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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	L	1RB0	23.68	26.68	33	PASS
Band7	5MHz	QPSK	L	1RB12	23.36	26.36	33	PASS
Band7	5MHz	QPSK	L	1RB24	23.27	26.27	33	PASS
Band7	5MHz	QPSK	L	25RB0	22.28	25.28	33	PASS
Band7	5MHz	QPSK	M	1RB0	23.6	26.6	33	PASS
Band7	5MHz	QPSK	M	1RB12	23.62	26.62	33	PASS
Band7	5MHz	QPSK	M	1RB24	23.63	26.63	33	PASS
Band7	5MHz	QPSK	M	25RB0	22.38	25.38	33	PASS
Band7	5MHz	QPSK	H	1RB0	23.37	26.37	33	PASS
Band7	5MHz	QPSK	H	1RB12	22.92	25.92	33	PASS
Band7	5MHz	QPSK	H	1RB24	22.11	25.11	33	PASS
Band7	5MHz	QPSK	H	25RB0	22.2	25.2	33	PASS
Band7	5MHz	16QAM	L	1RB0	22.65	25.65	33	PASS
Band7	5MHz	16QAM	L	1RB12	22.6	25.6	33	PASS
Band7	5MHz	16QAM	L	1RB24	22.78	25.78	33	PASS
Band7	5MHz	16QAM	L	25RB0	21.4	24.4	33	PASS
Band7	5MHz	16QAM	M	1RB0	22.67	25.67	33	PASS
Band7	5MHz	16QAM	M	1RB12	22.87	25.87	33	PASS
Band7	5MHz	16QAM	M	1RB24	22.74	25.74	33	PASS
Band7	5MHz	16QAM	M	25RB0	21.7	24.7	33	PASS
Band7	5MHz	16QAM	H	1RB0	22.7	25.7	33	PASS
Band7	5MHz	16QAM	H	1RB12	22.26	25.26	33	PASS

Band7	5MHz	16QAM	H	1RB24	21.66	24.66	33	PASS
Band7	5MHz	16QAM	H	25RB0	21.37	24.37	33	PASS
Band7	5MHz	64QAM	L	1RB0	21.88	24.88	33	PASS
Band7	5MHz	64QAM	L	1RB12	21.69	24.69	33	PASS
Band7	5MHz	64QAM	L	1RB24	21.63	24.63	33	PASS
Band7	5MHz	64QAM	L	25RB0	20.5	23.5	33	PASS
Band7	5MHz	64QAM	M	1RB0	21.69	24.69	33	PASS
Band7	5MHz	64QAM	M	1RB12	21.95	24.95	33	PASS
Band7	5MHz	64QAM	M	1RB24	21.72	24.72	33	PASS
Band7	5MHz	64QAM	M	25RB0	20.51	23.51	33	PASS
Band7	5MHz	64QAM	H	1RB0	21.88	24.88	33	PASS
Band7	5MHz	64QAM	H	1RB12	21.43	24.43	33	PASS
Band7	5MHz	64QAM	H	1RB24	20.97	23.97	33	PASS
Band7	5MHz	64QAM	H	25RB0	20.71	23.71	33	PASS
Band7	10MHz	QPSK	L	1RB0	23.66	26.66	33	PASS
Band7	10MHz	QPSK	L	1RB24	23.46	26.46	33	PASS
Band7	10MHz	QPSK	L	1RB49	23.4	26.4	33	PASS
Band7	10MHz	QPSK	L	50RB0	22.47	25.47	33	PASS
Band7	10MHz	QPSK	M	1RB0	23.34	26.34	33	PASS
Band7	10MHz	QPSK	M	1RB24	23.63	26.63	33	PASS
Band7	10MHz	QPSK	M	1RB49	23.26	26.26	33	PASS
Band7	10MHz	QPSK	M	50RB0	22.63	25.63	33	PASS
Band7	10MHz	QPSK	H	1RB0	23.33	26.33	33	PASS
Band7	10MHz	QPSK	H	1RB24	23.49	26.49	33	PASS
Band7	10MHz	QPSK	H	1RB49	22.28	25.28	33	PASS

Band7	10MHz	QPSK	H	50RB0	22.51	25.51	33	PASS
Band7	10MHz	16QAM	L	1RB0	22.61	25.61	33	PASS
Band7	10MHz	16QAM	L	1RB24	22.54	25.54	33	PASS
Band7	10MHz	16QAM	L	1RB49	22.92	25.92	33	PASS
Band7	10MHz	16QAM	L	50RB0	21.76	24.76	33	PASS
Band7	10MHz	16QAM	M	1RB0	22.72	25.72	33	PASS
Band7	10MHz	16QAM	M	1RB24	23.11	26.11	33	PASS
Band7	10MHz	16QAM	M	1RB49	22.84	25.84	33	PASS
Band7	10MHz	16QAM	M	50RB0	21.57	24.57	33	PASS
Band7	10MHz	16QAM	H	1RB0	22.76	25.76	33	PASS
Band7	10MHz	16QAM	H	1RB24	22.71	25.71	33	PASS
Band7	10MHz	16QAM	H	1RB49	21.71	24.71	33	PASS
Band7	10MHz	16QAM	H	50RB0	21.74	24.74	33	PASS
Band7	10MHz	64QAM	L	1RB0	21.62	24.62	33	PASS
Band7	10MHz	64QAM	L	1RB24	21.75	24.75	33	PASS
Band7	10MHz	64QAM	L	1RB49	21.63	24.63	33	PASS
Band7	10MHz	64QAM	L	50RB0	20.8	23.8	33	PASS
Band7	10MHz	64QAM	M	1RB0	21.94	24.94	33	PASS
Band7	10MHz	64QAM	M	1RB24	22.12	25.12	33	PASS
Band7	10MHz	64QAM	M	1RB49	21.69	24.69	33	PASS
Band7	10MHz	64QAM	M	50RB0	20.61	23.61	33	PASS
Band7	10MHz	64QAM	H	1RB0	21.87	24.87	33	PASS
Band7	10MHz	64QAM	H	1RB24	22.08	25.08	33	PASS
Band7	10MHz	64QAM	H	1RB49	20.98	23.98	33	PASS
Band7	10MHz	64QAM	H	50RB0	20.75	23.75	33	PASS

Band7	15MHz	QPSK	L	1RB0	23.26	26.26	33	PASS
Band7	15MHz	QPSK	L	1RB38	23.42	26.42	33	PASS
Band7	15MHz	QPSK	L	1RB74	23.49	26.49	33	PASS
Band7	15MHz	QPSK	L	75RB0	22.49	25.49	33	PASS
Band7	15MHz	QPSK	M	1RB0	23.27	26.27	33	PASS
Band7	15MHz	QPSK	M	1RB38	23.37	26.37	33	PASS
Band7	15MHz	QPSK	M	1RB74	23.34	26.34	33	PASS
Band7	15MHz	QPSK	M	75RB0	22.45	25.45	33	PASS
Band7	15MHz	QPSK	H	1RB0	23.28	26.28	33	PASS
Band7	15MHz	QPSK	H	1RB38	23.5	26.5	33	PASS
Band7	15MHz	QPSK	H	1RB74	23.01	26.01	33	PASS
Band7	15MHz	QPSK	H	75RB0	22.43	25.43	33	PASS
Band7	15MHz	16QAM	L	1RB0	22.49	25.49	33	PASS
Band7	15MHz	16QAM	L	1RB38	22.73	25.73	33	PASS
Band7	15MHz	16QAM	L	1RB74	22.6	25.6	33	PASS
Band7	15MHz	16QAM	L	75RB0	21.47	24.47	33	PASS
Band7	15MHz	16QAM	M	1RB0	22.54	25.54	33	PASS
Band7	15MHz	16QAM	M	1RB38	22.7	25.7	33	PASS
Band7	15MHz	16QAM	M	1RB74	22.51	25.51	33	PASS
Band7	15MHz	16QAM	M	75RB0	21.3	24.3	33	PASS
Band7	15MHz	16QAM	H	1RB0	22.38	25.38	33	PASS
Band7	15MHz	16QAM	H	1RB38	22.42	25.42	33	PASS
Band7	15MHz	16QAM	H	1RB74	22.17	25.17	33	PASS
Band7	15MHz	16QAM	H	75RB0	21.6	24.6	33	PASS
Band7	15MHz	64QAM	L	1RB0	21.46	24.46	33	PASS

Band7	15MHz	64QAM	L	1RB38	21.78	24.78	33	PASS
Band7	15MHz	64QAM	L	1RB74	21.36	24.36	33	PASS
Band7	15MHz	64QAM	L	75RB0	20.56	23.56	33	PASS
Band7	15MHz	64QAM	M	1RB0	21.47	24.47	33	PASS
Band7	15MHz	64QAM	M	1RB38	21.84	24.84	33	PASS
Band7	15MHz	64QAM	M	1RB74	21.56	24.56	33	PASS
Band7	15MHz	64QAM	M	75RB0	20.59	23.59	33	PASS
Band7	15MHz	64QAM	H	1RB0	21.39	24.39	33	PASS
Band7	15MHz	64QAM	H	1RB38	21.55	24.55	33	PASS
Band7	15MHz	64QAM	H	1RB74	21.49	24.49	33	PASS
Band7	15MHz	64QAM	H	75RB0	20.63	23.63	33	PASS
Band7	20MHz	QPSK	L	1RB0	23.27	26.27	33	PASS
Band7	20MHz	QPSK	L	1RB49	23.42	26.42	33	PASS
Band7	20MHz	QPSK	L	1RB99	23.08	26.08	33	PASS
Band7	20MHz	QPSK	L	100RB0	22.49	25.49	33	PASS
Band7	20MHz	QPSK	M	1RB0	23.43	26.43	33	PASS
Band7	20MHz	QPSK	M	1RB49	23.33	26.33	33	PASS
Band7	20MHz	QPSK	M	1RB99	23.35	26.35	33	PASS
Band7	20MHz	QPSK	M	100RB0	22.7	25.7	33	PASS
Band7	20MHz	QPSK	H	1RB0	23.3	26.3	33	PASS
Band7	20MHz	QPSK	H	1RB49	23.28	26.28	33	PASS
Band7	20MHz	QPSK	H	1RB99	22.55	25.55	33	PASS
Band7	20MHz	QPSK	H	100RB0	22.55	25.55	33	PASS
Band7	20MHz	16QAM	L	1RB0	22.62	25.62	33	PASS
Band7	20MHz	16QAM	L	1RB49	22.61	25.61	33	PASS

Band7	20MHz	16QAM	L	1RB99	22.85	25.85	33	PASS
Band7	20MHz	16QAM	L	100RB0	21.38	24.38	33	PASS
Band7	20MHz	16QAM	M	1RB0	22.48	25.48	33	PASS
Band7	20MHz	16QAM	M	1RB49	22.41	25.41	33	PASS
Band7	20MHz	16QAM	M	1RB99	22.9	25.9	33	PASS
Band7	20MHz	16QAM	M	100RB0	21.26	24.26	33	PASS
Band7	20MHz	16QAM	H	1RB0	22.3	25.3	33	PASS
Band7	20MHz	16QAM	H	1RB49	22.49	25.49	33	PASS
Band7	20MHz	16QAM	H	1RB99	21.82	24.82	33	PASS
Band7	20MHz	16QAM	H	100RB0	21.35	24.35	33	PASS
Band7	20MHz	64QAM	L	1RB0	21.58	24.58	33	PASS
Band7	20MHz	64QAM	L	1RB49	21.85	24.85	33	PASS
Band7	20MHz	64QAM	L	1RB99	21.61	24.61	33	PASS
Band7	20MHz	64QAM	L	100RB0	20.49	23.49	33	PASS
Band7	20MHz	64QAM	M	1RB0	21.71	24.71	33	PASS
Band7	20MHz	64QAM	M	1RB49	22.03	25.03	33	PASS
Band7	20MHz	64QAM	M	1RB99	21.37	24.37	33	PASS
Band7	20MHz	64QAM	M	100RB0	20.62	23.62	33	PASS
Band7	20MHz	64QAM	H	1RB0	21.39	24.39	33	PASS
Band7	20MHz	64QAM	H	1RB49	21.7	24.7	33	PASS
Band7	20MHz	64QAM	H	1RB99	21.3	24.3	33	PASS
Band7	20MHz	64QAM	H	100RB0	20.5	23.5	33	PASS

2. Frequency Stability

2.1.4 B7_20MHz

Band: 7 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2510	100	0	20	3.27	-0.872	-0.0003	-2.5 to 2.5	Pass
					3.85	0.092	0.0000	-2.5 to 2.5	Pass
					4.43	1.097	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.428	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.092	0.0000	-2.5 to 2.5	Pass
				-10	3.85	0.142	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.232	0.0001	-2.5 to 2.5	Pass
				10	3.85	-1.447	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.941	-0.0004	-2.5 to 2.5	Pass
				40	3.85	1.209	0.0005	-2.5 to 2.5	Pass
				50	3.85	1.717	0.0007	-2.5 to 2.5	Pass
	2535	100	0	20	3.27	-0.902	-0.0004	-2.5 to 2.5	Pass
					3.85	-0.864	-0.0003	-2.5 to 2.5	Pass
					4.43	-2.206	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.247	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-2.491	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.283	0.0005	-2.5 to 2.5	Pass
				0	3.85	0.785	0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.174	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.405	-0.0006	-2.5 to 2.5	Pass
				40	3.85	0.279	0.0001	-2.5 to 2.5	Pass
				50	3.85	0.612	0.0002	-2.5 to 2.5	Pass
	2560	100	0	20	3.27	-0.894	-0.0003	-2.5 to 2.5	Pass
					3.85	-2.031	-0.0008	-2.5 to 2.5	Pass
					4.43	-1.467	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	-2.492	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-2.454	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-2.270	-0.0009	-2.5 to 2.5	Pass
				0	3.85	-0.120	0.0000	-2.5 to 2.5	Pass
				10	3.85	-2.936	-0.0011	-2.5 to 2.5	Pass
				30	3.85	0.696	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.527	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.703	-0.0003	-2.5 to 2.5	Pass

$|\text{MAX}(\Delta f)| = 2.936\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.578231	$\geq 2500\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.621347	$\leq 2570\text{ MHz}$	

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band7_OBW

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	4.569	/	Pass
		2535	25	0	4.581	/	Pass
		2567.5	25	0	4.576	/	Pass
	16QAM	2502.5	25	0	4.582	/	Pass
		2535	25	0	4.576	/	Pass
		2567.5	25	0	4.593	/	Pass
	64QAM	2502.5	25	0	4.565	/	Pass
		2535	25	0	4.585	/	Pass
		2567.5	25	0	4.580	/	Pass
10	QPSK	2505	50	0	9.117	/	Pass
		2535	50	0	9.087	/	Pass
		2565	50	0	9.098	/	Pass
	16QAM	2505	50	0	9.087	/	Pass
		2535	50	0	9.111	/	Pass
		2565	50	0	9.074	/	Pass
	64QAM	2505	50	0	9.086	/	Pass
		2535	50	0	9.077	/	Pass
		2565	50	0	9.101	/	Pass
15	QPSK	2507.5	75	0	13.603	/	Pass
		2535	75	0	13.633	/	Pass
		2562.5	75	0	13.631	/	Pass
	16QAM	2507.5	75	0	13.611	/	Pass
		2535	75	0	13.631	/	Pass
		2562.5	75	0	13.643	/	Pass
	64QAM	2507.5	75	0	13.654	/	Pass
		2535	75	0	13.652	/	Pass
		2562.5	75	0	13.581	/	Pass
20	QPSK	2510	100	0	18.093	/	Pass
		2535	100	0	18.090	/	Pass
		2560	100	0	18.102	/	Pass
	16QAM	2510	100	0	18.108	/	Pass
		2535	100	0	18.173	/	Pass
		2560	100	0	18.133	/	Pass
	64QAM	2510	100	0	18.109	/	Pass
		2535	100	0	18.103	/	Pass
		2560	100	0	18.086	/	Pass

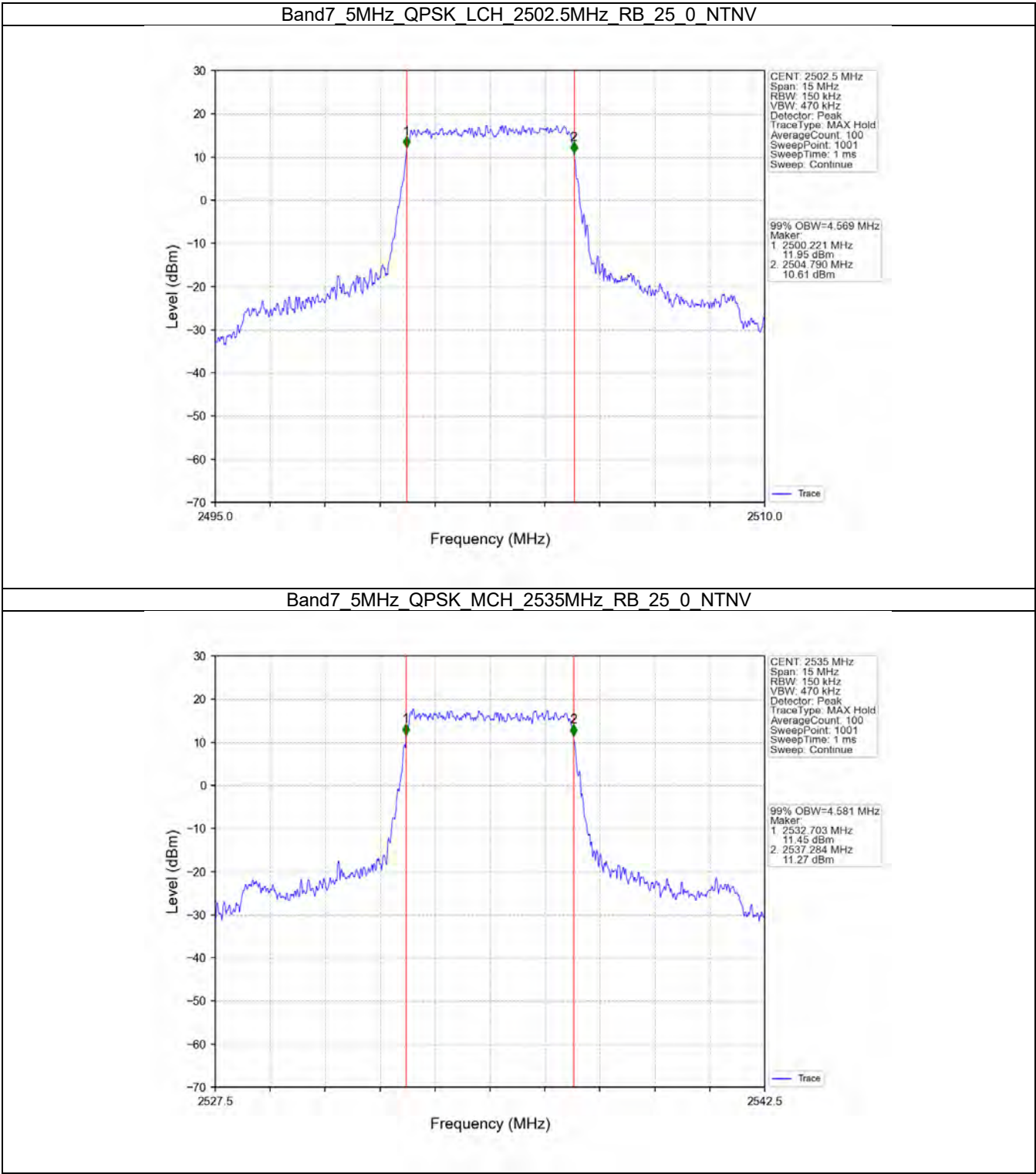
3.1.2 Band7_XDB

Band: 7 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2502.5	25	0	5.291	/	Pass
		2535	25	0	5.290	/	Pass
		2567.5	25	0	5.204	/	Pass
	16QAM	2502.5	25	0	5.313	/	Pass
		2535	25	0	5.302	/	Pass
		2567.5	25	0	5.219	/	Pass

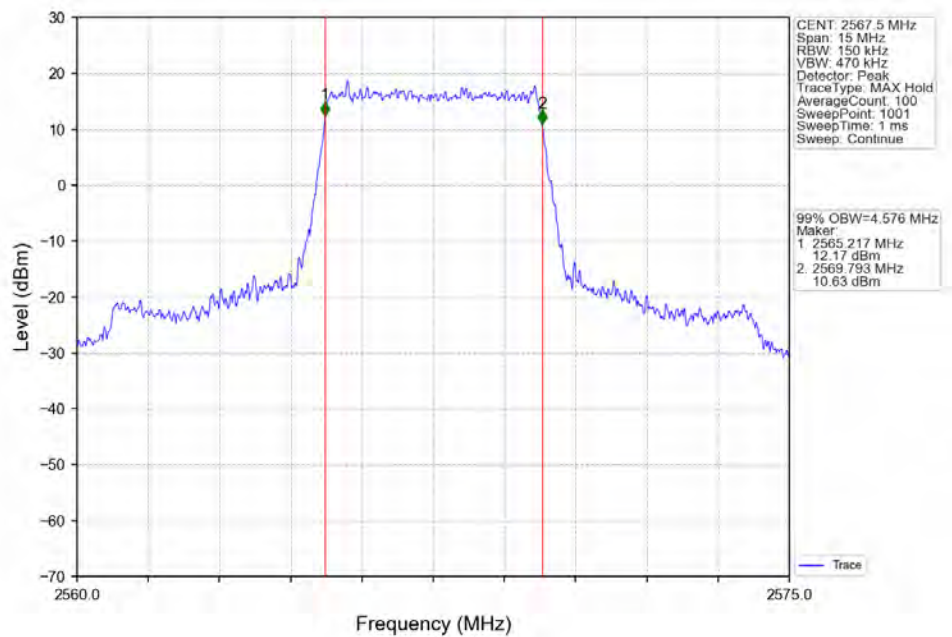
	64QAM	2502.5	25	0	5.280	/	Pass
		2535	25	0	5.286	/	Pass
		2567.5	25	0	5.297	/	Pass
10	QPSK	2505	50	0	10.271	/	Pass
		2535	50	0	10.274	/	Pass
		2565	50	0	10.245	/	Pass
	16QAM	2505	50	0	10.192	/	Pass
		2535	50	0	10.182	/	Pass
		2565	50	0	10.123	/	Pass
	64QAM	2505	50	0	10.135	/	Pass
		2535	50	0	10.186	/	Pass
		2565	50	0	10.244	/	Pass
15	QPSK	2507.5	75	0	15.222	/	Pass
		2535	75	0	15.142	/	Pass
		2562.5	75	0	15.050	/	Pass
	16QAM	2507.5	75	0	15.212	/	Pass
		2535	75	0	15.223	/	Pass
		2562.5	75	0	15.244	/	Pass
	64QAM	2507.5	75	0	15.233	/	Pass
		2535	75	0	15.205	/	Pass
		2562.5	75	0	15.076	/	Pass
20	QPSK	2510	100	0	20.065	/	Pass
		2535	100	0	20.195	/	Pass
		2560	100	0	20.322	/	Pass
	16QAM	2510	100	0	19.890	/	Pass
		2535	100	0	20.195	/	Pass
		2560	100	0	19.752	/	Pass
	64QAM	2510	100	0	20.075	/	Pass
		2535	100	0	20.087	/	Pass
		2560	100	0	20.117	/	Pass

3.2 Test Graph

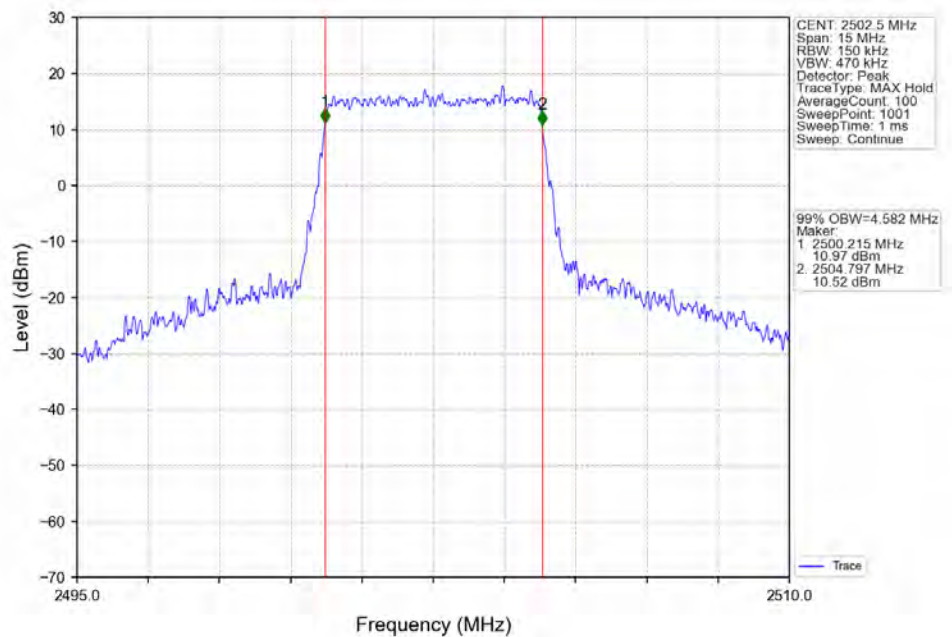
3.2.1 Band7_OBW



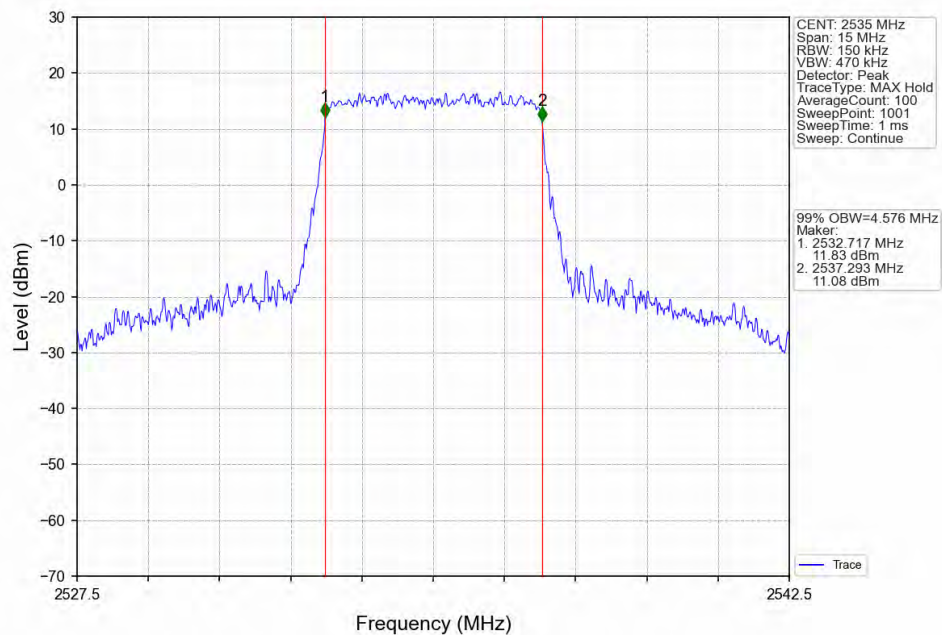
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTN



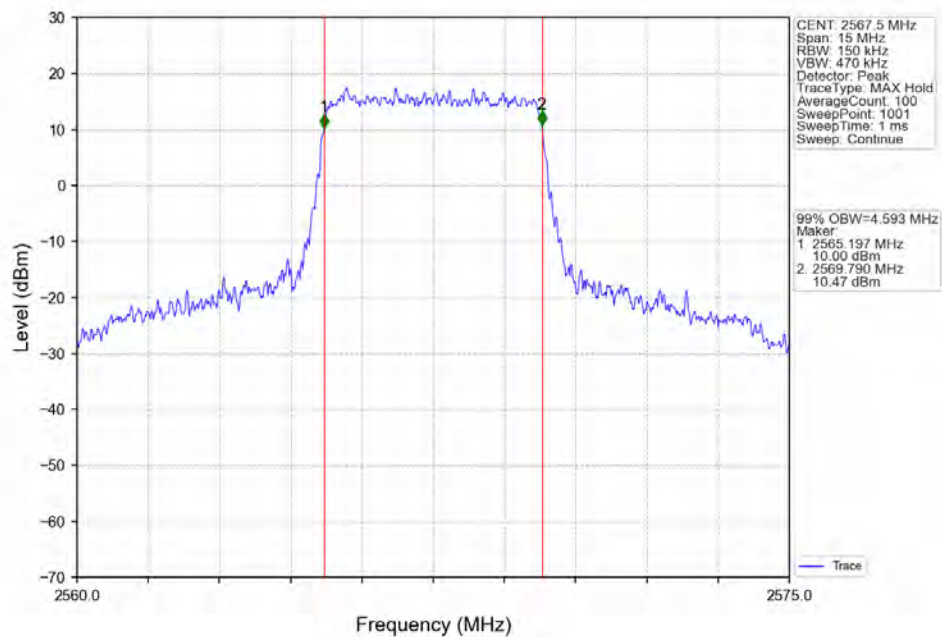
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTN



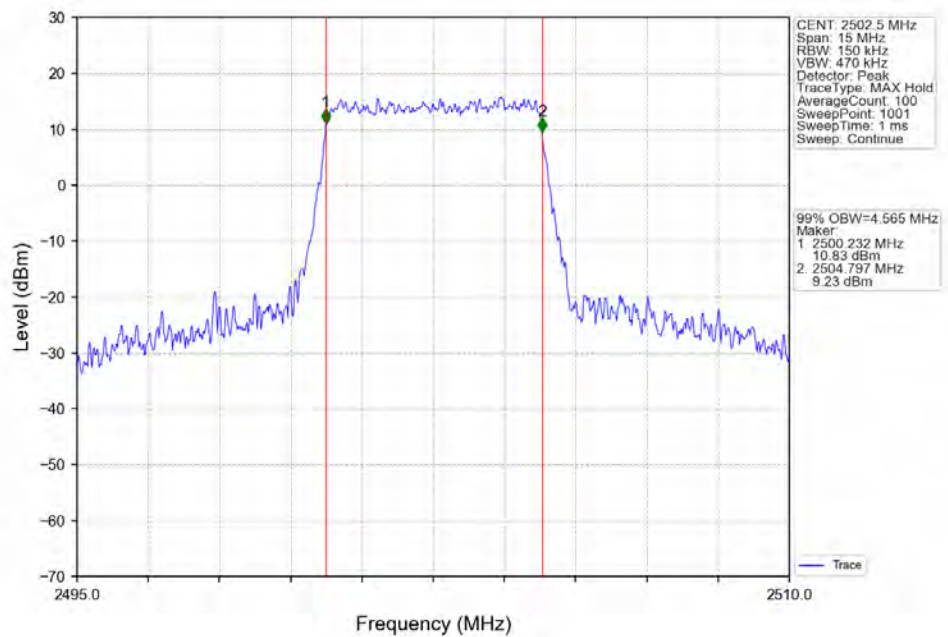
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTNV



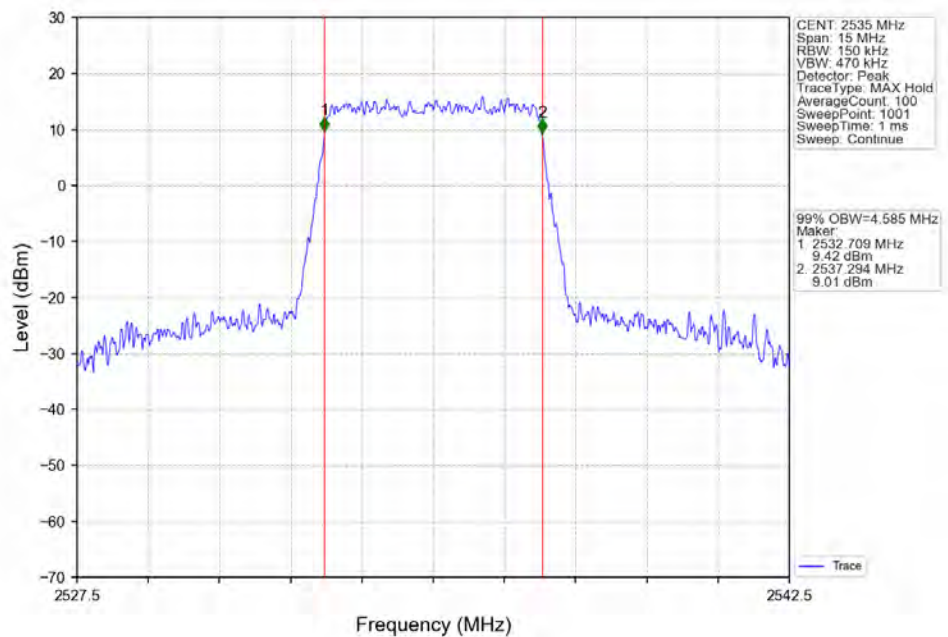
Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTNV



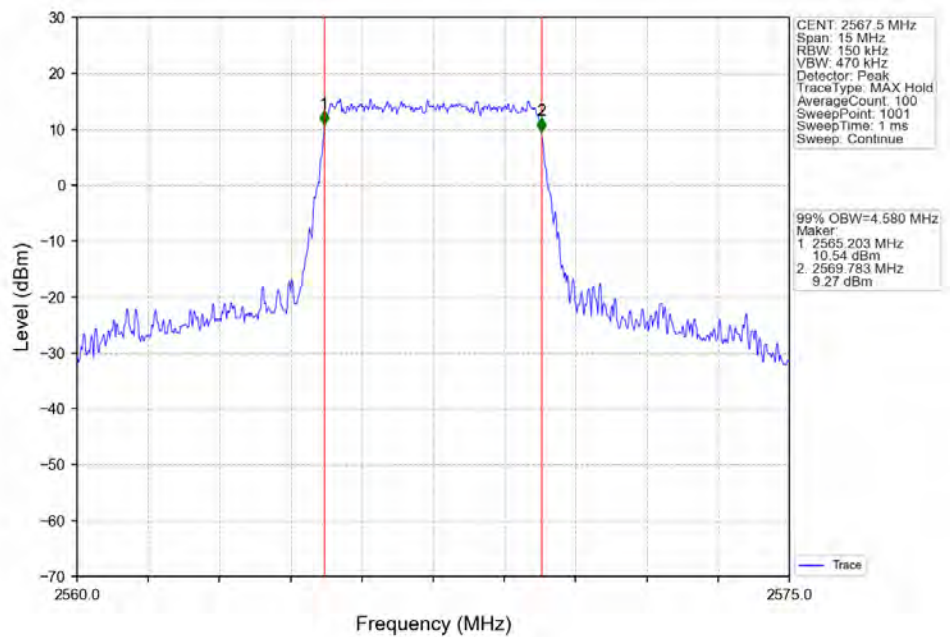
Band7 5MHz 64QAM LCH 2502.5MHz RB 25 0 NTNV



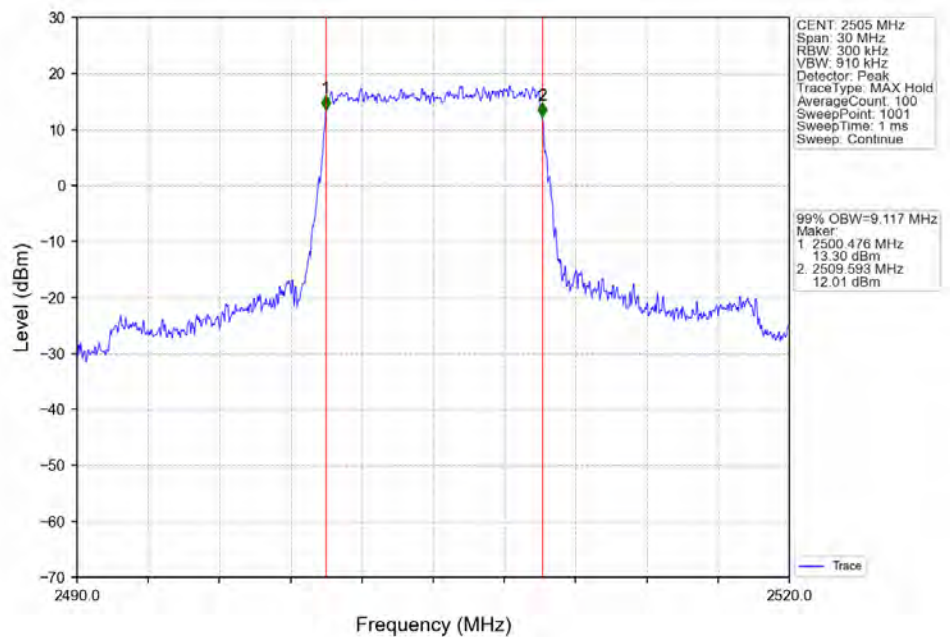
Band7 5MHz 64QAM MCH 2535MHz RB 25 0 NTNV



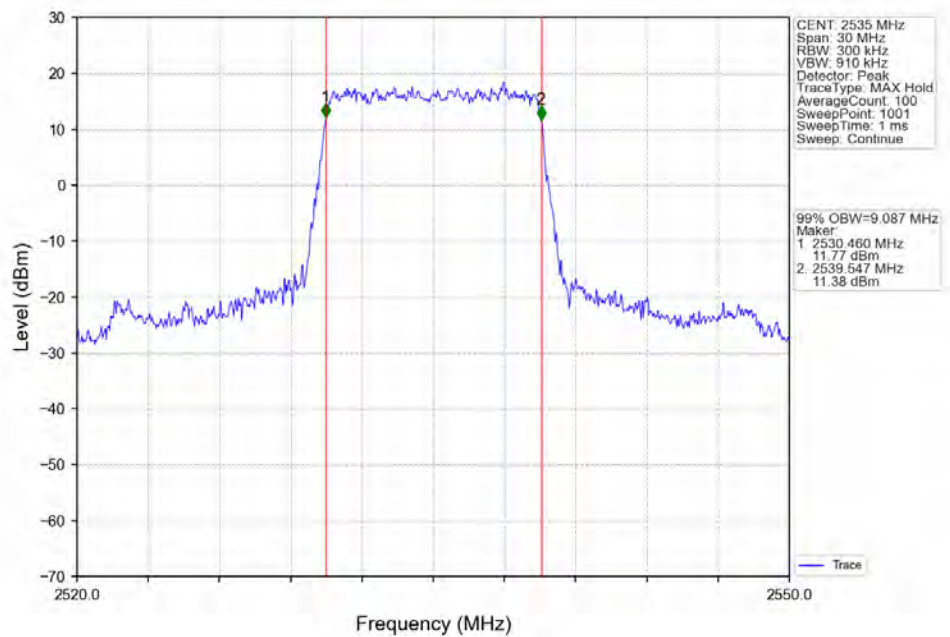
Band7 5MHz 64QAM HCH 2567.5MHz RB 25 0 NTNV



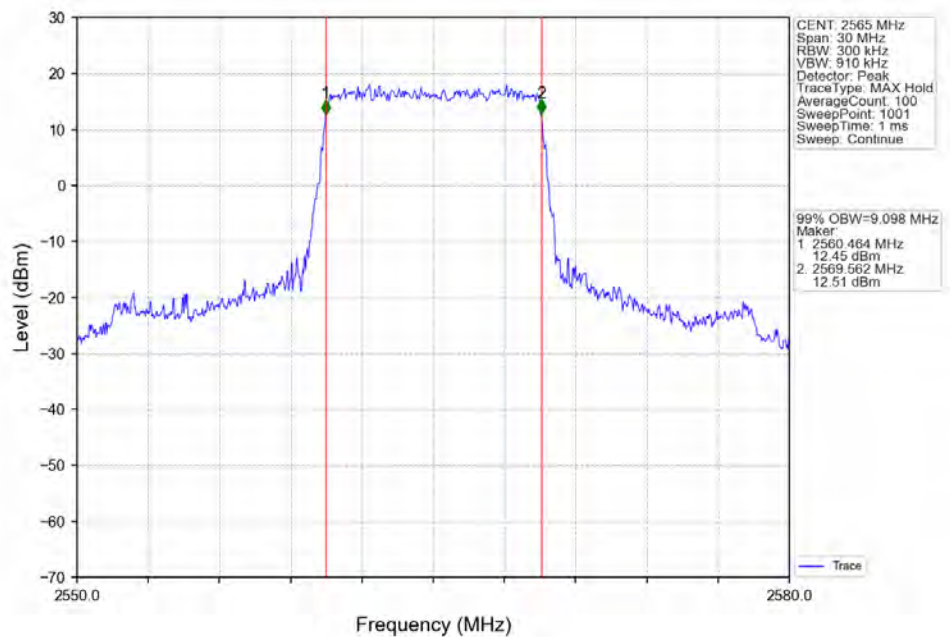
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



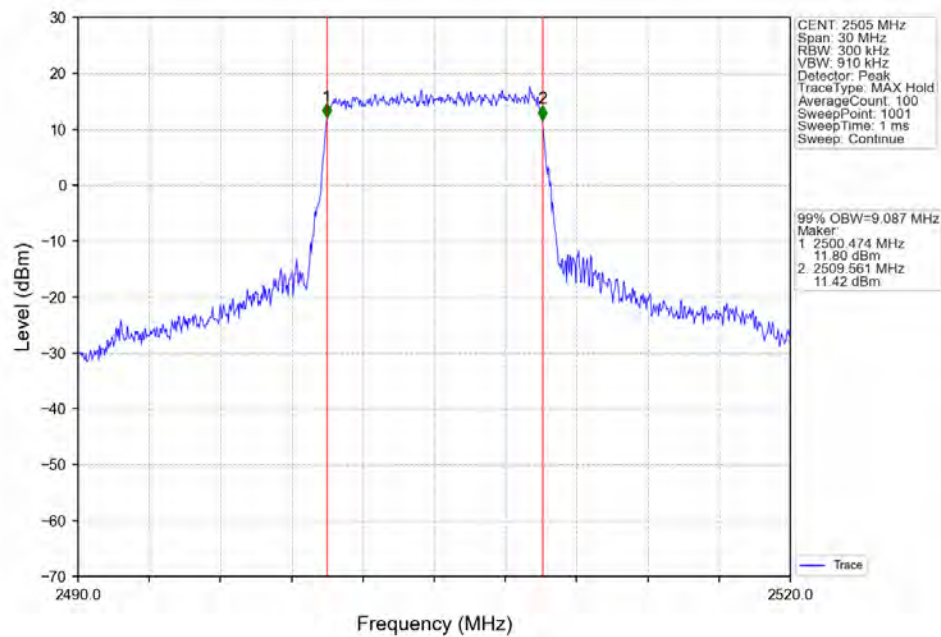
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTN



