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Appendix B.13

LTE Band 26(814-824)



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1. Transmitter Conducted Power Output

For report SUCR240400011301:

1.1 B26a_1.4MHz_ERP (NPANT002)

1.1.1 Test Result

Band: 26a / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	814.7	1	0	23.07	3.32	/	<=38.45	Pass
			2	23.06	3.32	/	<=38.45	Pass
			5	23.07	3.32	/	<=38.45	Pass
		3	0	23.13	3.32	/	<=38.45	Pass
			2	23.16	3.32	/	<=38.45	Pass
			3	23.12	3.32	/	<=38.45	Pass
		6	0	22.08	3.32	/	<=38.45	Pass
	819	1	0	23.02	3.32	/	<=38.45	Pass
			2	23.08	3.32	/	<=38.45	Pass
			5	22.99	3.32	/	<=38.45	Pass
		3	0	23.01	3.32	/	<=38.45	Pass
			2	23.07	3.32	/	<=38.45	Pass
			3	23.01	3.32	/	<=38.45	Pass
		6	0	22.00	3.32	/	<=38.45	Pass
	823.3	1	0	23.00	3.32	/	<=38.45	Pass
			2	23.07	3.32	/	<=38.45	Pass
			5	23.06	3.32	/	<=38.45	Pass
		3	0	23.08	3.32	/	<=38.45	Pass
			2	23.16	3.32	/	<=38.45	Pass
			3	23.11	3.32	/	<=38.45	Pass
		6	0	22.08	3.32	/	<=38.45	Pass
16QAM	814.7	1	0	22.06	3.32	/	<=38.45	Pass
			2	22.20	3.32	/	<=38.45	Pass
			5	22.22	3.32	/	<=38.45	Pass
		3	0	22.28	3.32	/	<=38.45	Pass
			2	22.27	3.32	/	<=38.45	Pass
			3	22.15	3.32	/	<=38.45	Pass
		6	0	21.15	3.32	/	<=38.45	Pass
	819	1	0	22.10	3.32	/	<=38.45	Pass
			2	22.03	3.32	/	<=38.45	Pass
			5	22.04	3.32	/	<=38.45	Pass
		3	0	22.10	3.32	/	<=38.45	Pass
			2	22.11	3.32	/	<=38.45	Pass
			3	22.24	3.32	/	<=38.45	Pass
		6	0	20.93	3.32	/	<=38.45	Pass
	823.3	1	0	22.07	3.32	/	<=38.45	Pass
			2	22.15	3.32	/	<=38.45	Pass



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		5	22.21	3.32	/	<=38.45	Pass
		0	22.28	3.32	/	<=38.45	Pass
	3	2	22.21	3.32	/	<=38.45	Pass
		3	22.11	3.32	/	<=38.45	Pass
	6	0	21.09	3.32	/	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B26a_3MHz_ERP

1.2.1 Test Result

Band: 26a / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	815.5	1	0	23.03	3.32	/	<=38.45	Pass
			7	23.12	3.32	/	<=38.45	Pass
			14	23.04	3.32	/	<=38.45	Pass
		8	0	22.10	3.32	/	<=38.45	Pass
			4	22.13	3.32	/	<=38.45	Pass
			7	22.09	3.32	/	<=38.45	Pass
		15	0	22.08	3.32	/	<=38.45	Pass
	819	1	0	23.03	3.32	/	<=38.45	Pass
			7	23.07	3.32	/	<=38.45	Pass
			14	22.95	3.32	/	<=38.45	Pass
		8	0	22.06	3.32	/	<=38.45	Pass
			4	22.10	3.32	/	<=38.45	Pass
			7	22.07	3.32	/	<=38.45	Pass
		15	0	22.06	3.32	/	<=38.45	Pass
	822.5	1	0	22.99	3.32	/	<=38.45	Pass
			7	23.12	3.32	/	<=38.45	Pass
			14	23.08	3.32	/	<=38.45	Pass
		8	0	22.06	3.32	/	<=38.45	Pass
			4	22.19	3.32	/	<=38.45	Pass
			7	22.15	3.32	/	<=38.45	Pass
		15	0	22.15	3.32	/	<=38.45	Pass
16QAM	815.5	1	0	22.64	3.32	/	<=38.45	Pass
			7	22.20	3.32	/	<=38.45	Pass
			14	22.20	3.32	/	<=38.45	Pass
		8	0	21.31	3.32	/	<=38.45	Pass
			4	21.23	3.32	/	<=38.45	Pass
			7	21.12	3.32	/	<=38.45	Pass
		15	0	21.18	3.32	/	<=38.45	Pass
	819	1	0	22.20	3.32	/	<=38.45	Pass
			7	22.69	3.32	/	<=38.45	Pass
			14	22.05	3.32	/	<=38.45	Pass
		8	0	21.04	3.32	/	<=38.45	Pass
			4	21.27	3.32	/	<=38.45	Pass
			7	21.13	3.32	/	<=38.45	Pass
		15	0	21.10	3.32	/	<=38.45	Pass
	822.5	1	0	22.12	3.32	/	<=38.45	Pass
			7	22.29	3.32	/	<=38.45	Pass
			14	22.62	3.32	/	<=38.45	Pass
		8	0	21.15	3.32	/	<=38.45	Pass
			4	21.20	3.32	/	<=38.45	Pass
			7	21.34	3.32	/	<=38.45	Pass
		15	0	21.21	3.32	/	<=38.45	Pass



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Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.3 B26a_5MHz_ERP

1.3.1 Test Result

Band: 26a / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	816.5	1	0	23.03	3.32	/	<=38.45	Pass
			13	23.10	3.32	/	<=38.45	Pass
			24	22.99	3.32	/	<=38.45	Pass
		12	0	22.11	3.32	/	<=38.45	Pass
			6	22.11	3.32	/	<=38.45	Pass
			13	22.03	3.32	/	<=38.45	Pass
		25	0	22.11	3.32	/	<=38.45	Pass
	819	1	0	23.05	3.32	/	<=38.45	Pass
			13	23.08	3.32	/	<=38.45	Pass
			24	22.97	3.32	/	<=38.45	Pass
		12	0	22.07	3.32	/	<=38.45	Pass
			6	22.10	3.32	/	<=38.45	Pass
			13	22.05	3.32	/	<=38.45	Pass
		25	0	22.06	3.32	/	<=38.45	Pass
	821.5	1	0	23.01	3.32	/	<=38.45	Pass
			13	23.06	3.32	/	<=38.45	Pass
			24	23.03	3.32	/	<=38.45	Pass
		12	0	22.09	3.32	/	<=38.45	Pass
			6	22.08	3.32	/	<=38.45	Pass
			13	22.17	3.32	/	<=38.45	Pass
		25	0	22.15	3.32	/	<=38.45	Pass
16QAM	816.5	1	0	22.15	3.32	/	<=38.45	Pass
			13	22.38	3.32	/	<=38.45	Pass
			24	21.89	3.32	/	<=38.45	Pass
		12	0	21.12	3.32	/	<=38.45	Pass
			6	21.19	3.32	/	<=38.45	Pass
			13	21.10	3.32	/	<=38.45	Pass
		25	0	21.15	3.32	/	<=38.45	Pass
	819	1	0	21.88	3.32	/	<=38.45	Pass
			13	22.20	3.32	/	<=38.45	Pass
			24	22.24	3.32	/	<=38.45	Pass
		12	0	21.09	3.32	/	<=38.45	Pass
			6	21.10	3.32	/	<=38.45	Pass
			13	21.14	3.32	/	<=38.45	Pass
		25	0	21.15	3.32	/	<=38.45	Pass
	821.5	1	0	22.30	3.32	/	<=38.45	Pass
			13	21.97	3.32	/	<=38.45	Pass
			24	22.19	3.32	/	<=38.45	Pass
		12	0	21.16	3.32	/	<=38.45	Pass
			6	21.11	3.32	/	<=38.45	Pass
			13	21.16	3.32	/	<=38.45	Pass
		25	0	21.18	3.32	/	<=38.45	Pass



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Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.4 B26a_10MHz_ERP

1.4.1 Test Result

Band: 26a / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	819	1	0	23.02	3.32	/	<=38.45	Pass
			25	22.95	3.32	/	<=38.45	Pass
			49	23.02	3.32	/	<=38.45	Pass
		25	0	22.07	3.32	/	<=38.45	Pass
			13	22.09	3.32	/	<=38.45	Pass
			25	22.11	3.32	/	<=38.45	Pass
		50	0	22.18	3.32	/	<=38.45	Pass
16QAM	819	1	0	22.61	3.32	/	<=38.45	Pass
			25	22.01	3.32	/	<=38.45	Pass
			49	22.24	3.32	/	<=38.45	Pass
		25	0	21.17	3.32	/	<=38.45	Pass
			13	21.24	3.32	/	<=38.45	Pass
			25	21.20	3.32	/	<=38.45	Pass
		50	0	21.21	3.32	/	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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For report SUCR240500014801:

1.5 B26a_1.4MHz_ERP(NPANT002)

1.5.1 Test Result

Band: 26a / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	814.7	1	0	22.50	3.32	/	/	Pass
			2	22.66	3.32	/	/	Pass
			5	22.53	3.32	/	/	Pass
		3	0	22.51	3.32	/	/	Pass
			2	22.59	3.32	/	/	Pass
			3	22.53	3.32	/	/	Pass
		6	0	21.54	3.32	/	/	Pass
	819	1	0	22.52	3.32	/	/	Pass
			2	22.55	3.32	/	/	Pass
			5	22.56	3.32	/	/	Pass
		3	0	22.48	3.32	/	/	Pass
			2	22.52	3.32	/	/	Pass
			3	22.48	3.32	/	/	Pass
		6	0	21.56	3.32	/	/	Pass
	823.3	1	0	22.64	3.32	/	/	Pass
			2	22.69	3.32	/	/	Pass
			5	22.56	3.32	/	/	Pass
		3	0	22.59	3.32	/	/	Pass
			2	22.65	3.32	/	/	Pass
			3	22.60	3.32	/	/	Pass
		6	0	21.62	3.32	/	/	Pass
16QAM	814.7	1	0	21.50	3.32	/	/	Pass
			2	21.50	3.32	/	/	Pass
			5	21.65	3.32	/	/	Pass
		3	0	21.69	3.32	/	/	Pass
			2	21.60	3.32	/	/	Pass
			3	21.62	3.32	/	/	Pass
		6	0	20.60	3.32	/	/	Pass
	819	1	0	21.57	3.32	/	/	Pass
			2	21.52	3.32	/	/	Pass
			5	21.40	3.32	/	/	Pass
		3	0	21.52	3.32	/	/	Pass
			2	21.73	3.32	/	/	Pass
			3	21.48	3.32	/	/	Pass
		6	0	20.43	3.32	/	/	Pass
	823.3	1	0	21.54	3.32	/	/	Pass
			2	21.64	3.32	/	/	Pass
			5	21.50	3.32	/	/	Pass
		3	0	21.66	3.32	/	/	Pass
			2	21.83	3.32	/	/	Pass



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		3	21.62	3.32	/	/	Pass
	6	0	20.56	3.32	/	/	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.6 B26a_3MHz_ERP

1.6.1 Test Result

Band: 26a / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	815.5	1	0	22.58	3.32	/	/	Pass	
			7	22.69	3.32	/	/	Pass	
			14	22.53	3.32	/	/	Pass	
		8	0	21.59	3.32	/	/	Pass	
			4	21.61	3.32	/	/	Pass	
			7	21.56	3.32	/	/	Pass	
		15	0	21.61	3.32	/	/	Pass	
		819	1	0	22.48	3.32	/	/	Pass
				7	22.61	3.32	/	/	Pass
	14			22.59	3.32	/	/	Pass	
	8		0	21.61	3.32	/	/	Pass	
			4	21.59	3.32	/	/	Pass	
			7	21.53	3.32	/	/	Pass	
	15	0	21.58	3.32	/	/	Pass		
	822.5	1	0	22.59	3.32	/	/	Pass	
			7	22.61	3.32	/	/	Pass	
			14	22.58	3.32	/	/	Pass	
		8	0	21.60	3.32	/	/	Pass	
			4	21.74	3.32	/	/	Pass	
			7	21.68	3.32	/	/	Pass	
		15	0	21.70	3.32	/	/	Pass	
16QAM		815.5	1	0	21.50	3.32	/	/	Pass
				7	21.78	3.32	/	/	Pass
	14			21.74	3.32	/	/	Pass	
	8		0	20.64	3.32	/	/	Pass	
			4	20.63	3.32	/	/	Pass	
			7	20.59	3.32	/	/	Pass	
	15	0	20.62	3.32	/	/	Pass		
	819	1	0	21.77	3.32	/	/	Pass	
			7	21.54	3.32	/	/	Pass	
			14	21.62	3.32	/	/	Pass	
		8	0	20.60	3.32	/	/	Pass	
4			20.63	3.32	/	/	Pass		
7			20.54	3.32	/	/	Pass		
15	0	20.56	3.32	/	/	Pass			
822.5	1	0	21.65	3.32	/	/	Pass		
		7	21.82	3.32	/	/	Pass		



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		14	21.57	3.32	/	/	Pass
		0	20.55	3.32	/	/	Pass
	8	4	20.71	3.32	/	/	Pass
		7	20.71	3.32	/	/	Pass
	15	0	20.57	3.32	/	/	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.7 B26a_5MHz_ERP

1.7.1 Test Result

Band: 26a / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	816.5	1	0	22.54	3.32	/	/	Pass
			13	22.55	3.32	/	/	Pass
			24	22.50	3.32	/	/	Pass
		12	0	21.63	3.32	/	/	Pass
			6	21.60	3.32	/	/	Pass
			13	21.60	3.32	/	/	Pass
		25	0	21.60	3.32	/	/	Pass
			0	22.54	3.32	/	/	Pass
			13	22.59	3.32	/	/	Pass
	819	1	24	22.44	3.32	/	/	Pass
			0	21.63	3.32	/	/	Pass
			6	21.61	3.32	/	/	Pass
		12	13	21.56	3.32	/	/	Pass
			0	21.54	3.32	/	/	Pass
			0	22.51	3.32	/	/	Pass
		1	13	22.58	3.32	/	/	Pass
			24	22.65	3.32	/	/	Pass
			0	21.60	3.32	/	/	Pass
16QAM	816.5	1	6	21.62	3.32	/	/	Pass
			13	21.67	3.32	/	/	Pass
			0	21.66	3.32	/	/	Pass
		12	0	21.80	3.32	/	/	Pass
			13	21.79	3.32	/	/	Pass
			24	21.75	3.32	/	/	Pass
		25	0	20.59	3.32	/	/	Pass
			6	20.57	3.32	/	/	Pass
			13	20.54	3.32	/	/	Pass
	819	1	0	20.61	3.32	/	/	Pass
			0	21.79	3.32	/	/	Pass
			13	21.84	3.32	/	/	Pass
		12	24	21.63	3.32	/	/	Pass
			0	20.60	3.32	/	/	Pass
			6	20.62	3.32	/	/	Pass
		25	13	20.50	3.32	/	/	Pass



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	821.5	25	0	20.56	3.32	/	/	Pass
		1	0	21.67	3.32	/	/	Pass
			13	21.79	3.32	/	/	Pass
			24	21.85	3.32	/	/	Pass
			0	20.52	3.32	/	/	Pass
		12	6	20.57	3.32	/	/	Pass
			13	20.67	3.32	/	/	Pass
			0	20.63	3.32	/	/	Pass
		25	0	20.63	3.32	/	/	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.8 B26a_10MHz_ERP

1.8.1 Test Result

Band: 26a / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	819	1	0	22.54	3.32	/	/	Pass
			25	22.54	3.32	/	/	Pass
			49	22.68	3.32	/	/	Pass
		25	0	21.59	3.32	/	/	Pass
			13	21.60	3.32	/	/	Pass
			25	21.64	3.32	/	/	Pass
		50	0	21.67	3.32	/	/	Pass
16QAM	819	1	0	21.78	3.32	/	/	Pass
			25	21.45	3.32	/	/	Pass
			49	21.70	3.32	/	/	Pass
		25	0	20.68	3.32	/	/	Pass
			13	20.57	3.32	/	/	Pass
			25	20.66	3.32	/	/	Pass
		50	0	20.67	3.32	/	/	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.4 B26a_10MHz

2.4.1 Test Result

Band: 26a / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	819	50	0	20	3.135	-2.401	-0.0029	/	Pass
					3.7	-1.381	-0.0017	/	Pass
					4.4	-2.091	-0.0026	/	Pass
				-30	3.7	-4.325	-0.0053	/	Pass
				-20	3.7	-1.407	-0.0017	/	Pass
				-10	3.7	-8.407	-0.0103	/	Pass
				0	3.7	-0.938	-0.0011	/	Pass
				10	3.7	-1.282	-0.0016	/	Pass
				30	3.7	-6.251	-0.0076	/	Pass
				40	3.7	-2.838	-0.0035	/	Pass
16QAM	819	50	0	20	3.135	-5.526	-0.0067	/	Pass
					3.7	-5.031	-0.0061	/	Pass
					4.4	-3.027	-0.0037	/	Pass
				-30	3.7	-2.764	-0.0034	/	Pass
				-20	3.7	-8.407	-0.0103	/	Pass
				-10	3.7	-6.295	-0.0077	/	Pass
				0	3.7	-8.786	-0.0107	/	Pass
				10	3.7	-9.095	-0.0111	/	Pass
				30	3.7	-2.394	-0.0029	/	Pass
				40	3.7	-0.678	-0.0008	/	Pass
				50	3.7	-8.541	-0.0104	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band26a_OBW

3.1.1 Test Result

Band: 26a / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	814.7	6	0	1.110	/	Pass
		819	6	0	1.112	/	Pass
		823.3	6	0	1.105	/	Pass
	16QAM	814.7	6	0	1.108	/	Pass
		819	6	0	1.100	/	Pass
		823.3	6	0	1.110	/	Pass
3	QPSK	815.5	15	0	2.745	/	Pass
		819	15	0	2.743	/	Pass
		822.5	15	0	2.744	/	Pass
	16QAM	815.5	15	0	2.733	/	Pass
		819	15	0	2.752	/	Pass
		822.5	15	0	2.737	/	Pass
5	QPSK	816.5	25	0	4.576	/	Pass
		819	25	0	4.545	/	Pass
		821.5	25	0	4.537	/	Pass
	16QAM	816.5	25	0	4.580	/	Pass
		819	25	0	4.541	/	Pass
		821.5	25	0	4.567	/	Pass
10	QPSK	819	50	0	9.024	/	Pass
	16QAM	819	50	0	9.022	/	Pass



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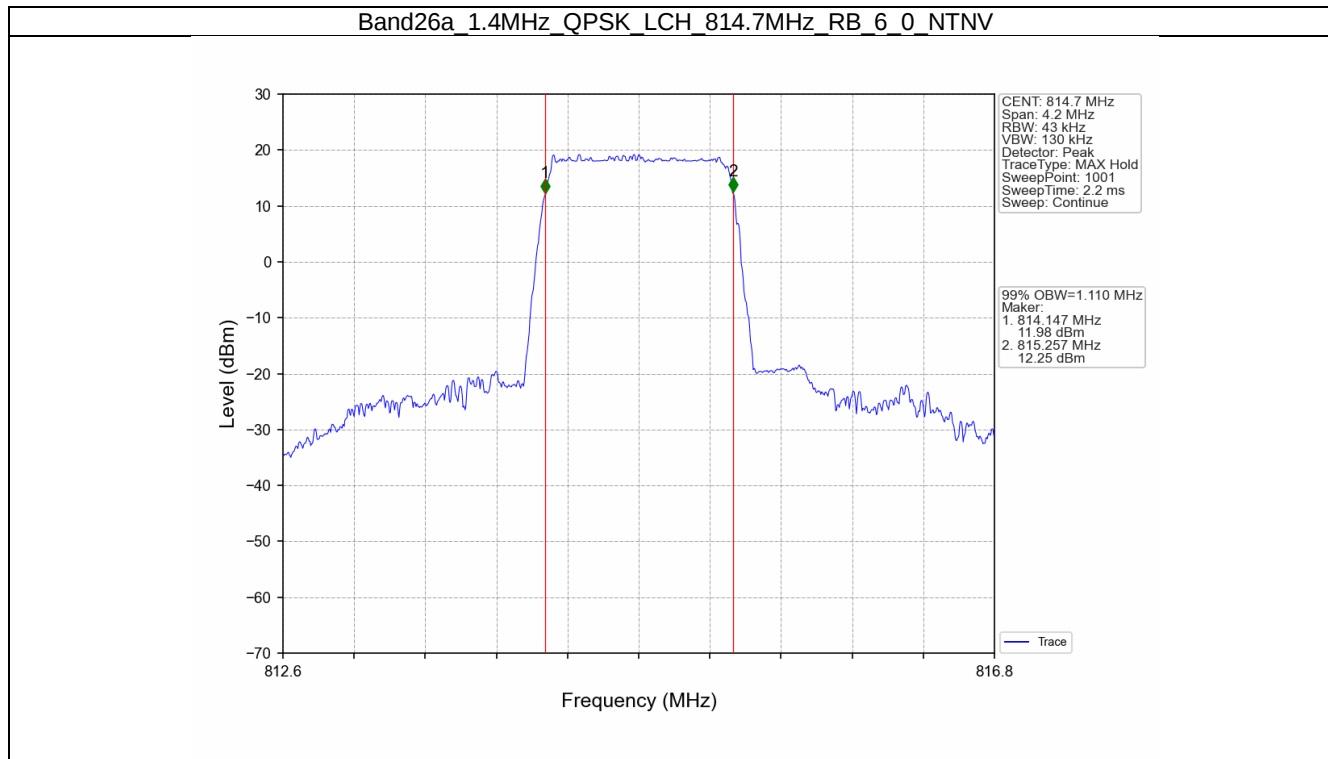
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3.1.2 Test Graph



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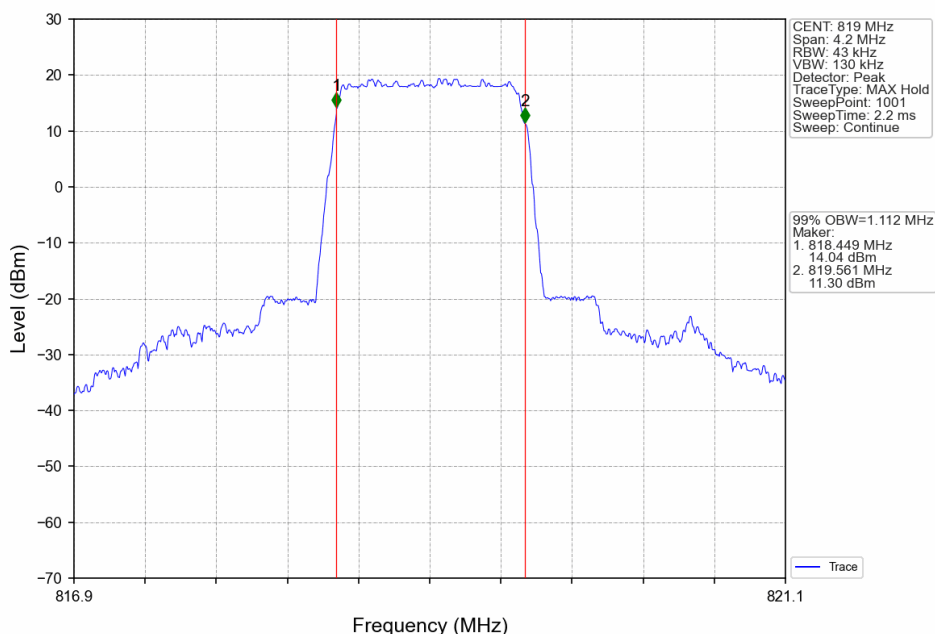
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Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV



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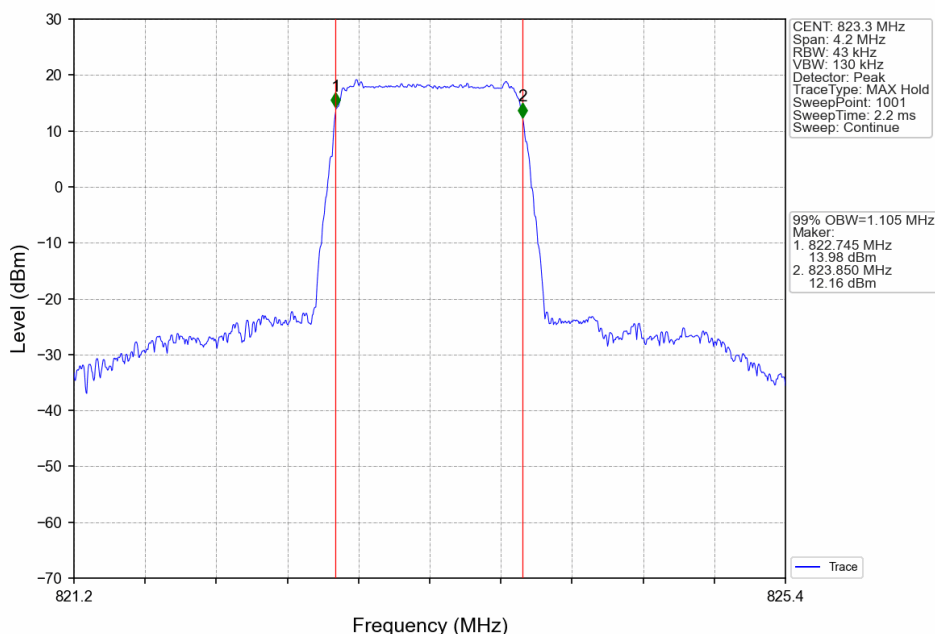
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Band26a 1.4MHz QPSK HCH 823.3MHz RB 6 0 NTN



