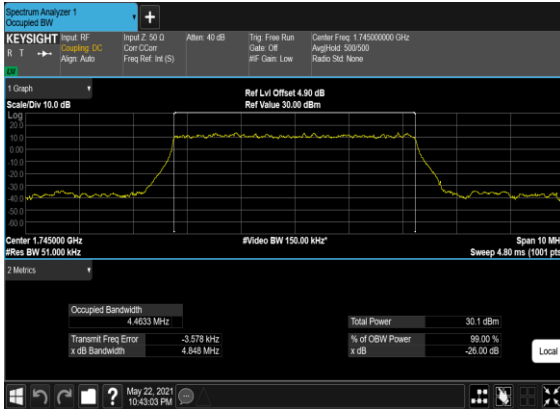
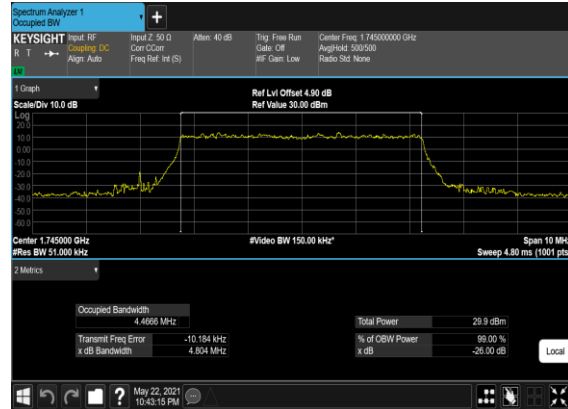


B5_N66(5M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



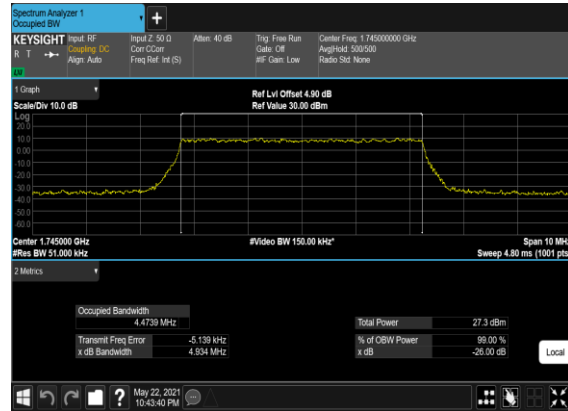
B5_N66(5M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



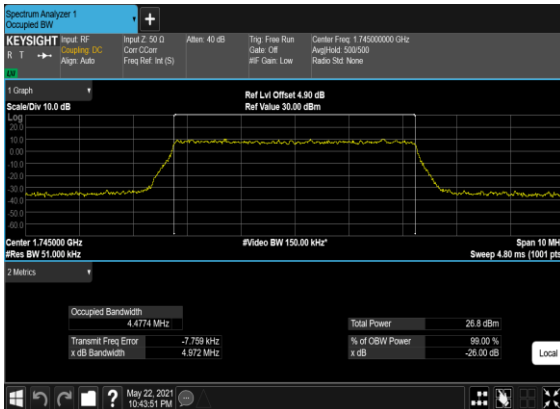
B5_N66(5M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



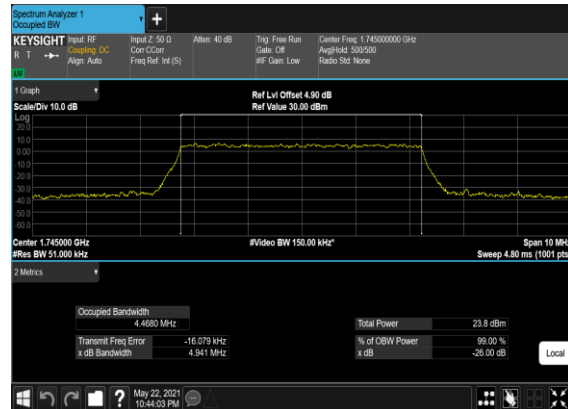
B5_N66(5M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



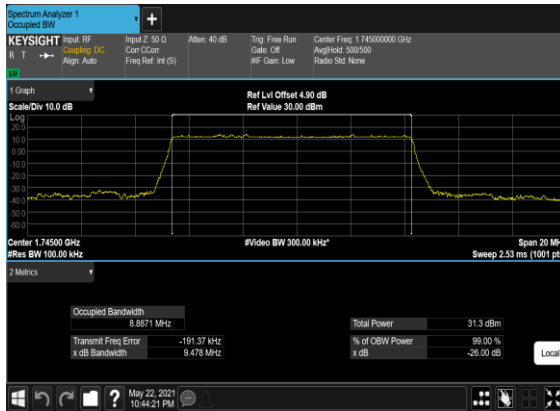
B5_N66(5M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



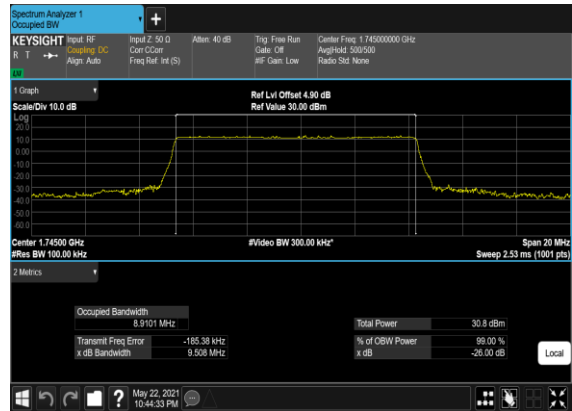
B5_N66(5M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



B5_N66(10M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



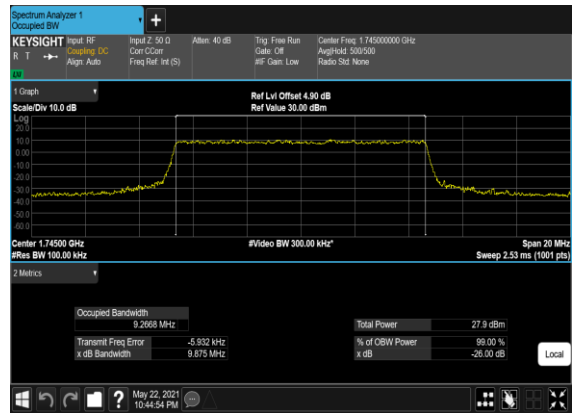
B5_N66(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



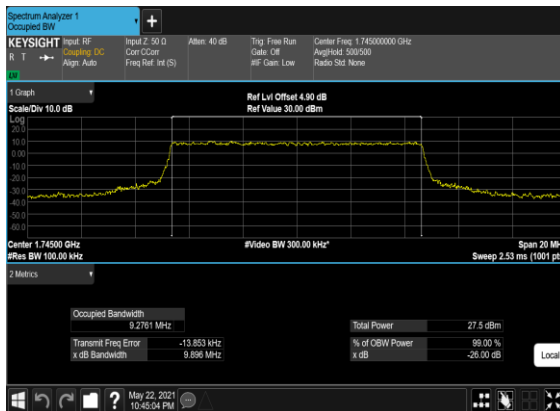
B5_N66(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



