

Appendix A.7

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.04	-0.80	21.24	<=30	Pass
			2	22.06	-0.80	21.26	<=30	Pass
			5	21.91	-0.80	21.11	<=30	Pass
		3	0	21.73	-0.80	20.93	<=30	Pass
			2	21.85	-0.80	21.05	<=30	Pass
			3	21.70	-0.80	20.90	<=30	Pass
		6	0	20.76	-0.80	19.96	<=30	Pass
	1732.5	1	0	21.82	-0.80	21.02	<=30	Pass
			2	21.91	-0.80	21.11	<=30	Pass
			5	21.90	-0.80	21.10	<=30	Pass
		3	0	21.87	-0.80	21.07	<=30	Pass
			2	21.84	-0.80	21.04	<=30	Pass
			3	21.79	-0.80	20.99	<=30	Pass
		6	0	20.90	-0.80	20.10	<=30	Pass
	1754.3	1	0	21.79	-0.80	20.99	<=30	Pass
			2	21.91	-0.80	21.11	<=30	Pass
			5	21.95	-0.80	21.15	<=30	Pass
		3	0	21.76	-0.80	20.96	<=30	Pass
			2	21.81	-0.80	21.01	<=30	Pass
			3	21.86	-0.80	21.06	<=30	Pass
		6	0	20.86	-0.80	20.06	<=30	Pass
16QAM	1710.7	1	0	20.65	-0.80	19.85	<=30	Pass
			2	20.63	-0.80	19.83	<=30	Pass
			5	20.72	-0.80	19.92	<=30	Pass
		3	0	20.79	-0.80	19.99	<=30	Pass
			2	20.84	-0.80	20.04	<=30	Pass
			3	20.76	-0.80	19.96	<=30	Pass
		6	0	19.87	-0.80	19.07	<=30	Pass
	1732.5	1	0	20.70	-0.80	19.90	<=30	Pass
			2	20.57	-0.80	19.77	<=30	Pass
			5	20.53	-0.80	19.73	<=30	Pass
		3	0	20.85	-0.80	20.05	<=30	Pass
			2	20.93	-0.80	20.13	<=30	Pass



			3	20.84	-0.80	20.04	<=30	Pass
		6	0	19.74	-0.80	18.94	<=30	Pass
	1754.3	1	0	20.68	-0.80	19.88	<=30	Pass
			2	20.51	-0.80	19.71	<=30	Pass
			5	20.51	-0.80	19.71	<=30	Pass
		3	0	20.75	-0.80	19.95	<=30	Pass
			2	20.87	-0.80	20.07	<=30	Pass
			3	20.83	-0.80	20.03	<=30	Pass
		6	0	20.01	-0.80	19.21	<=30	Pass
	Note1: EIRP=Conducted Power+Antenna Gain							

1.1.2 B4_3MHz_EIRP

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	21.86	-0.80	21.06	<=30	Pass
			7	22.07	-0.80	21.27	<=30	Pass
			14	21.71	-0.80	20.91	<=30	Pass
		8	0	20.80	-0.80	20.00	<=30	Pass
			4	20.76	-0.80	19.96	<=30	Pass
			7	20.71	-0.80	19.91	<=30	Pass
		15	0	20.77	-0.80	19.97	<=30	Pass
	1732.5	1	0	21.92	-0.80	21.12	<=30	Pass
			7	22.02	-0.80	21.22	<=30	Pass
			14	21.93	-0.80	21.13	<=30	Pass
		8	0	20.95	-0.80	20.15	<=30	Pass
			4	20.85	-0.80	20.05	<=30	Pass
			7	20.82	-0.80	20.02	<=30	Pass
		15	0	20.64	-0.80	19.84	<=30	Pass
	1753.5	1	0	21.70	-0.80	20.90	<=30	Pass
			7	22.01	-0.80	21.21	<=30	Pass
			14	21.72	-0.80	20.92	<=30	Pass
		8	0	20.81	-0.80	20.01	<=30	Pass
			4	20.67	-0.80	19.87	<=30	Pass
			7	20.72	-0.80	19.92	<=30	Pass
		15	0	20.61	-0.80	19.81	<=30	Pass
16QAM	1711.5	1	0	20.59	-0.80	19.79	<=30	Pass
			7	20.78	-0.80	19.98	<=30	Pass
			14	20.59	-0.80	19.79	<=30	Pass
		8	0	19.85	-0.80	19.05	<=30	Pass
			4	19.89	-0.80	19.09	<=30	Pass
			7	19.81	-0.80	19.01	<=30	Pass



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	1732.5	15	0	19.79	-0.80	18.99	<=30	Pass
		1	0	20.59	-0.80	19.79	<=30	Pass
			7	20.50	-0.80	19.70	<=30	Pass
			14	20.45	-0.80	19.65	<=30	Pass
		8	0	19.96	-0.80	19.16	<=30	Pass
			4	19.83	-0.80	19.03	<=30	Pass
			7	20.10	-0.80	19.30	<=30	Pass
		15	0	19.94	-0.80	19.14	<=30	Pass
	1753.5	1	0	20.34	-0.80	19.54	<=30	Pass
			7	20.56	-0.80	19.76	<=30	Pass
			14	20.46	-0.80	19.66	<=30	Pass
		8	0	19.68	-0.80	18.88	<=30	Pass
			4	19.75	-0.80	18.95	<=30	Pass
			7	19.77	-0.80	18.97	<=30	Pass
		15	0	19.72	-0.80	18.92	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

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	21.86	-0.80	21.06	<=30	Pass
			13	21.88	-0.80	21.08	<=30	Pass
			24	21.72	-0.80	20.92	<=30	Pass
		12	0	20.84	-0.80	20.04	<=30	Pass
			6	20.75	-0.80	19.95	<=30	Pass
			13	20.67	-0.80	19.87	<=30	Pass
		25	0	20.67	-0.80	19.87	<=30	Pass
	1732.5	1	0	21.82	-0.80	21.02	<=30	Pass
			13	22.11	-0.80	21.31	<=30	Pass
			24	21.84	-0.80	21.04	<=30	Pass
		12	0	20.86	-0.80	20.06	<=30	Pass
			6	20.82	-0.80	20.02	<=30	Pass
			13	20.78	-0.80	19.98	<=30	Pass
		25	0	20.87	-0.80	20.07	<=30	Pass
	1752.5	1	0	21.74	-0.80	20.94	<=30	Pass
			13	22.01	-0.80	21.21	<=30	Pass
			24	22.01	-0.80	21.21	<=30	Pass
		12	0	20.86	-0.80	20.06	<=30	Pass
			6	20.98	-0.80	20.18	<=30	Pass
			13	20.70	-0.80	19.90	<=30	Pass
		25	0	20.79	-0.80	19.99	<=30	Pass



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16QAM	1712.5	1	0	20.68	-0.80	19.88	<=30	Pass
			13	20.38	-0.80	19.58	<=30	Pass
			24	20.22	-0.80	19.42	<=30	Pass
		12	0	19.80	-0.80	19.00	<=30	Pass
			6	19.69	-0.80	18.89	<=30	Pass
			13	19.65	-0.80	18.85	<=30	Pass
		25	0	19.83	-0.80	19.03	<=30	Pass
	1732.5	1	0	20.50	-0.80	19.70	<=30	Pass
			13	20.53	-0.80	19.73	<=30	Pass
			24	20.31	-0.80	19.51	<=30	Pass
		12	0	19.85	-0.80	19.05	<=30	Pass
			6	20.00	-0.80	19.20	<=30	Pass
			13	19.82	-0.80	19.02	<=30	Pass
		25	0	19.80	-0.80	19.00	<=30	Pass
	1752.5	1	0	20.37	-0.80	19.57	<=30	Pass
			13	20.47	-0.80	19.67	<=30	Pass
			24	20.56	-0.80	19.76	<=30	Pass
		12	0	19.94	-0.80	19.14	<=30	Pass
			6	19.92	-0.80	19.12	<=30	Pass
			13	19.78	-0.80	18.98	<=30	Pass
		25	0	19.67	-0.80	18.87	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	21.84	-0.80	21.04	<=30	Pass
			25	22.28	-0.80	21.48	<=30	Pass
			49	21.94	-0.80	21.14	<=30	Pass
		25	0	20.87	-0.80	20.07	<=30	Pass
			13	20.68	-0.80	19.88	<=30	Pass
			25	20.73	-0.80	19.93	<=30	Pass
		50	0	20.60	-0.80	19.80	<=30	Pass
	1732.5	1	0	21.89	-0.80	21.09	<=30	Pass
			25	22.22	-0.80	21.42	<=30	Pass
			49	21.82	-0.80	21.02	<=30	Pass
		25	0	20.86	-0.80	20.06	<=30	Pass
			13	20.86	-0.80	20.06	<=30	Pass
			25	20.80	-0.80	20.00	<=30	Pass
		50	0	20.83	-0.80	20.03	<=30	Pass
	1750	1	0	21.80	-0.80	21.00	<=30	Pass



