

LTE Band 13 Test Data

FCC ID: 2BSYK-E03

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1. Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Gain (dB)	ERP (dBm)	ERP Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.78	0.19	21.82	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.39	0.19	21.43	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.06	0.19	22.10	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#0	23.74	0.19	21.78	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#6	23.27	0.19	21.31	34.77	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.92	0.19	19.96	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.92	0.19	20.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.92	0.19	21.96	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.07	0.19	21.11	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.49	0.19	20.53	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.82	0.19	20.86	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#6	23.86	0.19	21.90	34.77	PASS
Band13	5MHz	QPSK	23230	12RB#13	24.10	0.19	22.14	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.86	0.19	20.90	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.61	0.19	21.65	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.66	0.19	20.70	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.06	0.19	21.10	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.76	0.19	20.80	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.24	0.19	20.28	34.77	PASS
Band13	5MHz	QPSK	23255	12RB#13	23.76	0.19	21.80	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	24.26	0.19	22.30	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.86	0.19	21.90	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.75	0.19	20.79	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.91	0.19	20.95	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#0	23.51	0.19	21.55	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#6	22.92	0.19	20.96	34.77	PASS
Band13	5MHz	16QAM	23205	12RB#13	23.68	0.19	21.72	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	23.96	0.19	22.00	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.14	0.19	20.18	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.52	0.19	21.56	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.15	0.19	21.19	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#0	23.41	0.19	21.45	34.77	PASS
Band13	5MHz	16QAM	23230	12RB#6	23.06	0.19	21.10	34.77	PASS

Band13	5MHz	16QAM	23230	12RB#13	22.48	0.19	20.52	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.95	0.19	20.99	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.33	0.19	21.37	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	24.07	0.19	22.11	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.64	0.19	20.68	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#0	23.15	0.19	21.19	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#6	24.06	0.19	22.10	34.77	PASS
Band13	5MHz	16QAM	23255	12RB#13	24.17	0.19	22.21	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.66	0.19	20.70	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.37	0.19	20.41	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.61	0.19	21.65	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.91	0.19	20.95	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.68	0.19	20.72	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#12	23.39	0.19	21.43	34.77	PASS
Band13	10MHz	QPSK	23230	25RB#25	23.14	0.19	21.18	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.75	0.19	20.79	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.52	0.19	21.56	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.12	0.19	21.16	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.47	0.19	21.51	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#0	22.76	0.19	20.80	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#12	23.92	0.19	21.96	34.77	PASS
Band13	10MHz	16QAM	23230	25RB#25	23.75	0.19	21.79	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	23.65	0.19	21.69	34.77	PASS

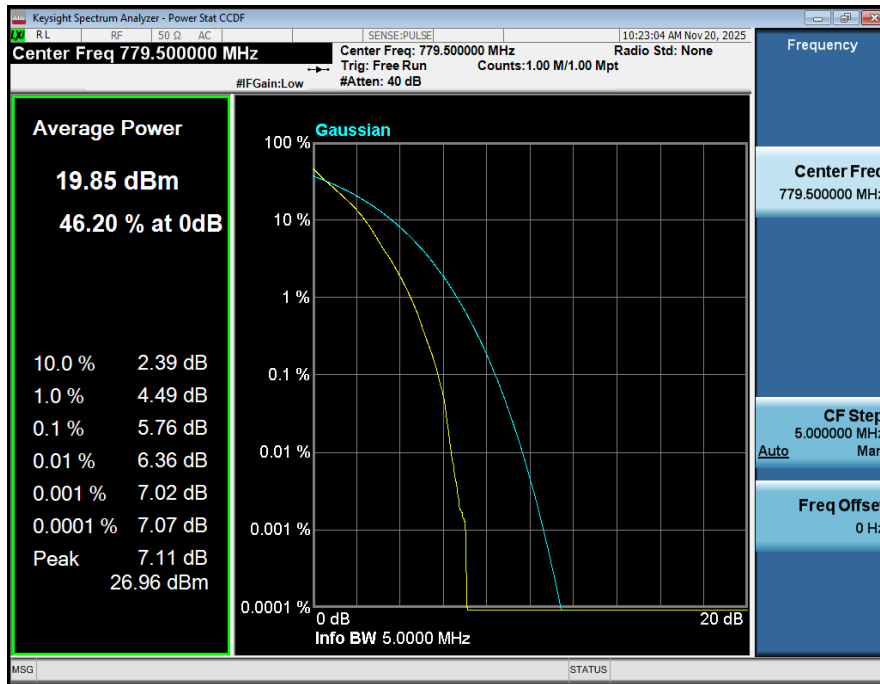
ERP = Conducted Power + ANT Gain - 2.15

2. Peak-to-Average Ratio(CCDF)

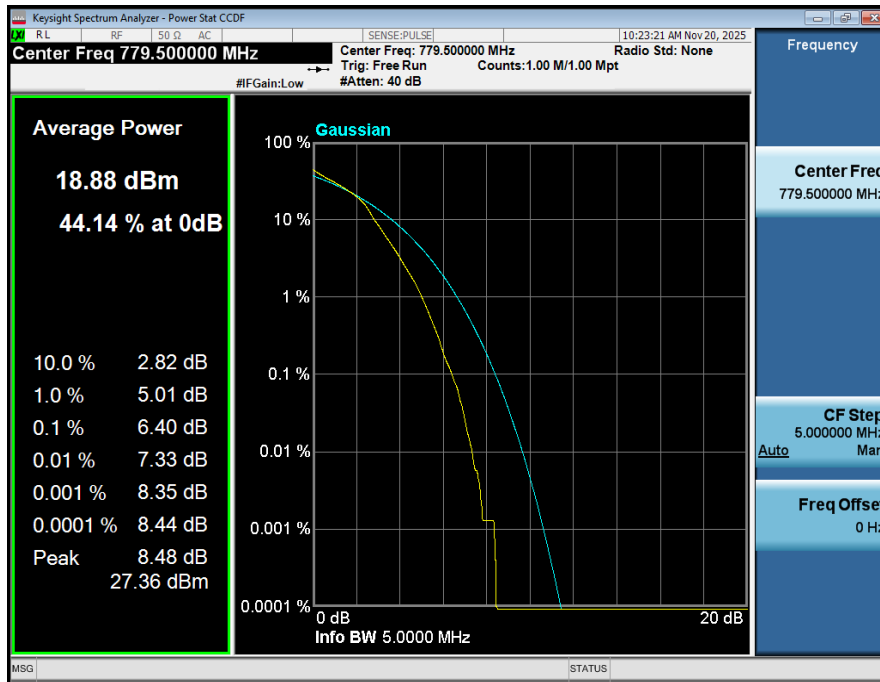
Test Result

Condition	Band	Modulation	BW(MHz)	Frequency(MHz)	RB_Size	RB_start	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NV_NT	Band 13	QPSK	5M	779.5	25	0	5.76	13.00	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	6.40	13.00	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	5.69	13.00	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	6.48	13.00	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	5.72	13.00	Pass
NV_NT	Band 13	16QAM	5M	784.5	25	0	6.40	13.00	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	5.73	13.00	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	6.37	13.00	Pass

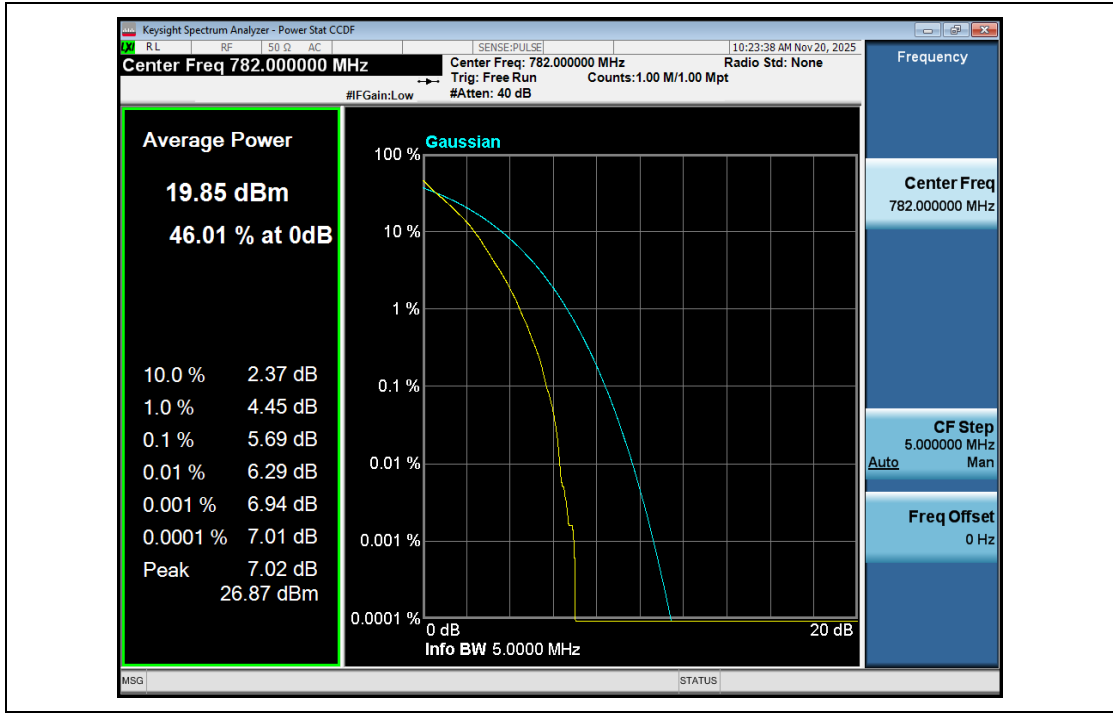
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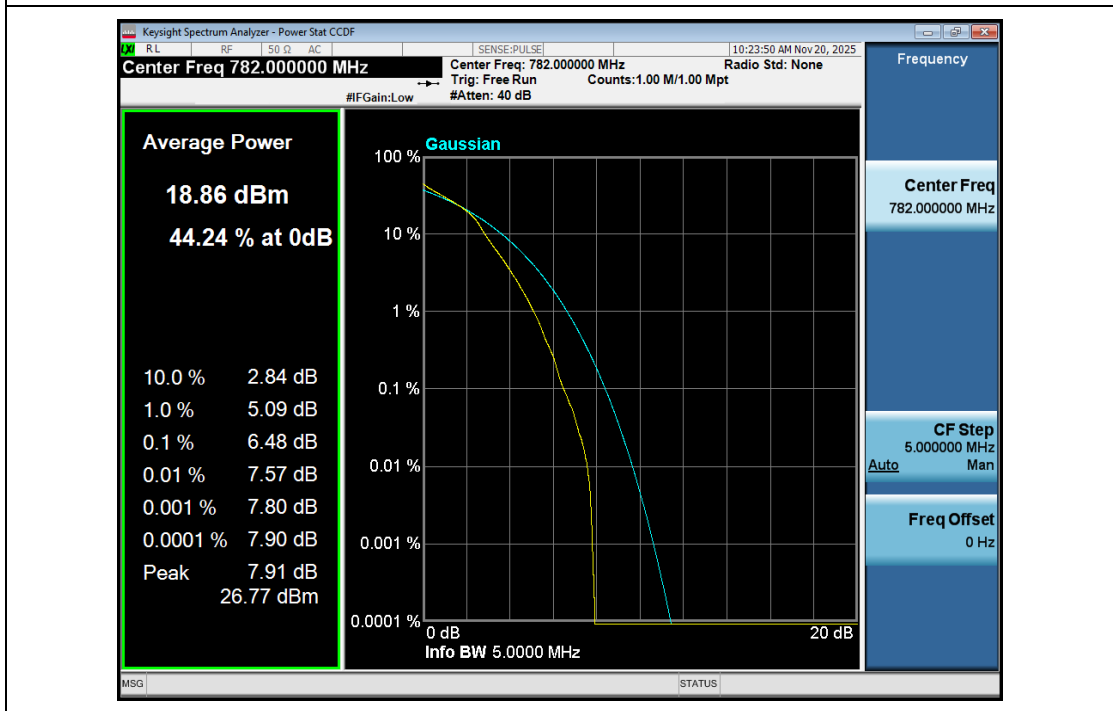
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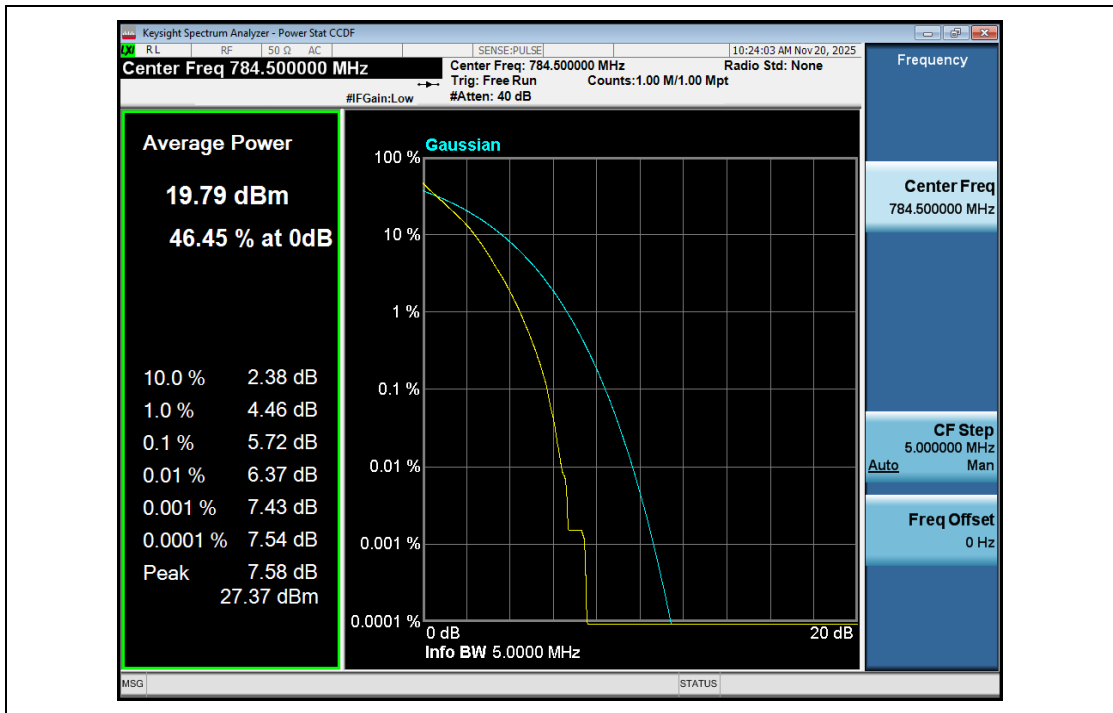
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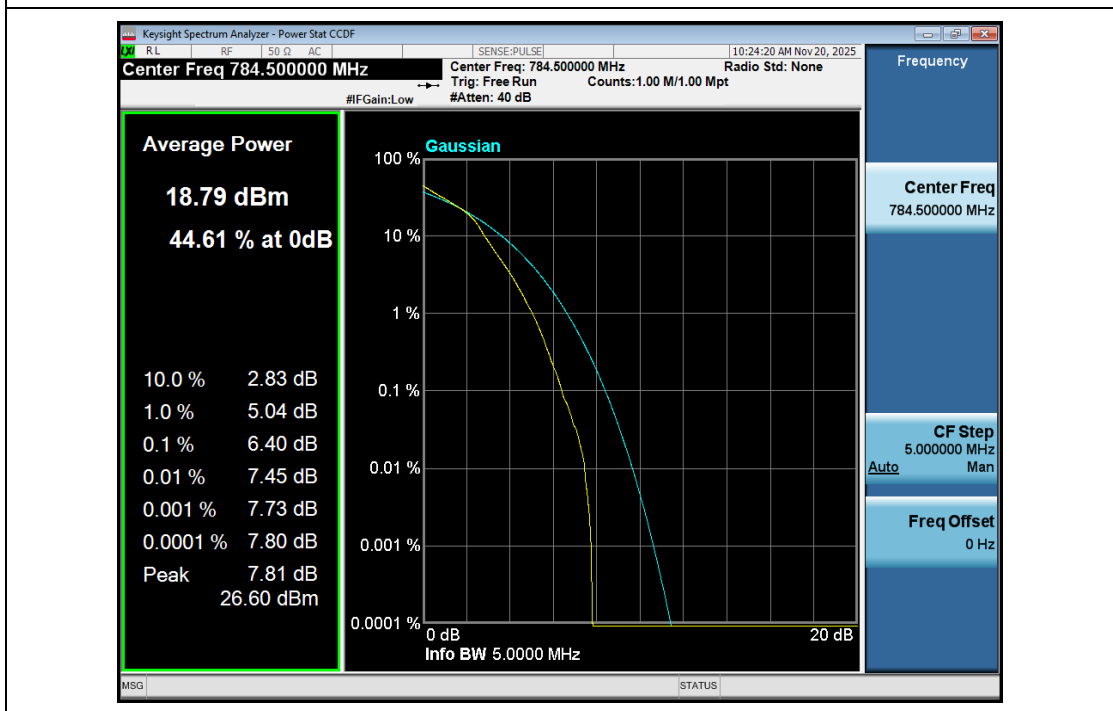
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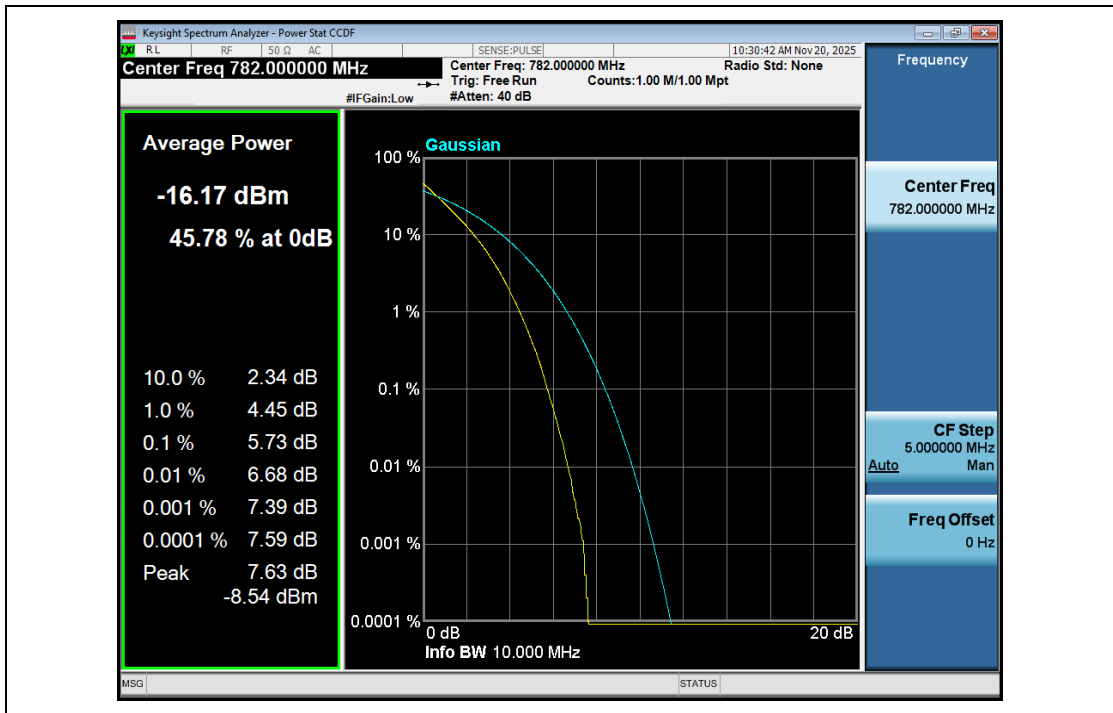
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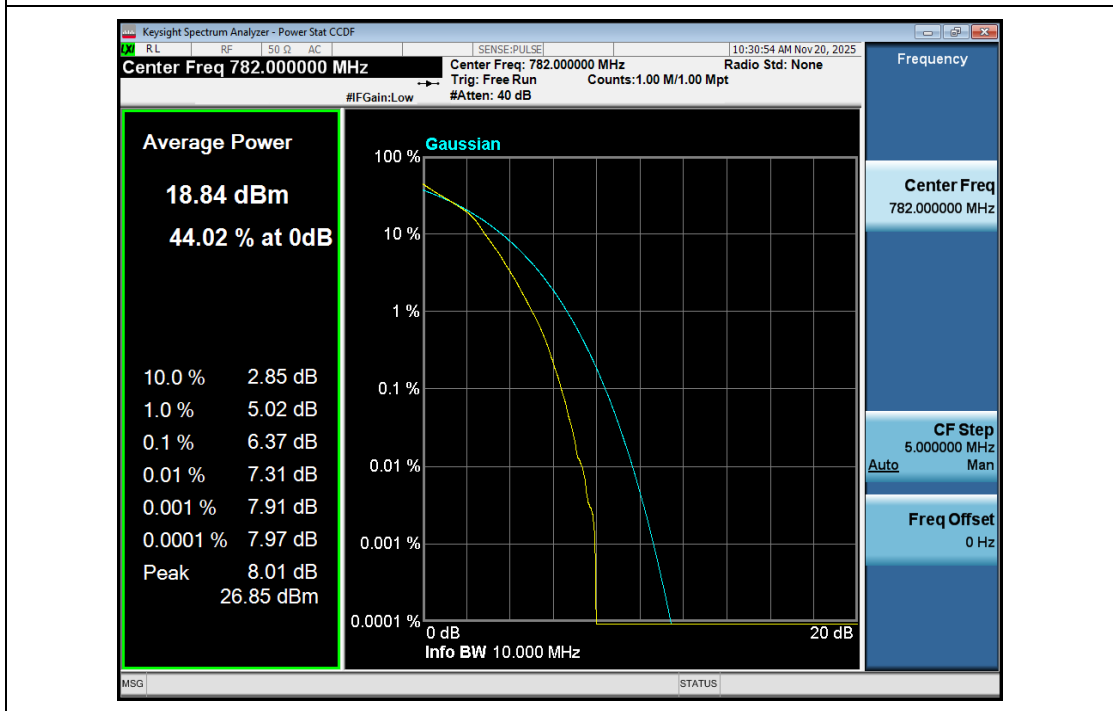
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SA_65_NT_NV_0_Band_13_QPSK_10M_CH23230_50_0



