



# Appendix

## NR Band N38



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

#### ANT5:

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	EIRP	Limit	Verdict
N38	30kHz	20MHz	DFT-PI2BPSK	Low	Inner_1RB_Left	23.55	23.65	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	Low	Inner_1RB_Right	23.67	23.77	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	Low	Inner_Full	23.81	23.91	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	Mid	Inner_1RB_Left	23.63	23.73	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	Mid	Inner_1RB_Right	23.51	23.61	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	Mid	Inner_Full	23.77	23.87	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	High	Inner_1RB_Left	23.65	23.75	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	High	Inner_1RB_Right	23.64	23.74	33.00	PASS
N38	30kHz	20MHz	DFT-PI2BPSK	High	Inner_Full	23.79	23.89	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	Low	Inner_1RB_Left	23.55	23.65	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	Low	Inner_1RB_Right	23.68	23.78	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	Low	Inner_Full	23.84	23.94	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	Mid	Inner_1RB_Left	23.67	23.77	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	Mid	Inner_1RB_Right	23.54	23.64	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	Mid	Inner_Full	23.77	23.87	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	High	Inner_1RB_Left	23.53	23.63	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	High	Inner_1RB_Right	23.57	23.67	33.00	PASS
N38	30kHz	20MHz	DFT-QPSK	High	Inner_Full	23.79	23.89	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	Low	Inner_1RB_Left	22.69	22.79	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	Low	Inner_1RB_Right	22.42	22.52	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	Low	Inner_Full	22.74	22.84	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	Mid	Inner_1RB_Left	22.93	23.03	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	Mid	Inner_1RB_Right	22.69	22.79	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	Mid	Inner_Full	22.80	22.90	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	High	Inner_1RB_Left	22.75	22.85	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	High	Inner_1RB_Right	22.74	22.84	33.00	PASS
N38	30kHz	20MHz	DFT-16QAM	High	Inner_Full	22.73	22.83	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	Low	Inner_1RB_Left	21.19	21.29	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	Low	Inner_1RB_Right	21.18	21.28	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	Low	Inner_Full	21.37	21.47	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	Mid	Inner_1RB_Left	21.21	21.31	33.00	PASS



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N38	30kHz	20MHz	DFT-64QAM	Mid	Inner_1RB_Right	21.08	21.18	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	Mid	Inner_Full	21.32	21.42	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	High	Inner_1RB_Left	21.14	21.24	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	High	Inner_1RB_Right	21.28	21.38	33.00	PASS
N38	30kHz	20MHz	DFT-64QAM	High	Inner_Full	21.30	21.40	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	Low	Inner_1RB_Left	19.40	19.50	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	Low	Inner_1RB_Right	19.55	19.65	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	Low	Inner_Full	19.51	19.61	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	Mid	Inner_1RB_Left	19.37	19.47	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	Mid	Inner_1RB_Right	19.48	19.58	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	Mid	Inner_Full	19.38	19.48	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	High	Inner_1RB_Left	19.57	19.67	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	High	Inner_1RB_Right	19.59	19.69	33.00	PASS
N38	30kHz	20MHz	DFT-256QAM	High	Inner_Full	19.45	19.55	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	Low	Inner_1RB_Left	22.27	22.37	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	Low	Inner_1RB_Right	22.16	22.26	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	Low	Inner_Full	22.26	22.36	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	Mid	Inner_1RB_Left	22.29	22.39	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	Mid	Inner_1RB_Right	22.07	22.17	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	Mid	Inner_Full	22.20	22.30	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	High	Inner_1RB_Left	22.28	22.38	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	High	Inner_1RB_Right	22.19	22.29	33.00	PASS
N38	30kHz	20MHz	CP-QPSK	High	Inner_Full	22.24	22.34	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	Low	Inner_1RB_Left	21.60	21.70	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	Low	Inner_1RB_Right	21.77	21.87	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	Low	Inner_Full	21.90	22.00	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	Mid	Inner_1RB_Left	21.89	21.99	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	Mid	Inner_1RB_Right	21.81	21.91	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	Mid	Inner_Full	21.81	21.91	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	High	Inner_1RB_Left	21.67	21.77	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	High	Inner_1RB_Right	21.64	21.74	33.00	PASS
N38	30kHz	20MHz	CP-16QAM	High	Inner_Full	21.79	21.89	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	Low	Inner_1RB_Left	20.17	20.27	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	Low	Inner_1RB_Right	20.33	20.43	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	Low	Inner_Full	20.50	20.60	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	Mid	Inner_1RB_Left	20.36	20.46	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	Mid	Inner_1RB_Right	20.10	20.20	33.00	PASS



N38	30kHz	20MHz	CP-64QAM	Mid	Inner_Full	20.44	20.54	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	High	Inner_1RB_Left	20.43	20.53	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	High	Inner_1RB_Right	20.31	20.41	33.00	PASS
N38	30kHz	20MHz	CP-64QAM	High	Inner_Full	20.39	20.49	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	Low	Inner_1RB_Left	17.51	17.61	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	Low	Inner_1RB_Right	17.48	17.58	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	Low	Inner_Full	17.40	17.50	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	Mid	Inner_1RB_Left	17.60	17.70	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	Mid	Inner_1RB_Right	17.36	17.46	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	Mid	Inner_Full	17.43	17.53	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	High	Inner_1RB_Left	17.60	17.70	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	High	Inner_1RB_Right	17.47	17.57	33.00	PASS
N38	30kHz	20MHz	CP-256QAM	High	Inner_Full	17.34	17.44	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Low	Inner_1RB_Left	23.61	23.71	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Low	Inner_1RB_Right	23.81	23.91	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Low	Inner_Full	24.06	24.16	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Mid	Inner_1RB_Left	23.68	23.78	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Mid	Inner_1RB_Right	23.71	23.81	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Mid	Inner_Full	24.12	24.22	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	High	Inner_1RB_Left	23.81	23.91	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	High	Inner_1RB_Right	23.79	23.89	33.00	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	High	Inner_Full	23.99	24.09	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	Low	Inner_1RB_Left	23.60	23.70	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	Low	Inner_1RB_Right	23.82	23.92	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	Low	Inner_Full	24.07	24.17	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	Mid	Inner_1RB_Left	23.67	23.77	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	Mid	Inner_1RB_Right	23.72	23.82	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	Mid	Inner_Full	24.09	24.19	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	High	Inner_1RB_Left	23.79	23.89	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	High	Inner_1RB_Right	23.78	23.88	33.00	PASS
N38	30kHz	30MHz	DFT-QPSK	High	Inner_Full	23.98	24.08	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	Low	Inner_1RB_Left	22.67	22.77	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	Low	Inner_1RB_Right	22.91	23.01	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	Low	Inner_Full	23.11	23.21	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	Mid	Inner_1RB_Left	22.79	22.89	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	Mid	Inner_1RB_Right	22.79	22.89	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	Mid	Inner_Full	23.13	23.23	33.00	PASS



N38	30kHz	30MHz	DFT-16QAM	High	Inner_1RB_Left	22.89	22.99	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	High	Inner_1RB_Right	22.84	22.94	33.00	PASS
N38	30kHz	30MHz	DFT-16QAM	High	Inner_Full	23.04	23.14	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	Low	Inner_1RB_Left	21.21	21.31	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	Low	Inner_1RB_Right	21.23	21.33	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	Low	Inner_Full	21.58	21.68	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	Mid	Inner_1RB_Left	21.09	21.19	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	Mid	Inner_1RB_Right	21.36	21.46	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	Mid	Inner_Full	21.61	21.71	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	High	Inner_1RB_Left	21.19	21.29	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	High	Inner_1RB_Right	21.14	21.24	33.00	PASS
N38	30kHz	30MHz	DFT-64QAM	High	Inner_Full	21.51	21.61	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	Low	Inner_1RB_Left	19.23	19.33	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	Low	Inner_1RB_Right	19.42	19.52	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	Low	Inner_Full	19.72	19.82	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	Mid	Inner_1RB_Left	19.19	19.29	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	Mid	Inner_1RB_Right	19.39	19.49	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	Mid	Inner_Full	19.73	19.83	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	High	Inner_1RB_Left	19.36	19.46	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	High	Inner_1RB_Right	19.33	19.43	33.00	PASS
N38	30kHz	30MHz	DFT-256QAM	High	Inner_Full	19.61	19.71	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	Low	Inner_1RB_Left	22.03	22.13	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	Low	Inner_1RB_Right	22.31	22.41	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	Low	Inner_Full	22.55	22.65	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	Mid	Inner_1RB_Left	22.19	22.29	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	Mid	Inner_1RB_Right	22.31	22.41	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	Mid	Inner_Full	21.14	21.24	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	High	Inner_1RB_Left	22.35	22.45	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	High	Inner_1RB_Right	22.27	22.37	33.00	PASS
N38	30kHz	30MHz	CP-QPSK	High	Inner_Full	22.46	22.56	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	Low	Inner_1RB_Left	21.71	21.81	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	Low	Inner_1RB_Right	22.04	22.14	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	Low	Inner_Full	22.06	22.16	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	Mid	Inner_1RB_Left	21.82	21.92	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	Mid	Inner_1RB_Right	21.68	21.78	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	Mid	Inner_Full	22.06	22.16	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	High	Inner_1RB_Left	22.08	22.18	33.00	PASS



N38	30kHz	30MHz	CP-16QAM	High	Inner_1RB_Right	21.84	21.94	33.00	PASS
N38	30kHz	30MHz	CP-16QAM	High	Inner_Full	22.00	22.10	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	Low	Inner_1RB_Left	20.37	20.47	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	Low	Inner_1RB_Right	20.59	20.69	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	Low	Inner_Full	20.67	20.77	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	Mid	Inner_1RB_Left	20.23	20.33	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	Mid	Inner_1RB_Right	20.31	20.41	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	Mid	Inner_Full	20.68	20.78	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	High	Inner_1RB_Left	20.32	20.42	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	High	Inner_1RB_Right	20.32	20.42	33.00	PASS
N38	30kHz	30MHz	CP-64QAM	High	Inner_Full	20.58	20.68	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	Low	Inner_1RB_Left	17.00	17.10	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	Low	Inner_1RB_Right	17.24	17.34	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	Low	Inner_Full	17.80	17.90	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	Mid	Inner_1RB_Left	17.26	17.36	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	Mid	Inner_1RB_Right	17.37	17.47	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	Mid	Inner_Full	17.75	17.85	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	High	Inner_1RB_Left	17.43	17.53	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	High	Inner_1RB_Right	17.44	17.54	33.00	PASS
N38	30kHz	30MHz	CP-256QAM	High	Inner_Full	17.56	17.66	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Low	Inner_1RB_Left	23.22	23.32	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Low	Inner_1RB_Right	23.41	23.51	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Low	Inner_Full	23.89	23.99	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Mid	Inner_1RB_Left	23.24	23.34	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Mid	Inner_1RB_Right	23.37	23.47	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Mid	Inner_Full	23.77	23.87	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	High	Inner_1RB_Left	23.39	23.49	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	High	Inner_1RB_Right	23.49	23.59	33.00	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	High	Inner_Full	23.86	23.96	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	Low	Inner_1RB_Left	23.27	23.37	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	Low	Inner_1RB_Right	23.43	23.53	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	Low	Inner_Full	23.87	23.97	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	Mid	Inner_1RB_Left	23.14	23.24	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	Mid	Inner_1RB_Right	23.42	23.52	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	Mid	Inner_Full	23.75	23.85	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	High	Inner_1RB_Left	23.24	23.34	33.00	PASS
N38	30kHz	40MHz	DFT-QPSK	High	Inner_1RB_Right	23.49	23.59	33.00	PASS



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N38	30kHz	40MHz	DFT-QPSK	High	Inner_Full	23.84	23.94	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	Low	Inner_1RB_Left	22.41	22.51	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	Low	Inner_1RB_Right	22.58	22.68	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	Low	Inner_Full	22.71	22.81	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	Mid	Inner_1RB_Left	22.38	22.48	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	Mid	Inner_1RB_Right	22.67	22.77	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	Mid	Inner_Full	22.74	22.84	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	High	Inner_1RB_Left	22.58	22.68	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	High	Inner_1RB_Right	22.66	22.76	33.00	PASS
N38	30kHz	40MHz	DFT-16QAM	High	Inner_Full	22.90	23.00	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	Low	Inner_1RB_Left	20.77	20.87	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	Low	Inner_1RB_Right	20.80	20.90	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	Low	Inner_Full	21.32	21.42	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	Mid	Inner_1RB_Left	20.70	20.80	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	Mid	Inner_1RB_Right	21.07	21.17	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	Mid	Inner_Full	21.26	21.36	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	High	Inner_1RB_Left	20.88	20.98	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	High	Inner_1RB_Right	21.22	21.32	33.00	PASS
N38	30kHz	40MHz	DFT-64QAM	High	Inner_Full	21.36	21.46	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	Low	Inner_1RB_Left	19.02	19.12	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	Low	Inner_1RB_Right	19.08	19.18	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	Low	Inner_Full	19.54	19.64	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	Mid	Inner_1RB_Left	18.91	19.01	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	Mid	Inner_1RB_Right	19.35	19.45	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	Mid	Inner_Full	19.40	19.50	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	High	Inner_1RB_Left	19.13	19.23	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	High	Inner_1RB_Right	19.42	19.52	33.00	PASS
N38	30kHz	40MHz	DFT-256QAM	High	Inner_Full	19.43	19.53	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	Low	Inner_1RB_Left	22.03	22.13	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	Low	Inner_1RB_Right	22.02	22.12	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	Low	Inner_Full	22.36	22.46	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	Mid	Inner_1RB_Left	21.82	21.92	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	Mid	Inner_1RB_Right	21.93	22.03	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	Mid	Inner_Full	22.22	22.32	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	High	Inner_1RB_Left	22.08	22.18	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	High	Inner_1RB_Right	21.96	22.06	33.00	PASS
N38	30kHz	40MHz	CP-QPSK	High	Inner_Full	22.32	22.42	33.00	PASS



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N38	30kHz	40MHz	CP-16QAM	Low	Inner_1RB_Left	21.38	21.48	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	Low	Inner_1RB_Right	21.36	21.46	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	Low	Inner_Full	21.85	21.95	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	Mid	Inner_1RB_Left	21.34	21.44	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	Mid	Inner_1RB_Right	21.69	21.79	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	Mid	Inner_Full	21.80	21.90	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	High	Inner_1RB_Left	21.48	21.58	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	High	Inner_1RB_Right	21.55	21.65	33.00	PASS
N38	30kHz	40MHz	CP-16QAM	High	Inner_Full	21.81	21.91	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	Low	Inner_1RB_Left	19.88	19.98	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	Low	Inner_1RB_Right	20.13	20.23	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	Low	Inner_Full	20.43	20.53	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	Mid	Inner_1RB_Left	19.71	19.81	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	Mid	Inner_1RB_Right	19.92	20.02	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	Mid	Inner_Full	20.31	20.41	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	High	Inner_1RB_Left	20.13	20.23	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	High	Inner_1RB_Right	20.36	20.46	33.00	PASS
N38	30kHz	40MHz	CP-64QAM	High	Inner_Full	20.42	20.52	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	Low	Inner_1RB_Left	17.00	17.10	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	Low	Inner_1RB_Right	17.14	17.24	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	Low	Inner_Full	17.50	17.60	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	Mid	Inner_1RB_Left	17.16	17.26	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	Mid	Inner_1RB_Right	17.05	17.15	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	Mid	Inner_Full	17.37	17.47	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	High	Inner_1RB_Left	17.19	17.29	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	High	Inner_1RB_Right	17.18	17.28	33.00	PASS
N38	30kHz	40MHz	CP-256QAM	High	Inner_Full	17.42	17.52	33.00	PASS

Note:

a: For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$

$$\text{ERP [dBm]} = \text{Conducted Power [dBm]} + \text{Gain [dBi]} - 2.15$$





## Peak-to-Average Ratio(CCDF) for SA

### Test Result

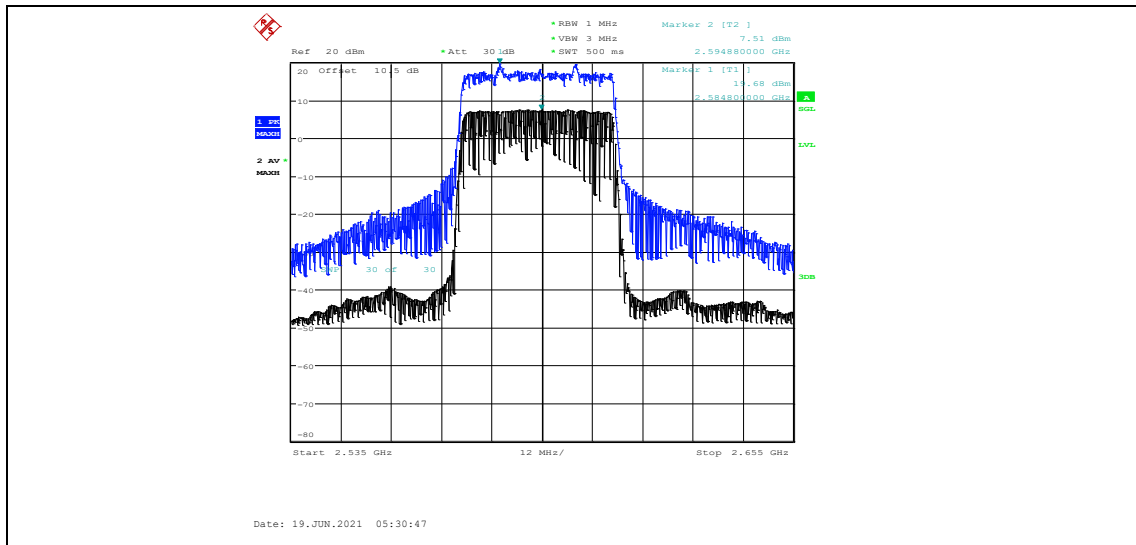
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N38	30kHz	40MHz	DFT-PI2BPSK	Mid	Outer_Full	12.17	≤13	PASS
N38	30kHz	40MHz	CP-QPSK	Mid	Outer_Full	12	≤13	PASS



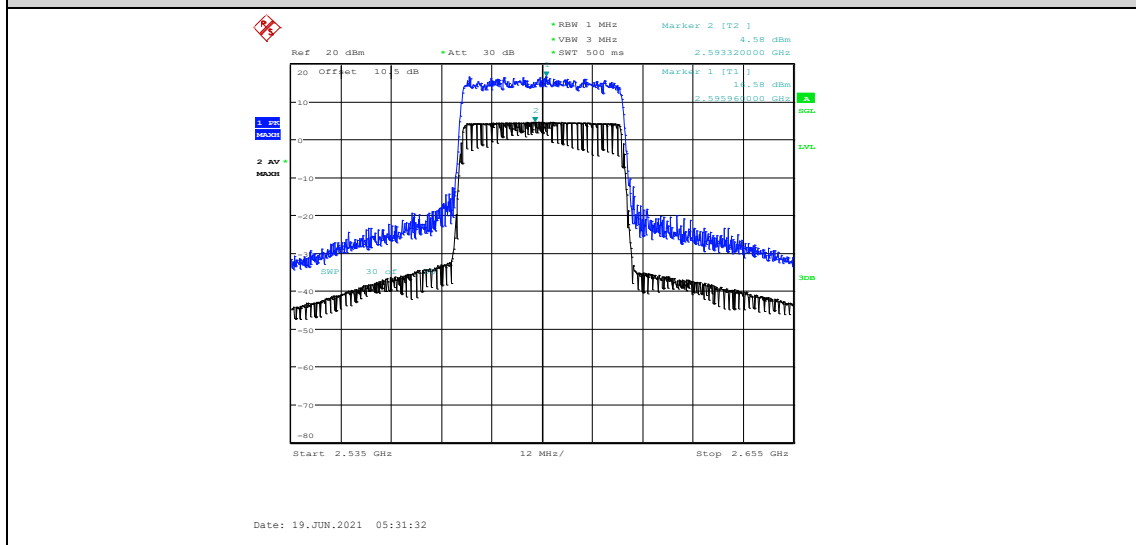
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**Test Graphs**



**NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Mid-Outer\_Full----≤13-PASS**



**NTNV-N38-30kHz-40MHz-CP-QPSK-Mid-Outer\_Full----≤13-PASS**

Remark: All antenna and all modulation had been tested, but only the worst case data displayed in this report.



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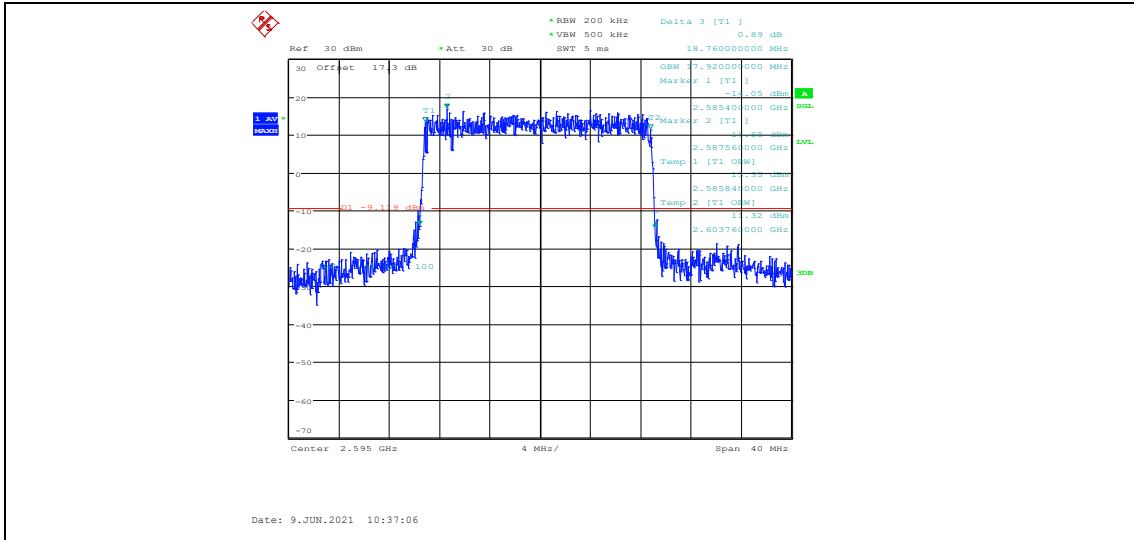
## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

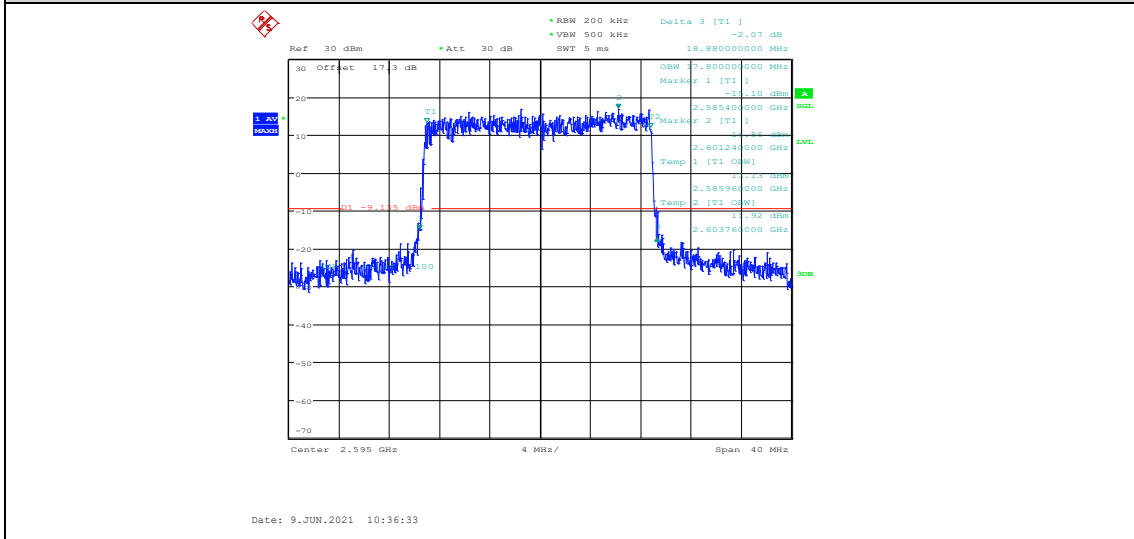
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Result	Verdict
N38	30kHz	20MHz	DFT-PI2BPSK	Mid	Outer_Full	17.92	18.760	PASS
N38	30kHz	20MHz	DFT-QPSK	Mid	Outer_Full	17.84	18.880	PASS
N38	30kHz	20MHz	DFT-16QAM	Mid	Outer_Full	17.96	18.800	PASS
N38	30kHz	20MHz	DFT-64QAM	Mid	Outer_Full	17.88	18.680	PASS
N38	30kHz	20MHz	DFT-256QAM	Mid	Outer_Full	17.92	18.880	PASS
N38	30kHz	20MHz	CP-QPSK	Mid	Outer_Full	18.28	19.240	PASS
N38	30kHz	20MHz	CP-16QAM	Mid	Outer_Full	18.2	19.000	PASS
N38	30kHz	20MHz	CP-64QAM	Mid	Outer_Full	18.16	19.080	PASS
N38	30kHz	20MHz	CP-256QAM	Mid	Outer_Full	18.28	19.080	PASS
N38	30kHz	30MHz	DFT-PI2BPSK	Mid	Outer_Full	26.88	28.320	PASS
N38	30kHz	30MHz	DFT-QPSK	Mid	Outer_Full	26.82	28.080	PASS
N38	30kHz	30MHz	DFT-16QAM	Mid	Outer_Full	26.7	27.900	PASS
N38	30kHz	30MHz	DFT-64QAM	Mid	Outer_Full	26.82	28.140	PASS
N38	30kHz	30MHz	DFT-256QAM	Mid	Outer_Full	26.7	27.960	PASS
N38	30kHz	30MHz	CP-QPSK	Mid	Outer_Full	27.9	28.920	PASS
N38	30kHz	30MHz	CP-16QAM	Mid	Outer_Full	27.9	29.280	PASS
N38	30kHz	30MHz	CP-64QAM	Mid	Outer_Full	27.9	29.220	PASS
N38	30kHz	30MHz	CP-256QAM	Mid	Outer_Full	27.9	29.100	PASS
N38	30kHz	40MHz	DFT-PI2BPSK	Mid	Outer_Full	35.92	37.520	PASS
N38	30kHz	40MHz	DFT-QPSK	Mid	Outer_Full	35.84	37.600	PASS
N38	30kHz	40MHz	DFT-16QAM	Mid	Outer_Full	35.84	37.600	PASS
N38	30kHz	40MHz	DFT-64QAM	Mid	Outer_Full	35.84	37.520	PASS
N38	30kHz	40MHz	DFT-256QAM	Mid	Outer_Full	35.84	37.760	PASS
N38	30kHz	40MHz	CP-QPSK	Mid	Outer_Full	38	39.920	PASS
N38	30kHz	40MHz	CP-16QAM	Mid	Outer_Full	38	39.680	PASS
N38	30kHz	40MHz	CP-64QAM	Mid	Outer_Full	38.08	39.680	PASS
N38	30kHz	40MHz	CP-256QAM	Mid	Outer_Full	38.08	39.840	PASS



