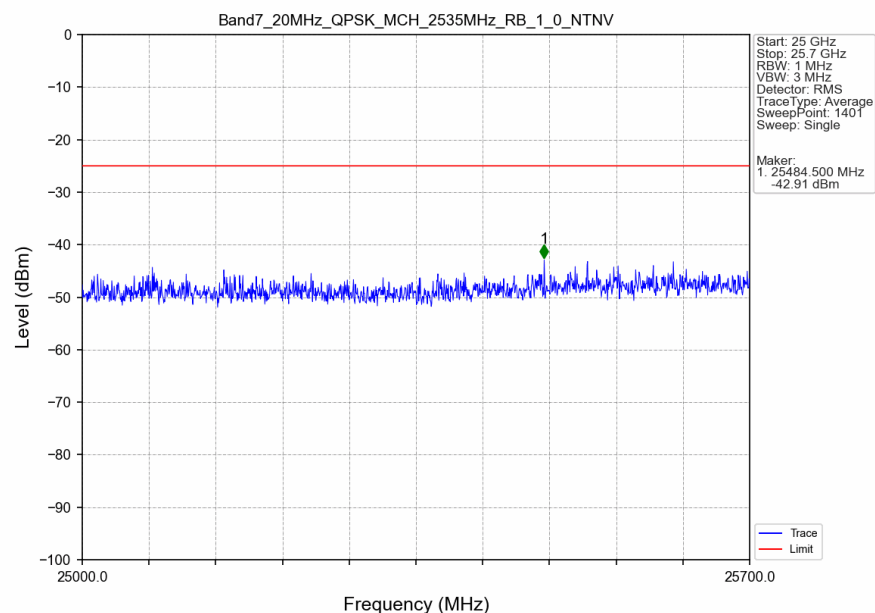
Band7 20MHz QPSK MCH 2535MHz RB 1 0 NTV



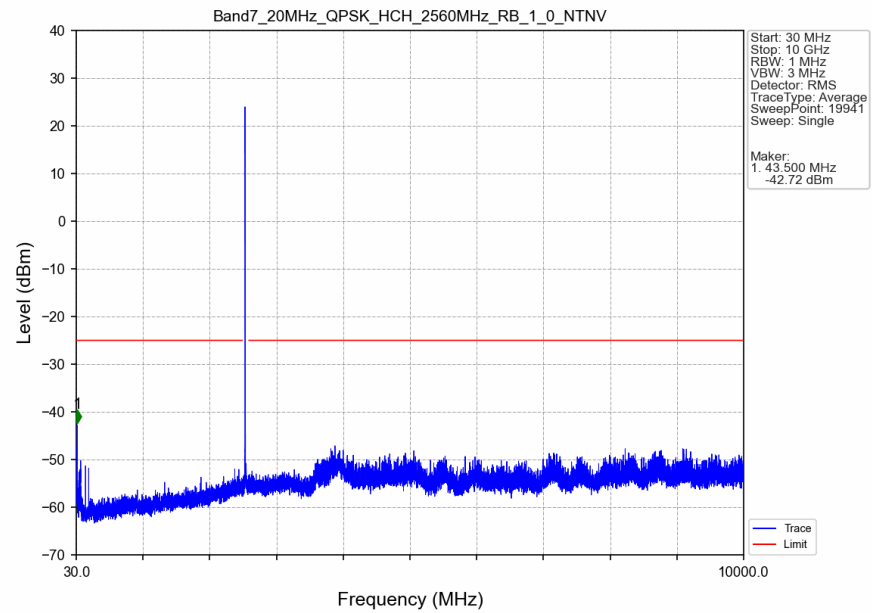
Band7 20MHz QPSK MCH 2535MHz RB 1 0 NTN



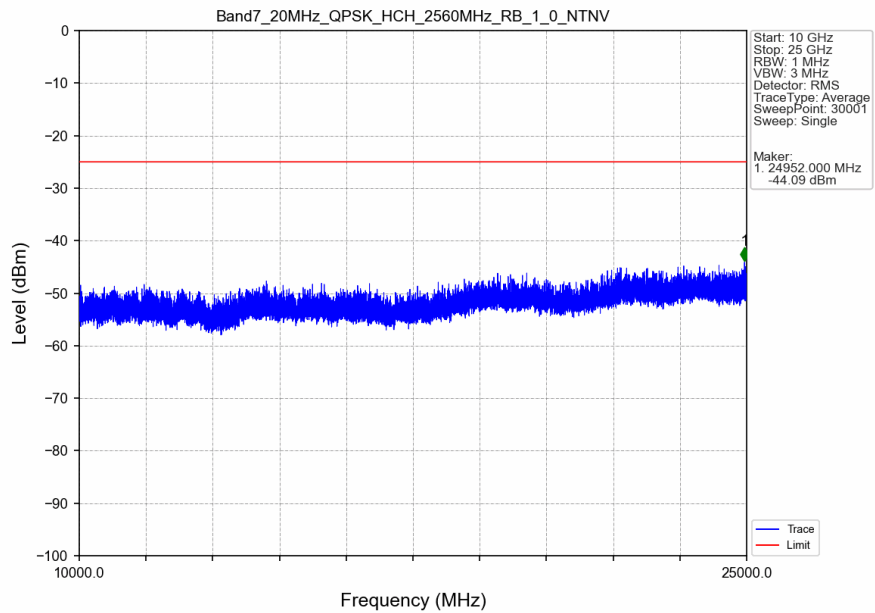
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