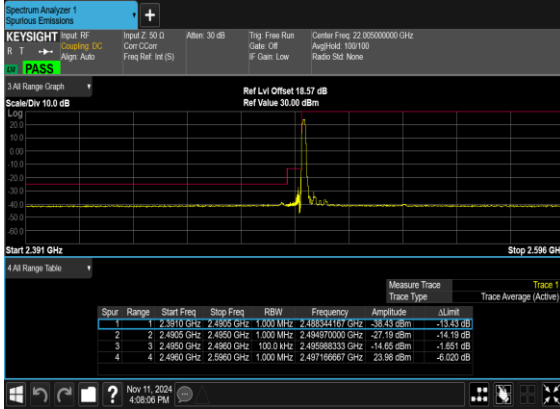
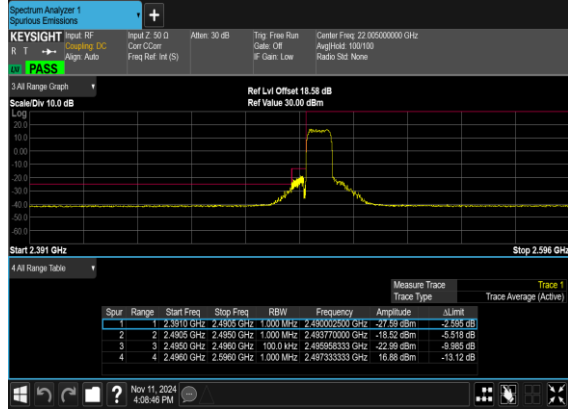




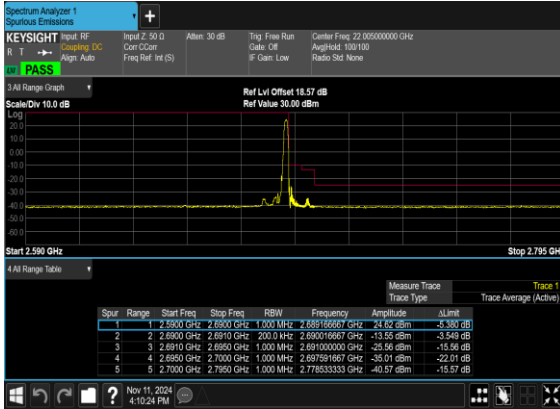
N41(10M)_CP- OFDM_QPSK_Edge_1RB_Left_Low_CH



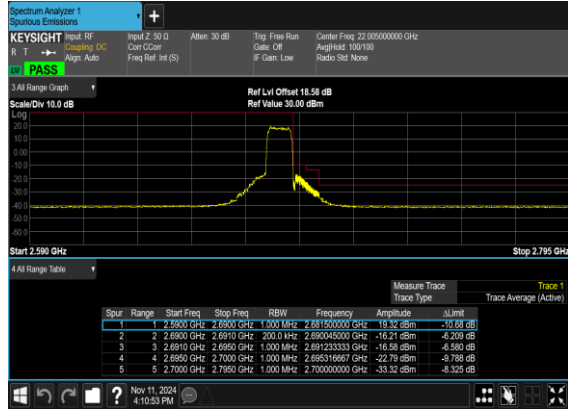
N41(10M)_CP- OFDM_QPSK_Outer_Full_Low_CH