**Test Graphs**



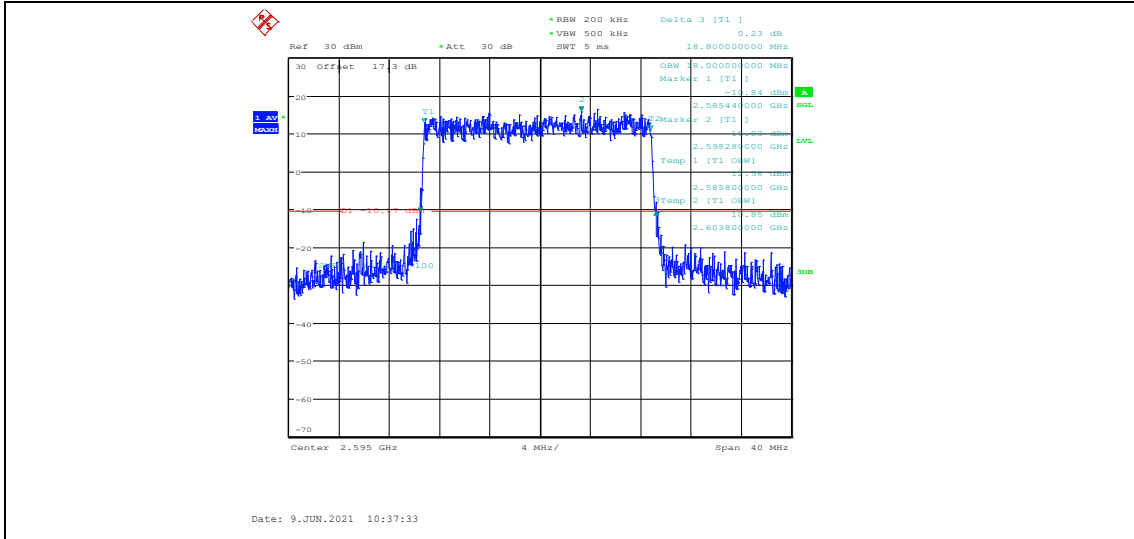
**NTNV-N38-30kHz-20MHz-DFT-PI2BPSK-Mid-Outer\_Full---PASS**



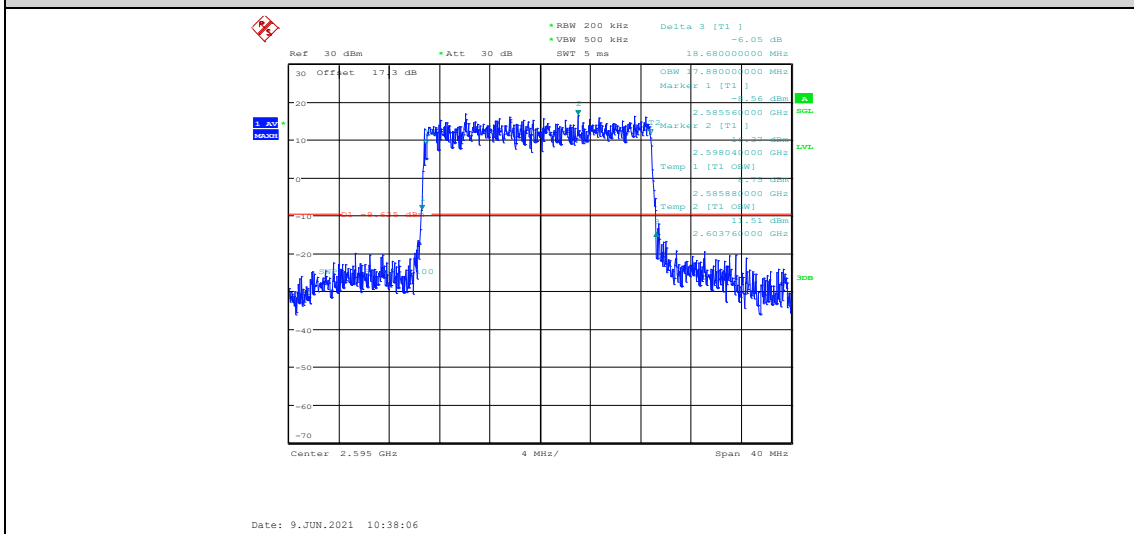
**NTNV-N38-30kHz-20MHz-DFT-QPSK-Mid-Outer\_Full---PASS**



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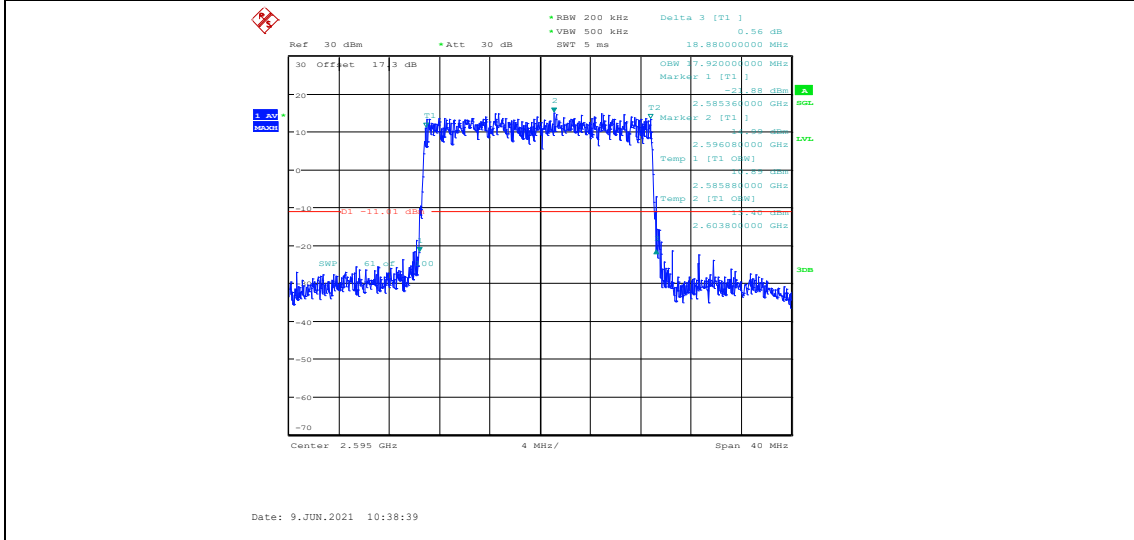
**NTNV-N38-30kHz-20MHz-DFT-16QAM-Mid-Outer\_Full---PASS**



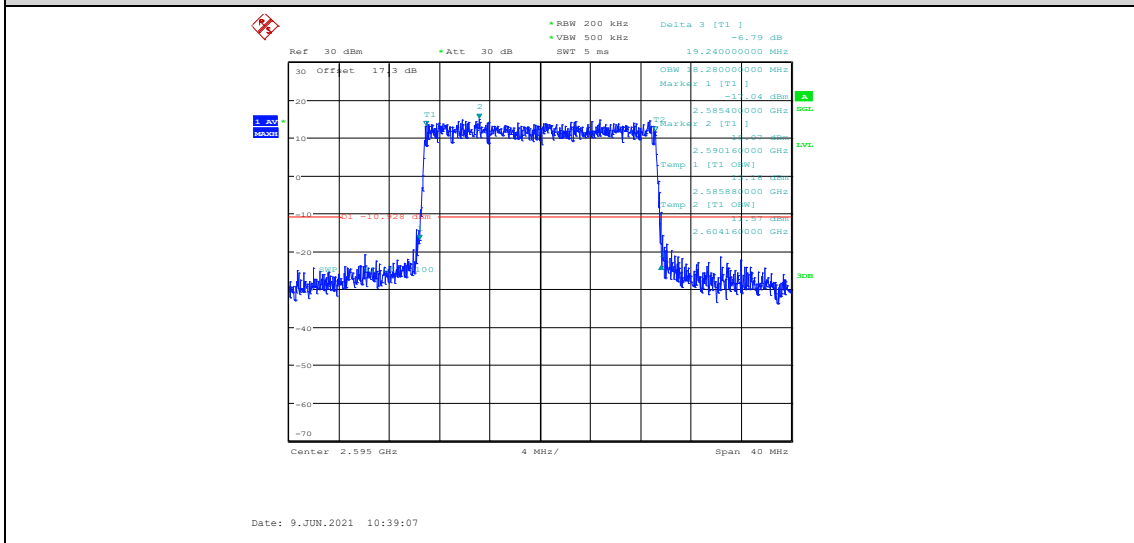
**NTNV-N38-30kHz-20MHz-DFT-64QAM-Mid-Outer\_Full---PASS**



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**NTNV-N38-30kHz-20MHz-DFT-256QAM-Mid-Outer\_Full---PASS**

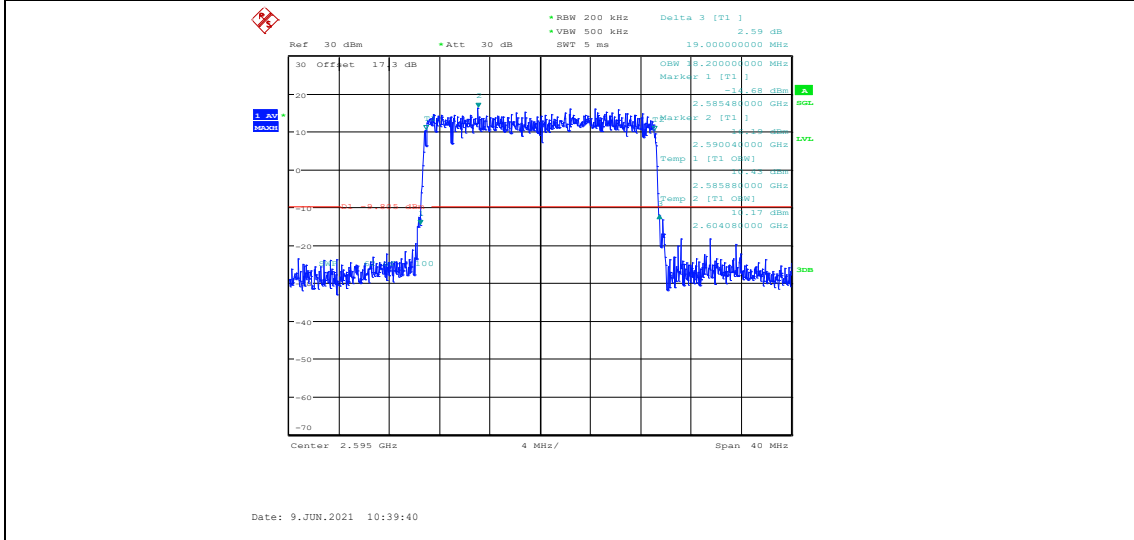


**NTNV-N38-30kHz-20MHz-CP-QPSK-Mid-Outer\_Full---PASS**

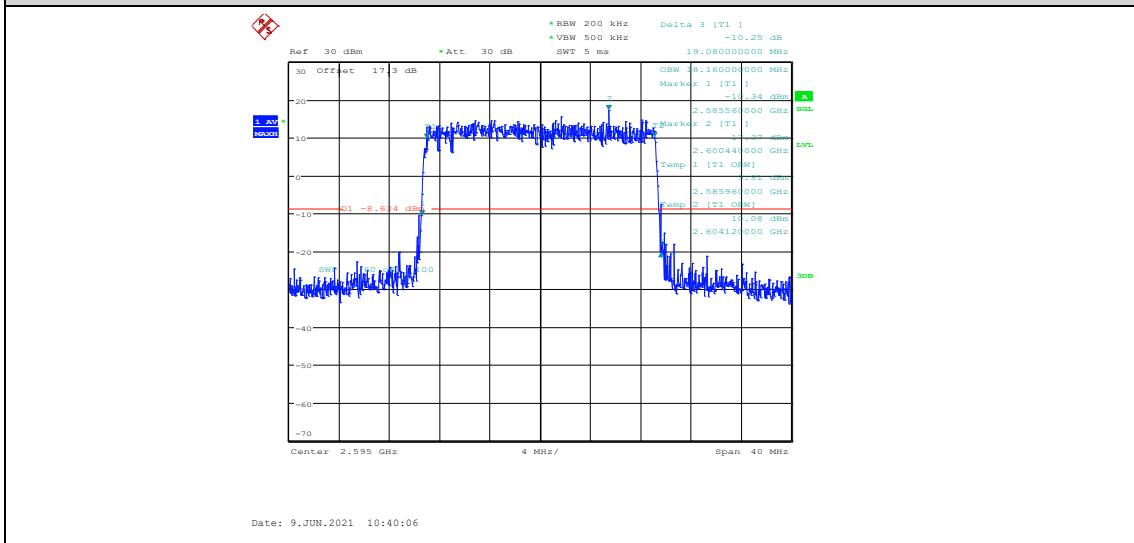


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**NTNV-N38-30kHz-20MHz-CP-16QAM-Mid-Outer\_Full---PASS**

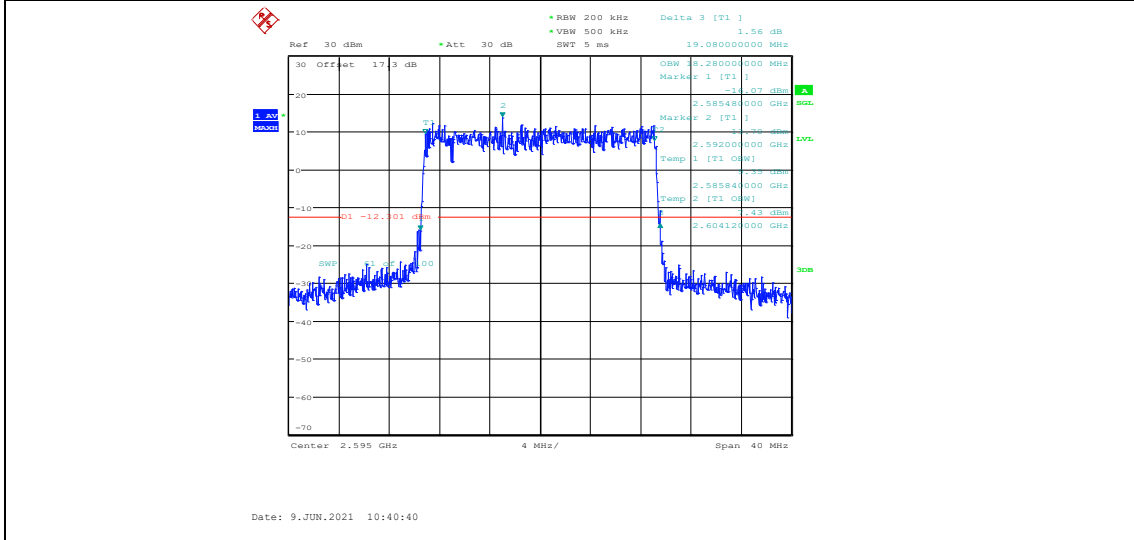


**NTNV-N38-30kHz-20MHz-CP-64QAM-Mid-Outer\_Full---PASS**

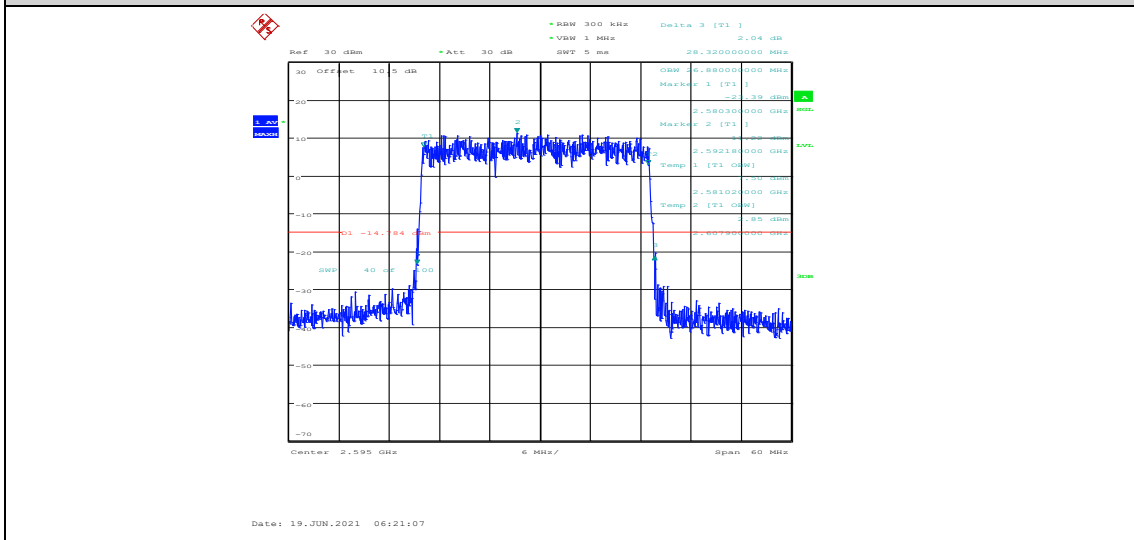


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**NTNV-N38-30kHz-20MHz-CP-256QAM-Mid-Outer\_Full---PASS**



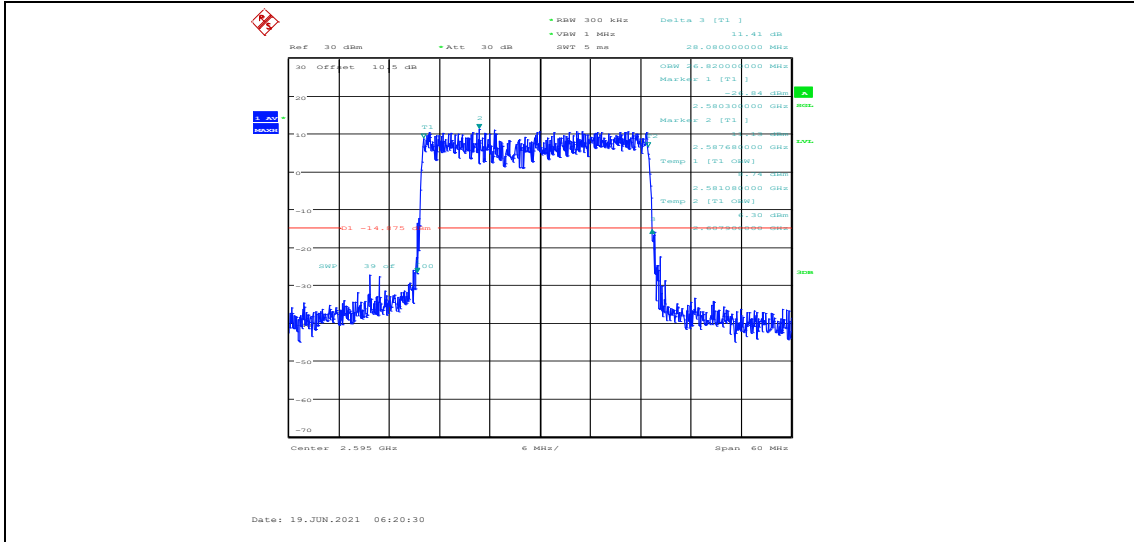
**NTNV-N38-30kHz-30MHz-DFT-PI2BPSK-Mid-Outer\_Full---PASS**



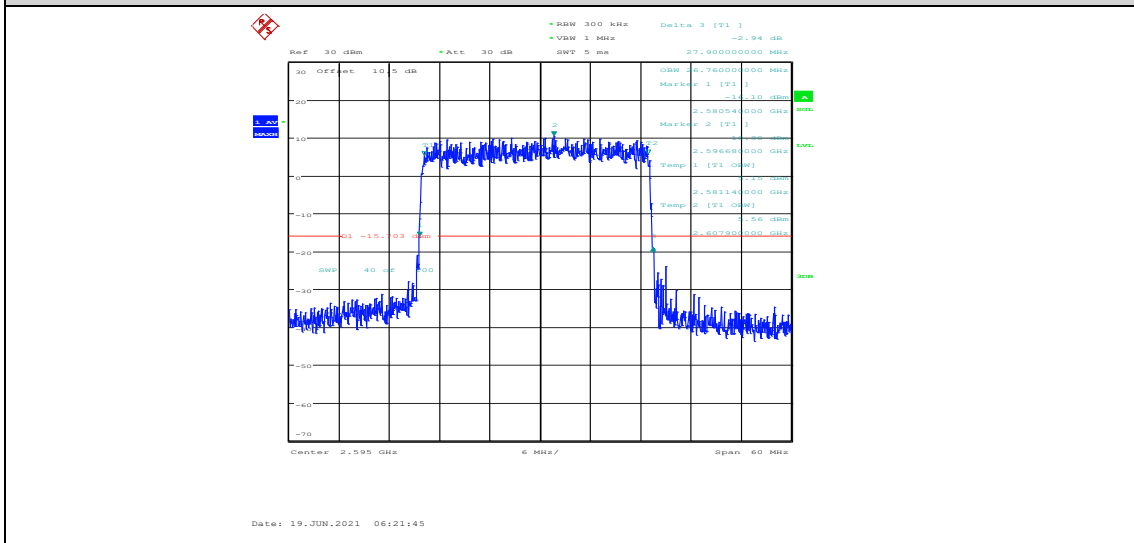
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**NTNV-N38-30kHz-30MHz-DFT-QPSK-Mid-Outer\_Full---PASS**

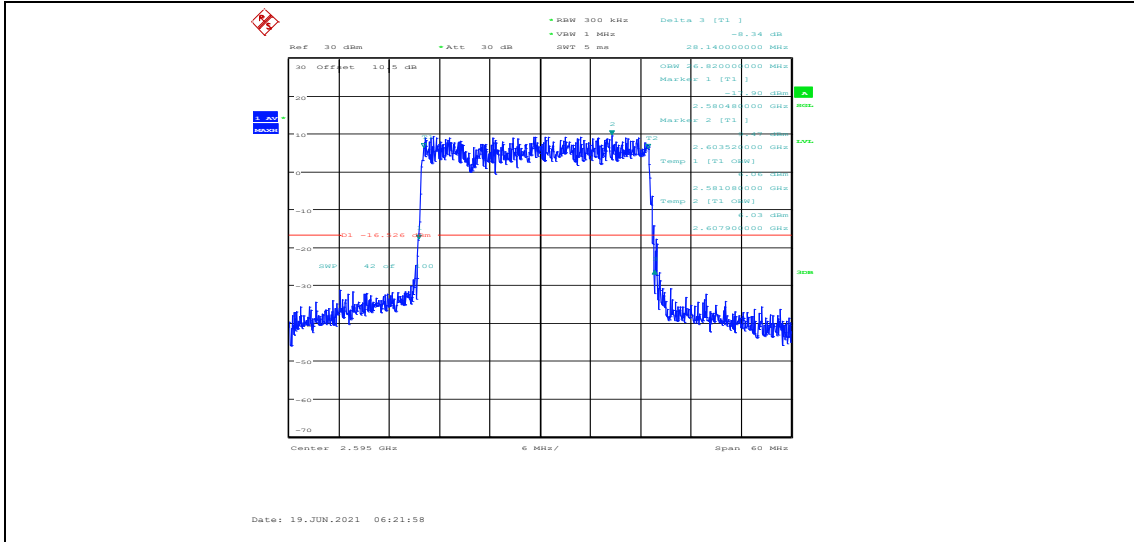


**NTNV-N38-30kHz-30MHz-DFT-16QAM-Mid-Outer\_Full---PASS**

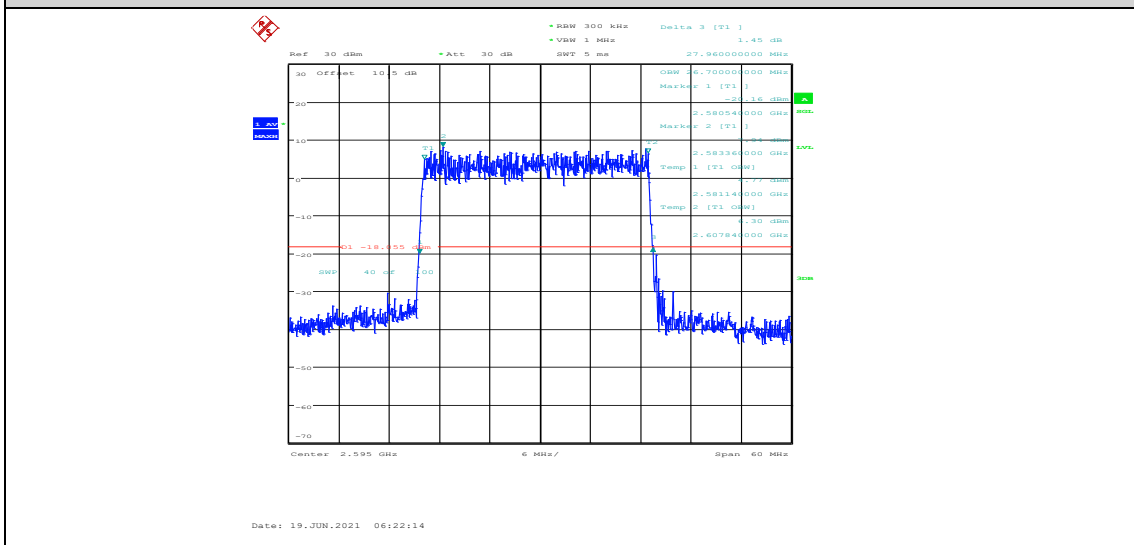


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**NTNV-N38-30kHz-30MHz-DFT-64QAM-Mid-Outer\_Full---PASS**

