Appendix E

NR BAND N48

CONDUCTED OUTPUT POWER AND E.I.R.P.

CONDUCTED OUTPUT POWER (dBm)

n48 (SCS 30 kHz) (Ant7)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		638000	641666	645332
		Frequence (MHz)		3570	3624.99	3679.98
40M	DFT-s-OFDM Pi/2 BPSK	1	1	22.77	22.74	22.94
		1	53	22.84	22.54	22.98
		1	104	22.75	22.76	23.03
		50	0	22.06	22.07	22.06
		50	28	22.72	22.61	23.01
		50	56	22.06	22.09	22.01
		100	0	22.04	22.02	22.04
	DFT-s-OFDM QPSK	1	1	22.92	22.83	23.06
		1	53	22.80	22.57	23.04
		1	104	22.70	22.59	23.03
		50	0	22.06	22.07	22.03
		50	28	22.72	22.77	22.99
		50	56	22.00	22.02	22.05
		100	0	22.02	22.05	22.05
	DFT-s-OFDM 16QAM	1	53	22.46	22.39	22.00
	DFT-s-OFDM 64QAM	1	53	20.97	20.84	20.95
	DFT-s-OFDM 256QAM	1	53	18.88	18.88	18.99
	CP-OFDM QPSK	1	1	21.43	21.30	21.69
BW	MCS Index	Channel		637334	641666	646000
		Frequence (MHz)		3560.01	3624.99	3690
20M	DFT-s-OFDM QPSK	1	1	22.87	22.72	22.98

EIRP

Part96/RSS-192_n48 (SCS 30kHz)_Ant7							
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**FCC Limit (dbm)**
40M-Pi/2 BPSK	638000	3570	22.84	-0.48	22.36	172.19	23
	641666	3624.99	22.76	-0.48	22.28	169.04	23
	645332	3679.98	23.03	-0.48	22.55	179.89	23
40M-QPSK	638000	3570	22.92	-0.48	22.44	175.39	23
	641666	3624.99	22.83	-0.48	22.35	171.79	23
	645332	3679.98	23.06	-0.48	22.58	181.13	23
40M-16QAM	638000	3570	22.46	-0.48	21.98	157.76	23
	641666	3624.99	22.39	-0.48	21.91	155.24	23
	645332	3679.98	22.00	-0.48	21.52	141.91	23
40M-64QAM	638000	3570	20.97	-0.48	20.49	111.94	23
	641666	3624.99	20.84	-0.48	20.36	108.64	23
	645332	3679.98	20.95	-0.48	20.47	111.43	23
40M-256QAM	638000	3570	18.88	-0.48	18.40	69.18	23
	641666	3624.99	18.88	-0.48	18.40	69.18	23
	645332	3679.98	18.99	-0.48	18.51	70.96	23
40M- CP-OFDM QPSK	638000	3570	21.43	-0.48	20.95	124.45	23
	641666	3624.99	21.30	-0.48	20.82	120.78	23
	645332	3679.98	21.69	-0.48	21.21	132.13	23
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**FCC Limit (dbm)**
20M-QPSK	637334	3560.01	22.87	-0.48	22.39	173.38	23
	641666	3624.99	22.72	-0.48	22.24	167.49	23
	646000	3690	22.98	-0.48	22.50	177.83	23

Note: The worst case EIRP shown in this section is found with LTE operating onty using 1RB. As such, the
EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available
channel bandwidths (i.e., 5, 10, 15, 20MHz).

Peak-to-Average Ratio for SA

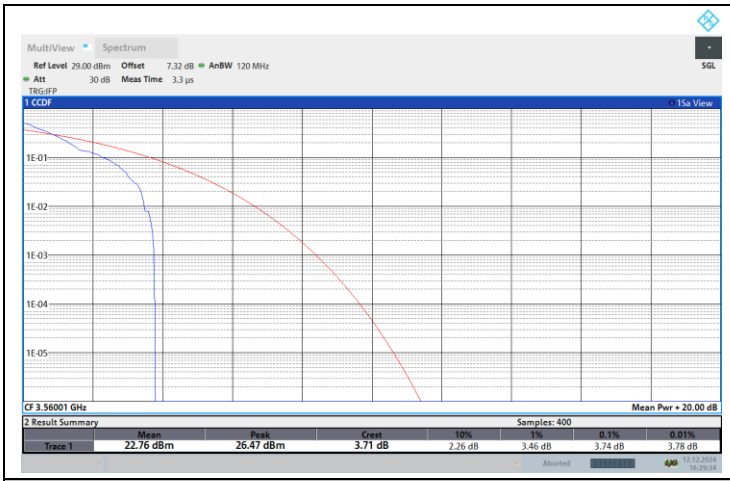
PEAK-TO-AVERAGE RATIO(CCDF)

TEST RESULT

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
N48	20MHz	DFT-PI2BPSK	L	Outer_Full	3.74	13	Pass
N48	20MHz	DFT-PI2BPSK	L	Edge_1RB_Left	1.70	13	Pass
N48	20MHz	DFT-PI2BPSK	M	Outer_Full	3.44	13	Pass
N48	20MHz	DFT-PI2BPSK	M	Edge_1RB_Left	1.88	13	Pass
N48	20MHz	DFT-PI2BPSK	H	Outer_Full	4.66	13	Pass
N48	20MHz	DFT-PI2BPSK	H	Edge_1RB_Left	2.42	13	Pass
N48	20MHz	DFT-QPSK	L	Outer_Full	3.72	13	Pass
N48	20MHz	DFT-QPSK	L	Edge_1RB_Left	1.80	13	Pass
N48	20MHz	DFT-QPSK	M	Outer_Full	4.40	13	Pass
N48	20MHz	DFT-QPSK	M	Edge_1RB_Left	2.44	13	Pass
N48	20MHz	DFT-QPSK	H	Outer_Full	4.66	13	Pass
N48	20MHz	DFT-QPSK	H	Edge_1RB_Left	2.58	13	Pass
N48	20MHz	DFT-16QAM	L	Outer_Full	3.82	13	Pass
N48	20MHz	DFT-16QAM	L	Edge_1RB_Left	1.70	13	Pass
N48	20MHz	DFT-16QAM	M	Outer_Full	4.32	13	Pass
N48	20MHz	DFT-16QAM	M	Edge_1RB_Left	1.80	13	Pass
N48	20MHz	DFT-16QAM	H	Outer_Full	5.22	13	Pass
N48	20MHz	DFT-16QAM	H	Edge_1RB_Left	1.90	13	Pass
N48	20MHz	DFT-64QAM	L	Outer_Full	2.98	13	Pass
N48	20MHz	DFT-64QAM	L	Edge_1RB_Left	1.88	13	Pass
N48	20MHz	DFT-64QAM	M	Outer_Full	4.76	13	Pass
N48	20MHz	DFT-64QAM	M	Edge_1RB_Left	3.74	13	Pass
N48	20MHz	DFT-64QAM	H	Outer_Full	5.82	13	Pass
N48	20MHz	DFT-64QAM	H	Edge_1RB_Left	1.98	13	Pass
N48	20MHz	DFT-256QAM	L	Outer_Full	4.28	13	Pass
N48	20MHz	DFT-256QAM	L	Edge_1RB_Left	1.96	13	Pass
N48	20MHz	DFT-256QAM	M	Outer_Full	3.24	13	Pass
N48	20MHz	DFT-256QAM	M	Edge_1RB_Left	1.88	13	Pass
N48	20MHz	DFT-256QAM	H	Outer_Full	3.46	13	Pass
N48	20MHz	DFT-256QAM	H	Edge_1RB_Left	1.98	13	Pass
N48	40MHz	DFT-PI2BPSK	L	Outer_Full	4.48	13	Pass
N48	40MHz	DFT-PI2BPSK	L	Edge_1RB_Left	1.50	13	Pass
N48	40MHz	DFT-PI2BPSK	M	Outer_Full	4.84	13	Pass
N48	40MHz	DFT-PI2BPSK	M	Edge_1RB_Left	2.44	13	Pass
N48	40MHz	DFT-PI2BPSK	H	Outer_Full	4.88	13	Pass
N48	40MHz	DFT-PI2BPSK	H	Edge_1RB_Left	2.44	13	Pass
N48	40MHz	DFT-QPSK	L	Outer_Full	5.04	13	Pass
N48	40MHz	DFT-QPSK	L	Edge_1RB_Left	2.42	13	Pass
N48	40MHz	DFT-QPSK	M	Outer_Full	2.98	13	Pass
N48	40MHz	DFT-QPSK	M	Edge_1RB_Left	1.42	13	Pass
N48	40MHz	DFT-QPSK	H	Outer_Full	5.04	13	Pass
N48	40MHz	DFT-QPSK	H	Edge_1RB_Left	2.08	13	Pass
N48	40MHz	DFT-16QAM	L	Outer_Full	5.16	13	Pass
N48	40MHz	DFT-16QAM	L	Edge_1RB_Left	2.44	13	Pass
N48	40MHz	DFT-16QAM	M	Outer_Full	4.22	13	Pass
N48	40MHz	DFT-16QAM	M	Edge_1RB_Left	5.14	13	Pass

N48	40MHz	DFT-16QAM	H	Outer_Full	4.88	13	Pass
N48	40MHz	DFT-16QAM	H	Edge_1RB_Left	2.44	13	Pass
N48	40MHz	DFT-64QAM	L	Outer_Full	4.28	13	Pass
N48	40MHz	DFT-64QAM	L	Edge_1RB_Left	4.28	13	Pass
N48	40MHz	DFT-64QAM	M	Outer_Full	4.20	13	Pass
N48	40MHz	DFT-64QAM	M	Edge_1RB_Left	1.42	13	Pass
N48	40MHz	DFT-64QAM	H	Outer_Full	4.94	13	Pass
N48	40MHz	DFT-64QAM	H	Edge_1RB_Left	1.98	13	Pass
N48	40MHz	DFT-256QAM	L	Outer_Full	4.56	13	Pass
N48	40MHz	DFT-256QAM	L	Edge_1RB_Left	2.46	13	Pass
N48	40MHz	DFT-256QAM	M	Outer_Full	4.20	13	Pass
N48	40MHz	DFT-256QAM	M	Edge_1RB_Left	1.80	13	Pass
N48	40MHz	DFT-256QAM	H	Outer_Full	5.70	13	Pass
N48	40MHz	DFT-256QAM	H	Edge_1RB_Left	2.08	13	Pass

TEST GRAPHS



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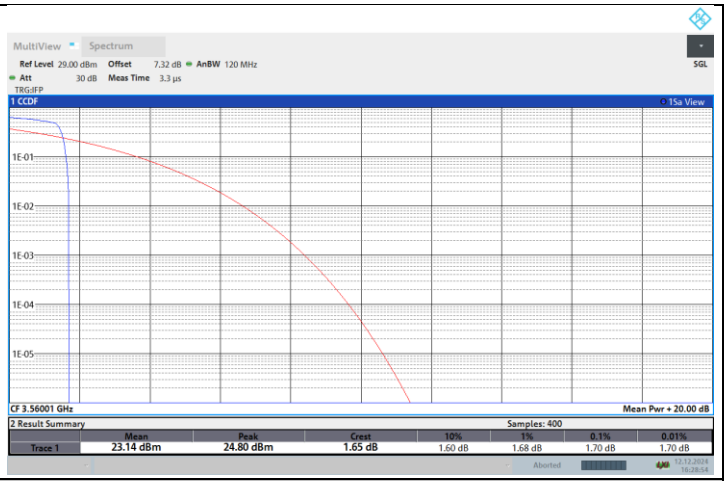

