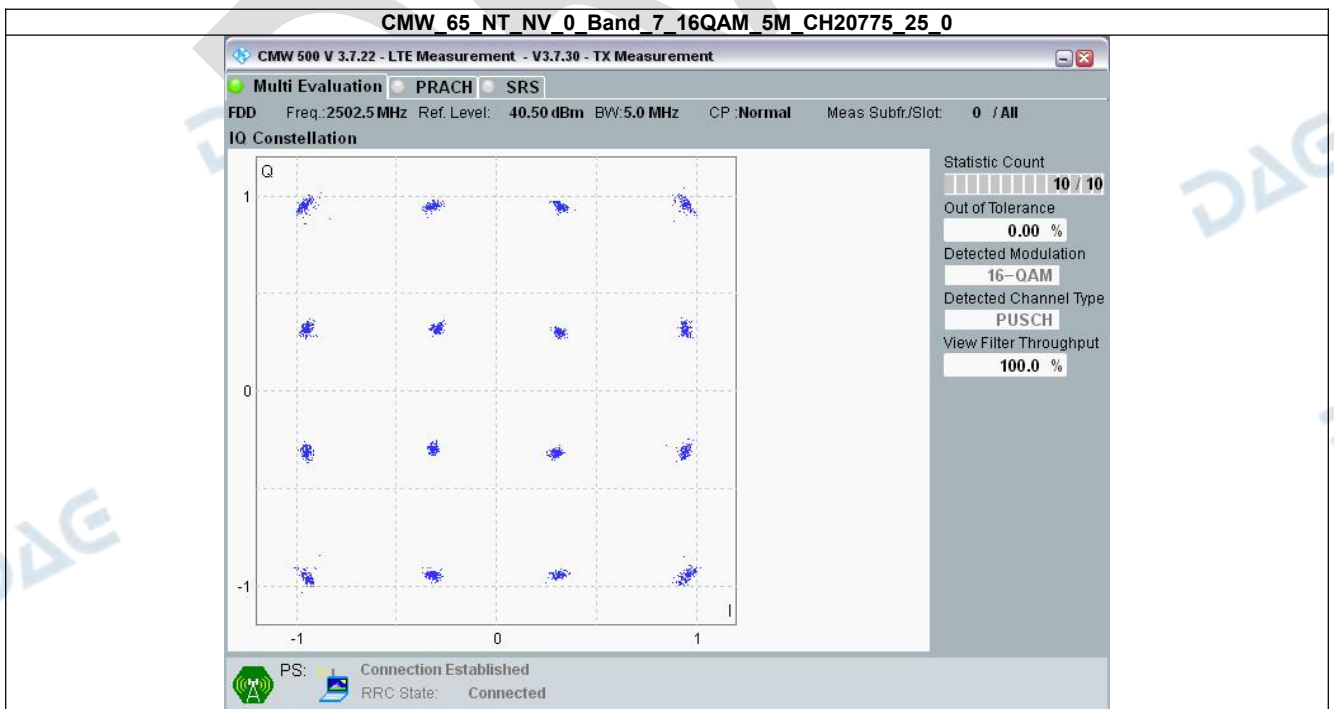
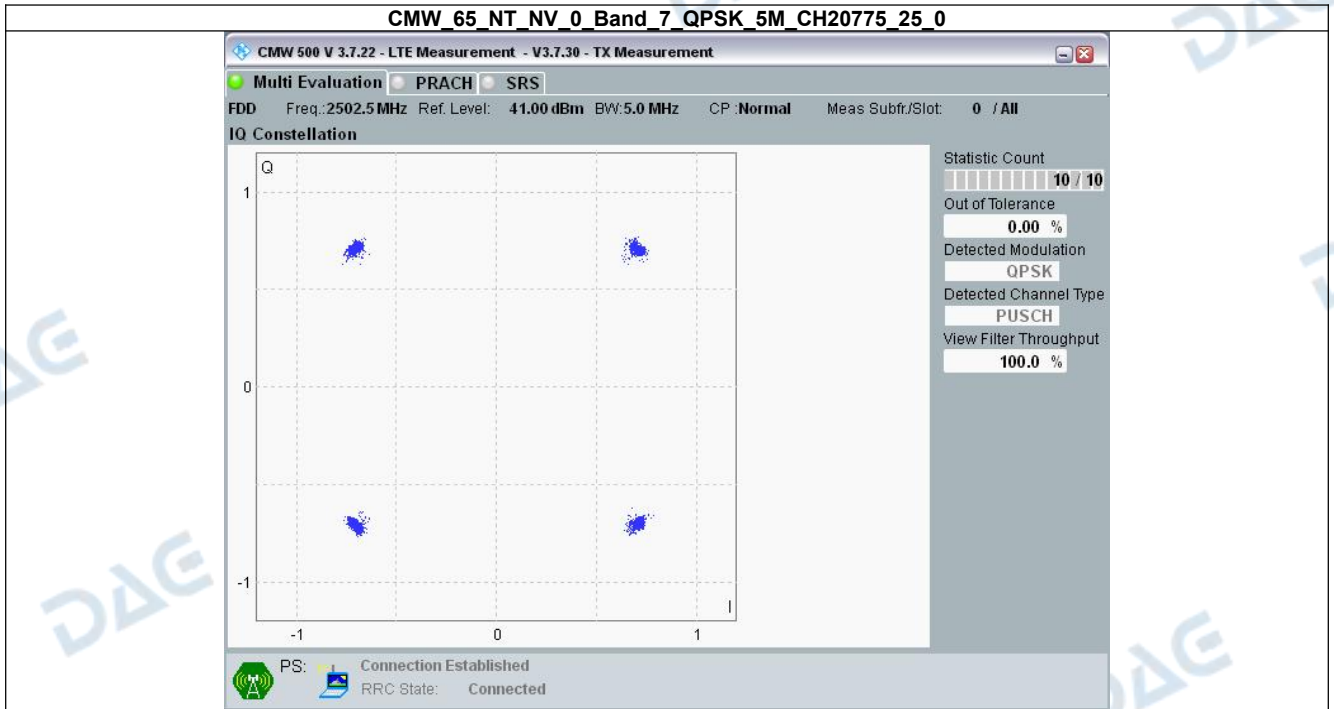


LTE-BAND7

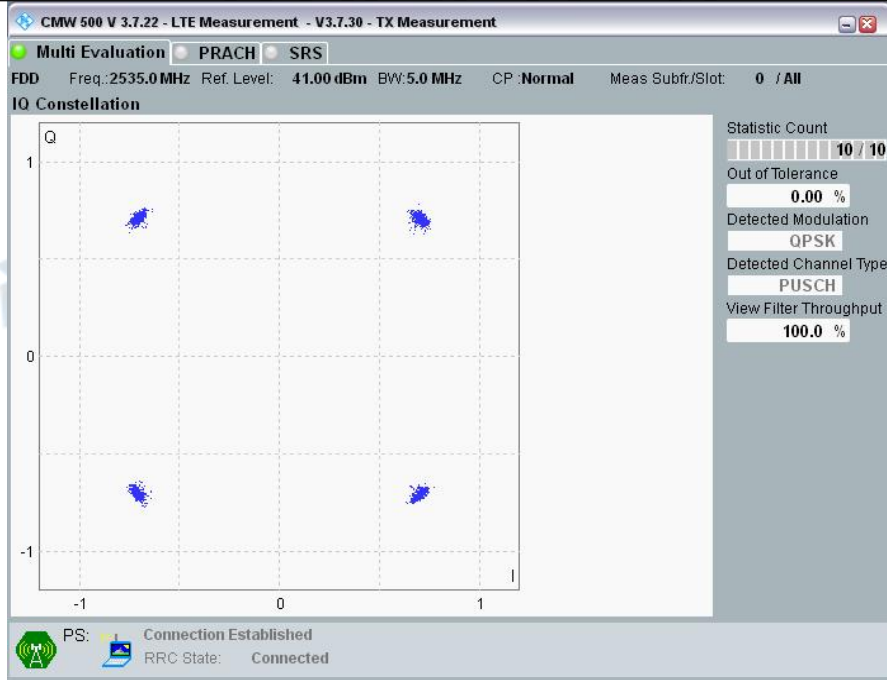
FCC LTE FDD Test Data

1. Modulation Characteristics

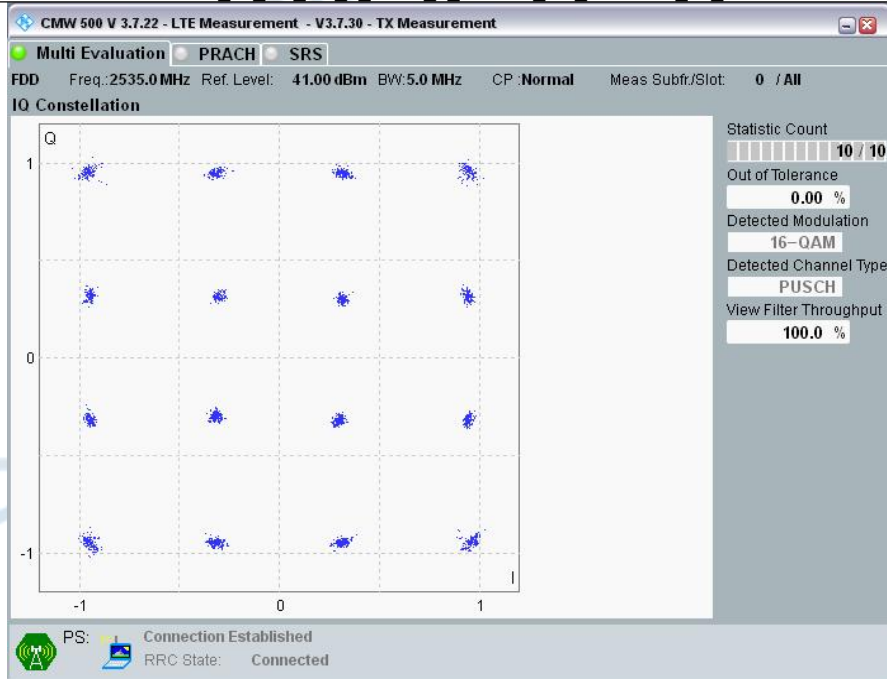
Condition	Band	Modulation	BW(MHz)	Frequency(MHz)	RB_Size	RB_start	Result
NV_NT	Band 7	QPSK	5M	2502.5	25	0	See the photograph
NV_NT	Band 7	16QAM	5M	2502.5	25	0	See the photograph
NV_NT	Band 7	QPSK	5M	2535.0	25	0	See the photograph
NV_NT	Band 7	16QAM	5M	2535.0	25	0	See the photograph
NV_NT	Band 7	QPSK	5M	2567.5	25	0	See the photograph
NV_NT	Band 7	16QAM	5M	2567.5	25	0	See the photograph



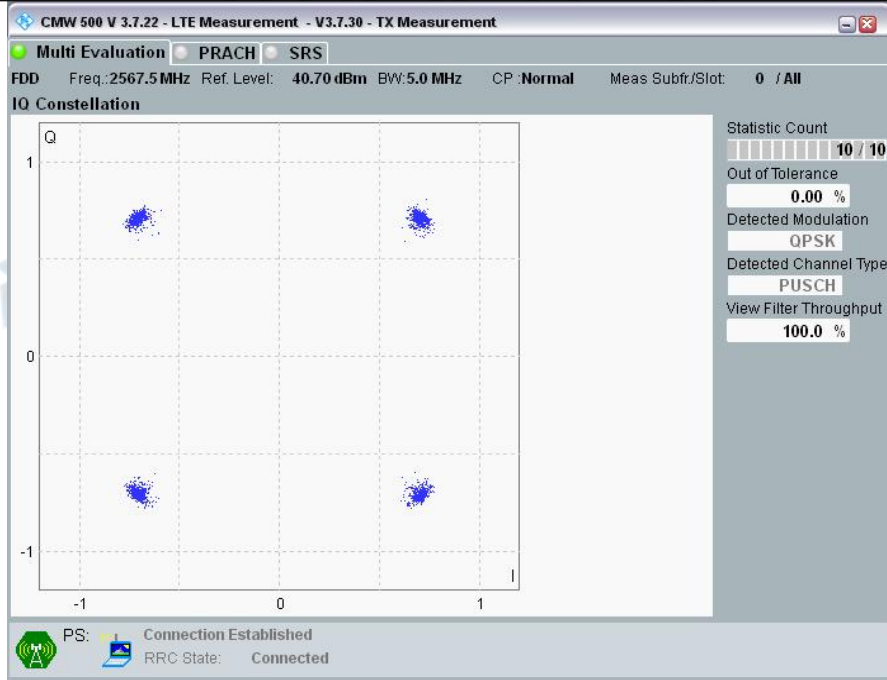
CMW 65 NT_NV_0 Band 7 QPSK 5M CH21100_25_0



