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Appendix B.5

LTE Band 4



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1. Effective (Isotropic) Radiated Power Output Data

For report SUCR240400011301:

1.1 B4_1.4MHz_EIRP (NPANT001)

1.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	23.52	3.91	27.43	<=30	Pass
			2	23.59	3.91	27.50	<=30	Pass
			5	23.53	3.91	27.44	<=30	Pass
		3	0	23.54	3.91	27.45	<=30	Pass
			2	23.58	3.91	27.49	<=30	Pass
			3	23.52	3.91	27.43	<=30	Pass
		6	0	22.59	3.91	26.50	<=30	Pass
	1732.5	1	0	23.51	3.91	27.42	<=30	Pass
			2	23.58	3.91	27.49	<=30	Pass
			5	23.49	3.91	27.40	<=30	Pass
		3	0	23.45	3.91	27.36	<=30	Pass
			2	23.53	3.91	27.44	<=30	Pass
			3	23.49	3.91	27.40	<=30	Pass
		6	0	22.49	3.91	26.40	<=30	Pass
	1754.3	1	0	23.52	3.91	27.43	<=30	Pass
			2	23.60	3.91	27.51	<=30	Pass
			5	23.55	3.91	27.46	<=30	Pass
		3	0	23.56	3.91	27.47	<=30	Pass
			2	23.63	3.91	27.54	<=30	Pass
			3	23.57	3.91	27.48	<=30	Pass
		6	0	22.59	3.91	26.50	<=30	Pass
16QAM	1710.7	1	0	22.65	3.91	26.56	<=30	Pass
			2	22.73	3.91	26.64	<=30	Pass
			5	22.65	3.91	26.56	<=30	Pass
		3	0	22.51	3.91	26.42	<=30	Pass
			2	22.63	3.91	26.54	<=30	Pass
			3	22.56	3.91	26.47	<=30	Pass
		6	0	21.59	3.91	25.50	<=30	Pass
	1732.5	1	0	22.48	3.91	26.39	<=30	Pass
			2	22.57	3.91	26.48	<=30	Pass
			5	22.53	3.91	26.44	<=30	Pass
		3	0	22.55	3.91	26.46	<=30	Pass
			2	22.61	3.91	26.52	<=30	Pass
			3	22.54	3.91	26.45	<=30	Pass
		6	0	21.43	3.91	25.34	<=30	Pass
	1754.3	1	0	22.53	3.91	26.44	<=30	Pass
			2	22.61	3.91	26.52	<=30	Pass



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		5	22.53	3.91	26.44	<=30	Pass
		0	22.74	3.91	26.65	<=30	Pass
	3	2	22.83	3.91	26.74	<=30	Pass
		3	22.80	3.91	26.71	<=30	Pass
	6	0	21.62	3.91	25.53	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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1.2 B4_3MHz_EIRP

1.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.54	3.91	27.45	<=30	Pass
			7	23.67	3.91	27.58	<=30	Pass
			14	23.55	3.91	27.46	<=30	Pass
		8	0	22.68	3.91	26.59	<=30	Pass
			4	22.67	3.91	26.58	<=30	Pass
			7	22.65	3.91	26.56	<=30	Pass
		15	0	22.70	3.91	26.61	<=30	Pass
	1732.5	1	0	23.52	3.91	27.43	<=30	Pass
			7	23.61	3.91	27.52	<=30	Pass
			14	23.48	3.91	27.39	<=30	Pass
		8	0	22.57	3.91	26.48	<=30	Pass
			4	22.61	3.91	26.52	<=30	Pass
			7	22.56	3.91	26.47	<=30	Pass
		15	0	22.57	3.91	26.48	<=30	Pass
	1753.5	1	0	23.65	3.91	27.56	<=30	Pass
			7	23.74	3.91	27.65	<=30	Pass
			14	23.64	3.91	27.55	<=30	Pass
		8	0	22.71	3.91	26.62	<=30	Pass
			4	22.75	3.91	26.66	<=30	Pass
			7	22.69	3.91	26.60	<=30	Pass
		15	0	22.68	3.91	26.59	<=30	Pass
16QAM	1711.5	1	0	23.10	3.91	27.01	<=30	Pass
			7	23.22	3.91	27.13	<=30	Pass
			14	23.08	3.91	26.99	<=30	Pass
		8	0	21.81	3.91	25.72	<=30	Pass
			4	21.86	3.91	25.77	<=30	Pass
			7	21.82	3.91	25.73	<=30	Pass
		15	0	21.76	3.91	25.67	<=30	Pass
	1732.5	1	0	22.67	3.91	26.58	<=30	Pass
			7	22.79	3.91	26.70	<=30	Pass
			14	22.63	3.91	26.54	<=30	Pass
		8	0	21.56	3.91	25.47	<=30	Pass
			4	21.60	3.91	25.51	<=30	Pass
			7	21.52	3.91	25.43	<=30	Pass
		15	0	21.56	3.91	25.47	<=30	Pass
	1753.5	1	0	22.68	3.91	26.59	<=30	Pass
			7	22.75	3.91	26.66	<=30	Pass
			14	22.59	3.91	26.50	<=30	Pass
		8	0	21.76	3.91	25.67	<=30	Pass
			4	21.80	3.91	25.71	<=30	Pass
			7	21.76	3.91	25.67	<=30	Pass
		15	0	21.76	3.91	25.67	<=30	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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1.3 B4_5MHz_EIRP

1.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.56	3.91	27.47	<=30	Pass
			13	23.70	3.91	27.61	<=30	Pass
			24	23.54	3.91	27.45	<=30	Pass
		12	0	22.68	3.91	26.59	<=30	Pass
			6	22.69	3.91	26.60	<=30	Pass
			13	22.64	3.91	26.55	<=30	Pass
		25	0	22.65	3.91	26.56	<=30	Pass
	1732.5	1	0	23.56	3.91	27.47	<=30	Pass
			13	23.63	3.91	27.54	<=30	Pass
			24	23.52	3.91	27.43	<=30	Pass
		12	0	22.58	3.91	26.49	<=30	Pass
			6	22.58	3.91	26.49	<=30	Pass
			13	22.54	3.91	26.45	<=30	Pass
		25	0	22.54	3.91	26.45	<=30	Pass
	1752.5	1	0	23.64	3.91	27.55	<=30	Pass
			13	23.73	3.91	27.64	<=30	Pass
			24	23.60	3.91	27.51	<=30	Pass
		12	0	22.71	3.91	26.62	<=30	Pass
			6	22.72	3.91	26.63	<=30	Pass
			13	22.66	3.91	26.57	<=30	Pass
		25	0	22.68	3.91	26.59	<=30	Pass
16QAM	1712.5	1	0	22.42	3.91	26.33	<=30	Pass
			13	22.57	3.91	26.48	<=30	Pass
			24	22.44	3.91	26.35	<=30	Pass
		12	0	21.71	3.91	25.62	<=30	Pass
			6	21.71	3.91	25.62	<=30	Pass
			13	21.63	3.91	25.54	<=30	Pass
		25	0	21.68	3.91	25.59	<=30	Pass
	1732.5	1	0	22.77	3.91	26.68	<=30	Pass
			13	22.85	3.91	26.76	<=30	Pass
			24	22.73	3.91	26.64	<=30	Pass
		12	0	21.65	3.91	25.56	<=30	Pass
			6	21.64	3.91	25.55	<=30	Pass
			13	21.60	3.91	25.51	<=30	Pass
		25	0	21.55	3.91	25.46	<=30	Pass
	1752.5	1	0	22.69	3.91	26.60	<=30	Pass
			13	22.77	3.91	26.68	<=30	Pass
			24	22.72	3.91	26.63	<=30	Pass
		12	0	21.70	3.91	25.61	<=30	Pass
			6	21.72	3.91	25.63	<=30	Pass
			13	21.66	3.91	25.57	<=30	Pass
		25	0	21.71	3.91	25.62	<=30	Pass



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1.4 B4_10MHz_EIRP

1.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.62	3.91	27.53	<=30	Pass
			25	23.59	3.91	27.50	<=30	Pass
			49	23.57	3.91	27.48	<=30	Pass
		25	0	22.72	3.91	26.63	<=30	Pass
			13	22.67	3.91	26.58	<=30	Pass
			25	22.69	3.91	26.60	<=30	Pass
		50	0	22.66	3.91	26.57	<=30	Pass
	1732.5	1	0	23.58	3.91	27.49	<=30	Pass
			25	23.56	3.91	27.47	<=30	Pass
			49	23.50	3.91	27.41	<=30	Pass
		25	0	22.61	3.91	26.52	<=30	Pass
			13	22.57	3.91	26.48	<=30	Pass
			25	22.53	3.91	26.44	<=30	Pass
		50	0	22.57	3.91	26.48	<=30	Pass
	1750	1	0	23.70	3.91	27.61	<=30	Pass
			25	23.65	3.91	27.56	<=30	Pass
			49	23.56	3.91	27.47	<=30	Pass
		25	0	22.73	3.91	26.64	<=30	Pass
			13	22.68	3.91	26.59	<=30	Pass
			25	22.65	3.91	26.56	<=30	Pass
		50	0	22.69	3.91	26.60	<=30	Pass
16QAM	1715	1	0	23.17	3.91	27.08	<=30	Pass
			25	23.18	3.91	27.09	<=30	Pass
			49	23.10	3.91	27.01	<=30	Pass
		25	0	21.77	3.91	25.68	<=30	Pass
			13	21.74	3.91	25.65	<=30	Pass
			25	21.77	3.91	25.68	<=30	Pass
		50	0	21.69	3.91	25.60	<=30	Pass
	1732.5	1	0	22.72	3.91	26.63	<=30	Pass
			25	22.69	3.91	26.60	<=30	Pass
			49	22.62	3.91	26.53	<=30	Pass
		25	0	21.64	3.91	25.55	<=30	Pass
			13	21.62	3.91	25.53	<=30	Pass
			25	21.56	3.91	25.47	<=30	Pass
		50	0	21.62	3.91	25.53	<=30	Pass
	1750	1	0	22.63	3.91	26.54	<=30	Pass
			25	22.61	3.91	26.52	<=30	Pass
			49	22.58	3.91	26.49	<=30	Pass
		25	0	21.74	3.91	25.65	<=30	Pass
			13	21.79	3.91	25.70	<=30	Pass
			25	21.74	3.91	25.65	<=30	Pass
		50	0	21.73	3.91	25.64	<=30	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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1.5 B4_15MHz_EIRP

1.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.54	3.91	27.45	<=30	Pass
			38	23.61	3.91	27.52	<=30	Pass
			74	23.43	3.91	27.34	<=30	Pass
		36	0	22.71	3.91	26.62	<=30	Pass
			18	22.76	3.91	26.67	<=30	Pass
			39	22.59	3.91	26.50	<=30	Pass
		75	0	22.58	3.91	26.49	<=30	Pass
	1732.5	1	0	23.56	3.91	27.47	<=30	Pass
			38	23.51	3.91	27.42	<=30	Pass
			74	23.43	3.91	27.34	<=30	Pass
		36	0	22.60	3.91	26.51	<=30	Pass
			18	22.62	3.91	26.53	<=30	Pass
			39	22.59	3.91	26.50	<=30	Pass
		75	0	22.60	3.91	26.51	<=30	Pass
	1747.5	1	0	23.57	3.91	27.48	<=30	Pass
			38	23.62	3.91	27.53	<=30	Pass
			74	23.55	3.91	27.46	<=30	Pass
		36	0	22.58	3.91	26.49	<=30	Pass
			18	22.79	3.91	26.70	<=30	Pass
			39	22.73	3.91	26.64	<=30	Pass
		75	0	22.61	3.91	26.52	<=30	Pass
16QAM	1717.5	1	0	23.16	3.91	27.07	<=30	Pass
			38	23.20	3.91	27.11	<=30	Pass
			74	23.01	3.91	26.92	<=30	Pass
		36	0	21.72	3.91	25.63	<=30	Pass
			18	21.79	3.91	25.70	<=30	Pass
			39	21.62	3.91	25.53	<=30	Pass
		75	0	21.60	3.91	25.51	<=30	Pass
	1732.5	1	0	22.74	3.91	26.65	<=30	Pass
			38	22.72	3.91	26.63	<=30	Pass
			74	22.56	3.91	26.47	<=30	Pass
		36	0	21.61	3.91	25.52	<=30	Pass
			18	21.61	3.91	25.52	<=30	Pass
			39	21.61	3.91	25.52	<=30	Pass
		75	0	21.64	3.91	25.55	<=30	Pass
	1747.5	1	0	22.84	3.91	26.75	<=30	Pass
			38	22.96	3.91	26.87	<=30	Pass
			74	22.90	3.91	26.81	<=30	Pass
		36	0	21.58	3.91	25.49	<=30	Pass
			18	21.72	3.91	25.63	<=30	Pass
			39	21.71	3.91	25.62	<=30	Pass
		75	0	21.53	3.91	25.44	<=30	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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1.6 B4_20MHz_EIRP

1.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.54	3.91	27.45	<=30	Pass
			50	23.58	3.91	27.49	<=30	Pass
			99	23.42	3.91	27.33	<=30	Pass
		50	0	22.66	3.91	26.57	<=30	Pass
			25	22.57	3.91	26.48	<=30	Pass
			50	22.54	3.91	26.45	<=30	Pass
		100	0	22.51	3.91	26.42	<=30	Pass
	1732.5	1	0	23.54	3.91	27.45	<=30	Pass
			50	23.58	3.91	27.49	<=30	Pass
			99	23.49	3.91	27.40	<=30	Pass
		50	0	22.59	3.91	26.50	<=30	Pass
			25	22.60	3.91	26.51	<=30	Pass
			50	22.52	3.91	26.43	<=30	Pass
		100	0	22.59	3.91	26.50	<=30	Pass
	1745	1	0	23.51	3.91	27.42	<=30	Pass
			50	23.61	3.91	27.52	<=30	Pass
			99	23.55	3.91	27.46	<=30	Pass
		50	0	22.56	3.91	26.47	<=30	Pass
			25	22.61	3.91	26.52	<=30	Pass
			50	22.70	3.91	26.61	<=30	Pass
		100	0	22.52	3.91	26.43	<=30	Pass
16QAM	1720	1	0	22.85	3.91	26.76	<=30	Pass
			50	22.87	3.91	26.78	<=30	Pass
			99	22.72	3.91	26.63	<=30	Pass
		50	0	21.73	3.91	25.64	<=30	Pass
			25	21.58	3.91	25.49	<=30	Pass
			50	21.58	3.91	25.49	<=30	Pass
		100	0	21.54	3.91	25.45	<=30	Pass
	1732.5	1	0	22.76	3.91	26.67	<=30	Pass
			50	22.73	3.91	26.64	<=30	Pass
			99	22.64	3.91	26.55	<=30	Pass
		50	0	21.61	3.91	25.52	<=30	Pass
			25	21.61	3.91	25.52	<=30	Pass
			50	21.54	3.91	25.45	<=30	Pass
		100	0	21.60	3.91	25.51	<=30	Pass
	1745	1	0	23.06	3.91	26.97	<=30	Pass
			50	23.11	3.91	27.02	<=30	Pass
			99	23.08	3.91	26.99	<=30	Pass
		50	0	21.54	3.91	25.45	<=30	Pass
			25	21.56	3.91	25.47	<=30	Pass
			50	21.66	3.91	25.57	<=30	Pass
		100	0	21.55	3.91	25.46	<=30	Pass



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Note1: EIRP=Conducted Power+Antenna Gain



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For report SUCR240500014801:

1.7 B4_1.4MHz_ EIRP (NPANT001)

1.7.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.99	3.91	26.90	<=30	Pass
			2	23.10	3.91	27.01	<=30	Pass
			5	22.97	3.91	26.88	<=30	Pass
		3	0	23.02	3.91	26.93	<=30	Pass
			2	23.05	3.91	26.96	<=30	Pass
			3	23.01	3.91	26.92	<=30	Pass
		6	0	22.01	3.91	25.92	<=30	Pass
	1732.5	1	0	23.08	3.91	26.99	<=30	Pass
			2	23.15	3.91	27.06	<=30	Pass
			5	23.09	3.91	27.00	<=30	Pass
		3	0	23.06	3.91	26.97	<=30	Pass
			2	23.08	3.91	26.99	<=30	Pass
			3	23.02	3.91	26.93	<=30	Pass
		6	0	22.09	3.91	26.00	<=30	Pass
	1754.3	1	0	23.19	3.91	27.10	<=30	Pass
			2	23.28	3.91	27.19	<=30	Pass
			5	23.17	3.91	27.08	<=30	Pass
		3	0	23.14	3.91	27.05	<=30	Pass
			2	23.19	3.91	27.10	<=30	Pass
			3	23.13	3.91	27.04	<=30	Pass
		6	0	22.17	3.91	26.08	<=30	Pass
16QAM	1710.7	1	0	22.09	3.91	26.00	<=30	Pass
			2	22.21	3.91	26.12	<=30	Pass
			5	22.13	3.91	26.04	<=30	Pass
		3	0	22.13	3.91	26.04	<=30	Pass
			2	22.18	3.91	26.09	<=30	Pass
			3	22.16	3.91	26.07	<=30	Pass
		6	0	21.00	3.91	24.91	<=30	Pass
	1732.5	1	0	21.94	3.91	25.85	<=30	Pass
			2	21.99	3.91	25.90	<=30	Pass
			5	21.92	3.91	25.83	<=30	Pass
		3	0	22.06	3.91	25.97	<=30	Pass
			2	22.10	3.91	26.01	<=30	Pass
			3	22.04	3.91	25.95	<=30	Pass
		6	0	21.04	3.91	24.95	<=30	Pass
	1754.3	1	0	22.09	3.91	26.00	<=30	Pass
			2	22.19	3.91	26.10	<=30	Pass
			5	22.07	3.91	25.98	<=30	Pass
		3	0	22.34	3.91	26.25	<=30	Pass
			2	22.42	3.91	26.33	<=30	Pass



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		3	22.35	3.91	26.26	<=30	Pass
	6	0	21.18	3.91	25.09	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.8 B4_3MHz_EIRP

1.8.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.04	3.91	26.95	<=30	Pass
			7	23.17	3.91	27.08	<=30	Pass
			14	23.01	3.91	26.92	<=30	Pass
		8	0	22.11	3.91	26.02	<=30	Pass
			4	22.17	3.91	26.08	<=30	Pass
			7	22.11	3.91	26.02	<=30	Pass
		15	0	22.16	3.91	26.07	<=30	Pass
	1732.5	1	0	23.08	3.91	26.99	<=30	Pass
			7	23.17	3.91	27.08	<=30	Pass
			14	23.06	3.91	26.97	<=30	Pass
		8	0	22.19	3.91	26.10	<=30	Pass
			4	22.23	3.91	26.14	<=30	Pass
			7	22.18	3.91	26.09	<=30	Pass
		15	0	22.20	3.91	26.11	<=30	Pass
	1753.5	1	0	23.15	3.91	27.06	<=30	Pass
			7	23.29	3.91	27.20	<=30	Pass
			14	23.19	3.91	27.10	<=30	Pass
		8	0	22.26	3.91	26.17	<=30	Pass
			4	22.26	3.91	26.17	<=30	Pass
			7	22.20	3.91	26.11	<=30	Pass
		15	0	22.27	3.91	26.18	<=30	Pass
16QAM	1711.5	1	0	22.23	3.91	26.14	<=30	Pass
			7	22.38	3.91	26.29	<=30	Pass
			14	22.24	3.91	26.15	<=30	Pass
		8	0	21.16	3.91	25.07	<=30	Pass
			4	21.20	3.91	25.11	<=30	Pass
			7	21.14	3.91	25.05	<=30	Pass
		15	0	21.16	3.91	25.07	<=30	Pass
	1732.5	1	0	22.16	3.91	26.07	<=30	Pass
			7	22.27	3.91	26.18	<=30	Pass
			14	22.13	3.91	26.04	<=30	Pass
		8	0	21.18	3.91	25.09	<=30	Pass
			4	21.20	3.91	25.11	<=30	Pass
			7	21.14	3.91	25.05	<=30	Pass
		15	0	21.07	3.91	24.98	<=30	Pass
	1753.5	1	0	22.08	3.91	25.99	<=30	Pass
			7	22.12	3.91	26.03	<=30	Pass



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		14	22.06	3.91	25.97	<=30	Pass
		0	21.27	3.91	25.18	<=30	Pass
	8	4	21.31	3.91	25.22	<=30	Pass
		7	21.28	3.91	25.19	<=30	Pass
	15	0	21.28	3.91	25.19	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.9 B4_5MHz_EIRP

1.9.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.07	3.91	26.98	<=30	Pass
			13	23.16	3.91	27.07	<=30	Pass
			24	23.02	3.91	26.93	<=30	Pass
		12	0	22.16	3.91	26.07	<=30	Pass
			6	22.19	3.91	26.10	<=30	Pass
			13	22.15	3.91	26.06	<=30	Pass
		25	0	22.17	3.91	26.08	<=30	Pass
	1732.5	1	0	23.11	3.91	27.02	<=30	Pass
			13	23.18	3.91	27.09	<=30	Pass
			24	23.05	3.91	26.96	<=30	Pass
		12	0	22.21	3.91	26.12	<=30	Pass
			6	22.24	3.91	26.15	<=30	Pass
			13	22.15	3.91	26.06	<=30	Pass
		25	0	22.18	3.91	26.09	<=30	Pass
	1752.5	1	0	23.09	3.91	27.00	<=30	Pass
			13	23.19	3.91	27.10	<=30	Pass
			24	23.04	3.91	26.95	<=30	Pass
		12	0	22.24	3.91	26.15	<=30	Pass
			6	22.25	3.91	26.16	<=30	Pass
			13	22.24	3.91	26.15	<=30	Pass
		25	0	22.21	3.91	26.12	<=30	Pass
16QAM	1712.5	1	0	22.26	3.91	26.17	<=30	Pass
			13	22.41	3.91	26.32	<=30	Pass
			24	22.30	3.91	26.21	<=30	Pass
		12	0	21.16	3.91	25.07	<=30	Pass
			6	21.19	3.91	25.10	<=30	Pass
			13	21.16	3.91	25.07	<=30	Pass
		25	0	21.20	3.91	25.11	<=30	Pass
	1732.5	1	0	22.18	3.91	26.09	<=30	Pass
			13	22.28	3.91	26.19	<=30	Pass
			24	22.19	3.91	26.10	<=30	Pass
		12	0	21.12	3.91	25.03	<=30	Pass
			6	21.13	3.91	25.04	<=30	Pass
			13	21.09	3.91	25.00	<=30	Pass



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		25	0	21.10	3.91	25.01	<=30	Pass
	1752.5	1	0	22.39	3.91	26.30	<=30	Pass
			13	22.46	3.91	26.37	<=30	Pass
			24	22.34	3.91	26.25	<=30	Pass
			0	21.32	3.91	25.23	<=30	Pass
		12	6	21.34	3.91	25.25	<=30	Pass
			13	21.29	3.91	25.20	<=30	Pass
		25	0	21.30	3.91	25.21	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.10 B4_10MHz_EIRP

1.10.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.08	3.91	26.99	<=30	Pass
			25	23.09	3.91	27.00	<=30	Pass
			49	23.03	3.91	26.94	<=30	Pass
		25	0	22.15	3.91	26.06	<=30	Pass
			13	22.18	3.91	26.09	<=30	Pass
			25	22.15	3.91	26.06	<=30	Pass
	1732.5	1	0	22.16	3.91	26.07	<=30	Pass
			0	23.13	3.91	27.04	<=30	Pass
			25	23.13	3.91	27.04	<=30	Pass
		25	49	23.05	3.91	26.96	<=30	Pass
			0	22.23	3.91	26.14	<=30	Pass
			13	22.20	3.91	26.11	<=30	Pass
	1750	25	25	22.15	3.91	26.06	<=30	Pass
			0	22.14	3.91	26.05	<=30	Pass
			0	23.23	3.91	27.14	<=30	Pass
		1	0	23.19	3.91	27.10	<=30	Pass
			25	23.16	3.91	27.07	<=30	Pass
			49	23.16	3.91	27.07	<=30	Pass
16QAM	1715	1	0	22.22	3.91	26.13	<=30	Pass
			13	22.22	3.91	26.13	<=30	Pass
			25	22.21	3.91	26.12	<=30	Pass
		25	0	22.22	3.91	26.13	<=30	Pass
			0	22.32	3.91	26.23	<=30	Pass
			25	22.31	3.91	26.22	<=30	Pass
	1732.5	1	49	22.25	3.91	26.16	<=30	Pass
			0	21.25	3.91	25.16	<=30	Pass
			13	21.23	3.91	25.14	<=30	Pass
		25	25	21.24	3.91	25.15	<=30	Pass
			0	21.17	3.91	25.08	<=30	Pass
			0	22.27	3.91	26.18	<=30	Pass



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		25	0	21.18	3.91	25.09	<=30	Pass
			13	21.16	3.91	25.07	<=30	Pass
			25	21.10	3.91	25.01	<=30	Pass
	1750	50	0	21.17	3.91	25.08	<=30	Pass
			0	22.04	3.91	25.95	<=30	Pass
			25	22.02	3.91	25.93	<=30	Pass
		1	49	21.98	3.91	25.89	<=30	Pass
			0	21.20	3.91	25.11	<=30	Pass
			13	21.20	3.91	25.11	<=30	Pass
		25	25	21.24	3.91	25.15	<=30	Pass
			0	21.23	3.91	25.14	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.11 B4_15MHz_EIRP

1.11.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.08	3.91	26.99	<=30	Pass
			38	23.12	3.91	27.03	<=30	Pass
			74	23.05	3.91	26.96	<=30	Pass
		36	0	22.16	3.91	26.07	<=30	Pass
			18	22.19	3.91	26.10	<=30	Pass
			39	22.17	3.91	26.08	<=30	Pass
		75	0	22.15	3.91	26.06	<=30	Pass
			0	23.13	3.91	27.04	<=30	Pass
			38	23.06	3.91	26.97	<=30	Pass
	1732.5	1	74	23.02	3.91	26.93	<=30	Pass
			0	22.19	3.91	26.10	<=30	Pass
			36	22.26	3.91	26.17	<=30	Pass
		36	18	22.26	3.91	26.17	<=30	Pass
			39	22.21	3.91	26.12	<=30	Pass
			0	22.18	3.91	26.09	<=30	Pass
		75	0	22.18	3.91	26.09	<=30	Pass
			0	23.08	3.91	26.99	<=30	Pass
			38	23.19	3.91	27.10	<=30	Pass
	1747.5	1	74	23.13	3.91	27.04	<=30	Pass
			0	22.20	3.91	26.11	<=30	Pass
			36	22.29	3.91	26.20	<=30	Pass
		36	18	22.29	3.91	26.20	<=30	Pass
			39	22.27	3.91	26.18	<=30	Pass
			0	22.15	3.91	26.06	<=30	Pass
		75	0	22.15	3.91	26.06	<=30	Pass
			0	22.29	3.91	26.20	<=30	Pass
			38	22.32	3.91	26.23	<=30	Pass
16QAM	1717.5	1	74	22.27	3.91	26.18	<=30	Pass
			0	21.16	3.91	25.07	<=30	Pass
			18	21.23	3.91	25.14	<=30	Pass
		36	39	21.18	3.91	25.09	<=30	Pass
			0	21.17	3.91	25.08	<=30	Pass
		75	0	21.17	3.91	25.08	<=30	Pass



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	1732.5	1	0	22.25	3.91	26.16	<=30	Pass
			38	22.21	3.91	26.12	<=30	Pass
			74	22.11	3.91	26.02	<=30	Pass
		36	0	21.21	3.91	25.12	<=30	Pass
			18	21.19	3.91	25.10	<=30	Pass
			39	21.14	3.91	25.05	<=30	Pass
		75	0	21.19	3.91	25.10	<=30	Pass
	1747.5	1	0	22.14	3.91	26.05	<=30	Pass
			38	22.29	3.91	26.20	<=30	Pass
			74	22.22	3.91	26.13	<=30	Pass
		36	0	21.17	3.91	25.08	<=30	Pass
			18	21.29	3.91	25.20	<=30	Pass
			39	21.25	3.91	25.16	<=30	Pass
		75	0	21.13	3.91	25.04	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.12 B4_20MHz_EIRP

1.12.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	22.99	3.91	26.90	<=30	Pass
			50	23.02	3.91	26.93	<=30	Pass
			99	22.98	3.91	26.89	<=30	Pass
		50	0	22.16	3.91	26.07	<=30	Pass
			25	22.22	3.91	26.13	<=30	Pass
			50	22.12	3.91	26.03	<=30	Pass
		100	0	22.13	3.91	26.04	<=30	Pass
	1732.5	1	0	23.16	3.91	27.07	<=30	Pass
			50	23.16	3.91	27.07	<=30	Pass
			99	23.08	3.91	26.99	<=30	Pass
		50	0	22.19	3.91	26.10	<=30	Pass
			25	22.19	3.91	26.10	<=30	Pass
			50	22.17	3.91	26.08	<=30	Pass
		100	0	22.14	3.91	26.05	<=30	Pass
	1745	1	0	23.06	3.91	26.97	<=30	Pass
			50	23.15	3.91	27.06	<=30	Pass
			99	23.14	3.91	27.05	<=30	Pass
		50	0	22.17	3.91	26.08	<=30	Pass
			25	22.14	3.91	26.05	<=30	Pass
			50	22.22	3.91	26.13	<=30	Pass
		100	0	22.17	3.91	26.08	<=30	Pass
16QAM	1720	1	0	22.18	3.91	26.09	<=30	Pass
			50	22.23	3.91	26.14	<=30	Pass
			99	22.13	3.91	26.04	<=30	Pass
		50	0	21.21	3.91	25.12	<=30	Pass



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			25	21.23	3.91	25.14	<=30	Pass
			50	21.23	3.91	25.14	<=30	Pass
		100	0	21.18	3.91	25.09	<=30	Pass
	1732.5	1	0	22.01	3.91	25.92	<=30	Pass
			50	21.97	3.91	25.88	<=30	Pass
			99	21.88	3.91	25.79	<=30	Pass
		50	0	21.21	3.91	25.12	<=30	Pass
			25	21.18	3.91	25.09	<=30	Pass
			50	21.14	3.91	25.05	<=30	Pass
		100	0	21.17	3.91	25.08	<=30	Pass
	1745	1	0	21.88	3.91	25.79	<=30	Pass
			50	21.97	3.91	25.88	<=30	Pass
			99	21.92	3.91	25.83	<=30	Pass
		50	0	21.21	3.91	25.12	<=30	Pass
			25	21.18	3.91	25.09	<=30	Pass
			50	21.27	3.91	25.18	<=30	Pass
		100	0	21.18	3.91	25.09	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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2. Frequency Stability

2.6 B4_20MHz

2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.135	-7.978	-0.0046	/	Pass
					3.7	-11.544	-0.0067	/	Pass
					4.4	-0.238	-0.0001	/	Pass
				-30	3.7	-7.551	-0.0044	/	Pass
					3.7	-7.922	-0.0046	/	Pass
					3.7	-4.229	-0.0025	/	Pass
				0	3.7	-1.748	-0.0010	/	Pass
					3.7	-3.109	-0.0018	/	Pass
					3.7	-1.022	-0.0006	/	Pass
				40	3.7	-7.210	-0.0042	/	Pass
					3.7	-7.176	-0.0042	/	Pass
	1732.5	100	0	20	3.135	-3.719	-0.0021	/	Pass
					3.7	3.495	0.0020	/	Pass
					4.4	10.076	0.0058	/	Pass
				-30	3.7	13.795	0.0080	/	Pass
					3.7	8.735	0.0050	/	Pass
					3.7	7.160	0.0041	/	Pass
				0	3.7	11.199	0.0065	/	Pass
					3.7	2.103	0.0012	/	Pass
					3.7	-0.354	-0.0002	/	Pass
				40	3.7	4.687	0.0027	/	Pass
					3.7	-3.416	-0.0020	/	Pass
	1745	100	0	20	3.135	2.423	0.0014	/	Pass
					3.7	3.881	0.0022	/	Pass
					4.4	-7.545	-0.0043	/	Pass
				-30	3.7	5.503	0.0032	/	Pass
					3.7	-7.818	-0.0045	/	Pass
					3.7	-9.012	-0.0052	/	Pass
				0	3.7	6.686	0.0038	/	Pass
					3.7	6.371	0.0037	/	Pass
					3.7	-2.990	-0.0017	/	Pass
				40	3.7	6.683	0.0038	/	Pass
					3.7	-3.954	-0.0023	/	Pass
16QAM	1720	100	0	20	3.135	-8.414	-0.0049	/	Pass
					3.7	-0.330	-0.0002	/	Pass
					4.4	-0.951	-0.0006	/	Pass
				-30	3.7	-11.581	-0.0067	/	Pass
					3.7	-10.354	-0.0060	/	Pass
					3.7	-1.006	-0.0006	/	Pass
				0	3.7	-3.260	-0.0019	/	Pass



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				10	3.7	-5.173	-0.0030	/	Pass
				30	3.7	0.030	0.0000	/	Pass
				40	3.7	-12.271	-0.0071	/	Pass
				50	3.7	2.824	0.0016	/	Pass
	1732.5	100	0	20	3.135	-2.328	-0.0013	/	Pass
					3.7	5.820	0.0034	/	Pass
					4.4	-2.318	-0.0013	/	Pass
				-30	3.7	1.490	0.0009	/	Pass
				-20	3.7	9.519	0.0055	/	Pass
				-10	3.7	10.589	0.0061	/	Pass
				0	3.7	12.836	0.0074	/	Pass
				10	3.7	-0.830	-0.0005	/	Pass
				30	3.7	-0.774	-0.0004	/	Pass
				40	3.7	-1.117	-0.0006	/	Pass
				50	3.7	7.167	0.0041	/	Pass
	1745	100	0	20	3.135	6.268	0.0036	/	Pass
					3.7	7.154	0.0041	/	Pass
					4.4	3.552	0.0020	/	Pass
				-30	3.7	5.946	0.0034	/	Pass
				-20	3.7	-8.344	-0.0048	/	Pass
				-10	3.7	-4.404	-0.0025	/	Pass
				0	3.7	3.132	0.0018	/	Pass
				10	3.7	6.661	0.0038	/	Pass
				30	3.7	1.759	0.0010	/	Pass
				40	3.7	-7.223	-0.0041	/	Pass
				50	3.7	1.143	0.0007	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band4_OBW

3.1.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.109	/	Pass
		1732.5	6	0	1.104	/	Pass
		1754.3	6	0	1.103	/	Pass
	16QAM	1710.7	6	0	1.099	/	Pass
		1732.5	6	0	1.106	/	Pass
		1754.3	6	0	1.101	/	Pass
3	QPSK	1711.5	15	0	2.729	/	Pass
		1732.5	15	0	2.745	/	Pass
		1753.5	15	0	2.745	/	Pass
	16QAM	1711.5	15	0	2.736	/	Pass
		1732.5	15	0	2.737	/	Pass
		1753.5	15	0	2.730	/	Pass
5	QPSK	1712.5	25	0	4.560	/	Pass
		1732.5	25	0	4.541	/	Pass
		1752.5	25	0	4.553	/	Pass
	16QAM	1712.5	25	0	4.563	/	Pass
		1732.5	25	0	4.575	/	Pass
		1752.5	25	0	4.578	/	Pass
10	QPSK	1715	50	0	9.067	/	Pass
		1732.5	50	0	9.054	/	Pass
		1750	50	0	9.082	/	Pass
	16QAM	1715	50	0	9.064	/	Pass
		1732.5	50	0	9.052	/	Pass
		1750	50	0	9.055	/	Pass
15	QPSK	1717.5	75	0	13.573	/	Pass
		1732.5	75	0	13.559	/	Pass
		1747.5	75	0	13.585	/	Pass
	16QAM	1717.5	75	0	13.581	/	Pass
		1732.5	75	0	13.562	/	Pass
		1747.5	75	0	13.604	/	Pass
20	QPSK	1720	100	0	18.076	/	Pass
		1732.5	100	0	18.137	/	Pass
		1745	100	0	18.078	/	Pass
	16QAM	1720	100	0	18.087	/	Pass
		1732.5	100	0	18.072	/	Pass
		1745	100	0	18.106	/	Pass



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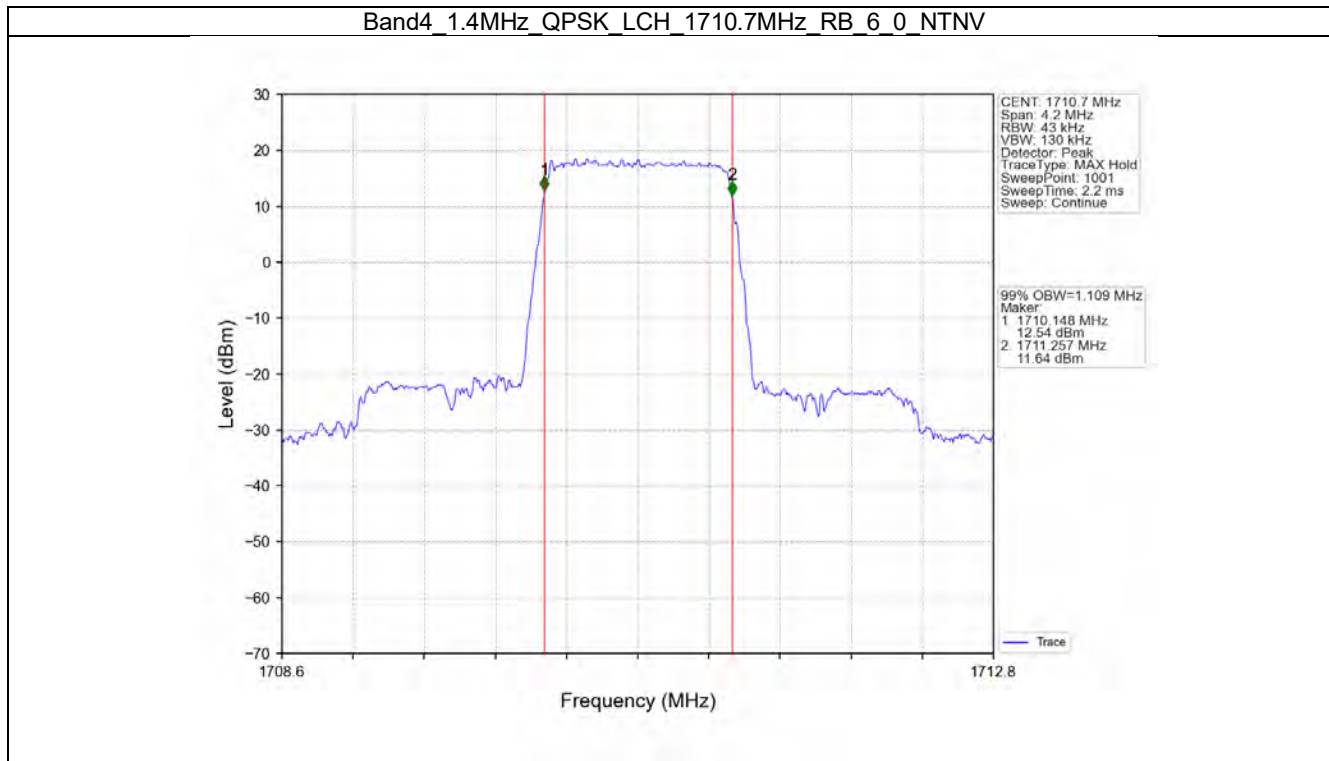
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3.1.2 Test Graph



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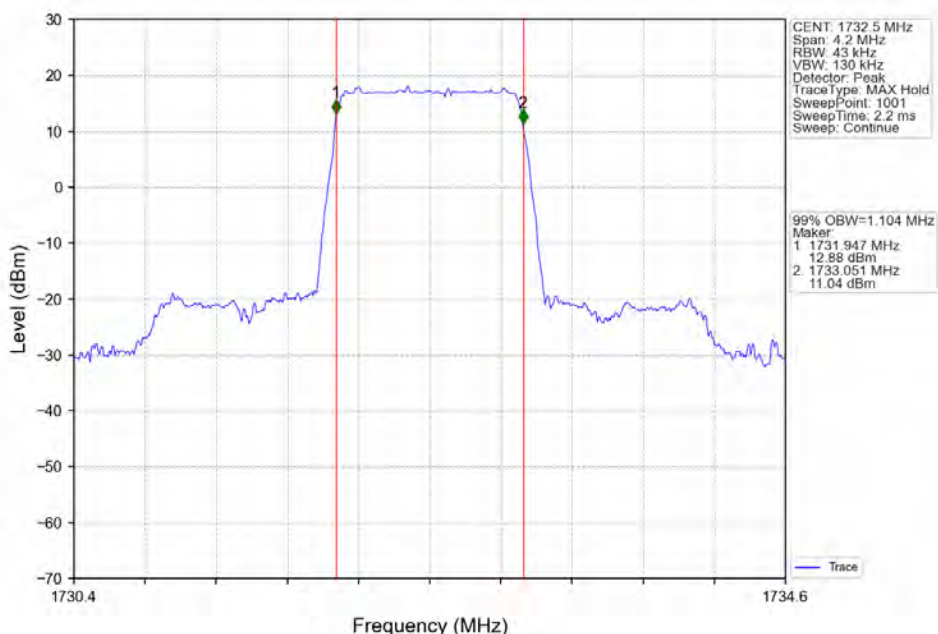
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



