Appendix Test Data for LTE_band_17

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	24.22	-4.20	17.87	<=34.77	Pass
			13	24.33	-4.20	17.98	<=34.77	Pass
			24	24.24	-4.20	17.89	<=34.77	Pass
		12	0	23.20	-4.20	16.85	<=34.77	Pass
			6	23.33	-4.20	16.98	<=34.77	Pass
			13	23.37	-4.20	17.02	<=34.77	Pass
		25	0	23.34	-4.20	16.99	<=34.77	Pass
	710	1	0	24.17	-4.20	17.82	<=34.77	Pass
			13	24.31	-4.20	17.96	<=34.77	Pass
			24	24.22	-4.20	17.87	<=34.77	Pass
		12	0	23.20	-4.20	16.85	<=34.77	Pass
			6	23.30	-4.20	16.95	<=34.77	Pass
			13	23.18	-4.20	16.83	<=34.77	Pass
		25	0	23.20	-4.20	16.85	<=34.77	Pass
	713.5	1	0	24.16	-4.20	17.81	<=34.77	Pass
			13	24.34	-4.20	17.99	<=34.77	Pass
			24	24.23	-4.20	17.88	<=34.77	Pass
		12	0	23.34	-4.20	16.99	<=34.77	Pass
			6	23.36	-4.20	17.01	<=34.77	Pass
			13	23.26	-4.20	16.91	<=34.77	Pass
		25	0	23.31	-4.20	16.96	<=34.77	Pass
16QAM	706.5	1	0	23.25	-4.20	16.90	<=34.77	Pass
			13	23.39	-4.20	17.04	<=34.77	Pass
			24	23.30	-4.20	16.95	<=34.77	Pass
		12	0	22.27	-4.20	15.92	<=34.77	Pass
			6	22.37	-4.20	16.02	<=34.77	Pass
			13	22.36	-4.20	16.01	<=34.77	Pass
		25	0	22.36	-4.20	16.01	<=34.77	Pass
	710	1	0	23.40	-4.20	17.05	<=34.77	Pass
			13	23.50	-4.20	17.15	<=34.77	Pass
			24	23.42	-4.20	17.07	<=34.77	Pass
		12	0	22.29	-4.20	15.94	<=34.77	Pass
			6	22.36	-4.20	16.01	<=34.77	Pass
			13	22.25	-4.20	15.90	<=34.77	Pass
		25	0	22.24	-4.20	15.89	<=34.77	Pass
	713.5	1	0	22.97	-4.20	16.62	<=34.77	Pass
			13	23.15	-4.20	16.80	<=34.77	Pass
			24	23.06	-4.20	16.71	<=34.77	Pass
		12	0	22.36	-4.20	16.01	<=34.77	Pass
			6	22.39	-4.20	16.04	<=34.77	Pass
			13	22.26	-4.20	15.91	<=34.77	Pass
		25	0	22.38	-4.20	16.03	<=34.77	Pass

Band: 17 / Bandwidth: 5MHz / NTNV

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	24.17	-4.20	17.82	<=34.77	Pass
			25	24.43	-4.20	18.08	<=34.77	Pass
			49	24.28	-4.20	17.93	<=34.77	Pass
		25	0	23.20	-4.20	16.85	<=34.77	Pass
			13	23.29	-4.20	16.94	<=34.77	Pass
			25	23.21	-4.20	16.86	<=34.77	Pass
		50	0	23.26	-4.20	16.91	<=34.77	Pass
	710	1	0	24.20	-4.20	17.85	<=34.77	Pass
			25	24.36	-4.20	18.01	<=34.77	Pass
			49	24.30	-4.20	17.95	<=34.77	Pass
		25	0	23.15	-4.20	16.80	<=34.77	Pass
			13	23.29	-4.20	16.94	<=34.77	Pass
			25	23.18	-4.20	16.83	<=34.77	Pass
		50	0	23.19	-4.20	16.84	<=34.77	Pass
	711	1	0	24.26	-4.20	17.91	<=34.77	Pass
			25	24.42	-4.20	18.07	<=34.77	Pass
			49	24.42	-4.20	18.07	<=34.77	Pass
		25	0	23.19	-4.20	16.84	<=34.77	Pass
			13	23.28	-4.20	16.93	<=34.77	Pass
			25	23.20	-4.20	16.85	<=34.77	Pass
		50	0	23.24	-4.20	16.89	<=34.77	Pass
16QAM	709	1	0	23.34	-4.20	16.99	<=34.77	Pass
			25	23.56	-4.20	17.21	<=34.77	Pass
			49	23.42	-4.20	17.07	<=34.77	Pass
		25	0	22.30	-4.20	15.95	<=34.77	Pass
			13	22.36	-4.20	16.01	<=34.77	Pass
			25	22.29	-4.20	15.94	<=34.77	Pass
		50	0	22.34	-4.20	15.99	<=34.77	Pass
	710	1	0	23.71	-4.20	17.36	<=34.77	Pass
			25	23.85	-4.20	17.50	<=34.77	Pass
			49	23.80	-4.20	17.45	<=34.77	Pass
		25	0	22.28	-4.20	15.93	<=34.77	Pass
			13	22.40	-4.20	16.05	<=34.77	Pass
			25	22.29	-4.20	15.94	<=34.77	Pass
		50	0	22.25	-4.20	15.90	<=34.77	Pass
	711	1	0	23.26	-4.20	16.91	<=34.77	Pass
			25	23.43	-4.20	17.08	<=34.77	Pass
			49	23.32	-4.20	16.97	<=34.77	Pass
		25	0	22.32	-4.20	15.97	<=34.77	Pass
			13	22.40	-4.20	16.05	<=34.77	Pass
			25	22.33	-4.20	15.98	<=34.77	Pass
		50	0	22.33	-4.20	15.98	<=34.77	Pass

Band: 17 / Bandwidth: 10MHz / NTNV

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B17_5MHz

Band: 17 / Bandwidth: 5MHz								
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	706.5	25	0	20	3.27	-5.136	-0.0073	-2.5 to 2.5	Pass
					3.85	-7.653	-0.0108	-2.5 to 2.5	Pass
					4.43	-7.081	-0.0100	-2.5 to 2.5	Pass
				-30	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-7.896	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-9.027	-0.0128	-2.5 to 2.5	Pass
				10	3.85	-3.848	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-4.535	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-7.482	-0.0106	-2.5 to 2.5	Pass
				50	3.85	-7.596	-0.0108	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-3.204	-0.0045	-2.5 to 2.5	Pass
					3.85	-7.067	-0.0100	-2.5 to 2.5	Pass
					4.43	-4.334	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-7.181	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-6.037	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-6.008	-0.0085	-2.5 to 2.5	Pass
				0	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
				10	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-7.882	-0.0111	-2.5 to 2.5	Pass
				40	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				50	3.85	-7.954	-0.0112	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-4.320	-0.0061	-2.5 to 2.5	Pass
					3.85	-8.211	-0.0115	-2.5 to 2.5	Pass
					4.43	-8.240	-0.0115	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-9.170	-0.0129	-2.5 to 2.5	Pass
				-10	3.85	-7.524	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-8.368	-0.0117	-2.5 to 2.5	Pass
				10	3.85	-7.725	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-6.008	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-8.969	-0.0126	-2.5 to 2.5	Pass
				50	3.85	-7.195	-0.0101	-2.5 to 2.5	Pass
16QAM	706.5	25	0	20	3.27	-8.383	-0.0119	-2.5 to 2.5	Pass
					3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
					4.43	-5.293	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-4.306	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-5.965	-0.0084	-2.5 to 2.5	Pass
				-10	3.85	-5.765	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-6.537	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-6.337	-0.0090	-2.5 to 2.5	Pass
				40	3.85	-4.392	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-6.838	-0.0097	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-7.668	-0.0108	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0094	-2.5 to 2.5	Pass
					4.43	-7.710	-0.0109	-2.5 to 2.5	Pass
				-30	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
				-20	3.85	-3.505	-0.0049	-2.5 to 2.5	Pass
				-10	3.85	-8.082	-0.0114	-2.5 to 2.5	Pass

			0	3.85	-7.596	-0.0107	-2.5 to 2.5	Pass
			10	3.85	-3.605	-0.0051	-2.5 to 2.5	Pass
			30	3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
			40	3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
			50	3.85	-7.339	-0.0103	-2.5 to 2.5	Pass
713.5	25	0	20	3.27	-8.655	-0.0121	-2.5 to 2.5	Pass
				3.85	-6.380	-0.0089	-2.5 to 2.5	Pass
				4.43	-5.264	-0.0074	-2.5 to 2.5	Pass
			-30	3.85	-5.679	-0.0080	-2.5 to 2.5	Pass
			-20	3.85	-6.008	-0.0084	-2.5 to 2.5	Pass
			-10	3.85	-5.779	-0.0081	-2.5 to 2.5	Pass
			0	3.85	-6.523	-0.0091	-2.5 to 2.5	Pass
			10	3.85	-6.537	-0.0092	-2.5 to 2.5	Pass
			30	3.85	-5.379	-0.0075	-2.5 to 2.5	Pass
			40	3.85	-7.310	-0.0102	-2.5 to 2.5	Pass
			50	3.85	-8.540	-0.0120	-2.5 to 2.5	Pass

2.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz								
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.27	-7.854	-0.0111	-2.5 to 2.5	Pass
					3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
					4.43	-6.981	-0.0098	-2.5 to 2.5	Pass
				-30	3.85	-8.011	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-8.726	-0.0123	-2.5 to 2.5	Pass
				0	3.85	-6.909	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-6.366	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
				40	3.85	-7.410	-0.0105	-2.5 to 2.5	Pass
				50	3.85	-5.550	-0.0078	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-3.462	-0.0049	-2.5 to 2.5	Pass
					3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
					4.43	-4.778	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-7.439	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-6.595	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-7.381	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-9.427	-0.0133	-2.5 to 2.5	Pass
				10	3.85	-7.339	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-5.507	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-4.792	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-8.941	-0.0126	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-8.655	-0.0122	-2.5 to 2.5	Pass
					3.85	-6.337	-0.0089	-2.5 to 2.5	Pass
					4.43	-5.178	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0118	-2.5 to 2.5	Pass
				-10	3.85	-5.794	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-6.366	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-7.281	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-2.017	-0.0028	-2.5 to 2.5	Pass
				50	3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	-10.772	-0.0152	-2.5 to 2.5	Pass
					3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
					4.43	-8.068	-0.0114	-2.5 to 2.5	Pass

				-30	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-5.636	-0.0079	-2.5 to 2.5	Pass
				-10	3.85	-2.933	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-3.133	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
				40	3.85	-6.795	-0.0096	-2.5 to 2.5	Pass
				50	3.85	-6.523	-0.0092	-2.5 to 2.5	Pass
					3.27	-7.496	-0.0106	-2.5 to 2.5	Pass
				20	3.85	-9.570	-0.0135	-2.5 to 2.5	Pass
					4.43	-9.198	-0.0130	-2.5 to 2.5	Pass
				-30	3.85	-10.614	-0.0149	-2.5 to 2.5	Pass
	710	50	0	-20	3.85	-2.146	-0.0030	-2.5 to 2.5	Pass
				-10	3.85	-4.549	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-7.067	-0.0100	-2.5 to 2.5	Pass
				30	3.85	-8.569	-0.0121	-2.5 to 2.5	Pass
				40	3.85	-9.842	-0.0139	-2.5 to 2.5	Pass
				50	3.85	-8.783	-0.0124	-2.5 to 2.5	Pass
					3.27	-5.894	-0.0083	-2.5 to 2.5	Pass
				20	3.85	-4.435	-0.0062	-2.5 to 2.5	Pass
					4.43	-9.155	-0.0129	-2.5 to 2.5	Pass
				-30	3.85	-5.035	-0.0071	-2.5 to 2.5	Pass
	711	50	0	-20	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-8.483	-0.0119	-2.5 to 2.5	Pass
				0	3.85	-5.565	-0.0078	-2.5 to 2.5	Pass
				10	3.85	-3.948	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-5.579	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B17_5MHz

Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

3.2.2 B17_10MHz

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV
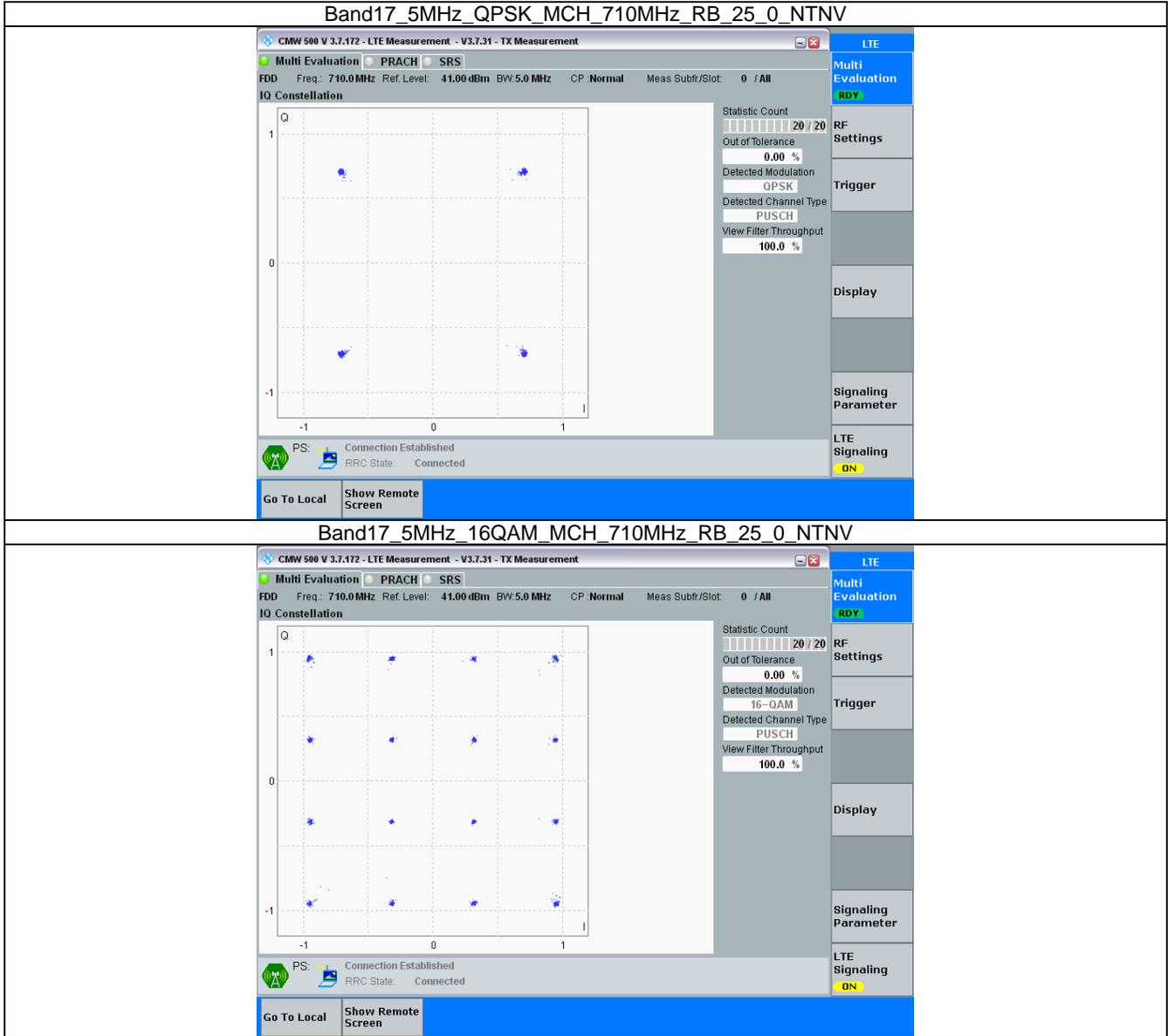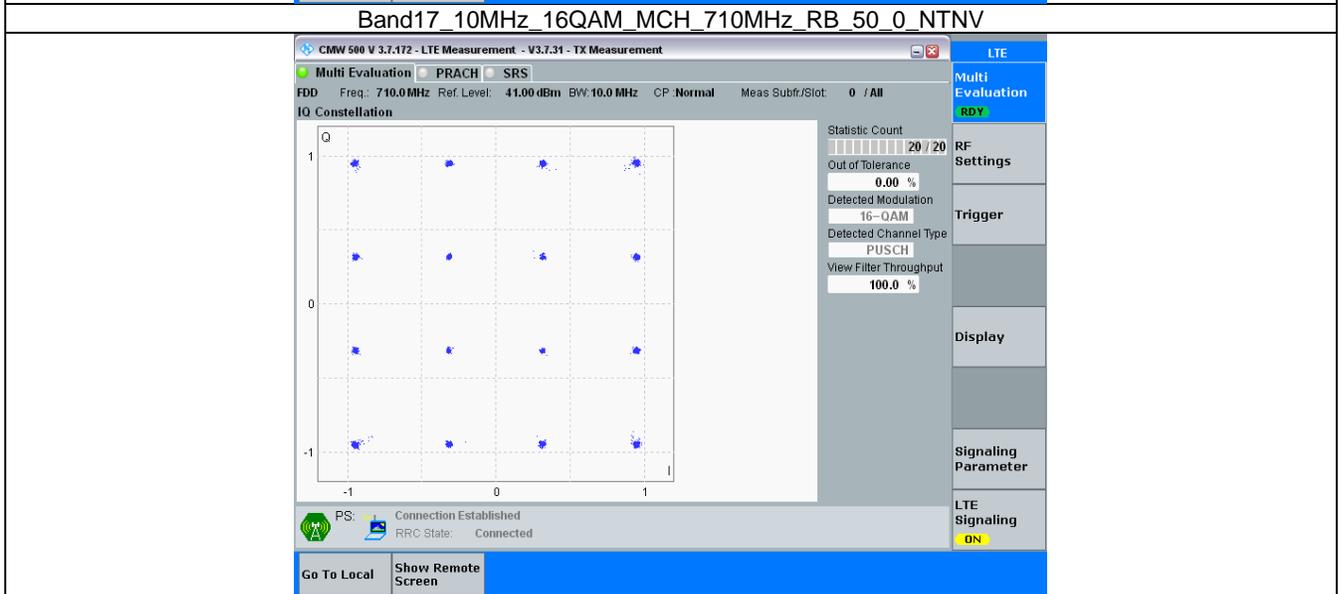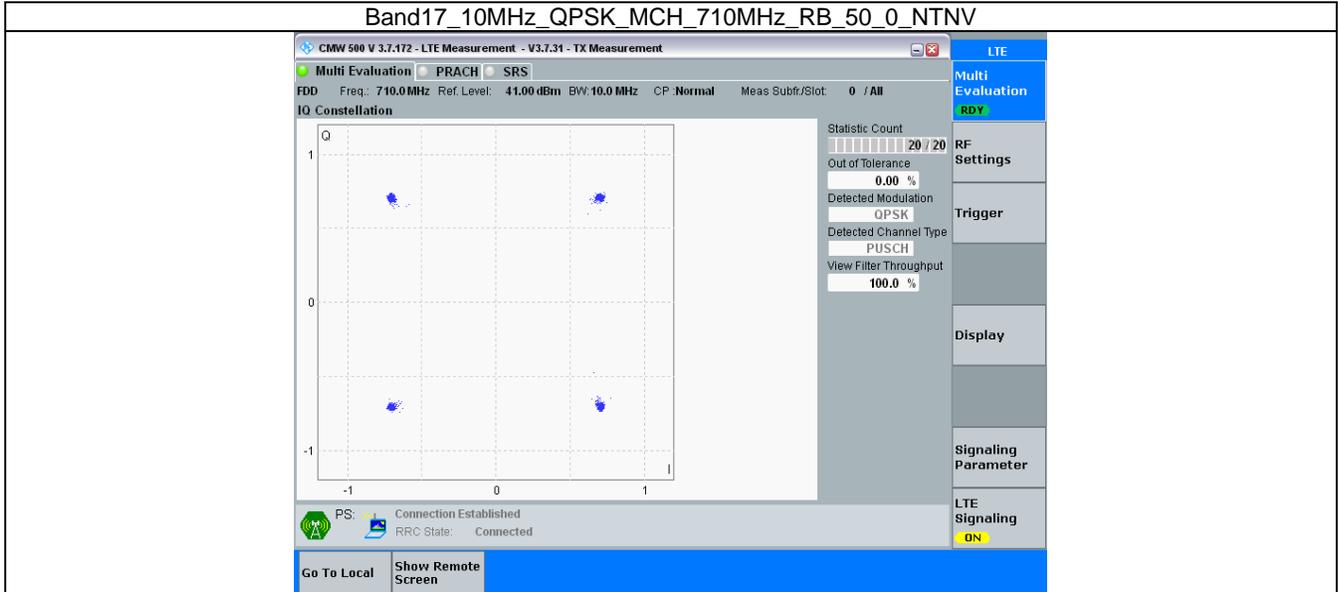
4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band17_OBW