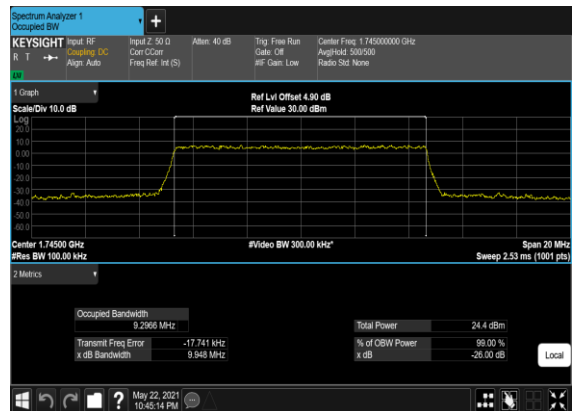
B5_N66(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



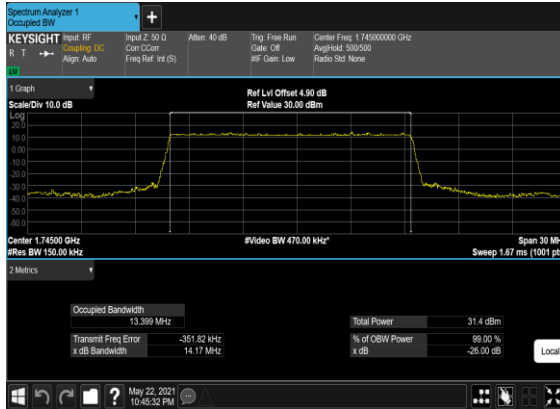
B5_N66(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



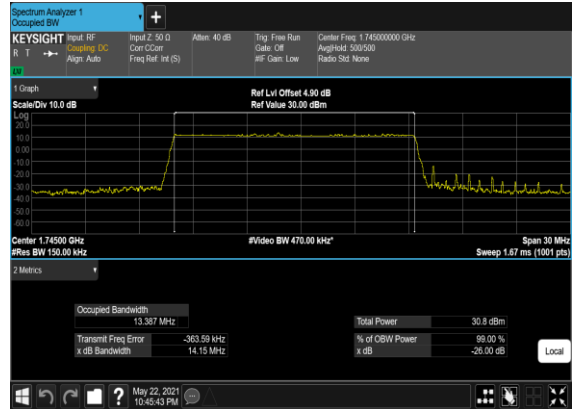
B5_N66(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



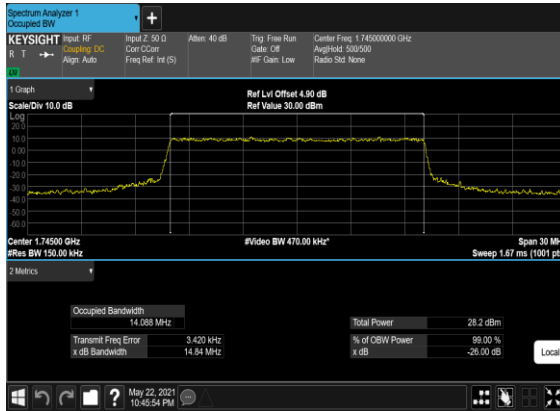
B5_N66(15M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



B5_N66(15M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



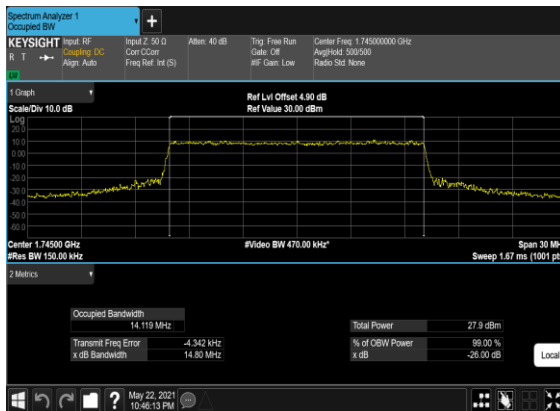
B5_N66(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



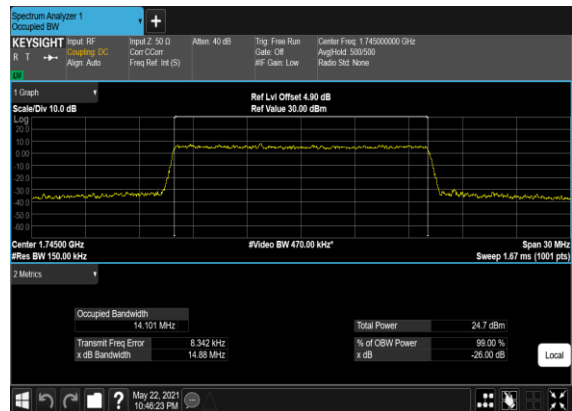
B5_N66(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



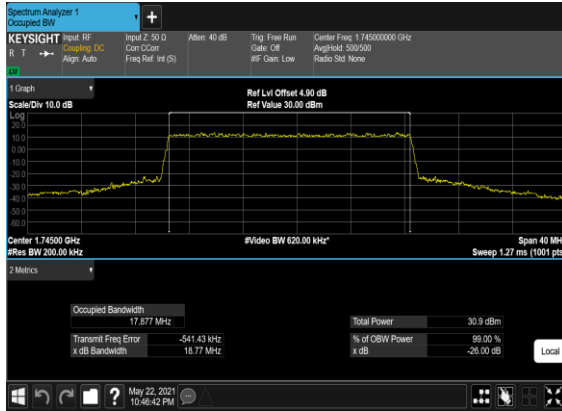
B5_N66(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



B5_N66(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



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



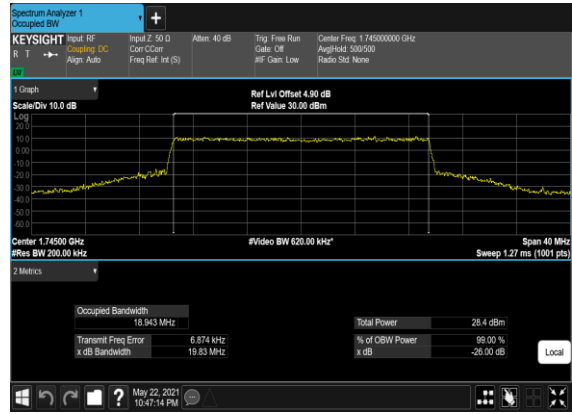
B5_N66(20M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



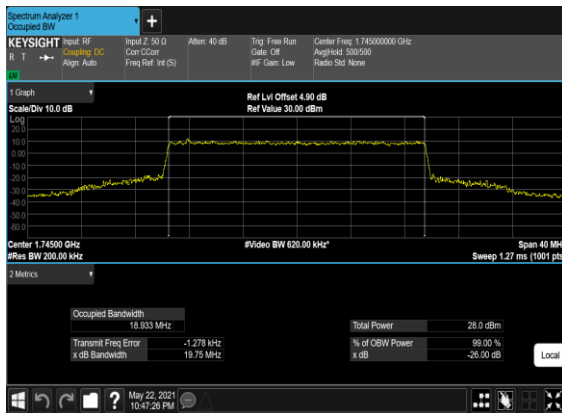
B5_N66(20M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



