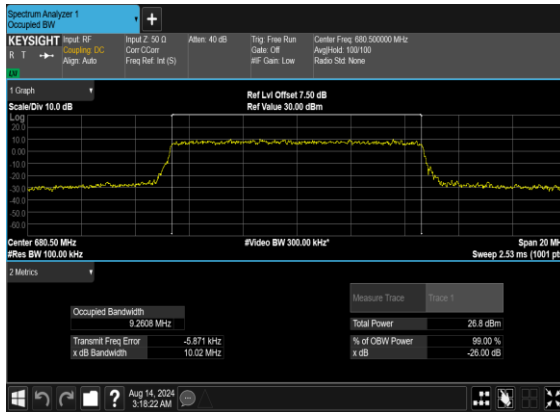
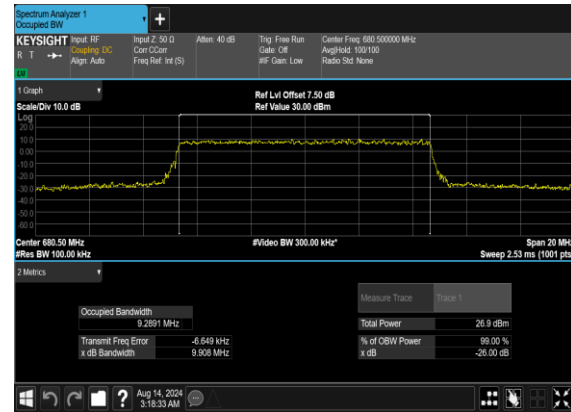




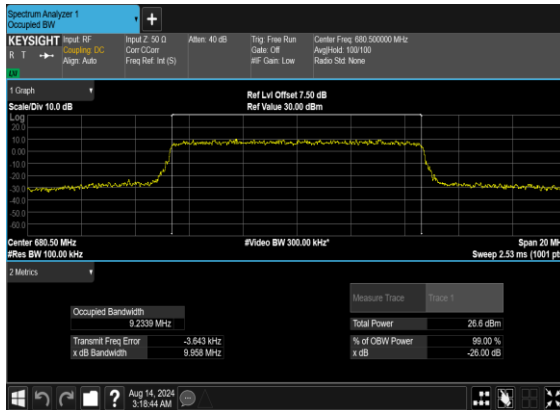
N71(10M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



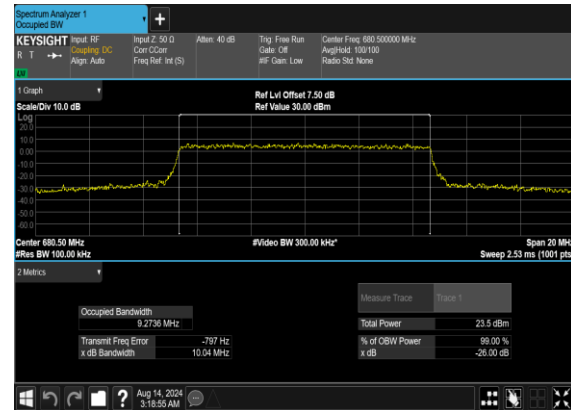
N71(10M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N71(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

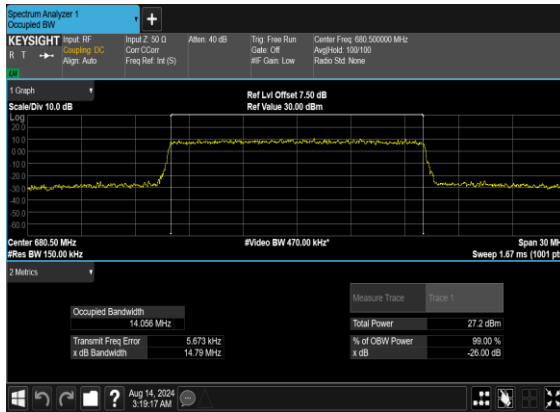


N71(10M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

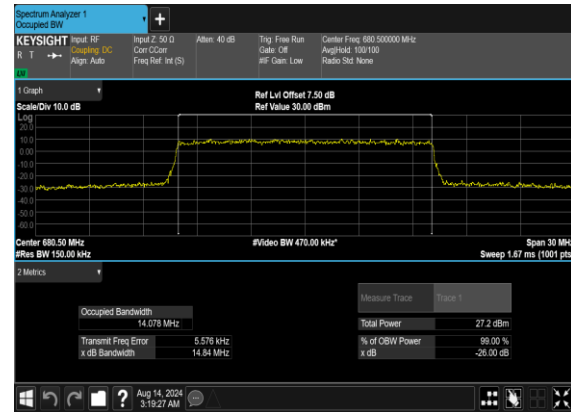




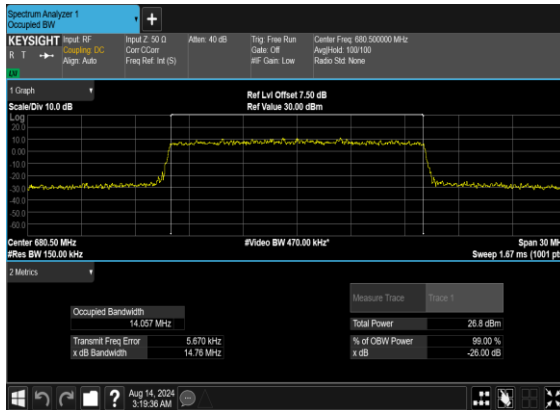
N71(15M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