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.568	/	Pass
		710	25	0	4.554	/	Pass
		713.5	25	0	4.580	/	Pass
	16QAM	706.5	25	0	4.603	/	Pass
		710	25	0	4.590	/	Pass
		713.5	25	0	4.572	/	Pass
10	QPSK	709	50	0	9.043	/	Pass
		710	50	0	9.055	/	Pass
		711	50	0	9.057	/	Pass
	16QAM	709	50	0	9.052	/	Pass
		710	50	0	9.037	/	Pass
		711	50	0	9.048	/	Pass

4.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.261	/	Pass
		710	25	0	5.241	/	Pass
		713.5	25	0	5.212	/	Pass
	16QAM	706.5	25	0	5.368	/	Pass
		710	25	0	5.264	/	Pass
		713.5	25	0	5.340	/	Pass
10	QPSK	709	50	0	10.137	/	Pass
		710	50	0	10.182	/	Pass
		711	50	0	10.233	/	Pass
	16QAM	709	50	0	10.222	/	Pass
		710	50	0	10.146	/	Pass
		711	50	0	10.123	/	Pass

4.2 Test Graph

4.2.1 Band17_OBW

Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV
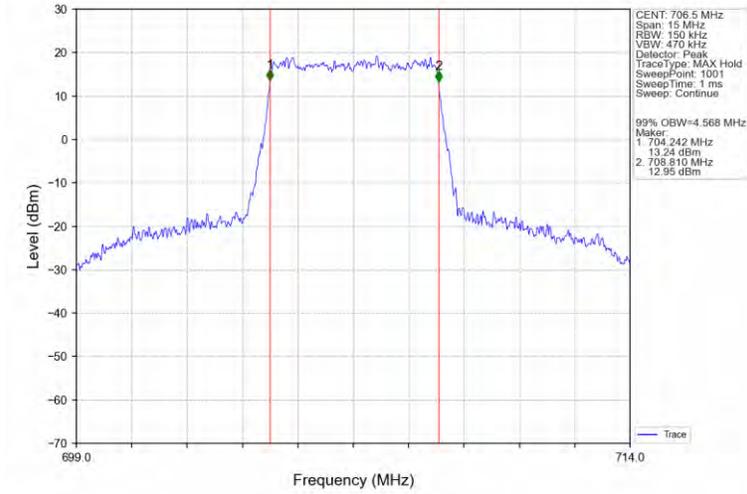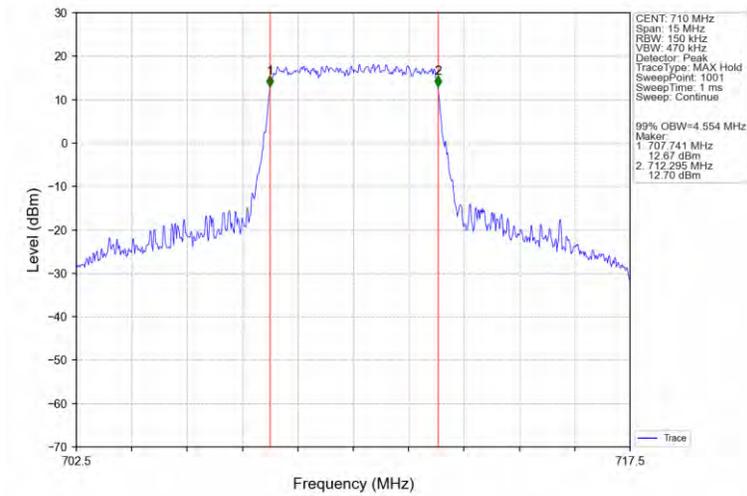
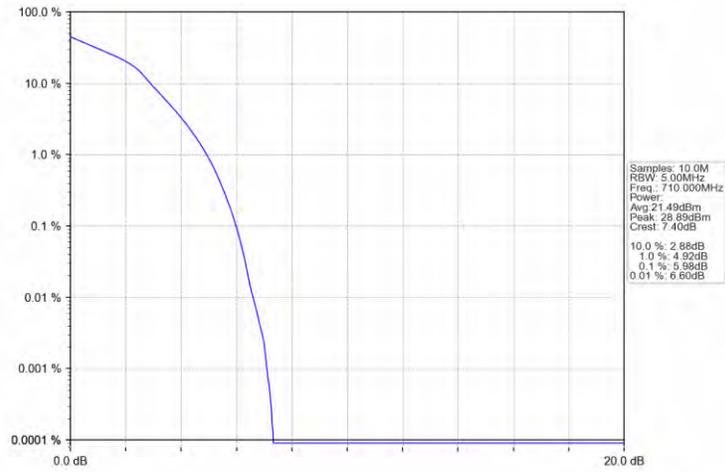Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV

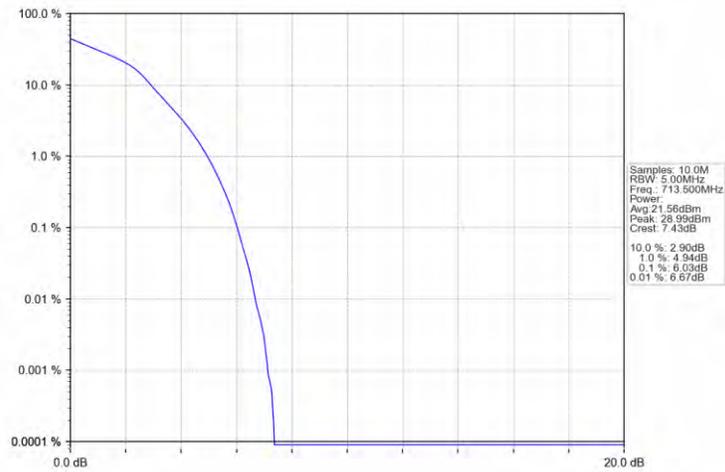| Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV |
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| Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV |
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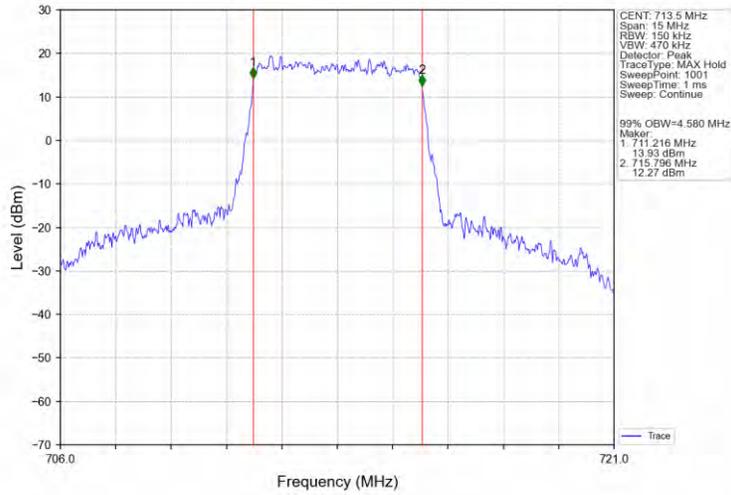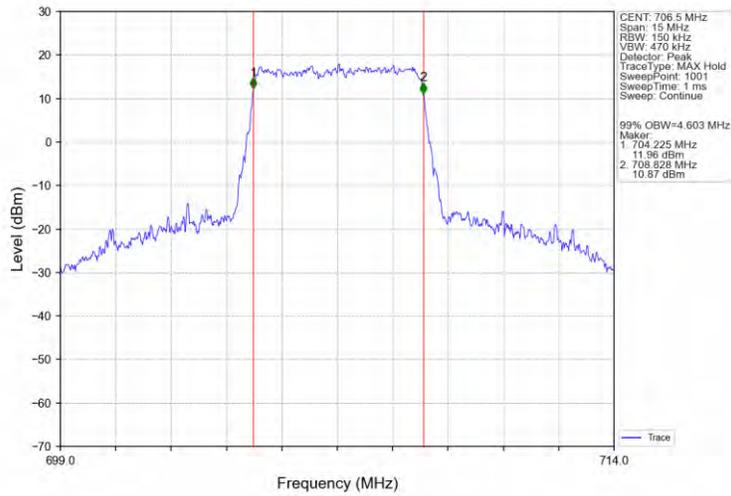
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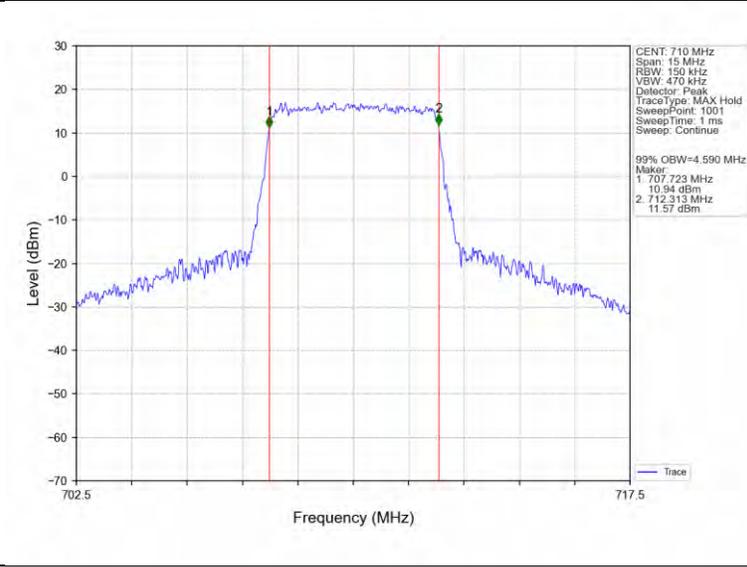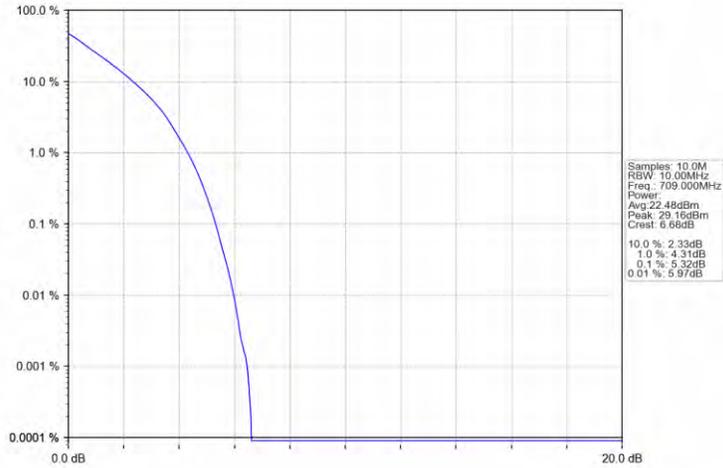