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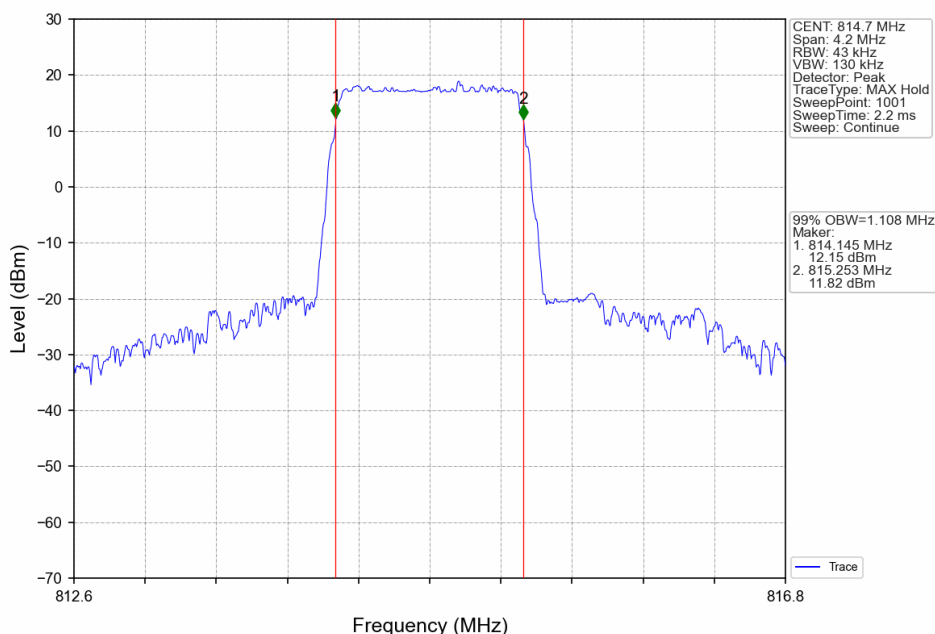
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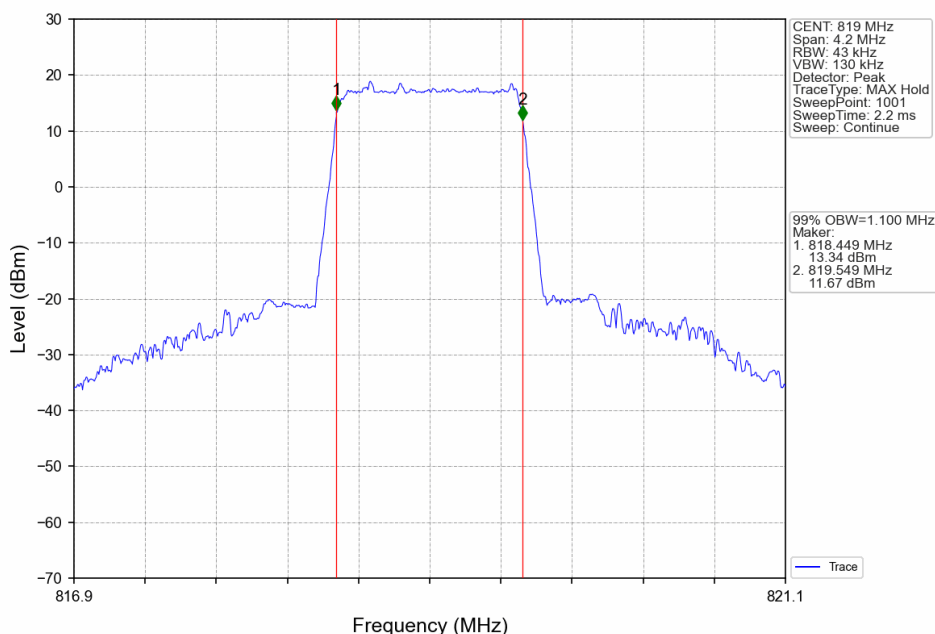
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Band26a 1.4MHz 16QAM MCH 819MHz RB 6 0 NTN



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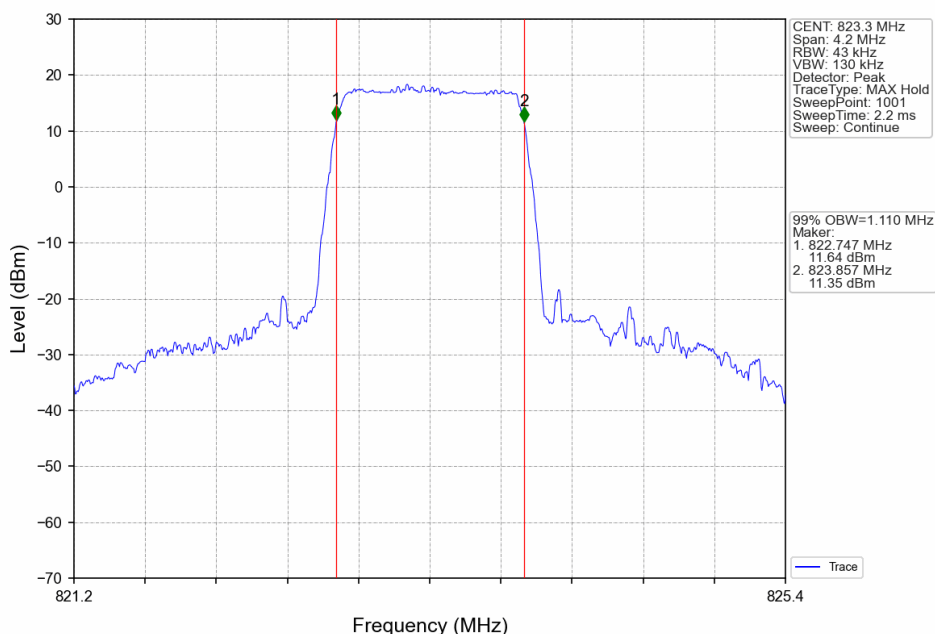
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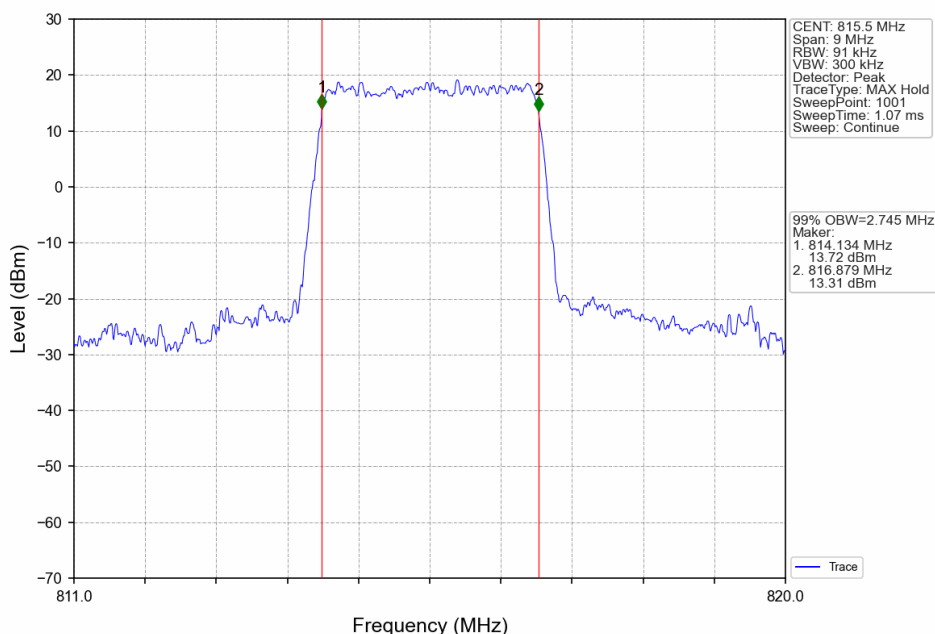
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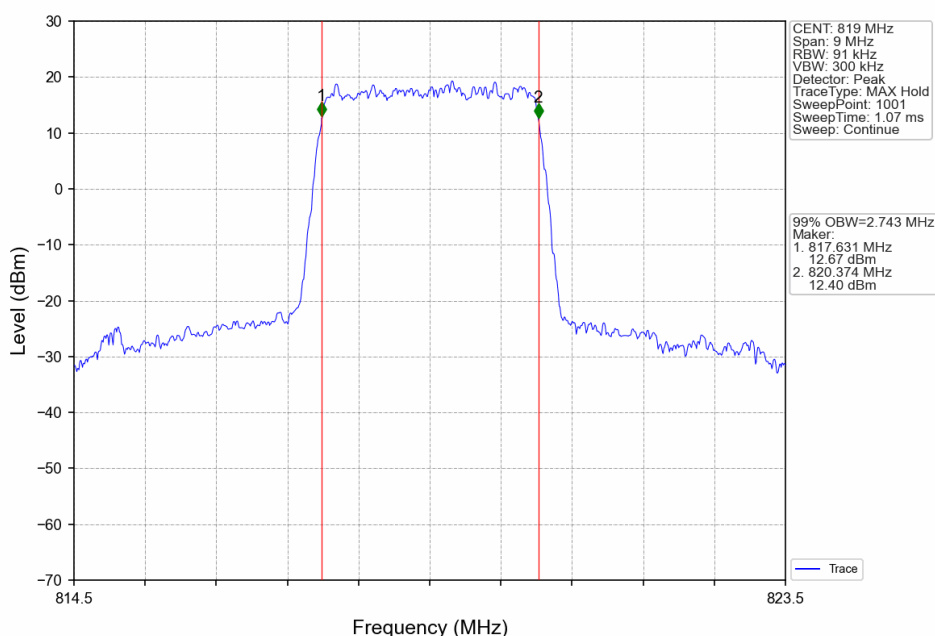
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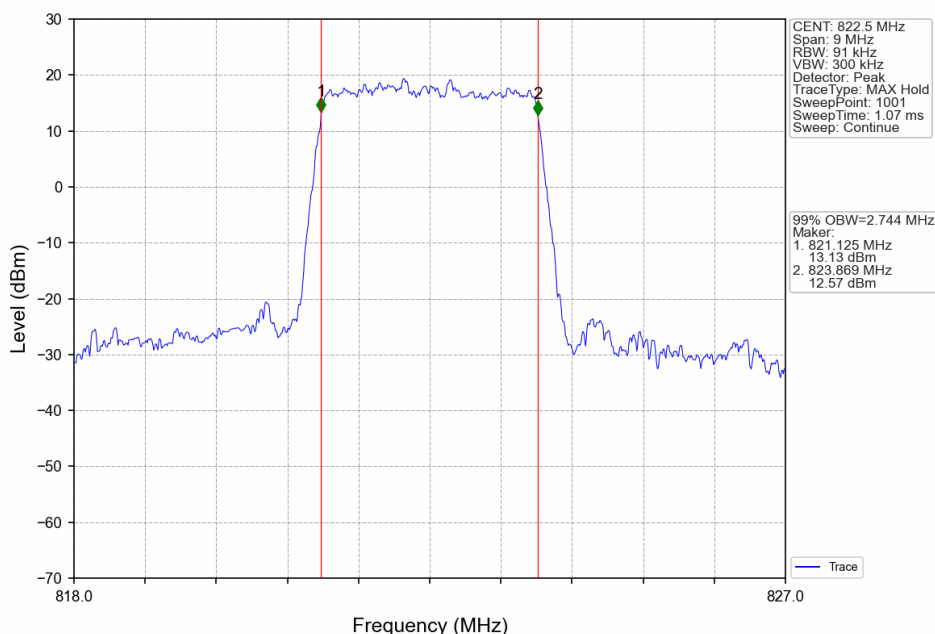
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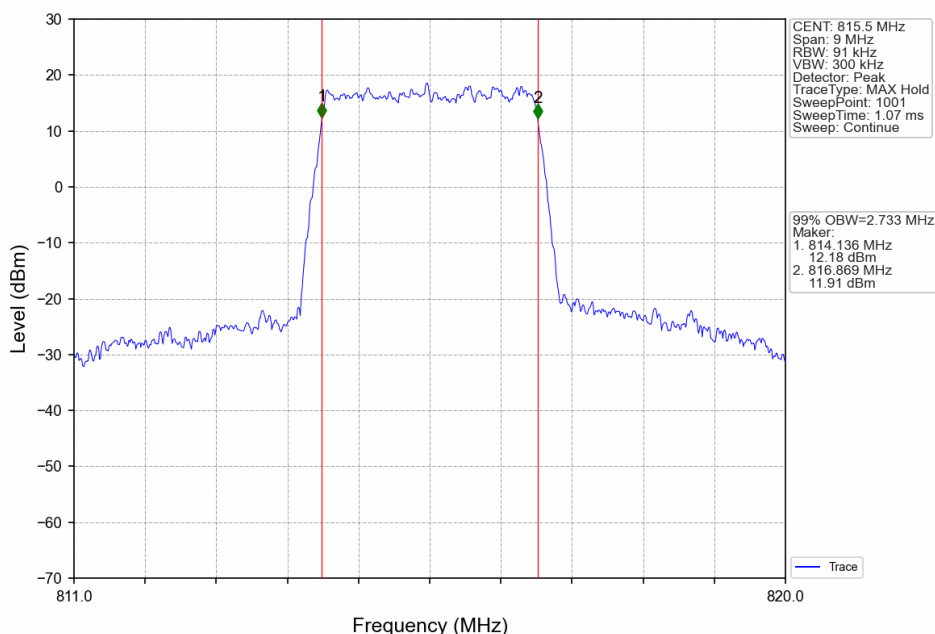
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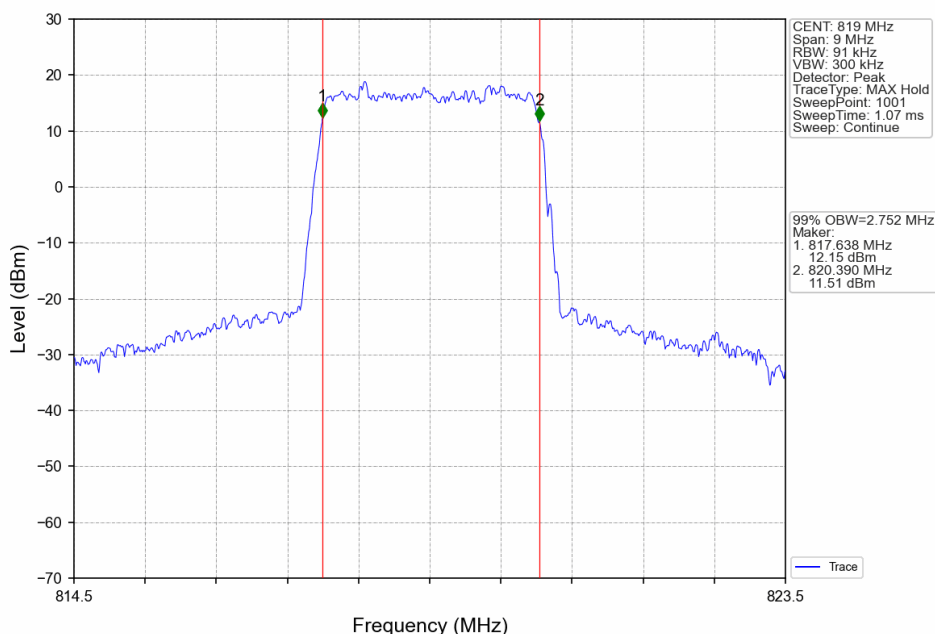
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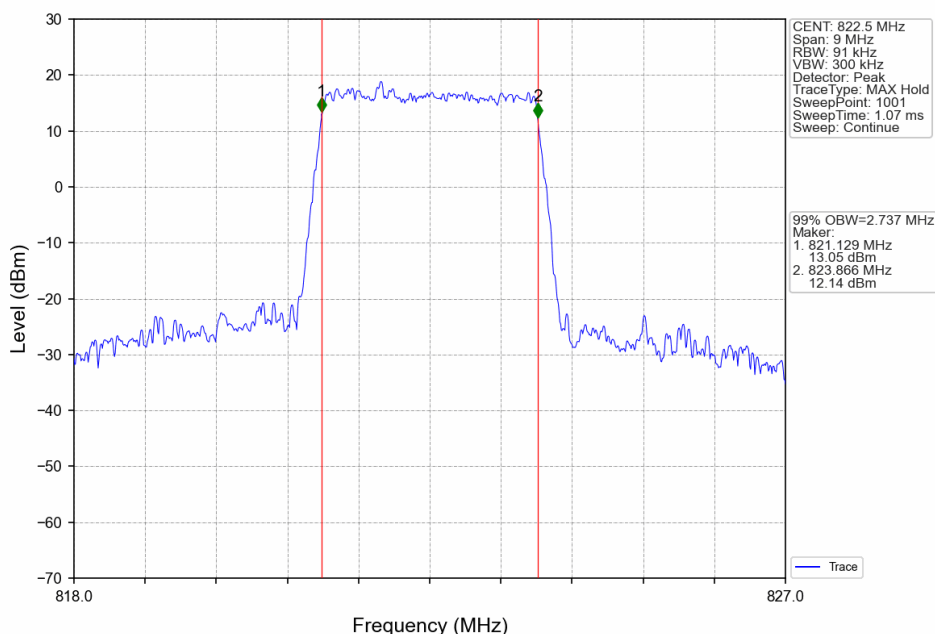
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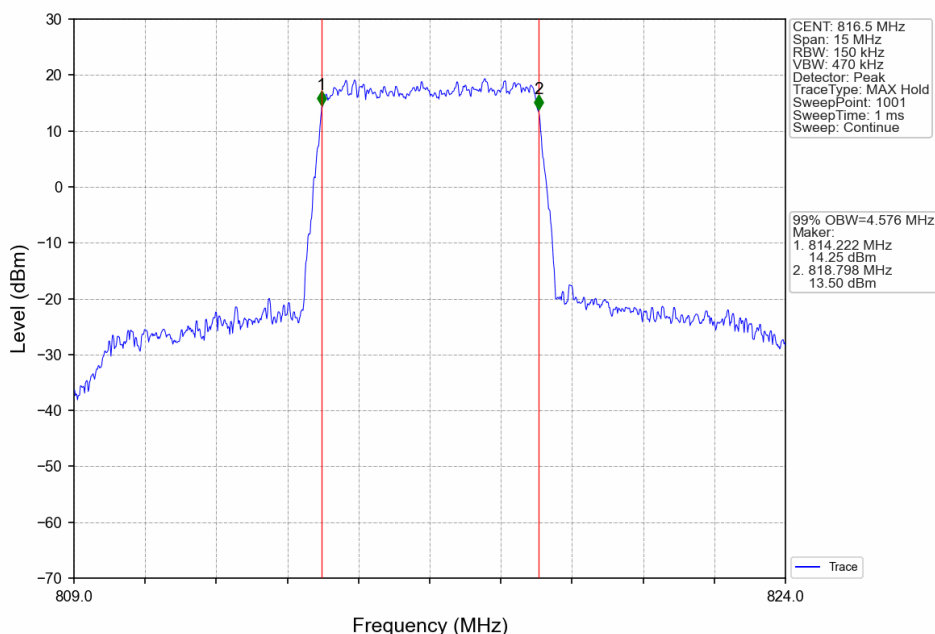
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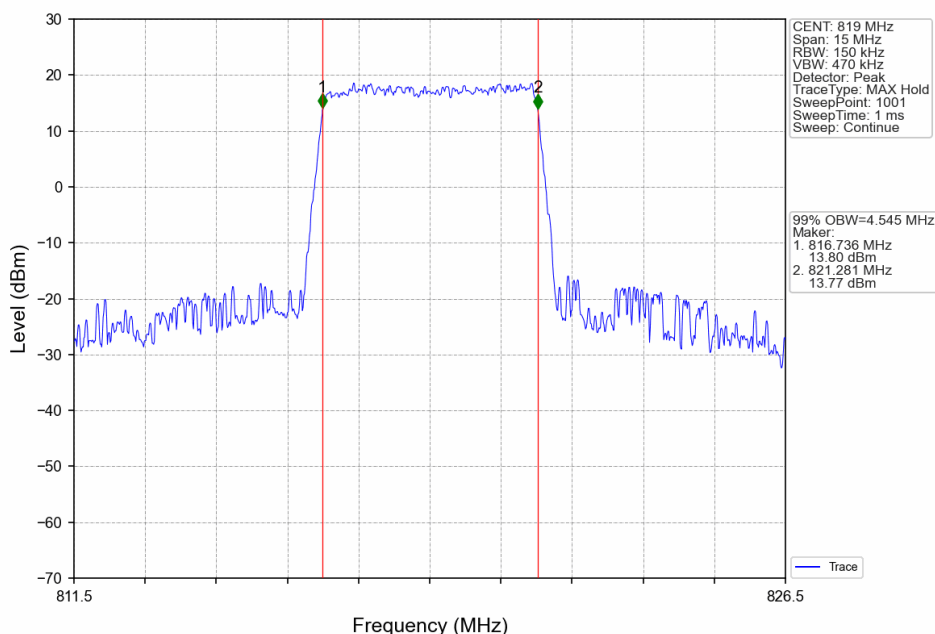
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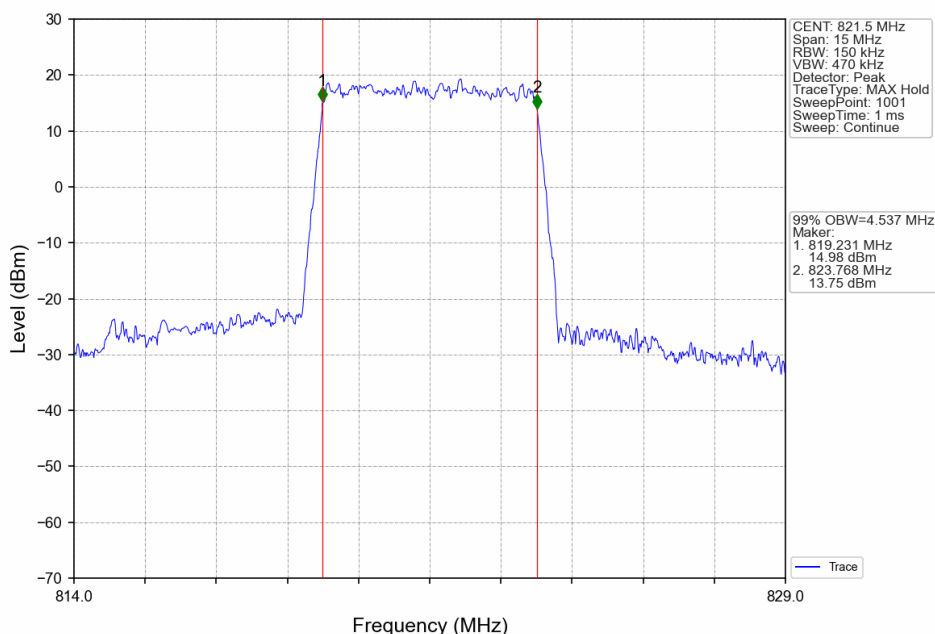
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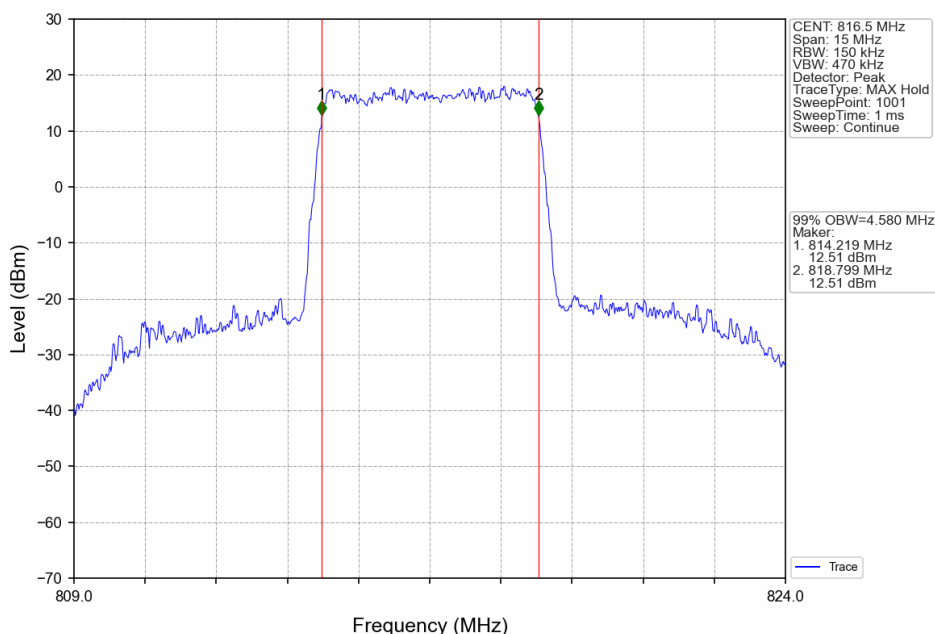
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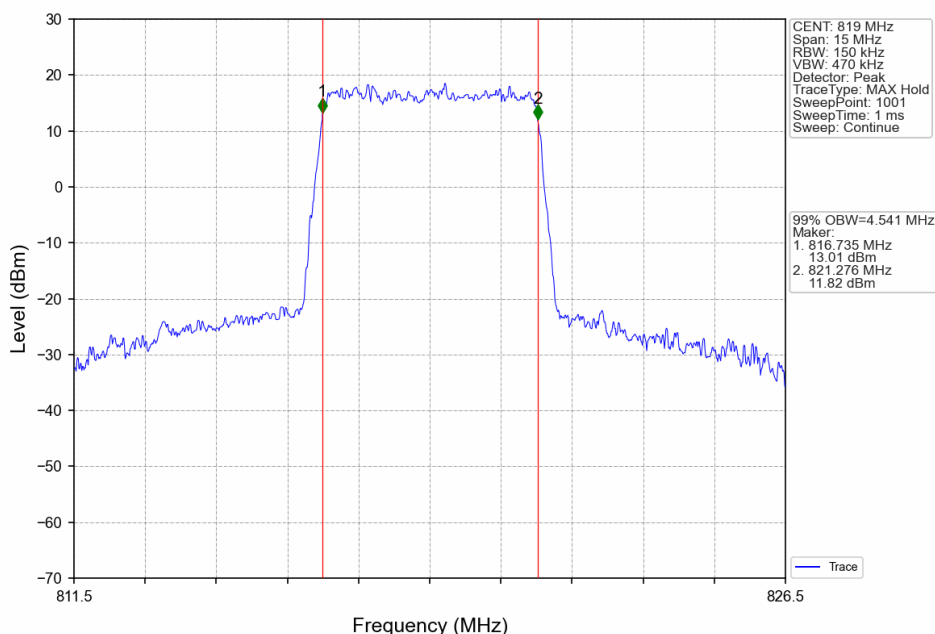
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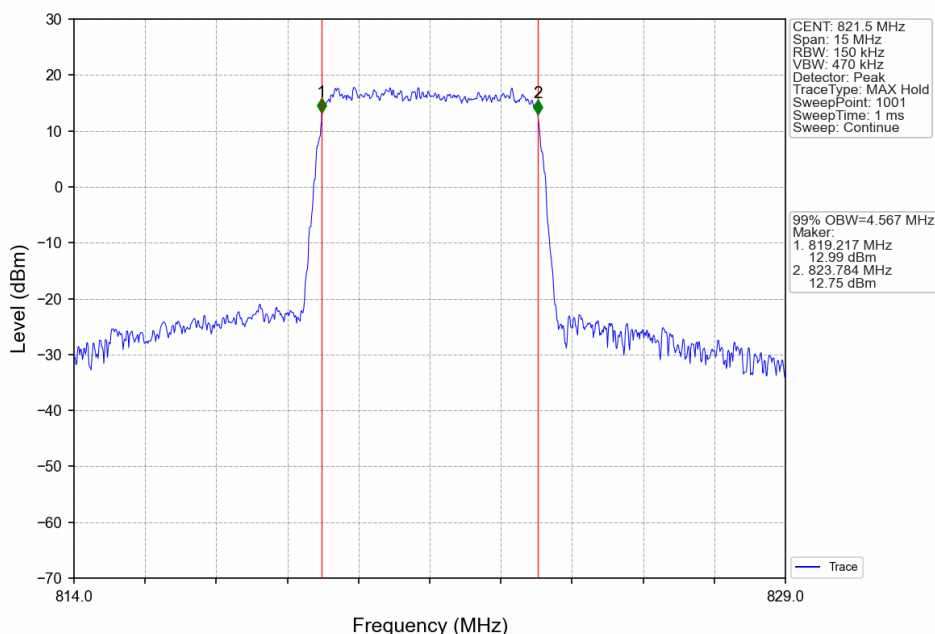
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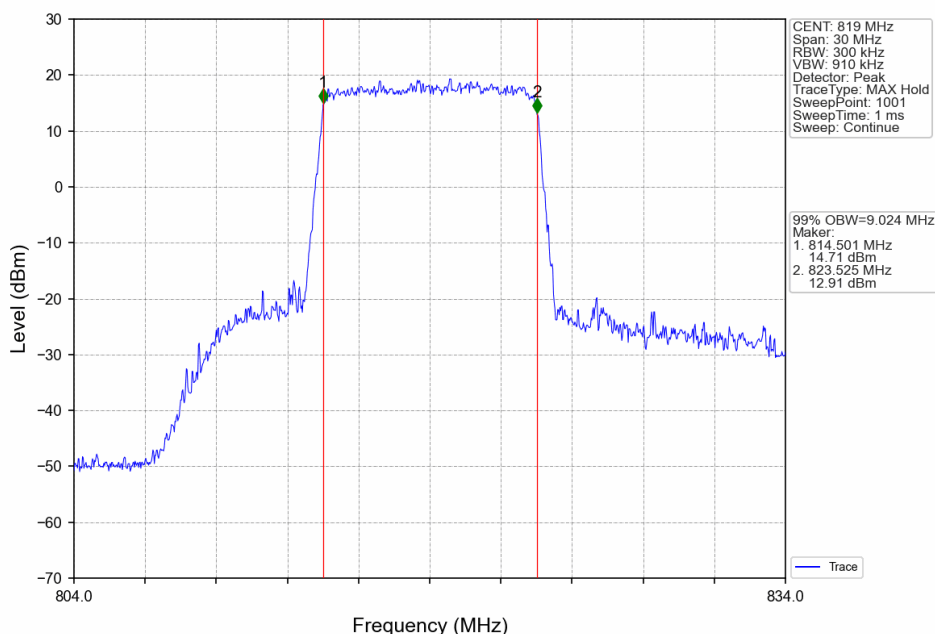
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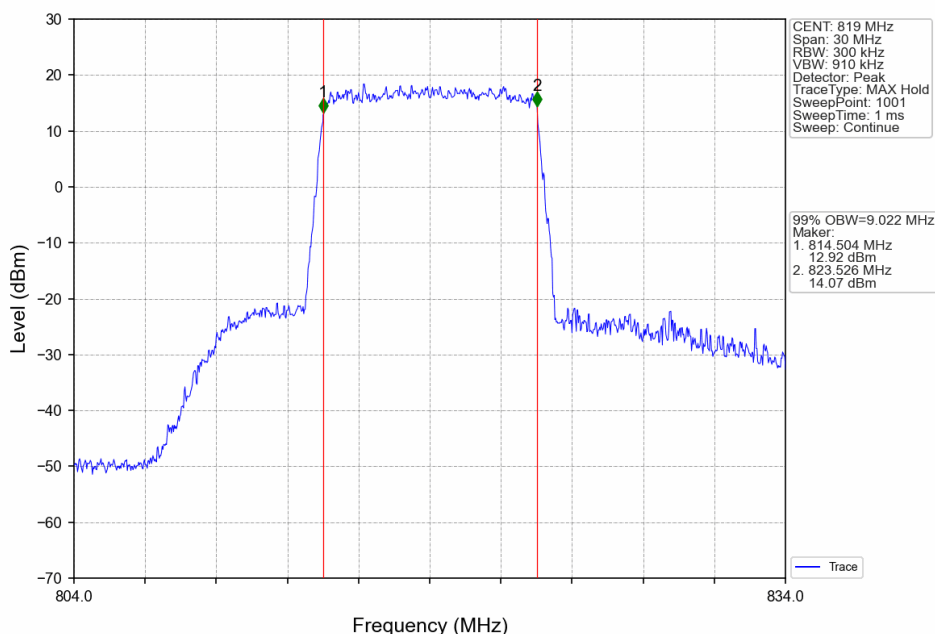
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3.2 Band26a_XDB

