

# Appendix B.8

## LTE Band 48



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 B48\_5MHz\_EIRP

Modulation	Frequency (MHz)	Band: 48 / Bandwidth: 5MHz / NTV						Verdict	
		RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)			
		Size	Offset			Result	Limit		
QPSK	3552.5	1	0	24.00	6.05	30.05	/	Pass	
			13	23.78	6.05	29.83	/	Pass	
			24	23.79	6.05	29.84	/	Pass	
		12	0	22.82	6.05	28.87	/	Pass	
			6	22.85	6.05	28.90	/	Pass	
			13	22.83	6.05	28.88	/	Pass	
	3625	1	0	22.82	6.05	28.87	/	Pass	
			0	24.42	6.05	30.47	/	Pass	
			13	24.50	6.05	30.55	/	Pass	
		12	24	24.45	6.05	30.50	/	Pass	
			0	23.39	6.05	29.44	/	Pass	
			6	23.49	6.05	29.54	/	Pass	
16QAM	3697.5	1	13	23.49	6.05	29.54	/	Pass	
			25	0	23.38	6.05	29.43	/	Pass
		12	0	24.00	6.05	30.05	/	Pass	
			13	24.08	6.05	30.13	/	Pass	
			24	24.16	6.05	30.21	/	Pass	
	3552.5	1	0	23.02	6.05	29.07	/	Pass	
			13	23.00	6.05	29.05	/	Pass	
			25	0	23.09	6.05	29.14	/	Pass
		12	0	23.00	6.05	29.05	/	Pass	
			13	23.09	6.05	29.14	/	Pass	
			25	0	23.00	6.05	29.05	/	Pass

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3625	1	0	23.43	6.05	29.48	/	Pass
		13	23.51	6.05	29.56	/	Pass
		24	23.47	6.05	29.52	/	Pass
	12	0	22.43	6.05	28.48	/	Pass
		6	22.42	6.05	28.47	/	Pass
		13	22.43	6.05	28.48	/	Pass
	25	0	22.39	6.05	28.44	/	Pass
	1	0	22.96	6.05	29.01	/	Pass
		13	23.01	6.05	29.06	/	Pass
		24	23.07	6.05	29.12	/	Pass
	12	0	22.08	6.05	28.13	/	Pass
		6	22.05	6.05	28.10	/	Pass
		13	22.03	6.05	28.08	/	Pass
	25	0	21.97	6.05	28.02	/	Pass

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.2 B48\_5MHz\_EIRP/10MHz

Modulation	Frequency (MHz)	Band: 48 / Bandwidth: 5MHz / NTV						
		RB Allocation		Conducted Power (dBm/10MHz)	Gain (dBi)	EIRP/10MHz (dBm/10MHz)		Verdict
QPSK	3552.5	1	0	23.73	6.05	29.78	<=47	Pass
			13	18.43	6.05	24.48	<=47	Pass
			24	23.01	6.05	29.06	<=47	Pass
		12	0	22.06	6.05	28.11	<=47	Pass
			6	21.82	6.05	27.87	<=47	Pass
			13	21.94	6.05	27.99	<=47	Pass
	3625	1	0	21.78	6.05	27.83	<=47	Pass
			0	22.91	6.05	28.96	<=47	Pass
			13	23.13	6.05	29.18	<=47	Pass
		12	0	22.07	6.05	28.12	<=47	Pass
			6	22.11	6.05	28.16	<=47	Pass
			13	22.17	6.05	28.22	<=47	Pass
		25	0	22.10	6.05	28.15	<=47	Pass
	3697.5	1	0	23.23	6.05	29.28	<=47	Pass
			13	23.52	6.05	29.57	<=47	Pass
			24	23.14	6.05	29.19	<=47	Pass

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		12	0	21.96	6.05	28.01	<=47	Pass
			6	22.39	6.05	28.44	<=47	Pass
			13	22.15	6.05	28.20	<=47	Pass
			25	0	22.28	6.05	28.33	<=47
16QAM	3552.5	1	0	21.82	6.05	27.87	<=47	Pass
			13	21.83	6.05	27.88	<=47	Pass
			24	21.85	6.05	27.90	<=47	Pass
		12	0	21.08	6.05	27.13	<=47	Pass
			6	21.20	6.05	27.25	<=47	Pass
			13	20.91	6.05	26.96	<=47	Pass
	3625	1	0	20.96	6.05	27.01	<=47	Pass
			0	22.01	6.05	28.06	<=47	Pass
			13	22.33	6.05	28.38	<=47	Pass
		12	0	21.29	6.05	27.34	<=47	Pass
			6	21.27	6.05	27.32	<=47	Pass
			13	21.58	6.05	27.63	<=47	Pass
		25	0	20.97	6.05	27.02	<=47	Pass
	3697.5	1	0	22.52	6.05	28.57	<=47	Pass
			13	22.37	6.05	28.42	<=47	Pass
			24	22.28	6.05	28.33	<=47	Pass
		12	0	21.27	6.05	27.32	<=47	Pass
			6	21.53	6.05	27.58	<=47	Pass
			13	21.21	6.05	27.26	<=47	Pass
		25	0	20.94	6.05	26.99	<=47	Pass

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

### 1.1.3 B48\_5MHz\_E.I.R.PSD

Band: 48 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/MHz)	Gain (dBi)	E.I.R.PSD (dBm/MHz)	Verdict	
		Size	Offset					
QPSK	3552.5	1	0	21.34	6.05	27.39	<=37	Pass
			13	21.47	6.05	27.52	<=37	Pass
			24	20.79	6.05	26.84	<=37	Pass
		12	0	9.87	6.05	15.92	<=37	Pass
			6	9.21	6.05	15.26	<=37	Pass
			13	9.49	6.05	15.54	<=37	Pass



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		25	0	6.63	6.05	12.68	<=37	Pass
3625	3625	1	0	19.90	6.05	25.95	<=37	Pass
		13	20.27	6.05	26.32	<=37	Pass	
		24	20.85	6.05	26.90	<=37	Pass	
		12	0	9.62	6.05	15.67	<=37	Pass
		6	9.97	6.05	16.02	<=37	Pass	
		13	9.73	6.05	15.78	<=37	Pass	
		25	0	6.87	6.05	12.92	<=37	Pass
3697.5	3697.5	0	20.58	6.05	26.63	<=37	Pass	
		1	13	20.78	6.05	26.83	<=37	Pass
		24	20.69	6.05	26.74	<=37	Pass	
		12	0	9.72	6.05	15.77	<=37	Pass
		6	9.77	6.05	15.82	<=37	Pass	
		13	9.92	6.05	15.97	<=37	Pass	
		25	0	7.06	6.05	13.11	<=37	Pass
16QAM	3552.5	0	19.21	6.05	25.26	<=37	Pass	
		1	13	19.17	6.05	25.22	<=37	Pass
		24	19.23	6.05	25.28	<=37	Pass	
		12	0	9.07	6.05	15.12	<=37	Pass
		6	8.46	6.05	14.51	<=37	Pass	
		13	8.43	6.05	14.48	<=37	Pass	
		25	0	5.54	6.05	11.59	<=37	Pass
	3625	0	19.72	6.05	25.77	<=37	Pass	
		1	13	20.09	6.05	26.14	<=37	Pass
		24	20.19	6.05	26.24	<=37	Pass	
		12	0	9.00	6.05	15.05	<=37	Pass
		6	8.99	6.05	15.04	<=37	Pass	
		13	8.88	6.05	14.93	<=37	Pass	
		25	0	5.54	6.05	11.59	<=37	Pass
	3697.5	0	19.38	6.05	25.43	<=37	Pass	
		1	13	20.02	6.05	26.07	<=37	Pass
		24	20.04	6.05	26.09	<=37	Pass	
		0	9.07	6.05	15.12	<=37	Pass	
		12	6	8.52	6.05	14.57	<=37	Pass
		13	8.78	6.05	14.83	<=37	Pass	
		25	0	5.95	6.05	12.00	<=37	Pass

Note1: E.I.R.PSD=Conducted Power+Antenna Gain



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**1.1.4 B48\_10MHz\_EIRP**

Band: 48 / Bandwidth: 10MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	3555	1	0	23.77	6.05	29.82	/	Pass	
			25	23.82	6.05	29.87	/	Pass	
			49	23.82	6.05	29.87	/	Pass	
		25	0	22.89	6.05	28.94	/	Pass	
			13	22.86	6.05	28.91	/	Pass	
	3625		25	22.86	6.05	28.91	/	Pass	
	1	50	0	22.87	6.05	28.92	/	Pass	
		0	24.49	6.05	30.54	/	Pass		
		25	24.47	6.05	30.52	/	Pass		
		49	24.39	6.05	30.44	/	Pass		
16QAM	3695	1	0	23.38	6.05	29.43	/	Pass	
			25	23.39	6.05	29.44	/	Pass	
			25	23.52	6.05	29.57	/	Pass	
		25	50	0	23.43	6.05	29.48	/	Pass
			0	24.00	6.05	30.05	/	Pass	
			25	24.10	6.05	30.15	/	Pass	
	3555	1	49	24.04	6.05	30.09	/	Pass	
			0	23.00	6.05	29.05	/	Pass	
			25	22.98	6.05	29.03	/	Pass	
		25	25	23.08	6.05	29.13	/	Pass	
			50	0	22.99	6.05	29.04	/	Pass
16QAM	3625	1	0	22.86	6.05	28.91	/	Pass	
			25	22.80	6.05	28.85	/	Pass	
			49	22.78	6.05	28.83	/	Pass	
		25	0	21.89	6.05	27.94	/	Pass	
			13	21.87	6.05	27.92	/	Pass	
			25	21.90	6.05	27.95	/	Pass	
		50	0	21.90	6.05	27.95	/	Pass	
	3625	1	0	23.37	6.05	29.42	/	Pass	
			25	23.41	6.05	29.46	/	Pass	
			49	23.38	6.05	29.43	/	Pass	
		25	0	22.38	6.05	28.43	/	Pass	
			13	22.40	6.05	28.45	/	Pass	

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3695		25	22.46	6.05	28.51	/	Pass
		50	0	6.05	28.44	/	Pass
	1	0	22.92	6.05	28.97	/	Pass
		25	23.04	6.05	29.09	/	Pass
		49	23.01	6.05	29.06	/	Pass
		0	21.93	6.05	27.98	/	Pass
	25	13	22.02	6.05	28.07	/	Pass
		25	22.08	6.05	28.13	/	Pass
		50	0	6.05	28.03	/	Pass

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.5 B48\_10MHz\_EIRP/10MHz

Band: 48 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/10MHz)	Gain (dBi)	EIRP/10MHz (dBm/10MHz)	Verdict	
		Size	Offset			Result		
QPSK	3555	1	0	24.03	6.05	30.08	<=47 Pass	
			25	22.90	6.05	28.95	<=47 Pass	
			49	22.92	6.05	28.97	<=47 Pass	
		25	0	22.10	6.05	28.15	<=47 Pass	
			13	21.99	6.05	28.04	<=47 Pass	
	3625		25	22.04	6.05	28.09	<=47 Pass	
			50	0	21.98	6.05	28.03 <=47 Pass	
	1	0	23.91	6.05	29.96	<=47 Pass		
		25	24.11	6.05	30.16	<=47 Pass		
		49	24.21	6.05	30.26	<=47 Pass		
	3695	25	0	22.83	6.05	28.88	<=47 Pass	
			13	22.97	6.05	29.02	<=47 Pass	
			25	23.25	6.05	29.30	<=47 Pass	
			50	0	23.10	6.05	29.15 <=47 Pass	
		1	0	24.06	6.05	30.11	<=47 Pass	
			25	24.11	6.05	30.16	<=47 Pass	
			49	24.06	6.05	30.11	<=47 Pass	
		25	0	22.86	6.05	28.91	<=47 Pass	
			13	22.97	6.05	29.02	<=47 Pass	
			25	23.17	6.05	29.22	<=47 Pass	
		50	0	22.87	6.05	28.92	<=47 Pass	
16QAM	3555	1	0	22.25	6.05	28.30	<=47 Pass	

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	3625	25	25	21.94	6.05	27.99	<=47	Pass
			49	21.87	6.05	27.92	<=47	Pass
		25	0	20.96	6.05	27.01	<=47	Pass
			13	21.05	6.05	27.10	<=47	Pass
			25	20.96	6.05	27.01	<=47	Pass
		50	0	21.00	6.05	27.05	<=47	Pass
		1	0	22.97	6.05	29.02	<=47	Pass
			25	22.98	6.05	29.03	<=47	Pass
			49	23.22	6.05	29.27	<=47	Pass
		25	0	21.94	6.05	27.99	<=47	Pass
			13	21.92	6.05	27.97	<=47	Pass
			25	22.07	6.05	28.12	<=47	Pass
		50	0	22.01	6.05	28.06	<=47	Pass
	3695	1	0	23.46	6.05	29.51	<=47	Pass
			25	23.13	6.05	29.18	<=47	Pass
			49	22.95	6.05	29.00	<=47	Pass
		25	0	22.02	6.05	28.07	<=47	Pass
			13	21.94	6.05	27.99	<=47	Pass
			25	22.07	6.05	28.12	<=47	Pass
		50	0	21.89	6.05	27.94	<=47	Pass

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

### 1.1.6 B48\_10MHz\_E.I.R.PSD

Band: 48 / Bandwidth: 10MHz / NNTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/MHz)	Gain (dBi)	E.I.R.PSD (dBm/MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	3555	1	0	18.79	6.05	24.84	<=37	Pass
			25	23.54	6.05	29.59	<=37	Pass
			49	23.32	6.05	29.37	<=37	Pass
		25	0	16.34	6.05	22.39	<=37	Pass
			13	16.24	6.05	22.29	<=37	Pass
			25	15.91	6.05	21.96	<=37	Pass
		50	0	13.31	6.05	19.36	<=37	Pass
	3625	1	0	24.11	6.05	30.16	<=37	Pass
			25	24.28	6.05	30.33	<=37	Pass
			49	24.13	6.05	30.18	<=37	Pass
		25	0	17.09	6.05	23.14	<=37	Pass



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	3695		13	17.35	6.05	23.40	<=37	Pass
			25	17.39	6.05	23.44	<=37	Pass
		50	0	14.31	6.05	20.36	<=37	Pass
		1	0	24.48	6.05	30.53	<=37	Pass
			25	24.48	6.05	30.53	<=37	Pass
			49	24.04	6.05	30.09	<=37	Pass
			0	17.22	6.05	23.27	<=37	Pass
			25	17.20	6.05	23.25	<=37	Pass
			25	17.13	6.05	23.18	<=37	Pass
			50	0	14.35	6.05	20.40	<=37
16QAM	3555	1	0	22.23	6.05	28.28	<=37	Pass
			25	22.43	6.05	28.48	<=37	Pass
			49	22.41	6.05	28.46	<=37	Pass
		25	0	15.29	6.05	21.34	<=37	Pass
			13	15.18	6.05	21.23	<=37	Pass
			25	15.22	6.05	21.27	<=37	Pass
	3625	50	0	12.21	6.05	18.26	<=37	Pass
		1	0	23.38	6.05	29.43	<=37	Pass
			25	23.56	6.05	29.61	<=37	Pass
			49	23.59	6.05	29.64	<=37	Pass
		25	0	16.01	6.05	22.06	<=37	Pass
			13	16.26	6.05	22.31	<=37	Pass
			25	16.24	6.05	22.29	<=37	Pass
	3695	50	0	13.25	6.05	19.30	<=37	Pass
		1	0	23.61	6.05	29.66	<=37	Pass
			25	23.44	6.05	29.49	<=37	Pass
			49	23.05	6.05	29.10	<=37	Pass
		25	0	16.18	6.05	22.23	<=37	Pass
			13	16.20	6.05	22.25	<=37	Pass
			25	16.32	6.05	22.37	<=37	Pass
		50	0	13.37	6.05	19.42	<=37	Pass