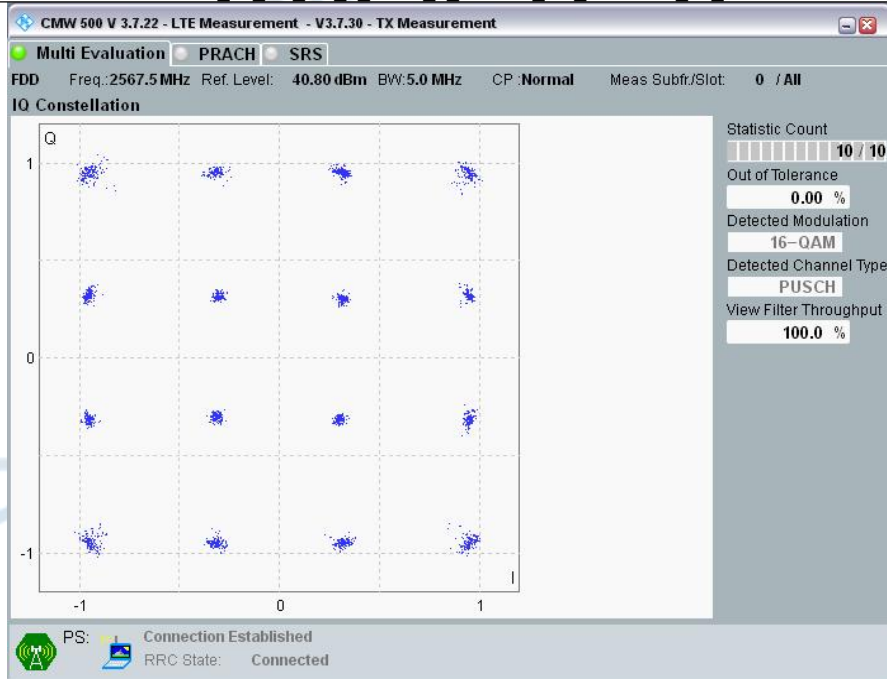
CMW 65 NT_NV_0 Band 7 16QAM_5M_CH21100_25_0



CMW 65 NT NV 0 Band 7 QPSK 5M CH21425 25 0



CMW 65 NT NV 0 Band 7 16QAM 5M CH21425 25 0



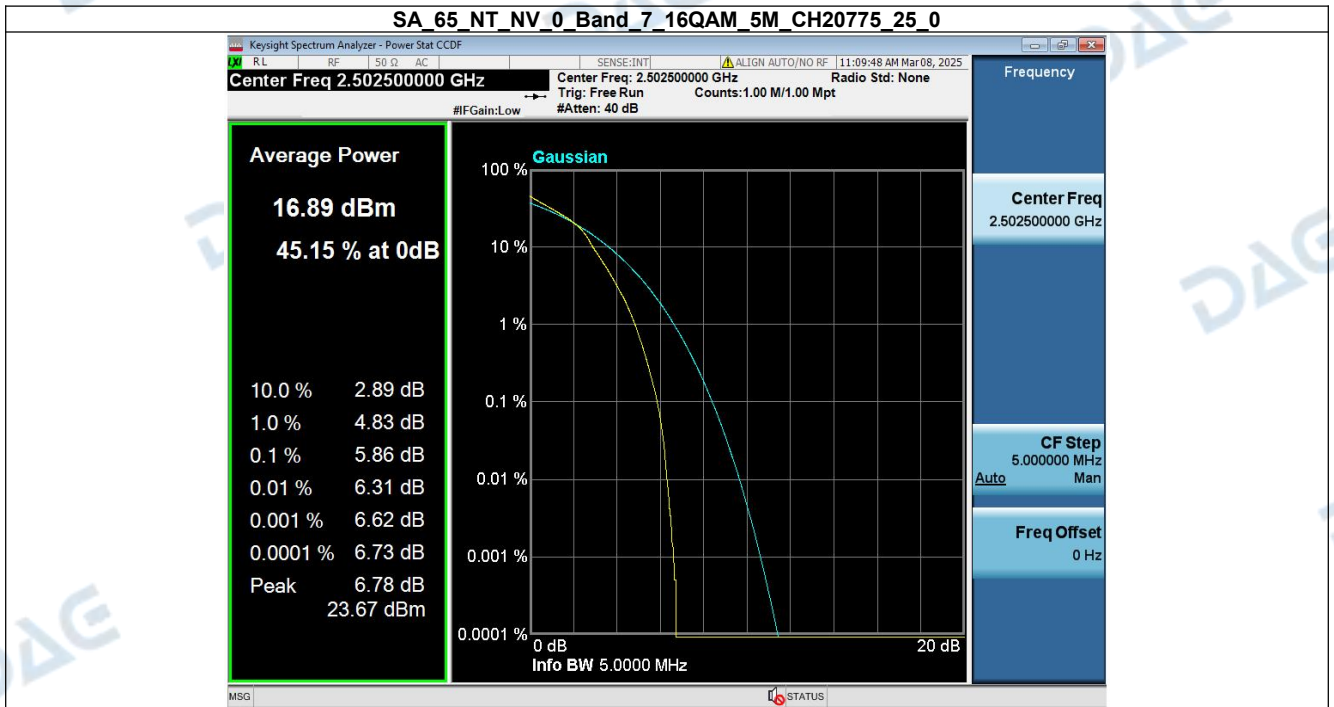
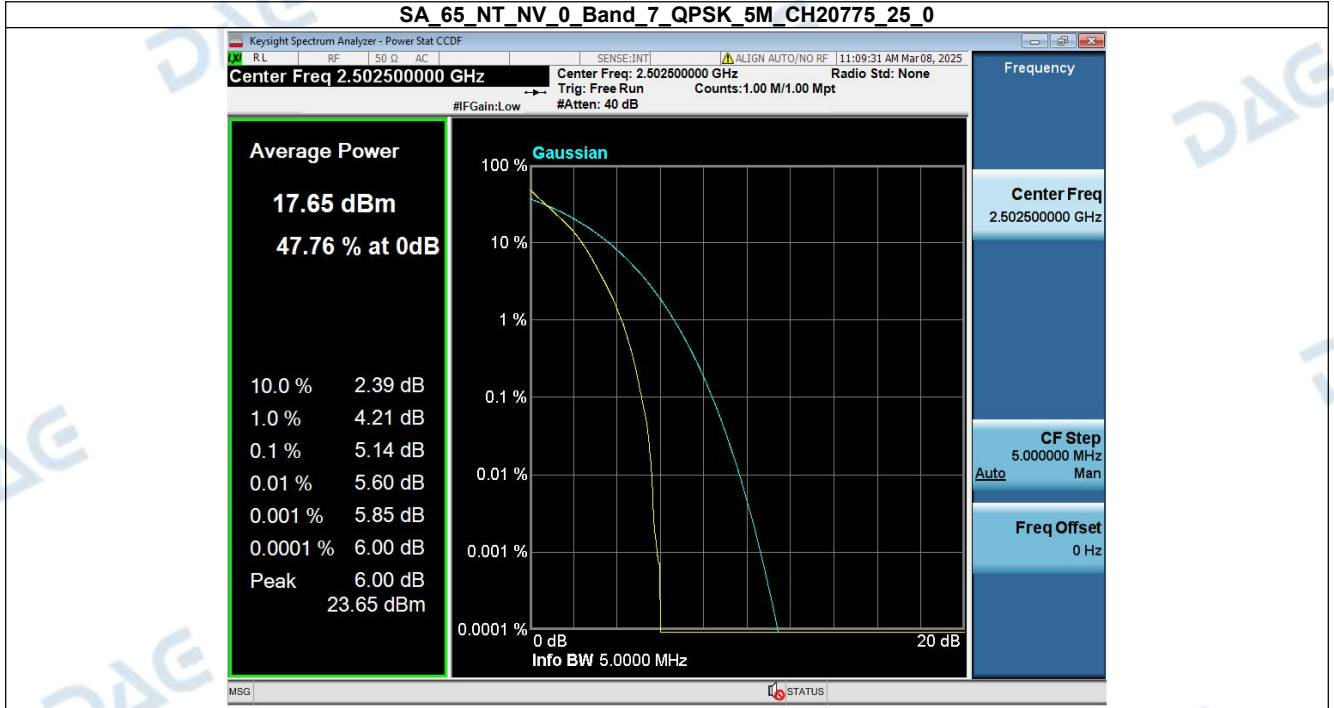
2. Conducted Output Power&&EIRP/ERP

