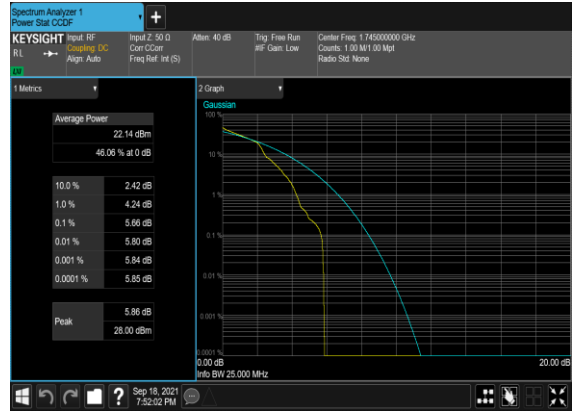


B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N66(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



B7_N66(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
66	15	5	429000	1745.0	DFT-s-OFDM PI/2 BPSK	25@0	4.462	4.892
66	15	5	429000	1745.0	DFT-s-OFDM QPSK	25@0	4.4665	4.832
66	15	5	429000	1745.0	CP-OFDM QPSK	25@0	4.4775	4.905
66	15	5	429000	1745.0	CP-OFDM 16 QAM	25@0	4.4768	4.91
66	15	5	429000	1745.0	CP-OFDM 64 QAM	25@0	4.4808	4.974
66	15	5	429000	1745.0	CP-OFDM 256 QAM	25@0	4.4697	4.942
66	15	10	429000	1745.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8916	9.462
66	15	10	429000	1745.0	DFT-s-OFDM QPSK	50@0	8.9055	9.492
66	15	10	429000	1745.0	CP-OFDM QPSK	52@0	9.2926	9.985
66	15	10	429000	1745.0	CP-OFDM 16 QAM	52@0	9.2749	9.861
66	15	10	429000	1745.0	CP-OFDM 64 QAM	52@0	9.2733	9.858
66	15	10	429000	1745.0	CP-OFDM 256 QAM	52@0	9.2939	9.931
66	15	15	429000	1745.0	DFT-s-OFDM PI/2 BPSK	75@0	13.395	14.13
66	15	15	429000	1745.0	DFT-s-OFDM QPSK	75@0	13.387	14.15
66	15	15	429000	1745.0	CP-OFDM QPSK	79@0	14.083	14.83
66	15	15	429000	1745.0	CP-OFDM 16 QAM	79@0	14.099	14.85
66	15	15	429000	1745.0	CP-OFDM 64 QAM	79@0	14.091	14.82
66	15	15	429000	1745.0	CP-OFDM 256 QAM	79@0	14.115	14.83
66	15	20	429000	1745.0	DFT-s-OFDM PI/2 BPSK	100@0	17.863	18.75
66	15	20	429000	1745.0	DFT-s-OFDM QPSK	100@0	17.862	18.74
66	15	20	429000	1745.0	CP-OFDM QPSK	106@0	18.916	19.8
66	15	20	429000	1745.0	CP-OFDM 16 QAM	106@0	18.938	19.9
66	15	20	429000	1745.0	CP-OFDM 64 QAM	106@0	18.919	19.76
66	15	20	429000	1745.0	CP-OFDM 256 QAM	106@0	18.93	19.81

B7_N66(5M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



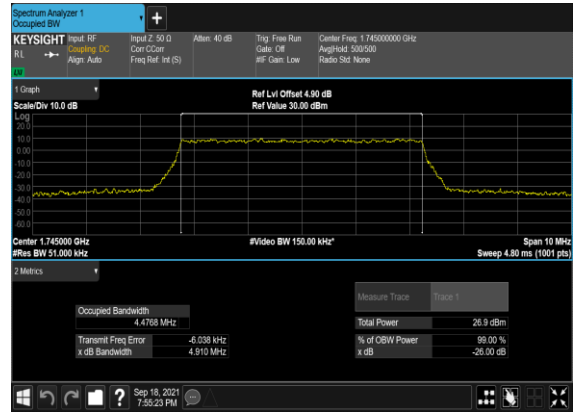
B7_N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



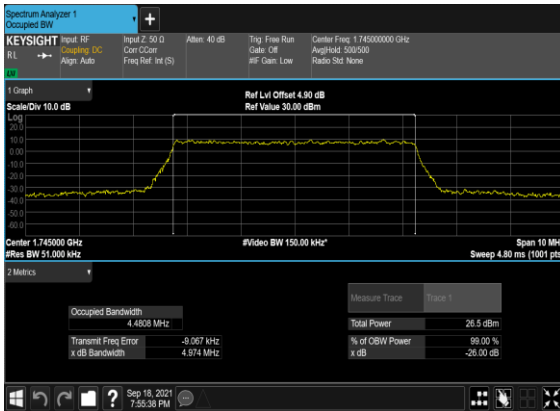
B7_N66(5M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



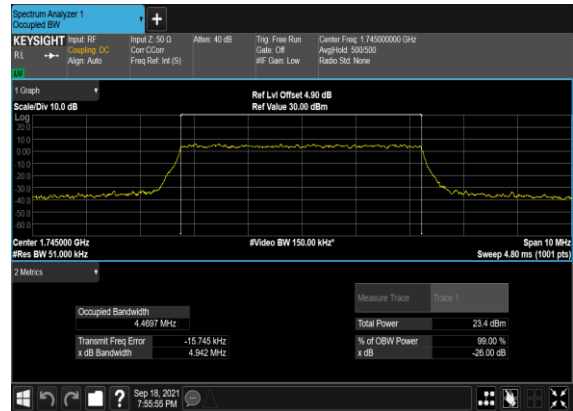
B7_N66(5M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



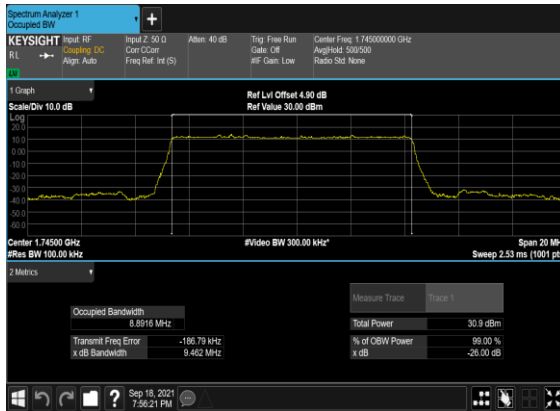
B7_N66(5M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



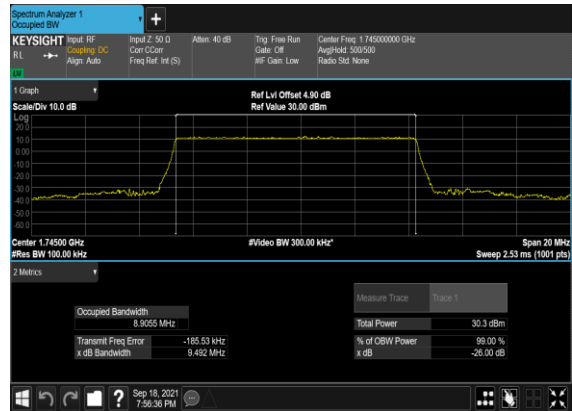
B7_N66(5M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



