

Report No.: SEWM2311000454RG01

Rev.: 01

Page: 1 of 395

Appendix B.7

LTE Band 4



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B4_1.4MHz_EIRP

1.1.1 Test Result ANT4

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	23.41	-1.70	21.71	<=30	Pass		
			2	23.44	-1.70	21.74	<=30	Pass		
			5	23.38	-1.70	21.68	<=30	Pass		
		3	0	23.40	-1.70	21.70	<=30	Pass		
			2	23.41	-1.70	21.71	<=30	Pass		
			3	23.38	-1.70	21.68	<=30	Pass		
		6	0	22.39	-1.70	20.69	<=30	Pass		
			0	23.68	-1.70	21.98	<=30	Pass		
			2	23.76	-1.70	22.06	<=30	Pass		
	1732.5	1	5	23.68	-1.70	21.98	<=30	Pass		
			0	23.66	-1.70	21.96	<=30	Pass		
			2	23.71	-1.70	22.01	<=30	Pass		
		3	3	23.71	-1.70	22.01	<=30	Pass		
			0	22.68	-1.70	20.98	<=30	Pass		
			0	23.86	-1.70	22.16	<=30	Pass		
		1754.3	1	2	23.90	-1.70	22.20	<=30	Pass	
				5	23.86	-1.70	22.16	<=30	Pass	
				0	23.84	-1.70	22.14	<=30	Pass	
	3		2	23.87	-1.70	22.17	<=30	Pass		
			3	23.84	-1.70	22.14	<=30	Pass		
			0	22.85	-1.70	21.15	<=30	Pass		
	16QAM		1710.7	1	0	22.51	-1.70	20.81	<=30	Pass
					2	22.59	-1.70	20.89	<=30	Pass
					5	22.53	-1.70	20.83	<=30	Pass
3		0		22.50	-1.70	20.80	<=30	Pass		
		2		22.47	-1.70	20.77	<=30	Pass		
		3		22.47	-1.70	20.77	<=30	Pass		
6		0		21.39	-1.70	19.69	<=30	Pass		
		0		22.77	-1.70	21.07	<=30	Pass		
		2		22.74	-1.70	21.04	<=30	Pass		
1732.5		1	5	22.75	-1.70	21.05	<=30	Pass		
			0	22.71	-1.70	21.01	<=30	Pass		
			2	22.74	-1.70	21.04	<=30	Pass		
		3	3	22.76	-1.70	21.06	<=30	Pass		
			0	21.71	-1.70	20.01	<=30	Pass		
			0	22.98	-1.70	21.28	<=30	Pass		
		1754.3	1	2	23.07	-1.70	21.37	<=30	Pass	



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			5	23.03	-1.70	21.33	<=30	Pass	
		3	0	22.99	-1.70	21.29	<=30	Pass	
			2	23.02	-1.70	21.32	<=30	Pass	
			3	22.96	-1.70	21.26	<=30	Pass	
			6	0	21.89	-1.70	20.19	<=30	Pass
64QAM	1710.7	1	0	21.60	-1.70	19.90	<=30	Pass	
			2	21.51	-1.70	19.81	<=30	Pass	
			5	21.32	-1.70	19.62	<=30	Pass	
		3	0	21.51	-1.70	19.81	<=30	Pass	
			2	21.54	-1.70	19.84	<=30	Pass	
			3	21.50	-1.70	19.80	<=30	Pass	
		6	0	20.44	-1.70	18.74	<=30	Pass	
		1732.5	1	0	21.77	-1.70	20.07	<=30	Pass
				2	21.89	-1.70	20.19	<=30	Pass
	5			21.91	-1.70	20.21	<=30	Pass	
	3		0	21.72	-1.70	20.02	<=30	Pass	
			2	21.79	-1.70	20.09	<=30	Pass	
			3	21.78	-1.70	20.08	<=30	Pass	
	6		0	20.69	-1.70	18.99	<=30	Pass	
	1754.3		1	0	22.02	-1.70	20.32	<=30	Pass
				2	22.14	-1.70	20.44	<=30	Pass
		5		22.14	-1.70	20.44	<=30	Pass	
		3	0	21.96	-1.70	20.26	<=30	Pass	
			2	21.97	-1.70	20.27	<=30	Pass	
			3	21.99	-1.70	20.29	<=30	Pass	
		6	0	20.94	-1.70	19.24	<=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	23.33	-1.70	21.63	<=30	Pass		
			7	23.47	-1.70	21.77	<=30	Pass		
			14	23.36	-1.70	21.66	<=30	Pass		
		8	0	22.46	-1.70	20.76	<=30	Pass		
			4	22.49	-1.70	20.79	<=30	Pass		
			7	22.46	-1.70	20.76	<=30	Pass		
		15	0	22.46	-1.70	20.76	<=30	Pass		
		1732.5	1	0	23.64	-1.70	21.94	<=30	Pass	
				7	23.73	-1.70	22.03	<=30	Pass	
	14			23.70	-1.70	22.00	<=30	Pass		
	8		0	22.61	-1.70	20.91	<=30	Pass		
			4	22.76	-1.70	21.06	<=30	Pass		
			7	22.71	-1.70	21.01	<=30	Pass		
	15		0	22.63	-1.70	20.93	<=30	Pass		
	1753.5		1	0	23.82	-1.70	22.12	<=30	Pass	
				7	23.94	-1.70	22.24	<=30	Pass	
		14		23.87	-1.70	22.17	<=30	Pass		
		8	0	22.82	-1.70	21.12	<=30	Pass		
			4	22.84	-1.70	21.14	<=30	Pass		
			7	22.89	-1.70	21.19	<=30	Pass		
		15	0	22.84	-1.70	21.14	<=30	Pass		
		16QAM	1711.5	1	0	22.52	-1.70	20.82	<=30	Pass
					7	22.67	-1.70	20.97	<=30	Pass
	14				22.57	-1.70	20.87	<=30	Pass	
	8			0	21.45	-1.70	19.75	<=30	Pass	
				4	21.58	-1.70	19.88	<=30	Pass	
				7	21.46	-1.70	19.76	<=30	Pass	
15	0			21.52	-1.70	19.82	<=30	Pass		
1732.5	1			0	22.75	-1.70	21.05	<=30	Pass	
				7	22.95	-1.70	21.25	<=30	Pass	
			14	22.83	-1.70	21.13	<=30	Pass		
	8		0	21.70	-1.70	20.00	<=30	Pass		
			4	21.72	-1.70	20.02	<=30	Pass		
			7	21.74	-1.70	20.04	<=30	Pass		
	15		0	21.67	-1.70	19.97	<=30	Pass		
	1753.5		1	0	22.98	-1.70	21.28	<=30	Pass	
				7	23.04	-1.70	21.34	<=30	Pass	
14				23.05	-1.70	21.35	<=30	Pass		
8			0	21.91	-1.70	20.21	<=30	Pass		
			4	21.92	-1.70	20.22	<=30	Pass		



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			7	22.00	-1.70	20.30	<=30	Pass
		15	0	21.90	-1.70	20.20	<=30	Pass
64QAM	1711.5	1	0	21.64	-1.70	19.94	<=30	Pass
			7	21.55	-1.70	19.85	<=30	Pass
			14	21.44	-1.70	19.74	<=30	Pass
		8	0	20.44	-1.70	18.74	<=30	Pass
			4	20.50	-1.70	18.80	<=30	Pass
			7	20.57	-1.70	18.87	<=30	Pass
	15	0	20.51	-1.70	18.81	<=30	Pass	
	1732.5	1	0	21.85	-1.70	20.15	<=30	Pass
			7	22.02	-1.70	20.32	<=30	Pass
			14	21.95	-1.70	20.25	<=30	Pass
		8	0	20.67	-1.70	18.97	<=30	Pass
			4	20.64	-1.70	18.94	<=30	Pass
			7	20.72	-1.70	19.02	<=30	Pass
	15	0	20.64	-1.70	18.94	<=30	Pass	
	1753.5	1	0	22.12	-1.70	20.42	<=30	Pass
			7	22.24	-1.70	20.54	<=30	Pass
			14	22.11	-1.70	20.41	<=30	Pass
		8	0	20.70	-1.70	19.00	<=30	Pass
			4	21.05	-1.70	19.35	<=30	Pass
			7	20.94	-1.70	19.24	<=30	Pass
	15	0	20.85	-1.70	19.15	<=30	Pass	

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	23.42	-1.70	21.72	<=30	Pass		
			13	23.54	-1.70	21.84	<=30	Pass		
			24	23.45	-1.70	21.75	<=30	Pass		
		12	0	22.46	-1.70	20.76	<=30	Pass		
			6	22.51	-1.70	20.81	<=30	Pass		
			13	22.48	-1.70	20.78	<=30	Pass		
		25	0	22.45	-1.70	20.75	<=30	Pass		
		1732.5	1	0	23.63	-1.70	21.93	<=30	Pass	
				13	23.77	-1.70	22.07	<=30	Pass	
	24			23.69	-1.70	21.99	<=30	Pass		
	12		0	22.61	-1.70	20.91	<=30	Pass		
			6	22.66	-1.70	20.96	<=30	Pass		
			13	22.74	-1.70	21.04	<=30	Pass		
	25		0	22.64	-1.70	20.94	<=30	Pass		
	1752.5		1	0	23.85	-1.70	22.15	<=30	Pass	
				13	23.99	-1.70	22.29	<=30	Pass	
		24		23.88	-1.70	22.18	<=30	Pass		
		12	0	22.81	-1.70	21.11	<=30	Pass		
			6	22.84	-1.70	21.14	<=30	Pass		
			13	22.90	-1.70	21.20	<=30	Pass		
		25	0	22.80	-1.70	21.10	<=30	Pass		
		16QAM	1712.5	1	0	22.47	-1.70	20.77	<=30	Pass
					13	22.57	-1.70	20.87	<=30	Pass
	24				22.47	-1.70	20.77	<=30	Pass	
12	0			21.47	-1.70	19.77	<=30	Pass		
	6			21.59	-1.70	19.89	<=30	Pass		
	13			21.36	-1.70	19.66	<=30	Pass		
25	0			21.48	-1.70	19.78	<=30	Pass		
1732.5	1			0	22.75	-1.70	21.05	<=30	Pass	
				13	22.90	-1.70	21.20	<=30	Pass	
			24	22.79	-1.70	21.09	<=30	Pass		
	12		0	21.71	-1.70	20.01	<=30	Pass		
			6	21.66	-1.70	19.96	<=30	Pass		
			13	21.78	-1.70	20.08	<=30	Pass		
	25		0	21.62	-1.70	19.92	<=30	Pass		
	1752.5		1	0	23.08	-1.70	21.38	<=30	Pass	
				13	23.16	-1.70	21.46	<=30	Pass	
24				23.05	-1.70	21.35	<=30	Pass		
12			0	21.80	-1.70	20.10	<=30	Pass		
			6	21.80	-1.70	20.10	<=30	Pass		



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			13	21.91	-1.70	20.21	<=30	Pass
		25	0	21.84	-1.70	20.14	<=30	Pass
64QAM	1712.5	1	0	21.55	-1.70	19.85	<=30	Pass
			13	21.74	-1.70	20.04	<=30	Pass
			24	21.68	-1.70	19.98	<=30	Pass
		12	0	20.49	-1.70	18.79	<=30	Pass
			6	20.54	-1.70	18.84	<=30	Pass
			13	20.50	-1.70	18.80	<=30	Pass
	25	0	20.48	-1.70	18.78	<=30	Pass	
	1732.5	1	0	21.85	-1.70	20.15	<=30	Pass
			13	21.96	-1.70	20.26	<=30	Pass
			24	21.93	-1.70	20.23	<=30	Pass
		12	0	20.65	-1.70	18.95	<=30	Pass
			6	20.69	-1.70	18.99	<=30	Pass
			13	20.75	-1.70	19.05	<=30	Pass
	25	0	20.65	-1.70	18.95	<=30	Pass	
	1752.5	1	0	21.96	-1.70	20.26	<=30	Pass
			13	22.06	-1.70	20.36	<=30	Pass
			24	21.94	-1.70	20.24	<=30	Pass
		12	0	20.83	-1.70	19.13	<=30	Pass
6			20.89	-1.70	19.19	<=30	Pass	
13			20.95	-1.70	19.25	<=30	Pass	
25	0	20.84	-1.70	19.14	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain



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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	23.42	-1.70	21.72	<=30	Pass	
			25	23.41	-1.70	21.71	<=30	Pass	
			49	23.43	-1.70	21.73	<=30	Pass	
		25	0	22.45	-1.70	20.75	<=30	Pass	
			13	22.48	-1.70	20.78	<=30	Pass	
			25	22.45	-1.70	20.75	<=30	Pass	
		50	0	22.45	-1.70	20.75	<=30	Pass	
			1	0	23.62	-1.70	21.92	<=30	Pass
				25	23.73	-1.70	22.03	<=30	Pass
	49	23.71		-1.70	22.01	<=30	Pass		
	1732.5	25	0	22.61	-1.70	20.91	<=30	Pass	
			13	22.67	-1.70	20.97	<=30	Pass	
			25	22.73	-1.70	21.03	<=30	Pass	
		50	0	22.67	-1.70	20.97	<=30	Pass	
			1	0	23.78	-1.70	22.08	<=30	Pass
				25	23.87	-1.70	22.17	<=30	Pass
		49		23.83	-1.70	22.13	<=30	Pass	
		25	0	22.77	-1.70	21.07	<=30	Pass	
			13	22.86	-1.70	21.16	<=30	Pass	
	25		22.84	-1.70	21.14	<=30	Pass		
	50	0	22.84	-1.70	21.14	<=30	Pass		
		1	0	22.55	-1.70	20.85	<=30	Pass	
			25	22.57	-1.70	20.87	<=30	Pass	
	49		22.54	-1.70	20.84	<=30	Pass		
16QAM	1715	25	0	21.46	-1.70	19.76	<=30	Pass	
			13	21.49	-1.70	19.79	<=30	Pass	
			25	21.50	-1.70	19.80	<=30	Pass	
		50	0	21.45	-1.70	19.75	<=30	Pass	
			1	0	22.76	-1.70	21.06	<=30	Pass
				25	22.88	-1.70	21.18	<=30	Pass
	49	22.82		-1.70	21.12	<=30	Pass		
	1732.5	25	0	21.63	-1.70	19.93	<=30	Pass	
			13	21.69	-1.70	19.99	<=30	Pass	
25			21.78	-1.70	20.08	<=30	Pass		
50		0	21.62	-1.70	19.92	<=30	Pass		
		1	0	22.94	-1.70	21.24	<=30	Pass	
			25	23.00	-1.70	21.30	<=30	Pass	
25	49		22.97	-1.70	21.27	<=30	Pass		
	0	21.75	-1.70	20.05	<=30	Pass			
	13	21.91	-1.70	20.21	<=30	Pass			



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			25	21.84	-1.70	20.14	<=30	Pass
		50	0	21.85	-1.70	20.15	<=30	Pass
64QAM	1715	1	0	21.50	-1.70	19.80	<=30	Pass
			25	21.55	-1.70	19.85	<=30	Pass
			49	21.54	-1.70	19.84	<=30	Pass
		25	0	20.45	-1.70	18.75	<=30	Pass
			13	20.48	-1.70	18.78	<=30	Pass
			25	20.46	-1.70	18.76	<=30	Pass
	50	0	20.46	-1.70	18.76	<=30	Pass	
	1732.5	1	0	21.78	-1.70	20.08	<=30	Pass
			25	21.89	-1.70	20.19	<=30	Pass
			49	21.89	-1.70	20.19	<=30	Pass
		25	0	20.62	-1.70	18.92	<=30	Pass
			13	20.69	-1.70	18.99	<=30	Pass
			25	20.75	-1.70	19.05	<=30	Pass
	50	0	20.65	-1.70	18.95	<=30	Pass	
	1750	1	0	21.97	-1.70	20.27	<=30	Pass
			25	22.10	-1.70	20.40	<=30	Pass
			49	22.10	-1.70	20.40	<=30	Pass
		25	0	20.81	-1.70	19.11	<=30	Pass
			13	20.92	-1.70	19.22	<=30	Pass
			25	20.88	-1.70	19.18	<=30	Pass
50	0	20.88	-1.70	19.18	<=30	Pass		

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	23.27	-1.70	21.57	<=30	Pass	
			38	23.25	-1.70	21.55	<=30	Pass	
			74	23.29	-1.70	21.59	<=30	Pass	
		36	0	22.43	-1.70	20.73	<=30	Pass	
			18	22.43	-1.70	20.73	<=30	Pass	
			39	22.43	-1.70	20.73	<=30	Pass	
		75	0	22.38	-1.70	20.68	<=30	Pass	
			1	0	23.39	-1.70	21.69	<=30	Pass
				38	23.53	-1.70	21.83	<=30	Pass
	74	23.63		-1.70	21.93	<=30	Pass		
	1732.5	36	0	22.50	-1.70	20.80	<=30	Pass	
			18	22.56	-1.70	20.86	<=30	Pass	
			39	22.67	-1.70	20.97	<=30	Pass	
		75	0	22.55	-1.70	20.85	<=30	Pass	
			1	0	23.62	-1.70	21.92	<=30	Pass
				38	23.67	-1.70	21.97	<=30	Pass
		74		23.78	-1.70	22.08	<=30	Pass	
		1747.5	36	0	22.68	-1.70	20.98	<=30	Pass
				18	22.68	-1.70	20.98	<=30	Pass
	39			22.77	-1.70	21.07	<=30	Pass	
	75		0	22.76	-1.70	21.06	<=30	Pass	
			1	0	22.51	-1.70	20.81	<=30	Pass
				38	22.49	-1.70	20.79	<=30	Pass
	74			22.57	-1.70	20.87	<=30	Pass	
16QAM	1717.5		36	0	21.42	-1.70	19.72	<=30	Pass
				18	21.41	-1.70	19.71	<=30	Pass
		39		21.44	-1.70	19.74	<=30	Pass	
		75	0	21.42	-1.70	19.72	<=30	Pass	
			1	0	22.66	-1.70	20.96	<=30	Pass
				38	22.67	-1.70	20.97	<=30	Pass
		74		22.77	-1.70	21.07	<=30	Pass	
		1732.5	36	0	21.54	-1.70	19.84	<=30	Pass
				18	21.54	-1.70	19.84	<=30	Pass
	39			21.67	-1.70	19.97	<=30	Pass	
	75		0	21.58	-1.70	19.88	<=30	Pass	
			1	0	22.83	-1.70	21.13	<=30	Pass
				38	22.76	-1.70	21.06	<=30	Pass
	74			22.87	-1.70	21.17	<=30	Pass	
	1747.5		36	0	21.68	-1.70	19.98	<=30	Pass
				18	21.68	-1.70	19.98	<=30	Pass



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			39	21.79	-1.70	20.09	<=30	Pass
		75	0	21.76	-1.70	20.06	<=30	Pass
64QAM	1717.5	1	0	21.49	-1.70	19.79	<=30	Pass
			38	21.48	-1.70	19.78	<=30	Pass
			74	21.59	-1.70	19.89	<=30	Pass
		36	0	20.41	-1.70	18.71	<=30	Pass
			18	20.39	-1.70	18.69	<=30	Pass
			39	20.40	-1.70	18.70	<=30	Pass
	75	0	20.41	-1.70	18.71	<=30	Pass	
	1732.5	1	0	21.60	-1.70	19.90	<=30	Pass
			38	21.75	-1.70	20.05	<=30	Pass
			74	21.82	-1.70	20.12	<=30	Pass
		36	0	20.49	-1.70	18.79	<=30	Pass
			18	20.57	-1.70	18.87	<=30	Pass
			39	20.66	-1.70	18.96	<=30	Pass
	75	0	20.57	-1.70	18.87	<=30	Pass	
	1747.5	1	0	21.71	-1.70	20.01	<=30	Pass
			38	21.80	-1.70	20.10	<=30	Pass
			74	21.87	-1.70	20.17	<=30	Pass
		36	0	20.72	-1.70	19.02	<=30	Pass
18			20.69	-1.70	18.99	<=30	Pass	
39			20.78	-1.70	19.08	<=30	Pass	
75	0	20.77	-1.70	19.07	<=30	Pass		
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	23.32	-1.70	21.62	<=30	Pass		
			50	23.27	-1.70	21.57	<=30	Pass		
			99	23.39	-1.70	21.69	<=30	Pass		
		50	0	22.33	-1.70	20.63	<=30	Pass		
			25	22.44	-1.70	20.74	<=30	Pass		
			50	22.46	-1.70	20.76	<=30	Pass		
		100	0	22.44	-1.70	20.74	<=30	Pass		
		1732.5	1	0	23.41	-1.70	21.71	<=30	Pass	
				50	23.51	-1.70	21.81	<=30	Pass	
	99			23.60	-1.70	21.90	<=30	Pass		
	50		0	22.51	-1.70	20.81	<=30	Pass		
			25	22.57	-1.70	20.87	<=30	Pass		
			50	22.68	-1.70	20.98	<=30	Pass		
	100		0	22.56	-1.70	20.86	<=30	Pass		
	1745		1	0	23.71	-1.70	22.01	<=30	Pass	
				50	23.67	-1.70	21.97	<=30	Pass	
		99		23.71	-1.70	22.01	<=30	Pass		
		50	0	22.70	-1.70	21.00	<=30	Pass		
			25	22.72	-1.70	21.02	<=30	Pass		
			50	22.76	-1.70	21.06	<=30	Pass		
		100	0	22.79	-1.70	21.09	<=30	Pass		
		16QAM	1720	1	0	22.44	-1.70	20.74	<=30	Pass
					50	22.47	-1.70	20.77	<=30	Pass
	99				22.50	-1.70	20.80	<=30	Pass	
50	0			21.36	-1.70	19.66	<=30	Pass		
	25			21.43	-1.70	19.73	<=30	Pass		
	50			21.47	-1.70	19.77	<=30	Pass		
100	0			21.44	-1.70	19.74	<=30	Pass		
1732.5	1			0	22.45	-1.70	20.75	<=30	Pass	
				50	22.55	-1.70	20.85	<=30	Pass	
			99	22.64	-1.70	20.94	<=30	Pass		
	50		0	21.51	-1.70	19.81	<=30	Pass		
			25	21.58	-1.70	19.88	<=30	Pass		
			50	21.69	-1.70	19.99	<=30	Pass		
	100		0	21.58	-1.70	19.88	<=30	Pass		
	1745		1	0	22.93	-1.70	21.23	<=30	Pass	
				50	22.83	-1.70	21.13	<=30	Pass	
99				22.82	-1.70	21.12	<=30	Pass		
50			0	21.71	-1.70	20.01	<=30	Pass		
			25	21.73	-1.70	20.03	<=30	Pass		



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			50	21.80	-1.70	20.10	<=30	Pass
		100	0	21.79	-1.70	20.09	<=30	Pass
64QAM	1720	1	0	21.52	-1.70	19.82	<=30	Pass
			50	21.46	-1.70	19.76	<=30	Pass
			99	21.62	-1.70	19.92	<=30	Pass
		50	0	20.36	-1.70	18.66	<=30	Pass
			25	20.45	-1.70	18.75	<=30	Pass
			50	20.48	-1.70	18.78	<=30	Pass
	100	0	20.43	-1.70	18.73	<=30	Pass	
	1732.5	1	0	21.67	-1.70	19.97	<=30	Pass
			50	21.75	-1.70	20.05	<=30	Pass
			99	21.85	-1.70	20.15	<=30	Pass
		50	0	20.52	-1.70	18.82	<=30	Pass
			25	20.57	-1.70	18.87	<=30	Pass
			50	20.69	-1.70	18.99	<=30	Pass
	100	0	20.58	-1.70	18.88	<=30	Pass	
	1745	1	0	21.95	-1.70	20.25	<=30	Pass
			50	21.96	-1.70	20.26	<=30	Pass
			99	21.99	-1.70	20.29	<=30	Pass
		50	0	20.71	-1.70	19.01	<=30	Pass
			25	20.72	-1.70	19.02	<=30	Pass
			50	20.80	-1.70	19.10	<=30	Pass
	100	0	20.81	-1.70	19.11	<=30	Pass	
Note1: EIRP=Conducted Power+Antenna Gain								



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2. Frequency Stability

2.1 B4_1.4MHz

2.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.5	-20.001	-0.0117	/	Pass
					3.91	-18.329	-0.0107	/	Pass
					4.35	-17.223	-0.0101	/	Pass
				-30	3.91	-13.402	-0.0078	/	Pass
				-20	3.91	-12.552	-0.0073	/	Pass
				-10	3.91	-9.126	-0.0053	/	Pass
				0	3.91	-7.573	-0.0044	/	Pass
				10	3.91	-5.871	-0.0034	/	Pass
				30	3.91	-4.765	-0.0028	/	Pass
				40	3.91	-2.467	-0.0014	/	Pass
	50	3.91	-2.390	-0.0014	/	Pass			
	1732.5	6	0	20	3.5	11.818	0.0068	/	Pass
					3.91	11.384	0.0066	/	Pass
					4.35	11.082	0.0064	/	Pass
				-30	3.91	10.718	0.0062	/	Pass
				-20	3.91	8.458	0.0049	/	Pass
				-10	3.91	8.470	0.0049	/	Pass
				0	3.91	6.926	0.0040	/	Pass
				10	3.91	6.977	0.0040	/	Pass
				30	3.91	6.809	0.0039	/	Pass
				40	3.91	6.061	0.0035	/	Pass
	50	3.91	5.329	0.0031	/	Pass			
	1754.3	6	0	20	3.5	-5.556	-0.0032	/	Pass
					3.91	-7.840	-0.0045	/	Pass
					4.35	-13.429	-0.0077	/	Pass
				-30	3.91	-11.947	-0.0068	/	Pass
				-20	3.91	-17.767	-0.0101	/	Pass
				-10	3.91	-14.799	-0.0084	/	Pass
				0	3.91	-18.632	-0.0106	/	Pass
				10	3.91	-16.439	-0.0094	/	Pass
30				3.91	-15.579	-0.0089	/	Pass	
40				3.91	-12.509	-0.0071	/	Pass	
50	3.91	-8.856	-0.0050	/	Pass				
16QAM	1710.7	6	0	20	3.5	-2.733	-0.0016	/	Pass
					3.91	-1.132	-0.0007	/	Pass
					4.35	-0.863	-0.0005	/	Pass
				-30	3.91	-1.361	-0.0008	/	Pass
				-20	3.91	-0.358	-0.0002	/	Pass



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64QAM	1732.5	6	0	-10	3.91	-0.267	-0.0002	/	Pass		
				0	3.91	0.634	0.0004	/	Pass		
				10	3.91	-0.414	-0.0002	/	Pass		
				30	3.91	1.341	0.0008	/	Pass		
				40	3.91	-0.849	-0.0005	/	Pass		
				50	3.91	1.149	0.0007	/	Pass		
	1754.3	6	0	20	3.5	4.902	0.0028	/	Pass		
					3.91	3.390	0.0020	/	Pass		
					4.35	4.106	0.0024	/	Pass		
				-30	3.91	1.960	0.0011	/	Pass		
				-20	3.91	2.842	0.0016	/	Pass		
				-10	3.91	3.391	0.0020	/	Pass		
				0	3.91	1.659	0.0010	/	Pass		
				10	3.91	1.337	0.0008	/	Pass		
				30	3.91	1.732	0.0010	/	Pass		
				40	3.91	2.794	0.0016	/	Pass		
	50	3.91	1.621	0.0009	/	Pass					
	1710.7	6	0	20	3.5	-8.663	-0.0049	/	Pass		
					3.91	-6.231	-0.0036	/	Pass		
					4.35	-5.599	-0.0032	/	Pass		
				-30	3.91	-3.434	-0.0020	/	Pass		
-20				3.91	-3.608	-0.0021	/	Pass			
-10				3.91	-1.210	-0.0007	/	Pass			
0				3.91	-1.703	-0.0010	/	Pass			
10				3.91	-0.068	0.0000	/	Pass			
30				3.91	-1.121	-0.0006	/	Pass			
40				3.91	-1.481	-0.0008	/	Pass			
50	3.91	-0.295	-0.0002	/	Pass						
1732.5	6	0	20	3.5	0.542	0.0003	/	Pass			
				3.91	1.706	0.0010	/	Pass			
				4.35	1.206	0.0007	/	Pass			
			-30	3.91	0.653	0.0004	/	Pass			
			-20	3.91	0.228	0.0001	/	Pass			
			-10	3.91	-0.612	-0.0004	/	Pass			
			0	3.91	0.836	0.0005	/	Pass			
			10	3.91	0.910	0.0005	/	Pass			
			30	3.91	0.893	0.0005	/	Pass			
			40	3.91	1.212	0.0007	/	Pass			
			50	3.91	1.700	0.0010	/	Pass			
			1732.5	6	0	20	3.5	1.326	0.0008	/	Pass
							3.91	2.064	0.0012	/	Pass
							4.35	1.073	0.0006	/	Pass
						-30	3.91	2.082	0.0012	/	Pass
-20	3.91	0.780				0.0005	/	Pass			
-10	3.91	1.930				0.0011	/	Pass			
0	3.91	2.245				0.0013	/	Pass			
10	3.91	0.707				0.0004	/	Pass			
30	3.91	1.741				0.0010	/	Pass			
40	3.91	2.315	0.0013	/	Pass						
50	3.91	0.602	0.0003	/	Pass						



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 16 of 395

1754.3	6	0	20	3.5	1.360	0.0008	/	Pass
				3.91	0.620	0.0004	/	Pass
				4.35	-0.869	-0.0005	/	Pass
			-30	3.91	1.005	0.0006	/	Pass
			-20	3.91	0.892	0.0005	/	Pass
			-10	3.91	0.319	0.0002	/	Pass
			0	3.91	0.991	0.0006	/	Pass
			10	3.91	1.517	0.0009	/	Pass
			30	3.91	-0.069	0.0000	/	Pass
			40	3.91	1.134	0.0006	/	Pass
		50	3.91	-0.548	-0.0003	/	Pass	



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2.2 B4_3MHz

2.2.1 Test Result

Band: 4 / Bandwidth: 3MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1711.5	15	0	20	3.5	-0.388	-0.0002	/	Pass			
					3.91	-1.177	-0.0007	/	Pass			
					4.35	-0.470	-0.0003	/	Pass			
				-30	3.91	-0.599	-0.0003	/	Pass			
					-20	3.91	0.526	0.0003	/	Pass		
						-10	3.91	0.432	0.0003	/	Pass	
				0	3.91	0.836	0.0005	/	Pass			
				10	3.91	-0.257	-0.0002	/	Pass			
				30	3.91	-0.745	-0.0004	/	Pass			
				40	3.91	-0.737	-0.0004	/	Pass			
				50	3.91	-0.409	-0.0002	/	Pass			
				1732.5	15	0	20	3.5	-0.245	-0.0001	/	Pass
								3.91	-1.563	-0.0009	/	Pass
								4.35	0.430	0.0002	/	Pass
							-30	3.91	-1.879	-0.0011	/	Pass
	-20	3.91	-0.103					-0.0001	/	Pass		
		-10	3.91					-0.559	-0.0003	/	Pass	
	0	3.91	0.758				0.0004	/	Pass			
	10	3.91	-0.822				-0.0005	/	Pass			
	30	3.91	-0.272				-0.0002	/	Pass			
	40	3.91	0.248				0.0001	/	Pass			
	50	3.91	-0.346				-0.0002	/	Pass			
	1753.5	15	0				20	3.5	0.190	0.0001	/	Pass
								3.91	-0.199	-0.0001	/	Pass
								4.35	0.564	0.0003	/	Pass
							-30	3.91	0.721	0.0004	/	Pass
				-20	3.91	-0.243		-0.0001	/	Pass		
					-10	3.91		0.981	0.0006	/	Pass	
				0	3.91	-0.051	0.0000	/	Pass			
				10	3.91	0.628	0.0004	/	Pass			
30				3.91	-0.385	-0.0002	/	Pass				
40				3.91	0.048	0.0000	/	Pass				
50				3.91	-0.291	-0.0002	/	Pass				
16QAM				1711.5	15	0	20	3.5	-1.002	-0.0006	/	Pass
								3.91	-0.957	-0.0006	/	Pass
								4.35	-0.468	-0.0003	/	Pass
							-30	3.91	0.285	0.0002	/	Pass
	-20	3.91	-0.145					-0.0001	/	Pass		
	-10	3.91	-0.413				-0.0002	/	Pass			
	0	3.91	-0.093				-0.0001	/	Pass			



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64QAM	1732.5	15	0	10	3.91	0.330	0.0002	/	Pass			
				30	3.91	-0.404	-0.0002	/	Pass			
				40	3.91	-0.702	-0.0004	/	Pass			
				50	3.91	0.038	0.0000	/	Pass			
				20	3.5	-0.300	-0.0002	/	Pass			
					3.91	-0.409	-0.0002	/	Pass			
					4.35	0.600	0.0003	/	Pass			
				-30	3.91	-0.484	-0.0003	/	Pass			
				-20	3.91	-0.764	-0.0004	/	Pass			
				-10	3.91	0.842	0.0005	/	Pass			
				0	3.91	1.758	0.0010	/	Pass			
				10	3.91	0.874	0.0005	/	Pass			
				30	3.91	0.813	0.0005	/	Pass			
				40	3.91	-0.827	-0.0005	/	Pass			
				50	3.91	0.424	0.0002	/	Pass			
	1753.5	15	0	20	3.5	0.681	0.0004	/	Pass			
					3.91	-0.436	-0.0002	/	Pass			
					4.35	-0.334	-0.0002	/	Pass			
				-30	3.91	0.617	0.0004	/	Pass			
				-20	3.91	0.076	0.0000	/	Pass			
				-10	3.91	-0.616	-0.0004	/	Pass			
				0	3.91	-0.173	-0.0001	/	Pass			
				10	3.91	0.331	0.0002	/	Pass			
				30	3.91	1.162	0.0007	/	Pass			
				40	3.91	0.152	0.0001	/	Pass			
				50	3.91	-0.389	-0.0002	/	Pass			
				1711.5	15	0	20	3.5	-0.501	-0.0003	/	Pass
								3.91	0.155	0.0001	/	Pass
								4.35	0.452	0.0003	/	Pass
							-30	3.91	0.207	0.0001	/	Pass
-20	3.91	0.933	0.0005				/	Pass				
-10	3.91	-0.535	-0.0003				/	Pass				
0	3.91	-0.217	-0.0001				/	Pass				
10	3.91	1.154	0.0007				/	Pass				
30	3.91	-0.612	-0.0004				/	Pass				
40	3.91	-0.295	-0.0002				/	Pass				
50	3.91	-0.670	-0.0004				/	Pass				
1732.5	15	0	20				3.5	0.922	0.0005	/	Pass	
							3.91	0.244	0.0001	/	Pass	
							4.35	0.724	0.0004	/	Pass	
			-30				3.91	-0.137	-0.0001	/	Pass	
			-20	3.91	0.320	0.0002	/	Pass				
			-10	3.91	-0.266	-0.0002	/	Pass				
			0	3.91	-0.056	0.0000	/	Pass				
			10	3.91	-0.089	-0.0001	/	Pass				
			30	3.91	1.306	0.0008	/	Pass				
			40	3.91	-0.342	-0.0002	/	Pass				
			50	3.91	0.810	0.0005	/	Pass				
			1753.5	15	0	20	3.5	0.115	0.0001	/	Pass	
							3.91	0.007	0.0000	/	Pass	



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 19 of 395

				4.35	0.436	0.0002	/	Pass	
				-30	3.91	-0.492	-0.0003	/	Pass
				-20	3.91	0.026	0.0000	/	Pass
				-10	3.91	-0.663	-0.0004	/	Pass
				0	3.91	0.711	0.0004	/	Pass
				10	3.91	0.306	0.0002	/	Pass
				30	3.91	0.566	0.0003	/	Pass
				40	3.91	-0.703	-0.0004	/	Pass
				50	3.91	0.436	0.0002	/	Pass



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2.3 B4_5MHz

2.3.1 Test Result

Band: 4 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1712.5	25	0	20	3.5	0.041	0.0000	/	Pass	
					3.91	1.594	0.0009	/	Pass	
					4.35	0.691	0.0004	/	Pass	
				-30	3.91	1.009	0.0006	/	Pass	
					-20	3.91	1.220	0.0007	/	Pass
					-10	3.91	0.918	0.0005	/	Pass
				0	3.91	-0.239	-0.0001	/	Pass	
					10	3.91	1.516	0.0009	/	Pass
					30	3.91	0.809	0.0005	/	Pass
	1732.5	25	0	20	3.5	-0.647	-0.0004	/	Pass	
					3.91	-0.815	-0.0005	/	Pass	
					4.35	-1.485	-0.0009	/	Pass	
				-30	3.91	-0.260	-0.0002	/	Pass	
					-20	3.91	-0.563	-0.0003	/	Pass
					-10	3.91	-0.766	-0.0004	/	Pass
				0	3.91	-2.708	-0.0016	/	Pass	
					10	3.91	0.458	0.0003	/	Pass
					30	3.91	-1.768	-0.0010	/	Pass
	1752.5	25	0	20	3.5	-0.100	-0.0001	/	Pass	
					3.91	-0.278	-0.0002	/	Pass	
					4.35	0.429	0.0002	/	Pass	
				-30	3.91	0.243	0.0001	/	Pass	
					-20	3.91	0.173	0.0001	/	Pass
					-10	3.91	0.119	0.0001	/	Pass
				0	3.91	-0.849	-0.0005	/	Pass	
					10	3.91	-0.729	-0.0004	/	Pass
					30	3.91	-0.137	-0.0001	/	Pass
16QAM	1712.5	25	0	20	3.5	0.540	0.0003	/	Pass	
					3.91	0.574	0.0003	/	Pass	
					4.35	0.659	0.0004	/	Pass	
				-30	3.91	1.268	0.0007	/	Pass	
					-20	3.91	1.285	0.0008	/	Pass
					-10	3.91	0.811	0.0005	/	Pass
				0	3.91	0.000	0.0000	/	Pass	



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	1732.5	25	0	10	3.91	0.943	0.0006	/	Pass
				30	3.91	1.243	0.0007	/	Pass
				40	3.91	-0.242	-0.0001	/	Pass
				50	3.91	1.402	0.0008	/	Pass
				20	3.5	-0.412	-0.0002	/	Pass
					3.91	-0.138	-0.0001	/	Pass
					4.35	-0.351	-0.0002	/	Pass
				-30	3.91	-1.455	-0.0008	/	Pass
				-20	3.91	-0.327	-0.0002	/	Pass
				-10	3.91	-0.719	-0.0004	/	Pass
	0	3.91	0.890	0.0005	/	Pass			
	1752.5	25	0	10	3.91	0.819	0.0005	/	Pass
				30	3.91	0.021	0.0000	/	Pass
				40	3.91	-0.454	-0.0003	/	Pass
				50	3.91	0.259	0.0001	/	Pass
				20	3.5	0.068	0.0000	/	Pass
	3.91	-0.581	-0.0003		/	Pass			
	4.35	0.140	0.0001		/	Pass			
	-30	3.91	0.245	0.0001	/	Pass			
	-20	3.91	-0.915	-0.0005	/	Pass			
-10	3.91	0.122	0.0001	/	Pass				
0	3.91	-0.514	-0.0003	/	Pass				
10	3.91	-0.416	-0.0002	/	Pass				
30	3.91	-1.179	-0.0007	/	Pass				
40	3.91	-1.572	-0.0009	/	Pass				
50	3.91	-0.027	0.0000	/	Pass				
64QAM	1712.5	25	0	20	3.5	-0.257	-0.0002	/	Pass
					3.91	0.228	0.0001	/	Pass
					4.35	0.631	0.0004	/	Pass
				-30	3.91	2.338	0.0014	/	Pass
				-20	3.91	0.815	0.0005	/	Pass
				-10	3.91	2.031	0.0012	/	Pass
				0	3.91	0.503	0.0003	/	Pass
				10	3.91	0.687	0.0004	/	Pass
				30	3.91	2.087	0.0012	/	Pass
				40	3.91	1.636	0.0010	/	Pass
	50	3.91	1.994	0.0012	/	Pass			
	1732.5	25	0	20	3.5	0.035	0.0000	/	Pass
					3.91	0.913	0.0005	/	Pass
					4.35	1.408	0.0008	/	Pass
				-30	3.91	-0.503	-0.0003	/	Pass
				-20	3.91	0.559	0.0003	/	Pass
				-10	3.91	1.141	0.0007	/	Pass
				0	3.91	0.946	0.0005	/	Pass
				10	3.91	-0.771	-0.0004	/	Pass
				30	3.91	-0.737	-0.0004	/	Pass
40				3.91	2.241	0.0013	/	Pass	
50	3.91	0.192	0.0001	/	Pass				
1752.5	25	0	20	3.5	0.135	0.0001	/	Pass	
				3.91	-0.142	-0.0001	/	Pass	



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 22 of 395

				4.35	-1.594	-0.0009	/	Pass
			-30	3.91	-0.973	-0.0006	/	Pass
			-20	3.91	-0.637	-0.0004	/	Pass
			-10	3.91	-0.869	-0.0005	/	Pass
			0	3.91	0.132	0.0001	/	Pass
			10	3.91	-0.548	-0.0003	/	Pass
			30	3.91	-0.873	-0.0005	/	Pass
			40	3.91	0.257	0.0001	/	Pass
			50	3.91	0.088	0.0001	/	Pass



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2.4 B4_10MHz

2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1715	50	0	20	3.5	-0.686	-0.0004	/	Pass	
					3.91	-1.074	-0.0006	/	Pass	
					4.35	0.181	0.0001	/	Pass	
				-30	3.91	-0.072	0.0000	/	Pass	
					-20	3.91	-1.426	-0.0008	/	Pass
						-10	3.91	-0.476	-0.0003	/
				0	3.91	-0.127	-0.0001	/	Pass	
					10	3.91	-0.492	-0.0003	/	Pass
				30	3.91	-0.152	-0.0001	/	Pass	
	1732.5	50	0	20	3.5	-0.256	-0.0001	/	Pass	
					3.91	-1.481	-0.0009	/	Pass	
					4.35	-1.422	-0.0008	/	Pass	
				-30	3.91	-1.869	-0.0011	/	Pass	
					-20	3.91	-1.826	-0.0011	/	Pass
						-10	3.91	-1.995	-0.0012	/
				0	3.91	0.466	0.0003	/	Pass	
					10	3.91	0.106	0.0001	/	Pass
				30	3.91	-1.836	-0.0011	/	Pass	
	40	3.91	-1.352	-0.0008	/	Pass				
	50	3.91	0.339	0.0002	/	Pass				
	1750	50	0	20	3.5	-0.668	-0.0004	/	Pass	
					3.91	-1.242	-0.0007	/	Pass	
					4.35	-0.591	-0.0003	/	Pass	
				-30	3.91	-0.495	-0.0003	/	Pass	
					-20	3.91	-0.992	-0.0006	/	Pass
						-10	3.91	-0.503	-0.0003	/
				0	3.91	-0.279	-0.0002	/	Pass	
10					3.91	-1.800	-0.0010	/	Pass	
30				3.91	-1.637	-0.0009	/	Pass		
40	3.91	-1.120	-0.0006	/	Pass					
50	3.91	-2.197	-0.0013	/	Pass					
16QAM	1715	50	0	20	3.5	0.464	0.0003	/	Pass	
					3.91	-1.005	-0.0006	/	Pass	
					4.35	-1.475	-0.0009	/	Pass	
				-30	3.91	-1.995	-0.0012	/	Pass	
					-20	3.91	-1.535	-0.0009	/	Pass
				-10	3.91	-1.358	-0.0008	/	Pass	
0	3.91	-2.881	-0.0017	/	Pass					



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64QAM	1732.5	50	0	10	3.91	-0.722	-0.0004	/	Pass			
				30	3.91	-1.448	-0.0008	/	Pass			
				40	3.91	-1.725	-0.0010	/	Pass			
				50	3.91	-1.000	-0.0006	/	Pass			
				20	3.5	-1.170	-0.0007	/	Pass			
					3.91	-0.325	-0.0002	/	Pass			
					4.35	-0.867	-0.0005	/	Pass			
				-30	3.91	-1.603	-0.0009	/	Pass			
				-20	3.91	-0.631	-0.0004	/	Pass			
				-10	3.91	-1.521	-0.0009	/	Pass			
				0	3.91	-0.244	-0.0001	/	Pass			
				10	3.91	-0.891	-0.0005	/	Pass			
				30	3.91	-0.840	-0.0005	/	Pass			
				40	3.91	-1.638	-0.0009	/	Pass			
	50	3.91	-0.900	-0.0005	/	Pass						
	1750	50	0	20	3.5	-1.361	-0.0008	/	Pass			
					3.91	-0.965	-0.0006	/	Pass			
					4.35	-0.302	-0.0002	/	Pass			
				-30	3.91	-2.189	-0.0013	/	Pass			
				-20	3.91	-0.315	-0.0002	/	Pass			
				-10	3.91	-0.211	-0.0001	/	Pass			
				0	3.91	-2.435	-0.0014	/	Pass			
				10	3.91	-1.147	-0.0007	/	Pass			
				30	3.91	0.219	0.0001	/	Pass			
				40	3.91	-0.567	-0.0003	/	Pass			
				50	3.91	-1.428	-0.0008	/	Pass			
				1715	50	0	20	3.5	0.084	0.0000	/	Pass
								3.91	-1.820	-0.0011	/	Pass
4.35								-0.100	-0.0001	/	Pass	
-30	3.91	-0.832	-0.0005				/	Pass				
-20	3.91	-2.130	-0.0012				/	Pass				
-10	3.91	-1.311	-0.0008				/	Pass				
0	3.91	-0.563	-0.0003				/	Pass				
10	3.91	-0.531	-0.0003				/	Pass				
30	3.91	-0.192	-0.0001				/	Pass				
40	3.91	-1.301	-0.0008				/	Pass				
50	3.91	-2.432	-0.0014				/	Pass				
1732.5	50	0	20				3.5	-1.034	-0.0006	/	Pass	
							3.91	-0.477	-0.0003	/	Pass	
							4.35	-1.958	-0.0011	/	Pass	
			-30	3.91	0.331	0.0002	/	Pass				
			-20	3.91	-1.885	-0.0011	/	Pass				
			-10	3.91	-0.187	-0.0001	/	Pass				
			0	3.91	0.433	0.0002	/	Pass				
			10	3.91	0.092	0.0001	/	Pass				
			30	3.91	-2.230	-0.0013	/	Pass				
			40	3.91	-1.419	-0.0008	/	Pass				
			50	3.91	-1.269	-0.0007	/	Pass				
			1750	50	0	20	3.5	-2.686	-0.0015	/	Pass	
							3.91	-1.452	-0.0008	/	Pass	



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 25 of 395

				4.35	-0.013	0.0000	/	Pass
				-30	3.91	0.158	/	Pass
				-20	3.91	-0.989	/	Pass
				-10	3.91	-1.474	/	Pass
				0	3.91	-0.683	/	Pass
				10	3.91	-0.032	/	Pass
				30	3.91	-1.513	/	Pass
				40	3.91	-0.671	/	Pass
				50	3.91	-1.331	/	Pass



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2.5 B4_15MHz

2.5.1 Test Result

Band: 4 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1717.5	75	0	20	3.5	-0.226	-0.0001	/	Pass	
					3.91	0.515	0.0003	/	Pass	
					4.35	-1.332	-0.0008	/	Pass	
				-30	3.91	-0.063	0.0000	/	Pass	
					-20	3.91	0.196	0.0001	/	Pass
						-10	3.91	-0.687	-0.0004	/
				0	3.91	-0.453	-0.0003	/	Pass	
					10	3.91	-0.684	-0.0004	/	Pass
				30	3.91	-0.480	-0.0003	/	Pass	
	40	3.91	-0.428	-0.0002	/	Pass				
	50	3.91	-0.560	-0.0003	/	Pass				
	1732.5	75	0	20	3.5	-1.404	-0.0008	/	Pass	
					3.91	-1.929	-0.0011	/	Pass	
					4.35	-1.580	-0.0009	/	Pass	
				-30	3.91	-0.466	-0.0003	/	Pass	
					-20	3.91	-0.687	-0.0004	/	Pass
						-10	3.91	-1.346	-0.0008	/
				0	3.91	-2.679	-0.0015	/	Pass	
					10	3.91	-2.434	-0.0014	/	Pass
				30	3.91	-1.293	-0.0007	/	Pass	
	40	3.91	-2.622	-0.0015	/	Pass				
	50	3.91	-1.845	-0.0011	/	Pass				
	1747.5	75	0	20	3.5	-1.088	-0.0006	/	Pass	
					3.91	-1.299	-0.0007	/	Pass	
					4.35	-2.770	-0.0016	/	Pass	
				-30	3.91	-2.833	-0.0016	/	Pass	
					-20	3.91	-2.579	-0.0015	/	Pass
-10						3.91	-1.216	-0.0007	/	Pass
0				3.91	-1.727	-0.0010	/	Pass		
				10	3.91	-0.852	-0.0005	/	Pass	
30				3.91	-1.169	-0.0007	/	Pass		
40	3.91	-1.277	-0.0007	/	Pass					
50	3.91	-0.995	-0.0006	/	Pass					
16QAM	1717.5	75	0	20	3.5	-1.057	-0.0006	/	Pass	
					3.91	-0.654	-0.0004	/	Pass	
					4.35	-1.777	-0.0010	/	Pass	
				-30	3.91	-1.774	-0.0010	/	Pass	
					-20	3.91	-0.965	-0.0006	/	Pass
				-10	3.91	-0.611	-0.0004	/	Pass	
0	3.91	1.228	0.0007	/	Pass					