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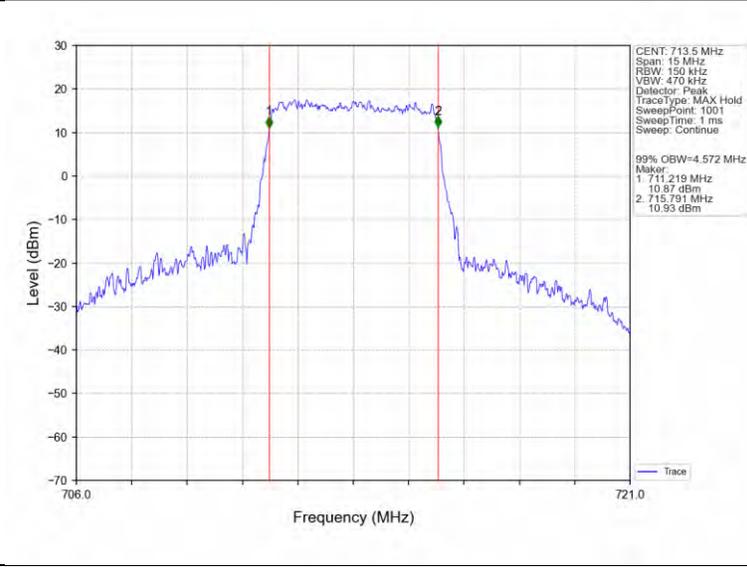
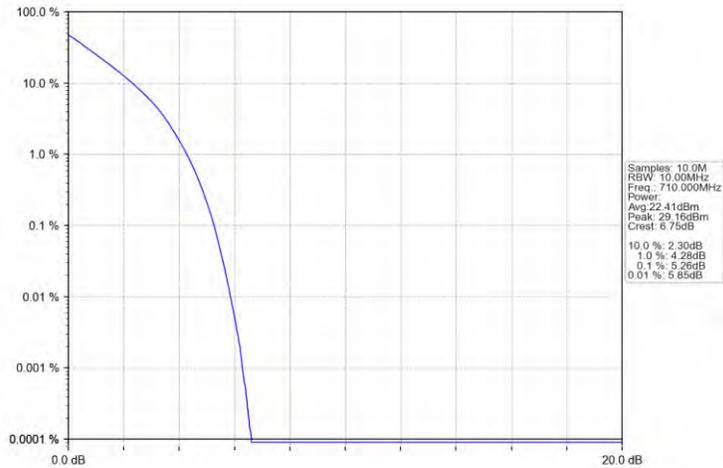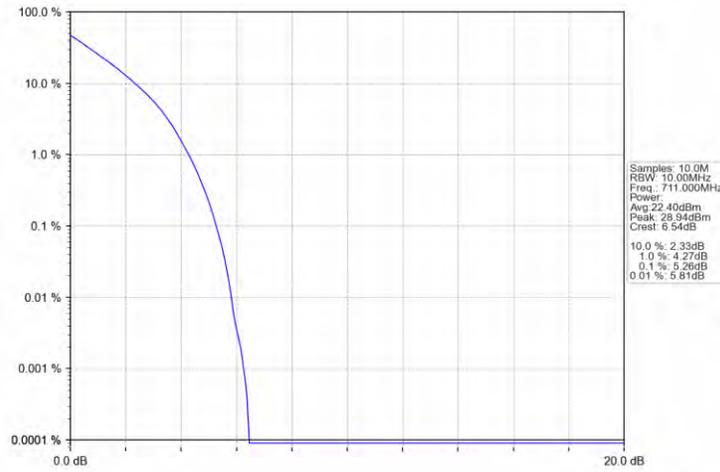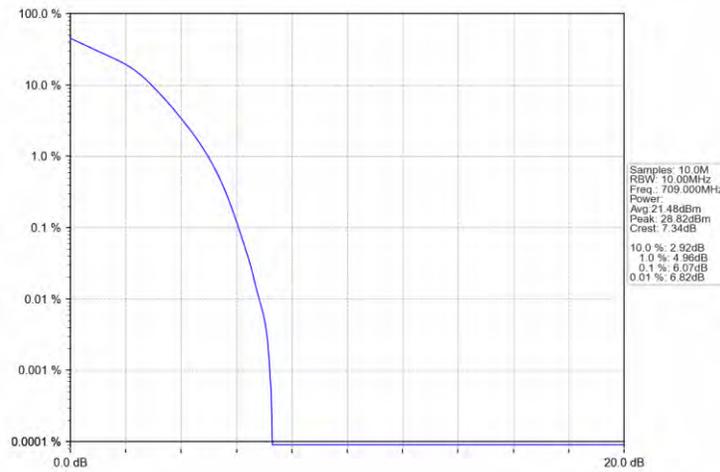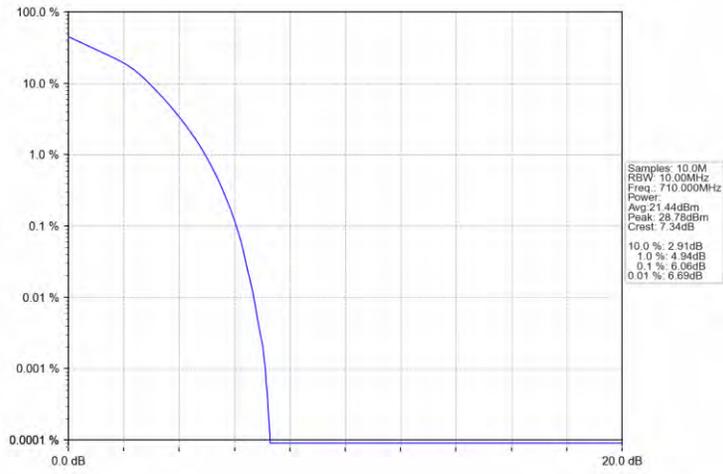Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV
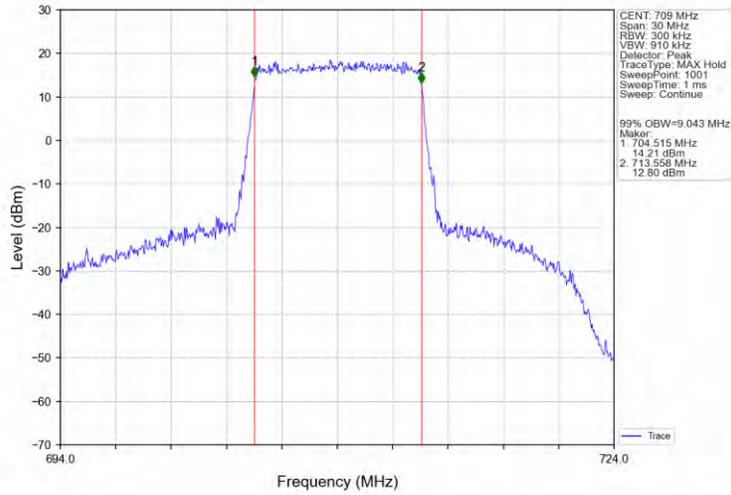
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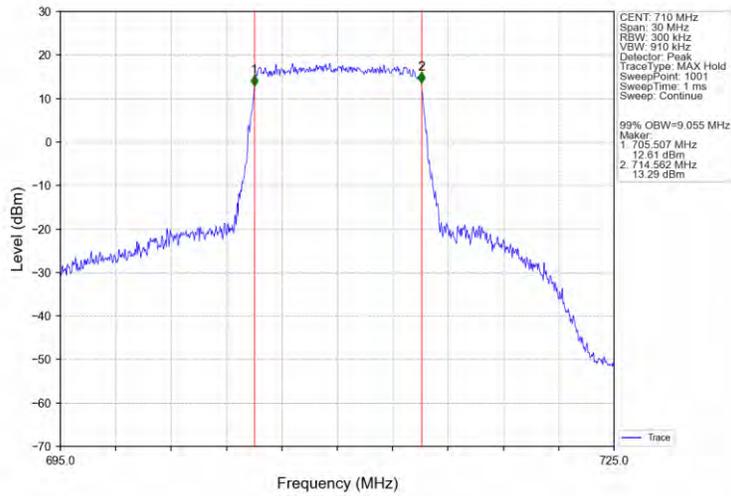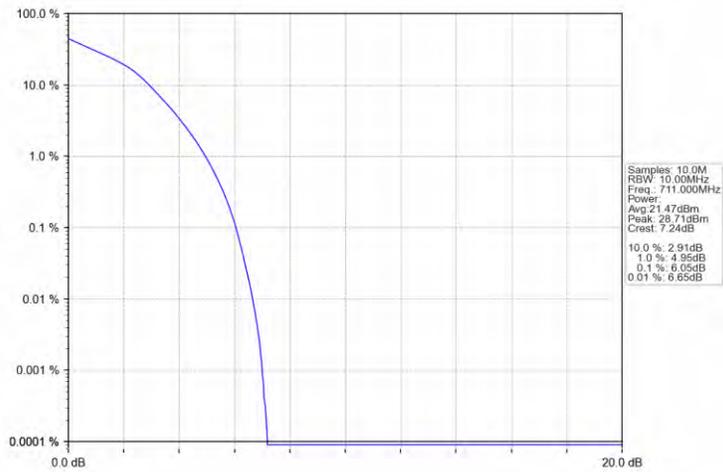
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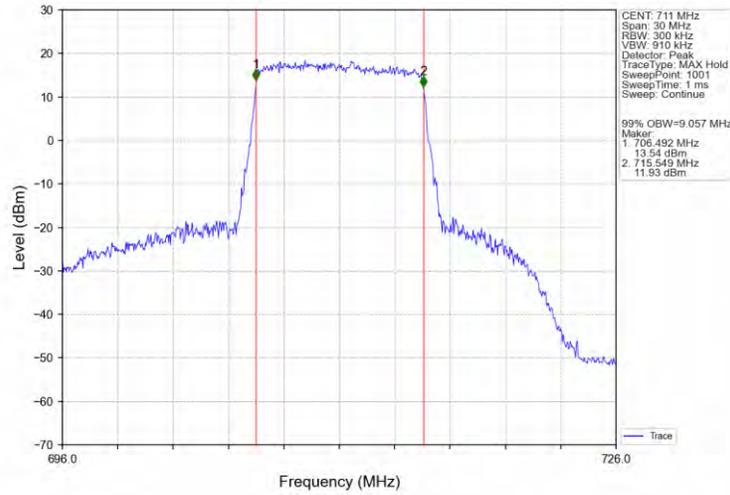
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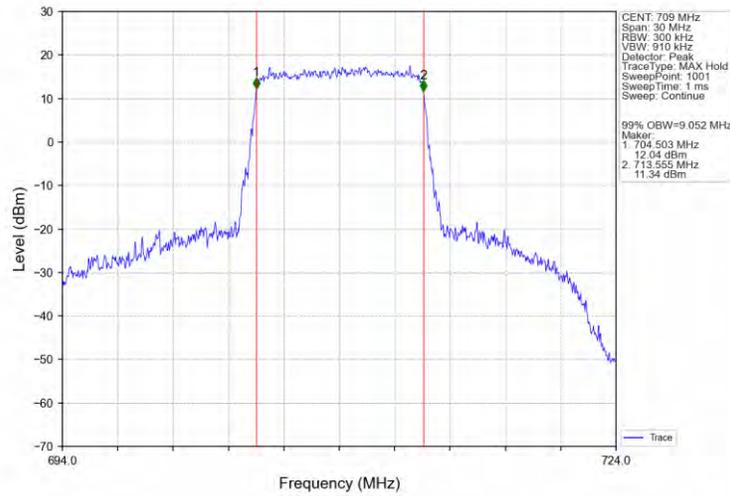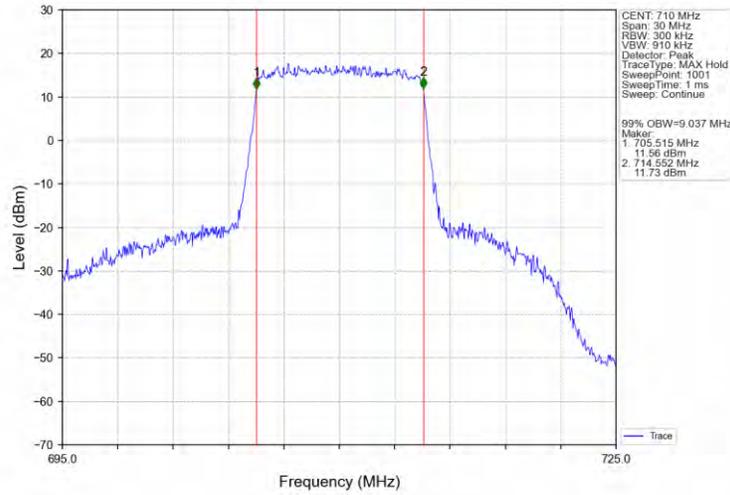
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Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV
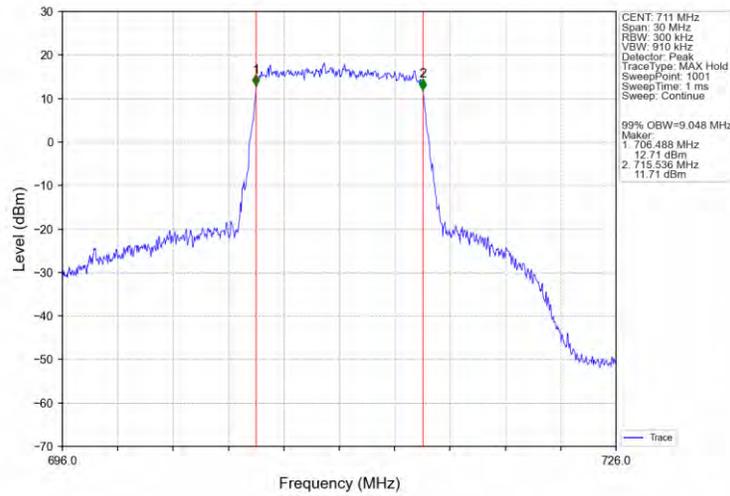
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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV
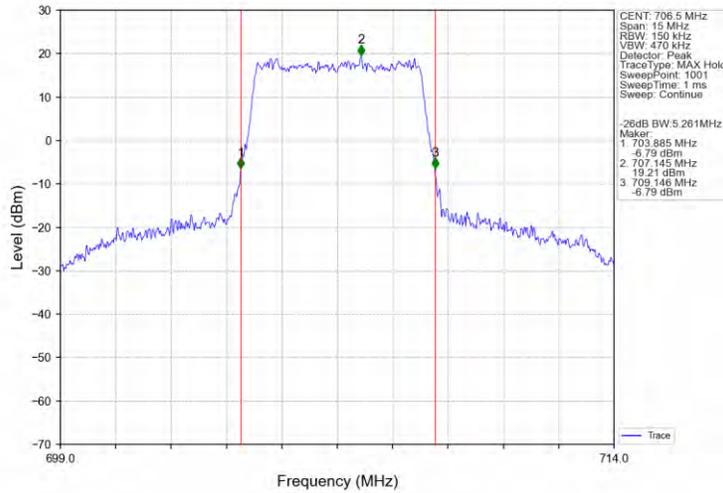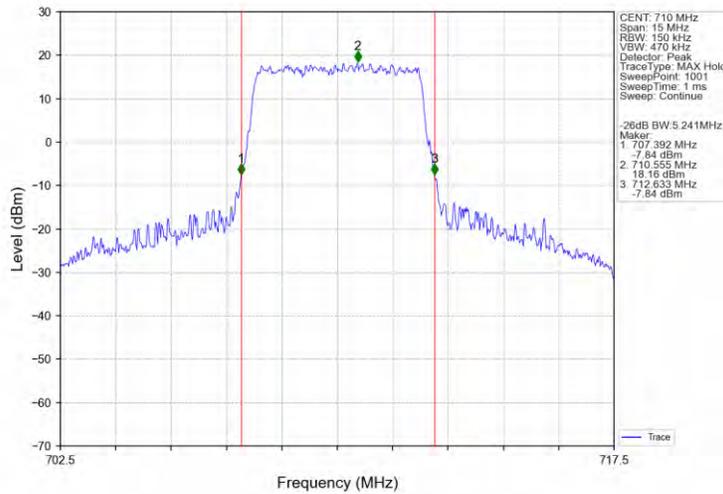
Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV
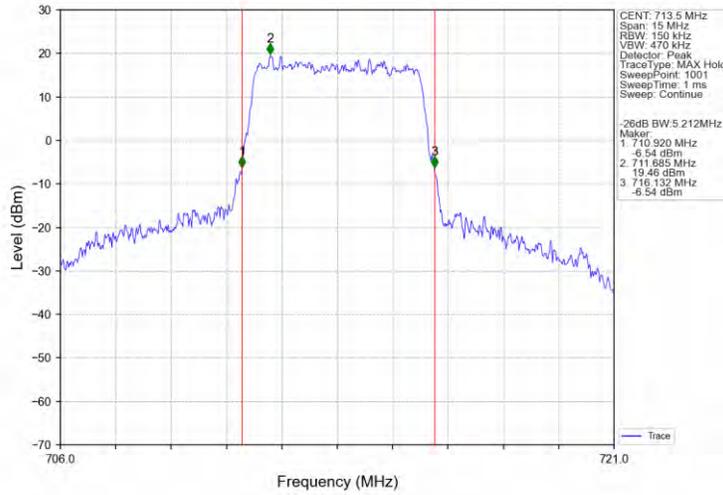
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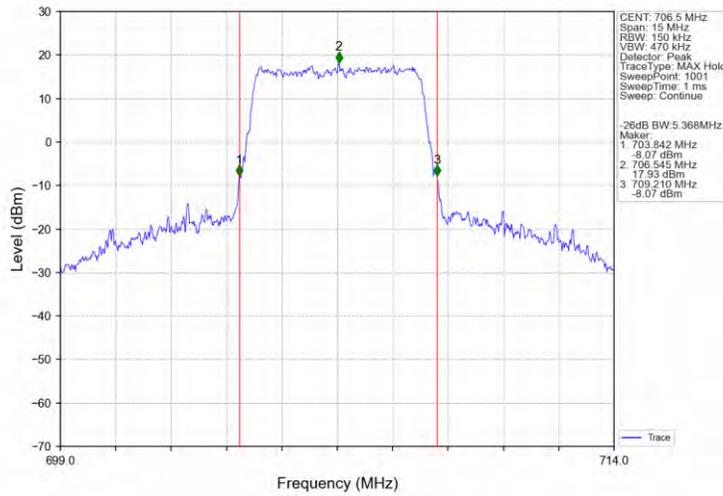
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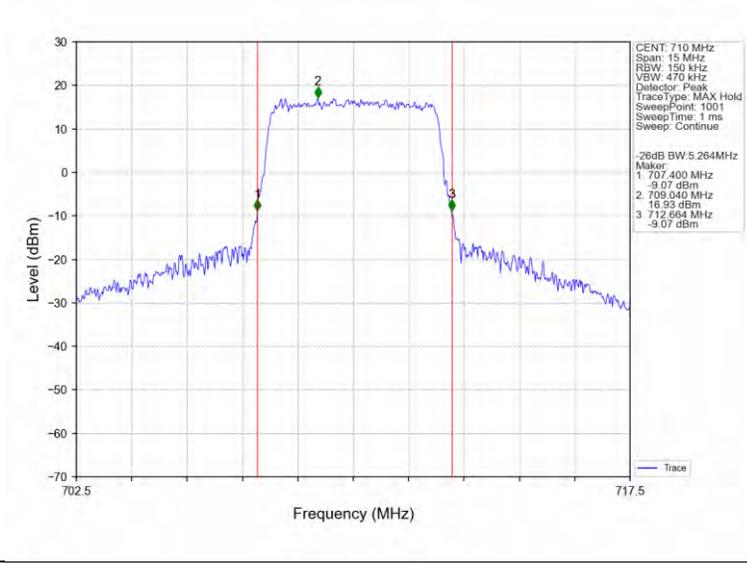
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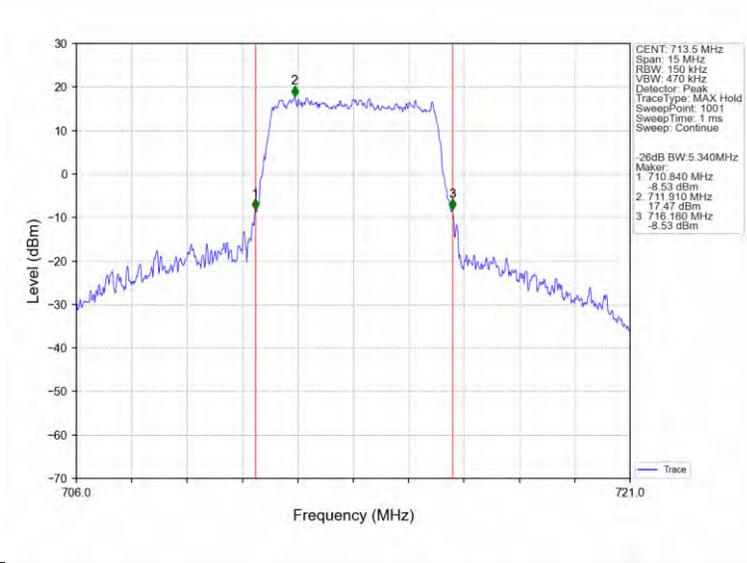
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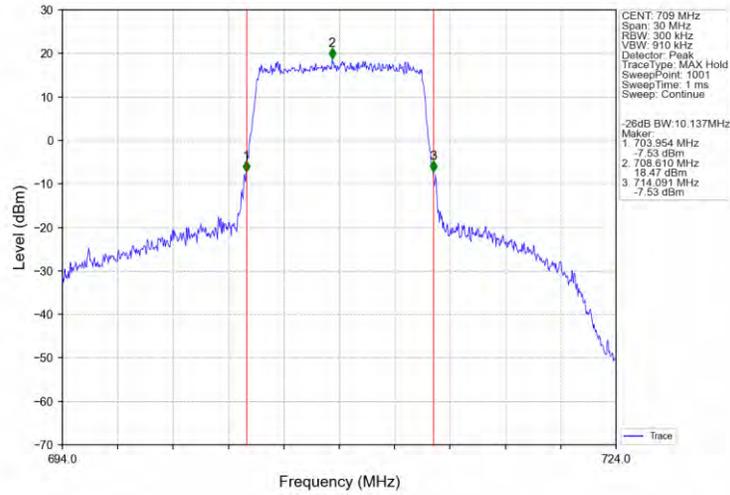
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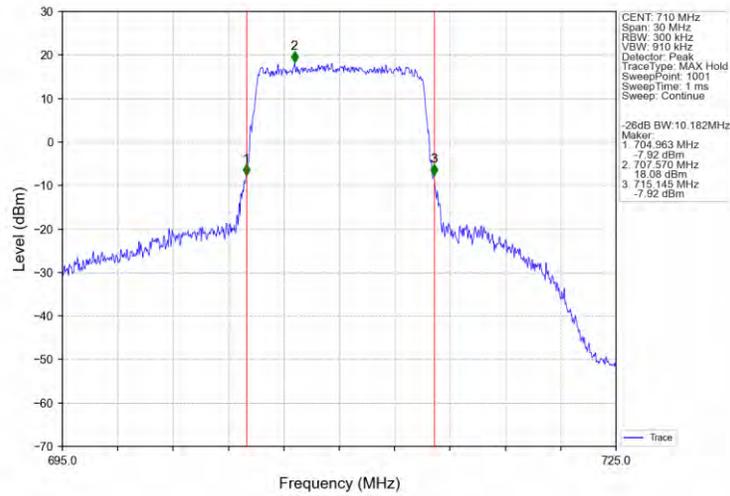
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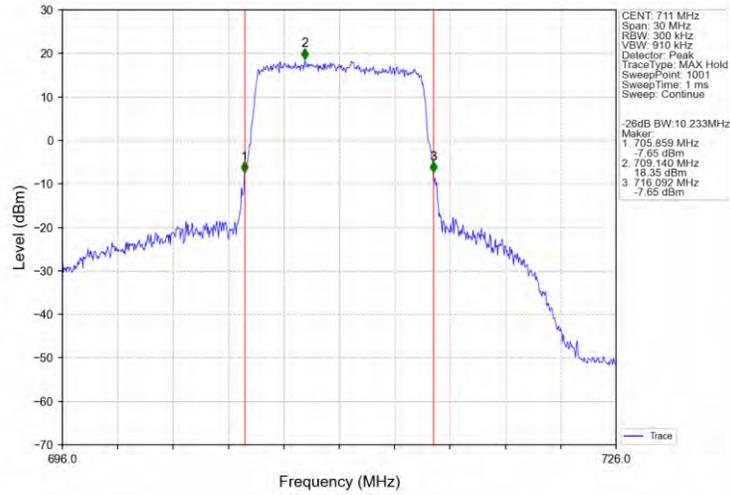
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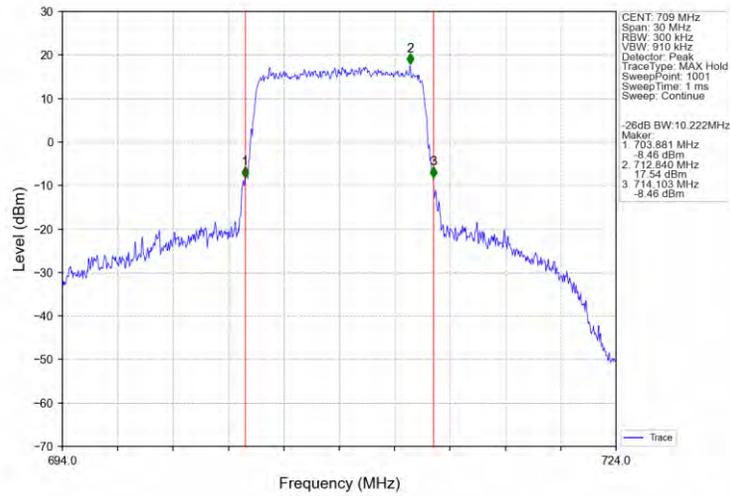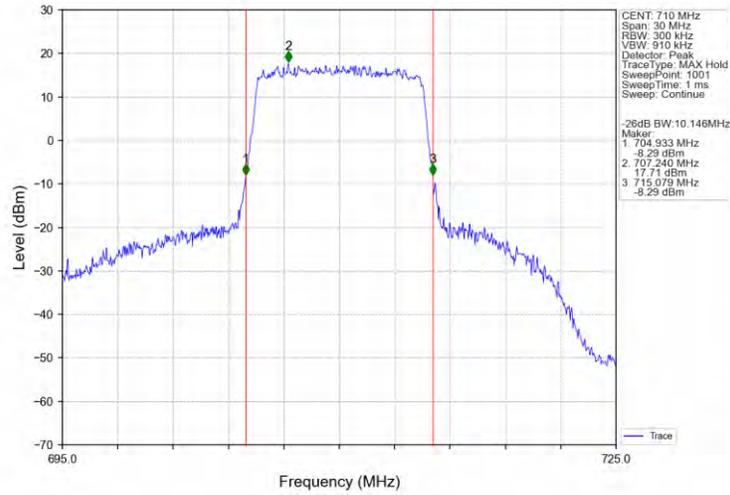
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Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV
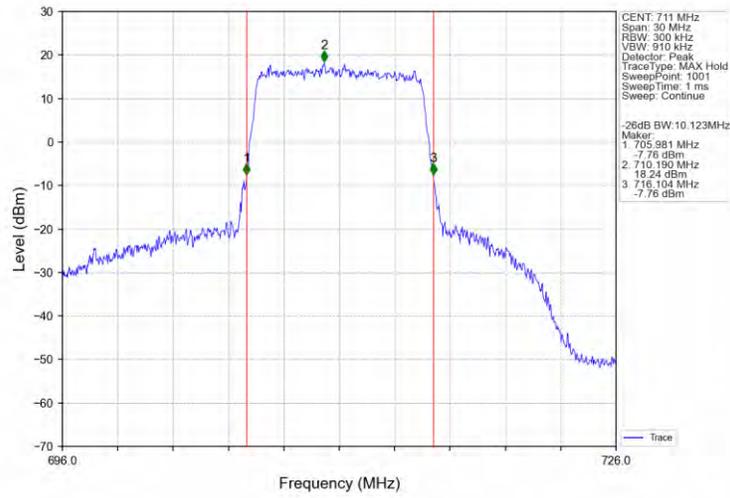
5. Peak-Average Ratio

