

Report No.: SEWA2204000009RG02

Rev.: 01

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Test Band = NR SA Band n7_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	50.67	-44.71	32.60	-56.70	-25.00	31.70	263	141	Horizontal
2	7551.27	48.24	-41.43	36.60	-51.84	-25.00	26.84	265	141	Horizontal
3	10068.36	44.29	-36.91	38.58	-49.31	-25.00	24.31	241	98	Horizontal
4	12585.45	42.97	-34.63	39.19	-47.74	-25.00	22.74	178	357	Horizontal
5	15102.54	41.88	-34.31	39.07	-48.62	-25.00	23.62	266	262	Horizontal
6	17619.63	39.64	-31.63	41.08	-46.17	-25.00	21.17	201	287	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	5034.18	50.22	-44.71	32.60	-57.15	-25.00	32.15	206	45	Vertical
2	7551.27	48.56	-41.43	36.60	-51.52	-25.00	26.52	251	3	Vertical
3	10068.36	44.95	-36.91	38.58	-48.65	-25.00	23.65	141	315	Vertical
4	12585.45	44.41	-34.63	39.19	-46.30	-25.00	21.30	196	331	Vertical
5	15102.54	42.02	-34.31	39.07	-48.48	-25.00	23.48	263	360	Vertical
6	17619.63	39.09	-31.63	41.08	-46.72	-25.00	21.72	208	97	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = NR SA Band n7_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	49.53	-44.51	32.60	-57.64	-25.00	32.64	142	114	Horizontal
2	7596.27	48.73	-41.27	36.69	-51.11	-25.00	26.11	263	36	Horizontal
3	10128.36	44.57	-36.73	38.64	-48.78	-25.00	23.78	265	339	Horizontal
4	12660.45	43.63	-34.90	39.26	-47.27	-25.00	22.27	284	209	Horizontal
5	15192.54	41.47	-32.61	38.95	-47.46	-25.00	22.46	175	360	Horizontal
6	17724.63	39.58	-30.93	41.50	-45.11	-25.00	20.11	299	157	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	5064.18	49.52	-44.51	32.60	-57.65	-25.00	32.65	201	186	Vertical
2	7596.27	49.80	-41.27	36.69	-50.04	-25.00	25.04	142	186	Vertical
3	10128.36	44.69	-36.73	38.64	-48.66	-25.00	23.66	156	332	Vertical
4	12660.45	44.21	-34.90	39.26	-46.69	-25.00	21.69	263	3	Vertical
5	15192.54	42.05	-32.61	38.95	-46.88	-25.00	21.88	265	358	Vertical
6	17724.63	38.82	-30.93	41.50	-45.87	-25.00	20.87	209	236	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = DC_5A_n7A_TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	49.15	-44.90	32.60	-58.41	-25.00	33.41	201	48	Horizontal
2	7506.27	46.40	-41.58	36.51	-53.93	-25.00	28.93	142	84	Horizontal
3	10008.36	43.64	-37.12	38.51	-50.23	-25.00	25.23	263	216	Horizontal
4	12510.45	41.59	-35.18	39.11	-49.74	-25.00	24.74	265	269	Horizontal
5	15012.54	39.72	-34.02	39.18	-50.38	-25.00	25.38	295	305	Horizontal
6	17514.63	38.15	-31.88	40.66	-48.32	-25.00	23.32	284	118	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	5004.18	49.57	-44.90	32.60	-57.99	-25.00	32.99	201	295	Vertical
2	7506.27	46.85	-41.58	36.51	-53.48	-25.00	28.48	142	345	Vertical
3	10008.36	42.79	-37.12	38.51	-51.08	-25.00	26.08	265	171	Vertical
4	12510.45	40.31	-35.18	39.11	-51.02	-25.00	26.02	284	359	Vertical
5	15012.54	38.78	-34.02	39.18	-51.32	-25.00	26.32	142	313	Vertical
6	17514.63	38.98	-31.88	40.66	-47.49	-25.00	22.49	263	242	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = DC_5A_n7A_TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	49.66	-44.71	32.60	-57.71	-25.00	32.71	263	3	Horizontal
2	7551.27	46.51	-41.43	36.60	-53.57	-25.00	28.57	254	180	Horizontal
3	10068.36	41.81	-36.91	38.58	-51.79	-25.00	26.79	174	233	Horizontal
4	12585.45	39.33	-34.63	39.19	-51.38	-25.00	26.38	142	144	Horizontal
5	15102.54	39.64	-34.31	39.07	-50.86	-25.00	25.86	265	360	Horizontal
6	17619.63	39.36	-31.63	41.08	-46.45	-25.00	21.45	296	359	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	5034.18	48.01	-44.71	32.60	-59.36	-25.00	34.36	265	55	Vertical
2	7551.27	47.29	-41.43	36.60	-52.79	-25.00	27.79	241	37	Vertical
3	10068.36	42.59	-36.91	38.58	-51.01	-25.00	26.01	174	268	Vertical
4	12585.45	39.73	-34.63	39.19	-50.98	-25.00	25.98	152	359	Vertical
5	15102.54	39.07	-34.31	39.07	-51.43	-25.00	26.43	232	82	Vertical
6	17619.63	37.99	-31.63	41.08	-47.82	-25.00	22.82	265	126	Vertical