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64QAM	1732.5	75	0	10	3.91	-0.349	-0.0002	/	Pass			
				30	3.91	-0.792	-0.0005	/	Pass			
				40	3.91	-1.818	-0.0011	/	Pass			
				50	3.91	-0.729	-0.0004	/	Pass			
				20	3.5	-0.832	-0.0005	/	Pass			
					3.91	-1.756	-0.0010	/	Pass			
					4.35	-2.445	-0.0014	/	Pass			
				-30	3.91	-1.591	-0.0009	/	Pass			
				-20	3.91	-0.987	-0.0006	/	Pass			
				-10	3.91	-2.387	-0.0014	/	Pass			
				0	3.91	-1.447	-0.0008	/	Pass			
				10	3.91	-1.521	-0.0009	/	Pass			
				30	3.91	-1.846	-0.0011	/	Pass			
				40	3.91	-0.854	-0.0005	/	Pass			
	50	3.91	-1.309	-0.0008	/	Pass						
	1747.5	75	0	20	3.5	-2.023	-0.0012	/	Pass			
					3.91	-0.683	-0.0004	/	Pass			
					4.35	-0.643	-0.0004	/	Pass			
				-30	3.91	-0.098	-0.0001	/	Pass			
				-20	3.91	0.137	0.0001	/	Pass			
				-10	3.91	-0.292	-0.0002	/	Pass			
				0	3.91	-0.988	-0.0006	/	Pass			
				10	3.91	-0.980	-0.0006	/	Pass			
				30	3.91	-1.193	-0.0007	/	Pass			
				40	3.91	-1.689	-0.0010	/	Pass			
				50	3.91	-0.584	-0.0003	/	Pass			
				1717.5	75	0	20	3.5	0.303	0.0002	/	Pass
								3.91	-0.128	-0.0001	/	Pass
4.35								-0.876	-0.0005	/	Pass	
-30	3.91	-0.715	-0.0004				/	Pass				
-20	3.91	-1.101	-0.0006				/	Pass				
-10	3.91	0.030	0.0000				/	Pass				
0	3.91	-0.543	-0.0003				/	Pass				
10	3.91	0.415	0.0002				/	Pass				
30	3.91	-1.189	-0.0007				/	Pass				
40	3.91	-1.030	-0.0006				/	Pass				
50	3.91	-1.053	-0.0006				/	Pass				
1732.5	75	0	20				3.5	-2.130	-0.0012	/	Pass	
							3.91	-1.907	-0.0011	/	Pass	
							4.35	-1.517	-0.0009	/	Pass	
			-30	3.91	-0.459	-0.0003	/	Pass				
			-20	3.91	-1.487	-0.0009	/	Pass				
			-10	3.91	-0.649	-0.0004	/	Pass				
			0	3.91	-1.714	-0.0010	/	Pass				
			10	3.91	-2.195	-0.0013	/	Pass				
			30	3.91	-0.210	-0.0001	/	Pass				
			40	3.91	-0.529	-0.0003	/	Pass				
			50	3.91	-1.731	-0.0010	/	Pass				
			1747.5	75	0	20	3.5	-2.242	-0.0013	/	Pass	
							3.91	-1.308	-0.0007	/	Pass	



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 28 of 395

				4.35	-1.436	-0.0008	/	Pass
			-30	3.91	-1.947	-0.0011	/	Pass
			-20	3.91	0.351	0.0002	/	Pass
			-10	3.91	-1.837	-0.0011	/	Pass
			0	3.91	-0.499	-0.0003	/	Pass
			10	3.91	-0.119	-0.0001	/	Pass
			30	3.91	-0.665	-0.0004	/	Pass
			40	3.91	-1.276	-0.0007	/	Pass
			50	3.91	-1.231	-0.0007	/	Pass



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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	3.5	0.246	0.0001	/	Pass			
					3.91	-0.342	-0.0002	/	Pass			
					4.35	-1.770	-0.0010	/	Pass			
				-30	3.91	-1.423	-0.0008	/	Pass			
					-20	3.91	-0.775	-0.0005	/	Pass		
						-10	3.91	-1.101	-0.0006	/	Pass	
				0	3.91	-1.561	-0.0009	/	Pass			
				10	3.91	-1.674	-0.0010	/	Pass			
				30	3.91	-0.475	-0.0003	/	Pass			
				40	3.91	-1.502	-0.0009	/	Pass			
				50	3.91	-0.739	-0.0004	/	Pass			
				1732.5	100	0	20	3.5	-1.532	-0.0009	/	Pass
								3.91	-0.166	-0.0001	/	Pass
								4.35	-1.683	-0.0010	/	Pass
							-30	3.91	-2.499	-0.0014	/	Pass
	-20	3.91	-2.126					-0.0012	/	Pass		
		-10	3.91					-3.011	-0.0017	/	Pass	
	0	3.91	-0.950				-0.0005	/	Pass			
	10	3.91	-1.204				-0.0007	/	Pass			
	30	3.91	-2.420				-0.0014	/	Pass			
	40	3.91	-2.369				-0.0014	/	Pass			
	50	3.91	-1.844				-0.0011	/	Pass			
	1745	100	0				20	3.5	-1.482	-0.0008	/	Pass
								3.91	-1.946	-0.0011	/	Pass
								4.35	-1.276	-0.0007	/	Pass
							-30	3.91	-1.529	-0.0009	/	Pass
				-20	3.91	-0.406		-0.0002	/	Pass		
					-10	3.91		-0.999	-0.0006	/	Pass	
				0	3.91	-0.444	-0.0003	/	Pass			
				10	3.91	-1.280	-0.0007	/	Pass			
30				3.91	-0.859	-0.0005	/	Pass				
40				3.91	-1.068	-0.0006	/	Pass				
50				3.91	-1.760	-0.0010	/	Pass				
16QAM				1720	100	0	20	3.5	0.422	0.0002	/	Pass
								3.91	-0.123	-0.0001	/	Pass
								4.35	-0.768	-0.0004	/	Pass
							-30	3.91	-0.243	-0.0001	/	Pass
	-20	3.91	-0.135					-0.0001	/	Pass		
	-10	3.91	-0.712				-0.0004	/	Pass			
	0	3.91	-1.833				-0.0011	/	Pass			



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64QAM	1732.5	100	0	10	3.91	-0.223	-0.0001	/	Pass			
				30	3.91	-1.617	-0.0009	/	Pass			
				40	3.91	-1.228	-0.0007	/	Pass			
				50	3.91	-0.656	-0.0004	/	Pass			
				20	3.5	-1.998	-0.0012	/	Pass			
					3.91	-1.576	-0.0009	/	Pass			
					4.35	-0.751	-0.0004	/	Pass			
				-30	3.91	-0.220	-0.0001	/	Pass			
				-20	3.91	-2.033	-0.0012	/	Pass			
				-10	3.91	-2.619	-0.0015	/	Pass			
				0	3.91	-0.481	-0.0003	/	Pass			
				10	3.91	-1.953	-0.0011	/	Pass			
				30	3.91	-1.672	-0.0010	/	Pass			
				40	3.91	-0.914	-0.0005	/	Pass			
				50	3.91	-1.771	-0.0010	/	Pass			
	1745	100	0	20	3.5	-1.745	-0.0010	/	Pass			
					3.91	-1.775	-0.0010	/	Pass			
					4.35	-1.334	-0.0008	/	Pass			
				-30	3.91	-0.531	-0.0003	/	Pass			
				-20	3.91	-0.247	-0.0001	/	Pass			
				-10	3.91	-0.288	-0.0002	/	Pass			
				0	3.91	-2.477	-0.0014	/	Pass			
				10	3.91	-1.918	-0.0011	/	Pass			
				30	3.91	-0.641	-0.0004	/	Pass			
				40	3.91	-0.346	-0.0002	/	Pass			
				50	3.91	-1.220	-0.0007	/	Pass			
				1720	100	0	20	3.5	-0.576	-0.0003	/	Pass
								3.91	0.049	0.0000	/	Pass
								4.35	-1.275	-0.0007	/	Pass
							-30	3.91	0.058	0.0000	/	Pass
-20	3.91	-1.094	-0.0006				/	Pass				
-10	3.91	0.085	0.0000				/	Pass				
0	3.91	-0.671	-0.0004				/	Pass				
10	3.91	-0.387	-0.0002				/	Pass				
30	3.91	-1.777	-0.0010				/	Pass				
40	3.91	-1.320	-0.0008				/	Pass				
50	3.91	-0.391	-0.0002				/	Pass				
1732.5	100	0	20				3.5	-1.268	-0.0007	/	Pass	
							3.91	-1.801	-0.0010	/	Pass	
							4.35	-2.175	-0.0013	/	Pass	
			-30				3.91	-0.696	-0.0004	/	Pass	
			-20	3.91	-2.312	-0.0013	/	Pass				
			-10	3.91	-1.981	-0.0011	/	Pass				
			0	3.91	-1.629	-0.0009	/	Pass				
			10	3.91	-1.626	-0.0009	/	Pass				
			30	3.91	-1.452	-0.0008	/	Pass				
			40	3.91	-1.767	-0.0010	/	Pass				
			50	3.91	-0.706	-0.0004	/	Pass				
			1745	100	0	20	3.5	-1.948	-0.0011	/	Pass	
							3.91	-1.352	-0.0008	/	Pass	



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 31 of 395

				4.35	0.679	0.0004	/	Pass
			-30	3.91	1.048	0.0006	/	Pass
			-20	3.91	-0.899	-0.0005	/	Pass
			-10	3.91	-0.217	-0.0001	/	Pass
			0	3.91	-1.821	-0.0010	/	Pass
			10	3.91	-2.104	-0.0012	/	Pass
			30	3.91	0.119	0.0001	/	Pass
			40	3.91	-1.810	-0.0010	/	Pass
			50	3.91	0.296	0.0002	/	Pass



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3. 99% & 26dB Bandwidth

3.1 Band4_OBW

3.1.1 Test Result

Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.127	/	Pass
		1732.5	6	0	1.128	/	Pass
		1754.3	6	0	1.120	/	Pass
	16QAM	1710.7	6	0	1.121	/	Pass
		1732.5	6	0	1.128	/	Pass
		1754.3	6	0	1.126	/	Pass
	64QAM	1710.7	6	0	1.118	/	Pass
		1732.5	6	0	1.121	/	Pass
		1754.3	6	0	1.124	/	Pass
3	QPSK	1711.5	15	0	2.740	/	Pass
		1732.5	15	0	2.746	/	Pass
		1753.5	15	0	2.753	/	Pass
	16QAM	1711.5	15	0	2.760	/	Pass
		1732.5	15	0	2.754	/	Pass
		1753.5	15	0	2.748	/	Pass
	64QAM	1711.5	15	0	2.748	/	Pass
		1732.5	15	0	2.752	/	Pass
		1753.5	15	0	2.749	/	Pass
5	QPSK	1712.5	25	0	4.598	/	Pass
		1732.5	25	0	4.576	/	Pass
		1752.5	25	0	4.579	/	Pass
	16QAM	1712.5	25	0	4.572	/	Pass
		1732.5	25	0	4.565	/	Pass
		1752.5	25	0	4.578	/	Pass
	64QAM	1712.5	25	0	4.578	/	Pass
		1732.5	25	0	4.593	/	Pass
		1752.5	25	0	4.579	/	Pass
10	QPSK	1715	50	0	9.069	/	Pass
		1732.5	50	0	9.099	/	Pass
		1750	50	0	9.069	/	Pass
	16QAM	1715	50	0	9.083	/	Pass
		1732.5	50	0	9.111	/	Pass
		1750	50	0	9.107	/	Pass
	64QAM	1715	50	0	9.080	/	Pass
		1732.5	50	0	9.122	/	Pass
		1750	50	0	9.078	/	Pass
15	QPSK	1717.5	75	0	13.637	/	Pass
		1732.5	75	0	13.698	/	Pass



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	16QAM	1747.5	75	0	13.599	/	Pass	
		1717.5	75	0	13.645	/	Pass	
		1732.5	75	0	13.692	/	Pass	
	64QAM	1747.5	75	0	13.605	/	Pass	
		1717.5	75	0	13.604	/	Pass	
		1732.5	75	0	13.686	/	Pass	
	20	QPSK	1747.5	75	0	13.597	/	Pass
			1720	100	0	18.074	/	Pass
			1732.5	100	0	18.234	/	Pass
16QAM		1745	100	0	18.113	/	Pass	
		1720	100	0	18.118	/	Pass	
		1732.5	100	0	18.310	/	Pass	
64QAM		1745	100	0	18.151	/	Pass	
		1720	100	0	18.143	/	Pass	
		1732.5	100	0	18.269	/	Pass	
		1745	100	0	18.166	/	Pass	

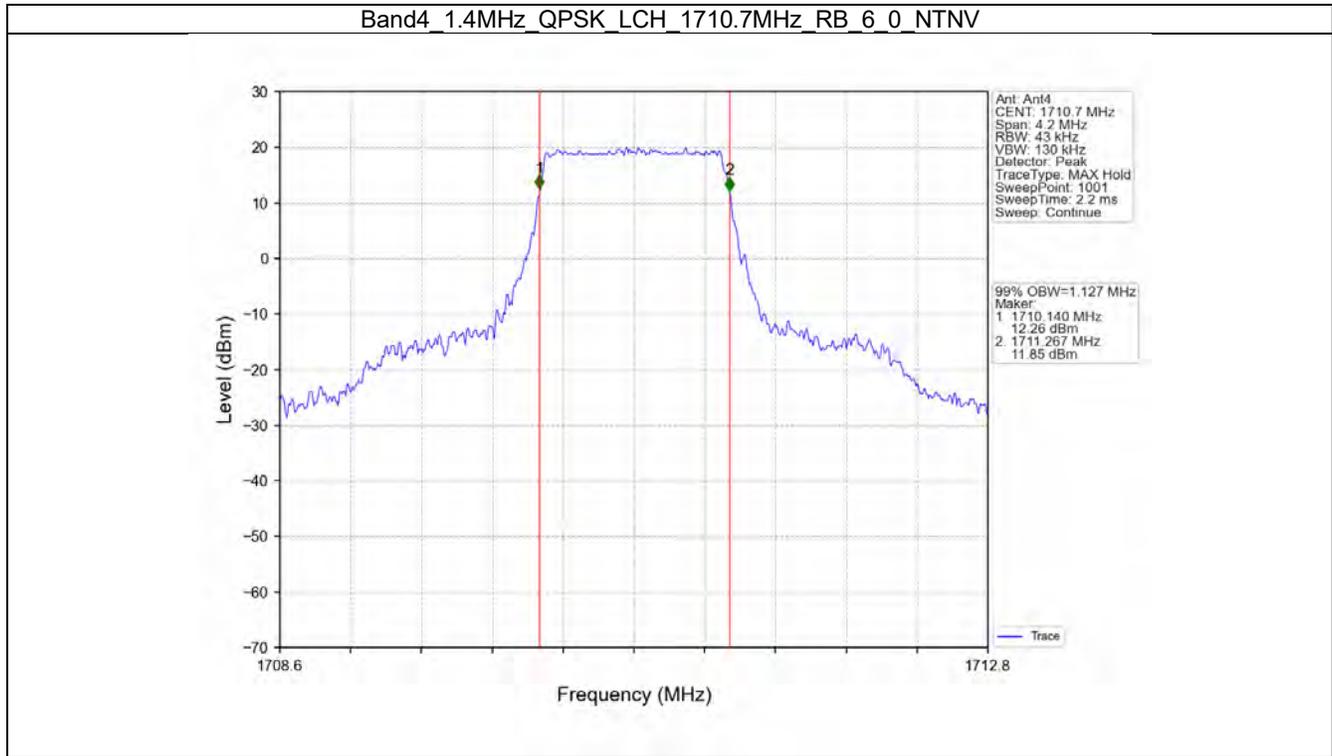


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3.1.2 Test Graph

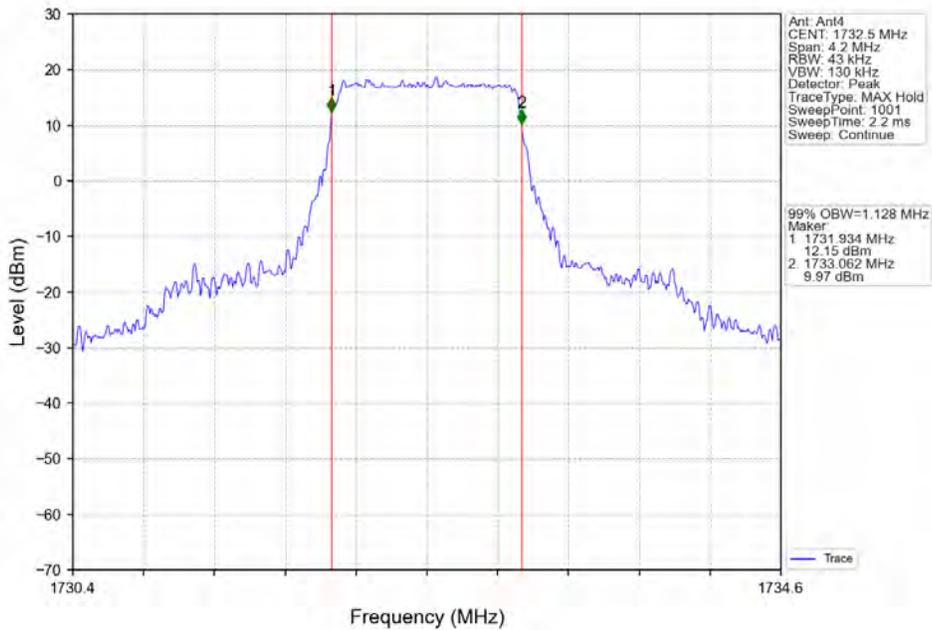


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Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV

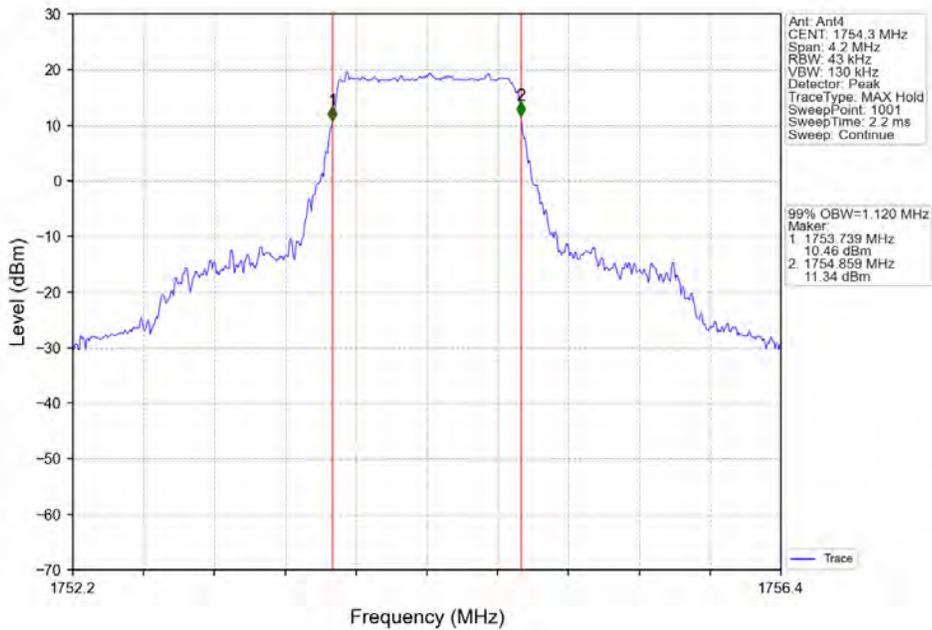


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Band4_1.4MHz_QPSK_HCH_1754.3MHz_RB_6_0_NTNV

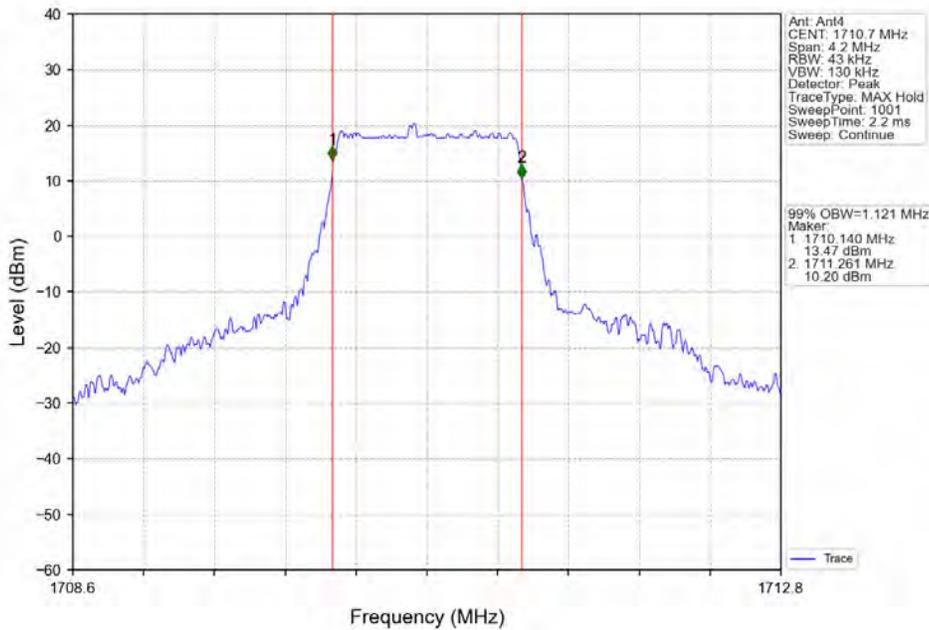


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Band4_1.4MHz_16QAM_LCH_1710.7MHz_RB_6_0_NTNV



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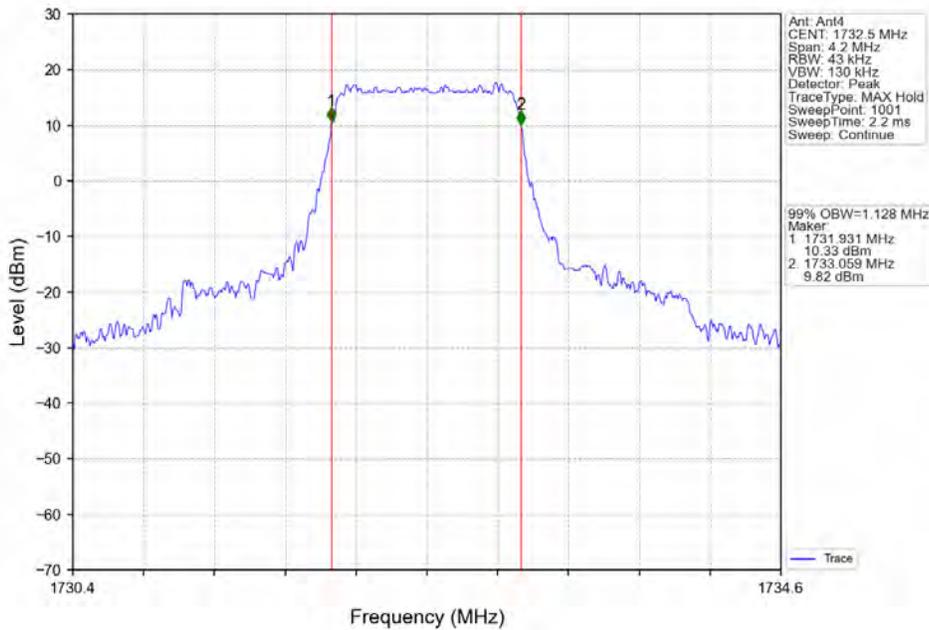
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 38 of 395

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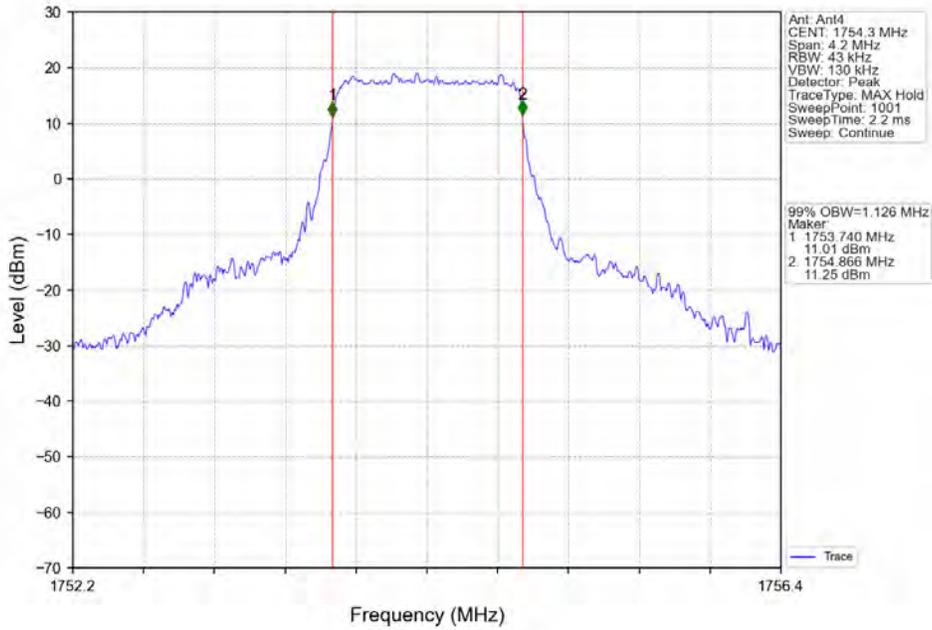
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Band4_1.4MHz_16QAM_HCH_1754.3MHz_RB_6_0_NTNV



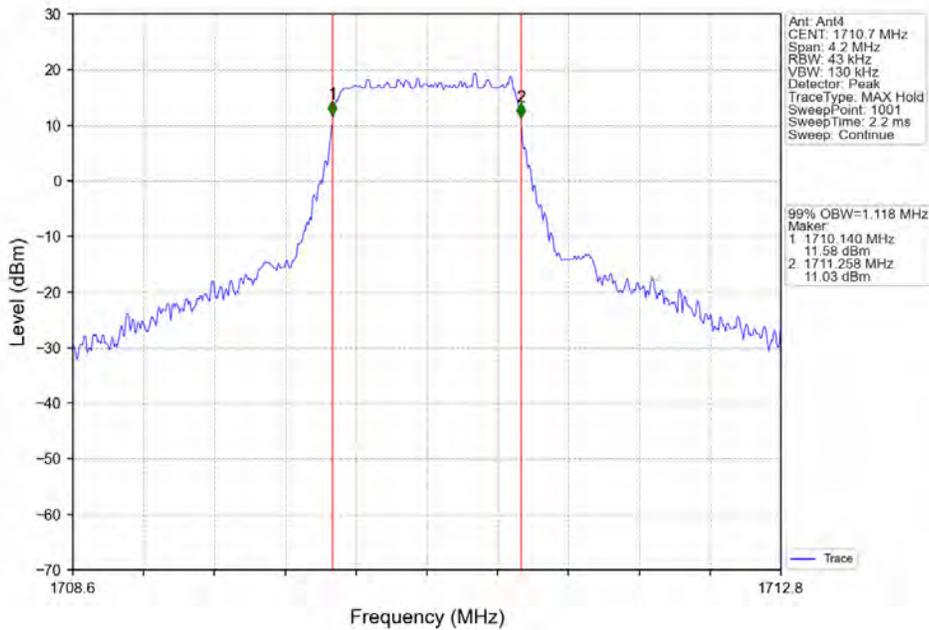
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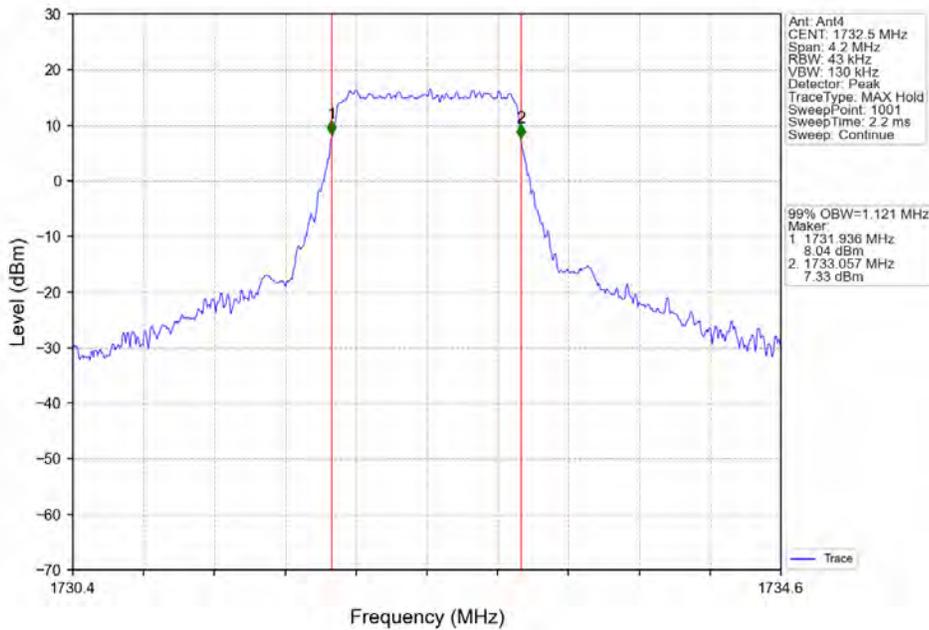


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Band4 1.4MHz 64QAM MCH_1732.5MHz_RB_6_0_NTNV

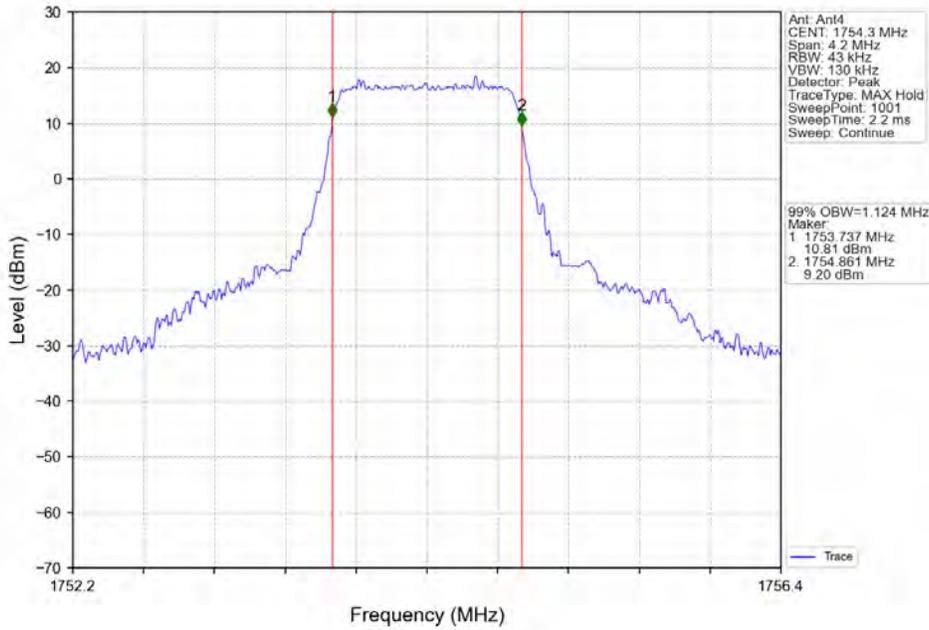


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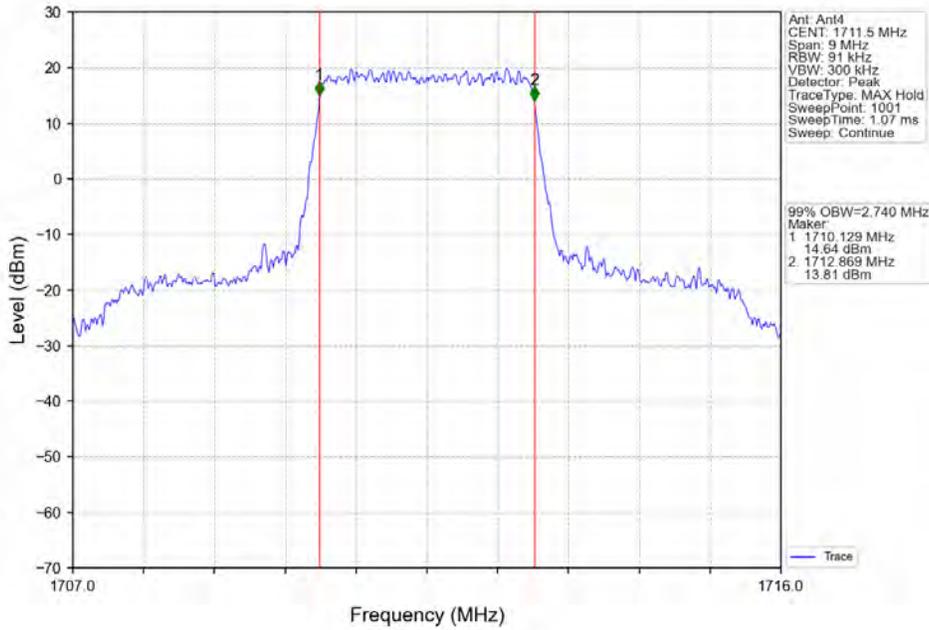


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Band4 3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

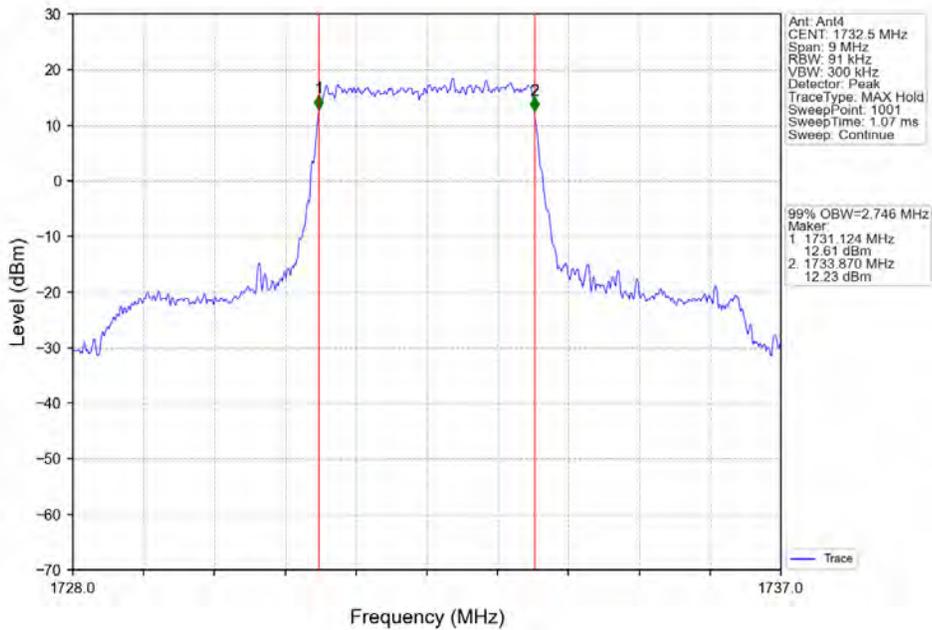


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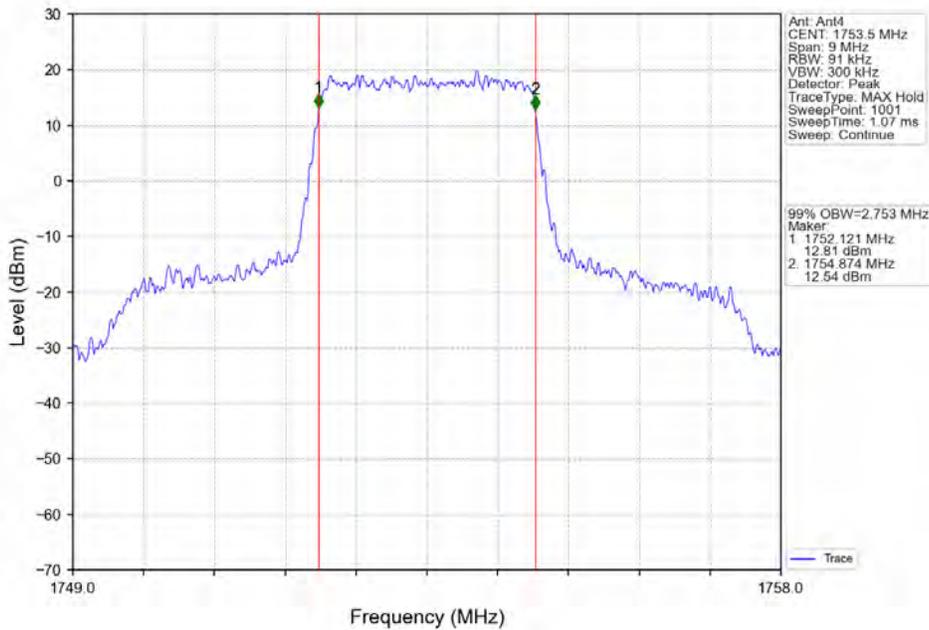


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

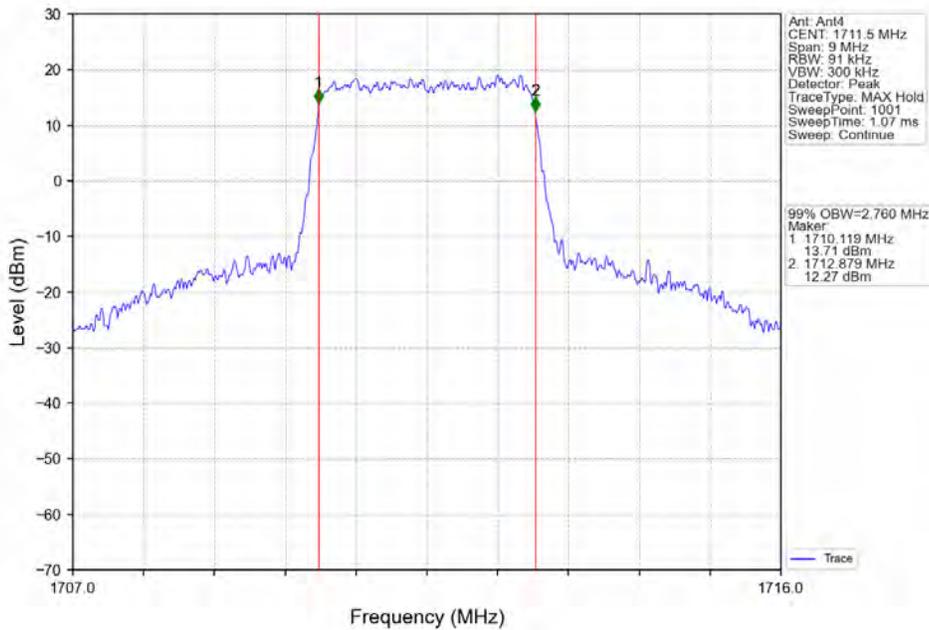


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

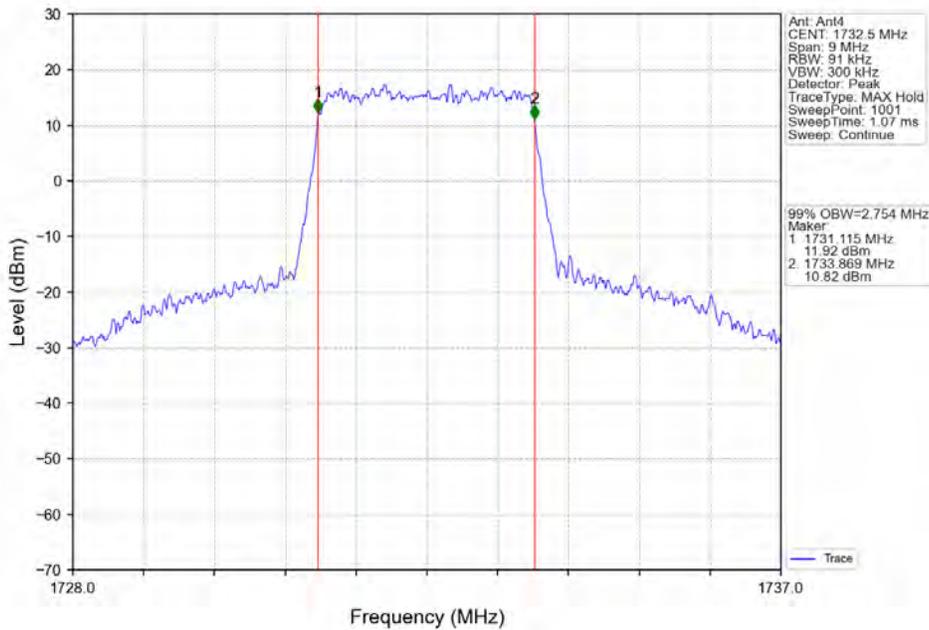


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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

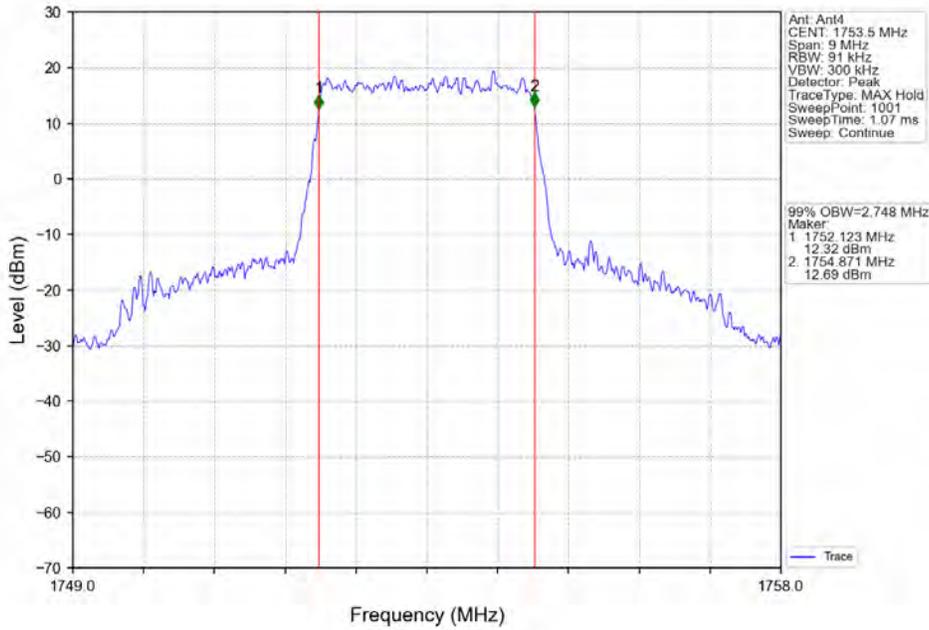


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Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV

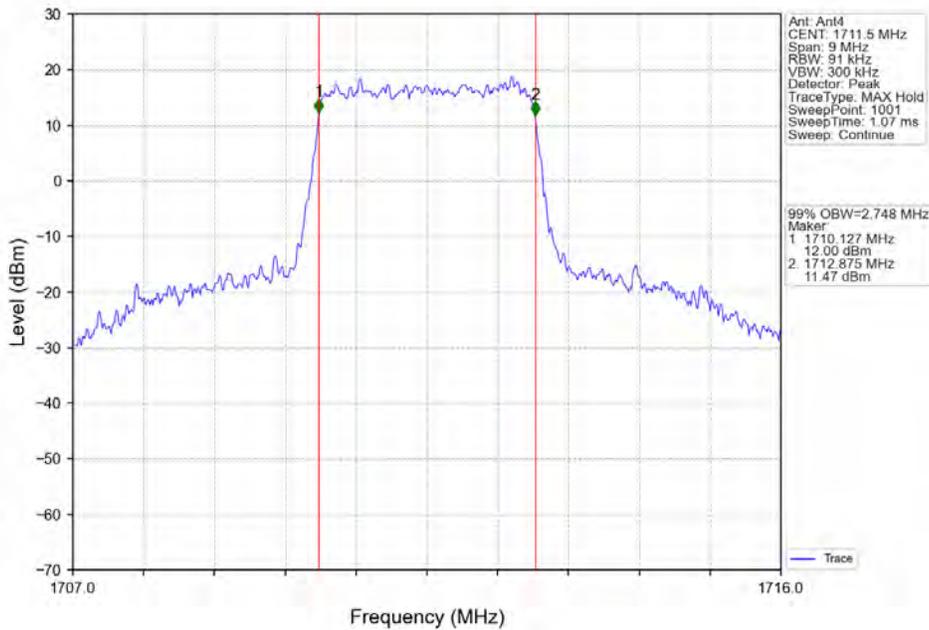


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Band4_3MHz_64QAM_LCH_1711.5MHz_RB_15_0_NTNV

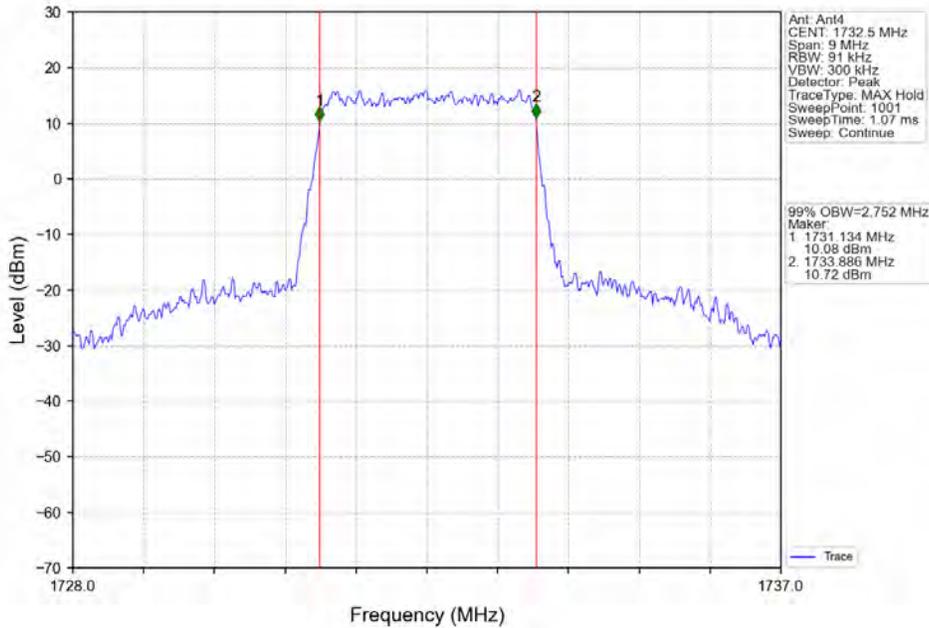


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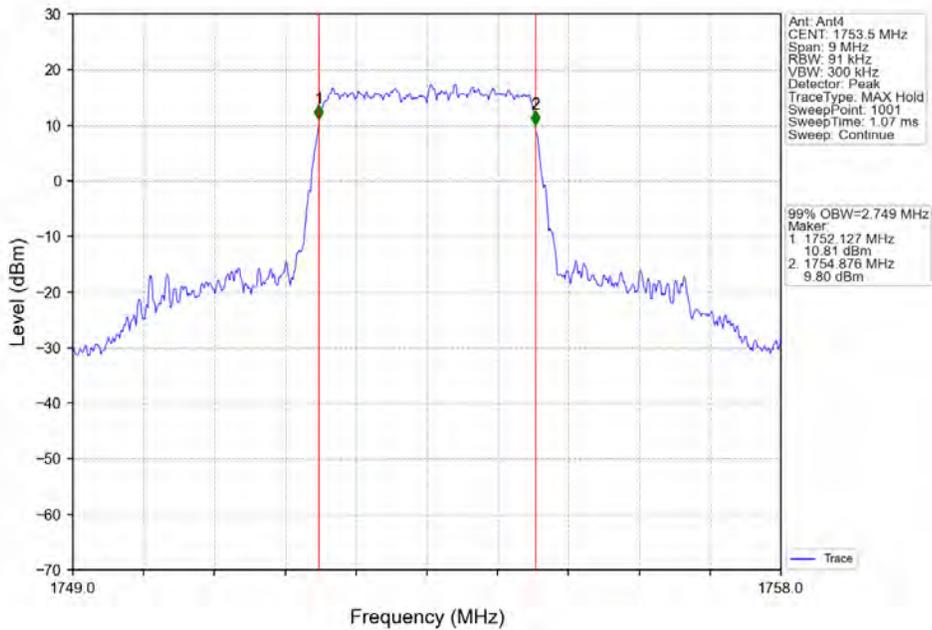


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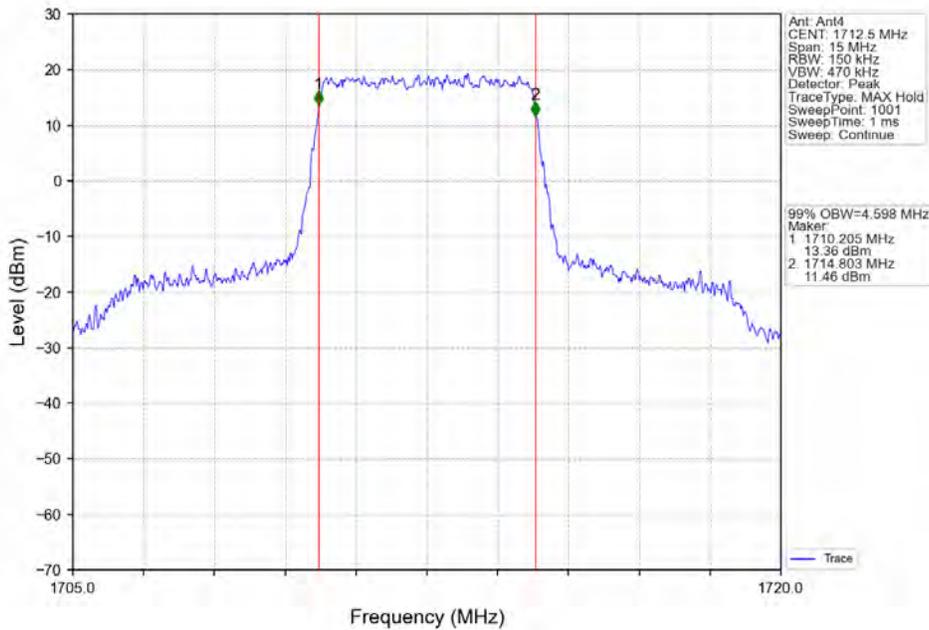
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 52 of 395