5.1 Test Result

5.1.1 B17_5MHz

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.31	<=13	Pass
	710	25	0	5.24	<=13	Pass
	713.5	25	0	5.34	<=13	Pass
16QAM	706.5	25	0	6.18	<=13	Pass
	710	25	0	5.98	<=13	Pass
	713.5	25	0	6.03	<=13	Pass

5.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.32	<=13	Pass
	710	50	0	5.26	<=13	Pass
	711	50	0	5.26	<=13	Pass
16QAM	709	50	0	6.07	<=13	Pass
	710	50	0	6.06	<=13	Pass
	711	50	0	6.05	<=13	Pass

5.2 Test Graph

5.2.1 B17_5MHz

Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

Samples: 10.0M
RBW: 5.00MHz
Freq.: 713.500MHz
Power:
Avg:22.50dBm
Peak: 28.90dBm
Crest: 6.40dB

10.0 %: 2.42dB
 1.0 %: 4.34dB
 0.1 %: 5.34dB
0.01 %: 5.89dB

Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

Samples: 10.0M
RBW: 5.00MHz
Freq.: 706.500MHz
Power:
Avg:21.77dBm
Peak: 29.38dBm
Crest: 7.61dB

10.0 %: 2.91dB
 1.0 %: 5.03dB
 0.1 %: 6.18dB
0.01 %: 6.90dB

Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

Samples: 10.0M
RBW: 5.00MHz
Freq.: 710.000MHz
Power:
Avg:21.49dBm
Peak: 28.89dBm
Crest: 7.40dB

10.0 %: 2.88dB
 1.0 %: 4.92dB
 0.1 %: 5.98dB
0.01 %: 6.60dB

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

Samples: 10.0M
RBW: 5.00MHz
Freq.: 713.500MHz
Power:
Avg:21.56dBm
Peak: 28.99dBm
Crest: 7.43dB

10.0 %: 2.90dB
 1.0 %: 4.94dB
 0.1 %: 6.03dB
0.01 %: 6.67dB

5.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

Samples: 10.0M
RBW: 10.00MHz
Freq.: 709.000MHz
Power:
Avg:22.48dBm
Peak: 29.16dBm
Crest: 6.68dB

10.0 %: 2.33dB
 1.0 %: 4.31dB
 0.1 %: 5.32dB
0.01 %: 5.97dB

Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV

Samples: 10.0M
RBW: 10.00MHz
Freq.: 710.000MHz
Power:
Avg:22.41dBm
Peak: 29.16dBm
Crest: 6.75dB

10.0 %: 2.30dB
 1.0 %: 4.28dB
 0.1 %: 5.26dB
0.01 %: 5.85dB

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

Samples: 10.0M
RBW: 10.00MHz
Freq.: 711.000MHz
Power:
Avg:22.40dBm
Peak: 28.94dBm
Crest: 6.54dB

10.0 %: 2.33dB
 1.0 %: 4.27dB
 0.1 %: 5.26dB
0.01 %: 5.81dB

Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

Samples: 10.0M
RBW: 10.00MHz
Freq.: 709.000MHz
Power:
Avg:21.48dBm
Peak: 28.82dBm
Crest: 7.34dB