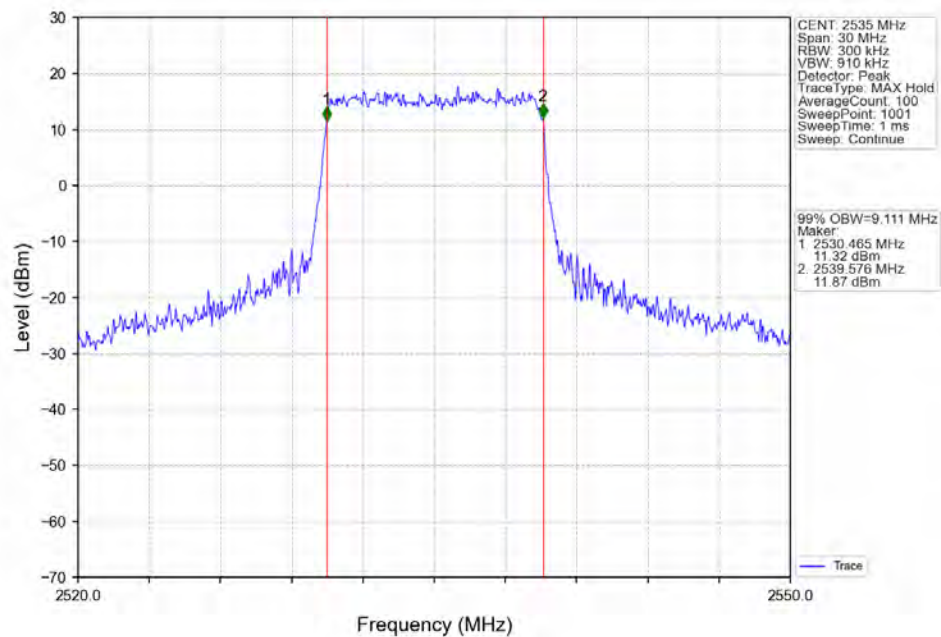
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN



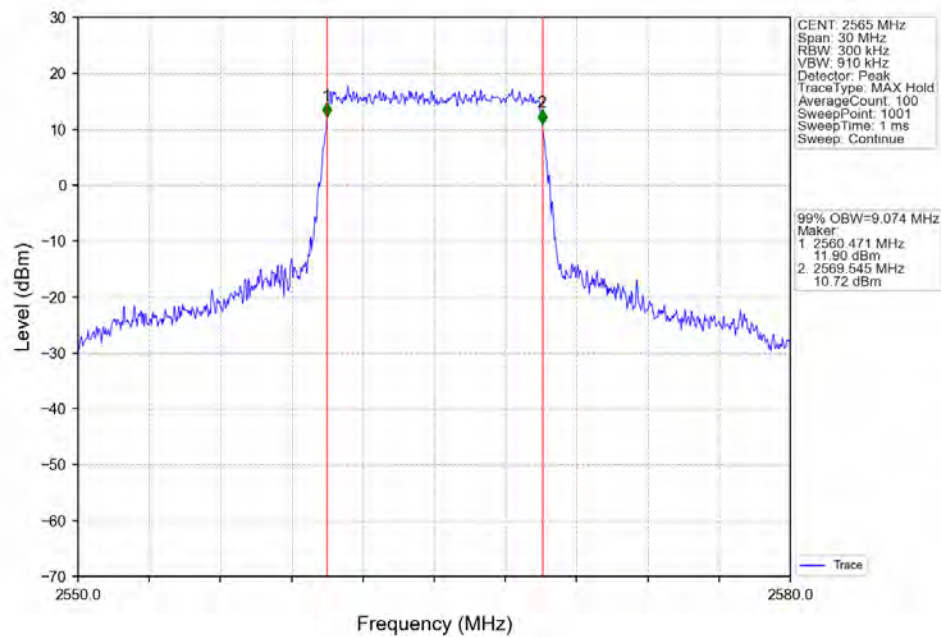
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



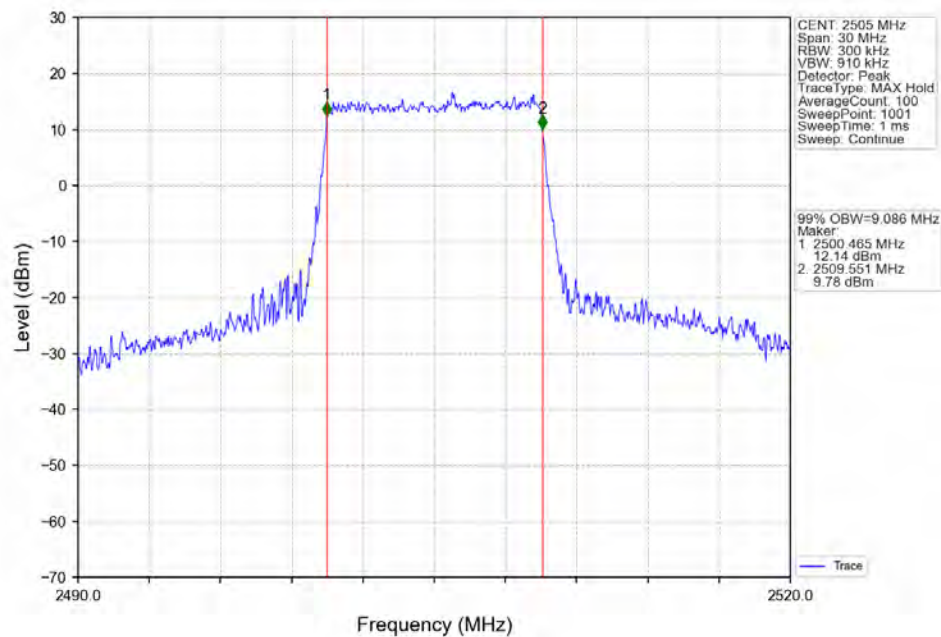
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



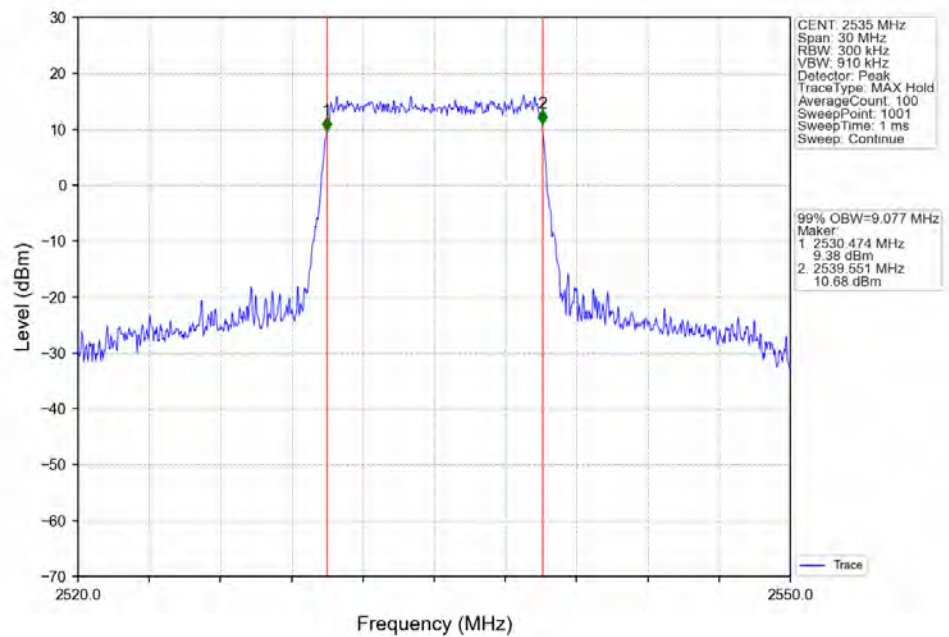
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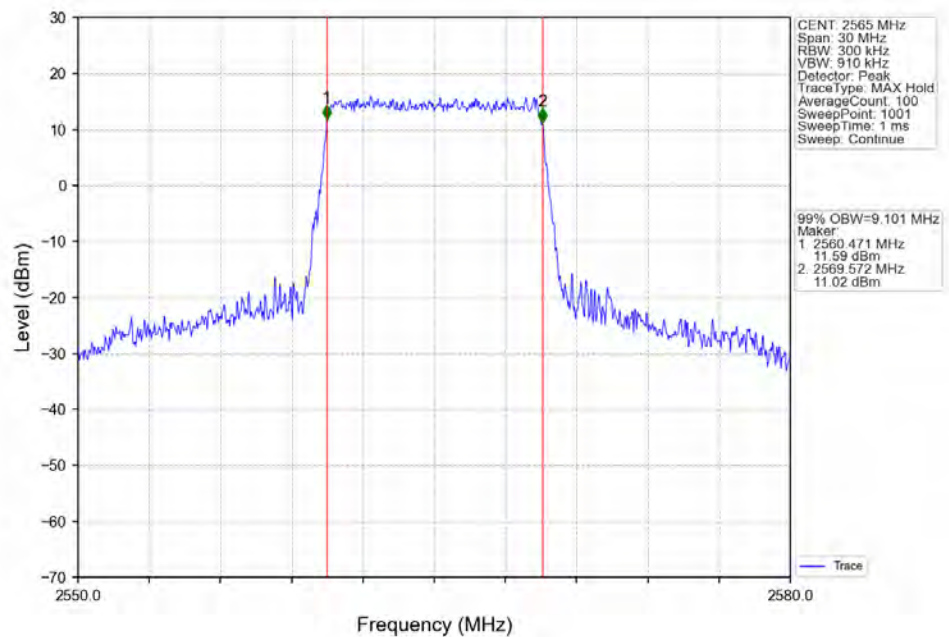
Band7 10MHz 64QAM LCH 2505MHz RB 50 0 NTNV



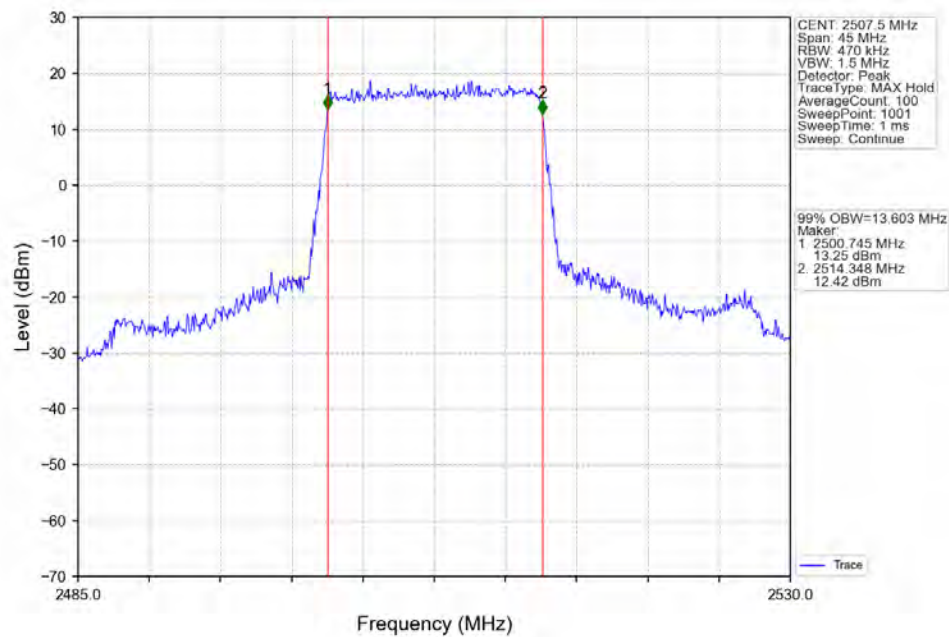
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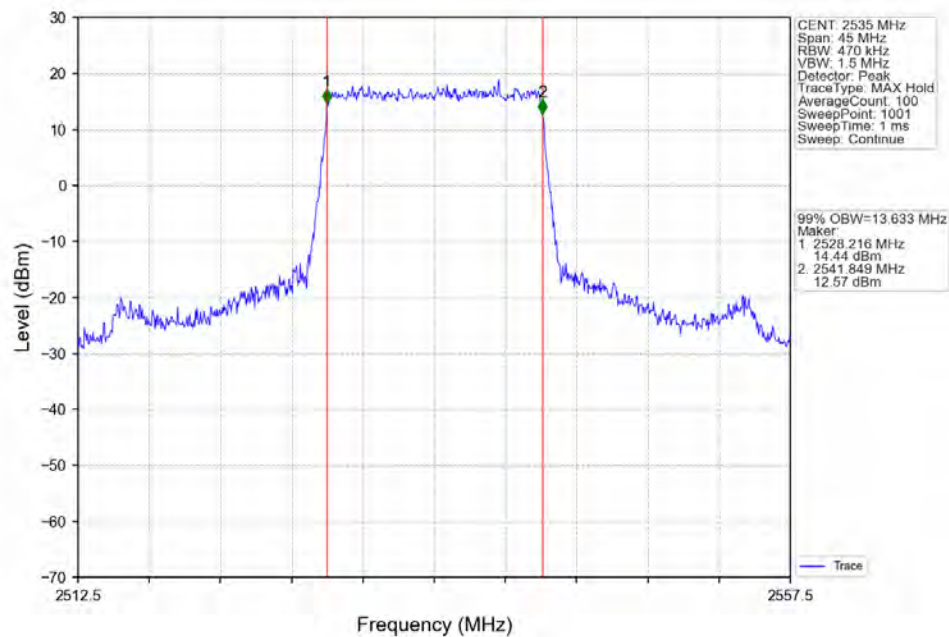
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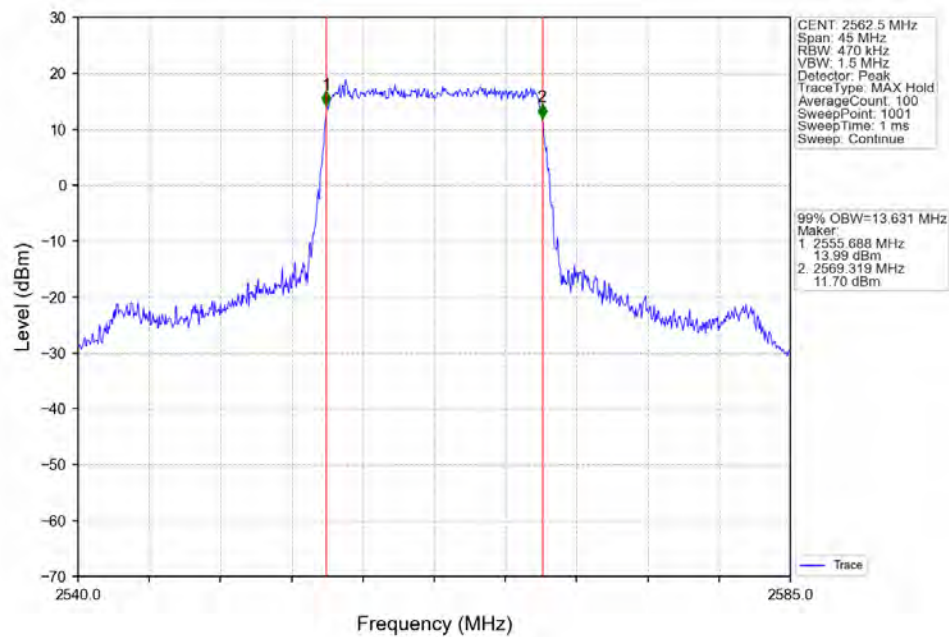
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



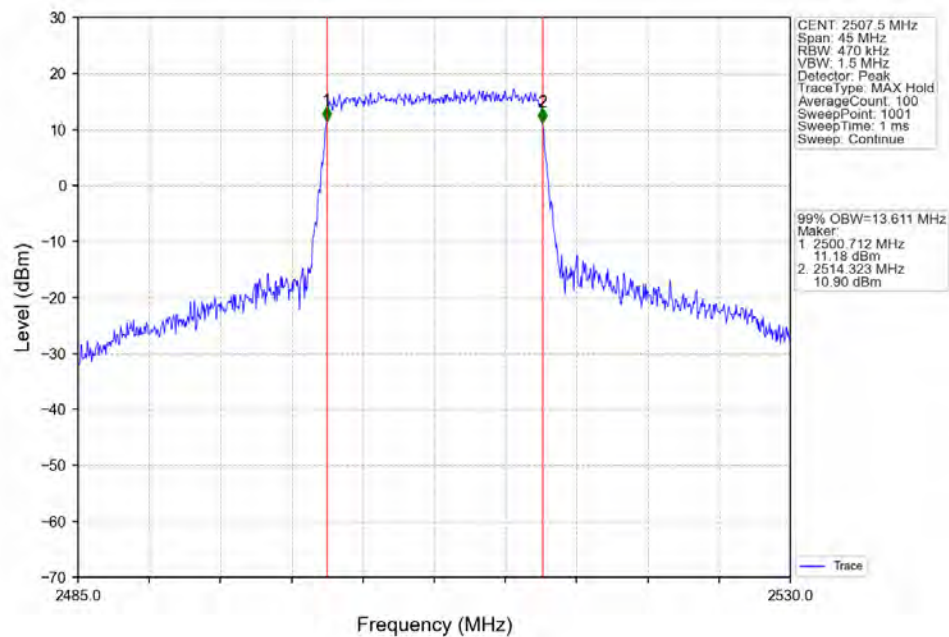
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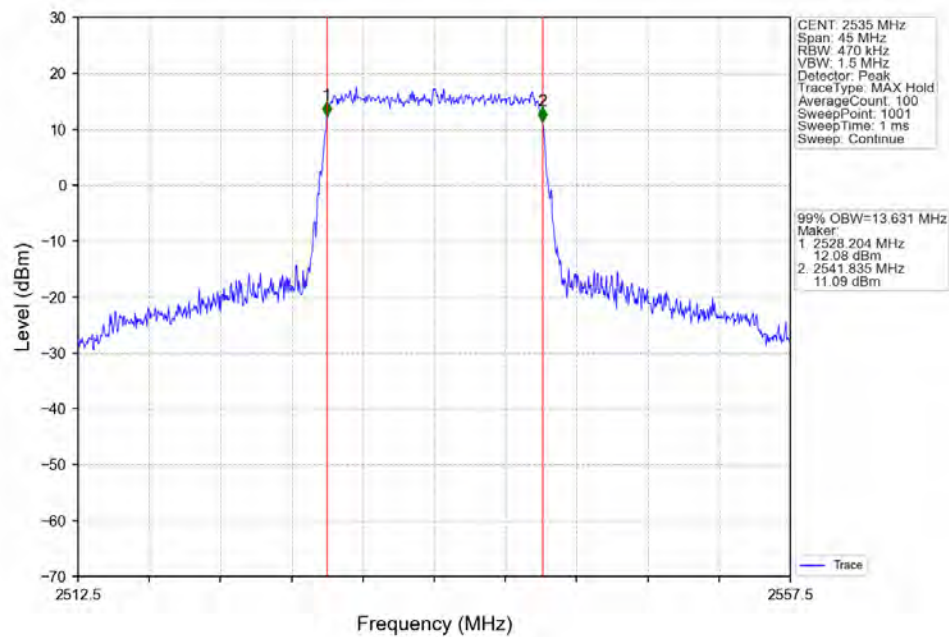
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



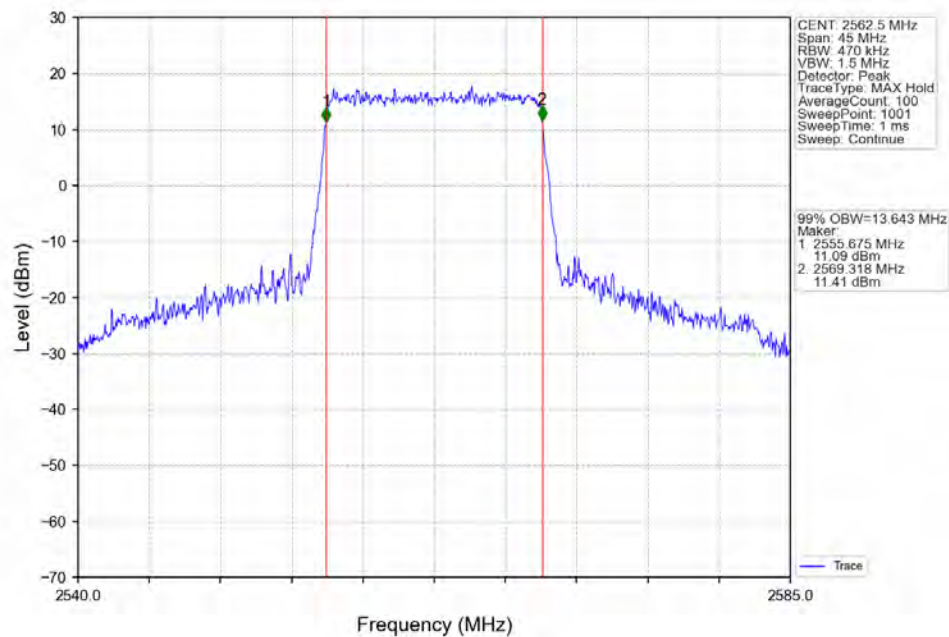
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV

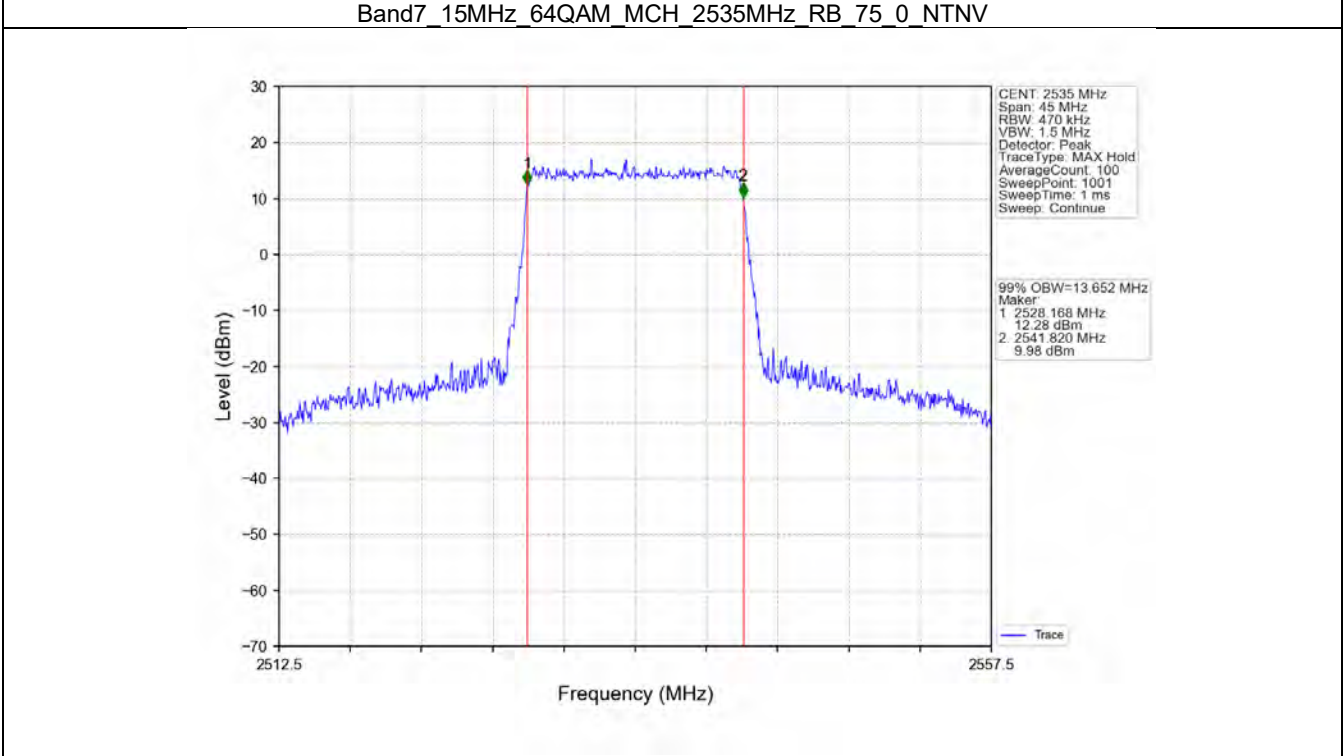
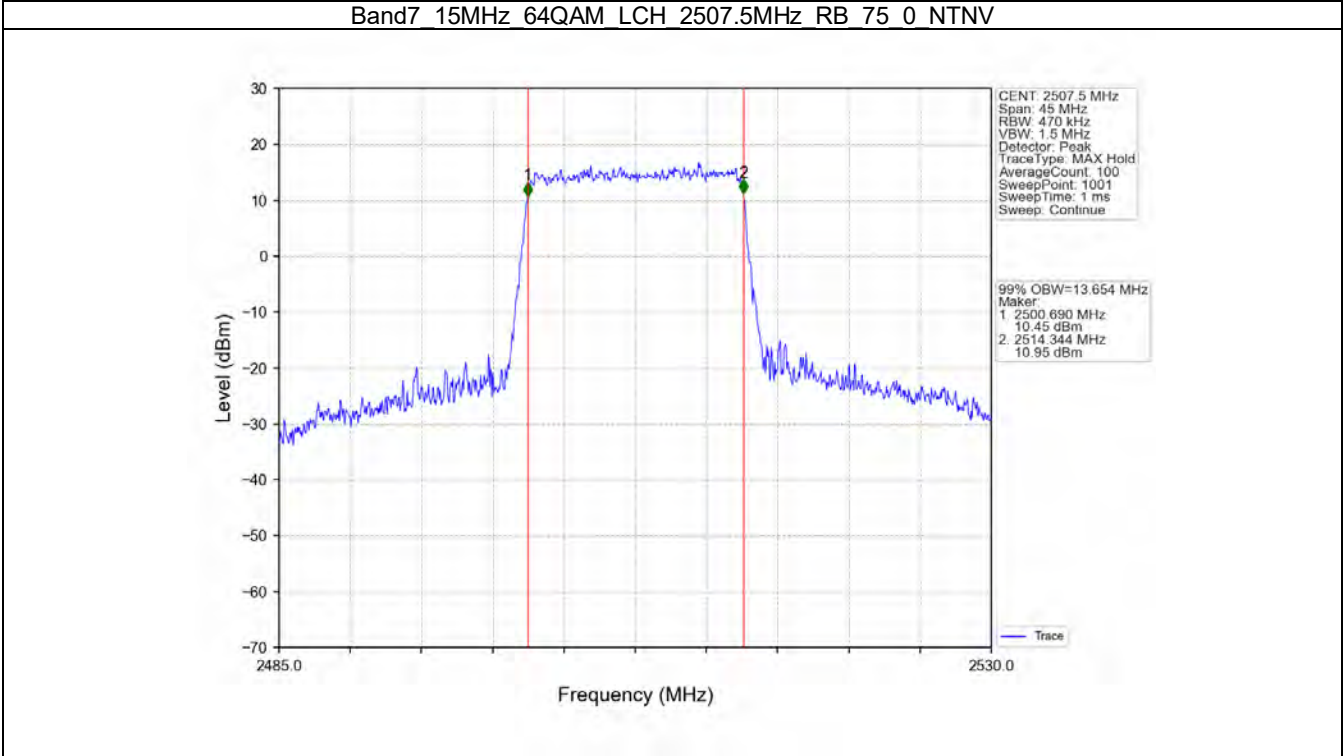


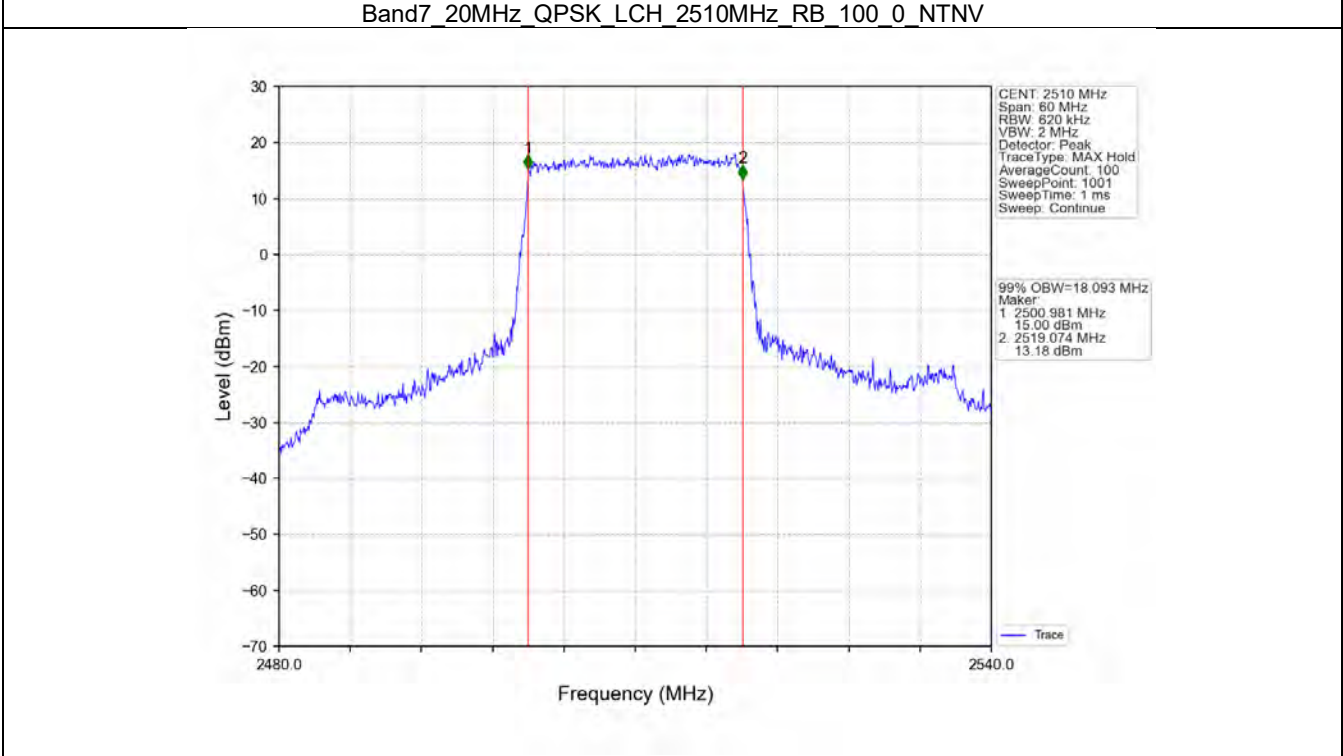
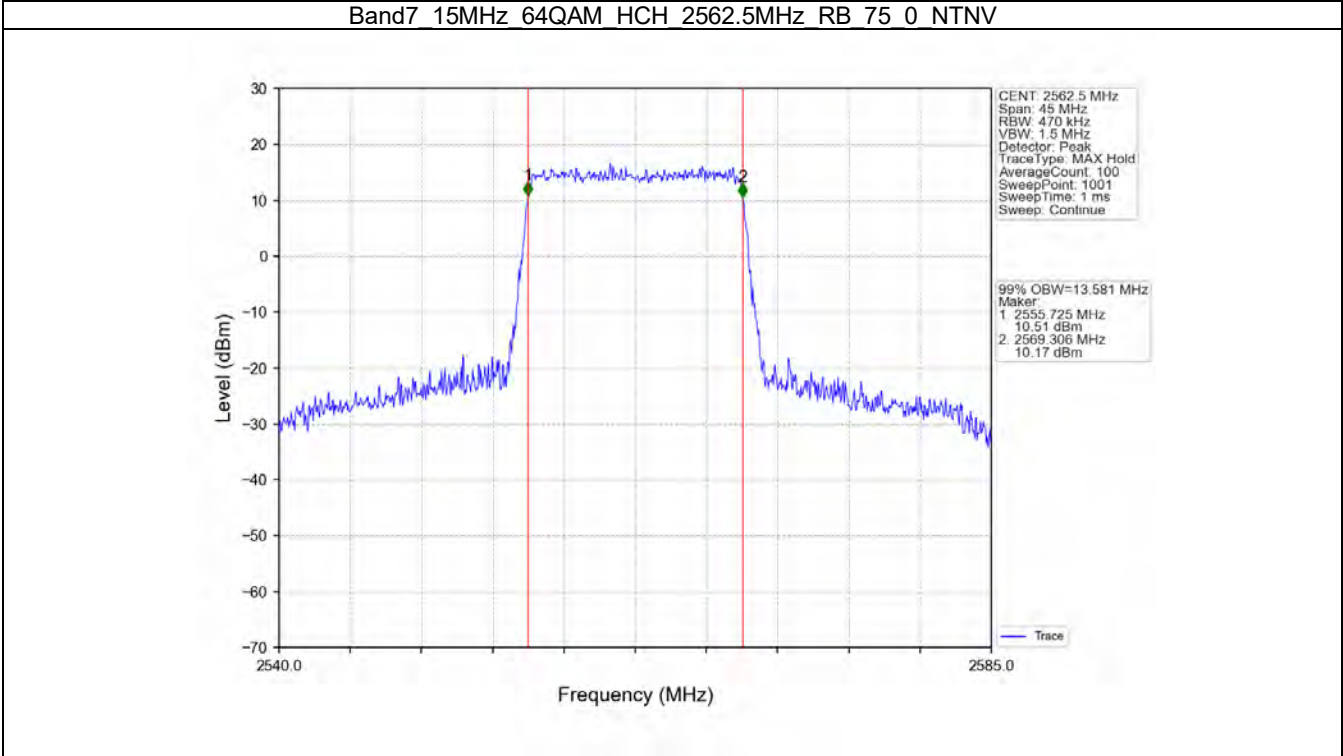
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



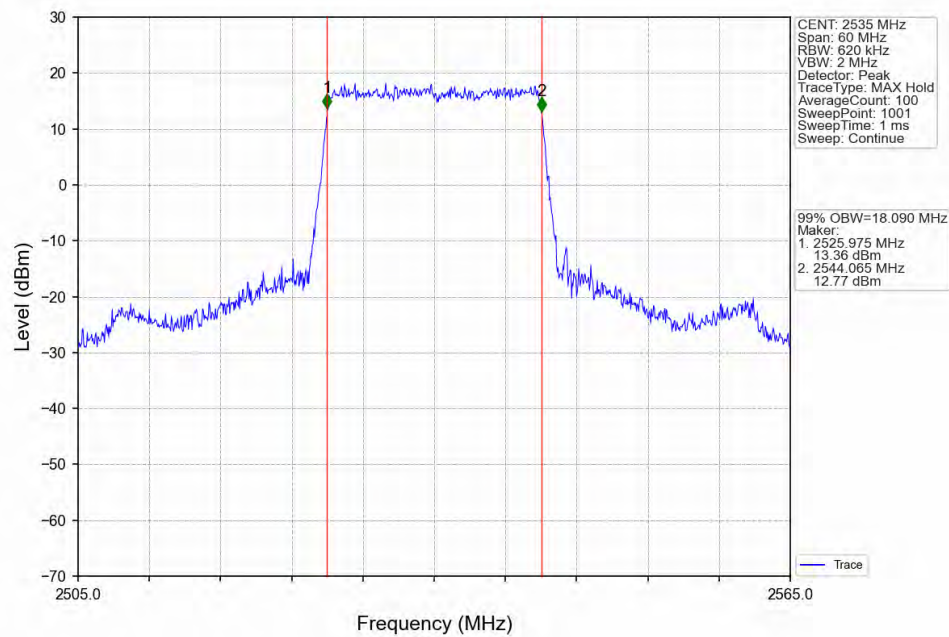
Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



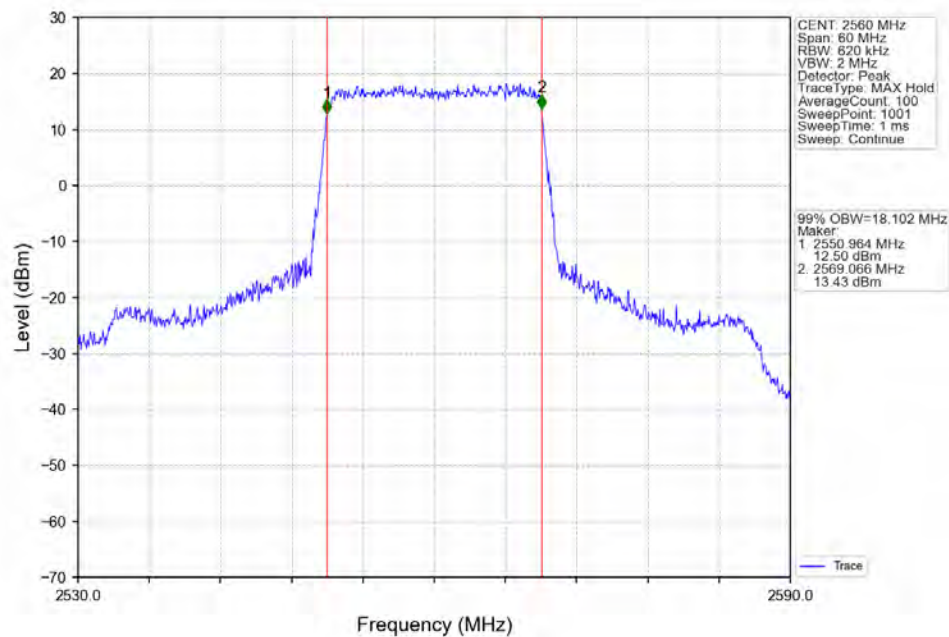




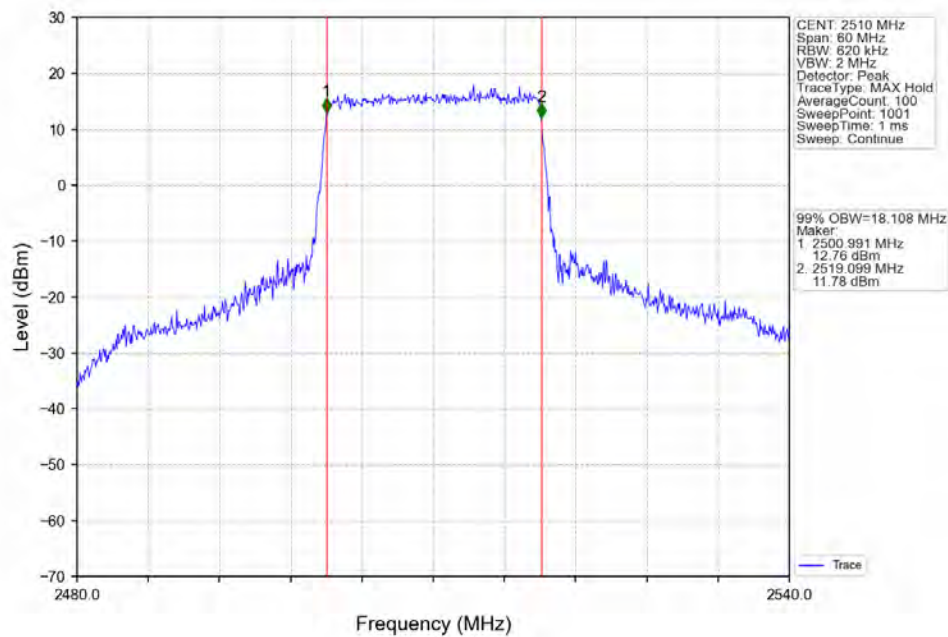
Band7 20MHz QPSK MCH 2535MHz RB 100 0 NTNV



