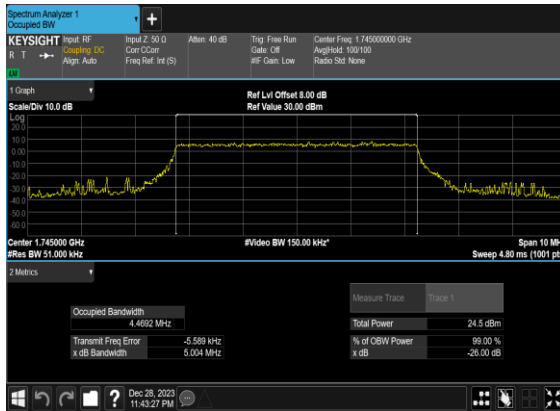
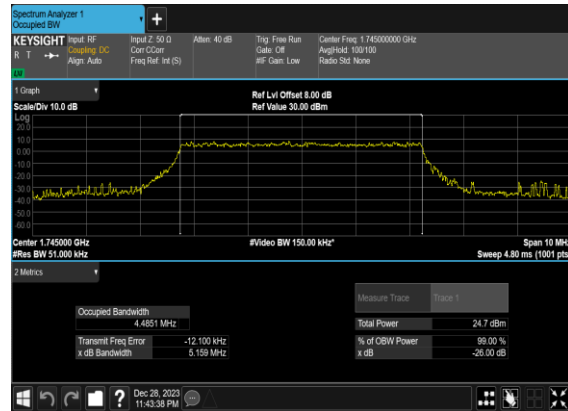


N66(5M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



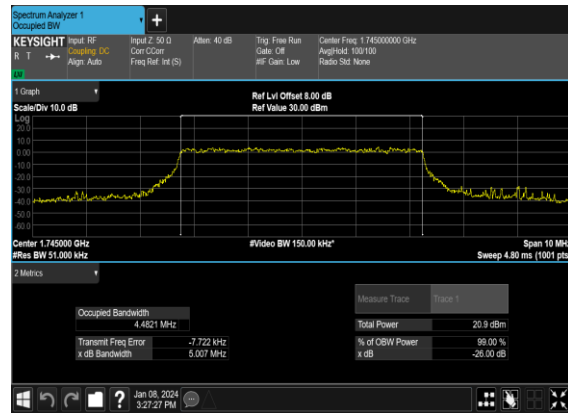
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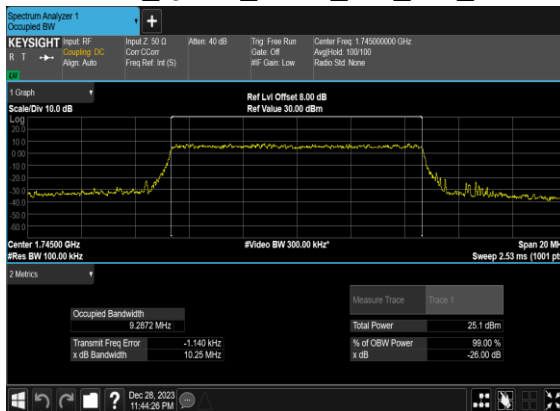
N66(5M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



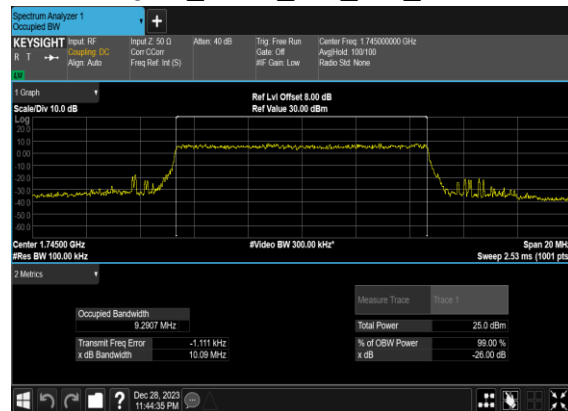
N66(5M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



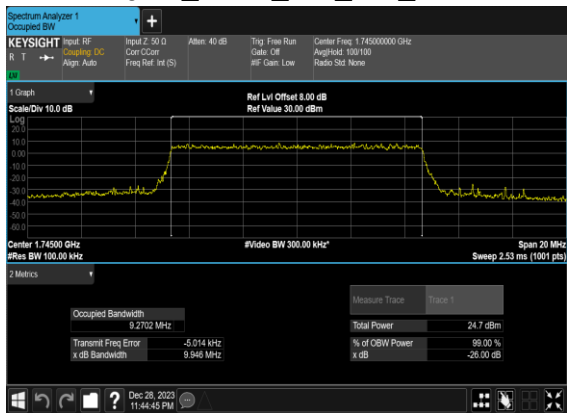
N66(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



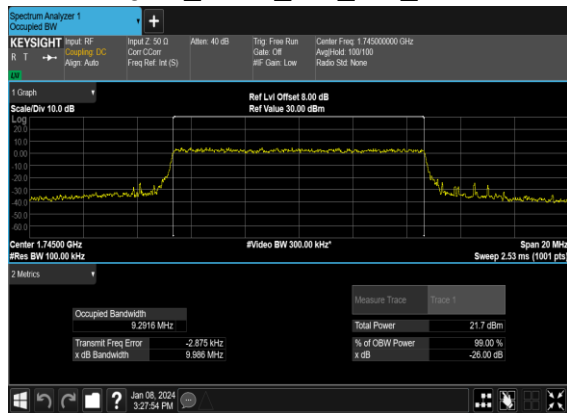
N66(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



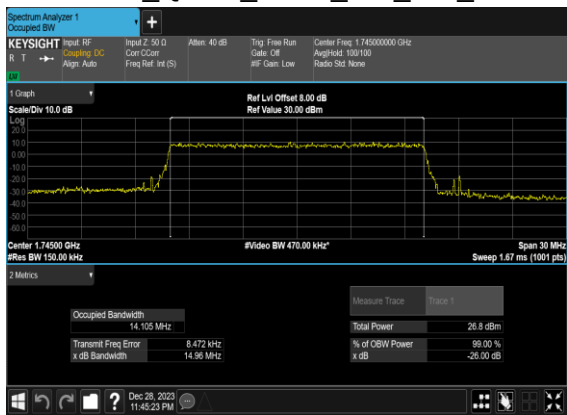
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QAM_Outer_Full_Mid_CH



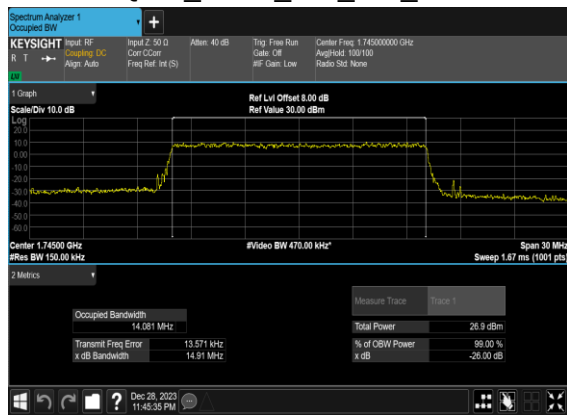
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QAM_Outer_Full_Mid_CH



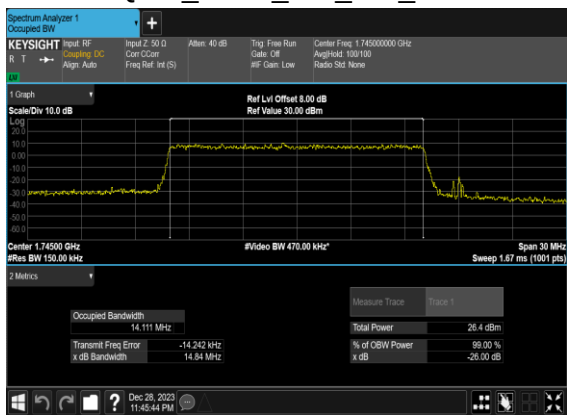
N66(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



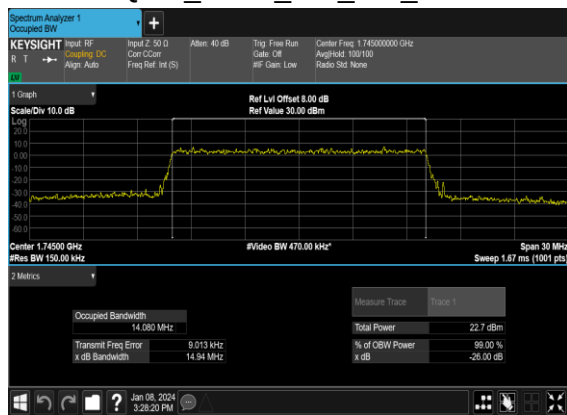
N66(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



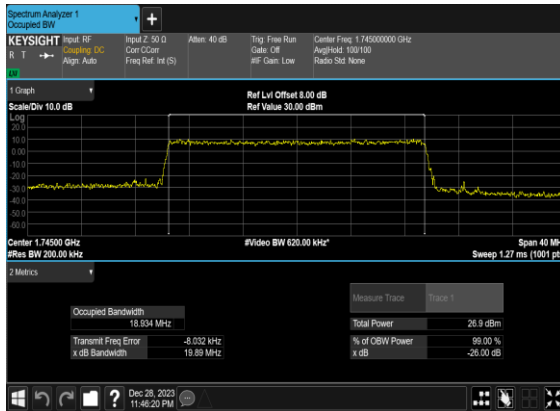
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QAM_Outer_Full_Mid_CH



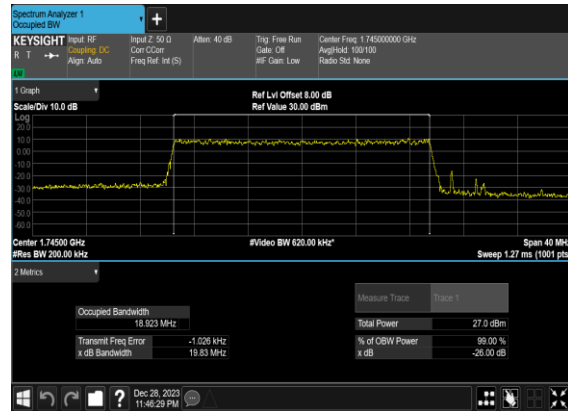
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QAM_Outer_Full_Mid_CH



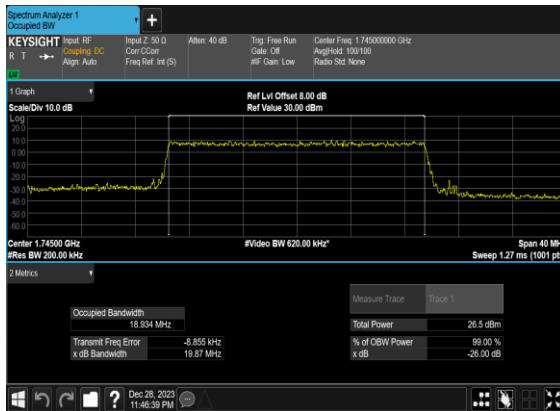
N66(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



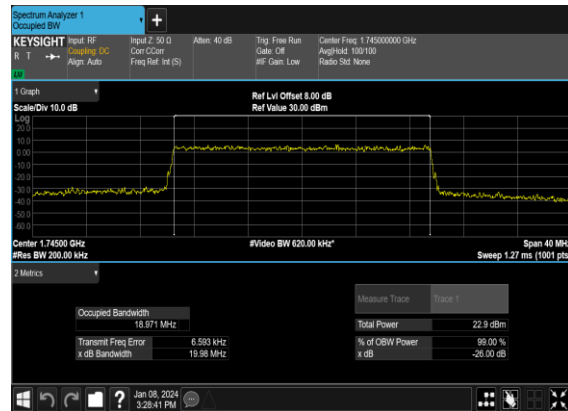
N66(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