B7_N66(10M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



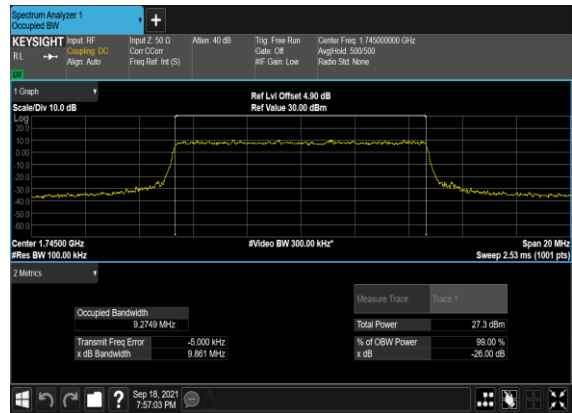
B7_N66(10M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



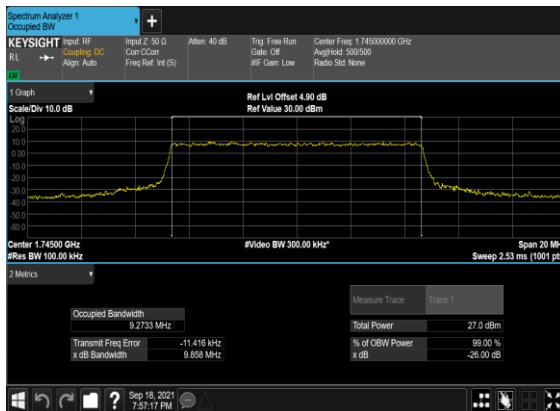
B7_N66(10M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



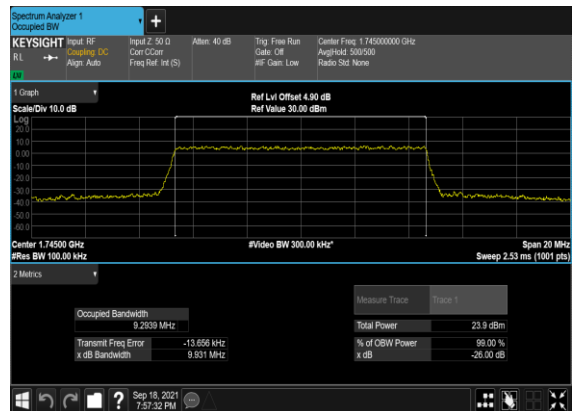
B7_N66(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



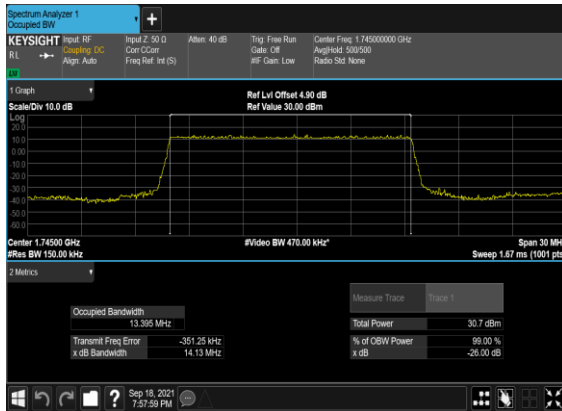
B7_N66(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



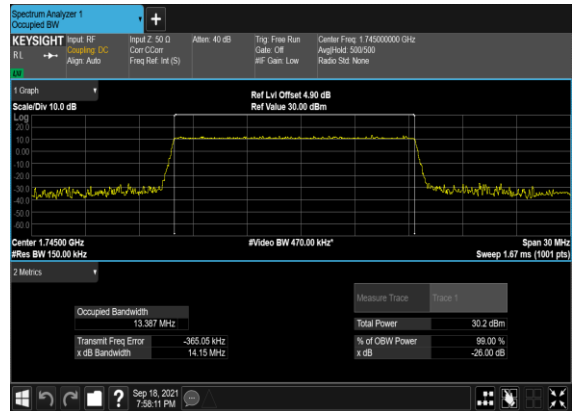
B7_N66(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



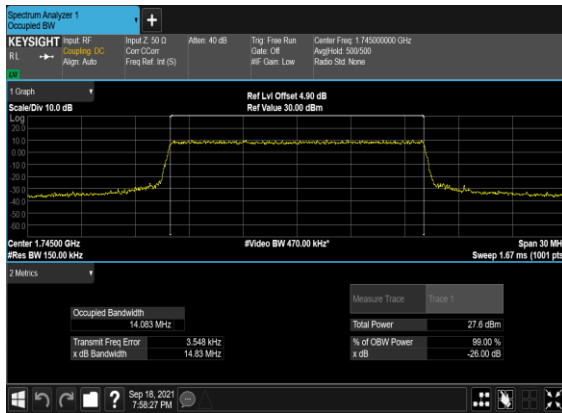
B7_N66(15M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



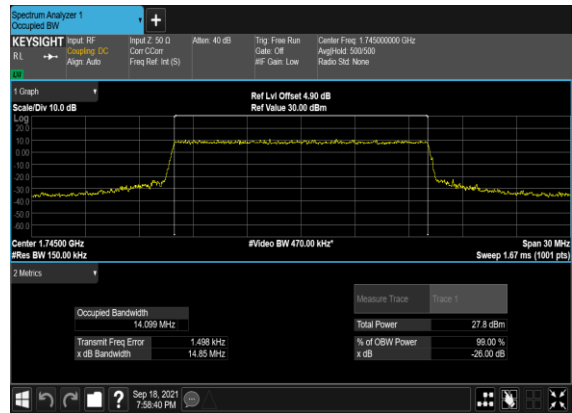
B7_N66(15M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



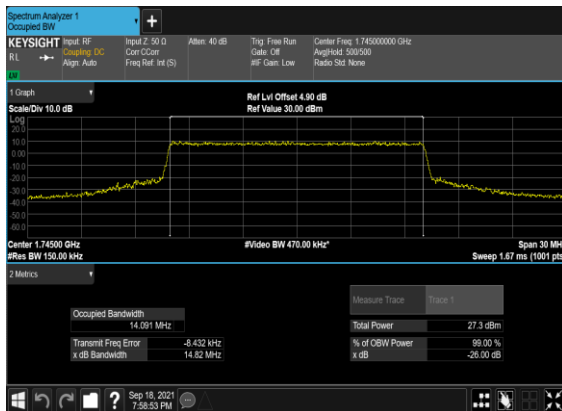
B7_N66(15M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



