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Appendix B.21

NR Band n12



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power	ERP	Limit	Verdict
						(dBm)			
N12	15	5	DFT-QPSK	L	Inner_1RB_Left	23.35	21.83	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Right	23.43	21.91	34.77	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	22.43	20.91	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Left	22.55	21.03	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Right	22.63	21.11	34.77	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	21.36	19.84	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Left	20.63	19.11	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Right	20.71	19.19	34.77	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	21.07	19.55	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Left	19.04	17.52	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Right	19.23	17.71	34.77	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	19.52	18	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Left	23.24	21.72	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Right	23.23	21.71	34.77	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	22.31	20.79	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Left	22.55	21.03	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Right	22.37	20.85	34.77	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	21.23	19.71	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Left	20.63	19.11	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Right	20.53	19.01	34.77	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	20.95	19.43	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Left	19.14	17.62	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Right	18.93	17.41	34.77	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	18.95	17.43	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Left	23.08	21.56	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Right	22.92	21.4	34.77	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	22.14	20.62	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Left	22.28	20.76	34.77	PASS



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N12	15	5	DFT-16QAM	H	Inner_1RB_Right	22.06	20.54	34.77	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	21.02	19.5	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Left	20.98	19.46	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Right	21.12	19.6	34.77	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	21.02	19.5	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Left	18.83	17.31	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Right	18.65	17.13	34.77	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	18.75	17.23	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Left	23.21	21.69	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Right	23.2	21.68	34.77	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	22.31	20.79	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Left	22.4	20.88	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Right	22.43	20.91	34.77	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	21.29	19.77	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Left	20.46	18.94	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Right	20.5	18.98	34.77	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	20.92	19.4	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Left	18.94	17.42	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Right	18.97	17.45	34.77	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	18.92	17.4	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Left	23.23	21.71	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Right	23.02	21.5	34.77	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	22.15	20.63	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Left	22.42	20.9	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Right	22.25	20.73	34.77	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	21.08	19.56	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Left	21.32	19.8	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Right	21.25	19.73	34.77	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	20.23	18.71	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Left	19.58	18.06	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Right	19.63	18.11	34.77	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	18.98	17.46	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Left	23.21	21.69	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Right	22.83	21.31	34.77	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	21.98	20.46	34.77	PASS



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N12	15	10	DFT-16QAM	H	Inner_1RB_Left	22.63	21.11	34.77	PASS
N12	15	10	DFT-16QAM	H	Inner_1RB_Right	22.54	21.02	34.77	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	20.95	19.43	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Left	20.5	18.98	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Right	20.13	18.61	34.77	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	20.58	19.06	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Left	18.95	17.43	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Right	18.61	17.09	34.77	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	18.57	17.05	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Left	23.32	21.8	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Right	23.08	21.56	34.77	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	22.39	20.87	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Left	22.52	21	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Right	22.31	20.79	34.77	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	21.35	19.83	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Left	20.6	19.08	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Right	20.41	18.89	34.77	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	20.96	19.44	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Left	19.07	17.55	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Right	18.87	17.35	34.77	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	18.94	17.42	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Left	23.22	21.7	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Right	23.02	21.5	34.77	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	22.32	20.8	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Left	22.5	20.98	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Right	22.3	20.78	34.77	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	21.28	19.76	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Left	20.63	19.11	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Right	20.32	18.8	34.77	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	20.87	19.35	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Left	19.14	17.62	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Right	19.23	17.71	34.77	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	18.56	17.04	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Left	23.31	21.79	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Right	22.94	21.42	34.77	PASS