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Test Band = DC_5A_n7A_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	49.23	-44.51	32.60	-57.94	-25.00	32.94	263	3	Horizontal
2	7596.27	46.04	-41.27	36.69	-53.80	-25.00	28.80	254	55	Horizontal
3	10128.36	44.34	-36.73	38.64	-49.01	-25.00	24.01	142	360	Horizontal
4	12660.45	40.59	-34.90	39.26	-50.31	-25.00	25.31	286	110	Horizontal
5	15192.54	38.91	-32.61	38.95	-50.02	-25.00	25.02	201	19	Horizontal
6	17724.63	37.87	-30.93	41.50	-46.82	-25.00	21.82	144	286	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	5064.18	49.58	-44.51	32.60	-57.59	-25.00	32.59	142	353	Vertical
2	7596.27	46.93	-41.27	36.69	-52.91	-25.00	27.91	263	222	Vertical
3	10128.36	42.56	-36.73	38.64	-50.79	-25.00	25.79	201	322	Vertical
4	12660.45	40.87	-34.90	39.26	-50.03	-25.00	25.03	142	353	Vertical
5	15192.54	39.57	-32.61	38.95	-49.36	-25.00	24.36	296	360	Vertical
6	17724.63	38.33	-30.93	41.50	-46.36	-25.00	21.36	233	204	Vertical



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Test Band = DC_12A_n7A_ TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	48.62	-44.90	32.60	-58.94	-25.00	33.94	263	232	Horizontal
2	7506.27	47.51	-41.58	36.51	-52.82	-25.00	27.82	254	37	Horizontal
3	10008.36	43.73	-37.12	38.51	-50.14	-25.00	25.14	174	98	Horizontal
4	12510.45	40.84	-35.18	39.11	-50.49	-25.00	25.49	142	268	Horizontal
5	15012.54	38.68	-34.02	39.18	-51.42	-25.00	26.42	255	352	Horizontal
6	17514.63	39.36	-31.88	40.66	-47.11	-25.00	22.11	263	232	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	5004.18	48.32	-44.90	32.60	-59.24	-25.00	34.24	201	313	Vertical
2	7506.27	46.14	-41.58	36.51	-54.19	-25.00	29.19	142	251	Vertical
3	10008.36	42.78	-37.12	38.51	-51.09	-25.00	26.09	265	126	Vertical
4	12510.45	40.82	-35.18	39.11	-50.51	-25.00	25.51	296	83	Vertical
5	15012.54	39.04	-34.02	39.18	-51.06	-25.00	26.06	233	92	Vertical
6	17514.63	38.71	-31.88	40.66	-47.76	-25.00	22.76	204	353	Vertical



