



### Conducted Spurious Emission for MIMO

#### Test Result-ANT2

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N41	30	20	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.10	-25	PASS
N41	30	20	CP-QPSK	L	Edge_1RB_Left	1000	27000	-28.47	-25	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.11	-25	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	1000	27000	-28.39	-25	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.22	-25	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	1000	27000	-28.10	-25	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.31	-25	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Left	1000	27000	-28.48	-25	PASS
N41	30	60	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.05	-25	PASS
N41	30	60	CP-QPSK	M	Edge_1RB_Left	1000	27000	-28.47	-25	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.20	-25	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Left	1000	27000	-28.44	-25	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Left	30	1000	-44.87	-25	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Left	1000	27000	-28.36	-25	PASS
N41	30	100	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.35	-25	PASS
N41	30	100	CP-QPSK	M	Edge_1RB_Left	1000	27000	-28.17	-25	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.31	-25	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Left	1000	27000	-28.41	-25	PASS

#### Test Result-ANT0

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N41	30	20	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.25	-25	PASS

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N41	30	20	CP-QPSK	L	Edge_1RB_Left	1000	27000	-28.21	-25	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.24	-25	PASS
N41	30	20	CP-QPSK	M	Edge_1RB_Left	1000	27000	-28.41	-25	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.21	-25	PASS
N41	30	20	CP-QPSK	H	Edge_1RB_Left	1000	27000	-28.55	-25	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.28	-25	PASS
N41	30	60	CP-QPSK	L	Edge_1RB_Left	1000	27000	-28.38	-25	PASS
N41	30	60	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.16	-25	PASS
N41	30	60	CP-QPSK	M	Edge_1RB_Left	1000	27000	-28.26	-25	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.18	-25	PASS
N41	30	60	CP-QPSK	H	Edge_1RB_Left	1000	27000	-28.46	-25	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Left	30	1000	-45.24	-25	PASS
N41	30	100	CP-QPSK	L	Edge_1RB_Left	1000	27000	-28.29	-25	PASS
N41	30	100	CP-QPSK	M	Edge_1RB_Left	30	1000	-45.05	-25	PASS
N41	30	100	CP-QPSK	M	Edge_1RB_Left	1000	27000	-28.33	-25	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Left	30	1000	-45.25	-25	PASS
N41	30	100	CP-QPSK	H	Edge_1RB_Left	1000	27000	-28.02	-25	PASS

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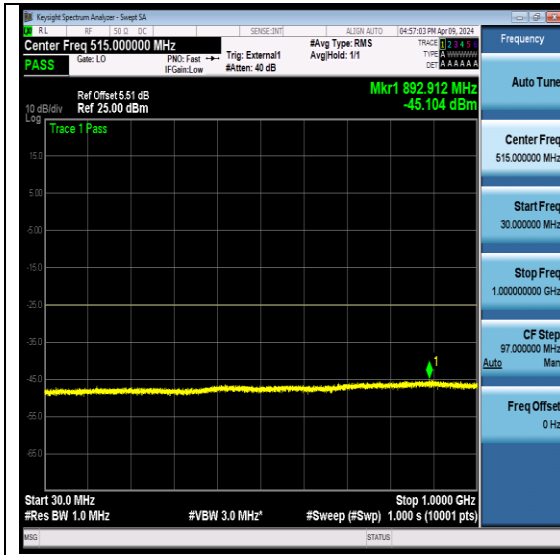
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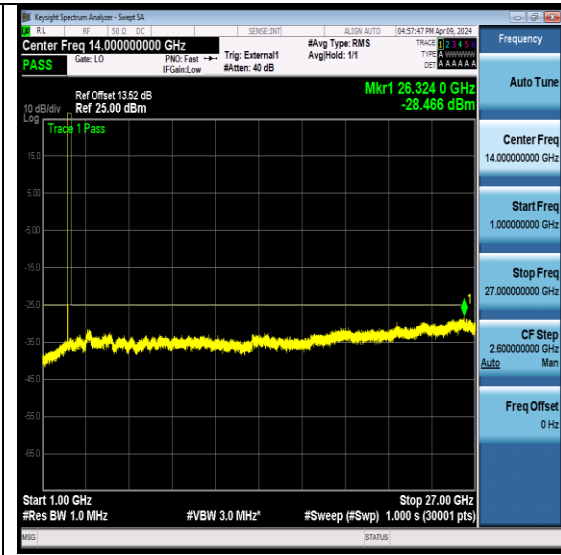
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### Test Graphs-Ant2



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NTN-N41-PC2-30-20-L-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS



NTN-N41-PC2-30-20-M-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS



NTN-N41-PC2-30-20-M-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS

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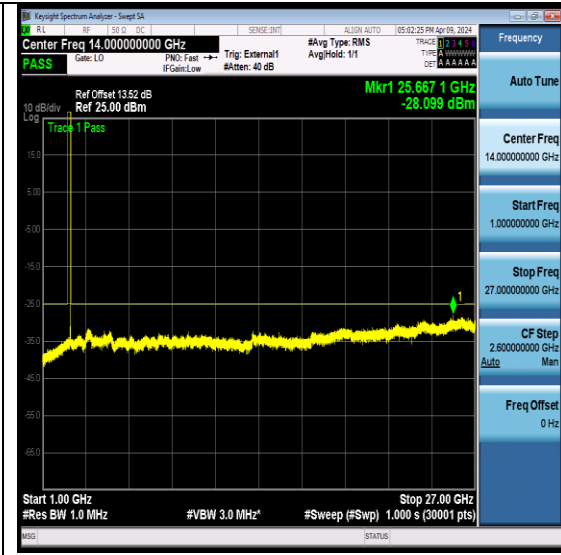