N41(10M)_CP- OFDM_QPSK_Edge_1RB_Right_High_CH

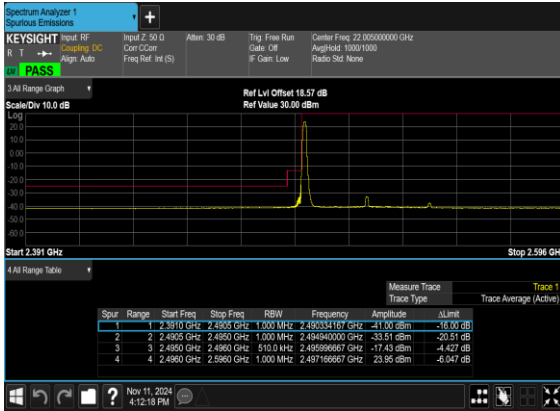


N41(10M)_CP- OFDM_QPSK_Outer_Full_High_CH

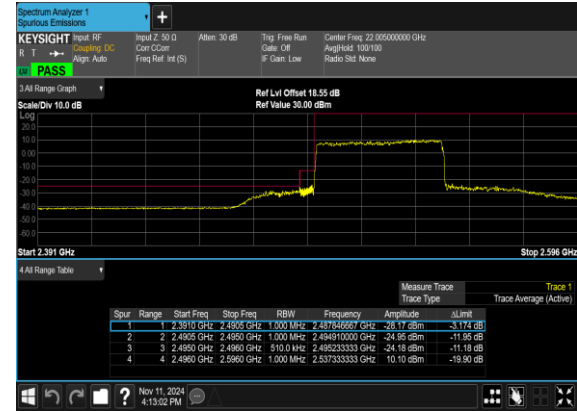




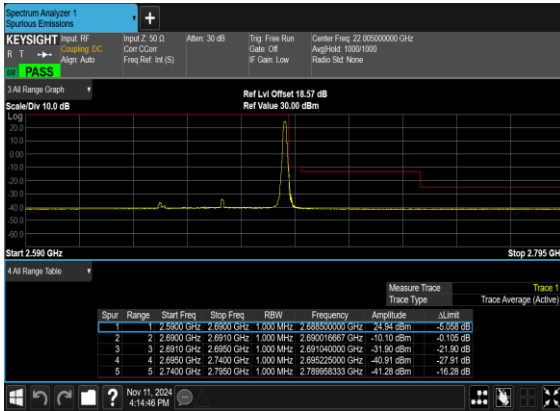
N41(50M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



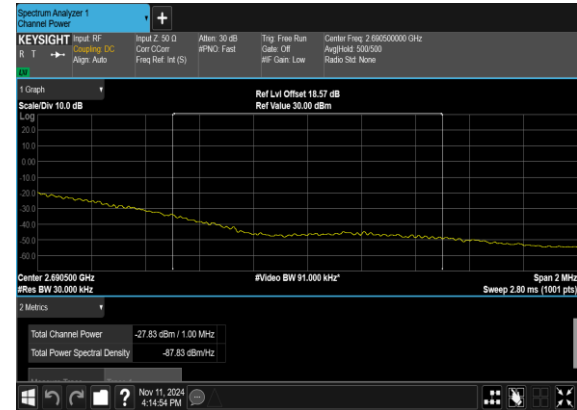
N41(50M)_CP-
OFDM_QPSK_Outer_Full_Low_CH



N41(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH

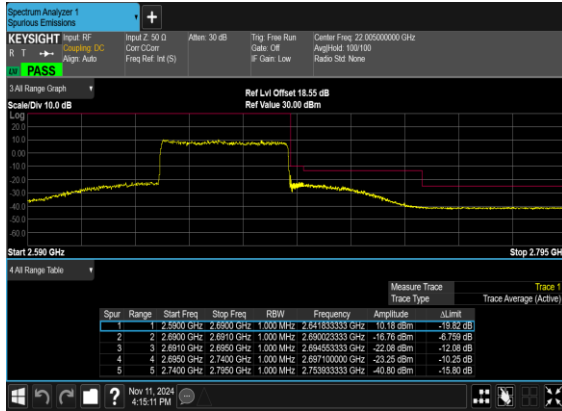


N41(50M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH
_PASS





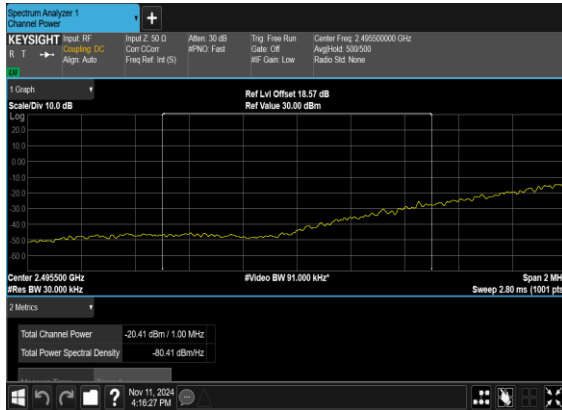
N41(50M)_CP-
OFDM_QPSK_Outer_Full_High_CH



