



Test Band = NSA 5A_N66A_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4559.25	45.62	-47.99	30.44	-67.19	-13.00	54.19	Horizontal
2	6129	44.97	-47.43	33.24	-64.48	-13.00	51.48	Horizontal
3	8357.25	42.12	-44.30	36.70	-60.74	-13.00	47.74	Horizontal
4	10243.5	39.96	-41.71	38.72	-58.29	-13.00	45.29	Horizontal
5	13269.75	38.03	-38.97	39.22	-56.98	-13.00	43.98	Horizontal
6	14760	36.77	-36.78	40.29	-54.98	-13.00	41.98	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4461	44.90	-48.03	30.23	-68.16	-13.00	55.16	Vertical
2	5591.25	44.78	-47.69	32.72	-65.45	-13.00	52.45	Vertical
3	7249.5	43.91	-46.18	36.20	-61.33	-13.00	48.33	Vertical
4	8809.5	42.15	-43.99	37.33	-59.77	-13.00	46.77	Vertical
5	11865.75	38.17	-39.95	39.23	-57.81	-13.00	44.81	Vertical
6	14757.75	37.47	-36.78	40.29	-54.27	-13.00	41.27	Vertical



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Test Band = NSA 13A_N66A_TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4033.5	45.22	-48.14	29.46	-68.72	-13.00	55.72	Horizontal
2	5153.25	44.93	-47.86	31.87	-66.32	-13.00	53.32	Horizontal
3	6120	44.76	-47.41	33.21	-64.71	-13.00	51.71	Horizontal
4	7664.25	42.91	-44.98	36.60	-60.73	-13.00	47.73	Horizontal
5	9244.5	41.79	-43.25	37.82	-58.90	-13.00	45.90	Horizontal
6	12562.5	37.55	-39.33	38.86	-58.18	-13.00	45.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4167.75	44.90	-48.26	29.70	-68.92	-13.00	55.92	Vertical
2	5069.25	44.61	-47.88	31.67	-66.86	-13.00	53.86	Vertical
3	7068.75	44.15	-46.07	35.77	-61.42	-13.00	48.42	Vertical
4	9282.75	41.22	-42.99	37.85	-59.18	-13.00	46.18	Vertical
5	12119.25	38.56	-39.67	39.13	-57.24	-13.00	44.24	Vertical
6	14697	36.76	-36.72	40.34	-54.88	-13.00	41.88	Vertical



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Test Band = NSA 13A_N66A_TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4278	44.67	-47.91	29.90	-68.60	-13.00	55.60	Horizontal
2	5774.25	44.47	-47.61	32.75	-65.64	-13.00	52.64	Horizontal
3	7426.5	43.68	-46.17	36.62	-61.13	-13.00	48.13	Horizontal
4	9354.75	41.71	-42.97	37.92	-58.60	-13.00	45.60	Horizontal
5	12020.25	38.23	-39.46	39.19	-57.30	-13.00	44.30	Horizontal
6	14766.75	37.06	-36.79	40.29	-54.71	-13.00	41.71	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4062.75	45.05	-48.10	29.51	-68.80	-13.00	55.80	Vertical
2	5286.75	45.15	-47.79	32.19	-65.72	-13.00	52.72	Vertical
3	6660.75	44.17	-46.75	34.85	-62.98	-13.00	49.98	Vertical
4	8408.25	41.80	-44.12	36.77	-60.81	-13.00	47.81	Vertical
5	11661.75	38.14	-39.70	39.27	-57.55	-13.00	44.55	Vertical
6	14653.5	36.87	-37.27	40.38	-55.28	-13.00	42.28	Vertical