3.2.1 Test Result

Band: 26a / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	814.7	6	0	1.262	/	Pass
		819	6	0	1.256	/	Pass
		823.3	6	0	1.263	/	Pass
	16QAM	814.7	6	0	1.267	/	Pass
		819	6	0	1.249	/	Pass
		823.3	6	0	1.264	/	Pass
3	QPSK	815.5	15	0	3.061	/	Pass
		819	15	0	3.068	/	Pass
		822.5	15	0	3.063	/	Pass
	16QAM	815.5	15	0	3.069	/	Pass
		819	15	0	3.072	/	Pass
		822.5	15	0	3.058	/	Pass
5	QPSK	816.5	25	0	5.067	/	Pass
		819	25	0	5.070	/	Pass
		821.5	25	0	5.015	/	Pass
	16QAM	816.5	25	0	5.099	/	Pass
		819	25	0	5.044	/	Pass
		821.5	25	0	5.056	/	Pass
10	QPSK	819	50	0	9.883	/	Pass
	16QAM	819	50	0	9.980	/	Pass



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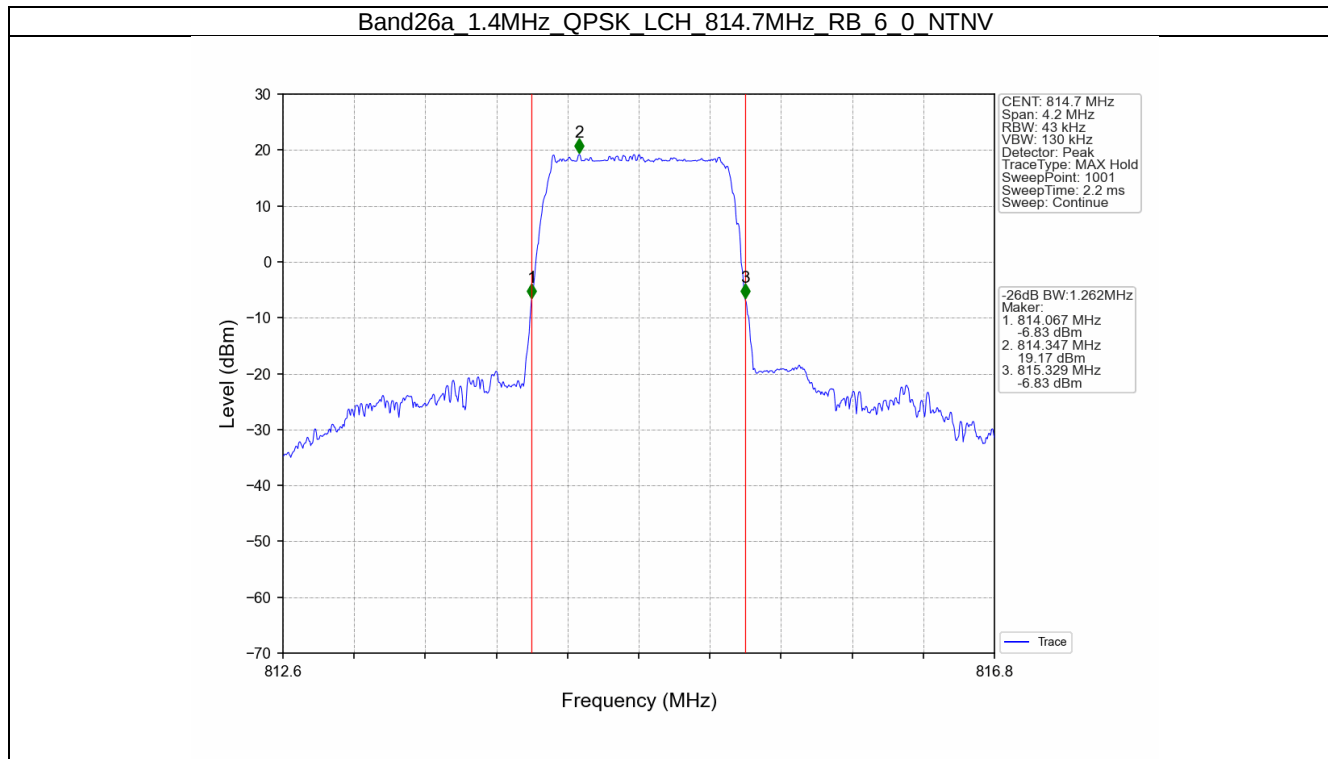
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3.2.2 Test Graph



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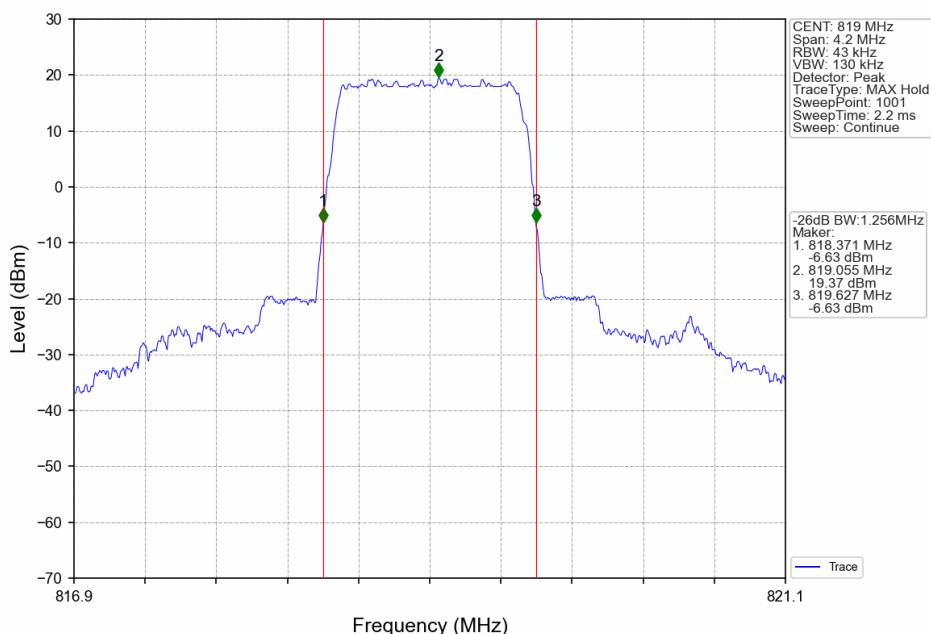
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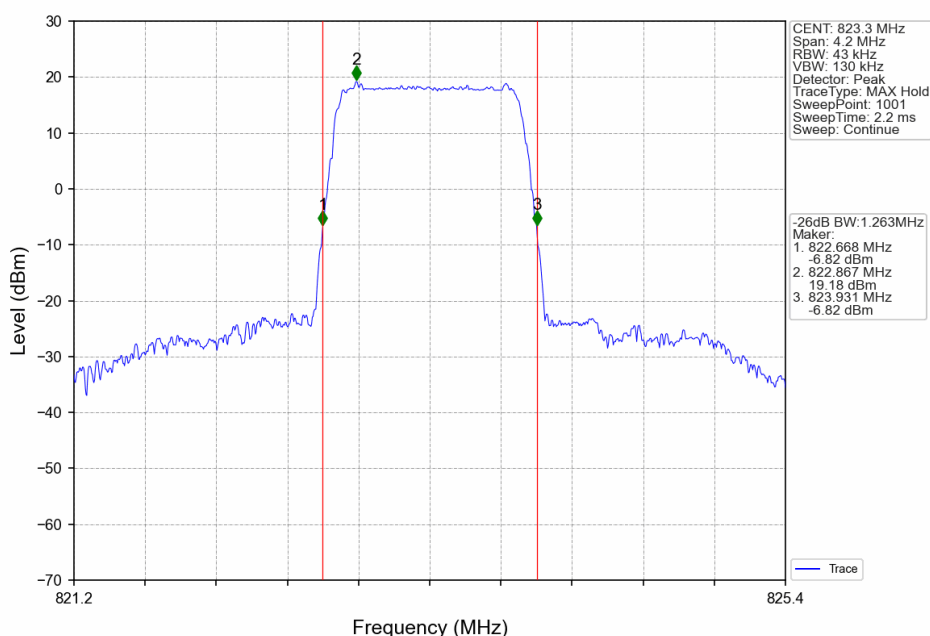
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Band26a 1.4MHz QPSK HCH 823.3MHz RB 6 0 NTN



