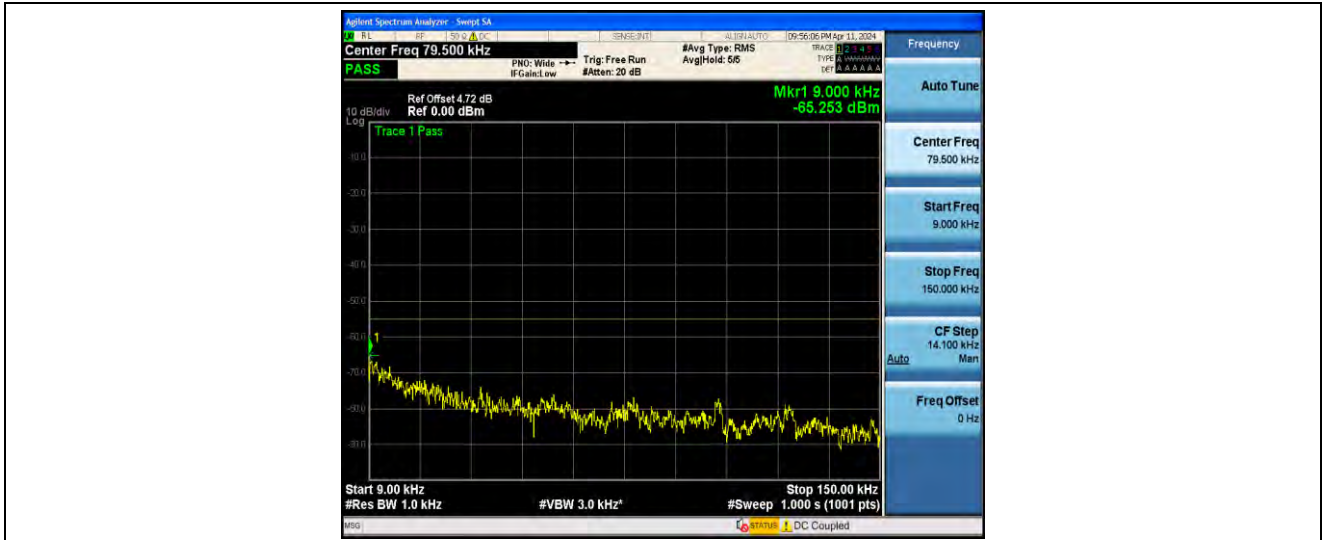




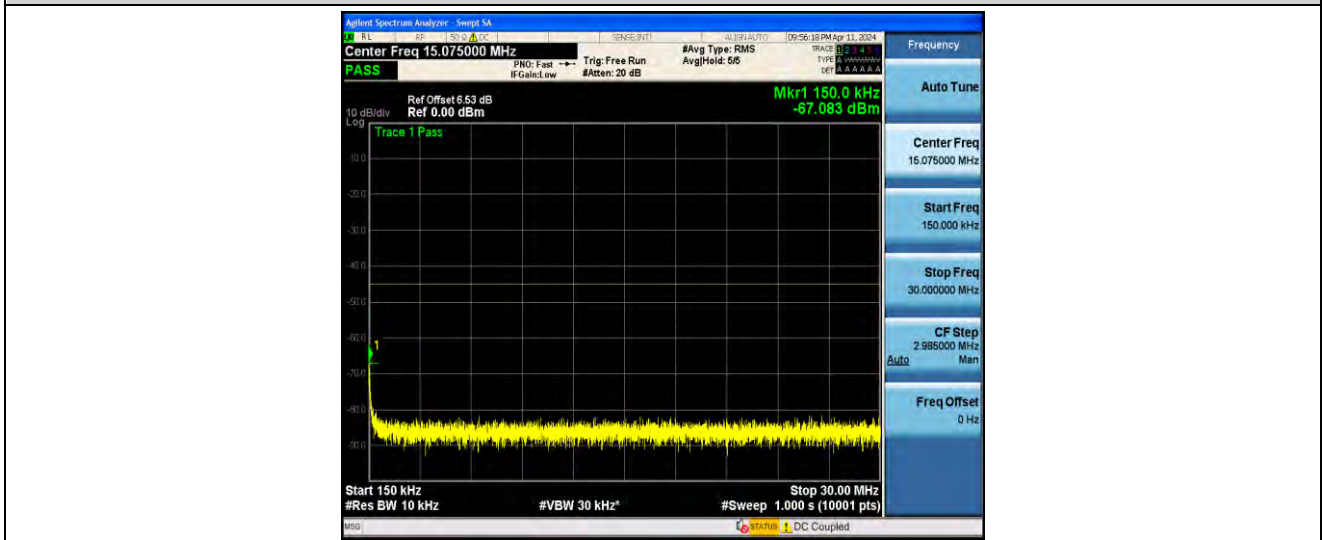
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Test Graphs