Band4 5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



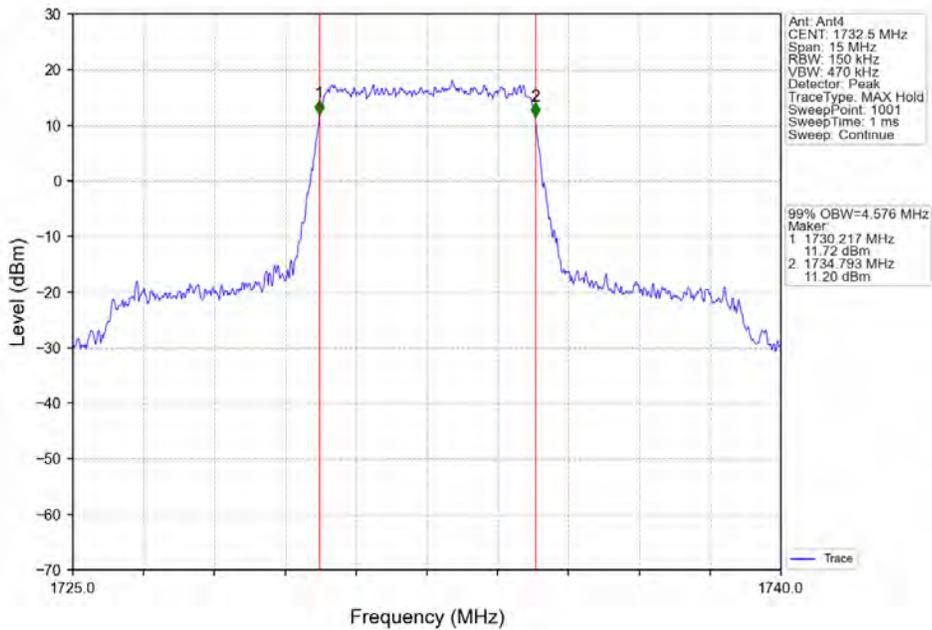
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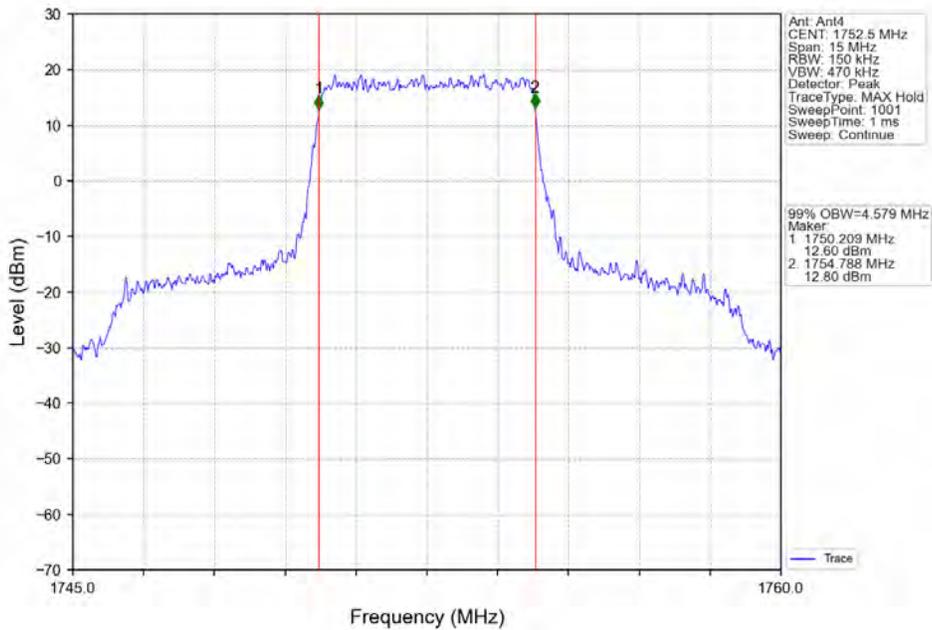
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 54 of 395

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



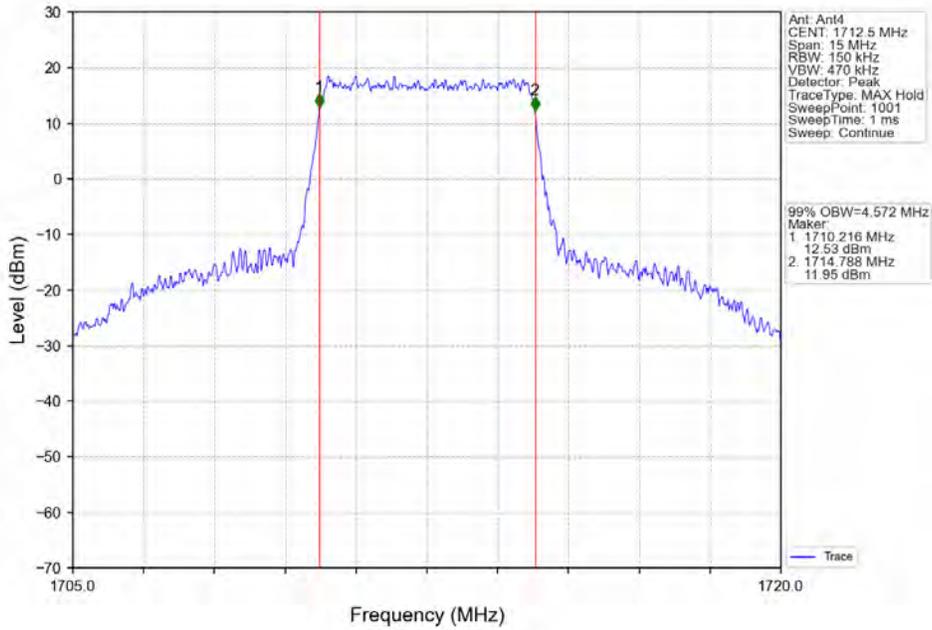
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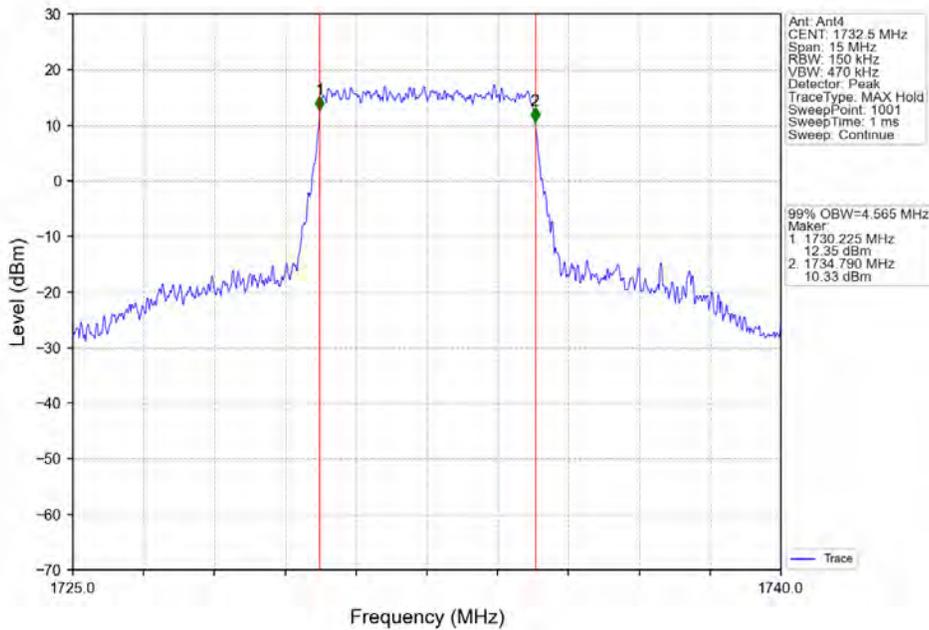


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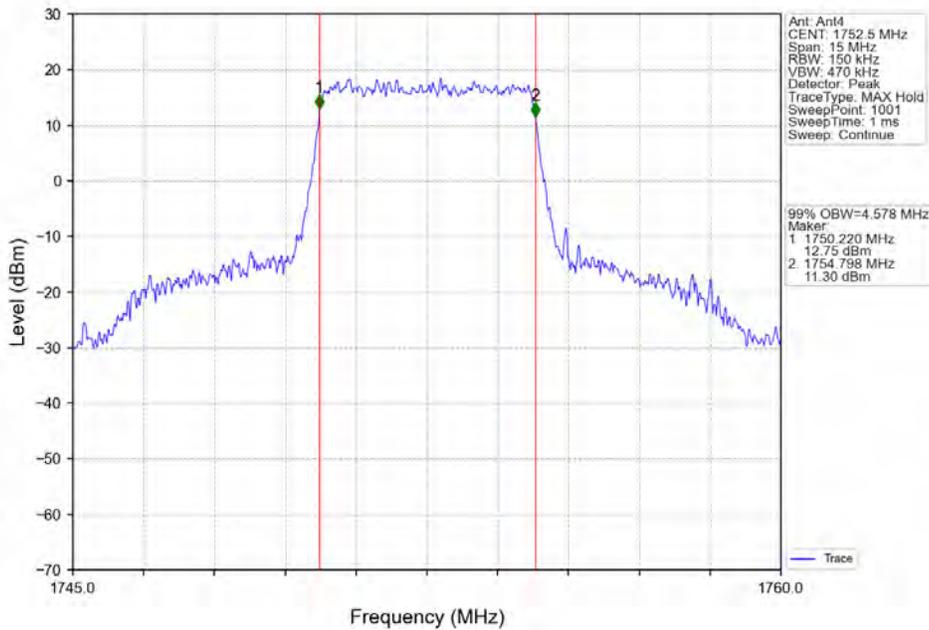


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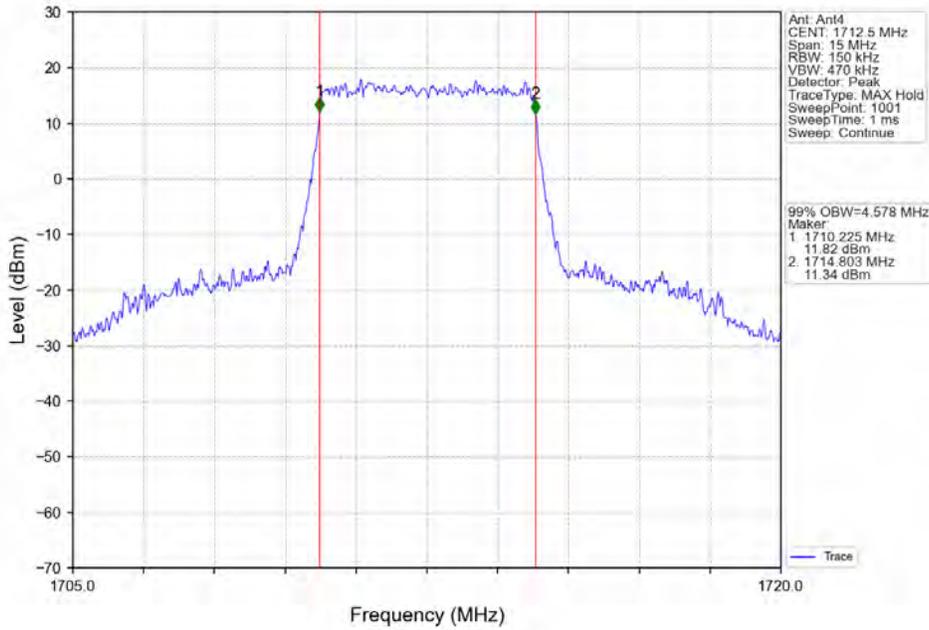
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 58 of 395

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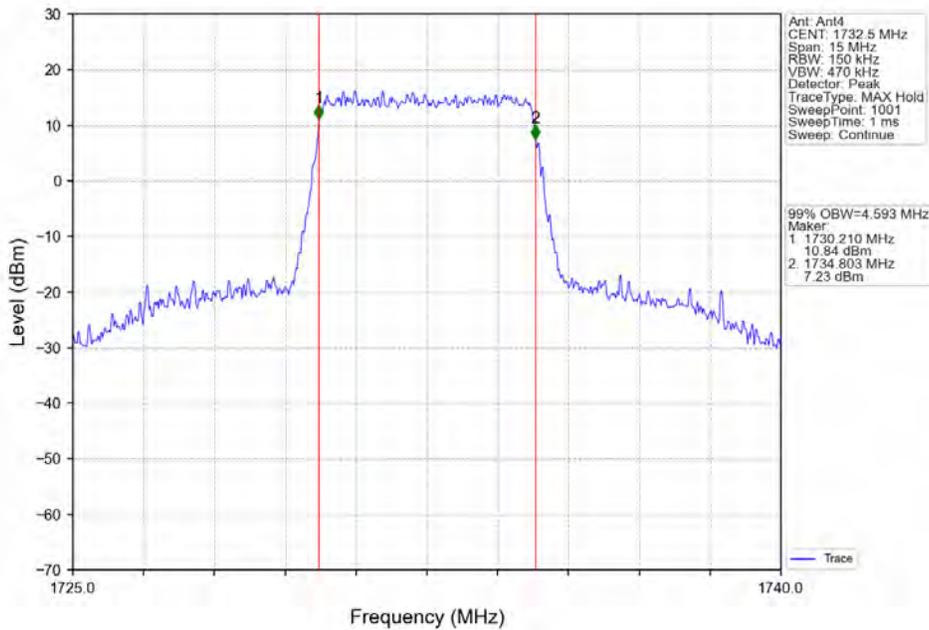
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 59 of 395

Band4_5MHz_64QAM_MCH_1732.5MHz_RB_25_0_NTNV



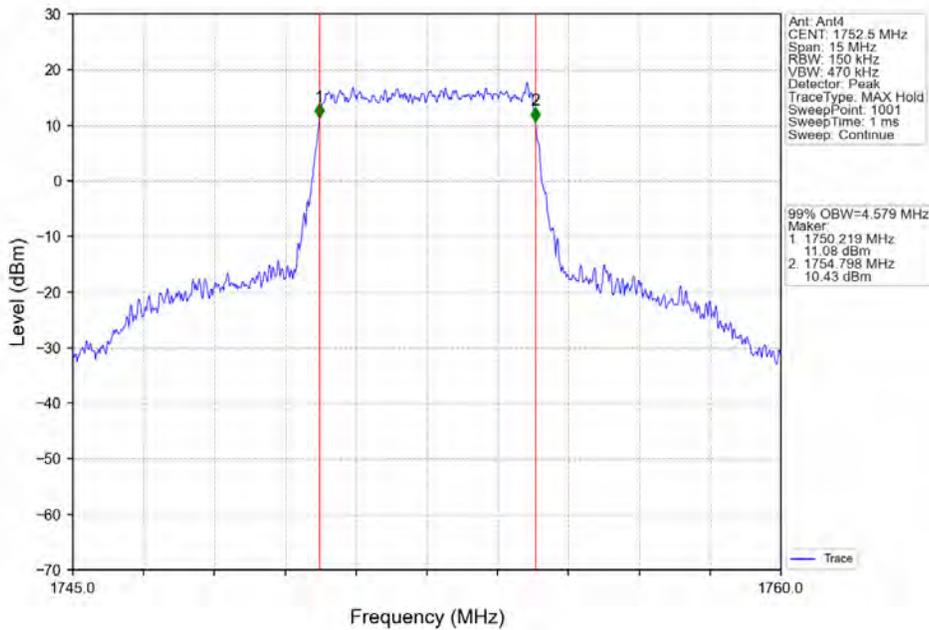
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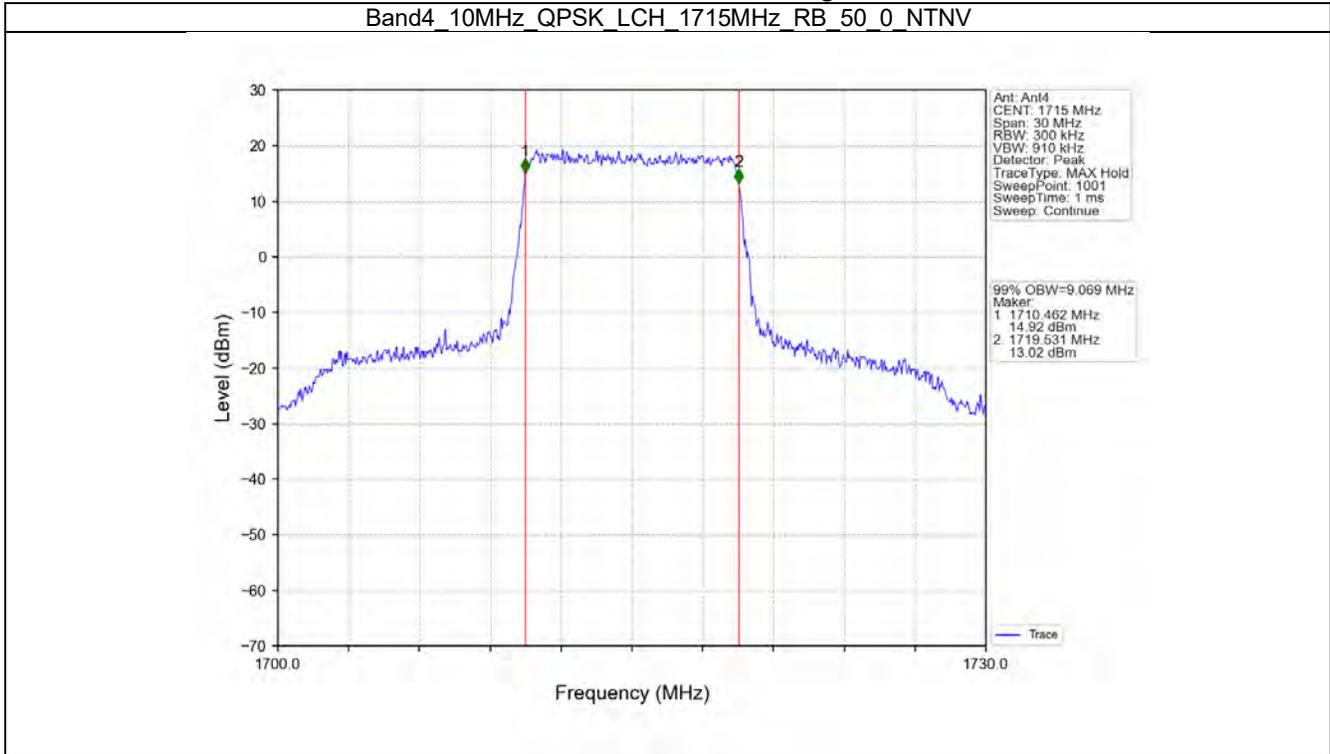
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 61 of 395

Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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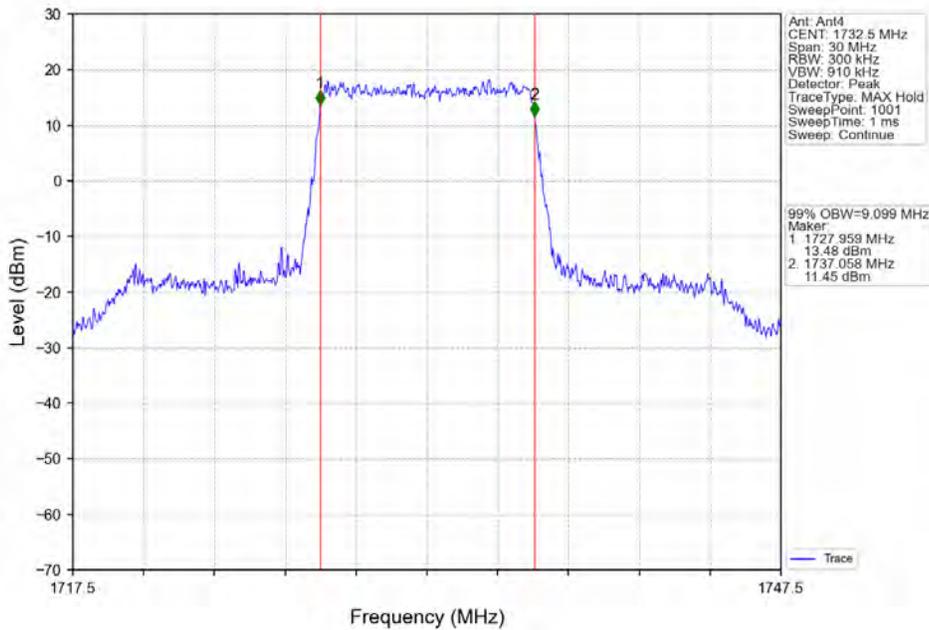
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 62 of 395

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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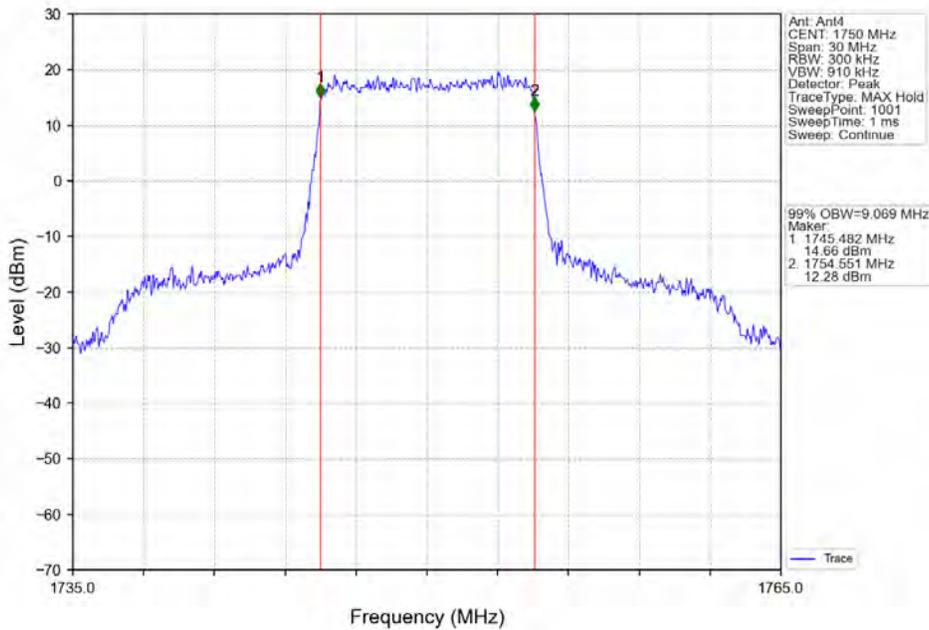
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 63 of 395

Band4 10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV

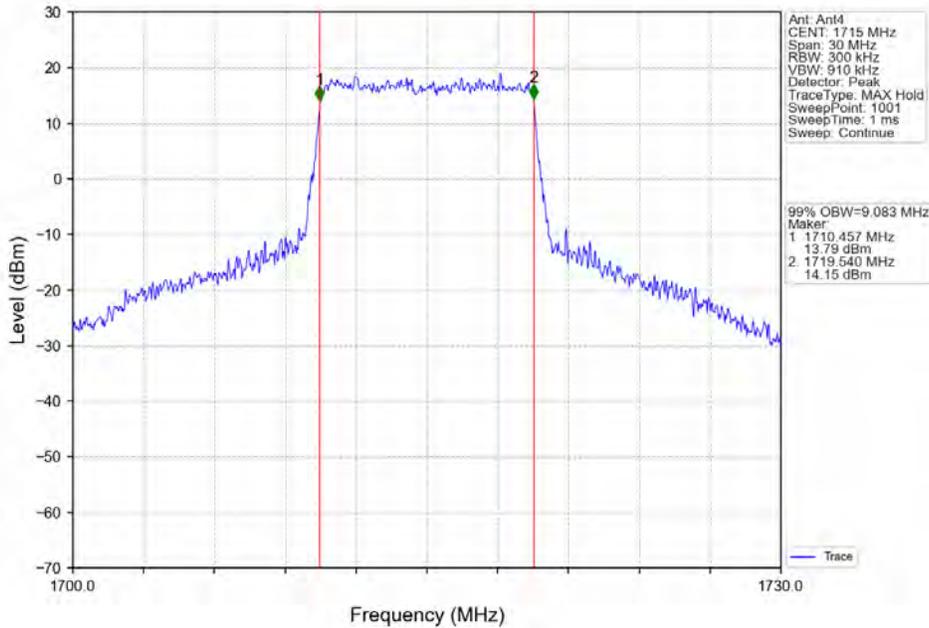


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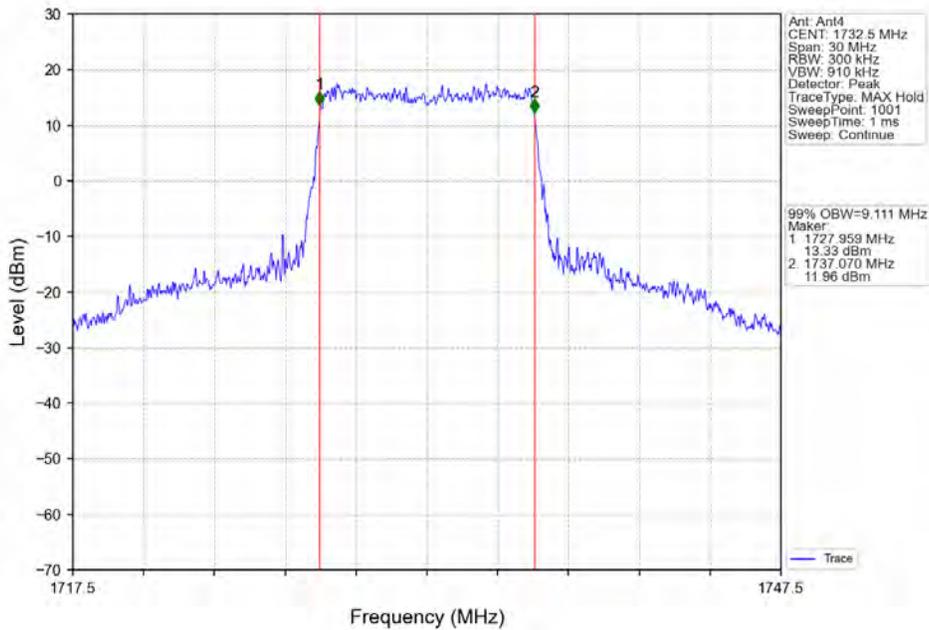
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 65 of 395

Band4 10MHz 16QAM MCH 1732.5MHz RB 50_0 NTN



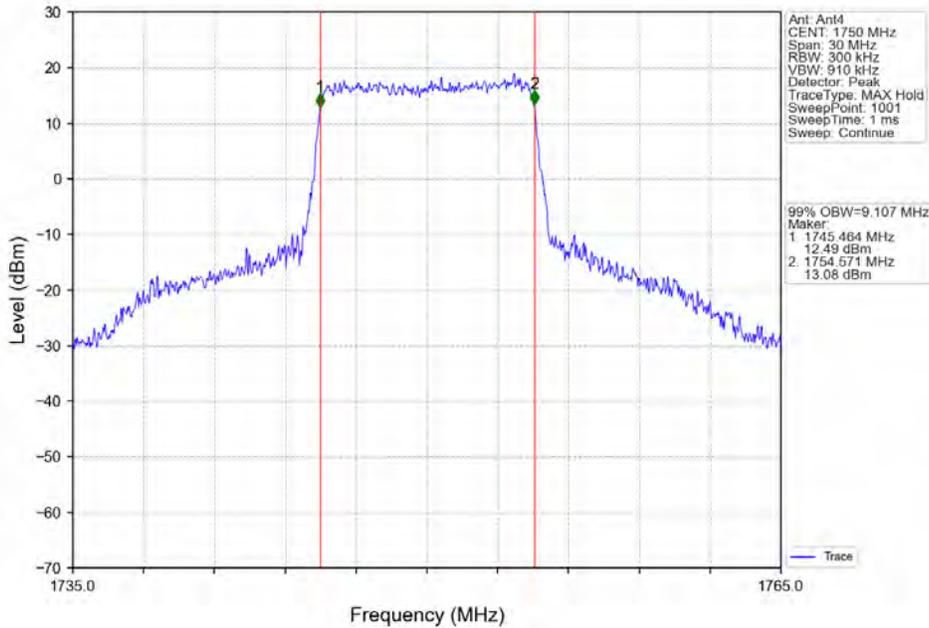
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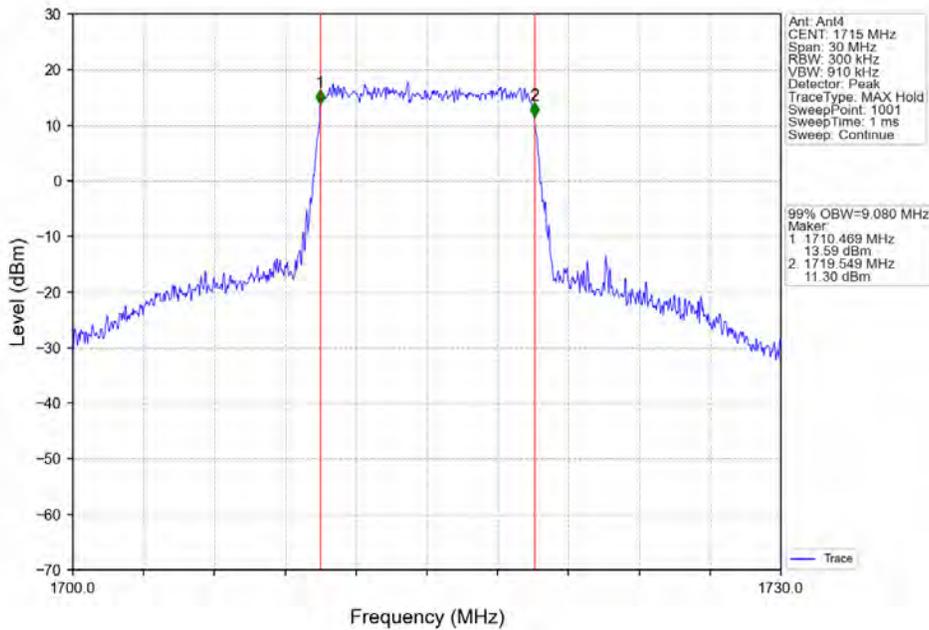


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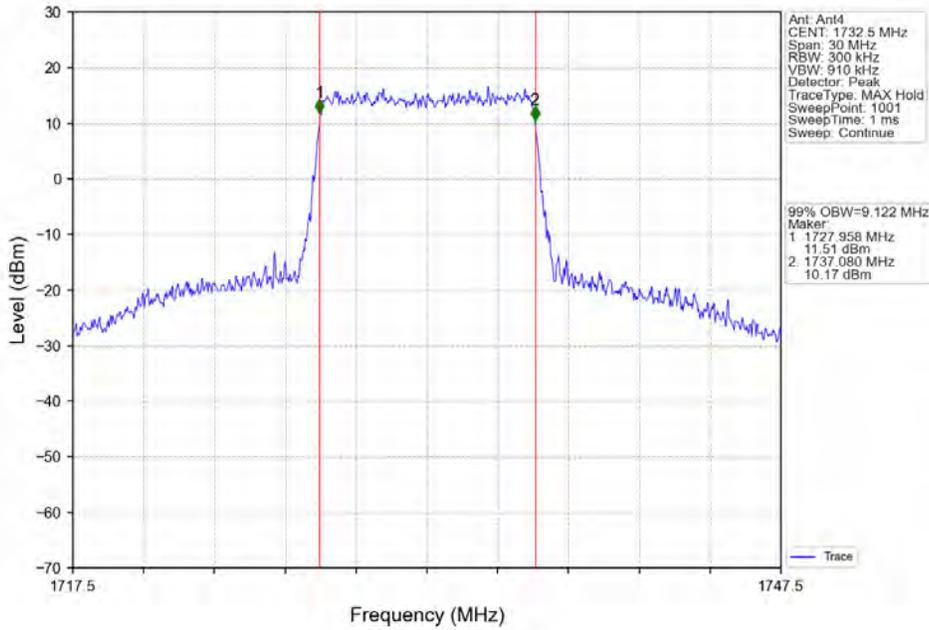
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Rev.: 01

Page: 68 of 395

Band4 10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV

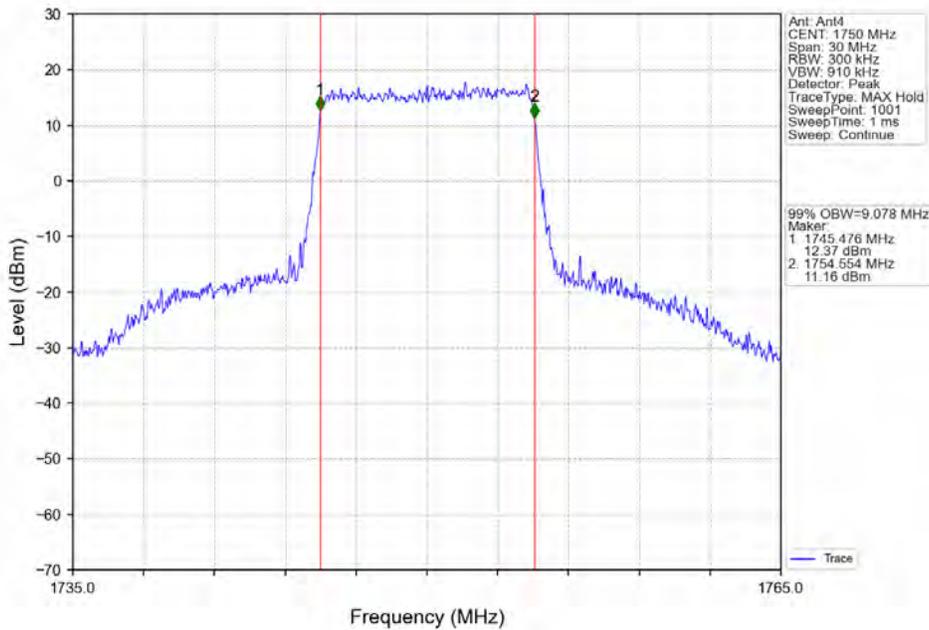


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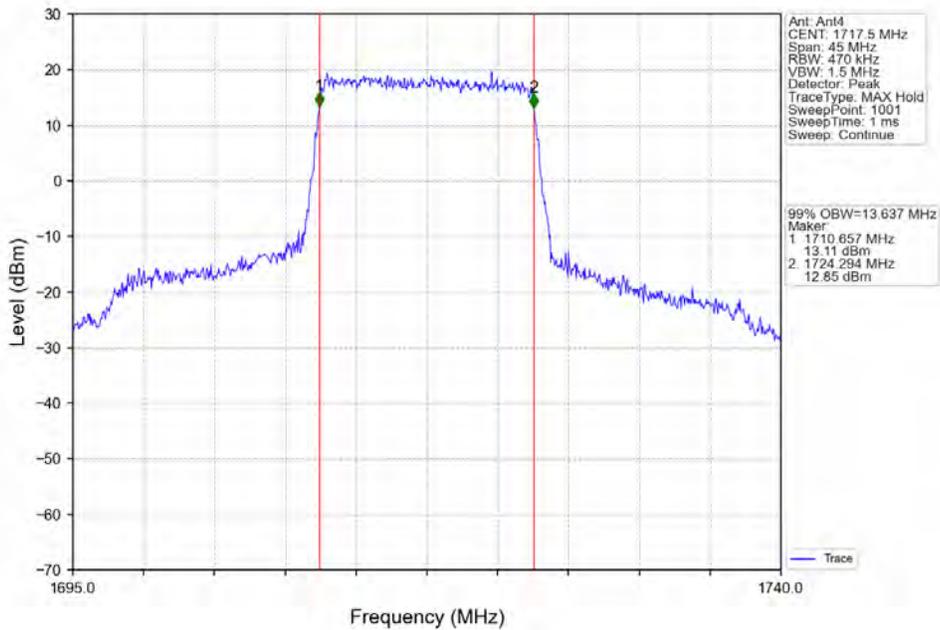
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Rev.: 01

Page: 70 of 395

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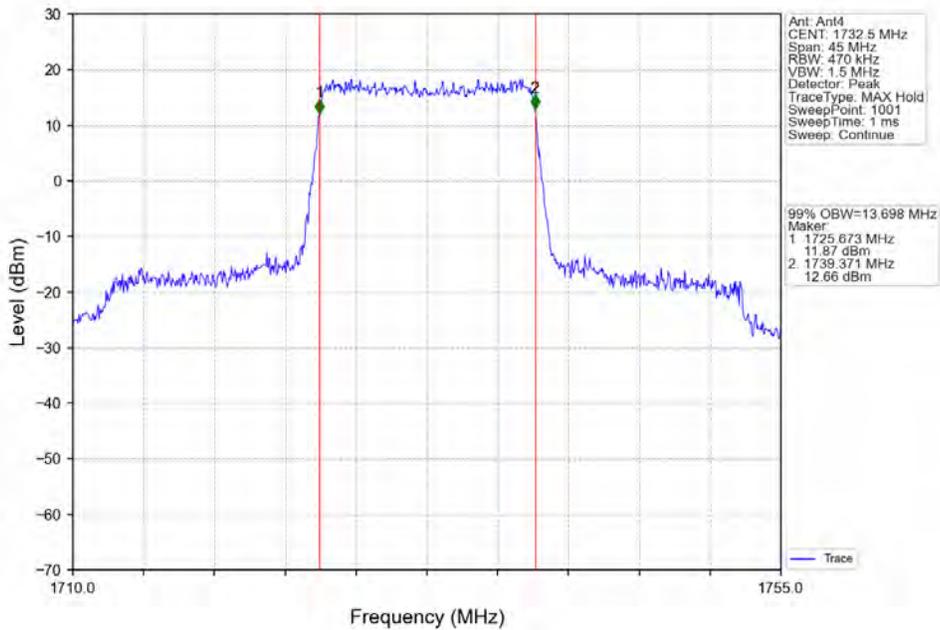
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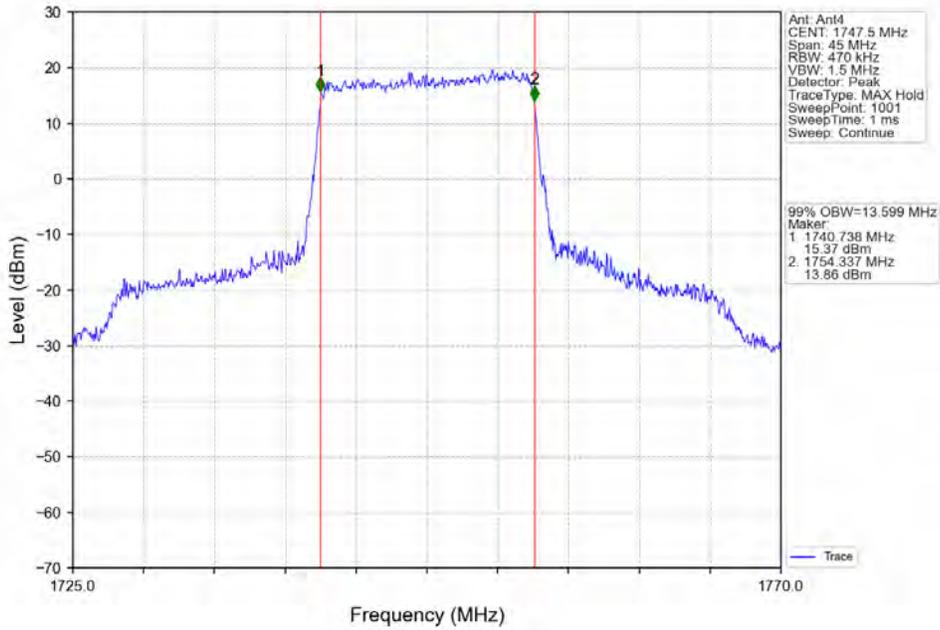


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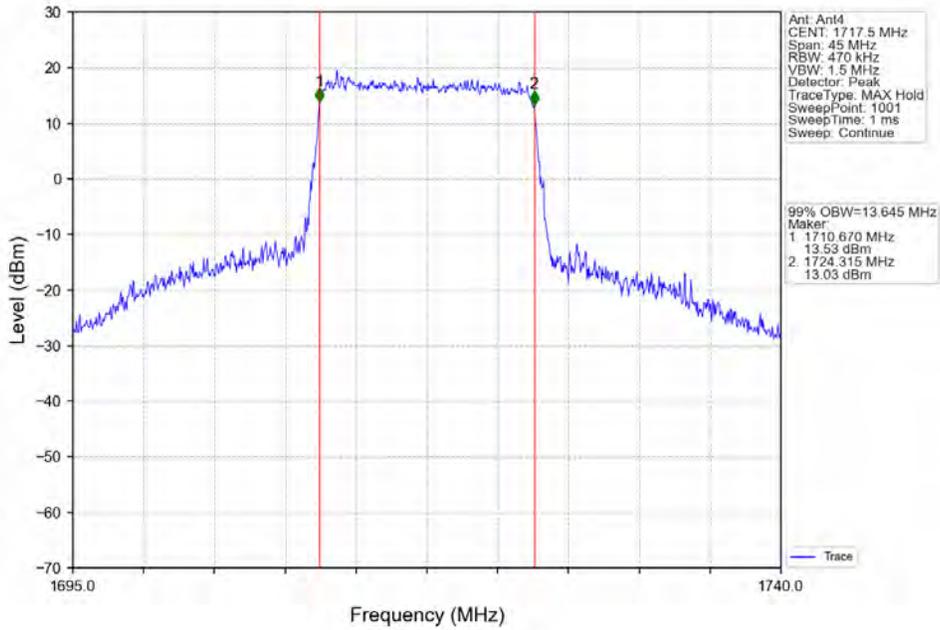


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Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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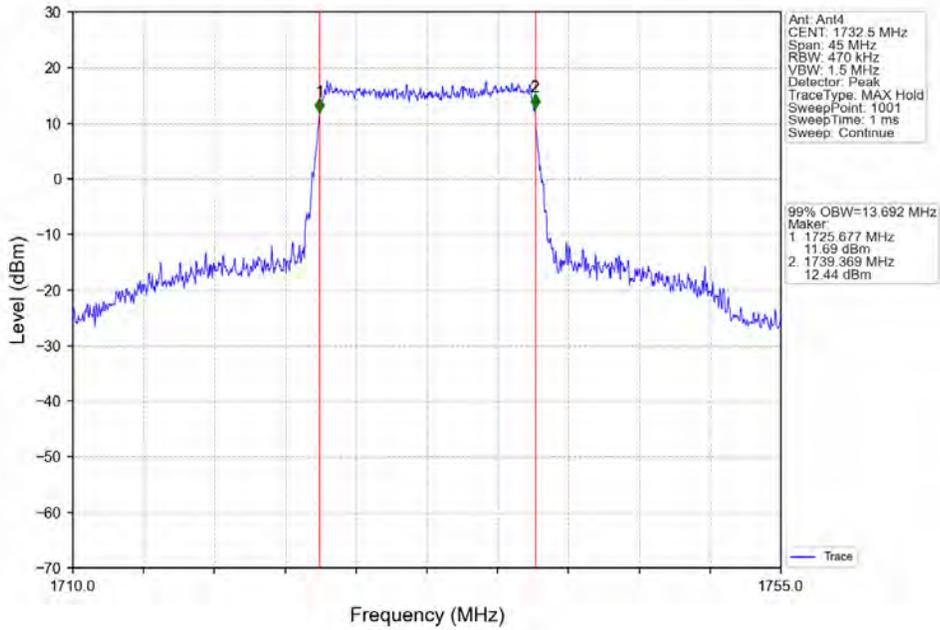
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 74 of 395

Band4 15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



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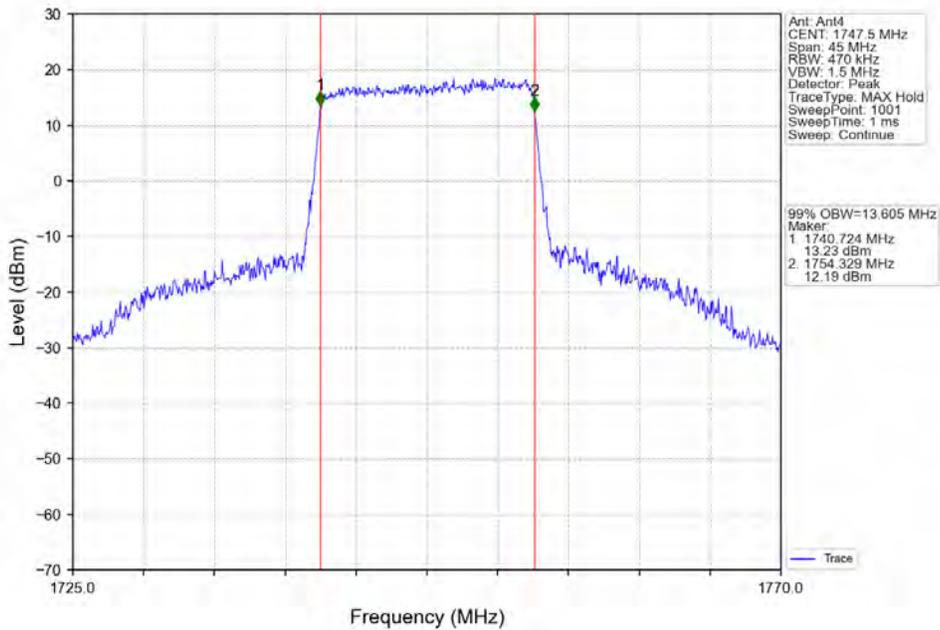
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 75 of 395

Band4 15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



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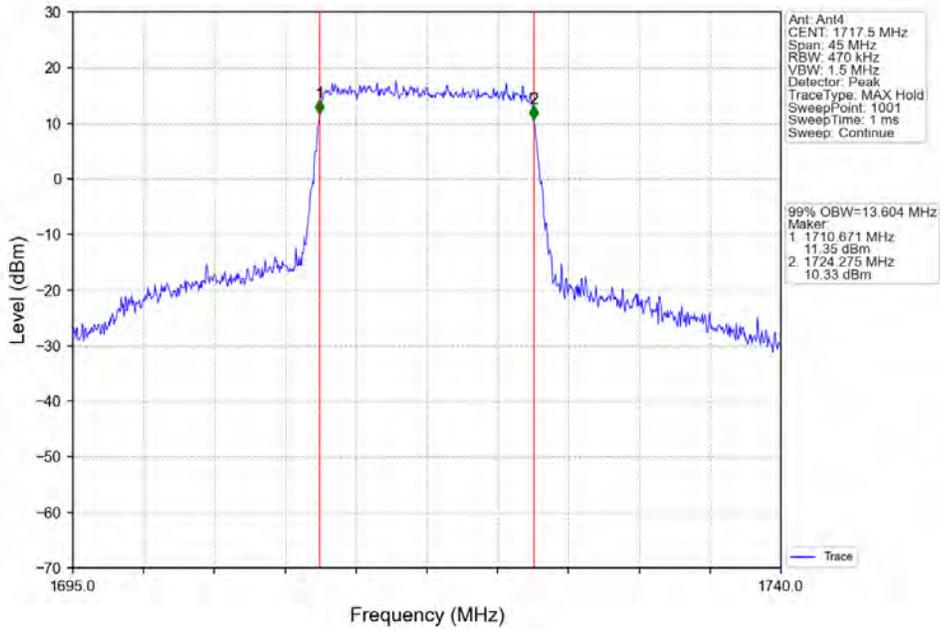
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 76 of 395

Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV

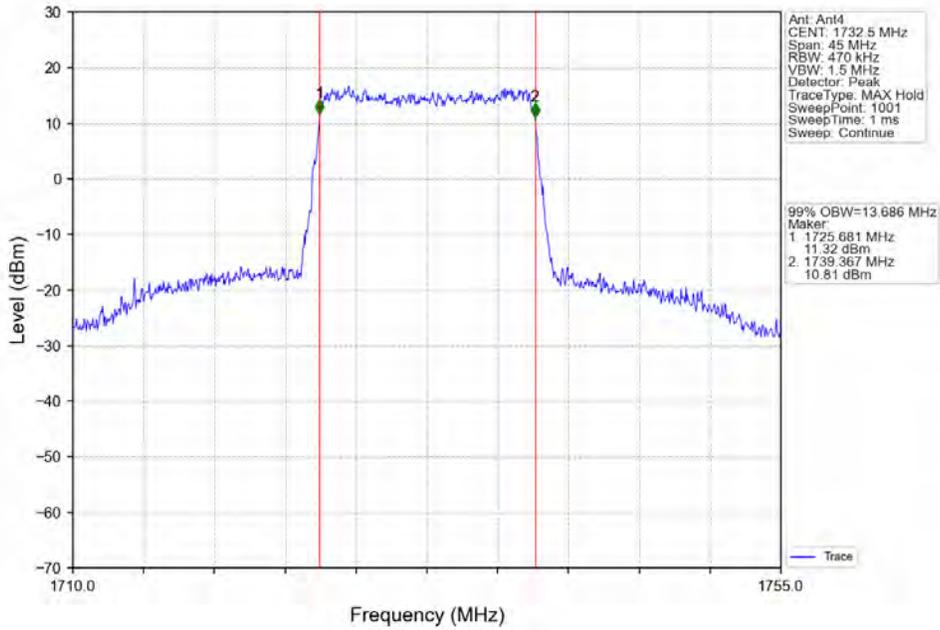


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Band4 15MHz_64QAM_MCH_1732.5MHz_RB_75_0_NTNV

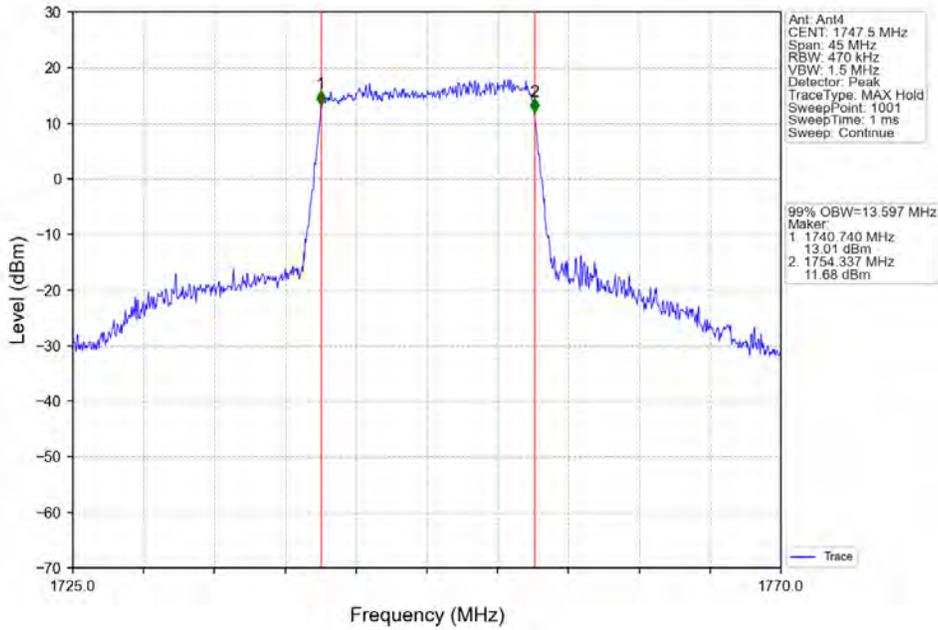


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Band4 15MHz_64QAM_HCH_1747.5MHz_RB_75_0_NTNV