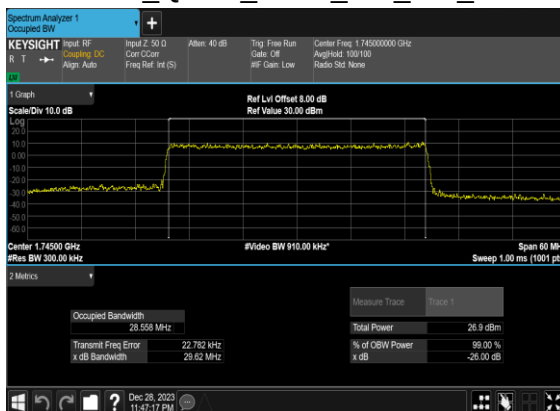
N66(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



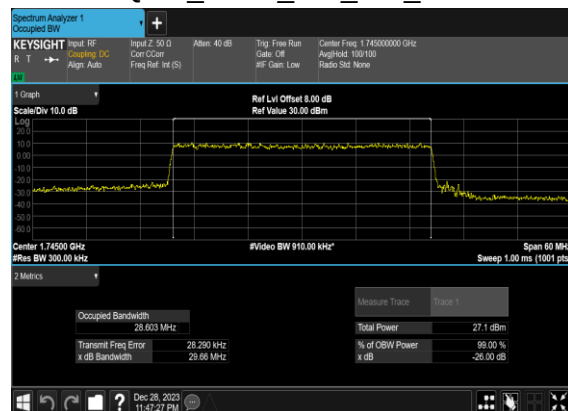
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QAM_Outer_Full_Mid_CH



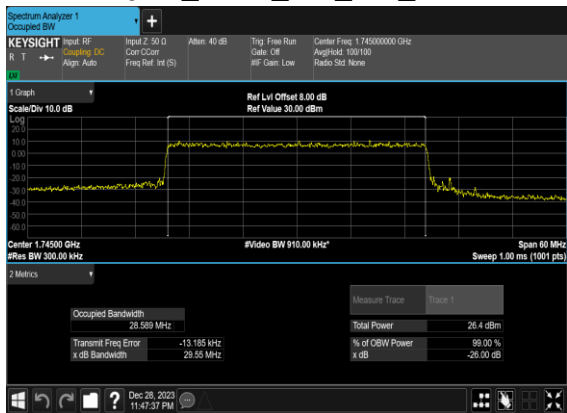
N66(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



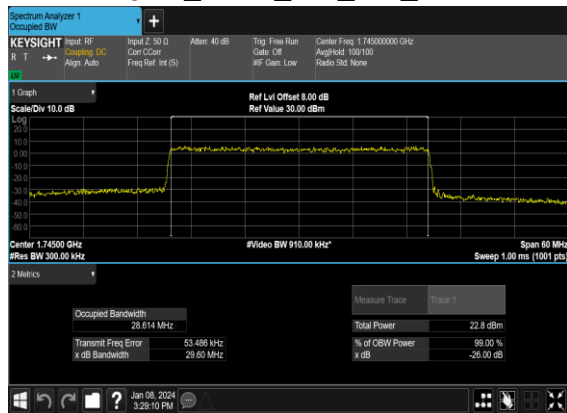
N66(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



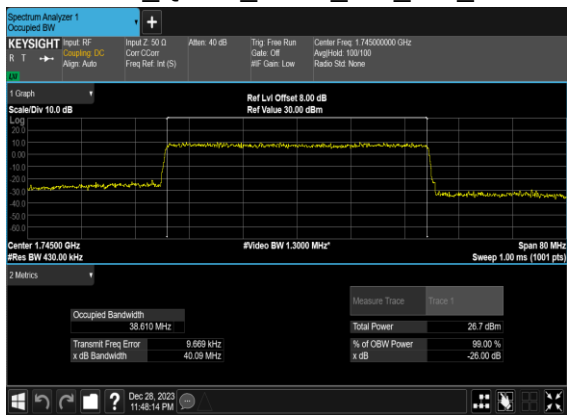
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QAM_Outer_Full_Mid_CH



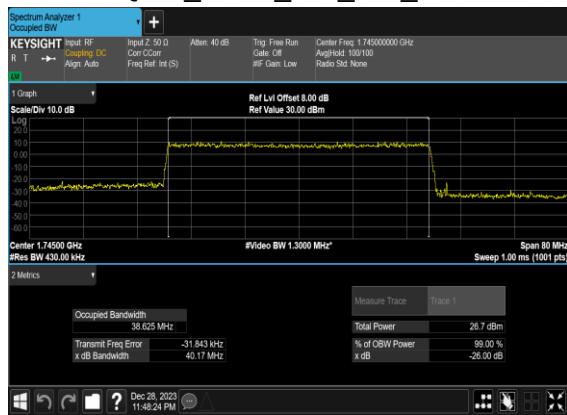
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QAM_Outer_Full_Mid_CH



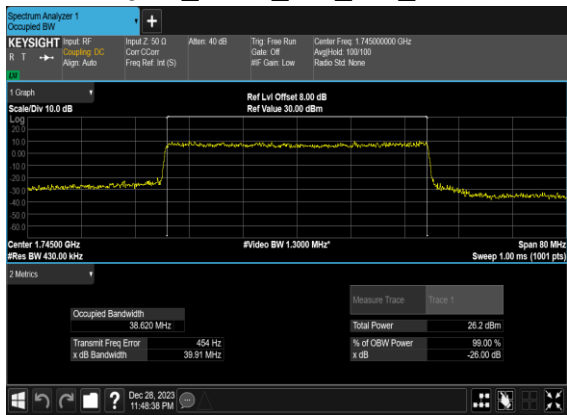
N66(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



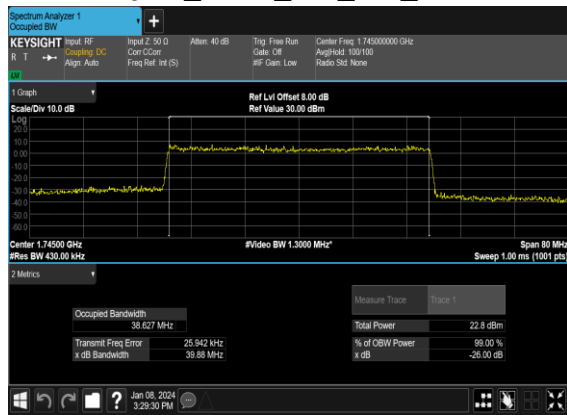
N66(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N66(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N66(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

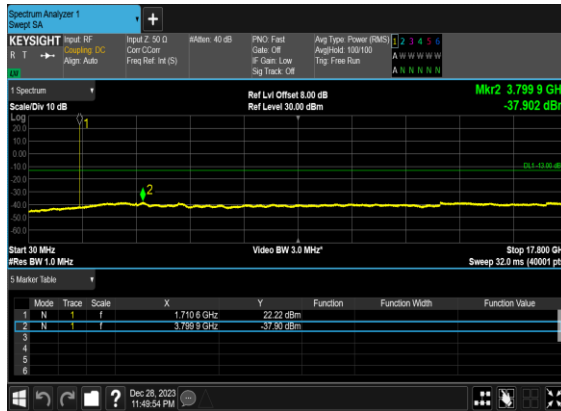


Conducted Spurious Emissions

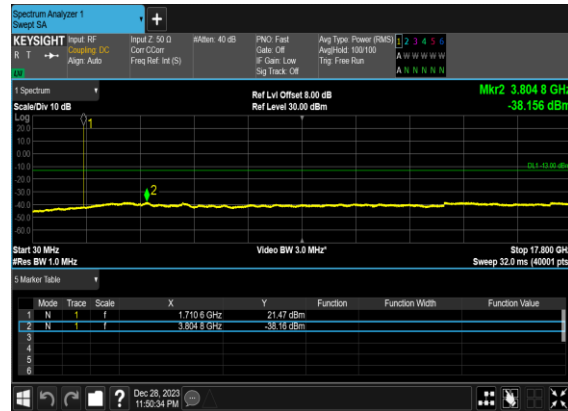
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	---
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	---
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

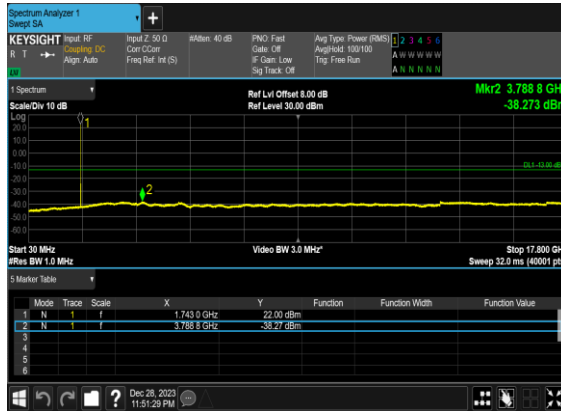
N66(5M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Low_CH



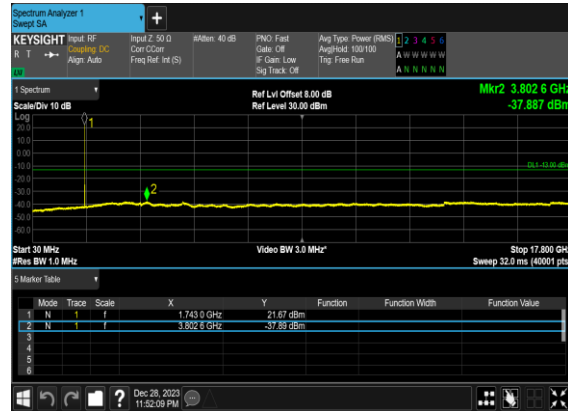
N66(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Low_CH



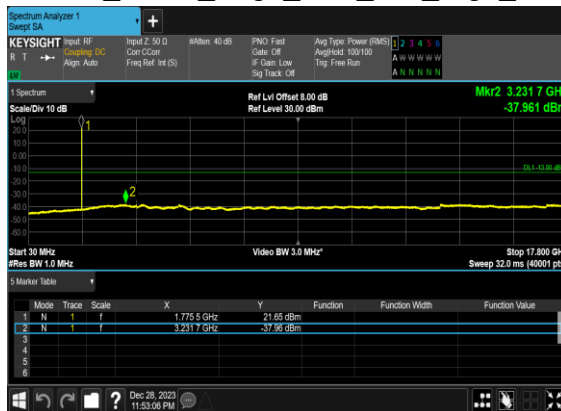
N66(5M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_Mid_CH



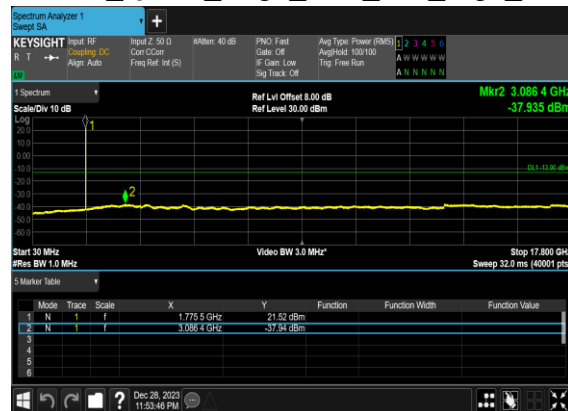
N66(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



