

Test Band = DC_7A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	55.52	-104.42	-48.90	-13.00	35.90	163	207	Horizontal
2	7590.18	49.34	-99.85	-50.51	-13.00	37.51	225	248	Horizontal
3	9306	49.92	-95.04	-45.12	-13.00	32.12	142	96	Horizontal
4	11835.27	42.42	-91.75	-49.33	-13.00	36.33	263	229	Horizontal
5	15180.36	41.60	-89.91	-48.31	-13.00	35.31	288	222	Horizontal
6	17694.3333	48.19	-84.98	-36.79	-13.00	23.79	175	211	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	59.53	-104.42	-44.89	-13.00	31.89	263	298	Vertical
2	7590.18	48.81	-99.85	-51.04	-13.00	38.04	251	56	Vertical
3	8839.3333	48.27	-95.79	-47.52	-13.00	34.52	142	157	Vertical
4	11835.27	42.33	-91.75	-49.42	-13.00	36.42	263	1	Vertical
5	15180.36	41.71	-89.91	-48.20	-13.00	35.20	288	107	Vertical
6	17573	41.42	-86.26	-44.84	-13.00	31.84	144	25	Vertical



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Test Band = DC_7A-n77A 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	56.14	-104.42	-48.28	-13.00	35.28	163	66	Horizontal
2	7870.18	47.00	-98.77	-51.77	-13.00	38.77	255	0	Horizontal
3	9216.1667	49.12	-94.93	-45.81	-13.00	32.81	142	358	Horizontal
4	11805.27	42.40	-91.86	-49.46	-13.00	35.57	263	198	Horizontal
5	15740.36	42.02	-90.73	-48.71	-13.00	35.71	142	108	Horizontal
6	17694.3333	48.33	-84.98	-36.65	-13.00	23.65	266	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5898.1667	58.76	-104.42	-45.66	-13.00	32.66	241	97	Vertical
2	7870.18	47.13	-98.77	-51.64	-13.00	38.64	175	258	Vertical
3	11805.27	43.30	-91.86	-48.56	-13.00	34.86	263	96	Vertical
4	13591.1667	45.38	-89.68	-44.30	-13.00	31.30	285	77	Vertical
5	15740.36	42.15	-90.73	-48.58	-13.00	35.58	244	357	Vertical
6	17865.8333	42.66	-84.27	-41.61	-13.00	28.61	166	263	Vertical



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Test Band = NR UL CA n2A-n77A 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	33.98	-87.27	-53.29	-13.00	40.29	263	178	Horizontal
2	5553.27	50.87	-105.32	-54.45	-13.00	41.45	251	215	Horizontal
3	7310.18	48.74	-100.63	-51.89	-13.00	38.89	263	103	Horizontal
4	7404.36	48.35	-100.78	-52.43	-13.00	39.43	174	83	Horizontal
5	10965.27	41.88	-91.32	-49.44	-13.00	36.44	284	114	Horizontal
6	14620.36	40.71	-89.81	-49.10	-13.00	36.10	144	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	33.08	-87.27	-54.19	-13.00	41.19	263	309	Vertical
2	5553.27	50.49	-105.32	-54.83	-13.00	41.83	251	74	Vertical
3	7310.18	48.03	-100.63	-52.60	-13.00	39.60	174	0	Vertical
4	7404.36	49.09	-100.78	-51.69	-13.00	38.69	186	227	Vertical
5	10965.27	41.93	-91.32	-49.39	-13.00	36.39	254	338	Vertical
6	14620.36	40.44	-89.81	-49.37	-13.00	36.37	144	187	Vertical



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Test Band = NR UL CA n2A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	34.58	-86.91	-52.33	-13.00	39.33	256	307	Horizontal
2	5613.27	50.51	-105.35	-54.84	-13.00	41.84	251	326	Horizontal
3	7484.36	47.12	-100.42	-53.30	-13.00	40.30	144	112	Horizontal
4	7590.18	48.49	-99.85	-51.36	-13.00	38.36	163	193	Horizontal
5	11835.27	42.68	-91.75	-49.07	-13.00	36.07	251	153	Horizontal
6	15180.36	42.67	-89.91	-47.24	-13.00	34.24	142	184	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	35.18	-86.91	-51.73	-13.00	38.73	142	44	Vertical
2	5613.27	50.29	-105.35	-55.06	-13.00	42.06	265	274	Vertical
3	7484.36	48.02	-100.42	-52.40	-13.00	39.40	254	274	Vertical
4	7590.18	48.96	-99.85	-50.89	-13.00	37.89	144	71	Vertical
5	11835.27	42.25	-91.75	-49.50	-13.00	36.50	185	82	Vertical
6	15180.36	41.93	-89.91	-47.98	-13.00	34.98	265	357	Vertical



