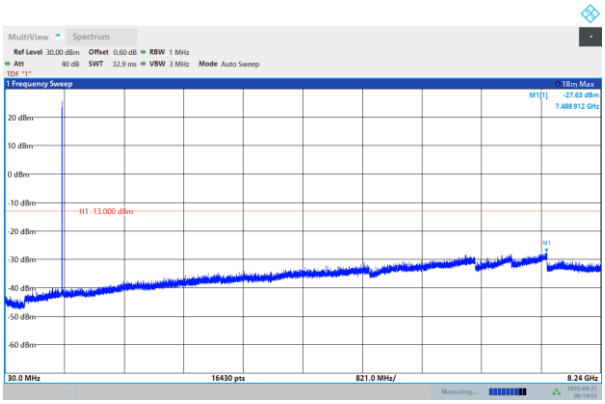
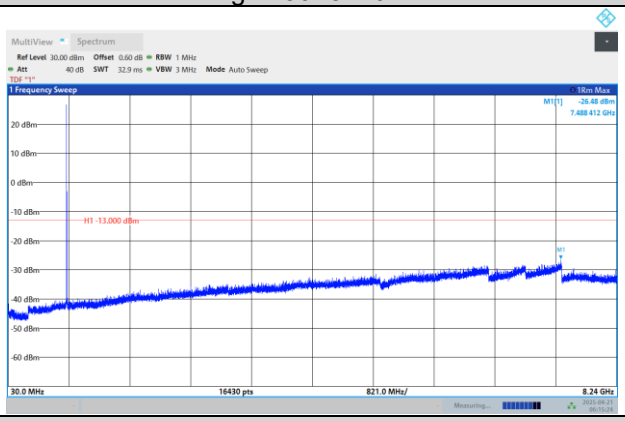
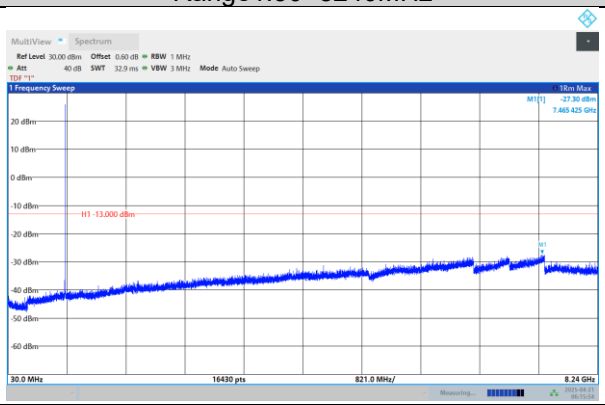
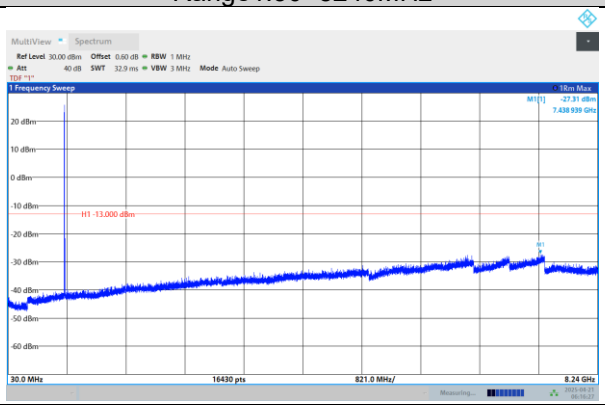
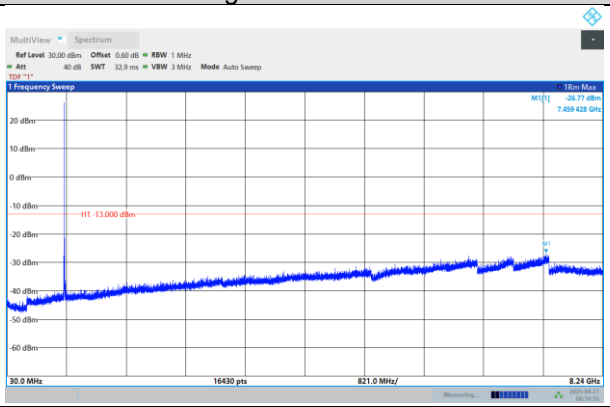
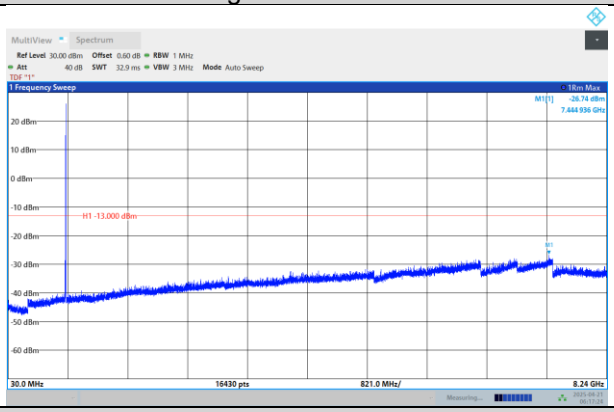
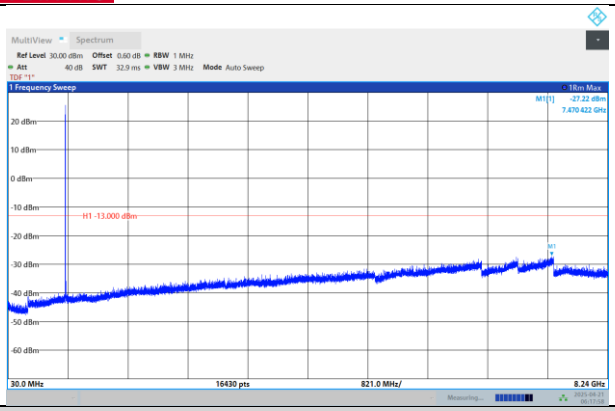
CONDUCTED SPURIOUS EMISSION

Test Result

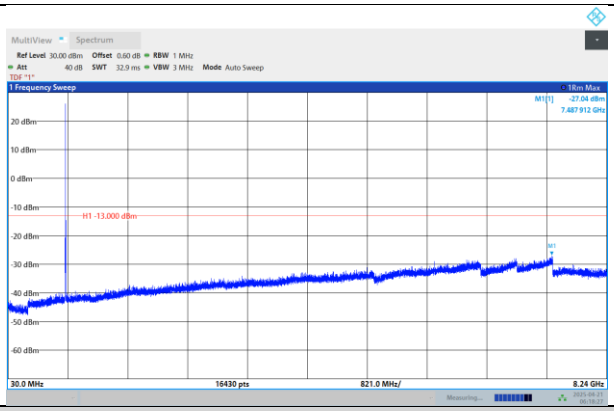
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band26	1.4MHz	QPSK	814.7	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	1.4MHz	QPSK	819	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	1.4MHz	QPSK	823.3	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	3MHz	QPSK	815.5	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	3MHz	QPSK	819	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	3MHz	QPSK	822.5	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	5MHz	QPSK	816.5	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	5MHz	QPSK	819	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	5MHz	QPSK	821.5	1RB#0	Range1:30~8240MHz	See Graph	PASS
Band26	10MHz	QPSK	819	1RB#0	Range1:30~8240MHz	See Graph	PASS

Test Graphs

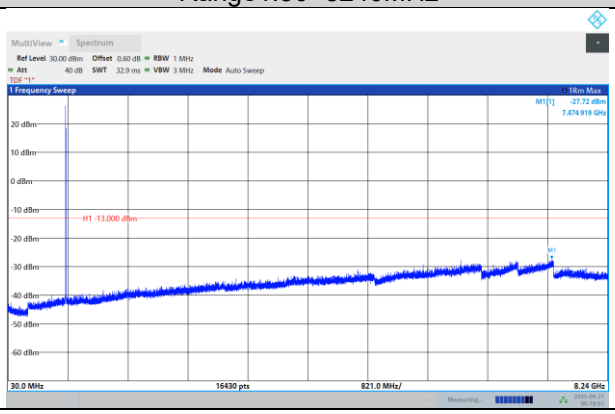
Band26-1.4MHz-QPSK-814.7-1RB#0-Range1:30~8240MHz	Band26-1.4MHz-QPSK-819-1RB#0-Range1:30~8240MHz
	
Band26-1.4MHz-QPSK-823.3-1RB#0-Range1:30~8240MHz	Band26-3MHz-QPSK-815.5-1RB#0-Range1:30~8240MHz
	
Band26-3MHz-QPSK-819-1RB#0-Range1:30~8240MHz	Band26-3MHz-QPSK-822.5-1RB#0-Range1:30~8240MHz
	
Band26-5MHz-QPSK-816.5-1RB#0-Range1:30~8240MHz	Band26-5MHz-QPSK-819-1RB#0-Range1:30~8240MHz

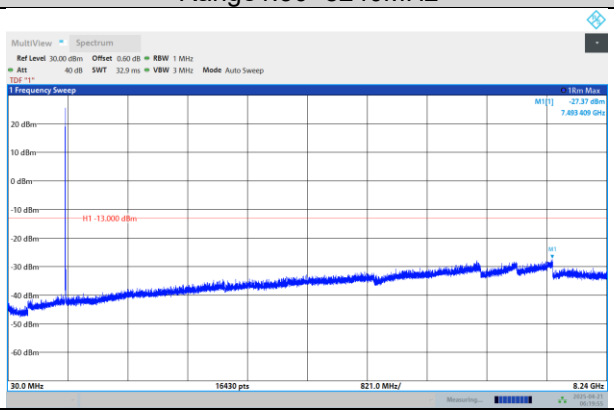


Band26-5MHz-QPSK-821.5-1RB#0-Range1:30~8240MHz



Band26-10MHz-QPSK-819-1RB#0-Range1:30~8240MHz





FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
B26	10MHz	QPSK	819	50RB#0	LV	NT	-17.40	-0.0212	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	NT	1.20	0.0015	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	HV	NT	-4.50	-0.0055	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
B26	10MHz	QPSK	819	50RB#0	NV	-30	-1.00	-0.0012	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	-20	9.20	0.0112	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	-10	-19.60	-0.0239	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	0	-10.50	-0.0128	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	10	0.30	0.0004	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	20	-12.90	-0.0158	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	30	-4.40	-0.0054	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	40	24.10	0.0294	±2.5	PASS
B26	10MHz	QPSK	819	50RB#0	NV	50	-13.50	-0.0165	±2.5	PASS

N14

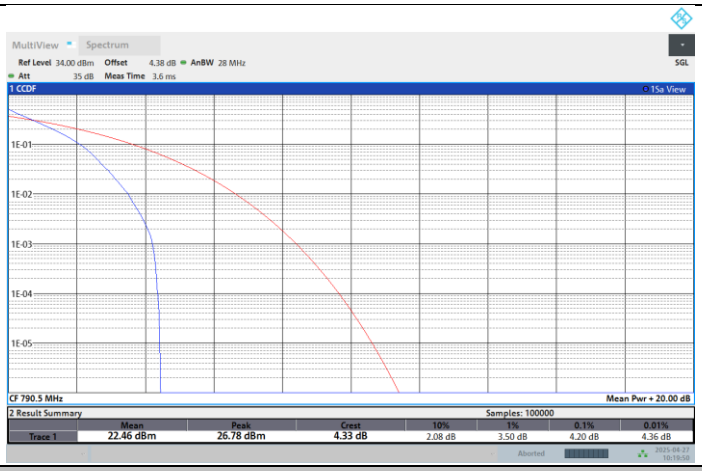
PEAK-TO-AVERAGE RATIO FOR SA

Peak-to-Average Ratio(CCDF)

