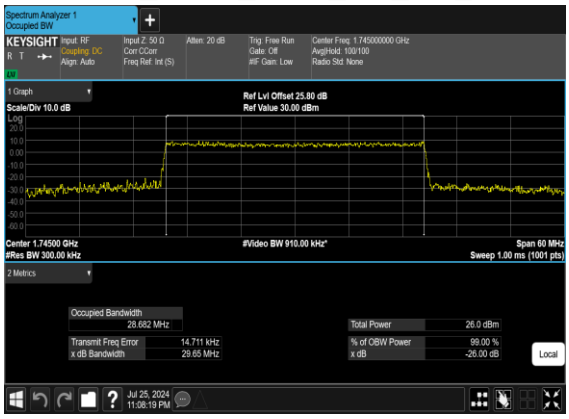
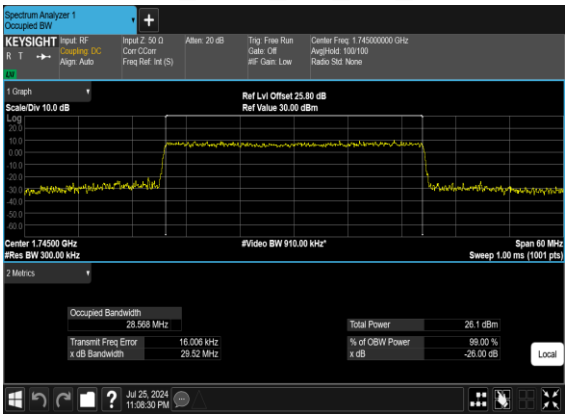
B7_N66(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

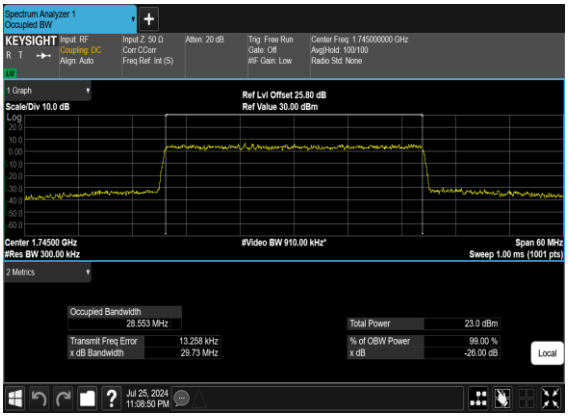


B7_N66(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

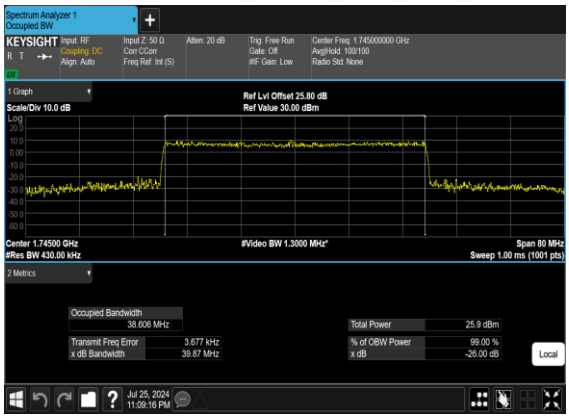


B7_N66(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

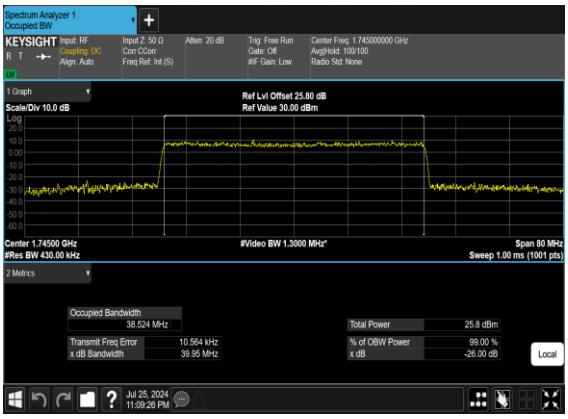
B7_N66(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



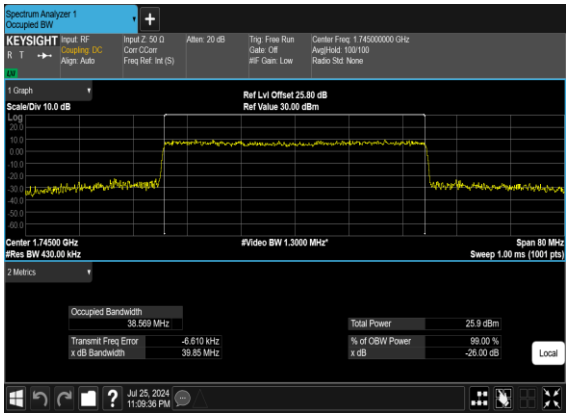
B7_N66(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



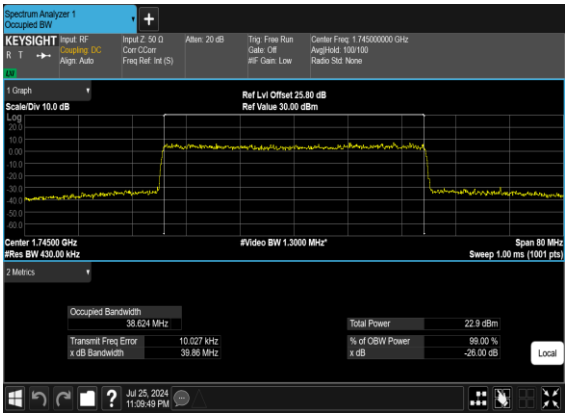
B7_N66(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