10.0 %: 2.92dB
 1.0 %: 4.96dB
 0.1 %: 6.07dB
0.01 %: 6.82dB

Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

6. Spurious Emission

6.1 Test Result

6.1.1 B17_5MHz

Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

Band: 17 / Bandwidth: 5MHz / NTNV

6.1.2 B17_10MHz

Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

Band: 17 / Bandwidth: 10MHz / NTNV

6.2 Test Graph

6.2.1 B17_5MHz

Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV
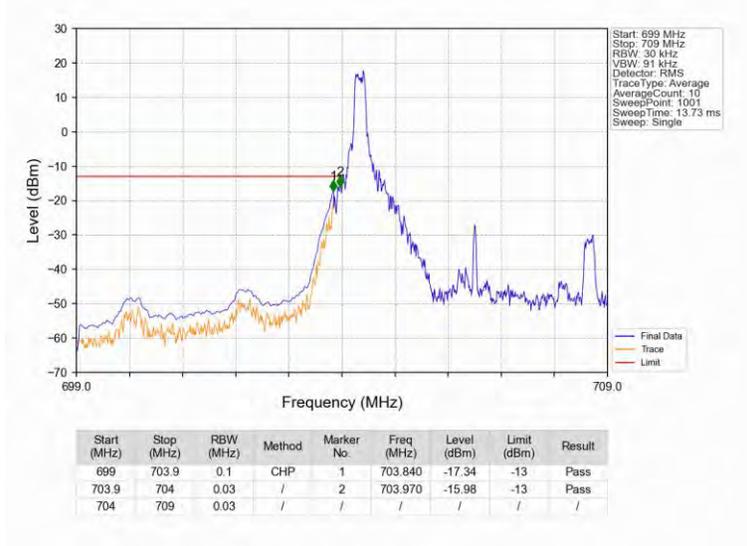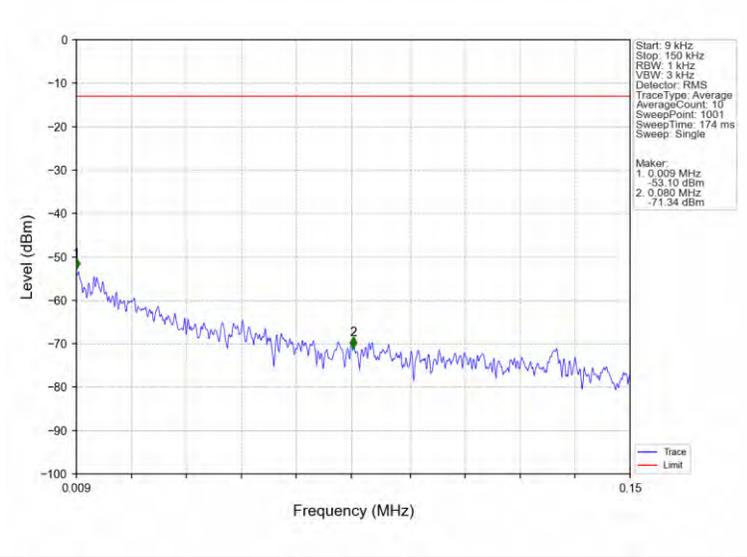
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-17.34	-13	Pass
703.9	704	0.03	/	2	703.970	-15.98	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV
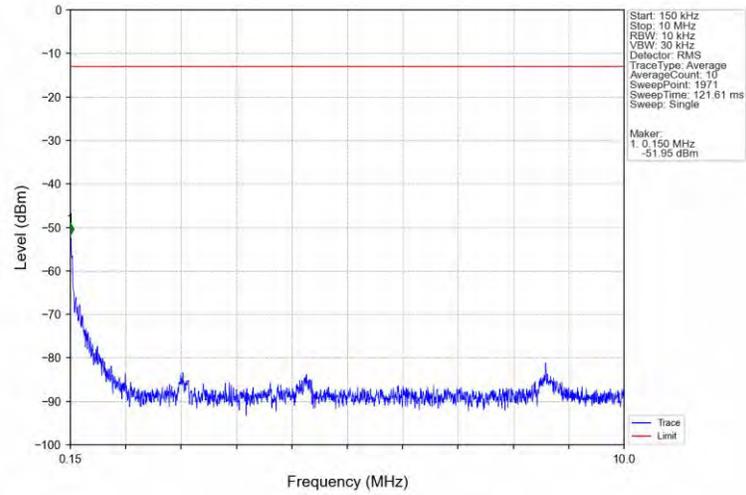
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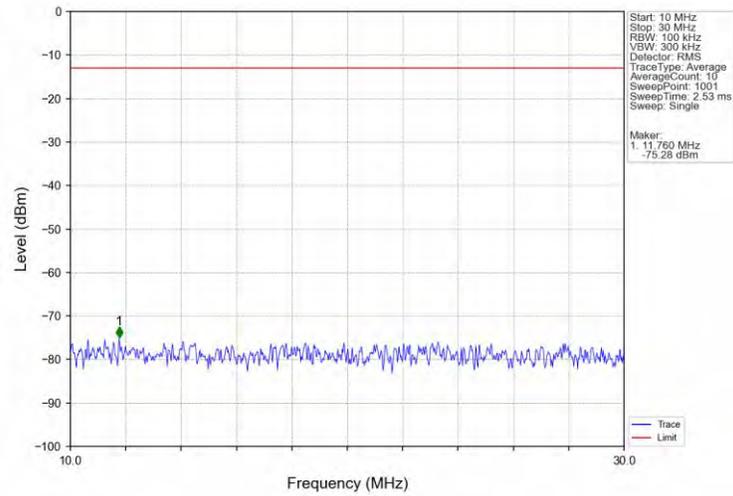
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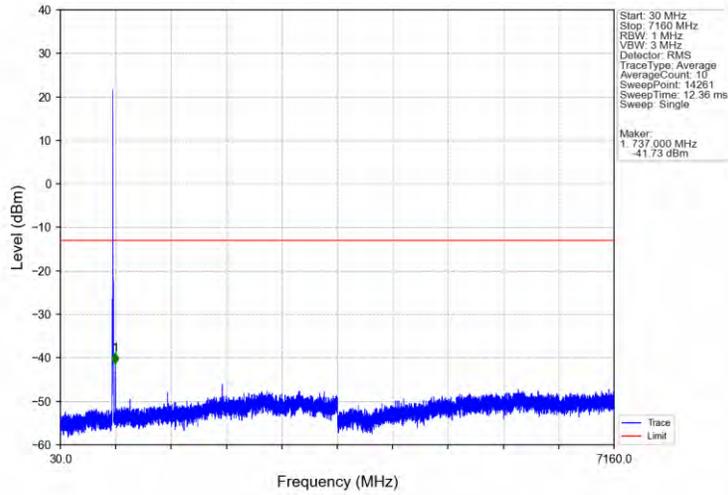
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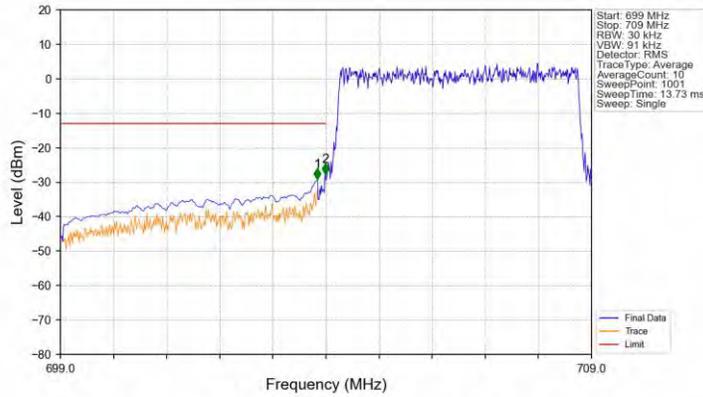
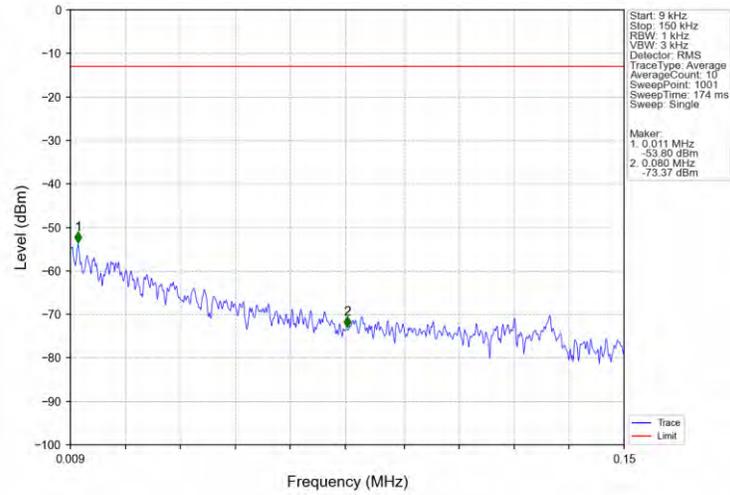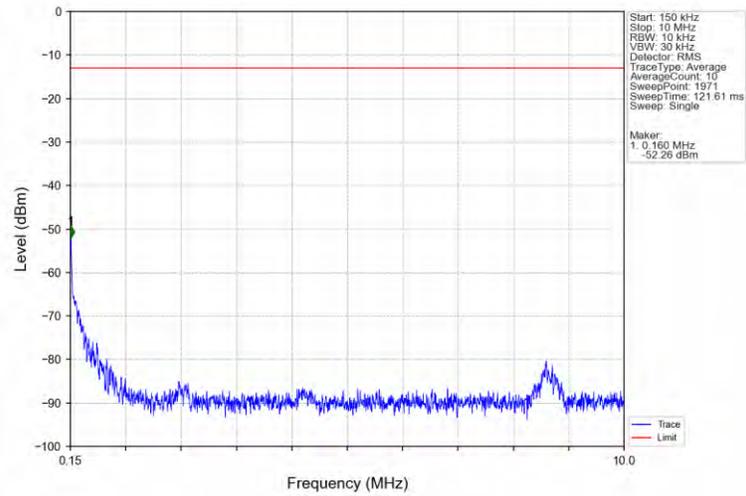| Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.18	-13	Pass
703.9	704	0.03	/	2	703.990	-27.67	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV
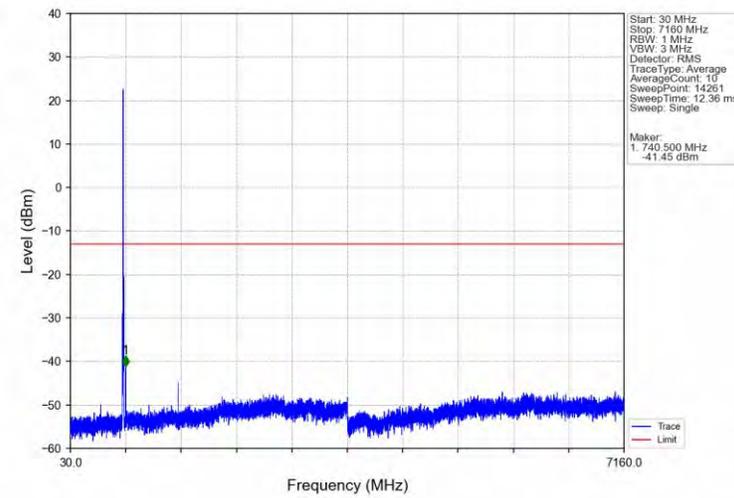
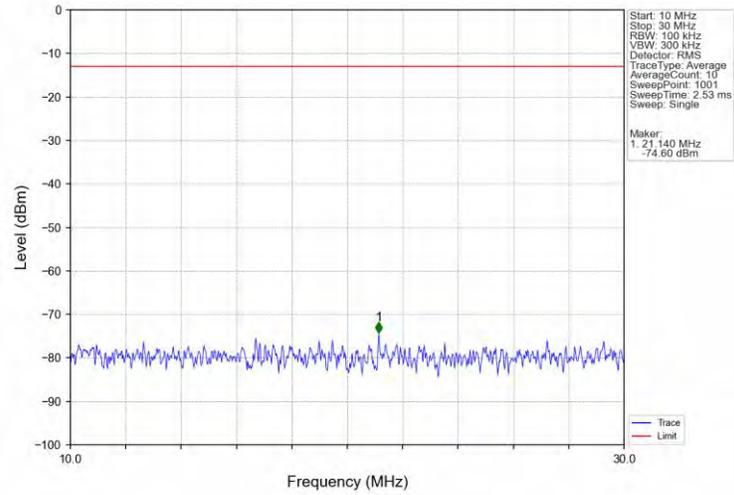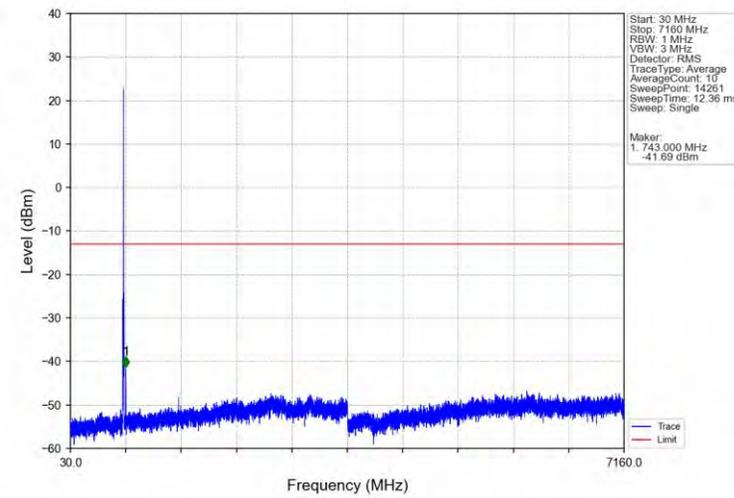| Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV |
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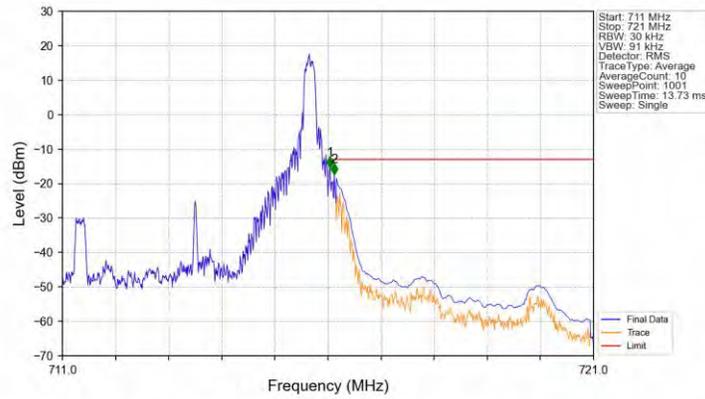| Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV |
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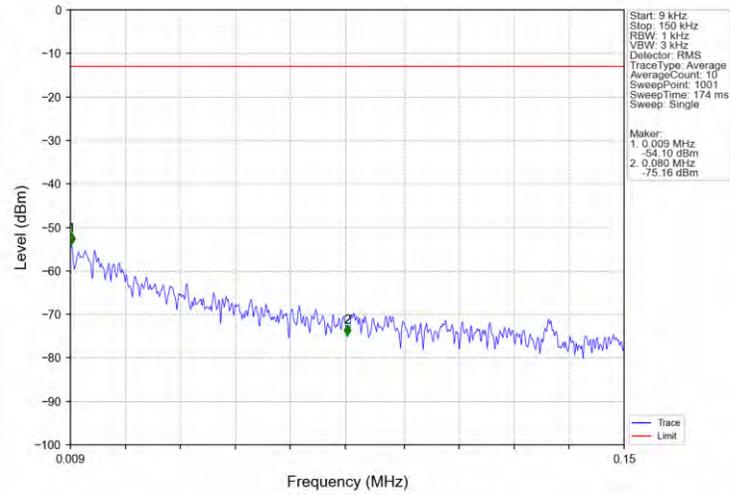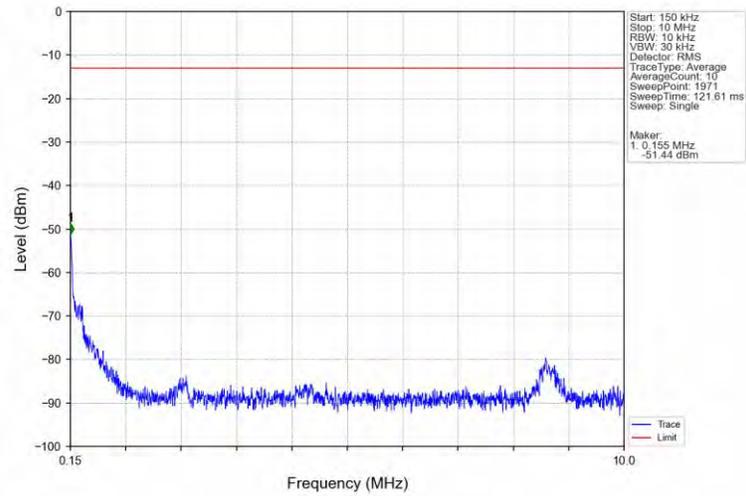
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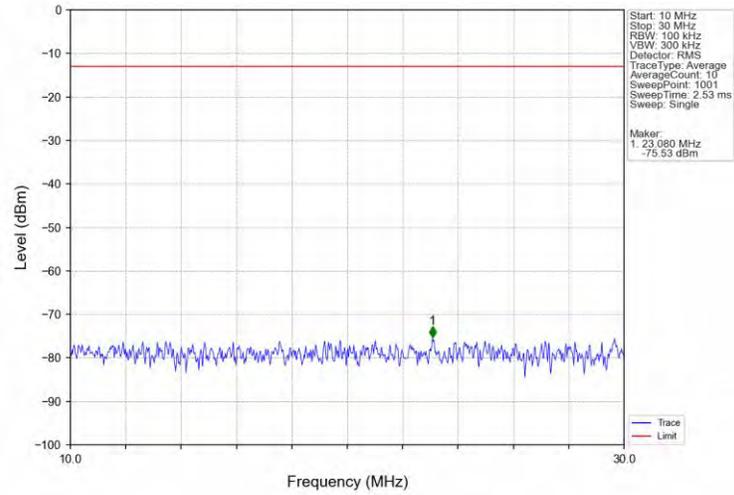
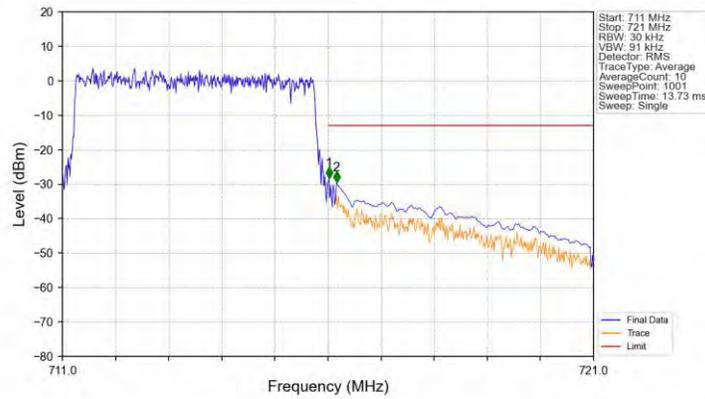Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV
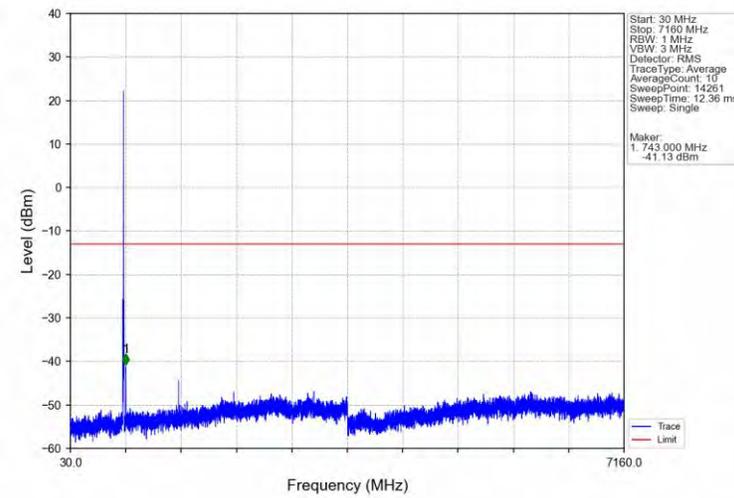
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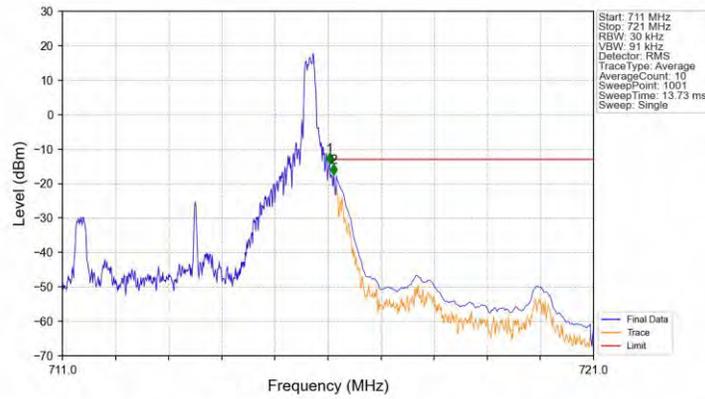
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-14.29	-13	Pass
716.1	721	0.1	CHP	2	716.110	-17.46	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV
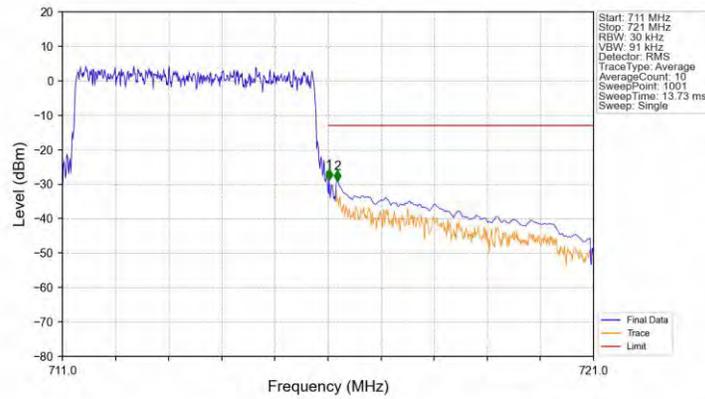
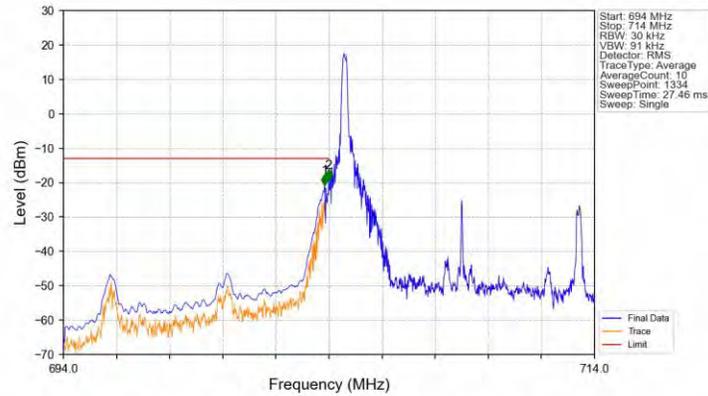| Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-28.80	-13	Pass
716.1	721	0.1	CHP	2	716.180	-29.11	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV
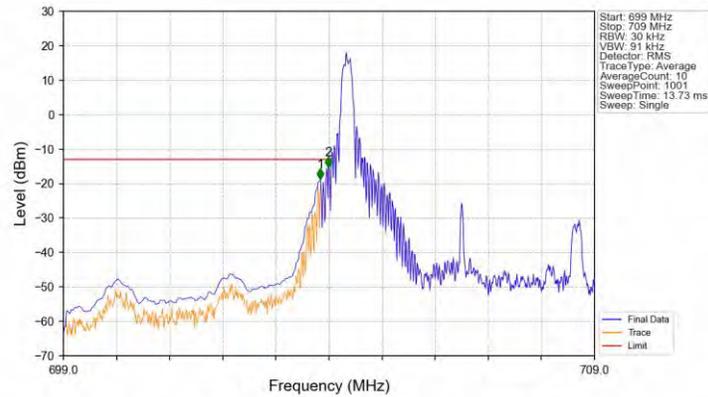
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-18.72	-13	Pass
703.9	704	0.03	/	2	703.990	-15.27	-13	Pass
704	709	0.03	/	/	/	/	/	/
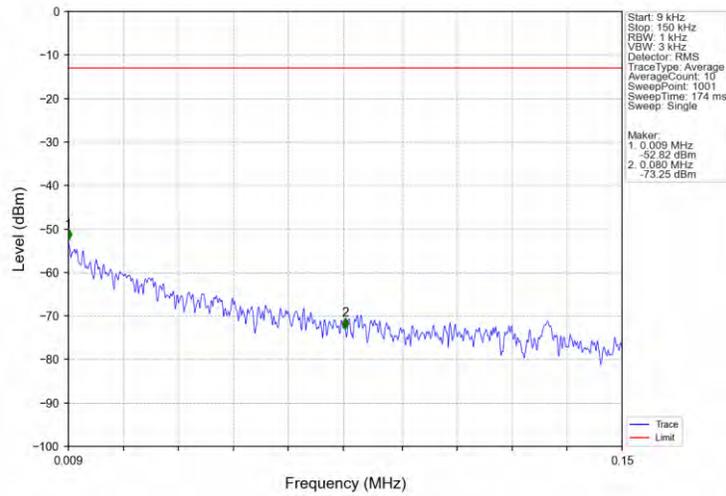
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