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Test Band = NR UL CA n2A-n77A 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	34.60	-86.55	-51.95	-13.00	38.95	142	37	Horizontal
2	5673.27	48.84	-105.11	-56.27	-13.00	43.27	263	75	Horizontal
3	7564.36	48.15	-99.99	-51.84	-13.00	38.84	251	338	Horizontal
4	7870.18	46.87	-98.77	-51.90	-13.00	38.90	174	318	Horizontal
5	11805.27	42.83	-91.86	-49.03	-13.00	36.03	186	357	Horizontal
6	15740.36	42.44	-90.73	-48.29	-13.00	35.29	254	308	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	34.06	-86.55	-52.49	-13.00	39.49	142	224	Vertical
2	5673.27	49.82	-105.11	-55.29	-13.00	42.29	263	65	Vertical
3	7564.36	48.88	-99.99	-51.11	-13.00	38.11	284	126	Vertical
4	7870.18	46.55	-98.77	-52.22	-13.00	39.22	176	308	Vertical
5	11805.27	42.53	-91.86	-49.33	-13.00	36.33	254	268	Vertical
6	15740.36	41.69	-90.73	-49.04	-13.00	36.04	114	317	Vertical



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Test Band = NR UL CA n5A-n77A 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	39.29	-94.97	-55.68	-13.00	42.68	163	242	Horizontal
2	2475.27	38.47	-91.41	-52.94	-13.00	39.94	251	360	Horizontal
3	3300.36	36.47	-88.37	-51.90	-13.00	38.90	142	170	Horizontal
4	7310.18	48.44	-100.63	-52.19	-13.00	39.19	263	165	Horizontal
5	10965.27	42.38	-91.32	-48.94	-13.00	35.94	254	14	Horizontal
6	14620.36	40.50	-89.81	-49.31	-13.00	36.31	184	7	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.18	39.25	-94.97	-55.72	-13.00	42.72	142	341	Vertical
2	2475.27	38.59	-91.41	-52.82	-13.00	39.82	256	54	Vertical
3	3300.36	35.99	-88.37	-52.38	-13.00	39.38	362	347	Vertical
4	7310.18	48.59	-100.63	-52.04	-13.00	39.04	251	287	Vertical
5	10965.27	41.45	-91.32	-49.87	-13.00	36.87	251	7	Vertical
6	14620.36	41.32	-89.81	-48.49	-13.00	35.49	155	1	Vertical



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Test Band = NR UL CA n5A-n77A 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	39.24	-94.96	-55.72	-13.00	42.72	163	241	Horizontal
2	2482.77	38.87	-91.35	-52.48	-13.00	39.48	254	275	Horizontal
3	3310.36	36.07	-88.37	-52.30	-13.00	39.30	186	300	Horizontal
4	7590.18	48.71	-99.85	-51.14	-13.00	38.14	163	357	Horizontal
5	11835.27	44.02	-91.75	-47.73	-13.00	34.73	251	267	Horizontal
6	15180.36	42.10	-89.91	-47.81	-13.00	34.81	174	176	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1655.18	39.45	-94.96	-55.51	-13.00	42.51	163	359	Vertical
2	2482.77	37.79	-91.35	-53.56	-13.00	40.56	251	334	Vertical
3	3310.36	37.38	-88.37	-50.99	-13.00	37.99	142	223	Vertical
4	7590.18	49.04	-99.85	-50.81	-13.00	37.81	263	348	Vertical
5	11835.27	43.50	-91.75	-48.25	-13.00	35.25	251	0	Vertical
6	15180.36	41.67	-89.91	-48.24	-13.00	35.24	142	94	Vertical