1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT0-0.01--65.25--55-PASS



1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.15-30-ANT0-0.15--67.08--45-PASS



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1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-30-1000-ANT0-900.96--54.85--35-PASS



1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-1000-3000-ANT0-2671.70--40.34--25-PASS



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1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-3000-12000-ANT0-5824.20--47.10--25-PASS



1-N7-PC3-15-40-L-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-20000-ANT0-18777.20--44.10--25-PA

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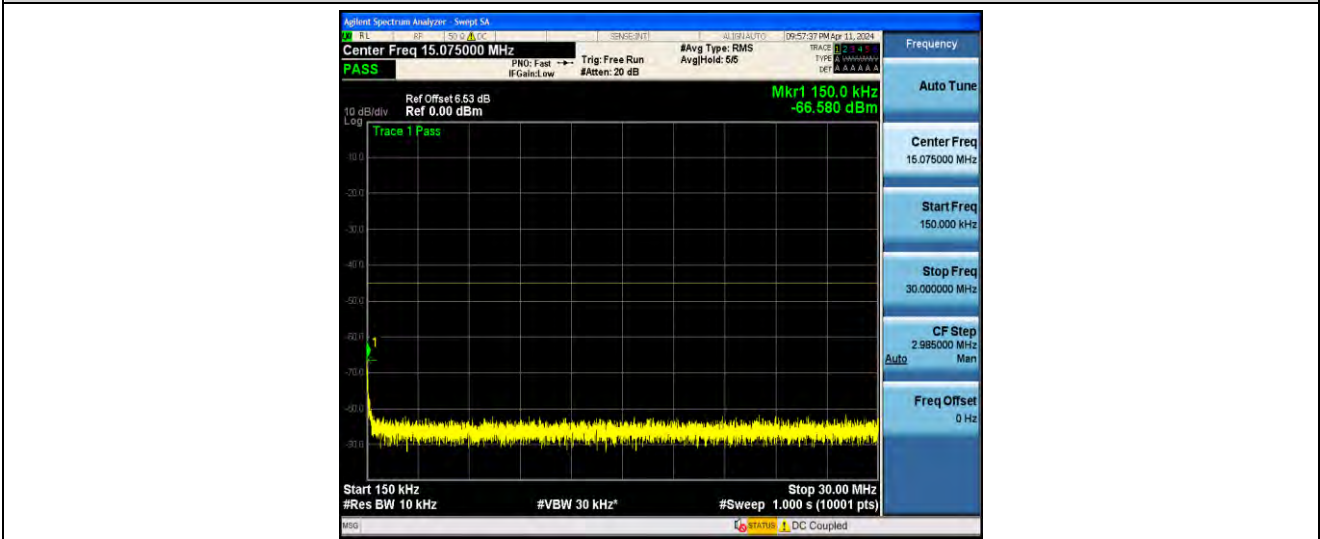


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1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT0-0.01--65.81--55-PASS



1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.15-30-ANT0-0.15--66.58--45-PASS



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1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-30-1000-ANT0-888.16--54.97--35-PASS



1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-1000-3000-ANT0-2657.00--40.37--25-PASS



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1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-3000-12000-ANT0-5896.65--47.02--25-PAS
S