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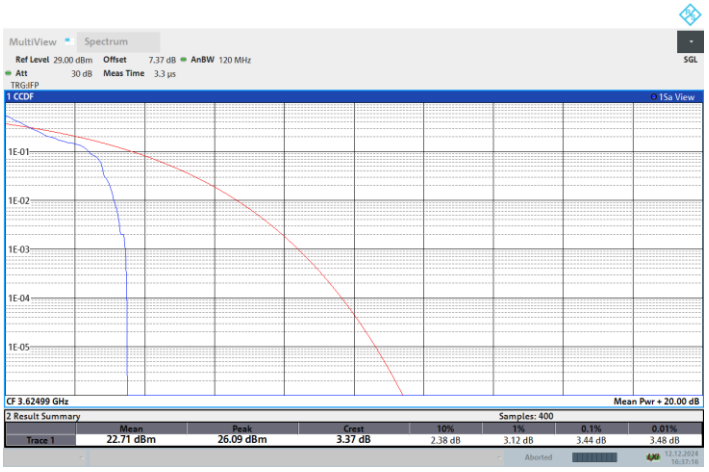

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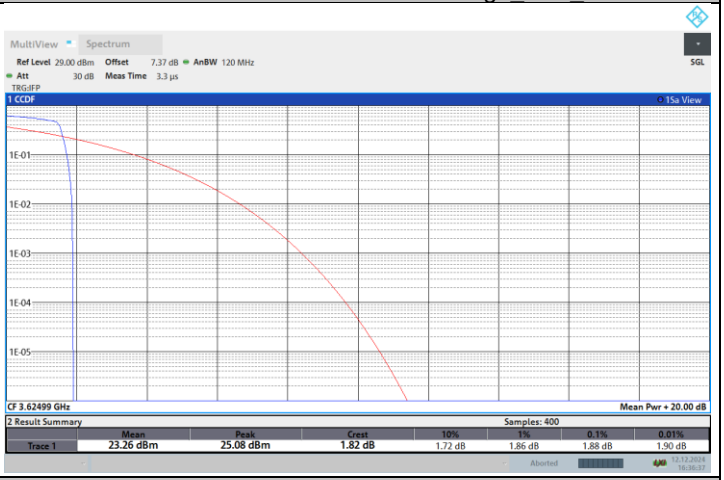

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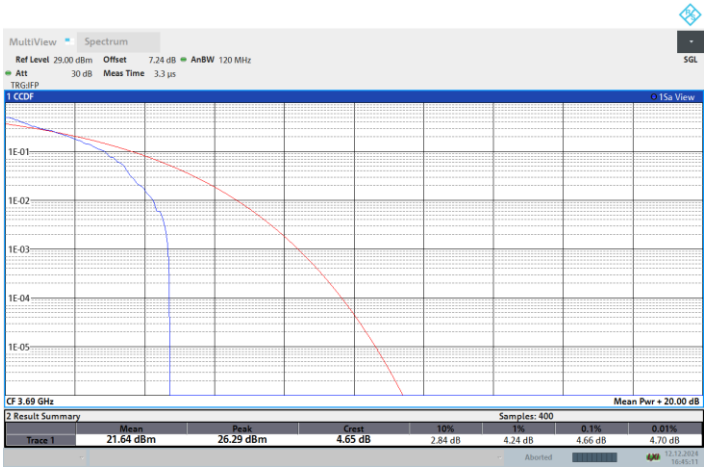

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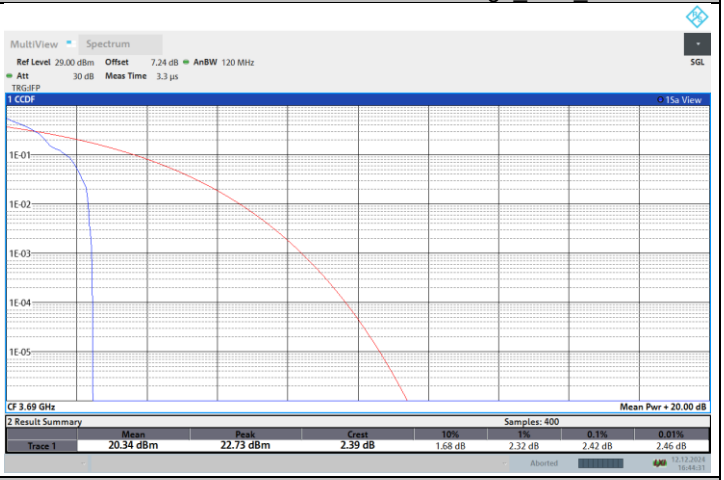

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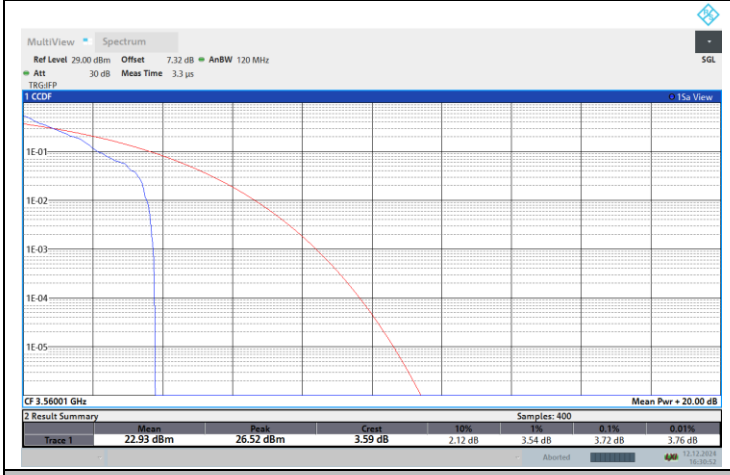

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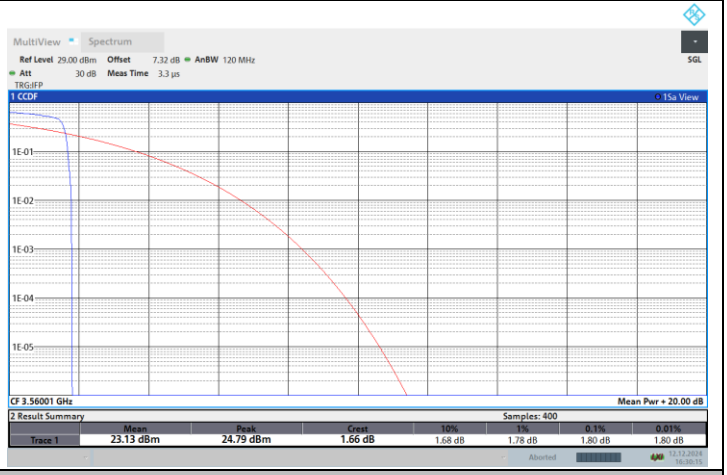

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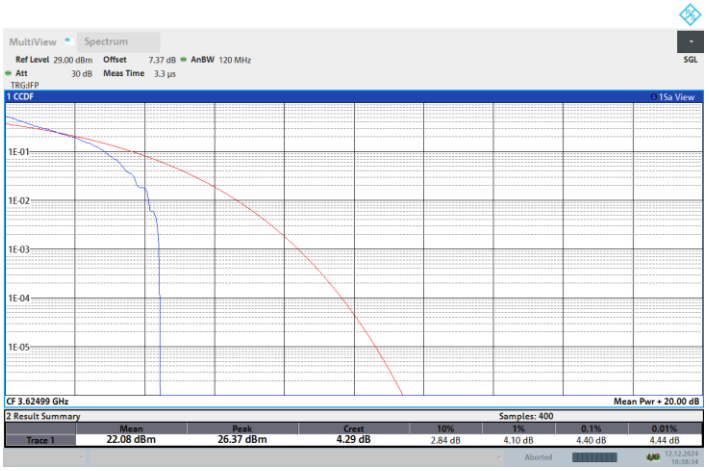

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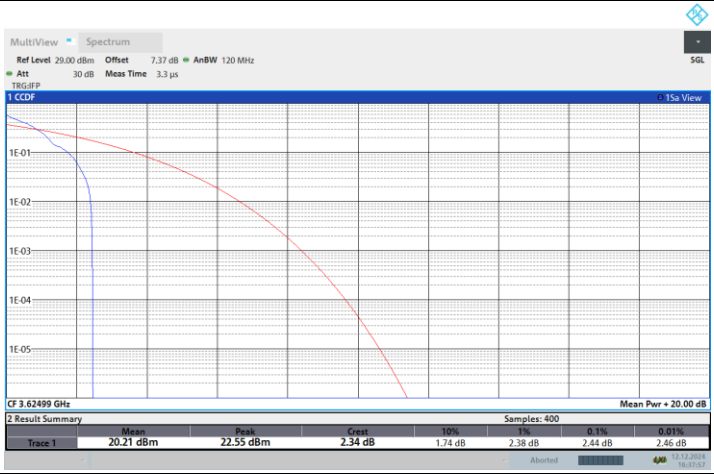

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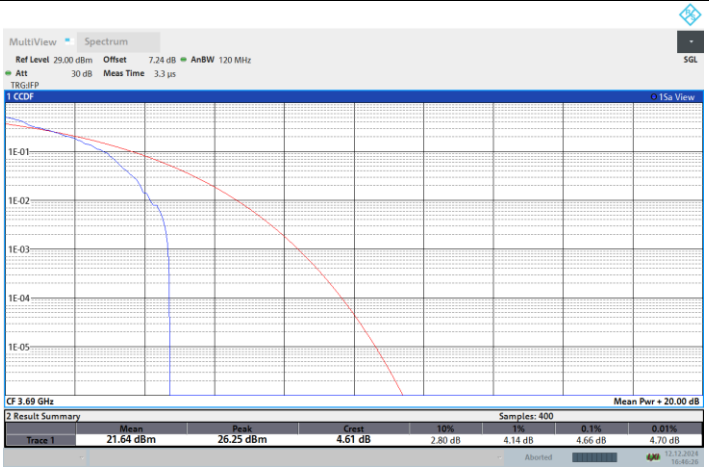

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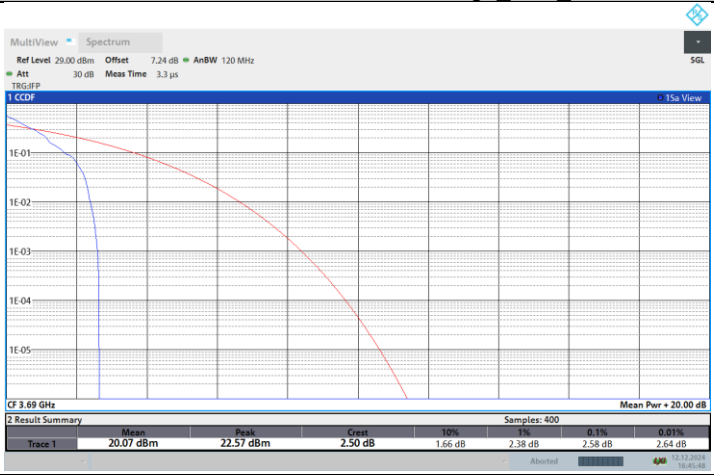