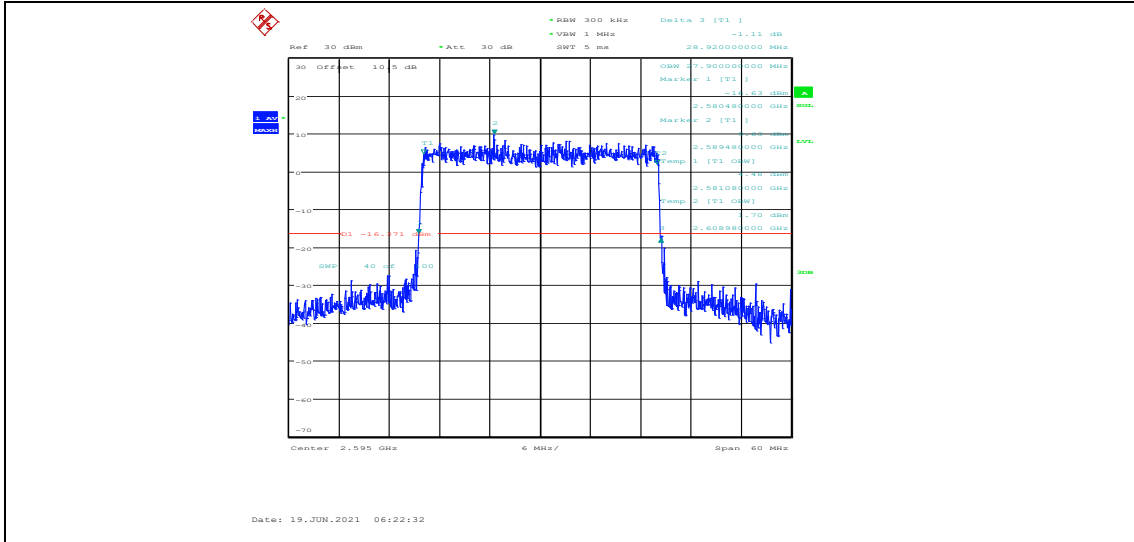


**NTNV-N38-30kHz-30MHz-DFT-256QAM-Mid-Outer\_Full---PASS**

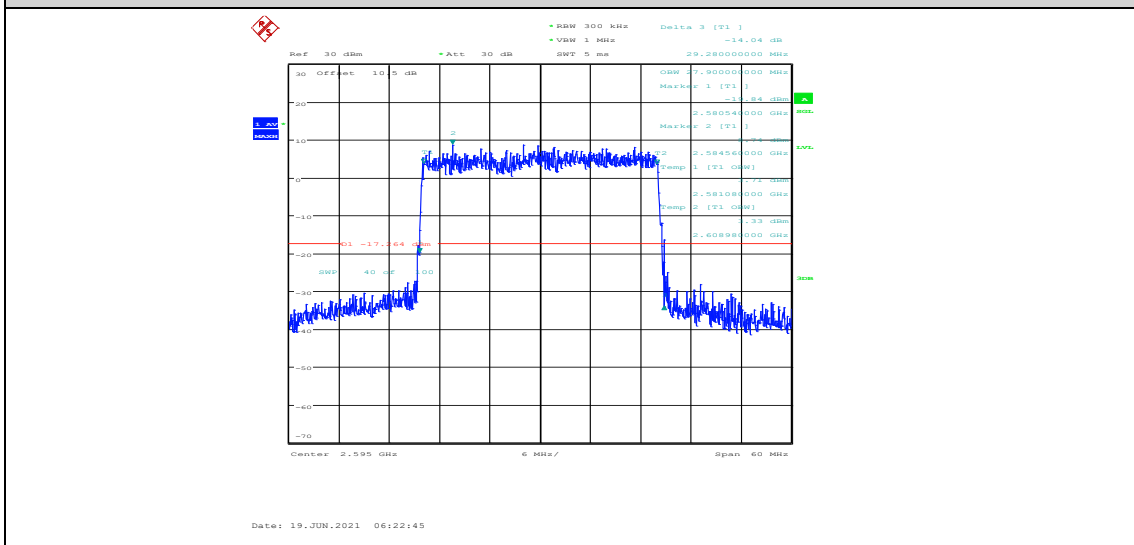


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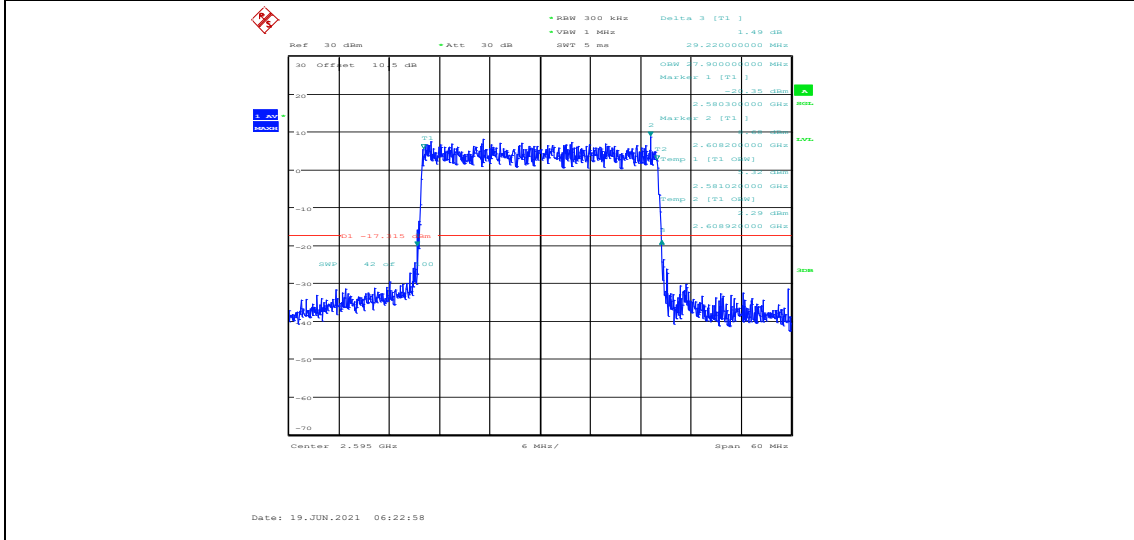


**NTNV-N38-30kHz-30MHz-CP-QPSK-Mid-Outer\_Full---PASS**

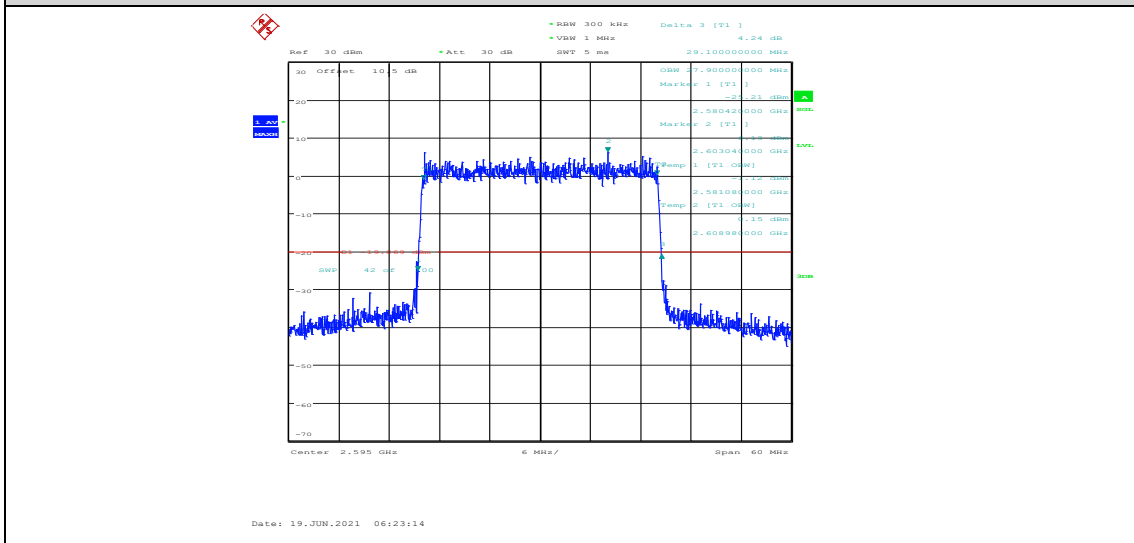


**NTNV-N38-30kHz-30MHz-CP-16QAM-Mid-Outer\_Full---PASS**





**NTNV-N38-30kHz-30MHz-CP-64QAM-Mid-Outer\_Full---PASS**

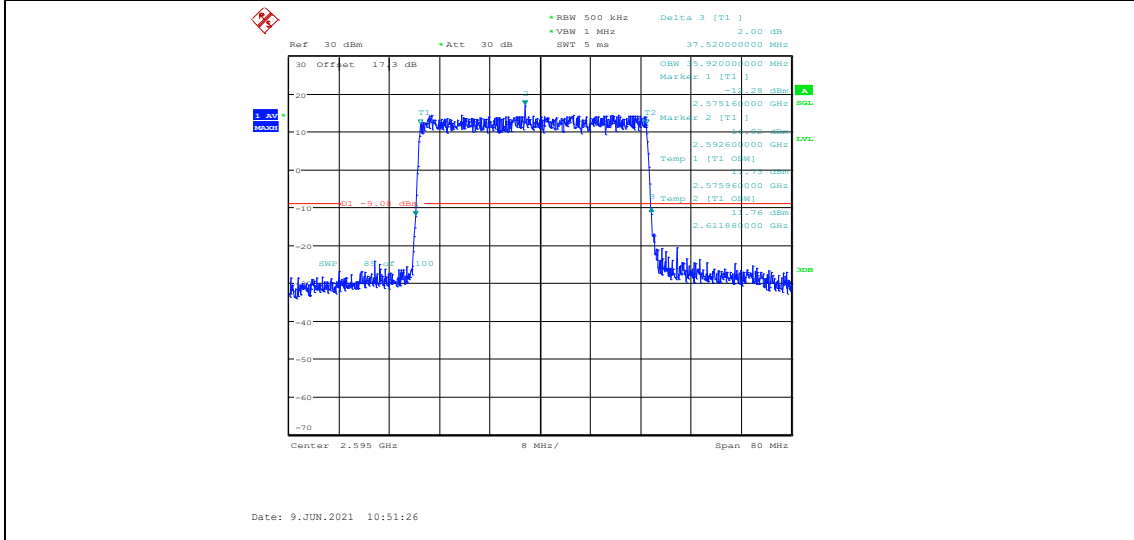


**NTNV-N38-30kHz-30MHz-CP-256QAM-Mid-Outer\_Full---PASS**

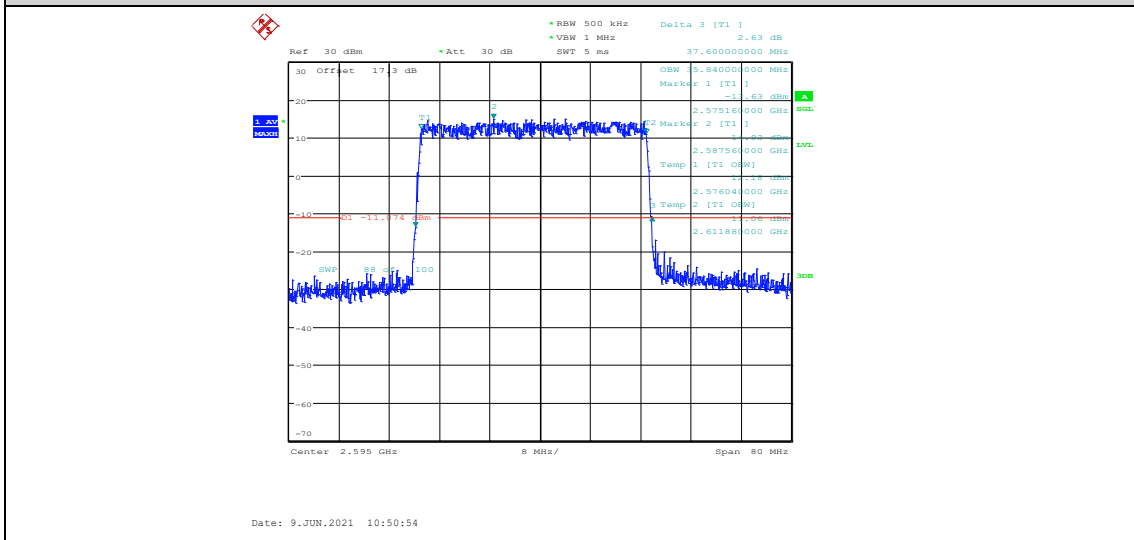


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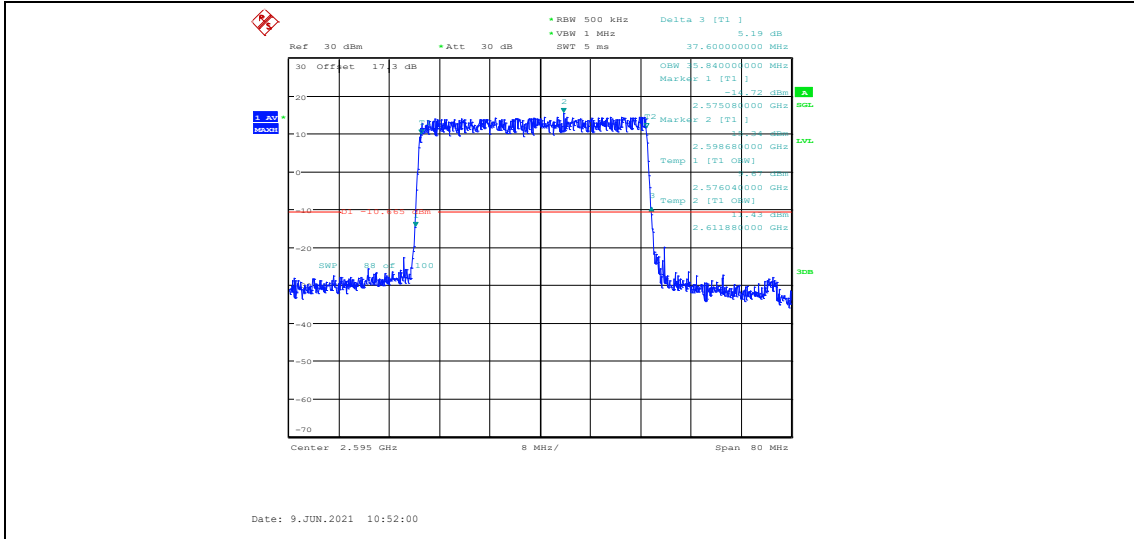


**NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Mid-Outer\_Full---PASS**

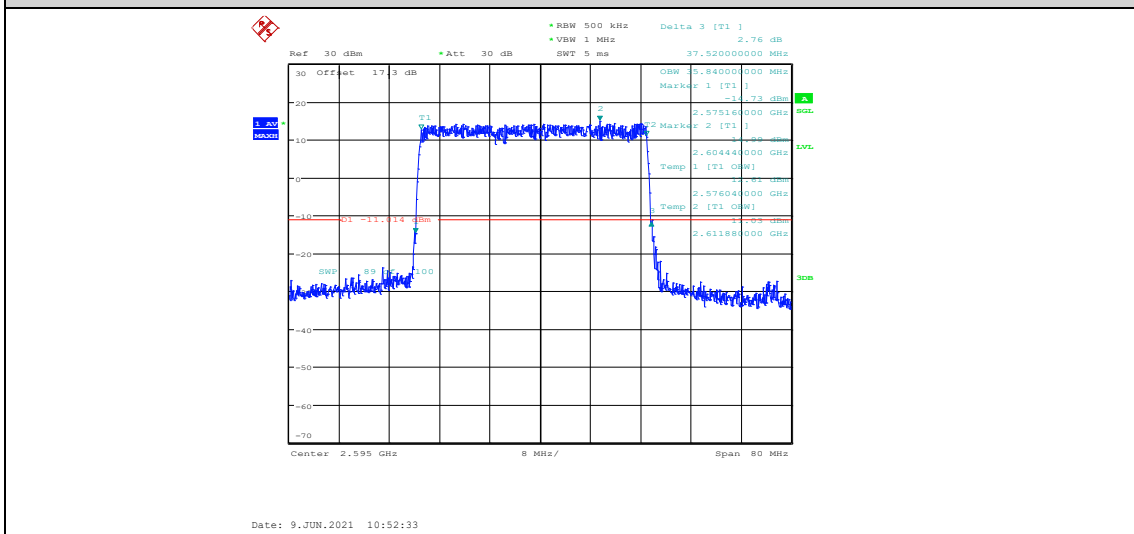


**NTNV-N38-30kHz-40MHz-DFT-QPSK-Mid-Outer\_Full---PASS**





**NTNV-N38-30kHz-40MHz-DFT-16QAM-Mid-Outer\_Full---PASS**

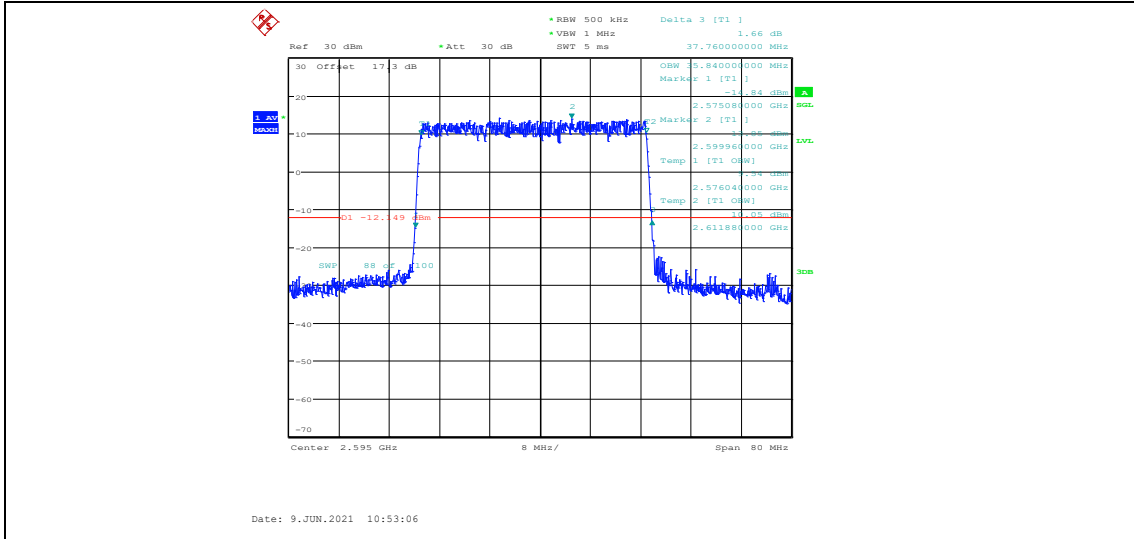


**NTNV-N38-30kHz-40MHz-DFT-64QAM-Mid-Outer\_Full---PASS**

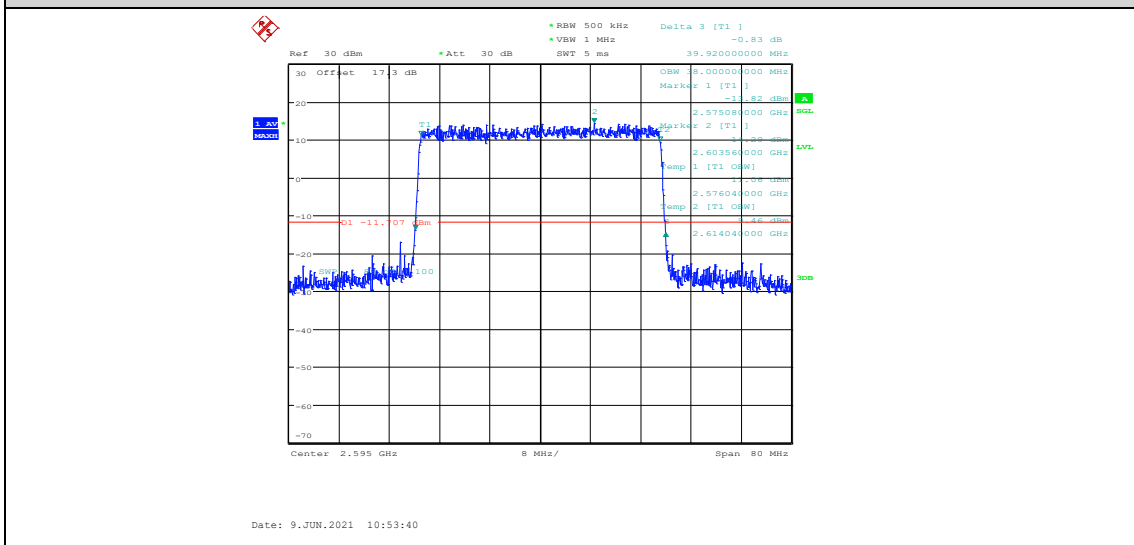


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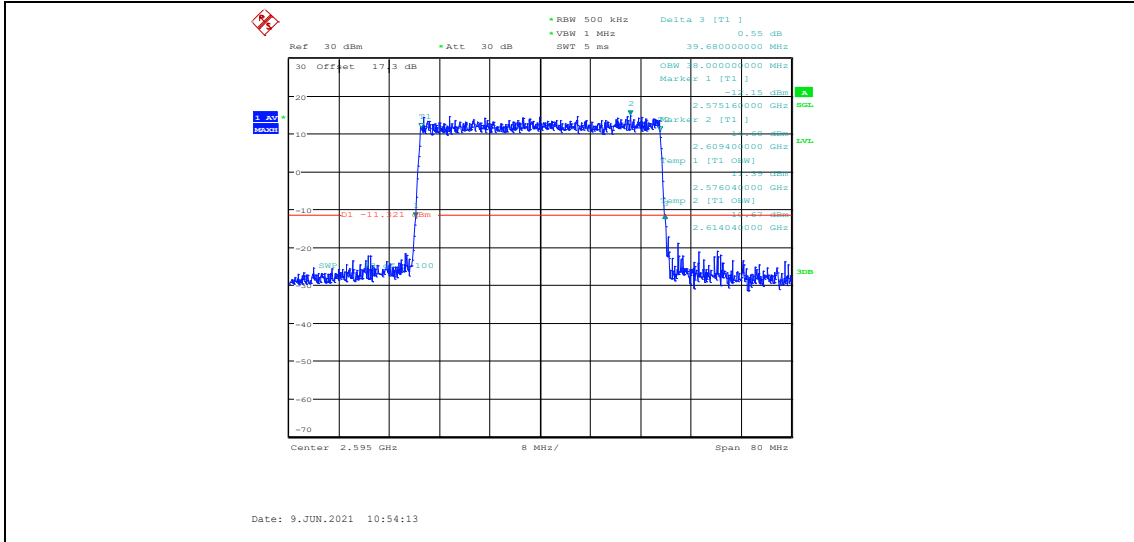


**NTNV-N38-30kHz-40MHz-DFT-256QAM-Mid-Outer\_Full---PASS**

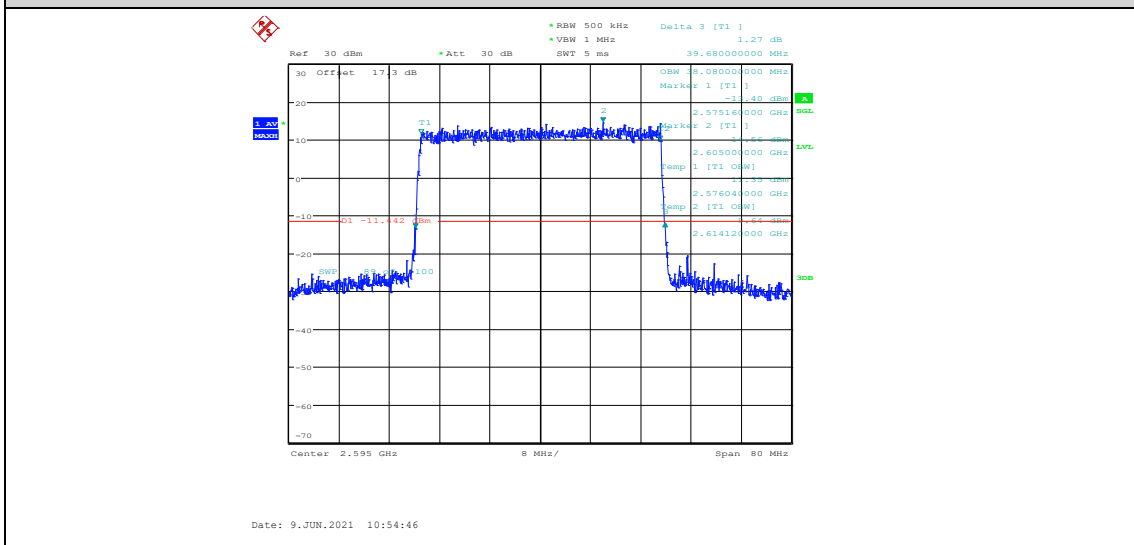


**NTNV-N38-30kHz-40MHz-CP-QPSK-Mid-Outer\_Full---PASS**





**NTNV-N38-30kHz-40MHz-CP-16QAM-Mid-Outer\_Full---PASS**



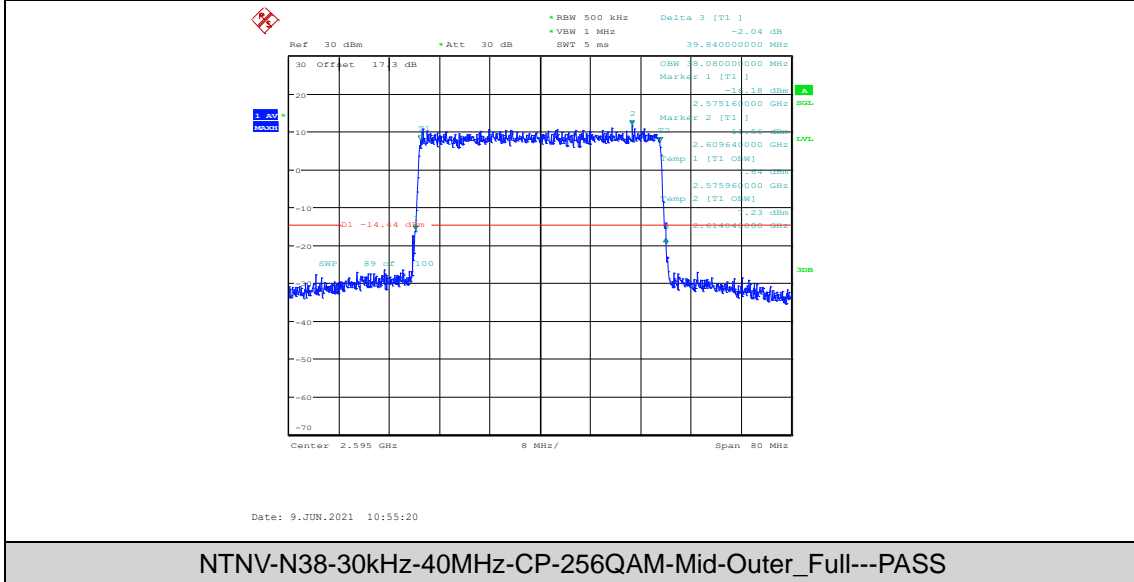
**NTNV-N38-30kHz-40MHz-CP-64QAM-Mid-Outer\_Full---PASS**



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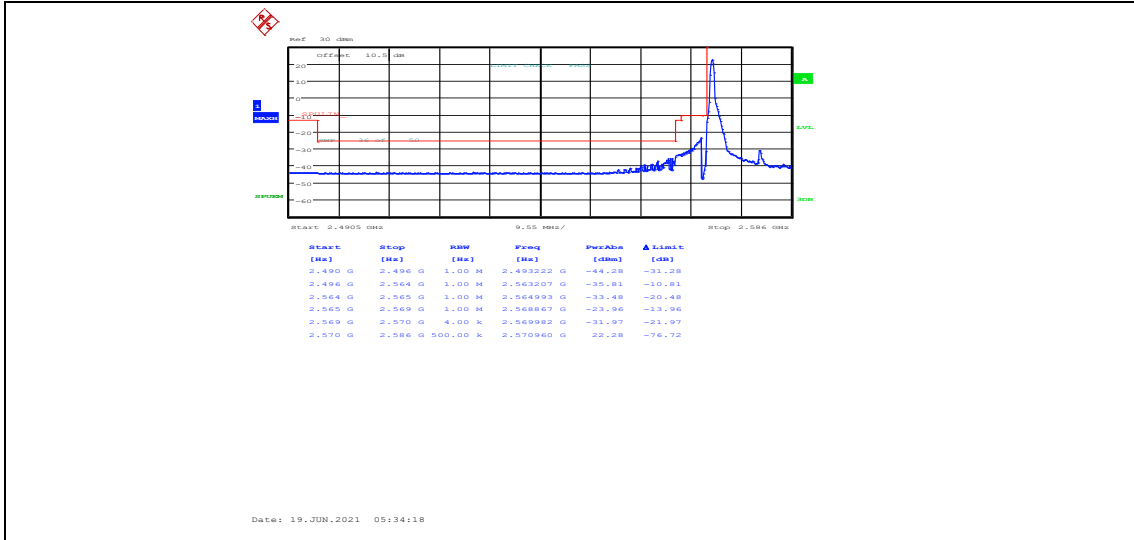
Remark: All antenna and all modulation had been tested, but only the worst case data displayed in this report.