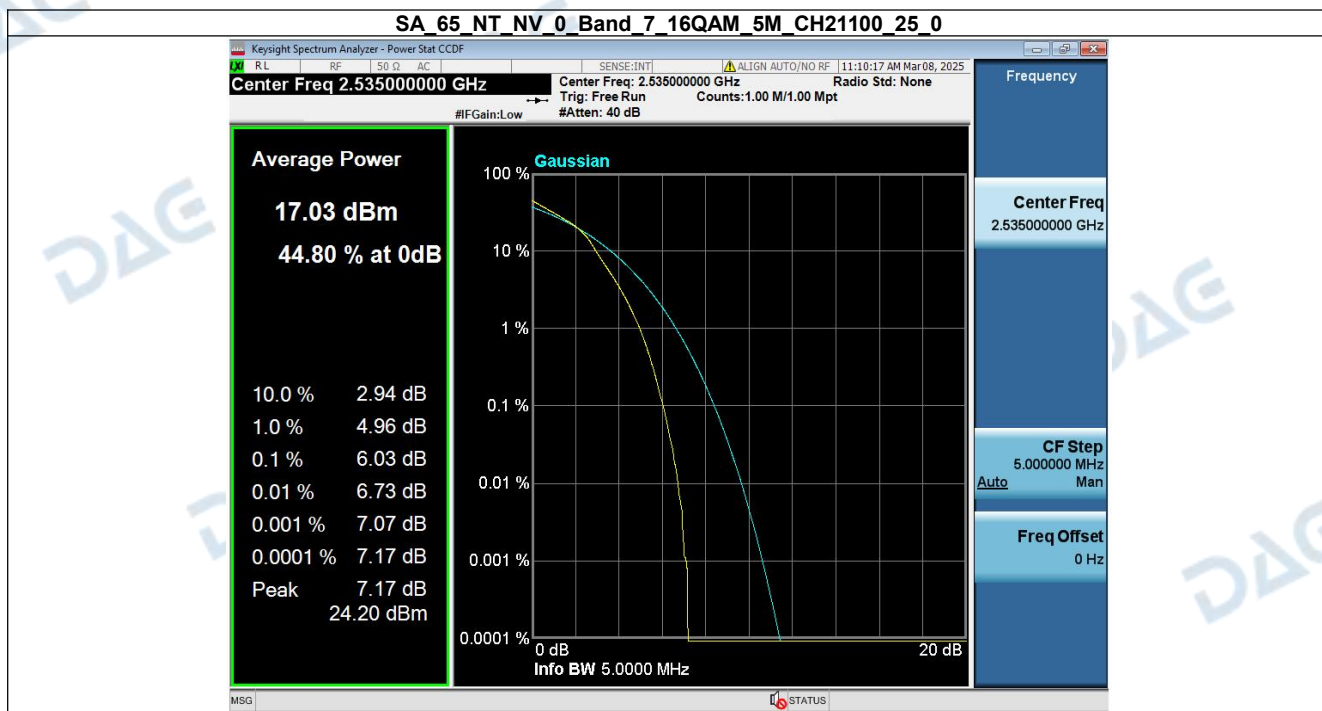
Condition	Band	Modulation	BW (MHz)	Freq. (MHz)	Conducted Power (dBm)	ANT Gain(dBi)	EIRP (dBm)	EIRP (mW)	Limit (mW)	Result
NV_NT	Band 7	QPSK	5M	2502.5	21.37	0.33	21.70	147.91	2000	Pass
NV_NT	Band 7	QPSK	5M	2502.5	21.35	0.33	21.68	147.23	2000	Pass
NV_NT	Band 7	QPSK	5M	2502.5	22.52	0.33	22.85	192.75	2000	Pass
NV_NT	Band 7	QPSK	5M	2502.5	22.47	0.33	22.80	190.55	2000	Pass
NV_NT	Band 7	QPSK	5M	2502.5	22.58	0.33	22.91	195.43	2000	Pass
NV_NT	Band 7	QPSK	5M	2502.5	21.36	0.33	21.69	147.57	2000	Pass
NV_NT	Band 7	16QAM	5M	2502.5	20.4	0.33	20.73	118.30	2000	Pass
NV_NT	Band 7	16QAM	5M	2502.5	20.37	0.33	20.70	117.49	2000	Pass
NV_NT	Band 7	16QAM	5M	2502.5	21.25	0.33	21.58	143.88	2000	Pass
NV_NT	Band 7	16QAM	5M	2502.5	21.39	0.33	21.72	148.59	2000	Pass
NV_NT	Band 7	16QAM	5M	2502.5	21.46	0.33	21.79	151.01	2000	Pass
NV_NT	Band 7	16QAM	5M	2502.5	20.48	0.33	20.81	120.50	2000	Pass
NV_NT	Band 7	QPSK	5M	2535.0	21.37	0.33	21.70	147.91	2000	Pass
NV_NT	Band 7	QPSK	5M	2535.0	21.44	0.33	21.77	150.31	2000	Pass
NV_NT	Band 7	QPSK	5M	2535.0	22.55	0.33	22.88	194.09	2000	Pass
NV_NT	Band 7	QPSK	5M	2535.0	22.57	0.33	22.90	194.98	2000	Pass
NV_NT	Band 7	QPSK	5M	2535.0	22.62	0.33	22.95	197.24	2000	Pass
NV_NT	Band 7	QPSK	5M	2535.0	21.41	0.33	21.74	149.28	2000	Pass
NV_NT	Band 7	16QAM	5M	2535.0	20.6	0.33	20.93	123.88	2000	Pass
NV_NT	Band 7	16QAM	5M	2535.0	20.66	0.33	20.99	125.60	2000	Pass
NV_NT	Band 7	16QAM	5M	2535.0	21.85	0.33	22.18	165.20	2000	Pass
NV_NT	Band 7	16QAM	5M	2535.0	21.88	0.33	22.21	166.34	2000	Pass
NV_NT	Band 7	16QAM	5M	2535.0	21.96	0.33	22.29	169.43	2000	Pass
NV_NT	Band 7	16QAM	5M	2535.0	20.56	0.33	20.89	122.74	2000	Pass
NV_NT	Band 7	QPSK	5M	2567.5	21.56	0.33	21.89	154.53	2000	Pass
NV_NT	Band 7	QPSK	5M	2567.5	21.59	0.33	21.92	155.60	2000	Pass
NV_NT	Band 7	QPSK	5M	2567.5	22.19	0.33	22.52	178.65	2000	Pass
NV_NT	Band 7	QPSK	5M	2567.5	22.5	0.33	22.83	191.87	2000	Pass
NV_NT	Band 7	QPSK	5M	2567.5	22.25	0.33	22.58	181.13	2000	Pass
NV_NT	Band 7	QPSK	5M	2567.5	21.49	0.33	21.82	152.05	2000	Pass
NV_NT	Band 7	16QAM	5M	2567.5	20.7	0.33	21.03	126.77	2000	Pass
NV_NT	Band 7	16QAM	5M	2567.5	20.72	0.33	21.05	127.35	2000	Pass
NV_NT	Band 7	16QAM	5M	2567.5	21.98	0.33	22.31	170.22	2000	Pass
NV_NT	Band 7	16QAM	5M	2567.5	22.02	0.33	22.35	171.79	2000	Pass
NV_NT	Band 7	16QAM	5M	2567.5	22.07	0.33	22.40	173.78	2000	Pass
NV_NT	Band 7	16QAM	5M	2567.5	20.71	0.33	21.04	127.06	2000	Pass

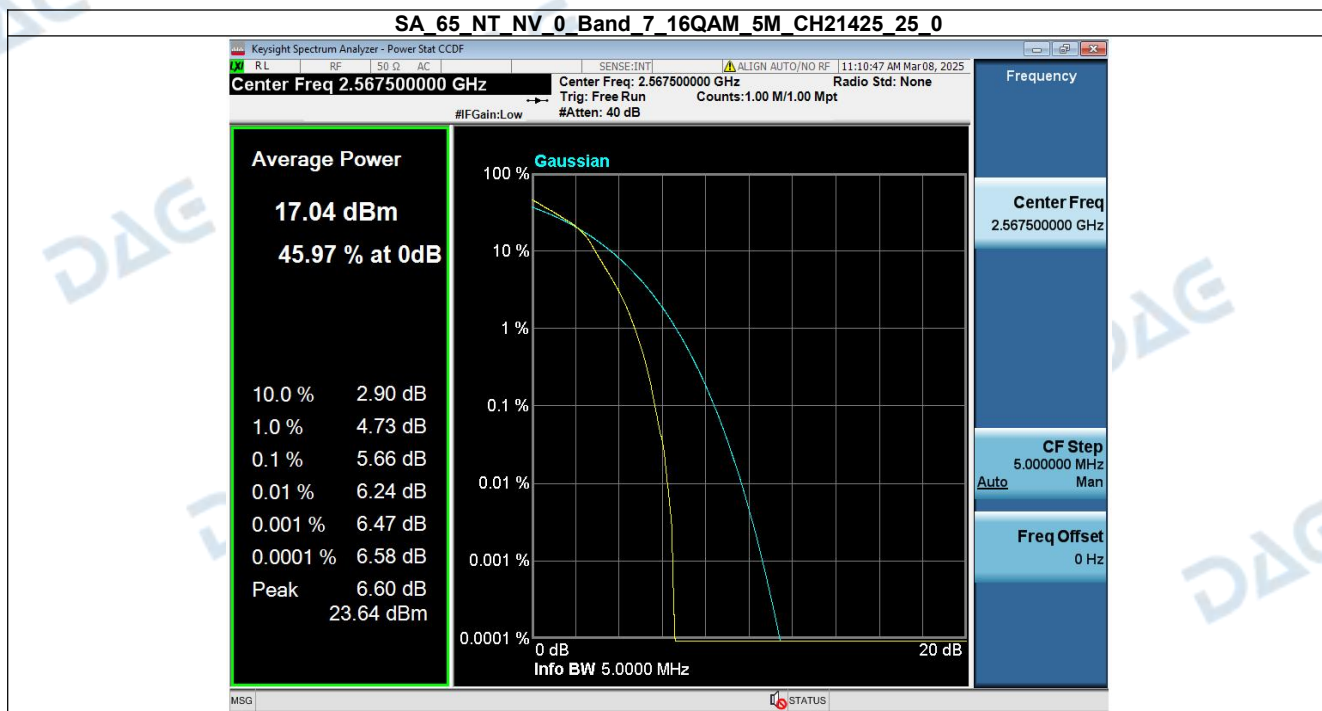
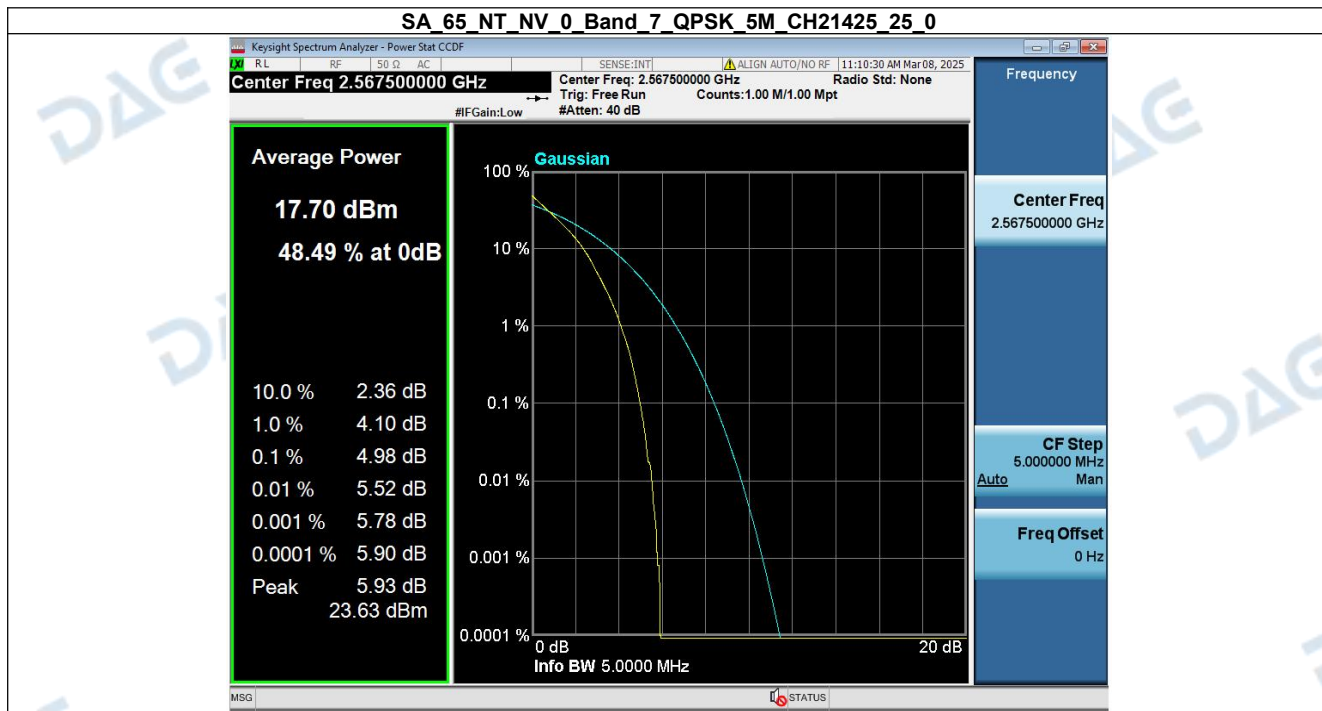
EIRP = Conducted Power + ANT Gain

3. Peak to Average Ratio

Condition	Band	Modulation	BW(MHz)	Frequency(MHz)	RB_Size	RB_start	Peak to AVG Ratio-0.1%(dB)	Limit(dB)	Result
NV_NT	Band 7	QPSK	5M	2502.5	25	0	5.14	13.00	Pass
NV_NT	Band 7	16QAM	5M	2502.5	25	0	5.86	13.00	Pass
NV_NT	Band 7	QPSK	5M	2535.0	25	0	5.28	13.00	Pass
NV_NT	Band 7	16QAM	5M	2535.0	25	0	6.03	13.00	Pass
NV_NT	Band 7	QPSK	5M	2567.5	25	0	4.98	13.00	Pass
NV_NT	Band 7	16QAM	5M	2567.5	25	0	5.66	13.00	Pass