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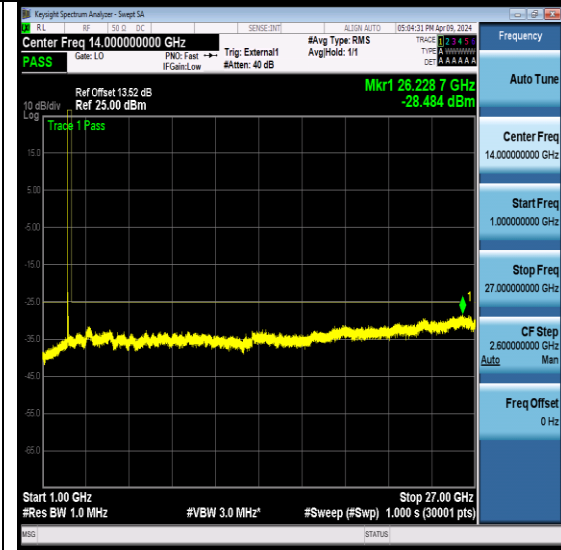
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NTNV-N41-PC2-30-20-H-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS



NTNV-N41-PC2-30-60-L-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS



NTNV-N41-PC2-30-60-L-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS

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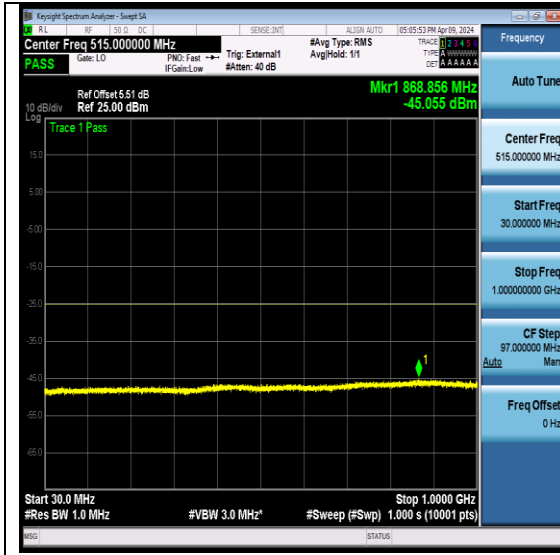
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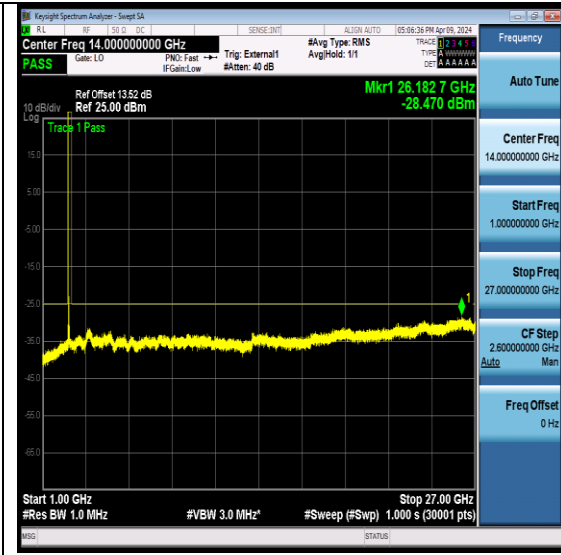


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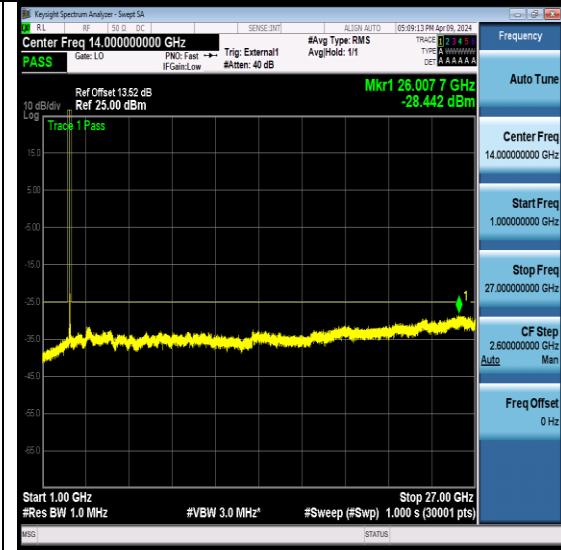
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NTNV-N41-PC2-30-60-H-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS



NTNV-N41-PC2-30-60-H-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS

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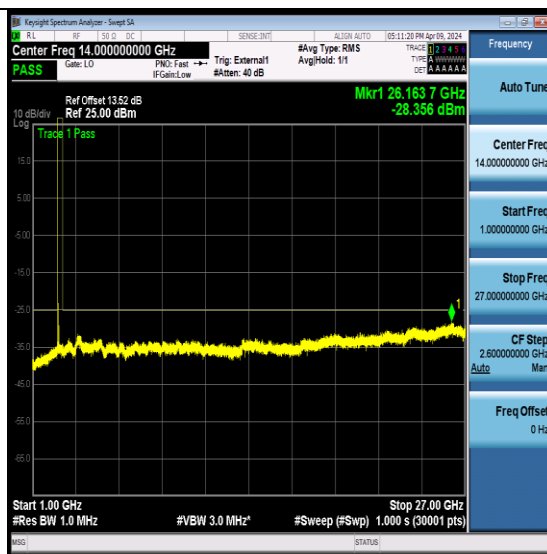