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Test Band = NR UL CA n5A-n77A 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	39.18	-94.94	-55.76	-13.00	42.76	251	341	Horizontal
2	2490.27	38.93	-91.30	-52.37	-13.00	39.37	142	104	Horizontal
3	3320.36	36.30	-88.37	-52.07	-13.00	39.07	263	316	Horizontal
4	7870.18	46.92	-98.77	-51.85	-13.00	38.85	254	235	Horizontal
5	11805.27	42.11	-91.86	-49.75	-13.00	36.75	174	204	Horizontal
6	15740.36	45.17	-90.73	-45.56	-13.00	32.56	264	215	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1660.18	38.77	-94.94	-56.17	-13.00	43.17	142	109	Vertical
2	2490.27	38.64	-91.30	-52.66	-13.00	39.66	253	19	Vertical
3	3320.36	36.43	-88.37	-51.94	-13.00	38.94	263	19	Vertical
4	7870.18	46.69	-98.77	-52.08	-13.00	39.08	254	186	Vertical
5	11805.27	42.94	-91.86	-48.92	-13.00	35.92	175	228	Vertical
6	15740.36	41.98	-90.73	-48.75	-13.00	35.75	265	1	Vertical



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 Rev.: 01
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Test Band = NR UL CA 66A-n77A 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	37.33	-88.29	-50.96	-13.00	37.96	163	111	Horizontal
2	5133.27	48.86	-105.65	-56.79	-13.00	43.79	251	254	Horizontal
3	6844.36	49.39	-101.67	-52.28	-13.00	39.28	142	204	Horizontal
4	7310.18	48.64	-100.63	-51.99	-13.00	38.99	284	0	Horizontal
5	10965.27	41.57	-91.32	-49.75	-13.00	36.75	162	114	Horizontal
6	14620.36	40.83	-89.81	-48.98	-13.00	35.98	264	15	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	36.73	-88.29	-51.56	-13.00	38.56	142	295	Vertical
2	5133.27	49.57	-105.65	-56.08	-13.00	43.08	251	267	Vertical
3	6844.36	49.04	-101.67	-52.63	-13.00	39.63	146	74	Vertical
4	7310.18	48.26	-100.63	-52.37	-13.00	39.37	265	206	Vertical
5	10965.27	42.69	-91.32	-48.63	-13.00	35.63	254	125	Vertical
6	14620.36	40.98	-89.81	-48.83	-13.00	35.83	185	327	Vertical



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Test Band = NR UL CA 66A-n77A 3700M-3980M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.18	36.06	-88.16	-52.10	-13.00	39.10	175	163	Horizontal
2	5181.27	50.75	-105.75	-55.00	-13.00	42.00	265	8	Horizontal
3	6908.36	48.38	-101.41	-53.03	-13.00	40.03	241	237	Horizontal
4	7590.18	49.19	-99.85	-50.66	-13.00	37.66	142	123	Horizontal
5	11835.27	42.54	-91.75	-49.21	-13.00	36.21	265	94	Horizontal
6	15180.36	42.21	-89.91	-47.70	-13.00	34.70	241	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3454.18	35.53	-88.16	-52.63	-13.00	39.63	146	323	Vertical
2	5181.27	49.46	-105.75	-56.29	-13.00	43.29	265	327	Vertical
3	6908.36	47.48	-101.41	-53.93	-13.00	40.93	241	22	Vertical
4	7590.18	48.38	-99.85	-51.47	-13.00	38.47	152	164	Vertical
5	11835.27	42.62	-91.75	-49.13	-13.00	36.13	284	237	Vertical
6	15180.36	43.56	-89.91	-46.35	-13.00	33.35	142	31	Vertical