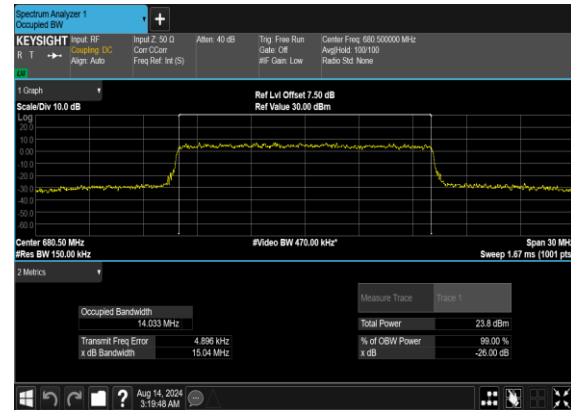
N71(15M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N71(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

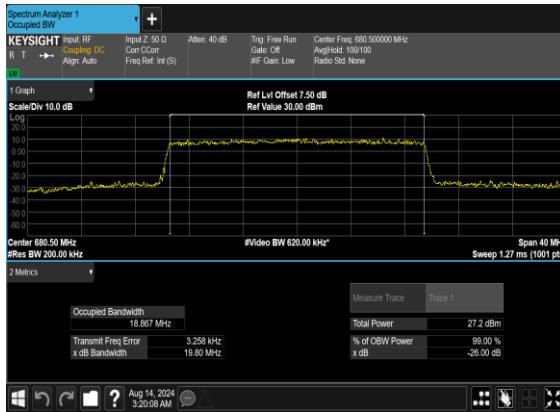


N71(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

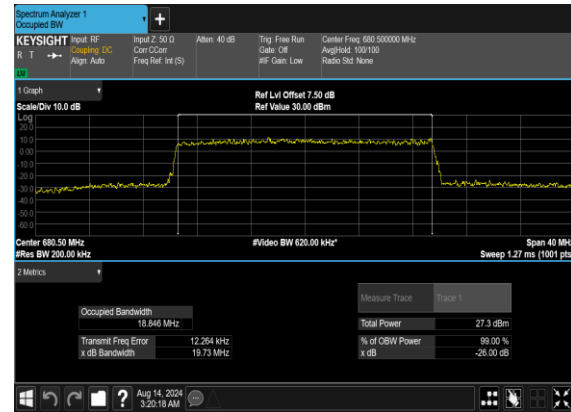




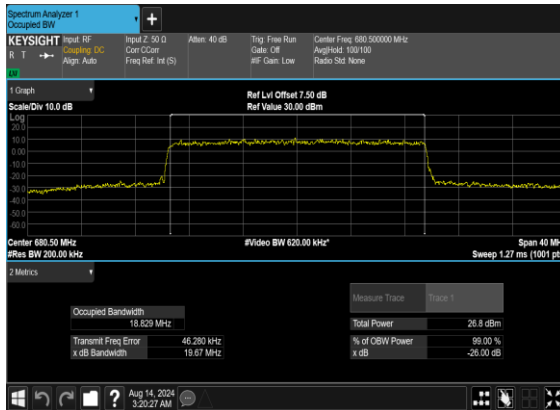
N71(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



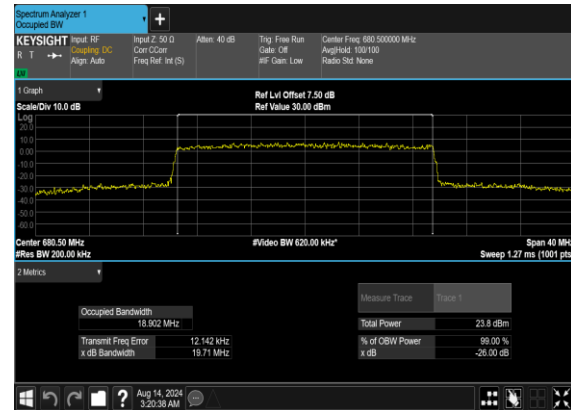
N71(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N71(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N71(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
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	5	136100	665.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	5	136100	665.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	5	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	10	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	10	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	PASS



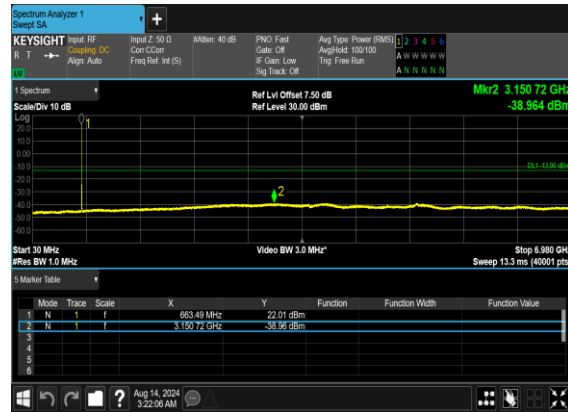
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	20	136100	680.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	20	136100	680.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@0	see graph	---
71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@0	see graph	---
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@0	see graph	PASS



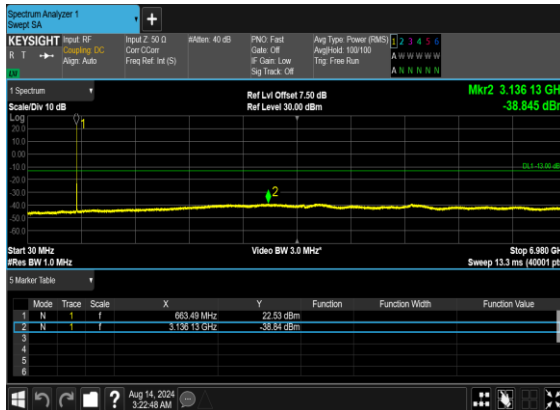
N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