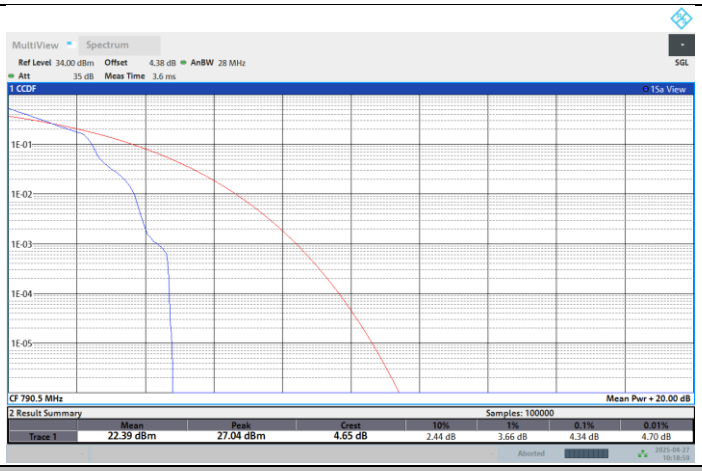
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N14	15	5	DFT-PI2BPSK	L	Outer_Full	4.20	≤13	PASS
N14	15	5	DFT-PI2BPSK	L	Edge_1RB_Left	4.34	≤13	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	5.56	≤13	PASS
N14	15	5	DFT-QPSK	L	Edge_1RB_Left	5.80	≤13	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	6.16	≤13	PASS
N14	15	5	DFT-16QAM	L	Edge_1RB_Left	6.18	≤13	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	6.54	≤13	PASS
N14	15	5	DFT-64QAM	L	Edge_1RB_Left	6.60	≤13	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	6.56	≤13	PASS
N14	15	5	DFT-256QAM	L	Edge_1RB_Left	6.50	≤13	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.34	≤13	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	3.92	≤13	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	5.64	≤13	PASS
N14	15	5	DFT-QPSK	M	Edge_1RB_Left	5.78	≤13	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	6.12	≤13	PASS
N14	15	5	DFT-16QAM	M	Edge_1RB_Left	6.32	≤13	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	6.48	≤13	PASS
N14	15	5	DFT-64QAM	M	Edge_1RB_Left	6.58	≤13	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	6.58	≤13	PASS
N14	15	5	DFT-256QAM	M	Edge_1RB_Left	6.44	≤13	PASS
N14	15	5	DFT-PI2BPSK	H	Outer_Full	4.14	≤13	PASS
N14	15	5	DFT-PI2BPSK	H	Edge_1RB_Left	3.92	≤13	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	5.38	≤13	PASS
N14	15	5	DFT-QPSK	H	Edge_1RB_Left	5.44	≤13	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	5.94	≤13	PASS
N14	15	5	DFT-16QAM	H	Edge_1RB_Left	6.46	≤13	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	6.40	≤13	PASS
N14	15	5	DFT-64QAM	H	Edge_1RB_Left	6.64	≤13	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	6.46	≤13	PASS
N14	15	5	DFT-256QAM	H	Edge_1RB_Left	6.56	≤13	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	4.40	≤13	PASS
N14	15	10	DFT-PI2BPSK	M	Edge_1RB_Left	3.86	≤13	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	5.56	≤13	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Left	5.78	≤13	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	6.32	≤13	PASS
N14	15	10	DFT-16QAM	M	Edge_1RB_Left	6.48	≤13	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	6.50	≤13	PASS
N14	15	10	DFT-64QAM	M	Edge_1RB_Left	6.46	≤13	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	6.66	≤13	PASS
N14	15	10	DFT-256QAM	M	Edge_1RB_Left	6.52	≤13	PASS

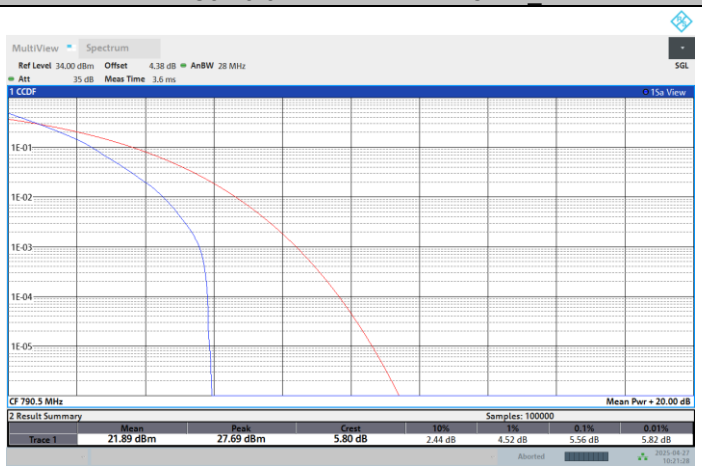
Test Graphs



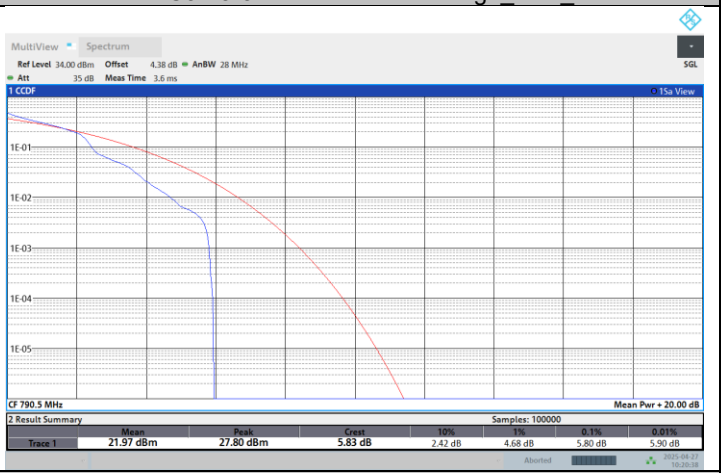
NTNV-N14-PC3-15-5-L-DFT-PI2BPSK-Outer_Full-PASS



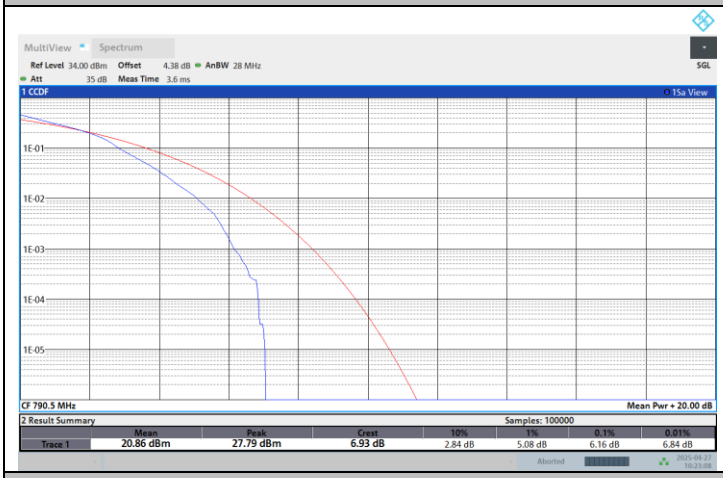
NTNV-N14-PC3-15-5-L-DFT-PI2BPSK-Edge_1RB_Left-PASS



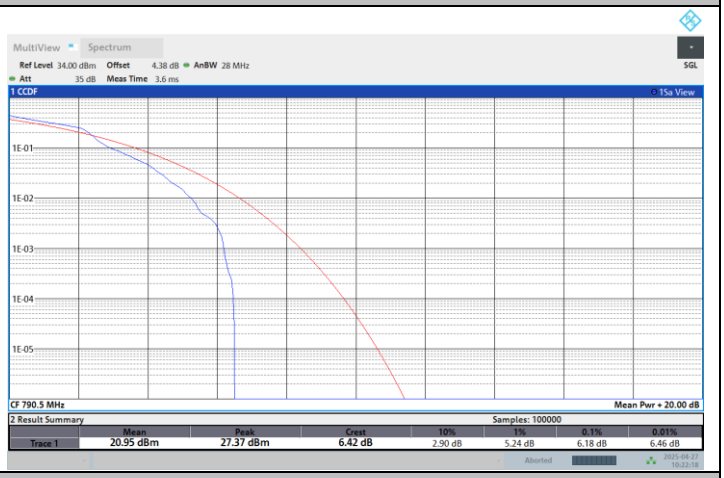
NTNV-N14-PC3-15-5-L-DFT-QPSK-Outer_Full-PASS



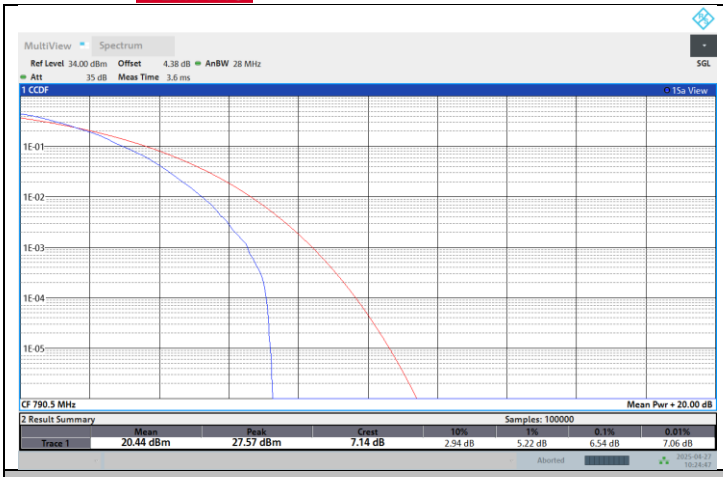
NTNV-N14-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-PASS



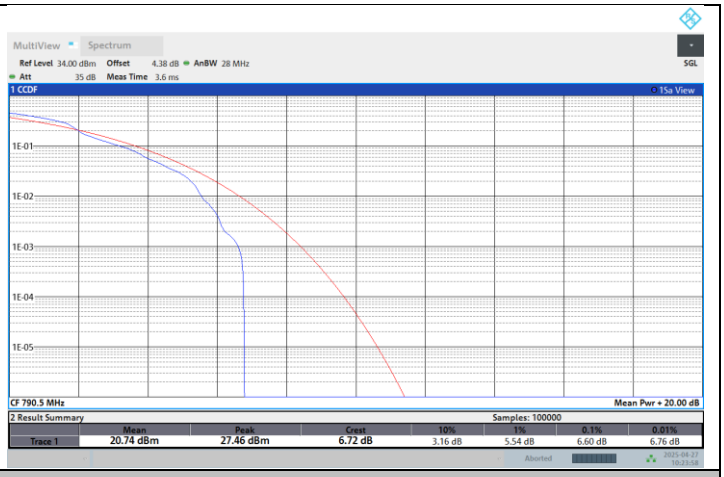
NTNV-N14-PC3-15-5-L-DFT-16QAM-Outer_Full-PASS



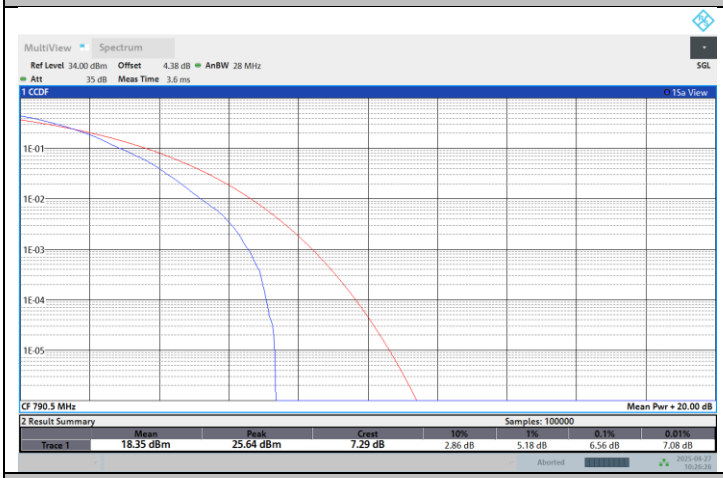
NTNV-N14-PC3-15-5-L-DFT-16QAM-Edge_1RB_Left-PASS