SA_65_NT_NV_0_Band_13_16QAM_10M_CH23230_50_0

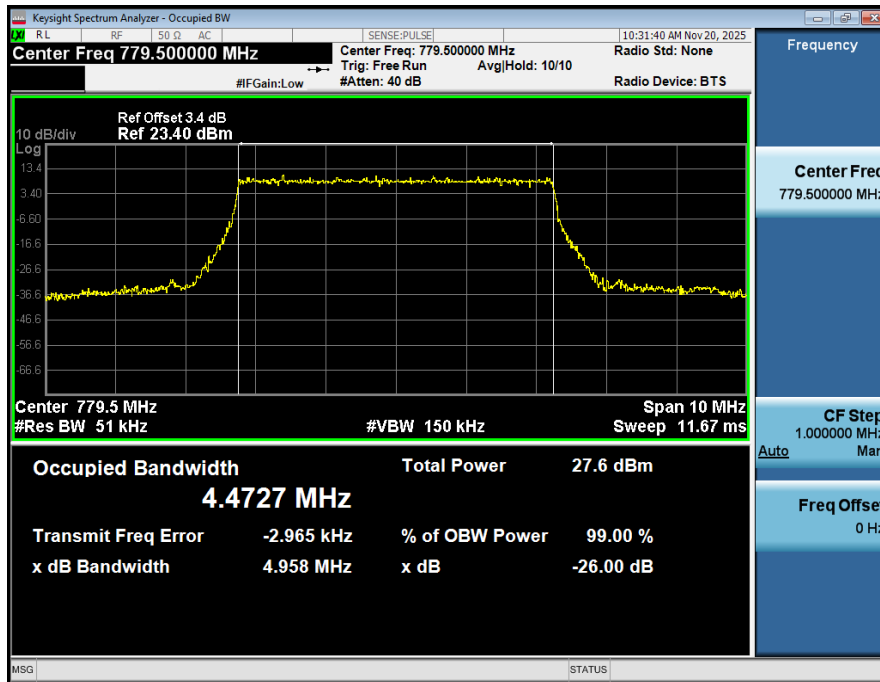


3. 26dB Bandwidth and Occupied Bandwidth

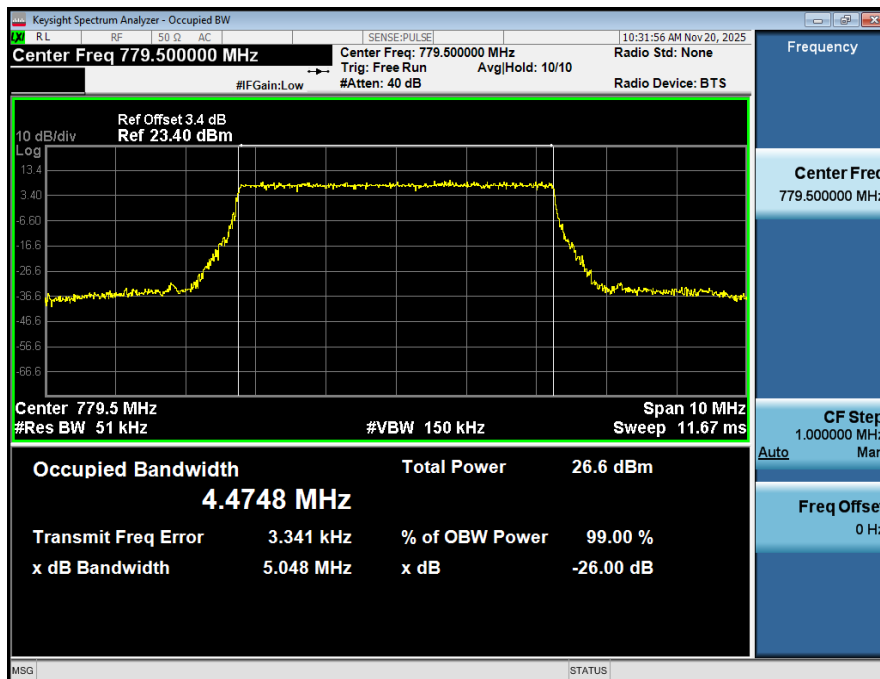
Test Result

Condition	Band	Modulation	BW(MHz)	Frequency(MHz)	RB_Size	RB_start	OBW(MHz)	-26EBW(MHz)
NV_NT	Band 13	QPSK	5M	779.5	25	0	4.4727	4.9576
NV_NT	Band 13	16QAM	5M	779.5	25	0	4.4748	5.0476
NV_NT	Band 13	QPSK	5M	782.0	25	0	4.4802	4.9678
NV_NT	Band 13	16QAM	5M	782.0	25	0	4.4723	4.9729
NV_NT	Band 13	QPSK	5M	784.5	25	0	4.4642	5.0248
NV_NT	Band 13	16QAM	5M	784.5	25	0	4.4643	4.9449
NV_NT	Band 13	QPSK	10M	782.0	50	0	8.9522	9.8980
NV_NT	Band 13	16QAM	10M	782.0	50	0	8.9476	9.8562

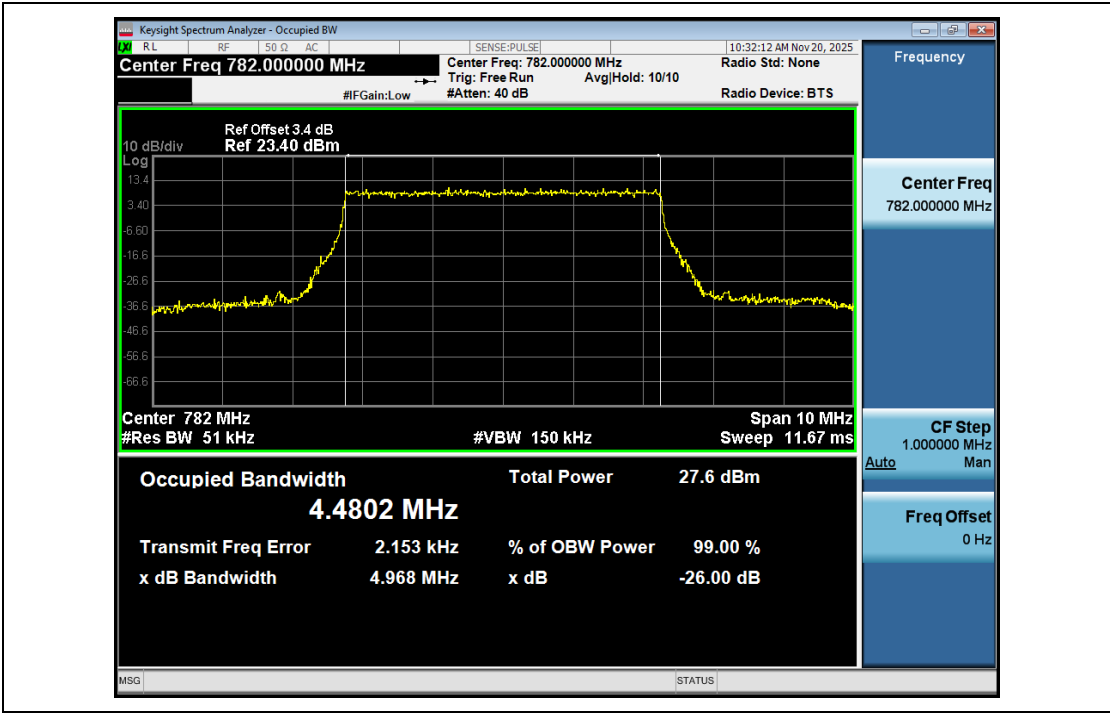
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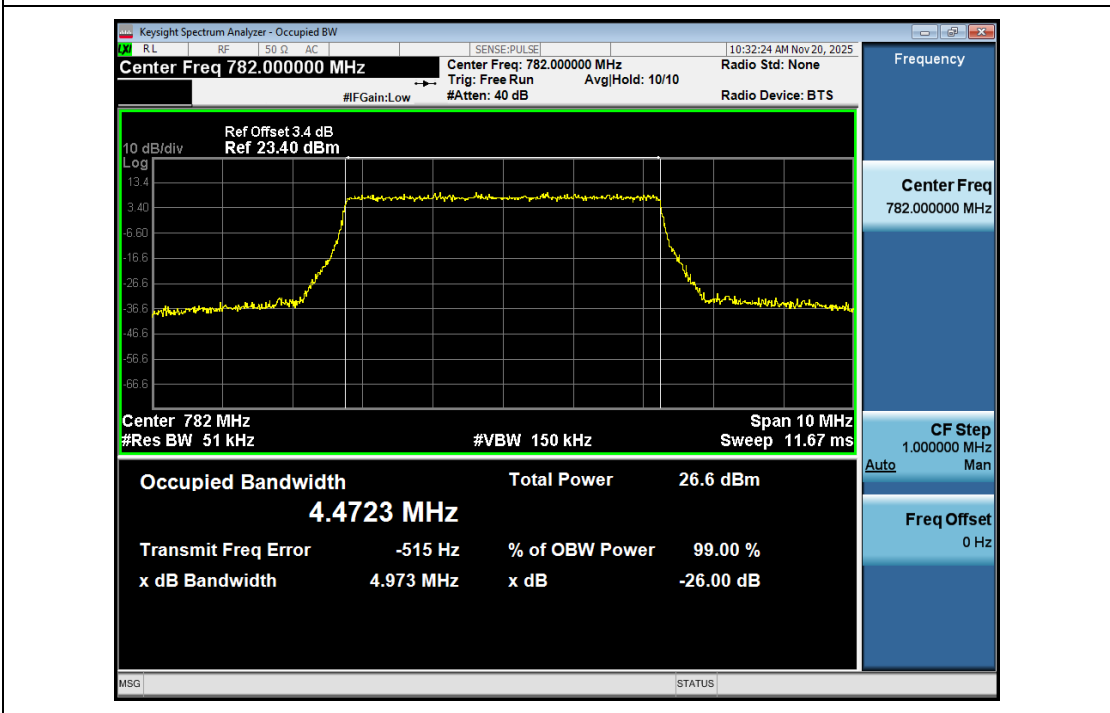
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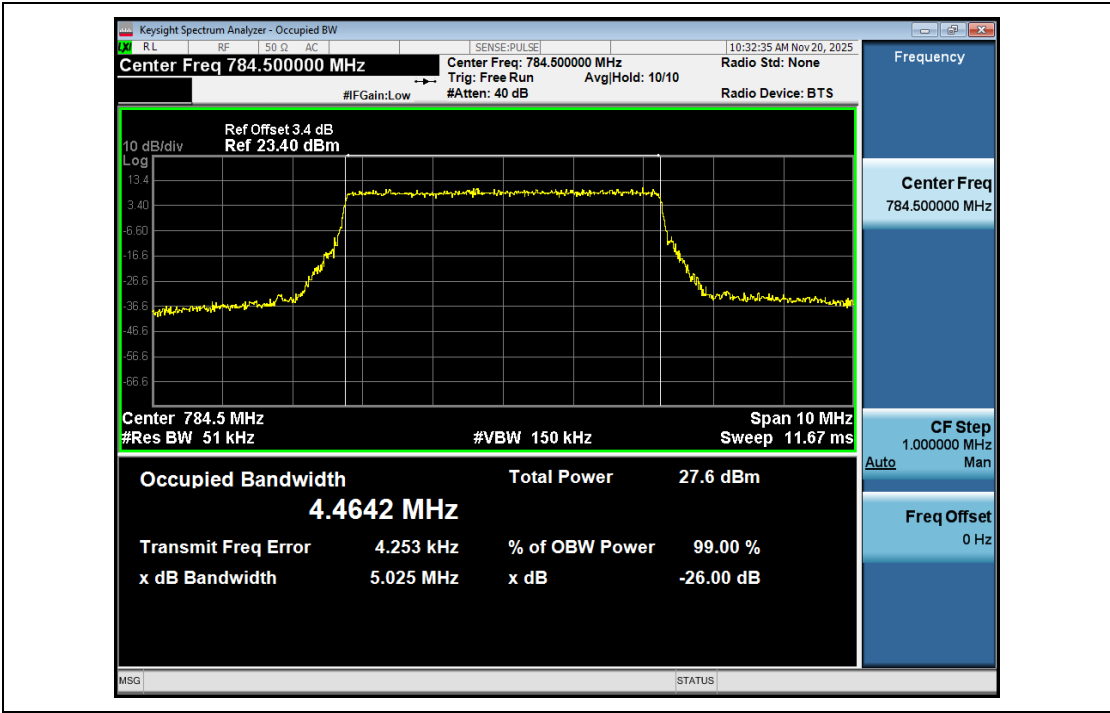
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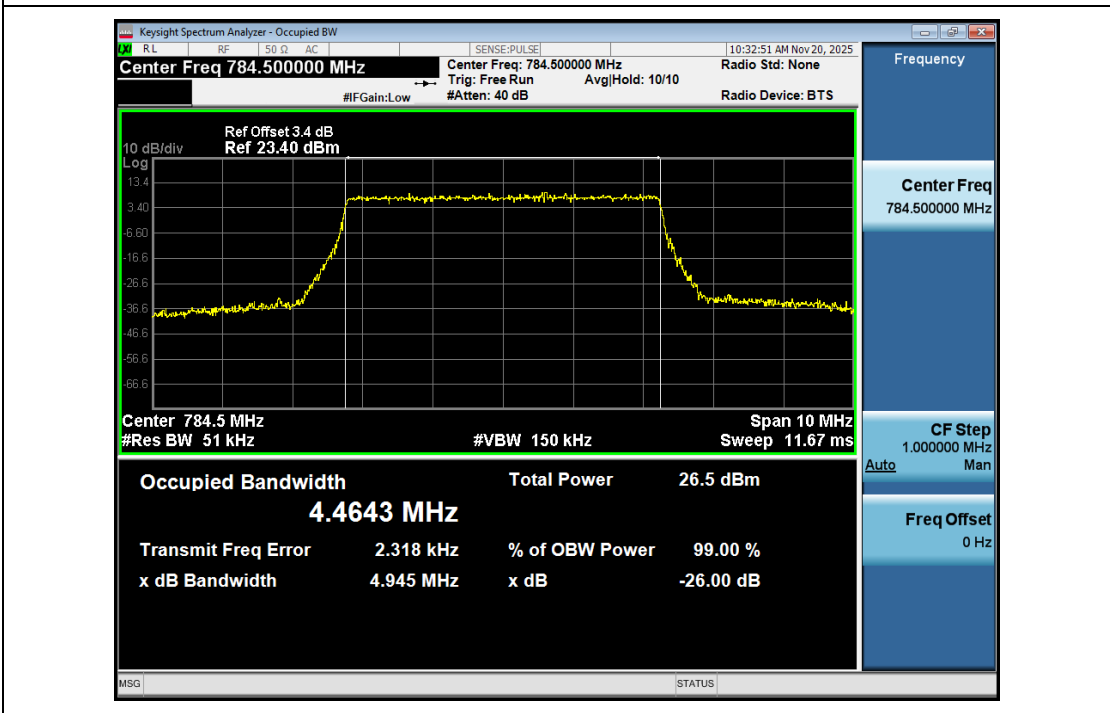
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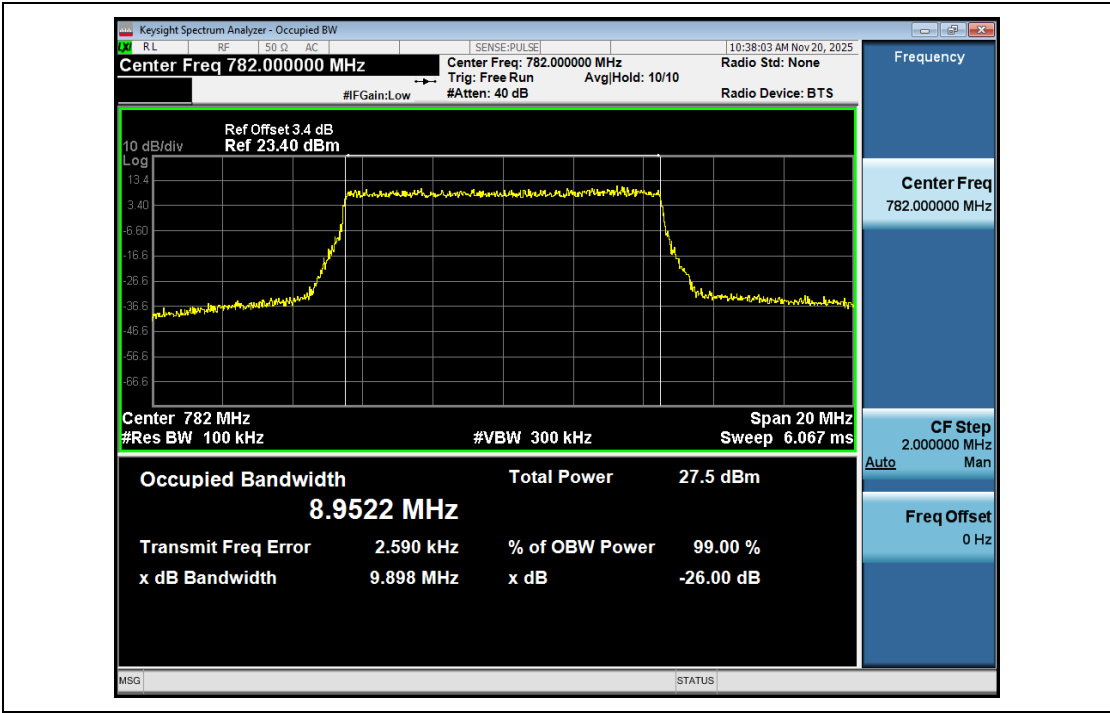
SA_65_NT_NV_0_Band_13_QPSK_5M_CH23255_25_0