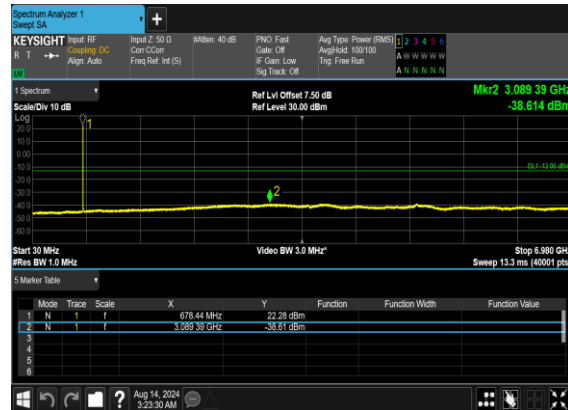
N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



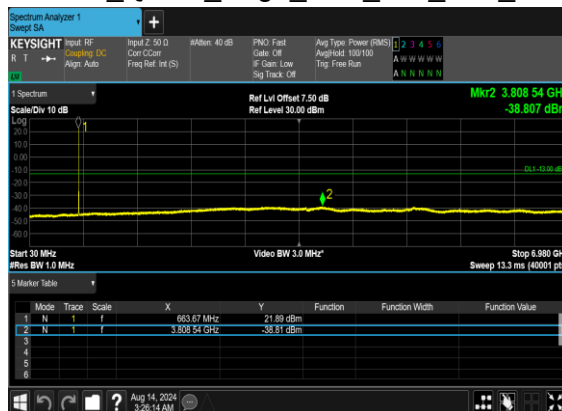
N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

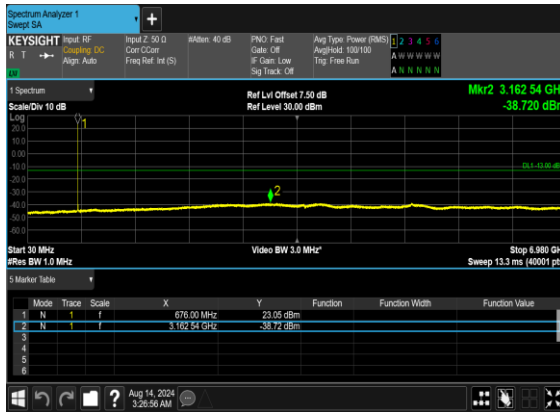


N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH





N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

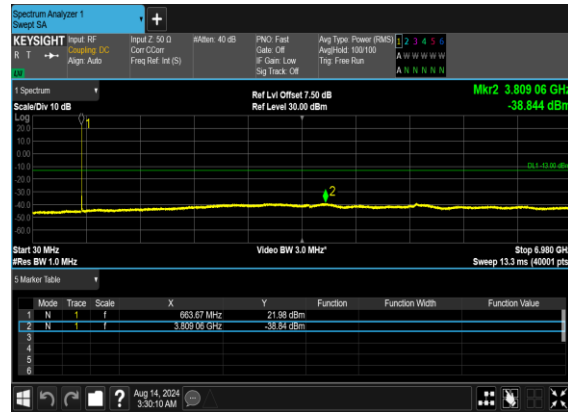




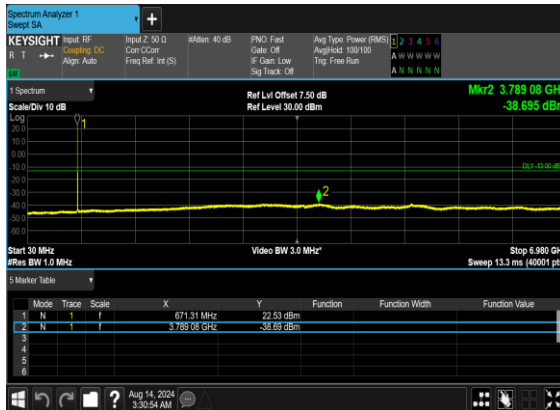
N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



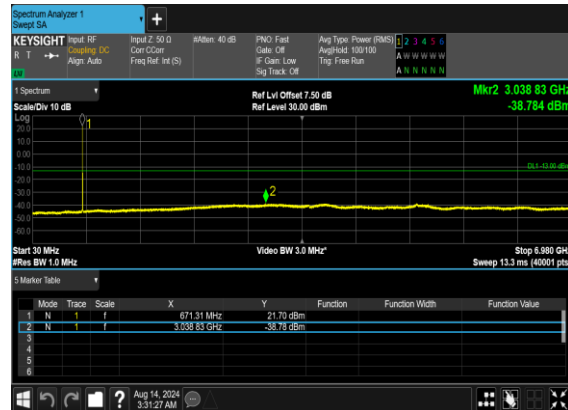
N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