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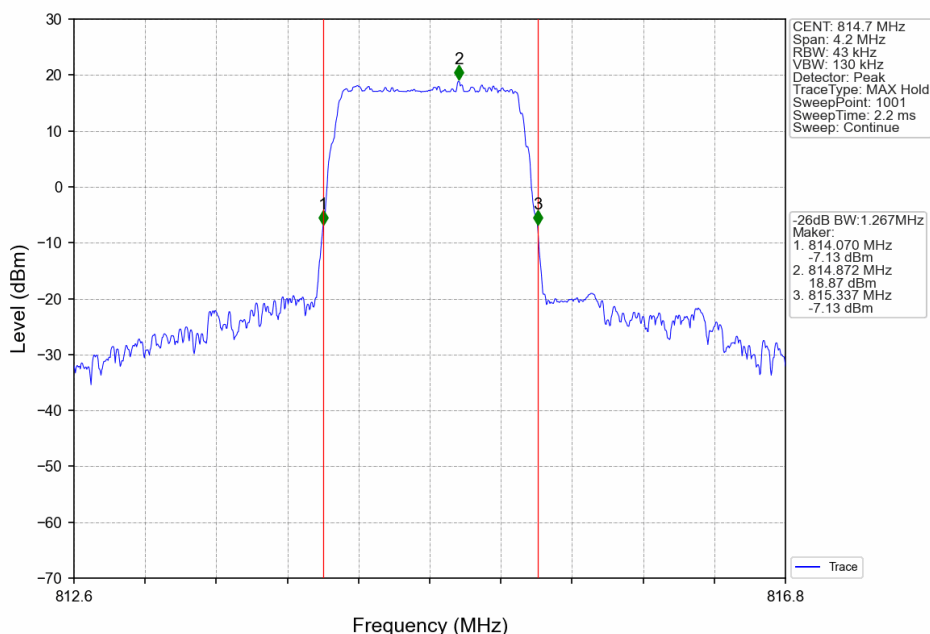
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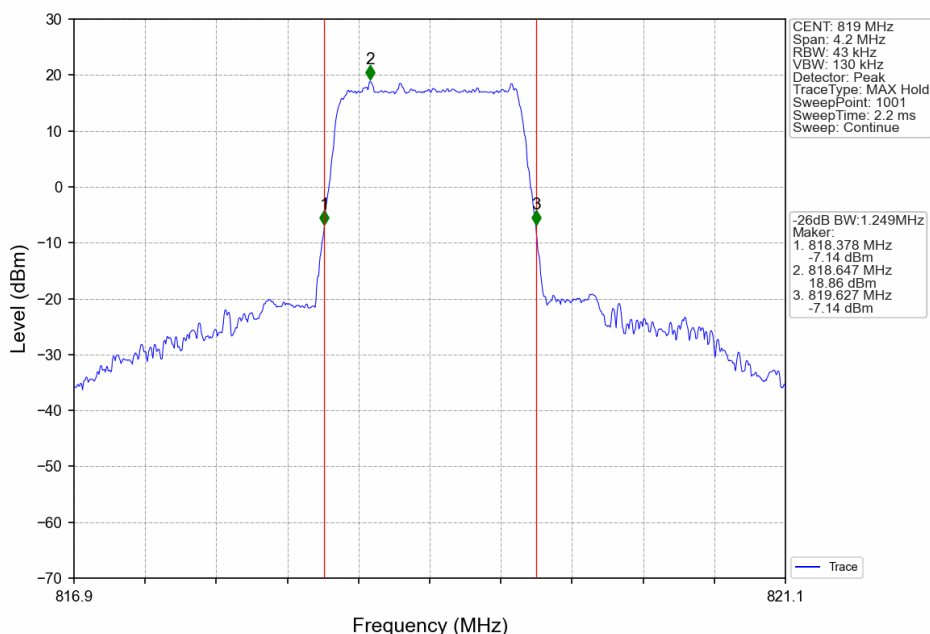
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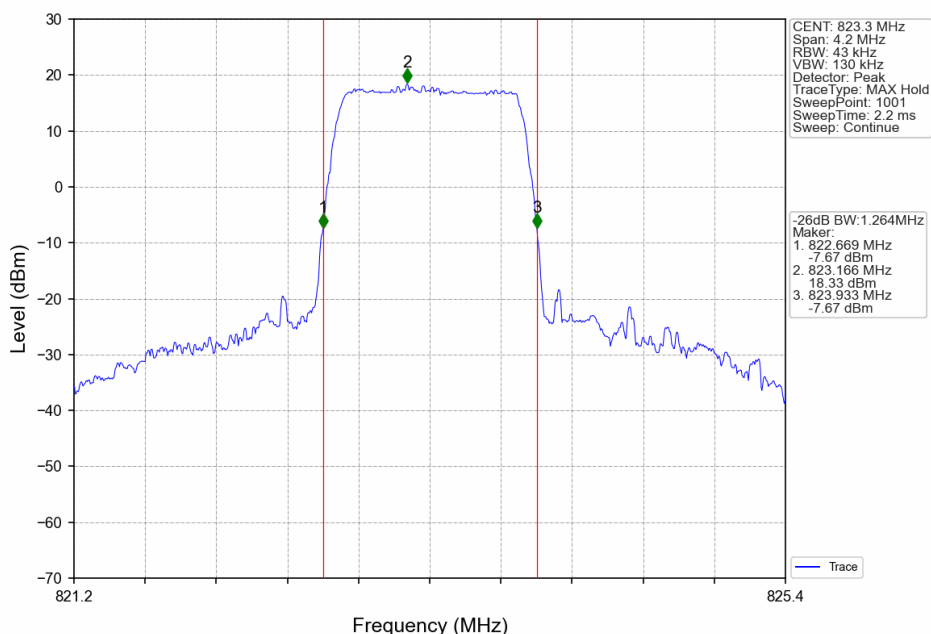
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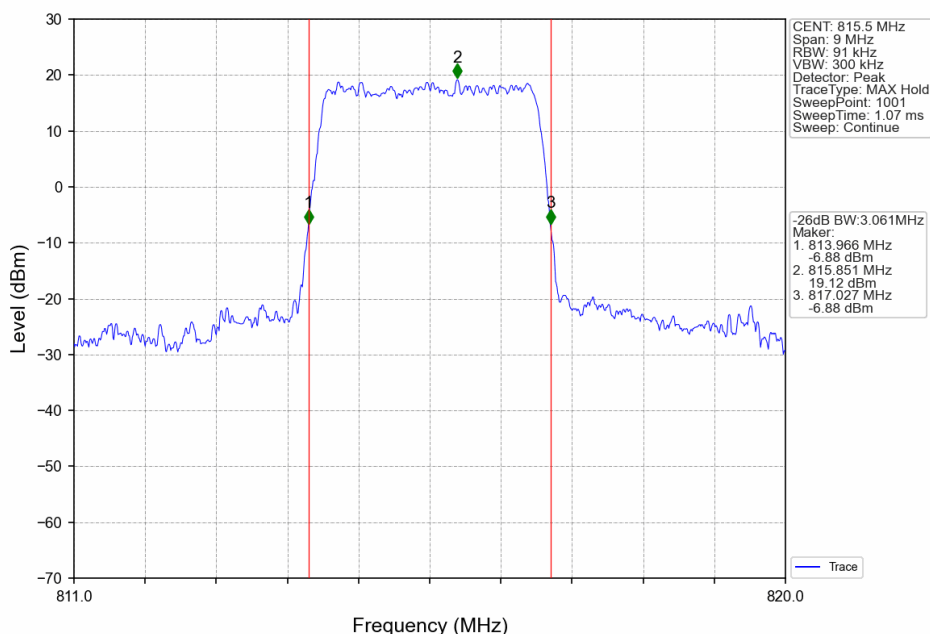
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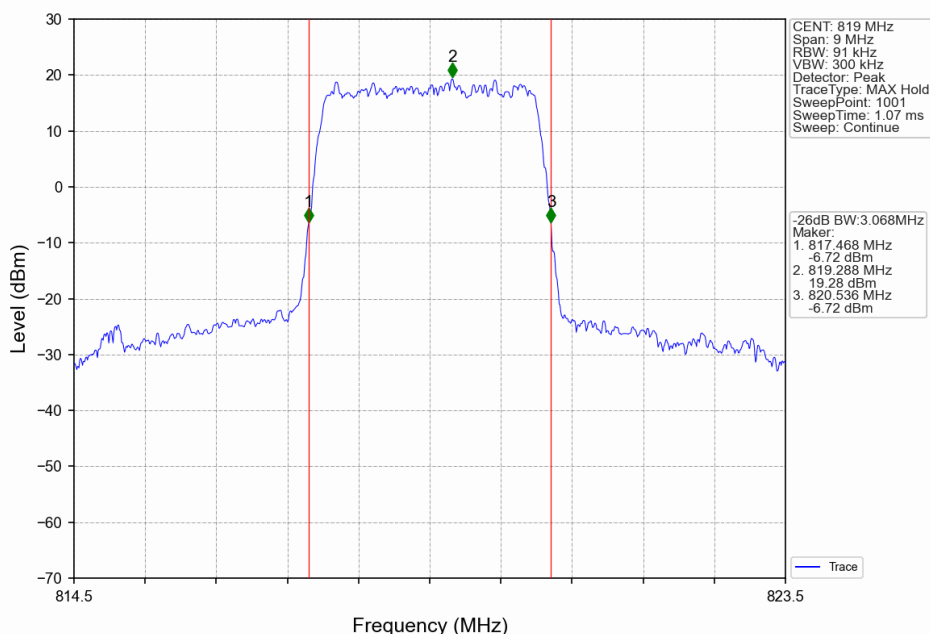
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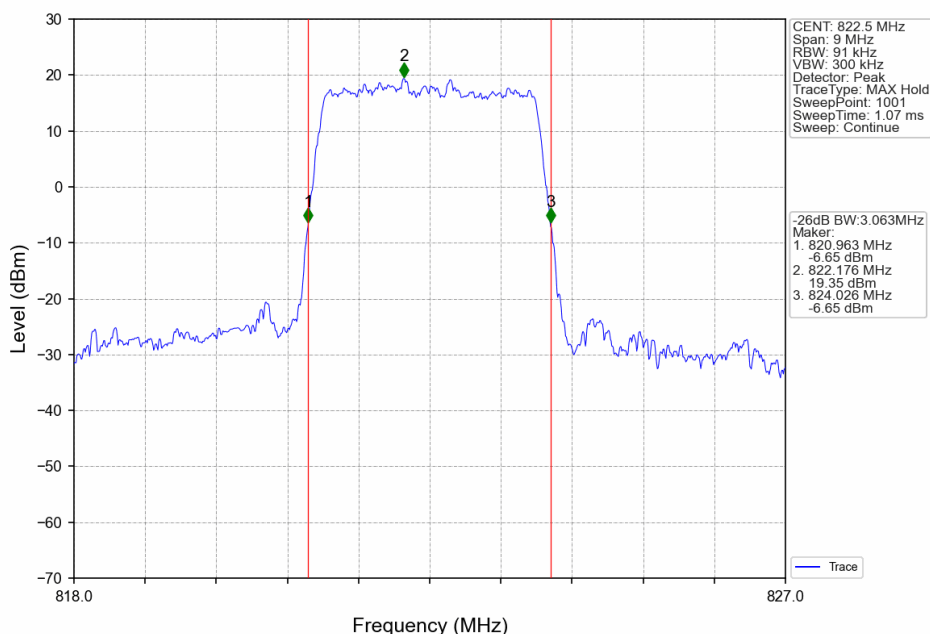
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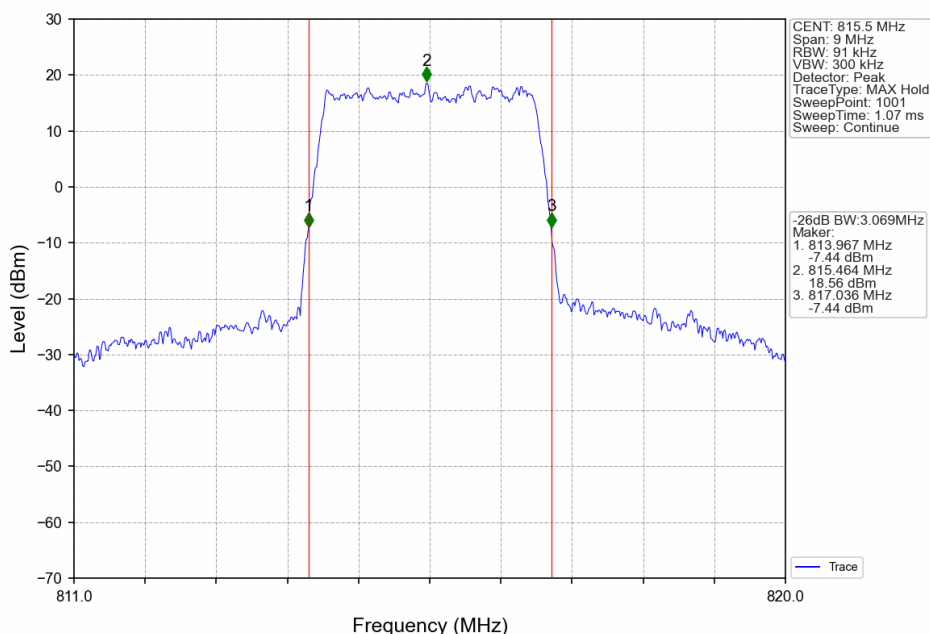
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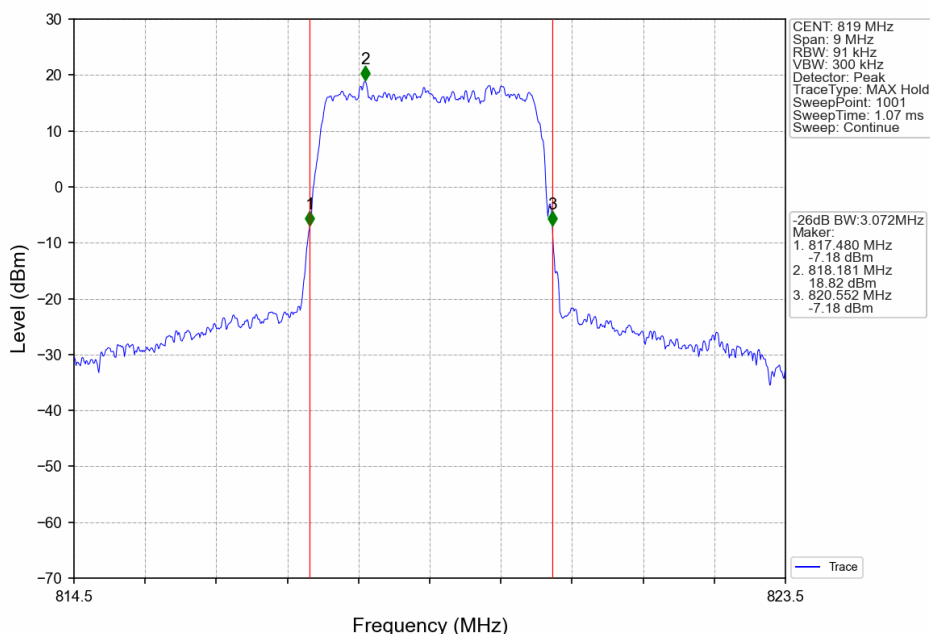
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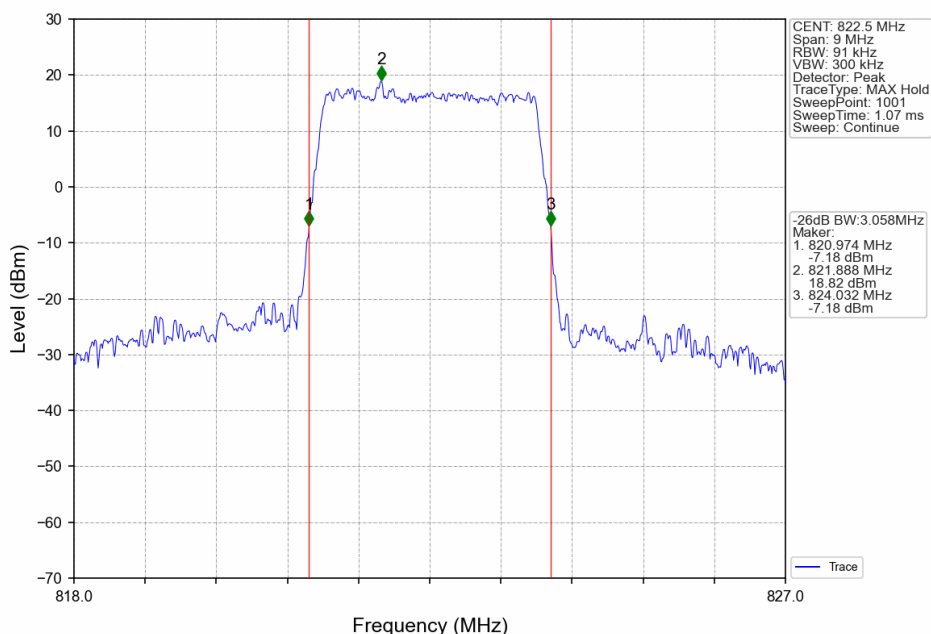
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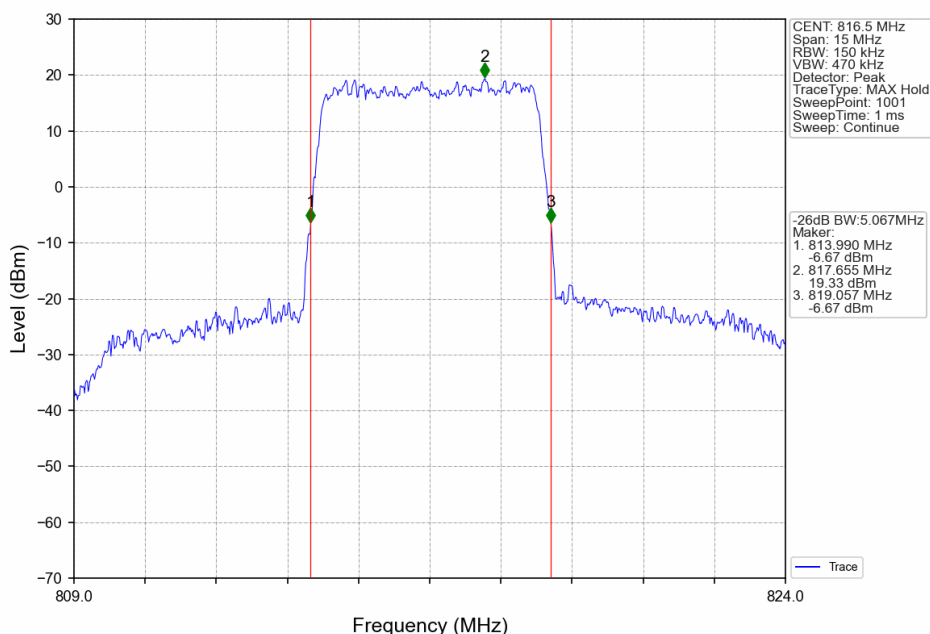
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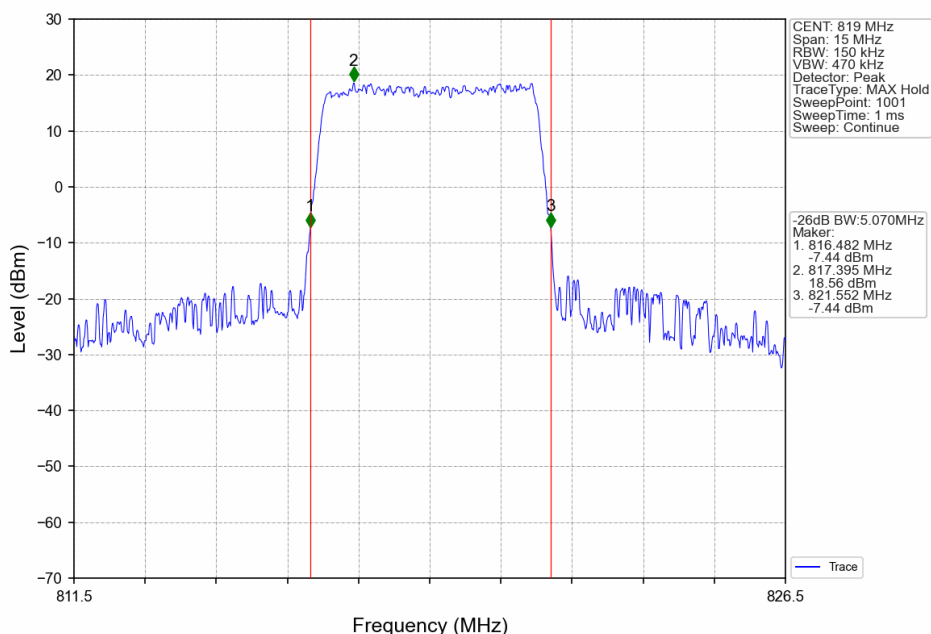
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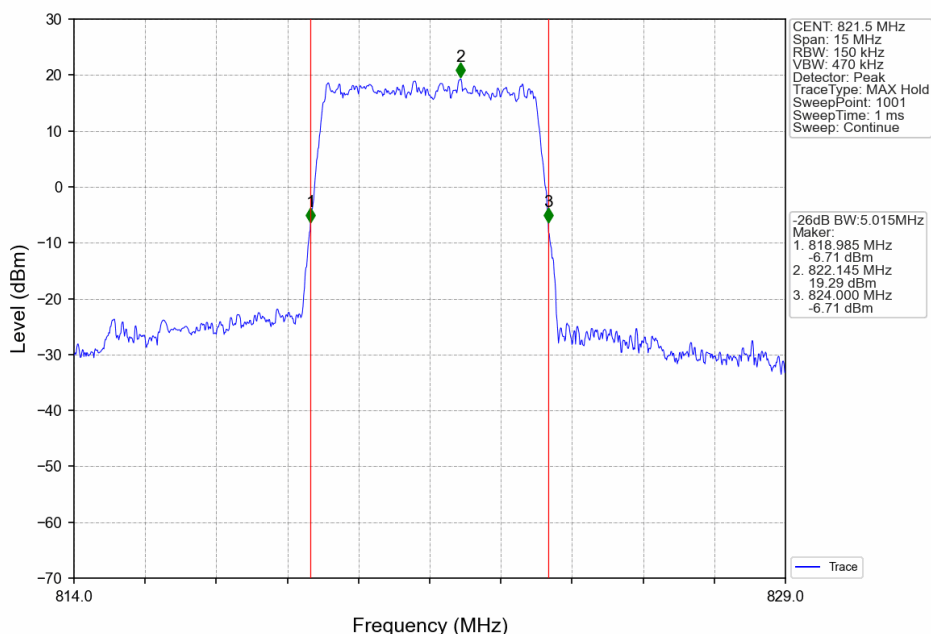
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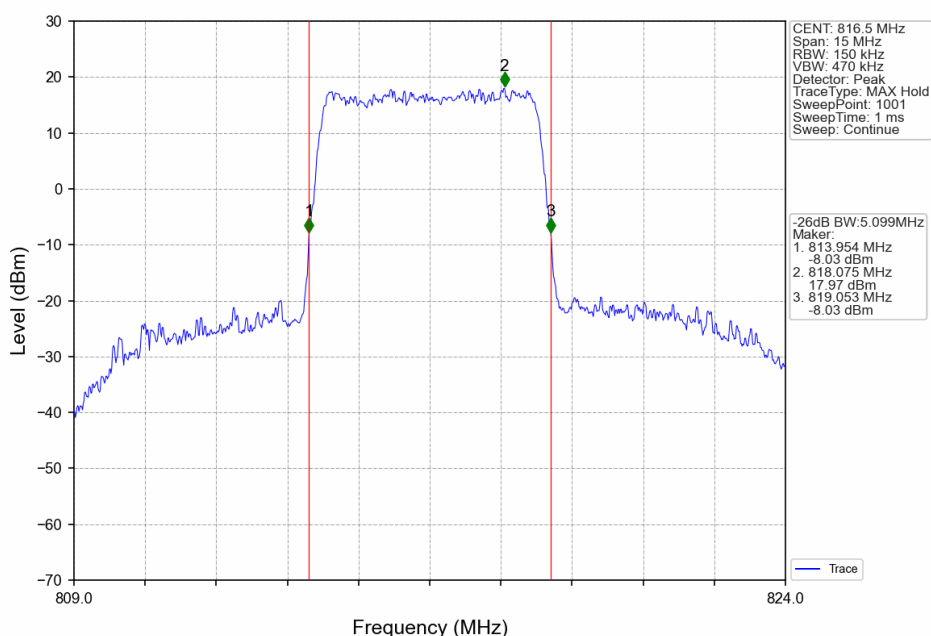
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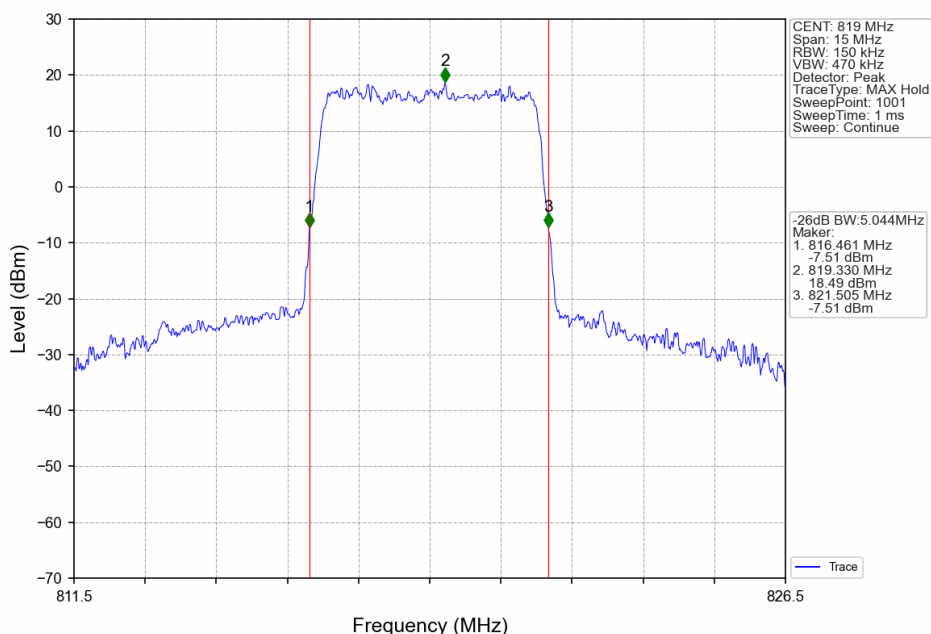
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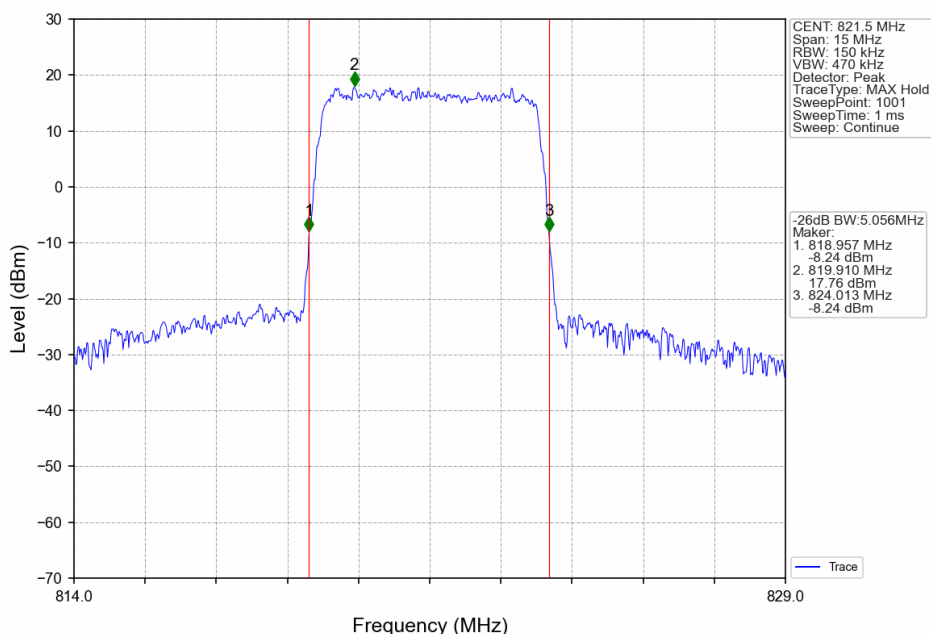
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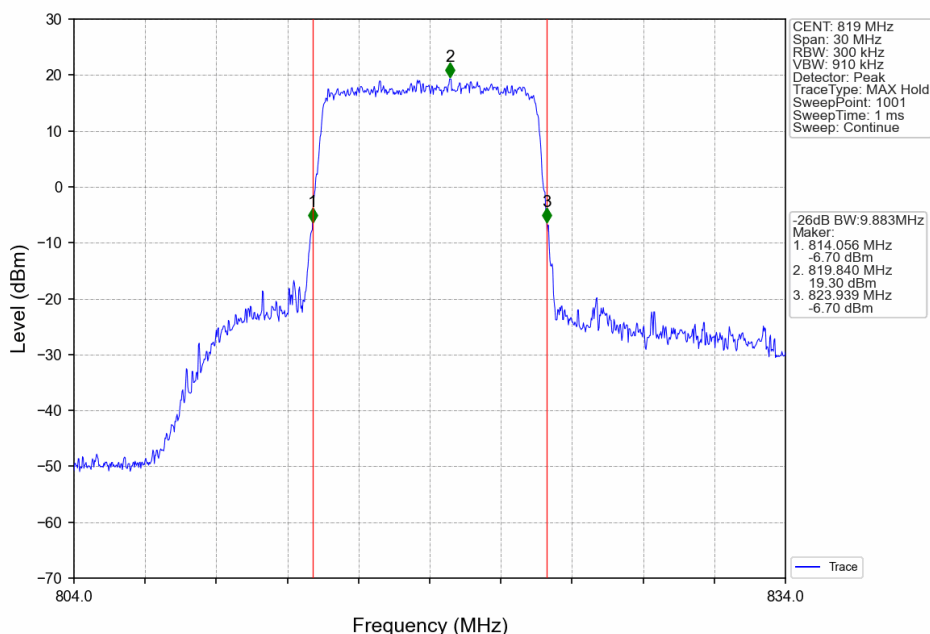
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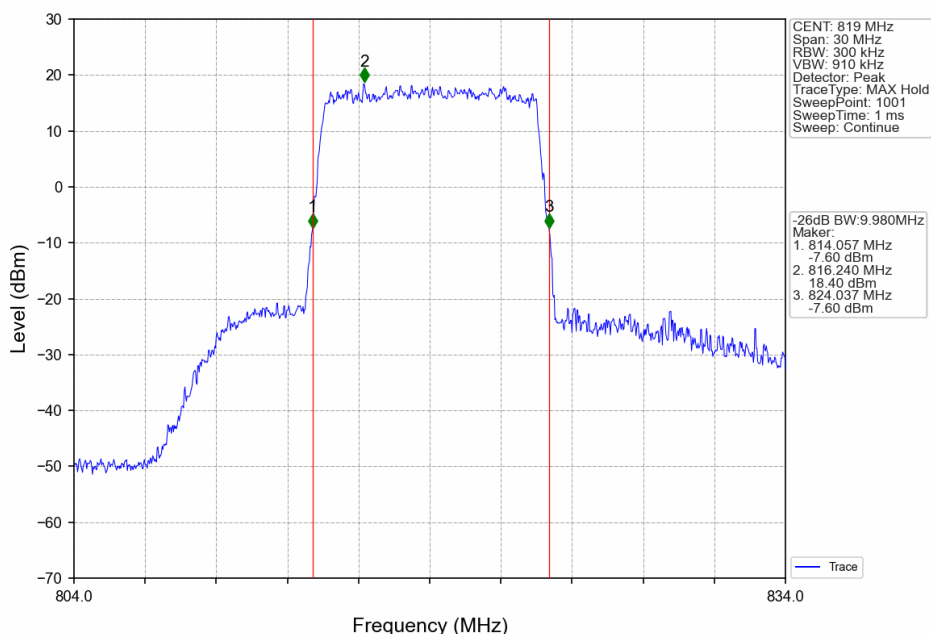
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Band26a_10MHz_16QAM_MCH_819MHz_RB_50_0_NTNV