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N12	15	15	DFT-QPSK	H	Outer_Full	22.26	20.74	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Left	22.32	20.8	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Right	22.44	20.92	34.77	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	21.23	19.71	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Left	20.63	19.11	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Right	20.58	19.06	34.77	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	19.52	18	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Left	19.13	17.61	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Right	19.36	17.84	34.77	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	18.83	17.31	34.77	PASS
N12	30	15	DFT-QPSK	L	Inner_1RB_Left	23.3	21.78	34.77	PASS
N12	30	15	DFT-QPSK	L	Inner_1RB_Right	23.06	21.54	34.77	PASS
N12	30	15	DFT-QPSK	L	Outer_Full	22.37	20.85	34.77	PASS
N12	30	15	DFT-16QAM	L	Inner_1RB_Left	22.5	20.98	34.77	PASS
N12	30	15	DFT-16QAM	L	Inner_1RB_Right	22.29	20.77	34.77	PASS
N12	30	15	DFT-16QAM	L	Outer_Full	21.33	19.81	34.77	PASS
N12	30	15	DFT-64QAM	L	Inner_1RB_Left	20.58	19.06	34.77	PASS
N12	30	15	DFT-64QAM	L	Inner_1RB_Right	20.39	18.87	34.77	PASS
N12	30	15	DFT-64QAM	L	Outer_Full	20.94	19.42	34.77	PASS
N12	30	15	DFT-256QAM	L	Inner_1RB_Left	19.05	17.53	34.77	PASS
N12	30	15	DFT-256QAM	L	Inner_1RB_Right	18.85	17.33	34.77	PASS
N12	30	15	DFT-256QAM	L	Outer_Full	18.92	17.4	34.77	PASS
N12	30	15	DFT-QPSK	M	Inner_1RB_Left	23.2	21.68	34.77	PASS
N12	30	15	DFT-QPSK	M	Inner_1RB_Right	23	21.48	34.77	PASS
N12	30	15	DFT-QPSK	M	Outer_Full	22.3	20.78	34.77	PASS
N12	30	15	DFT-16QAM	M	Inner_1RB_Left	22.48	20.96	34.77	PASS
N12	30	15	DFT-16QAM	M	Inner_1RB_Right	22.28	20.76	34.77	PASS
N12	30	15	DFT-16QAM	M	Outer_Full	21.26	19.74	34.77	PASS
N12	30	15	DFT-64QAM	M	Inner_1RB_Left	20.61	19.09	34.77	PASS
N12	30	15	DFT-64QAM	M	Inner_1RB_Right	20.3	18.78	34.77	PASS
N12	30	15	DFT-64QAM	M	Outer_Full	20.85	19.33	34.77	PASS
N12	30	15	DFT-256QAM	M	Inner_1RB_Left	19.12	17.6	34.77	PASS
N12	30	15	DFT-256QAM	M	Inner_1RB_Right	19.21	17.69	34.77	PASS
N12	30	15	DFT-256QAM	M	Outer_Full	18.54	17.02	34.77	PASS
N12	30	15	DFT-QPSK	H	Inner_1RB_Left	23.29	21.77	34.77	PASS



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N12	30	15	DFT-QPSK	H	Inner_1RB_Right	22.92	21.4	34.77	PASS
N12	30	15	DFT-QPSK	H	Outer_Full	22.24	20.72	34.77	PASS
N12	30	15	DFT-16QAM	H	Inner_1RB_Left	22.3	20.78	34.77	PASS
N12	30	15	DFT-16QAM	H	Inner_1RB_Right	22.42	20.9	34.77	PASS
N12	30	15	DFT-16QAM	H	Outer_Full	21.21	19.69	34.77	PASS
N12	30	15	DFT-64QAM	H	Inner_1RB_Left	20.61	19.09	34.77	PASS
N12	30	15	DFT-64QAM	H	Inner_1RB_Right	20.56	19.04	34.77	PASS
N12	30	15	DFT-64QAM	H	Outer_Full	19.5	17.98	34.77	PASS
N12	30	15	DFT-256QAM	H	Inner_1RB_Left	19.11	17.59	34.77	PASS
N12	30	15	DFT-256QAM	H	Inner_1RB_Right	19.34	17.82	34.77	PASS
N12	30	15	DFT-256QAM	H	Outer_Full	18.81	17.29	34.77	PASS



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Field Strength of Spurious Radiation