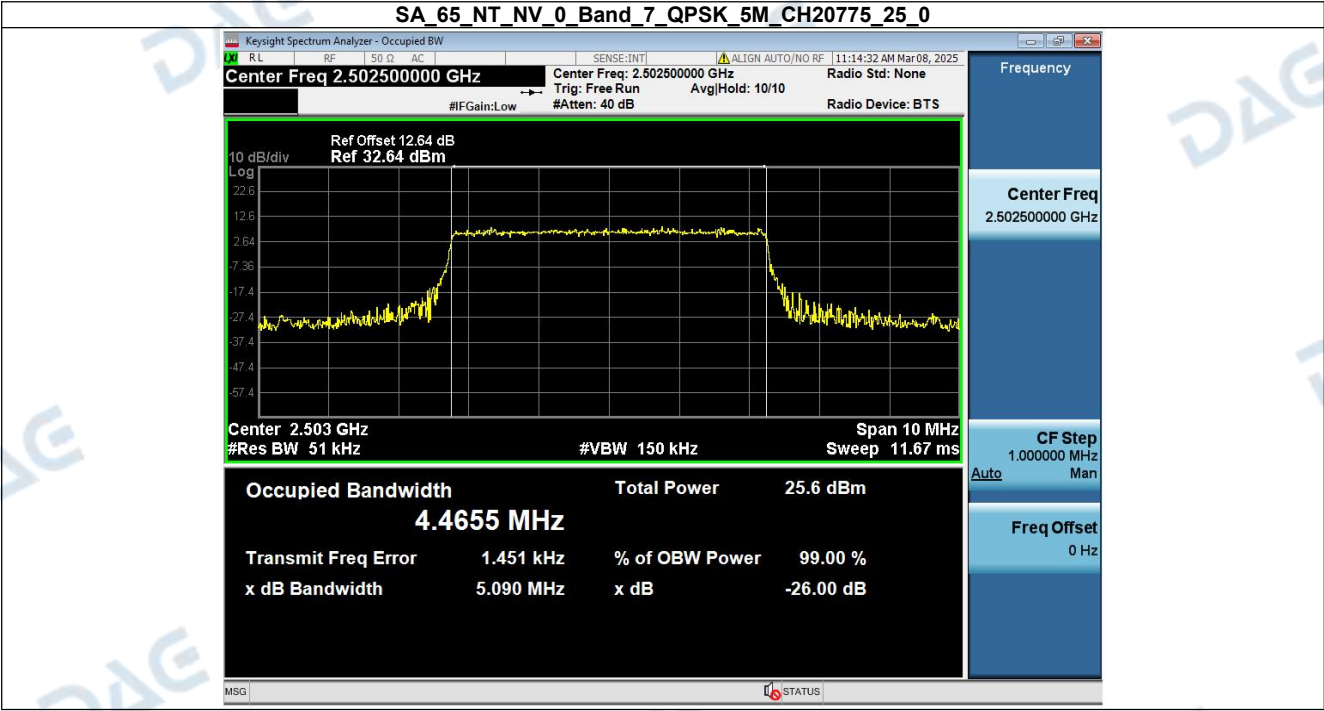


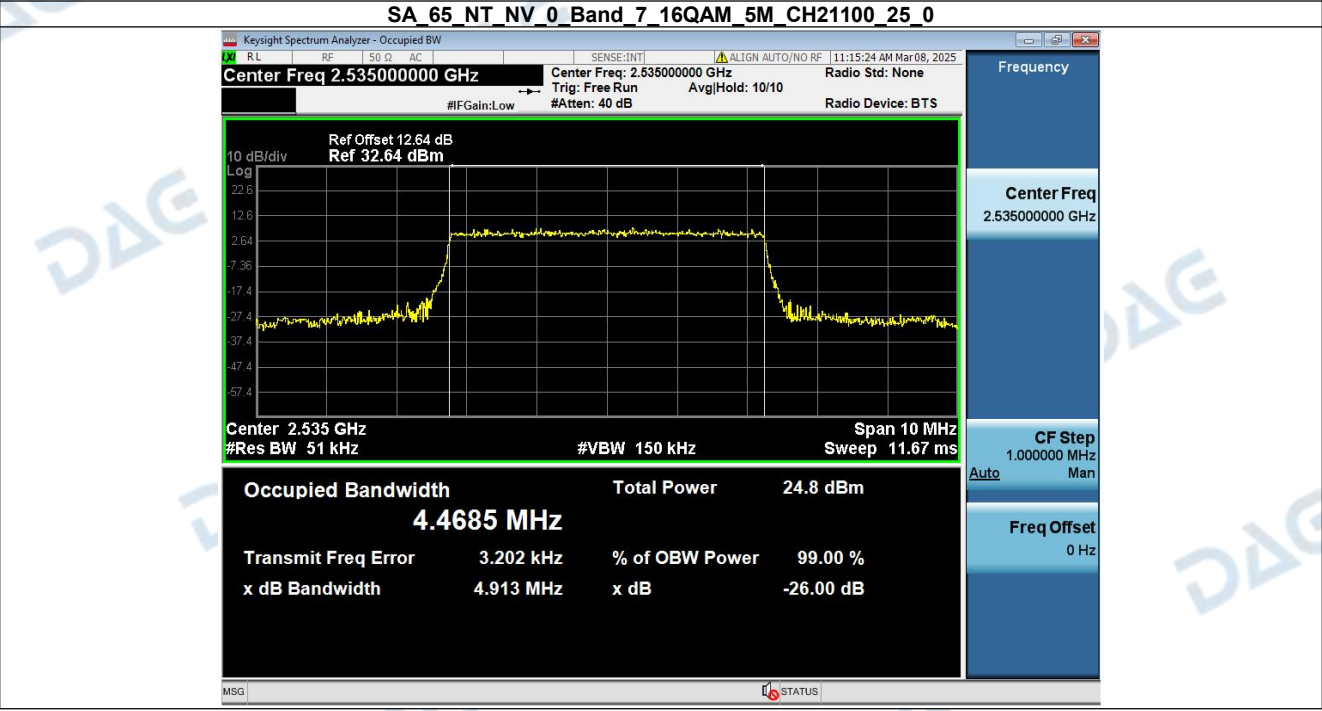
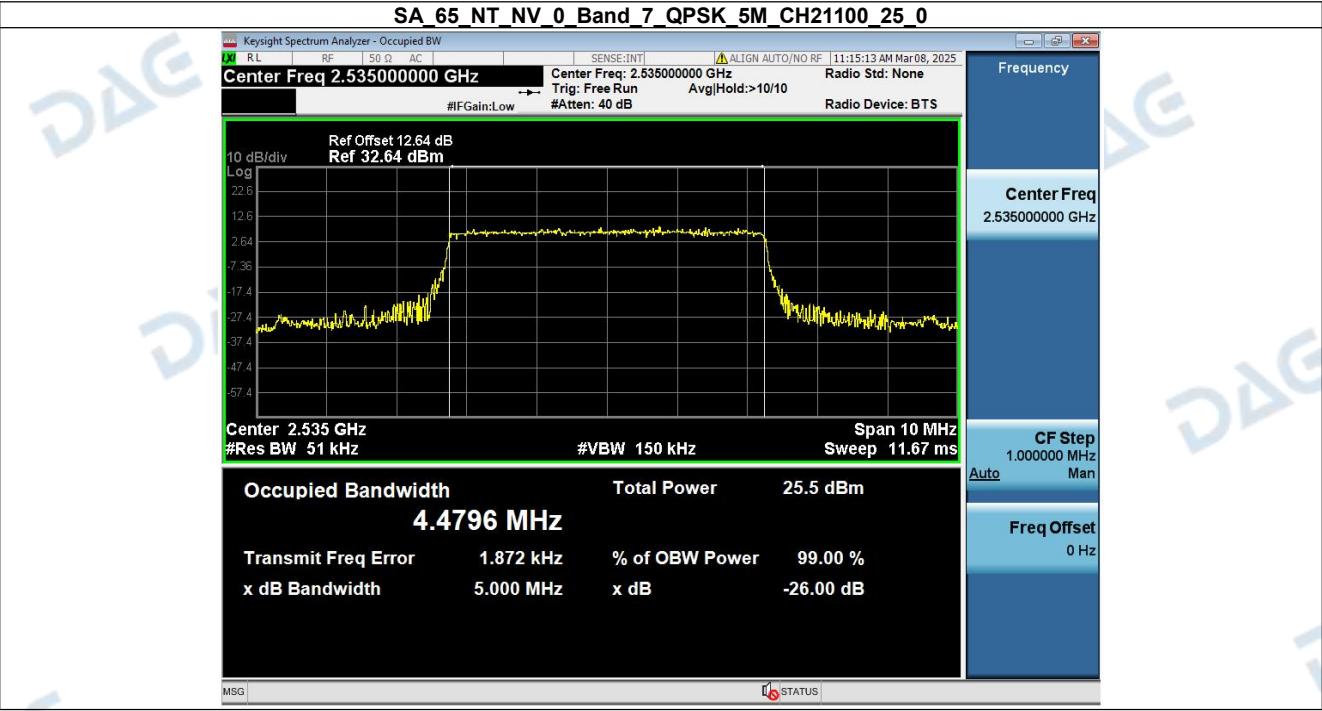


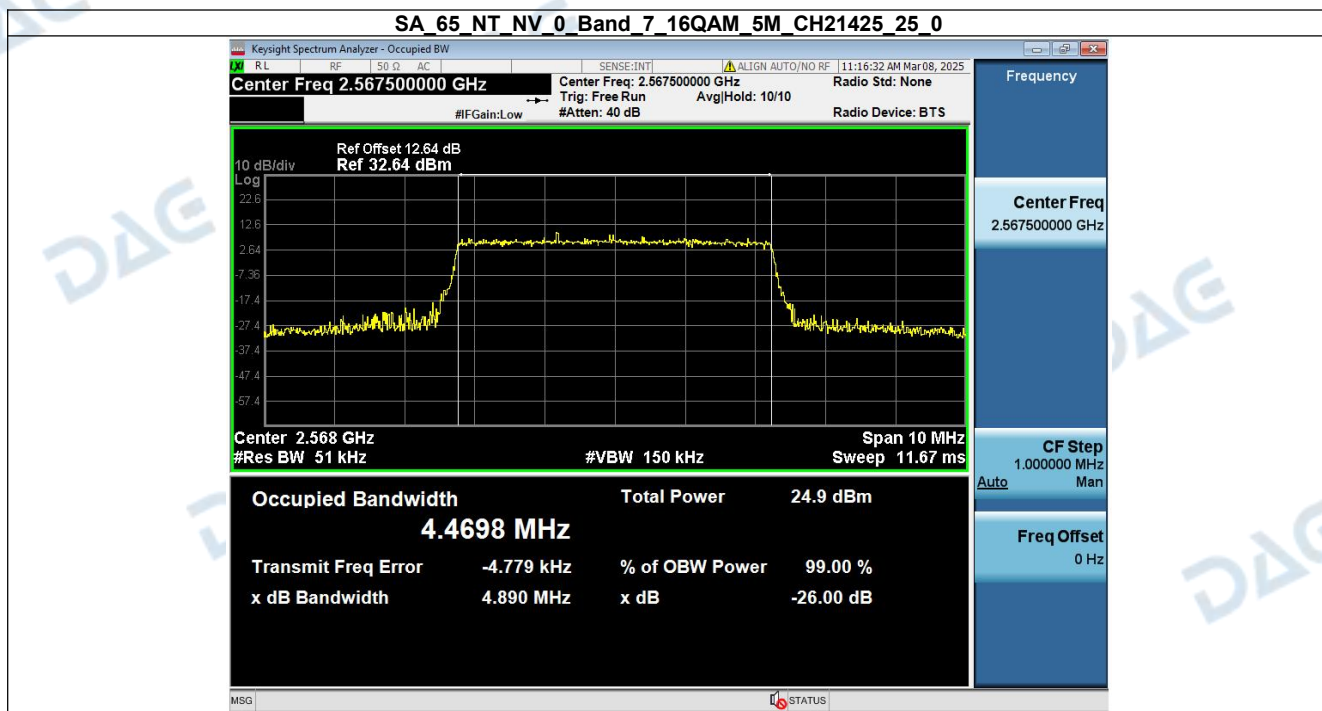
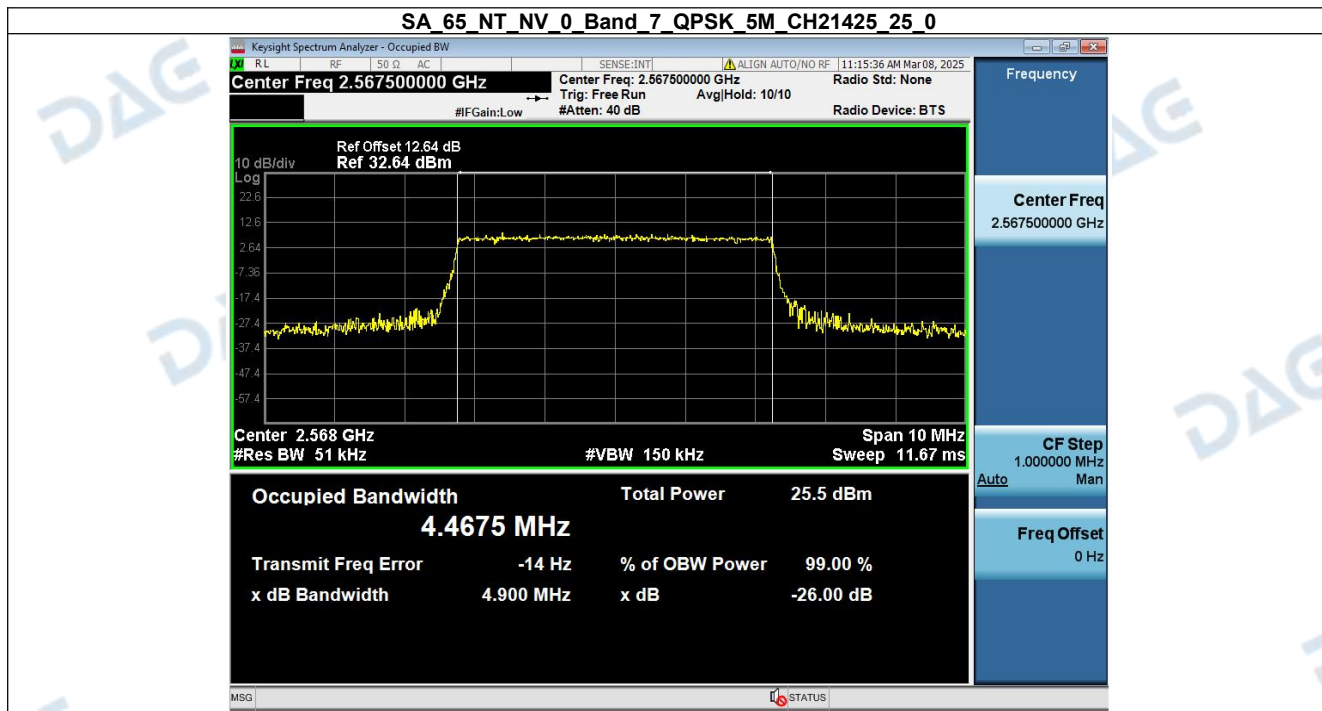


