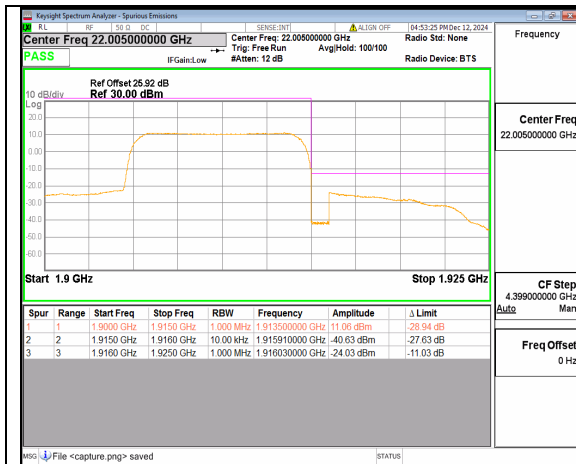
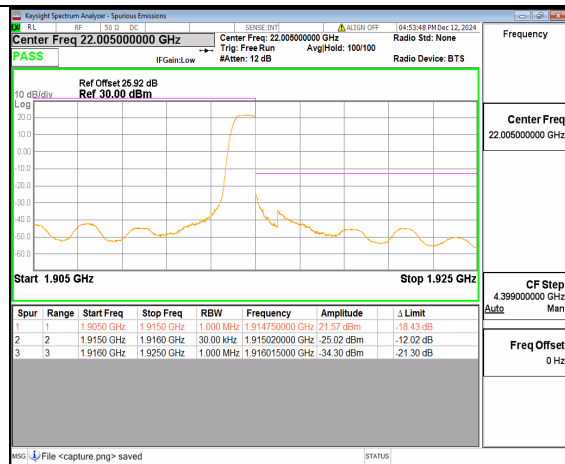
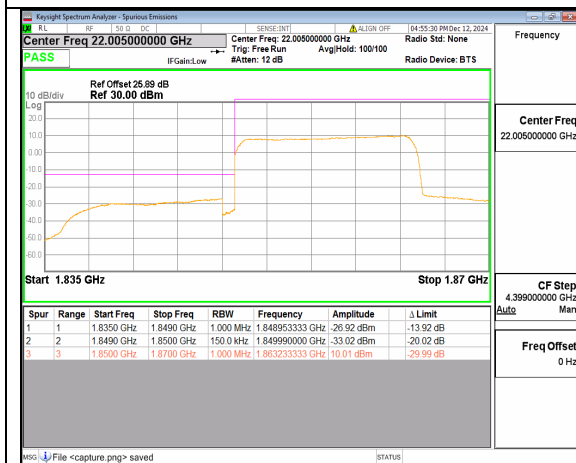




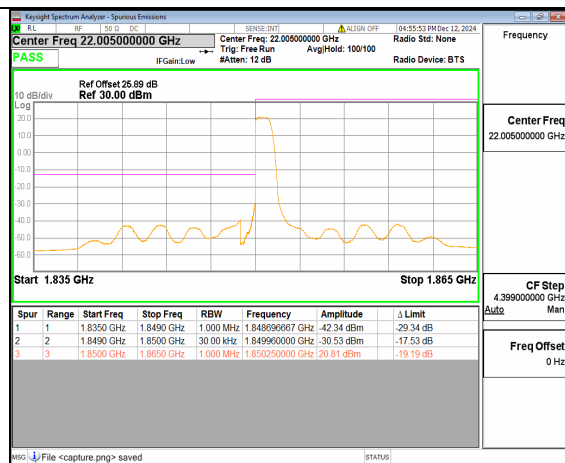
n25 10M DFT-s-OFDM QPSK
Outer_Full High



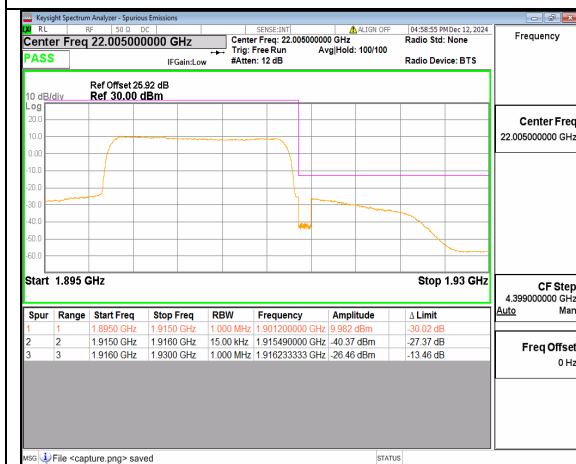
n25 10M DFT-s-OFDM QPSK
Edge_1RB_Right High



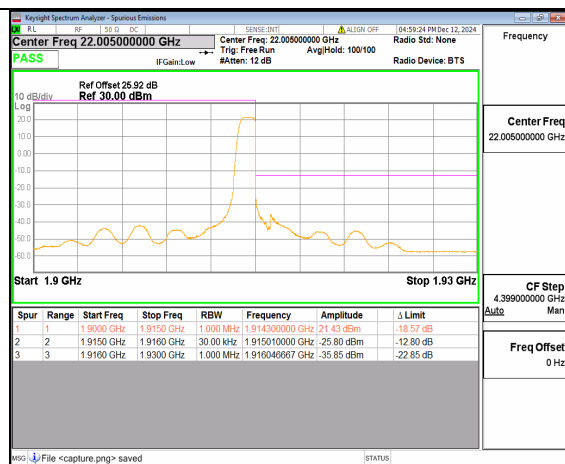
n25 15M DFT-s-OFDM QPSK
Outer_Full Low



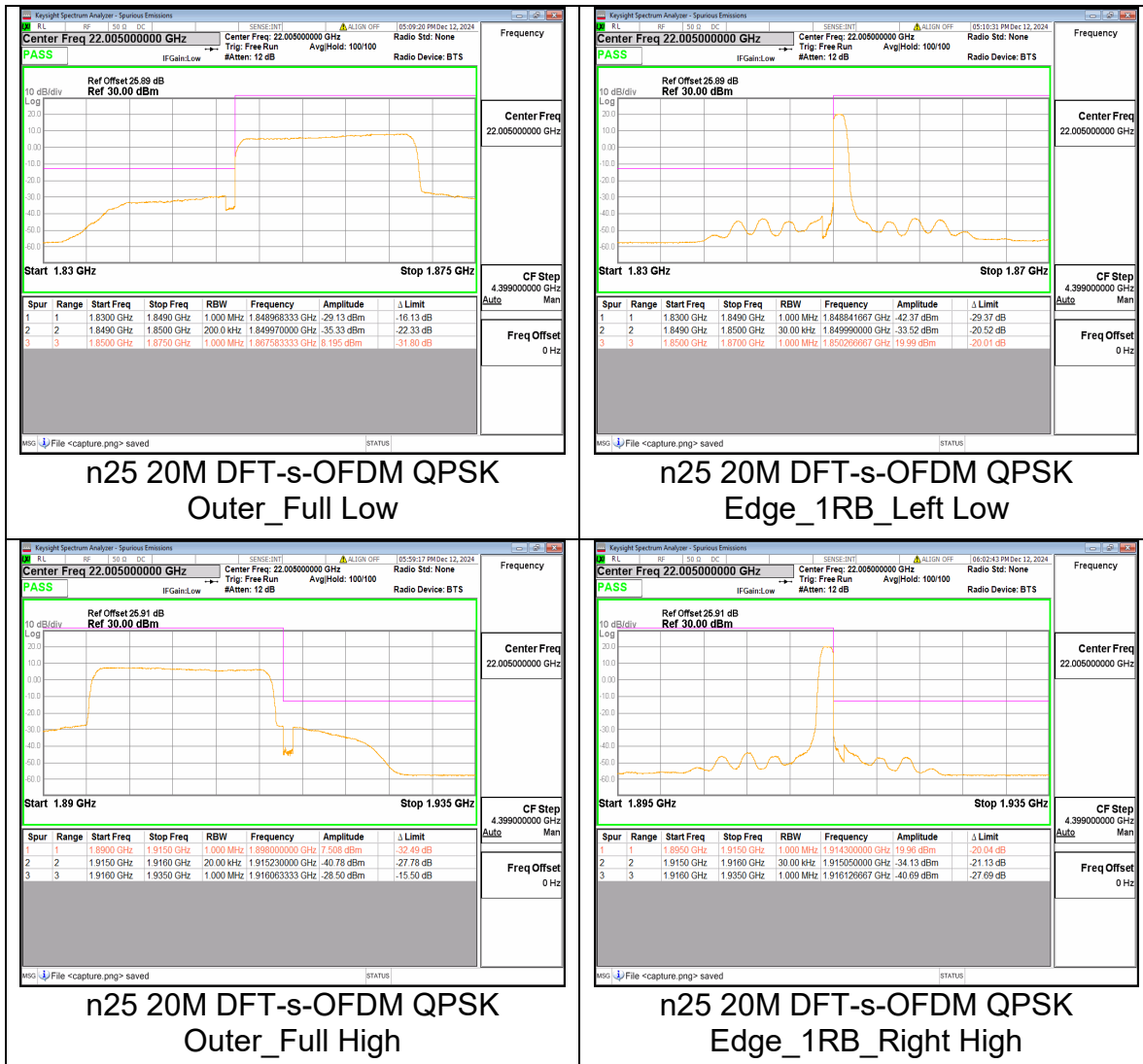
n25 15M DFT-s-OFDM QPSK
Edge_1RB_Left Low



n25 15M DFT-s-OFDM QPSK
Outer_Full High

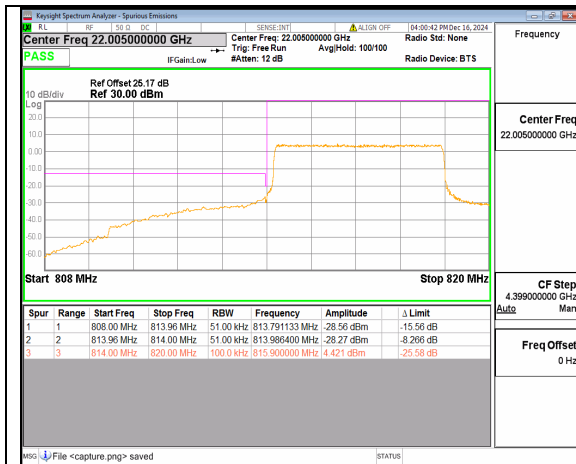


n25 15M DFT-s-OFDM QPSK
Edge_1RB_Right High

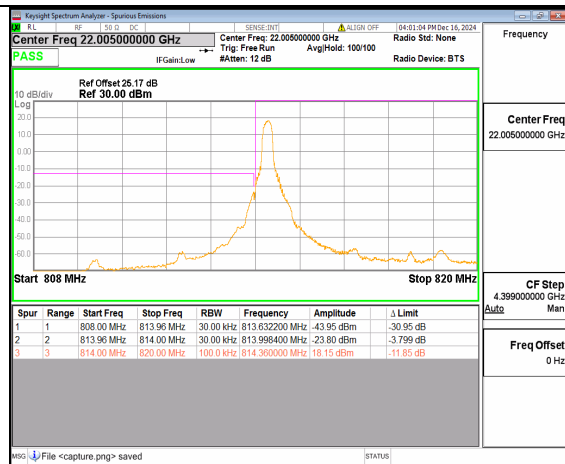


Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Verdict
n26(814-824MHz)	15	5	163300	DFT-s-OFDM QPSK	25/0	PASS
n26(814-824MHz)	15	5	163300	DFT-s-OFDM QPSK	1/0	PASS
n26(814-824MHz)	15	5	164300	DFT-s-OFDM QPSK	25/0	PASS
n26(814-824MHz)	15	5	164300	DFT-s-OFDM QPSK	1/24	PASS
n26(814-824MHz)	15	10	163800	DFT-s-OFDM QPSK	50/0	PASS
n26(814-824MHz)	15	10	163800	DFT-s-OFDM QPSK	1/0	PASS
n26(814-824MHz)	15	10	163800	DFT-s-OFDM QPSK	50/0	PASS

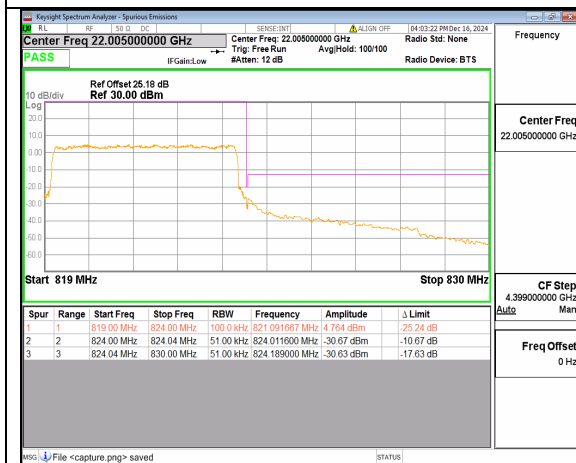
n26(814-824MHz)	15	10	163800	DFT-s-OFDM QPSK	1/51	PASS
n26(824-849MHz)	15	5	165300	DFT-s-OFDM QPSK	25/0	PASS
n26(824-849MHz)	15	5	165300	DFT-s-OFDM QPSK	1/0	PASS
n26(824-849MHz)	15	5	169300	DFT-s-OFDM QPSK	25/0	PASS
n26(824-849MHz)	15	5	169300	DFT-s-OFDM QPSK	1/24	PASS
n26(824-849MHz)	15	10	165800	DFT-s-OFDM QPSK	50/0	PASS
n26(824-849MHz)	15	10	165800	DFT-s-OFDM QPSK	1/0	PASS
n26(824-849MHz)	15	10	168800	DFT-s-OFDM QPSK	50/0	PASS
n26(824-849MHz)	15	10	168800	DFT-s-OFDM QPSK	1/51	PASS
n26(824-849MHz)	15	15	166300	DFT-s-OFDM QPSK	75/0	PASS
n26(824-849MHz)	15	15	166300	DFT-s-OFDM QPSK	1/0	PASS
n26(824-849MHz)	15	15	168300	DFT-s-OFDM QPSK	75/0	PASS
n26(824-849MHz)	15	15	168300	DFT-s-OFDM QPSK	1/78	PASS
n26(824-849MHz)	15	20	166800	DFT-s-OFDM QPSK	100/0	PASS
n26(824-849MHz)	15	20	166800	DFT-s-OFDM QPSK	1/0	PASS
n26(824-849MHz)	15	20	167800	DFT-s-OFDM QPSK	100/0	PASS
n26(824-849MHz)	15	20	167800	DFT-s-OFDM QPSK	1/105	PASS



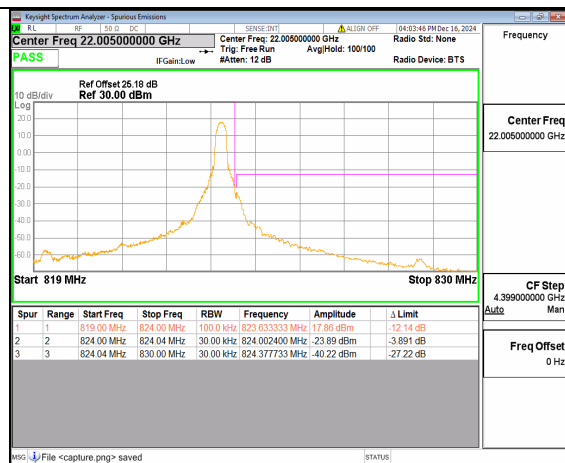
n26(814-824MHz) 5M DFT-s-OFDM
QPSK Outer_Full Low



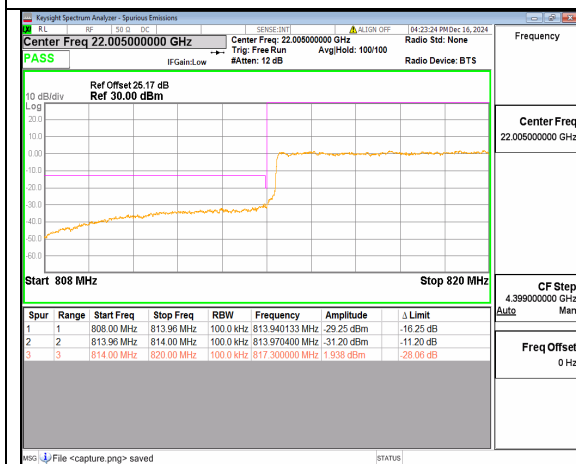
n26(814-824MHz) 5M DFT-s-OFDM
QPSK Edge_1RB_Left Low



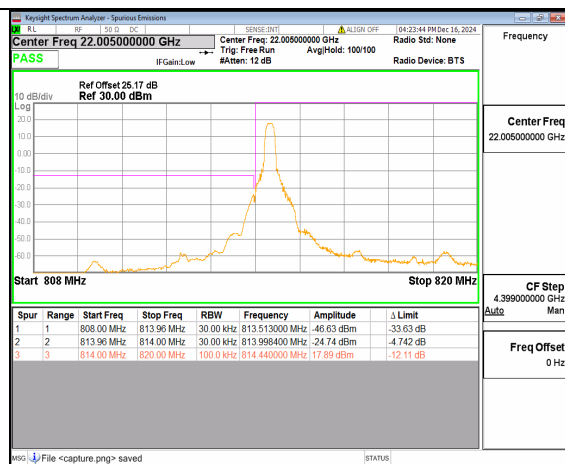
n26(814-824MHz) 5M DFT-s-OFDM
QPSK Outer_Full High



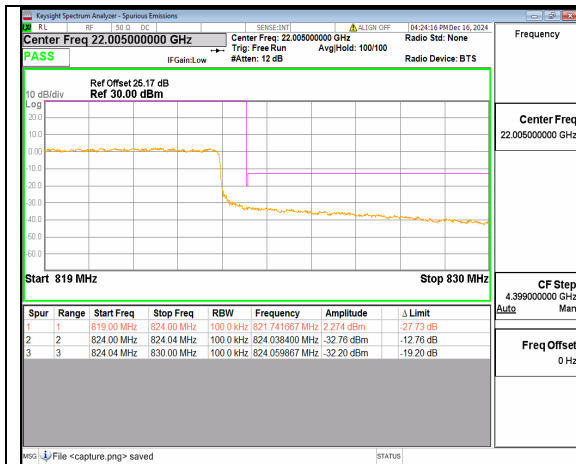
n26(814-824MHz) 5M DFT-s-OFDM
QPSK Edge_1RB_Right High



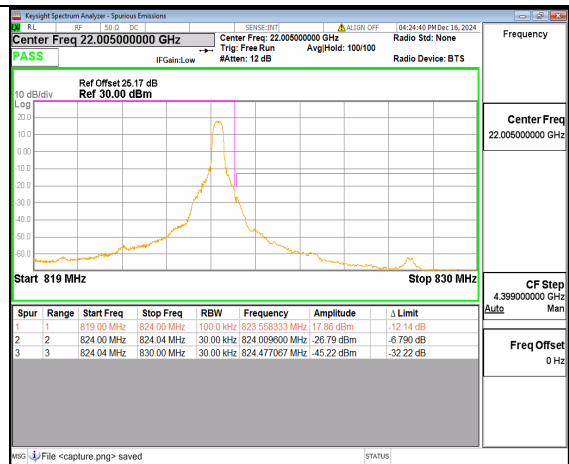
n26(814-824MHz) 10M DFT-s-OFDM
QPSK Outer_Full Low