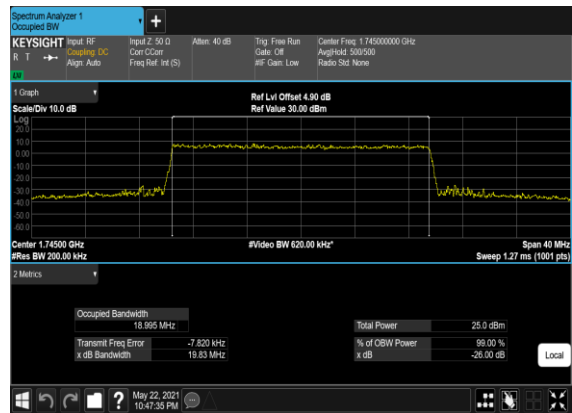
B5_N66(20M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



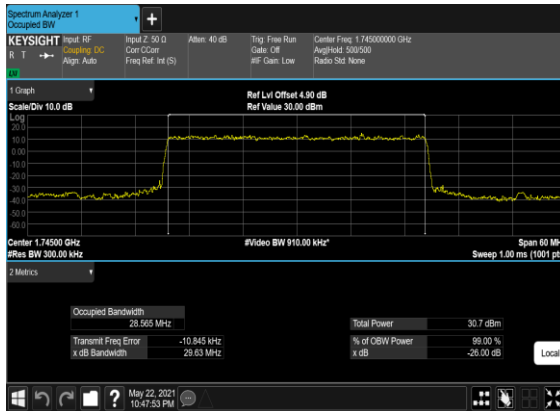
B5_N66(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



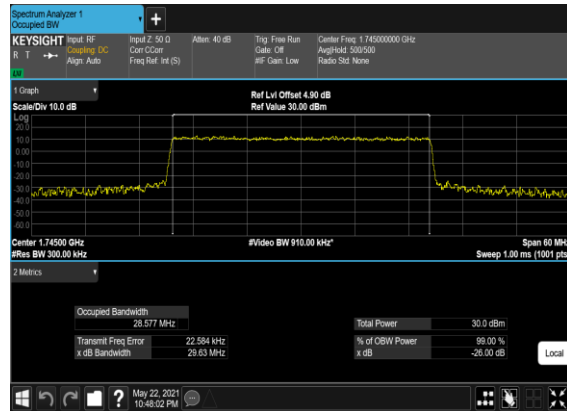
B5_N66(20M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



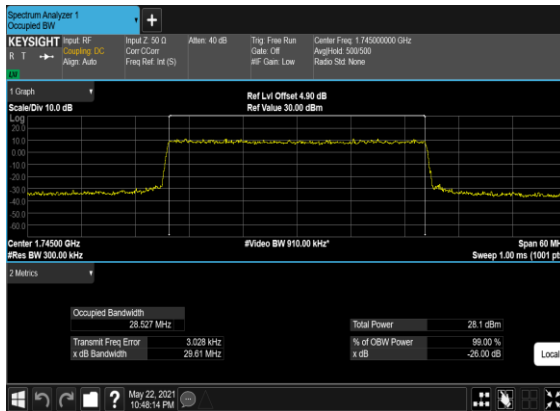
B5_N66(30M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



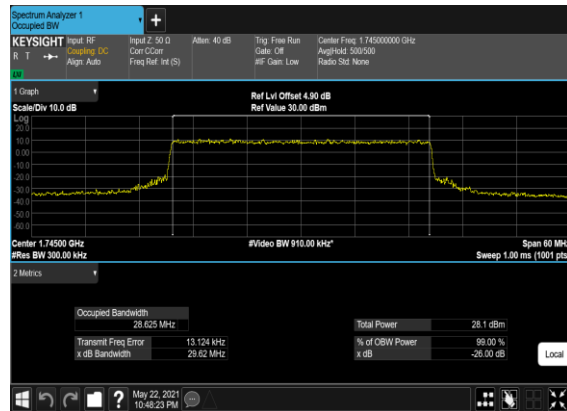
B5_N66(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



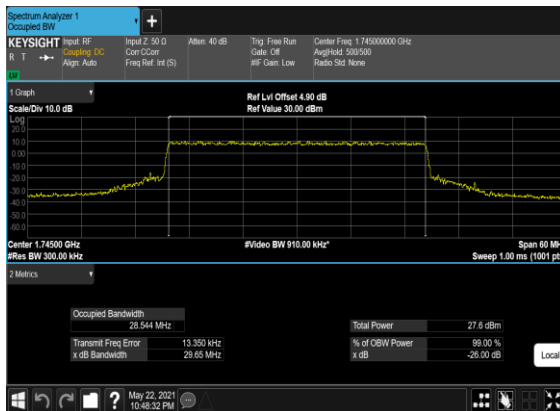
B5_N66(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



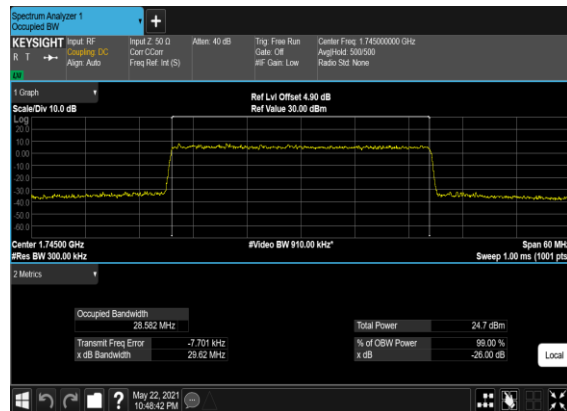
B5_N66(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



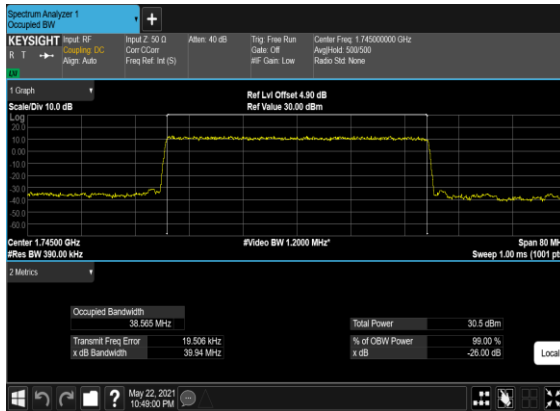
B5_N66(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



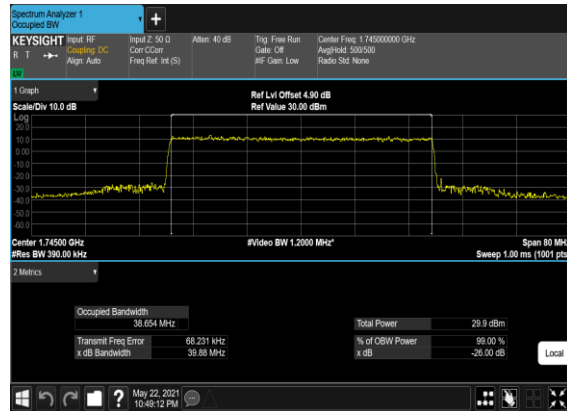
B5_N66(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



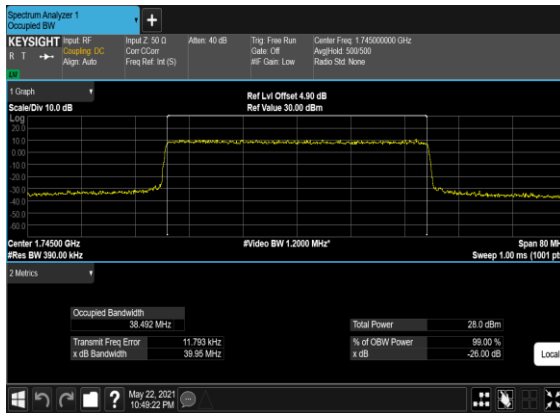
B5_N66(40M)_DFT-s-OFDM_PI_2- BPSK_Outer_Full_Mid_CH