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16QAM	1715	25	25	22.21	-0.80	21.41	<=30	Pass
			49	22.10	-0.80	21.30	<=30	Pass
			0	20.80	-0.80	20.00	<=30	Pass
			13	20.78	-0.80	19.98	<=30	Pass
			25	20.76	-0.80	19.96	<=30	Pass
		50	0	20.73	-0.80	19.93	<=30	Pass
		1	0	20.69	-0.80	19.89	<=30	Pass
			25	20.73	-0.80	19.93	<=30	Pass
			49	20.30	-0.80	19.50	<=30	Pass
			0	19.76	-0.80	18.96	<=30	Pass
			13	19.83	-0.80	19.03	<=30	Pass
			25	19.81	-0.80	19.01	<=30	Pass
	1732.5	25	0	19.81	-0.80	19.01	<=30	Pass
			0	20.69	-0.80	19.89	<=30	Pass
			25	20.81	-0.80	20.01	<=30	Pass
			49	20.42	-0.80	19.62	<=30	Pass
			0	19.87	-0.80	19.07	<=30	Pass
		1	13	19.97	-0.80	19.17	<=30	Pass
			25	19.81	-0.80	19.01	<=30	Pass
			0	19.82	-0.80	19.02	<=30	Pass
			0	20.62	-0.80	19.82	<=30	Pass
			25	20.68	-0.80	19.88	<=30	Pass
	1750	25	49	20.61	-0.80	19.81	<=30	Pass
			0	19.87	-0.80	19.07	<=30	Pass
			13	19.98	-0.80	19.18	<=30	Pass
			25	19.79	-0.80	18.99	<=30	Pass
			0	19.68	-0.80	18.88	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN/V								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	22.17	-0.80	21.37	<=30	Pass
			38	22.02	-0.80	21.22	<=30	Pass
			74	21.93	-0.80	21.13	<=30	Pass
		36	0	20.88	-0.80	20.08	<=30	Pass
			18	20.94	-0.80	20.14	<=30	Pass
			39	20.82	-0.80	20.02	<=30	Pass
		75	0	20.95	-0.80	20.15	<=30	Pass
			0	21.96	-0.80	21.16	<=30	Pass
	1732.5	1	38	22.08	-0.80	21.28	<=30	Pass



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16QAM	1747.5	36	74	21.69	-0.80	20.89	<=30	Pass
			0	20.91	-0.80	20.11	<=30	Pass
			18	20.93	-0.80	20.13	<=30	Pass
			39	20.71	-0.80	19.91	<=30	Pass
		75	0	20.84	-0.80	20.04	<=30	Pass
		1	0	22.07	-0.80	21.27	<=30	Pass
			38	22.02	-0.80	21.22	<=30	Pass
			74	21.97	-0.80	21.17	<=30	Pass
		36	0	21.01	-0.80	20.21	<=30	Pass
			18	20.76	-0.80	19.96	<=30	Pass
			39	20.70	-0.80	19.90	<=30	Pass
		75	0	20.72	-0.80	19.92	<=30	Pass
16QAM	1717.5	1	0	20.66	-0.80	19.86	<=30	Pass
			38	20.57	-0.80	19.77	<=30	Pass
			74	20.47	-0.80	19.67	<=30	Pass
		36	0	19.84	-0.80	19.04	<=30	Pass
			18	19.96	-0.80	19.16	<=30	Pass
			39	19.86	-0.80	19.06	<=30	Pass
		75	0	19.91	-0.80	19.11	<=30	Pass
	1732.5	1	0	20.67	-0.80	19.87	<=30	Pass
			38	20.52	-0.80	19.72	<=30	Pass
			74	20.13	-0.80	19.33	<=30	Pass
		36	0	19.79	-0.80	18.99	<=30	Pass
			18	19.95	-0.80	19.15	<=30	Pass
			39	19.71	-0.80	18.91	<=30	Pass
		75	0	19.99	-0.80	19.19	<=30	Pass
	1747.5	1	0	20.50	-0.80	19.70	<=30	Pass
			38	20.56	-0.80	19.76	<=30	Pass
			74	20.62	-0.80	19.82	<=30	Pass
		36	0	19.77	-0.80	18.97	<=30	Pass
			18	19.84	-0.80	19.04	<=30	Pass
			39	19.65	-0.80	18.85	<=30	Pass
		75	0	19.90	-0.80	19.10	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

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	22.01	-0.80	21.21	<=30	Pass
			50	22.36	-0.80	21.56	<=30	Pass
			99	21.90	-0.80	21.10	<=30	Pass



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16QAM	1732.5	50	0	20.89	-0.80	20.09	<=30	Pass
			25	20.91	-0.80	20.11	<=30	Pass
			50	20.96	-0.80	20.16	<=30	Pass
		100	0	20.98	-0.80	20.18	<=30	Pass
		1	0	21.90	-0.80	21.10	<=30	Pass
			50	22.27	-0.80	21.47	<=30	Pass
			99	21.83	-0.80	21.03	<=30	Pass
	1745	50	0	20.87	-0.80	20.07	<=30	Pass
			25	20.92	-0.80	20.12	<=30	Pass
			50	20.72	-0.80	19.92	<=30	Pass
		100	0	20.92	-0.80	20.12	<=30	Pass
		1	0	21.97	-0.80	21.17	<=30	Pass
			50	22.30	-0.80	21.50	<=30	Pass
			99	21.82	-0.80	21.02	<=30	Pass
	1720	50	0	20.91	-0.80	20.11	<=30	Pass
			25	20.85	-0.80	20.05	<=30	Pass
			50	20.74	-0.80	19.94	<=30	Pass
		100	0	20.43	-0.80	19.63	<=30	Pass
	1732.5	1	0	20.73	-0.80	19.93	<=30	Pass
			50	20.80	-0.80	20.00	<=30	Pass
			99	20.59	-0.80	19.79	<=30	Pass
		50	0	19.99	-0.80	19.19	<=30	Pass
			25	20.07	-0.80	19.27	<=30	Pass
			50	19.96	-0.80	19.16	<=30	Pass
	1745	1	0	20.51	-0.80	19.71	<=30	Pass
			50	20.76	-0.80	19.96	<=30	Pass
			99	20.47	-0.80	19.67	<=30	Pass
		50	0	19.83	-0.80	19.03	<=30	Pass
			25	19.98	-0.80	19.18	<=30	Pass
			50	19.89	-0.80	19.09	<=30	Pass
	1720	1	0	20.64	-0.80	19.84	<=30	Pass
			50	20.72	-0.80	19.92	<=30	Pass
			99	20.42	-0.80	19.62	<=30	Pass
		50	0	19.97	-0.80	19.17	<=30	Pass
			25	19.81	-0.80	19.01	<=30	Pass
			50	19.72	-0.80	18.92	<=30	Pass
	1732.5	1	0	19.81	-0.80	19.01	<=30	Pass
			50	19.81	-0.80	19.01	<=30	Pass
			99	19.81	-0.80	19.01	<=30	Pass
		50	0	19.81	-0.80	19.01	<=30	Pass
			25	19.81	-0.80	19.01	<=30	Pass
			50	19.81	-0.80	19.01	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability



2.1 Test Result

2.1.1 B4_10MHz

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	1732.5	50	0	20	LV	-0.400	-0.0002	-2.5 to 2.5	Pass
					NV	1.700	0.0010	-2.5 to 2.5	Pass
					HV	-0.800	-0.0005	-2.5 to 2.5	Pass
				-30	NV	-0.900	-0.0005	-2.5 to 2.5	Pass
				-20	NV	0.400	0.0002	-2.5 to 2.5	Pass
				-10	NV	0.300	0.0002	-2.5 to 2.5	Pass
				0	NV	-1.100	-0.0006	-2.5 to 2.5	Pass
				10	NV	-0.800	-0.0005	-2.5 to 2.5	Pass
				30	NV	-0.700	-0.0004	-2.5 to 2.5	Pass
				40	NV	-1.100	-0.0006	-2.5 to 2.5	Pass
				50	NV	-1.000	-0.0006	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band4_OBW

Band: 4 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.082	/	Pass
	16QAM	1732.5	6	0	1.080	/	Pass
3	QPSK	1732.5	15	0	2.685	/	Pass
	16QAM	1732.5	15	0	2.678	/	Pass
5	QPSK	1732.5	25	0	4.485	/	Pass
	16QAM	1732.5	25	0	4.472	/	Pass
10	QPSK	1732.5	50	0	8.948	/	Pass
	16QAM	1732.5	50	0	8.949	/	Pass
15	QPSK	1732.5	75	0	13.382	/	Pass
	16QAM	1732.5	75	0	13.414	/	Pass
20	QPSK	1732.5	100	0	17.857	/	Pass
	16QAM	1732.5	100	0	17.899	/	Pass