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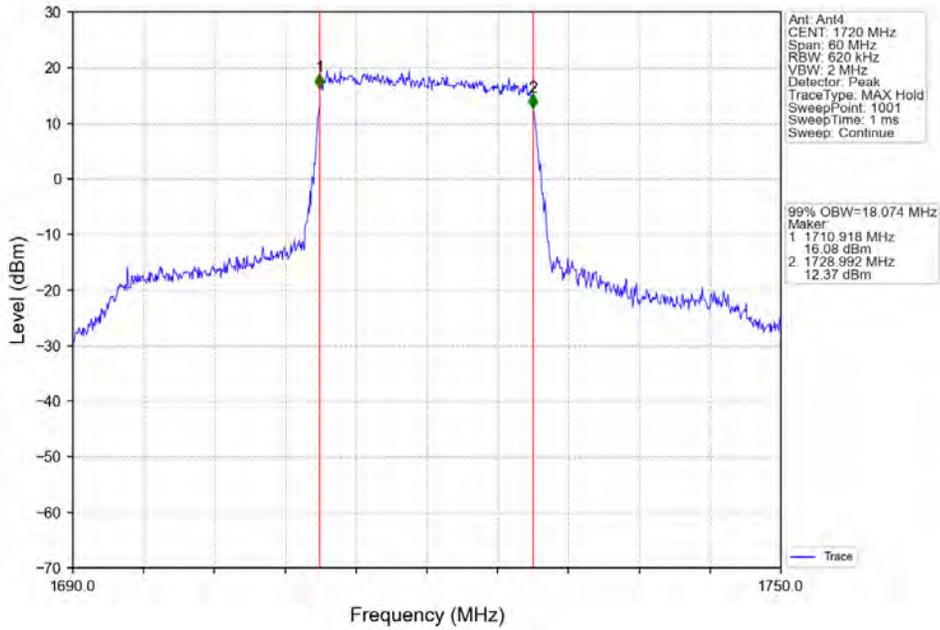
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 79 of 395

Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV

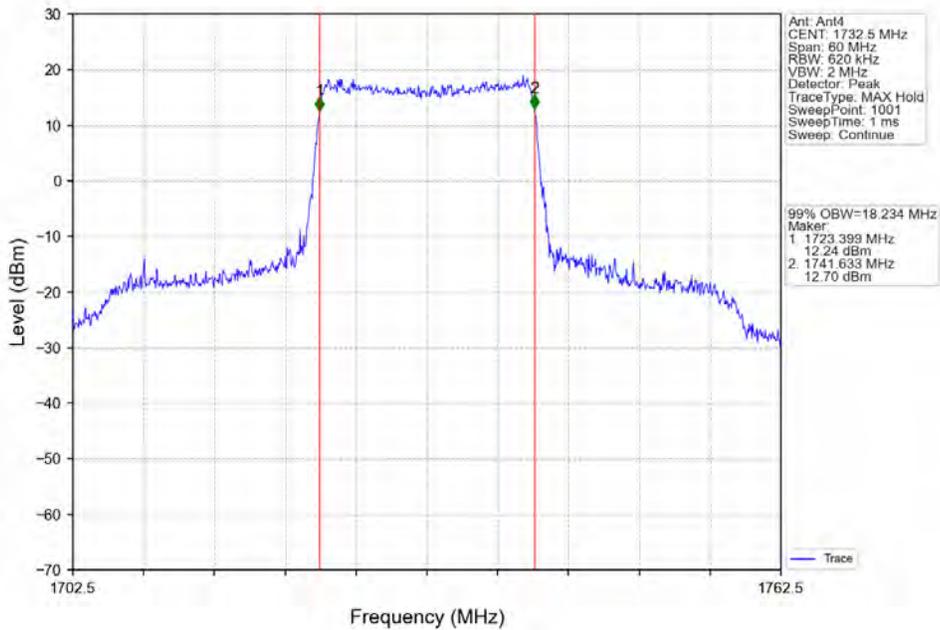


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Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV

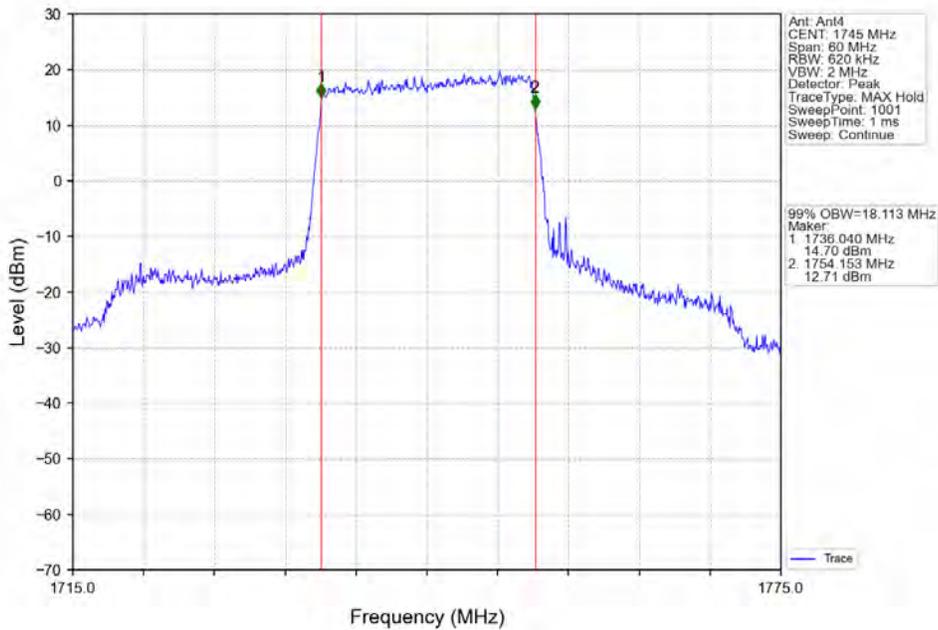


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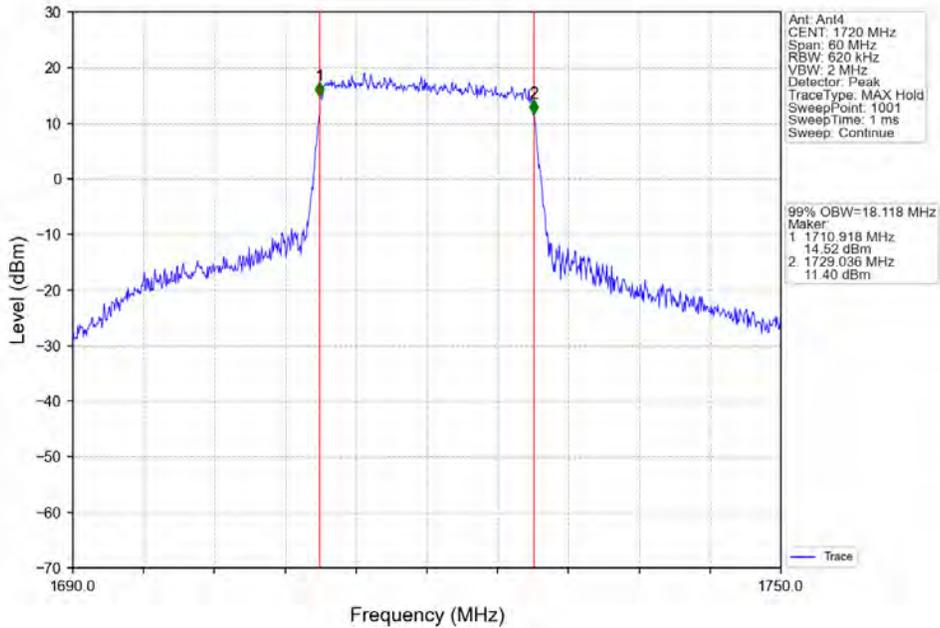


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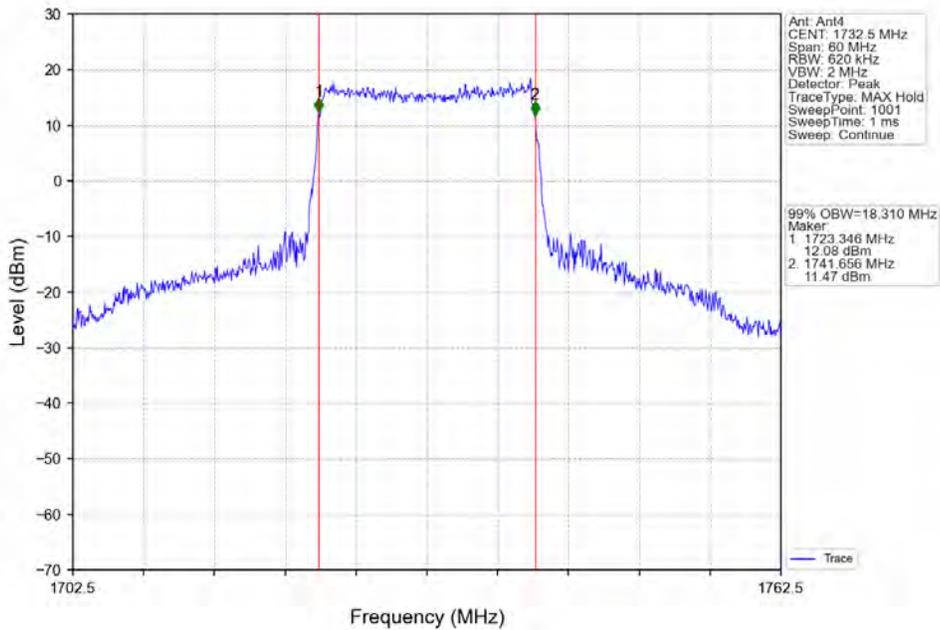
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 83 of 395

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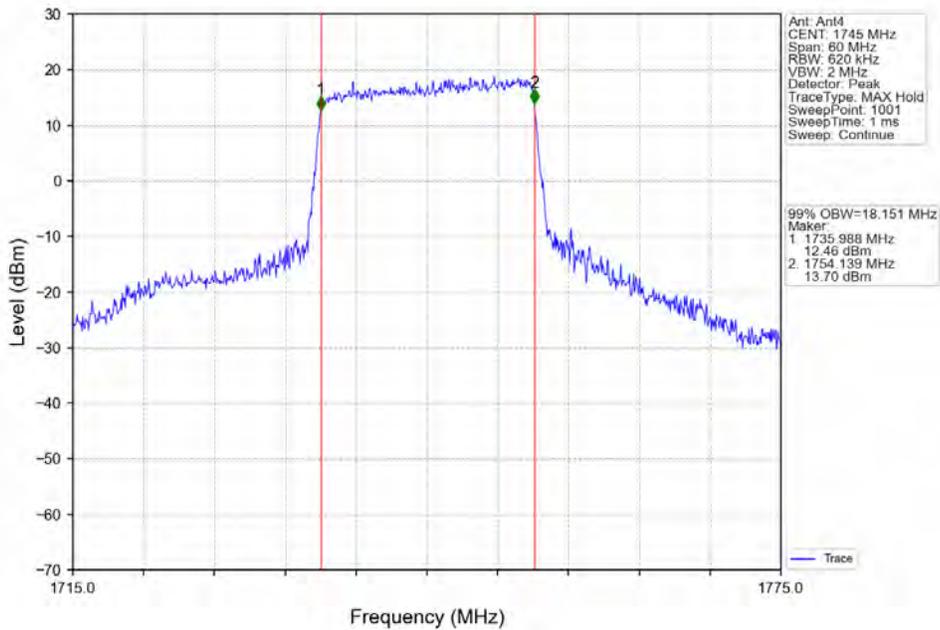
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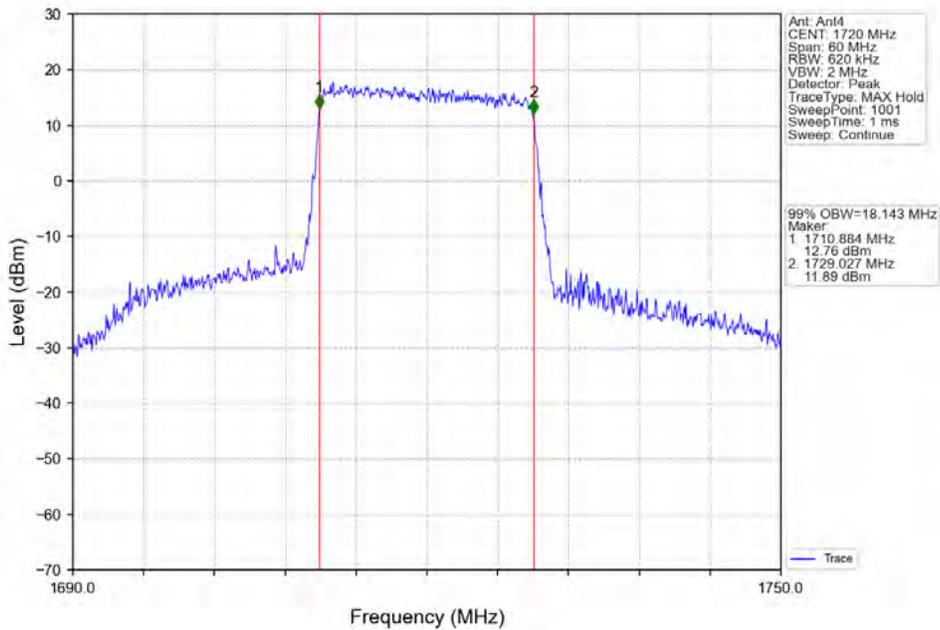


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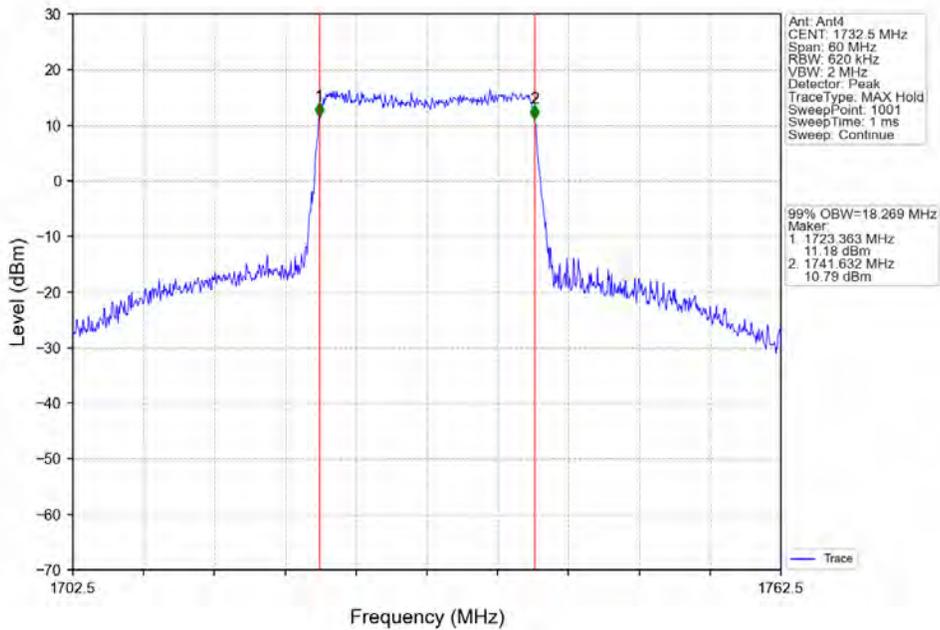


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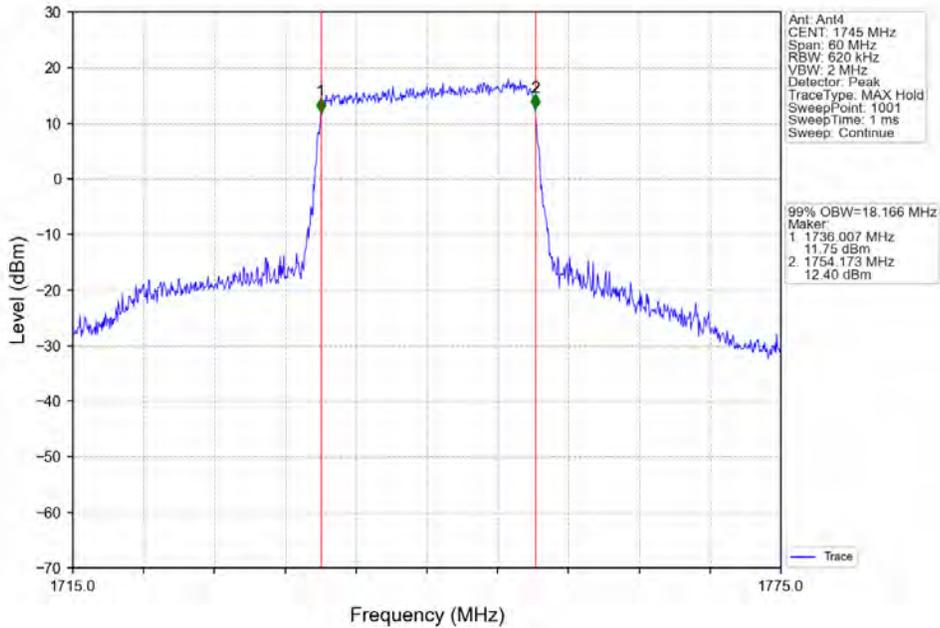


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3.2 Band4_XDB

3.2.1 Test Result

Band: 4 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.422	/	Pass
		1732.5	6	0	1.409	/	Pass
		1754.3	6	0	1.427	/	Pass
	16QAM	1710.7	6	0	1.395	/	Pass
		1732.5	6	0	1.393	/	Pass
		1754.3	6	0	1.421	/	Pass
	64QAM	1710.7	6	0	1.402	/	Pass
		1732.5	6	0	1.436	/	Pass
		1754.3	6	0	1.381	/	Pass
3	QPSK	1711.5	15	0	3.137	/	Pass
		1732.5	15	0	3.110	/	Pass
		1753.5	15	0	3.131	/	Pass
	16QAM	1711.5	15	0	3.150	/	Pass
		1732.5	15	0	3.160	/	Pass
		1753.5	15	0	3.131	/	Pass
	64QAM	1711.5	15	0	3.101	/	Pass
		1732.5	15	0	3.158	/	Pass
		1753.5	15	0	3.119	/	Pass
5	QPSK	1712.5	25	0	5.259	/	Pass
		1732.5	25	0	5.289	/	Pass
		1752.5	25	0	5.307	/	Pass
	16QAM	1712.5	25	0	5.283	/	Pass
		1732.5	25	0	5.320	/	Pass
		1752.5	25	0	5.280	/	Pass
	64QAM	1712.5	25	0	5.275	/	Pass
		1732.5	25	0	5.297	/	Pass
		1752.5	25	0	5.242	/	Pass
10	QPSK	1715	50	0	10.124	/	Pass
		1732.5	50	0	10.314	/	Pass
		1750	50	0	10.227	/	Pass
	16QAM	1715	50	0	10.123	/	Pass
		1732.5	50	0	10.281	/	Pass
		1750	50	0	10.171	/	Pass
	64QAM	1715	50	0	10.328	/	Pass
		1732.5	50	0	10.202	/	Pass
		1750	50	0	10.276	/	Pass
15	QPSK	1717.5	75	0	15.298	/	Pass
		1732.5	75	0	15.382	/	Pass
		1747.5	75	0	15.206	/	Pass
	16QAM	1717.5	75	0	14.966	/	Pass



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 89 of 395

	64QAM	1732.5	75	0	15.351	/	Pass
		1747.5	75	0	15.155	/	Pass
		1717.5	75	0	15.203	/	Pass
		1732.5	75	0	15.298	/	Pass
		1747.5	75	0	15.064	/	Pass
20	QPSK	1720	100	0	20.201	/	Pass
		1732.5	100	0	20.172	/	Pass
		1745	100	0	19.839	/	Pass
	16QAM	1720	100	0	20.054	/	Pass
		1732.5	100	0	20.042	/	Pass
		1745	100	0	20.119	/	Pass
	64QAM	1720	100	0	20.044	/	Pass
		1732.5	100	0	20.196	/	Pass
		1745	100	0	20.059	/	Pass

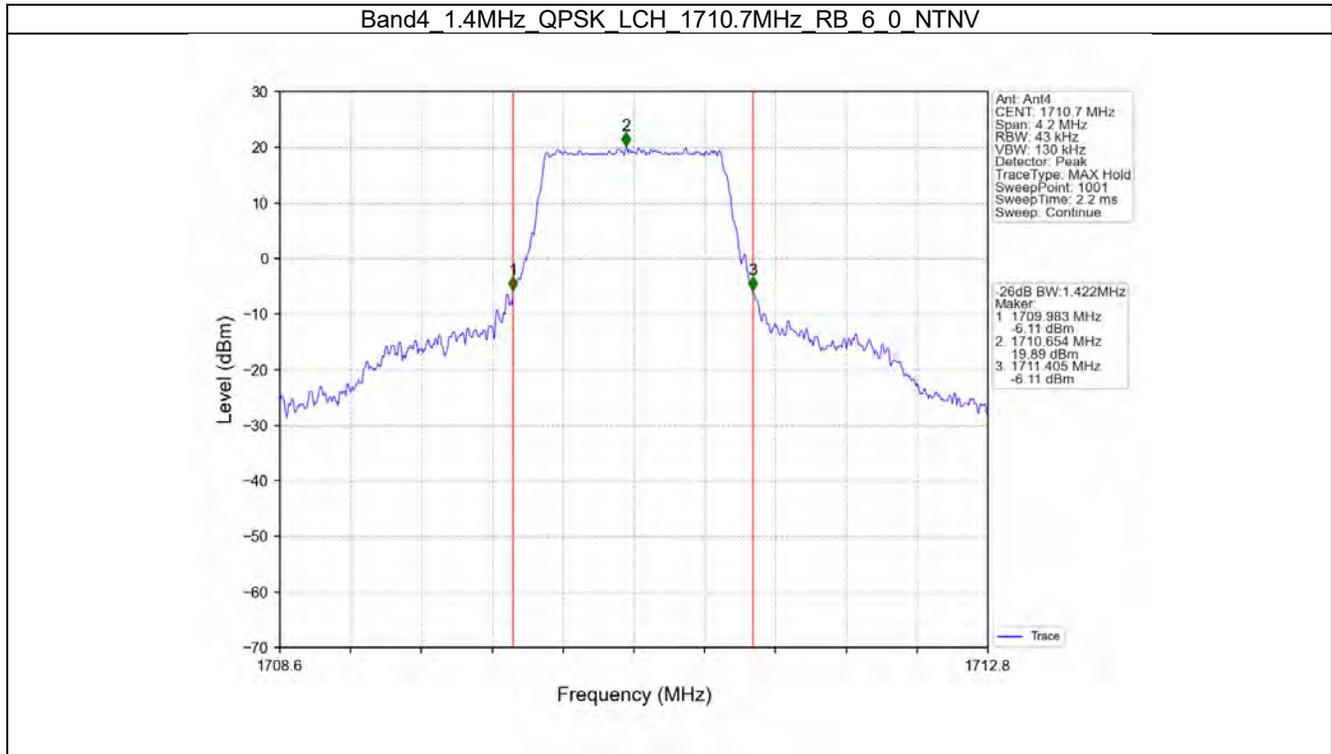


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3.2.2 Test Graph

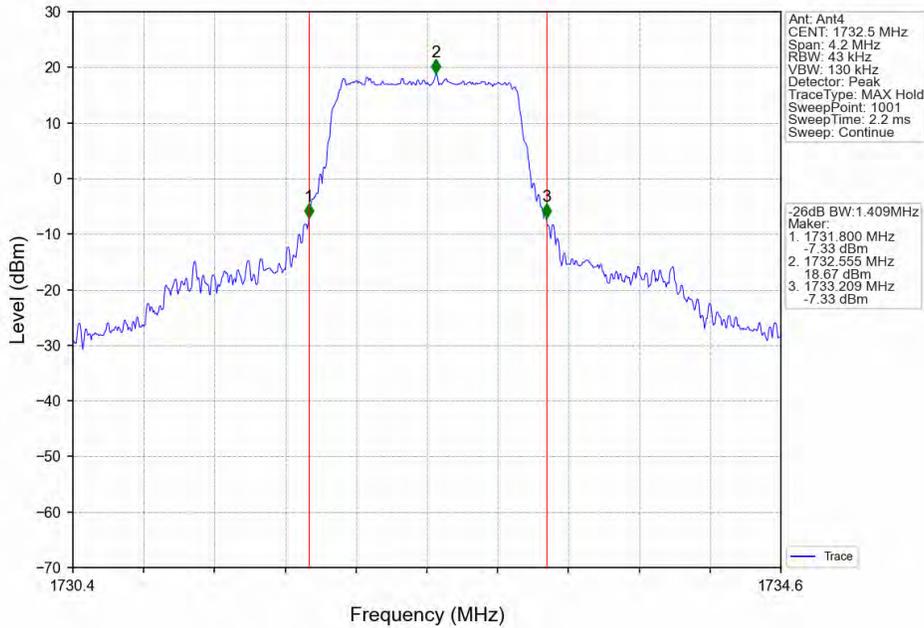


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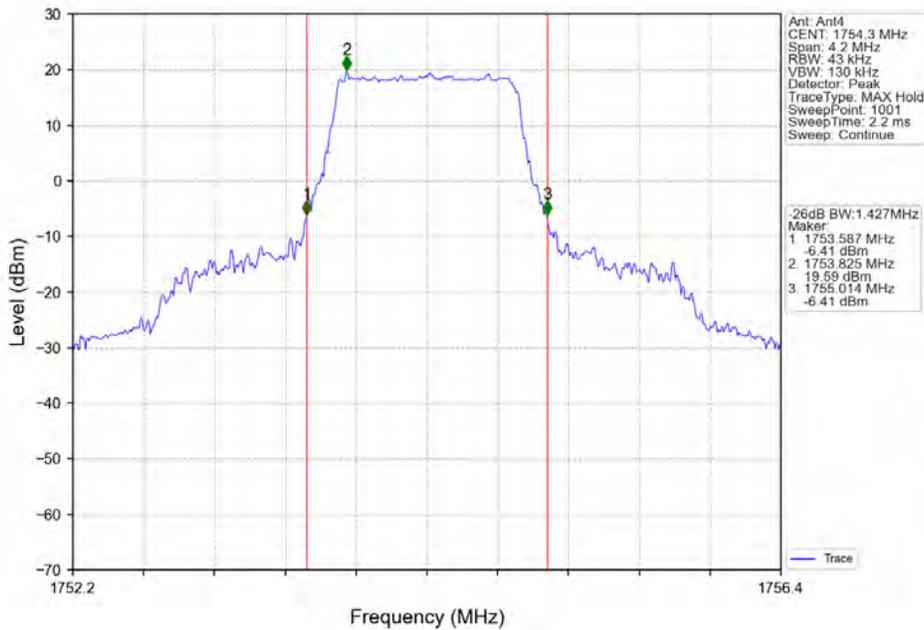


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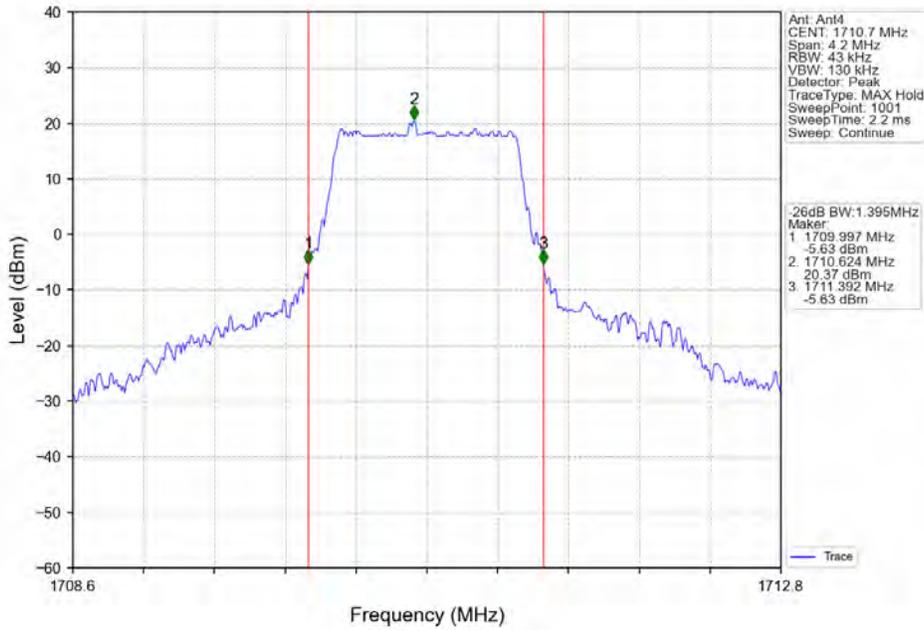


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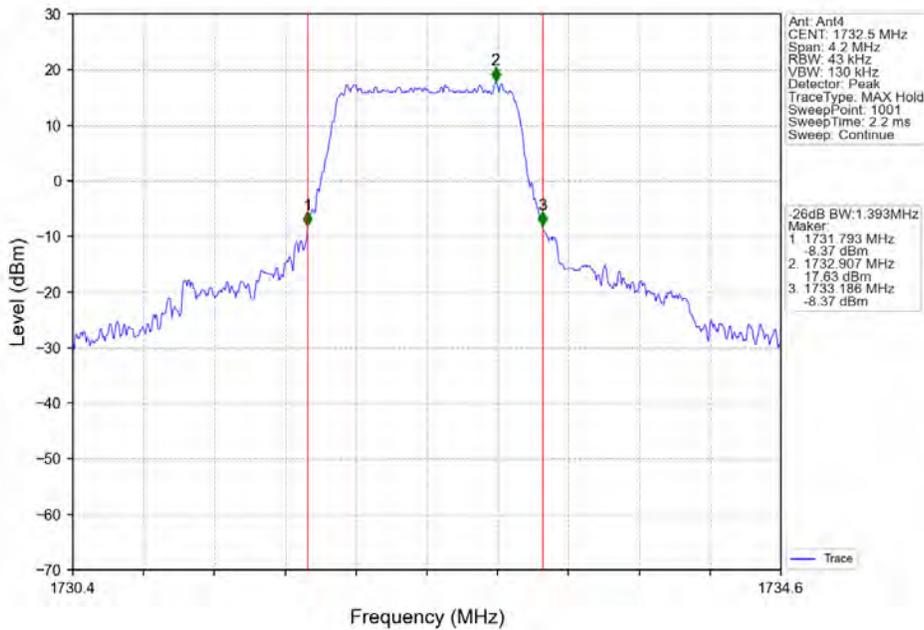
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Rev.: 01

Page: 94 of 395

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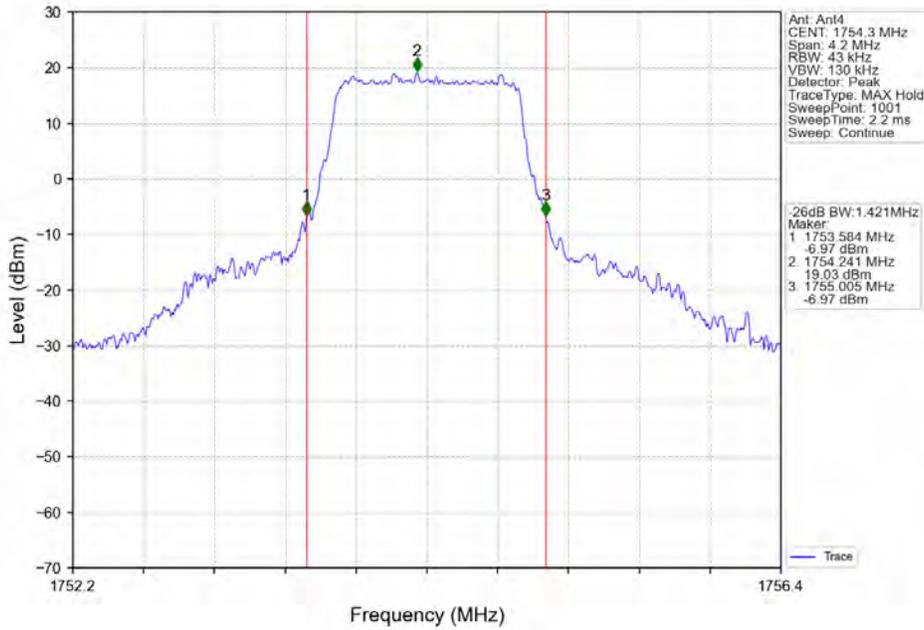
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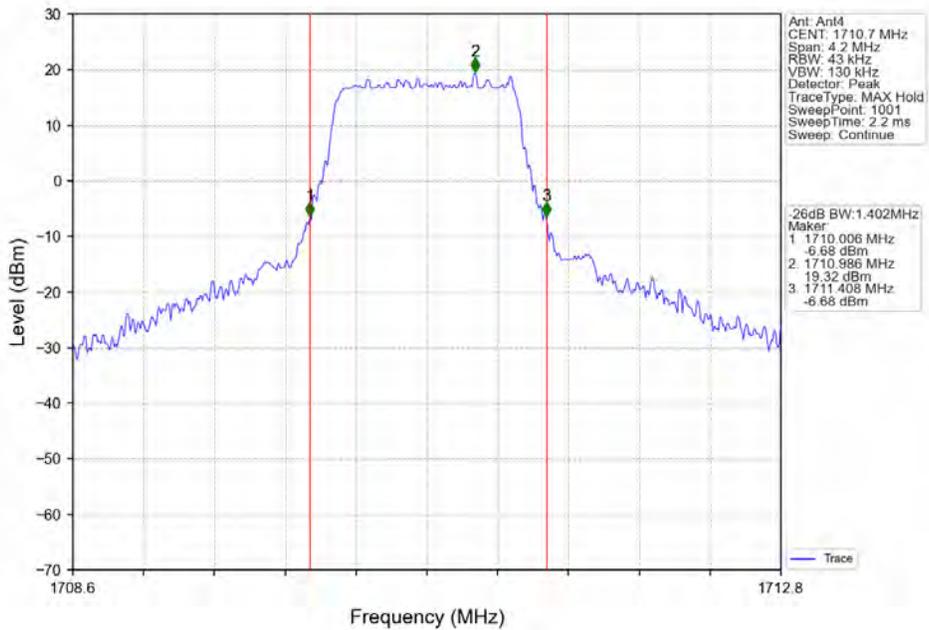


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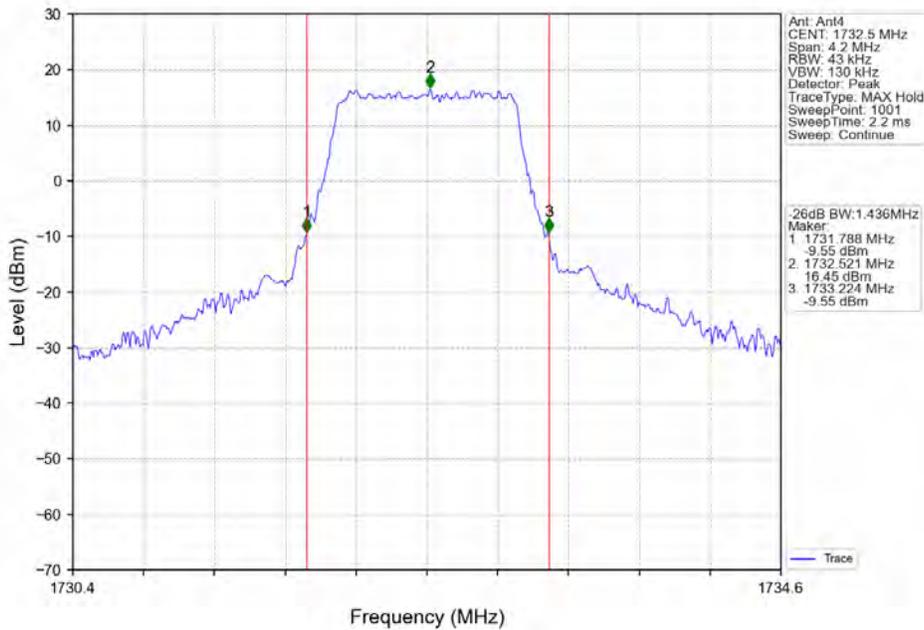


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Band4 1.4MHz 64QAM MCH_1732.5MHz_RB_6_0_NTNV

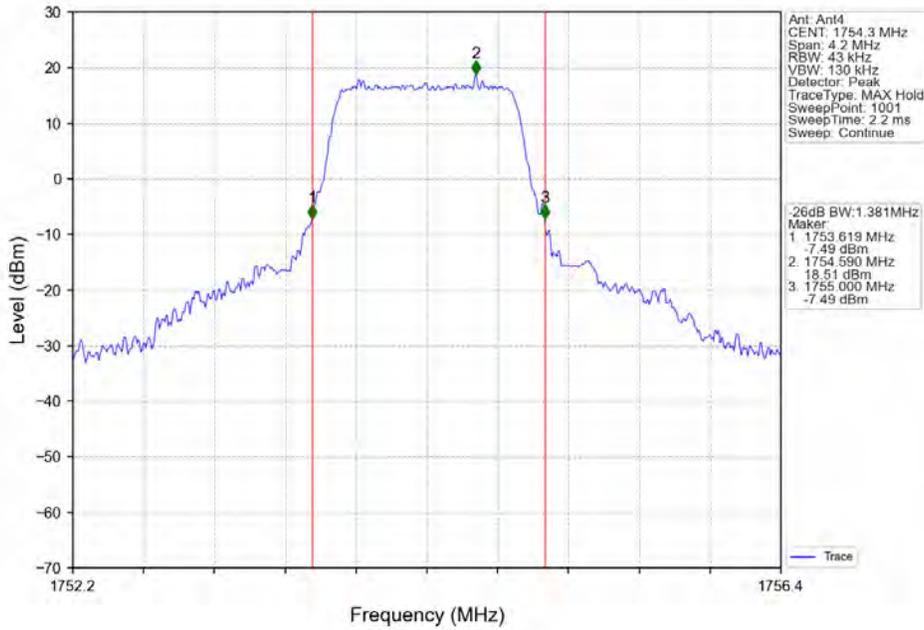


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Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV

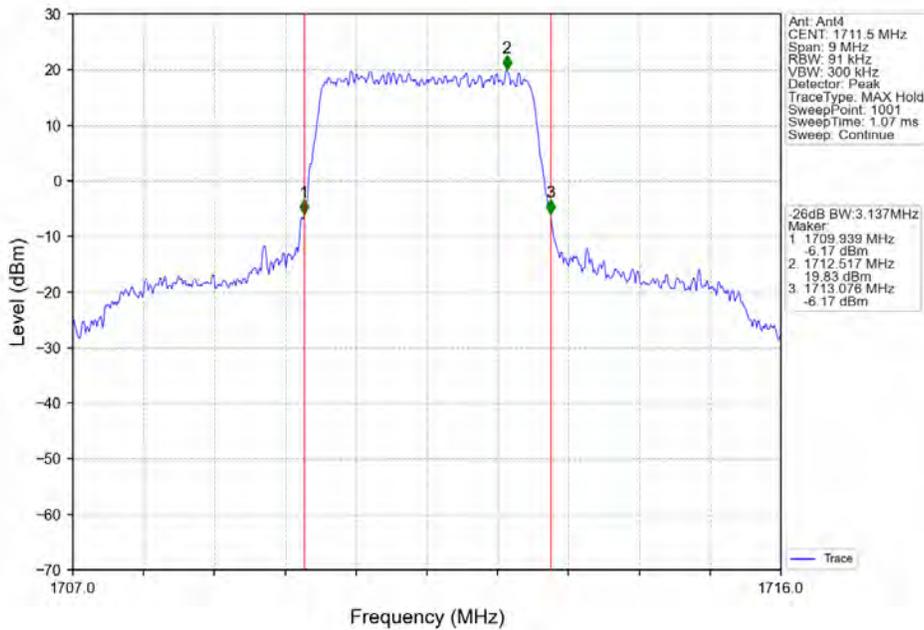


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Band4 3MHz_QPSK_LCH_1711.5MHz_RB_15_0_NTNV

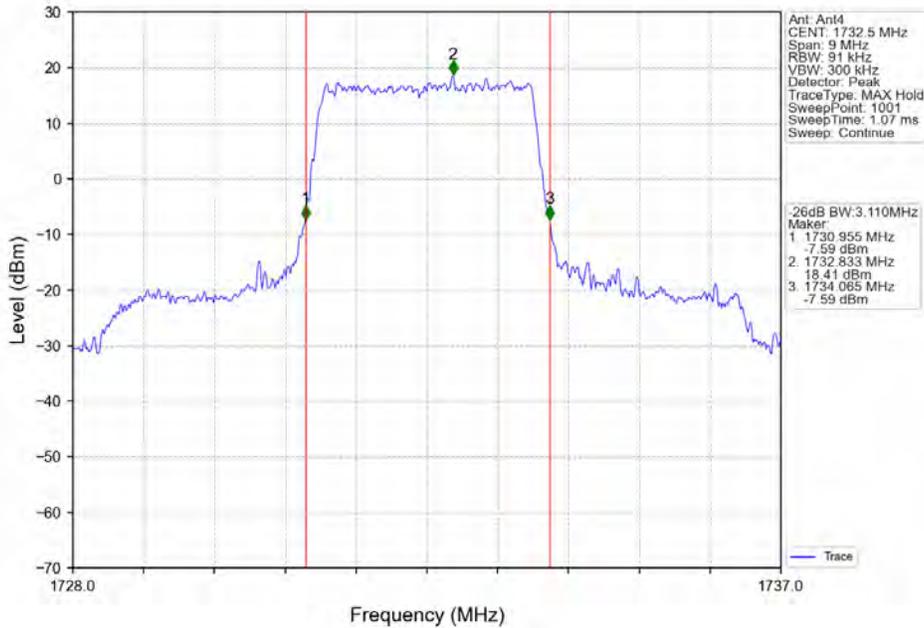


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Band4_3MHz_QPSK_MCH_1732.5MHz_RB_15_0_NTNV

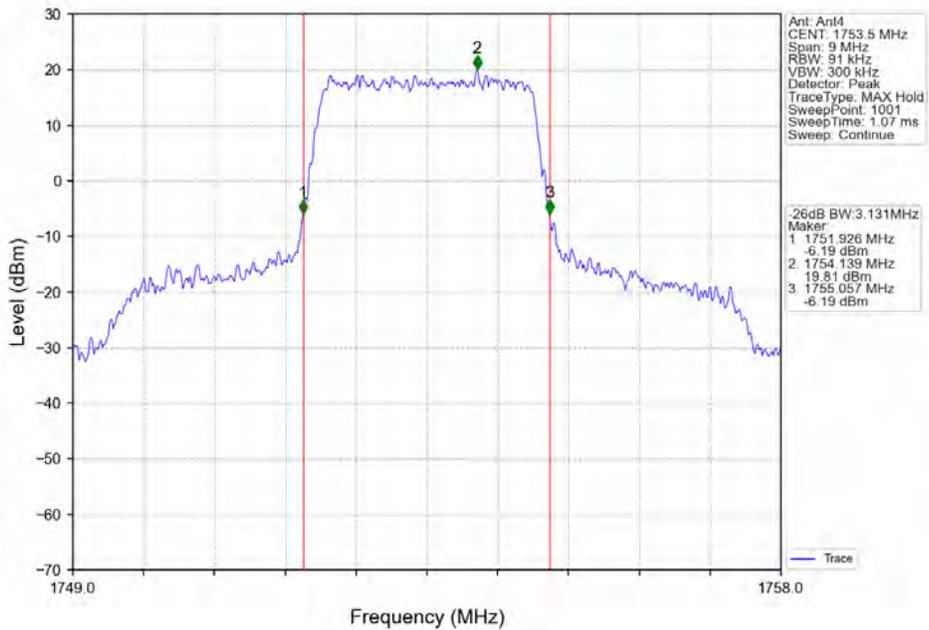


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Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV

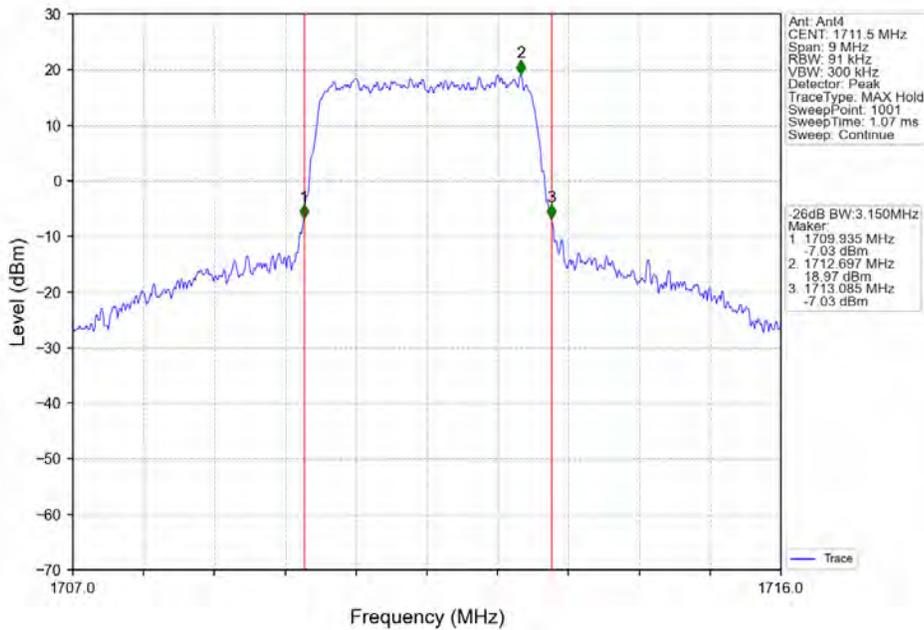


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Band4_3MHz_16QAM_LCH_1711.5MHz_RB_15_0_NTNV

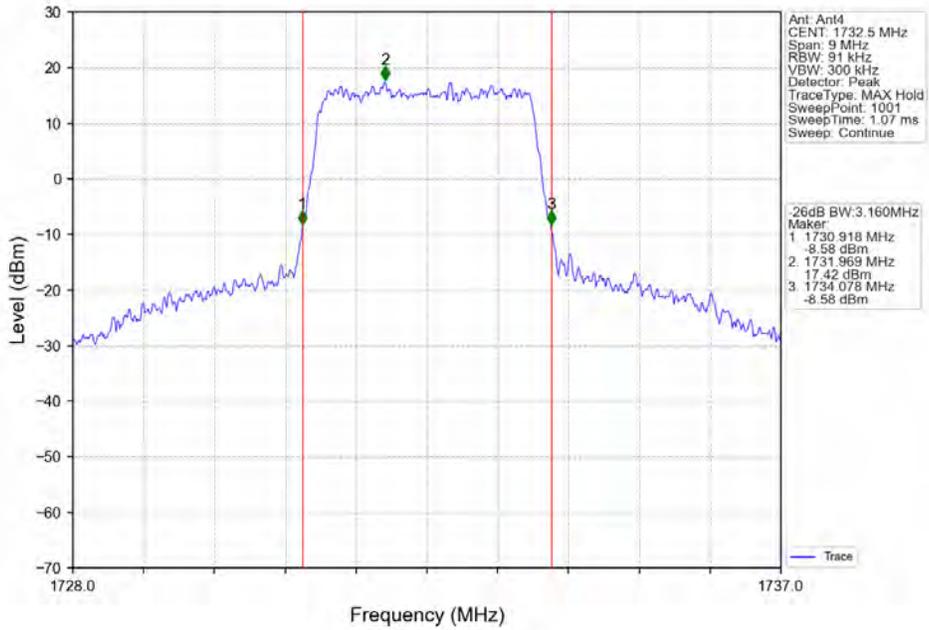


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Band4_3MHz_16QAM_MCH_1732.5MHz_RB_15_0_NTNV

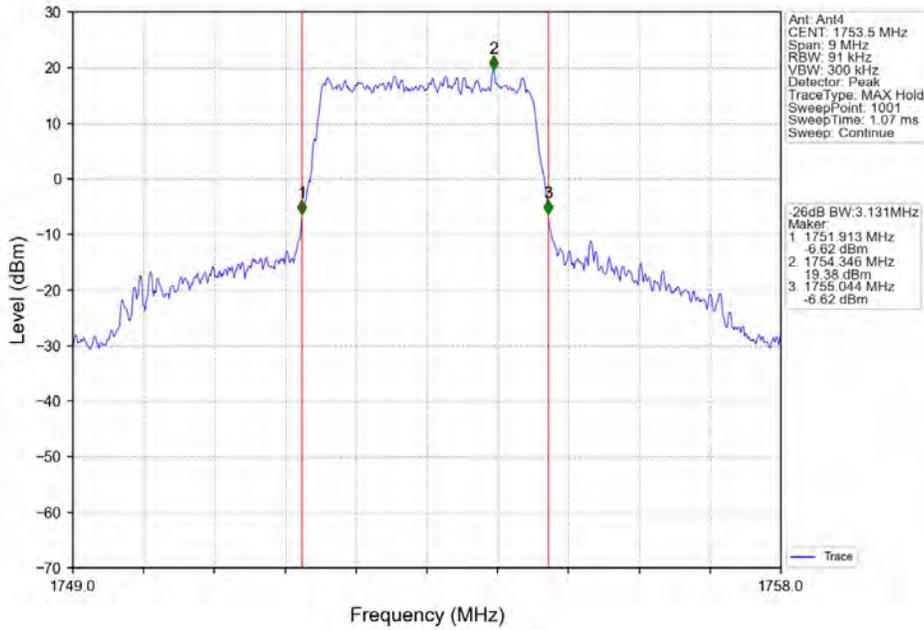


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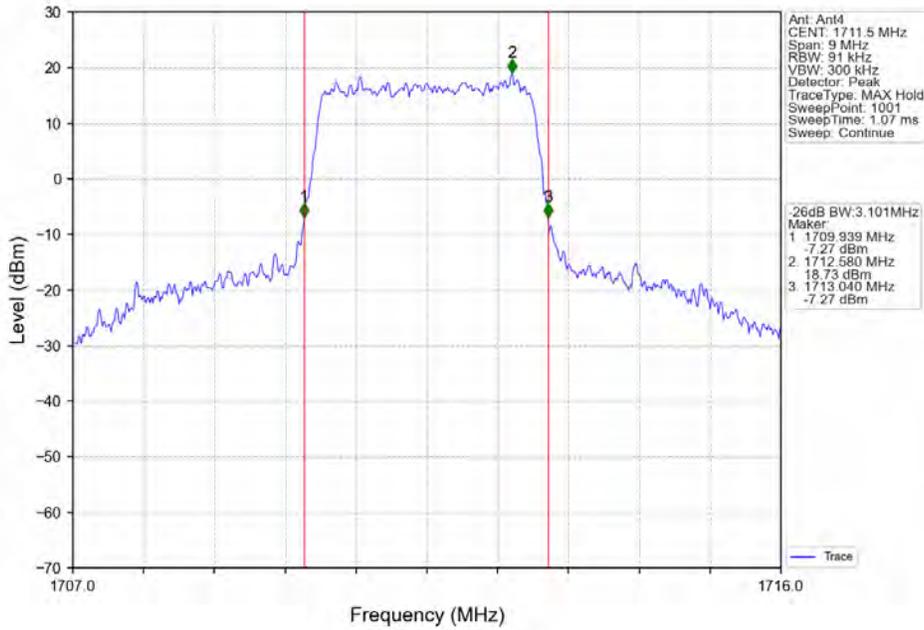