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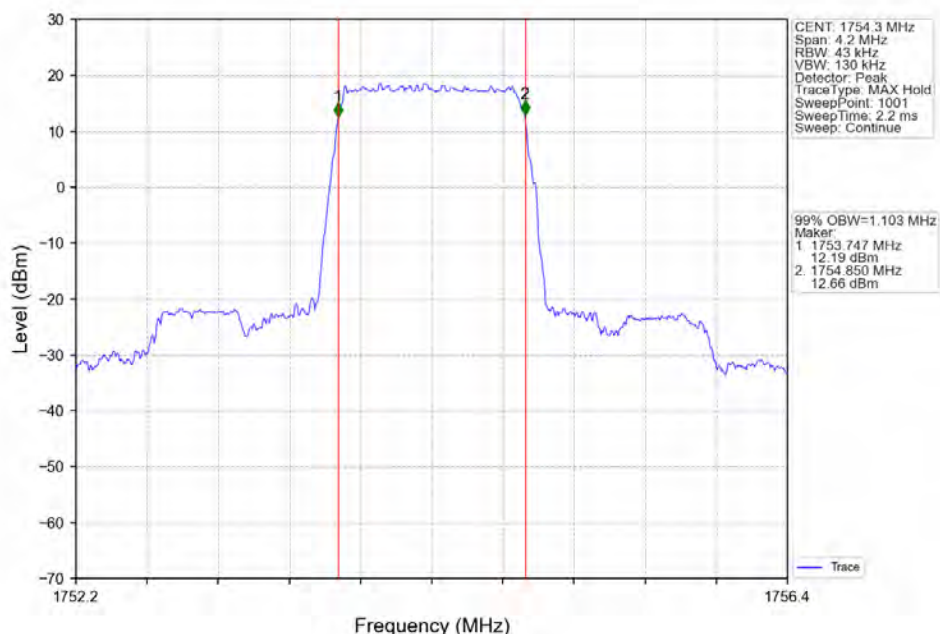
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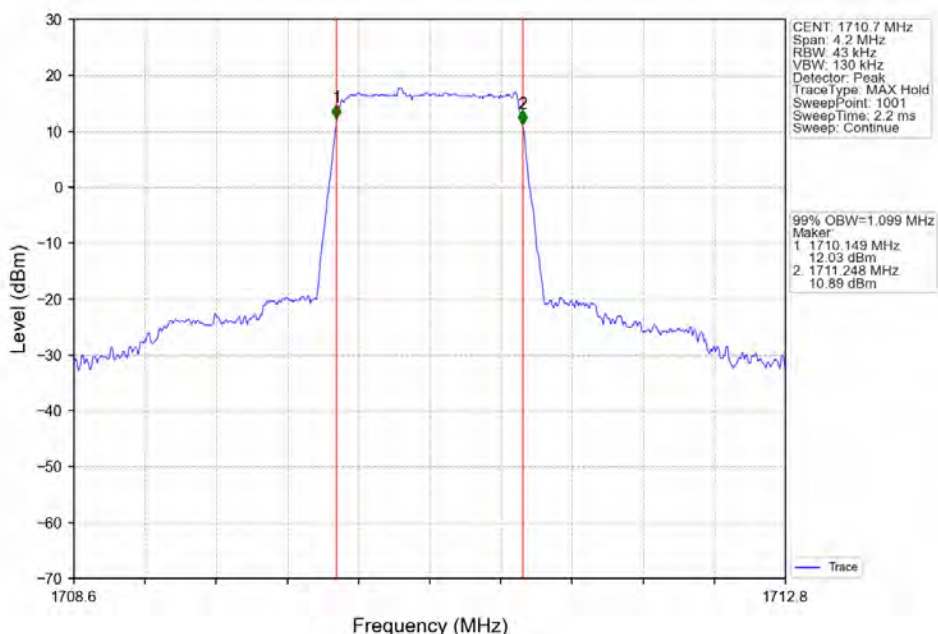
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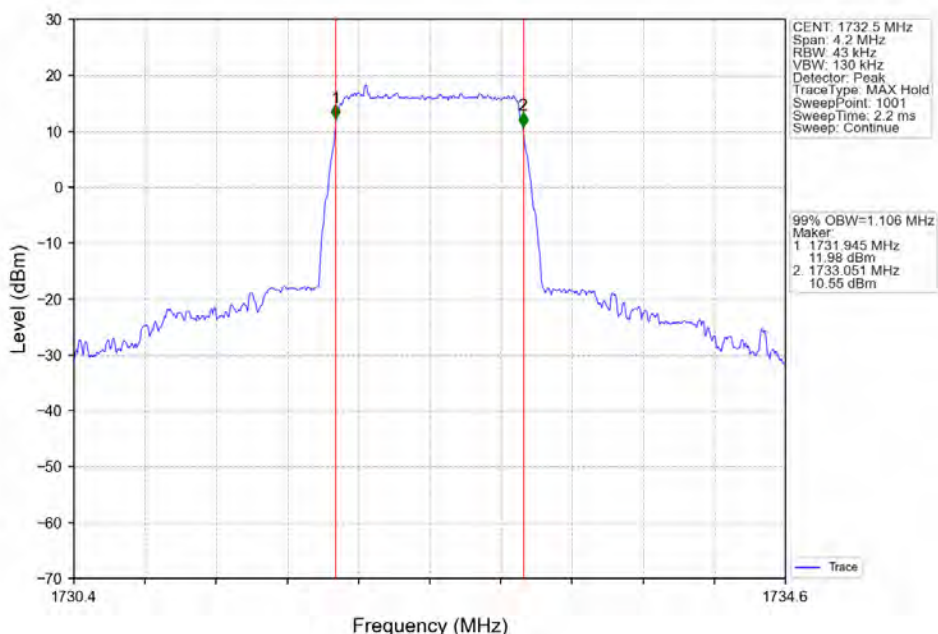
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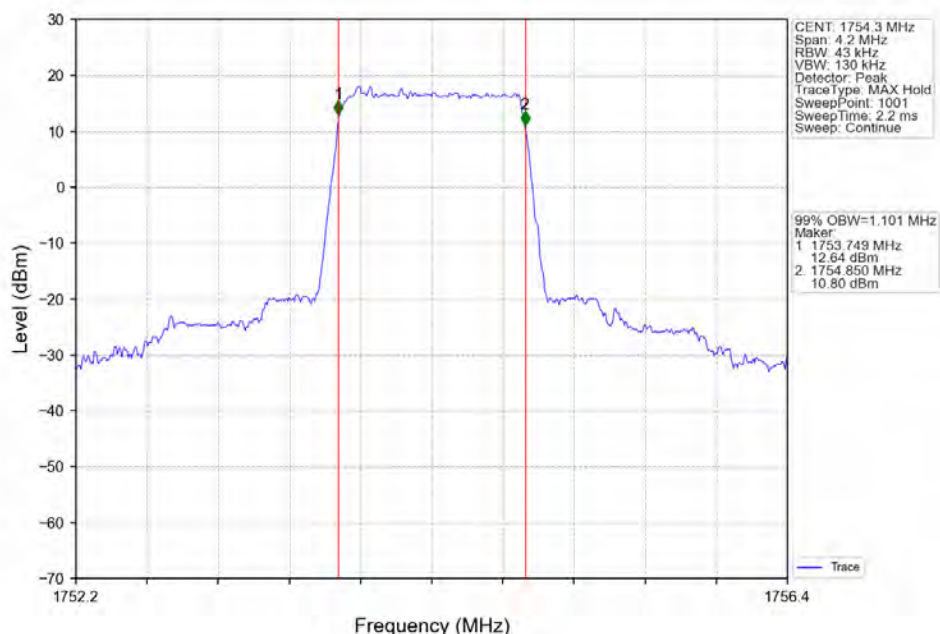
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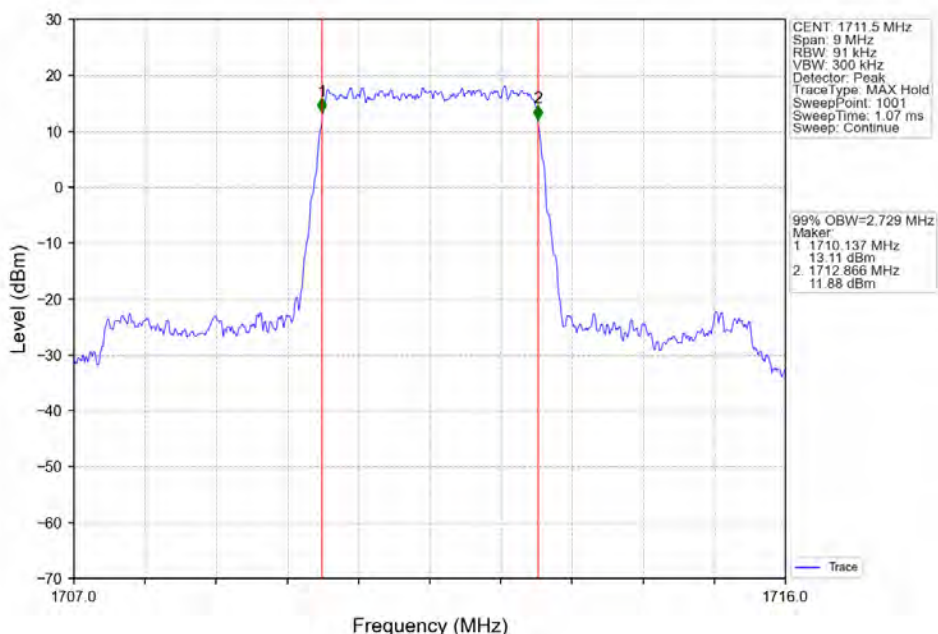
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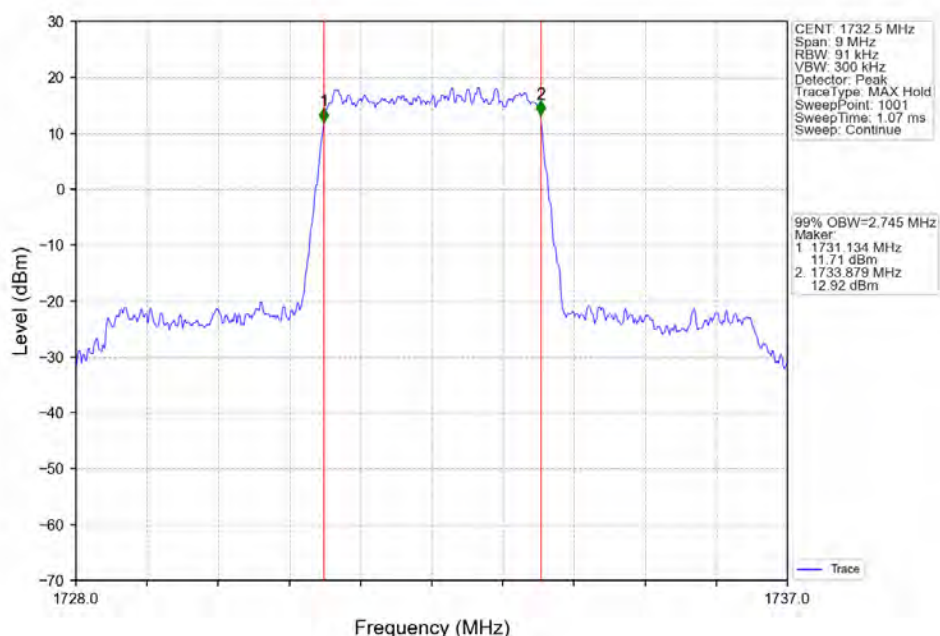
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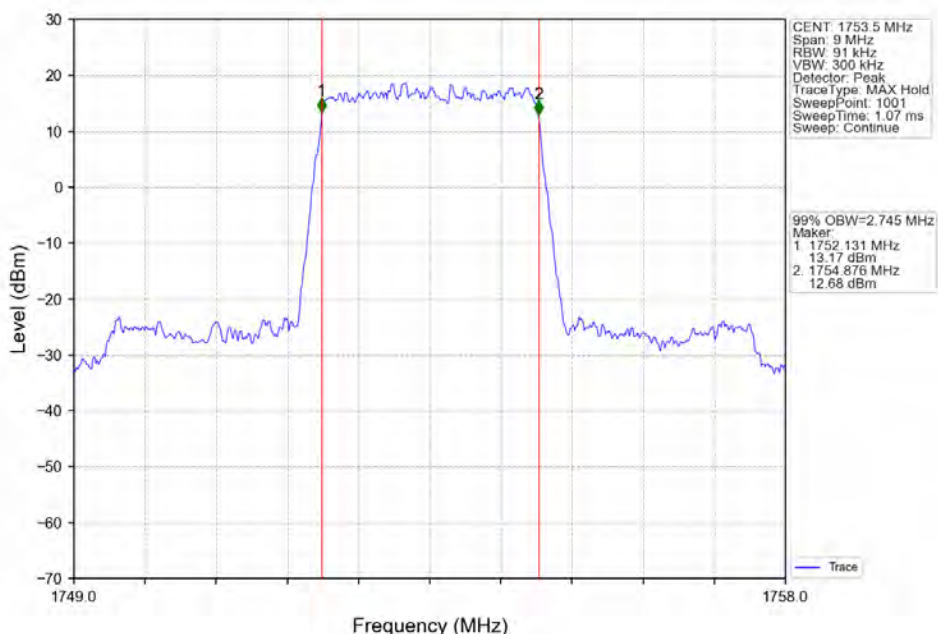
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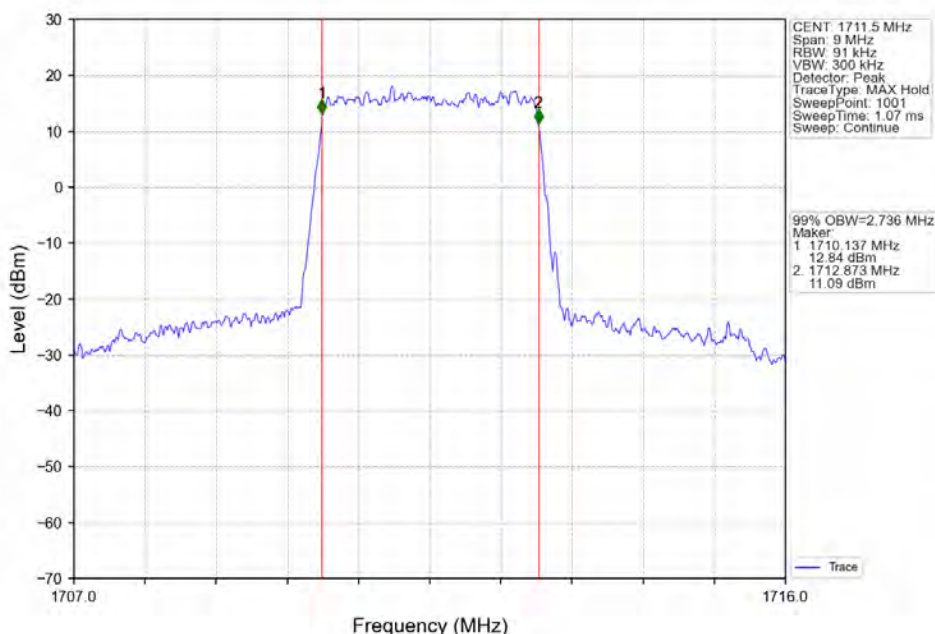
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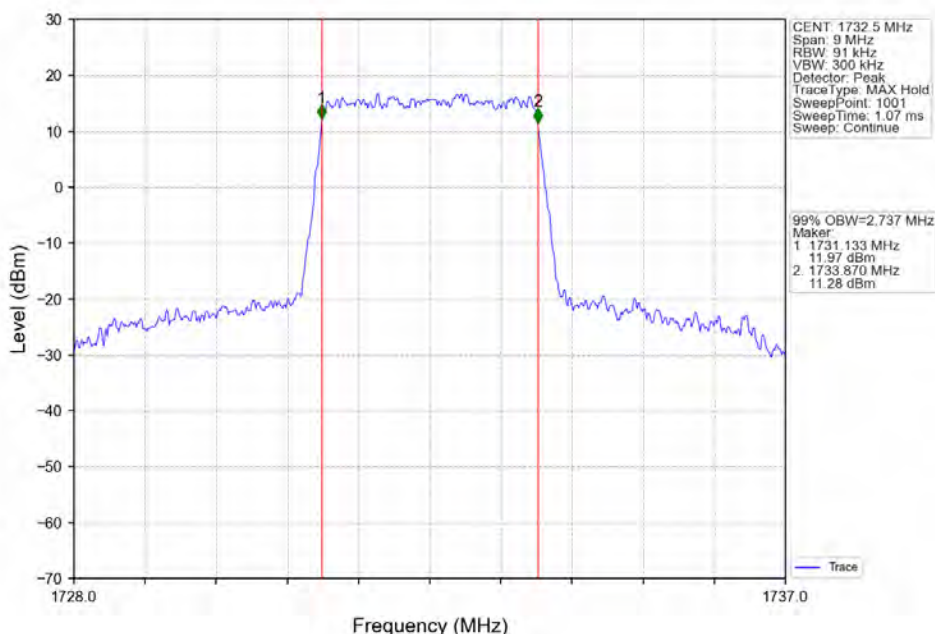
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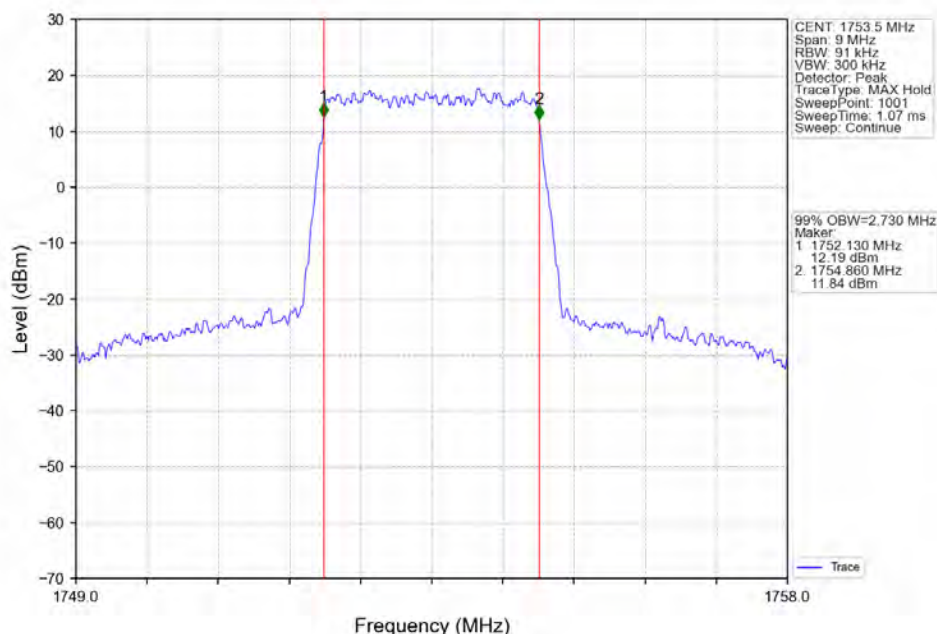
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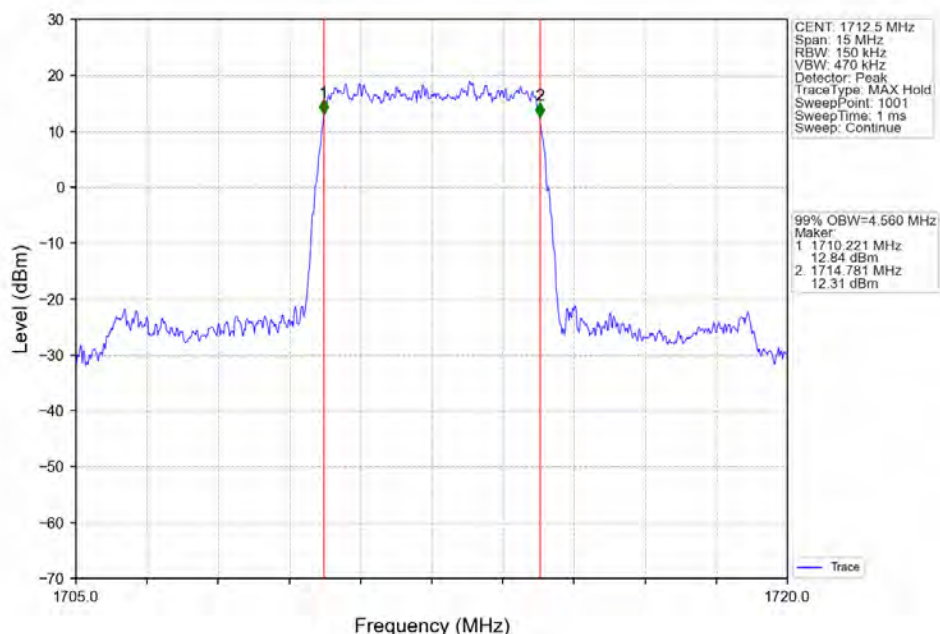
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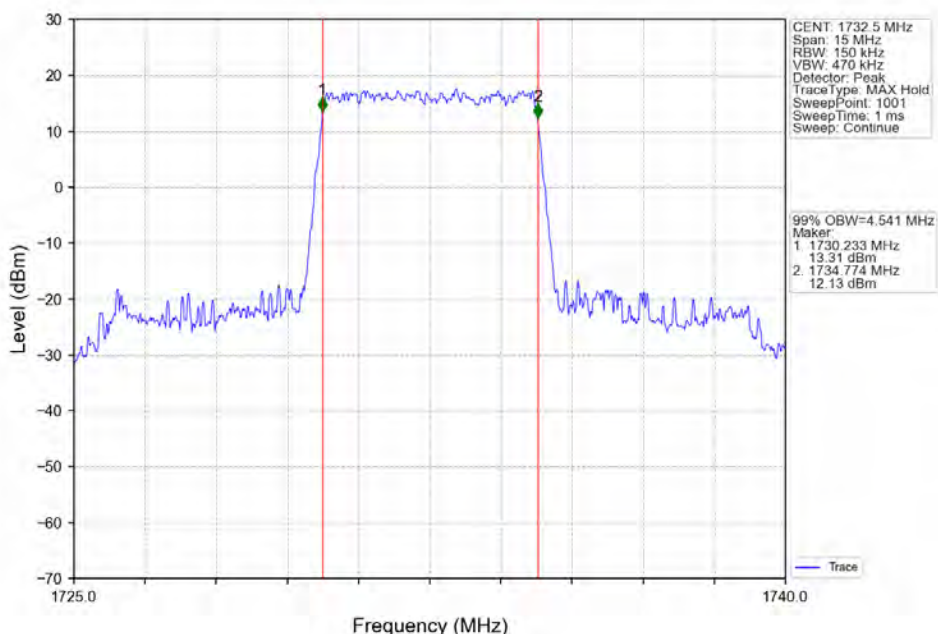
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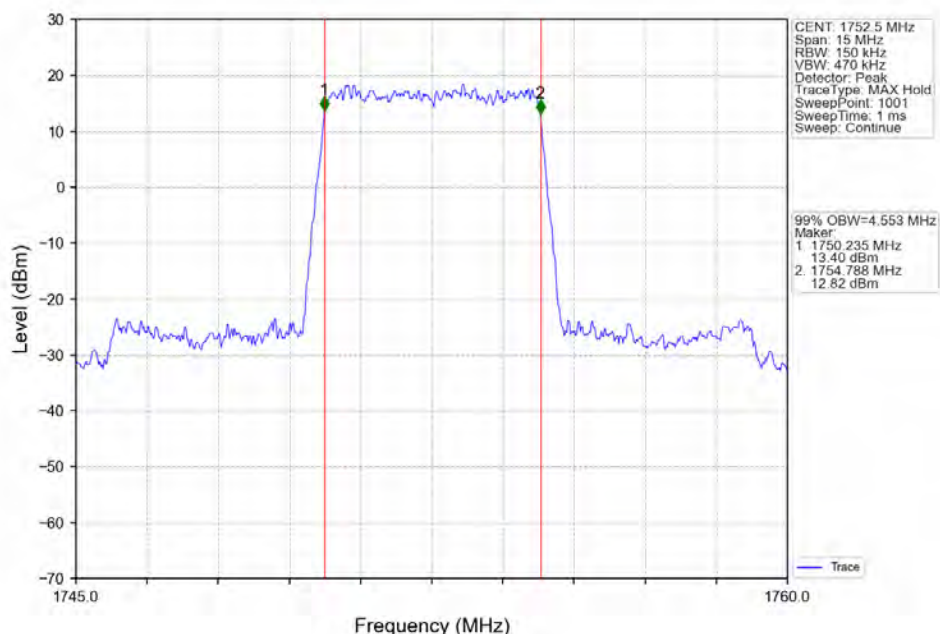
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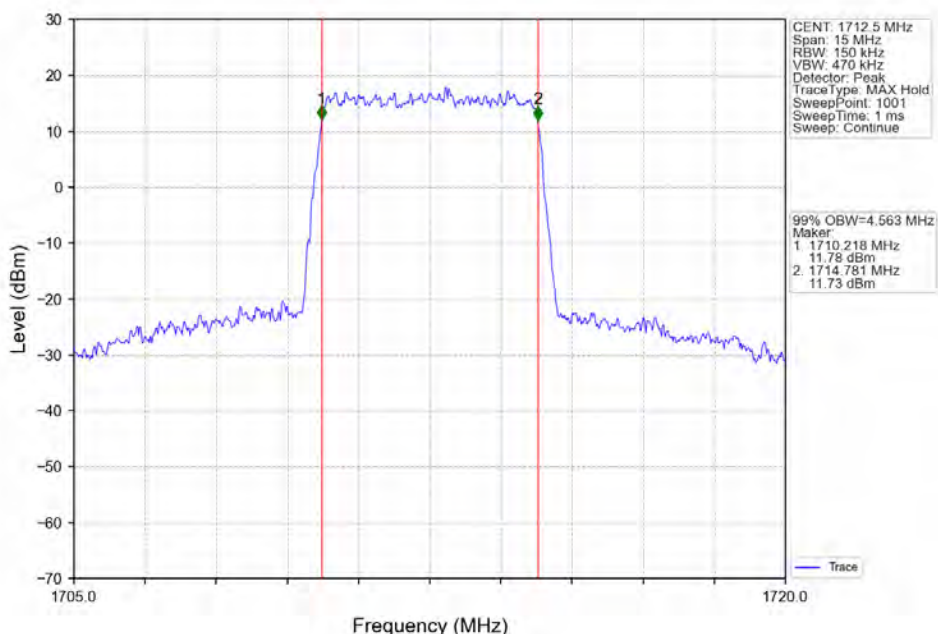
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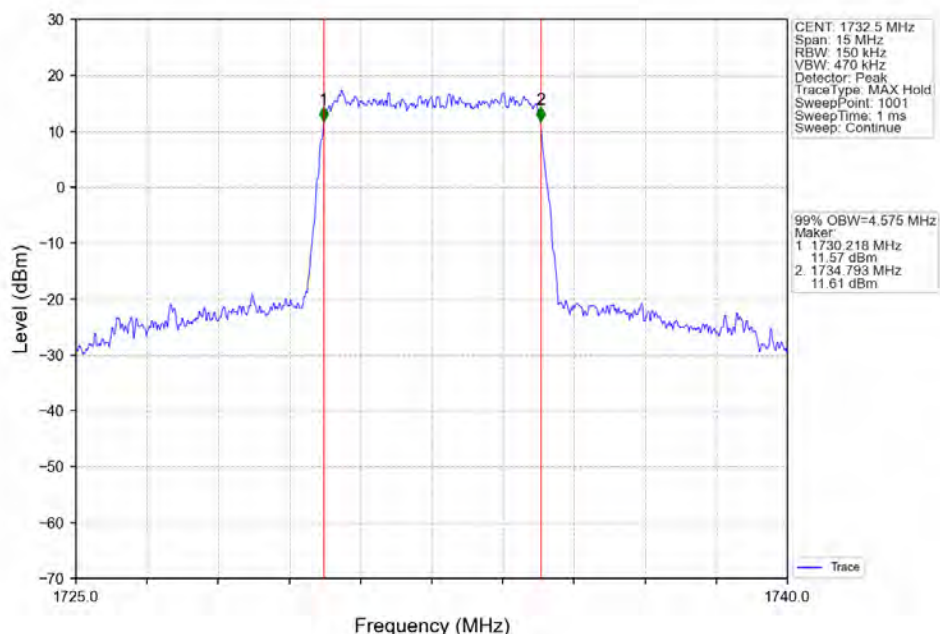
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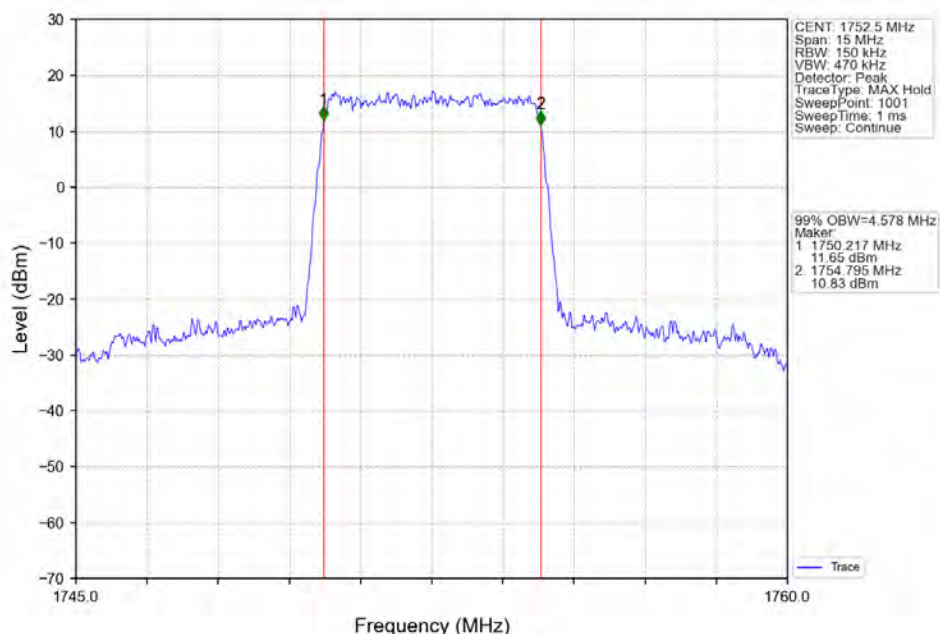
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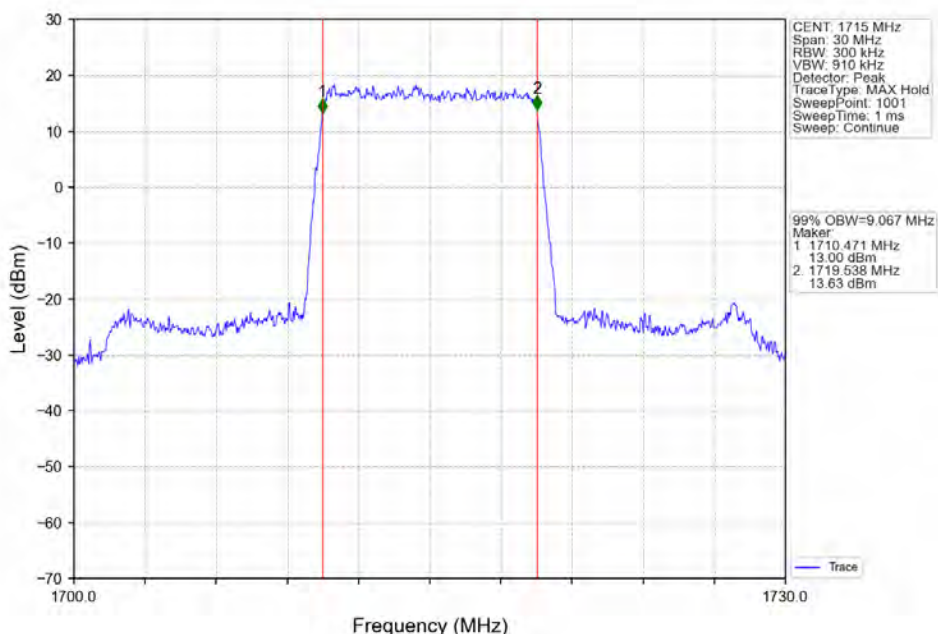
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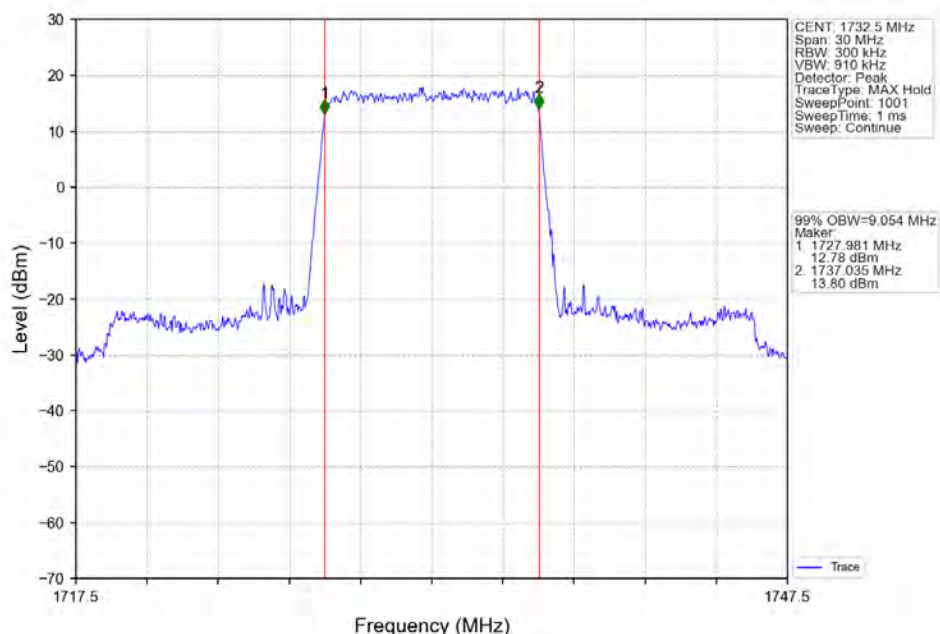
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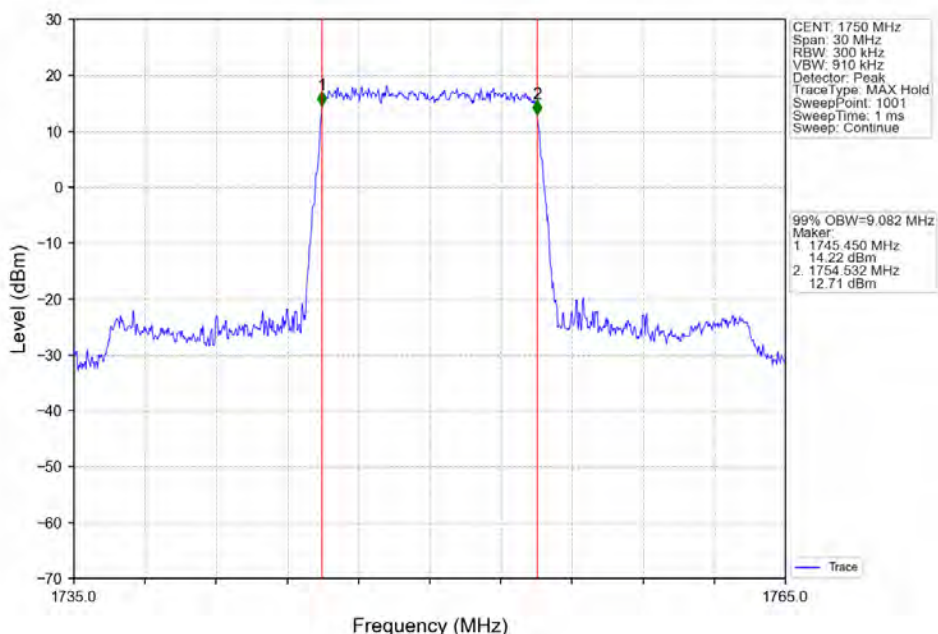
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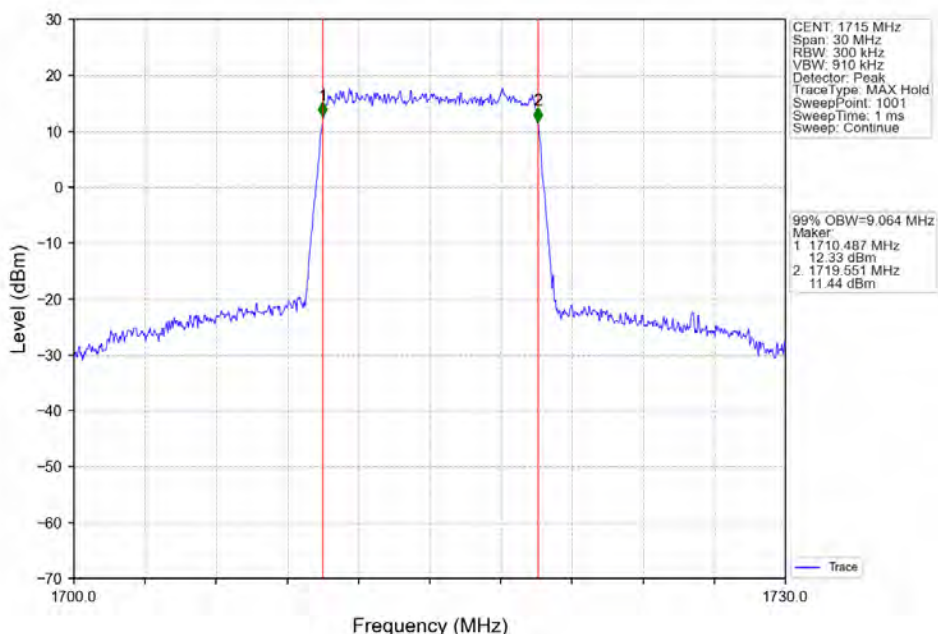
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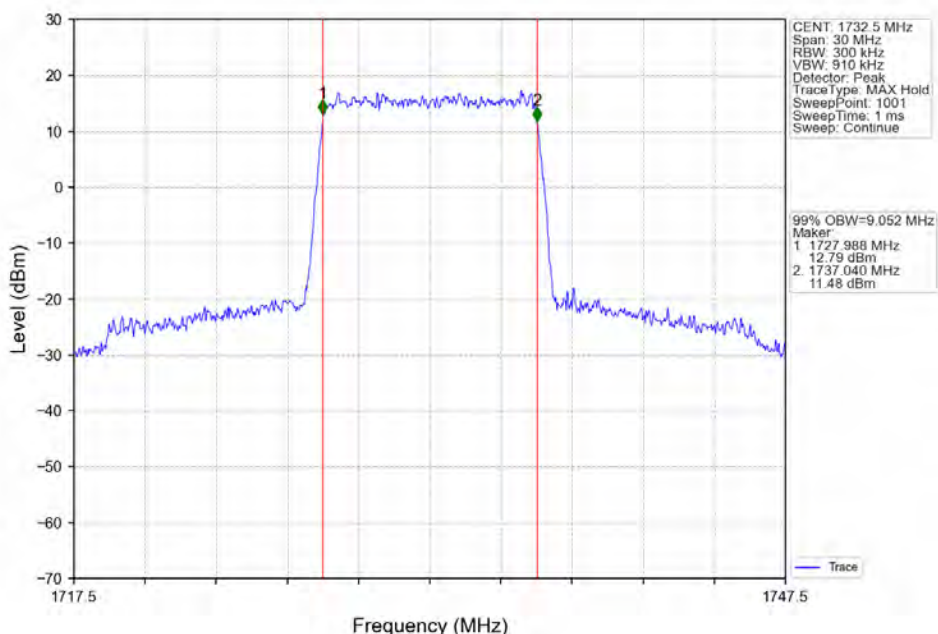
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



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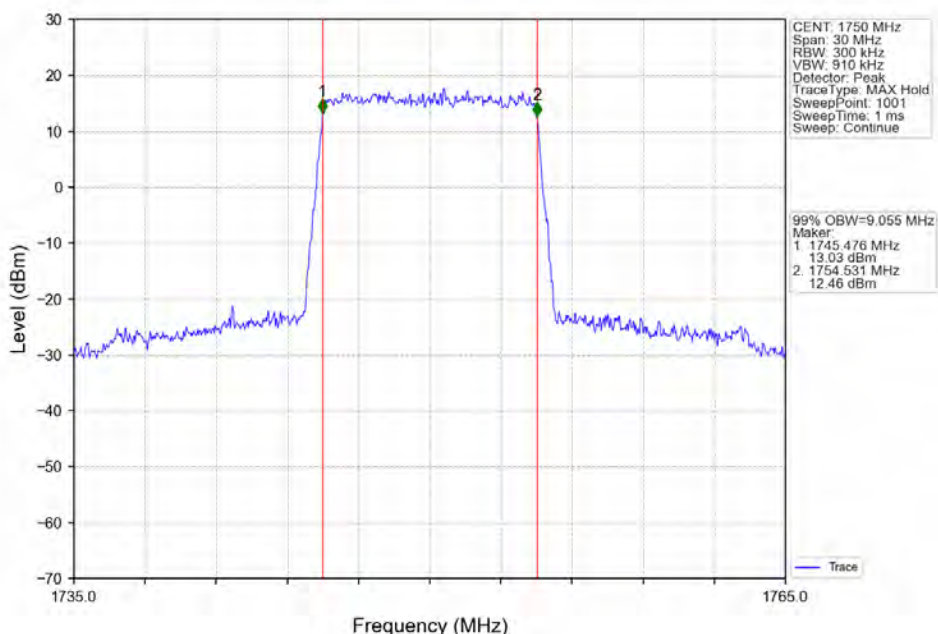
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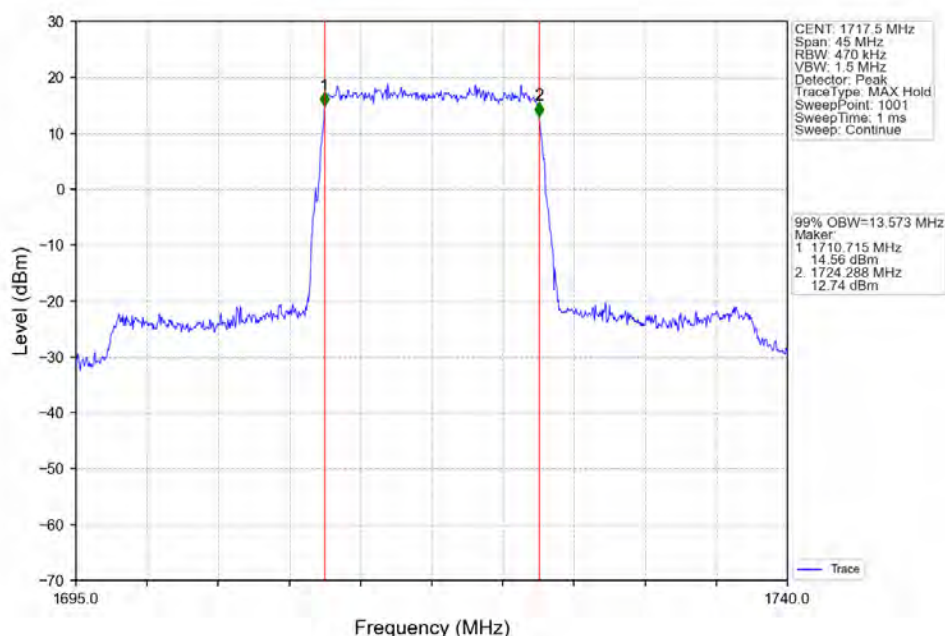
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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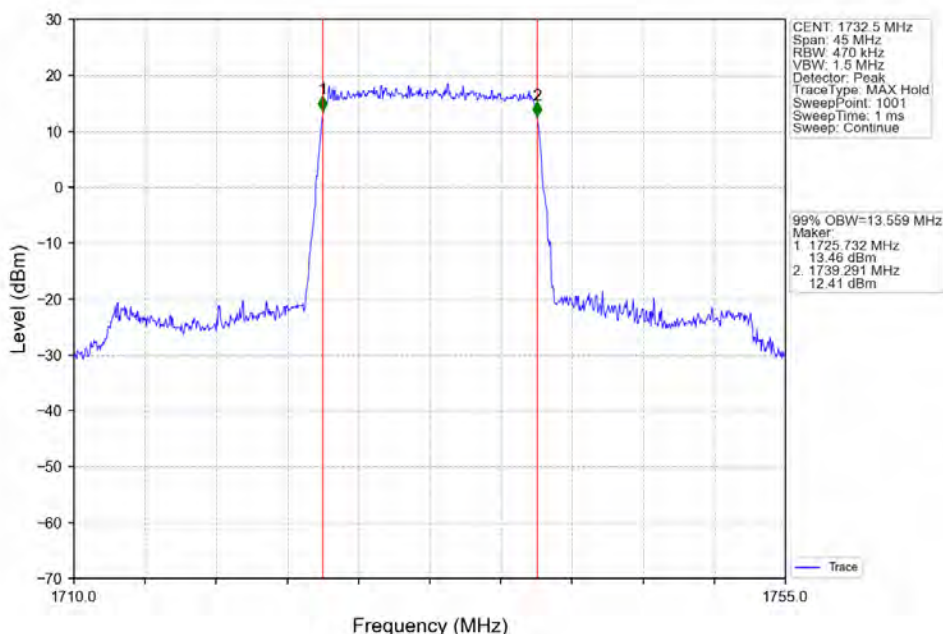
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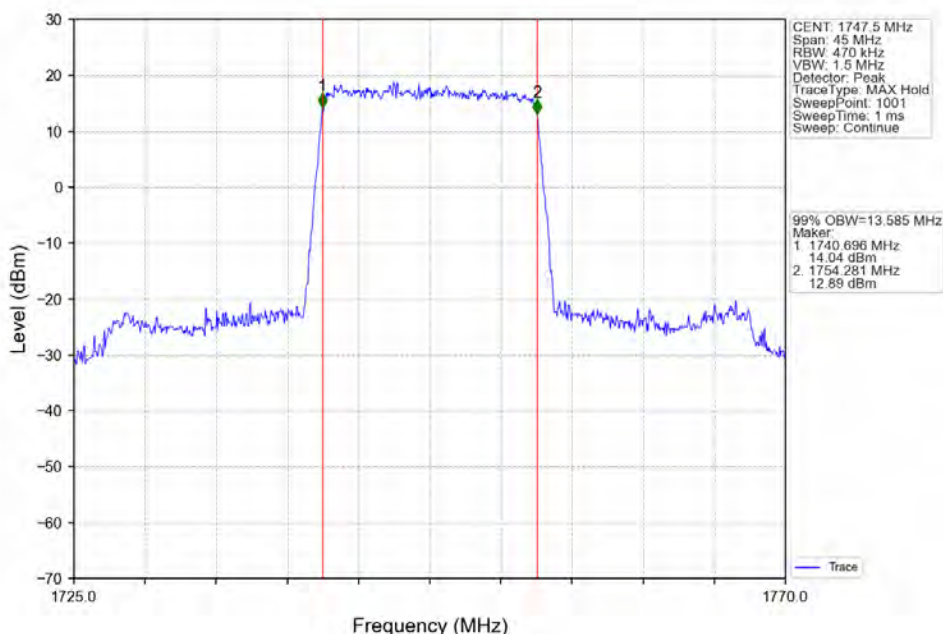
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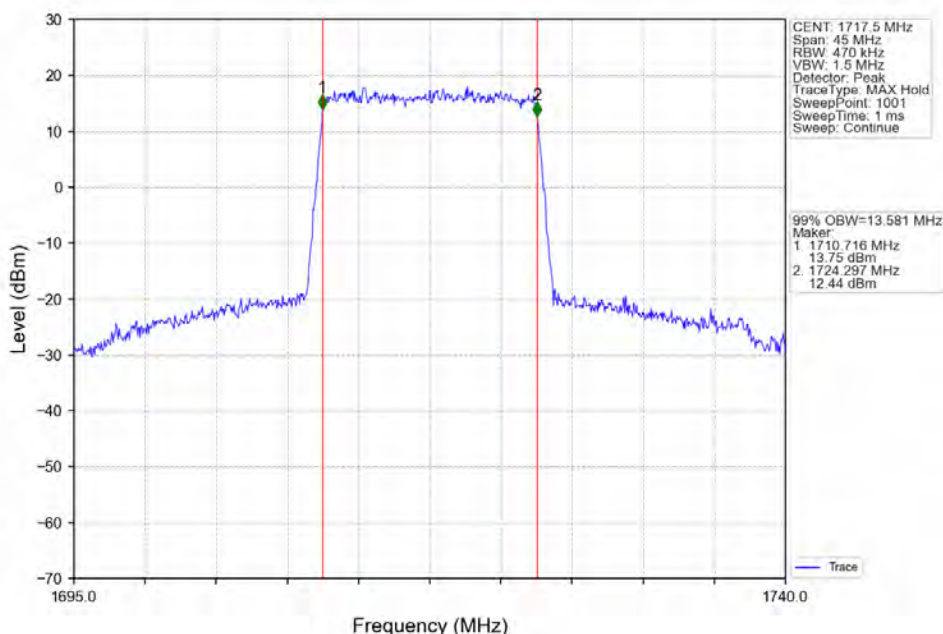
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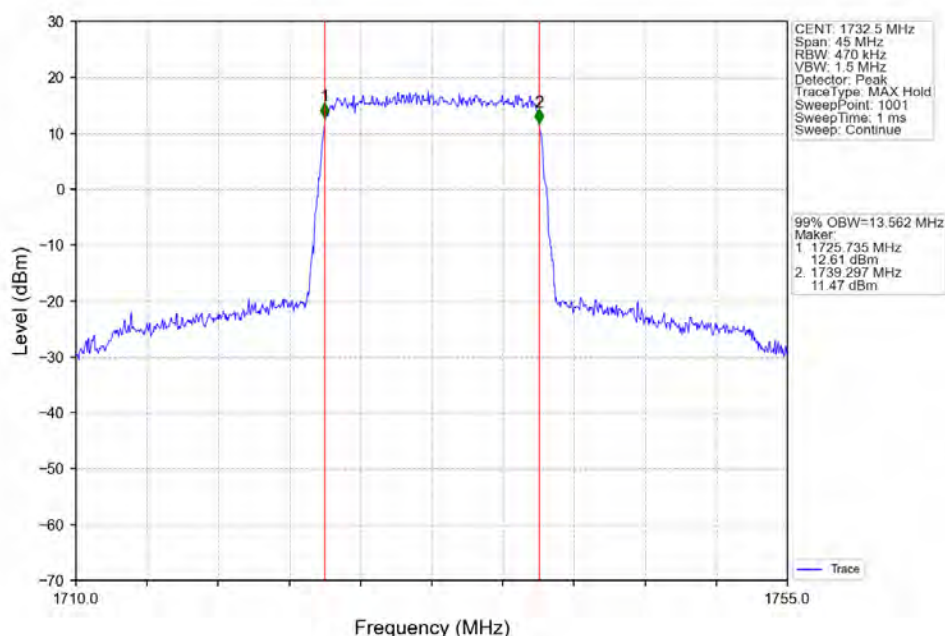
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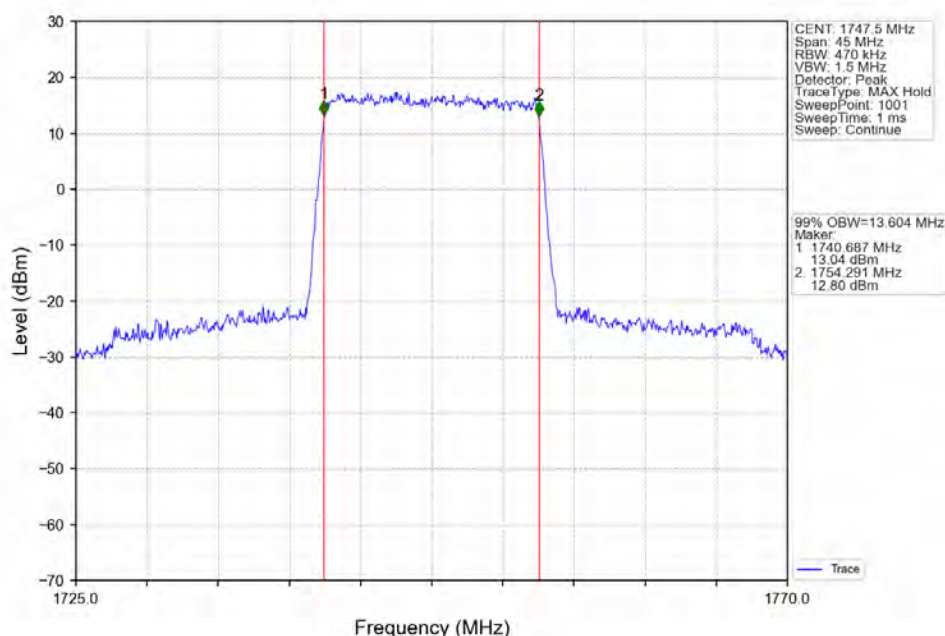
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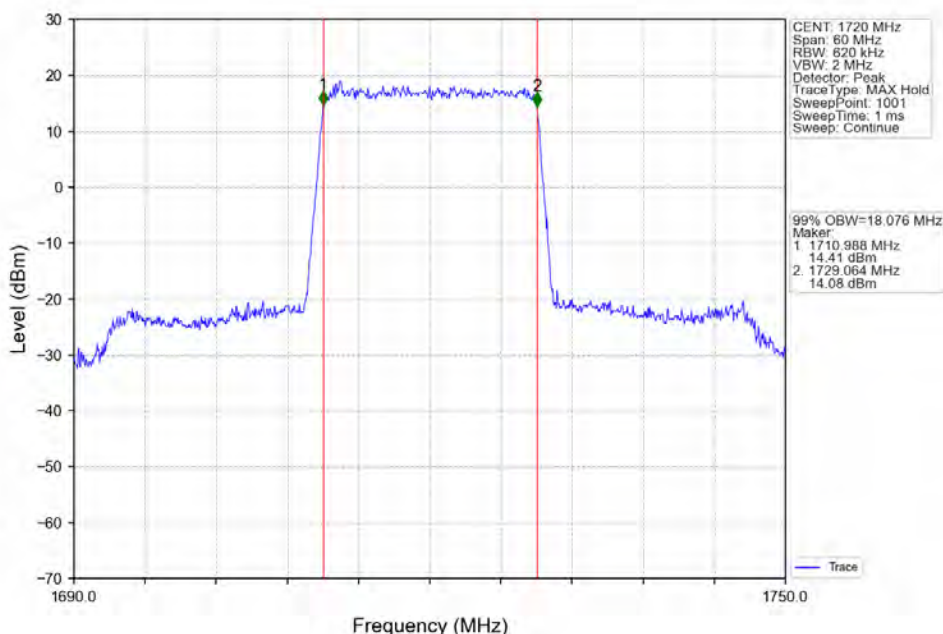
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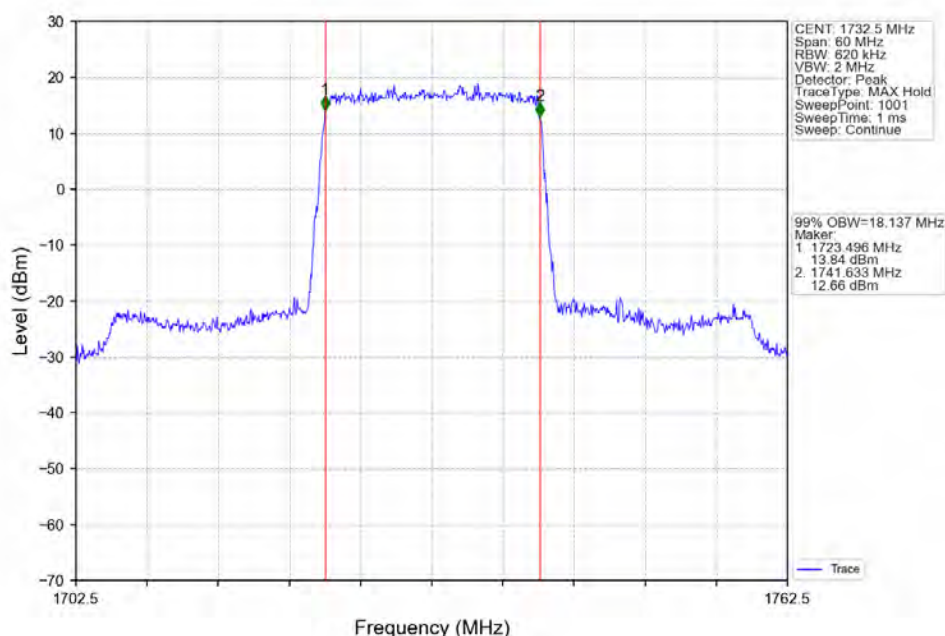
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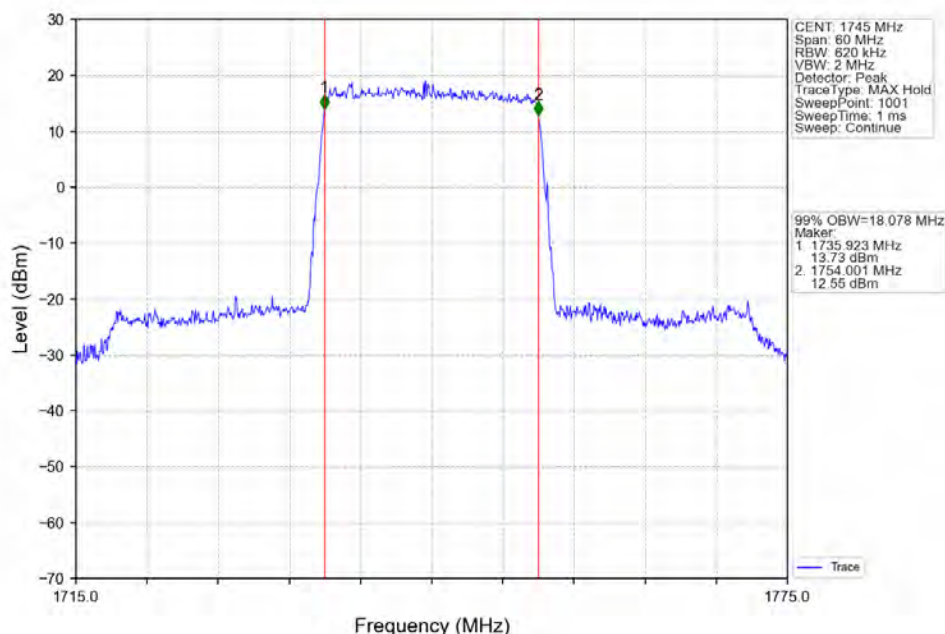
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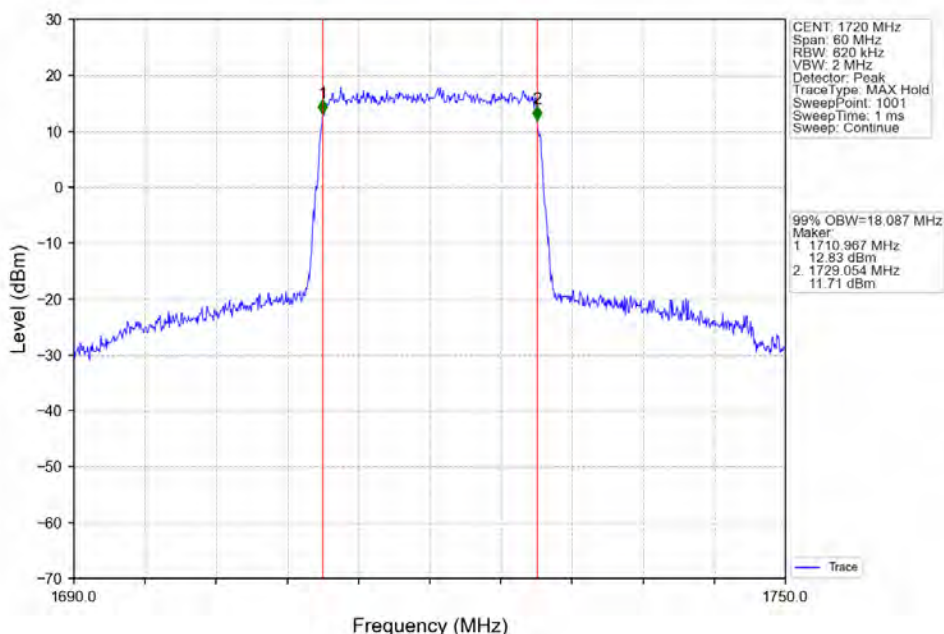
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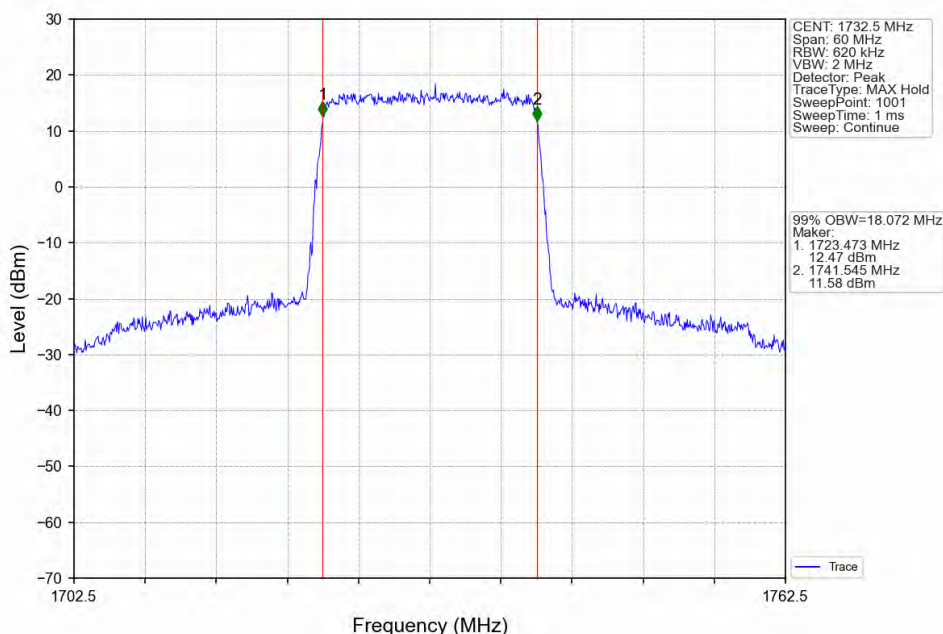
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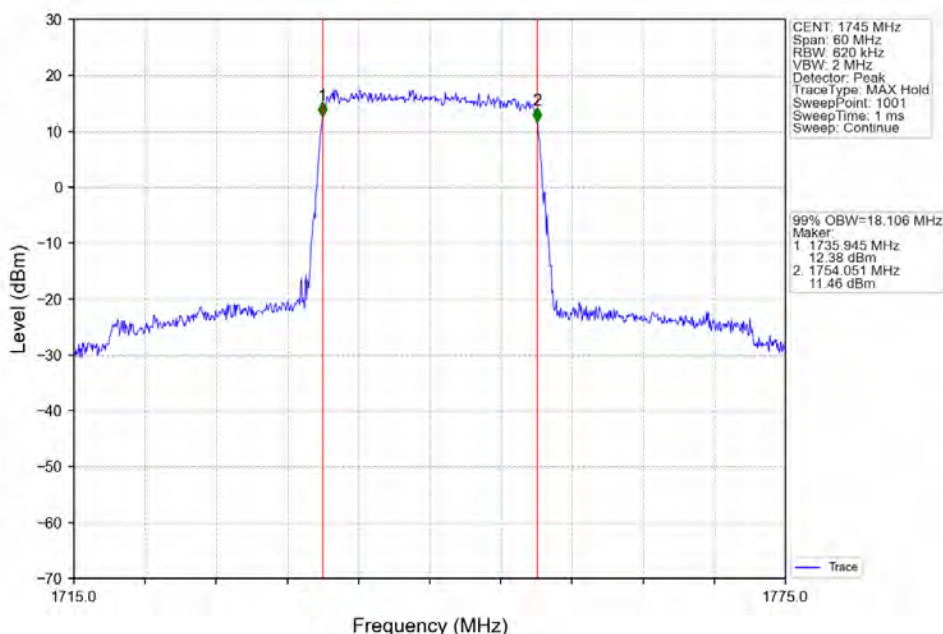
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Band4_20MHz_16QAM_HCH_1745MHz_RB_100_0_NTNV