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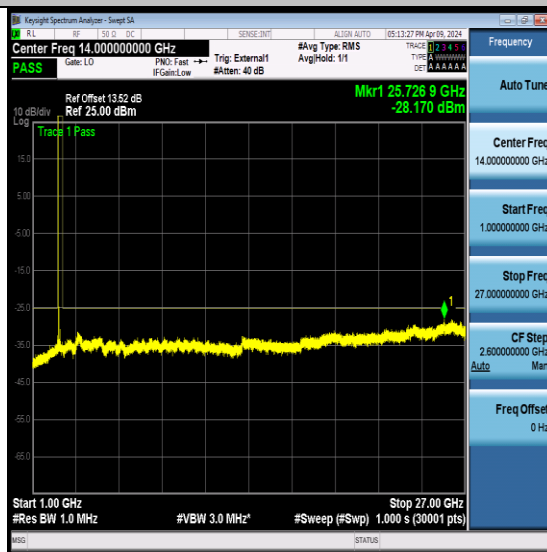
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NTNV-N41-PC2-30-100-M-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS

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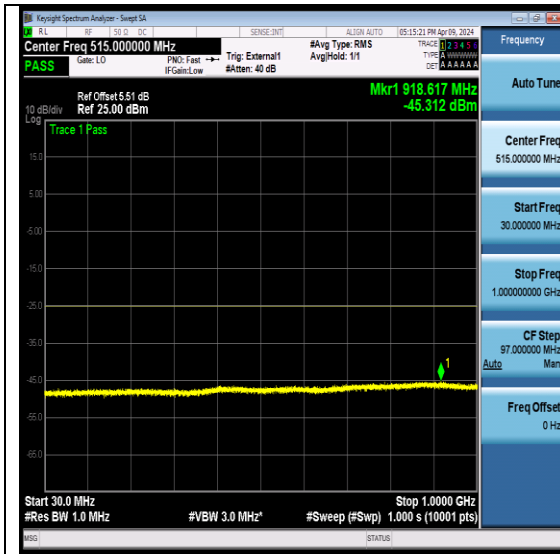
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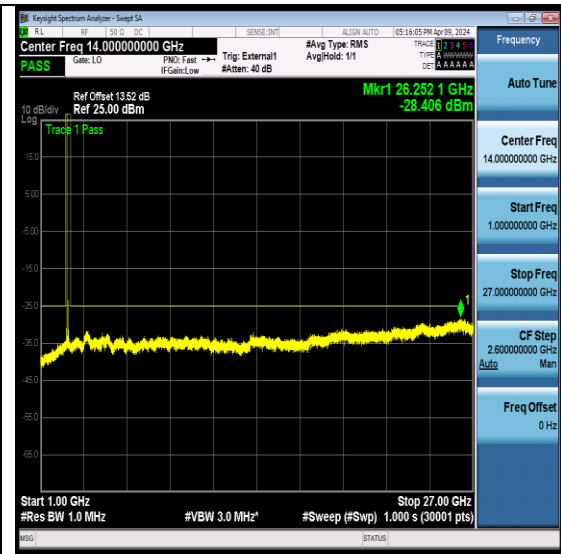


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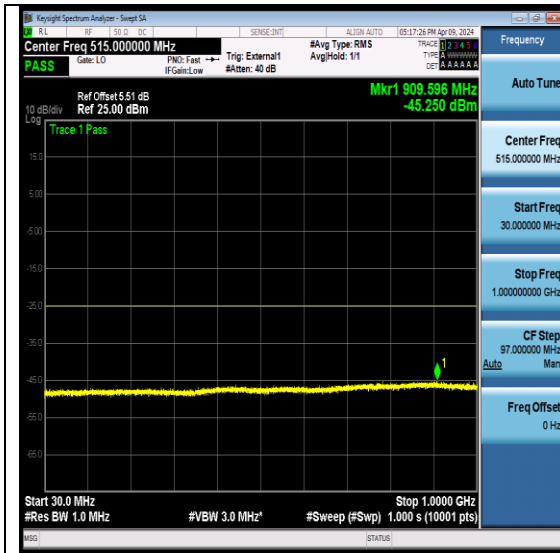


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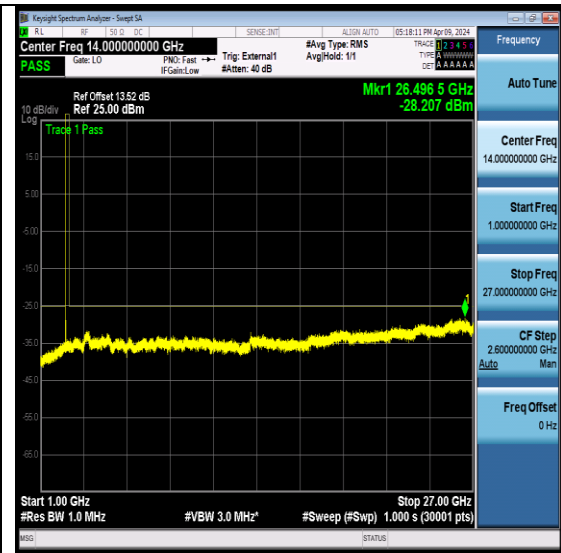


