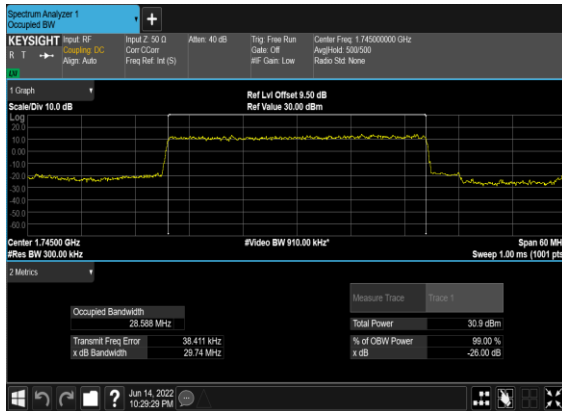
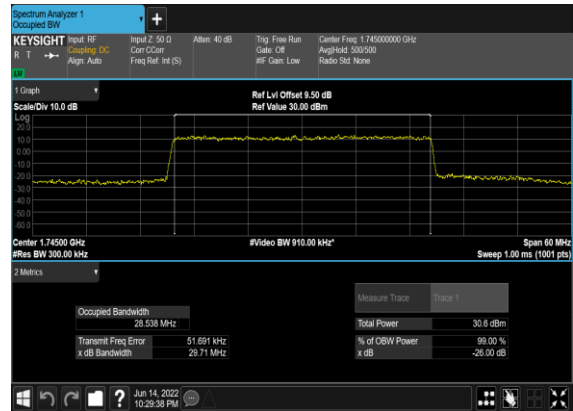


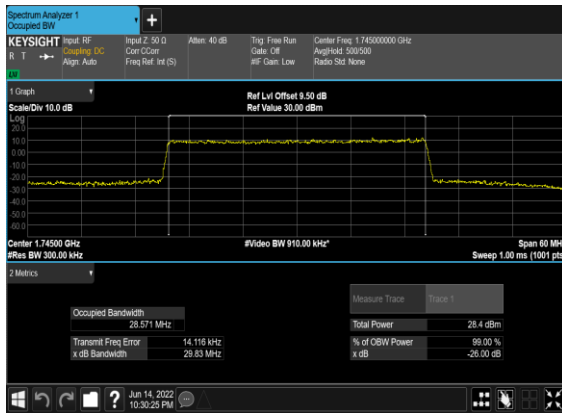
N66(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



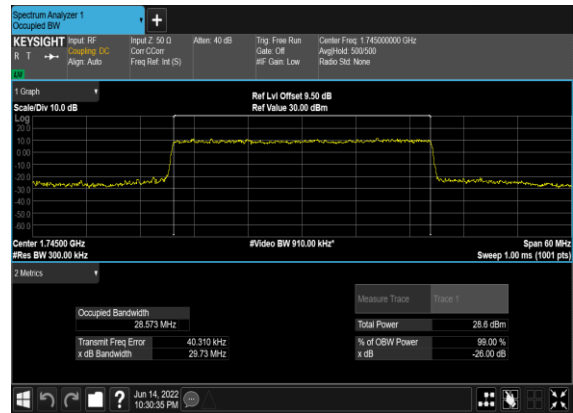
N66(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



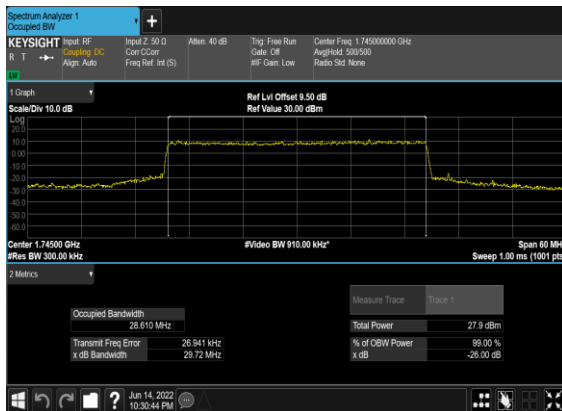
N66(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



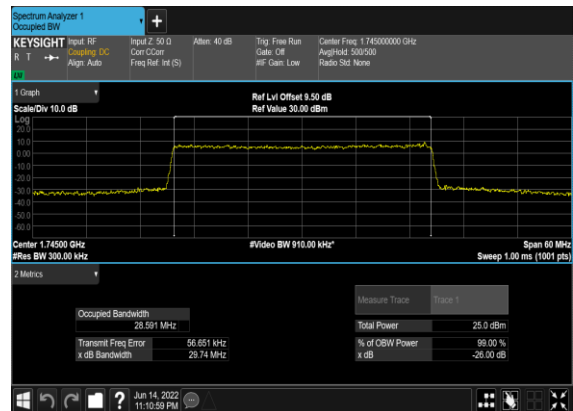
N66(30M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



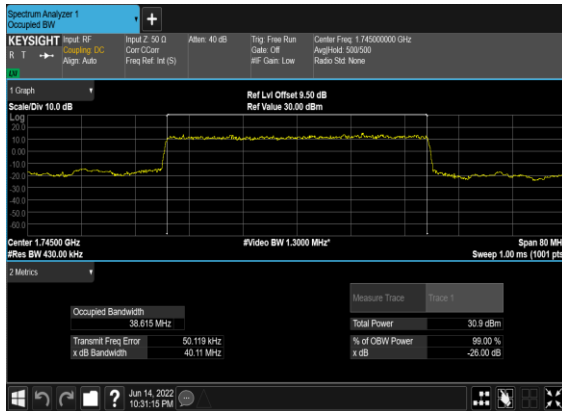
N66(30M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