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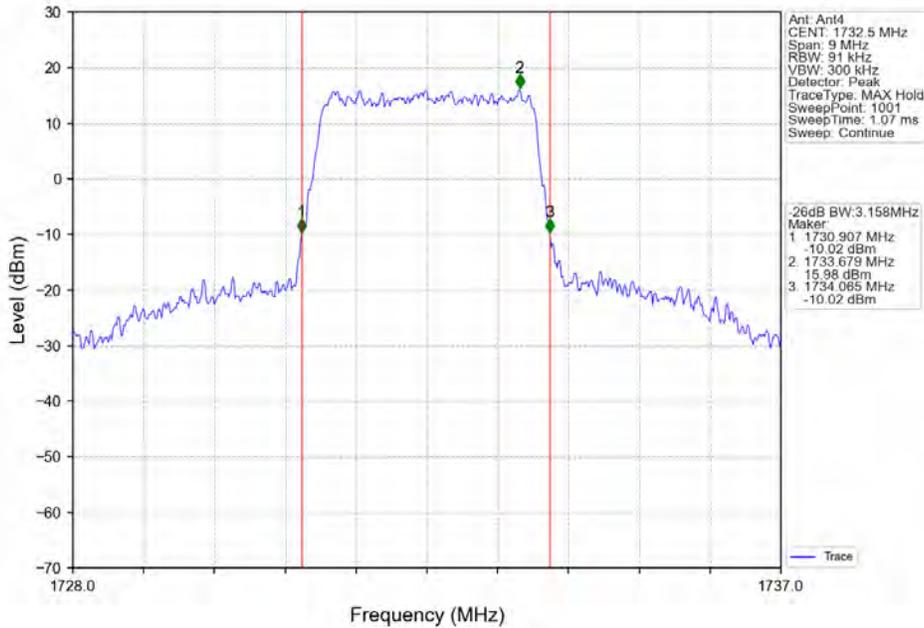


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Band4_3MHz_64QAM_MCH_1732.5MHz_RB_15_0_NTNV

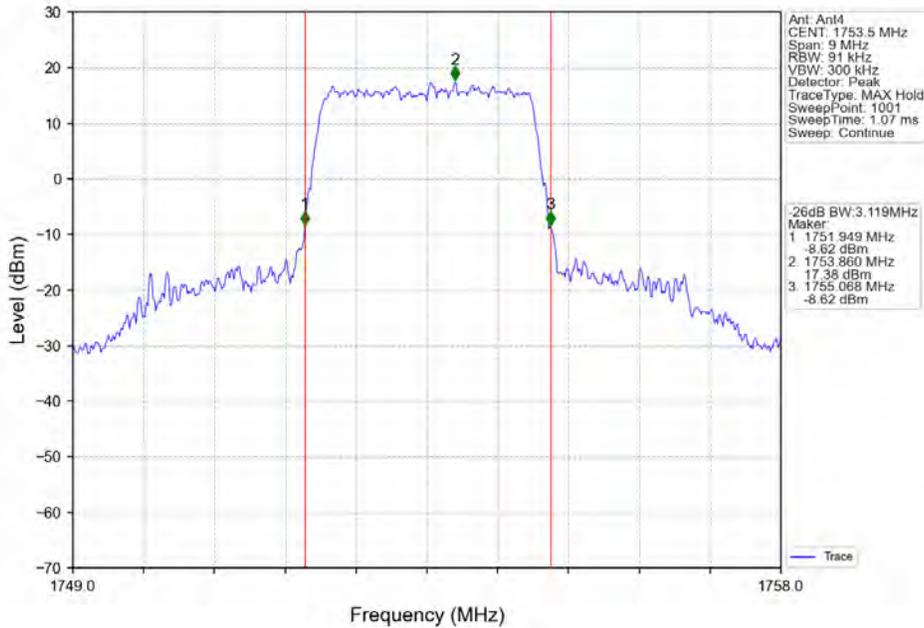


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Band4_3MHz_64QAM_HCH_1753.5MHz_RB_15_0_NTNV



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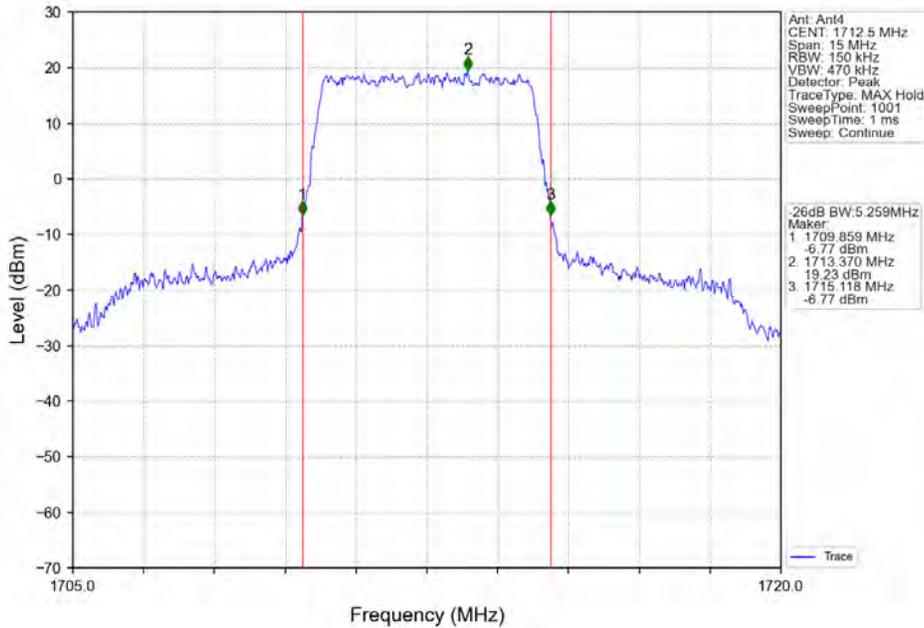
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 108 of 395

Band4 5MHz_QPSK_LCH_1712.5MHz_RB_25_0_NTNV



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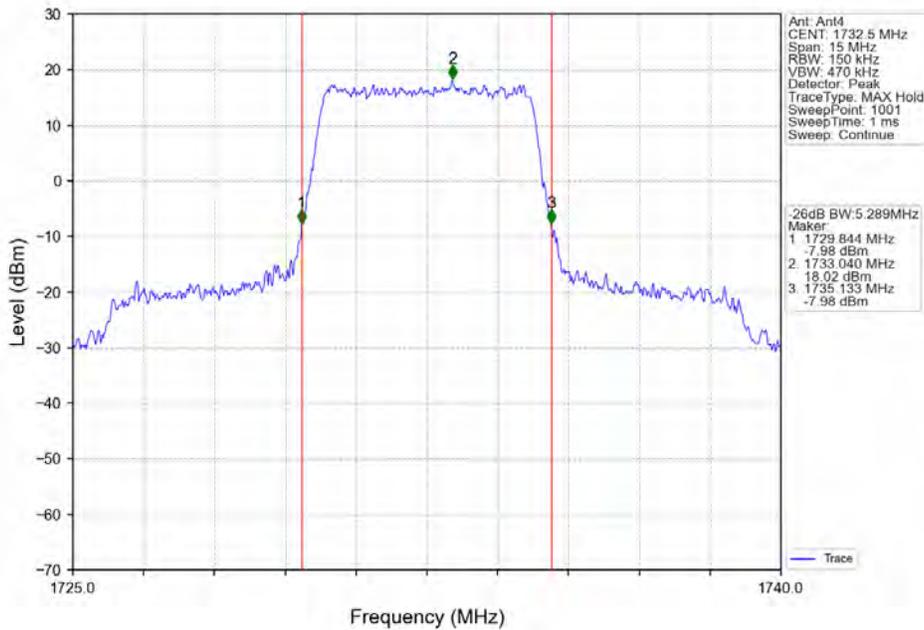
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 109 of 395

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV



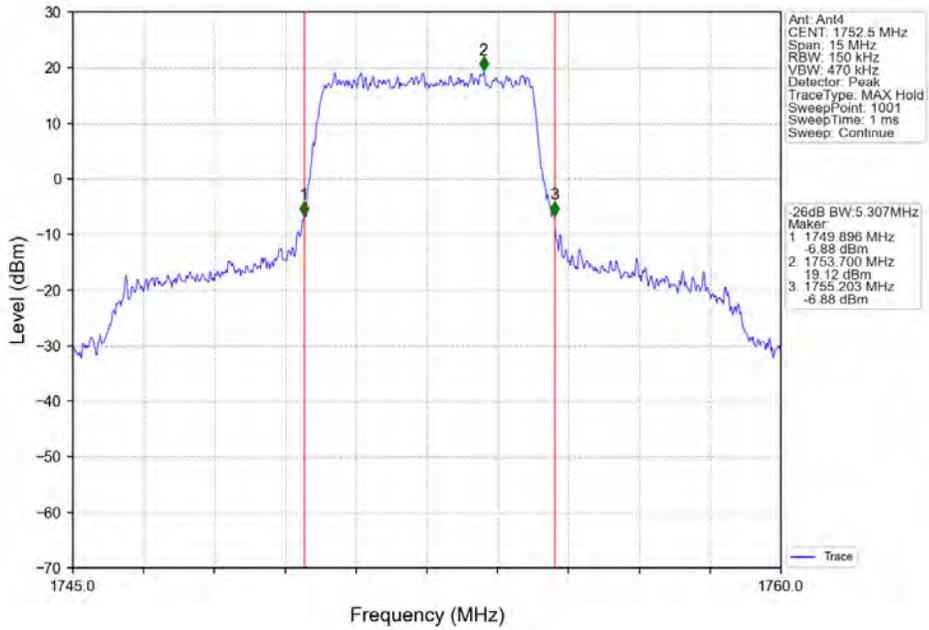
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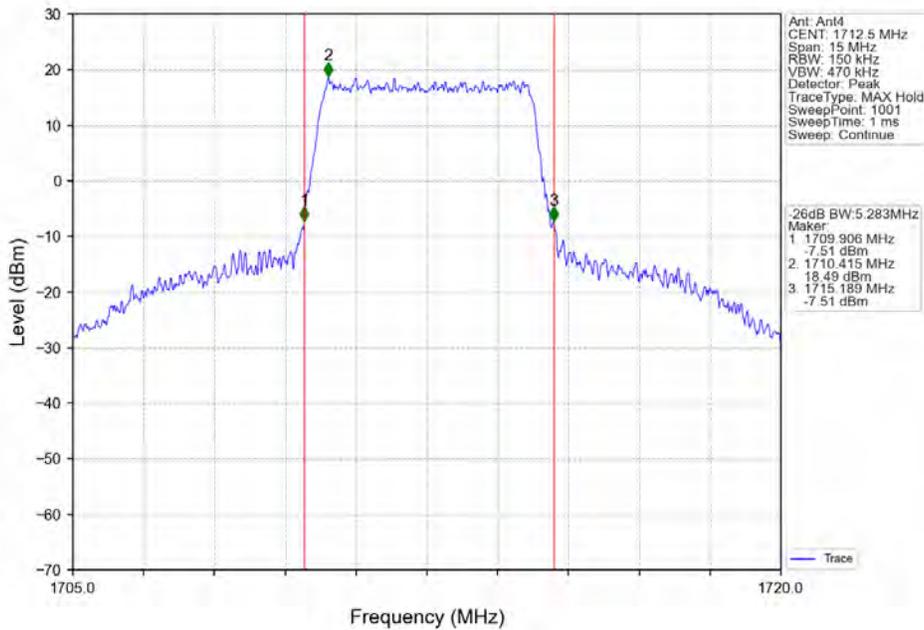
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 111 of 395

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



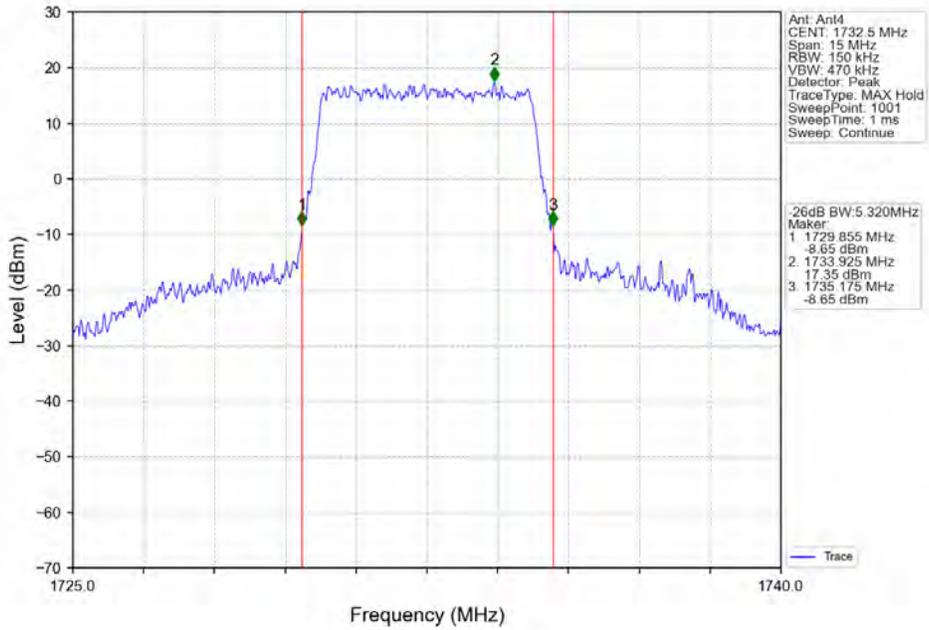
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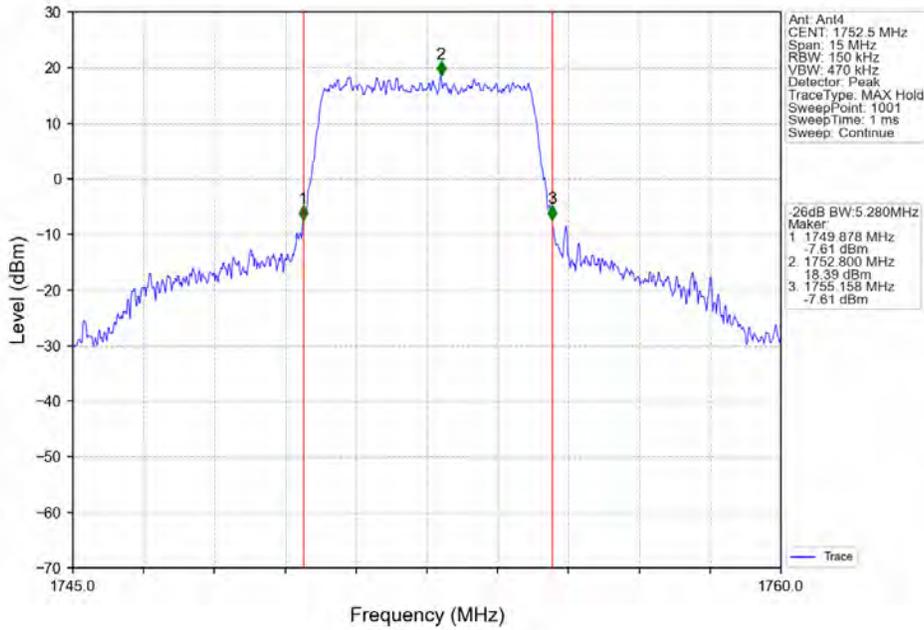


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Band4_5MHz_16QAM_HCH_1752.5MHz_RB_25_0_NTNV



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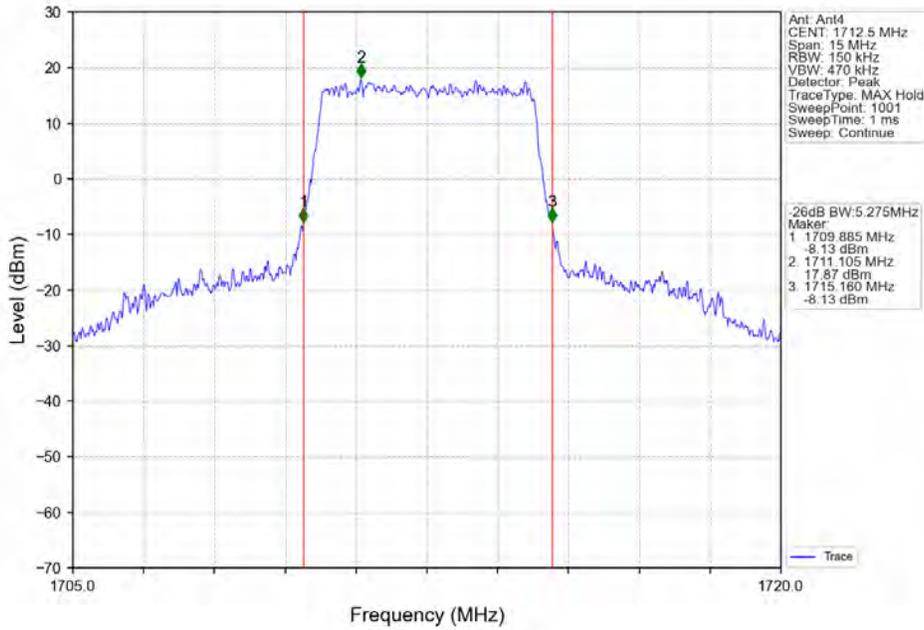
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 114 of 395

Band4_5MHz_64QAM_LCH_1712.5MHz_RB_25_0_NTNV



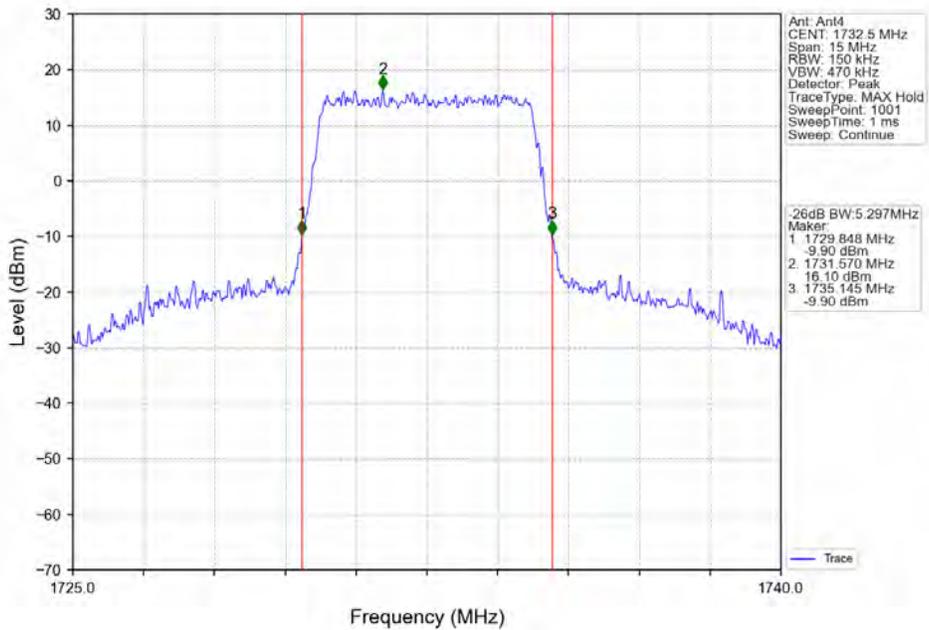
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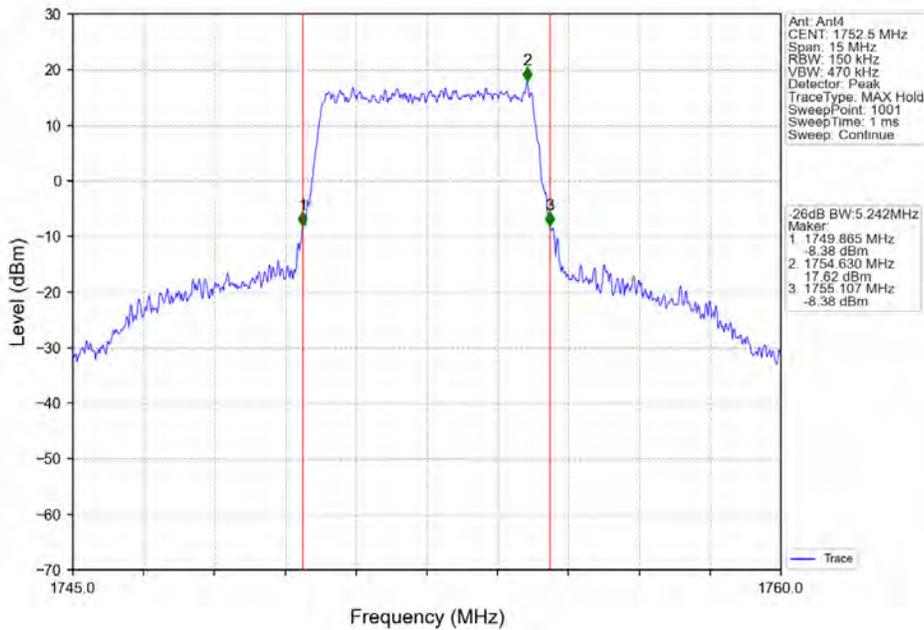


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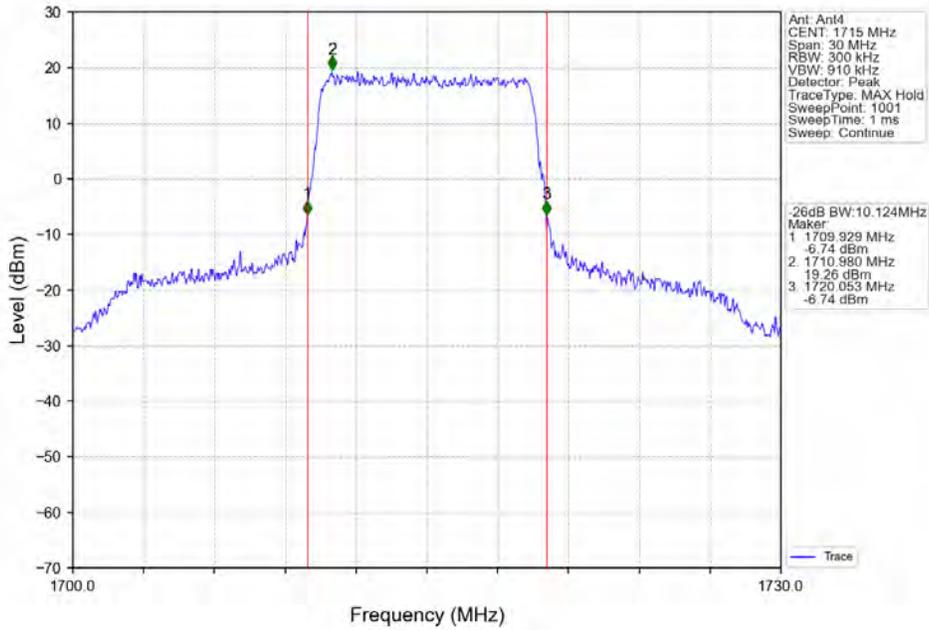
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 117 of 395

Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



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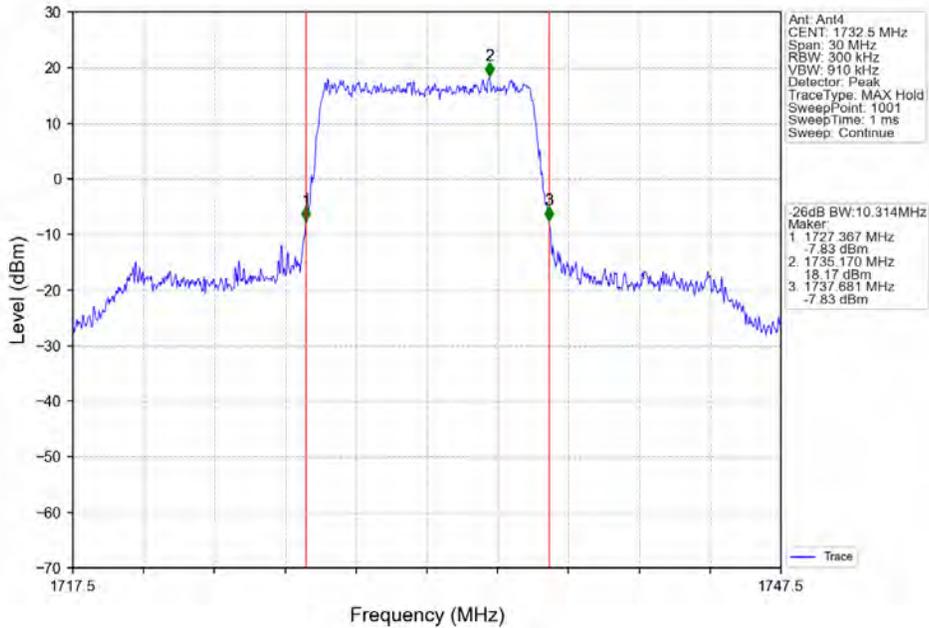
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 118 of 395

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



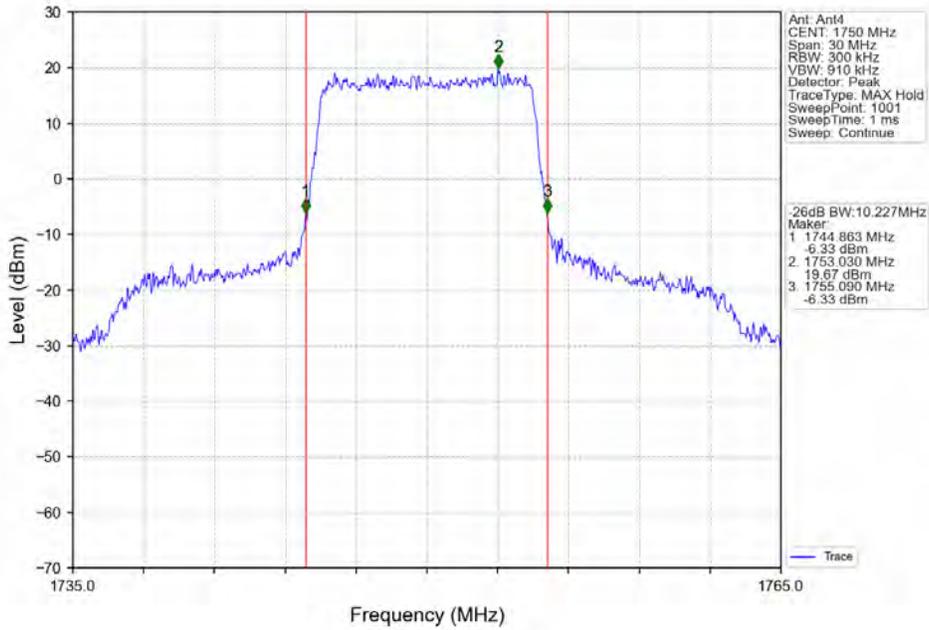
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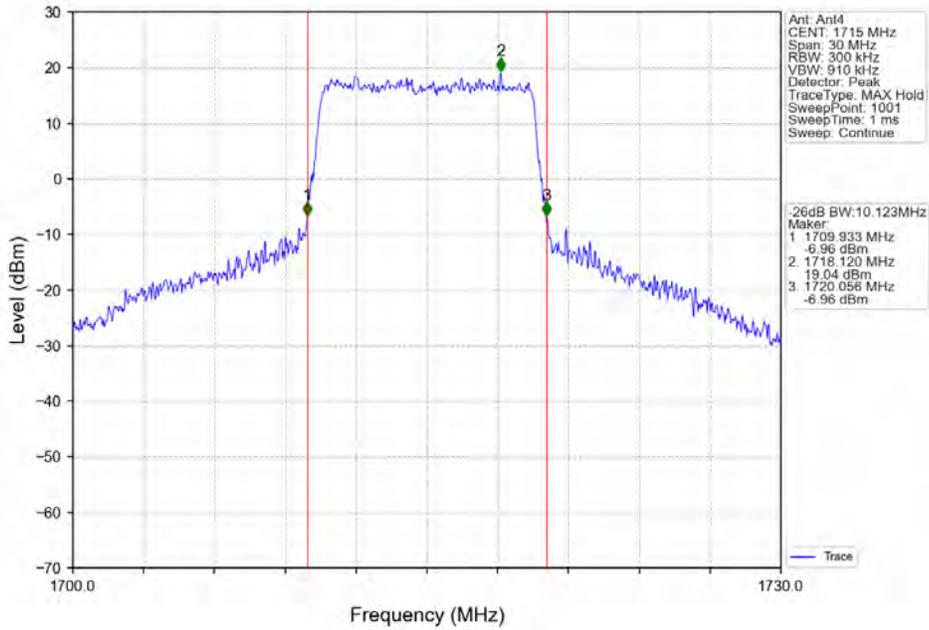


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Band4_10MHz_16QAM_LCH_1715MHz_RB_50_0_NTNV



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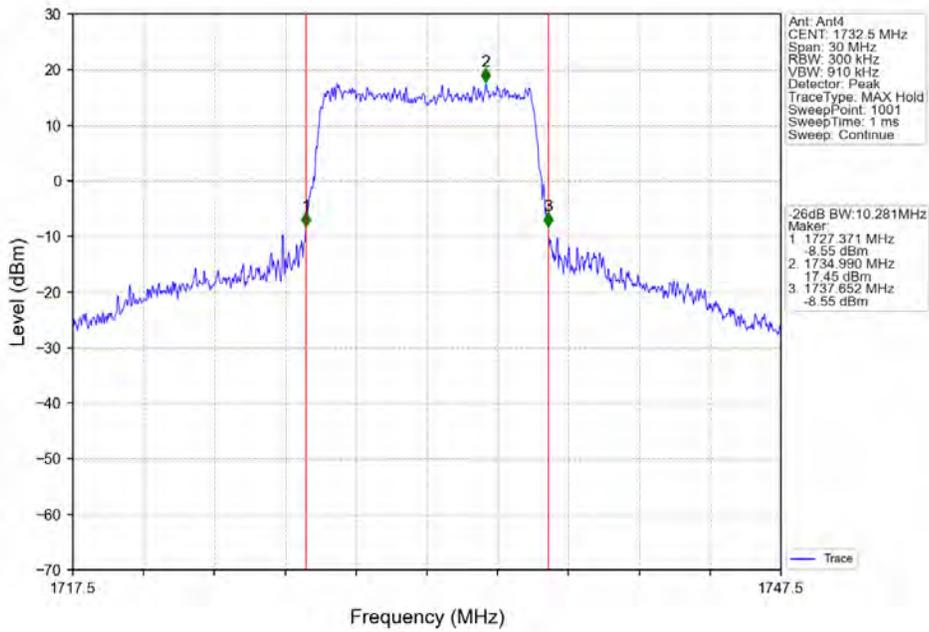
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 121 of 395

Band4 10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV

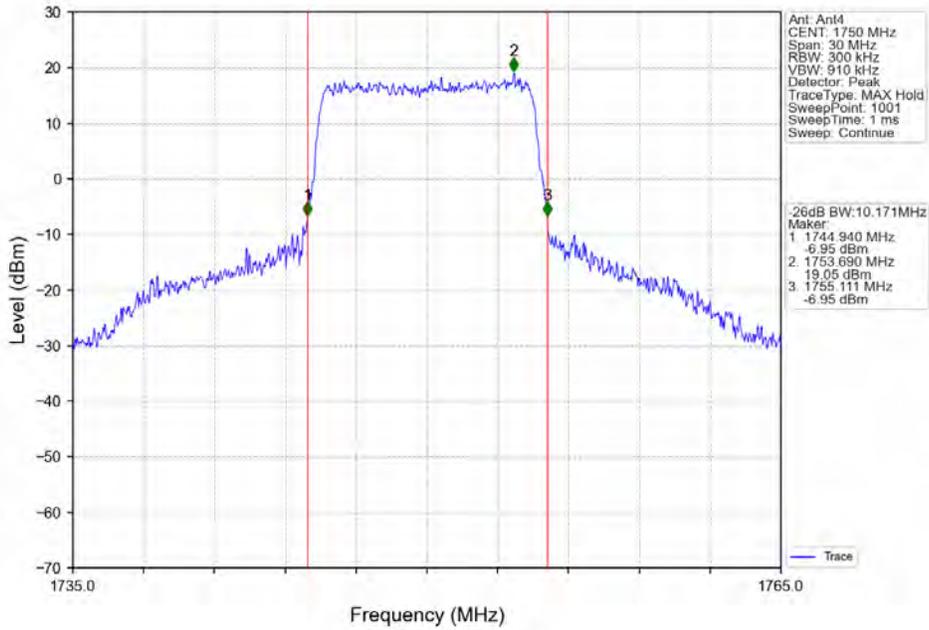


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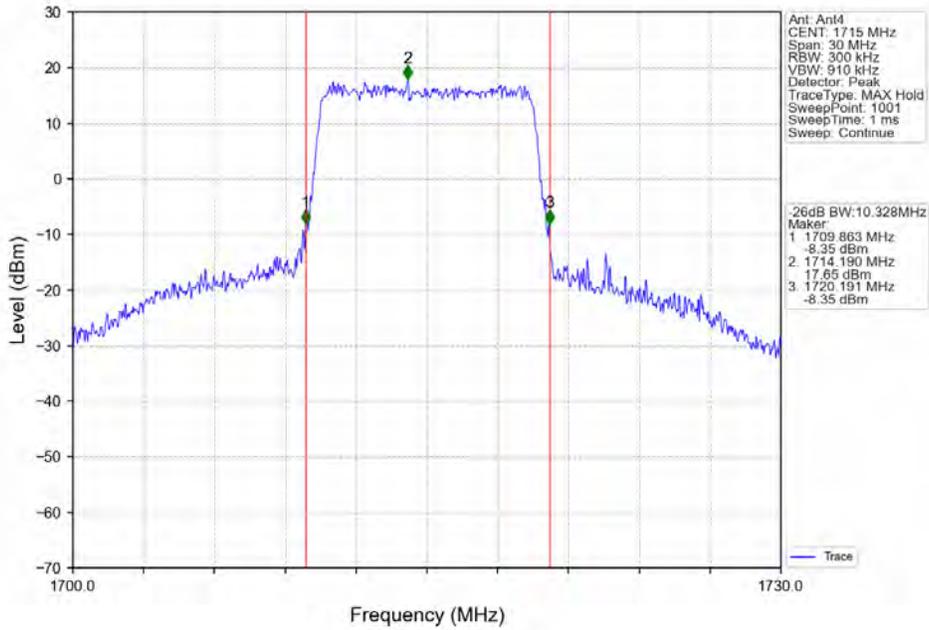


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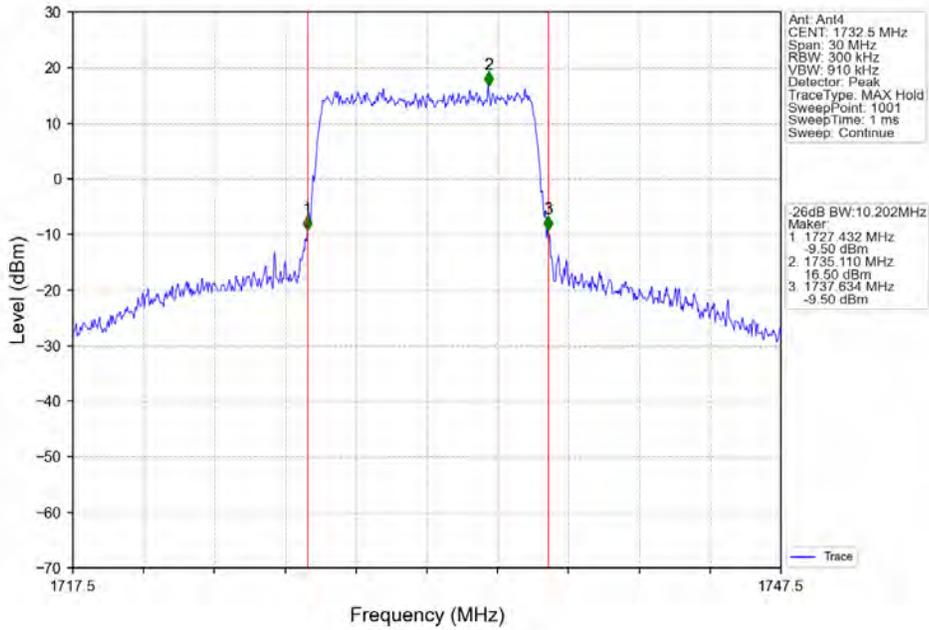
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 124 of 395

Band4 10MHz_64QAM_MCH_1732.5MHz_RB_50_0_NTNV

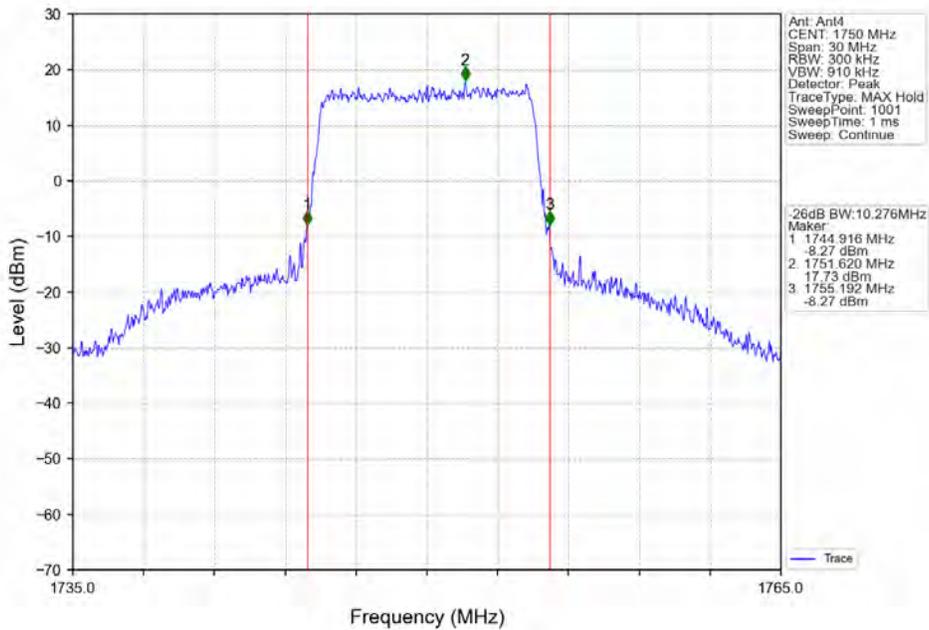


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Band4_10MHz_64QAM_HCH_1750MHz_RB_50_0_NTNV

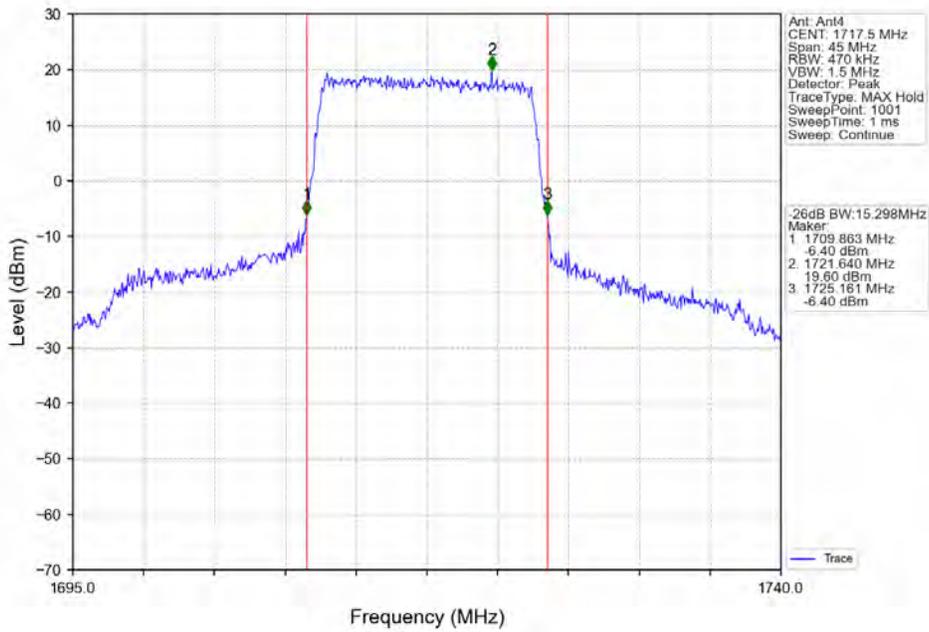


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Band4_15MHz_QPSK_LCH_1717.5MHz_RB_75_0_NTNV

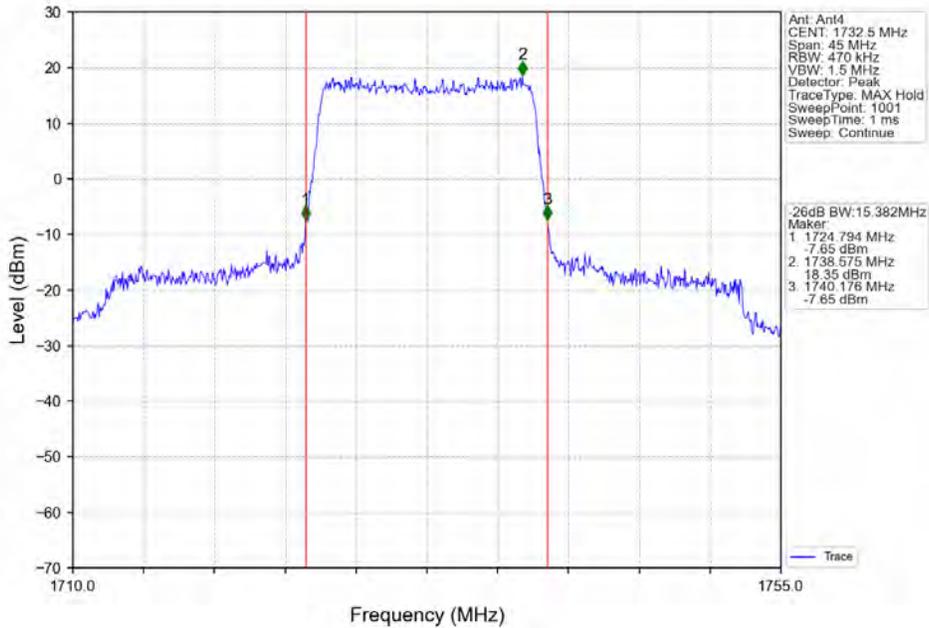


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Band4_15MHz_QPSK_MCH_1732.5MHz_RB_75_0_NTNV



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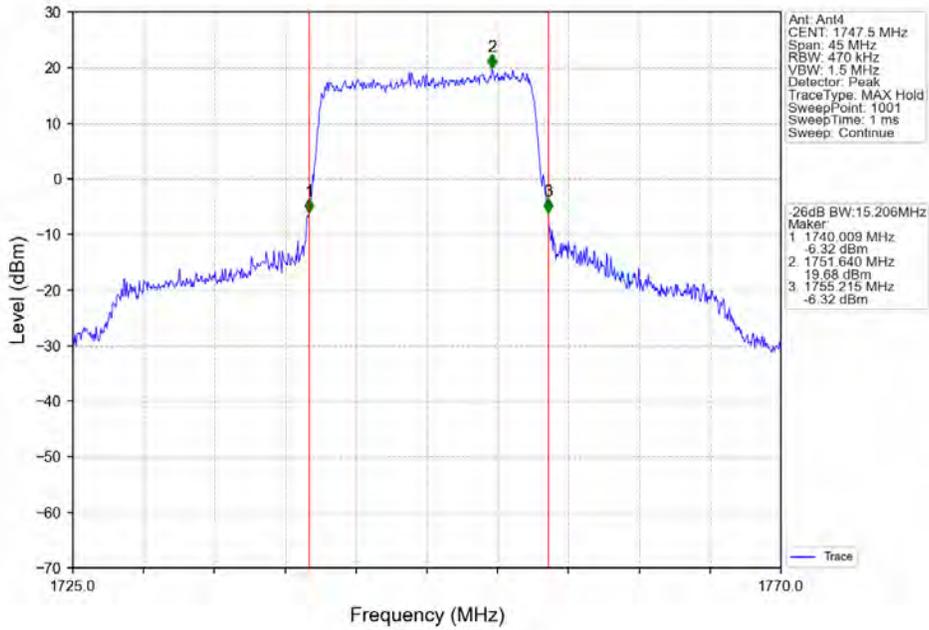
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 128 of 395

Band4_15MHz_QPSK_HCH_1747.5MHz_RB_75_0_NTNV



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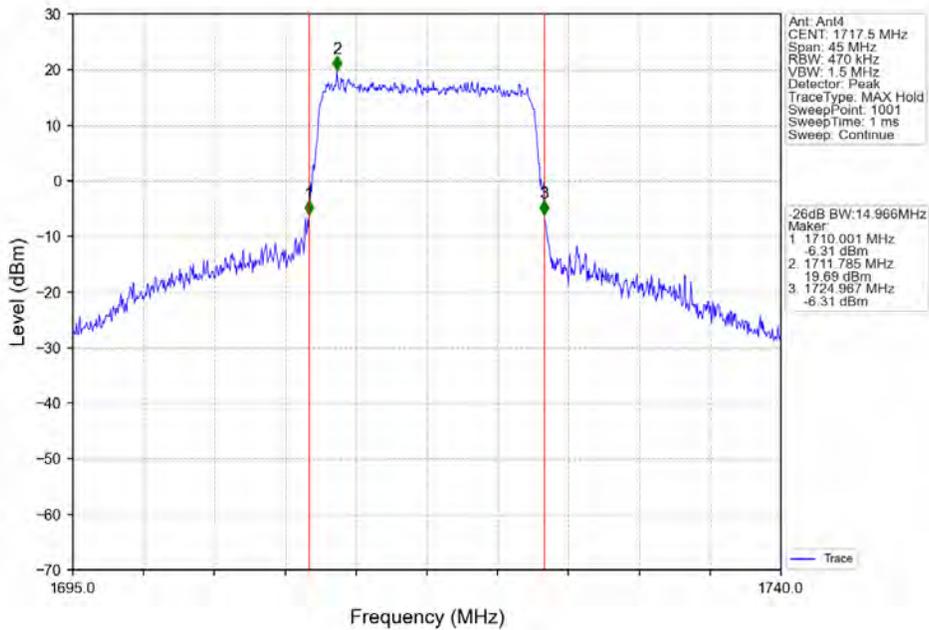
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 129 of 395

Band4_15MHz_16QAM_LCH_1717.5MHz_RB_75_0_NTNV



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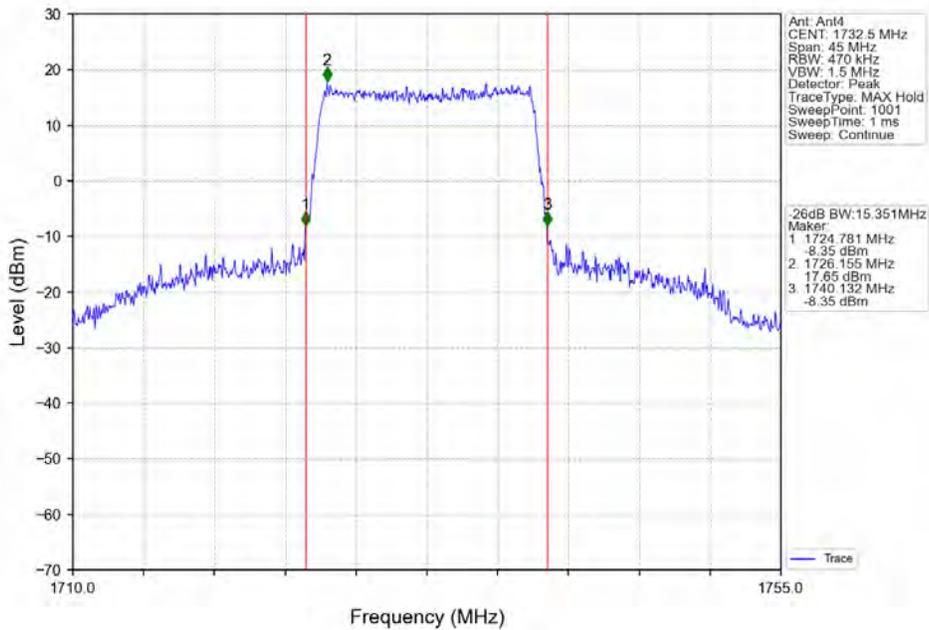
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 130 of 395

