

Report No.: SUZR/2022/1002202

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Test Band = SA n71_ 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	1342.6667	76.96	-118.52	-41.56	-13.00	28.56	264	25	Horizontal
2	2012.8889	78.99	-116.39	-37.40	-13.00	24.40	178	200	Horizontal
3	2684	70.17	-113.82	-43.65	-13.00	30.65	269	329	Horizontal
4	3355.1111	59.15	-112.01	-52.86	-13.00	39.86	241	141	Horizontal
5	4029.54	48.71	-110.09	-61.38	-13.00	48.38	175	188	Horizontal
6	4701.13	50.22	-107.93	-57.71	-13.00	44.71	268	130	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1342.6667	73.16	-118.52	-45.36	-13.00	32.36	263	323	Vertical
2	2012.8889	59.44	-116.39	-56.95	-13.00	43.95	241	56	Vertical
3	2684	58.00	-113.82	-55.82	-13.00	42.82	302	2	Vertical
4	3357.95	51.40	-112.01	-60.61	-13.00	47.61	264	196	Vertical
5	4029.54	49.09	-110.09	-61.00	-13.00	48.00	175	207	Vertical
6	4701.13	49.37	-107.93	-58.56	-13.00	45.56	298	253	Vertical



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Test Band = SA n71_ 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	1356.8889	88.59	-118.54	-29.95	-13.00	16.95	163	293	Horizontal
2	2036	78.30	-116.30	-38.00	-13.00	25.00	241	360	Horizontal
3	2714.2222	71.02	-113.64	-42.62	-13.00	29.62	168	106	Horizontal
4	3392.4444	59.92	-112.08	-52.16	-13.00	39.16	175	327	Horizontal
5	4071.1111	55.07	-109.98	-54.91	-13.00	41.91	244	246	Horizontal
6	4753.63	51.51	-107.83	-56.32	-13.00	43.32	195	118	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1356.8889	65.38	-118.54	-53.16	-13.00	40.16	263	255	Vertical
2	2035.1111	61.81	-116.30	-54.49	-13.00	41.49	175	63	Vertical
3	2713.7778	63.30	-113.64	-50.34	-13.00	37.34	244	48	Vertical
4	3395.45	50.06	-112.09	-62.03	-13.00	49.03	175	47	Vertical
5	4074.54	49.14	-109.97	-60.83	-13.00	47.83	267	141	Vertical
6	4753.63	50.21	-107.83	-57.62	-13.00	44.62	176	151	Vertical



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Test Band = NSA DC_2A_n71_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	40.60	-95.91	-55.31	-13.00	42.31	263	359	Horizontal
2	1992.27	40.62	-93.45	-52.83	-13.00	39.83	142	104	Horizontal
3	2656.36	39.66	-90.77	-51.11	-13.00	38.11	264	136	Horizontal
4	3320.45	50.27	-111.68	-61.41	-13.00	48.41	206	0	Horizontal
5	3984.54	48.51	-110.15	-61.64	-13.00	48.64	214	70	Horizontal
6	4648.63	49.50	-107.87	-58.37	-13.00	45.37	186	0	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	39.62	-95.91	-56.29	-13.00	43.29	214	199	Vertical
2	1992.27	39.05	-93.45	-54.40	-13.00	41.40	163	230	Vertical
3	1992.27	39.05	-93.45	-54.40	-13.00	41.40	351	230	Vertical
4	3320.45	51.68	-111.68	-60.00	-13.00	47.00	111	112	Vertical
5	3984.54	48.75	-110.15	-61.40	-13.00	48.40	125	97	Vertical
6	4648.63	47.98	-107.87	-59.89	-13.00	46.89	175	126	Vertical



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Test Band = NSA DC_2A_n71_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	39.78	-95.86	-56.08	-13.00	43.08	210	239	Horizontal
2	2014.77	41.06	-93.34	-52.28	-13.00	39.28	233	113	Horizontal
3	2686.36	39.65	-90.61	-50.96	-13.00	37.96	211	133	Horizontal
4	3357.95	50.08	-111.71	-61.63	-13.00	48.63	152	200	Horizontal
5	4029.54	48.50	-109.93	-61.43	-13.00	48.43	265	3	Horizontal
6	4701.13	50.36	-107.64	-57.28	-13.00	44.28	142	51	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.18	40.22	-95.86	-55.64	-13.00	42.64	201	156	Vertical
2	2014.77	38.52	-93.34	-54.82	-13.00	41.82	163	104	Vertical
3	2686.36	37.54	-90.61	-53.07	-13.00	40.07	352	360	Vertical
4	3357.95	50.05	-111.71	-61.66	-13.00	48.66	142	41	Vertical
5	4029.54	49.00	-109.93	-60.93	-13.00	47.93	264	321	Vertical
6	4701.13	48.77	-107.64	-58.87	-13.00	45.87	152	0	Vertical