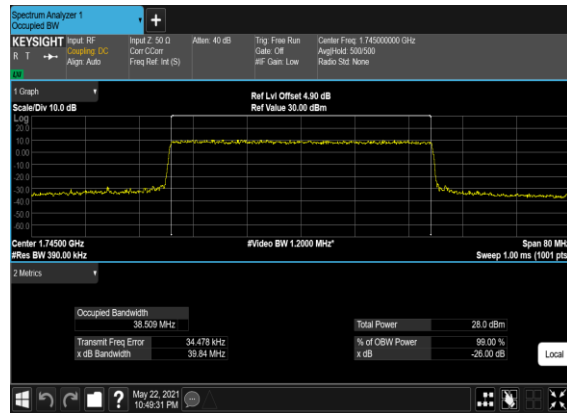
B5_N66(40M)_DFT-s- OFDM_QPSK_Outer_Full_Mid_CH



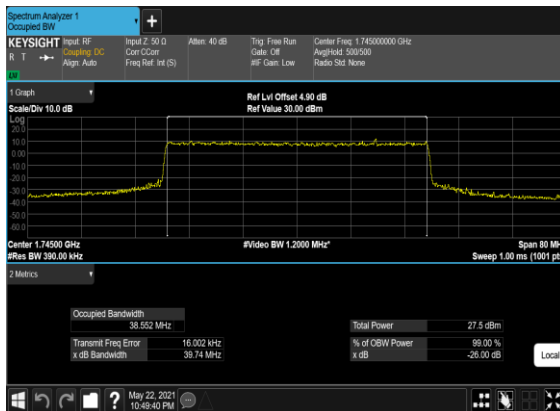
B5_N66(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



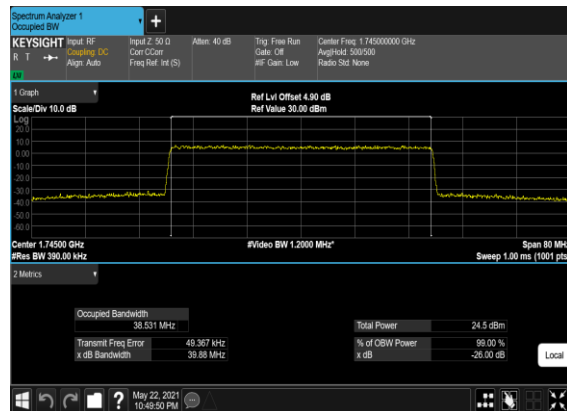
B5_N66(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B5_N66(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B5_N66(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

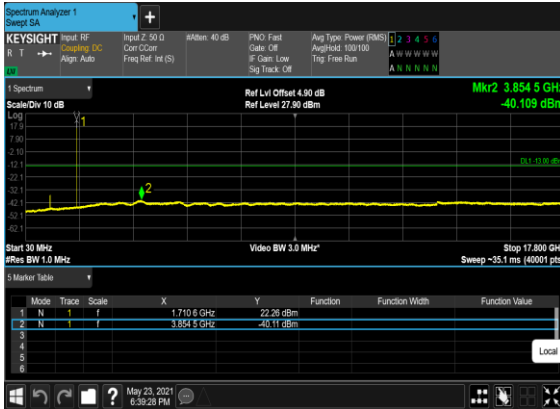


Conducted Spurious Emissions

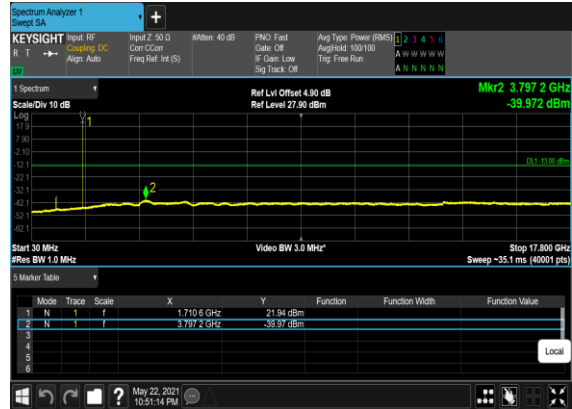
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	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	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
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	429000	1745.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	429000	1745.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	40	432000	1760.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

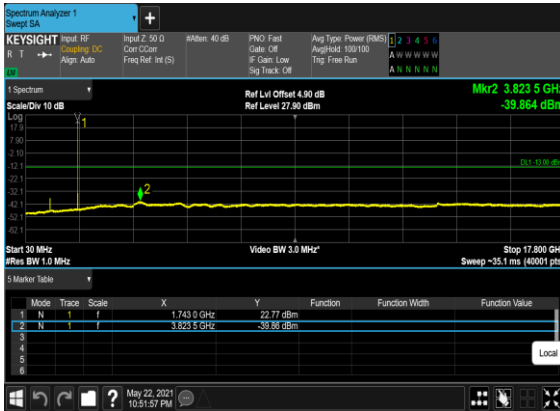
B5_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



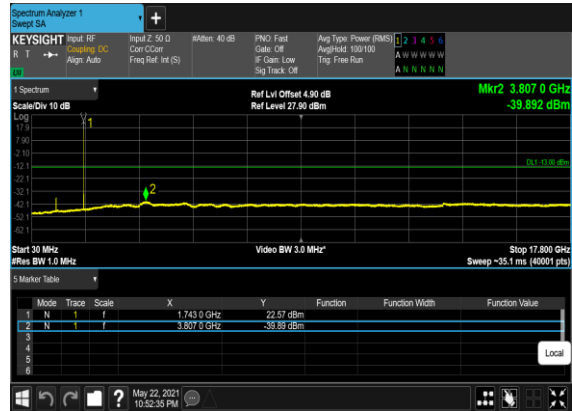
B5_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



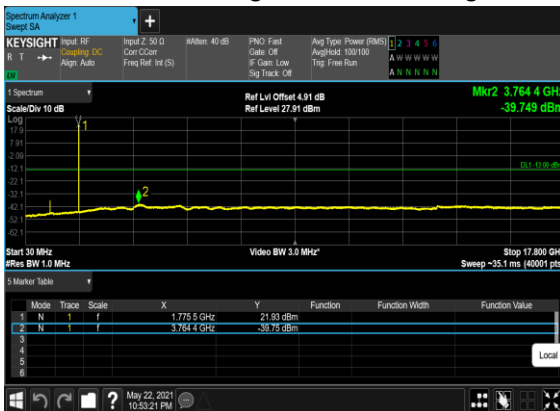
B5_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



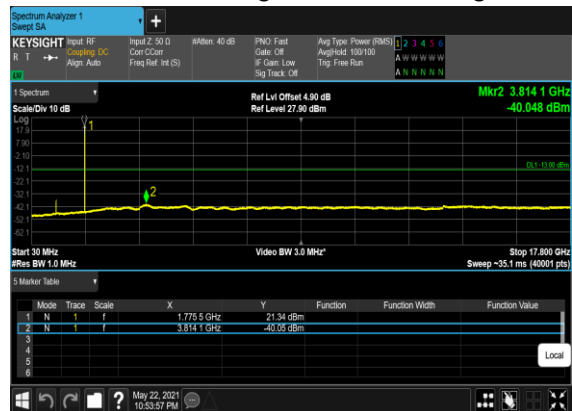
B5_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