Start: 30 MHz
Stop: 7160 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 10
SweepPoint: 14261
SweepTime: 12.36 ms
Sweep: Single

Maker:
1. 737.500 MHz
    -42.19 dBm

Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

Start: 699 MHz
Stop: 709 MHz
RBW: 30 kHz
VBW: 91 kHz
Detector: RMS
TraceType: Average
AverageCount: 10
SweepPoint: 1001
SweepTime: 13.73 ms
Sweep: Single
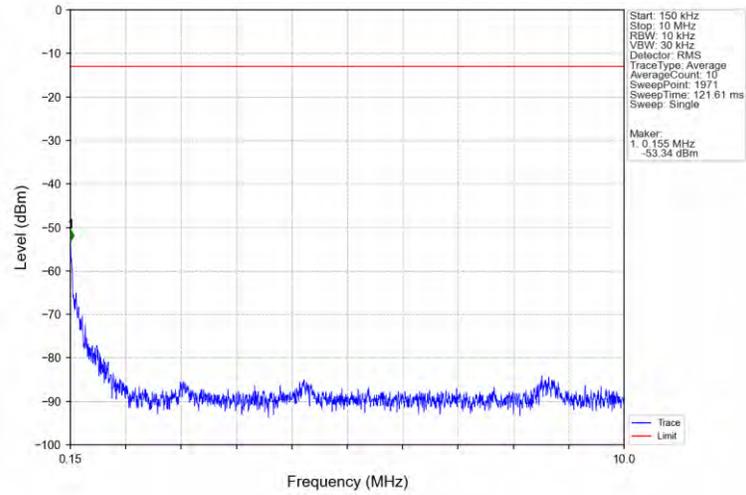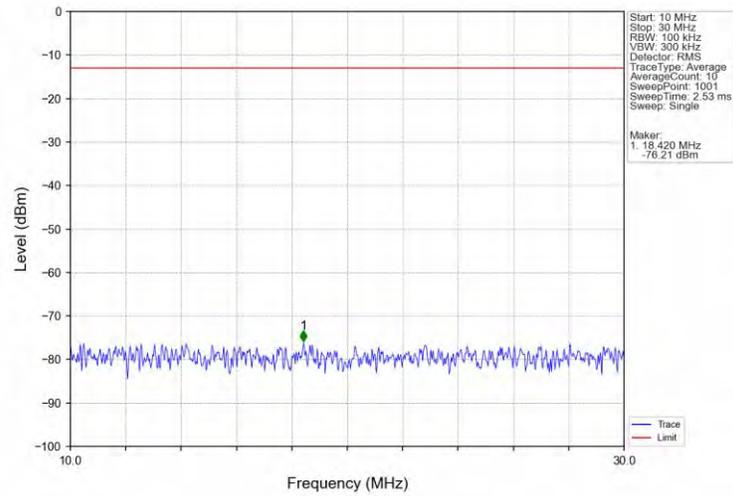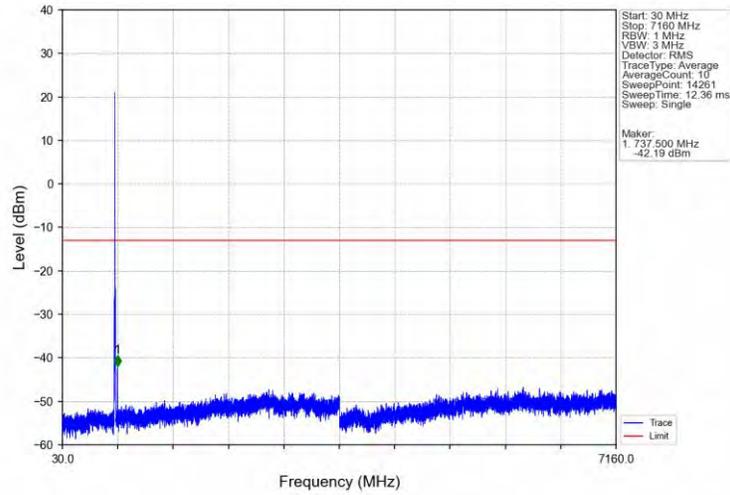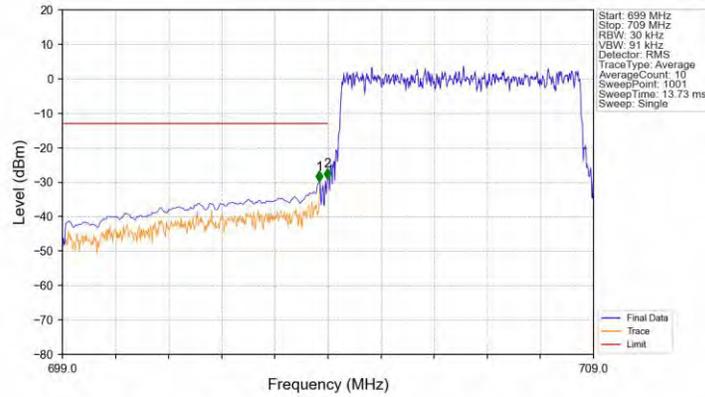
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.82	-13	Pass
703.9	704	0.03	/	2	703.990	-29.03	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV


Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

Start: 10 MHz
Stop: 30 MHz
RBW: 100 kHz
VBW: 300 kHz
Detector: RMS
TraceType: Average
AverageCount: 10
SweepPoint: 1001
SweepTime: 2.53 ms
Sweep: Single

Maker:
1. 21.140 MHz
   -74.60 dBm

Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

Start: 30 MHz
Stop: 7160 MHz
RBW: 1 MHz
VBW: 3 MHz
Detector: RMS
TraceType: Average
AverageCount: 10
SweepPoint: 14261
SweepTime: 12.36 ms
Sweep: Single

Maker:
1. 743.000 MHz
   -41.69 dBm
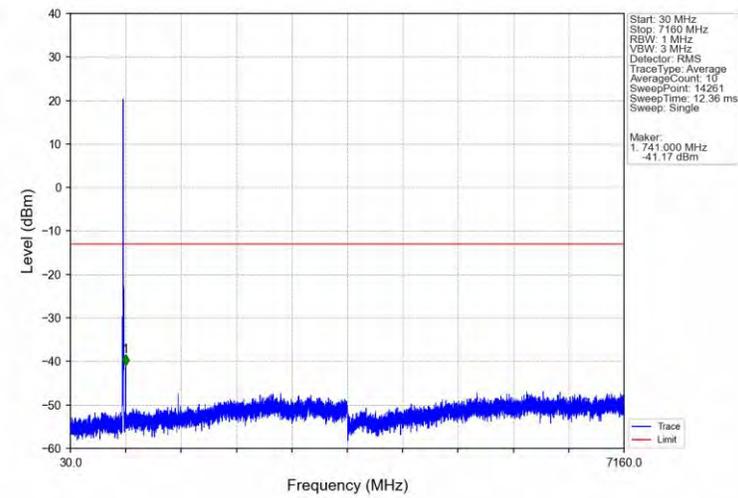
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-15.38	-13	Pass
716.1	721	0.1	CHP	2	716.120	-17.35	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-28.28	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.50	-13	Pass