Test Band = NR UL CA 66A-n77A 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.18	36.53	-87.95	-51.42	-13.00	38.42	163	36	Horizontal
2	5256.27	51.31	-105.74	-54.43	-13.00	41.43	251	275	Horizontal
3	7008.36	49.63	-101.47	-51.84	-13.00	38.84	174	175	Horizontal
4	7870.18	46.59	-98.77	-52.18	-13.00	39.18	162	3	Horizontal
5	11805.27	43.74	-91.86	-48.12	-13.00	35.12	241	285	Horizontal
6	15740.36	42.33	-90.73	-48.40	-13.00	35.40	185	45	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3504.18	35.70	-87.95	-52.25	-13.00	39.25	142	130	Vertical
2	5256.27	50.75	-105.74	-54.99	-13.00	41.99	263	298	Vertical
3	7008.36	48.87	-101.47	-52.60	-13.00	39.60	284	328	Vertical
4	7870.18	46.44	-98.77	-52.33	-13.00	39.33	145	0	Vertical
5	11805.27	43.21	-91.86	-48.65	-13.00	35.65	265	237	Vertical
6	15740.36	42.75	-90.73	-47.98	-13.00	34.98	241	197	Vertical



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Test Band = NR UL CA 30A-n77A 3700M-3980M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	49.83	-106.70	-56.87	-13.00	43.87	175	54	Horizontal
2	6916.02	48.45	-101.42	-52.97	-13.00	39.97	265	0	Horizontal
3	7310.18	48.67	-100.63	-51.96	-13.00	38.96	241	277	Horizontal
4	9221.36	47.37	-94.94	-47.57	-13.00	34.57	251	277	Horizontal
5	10965.27	41.57	-91.32	-49.75	-13.00	36.75	159	147	Horizontal
6	14620.36	41.24	-89.81	-48.57	-13.00	35.57	265	218	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	50.03	-106.70	-56.67	-13.00	43.67	142	197	Vertical
2	6916.02	49.14	-101.42	-52.28	-13.00	39.28	263	1	Vertical
3	7310.18	48.27	-100.63	-52.36	-13.00	39.36	254	145	Vertical
4	9221.36	47.69	-94.94	-47.25	-13.00	34.25	175	94	Vertical
5	10965.27	42.98	-91.32	-48.34	-13.00	35.34	265	1	Vertical
6	14620.36	40.66	-89.81	-49.15	-13.00	36.15	284	0	Vertical



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Test Band = NR UL CA 30A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	49.16	-106.70	-57.54	-13.00	44.54	176	1	Horizontal
2	6923.52	47.48	-101.42	-53.94	-13.00	40.94	254	278	Horizontal
3	7590.18	48.99	-99.85	-50.86	-13.00	37.86	142	357	Horizontal
4	9231.36	46.48	-94.96	-48.48	-13.00	35.48	184	117	Horizontal
5	11835.27	42.58	-91.75	-49.17	-13.00	36.17	263	357	Horizontal
6	15180.36	41.42	-89.91	-48.49	-13.00	35.49	284	268	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	50.62	-106.70	-56.08	-13.00	43.08	142	209	Vertical
2	6923.52	49.03	-101.42	-52.39	-13.00	39.39	263	25	Vertical
3	7590.18	48.87	-99.85	-50.98	-13.00	37.98	284	357	Vertical
4	9231.36	46.15	-94.96	-48.81	-13.00	35.81	176	36	Vertical
5	11835.27	43.94	-91.75	-47.81	-13.00	34.81	254	357	Vertical
6	15180.36	42.42	-89.91	-47.49	-13.00	34.49	144	319	Vertical



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Test Band = NR UL CA 30A-n77A 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	49.55	-106.69	-57.14	-13.00	44.14	163	13	Horizontal
2	6931.02	47.78	-101.43	-53.65	-13.00	40.65	251	2	Horizontal
3	7870.18	46.61	-98.77	-52.16	-13.00	39.16	163	0	Horizontal
4	9241.32	46.30	-94.98	-48.68	-13.00	35.68	174	114	Horizontal
5	11805.27	43.23	-91.86	-48.63	-13.00	35.63	251	175	Horizontal
6	15740.36	42.20	-90.73	-48.53	-13.00	35.53	144	205	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	48.93	-106.69	-57.76	-13.00	44.76	163	21	Vertical
2	6931.02	47.78	-101.43	-53.65	-13.00	40.65	251	266	Vertical
3	7870.18	46.24	-98.77	-52.53	-13.00	39.53	174	72	Vertical
4	9241.32	46.65	-94.98	-48.33	-13.00	35.33	162	185	Vertical
5	11805.27	43.11	-91.86	-48.75	-13.00	35.75	241	40	Vertical
6	15740.36	43.51	-90.73	-47.22	-13.00	34.22	185	236	Vertical