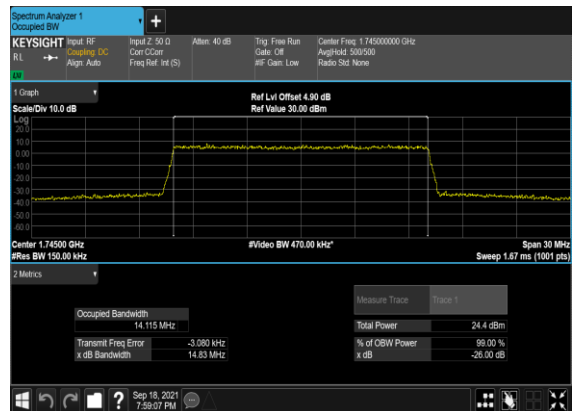
B7_N66(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



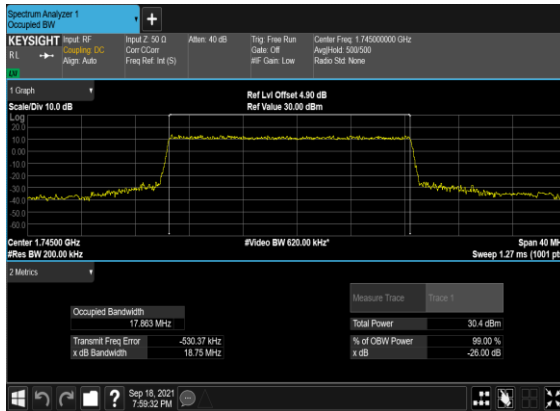
B7_N66(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



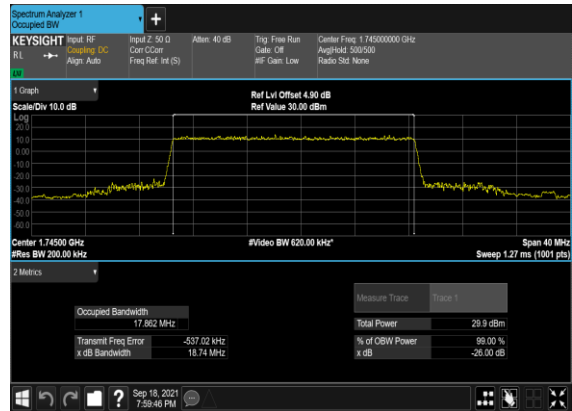
B7_N66(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



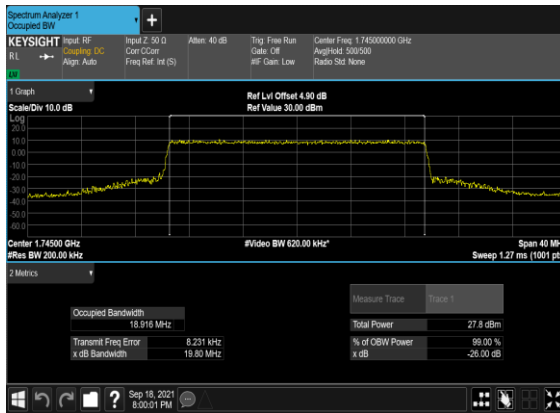
B7_N66(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B7_N66(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



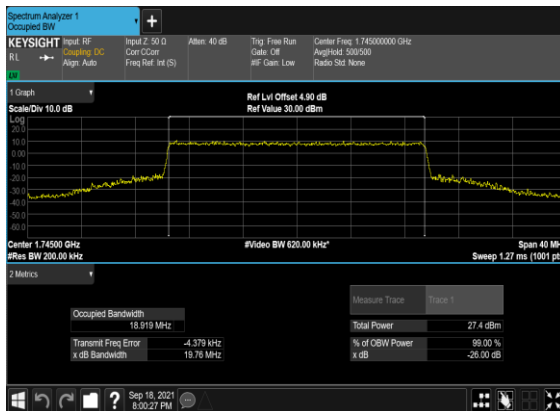
B7_N66(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



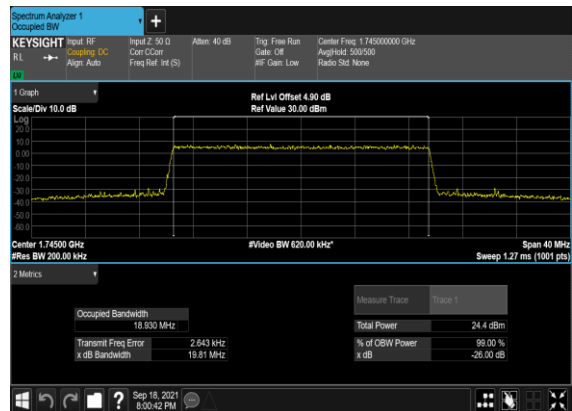
B7_N66(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



B7_N66(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B7_N66(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

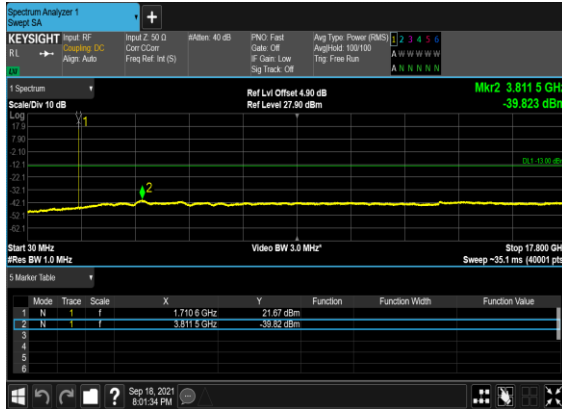


Conducted Spurious Emissions

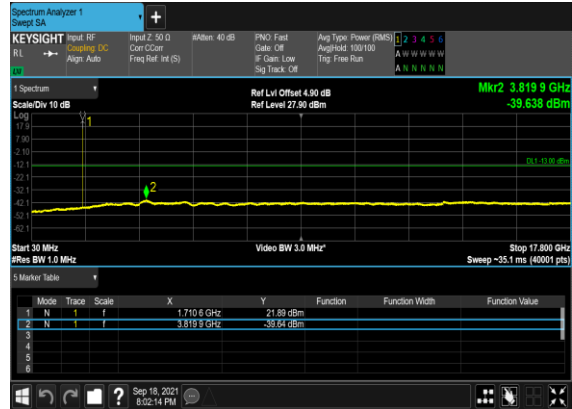
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	10	423000	1715.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	10	423000	1715.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	10	423000	1715.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	10	423000	1715.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	10	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	10	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	10	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	10	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	10	435000	1775.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	10	435000	1775.0	DFT-s-OFDM BPSK	1@0	see graph	PASS

66	15	10	435000	1775.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	10	435000	1775.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

