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Rev.: 01

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Test Band = NR CA 66A_n78A 3700-3800_ TM1 Test Channel = Low

Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7447.025	37.57	-42.97	36.47	-64.19	-13.00	51.19	211	360	Horizontal
2	8940.3	33.46	-40.89	38.16	-64.53	-13.00	51.53	136	360	Horizontal
3	11235.125	24.85	-36.82	39.11	-68.12	-13.00	55.12	251	360	Horizontal
4	11294.35	24.69	-37.19	39.11	-68.65	-13.00	55.65	145	120	Horizontal
5	13842.75	23.76	-35.96	40.00	-67.46	-13.00	54.46	196	165	Horizontal
6	14497.675	21.95	-34.25	40.01	-67.55	-13.00	54.55	100	224	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7343.525	38.68	-43.09	36.52	-63.15	-13.00	50.15	145	208	Vertical
2	8402.675	36.15	-41.38	37.34	-63.16	-13.00	50.16	166	163	Vertical
3	8487.2	35.46	-41.74	37.51	-64.03	-13.00	51.03	251	326	Vertical
4	10010.95	28.53	-39.31	38.51	-67.53	-13.00	54.53	136	74	Vertical
5	12201.7	23.75	-37.10	39.13	-69.48	-13.00	56.48	251	269	Vertical
6	12831.325	24.69	-36.70	39.66	-67.61	-13.00	54.61	150	239	Vertical



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Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7556.85	37.26	-42.93	36.41	-64.51	-13.00	51.51	211	238	Horizontal
2	8422.8	36.34	-41.47	37.38	-63.01	-13.00	50.01	136	360	Horizontal
3	9462.4	32.36	-39.94	38.47	-64.37	-13.00	51.37	251	117	Horizontal
4	12313.825	23.20	-36.69	39.10	-69.65	-13.00	56.65	166	298	Horizontal
5	12773.25	24.30	-36.68	39.58	-68.05	-13.00	55.05	185	148	Horizontal
6	13757.65	24.09	-36.14	40.00	-67.31	-13.00	54.31	169	298	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	8377.375	34.22	-41.48	37.30	-65.22	-40.00	25.22	287	350	Vertical
2	9557.85	31.08	-39.52	38.45	-65.25	-40.00	25.25	146	118	Vertical
3	11165.55	24.05	-37.00	39.10	-69.10	-40.00	29.10	295	251	Vertical
4	13838.15	23.99	-35.99	39.99	-67.27	-40.00	27.27	184	118	Vertical
5	15026.675	22.13	-34.44	39.18	-68.38	-40.00	28.38	172	359	Vertical
6	15820.175	24.01	-33.28	38.17	-66.36	-40.00	26.36	130	360	Vertical



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Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatity
1	6991.625	39.31	-43.07	36.07	-62.95	-13.00	49.95	211	239	Horizontal
2	8409	36.23	-41.41	37.35	-63.09	-13.00	50.09	136	299	Horizontal
3	9424.45	31.97	-39.93	38.48	-64.74	-13.00	51.74	256	179	Horizontal
4	10707.85	24.71	-37.57	39.15	-68.97	-13.00	55.97	145	179	Horizontal
5	12259.2	23.64	-36.83	39.11	-69.34	-13.00	56.34	195	90	Horizontal
6	15138.225	23.56	-34.20	39.03	-66.87	-13.00	53.87	182	4	Horizontal

Final	Data List									
NO	Frequency	Reading	Factor	V [[qD/22]	Level	Limit	Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7343.525	39.11	-43.09	36.52	-62.72	-13.00	49.72	255	206	Vertical
2	8402.675	35.83	-41.38	37.34	-63.48	-13.00	50.48	184	341	Vertical
3	8484.325	35.00	-41.73	37.51	-64.49	-13.00	51.49	185	359	Vertical
4	9565.325	30.29	-39.46	38.45	-65.98	-13.00	52.98	169	341	Vertical
5	11425.45	24.00	-37.26	39.08	-69.43	-13.00	56.43	182	313	Vertical
6	12830.175	24.08	-36.70	39.66	-68.22	-13.00	55.22	144	350	Vertical



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Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7792.6	35.88	-42.61	36.77	-65.22	-13.00	52.22	215	75	Horizontal
2	8942.025	33.80	-40.89	38.17	-64.19	-13.00	51.19	145	90	Horizontal
3	10627.35	24.77	-37.87	39.08	-69.28	-13.00	56.28	136	268	Horizontal
4	12772.675	24.27	-36.68	39.58	-68.09	-13.00	55.09	251	90	Horizontal
5	15183.65	22.99	-33.88	38.97	-67.18	-13.00	54.18	144	61	Horizontal
6	15843.75	23.79	-33.53	38.13	-66.87	-13.00	53.87	185	120	Horizontal