1-N7-PC3-15-40-M-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-20000-ANT0-18738.40--44.02--25-PA
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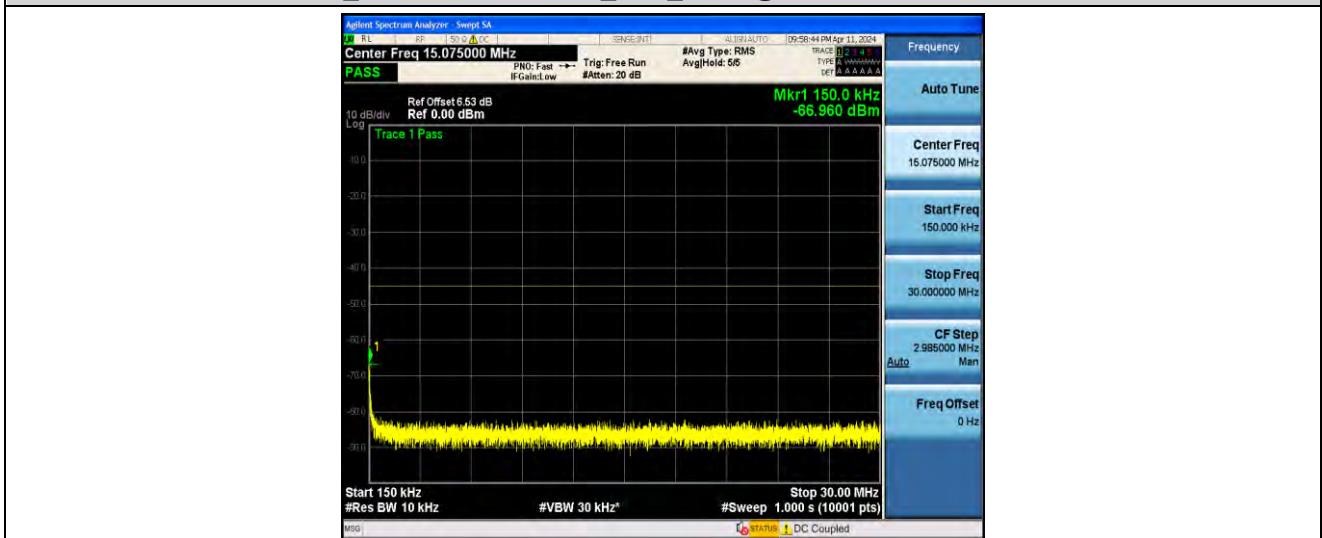


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1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.009-0.15-ANT0-0.01--66.31--55-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-0.15-30-ANT0-0.15--66.96--45-PASS



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1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-30-1000-ANT0-962.56--55.04--35-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-1000-3000-ANT0-2659.50--40.25--25-PASS



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1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-3000-12000-ANT0-5426.85--46.86--25-PASS



1-N7-PC3-15-40-H-1-NS_01-DFT-QPSK-Inner_1RB_Left-1@1-12000-20000-ANT0-18783.60--44.07--25-PA

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Field Strength of Spurious Radiation

Test Band = n7 ANT0_TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.0000	44.43	31.41	-47.19	-66.61	-25.00	41.61	Horizontal
2	7503.0000	42.27	36.40	-45.08	-61.67	-25.00	36.67	Horizontal
3	10004.0000	38.66	38.40	-41.26	-59.46	-25.00	34.46	Horizontal
4	12505.0000	36.94	39.75	-38.86	-57.43	-25.00	32.43	Horizontal
5	15006.0000	35.71	41.58	-37.35	-55.32	-25.00	30.32	Horizontal
6	17507.0000	33.55	44.29	-35.75	-53.17	-25.00	28.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.0000	43.90	31.41	-47.19	-67.14	-25.00	42.14	Vertical
2	7503.0000	42.41	36.40	-45.08	-61.53	-25.00	36.53	Vertical
3	10004.0000	38.49	38.40	-41.26	-59.63	-25.00	34.63	Vertical
4	12505.0000	36.88	39.75	-38.86	-57.49	-25.00	32.49	Vertical
5	15006.0000	35.85	41.58	-37.35	-55.18	-25.00	30.18	Vertical
6	17507.0000	33.83	44.29	-35.75	-52.89	-25.00	27.89	Vertical