NTVN-N41-PC2-30-100-H-CP-QPSK-Edge\_1RB\_Left-Ant2-PASS

### Test Graphs-Ant0



NTVN-N41-PC2-30-20-L-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS



NTVN-N41-PC2-30-20-L-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS

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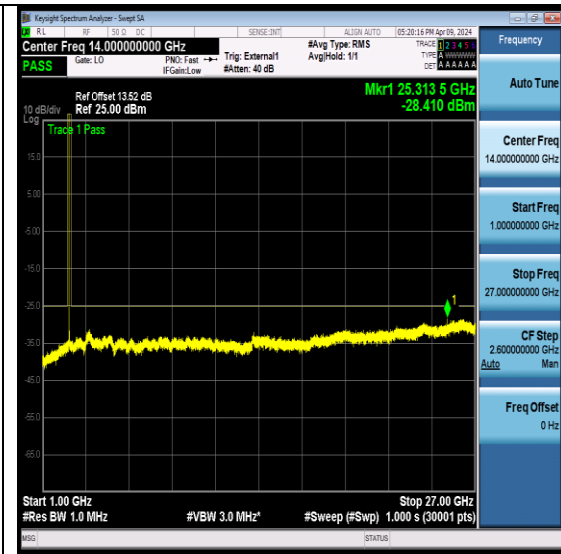


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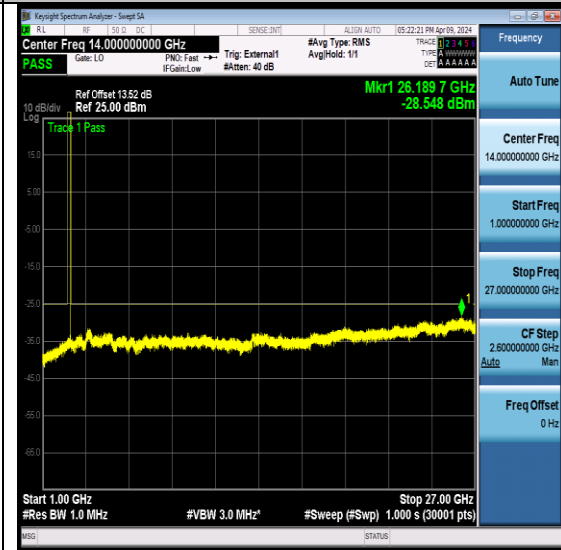
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NTNV-N41-PC2-30-20-H-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS



NTNV-N41-PC2-30-20-H-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS

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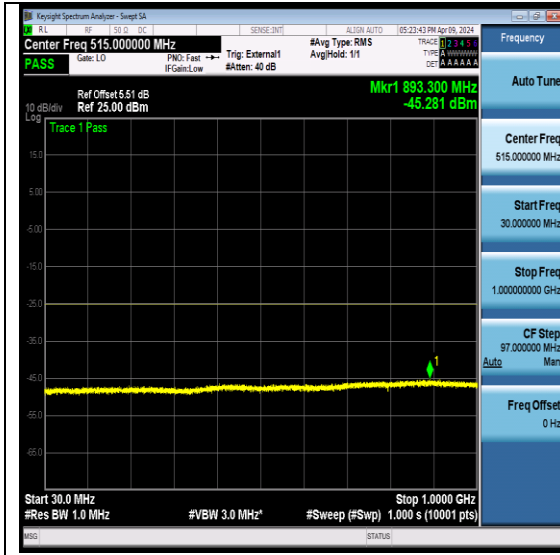
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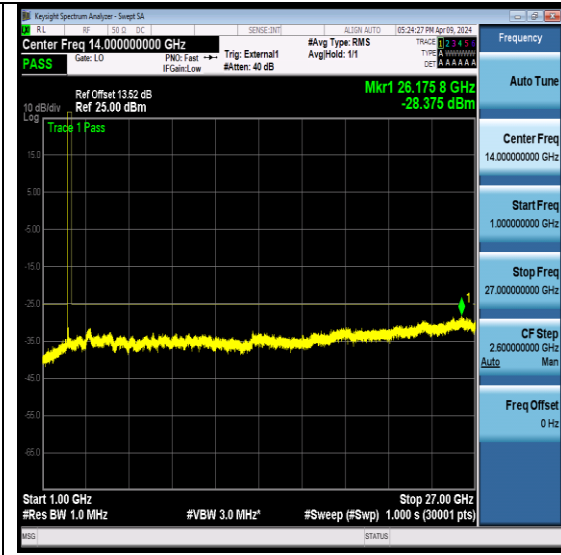


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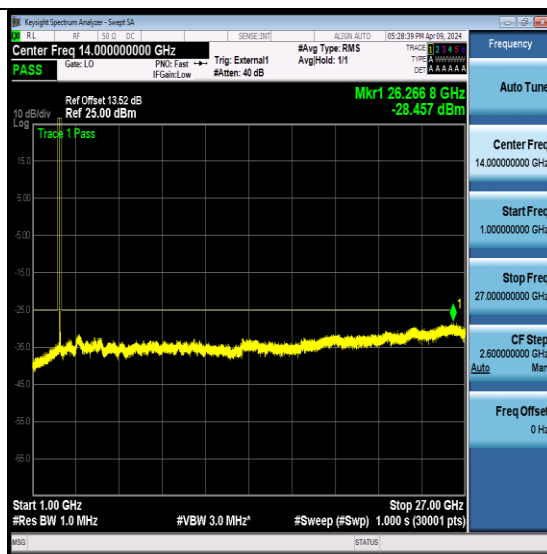


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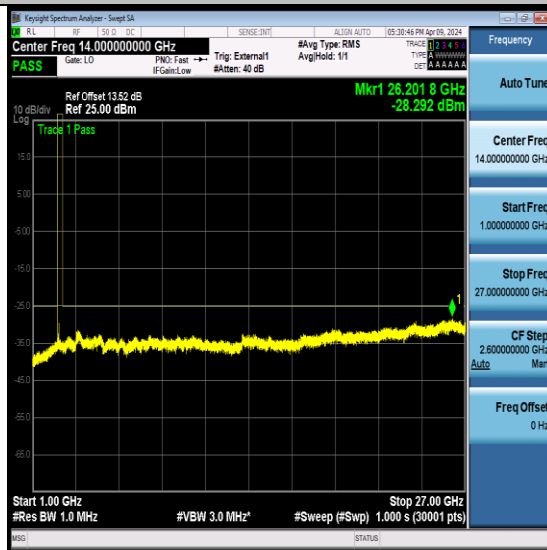
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NTNV-N41-PC2-30-100-L-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS



NTNV-N41-PC2-30-100-L-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS

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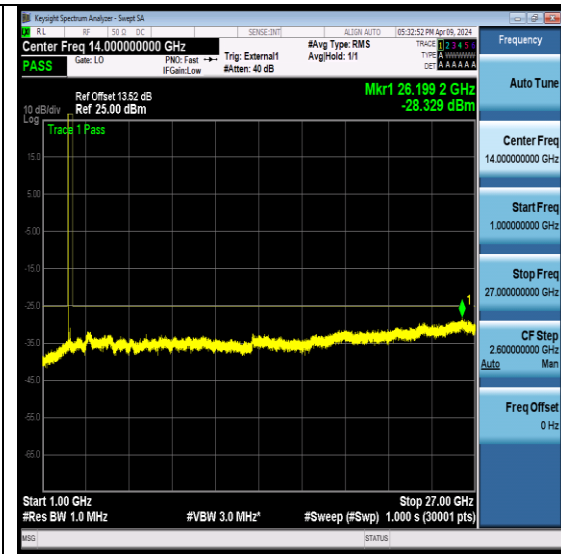


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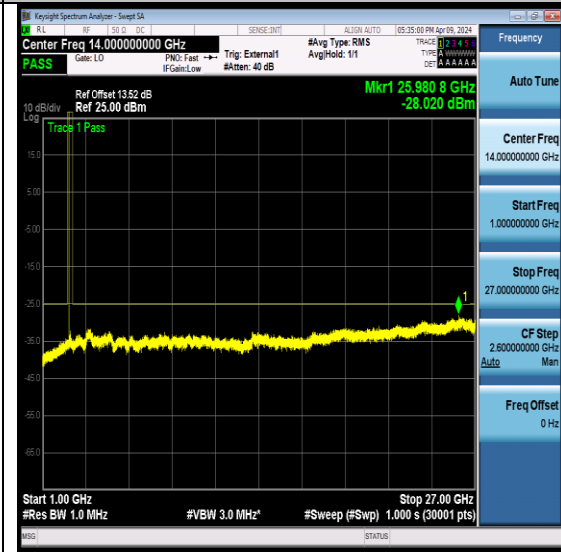
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NTNV-N41-PC2-30-100-H-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS



NTNV-N41-PC2-30-100-H-CP-QPSK-Edge\_1RB\_Left-Ant0-PASS

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# Frequency Stability for MIMO

## Test Result-Ant2

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	VL	NT	2.000000	0.000798	PASS
N41	30	20	CP-QPSK	L	Outer_Full	VN	NT	7.000000	0.002793	PASS
N41	30	20	CP-QPSK	L	Outer_Full	VH	NT	16.000000	0.006385	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	-30	7.000000	0.002793	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	-20	4.000000	0.001596	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	-10	17.000000	0.006784	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	0	14.000000	0.005587	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	10	9.000000	0.003591	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	20	15.000000	0.005986	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	30	2.000000	0.000798	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	40	11.000000	0.004389	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	50	16.000000	0.006385	PASS
N41	30	20	CP-QPSK	M	Outer_Full	VL	NT	14.000000	0.005399	PASS
N41	30	20	CP-QPSK	M	Outer_Full	VN	NT	10.000000	0.003857	PASS
N41	30	20	CP-QPSK	M	Outer_Full	VH	NT	2.000000	0.000771	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	-30	11.000000	0.004242	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	-20	11.000000	0.004242	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	-10	13.000000	0.005014	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	0	15.000000	0.005785	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	10	2.000000	0.000771	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	20	13.000000	0.005014	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	30	3.000000	0.001157	PASS

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N41	30	20	CP-QPSK	M	Outer_Full	NV	40	9.000000	0.003471	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	50	4.000000	0.001543	PASS
N41	30	20	CP-QPSK	H	Outer_Full	VL	NT	18.000000	0.006716	PASS
N41	30	20	CP-QPSK	H	Outer_Full	VN	NT	7.000000	0.002612	PASS
N41	30	20	CP-QPSK	H	Outer_Full	VH	NT	6.000000	0.002239	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	-30	19.000000	0.007090	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	-20	12.000000	0.004478	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	-10	11.000000	0.004104	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	0	18.000000	0.006716	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	10	5.000000	0.001866	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	20	14.000000	0.005224	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	30	1.000000	0.000373	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	40	3.000000	0.001119	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	50	9.000000	0.003358	PASS

### Test Result-Ant0

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	20	CP-QPSK	L	Outer_Full	VL	NT	1.000000	0.000399	PASS
N41	30	20	CP-QPSK	L	Outer_Full	VN	NT	18.000000	0.007183	PASS
N41	30	20	CP-QPSK	L	Outer_Full	VH	NT	17.000000	0.006784	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	-30	7.000000	0.002793	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	-20	6.000000	0.002394	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	-10	12.000000	0.004788	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	0	2.000000	0.000798	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	10	1.000000	0.000399	PASS