B7_N66(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



B7_N66(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

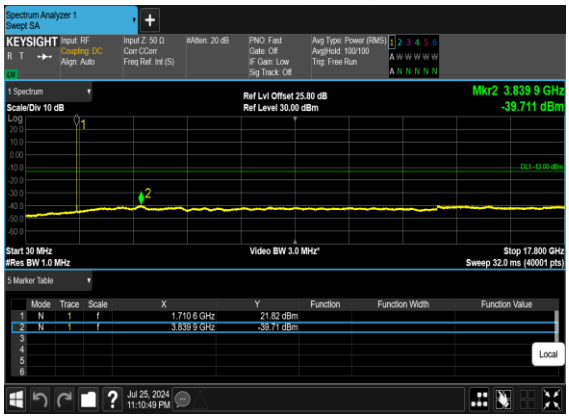


Conducted Spurious Emissions

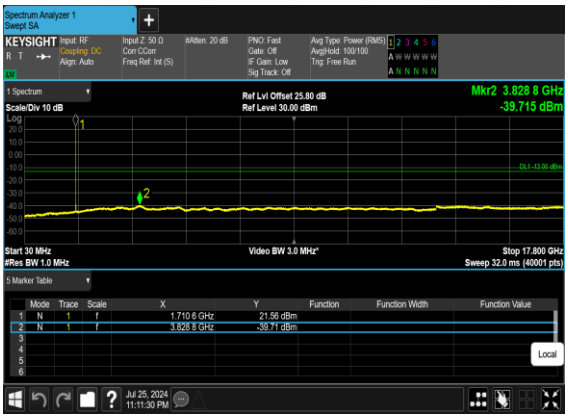
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	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**

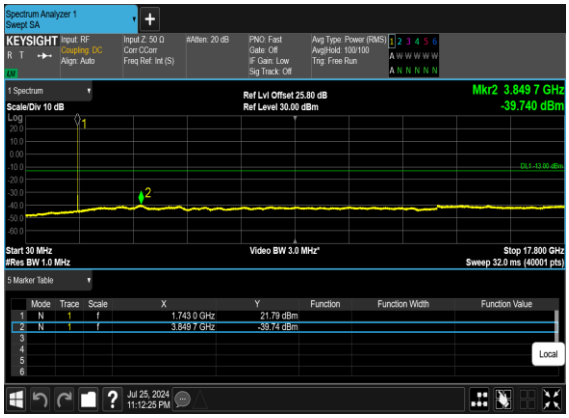
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



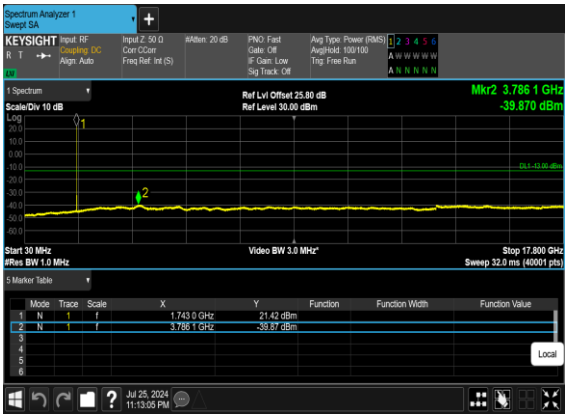
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



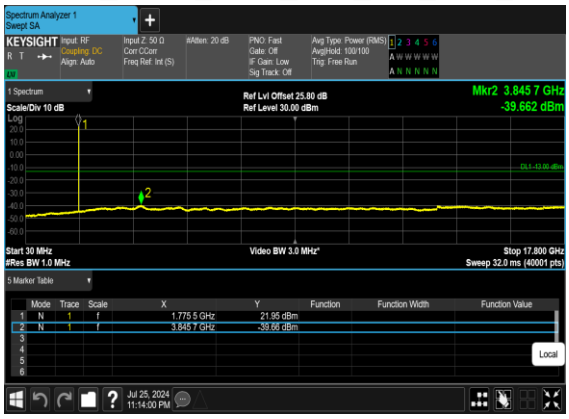
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



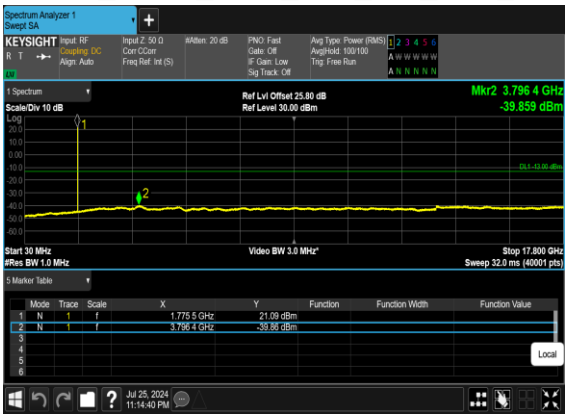
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