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3.2 Band4_XDB

3.2.1 Test Result

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.271	/	Pass
		1732.5	6	0	1.266	/	Pass
		1754.3	6	0	1.256	/	Pass
	16QAM	1710.7	6	0	1.251	/	Pass
		1732.5	6	0	1.269	/	Pass
		1754.3	6	0	1.258	/	Pass
3	QPSK	1711.5	15	0	3.066	/	Pass
		1732.5	15	0	3.063	/	Pass
		1753.5	15	0	3.071	/	Pass
	16QAM	1711.5	15	0	3.035	/	Pass
		1732.5	15	0	3.080	/	Pass
		1753.5	15	0	3.071	/	Pass
5	QPSK	1712.5	25	0	5.076	/	Pass
		1732.5	25	0	5.045	/	Pass
		1752.5	25	0	5.075	/	Pass
	16QAM	1712.5	25	0	5.038	/	Pass
		1732.5	25	0	5.043	/	Pass
		1752.5	25	0	5.049	/	Pass
10	QPSK	1715	50	0	10.034	/	Pass
		1732.5	50	0	10.046	/	Pass
		1750	50	0	10.020	/	Pass
	16QAM	1715	50	0	9.981	/	Pass
		1732.5	50	0	9.933	/	Pass
		1750	50	0	9.976	/	Pass
15	QPSK	1717.5	75	0	15.020	/	Pass
		1732.5	75	0	14.848	/	Pass
		1747.5	75	0	14.916	/	Pass
	16QAM	1717.5	75	0	14.825	/	Pass
		1732.5	75	0	14.855	/	Pass
		1747.5	75	0	14.851	/	Pass
20	QPSK	1720	100	0	19.799	/	Pass
		1732.5	100	0	19.765	/	Pass
		1745	100	0	19.858	/	Pass
	16QAM	1720	100	0	19.824	/	Pass
		1732.5	100	0	19.686	/	Pass
		1745	100	0	19.891	/	Pass



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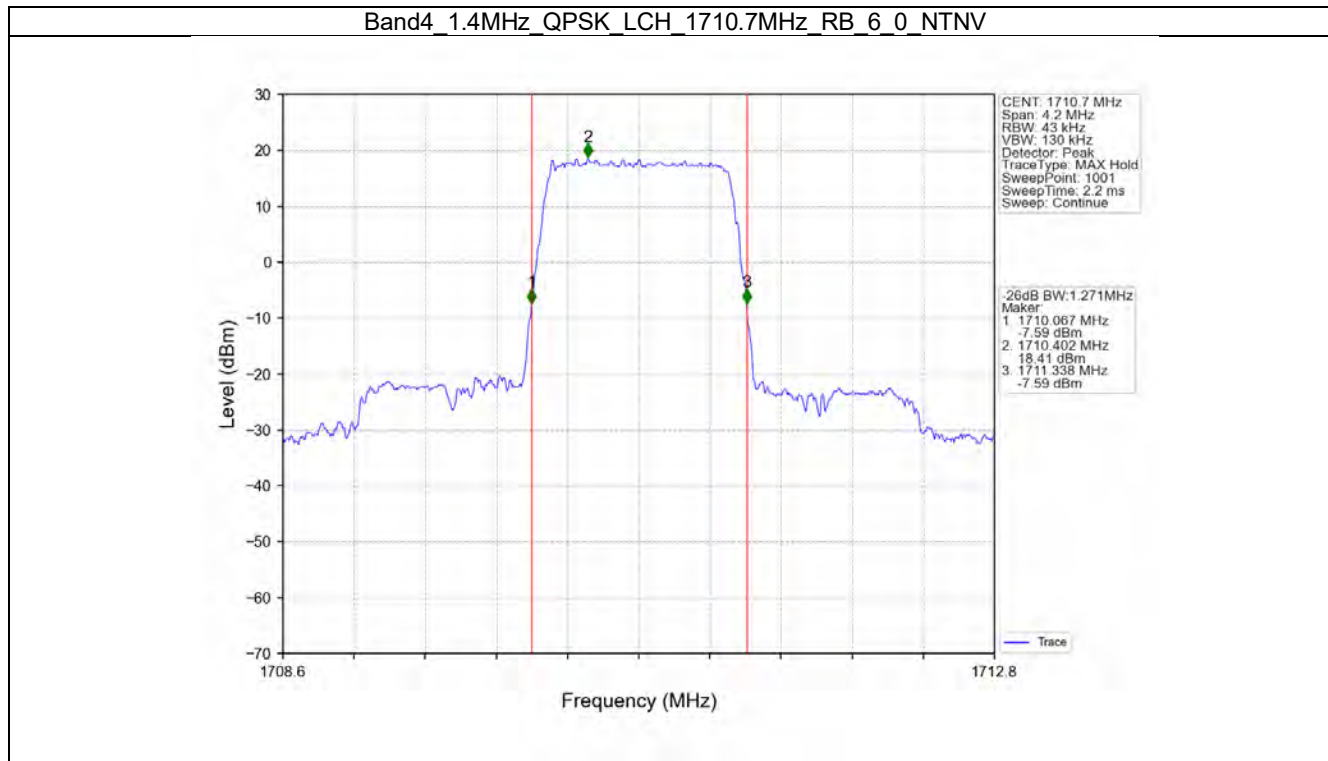
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3.2.2 Test Graph



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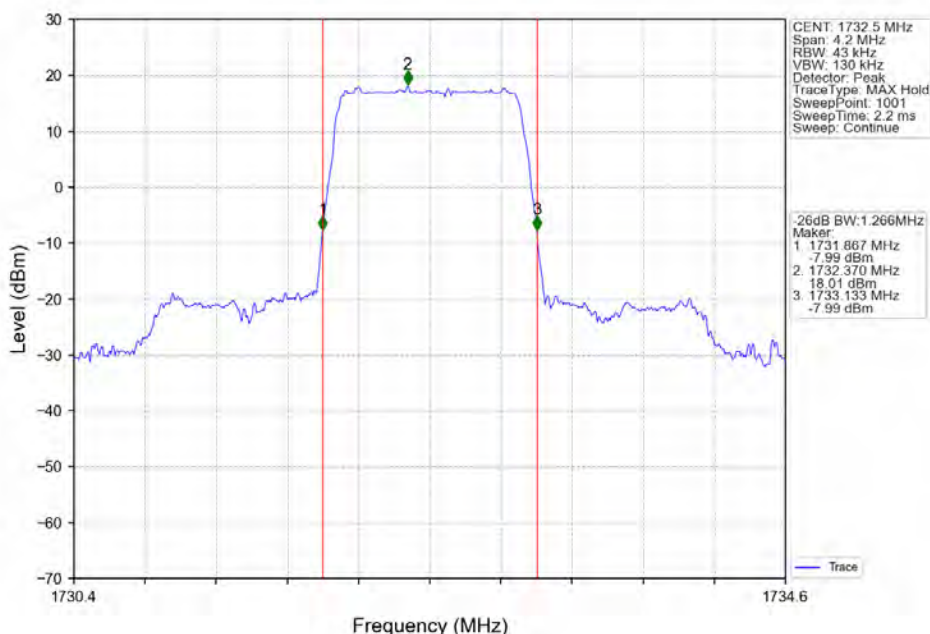
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



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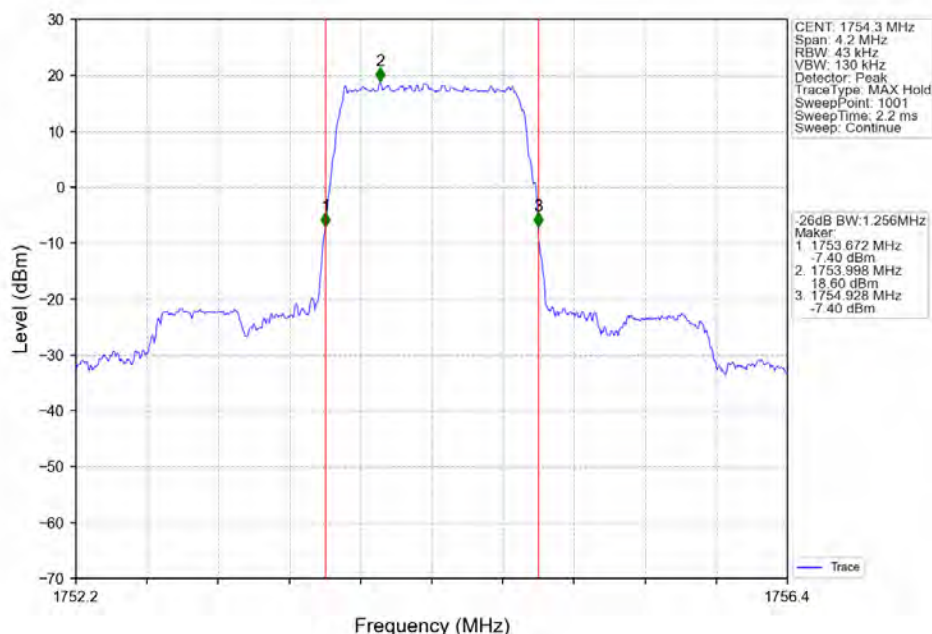
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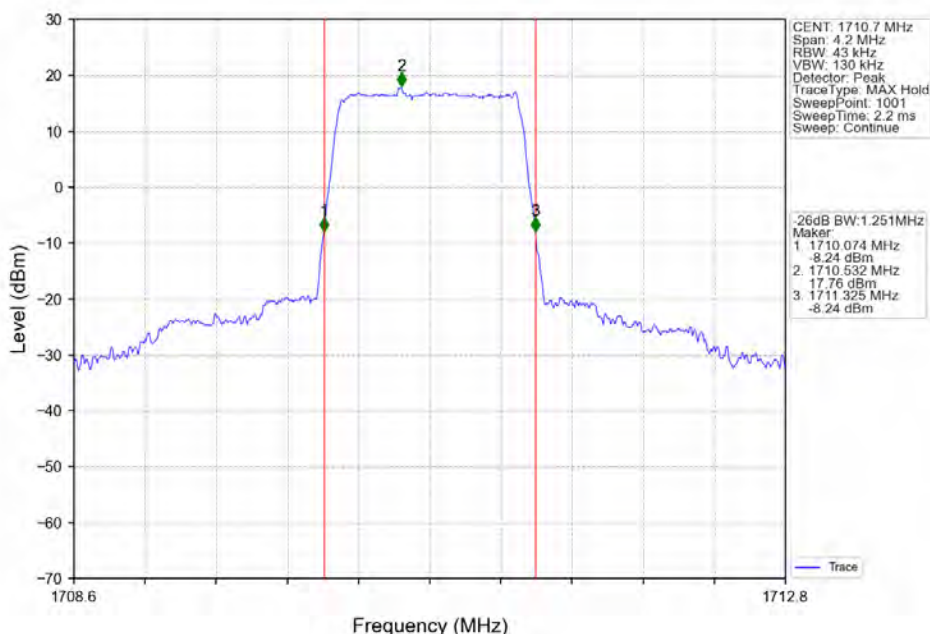
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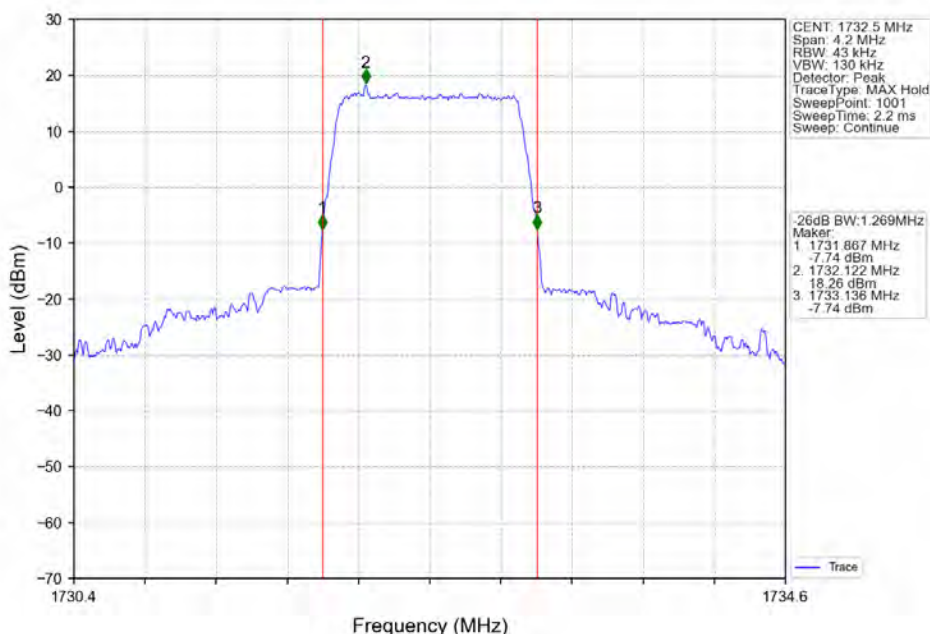
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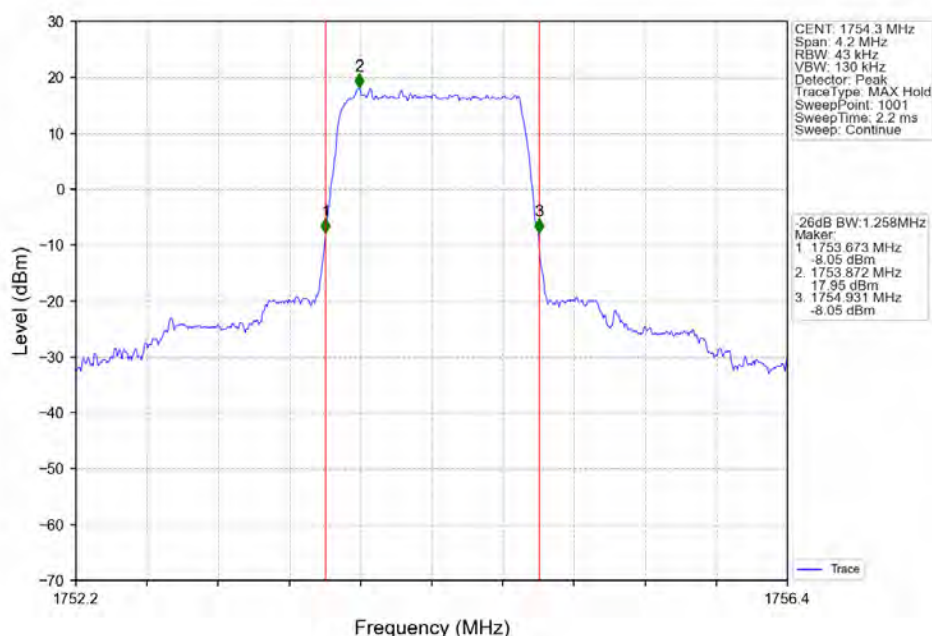
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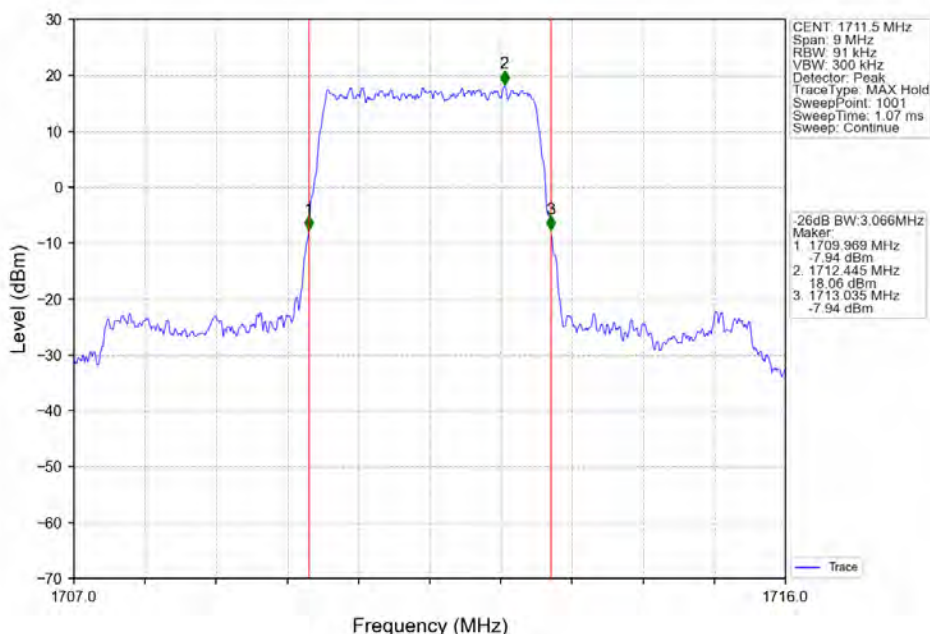
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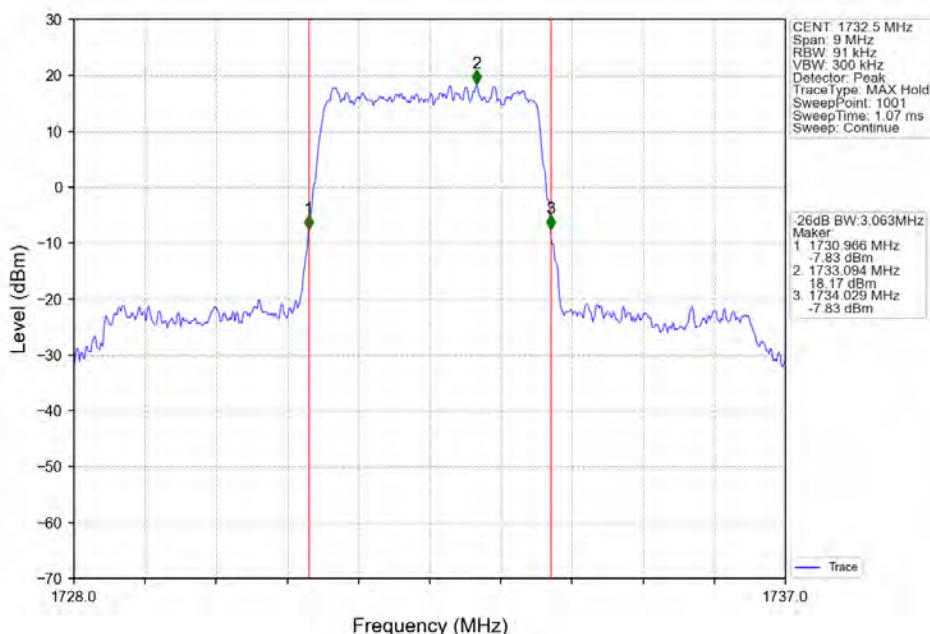
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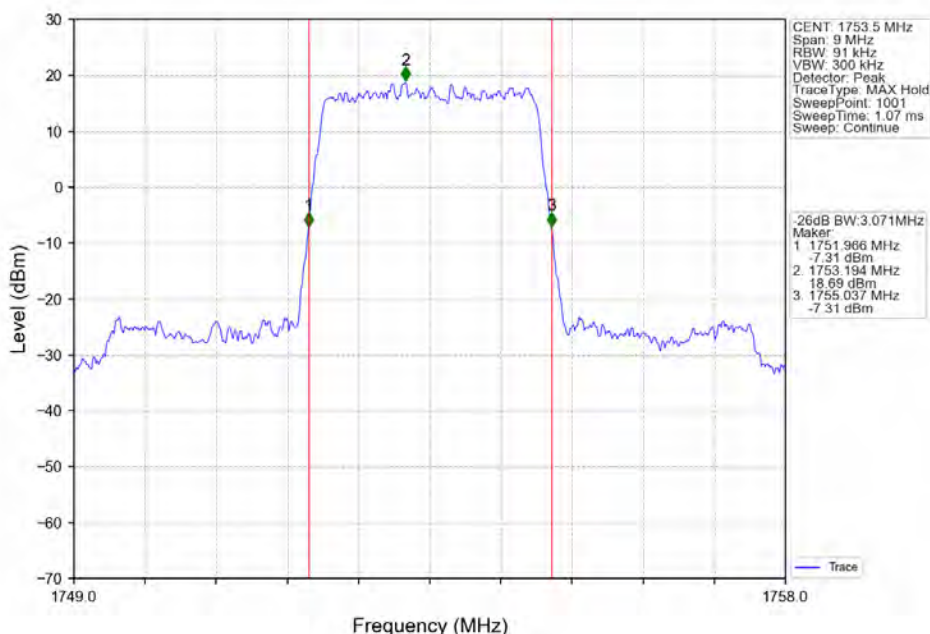
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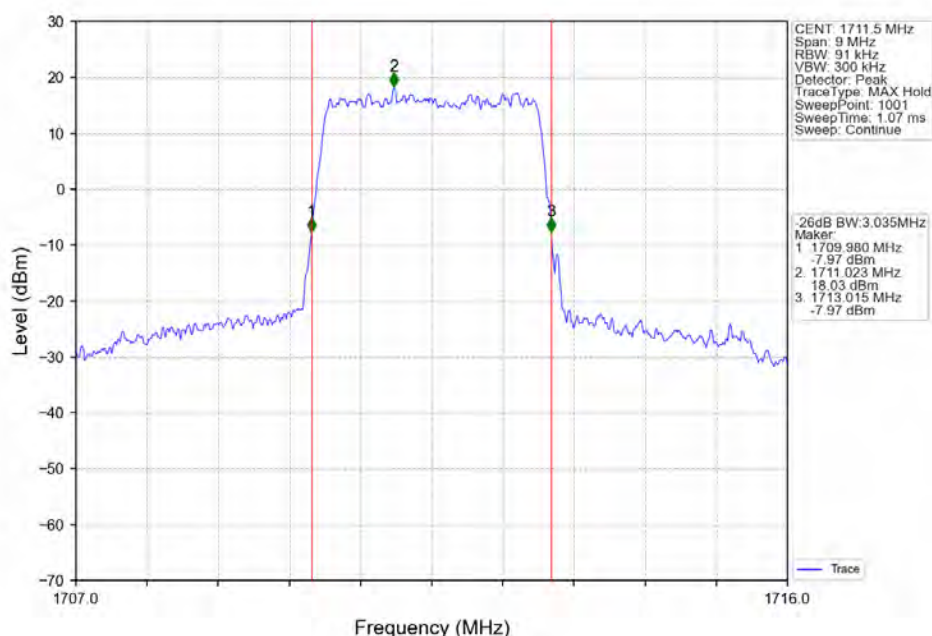
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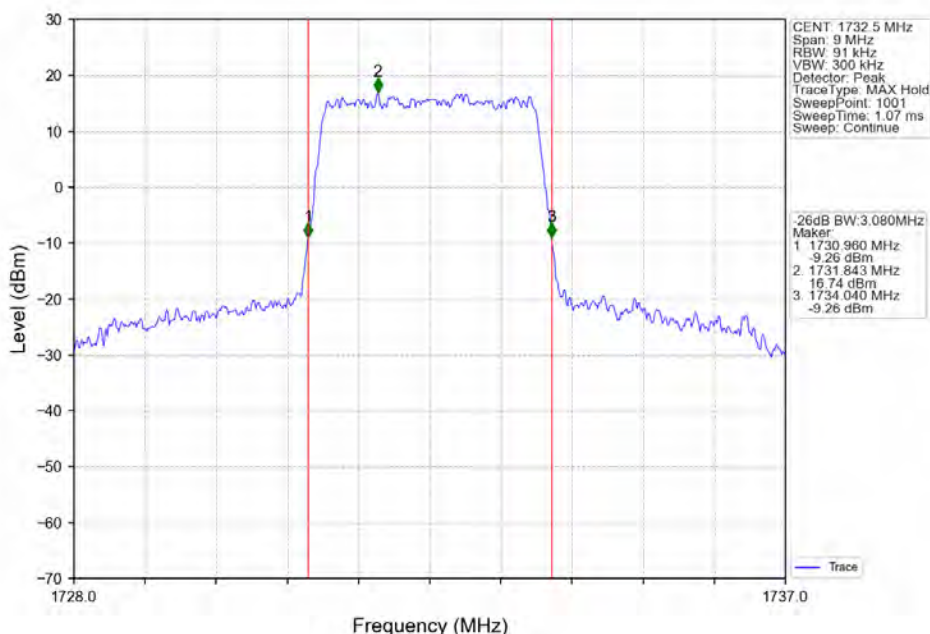
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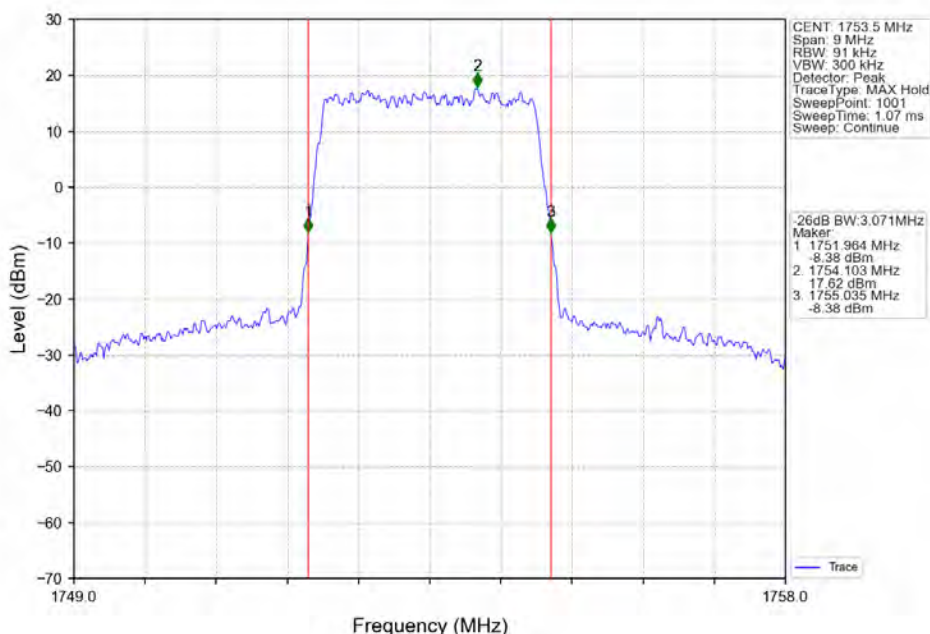
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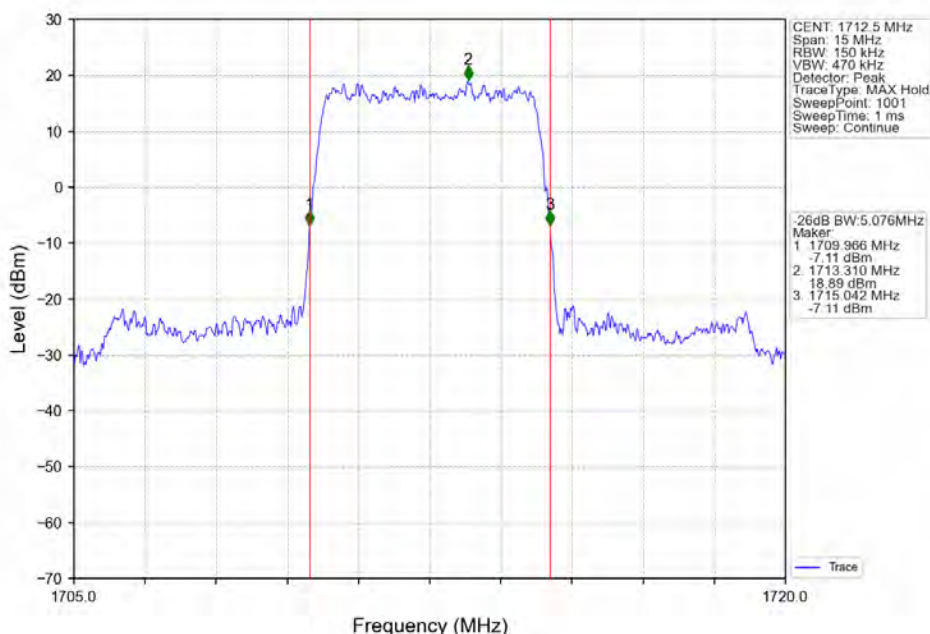
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Band4 5MHz QPSK LCH 1712.5MHz RB 25_0 NTNV