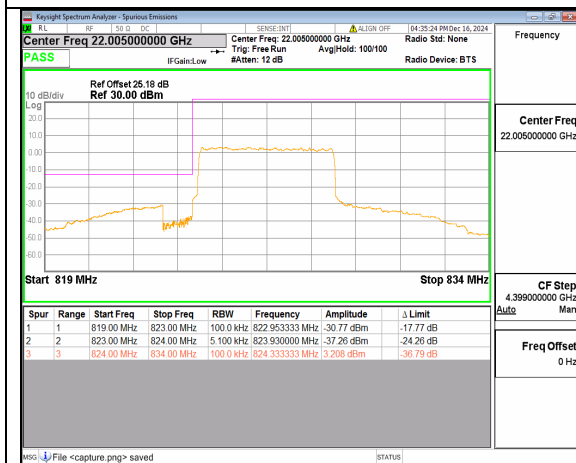
n26(814-824MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Left Low



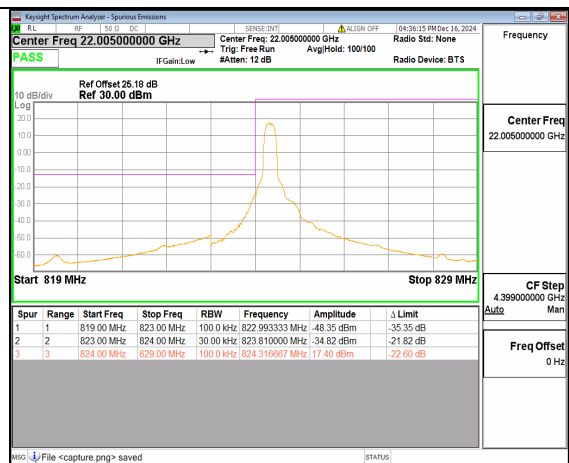
n26(814-824MHz) 10M DFT-s-OFDM
QPSK Outer_Full High



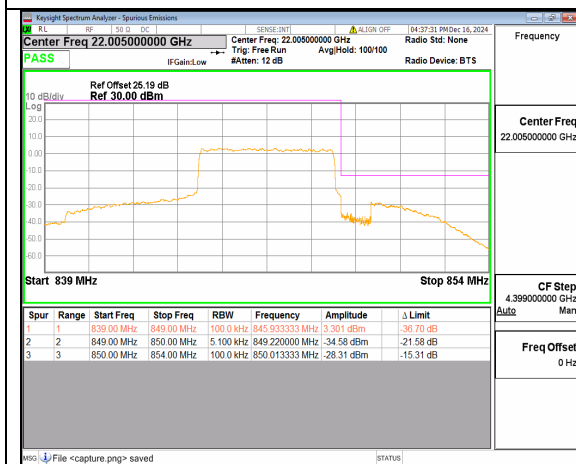
n26(814-824MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Right High



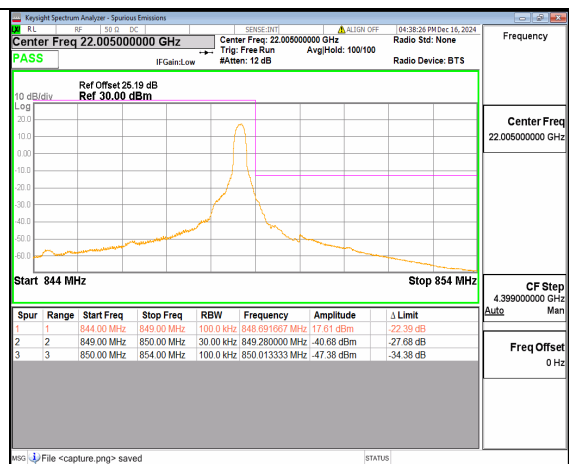
n26(824-849MHz) 5M DFT-s-OFDM
QPSK Outer_Full Low



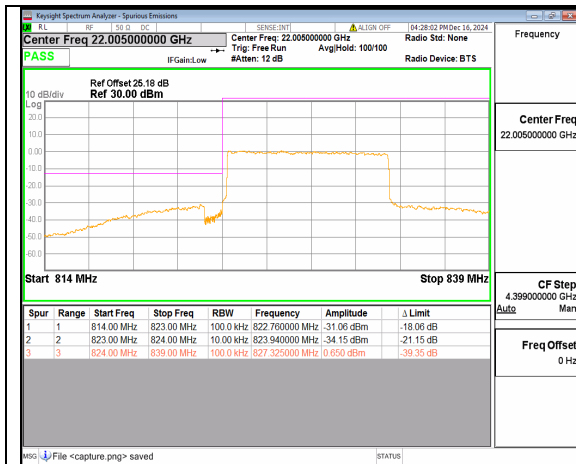
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QPSK Edge_1RB_Left Low



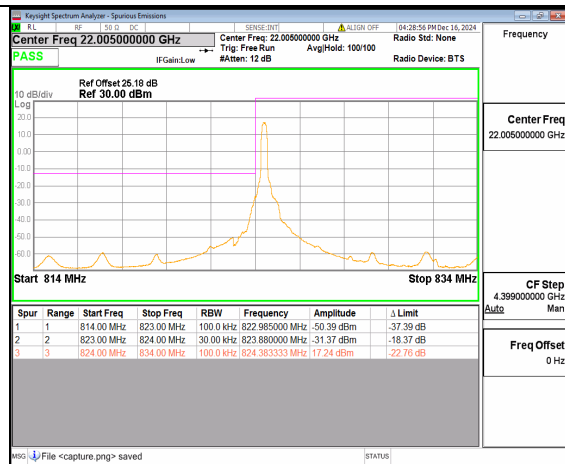
n26(824-849MHz) 5M DFT-s-OFDM
QPSK Outer_Full High



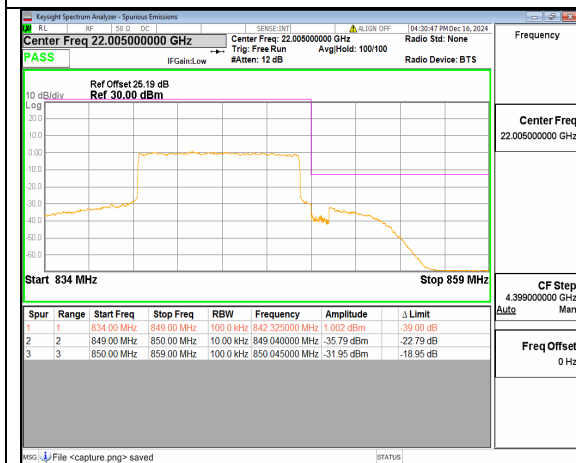
n26(824-849MHz) 5M DFT-s-OFDM
QPSK Edge_1RB_Right High



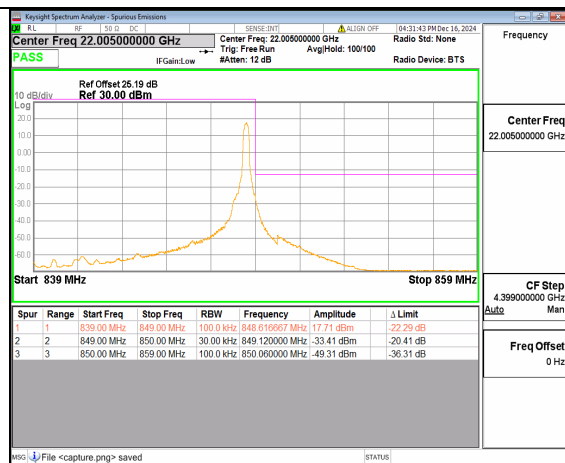
n26(824-849MHz) 10M DFT-s-OFDM
QPSK Outer_Full Low



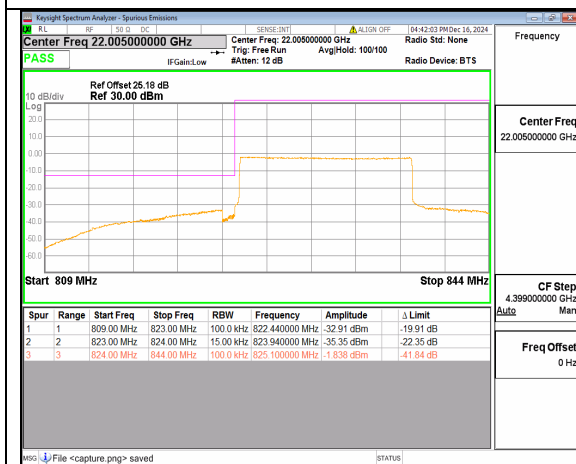
n26(824-849MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Left Low



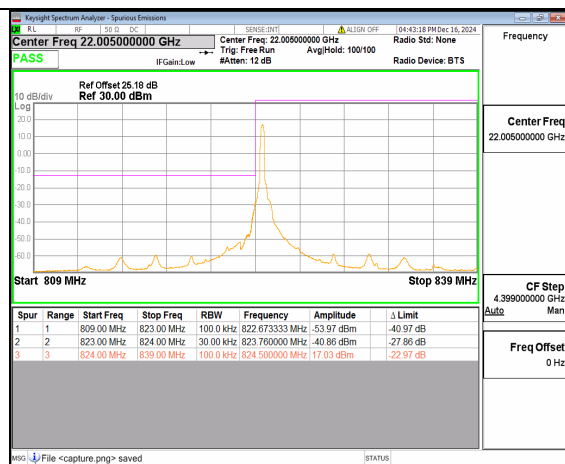
n26(824-849MHz) 10M DFT-s-OFDM
QPSK Outer_Full High



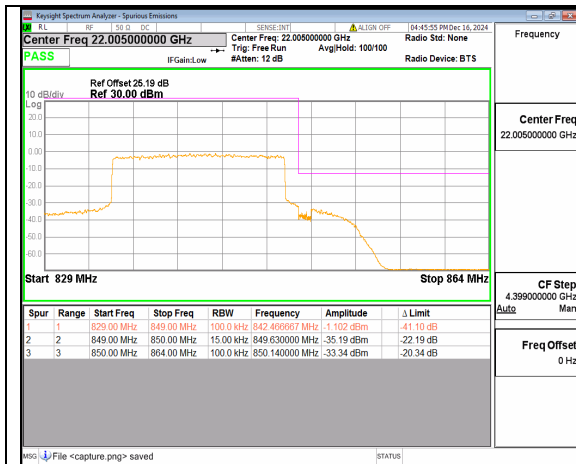
n26(824-849MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Right High



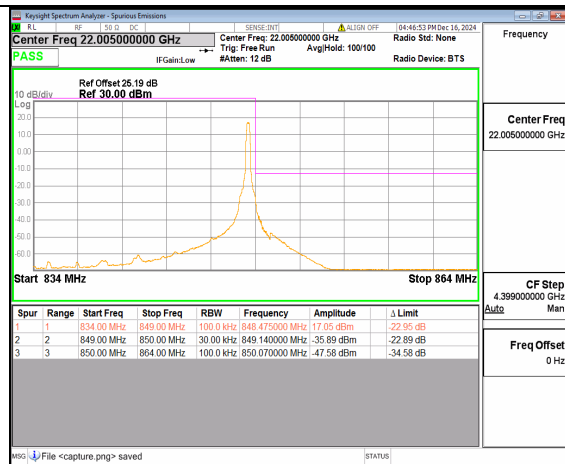
n26(824-849MHz) 15M DFT-s-OFDM
QPSK Outer_Full Low



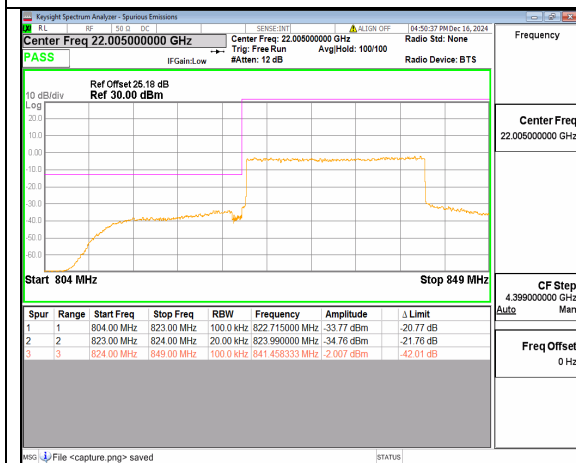
n26(824-849MHz) 15M DFT-s-OFDM
QPSK Edge_1RB_Left Low



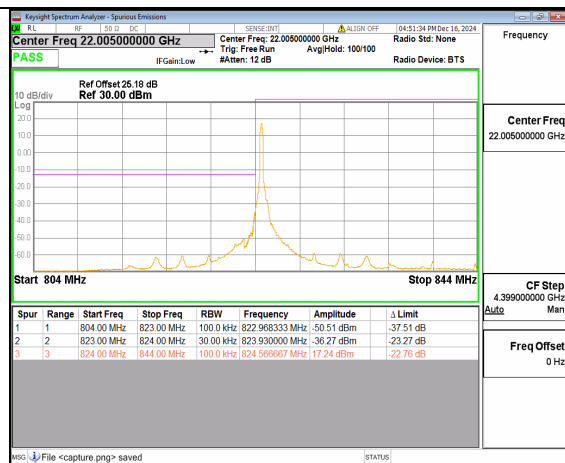
n26(824-849MHz) 15M DFT-s-OFDM
QPSK Outer_Full High



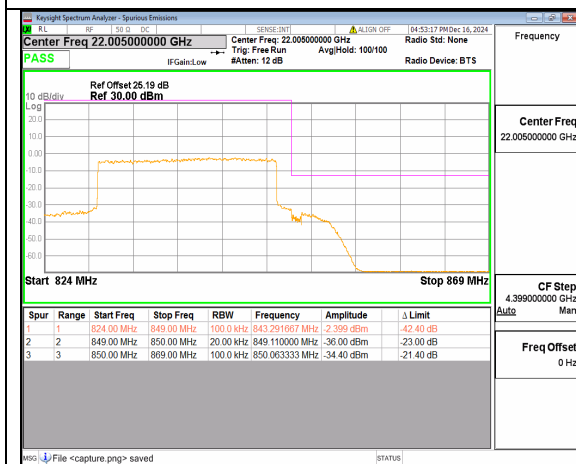
n26(824-849MHz) 15M DFT-s-OFDM
QPSK Edge_1RB_Right High



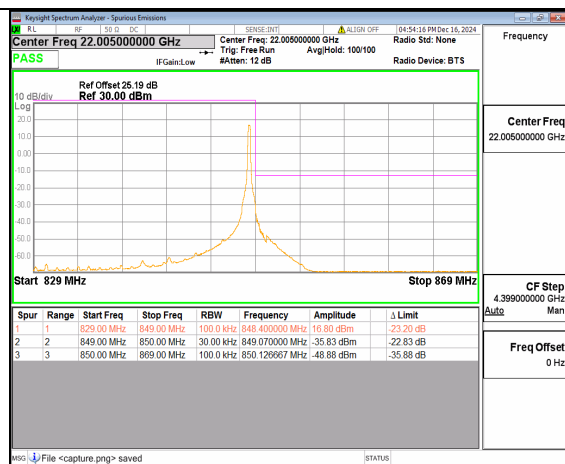
n26(824-849MHz) 20M DFT-s-OFDM
QPSK Outer_Full Low



n26(824-849MHz) 20M DFT-s-OFDM
QPSK Edge_1RB_Left Low



n26(824-849MHz) 20M DFT-s-OFDM
QPSK Outer_Full High

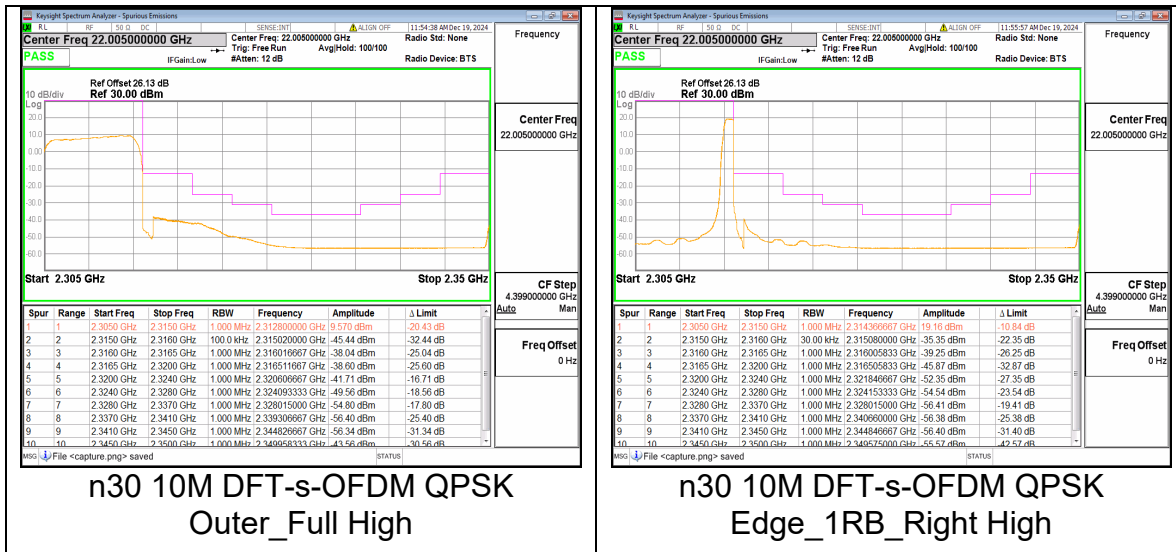


n26(824-849MHz) 20M DFT-s-OFDM
QPSK Edge_1RB_Right High

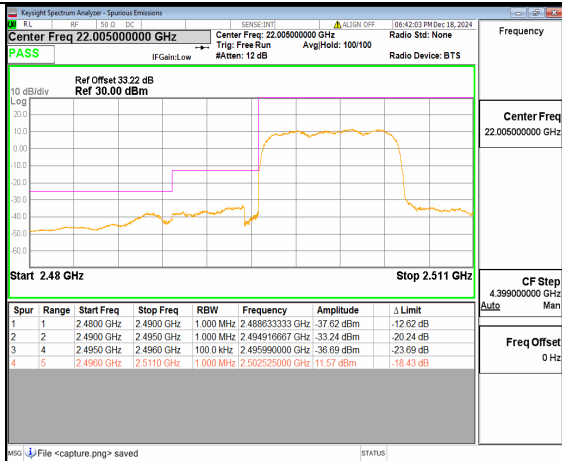
Band	SCS	BW	ARFCN	Modulation	RB	Verdict
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	(kHz)	(MHz)				
n30	15	5	461500	DFT-s-OFDM QPSK	25/0	PASS
n30	15	5	461500	DFT-s-OFDM QPSK	1/0	PASS
n30	15	5	462500	DFT-s-OFDM QPSK	25/0	PASS
n30	15	5	462500	DFT-s-OFDM QPSK	1/24	PASS
n30	15	10	462000	DFT-s-OFDM QPSK	50/0	PASS
n30	15	10	462000	DFT-s-OFDM QPSK	1/0	PASS
n30	15	10	462000	DFT-s-OFDM QPSK	50/0	PASS
n30	15	10	462000	DFT-s-OFDM QPSK	1/51	PASS