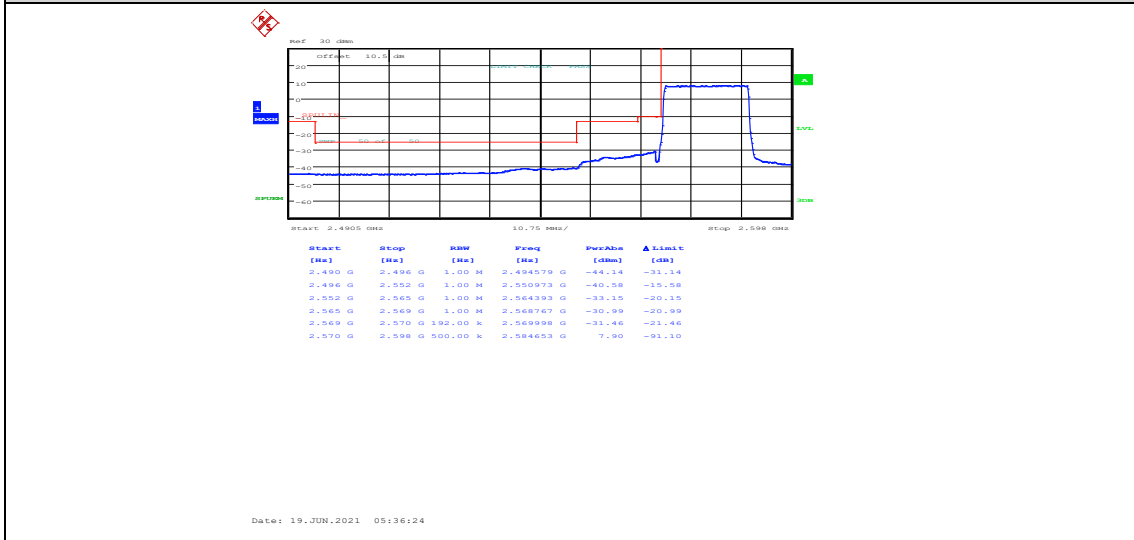
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## Band Edge for SA

### Test Graphs



NTNV-N38-30kHz-20MHz-DFT-BPSK-Low-Edge\_1RB\_Left-----see graph-PASS

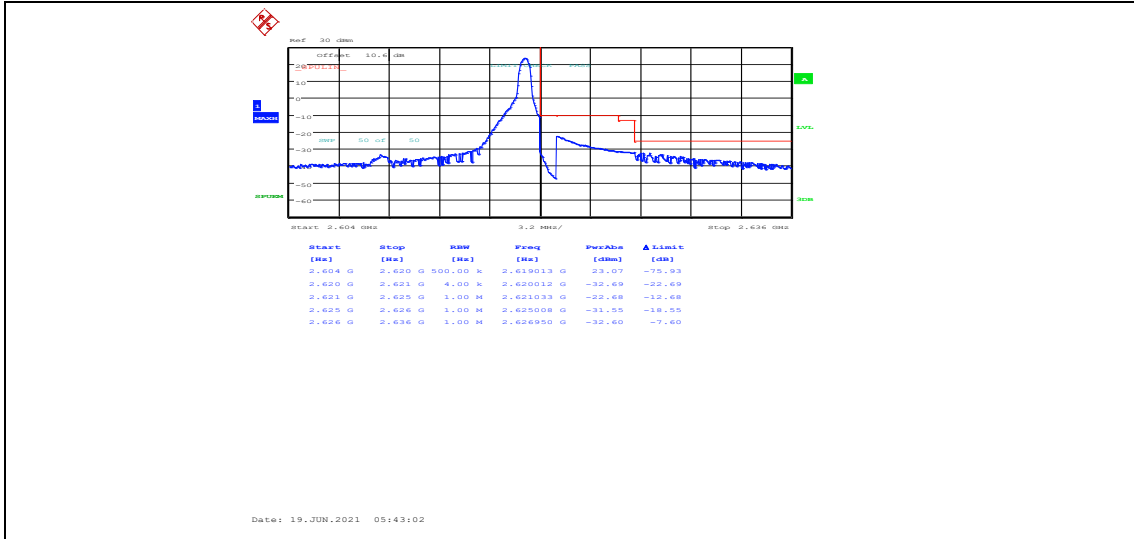


NTNV-N38-30kHz-20MHz-DFT-BPSK-Low-Outer\_Full-----see graph-PASS

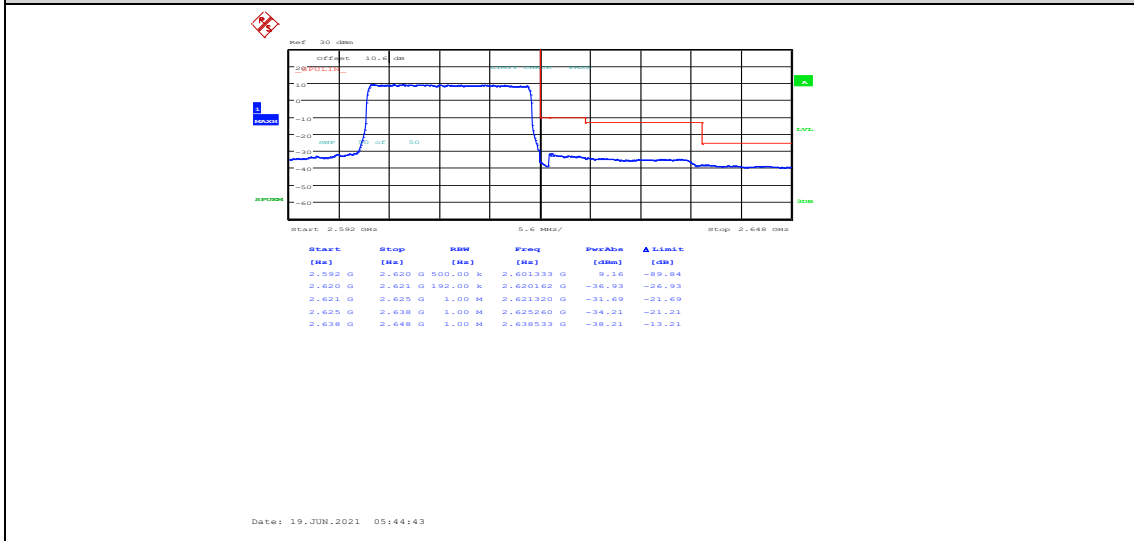


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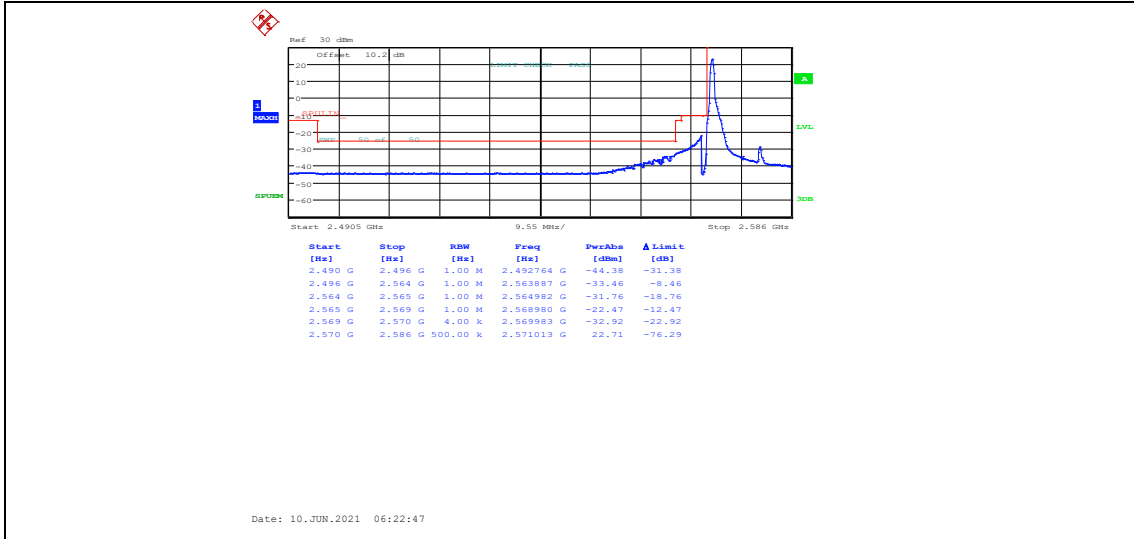


NTNV-N38-30kHz-20MHz-DFT-BPSK-High-Edge\_1RB\_Right-----see graph-PASS

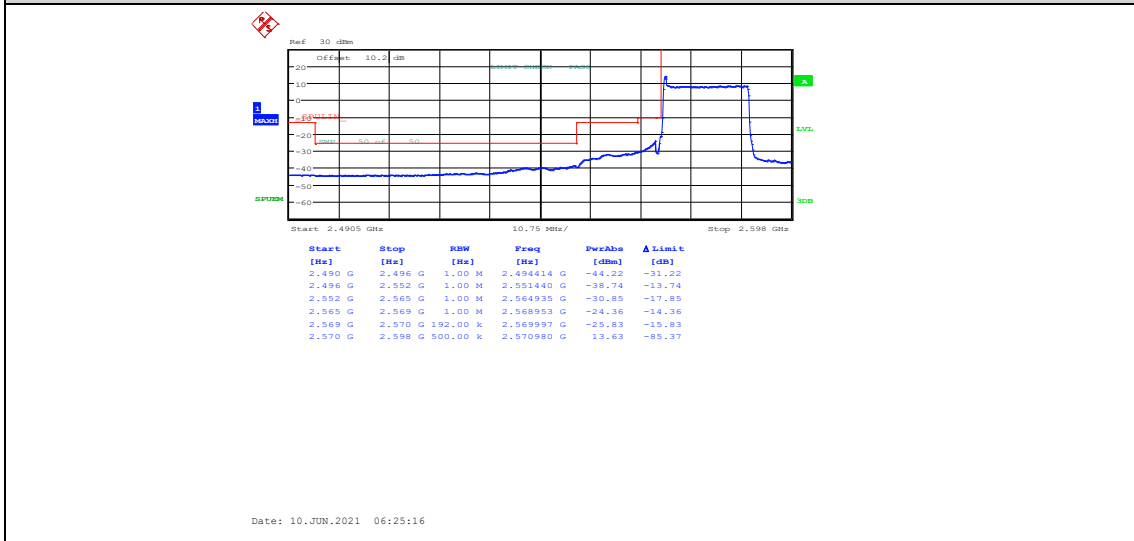


NTNV-N38-30kHz-20MHz-DFT-BPSK-High-Outer\_Full-----see graph-PASS





NTNV-N38-30kHz-20MHz-DFT-QPSK-Low-Edge\_1RB\_Left-----see graph-PASS



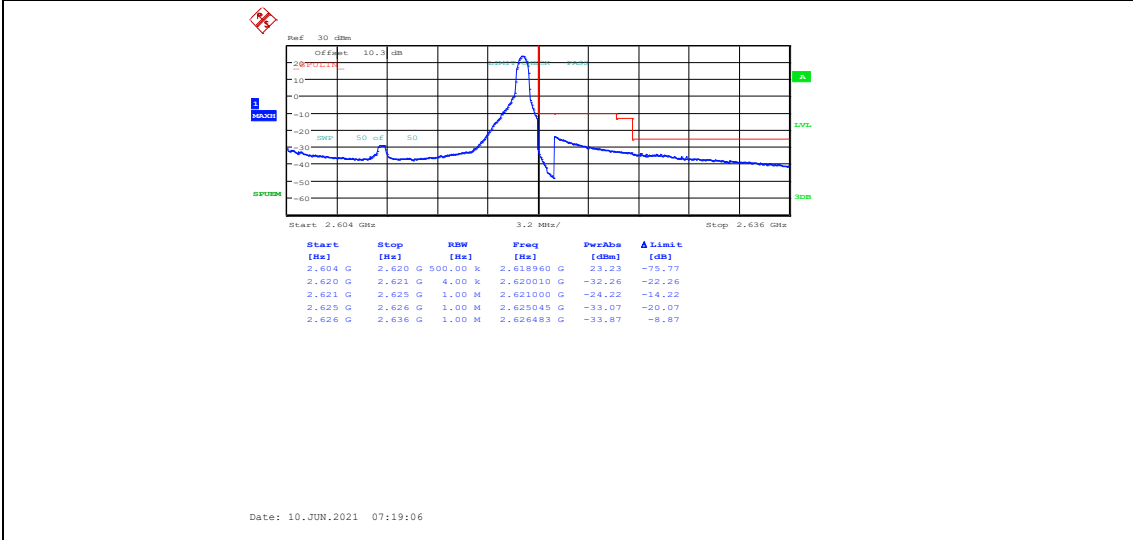
NTNV-N38-30kHz-20MHz-DFT-QPSK-Low-Outer\_Full-----see graph-PASS



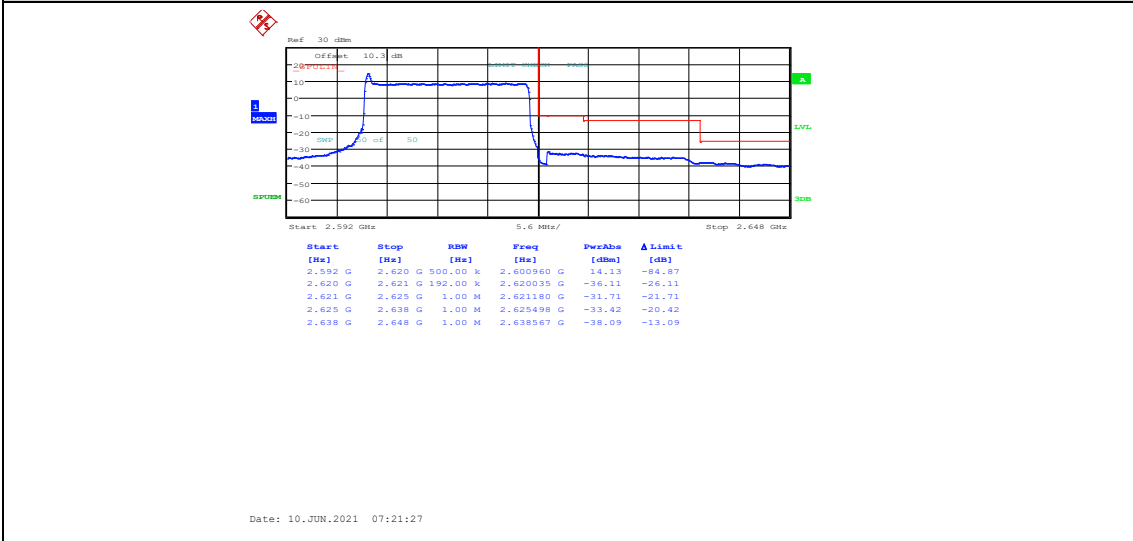
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NTNV-N38-30kHz-20MHz-DFT-QPSK-High-Edge\_1RB\_Right-----see graph-PASS

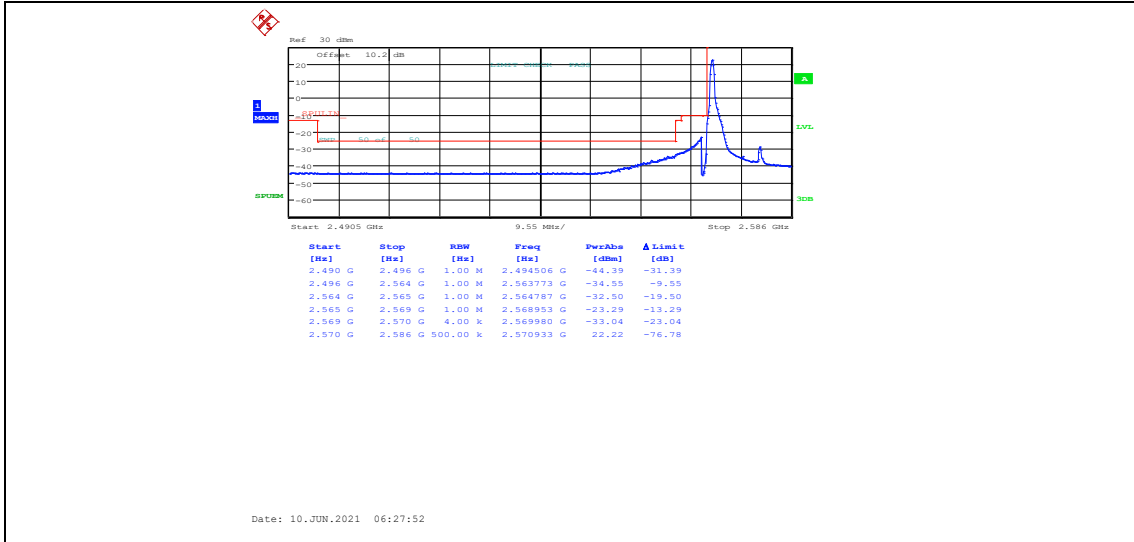


NTNV-N38-30kHz-20MHz-DFT-QPSK-High-Outer\_Full-----see graph-PASS

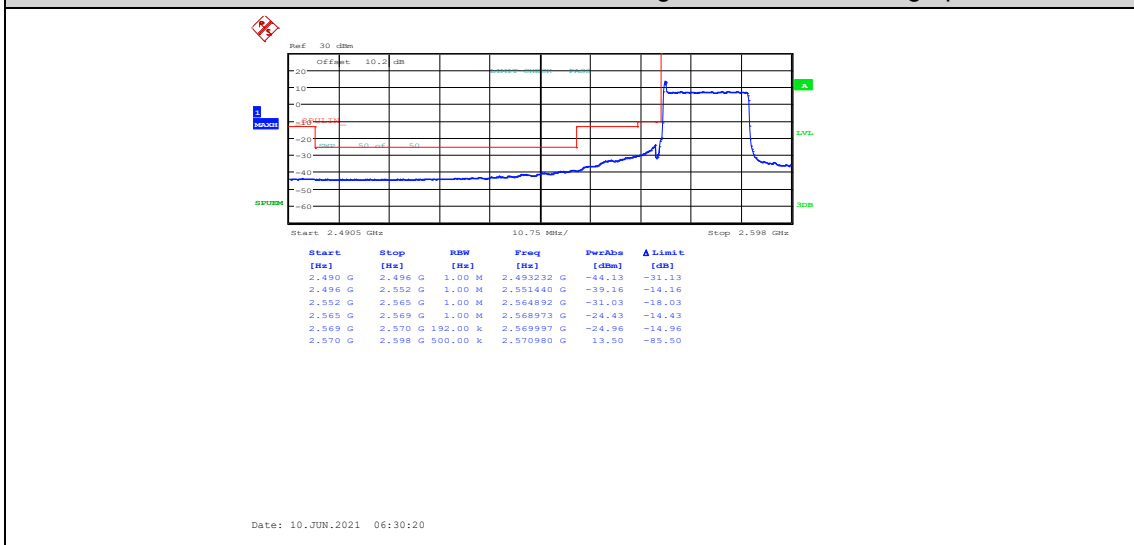


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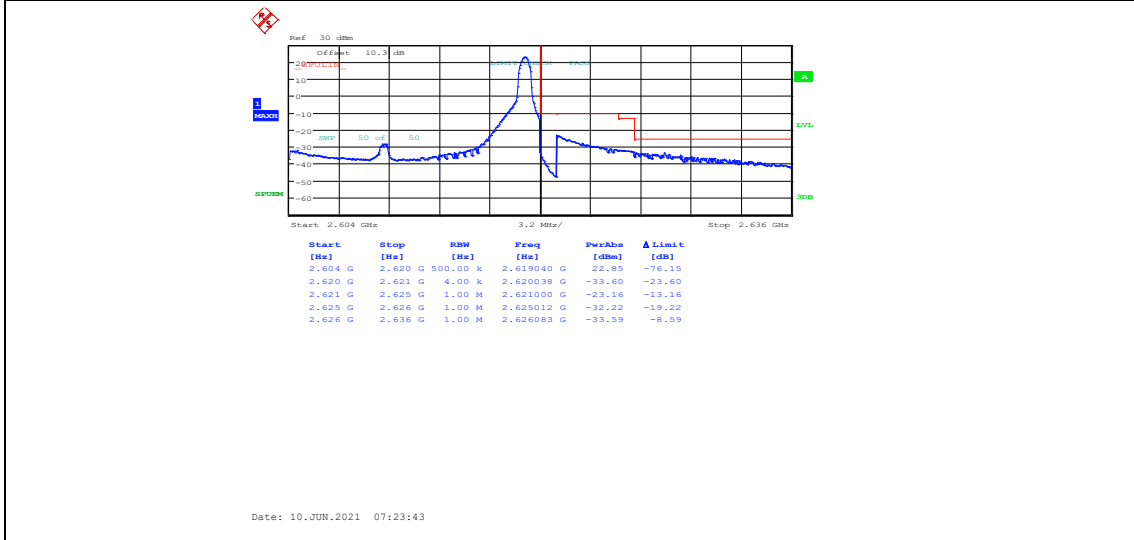
NTNV-N38-30kHz-20MHz-DFT-16QAM-Low-Edge\_1RB\_Left-----see graph-PASS



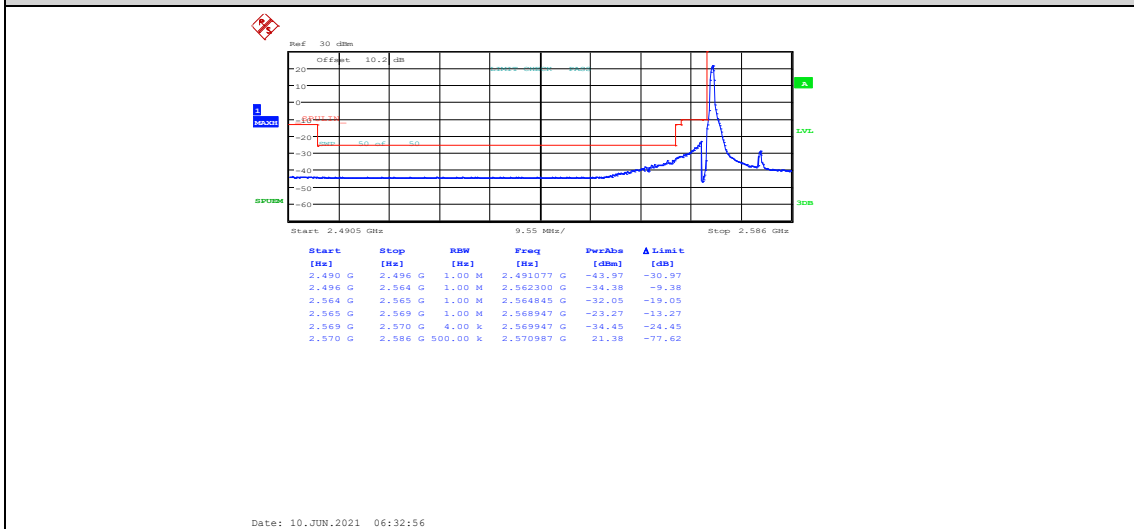
NTNV-N38-30kHz-20MHz-DFT-16QAM-Low-Outer\_Full-----see graph-PASS



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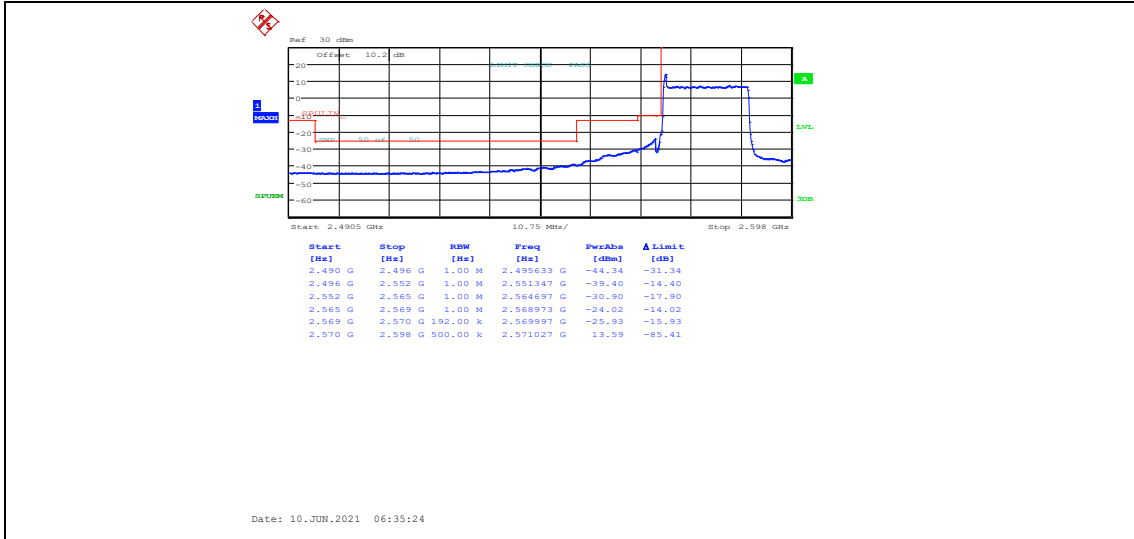
NTNV-N38-30kHz-20MHz-DFT-16QAM-High-Edge\_1RB\_Right-----see graph-PASS



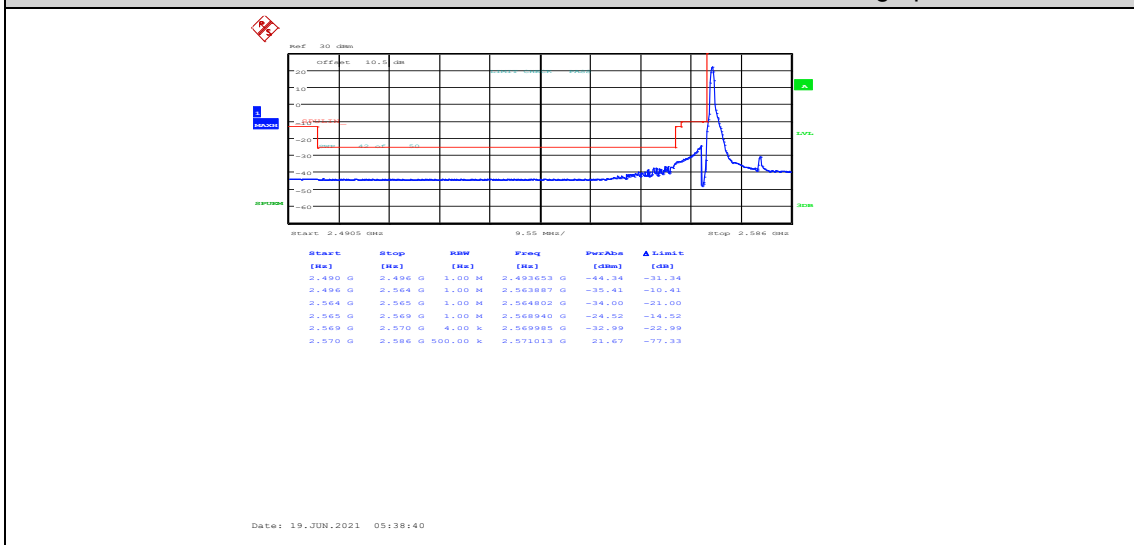
NTNV-N38-30kHz-20MHz-DFT-64QAM-Low-Edge\_1RB\_Left-----see graph-PASS