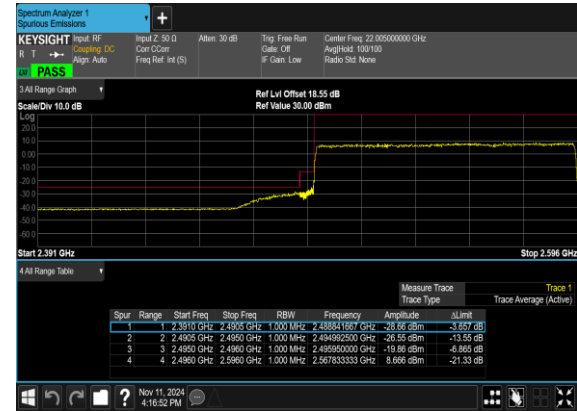
N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Left_Low_CH_chp
_PASS

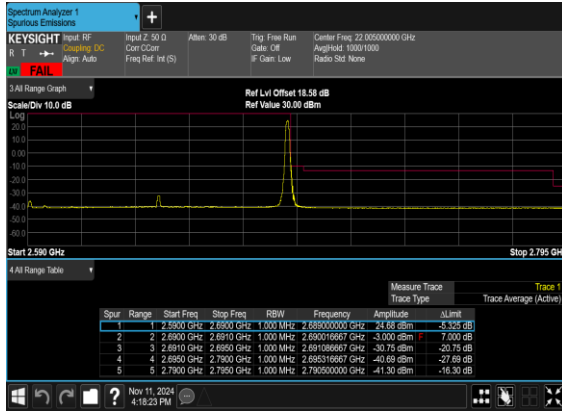


N41(100M)_CP-
OFDM_QPSK_Outer_Full_Low_CH

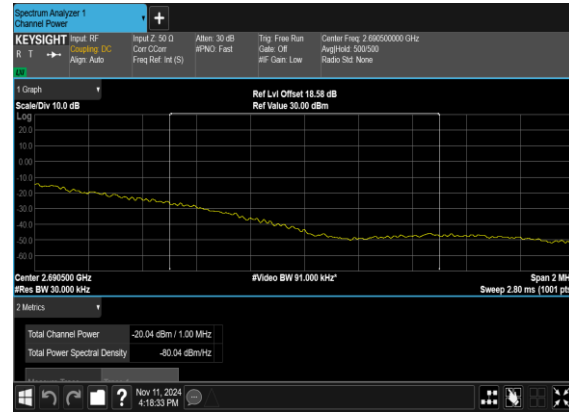




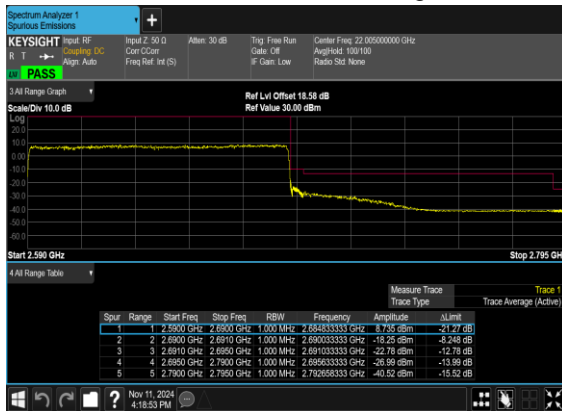
N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH



N41(100M)_CP-
OFDM_QPSK_Edge_1RB_Right_High_CH_Chp
_PASS



N41(100M)_CP-
OFDM_QPSK_Outer_Full_High_CH





Software Version: 23.06.1602

FR1 N38(Ant.9)