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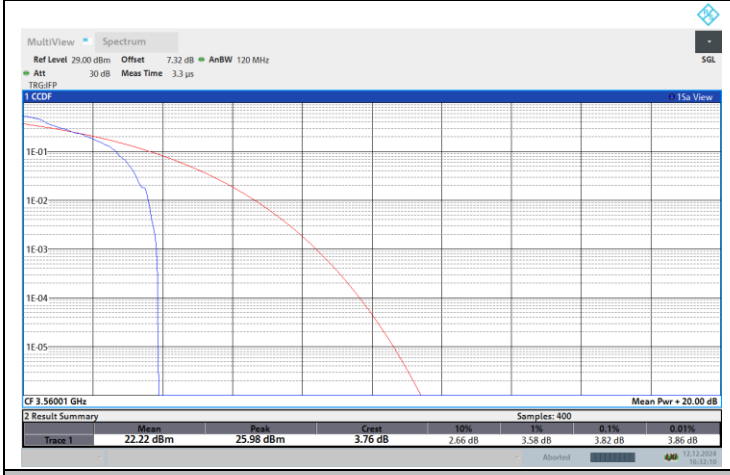

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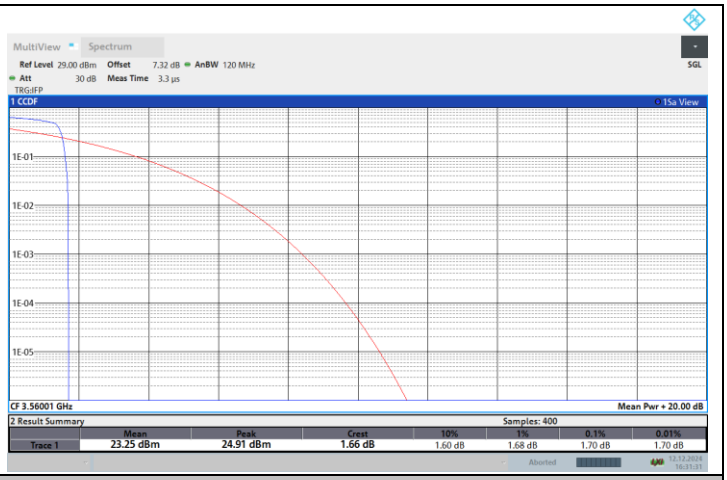

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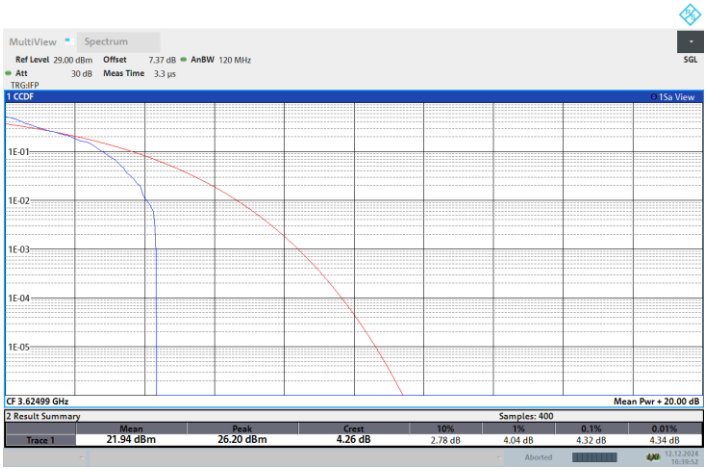

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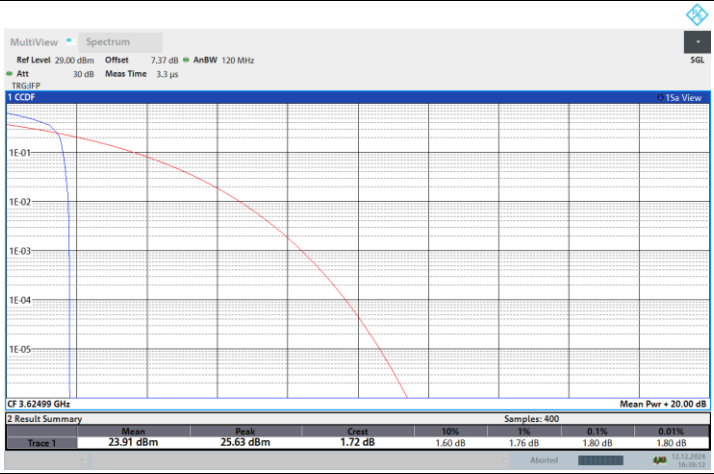

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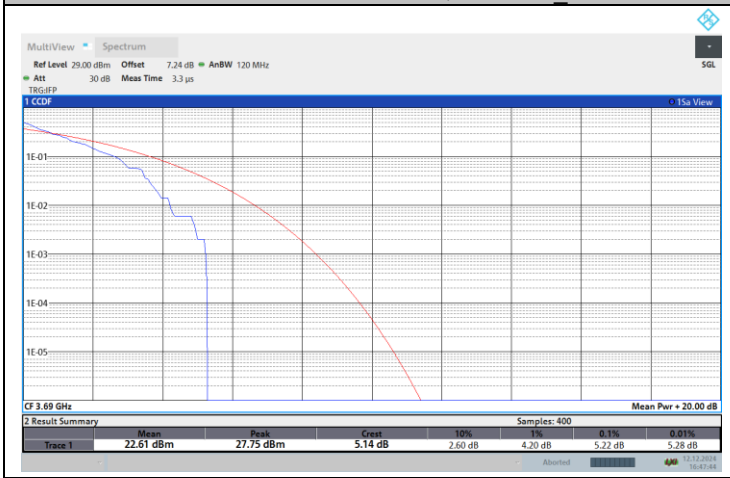

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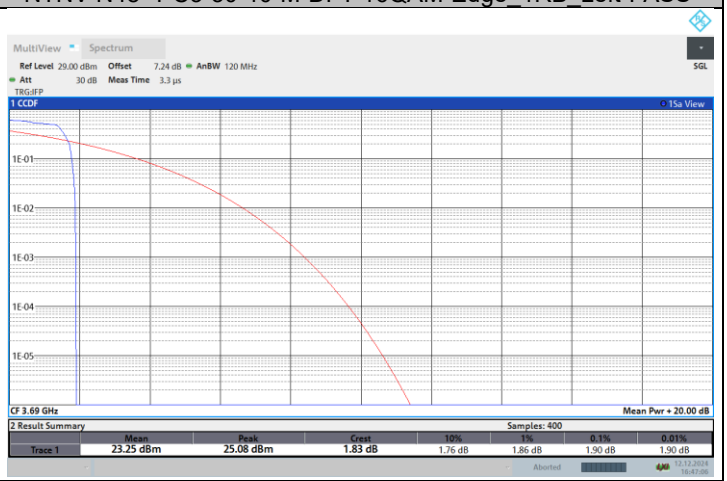

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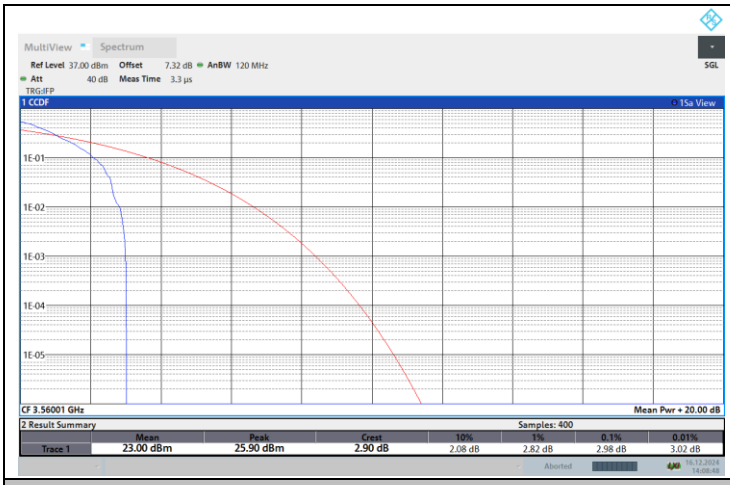

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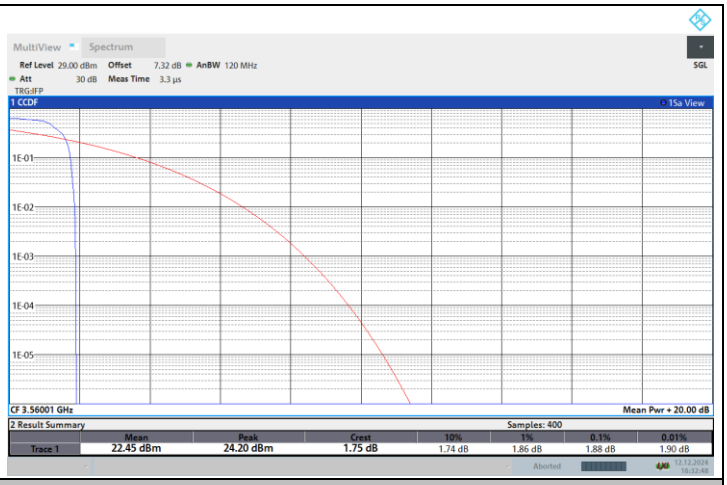

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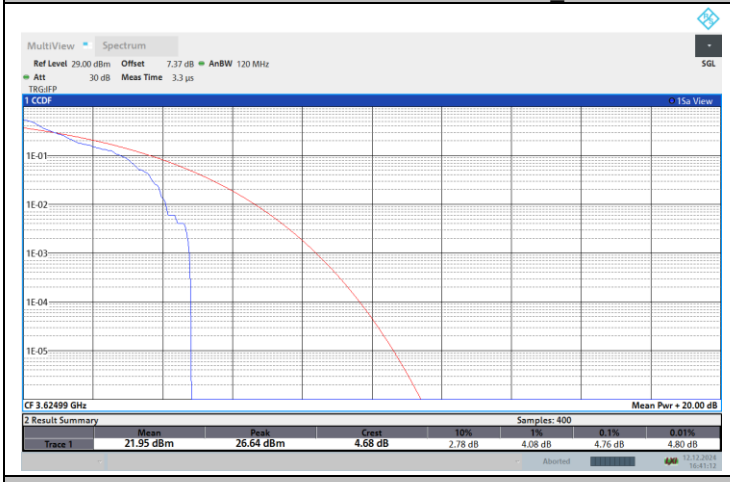

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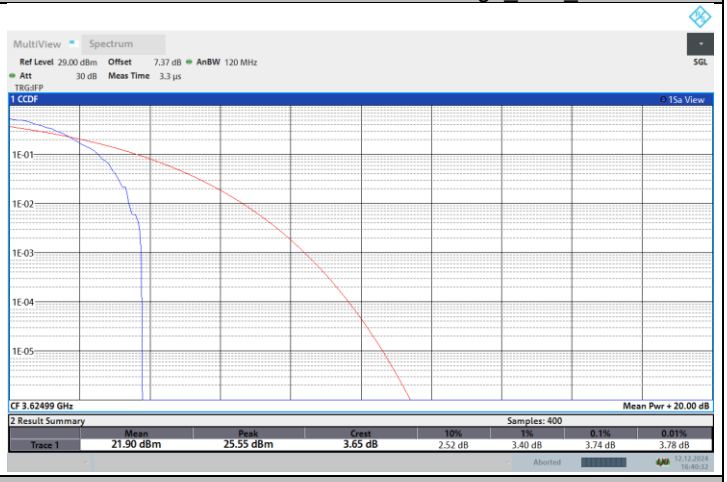