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4. Peak-Average Ratio

4.1 B26a_1.4MHz

4.1.1 Test Result

Band: 26a / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	814.7	6	0	5.35	<=13	Pass
	819	6	0	5.52	<=13	Pass
	823.3	6	0	5.33	<=13	Pass
16QAM	814.7	6	0	6.20	<=13	Pass
	819	6	0	6.37	<=13	Pass
	823.3	6	0	6.17	<=13	Pass



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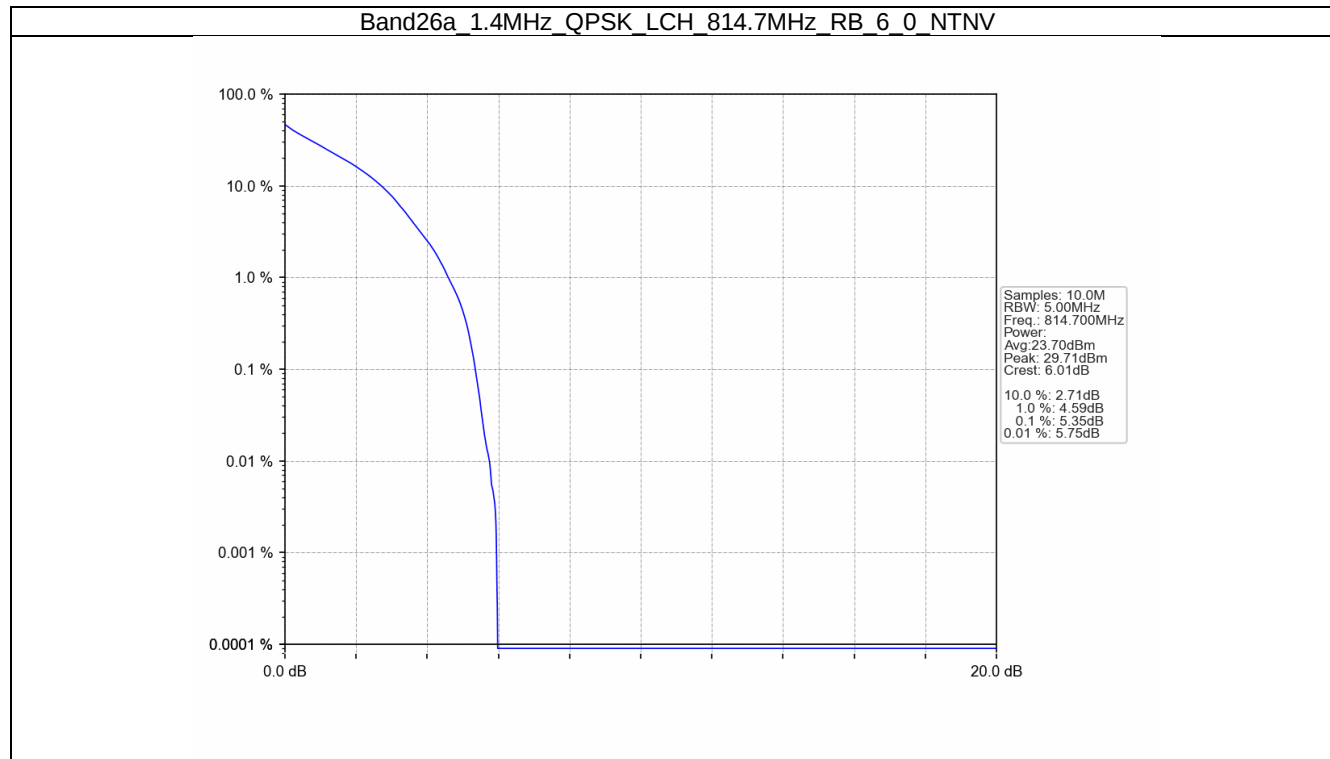
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4.1.2 Test Graph



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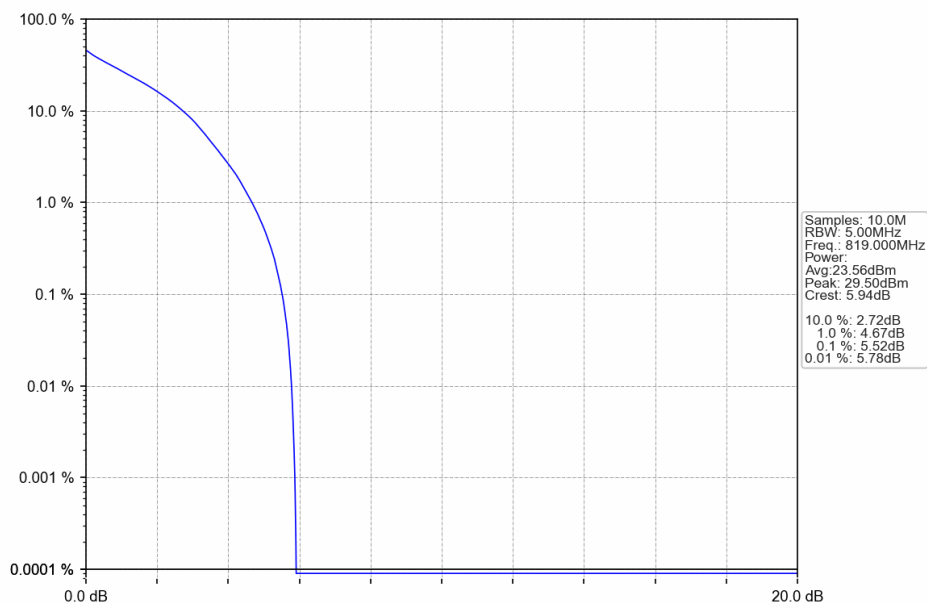
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Band26a_1.4MHz_QPSK_MCH_819MHz_RB_6_0_NTNV



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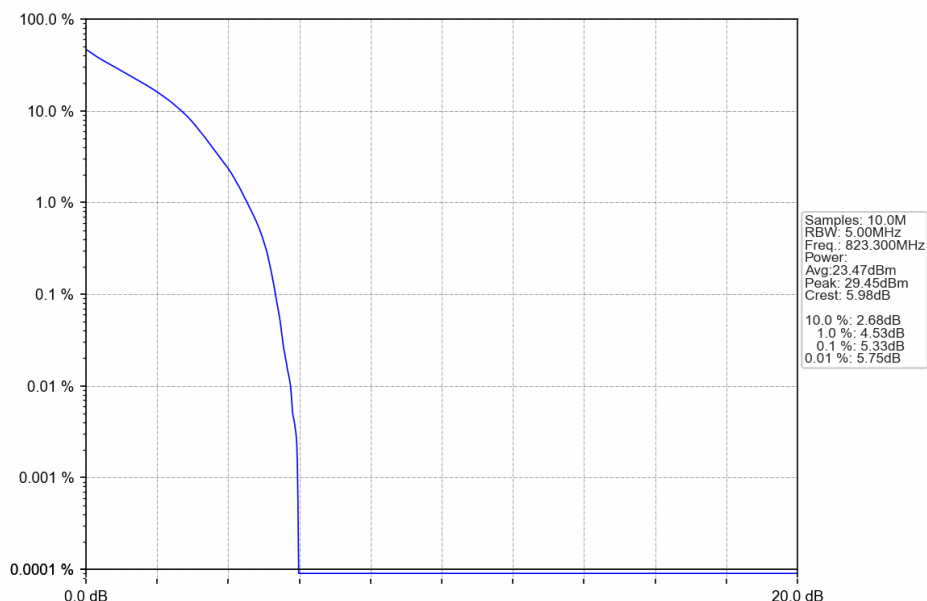
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Band26a 1.4MHz QPSK HCH 823.3MHz_RB_6_0 NTN



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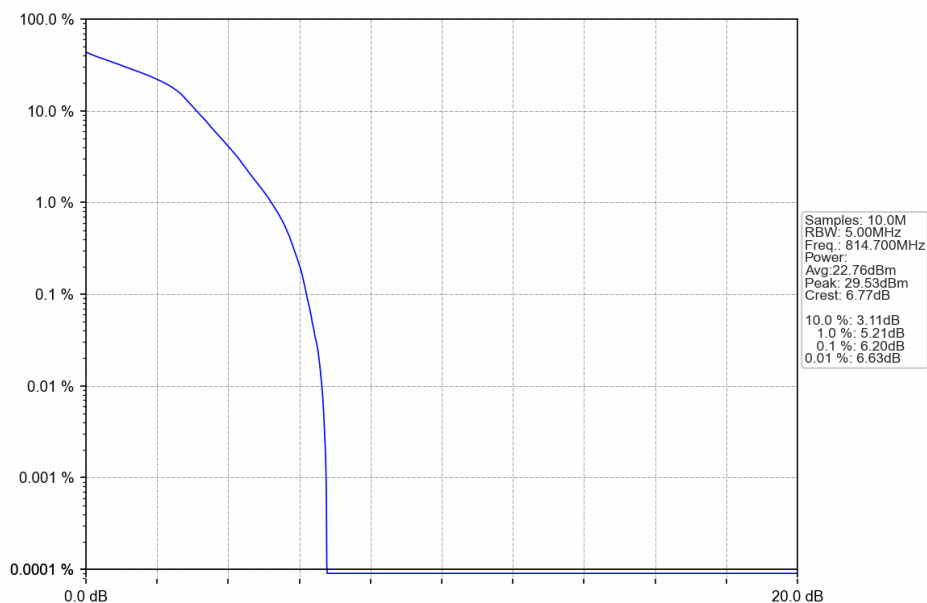
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Band26a_1.4MHz_16QAM_LCH_814.7MHz_RB_6_0_NTNV



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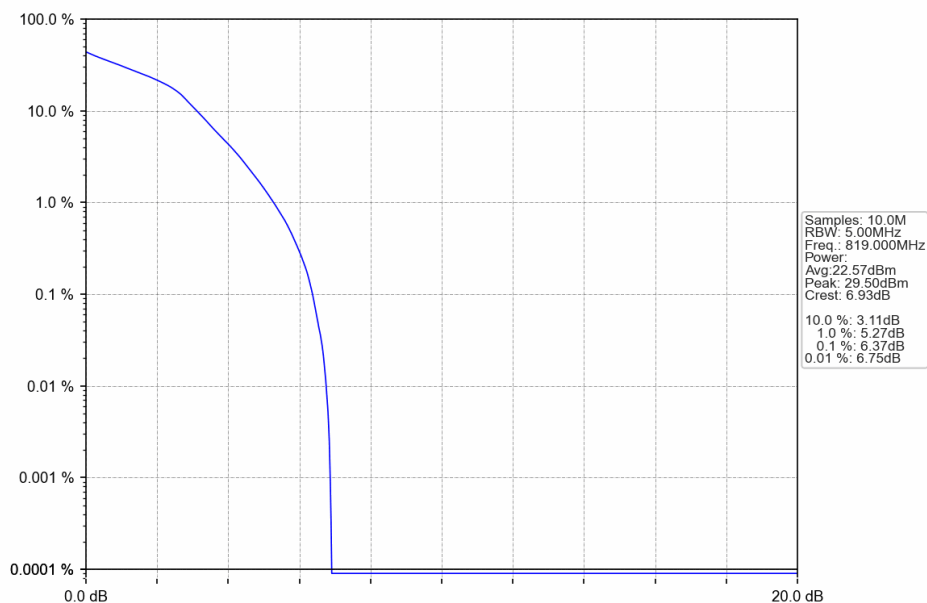
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Band26a 1.4MHz 16QAM MCH 819MHz RB 6 0 NTNV



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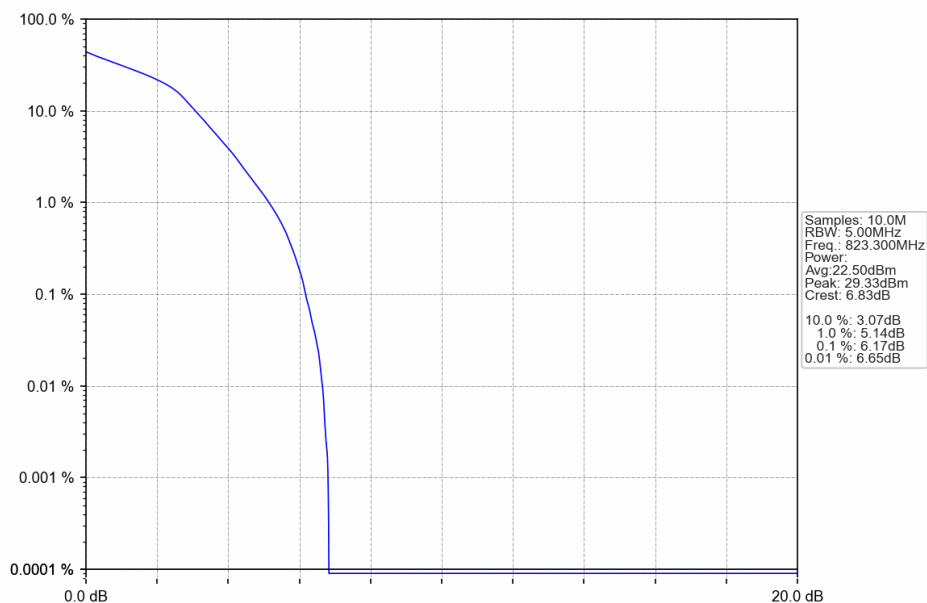
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4.2 B26a_3MHz

4.2.1 Test Result

Band: 26a / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	815.5	15	0	5.65	<=13	Pass
	819	15	0	5.60	<=13	Pass
	822.5	15	0	5.48	<=13	Pass
16QAM	815.5	15	0	6.43	<=13	Pass
	819	15	0	6.45	<=13	Pass
	822.5	15	0	6.31	<=13	Pass



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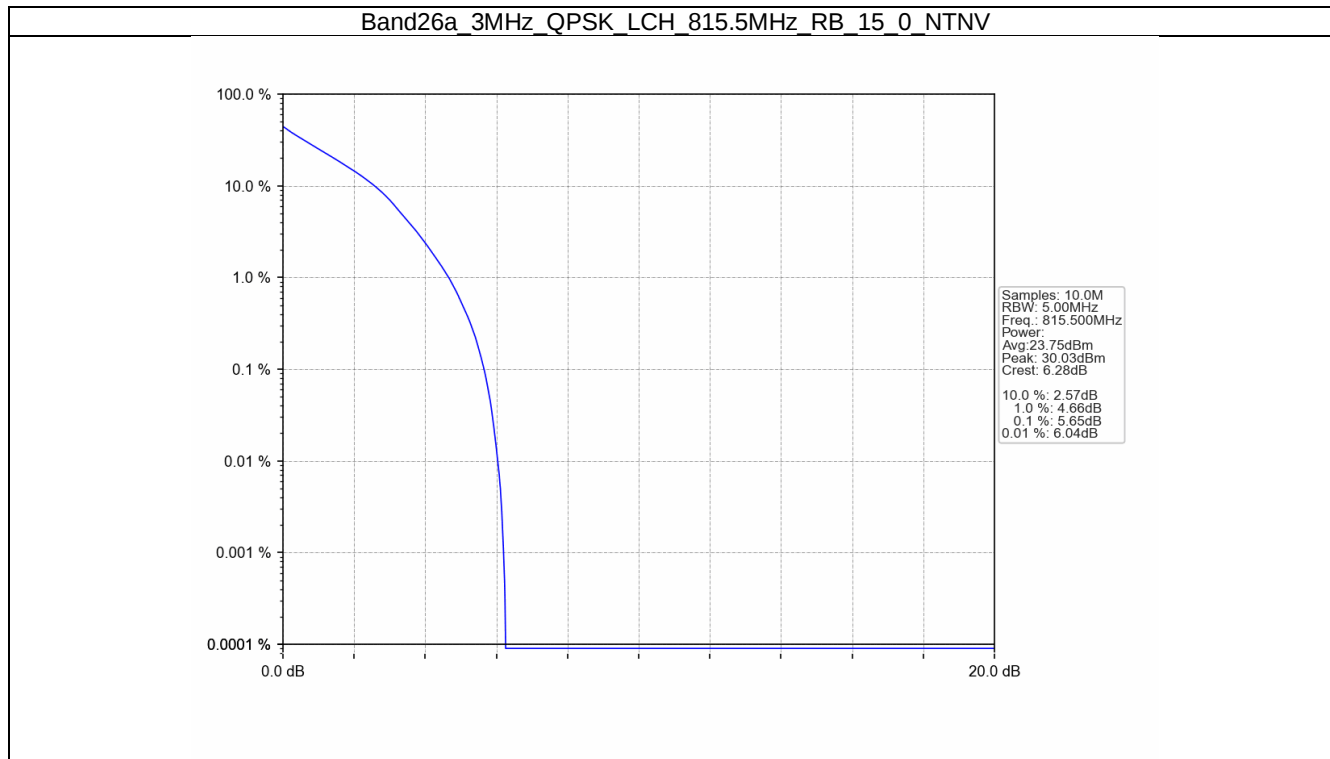
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4.2.2 Test Graph



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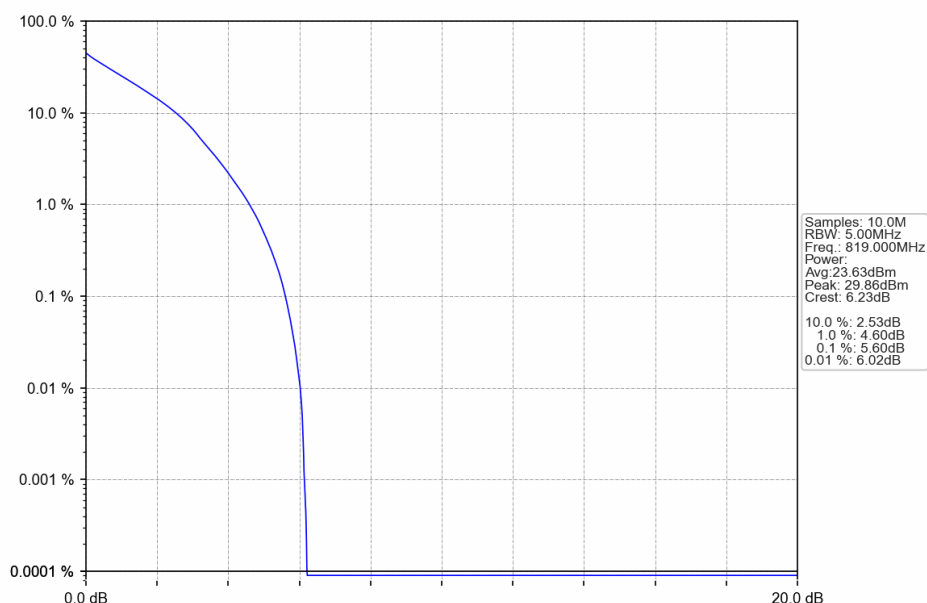
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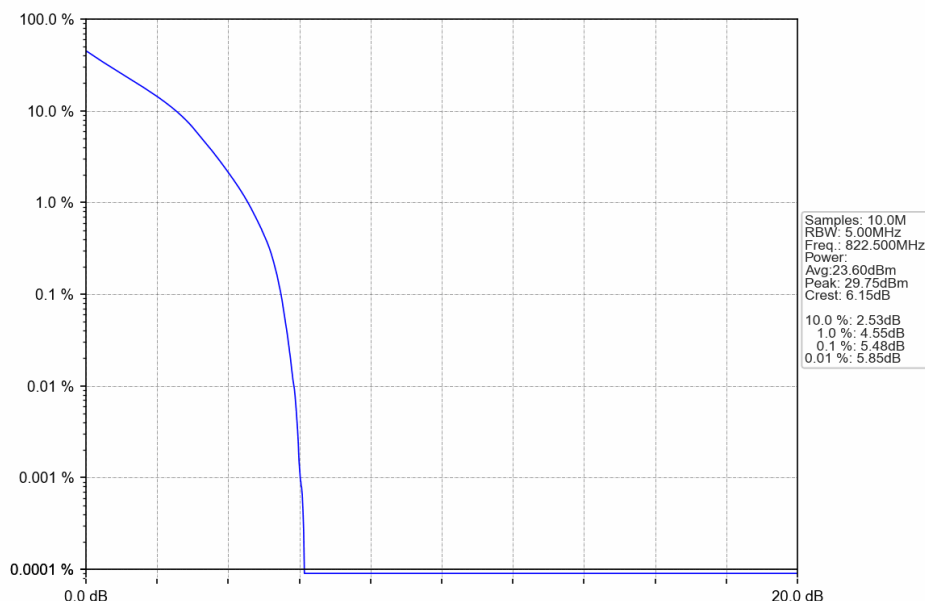
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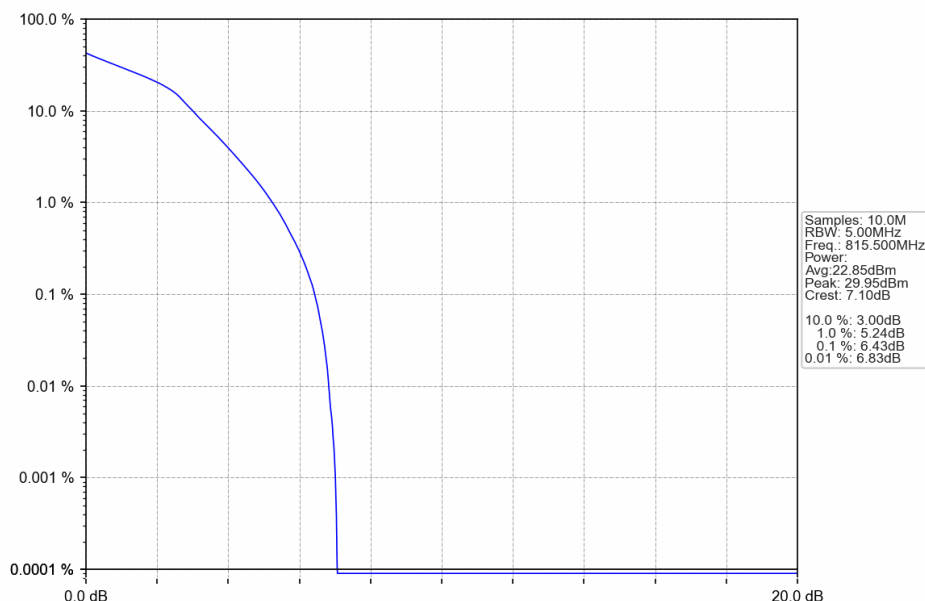
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Band26a_3MHz_16QAM_LCH_815.5MHz_RB_15_0_NTNV



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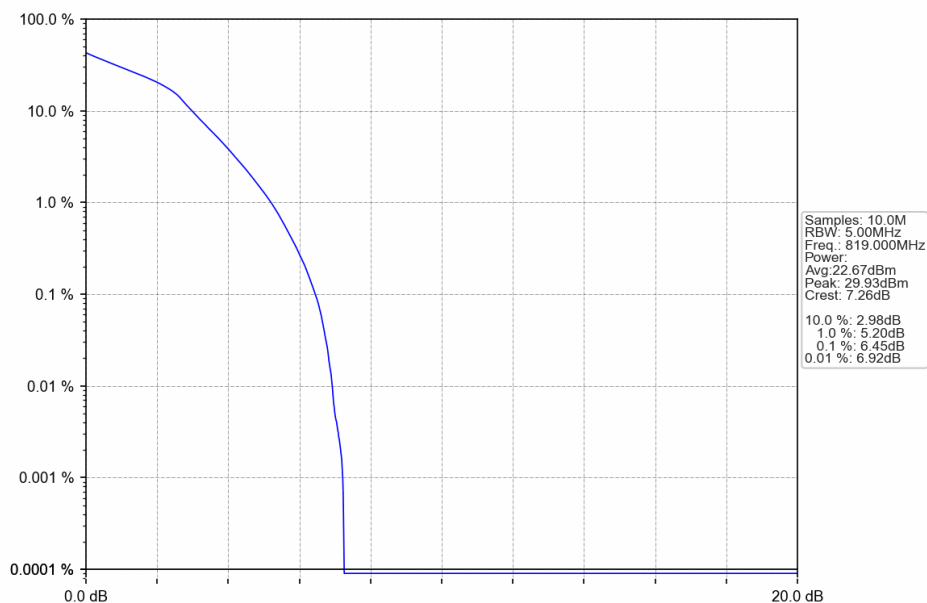
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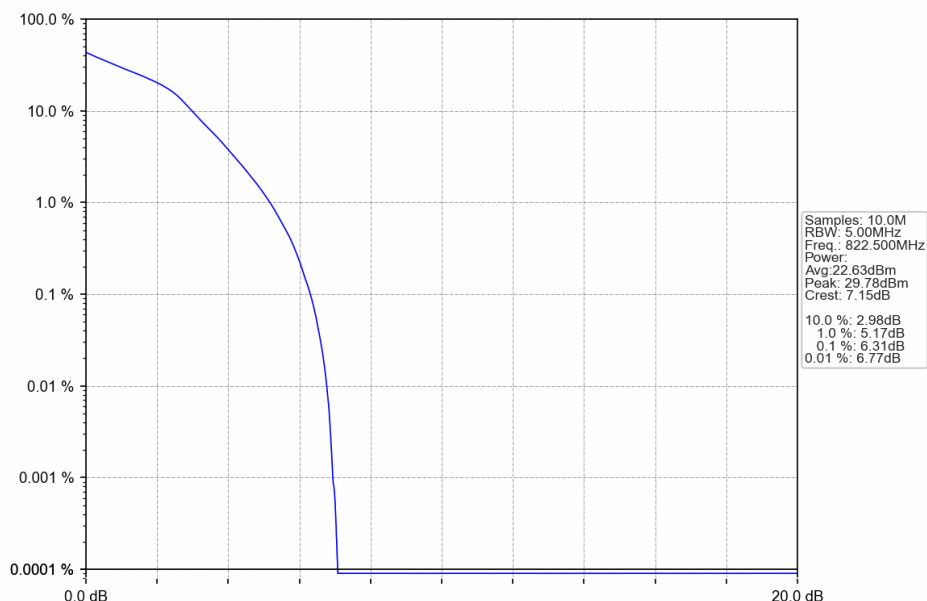
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4.3 B26a_5MHz