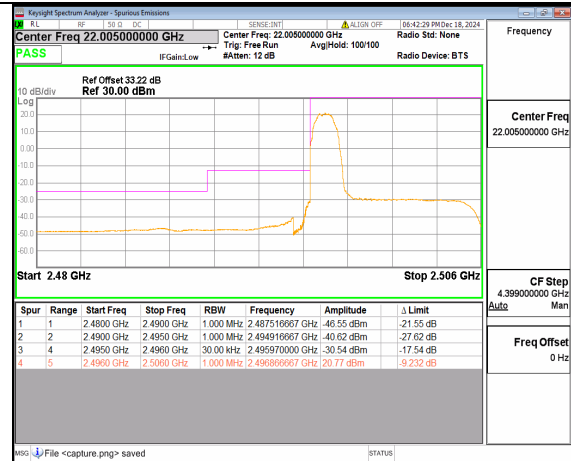




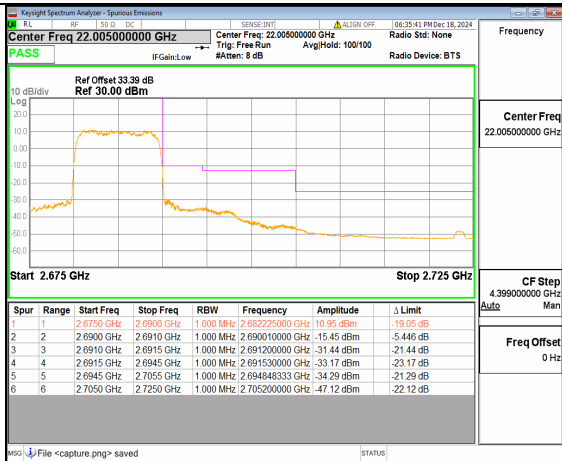
Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Verdict
n41	30	10	500202	DFT-s-OFDM QPSK	24/0	PASS
n41	30	10	500202	DFT-s-OFDM QPSK	1/0	PASS
n41	30	10	537000	DFT-s-OFDM QPSK	24/0	PASS
n41	30	10	537000	DFT-s-OFDM QPSK	1/23	PASS
n41	30	15	500700	DFT-s-OFDM QPSK	36/0	PASS
n41	30	15	500700	DFT-s-OFDM QPSK	1/0	PASS
n41	30	15	536496	DFT-s-OFDM QPSK	36/0	PASS
n41	30	15	536496	DFT-s-OFDM QPSK	1/37	PASS
n41	30	20	501204	DFT-s-OFDM QPSK	50/0	PASS
n41	30	20	501204	DFT-s-OFDM QPSK	1/0	PASS
n41	30	20	535998	DFT-s-OFDM QPSK	50/0	PASS
n41	30	20	535998	DFT-s-OFDM QPSK	1/50	PASS



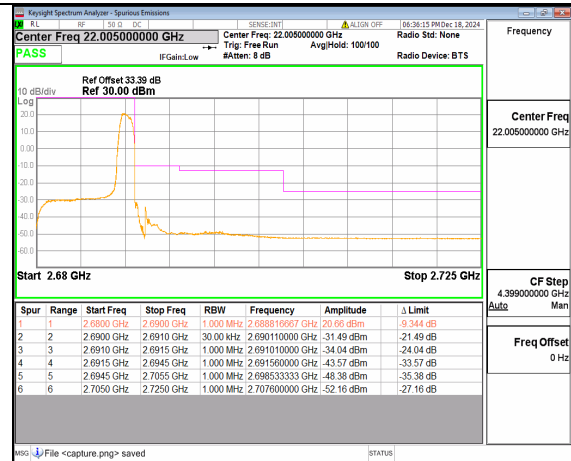
n41 10M DFT-s-OFDM QPSK Outer_Full Low



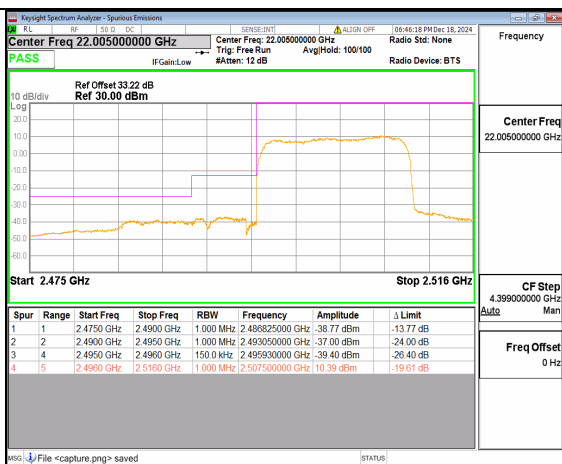
n41 10M DFT-s-OFDM QPSK Edge_1RB_Left Low



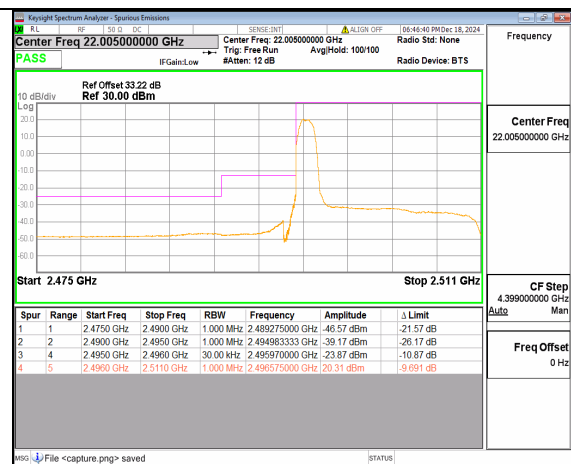
n41 10M DFT-s-OFDM QPSK Outer_Full High



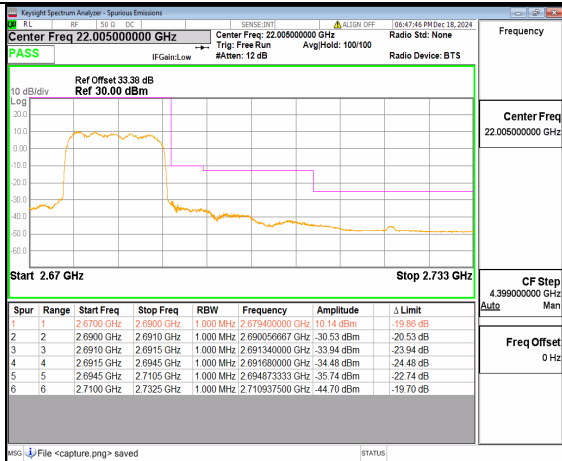
n41 10M DFT-s-OFDM QPSK Edge_1RB_Right High



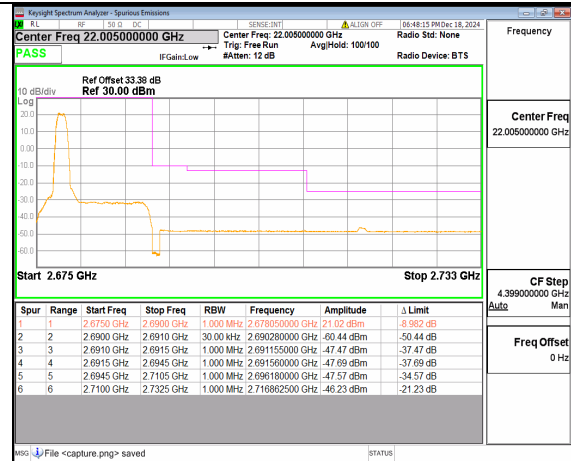
n41 15M DFT-s-OFDM QPSK Outer_Full Low



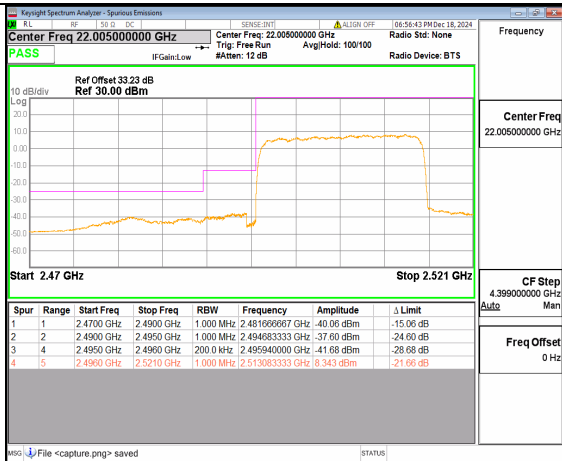
n41 15M DFT-s-OFDM QPSK Edge_1RB_Left Low



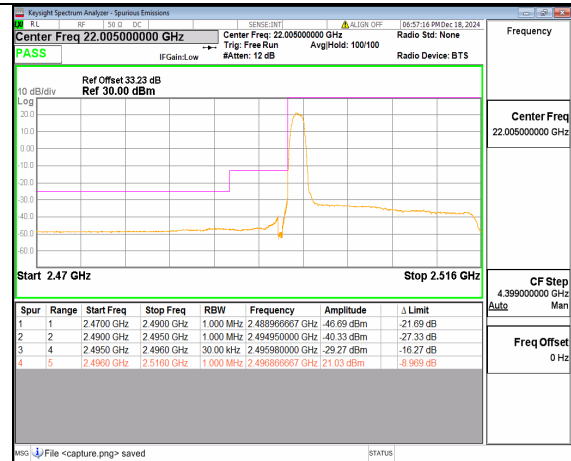
n41 15M DFT-s-OFDM QPSK Outer_Full High



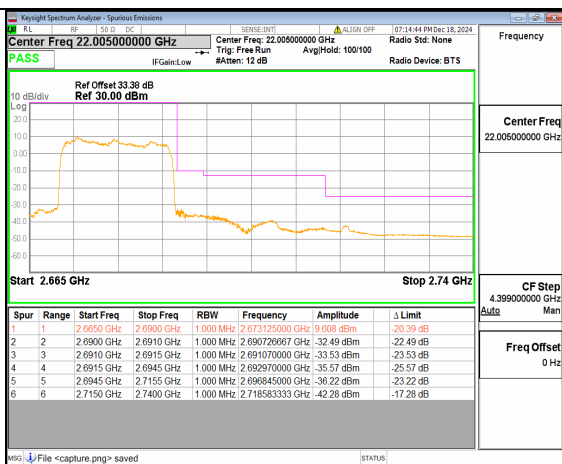
n41 15M DFT-s-OFDM QPSK Edge_1RB_Right High



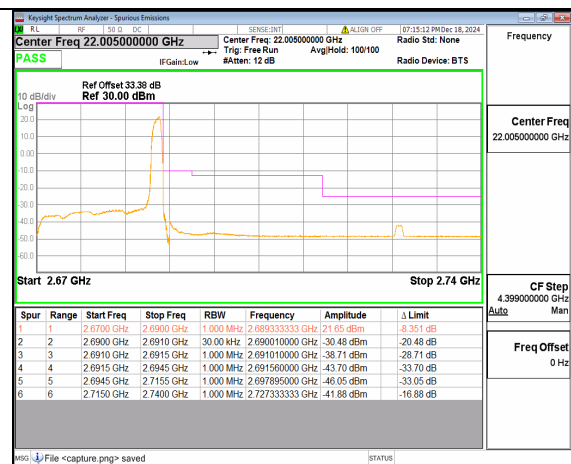
n41 20M DFT-s-OFDM QPSK Outer_Full Low



n41 20M DFT-s-OFDM QPSK Edge_1RB_Left Low



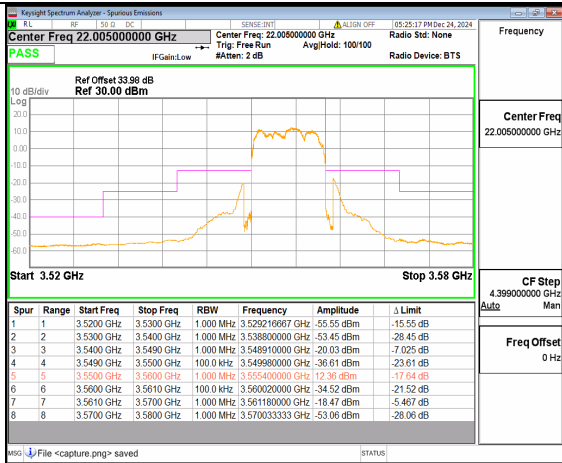
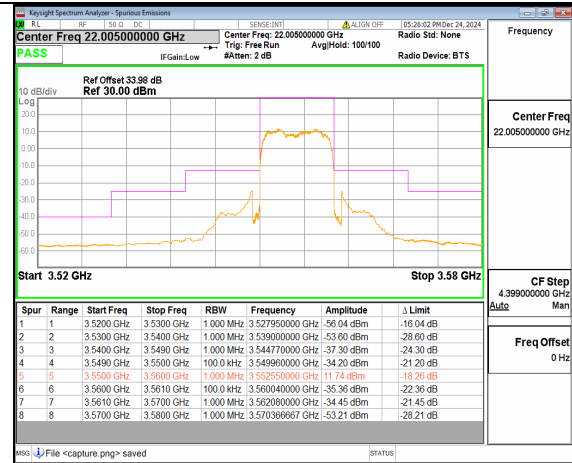
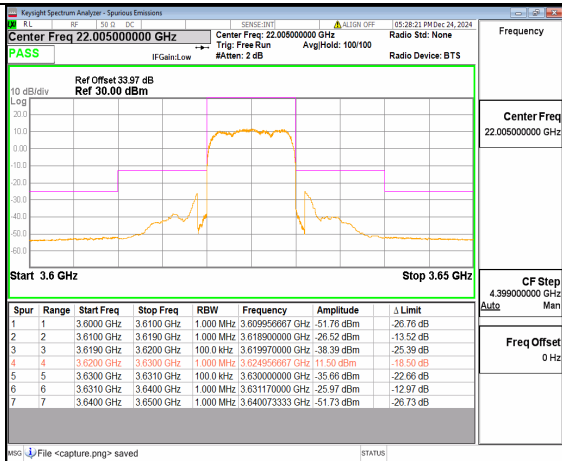
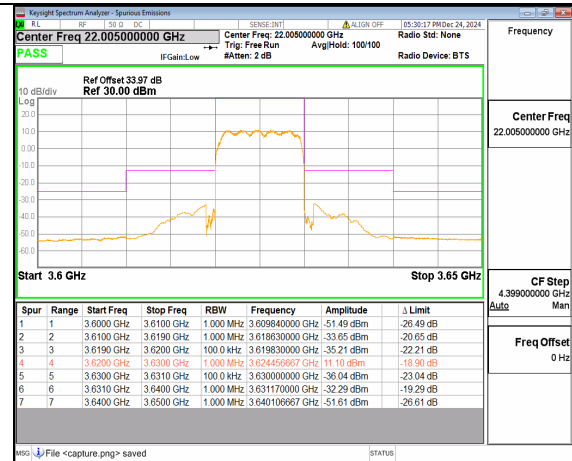
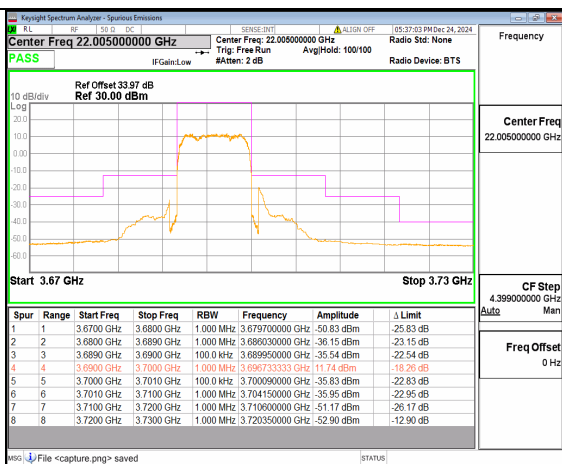
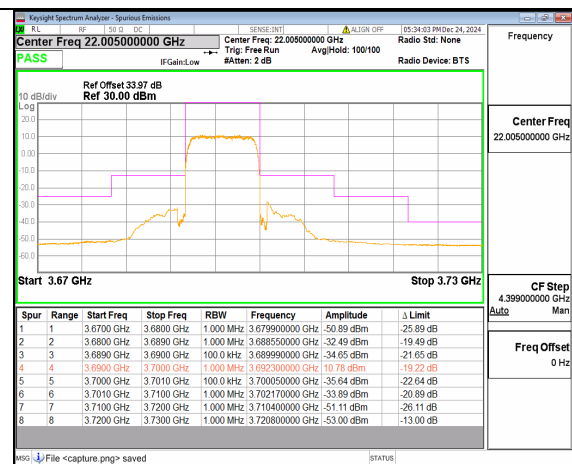
n41 20M DFT-s-OFDM QPSK Outer_Full High