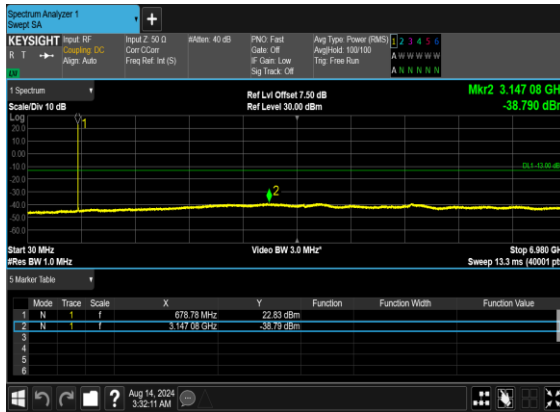


N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH





N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH



**Conducted Band Edge**

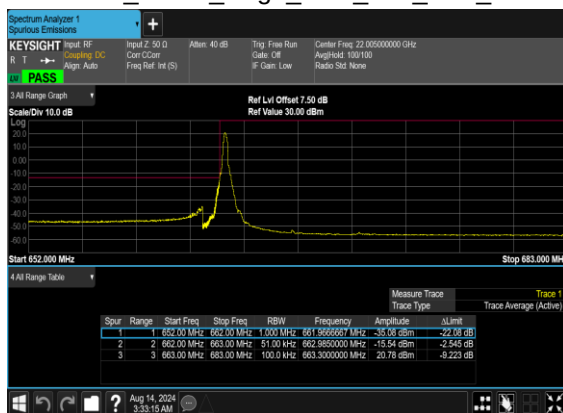
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
71	15	5	133100	665.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
71	15	5	133100	665.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
71	15	5	139100	695.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
71	15	10	133600	668.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
71	15	10	138600	693.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
71	15	20	134600	673.0	DFT-s-OFDM QPSK	100@0	see graph	PASS



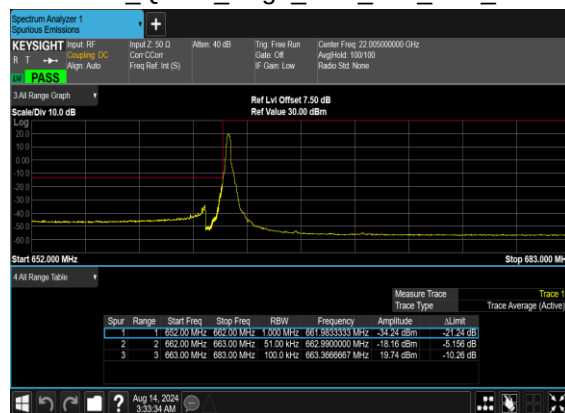
71	15	20	137600	688.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
71	15	20	137600	688.0	DFT-s-OFDM QPSK	100@0	see graph	PASS



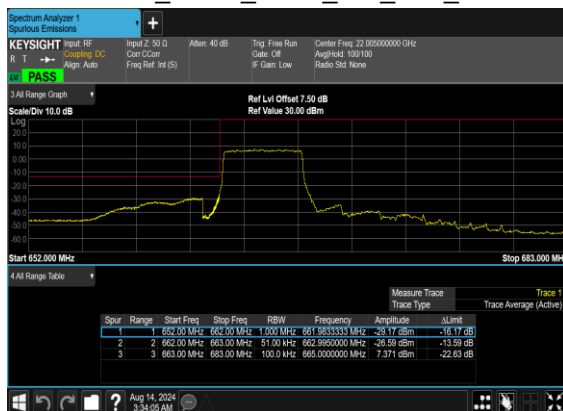
N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



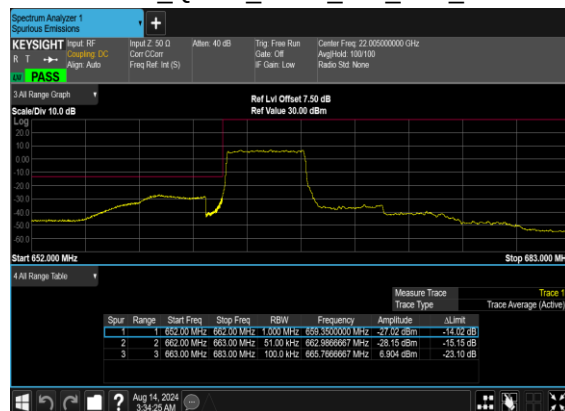
N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(5M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

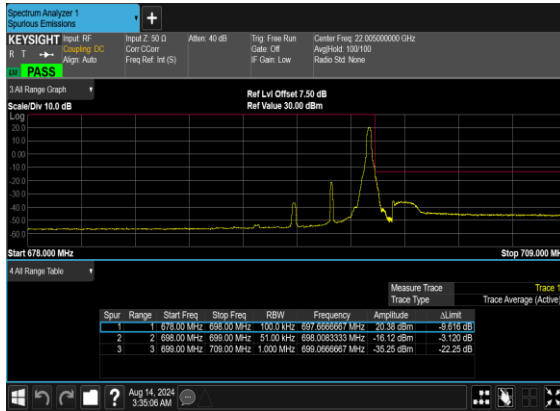


N71(5M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





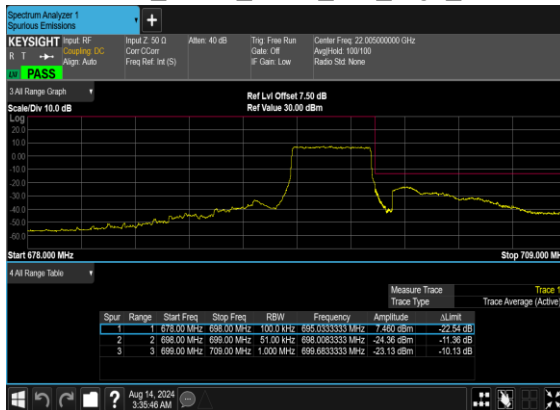
N71(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



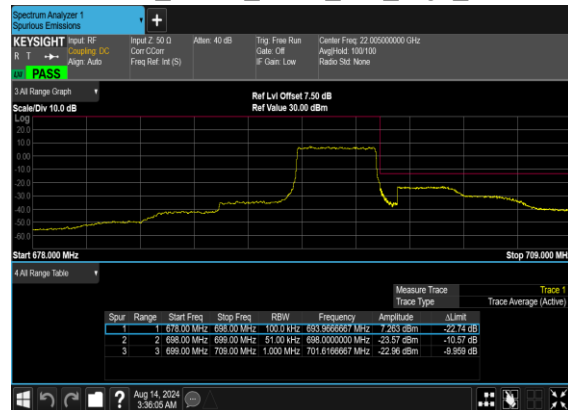
N71(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N71(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