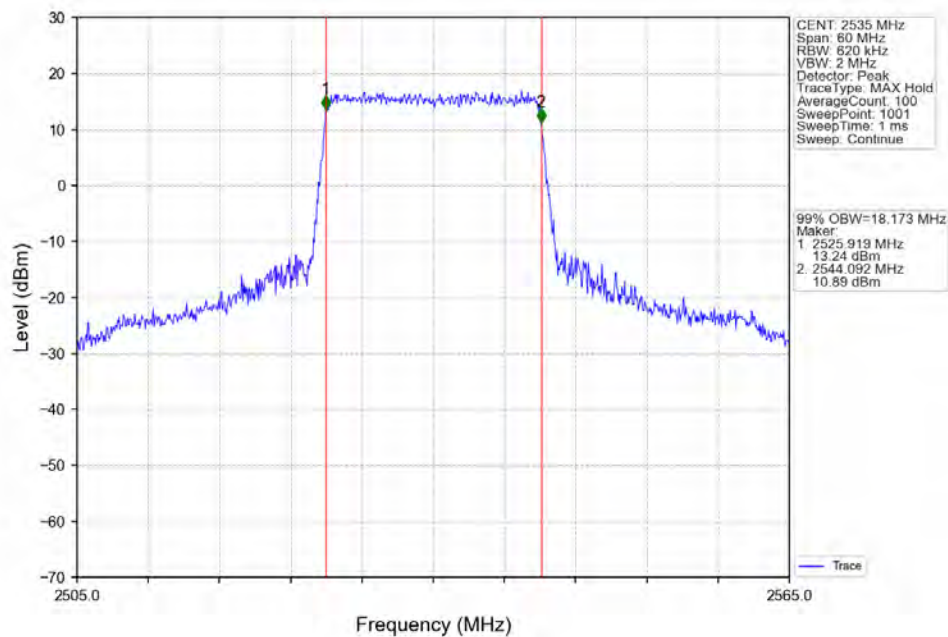
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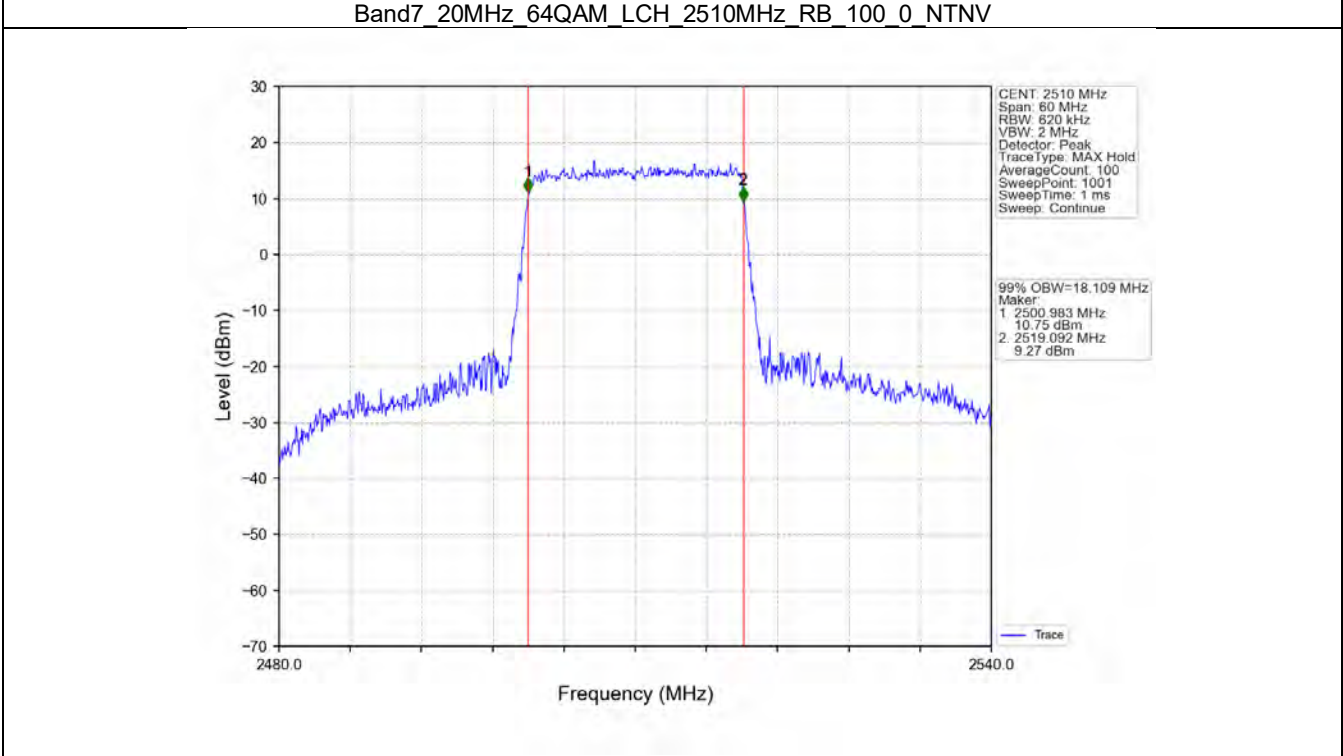
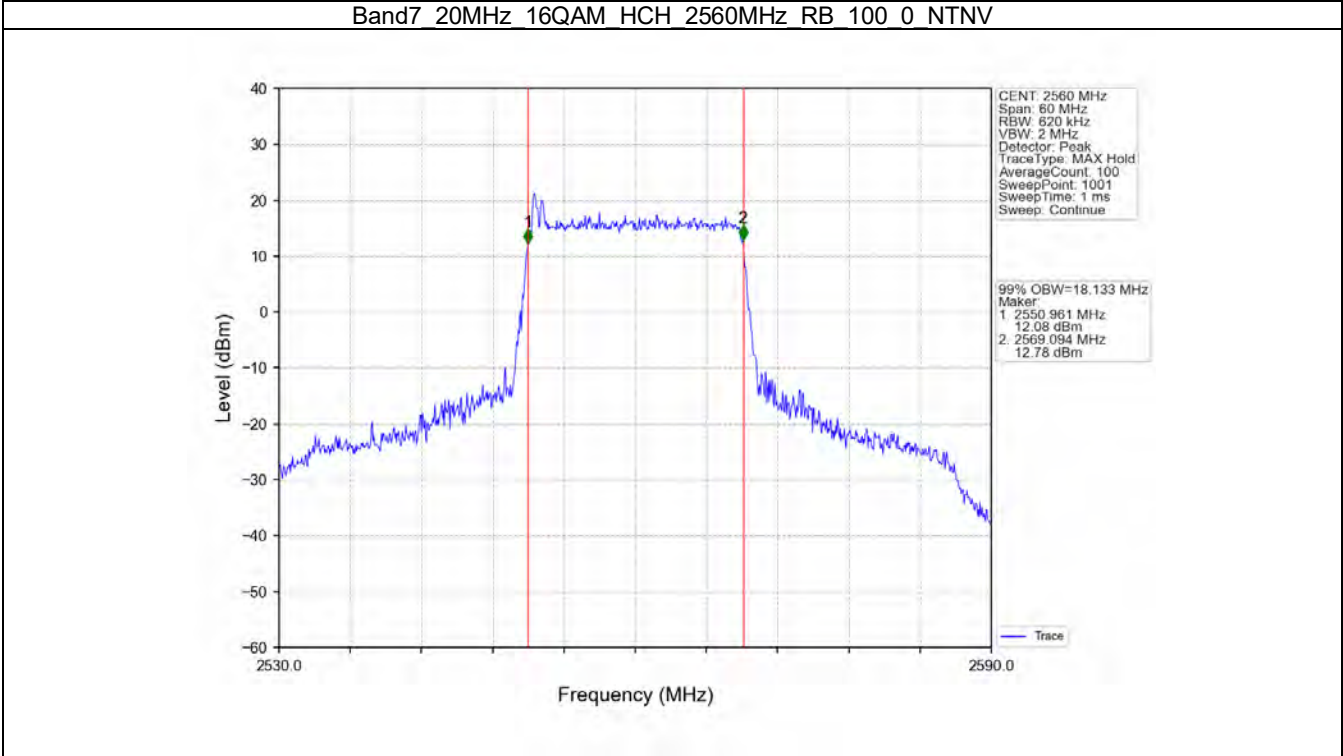


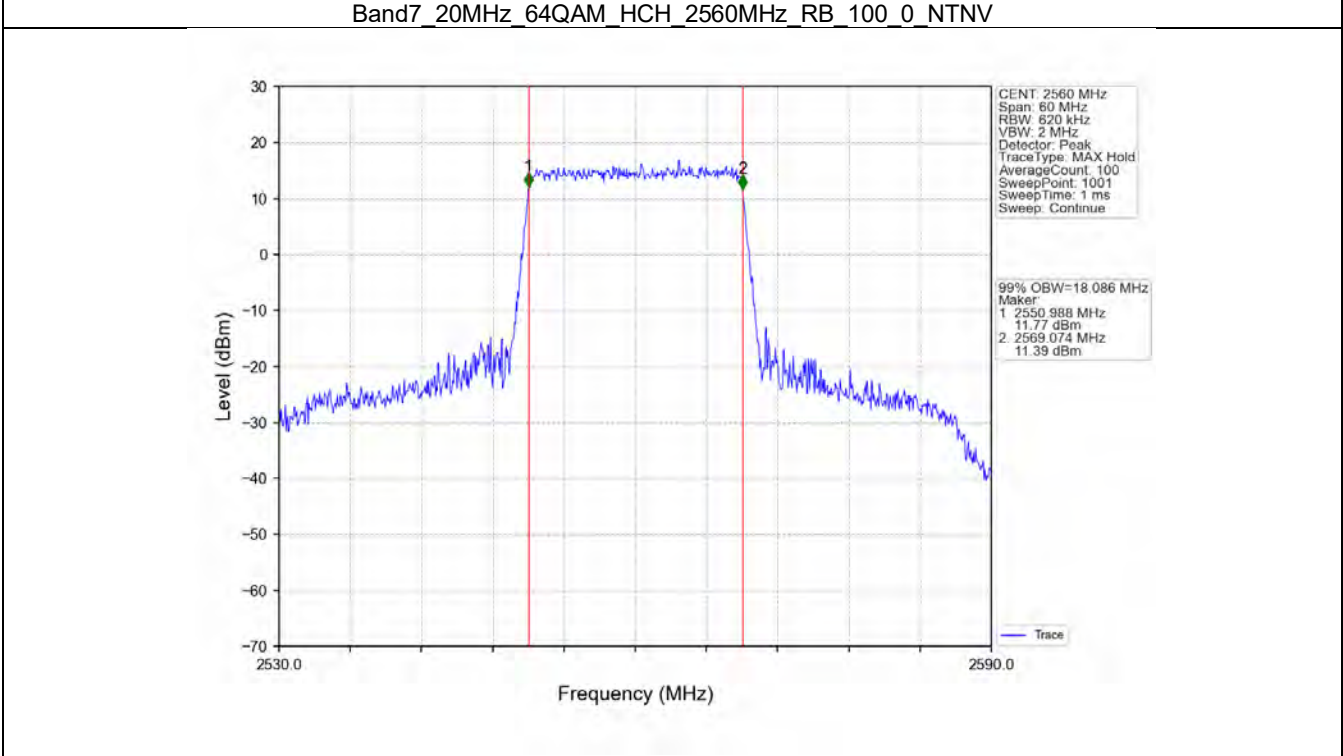
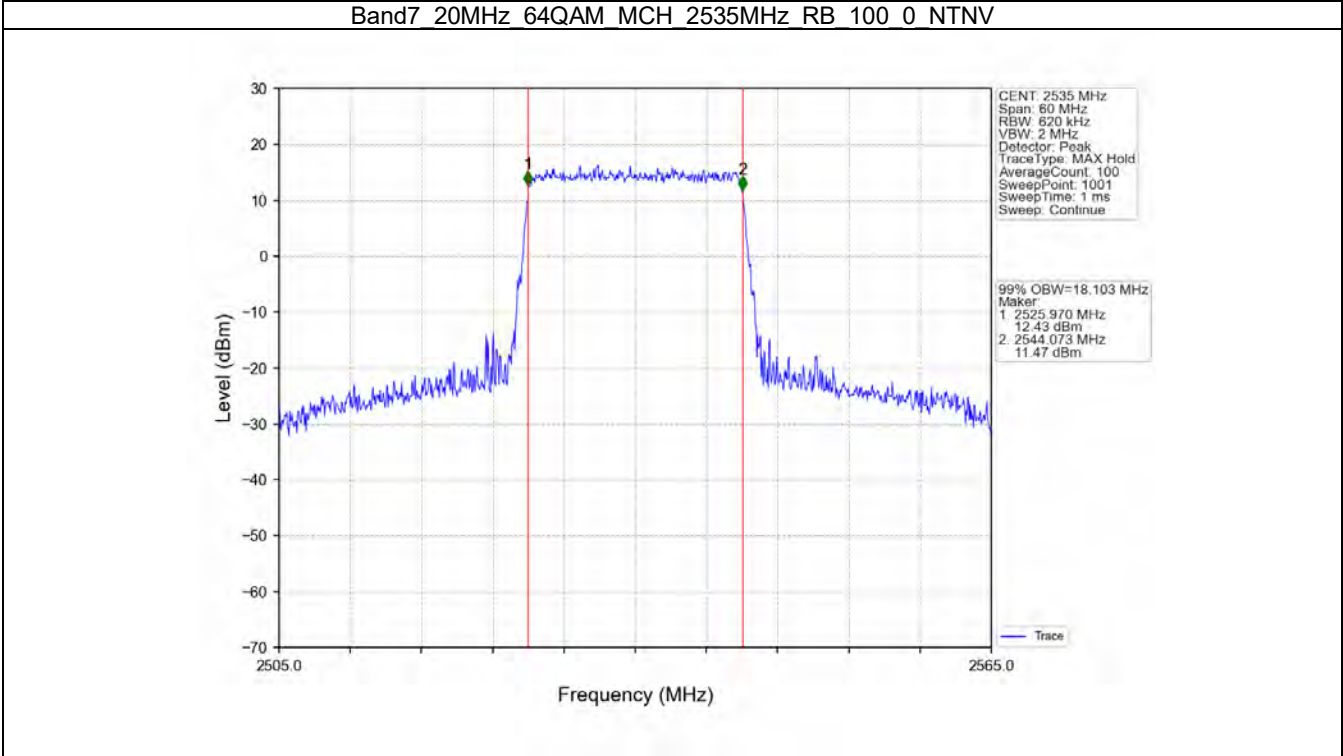
Band7 20MHz 16QAM LCH 2510MHz RB 100 0 NTNV



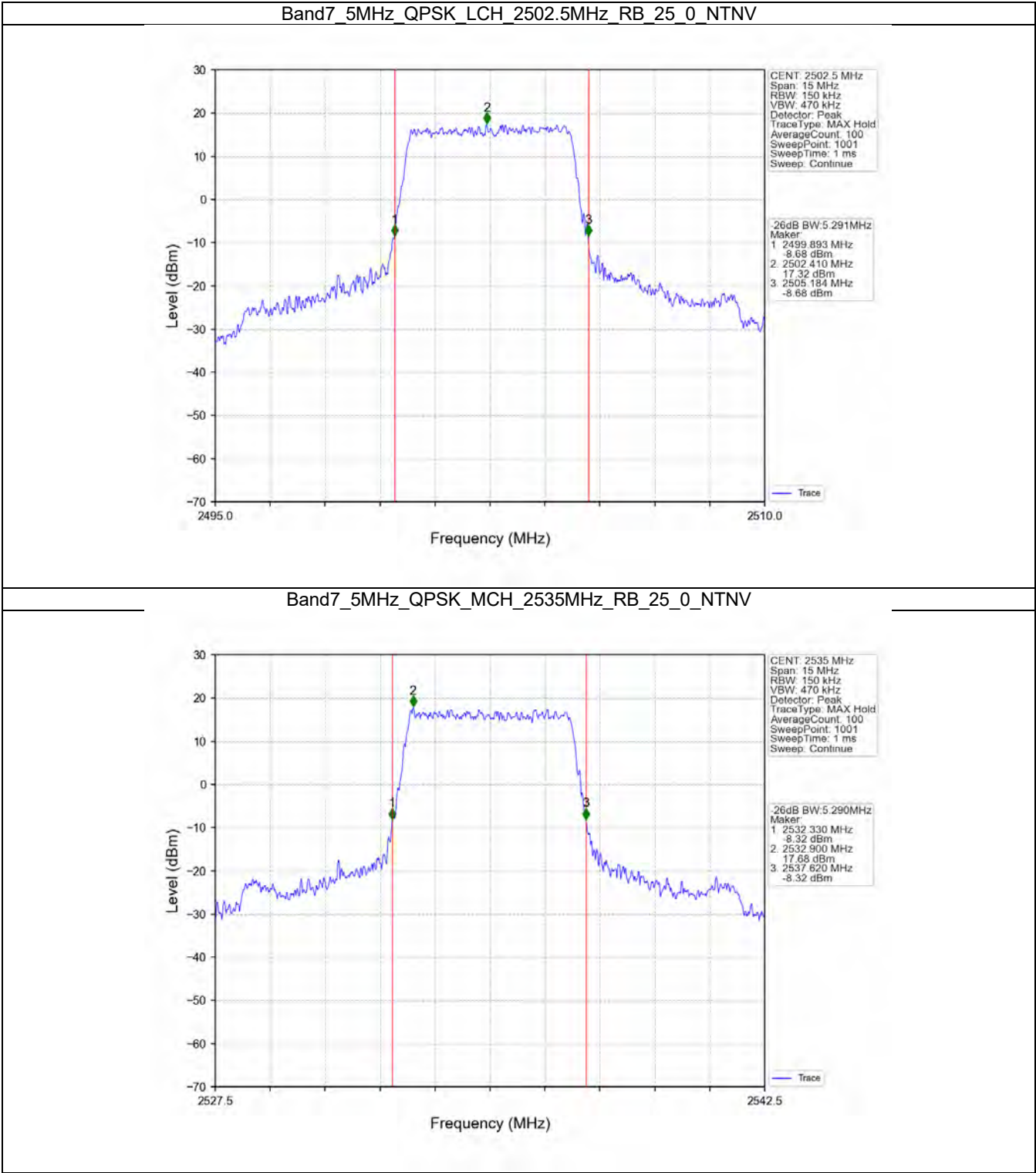
Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTNV



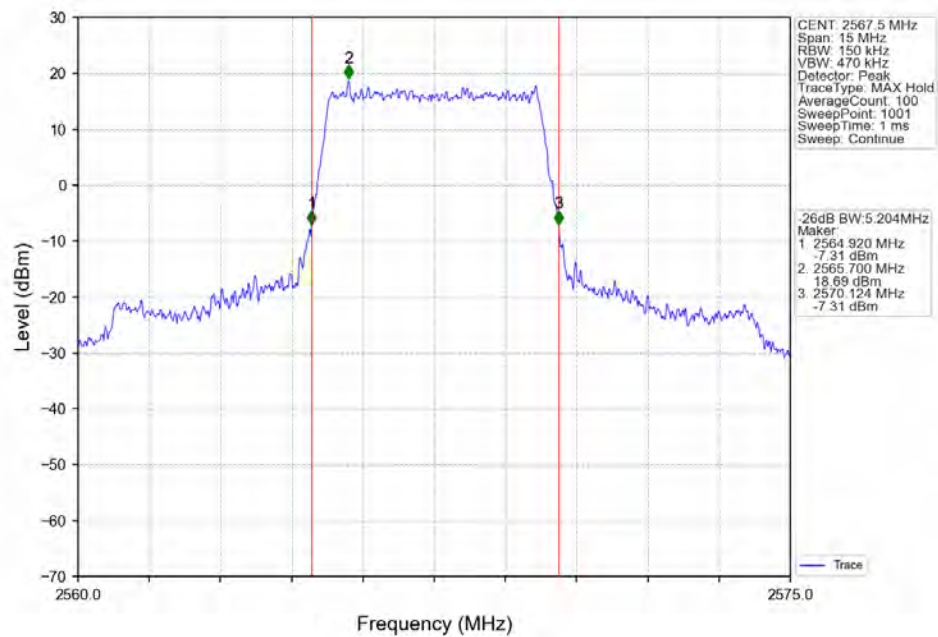




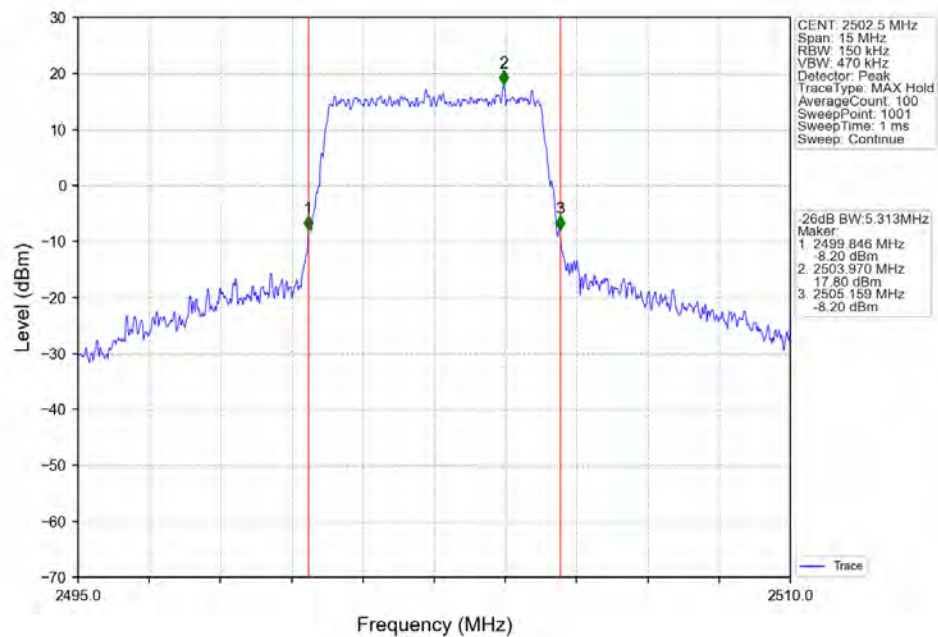
3.2.2 Band7_XDB



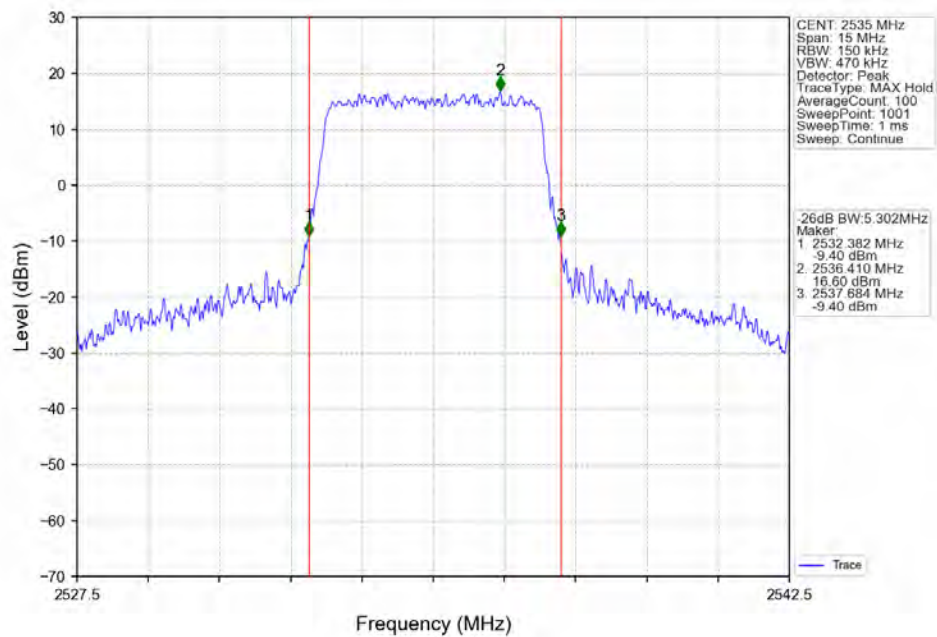
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



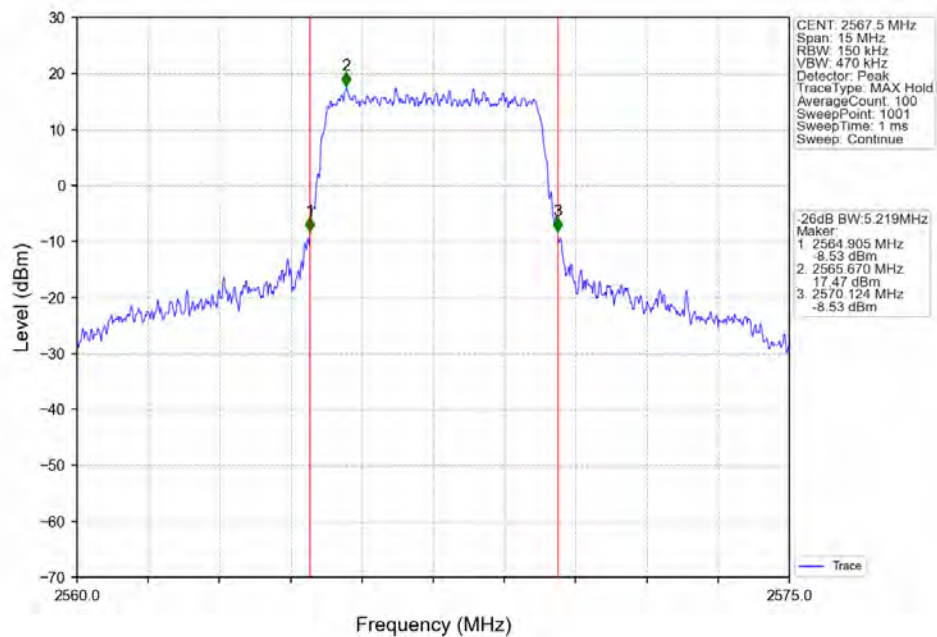
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTV



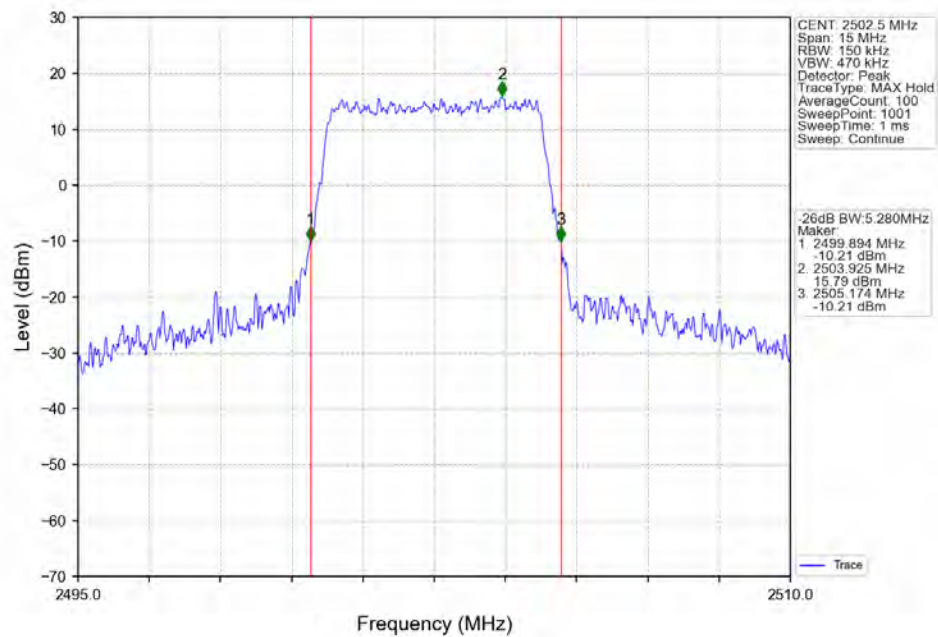
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTV



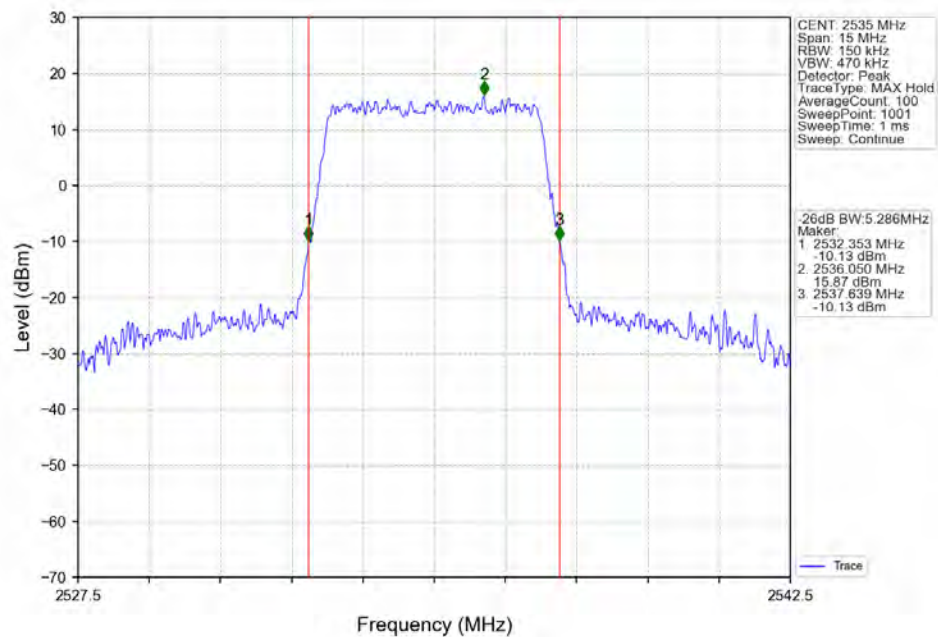
Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTV



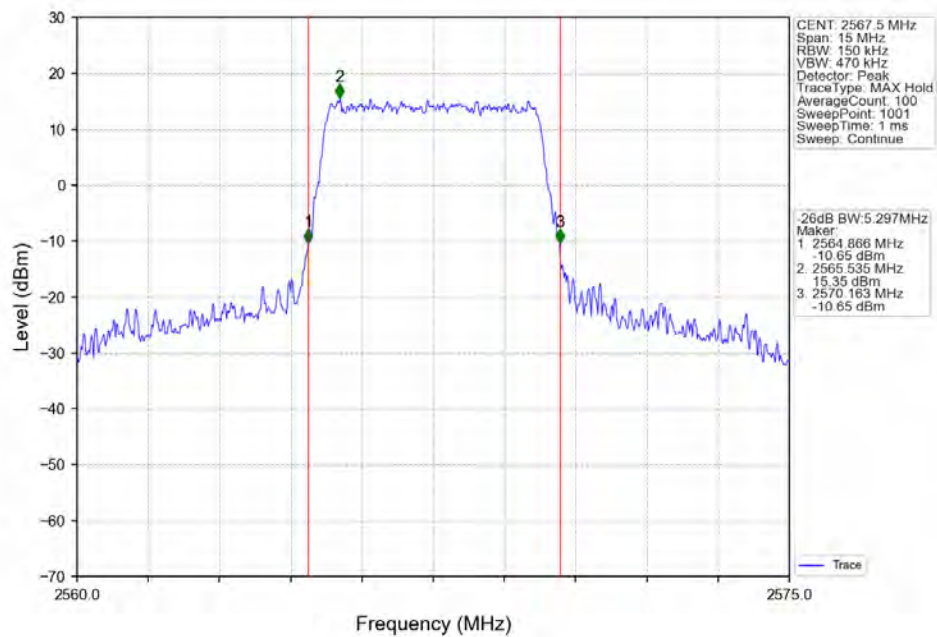
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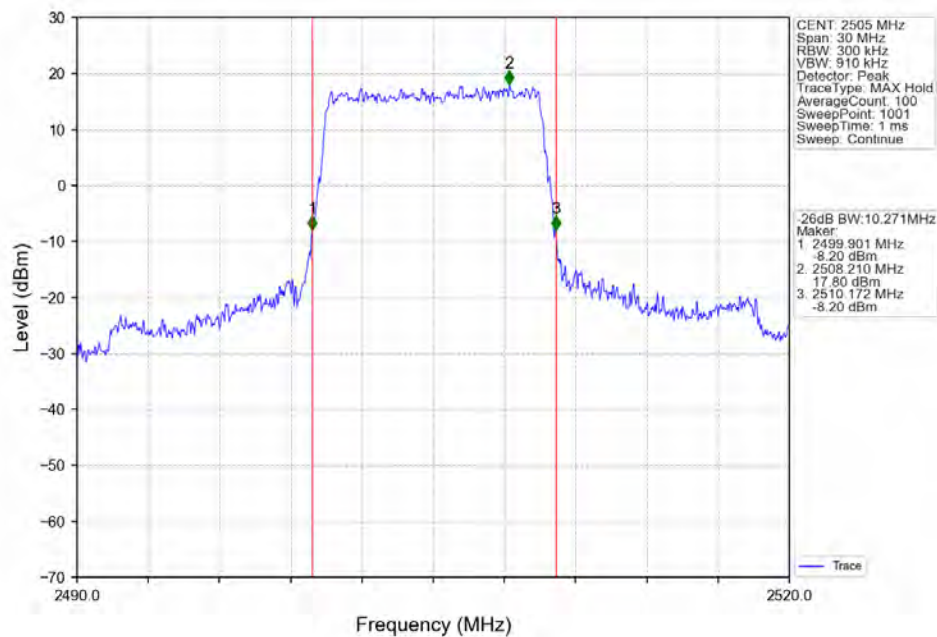
Band7 5MHz 64QAM MCH 2535MHz RB 25 0 NTNV



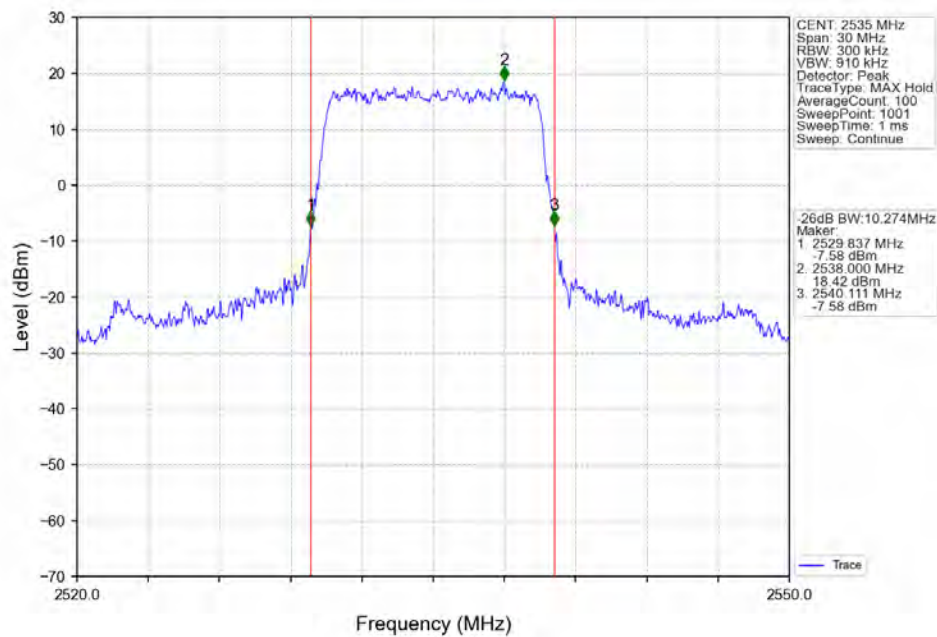
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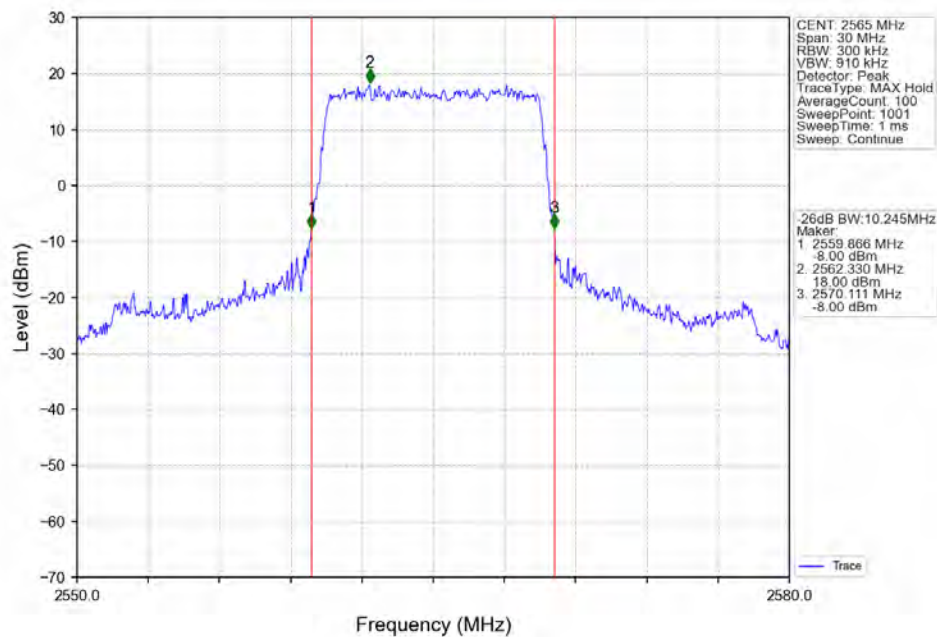
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTNV



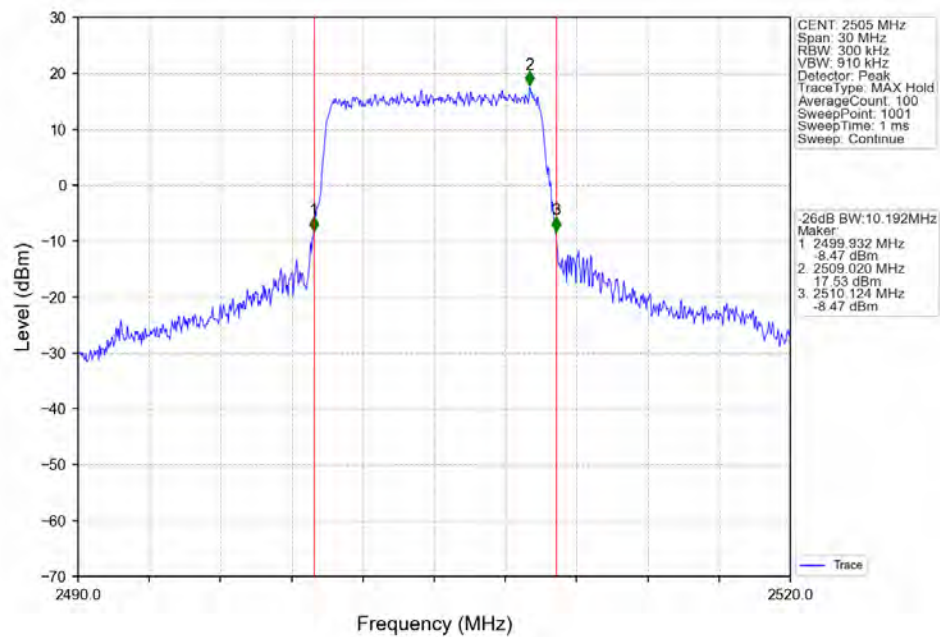
Band7 10MHz QPSK MCH 2535MHz RB 50 0 NTNV



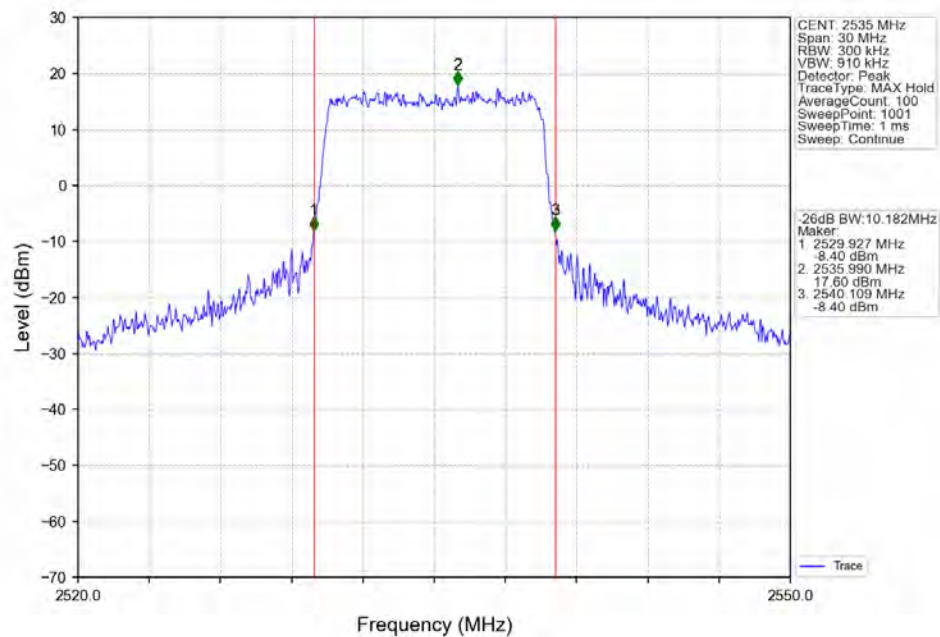
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTNV



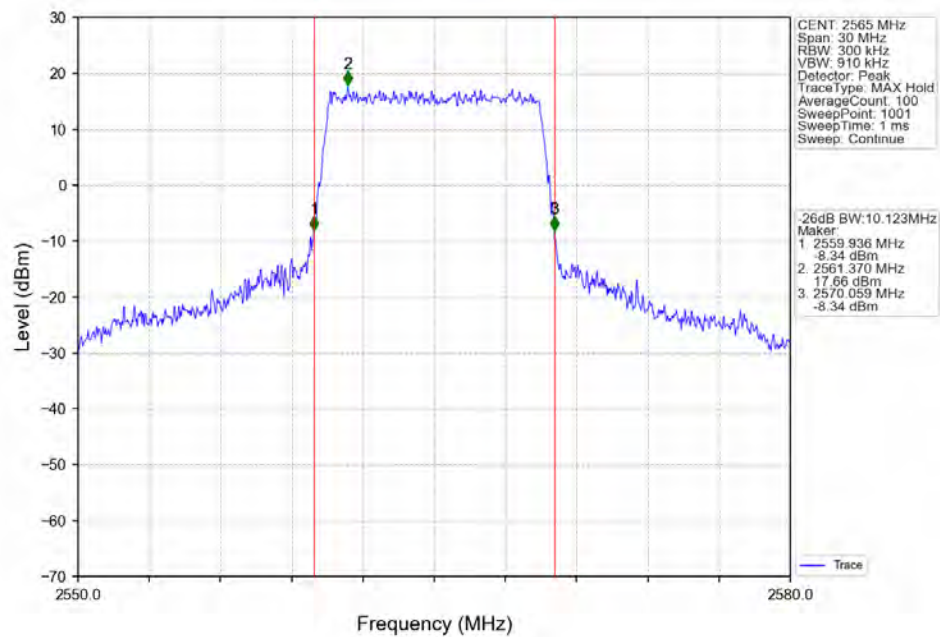
Band7_10MHz_16QAM_LCH_2505MHz_RB_50_0_NTNV



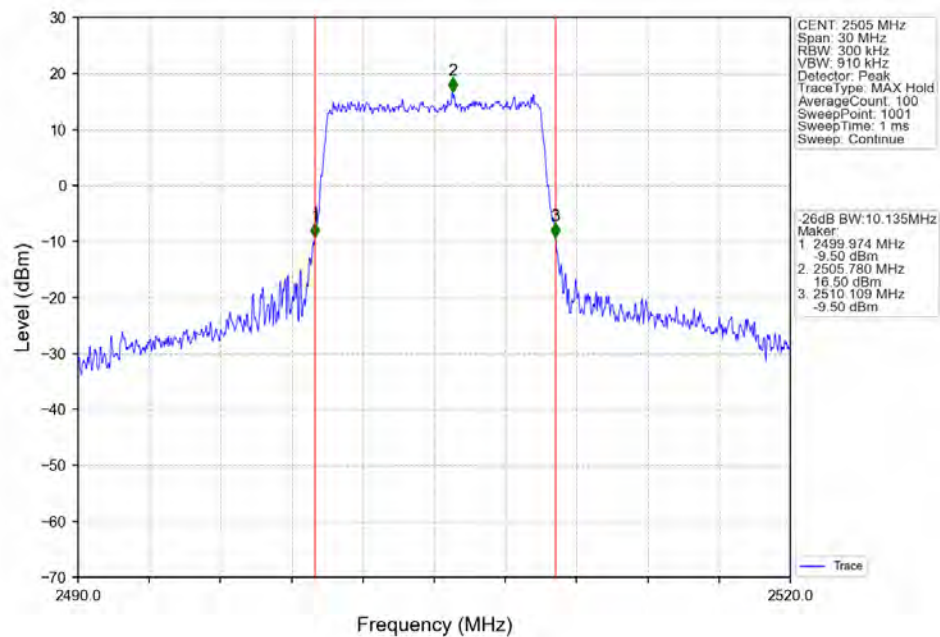
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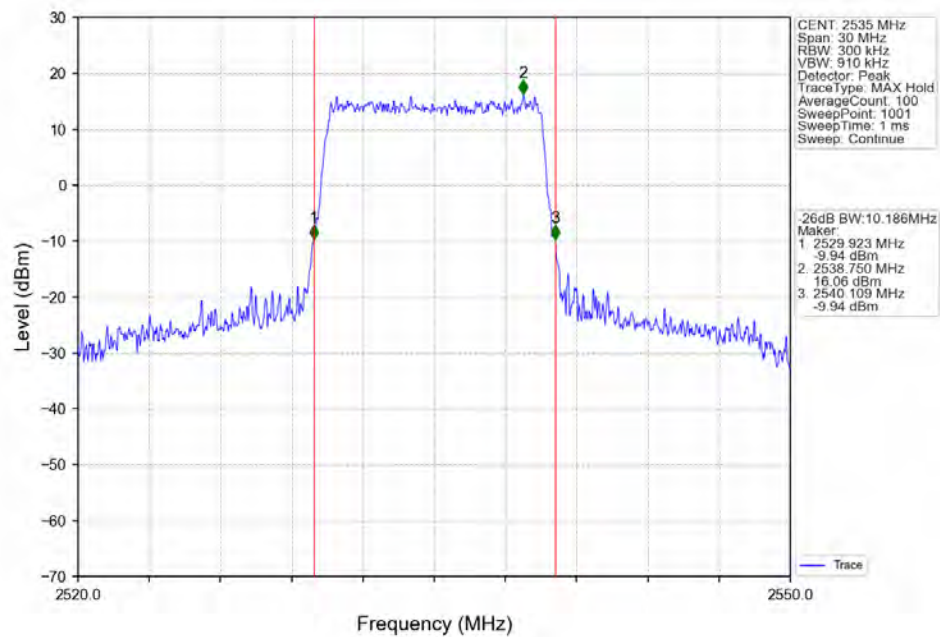
Band7 10MHz 16QAM HCH 2565MHz RB 50 0 NTNV