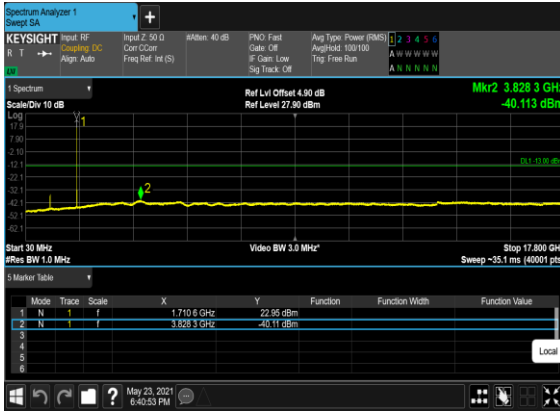
B5_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



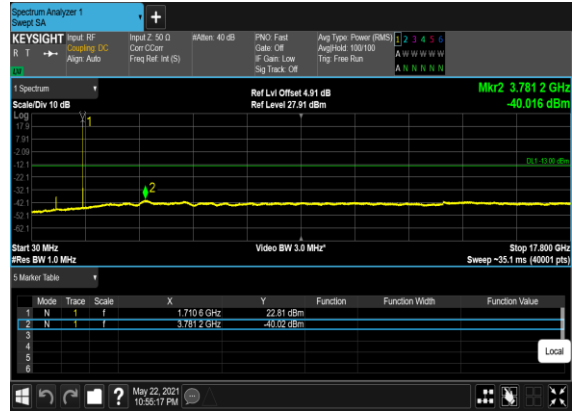
B5_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



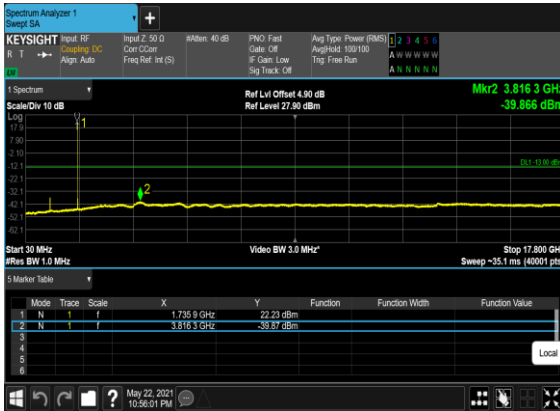
B5_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



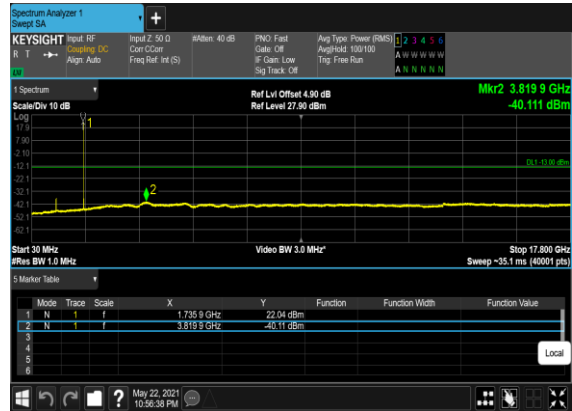
B5_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



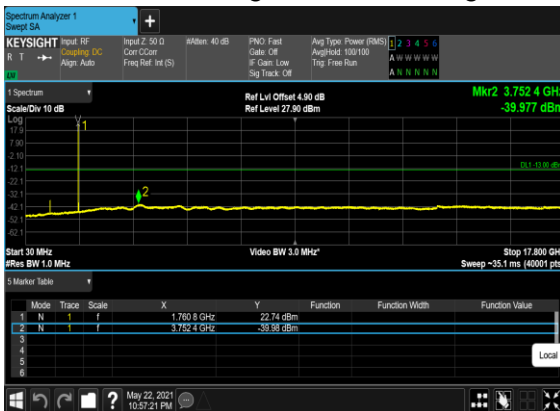
B5_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



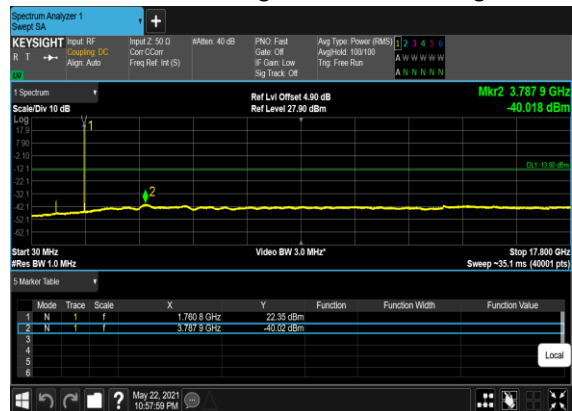
B5_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



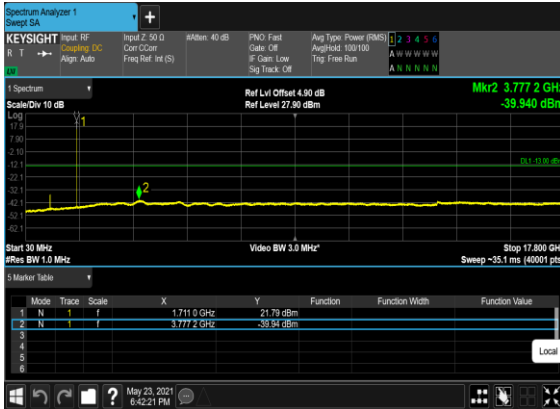
B5_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



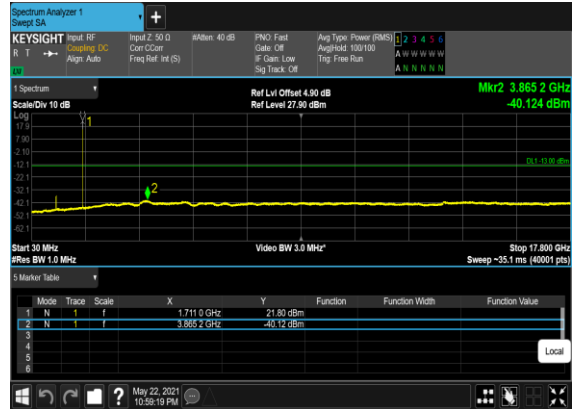
B5_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



B5_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



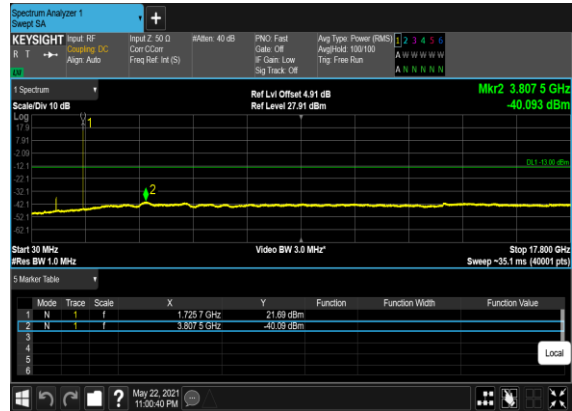
B5_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