3.1.2 Band4_XDB



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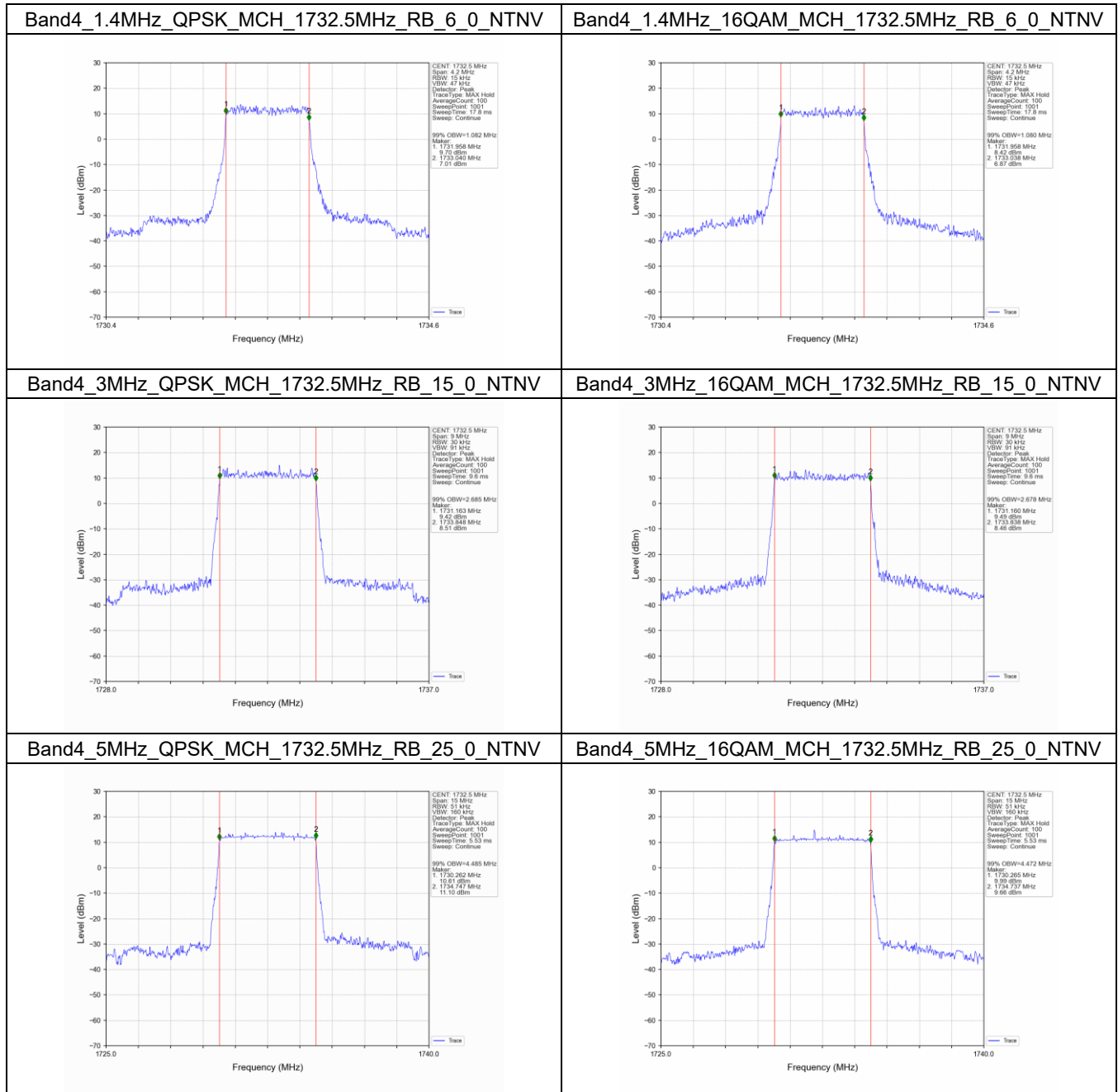
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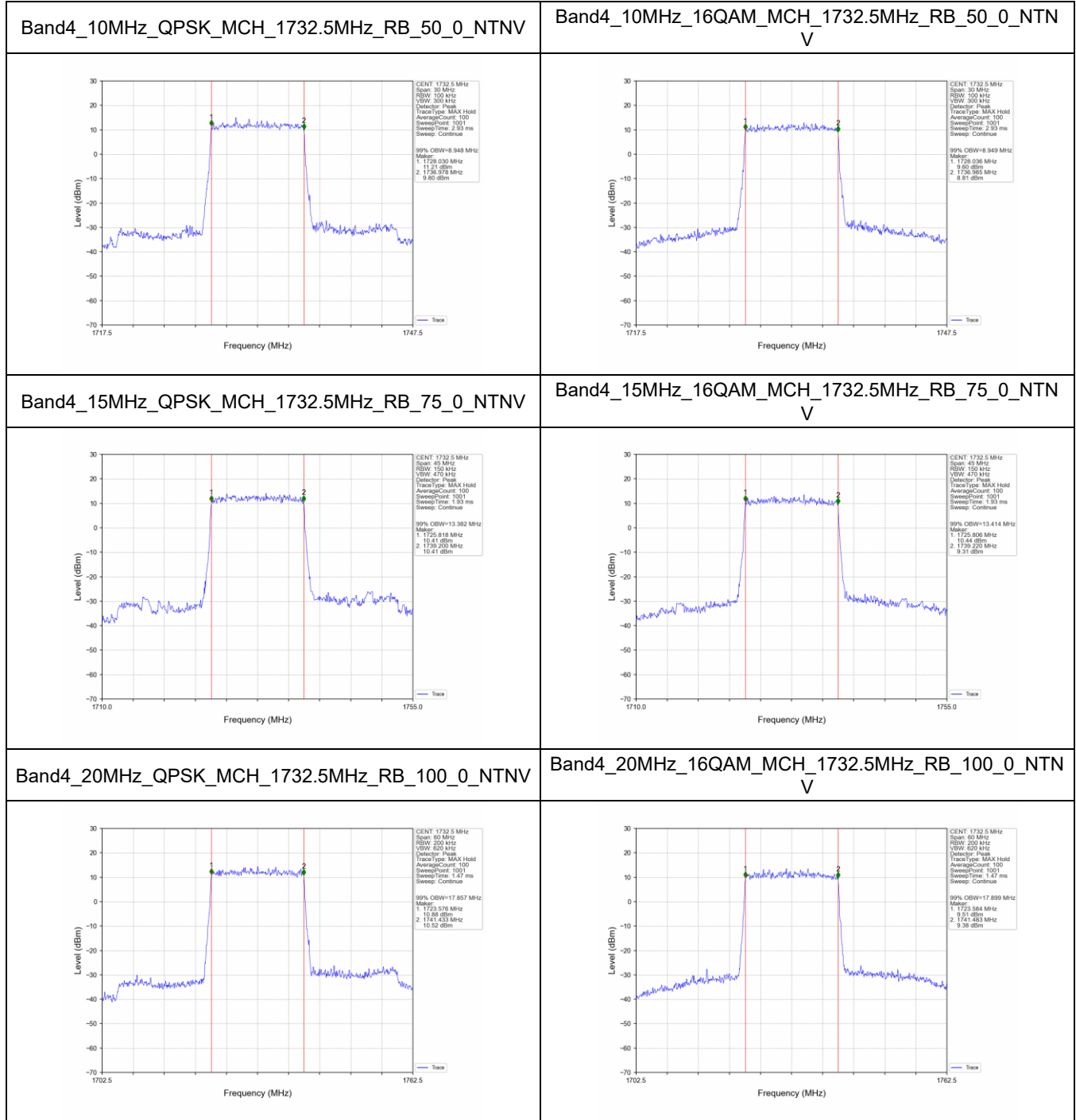
Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.239	/	Pass
	16QAM	1732.5	6	0	1.263	/	Pass
3	QPSK	1732.5	15	0	2.914	/	Pass
	16QAM	1732.5	15	0	2.927	/	Pass
5	QPSK	1732.5	25	0	4.910	/	Pass
	16QAM	1732.5	25	0	4.838	/	Pass
10	QPSK	1732.5	50	0	9.578	/	Pass
	16QAM	1732.5	50	0	9.607	/	Pass
15	QPSK	1732.5	75	0	14.353	/	Pass
	16QAM	1732.5	75	0	14.373	/	Pass
20	QPSK	1732.5	100	0	19.242	/	Pass
	16QAM	1732.5	100	0	19.051	/	Pass