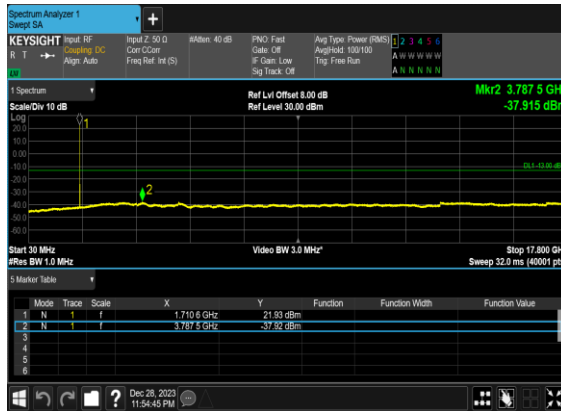
N66(5M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



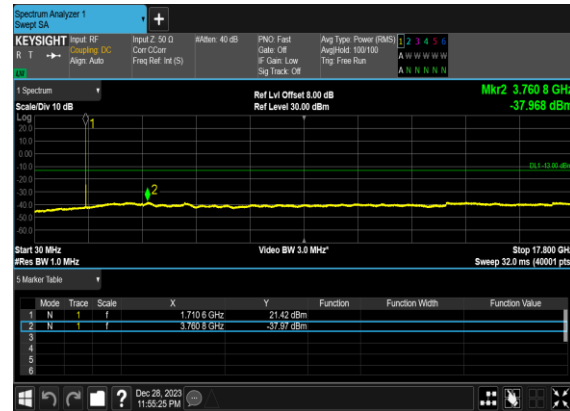
N66(5M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



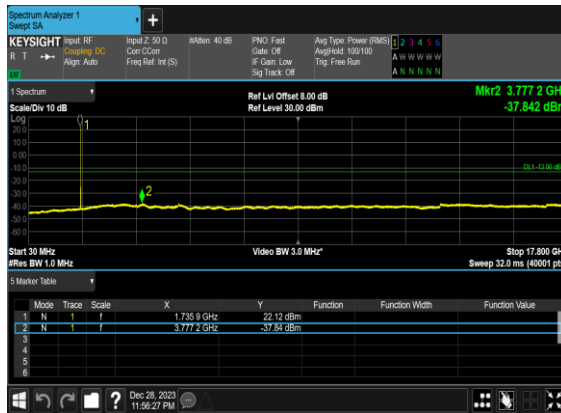
N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



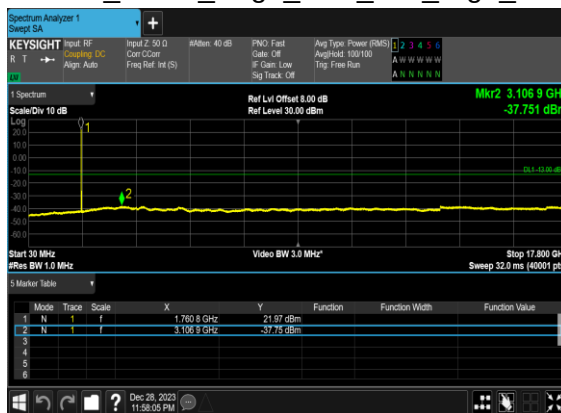
N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



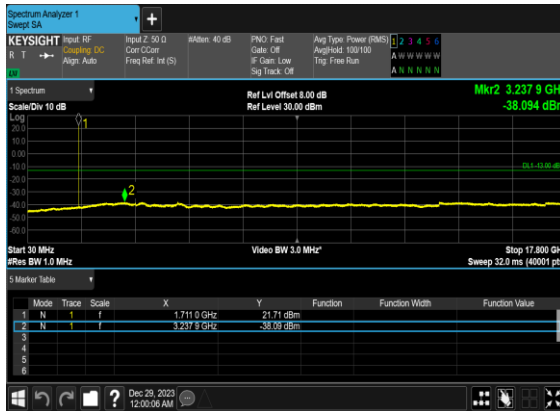
N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



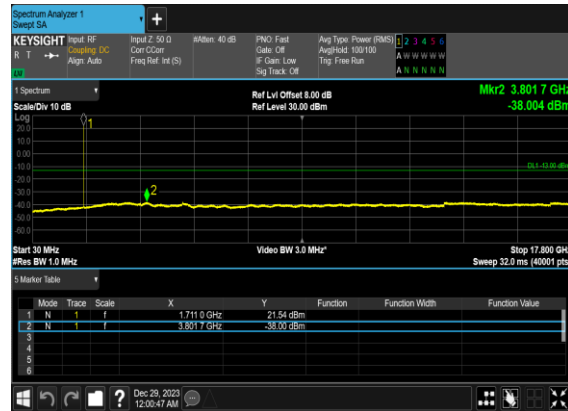
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



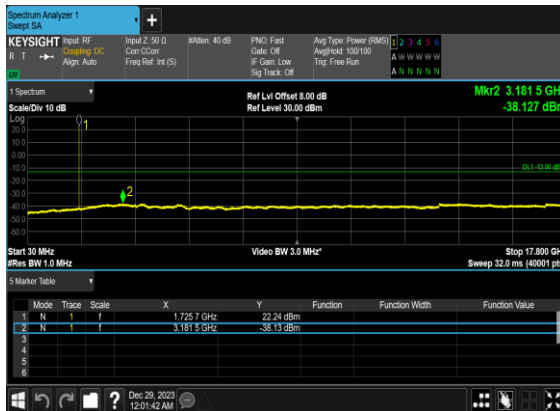
N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



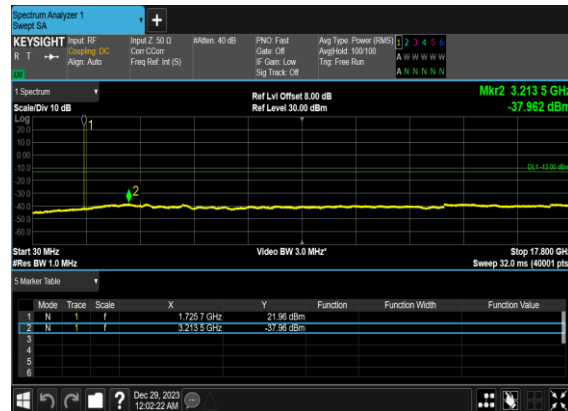
N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

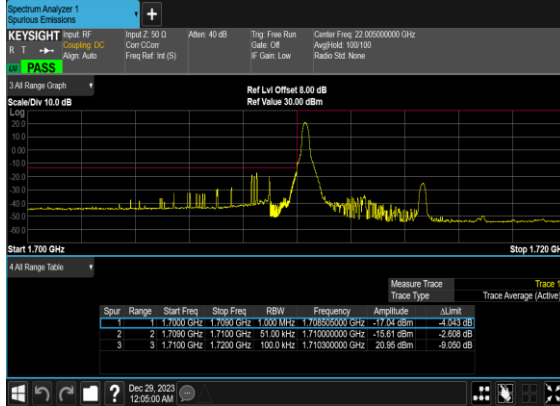


Conducted Band Edge

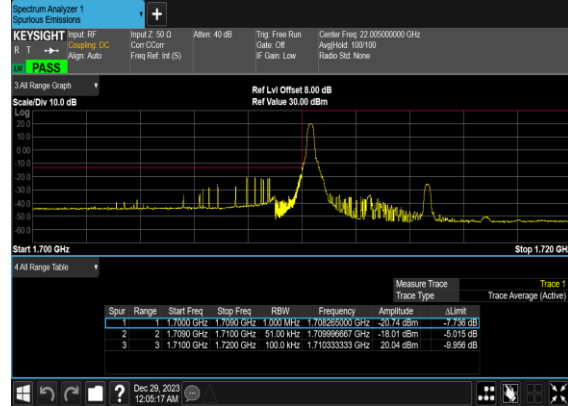
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	25@0	see graph	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	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@215	see graph	PASS

66	15	40	352000	1760.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	216@0	see graph	PASS

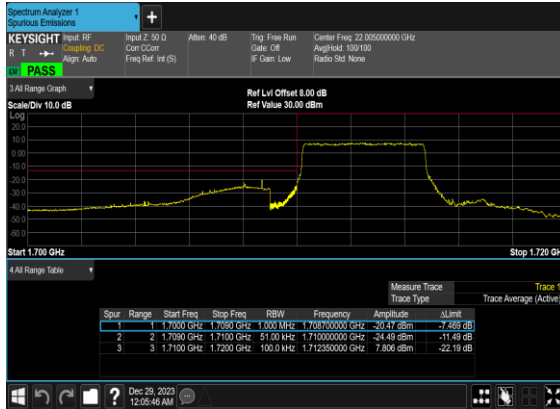
N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



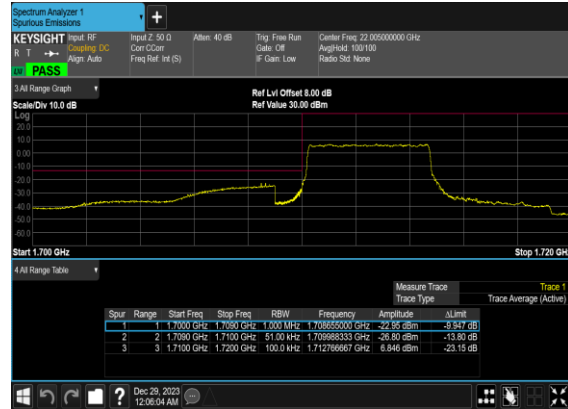
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



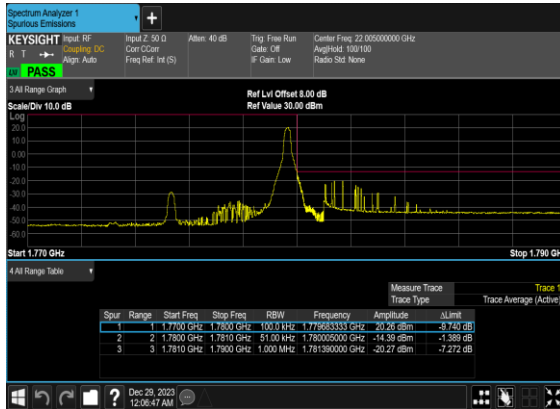
N66(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



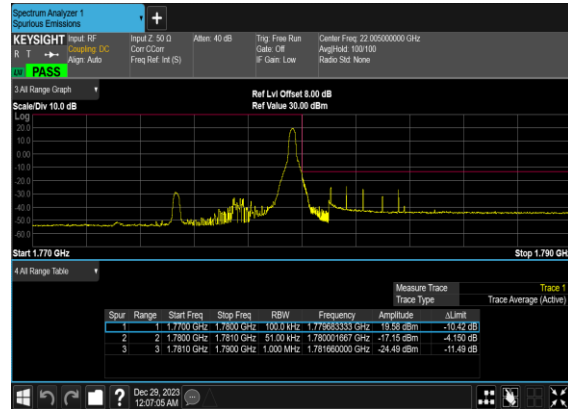
N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



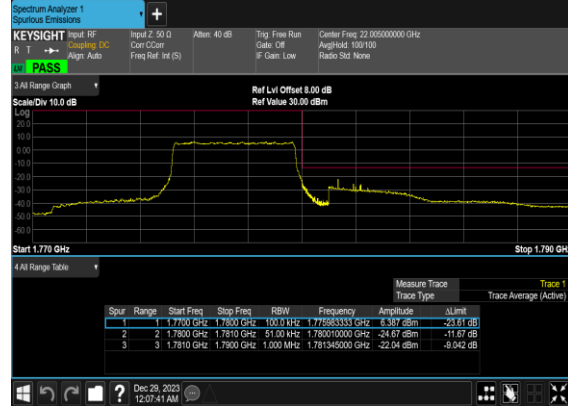
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