4. Occupied Bandwidth

Condition	Band	Modulation	BW(MHz)	Frequency(MHz)	RB_Size	RB_start	OBW(MHz)	26EBW(MHz)
NV_NT	Band 7	QPSK	5M	2502.5	25	0	4.4655	5.0899
NV_NT	Band 7	16QAM	5M	2502.5	25	0	4.4743	4.9300
NV_NT	Band 7	QPSK	5M	2535.0	25	0	4.4796	4.9999
NV_NT	Band 7	16QAM	5M	2535.0	25	0	4.4685	4.9132
NV_NT	Band 7	QPSK	5M	2567.5	25	0	4.4675	4.8997
NV_NT	Band 7	16QAM	5M	2567.5	25	0	4.4698	4.8903

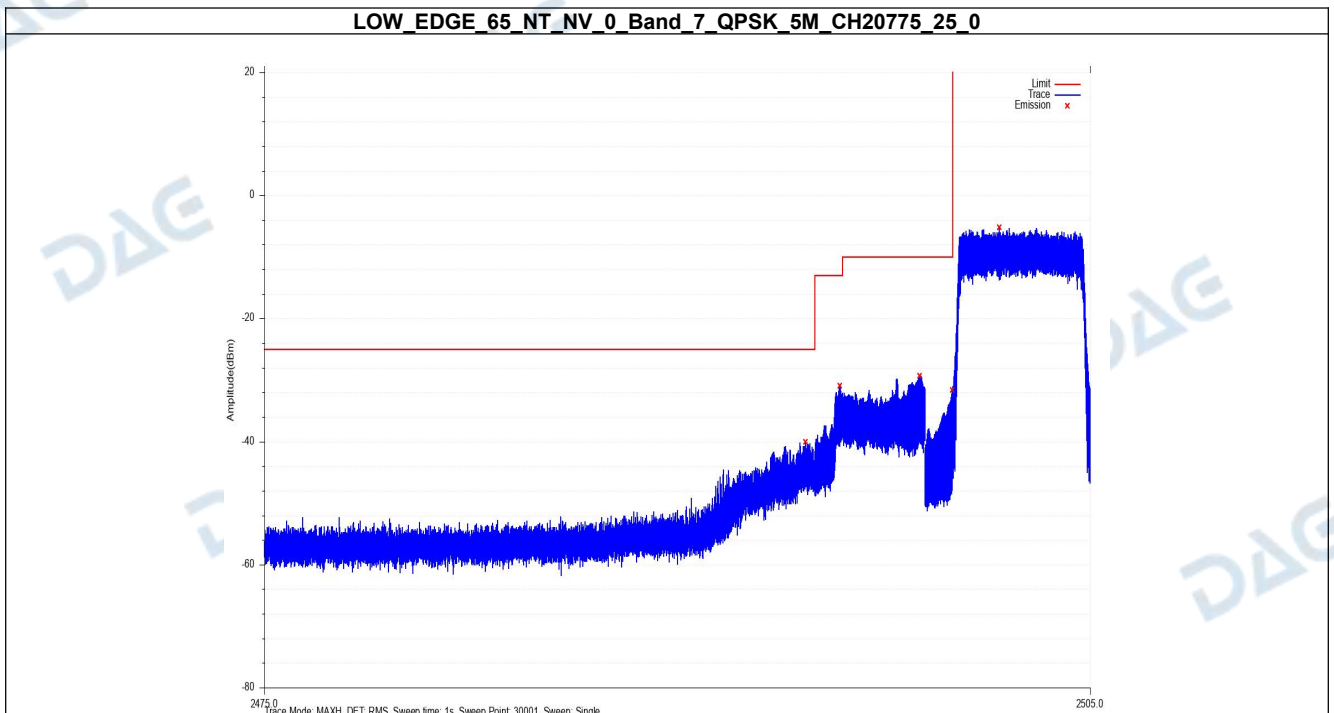
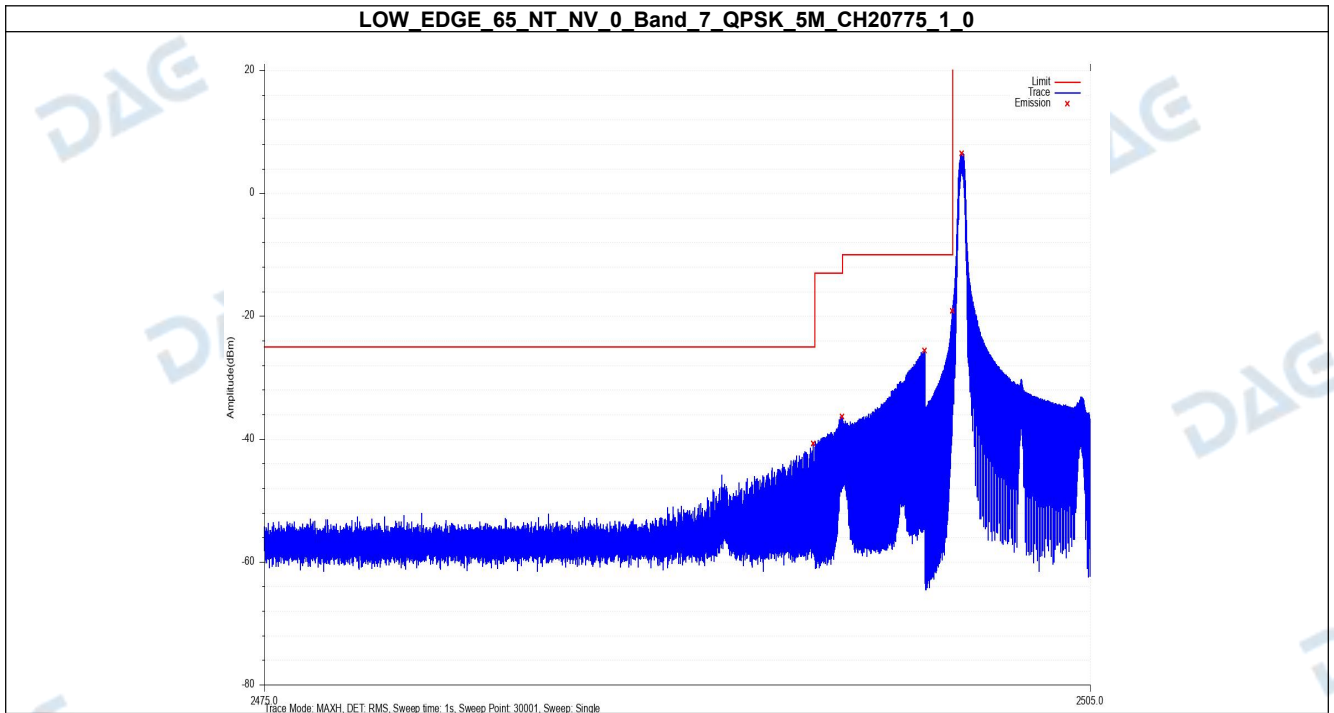