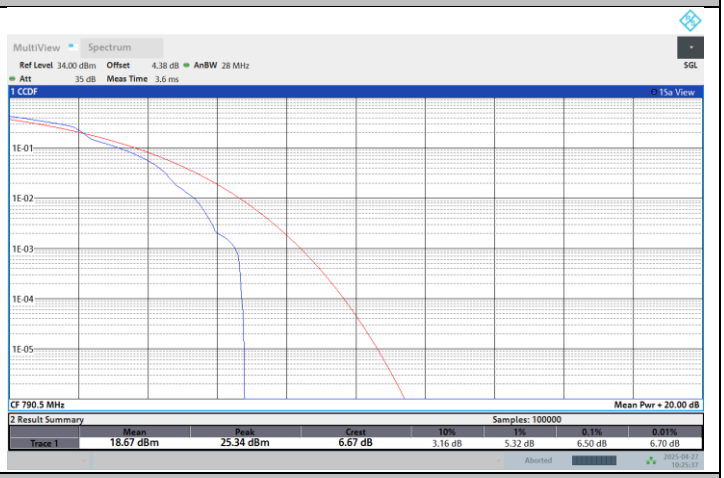
NTNV-N14-PC3-15-5-L-DFT-64QAM-Outer_Full-PASS



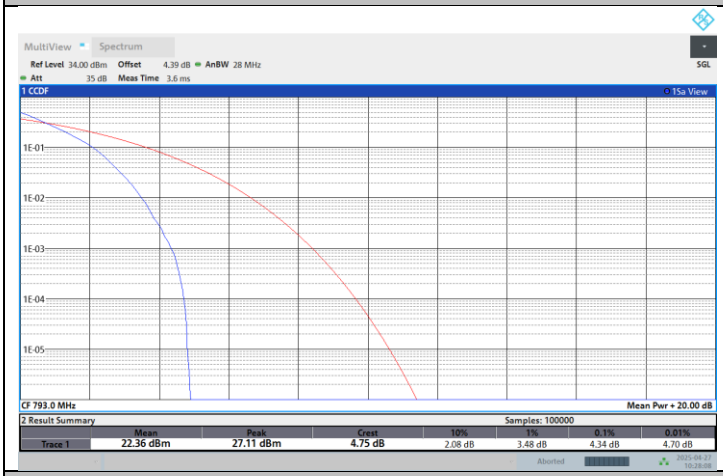
NTNV-N14-PC3-15-5-L-DFT-64QAM-Edge_1RB_Left-PASS



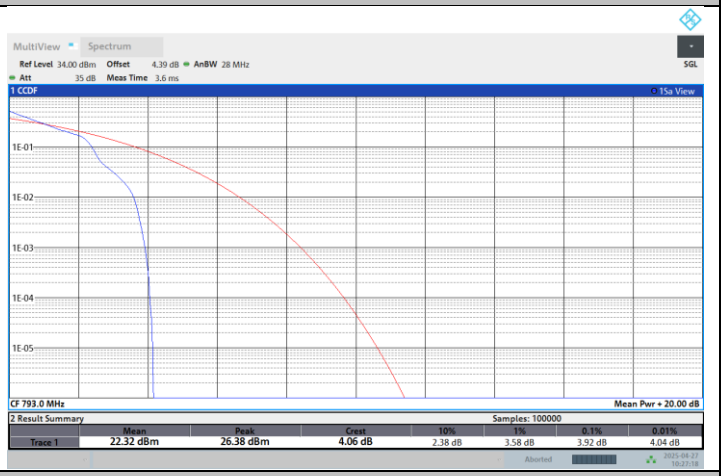
NTNV-N14-PC3-15-5-L-DFT-256QAM-Outer_Full-PASS



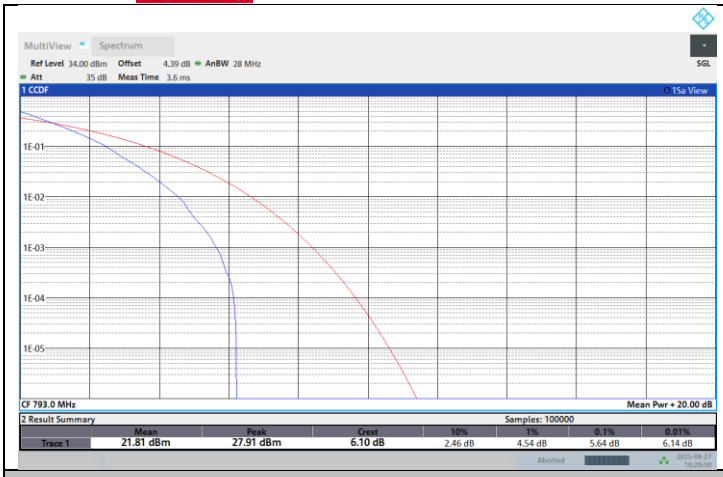
NTNV-N14-PC3-15-5-L-DFT-256QAM-Edge_1RB_Left-PASS



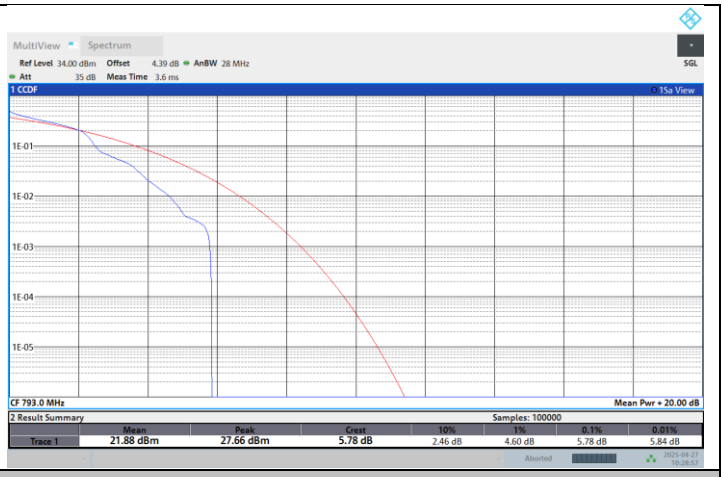
NTNV-N14-PC3-15-5-M-DFT-PI2BPSK-Outer_Full-PASS



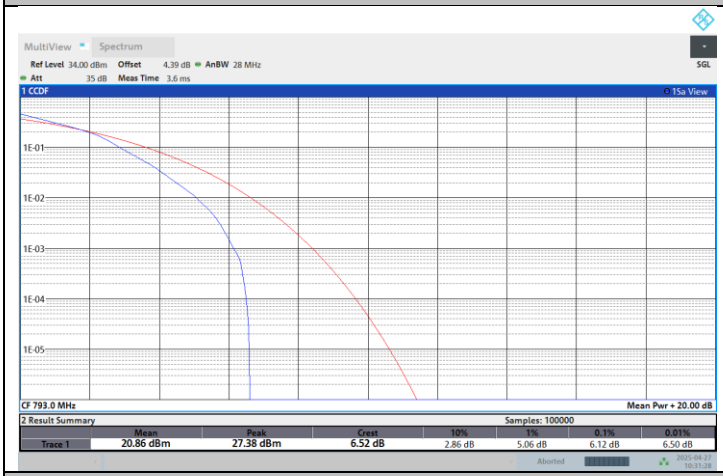
NTNV-N14-PC3-15-5-M-DFT-PI2BPSK-Edge_1RB_Left-PASS



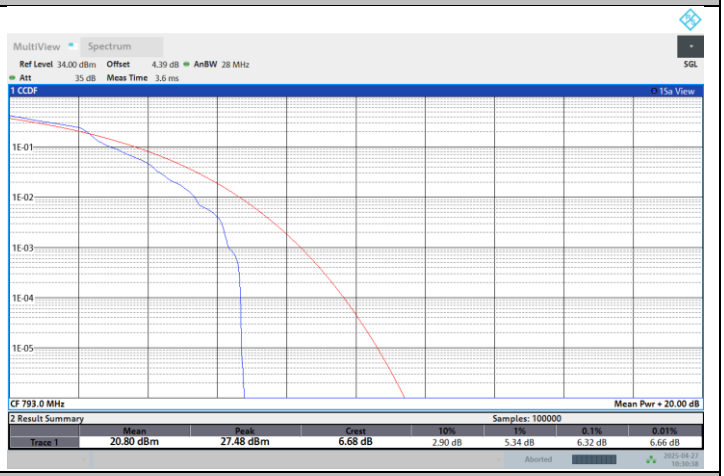
NTNV-N14-PC3-15-5-M-DFT-QPSK-Outer_Full-PASS



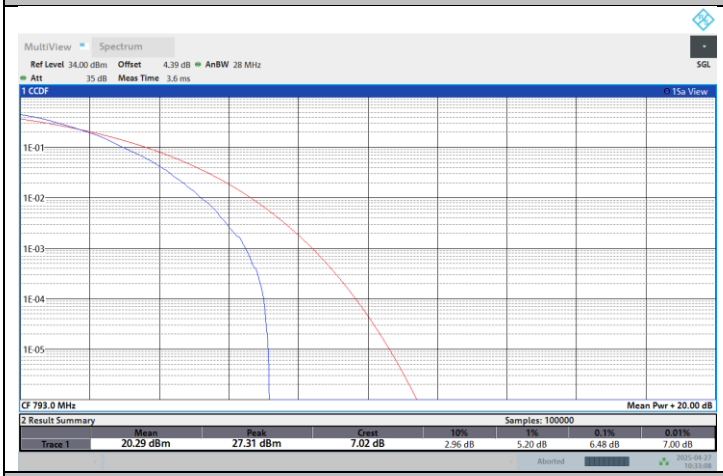
NTNV-N14-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-PASS



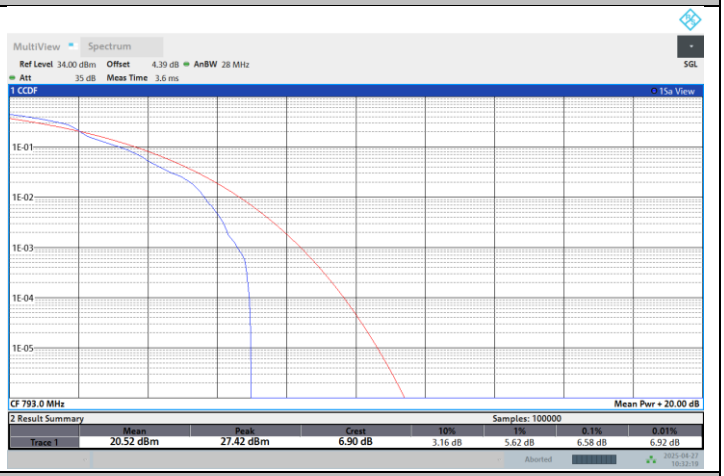
NTNV-N14-PC3-15-5-M-DFT-16QAM-Outer_Full-PASS



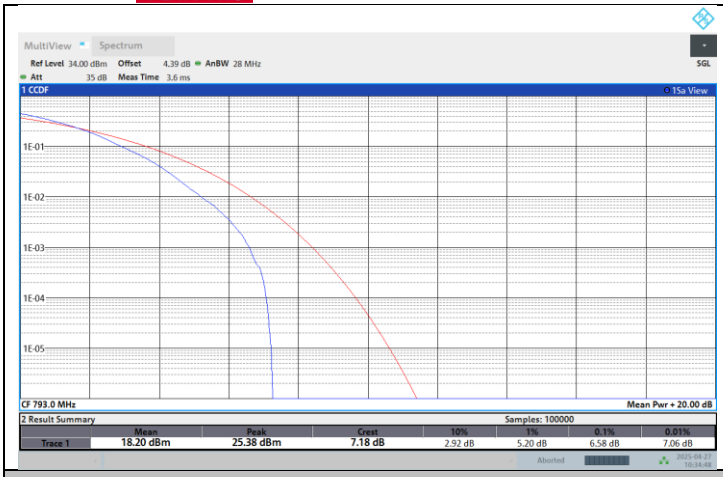
NTNV-N14-PC3-15-5-M-DFT-16QAM-Edge_1RB_Left-PASS