SA_65_NT_NV_0_Band_13_16QAM_5M_CH23255_25_0



SA_65_NT_NV_0_Band_13_QPSK_10M_CH23230_50_0



SA_65_NT_NV_0_Band_13_16QAM_10M_CH23230_50_0



4. Unwanted Spurious Emission&Band Edge

Test Result

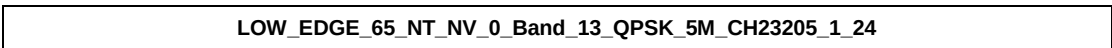
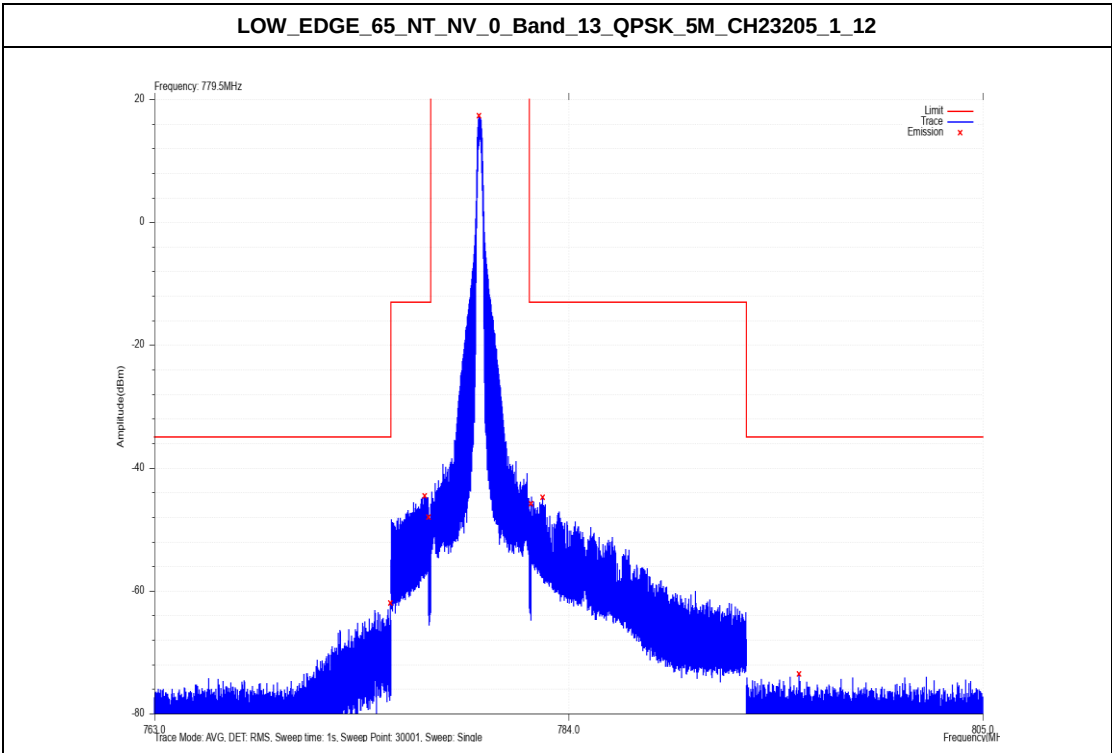
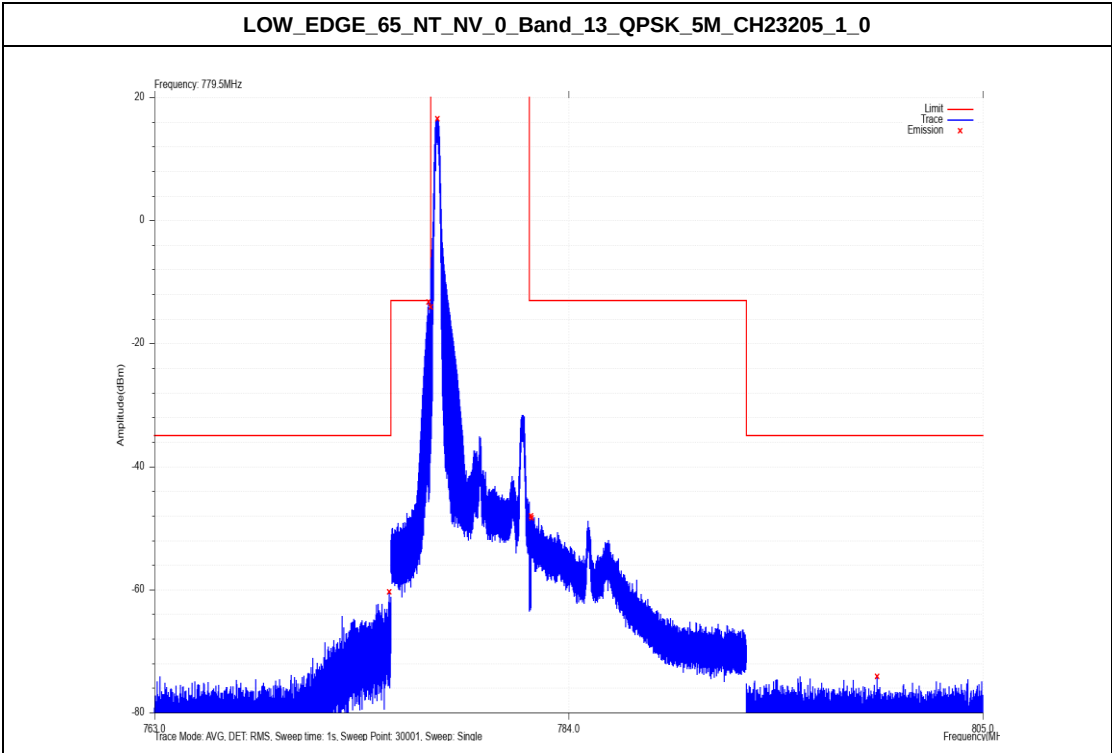
Condition	Band	Modulation	BW (MHz)	Frequency (MHz)	RB_Size	RB_start	RBW (kHz)	Test Freq Range (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Result
NV_NT	Band 13	QPSK	5M	779.5	1	0	6.25	763.0~775.0	774.898	-60.34	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	100	775.0~776.9	776.899	-13.27	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	30	776.9~777.0	776.999	-14.05	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	30	782.0~782.1	782.078	-47.98	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	100	782.1~793.0	782.122	-48.33	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	6.25	793.0~805.0	799.641	-74.15	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	12	6.25	763.0~775.0	774.958	-61.94	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	12	100	775.0~776.9	776.707	-44.53	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	12	30	776.9~777.0	776.906	-48.01	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	12	30	782.0~782.1	782.093	-45.86	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	12	100	782.1~793.0	782.689	-44.82	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	12	6.25	793.0~805.0	795.686	-73.52	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	24	6.25	763.0~775.0	773.959	-58.83	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	24	100	775.0~776.9	776.494	-34.64	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	24	30	776.9~777.0	776.984	-39.52	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	24	30	782.0~782.1	782.045	-13.22	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	24	100	782.1~793.0	782.109	-14.12	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	24	6.25	793.0~805.0	797.520	-74.34	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	25	0	6.25	763.0~775.0	774.361	-48.82	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	25	0	100	775.0~776.9	776.900	-24.36	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	25	0	30	776.9~777.0	776.997	-25.51	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	25	0	30	782.0~782.1	782.000	-25.06	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	25	0	100	782.1~793.0	782.111	-24.80	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	25	0	6.25	793.0~805.0	793.569	-55.74	-35	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	1	0.009~0.150	0.011	-56.49	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	10	0.150~30.000	0.152	-56.29	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	100	30.000~763.000	752.640	-62.19	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	100	805.000~1000.000	918.990	-62.10	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	1000	1000.000~1559.000	1554.640	-49.91	-13	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	1000	1559.000~1610.000	1563.752	-56.11	-40	Pass
NV_NT	Band 13	QPSK	5M	779.5	1	0	1000	1610.000~10000.000	5781.228	-53.20	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	6.25	763.0~775.0	774.460	-57.61	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	100	775.0~776.9	776.899	-13.78	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	30	776.9~777.0	776.999	-14.95	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	30	782.0~782.1	782.059	-47.64	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	100	782.1~793.0	782.218	-48.29	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	6.25	793.0~805.0	795.564	-74.16	-35	Pass

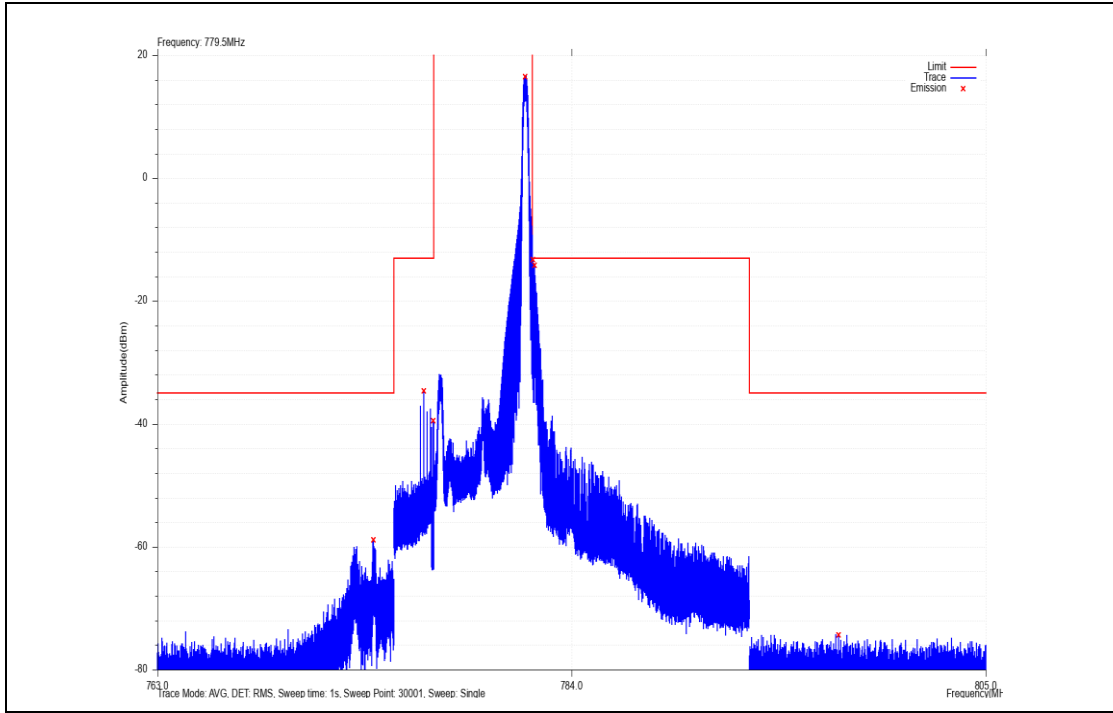
NV_NT	Band 13	16QAM	5M	779.5	1	12	6.25	763.0~775.0	774.840	-61.59	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	12	100	775.0~776.9	776.425	-45.19	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	12	30	776.9~777.0	776.956	-48.29	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	12	30	782.0~782.1	782.010	-46.89	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	12	100	782.1~793.0	782.115	-45.87	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	12	6.25	793.0~805.0	794.500	-74.36	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	24	6.25	763.0~775.0	774.041	-58.49	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	24	100	775.0~776.9	776.882	-41.41	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	24	30	776.9~777.0	776.933	-36.69	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	24	30	782.0~782.1	782.004	-13.95	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	24	100	782.1~793.0	782.101	-13.55	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	24	6.25	793.0~805.0	798.677	-73.54	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	6.25	763.0~775.0	774.437	-48.38	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	100	775.0~776.9	776.897	-25.51	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	30	776.9~777.0	776.995	-26.20	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	30	782.0~782.1	782.000	-25.95	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	100	782.1~793.0	782.104	-25.36	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	25	0	6.25	793.0~805.0	793.669	-55.07	-35	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	1	0.009~0.150	0.015	-56.73	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	10	0.150~30.000	0.172	-59.51	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	100	30.000~763.000	702.454	-62.60	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	100	805.000~1000.000	850.585	-62.39	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	1000	1000.000~1559.000	1554.509	-49.64	-13	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	1000	1559.000~1610.000	1580.678	-56.29	-40	Pass
NV_NT	Band 13	16QAM	5M	779.5	1	0	1000	1610.000~10000.000	5293.769	-47.21	-13	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	1	0.009~0.150	0.010	-57.01	-13	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	10	0.150~30.000	0.165	-57.79	-13	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	100	30.000~763.000	521.354	-62.02	-13	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	100	805.000~1000.000	909.890	-61.52	-13	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	1000	1000.000~1559.000	1304.301	-56.35	-13	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	1000	1559.000~1610.000	1564.510	-54.53	-40	Pass
NV_NT	Band 13	QPSK	5M	782.0	25	0	1000	1610.000~10000.000	6336.926	-52.99	-13	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	1	0.009~0.150	0.011	-56.57	-13	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	10	0.150~30.000	0.155	-59.04	-13	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	100	30.000~763.000	454.602	-62.80	-13	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	100	805.000~1000.000	960.272	-62.78	-13	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	1000	1000.000~1559.000	1495.982	-56.27	-13	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	1000	1559.000~1610.000	1564.421	-54.93	-40	Pass
NV_NT	Band 13	16QAM	5M	782.0	25	0	1000	1610.000~10000.000	5938.960	-53.26	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	0	6.25	763.0~775.0	773.740	-71.40	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	0	100	775.0~781.9	781.889	-14.13	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	0	30	781.9~782.0	781.999	-14.03	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	0	30	787.0~787.1	787.008	-48.12	-13	Pass