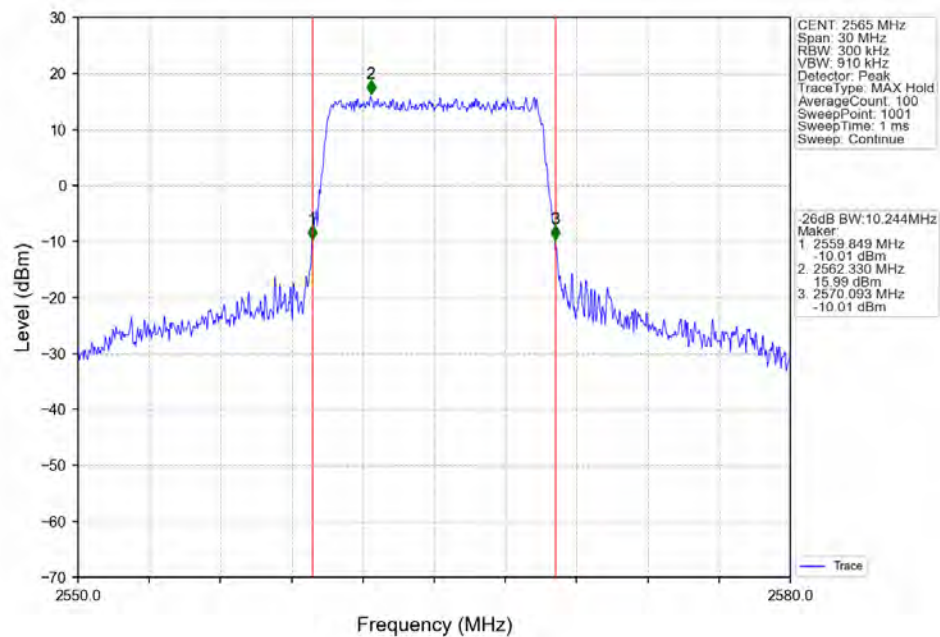
Band7 10MHz 64QAM LCH 2505MHz RB 50 0 NTNV



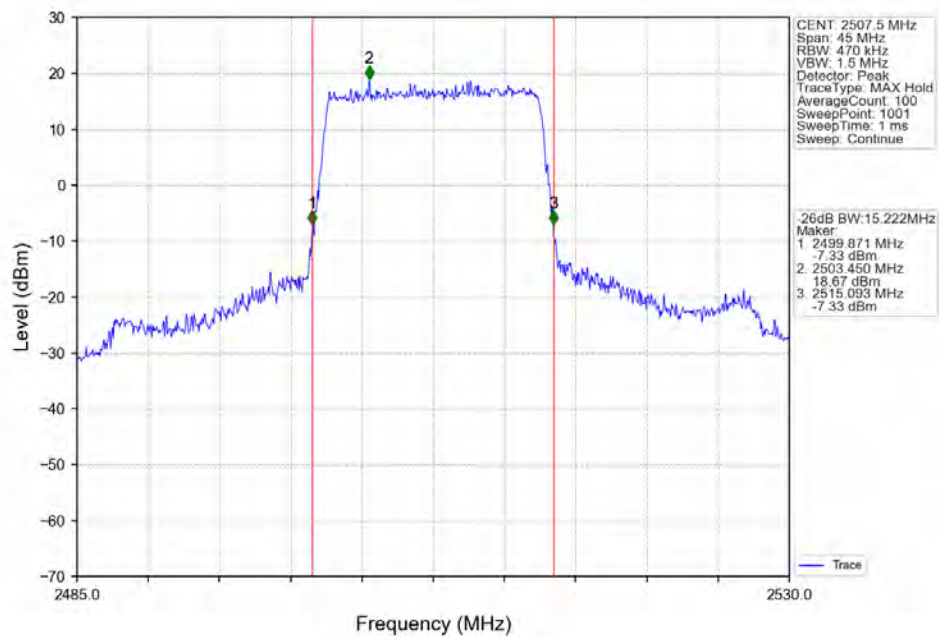
Band7 10MHz 64QAM MCH 2535MHz RB 50 0 NTNV



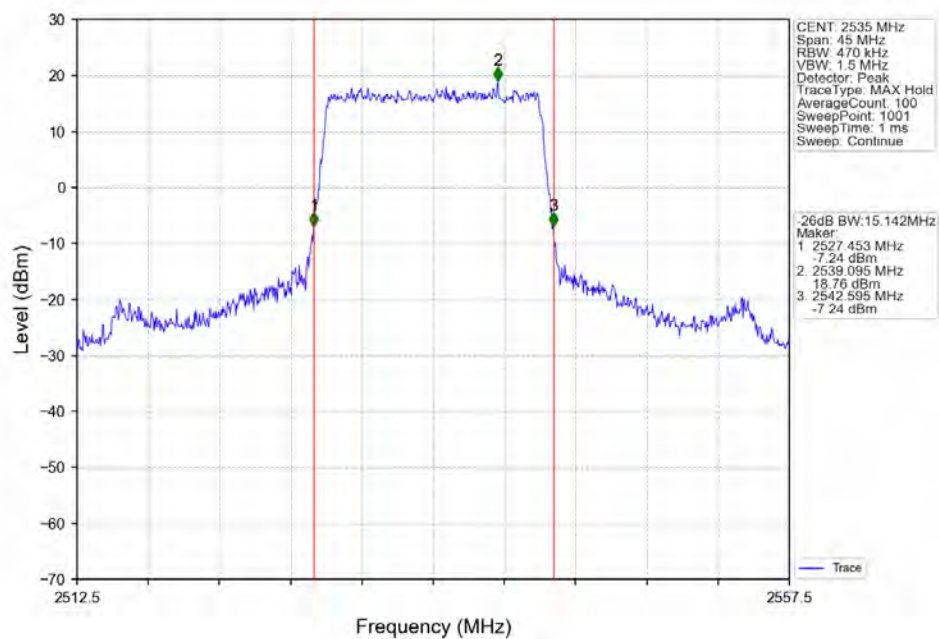
Band7 10MHz 64QAM HCH 2565MHz RB 50 0 NTNV



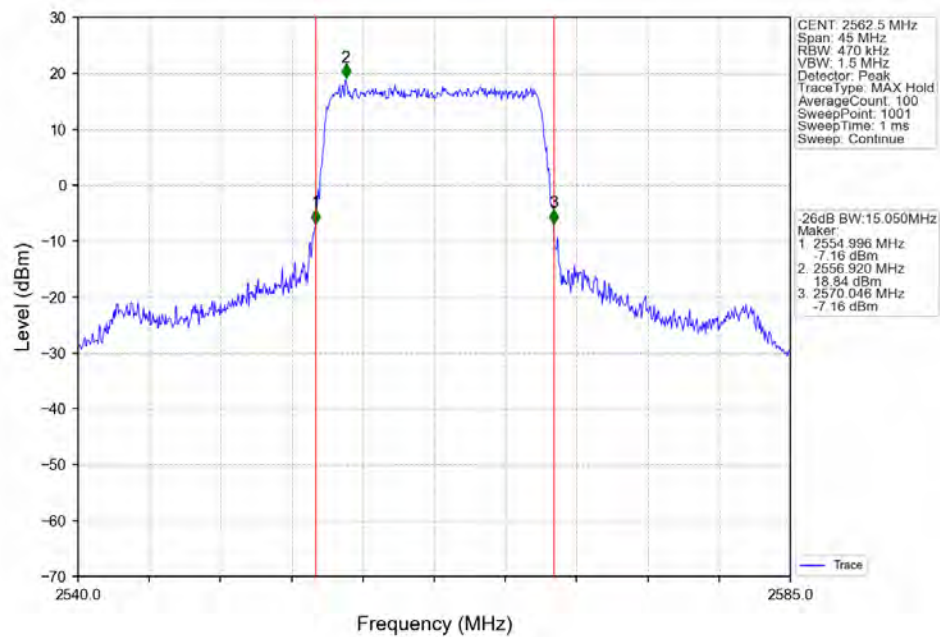
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



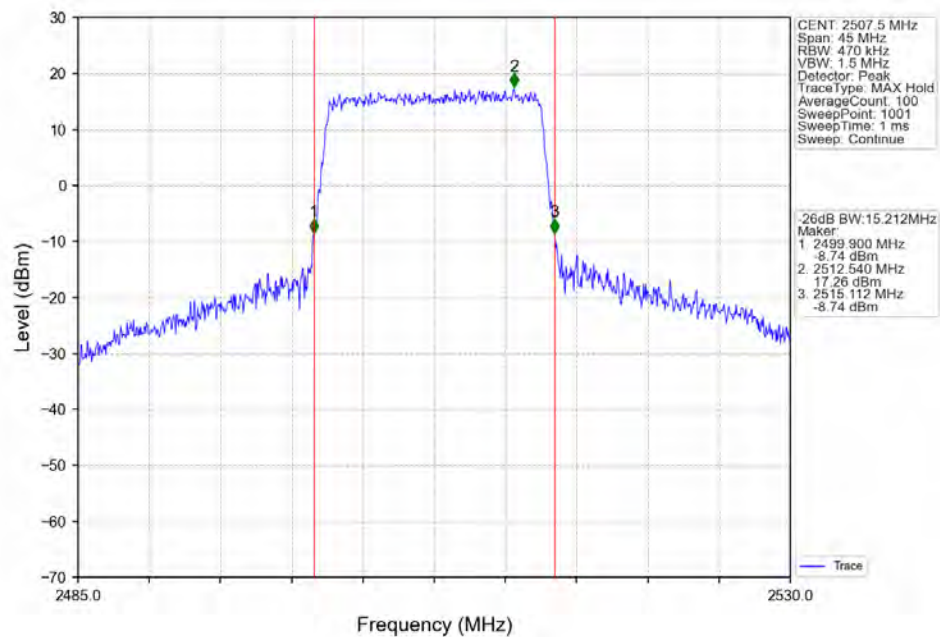
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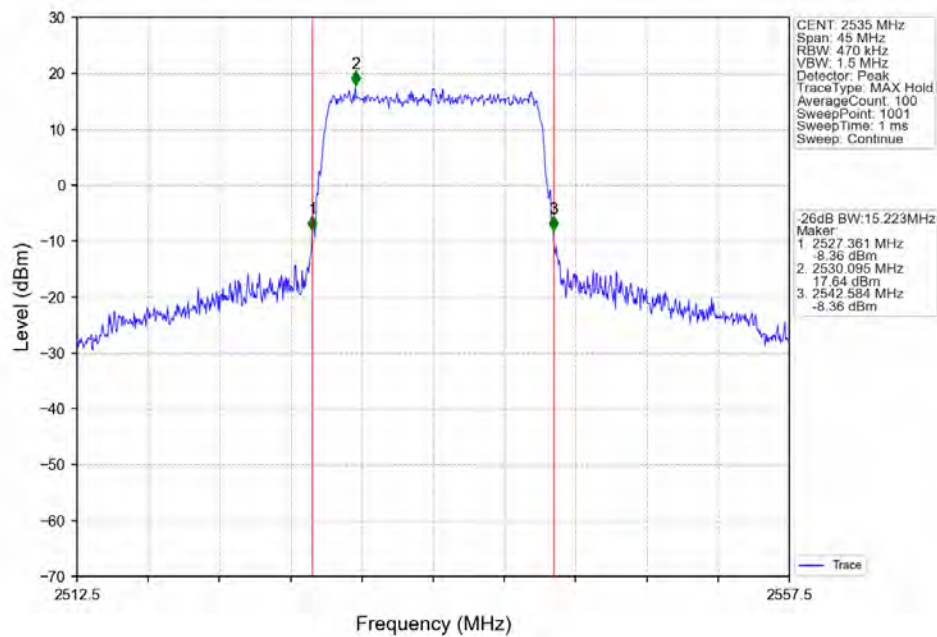
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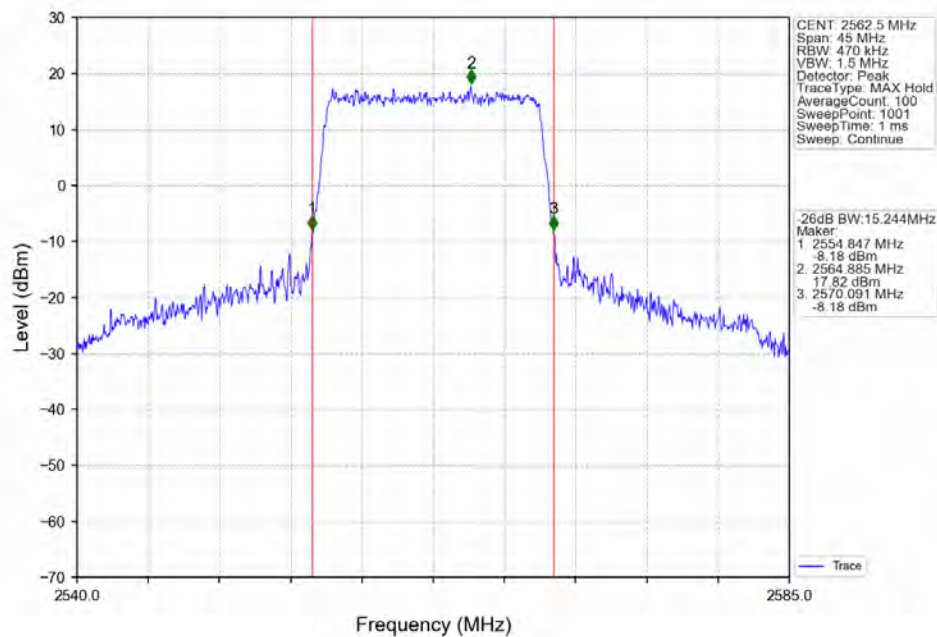
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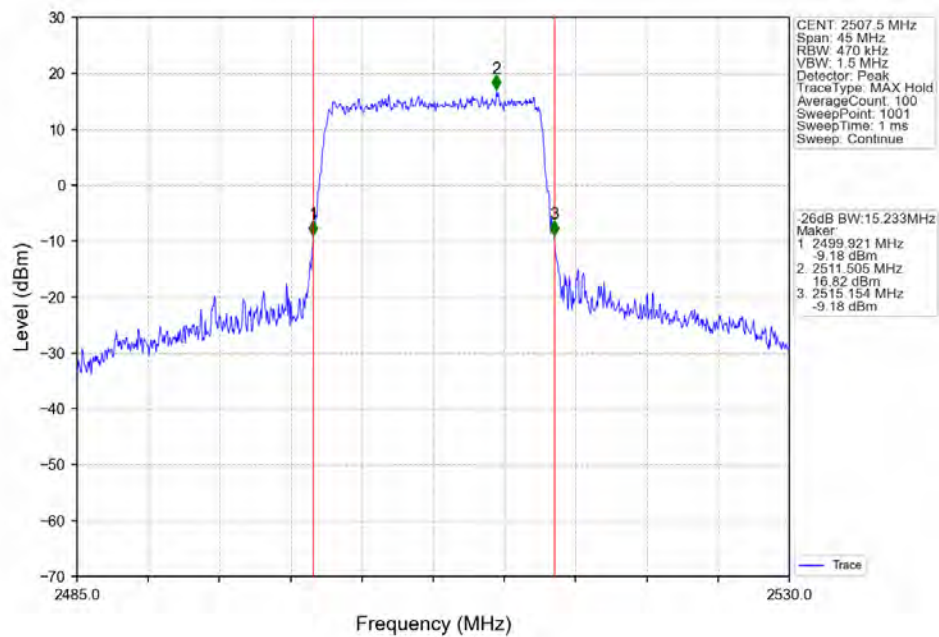
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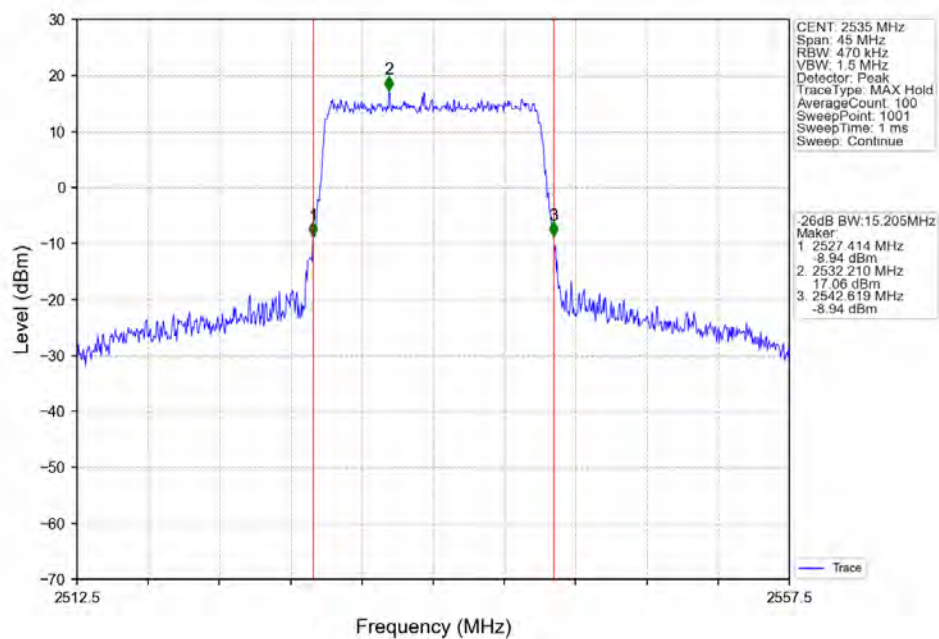
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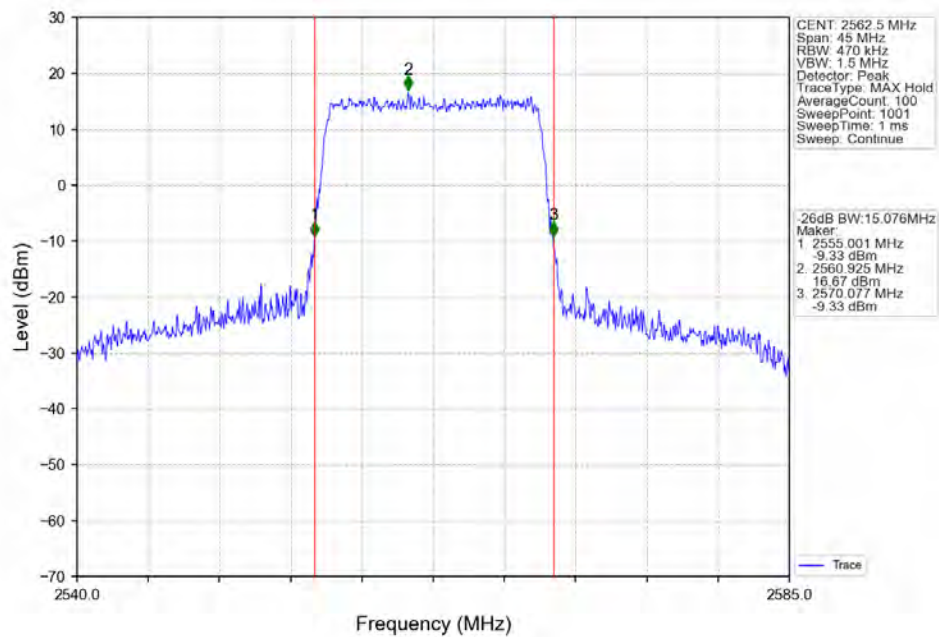
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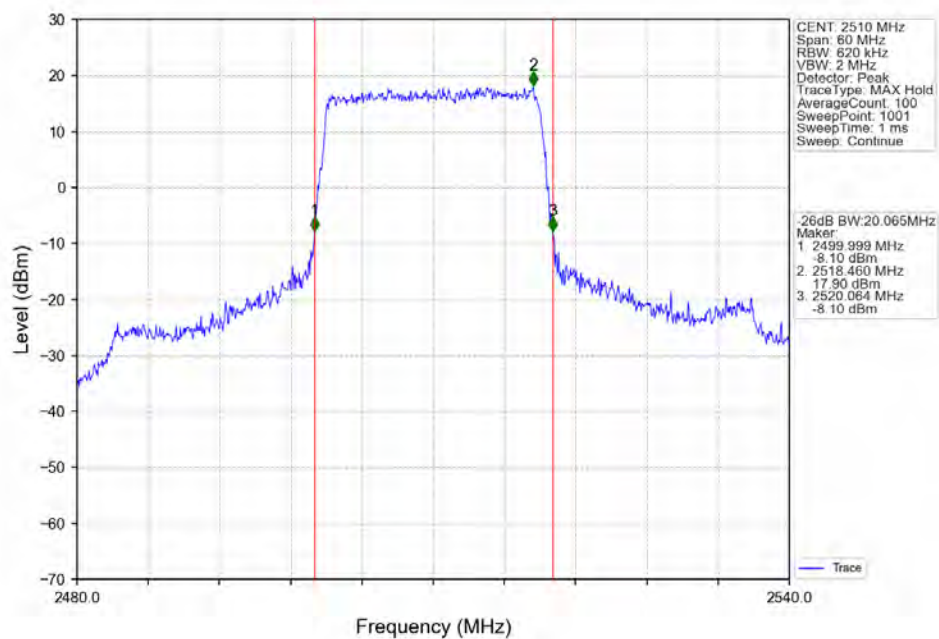
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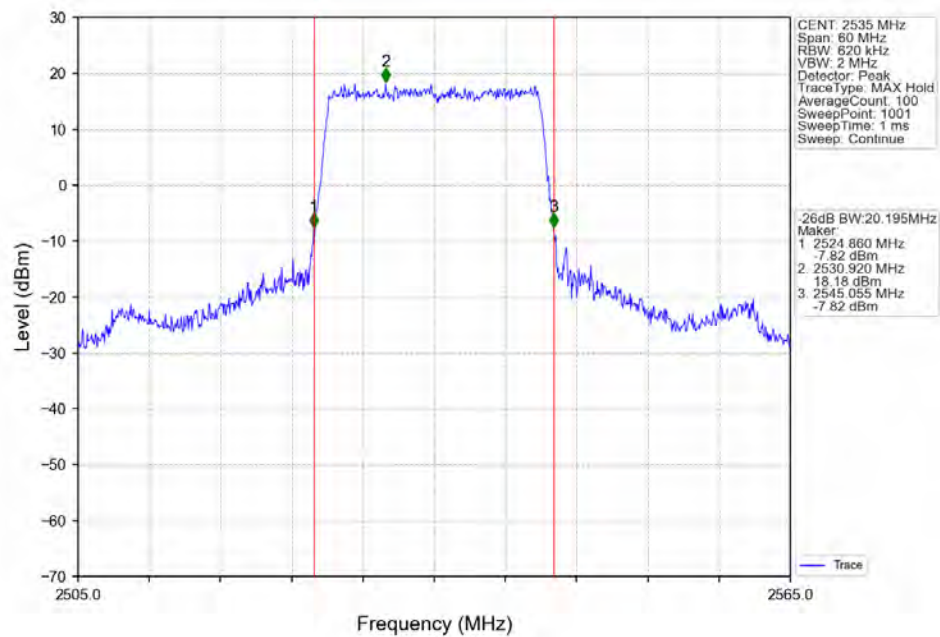
Band7 15MHz 64QAM HCH 2562.5MHz RB 75 0 NTN



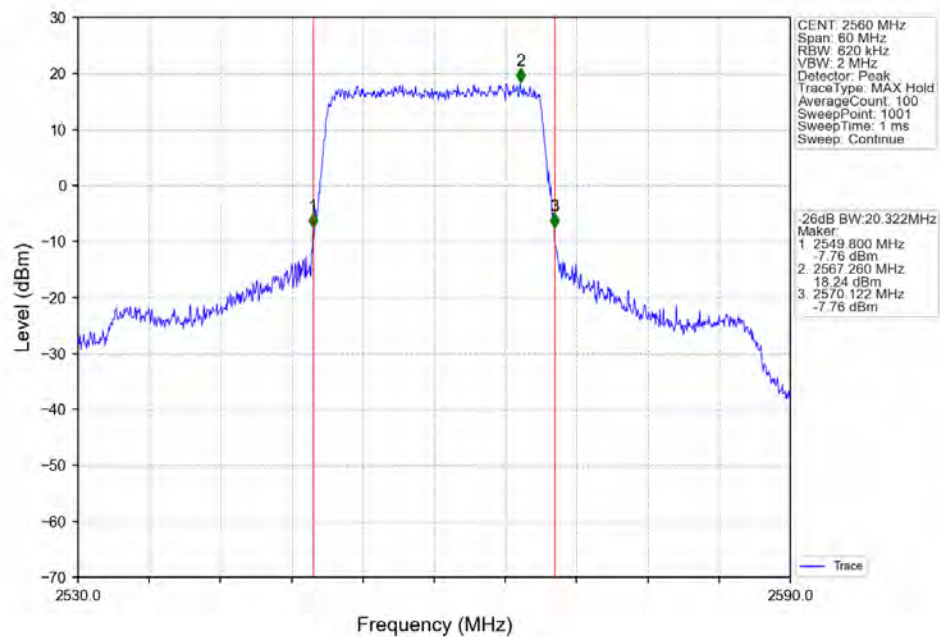
Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTN



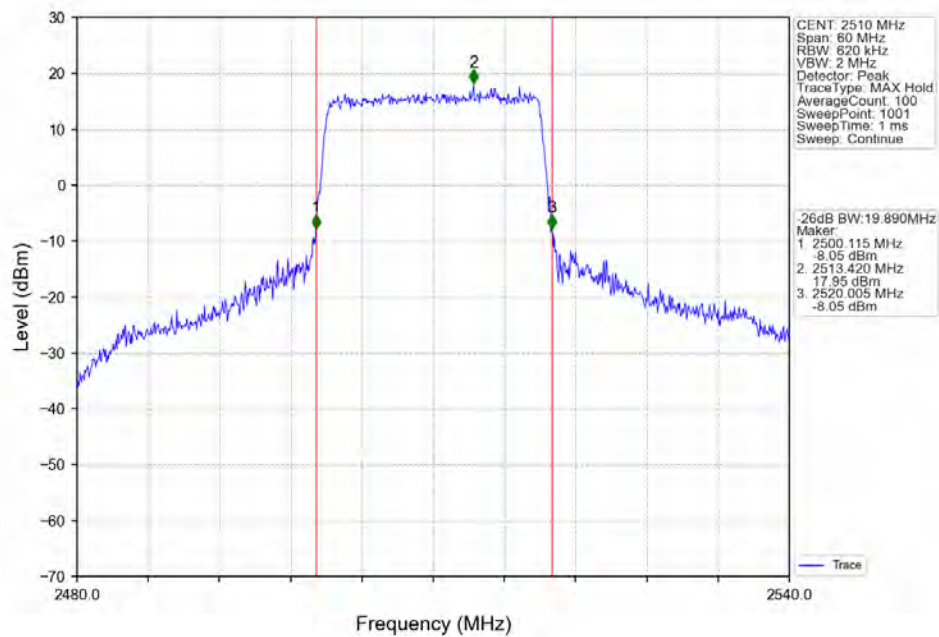
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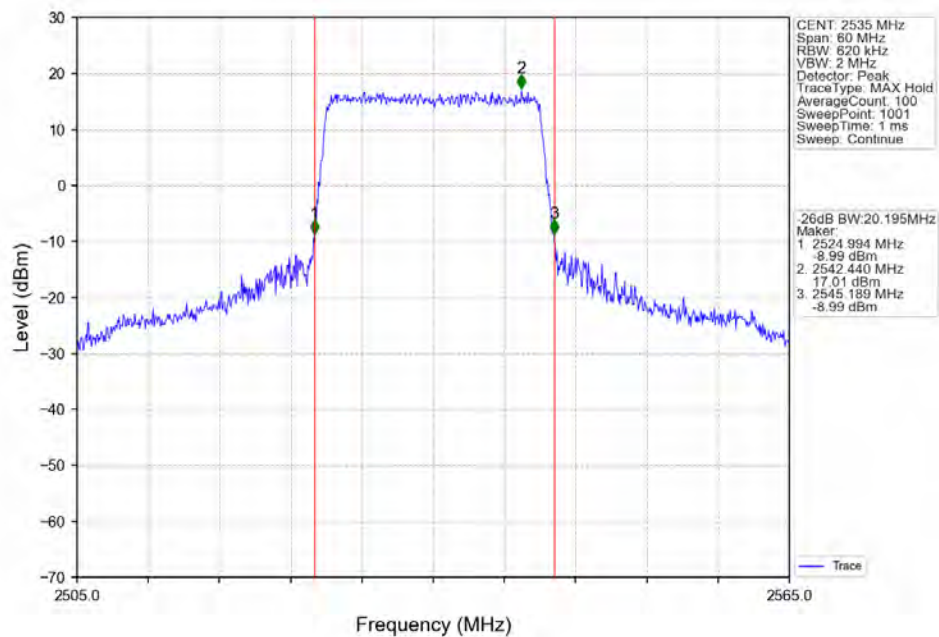
Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTNV



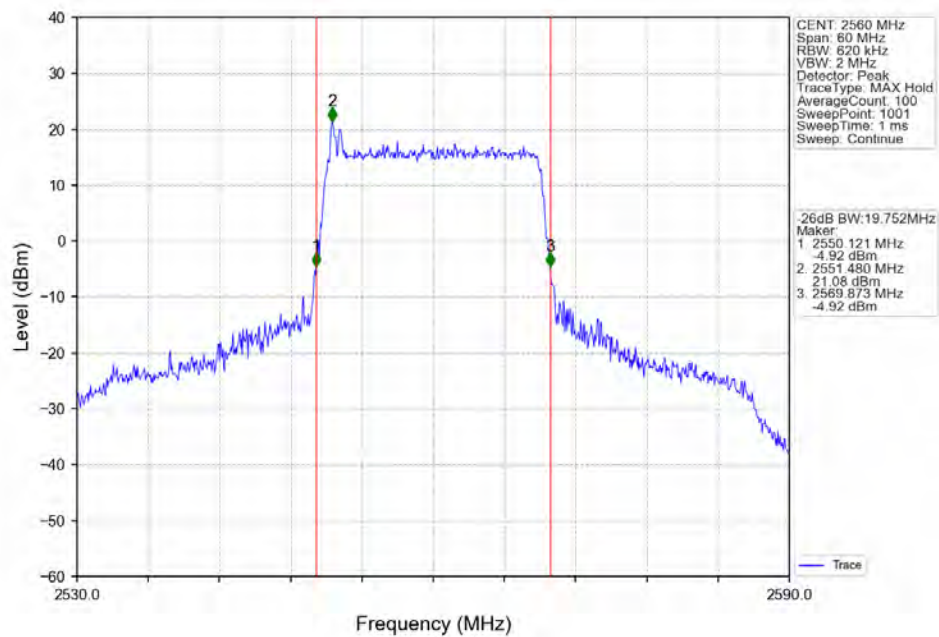
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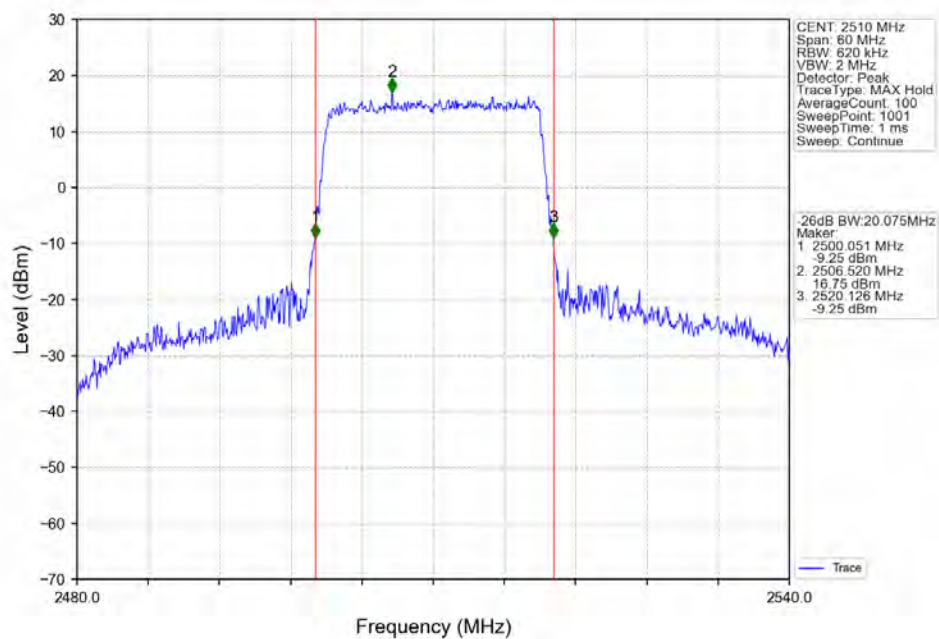
Band7 20MHz 16QAM MCH 2535MHz RB 100 0 NTNV

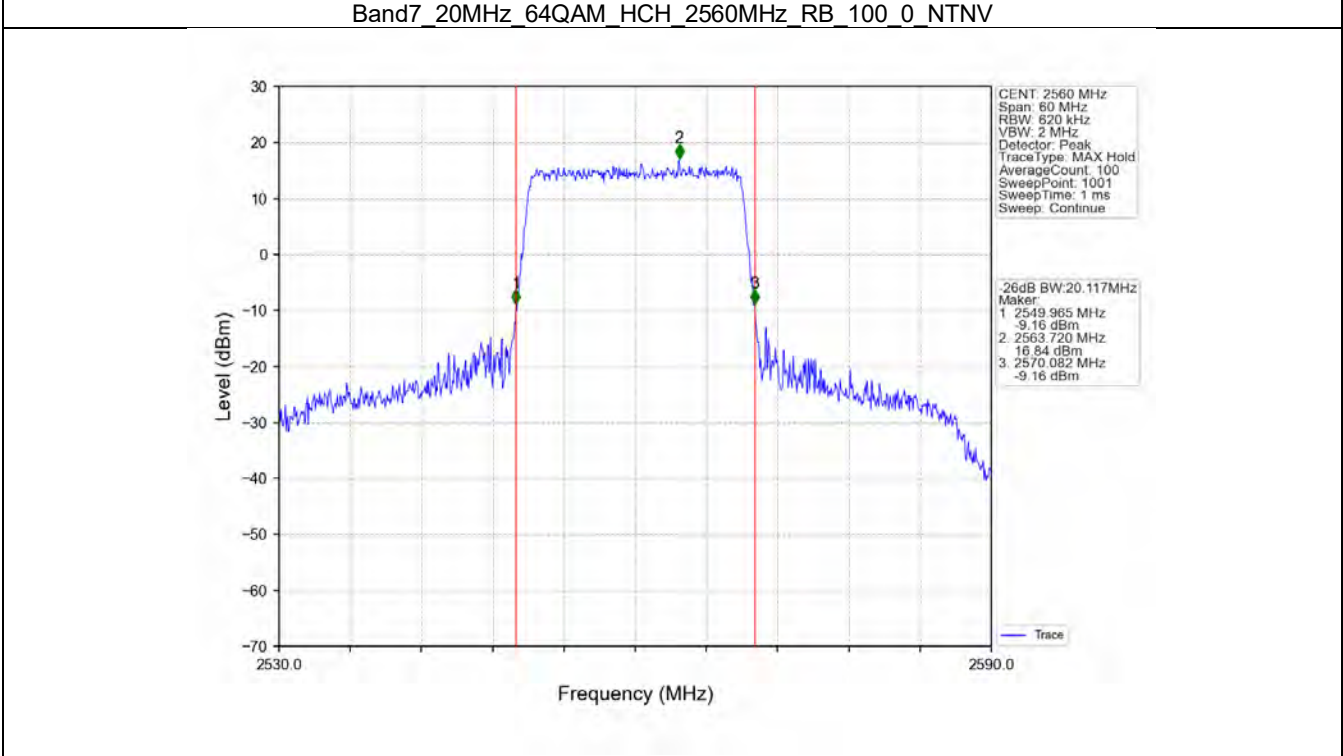
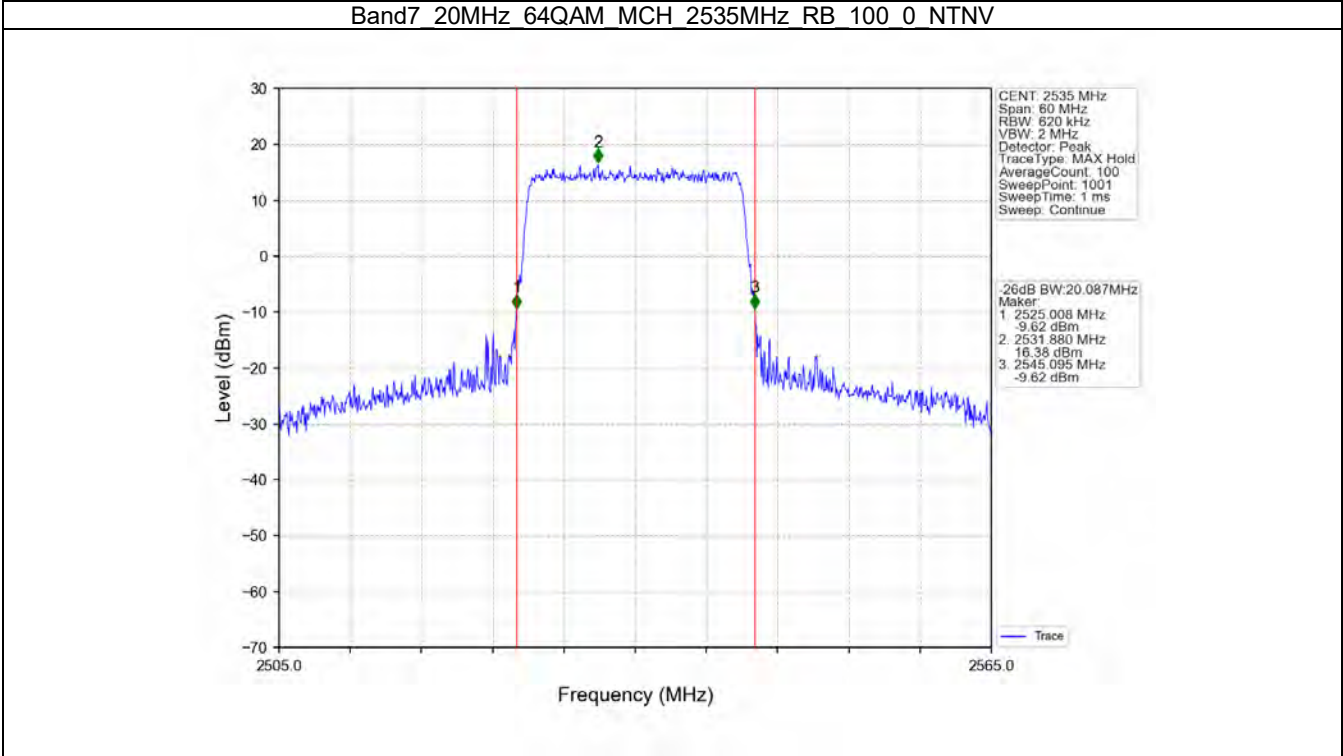


Band7 20MHz 16QAM HCH 2560MHz RB 100 0 NTNV



Band7 20MHz 64QAM LCH 2510MHz RB 100 0 NTNV





4. Peak-Average Ratio

4.1 Test Result

4.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2502.5	25	0	5.19	<=13	Pass
	2535	25	0	5.29	<=13	Pass
	2567.5	25	0	5.09	<=13	Pass
16QAM	2502.5	25	0	6.05	<=13	Pass
	2535	25	0	6.17	<=13	Pass
	2567.5	25	0	5.93	<=13	Pass
64QAM	2502.5	25	0	10.41	<=13	Pass
	2535	25	0	10.60	<=13	Pass
	2567.5	25	0	10.26	<=13	Pass

4.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2505	50	0	5.26	<=13	Pass
	2535	50	0	5.31	<=13	Pass
	2565	50	0	5.16	<=13	Pass
16QAM	2505	50	0	6.08	<=13	Pass
	2535	50	0	6.15	<=13	Pass
	2565	50	0	6.01	<=13	Pass
64QAM	2505	50	0	6.48	<=13	Pass
	2535	50	0	11.94	<=13	Pass
	2565	50	0	11.77	<=13	Pass

4.1.3 B7_15MHz

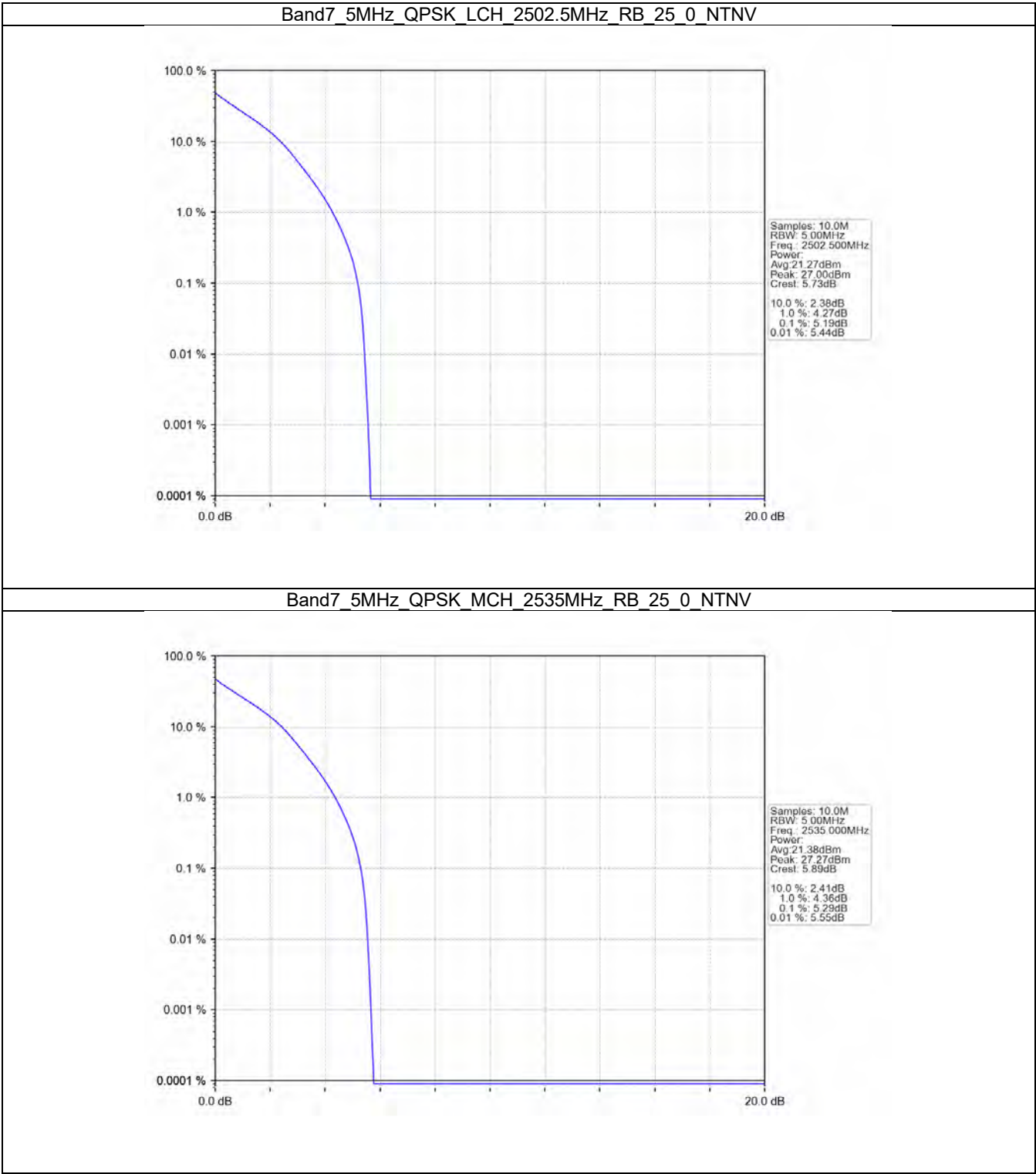
Band: 7 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2507.5	75	0	5.14	<=13	Pass
	2535	75	0	5.31	<=13	Pass
	2562.5	75	0	5.21	<=13	Pass
16QAM	2507.5	75	0	5.98	<=13	Pass
	2535	75	0	6.14	<=13	Pass
	2562.5	75	0	6.03	<=13	Pass
64QAM	2507.5	75	0	6.42	<=13	Pass
	2535	75	0	6.56	<=13	Pass
	2562.5	75	0	11.22	<=13	Pass