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Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.18	49.52	-44.71	32.60	-57.85	-25.00	32.85	263	360	Horizontal
2	7551.27	48.10	-41.43	36.60	-51.98	-25.00	26.98	254	109	Horizontal
3	10068.36	42.91	-36.91	38.58	-50.69	-25.00	25.69	142	11	Horizontal
4	12585.45	39.78	-34.63	39.19	-50.93	-25.00	25.93	285	268	Horizontal
5	15102.54	39.28	-34.31	39.07	-51.22	-25.00	26.22	263	353	Horizontal
6	17619.63	38.29	-31.63	41.08	-47.52	-25.00	22.52	201	357	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	5034.18	48.57	-44.71	32.60	-58.80	-25.00	33.80	142	305	Vertical
2	7551.27	47.85	-41.43	36.60	-52.23	-25.00	27.23	241	83	Vertical
3	10068.36	42.80	-36.91	38.58	-50.80	-25.00	25.80	211	346	Vertical
4	12585.45	39.23	-34.63	39.19	-51.48	-25.00	26.48	122	38	Vertical
5	15102.54	39.53	-34.31	39.07	-50.97	-25.00	25.97	296	154	Vertical
6	17619.63	39.60	-31.63	41.08	-46.21	-25.00	21.21	214	172	Vertical