Transmitter Conducted Output Power and EIRP, (G_T - L_c)= -0.2dB

NR Band	SCS	Band Width	Arfcn	Freq(M Hz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
38	30	10	515000	2575	DFT-s-OFDM QPSK	12@6	23.05	22.85	0.1928
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@1	23.01	22.81	0.1910
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@22	23.11	22.91	0.1954
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	12@6	22.66	22.46	0.1762
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@1	22.63	22.43	0.1750
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@22	22.71	22.51	0.1782
38	30	10	519000	2595	DFT-s-OFDM QPSK	12@6	23	22.8	0.1905
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@1	23.01	22.81	0.1910
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@22	23.23	23.03	0.2009
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	12@6	22.6	22.4	0.1738
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.68	22.48	0.1770
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@22	22.76	22.56	0.1803
38	30	10	523000	2615	DFT-s-OFDM QPSK	12@6	23.15	22.95	0.1972
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@1	23.15	22.95	0.1972
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@22	23.05	22.85	0.1928
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	12@6	22.67	22.47	0.1766
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@1	22.61	22.41	0.1742
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@22	22.82	22.62	0.1828
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	18@9	23.3	23.1	0.2042
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@1	23.14	22.94	0.1968
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@36	23.12	22.92	0.1959
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	18@9	22.98	22.78	0.1897
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@1	22.81	22.61	0.1824
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@36	22.93	22.73	0.1875
38	30	15	519000	2595	DFT-s-OFDM QPSK	18@9	23.11	22.91	0.1954
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@1	23.02	22.82	0.1914
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@36	23.2	23	0.1995
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	18@9	22.77	22.57	0.1807
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.56	22.36	0.1722
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@36	22.75	22.55	0.1799
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	18@9	23.13	22.93	0.1963
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@1	23.08	22.88	0.1941
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@36	23.15	22.95	0.1972
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	18@9	22.78	22.58	0.1811
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@1	22.56	22.36	0.1722
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@36	22.75	22.55	0.1799
38	30	20	516000	2580	DFT-s-OFDM QPSK	25@12	23.25	23.05	0.2018
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@1	23.15	22.95	0.1972
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@49	23.21	23.01	0.2000
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	25@12	22.9	22.7	0.1862



38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	22.85	22.65	0.1841
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@49	22.74	22.54	0.1795
38	30	20	519000	2595	DFT-s-OFDM QPSK	25@12	23.11	22.91	0.1954
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@1	23.15	22.95	0.1972
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@49	23.22	23.02	0.2004
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	25@12	22.75	22.55	0.1799
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.71	22.51	0.1782
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@49	22.56	22.36	0.1722
38	30	20	522000	2610	DFT-s-OFDM QPSK	25@12	23.1	22.9	0.1950
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@1	23.15	22.95	0.1972
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@49	23.03	22.83	0.1919
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	25@12	22.72	22.52	0.1786
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	22.74	22.54	0.1795
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@49	22.75	22.55	0.1799
38	30	30	517000	2585	DFT-s-OFDM QPSK	36@18	23.29	23.09	0.2037
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@1	23.15	22.95	0.1972
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@76	23.23	23.03	0.2009
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	36@18	22.96	22.76	0.1888
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	22.82	22.62	0.1828
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@76	22.76	22.56	0.1803
38	30	30	519000	2595	DFT-s-OFDM QPSK	36@18	23.17	22.97	0.1982
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@1	23.08	22.88	0.1941
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@76	23.11	22.91	0.1954
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	36@18	22.87	22.67	0.1849
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	22.81	22.61	0.1824
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@76	22.82	22.62	0.1828
38	30	30	521000	2605	DFT-s-OFDM QPSK	36@18	23.1	22.9	0.1950
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@1	23.04	22.84	0.1923
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@76	23.22	23.02	0.2004
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	36@18	22.83	22.63	0.1832
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	22.56	22.36	0.1722
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@76	22.68	22.48	0.1770
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	50@25	23.01	22.81	0.1910
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	23.21	23.01	0.2000
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@104	23.32	23.12	0.2051
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	23.02	22.82	0.1914
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	23.19	22.99	0.1991
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	23.31	23.11	0.2046



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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

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

n7 SA / NR 50MHz / QPSK(ANT9)								
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	4995	-51.35	-25	-26.35	-61.56	3.03	13.24	H
	7500	-52.53	-25	-27.53	-61.98	3.56	13.01	H
	10005	-60.44	-25	-35.44	-69.96	3.92	13.44	H
	4995	-50.98	-25	-25.98	-61.19	3.03	13.24	V
	7500	-53.06	-25	-28.06	-62.51	3.56	13.01	V
	10005	-61.05	-25	-36.05	-70.57	3.92	13.44	V
Middle	5025	-51.70	-25	-26.70	-61.91	3.03	13.24	H
	7545	-52.61	-25	-27.61	-62.06	3.56	13.01	H
	10065	-60.46	-25	-35.46	-69.98	3.92	13.44	H
	5025	-51.93	-25	-26.93	-62.14	3.03	13.24	V
	7545	-53.29	-25	-28.29	-62.74	3.56	13.01	V
	10065	-60.83	-25	-35.83	-70.35	3.92	13.44	V
Highest	5055	-52.97	-25	-27.97	-63.18	3.03	13.24	H
	7590	-52.01	-25	-27.01	-61.46	3.56	13.01	H
	10125	-60.13	-25	-35.13	-69.65	3.92	13.44	H
	5055	-52.41	-25	-27.41	-62.62	3.03	13.24	V
	7590	-53.25	-25	-28.25	-62.70	3.56	13.01	V
	10125	-60.97	-25	-35.97	-70.49	3.92	13.44	V