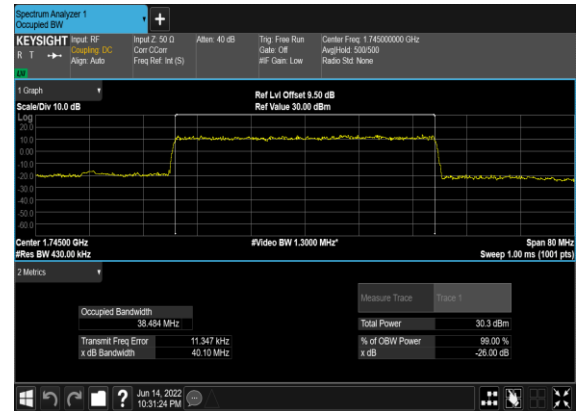
N66(30M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



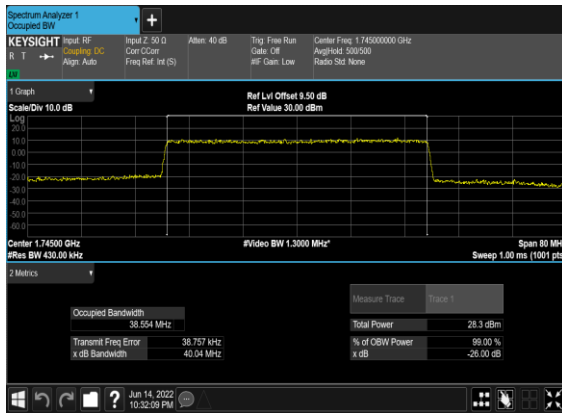
N66(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



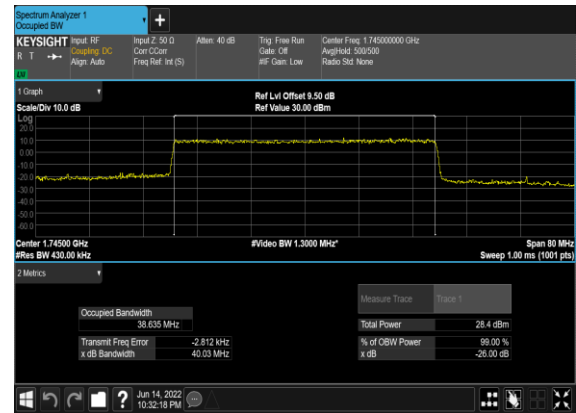
N66(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



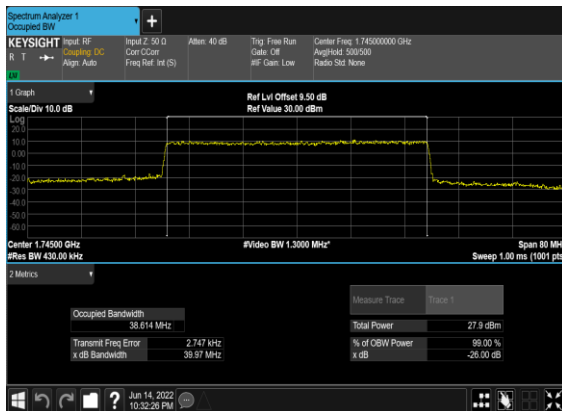
N66(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



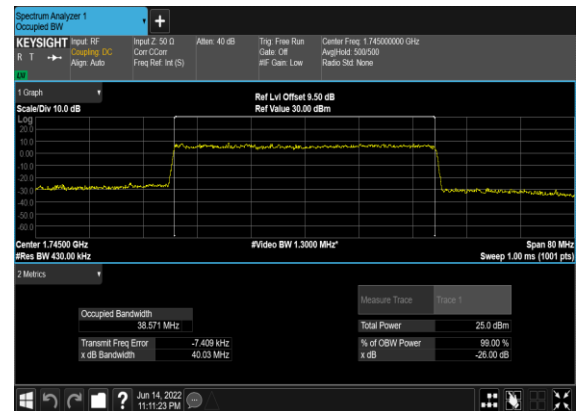
N66(40M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N66(40M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



N66(40M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

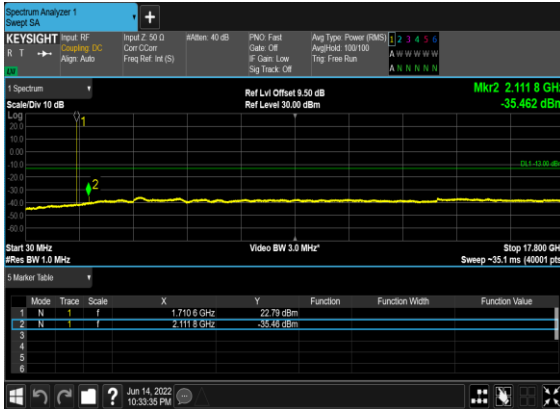


Conducted Spurious Emissions

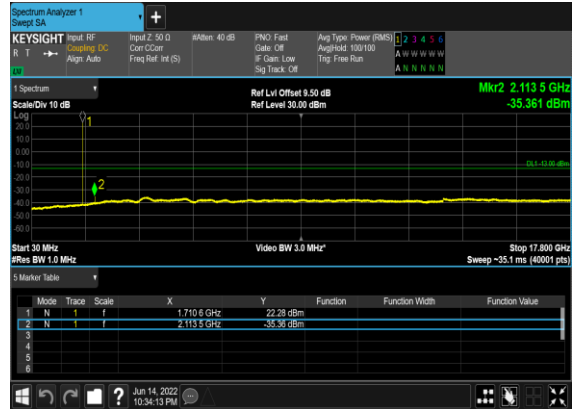
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph	---
66	15	5	422500	1712.5	DFT-s-OFDM QPSK	1@0	see graph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