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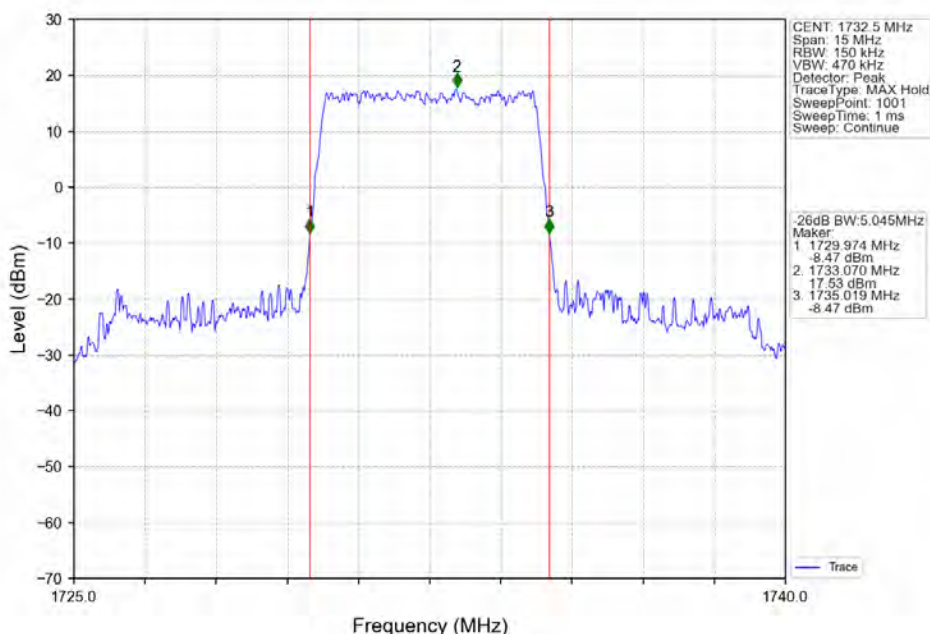
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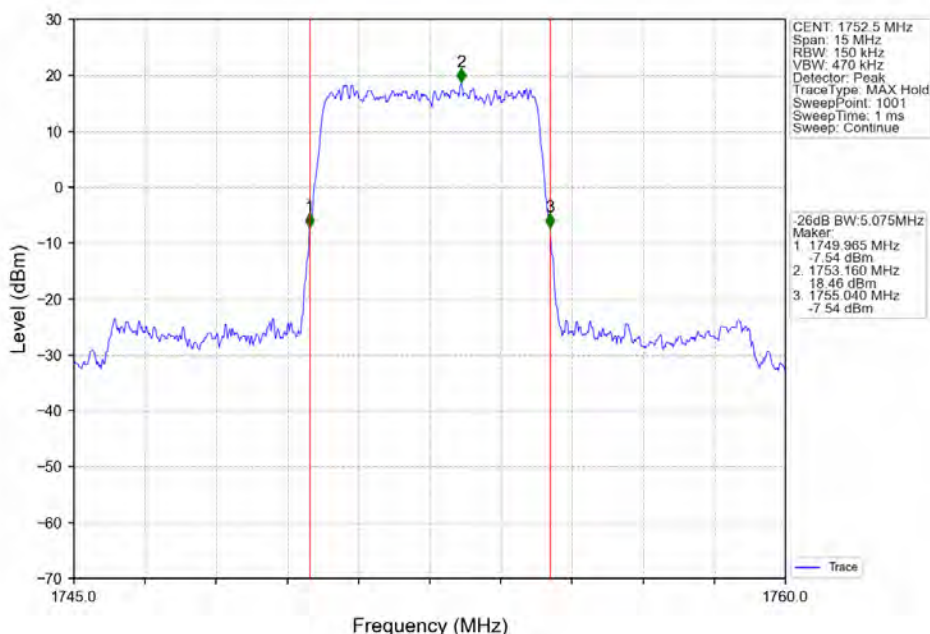
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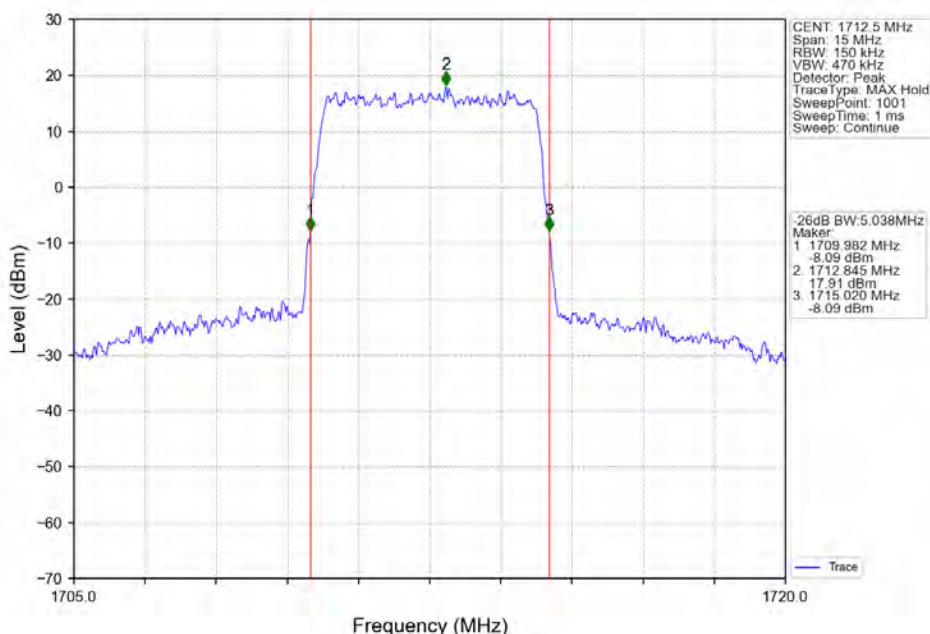
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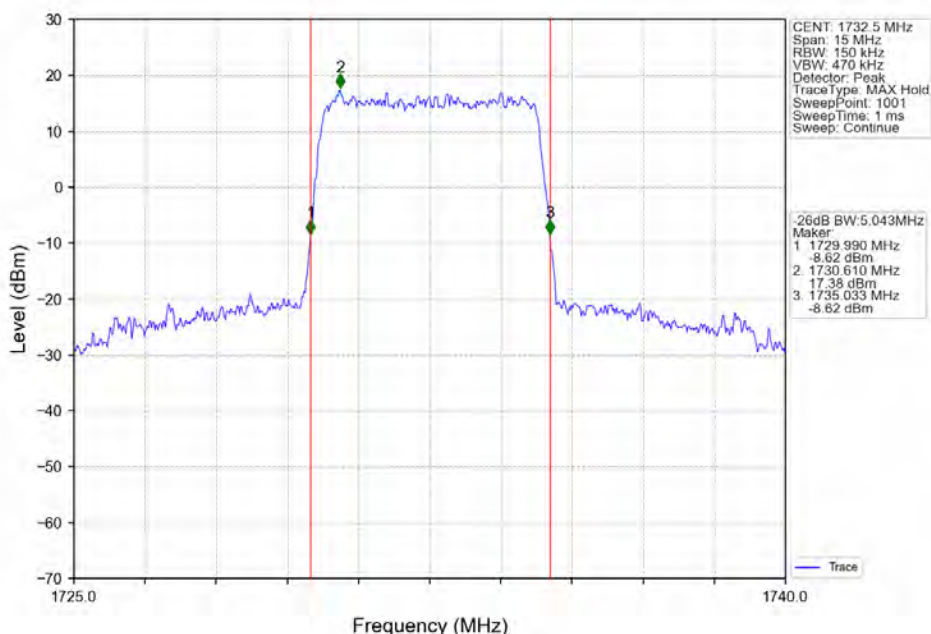
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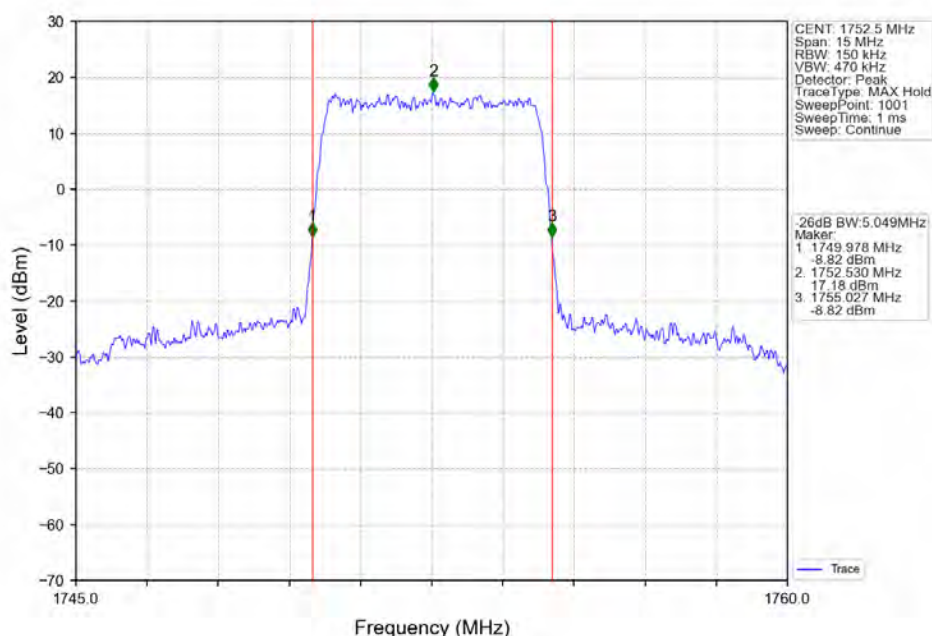
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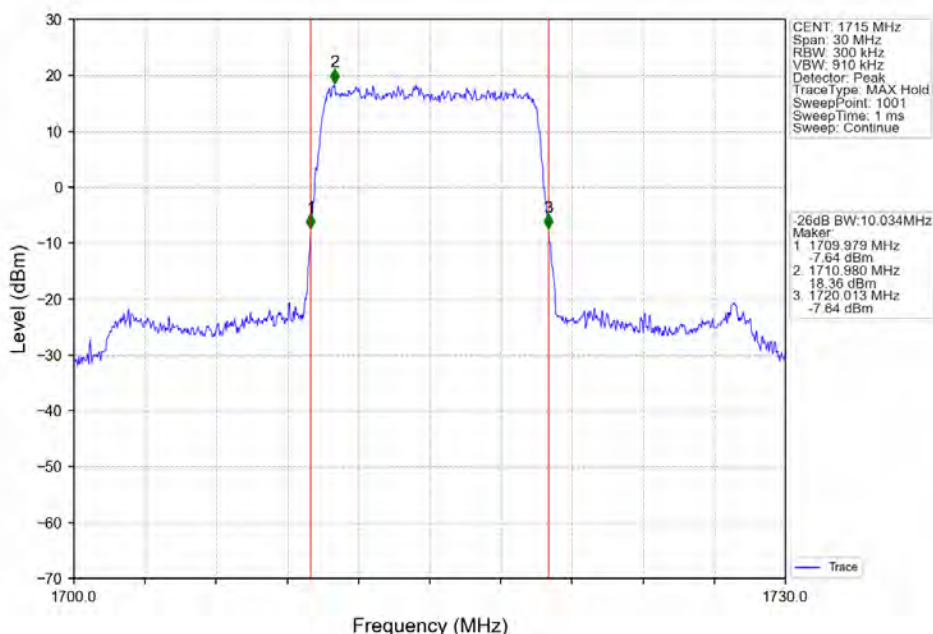
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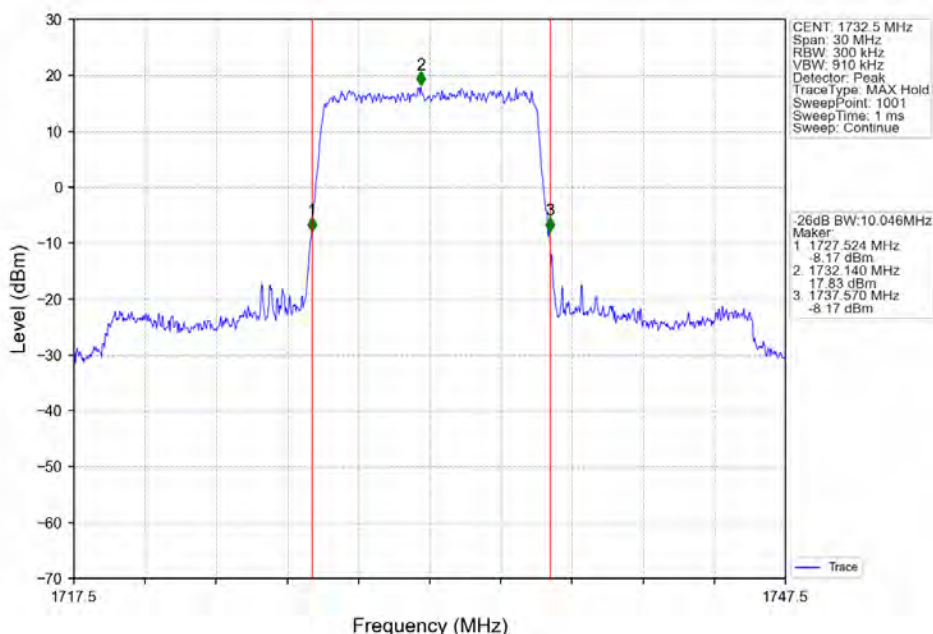
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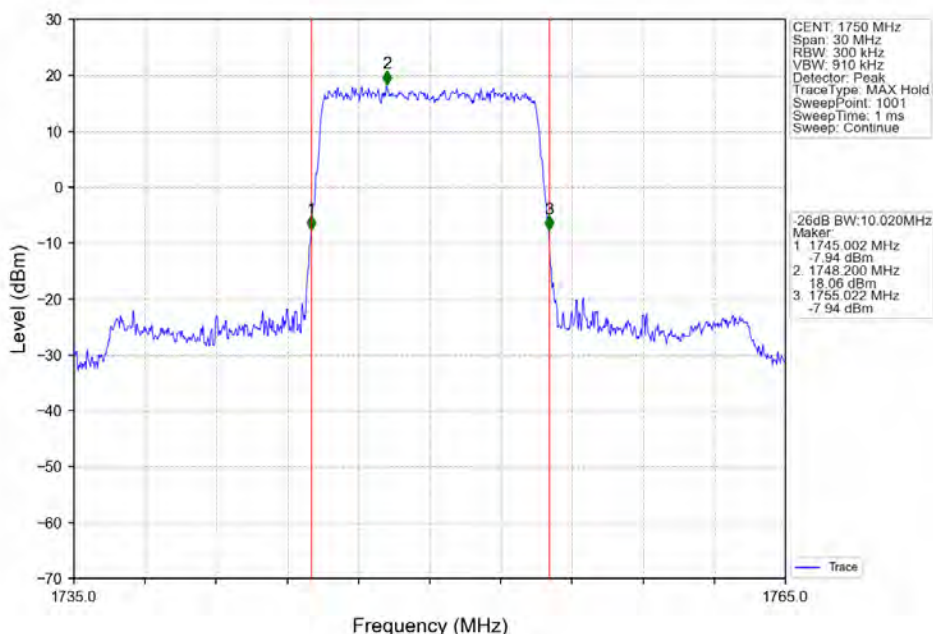
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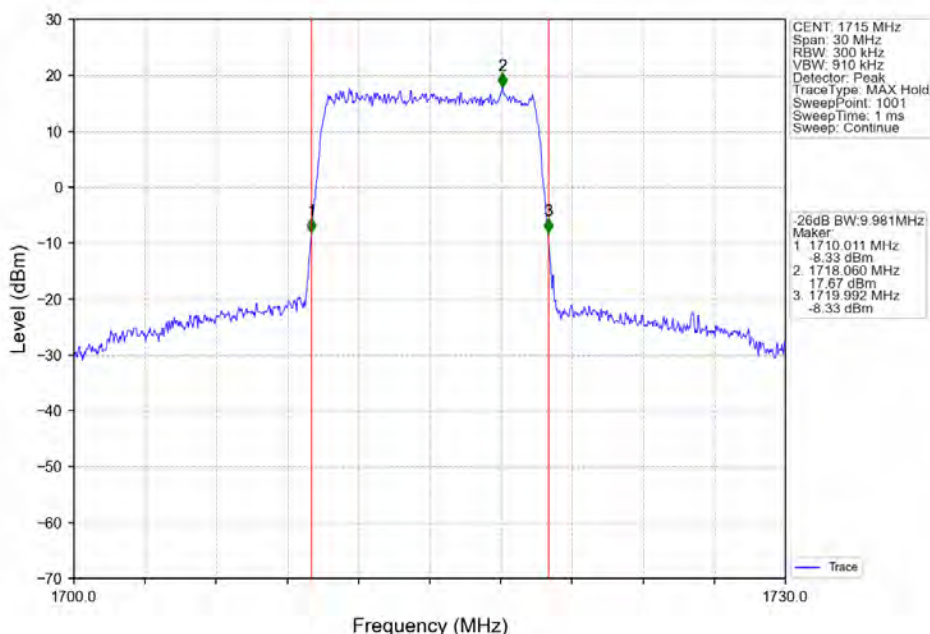
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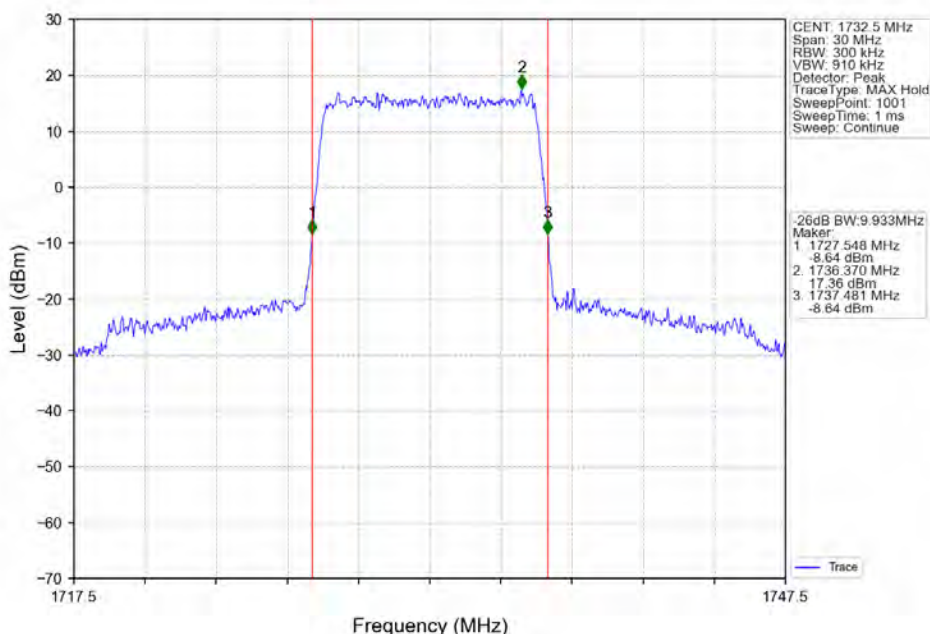
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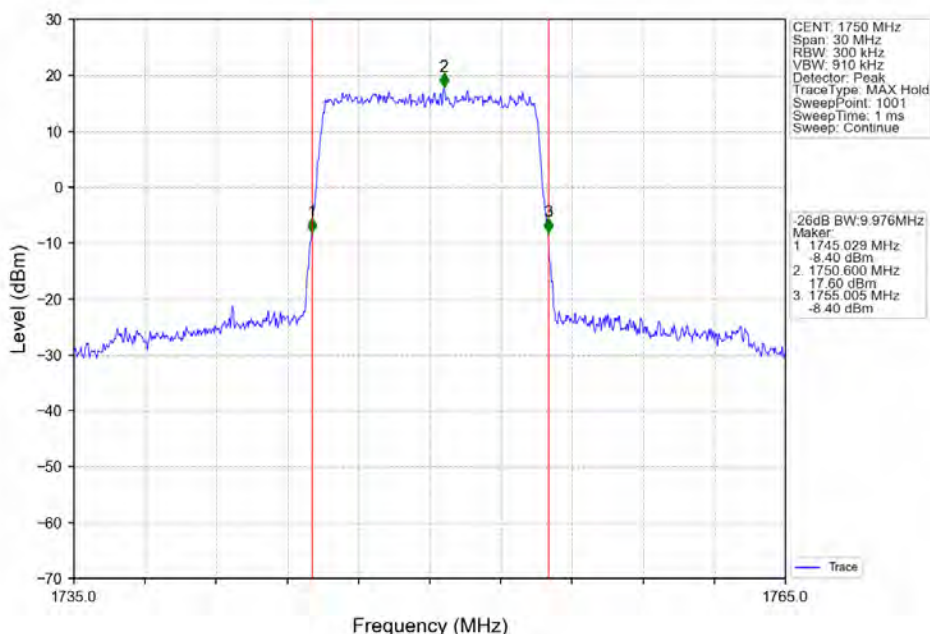
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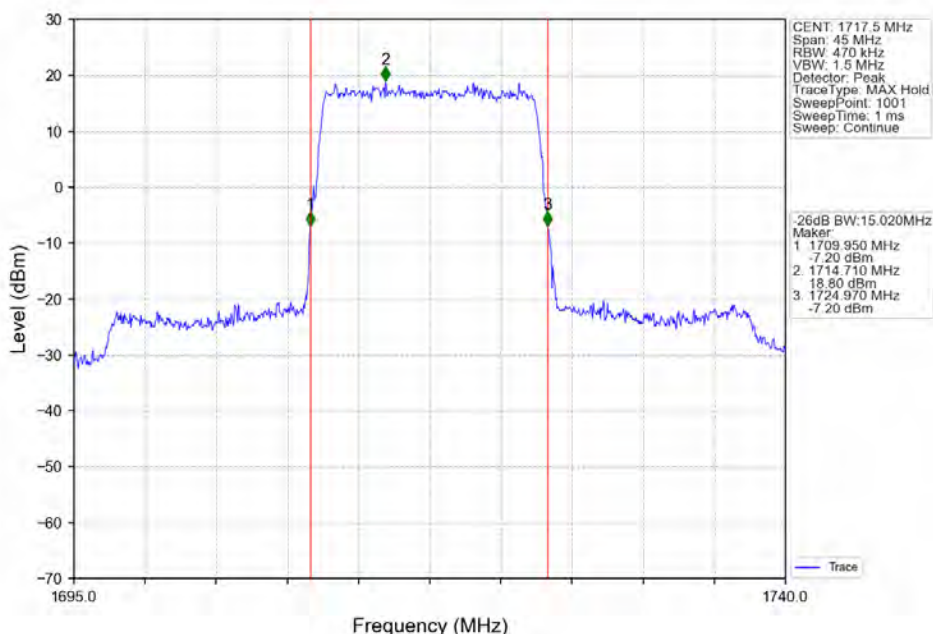
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



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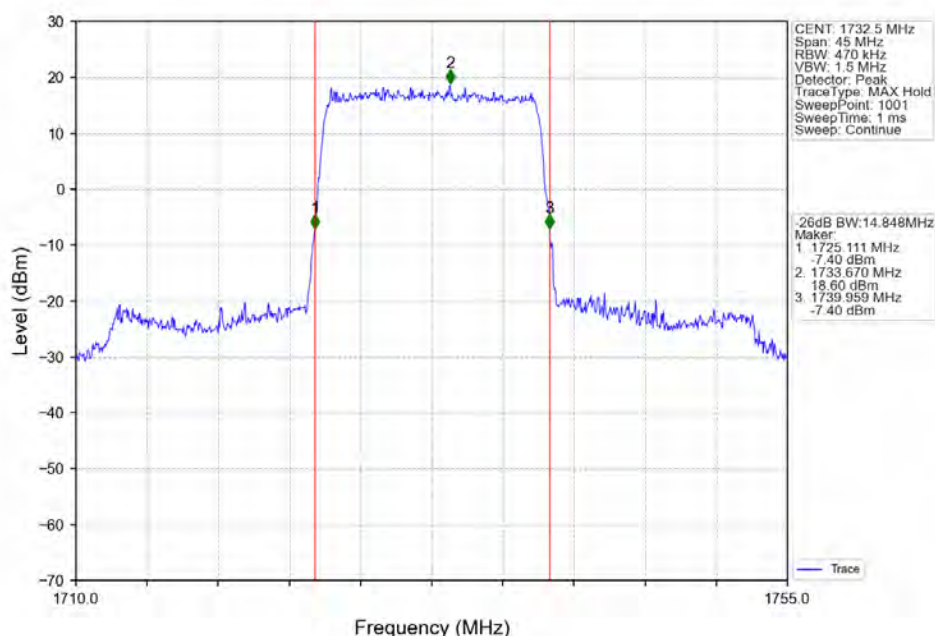
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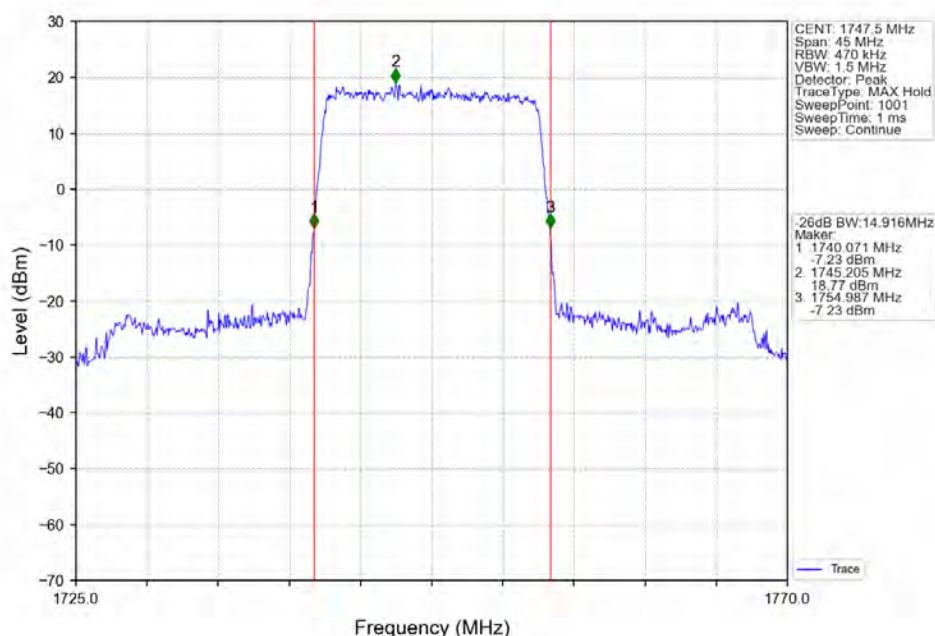
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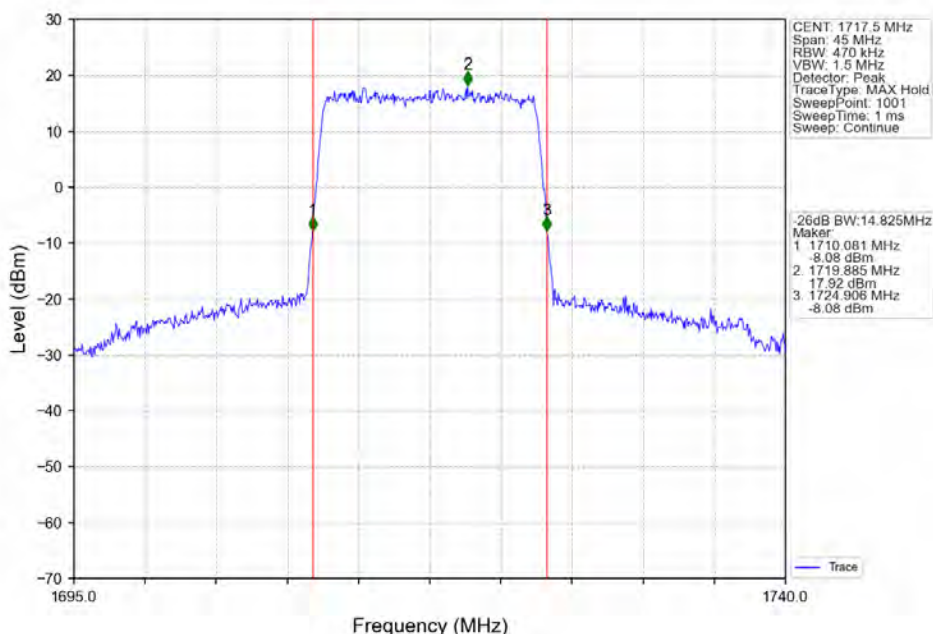
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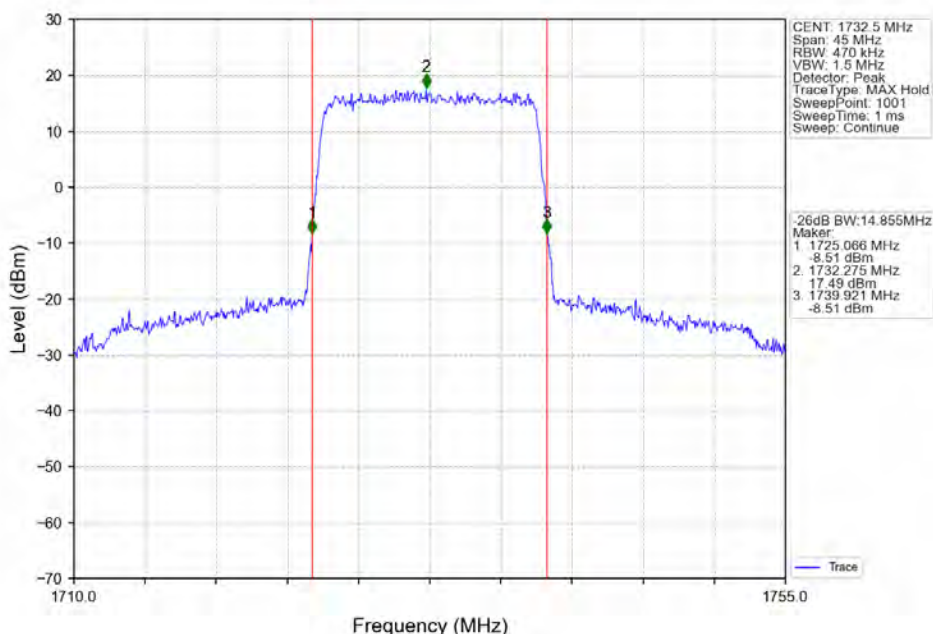
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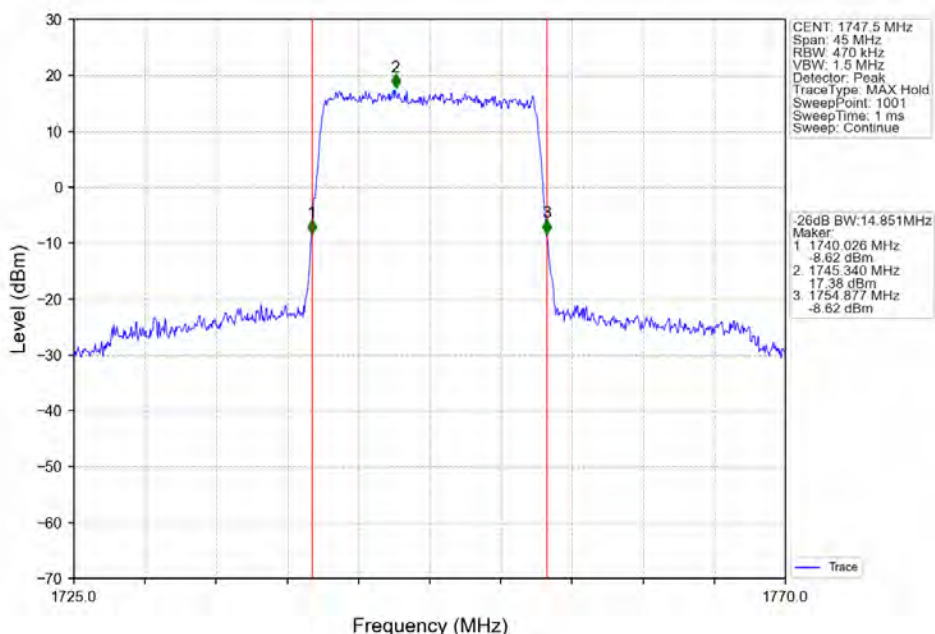
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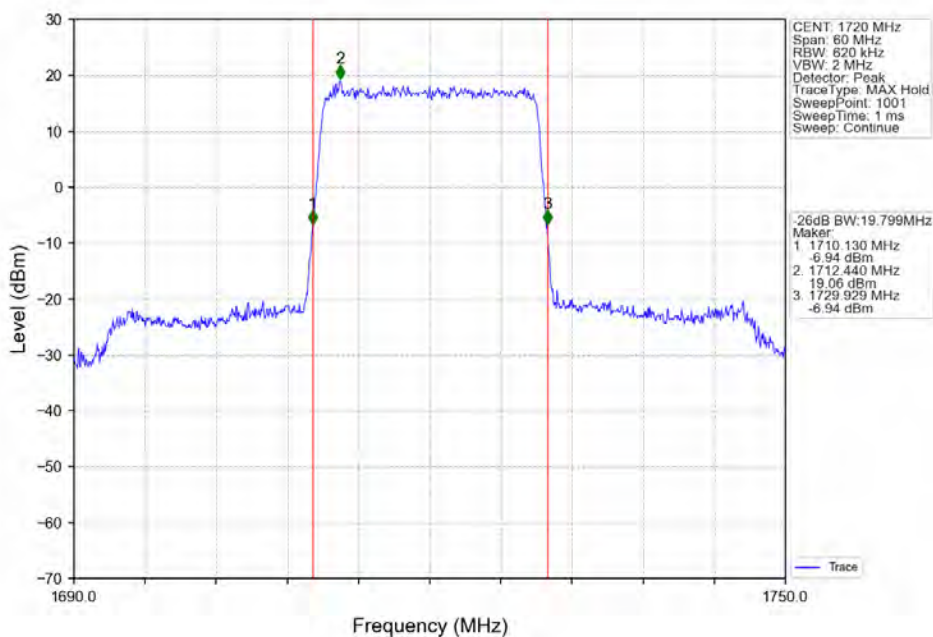
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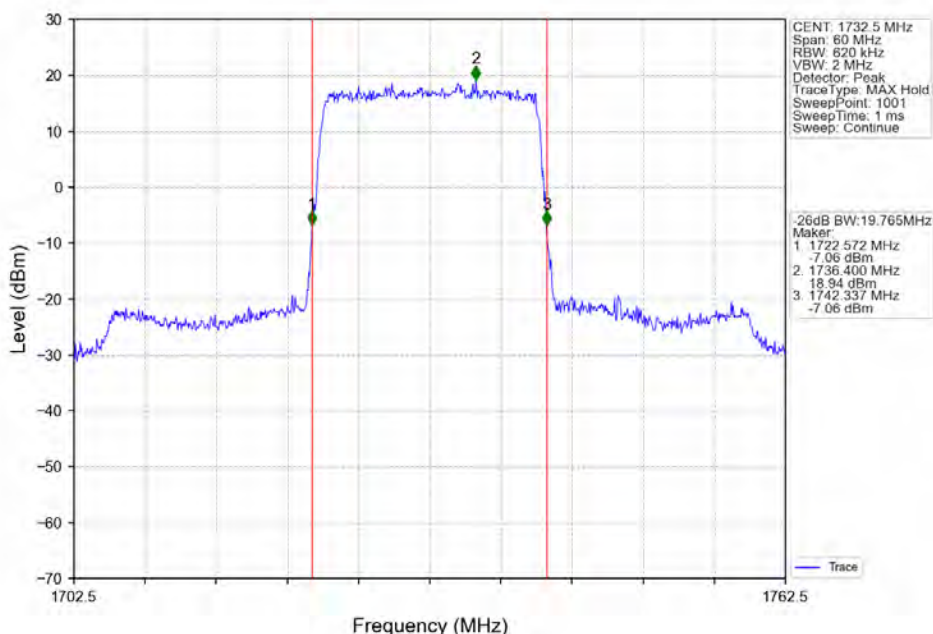
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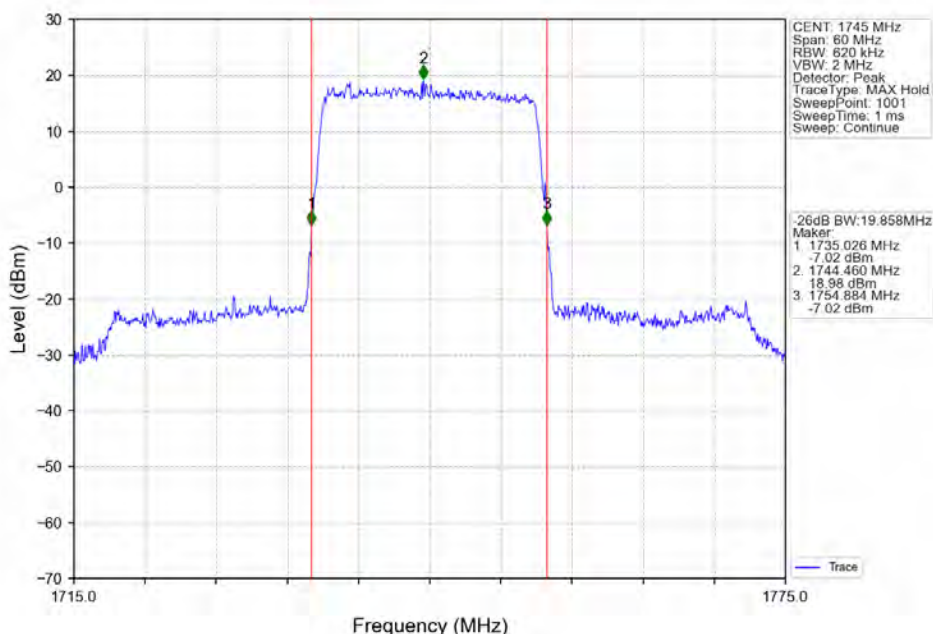
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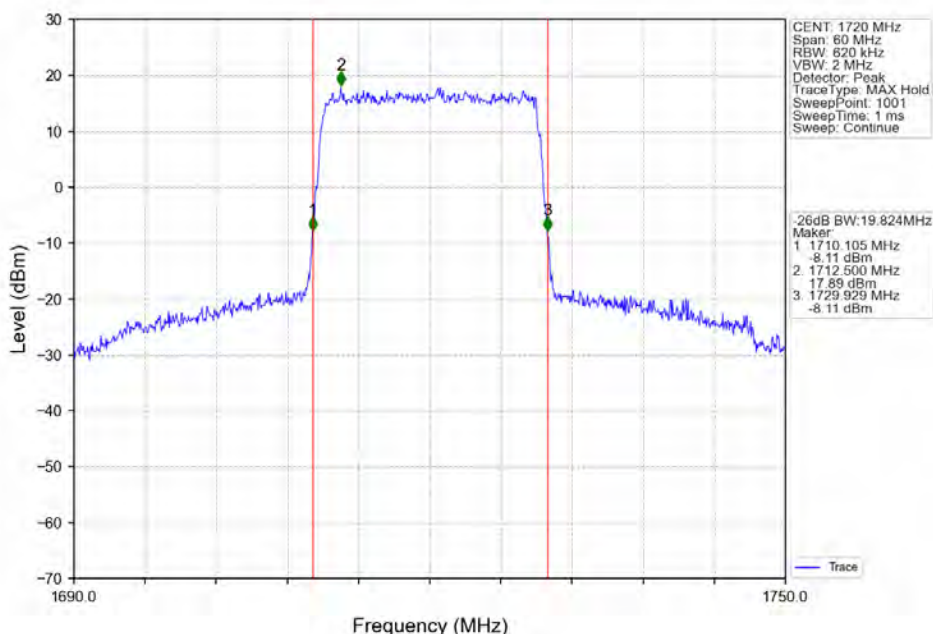
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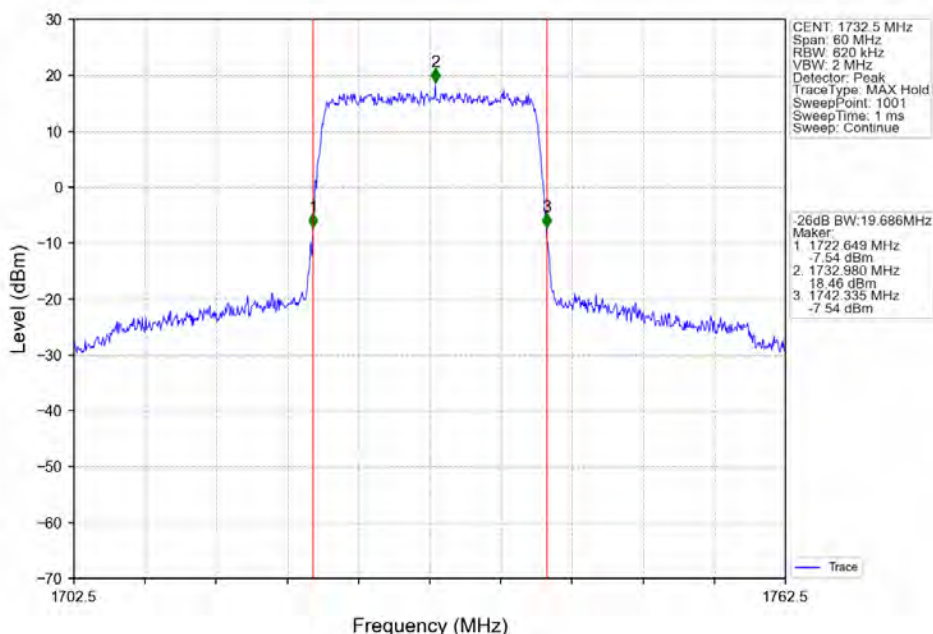
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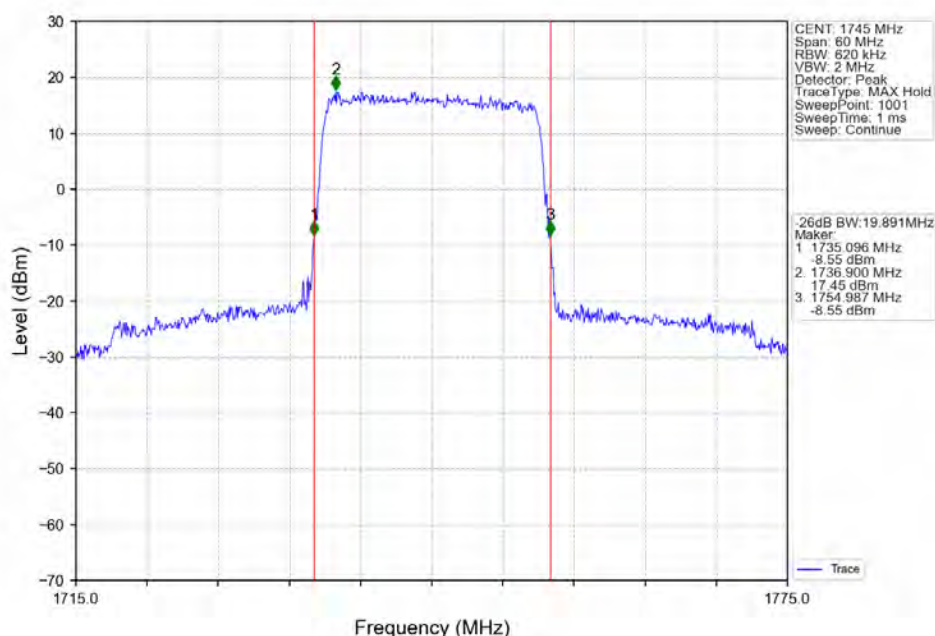
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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.42	<=13	Pass
	1732.5	6	0	5.37	<=13	Pass
	1754.3	6	0	5.56	<=13	Pass
16QAM	1710.7	6	0	6.32	<=13	Pass
	1732.5	6	0	6.18	<=13	Pass
	1754.3	6	0	6.33	<=13	Pass



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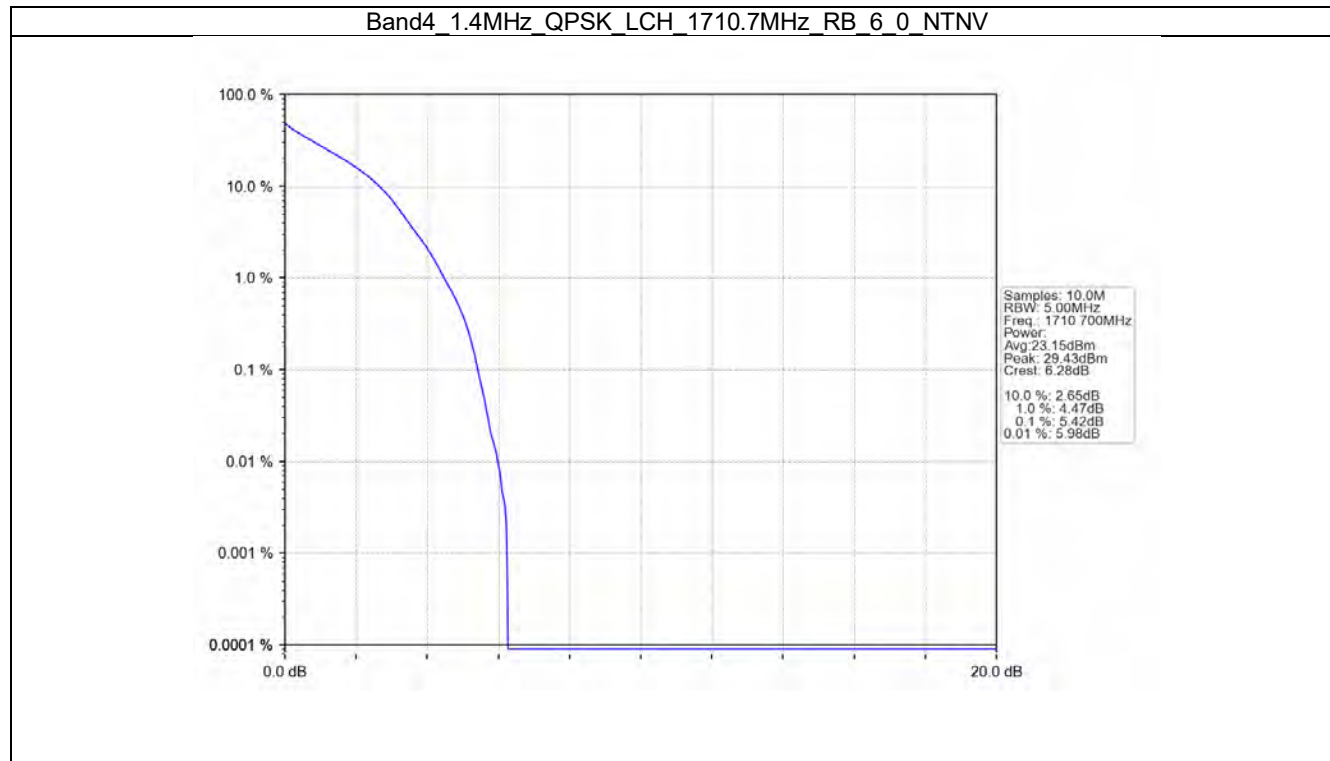
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4.1.2 Test Graph



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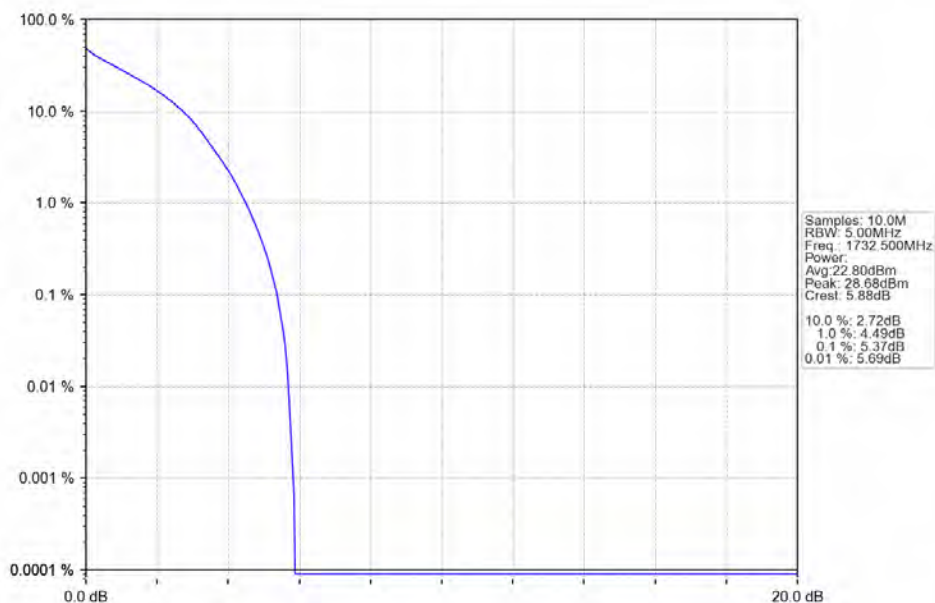
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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



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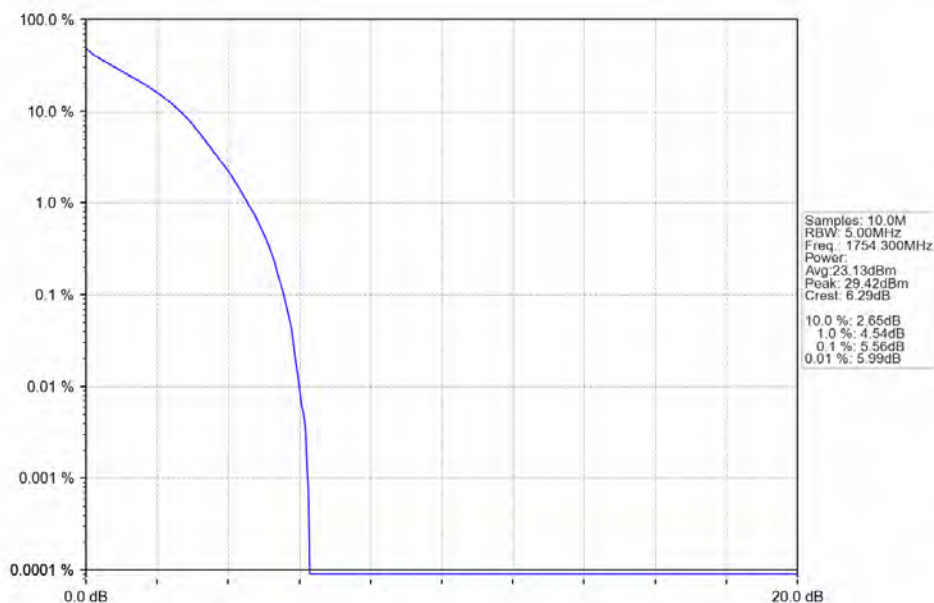
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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV



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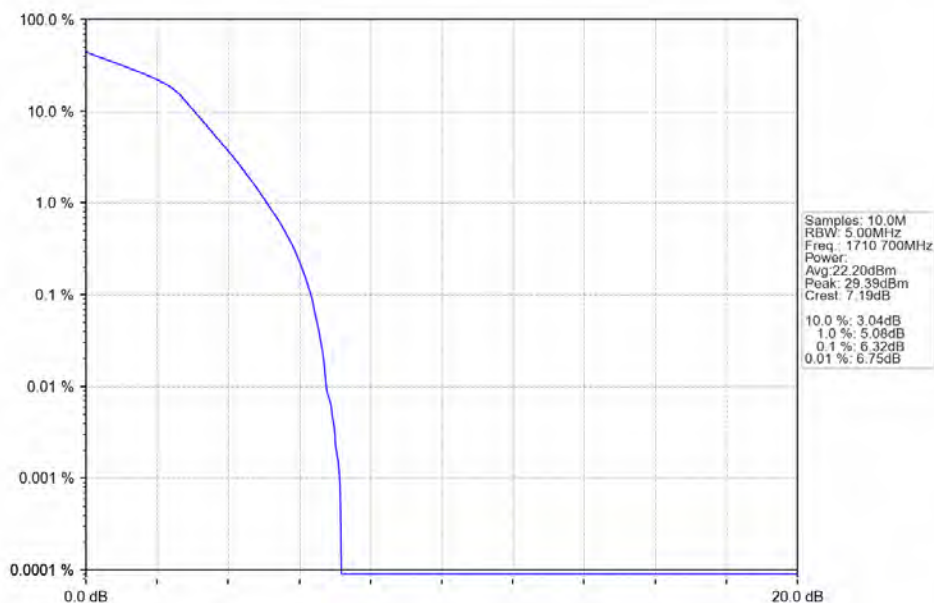
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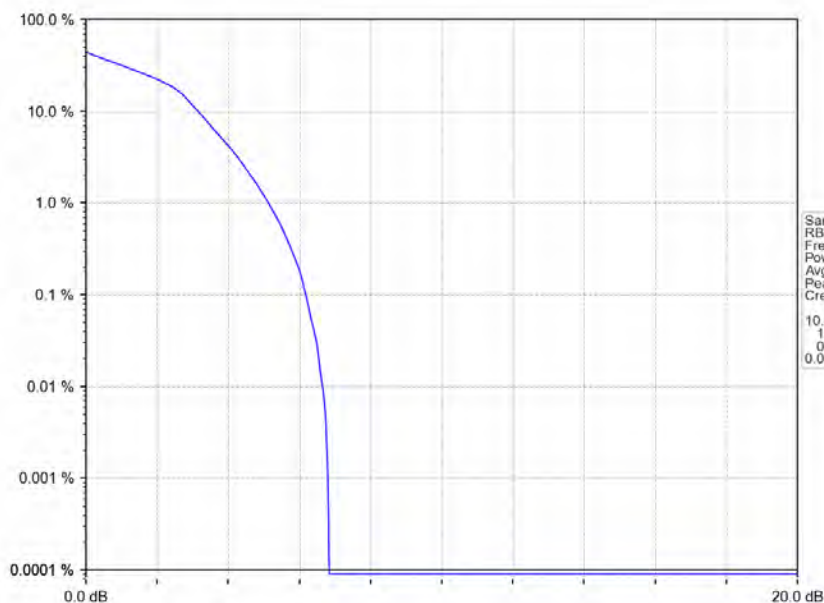
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Band4_1.4MHz_16QAM_MCH_1732.5MHz_RB_6_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 1732.500MHz
Power:
Avg: 21.78dBm
Peak: 28.63dBm
Crest: 6.85dB
10.0%: 3.15dB
1.0%: 5.13dB
0.1%: 6.18dB
0.01%: 6.65dB