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Test Band = NSA 13A_N66A_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4133.25	44.88	-48.16	29.64	-68.90	-13.00	55.90	Horizontal
2	5770.5	45.21	-47.60	32.75	-64.90	-13.00	51.90	Horizontal
3	6870.75	44.13	-46.78	35.32	-62.59	-13.00	49.59	Horizontal
4	8253	41.53	-44.38	36.55	-61.55	-13.00	48.55	Horizontal
5	11471.25	38.85	-40.07	39.31	-57.17	-13.00	44.17	Horizontal
6	14830.5	37.13	-37.01	40.24	-54.90	-13.00	41.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4312.5	44.51	-47.82	29.96	-68.61	-13.00	55.61	Vertical
2	6316.5	44.41	-47.26	33.88	-64.23	-13.00	51.23	Vertical
3	8298	41.84	-44.54	36.62	-61.35	-13.00	48.35	Vertical
4	9609.75	40.53	-42.23	38.15	-58.81	-13.00	45.81	Vertical
5	12003	37.96	-39.43	39.20	-57.53	-13.00	44.53	Vertical
6	14475.75	37.33	-38.57	40.52	-55.98	-13.00	42.98	Vertical



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Test Band = NR N2A_N66A_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3837	45.62	-48.22	29.17	-68.69	-13.00	55.69	Horizontal
2	4790.25	44.20	-48.01	31.00	-68.07	-13.00	55.07	Horizontal
3	6190.5	44.79	-47.53	33.45	-64.56	-13.00	51.56	Horizontal
4	8196	41.12	-44.20	36.47	-61.87	-13.00	48.87	Horizontal
5	9459.75	40.93	-42.64	38.01	-58.96	-13.00	45.96	Horizontal
6	13403.25	37.96	-39.17	39.53	-56.94	-13.00	43.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4011.75	45.04	-48.17	29.42	-68.96	-13.00	55.96	Vertical
2	5890.5	44.36	-47.20	32.78	-65.32	-13.00	52.32	Vertical
3	7555.5	41.87	-45.28	36.73	-61.94	-13.00	48.94	Vertical
4	9060.75	40.52	-42.97	37.65	-60.05	-13.00	47.05	Vertical
5	11268.75	38.83	-40.42	39.35	-57.51	-13.00	44.51	Vertical
6	14821.5	37.37	-36.96	40.24	-54.61	-13.00	41.61	Vertical



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Test Band = NR N2A_N66A_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4039.5	44.91	-48.13	29.47	-69.01	-13.00	56.01	Horizontal
2	4884.75	44.40	-48.03	31.22	-67.66	-13.00	54.66	Horizontal
3	5546.25	44.57	-47.65	32.71	-65.63	-13.00	52.63	Horizontal
4	7418.25	43.05	-46.17	36.60	-61.78	-13.00	48.78	Horizontal
5	8769.75	41.65	-44.03	37.28	-60.36	-13.00	47.36	Horizontal
6	14648.25	36.69	-37.34	40.38	-55.53	-13.00	42.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4002.75	46.19	-48.18	29.40	-67.84	-13.00	54.84	Vertical
2	4802.25	44.15	-48.01	31.03	-68.10	-13.00	55.10	Vertical
3	6812.25	44.16	-46.87	35.19	-62.78	-13.00	49.78	Vertical
4	8811	42.08	-43.99	37.34	-59.84	-13.00	46.84	Vertical
5	11676	37.78	-39.69	39.26	-57.90	-13.00	44.90	Vertical
6	14699.25	36.88	-36.69	40.34	-54.73	-13.00	41.73	Vertical



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Test Band = NR N2A_N66A_TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4105.5	45.04	-48.08	29.59	-68.71	-13.00	55.71	Horizontal
2	5068.5	44.72	-47.88	31.66	-66.76	-13.00	53.76	Horizontal
3	6850.5	44.12	-46.81	35.27	-62.68	-13.00	49.68	Horizontal
4	8776.5	42.02	-44.02	37.29	-59.97	-13.00	46.97	Horizontal
5	11402.25	38.95	-40.08	39.32	-57.07	-13.00	44.07	Horizontal
6	14764.5	36.79	-36.79	40.29	-54.97	-13.00	41.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3868.5	45.41	-48.26	29.22	-68.89	-13.00	55.89	Vertical
2	5708.25	44.16	-47.50	32.74	-65.86	-13.00	52.86	Vertical
3	6925.5	43.82	-46.70	35.44	-62.70	-13.00	49.70	Vertical
4	7897.5	43.17	-45.44	36.32	-61.20	-13.00	48.20	Vertical
5	12843	38.13	-39.36	38.69	-57.79	-13.00	44.79	Vertical
6	14772.75	36.91	-36.80	40.28	-54.87	-13.00	41.87	Vertical