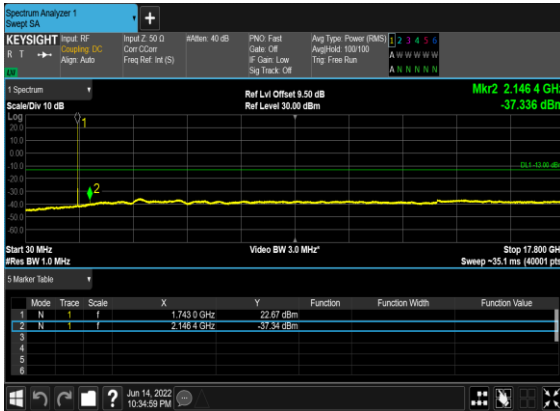
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



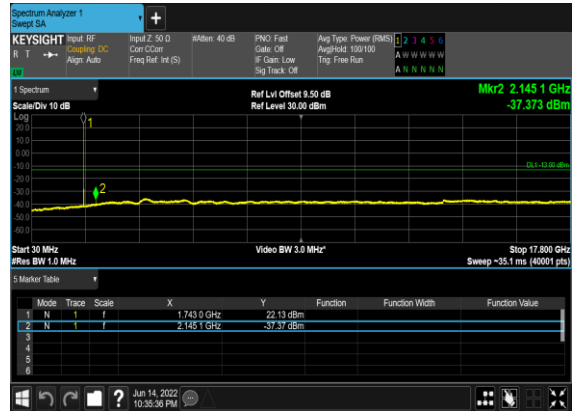
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



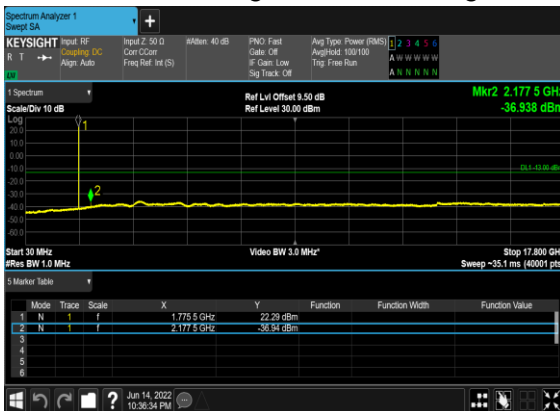
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



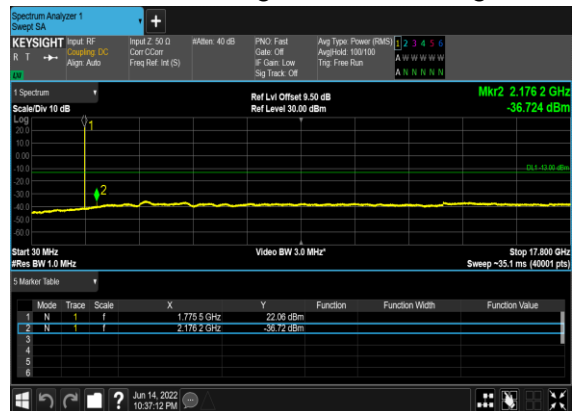
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



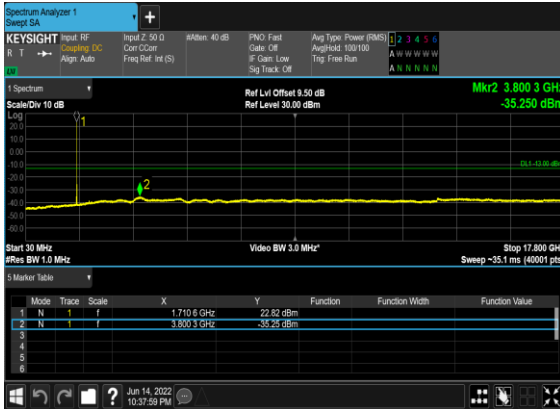
N66(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



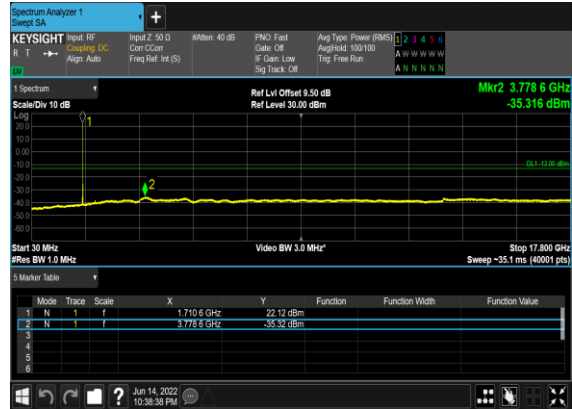
N66(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



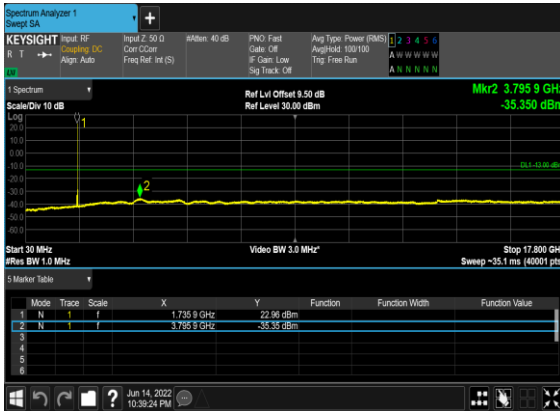
N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



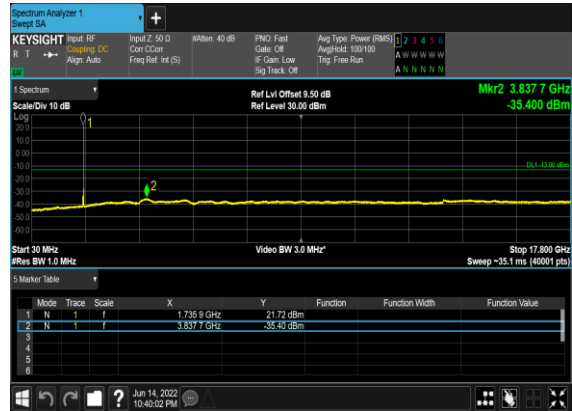
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