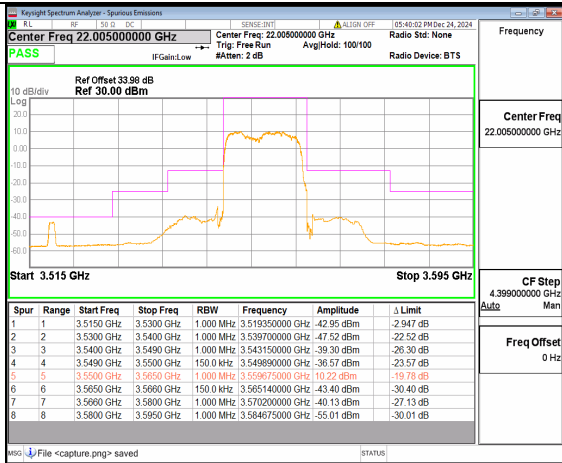
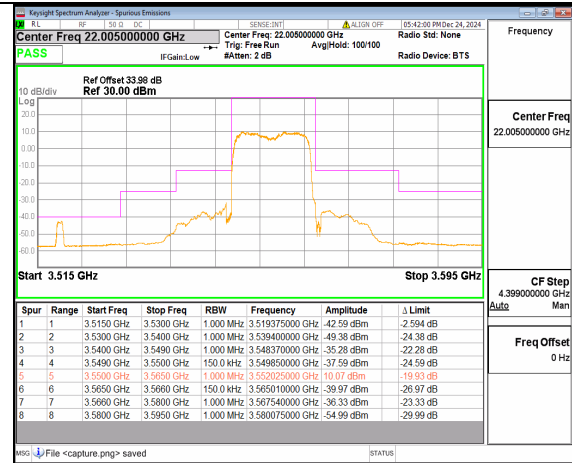
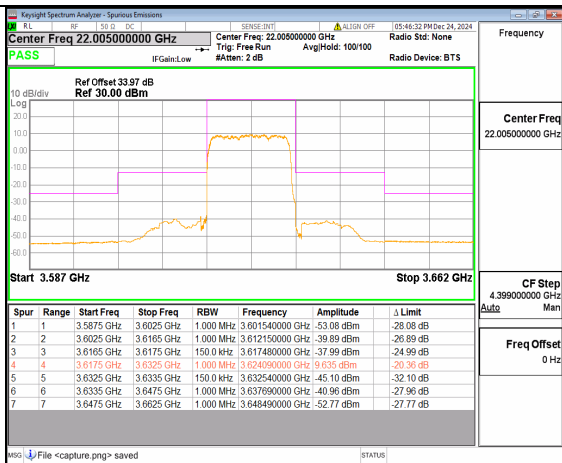
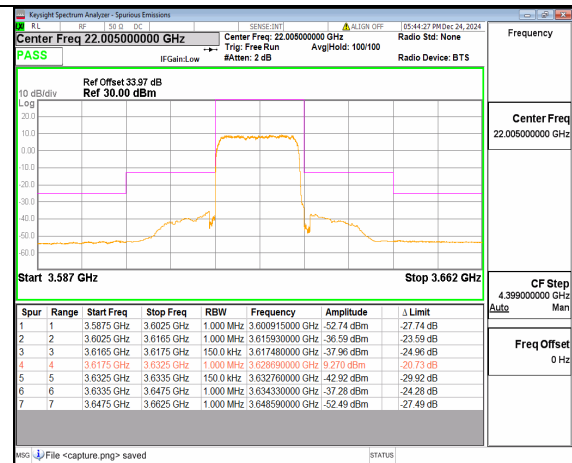
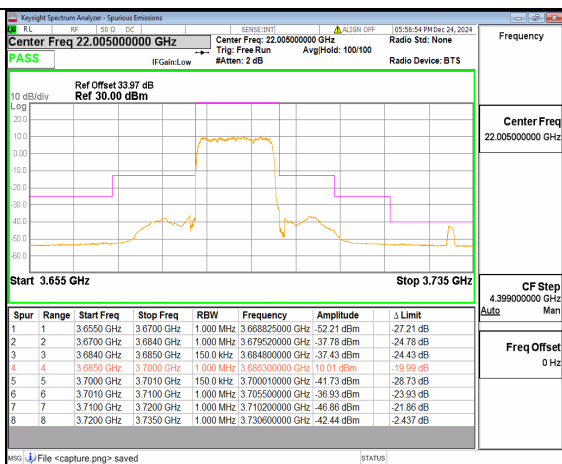
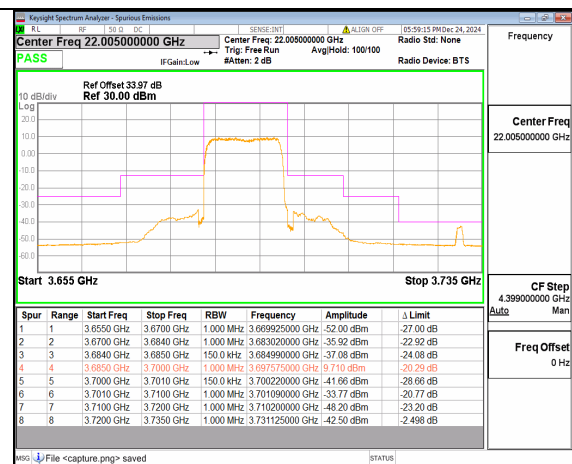


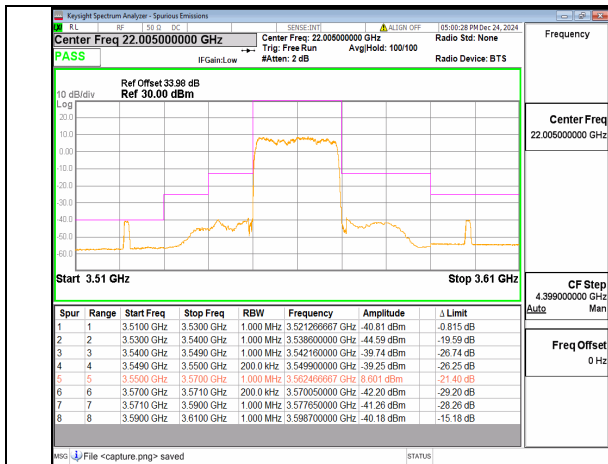
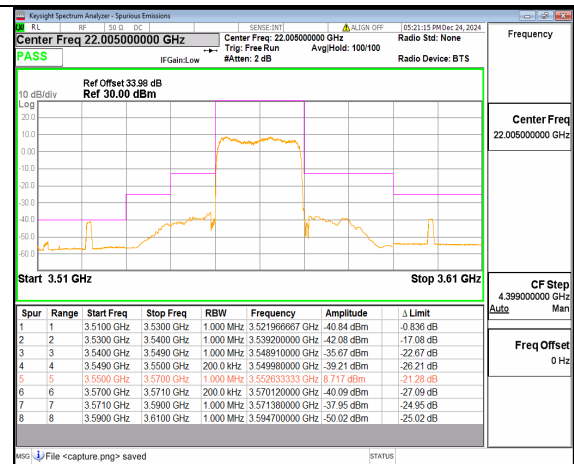
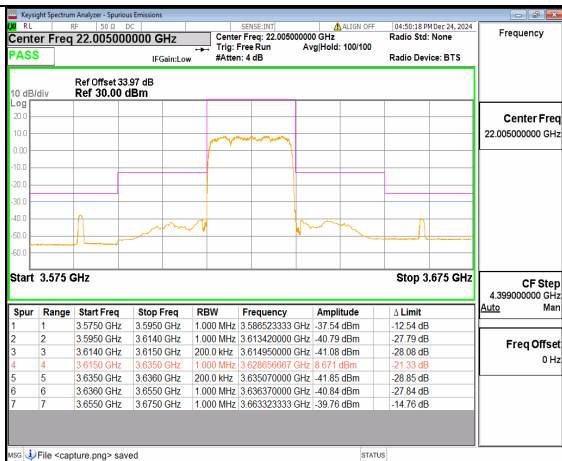
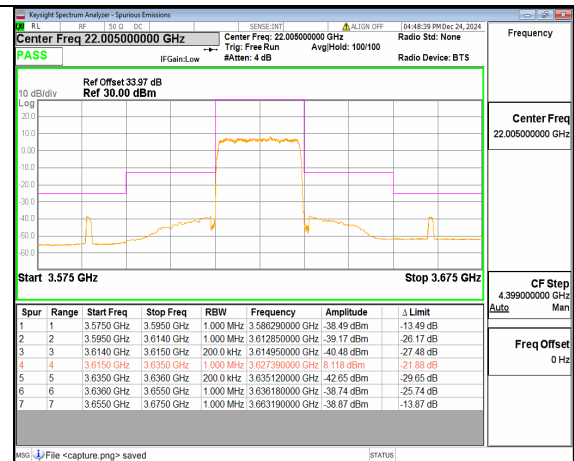
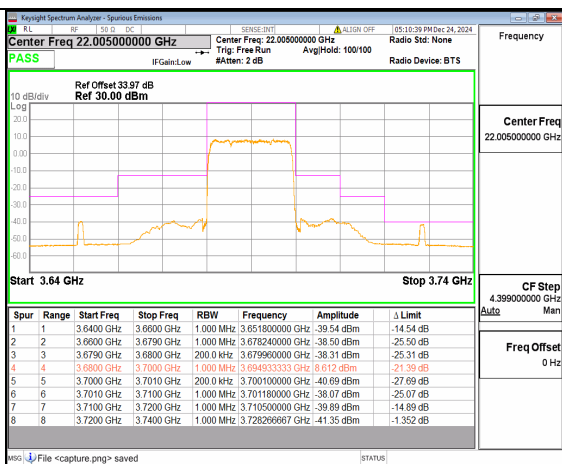
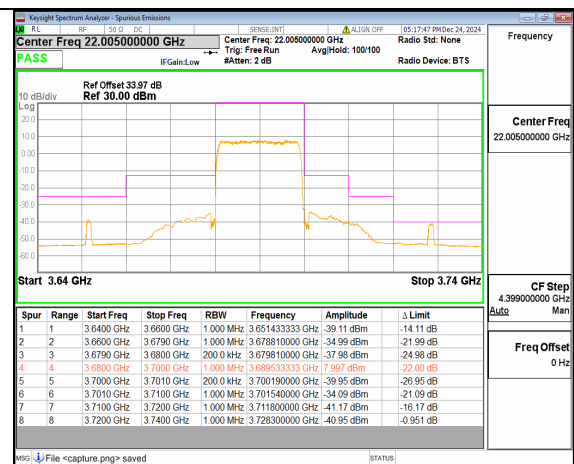
n41 20M DFT-s-OFDM QPSK Edge_1RB_Right High



Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Verdict
n48	30	10	637000	DFT-s-OFDM PI/2 BPSK	24/0	PASS
n48	30	10	637000	DFT-s-OFDM QPSK	24/0	PASS
n48	30	10	641666	DFT-s-OFDM PI/2 BPSK	24/0	PASS
n48	30	10	641666	DFT-s-OFDM QPSK	24/0	PASS
n48	30	10	646332	DFT-s-OFDM PI/2 BPSK	24/0	PASS
n48	30	10	646332	DFT-s-OFDM QPSK	24/0	PASS
n48	30	15	637168	DFT-s-OFDM PI/2 BPSK	36/0	PASS
n48	30	15	637168	DFT-s-OFDM QPSK	36/0	PASS
n48	30	15	641666	DFT-s-OFDM PI/2 BPSK	36/0	PASS
n48	30	15	641666	DFT-s-OFDM QPSK	36/0	PASS
n48	30	15	646166	DFT-s-OFDM PI/2 BPSK	36/0	PASS
n48	30	15	646166	DFT-s-OFDM QPSK	36/0	PASS
n48	30	20	637334	DFT-s-OFDM PI/2 BPSK	50/0	PASS
n48	30	20	637334	DFT-s-OFDM QPSK	50/0	PASS
n48	30	20	641666	DFT-s-OFDM PI/2 BPSK	50/0	PASS
n48	30	20	641666	DFT-s-OFDM QPSK	50/0	PASS
n48	30	20	646000	DFT-s-OFDM PI/2 BPSK	50/0	PASS
n48	30	20	646000	DFT-s-OFDM QPSK	50/0	PASS

n48 10M DFT-s-OFDM BPSK Outer_Full
Lown48 10M DFT-s-OFDM QPSK Outer_Full
Lown48 10M DFT-s-OFDM BPSK Outer_Full
Midn48 10M DFT-s-OFDM QPSK Outer_Full
Midn48 10M DFT-s-OFDM BPSK Outer_Full
Highn48 10M DFT-s-OFDM QPSK Outer_Full
High

n48 15M DFT-s-OFDM BPSK Outer_Full
Lown48 15M DFT-s-OFDM QPSK Outer_Full
Lown48 15M DFT-s-OFDM BPSK Outer_Full
Midn48 15M DFT-s-OFDM QPSK Outer_Full
Midn48 15M DFT-s-OFDM BPSK Outer_Full
Highn48 15M DFT-s-OFDM QPSK Outer_Full
High

n48 20M DFT-s-OFDM BPSK Outer_Full
Lown48 20M DFT-s-OFDM QPSK Outer_Full
Lown48 20M DFT-s-OFDM BPSK Outer_Full
Midn48 20M DFT-s-OFDM QPSK Outer_Full
Midn48 20M DFT-s-OFDM BPSK Outer_Full
Highn48 20M DFT-s-OFDM QPSK Outer_Full
High

Band

SCS

BW

ARFCN

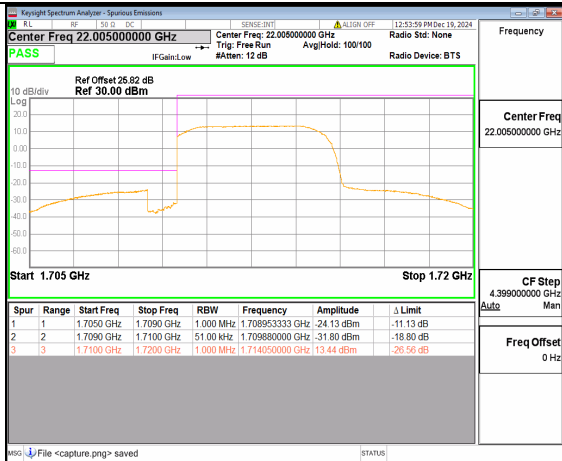
Modulation

RB

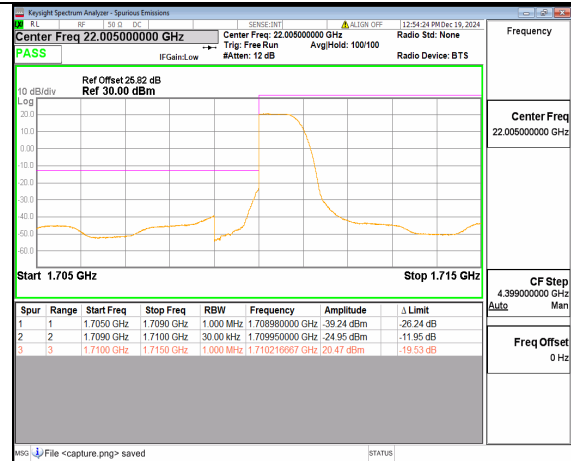
Verdict



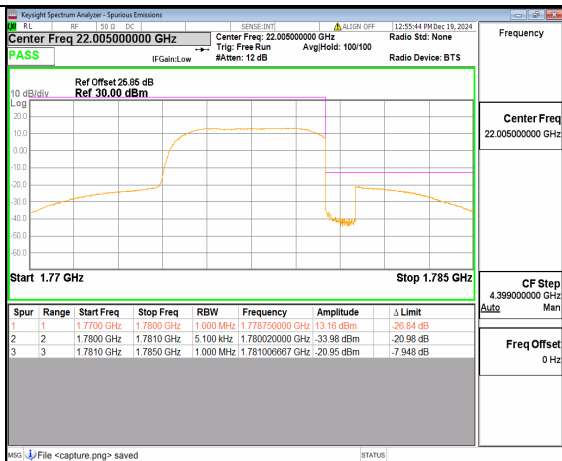
	(kHz)	(MHz)				
n66	15	5	342500	DFT-s-OFDM QPSK	25/0	PASS
n66	15	5	342500	DFT-s-OFDM QPSK	1/0	PASS
n66	15	5	355500	DFT-s-OFDM QPSK	25/0	PASS
n66	15	5	355500	DFT-s-OFDM QPSK	1/24	PASS
n66	15	10	343000	DFT-s-OFDM QPSK	50/0	PASS
n66	15	10	343000	DFT-s-OFDM QPSK	1/0	PASS
n66	15	10	355000	DFT-s-OFDM QPSK	50/0	PASS
n66	15	10	355000	DFT-s-OFDM QPSK	1/51	PASS
n66	15	15	343500	DFT-s-OFDM QPSK	75/0	PASS
n66	15	15	343500	DFT-s-OFDM QPSK	1/0	PASS
n66	15	15	354500	DFT-s-OFDM QPSK	75/0	PASS
n66	15	15	354500	DFT-s-OFDM QPSK	1/78	PASS
n66	15	20	344000	DFT-s-OFDM QPSK	100/0	PASS
n66	15	20	344000	DFT-s-OFDM QPSK	1/0	PASS
n66	15	20	354000	DFT-s-OFDM QPSK	100/0	PASS
n66	15	20	354000	DFT-s-OFDM QPSK	1/105	PASS



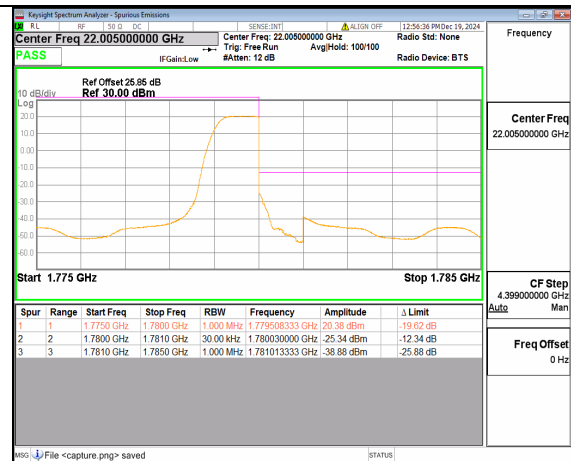
n66 5M DFT-s-OFDM QPSK Outer_Full Low



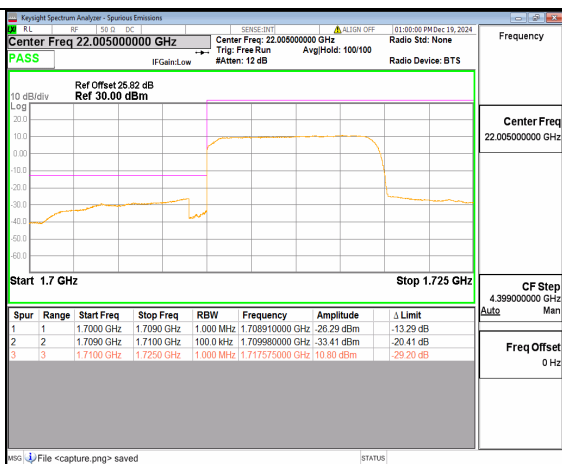
n66 5M DFT-s-OFDM QPSK Edge_1RB_Left Low



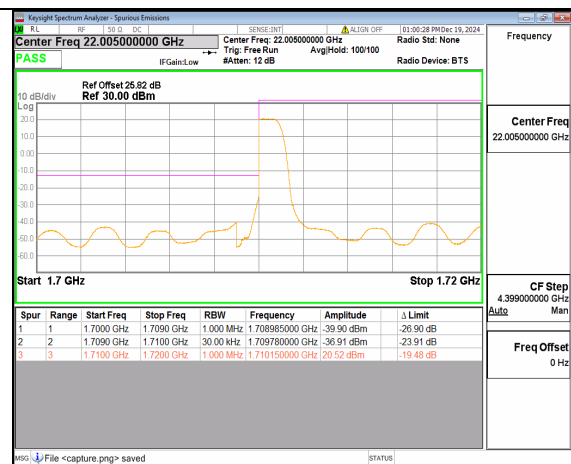
n66 5M DFT-s-OFDM QPSK Outer_Full High



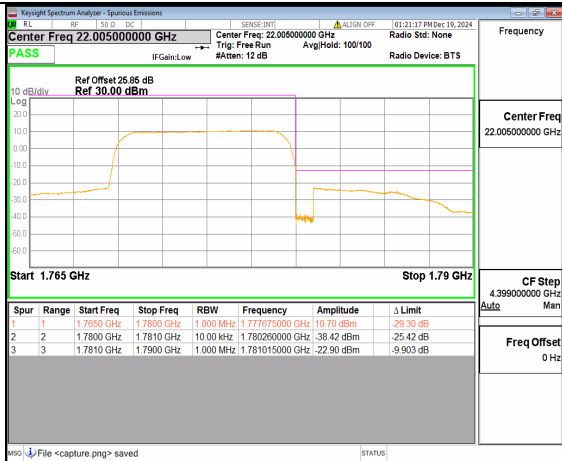
n66 5M DFT-s-OFDM QPSK Edge_1RB_Right High