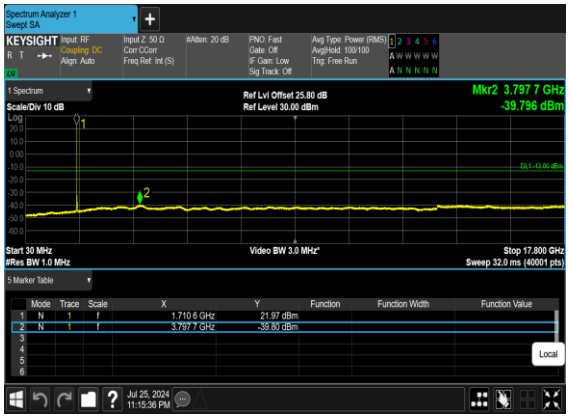
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



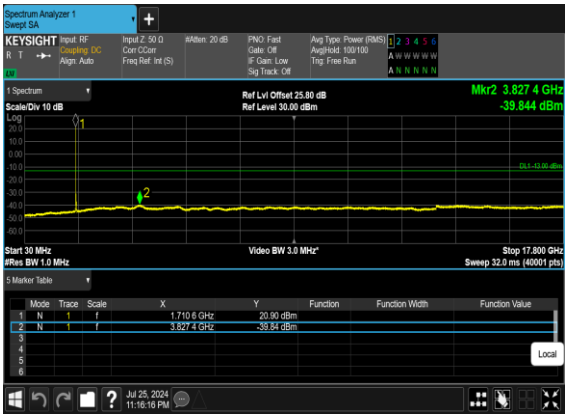
B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



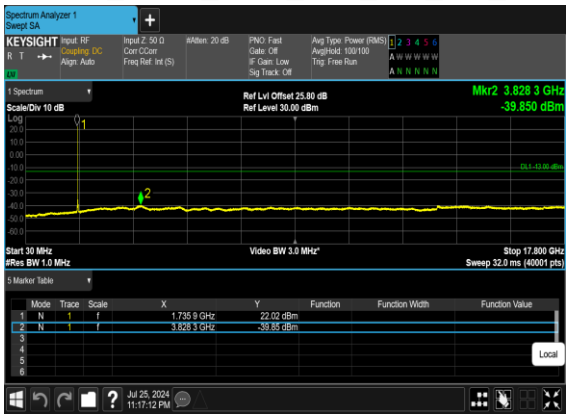
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



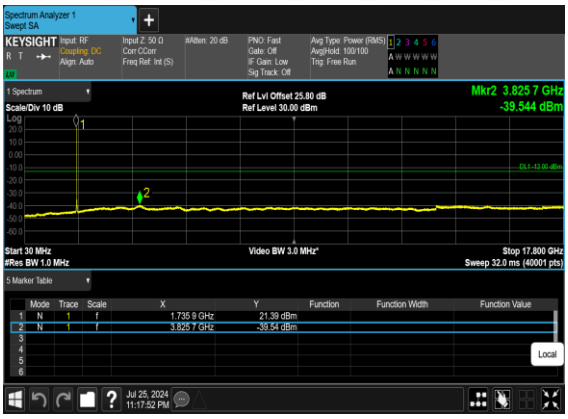
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



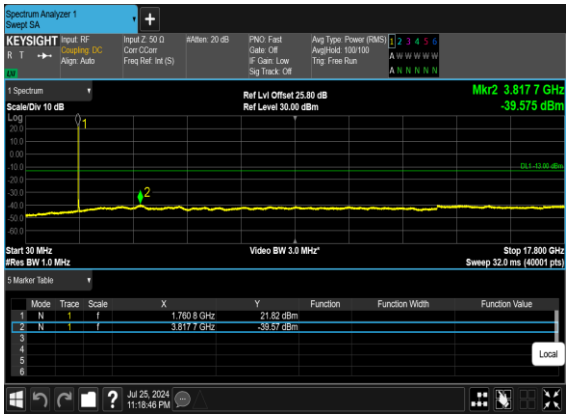
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



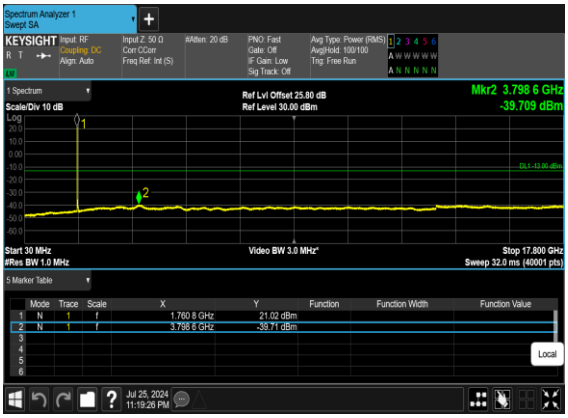
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



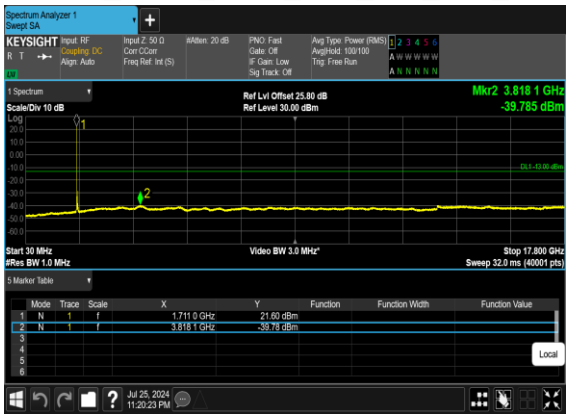
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