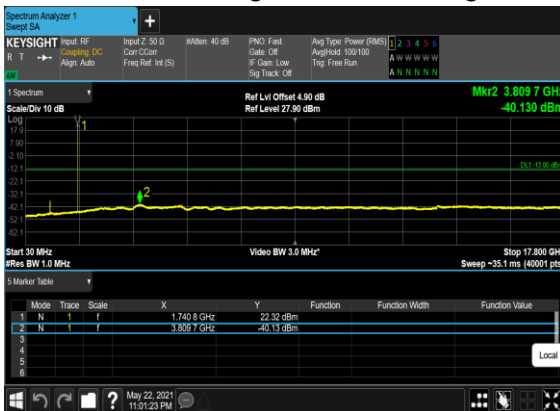
B5_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



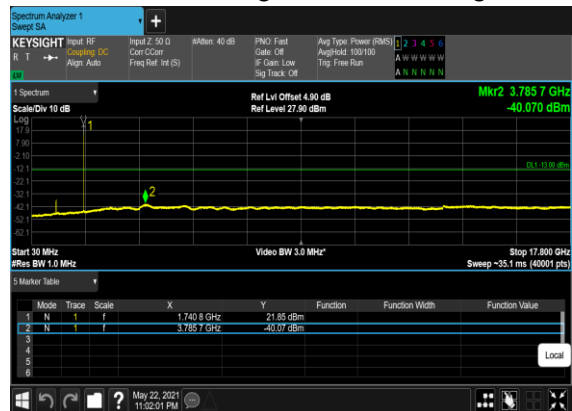
B5_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B5_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B5_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

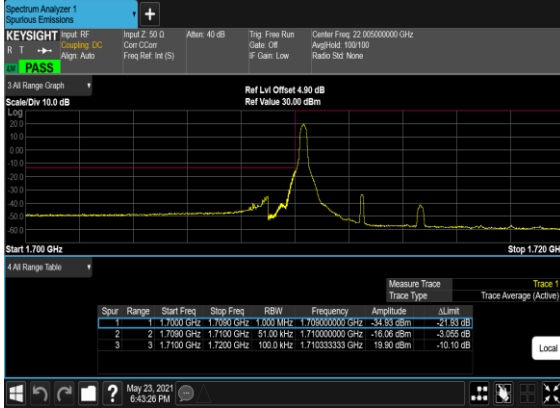


Conducted Band Edge

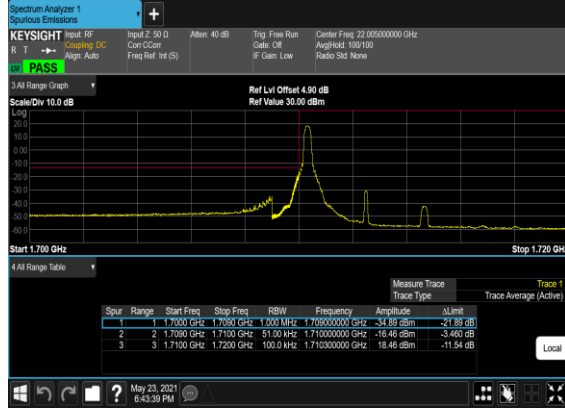
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	25@0	see graph	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	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
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	426000	1730.0	DFT-s-OFDM QPSK	216@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM BPSK	1@215	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	1@215	see graph	PASS

66	15	40	432000	1760.0	DFT-s-OFDM BPSK	216@0	see graph	PASS
66	15	40	432000	1760.0	DFT-s-OFDM QPSK	216@0	see graph	PASS

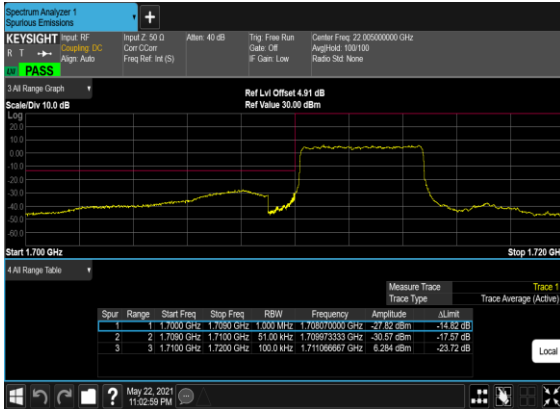
B5_N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



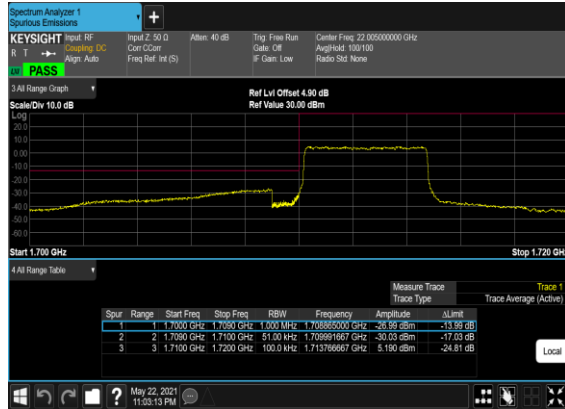
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OFDM_QPSK_Edge_1RB_Left_Low_CH



B5_N66(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



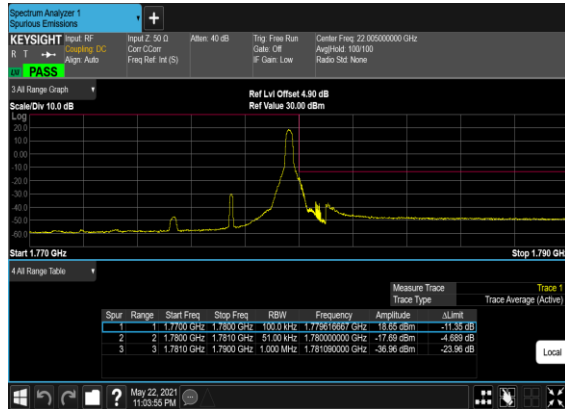
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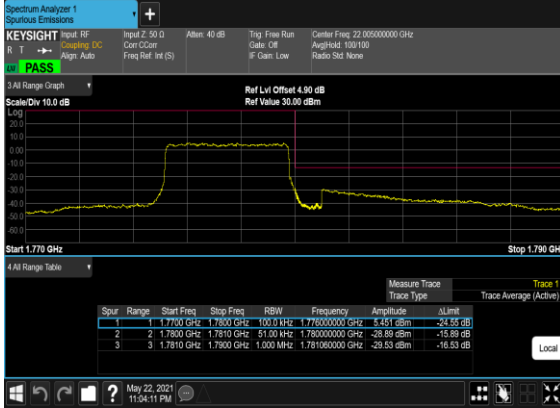
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OFDM_BPSK_Edge_1RB_Right_High_CH