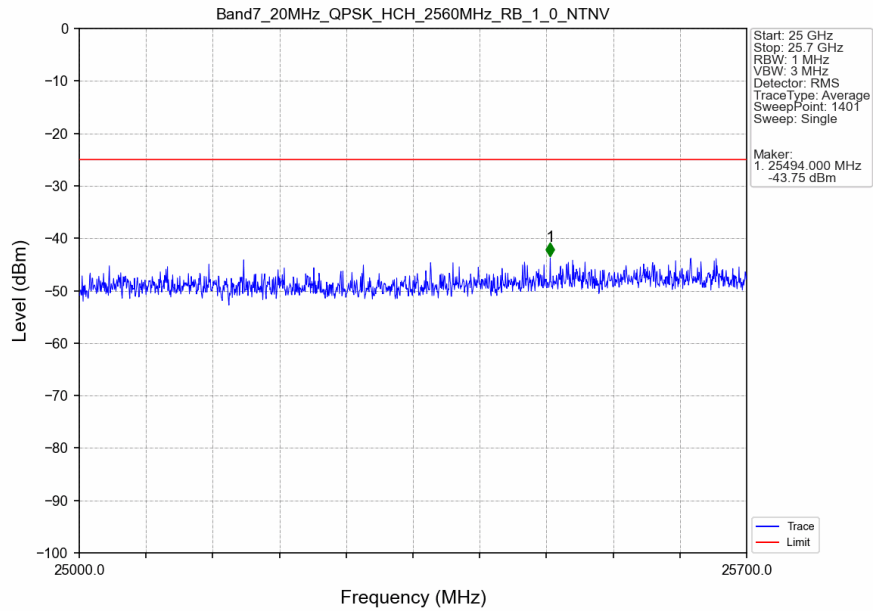
Band7_20MHz_QPSK_HCH_2560MHz_RB_1_0_NTNV



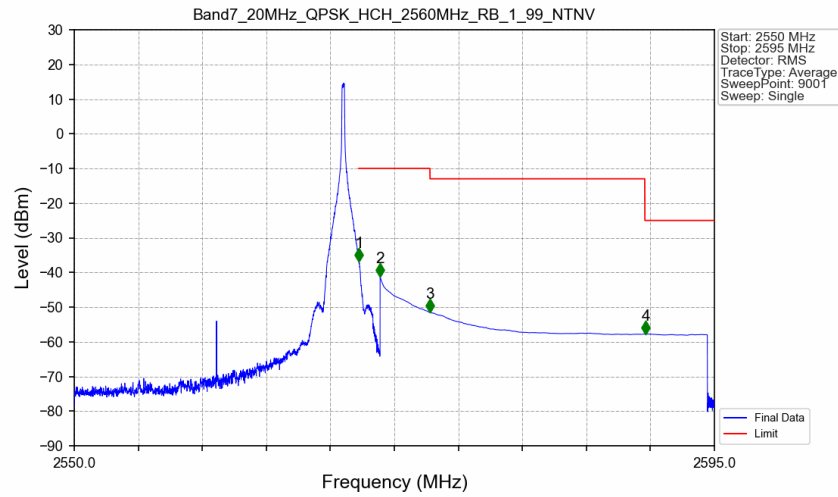
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Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTN

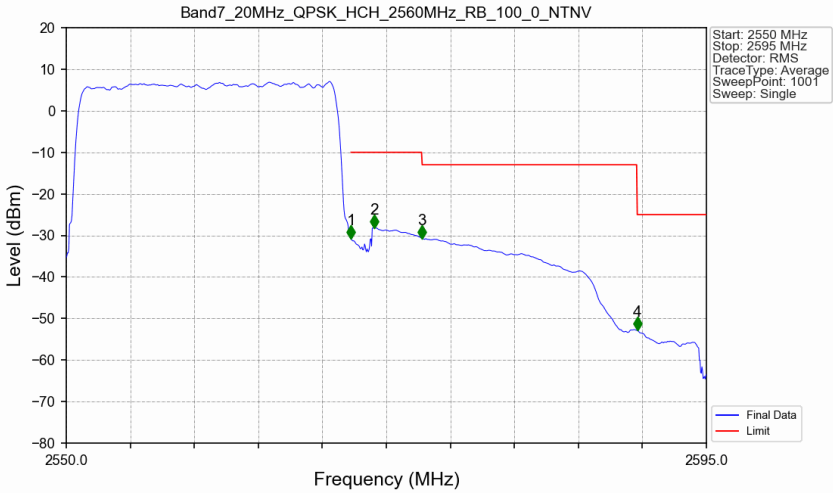


Band7 20MHz QPSK HCH 2560MHz RB 1 99 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.02	CHP	/	/	/	/	/
2570	2571	0.02	CHP	1	2570.005	-36.92	-10	Pass
2571	2575	1	CHP	2	2571.500	-41.24	-10	Pass
2575	2590.109	1	CHP	3	2575.010	-51.53	-13	Pass
2590.109	2595	1	CHP	4	2590.185	-57.75	-25	Pass

Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2550	2570	0.402	CHP	/	/	/	/	/
2570	2571	0.402	CHP	1	2570.025	-30.85	-10	Pass
2571	2575	1	CHP	2	2571.645	-28.14	-10	Pass
2575	2590.109	1	CHP	3	2575.020	-30.72	-13	Pass
2590.109	2595	1	CHP	4	2590.140	-52.88	-25	Pass

6. Field Strength of Spurious Radiation

LTE Band 7-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
5002.0	-62.5	-25	-37.5	-68.07	4.57	10.14	Horizontal	Pass
7503.0	-60.31	-25	-35.31	-67.11	4.94	11.74	Horizontal	Pass
10004.0	-56.58	-25	-31.58	-64.15	5.46	13.03	Horizontal	Pass
5002.0	-62.29	-25	-37.29	-67.86	4.57	10.14	Vertical	Pass
7503.0	-59.47	-25	-34.47	-66.27	4.94	11.74	Vertical	Pass
10004.0	-56.43	-25	-31.43	-64.0	5.46	13.03	Vertical	Pass

LTE Band 7-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
5052.0	-62.67	-25	-37.67	-68.25	4.59	10.17	Horizontal	Pass
7578.0	-59.73	-25	-34.73	-66.61	4.95	11.83	Horizontal	Pass
10104.0	-56.3	-25	-31.3	-63.87	5.48	13.05	Horizontal	Pass
5052.0	-63.02	-25	-38.02	-68.6	4.59	10.17	Vertical	Pass
7578.0	-60.06	-25	-35.06	-66.94	4.95	11.83	Vertical	Pass
10104.0	-56.56	-25	-31.56	-64.13	5.48	13.05	Vertical	Pass

LTE Band 7-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
5102.0	-63.25	-25	-38.25	-68.85	4.6	10.2	Horizontal	Pass
7653.0	-59.6	-25	-34.6	-66.57	4.95	11.92	Horizontal	Pass
10204.0	-56.79	-25	-31.79	-64.37	5.49	13.07	Horizontal	Pass
5102.0	-63.5	-25	-38.5	-69.1	4.6	10.2	Vertical	Pass
7653.0	-59.46	-25	-34.46	-66.43	4.95	11.92	Vertical	Pass
10204.0	-55.4	-25	-30.4	-62.98	5.49	13.07	Vertical	Pass