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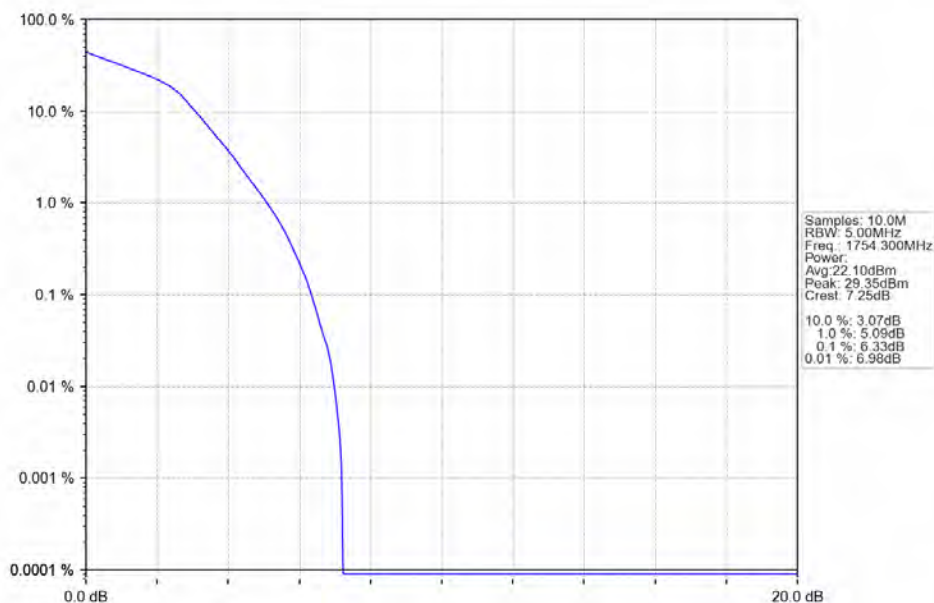
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4.2 B4_3MHz

4.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.59	<=13	Pass
	1732.5	15	0	5.40	<=13	Pass
	1753.5	15	0	5.59	<=13	Pass
16QAM	1711.5	15	0	6.40	<=13	Pass
	1732.5	15	0	6.24	<=13	Pass
	1753.5	15	0	6.43	<=13	Pass



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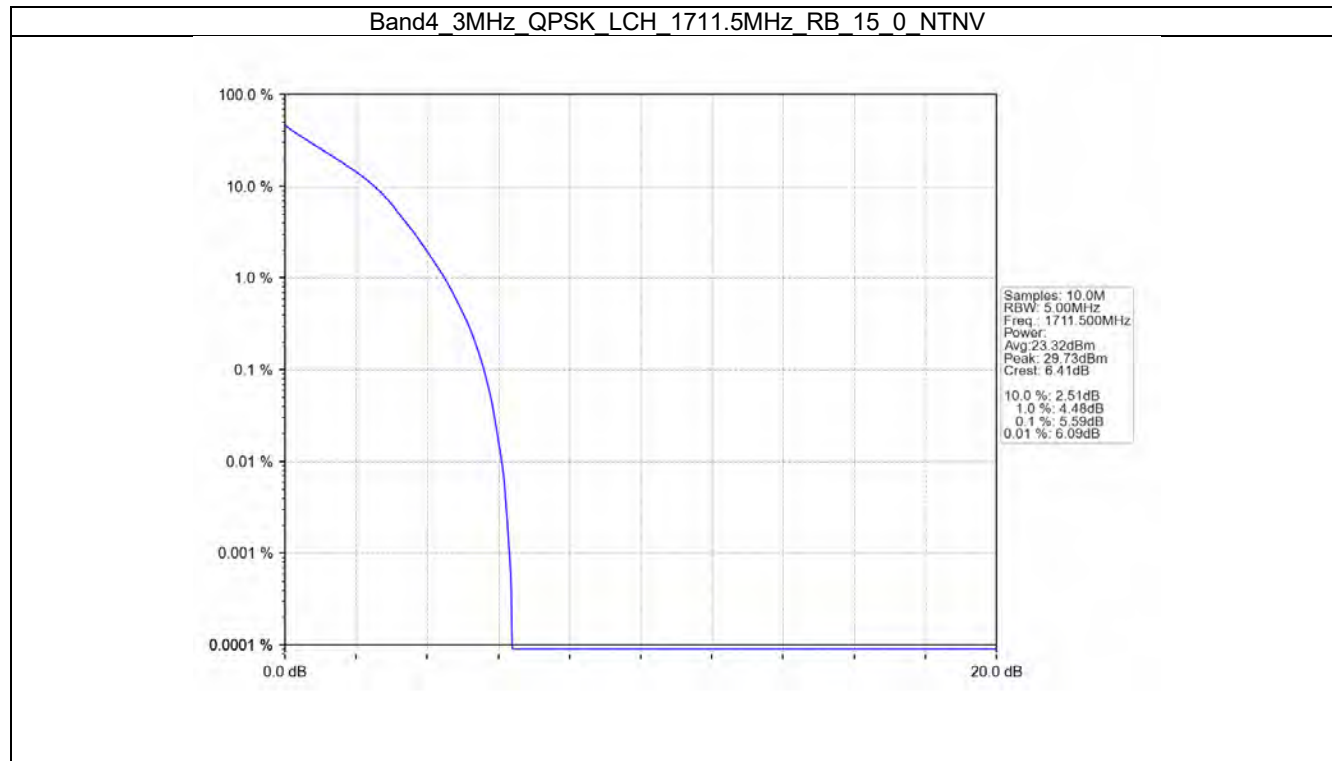
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4.2.2 Test Graph



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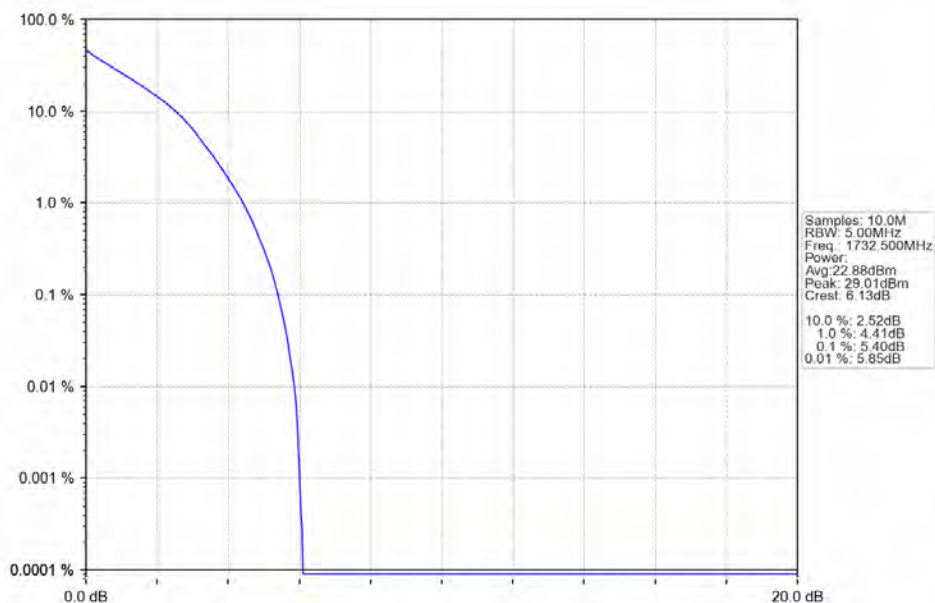
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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV



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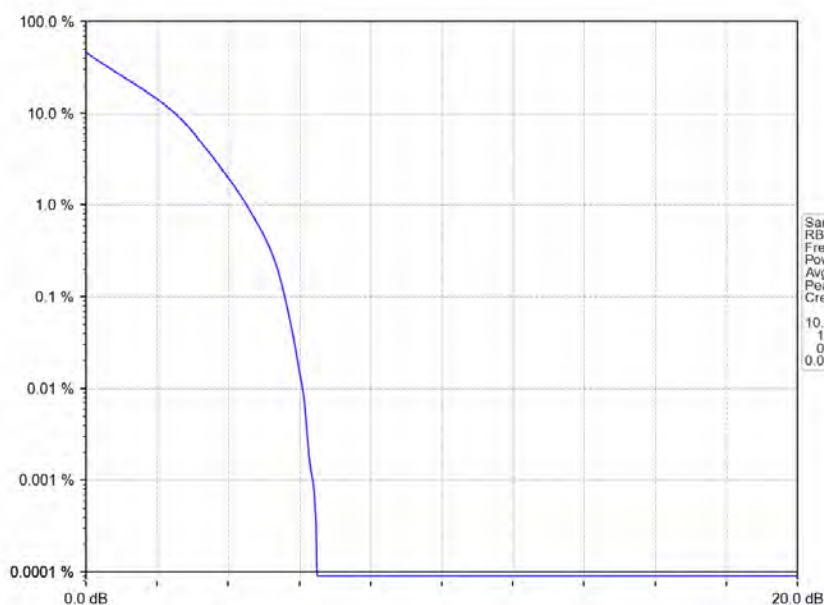
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq: 1753.500MHz
Power:
Avg: 23.17dBm
Peak: 29.71dBm
Crest: 6.54dB
10.0%: 2.50dB
1.0%: 4.51dB
0.1%: 5.59dB
0.01%: 6.09dB



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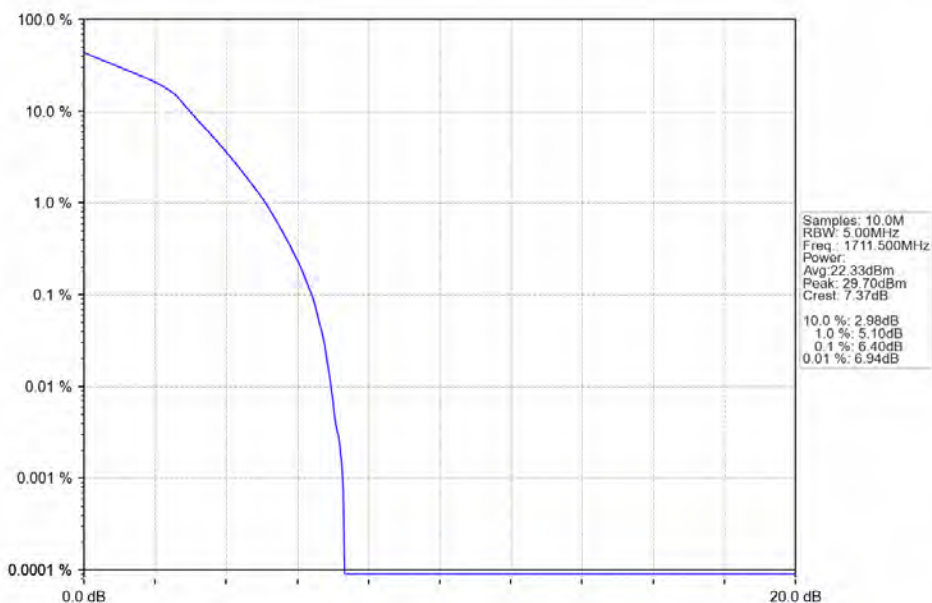
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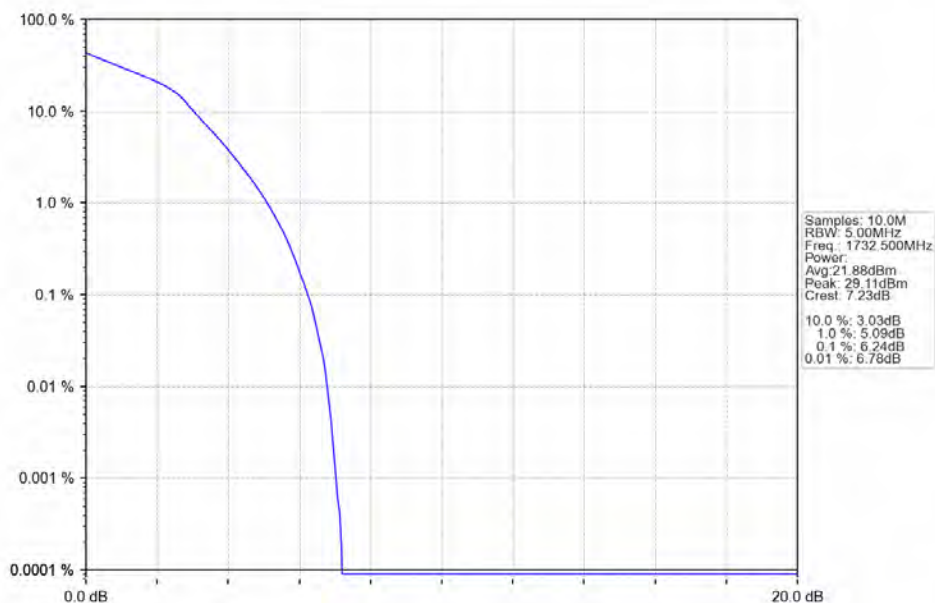
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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV



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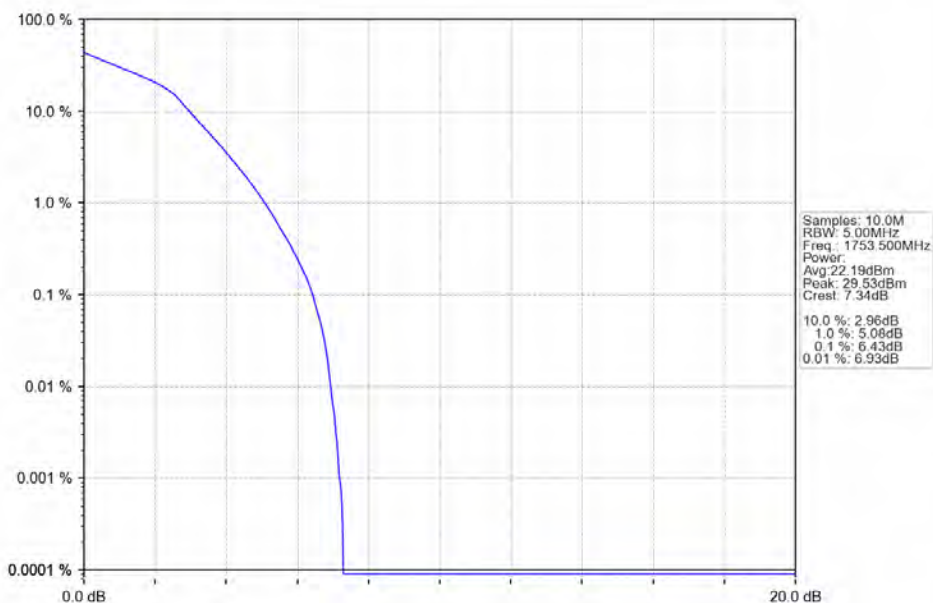
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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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4.3 B4_5MHz

4.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.67	<=13	Pass
	1732.5	25	0	5.52	<=13	Pass
	1752.5	25	0	5.59	<=13	Pass
16QAM	1712.5	25	0	6.39	<=13	Pass
	1732.5	25	0	6.29	<=13	Pass
	1752.5	25	0	6.35	<=13	Pass



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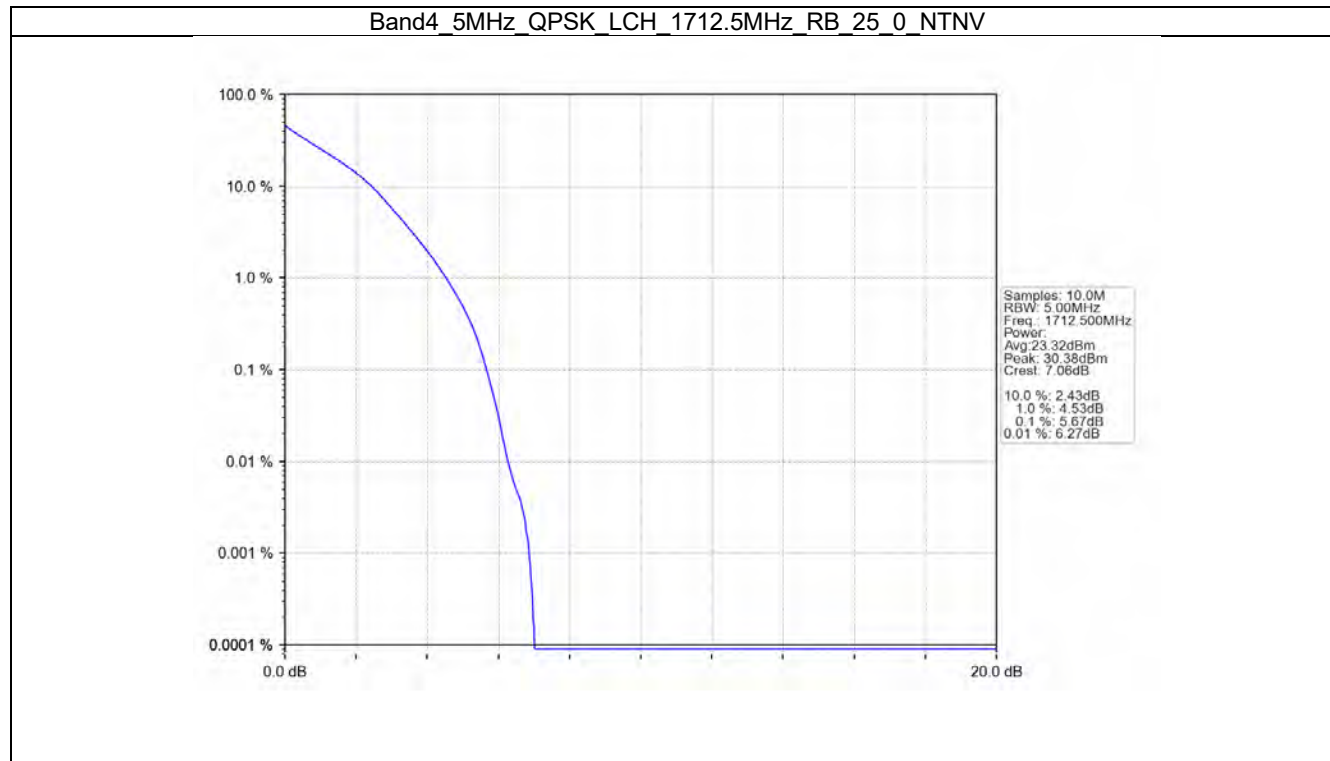
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4.3.2 Test Graph



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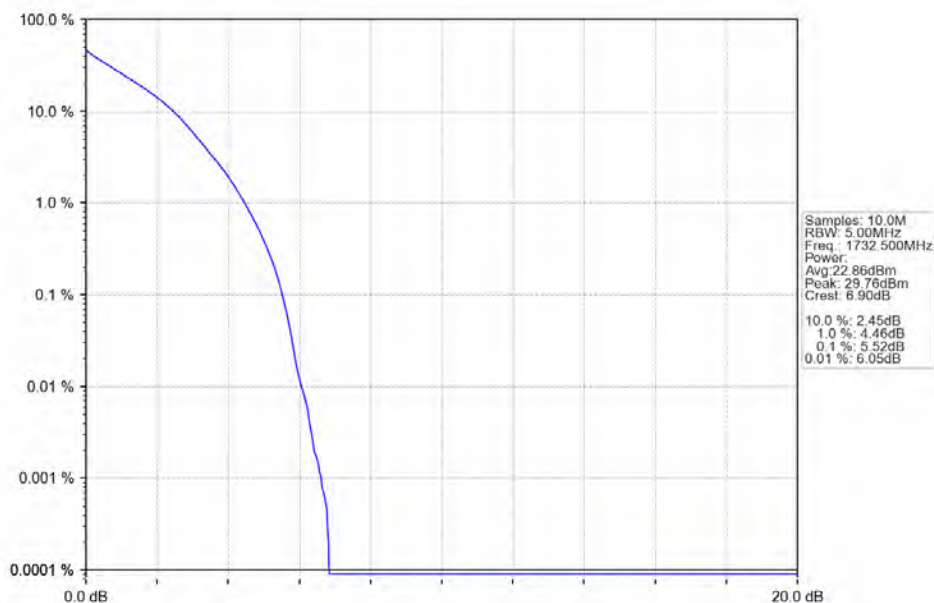
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



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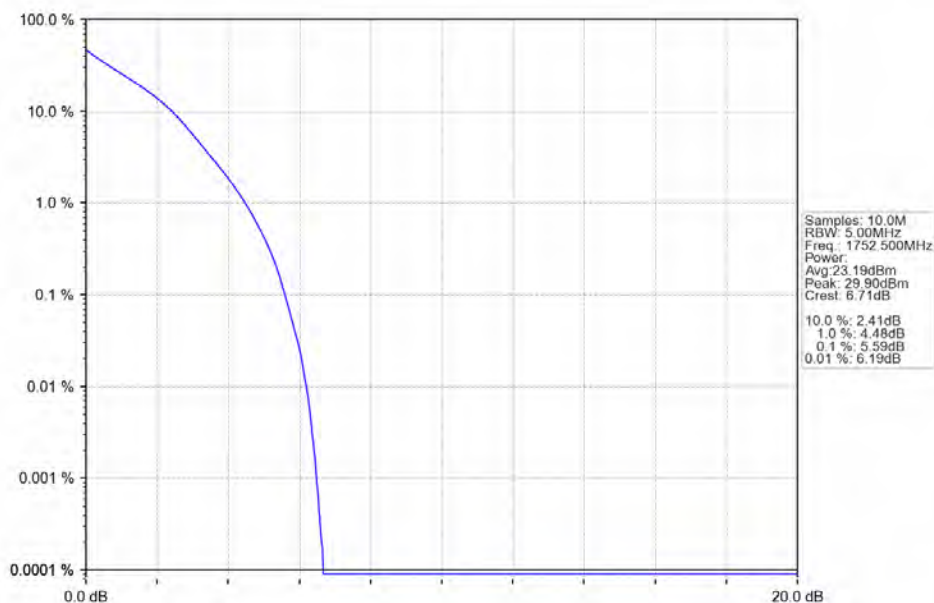
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



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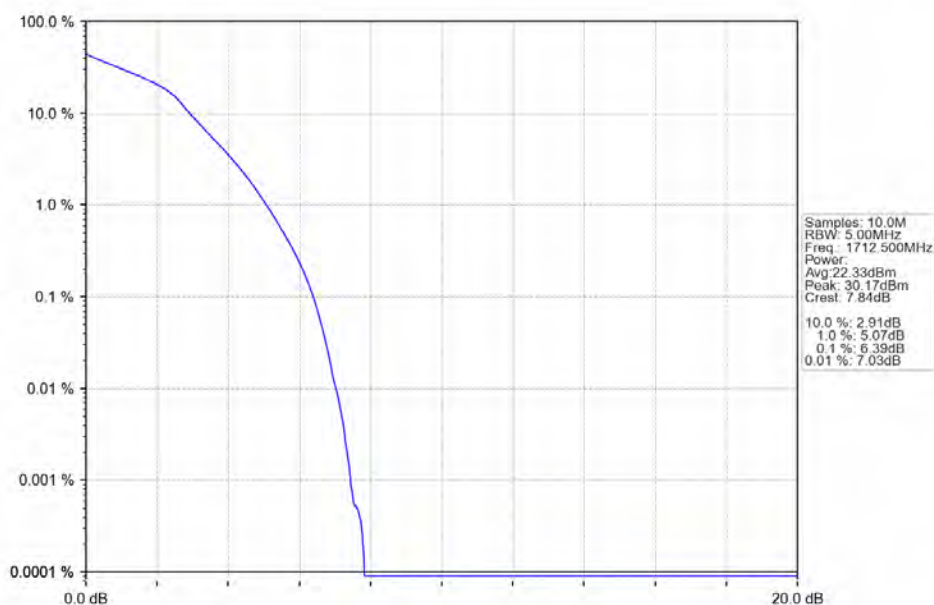
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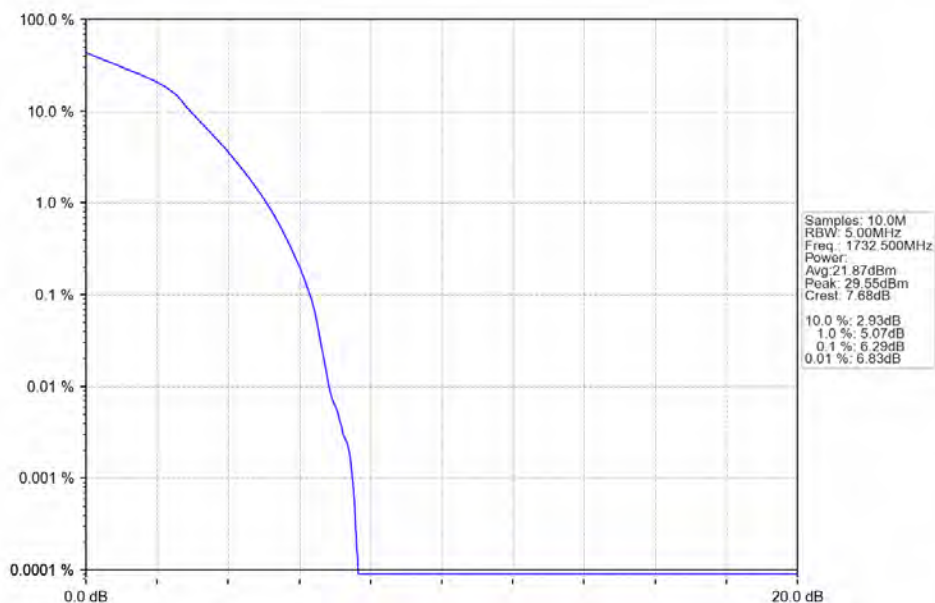
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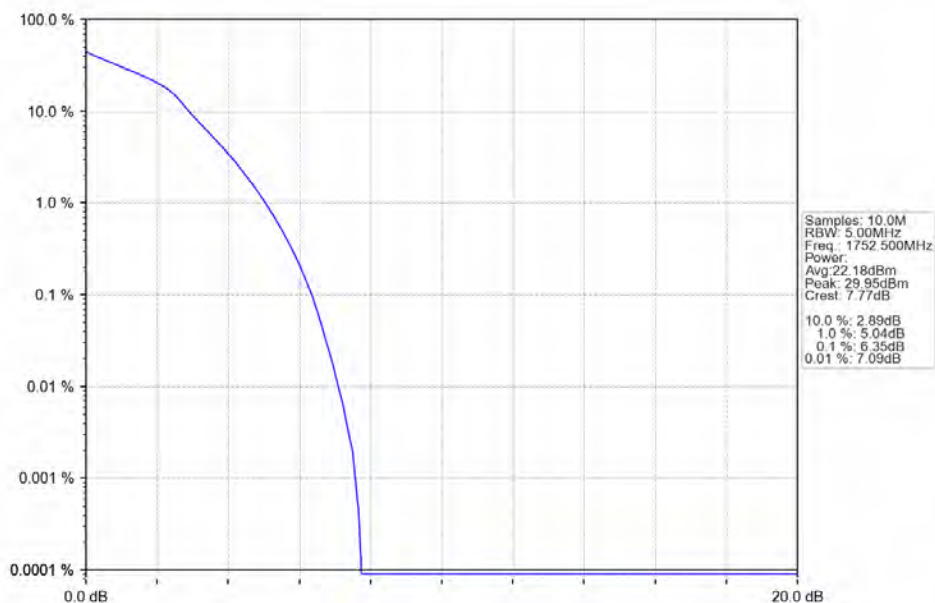
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4.4 B4_10MHz

4.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.63	<=13	Pass
	1732.5	50	0	5.44	<=13	Pass
	1750	50	0	5.48	<=13	Pass
16QAM	1715	50	0	6.41	<=13	Pass
	1732.5	50	0	6.29	<=13	Pass
	1750	50	0	6.28	<=13	Pass



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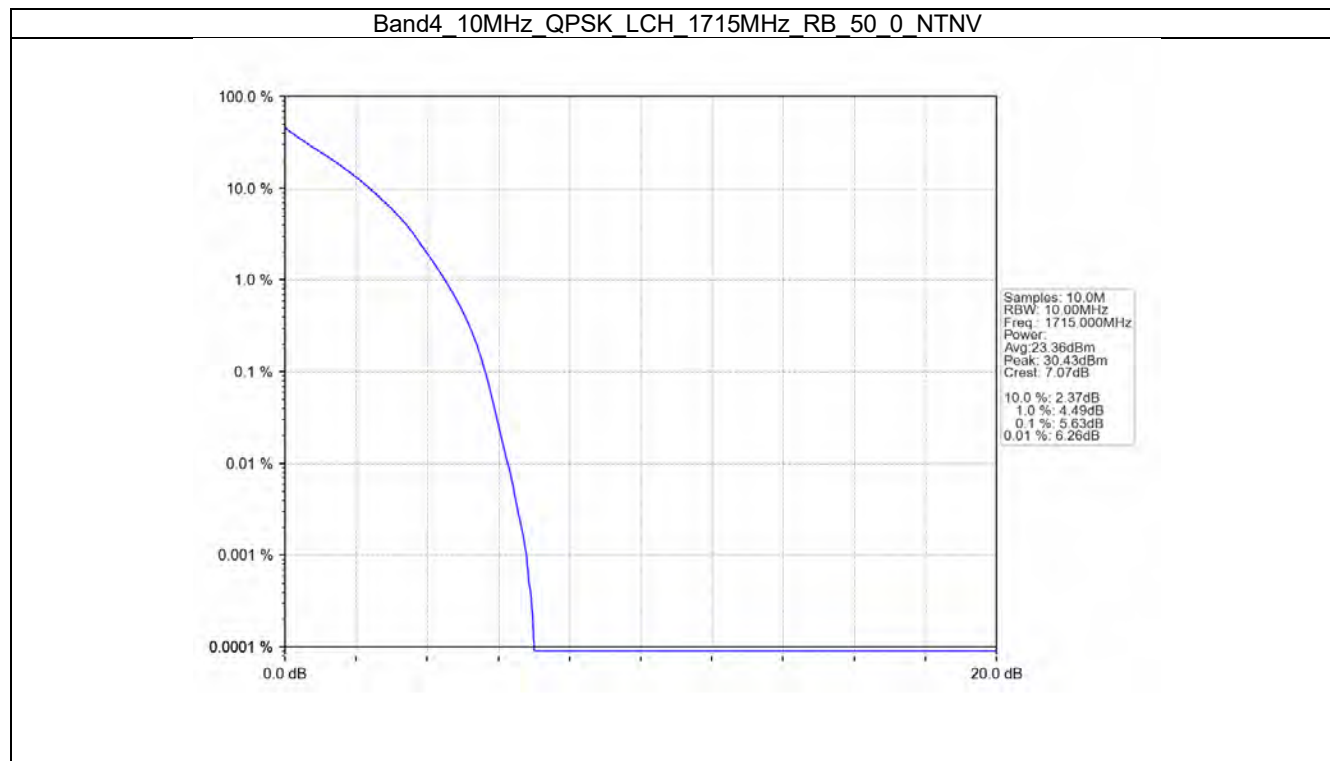
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4.4.2 Test Graph



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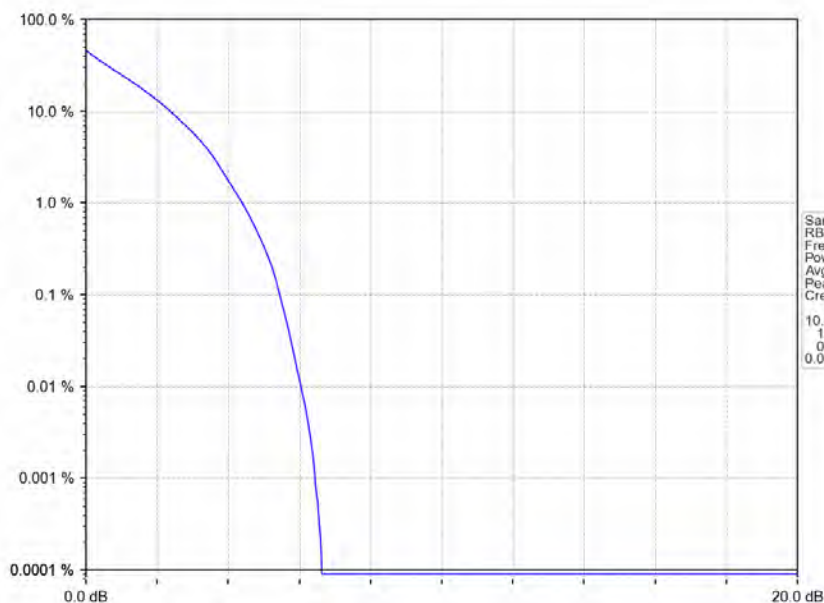
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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 1732.500MHz
Power:
Avg: 22.89dBm
Peak: 29.60dBm
Crest: 6.71dB
10.0%: 2.37dB
1.0%: 4.39dB
0.1%: 5.44dB
0.01%: 6.04dB



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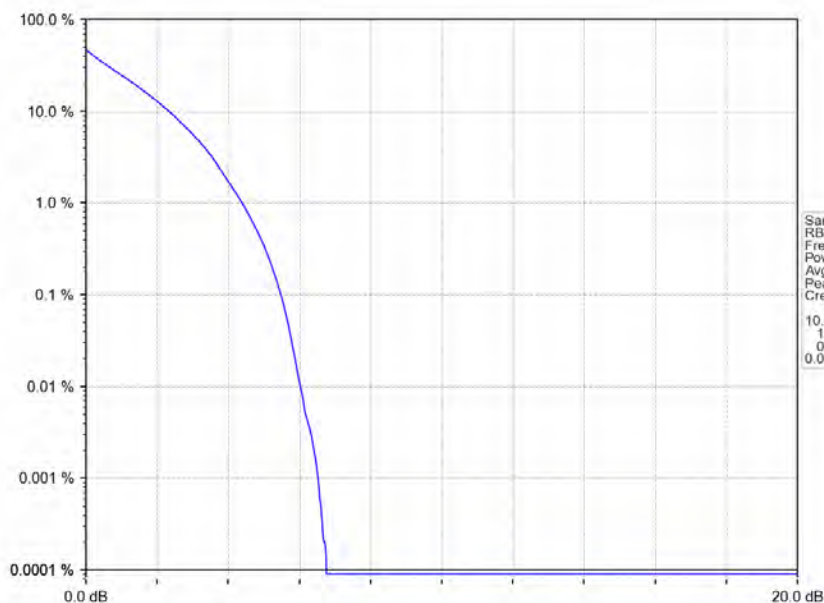
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq.: 1750.000MHz
Power:
Avg: 23.14dBm
Peak: 29.95dBm
Crest: 6.81dB
10.0 %: 2.33dB
1.0 %: 4.39dB
0.1 %: 5.48dB
0.01 %: 6.03dB



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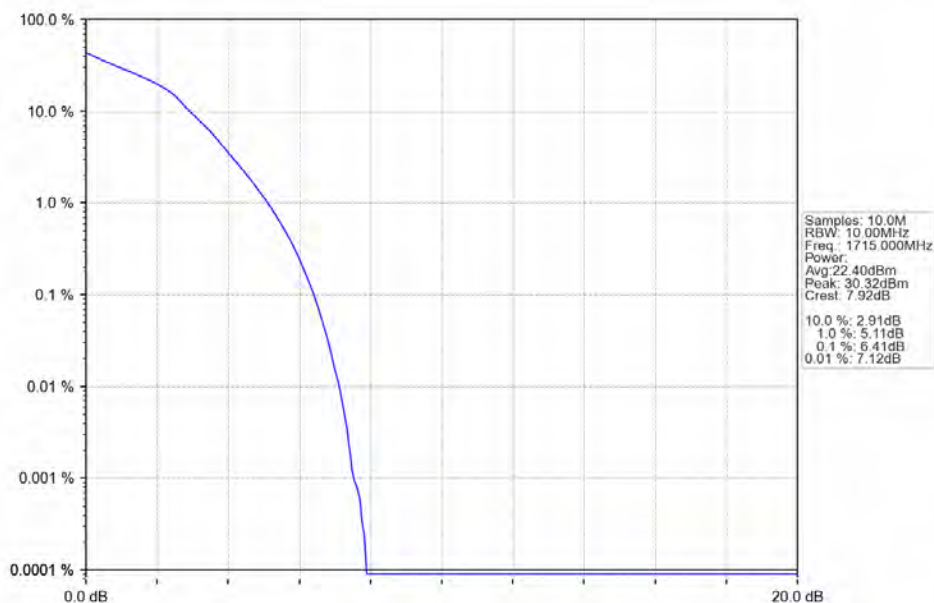
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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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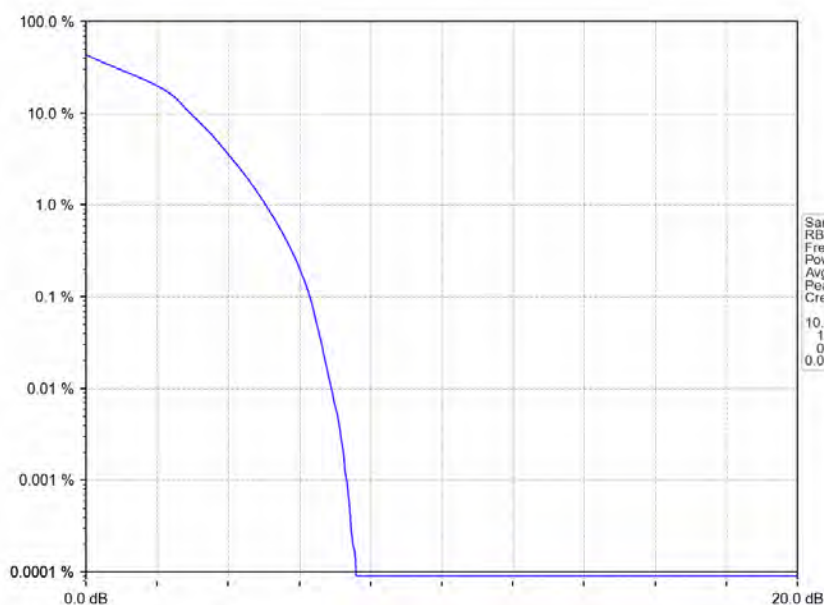
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Band4_10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



Samples: 10.0M
RBW: 10.00MHz
Freq: 1732.500MHz
Power:
Avg: 21.90dBm
Peak: 29.51dBm
Crest: 7.61dB
10.0 %: 2.93dB
1.0 %: 5.05dB
0.1 %: 6.29dB
0.01 %: 6.90dB



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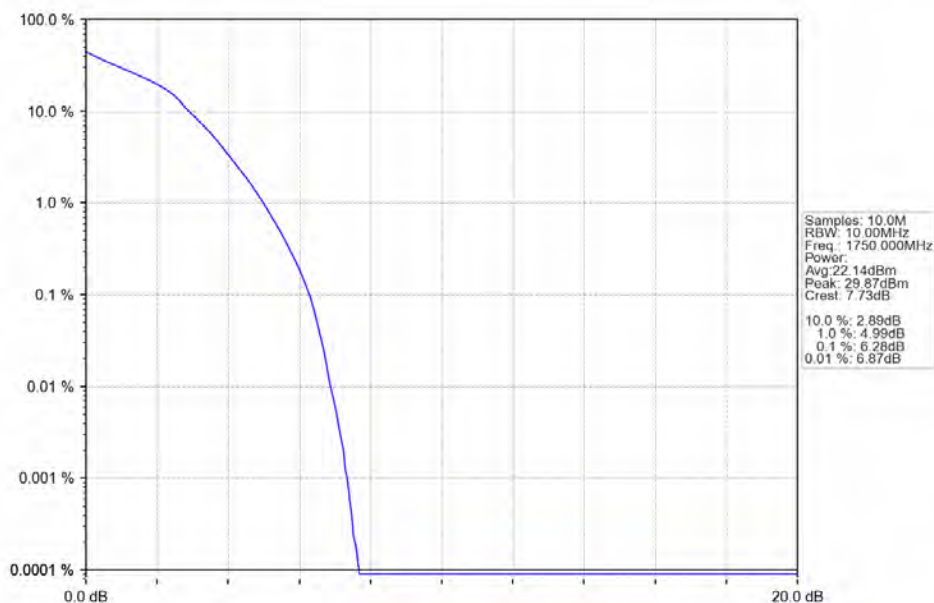
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Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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4.5 B4_15MHz

4.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.83	<=13	Pass
	1732.5	75	0	5.58	<=13	Pass
	1747.5	75	0	5.55	<=13	Pass
16QAM	1717.5	75	0	6.51	<=13	Pass
	1732.5	75	0	6.30	<=13	Pass
	1747.5	75	0	6.22	<=13	Pass



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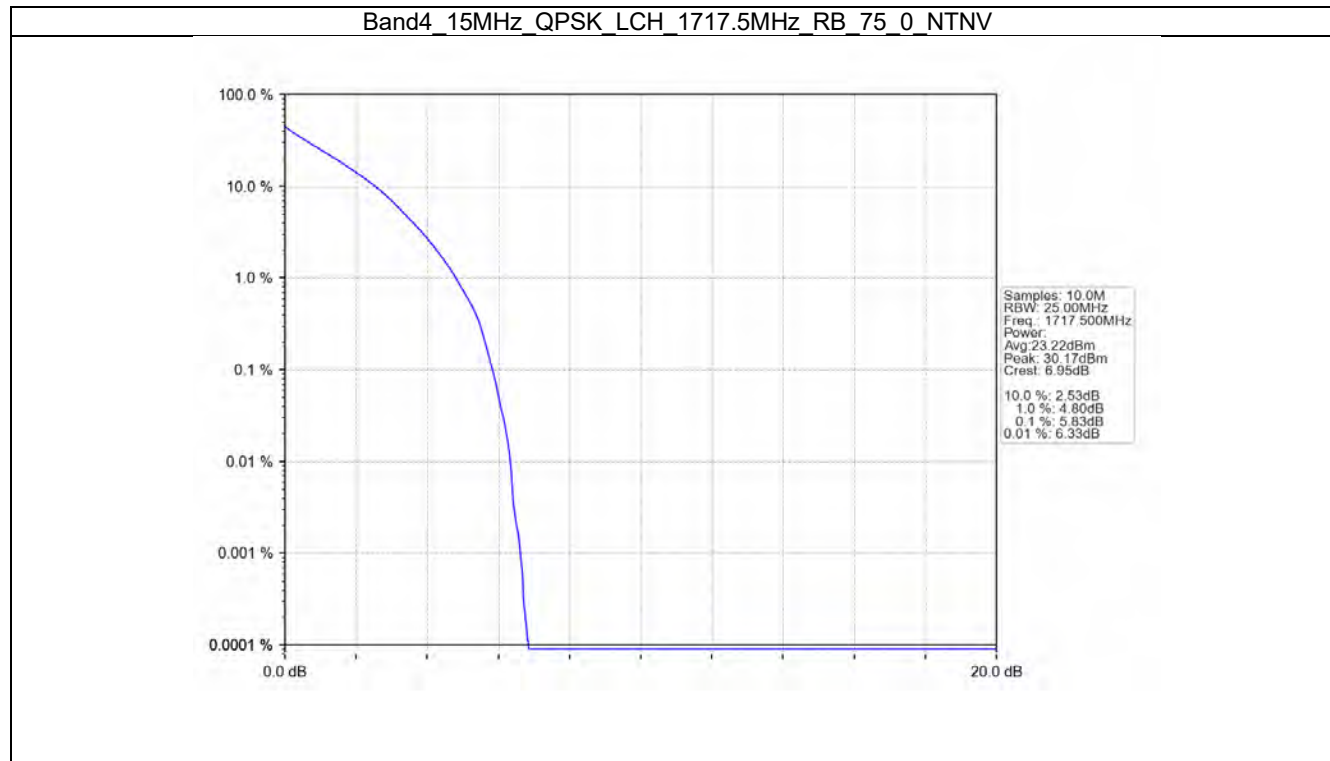
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4.5.2 Test Graph



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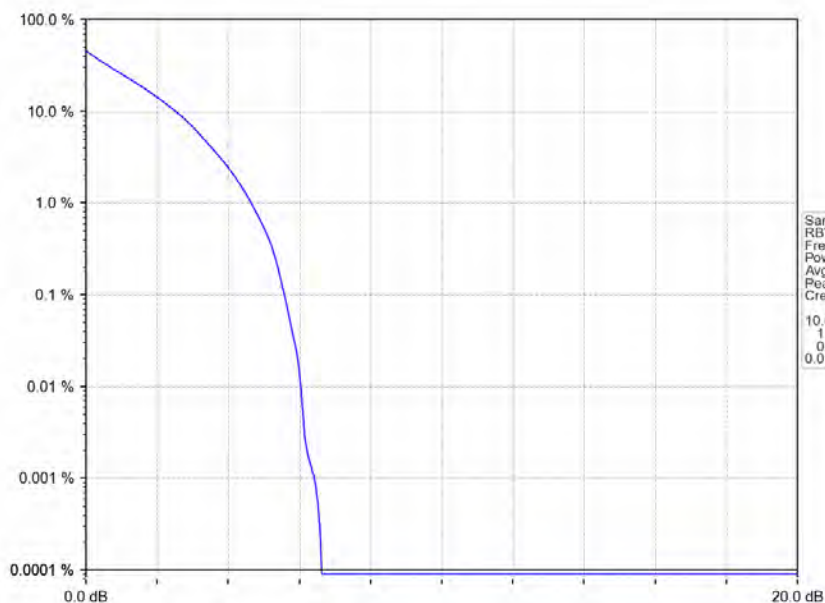
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 1732.500MHz
Power:
Avg: 22.96dBm
Peak: 29.64dBm
Crest: 6.68dB
10.0%: 2.51dB
1.0%: 4.64dB
0.1%: 5.58dB
0.01%: 6.04dB



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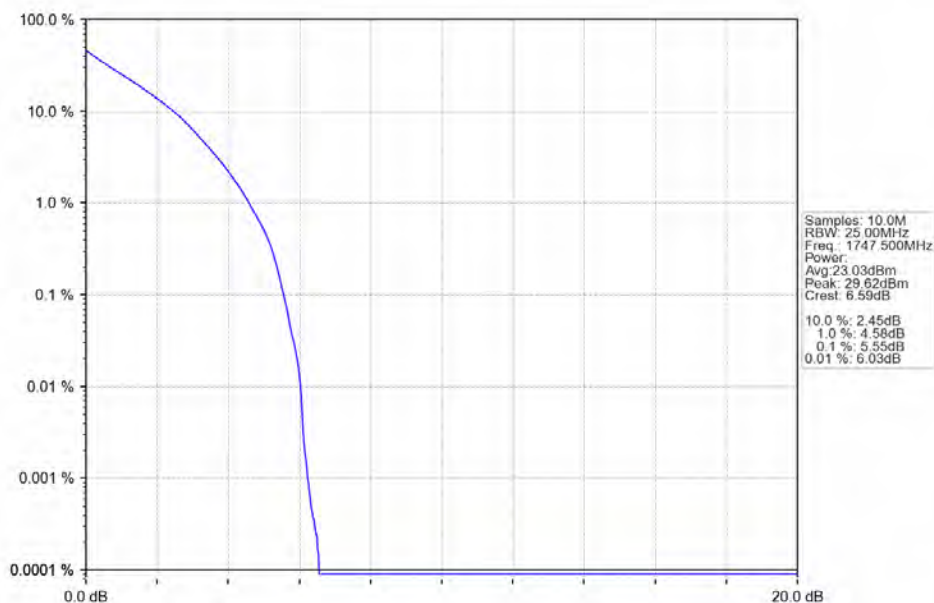
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