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NTNV-N38-30kHz-20MHz-DFT-64QAM-Low-Outer\_Full-----see graph-PASS



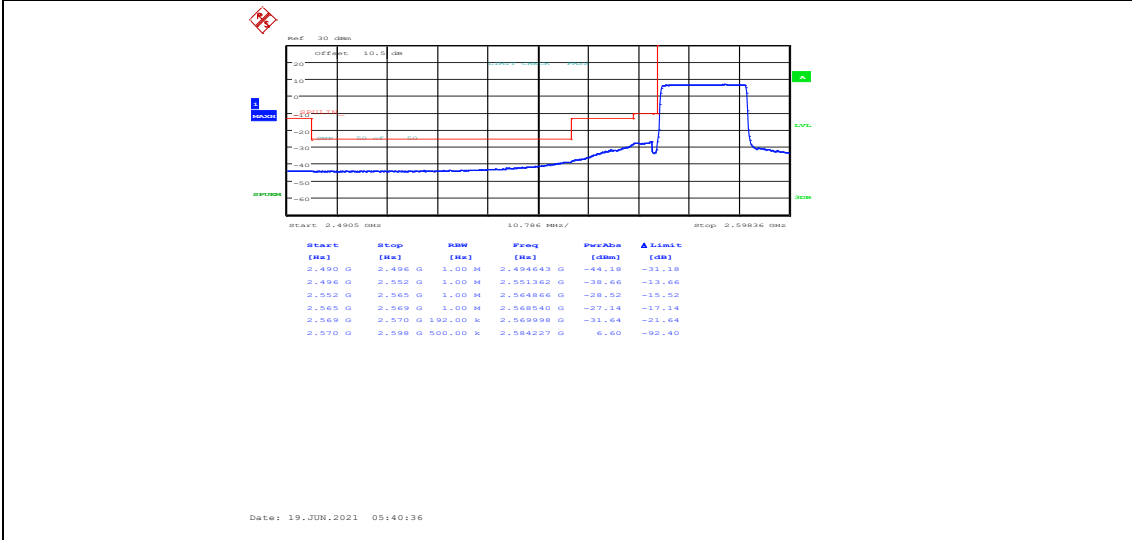
NTNV-N38-30kHz-20MHz-CP-QPSK-Low-Edge\_1RB\_Left-----see graph-PASS



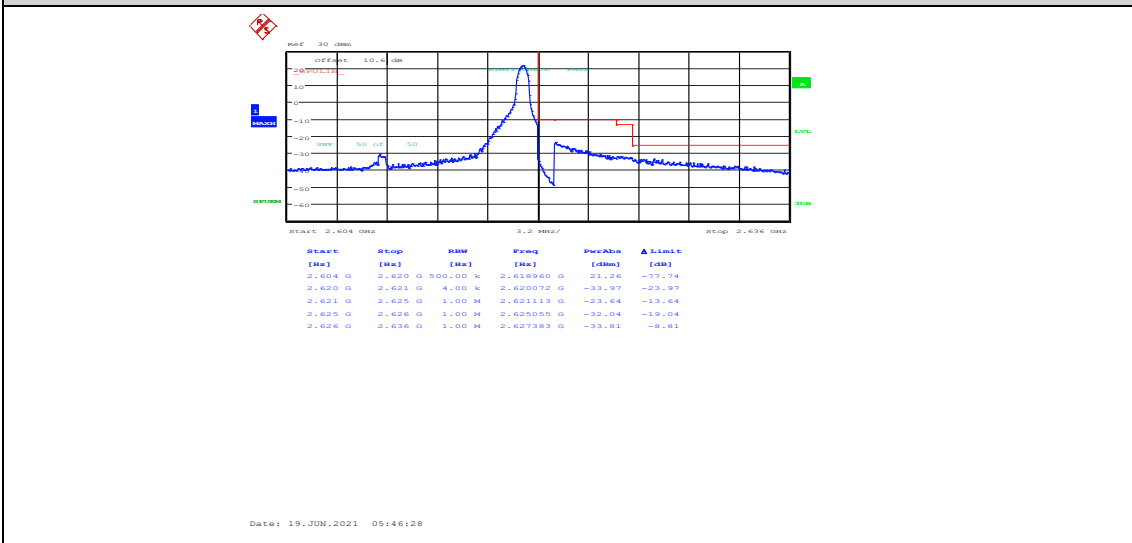
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NTNV-N38-30kHz-20MHz-CP-QPSK-Low-Outer\_Full-----see graph-PASS

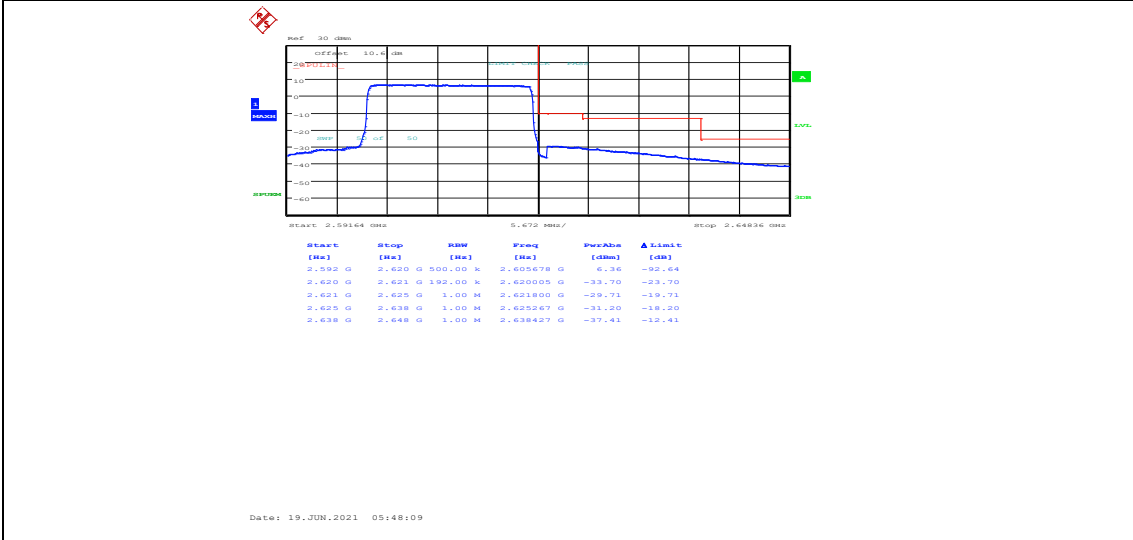


NTNV-N38-30kHz-20MHz-CP-QPSK-High-Edge\_1RB\_Right-----see graph-PASS

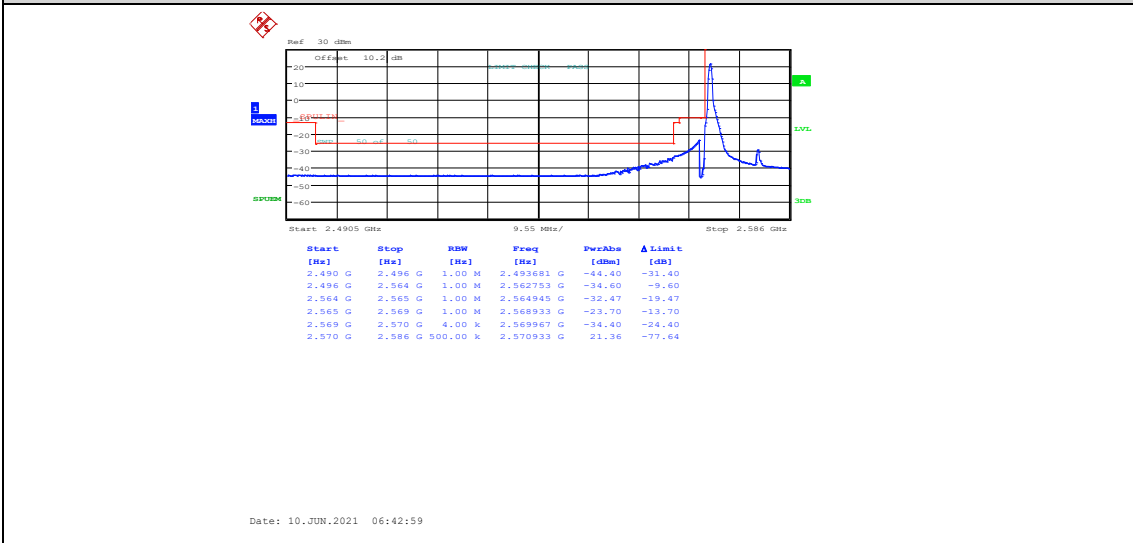


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NTNV-N38-30kHz-20MHz-CP-QPSK-High-Outer\_Full-----see graph-PASS



NTNV-N38-30kHz-20MHz-CP-16QAM-Low-Edge\_1RB\_Left-----see graph-PASS



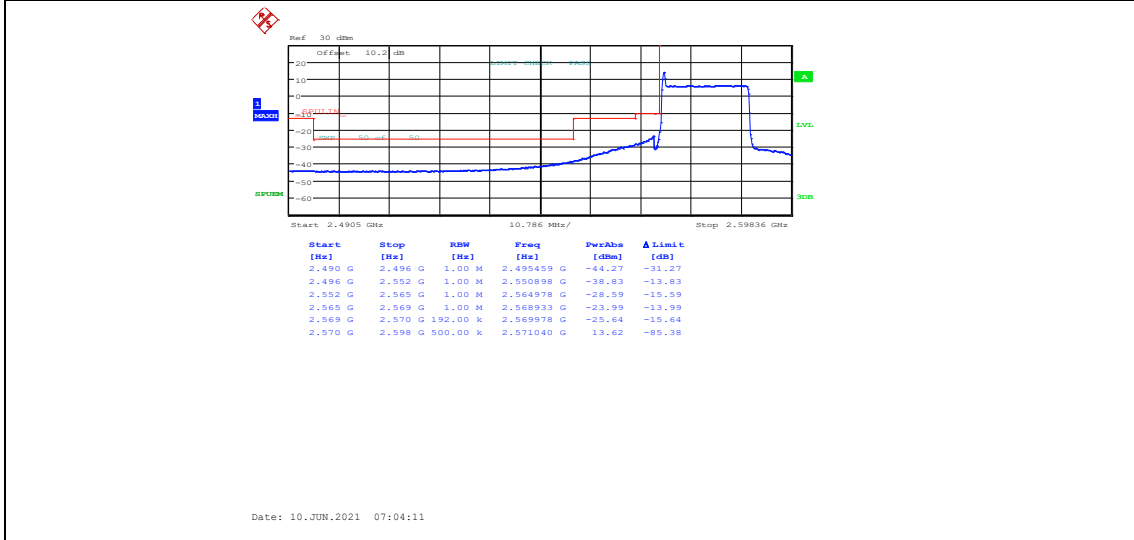
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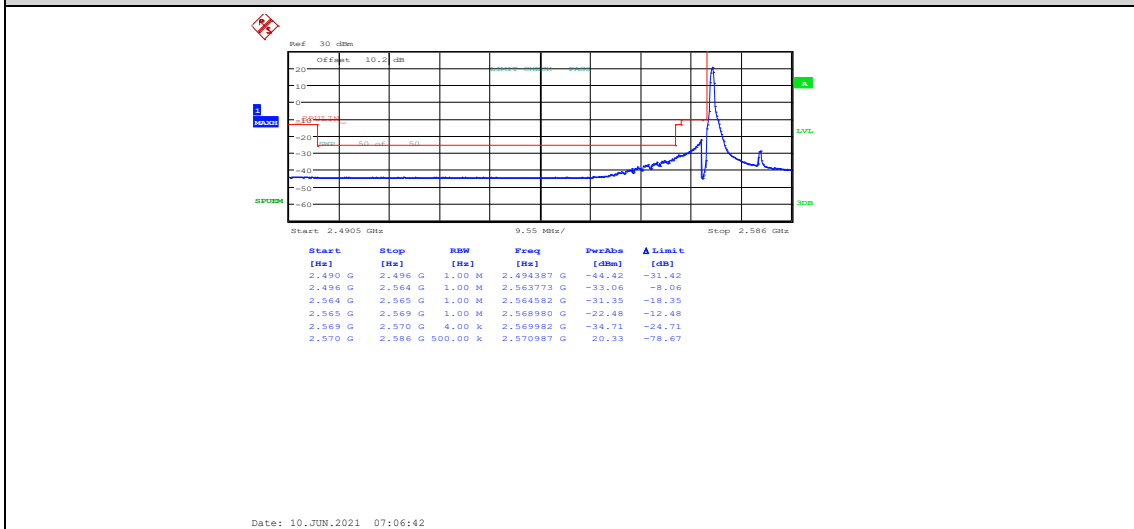
SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.  
Wireless Laboratory

1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086  
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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t (86-29) 6282 7885 sgs.china@sgs.com



NTNV-N38-30kHz-20MHz-CP-16QAM-Low-Outer\_Full-----see graph-PASS

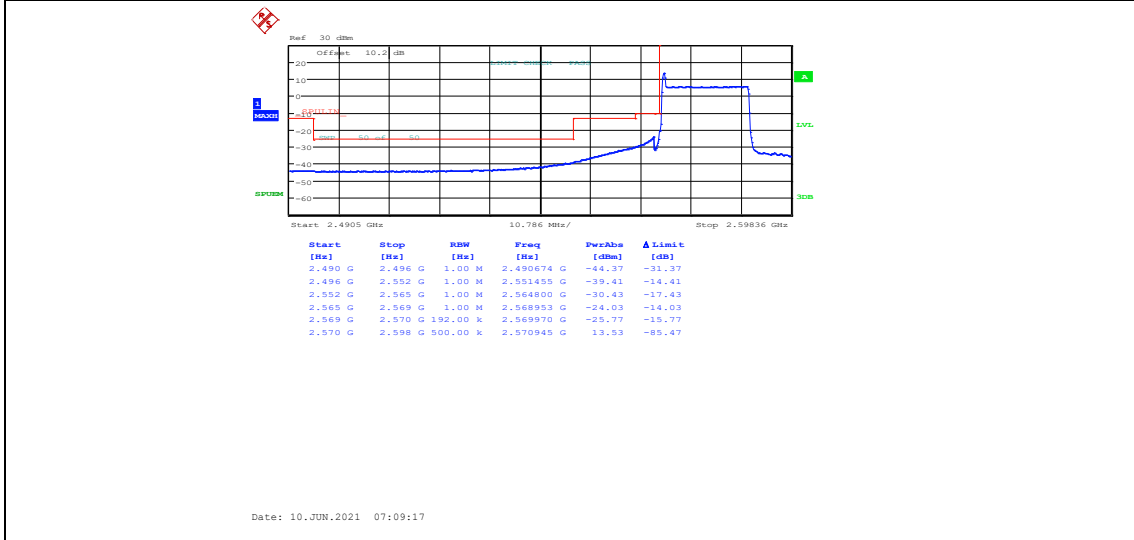


NTNV-N38-30kHz-20MHz-CP-64QAM-Low-Edge\_1RB\_Left-----see graph-PASS

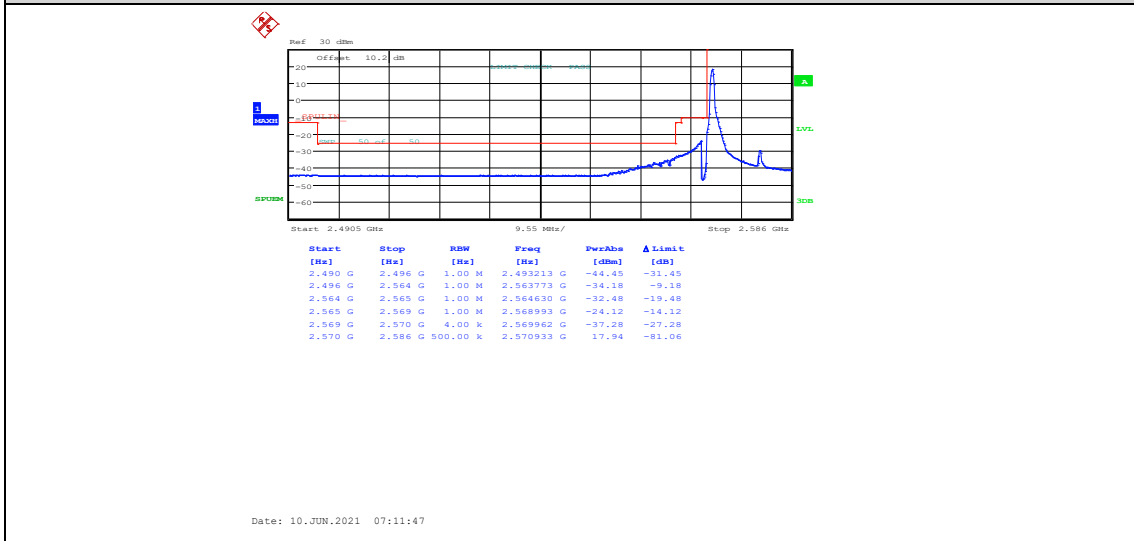


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 t (86-29) 6282 7885 www.sgs.com  
 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com



NTNV-N38-30kHz-20MHz-CP-64QAM-Low-Outer\_Full-----see graph-PASS

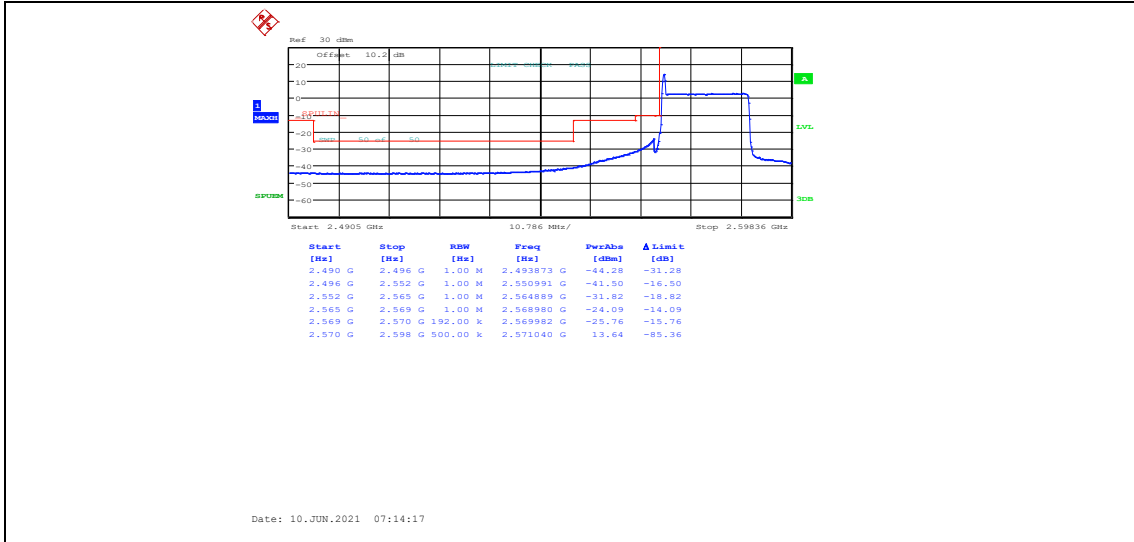


NTNV-N38-30kHz-20MHz-CP-256QAM-Low-Edge\_1RB\_Left-----see graph-PASS

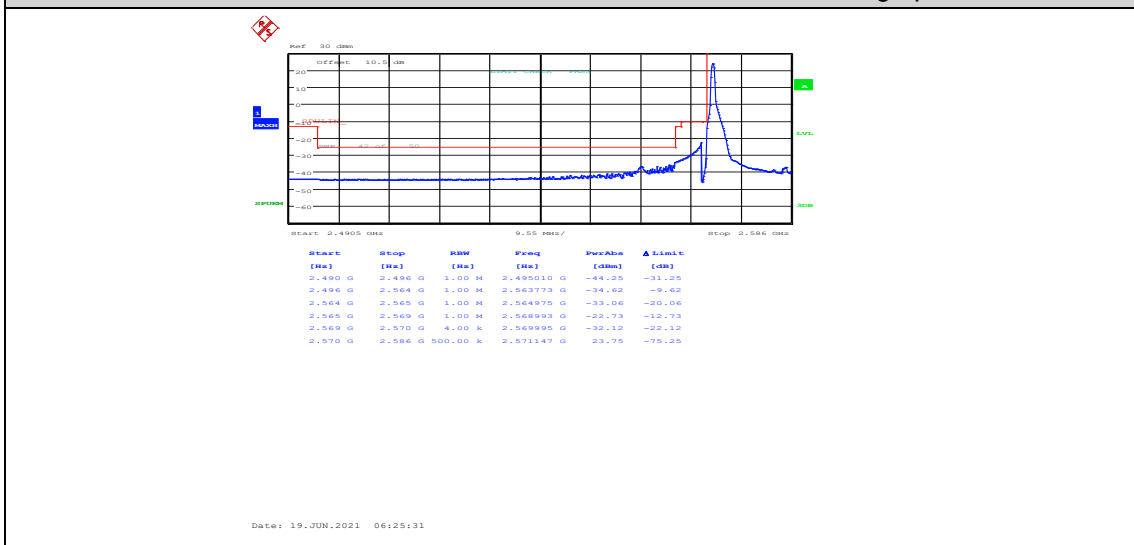


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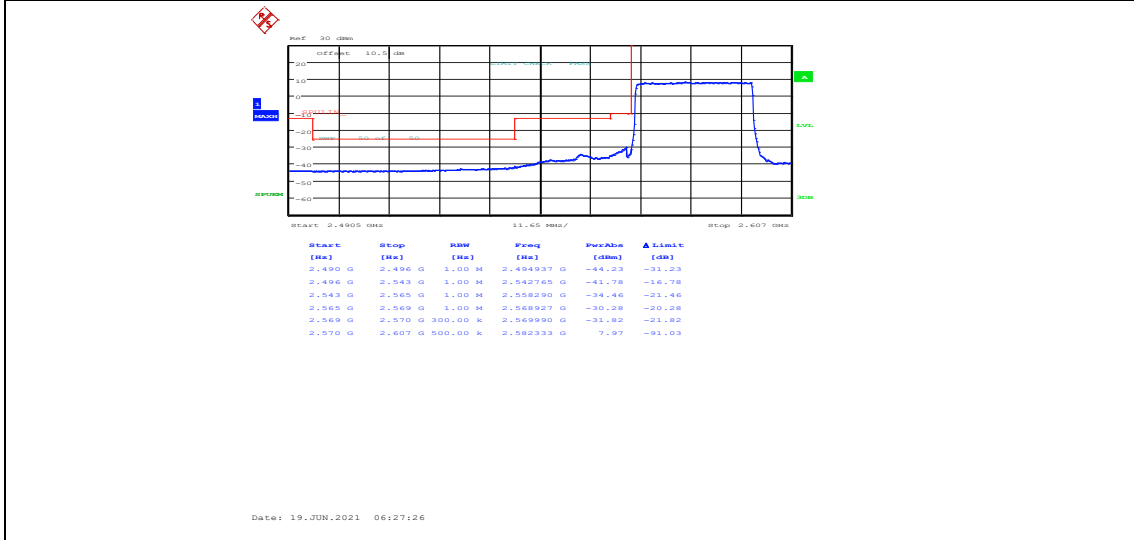
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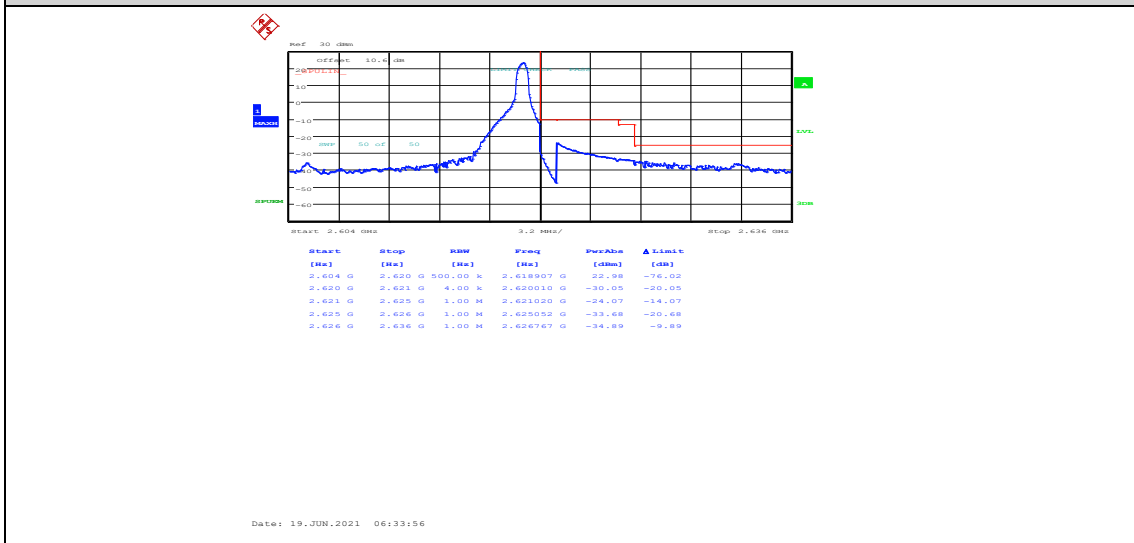
NTNV-N38-30kHz-30MHz-DFT-BPSK-Low-Edge\_1RB\_Left-----see graph-PASS



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NTNV-N38-30kHz-30MHz-DFT-BPSK-Low-Outer\_Full-----see graph-PASS