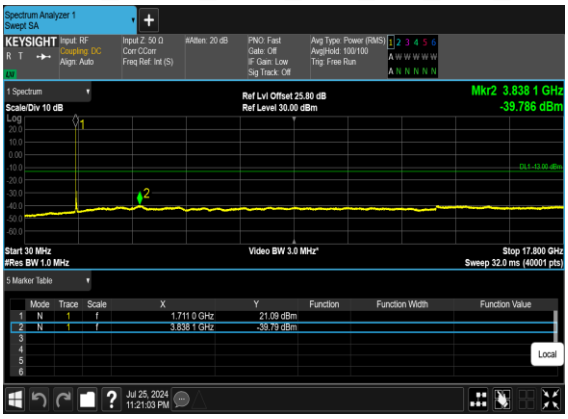
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



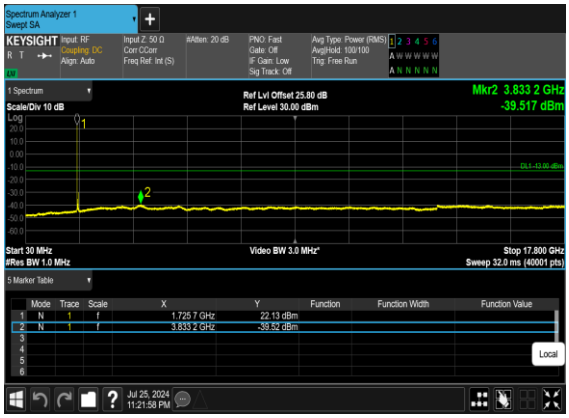
B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



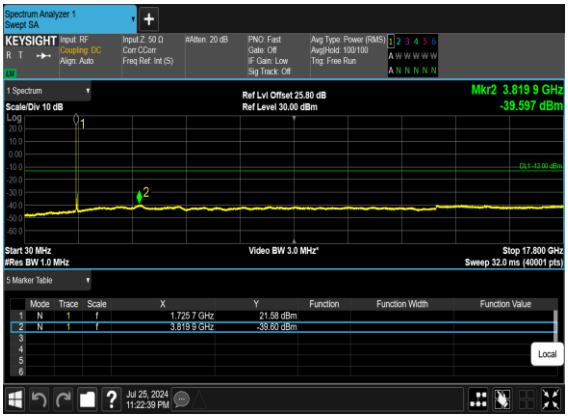
B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



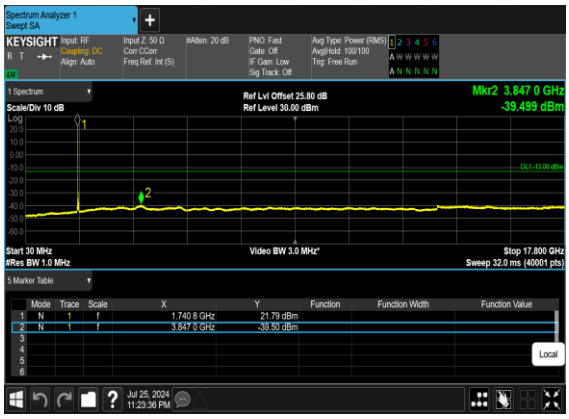
B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



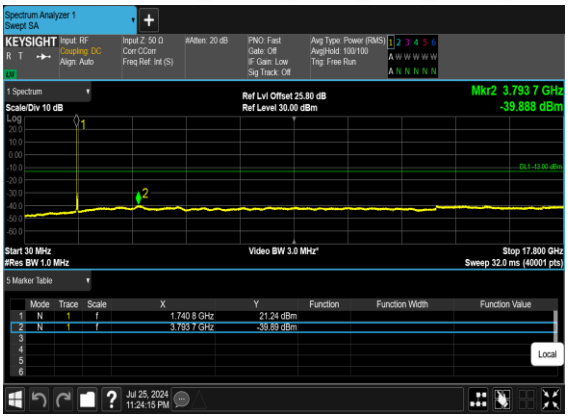
B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

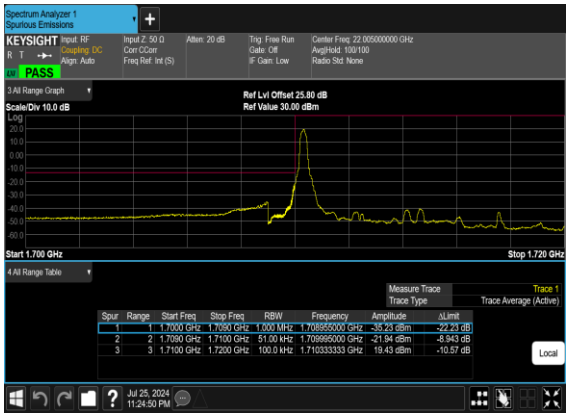


Conducted Band Edge

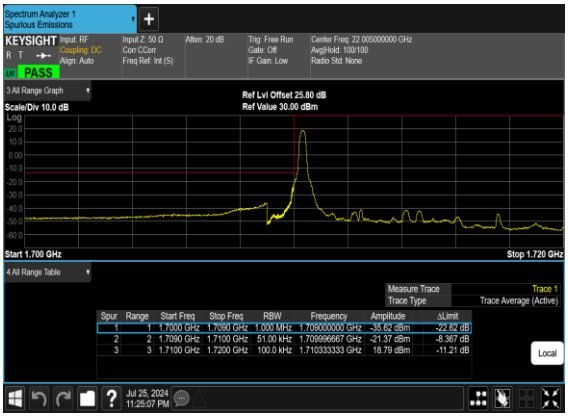
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM BPSK	25@0	see graph	**PASS**
66	15	5	342500	1712.5	DFT-s-OFDM QPSK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