4.1.4 B7_20MHz

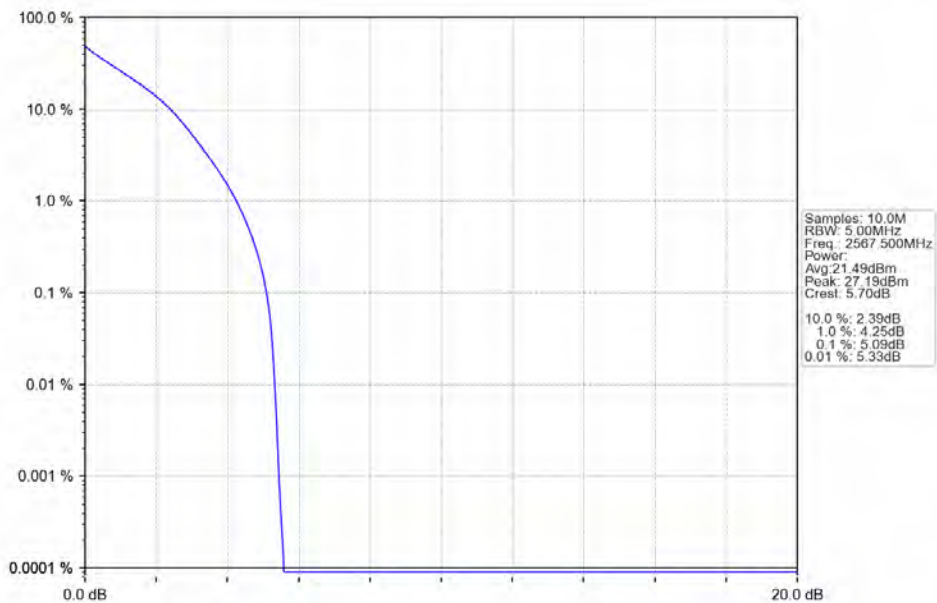
Band: 7 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2510	100	0	5.09	<=13	Pass
	2535	100	0	5.28	<=13	Pass
	2560	100	0	5.19	<=13	Pass
16QAM	2510	100	0	5.97	<=13	Pass
	2535	100	0	6.14	<=13	Pass
	2560	100	0	6.06	<=13	Pass
64QAM	2510	100	0	6.41	<=13	Pass
	2535	100	0	11.57	<=13	Pass
	2560	100	0	11.53	<=13	Pass

4.2 Test Graph

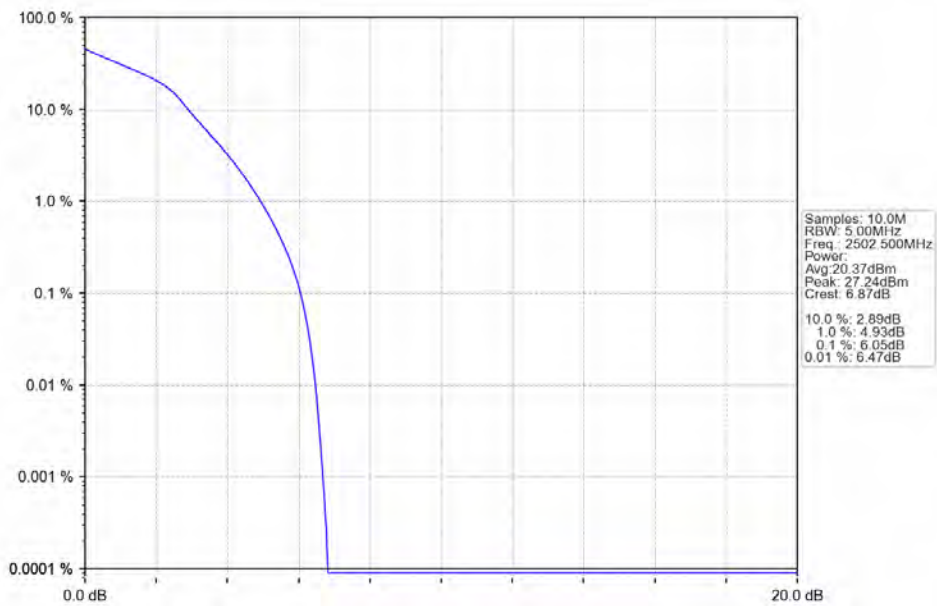
4.2.1 B7_5MHz



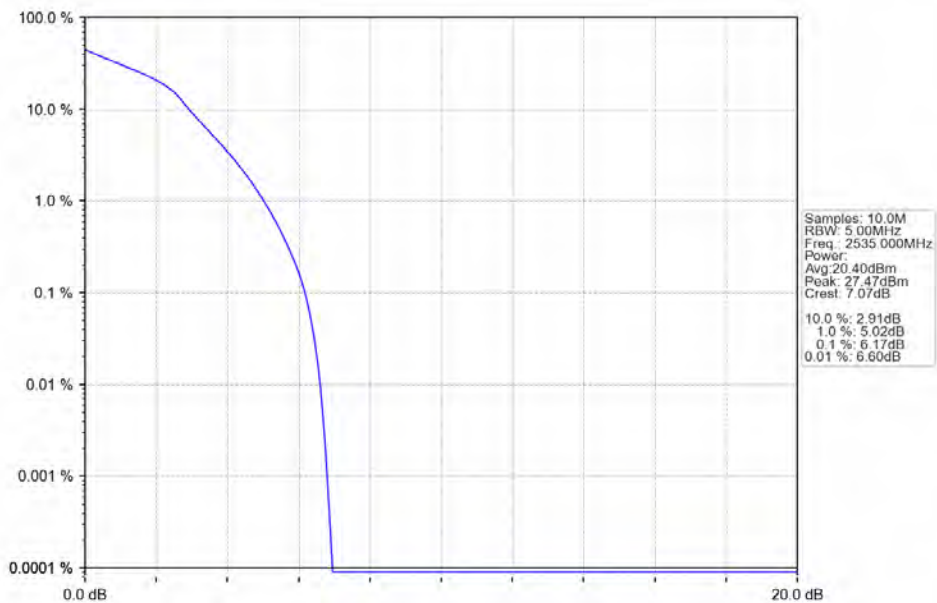
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTN



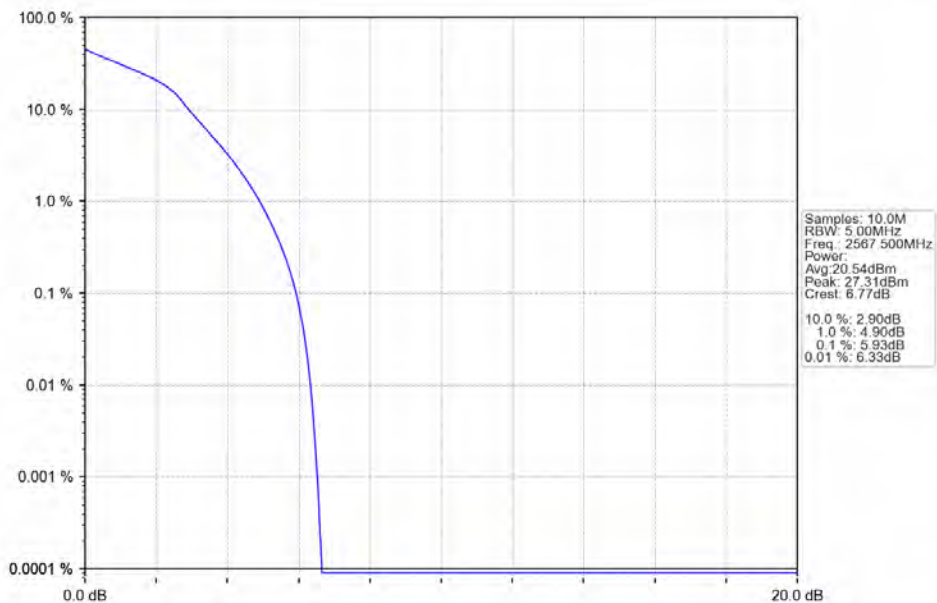
Band7 5MHz 16QAM LCH 2502.5MHz RB 25 0 NTN



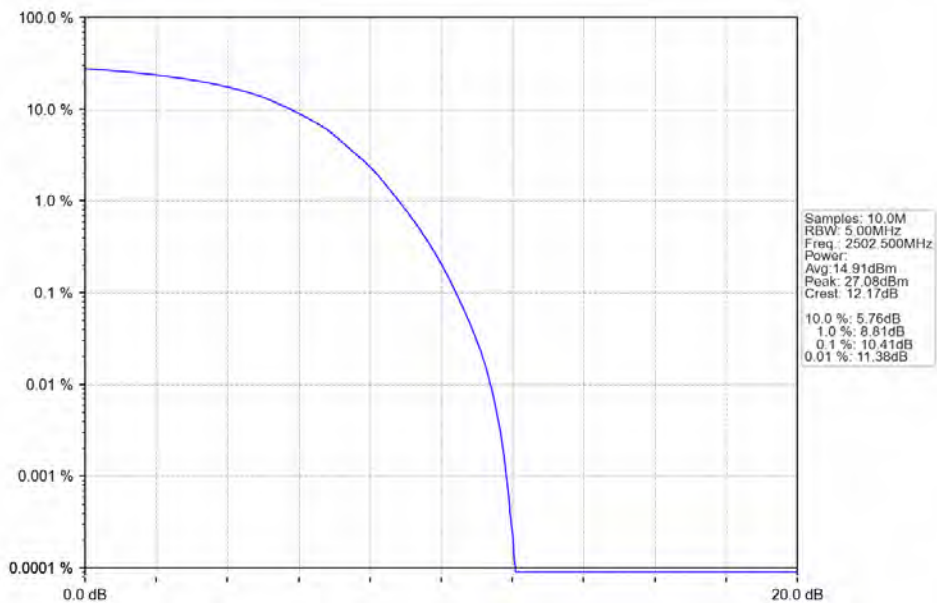
Band7 5MHz 16QAM MCH 2535MHz RB 25 0 NTV



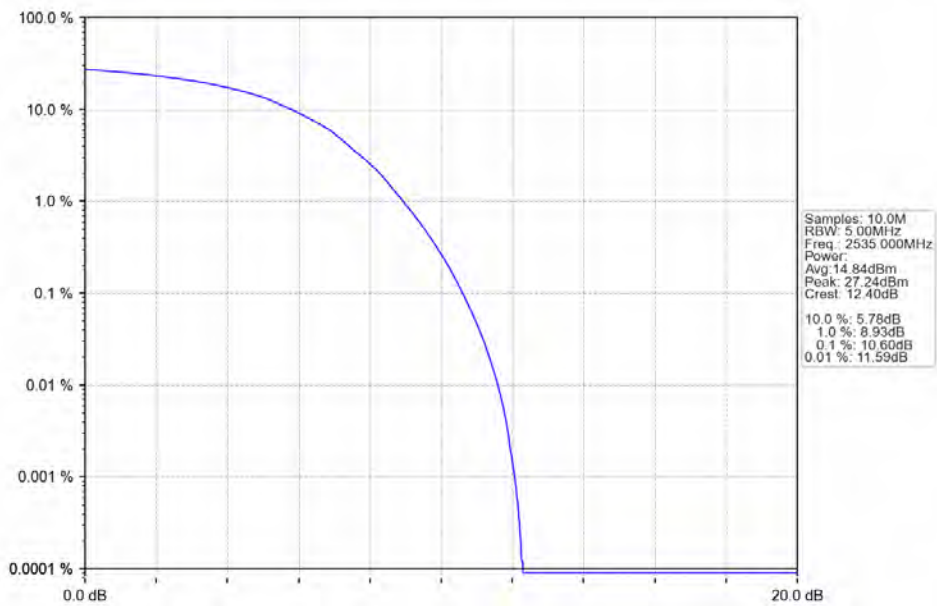
Band7 5MHz 16QAM HCH 2567.5MHz RB 25 0 NTV



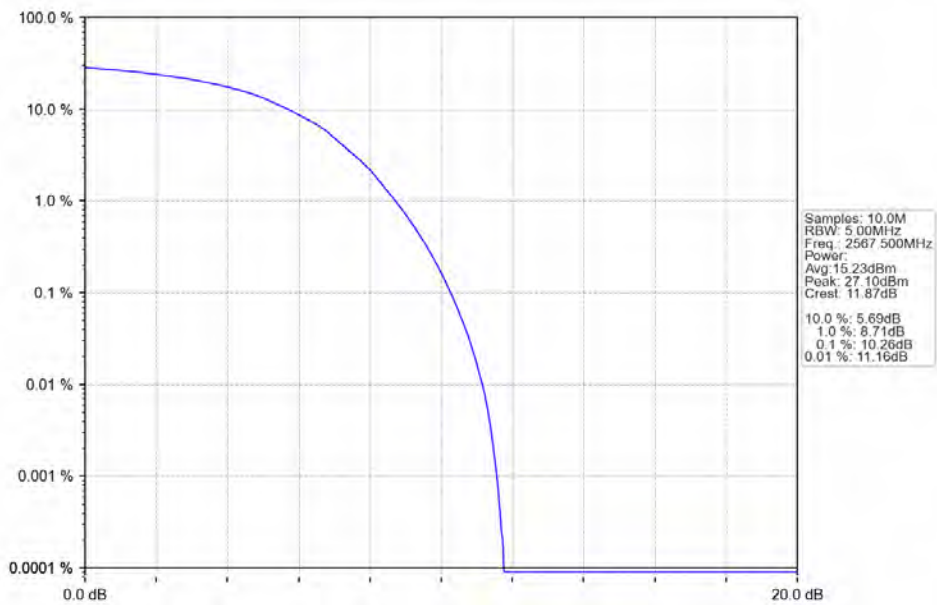
Band7 5MHz 64QAM LCH 2502.5MHz RB 25 0 NTV



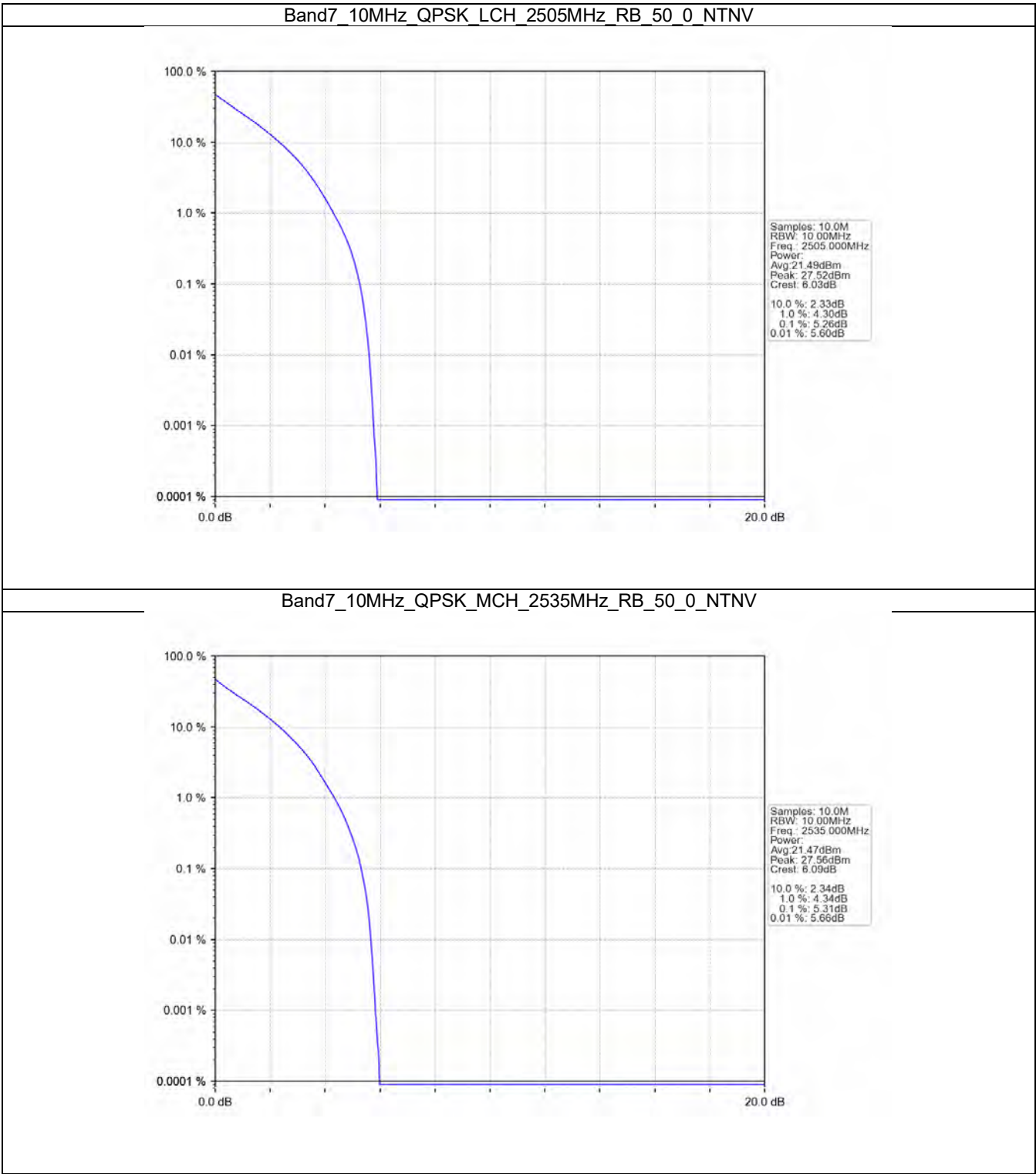
Band7 5MHz 64QAM MCH 2535MHz RB 25 0 NTV



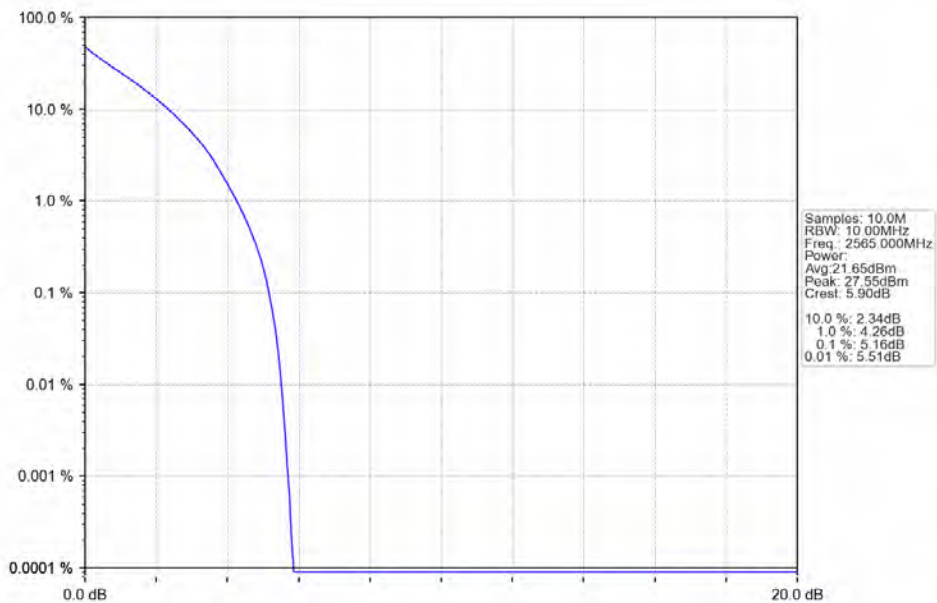
Band7 5MHz 64QAM HCH 2567.5MHz RB 25 0 NTNV



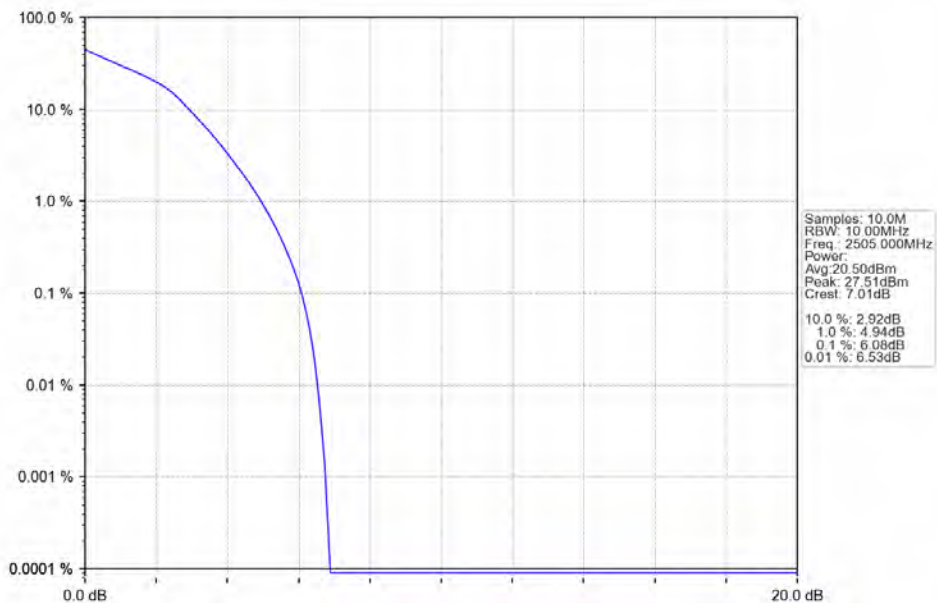
4.2.2 B7_10MHz



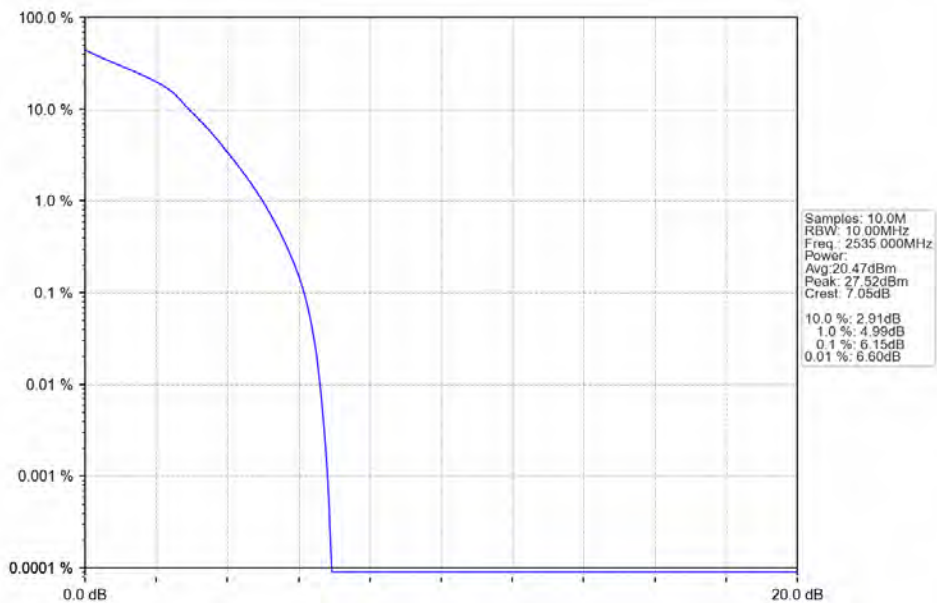
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTN



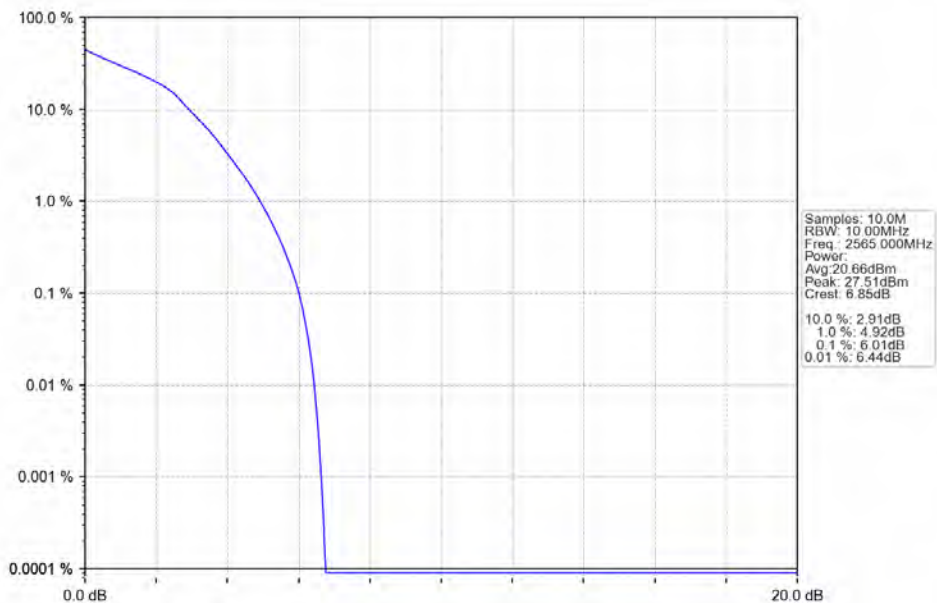
Band7 10MHz 16QAM LCH 2505MHz RB 50 0 NTN



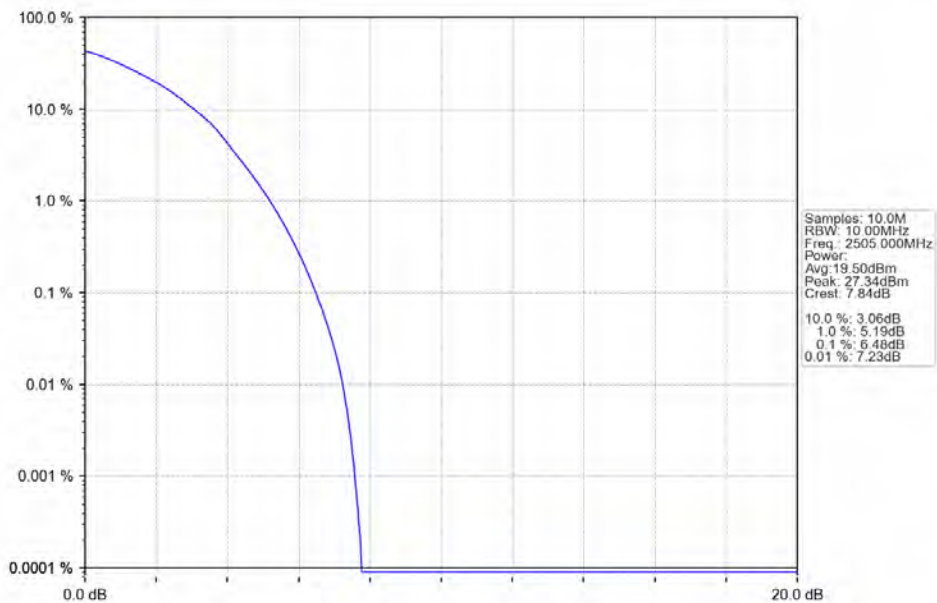
Band7_10MHz_16QAM_MCH_2535MHz_RB_50_0_NTNV



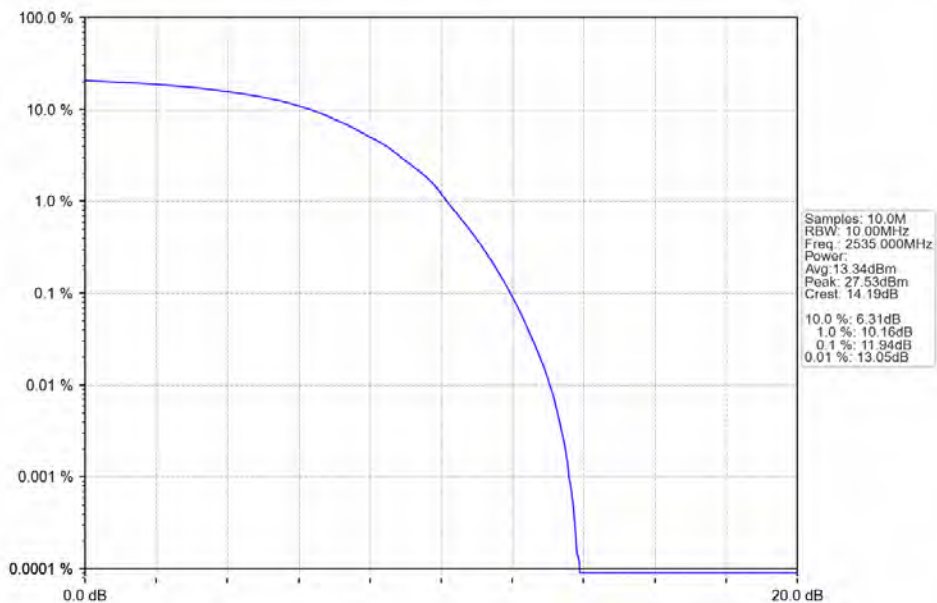
Band7_10MHz_16QAM_HCH_2565MHz_RB_50_0_NTNV



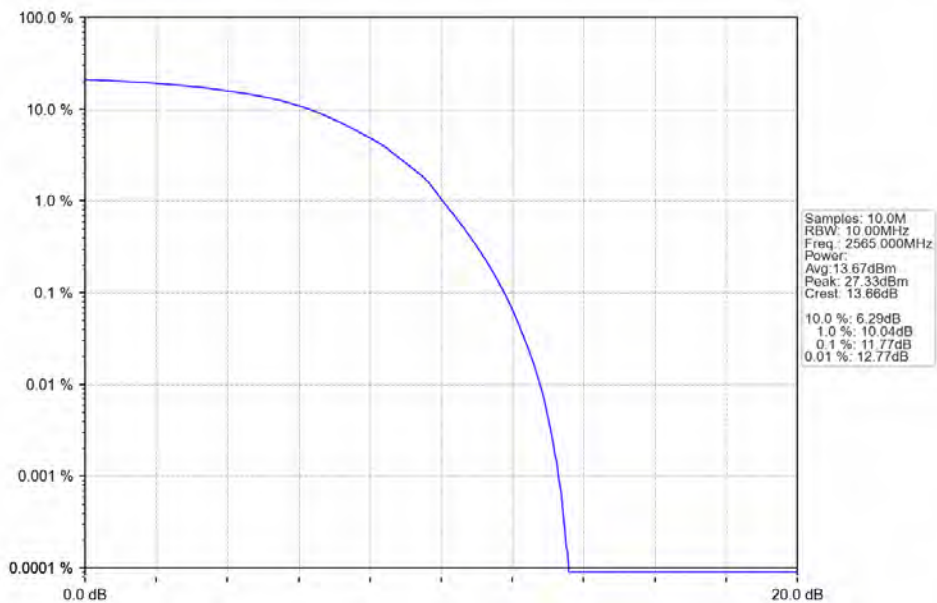
Band7 10MHz 64QAM LCH 2505MHz RB 50 0 NTV



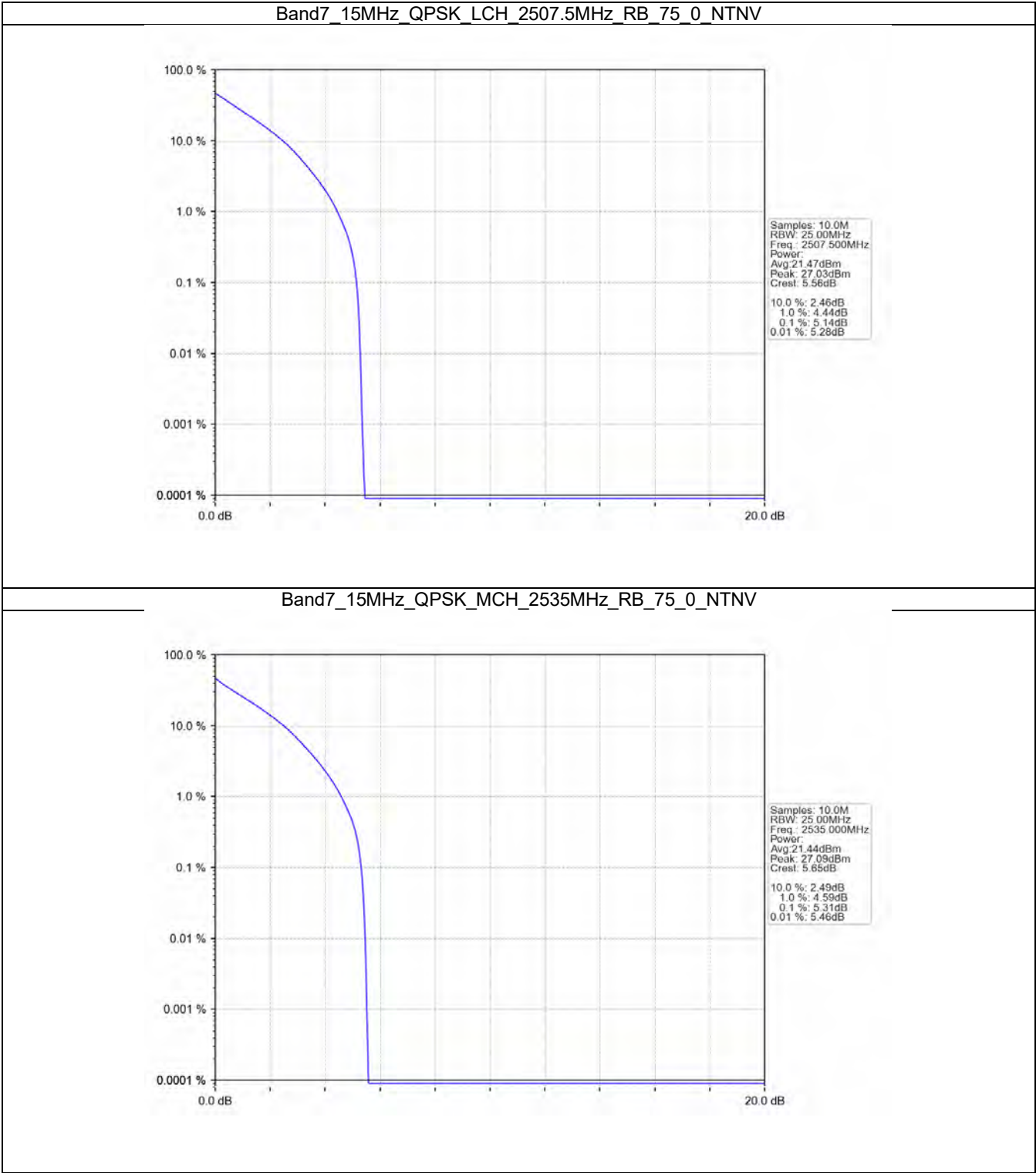
Band7 10MHz 64QAM MCH 2535MHz RB 50 0 NTV



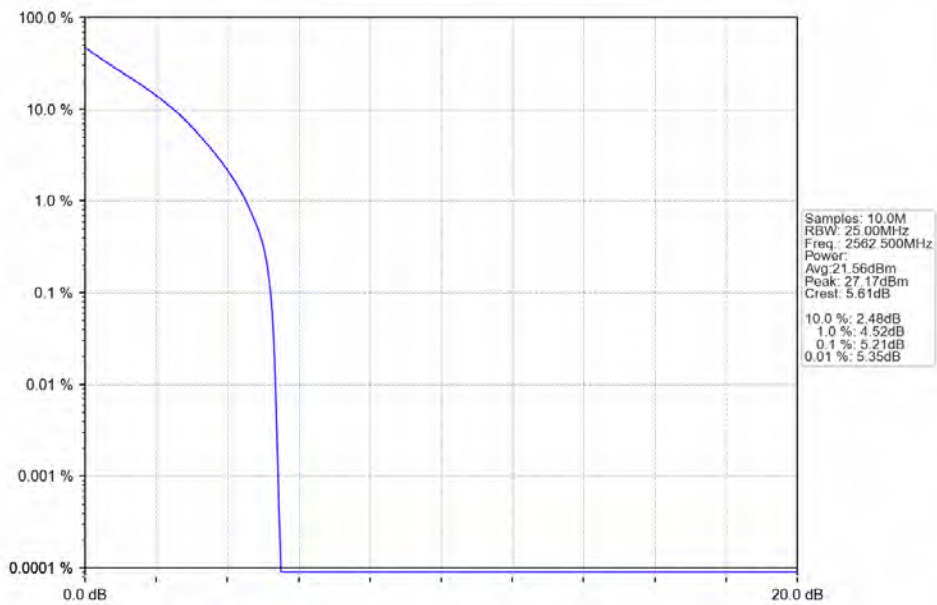
Band7 10MHz 64QAM HCH 2565MHz RB 50 0 NTNV



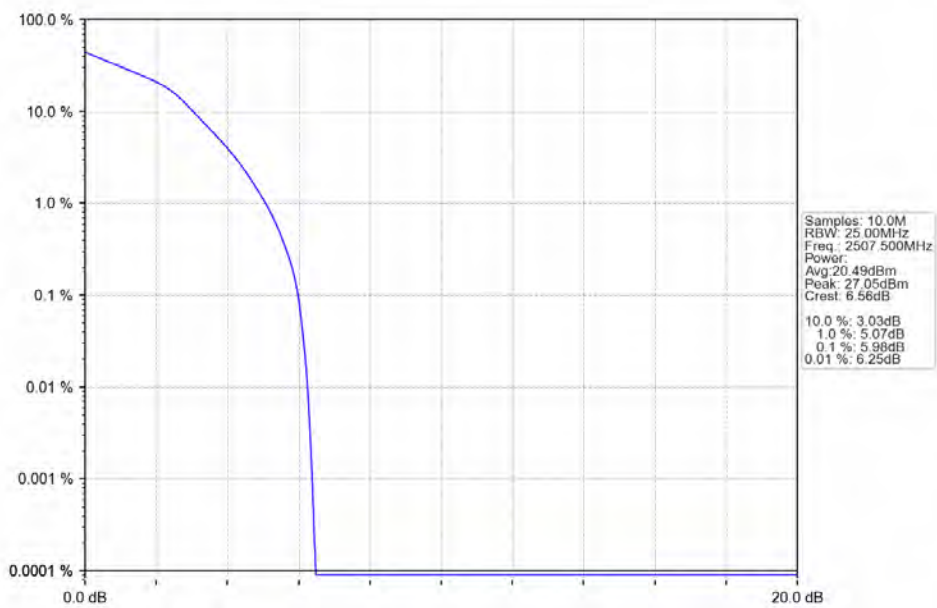
4.2.3 B7_15MHz



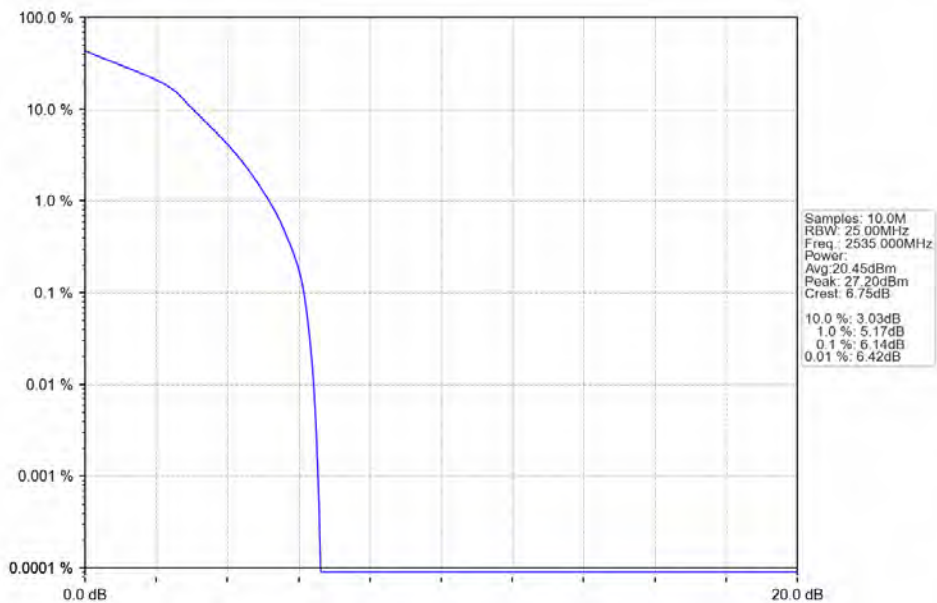
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTNV



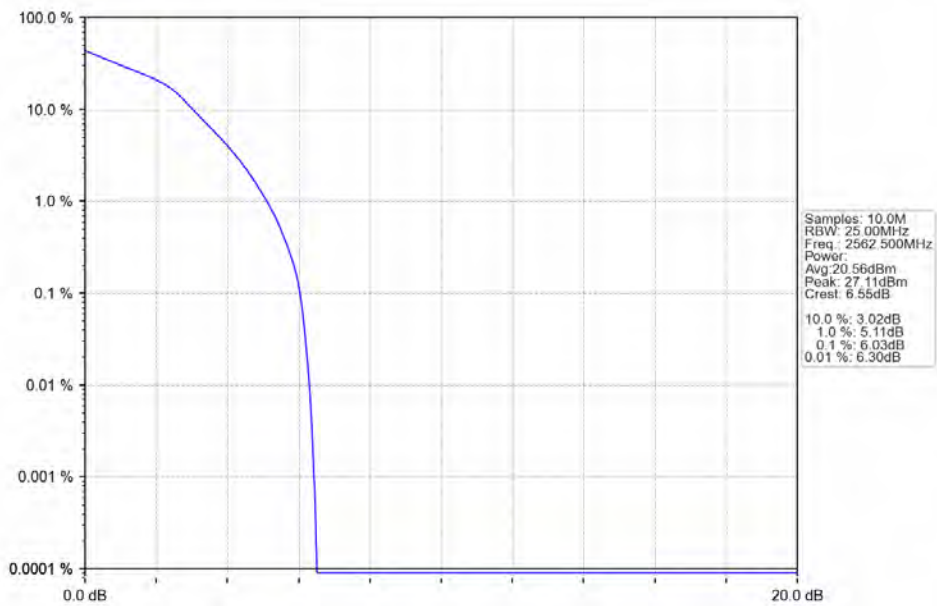
Band7 15MHz 16QAM LCH 2507.5MHz RB 75 0 NTNV