NV_NT	Band 13	QPSK	5M	784.5	1	0	100	787.1~793.0	789.068	-42.00	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	0	6.25	793.0~805.0	793.214	-72.18	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	12	6.25	763.0~775.0	773.036	-72.85	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	12	100	775.0~781.9	781.855	-45.11	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	12	30	781.9~782.0	781.985	-47.37	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	12	30	787.0~787.1	787.072	-49.17	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	12	100	787.1~793.0	787.133	-44.85	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	12	6.25	793.0~805.0	793.229	-71.44	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	6.25	763.0~775.0	774.157	-73.14	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	100	775.0~781.9	781.863	-46.48	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	30	781.9~782.0	781.911	-37.56	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	30	787.0~787.1	787.001	-13.67	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	100	787.1~793.0	787.106	-13.27	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	6.25	793.0~805.0	795.432	-71.13	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	6.25	763.0~775.0	774.647	-59.18	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	100	775.0~781.9	781.886	-24.47	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	30	781.9~782.0	781.996	-25.77	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	30	787.0~787.1	787.016	-25.61	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	100	787.1~793.0	787.120	-25.06	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	25	0	6.25	793.0~805.0	793.821	-57.54	-35	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	1	0.009~0.150	0.011	-55.66	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	10	0.150~30.000	0.155	-56.67	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	100	30.000~763.000	721.195	-62.42	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	100	805.000~1000.000	942.995	-62.73	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	1000	1000.000~1559.000	1231.612	-56.36	-13	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	1000	1559.000~1610.000	1573.168	-48.98	-40	Pass
NV_NT	Band 13	QPSK	5M	784.5	1	24	1000	1610.000~10000.000	5886.942	-53.32	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	0	6.25	763.0~775.0	773.869	-72.31	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	0	100	775.0~781.9	781.883	-14.55	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	0	30	781.9~782.0	781.999	-14.91	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	0	30	787.0~787.1	787.016	-45.27	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	0	100	787.1~793.0	788.407	-41.22	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	0	6.25	793.0~805.0	793.298	-71.94	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	12	6.25	763.0~775.0	774.900	-73.72	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	12	100	775.0~781.9	781.508	-45.54	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	12	30	781.9~782.0	781.956	-47.32	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	12	30	787.0~787.1	787.002	-48.42	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	12	100	787.1~793.0	787.321	-44.67	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	12	6.25	793.0~805.0	793.029	-71.07	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	6.25	763.0~775.0	773.742	-72.60	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	100	775.0~781.9	781.486	-36.96	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	30	781.9~782.0	781.974	-47.81	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	30	787.0~787.1	787.001	-14.36	-13	Pass

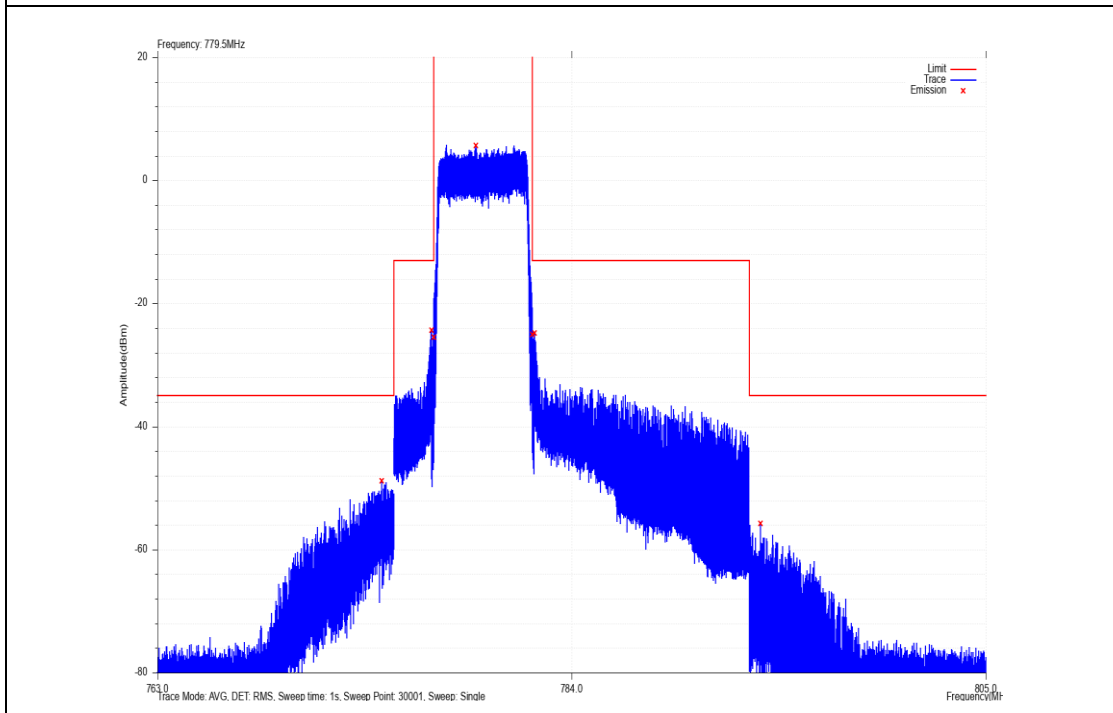
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NV_NT	Band 13	16QAM	5M	784.5	25	0	6.25	763.0~775.0	773.960	-61.95	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	25	0	100	775.0~781.9	781.896	-26.31	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	25	0	30	781.9~782.0	781.999	-26.89	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	25	0	30	787.0~787.1	787.001	-26.97	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	25	0	100	787.1~793.0	787.108	-26.49	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	25	0	6.25	793.0~805.0	793.010	-59.15	-35	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	1	0.009~0.150	0.010	-54.45	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	10	0.150~30.000	0.153	-56.18	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	100	30.000~763.000	751.761	-62.70	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	100	805.000~1000.000	880.634	-62.28	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	1000	1000.000~1559.000	1529.168	-56.24	-13	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	1000	1559.000~1610.000	1573.418	-48.37	-40	Pass
NV_NT	Band 13	16QAM	5M	784.5	1	24	1000	1610.000~10000.000	5295.447	-48.35	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	0	6.25	763.0~775.0	773.224	-57.18	-35	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	0	100	775.0~776.9	776.896	-17.44	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	0	30	776.9~777.0	776.999	-19.92	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	0	30	787.0~787.1	787.086	-50.57	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	0	100	787.1~793.0	787.118	-49.96	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	0	6.25	793.0~805.0	793.037	-58.69	-35	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	25	6.25	763.0~775.0	774.727	-64.74	-35	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	25	100	775.0~776.9	776.823	-49.04	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	25	30	776.9~777.0	776.997	-52.15	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	25	30	787.0~787.1	787.097	-51.37	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	25	100	787.1~793.0	787.561	-49.67	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	25	6.25	793.0~805.0	793.223	-67.30	-35	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	49	6.25	763.0~775.0	771.011	-60.49	-35	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	49	100	775.0~776.9	776.857	-50.24	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	49	30	776.9~777.0	776.992	-44.87	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	49	30	787.0~787.1	787.001	-20.20	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	49	100	787.1~793.0	787.116	-18.18	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	1	49	6.25	793.0~805.0	795.291	-65.67	-35	Pass
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NV_NT	Band 13	QPSK	10M	782.0	50	0	30	787.0~787.1	787.030	-31.57	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	100	787.1~793.0	787.106	-28.67	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	6.25	793.0~805.0	793.118	-50.57	-35	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	1	0.009~0.150	0.010	-54.78	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	10	0.150~30.000	0.160	-58.48	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	100	30.000~763.000	663.288	-62.50	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	100	805.000~1000.000	911.431	-62.34	-13	Pass

NV_NT	Band 13	QPSK	10M	782.0	50	0	1000	1000.000~1559.000	1556.019	-56.17	-13	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	1000	1559.000~1610.000	1563.524	-55.68	-40	Pass
NV_NT	Band 13	QPSK	10M	782.0	50	0	1000	1610.000~10000.000	5846.111	-53.02	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	0	6.25	763.0~775.0	772.907	-62.10	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	0	100	775.0~776.9	776.895	-17.42	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	0	30	776.9~777.0	776.998	-20.16	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	0	30	787.0~787.1	787.019	-50.02	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	0	100	787.1~793.0	787.240	-40.36	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	0	6.25	793.0~805.0	793.029	-59.91	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	25	6.25	763.0~775.0	774.808	-64.54	-35	Pass
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NV_NT	Band 13	16QAM	10M	782.0	1	25	30	776.9~777.0	776.956	-51.67	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	25	30	787.0~787.1	787.072	-52.09	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	25	100	787.1~793.0	787.287	-48.95	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	25	6.25	793.0~805.0	793.101	-67.10	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	49	6.25	763.0~775.0	771.023	-61.55	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	49	100	775.0~776.9	776.857	-49.84	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	49	30	776.9~777.0	776.947	-44.37	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	49	30	787.0~787.1	787.001	-19.69	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	49	100	787.1~793.0	787.105	-17.21	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	1	49	6.25	793.0~805.0	795.194	-65.59	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	6.25	763.0~775.0	774.664	-48.13	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	100	775.0~776.9	776.833	-30.89	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	30	776.9~777.0	776.957	-33.41	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	30	787.0~787.1	787.006	-33.68	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	100	787.1~793.0	787.275	-30.30	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	6.25	793.0~805.0	793.032	-51.77	-35	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	1	0.009~0.150	0.098	-55.65	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	10	0.150~30.000	0.199	-57.65	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	100	30.000~763.000	708.538	-62.06	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	100	805.000~1000.000	861.498	-62.59	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	1000	1000.000~1559.000	1241.097	-56.38	-13	Pass
NV_NT	Band 13	16QAM	10M	782.0	50	0	1000	1559.000~1610.000	1564.226	-55.59	-40	Pass
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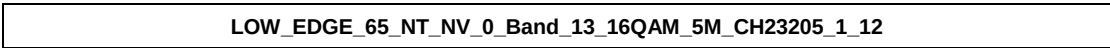
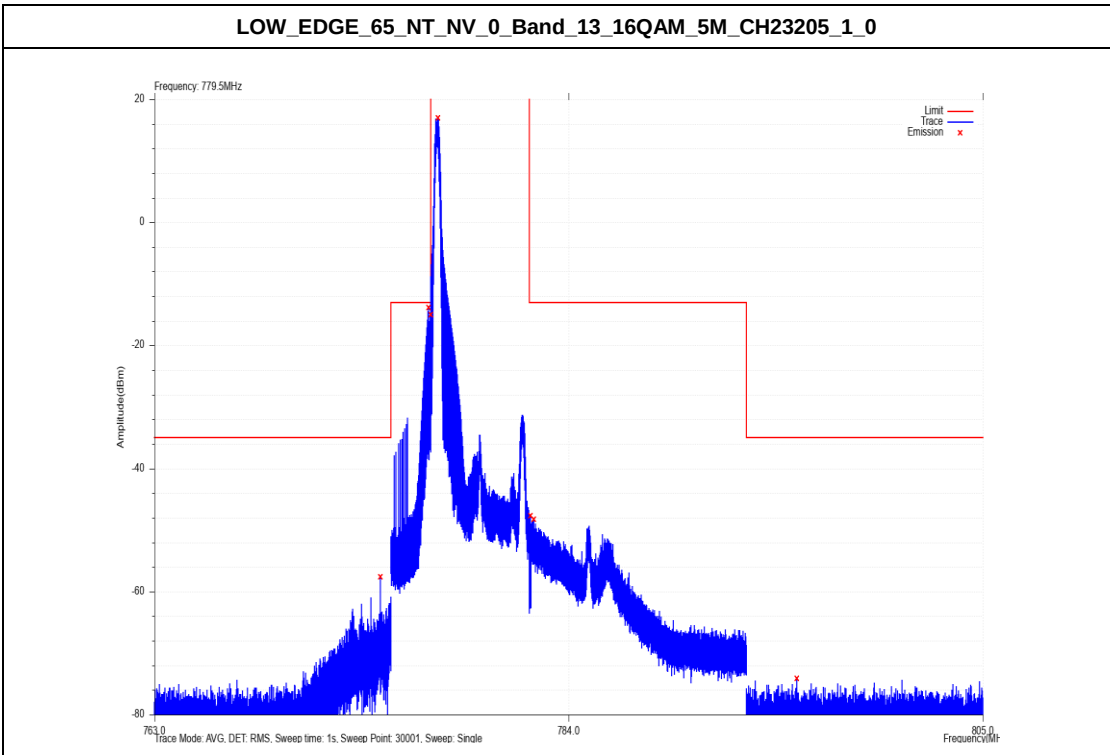
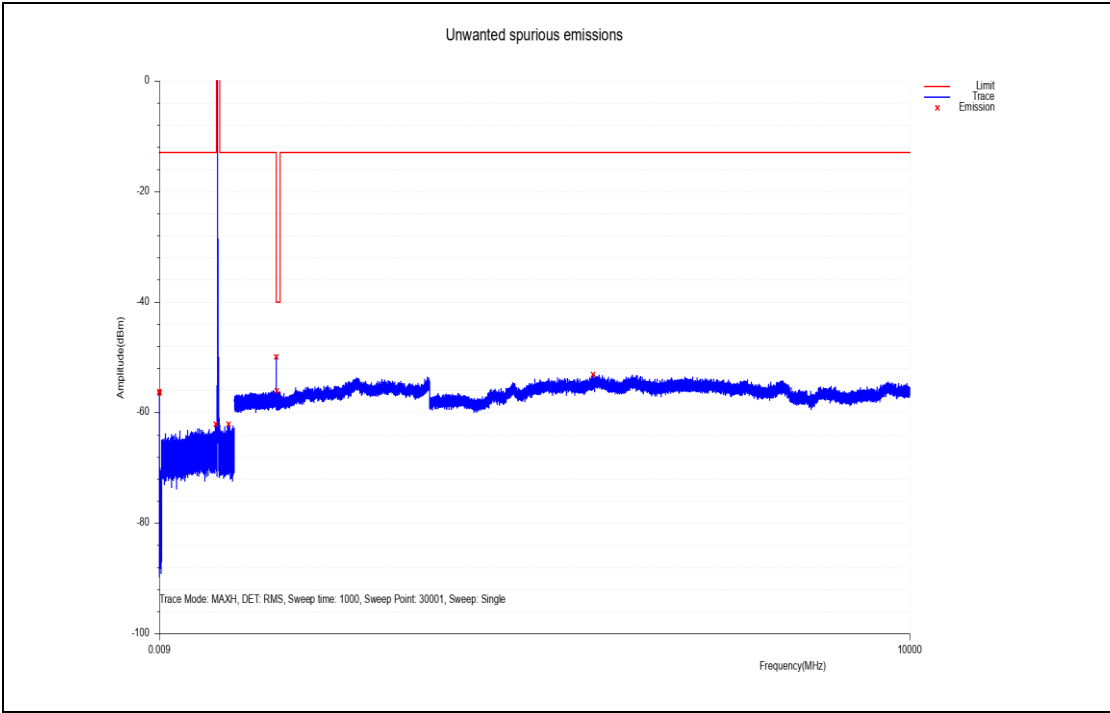