Band4 15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



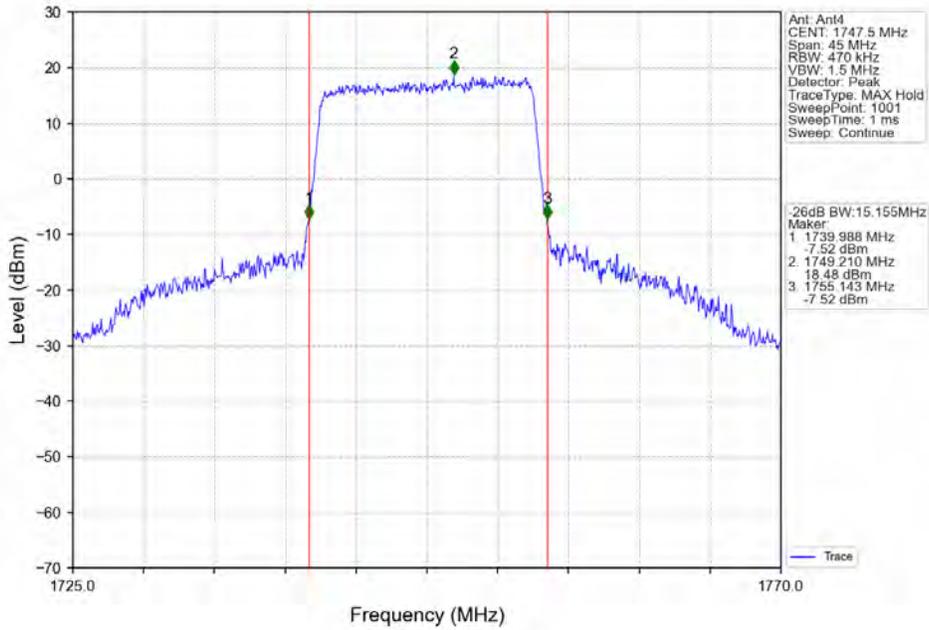
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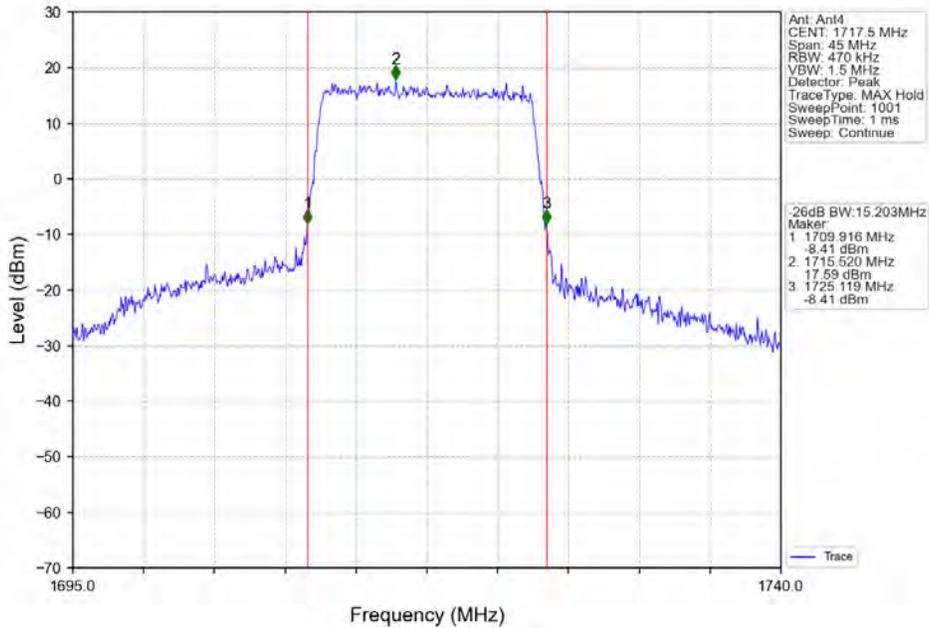


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Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



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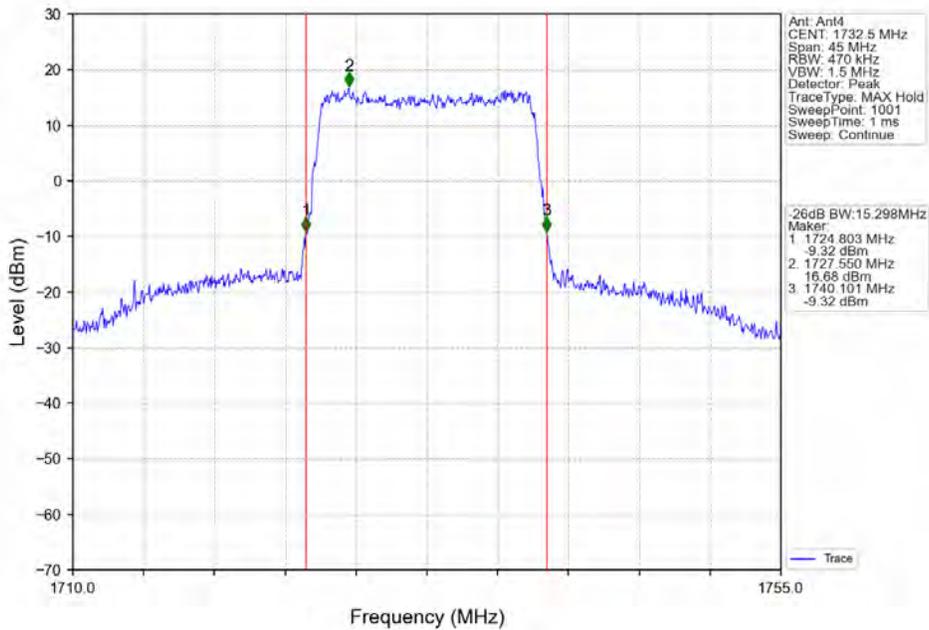
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Rev.: 01

Page: 133 of 395

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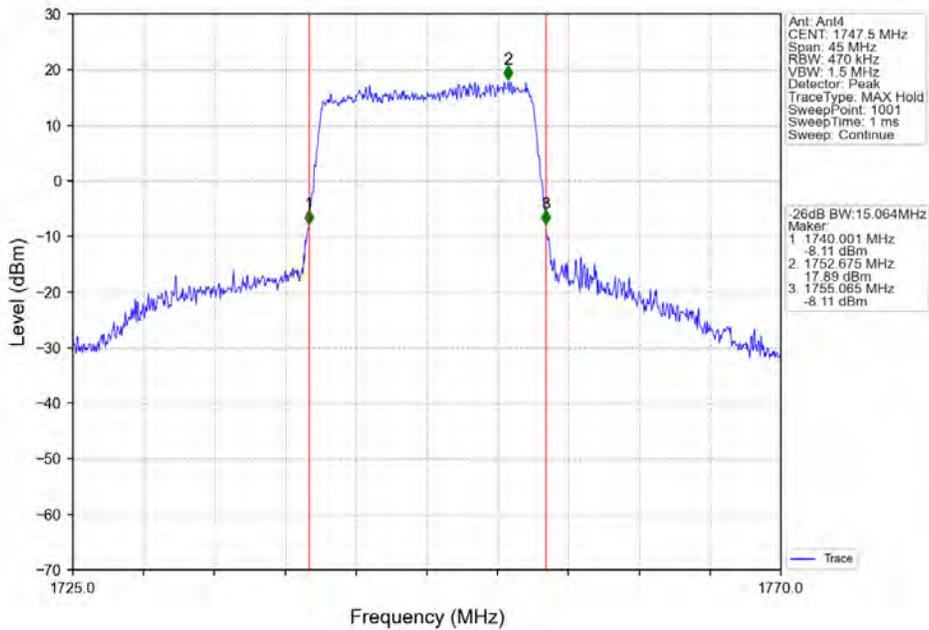
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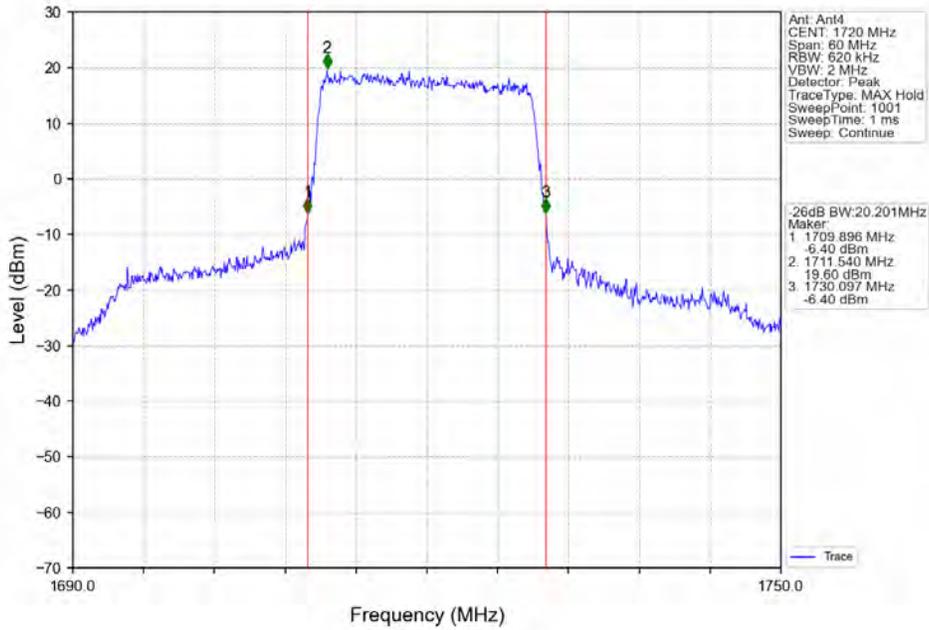


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Band4_20MHz_QPSK_LCH_1720MHz_RB_100_0_NTNV



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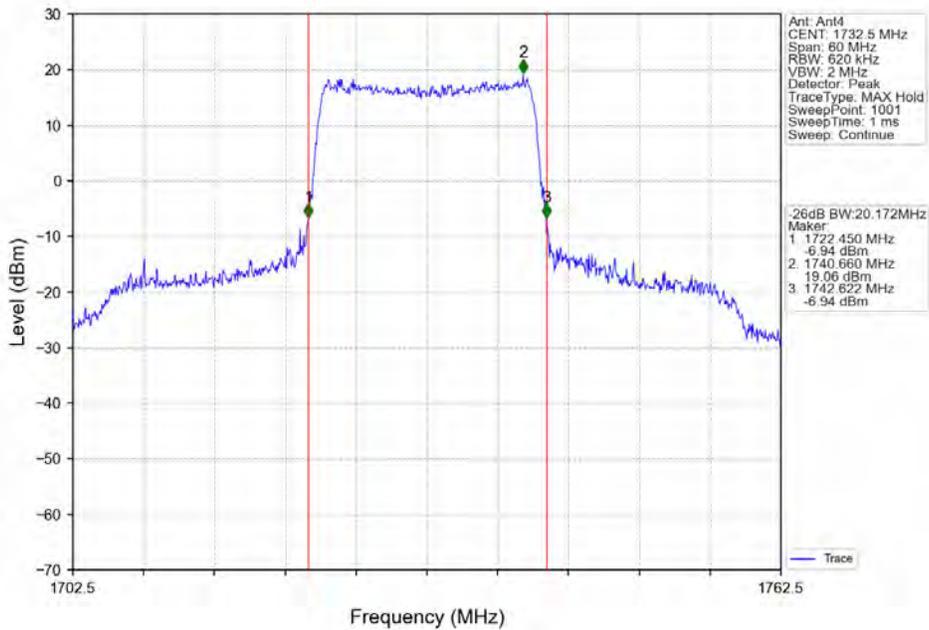
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 136 of 395

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



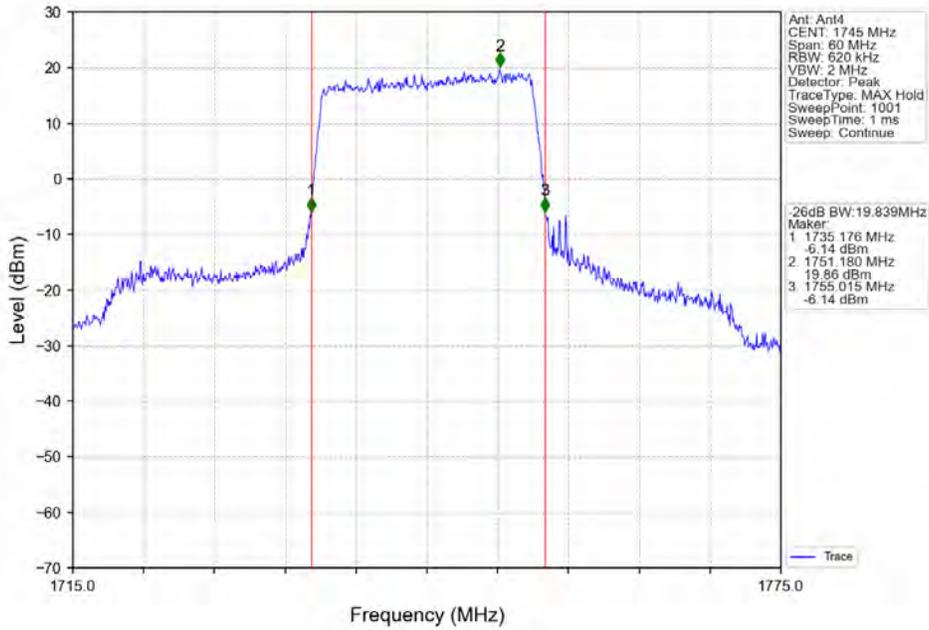
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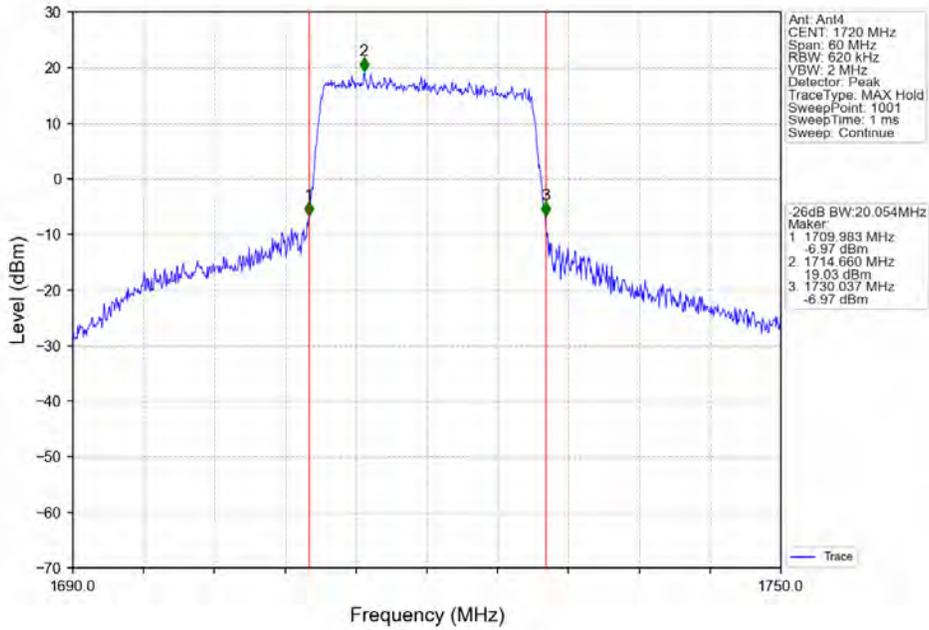
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 138 of 395

Band4_20MHz_16QAM_LCH_1720MHz_RB_100_0_NTNV



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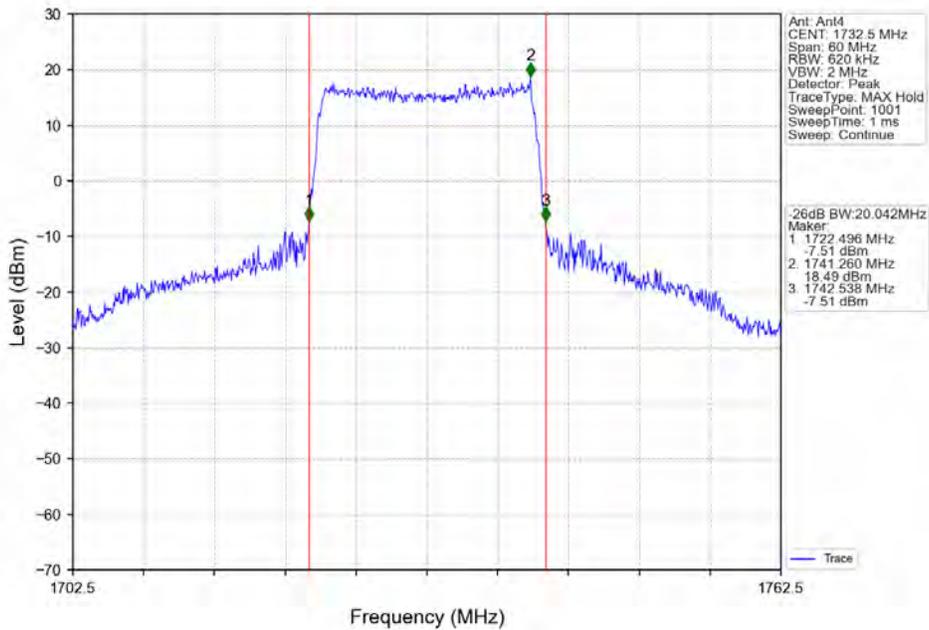
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 139 of 395

Band4_20MHz_16QAM_MCH_1732.5MHz_RB_100_0_NTNV



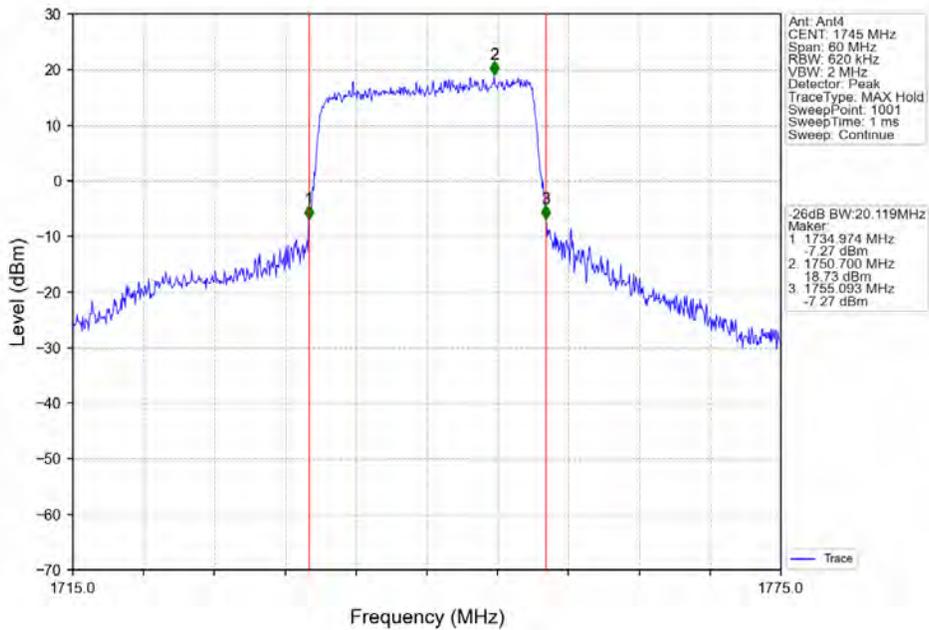
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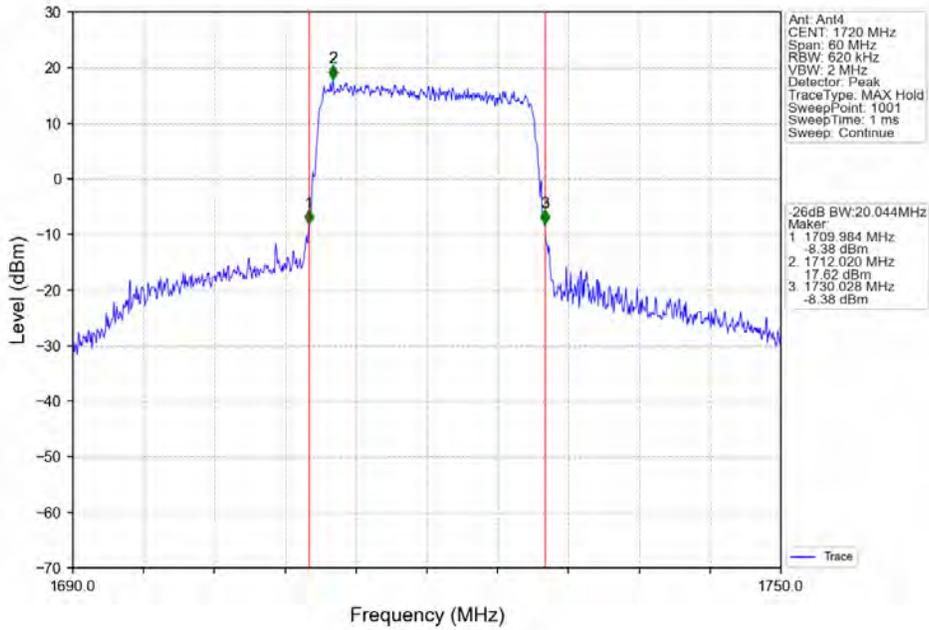


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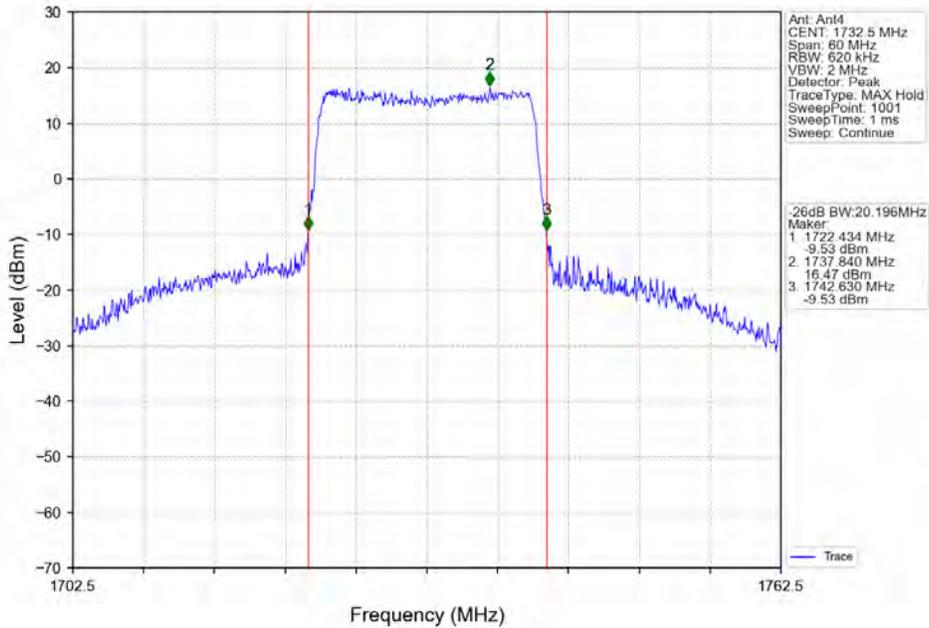


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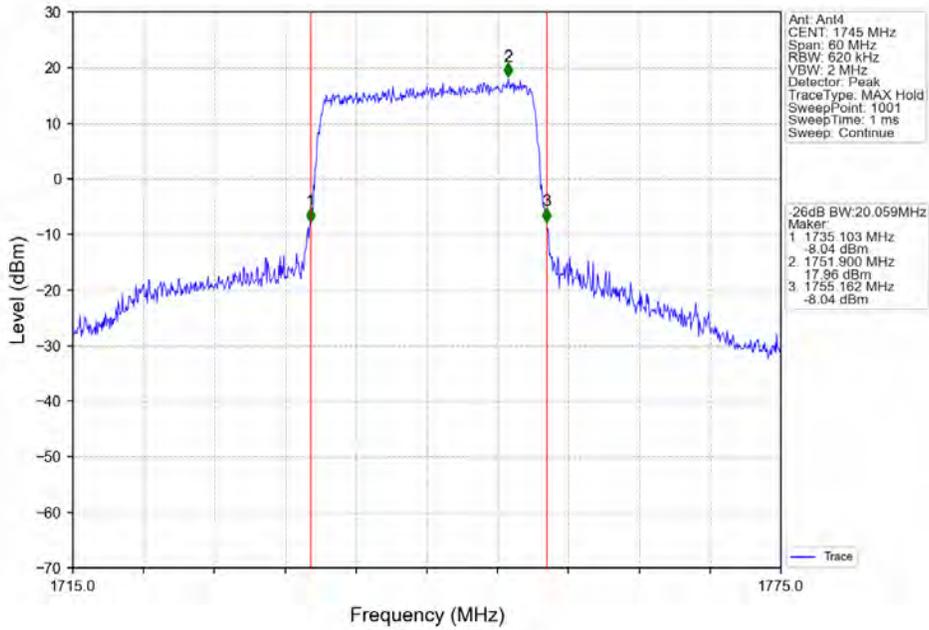


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4. Peak-Average Ratio

4.1 B4_1.4MHz

4.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	4.55	<=13	Pass
	1732.5	6	0	4.87	<=13	Pass
	1754.3	6	0	4.39	<=13	Pass
16QAM	1710.7	6	0	5.50	<=13	Pass
	1732.5	6	0	5.83	<=13	Pass
	1754.3	6	0	5.32	<=13	Pass
64QAM	1710.7	6	0	6.21	<=13	Pass
	1732.5	6	0	6.38	<=13	Pass
	1754.3	6	0	5.97	<=13	Pass

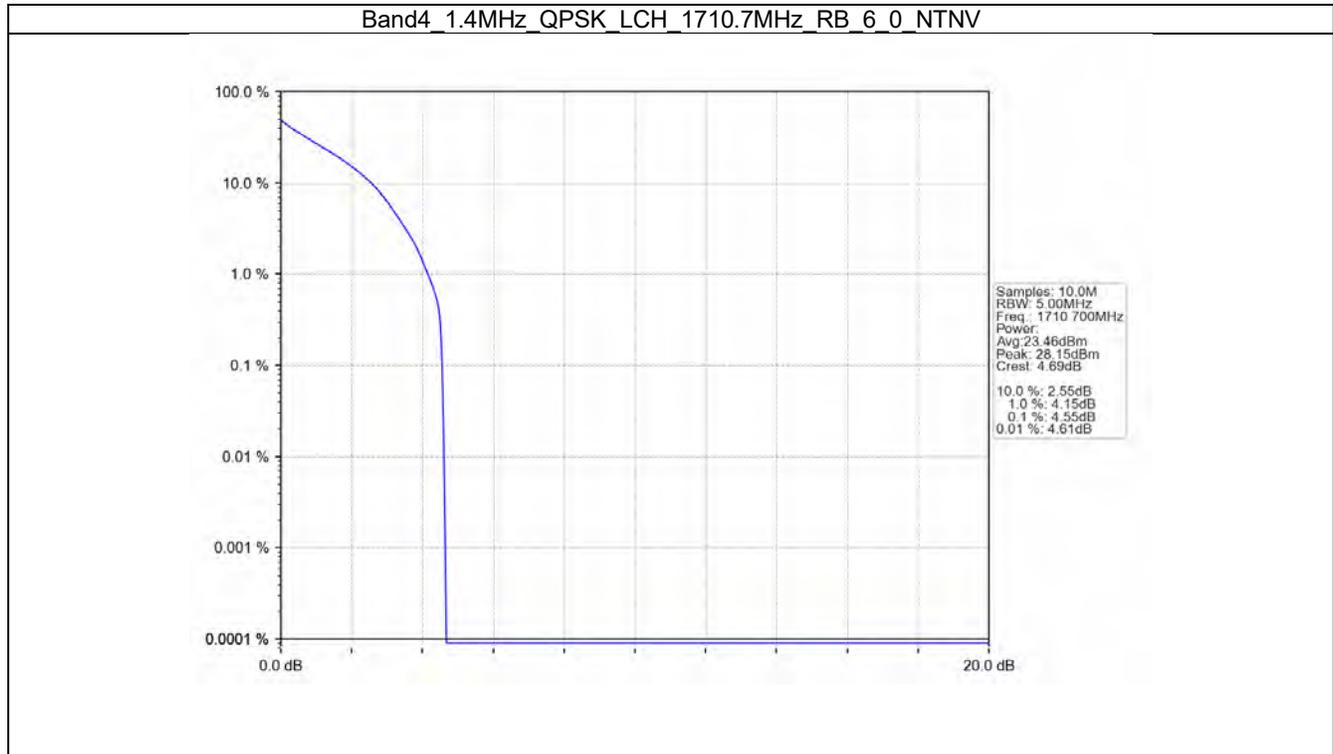


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4.1.2 Test Graph



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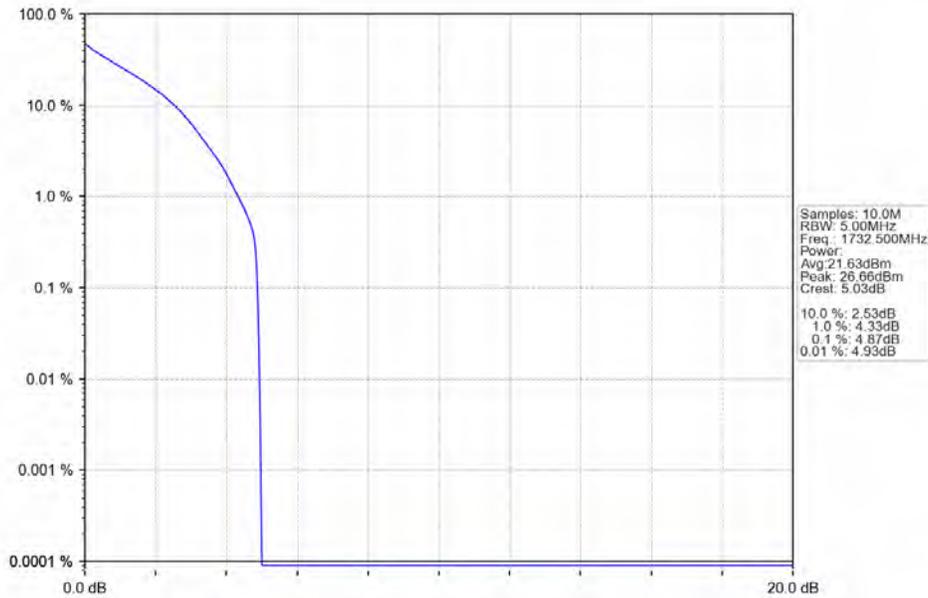
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 146 of 395

Band4_1.4MHz_QPSK_MCH_1732.5MHz_RB_6_0_NTNV



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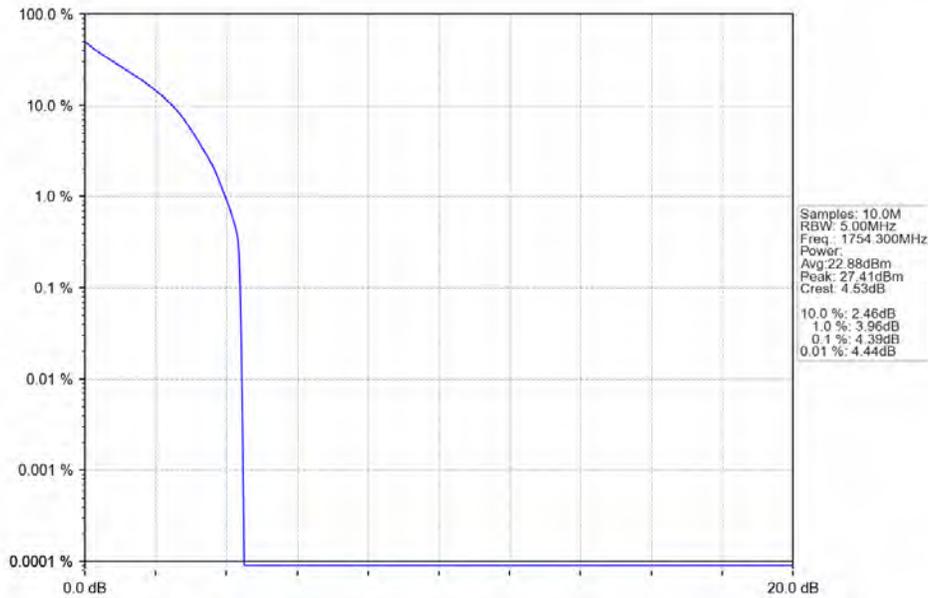
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Rev.: 01

Page: 147 of 395

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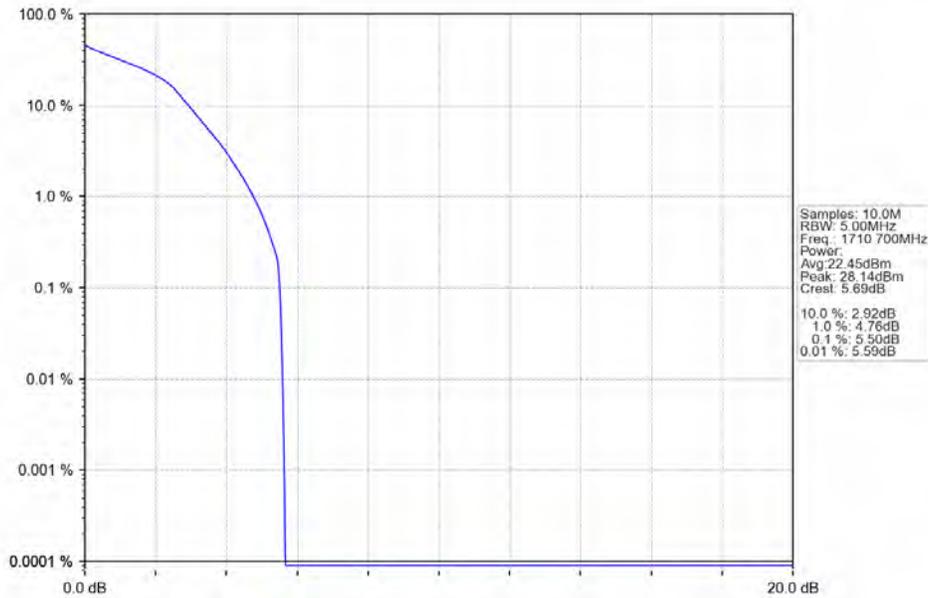
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Rev.: 01

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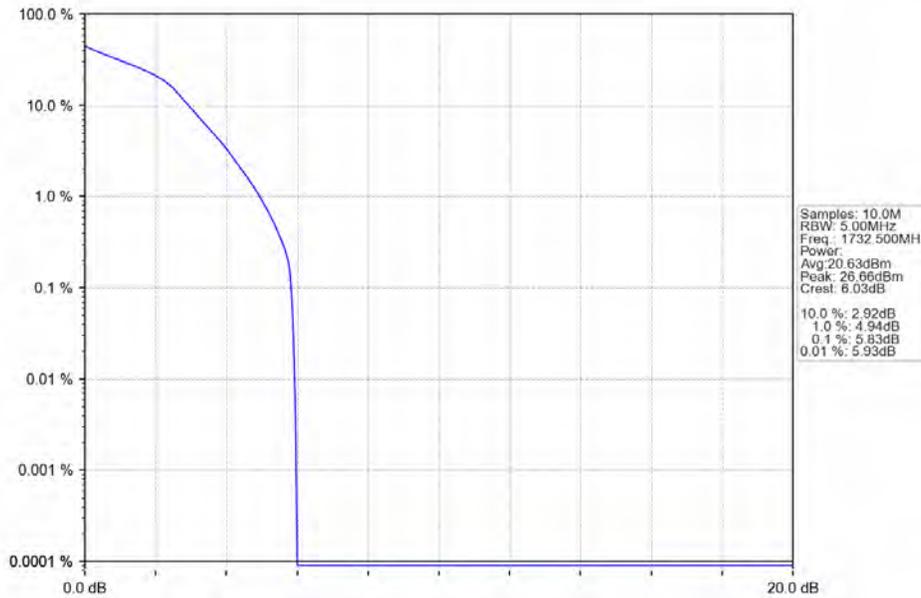
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Rev.: 01

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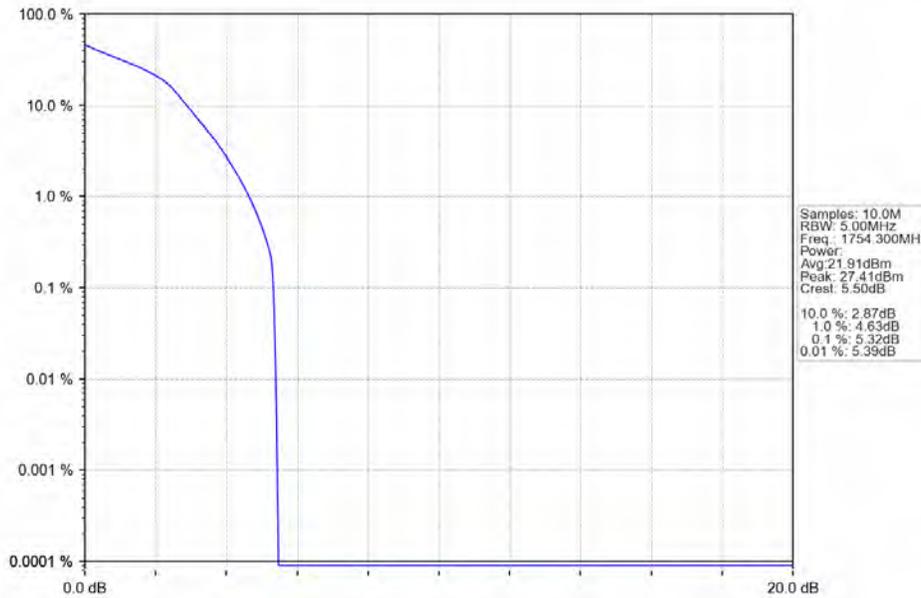


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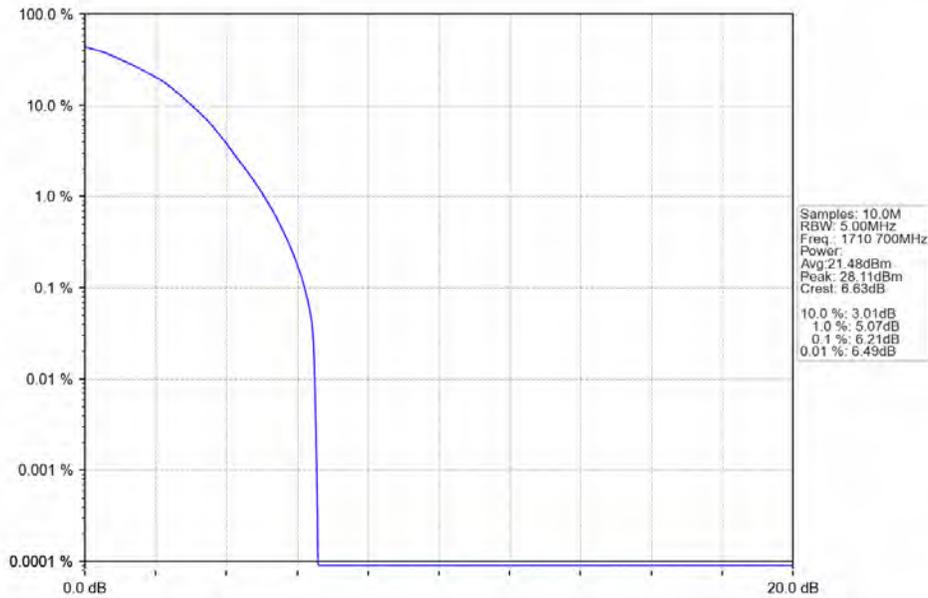


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Band4_1.4MHz_64QAM_LCH_1710.7MHz_RB_6_0_NTNV



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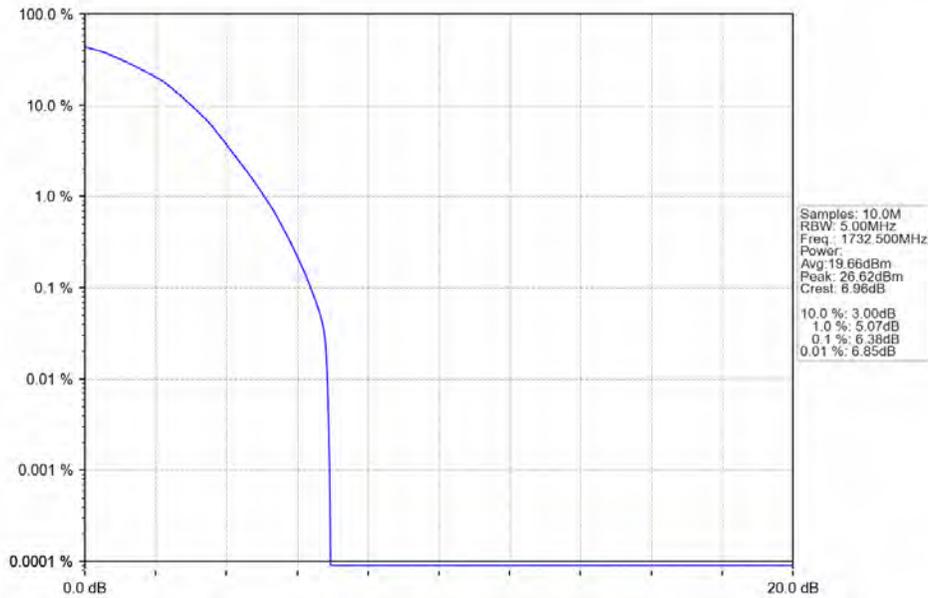
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 152 of 395

Band4 1.4MHz 64QAM MCH_1732.5MHz_RB_6_0_NTNV



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Band4_1.4MHz_64QAM_HCH_1754.3MHz_RB_6_0_NTNV



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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	4.70	<=13	Pass
	1732.5	15	0	4.99	<=13	Pass
	1753.5	15	0	4.57	<=13	Pass
16QAM	1711.5	15	0	5.60	<=13	Pass
	1732.5	15	0	5.92	<=13	Pass
	1753.5	15	0	5.46	<=13	Pass
64QAM	1711.5	15	0	6.16	<=13	Pass
	1732.5	15	0	6.39	<=13	Pass
	1753.5	15	0	6.02	<=13	Pass

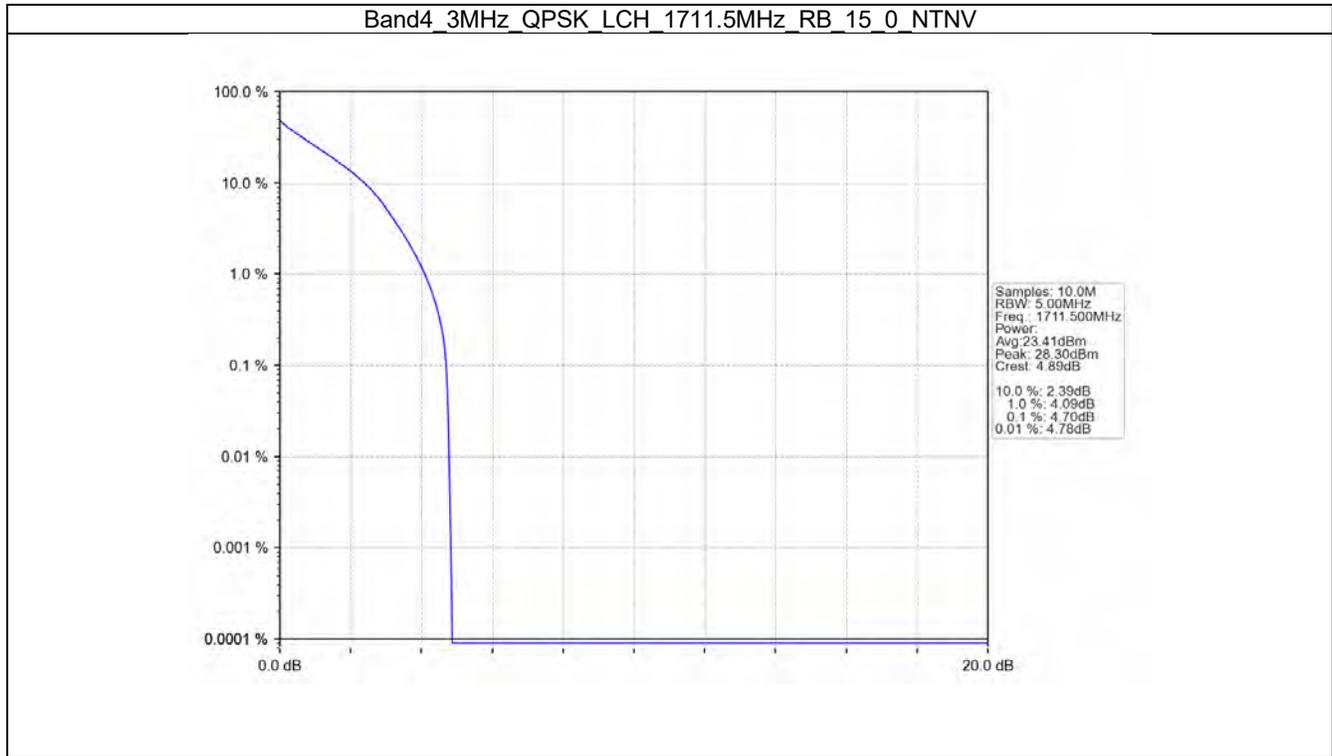


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4.2.2 Test Graph

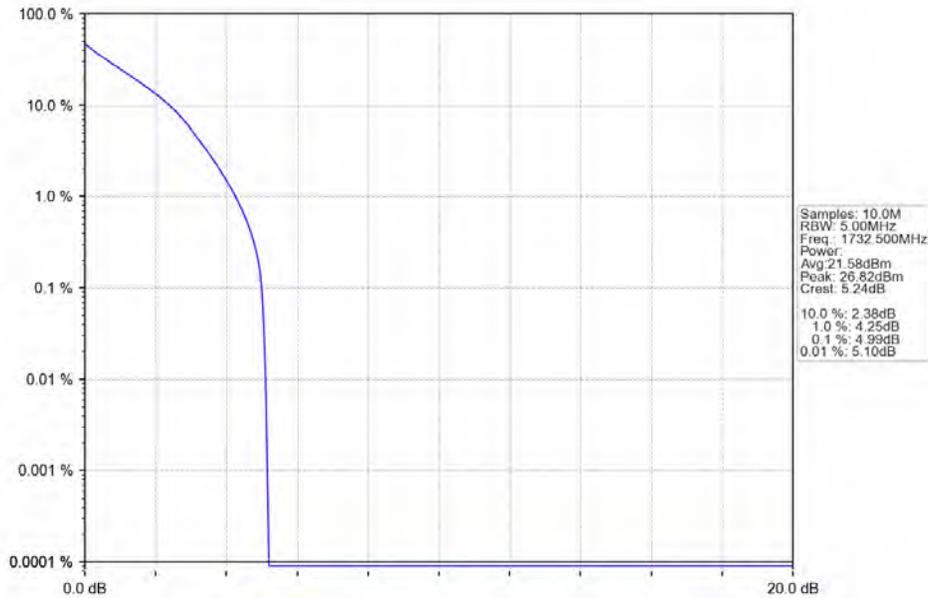


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Band4 3MHz QPSK MCH 1732.5MHz RB 15 0 NTV



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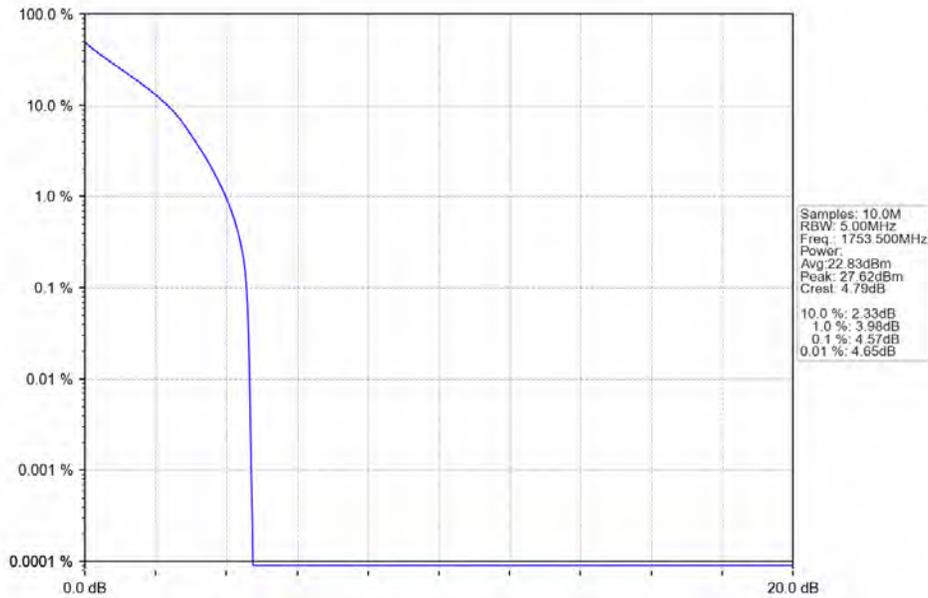
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 157 of 395

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



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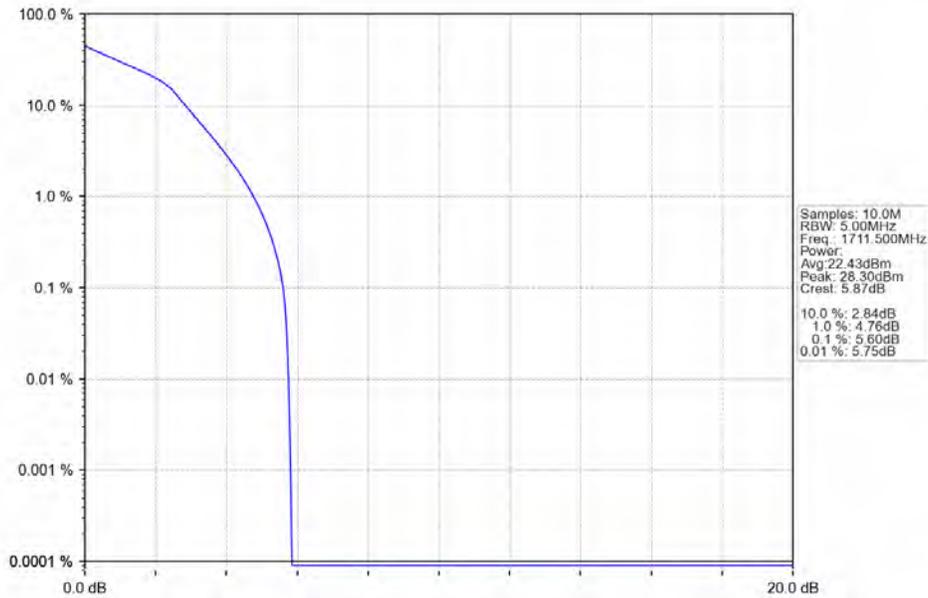
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Rev.: 01