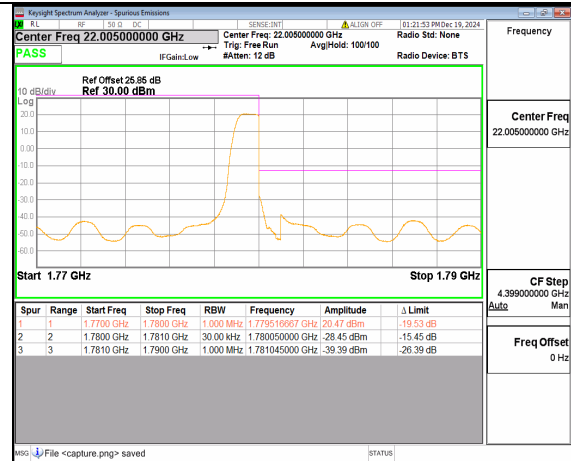
n66 10M DFT-s-OFDM QPSK Outer_Full Low



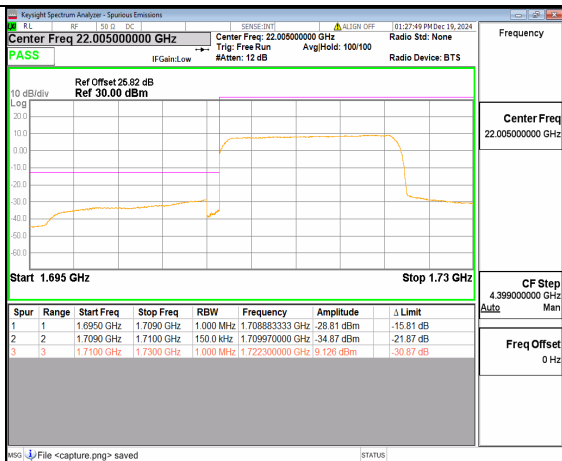
n66 10M DFT-s-OFDM QPSK Edge_1RB_Left Low



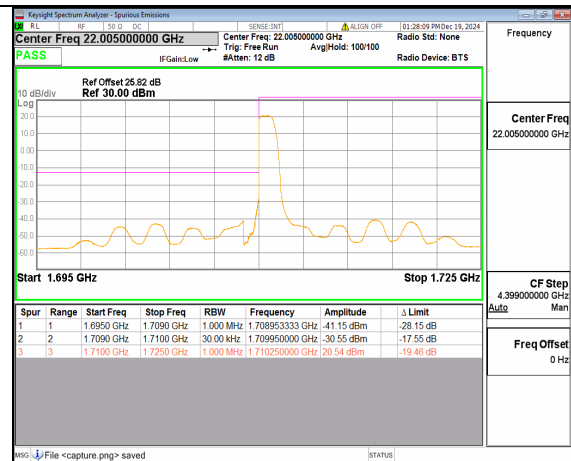
n66 10M DFT-s-OFDM QPSK Outer_Full High



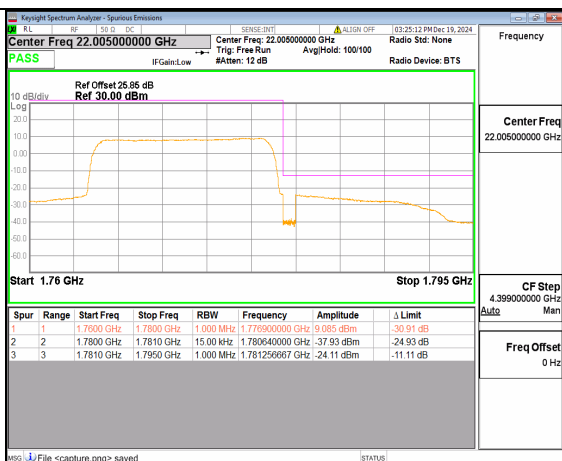
n66 10M DFT-s-OFDM QPSK Edge_1RB_Right High



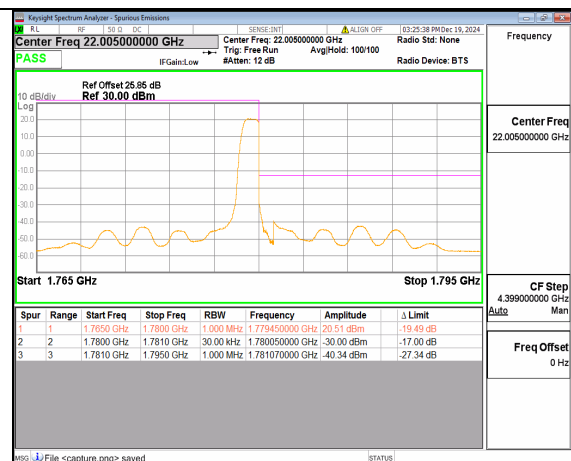
n66 15M DFT-s-OFDM QPSK Outer_Full Low



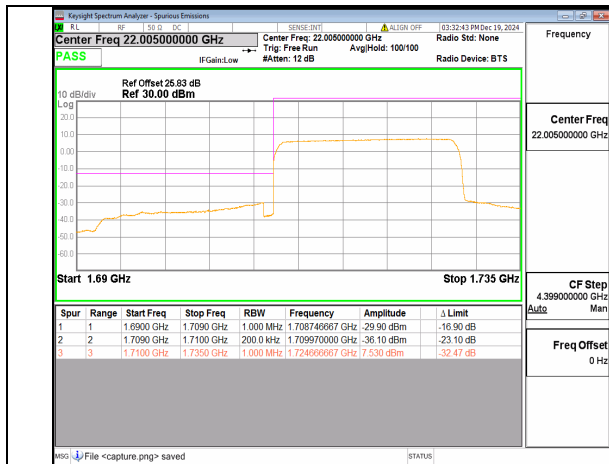
n66 15M DFT-s-OFDM QPSK Edge_1RB_Left Low



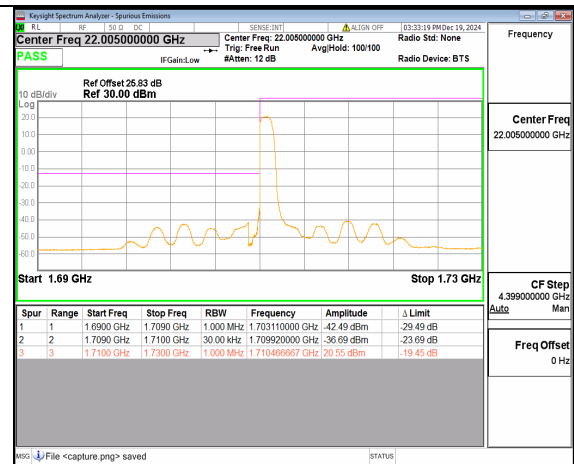
n66 15M DFT-s-OFDM QPSK Outer_Full High



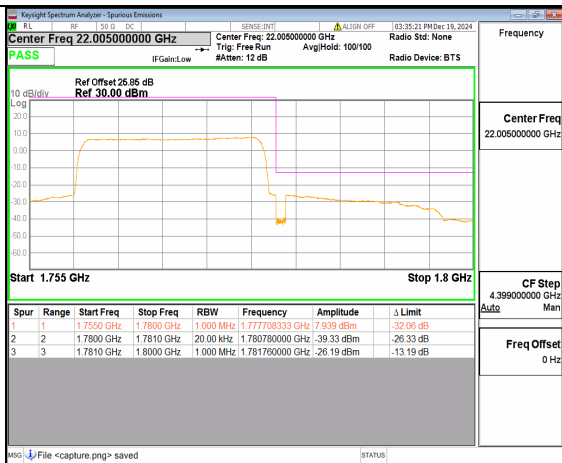
n66 15M DFT-s-OFDM QPSK Edge_1RB_Right High



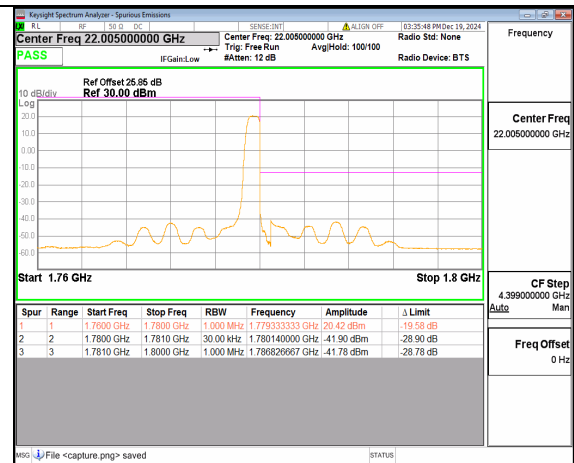
n66 20M DFT-s-OFDM QPSK Outer_Full Low



n66 20M DFT-s-OFDM QPSK Edge_1RB_Left Low



n66 20M DFT-s-OFDM QPSK Outer_Full High

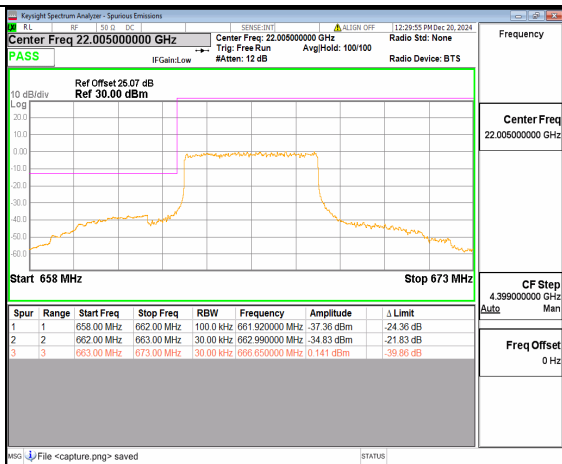


n66 20M DFT-s-OFDM QPSK Edge_1RB_Right High

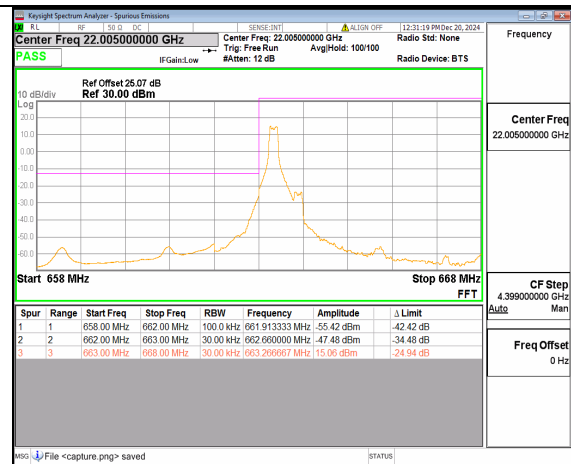
Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Verdict
n71	15	5	133100	DFT-s-OFDM QPSK	25/0	PASS
n71	15	5	133100	DFT-s-OFDM QPSK	1/0	PASS
n71	15	5	139100	DFT-s-OFDM QPSK	25/0	PASS
n71	15	5	139100	DFT-s-OFDM QPSK	1/24	PASS
n71	15	10	133600	DFT-s-OFDM QPSK	50/0	PASS
n71	15	10	133600	DFT-s-OFDM QPSK	1/0	PASS
n71	15	10	138600	DFT-s-OFDM QPSK	50/0	PASS



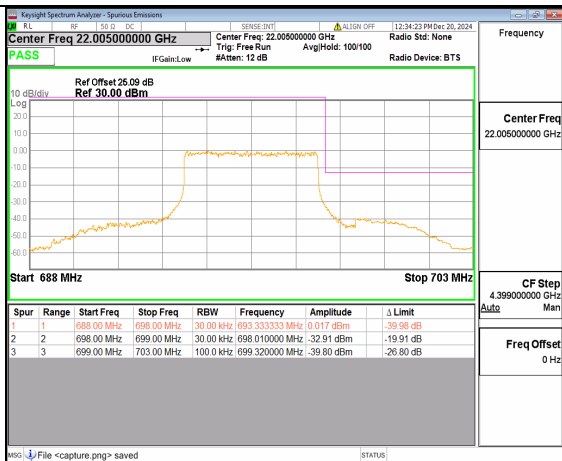
n71	15	10	138600	DFT-s-OFDM QPSK	1/51	PASS
n71	15	15	134100	DFT-s-OFDM QPSK	75/0	PASS
n71	15	15	134100	DFT-s-OFDM QPSK	1/0	PASS
n71	15	15	138100	DFT-s-OFDM QPSK	75/0	PASS
n71	15	15	138100	DFT-s-OFDM QPSK	1/78	PASS
n71	15	20	134600	DFT-s-OFDM QPSK	100/0	PASS
n71	15	20	134600	DFT-s-OFDM QPSK	1/0	PASS
n71	15	20	137600	DFT-s-OFDM QPSK	100/0	PASS
n71	15	20	137600	DFT-s-OFDM QPSK	1/105	PASS



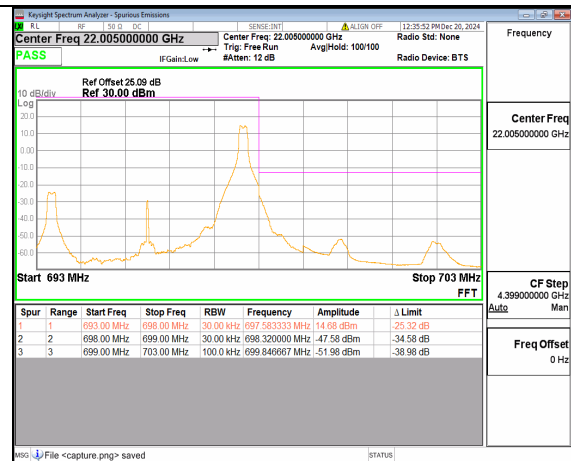
n71 5M DFT-s-OFDM QPSK Outer_Full Low



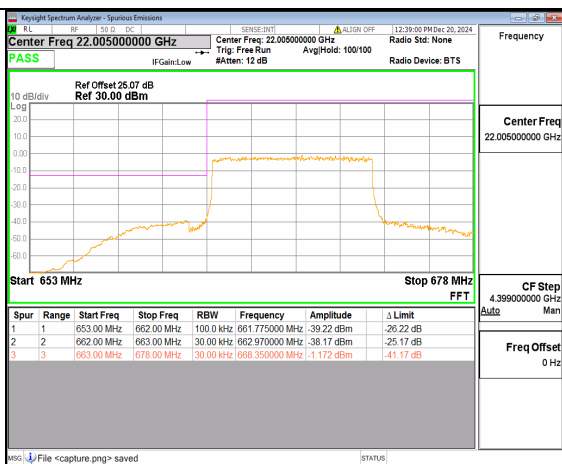
n71 5M DFT-s-OFDM QPSK Edge_1RB_Left Low



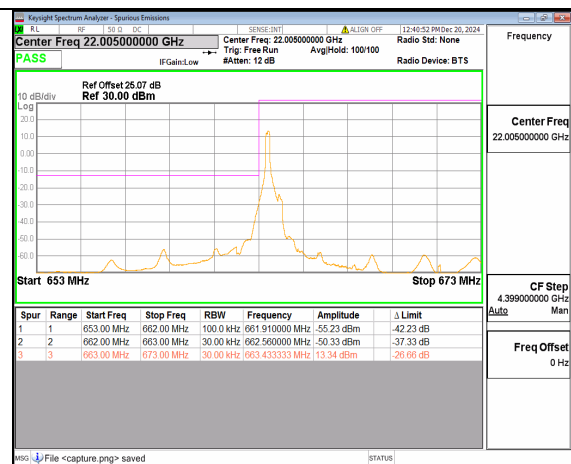
n71 5M DFT-s-OFDM QPSK Outer_Full High



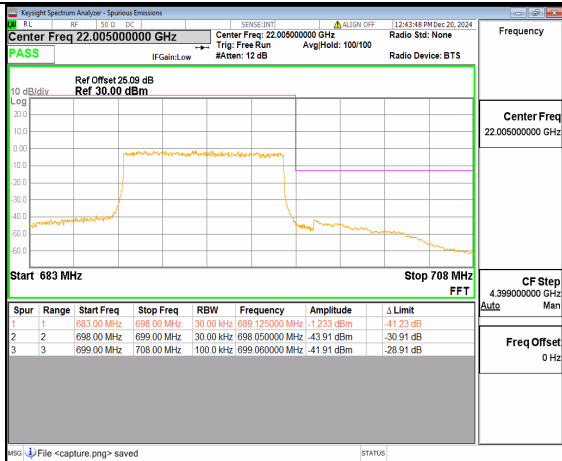
n71 5M DFT-s-OFDM QPSK Edge_1RB_Right High



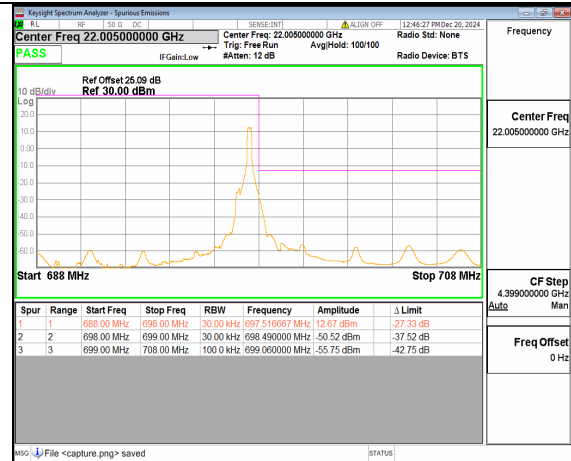
n71 10M DFT-s-OFDM QPSK Outer_Full Low



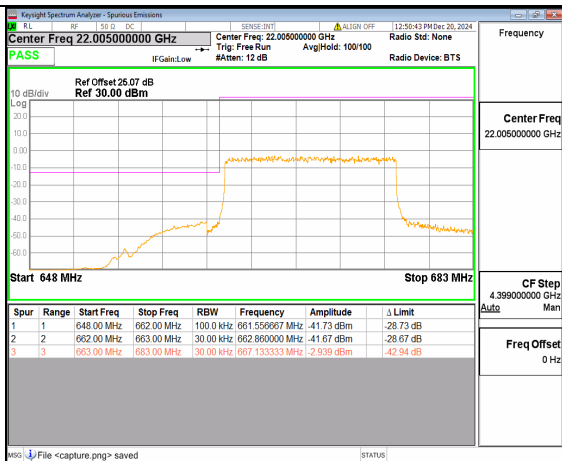
n71 10M DFT-s-OFDM QPSK Edge_1RB_Left Low