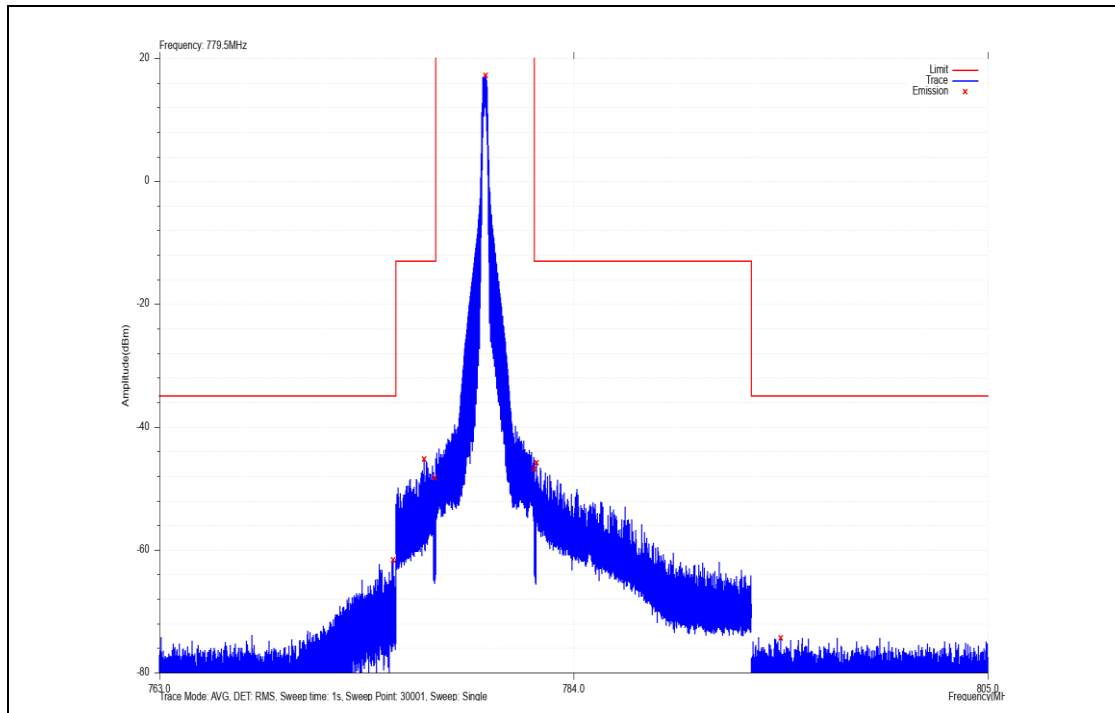


LOW_EDGE_65_NT_NV_0_Band_13_QPSK_5M_CH23205_25_0

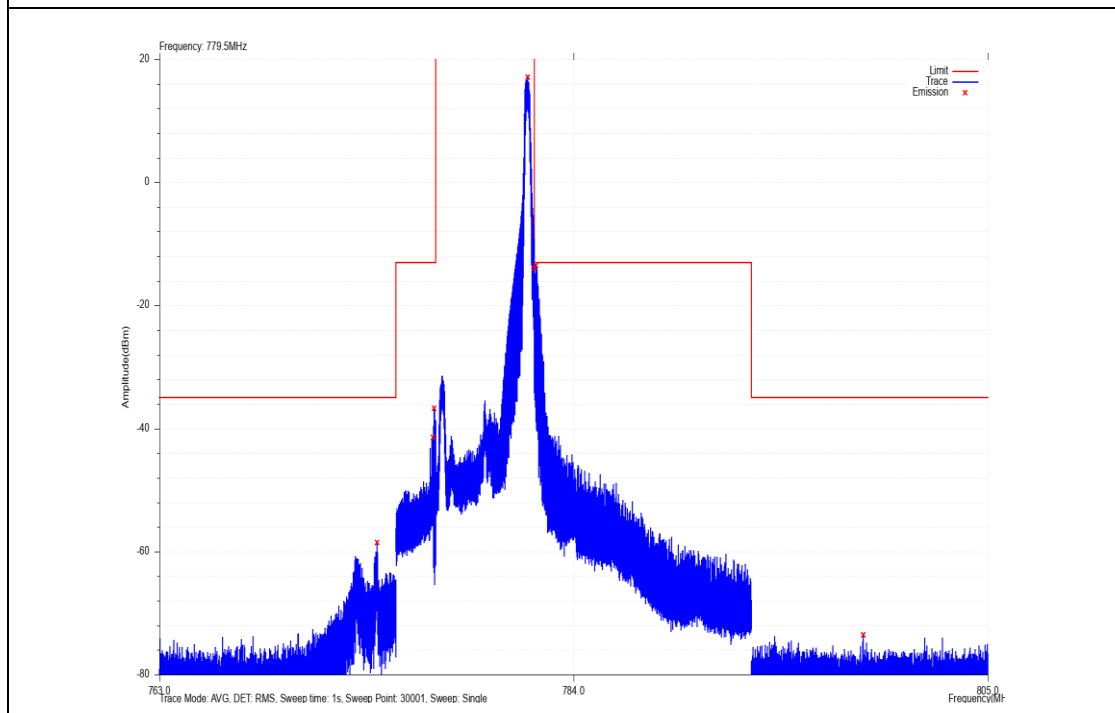


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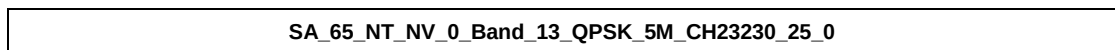
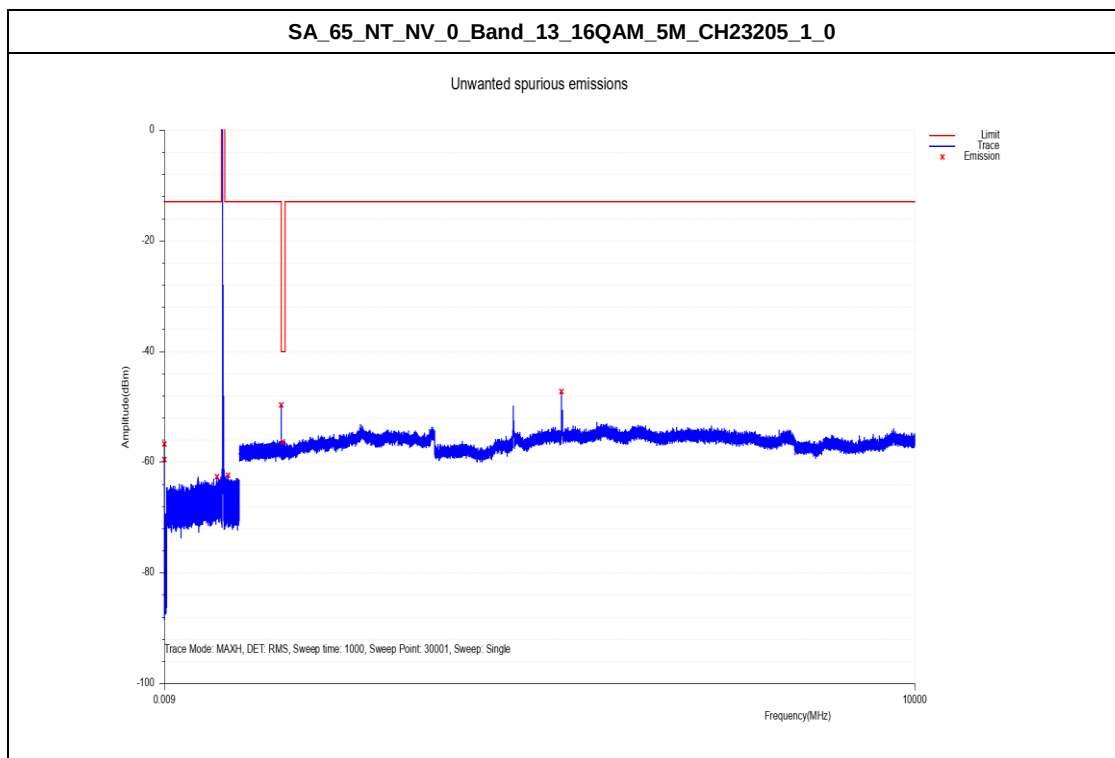
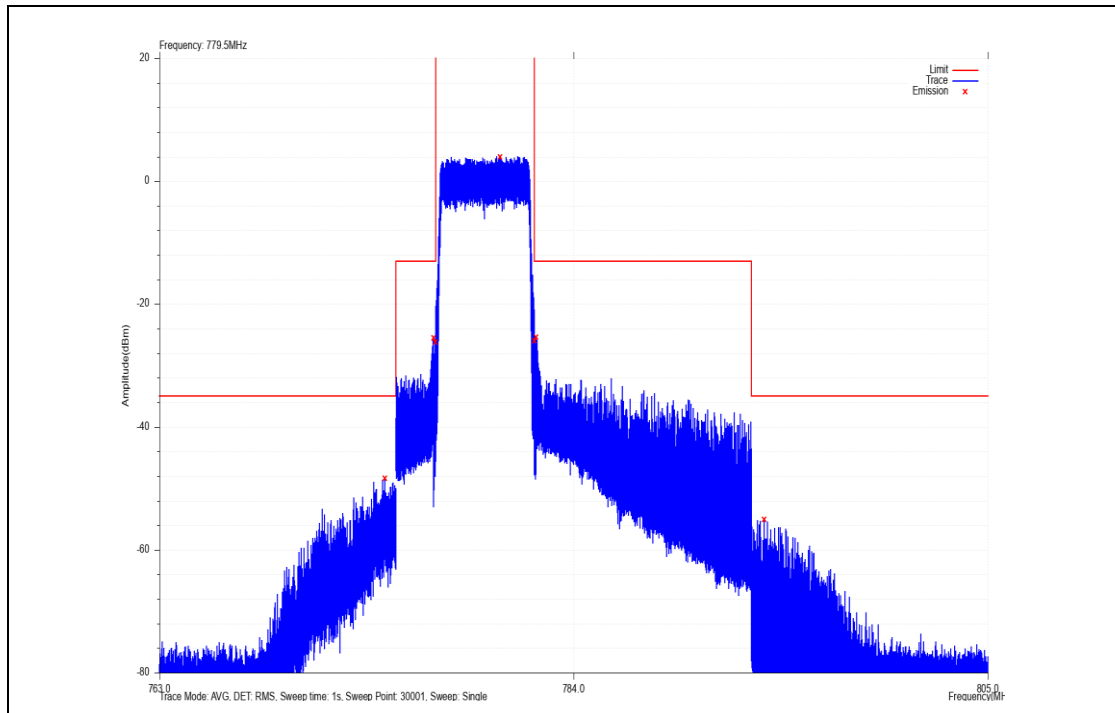


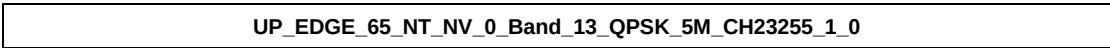
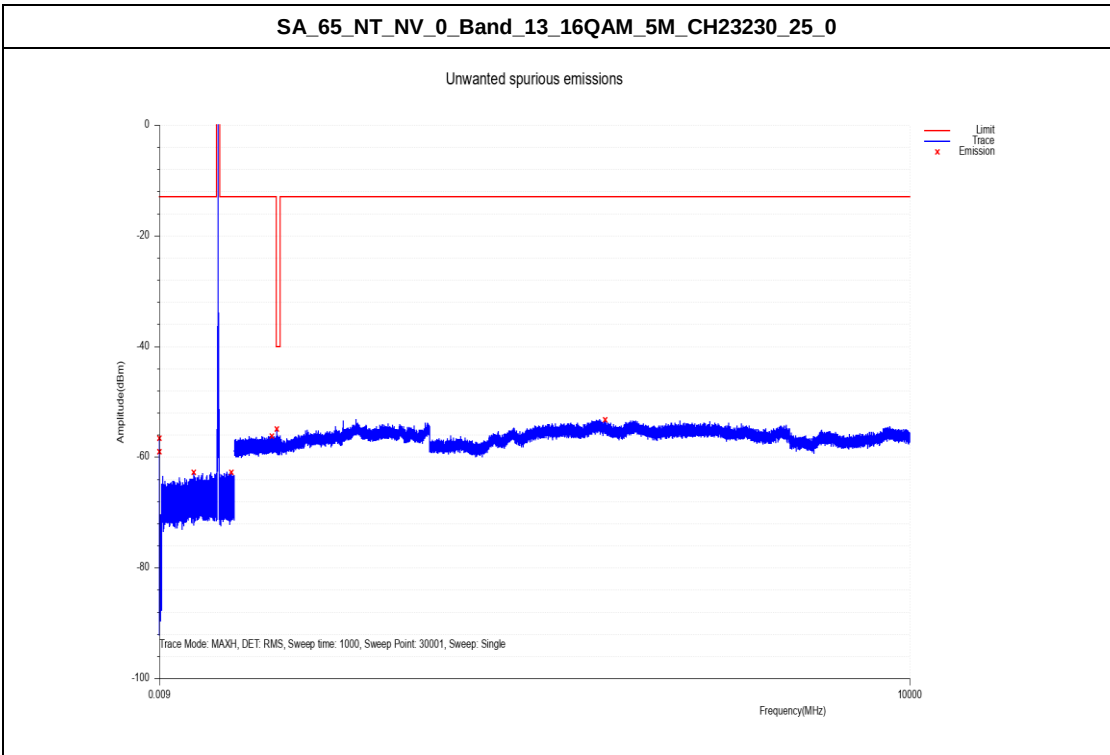
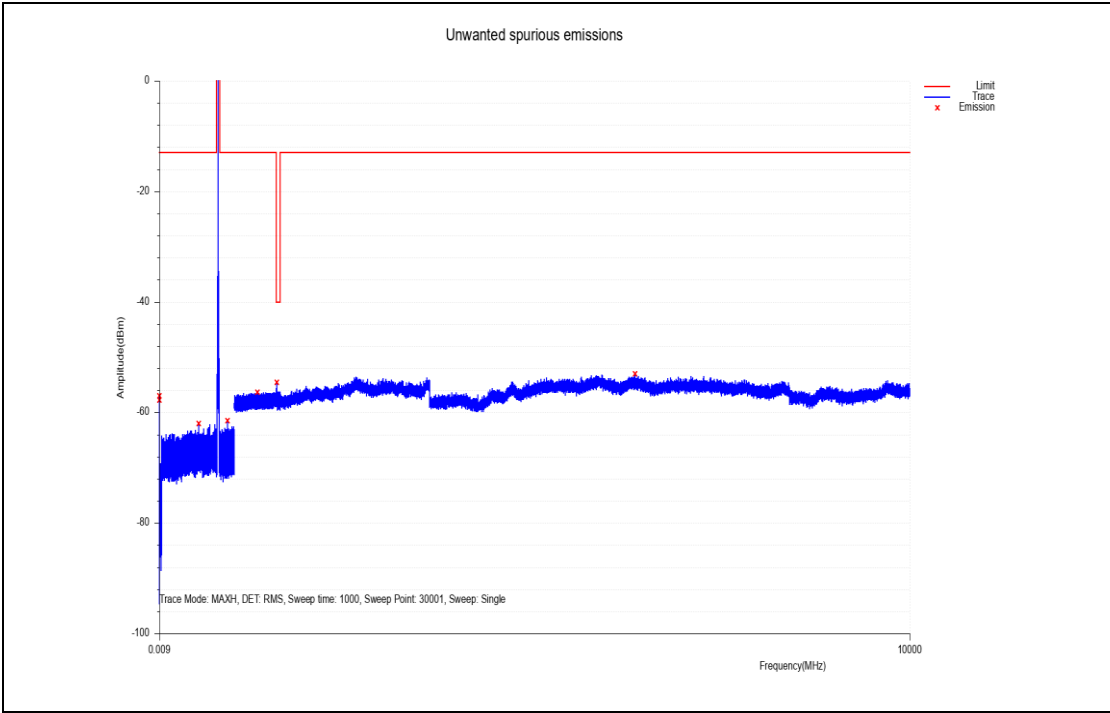