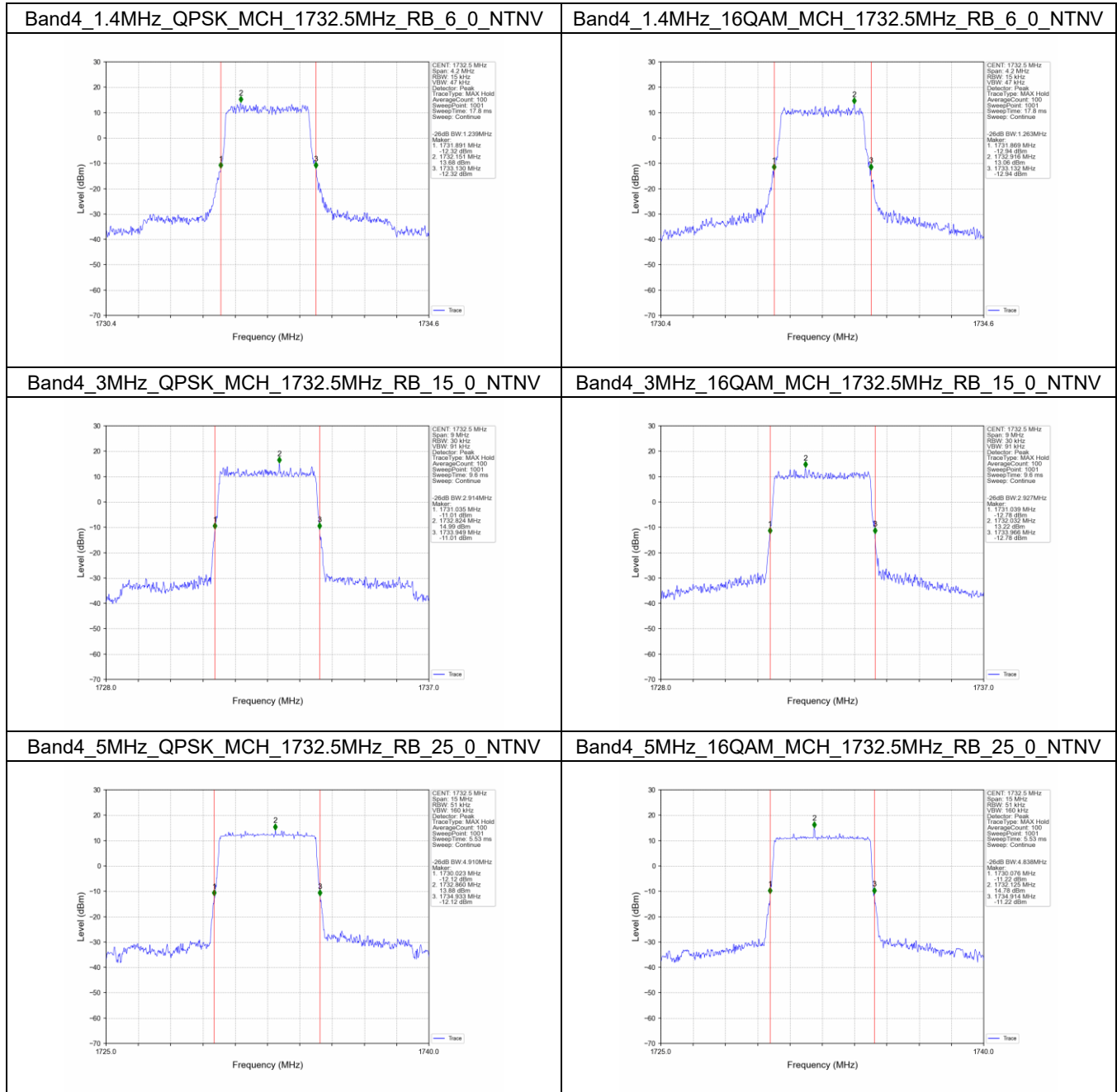
3.2 Test Graph

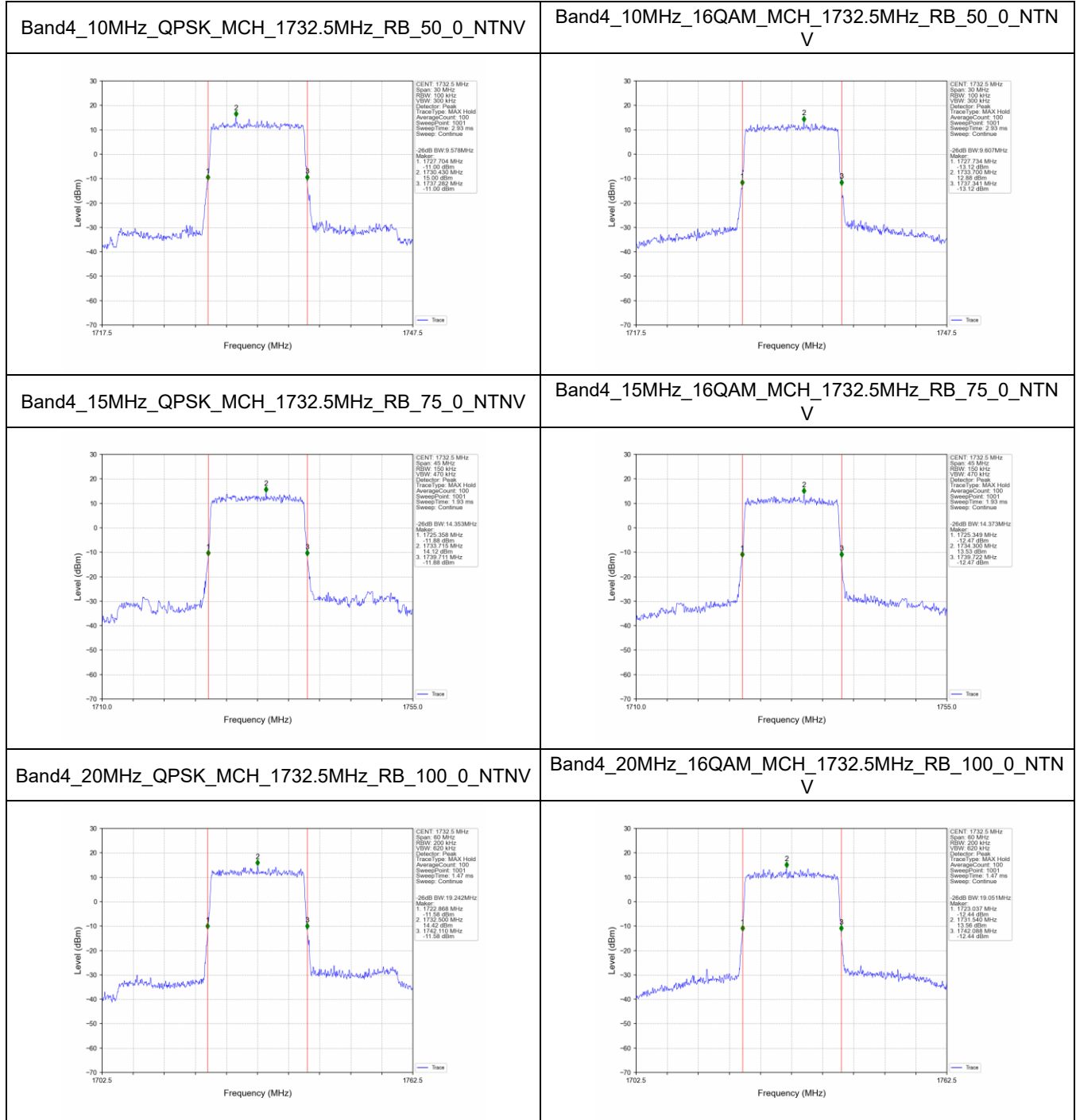
3.2.1 Band4_OBW





3.2.2 Band4_XDB







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4. Peak-Average Ratio

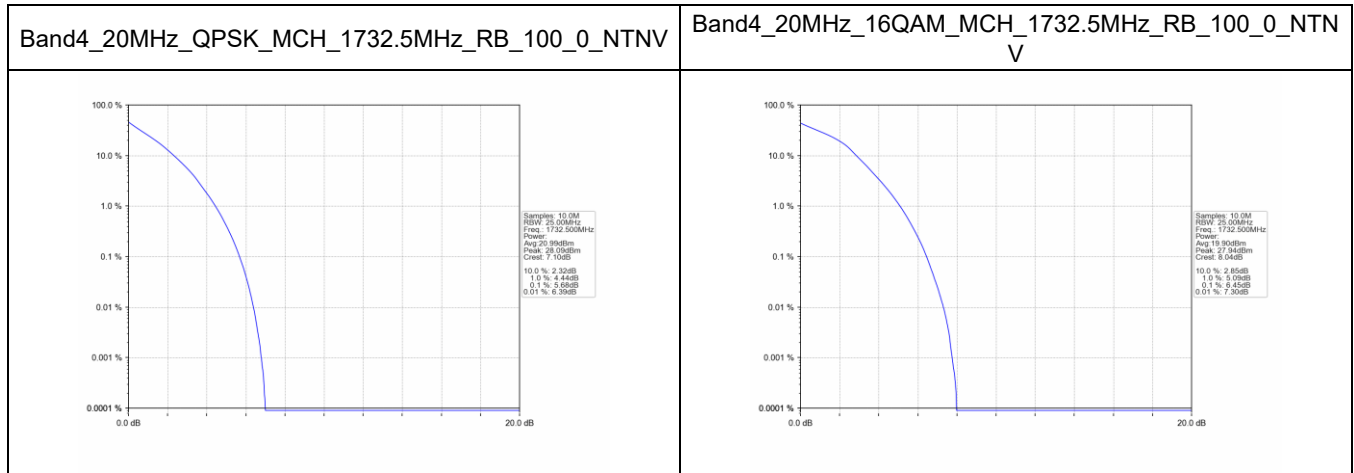
4.1 Test Result

4.1.1 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	5.68	<=13	Pass
16QAM	1732.5	100	0	6.45	<=13	Pass

4.2 Test Graph

4.2.1 B4_20MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
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
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

5.1.2 B4_3MHz

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

5.1.3 B4_5MHz

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

5.1.4 B4_10MHz



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

5.1.5 B4_15MHz

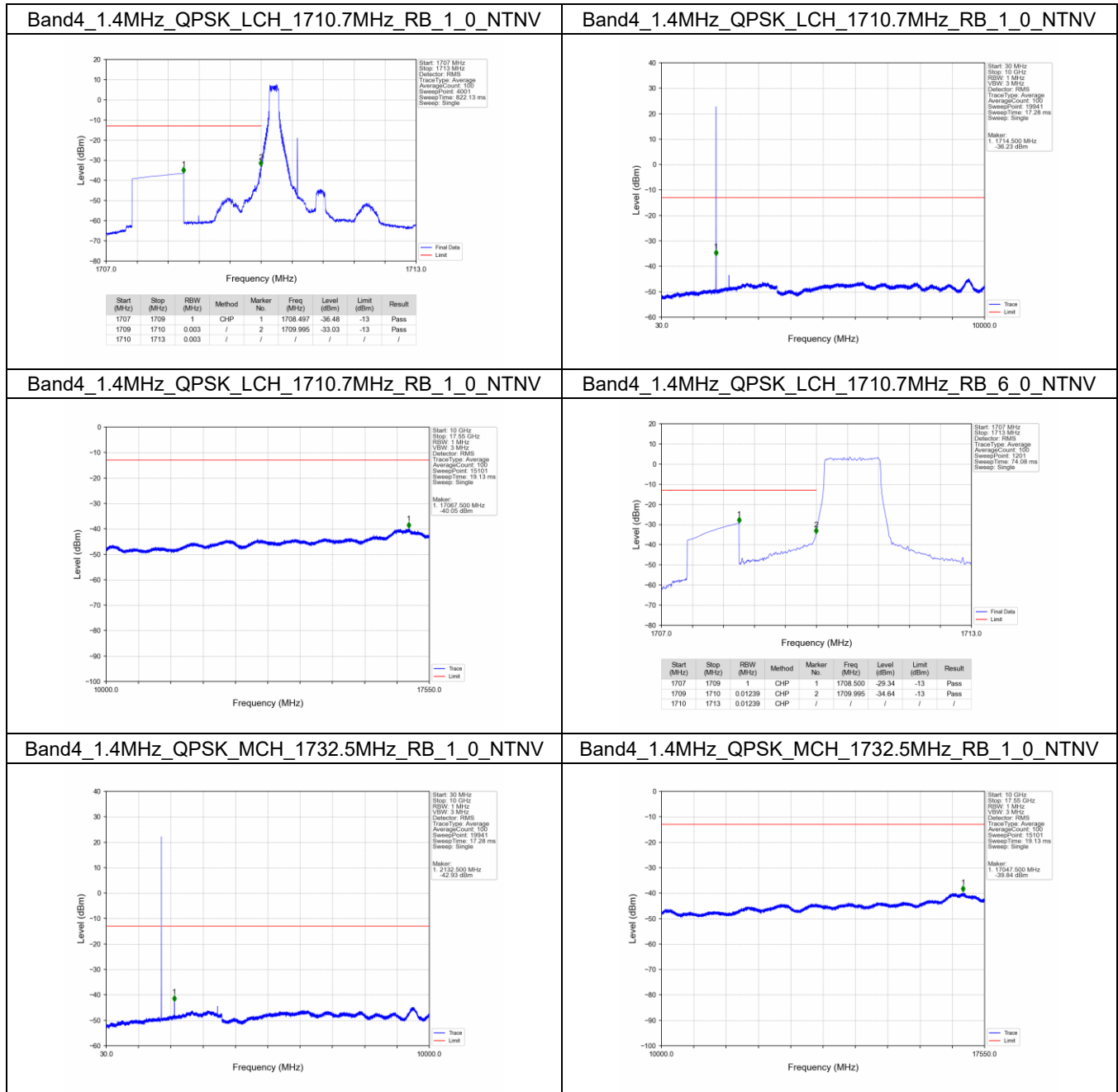
Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1747.5	1	0	Refer To Test Graph		Pass
			74	Refer To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