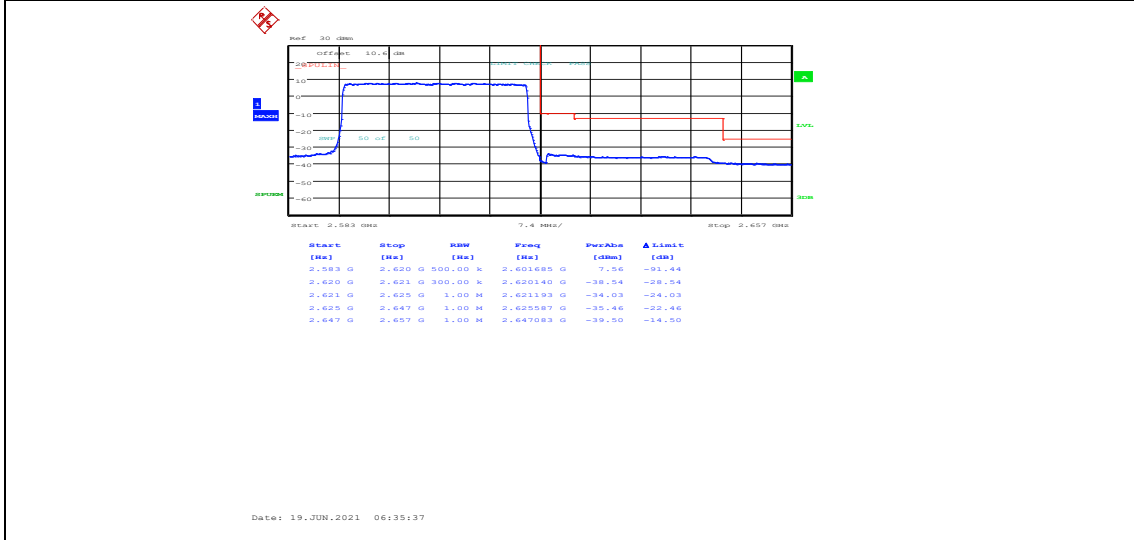


NTNV-N38-30kHz-30MHz-DFT-BPSK-High-Edge\_1RB\_Right-----see graph-PASS

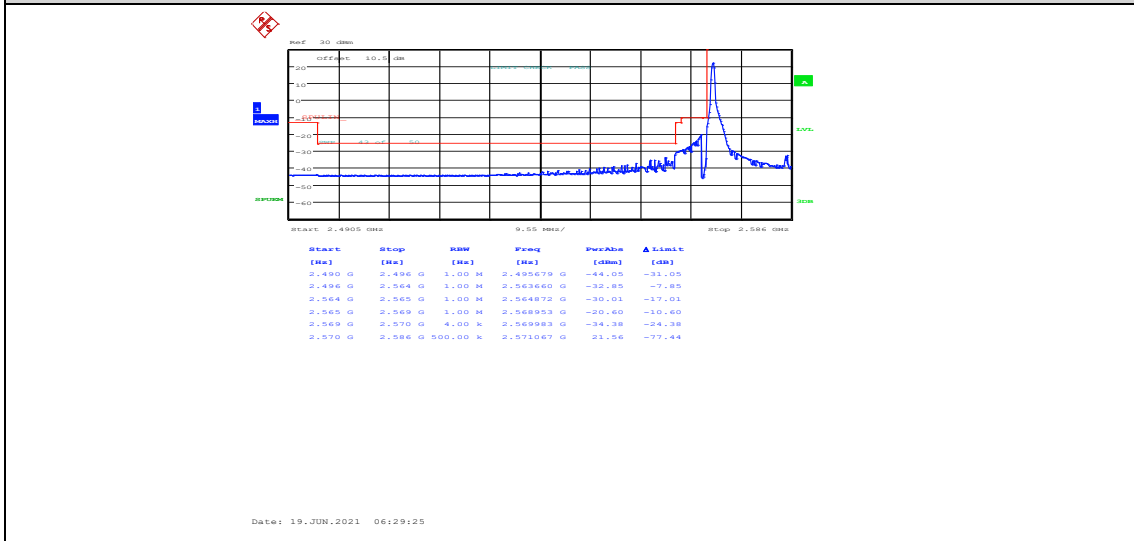


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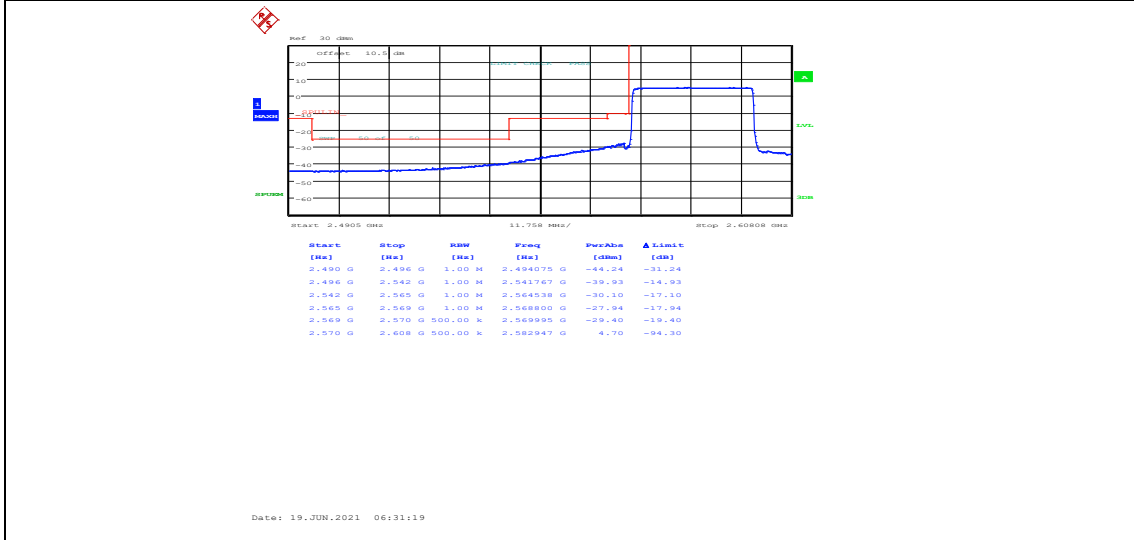


NTNV-N38-30kHz-30MHz-DFT-BPSK-High-Outer\_Full-----see graph-PASS

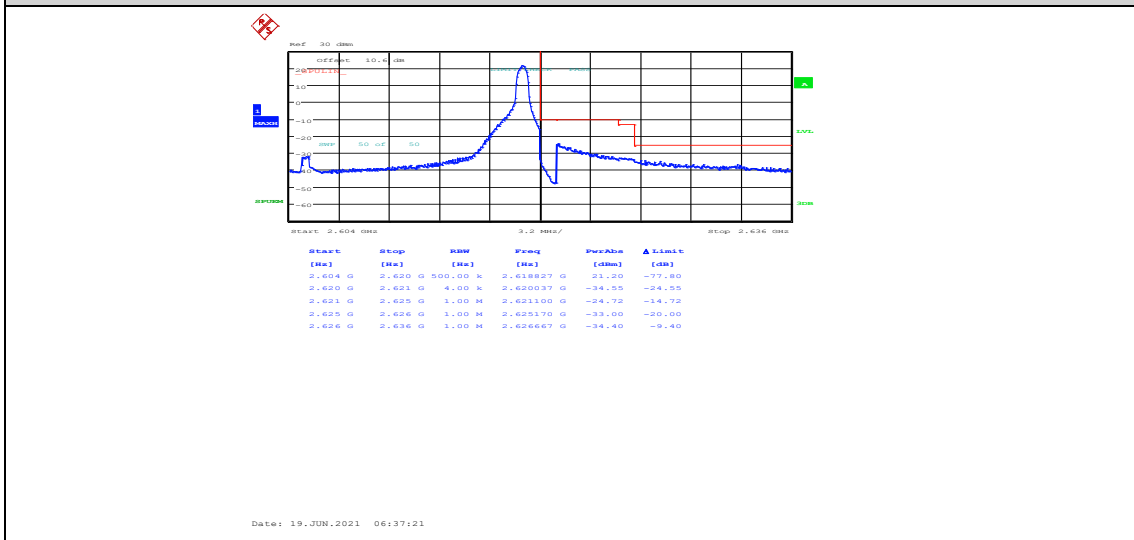


NTNV-N38-30kHz-30MHz-CP-QPSK-Low-Edge\_1RB\_Left-----see graph-PASS





NTNV-N38-30kHz-30MHz-CP-QPSK-Low-Outer\_Full-----see graph-PASS



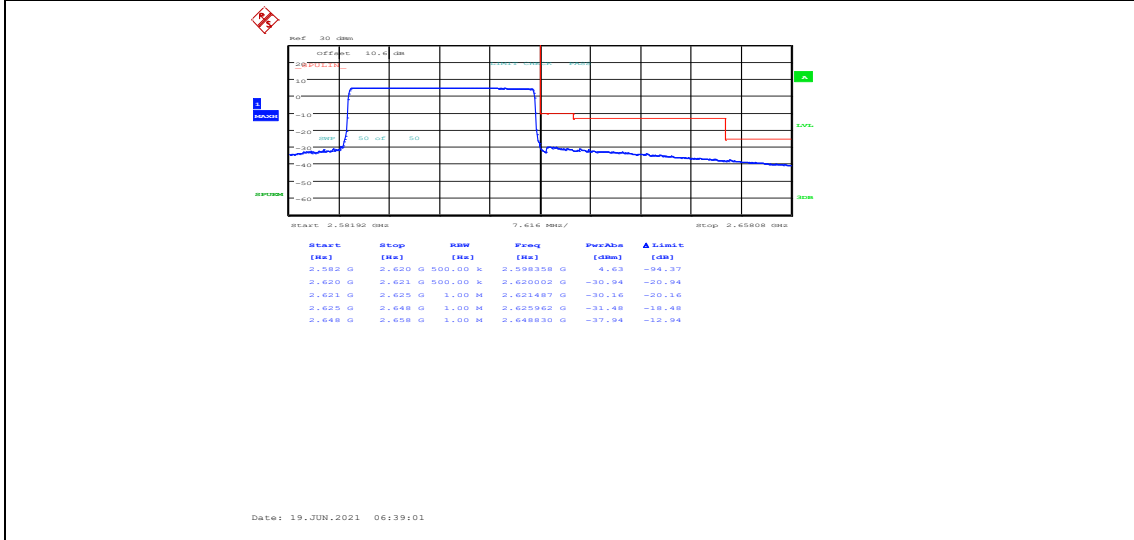
NTNV-N38-30kHz-30MHz-CP-QPSK-High-Edge\_1RB\_Right-----see graph-PASS



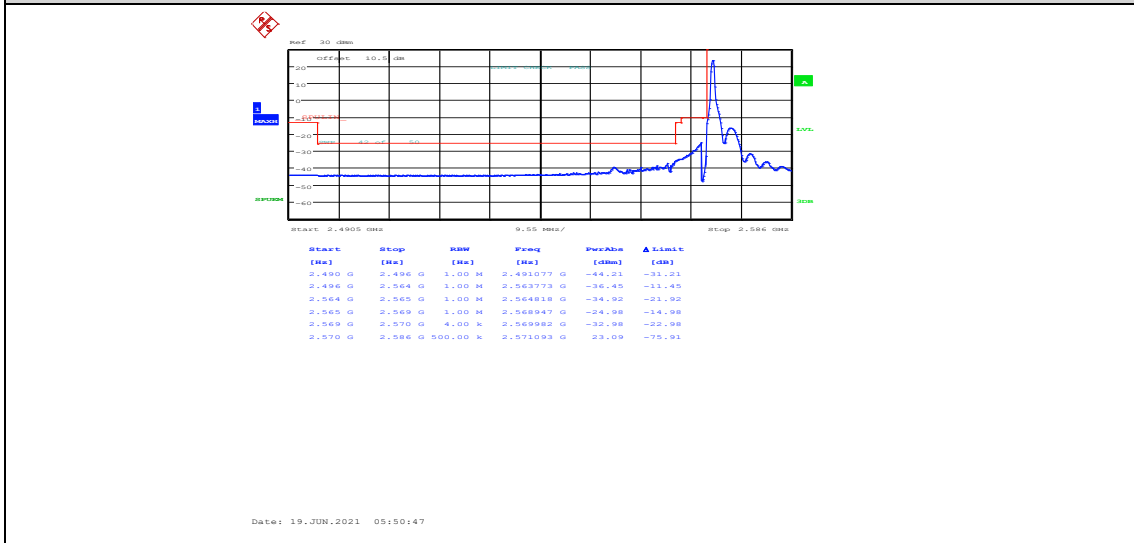
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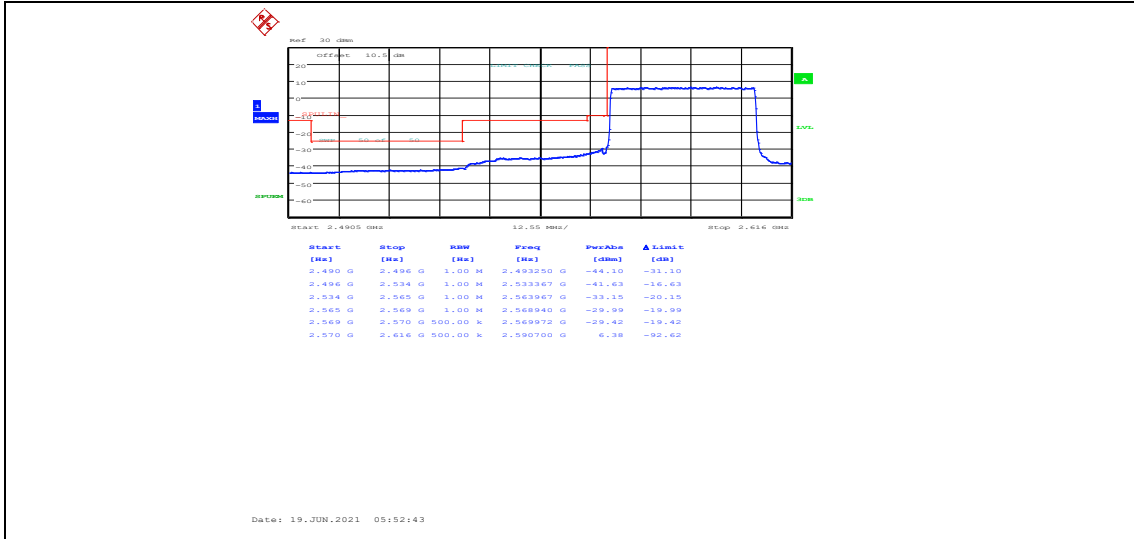


NTNV-N38-30kHz-30MHz-CP-QPSK-High-Outer\_Full-----see graph-PASS



NTNV-N38-30kHz-40MHz-DFT-BPSK-Low-Edge\_1RB\_Left-----see graph-PASS





NTNV-N38-30kHz-40MHz-DFT-BPSK-Low-Outer\_Full-----see graph-PASS

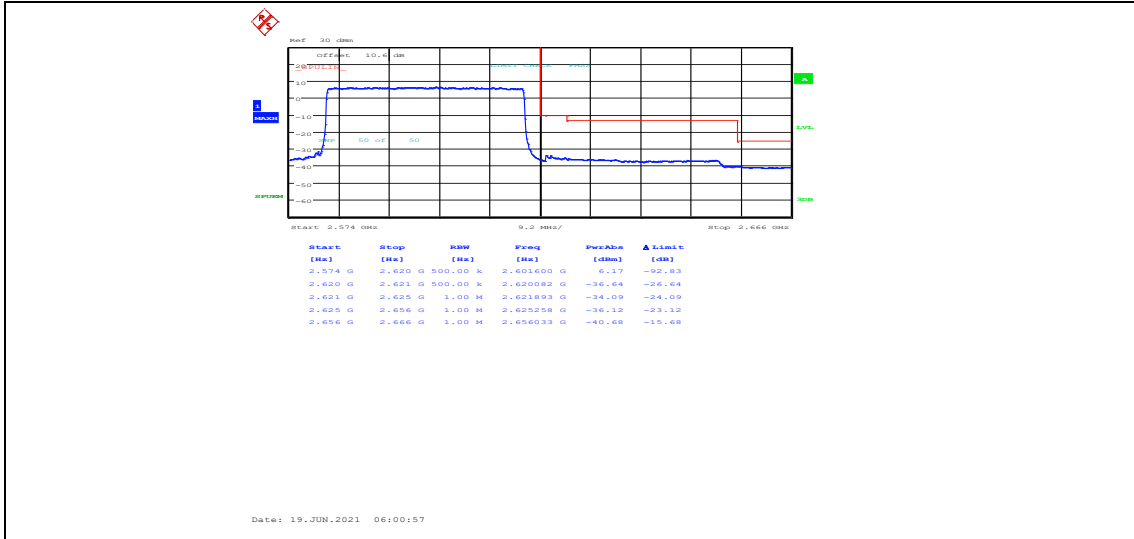


NTNV-N38-30kHz-40MHz-DFT-BPSK-High-Edge\_1RB\_Right-----see graph-PASS



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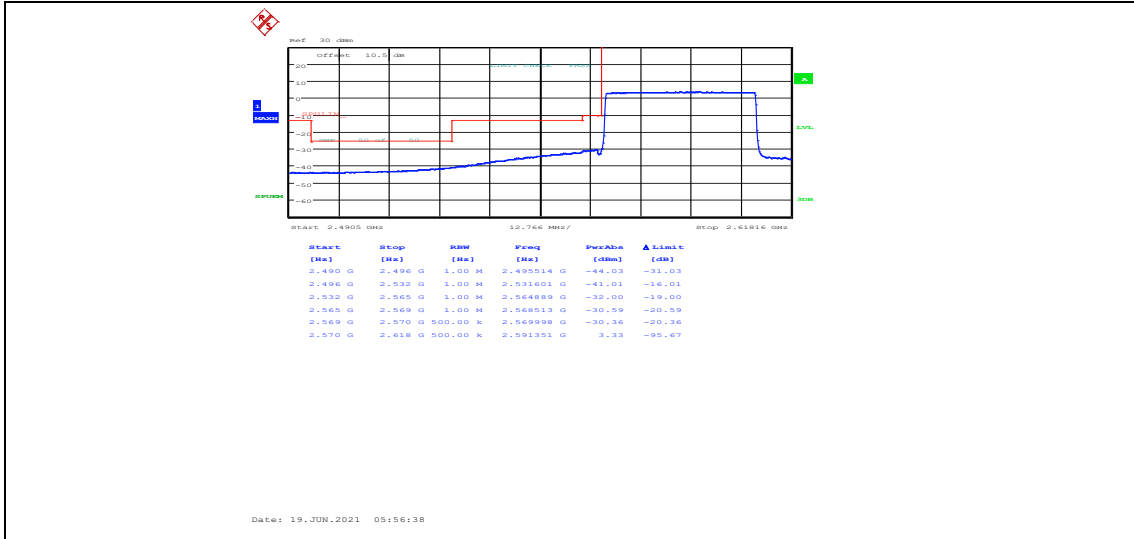


NTNV-N38-30kHz-40MHz-DFT-BPSK-High-Outer\_Full-----see graph-PASS

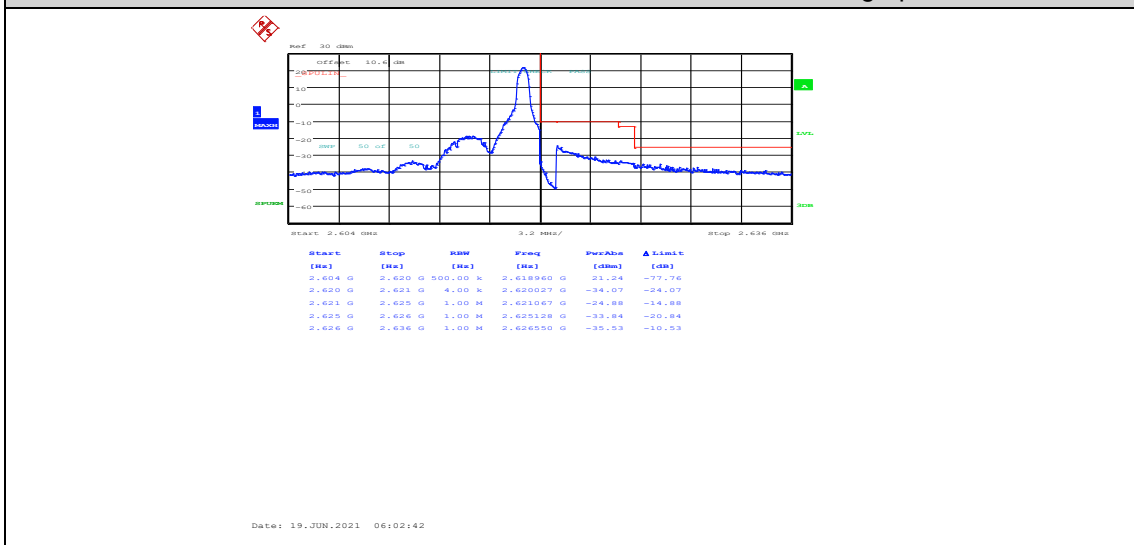


NTNV-N38-30kHz-40MHz-CP-QPSK-Low-Edge\_1RB\_Left-----see graph-PASS





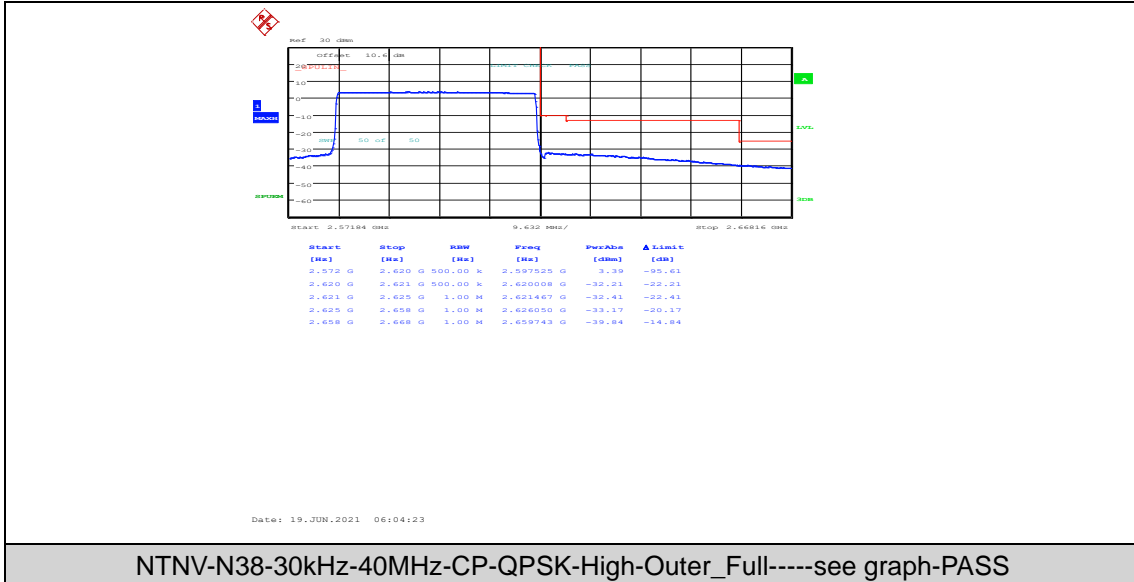
NTNV-N38-30kHz-40MHz-CP-QPSK-Low-Outer\_Full-----see graph-PASS



NTNV-N38-30kHz-40MHz-CP-QPSK-High-Edge\_1RB\_Right-----see graph-PASS



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NTNV-N38-30kHz-40MHz-CP-QPSK-High-Outer\_Full-----see graph-PASS

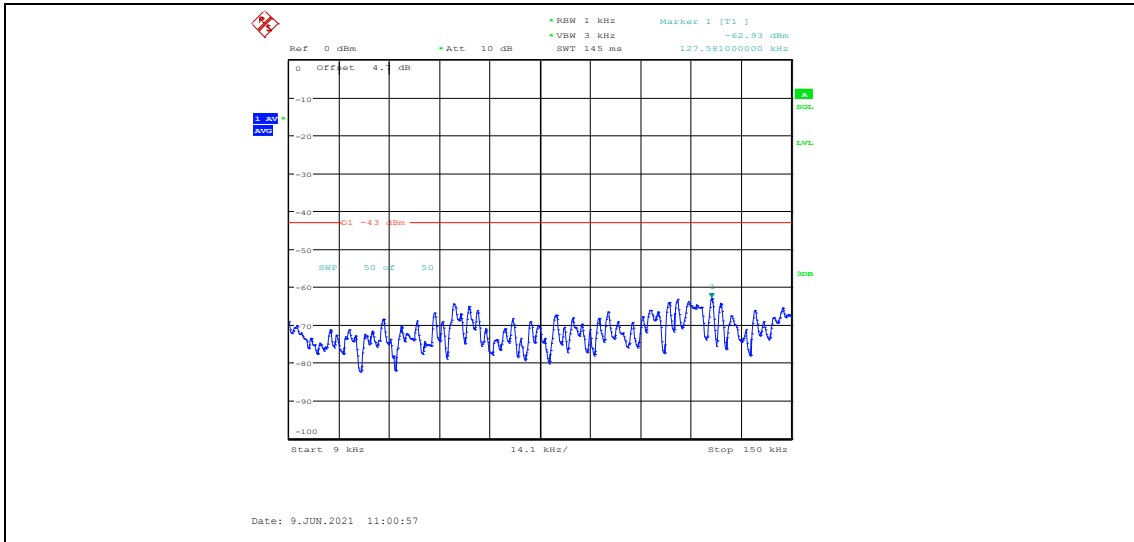
Remark: All antenna and all modulation had been tested, but only the worst case data displayed in this report.