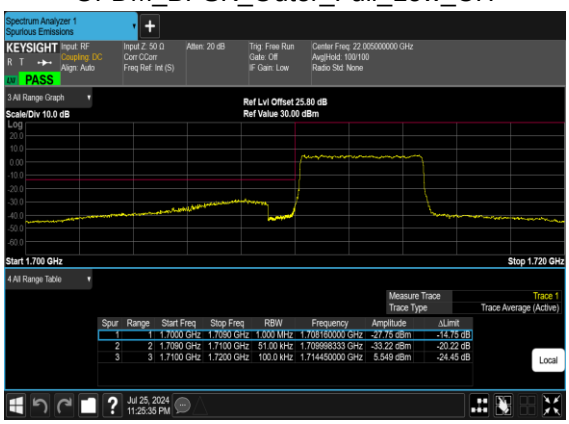
B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

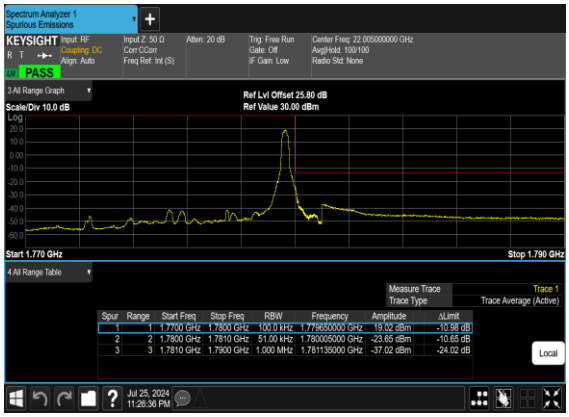


B7_N66(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

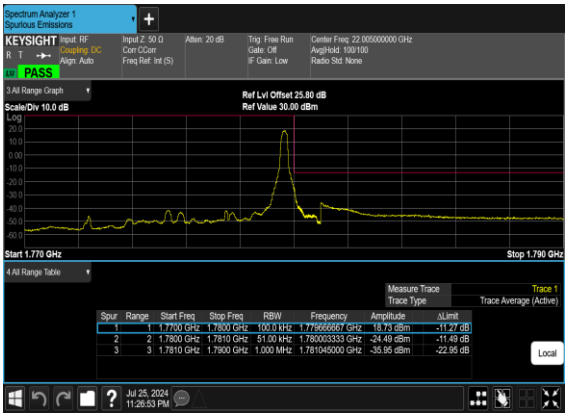


B7_N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

B7_N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

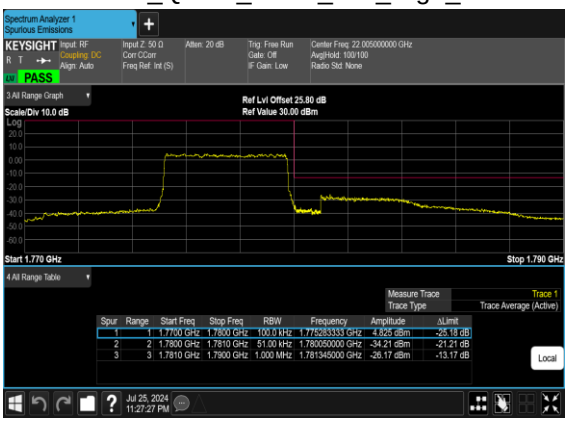


B7_N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

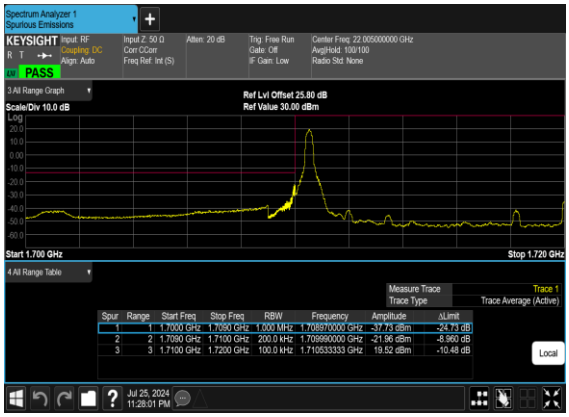


B7_N66(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

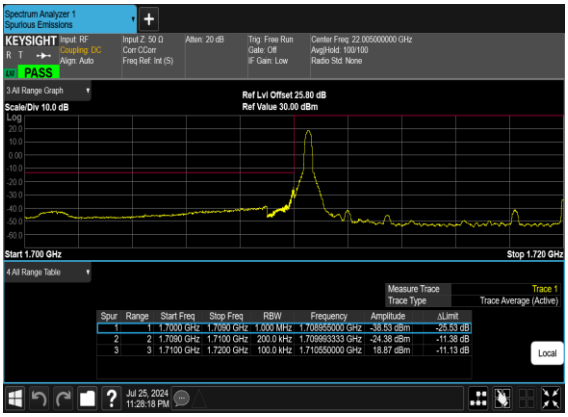
B7_N66(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