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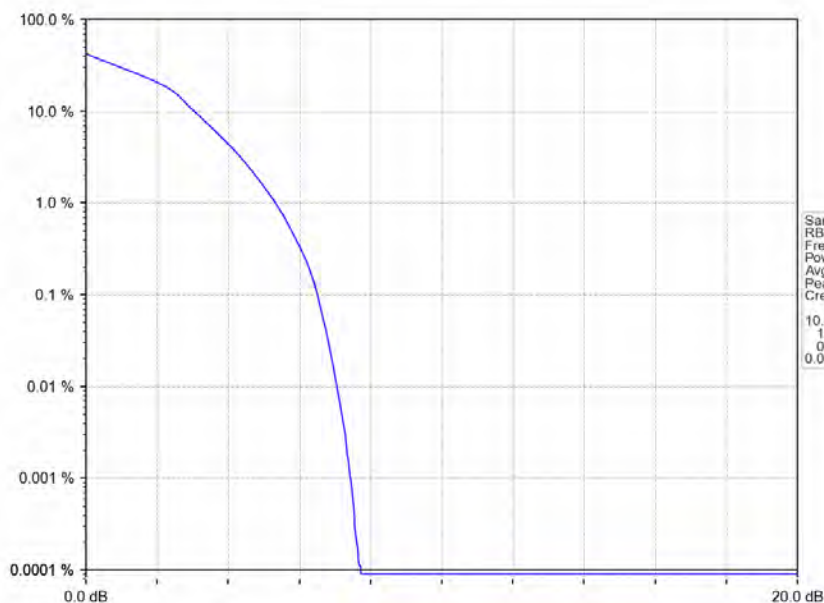
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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 1717.500MHz
Power:
Avg: 22.22dBm
Peak: 30.02dBm
Crest: 7.80dB
10.0%: 3.04dB
1.0%: 5.33dB
0.1%: 6.51dB
0.01%: 7.05dB



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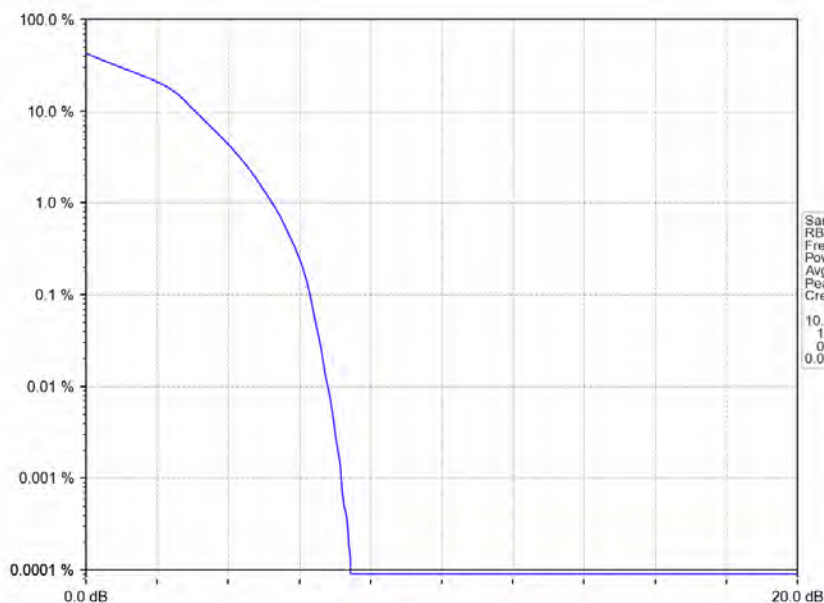
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Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



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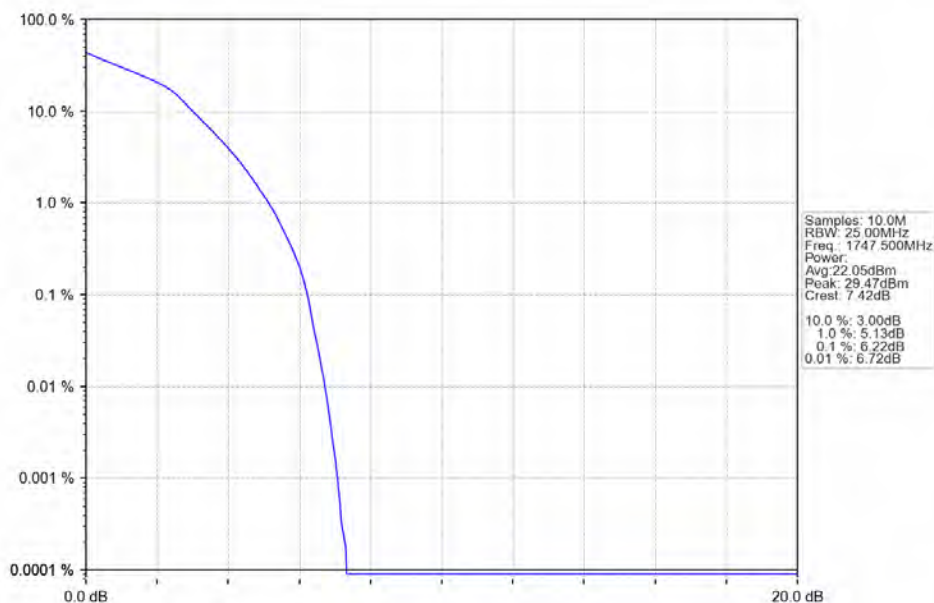
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Band4 15MHz 16QAM HCH 1747.5MHz RB 75_0 NTN



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4.6 B4_20MHz

4.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.54	<=13	Pass
	1732.5	100	0	5.40	<=13	Pass
	1745	100	0	5.37	<=13	Pass
16QAM	1720	100	0	6.39	<=13	Pass
	1732.5	100	0	6.25	<=13	Pass
	1745	100	0	6.16	<=13	Pass



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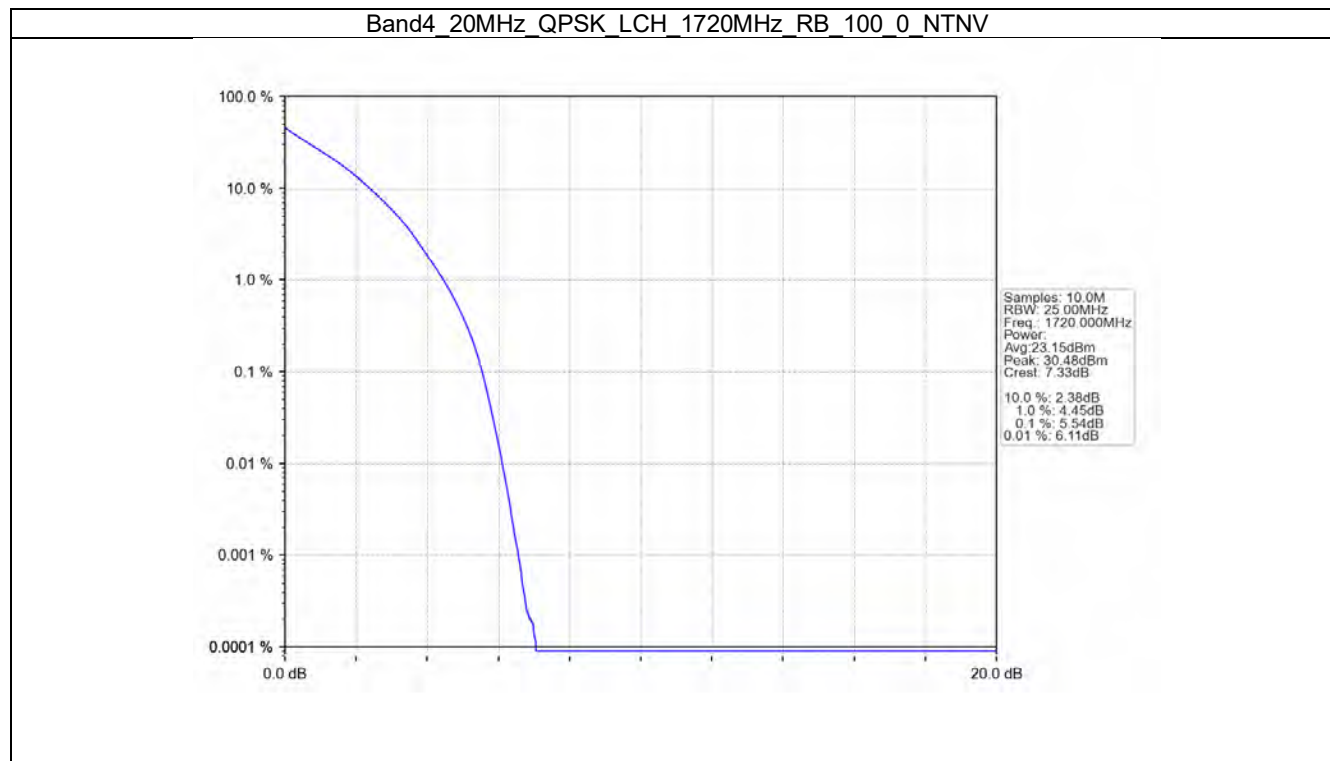
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4.6.2 Test Graph



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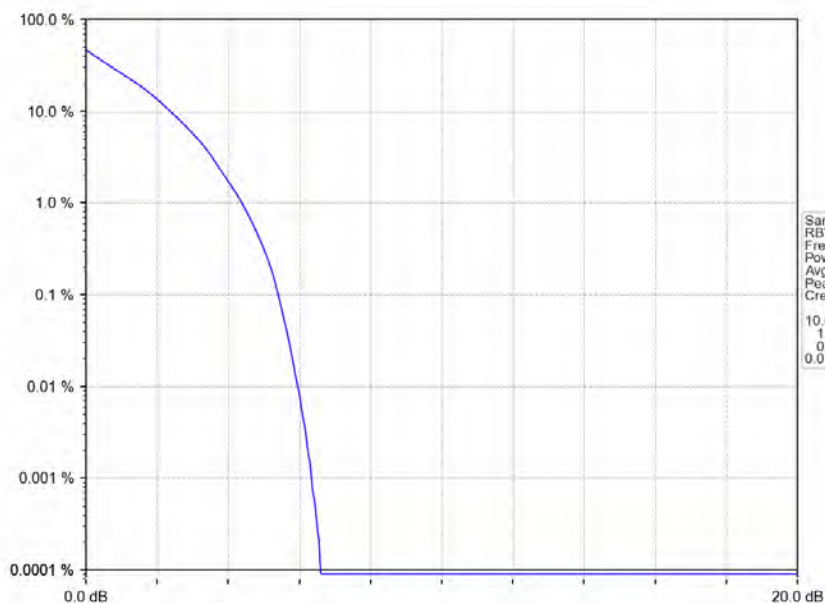
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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 1732.500MHz
Power:
Avg: 22.93dBm
Peak: 29.58dBm
Crest: 6.65dB
10.0%: 2.37dB
1.0%: 4.38dB
0.1%: 5.40dB
0.01%: 5.95dB



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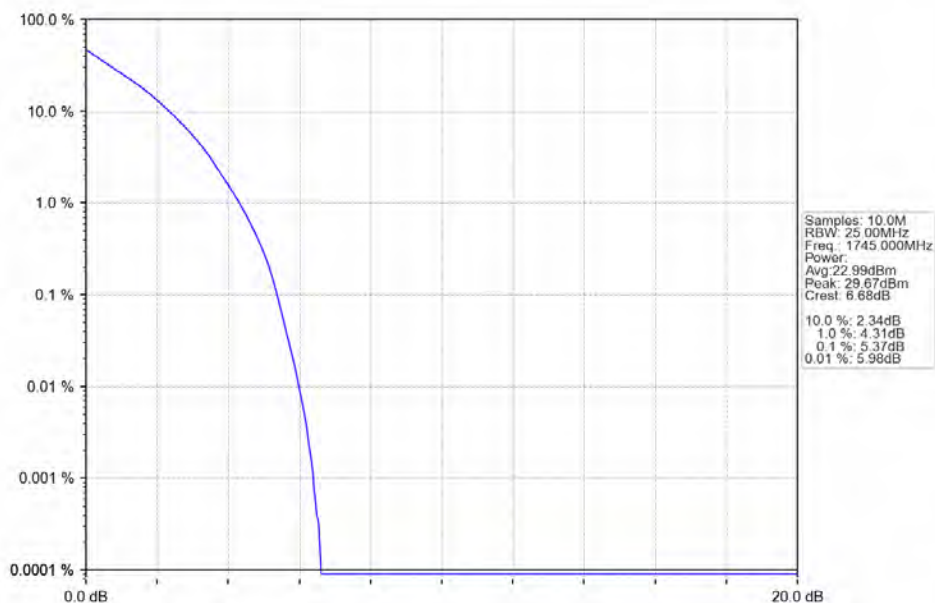
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



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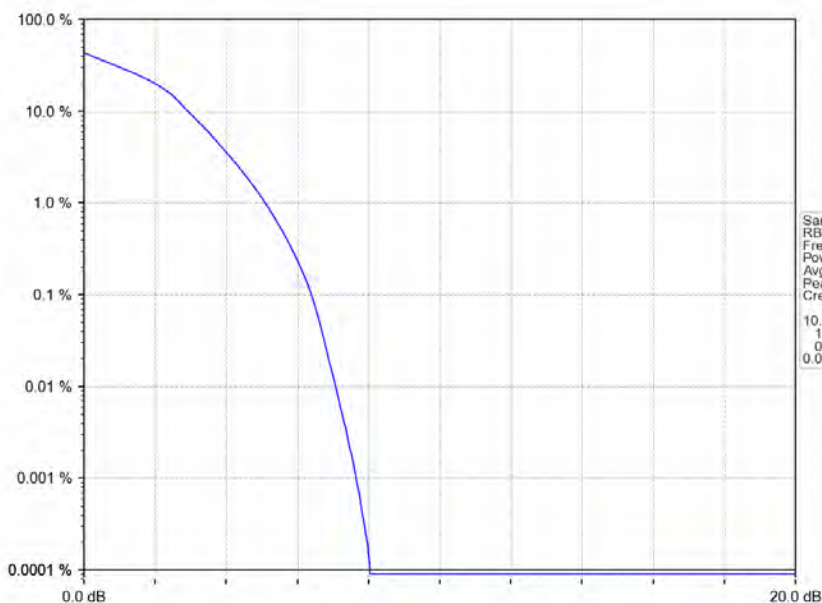
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Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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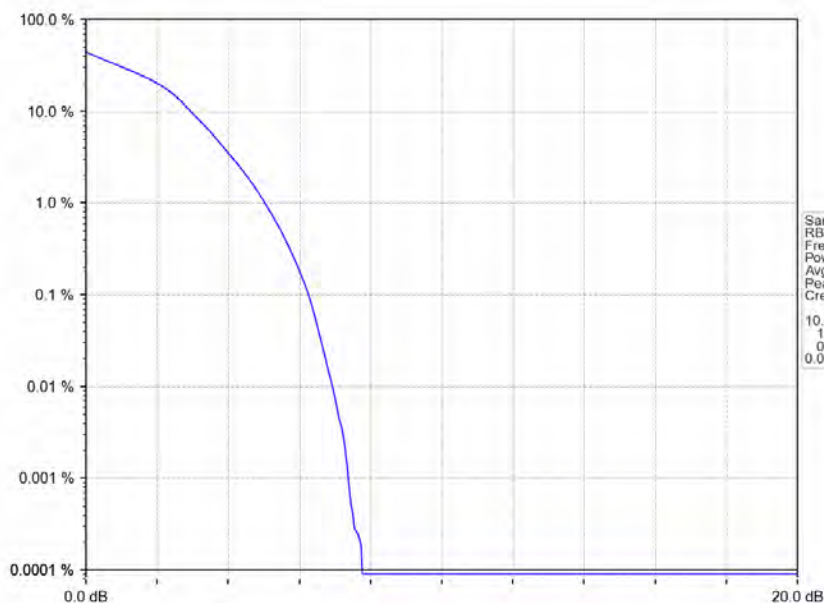
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Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



Samples: 10.0M
RBW: 25.00MHz
Freq: 1732.500MHz
Power
Avg: 21.94dBm
Peak: 29.87dBm
Crest: 7.93dB
10.0 %: 2.94dB
1.0 %: 5.03dB
0.1 %: 6.25dB
0.01 %: 6.92dB



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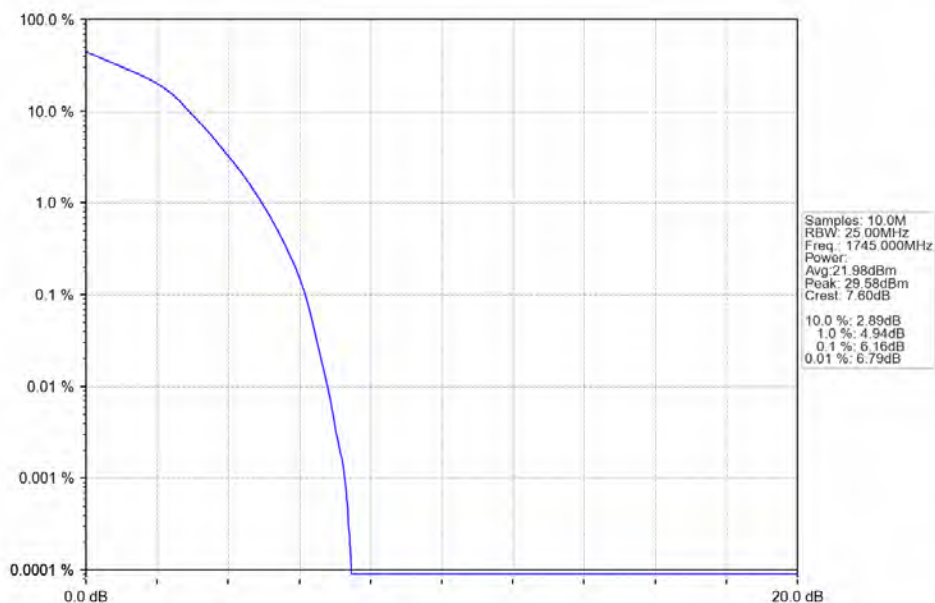
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5. Spurious Emission & Band Edge

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1710.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1754.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass



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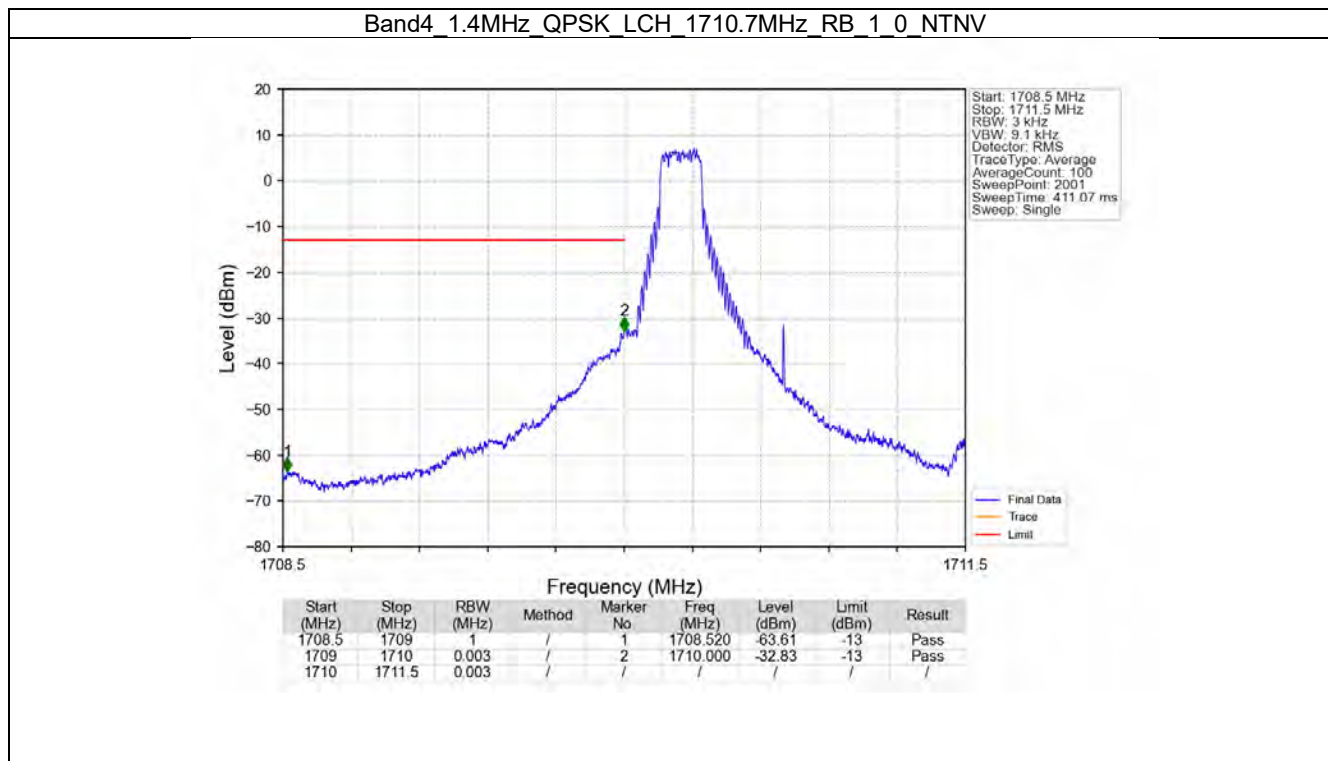
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5.1.2 Test Graph



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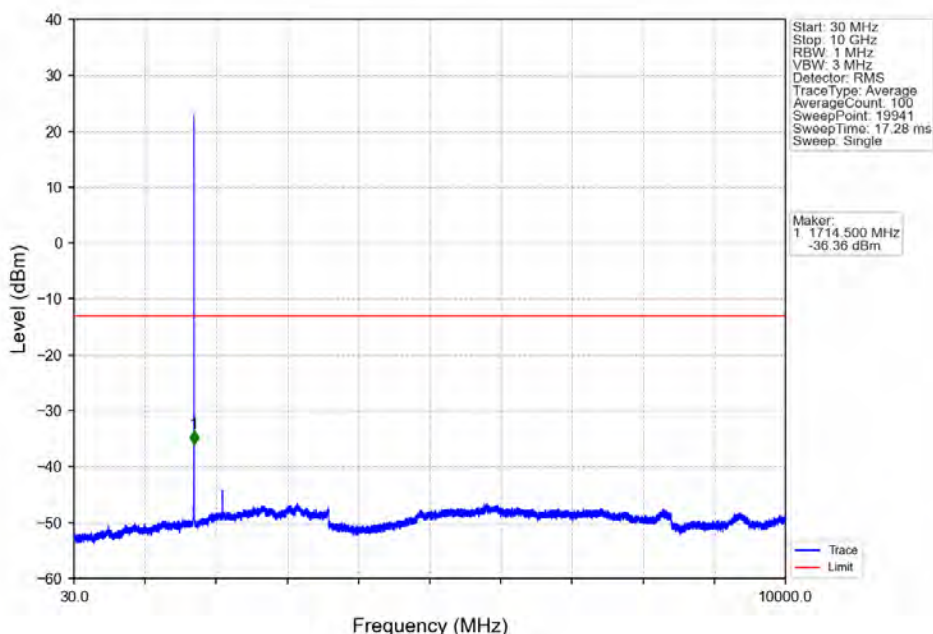
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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV



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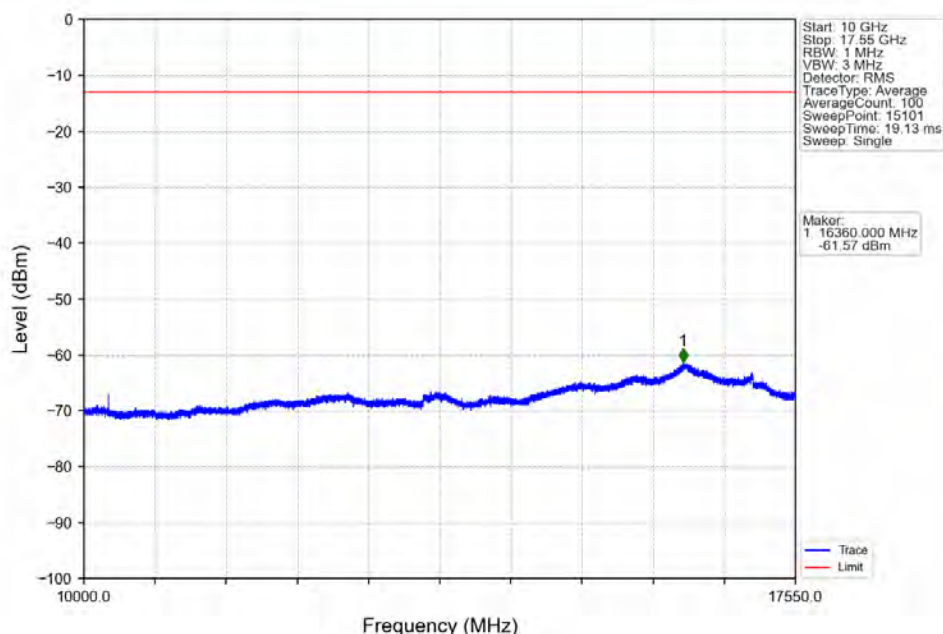
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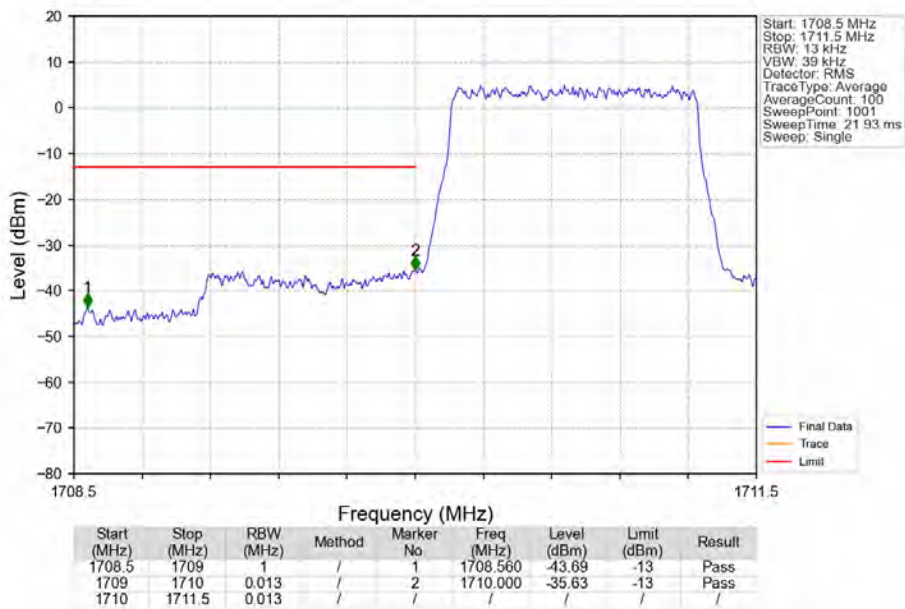
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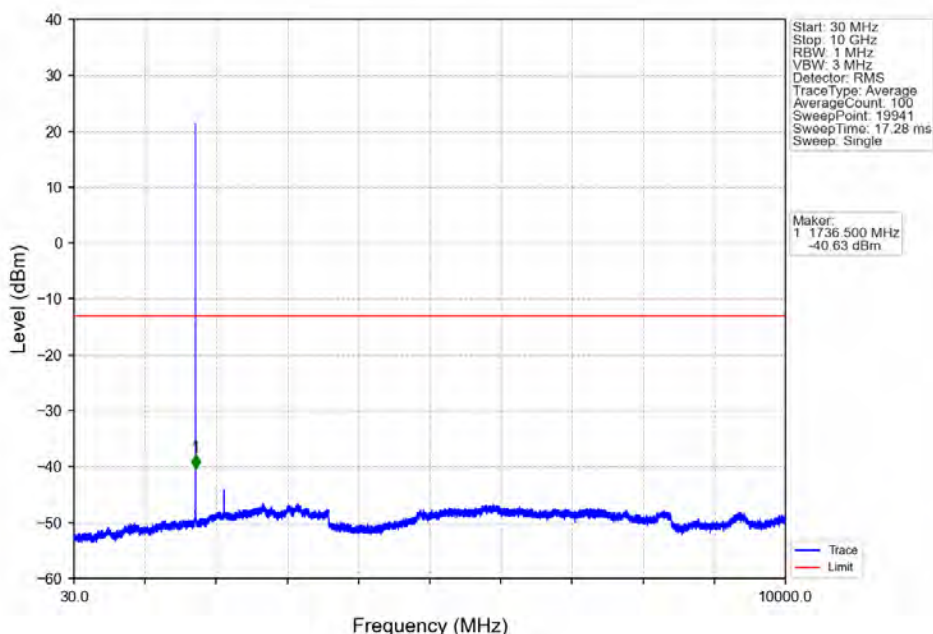
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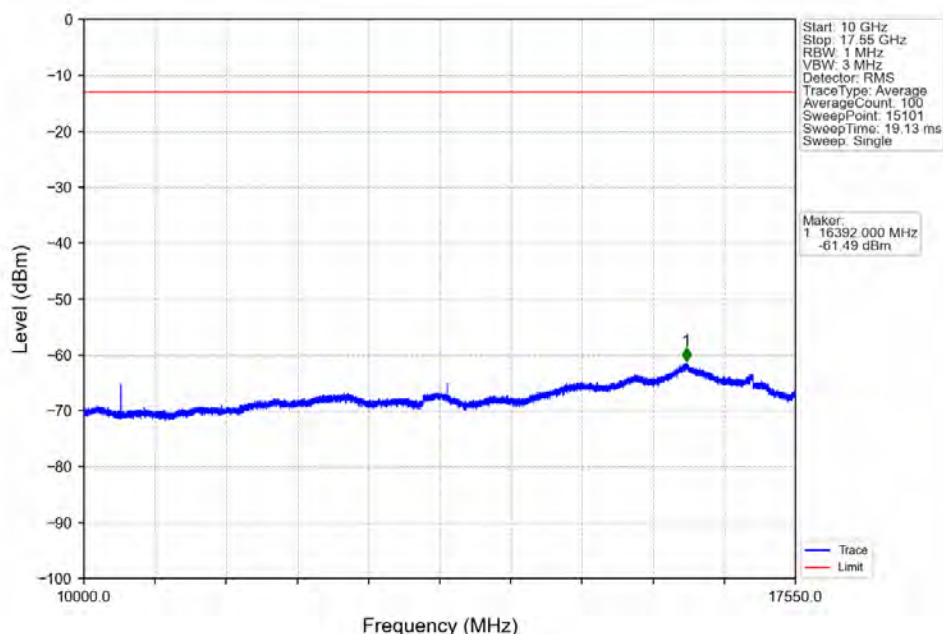
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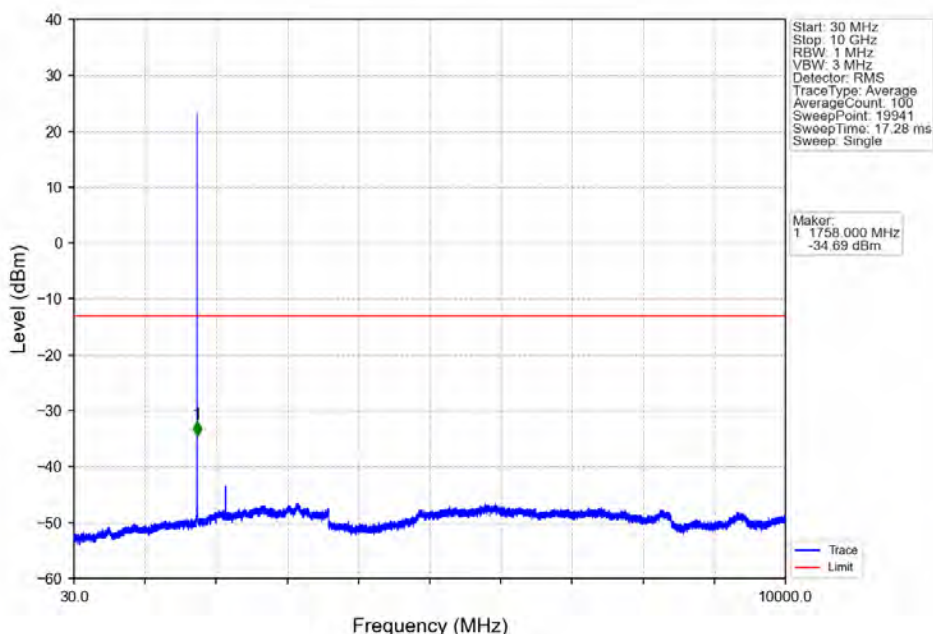
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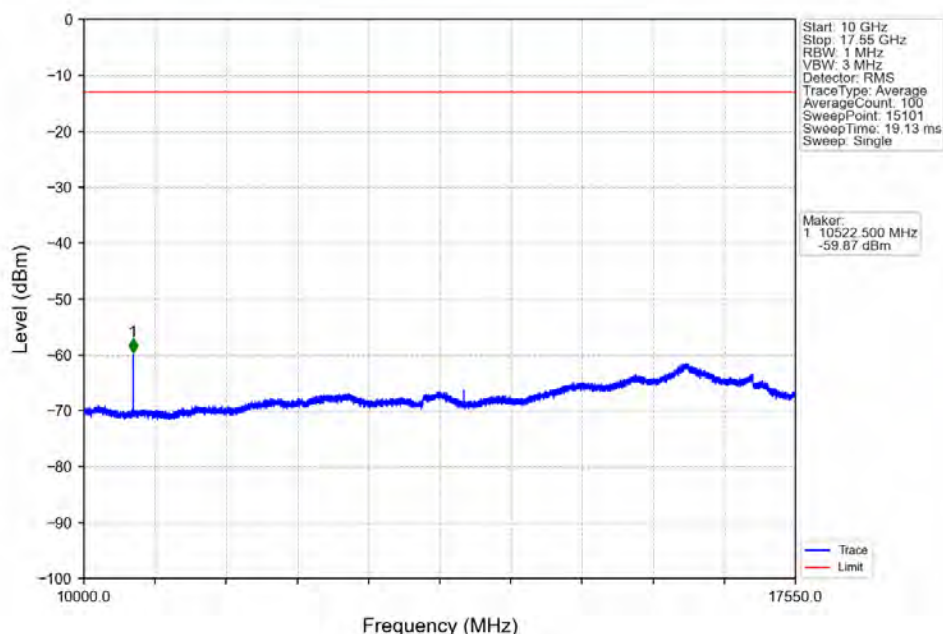
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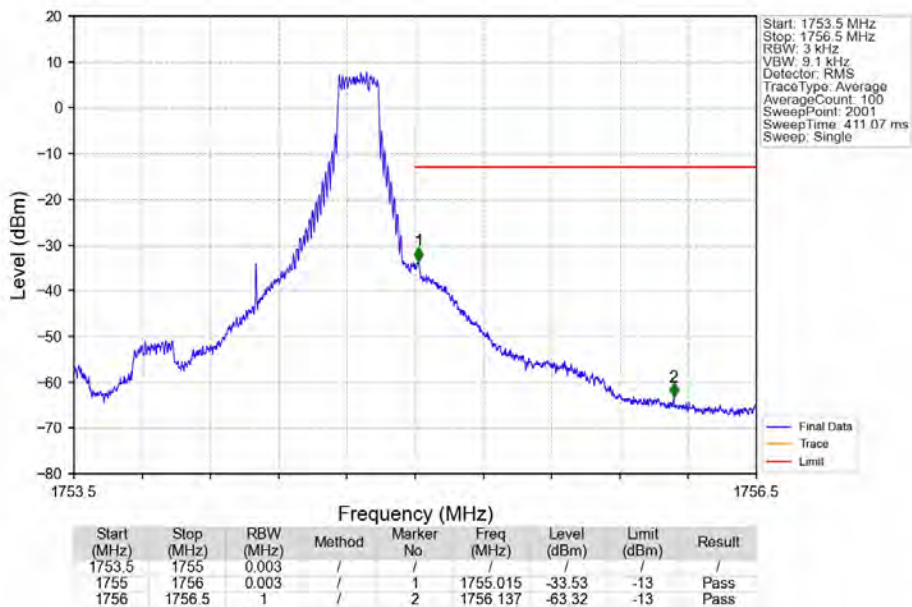
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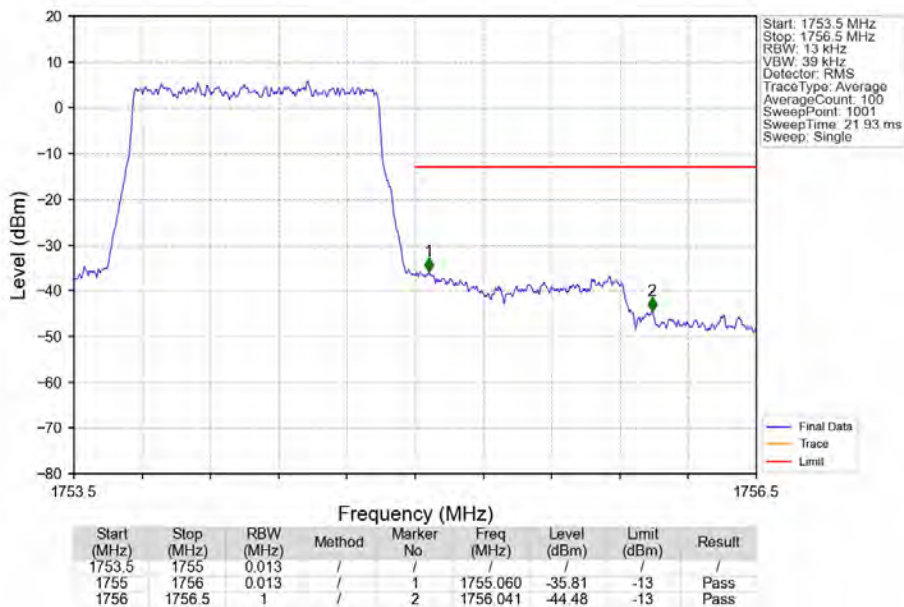
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5.2 B4_3MHz

5.2.1 Test Result

Band: 4 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1711.5	1	0	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1753.5	1	0	Refer To Test Graph	Pass
			14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph	Pass



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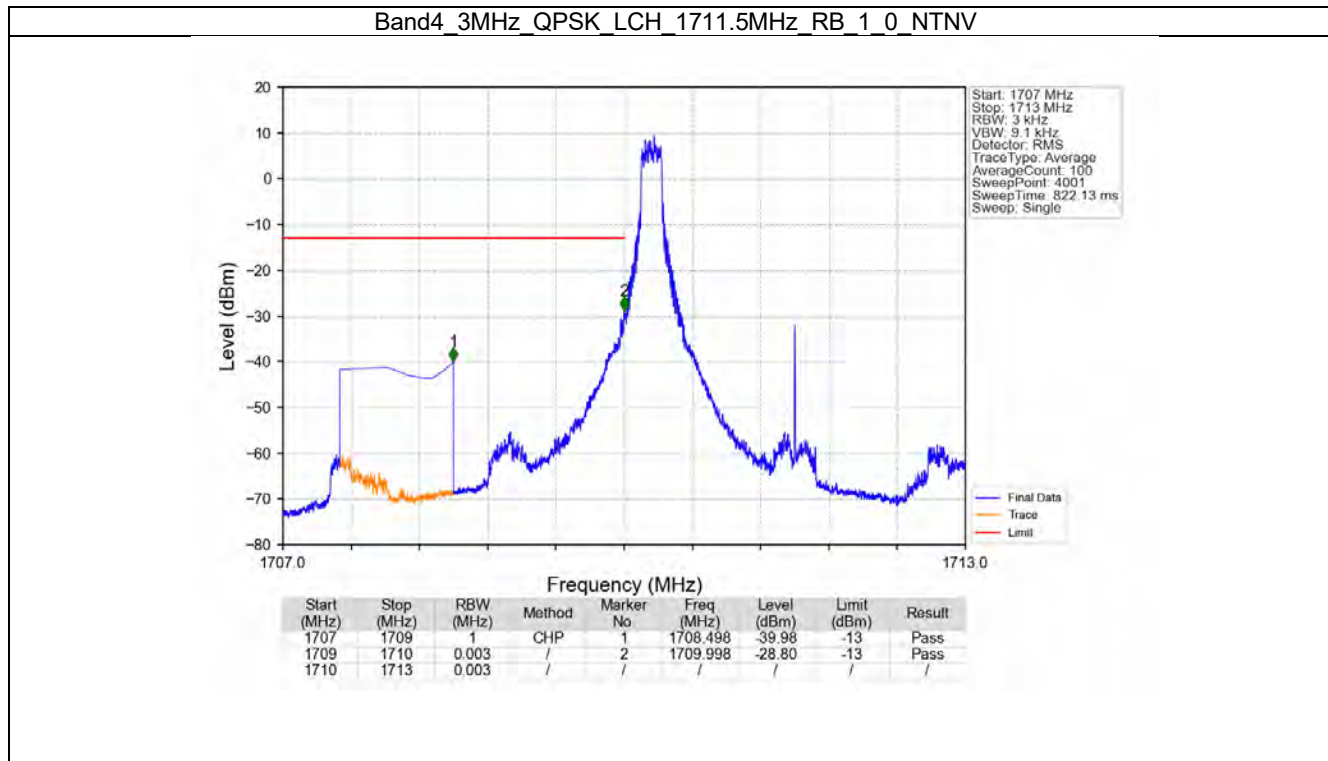
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5.2.2 Test Graph



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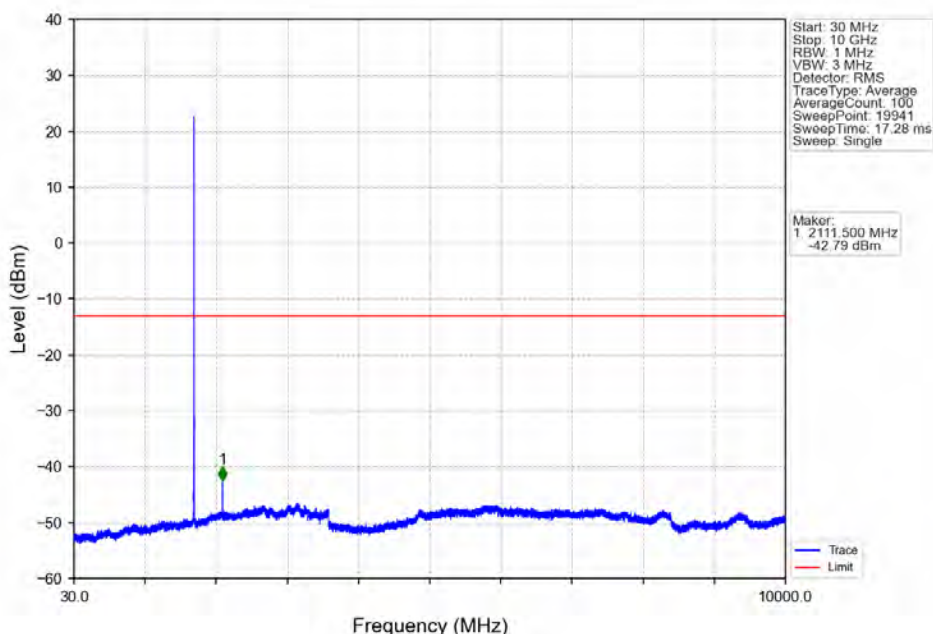
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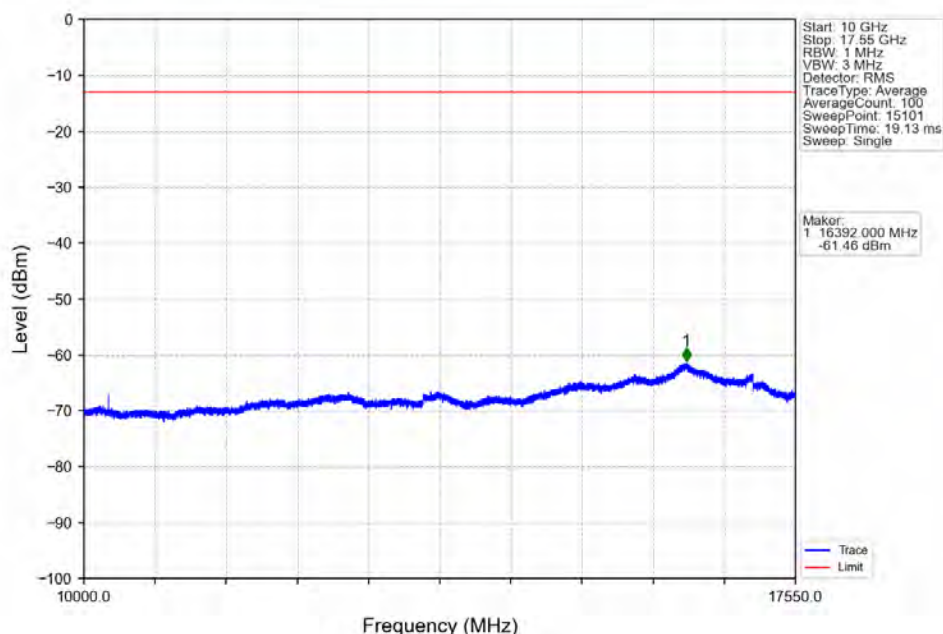
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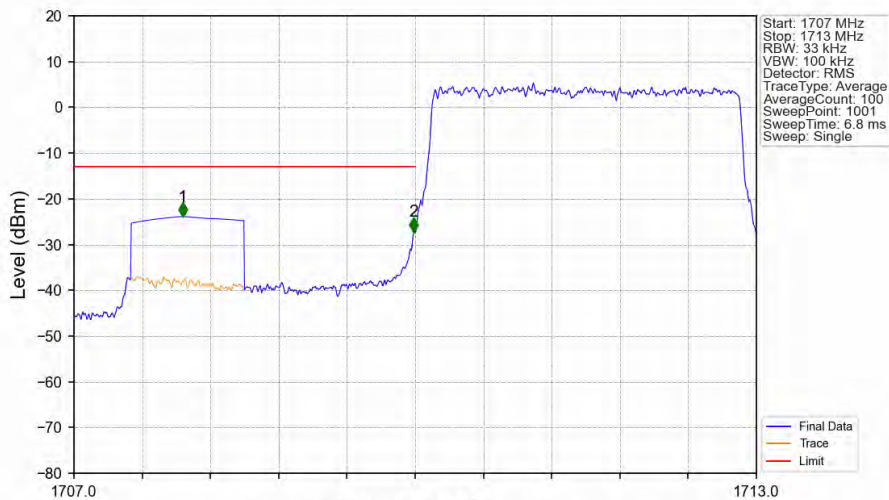
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1707.954	-23.87	-13	Pass
1709	1710	0.033	/	2	1709.988	-27.20	-13	Pass
1710	1713	0.033	/	/	/	/	/	/