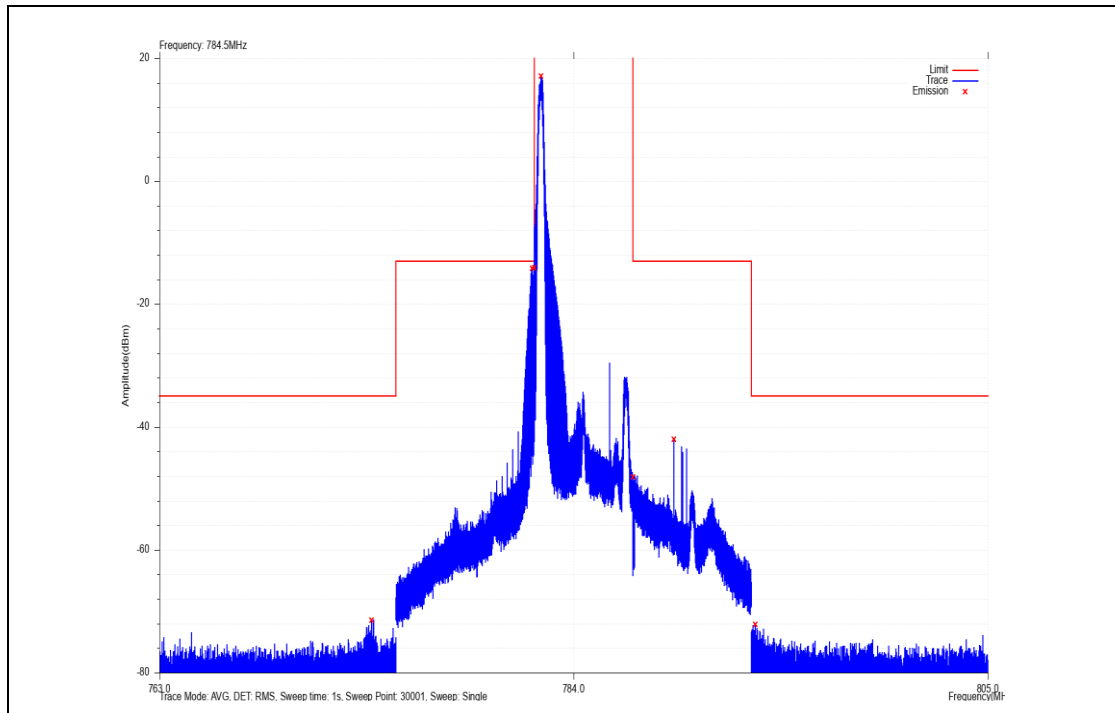
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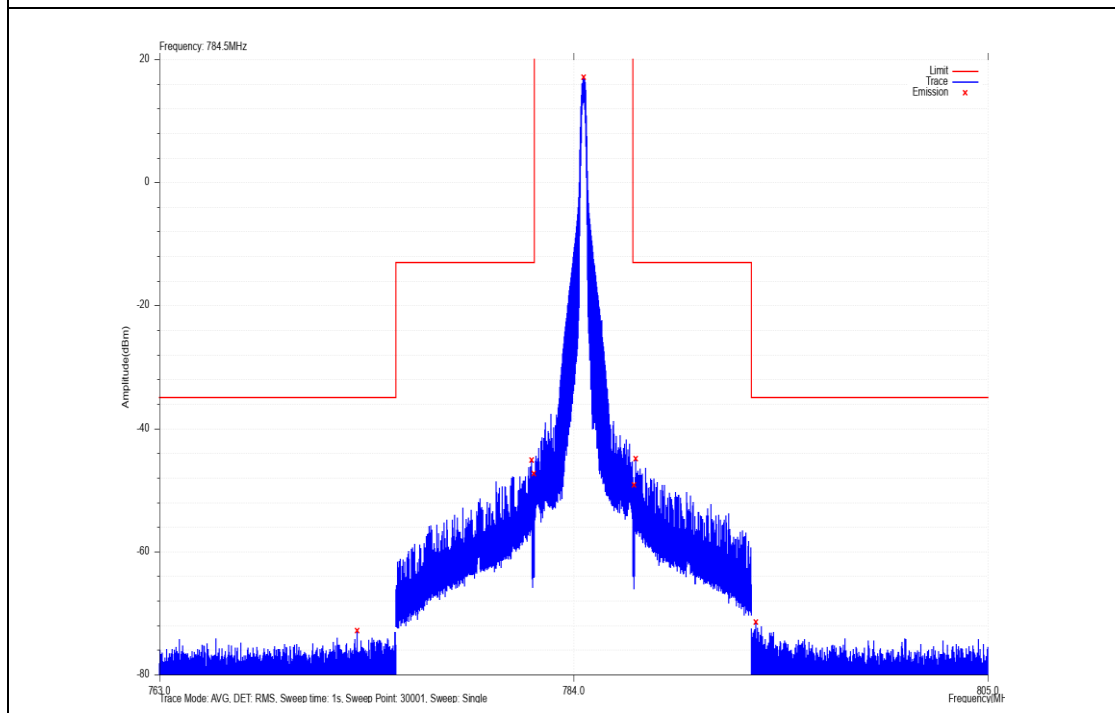
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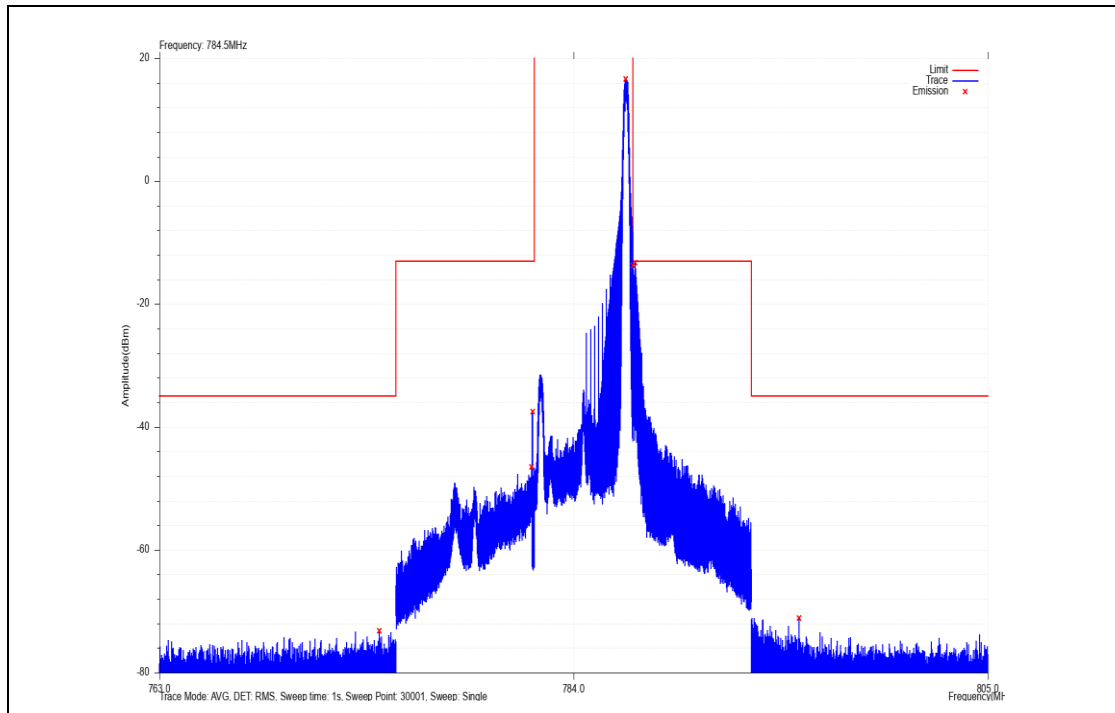




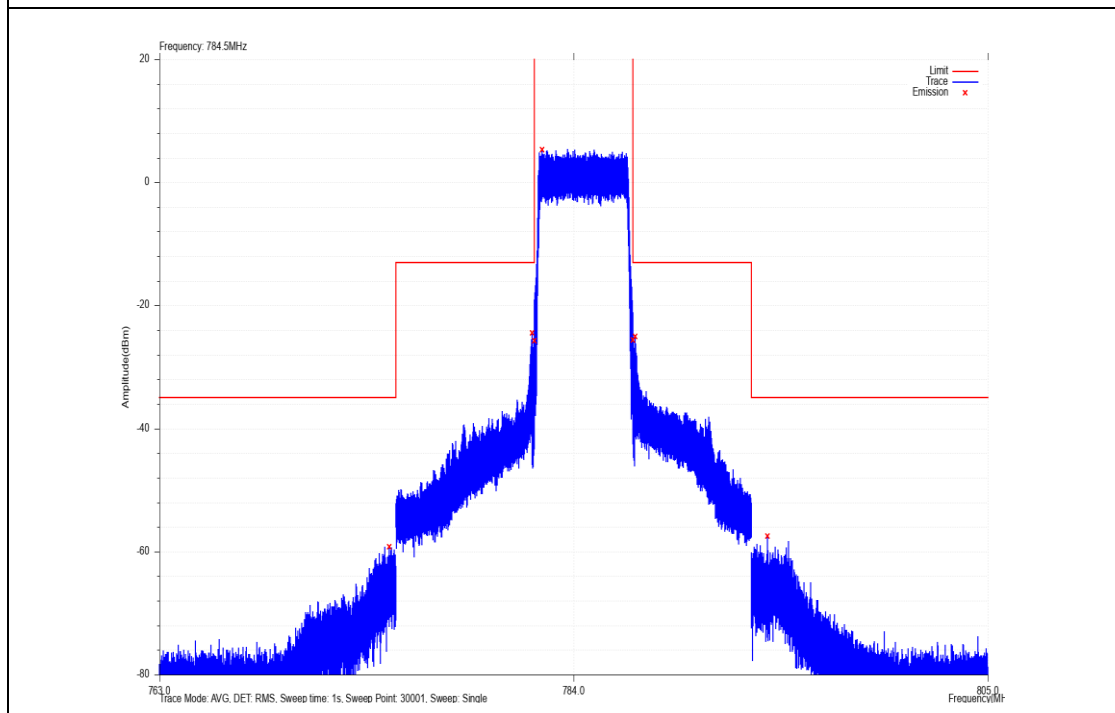
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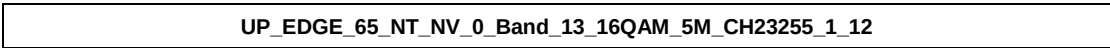
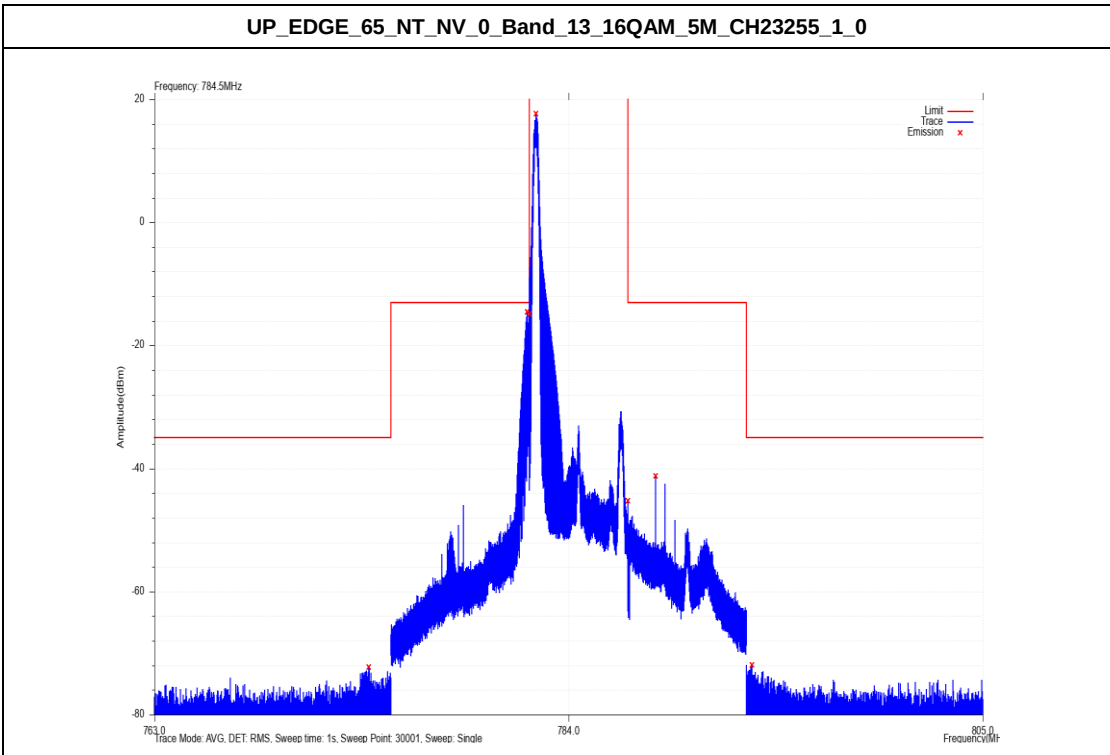
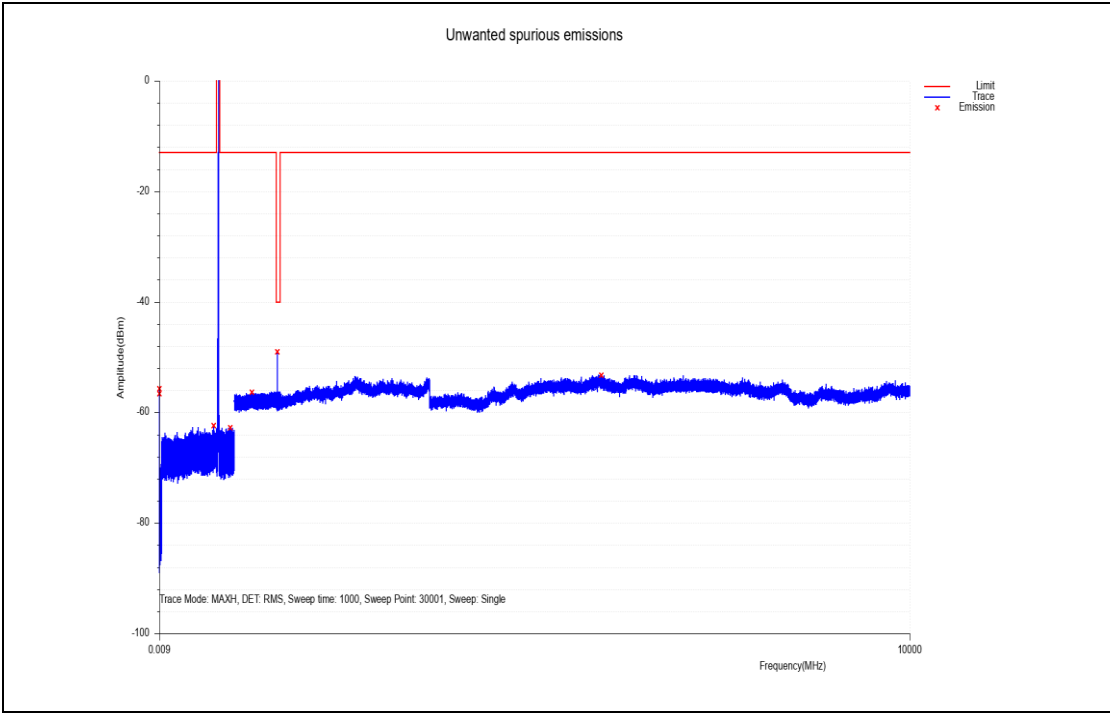
UP_EDGE_65_NT_NV_0_Band_13_QPSK_5M_CH23255_1_24