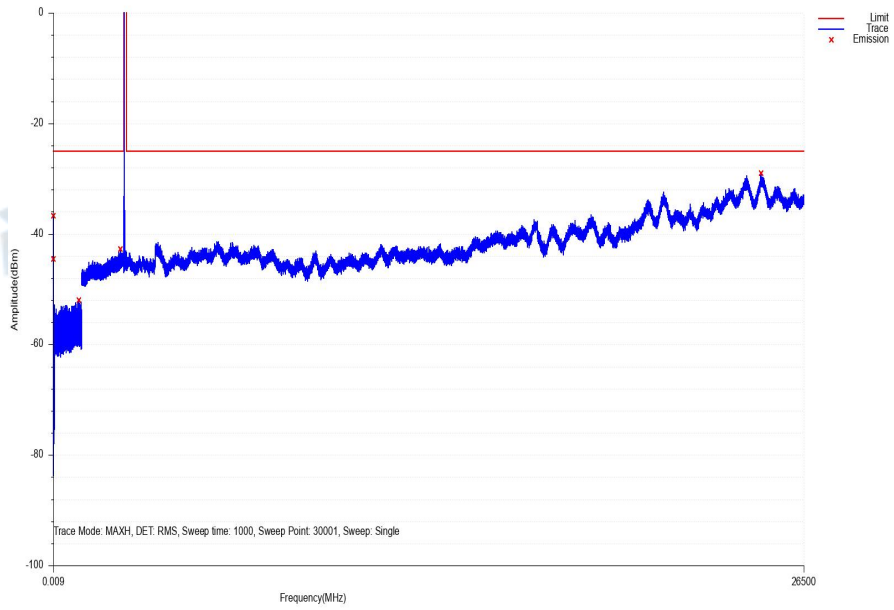
5. Unwanted Spurious Emission

Condition	Band	Modulation	BW (MHz)	Frequency (MHz)	RB_Size	RBW (kHz)	Test Freq Range (MHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Result
NV_NT	Band 7	QPSK	5M	2502.5	1	1000	2475.0~2495.0	2494.943	-40.78	-25	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	1000	2495.0~2496.0	2495.995	-36.35	-13	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	1000	2496.0~2499.0	2498.993	-25.58	-10	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	100.0	2499.0~2500.0	2499.999	-19.20	-10	Pass
NV_NT	Band 7	QPSK	5M	2502.5	25	1000	2475.0~2495.0	2494.659	-40.05	-25	Pass
NV_NT	Band 7	QPSK	5M	2502.5	25	1000	2495.0~2496.0	2495.901	-30.96	-13	Pass
NV_NT	Band 7	QPSK	5M	2502.5	25	1000	2496.0~2499.0	2498.802	-29.27	-10	Pass
NV_NT	Band 7	QPSK	5M	2502.5	25	100.0	2499.0~2500.0	2499.997	-31.59	-10	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	1	0.009~0.150	0.010	-36.75	-25	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	10	0.150~30.000	0.153	-44.58	-25	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	100	30~1000	898.732	-52.00	-25	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	1000	1000~2475	2370.718	-42.74	-25	Pass
NV_NT	Band 7	QPSK	5M	2502.5	1	1000	2590~26500	24989.685	-29.04	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	1000	2475.0~2495.0	2494.638	-42.65	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	1000	2495.0~2496.0	2495.997	-38.40	-13	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	1000	2496.0~2499.0	2498.985	-28.02	-10	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	100.0	2499.0~2500.0	2499.999	-22.90	-10	Pass
NV_NT	Band 7	16QAM	5M	2502.5	25	1000	2475.0~2495.0	2494.795	-39.47	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	25	1000	2495.0~2496.0	2495.947	-35.27	-13	Pass
NV_NT	Band 7	16QAM	5M	2502.5	25	1000	2496.0~2499.0	2498.975	-29.68	-10	Pass
NV_NT	Band 7	16QAM	5M	2502.5	25	100.0	2499.0~2500.0	2499.997	-33.03	-10	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	1	0.009~0.150	0.009	-36.68	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	10	0.150~30.000	0.150	-42.99	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	100	30~1000	967.634	-51.52	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	1000	1000~2475	2424.604	-43.34	-25	Pass
NV_NT	Band 7	16QAM	5M	2502.5	1	1000	2590~26500	25035.114	-29.16	-25	Pass
NV_NT	Band 7	QPSK	5M	2535.0	25	1	0.009~0.150	0.009	-38.03	-25	Pass
NV_NT	Band 7	QPSK	5M	2535.0	25	10	0.150~30.000	0.156	-42.38	-25	Pass
NV_NT	Band 7	QPSK	5M	2535.0	25	100	30~1000	787.635	-51.03	-25	Pass
NV_NT	Band 7	QPSK	5M	2535.0	25	1000	1000~2475	2449.089	-43.37	-25	Pass
NV_NT	Band 7	QPSK	5M	2535.0	25	1000	2590~26500	25007.392	-29.19	-25	Pass
NV_NT	Band 7	16QAM	5M	2535.0	25	1	0.009~0.150	0.009	-36.09	-25	Pass
NV_NT	Band 7	16QAM	5M	2535.0	25	10	0.150~30.000	0.151	-44.67	-25	Pass
NV_NT	Band 7	16QAM	5M	2535.0	25	100	30~1000	940.151	-52.20	-25	Pass
NV_NT	Band 7	16QAM	5M	2535.0	25	1000	1000~2475	2446.926	-43.21	-25	Pass
NV_NT	Band 7	16QAM	5M	2535.0	25	1000	2590~26500	25022.541	-29.47	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	100.0	2570.0~2571.0	2570.002	-21.33	-10	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	1000	2571.0~2575.0	2571.009	-26.47	-10	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	1000	2575.0~2576.0	2575.100	-42.99	-13	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	1000	2576.0~2580.0	2576.163	-45.87	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	25	100.0	2570.0~2571.0	2570.002	-28.97	-10	Pass
NV_NT	Band 7	QPSK	5M	2567.5	25	1000	2571.0~2575.0	2571.080	-26.33	-10	Pass
NV_NT	Band 7	QPSK	5M	2567.5	25	1000	2575.0~2576.0	2575.312	-40.01	-13	Pass
NV_NT	Band 7	QPSK	5M	2567.5	25	1000	2576.0~2580.0	2576.449	-41.52	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	1	0.009~0.150	0.009	-38.03	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	10	0.150~30.000	0.156	-45.31	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	100	30~1000	444.675	-52.27	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	1000	1000~2475	2429.668	-43.36	-25	Pass
NV_NT	Band 7	QPSK	5M	2567.5	1	1000	2590~26500	25020.768	-29.44	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	100.0	2570.0~2571.0	2570.005	-21.49	-10	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	1000	2571.0~2575.0	2571.001	-26.86	-10	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	1000	2575.0~2576.0	2575.048	-42.08	-13	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	1000	2576.0~2580.0	2576.005	-44.00	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	25	100.0	2570.0~2571.0	2570.001	-31.09	-10	Pass
NV_NT	Band 7	16QAM	5M	2567.5	25	1000	2571.0~2575.0	2571.027	-28.58	-10	Pass
NV_NT	Band 7	16QAM	5M	2567.5	25	1000	2575.0~2576.0	2575.147	-37.29	-13	Pass
NV_NT	Band 7	16QAM	5M	2567.5	25	1000	2576.0~2580.0	2576.065	-41.98	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	1	0.009~0.150	0.011	-37.25	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	10	0.150~30.000	0.165	-44.11	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	100	30~1000	923.920	-51.81	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	1000	1000~2475	2457.890	-42.79	-25	Pass
NV_NT	Band 7	16QAM	5M	2567.5	1	1000	2590~26500	25063.009	-29.48	-25	Pass

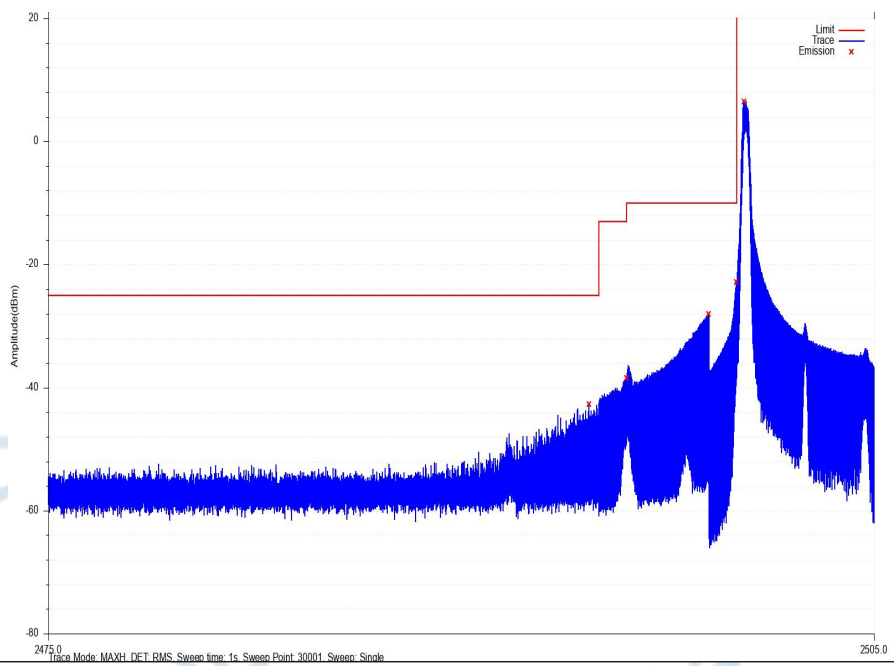


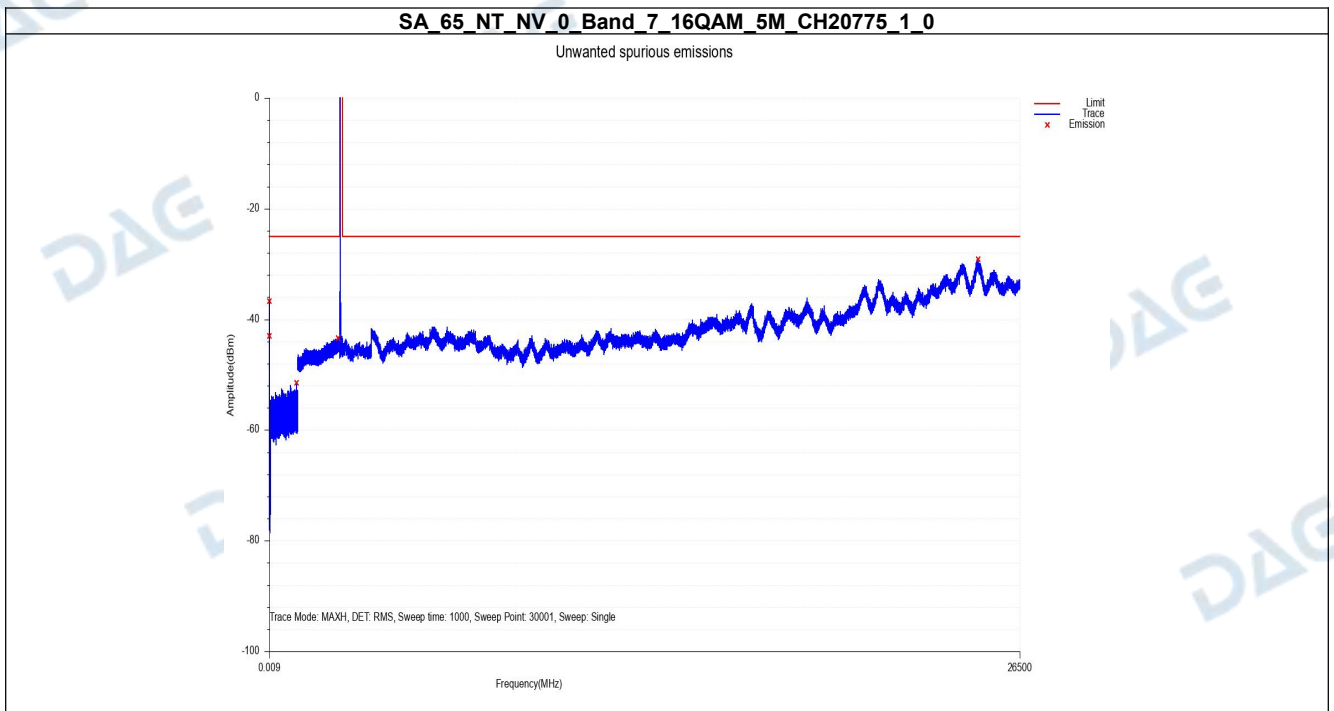
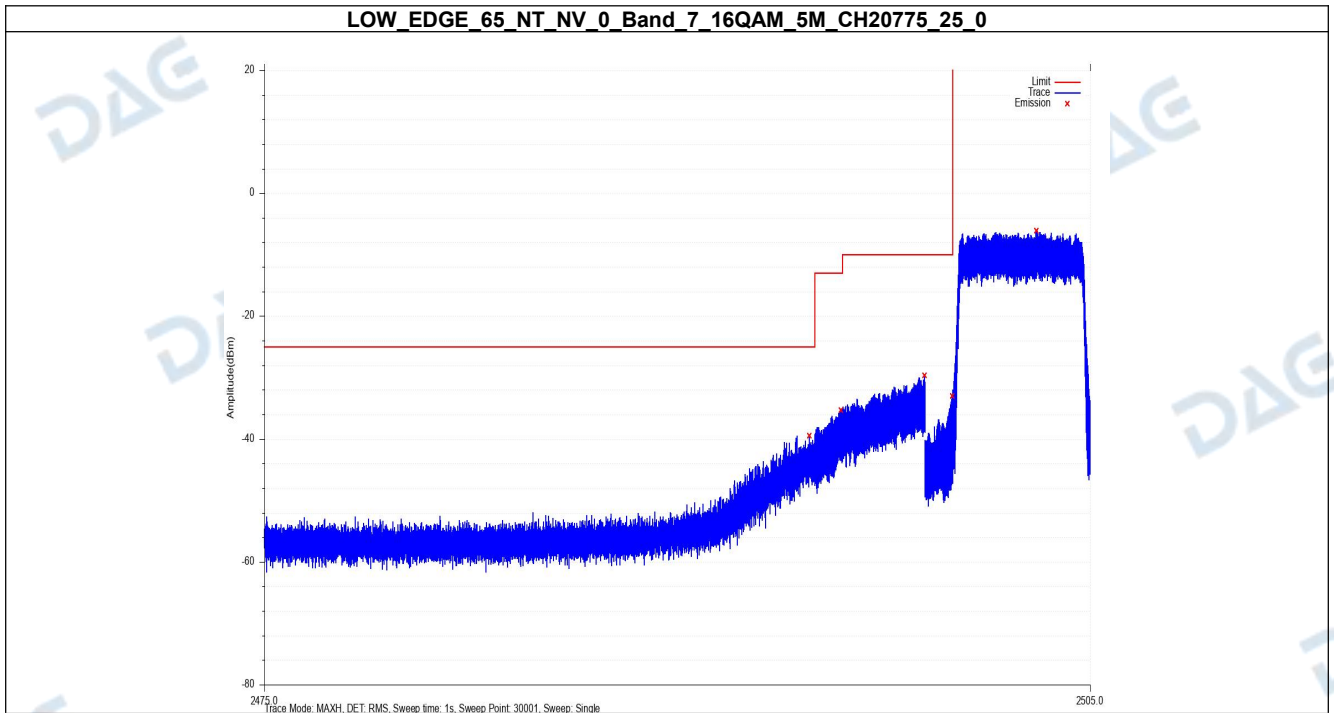
SA_65_NT_NV_0_Band_7_QPSK_5M_CH20775_1_0