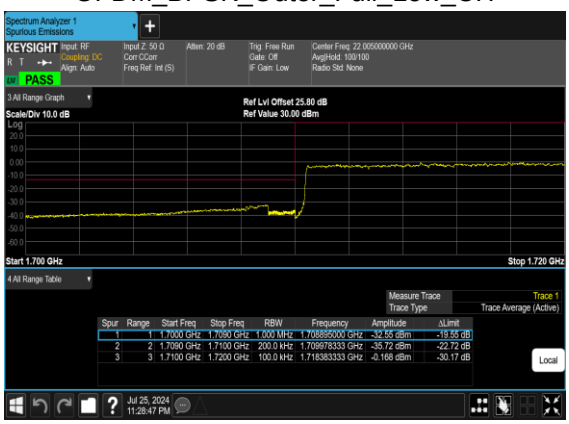
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



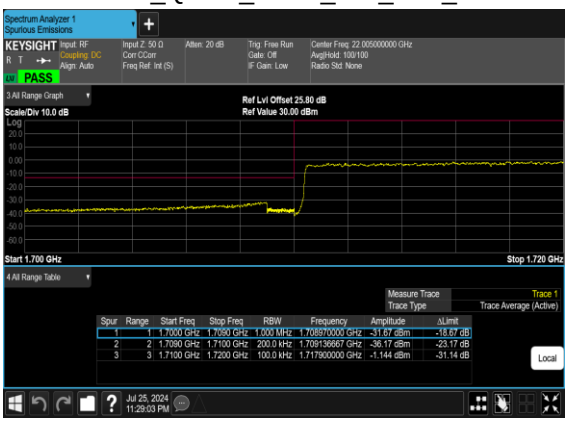
B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



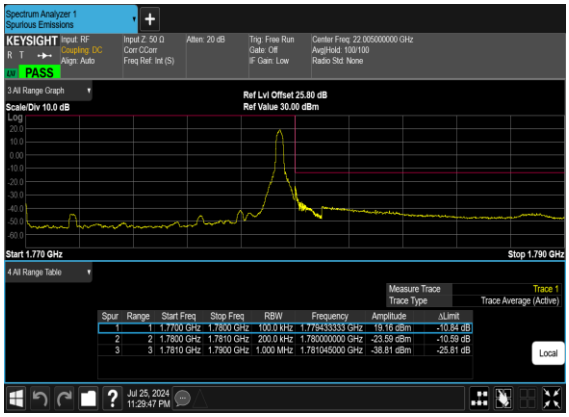
B7_N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



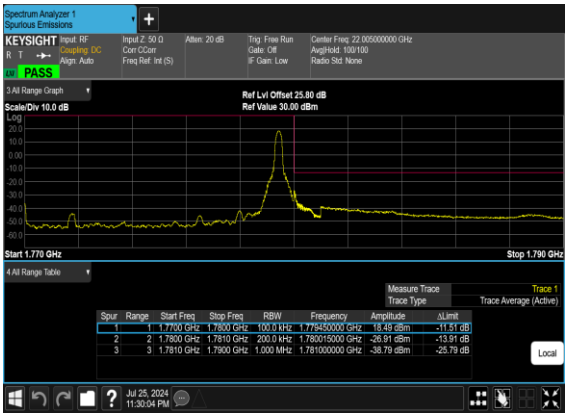
B7_N66(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



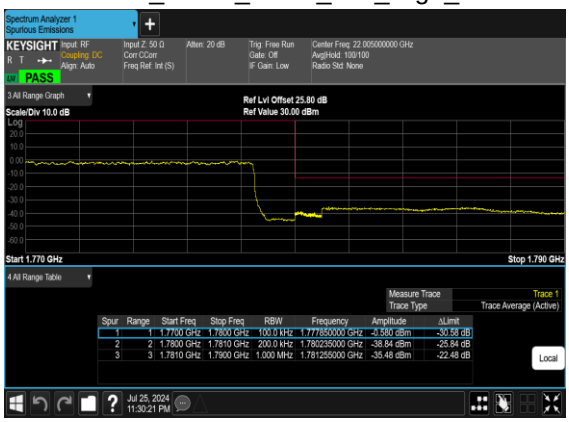
B7_N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



B7_N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N66(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