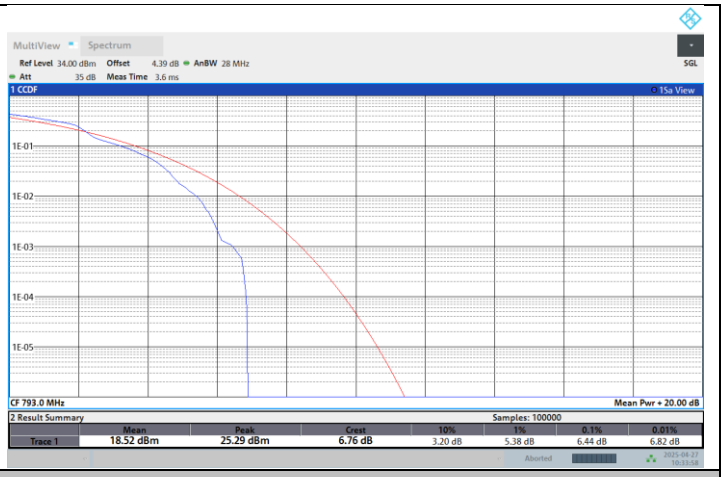
NTNV-N14-PC3-15-5-M-DFT-64QAM-Outer_Full-PASS



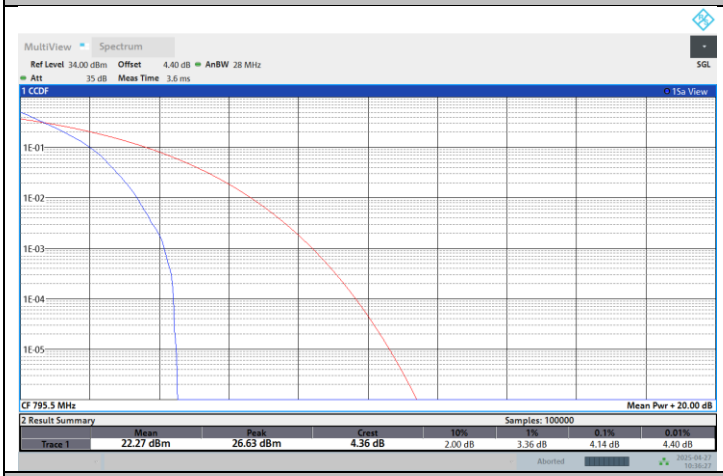
NTNV-N14-PC3-15-5-M-DFT-64QAM-Edge_1RB_Left-PASS



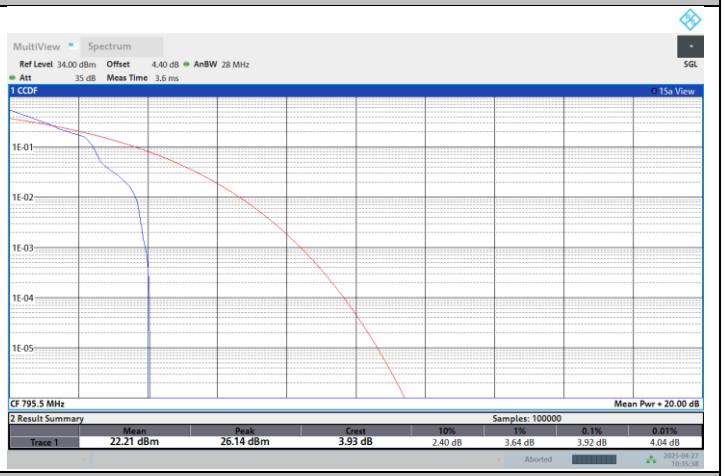
NTNV-N14-PC3-15-5-M-DFT-256QAM-Outer_Full-PASS



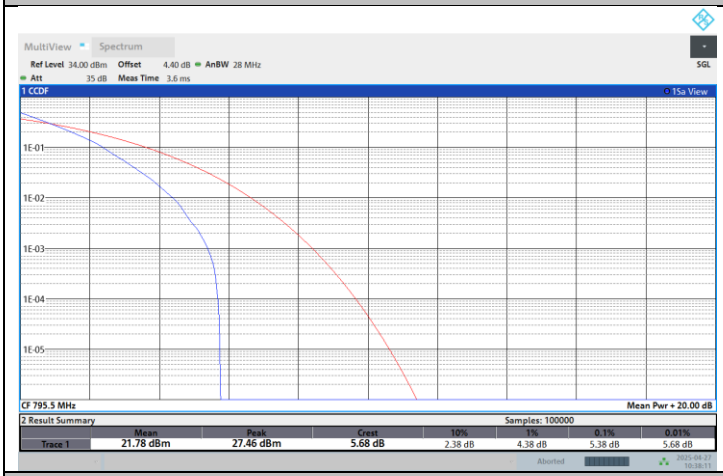
NTNV-N14-PC3-15-5-M-DFT-256QAM-Edge_1RB_Left-PASS



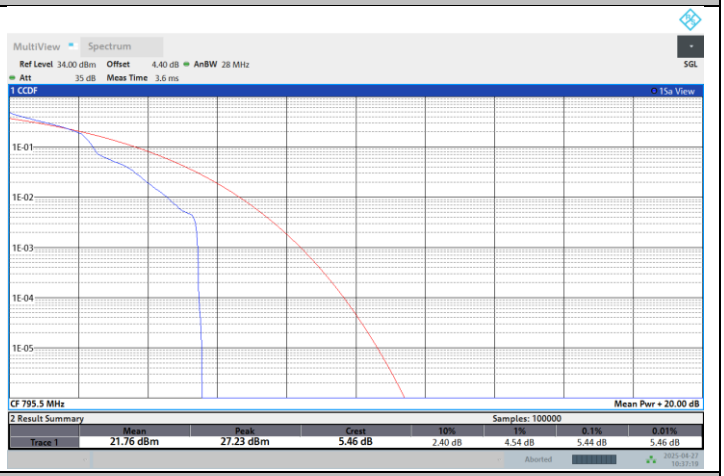
NTNV-N14-PC3-15-5-H-DFT-PI2BPSK-Outer_Full-PASS



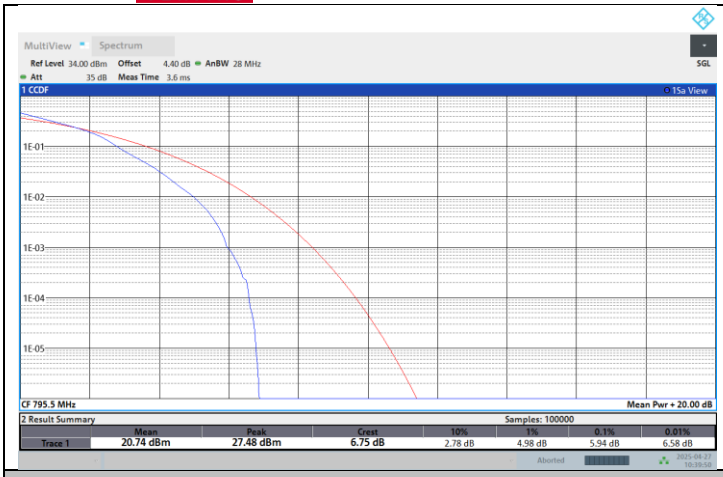
NTNV-N14-PC3-15-5-H-DFT-PI2BPSK-Edge_1RB_Left-PASS



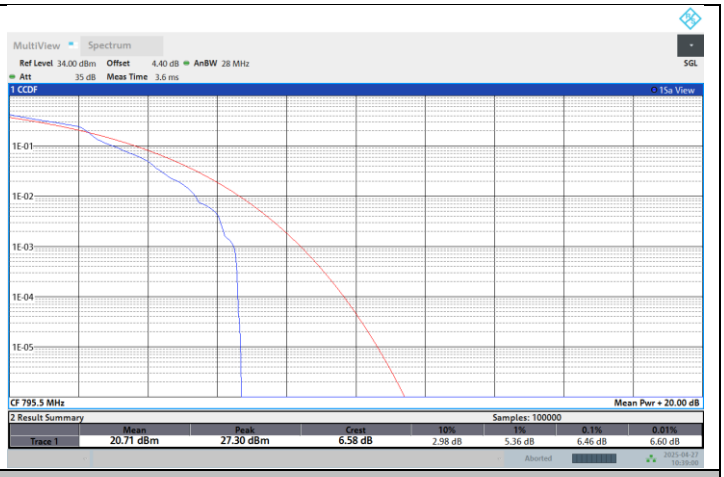
NTNV-N14-PC3-15-5-H-DFT-QPSK-Outer_Full-PASS



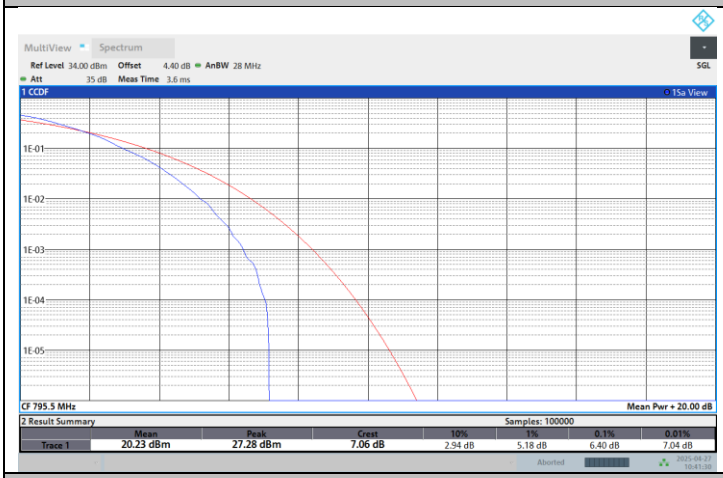
NTNV-N14-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-PASS



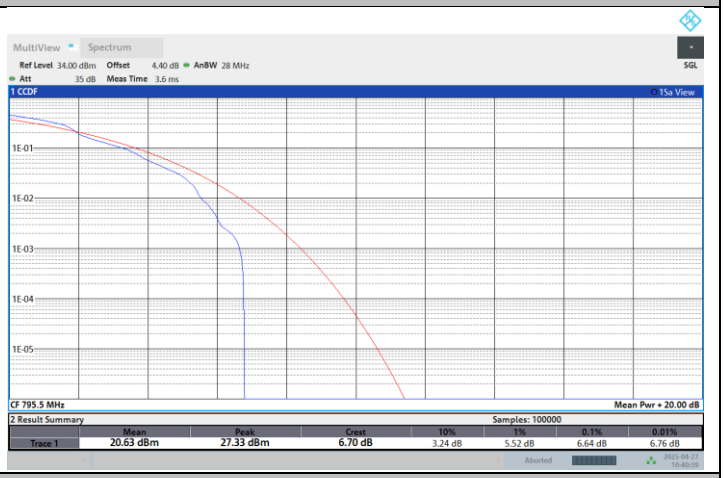
NTNV-N14-PC3-15-5-H-DFT-16QAM-Outer_Full-PASS



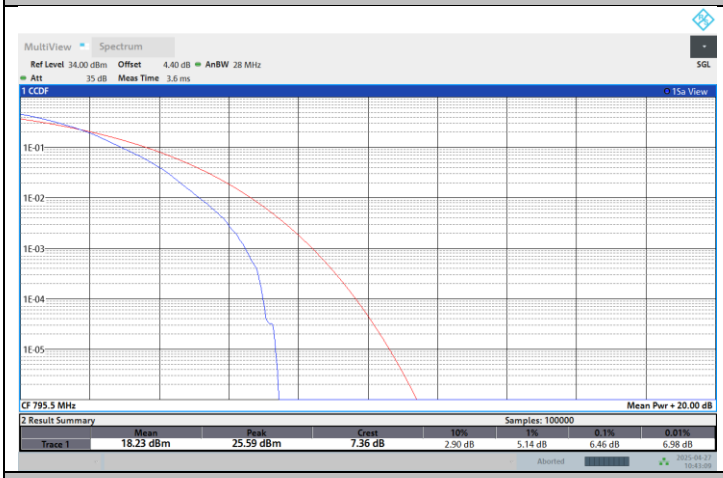
NTNV-N14-PC3-15-5-H-DFT-16QAM-Edge_1RB_Left-PASS