Note1: E.I.R.PSD=Conducted Power+Antenna Gain

### 1.1.7 B48\_15MHz\_EIRP

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	



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QPSK	3557.5	1	0	23.55	6.05	29.60	/	Pass
			38	23.61	6.05	29.66	/	Pass
			74	23.73	6.05	29.78	/	Pass
		36	0	22.63	6.05	28.68	/	Pass
			18	22.73	6.05	28.78	/	Pass
			39	22.79	6.05	28.84	/	Pass
		75	0	22.74	6.05	28.79	/	Pass
	3625	1	0	24.10	6.05	30.15	/	Pass
			38	24.29	6.05	30.34	/	Pass
			74	24.20	6.05	30.25	/	Pass
		36	0	23.22	6.05	29.27	/	Pass
			18	23.27	6.05	29.32	/	Pass
			39	23.35	6.05	29.40	/	Pass
		75	0	23.23	6.05	29.28	/	Pass
	3692.5	1	0	23.82	6.05	29.87	/	Pass
			38	23.86	6.05	29.91	/	Pass
			74	23.88	6.05	29.93	/	Pass
		36	0	22.84	6.05	28.89	/	Pass
			18	22.84	6.05	28.89	/	Pass
			39	22.96	6.05	29.01	/	Pass
		75	0	22.87	6.05	28.92	/	Pass
		3557.5	0	22.61	6.05	28.66	/	Pass
			38	22.76	6.05	28.81	/	Pass
			74	22.71	6.05	28.76	/	Pass
			0	21.64	6.05	27.69	/	Pass
			36	21.68	6.05	27.73	/	Pass
			39	21.79	6.05	27.84	/	Pass
		75	0	21.77	6.05	27.82	/	Pass
	16QAM	1	0	23.25	6.05	29.30	/	Pass
			38	23.34	6.05	29.39	/	Pass
			74	23.24	6.05	29.29	/	Pass
		36	0	22.22	6.05	28.27	/	Pass
			18	22.27	6.05	28.32	/	Pass
			39	22.35	6.05	28.40	/	Pass
		75	0	22.25	6.05	28.30	/	Pass
		1	0	22.80	6.05	28.85	/	Pass
			38	22.94	6.05	28.99	/	Pass

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		74	22.95	6.05	29.00	/	Pass
36	36	0	21.84	6.05	27.89	/	Pass
		18	21.82	6.05	27.87	/	Pass
		39	21.94	6.05	27.99	/	Pass
		75	0	21.81	6.05	27.86	/

Note1: EIRP=Conducted Power+Antenna Gain

### 1.1.8 B48\_15MHz\_EIRP/10MHz

Band: 48 / Bandwidth: 15MHz / NNTV							
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/10MHz)	Gain (dBi)	EIRP/10MHz (dBm/10MHz)	Verdict
		Size	Offset			Result	
QPSK	3557.5	1	0	23.62	6.05	29.67	<=47 Pass
			38	22.70	6.05	28.75	<=47 Pass
			74	22.59	6.05	28.64	<=47 Pass
		36	0	21.77	6.05	27.82	<=47 Pass
			18	21.73	6.05	27.78	<=47 Pass
			39	21.69	6.05	27.74	<=47 Pass
	3625	1	0	20.31	6.05	26.36	<=47 Pass
			0	-29.67	6.05	-23.62	<=47 Pass
			38	23.91	6.05	29.96	<=47 Pass
		36	74	24.24	6.05	30.29	<=47 Pass
			0	22.78	6.05	28.83	<=47 Pass
			18	22.90	6.05	28.95	<=47 Pass
16QAM	3692.5	1	39	23.17	6.05	29.22	<=47 Pass
			75	0	21.64	6.05	27.69
		1	0	16.32	6.05	22.37	<=47 Pass
			38	23.80	6.05	29.85	<=47 Pass
			74	23.97	6.05	30.02	<=47 Pass
	3557.5	36	0	23.02	6.05	29.07	<=47 Pass
			18	23.02	6.05	29.07	<=47 Pass
			39	23.21	6.05	29.26	<=47 Pass
		75	0	21.67	6.05	27.72	<=47 Pass
			0	21.80	6.05	27.85	<=47 Pass
			38	21.71	6.05	27.76	<=47 Pass
		1	74	21.61	6.05	27.66	<=47 Pass
			0	20.65	6.05	26.70	<=47 Pass
		36	18	20.76	6.05	26.81	<=47 Pass

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		39	20.61	6.05	26.66	<=47	Pass
		75	0	6.05	25.34	<=47	Pass
		1	0	6.05	28.48	<=47	Pass
	3625	38	23.31	6.05	29.36	<=47	Pass
		74	22.77	6.05	28.82	<=47	Pass
		36	0	6.05	27.86	<=47	Pass
	3692.5	18	21.82	6.05	27.87	<=47	Pass
		39	22.16	6.05	28.21	<=47	Pass
		75	0	6.05	26.69	<=47	Pass
	3692.5	0	23.43	6.05	29.48	<=47	Pass
		1	38	6.05	29.05	<=47	Pass
		74	22.96	6.05	29.01	<=47	Pass
	36	0	22.24	6.05	28.29	<=47	Pass
		18	22.26	6.05	28.31	<=47	Pass
		39	22.05	6.05	28.10	<=47	Pass
	75	0	20.56	6.05	26.61	<=47	Pass

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

### 1.1.9 B48\_15MHz\_E.I.R.PSD

Band: 48 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/MHz)	Gain (dBi)	E.I.R.PSD (dBm/MHz)	Verdict	
		Size	Offset			Result		
QPSK	3557.5	1	0	18.50	6.05	24.55	<=37	Pass
			38	22.40	6.05	28.45	<=37	Pass
			74	23.03	6.05	29.08	<=37	Pass
		36	0	14.37	6.05	20.42	<=37	Pass
			18	14.32	6.05	20.37	<=37	Pass
			39	14.47	6.05	20.52	<=37	Pass
		75	0	11.39	6.05	17.44	<=37	Pass
	3625	1	0	20.08	6.05	26.13	<=37	Pass
			38	24.17	6.05	30.22	<=37	Pass
			74	24.48	6.05	30.53	<=37	Pass
		36	0	15.39	6.05	21.44	<=37	Pass
			18	15.48	6.05	21.53	<=37	Pass
			39	15.64	6.05	21.69	<=37	Pass
		75	0	12.70	6.05	18.75	<=37	Pass
	3692.5	1	0	23.95	6.05	30.00	<=37	Pass



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			38	24.25	6.05	30.30	<=37	Pass	
			74	24.10	6.05	30.15	<=37	Pass	
		36	0	15.61	6.05	21.66	<=37	Pass	
			18	15.69	6.05	21.74	<=37	Pass	
			39	15.78	6.05	21.83	<=37	Pass	
		75	0	12.56	6.05	18.61	<=37	Pass	
16QAM	3557.5	1	0	21.97	6.05	28.02	<=37	Pass	
			38	21.89	6.05	27.94	<=37	Pass	
			74	21.63	6.05	27.68	<=37	Pass	
		36	0	13.43	6.05	19.48	<=37	Pass	
			18	13.23	6.05	19.28	<=37	Pass	
			39	13.38	6.05	19.43	<=37	Pass	
	3625	1	0	10.47	6.05	16.52	<=37	Pass	
			38	22.61	6.05	28.66	<=37	Pass	
			74	23.12	6.05	29.17	<=37	Pass	
		36	0	23.42	6.05	29.47	<=37	Pass	
			18	14.50	6.05	20.55	<=37	Pass	
			39	14.54	6.05	20.59	<=37	Pass	
	3692.5	1	0	14.71	6.05	20.76	<=37	Pass	
			75	0	11.43	6.05	17.48	<=37	Pass
			0	23.05	6.05	29.10	<=37	Pass	
		36	38	23.04	6.05	29.09	<=37	Pass	
			74	23.38	6.05	29.43	<=37	Pass	
			0	14.63	6.05	20.68	<=37	Pass	
		36	18	14.51	6.05	20.56	<=37	Pass	
			39	14.62	6.05	20.67	<=37	Pass	
			75	0	11.45	6.05	17.50	<=37	Pass

Note1: E.I.R.PSD=Conducted Power+Antenna Gain

### 1.1.10 B48\_20MHz\_EIRP

Band: 48 / Bandwidth: 20MHz / NNTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	3560	1	0	23.74	6.05	29.79	/	Pass
			50	23.74	6.05	29.79	/	Pass
			99	23.85	6.05	29.90	/	Pass
		50	0	22.68	6.05	28.73	/	Pass



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	3625		25	22.85	6.05	28.90	/	Pass
			50	22.88	6.05	28.93	/	Pass
			100	0	22.83	6.05	28.88	/
		1	0	24.28	6.05	30.33	/	Pass
			50	24.33	6.05	30.38	/	Pass
			99	24.22	6.05	30.27	/	Pass
			0	23.30	6.05	29.35	/	Pass
		50	25	23.34	6.05	29.39	/	Pass
			50	23.38	6.05	29.43	/	Pass
			100	0	23.30	6.05	29.35	/
	3690	1	0	23.90	6.05	29.95	/	Pass
			50	23.87	6.05	29.92	/	Pass
			99	23.84	6.05	29.89	/	Pass
		50	0	22.86	6.05	28.91	/	Pass
			25	22.93	6.05	28.98	/	Pass
			50	22.91	6.05	28.96	/	Pass
			100	0	22.95	6.05	29.00	/
		1	0	22.53	6.05	28.58	/	Pass
			50	22.72	6.05	28.77	/	Pass
			99	22.79	6.05	28.84	/	Pass
			0	21.68	6.05	27.73	/	Pass
		50	25	21.83	6.05	27.88	/	Pass
			50	21.84	6.05	27.89	/	Pass
			100	0	21.84	6.05	27.89	/
	3560	1	0	23.29	6.05	29.34	/	Pass
			50	23.40	6.05	29.45	/	Pass
			99	23.15	6.05	29.20	/	Pass
		50	0	22.30	6.05	28.35	/	Pass
			25	22.32	6.05	28.37	/	Pass
			50	22.37	6.05	28.42	/	Pass
			100	0	22.30	6.05	28.35	/
		1	0	22.93	6.05	28.98	/	Pass
			50	22.89	6.05	28.94	/	Pass
			99	23.02	6.05	29.07	/	Pass
		50	0	21.82	6.05	27.87	/	Pass
			25	21.97	6.05	28.02	/	Pass
			50	21.90	6.05	27.95	/	Pass



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		100	0	21.88	6.05	27.93	/	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

**1.1.11 B48\_20MHz\_EIRP/10MHz**

Band: 48 / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/10MHz)	Gain (dBi)	EIRP/10MHz (dBm/10MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	3560	1	0	22.77	6.05	28.82	<=47	Pass
			50	22.78	6.05	28.83	<=47	Pass
			99	23.01	6.05	29.06	<=47	Pass
		50	0	21.62	6.05	27.67	<=47	Pass
			25	21.90	6.05	27.95	<=47	Pass
			50	21.58	6.05	27.63	<=47	Pass
	3625	1	0	19.19	6.05	25.24	<=47	Pass
			50	23.15	6.05	29.20	<=47	Pass
			99	22.93	6.05	28.98	<=47	Pass
		50	0	23.68	6.05	29.73	<=47	Pass
			25	22.10	6.05	28.15	<=47	Pass
16QAM	3690	1	50	22.24	6.05	28.29	<=47	Pass
			50	22.44	6.05	28.49	<=47	Pass
			100	0	19.71	6.05	25.76	<=47
		50	0	23.15	6.05	29.20	<=47	Pass
			50	23.39	6.05	29.44	<=47	Pass
			99	23.19	6.05	29.24	<=47	Pass
		100	0	22.30	6.05	28.35	<=47	Pass
			25	22.44	6.05	28.49	<=47	Pass
			50	22.42	6.05	28.47	<=47	Pass
		100	0	20.01	6.05	26.06	<=47	Pass
		1	0	21.78	6.05	27.83	<=47	Pass
			50	21.89	6.05	27.94	<=47	Pass
			99	21.86	6.05	27.91	<=47	Pass
	3625	50	0	20.57	6.05	26.62	<=47	Pass
			25	20.74	6.05	26.79	<=47	Pass
			50	20.77	6.05	26.82	<=47	Pass
		100	0	18.41	6.05	24.46	<=47	Pass
			0	21.63	6.05	27.68	<=47	Pass
		50	0	22.37	6.05	28.42	<=47	Pass



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	3690	99	22.30	6.05	28.35	<=47	Pass	
		0	21.09	6.05	27.14	<=47	Pass	
		50	21.23	6.05	27.28	<=47	Pass	
		25	21.49	6.05	27.54	<=47	Pass	
		100	0	18.73	6.05	24.78	<=47	Pass
		0	22.24	6.05	28.29	<=47	Pass	
		1	22.41	6.05	28.46	<=47	Pass	
		99	22.56	6.05	28.61	<=47	Pass	
		0	21.24	6.05	27.29	<=47	Pass	
		50	21.35	6.05	27.40	<=47	Pass	
		25	21.54	6.05	27.59	<=47	Pass	
		100	0	18.98	6.05	25.03	<=47	Pass

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

### 1.1.12 B48\_20MHz\_E.I.R.PSD

Band: 48 / Bandwidth: 20MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/MHz)	Gain (dBi)	E.I.R.PSD (dBm/MHz)	Verdict		
		Size	Offset			Result			
QPSK	3560	1	0	22.73	6.05	28.78	<=37	Pass	
			50	23.11	6.05	29.16	<=37	Pass	
			99	22.98	6.05	29.03	<=37	Pass	
		50	0	13.27	6.05	19.32	<=37	Pass	
			25	12.96	6.05	19.01	<=37	Pass	
	3625	1	50	13.06	6.05	19.11	<=37	Pass	
			100	0	10.01	6.05	16.06	<=37	Pass
			0	23.37	6.05	29.42	<=37	Pass	
		50	50	23.42	6.05	29.47	<=37	Pass	
			99	23.49	6.05	29.54	<=37	Pass	
	3690	1	0	13.40	6.05	19.45	<=37	Pass	
			25	13.40	6.05	19.45	<=37	Pass	
			50	13.83	6.05	19.88	<=37	Pass	
		50	100	0	10.84	6.05	16.89	<=37	Pass
			0	23.18	6.05	29.23	<=37	Pass	
			50	23.74	6.05	29.79	<=37	Pass	
		99	99	23.01	6.05	29.06	<=37	Pass	
			0	13.59	6.05	19.64	<=37	Pass	
		25	13.82	6.05	19.87	<=37	Pass		



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			50	13.70	6.05	19.75	<=37	Pass
		100	0	10.85	6.05	16.90	<=37	Pass
16QAM	3560	1	0	22.02	6.05	28.07	<=37	Pass
			50	22.14	6.05	28.19	<=37	Pass
			99	22.04	6.05	28.09	<=37	Pass
		50	0	12.10	6.05	18.15	<=37	Pass
			25	12.10	6.05	18.15	<=37	Pass
			50	12.01	6.05	18.06	<=37	Pass
		100	0	9.21	6.05	15.26	<=37	Pass
16QAM	3625	1	0	21.72	6.05	27.77	<=37	Pass
			50	22.28	6.05	28.33	<=37	Pass
			99	22.26	6.05	28.31	<=37	Pass
		50	0	12.37	6.05	18.42	<=37	Pass
			25	12.54	6.05	18.59	<=37	Pass
			50	12.69	6.05	18.74	<=37	Pass
		100	0	9.74	6.05	15.79	<=37	Pass
	3690	1	0	22.55	6.05	28.60	<=37	Pass
			50	22.77	6.05	28.82	<=37	Pass
			99	22.49	6.05	28.54	<=37	Pass
		50	0	12.72	6.05	18.77	<=37	Pass
			25	12.70	6.05	18.75	<=37	Pass
			50	13.07	6.05	19.12	<=37	Pass
			100	0	9.73	6.05	15.78	<=37