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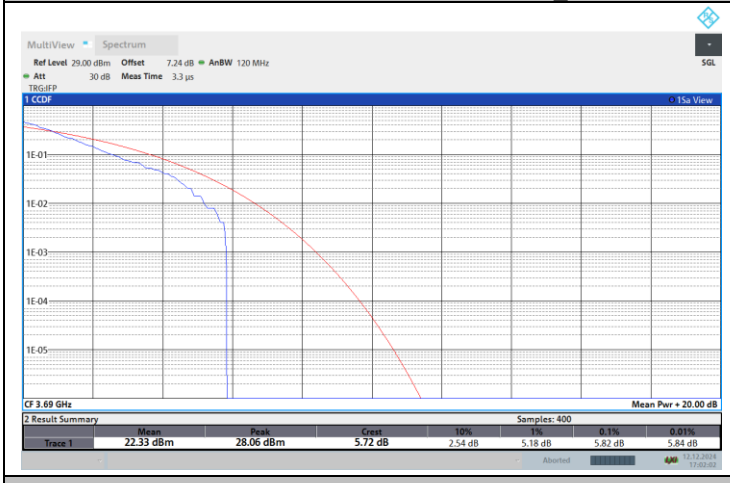

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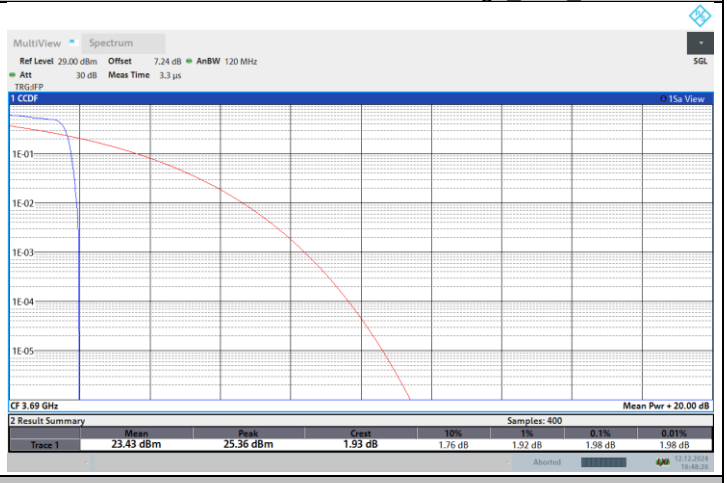

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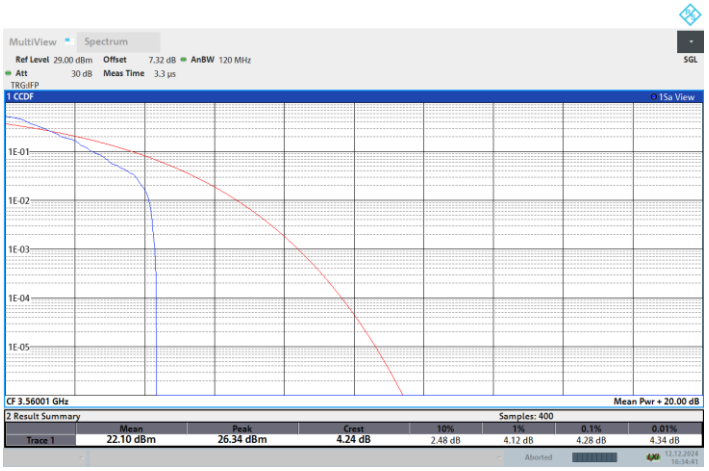

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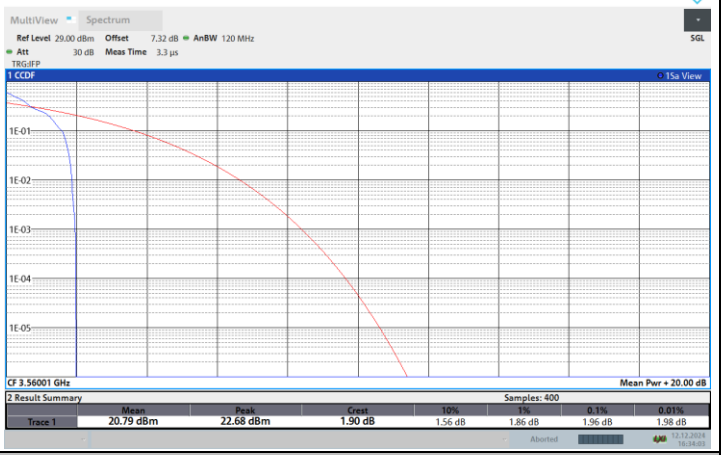

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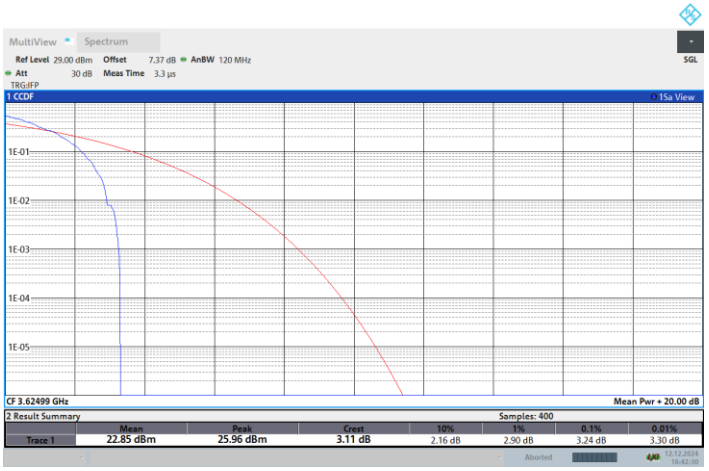

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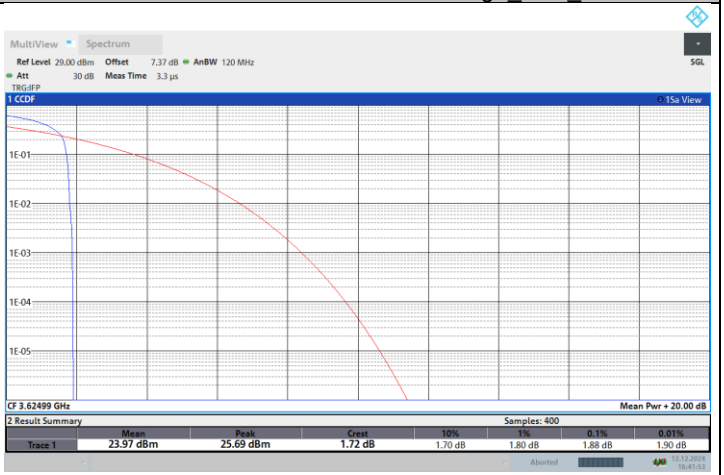

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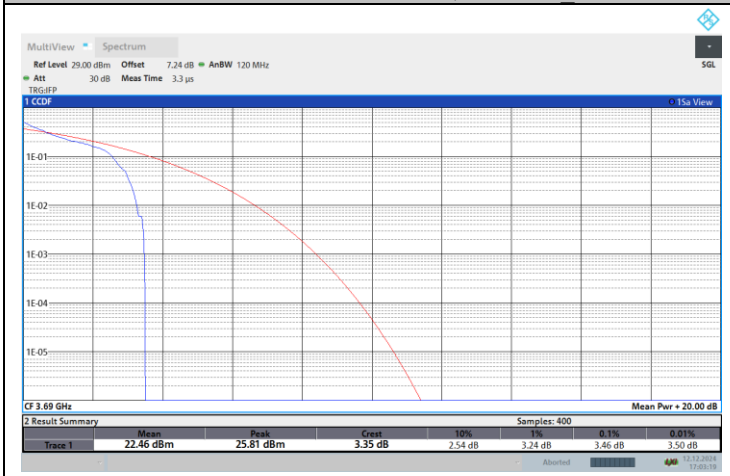

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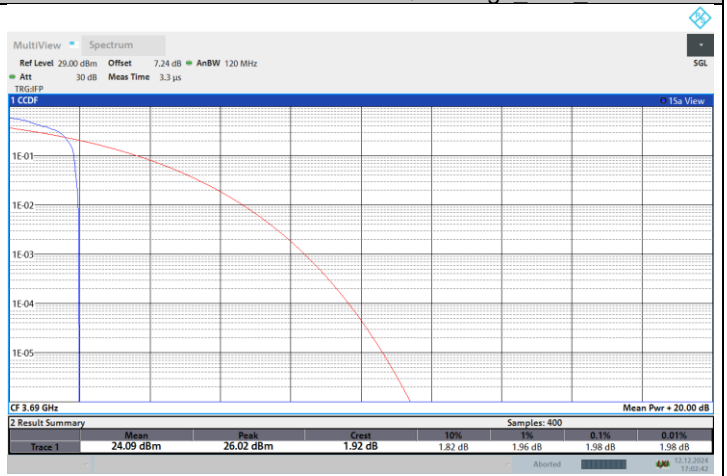
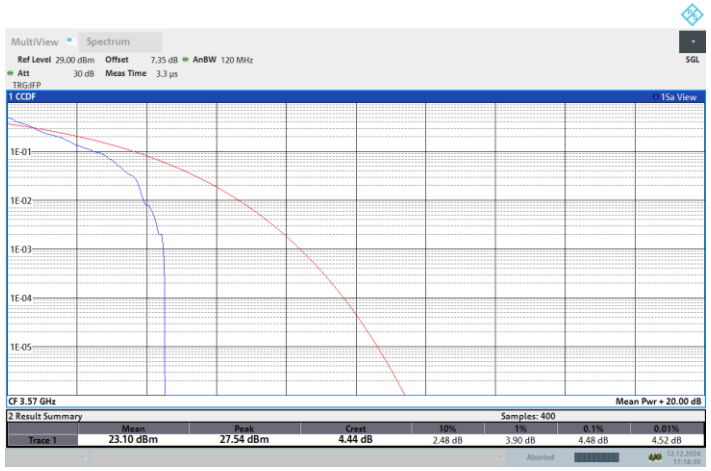
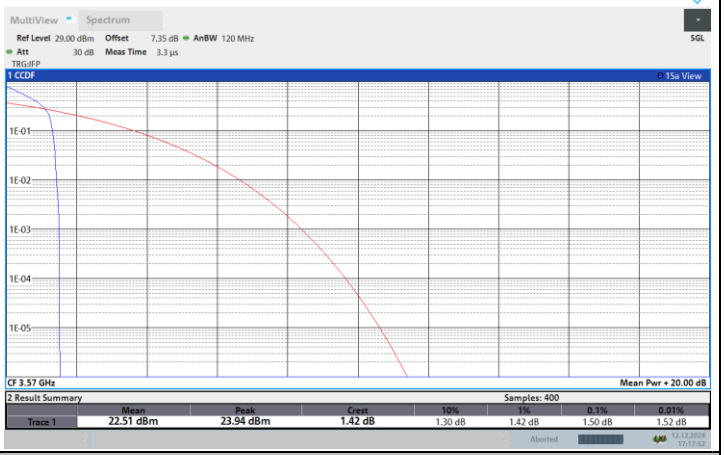


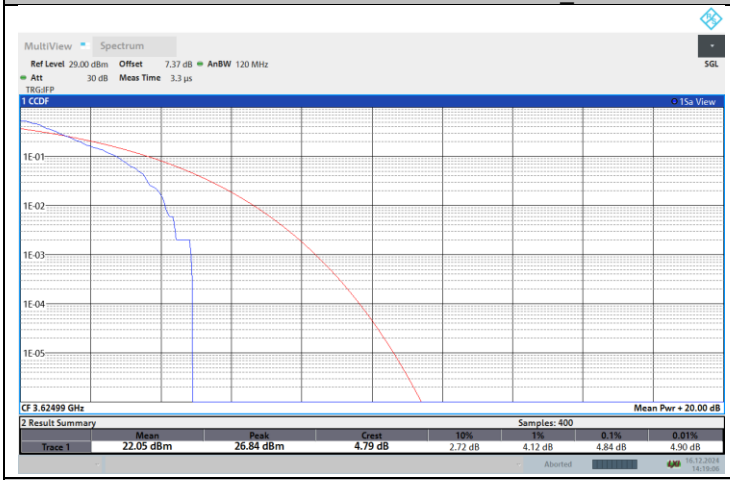
NTNV-N48--PC3-30-10-H-DFT-256QAM-Edge_1RB_Left-PASS