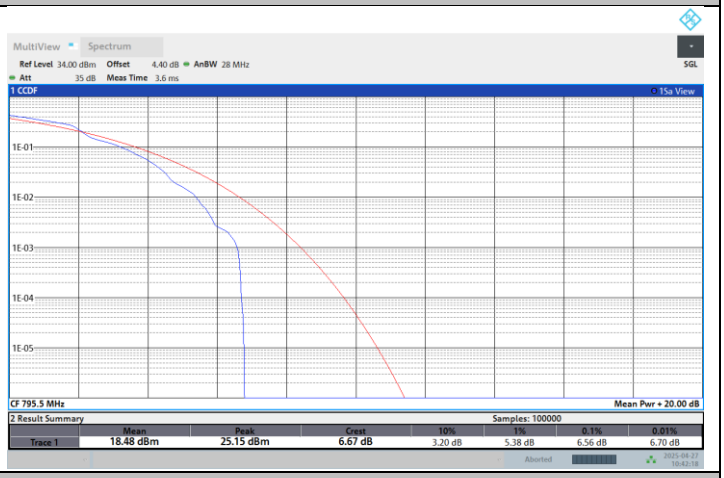
NTNV-N14-PC3-15-5-H-DFT-64QAM-Outer_Full-PASS



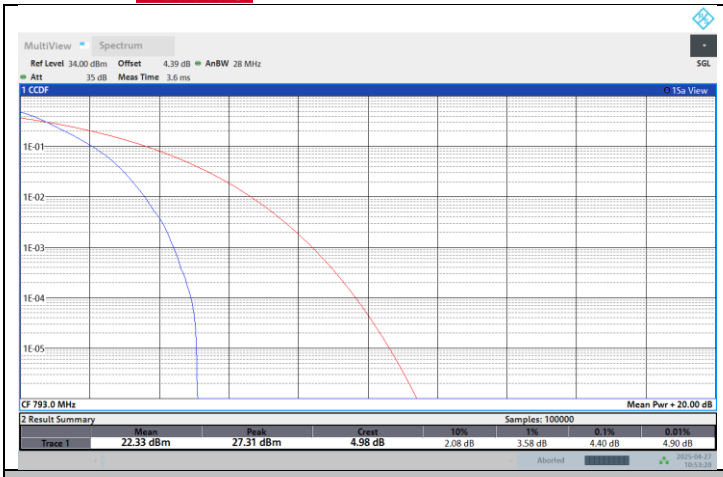
NTNV-N14-PC3-15-5-H-DFT-64QAM-Edge_1RB_Left-PASS



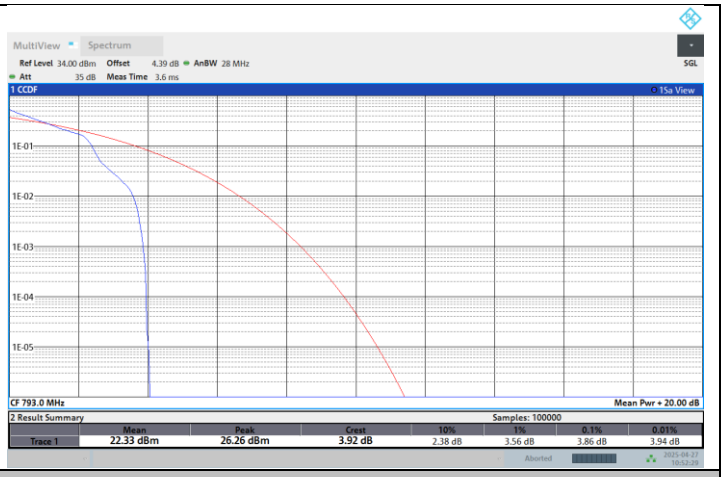
NTNV-N14-PC3-15-5-H-DFT-256QAM-Outer_Full-PASS



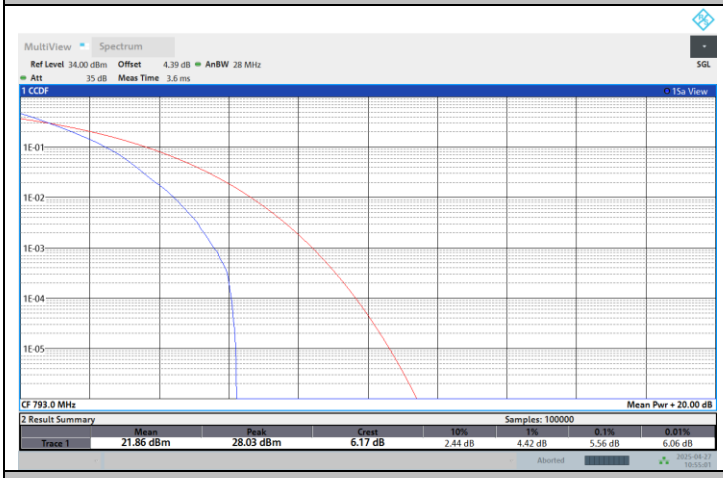
NTNV-N14-PC3-15-5-H-DFT-256QAM-Edge_1RB_Left-PASS



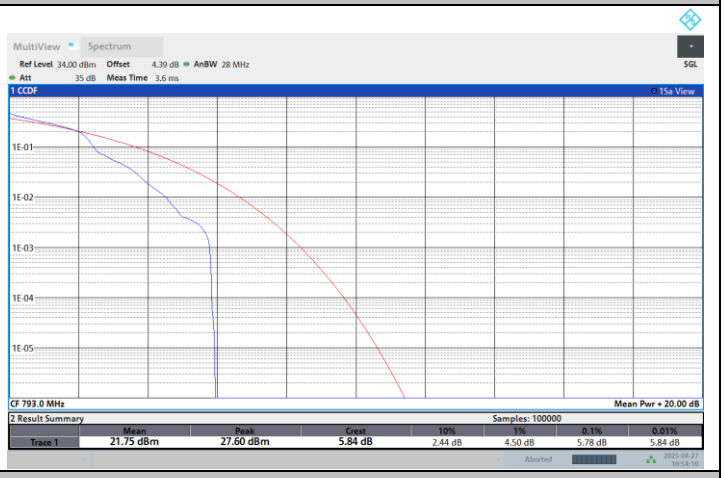
NTNV-N14-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-PASS



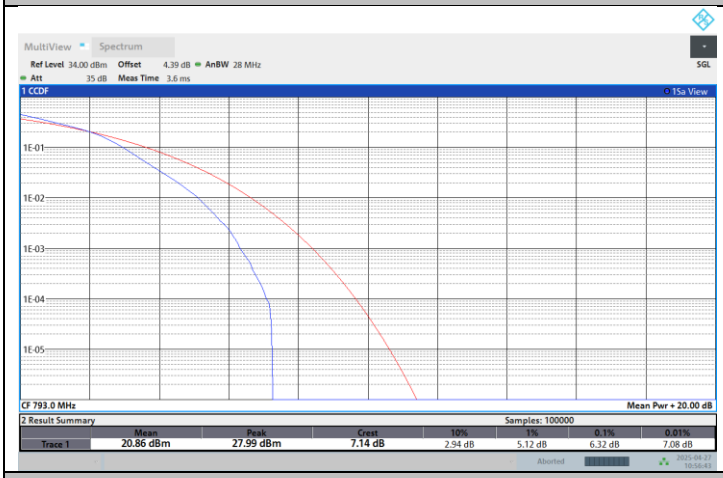
NTNV-N14-PC3-15-10-M-DFT-PI2BPSK-Edge_1RB_Left-PASS



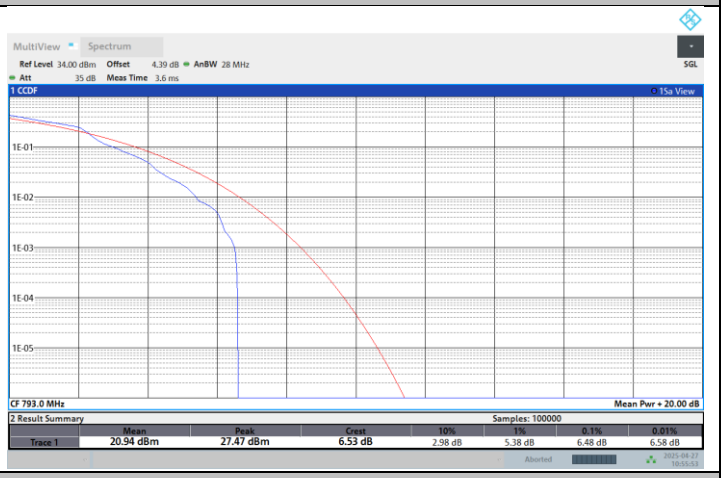
NTNV-N14-PC3-15-10-M-DFT-QPSK-Outer_Full-PASS



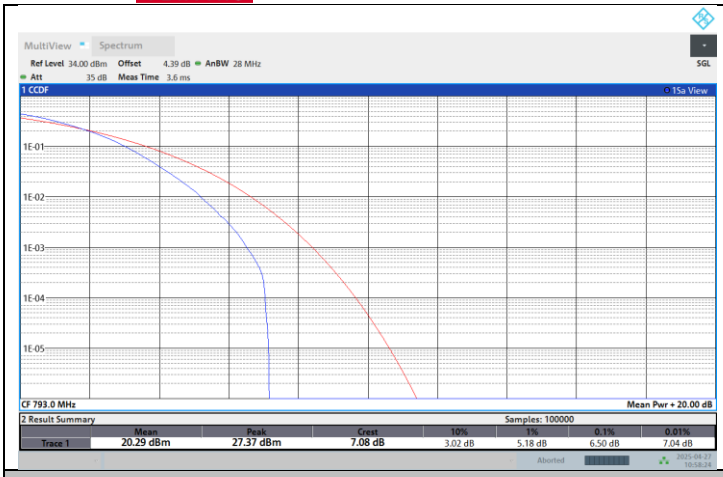
NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-PASS



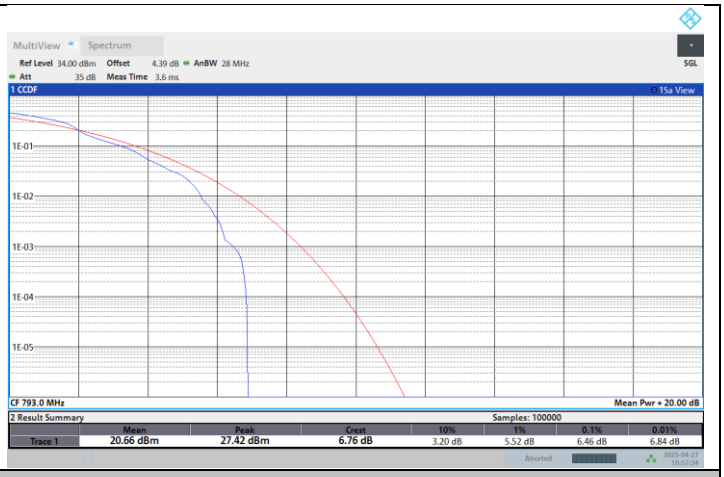
NTNV-N14-PC3-15-10-M-DFT-16QAM-Outer_Full-PASS



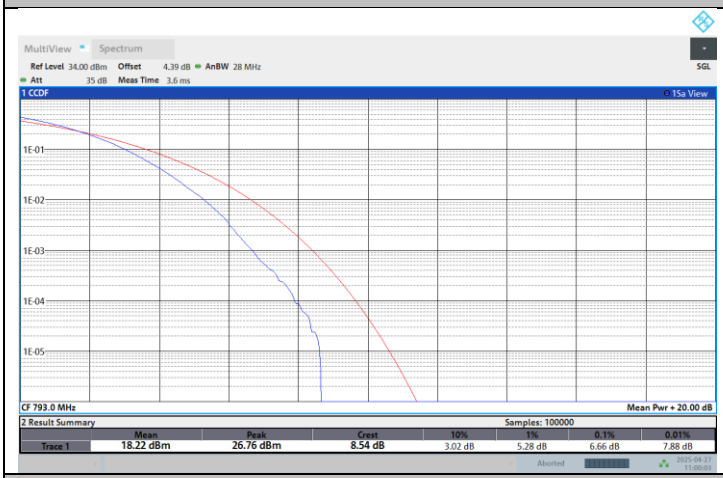
NTNV-N14-PC3-15-10-M-DFT-16QAM-Edge_1RB_Left-PASS



