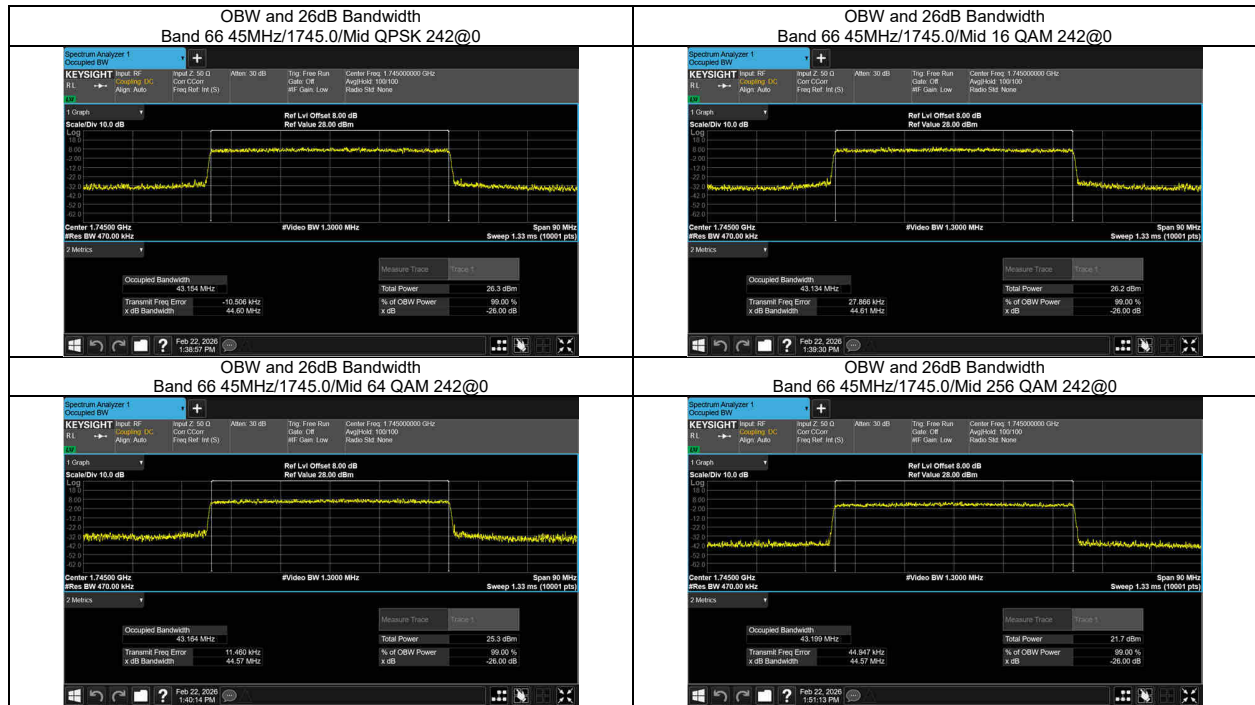






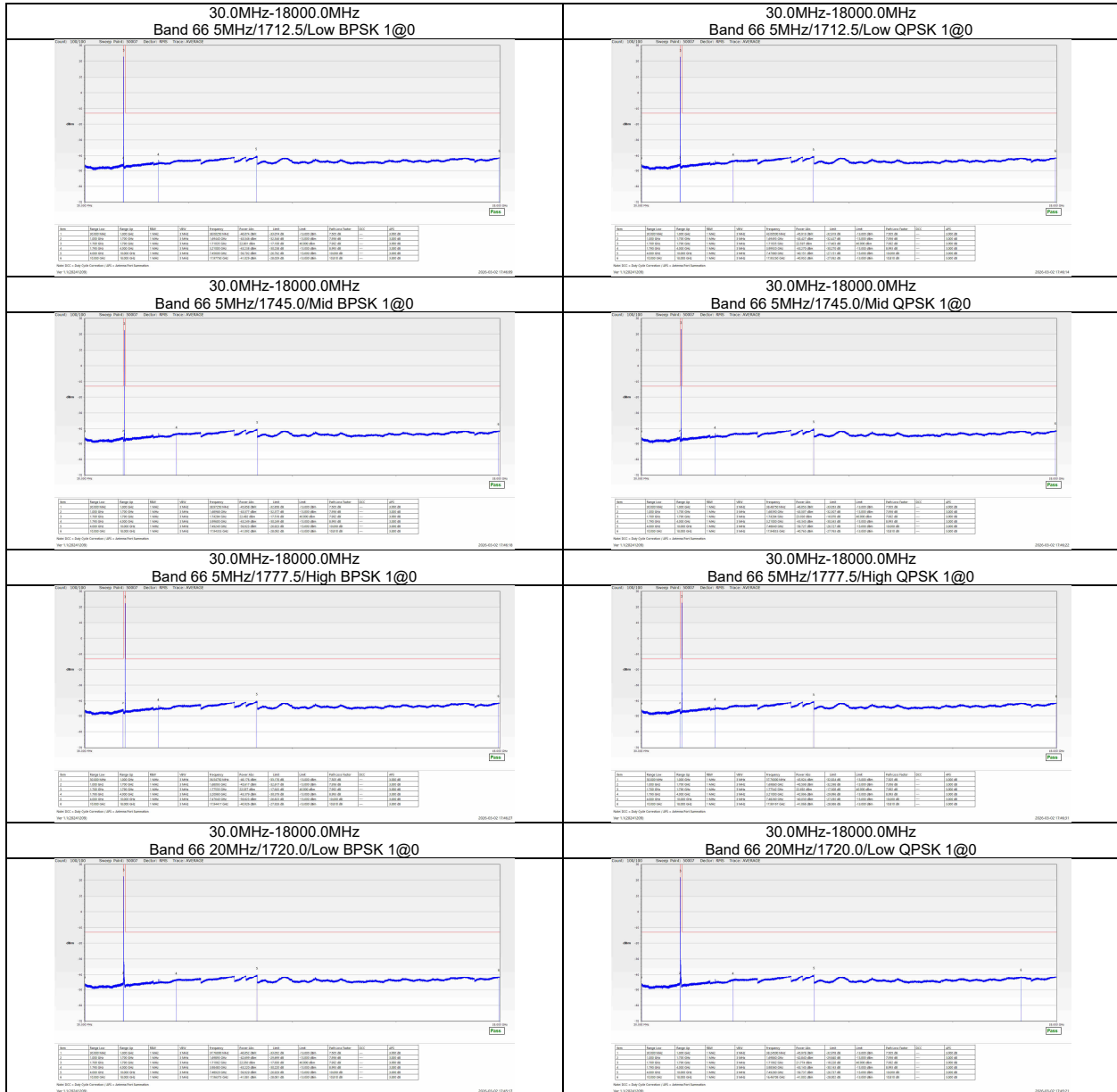
Conducted Spurious Emissions

Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	45	349000	1745.0	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	45	349000	1745.0	DFT-s-OFDM QPSK	1@0	See graph	---
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@0	See graph	---
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	1@0	See graph	---