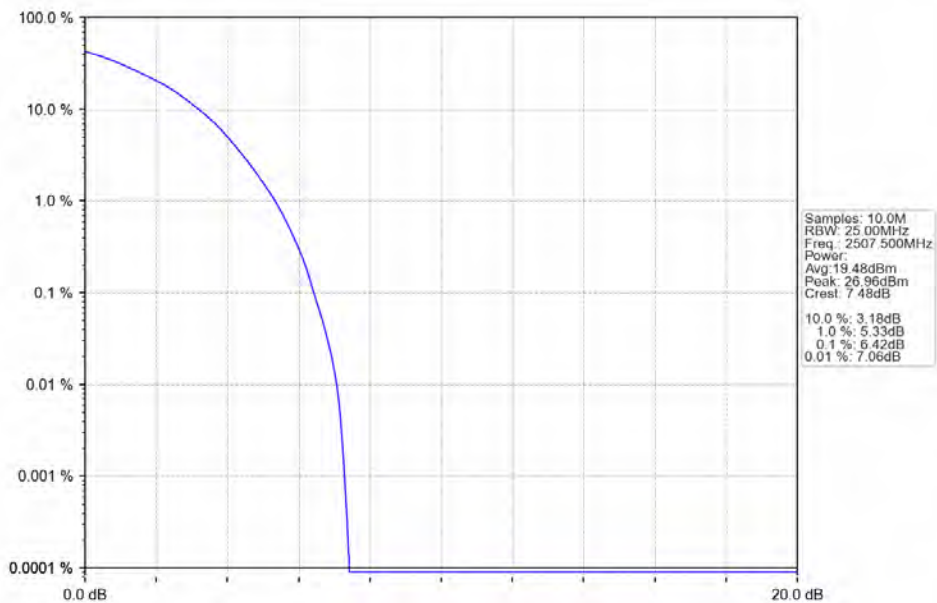
Band7 15MHz 16QAM MCH 2535MHz RB 75 0 NTNV



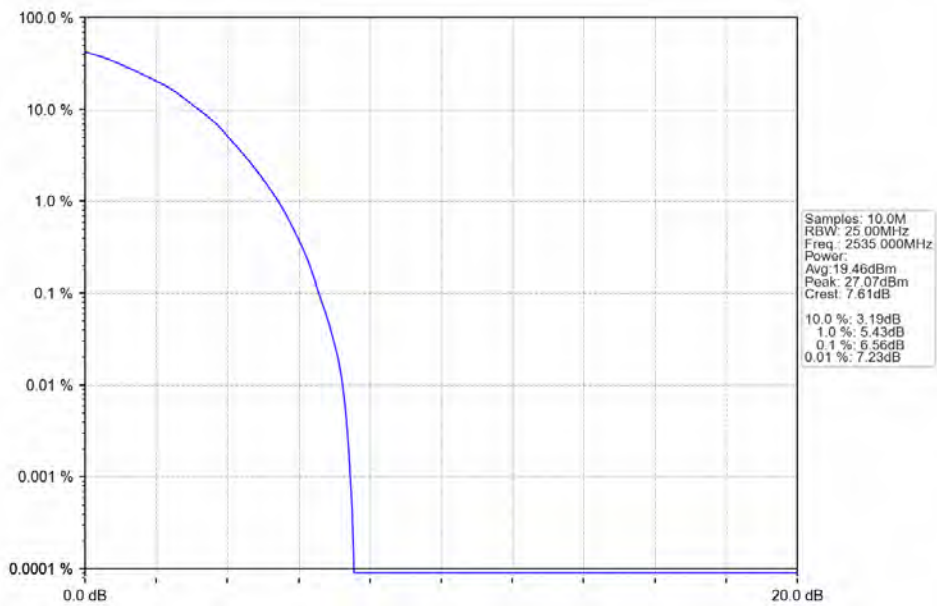
Band7 15MHz 16QAM HCH 2562.5MHz RB 75 0 NTNV



Band7 15MHz 64QAM LCH 2507.5MHz RB 75 0 NTNV

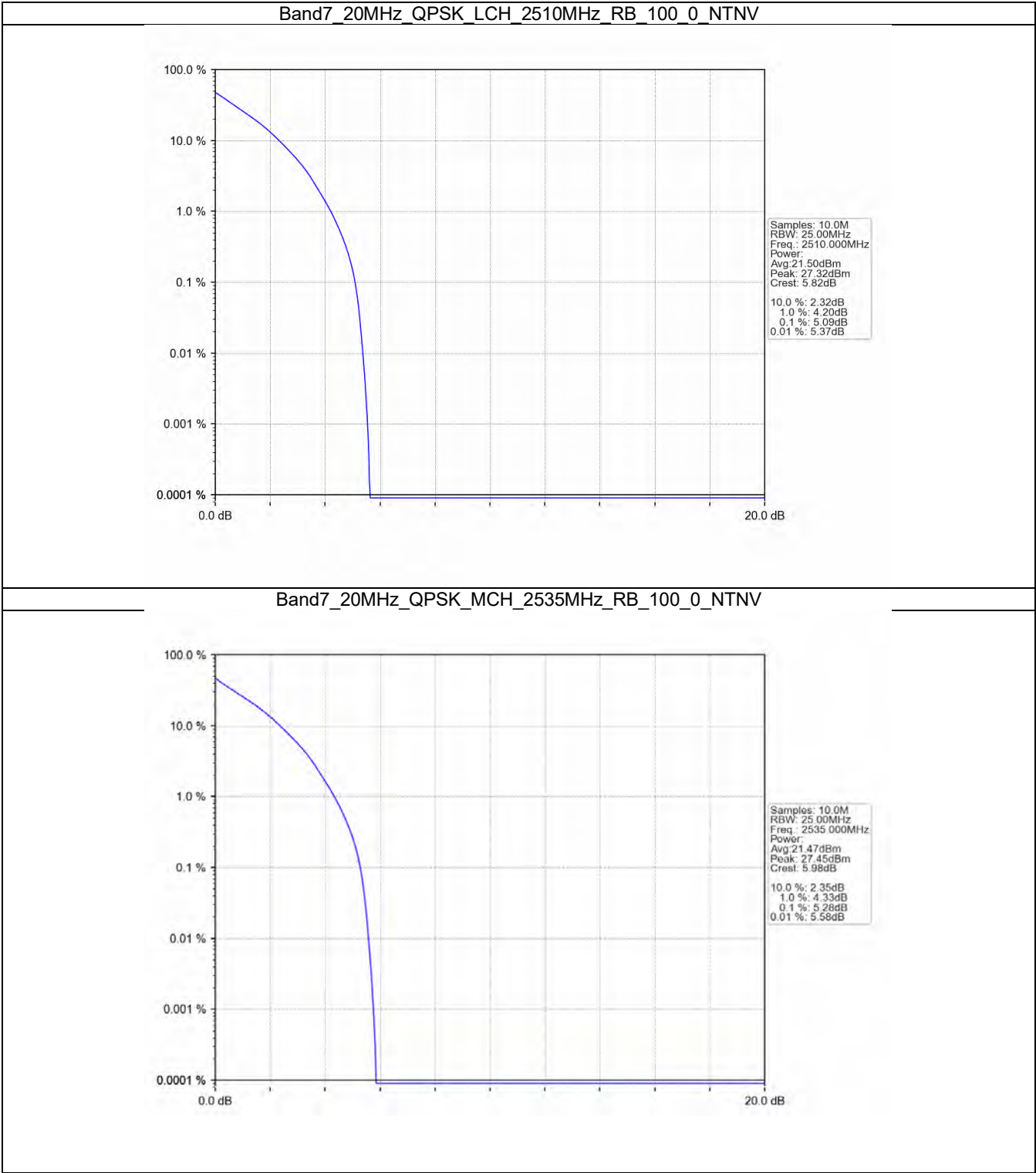


Band7 15MHz 64QAM MCH 2535MHz RB 75 0 NTNV

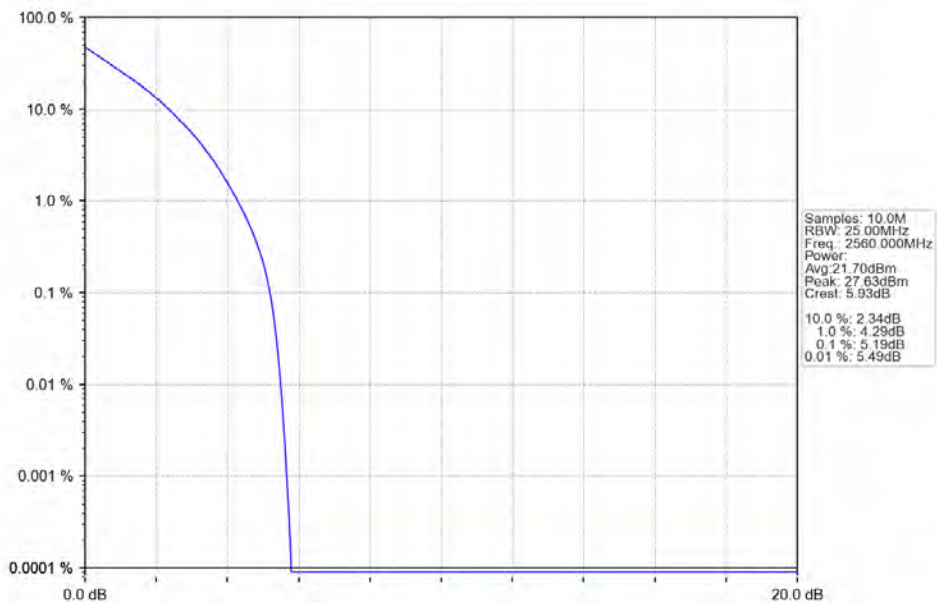




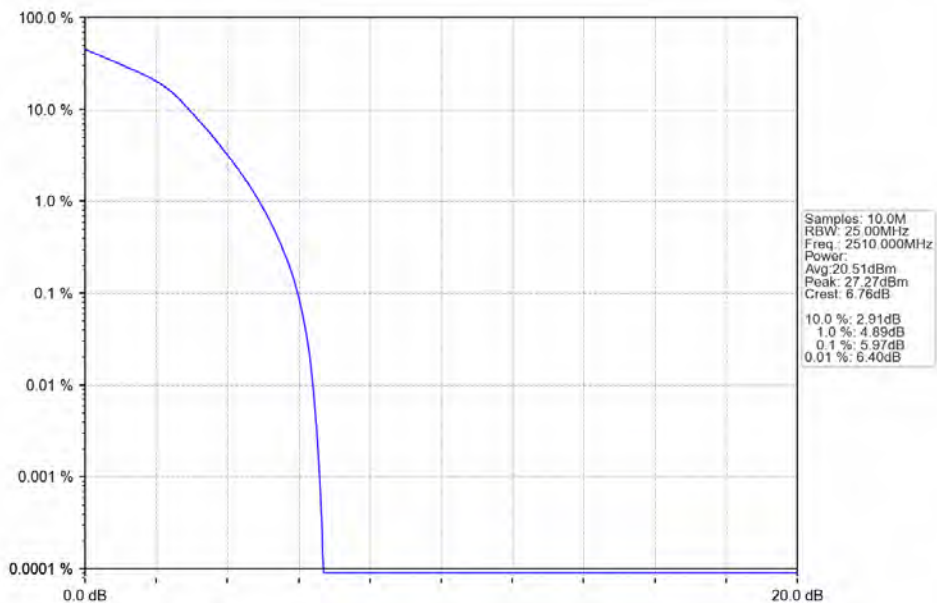
4.2.4 B7_20MHz

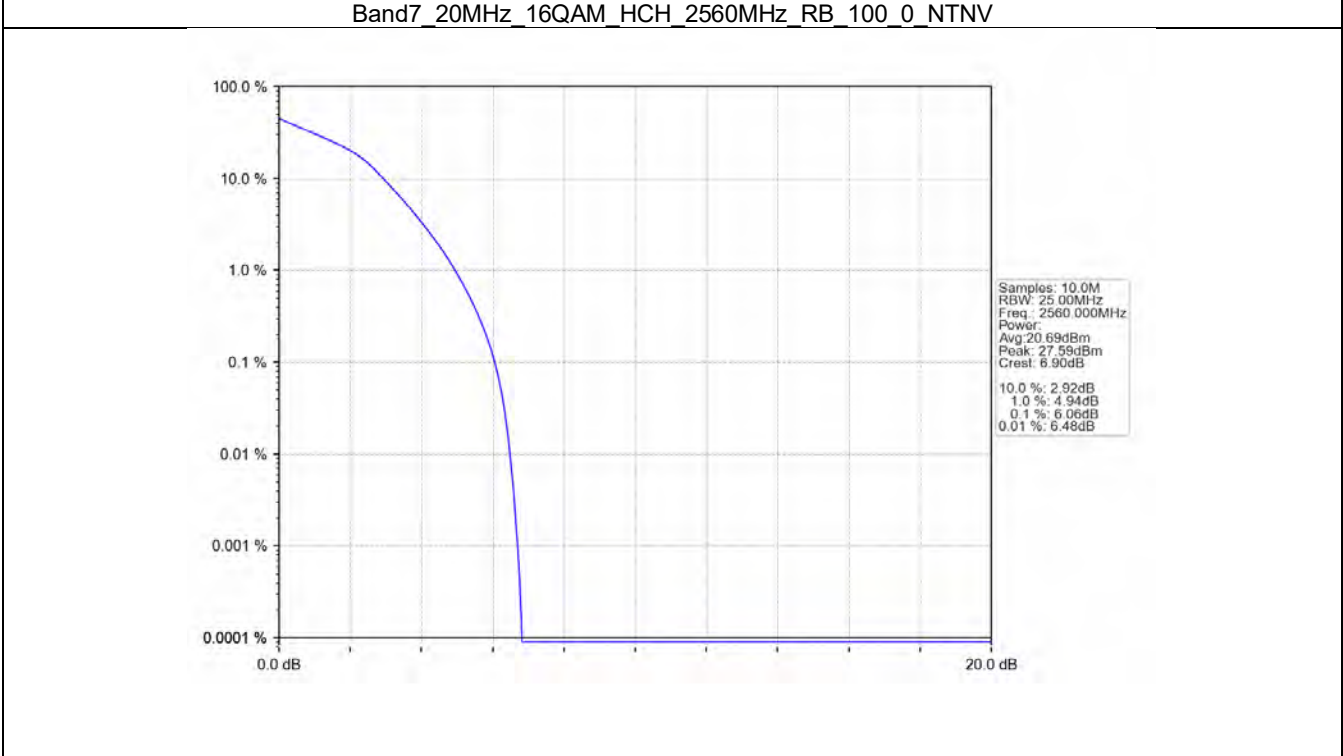
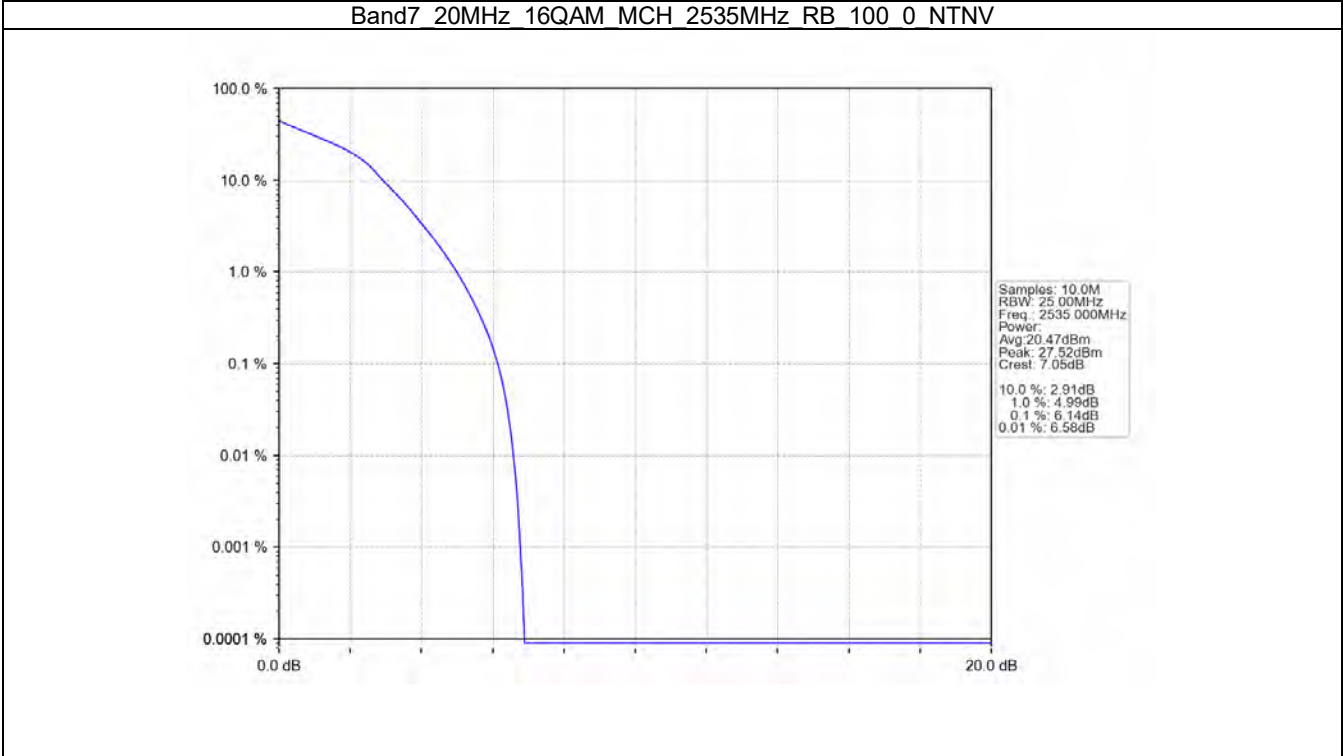


Band7_20MHz_QPSK_HCH_2560MHz_RB_100_0_NTNV

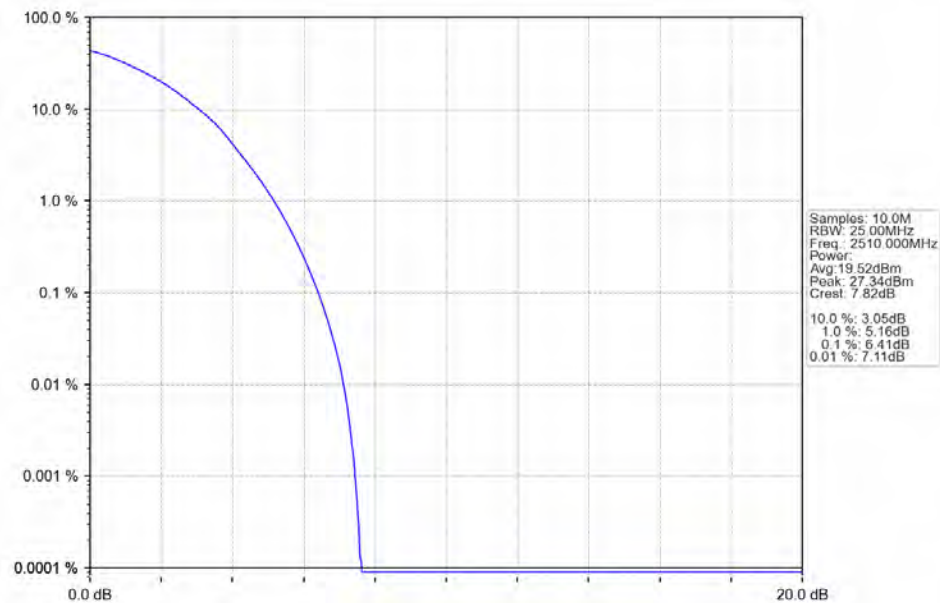


Band7_20MHz_16QAM_LCH_2510MHz_RB_100_0_NTNV

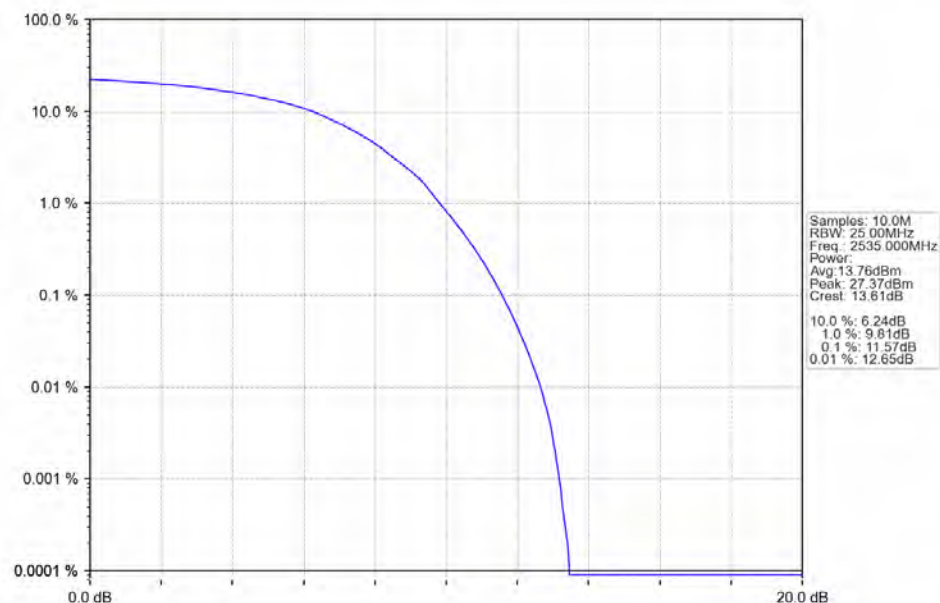




Band7 20MHz 64QAM LCH 2510MHz RB 100 0 NTV



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





5. Spurious Emission

5.1 Test Result

5.1.1 B7_5MHz

Band: 7 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
	2567.5	1	24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

5.1.2 B7_10MHz

Band: 7 / Bandwidth: 10MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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
		1	0	Refer To Test Graph	Pass
	2565	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

5.1.3 B7_15MHz

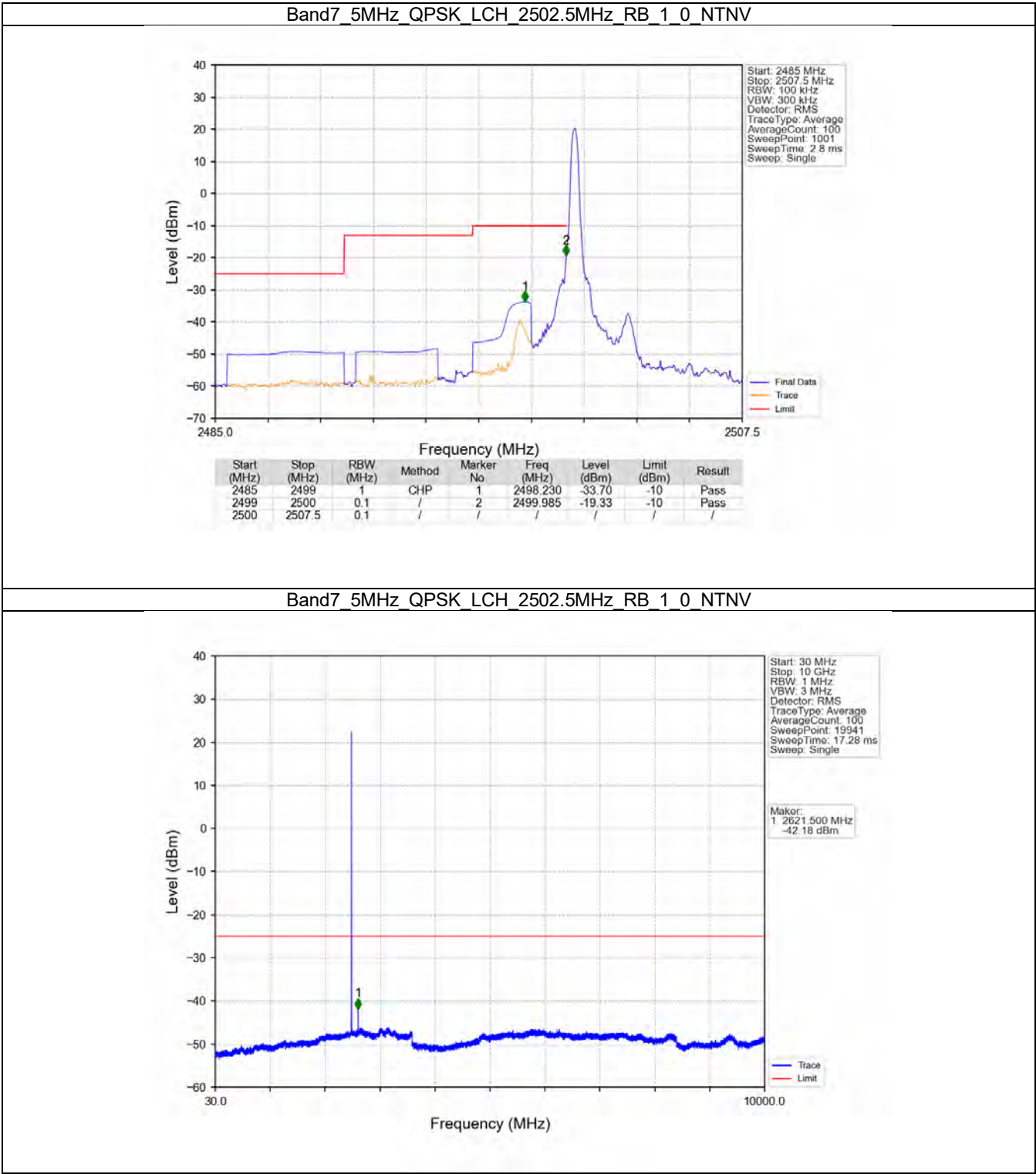
Band: 7 / Bandwidth: 15MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2507.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	2562.5	1	74	Refer To Test Graph	Pass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

5.1.4 B7_20MHz

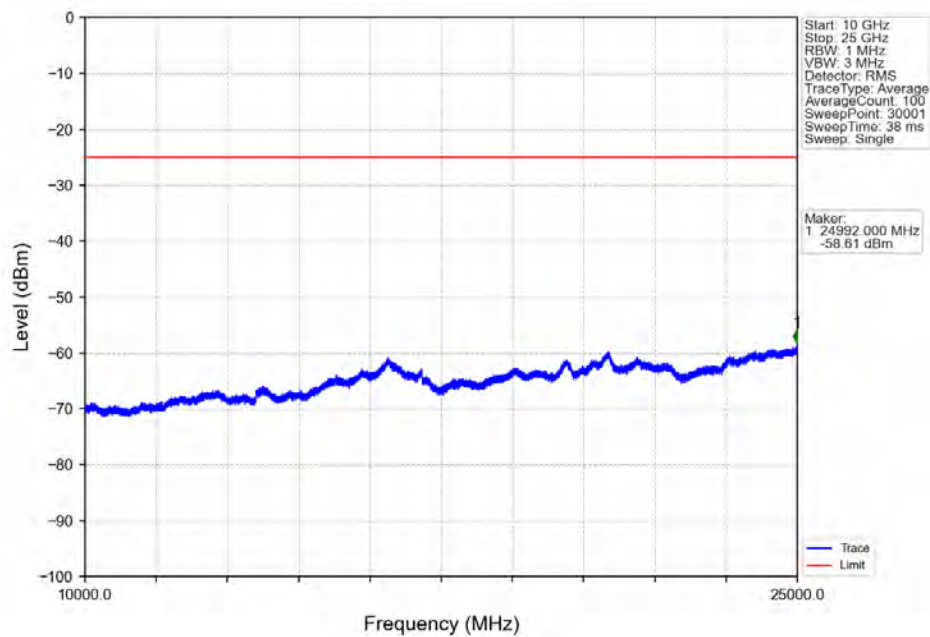
Band: 7 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	2510	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	2535	1	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	2560	1	99	Refer To Test Graph	Pass
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

5.2 Test Graph

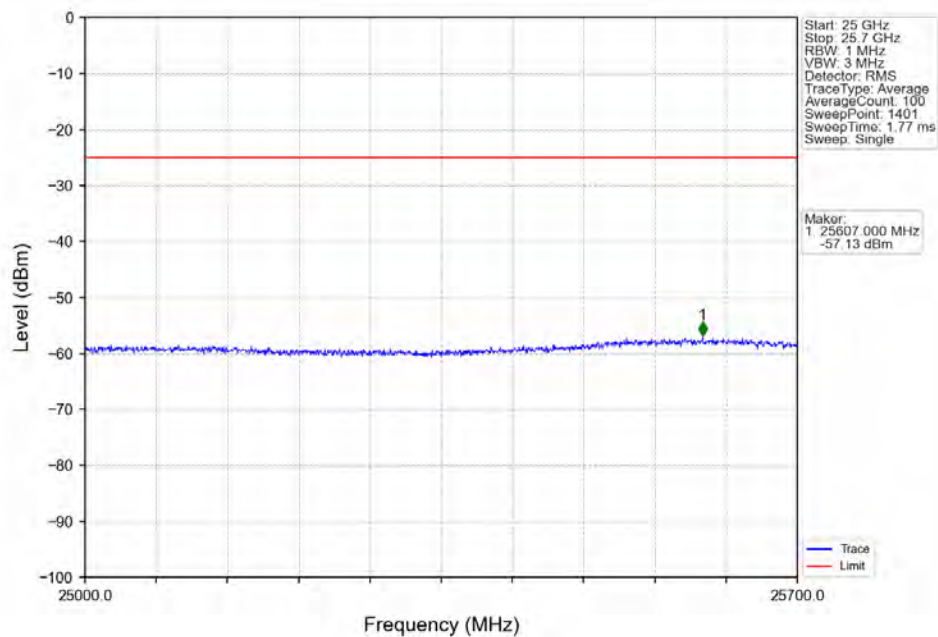
5.2.1 B7_5MHz



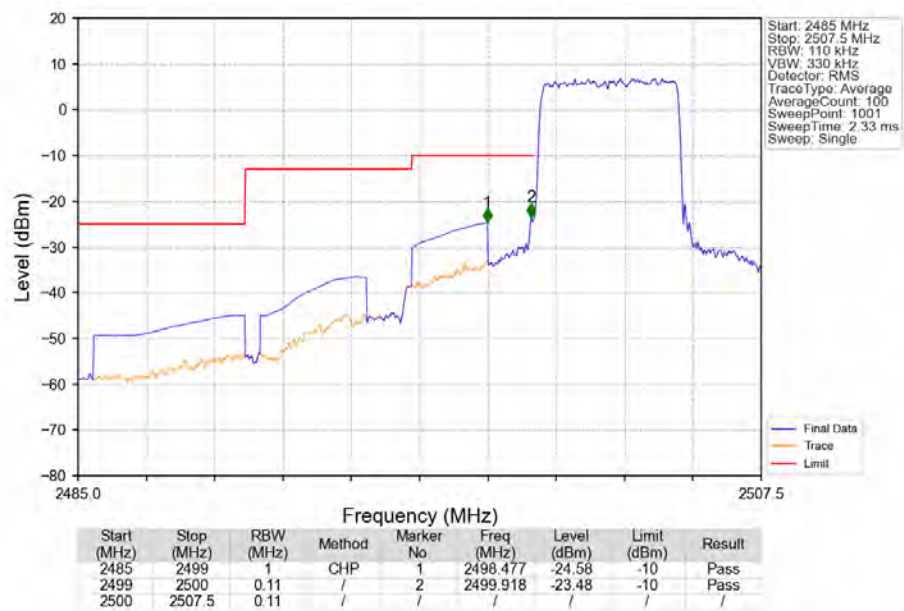
Band7 5MHz QPSK LCH 2502.5MHz RB 1 0 NTN



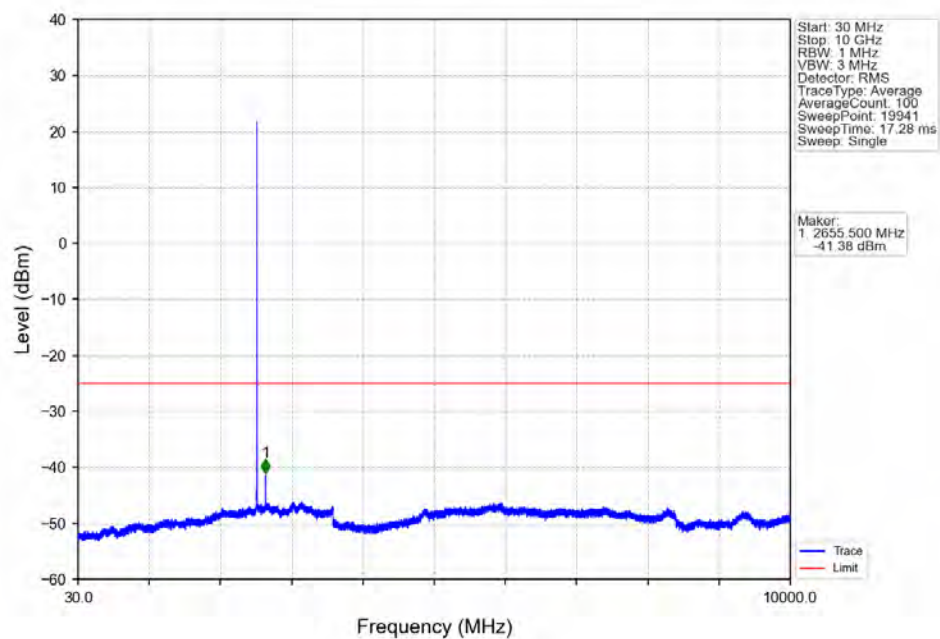
Band7 5MHz QPSK LCH 2502.5MHz RB 1 0 NTN



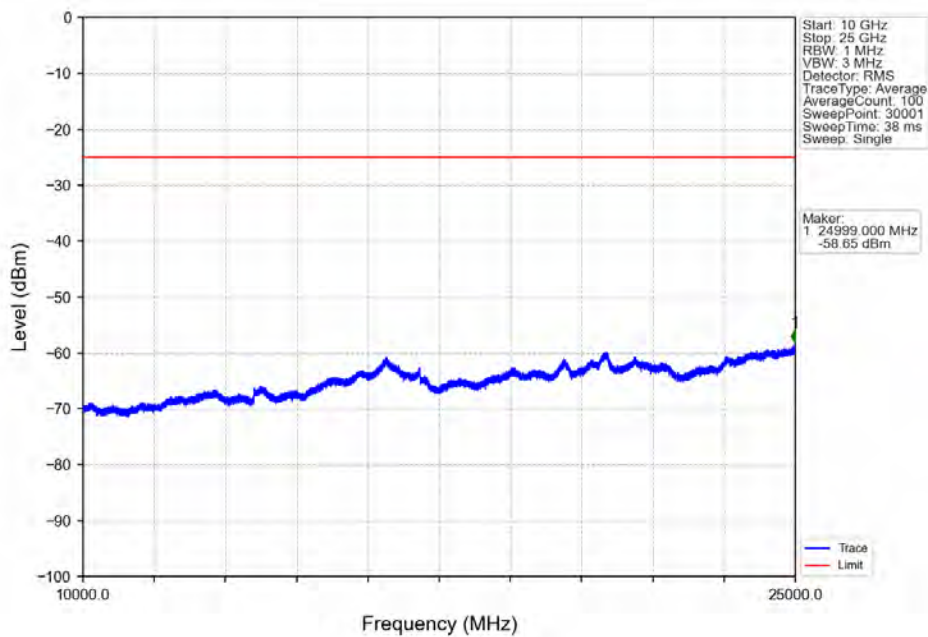
Band7 5MHz QPSK LCH 2502.5MHz RB 25 0 NTNV



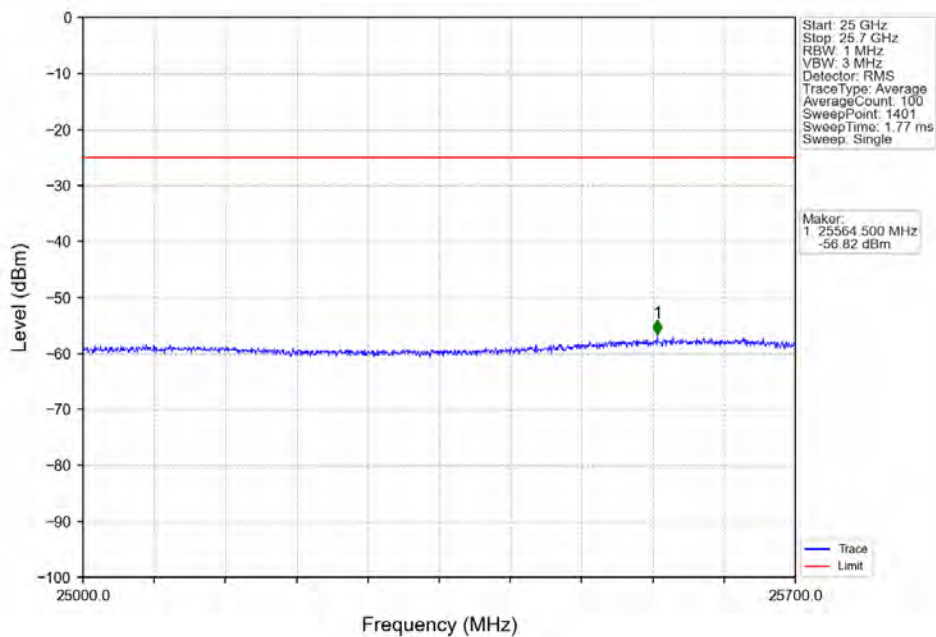
Band7 5MHz QPSK MCH 2535MHz RB 1 0 NTNV



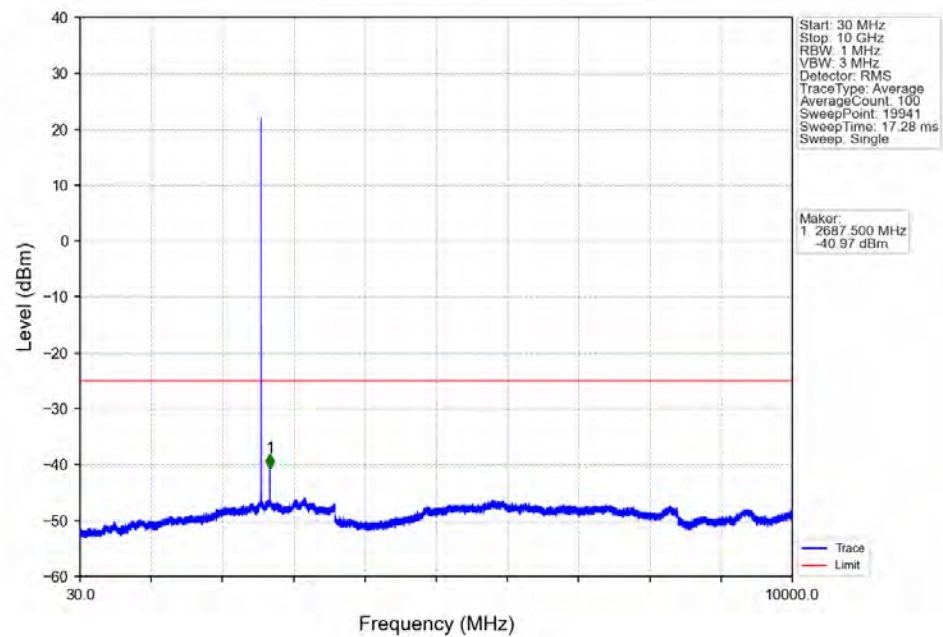
Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



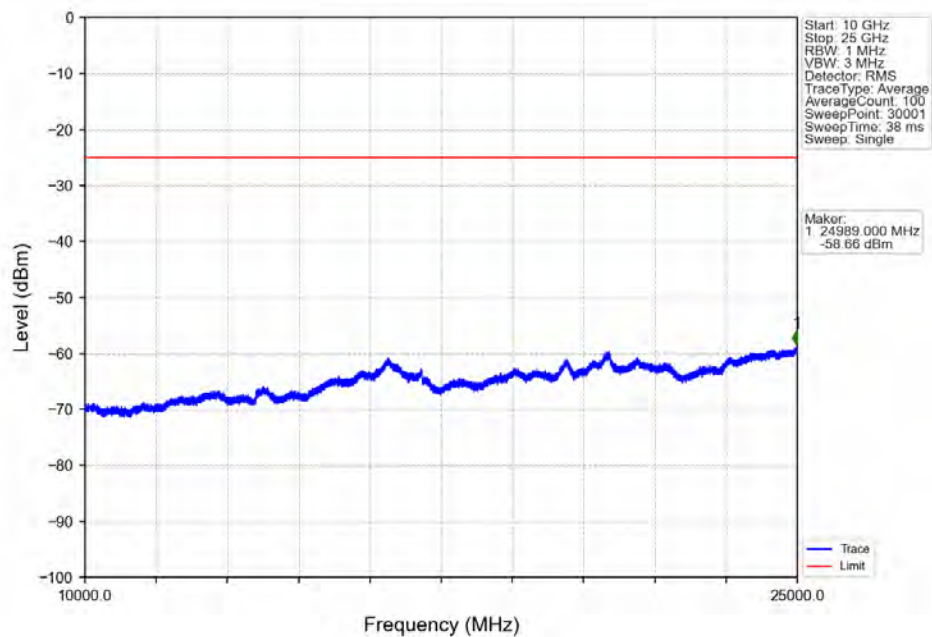
Band7_5MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



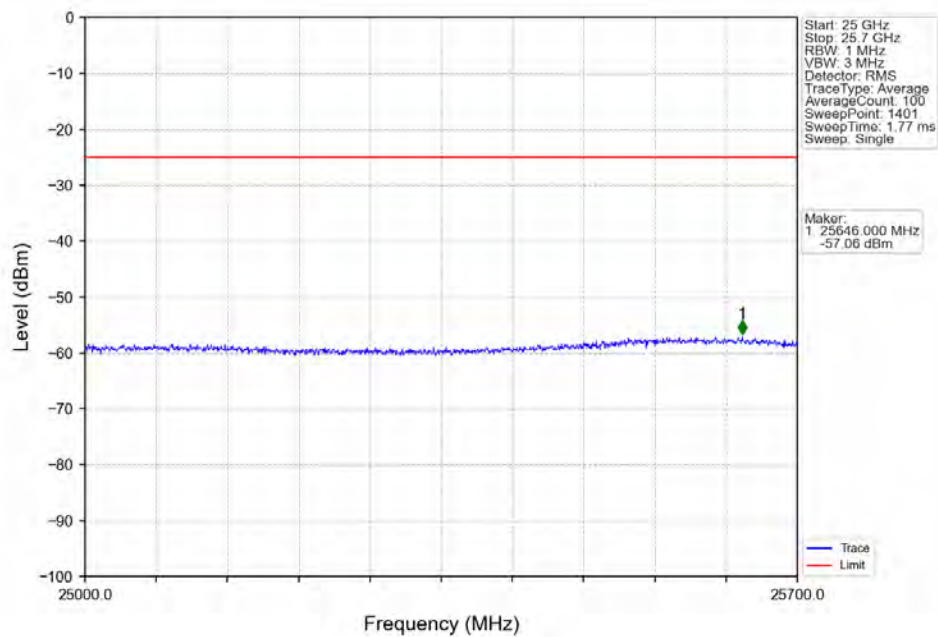
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTNV