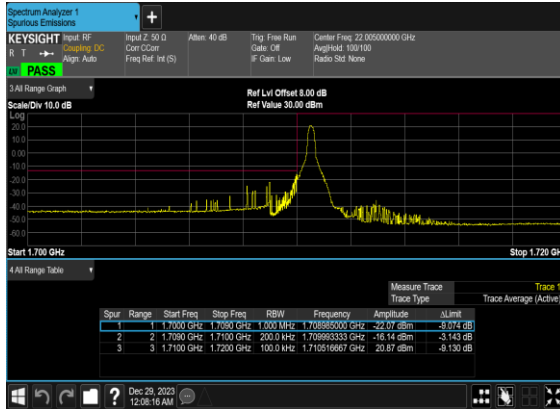
N66(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



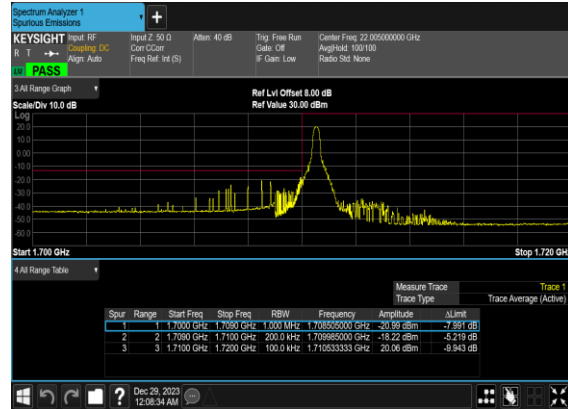
N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



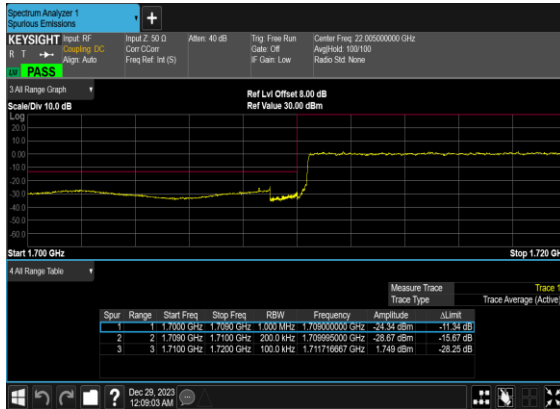
N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



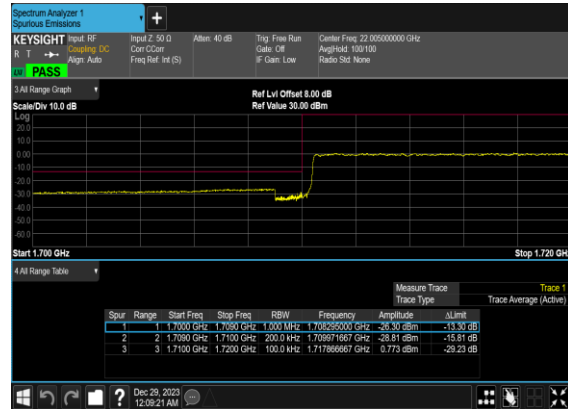
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



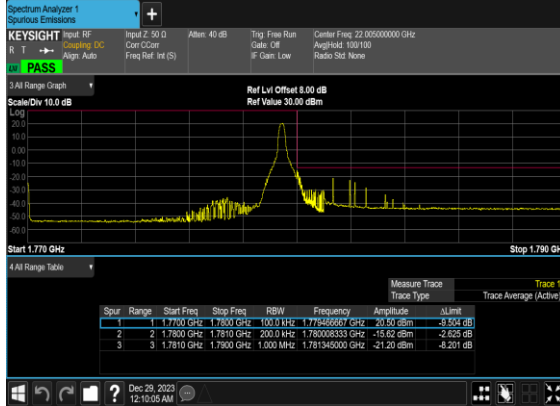
N66(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N66(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



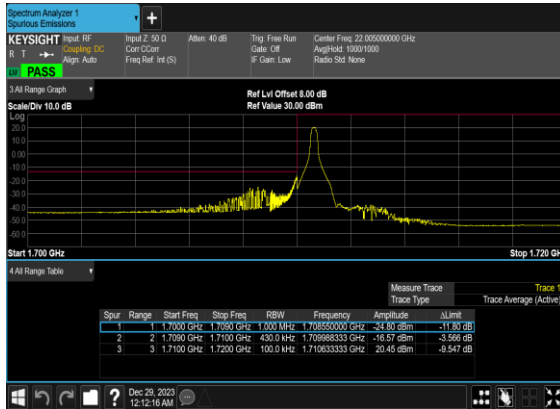
N66(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



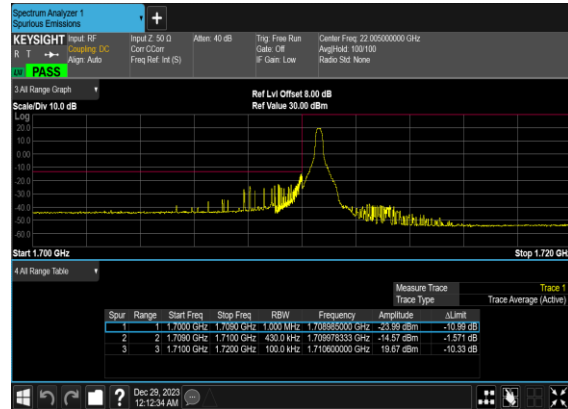
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OFDM_QPSK_Outer_Full_High_CH



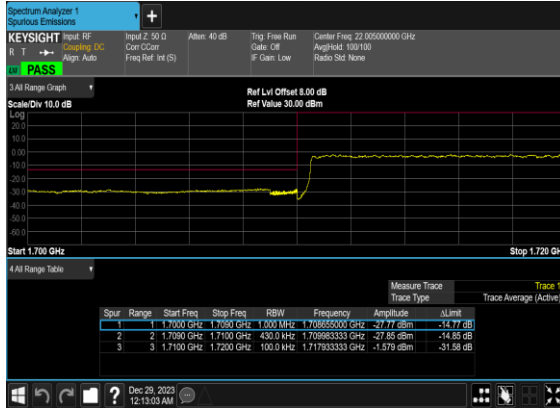
N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



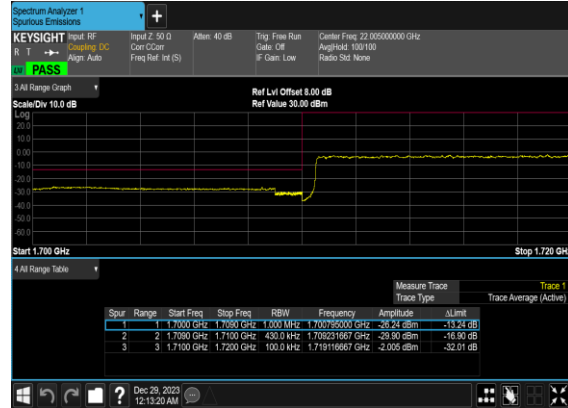
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OFDM_QPSK_Edge_1RB_Left_Low_CH



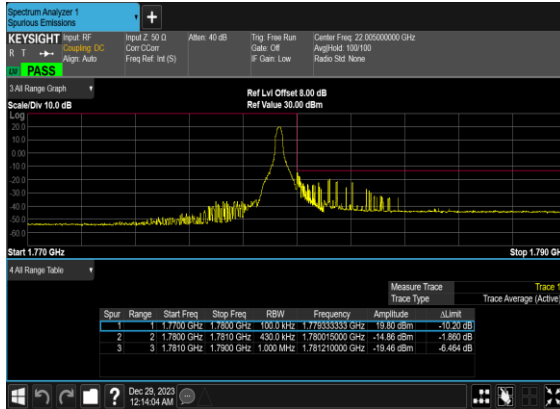
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OFDM_BPSK_Outer_Full_Low_CH



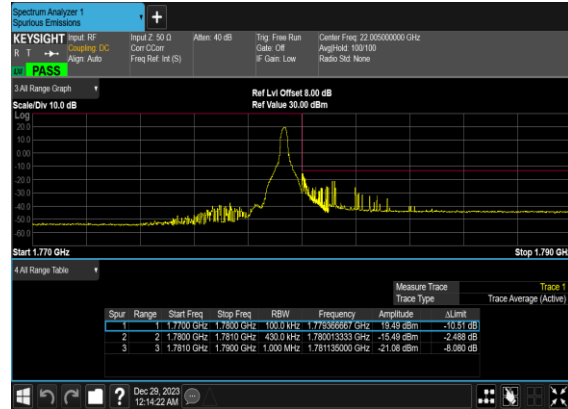
N66(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N66(40M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N66(40M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



FR1 N66(ANT2)-Other PA

LTE Band: 5, LTE BW: 10M, LTE ARFCN: Mid

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-0.24dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@1	22.25	22.01	0.1589
66	15	5	342500	1712.5	DFT-s-OFDM 16 QAM	1@1	21.88	21.64	0.1459
66	15	5	349000	1745	DFT-s-OFDM QPSK	1@1	22.13	21.89	0.1545
66	15	5	349000	1745	DFT-s-OFDM 16 QAM	1@1	21.79	21.55	0.1429
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@1	22.36	22.12	0.1629
66	15	5	355500	1777.5	DFT-s-OFDM 16 QAM	1@1	21.86	21.62	0.1452
66	15	10	343000	1715	DFT-s-OFDM QPSK	1@1	22.39	22.15	0.1641
66	15	10	343000	1715	DFT-s-OFDM 16 QAM	1@1	21.48	21.24	0.1330
66	15	10	349000	1745	DFT-s-OFDM QPSK	1@1	22.54	22.3	0.1698
66	15	10	349000	1745	DFT-s-OFDM 16 QAM	1@1	21.63	21.39	0.1377
66	15	10	355000	1775	DFT-s-OFDM QPSK	1@1	22.23	21.99	0.1581
66	15	10	355000	1775	DFT-s-OFDM 16 QAM	1@1	21.29	21.05	0.1274
66	15	15	343500	1717.5	DFT-s-OFDM QPSK	1@1	22.43	22.19	0.1656
66	15	15	343500	1717.5	DFT-s-OFDM 16 QAM	1@1	21.48	21.24	0.1330
66	15	15	349000	1745	DFT-s-OFDM QPSK	1@1	22.19	21.95	0.1567
66	15	15	349000	1745	DFT-s-OFDM 16 QAM	1@1	21.28	21.04	0.1271
66	15	15	354500	1772.5	DFT-s-OFDM QPSK	1@1	21.93	21.69	0.1476
66	15	15	354500	1772.5	DFT-s-OFDM 16 QAM	1@1	21.02	20.78	0.1197
66	15	20	344000	1720	DFT-s-OFDM QPSK	1@1	22.51	22.27	0.1687
66	15	20	344000	1720	DFT-s-OFDM 16 QAM	1@1	21.49	21.25	0.1334
66	15	20	349000	1745	DFT-s-OFDM QPSK	1@1	22.03	21.79	0.1510
66	15	20	349000	1745	DFT-s-OFDM 16 QAM	1@1	21.04	20.8	0.1202
66	15	20	354000	1770	DFT-s-OFDM QPSK	1@1	21.74	21.5	0.1413
66	15	20	354000	1770	DFT-s-OFDM 16 QAM	1@1	20.73	20.49	0.1119
66	15	30	345000	1725	DFT-s-OFDM QPSK	1@1	22.42	22.18	0.1652
66	15	30	345000	1725	DFT-s-OFDM 16 QAM	1@1	21.46	21.22	0.1324
66	15	30	349000	1745	DFT-s-OFDM QPSK	1@1	22.54	22.3	0.1698
66	15	30	349000	1745	DFT-s-OFDM 16 QAM	1@1	21.5	21.26	0.1337