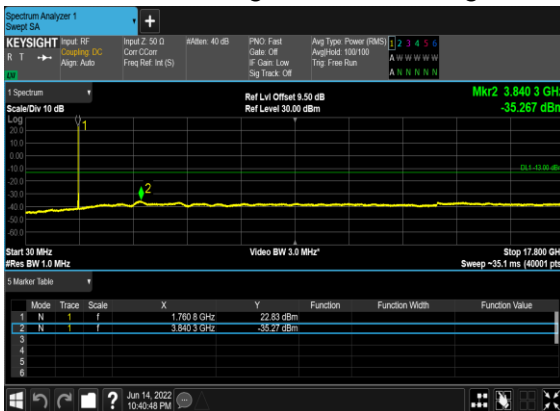
N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



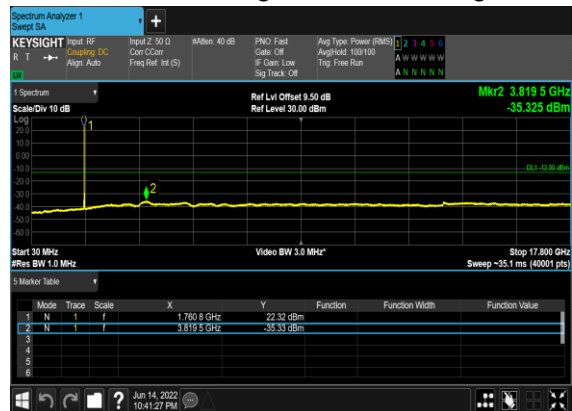
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



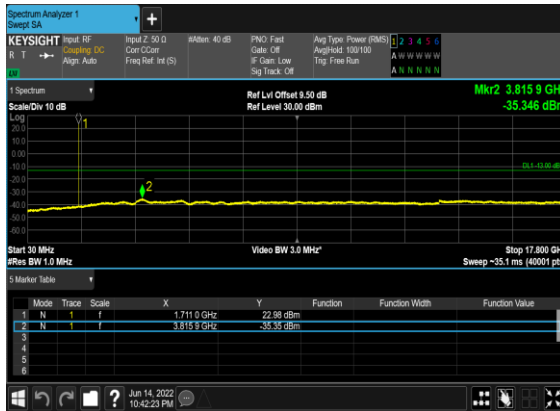
N66(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



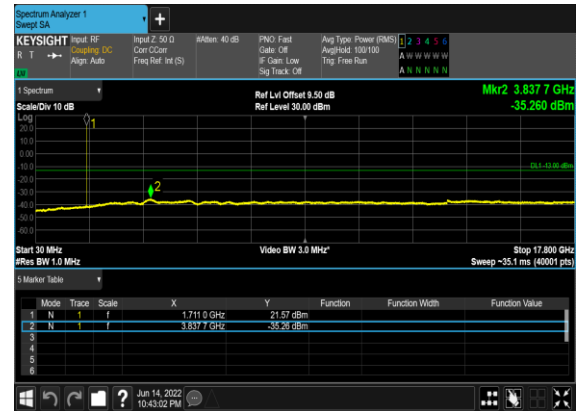
N66(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



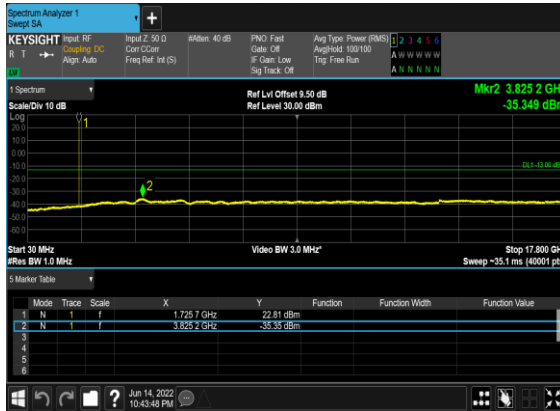
N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



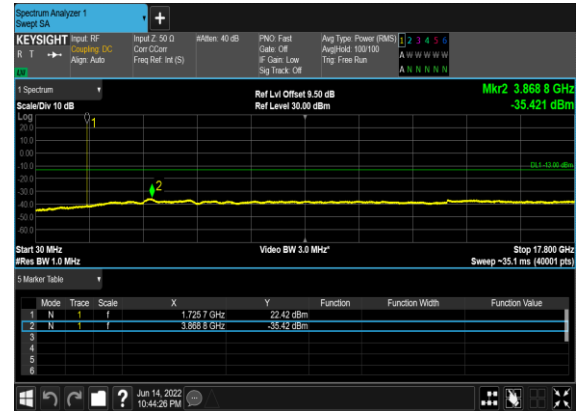
N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



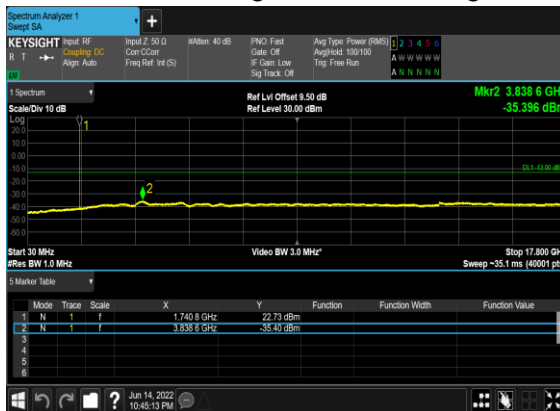
N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