6.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-20.74	-13	Pass
703.9	704	0.03	/	2	703.992	-19.37	-13	Pass
704	714	0.03	/	/	/	/	/	/
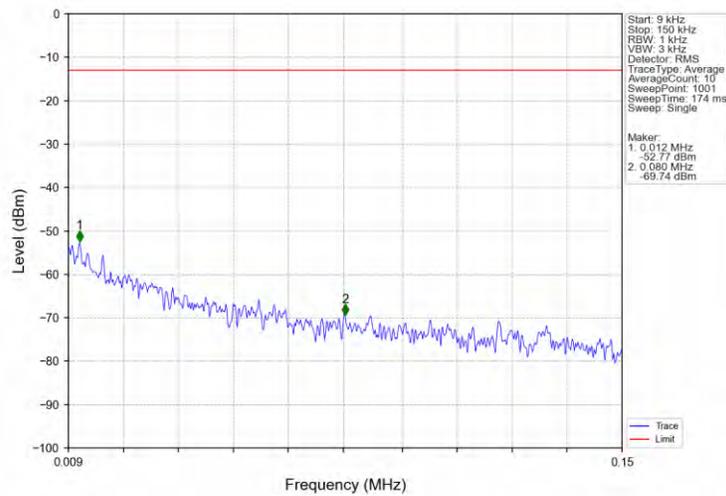
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV
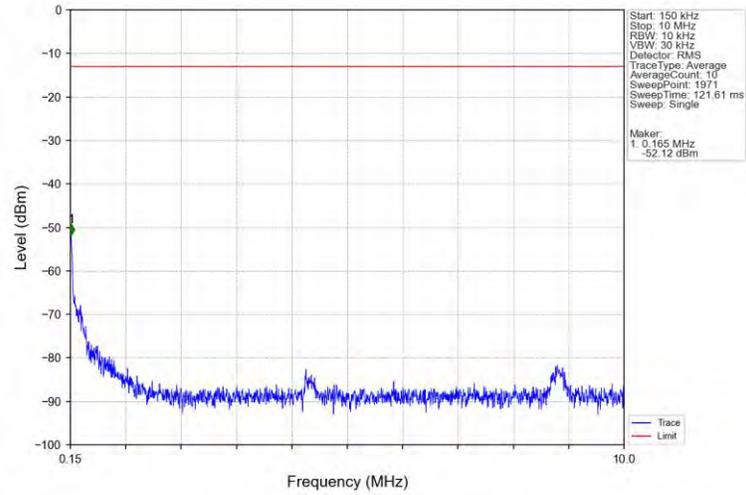
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV
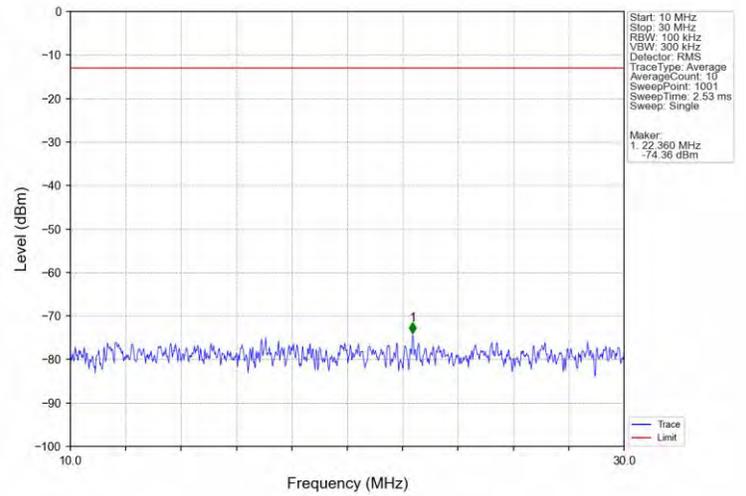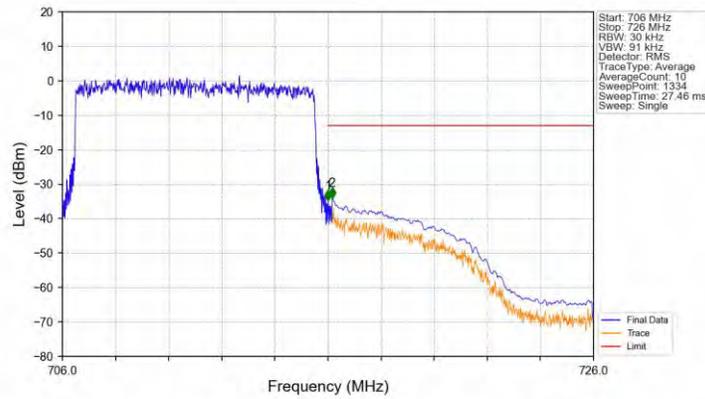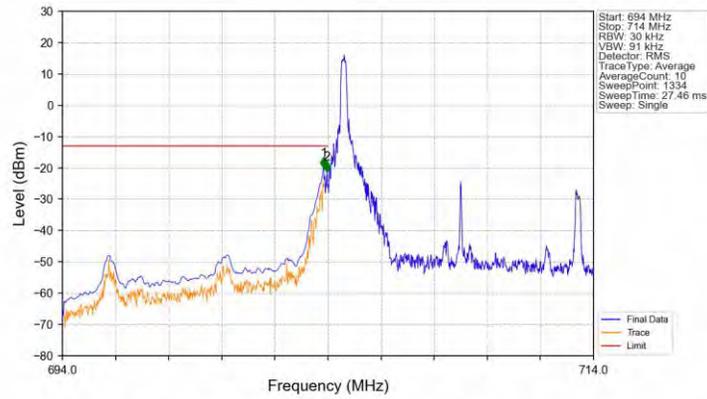
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV
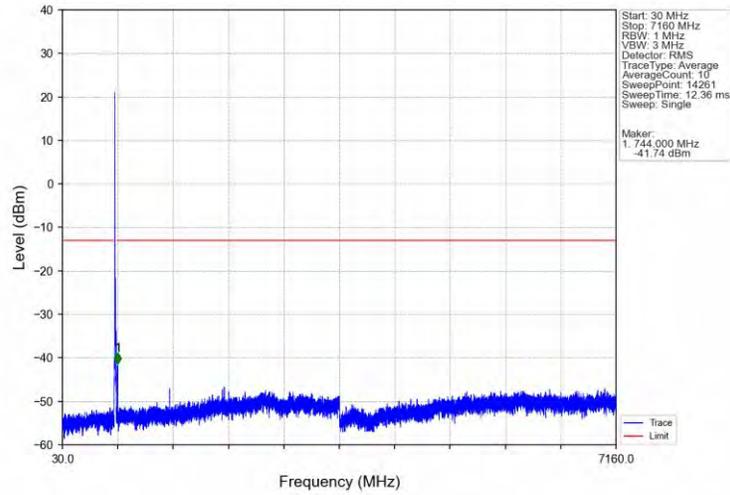
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV
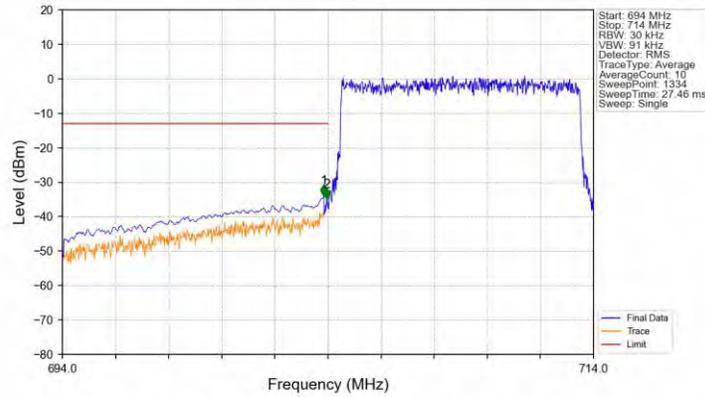
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.93	-13	Pass
703.9	704	0.03	/	2	703.962	-34.88	-13	Pass
704	714	0.03	/	/	/	/	/	/
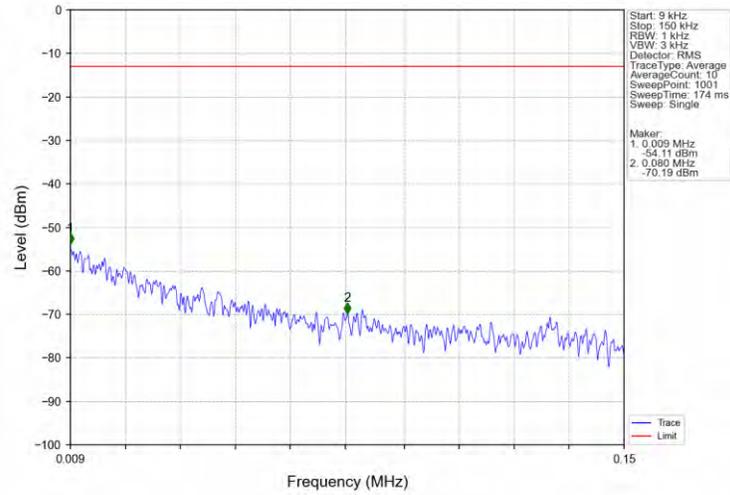
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV
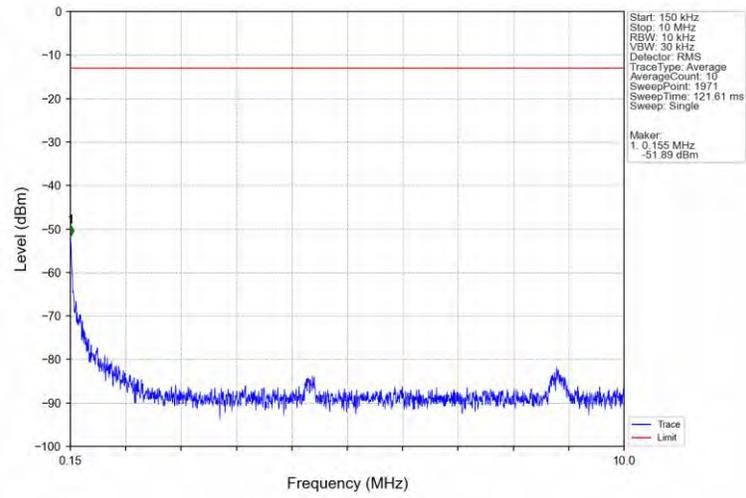
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV
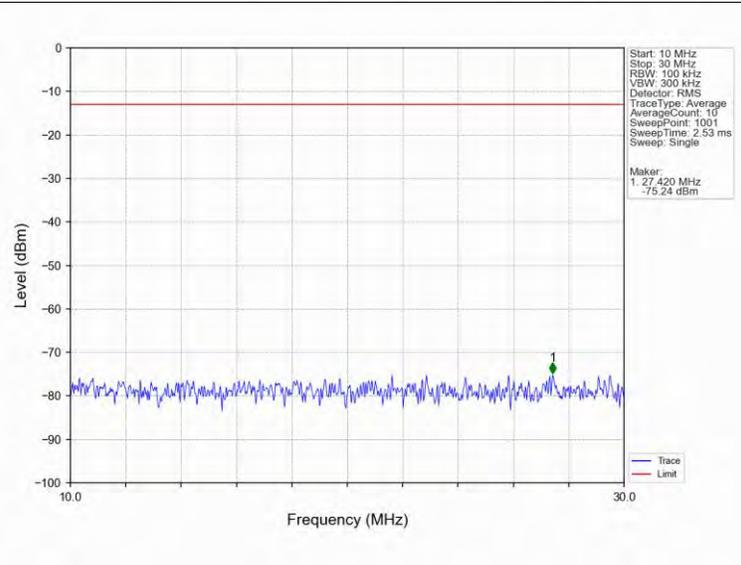
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV
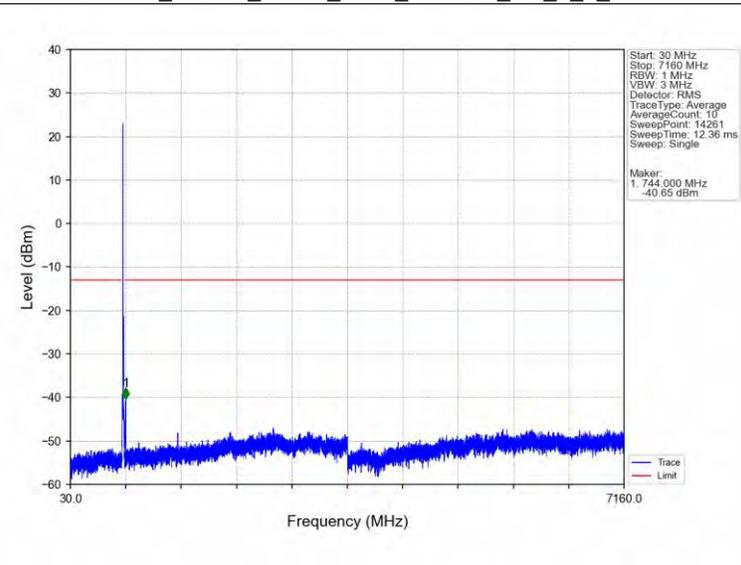
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV
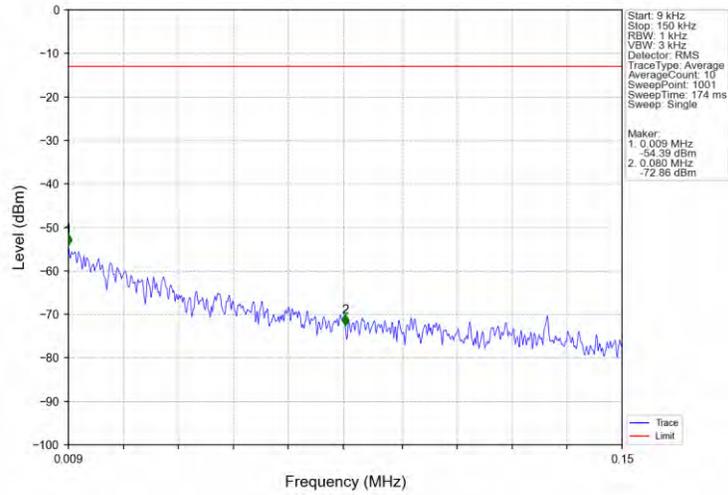
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV
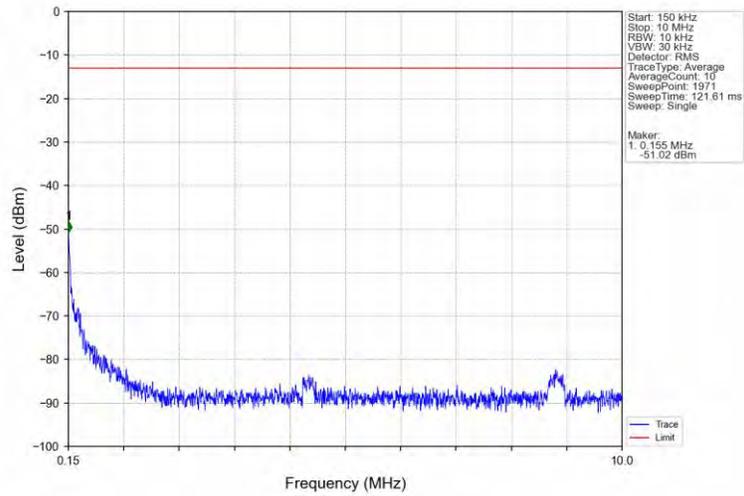
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV
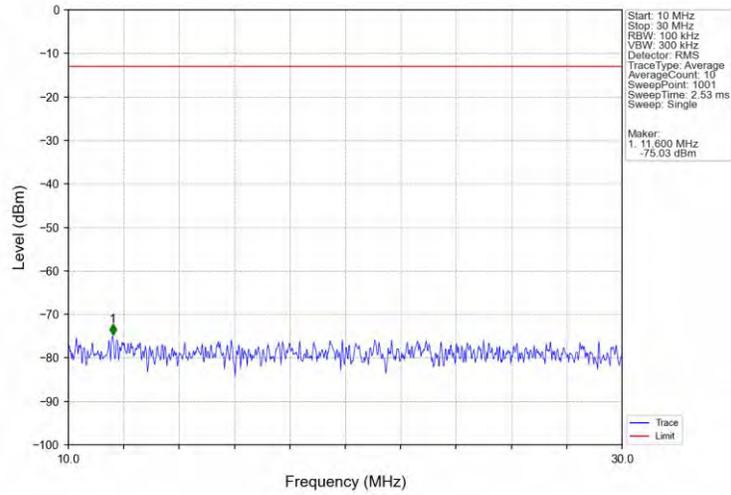
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV
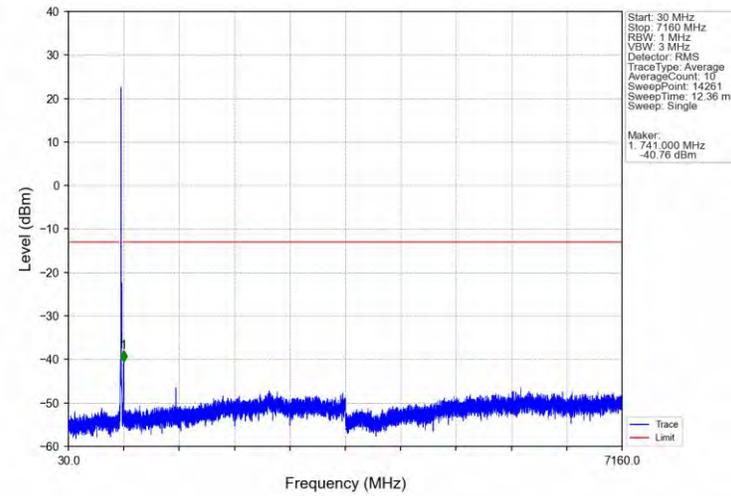
Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV
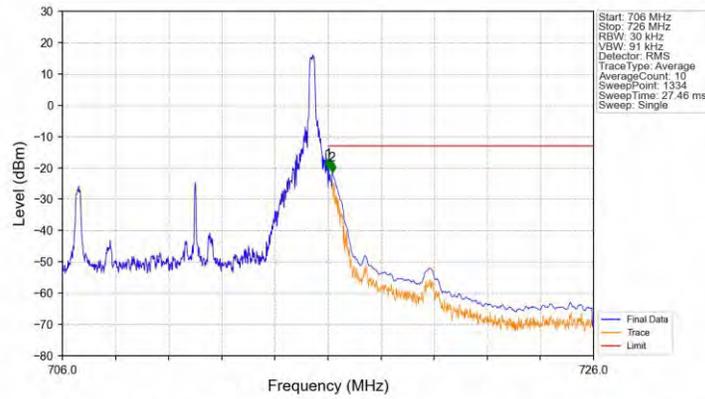
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-20.23	-13	Pass
716.1	726	0.1	CHP	2	716.158	-21.53	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-34.71	-13	Pass
716.1	726	0.1	CHP	2	716.158	-34.00	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-20.08	-13	Pass
703.9	704	0.03	/	2	703.962	-21.16	-13	Pass
704	714	0.03	/	/	/	/	/	/
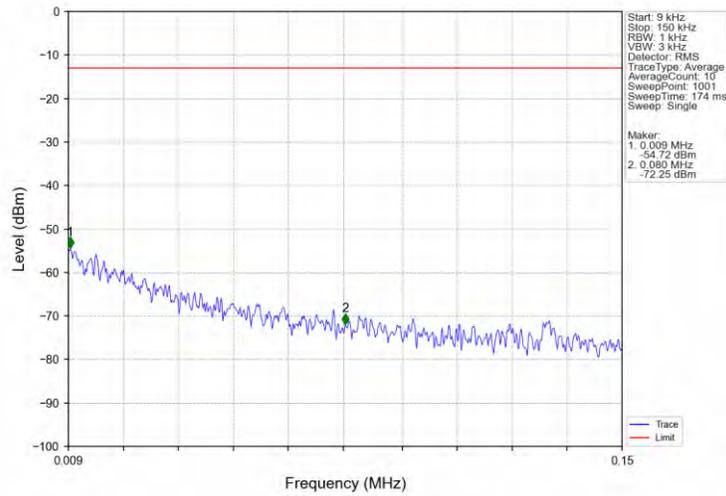
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV
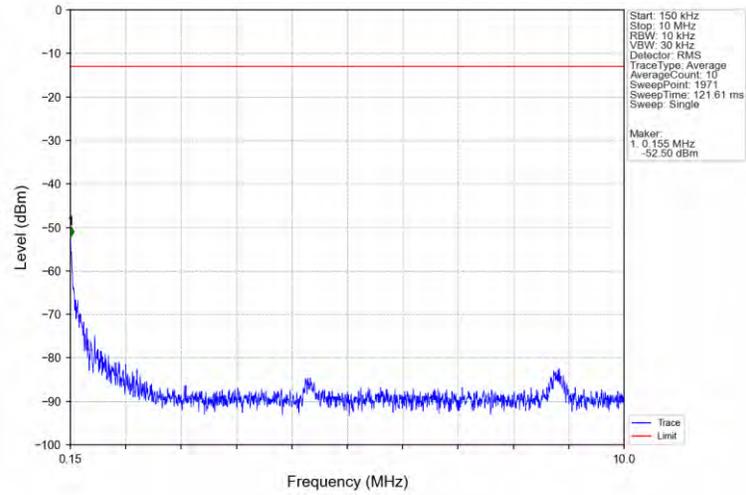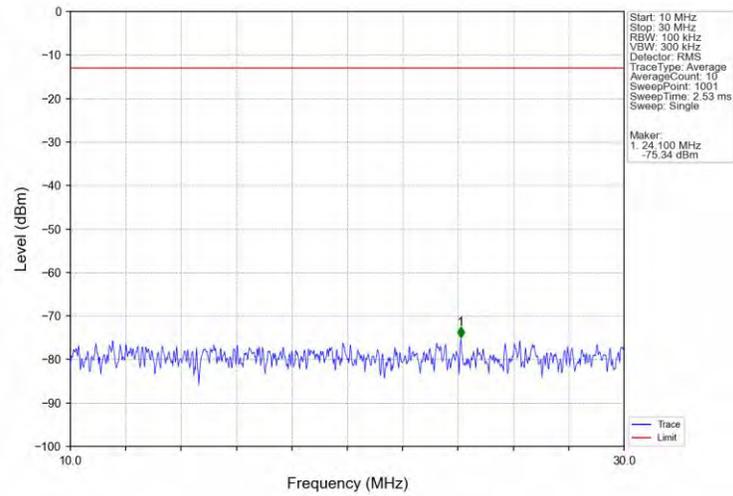
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV
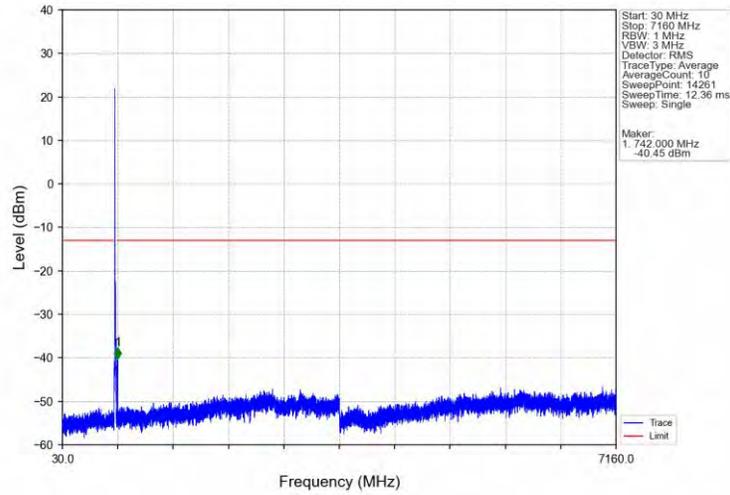
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV
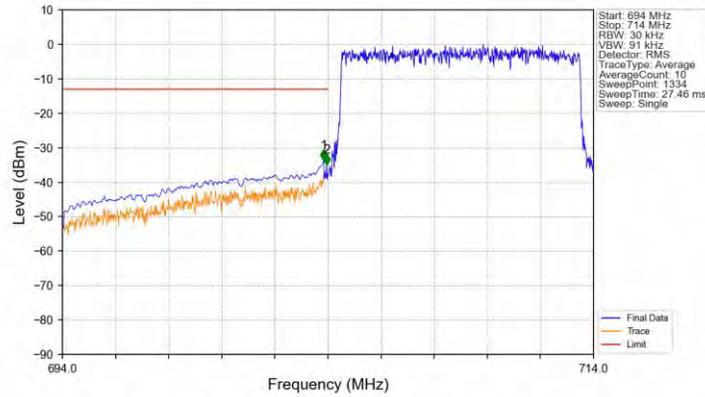
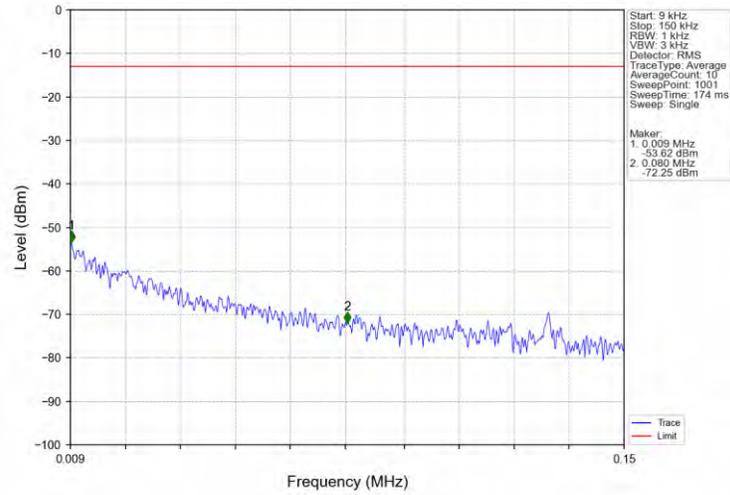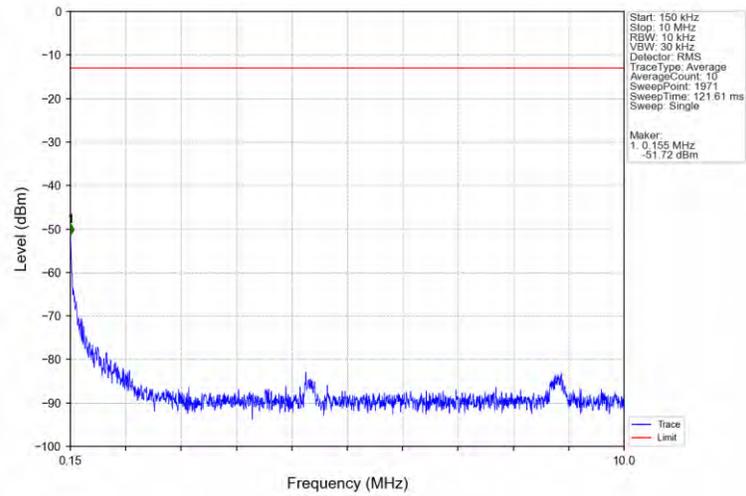| Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.71	-13	Pass
703.9	704	0.03	/	2	703.947	-34.88	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