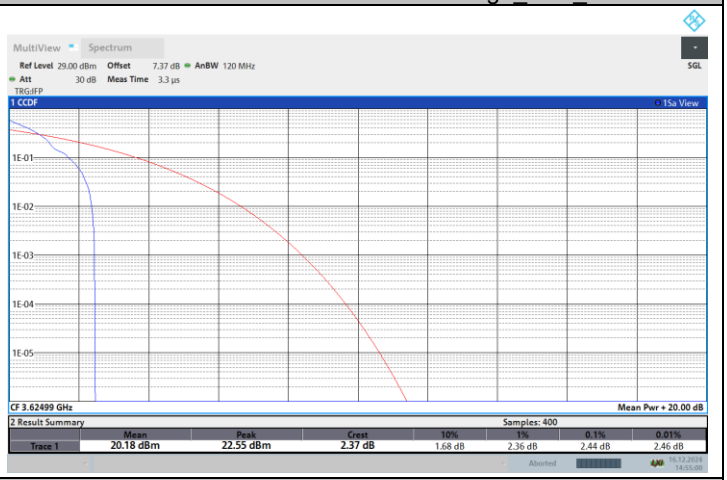
NTNV-N48--PC3-30-40-L-DFT-PI2BPSK-Outer_Full-PASS



NTNV-N48--PC3-30-40-L-DFT-PI2BPSK-Edge_1RB_Left-PASS



NTNV-N48--PC3-30-40-M-DFT-PI2BPSK-Outer_Full-PASS



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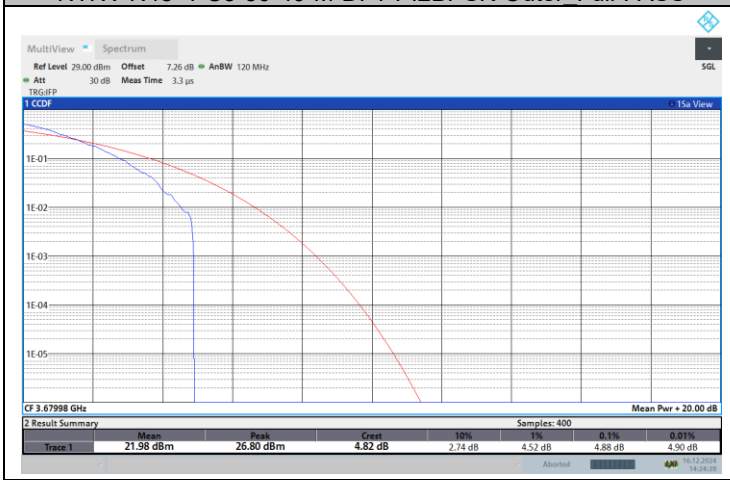
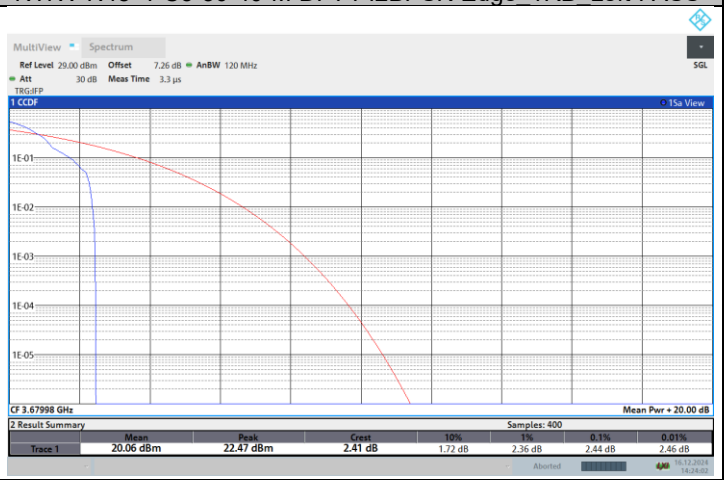
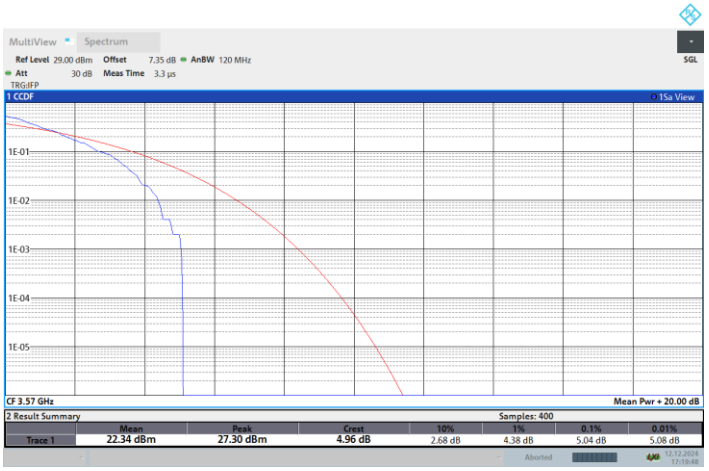


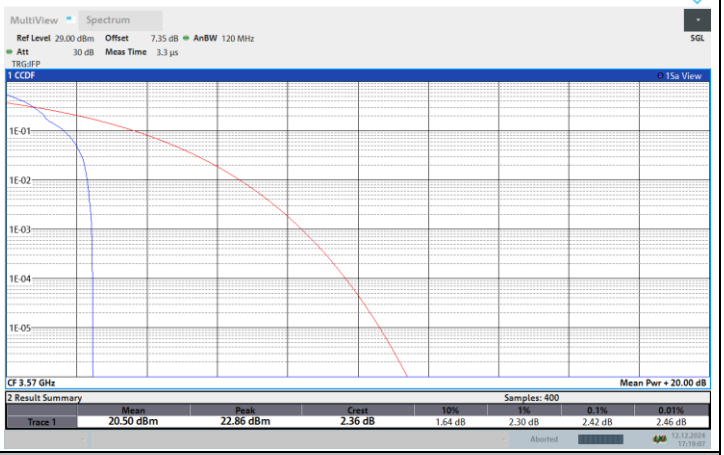
NTNV-N48--PC3-30-40-H-DFT-PI2BPSK-Outer_Full-PASS



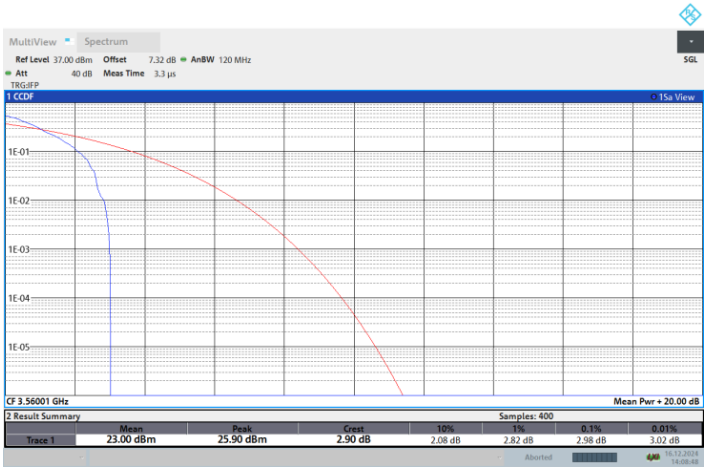
NTNV-N48--PC3-30-40-H-DFT-PI2BPSK-Edge_1RB_Left-PASS



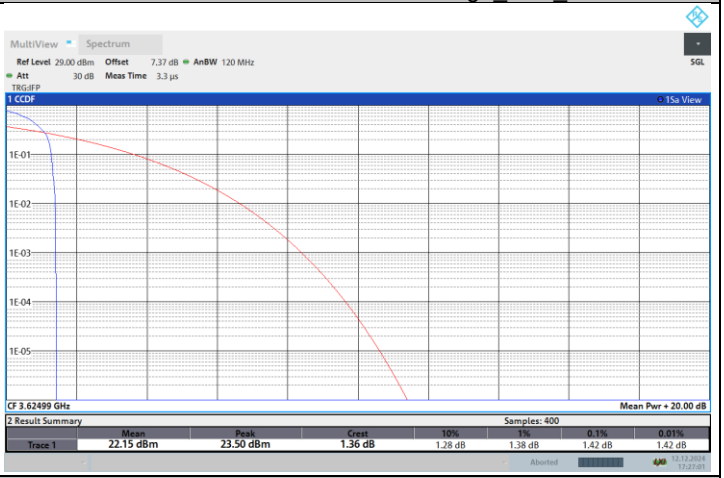
NTNV-N48--PC3-30-40-L-DFT-QPSK-Outer_Full-PASS



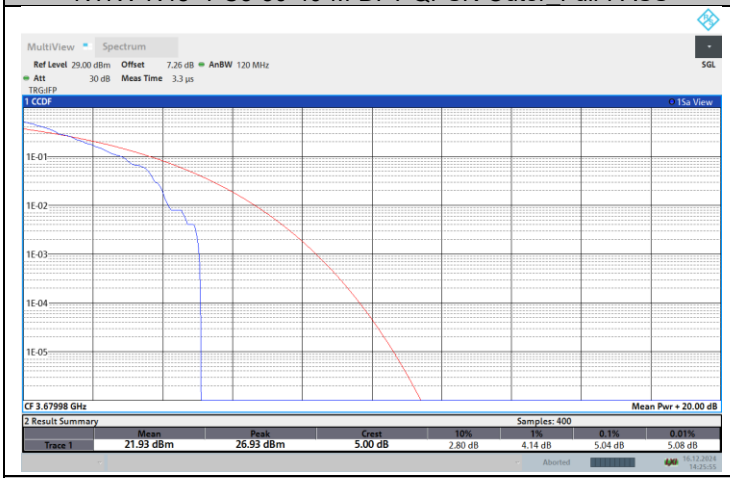
NTNV-N48--PC3-30-40-L-DFT-QPSK-Edge_1RB_Left-PASS



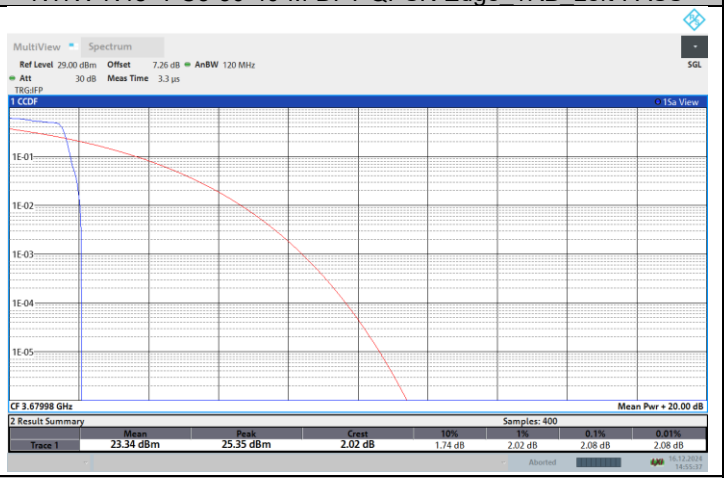
NTNV-N48--PC3-30-40-M-DFT-QPSK-Outer_Full-PASS