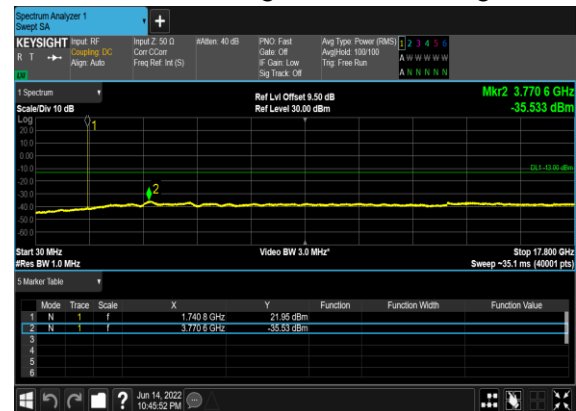
N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N66(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N66(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



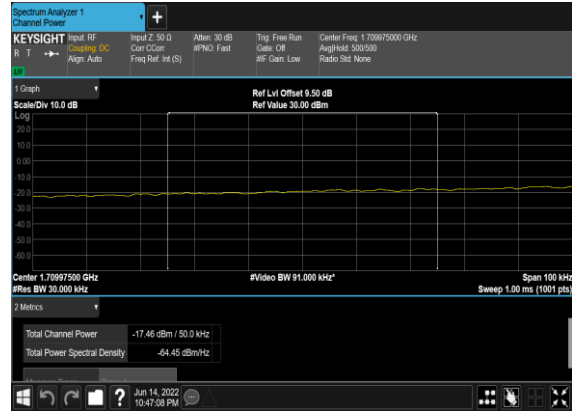
Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
66	15	5	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

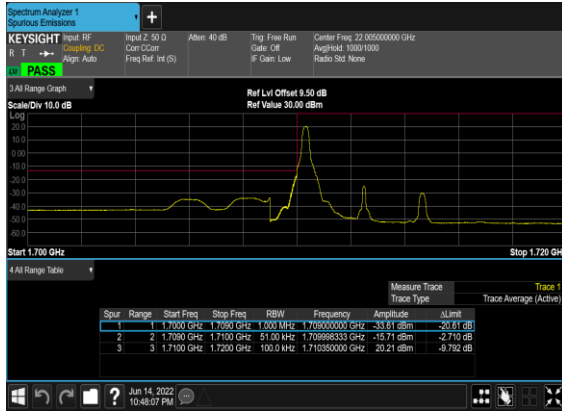
N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



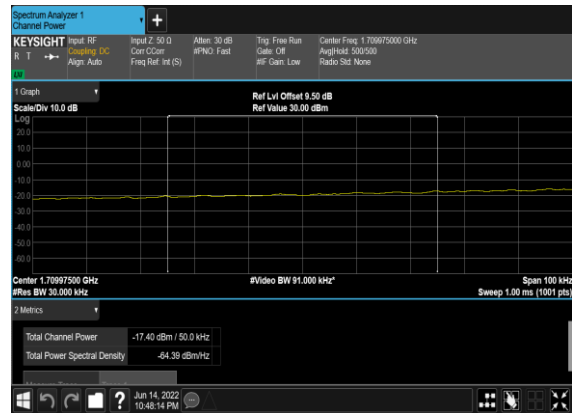
N66(5M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



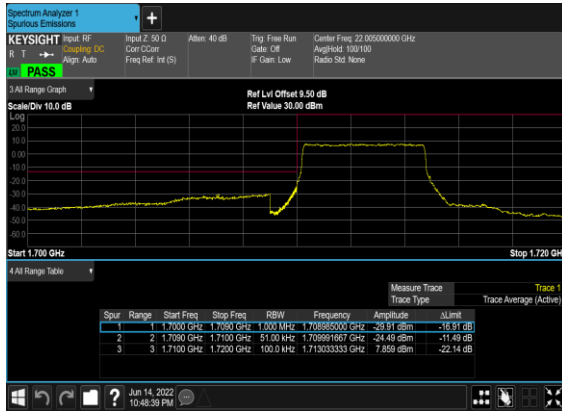
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



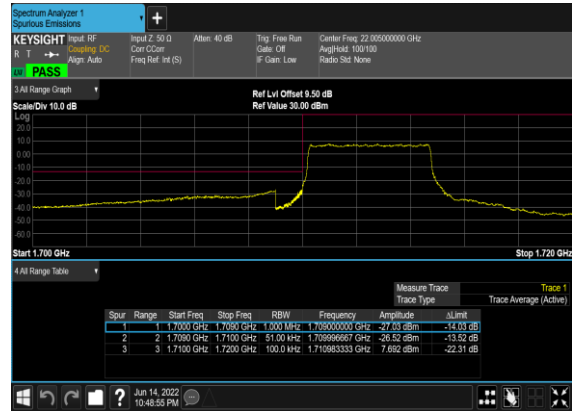
N66(5M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



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



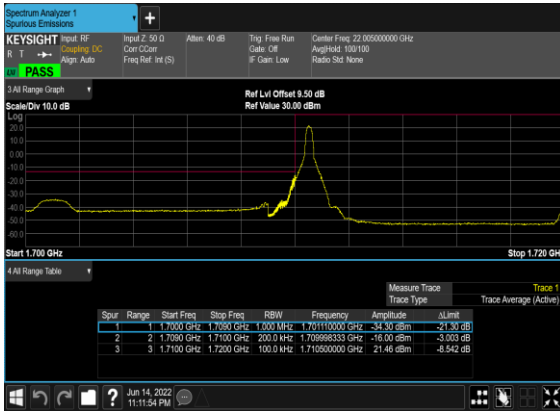
N66(5M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



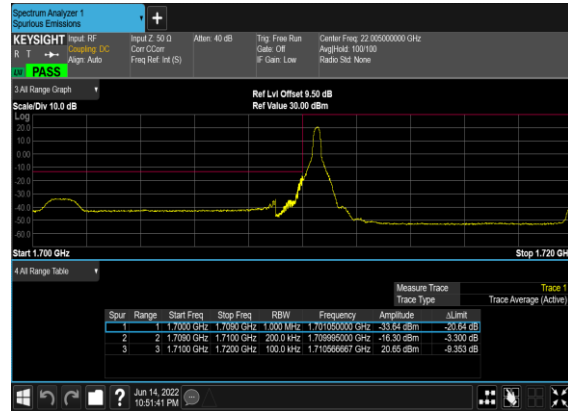
N66(5M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