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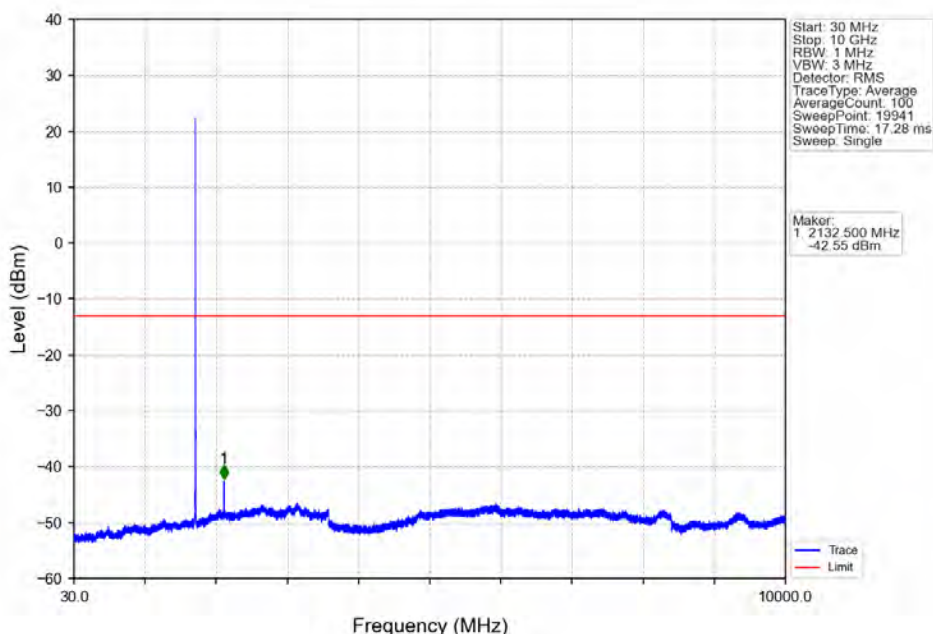
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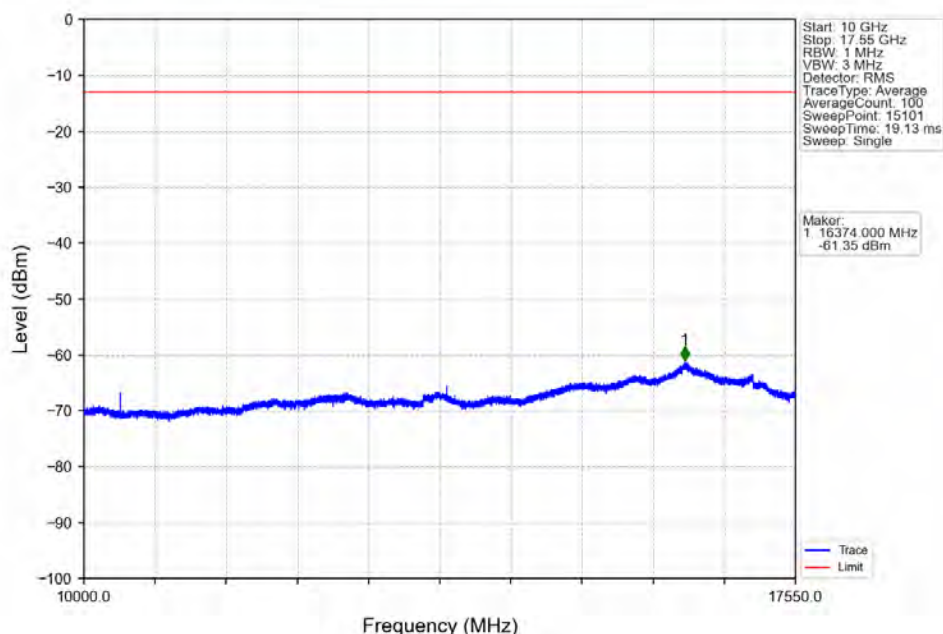
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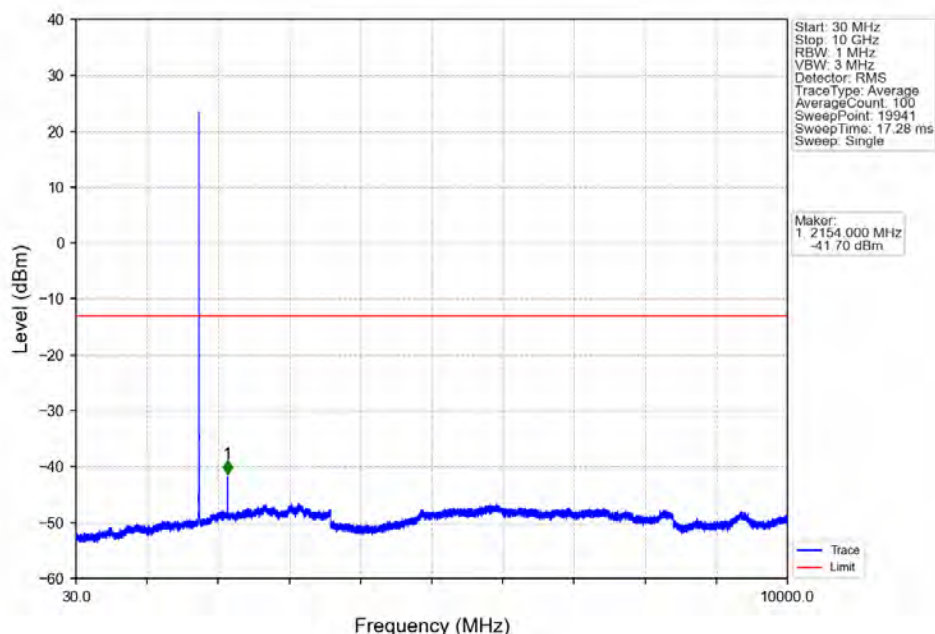
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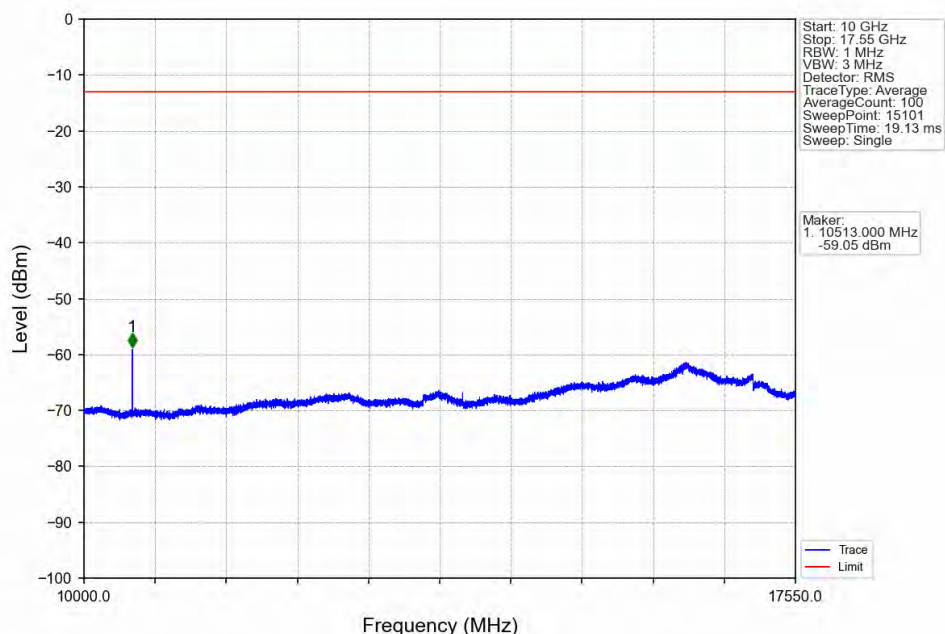
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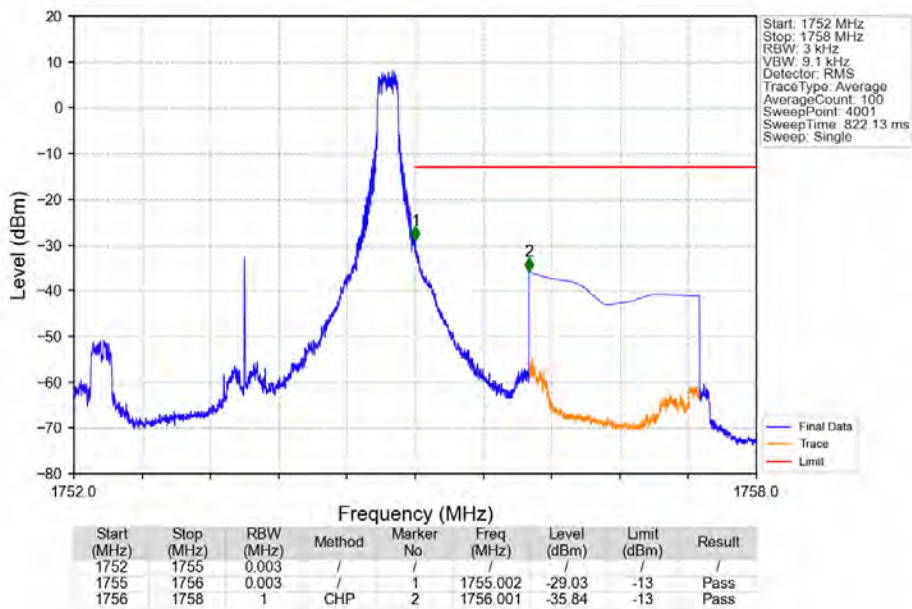
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



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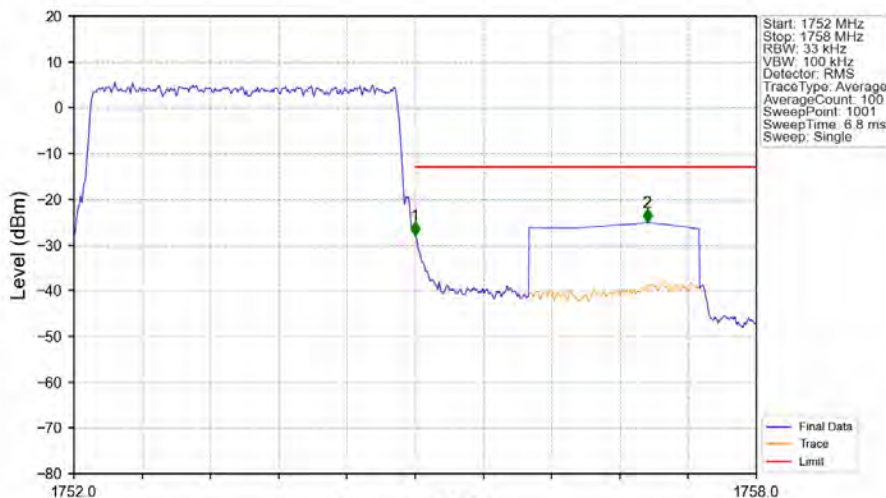
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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.033	/	1	1755.000	-28.02	-13	Pass
1755	1756	0.033	/	2	1757.040	-25.14	-13	Pass
1756	1758	1	CHP					



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5.3 B4_5MHz

5.3.1 Test Result

Band: 4 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1712.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1752.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



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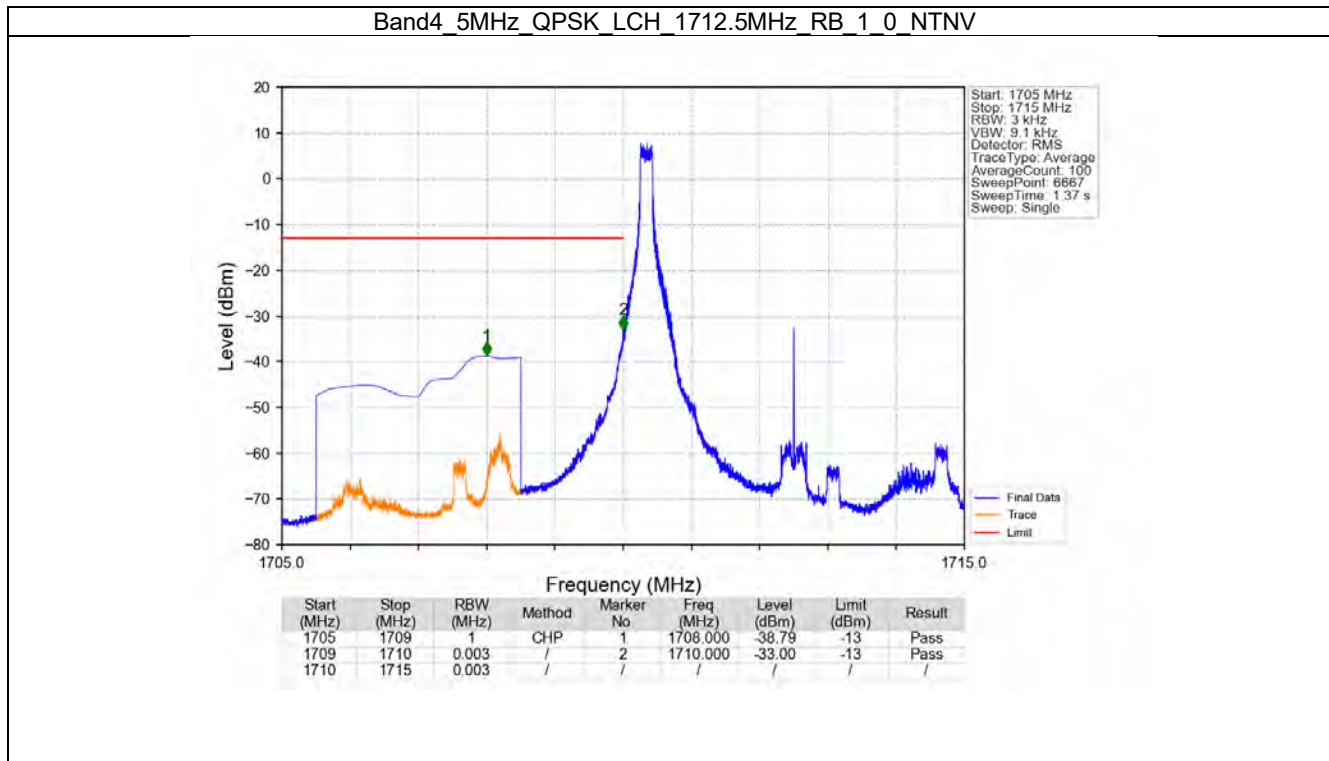
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5.3.2 Test Graph



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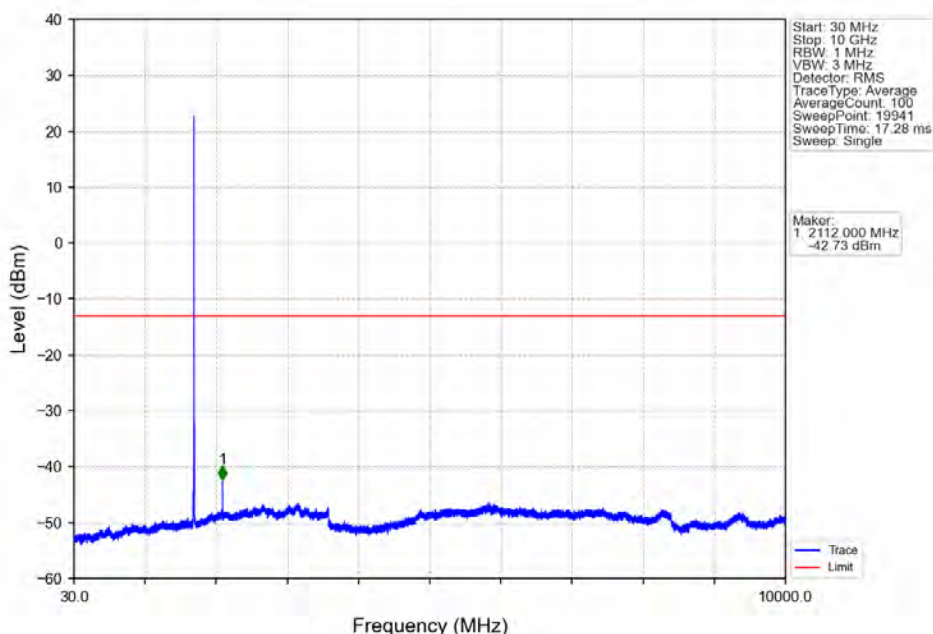
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Band4_5MHz_QPSK_LCH_1712.5MHz_RB_1_0_NTNV



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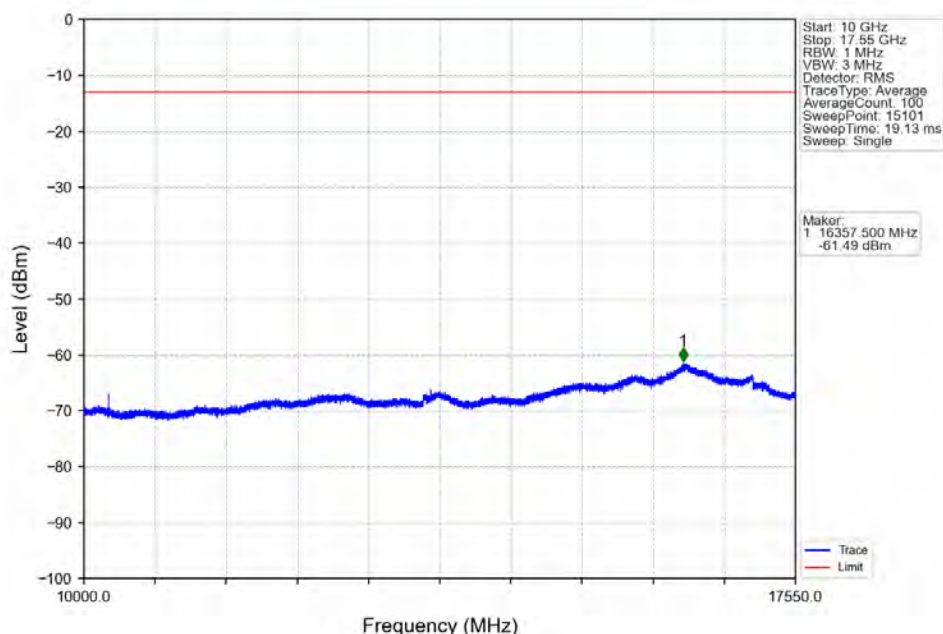
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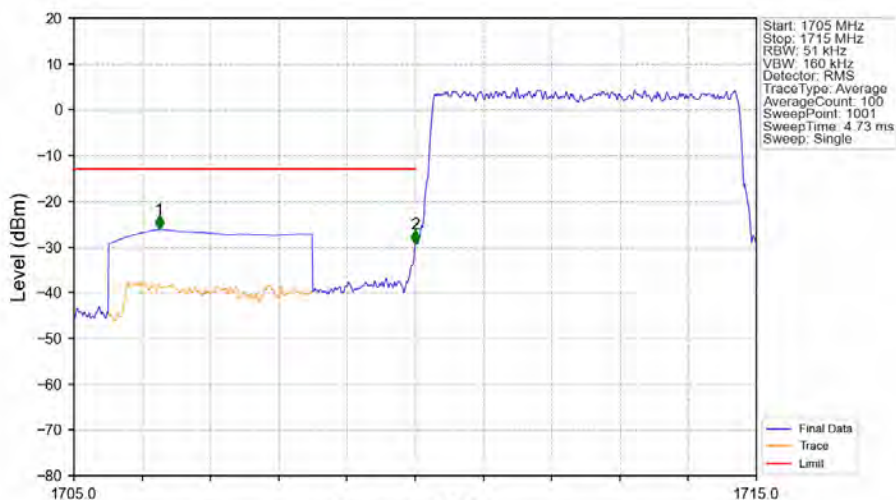
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Band4 5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1706.250	-26.23	-13	Pass
1709	1710	0.051	/	2	1710.000	-29.44	-13	Pass
1710	1715	0.051	/	/	/	/	/	/



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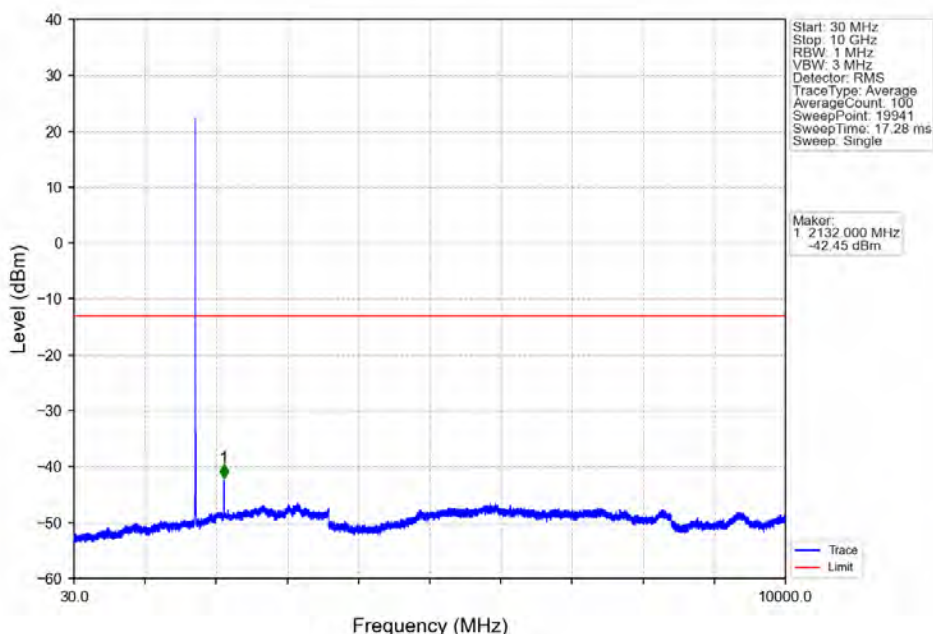
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Band4_5MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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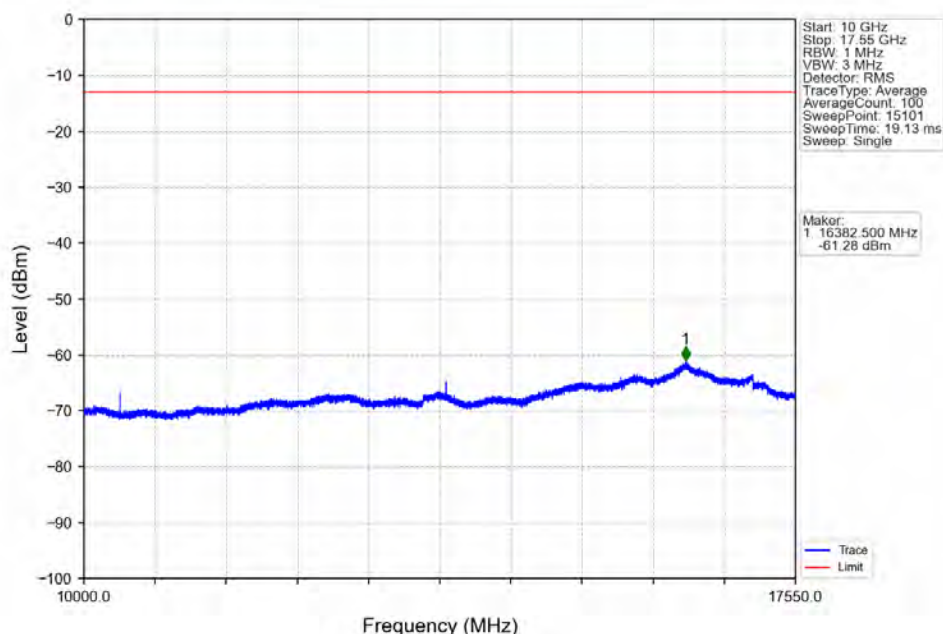
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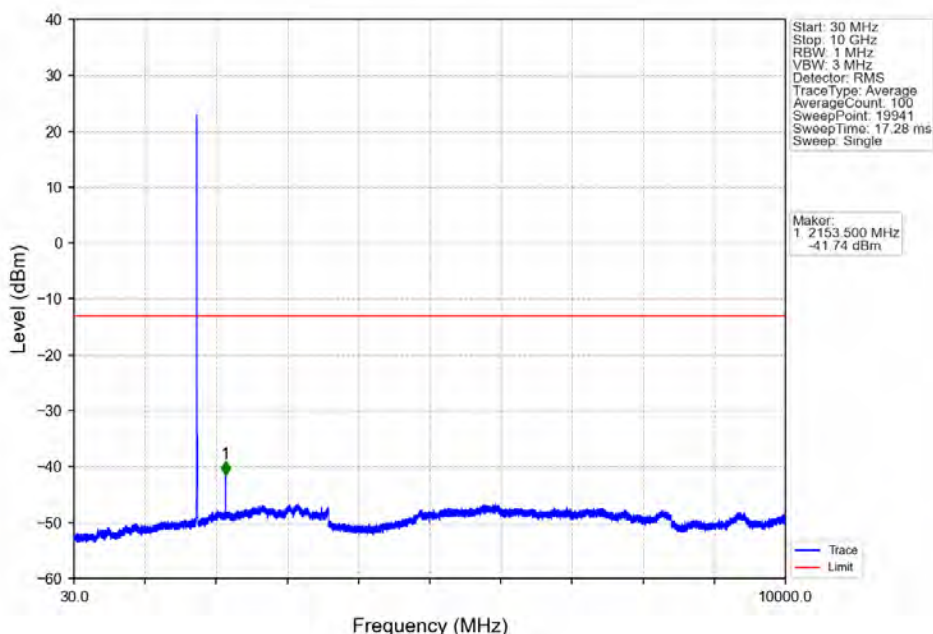
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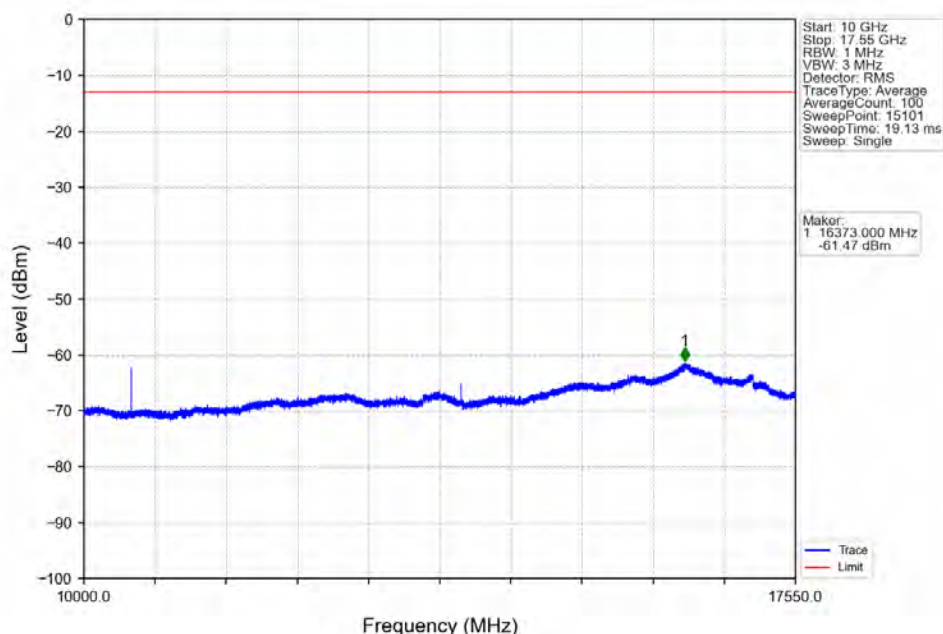
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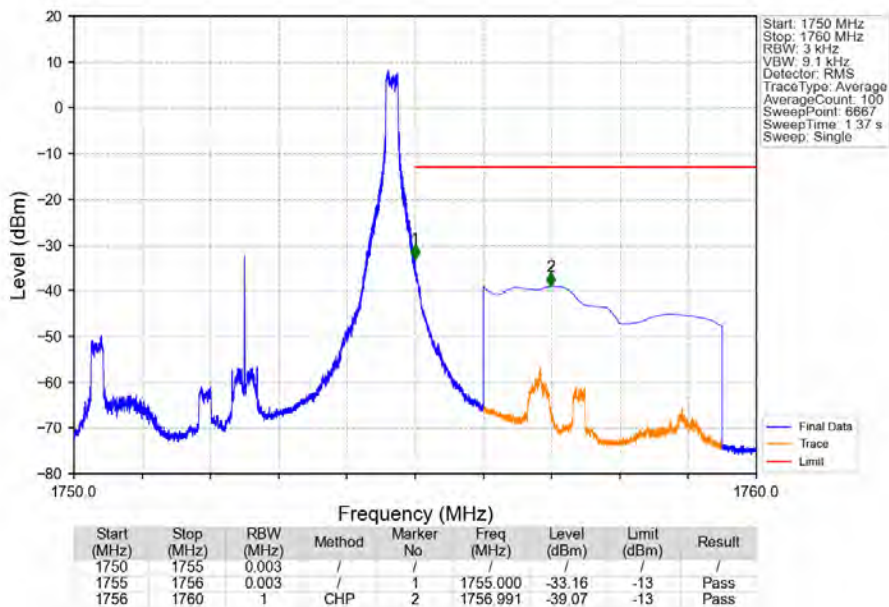
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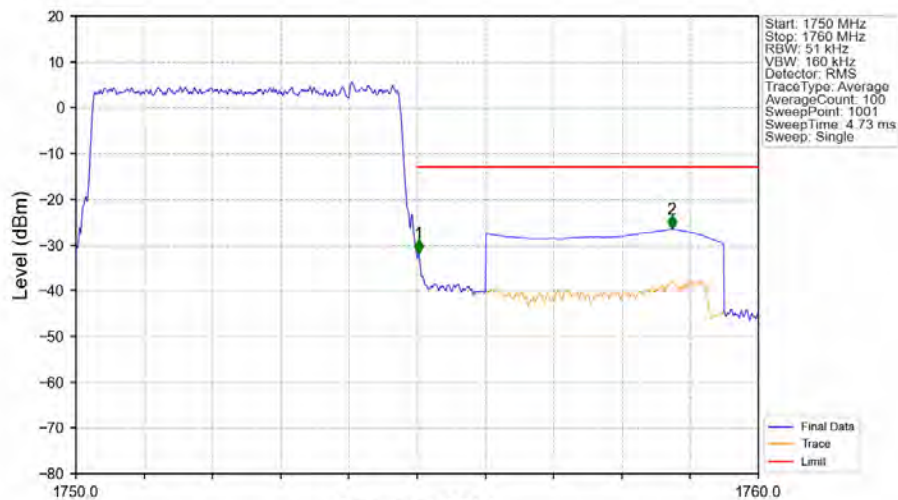
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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	/	/	/	/	/	/
1755	1756	0.051	/	1	1755.020	-31.87	-13	Pass
1756	1760	1	CHP	2	1758.730	-26.60	-13	Pass



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5.4 B4_10MHz

5.4.1 Test Result

Band: 4 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1715	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1750	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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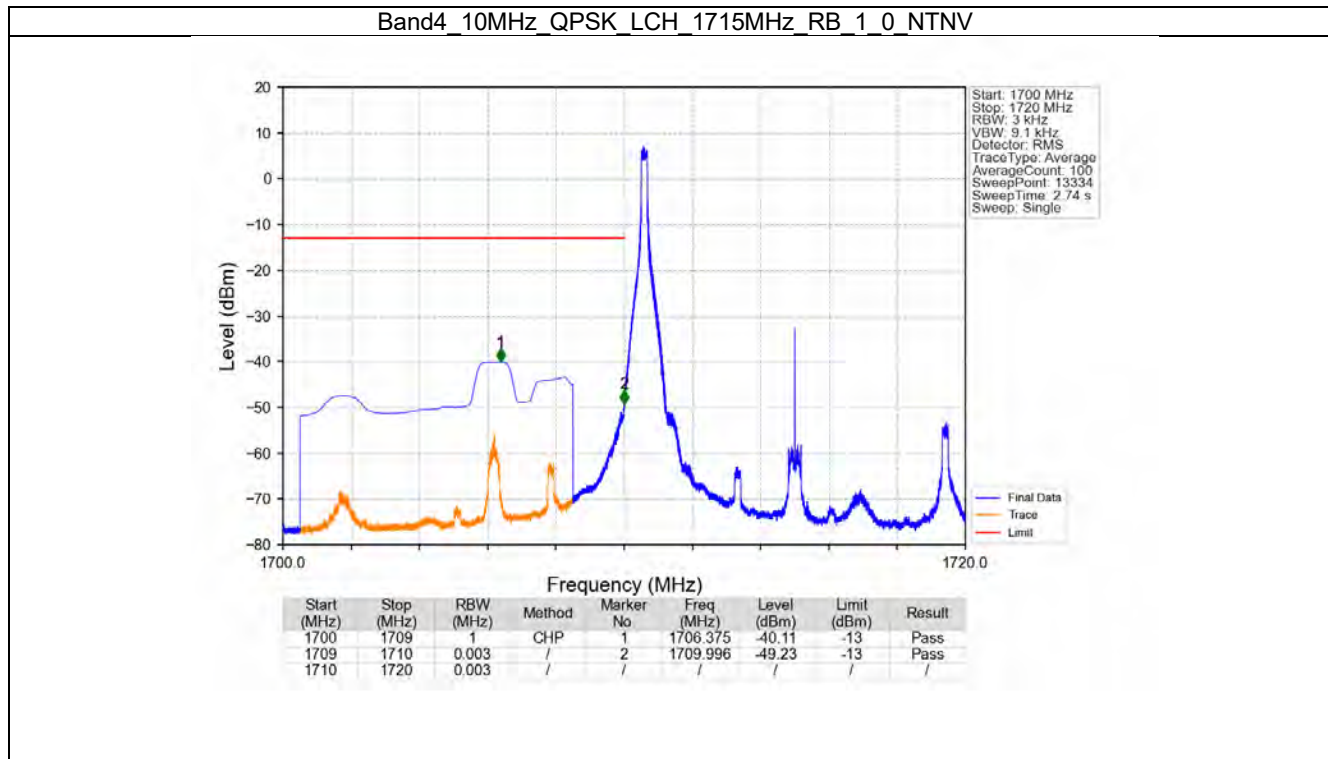
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5.4.2 Test Graph



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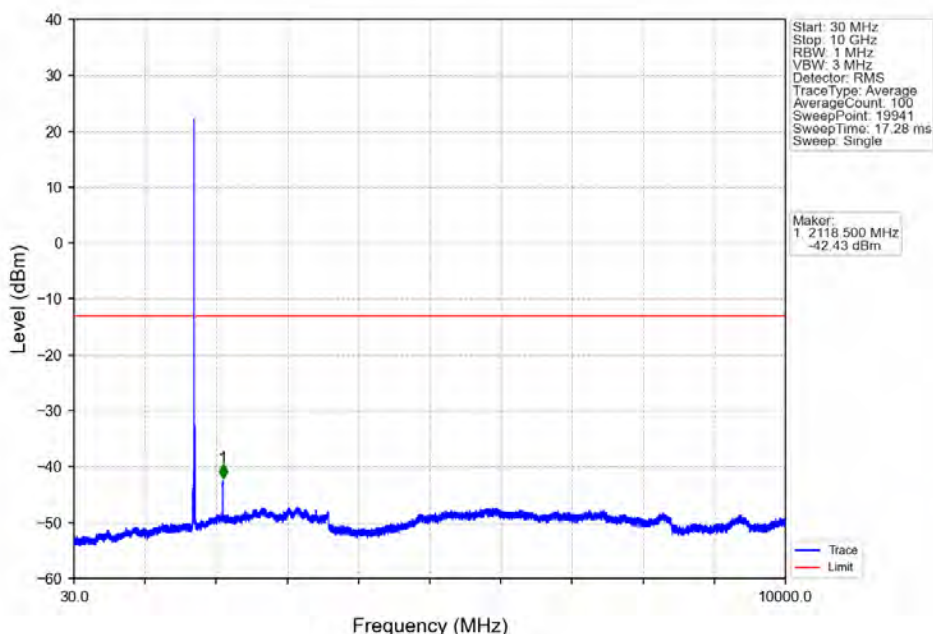
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Band4_10MHz_QPSK_LCH_1715MHz_RB_1_0_NTNV



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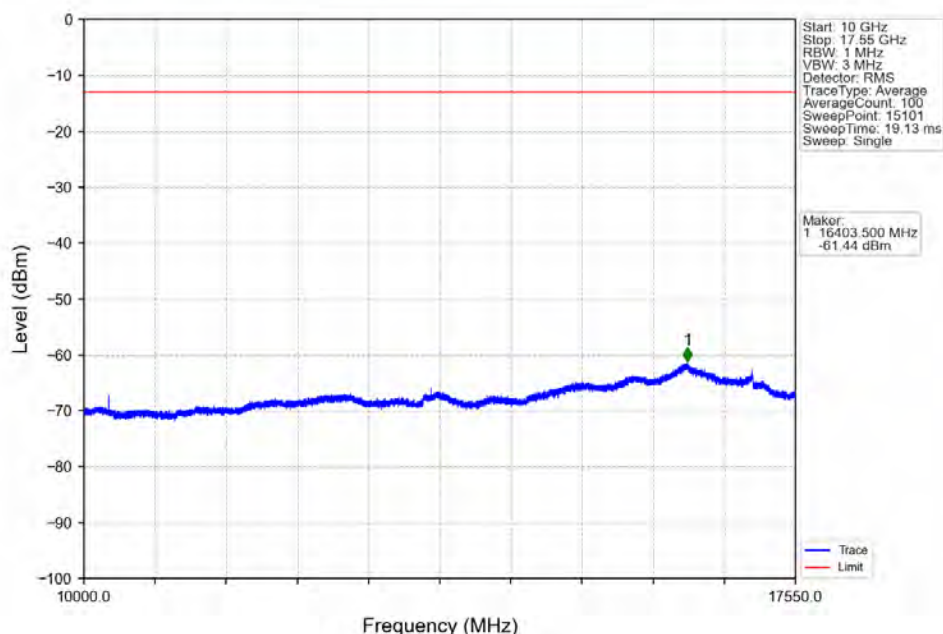
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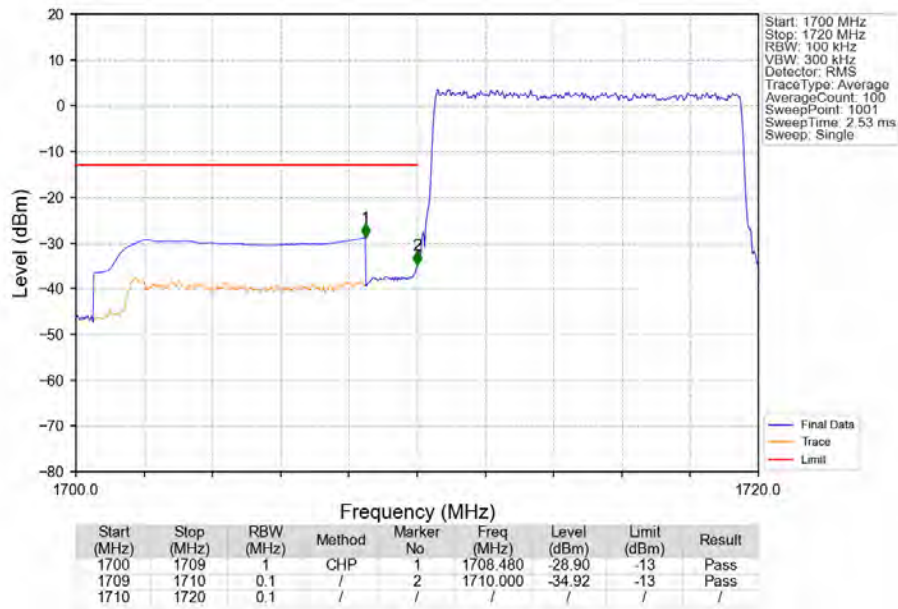
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Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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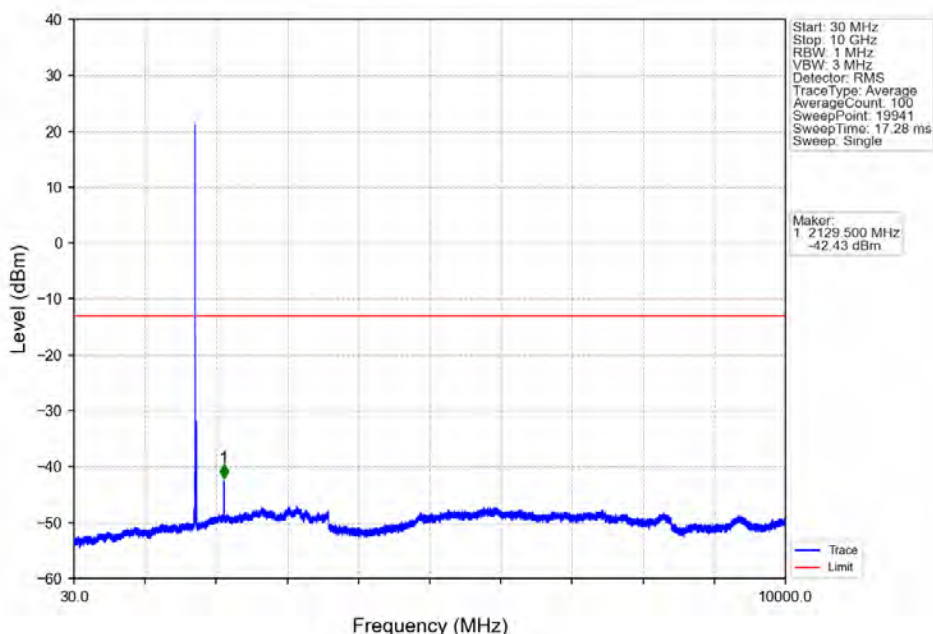
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Band4_10MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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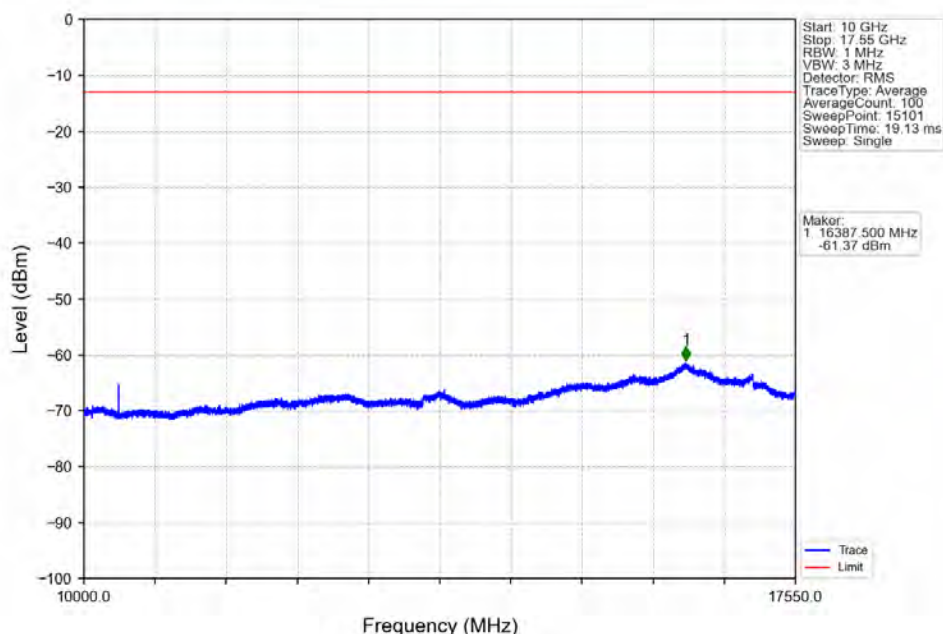
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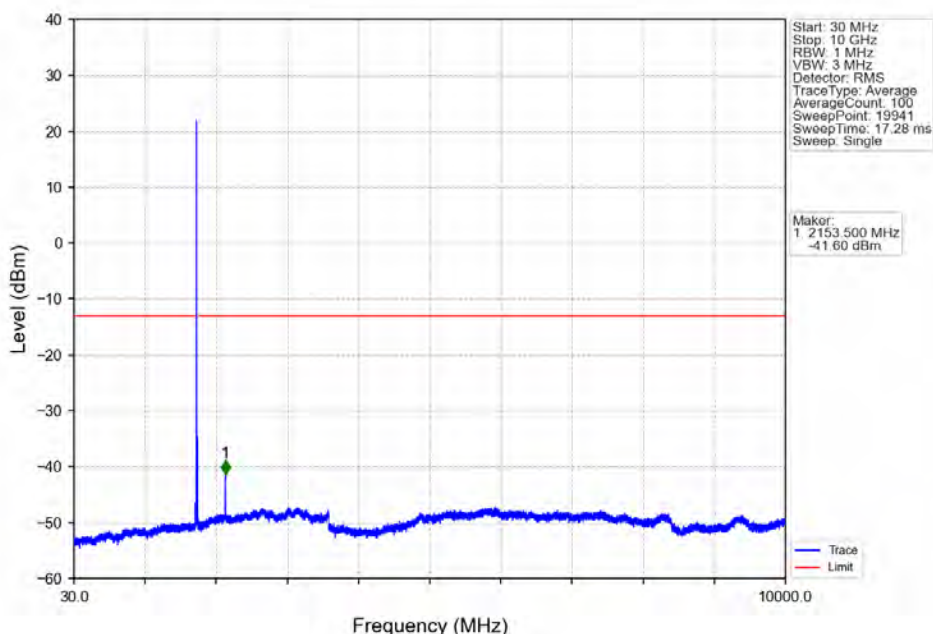
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Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