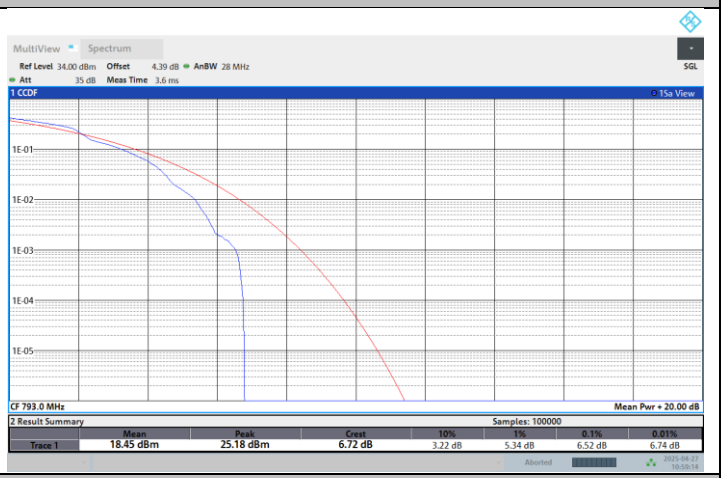
NTNV-N14-PC3-15-10-M-DFT-64QAM-Outer_Full-PASS



NTNV-N14-PC3-15-10-M-DFT-64QAM-Edge_1RB_Left-PASS



NTNV-N14-PC3-15-10-M-DFT-256QAM-Outer_Full-PASS



NTNV-N14-PC3-15-10-M-DFT-256QAM-Edge_1RB_Left-PASS

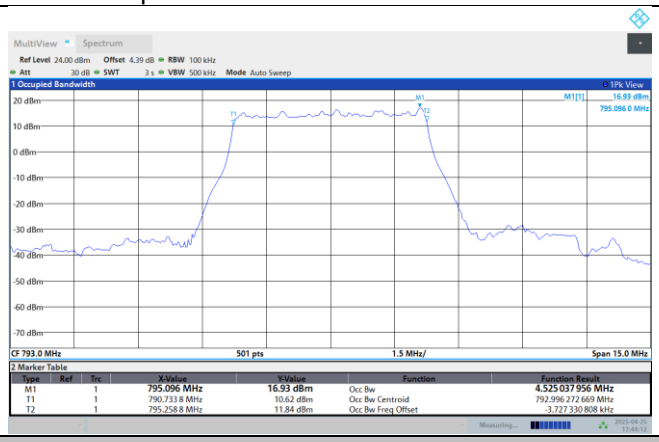
26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

Test Result

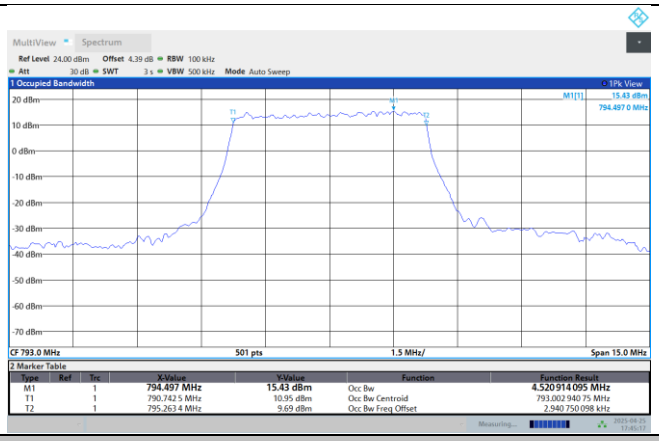
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.525	5.18	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	4.521	5.14	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	4.543	5.28	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	4.519	5.16	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	4.518	5.16	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	9.020	9.95	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	8.994	9.83	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	8.976	9.92	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	9.024	9.89	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	9.014	9.86	PASS

Test Graphs

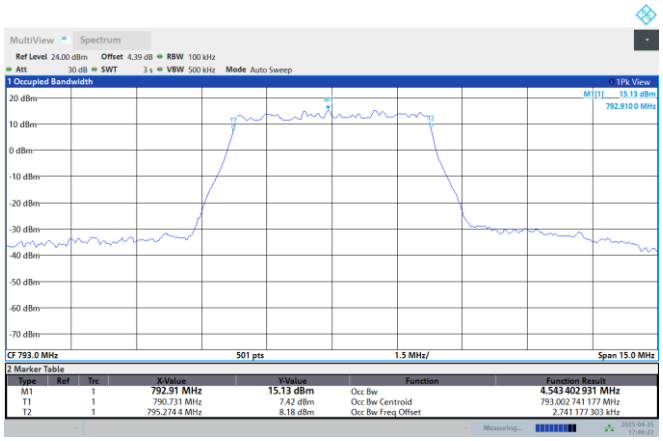
Occupied Bandwidth



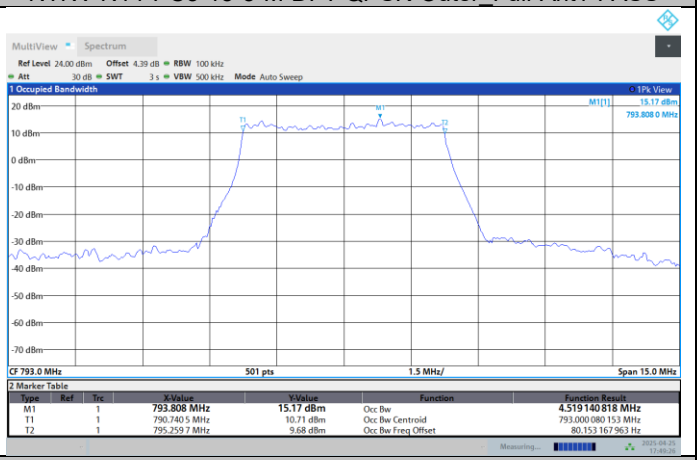
NTNV-N14-PC3-15-5-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



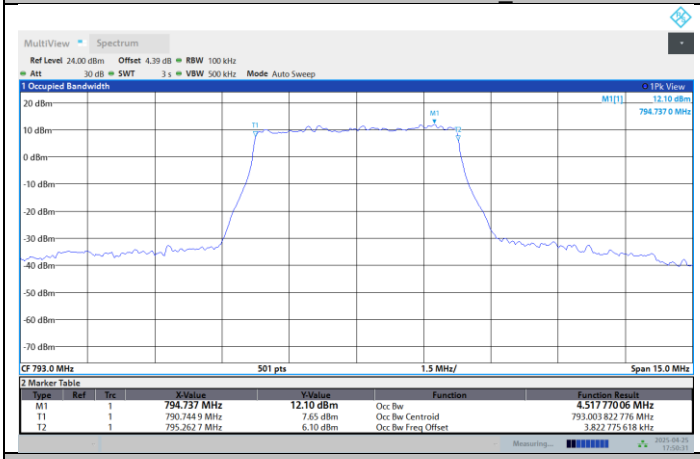
NTNV-N14-PC3-15-5-M-DFT-QPSK-Outer_Full-Ant1-PASS



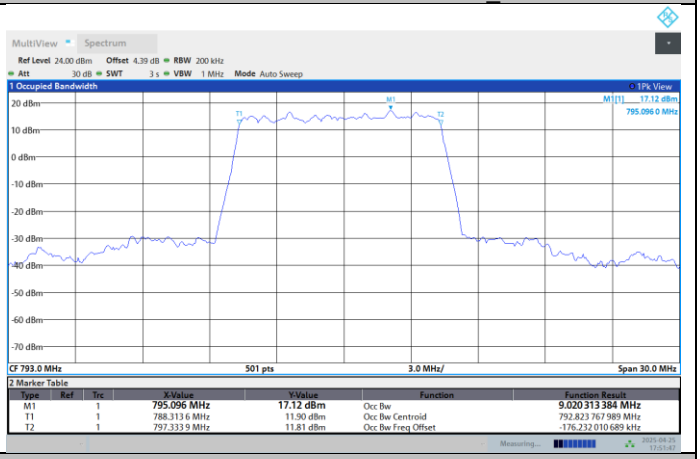
NTNV-N14-PC3-15-5-M-DFT-16QAM-Outer_Full-Ant1-PASS



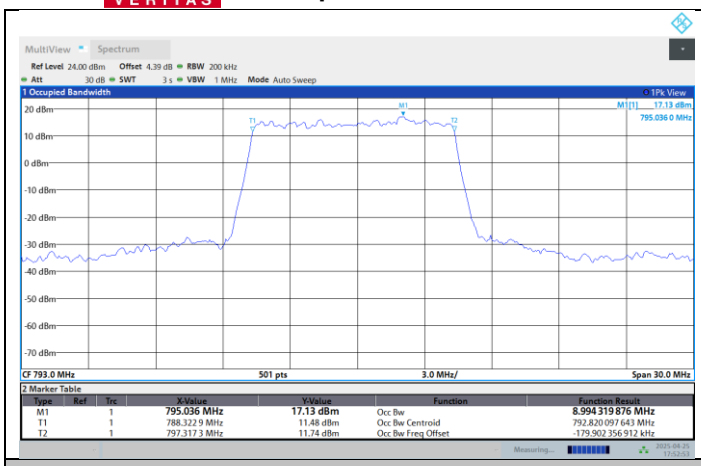
NTNV-N14-PC3-15-5-M-DFT-64QAM-Outer_Full-Ant1-PASS



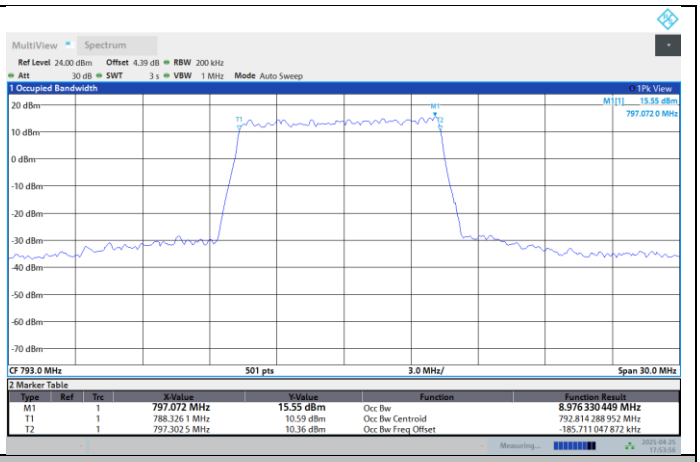
NTNV-N14-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant1-PASS



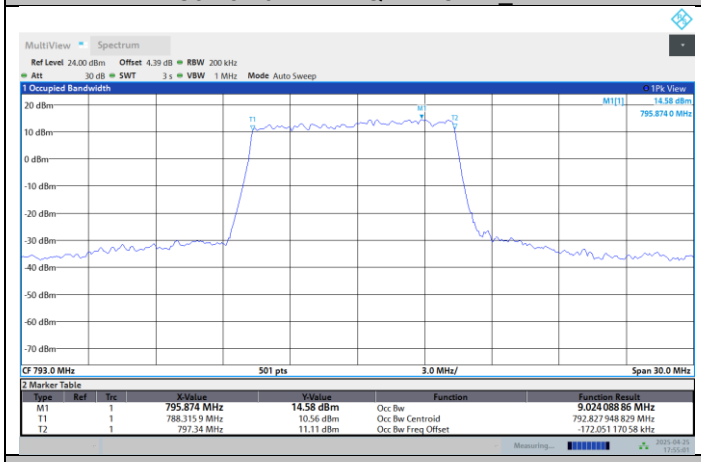
NTNV-N14-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