Unwanted spurious emissions



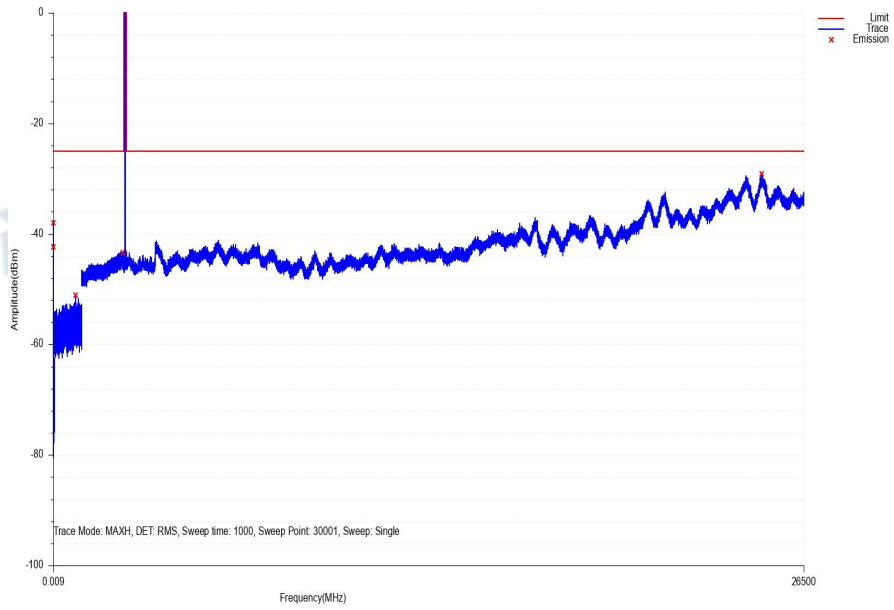
LOW_EDGE_65_NT_NV_0_Band_7_16QAM_5M_CH20775_1_0





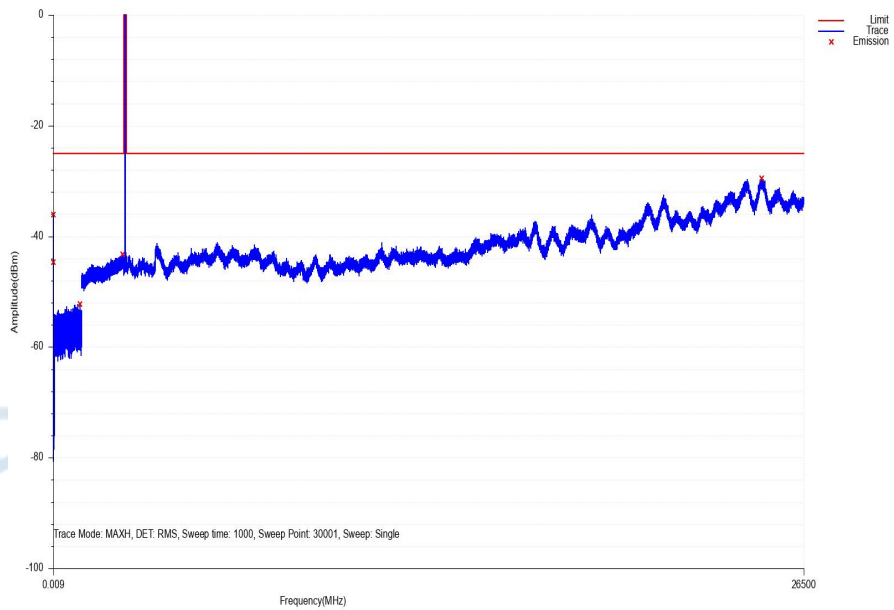
SA_65_NT_NV_0_Band_7_QPSK_5M_CH21100_25_0

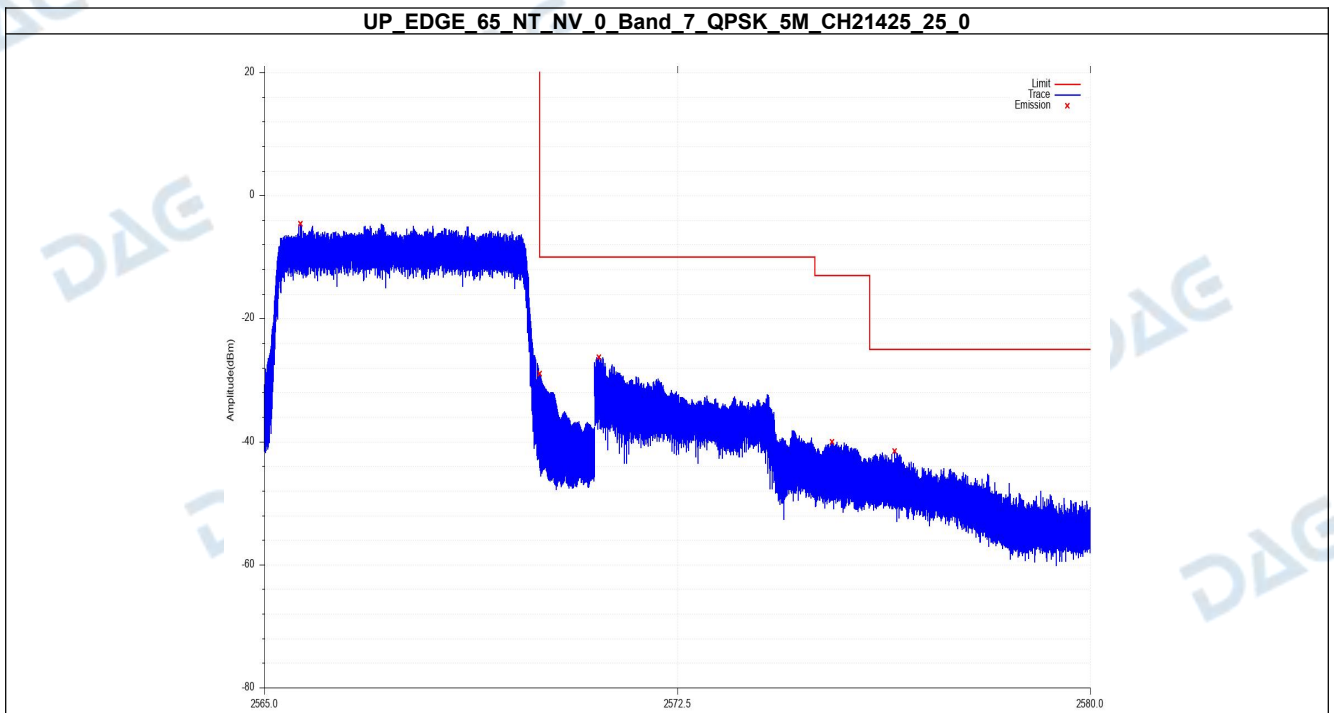
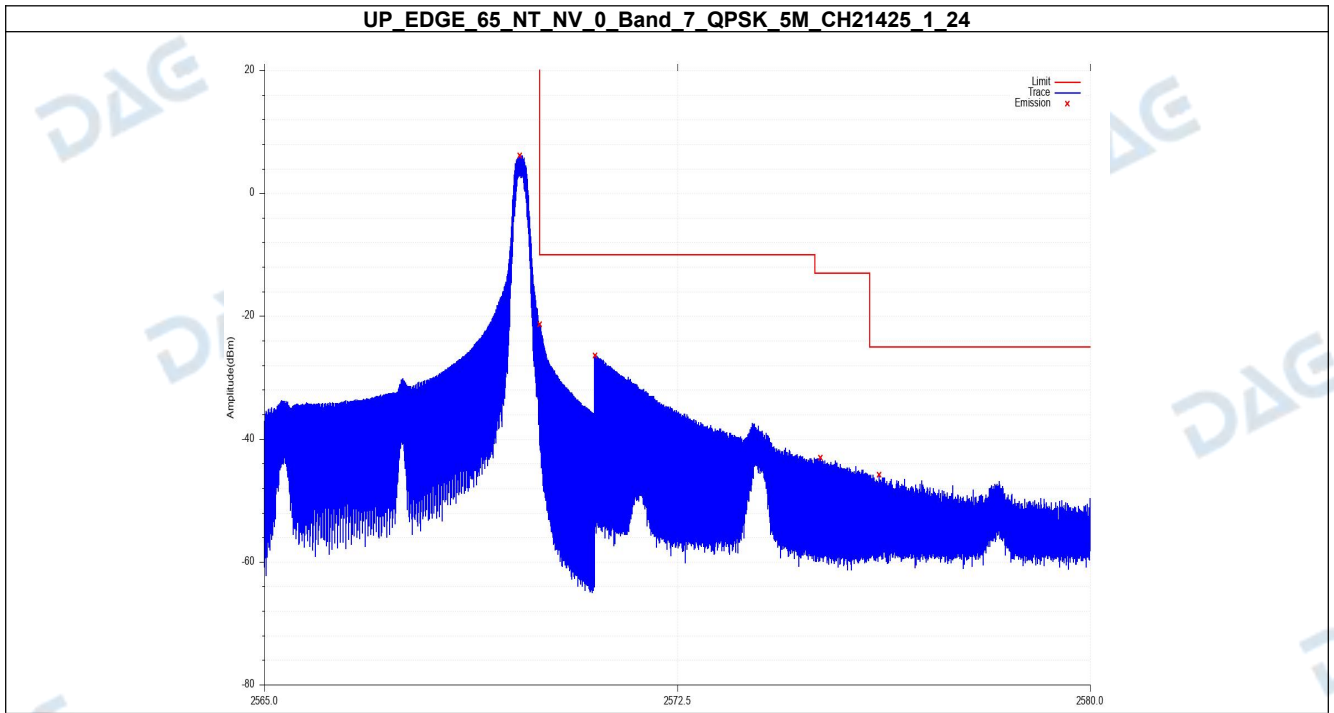
Unwanted spurious emissions