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N41	30	20	CP-QPSK	L	Outer_Full	NV	20	6.000000	0.002394	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	30	12.000000	0.004788	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	40	6.000000	0.002394	PASS
N41	30	20	CP-QPSK	L	Outer_Full	NV	50	5.000000	0.001994	PASS
N41	30	20	CP-QPSK	M	Outer_Full	VL	NT	12.000000	0.004628	PASS
N41	30	20	CP-QPSK	M	Outer_Full	VN	NT	10.000000	0.003857	PASS
N41	30	20	CP-QPSK	M	Outer_Full	VH	NT	9.000000	0.003471	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	-30	18.000000	0.006942	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	-20	12.000000	0.004628	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	-10	11.000000	0.004242	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	0	17.000000	0.006556	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	10	7.000000	0.002700	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	20	9.000000	0.003471	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	30	15.000000	0.005785	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	0	5.000000	0.001866	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	10	11.000000	0.004104	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	20	1.000000	0.000373	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	30	4.000000	0.001493	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	40	13.000000	0.004851	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	50	5.000000	0.001866	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	40	15.000000	0.005785	PASS
N41	30	20	CP-QPSK	M	Outer_Full	NV	50	14.000000	0.005399	PASS
N41	30	20	CP-QPSK	H	Outer_Full	VL	NT	11.000000	0.004104	PASS
N41	30	20	CP-QPSK	H	Outer_Full	VN	NT	6.000000	0.002239	PASS
N41	30	20	CP-QPSK	H	Outer_Full	VH	NT	15.000000	0.005597	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	-30	14.000000	0.005224	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	-20	8.000000	0.002985	PASS
N41	30	20	CP-QPSK	H	Outer_Full	NV	-10	19.000000	0.007090	PASS

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## N66

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

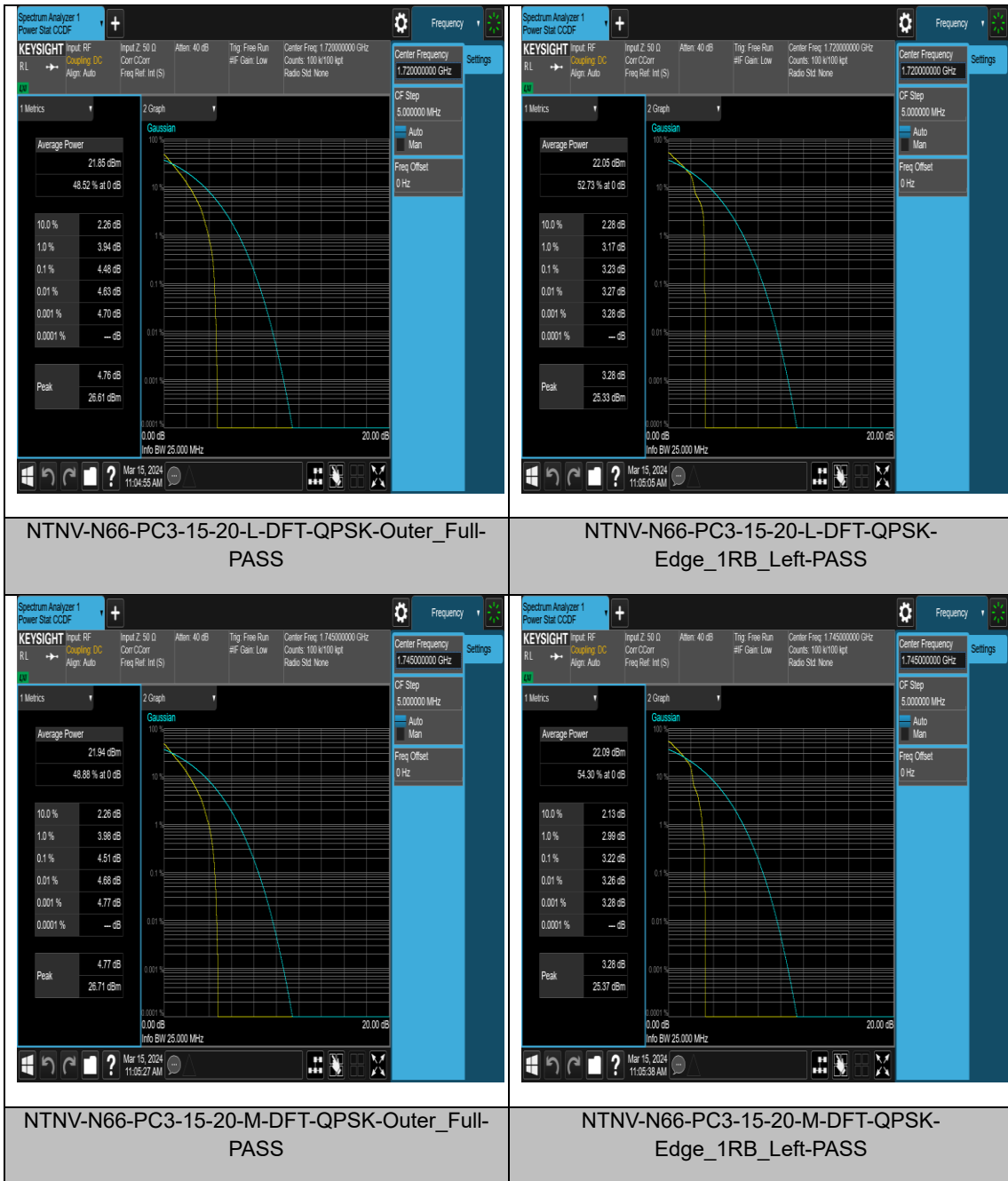
#### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N66	15	20	DFT-QPSK	L	Outer_Full	4.48	≤13	PASS
N66	15	20	DFT-QPSK	L	Edge_1RB_Left	3.23	≤13	PASS
N66	15	20	DFT-QPSK	M	Outer_Full	4.51	≤13	PASS
N66	15	20	DFT-QPSK	M	Edge_1RB_Left	3.22	≤13	PASS
N66	15	20	DFT-QPSK	H	Outer_Full	4.46	≤13	PASS
N66	15	20	DFT-QPSK	H	Edge_1RB_Left	3.41	≤13	PASS