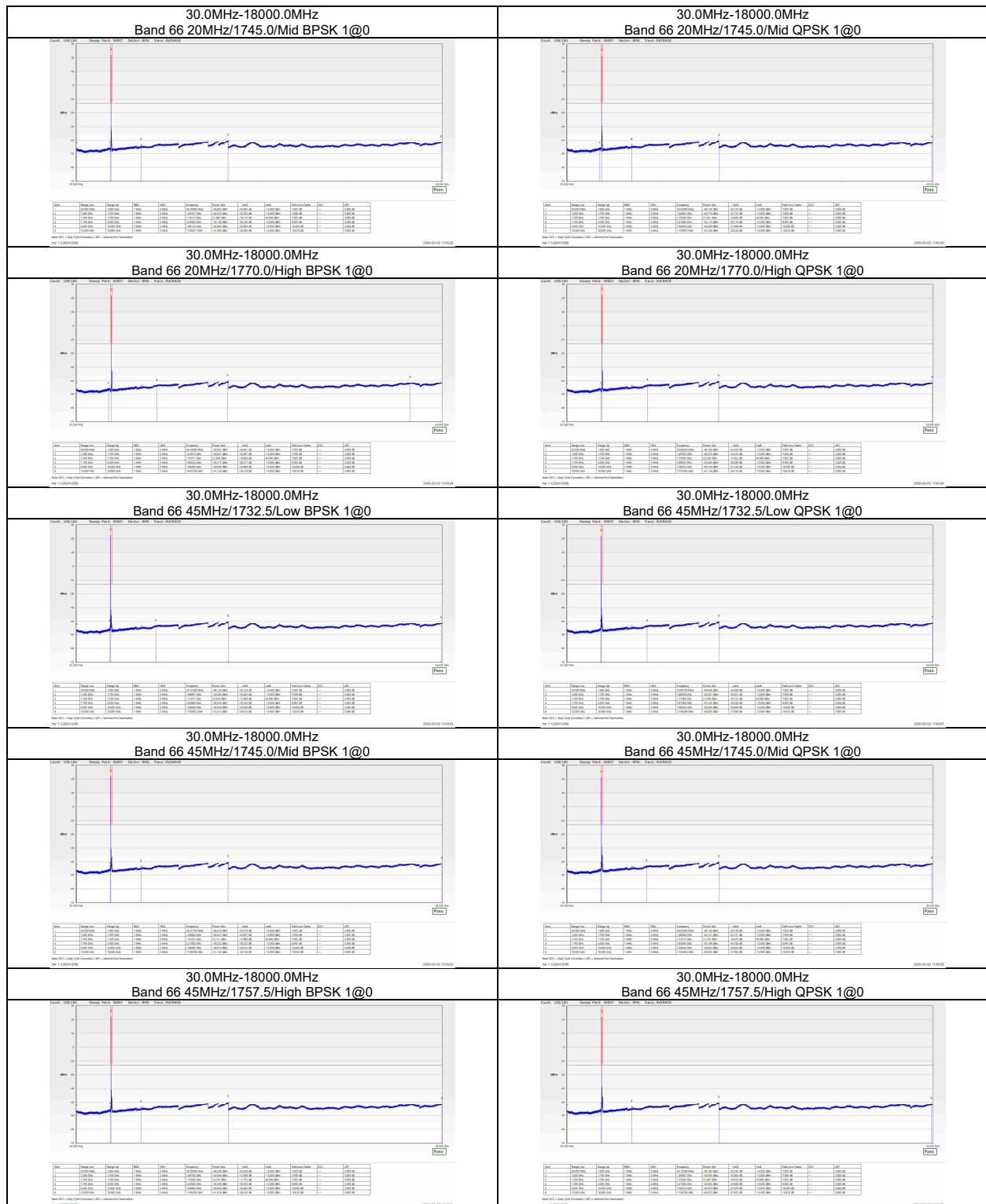


Test Graphs





Report No. : FG612609L





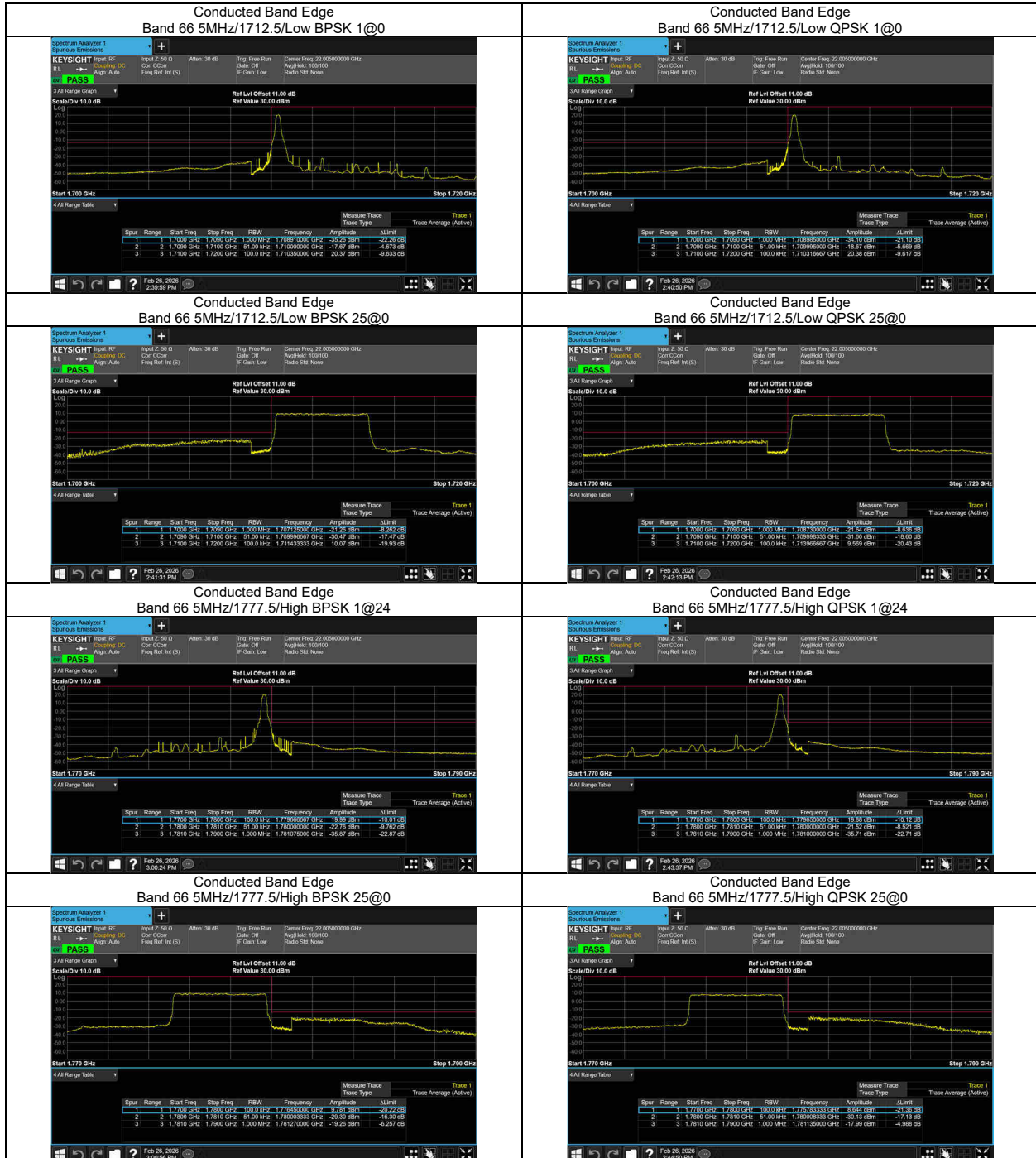
Conducted Band Edge

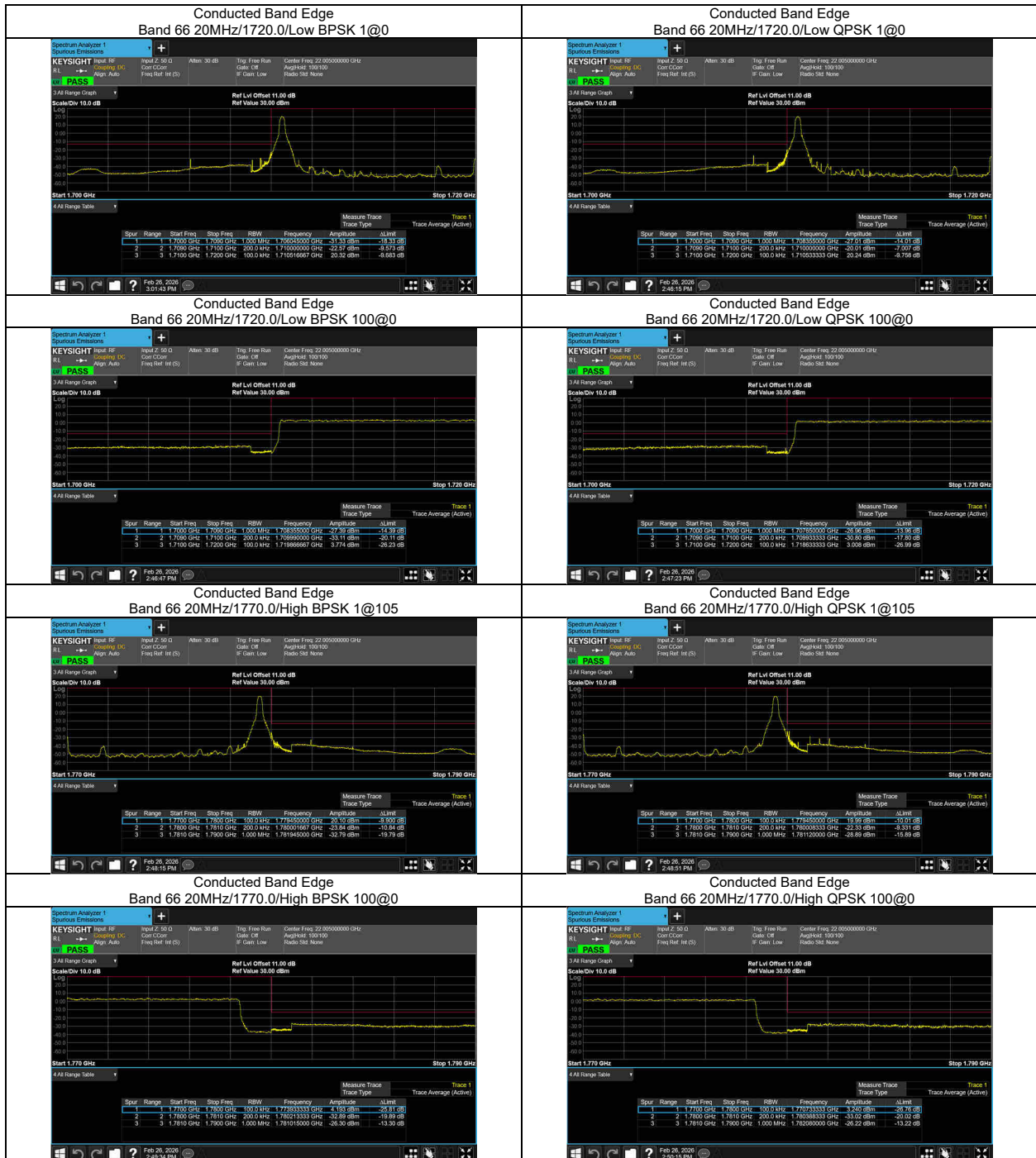
Test Result

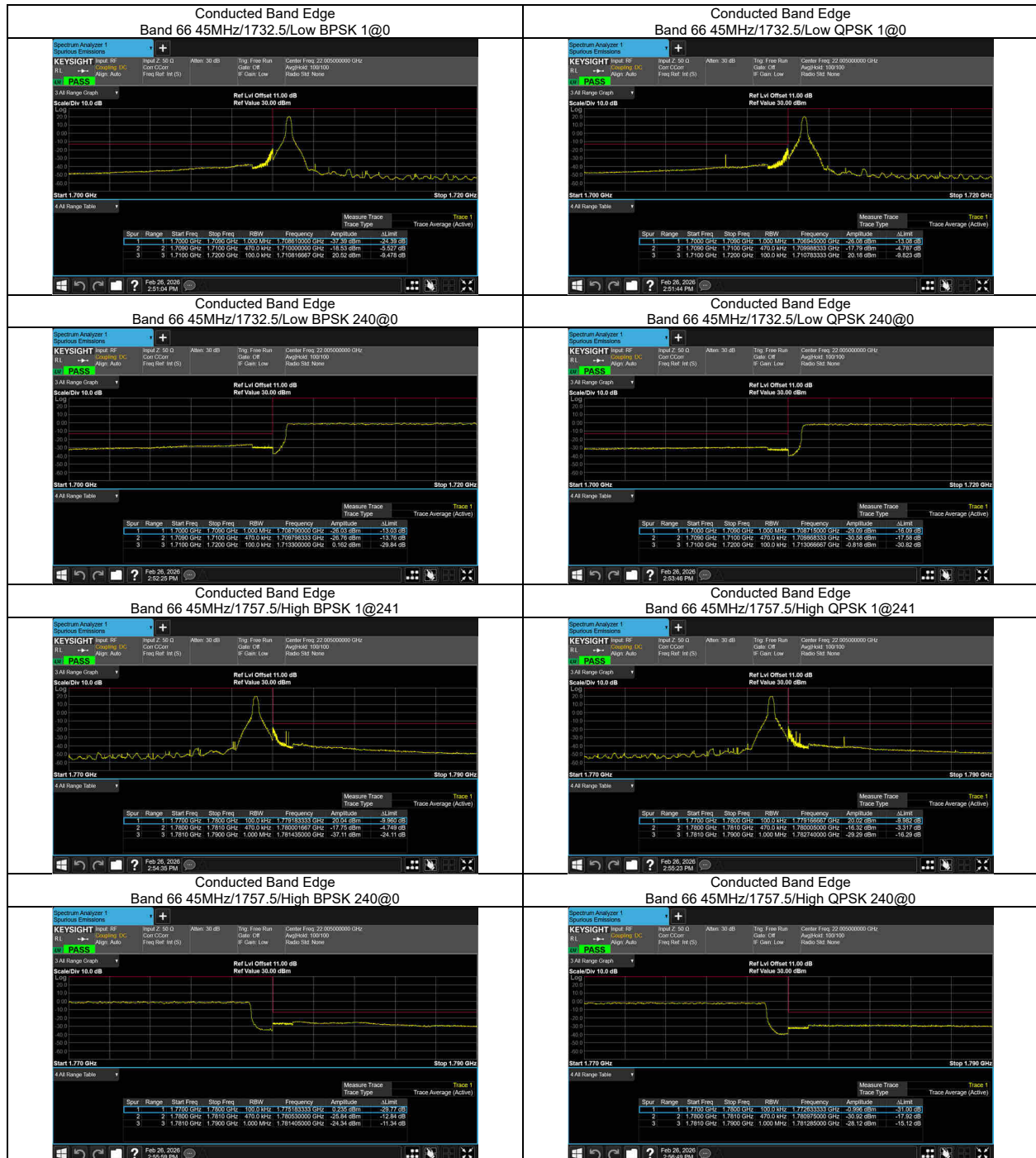
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	See graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	25@0	See graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	25@0	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@24	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@24	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	25@0	See graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	25@0	See graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	See graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	100@0	See graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	100@0	See graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@105	See graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@105	See graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	100@0	See graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	100@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	1@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM BPSK	240@0	See graph	PASS
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	240@0	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	1@241	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	1@241	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM BPSK	240@0	See graph	PASS
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	240@0	See graph	PASS



Test Graphs







**RF UL MIMO N66 ANT1****Frequency Stability****Test Graphs**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	18.3	PASS	NV
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	11.2	PASS	LV
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	17.6	PASS	HV
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	10.9	PASS	-30℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	13.9	PASS	-20℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	14.8	PASS	-10℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	16.9	PASS	0℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	17.3	PASS	10℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	18.3	PASS	20℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	12.5	PASS	30℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	16.2	PASS	40℃
66	15	20	344000	1720	DFT-s-OFDM QPSK	100@0	14	PASS	50℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	11.9	PASS	NV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	13.4	PASS	LV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	19.1	PASS	HV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	11	PASS	-30℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	18.4	PASS	-20℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	14.1	PASS	-10℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	10.6	PASS	0℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	11.5	PASS	10℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	11.9	PASS	20℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	19.3	PASS	30℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	16.1	PASS	40℃
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	15.4	PASS	50℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	11	PASS	NV
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	10.5	PASS	LV
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	14.3	PASS	HV
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	11.8	PASS	-30℃



NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	16.8	PASS	-20℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	19	PASS	-10℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	11	PASS	0℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	16.3	PASS	10℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	11	PASS	20℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	17.9	PASS	30℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	12.2	PASS	40℃
66	15	20	354000	1770	DFT-s-OFDM QPSK	100@0	15.3	PASS	50℃