SA_65_NT_NV_0_Band_7_16QAM_5M_CH21100_25_0

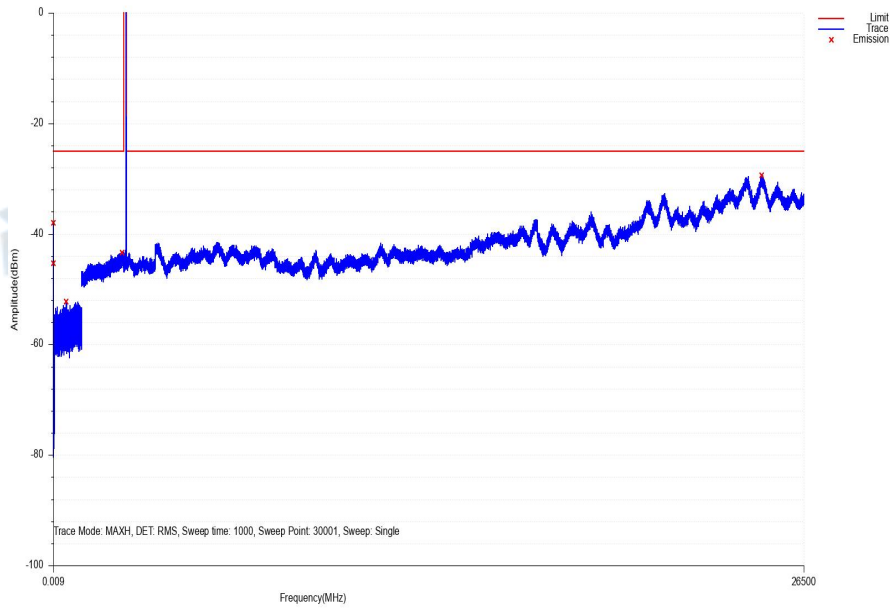
Unwanted spurious emissions



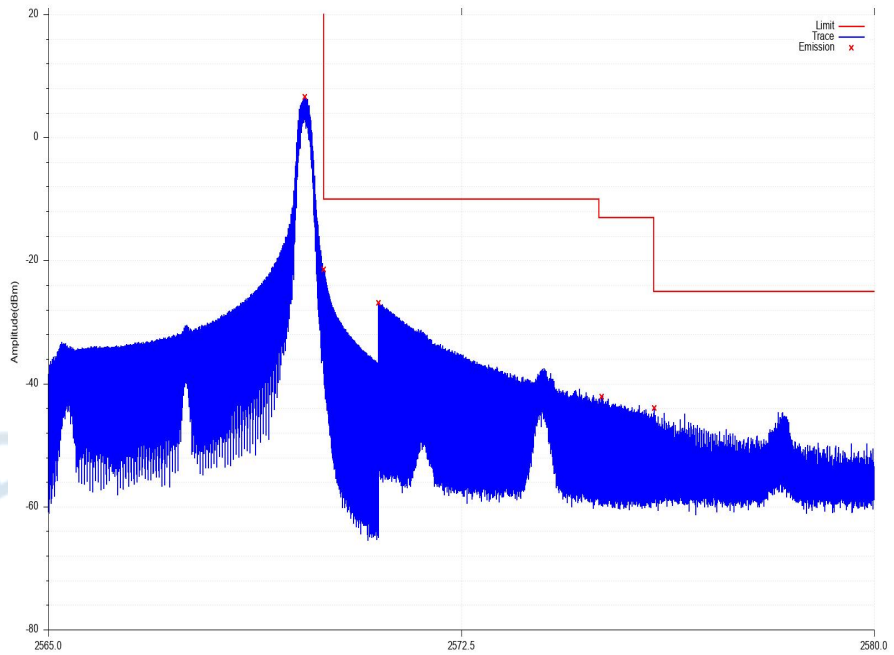


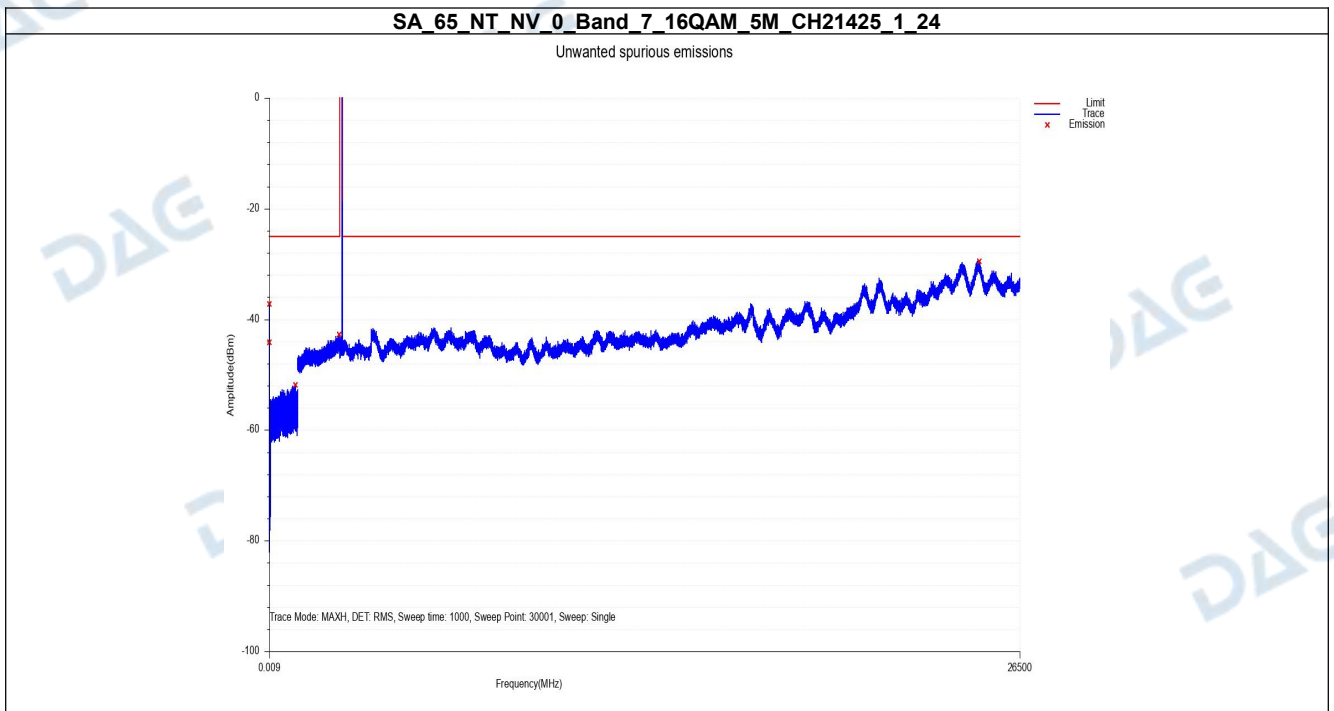
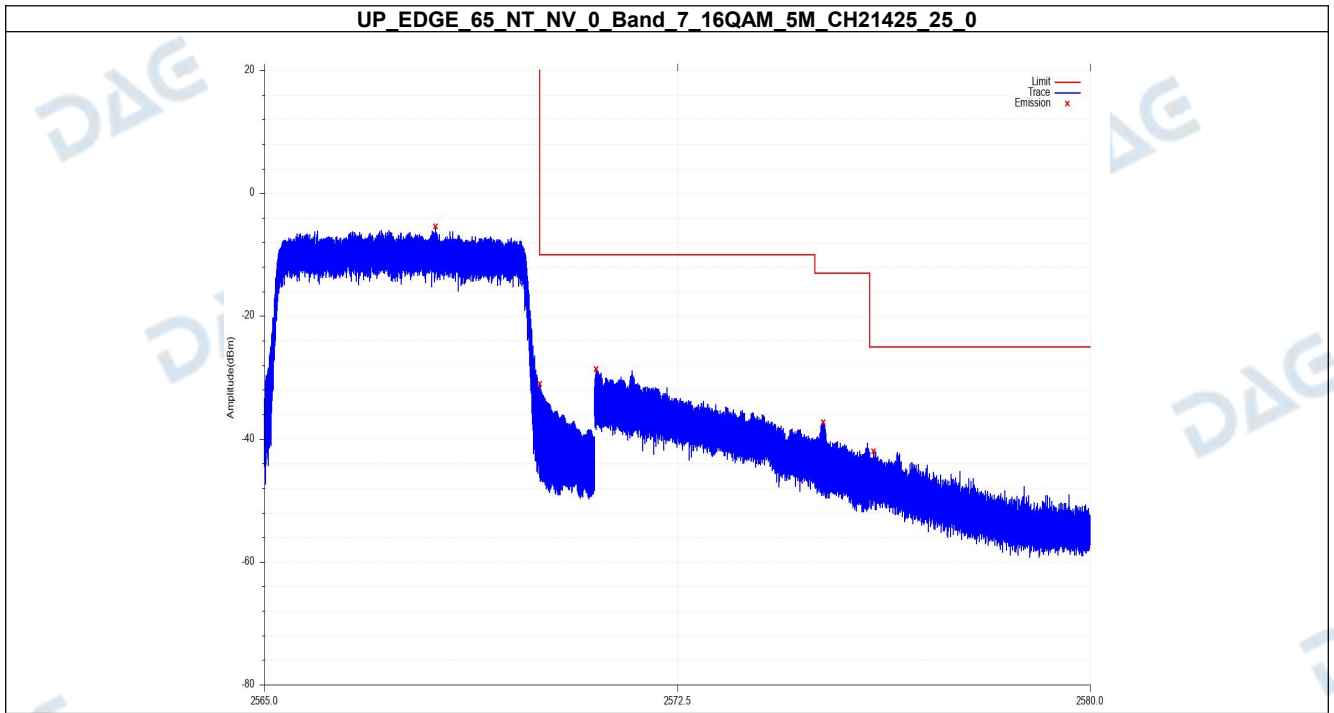
SA_65_NT_NV_0_Band_7_QPSK_5M_CH21425_1_24

Unwanted spurious emissions



UP_EDGE_65_NT_NV_0_Band_7_16QAM_5M_CH21425_1_24





6. Frequency Stability

Condition	Band	Modulation	BW(MHz)	Frequency (MHz)	RB_Size	Freq. S (Hz)	Freq. S (ppm)	Limit(ppm)	Result
NV_NT	Band 7	QPSK	5M	2502.5	25	12.97	0.0052	-2.5~2.5	Pass
NV_50C	Band 7	QPSK	5M	2502.5	25	33.89	0.0135	-2.5~2.5	Pass
NV_40C	Band 7	QPSK	5M	2502.5	25	36.66	0.0147	-2.5~2.5	Pass
NV_30C	Band 7	QPSK	5M	2502.5	25	46.16	0.0184	-2.5~2.5	Pass
NV_20C	Band 7	QPSK	5M	2502.5	25	-0.03	-0.0000	-2.5~2.5	Pass
NV_10C	Band 7	QPSK	5M	2502.5	25	48.07	0.0192	-2.5~2.5	Pass
NV_0C	Band 7	QPSK	5M	2502.5	25	22.87	0.0091	-2.5~2.5	Pass
NV_-10C	Band 7	QPSK	5M	2502.5	25	21.54	0.0086	-2.5~2.5	Pass
NV_-20C	Band 7	QPSK	5M	2502.5	25	36.84	0.0147	-2.5~2.5	Pass
NV_-30C	Band 7	QPSK	5M	2502.5	25	20.63	0.0082	-2.5~2.5	Pass
LV_NT	Band 7	QPSK	5M	2502.5	25	25.16	0.0101	-2.5~2.5	Pass
HV_NT	Band 7	QPSK	5M	2502.5	25	17.29	0.0069	-2.5~2.5	Pass
NV_NT	Band 7	16QAM	5M	2502.5	25	5.89	0.0024	-2.5~2.5	Pass
NV_50C	Band 7	16QAM	5M	2502.5	25	6.97	0.0028	-2.5~2.5	Pass
NV_40C	Band 7	16QAM	5M	2502.5	25	1.47	0.0006	-2.5~2.5	Pass
NV_30C	Band 7	16QAM	5M	2502.5	25	-2.20	-0.0009	-2.5~2.5	Pass
NV_20C	Band 7	16QAM	5M	2502.5	25	-4.84	-0.0019	-2.5~2.5	Pass
NV_10C	Band 7	16QAM	5M	2502.5	25	-1.32	-0.0005	-2.5~2.5	Pass
NV_0C	Band 7	16QAM	5M	2502.5	25	6.74	0.0027	-2.5~2.5	Pass
NV_-10C	Band 7	16QAM	5M	2502.5	25	14.98	0.0060	-2.5~2.5	Pass
NV_-20C	Band 7	16QAM	5M	2502.5	25	30.07	0.0120	-2.5~2.5	Pass
NV_-30C	Band 7	16QAM	5M	2502.5	25	-5.75	-0.0023	-2.5~2.5	Pass
LV_NT	Band 7	16QAM	5M	2502.5	25	5.69	0.0023	-2.5~2.5	Pass
HV_NT	Band 7	16QAM	5M	2502.5	25	25.39	0.0101	-2.5~2.5	Pass