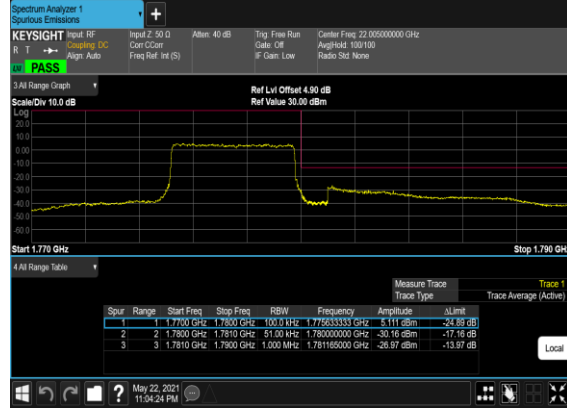
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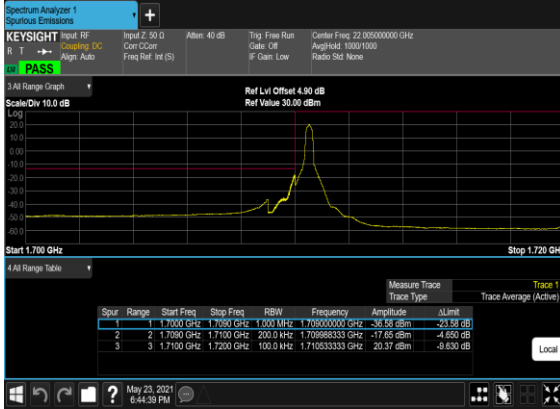
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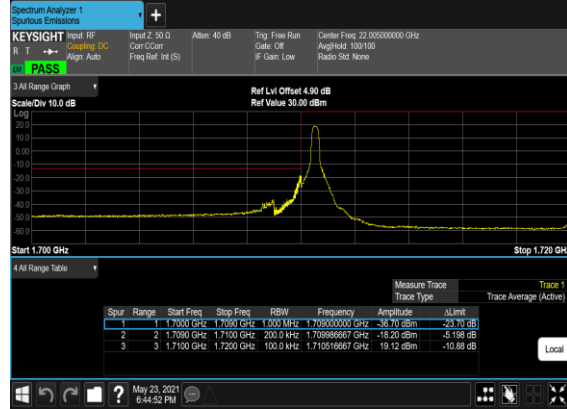
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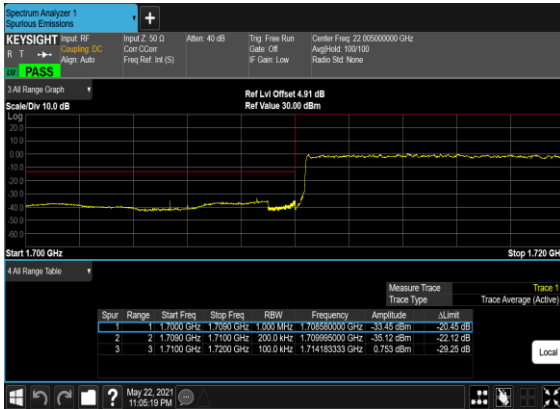
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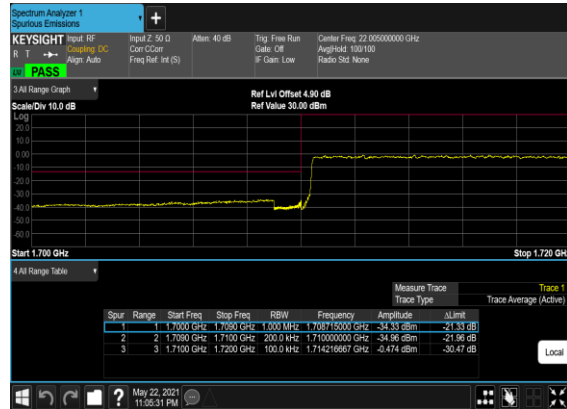
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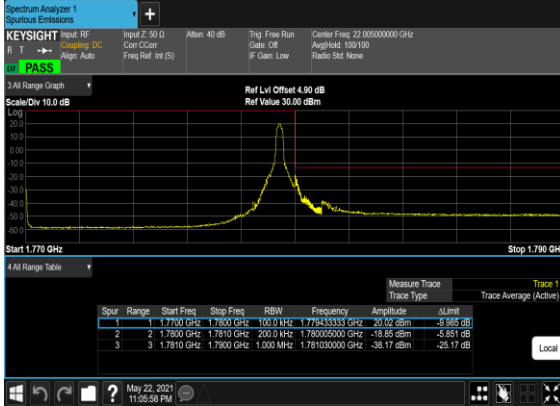
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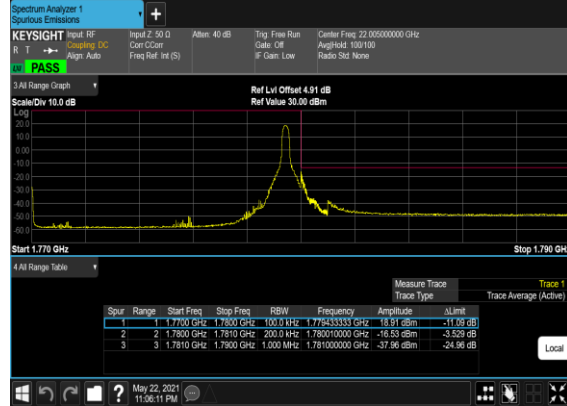
B5_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



B5_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



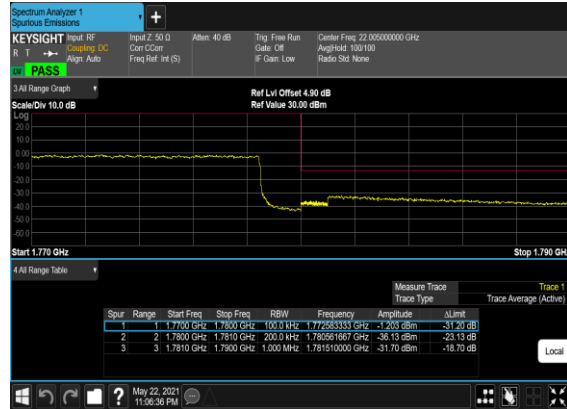
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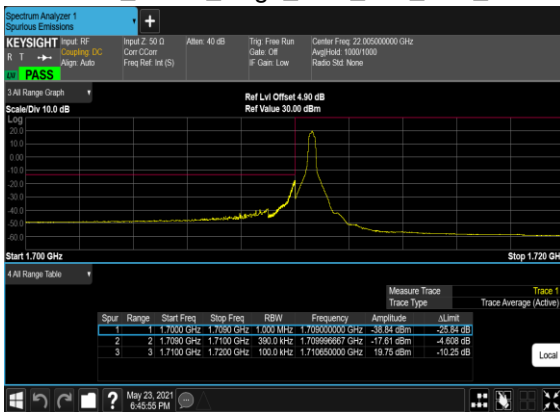
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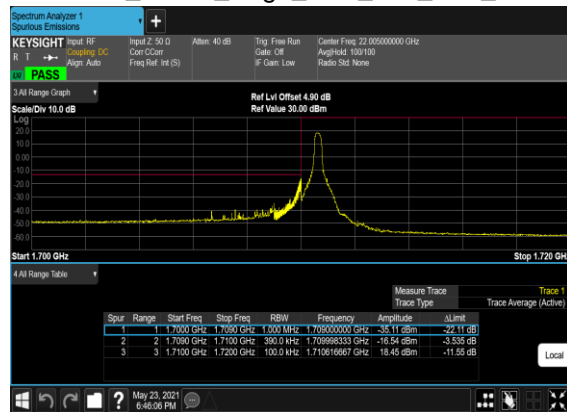
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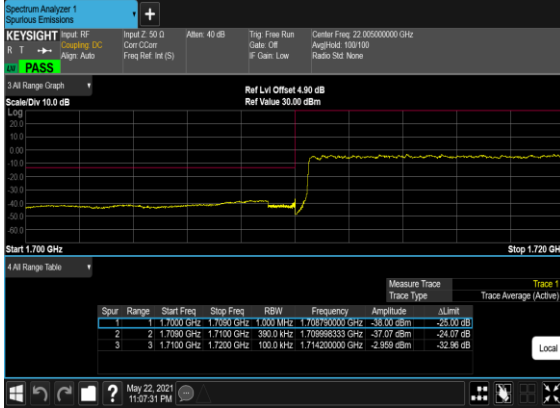
B5_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B5_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