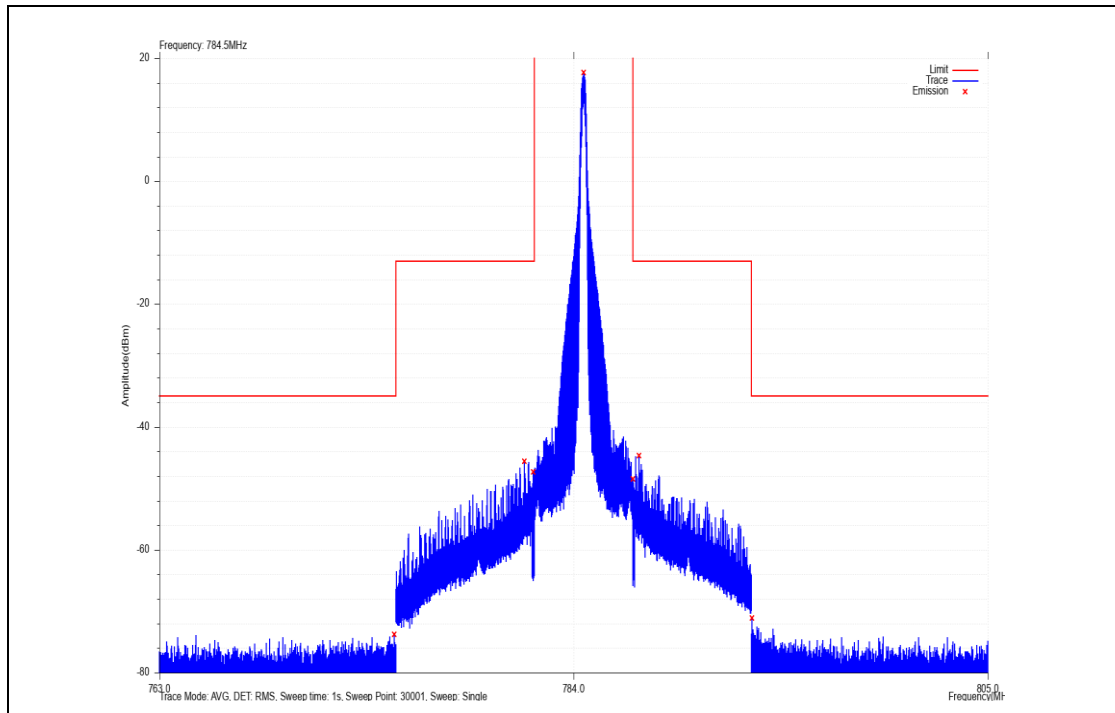


UP_EDGE_65_NT_NV_0_Band_13_QPSK_5M_CH23255_25_0

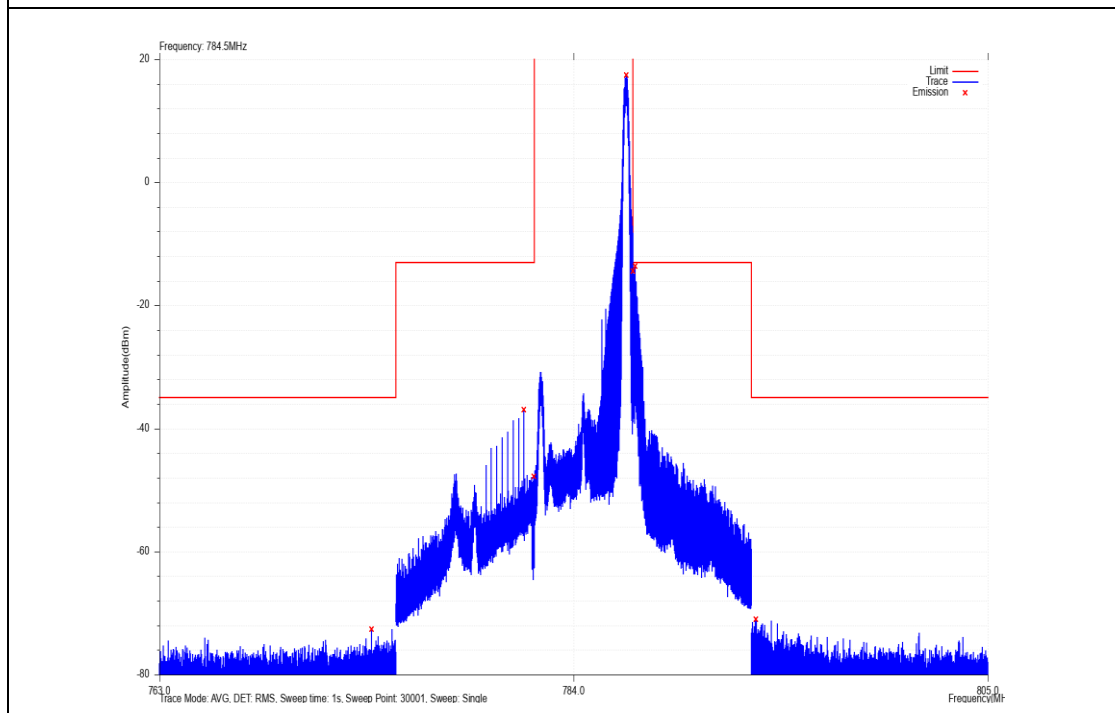


SA_65_NT_NV_0_Band_13_QPSK_5M_CH23255_1_24

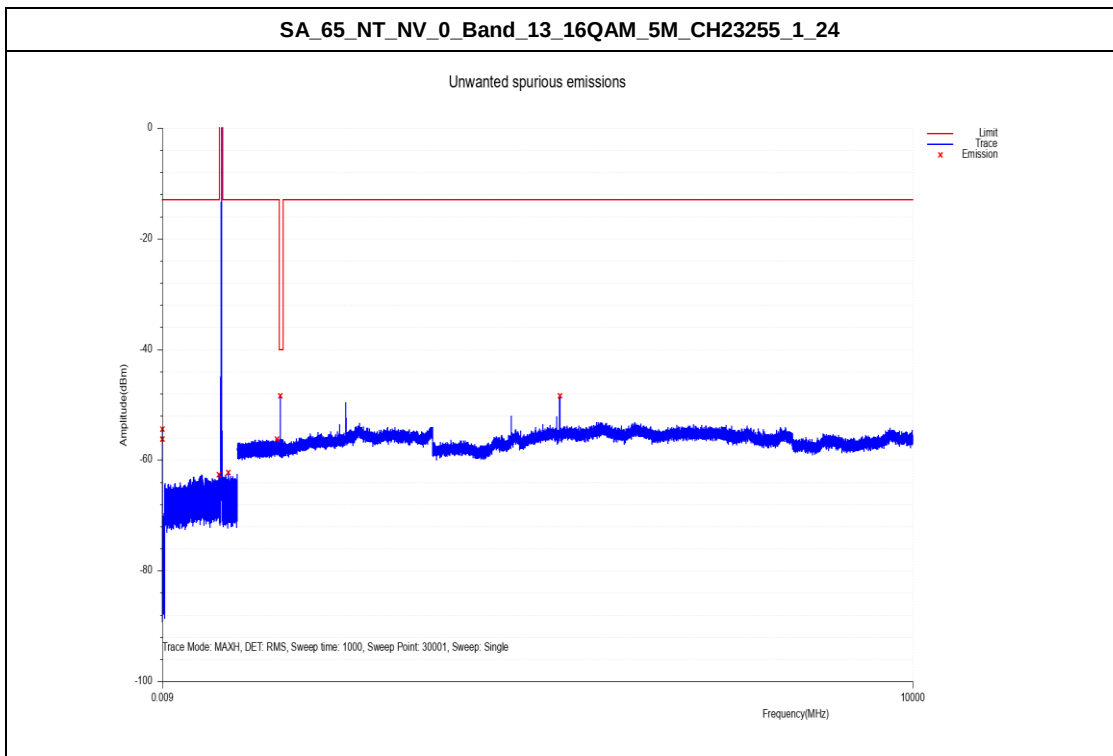
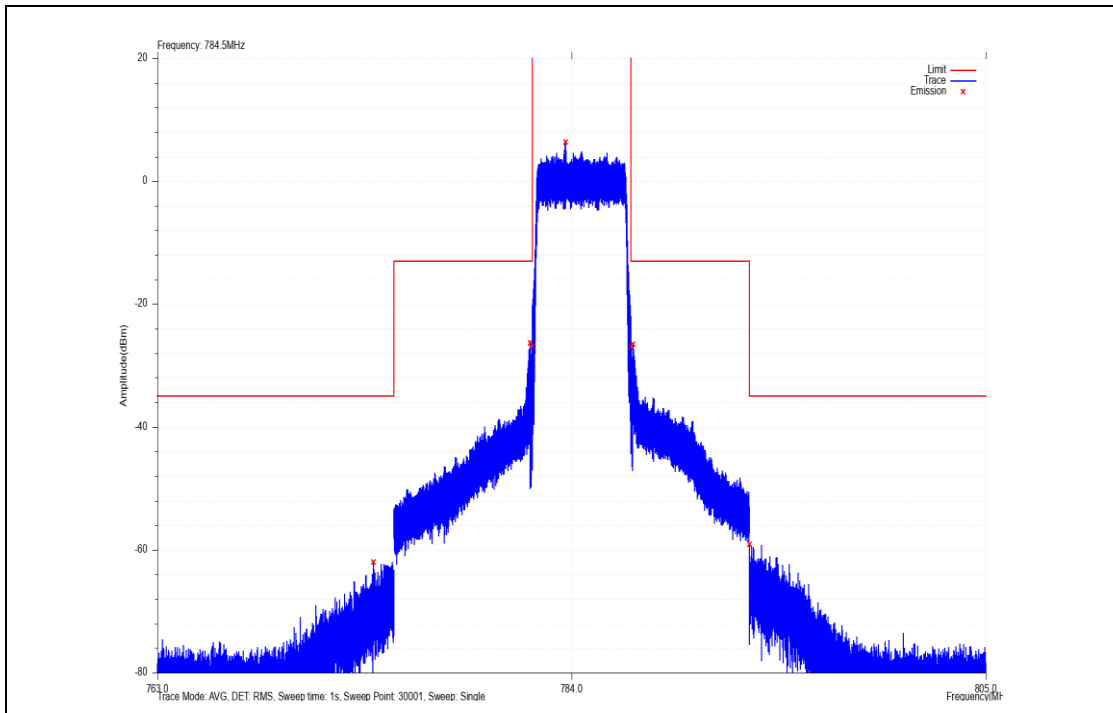




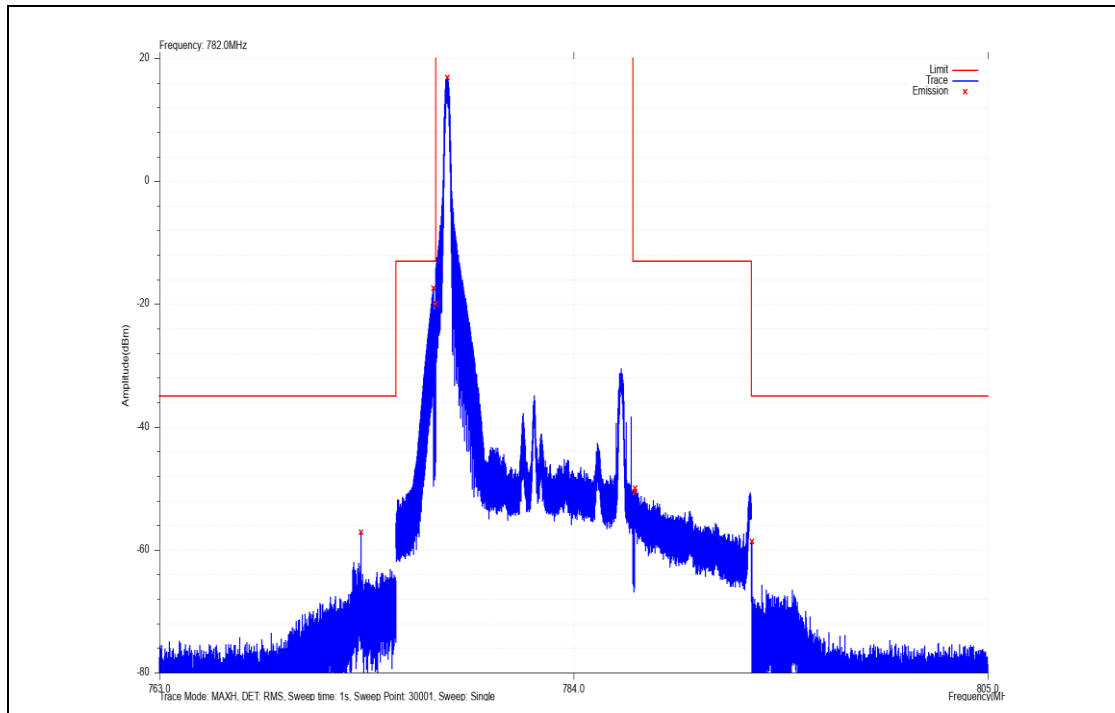
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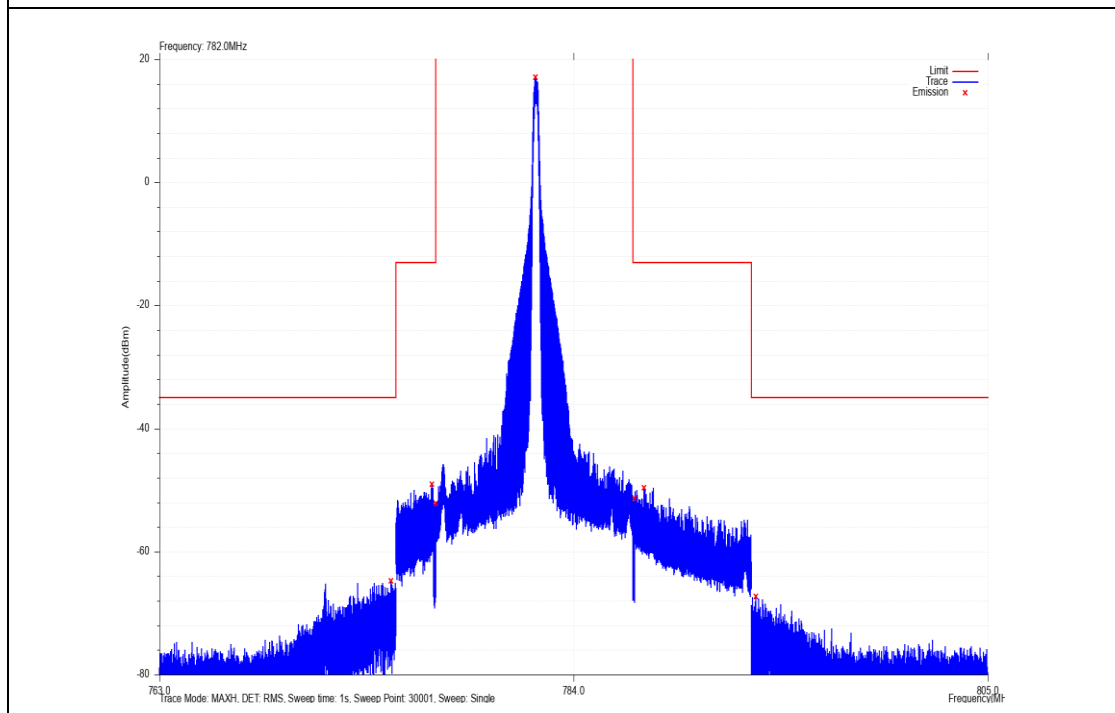
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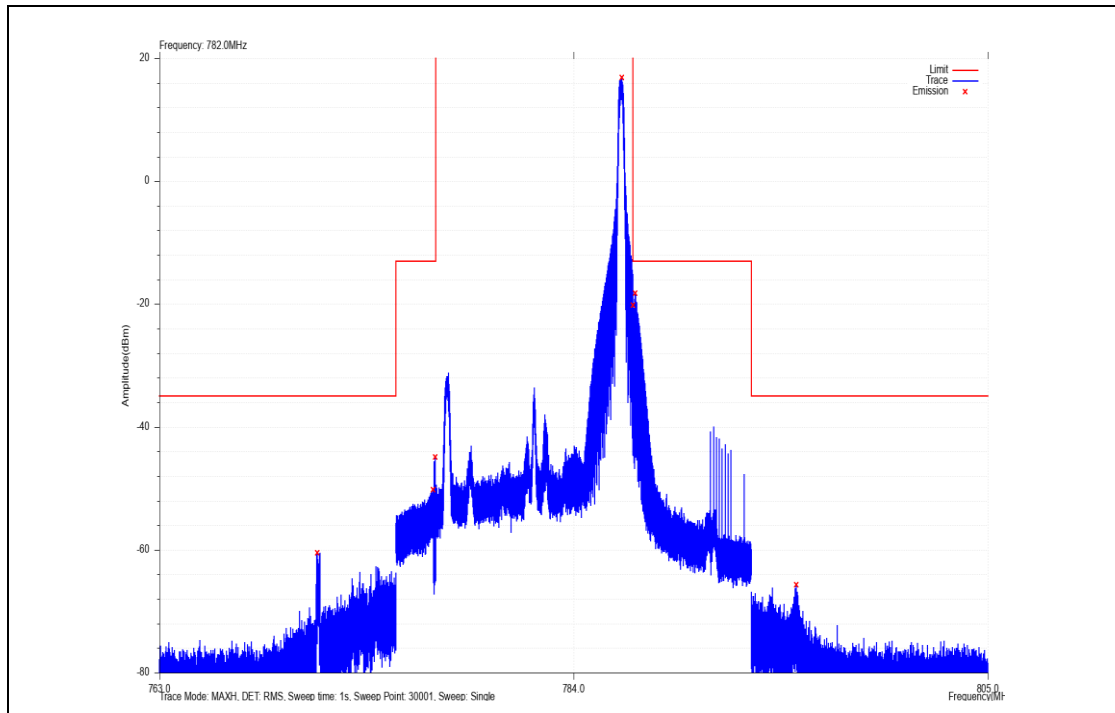
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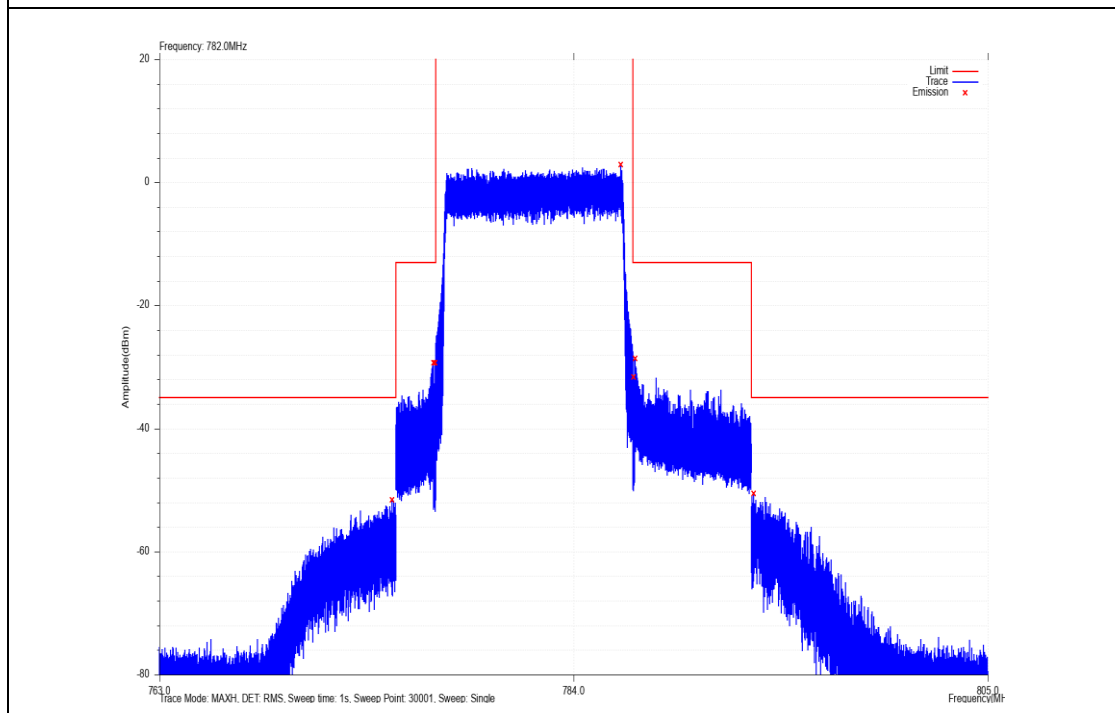
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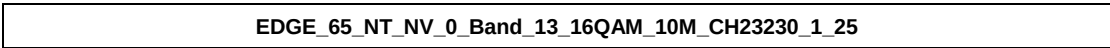
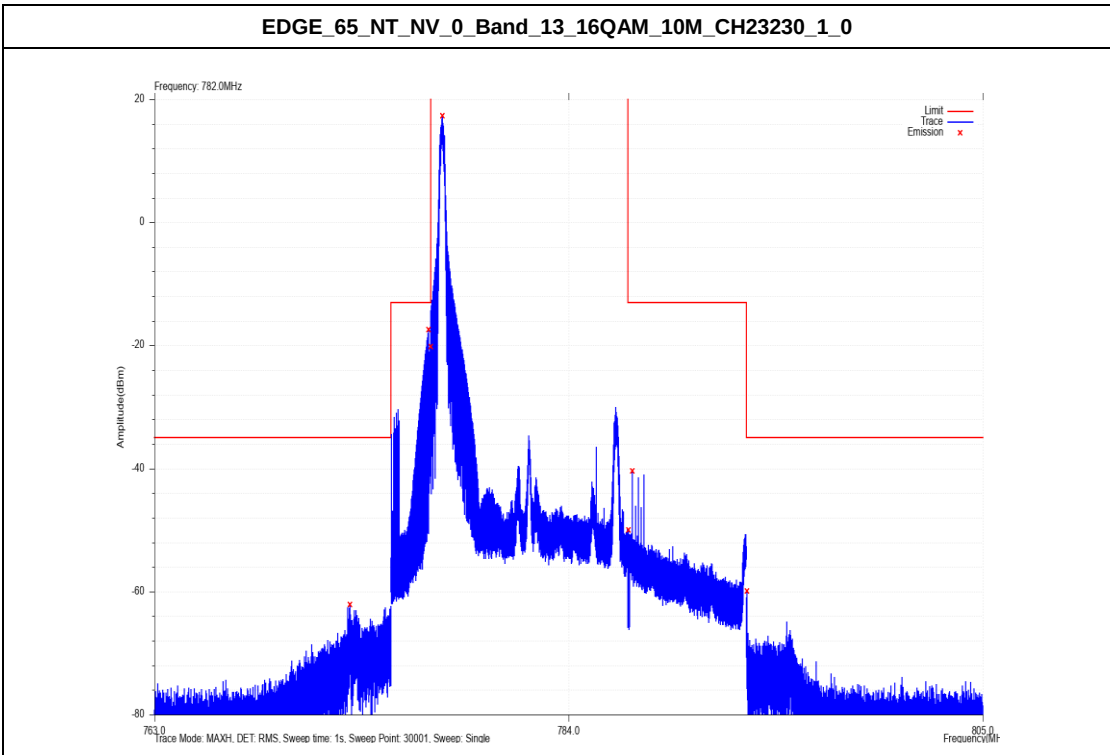
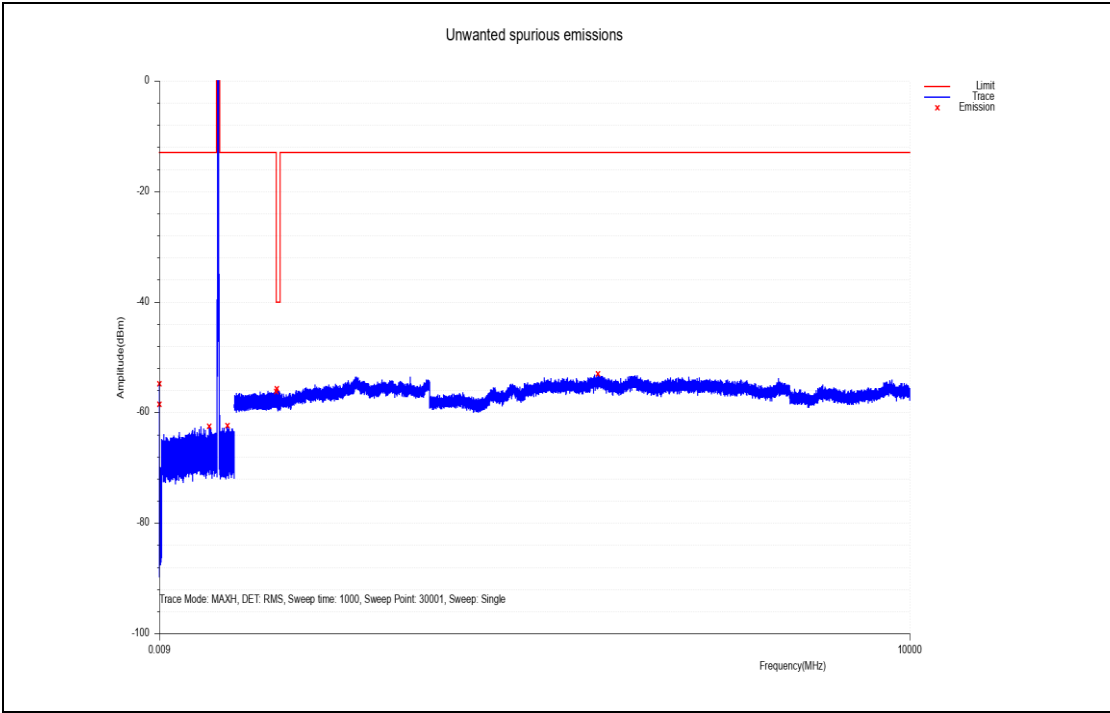
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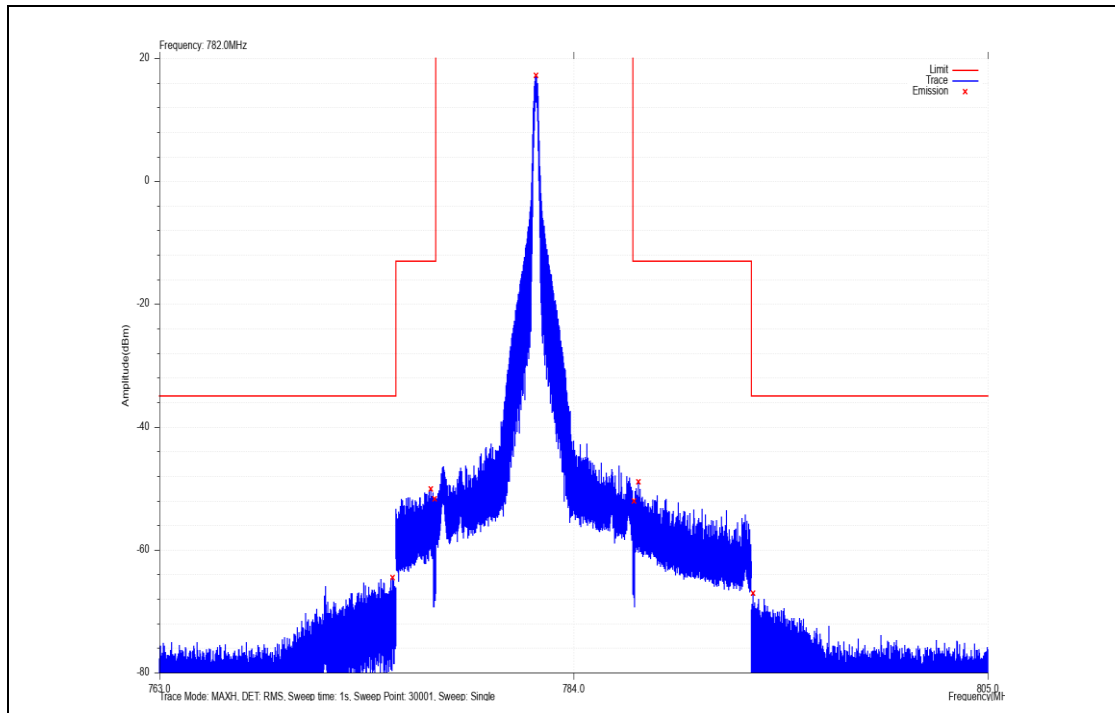