4.3.1 Test Result

Band: 26a / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	816.5	25	0	5.71	<=13	Pass
	819	25	0	5.66	<=13	Pass
	821.5	25	0	5.55	<=13	Pass
16QAM	816.5	25	0	6.45	<=13	Pass
	819	25	0	6.42	<=13	Pass
	821.5	25	0	6.36	<=13	Pass



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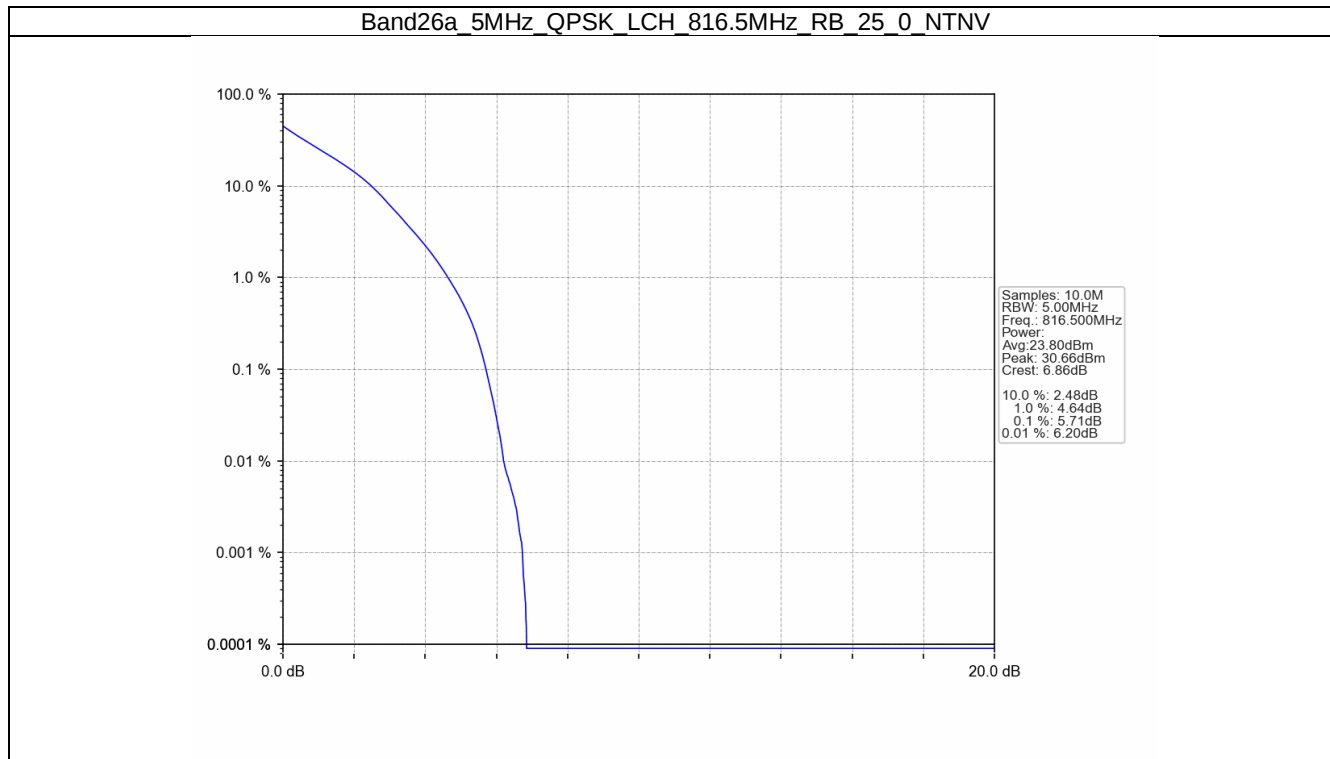
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4.3.2 Test Graph



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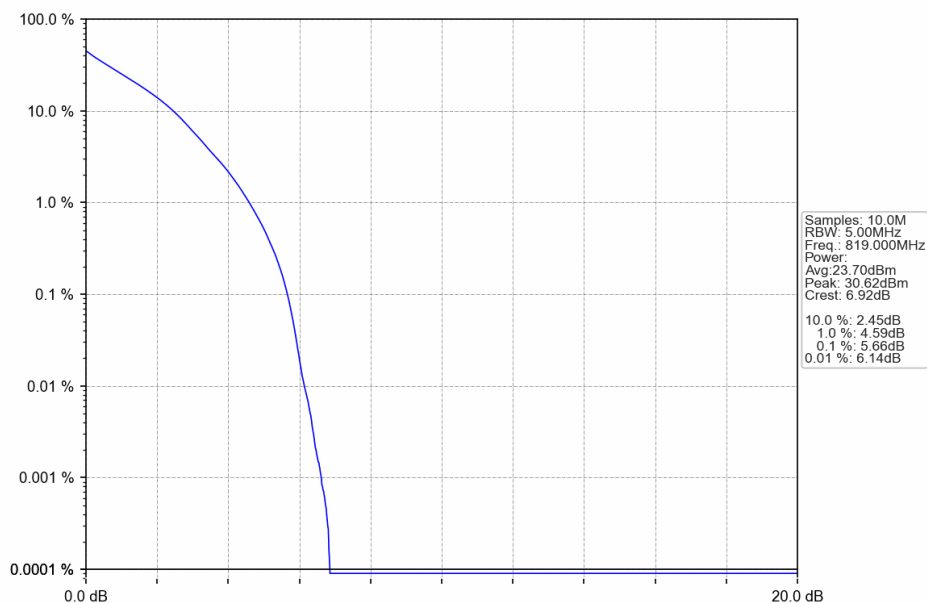
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Band26a_5MHz_QPSK_MCH_819MHz_RB_25_0_NTNV



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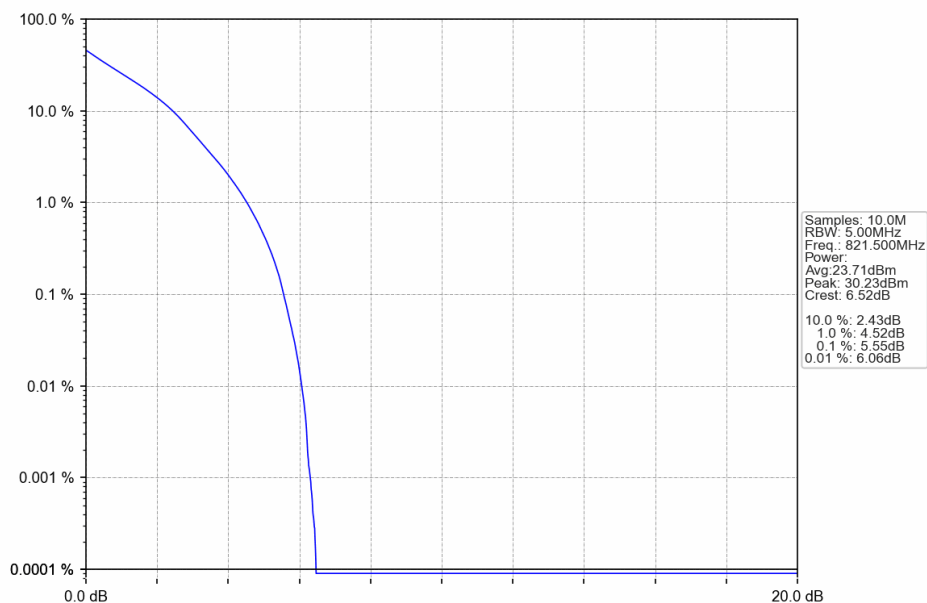
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Band26a_5MHz_QPSK_HCH_821.5MHz_RB_25_0_NTNV



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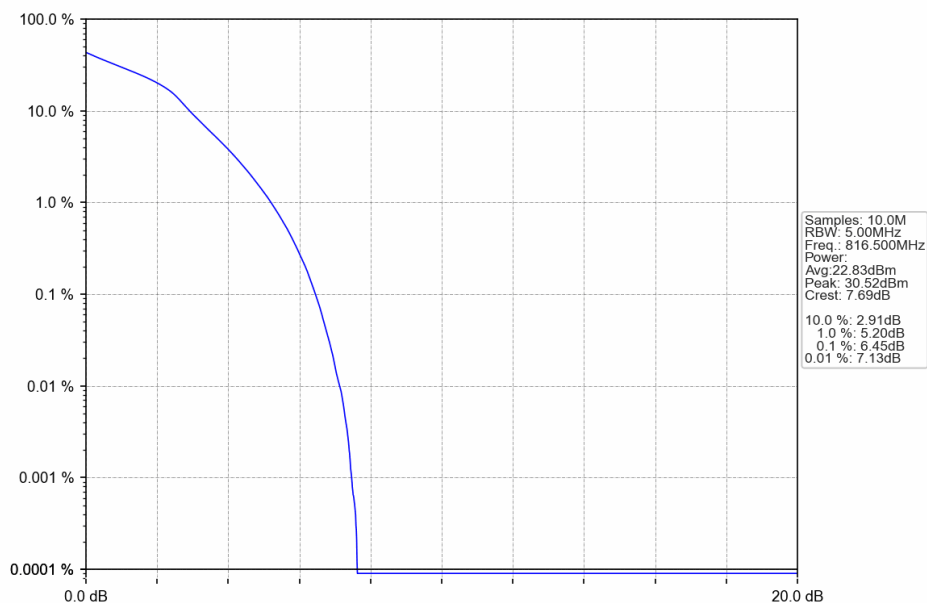
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Band26a_5MHz_16QAM_LCH_816.5MHz_RB_25_0_NTNV



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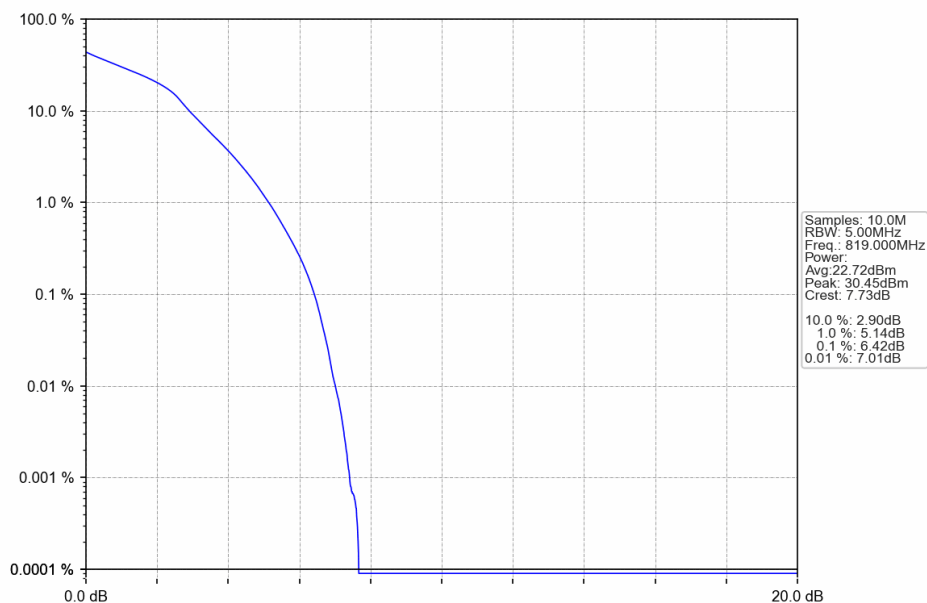
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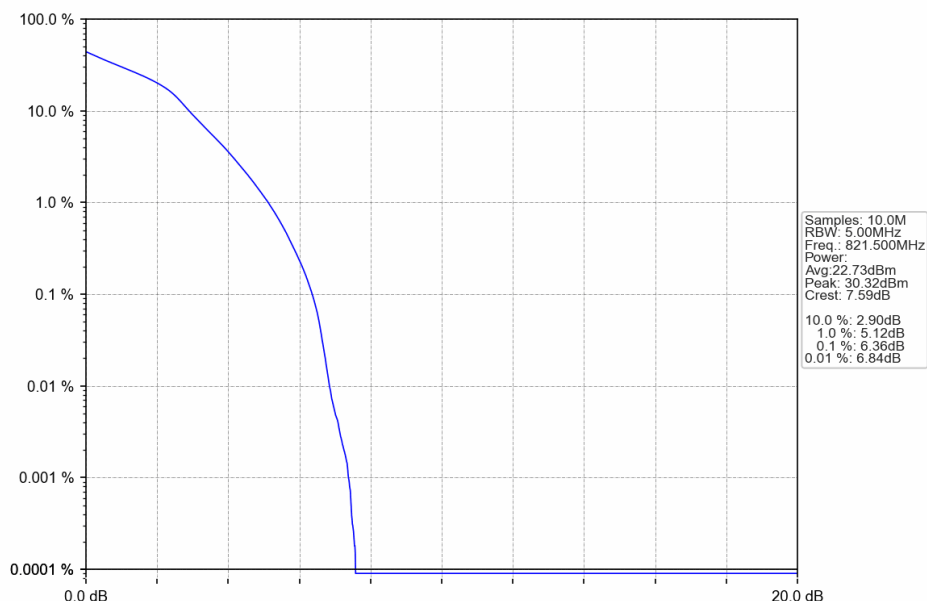
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4.4 B26a_10MHz

4.4.1 Test Result

Band: 26a / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	819	50	0	5.49	<=13	Pass
16QAM	819	50	0	6.32	<=13	Pass



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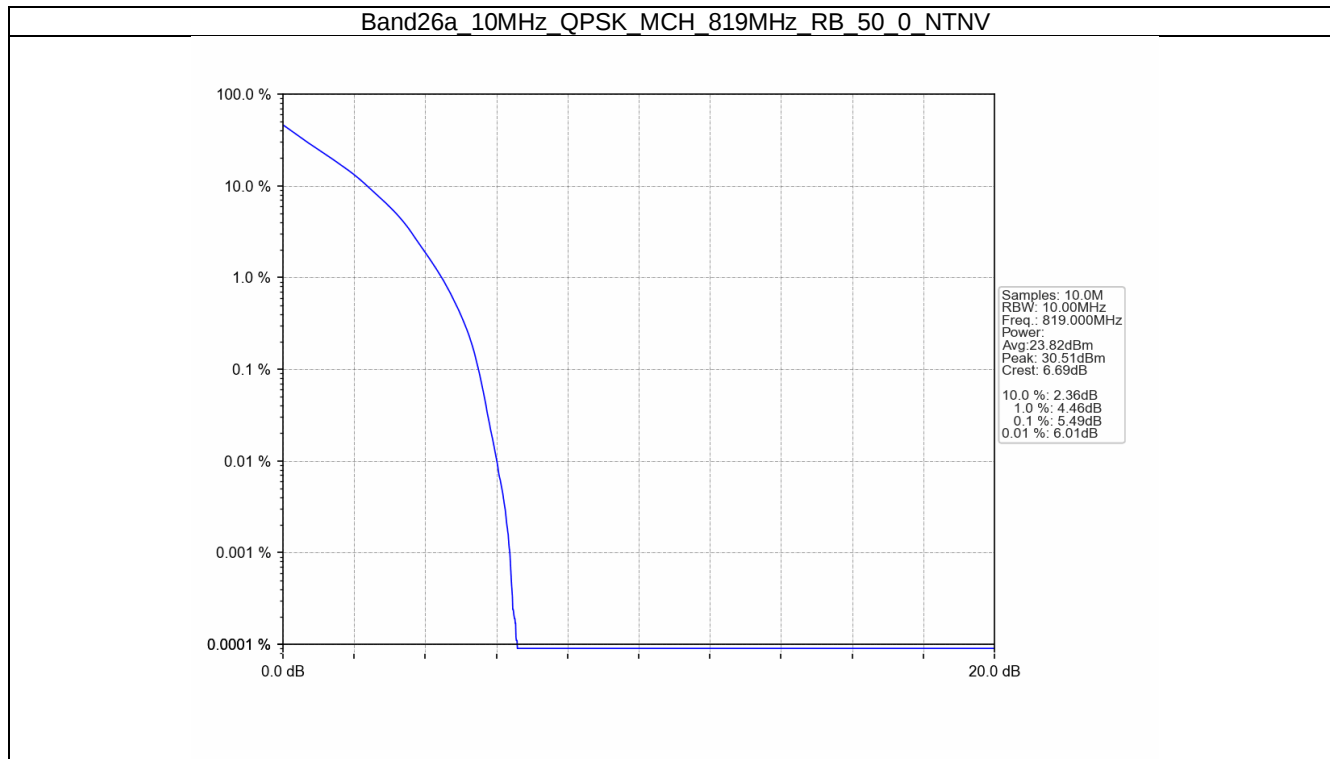
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4.4.2 Test Graph



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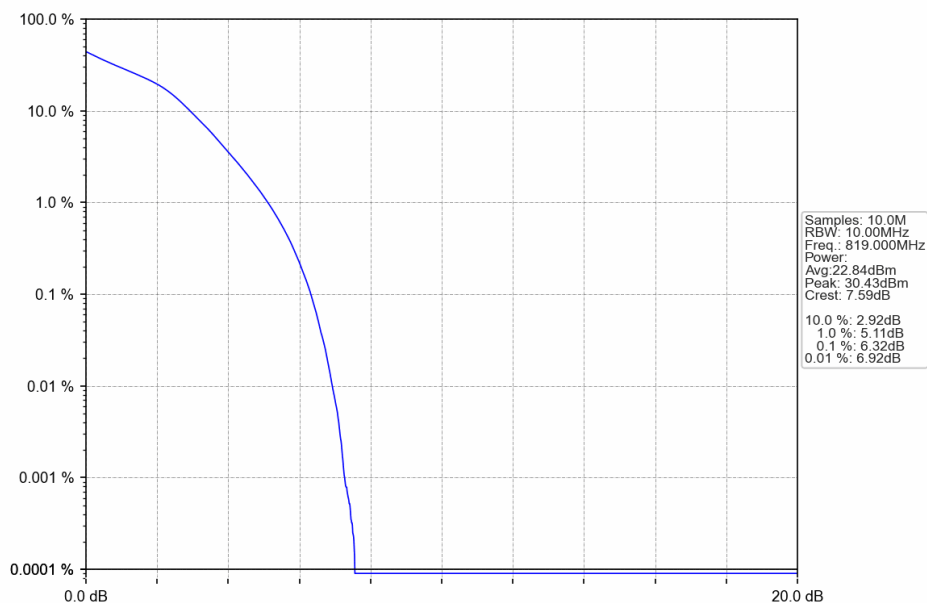
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5. Spurious Emission & Band Edge

5.1 B26a_1.4MHz

5.1.1 Test Result

Band: 26a / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	814.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	819	1	0	Refer To Test Graph	Pass
	823.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass



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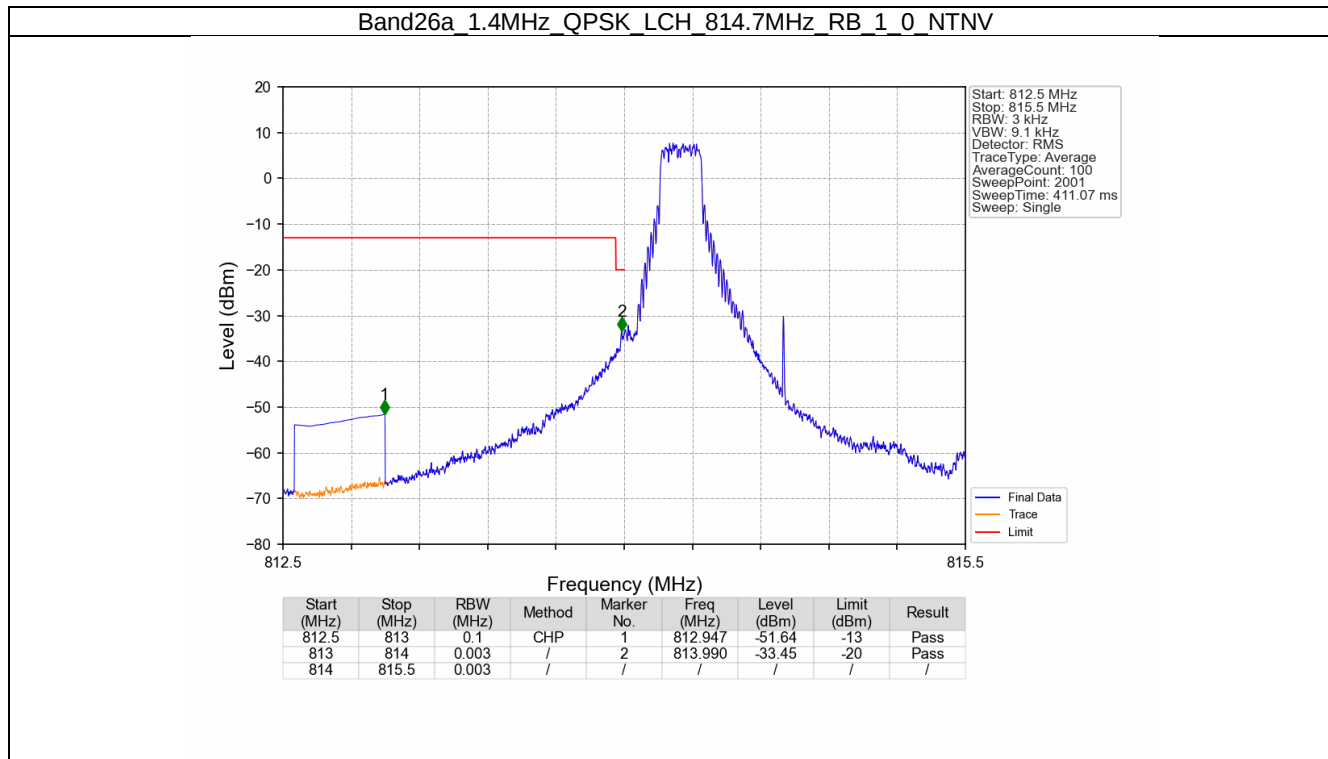
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5.1.2 Test Graph



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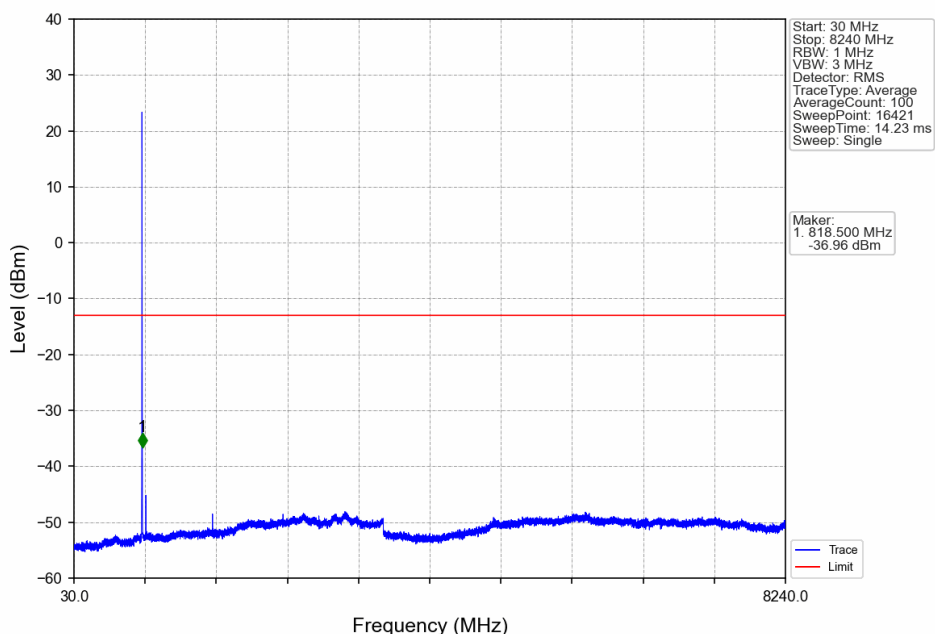
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Band26a_1.4MHz_QPSK_LCH_814.7MHz_RB_1_0_NTNV