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



n41 SA / NR 100MHz / 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	4995	-48.17	-25	-23.17	-58.38	3.03	13.24	H
	7485	-46.94	-25	-21.94	-56.39	3.56	13.01	H
	9990	-53.10	-25	-28.10	-62.62	3.92	13.44	H
	4995	-50.74	-25	-25.74	-60.95	3.03	13.24	V
	7485	-49.74	-25	-24.74	-59.19	3.56	13.01	V
	9990	-54.90	-25	-29.90	-64.42	3.92	13.44	V
Middle	5085	-50.75	-25	-25.75	-60.96	3.03	13.24	H
	7635	-44.52	-25	-19.52	-53.97	3.56	13.01	H
	10170	-51.14	-25	-26.14	-60.66	3.92	13.44	H
	5085	-51.46	-25	-26.46	-61.67	3.03	13.24	V
	7635	-44.05	-25	-19.05	-53.50	3.56	13.01	V
	10170	-52.16	-25	-27.16	-61.68	3.92	13.44	V
Highest	5175	-56.99	-25	-31.99	-67.20	3.03	13.24	H
	7770	-45.58	-25	-20.58	-55.03	3.56	13.01	H
	10365	-45.19	-25	-20.19	-54.71	3.92	13.44	H
	5175	-56.25	-25	-31.25	-66.46	3.03	13.24	V
	7770	-47.14	-25	-22.14	-56.59	3.56	13.01	V
	10365	-49.18	-25	-24.18	-58.70	3.92	13.44	V

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

EN-DC_12A_n7A / LTE 10MHz + NR 50MHz / QPSK (ANT1+9)								
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	5010	-61.58	-25	-36.58	-71.79	3.03	13.24	H
	7500	-60.93	-25	-35.93	-70.38	3.56	13.01	H
	10005	-60.01	-25	-35.01	-69.53	3.92	13.44	H
	5010	-61.47	-25	-36.47	-71.68	3.03	13.24	V
	7500	-61.33	-25	-36.33	-70.78	3.56	13.01	V
	10005	-60.38	-25	-35.38	-69.90	3.92	13.44	V
Middle	5040	-62.03	-25	-37.03	-72.24	3.03	13.24	H
	7545	-61.60	-25	-36.60	-71.05	3.56	13.01	H
	10065	-60.15	-25	-35.15	-69.67	3.92	13.44	H
	5040	-61.92	-25	-36.92	-72.13	3.03	13.24	V
	7545	-61.25	-25	-36.25	-70.70	3.56	13.01	V
	10065	-60.43	-25	-35.43	-69.95	3.92	13.44	V
Highest	5070	-62.01	-25	-37.01	-72.22	3.03	13.24	H
	7590	-60.69	-25	-35.69	-70.14	3.56	13.01	H
	10125	-59.92	-25	-34.92	-69.44	3.92	13.44	H
	5070	-62.25	-25	-37.25	-72.46	3.03	13.24	V
	7590	-61.18	-25	-36.18	-70.63	3.56	13.01	V
	10125	-59.84	-25	-34.84	-69.36	3.92	13.44	V