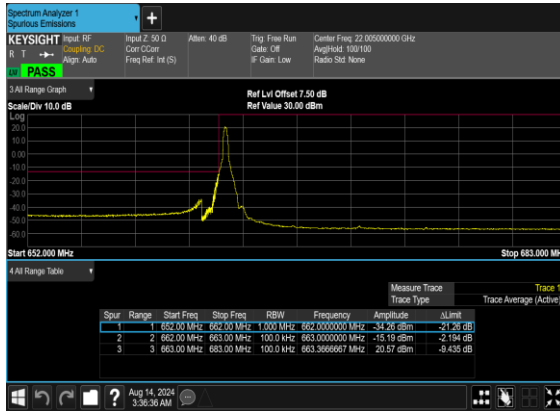


N71(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

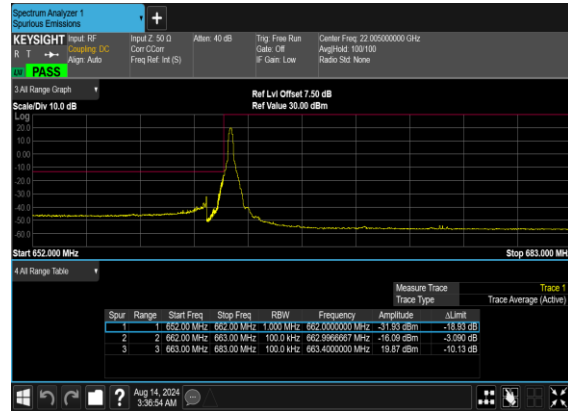




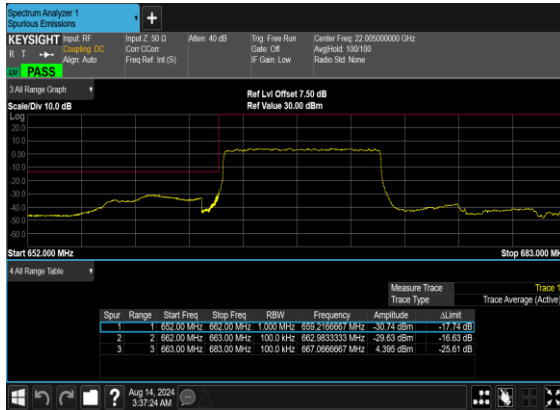
N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



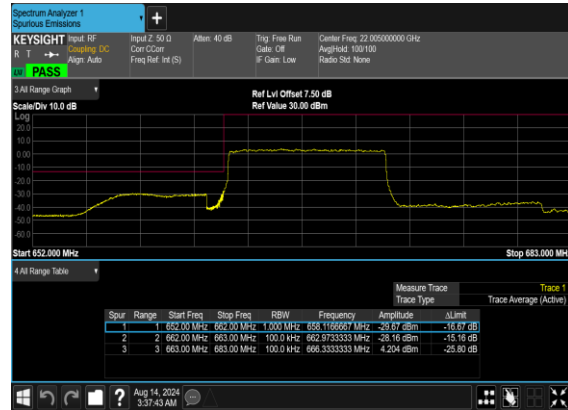
N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

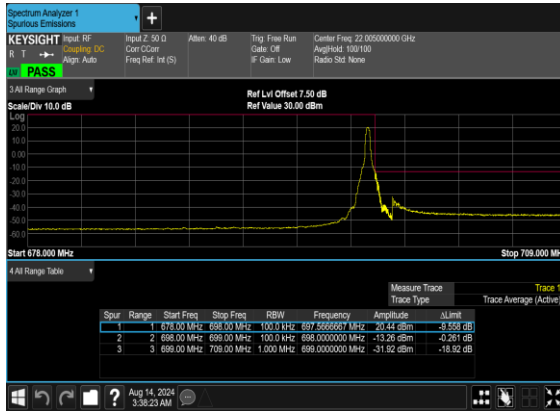


N71(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

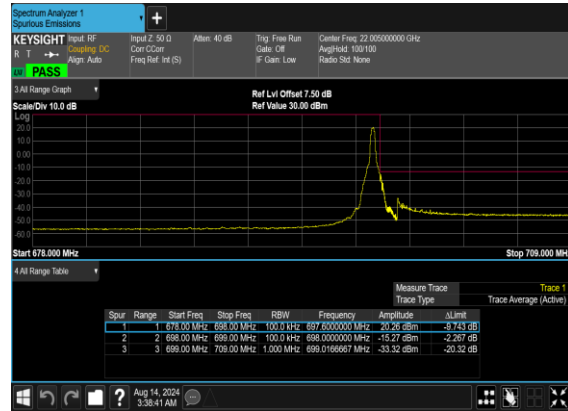




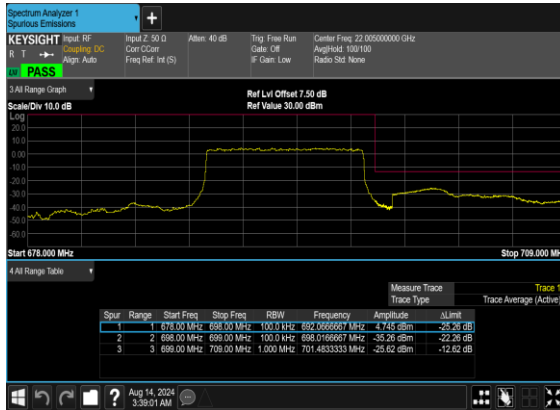
N71(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