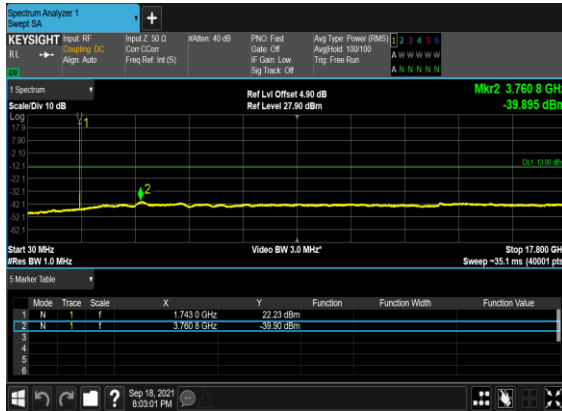
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



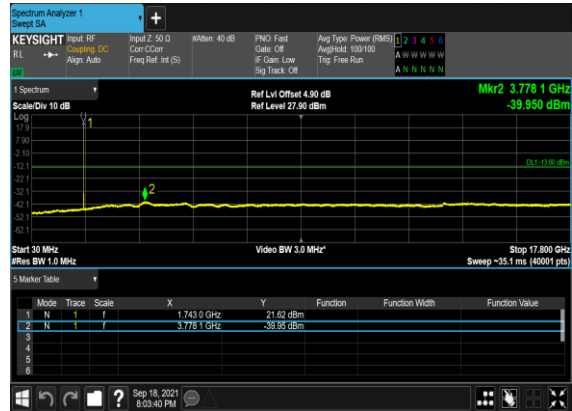
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



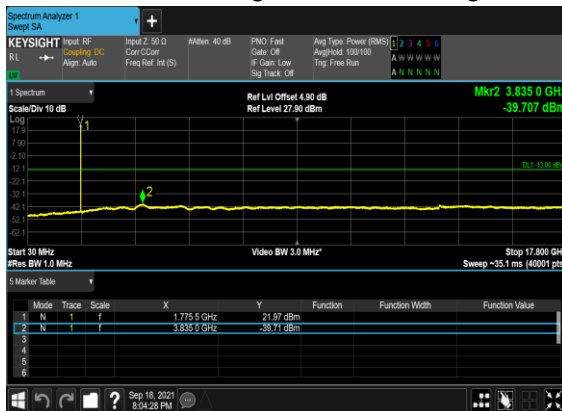
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



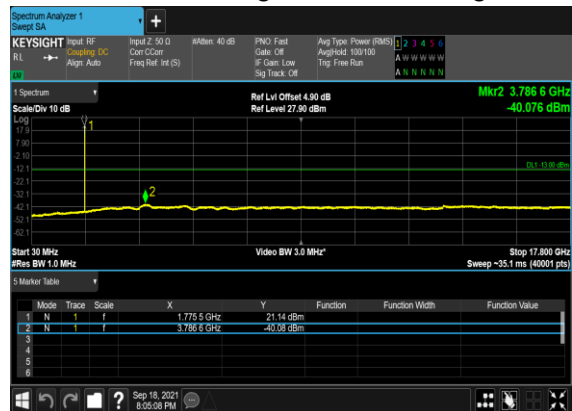
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



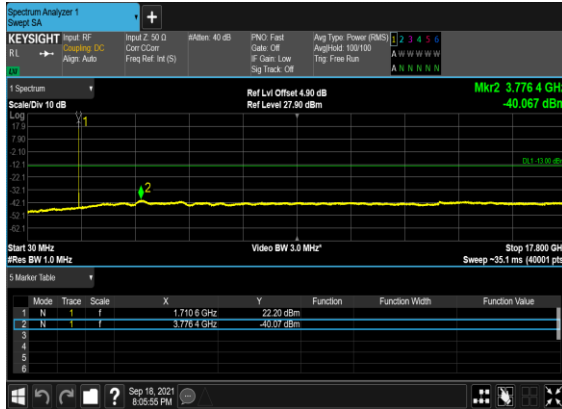
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



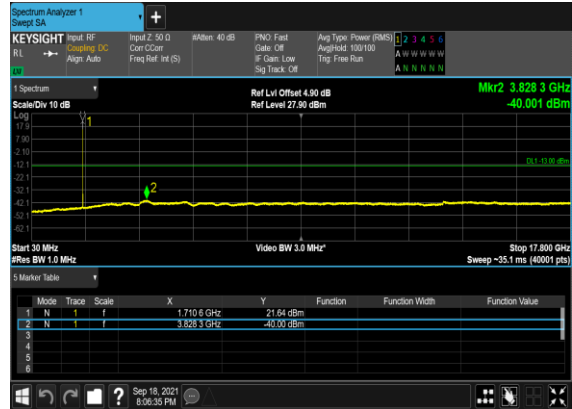
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



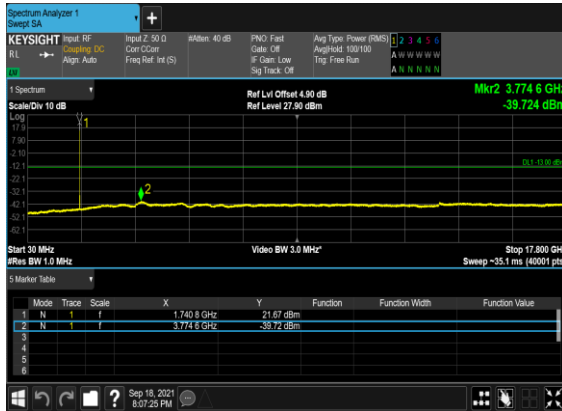
B7_N66(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



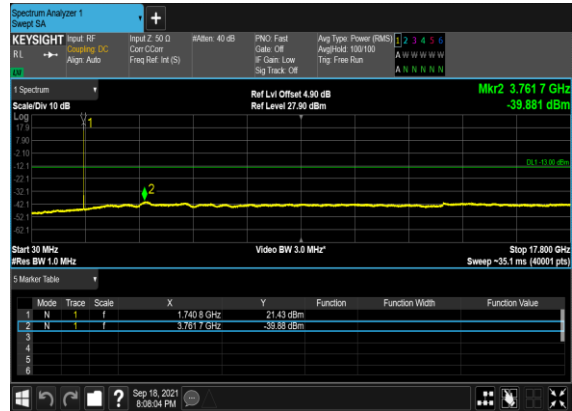
B7_N66(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



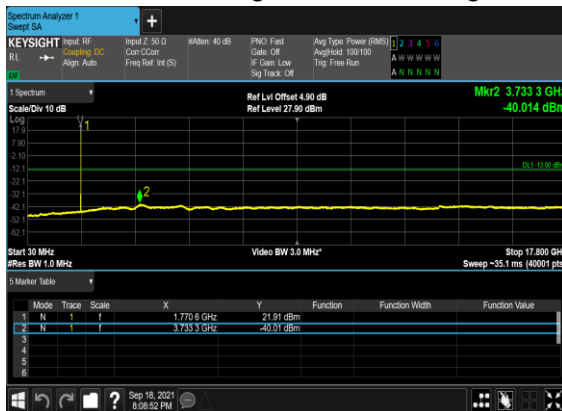
B7_N66(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