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Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.18	50.70	-44.51	32.60	-56.47	-25.00	31.47	253	286	Horizontal
2	7596.27	46.21	-41.27	36.69	-53.63	-25.00	28.63	265	144	Horizontal
3	10128.36	42.96	-36.73	38.64	-50.39	-25.00	25.39	241	81	Horizontal
4	12660.45	41.39	-34.90	39.26	-49.51	-25.00	24.51	101	135	Horizontal
5	15192.54	40.40	-32.61	38.95	-48.53	-25.00	23.53	263	242	Horizontal
6	17724.63	37.29	-30.93	41.50	-47.40	-25.00	22.40	201	162	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	5064.18	49.15	-44.51	32.60	-58.02	-25.00	33.02	265	276	Vertical
2	7596.27	46.49	-41.27	36.69	-53.35	-25.00	28.35	295	11	Vertical
3	10128.36	43.26	-36.73	38.64	-50.09	-25.00	25.09	241	339	Vertical
4	12660.45	42.10	-34.90	39.26	-48.80	-25.00	23.80	175	63	Vertical
5	15192.54	40.31	-32.61	38.95	-48.62	-25.00	23.62	222	170	Vertical
6	17724.63	37.50	-30.93	41.50	-47.19	-25.00	22.19	268	359	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = DC_66A_n7A_TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.18	49.74	-44.90	32.60	-57.82	-25.00	32.82	263	136	Horizontal
2	7506.27	49.14	-41.58	36.51	-51.19	-25.00	26.19	254	145	Horizontal
3	10008.36	42.73	-37.12	38.51	-51.14	-25.00	26.14	142	154	Horizontal
4	12510.45	40.70	-35.18	39.11	-50.63	-25.00	25.63	286	360	Horizontal
5	15012.54	39.19	-34.02	39.18	-50.91	-25.00	25.91	263	269	Horizontal
6	17514.63	38.60	-31.88	40.66	-47.87	-25.00	22.87	201	179	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	5004.18	49.89	-44.90	32.60	-57.67	-25.00	32.67	201	197	Vertical
2	7506.27	47.44	-41.58	36.51	-52.89	-25.00	27.89	362	251	Vertical
3	10008.36	43.86	-37.12	38.51	-50.01	-25.00	25.01	241	359	Vertical
4	12510.45	40.78	-35.18	39.11	-50.55	-25.00	25.55	284	117	Vertical
5	15012.54	39.18	-34.02	39.18	-50.92	-25.00	25.92	176	215	Vertical
6	17514.63	38.41	-31.88	40.66	-48.06	-25.00	23.06	201	359	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = DC_66A_n7A_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	49.32	-44.60	32.60	-57.94	-25.00	32.94	263	8	Horizontal
2	7578.27	47.42	-41.33	36.66	-52.51	-25.00	27.51	254	31	Horizontal
3	10104.36	44.37	-36.80	38.62	-49.07	-25.00	24.07	142	316	Horizontal
4	12630.45	41.12	-34.73	39.23	-49.63	-25.00	24.63	285	253	Horizontal
5	15156.54	40.41	-33.26	38.99	-49.12	-25.00	24.12	263	357	Horizontal
6	17682.63	38.48	-31.11	41.33	-46.56	-25.00	21.56	201	280	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	5052.18	49.94	-44.60	32.60	-57.32	-25.00	32.32	263	288	Vertical
2	7578.27	46.81	-41.33	36.66	-53.12	-25.00	28.12	265	357	Vertical
3	10104.36	43.90	-36.80	38.62	-49.54	-25.00	24.54	241	0	Vertical
4	12630.45	42.56	-34.73	39.23	-48.19	-25.00	23.19	142	180	Vertical
5	15156.54	40.09	-33.26	38.99	-49.44	-25.00	24.44	285	8	Vertical
6	17682.63	37.69	-31.11	41.33	-47.35	-25.00	22.35	204	0	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = DC_66A_n7A_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	49.21	-44.28	32.60	-57.73	-25.00	32.73	201	11	Horizontal
2	7653.27	48.58	-41.30	36.81	-51.17	-25.00	26.17	142	0	Horizontal
3	10204.36	41.75	-36.57	38.73	-51.35	-25.00	26.35	263	297	Horizontal
4	12755.45	41.33	-35.10	39.36	-49.68	-25.00	24.68	265	341	Horizontal
5	15306.54	40.33	-33.87	38.80	-50.00	-25.00	25.00	241	341	Horizontal
6	17857.63	40.17	-30.96	42.03	-44.01	-25.00	19.01	185	193	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	5102.18	51.01	-44.28	32.60	-55.93	-25.00	30.93	263	150	Vertical
2	7653.27	48.79	-41.30	36.81	-50.96	-25.00	25.96	265	298	Vertical
3	10204.36	41.03	-36.57	38.73	-52.07	-25.00	27.07	241	0	Vertical
4	12755.45	41.35	-35.10	39.36	-49.66	-25.00	24.66	174	47	Vertical
5	15306.54	40.68	-33.87	38.80	-49.65	-25.00	24.65	185	211	Vertical
6	17857.63	39.88	-30.96	42.03	-44.30	-25.00	19.30	266	202	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
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	12.700000	0.005010	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	5.600000	0.002209	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.600000	-0.000237	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VH	NT	3.900000	0.001538	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VN	NT	6.100000	0.002406	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VL	NT	4.500000	0.001775	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	17.100000	0.006746	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	22.800000	0.008994	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	18.700000	0.007377	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	19.500000	0.007692	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	21.500000	0.008481	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	32.300000	0.012742	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	18.600000	0.007337	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	21.200000	0.008363	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	13.800000	0.005444	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-30	12.300000	0.004852	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-20	6.200000	0.002446	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-10	12.300000	0.004852	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	0	2.000000	0.000789	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	10	9.700000	0.003826	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	20	1.900000	0.000750	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	30	7.700000	0.003037	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	40	8.900000	0.003511	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	50	-6.400000	-0.002525	PASS

 $|\text{MAX}(\Delta f)| = 32.3\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	2500.562354	$\geq 2500\text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	2569.456982	$\leq 2570\text{ MHz}$	

---End of Attachment---



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