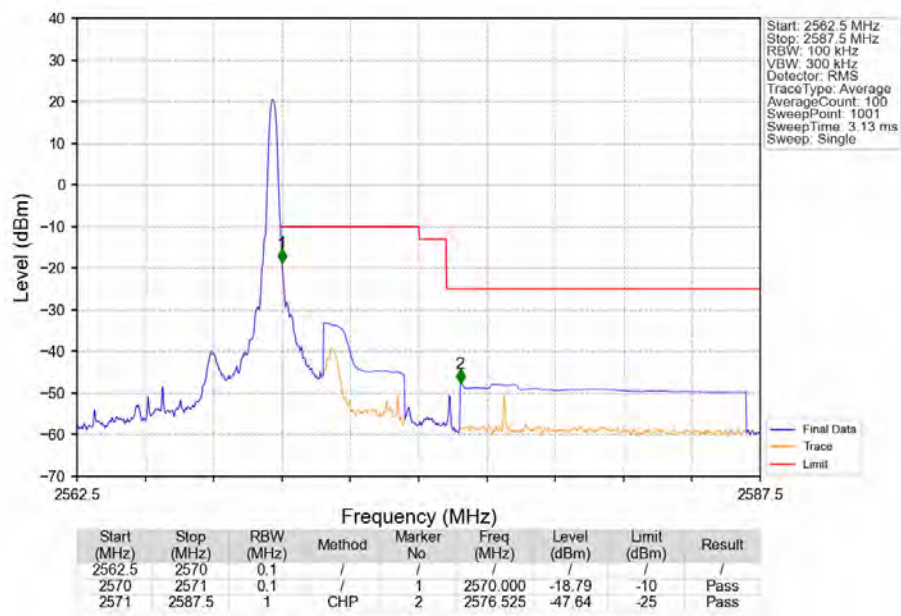
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTNV



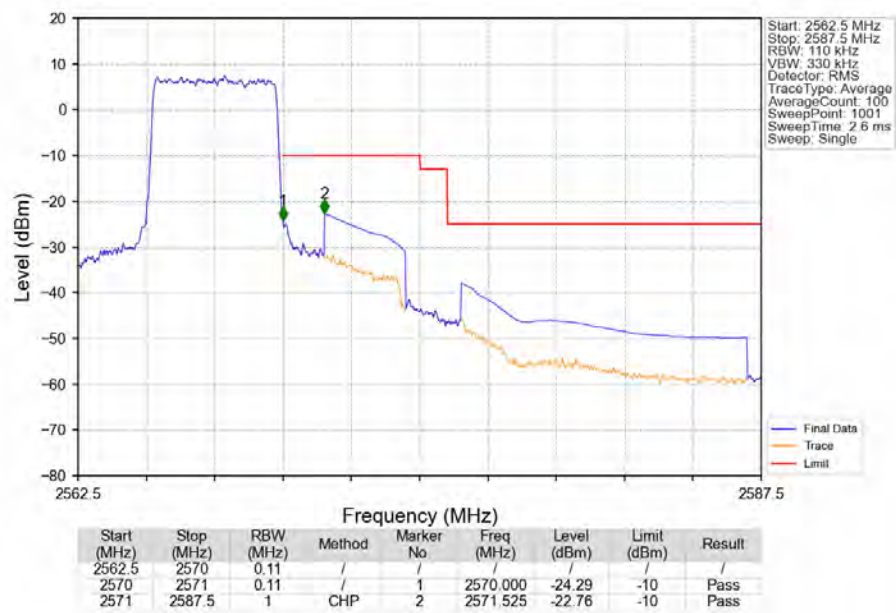
Band7 5MHz QPSK HCH 2567.5MHz RB 1 0 NTN



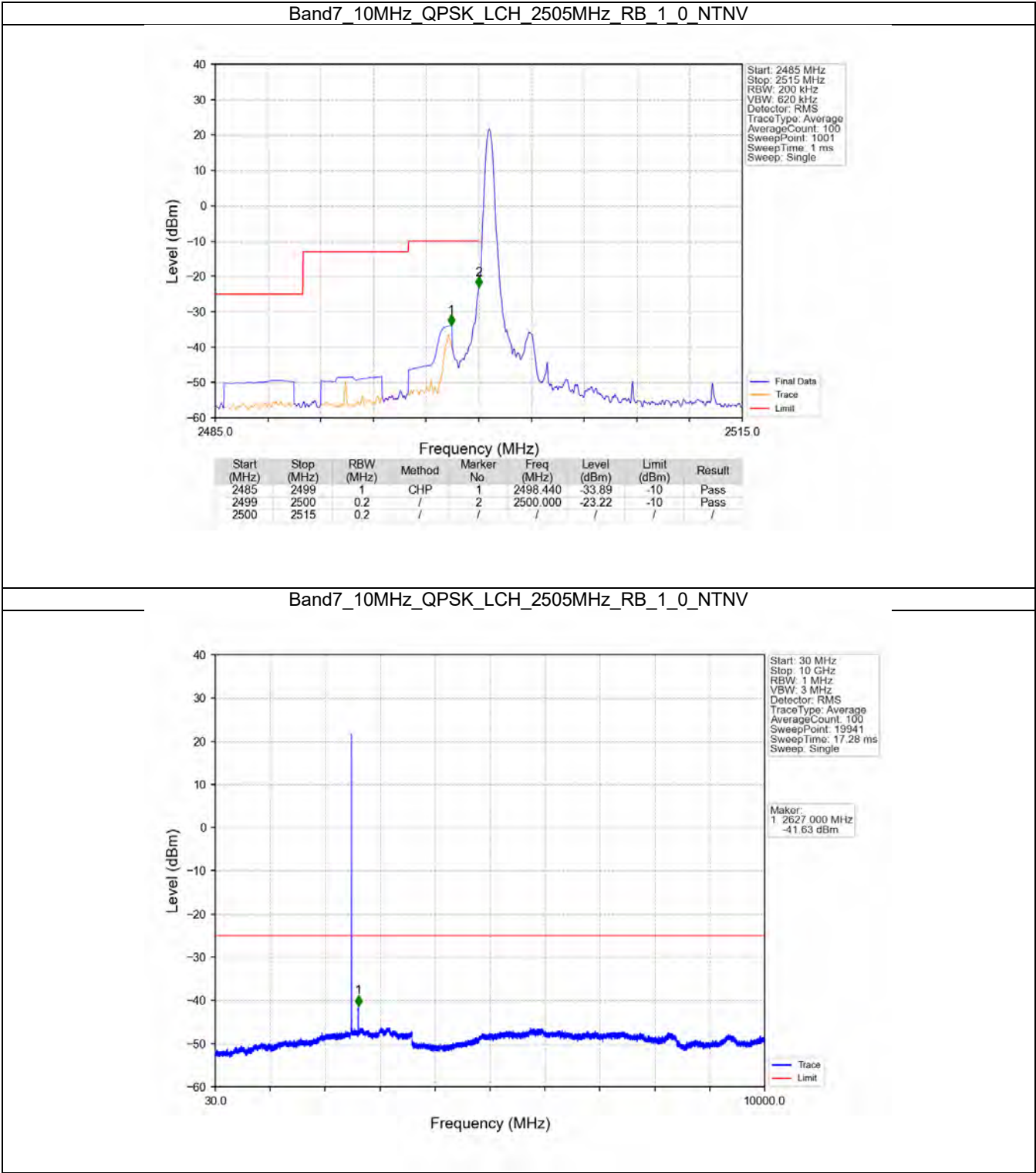
Band7 5MHz QPSK HCH 2567.5MHz RB 1 24 NTN



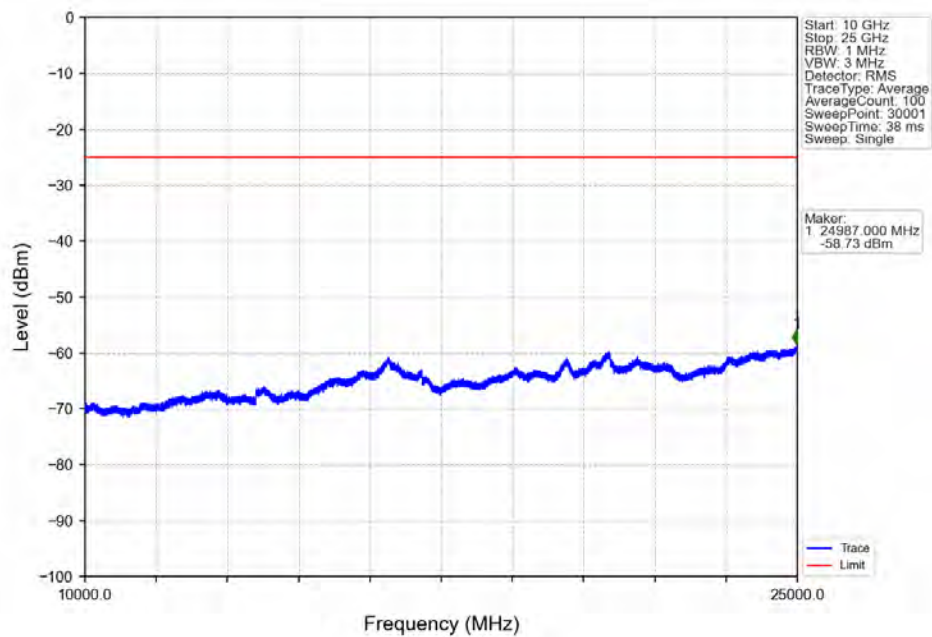
Band7 5MHz QPSK HCH 2567.5MHz RB 25 0 NTV



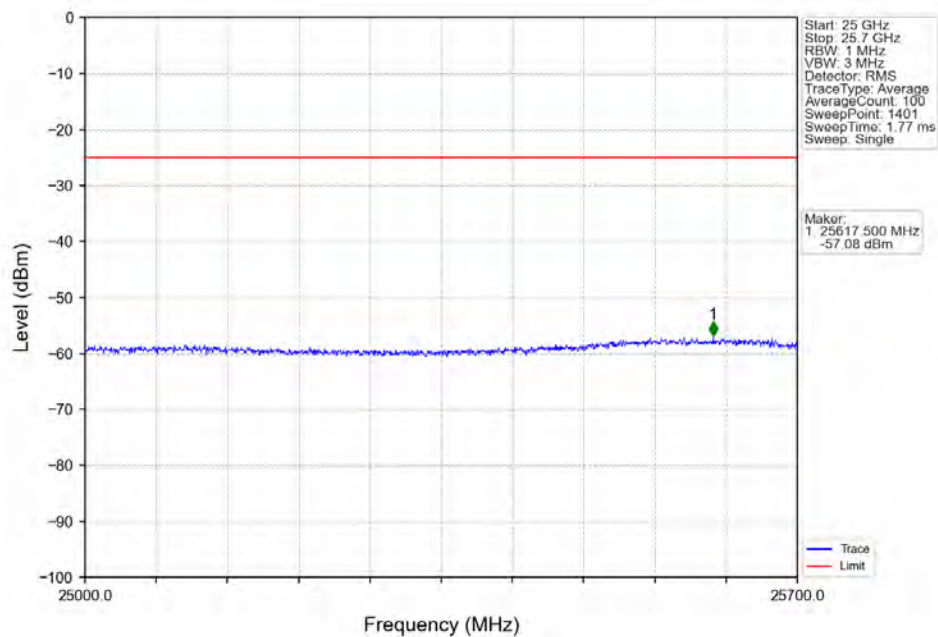
5.2.2 B7_10MHz



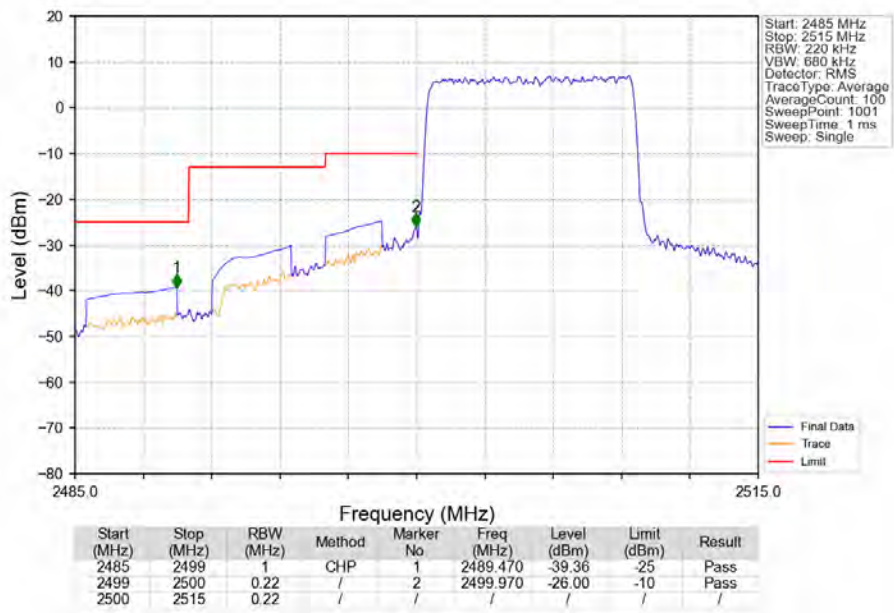
Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV



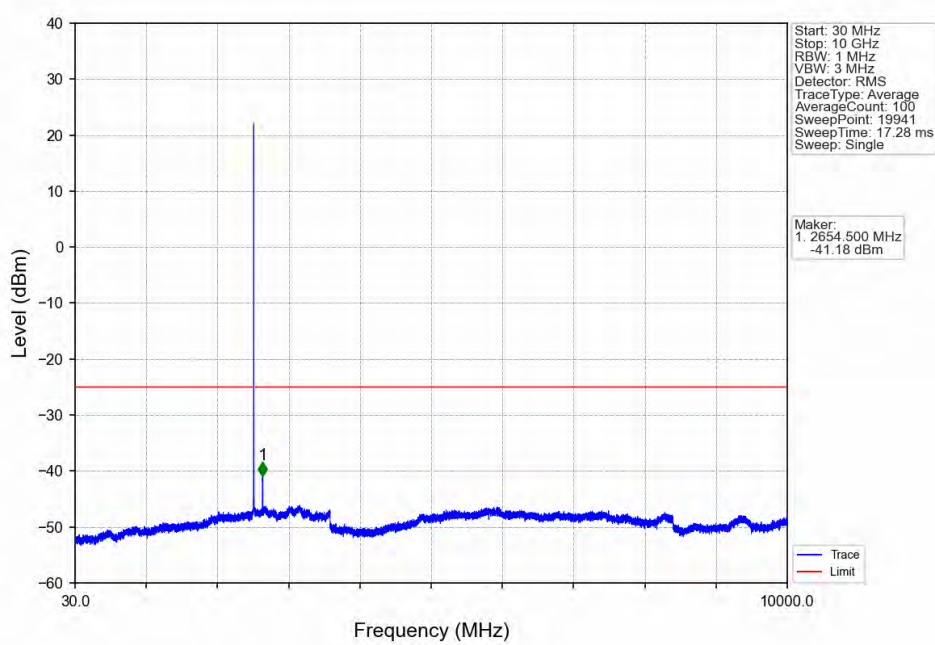
Band7_10MHz_QPSK_LCH_2505MHz_RB_1_0_NTNV



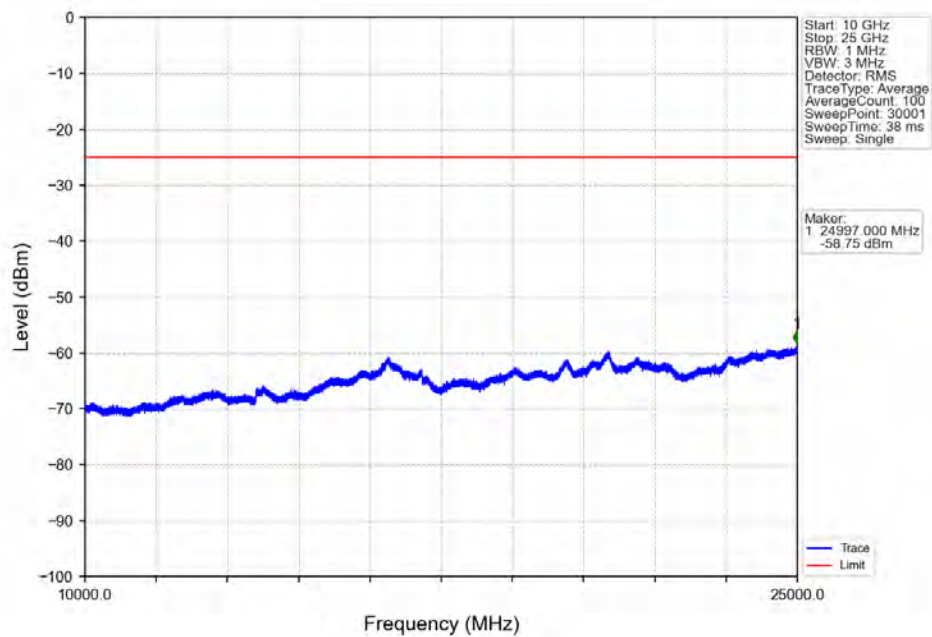
Band7 10MHz QPSK LCH 2505MHz RB 50 0 NTN



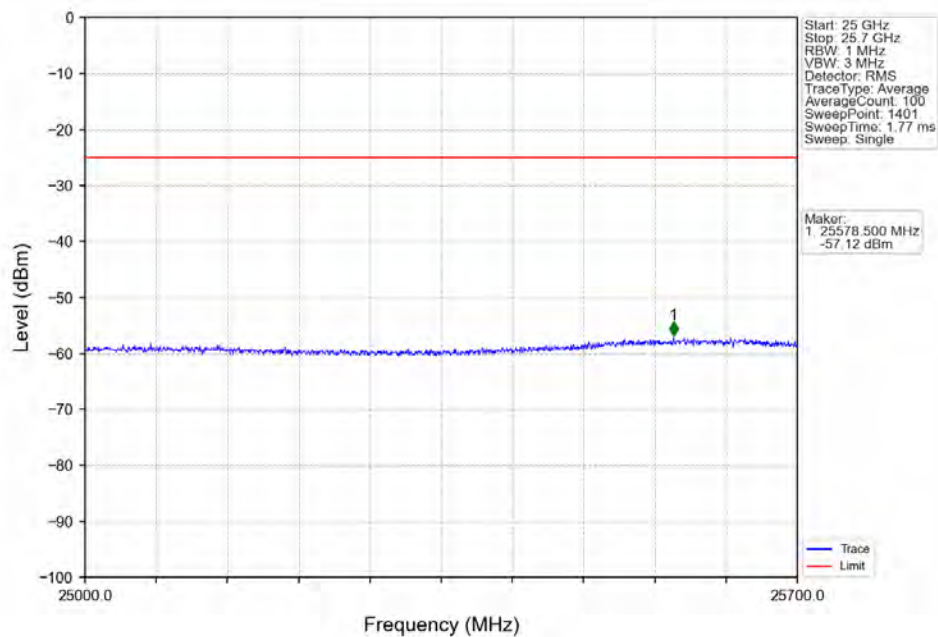
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



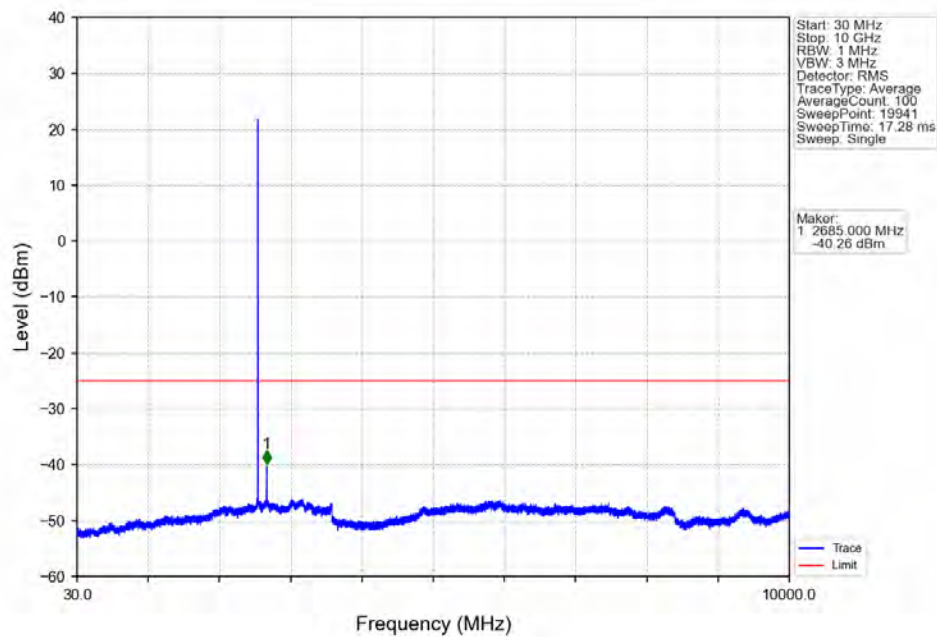
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



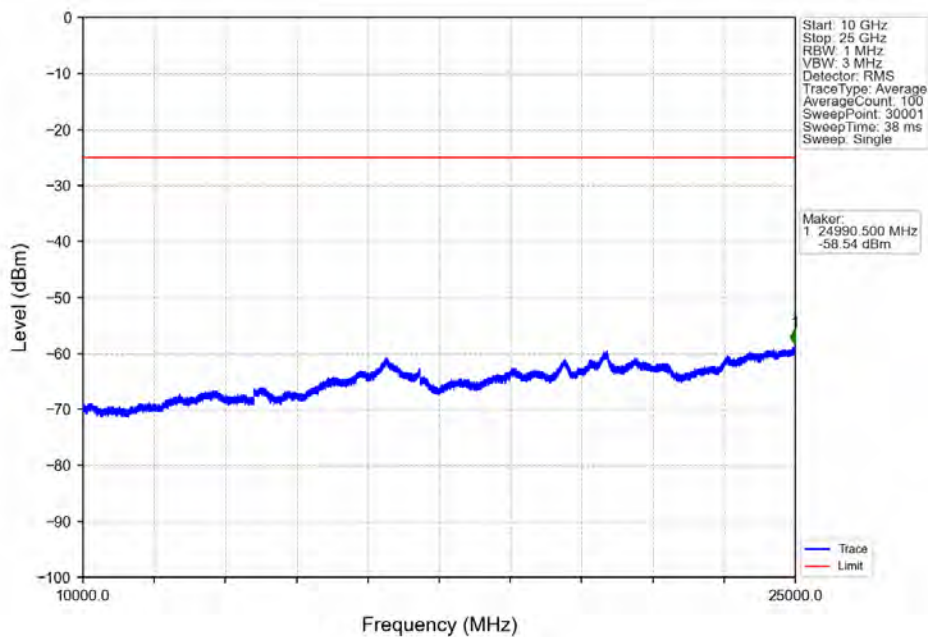
Band7 10MHz QPSK MCH 2535MHz RB 1 0 NTN



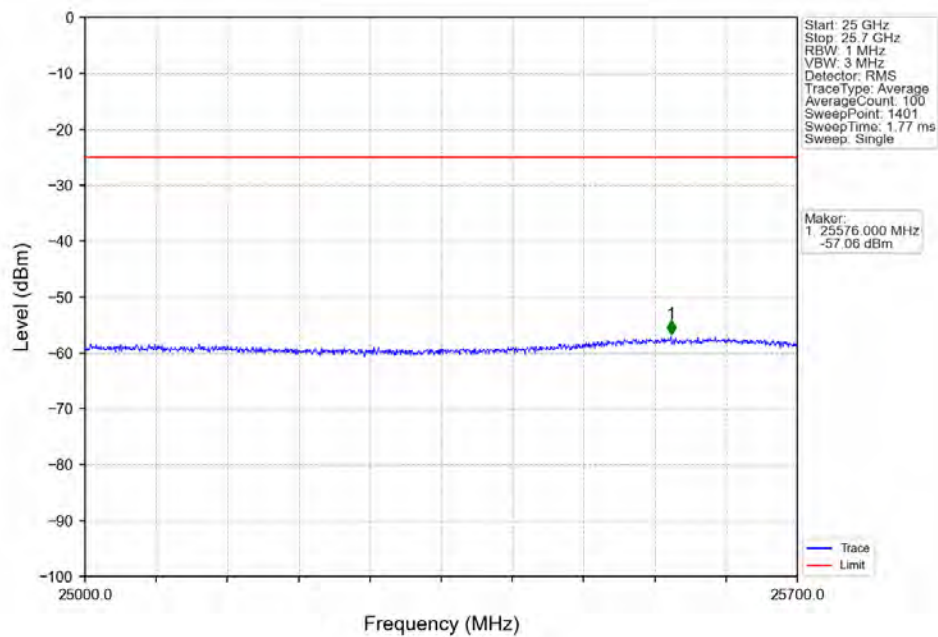
Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTNV



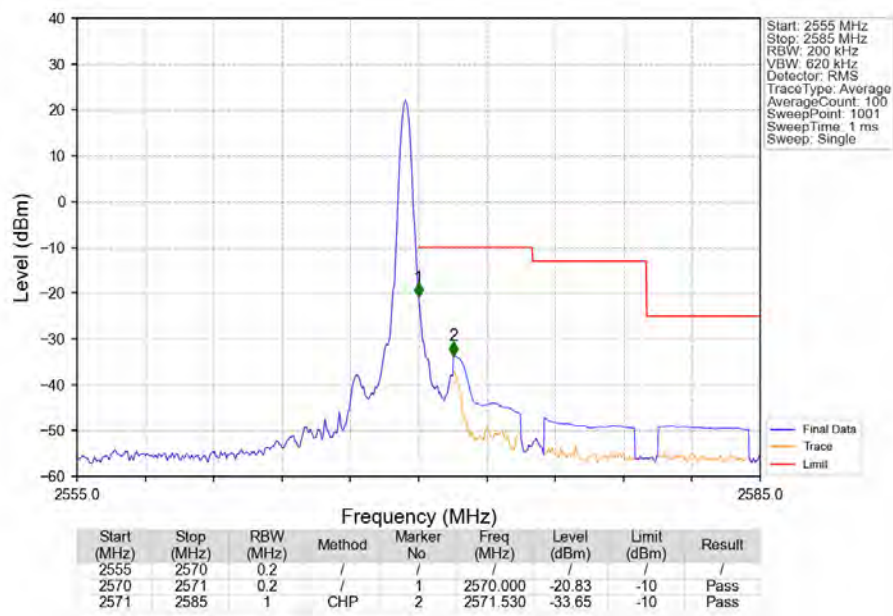
Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTNV



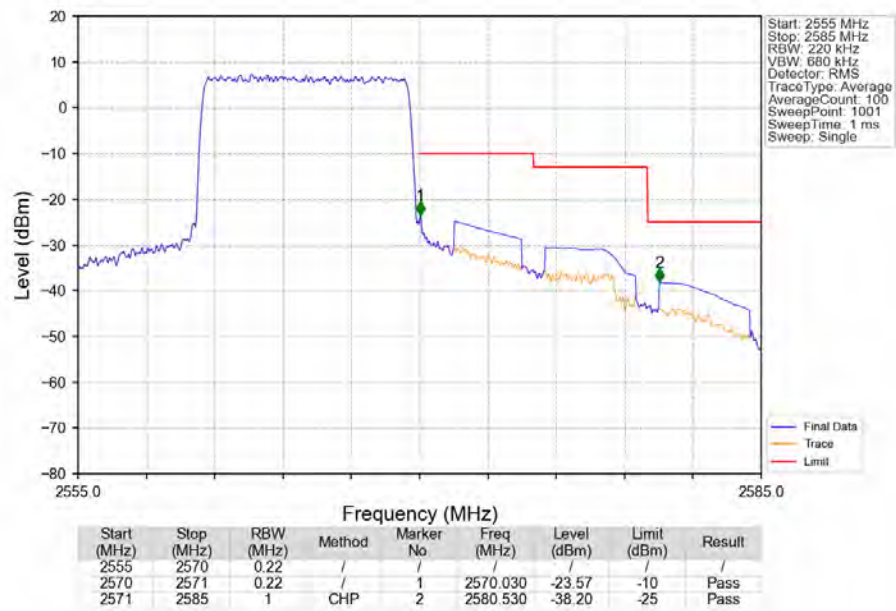
Band7 10MHz QPSK HCH 2565MHz RB 1 0 NTN



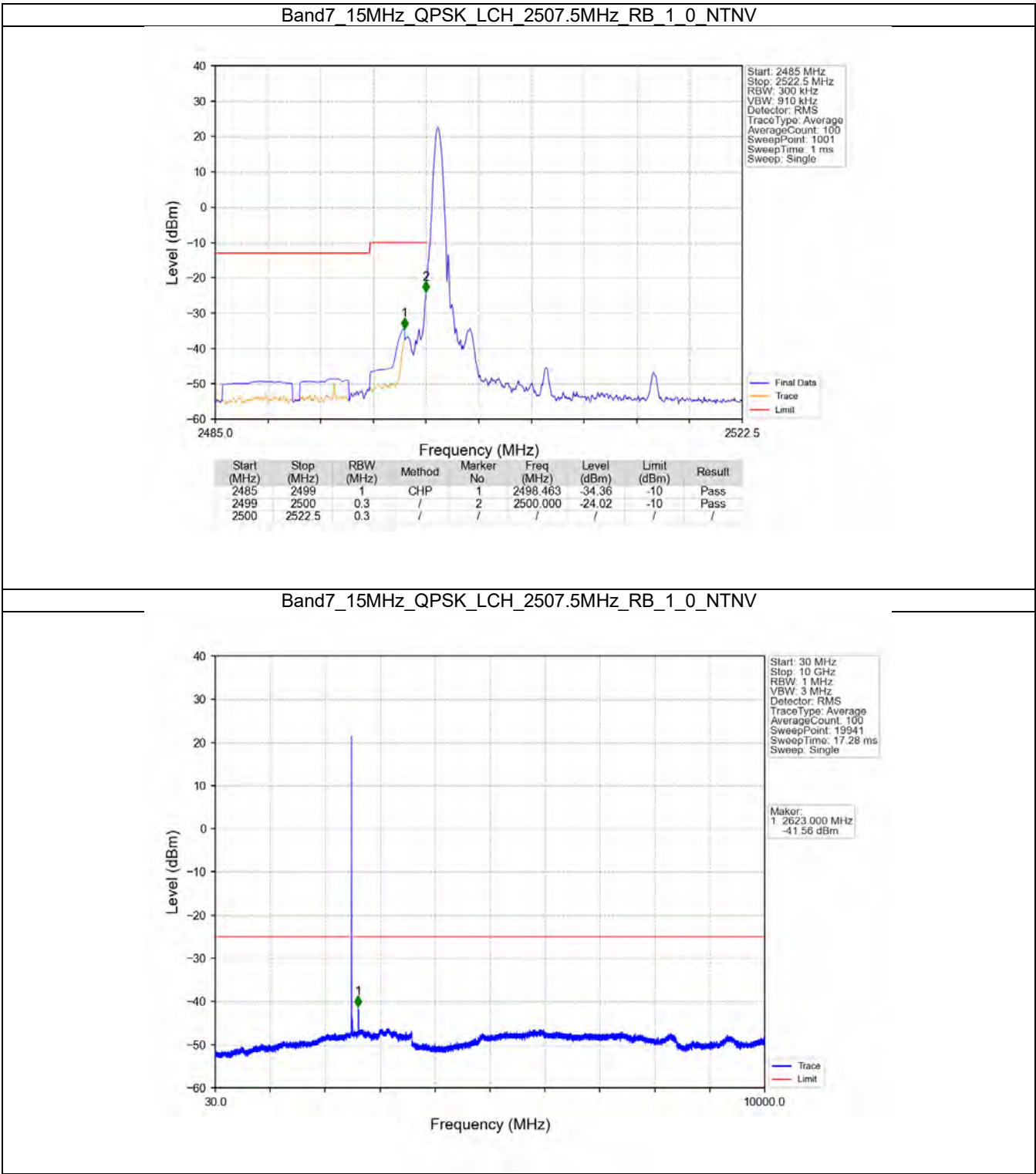
Band7 10MHz QPSK HCH 2565MHz RB 1 49 NTN



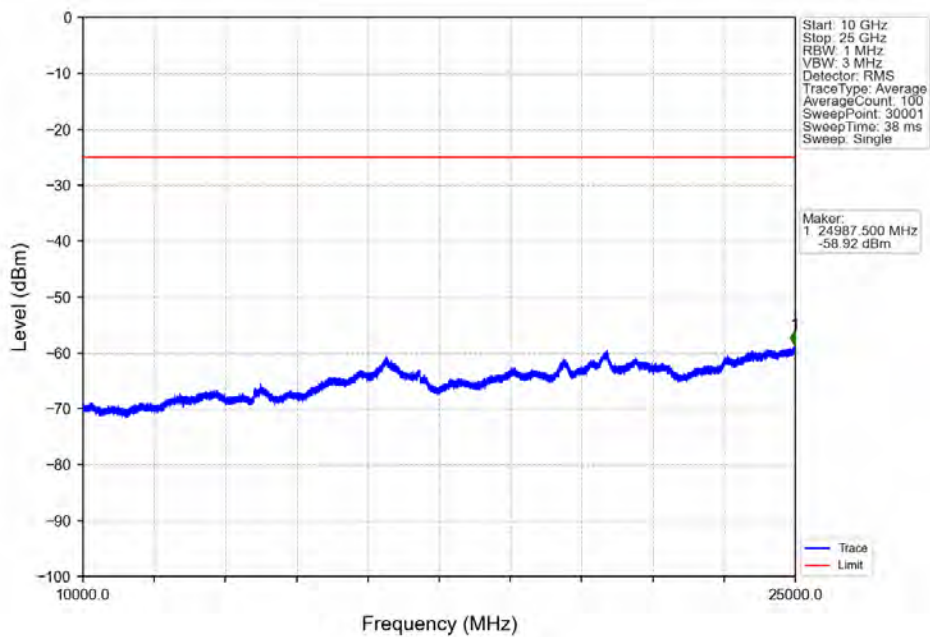
Band7 10MHz QPSK HCH 2565MHz RB 50 0 NTNV



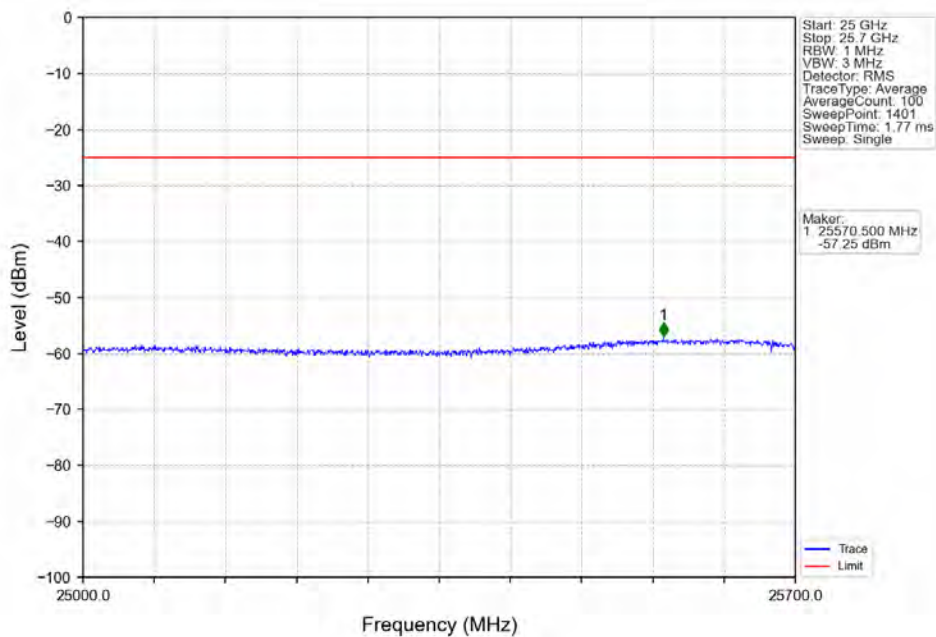
5.2.3 B7_15MHz



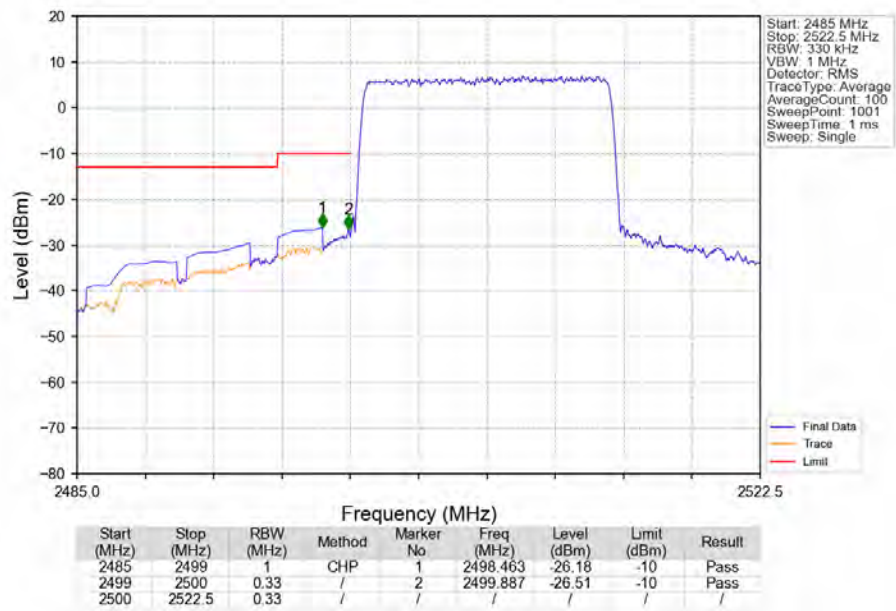
Band7 15MHz QPSK LCH 2507.5MHz RB 1 0 NTV



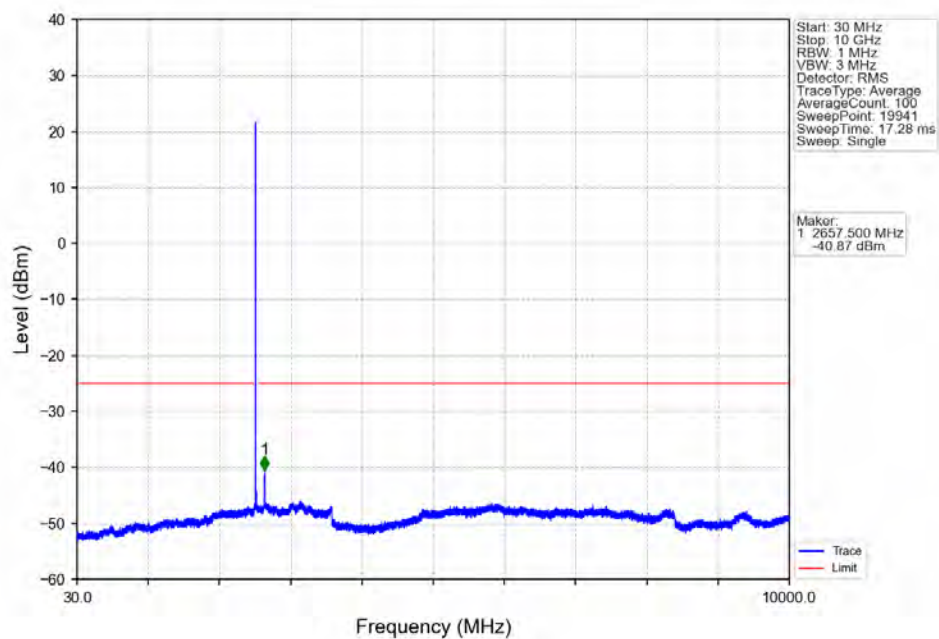
Band7 15MHz QPSK LCH 2507.5MHz RB 1 0 NTV



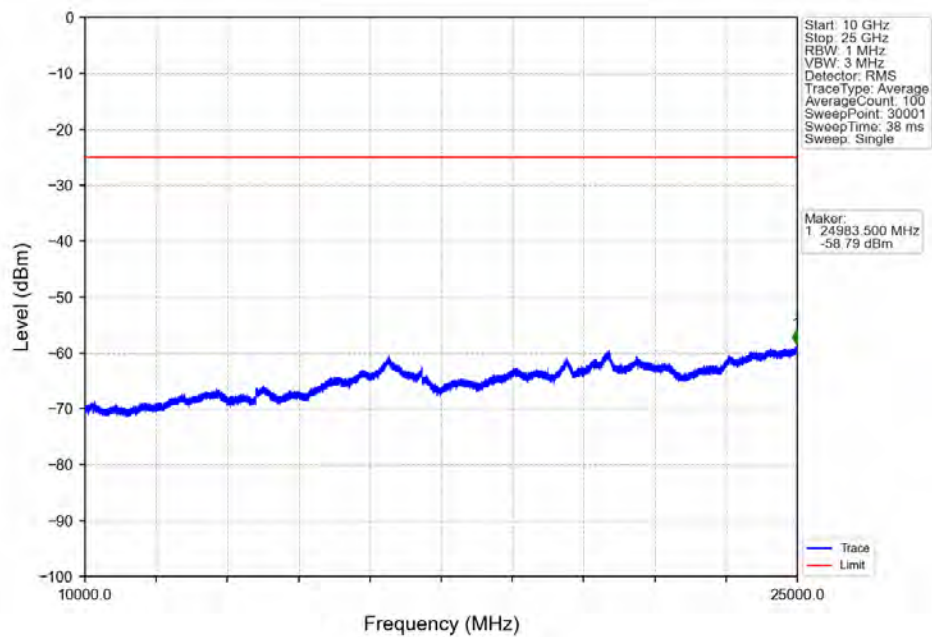
Band7 15MHz QPSK LCH 2507.5MHz RB 75 0 NTNV