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Test Band = NR UL CA 71A-n77A 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	40.26	-95.91	-55.65	-13.00	42.65	251	79	Horizontal
2	1992.27	40.18	-93.45	-53.27	-13.00	40.27	174	250	Horizontal
3	2656.36	38.13	-90.77	-52.64	-13.00	39.64	155	71	Horizontal
4	7310.18	48.94	-100.63	-51.69	-13.00	38.69	142	184	Horizontal
5	10965.27	42.26	-91.32	-49.06	-13.00	36.06	256	134	Horizontal
6	14620.36	41.11	-89.81	-48.70	-13.00	35.70	263	63	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	39.50	-95.91	-56.41	-13.00	43.41	152	94	Vertical
2	1992.27	38.60	-93.45	-54.85	-13.00	41.85	263	60	Vertical
3	2656.36	38.56	-90.77	-52.21	-13.00	39.21	241	28	Vertical
4	7310.18	48.28	-100.63	-52.35	-13.00	39.35	175	54	Vertical
5	10965.27	42.01	-91.32	-49.31	-13.00	36.31	265	246	Vertical
6	14620.36	41.65	-89.81	-48.16	-13.00	35.16	241	277	Vertical



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Test Band = NR UL CA 71A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.18	39.58	-95.86	-56.28	-13.00	43.28	142	360	Horizontal
2	2014.77	39.14	-93.34	-54.20	-13.00	41.20	263	359	Horizontal
3	2686.36	37.92	-90.61	-52.69	-13.00	39.69	251	54	Horizontal
4	7590.18	49.11	-99.85	-50.74	-13.00	37.74	144	107	Horizontal
5	11835.27	43.12	-91.75	-48.63	-13.00	35.63	254	32	Horizontal
6	15180.36	42.79	-89.91	-47.12	-13.00	34.12	184	32	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.18	40.06	-95.86	-55.80	-13.00	42.80	142	186	Vertical
2	2014.77	38.79	-93.34	-54.55	-13.00	41.55	263	54	Vertical
3	2686.36	38.01	-90.61	-52.60	-13.00	39.60	284	360	Vertical
4	7590.18	49.25	-99.85	-50.60	-13.00	37.60	175	4	Vertical
5	11835.27	43.43	-91.75	-48.32	-13.00	35.32	265	35	Vertical
6	15180.36	43.17	-89.91	-46.74	-13.00	33.74	241	155	Vertical



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Test Band = NR UL CA 71A-n77A 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	39.84	-95.81	-55.97	-13.00	42.97	263	199	Horizontal
2	2037.27	38.96	-93.27	-54.31	-13.00	41.31	251	325	Horizontal
3	2716.36	37.94	-90.45	-52.51	-13.00	39.51	184	171	Horizontal
4	7870.18	46.71	-98.77	-52.06	-13.00	39.06	163	347	Horizontal
5	11805.27	42.89	-91.86	-48.97	-13.00	35.97	251	317	Horizontal
6	15740.36	44.52	-90.73	-46.21	-13.00	33.21	142	317	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	40.82	-95.81	-54.99	-13.00	41.99	163	333	Vertical
2	2037.27	39.05	-93.27	-54.22	-13.00	41.22	254	62	Vertical
3	2716.36	38.59	-90.45	-51.86	-13.00	38.86	147	112	Vertical
4	7870.18	47.15	-98.77	-51.62	-13.00	38.62	185	54	Vertical
5	11805.27	44.18	-91.86	-47.68	-13.00	34.68	263	3	Vertical
6	15740.36	41.81	-90.73	-48.92	-13.00	35.92	241	318	Vertical