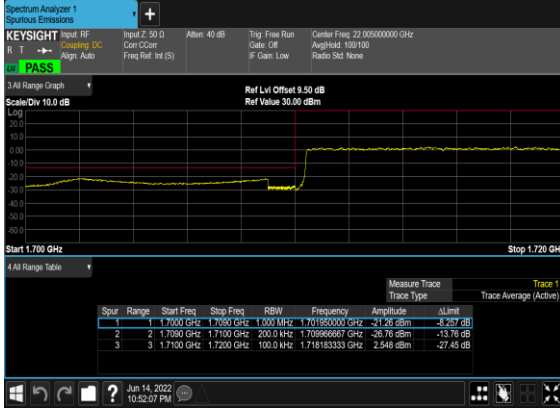
N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



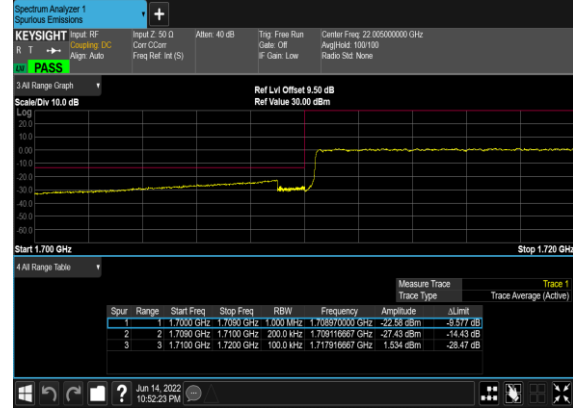
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



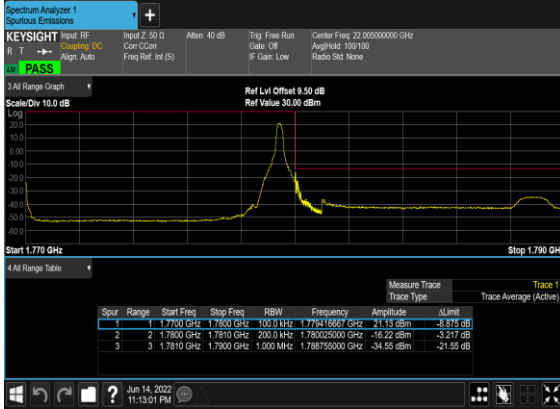
N66(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N66(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N66(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



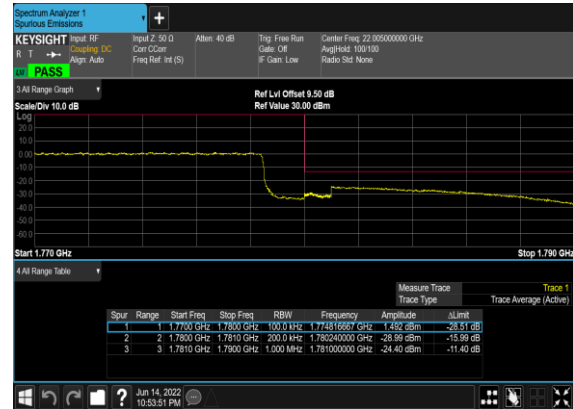
N66(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



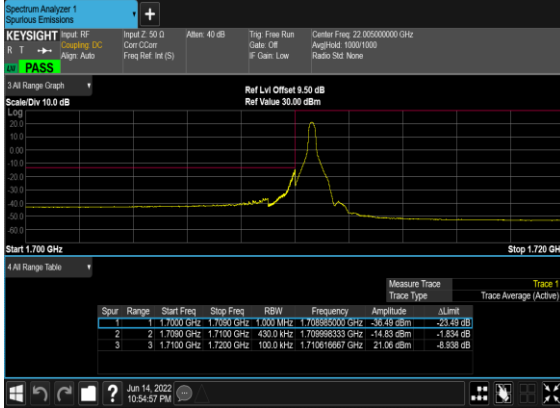
N66(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



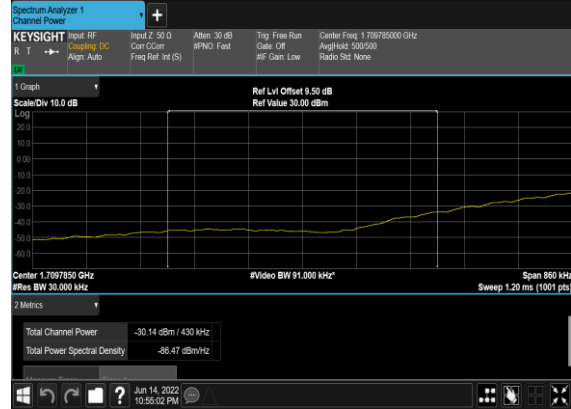
N66(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



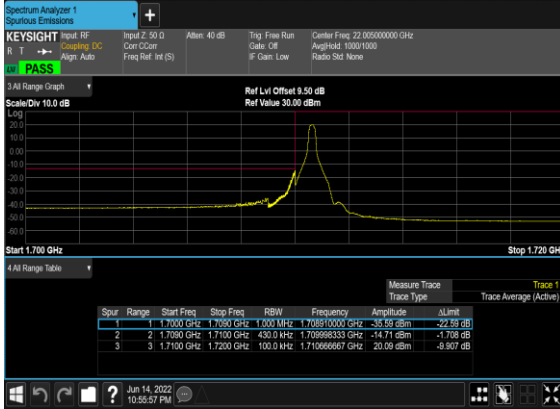
N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