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Test Band = NR N5A_N66A_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	44.42	-48.38	28.67	-70.55	-13.00	57.55	Horizontal
2	5133.27	43.37	-47.84	31.82	-67.91	-13.00	54.91	Horizontal
3	6844.36	42.88	-46.82	35.26	-63.94	-13.00	50.94	Horizontal
4	8555.45	40.44	-44.11	36.98	-61.95	-13.00	48.95	Horizontal
5	10266.54	38.18	-41.48	38.74	-59.82	-13.00	46.82	Horizontal
6	11977.63	37.36	-39.54	39.20	-58.24	-13.00	45.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3422.18	44.63	-48.38	28.67	-70.34	-13.00	57.34	Vertical
2	5133.27	43.37	-47.84	31.82	-67.91	-13.00	54.91	Vertical
3	6844.36	42.61	-46.82	35.26	-64.21	-13.00	51.21	Vertical
4	8555.45	41.05	-44.11	36.98	-61.34	-13.00	48.34	Vertical
5	10266.54	38.31	-41.48	38.74	-59.69	-13.00	46.69	Vertical
6	11977.63	37.07	-39.54	39.20	-58.53	-13.00	45.53	Vertical



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Test Band = NR N5A_N66A_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	44.29	-48.32	28.69	-70.60	-13.00	57.60	Horizontal
2	5208.27	43.42	-47.88	32.00	-67.72	-13.00	54.72	Horizontal
3	6944.36	42.80	-46.67	35.48	-63.65	-13.00	50.65	Horizontal
4	8680.45	41.24	-44.09	37.15	-60.96	-13.00	47.96	Horizontal
5	10416.54	38.74	-41.14	38.88	-58.79	-13.00	45.79	Horizontal
6	12152.63	37.45	-39.73	39.11	-58.43	-13.00	45.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3472.18	44.31	-48.32	28.69	-70.58	-13.00	57.58	Vertical
2	5208.27	43.42	-47.88	32.00	-67.72	-13.00	54.72	Vertical
3	6944.36	42.89	-46.67	35.48	-63.56	-13.00	50.56	Vertical
4	8680.45	40.48	-44.09	37.15	-61.72	-13.00	48.72	Vertical
5	10416.54	38.89	-41.14	38.88	-58.64	-13.00	45.64	Vertical
6	12152.63	36.89	-39.73	39.11	-58.99	-13.00	45.99	Vertical



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Test Band = NR N5A_N66A_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.18	45.17	-48.29	28.73	-69.65	-13.00	56.65	Horizontal
2	5283.27	44.03	-47.80	32.18	-66.85	-13.00	53.85	Horizontal
3	7044.36	42.76	-46.26	35.71	-63.05	-13.00	50.05	Horizontal
4	8805.45	40.58	-43.99	37.33	-61.34	-13.00	48.34	Horizontal
5	10566.54	38.26	-41.05	39.01	-59.04	-13.00	46.04	Horizontal
6	12327.63	37.35	-39.68	39.00	-58.59	-13.00	45.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3522.18	44.37	-48.29	28.73	-70.45	-13.00	57.45	Vertical
2	5283.27	44.09	-47.80	32.18	-66.79	-13.00	53.79	Vertical
3	7044.36	42.80	-46.26	35.71	-63.01	-13.00	50.01	Vertical
4	8805.45	41.62	-43.99	37.33	-60.30	-13.00	47.30	Vertical
5	10566.54	37.94	-41.05	39.01	-59.36	-13.00	46.36	Vertical
6	12327.63	36.83	-39.68	39.00	-59.11	-13.00	46.11	Vertical