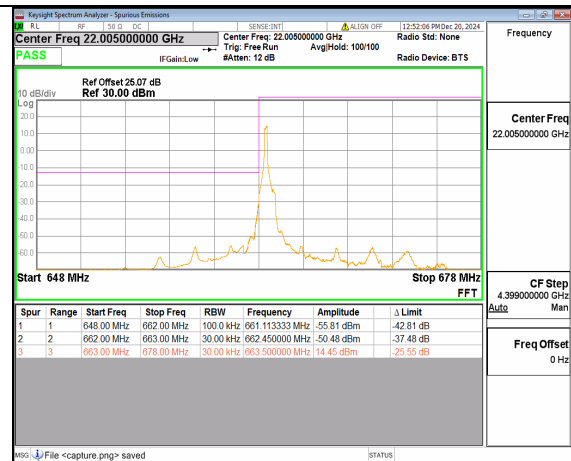
n71 10M DFT-s-OFDM QPSK Outer_Full High



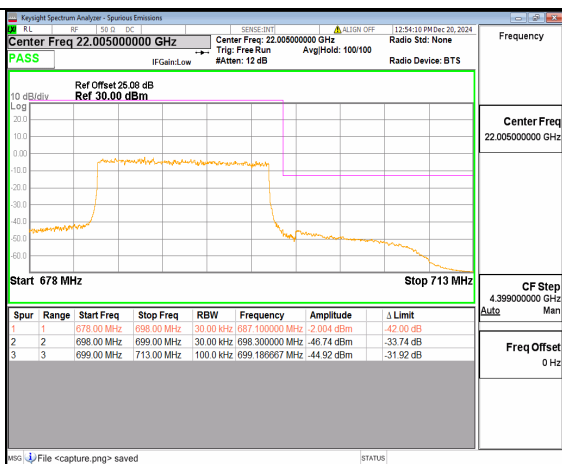
n71 10M DFT-s-OFDM QPSK Edge_1RB_Right High



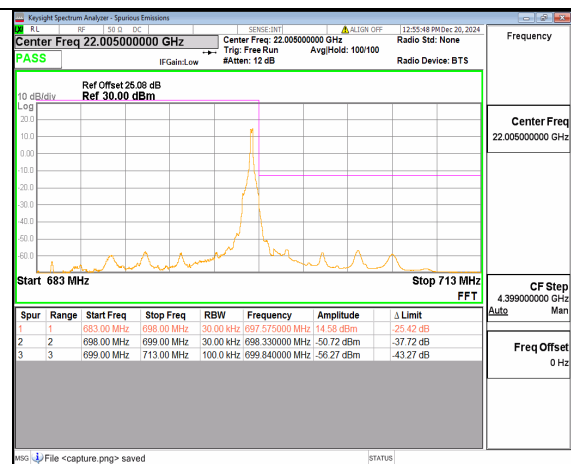
n71 15M DFT-s-OFDM QPSK Outer_Full Low



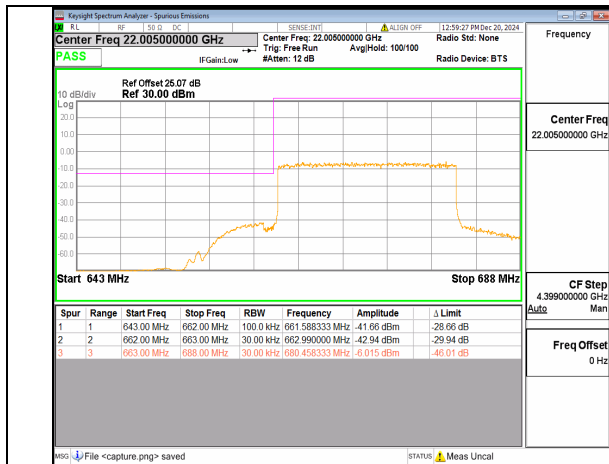
n71 15M DFT-s-OFDM QPSK Edge_1RB_Left Low



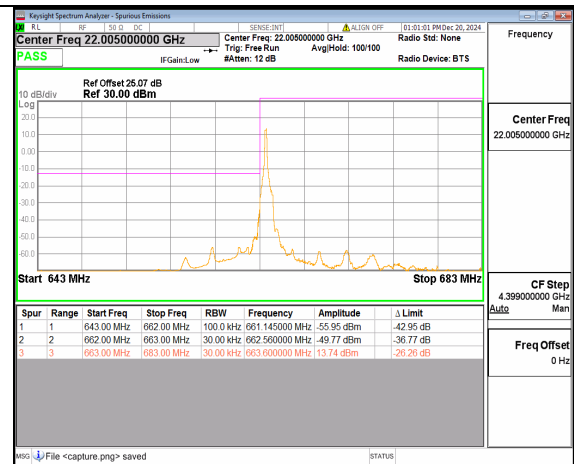
n71 15M DFT-s-OFDM QPSK Outer_Full High



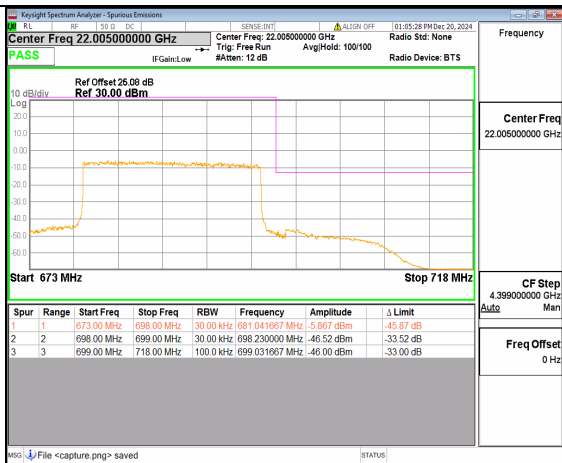
n71 15M DFT-s-OFDM QPSK Edge_1RB_Right High



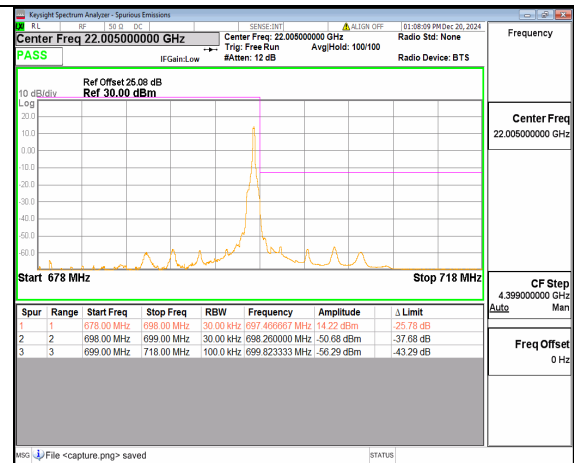
n71 20M DFT-s-OFDM QPSK Outer_Full Low



n71 20M DFT-s-OFDM QPSK Edge_1RB_Left Low



n71 20M DFT-s-OFDM QPSK Outer_Full High

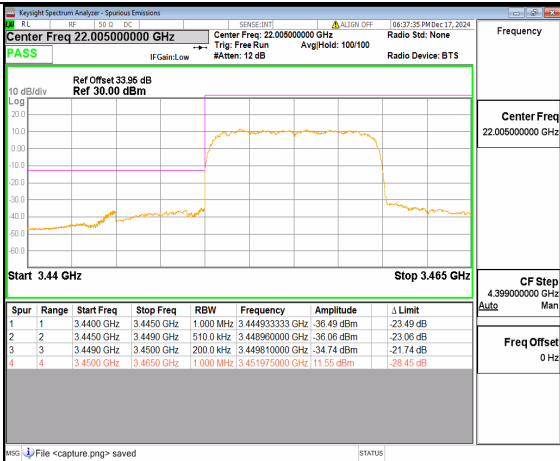


n71 20M DFT-s-OFDM QPSK Edge_1RB_Right High

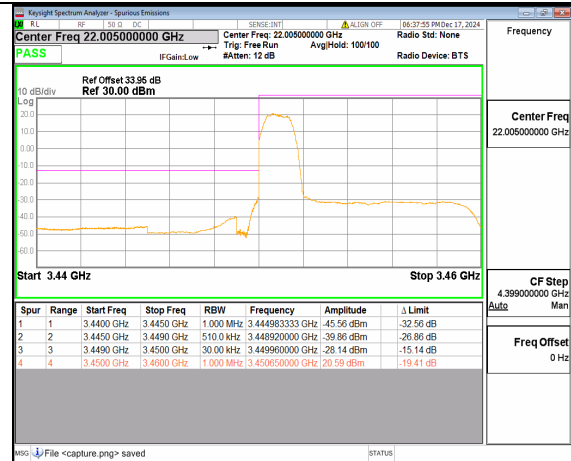
Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Verdict
n77(3450-3550MHz)	30	10	630334	DFT-s-OFDM QPSK	24/0	PASS
n77(3450-3550MHz)	30	10	630334	DFT-s-OFDM QPSK	1/0	PASS
n77(3450-3550MHz)	30	10	636332	DFT-s-OFDM QPSK	24/0	PASS
n77(3450-3550MHz)	30	10	636332	DFT-s-OFDM QPSK	1/23	PASS
n77(3450-3550MHz)	30	15	630500	DFT-s-OFDM QPSK	36/0	PASS
n77(3450-3550MHz)	30	15	630500	DFT-s-OFDM QPSK	1/0	PASS
n77(3450-3550MHz)	30	15	636166	DFT-s-OFDM QPSK	36/0	PASS



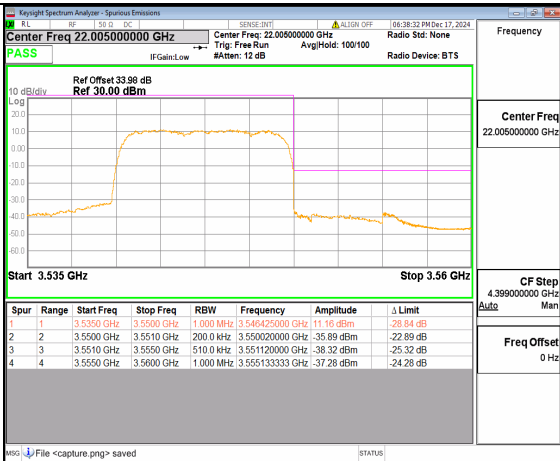
n77(3450-3550MHz)	30	15	636166	DFT-s-OFDM QPSK	1/37	PASS
n77(3450-3550MHz)	30	20	630668	DFT-s-OFDM QPSK	50/0	PASS
n77(3450-3550MHz)	30	20	630668	DFT-s-OFDM QPSK	1/0	PASS
n77(3450-3550MHz)	30	20	636000	DFT-s-OFDM QPSK	50/0	PASS
n77(3450-3550MHz)	30	20	636000	DFT-s-OFDM QPSK	1/50	PASS
n77(3700-3980MHz)	30	10	647000	DFT-s-OFDM QPSK	24/0	PASS
n77(3700-3980MHz)	30	10	647000	DFT-s-OFDM QPSK	1/0	PASS
n77(3700-3980MHz)	30	10	665000	DFT-s-OFDM QPSK	24/0	PASS
n77(3700-3980MHz)	30	10	665000	DFT-s-OFDM QPSK	1/23	PASS
n77(3700-3980MHz)	30	15	647168	DFT-s-OFDM QPSK	36/0	PASS
n77(3700-3980MHz)	30	15	647168	DFT-s-OFDM QPSK	1/0	PASS
n77(3700-3980MHz)	30	15	664832	DFT-s-OFDM QPSK	36/0	PASS
n77(3700-3980MHz)	30	15	664832	DFT-s-OFDM QPSK	1/37	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM QPSK	50/0	PASS
n77(3700-3980MHz)	30	20	647334	DFT-s-OFDM QPSK	1/0	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM QPSK	50/0	PASS
n77(3700-3980MHz)	30	20	664666	DFT-s-OFDM QPSK	1/50	PASS



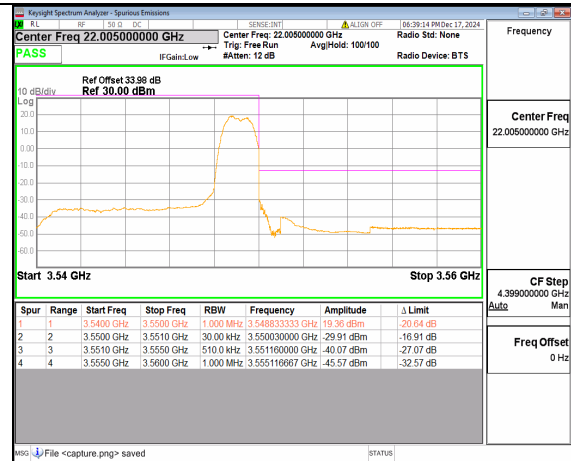
n77(3450-3550MHz) 10M DFT-s-OFDM
QPSK Outer_Full Low



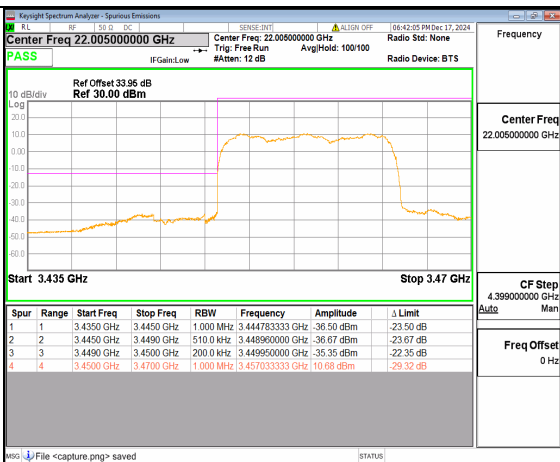
n77(3450-3550MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Left Low



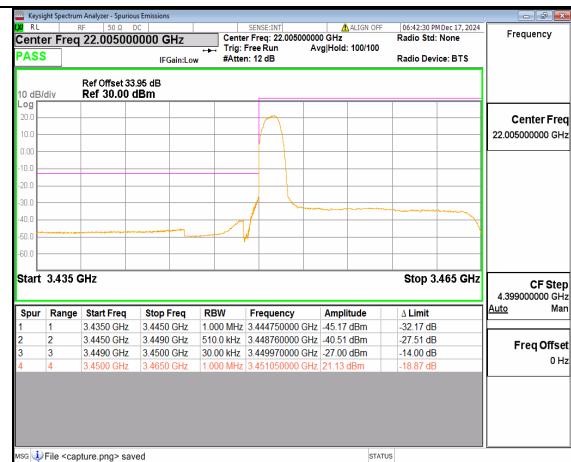
n77(3450-3550MHz) 10M DFT-s-OFDM
QPSK Outer_Full High



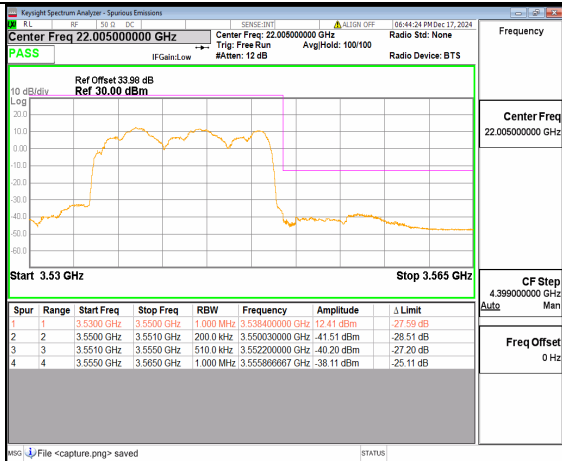
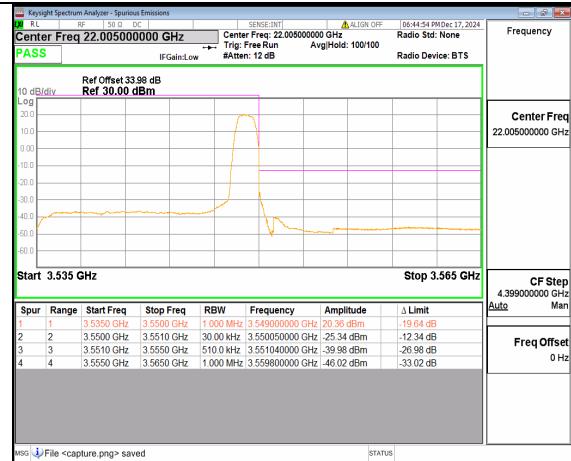
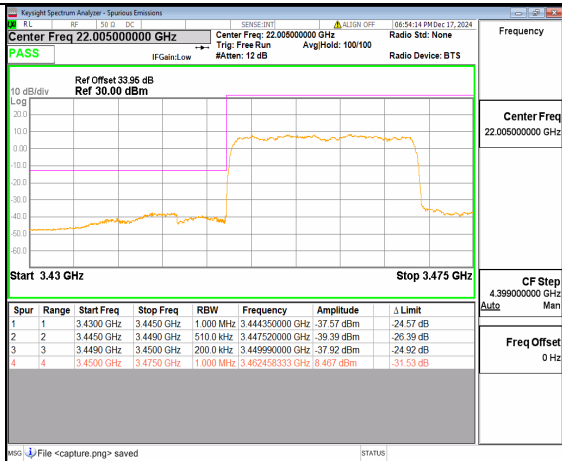
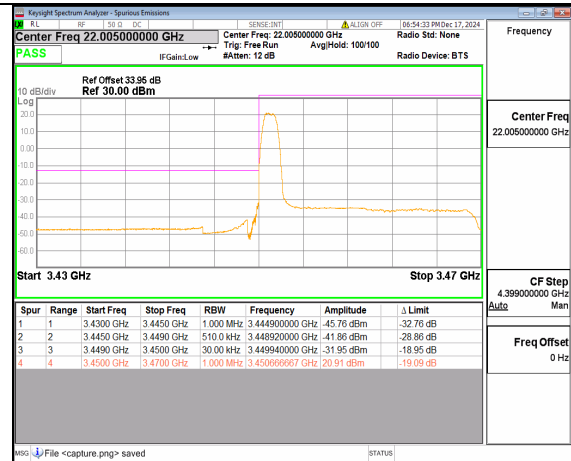
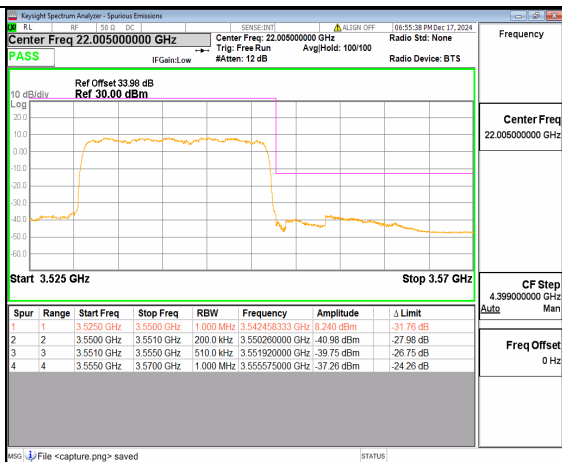
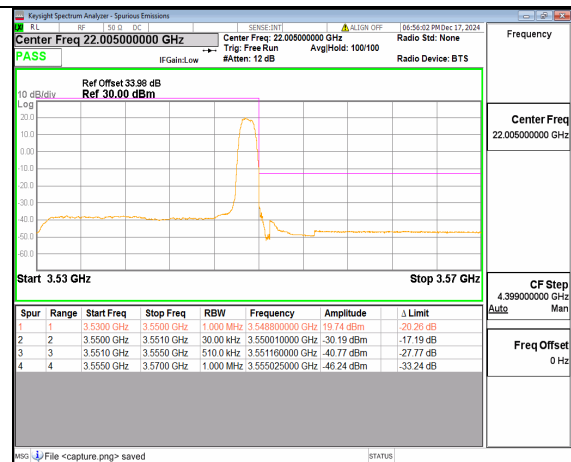
n77(3450-3550MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Right High