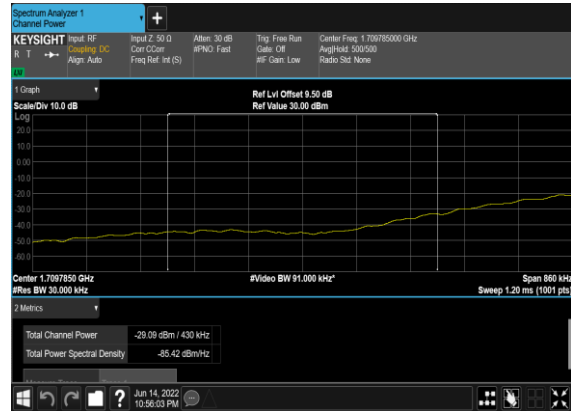
N66(40M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



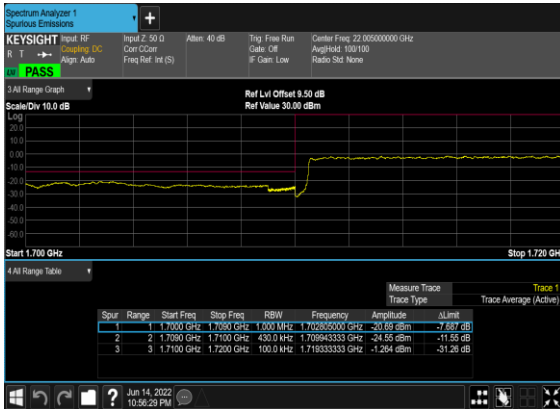
N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



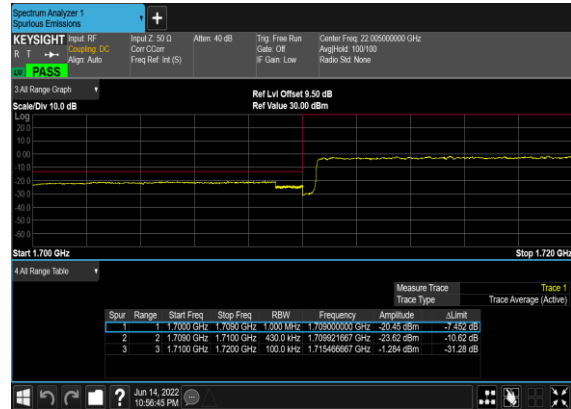
N66(40M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH_CHP_PA
SS



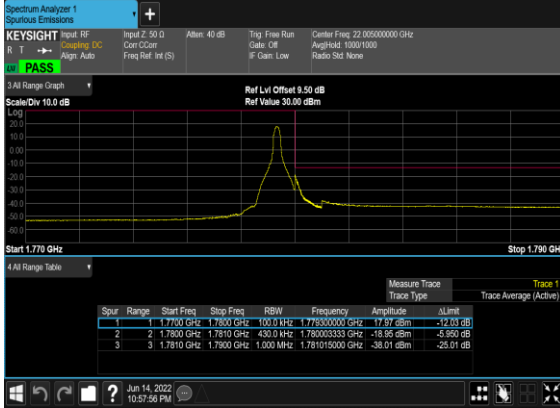
N66(40M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



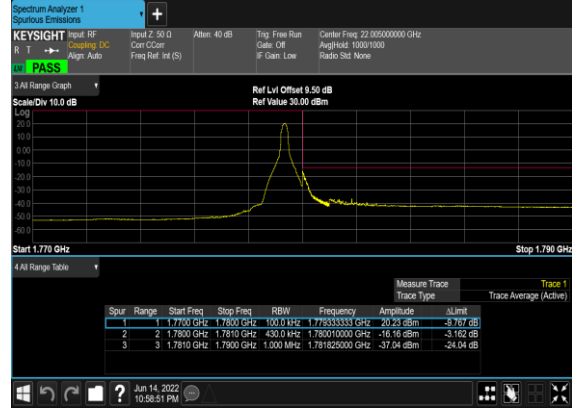
N66(40M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



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





Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Chris Chen	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.

SA n5 / NR 20MHz / 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)
Lowest	1648	-65.39	-13	-52.39	-72.36	1.58	10.70	H
	2472	-60.85	-13	-47.85	-69.10	2.10	12.50	H
	3304	-60.26	-13	-47.26	-69.15	2.86	13.90	H
	1648	-64.56	-13	-51.56	-71.53	1.58	10.70	V
	2472	-59.18	-13	-46.18	-67.43	2.10	12.50	V
	3304	-59.88	-13	-46.88	-68.77	2.86	13.90	V
Middle	1656	-65.36	-13	-52.36	-72.33	1.58	10.70	H
	2480	-60.21	-13	-47.21	-68.46	2.10	12.50	H
	3312	-59.80	-13	-46.80	-68.69	2.86	13.90	H
	1656	-64.08	-13	-51.08	-71.05	1.58	10.70	V
	2480	-58.92	-13	-45.92	-67.17	2.10	12.50	V
	3312	-59.50	-13	-46.50	-68.39	2.86	13.90	V
Highest	1656	-65.20	-13	-52.20	-72.17	1.58	10.70	H
	2488	-60.65	-13	-47.65	-68.90	2.10	12.50	H
	3320	-59.73	-13	-46.73	-68.62	2.86	13.90	H
	1656	-63.97	-13	-50.97	-70.94	1.58	10.70	V
	2488	-59.20	-13	-46.20	-67.45	2.10	12.50	V
	3320	-60.34	-13	-47.34	-69.23	2.86	13.90	V