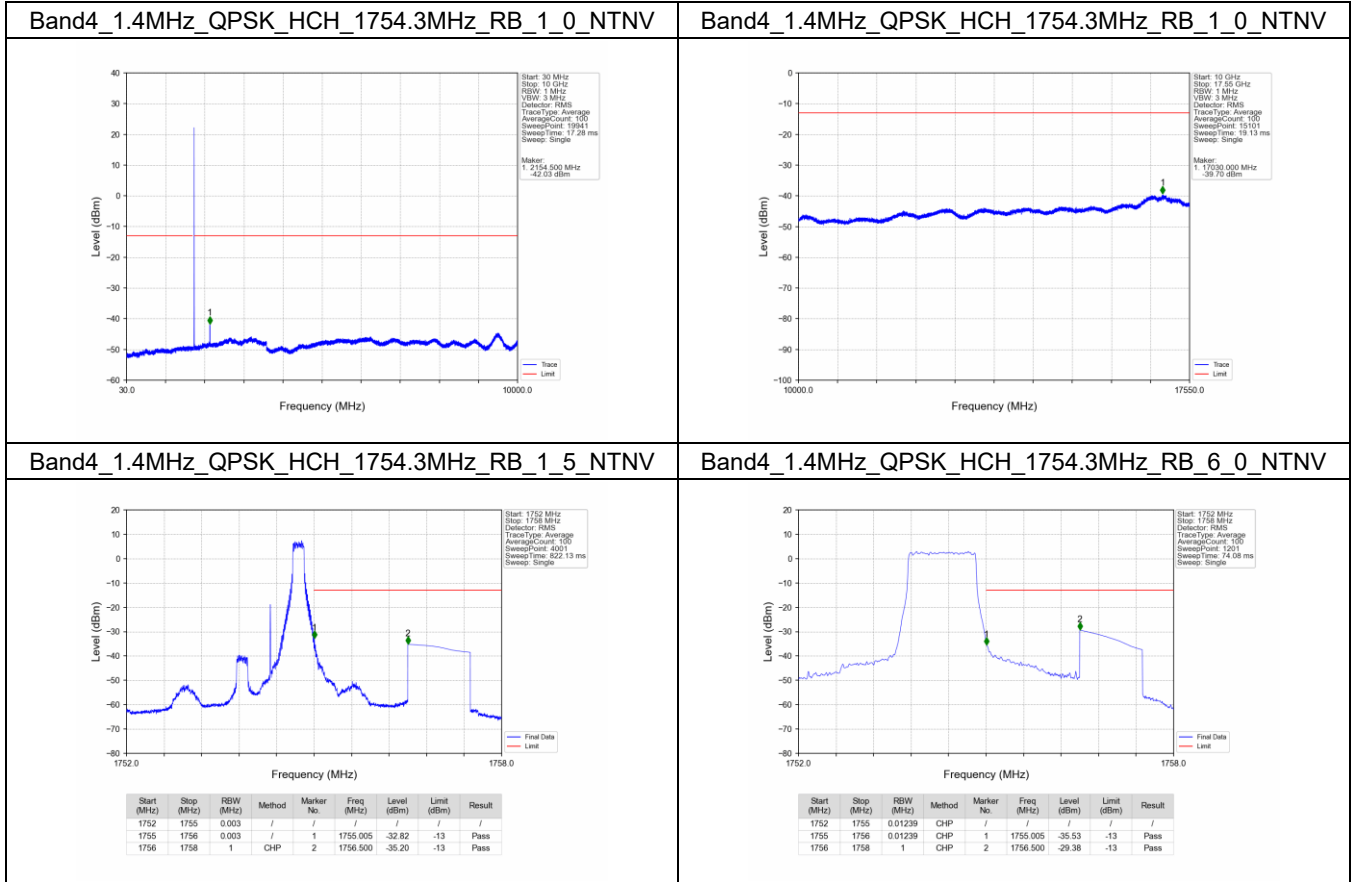
5.1.6 B4_20MHz

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

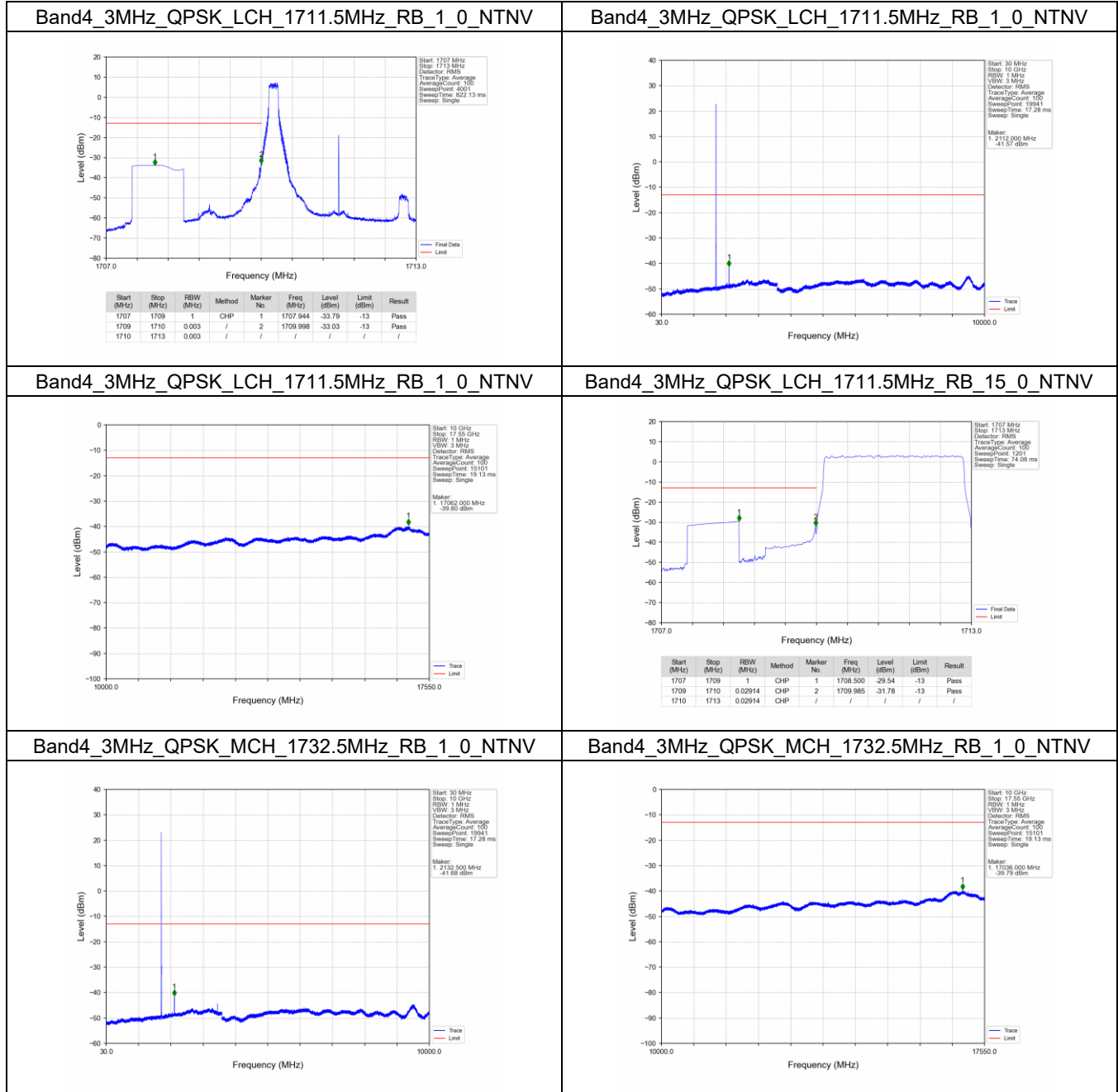
5.2 Test Graph

5.2.1 B4_1.4MHz



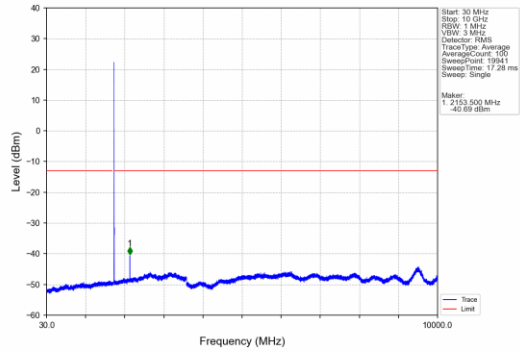


5.2.2 B4_3MHz

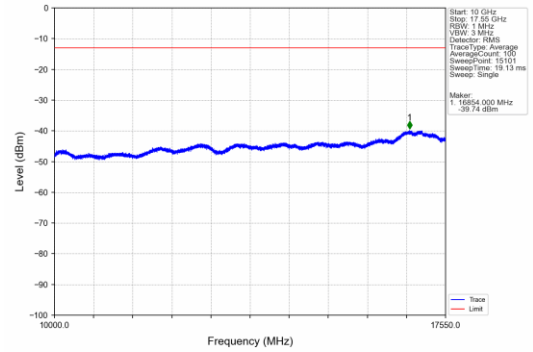




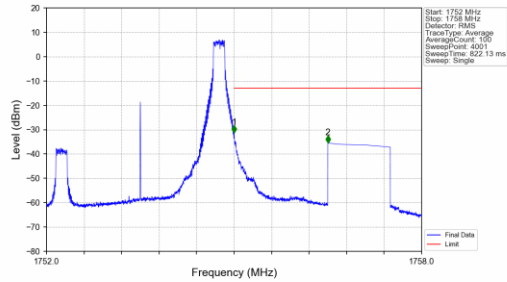
Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV



Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_0_NTNV

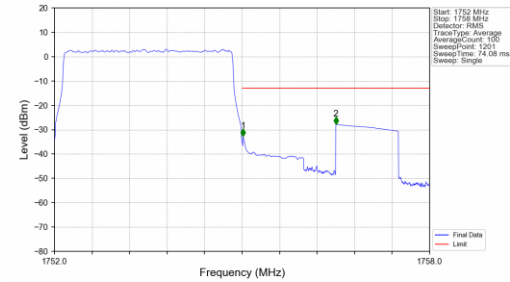


Band4_3MHz_QPSK_HCH_1753.5MHz_RB_1_14_NTNV



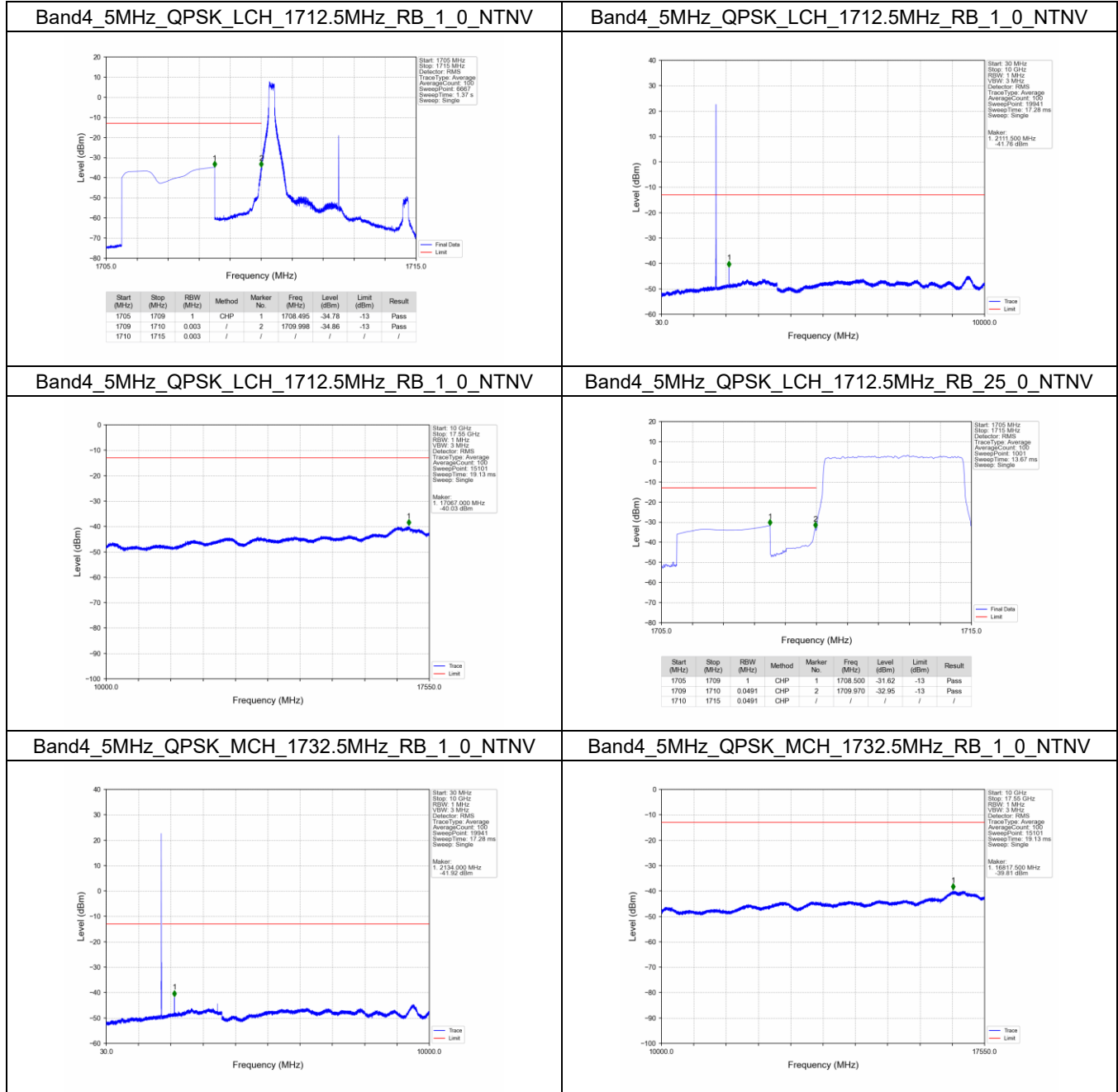
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-31.28	-13	Pass
1756	1758	1	CHP	2	1756.500	-35.45	-13	Pass

Band4_3MHz_QPSK_HCH_1753.5MHz_RB_15_0_NTNV



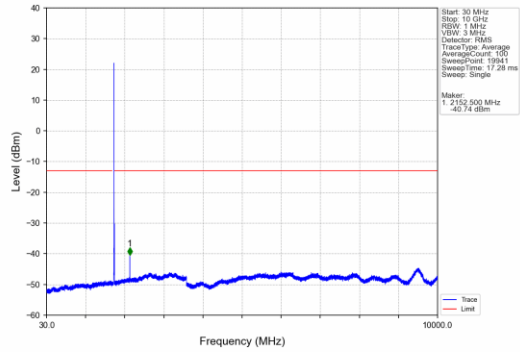
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.02914	CHP	/	/	/	/	/
1755	1756	0.02914	CHP	1	1755.015	-32.70	-13	Pass
1756	1758	1	CHP	2	1756.500	-27.69	-13	Pass

5.2.3 B4_5MHz

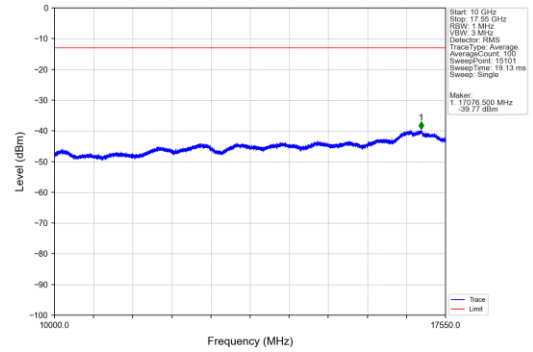




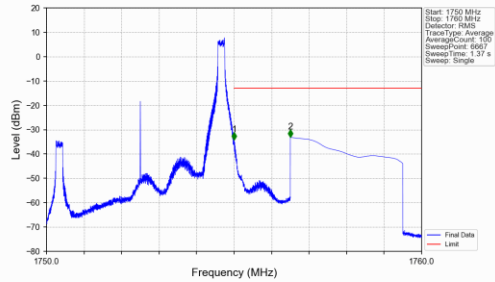
Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV



Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_0_NTNV

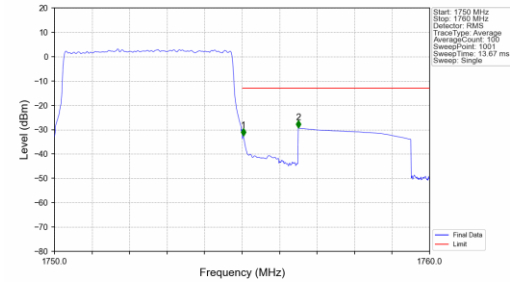


Band4_5MHz_QPSK_HCH_1752.5MHz_RB_1_24_NTNV



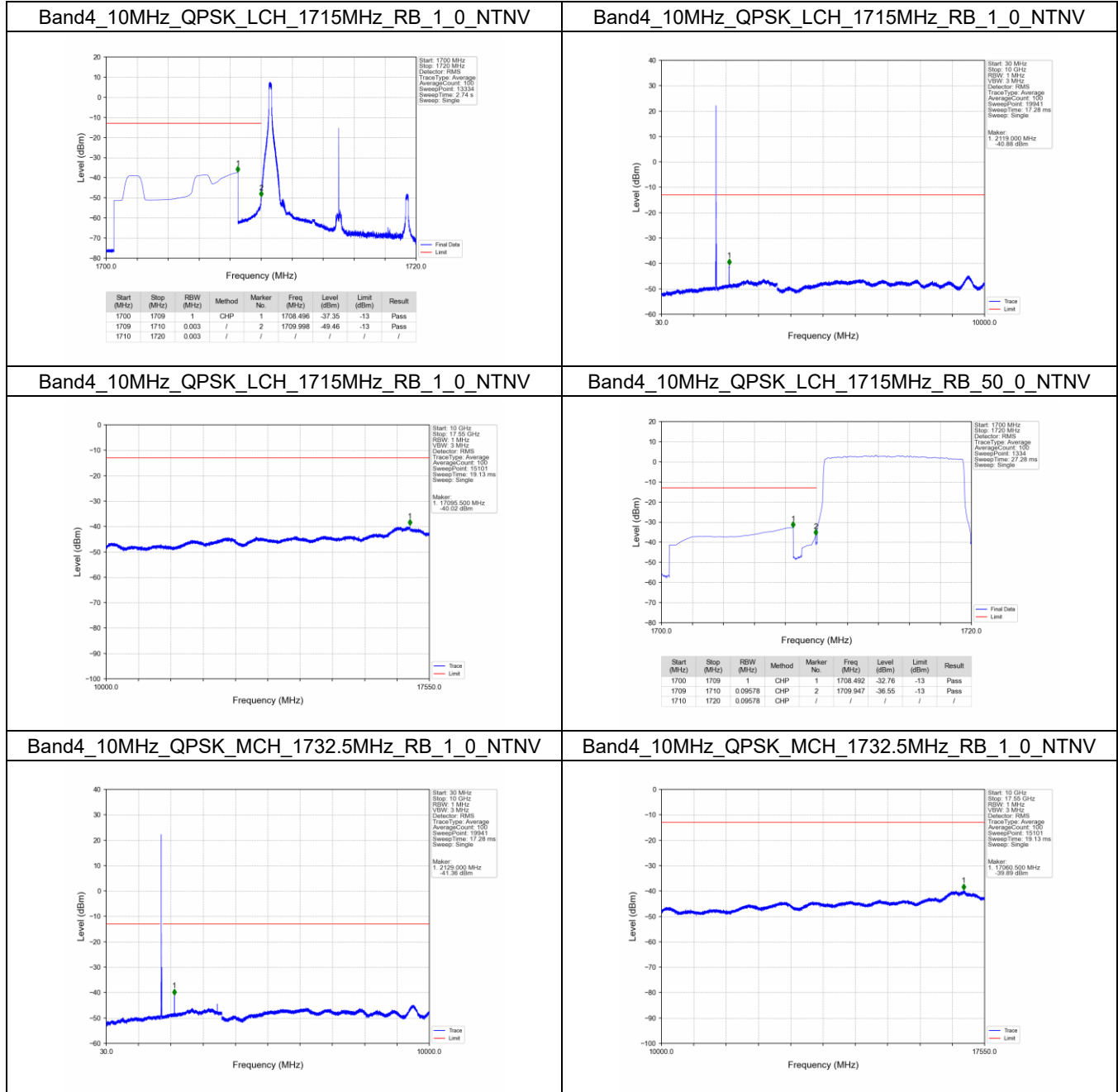
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.000	-34.26	-13	Pass
1756	1760	1	CHP	2	1756.500	-33.09	-13	Pass