Note1: E.I.R.PSD=Conducted Power+Antenna Gain



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## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B48\_20MHz

Modulation	Frequency (MHz)	Band: 48 / Bandwidth: 20MHz						Verdict		
		RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)			
		Size	Offset				Result	Limit		
QPSK	3560	100	0	20	3.27	-6.108	-0.0017	-2.5 to 2.5	Pass	
					3.85	-4.950	-0.0014	-2.5 to 2.5	Pass	
					4.43	-2.918	-0.0008	-2.5 to 2.5	Pass	
					-30	3.85	-4.535	-0.0013	-2.5 to 2.5	Pass
					-20	3.85	1.101	0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass	
					0	3.85	-5.908	-0.0017	-2.5 to 2.5	Pass
					10	3.85	-0.501	-0.0001	-2.5 to 2.5	Pass
					30	3.85	-4.907	-0.0014	-2.5 to 2.5	Pass
					40	3.85	-1.016	-0.0003	-2.5 to 2.5	Pass
	3625	100	0	20	3.27	-3.448	-0.0010	-2.5 to 2.5	Pass	
					3.85	0.315	0.0001	-2.5 to 2.5	Pass	
					4.43	-3.433	-0.0009	-2.5 to 2.5	Pass	
				-30	3.85	-0.601	-0.0002	-2.5 to 2.5	Pass	
					-20	3.85	0.043	0.0000	-2.5 to 2.5	Pass
	3690	100	0	-10	3.85	-1.931	-0.0005	-2.5 to 2.5	Pass	
					0	3.85	-0.944	-0.0003	-2.5 to 2.5	Pass
					10	3.85	0.815	0.0002	-2.5 to 2.5	Pass
					30	3.85	-0.544	-0.0002	-2.5 to 2.5	Pass
					40	3.85	1.059	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.072	0.0000	-2.5 to 2.5	Pass	
					3.27	0.587	0.0002	-2.5 to 2.5	Pass	
					3.85	-0.644	-0.0002	-2.5 to 2.5	Pass	
					4.43	2.503	0.0007	-2.5 to 2.5	Pass	
					-30	3.85	1.431	0.0004	-2.5 to 2.5	Pass
				-20	3.85	1.345	0.0004	-2.5 to 2.5	Pass	



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				-10	3.85	1.016	0.0003	-2.5 to 2.5	Pass	
				0	3.85	-0.587	-0.0002	-2.5 to 2.5	Pass	
				10	3.85	-3.376	-0.0009	-2.5 to 2.5	Pass	
				30	3.85	1.488	0.0004	-2.5 to 2.5	Pass	
				40	3.85	-0.601	-0.0002	-2.5 to 2.5	Pass	
				50	3.85	1.788	0.0005	-2.5 to 2.5	Pass	
16QAM	3560	100	0	20	3.27	-2.947	-0.0008	-2.5 to 2.5	Pass	
					3.85	-0.114	0.0000	-2.5 to 2.5	Pass	
					4.43	-0.758	-0.0002	-2.5 to 2.5	Pass	
					-30	3.85	-5.350	-0.0015	-2.5 to 2.5	Pass
					-20	3.85	2.217	0.0006	-2.5 to 2.5	Pass
				-10	3.85	-4.449	-0.0012	-2.5 to 2.5	Pass	
					0	-3.347	-0.0009	-2.5 to 2.5	Pass	
					10	-4.091	-0.0011	-2.5 to 2.5	Pass	
					30	0.744	0.0002	-2.5 to 2.5	Pass	
					40	-4.678	-0.0013	-2.5 to 2.5	Pass	
				0	50	0.300	0.0001	-2.5 to 2.5	Pass	
					3.27	-0.372	-0.0001	-2.5 to 2.5	Pass	
					20	-4.306	-0.0012	-2.5 to 2.5	Pass	
					4.43	-2.303	-0.0006	-2.5 to 2.5	Pass	
					-30	2.232	0.0006	-2.5 to 2.5	Pass	
	3625	100	0	-20	3.85	-4.878	-0.0013	-2.5 to 2.5	Pass	
					-10	-0.386	-0.0001	-2.5 to 2.5	Pass	
					0	-0.029	0.0000	-2.5 to 2.5	Pass	
					10	-5.364	-0.0015	-2.5 to 2.5	Pass	
					30	-4.907	-0.0014	-2.5 to 2.5	Pass	
				40	3.85	-5.250	-0.0014	-2.5 to 2.5	Pass	
					50	-4.821	-0.0013	-2.5 to 2.5	Pass	
					3.27	1.602	0.0004	-2.5 to 2.5	Pass	
					20	-2.704	-0.0007	-2.5 to 2.5	Pass	
					4.43	2.317	0.0006	-2.5 to 2.5	Pass	
	3690	100	0	-30	3.85	0.687	0.0002	-2.5 to 2.5	Pass	
					-20	0.401	0.0001	-2.5 to 2.5	Pass	
					-10	-1.717	-0.0005	-2.5 to 2.5	Pass	
					0	1.431	0.0004	-2.5 to 2.5	Pass	
					10	0.043	0.0000	-2.5 to 2.5	Pass	
				30	3.85	-3.505	-0.0009	-2.5 to 2.5	Pass	
					3.27	1.602	0.0004	-2.5 to 2.5	Pass	
					20	-2.704	-0.0007	-2.5 to 2.5	Pass	
					4.43	2.317	0.0006	-2.5 to 2.5	Pass	
					-30	0.687	0.0002	-2.5 to 2.5	Pass	

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				40	3.85	-2.875	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.286	-0.0001	-2.5 to 2.5	Pass

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band48\_OBW

Band: 48 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	4.592	/	Pass
		3625	25	0	4.554	/	Pass
		3697.5	25	0	4.555	/	Pass
	16QAM	3552.5	25	0	4.565	/	Pass
		3625	25	0	4.580	/	Pass
		3697.5	25	0	4.534	/	Pass
10	QPSK	3555	50	0	9.062	/	Pass
		3625	50	0	9.009	/	Pass
		3695	50	0	9.011	/	Pass
	16QAM	3555	50	0	9.081	/	Pass
		3625	50	0	8.999	/	Pass
		3695	50	0	9.029	/	Pass
15	QPSK	3557.5	75	0	13.603	/	Pass
		3625	75	0	13.567	/	Pass
		3692.5	75	0	13.472	/	Pass
	16QAM	3557.5	75	0	13.638	/	Pass
		3625	75	0	13.537	/	Pass
		3692.5	75	0	13.608	/	Pass
20	QPSK	3560	100	0	18.121	/	Pass
		3625	100	0	17.996	/	Pass
		3690	100	0	18.145	/	Pass
	16QAM	3560	100	0	18.150	/	Pass
		3625	100	0	18.042	/	Pass
		3690	100	0	18.021	/	Pass



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**4.1.2 Band48\_XDB**

Band: 48 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	3552.5	25	0	5.137	/	Pass
		3625	25	0	5.155	/	Pass
		3697.5	25	0	5.122	/	Pass
	16QAM	3552.5	25	0	5.268	/	Pass
		3625	25	0	5.018	/	Pass
		3697.5	25	0	4.934	/	Pass
10	QPSK	3555	50	0	10.752	/	Pass
		3625	50	0	9.734	/	Pass
		3695	50	0	9.655	/	Pass
	16QAM	3555	50	0	11.708	/	Pass
		3625	50	0	9.938	/	Pass
		3695	50	0	10.054	/	Pass
15	QPSK	3557.5	75	0	17.757	/	Pass
		3625	75	0	14.623	/	Pass
		3692.5	75	0	15.086	/	Pass
	16QAM	3557.5	75	0	15.467	/	Pass
		3625	75	0	14.822	/	Pass
		3692.5	75	0	14.811	/	Pass
20	QPSK	3560	100	0	20.277	/	Pass
		3625	100	0	19.370	/	Pass
		3690	100	0	19.282	/	Pass
	16QAM	3560	100	0	20.991	/	Pass
		3625	100	0	22.512	/	Pass
		3690	100	0	19.573	/	Pass



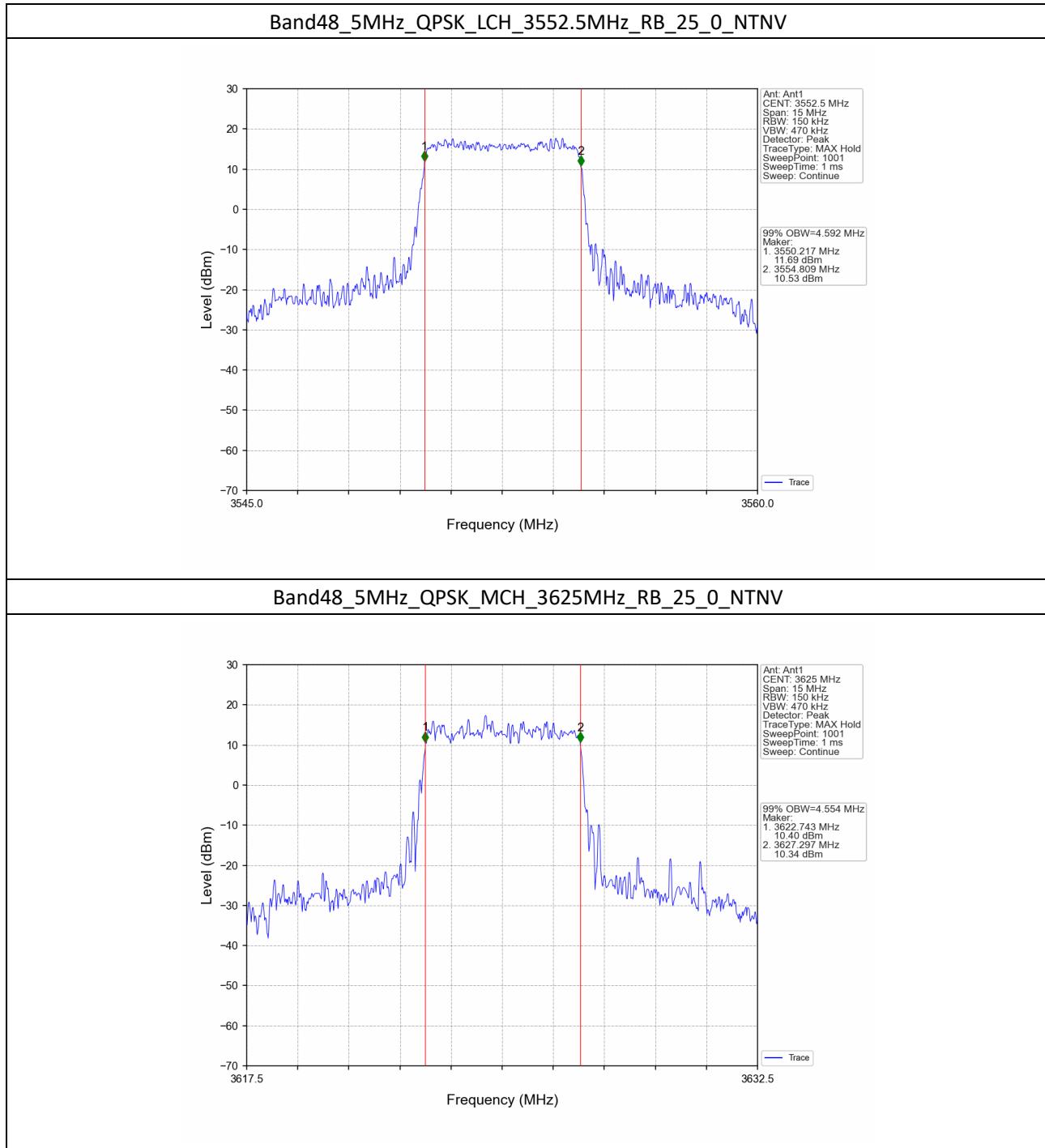
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## 3.2 Test Graph

### 3.2.1 Band48\_OBW

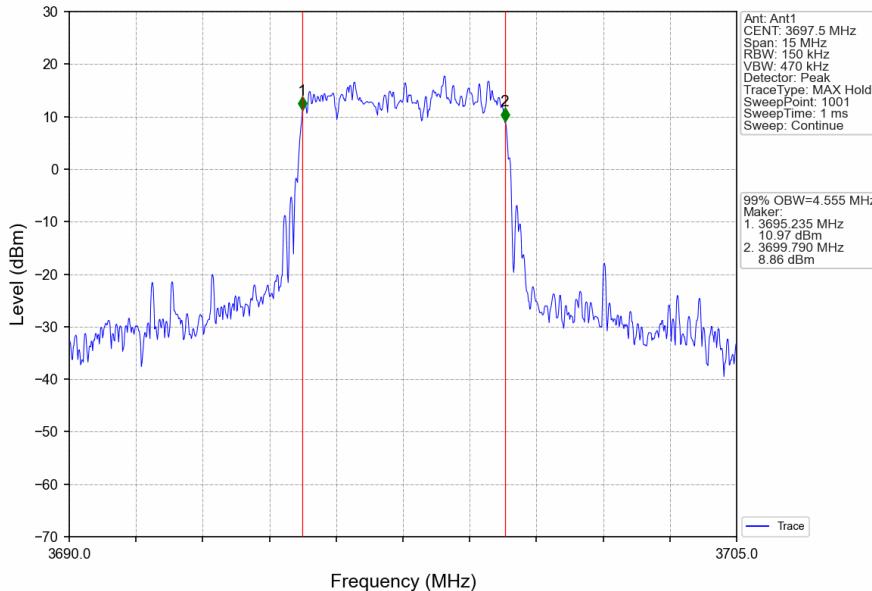


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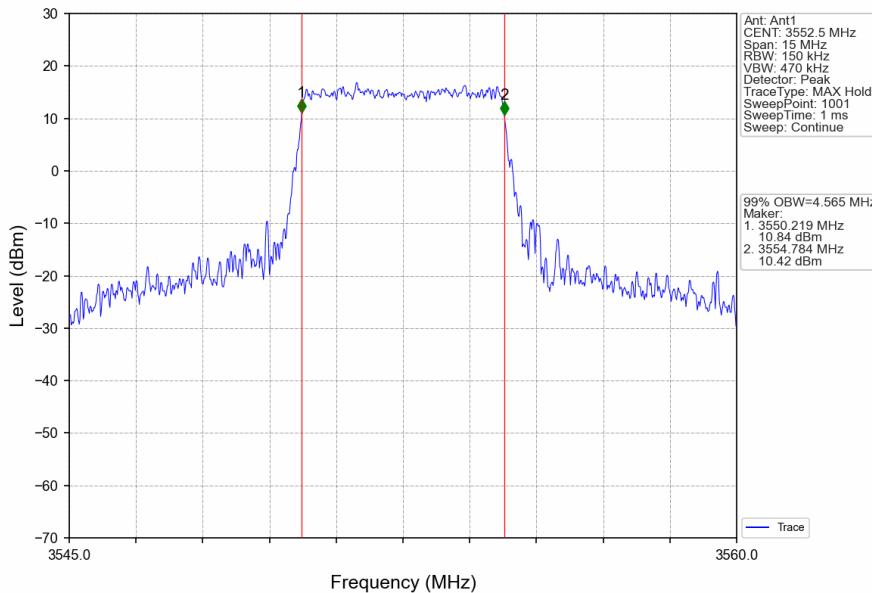
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## Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



## Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV

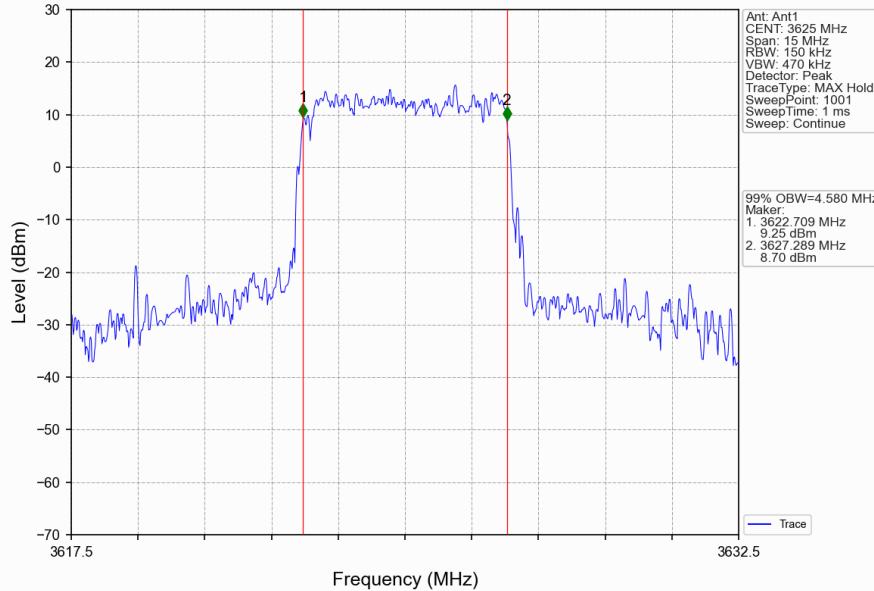
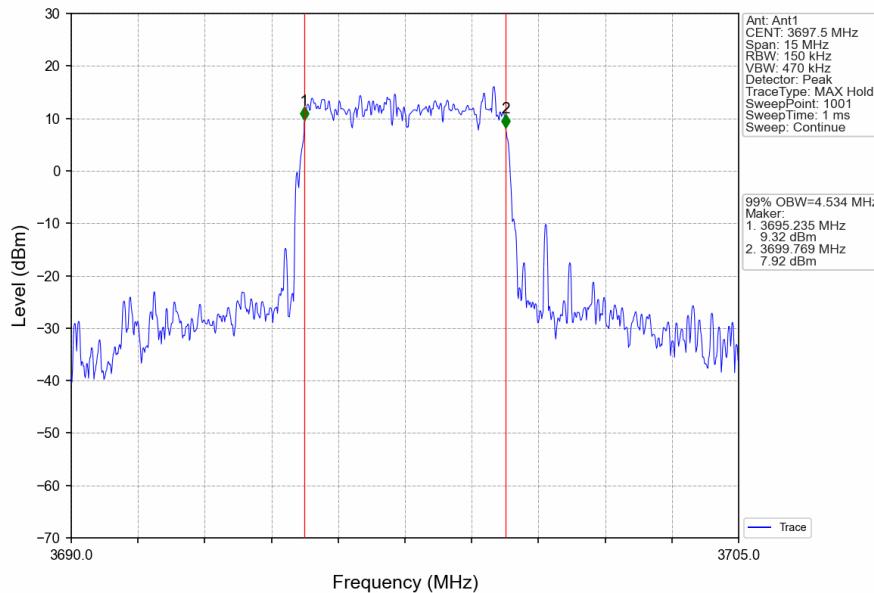


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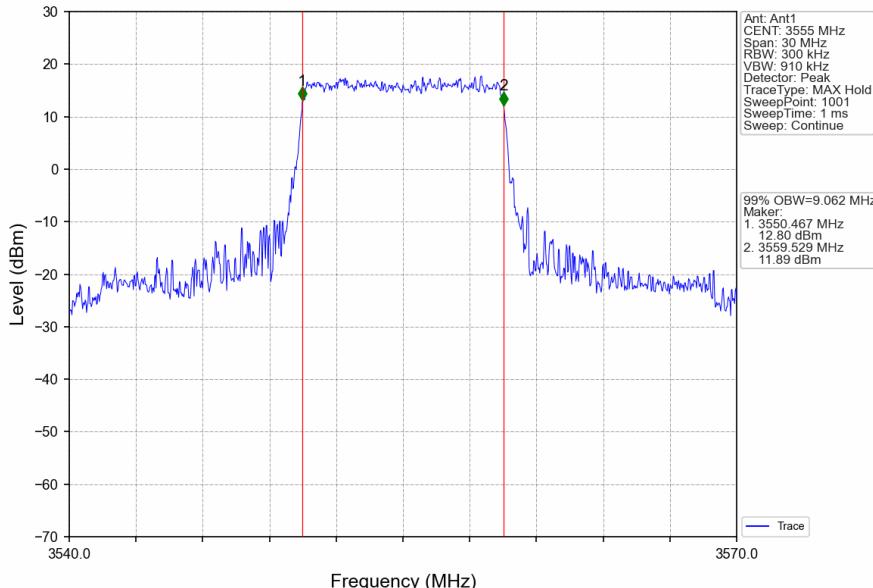
**Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV****Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV**

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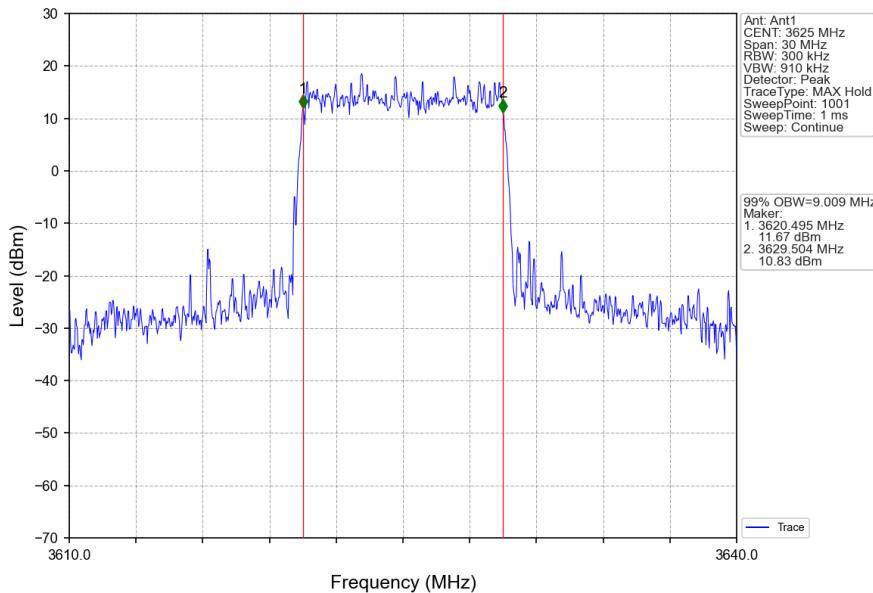
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## Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



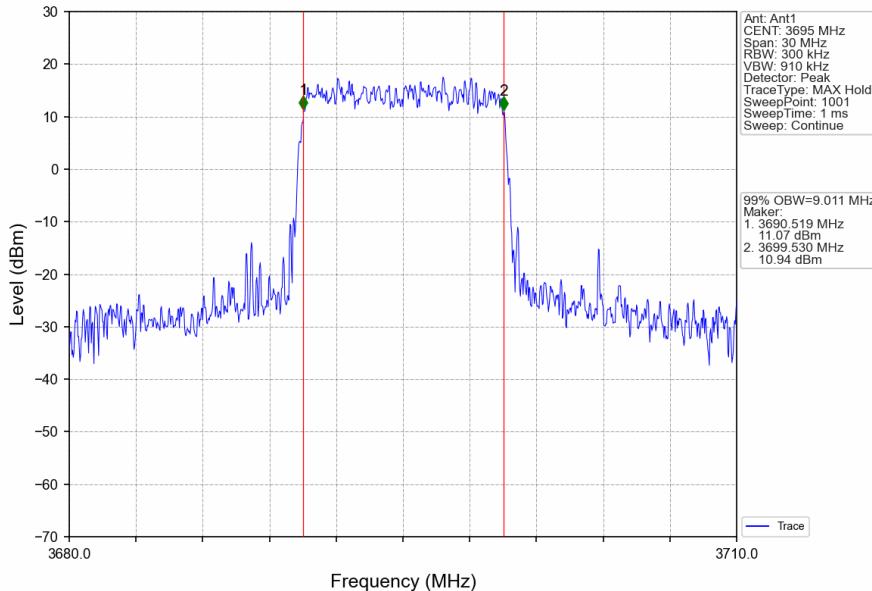
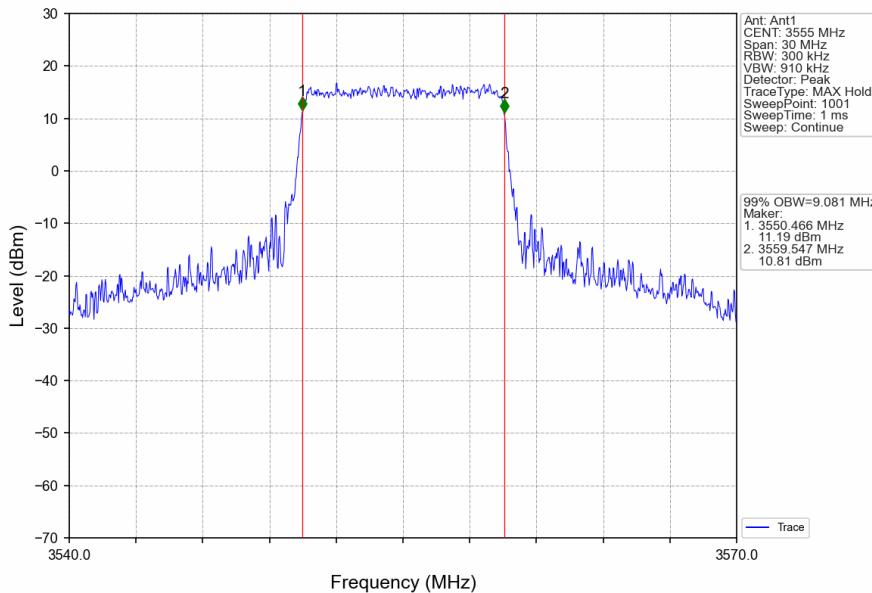
## Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



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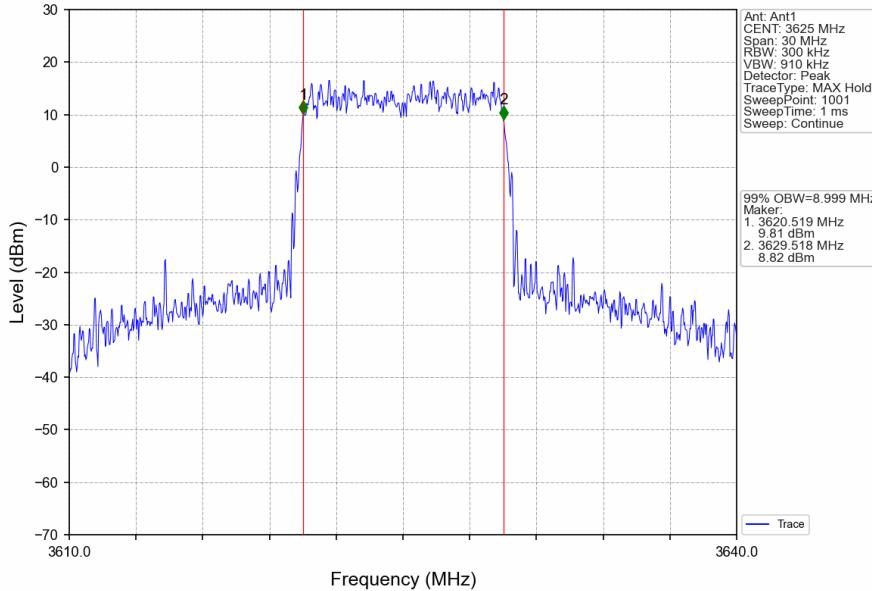
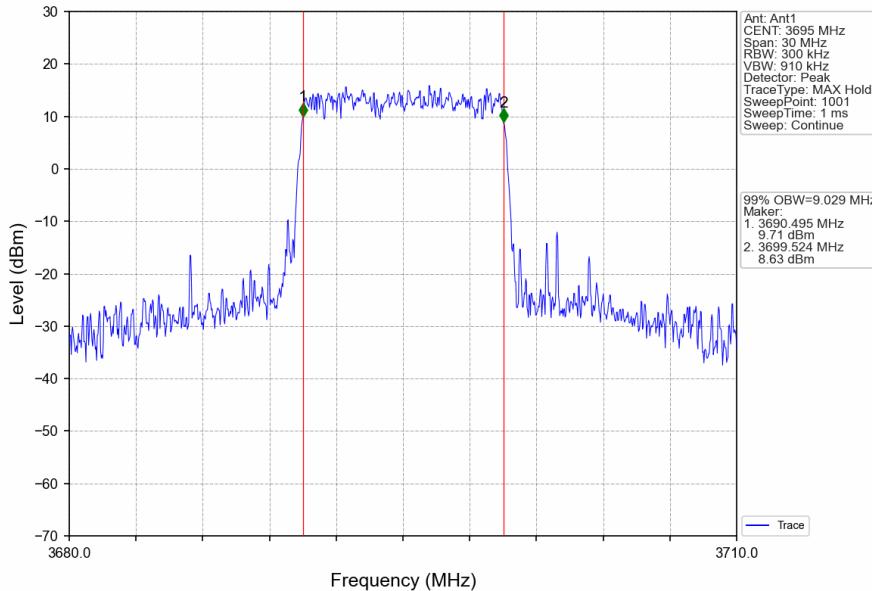
**Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV****Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV**

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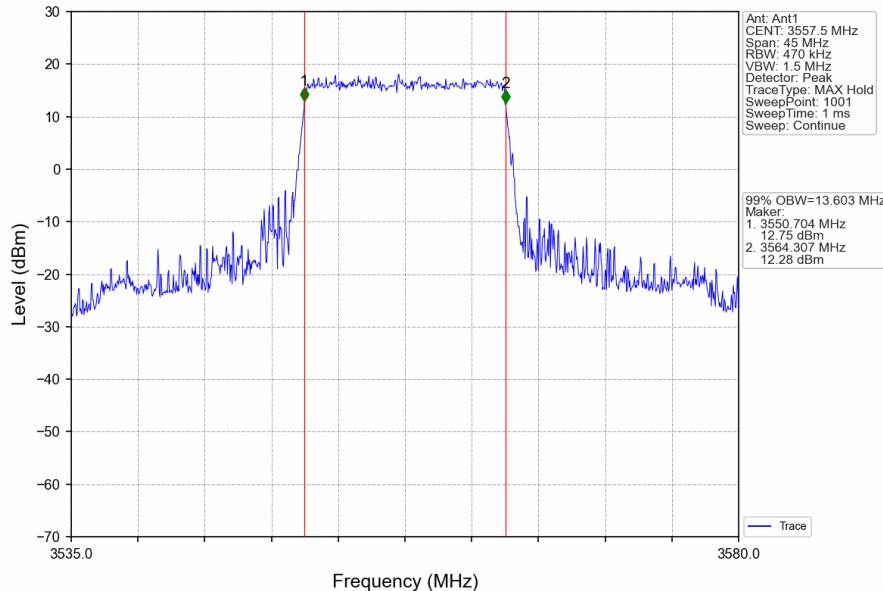
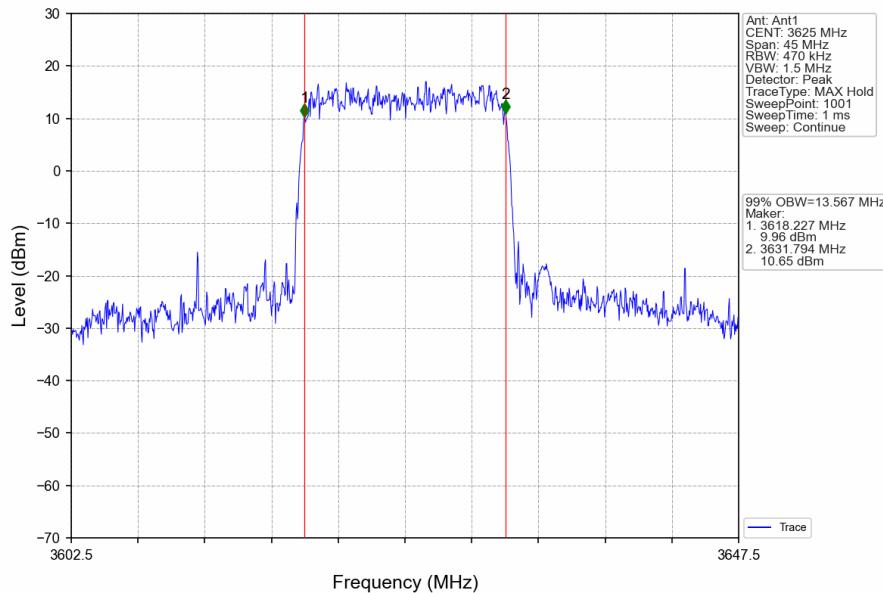
**Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV****Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV**