NTNV-N48--PC3-30-40-M-DFT-QPSK-Edge_1RB_Left-PASS



NTNV-N48--PC3-30-40-H-DFT-QPSK-Outer_Full-PASS



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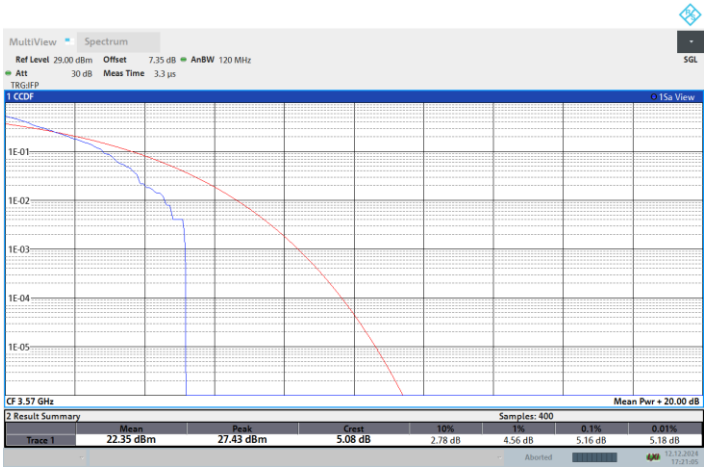
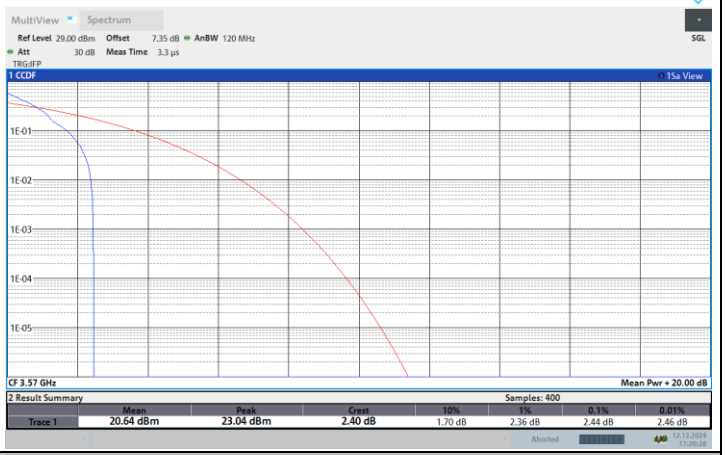
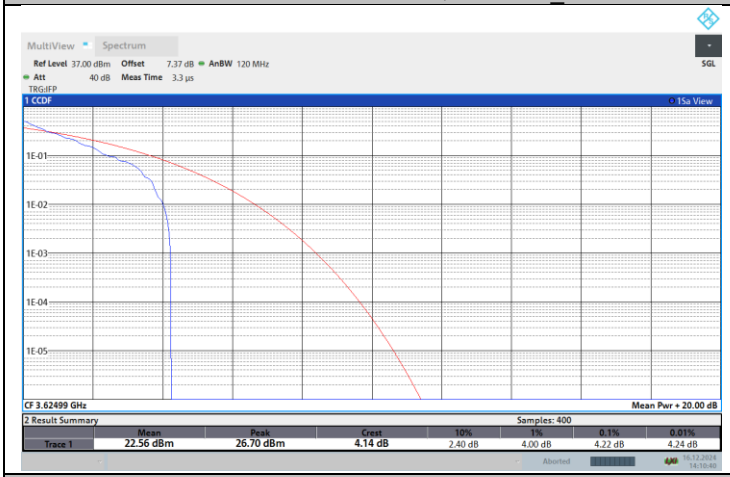


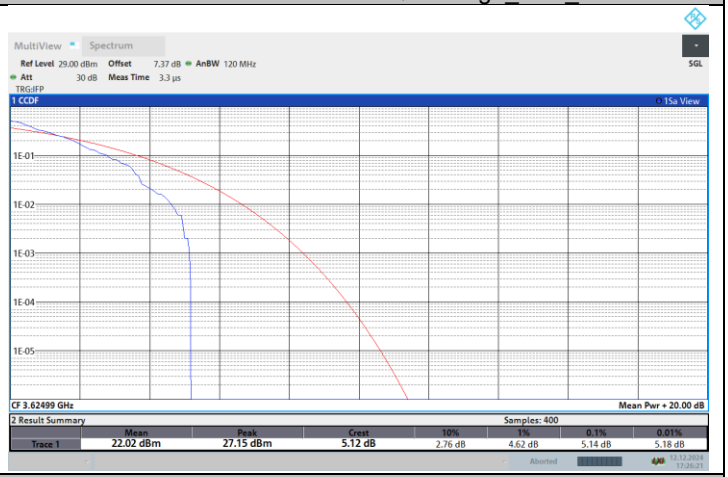
NTNV-N48--PC3-30-40-L-DFT-16QAM-Outer_Full-PASS



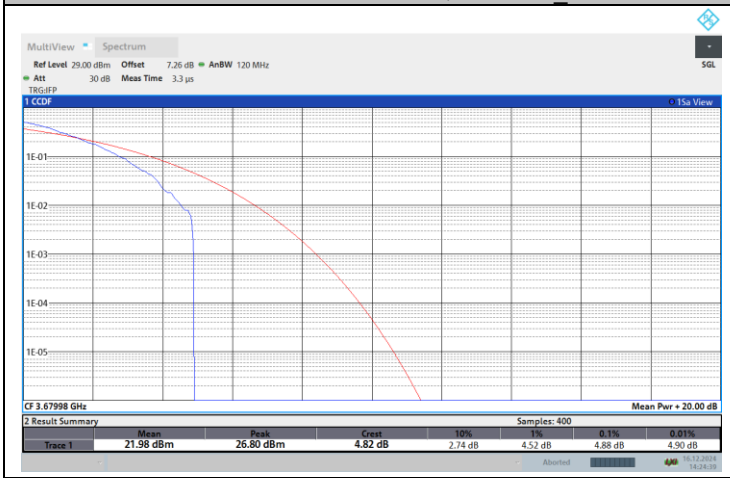
NTNV-N48--PC3-30-40-L-DFT-16QAM-Edge_1RB_Left-PASS



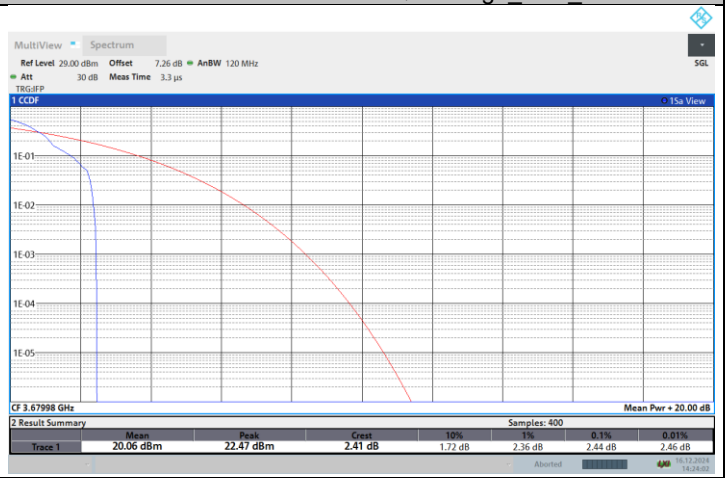
NTNV-N48--PC3-30-40-M-DFT-16QAM-Outer_Full-PASS



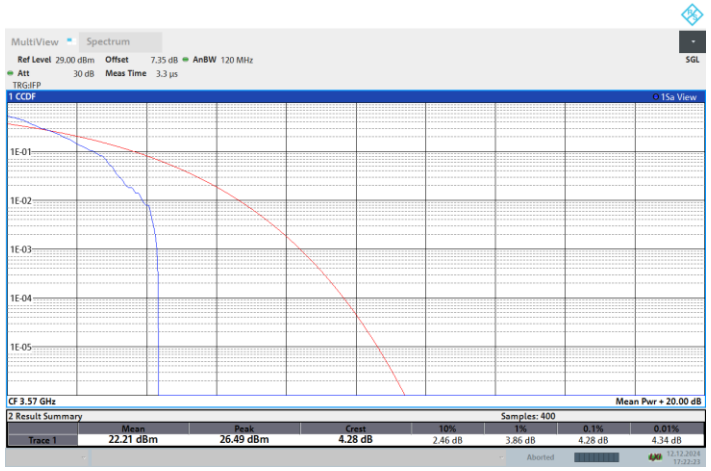
NTNV-N48--PC3-30-40-M-DFT-16QAM-Edge_1RB_Left-PASS



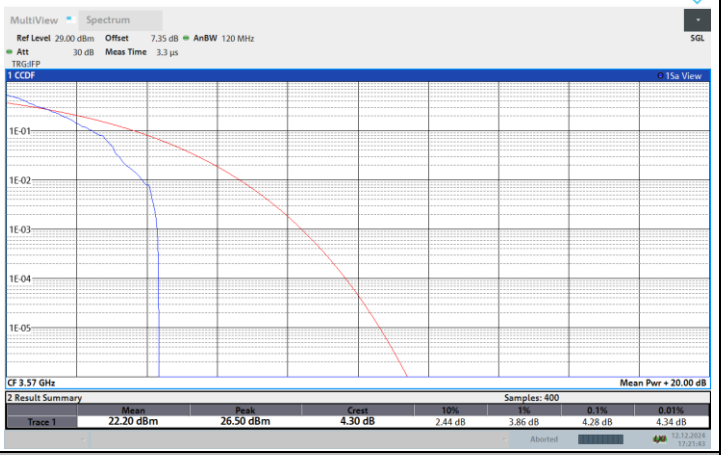
NTNV-N48--PC3-30-40-H-DFT-16QAM-Outer_Full-PASS



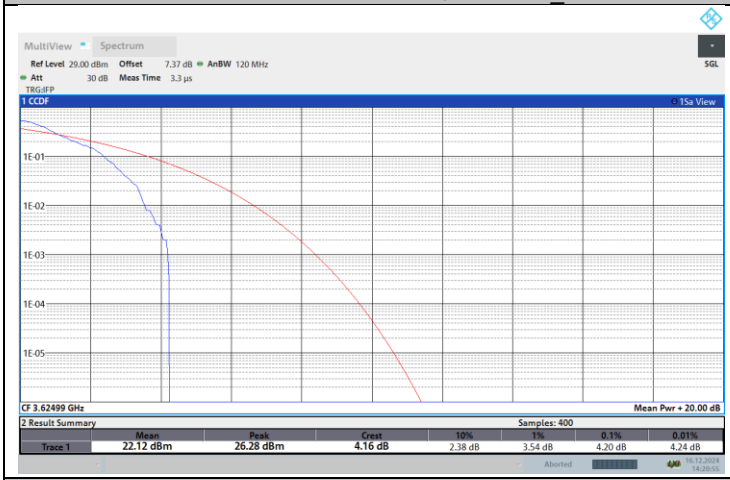
NTNV-N48--PC3-30-40-H-DFT-16QAM-Edge_1RB_Left-PASS