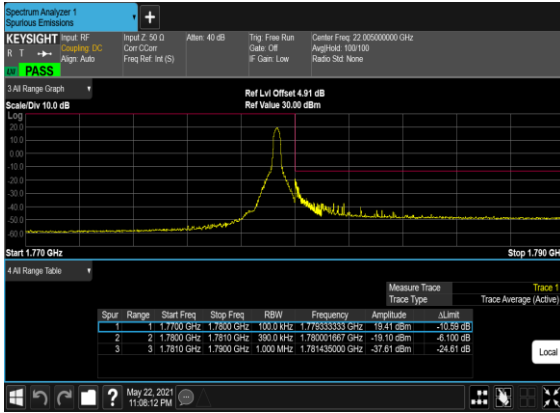
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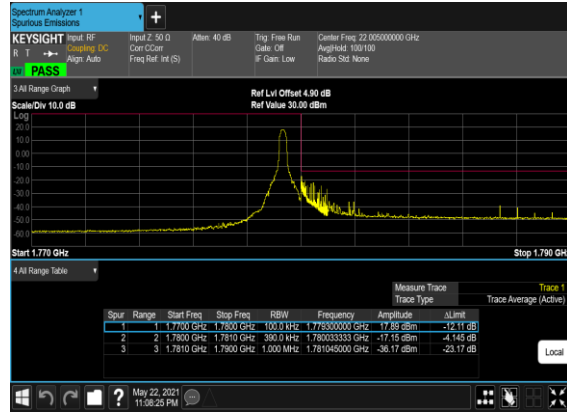
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B5_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



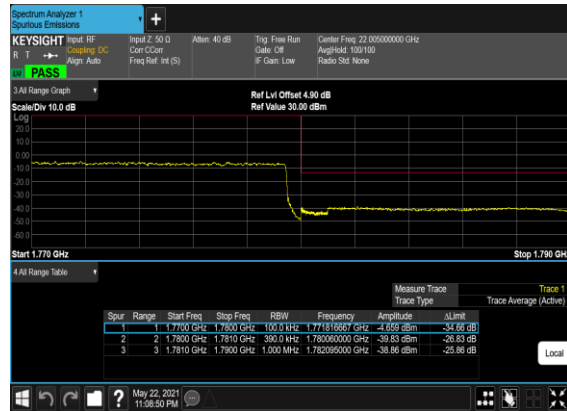
B5_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B5_N66(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



B5_N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Main Antenna

EN-DC_7A_n5A / LTE 20MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	ERP (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	-65.68	-25	-71.78	-73.06	-68.93	4.00	9.40	H
	2481.75	-62.37	-25	-72.58	-76.16	-65.94	4.88	10.60	H
	3309	-61.70	-25	-73.82	-66.38	-66.63	5.52	12.60	H
	1654.5	-66.68	-25	-41.68	-72.63	-69.93	4.00	9.40	V
	2481.75	-63.37	-25	-38.37	-73.94	-66.94	4.88	10.60	V
	3309	-62.70	-25	-37.70	-75.26	-67.63	5.52	12.60	V
LTE Band7 Middle	5052.18	-59.32	-25	-34.32	-76.74	-64.99	7.13	12.80	H
	7578.27	-51.92	-25	-26.92	-74.08	-55.02	8.50	11.60	H
	10104.36	-52.72	-25	-27.72	-79.61	-55.82	8.50	11.60	H
	5052.18	-60.01	-25	-35.01	-77.36	-65.68	7.13	12.80	V
	7578.27	-53.73	-25	-28.73	-75.69	-56.83	8.50	11.60	V
	10104.36	-53.44	-25	-28.44	-79.84	-56.54	8.50	11.60	V

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

EN-DC_5A_n7A / LTE 10MHz + NR 20MHz / QPSK DFT-s-OFDM									
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	5052.18	-60.58	-25	-35.58	-78.00	-66.25	7.13	12.80	H
	7578.27	-55.84	-25	-30.84	-78.00	-58.94	8.50	11.60	H
	10104.36	-53.15	-25	-28.15	-80.04	-56.25	8.50	11.60	H
	5052.18	-60.54	-25	-35.54	-77.89	-66.21	7.13	12.80	V
	7578.27	-56.12	-25	-31.12	-78.08	-59.22	8.50	11.60	V
	10104.36	-53.41	-25	-28.41	-79.81	-56.51	8.50	11.60	V
LTE Band5 Middle	1654.5	-66.15	-25	-71.78	-72.25	-69.40	4.00	9.40	H
	2481.75	-63.44	-25	-72.58	-73.65	-67.01	4.88	10.60	H
	3309	-63.23	-25	-73.82	-75.35	-68.16	5.52	12.60	H
	1654.5	-66.68	-25	-41.68	-72.63	-69.93	4.00	9.40	V
	2481.75	-63.37	-25	-38.37	-73.94	-66.94	4.88	10.60	V
	3309	-62.70	-25	-37.70	-75.26	-67.63	5.52	12.60	V

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



5G NR n41A / NR 100MHz / QPSK DFT-s-OFDM									
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)
Middle	5089.00	-60.50	-25	-35.50	-77.89	-66.06	7.16	12.72	H
	7633.50	-55.88	-25	-30.88	-78.09	-59.18	8.33	11.63	H
	10178.00	-52.69	-25	-27.69	-79.55	-54.29	10.50	12.10	H
	5089.00	-60.49	-25	-35.49	-77.81	-66.05	7.16	12.72	V
	7633.50	-56.16	-25	-31.16	-78.18	-59.46	8.33	11.63	V
	10178.00	-53.22	-25	-28.22	-79.67	-54.82	10.50	12.10	V

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

EN-DC_7A_n66A / LTE 20MHz + NR 20MHz / QPSK DFT-s-OFDM									
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	3541.84	-62.95	-25	-37.95	-76.39	-69.80	5.65	12.50	H
	5177.76	-60.87	-25	-35.87	-78.15	-66.54	7.13	12.80	H
	6903.68	-58.44	-25	-33.44	-78.85	-61.84	8.40	11.80	H
	3541.84	-62.63	-25	-37.63	-76.59	-69.48	5.65	12.50	V
	5177.76	-60.70	-25	-35.70	-77.92	-66.37	7.13	12.80	V
	6903.68	-58.03	-25	-33.03	-78.37	-61.43	8.40	11.80	V
LTE Band7 Middle	5052.18	-60.64	-25	-35.64	-78.06	-66.31	7.13	12.80	H
	7578.27	-55.89	-25	-30.89	-78.05	-58.99	8.50	11.60	H
	10104.36	-52.86	-25	-27.86	-79.75	-55.96	8.50	11.60	H
	5052.18	-60.66	-25	-35.66	-78.01	-66.33	7.13	12.80	V
	7578.27	-56.02	-25	-31.02	-77.98	-59.12	8.50	11.60	V
	10104.36	-53.43	-25	-28.43	-79.83	-56.53	8.50	11.60	V

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