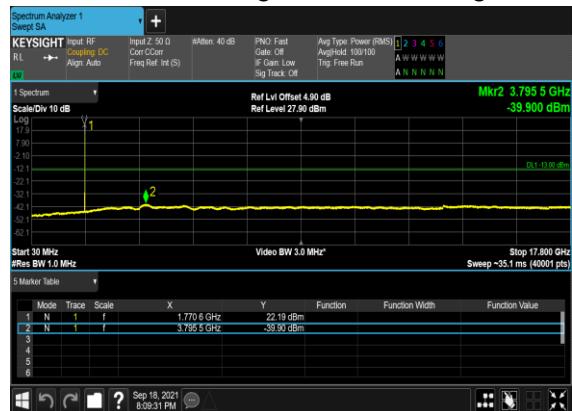
B7_N66(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



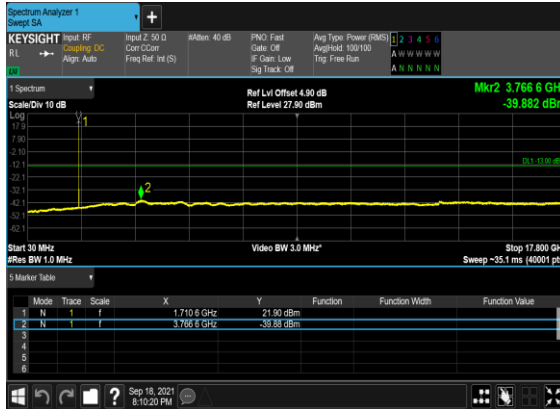
B7_N66(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



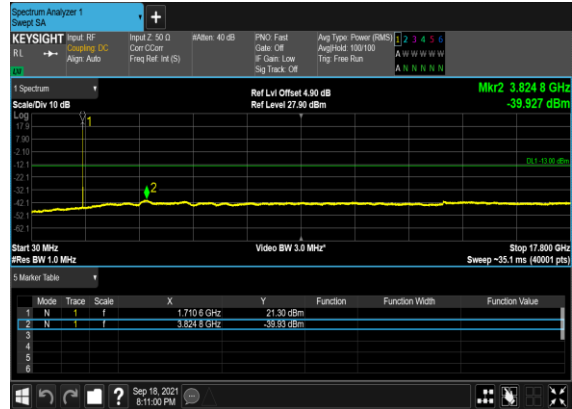
B7_N66(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



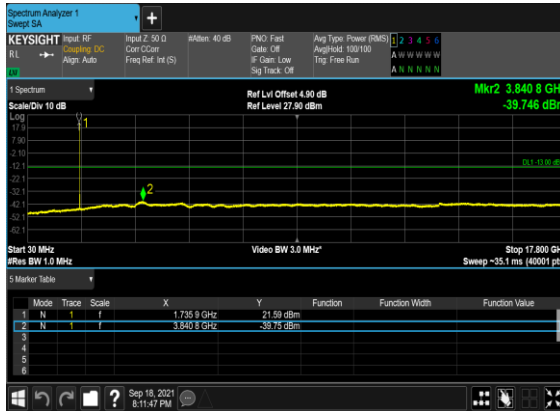
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



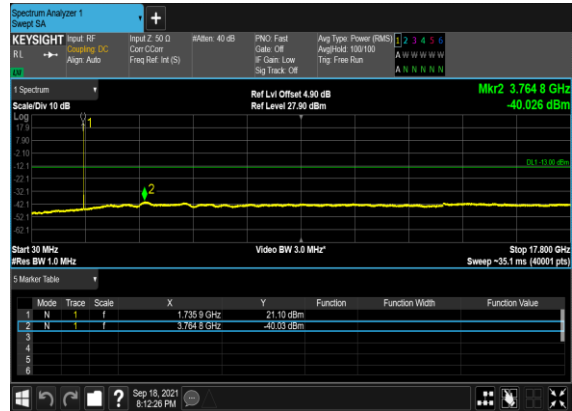
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



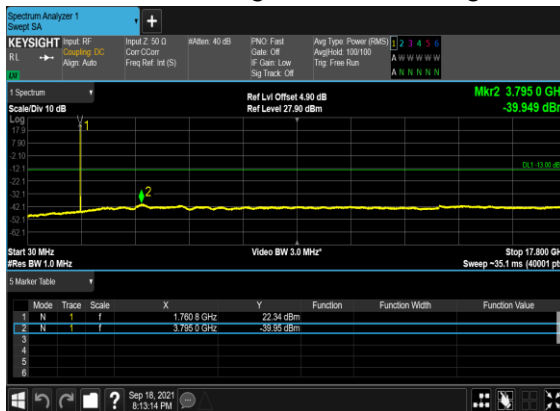
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



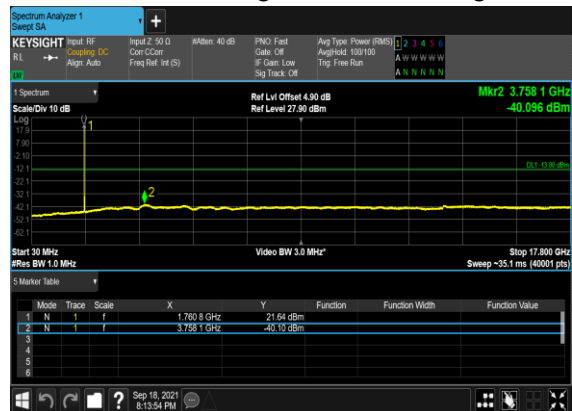
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

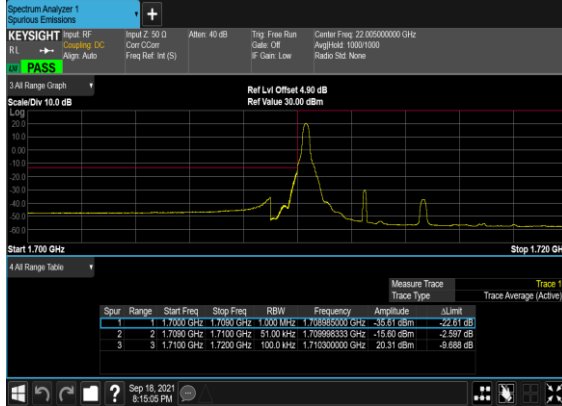


Conducted Band Edge

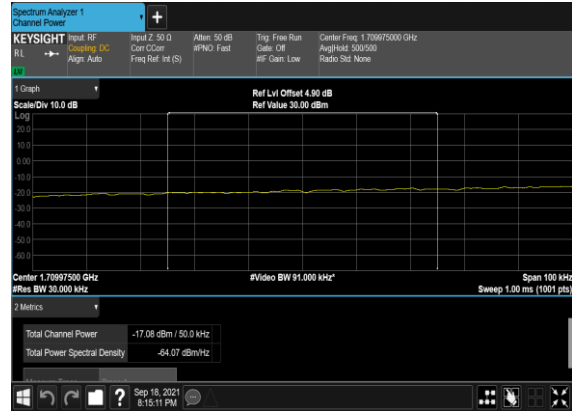
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
66	15	5	435500	1777.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
66	15	10	423000	1715.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	10	423000	1715.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	10	423000	1715.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
66	15	10	423000	1715.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
66	15	10	435000	1775.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
66	15	10	435000	1775.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
66	15	10	435000	1775.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
66	15	10	435000	1775.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
66	15	20	424000	1720.0	DFT-s-OFDM QPSK	100@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	1@105	see graph	PASS