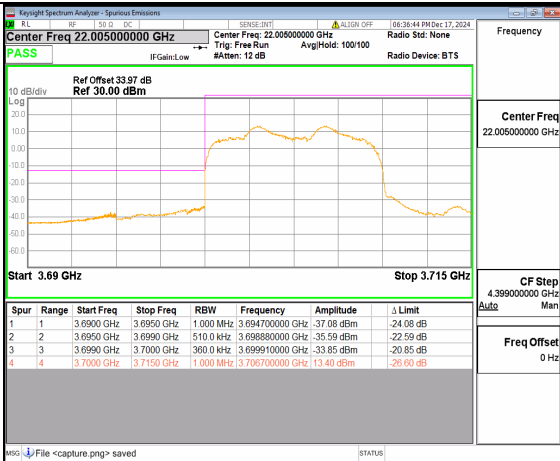
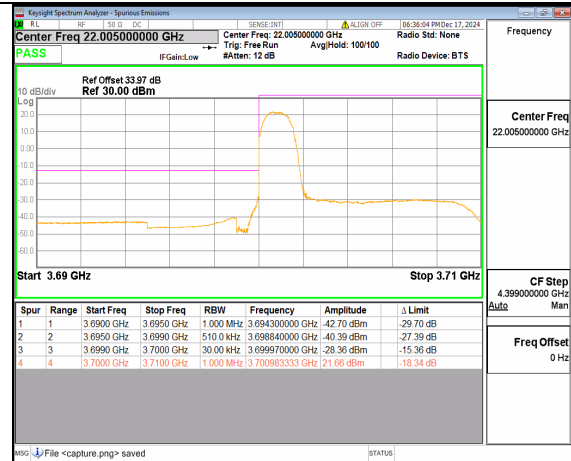
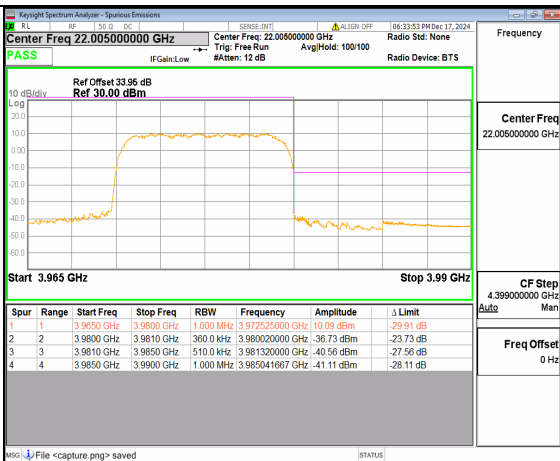
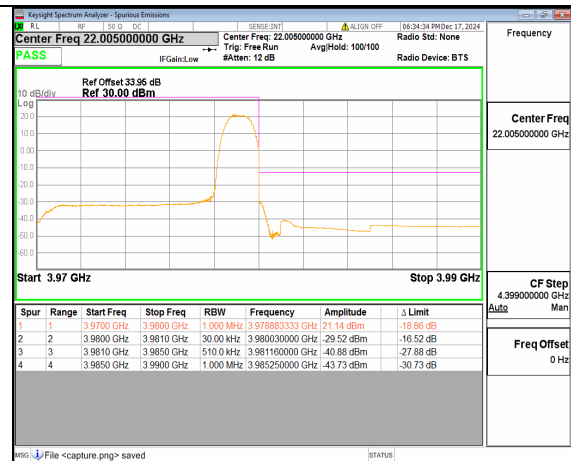
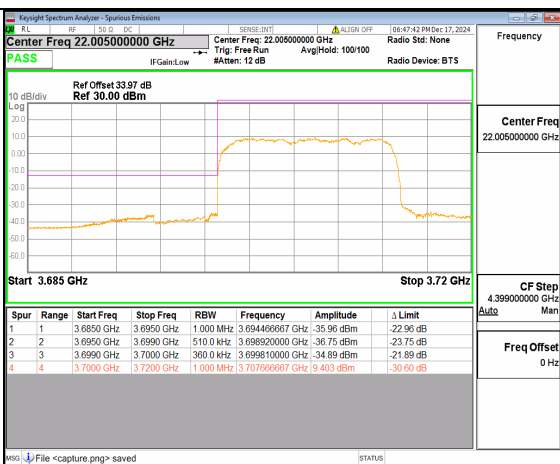
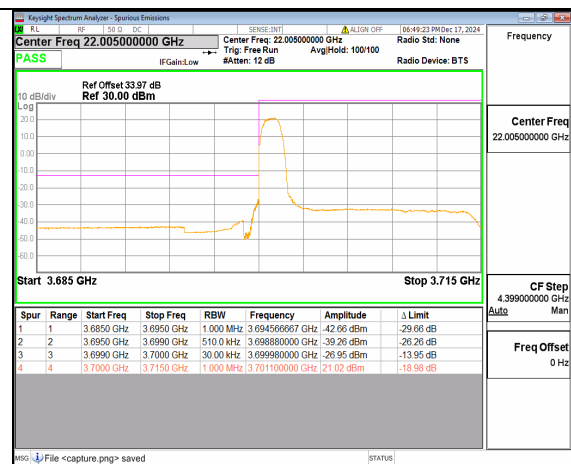


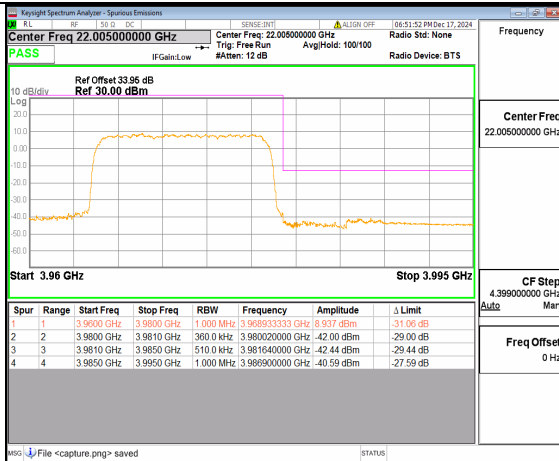
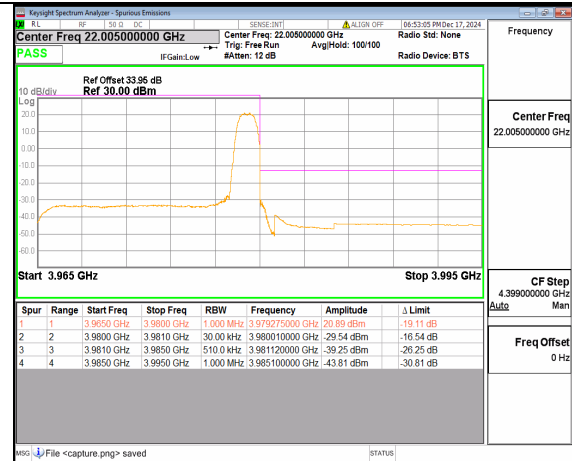
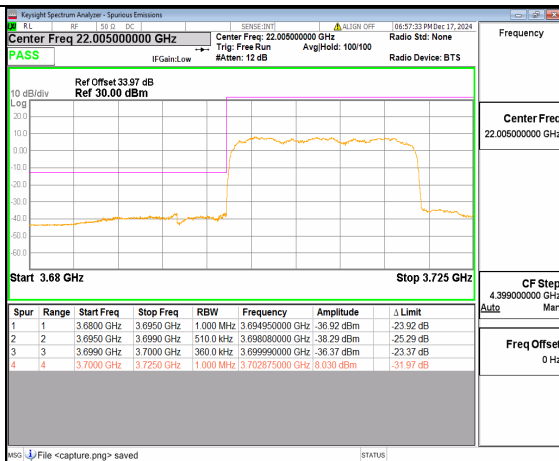
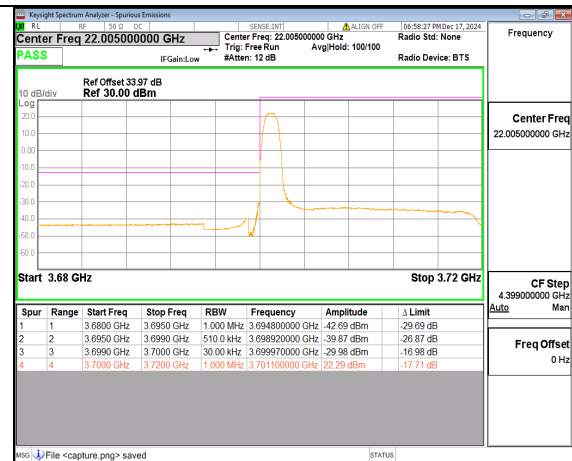
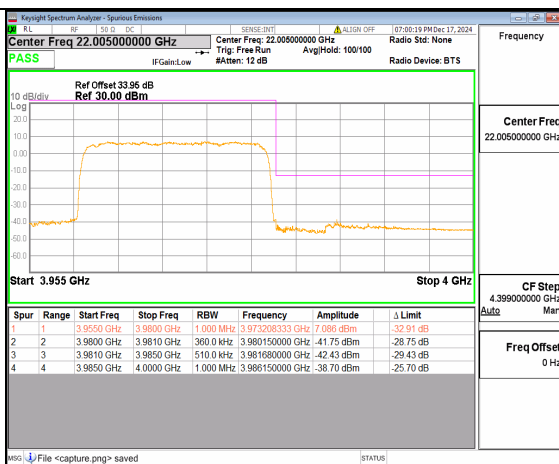
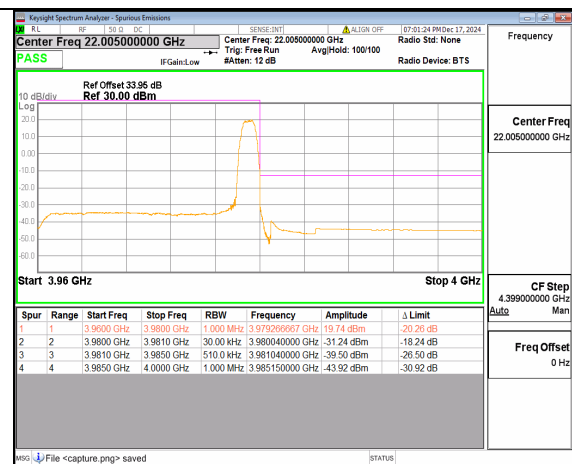
n77(3450-3550MHz) 15M DFT-s-OFDM
QPSK Outer_Full Low



n77(3450-3550MHz) 15M DFT-s-OFDM
QPSK Edge_1RB_Left Low

n77(3450-3550MHz) 15M DFT-s-OFDM
QPSK Outer_Full Highn77(3450-3550MHz) 15M DFT-s-OFDM
QPSK Edge_1RB_Right Highn77(3450-3550MHz) 20M DFT-s-OFDM
QPSK Outer_Full Lown77(3450-3550MHz) 20M DFT-s-OFDM
QPSK Edge_1RB_Left Lown77(3450-3550MHz) 20M DFT-s-OFDM
QPSK Outer_Full Highn77(3450-3550MHz) 20M DFT-s-OFDM
QPSK Edge_1RB_Right High

n77(3700-3980MHz) 10M DFT-s-OFDM
QPSK Outer_Full Lown77(3700-3980MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Left Lown77(3700-3980MHz) 10M DFT-s-OFDM
QPSK Outer_Full Highn77(3700-3980MHz) 10M DFT-s-OFDM
QPSK Edge_1RB_Right Highn77(3700-3980MHz) 15M DFT-s-OFDM
QPSK Outer_Full Lown77(3700-3980MHz) 15M DFT-s-OFDM
QPSK Edge_1RB_Left Low

n77(3700-3980MHz) 15M DFT-s-OFDM
QPSK Outer_Full Highn77(3700-3980MHz) 15M DFT-s-OFDM
QPSK Edge_1RB_Right Highn77(3700-3980MHz) 20M DFT-s-OFDM
QPSK Outer_Full Lown77(3700-3980MHz) 20M DFT-s-OFDM
QPSK Edge_1RB_Left Lown77(3700-3980MHz) 20M DFT-s-OFDM
QPSK Outer_Full Highn77(3700-3980MHz) 20M DFT-s-OFDM
QPSK Edge_1RB_Right High

2.8. Radiated Spurious Emissions

2.8.1.Requirement

According to FCC section 2.1051, section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

According to FCC section 24.238(a) for n2, n25, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Additional to FCC section 22.917(a) for n5, n26, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

According to FCC section 27.53(m)(4) for n7, n41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

According to FCC section 27.53(g) for n12, n71, for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

According to FCC section 90.543(f) for n14, on any frequency outside of the frequency ranges covered by the ACP tables in this section, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10 \log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.

According to FCC section 27.53 for n30, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log(P)$ dB. This calculated to be -40dBm.

According to FCC section 96.41(e) for n48, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

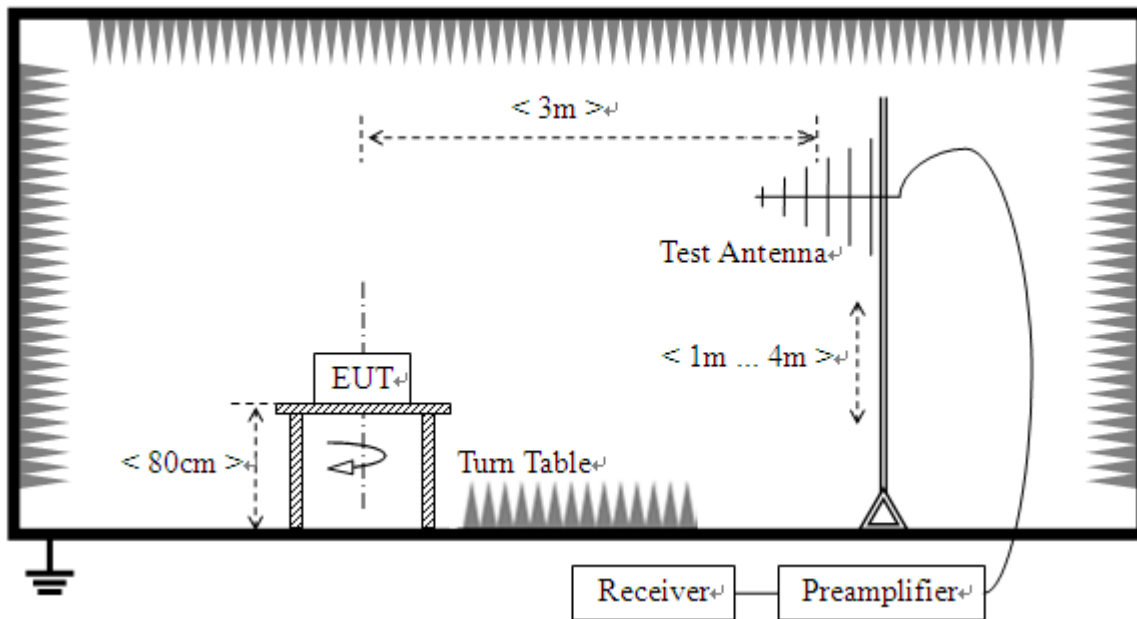
According to FCC section 27.53(h) for n66, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(l)(2) for n77, n78, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not

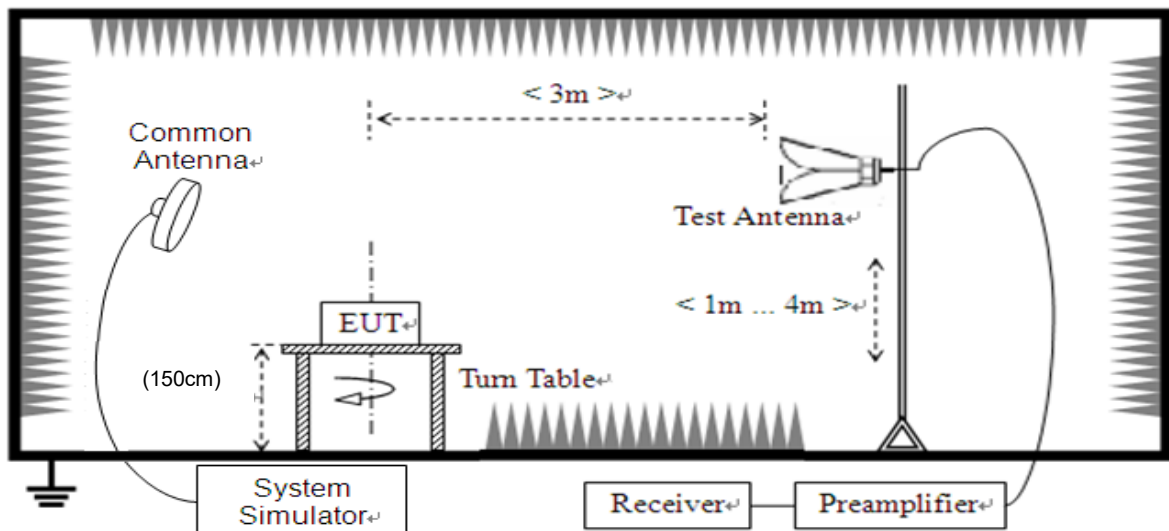
exceed -13 dBm/MHz.