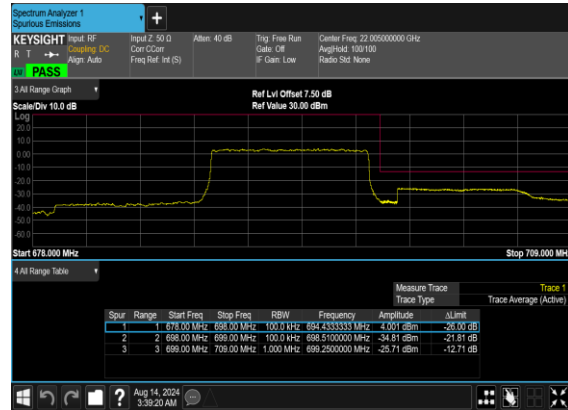
N71(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N71(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

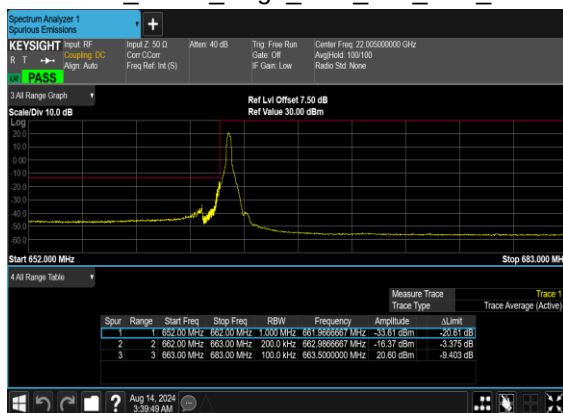


N71(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

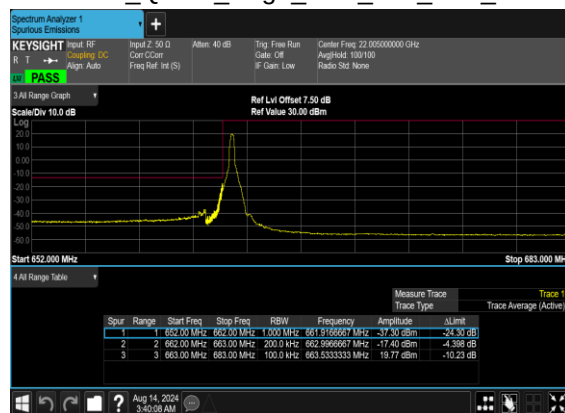




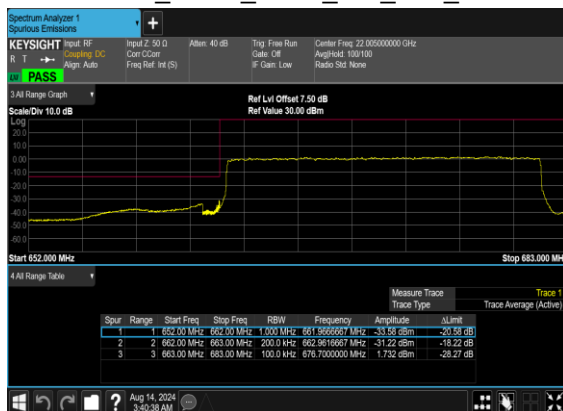
N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



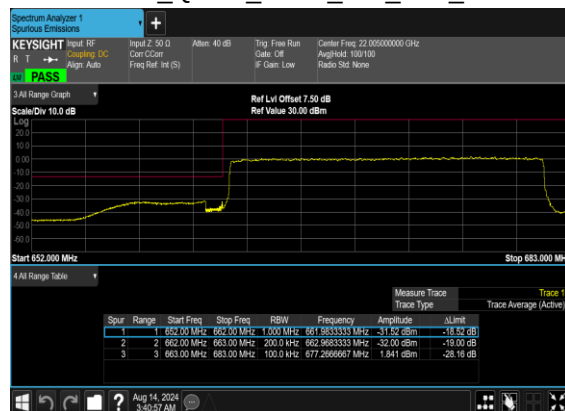
N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N71(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

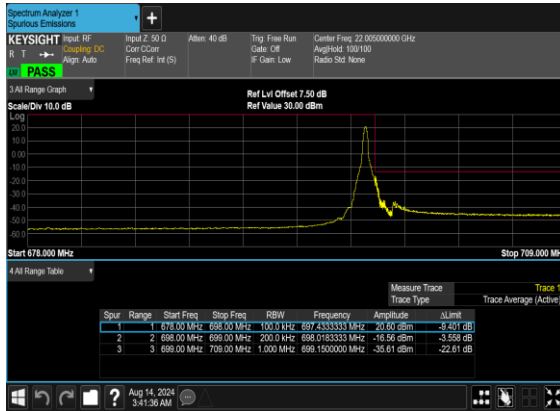


N71(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

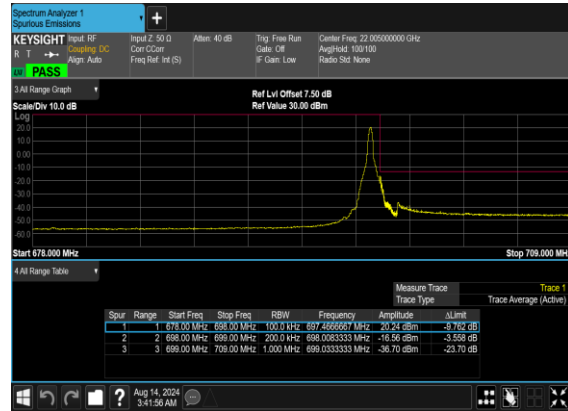




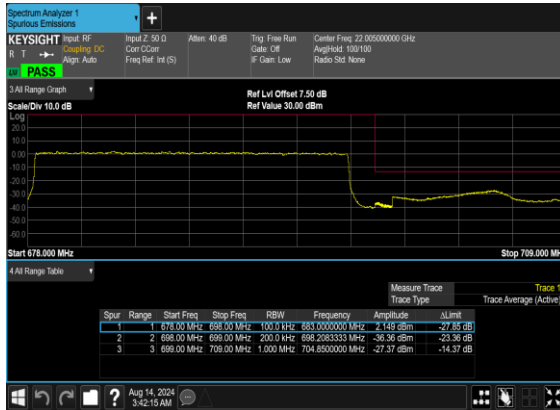
N71(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