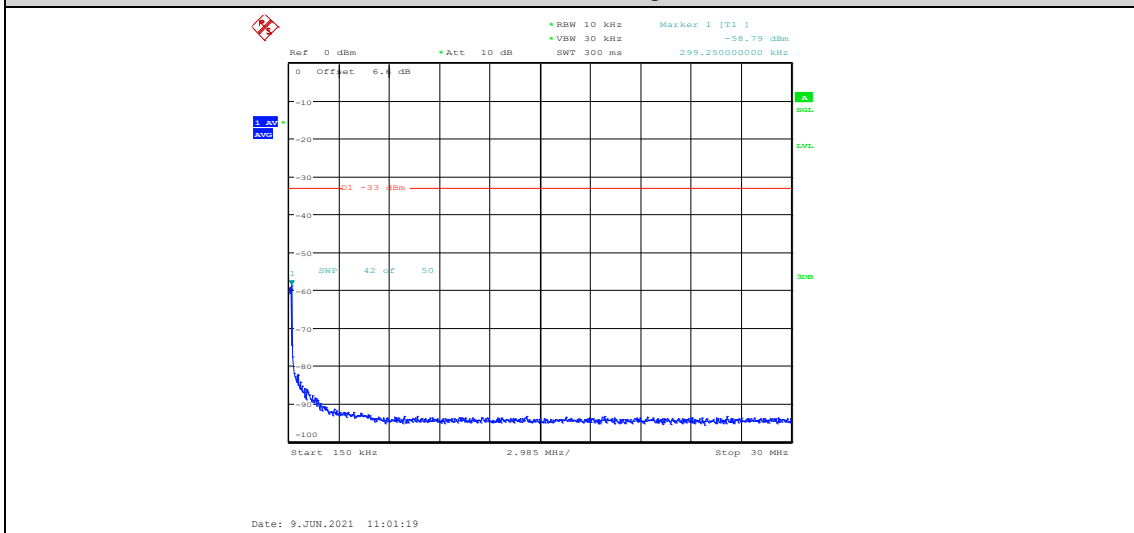
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## Conducted Spurious Emission for SA

### Test Graphs

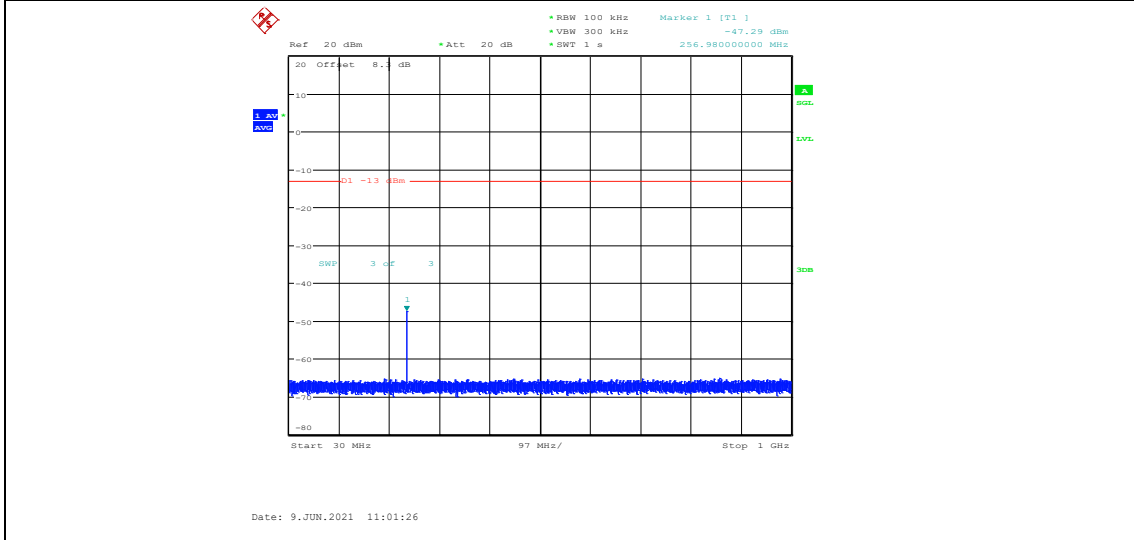


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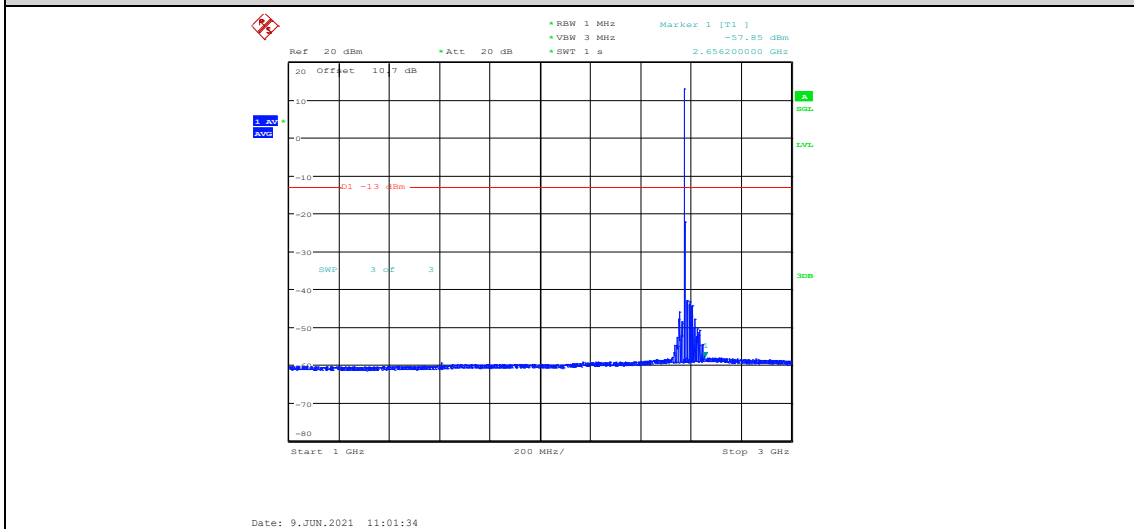


NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Low-Edge\_1RB\_Left-----0.15-3033-PASS





NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Low-Edge\_1RB\_Left-----30-100013-PASS

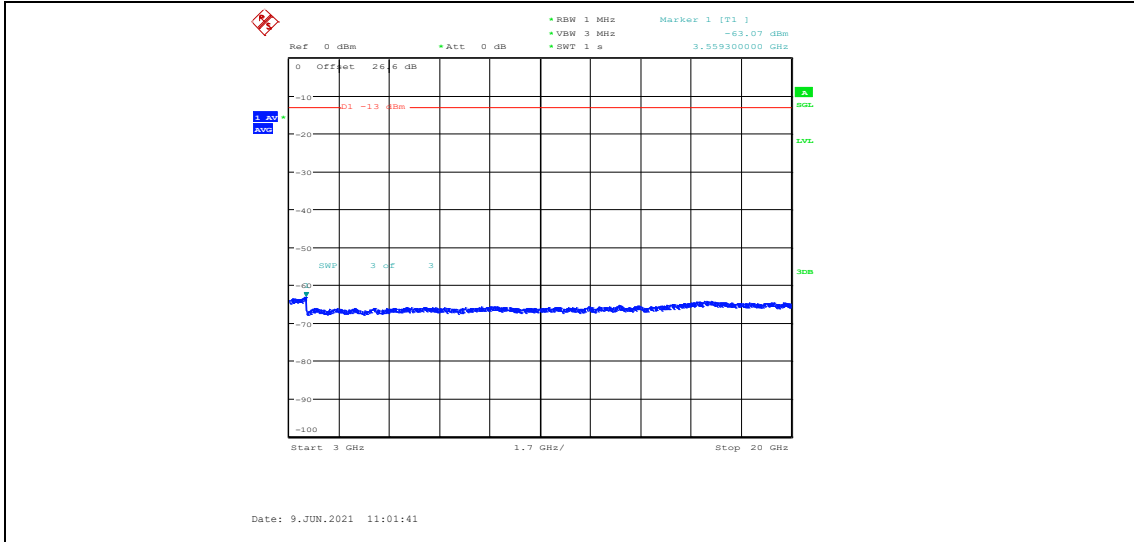


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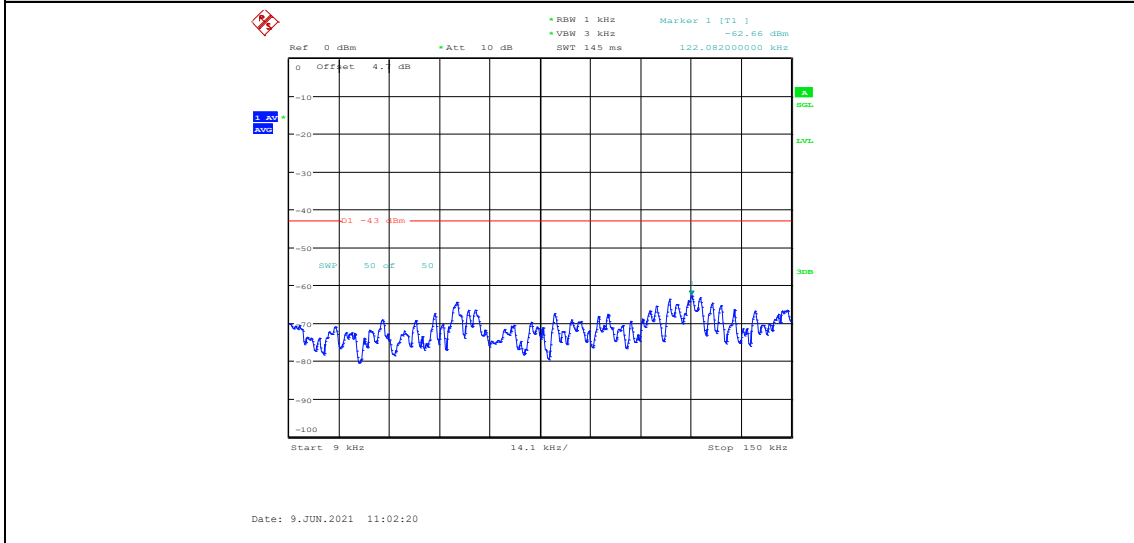


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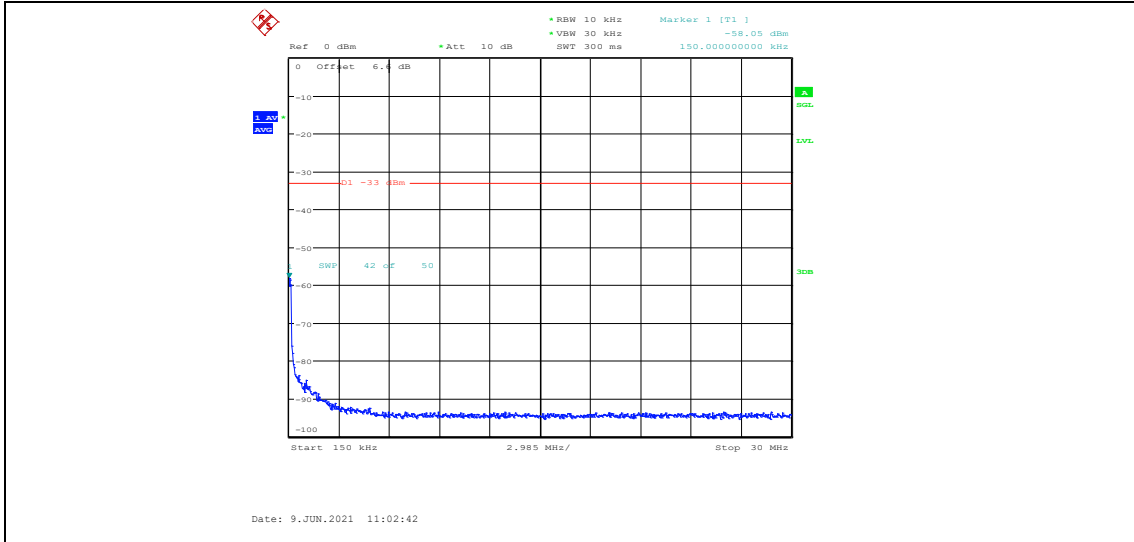
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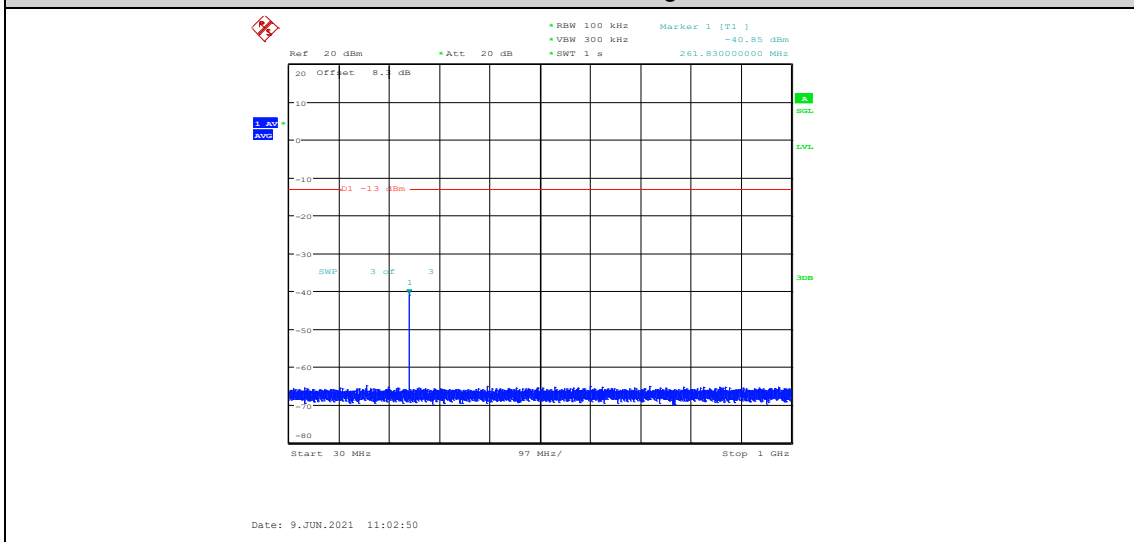
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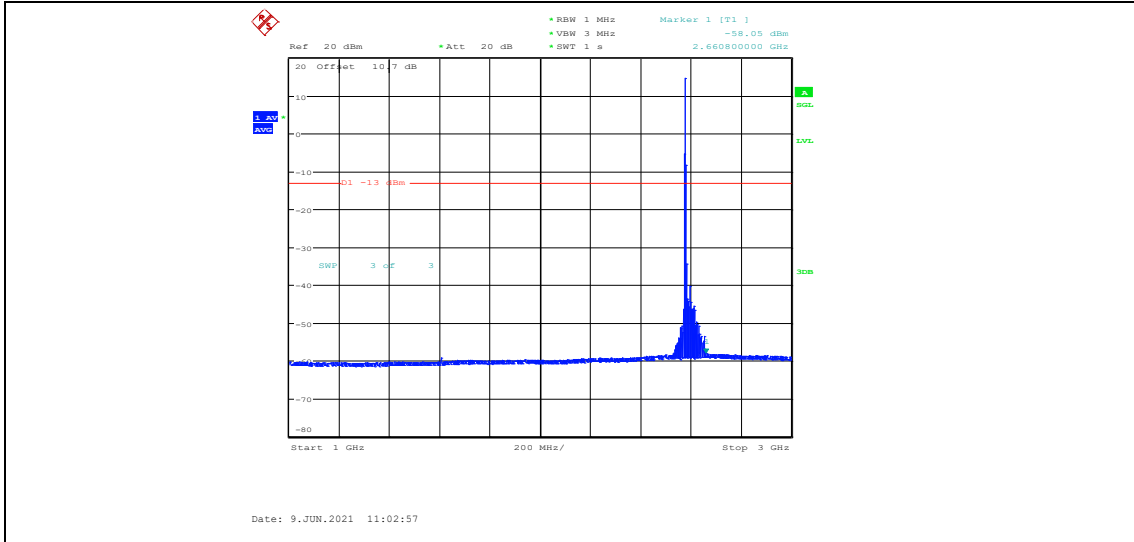


NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Mid-Edge\_1RB\_Left-----30-100013-PASS

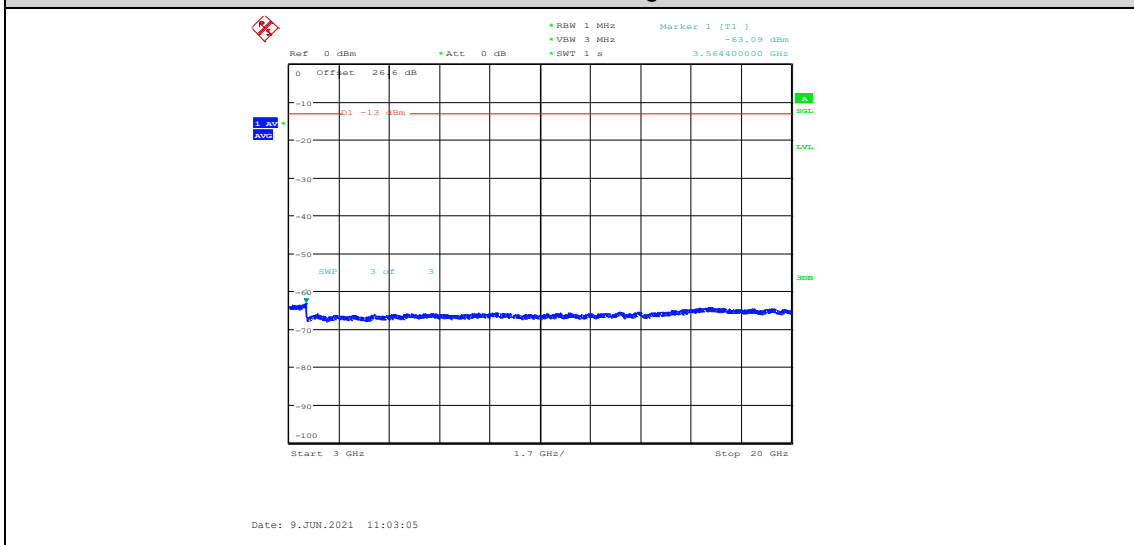


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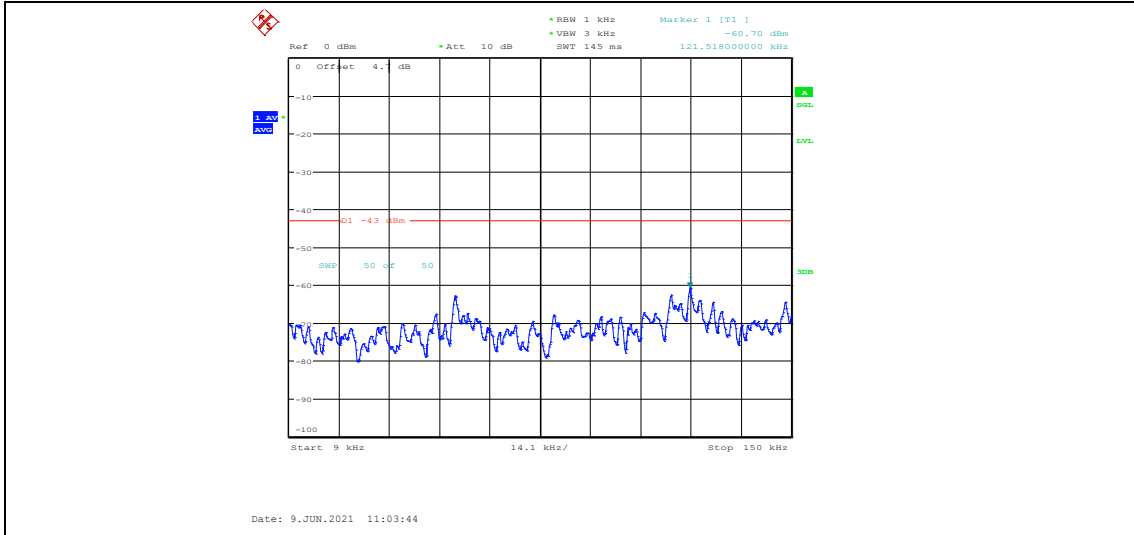
NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Mid-Edge\_1RB\_Left-----1000-300013-PASS



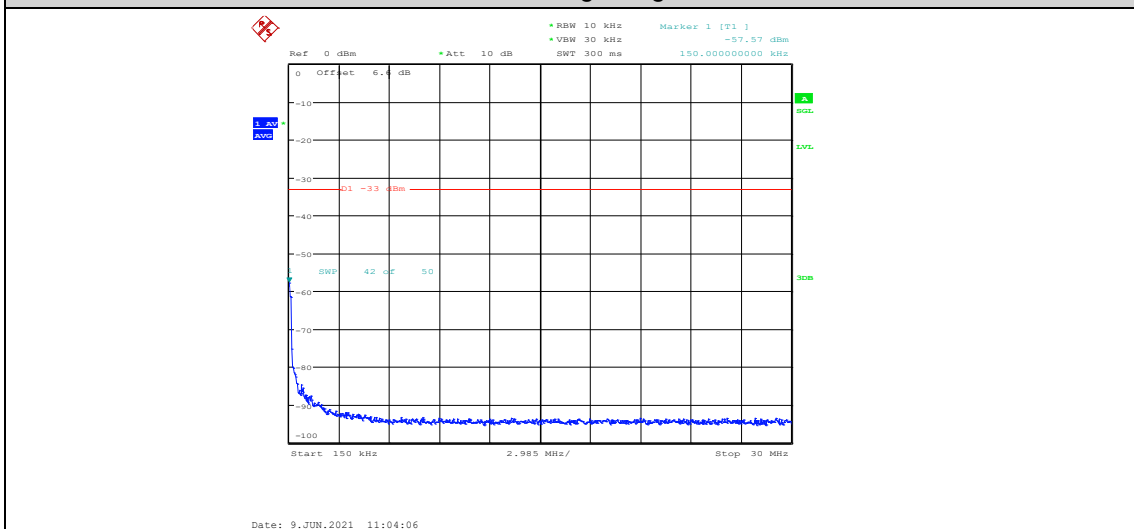
NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Mid-Edge\_1RB\_Left-----3000-2000013-PASS



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**NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-High-Edge\_1RB\_Left-----0.009-0.1543-PASS**

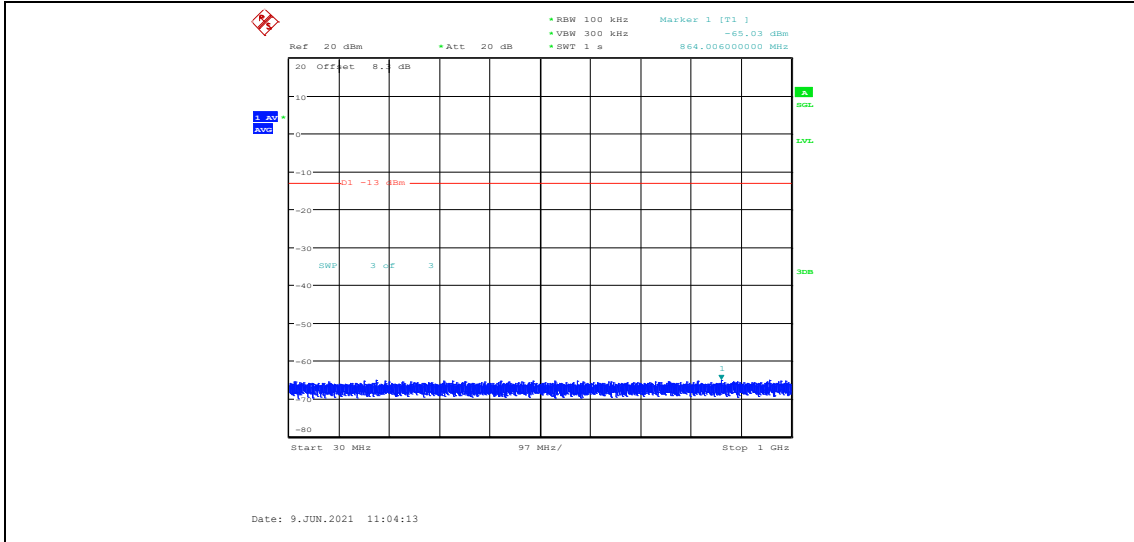


**NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-High-Edge\_1RB\_Left-----0.15-3033-PASS**

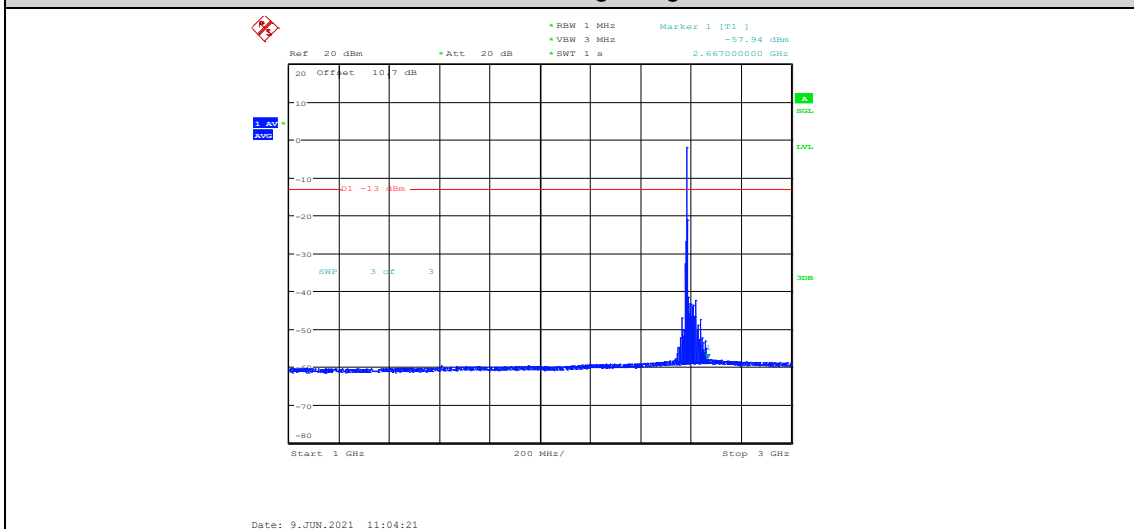


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NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-High-Edge\_1RB\_Left-----30-100013-PASS

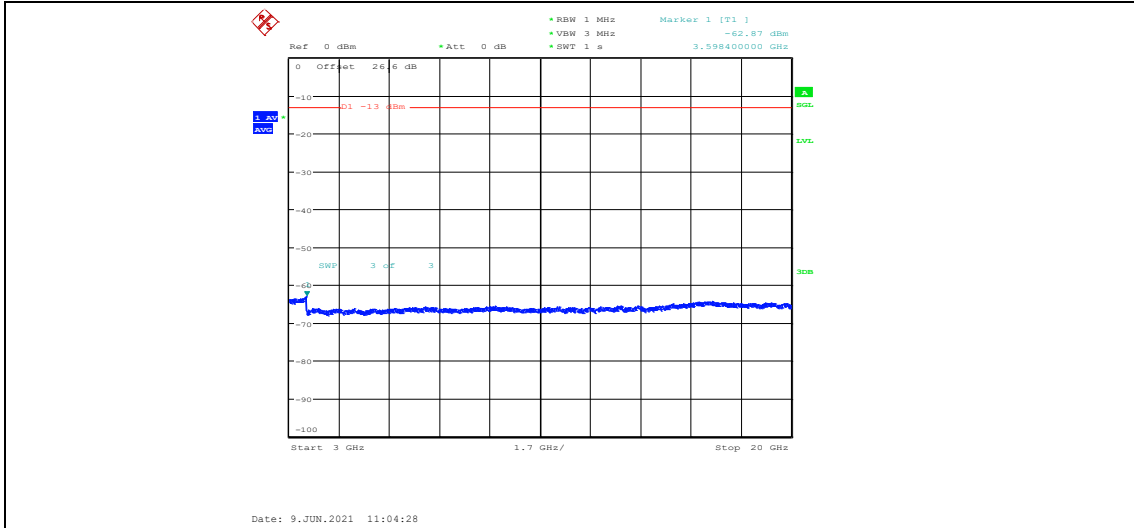


NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-High-Edge\_1RB\_Left-----1000-300013-PASS



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**NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-High-Edge\_1RB\_Left-----3000-2000013-PASS**

Remark: All antenna and all modulation had been tested, but only the worst case data displayed in this report.