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**Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV**

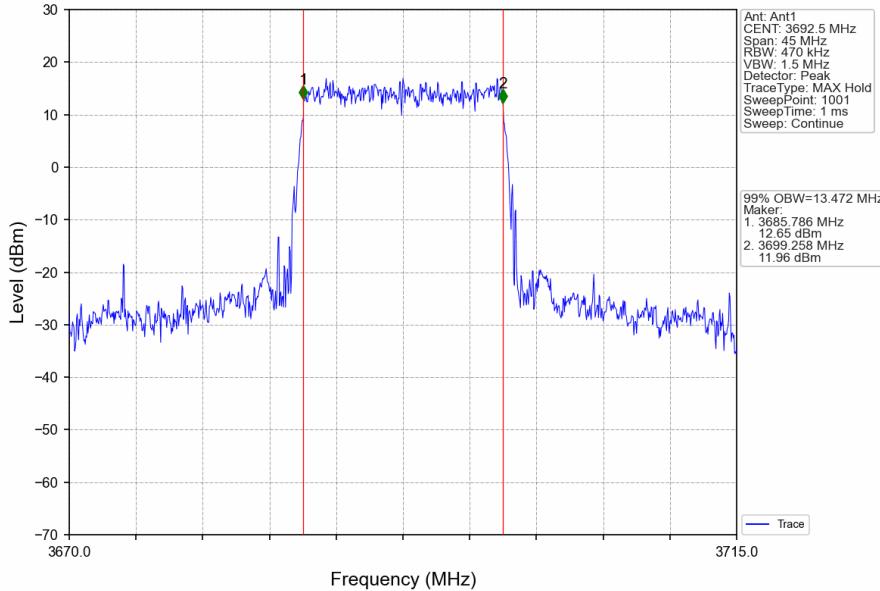
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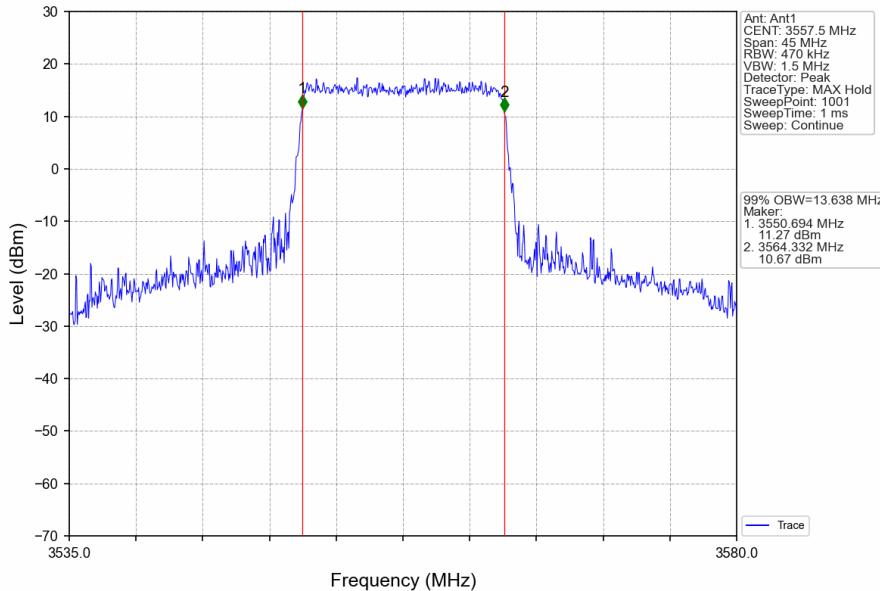


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## Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV



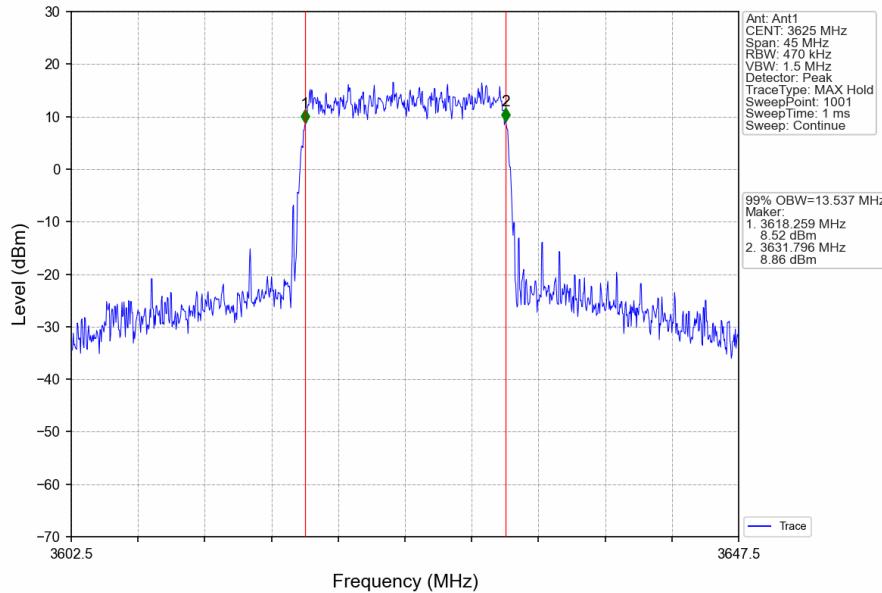
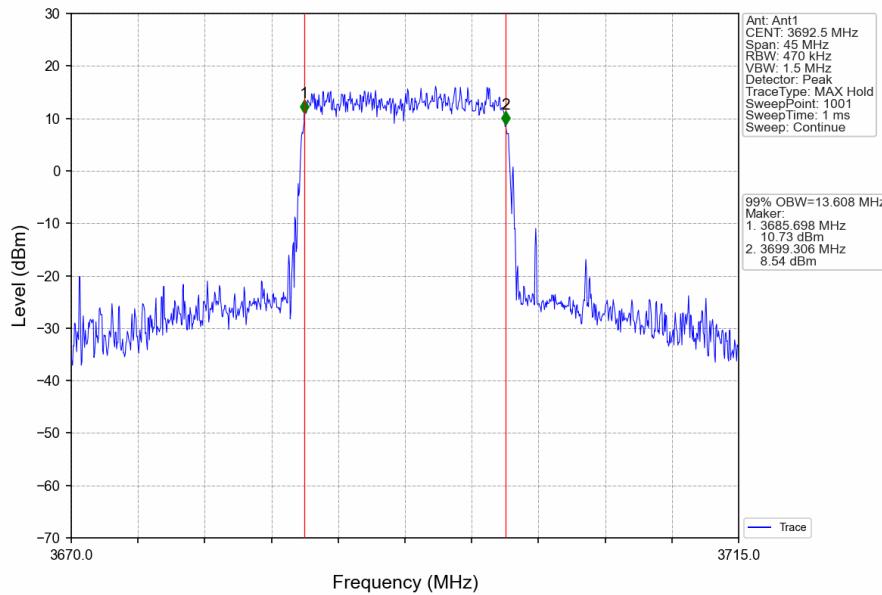
## Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



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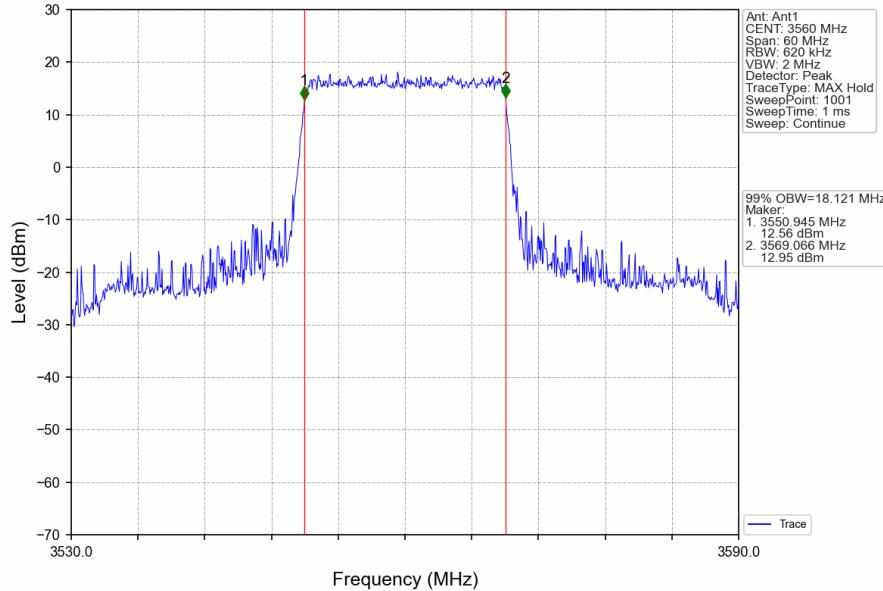
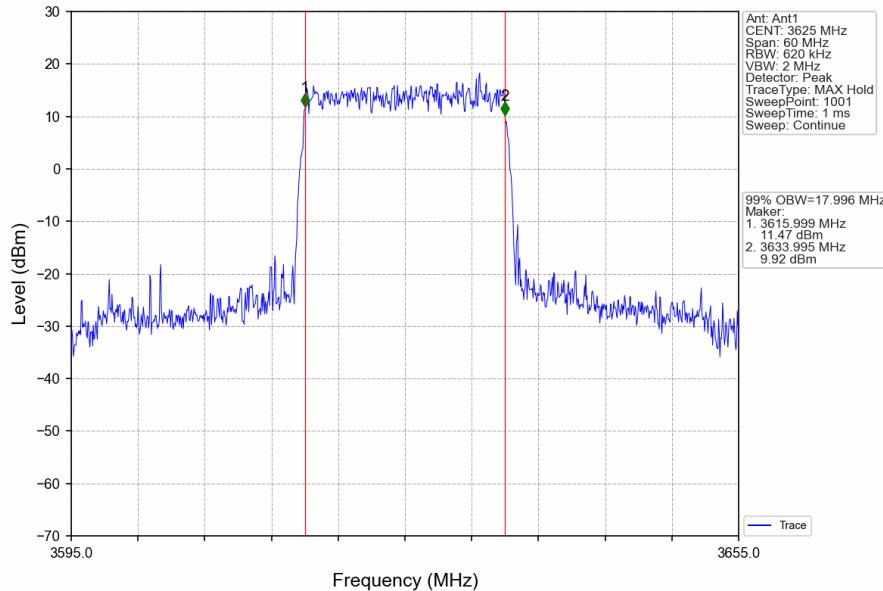
**Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV**

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**Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV****Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV**

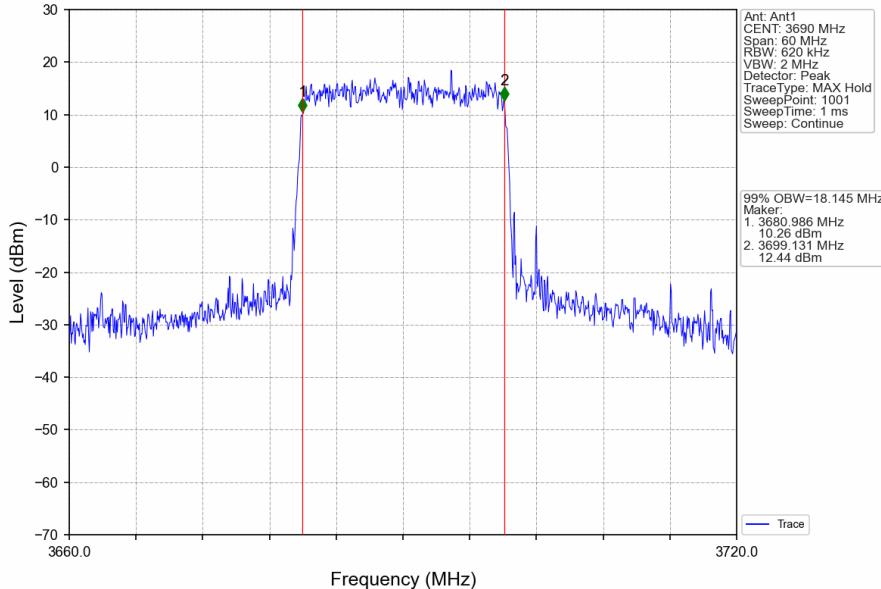
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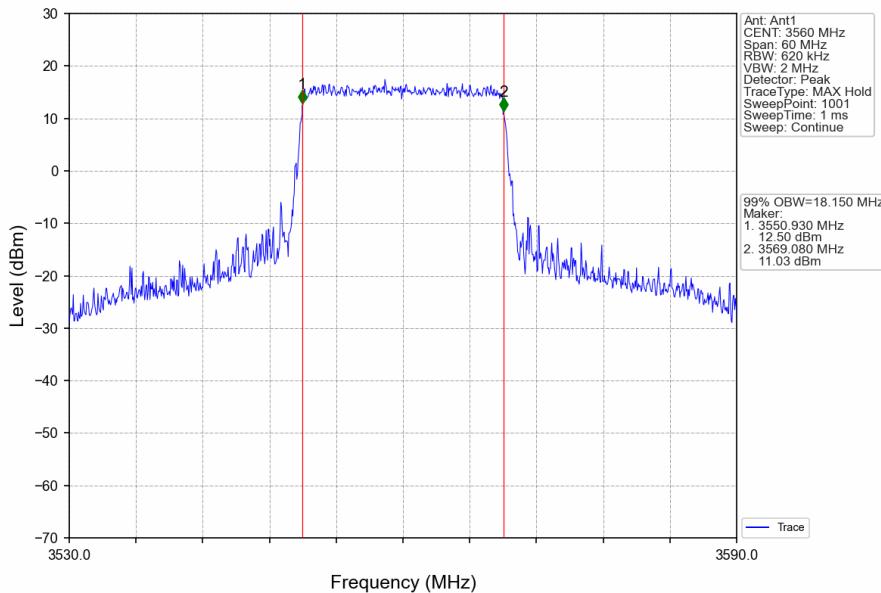
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## Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV



## Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV



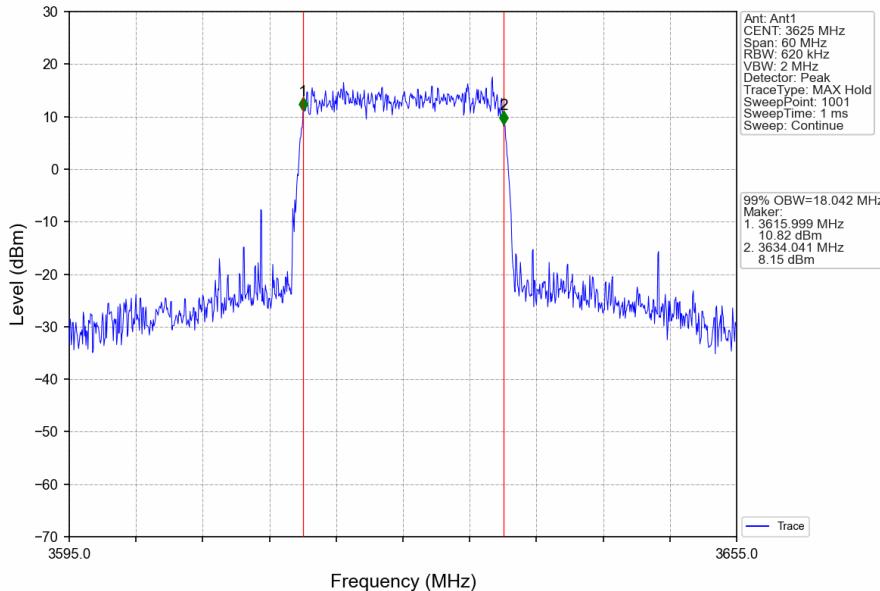
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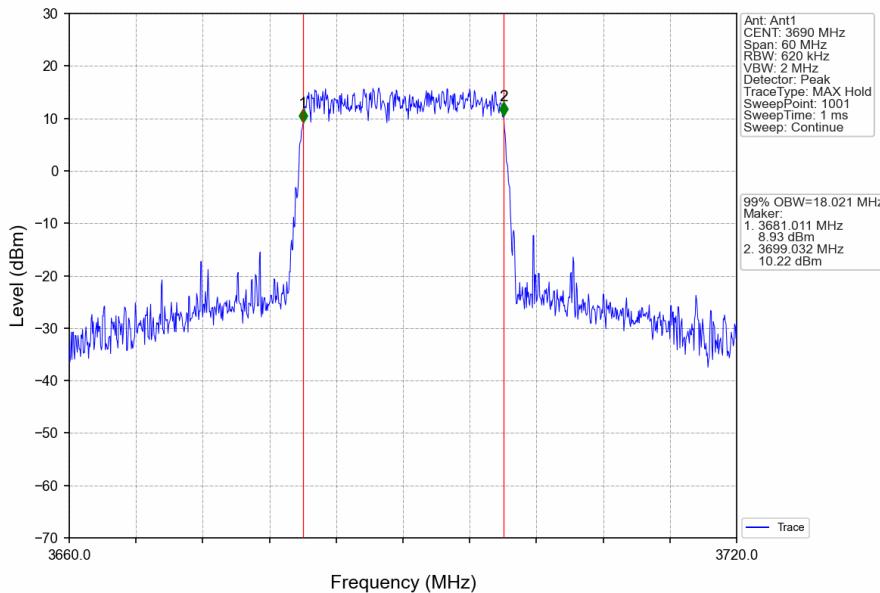
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## Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV



## Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV



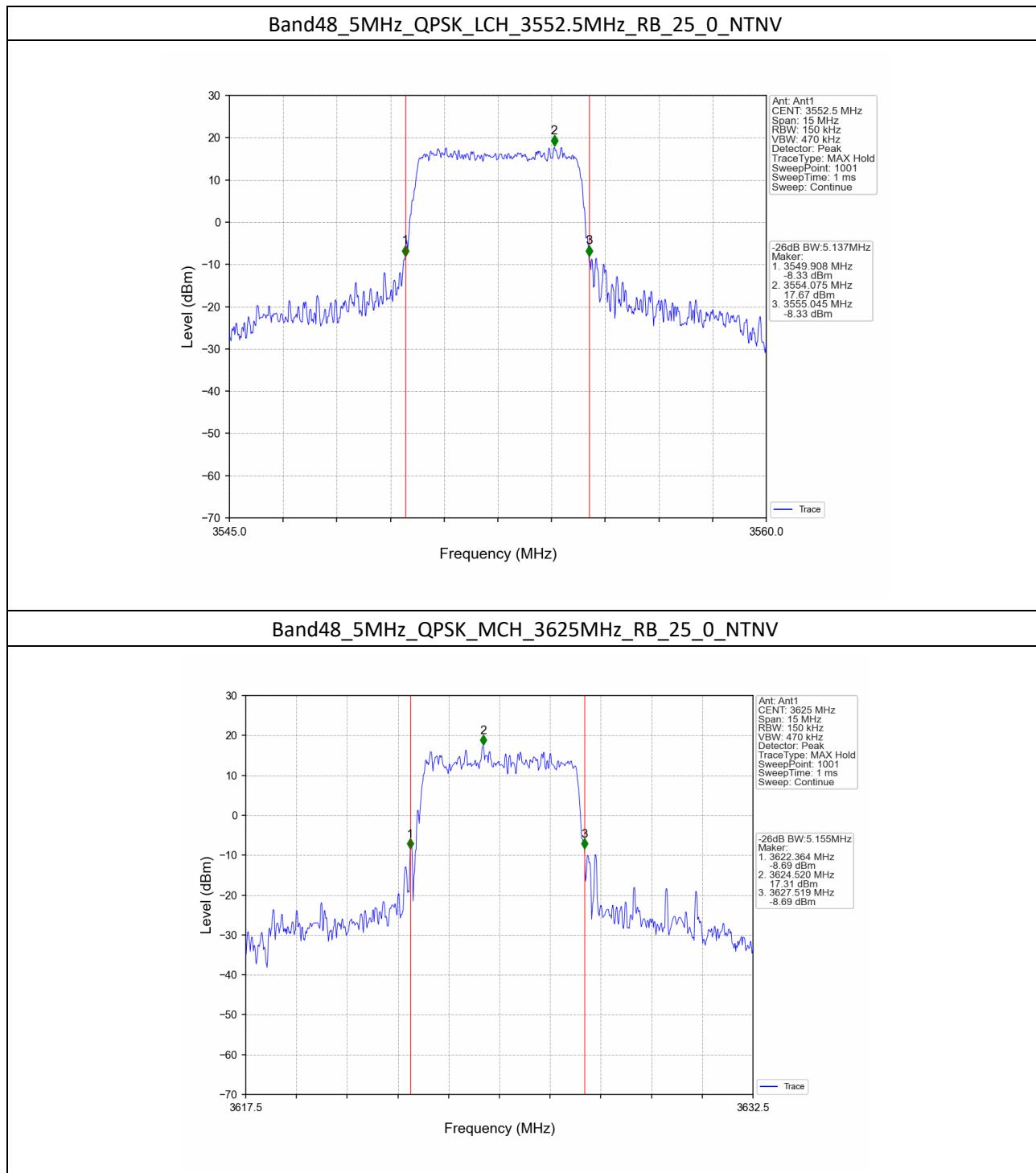
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## 3.2.2 Band48\_XDB

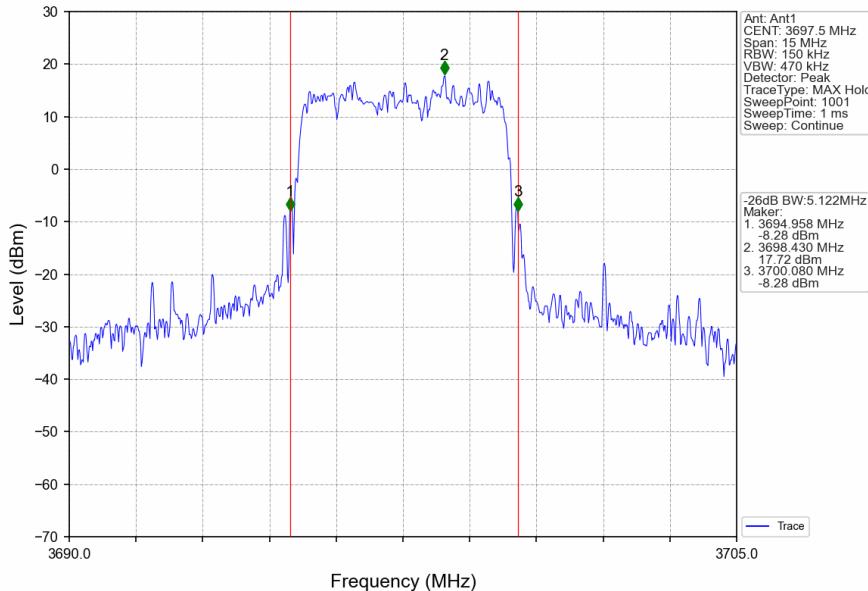


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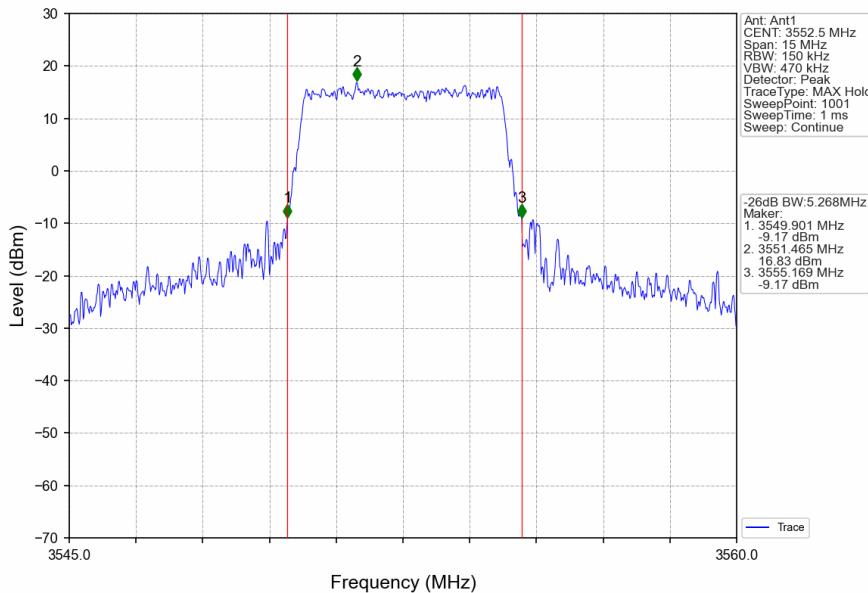
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## Band48\_5MHz\_QPSK\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV



## Band48\_5MHz\_16QAM\_LCH\_3552.5MHz\_RB\_25\_0\_NTNV

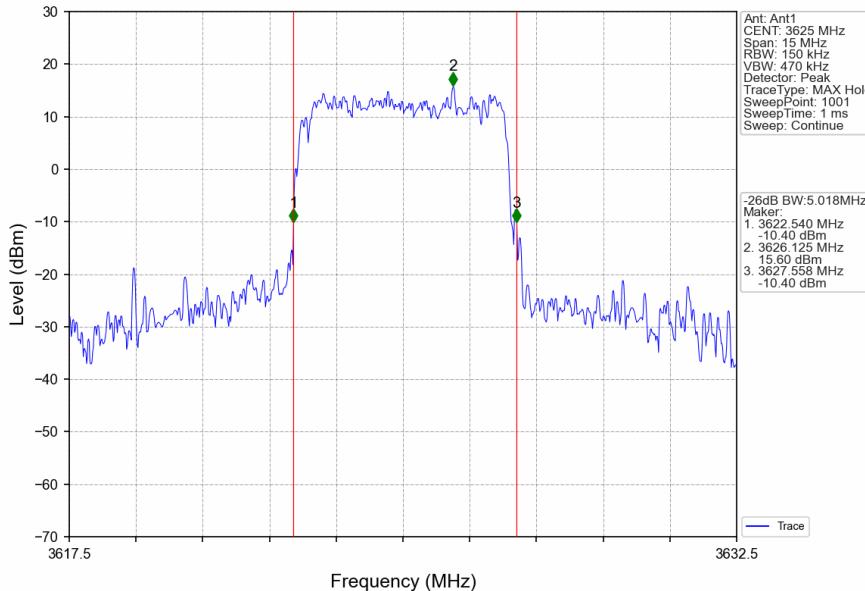


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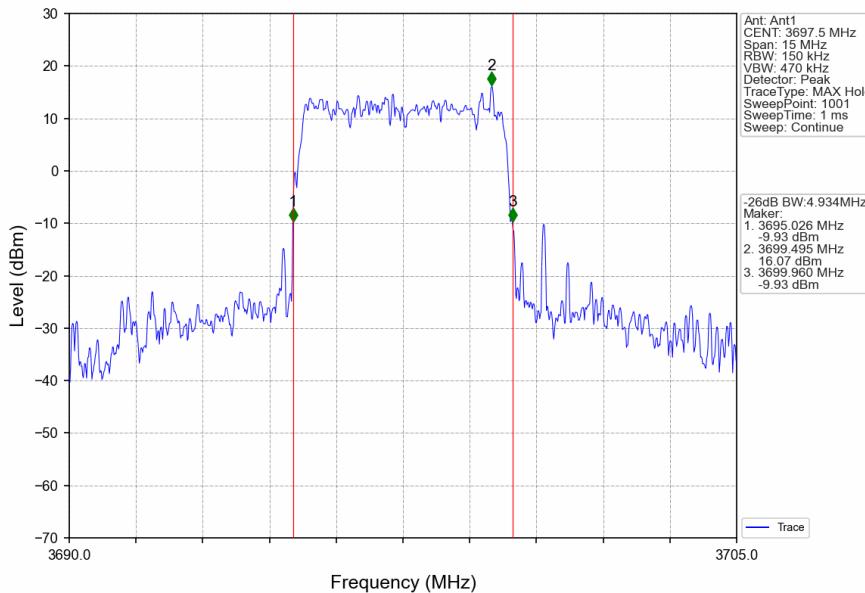
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## Band48\_5MHz\_16QAM\_MCH\_3625MHz\_RB\_25\_0\_NTNV