EDGE_65_NT_NV_0_Band_13_QPSK_10M_CH23230_50_0

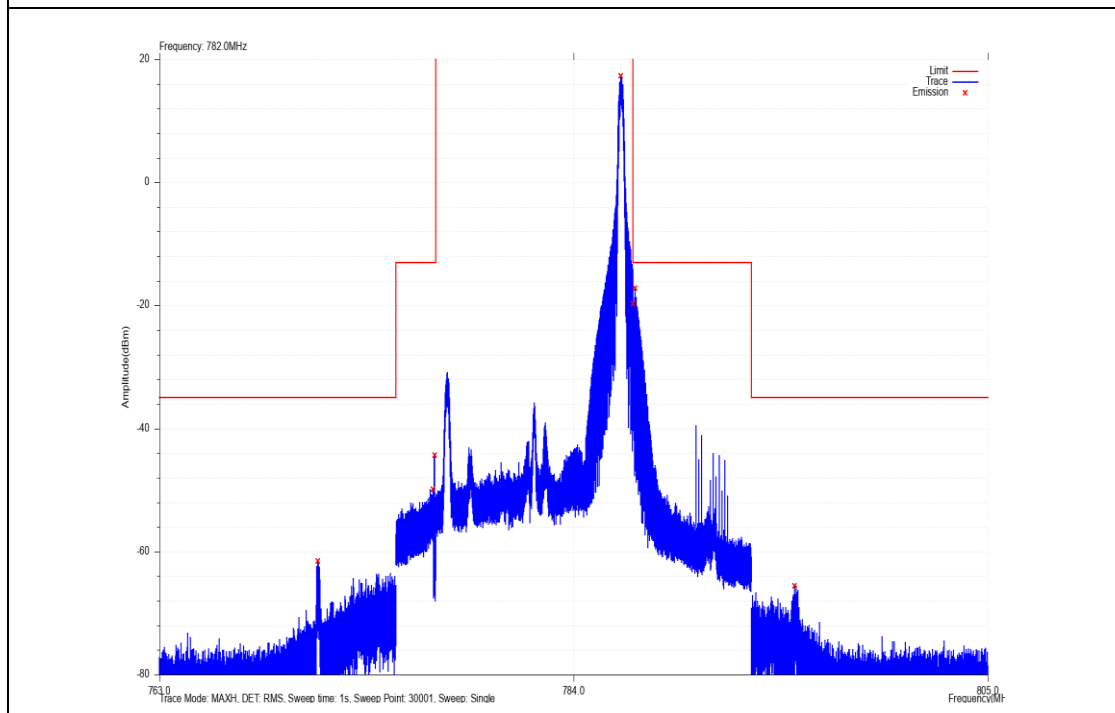


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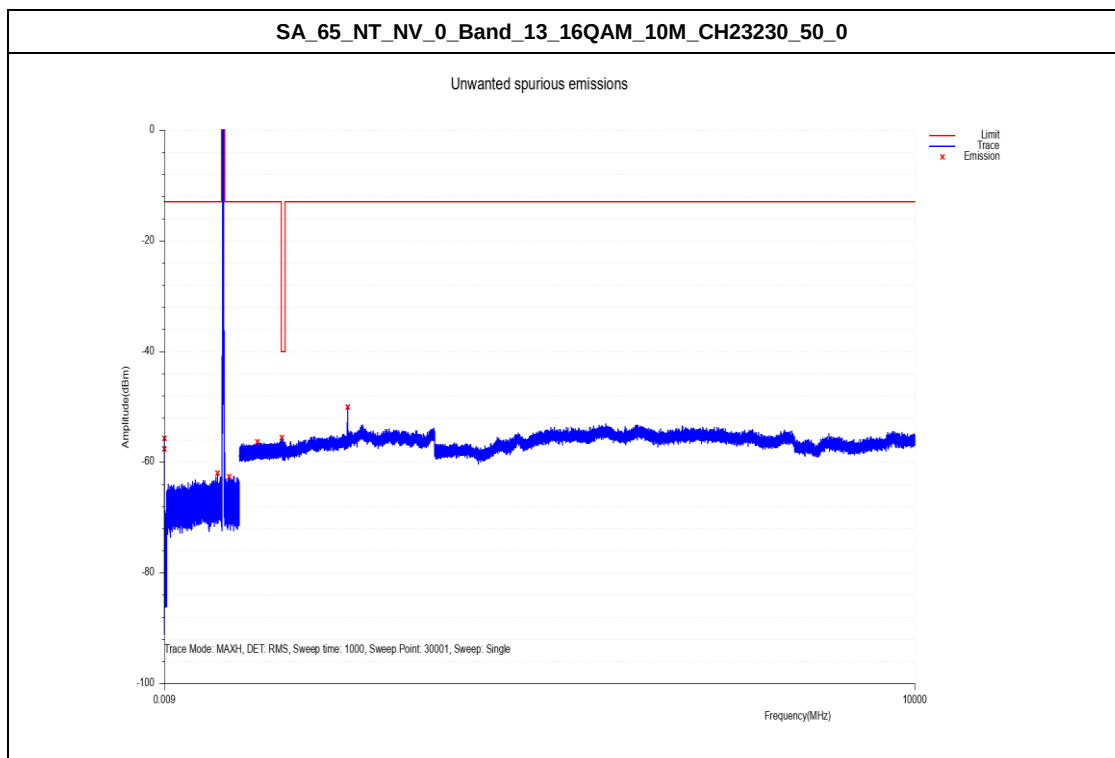
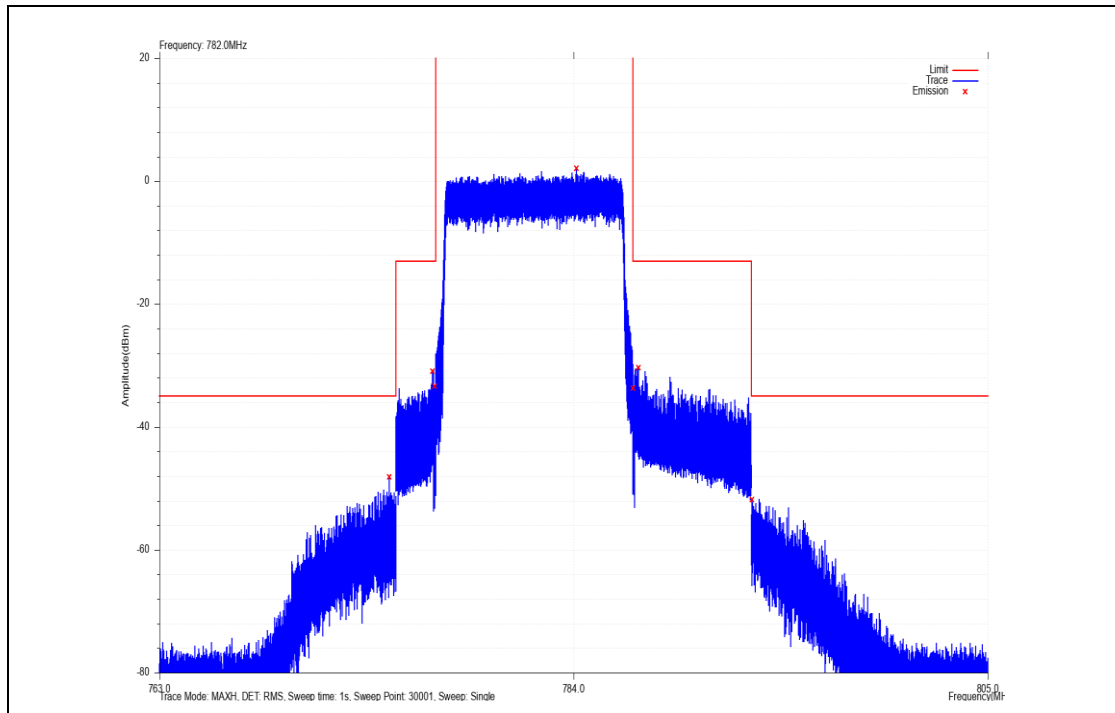




EDGE_65_NT_NV_0_Band_13_16QAM_10M_CH23230_1_49



EDGE_65_NT_NV_0_Band_13_16QAM_10M_CH23230_50_0



5. Frequency Stability

Test Result

Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	-0.0035	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	0.0069	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	0.0048	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	0.0049	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	0.0097	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	0.0081	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	0.0016	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	-0.0015	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	0.0038	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	-0.0036	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-0.0049	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	0.0117	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	0.0005	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	0.0106	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	0.0023	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	0.0055	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	0.0076	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	0.0025	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	0.0101	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	0.0083	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.0019	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	0.0028	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	0.0069	±2.5	PASS

Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	0.0013	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	0.0063	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	0.0096	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	0.0079	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	0.0089	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	0.0143	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	0.0097	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	0.0013	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	0.0065	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-0.0042	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-0.0018	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	0.0110	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	-0.0027	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	0.0087	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-0.0010	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-0.0012	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	0.0084	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	0.0059	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	0.0089	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	0.0012	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	0.0004	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-0.0010	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	0.0025	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-0.0046	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	0.0090	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	0.0064	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	0.0042	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-0.0058	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	0.0035	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	0.0035	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	0.0011	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	0.0001	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.0132	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	0.0091	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.0026	±2.5	PASS
Band13	10MHz	QPSK	23130	50RB#0	NV	-30	0.0076	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-0.0035	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	0.0139	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	0.0069	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	0.0059	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	0.0010	±2.5	PASS