### Test Graphs





NTNV-N66-PC3-15-20-H-DFT-QPSK-Outer\_Full-PASS



NTNV-N66-PC3-15-20-H-DFT-QPSK-Edge\_1RB\_Left-PASS



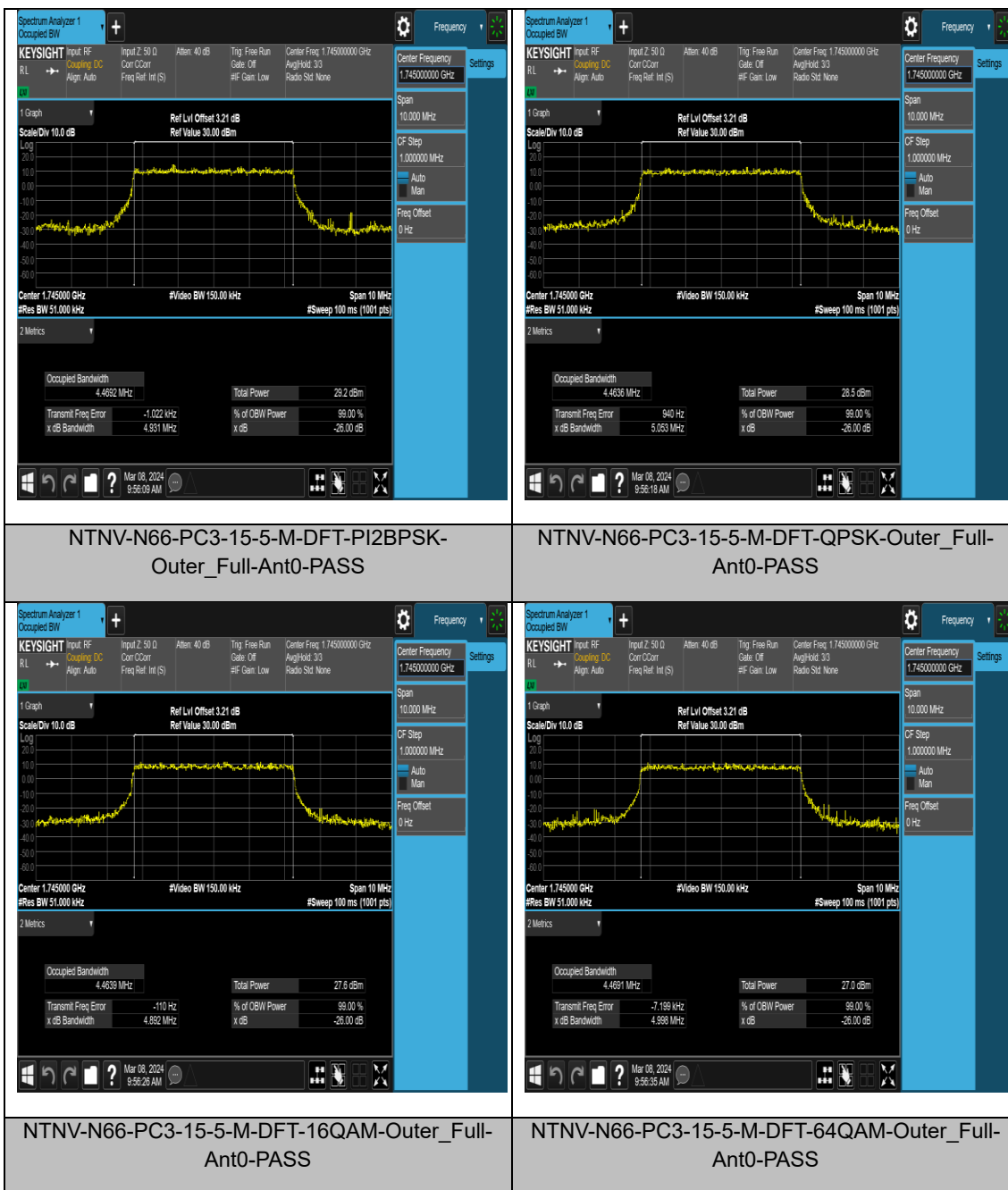
# 26dB Bandwidth and Occupied Bandwidth

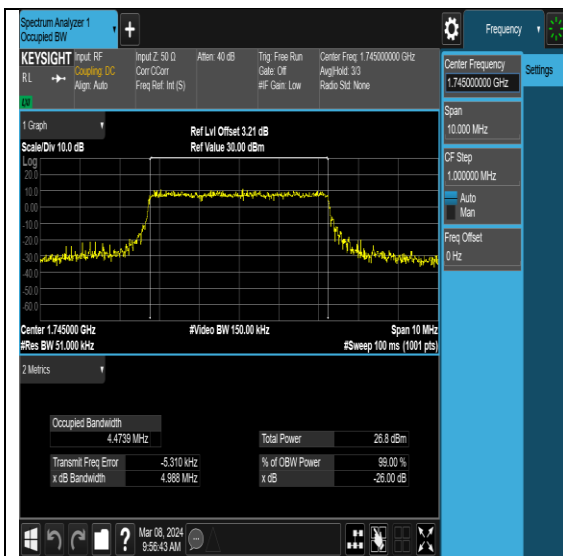
## Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N66	15	5	DFT-PI2BPSK	M	Outer_Full	4.4692	4.931	PASS
N66	15	5	DFT-QPSK	M	Outer_Full	4.4636	5.053	PASS
N66	15	5	DFT-16QAM	M	Outer_Full	4.4639	4.892	PASS
N66	15	5	DFT-64QAM	M	Outer_Full	4.4691	4.998	PASS
N66	15	5	DFT-256QAM	M	Outer_Full	4.4739	4.988	PASS
N66	15	10	DFT-PI2BPSK	M	Outer_Full	8.9195	9.721	PASS
N66	15	10	DFT-QPSK	M	Outer_Full	8.9118	9.667	PASS
N66	15	10	DFT-16QAM	M	Outer_Full	8.9154	9.523	PASS
N66	15	10	DFT-64QAM	M	Outer_Full	8.9168	9.593	PASS
N66	15	10	DFT-256QAM	M	Outer_Full	8.9157	9.461	PASS
N66	15	15	DFT-PI2BPSK	M	Outer_Full	13.405	14.31	PASS
N66	15	15	DFT-QPSK	M	Outer_Full	13.396	14.34	PASS
N66	15	15	DFT-16QAM	M	Outer_Full	13.417	14.42	PASS