66	15	30	353000	1765	DFT-s-OFDM QPSK	1@1	22.35	22.11	0.1626
66	15	30	353000	1765	DFT-s-OFDM 16 QAM	1@1	21.4	21.16	0.1306
66	15	40	346000	1730	DFT-s-OFDM PI/2 BPSK	108@54	20.37	20.13	0.1030
66	15	40	346000	1730	DFT-s-OFDM PI/2 BPSK	1@1	22.39	22.15	0.1641
66	15	40	346000	1730	DFT-s-OFDM PI/2 BPSK	1@214	22.5	22.26	0.1683
66	15	40	346000	1730	DFT-s-OFDM QPSK	108@54	21.55	21.31	0.1352
66	15	40	346000	1730	DFT-s-OFDM QPSK	1@1	22.43	22.19	0.1656
66	15	40	346000	1730	DFT-s-OFDM QPSK	1@214	22.55	22.31	0.1702
66	15	40	346000	1730	DFT-s-OFDM 16 QAM	108@54	20.84	20.6	0.1148
66	15	40	346000	1730	DFT-s-OFDM 16 QAM	1@1	21.45	21.21	0.1321
66	15	40	346000	1730	DFT-s-OFDM 16 QAM	1@214	21.5	21.26	0.1337
66	15	40	346000	1730	DFT-s-OFDM 64 QAM	108@54	19.56	19.32	0.0855
66	15	40	346000	1730	DFT-s-OFDM 64 QAM	1@1	20.2	19.96	0.0991
66	15	40	346000	1730	DFT-s-OFDM 64 QAM	1@214	20.15	19.91	0.0979
66	15	40	346000	1730	DFT-s-OFDM 256 QAM	108@54	17.33	17.09	0.0512
66	15	40	346000	1730	DFT-s-OFDM 256 QAM	1@1	17.65	17.41	0.0551
66	15	40	346000	1730	DFT-s-OFDM 256 QAM	1@214	17.79	17.55	0.0569
66	15	40	346000	1730	CP-OFDM QPSK	108@54	20.09	19.85	0.0966
66	15	40	346000	1730	CP-OFDM QPSK	1@1	21.04	20.8	0.1202
66	15	40	346000	1730	CP-OFDM QPSK	1@214	21.05	20.81	0.1205
66	15	40	349000	1745	DFT-s-OFDM PI/2 BPSK	108@54	22.51	22.27	0.1687
66	15	40	349000	1745	DFT-s-OFDM PI/2 BPSK	1@1	22.45	22.21	0.1663
66	15	40	349000	1745	DFT-s-OFDM PI/2 BPSK	1@214	22.23	21.99	0.1581
66	15	40	349000	1745	DFT-s-OFDM QPSK	108@54	22.48	22.24	0.1675
66	15	40	349000	1745	DFT-s-OFDM QPSK	1@1	22.54	22.3	0.1698
66	15	40	349000	1745	DFT-s-OFDM QPSK	1@214	22.22	21.98	0.1578
66	15	40	349000	1745	DFT-s-OFDM 16 QAM	108@54	21.53	21.29	0.1346
66	15	40	349000	1745	DFT-s-OFDM 16 QAM	1@1	21.58	21.34	0.1361
66	15	40	349000	1745	DFT-s-OFDM 16 QAM	1@214	21.29	21.05	0.1274
66	15	40	349000	1745	DFT-s-OFDM 64 QAM	108@54	20.05	19.81	0.0957
66	15	40	349000	1745	DFT-s-OFDM 64 QAM	1@1	20.18	19.94	0.0986
66	15	40	349000	1745	DFT-s-OFDM 64 QAM	1@214	19.94	19.7	0.0933
66	15	40	349000	1745	DFT-s-OFDM 256 QAM	108@54	18.01	17.77	0.0598
66	15	40	349000	1745	DFT-s-OFDM 256 QAM	1@1	17.73	17.49	0.0561
66	15	40	349000	1745	DFT-s-OFDM 256 QAM	1@214	17.52	17.28	0.0535

66	15	40	349000	1745	CP-OFDM QPSK	108@54	21	20.76	0.1191
66	15	40	349000	1745	CP-OFDM QPSK	1@1	20.98	20.74	0.1186
66	15	40	349000	1745	CP-OFDM QPSK	1@214	20.78	20.54	0.1132
66	15	40	352000	1760	DFT-s-OFDM PI/2 BPSK	108@54	22.36	22.12	0.1629
66	15	40	352000	1760	DFT-s-OFDM PI/2 BPSK	1@1	22.5	22.26	0.1683
66	15	40	352000	1760	DFT-s-OFDM PI/2 BPSK	1@214	22.21	21.97	0.1574
66	15	40	352000	1760	DFT-s-OFDM QPSK	108@54	22.29	22.05	0.1603
66	15	40	352000	1760	DFT-s-OFDM QPSK	1@1	22.51	22.27	0.1687
66	15	40	352000	1760	DFT-s-OFDM QPSK	1@214	22.17	21.93	0.1560
66	15	40	352000	1760	DFT-s-OFDM 16 QAM	108@54	21.45	21.21	0.1321
66	15	40	352000	1760	DFT-s-OFDM 16 QAM	1@1	21.46	21.22	0.1324
66	15	40	352000	1760	DFT-s-OFDM 16 QAM	1@214	21.27	21.03	0.1268
66	15	40	352000	1760	DFT-s-OFDM 64 QAM	108@54	19.83	19.59	0.0910
66	15	40	352000	1760	DFT-s-OFDM 64 QAM	1@1	20.22	19.98	0.0995
66	15	40	352000	1760	DFT-s-OFDM 64 QAM	1@214	19.98	19.74	0.0942
66	15	40	352000	1760	DFT-s-OFDM 256 QAM	108@54	17.79	17.55	0.0569
66	15	40	352000	1760	DFT-s-OFDM 256 QAM	1@1	17.58	17.34	0.0542
66	15	40	352000	1760	DFT-s-OFDM 256 QAM	1@214	17.48	17.24	0.0530
66	15	40	352000	1760	CP-OFDM QPSK	108@54	20.82	20.58	0.1143
66	15	40	352000	1760	CP-OFDM QPSK	1@1	20.97	20.73	0.1183
66	15	40	352000	1760	CP-OFDM QPSK	1@214	20.72	20.48	0.1117

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0063	PASS	NV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0056	PASS	LV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0022	PASS	HV
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0062	PASS	-30°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0069	PASS	-20°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0050	PASS	-10°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0055	PASS	0°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0044	PASS	10°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0063	PASS	20°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0059	PASS	30°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0026	PASS	40°C
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	0.0052	PASS	50°C

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
66	15	20	349000	1745.0	DFT-s-OFDM PI/2 BPSK	100@0	4.35	13	PASS
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	100@0	5.45	13	PASS

B5_N66(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



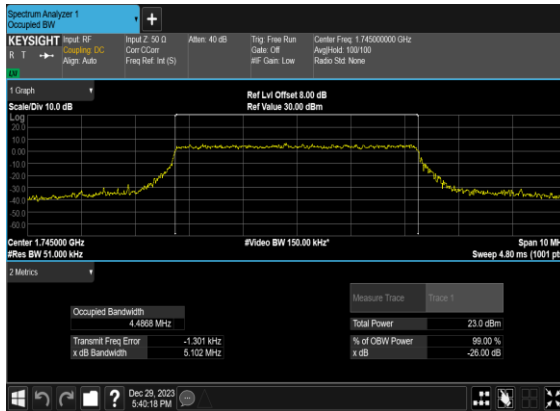
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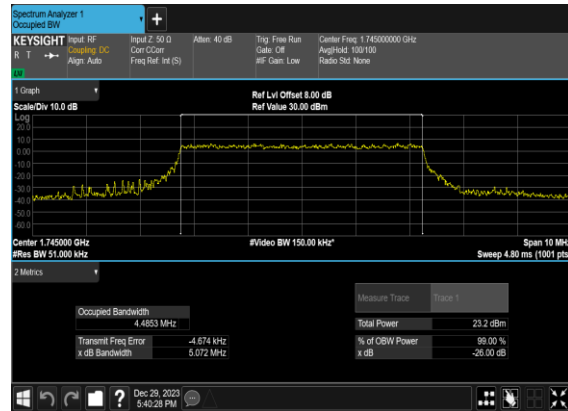
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
66	15	5	349000	1745.0	CP-OFDM QPSK	25@0	4.4868	5.102
66	15	5	349000	1745.0	CP-OFDM 16 QAM	25@0	4.4853	5.072
66	15	5	349000	1745.0	CP-OFDM 64 QAM	25@0	4.4785	5.146
66	15	5	349000	1745.0	CP-OFDM 256 QAM	25@0	4.4761	5.134
66	15	10	349000	1745.0	CP-OFDM QPSK	52@0	9.2822	10.08
66	15	10	349000	1745.0	CP-OFDM 16 QAM	52@0	9.2834	10.02
66	15	10	349000	1745.0	CP-OFDM 64 QAM	52@0	9.2853	10.01
66	15	10	349000	1745.0	CP-OFDM 256 QAM	52@0	9.2983	10.03
66	15	15	349000	1745.0	CP-OFDM QPSK	79@0	14.117	15.04
66	15	15	349000	1745.0	CP-OFDM 16 QAM	79@0	14.12	15.01
66	15	15	349000	1745.0	CP-OFDM 64 QAM	79@0	14.147	14.95
66	15	15	349000	1745.0	CP-OFDM 256 QAM	79@0	14.104	14.83
66	15	20	349000	1745.0	CP-OFDM QPSK	106@0	18.944	19.75
66	15	20	349000	1745.0	CP-OFDM 16 QAM	106@0	18.952	19.87
66	15	20	349000	1745.0	CP-OFDM 64 QAM	106@0	18.95	20.0
66	15	20	349000	1745.0	CP-OFDM 256 QAM	106@0	19.064	20.25
66	15	30	349000	1745.0	CP-OFDM QPSK	160@0	28.613	29.78
66	15	30	349000	1745.0	CP-OFDM 16 QAM	160@0	28.702	29.69
66	15	30	349000	1745.0	CP-OFDM 64 QAM	160@0	28.564	29.76
66	15	30	349000	1745.0	CP-OFDM 256 QAM	160@0	28.641	29.6
66	15	40	349000	1745.0	CP-OFDM QPSK	216@0	38.548	39.85
66	15	40	349000	1745.0	CP-OFDM 16 QAM	216@0	38.557	39.88
66	15	40	349000	1745.0	CP-OFDM 64 QAM	216@0	38.528	39.8
66	15	40	349000	1745.0	CP-OFDM 256 QAM	216@0	38.558	39.86