## Band48\_5MHz\_16QAM\_HCH\_3697.5MHz\_RB\_25\_0\_NTNV

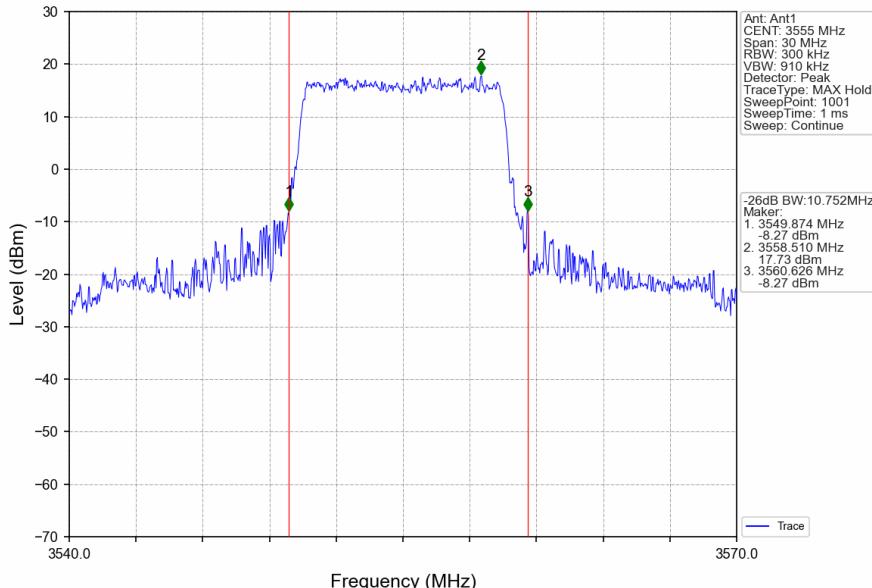


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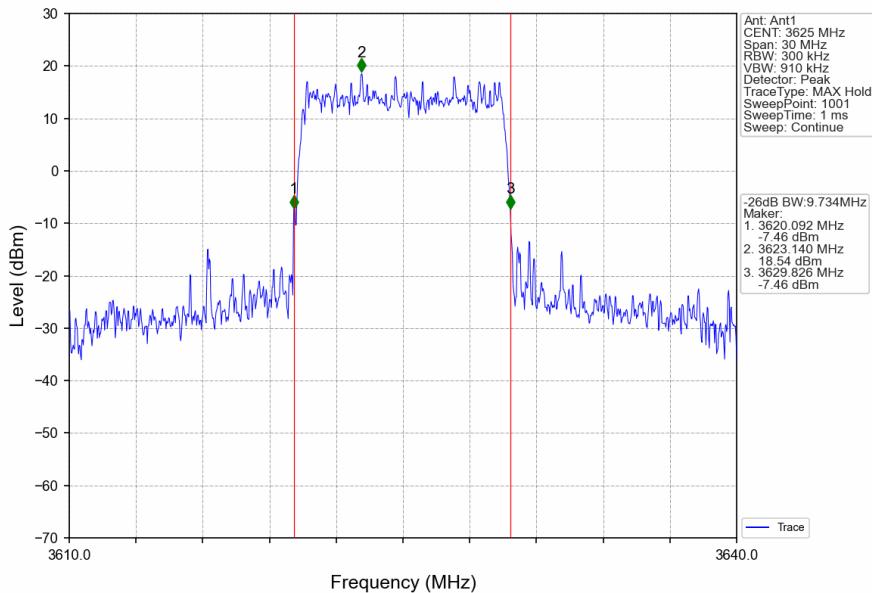
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## Band48\_10MHz\_QPSK\_LCH\_3555MHz\_RB\_50\_0\_NTNV



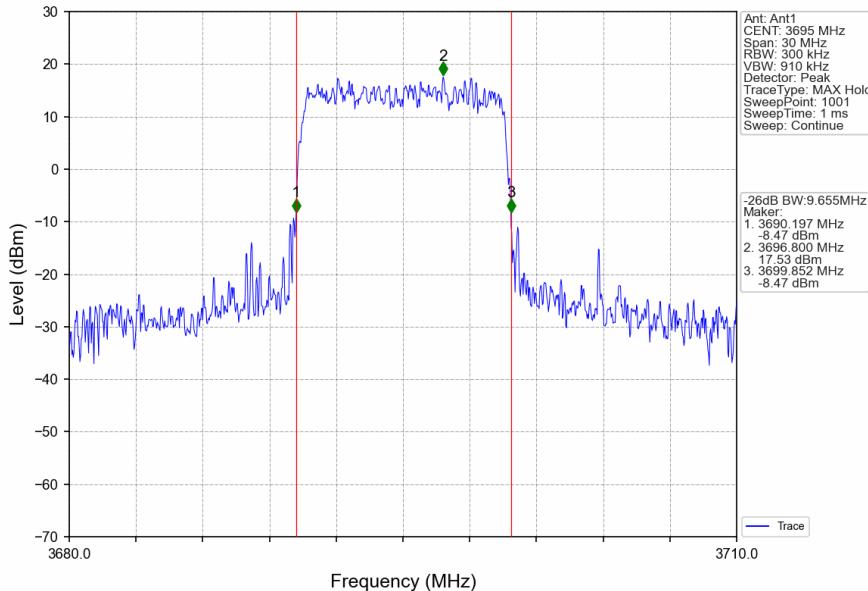
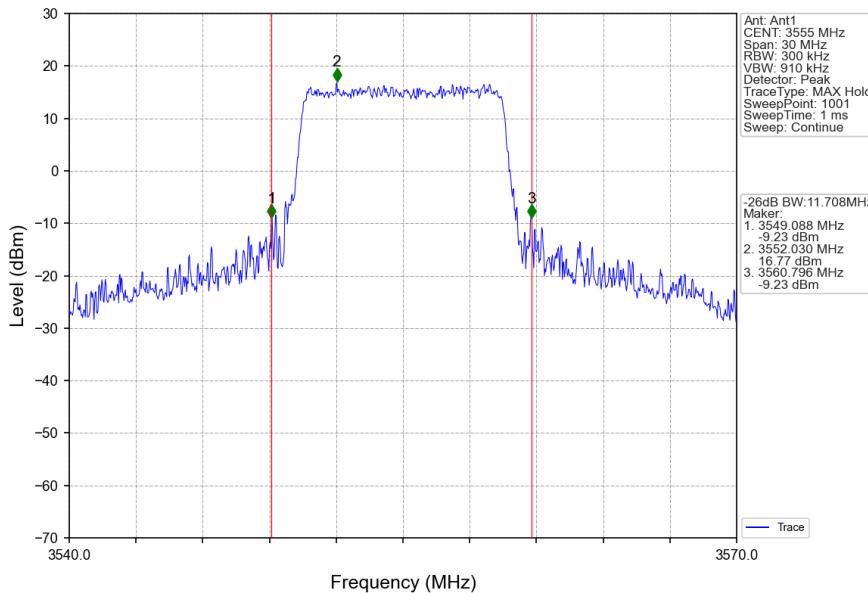
## Band48\_10MHz\_QPSK\_MCH\_3625MHz\_RB\_50\_0\_NTNV



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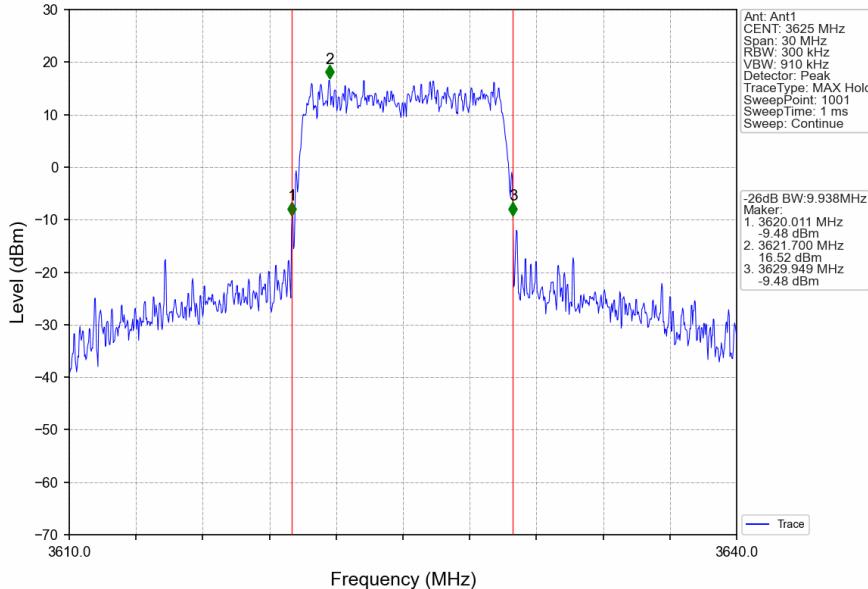
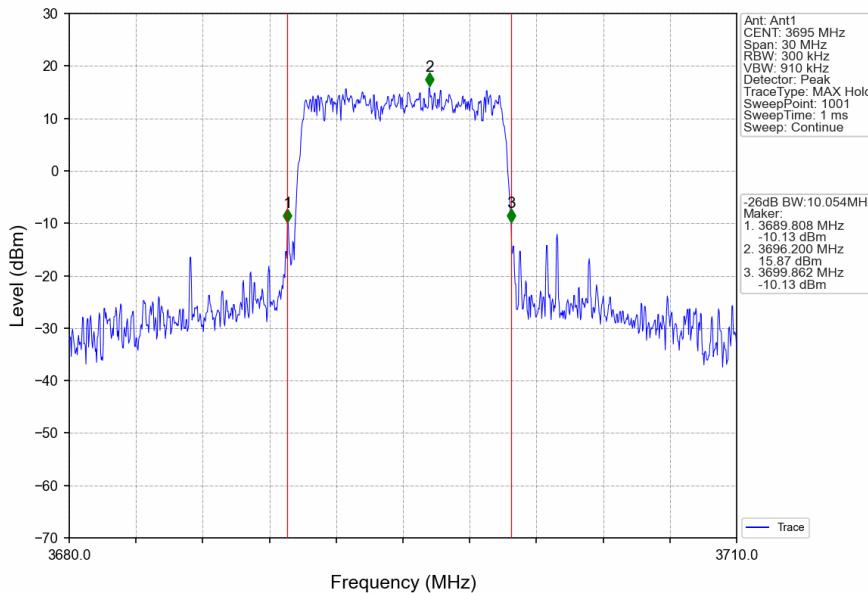
**Band48\_10MHz\_QPSK\_HCH\_3695MHz\_RB\_50\_0\_NTNV****Band48\_10MHz\_16QAM\_LCH\_3555MHz\_RB\_50\_0\_NTNV**

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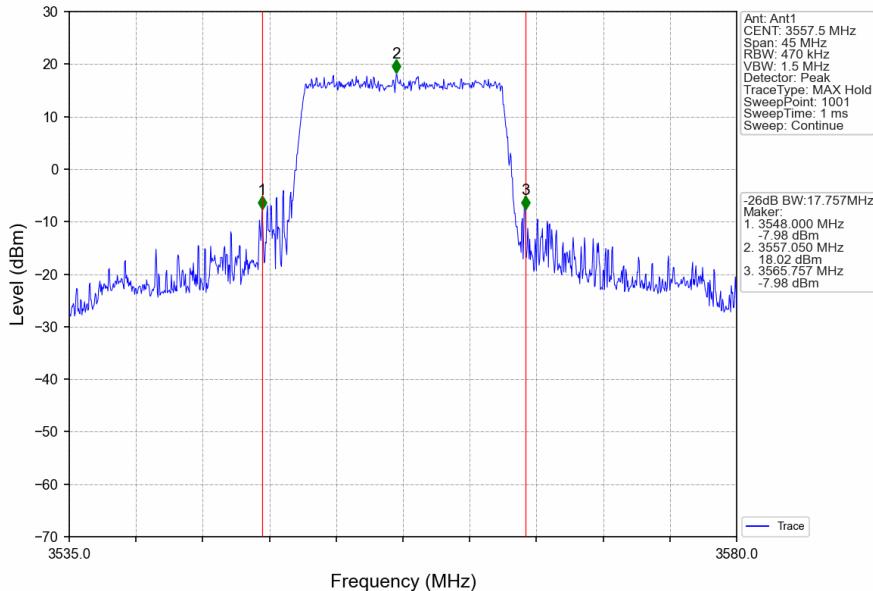
**Band48\_10MHz\_16QAM\_MCH\_3625MHz\_RB\_50\_0\_NTNV****Band48\_10MHz\_16QAM\_HCH\_3695MHz\_RB\_50\_0\_NTNV**

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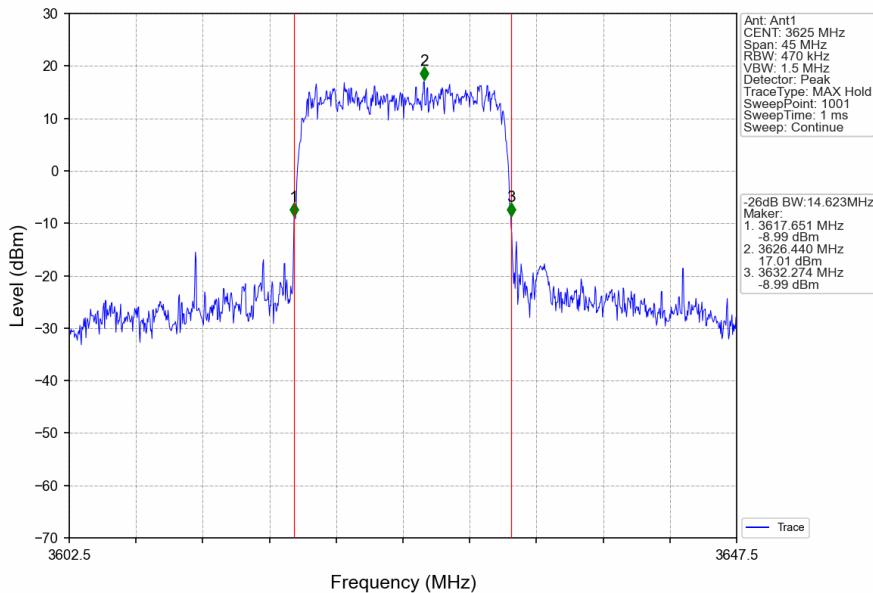
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## Band48\_15MHz\_QPSK\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV



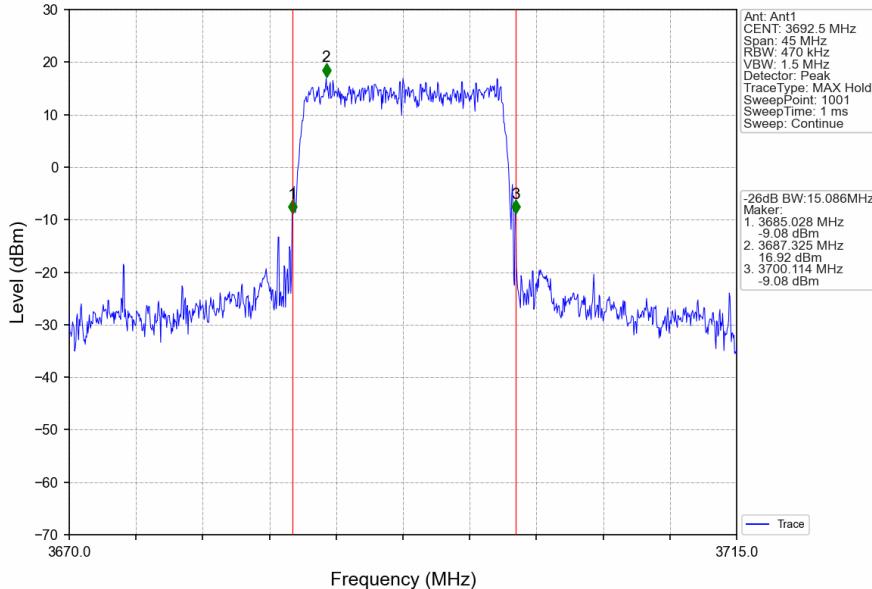
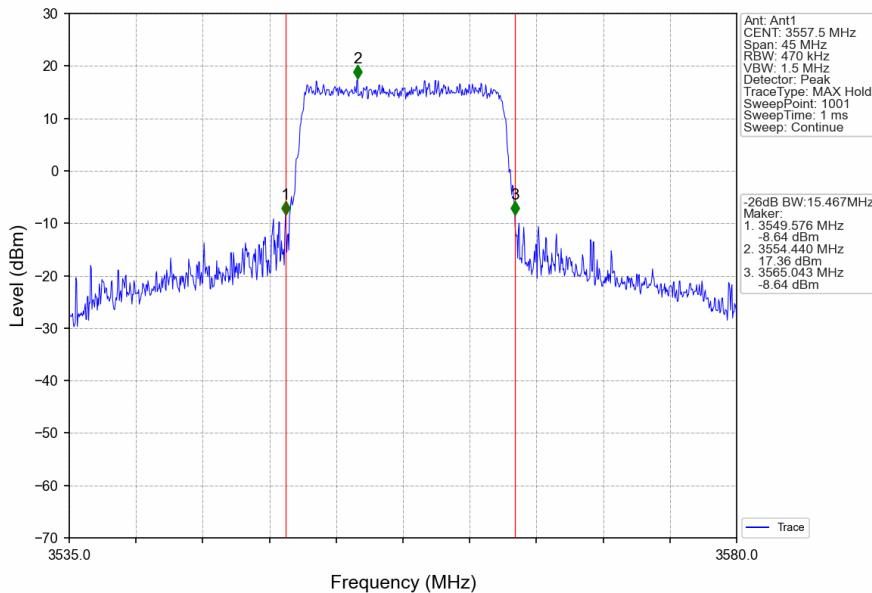
## Band48\_15MHz\_QPSK\_MCH\_3625MHz\_RB\_75\_0\_NTNV