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



EN-DC_25A_n41A / LTE 20MHz + NR 100MHz / QPSK (ANT0+1) for Other PA								
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	4995	-52.84	-25	-27.84	-63.05	3.03	13.24	H
	7500	-60.99	-25	-35.99	-70.44	3.56	13.01	H
	9990	-56.10	-25	-31.10	-65.62	3.92	13.44	H
	4995	-52.97	-25	-27.97	-63.18	3.03	13.24	V
	7500	-61.13	-25	-36.13	-70.58	3.56	13.01	V
	9990	-56.55	-25	-31.55	-66.07	3.92	13.44	V
Middle	5085	-54.84	-25	-29.84	-65.05	3.03	13.24	H
	7635	-59.84	-25	-34.84	-69.29	3.56	13.01	H
	10170	-55.39	-25	-30.39	-64.91	3.92	13.44	H
	5085	-56.98	-25	-31.98	-67.19	3.03	13.24	V
	7635	-54.78	-25	-29.78	-64.23	3.56	13.01	V
	10170	-55.56	-25	-30.56	-65.08	3.92	13.44	V
Highest	5175	-60.70	-25	-35.70	-70.91	3.03	13.24	H
	7770	-60.03	-25	-35.03	-69.48	3.56	13.01	H
	10365	-51.51	-25	-26.51	-61.03	3.92	13.44	H
	5175	-61.18	-25	-36.18	-71.39	3.03	13.24	V
	7770	-58.95	-25	-33.95	-68.40	3.56	13.01	V
	10365	-52.44	-25	-27.44	-61.96	3.92	13.44	V

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

EN-DC_26A_n41A / LTE 15MHz + NR 100MHz / QPSK (ANT0+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)
Lowest	4995	-61.32	-25	-36.32	-71.53	3.03	13.24	H
	7500	-61.07	-25	-36.07	-70.52	3.56	13.01	H
	10005	-60.07	-25	-35.07	-69.59	3.92	13.44	H
	4995	-61.55	-25	-36.55	-71.76	3.03	13.24	V
	7500	-61.17	-25	-36.17	-70.62	3.56	13.01	V
	10005	-60.05	-25	-35.05	-69.57	3.92	13.44	V
Middle	5100	-61.91	-25	-36.91	-72.12	3.03	13.24	H
	7650	-60.69	-25	-35.69	-70.14	3.56	13.01	H
	10185	-59.70	-25	-34.70	-69.22	3.92	13.44	H
	5100	-61.91	-25	-36.91	-72.12	3.03	13.24	V
	7650	-60.79	-25	-35.79	-70.24	3.56	13.01	V
	10185	-59.94	-25	-34.94	-69.46	3.92	13.44	V
Highest	5190	-61.89	-25	-36.89	-72.10	3.03	13.24	H
	7785	-60.56	-25	-35.56	-70.01	3.56	13.01	H
	10380	-59.84	-25	-34.84	-69.36	3.92	13.44	H
	5190	-61.97	-25	-36.97	-72.18	3.03	13.24	V
	7785	-60.55	-25	-35.55	-70.00	3.56	13.01	V
	10380	-60.01	-25	-35.01	-69.53	3.92	13.44	V

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



UL MIMO n41 / NR 100MHz / QPSK (ANT9+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)
Lowest	4994	-53.20	-25	-28.20	-63.41	3.03	13.24	H
	7486	-53.58	-25	-28.58	-63.03	3.56	13.01	H
	9992	-53.38	-25	-28.38	-62.90	3.92	13.44	H
	4994	-54.11	-25	-29.11	-64.32	3.03	13.24	V
	7486	-51.71	-25	-26.71	-61.16	3.56	13.01	V
	9992	-55.70	-25	-30.70	-65.22	3.92	13.44	V
Middle	5092	-54.42	-25	-29.42	-64.63	3.03	13.24	H
	7626	-52.69	-25	-27.69	-62.14	3.56	13.01	H
	10174	-53.51	-25	-28.51	-63.03	3.92	13.44	H
	5092	-56.64	-25	-31.64	-66.85	3.03	13.24	V
	7626	-48.54	-25	-23.54	-57.99	3.56	13.01	V
	10174	-54.06	-25	-29.06	-63.58	3.92	13.44	V
Highest	5176	-59.78	-25	-34.78	-69.99	3.03	13.24	H
	7780	-56.16	-25	-31.16	-65.61	3.56	13.01	H
	10370	-50.23	-25	-25.23	-59.75	3.92	13.44	H
	5176	-60.57	-25	-35.57	-70.78	3.03	13.24	V
	7780	-54.36	-25	-29.36	-63.81	3.56	13.01	V
	10370	-50.05	-25	-25.05	-59.57	3.92	13.44	V

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