66	15	20	434000	1770.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
66	15	20	434000	1770.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

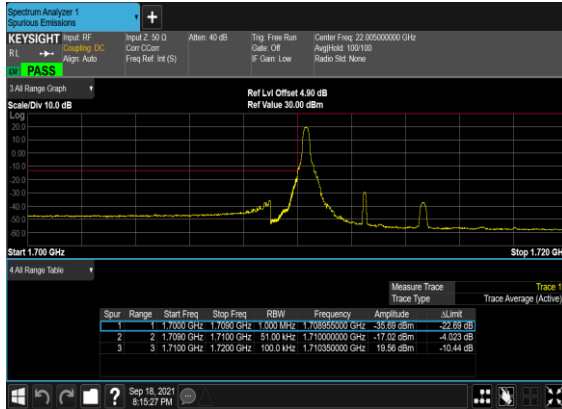
B7_N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



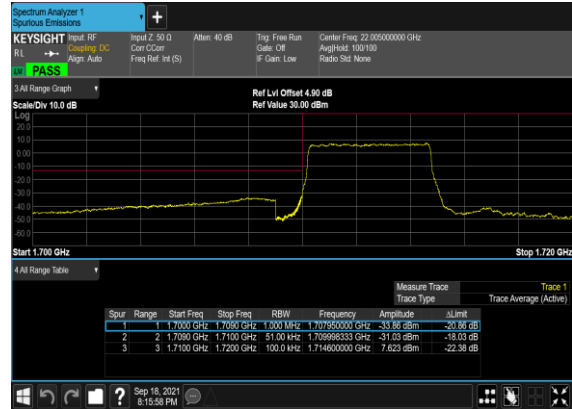
B7_N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_ PASS



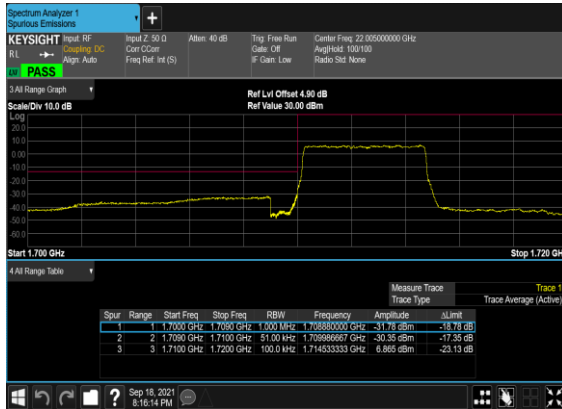
B7_N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



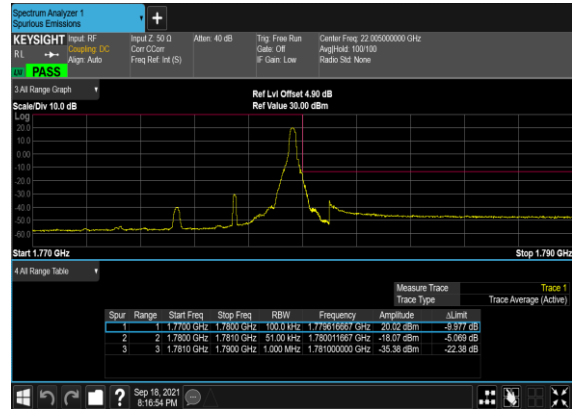
B7_N66(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



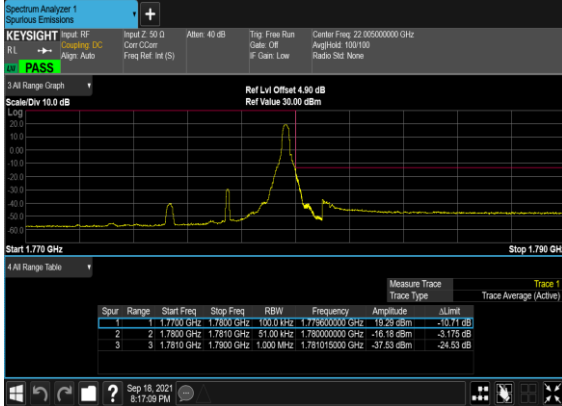
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OFDM_QPSK_Outer_Full_Low_CH



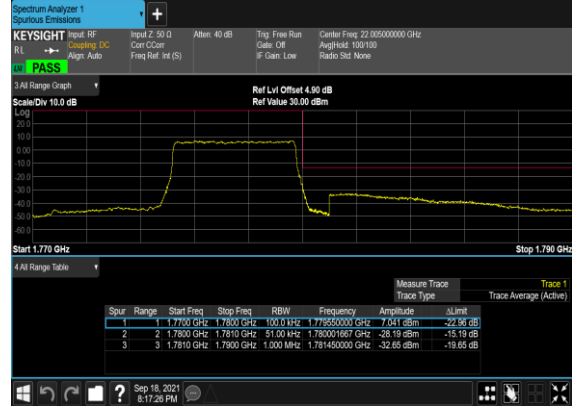
B7_N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



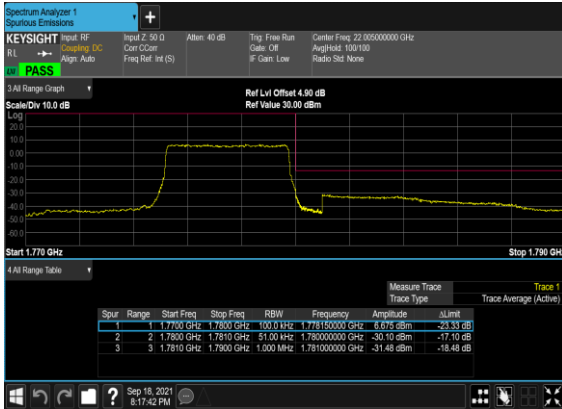
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OFDM_QPSK_Edge_1RB_Right_High_CH



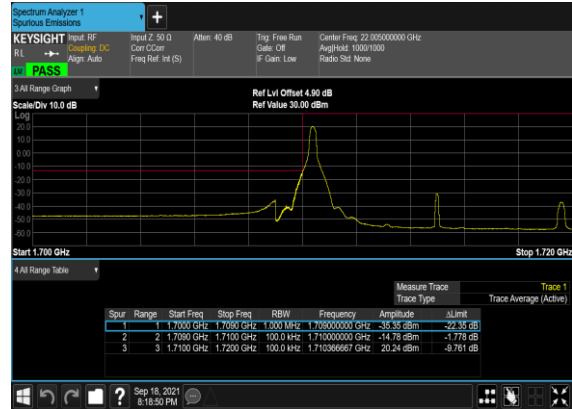
B7_N66(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