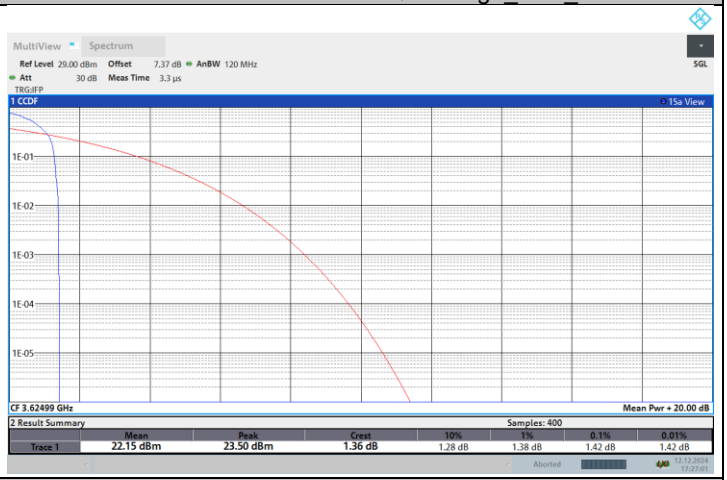
NTNV-N48--PC3-30-40-L-DFT-64QAM-Outer_Full-PASS



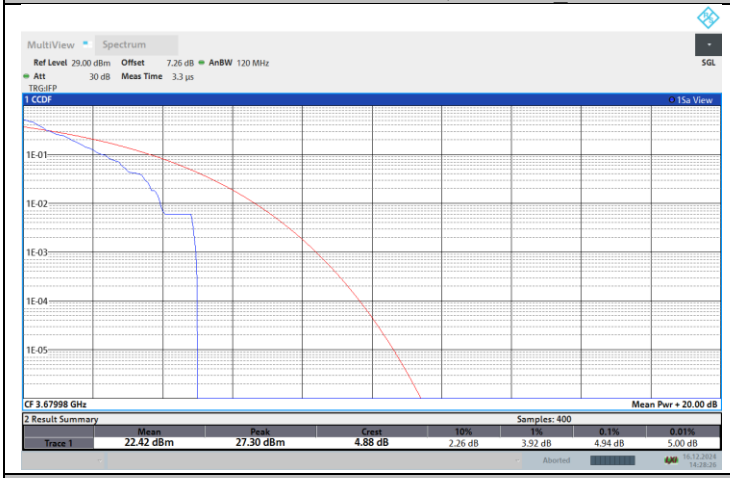
NTNV-N48--PC3-30-40-L-DFT-64QAM-Edge_1RB_Left-PASS



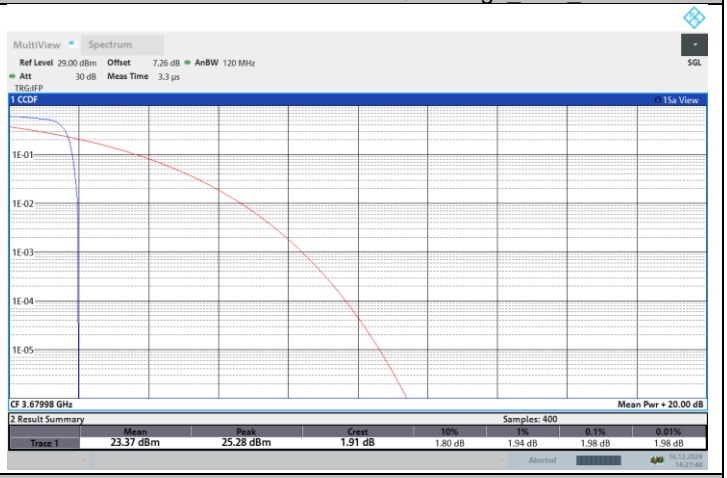
NTNV-N48--PC3-30-40-M-DFT-64QAM-Outer_Full-PASS



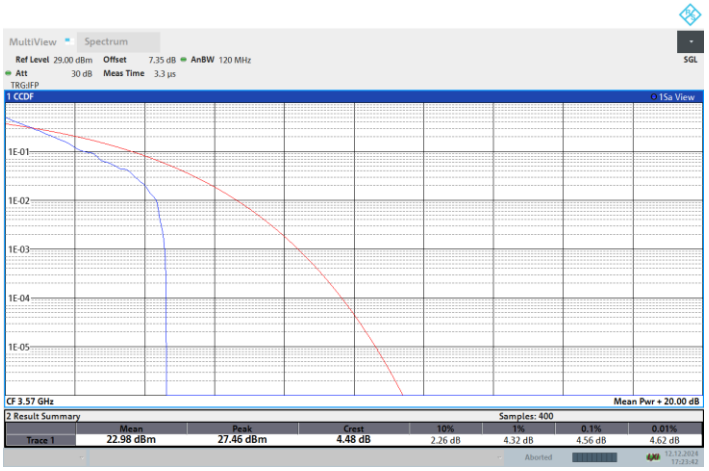
NTNV-N48--PC3-30-40-M-DFT-64QAM-Edge_1RB_Left-PASS



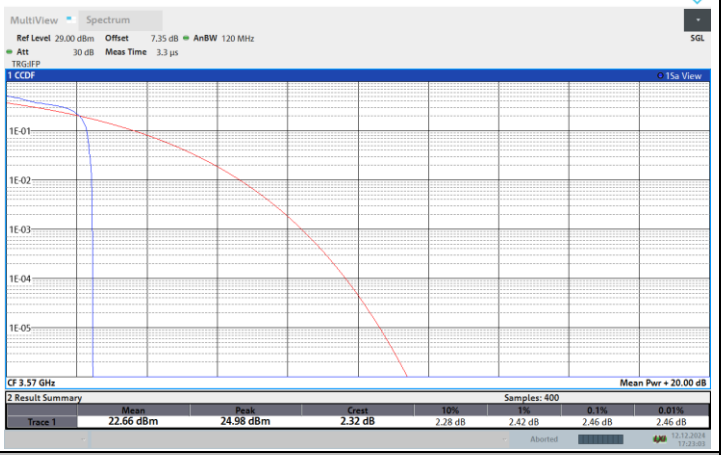
NTNV-N48--PC3-30-40-H-DFT-64QAM-Outer_Full-PASS



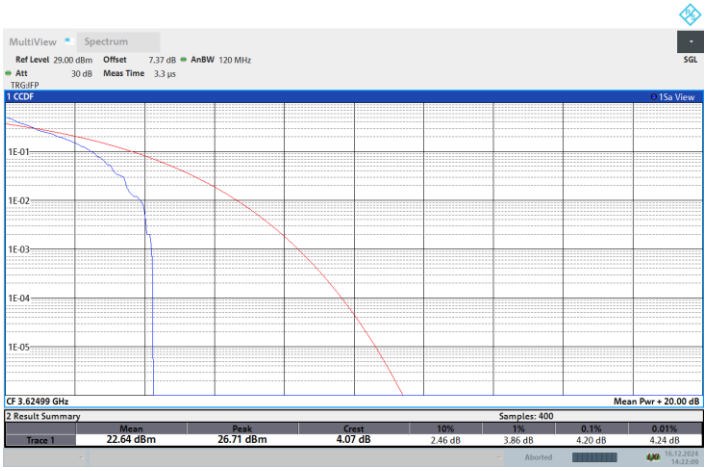
NTNV-N48--PC3-30-40-H-DFT-64QAM-Edge_1RB_Left-PASS



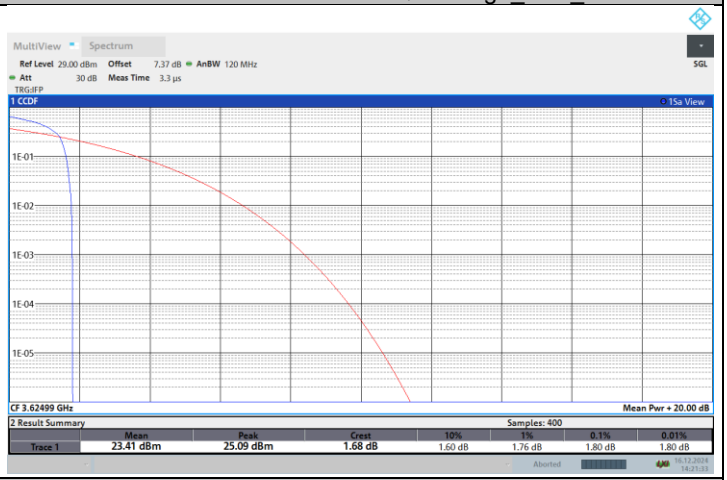
NTNV-N48--PC3-30-40-L-DFT-256QAM-Outer_Full-PASS



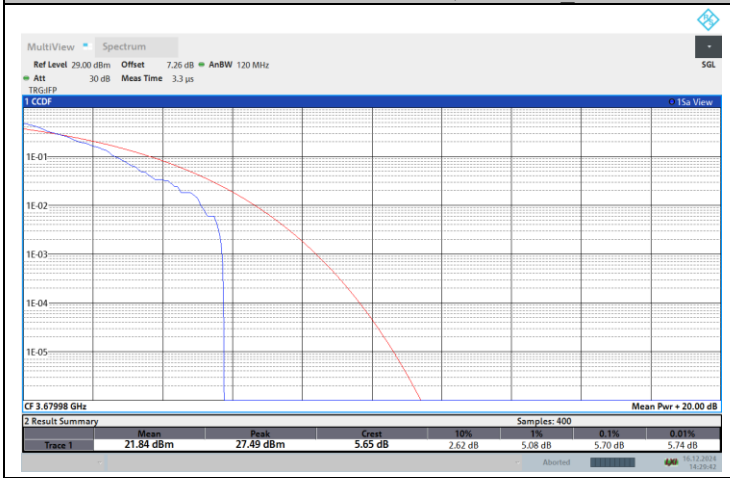
NTNV-N48--PC3-30-40-L-DFT-256QAM-Edge_1RB_Left-PASS



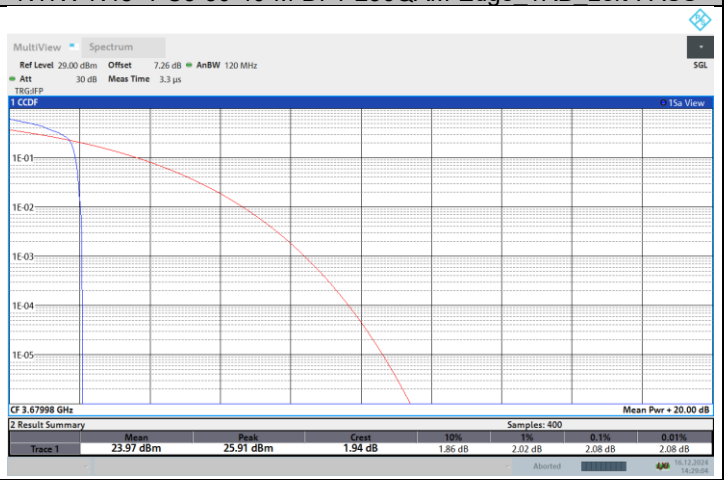
NTNV-N48--PC3-30-40-M-DFT-256QAM-Outer_Full-PASS



NTNV-N48--PC3-30-40-M-DFT-256QAM-Edge_1RB_Left-PASS



NTNV-N48--PC3-30-40-H-DFT-256QAM-Outer_Full-PASS



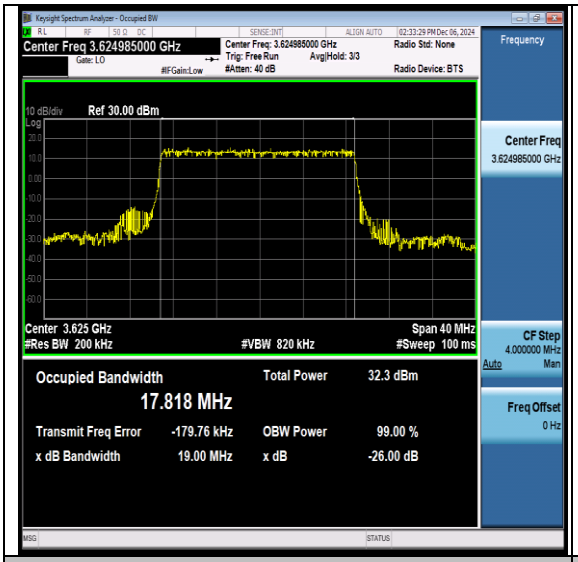
NTNV-N48--PC3-30-40-H-DFT-256QAM-Edge_1RB_Left-PASS