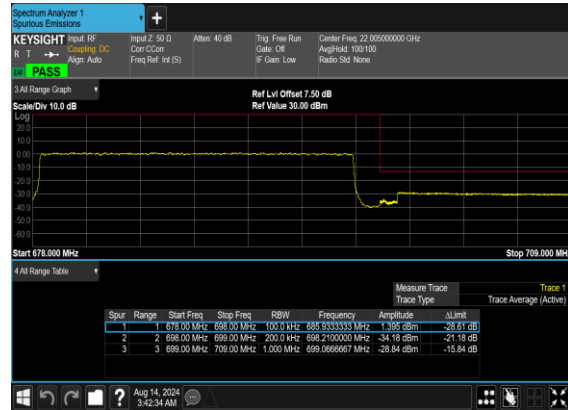
N71(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N71(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N71(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Zhaohui Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

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

n12 SA / NR 15MHz / QPSK(ANT0)									
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)
Middle	1401.3	-66.34	-13	-53.34	-77.60	-69.59	4.00	9.40	H
	2102	-62.06	-13	-49.06	-80.21	-65.63	4.88	10.60	H
	2802.6	-60.89	-13	-47.89	-80.27	-65.82	5.52	12.60	H
	3503.25	-59.11	-13	-46.11	-80.94	-63.58	6.00	12.62	H
	4203.9	-58.91	-13	-45.91	-80.84	-62.32	7.14	12.70	H
	4904.55	-57.18	-13	-44.18	-81.15	-60.41	7.62	13.00	H
	5605.2	-49.99	-13	-36.99	-74.57	-52.54	8.00	12.70	H
	6305.85	-45.04	-13	-32.04	-71.03	-45.99	8.40	11.50	H
	1401.3	-65.29	-13	-52.29	-77.61	-68.54	4.00	9.40	V
	2102	-62.05	-13	-49.05	-79.99	-65.62	4.88	10.60	V
	2802.6	-59.86	-13	-46.86	-80.00	-64.79	5.52	12.60	V
	3503.25	-58.39	-13	-45.39	-81.76	-62.86	6.00	12.62	V
	4203.9	-56.73	-13	-43.73	-81.04	-60.14	7.14	12.70	V
	4904.55	-52.82	-13	-39.82	-77.94	-56.05	7.62	13.00	V
	5605.2	-42.67	-13	-29.67	-68.10	-45.22	8.00	12.70	V
	6305.85	-35.04	-13	-22.04	-61.14	-35.99	8.40	11.50	V

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

n41 SA / NR 100MHz / QPSK(ANT0)									
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	-51.32	-25	-26.32	-75.60	-56.88	7.14	12.70	H
	7633.50	-46.82	-25	-21.82	-73.36	-50.12	8.30	11.60	H
	10178.00	-51.85	-25	-26.85	-82.87	-53.37	10.48	12.00	H
	12722.50	-45.66	-25	-20.66	-79.92	-47.36	11.80	13.50	H
	5089.00	-45.53	-25	-20.53	-70.79	-51.09	7.14	12.70	V
	7633.50	-31.01	-25	-6.01	-58.23	-34.31	8.30	11.60	V
	10178.00	-43.87	-25	-18.87	-76.11	-45.39	10.48	12.00	V
	12722.50	-28.17	-25	-3.17	-62.58	-29.87	11.80	13.50	V

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



EN-DC 66A n41A / LTE 10MHz + NR 100MHz / QPSK (ANT0+3)									
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 n41 Middle	5089.00	-53.50	-25	-28.50	-77.78	-59.06	7.14	12.70	H
	7633.50	-49.67	-25	-24.67	-76.21	-52.97	8.30	11.60	H
	10178.00	-52.30	-25	-27.30	-83.32	-53.82	10.48	12.00	H
	12722.50	-48.14	-25	-23.14	-82.40	-49.84	11.80	13.50	H
	5089.00	-49.66	-25	-24.66	-74.92	-55.22	7.14	12.70	V
	7633.50	-45.31	-25	-20.31	-72.53	-48.61	8.30	11.60	V
	10178.00	-51.19	-25	-26.19	-83.43	-52.71	10.48	12.00	V
	12722.50	-44.76	-25	-19.76	-79.17	-46.46	11.80	13.50	V
LTE Band66 Middle	3481	-57.98	-13	-44.98	-80.02	-64.83	5.65	12.50	H
	5221.5	-57.08	-13	-44.08	-81.96	-62.75	7.13	12.80	H
	6962	-51.87	-13	-38.87	-78.25	-55.27	8.40	11.80	H
	8702.5	-55.39	-13	-42.39	-82.51	-58.24	8.75	11.60	H
	10443	-50.93	-13	-37.93	-82.25	-52.35	10.58	12.00	H
	3481	-55.09	-13	-42.09	-77.8	-61.94	5.65	12.50	V
	5221.5	-54.44	-13	-41.44	-79.49	-60.11	7.13	12.80	V
	6962	-43.49	-13	-30.49	-70.42	-46.89	8.40	11.80	V
	8702.5	-42.17	-13	-29.17	-72.4	-45.02	8.75	11.60	V
	10443	-42.32	-13	-29.32	-75.72	-43.74	10.58	12.00	V