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## Field Strength of Spurious Radiation

Test Band = 38 TM1 ANT4

Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1087.0109	21.10	-49.21	-25.00	24.21	Vertical
2	2860.7326	21.34	-44.10	-25.00	19.10	Vertical
3	5711.3856	50.99	-56.05	-25.00	31.05	Vertical
4	7452.9726	50.55	-51.87	-25.00	26.87	Vertical
5	13377.518	47.17	-45.41	-25.00	20.41	Vertical
6	17911.4956	49.32	-43.64	-25.00	18.64	Vertical

Test Band = 38 TM1 ANT4

Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1075.0094	21.31	-49.16	-25.00	24.16	Horizontal
2	2776.2220	21.45	-44.36	-25.00	19.36	Horizontal
3	6251.4126	51.74	-54.41	-25.00	29.41	Horizontal
4	9010.8005	48.89	-50.07	-25.00	25.07	Horizontal
5	11927.6964	48.68	-45.88	-25.00	20.88	Horizontal
6	17812.490	49.99	-44.21	-25.00	19.21	Horizontal



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**Test Band = \_38\_TM1 ANT4**

**Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5073	21.02	-49.77	-25.00	24.77	Horizontal
2	2903.9880	21.37	-43.70	-25.00	18.70	Horizontal
3	7481.4741	50.04	-52.14	-25.00	27.14	Horizontal
4	11163.4082	47.61	-47.95	-25.00	22.95	Horizontal
5	14784.589	47.39	-45.03	-25.00	20.03	Horizontal
6	17754.737	49.77	-45.01	-25.00	20.01	Horizontal

**Test Band = \_38\_TM1 ANT4**

**Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1088.2610	21.27	-49.08	-25.00	24.08	Vertical
2	2868.7336	21.00	-44.26	-25.00	19.26	Vertical
3	4604.3302	52.01	-59.48	-25.00	34.48	Vertical
4	8254.7627	49.69	-51.70	-25.00	26.70	Vertical
5	12996.499	46.68	-45.82	-25.00	20.82	Vertical
6	17825.241	49.98	-44.23	-25.00	19.23	Vertical



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**Test Band = \_38\_TM1 ANT4**

**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1153.2692	21.09	-49.18	-25.00	24.18	Horizontal
2	2929.9912	21.48	-43.23	-25.00	18.23	Horizontal
3	5703.8852	50.91	-55.96	-25.00	30.96	Horizontal
4	10698.384	48.73	-48.55	-25.00	23.55	Horizontal
5	14264.813	46.31	-45.75	-25.00	20.75	Horizontal
6	17768.988	49.95	-44.65	-25.00	19.65	Horizontal

**Test Band = \_38\_TM1 ANT4**

**Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1149.5187	20.82	-49.39	-25.00	24.39	Vertical
2	2869.7337	21.10	-44.14	-25.00	19.14	Vertical
3	4470.0735	53.14	-58.74	-25.00	33.74	Vertical
4	7962.9982	49.83	-52.14	-25.00	27.14	Vertical
5	15014.850	46.43	-45.21	-25.00	20.21	Vertical
6	17915.995	49.33	-43.61	-25.00	18.61	Vertical



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**Test Band = \_38\_TM1 ANT2  
Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150.7688	21.11	-49.09	-25.00	24.09	Horizontal
2	2870.7338	21.00	-44.24	-25.00	19.24	Horizontal
3	6539.4270	51.13	-54.05	-25.00	29.05	Horizontal
4	9010.8005	48.89	-50.07	-25.00	25.07	Horizontal
5	14120.806	46.50	-45.48	-25.00	20.48	Horizontal
6	16397.169	48.28	-45.52	-25.00	20.52	Horizontal

**Test Band = \_38\_TM1 ANT2  
Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1087.0109	21.10	-49.21	-25.00	24.21	Vertical
2	2749.7187	21.48	-44.25	-25.00	19.25	Vertical
3	6356.4178	50.89	-54.89	-25.00	29.89	Vertical
4	9607.0804	48.10	-50.12	-25.00	25.12	Vertical
5	13377.518	47.17	-45.41	-25.00	20.41	Vertical
6	16391.919	48.78	-45.13	-25.00	20.13	Vertical



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**Test Band = \_38\_TM1 ANT2  
Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1261.5327	20.85	-49.52	-25.00	24.52	Horizontal
2	2884.7356	21.19	-44.15	-25.00	19.15	Horizontal
3	5672.3836	51.10	-56.03	-25.00	31.03	Horizontal
4	9117.3059	49.29	-50.31	-25.00	25.31	Horizontal
5	14036.801	47.45	-44.70	-25.00	19.70	Horizontal
6	17817.740	50.20	-44.00	-25.00	19.00	Horizontal

**Test Band = \_38\_TM1 ANT2  
Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1088.2610	21.27	-49.08	-25.00	24.08	Vertical
2	2940.4926	21.30	-43.45	-25.00	18.45	Vertical
3	4604.3302	52.01	-59.48	-25.00	34.48	Vertical
4	8288.5144	50.23	-51.14	-25.00	26.14	Vertical
5	10726.136	48.63	-48.51	-25.00	23.51	Vertical
6	15752.887	47.22	-46.55	-25.00	21.55	Vertical



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**Test Band = \_38\_TM1 ANT2  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1100.7626	21.01	-49.47	-25.00	24.47	Horizontal
2	2992.2490	21.27	-43.43	-25.00	18.43	Horizontal
3	5703.8852	50.91	-55.96	-25.00	30.96	Horizontal
4	9746.5873	48.09	-50.05	-25.00	25.05	Horizontal
5	14023.301	46.65	-45.71	-25.00	20.71	Horizontal
6	17816.990	50.31	-43.89	-25.00	18.89	Horizontal

**Test Band = \_38\_TM1 ANT2  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1103.7630	21.05	-49.39	-25.00	24.39	Vertical
2	3000.0000	21.66	-42.79	-25.00	17.79	Vertical
3	4849.5925	51.70	-58.74	-25.00	33.74	Vertical
4	7499.4750	49.50	-52.53	-25.00	27.53	Vertical
5	12954.497	47.37	-45.68	-25.00	20.68	Vertical
6	17327.216	50.01	-46.19	-25.00	21.19	Vertical



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**Test Band = \_38\_TM1 ANT8  
Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1075.0094	21.31	-49.16	-25.00	24.16	Horizontal
2	2913.4892	21.46	-43.52	-25.00	18.52	Horizontal
3	6176.4088	50.92	-55.55	-25.00	30.55	Horizontal
4	9010.8005	48.89	-50.07	-25.00	25.07	Horizontal
5	14023.301	47.06	-45.30	-25.00	20.30	Horizontal
6	17337.716	49.70	-46.16	-25.00	21.16	Horizontal

**Test Band = \_38\_TM1 ANT8  
Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1107.2634	21.02	-49.38	-25.00	24.38	Vertical
2	2860.7326	21.34	-44.10	-25.00	19.10	Vertical
3	5132.3566	52.09	-57.48	-25.00	32.48	Vertical
4	8647.7824	49.16	-50.95	-25.00	25.95	Vertical
5	14021.8011	47.08	-45.30	-25.00	20.30	Vertical
6	17911.4956	49.32	-43.64	-25.00	18.64	Vertical



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**Test Band = \_38\_TM1 ANT8  
Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152.5191	21.31	-48.94	-25.00	23.94	Vertical
2	2940.4926	21.30	-43.45	-25.00	18.45	Vertical
3	4227.0614	52.69	-60.01	-25.00	35.01	Vertical
4	7024.7012	50.59	-53.28	-25.00	28.28	Vertical
5	11256.4128	48.58	-47.28	-25.00	22.28	Vertical
6	17372.968	49.63	-46.18	-25.00	21.18	Vertical

**Test Band = \_38\_TM1 ANT8  
Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1081.7602	20.98	-49.17	-25.00	24.17	Horizontal
2	2903.9880	21.37	-43.70	-25.00	18.70	Horizontal
3	6227.4114	51.20	-55.07	-25.00	30.07	Horizontal
4	10667.633	48.60	-48.40	-25.00	23.40	Horizontal
5	14784.589	47.39	-45.03	-25.00	20.03	Horizontal
6	17817.740	50.20	-44.00	-25.00	19.00	Horizontal



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**Test Band = \_38\_TM1 ANT8  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1153.2692	21.09	-49.18	-25.00	24.18	Horizontal
2	2929.9912	21.48	-43.23	-25.00	18.23	Horizontal
3	4316.3158	53.20	-59.60	-25.00	34.60	Horizontal
4	9746.5873	48.09	-50.05	-25.00	25.05	Horizontal
5	14264.813	46.31	-45.75	-25.00	20.75	Horizontal
6	17816.990	50.31	-43.89	-25.00	18.89	Horizontal

**Test Band = \_38\_TM1 ANT8  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150.5188	21.31	-48.89	-25.00	23.89	Vertical
2	3000.0000	21.66	-42.79	-25.00	17.79	Vertical
3	5225.3613	51.38	-57.56	-25.00	32.56	Vertical
4	9954.3477	48.40	-49.81	-25.00	24.81	Vertical
5	13499.775	46.64	-45.70	-25.00	20.70	Vertical
6	17915.995	49.33	-43.61	-25.00	18.61	Vertical



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**Test Band = \_38\_TM1 ANT5  
Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1920.8651	20.75	-48.83	-25.00	23.83	Horizontal
2	2998.9999	20.57	-43.91	-25.00	18.91	Horizontal
3	5142.1071	54.23	-55.31	-25.00	30.31	Horizontal
4	7119.2060	49.52	-53.57	-25.00	28.57	Horizontal
5	11927.6964	48.18	-46.38	-25.00	21.38	Horizontal
6	17812.490	49.49	-44.71	-25.00	19.71	Horizontal

**Test Band = \_38\_TM1 ANT5  
Test Channel = Low Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1965.1206	20.52	-48.33	-25.00	23.33	Vertical
2	2997.4997	21.11	-43.42	-25.00	18.42	Vertical
3	4416.0708	52.20	-60.01	-25.00	35.01	Vertical
4	7116.9558	49.42	-53.66	-25.00	28.66	Vertical
5	11230.1615	48.00	-47.77	-25.00	22.77	Vertical
6	16391.919	48.28	-45.63	-25.00	20.63	Vertical



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**Test Band = \_38\_TM1 ANT5  
Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2317.6647	20.87	-46.63	-25.00	21.63	Horizontal
2	2995.2494	20.90	-43.70	-25.00	18.70	Horizontal
3	4069.5535	52.57	-61.22	-25.00	36.22	Horizontal
4	5241.8621	51.04	-57.93	-25.00	32.93	Horizontal
5	8380.7690	49.72	-51.38	-25.00	26.38	Horizontal
6	16403.920	48.14	-45.67	-25.00	20.67	Horizontal

**Test Band = \_38\_TM1 ANT5  
Test Channel = Middle Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1302.0378	20.30	-50.21	-25.00	25.21	Vertical
2	1936.8671	32.50	-36.77	-25.00	11.77	Vertical
3	5478.8739	50.80	-57.24	-25.00	32.24	Vertical
4	9559.0780	47.79	-50.86	-25.00	25.86	Vertical
5	14781.589	46.44	-46.08	-25.00	21.08	Vertical
6	17991.749	49.55	-44.16	-25.00	19.16	Vertical



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**Test Band = \_38\_TM1 ANT5  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1698.8374	20.41	-49.53	-25.00	24.53	Horizontal
2	2224.6531	20.91	-46.81	-25.00	21.81	Horizontal
3	2929.9912	20.98	-43.73	-25.00	18.73	Horizontal
4	4316.3158	52.70	-60.10	-25.00	35.10	Horizontal
5	7474.7237	49.93	-52.31	-25.00	27.31	Horizontal
6	16401.670	48.18	-45.59	-25.00	20.59	Horizontal

**Test Band = \_38\_TM1 ANT5  
Test Channel = High Channel**

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1771.5965	20.55	-49.42	-25.00	24.42	Vertical
2	2908.9886	20.67	-44.37	-25.00	19.37	Vertical
3	6390.1695	50.09	-55.62	-25.00	30.62	Vertical
4	11931.4466	47.53	-47.09	-25.00	22.09	Vertical
5	15638.131	45.68	-47.36	-25.00	22.36	Vertical
6	17915.995	48.83	-44.11	-25.00	19.11	Vertical

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 All modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.
- 4 The disturbance above26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N38	30KHz	40MHz	TM1	518000	Outer Full	VL	NT	-7.24	-0.00280	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	NT	11.84	0.00457	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VH	NT	9.70	0.00375	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VL	NT	-0.52	-0.00020	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	NT	12.28	0.00473	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VH	NT	-4.50	-0.00173	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VL	NT	-0.41	-0.00016	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	NT	2.11	0.00081	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VH	NT	2.00	0.00077	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VL	NT	7.89	0.00305	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	NT	-0.10	-0.00004	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VH	NT	12.60	0.00486	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VL	NT	11.37	0.00438	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	NT	-3.41	-0.00131	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VH	NT	-10.73	-0.00413	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VL	NT	11.40	0.00438	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	NT	5.90	0.00227	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VH	NT	12.37	0.00476	±2.5	PASS



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**Frequency Error VS. Temperature**

NR Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage [Vdc]	Temperature(°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	-30	2.43	0.00094	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	-20	-12.96	-0.00500	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	-10	12.67	0.00489	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	0	-2.56	-0.00099	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	10	-3.19	-0.00123	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	20	4.23	0.00163	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	30	-5.89	-0.00227	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	40	6.54	0.00253	±2.5	PASS
N38	30KHz	40MHz	TM1	518000	Outer Full	VN	50	0.26	0.00010	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	-30	-1.88	-0.00072	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	-20	-2.65	-0.00102	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	-10	1.94	0.00075	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	0	6.13	0.00236	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	10	7.48	0.00288	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	20	-1.59	-0.00061	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	30	-12.21	-0.00471	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	40	9.72	0.00375	±2.5	PASS
N38	30KHz	40MHz	TM1	519000	Outer Full	VN	50	11.66	0.00449	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	-30	-5.15	-0.00198	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	-20	7.11	0.00273	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	-10	-3.41	-0.00131	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	0	-10.79	-0.00415	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	10	-6.42	-0.00247	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	20	-4.73	-0.00182	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	30	-6.12	-0.00235	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	40	2.75	0.00106	±2.5	PASS
N38	30KHz	40MHz	TM1	520000	Outer Full	VN	50	-9.02	-0.00347	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	-30	-2.01	-0.00078	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	-20	12.17	0.00470	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	-10	4.63	0.00179	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	0	-0.68	-0.00026	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	10	-3.07	-0.00119	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	20	-2.31	-0.00089	±2.5	PASS



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(XI 'AN) CO., LTD.**

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N38	30KHz	40MHz	TM6	518000	Outer Full	VN	30	-7.91	-0.00305	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	40	1.87	0.00072	±2.5	PASS
N38	30KHz	40MHz	TM6	518000	Outer Full	VN	50	-3.59	-0.00139	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	-30	-1.69	-0.00065	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	-20	2.79	0.00108	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	-10	-9.65	-0.00372	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	0	13.49	0.00520	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	10	12.73	0.00491	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	20	11.81	0.00455	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	30	-10.85	-0.00418	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	40	1.70	0.00066	±2.5	PASS
N38	30KHz	40MHz	TM6	519000	Outer Full	VN	50	3.67	0.00141	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	-30	13.97	0.00537	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	-20	3.41	0.00131	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	-10	-10.17	-0.00391	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	0	4.53	0.00174	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	10	0.70	0.00027	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	20	-7.72	-0.00297	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	30	5.52	0.00212	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	40	10.74	0.00413	±2.5	PASS
N38	30KHz	40MHz	TM6	520000	Outer Full	VN	50	-9.77	-0.00376	±2.5	PASS

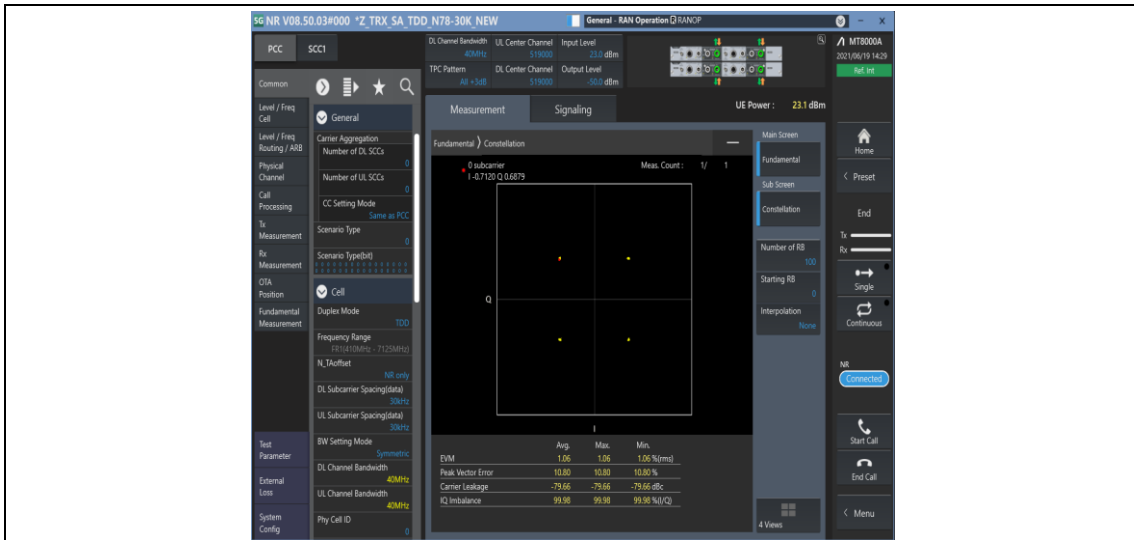


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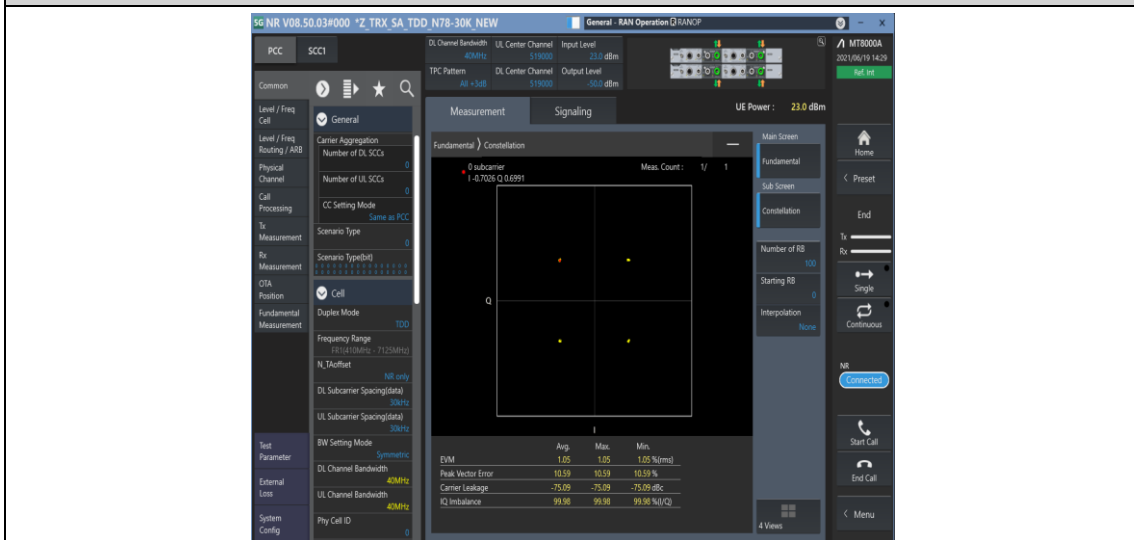
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## Modulation characteristics for SA

### Test Graphs

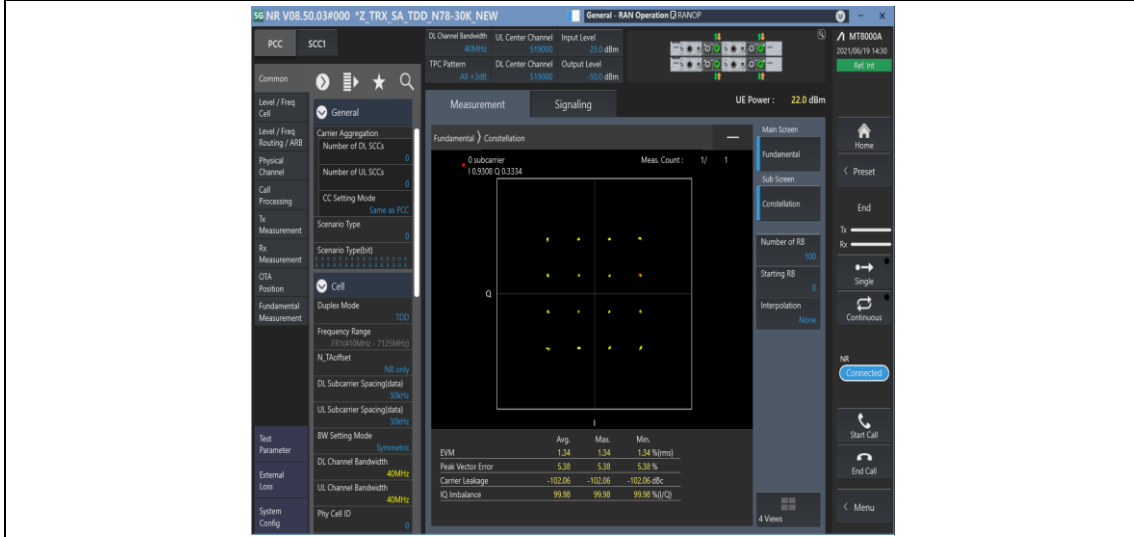


NTNV-N38-30kHz-40MHz-DFT-PI2BPSK-Mid-Outer\_Full----±2.5ppm-PASS

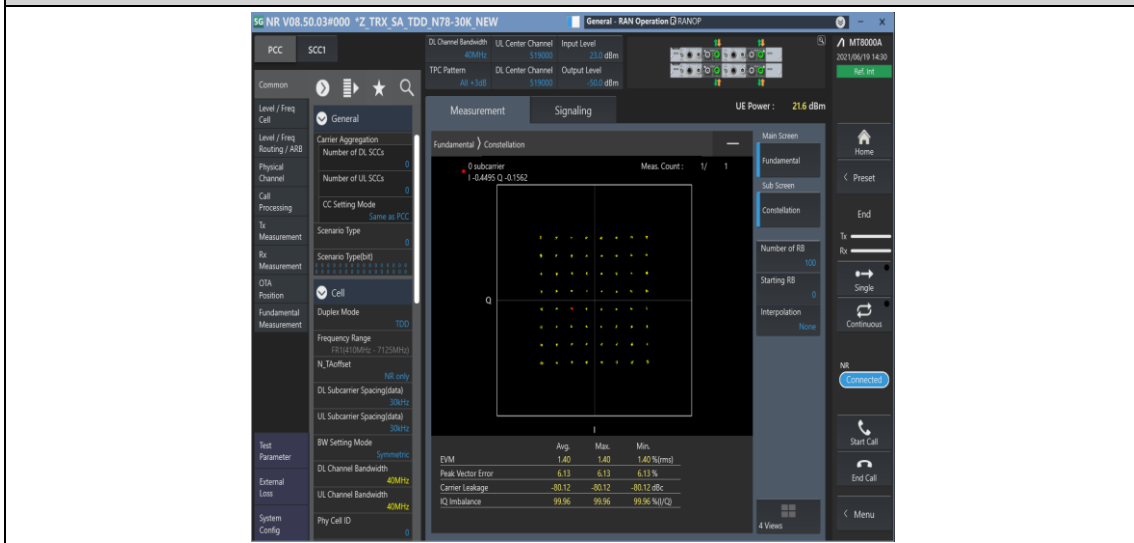


NTNV-N38-30kHz-40MHz-DFT-QPSK-Mid-Outer\_Full----±2.5ppm-PASS





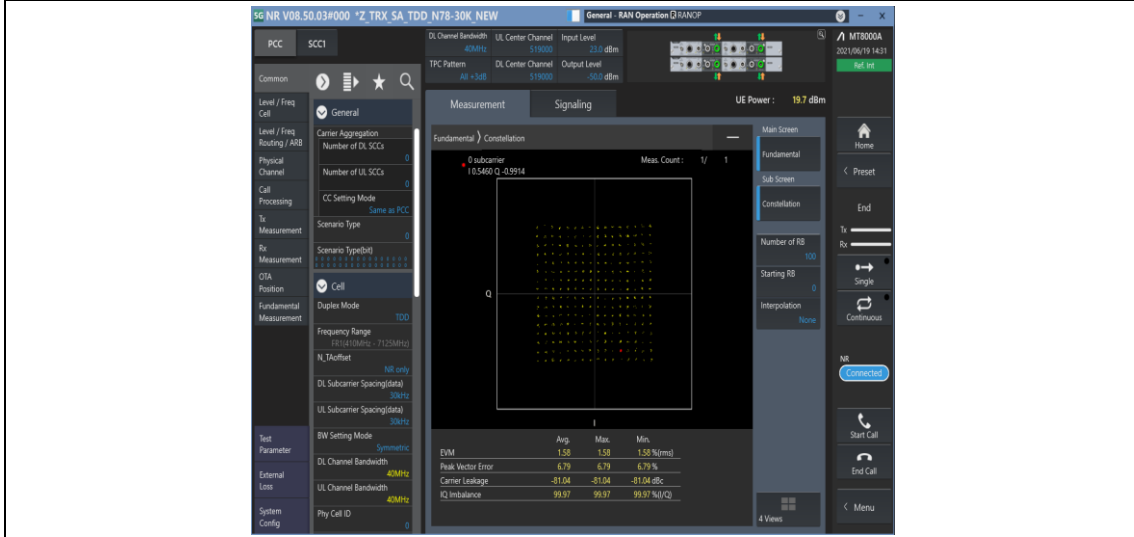
NTNV-N38-30kHz-40MHz-DFT-16QAM-Mid-Outer\_Full-----±2.5ppm-PASS



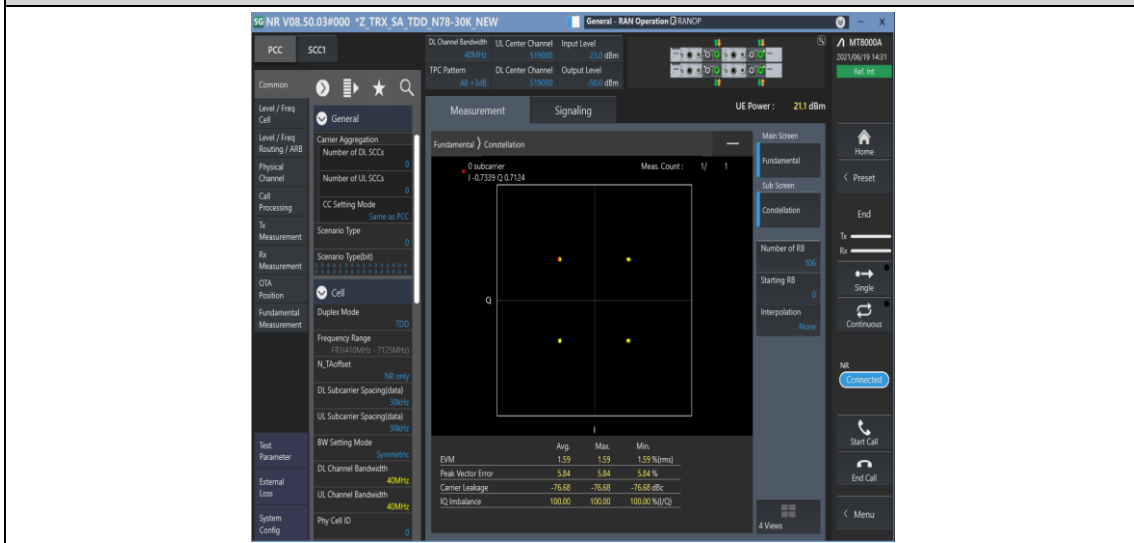
NTNV-N38-30kHz-40MHz-DFT-64QAM-Mid-Outer\_Full-----±2.5ppm-PASS



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NTNV-N38-30kHz-40MHz-DFT-256QAM-Mid-Outer\_Full-----±2.5ppm-PASS



NTNV-N38-30kHz-40MHz-CP-QPSK-Mid-Outer\_Full-----±2.5ppm-PASS



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