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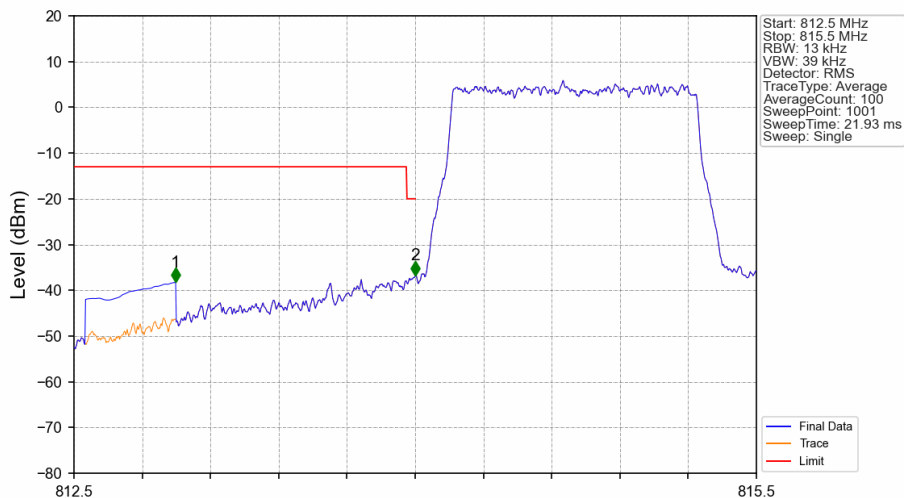
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Band26a 1.4MHz QPSK LCH 814.7MHz RB 6 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
812.5	813	0.1	CHP	1	812.947	-38.25	-13	Pass
813	814	0.013	/	2	814.000	-36.71	-20	Pass
814	815.5	0.013	/	/	/	/	/	/



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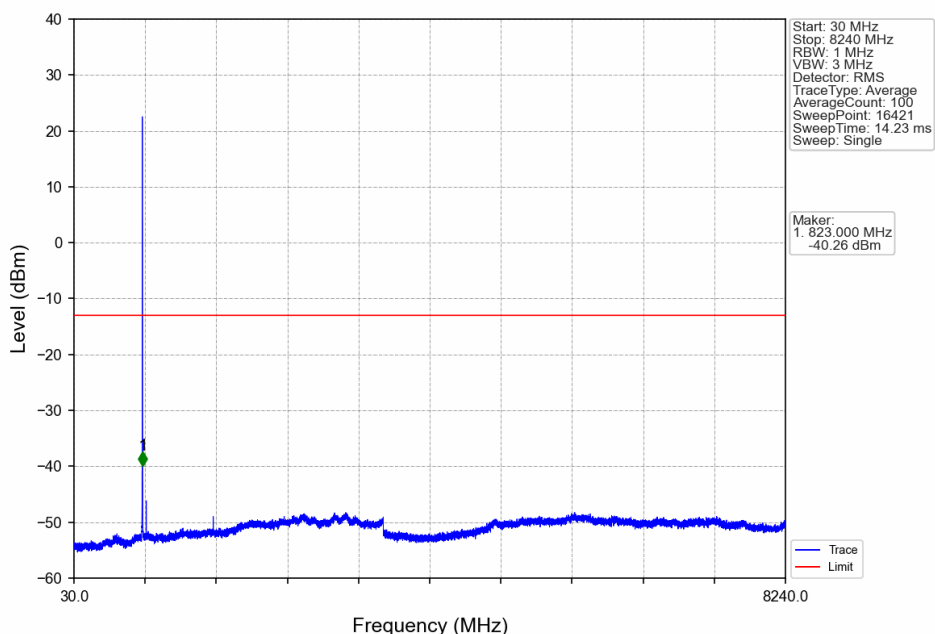
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Band26a_1.4MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



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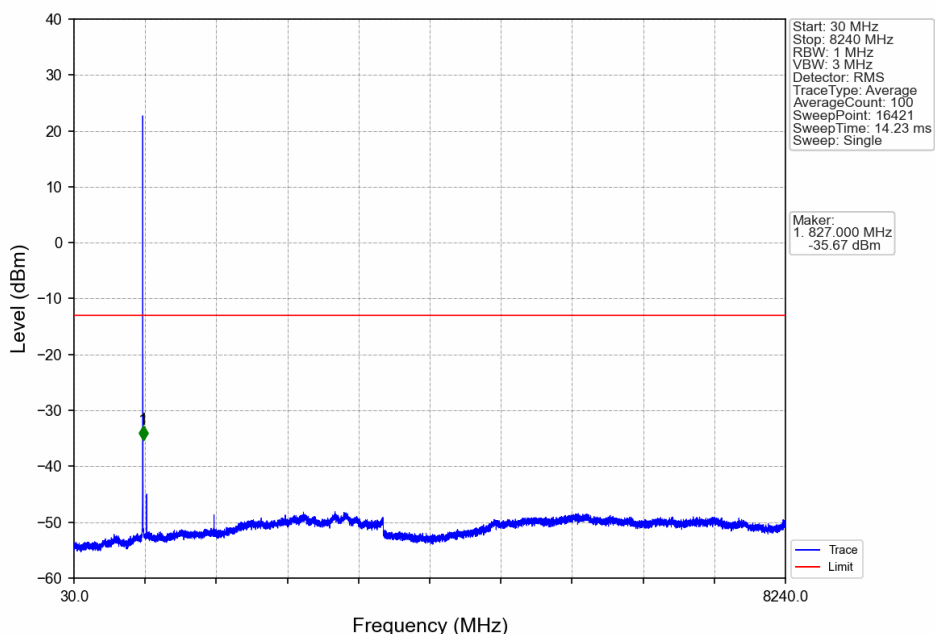
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Band26a 1.4MHz QPSK HCH 823.3MHz_RB_1_0 NTN



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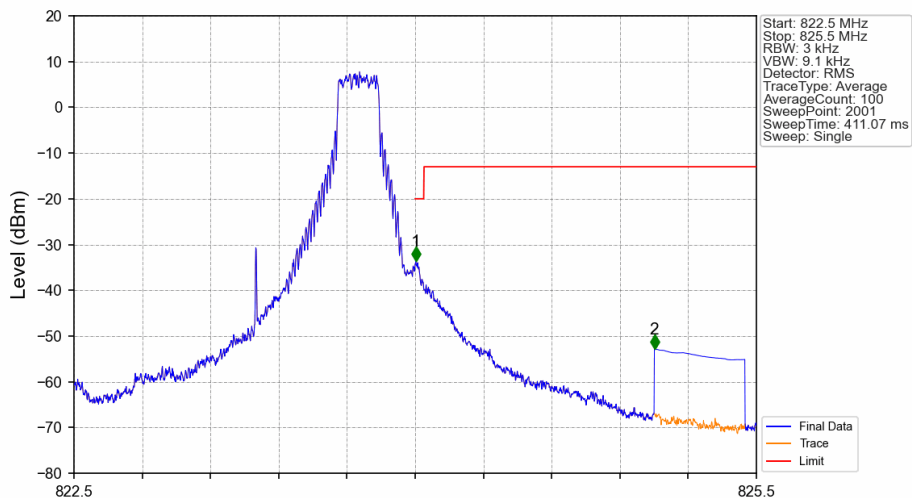
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Band26a 1.4MHz QPSK HCH 823.3MHz_RB_1_5 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	824	0.003	/	/	/	/	/	/
824	825	0.003	/	1	824.003	-33.64	-20	Pass
825	825.5	0.1	CHP	2	825.052	-52.85	-13	Pass



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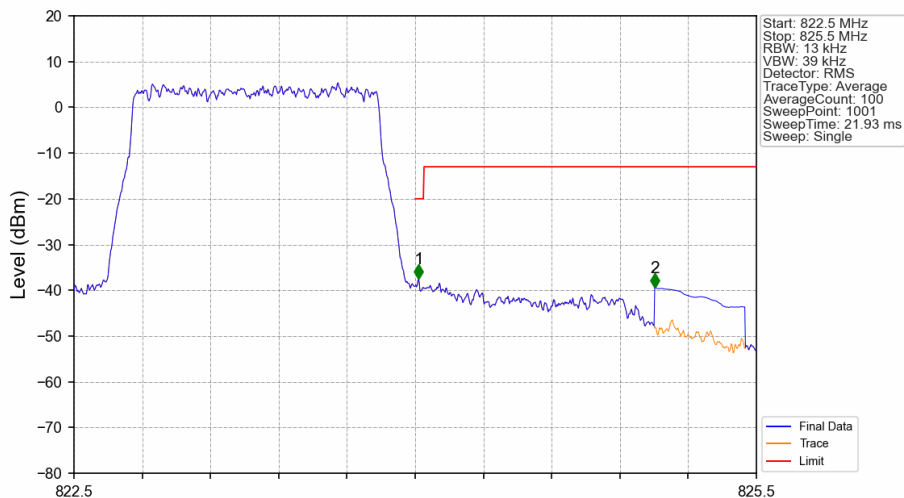
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Band26a 1.4MHz QPSK HCH 823.3MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	824	0.013	/	/	/	/	/	/
824	825	0.013	/	1	824.015	-37.52	-20	Pass
825	825.5	0.1	CHP	2	825.053	-39.47	-13	Pass



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5.2 B26a_3MHz

5.2.1 Test Result

Band: 26a / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	815.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	819	1	0	Refer To Test Graph	Pass
	822.5	1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass



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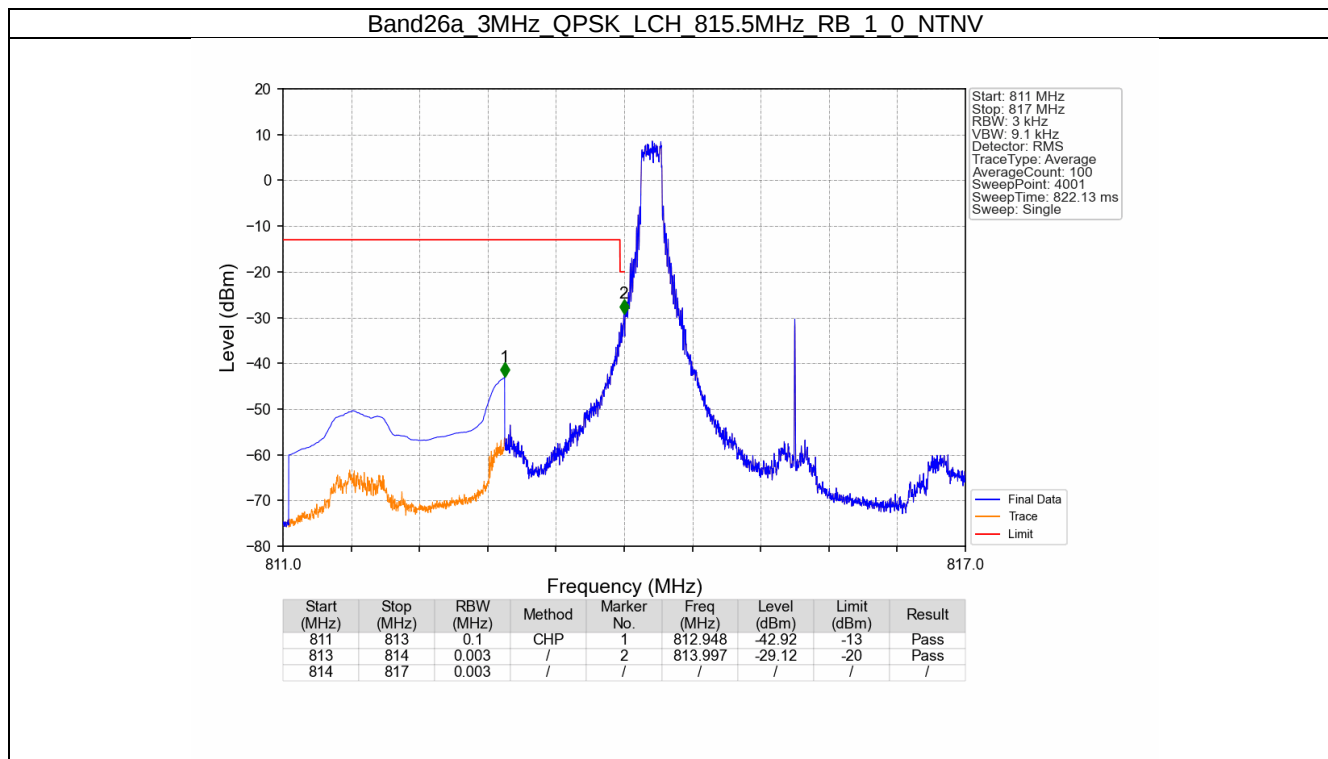
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5.2.2 Test Graph



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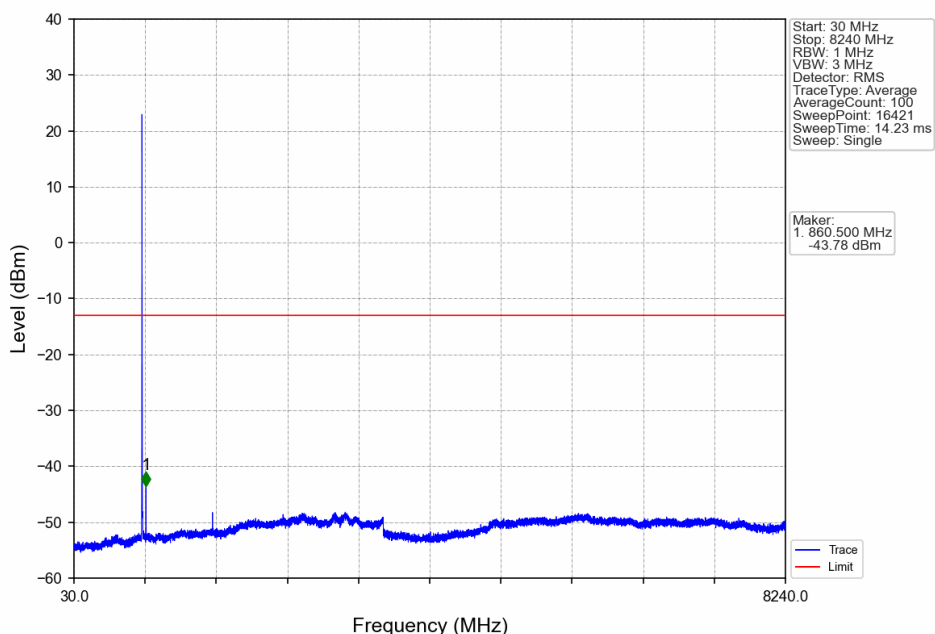
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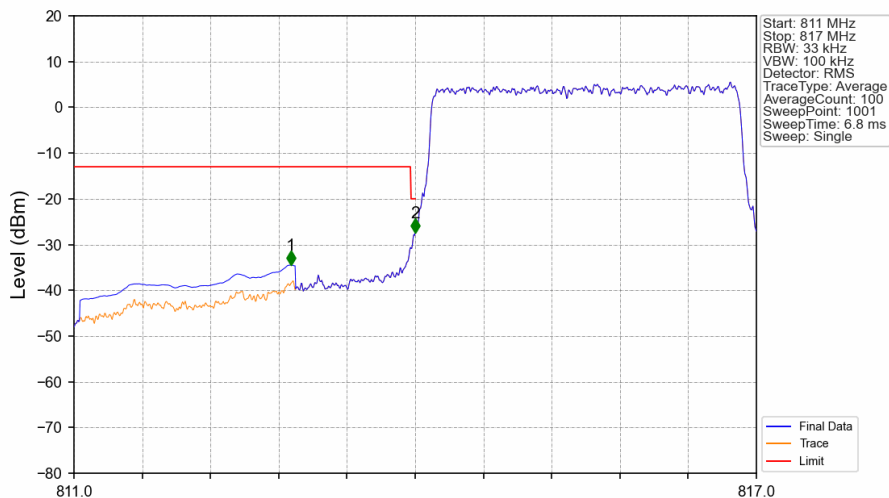
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
811	813	0.1	CHP	1	812.908	-34.48	-13	Pass
813	814	0.033	/	2	814.000	-27.45	-20	Pass
814	817	0.033	/	/	/	/	/	/



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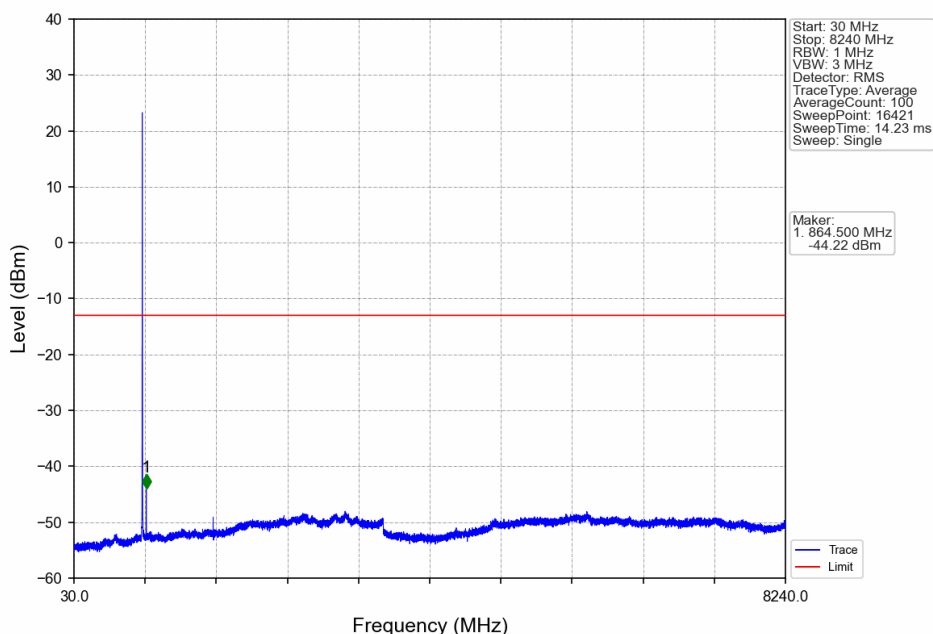
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Band26a_3MHz_QPSK_MCH_819MHz_RB_1_0_NTNV



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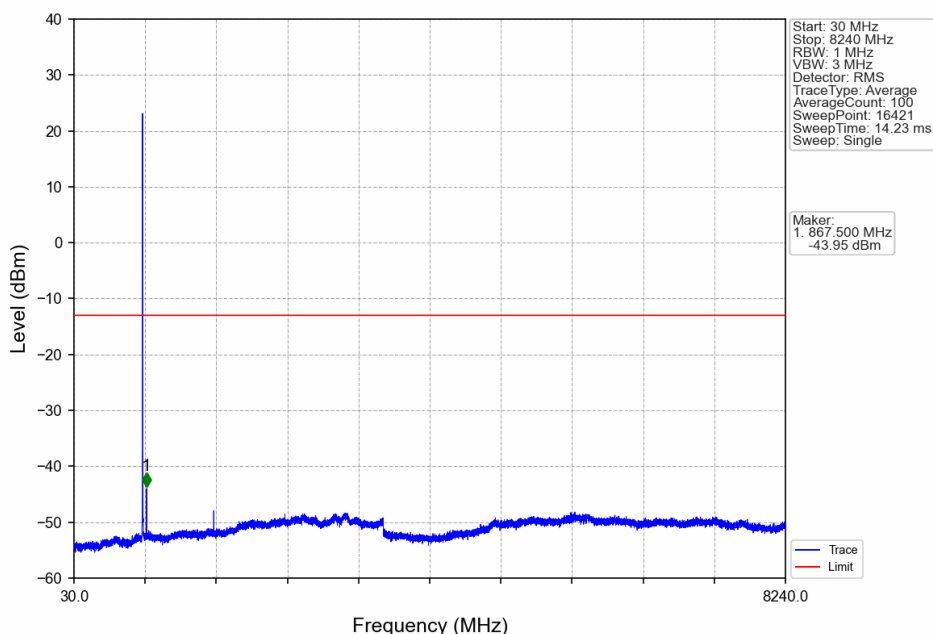
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Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_0_NTNV



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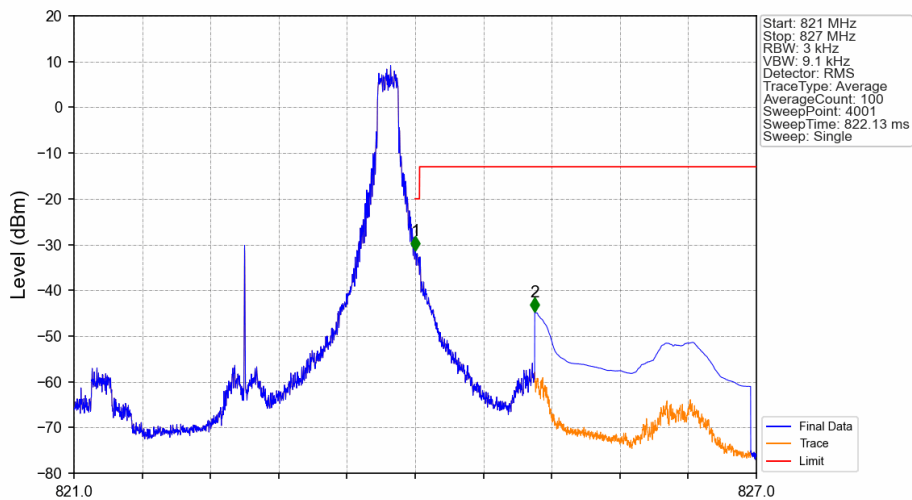
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Band26a_3MHz_QPSK_HCH_822.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.003	/	/	/	/	/	/
824	825	0.003	/	1	824.003	-31.37	-20	Pass
825	827	0.1	CHP	2	825.052	-44.77	-13	Pass



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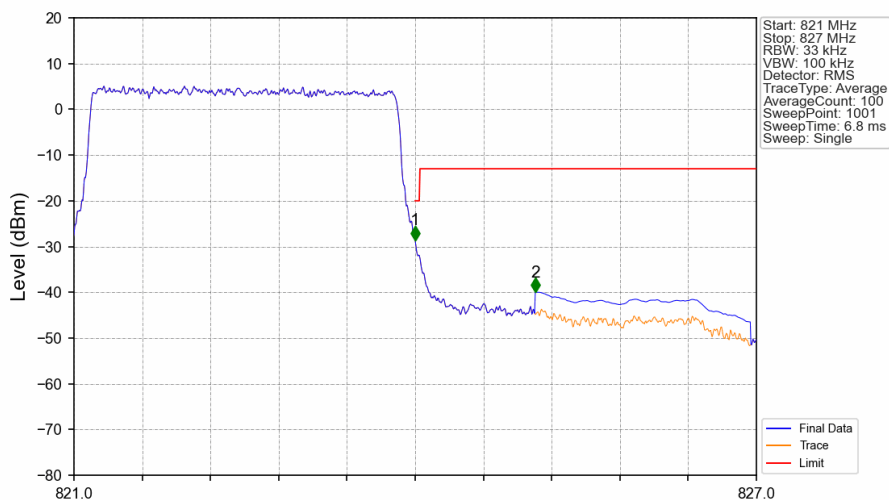
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Band26a_3MHz_QPSK_HCH_822.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	824	0.033	/	/	/	/	/	/
824	825	0.033	/	1	824.000	-28.61	-20	Pass
825	827	0.1	CHP	2	825.056	-39.94	-13	Pass