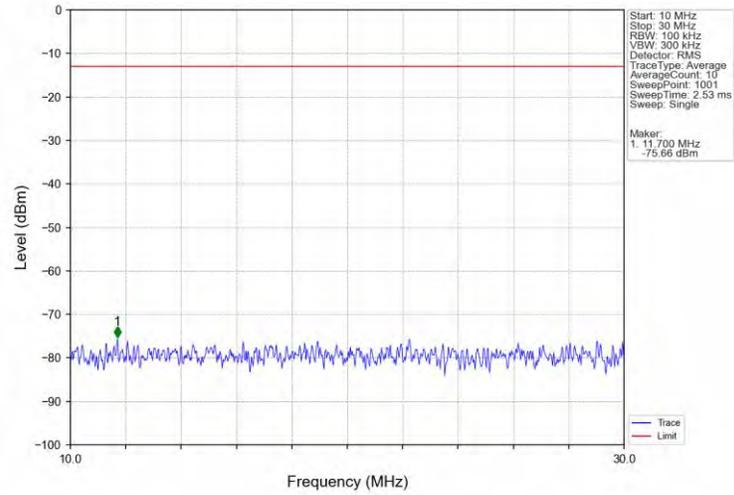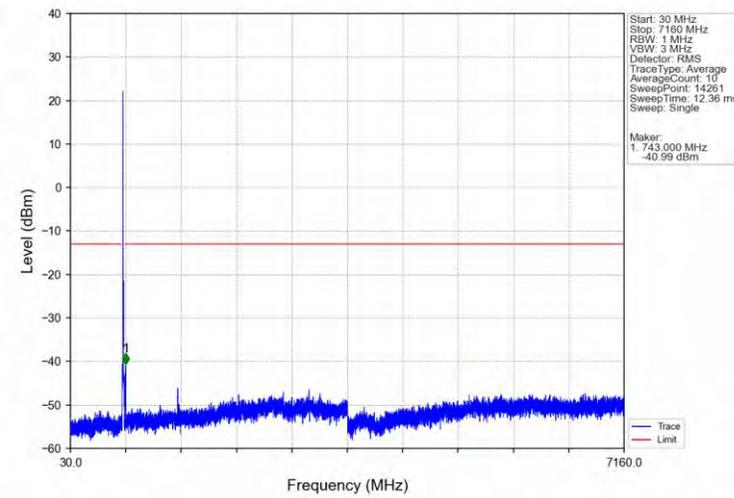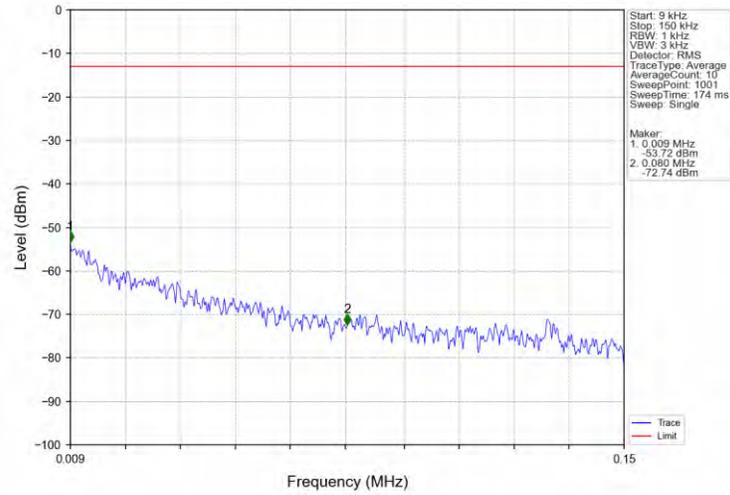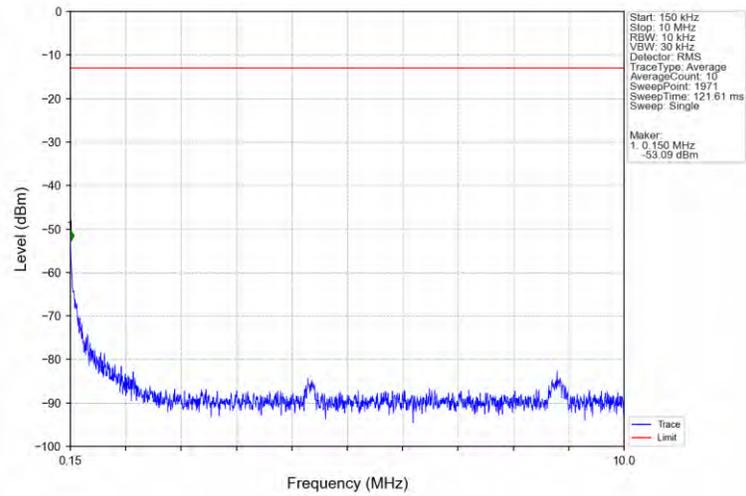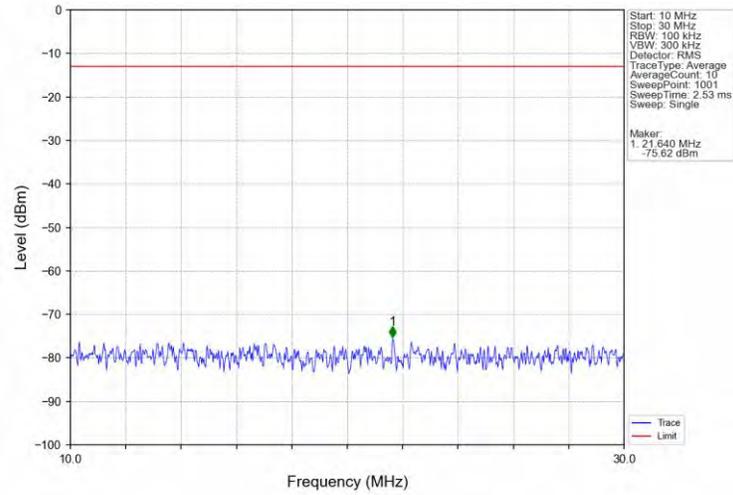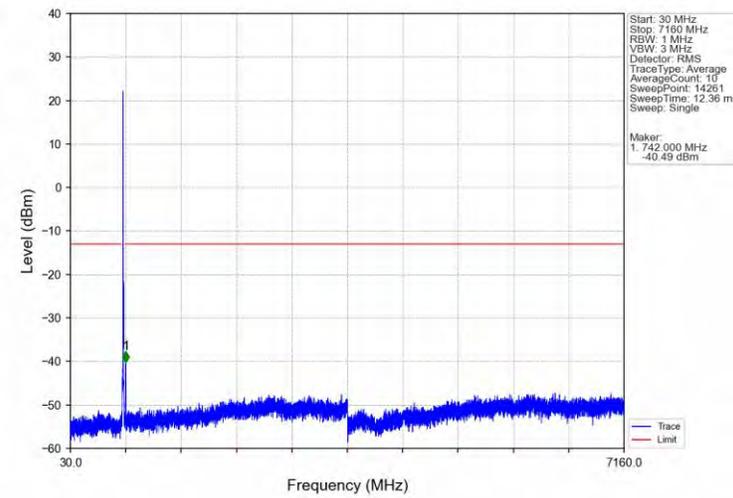| Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV |
|---|

Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV
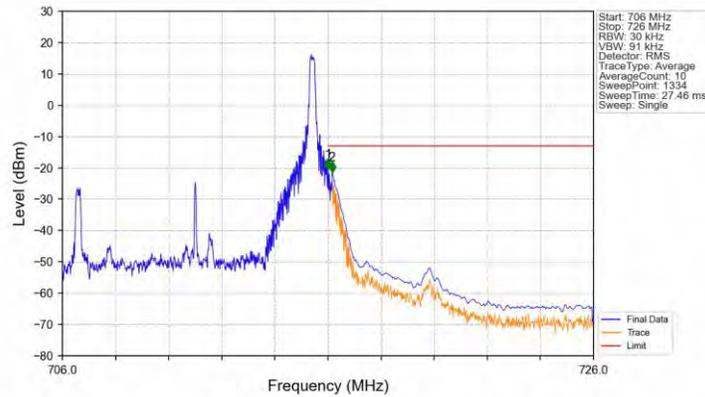

Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

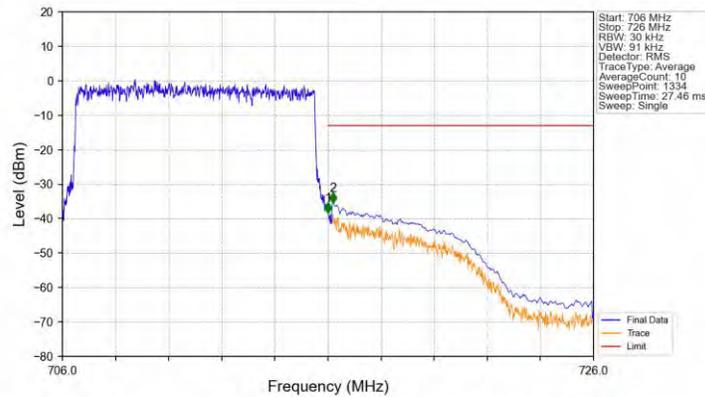Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV

Start: 706 MHz
Stop: 726 MHz
RBW: 30 kHz
VBW: 91 kHz
Detector: RMS
TraceType: Average
AverageCount: 10
SweepPoint: 1334
SweepTime: 27.46 ms
Sweep: Single

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-20.46	-13	Pass
716.1	726	0.1	CHP	2	716.158	-21.47	-13	Pass

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

Start: 706 MHz
Stop: 726 MHz
RBW: 30 kHz
VBW: 91 kHz
Detector: RMS
TraceType: Average
AverageCount: 10
SweepPoint: 1334
SweepTime: 27.46 ms
Sweep: Single

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-38.36	-13	Pass
716.1	726	0.1	CHP	2	716.188	-35.58	-13	Pass

********************** End of Report **********************