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



EN-DC_2A_n5A / LTE 20MHz + NR 20MHz / QPSK / ANT4(LTE) & ANT3(NR)								
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)
Lowest	1648	-64.21	-13	-51.21	-71.18	1.58	10.70	H
	2472	-53.00	-13	-40.00	-61.25	2.10	12.50	H
	3304	-60.84	-13	-47.84	-69.73	2.86	13.90	H
	1648	-64.46	-13	-51.46	-71.43	1.58	10.70	V
	2472	-51.97	-13	-38.97	-60.22	2.10	12.50	V
	3304	-60.80	-13	-47.80	-69.69	2.86	13.90	V
Middle	1656	-65.86	-13	-52.86	-72.83	1.58	10.70	H
	2480	-52.91	-13	-39.91	-61.16	2.10	12.50	H
	3312	-60.86	-13	-47.86	-69.75	2.86	13.90	H
	1656	-64.95	-13	-51.95	-71.92	1.58	10.70	V
	2480	-48.86	-13	-35.86	-57.11	2.10	12.50	V
	3312	-60.69	-13	-47.69	-69.58	2.86	13.90	V
Highest	1664	-64.72	-13	-51.72	-71.69	1.58	10.70	H
	2488	-54.30	-13	-41.30	-62.55	2.10	12.50	H
	3320	-60.58	-13	-47.58	-69.47	2.86	13.90	H
	1664	-64.58	-13	-51.58	-71.55	1.58	10.70	V
	2488	-51.15	-13	-38.15	-59.40	2.10	12.50	V
	3320	-60.64	-13	-47.64	-69.53	2.86	13.90	V

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



SA n12 / NR 15MHz / 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)
Lowest	1400	-65.09	-13	-52.09	-72.06	1.58	10.70	H
	2104	-50.55	-13	-37.55	-58.80	2.102	12.50	H
	2800	-59.47	-13	-46.47	-68.36	2.856	13.90	H
	1400	-66.37	-13	-53.37	-73.34	1.58	10.70	V
	2104	-56.47	-13	-43.47	-64.72	2.10	12.50	V
	2800	-58.97	-13	-45.97	-67.86	2.86	13.90	V
Middle	1400	-65.09	-13	-52.09	-72.06	1.58	10.70	H
	2104	-50.55	-13	-37.55	-58.80	2.102	12.50	H
	2800	-59.47	-13	-46.47	-68.36	2.856	13.90	H
	1400	-66.37	-13	-53.37	-73.34	1.58	10.70	V
	2104	-56.47	-13	-43.47	-64.72	2.10	12.50	V
	2800	-58.97	-13	-45.97	-67.86	2.86	13.90	V
Highest	1400	-64.25	-13	-51.25	-71.22	1.58	10.70	H
	2104	-51.49	-13	-38.49	-59.74	2.102	12.50	H
	2808	-59.06	-13	-46.06	-67.95	2.856	13.90	H
	1400	-66.10	-13	-53.10	-73.07	1.58	10.70	V
	2104	-55.96	-13	-42.96	-64.21	2.10	12.50	V
	2808	-59.22	-13	-46.22	-68.11	2.86	13.90	V

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



SA n25 / NR 40MHz / 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)
Lowest	3705	-55.84	-13	-42.84	-68.10	2.64	14.90	H
	5550	-54.33	-13	-41.33	-66.19	2.94	14.80	H
	7410	-51.70	-13	-38.70	-61.47	3.39	13.16	H
	3705	-55.78	-13	-42.78	-68.04	2.64	14.90	V
	5550	-52.40	-13	-39.40	-64.26	2.94	14.80	V
	7410	-51.37	-13	-38.37	-61.14	3.39	13.16	V
Middle	3730	-56.39	-13	-43.39	-68.65	2.64	14.90	H
	5595	-54.15	-13	-41.15	-66.01	2.94	14.80	H
	7455	-52.07	-13	-39.07	-61.84	3.39	13.16	H
	3730	-56.45	-13	-43.45	-68.71	2.64	14.90	V
	5595	-53.38	-13	-40.38	-65.24	2.94	14.80	V
	7455	-51.75	-13	-38.75	-61.52	3.39	13.16	V
Highest	3750	-55.84	-13	-42.84	-68.10	2.64	14.90	H
	5625	-54.11	-13	-41.11	-65.97	2.94	14.80	H
	7515	-51.77	-13	-38.77	-61.54	3.39	13.16	H
	3750	-55.51	-13	-42.51	-67.77	2.64	14.90	V
	5625	-54.39	-13	-41.39	-66.25	2.94	14.80	V
	7515	-51.49	-13	-38.49	-61.26	3.39	13.16	V

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



SA n66 / NR 40MHz / 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)
Lowest	3420	-57.27	-13	-44.27	-68.01	2.604	13.34	H
	5130	-53.88	-13	-40.88	-64.39	3.011	13.52	H
	6855	-53.40	-13	-40.40	-63.60	3.271	13.47	H
	3420	-57.43	-13	-44.43	-68.17	2.604	13.34	V
	5130	-53.99	-13	-40.99	-64.50	3.011	13.52	V
	6855	-53.14	-13	-40.14	-63.34	3.271	13.47	V
Middle	3454	-56.96	-13	-43.96	-67.70	2.604	13.34	H
	5180	-53.80	-13	-40.80	-64.31	3.011	13.52	H
	6910	-53.06	-13	-40.06	-63.26	3.271	13.47	H
	3454	-57.37	-13	-44.37	-68.11	2.604	13.34	V
	5180	-53.93	-13	-40.93	-64.44	3.011	13.52	V
	6910	-52.68	-13	-39.68	-62.88	3.271	13.47	V
Highest	3480	-56.85	-13	-43.85	-67.59	2.604	13.34	H
	5220	-54.28	-13	-41.28	-64.79	3.011	13.52	H
	6975	-52.68	-13	-39.68	-62.88	3.271	13.47	H
	3480	-57.35	-13	-44.35	-68.09	2.604	13.34	V
	5220	-54.35	-13	-41.35	-64.86	3.011	13.52	V
	6975	-53.17	-13	-40.17	-63.37	3.271	13.47	V

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