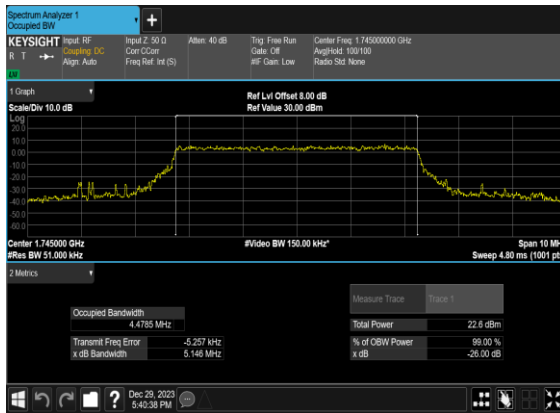
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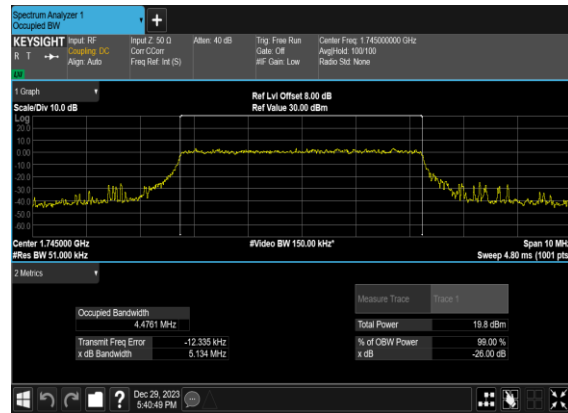
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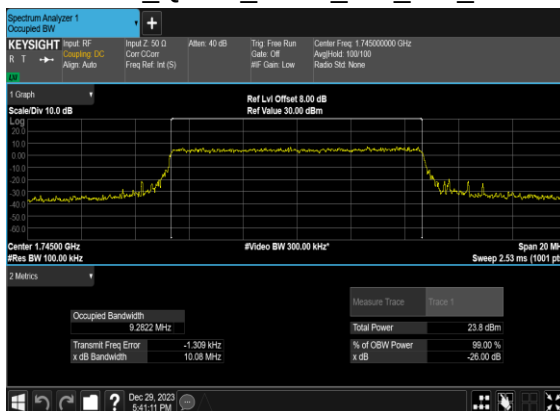
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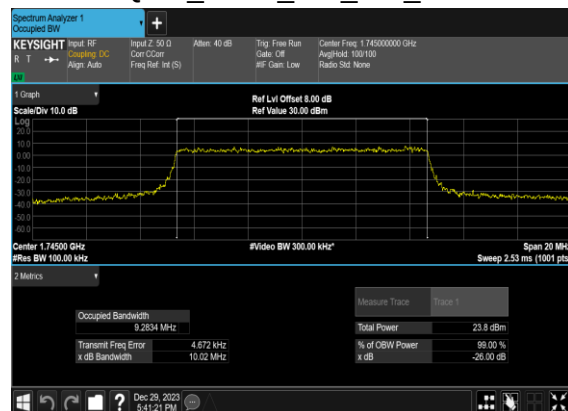
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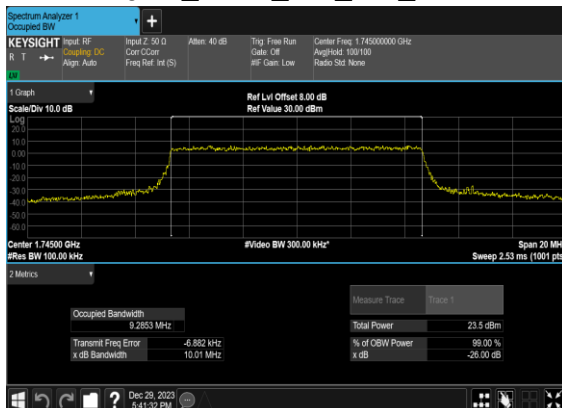
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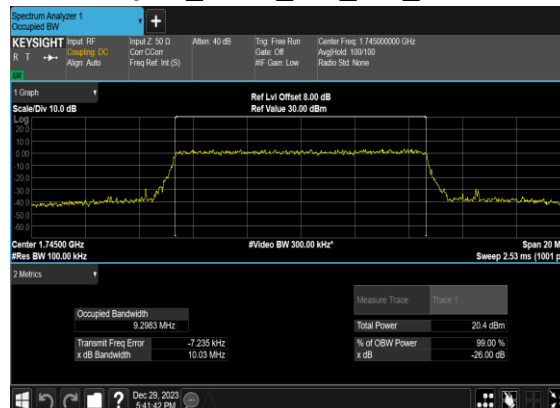
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QAM_Outer_Full_Mid_CH



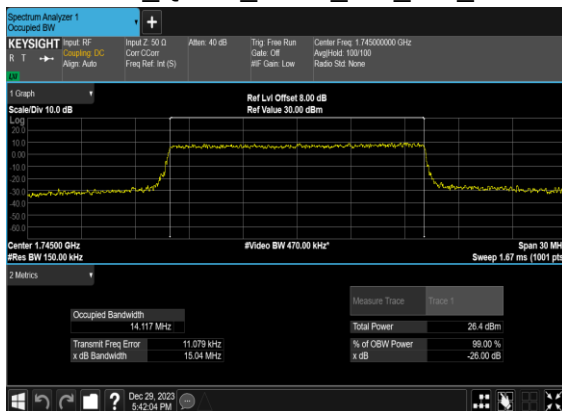
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QAM_Outer_Full_Mid_CH



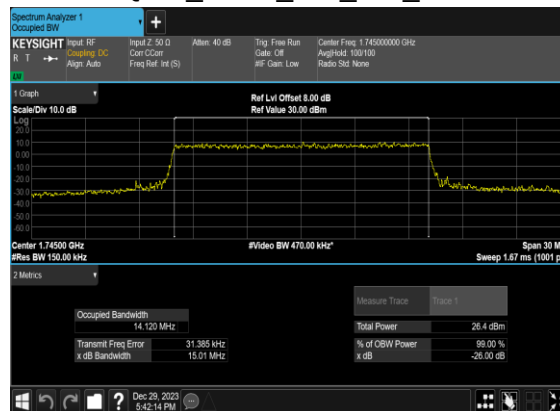
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QAM_Outer_Full_Mid_CH



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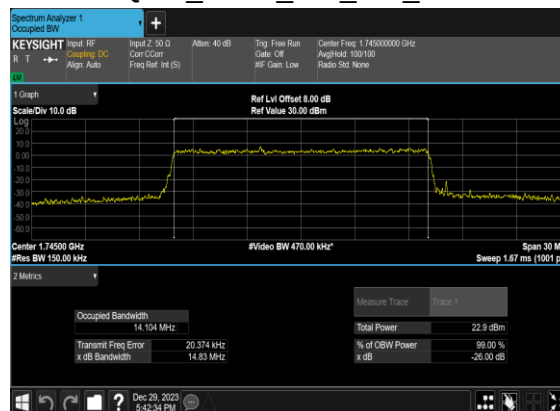
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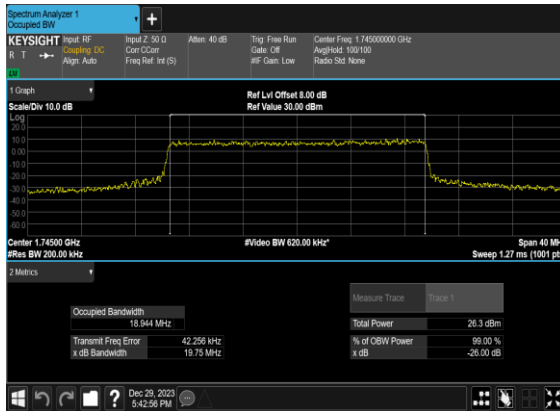
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QAM_Outer_Full_Mid_CH



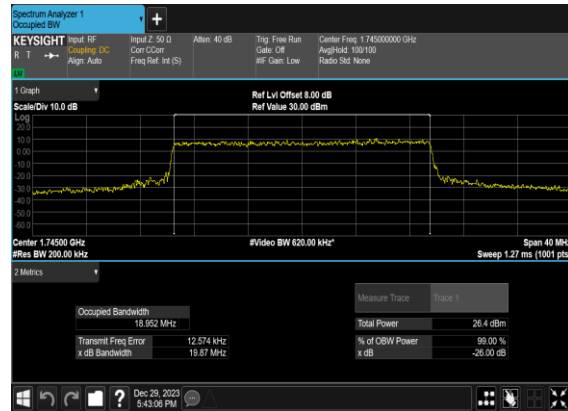
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QAM_Outer_Full_Mid_CH



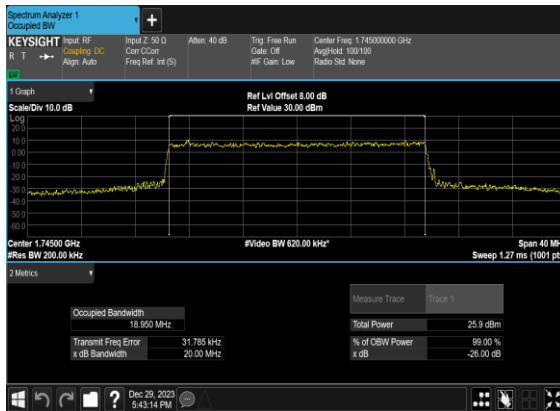
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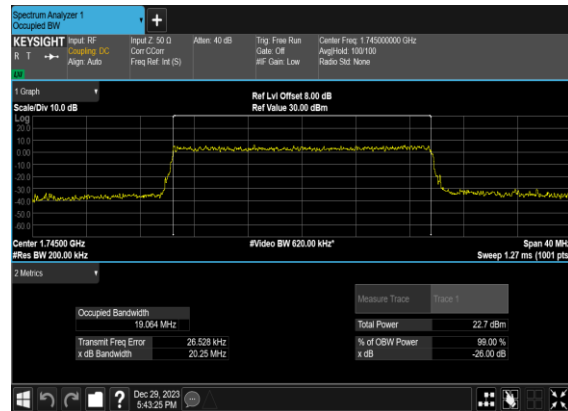
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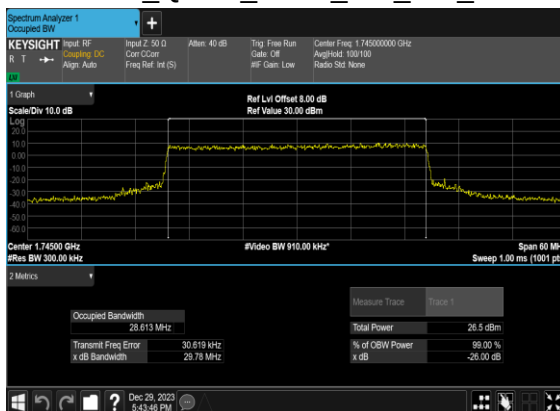
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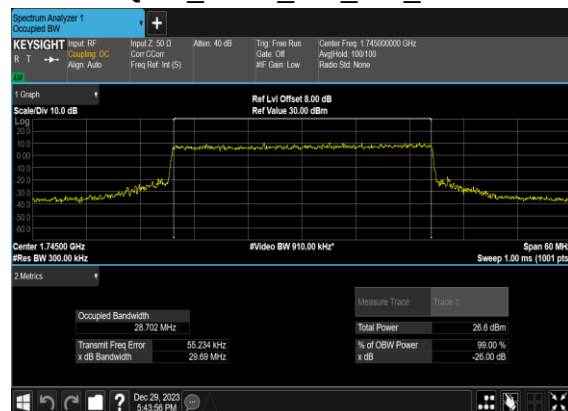
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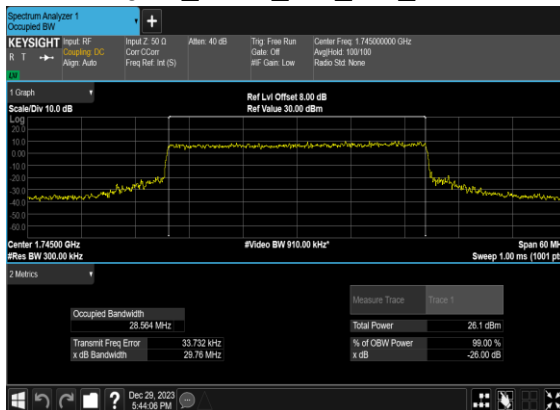
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OFDM_QPSK_Outer_Full_Mid_CH