$|\text{MAX}(\Delta f)| = 19.3\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	1710.529381	$\geq 1710 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	1779.430619	$\leq 1780 \text{ MHz}$	



Peak to Average Ratio

Test Result

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM PI/2 BPSK	25@0	4.77	13	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	25@0	4.83	13	PASS
66	15	5	349000	1745.0	DFT-s-OFDM PI/2 BPSK	25@0	4.78	13	PASS
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	25@0	4.78	13	PASS
66	15	5	355500	1777.5	DFT-s-OFDM PI/2 BPSK	25@0	4.86	13	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	25@0	4.82	13	PASS
66	15	10	343000	1715.0	DFT-s-OFDM PI/2 BPSK	50@0	4.88	13	PASS
66	15	10	343000	1715.0	DFT-s-OFDM QPSK	50@0	4.94	13	PASS
66	15	10	349000	1745.0	DFT-s-OFDM PI/2 BPSK	50@0	4.92	13	PASS
66	15	10	349000	1745.0	DFT-s-OFDM QPSK	50@0	4.91	13	PASS
66	15	10	355000	1775.0	DFT-s-OFDM PI/2 BPSK	50@0	4.98	13	PASS
66	15	10	355000	1775.0	DFT-s-OFDM QPSK	50@0	4.95	13	PASS
66	15	15	343500	1717.5	DFT-s-OFDM PI/2 BPSK	75@0	4.88	13	PASS
66	15	15	343500	1717.5	DFT-s-OFDM QPSK	75@0	4.86	13	PASS
66	15	15	349000	1745.0	DFT-s-OFDM PI/2 BPSK	75@0	4.87	13	PASS
66	15	15	349000	1745.0	DFT-s-OFDM QPSK	75@0	4.85	13	PASS
66	15	15	354500	1772.5	DFT-s-OFDM PI/2 BPSK	75@0	4.91	13	PASS
66	15	15	354500	1772.5	DFT-s-OFDM QPSK	75@0	4.93	13	PASS
66	15	20	344000	1720.0	DFT-s-OFDM PI/2 BPSK	100@0	4.93	13	PASS
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	100@0	4.89	13	PASS
66	15	20	349000	1745.0	DFT-s-OFDM PI/2 BPSK	100@0	4.88	13	PASS
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	4.87	13	PASS
66	15	20	354000	1770.0	DFT-s-OFDM PI/2 BPSK	100@0	4.92	13	PASS
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	100@0	4.89	13	PASS
66	15	25	344500	1722.5	DFT-s-OFDM PI/2 BPSK	128@0	5.02	13	PASS
66	15	25	344500	1722.5	DFT-s-OFDM QPSK	128@0	5.03	13	PASS
66	15	25	349000	1745.0	DFT-s-OFDM PI/2 BPSK	128@0	4.87	13	PASS
66	15	25	349000	1745.0	DFT-s-OFDM QPSK	128@0	4.94	13	PASS
66	15	25	353500	1767.5	DFT-s-OFDM PI/2 BPSK	128@0	4.96	13	PASS
66	15	25	353500	1767.5	DFT-s-OFDM QPSK	128@0	4.91	13	PASS
66	15	30	345000	1725.0	DFT-s-OFDM PI/2 BPSK	160@0	4.99	13	PASS
66	15	30	345000	1725.0	DFT-s-OFDM QPSK	160@0	4.94	13	PASS
66	15	30	349000	1745.0	DFT-s-OFDM PI/2 BPSK	160@0	4.84	13	PASS
66	15	30	349000	1745.0	DFT-s-OFDM QPSK	160@0	4.84	13	PASS
66	15	30	353000	1765.0	DFT-s-OFDM PI/2 BPSK	160@0	4.93	13	PASS
66	15	30	353000	1765.0	DFT-s-OFDM QPSK	160@0	4.97	13	PASS
66	15	35	345500	1727.5	DFT-s-OFDM PI/2 BPSK	180@0	4.91	13	PASS
66	15	35	345500	1727.5	DFT-s-OFDM QPSK	180@0	4.92	13	PASS



NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	15	35	349000	1745.0	DFT-s-OFDM PI/2 BPSK	180@0	4.86	13	PASS
66	15	35	349000	1745.0	DFT-s-OFDM QPSK	180@0	4.84	13	PASS
66	15	35	352500	1762.5	DFT-s-OFDM PI/2 BPSK	180@0	4.89	13	PASS
66	15	35	352500	1762.5	DFT-s-OFDM QPSK	180@0	4.93	13	PASS
66	15	40	346000	1730.0	DFT-s-OFDM PI/2 BPSK	216@0	4.96	13	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	216@0	4.88	13	PASS
66	15	40	349000	1745.0	DFT-s-OFDM PI/2 BPSK	216@0	4.99	13	PASS
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	216@0	4.96	13	PASS
66	15	40	352000	1760.0	DFT-s-OFDM PI/2 BPSK	216@0	5.11	13	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	216@0	5.15	13	PASS
66	15	45	346500	1732.5	DFT-s-OFDM PI/2 BPSK	240@0	4.85	13	PASS
66	15	45	346500	1732.5	DFT-s-OFDM QPSK	240@0	5.0	13	PASS
66	15	45	349000	1745.0	DFT-s-OFDM PI/2 BPSK	240@0	4.96	13	PASS
66	15	45	349000	1745.0	DFT-s-OFDM QPSK	240@0	4.96	13	PASS
66	15	45	351500	1757.5	DFT-s-OFDM PI/2 BPSK	240@0	5.12	13	PASS
66	15	45	351500	1757.5	DFT-s-OFDM QPSK	240@0	5.1	13	PASS



Test Graphs

N66(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





N66(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



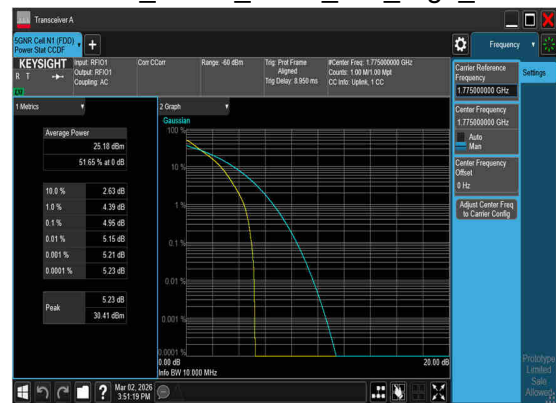
N66(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



N66(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



N66(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





N66(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



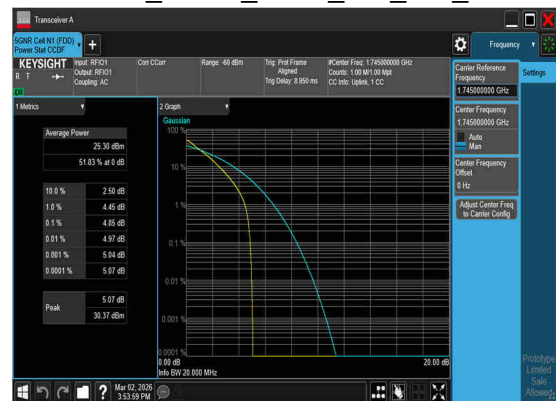
N66(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N66(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





N66(25M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



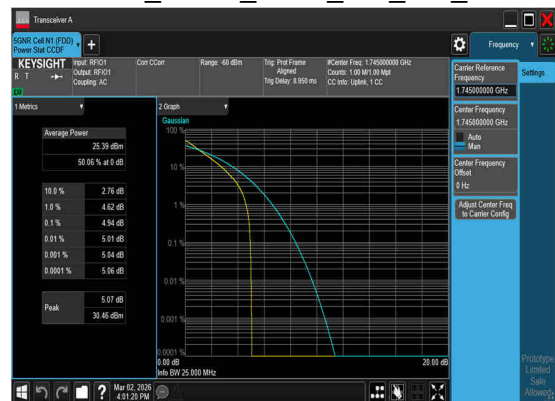
N66(25M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(25M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N66(25M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH





N66(25M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_High_CH



N66(25M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



N66(30M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Low_CH



N66(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