According to FCC section 27.53(n)(2) for n77, n78, for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

2.8.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)



The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: When doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

2.8.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

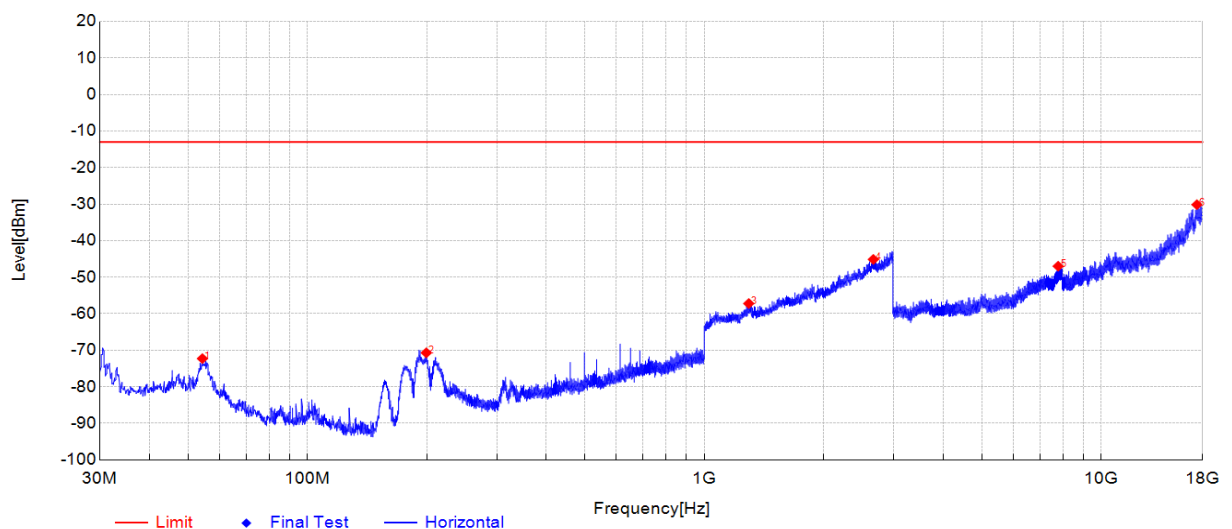
A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

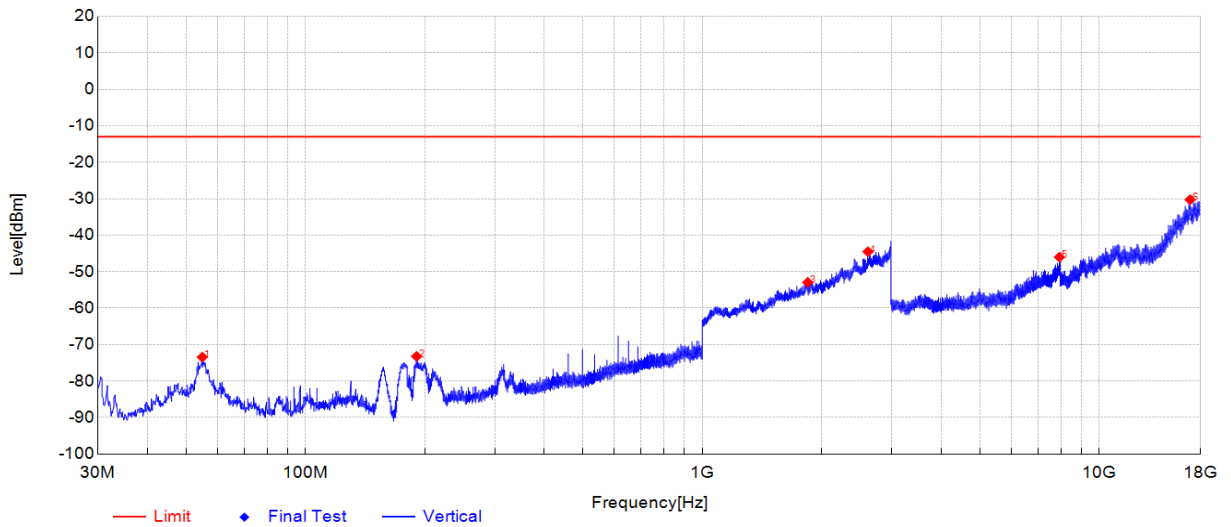
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band; only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.



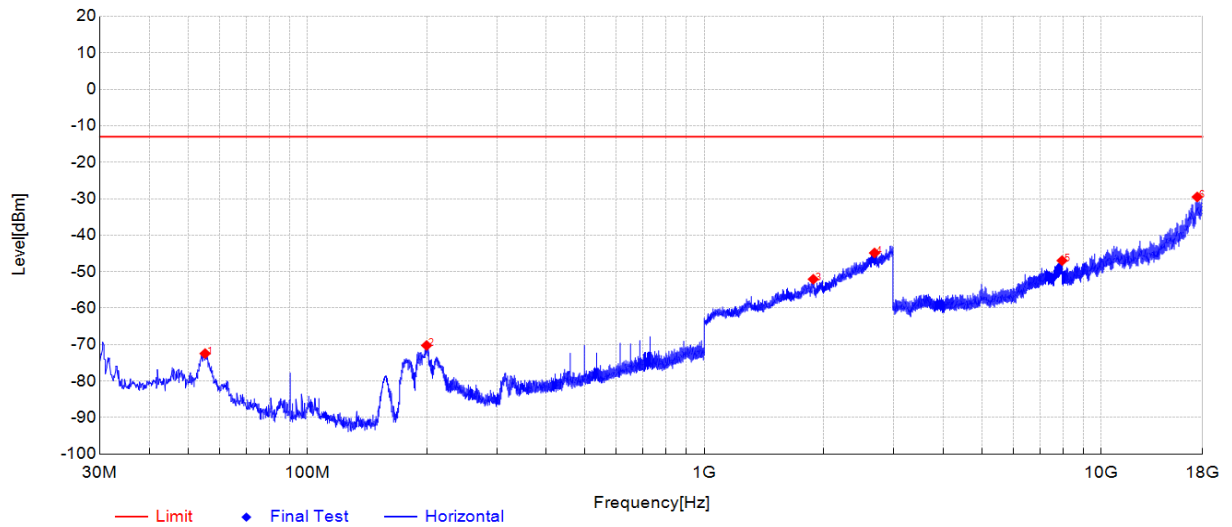
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	54.3712	-56.78	-72.29	-15.5	-13.0	59.3	Horizontal	PK	360	PASS
2	199.265	-52.76	-70.71	-18.0	-13.0	57.7	Horizontal	PK	60	PASS
3	1294	-56.60	-57.21	-0.6	-13.0	44.2	Horizontal	PK	140	PASS
4	2665.5	-56.94	-45.15	11.8	-13.0	32.2	Horizontal	PK	220	PASS
5	7786.5558	-59.45	-47.00	12.5	-13.0	34.0	Horizontal	PK	20	PASS
6	17413.5754	-66.24	-30.17	36.1	-13.0	17.2	Horizontal	PK	40	PASS

N2 370500 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G H



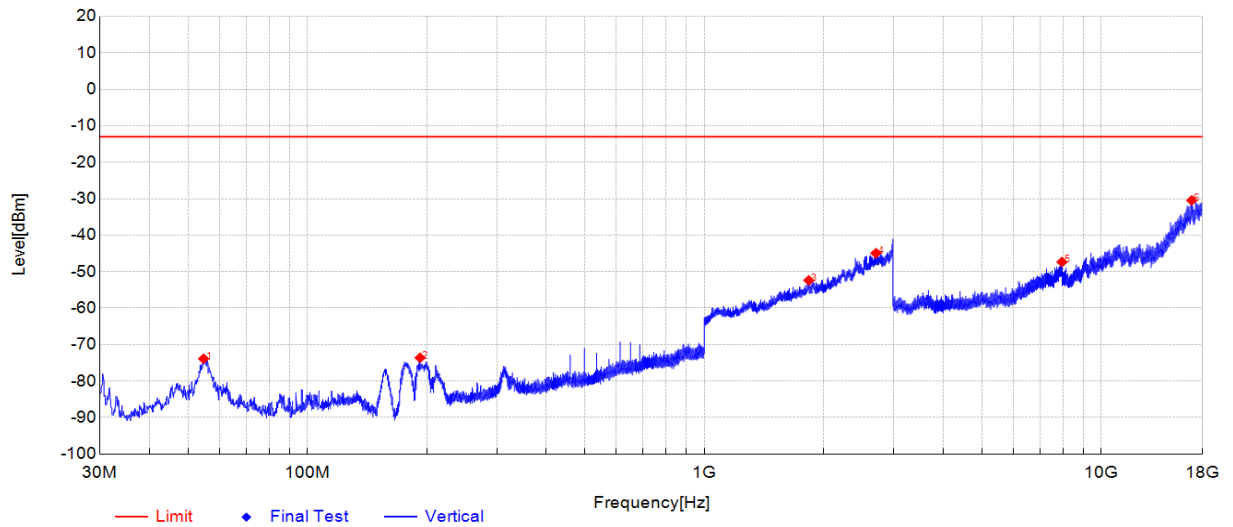
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	54.9775	-56.46	-73.44	-17.0	-13.0	60.4	Vertical	PK	20	PASS
2	190.6562	-51.16	-73.23	-22.1	-13.0	60.2	Vertical	PK	20	PASS
3	1843.5	-57.43	-52.94	4.5	-13.0	39.9	Vertical	PK	320	PASS
4	2613.5	-55.20	-44.52	10.7	-13.0	31.5	Vertical	PK	100	PASS
5	7935.1542	-58.69	-46.03	12.7	-13.0	33.0	Vertical	PK	120	PASS
6	16938.2481	-65.74	-30.29	35.5	-13.0	17.3	Vertical	PK	80	PASS

N2 370500 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G V



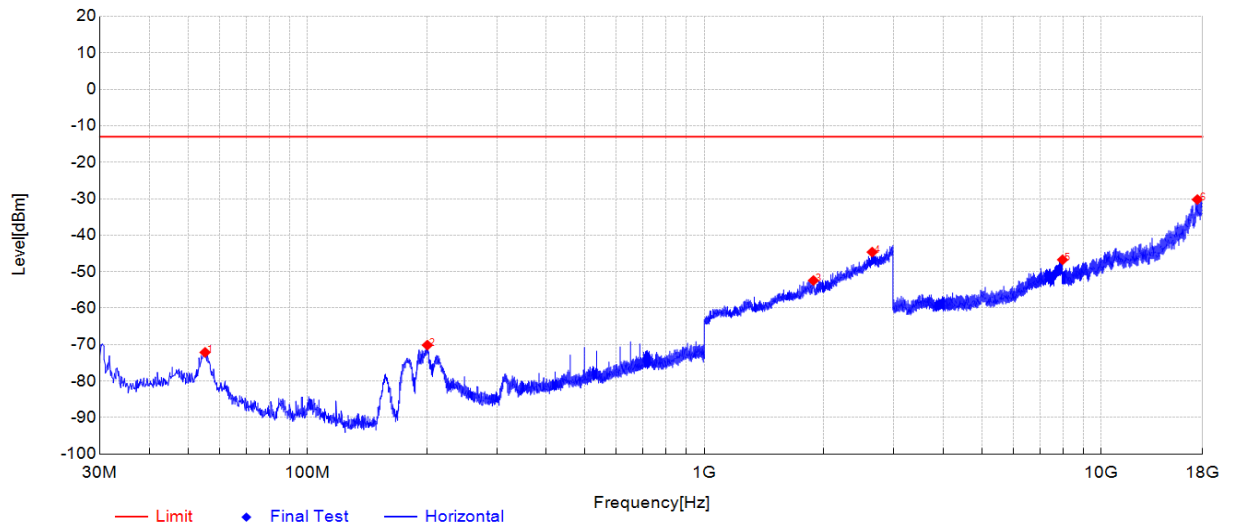
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	55.22	-56.85	-72.46	-15.6	-13.0	59.5	Horizontal	PK	20	PASS
2	199.6288	-52.34	-70.23	-17.9	-13.0	57.2	Horizontal	PK	20	PASS
3	1881	-57.33	-52.08	5.3	-13.0	39.1	Horizontal	PK	0	PASS
4	2683.5	-56.57	-44.88	11.7	-13.0	31.9	Horizontal	PK	260	PASS
5	7966.0927	-60.26	-46.97	13.3	-13.0	34.0	Horizontal	PK	200	PASS
6	17453.4204	-65.49	-29.53	36.0	-13.0	16.5	Horizontal	PK	300	PASS

N2 376000 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G H



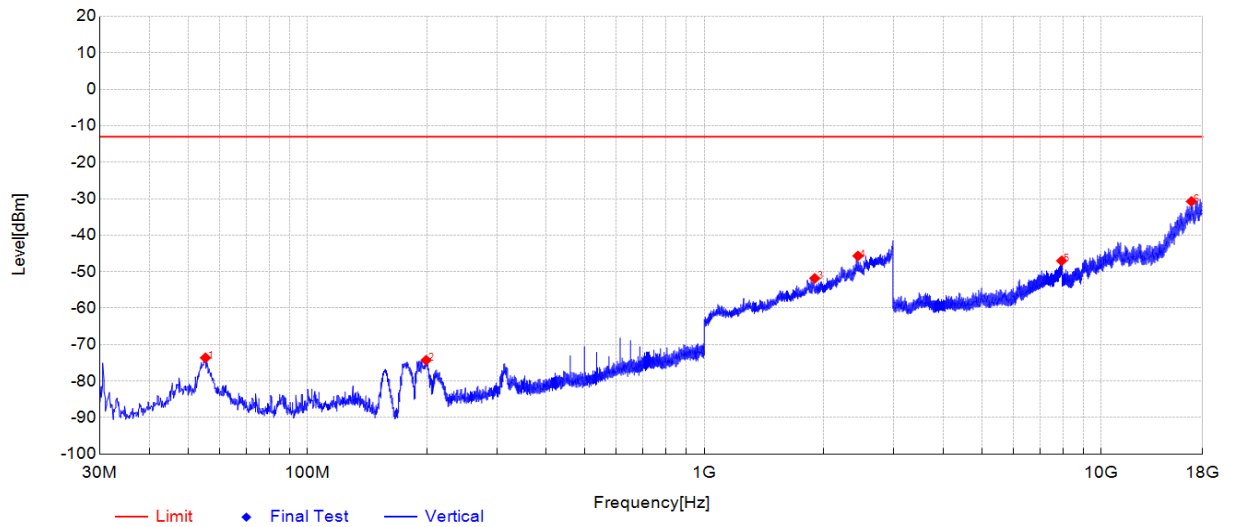
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	54.735	-56.83	-73.88	-17.1	-13.0	60.9	Vertical	PK	20	PASS
2	192.2325	-51.65	-73.61	-22.0	-13.0	60.6	Vertical	PK	20	PASS
3	1833	-57.14	-52.39	4.8	-13.0	39.4	Vertical	PK	320	PASS
4	2705.5	-56.33	-44.94	11.4	-13.0	31.9	Vertical	PK	80	PASS
5	7962.3426	-60.17	-47.35	12.8	-13.0	34.4	Vertical	PK	360	PASS
6	16898.4031	-66.44	-30.46	36.0	-13.0	17.5	Vertical	PK	60	PASS

N2 376000 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G V



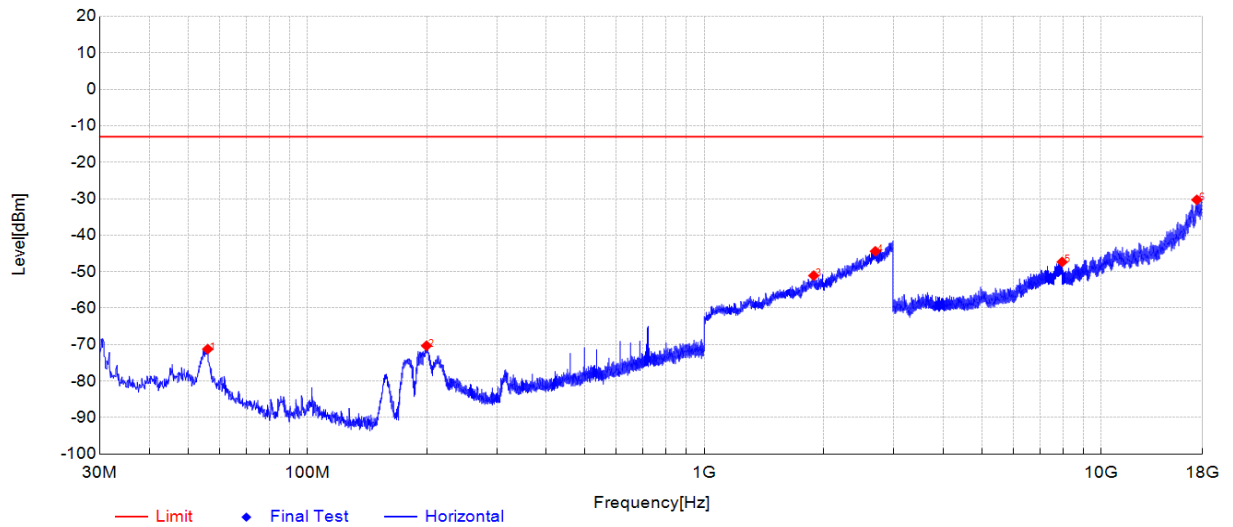
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	55.22	-56.52	-72.13	-15.6	-13.0	59.1	Horizontal	PK	20	PASS
2	200.4775	-52.40	-70.15	-17.8	-13.0	57.2	Horizontal	PK	180	PASS
3	1883	-57.59	-52.42	5.2	-13.0	39.4	Horizontal	PK	100	PASS
4	2647.5	-56.13	-44.65	11.5	-13.0	31.7	Horizontal	PK	140	PASS
5	7987.6559	-60.10	-46.74	13.4	-13.0	33.7	Horizontal	PK	180	PASS
6	17458.5768	-66.18	-30.23	36.0	-13.0	17.2	Horizontal	PK	300	PASS

N2 381500 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G H



NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	55.3412	-56.55	-73.61	-17.1	-13.0	60.6	Vertical	PK	20	PASS
2	199.1438	-52.73	-74.27	-21.5	-13.0	61.3	Vertical	PK	220	PASS
3	1897	-56.93	-51.84	5.1	-13.0	38.8	Vertical	PK	120	PASS
4	2437.5	-55.77	-45.70	10.1	-13.0	32.7	Vertical	PK	100	PASS
5	7944.9983	-59.74	-47.02	12.7	-13.0	34.0	Vertical	PK	280	PASS
6	16870.2772	-66.15	-30.76	35.4	-13.0	17.8	Vertical	PK	280	PASS

N2 381500 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G V



NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Angle [°]	Verdict
1	56.0688	-55.44	-71.24	-15.8	-13.0	58.2	Horizontal	PK	160	PASS
2	199.5075	-52.60	-70.31	-17.7	-13.0	57.3	Horizontal	PK	300	PASS
3	1886	-56.94	-51.10	5.8	-13.0	38.1	Horizontal	PK	20	PASS
4	2696	-57.05	-44.41	12.6	-13.0	31.4	Horizontal	PK	180	PASS
5	7969.8428	-60.64	-47.35	13.3	-13.0	34.4	Horizontal	PK	260	PASS
6	17406.0752	-66.40	-30.31	36.1	-13.0	17.3	Horizontal	PK	200	PASS

N5 165300 20M DFT-S-OFDM QPSK RB Size-1 RB OFFset-1 SCS 15HHz 30M-18G H