Test Band = NR UL CA n25A-n77A 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.18	34.36	-87.25	-52.89	-13.00	39.89	186	274	Horizontal
2	5556.27	50.09	-105.32	-55.23	-13.00	42.23	265	0	Horizontal
3	7310.18	49.01	-100.63	-51.62	-13.00	38.62	263	94	Horizontal
4	7408.36	47.78	-100.77	-52.99	-13.00	39.99	241	247	Horizontal
5	10965.27	42.47	-91.32	-48.85	-13.00	35.85	142	44	Horizontal
6	14620.36	41.59	-89.81	-48.22	-13.00	35.22	251	104	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.18	33.58	-87.25	-53.67	-13.00	40.67	142	22	Vertical
2	5556.27	50.75	-105.32	-54.57	-13.00	41.57	263	166	Vertical
3	7310.18	47.95	-100.63	-52.68	-13.00	39.68	142	1	Vertical
4	7408.36	47.63	-100.77	-53.14	-13.00	40.14	175	247	Vertical
5	10965.27	43.30	-91.32	-48.02	-13.00	35.02	263	146	Vertical
6	14620.36	40.57	-89.81	-49.24	-13.00	36.24	251	55	Vertical



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Test Band = NR UL CA n25A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.18	33.49	-87.02	-53.53	-13.00	40.53	163	163	Horizontal
2	5593.77	50.55	-105.40	-54.85	-13.00	41.85	254	156	Horizontal
3	7458.36	47.86	-100.54	-52.68	-13.00	39.68	188	356	Horizontal
4	7590.18	49.05	-99.85	-50.80	-13.00	37.80	163	206	Horizontal
5	11835.27	43.42	-91.75	-48.33	-13.00	35.33	251	266	Horizontal
6	15180.36	42.76	-89.91	-47.15	-13.00	34.15	174	277	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3729.18	34.46	-87.02	-52.56	-13.00	39.56	142	104	Vertical
2	5593.77	50.52	-105.40	-54.88	-13.00	41.88	263	208	Vertical
3	7458.36	48.02	-100.54	-52.52	-13.00	39.52	254	15	Vertical
4	7590.18	49.06	-99.85	-50.79	-13.00	37.79	185	93	Vertical
5	11835.27	42.89	-91.75	-48.86	-13.00	35.86	265	74	Vertical
6	15180.36	42.25	-89.91	-47.66	-13.00	34.66	241	329	Vertical



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Test Band = NR UL CA n25A-n77A 3700M-3980M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.18	34.90	-86.80	-51.90	-13.00	38.90	142	323	Horizontal
2	5631.27	50.74	-105.28	-54.54	-13.00	41.54	263	186	Horizontal
3	7508.36	48.76	-100.30	-51.54	-13.00	38.54	251	226	Horizontal
4	7870.18	46.74	-98.77	-52.03	-13.00	39.03	174	195	Horizontal
5	11805.27	43.43	-91.86	-48.43	-13.00	35.43	186	76	Horizontal
6	15740.36	42.64	-90.73	-48.09	-13.00	35.09	255	65	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3754.18	34.53	-86.80	-52.27	-13.00	39.27	142	78	Vertical
2	5631.27	50.13	-105.28	-55.15	-13.00	42.15	263	280	Vertical
3	7508.36	48.72	-100.30	-51.58	-13.00	38.58	254	209	Vertical
4	7870.18	47.26	-98.77	-51.51	-13.00	38.51	175	178	Vertical
5	11805.27	43.95	-91.86	-47.91	-13.00	34.91	265	0	Vertical
6	15740.36	42.33	-90.73	-48.40	-13.00	35.40	218	16	Vertical



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	39.40	-95.18	-55.78	-13.00	42.78	163	360	Horizontal
2	2332.02	38.36	-92.24	-53.88	-13.00	40.88	274	175	Horizontal
3	3109.36	37.38	-88.89	-51.51	-13.00	38.51	166	11	Horizontal
4	7310.18	47.85	-100.63	-52.78	-13.00	39.78	254	147	Horizontal
5	10965.27	43.33	-91.32	-47.99	-13.00	34.99	196	238	Horizontal
6	14620.36	42.04	-89.81	-47.77	-13.00	34.77	264	347	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	40.15	-95.18	-55.03	-13.00	42.03	262	273	Vertical
2	2332.02	38.67	-92.24	-53.57	-13.00	40.57	241	70	Vertical
3	3109.36	37.19	-88.89	-51.70	-13.00	38.70	175	3	Vertical
4	7310.18	48.43	-100.63	-52.20	-13.00	39.20	284	328	Vertical
5	10965.27	41.96	-91.32	-49.36	-13.00	36.36	221	93	Vertical
6	14620.36	41.17	-89.81	-48.64	-13.00	35.64	145	74	Vertical