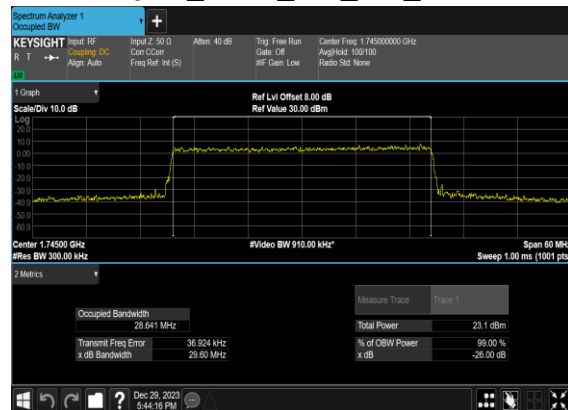
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QAM_Outer_Full_Mid_CH



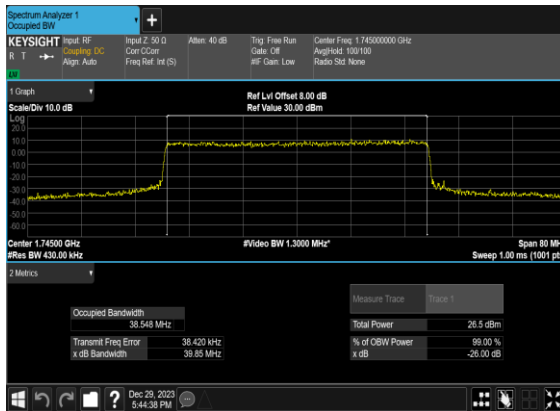
B5_N66(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



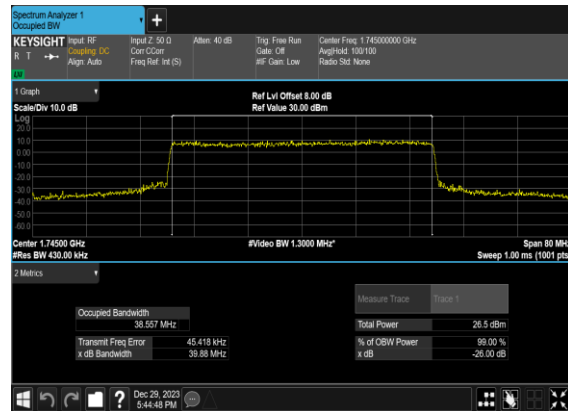
B5_N66(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



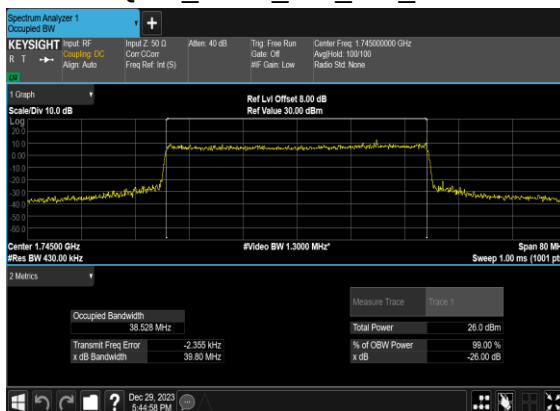
B5_N66(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



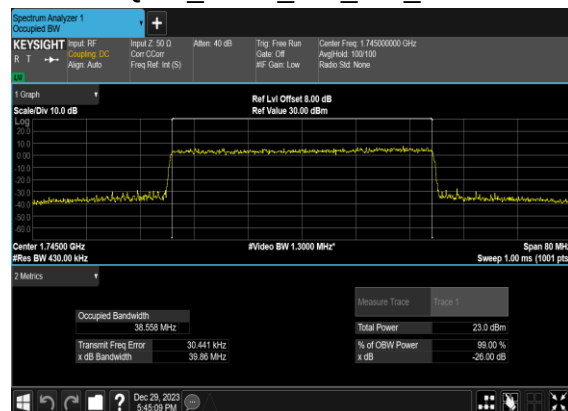
B5_N66(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B5_N66(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B5_N66(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	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 BPSK	1@0	see graph	PASS
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	355500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	355500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	344000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	---
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	---
66	15	20	344000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	354000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	354000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	349000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	349000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF: Input RF, Coupling DC: Coupling DC, Align: Auto

Input Z: 50 Ω, Port CCoer, Freq Ref: Int (S), #ARef: 40 dB, PNO Fast, Gate: Off, SF Chan: Low, Sig Track: Off, Avg Type: Power (RMS), Averaging: 100/100, Trig: Free Run

1 2 3 4 5 6
A W W W W W
A N N N N N

1 Spectrum
Scale/Div 10 dB
Log
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
-100.0
-110.0
-120.0
-130.0
-140.0
-150.0
-160.0
-170.0
-180.0
-190.0
-200.0
-210.0
-220.0
-230.0
-240.0
-250.0
-260.0
-270.0
-280.0
-290.0
-300.0
-310.0
-320.0
-330.0
-340.0
-350.0
-360.0
-370.0
-380.0
-390.0
-400.0
-410.0
-420.0
-430.0
-440.0
-450.0
-460.0
-470.0
-480.0
-490.0
-500.0
-510.0
-520.0
-530.0
-540.0
-550.0
-560.0
-570.0
-580.0
-590.0
-600.0
-610.0
-620.0
-630.0
-640.0
-650.0
-660.0
-670.0
-680.0
-690.0
-700.0
-710.0
-720.0
-730.0
-740.0
-750.0
-760.0
-770.0
-780.0
-790.0
-800.0
-810.0
-820.0
-830.0
-840.0
-850.0
-860.0
-870.0
-880.0
-890.0
-900.0
-910.0
-920.0
-930.0
-940.0
-950.0
-960.0
-970.0
-980.0
-990.0
-1000.0
-1010.0
-1020.0
-1030.0
-1040.0
-1050.0
-1060.0
-1070.0
-1080.0
-1090.0
-1100.0
-1110.0
-1120.0
-1130.0
-1140.0
-1150.0
-1160.0
-1170.0
-1180.0
-1190.0
-1200.0
-1210.0
-1220.0
-1230.0
-1240.0
-1250.0
-1260.0
-1270.0
-1280.0
-1290.0
-1300.0
-1310.0
-1320.0
-1330.0
-1340.0
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-1360.0
-1370.0
-1380.0
-1390.0
-1400.0
-1410.0
-1420.0
-1430.0
-1440.0
-1450.0
-1460.0
-1470.0
-1480.0
-1490.0
-1500.0
-1510.0
-1520.0
-1530.0
-1540.0
-1550.0
-1560.0
-1570.0
-1580.0
-1590.0
-1600.0
-1610.0
-1620.0
-1630.0
-1640.0
-1650.0
-1660.0
-1670.0
-1680.0
-1690.0
-1700.0
-1710.0
-1720.0
-1730.0
-1740.0
-1750.0
-1760.0
-1770.0
-1780.0
-1790.0
-1800.0
-1810.0
-1820.0
-1830.0
-1840.0
-1850.0
-1860.0
-1870.0
-1880.0
-1890.0
-1900.0
-1910.0
-1920.0
-1930.0
-1940.0
-1950.0
-1960.0
-1970.0
-1980.0
-1990.0
-2000.0
-2010.0
-2020.0
-2030.0
-2040.0
-2050.0
-2060.0
-2070.0
-2080.0
-2090.0
-2100.0
-2110.0
-2120.0
-2130.0
-2140.0
-2150.0
-2160.0
-2170.0
-2180.0
-2190.0
-2200.0
-2210.0
-2220.0
-2230.0
-2240.0
-2250.0
-2260.0
-2270.0
-2280.0
-2290.0
-2300.0
-2310.0
-2320.0
-2330.0
-2340.0
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-2360.0
-2370.0
-2380.0
-2390.0
-2400.0
-2410.0
-2420.0
-2430.0
-2440.0
-2450.0
-2460.0
-2470.0
-2480.0
-2490.0
-2500.0
-2510.0
-2520.0
-2530.0
-2540.0
-2550.0
-2560.0
-2570.0
-2580.0
-2590.0
-2600.0
-2610.0
-2620.0
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-2640.0
-2650.0
-2660.0
-2670.0
-2680.0
-2690.0
-2700.0
-2710.0
-2720.0
-2730.0
-2740.0
-2750.0
-2760.0
-2770.0
-2780.0
-2790.0
-2800.0
-2810.0
-2820.0
-2830.0
-2840.0
-2850.0
-2860.0
-2870.0
-2880.0
-2890.0
-2900.0
-2910.0
-2920.0
-2930.0
-2940.0
-2950.0
-2960.0
-2970.0
-2980.0
-2990.0
-3000.0
-3010.0
-3020.0
-3030.0
-3040.0
-3050.0
-3060.0
-3070.0
-3080.0
-3090.0
-3100.0
-3110.0
-3120.0
-3130.0
-3140.0
-3150.0
-3160.0
-3170.0
-3180.0
-3190.0
-3200.0
-3210.0
-3220.0
-3230.0
-3240.0
-3250.0
-3260.0
-3270.0
-3280.0
-3290.0
-3300.0
-3310.0
-3320.0
-3330.0
-3340.0
-3350.0
-3360.0
-3370.0
-3380.0
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-3480.0
-3490.0
-3500.0
-3510.0
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-3570.0
-3580.0
-3590.0
-3600.0
-3610.0
-3620.0
-3630.0
-3640.0
-3650.0
-3660.0
-3670.0
-3680.0
-3690.0
-3700.0
-3710.0
-3720.0
-3730.0
-3740.0
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-3760.0
-3770.0
-3780.0
-3790.0
-3800.0
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-3820.0
-3830.0
-3840.0
-3850.0
-3860.0
-3870.0
-3880.0
-3890.0
-3900.0
-3910.0
-3920.0
-3930.0
-3940.0
-3950.0
-3960.0
-3970.0
-3980.0
-3990.0
-4000.0
-4010.0
-4020.0
-4030.0
-4040.0
-4050.0
-4060.0
-4070.0
-4080.0
-4090.0
-4100.0
-4110.0
-4120.0
-4130.0
-4140.0
-4150.0
-4160.0
-4170.0
-4180.0
-4190.0
-4200.0
-4210.0
-4220.0
-4230.0
-4240.0
-4250.0
-4260.0
-4270.0
-4280.0
-4290.0
-4300.0
-4310.0
-4320.0
-4330.0
-4340.0
-4350.0

Keysight Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF, Output: OC, Auto: Auto, Input Z: 50 Ω, Core C: C, Freq Ref: 10 (S), #ARef: 40 dB, PNO: Fast, Gate: Off, #F: 0 dB, Low, Avg Type: Power (RMS), A W W W W W, A L L L L L L L

1 Spectrum
Scale/Div: 10 dB, Log, Ref Level: 0.00 dBm, Ref Level: 30.00 dBm

Start 30 MHz, #Res BW 1.0 MHz, Video BW 3.0 MHz, Stop 17.800 GHz, Sweep 32.0 MS/s (400001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	F	7.1716 GHz	21.77 dBm		
2	N	1	F	7.7937 GHz	-37.59 dBm		
3							
4							
5							
6							