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

UL MIMO n41 SA / NR 100MHz+100MHz / QPSK(ANT0+3)									
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	-55.47	-25	-30.47	-79.75	-61.03	7.14	12.70	H
	7633.50	-54.05	-25	-29.05	-80.59	-57.35	8.30	11.60	H
	10178.00	-52.06	-25	-27.06	-83.08	-53.58	10.48	12.00	H
	12722.50	-47.97	-25	-22.97	-82.23	-49.67	11.80	13.50	H
	5089.00	-52.55	-25	-27.55	-77.81	-58.11	7.14	12.70	V
	7633.50	-45.42	-25	-20.42	-72.64	-48.72	8.30	11.60	V
	10178.00	-45.61	-25	-20.61	-77.85	-47.13	10.48	12.00	V
	12722.50	-34.20	-25	-9.20	-68.61	-35.90	11.80	13.50	V

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



n70 SA / NR 15MHz / QPSK(ANT0)									
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	3392	-55.74	-13	-42.74	-75.81	-62.59	5.65	12.50	H
	5088	-56.84	-13	-43.84	-81.00	-62.51	7.13	12.80	H
	6784	-46.97	-13	-33.97	-72.94	-50.37	8.40	11.80	H
	8480	-52.27	-13	-39.27	-77.89	-55.12	8.75	11.60	H
	10176	-49.74	-13	-36.74	-80.76	-51.16	10.58	12.00	H
	11872	-48.58	-13	-35.58	-82.15	-50.00	11.78	13.20	H
	3392	-54.30	-13	-41.30	-75.7	-61.15	5.65	12.50	V
	5088	-54.85	-13	-41.85	-80.11	-60.52	7.13	12.80	V
	6784	-32.31	-13	-19.31	-60.65	-35.71	8.40	11.80	V
	8480	-39.96	-13	-26.96	-68.63	-42.81	8.75	11.60	V
	10176	-40.26	-13	-27.26	-72.5	-41.68	10.58	12.00	V
	11872	-40.87	-13	-27.87	-77.66	-42.29	11.78	13.20	V

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

n71 SA / NR 15MHz / QPSK(ANT0)									
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	1342	-63.35	-13	-50.35	-74.36	-66.60	4.00	9.40	H
	2013	-62.09	-13	-49.09	-79.80	-65.66	4.88	10.60	H
	2684	-60.14	-13	-47.14	-79.77	-65.07	5.52	12.60	H
	3355	-60.35	-13	-47.35	-81.27	-64.82	6.00	12.62	H
	4026	-57.75	-13	-44.75	-81.17	-61.16	7.14	12.70	H
	4697	-56.66	-13	-43.66	-81.15	-59.89	7.62	13.00	H
	5368	-55.95	-13	-42.95	-81.21	-58.50	8.00	12.70	H
	6039	-54.43	-13	-41.43	-80.18	-55.38	8.40	11.50	H
	1342	-64.90	-13	-51.90	-76.86	-68.15	4.00	9.40	V
	2013	-61.94	-13	-48.94	-79.54	-65.51	4.88	10.60	V
	2684	-59.48	-13	-46.48	-79.57	-64.41	5.52	12.60	V
	3355	-59.90	-13	-46.90	-81.47	-64.37	6.00	12.62	V
	4026	-56.33	-13	-43.33	-81.13	-59.74	7.14	12.70	V
	4697	-56.44	-13	-43.44	-81.22	-59.67	7.62	13.00	V
	5368	-54.46	-13	-41.46	-79.06	-57.01	8.00	12.70	V
	6039	-48.54	-13	-35.54	-75.40	-49.49	8.40	11.50	V

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



EN-DC_66A_n71A / LTE 10MHz + NR 20MHz / QPSK (ANT3+0)									
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 n71 Middle	1342	-66.13	-13	-53.13	-77.14	-69.38	4.00	9.40	H
	2013	-61.92	-13	-48.92	-79.63	-65.49	4.88	10.60	H
	2684	-61.93	-13	-48.93	-81.56	-66.86	5.52	12.60	H
	1342	-65.47	-13	-52.47	-77.43	-68.72	4.00	9.40	V
	2013	-61.97	-13	-48.97	-79.57	-65.54	4.88	10.60	V
	2684	-61.15	-13	-48.15	-81.24	-66.08	5.52	12.60	V
LTE Band66 Middle	3481	-60.17	-13	-47.17	-82.21	-67.02	5.65	12.50	H
	5221.5	-57.13	-13	-44.13	-82.01	-62.80	7.13	12.80	H
	6962	-54.97	-13	-41.97	-81.35	-58.37	8.40	11.80	H
	8702.5	-54.66	-13	-41.66	-81.78	-57.51	8.75	11.60	H
	10443	-50.93	-13	-37.93	-82.25	-52.35	10.58	12.00	H
	12183.5	-48.63	-13	-35.63	-82.53	-50.05	11.78	13.20	H
	3481	-59.35	-13	-46.35	-82.06	-66.20	5.65	12.50	V
	5221.5	-56.56	-13	-43.56	-81.61	-62.23	7.13	12.80	V
	6962	-52.47	-13	-39.47	-79.4	-55.87	8.40	11.80	V
	8702.5	-49.86	-13	-36.86	-80.09	-52.71	8.75	11.60	V
	10443	-46.07	-13	-33.07	-79.47	-47.49	10.58	12.00	V
	12183.5	-45.38	-13	-32.38	-81.02	-46.80	11.78	13.20	V

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