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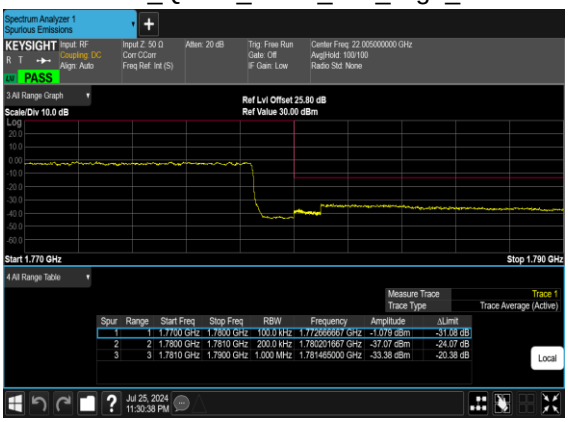
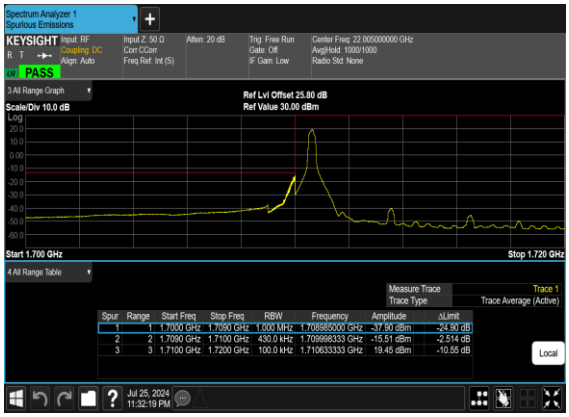


B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



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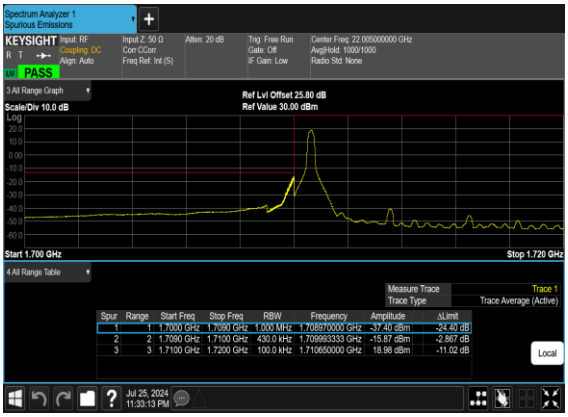
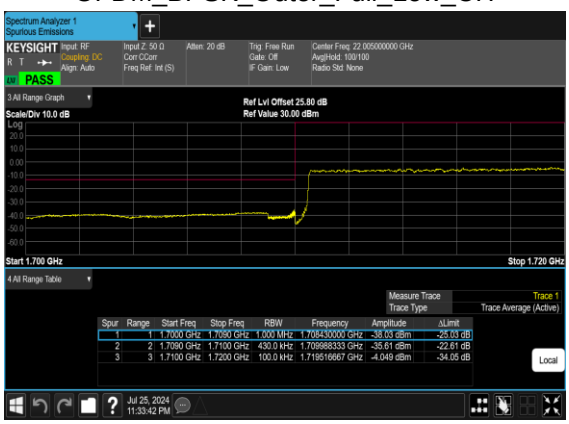
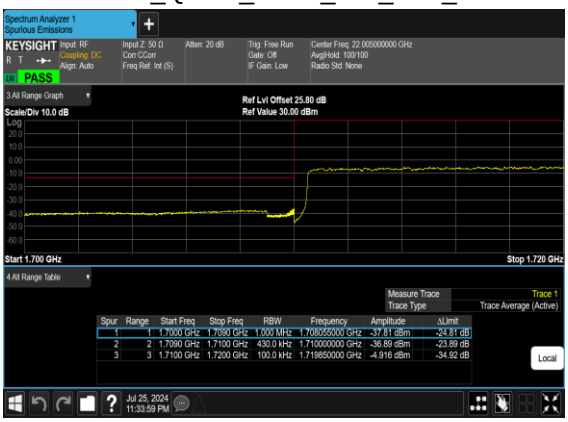


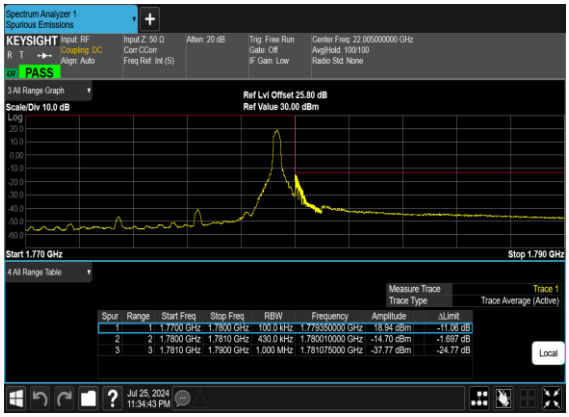
B7_N66(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



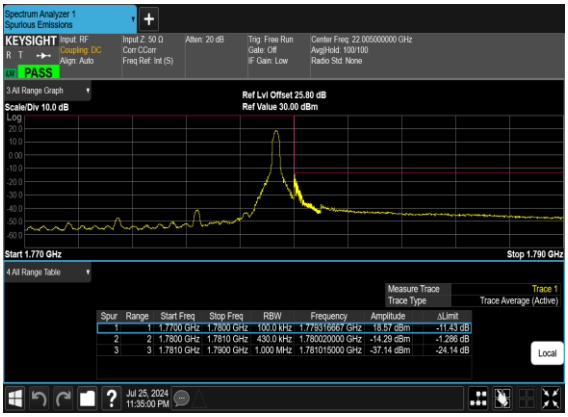
B7_N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