B7_N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



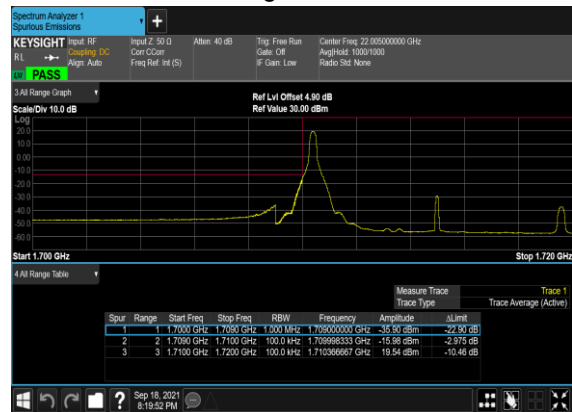
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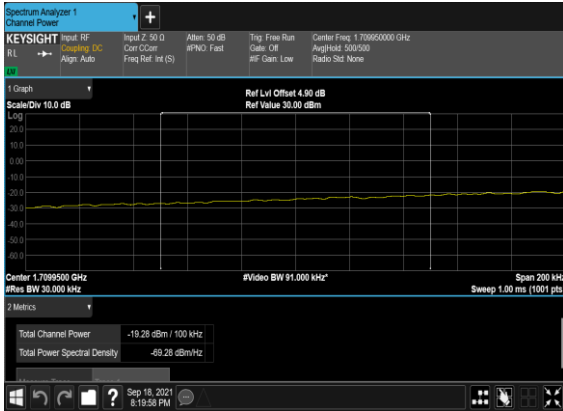
B7_N66(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_P
ASS



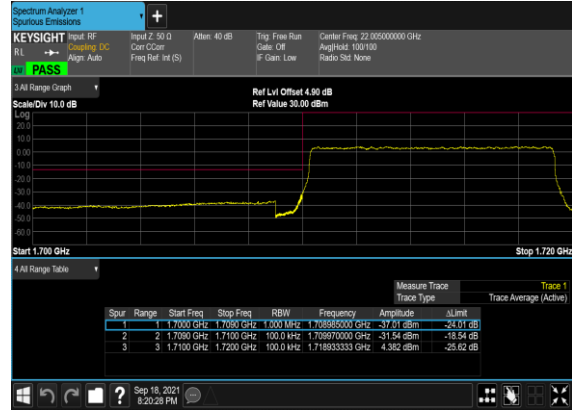
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OFDM_QPSK_Edge_1RB_Left_Low_CH



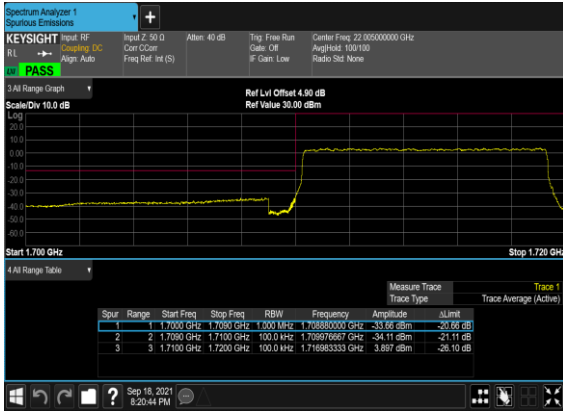
B7_N66(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_PASS



B7_N66(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



B7_N66(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B7_N66(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



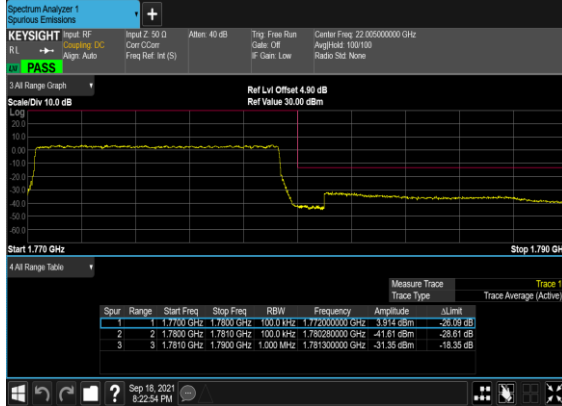
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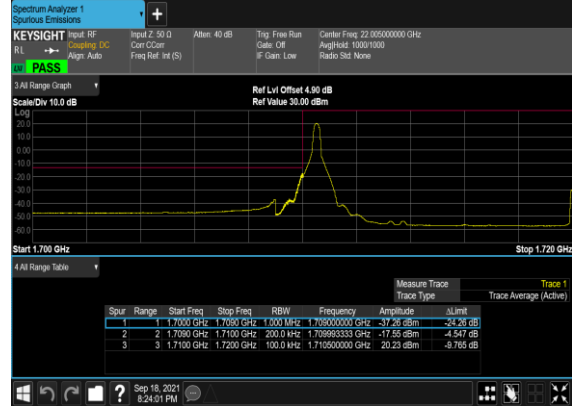
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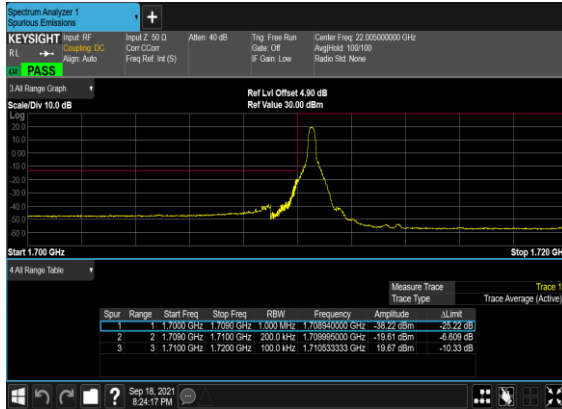
B7_N66(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



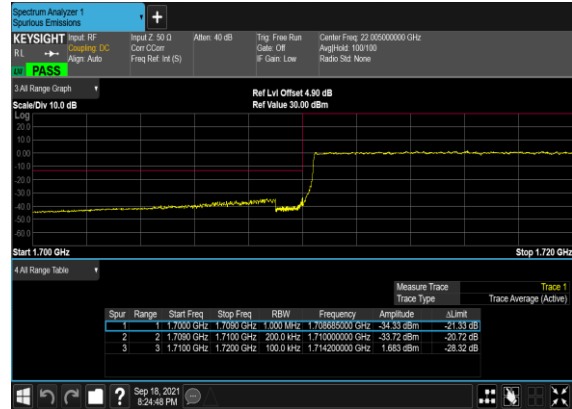
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