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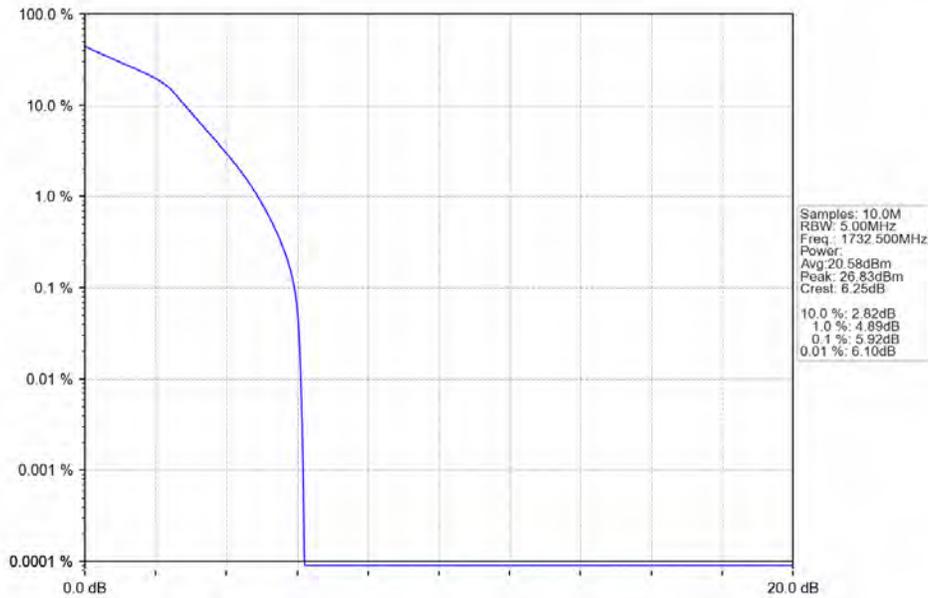
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 159 of 395

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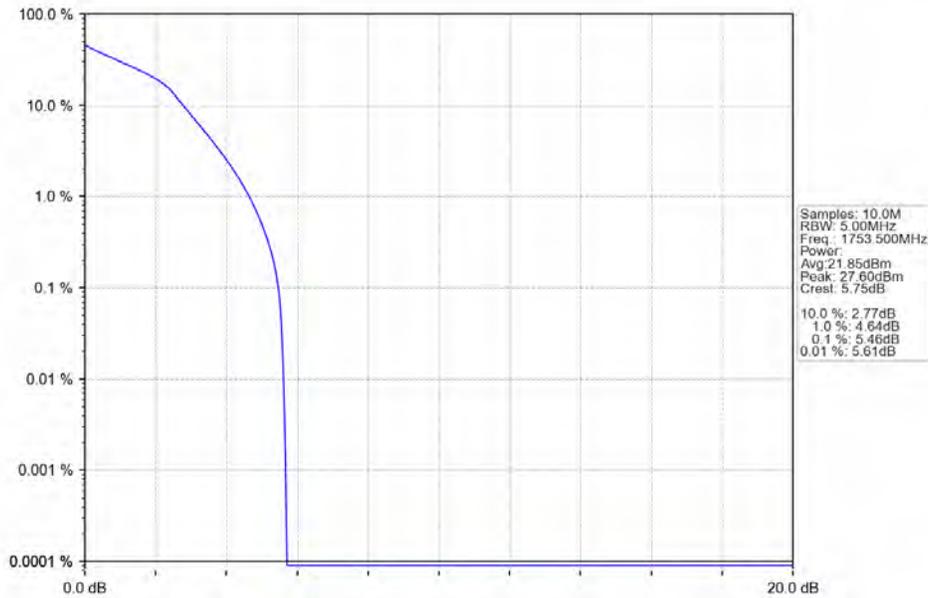
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 160 of 395

Band4_3MHz_16QAM_HCH_1753.5MHz_RB_15_0_NTNV



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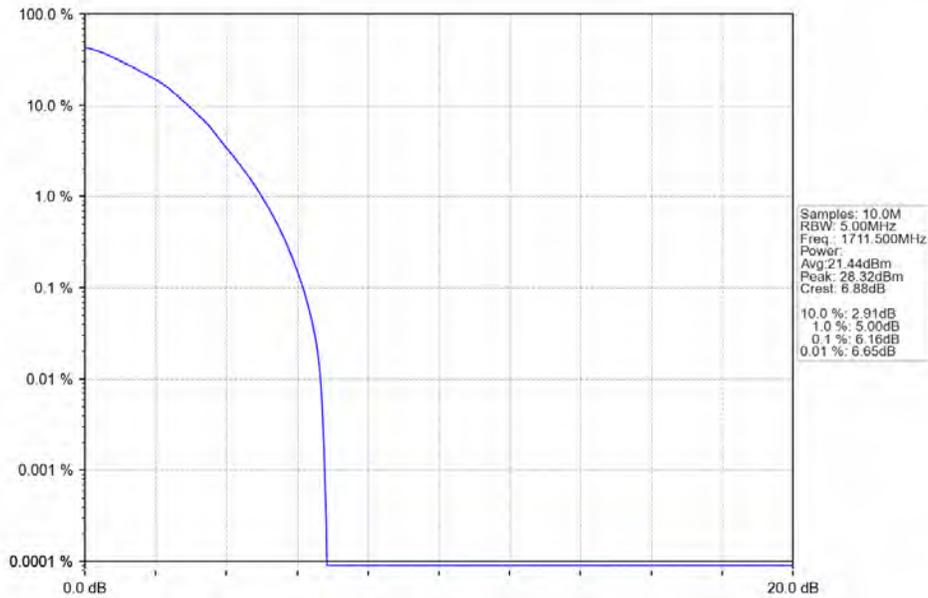
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Rev.: 01

Page: 161 of 395

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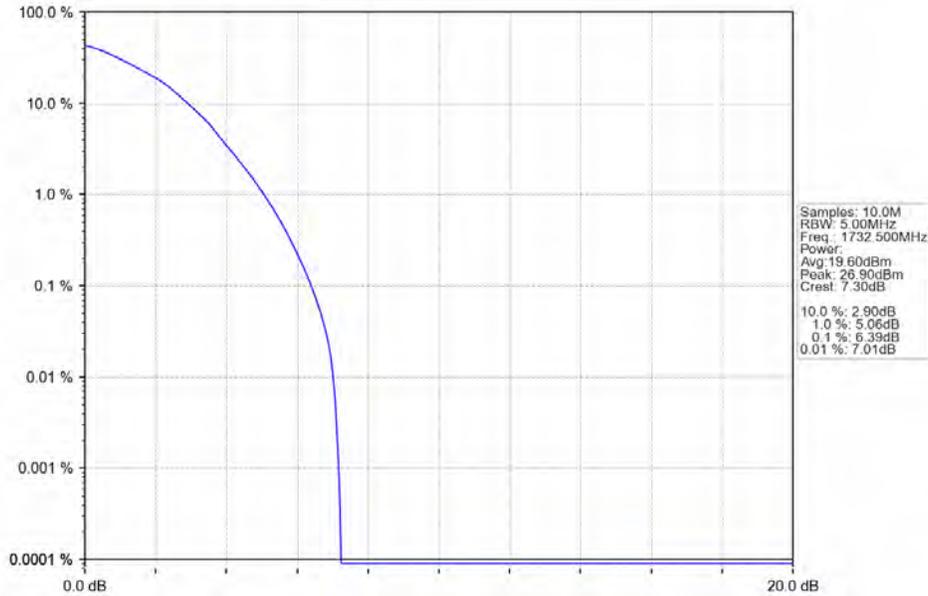
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 162 of 395

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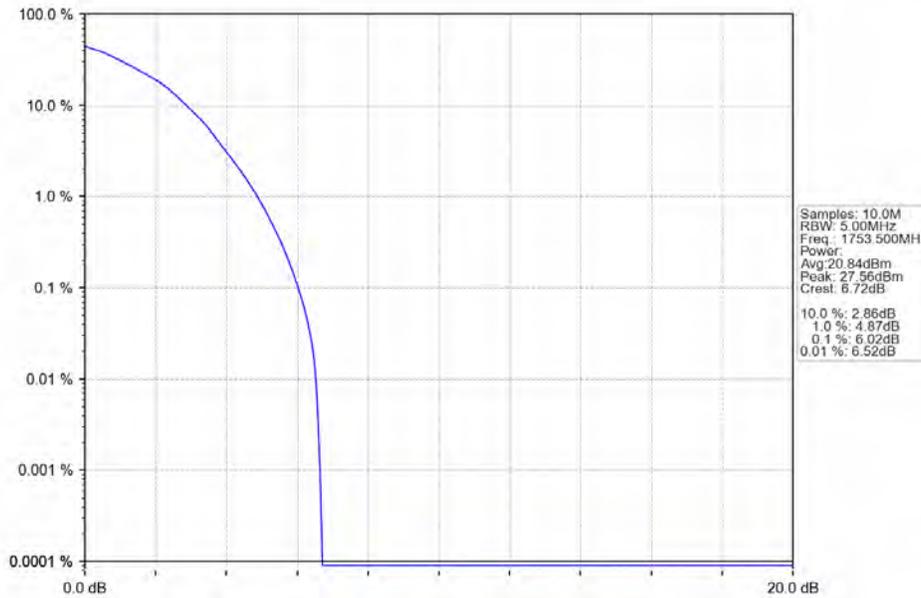


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4.3 B4_5MHz

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	5.02	<=13	Pass
	1732.5	25	0	5.25	<=13	Pass
	1752.5	25	0	4.95	<=13	Pass
16QAM	1712.5	25	0	5.82	<=13	Pass
	1732.5	25	0	6.06	<=13	Pass
	1752.5	25	0	5.74	<=13	Pass
64QAM	1712.5	25	0	6.26	<=13	Pass
	1732.5	25	0	6.42	<=13	Pass
	1752.5	25	0	6.16	<=13	Pass

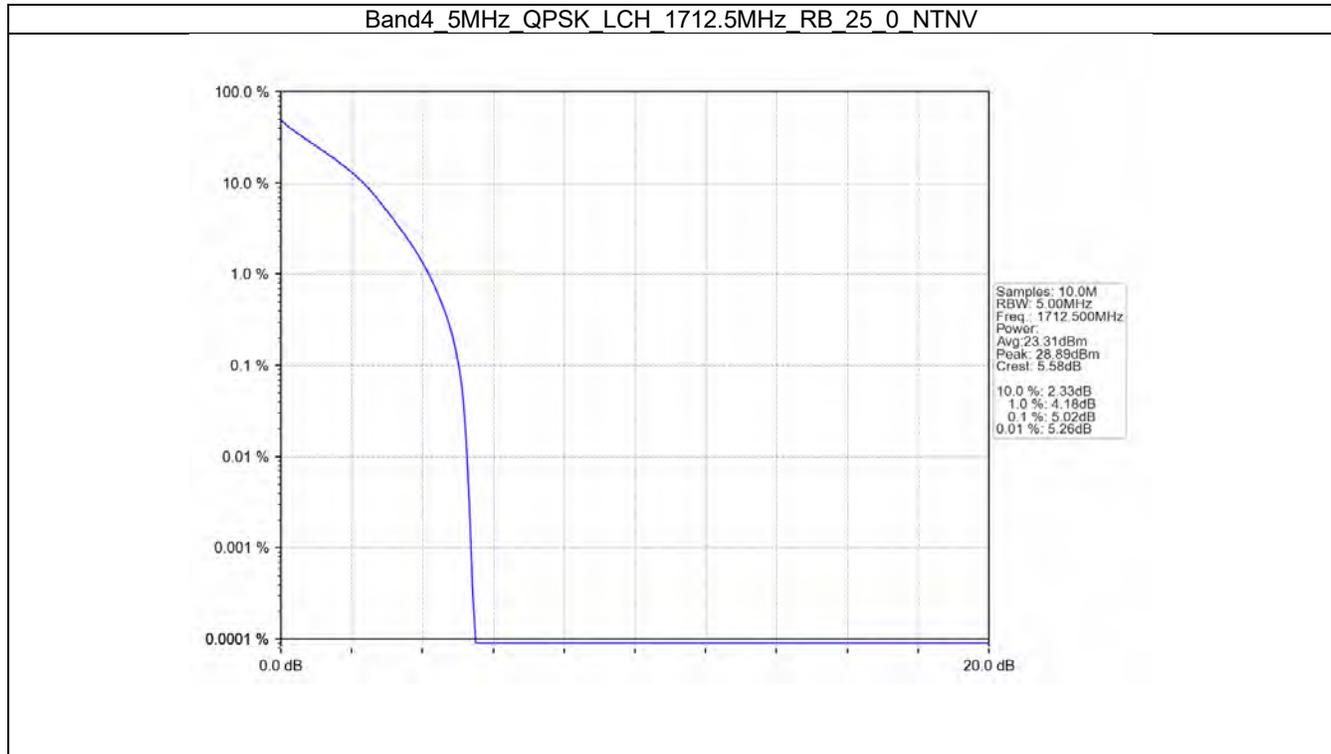


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4.3.2 Test Graph



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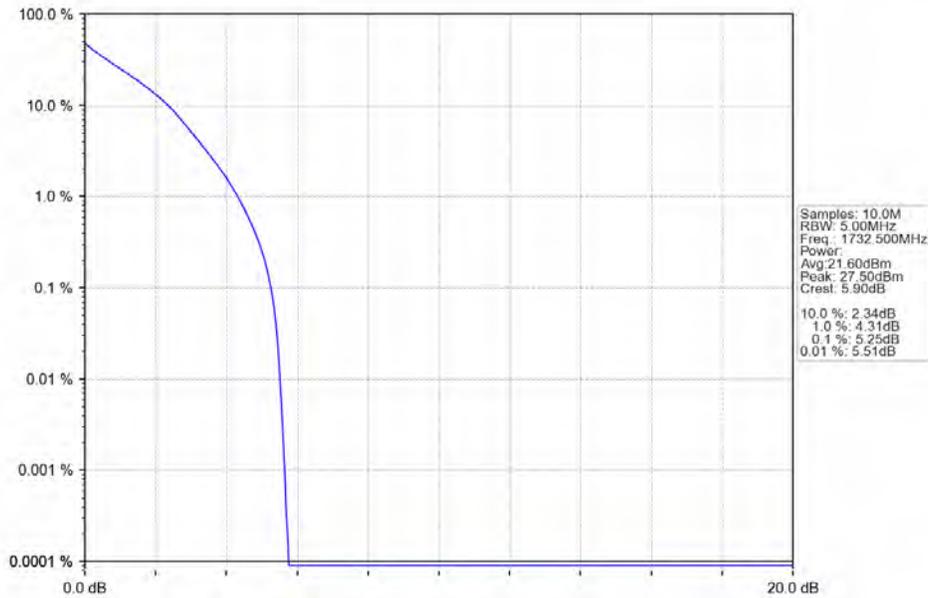
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 166 of 395

Band4_5MHz_QPSK_MCH_1732.5MHz_RB_25_0_NTNV

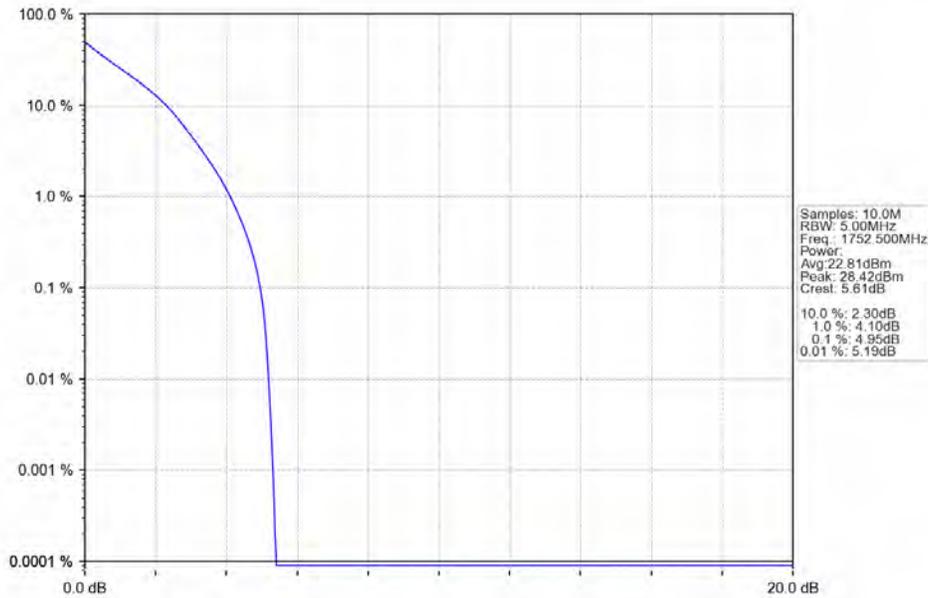


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Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



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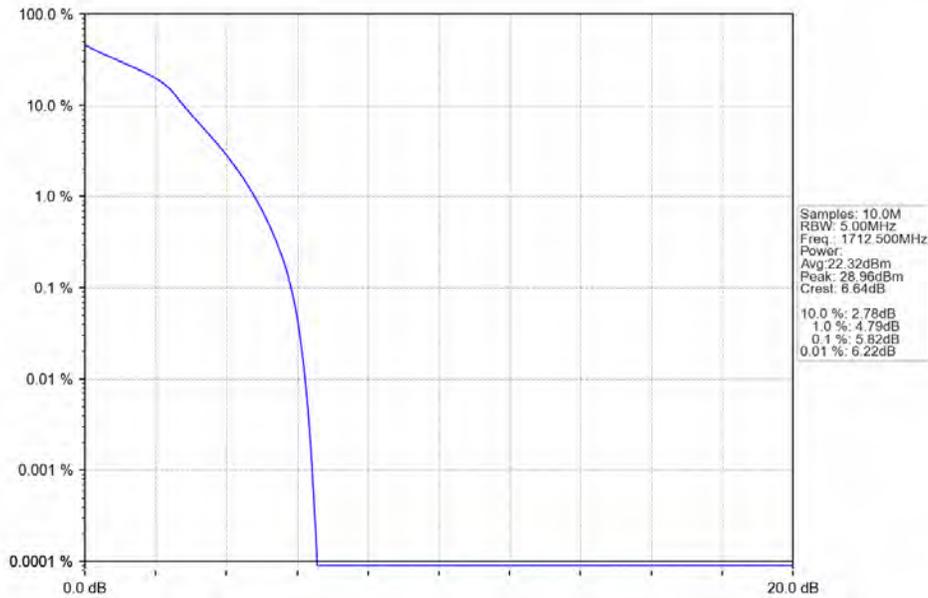
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 168 of 395

Band4_5MHz_16QAM_LCH_1712.5MHz_RB_25_0_NTNV



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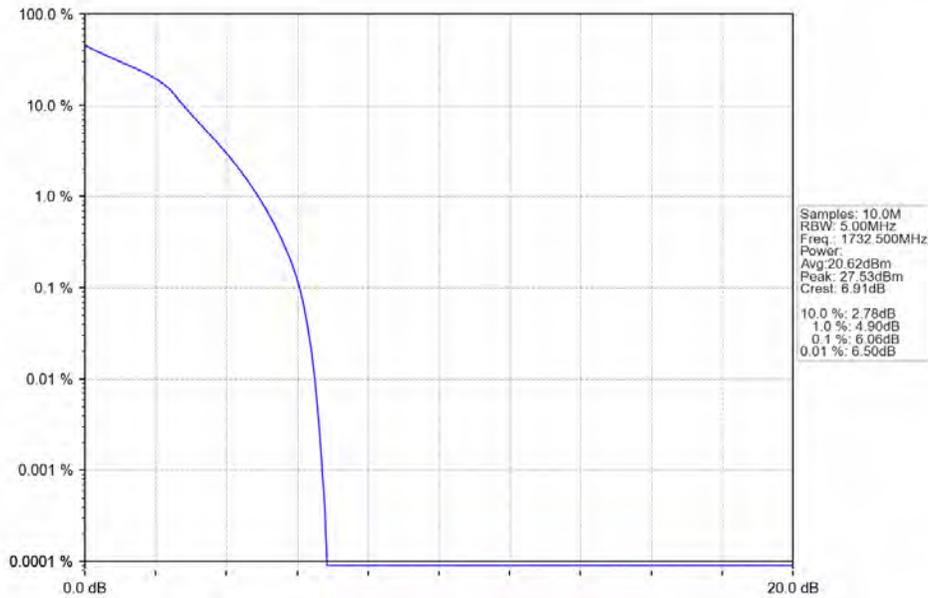
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 169 of 395

Band4_5MHz_16QAM_MCH_1732.5MHz_RB_25_0_NTNV



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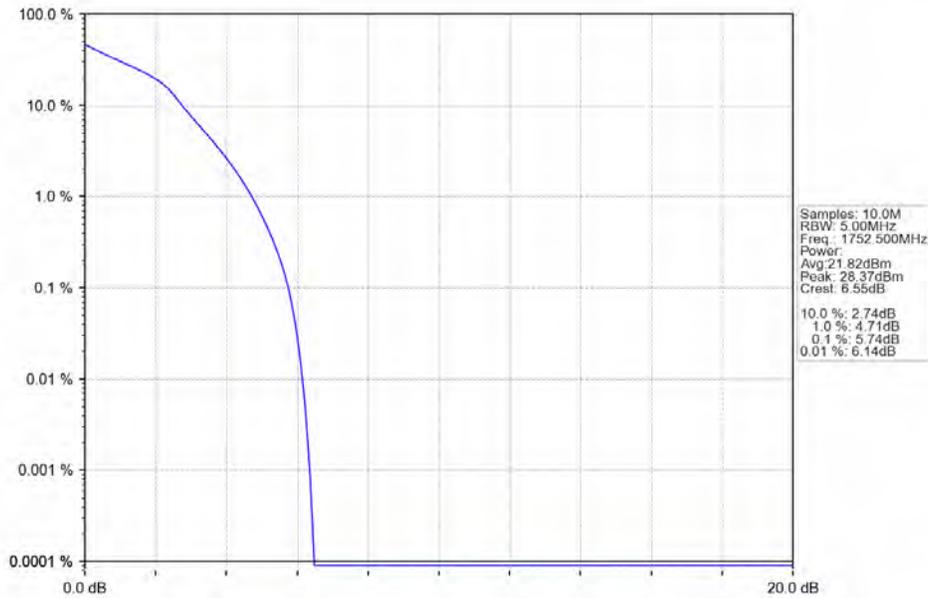
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 170 of 395

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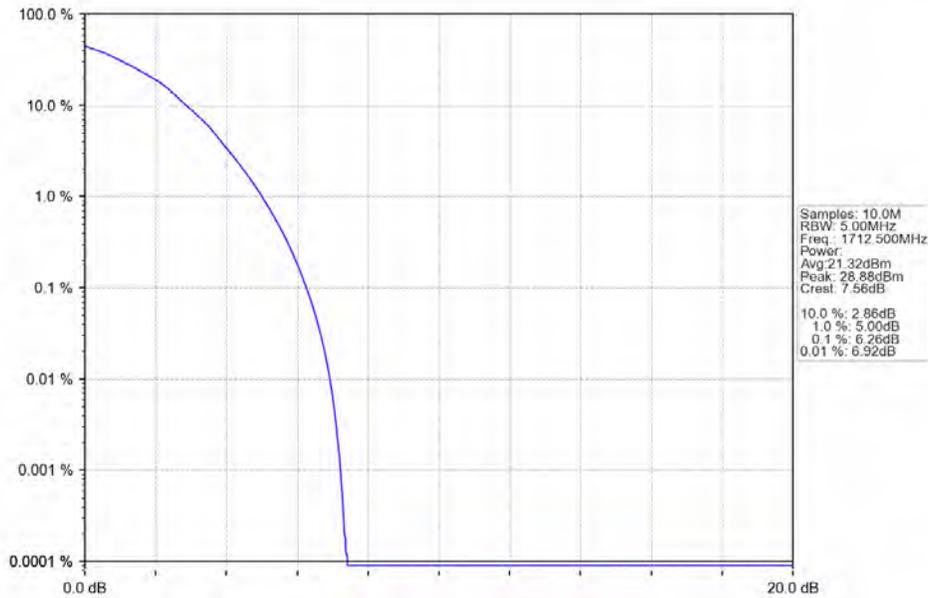
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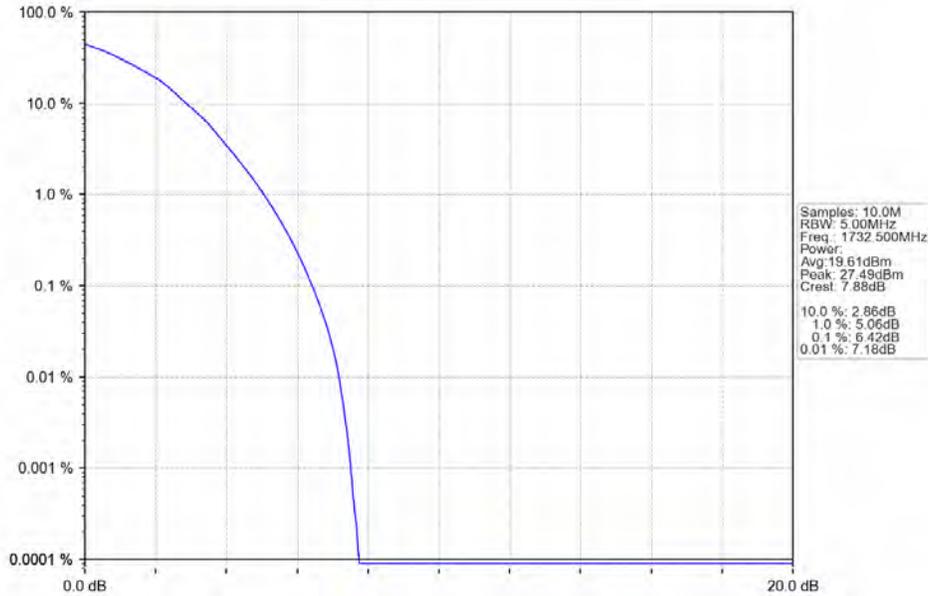
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Rev.: 01

Page: 172 of 395

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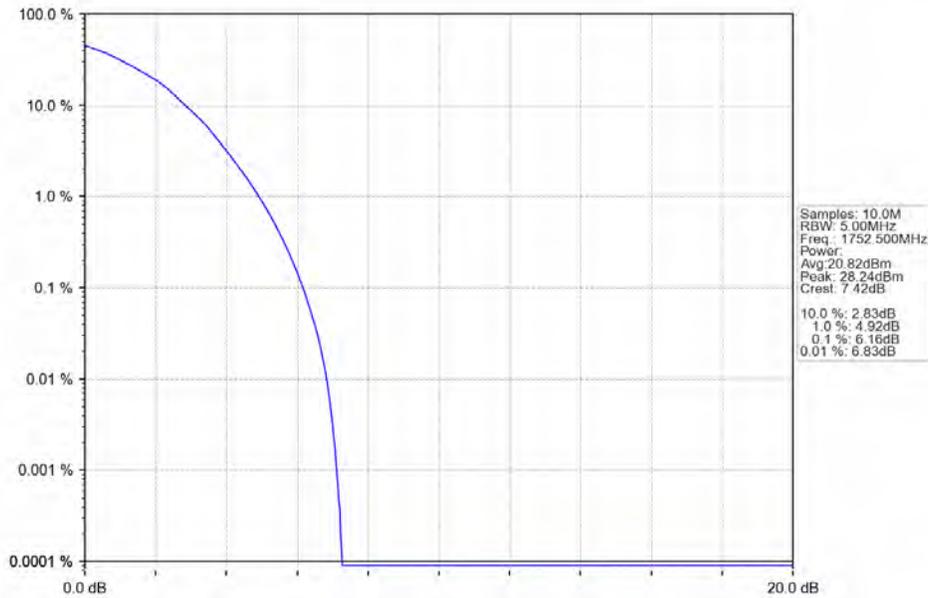
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4.4 B4_10MHz

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	5.10	<=13	Pass
	1732.5	50	0	5.34	<=13	Pass
	1750	50	0	5.05	<=13	Pass
16QAM	1715	50	0	5.86	<=13	Pass
	1732.5	50	0	6.10	<=13	Pass
	1750	50	0	5.83	<=13	Pass
64QAM	1715	50	0	6.27	<=13	Pass
	1732.5	50	0	6.43	<=13	Pass
	1750	50	0	6.21	<=13	Pass



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4.4.2 Test Graph



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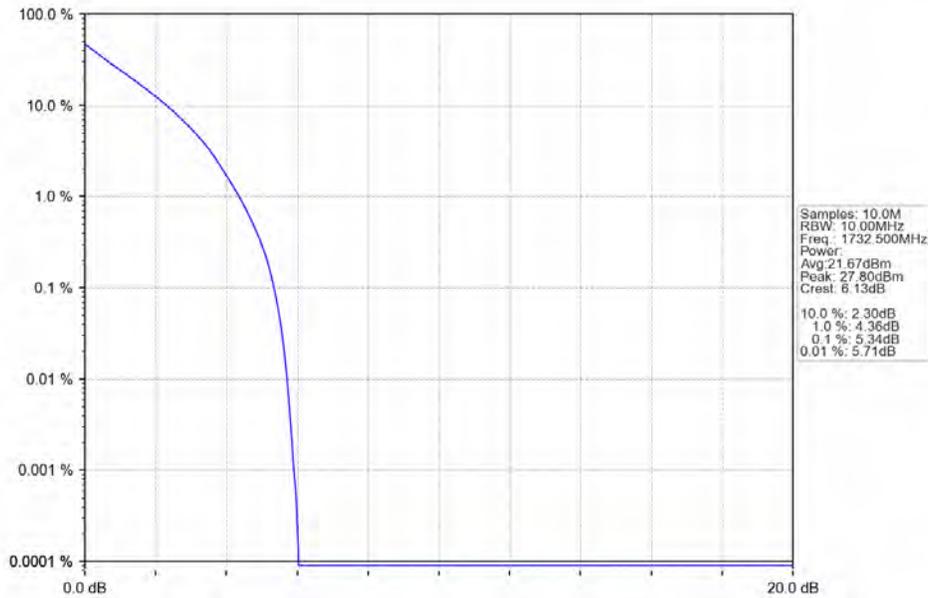
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 176 of 395

Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



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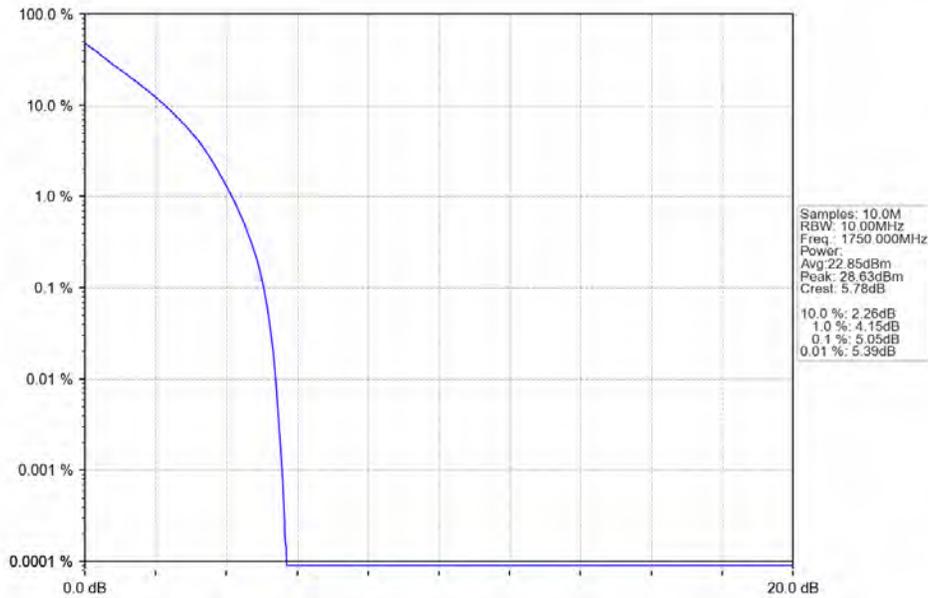
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Rev.: 01

Page: 177 of 395

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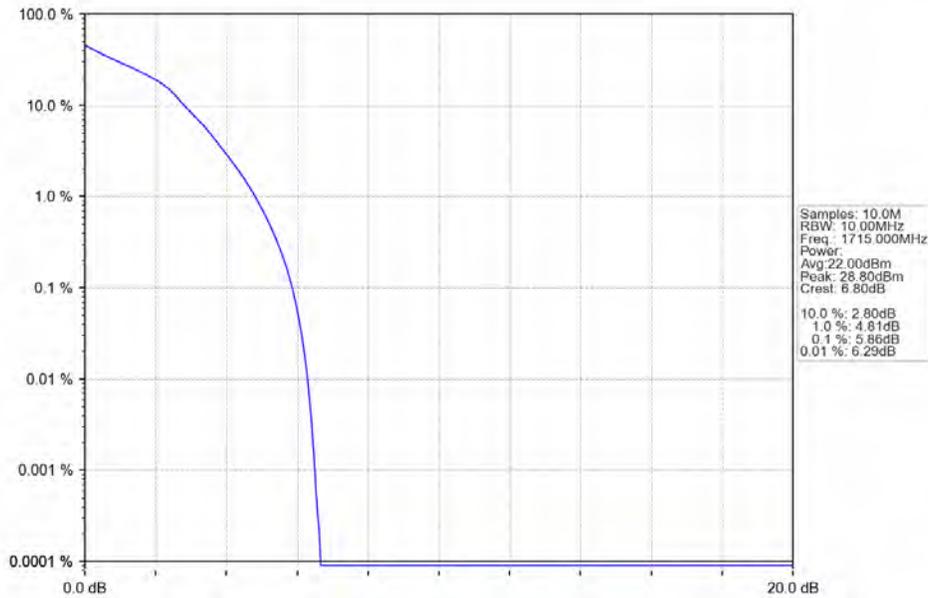


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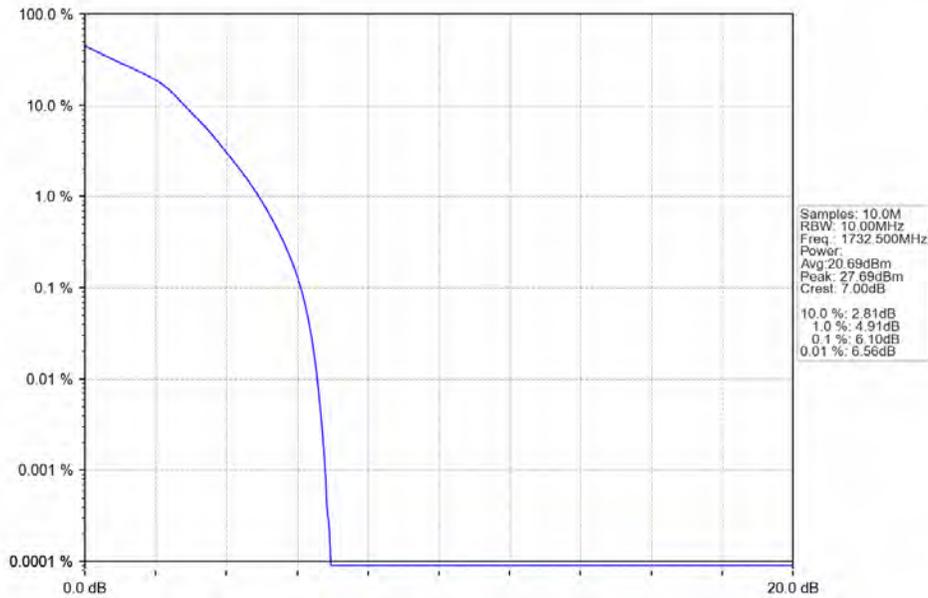
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 179 of 395

Band4 10MHz_16QAM_MCH_1732.5MHz_RB_50_0_NTNV



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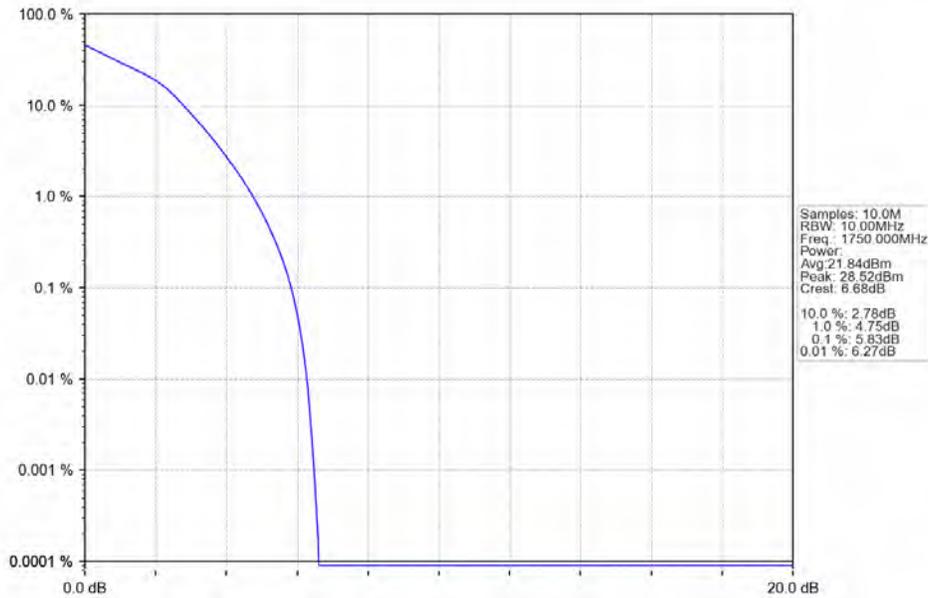
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 180 of 395

Band4_10MHz_16QAM_HCH_1750MHz_RB_50_0_NTNV



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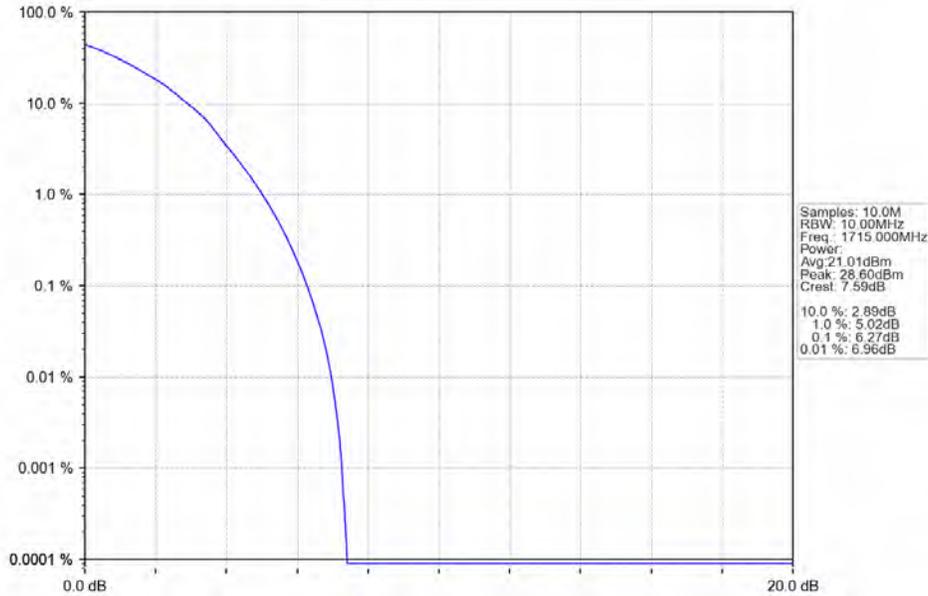
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 181 of 395

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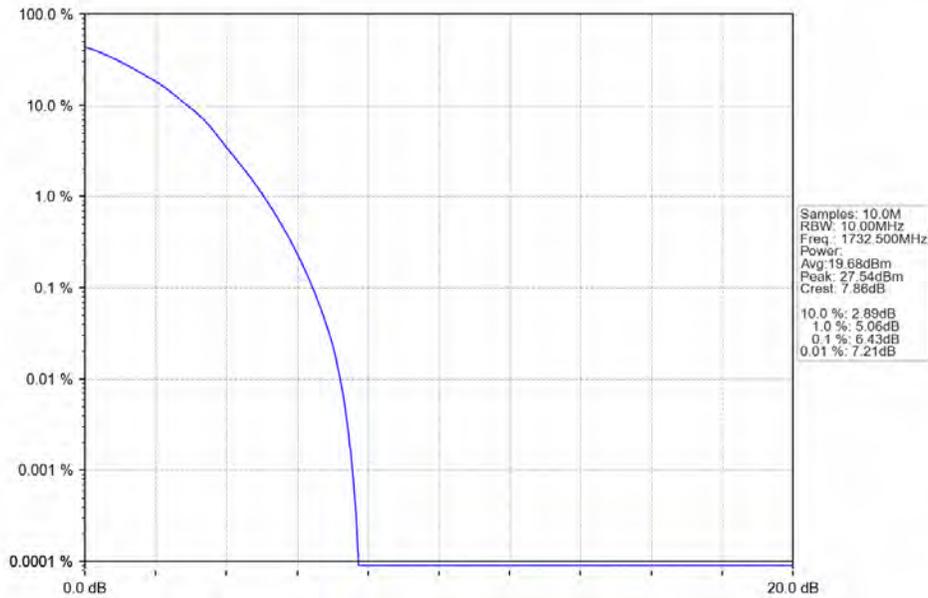


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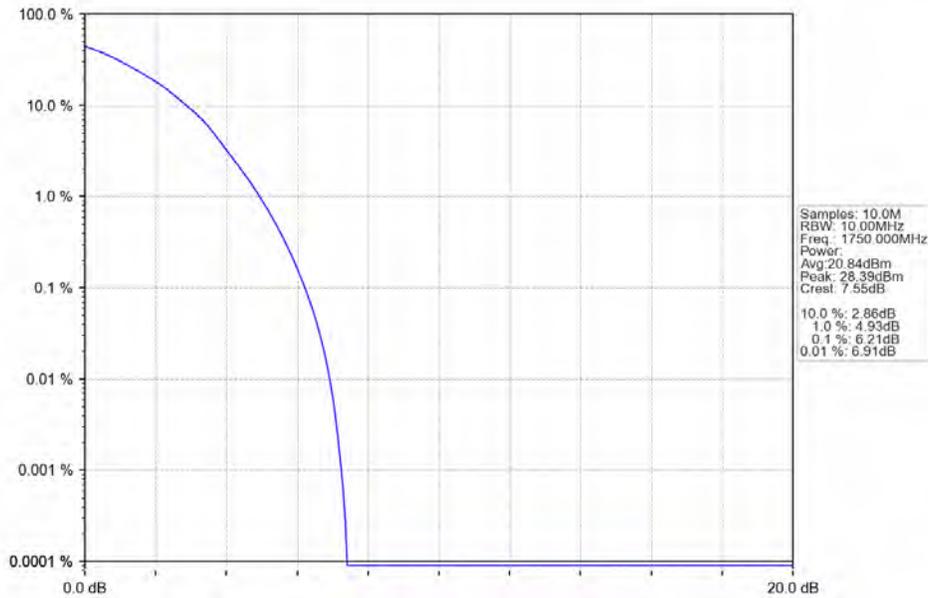
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Rev.: 01

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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	4.99	<=13	Pass
	1732.5	75	0	5.33	<=13	Pass
	1747.5	75	0	5.05	<=13	Pass
16QAM	1717.5	75	0	5.78	<=13	Pass
	1732.5	75	0	6.09	<=13	Pass
	1747.5	75	0	5.83	<=13	Pass
64QAM	1717.5	75	0	6.21	<=13	Pass
	1732.5	75	0	6.45	<=13	Pass
	1747.5	75	0	6.21	<=13	Pass

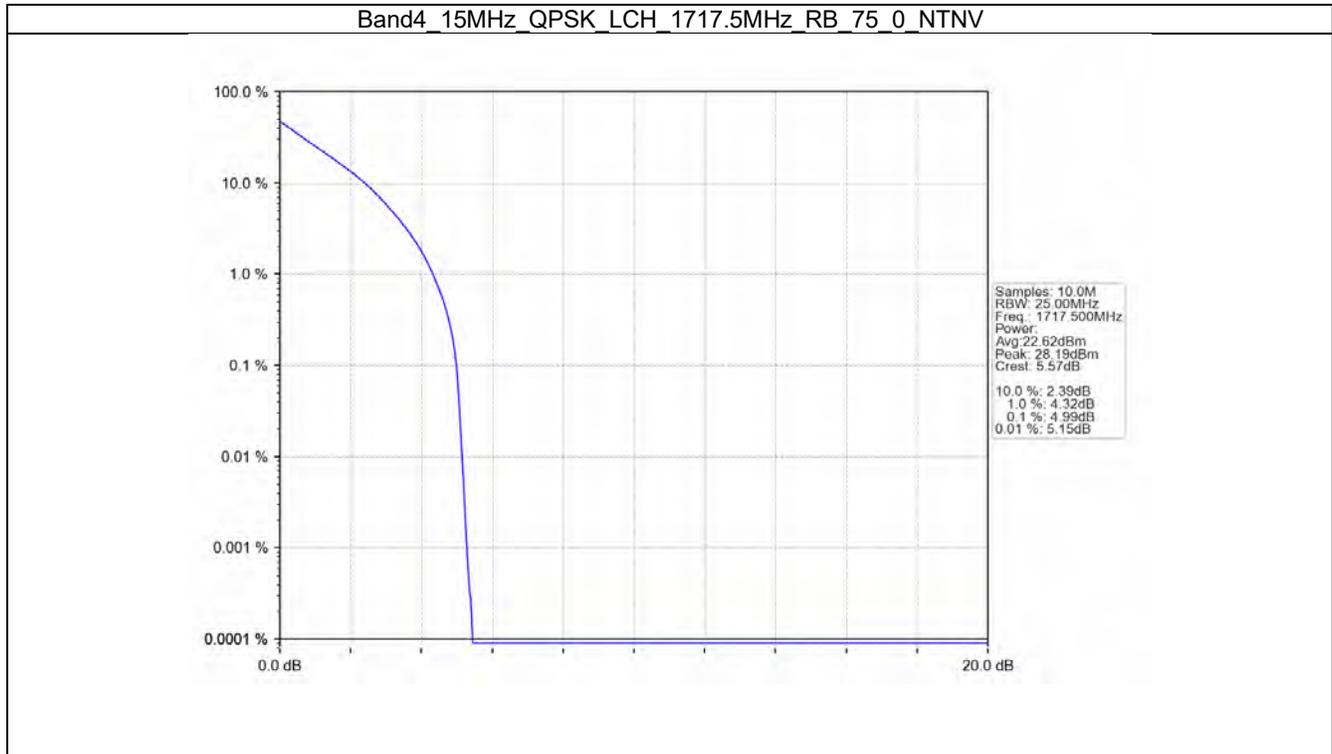


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4.5.2 Test Graph

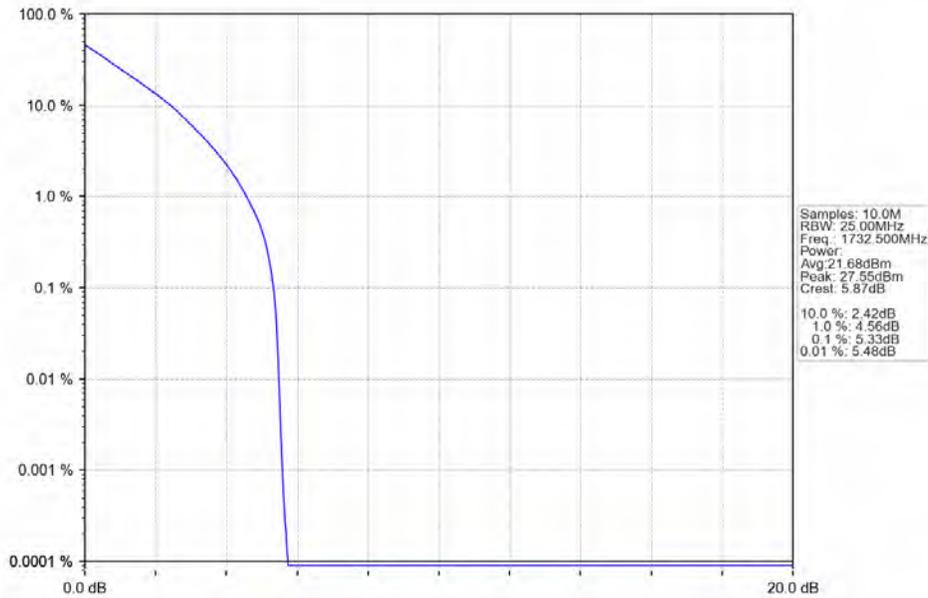


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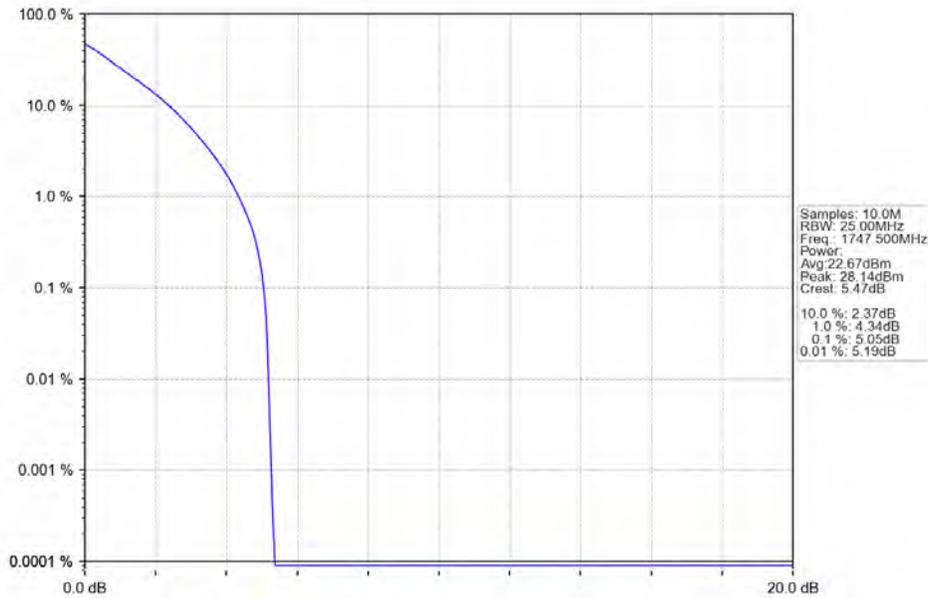