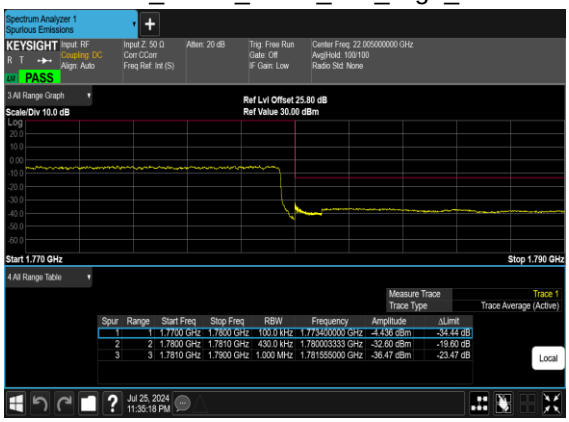
B7_N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



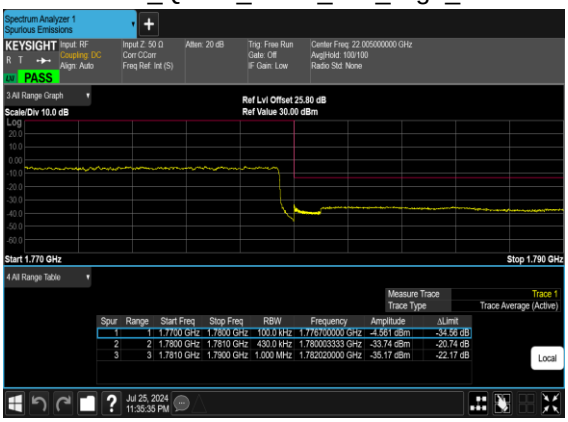
B7_N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



B7_N66(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



B7_N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Bruce	Temperature :	23~25℃
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

n2 SA / NR 20MHz / QPSK(ANT1)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3735	-56.45	-13	-43.45	-68.71	2.64	14.90	H
	5610	-55.33	-13	-42.33	-67.19	2.94	14.80	H
	7485	-54.12	-13	-41.12	-63.89	3.39	13.16	H
	3735	-56.28	-13	-43.28	-68.54	2.64	14.90	V
	5610	-55.78	-13	-42.78	-67.64	2.94	14.80	V
	7485	-54.45	-13	-41.45	-64.22	3.39	13.16	V

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

n2 Other PA SA / NR 20MHz / QPSK(ANT2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3735	-56.34	-13	-43.34	-68.60	2.64	14.90	H
	5610	-55.40	-13	-42.40	-67.26	2.94	14.80	H
	7485	-54.68	-13	-41.68	-64.45	3.39	13.16	H
	3735	-55.95	-13	-42.95	-68.21	2.64	14.90	V
	5610	-55.70	-13	-42.70	-67.56	2.94	14.80	V
	7485	-54.26	-13	-41.26	-64.03	3.39	13.16	V

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

N5 SA / NR 20MHz / QPSK(ANT4)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1648	-66.61	-13	-53.61	-73.58	1.58	10.70	H
	2472	-55.05	-13	-42.05	-63.30	2.102	12.50	H
	3304	-61.41	-13	-48.41	-70.30	2.856	13.90	H
	1648	-65.66	-13	-52.66	-72.63	1.58	10.70	V
	2472	-52.58	-13	-39.58	-60.83	2.10	12.50	V
	3304	-61.24	-13	-48.24	-70.13	2.86	13.90	V

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

EN-DC_7A_n5A / LTE 10MHz + NR 20MHz / QPSK (ANT1+4)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1648	-64.49	-13	-51.49	-71.46	1.58	10.70	H
	2472	-56.29	-13	-43.29	-64.54	2.102	12.50	H
	3304	-61.27	-13	-48.27	-70.16	2.856	13.90	H
	1648	-63.53	-13	-50.53	-70.50	1.58	10.70	V
	2472	-59.95	-13	-46.95	-68.20	2.10	12.50	V
	3304	-60.81	-13	-47.81	-69.70	2.86	13.90	V

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

N66 SA / NR 40MHz / QPSK(ANT1)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-57.98	-13	-44.98	-68.72	2.604	13.34	H
	5175	-54.89	-13	-41.89	-65.40	3.011	13.52	H
	6915	-55.77	-13	-42.77	-65.97	3.271	13.47	H
	3450	-58.01	-13	-45.01	-68.75	2.604	13.34	V
	5175	-54.68	-13	-41.68	-65.19	3.011	13.52	V
	6915	-55.24	-13	-42.24	-65.44	3.271	13.47	V

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

EN-DC_7A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT3+2)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-56.00	-13	-43.00	-66.74	2.604	13.34	H
	5175	-54.74	-13	-41.74	-65.25	3.011	13.52	H
	6915	-55.96	-13	-42.96	-66.16	3.271	13.47	H
	3450	-46.15	-13	-33.15	-56.89	2.604	13.34	V
	5175	-54.93	-13	-41.93	-65.44	3.011	13.52	V
	6915	-56.00	-13	-43.00	-66.20	3.271	13.47	V

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

EN-DC_66A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT4+1)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3450	-56.98	-13	-43.98	-67.72	2.604	13.34	H
	5175	-54.75	-13	-41.75	-65.26	3.011	13.52	H
	6915	-55.92	-13	-42.92	-66.12	3.271	13.47	H
	3450	-57.75	-13	-44.75	-68.49	2.604	13.34	V
	5175	-54.63	-13	-41.63	-65.14	3.011	13.52	V
	6915	-56.09	-13	-43.09	-66.29	3.271	13.47	V

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