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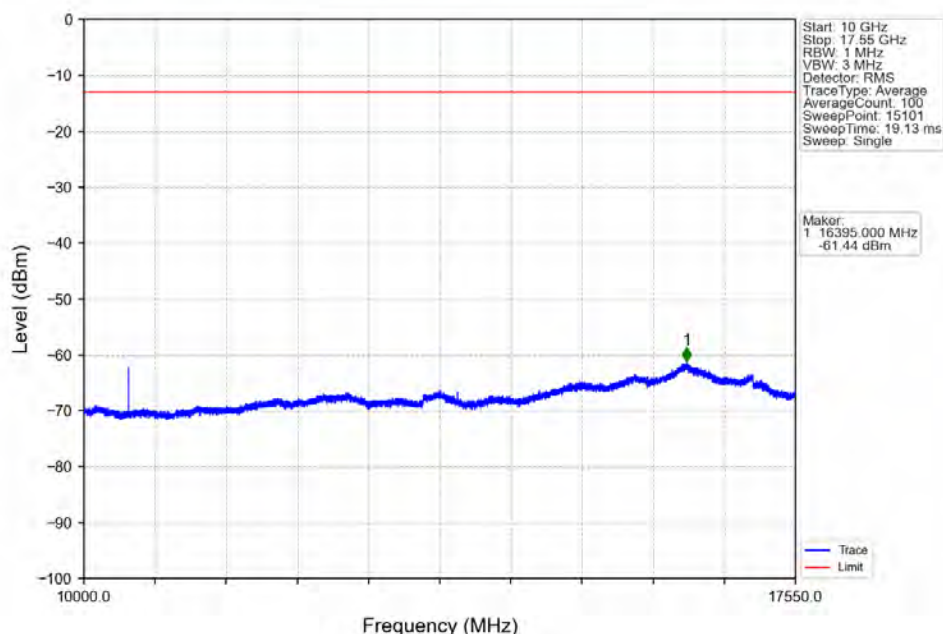
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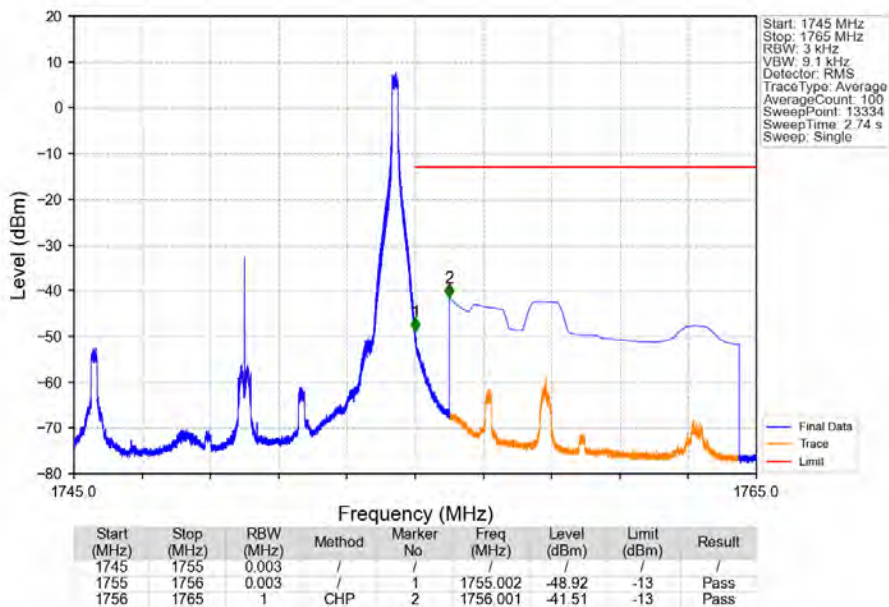
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Band4 10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



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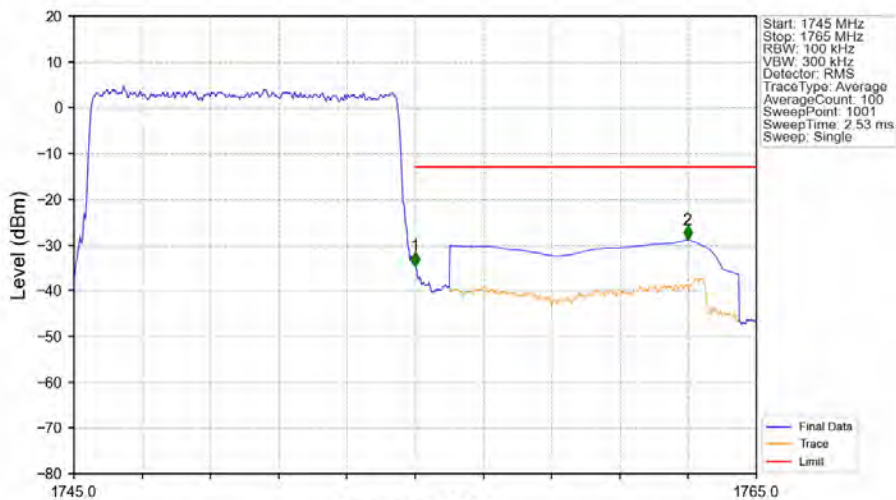
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Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.1	/	/	/	/	/	/
1755	1756	0.1	/	1	1755.000	-34.62	-13	Pass
1756	1765	1	CHP	2	1762.980	-28.91	-13	Pass



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5.5 B4_15MHz

5.5.1 Test Result

Band: 4 / Bandwidth: 15MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1717.5	1	0	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1747.5	1	0	Refer To Test Graph	Pass
			74	Refer To Test Graph	Pass
		75	0	Refer To Test Graph	Pass



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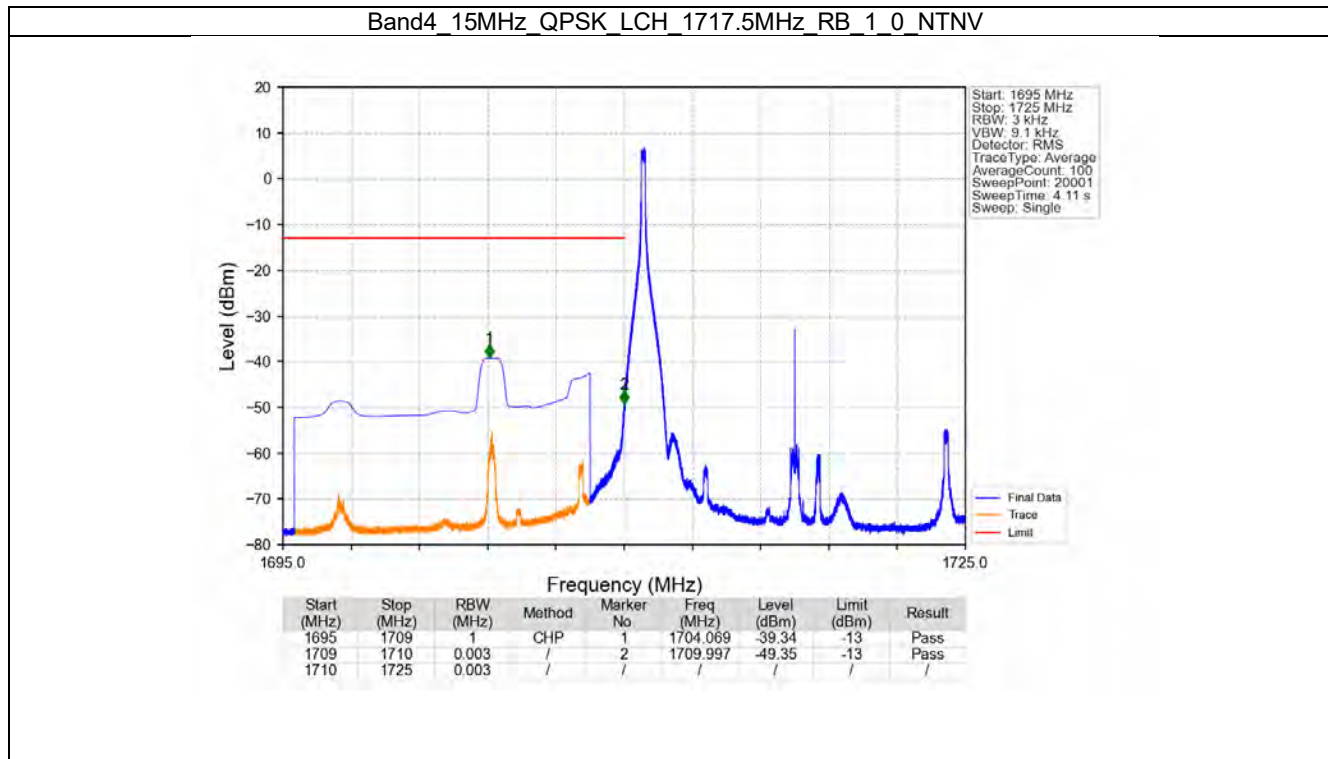
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5.5.2 Test Graph



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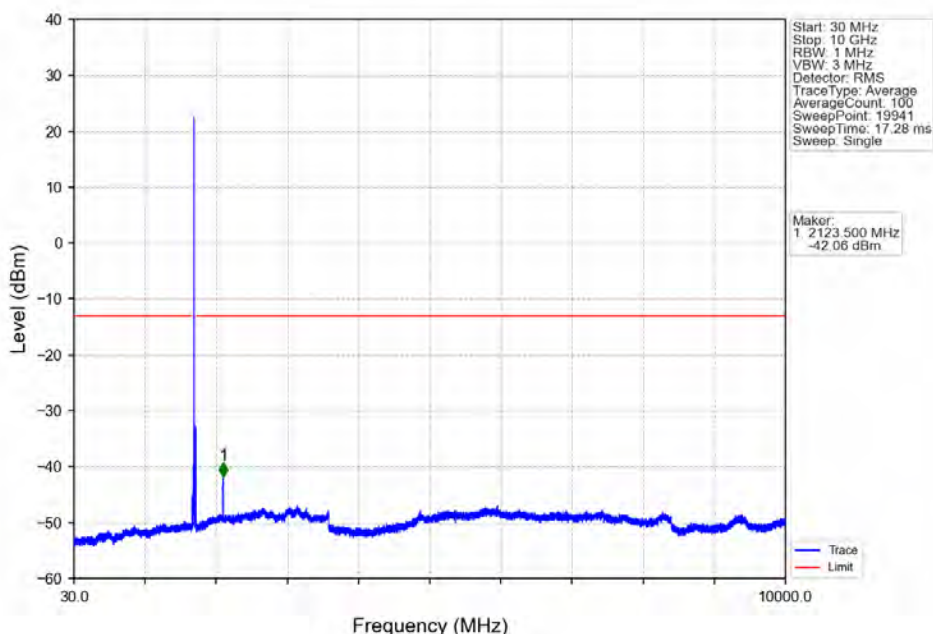
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_1_0_NTNV



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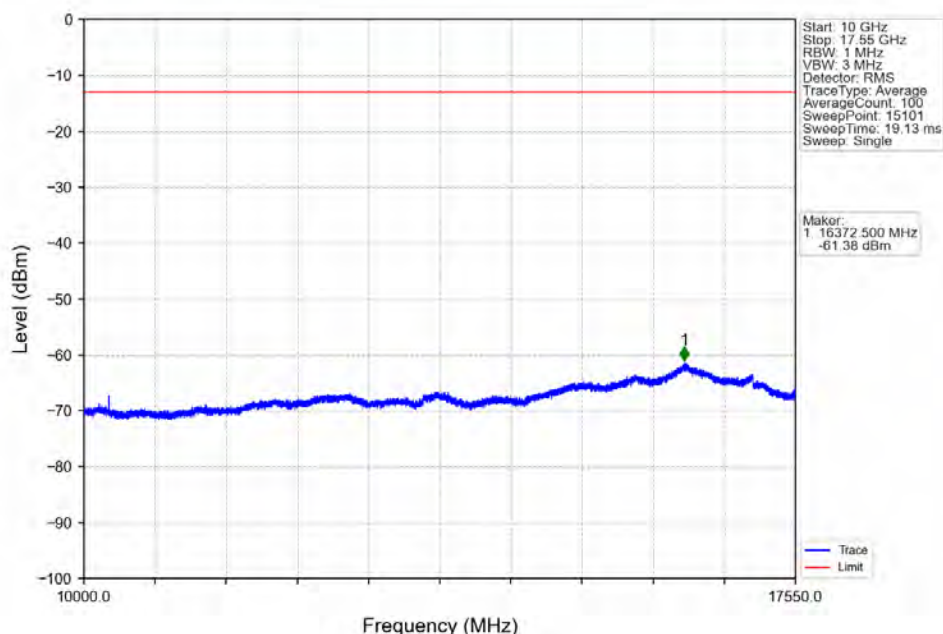
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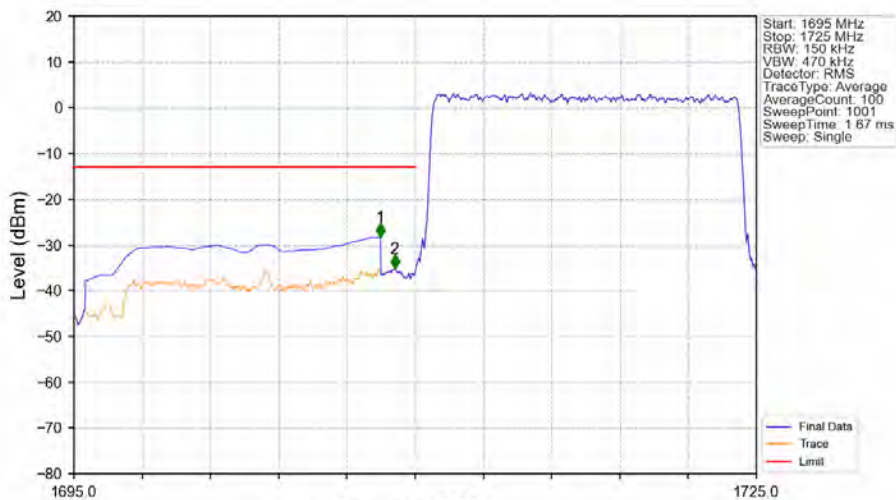
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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	0.15	CHP	1	1708.470	-28.34	-13	Pass
1709	1710	0.15	/	2	1709.100	-35.24	-13	Pass
1710	1725	0.15	/	/	/	/	/	/



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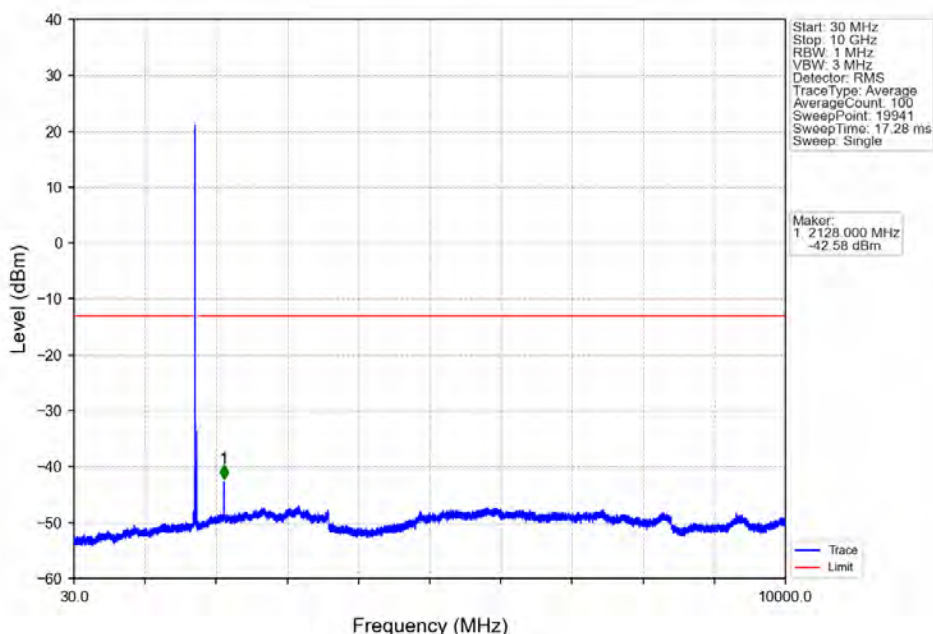
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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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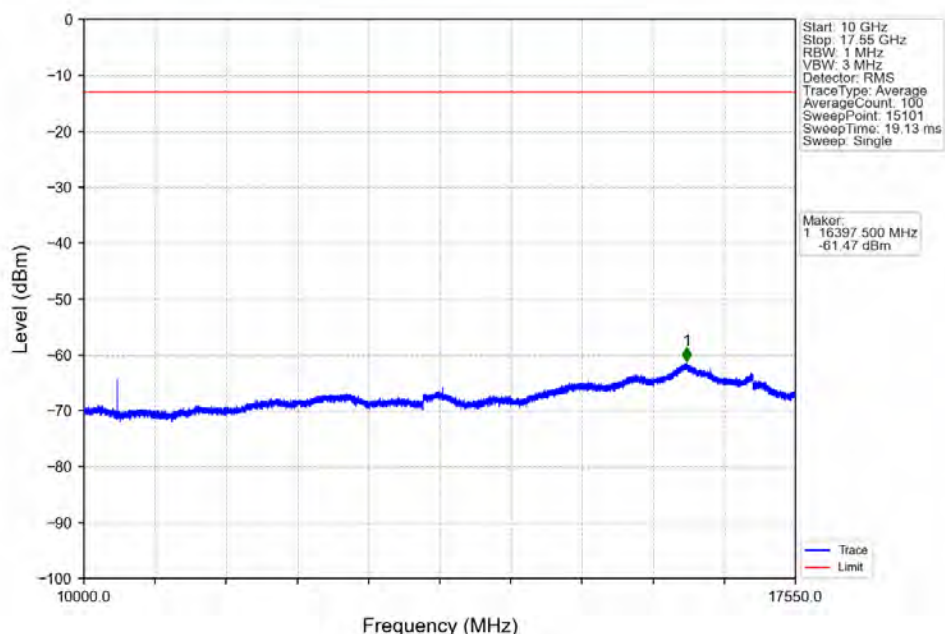
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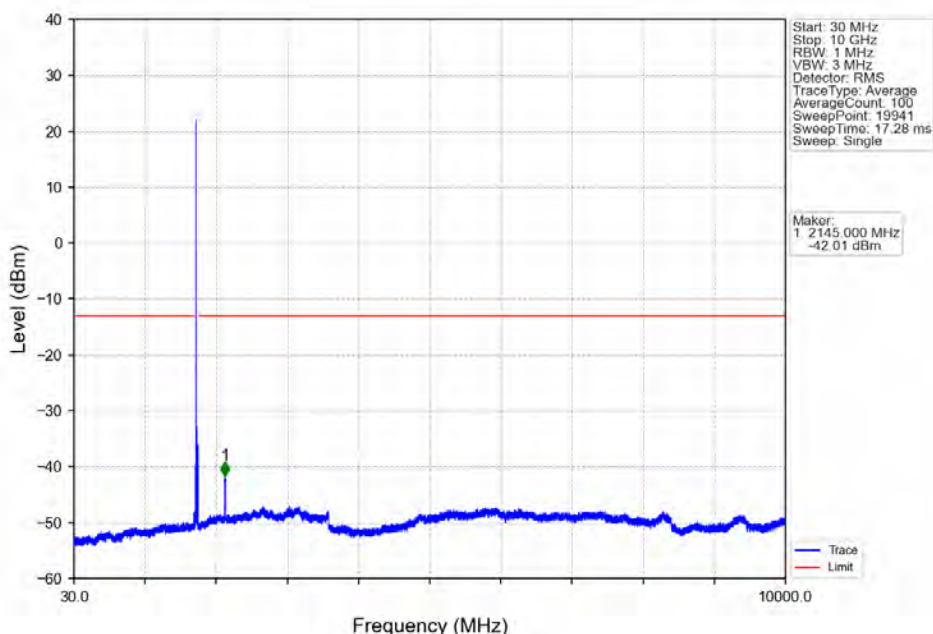
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



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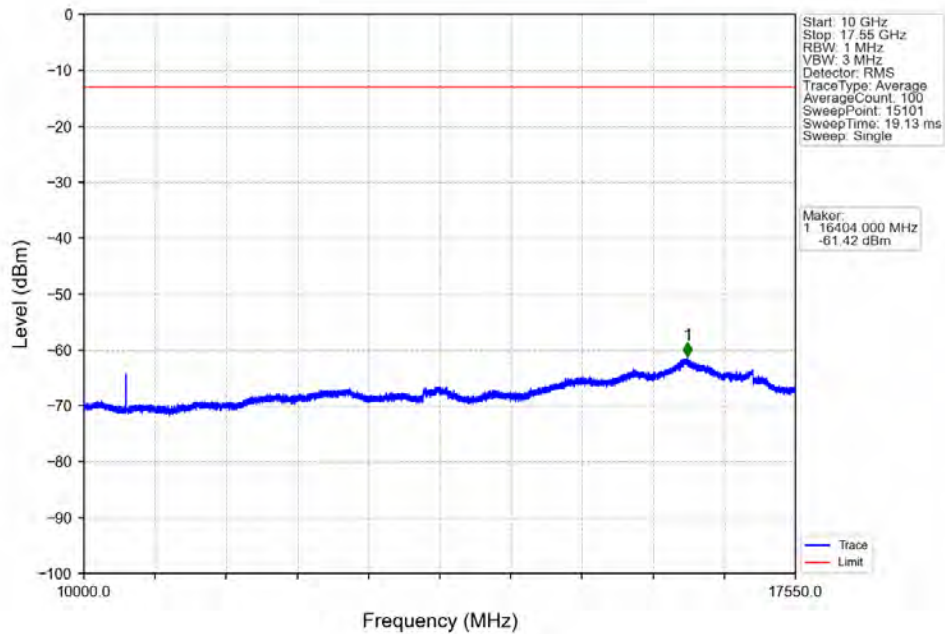
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_0_NTNV



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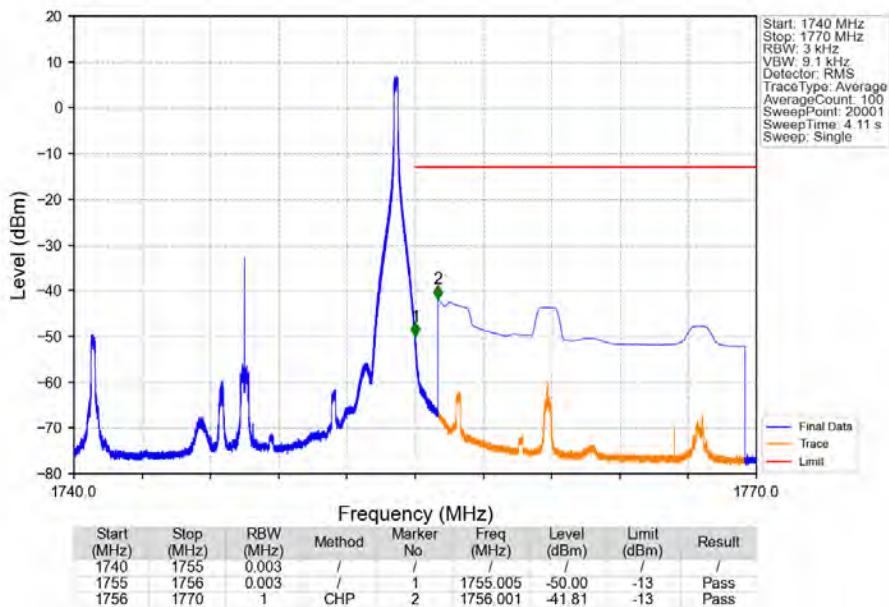
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_1_74_NTNV



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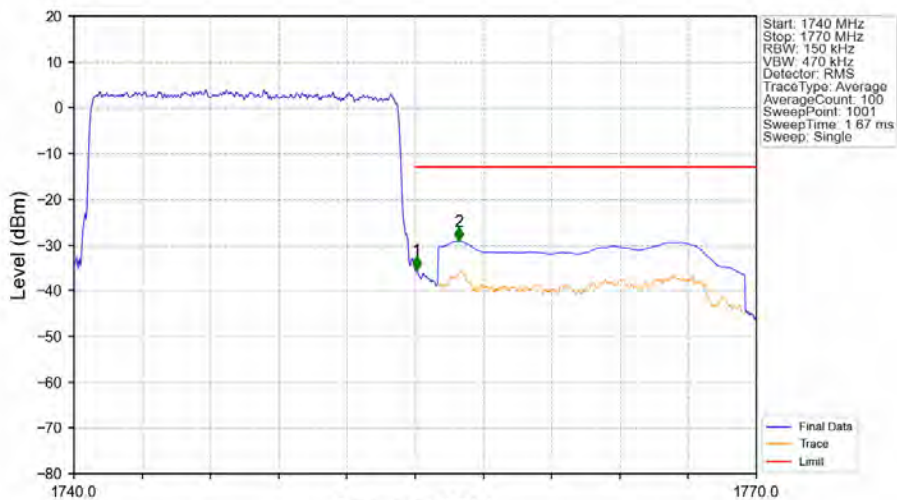
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Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.15	/	/	/	/	/	/
1755	1756	0.15	/	1	1755.060	-35.59	-13	Pass
1756	1770	1	CHP	2	1756.920	-29.17	-13	Pass



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5.6 B4_20MHz

5.6.1 Test Result

Band: 4 / Bandwidth: 20MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1720	1	0	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1745	1	0	Refer To Test Graph	Pass
			99	Refer To Test Graph	Pass
		100	0	Refer To Test Graph	Pass



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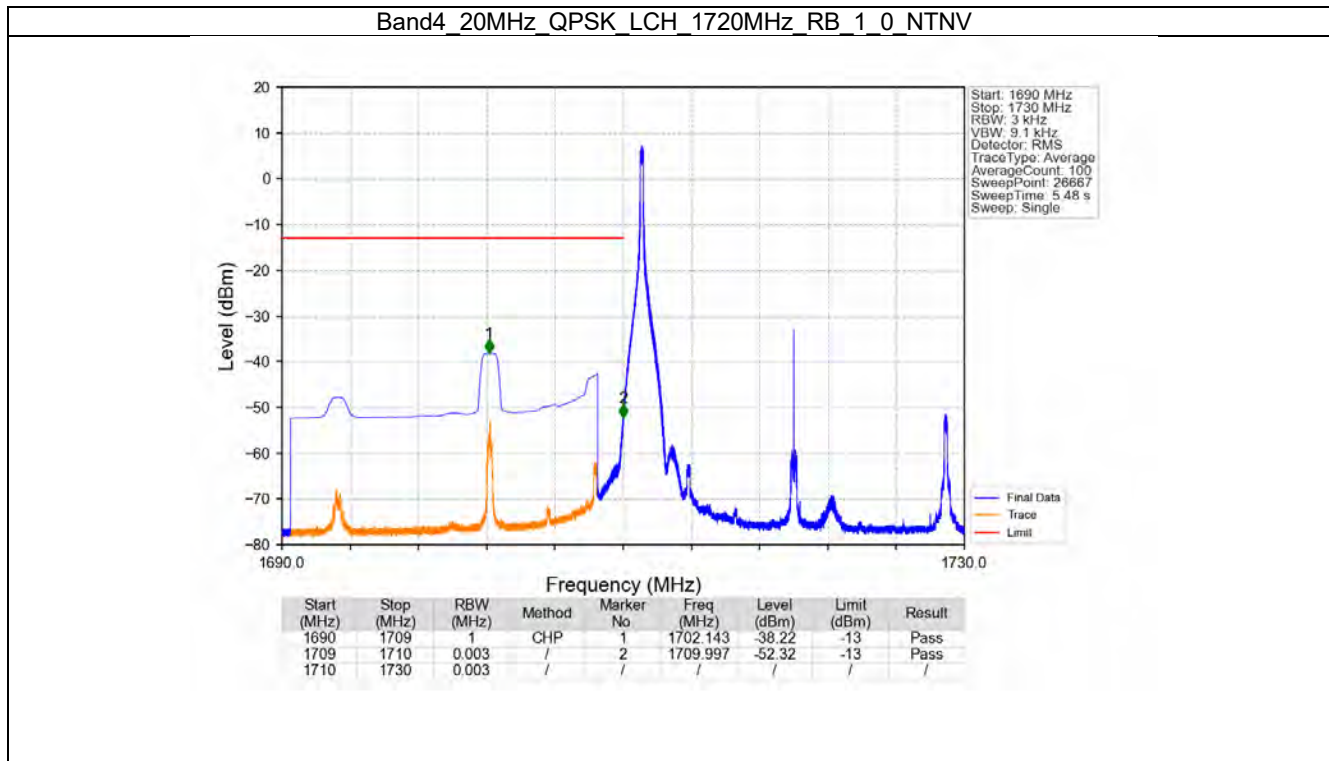
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5.6.2 Test Graph



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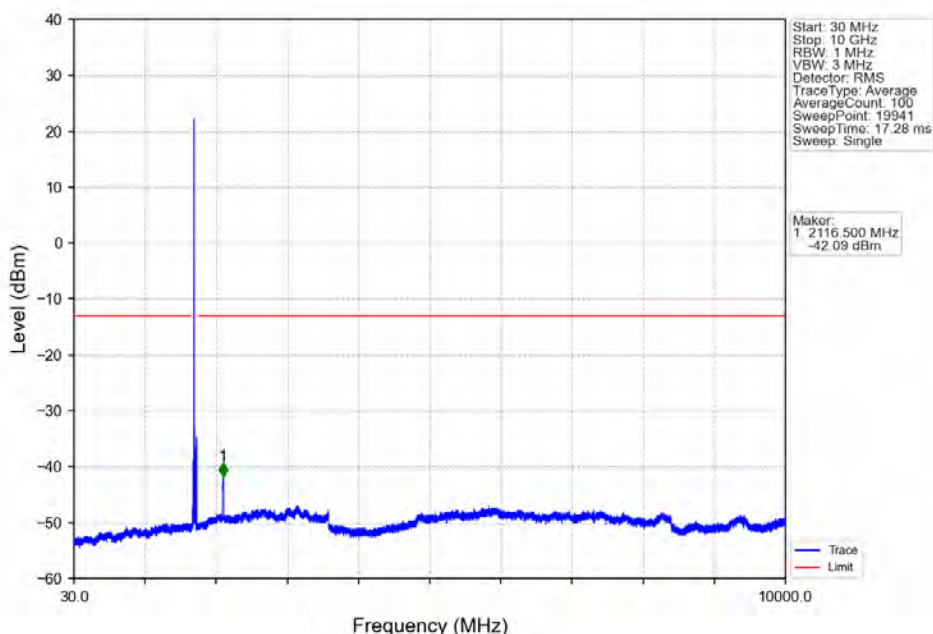
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Band4_20MHz_QPSK_LCH_1720MHz_RB_1_0_NTNV



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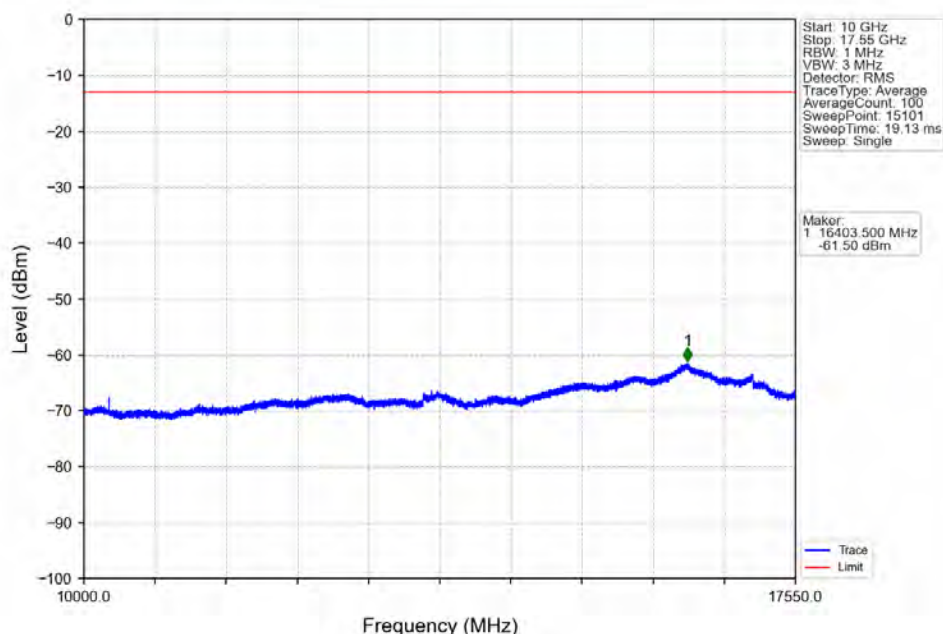
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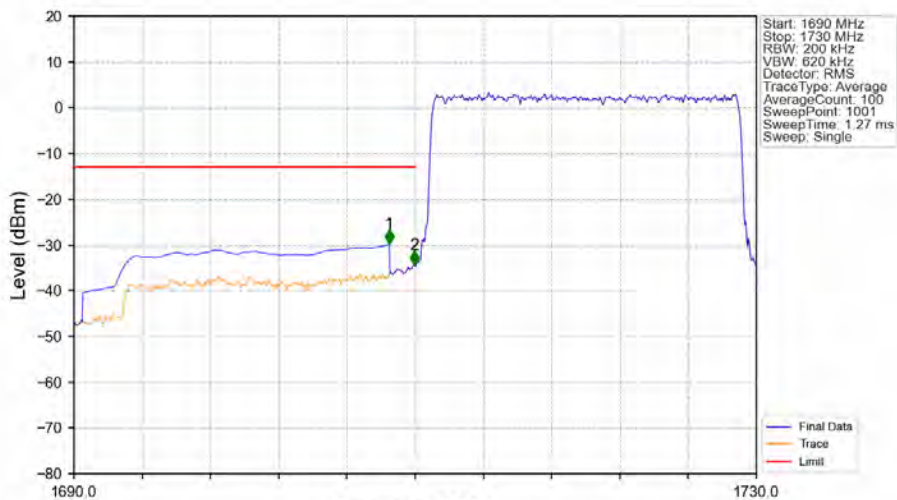
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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.480	-29.76	-13	Pass
1709	1710	0.2	/	2	1709.960	-34.30	-13	Pass
1710	1730	0.2	/	/	/	/	/	/



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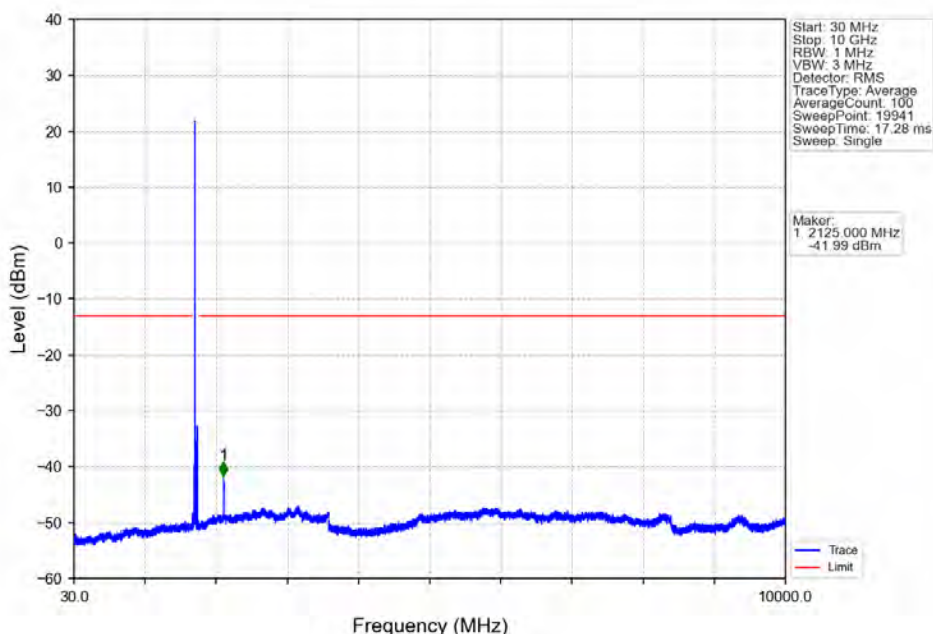
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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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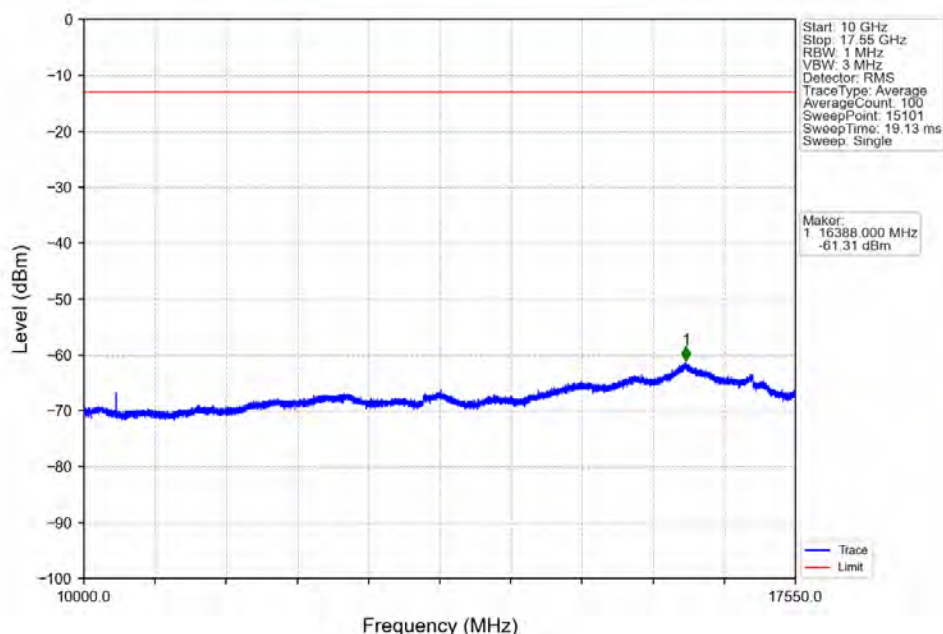
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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_1_0_NTNV



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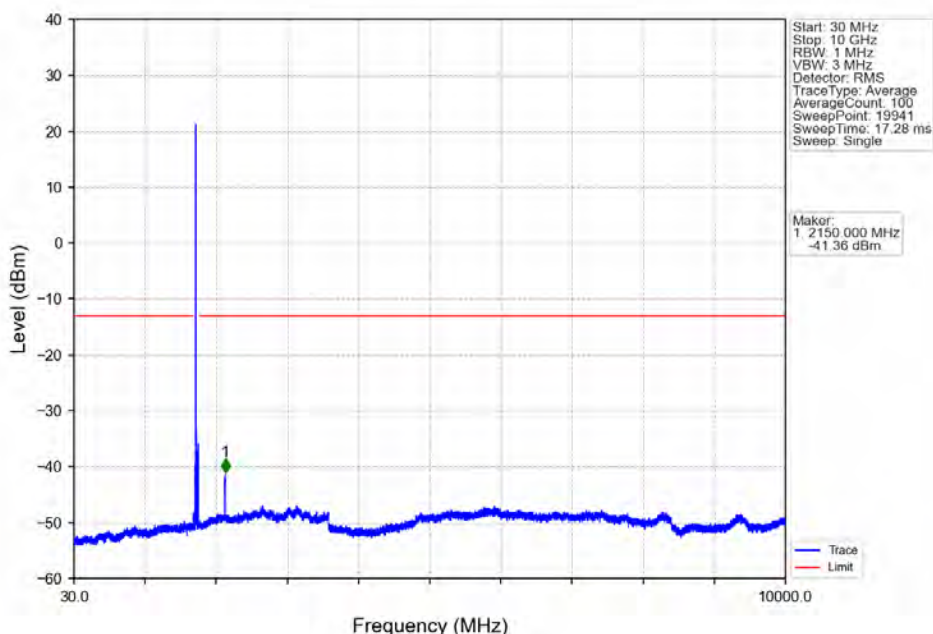
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Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



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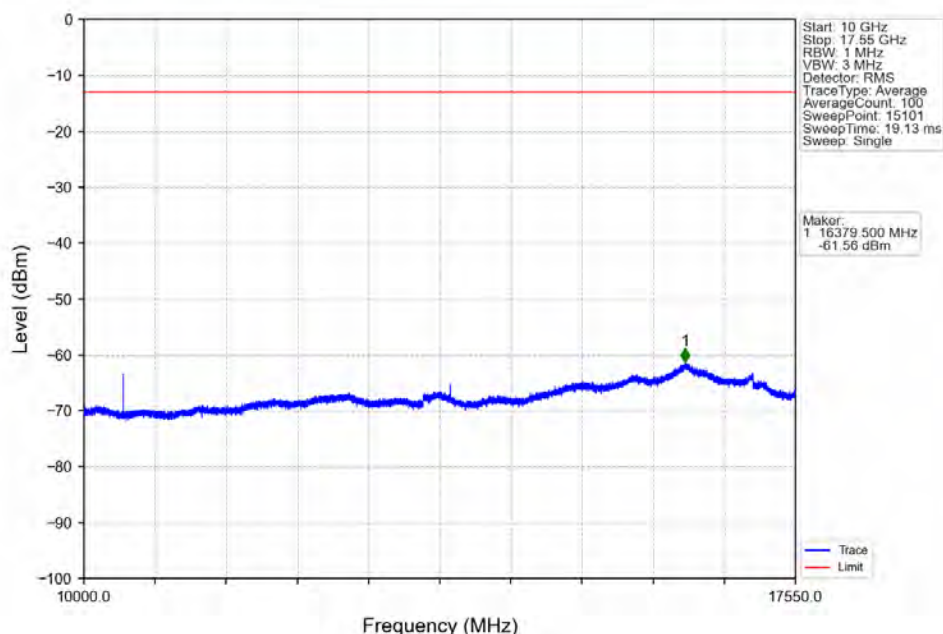
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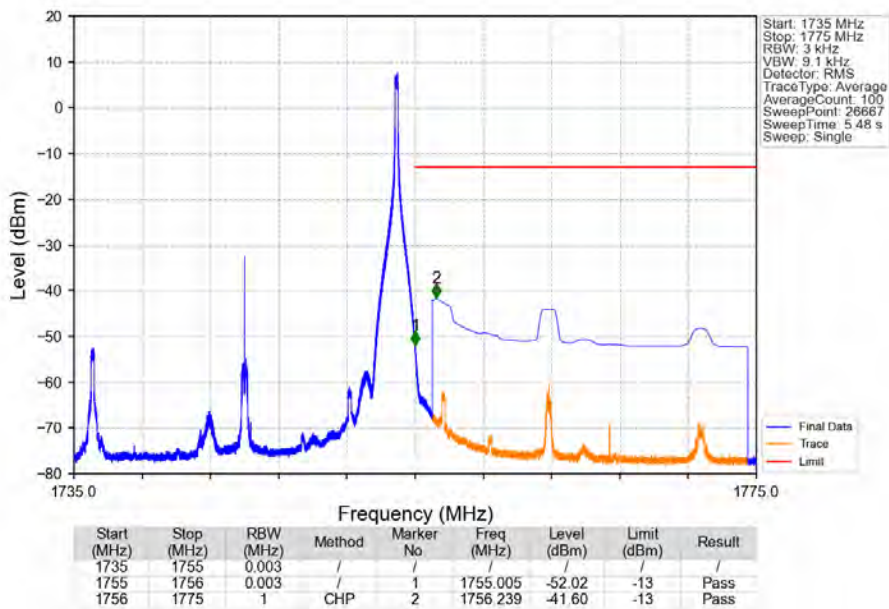
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Band4 20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



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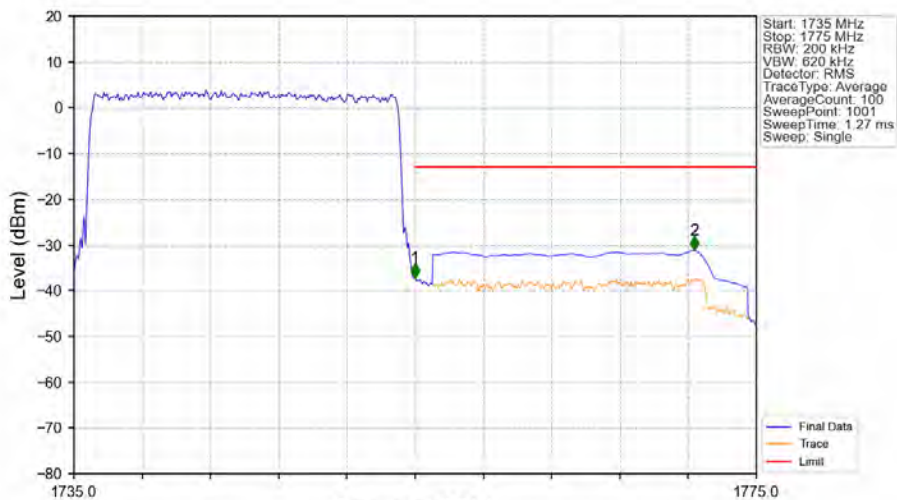
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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.2	/	1	1755.000	-37.16	-13	Pass
1755	1756	0.2	/	1	1755.000	-37.16	-13	Pass
1756	1775	1	CHP	2	1771.360	-31.21	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	39.27	-43.26	29.58	-69.66	-13.00	56.66	Horizontal
2	5133.27	35.19	-41.12	33.17	-68.02	-13.00	55.02	Horizontal
3	6844.36	34.54	-38.40	35.94	-63.18	-13.00	50.18	Horizontal
4	8555.45	32.91	-35.34	37.38	-60.32	-13.00	47.32	Horizontal
5	10266.54	30.84	-32.16	38.03	-58.55	-13.00	45.55	Horizontal
6	11977.63	30.07	-29.65	38.40	-56.44	-13.00	43.44	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	36.66	-43.26	29.58	-72.27	-13.00	59.27	Vertical
2	5133.27	35.21	-41.12	33.17	-68.00	-13.00	55.00	Vertical
3	6844.36	34.52	-38.40	35.94	-63.20	-13.00	50.20	Vertical
4	8555.45	32.97	-35.34	37.38	-60.26	-13.00	47.26	Vertical
5	10266.54	30.77	-32.16	38.03	-58.62	-13.00	45.62	Vertical
6	11977.63	30.35	-29.65	38.40	-56.16	-13.00	43.16	Vertical



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Test Band = LTE Band 4_ 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	3447.18	36.47	-43.20	29.59	-72.40	-13.00	59.40	Horizontal
2	5170.77	35.00	-40.95	33.17	-68.04	-13.00	55.04	Horizontal
3	6894.36	34.29	-38.34	35.96	-63.35	-13.00	50.35	Horizontal
4	8617.95	31.81	-35.21	37.41	-61.25	-13.00	48.25	Horizontal
5	10341.54	31.75	-31.90	38.07	-57.34	-13.00	44.34	Horizontal
6	12065.13	29.50	-29.38	38.48	-56.66	-13.00	43.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3447.18	35.62	-43.20	29.59	-73.25	-13.00	60.25	Vertical
2	5170.77	35.78	-40.95	33.17	-67.26	-13.00	54.26	Vertical
3	6894.36	33.92	-38.34	35.96	-63.72	-13.00	50.72	Vertical
4	8617.95	32.01	-35.21	37.41	-61.05	-13.00	48.05	Vertical
5	10341.54	31.54	-31.90	38.07	-57.55	-13.00	44.55	Vertical
6	12065.13	29.15	-29.38	38.48	-57.01	-13.00	44.01	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	36.78	-43.14	29.59	-72.03	-13.00	59.03	Horizontal
2	5208.27	35.82	-40.82	33.16	-67.10	-13.00	54.10	Horizontal
3	6944.36	34.44	-38.35	35.98	-63.19	-13.00	50.19	Horizontal
4	8680.45	31.68	-35.38	37.44	-61.52	-13.00	48.52	Horizontal
5	10416.54	30.19	-31.40	38.11	-58.36	-13.00	45.36	Horizontal
6	12152.63	29.81	-29.50	38.58	-56.37	-13.00	43.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	35.52	-43.14	29.59	-73.29	-13.00	60.29	Vertical
2	5208.27	35.16	-40.82	33.16	-67.76	-13.00	54.76	Vertical
3	6944.36	34.28	-38.35	35.98	-63.35	-13.00	50.35	Vertical
4	8680.45	31.80	-35.38	37.44	-61.40	-13.00	48.40	Vertical
5	10416.54	29.38	-31.40	38.11	-59.17	-13.00	46.17	Vertical
6	12152.63	30.41	-29.50	38.58	-55.77	-13.00	42.77	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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