Test Band = SA Band12_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.4286	87.77	-48.00	25.62	-29.87	-13.00	16.87	254	301	Horizontal
2	2098.2857	81.11	-47.71	26.98	-34.88	-13.00	21.88	186	25	Horizontal
3	2797.7143	65.05	-46.92	28.48	-48.66	-13.00	35.66	132	360	Horizontal
4	3497.1429	63.52	-46.54	29.52	-48.76	-13.00	35.76	126	157	Horizontal
5	4196.5714	57.96	-45.96	31.09	-52.16	-13.00	39.16	195	118	Horizontal
6	4896	56.78	-45.58	32.59	-51.47	-13.00	38.47	148	66	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1398.8571	84.41	-48.00	25.62	-33.23	-13.00	20.23	245	150	Vertical
2	2098.2857	79.96	-47.71	26.98	-36.03	-13.00	23.03	163	205	Vertical
3	2798.2857	65.58	-46.92	28.48	-48.13	-13.00	35.13	254	190	Vertical
4	3497.1429	59.83	-46.54	29.52	-52.45	-13.00	39.45	198	72	Vertical
5	4196.5714	56.30	-45.96	31.09	-53.82	-13.00	40.82	147	84	Vertical
6	4896.5714	54.65	-45.58	32.59	-53.60	-13.00	40.60	175	46	Vertical



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Test Band = SA Band12_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1401.1429	86.14	-48.00	25.62	-31.51	-13.00	18.51	254	305	Horizontal
2	2101.1429	81.18	-47.71	26.99	-34.80	-13.00	21.80	199	4	Horizontal
3	2801.7143	63.83	-46.91	28.49	-49.86	-13.00	36.86	184	356	Horizontal
4	3502.2857	64.58	-46.54	29.52	-47.69	-13.00	34.69	175	120	Horizontal
5	4202.8571	57.07	-45.95	31.11	-53.04	-13.00	40.04	163	120	Horizontal
6	4903.4286	57.60	-45.59	32.61	-50.64	-13.00	37.64	256	80	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1401.1429	84.48	-48.00	25.62	-33.17	-13.00	20.17	298	163	Vertical
2	2101.1429	77.96	-47.71	26.99	-38.02	-13.00	25.02	145	123	Vertical
3	2801.7143	66.07	-46.91	28.49	-47.62	-13.00	34.62	126	189	Vertical
4	3502.2857	60.28	-46.54	29.52	-51.99	-13.00	38.99	133	56	Vertical
5	4202.8571	55.58	-45.95	31.11	-54.53	-13.00	41.53	263	56	Vertical
6	4903.4286	52.68	-45.59	32.61	-55.56	-13.00	42.56	251	294	Vertical



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Test Band = SA Band12_ TM1
 Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1476	57.94	-48.24	25.52	-60.05	-13.00	47.05	254	38	Horizontal
2	2104.5714	78.15	-47.71	27.01	-37.81	-13.00	24.81	166	3	Horizontal
3	2806.2857	64.42	-46.90	28.51	-49.23	-13.00	36.23	195	356	Horizontal
4	3507.4286	64.27	-46.53	29.53	-47.99	-13.00	34.99	142	158	Horizontal
5	4209.1429	55.03	-45.94	31.12	-55.05	-13.00	42.05	185	118	Horizontal
6	4910.8571	53.09	-45.60	32.63	-55.14	-13.00	42.14	133	38	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1402.8571	85.61	-48.01	25.62	-32.04	-13.00	19.04	245	164	Vertical
2	2104.5714	77.43	-47.71	27.01	-38.53	-13.00	25.53	126	357	Vertical
3	2805.7143	63.34	-46.90	28.50	-50.32	-13.00	37.32	152	190	Vertical
4	3507.4286	59.97	-46.53	29.53	-52.29	-13.00	39.29	132	71	Vertical
5	4208.5714	54.75	-45.94	31.12	-55.34	-13.00	42.34	154	71	Vertical
6	5000	52.84	-45.81	32.88	-55.35	-13.00	42.35	195	256	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