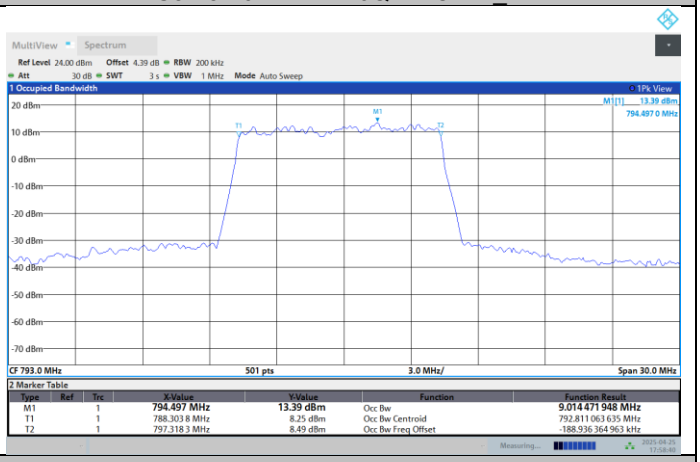
NTNV-N14-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-N14-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant1-PASS

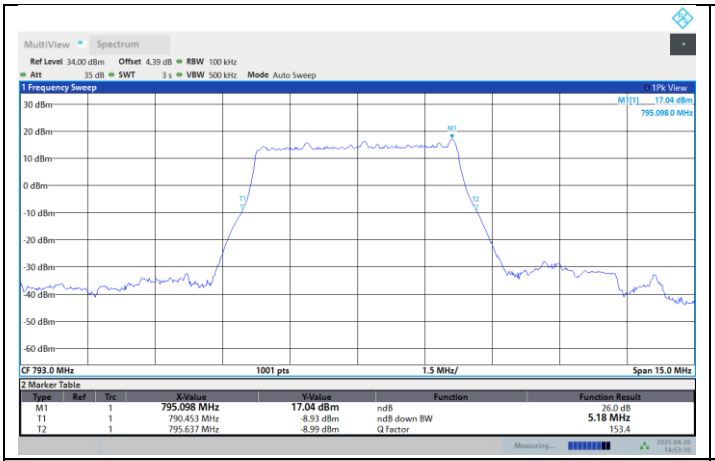


NTNV-N14-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant1-PASS

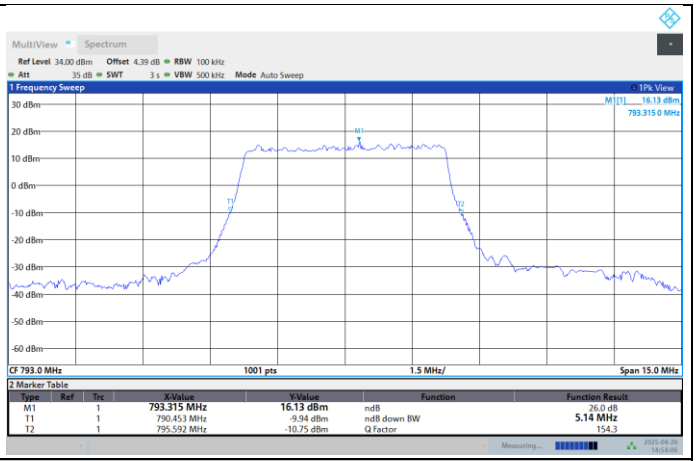


NTNV-N14-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant1-PASS

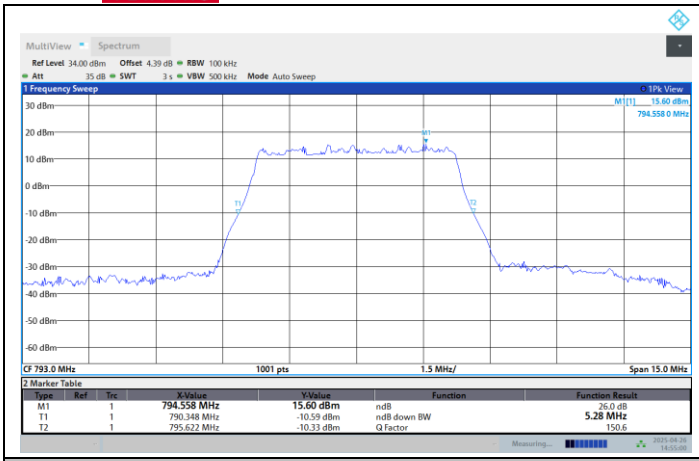
26dB Bandwidth



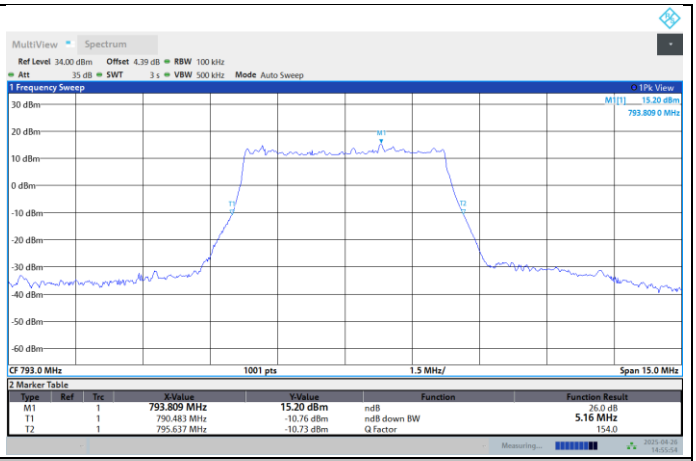
NTNV-N14-PC3-15-5-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



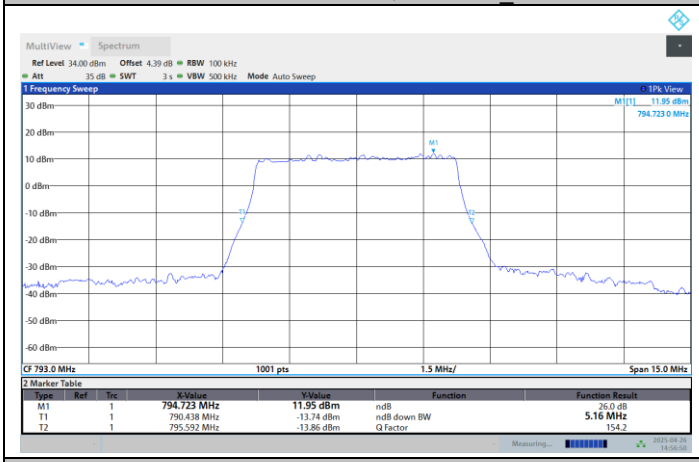
NTNV-N14-PC3-15-5-M-DFT-QPSK-Outer_Full-Ant1-PASS



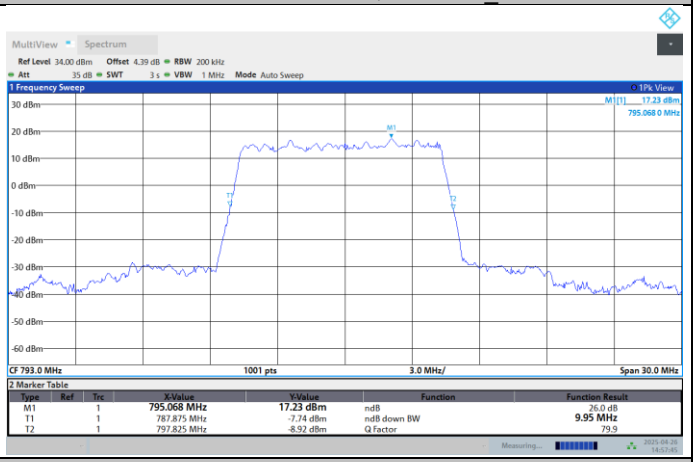
NTNV-N14-PC3-15-5-M-DFT-16QAM-Outer_Full-Ant1-PASS



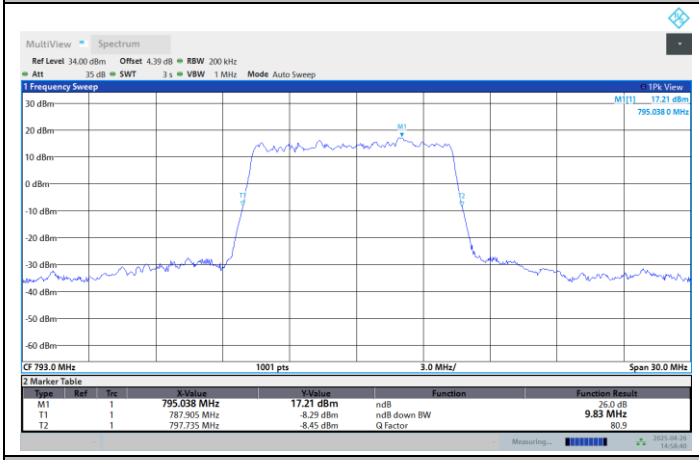
NTNV-N14-PC3-15-5-M-DFT-64QAM-Outer_Full-Ant1-PASS



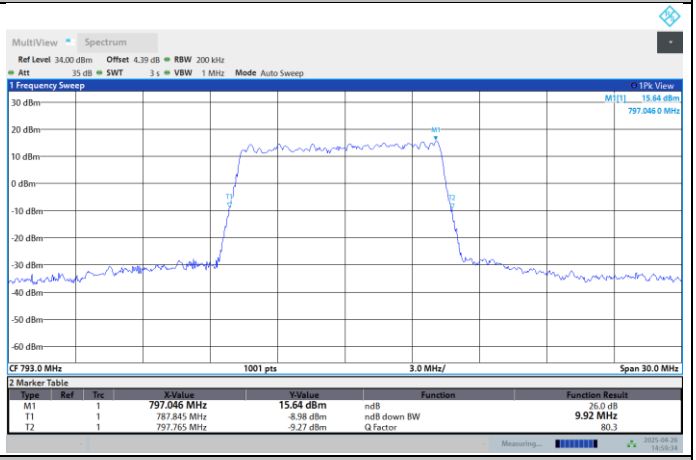
NTNV-N14-PC3-15-5-M-DFT-256QAM-Outer_Full-Ant1-PASS



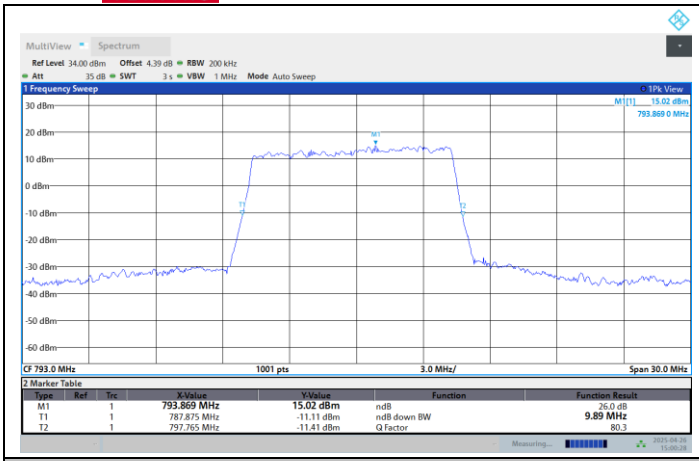
NTNV-N14-PC3-15-10-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



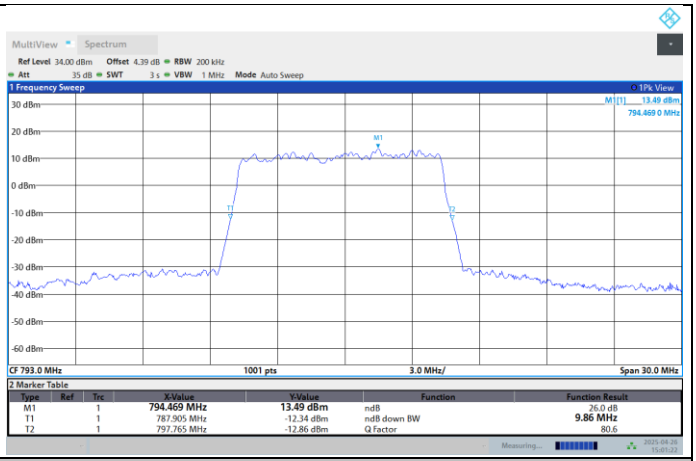
NTNV-N14-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-N14-PC3-15-10-M-DFT-16QAM-Outer_Full-Ant1-PASS