Band4_5MHz_QPSK_HCH_1752.5MHz_RB_25_0_NTNV



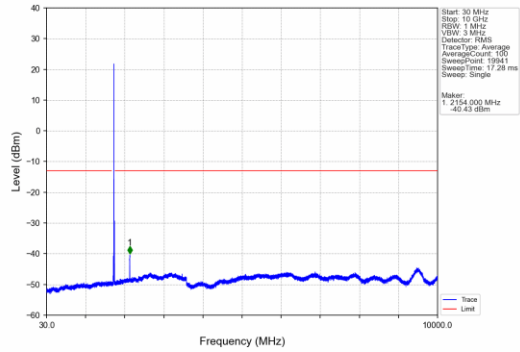
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.0491	CHP	/	/	/	/	/
1755	1756	0.0491	CHP	1	1755.000	-32.54	-13	Pass
1756	1760	1	CHP	2	1756.500	-29.33	-13	Pass

5.2.4 B4_10MHz

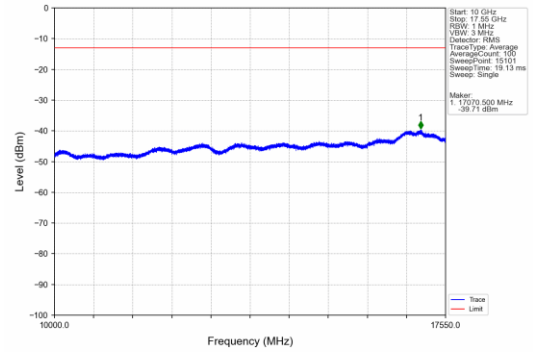




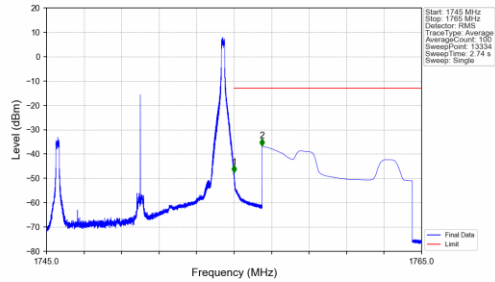
Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV



Band4_10MHz_QPSK_HCH_1750MHz_RB_1_0_NTNV

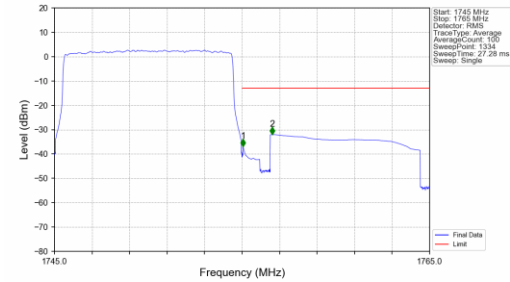


Band4_10MHz_QPSK_HCH_1750MHz_RB_1_49_NTNV



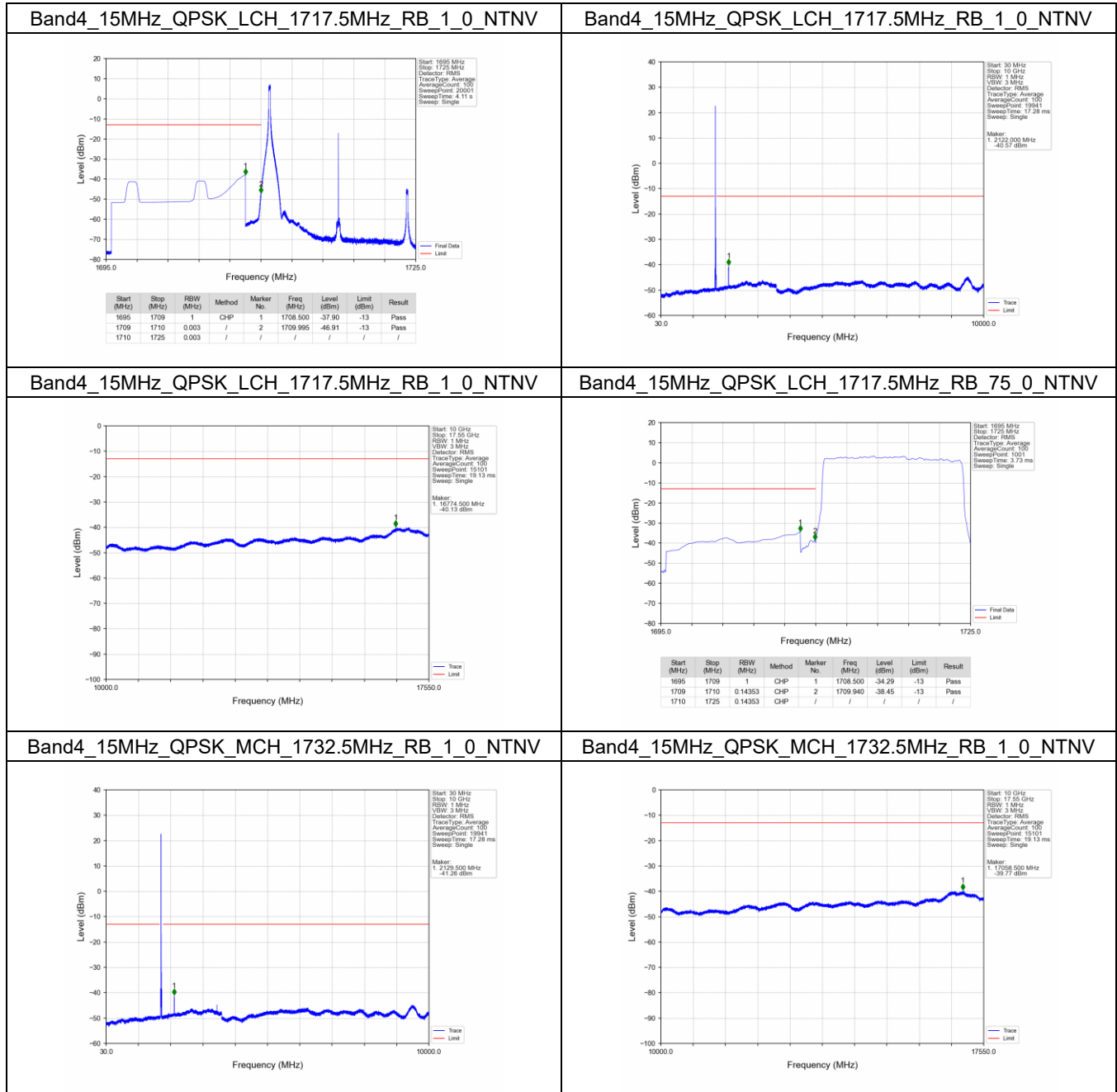
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.004	-47.65	-13	Pass
1756	1765	1	CHP	2	1756.501	-36.82	-13	Pass