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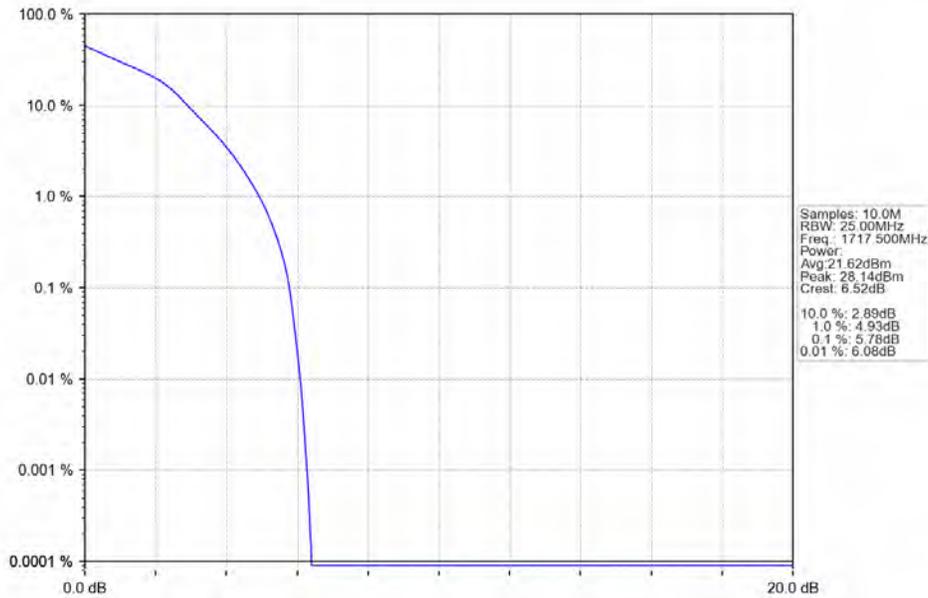
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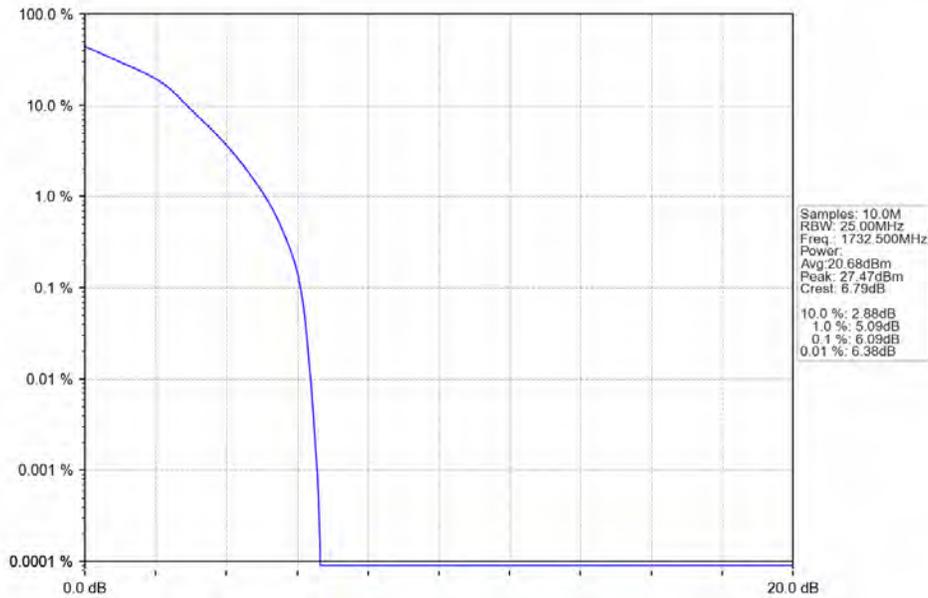
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 189 of 395

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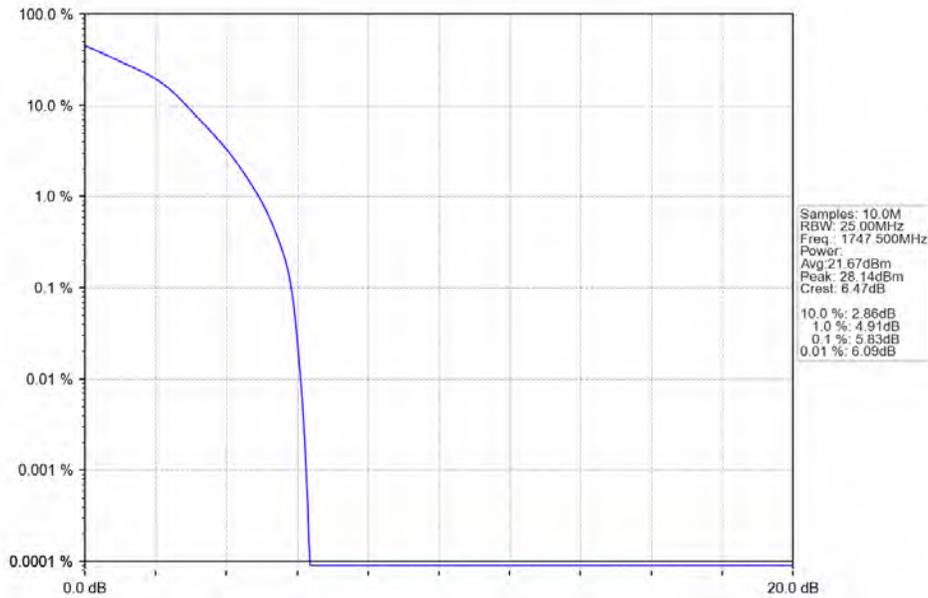


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Band4 15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



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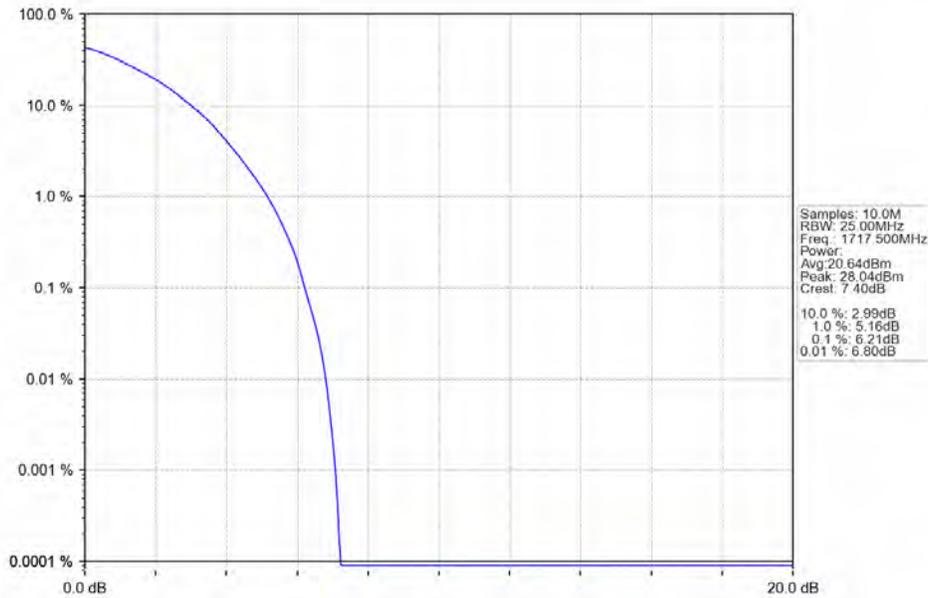
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 191 of 395

Band4_15MHz_64QAM_LCH_1717.5MHz_RB_75_0_NTNV



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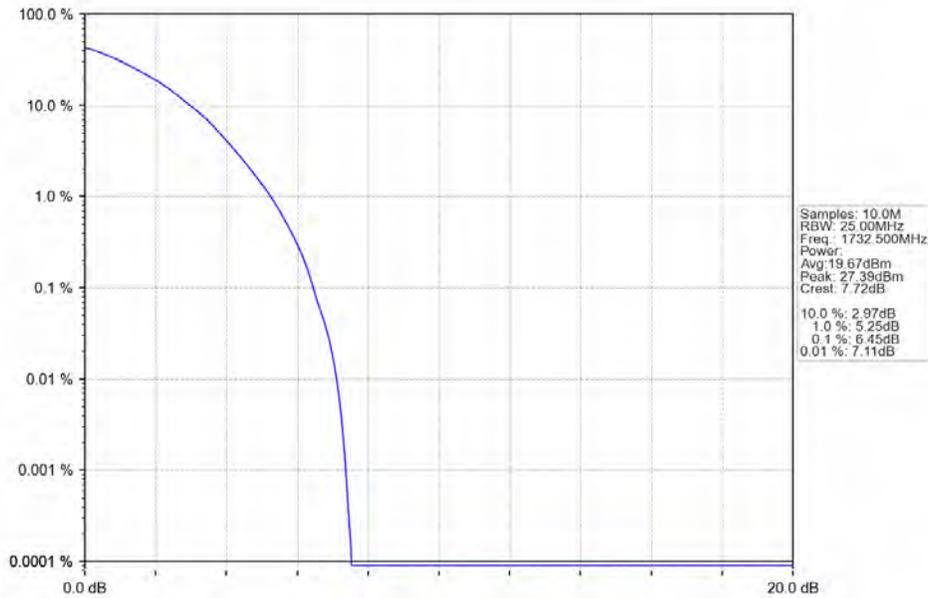
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 192 of 395

Band4 15MHz_64QAM_MCH_1732.5MHz_RB_75_0_NTNV

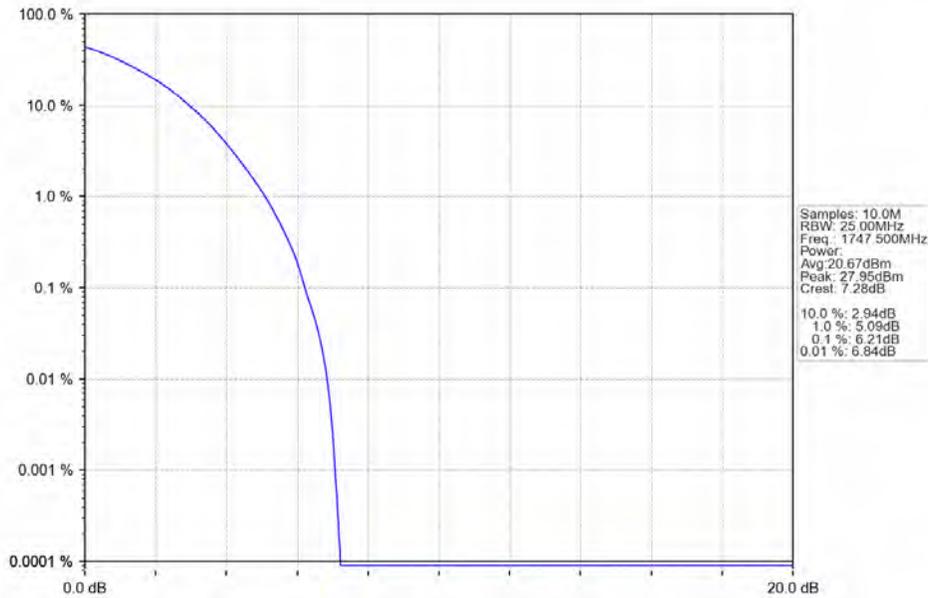


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4.6 B4_20MHz

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	5.06	<=13	Pass
	1732.5	100	0	5.37	<=13	Pass
	1745	100	0	5.14	<=13	Pass
16QAM	1720	100	0	5.86	<=13	Pass
	1732.5	100	0	6.13	<=13	Pass
	1745	100	0	5.91	<=13	Pass
64QAM	1720	100	0	6.28	<=13	Pass
	1732.5	100	0	6.49	<=13	Pass
	1745	100	0	6.27	<=13	Pass

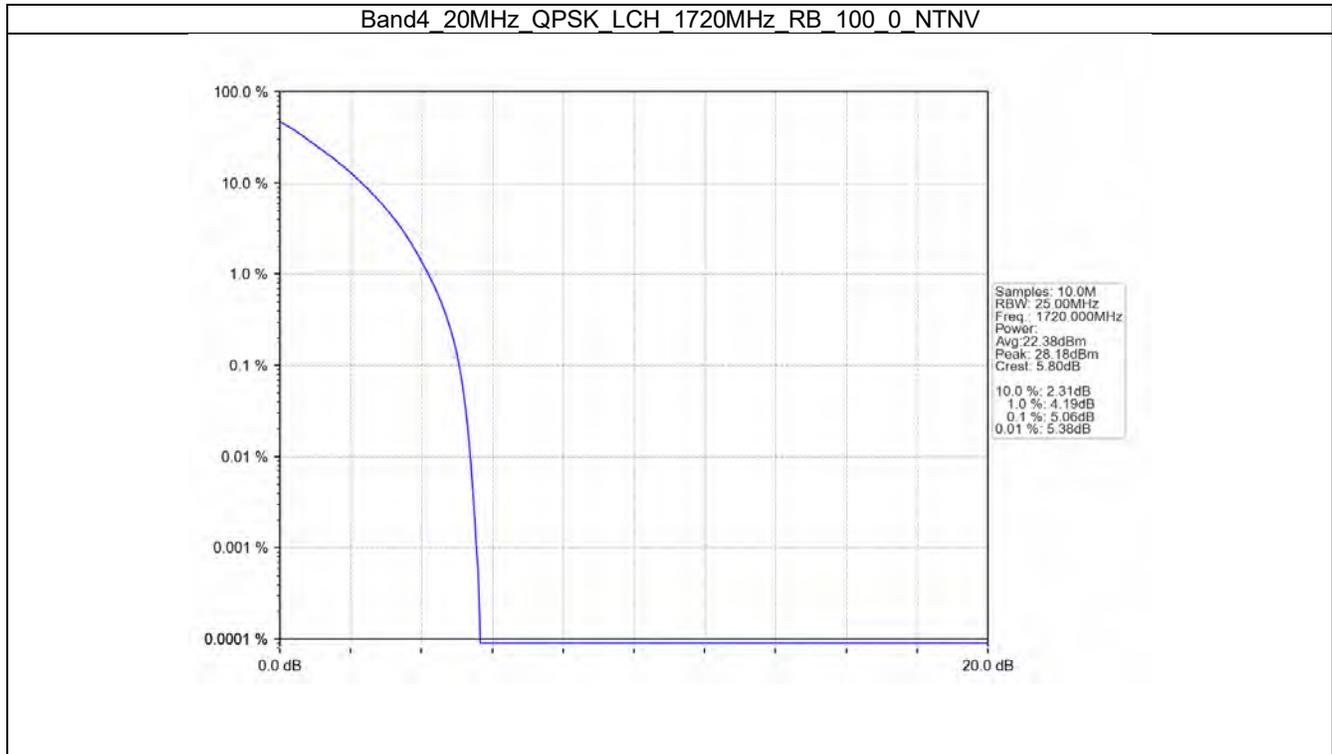


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4.6.2 Test Graph



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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 196 of 395

Band4_20MHz_QPSK_MCH_1732.5MHz_RB_100_0_NTNV



Samples: 10.0M
 RBW: 25.00MHz
 Freq: 1732.500MHz
 Power:
 Avg: 21.74dBm
 Peak: 27.82dBm
 Crest: 6.08dB
 10.0%: 2.34dB
 1.0%: 4.40dB
 0.1%: 5.37dB
 0.01%: 5.69dB

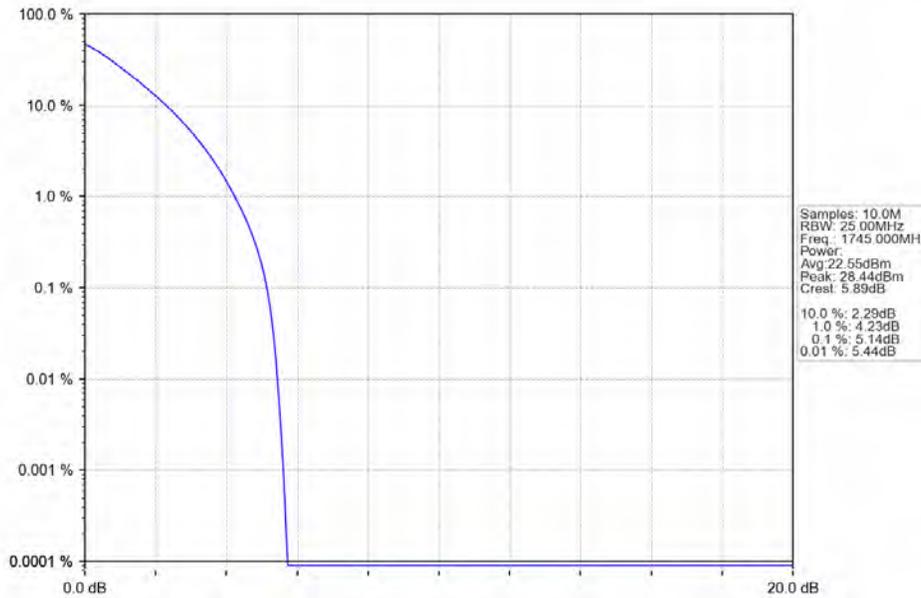


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Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



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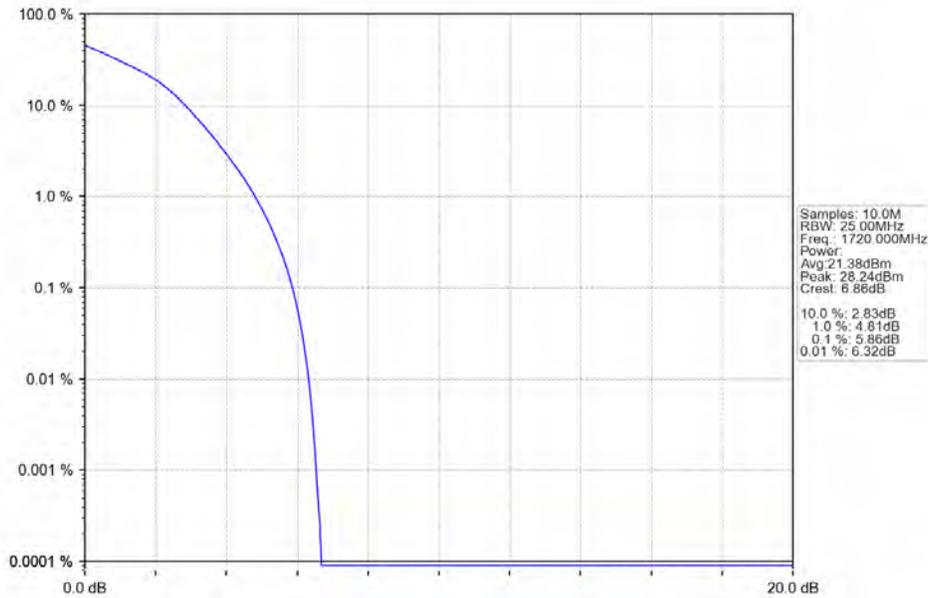
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Rev.: 01

Page: 198 of 395

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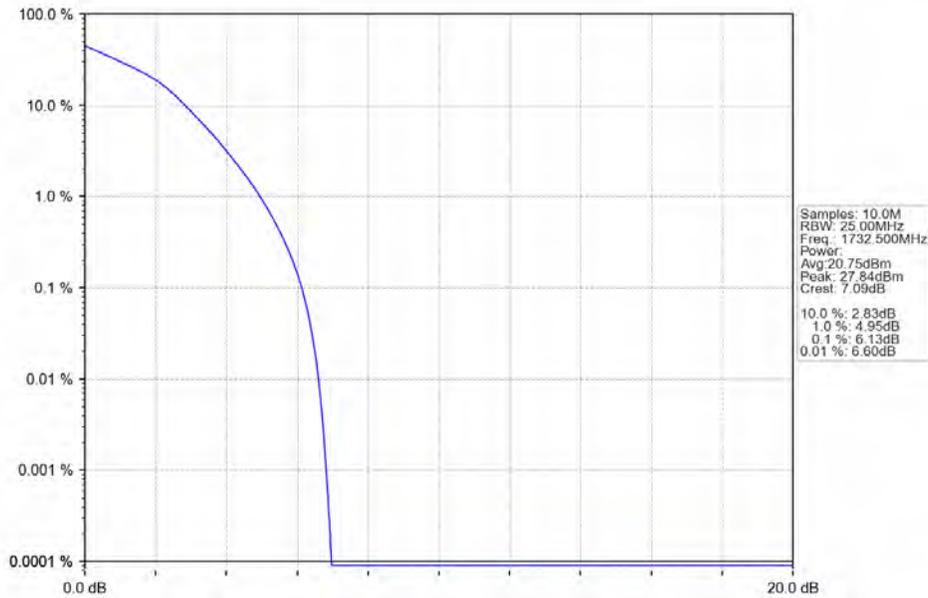
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Rev.: 01

Page: 199 of 395

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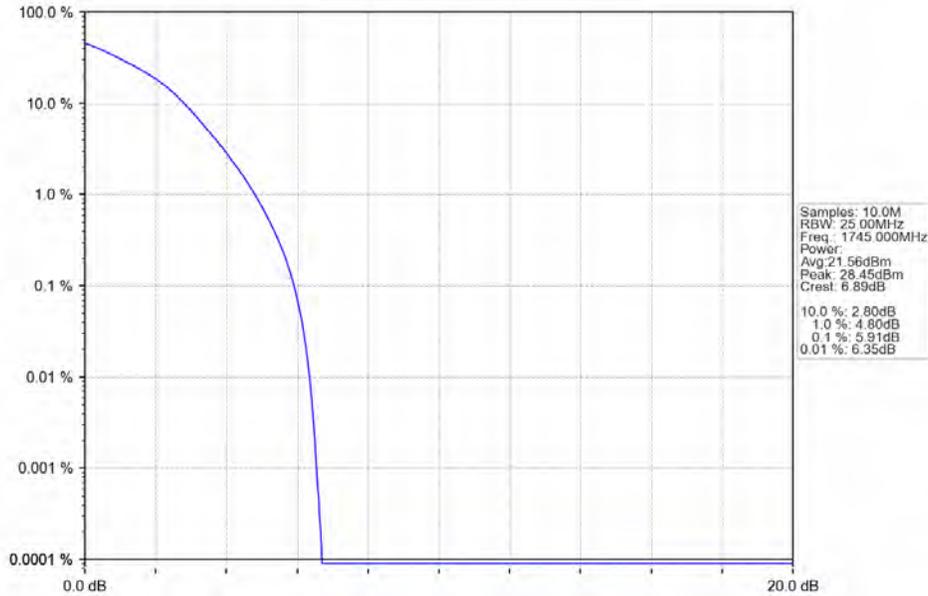


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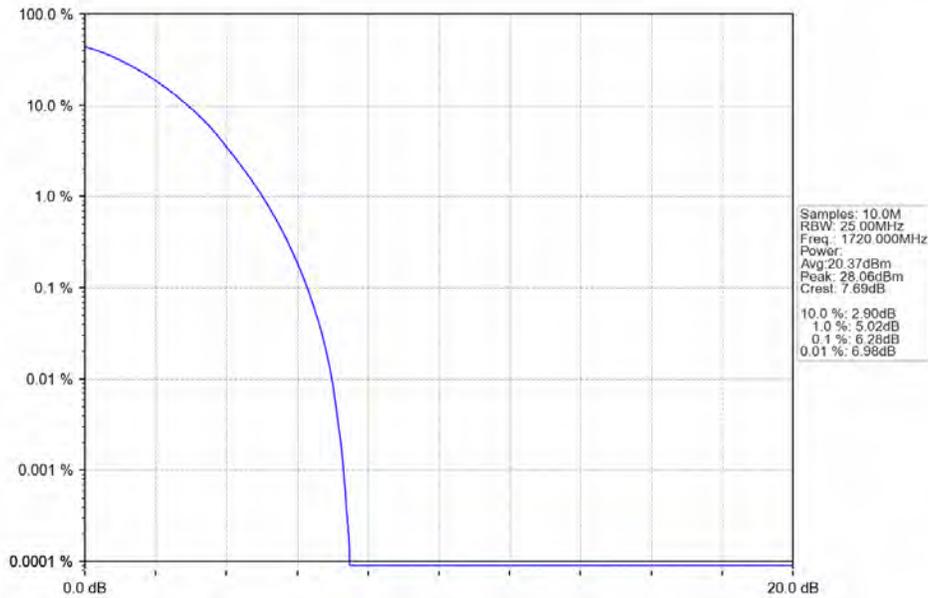


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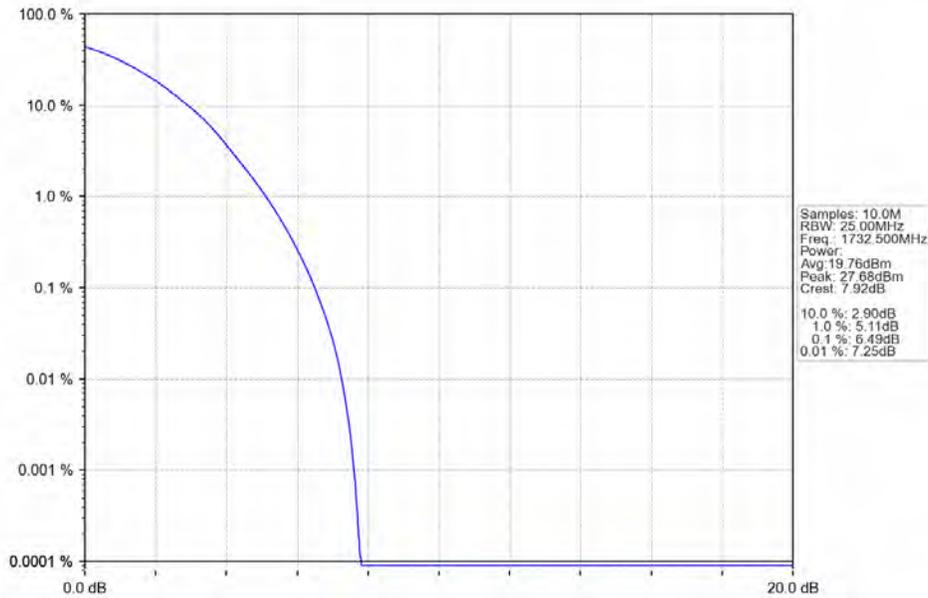


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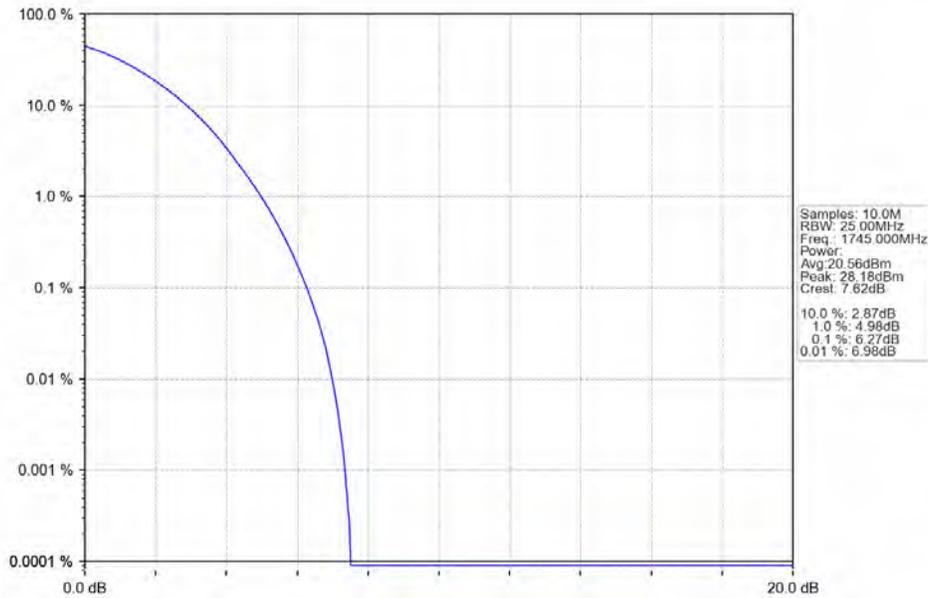
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Band4_20MHz_64QAM_HCH_1745MHz_RB_100_0_NTNV



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5. Spurious Emission

5.1 B4_1.4MHz

5.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		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
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
16QAM	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
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass
64QAM	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
		6	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
		6	5	Refer To Test Graph		Pass

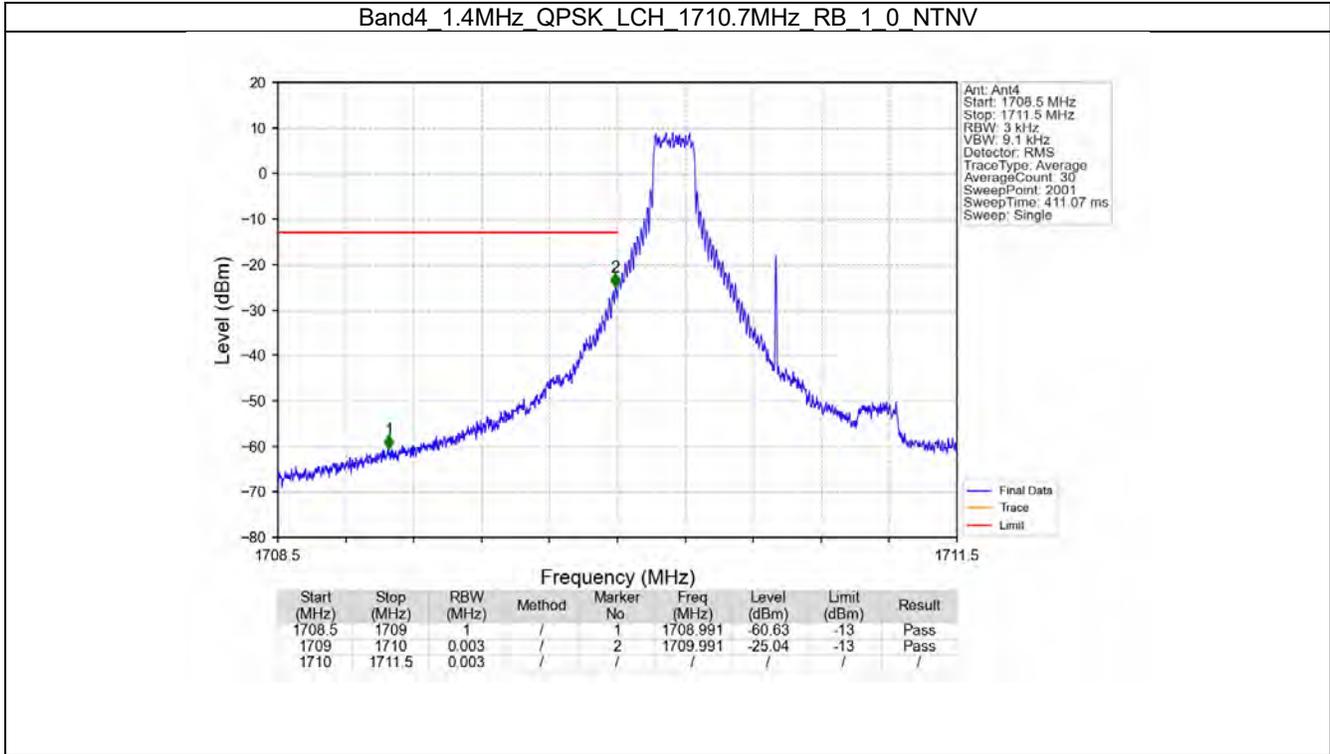


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5.1.2 Test Graph

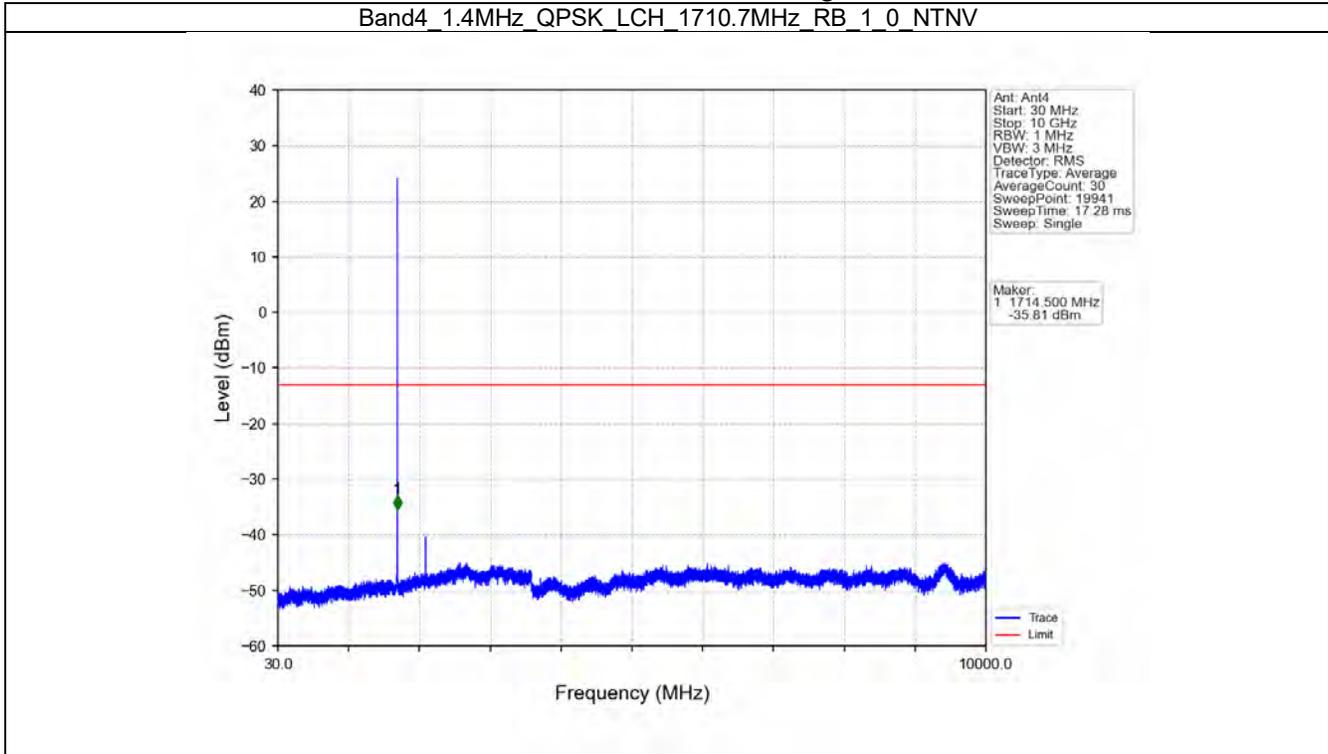


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Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_1_0_NTNV

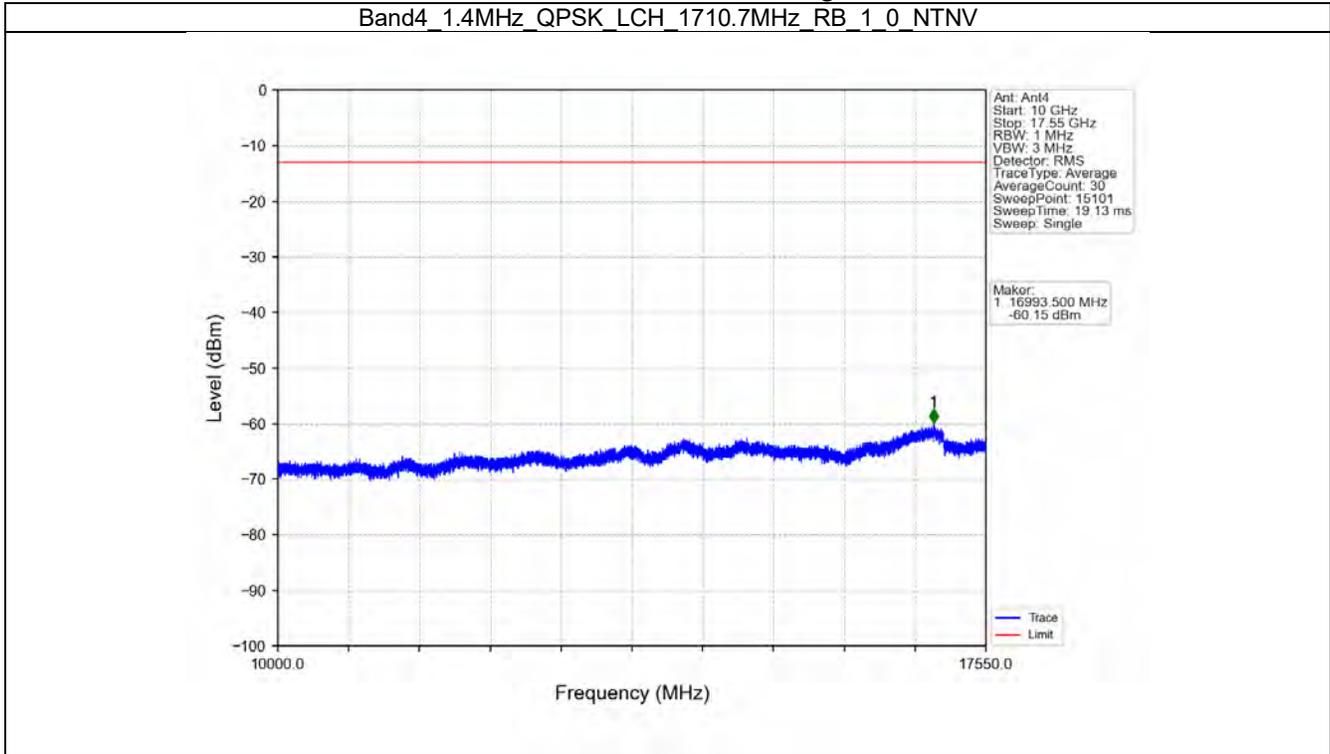


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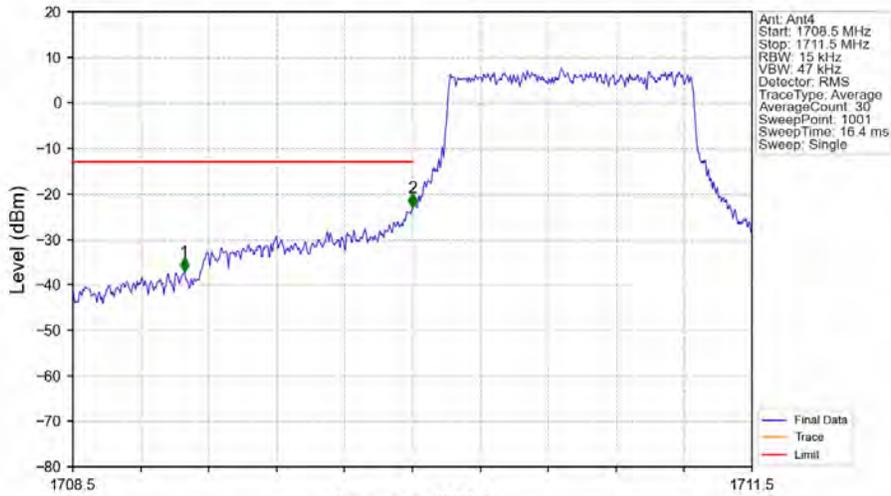
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Report No.: SEWM2311000454RG01

Rev.: 01

Page: 208 of 395

Band4_1.4MHz_QPSK_LCH_1710.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.992	-37.09	-13	Pass
1709	1710	0.015	/	2	1710.000	-22.99	-13	Pass
1710	1711.5	0.015	/	/	/	/	/	/



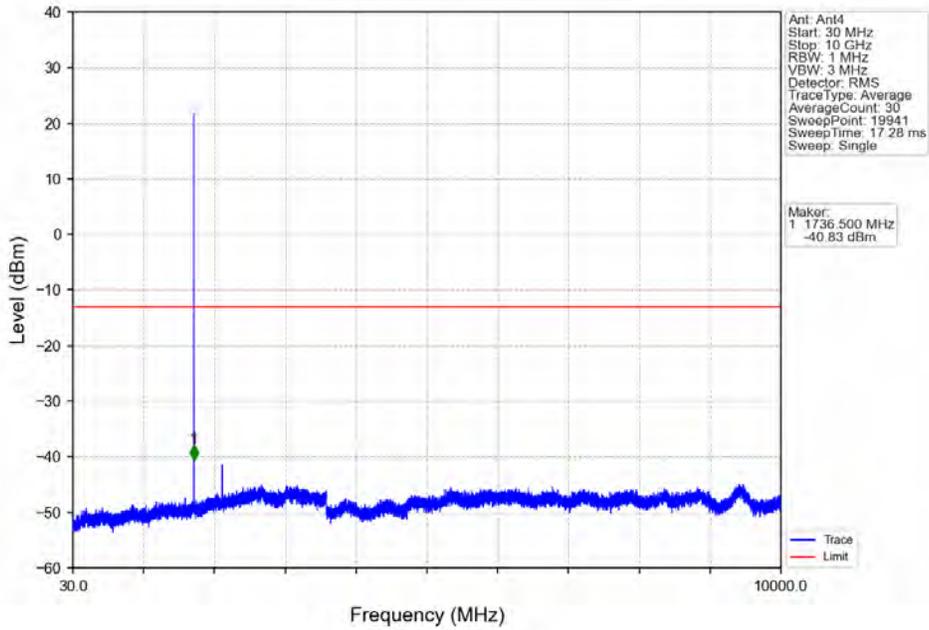
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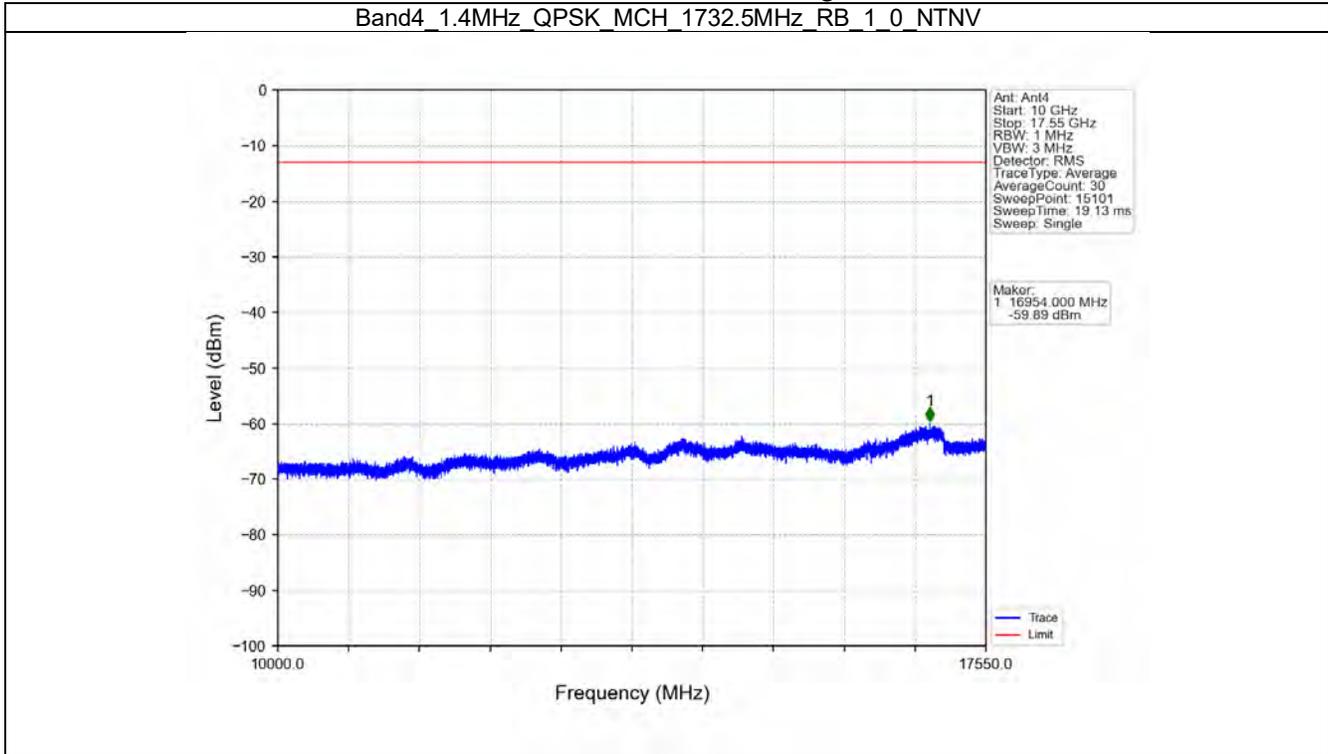


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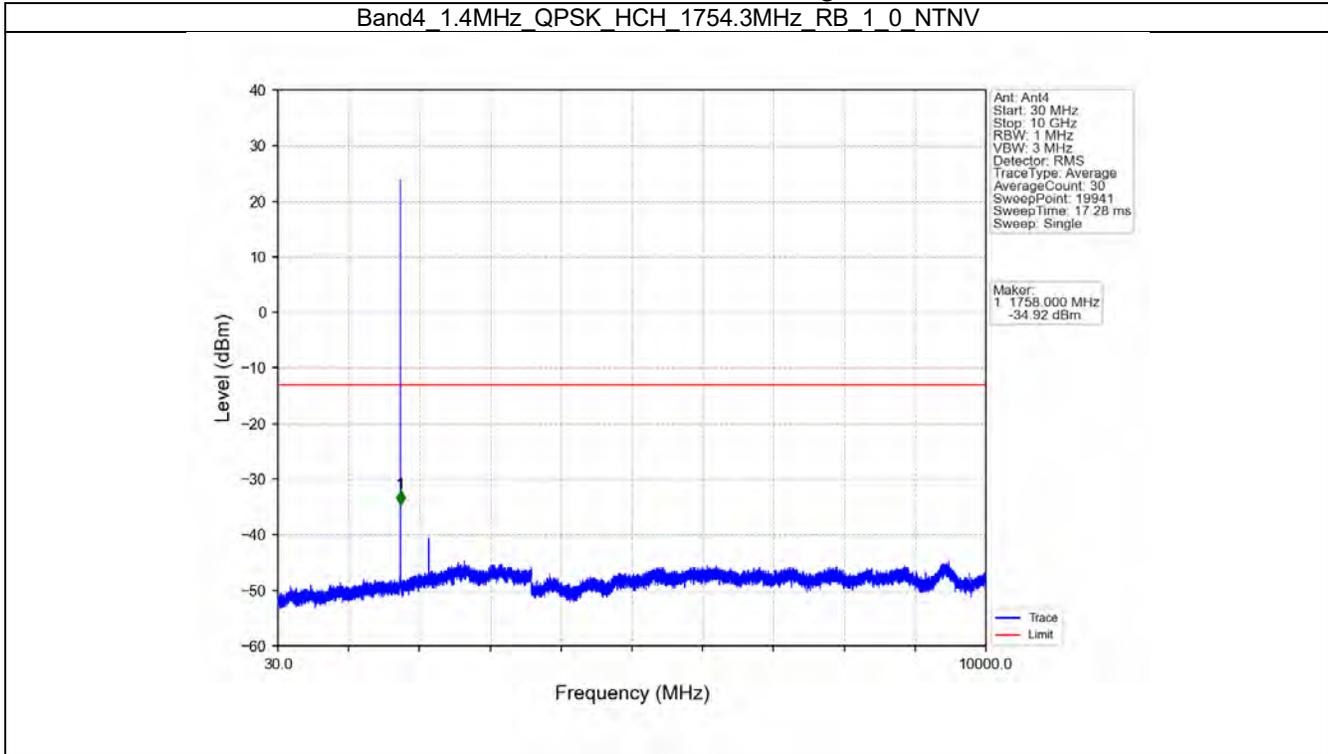
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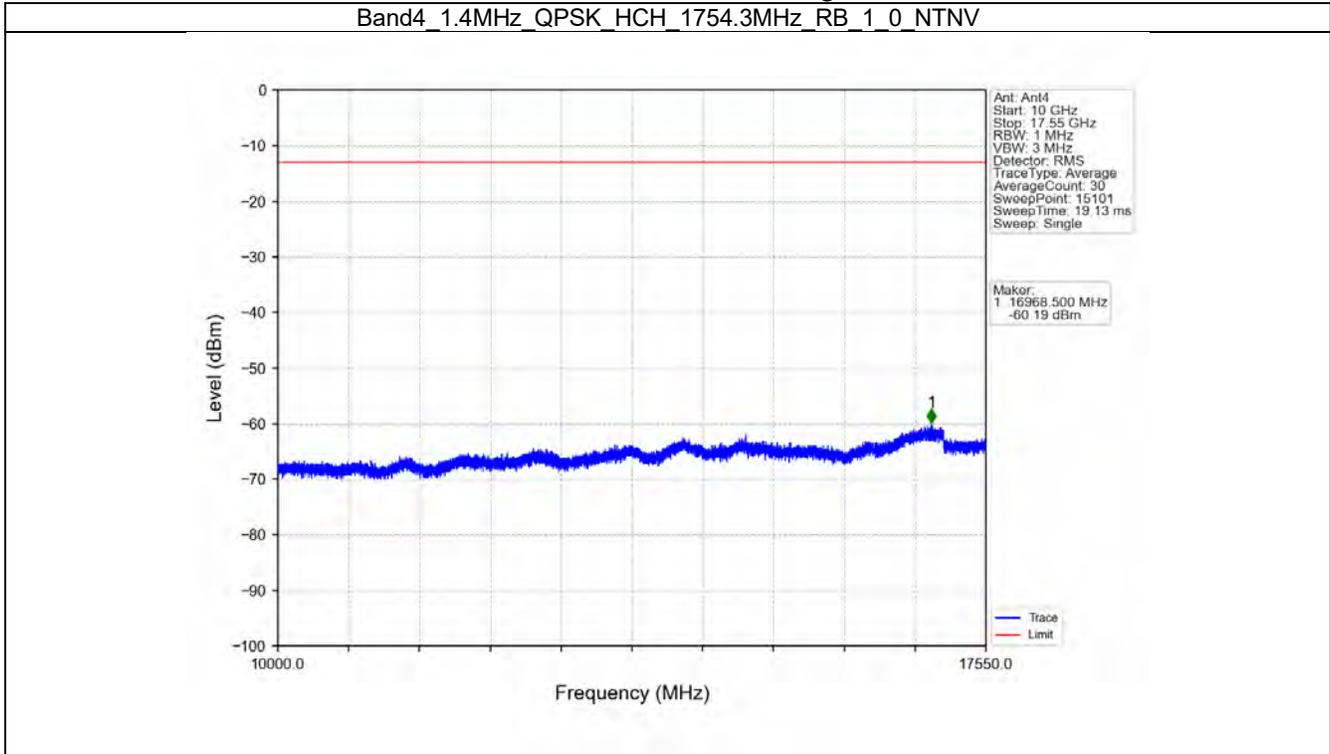


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