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5.3 B26a_5MHz

5.3.1 Test Result

Band: 26a / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	816.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	819	1	0	Refer To Test Graph	Pass
	821.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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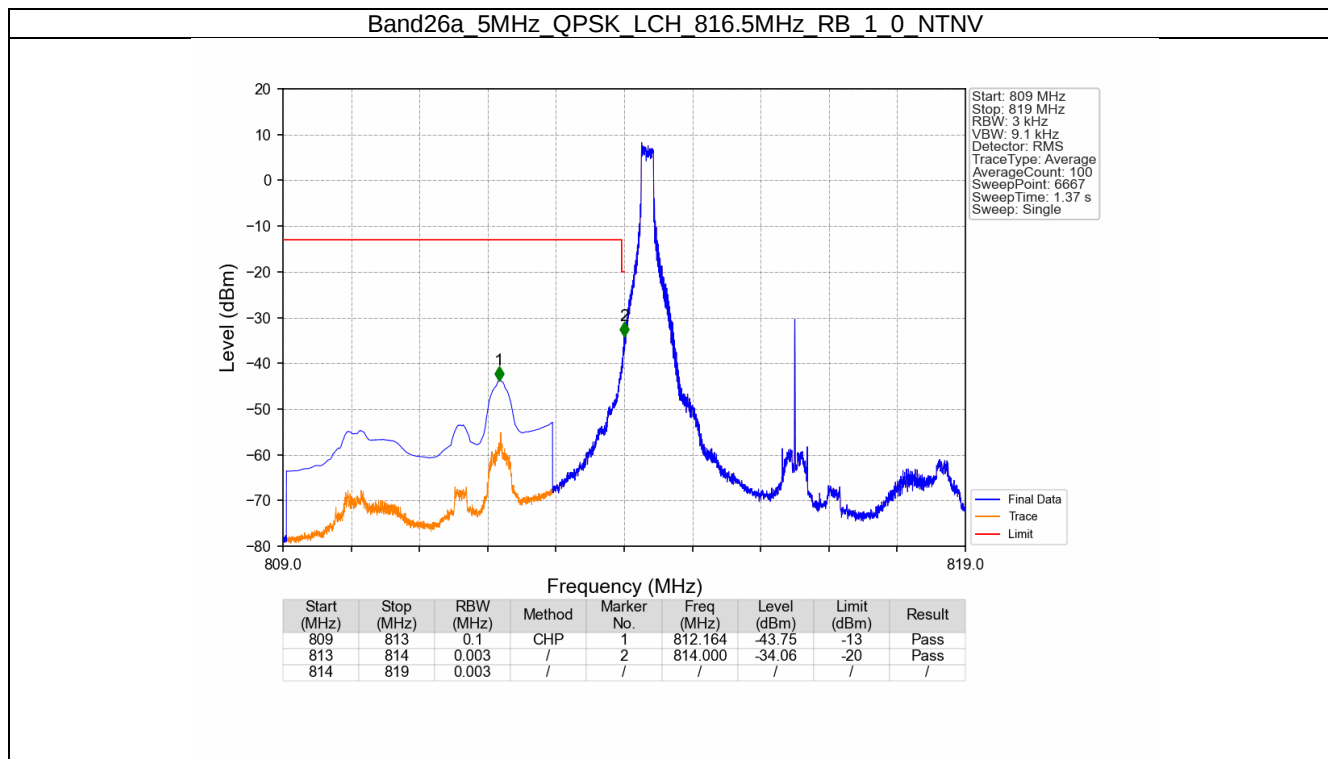
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5.3.2 Test Graph



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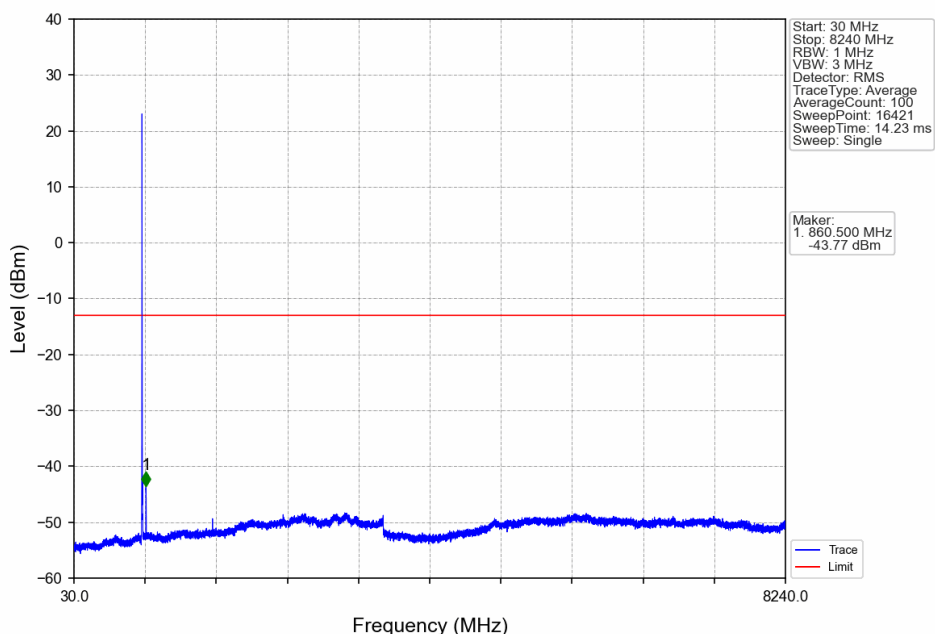
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Band26a_5MHz_QPSK_LCH_816.5MHz_RB_1_0_NTNV



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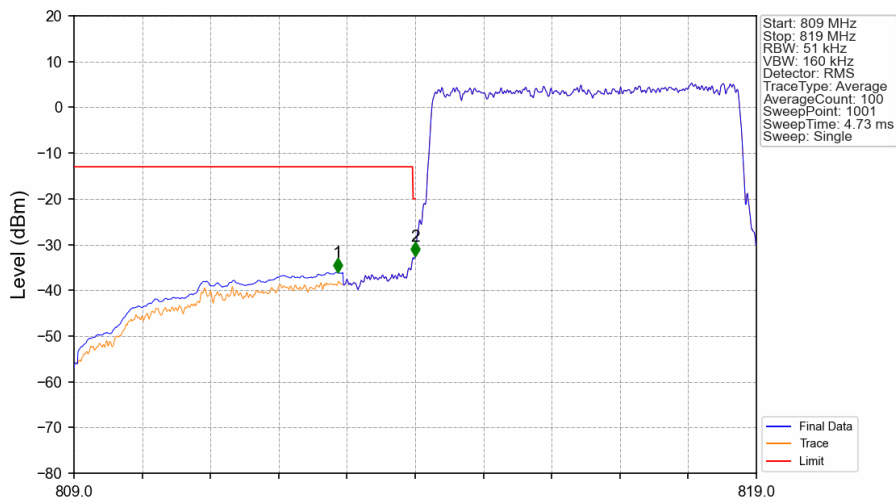
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Band26a_5MHz_QPSK_LCH_816.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
809	813	0.1	CHP	1	812.860	-36.07	-13	Pass
813	814	0.051	/	2	814.000	-32.50	-20	Pass
814	819	0.051	/	/	/	/	/	/



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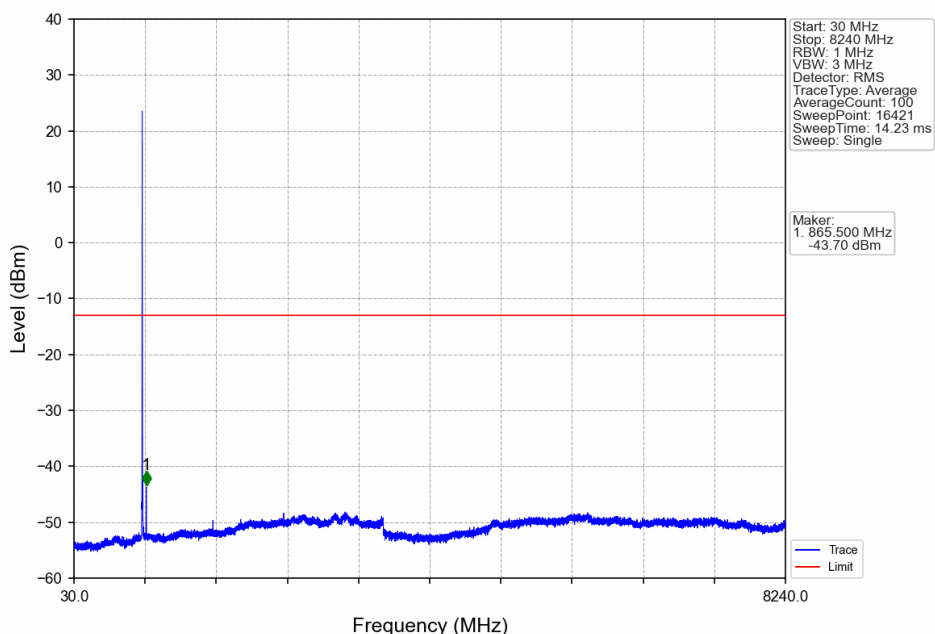
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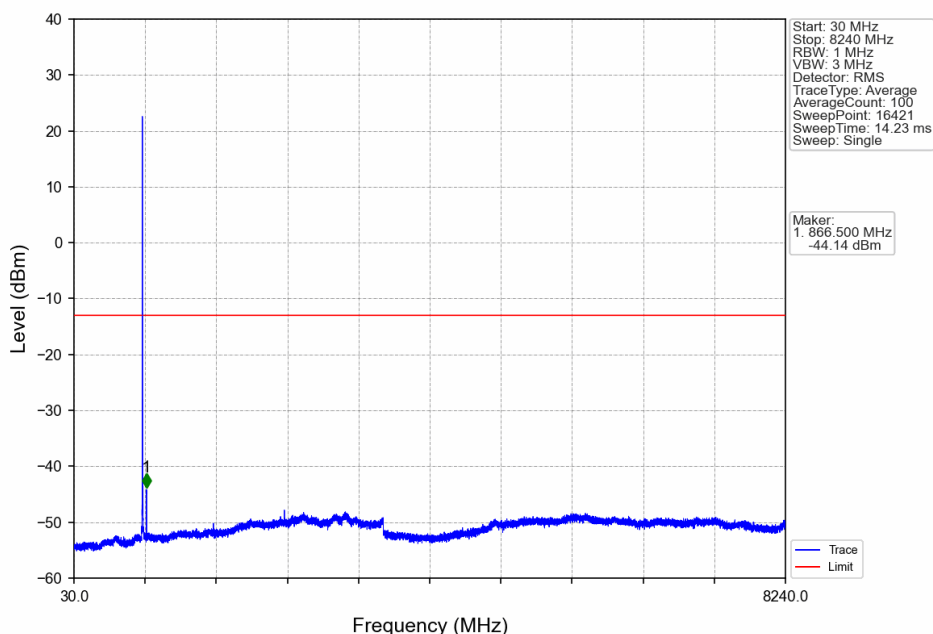
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Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_0_NTNV



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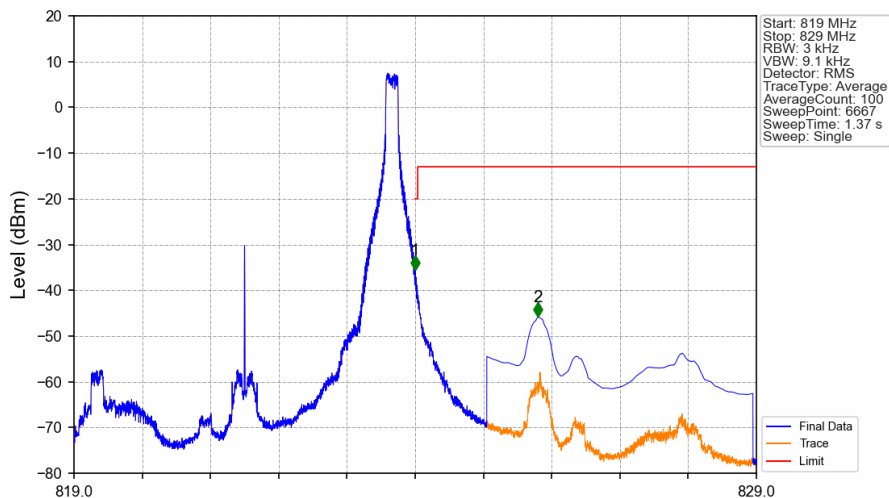
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Band26a_5MHz_QPSK_HCH_821.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.003	/	1	824.000	-35.52	-20	Pass
824	825	0.003	/	1	824.000	-35.52	-20	Pass
825	829	0.1	CHP	2	825.802	-45.81	-13	Pass



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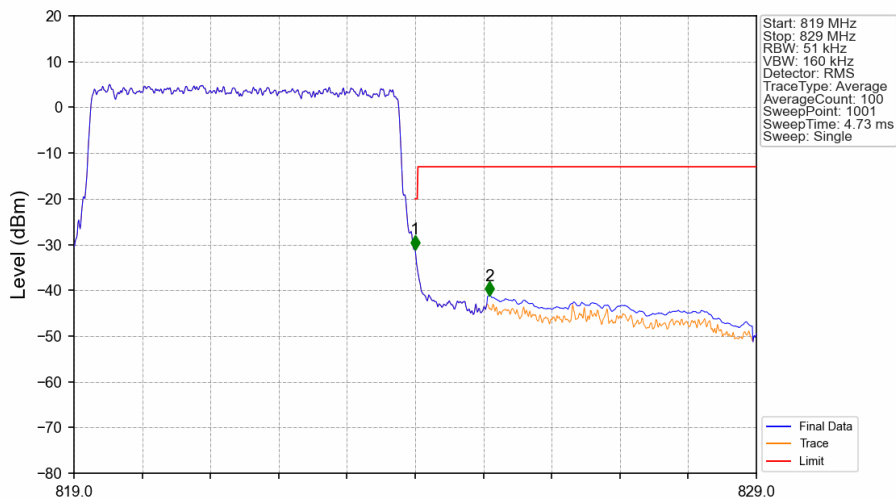
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	824	0.051	/	1	824.000	-31.08	-20	Pass
824	825	0.051	/	1	824.000	-31.08	-20	Pass
825	829	0.1	CHP	2	825.090	-41.17	-13	Pass



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5.4 B26a_10MHz

5.4.1 Test Result

Band: 26a / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	819	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	819	1	49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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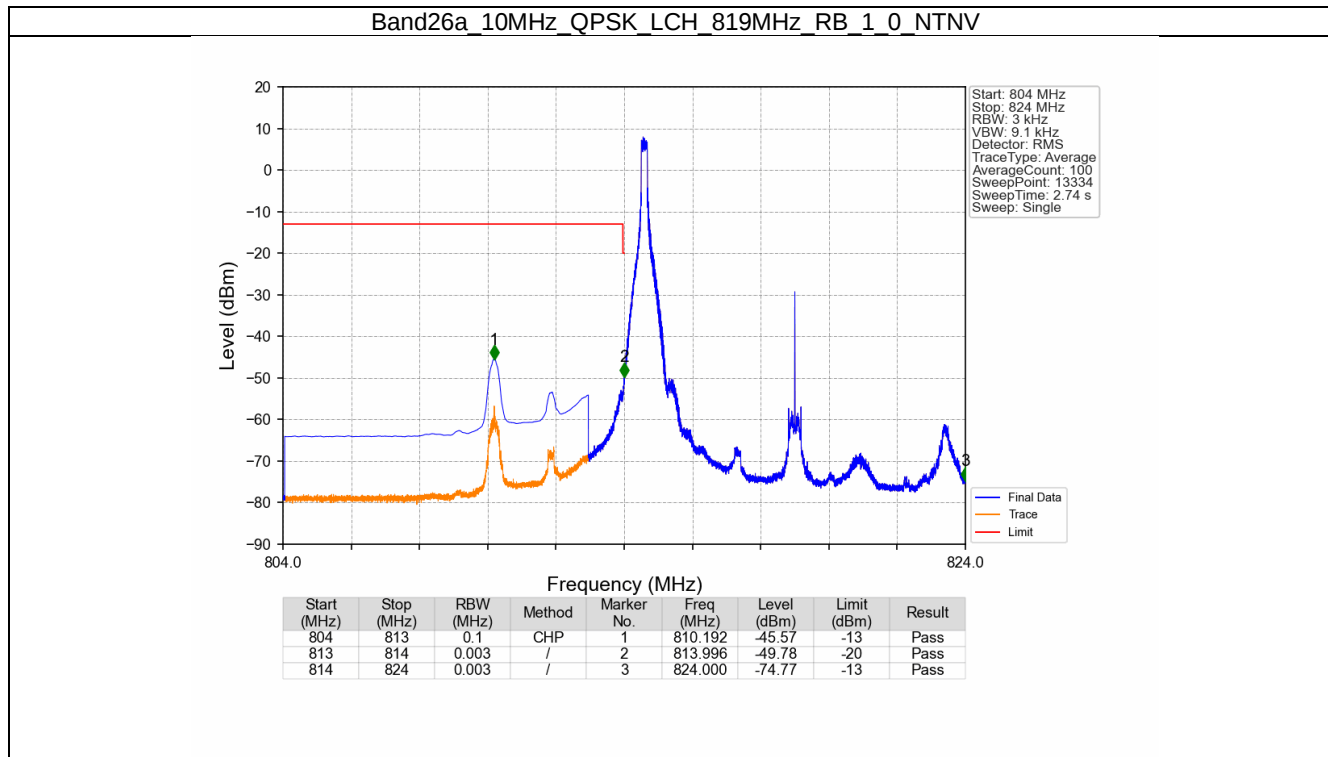
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5.4.2 Test Graph



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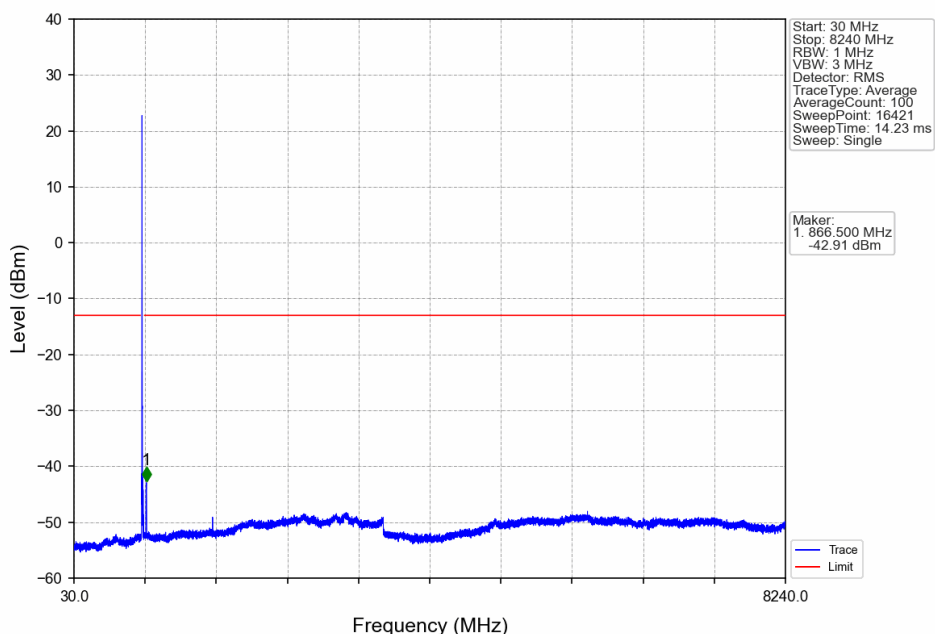
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Band26a_10MHz_QPSK_LCH_819MHz_RB_1_0 NTN



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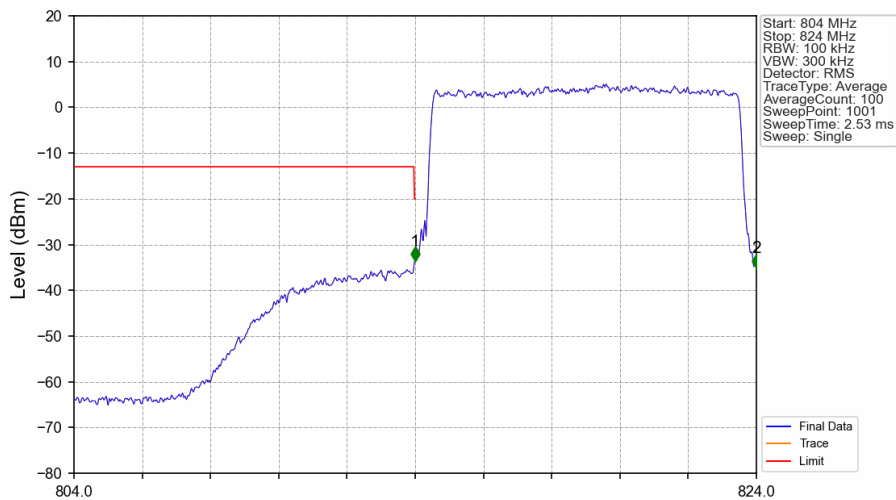
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Band26a_10MHz_QPSK_LCH_819MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
804	814	0.1	/	1	814.000	-33.60	-20	Pass
814	824	0.1	/	2	824.000	-35.13	-13	Pass



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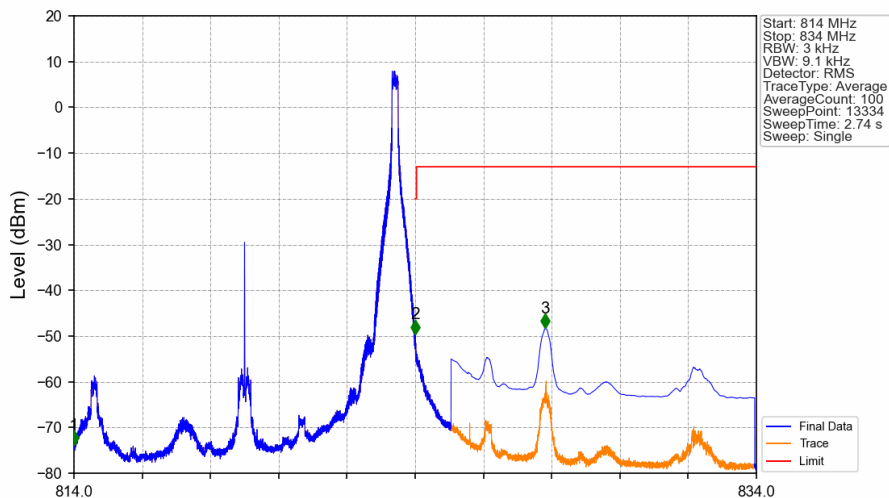
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Band26a_10MHz_QPSK_HCH_819MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.003	/	1	814.000	-73.81	-13	Pass
824	825	0.003	/	2	824.002	-49.58	-20	Pass
824	834	0.1	CHP	3	827.814	-48.32	-13	Pass



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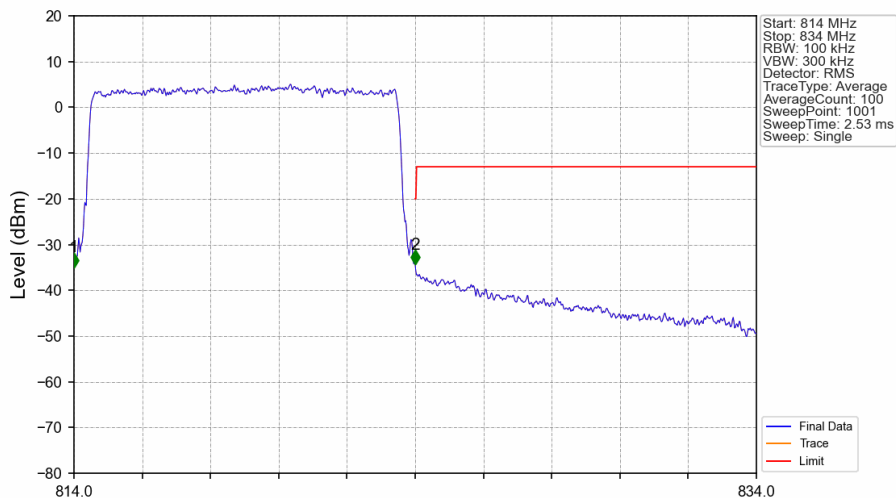
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Band26a_10MHz_QPSK_HCH_819MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	814.000	-34.96	-13	Pass
824	824	0.1	/	/	/	/	/	/
824	834	0.1	/	2	824.000	-34.36	-20	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 26 BW=10M_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.68	39.93	-46.63	24.60	-77.36	-13.00	64.36	Horizontal
2	2489.52	37.10	-44.98	27.38	-75.77	-13.00	62.77	Horizontal
3	3319.36	35.19	-43.56	29.56	-74.06	-13.00	61.06	Horizontal
4	4149.2	34.32	-42.37	31.54	-71.77	-13.00	58.77	Horizontal
5	4979.04	34.14	-41.31	33.15	-69.27	-13.00	56.27	Horizontal
6	5805.88	32.57	-40.19	34.14	-68.74	-13.00	55.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.68	40.12	-46.63	24.60	-77.17	-13.00	64.17	Vertical
2	2489.52	35.50	-44.98	27.38	-77.37	-13.00	64.37	Vertical
3	3319.36	33.77	-43.56	29.56	-75.48	-13.00	62.48	Vertical
4	4149.2	33.57	-42.37	31.54	-72.52	-13.00	59.52	Vertical
5	4979.04	32.52	-41.31	33.15	-70.89	-13.00	57.89	Vertical
6	5805.88	32.69	-40.19	34.14	-68.62	-13.00	55.62	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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