26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

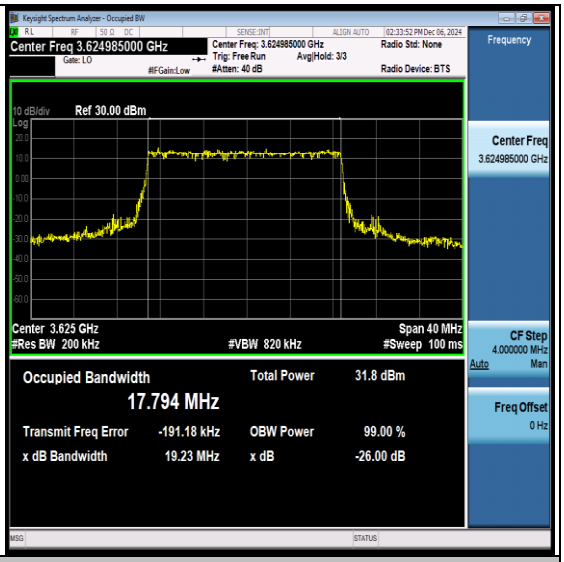
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N48	30	20	DFT-PI2BPSK	M	Outer_Full	17.818	19.00	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	17.794	19.23	PASS
N48	30	20	DFT-16QAM	M	Outer_Full	17.882	19.43	PASS
N48	30	20	DFT-64QAM	M	Outer_Full	17.811	19.35	PASS
N48	30	20	DFT-256QAM	M	Outer_Full	17.820	19.16	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	35.714	37.94	PASS
N48	30	40	DFT-QPSK	M	Outer_Full	35.705	38.86	PASS
N48	30	40	DFT-16QAM	M	Outer_Full	35.795	37.54	PASS
N48	30	40	DFT-64QAM	M	Outer_Full	35.780	37.70	PASS
N48	30	40	DFT-256QAM	M	Outer_Full	35.764	37.65	PASS

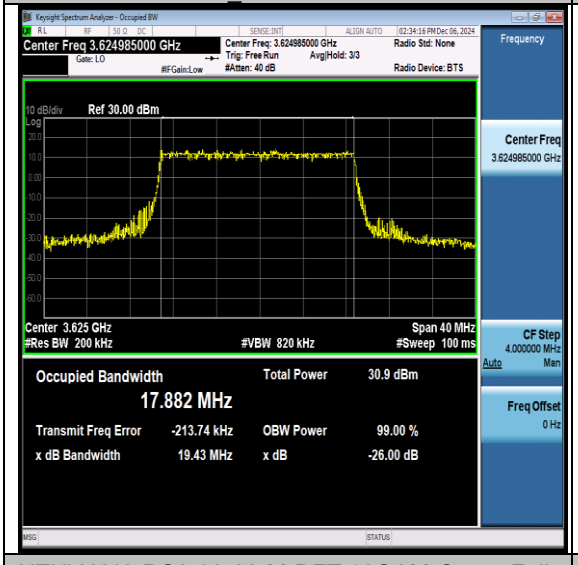
TEST GRAPHS



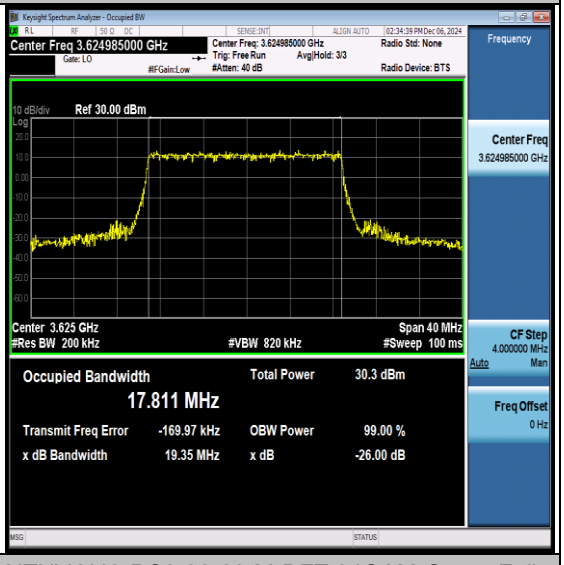
NTNV-N48-PC2-30-20-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



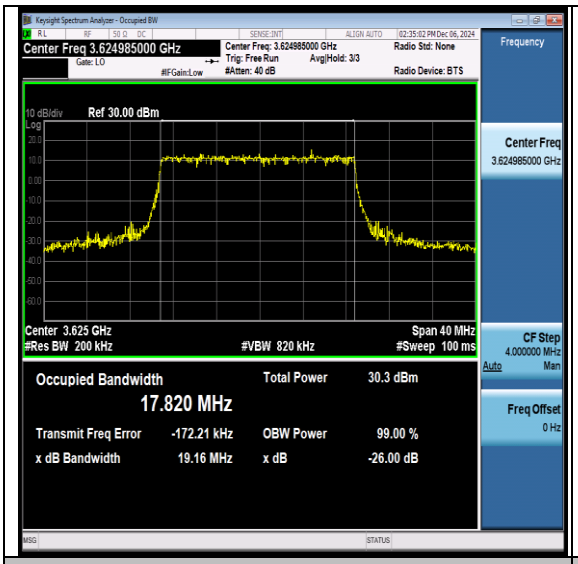
NTNV-N48-PC2-30-20-M-DFT-QPSK-Outer_Full-Ant1-PASS



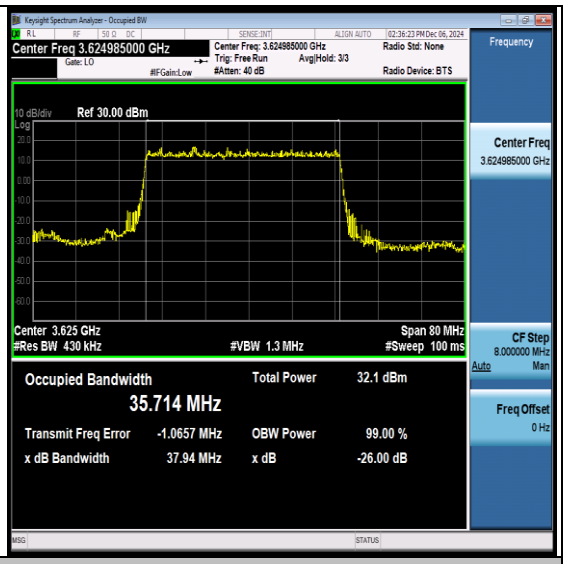
NTNV-N48-PC2-30-20-M-DFT-16QAM-Outer_Full-Ant1-PASS



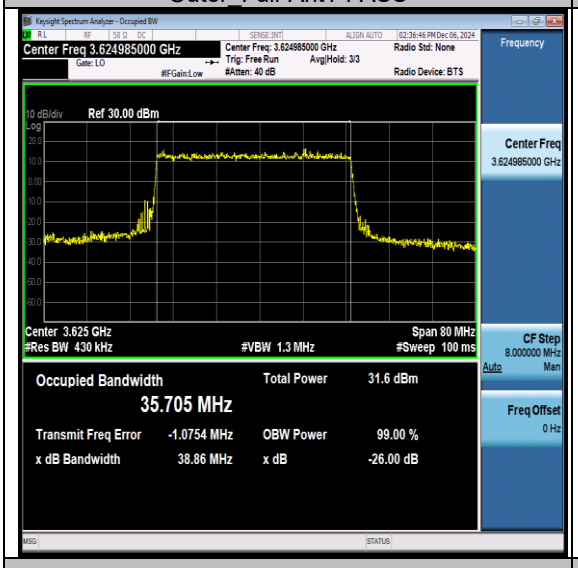
NTNV-N48-PC2-30-20-M-DFT-64QAM-Outer_Full-Ant1-PASS



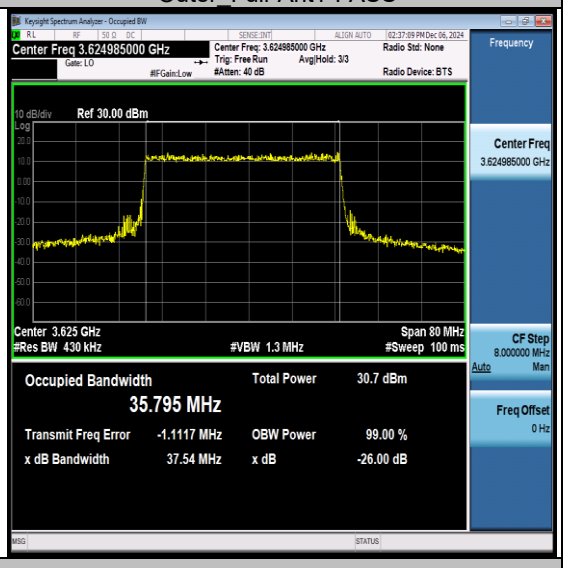
NTNV-N48-PC2-30-20-M-DFT-256QAM-Outer_Full-Ant1-PASS



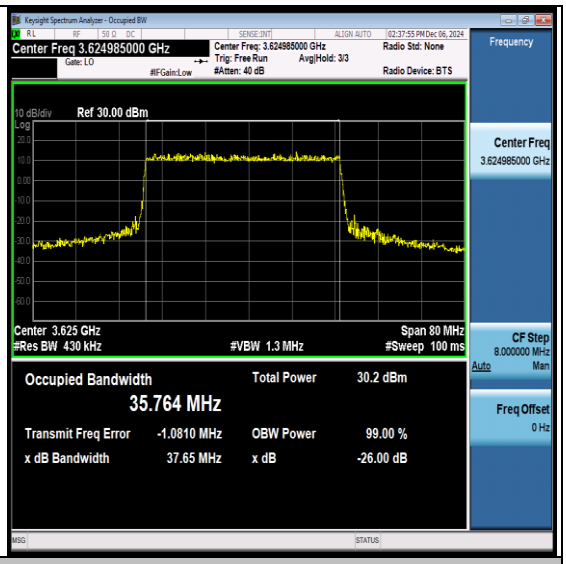
NTNV-N48-PC2-30-40-M-DFT-PI2BPSK-Outer_Full-Ant1-PASS



NTNV-N48-PC2-30-40-M-DFT-QPSK-Outer_Full-Ant1-PASS



NTNV-N48-PC2-30-40-M-DFT-16QAM-Outer_Full-Ant1-PASS

	
NTNV-N48-PC2-30-40-M-DFT-64QAM-Outer_Full-Ant1-PASS	NTNV-N48-PC2-30-40-M-DFT-256QAM-Outer_Full-Ant1-PASS

ACLR FOR SA
TEST RESULT

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	L	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	M	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	M	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	M	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-PI2BPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	≤-30	PASS
N48	30	20	DFT-PI2BPSK	H	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Left	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	H	Edge_1RB_Right	≤-30	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	20	DFT-QPSK	H	Outer_Full	≤-30	PASS
N48	30	40	DFT-PI2BPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-PI2BPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-PI2BPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-PI2BPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	≤-30	PASS
N48	30	40	DFT-PI2BPSK	L	Outer_Full	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Left	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	L	Edge_1RB_Right	≤-30	PASS
N48	30	40	DFT-QPSK	L	Outer_Full	≤-30	PASS