Final	Data List									
NO	Frequency	Reading	Factor	Λ Γ[-ID/]	Level	Limit	Margin	Height	Angle	Dalavitu
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7656.325	37.73	-42.86	36.50	-63.89	-13.00	50.89	245	281	Vertical
2	8939.725	33.94	-40.89	38.16	-64.05	-13.00	51.05	136	43	Vertical
3	9610.75	29.16	-39.23	38.43	-66.90	-13.00	53.90	251	360	Vertical
4	11143.7	24.72	-37.25	39.10	-68.69	-13.00	55.69	155	340	Vertical
5	12817.525	24.43	-36.66	39.65	-67.85	-13.00	54.85	146	238	Vertical
6	13701.3	23.62	-35.99	40.05	-67.58	-13.00	54.58	291	298	Vertical



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NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polatity
1	7562.6	36.95	-42.90	36.41	-64.80	-13.00	51.80	214	208	Horizontal
2	8971.925	33.64	-40.88	38.18	-64.32	-13.00	51.32	136	73	Horizontal
3	9475.625	32.22	-39.95	38.47	-64.52	-13.00	51.52	251	208	Horizontal
4	11227.075	24.90	-36.77	39.11	-68.02	-13.00	55.02	144	351	Horizontal
5	12803.15	24.11	-36.63	39.63	-68.14	-13.00	55.14	185	360	Horizontal
6	13858.275	23.57	-35.85	40.01	-67.53	-13.00	54.53	196	163	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Delevity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7343.525	38.31	-43.09	36.52	-63.52	-13.00	50.52	254	207	Vertical
2	8408.425	36.46	-41.41	37.35	-62.86	-13.00	49.86	126	326	Vertical
3	9479.65	32.14	-39.95	38.47	-64.60	-13.00	51.60	136	281	Vertical
4	11252.95	24.54	-36.93	39.11	-68.54	-13.00	55.54	255	295	Vertical
5	13743.85	23.92	-36.10	40.01	-67.43	-13.00	54.43	185	295	Vertical
6	15837.425	23.85	-33.46	38.14	-66.73	-13.00	53.73	196	3	Vertical



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NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	8411.3	36.37	-41.42	37.35	-62.95	-13.00	49.95	244	150	Horizontal
2	8975.95	33.19	-40.88	38.19	-64.76	-13.00	51.76	165	299	Horizontal
3	10025.9	27.94	-39.20	38.53	-67.99	-13.00	54.99	251	224	Horizontal
4	11204.075	24.24	-36.63	39.11	-68.54	-13.00	55.54	199	150	Horizontal
5	12766.35	24.01	-36.69	39.57	-68.37	-13.00	55.37	175	360	Horizontal
6	13862.3	23.51	-35.83	40.02	-67.56	-13.00	54.56	145	192	Horizontal

Final	Data List									
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Height	Angle	Delerity
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	7035.9	39.38	-43.23	36.17	-62.94	-13.00	49.94	214	251	Vertical
2	8413.6	35.90	-41.43	37.36	-63.43	-13.00	50.43	136	17	Vertical
3	9483.1	32.29	-39.95	38.47	-64.45	-13.00	51.45	251	237	Vertical
4	11286.3	25.05	-37.14	39.11	-68.24	-13.00	55.24	155	17	Vertical
5	13683.475	23.93	-36.00	40.07	-67.26	-13.00	54.26	142	312	Vertical
6	17213.975	25.94	-34.85	38.63	-65.54	-13.00	52.54	166	360	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



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Band	scs	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N78-3700-3800	30	100	DFT-PI2BPSK	М	Outer_Full	VH	NT	-7.700000	-0.002053	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	М	Outer_Full	VN	NT	-7.600000	-0.002027	PASS
N78-3700-3800	30	100	DFT-PI2BPSK	М	Outer_Full	VL	NT	-7.800000	-0.002080	PASS
N78-3700-3800	30	100	CP-QPSK	М	Outer_Full	VH	NT	-7.500000	-0.002000	PASS
N78-3700-3800	30	100	CP-QPSK	М	Outer_Full	VN	NT	-7.000000	-0.001867	PASS
N78-3700-3800	30	100	CP-QPSK	М	Outer_Full	VL	NT	-6.700000	-0.001787	PASS

Frequency Error VS. Temperature

Band SCS	Bandwidth								Frequency Error VS. Temperature											
		Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	-30	-8.300000	-0.002213	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	-20	-6.200000	-0.001653	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	-10	-4.500000	-0.001200	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	0	-4.300000	-0.001147	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	10	-6.900000	-0.001840	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	20	-7.200000	-0.001920	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	30	-5.800000	-0.001547	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	40	-6.500000	-0.001733	PASS											
N78-3700-3800 30	100	DFT-PI2BPSK	М	Outer_Full	NV	50	-5.800000	-0.001547	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	-30	-8.400000	-0.002240	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	-20	-6.900000	-0.001840	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	-10	-7.600000	-0.002027	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	0	-8.000000	-0.002133	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	10	-8.000000	-0.002133	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	20	-8.000000	-0.002133	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	30	-5.100000	-0.001360	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	40	-6.400000	-0.001707	PASS											
N78-3700-3800 30	100	CP-QPSK	М	Outer_Full	NV	50	-8.400000	-0.002240	PASS											

---End of Attachment---



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Report Template No./Rev.: WI-TRF-RG001/v01