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Test Band = NR N48A_N66A_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7689.2917	43.26	-45.11	36.57	-60.54	-40.00	20.54	Horizontal
2	8982.5625	41.67	-43.62	37.58	-59.63	-40.00	19.63	Horizontal
3	11337.6667	38.89	-40.17	39.33	-57.21	-40.00	17.21	Horizontal
4	13474.2708	38.05	-38.98	39.69	-56.50	-40.00	16.50	Horizontal
5	14823.6042	37.11	-37.74	40.24	-55.65	-40.00	15.65	Horizontal
6	17966.9375	37.10	-37.07	45.09	-50.14	-40.00	10.14	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7627.4792	43.11	-44.95	36.65	-60.45	-40.00	20.45	Vertical
2	8862.2917	41.82	-43.67	37.41	-59.70	-40.00	19.70	Vertical
3	12000.3542	38.02	-38.56	39.20	-56.60	-40.00	16.60	Vertical
4	13927.5625	37.65	-38.56	40.73	-55.44	-40.00	15.44	Vertical
5	15461.375	37.52	-38.02	39.22	-56.53	-40.00	16.53	Vertical
6	17753.2292	36.33	-37.93	43.72	-53.14	-40.00	13.14	Vertical



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Test Band = NR N48A_N66A_TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7196.2292	43.49	-45.47	36.07	-61.17	-40.00	21.17	Horizontal
2	8496.6875	41.84	-43.70	36.90	-60.23	-40.00	20.23	Horizontal
3	10771.7708	40.08	-40.55	39.19	-56.54	-40.00	16.54	Horizontal
4	12442.1458	37.85	-38.52	38.93	-57.00	-40.00	17.00	Horizontal
5	14182.9583	37.24	-38.25	40.75	-55.52	-40.00	15.52	Horizontal
6	17514.6042	36.37	-36.21	42.19	-52.91	-40.00	12.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7890.0625	43.60	-44.96	36.33	-60.29	-40.00	20.29	Vertical
2	9282.0417	42.08	-42.95	37.85	-58.27	-40.00	18.27	Vertical
3	12036.7708	38.13	-38.87	39.18	-56.82	-40.00	16.82	Vertical
4	14112.0417	37.71	-38.67	40.81	-55.41	-40.00	15.41	Vertical
5	17272.625	36.79	-37.13	40.64	-54.95	-40.00	14.95	Vertical
6	17959.75	36.97	-37.09	45.04	-50.34	-40.00	10.34	Vertical



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Test Band = NR N48A_N66A_TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7691.2083	43.40	-45.12	36.57	-60.41	-40.00	20.41	Horizontal
2	8870.4375	41.99	-43.64	37.42	-59.49	-40.00	19.49	Horizontal
3	11375.5208	38.96	-39.89	39.32	-56.87	-40.00	16.87	Horizontal
4	13771.8333	38.07	-38.36	40.38	-55.17	-40.00	15.17	Horizontal
5	15642.5	37.03	-37.89	38.88	-57.24	-40.00	17.24	Horizontal
6	17506.4583	36.04	-36.16	42.14	-53.24	-40.00	13.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7694.5625	43.48	-45.13	36.57	-60.34	-40.00	20.34	Vertical
2	8749.6875	41.62	-43.77	37.25	-60.16	-40.00	20.16	Vertical
3	11560.4792	38.61	-39.56	39.29	-56.93	-40.00	16.93	Vertical
4	12902.625	37.62	-38.42	38.66	-57.40	-40.00	17.40	Vertical
5	15657.8333	37.18	-37.89	38.85	-57.12	-40.00	17.12	Vertical
6	17959.75	36.58	-37.09	45.04	-50.73	-40.00	10.73	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

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-0.600000	-0.000263	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-1.700000	-0.001126	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.500000	-0.001456	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VH	NT	-1.900000	-0.002635	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VN	NT	-2.700000	-0.001237	PASS
N66	15	40	CP-QPSK	M	Outer_Full	VL	NT	-1.200000	-0.002363	PASS

Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	1.600000	0.002354	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-2.700000	-0.001635	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	0.700000	0.000263	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	1.500000	0.001253	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	4.700000	0.002598	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-0.600000	-0.002563	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	2.400000	0.001359	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.600000	-0.001568	PASS
N66	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	0.500000	0.000239	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-30	-1.200000	-0.001263	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-20	0.120000	0.002365	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	-10	-1.600000	-0.002357	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	0	-1.600000	-0.002354	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	10	0.900000	0.002386	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	20	-2.200000	-0.001365	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	30	1.300000	0.000536	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	40	-0.500000	-0.000263	PASS
N66	15	40	CP-QPSK	M	Outer_Full	NV	50	0.800000	0.000241	PASS

---End of Attachment---



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