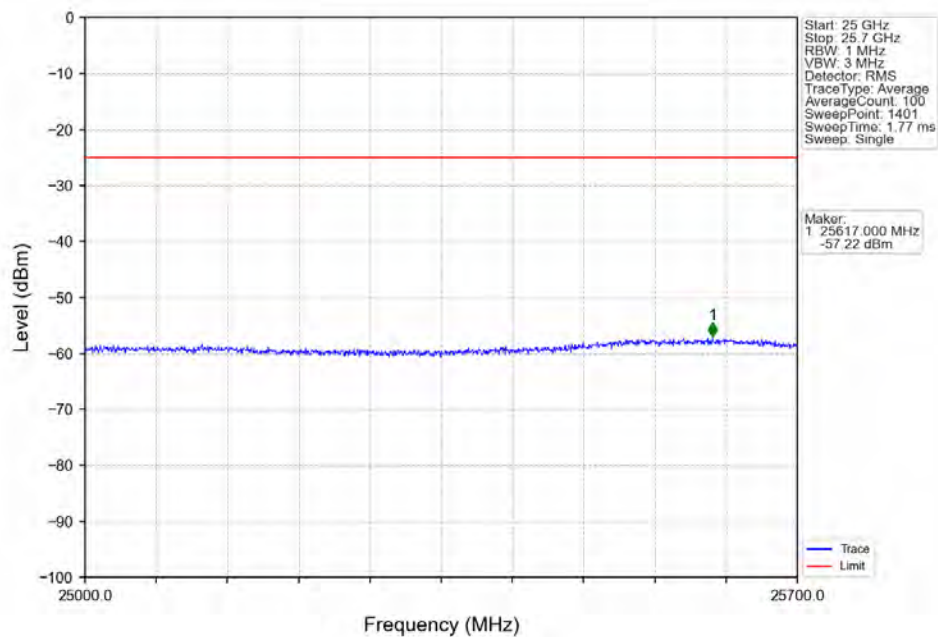
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTNV



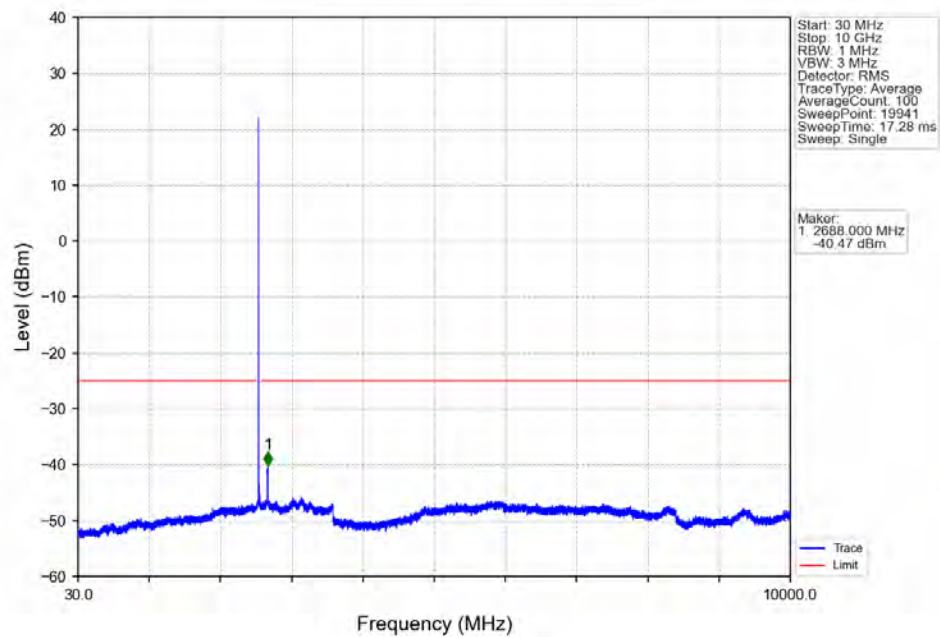
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTN



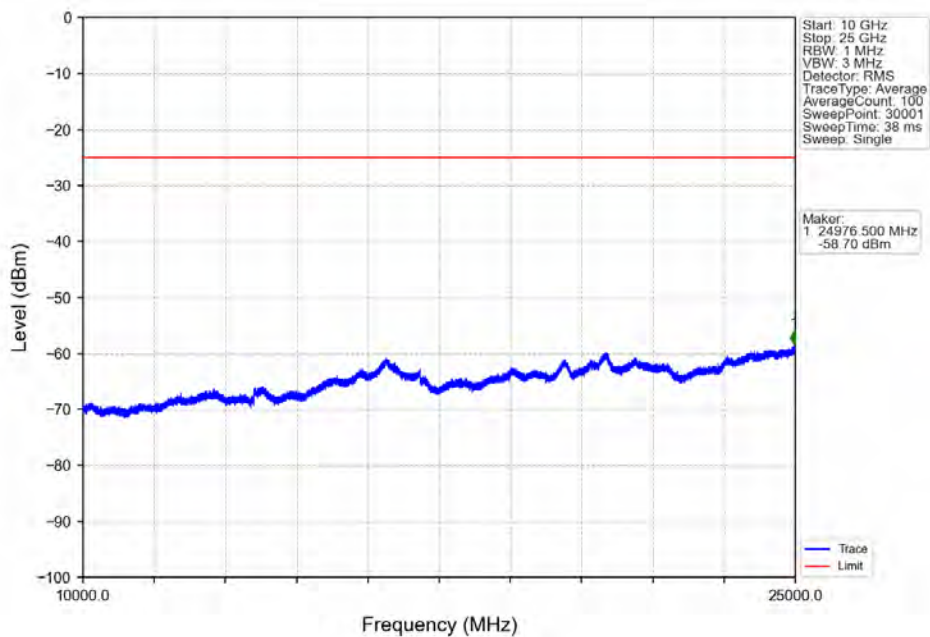
Band7 15MHz QPSK MCH 2535MHz RB 1 0 NTN



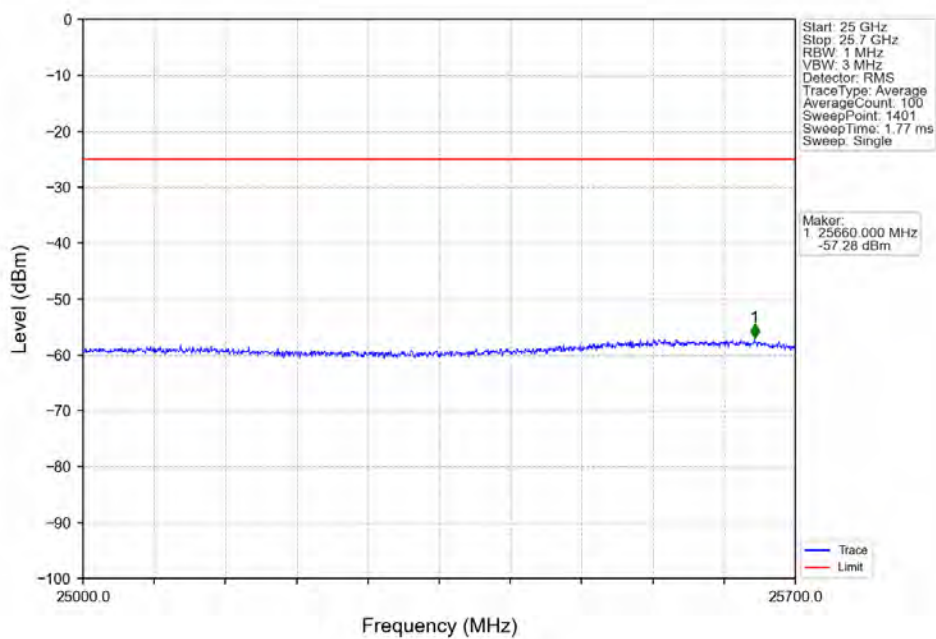
Band7 15MHz QPSK HCH 2562.5MHz RB 1 0 NTV



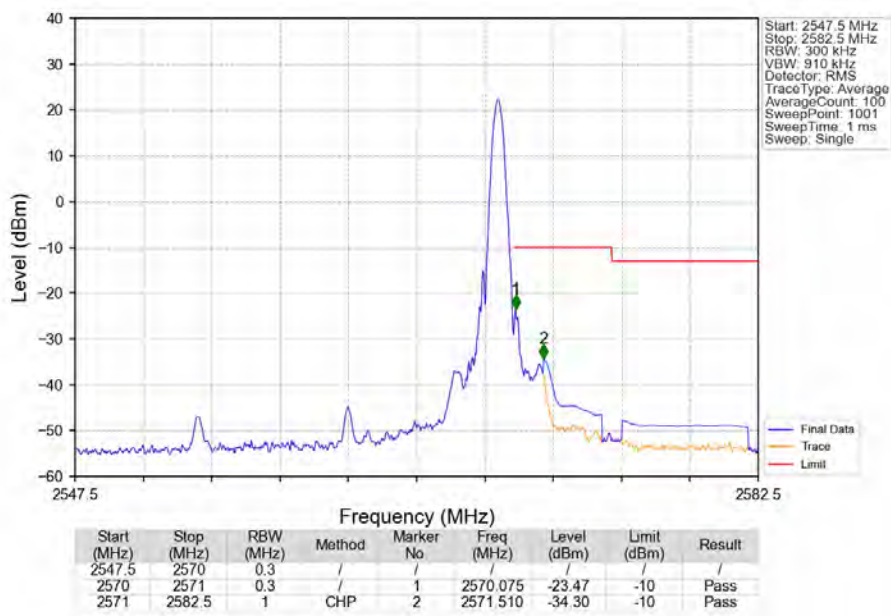
Band7 15MHz QPSK HCH 2562.5MHz RB 1 0 NTV



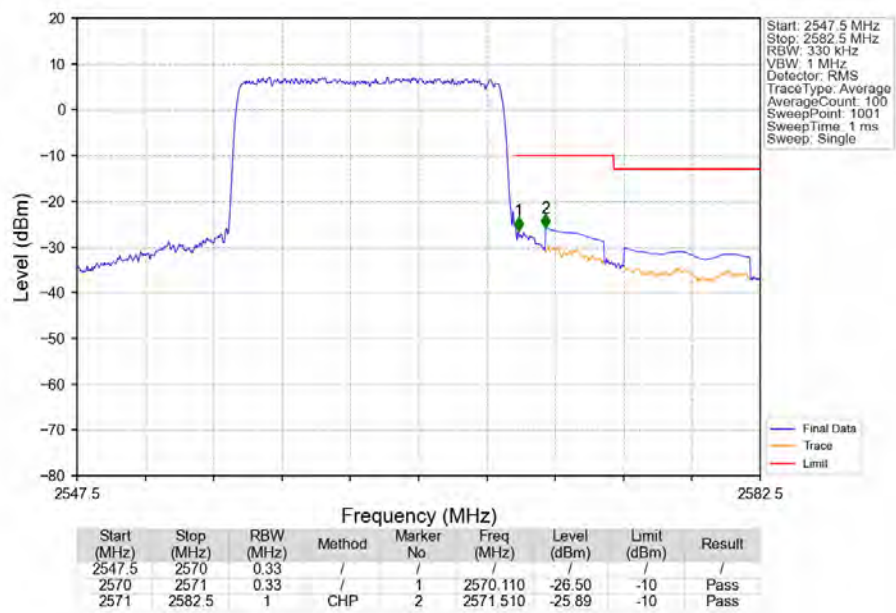
Band7 15MHz QPSK HCH 2562.5MHz RB 1 0 NTNV



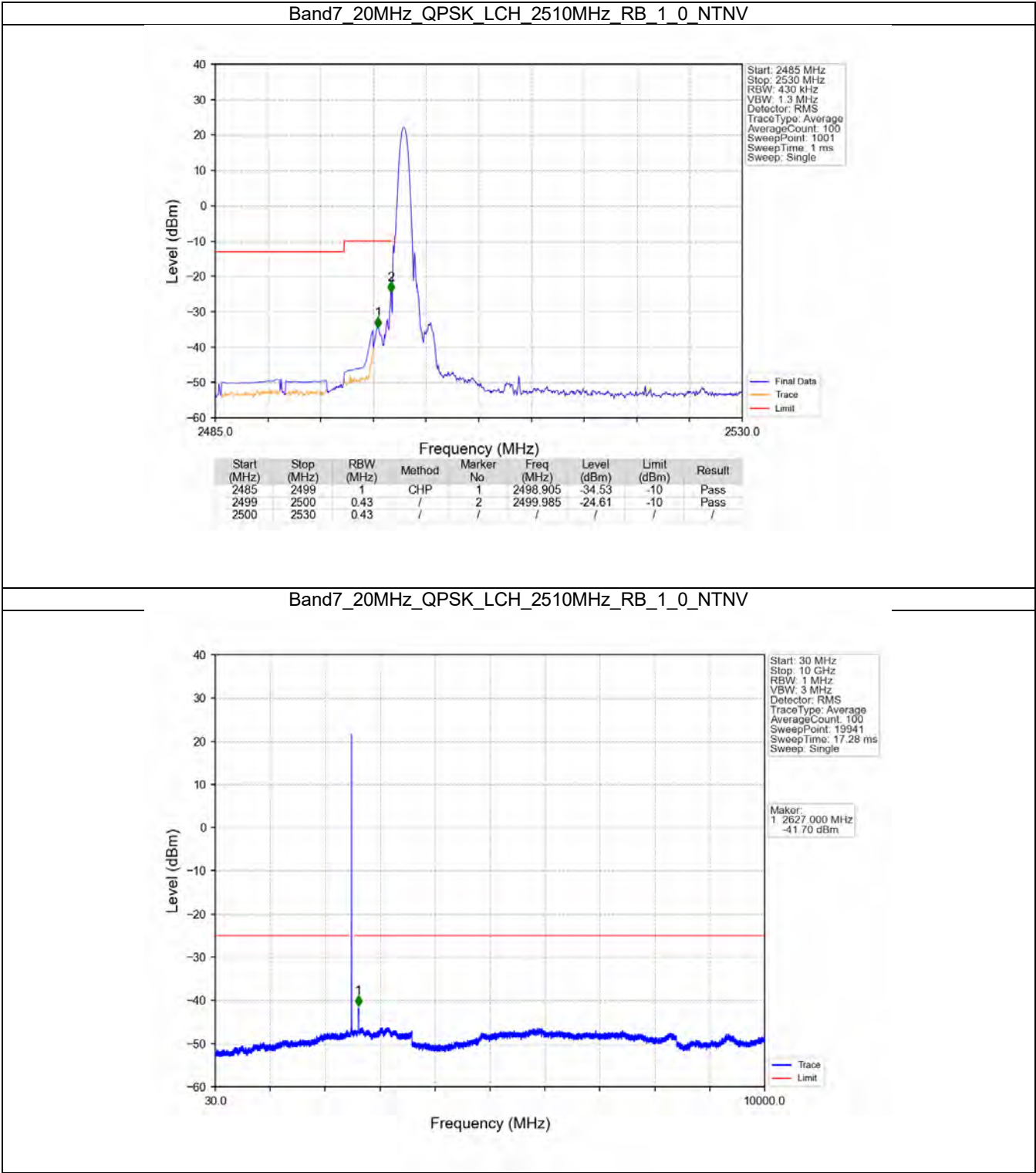
Band7 15MHz QPSK HCH 2562.5MHz RB 1 74 NTNV



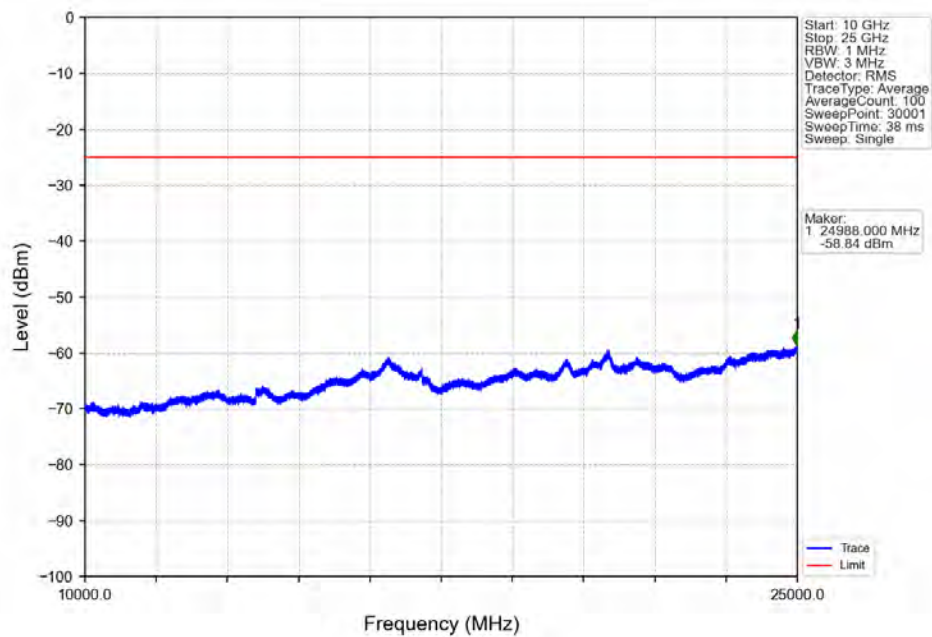
Band7 15MHz QPSK HCH 2562.5MHz RB 75 0 NTV



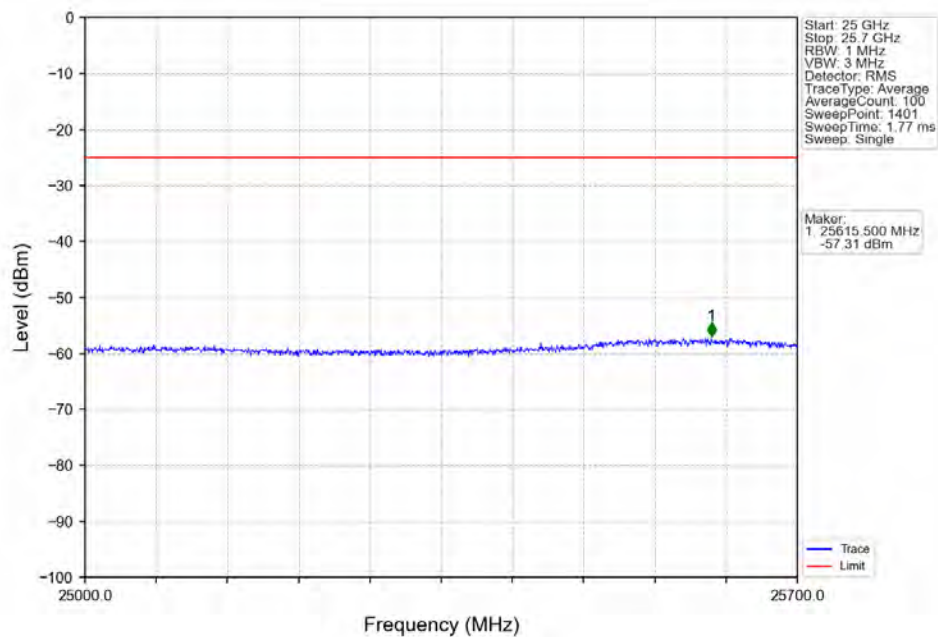
5.2.4 B7_20MHz



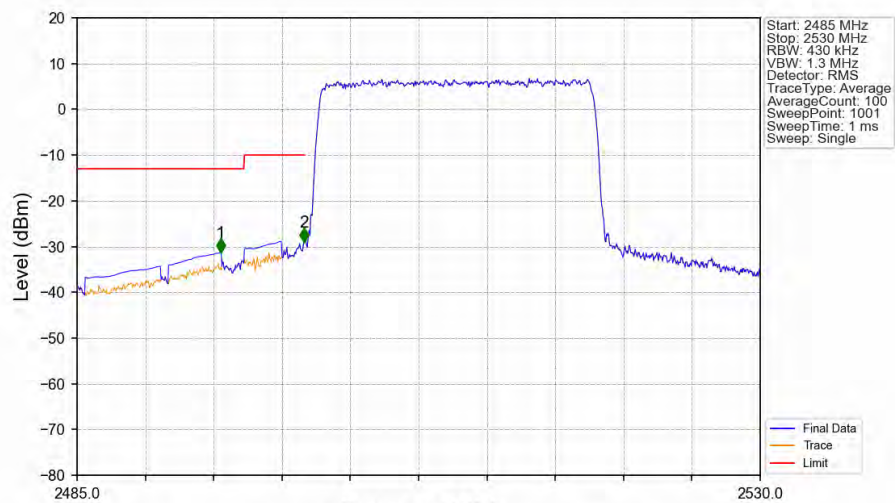
Band7_20MHz_QPSK_LCH_2510MHz_RB_1_0_NTNV



Band7_20MHz_QPSK_LCH_2510MHz_RB_1_0_NTNV

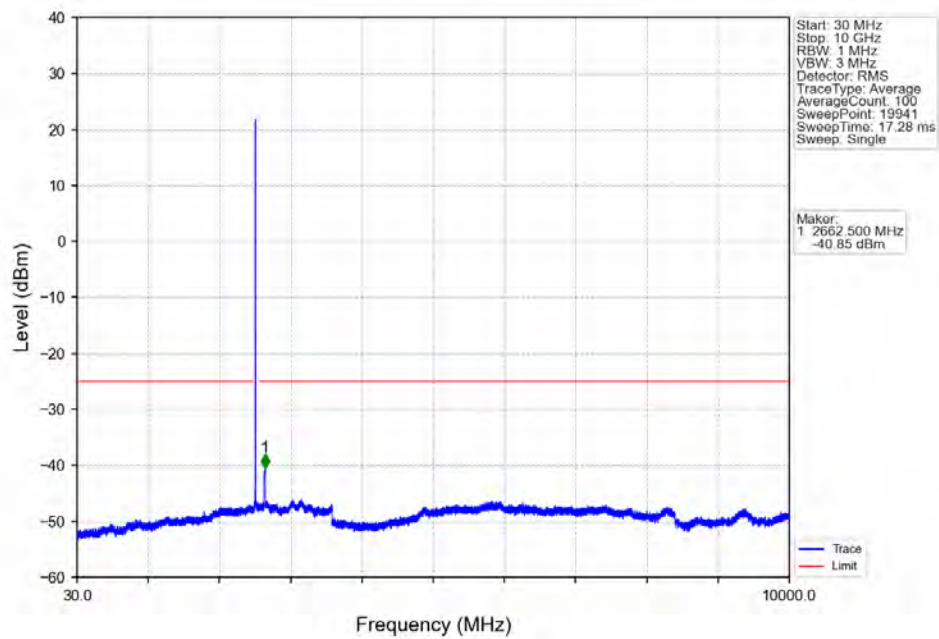


Band7 20MHz QPSK LCH 2510MHz RB 100 0 NTNV

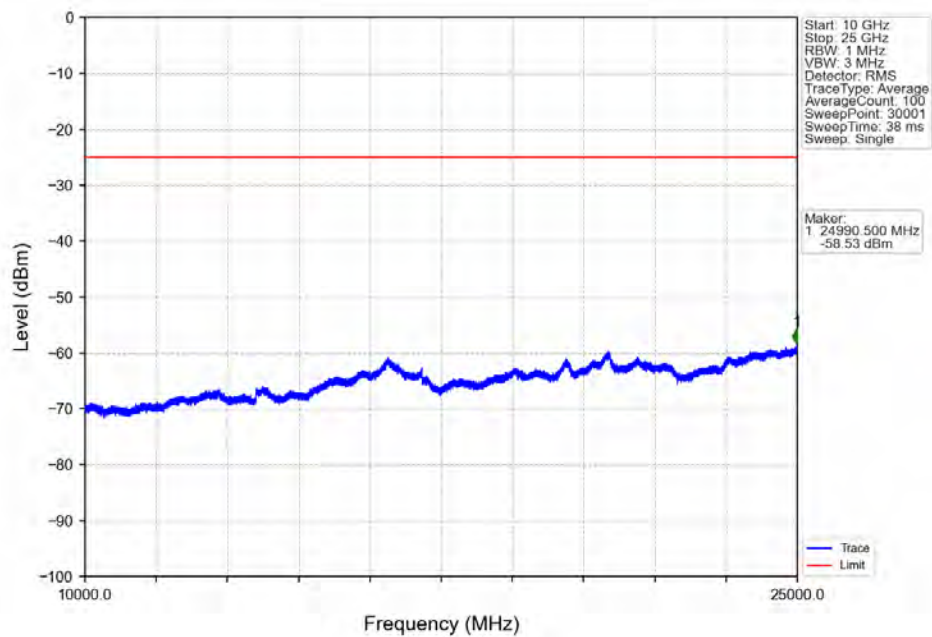


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2485	2499	0.43	CHP	1	2494.450	-31.36	-13	Pass
2499	2500	0.43	/	2	2499.940	-29.07	-10	Pass
2500	2530	0.43	/	/	/	/	/	/

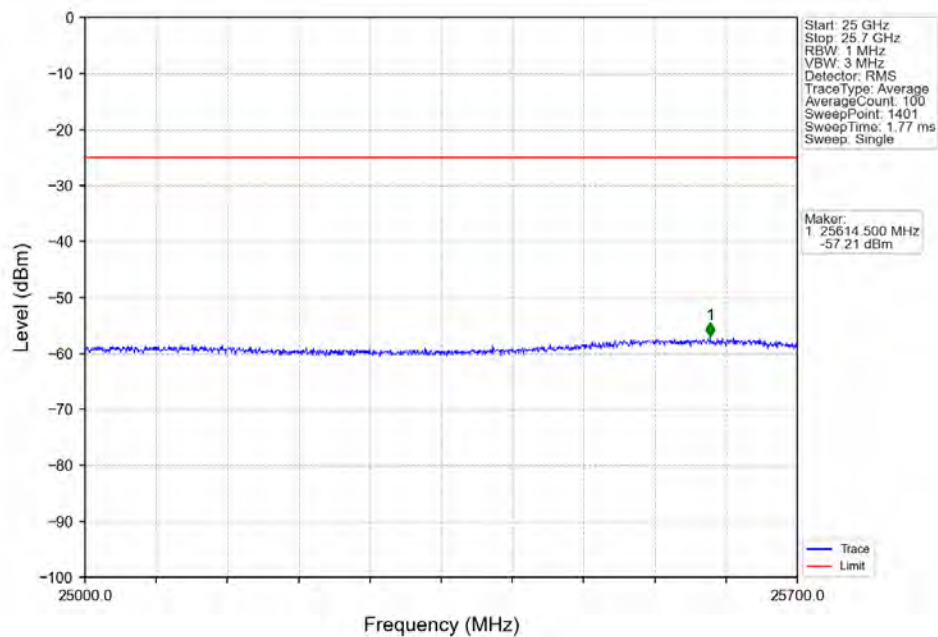
Band7 20MHz QPSK MCH 2535MHz RB 1 0 NTNV



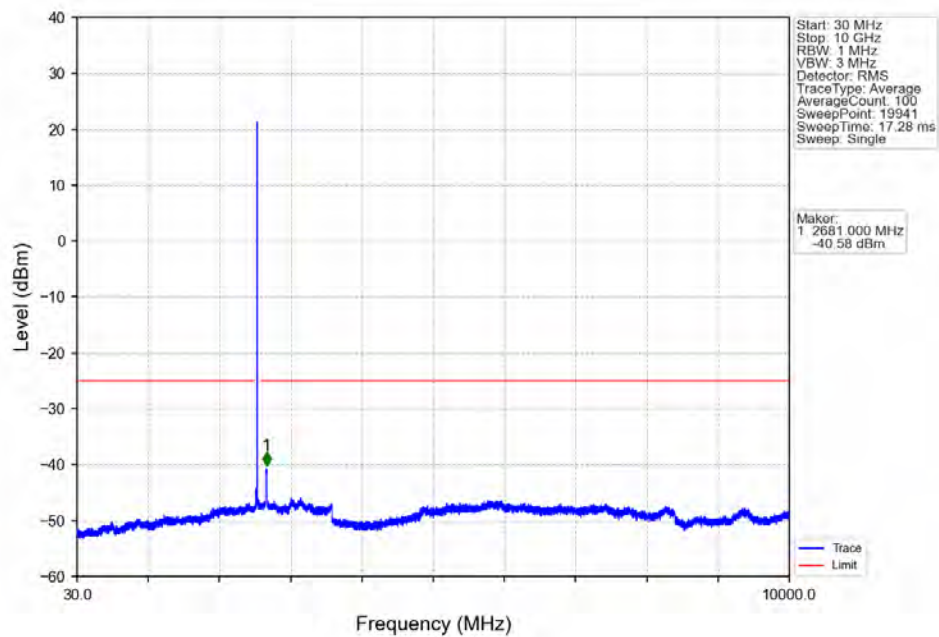
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



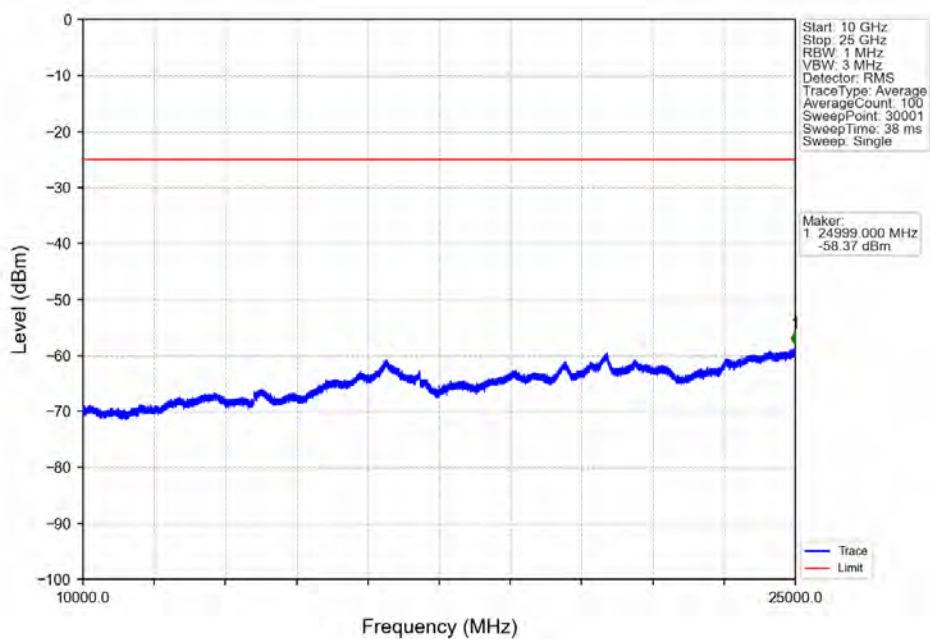
Band7_20MHz_QPSK_MCH_2535MHz_RB_1_0_NTNV



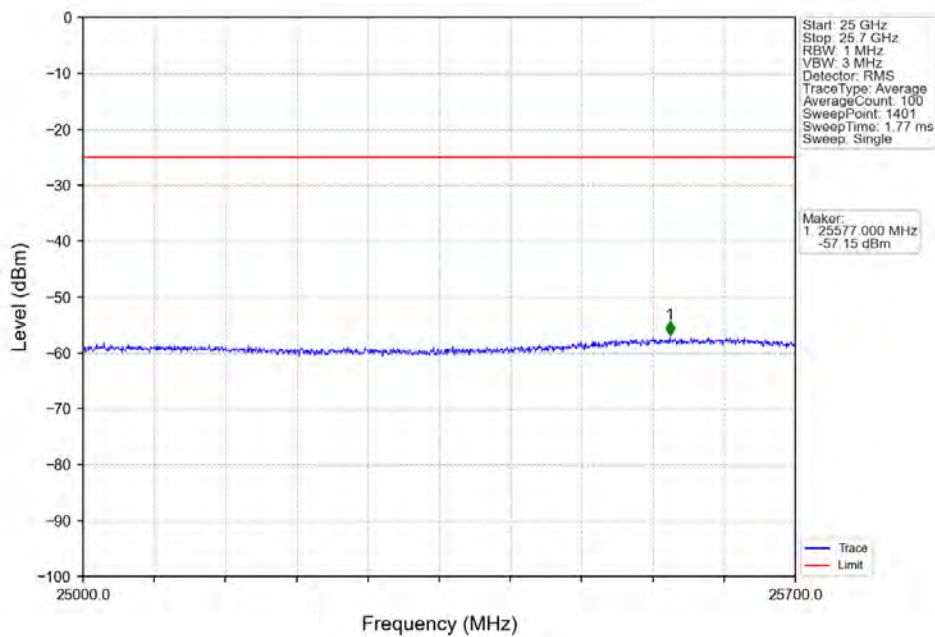
Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTNV



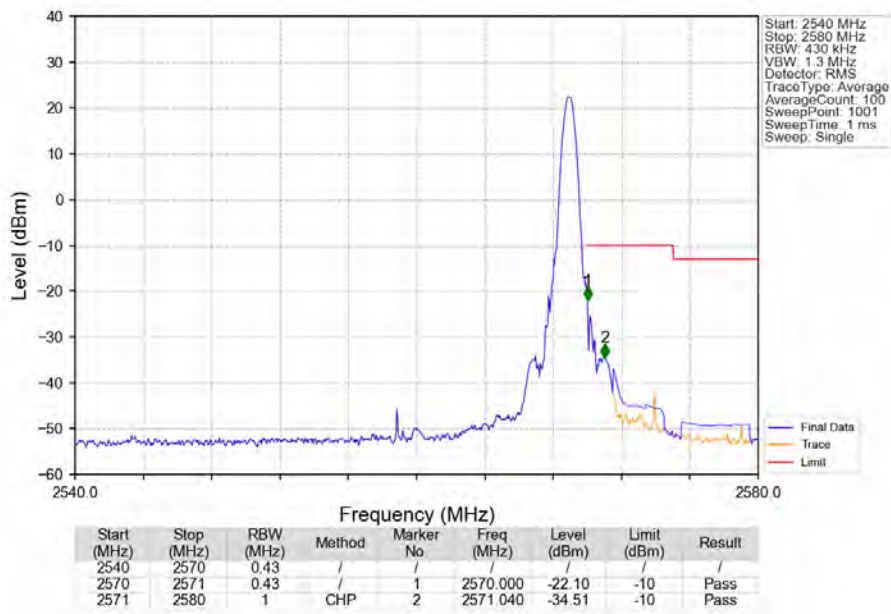
Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTNV



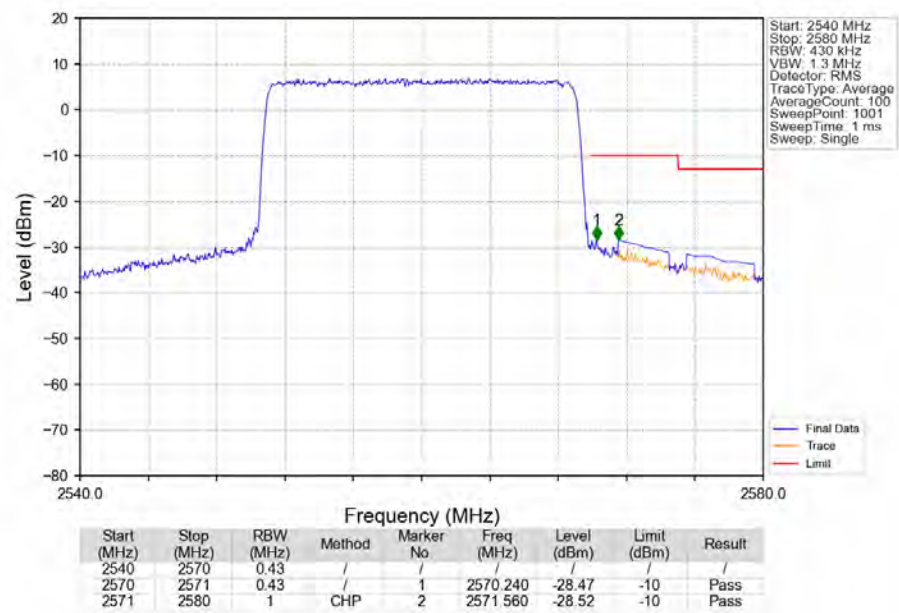
Band7 20MHz QPSK HCH 2560MHz RB 1 0 NTN



Band7 20MHz QPSK HCH 2560MHz RB 1 99 NTN



Band7 20MHz QPSK HCH 2560MHz RB 100 0 NTV



6. Field Strength of Spurious Radiation

For Sample #1:

Test Band = LTE Band7_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3900	45.68	-46.28	29.24	-66.62	-25.00	41.62	Horizontal
2	5468.25	45.68	-45.26	32.24	-62.60	-25.00	37.60	Horizontal
3	6990.75	44.28	-43.60	34.98	-59.60	-25.00	34.60	Horizontal
4	8822.25	44.17	-41.25	36.61	-55.73	-25.00	30.73	Horizontal
5	11254.5	43.03	-37.41	38.73	-50.91	-25.00	25.91	Horizontal
6	14934.75	44.56	-34.67	41.55	-43.82	-25.00	18.82	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3837.75	45.83	-46.06	29.14	-66.35	-25.00	41.35	Vertical
2	5759.625	45.26	-44.79	32.35	-62.44	-25.00	37.44	Vertical
3	7791.375	44.83	-42.38	36.81	-56.00	-25.00	31.00	Vertical
4	10040.25	42.46	-39.19	38.50	-53.49	-25.00	28.49	Vertical
5	11891.625	43.09	-37.09	39.05	-50.21	-25.00	25.21	Vertical
6	14437.875	44.15	-34.82	41.15	-44.77	-25.00	19.77	Vertical

Test Band = LTE Band7_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3741.75	45.40	-45.68	28.99	-66.55	-25.00	41.55	Horizontal
2	5314.5	45.91	-45.12	31.97	-62.50	-25.00	37.50	Horizontal
3	7312.875	45.01	-43.71	35.88	-58.08	-25.00	33.08	Horizontal
4	9411.75	44.71	-39.88	37.32	-53.10	-25.00	28.10	Horizontal
5	11826.75	42.89	-36.98	39.01	-50.34	-25.00	25.34	Horizontal
6	14158.875	43.47	-35.66	40.93	-46.52	-25.00	21.52	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3932.25	46.06	-46.20	29.29	-66.11	-25.00	41.11	Vertical
2	5067.75	45.20	-45.46	31.52	-64.00	-25.00	39.00	Vertical
3	6243	45.50	-44.67	33.23	-61.20	-25.00	36.20	Vertical
4	7816.875	45.00	-42.40	36.84	-55.81	-25.00	30.81	Vertical
5	10890.375	42.19	-37.89	38.59	-52.37	-25.00	27.37	Vertical
6	14388.75	44.73	-34.95	41.11	-44.37	-25.00	19.37	Vertical

Test Band = LTE Band7_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3985.125	45.32	-46.08	29.38	-66.64	-25.00	41.64	Horizontal
2	5844.375	45.59	-44.85	32.37	-62.15	-25.00	37.15	Horizontal
3	6845.25	46.11	-44.14	34.72	-58.57	-25.00	33.57	Horizontal
4	8664.75	44.66	-41.56	36.70	-55.46	-25.00	30.46	Horizontal
5	10039.125	42.43	-39.19	38.50	-53.52	-25.00	28.52	Horizontal
6	13751.625	43.85	-36.28	40.45	-47.24	-25.00	22.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3855.375	45.43	-46.12	29.17	-66.78	-25.00	41.78	Vertical
2	4399.875	45.70	-45.82	30.36	-65.02	-25.00	40.02	Vertical
3	6066.75	45.18	-44.58	32.63	-62.03	-25.00	37.03	Vertical
4	7155.75	45.34	-43.77	35.44	-58.25	-25.00	33.25	Vertical
5	9348.75	44.93	-40.03	37.20	-53.16	-25.00	28.16	Vertical
6	11307.375	42.73	-37.42	38.75	-51.19	-25.00	26.19	Vertical

For Sample #2:

Test Band = LTE Band7_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3884.25	45.99	-46.22	29.21	-66.28	-25.00	41.28	Horizontal
2	4600.125	44.88	-45.67	30.76	-65.29	-25.00	40.29	Horizontal
3	5956.5	45.71	-44.89	32.39	-62.05	-25.00	37.05	Horizontal
4	7051.5	44.29	-43.89	35.14	-59.72	-25.00	34.72	Horizontal
5	8873.25	44.35	-41.24	36.58	-55.58	-25.00	30.58	Horizontal
6	10752.375	42.06	-38.26	38.58	-52.89	-25.00	27.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4139.625	39.89	-45.76	29.74	-71.40	-25.00	46.40	Vertical
2	4935.375	41.35	-45.57	31.30	-68.18	-25.00	43.18	Vertical
3	6337.5	42.06	-44.49	33.55	-64.14	-25.00	39.14	Vertical
4	7450.125	42.09	-43.27	36.26	-60.18	-25.00	35.18	Vertical
5	8563.125	42.21	-41.44	36.76	-57.72	-25.00	32.72	Vertical
6	10706.25	41.38	-37.93	38.57	-53.24	-25.00	28.24	Vertical

Test Band = LTE Band7_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4417.875	45.46	-45.80	30.40	-65.20	-25.00	40.20	Horizontal
2	5513.25	45.85	-45.22	32.30	-62.32	-25.00	37.32	Horizontal
3	6817.5	45.05	-44.16	34.67	-59.70	-25.00	34.70	Horizontal
4	8817	44.45	-41.25	36.61	-55.45	-25.00	30.45	Horizontal
5	11393.625	42.91	-37.37	38.80	-50.93	-25.00	25.93	Horizontal
6	13531.875	43.54	-36.72	40.14	-48.30	-25.00	23.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4444.5	40.68	-45.77	30.47	-69.88	-25.00	44.88	Vertical
2	6212.25	42.50	-44.73	33.12	-64.37	-25.00	39.37	Vertical
3	7899	42.63	-42.81	36.96	-58.49	-25.00	33.49	Vertical
4	10103.25	41.52	-39.13	38.51	-54.36	-25.00	29.36	Vertical
5	13268.25	42.38	-36.98	39.78	-50.09	-25.00	25.09	Vertical
6	14935.125	44.17	-34.67	41.55	-44.21	-25.00	19.21	Vertical

Test Band = LTE Band7_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4444.5	45.21	-45.77	30.47	-65.35	-25.00	40.35	Horizontal
2	5529.375	44.88	-45.19	32.31	-63.26	-25.00	38.26	Horizontal
3	6836.25	44.69	-44.14	34.71	-60.01	-25.00	35.01	Horizontal
4	8661.75	43.85	-41.55	36.70	-56.26	-25.00	31.26	Horizontal
5	10910.625	41.61	-37.81	38.59	-52.87	-25.00	27.87	Horizontal
6	12757.125	43.08	-36.77	39.33	-49.62	-25.00	24.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4242	38.88	-45.67	29.98	-72.07	-25.00	47.07	Vertical
2	5332.5	41.57	-45.16	32.00	-66.85	-25.00	41.85	Vertical
3	6364.875	41.86	-44.46	33.64	-64.22	-25.00	39.22	Vertical
4	7891.5	42.67	-42.78	36.95	-58.42	-25.00	33.42	Vertical
5	9468	42.57	-40.10	37.44	-55.36	-25.00	30.36	Vertical
6	11382.75	41.75	-37.38	38.79	-52.10	-25.00	27.10	Vertical