NTNV-N14-PC3-15-10-M-DFT-64QAM-Outer_Full-Ant1-PASS



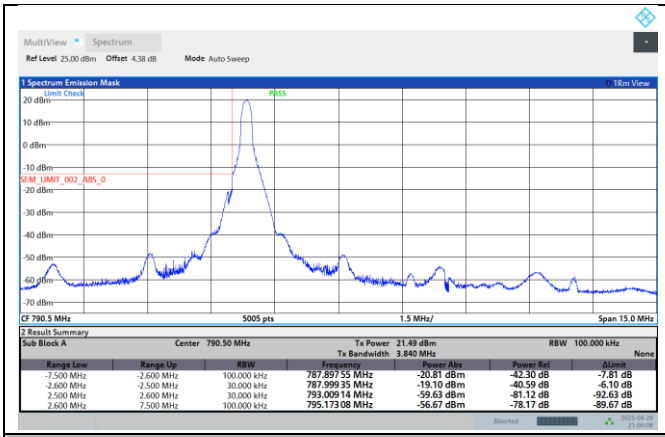
NTNV-N14-PC3-15-10-M-DFT-256QAM-Outer_Full-Ant1-PASS

BAND EDGE FOR SA

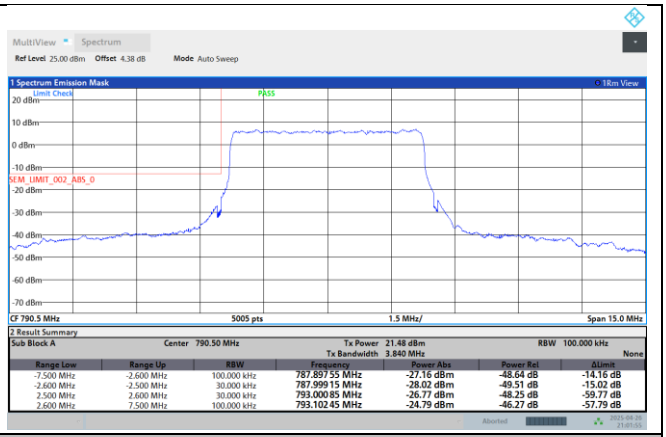
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N14	15	5	DFT-QPSK	L	Edge_1RB_Left	See Graph	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	See Graph	PASS
N14	15	5	DFT-QPSK	H	Edge_1RB_Right	See Graph	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	See Graph	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Left	See Graph	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	See Graph	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Right	See Graph	PASS

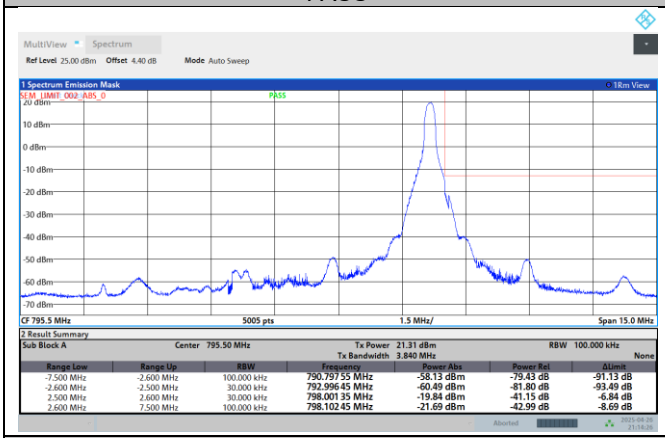
Test Graphs



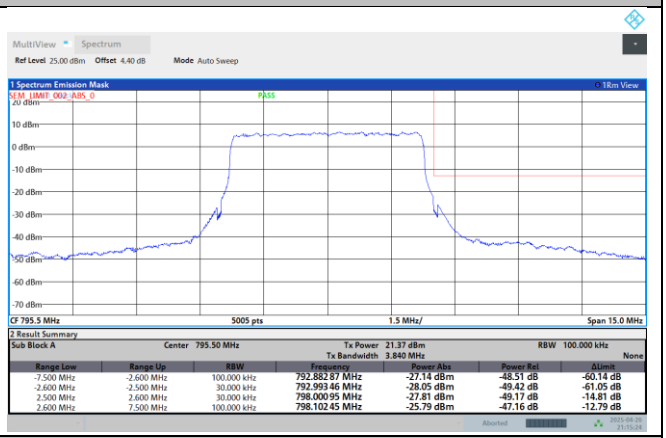
NTNV-N14-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



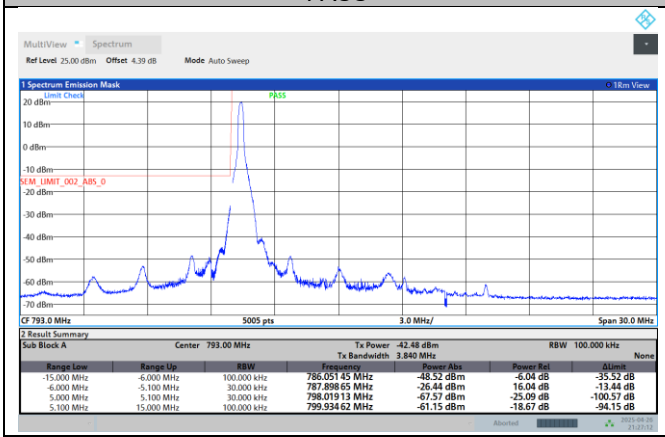
NTNV-N14-PC3-15-5-L-DFT-QPSK-Outer_Full-Ant1-PASS



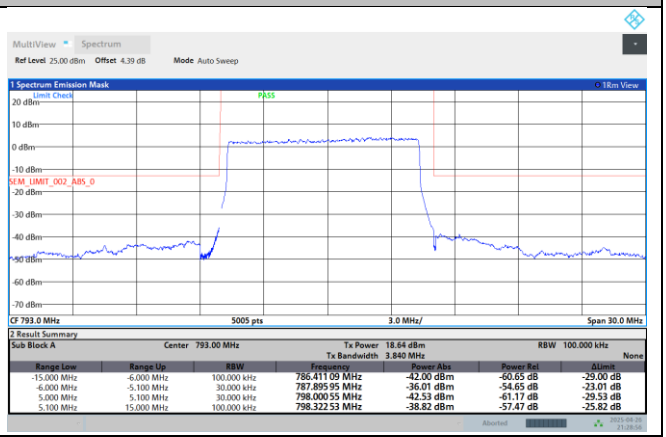
NTNV-N14-PC3-15-5-H-DFT-QPSK-Edge_1RB_Right-Ant1-PASS



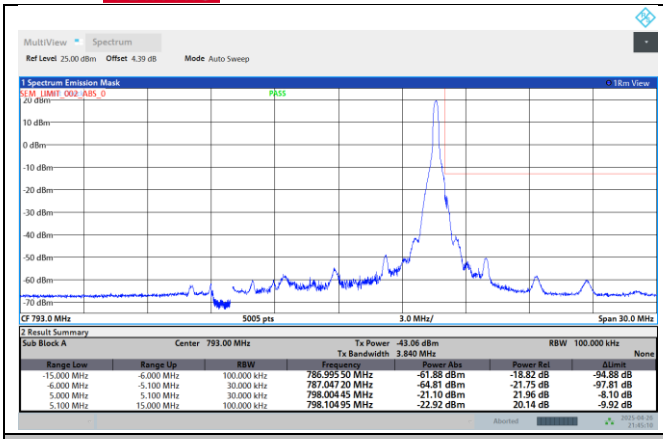
NTNV-N14-PC3-15-5-H-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N14-PC3-15-10-M-DFT-QPSK-Outer_Full-Ant1-PASS



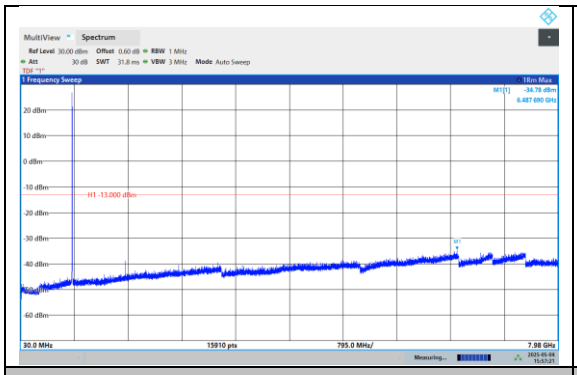
NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Right-Ant1-PASS

CONDUCTED SPURIOUS EMISSION FOR SA

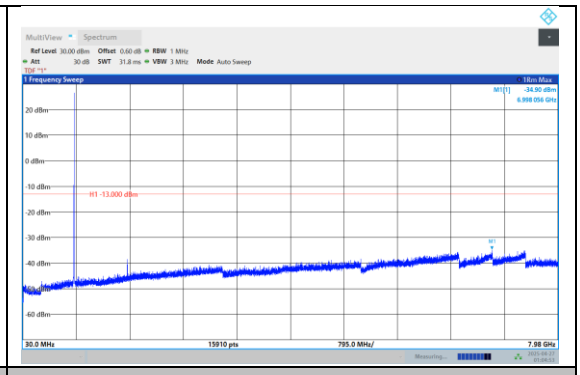
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N14	15	5	DFT-QPSK	L	Edge_1RB_Left	30	7980	See Graph	-13	PASS
N14	15	5	DFT-QPSK	M	Edge_1RB_Left	30	7980	See Graph	-13	PASS
N14	15	5	DFT-QPSK	H	Edge_1RB_Left	30	7980	See Graph	-13	PASS
N14	15	10	DFT-QPSK	M	Edge_1RB_Left	30	7980	See Graph	-13	PASS

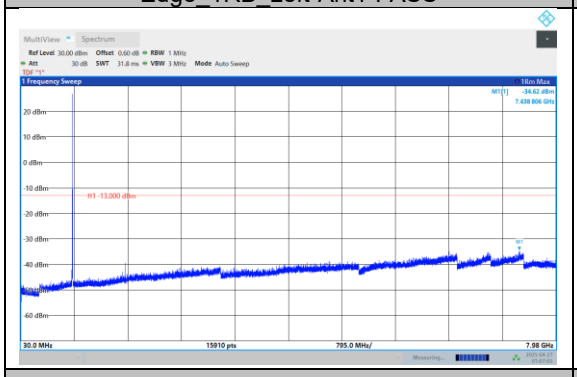
Test Graphs



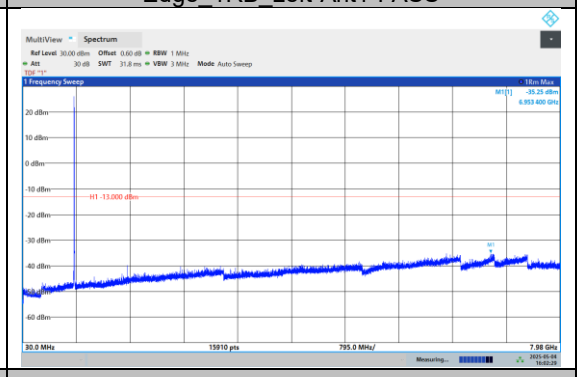
NTNV-N14-PC3-15-5-L-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N14-PC3-15-5-M-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N14-PC3-15-5-H-DFT-QPSK-Edge_1RB_Left-Ant1-PASS



NTNV-N14-PC3-15-10-M-DFT-QPSK-Edge_1RB_Left-Ant1-PASS

FREQUENCY STABILITY FOR SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-QPSK	M	Outer_Full	VL	NT	9.98	0.0126	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	VN	NT	10.95	0.0138	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	VH	NT	10.09	0.0127	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-QPSK	M	Outer_Full	NV	-30	4.52	0.0057	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	-20	12.76	0.0161	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	-10	-16.98	-0.0214	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	0	-11.03	-0.0139	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	10	-23.53	-0.0297	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	20	-9.08	-0.0115	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	30	8.45	0.0107	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	40	-7.48	-0.0094	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	50	-6.07	-0.0077	PASS

---END---