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Test Band = NSA DC_2A_n71_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	40.49	-95.81	-55.32	-13.00	42.32	214	239	Horizontal
2	2037.27	40.73	-93.27	-52.54	-13.00	39.54	163	124	Horizontal
3	2716.36	38.14	-90.45	-52.31	-13.00	39.31	352	51	Horizontal
4	3395.45	50.14	-111.75	-61.61	-13.00	48.61	142	174	Horizontal
5	4074.54	48.12	-109.65	-61.53	-13.00	48.53	268	1	Horizontal
6	4753.63	50.03	-107.61	-57.58	-13.00	44.58	172	268	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	39.96	-95.81	-55.85	-13.00	42.85	241	360	Vertical
2	2037.27	38.55	-93.27	-54.72	-13.00	41.72	162	82	Vertical
3	2716.36	37.57	-90.45	-52.88	-13.00	39.88	284	322	Vertical
4	3395.45	50.35	-111.75	-61.40	-13.00	48.40	264	45	Vertical
5	4074.54	47.90	-109.65	-61.75	-13.00	48.75	175	32	Vertical
6	4753.63	50.35	-107.61	-57.26	-13.00	44.26	264	138	Vertical



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Test Band = NSA DC_66A_n71_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	48.47	-95.91	-47.44	-13.00	34.44	210	104	Horizontal
2	1992.27	41.34	-93.45	-52.11	-13.00	39.11	236	240	Horizontal
3	2660.5	71.71	-90.75	-19.04	-13.00	6.04	214	104	Horizontal
4	3320.45	50.75	-111.68	-60.93	-13.00	47.93	185	320	Horizontal
5	3984.54	48.16	-110.15	-61.99	-13.00	48.99	265	0	Horizontal
6	4648.63	49.57	-107.87	-58.30	-13.00	45.30	215	108	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	39.33	-95.91	-56.58	-13.00	43.58	214	196	Vertical
2	1992.27	39.16	-93.45	-54.29	-13.00	41.29	163	58	Vertical
3	2656.36	37.51	-90.77	-53.26	-13.00	40.26	352	220	Vertical
4	3320.45	50.34	-111.68	-61.34	-13.00	48.34	144	0	Vertical
5	3984.54	49.11	-110.15	-61.04	-13.00	48.04	175	1	Vertical
6	4648.63	48.55	-107.87	-59.32	-13.00	46.32	264	347	Vertical



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Test Band = NSA DC_66A_n71_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	39.75	-95.86	-56.11	-13.00	41.30	214	229	Horizontal
2	2014.77	39.98	-93.34	-53.36	-13.00	40.36	163	93	Horizontal
3	2686.36	41.11	-90.61	-49.50	-13.00	37.74	241	114	Horizontal
4	3357.95	50.07	-111.71	-61.64	-13.00	48.64	175	97	Horizontal
5	4029.54	49.41	-109.93	-60.52	-13.00	47.52	264	178	Horizontal
6	4701.13	49.77	-107.64	-57.87	-13.00	44.87	175	45	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1343.18	39.64	-95.86	-56.22	-13.00	43.22	263	28	Vertical
2	2014.77	38.48	-93.34	-54.86	-13.00	41.86	214	3	Vertical
3	2686.36	38.18	-90.61	-52.43	-13.00	39.43	185	19	Vertical
4	3357.95	49.77	-111.71	-61.94	-13.00	48.94	264	111	Vertical
5	4029.54	48.47	-109.93	-61.46	-13.00	48.46	175	70	Vertical
6	4701.13	50.05	-107.64	-57.59	-13.00	44.59	264	201	Vertical



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Test Band = NSA DC_66A_n71_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	41.17	-95.81	-54.64	-13.00	41.64	241	186	Horizontal
2	2037.27	40.36	-93.27	-52.91	-13.00	39.91	162	144	Horizontal
3	2716.36	40.43	-90.45	-50.02	-13.00	37.02	241	113	Horizontal
4	3395.45	50.10	-111.75	-61.65	-13.00	48.65	111	96	Horizontal
5	4074.54	48.55	-109.65	-61.10	-13.00	48.10	185	0	Horizontal
6	4753.63	50.80	-107.61	-56.81	-13.00	43.81	264	162	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	39.80	-95.81	-56.01	-13.00	43.01	263	20	Vertical
2	2037.27	39.10	-93.27	-54.17	-13.00	41.17	351	359	Vertical
3	2716.36	37.51	-90.45	-52.94	-13.00	39.94	142	51	Vertical
4	3395.45	49.76	-111.75	-61.99	-13.00	48.99	265	136	Vertical
5	4074.54	49.64	-109.65	-60.01	-13.00	47.01	222	321	Vertical
6	4753.63	49.12	-107.61	-58.49	-13.00	45.49	214	1	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
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-17.900000	-0.026304	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-19.200000	-0.028215	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-14.900000	-0.021896	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VH	NT	-0.600000	-0.000882	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VN	NT	-3.800000	-0.005584	PASS
N71	15	20	CP-QPSK	M	Outer_Full	VL	NT	-3.700000	-0.005437	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-6.300000	-0.009258	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-12.500000	-0.018369	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-10.000000	-0.014695	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-10.500000	-0.015430	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-10.200000	-0.014989	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	-10.300000	-0.015136	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-7.200000	-0.010580	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-15.500000	-0.022777	PASS
N71	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-7.700000	-0.011315	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-30	-0.300000	-0.000441	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-20	-2.100000	-0.003086	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	-10	1.000000	0.001470	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	0	0.400000	0.000588	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	10	-0.700000	-0.001029	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	20	-0.900000	-0.001323	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	30	-3.000000	-0.004409	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	40	-0.700000	-0.001029	PASS
N71	15	20	CP-QPSK	M	Outer_Full	NV	50	-1.000000	-0.001470	PASS

The End



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