N66	15	15	DFT-64QAM	M	Outer_Full	13.401	14.40	PASS
N66	15	15	DFT-256QAM	M	Outer_Full	13.398	14.19	PASS
N66	15	20	DFT-PI2BPSK	M	Outer_Full	17.864	18.80	PASS
N66	15	20	DFT-QPSK	M	Outer_Full	17.885	18.75	PASS
N66	15	20	DFT-16QAM	M	Outer_Full	17.912	18.79	PASS
N66	15	20	DFT-64QAM	M	Outer_Full	17.912	19.12	PASS
N66	15	20	DFT-256QAM	M	Outer_Full	17.911	20.04	PASS
N66	15	30	DFT-PI2BPSK	M	Outer_Full	28.546	29.78	PASS
N66	15	30	DFT-QPSK	M	Outer_Full	28.572	29.84	PASS
N66	15	30	DFT-16QAM	M	Outer_Full	28.555	29.86	PASS
N66	15	30	DFT-64QAM	M	Outer_Full	28.557	29.73	PASS
N66	15	30	DFT-256QAM	M	Outer_Full	28.591	30.35	PASS

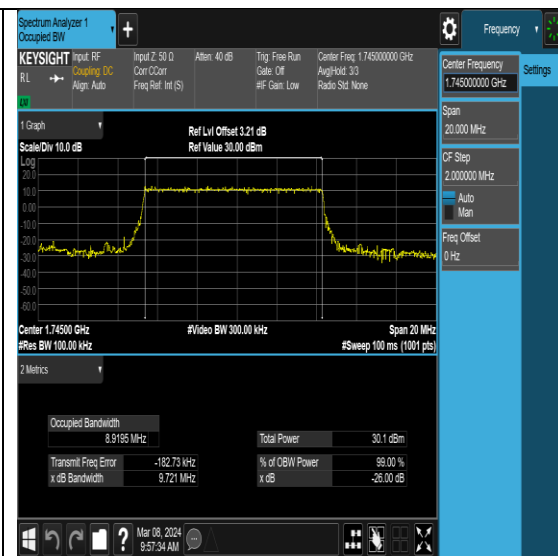


### Test Graphs

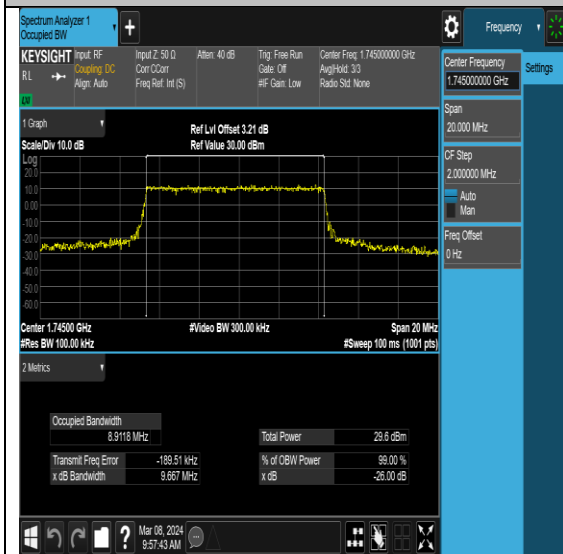




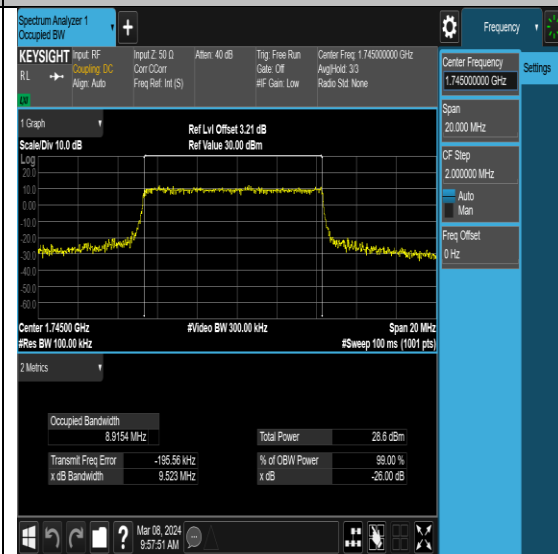
NTNV-N66-PC3-15-5-M-DFT-256QAM-Outer\_Full-Ant0-PASS



NTNV-N66-PC3-15-10-M-DFT-PI2BPSK-Outer\_Full-Ant0-PASS



NTNV-N66-PC3-15-10-M-DFT-QPSK-Outer\_Full-Ant0-PASS



NTNV-N66-PC3-15-10-M-DFT-16QAM-Outer\_Full-Ant0-PASS