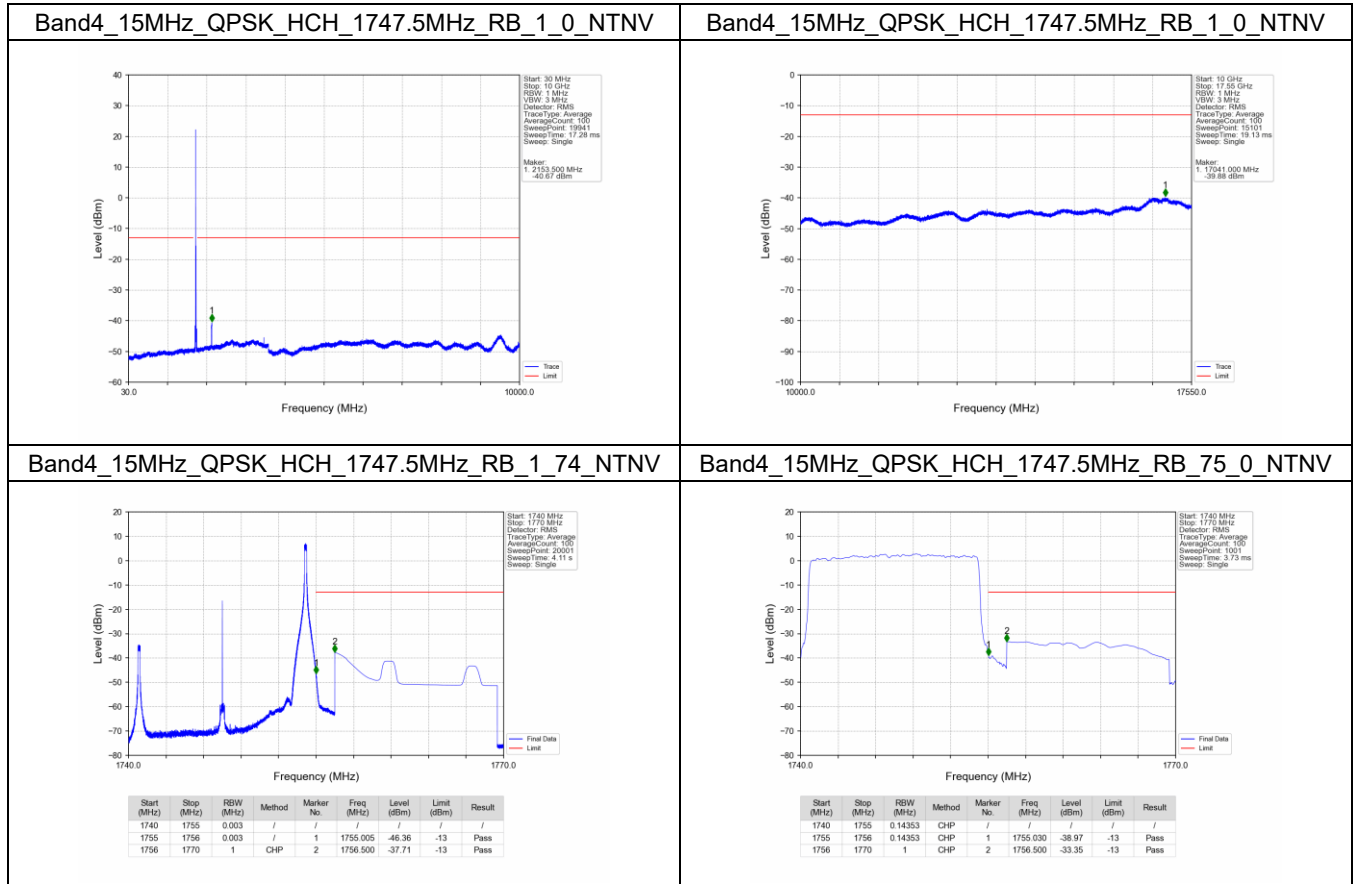
Band4_10MHz_QPSK_HCH_1750MHz_RB_50_0_NTNV



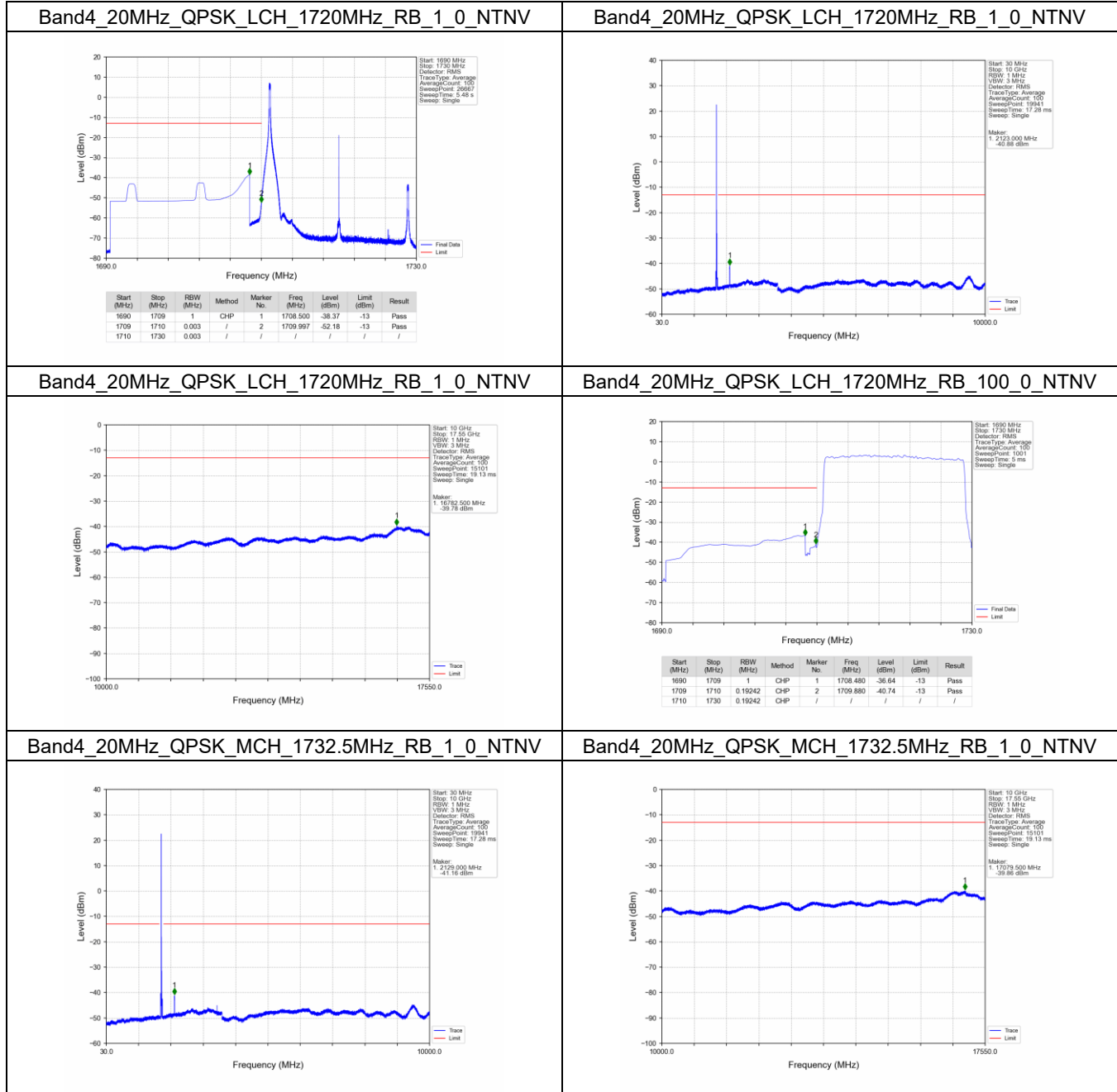
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.00578	CHP	/	/	/	/	/
1755	1756	0.00578	CHP	1	1755.653	-37.02	-13	Pass
1756	1765	1	CHP	2	1756.613	-32.05	-13	Pass

5.2.5 B4_15MHz



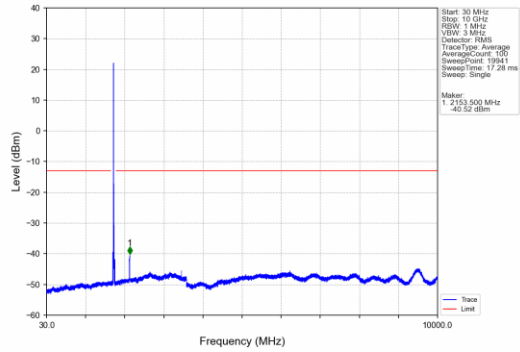


5.2.6 B4_20MHz

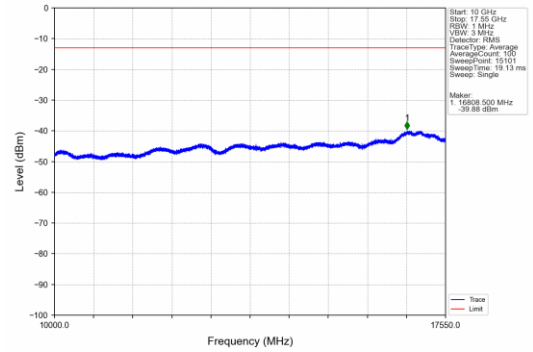




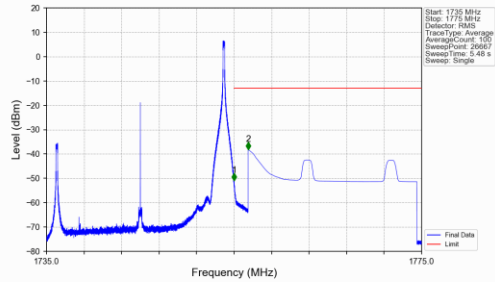
Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV



Band4_20MHz_QPSK_HCH_1745MHz_RB_1_0_NTNV

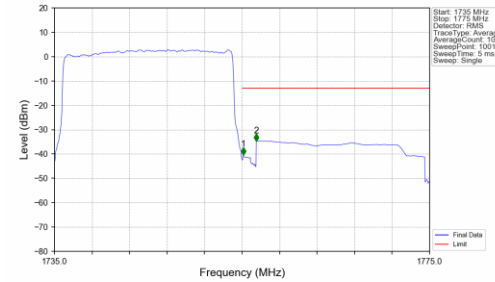


Band4_20MHz_QPSK_HCH_1745MHz_RB_1_99_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.025	-51.05	-13	Pass
1756	1775	1	CHP	2	1756.500	-38.16	-13	Pass

Band4_20MHz_QPSK_HCH_1745MHz_RB_100_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.19242	CHP	/	/	/	/	/
1755	1756	0.19242	CHP	1	1755.120	-40.33	-13	Pass
1756	1775	1	CHP	2	1756.520	-34.60	-13	Pass



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6. Frequency Stability (IC)

6.1 Test Result

6.1.1 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	OBW (FL - FH) (MHz)		Limit	Verdict
		Size	Offset			FL	FH		
QPSK	1732.5	50	0	20	LV	1727.971	1736.971	1725 to 1740	Pass
					NV	1727.998	1736.989	1725 to 1740	Pass
					HV	1727.993	1736.992	1725 to 1740	Pass
				-30	NV	1727.981	1736.991	1725 to 1740	Pass
				-20	NV	1727.971	1736.973	1725 to 1740	Pass
				-10	NV	1727.988	1736.996	1725 to 1740	Pass
				0	NV	1727.978	1736.988	1725 to 1740	Pass
				10	NV	1727.986	1736.991	1725 to 1740	Pass
				30	NV	1727.993	1736.977	1725 to 1740	Pass
				40	NV	1727.993	1736.986	1725 to 1740	Pass
				50	NV	1727.974	1736.994	1725 to 1740	Pass

---End of Attachment---