Spectrum Analyzer 1
Sweep SA

KEYSTREAM
Input RF: **Linearing DC**
Align: **Auto**

Input Z: 50.0
Cen Freq: 3.856 GHz
Freq Ref: Int (S)

Attenuation: 40 dB

PHN0 Fast Gate: Off
IF Gain: Low
Sig Track: Off

Avg Type: Power (RMS)
Averaging: 100/100
Trigger: Free Run

1 2 3 4 5 6
A W W W W W
A N N N N N

1 Spectrum
Scale/Div: 10 dB
Log
Ref Level Offset: 8.00 dBm
Rel Level: 30.0 dBm

Start: 30 MHz
#Res: BW 1.0 MHz

Video BW: 3.0 MHz

Stop: 17.8 GHz
Sweep: 32.0 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.743 0 GHz	22.14 dBm		
2	N	1	f	3.856 1 GHz	-37.79 dBm		
3							
4							
5							
6							

Dec 29, 2023
5:47:38 PM

Keysight Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF, Algorithm: DC, Algo: Auto, ImpZ: 50.0 Ω, Corr: Corr, Span: 40.0 dB, PNO: Fast, Gate: Off, Avg Type: Power (RMS), Averages: 100100, Ref: Ref, Low: Low, Sig Track: Off, Top Free Run, A W W W W W, A N N N N N

1 Spectrum
Scale/Div 10 dB
Log
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
-140
-150
-160
-170
-180
-190
-200
-210
-220
-230
-240
-250
-260
-270
-280
-290
-300
-310
-320
-330
-340
-350
-360
-370
-380
-390
-400
-410
-420
-430
-440
-450
-460
-470
-480
-490
-500
-510
-520
-530
-540
-550
-560
-570
-580
-590
-600
-610
-620
-630
-640
-650
-660
-670
-680
-690
-700
-710
-720
-730
-740
-750
-760
-770
-780
-790
-800
-810
-820
-830
-840
-850
-860
-870
-880
-890
-900
-910
-920
-930
-940
-950
-960
-970
-980
-990
-1000
-1010
-1020
-1030
-1040
-1050
-1060
-1070
-1080
-1090
-1100
-1110
-1120
-1130
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-1170
-1180
-1190
-1200
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-3990
-4000
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-4380
-4390
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-5000
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-5340
-5350
-5360
-5370
-5380
-5390
-5400
-5410
-5420
-5430
-5440
-5450
-5460
-5470
-5480
-5490
-5500
-5510
-5520
-5530
-5540

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF
R T → Creating DC
Align: Auto

Input Z: 50 Ω
Corr CCOR
Freq Ref: Int (S)

Span: 40 dB

PNIO Fast
Gate: Off
S' Gain: Low
Sig Track: Off

Avg Type: Power (RMS)
AmpHold: 100.00
Trig: Free Run

1 2 3 4 5 6
A W W W W W
A N N N N N

1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 8.00 dB
Ref Level 30.00 dBm
Mkr2: 3.8079 GHz
-38.250 dBm
DS1-13 dBm

Start 30 MHz
#Res BW 1.0 MHz
Video BW 3.0 MHz*
Stop 17.000 GHz
Sweep 32.0 ms /40001 pts

S Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.775 GHz	21.49 dBm		
2	N	1	f	3.807 GHz	-38.25 dBm		
3							
4							
5							
6							

Dec 29, 2020
8:58:59 PM

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input RF
R T → Assigning DC
AVX Auto

Input Z: 50 Ω
Cen Freq: 100 MHz
Freq Ref: 1st (S)

Span: 40 dB

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

Avg Type: Power (RMS)
AmpHold: 100.00
Trap: Free Run

Mkr1: 3.795 GHz
Mkr2: 3.795 GHz
-38.294 dBm

Scale/DW: 10 dB

Start: 30 MHz
Stop: 17.800 GHz
PRes BW: 1.0 MHz
Sweep: 32.0 ms (40001 pts)

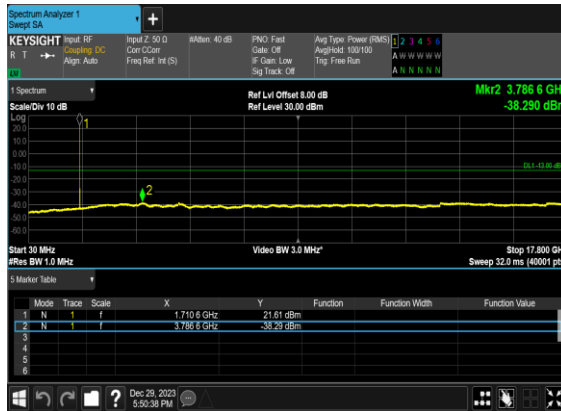
Video BW: 3.0 MHz

Ref Lvl: 8.00 dBm
Ref Level: 30.00 dBm

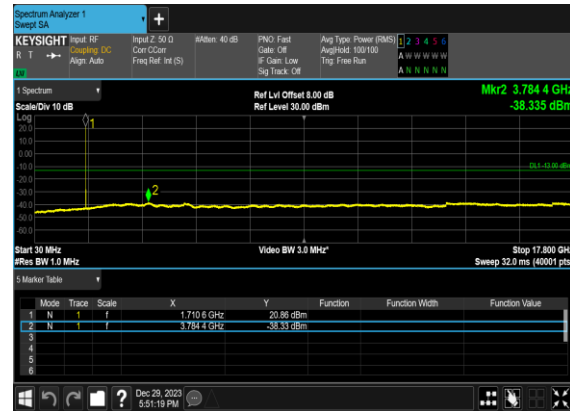
Marker 1 at ~3.795 GHz, -38.294 dBm

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.775 GHz	21.15 dBm		
2	N	1	f	3.795 GHz	-38.29 dBm		
3	N	1	f				
4	N	1	f				
5	N	1	f				

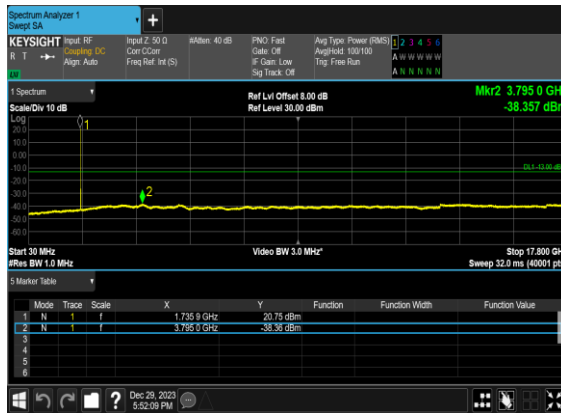
B5_N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



B5_N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



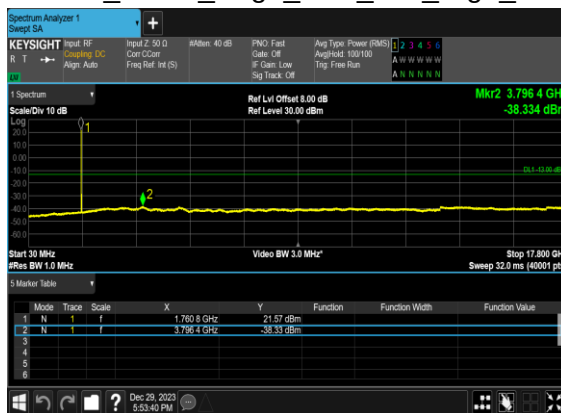
B5_N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B5_N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



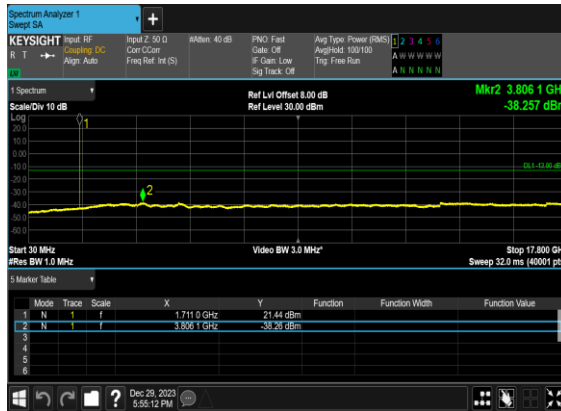
B5_N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



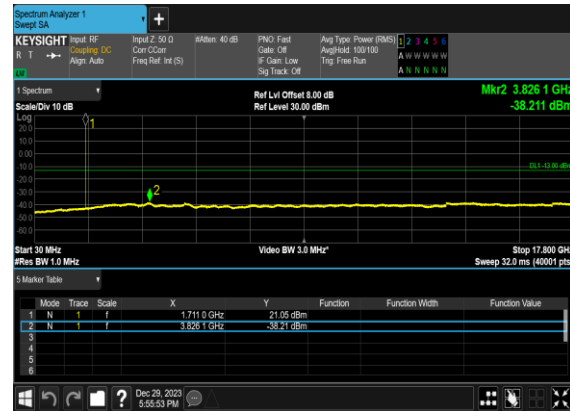
B5_N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



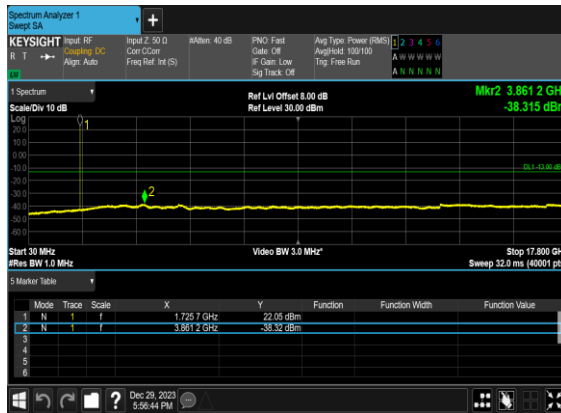
B5_N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



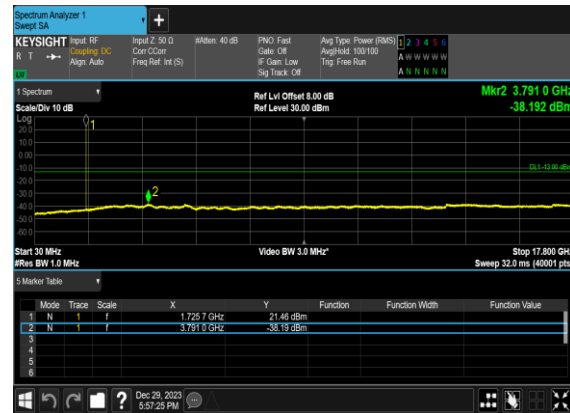
B5_N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



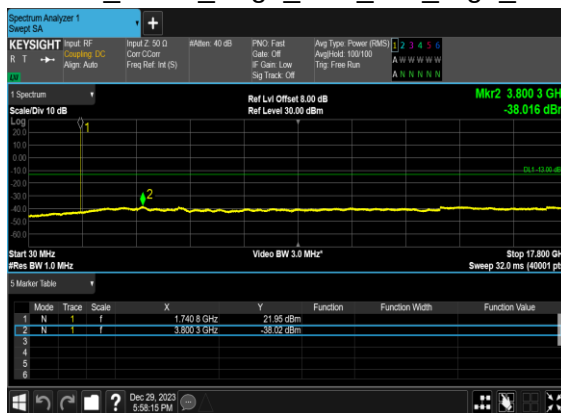
B5_N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



B5_N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



B5_N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



B5_N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	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	40	346000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	346000	1730.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	1@215	see graph	PASS

66	15	40	352000	1760.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	352000	1760.0	DFT-s-OFDM QPSK	216@0	see graph	PASS