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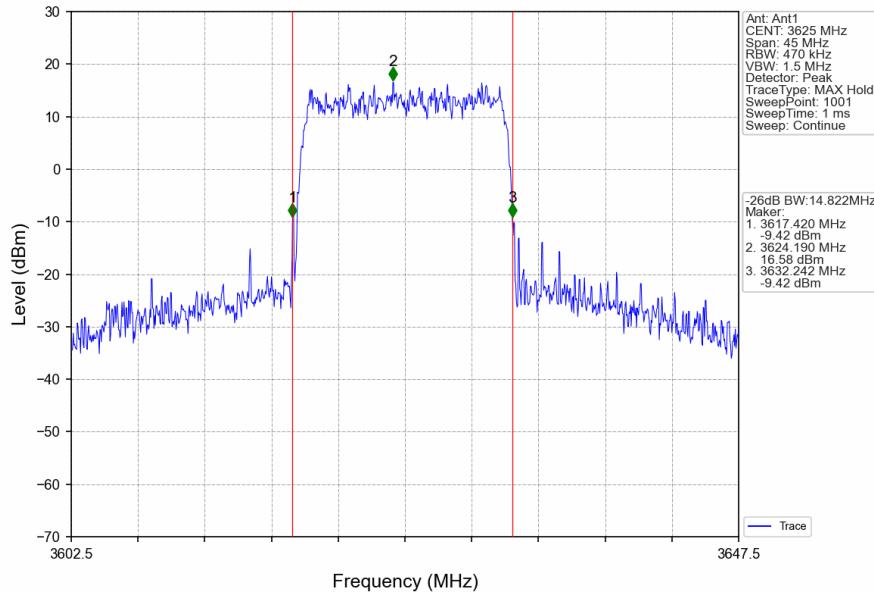
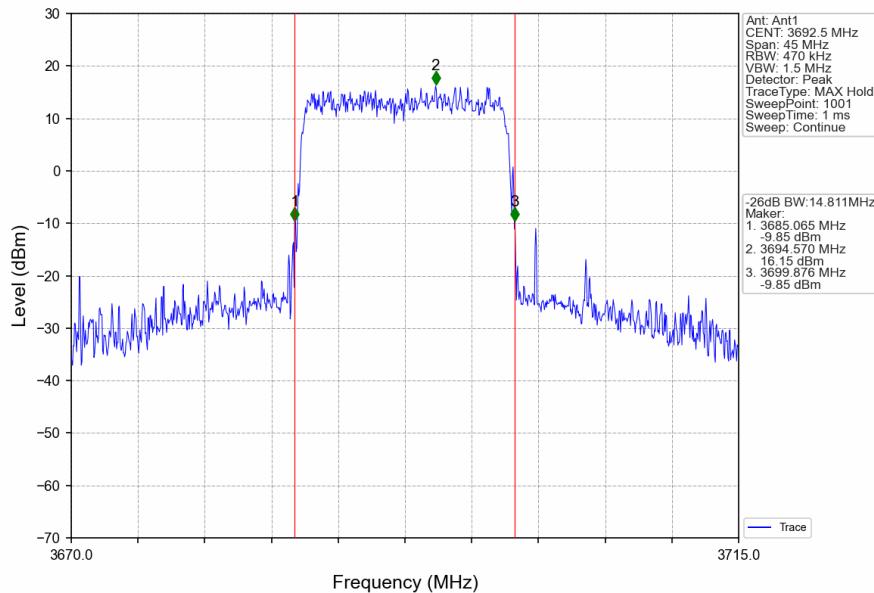
**Band48\_15MHz\_QPSK\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_16QAM\_LCH\_3557.5MHz\_RB\_75\_0\_NTNV**

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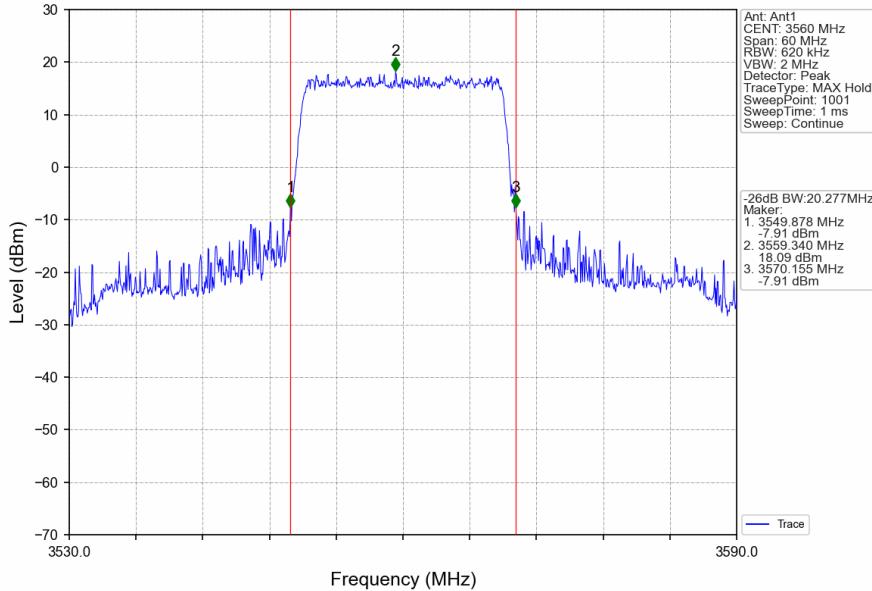
**Band48\_15MHz\_16QAM\_MCH\_3625MHz\_RB\_75\_0\_NTNV****Band48\_15MHz\_16QAM\_HCH\_3692.5MHz\_RB\_75\_0\_NTNV**

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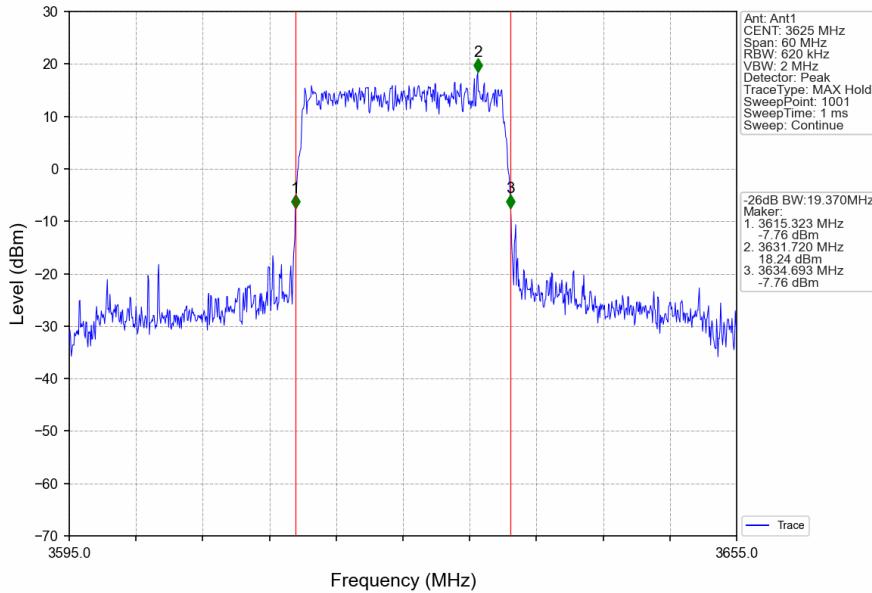
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## Band48\_20MHz\_QPSK\_LCH\_3560MHz\_RB\_100\_0\_NTNV



## Band48\_20MHz\_QPSK\_MCH\_3625MHz\_RB\_100\_0\_NTNV

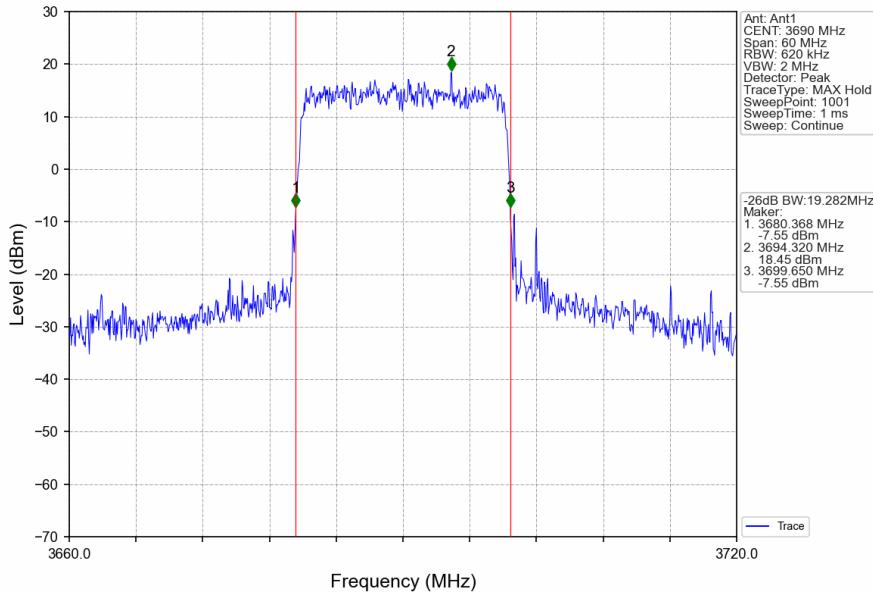
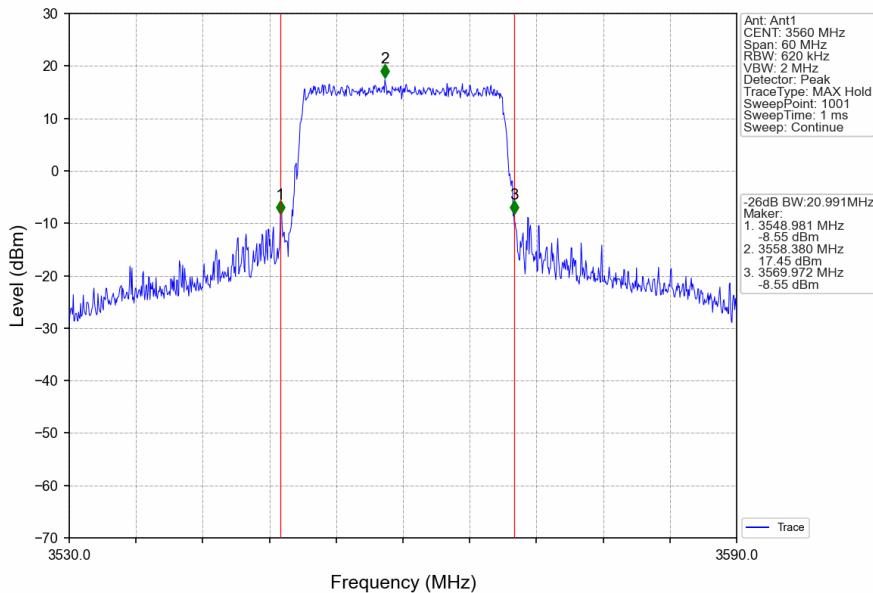


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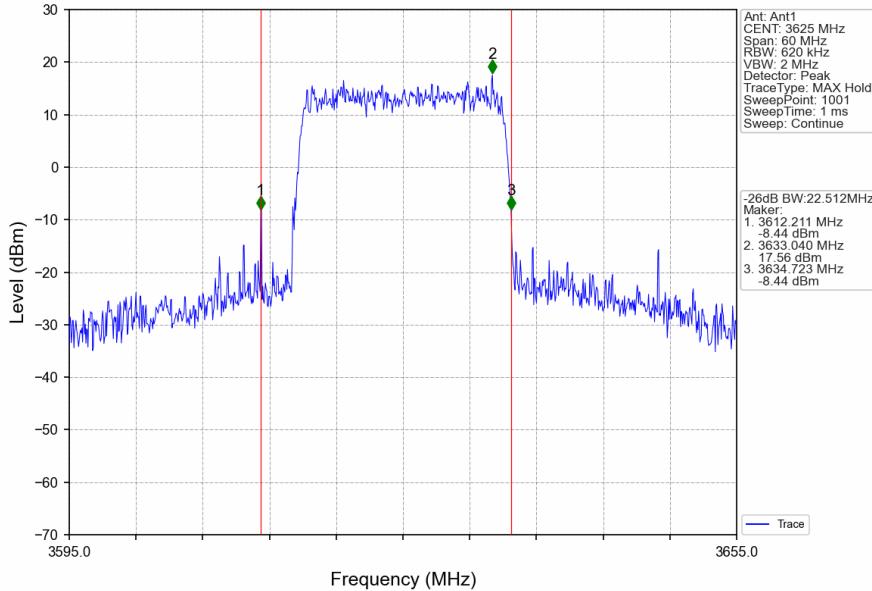
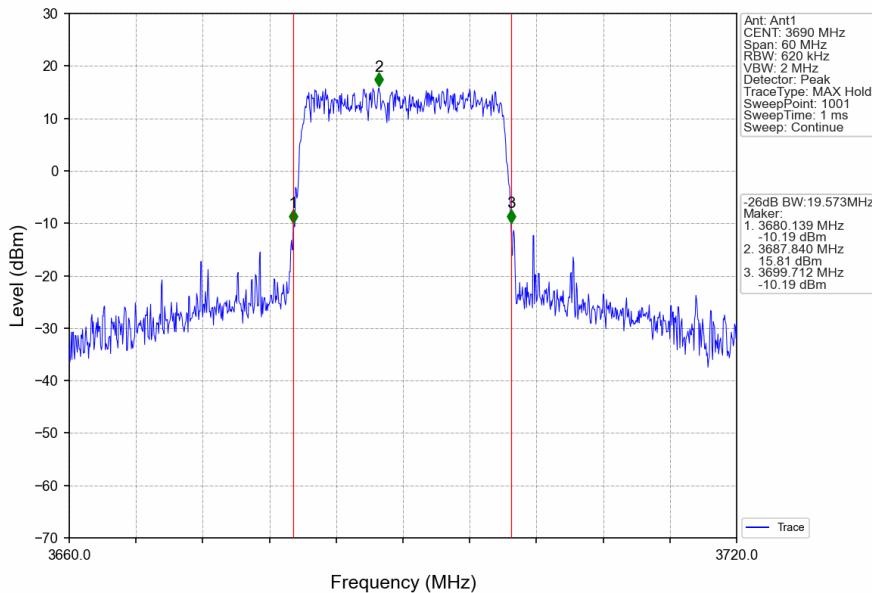
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**Band48\_20MHz\_QPSK\_HCH\_3690MHz\_RB\_100\_0\_NTNV****Band48\_20MHz\_16QAM\_LCH\_3560MHz\_RB\_100\_0\_NTNV**

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**Band48\_20MHz\_16QAM\_MCH\_3625MHz\_RB\_100\_0\_NTNV****Band48\_20MHz\_16QAM\_HCH\_3690MHz\_RB\_100\_0\_NTNV**

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B48\_20MHz

Band: 48 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	3560	100	0	7.33	<=13	Pass
	3625	100	0	7.71	<=13	Pass
	3690	100	0	7.57	<=13	Pass
16QAM	3560	100	0	8.11	<=13	Pass
	3625	100	0	8.90	<=13	Pass
	3690	100	0	8.52	<=13	Pass



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