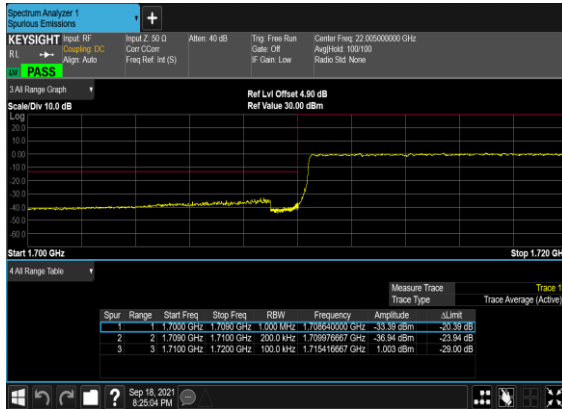
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



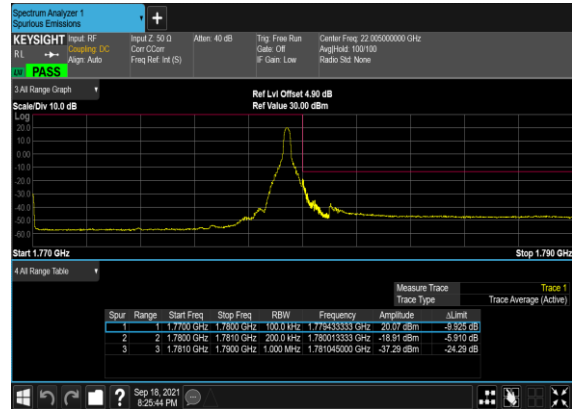
B7_N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



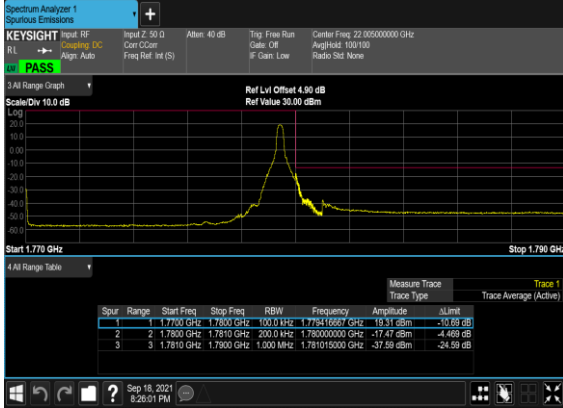
B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



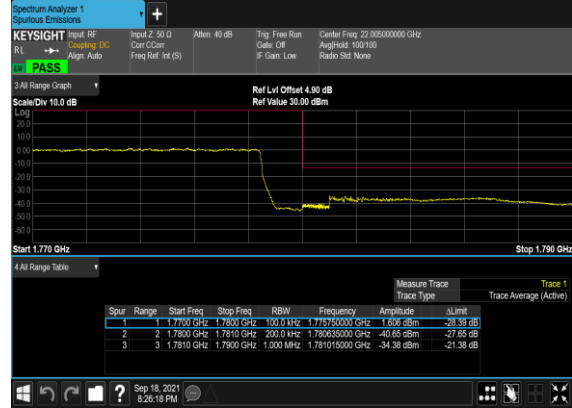
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

EN-DC_7A_n5A / LTE 20MHz + NR 20MHz / DFTs OFDM-QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Middle	1654.5	-63.65	-13	-50.65	-75.21	-66.90	4.00	9.40	H
	2481.75	-56.67	-13	-43.67	-75.31	-60.24	4.88	10.60	H
	3309	-56.69	-13	-43.69	-77.57	-61.62	5.52	12.60	H
	1654.5	-62.81	-13	-49.81	-75.01	-66.06	4.00	9.40	V
	2481.75	-57.26	-13	-44.26	-76.22	-60.83	4.88	10.60	V
	3309	-55.75	-13	-42.75	-77.33	-60.68	5.52	12.60	V
LTE Band7 Middle	5052.18	-55.66	-25	-30.66	-78.76	-61.22	7.14	12.70	H
	7578.27	-53.05	-25	-28.05	-79.13	-56.35	8.30	11.60	H
	10104.36	-48.16	-25	-23.16	-78.36	-49.68	10.48	12.00	H
	5052.18	-54.47	-25	-29.47	-78.9	-60.03	7.14	12.70	V
	7578.27	-51.61	-25	-26.61	-77.69	-54.91	8.30	11.60	V
	10104.36	-46.10	-25	-21.10	-77.28	-47.62	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n7A / LTE 20MHz + NR 20MHz / DFTs OFDM-QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n7 Middle	5051.5	-55.54	-25	-30.54	-78.64	-60.94	4.00	9.40	H
	7577.25	-53.59	-25	-28.59	-79.67	-59.31	4.88	10.60	H
	10103	-50.54	-25	-25.54	-80.71	-57.62	5.52	12.60	H
	5051.5	-53.99	-25	-28.99	-78.42	-59.39	4.00	9.40	V
	7577.25	-53.29	-25	-28.29	-79.37	-59.01	4.88	10.60	V
	10103	-49.45	-25	-24.45	-80.55	-56.53	5.52	12.60	V
LTE Band2 Middle	3742.18	-54.71	-13	-41.71	-77.60	-61.46	5.85	12.60	H
	5613.27	-54.97	-13	-41.97	-79.25	-60.77	7.30	13.10	H
	7484.36	-53.31	-13	-40.31	-79.77	-56.46	8.35	11.50	H
	3742.18	-52.38	-13	-39.38	-77.28	-59.13	5.85	12.60	V
	5613.27	-54.23	-13	-41.23	-79.36	-60.03	7.30	13.10	V
	7484.36	-53.04	-13	-40.04	-79.48	-56.19	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_7A_n66A / LTE 20MHz + NR 20MHz / DFTs OFDM-QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 Middle	3486.5	-56.18	-13	-43.18	-77.91	-63.03	5.65	12.50	H
	5229.75	-54.62	-13	-41.62	-78.89	-60.29	7.13	12.80	H
	6973	-53.84	-13	-40.84	-79.56	-57.24	8.40	11.80	H
	3486.5	-55.00	-13	-42.00	-77.4	-61.85	5.65	12.50	V
	5229.75	-54.51	-13	-41.51	-78.85	-60.18	7.13	12.80	V
	6973	-53.39	-13	-40.39	-79.66	-56.79	8.40	11.80	V
LTE Band7 Middle	5052.18	-55.29	-25	-30.29	-78.39	-60.85	7.14	12.70	H
	7578.27	-53.19	-25	-28.19	-79.27	-56.49	8.30	11.60	H
	10104.36	-47.22	-25	-22.22	-77.42	-48.74	10.48	12.00	H
	5052.18	-54.31	-25	-29.31	-78.74	-59.87	7.14	12.70	V
	7578.27	-53.34	-25	-28.34	-79.42	-56.64	8.30	11.60	V
	10104.36	-47.35	-25	-22.35	-78.53	-48.87	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.