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	39.33	-95.17	-55.84	-13.00	42.84	263	284	Horizontal
2	2339.52	38.94	-92.21	-53.27	-13.00	40.27	185	360	Horizontal
3	3119.36	37.77	-88.84	-51.07	-13.00	38.07	196	236	Horizontal
4	7590.18	49.30	-99.85	-50.55	-13.00	37.55	241	287	Horizontal
5	11835.27	43.95	-91.75	-47.80	-13.00	34.80	175	317	Horizontal
6	15180.36	42.59	-89.91	-47.32	-13.00	34.32	142	277	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	39.74	-95.17	-55.43	-13.00	42.43	142	103	Vertical
2	2339.52	39.33	-92.21	-52.88	-13.00	39.88	241	49	Vertical
3	3119.36	37.38	-88.84	-51.46	-13.00	38.46	142	42	Vertical
4	7590.18	49.46	-99.85	-50.39	-13.00	37.39	263	0	Vertical
5	11835.27	42.32	-91.75	-49.43	-13.00	36.43	106	278	Vertical
6	15180.36	42.60	-89.91	-47.31	-13.00	34.31	302	0	Vertical



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Test Band = NR UL CA n13A-n77A 3700M-3980M_ TM1

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	40.16	-95.16	-55.00	-13.00	42.00	142	3	Horizontal
2	2347.02	38.82	-92.18	-53.36	-13.00	40.36	263	348	Horizontal
3	3129.36	37.37	-88.79	-51.42	-13.00	38.42	284	95	Horizontal
4	7870.18	47.22	-98.77	-51.55	-13.00	38.55	176	279	Horizontal
5	11805.27	43.23	-91.86	-48.63	-13.00	35.63	253	4	Horizontal
6	15740.36	43.05	-90.73	-47.68	-13.00	34.68	254	156	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	39.13	-95.16	-56.03	-13.00	43.03	142	221	Vertical
2	2347.02	38.60	-92.18	-53.58	-13.00	40.58	263	70	Vertical
3	3129.36	36.90	-88.79	-51.89	-13.00	38.89	284	360	Vertical
4	7870.18	47.09	-98.77	-51.68	-13.00	38.68	175	357	Vertical
5	11805.27	43.66	-91.86	-48.20	-13.00	35.20	263	225	Vertical
6	15740.36	42.89	-90.73	-47.84	-13.00	34.84	241	236	Vertical



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	9.100000	0.002370	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	25.200000	0.006563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.900000	0.003359	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	8.900000	0.002318	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	14.600000	0.003802	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	13.900000	0.003620	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.200000	0.002396	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	7.400000	0.001927	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	13.300000	0.003464	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	14.600000	0.003802	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	15.200000	0.003958	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	7.500000	0.001953	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	11.700000	0.003047	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	16.000000	0.004167	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	12.800000	0.003333	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	13.900000	0.003620	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	6.800000	0.001771	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	9.200000	0.002396	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	5.300000	0.001380	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	3.500000	0.000911	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	15.800000	0.004115	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	12.200000	0.003177	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	6.200000	0.001615	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	13.700000	0.003568	PASS



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Test Result for MIMO

Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-7.100000	-0.003242	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-6.500000	-0.006352	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	12.200000	0.004712	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VH	NT	-6.100000	-0.003257	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VN	NT	-12.400000	-0.003658	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	VL	NT	-13.500000	-0.003657	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-7.200000	-0.002563	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-10.500000	-0.002736	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	14.500000	0.003752	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-8.200000	-0.002234	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-15.500000	-0.004063	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-19.500000	-0.005134	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.200000	-0.001533	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	13.500000	0.003456	PASS
N77-3700-3980	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.700000	-0.001512	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-30	-9.200000	-0.002325	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-20	-20.200000	-0.005352	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	-10	-12.200000	-0.003254	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	0	-8.700000	-0.002235	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	10	-8.200000	-0.002123	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	20	-10.300000	-0.002744	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	30	-14.200000	-0.003732	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	40	-7.500000	-0.002025	PASS
N77-3700-3980	30	100	CP-QPSK	M	Outer_Full	NV	50	10.200000	0.002563	PASS

---End of Attachment---



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