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Test Band = n7 ANT0_TM1
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5052.0000	43.72	31.52	-47.13	-67.15	-25.00	42.15	Horizontal
2	7578.0000	42.67	36.37	-44.73	-60.95	-25.00	35.95	Horizontal
3	10104.0000	37.40	38.53	-40.80	-60.13	-25.00	35.13	Horizontal
4	12630.0000	36.99	39.74	-38.63	-57.16	-25.00	32.16	Horizontal
5	15156.0000	35.25	41.07	-36.90	-55.84	-25.00	30.84	Horizontal
6	17682.0000	34.06	45.22	-36.39	-52.37	-25.00	27.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5052.0000	43.24	31.52	-47.13	-67.63	-25.00	42.63	Vertical
2	7578.0000	42.48	36.37	-44.73	-61.14	-25.00	36.14	Vertical
3	10104.0000	37.25	38.53	-40.80	-60.28	-25.00	35.28	Vertical
4	12630.0000	36.22	39.74	-38.63	-57.93	-25.00	32.93	Vertical
5	15156.0000	35.95	41.07	-36.90	-55.14	-25.00	30.14	Vertical
6	17682.0000	34.30	45.22	-36.39	-52.13	-25.00	27.13	Vertical



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Test Band = n7 ANT0_TM1
Test Channel = high

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3685.8274	45.18	29.00	-47.48	-68.56	-25.00	43.56	Horizontal
2	5102.0000	44.11	31.65	-47.07	-66.57	-25.00	41.57	Horizontal
3	7653.0000	42.48	36.34	-44.31	-60.75	-25.00	35.75	Horizontal
4	10204.0000	37.76	38.65	-41.20	-60.05	-25.00	35.05	Horizontal
5	12755.0000	34.86	39.72	-38.54	-59.22	-25.00	34.22	Horizontal
6	15306.0000	35.16	40.56	-36.57	-56.11	-25.00	31.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3663.0265	44.93	28.96	-47.47	-68.84	-25.00	43.84	Vertical
2	5102.0000	43.73	31.65	-47.07	-66.95	-25.00	41.95	Vertical
3	7653.0000	42.21	36.34	-44.31	-61.02	-25.00	36.02	Vertical
4	10204.0000	37.28	38.65	-41.20	-60.53	-25.00	35.53	Vertical
5	12755.0000	34.78	39.72	-38.54	-59.30	-25.00	34.30	Vertical
6	15306.0000	34.73	40.56	-36.57	-56.54	-25.00	31.54	Vertical



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Test Band = 4A_n7A_TM1
Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5001.08	60.30	31.40	-47.19	-50.75	-25.00	25.75	Horizontal
2	7503.0000	43.37	36.40	-45.08	-60.57	-25.00	35.57	Horizontal
3	10004.0000	40.07	38.40	-41.26	-58.05	-25.00	33.05	Horizontal
4	12505.0000	36.97	39.75	-38.86	-57.40	-25.00	32.40	Horizontal
5	15006.0000	36.03	41.58	-37.35	-55.00	-25.00	30.00	Horizontal
6	17507.0000	34.39	44.29	-35.75	-52.33	-25.00	27.33	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5001.08	50.10	31.40	-47.19	-60.95	-25.00	35.95	Vertical
2	7503.0000	43.13	36.40	-45.08	-60.81	-25.00	35.81	Vertical
3	10004.0000	39.50	38.40	-41.26	-58.62	-25.00	33.62	Vertical
4	12505.0000	37.41	39.75	-38.86	-56.96	-25.00	31.96	Vertical
5	15006.0000	35.82	41.58	-37.35	-55.21	-25.00	30.21	Vertical
6	17507.0000	33.98	44.29	-35.75	-52.74	-25.00	27.74	Vertical



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Test Band = 4A_n7A_TM1
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5052.0000	49.53	31.52	-47.13	-61.34	-25.00	36.34	Horizontal
2	7578.0000	43.47	36.37	-44.73	-60.15	-25.00	35.15	Horizontal
3	10104.0000	38.90	38.53	-40.80	-58.63	-25.00	33.63	Horizontal
4	12630.0000	37.25	39.74	-38.63	-56.90	-25.00	31.90	Horizontal
5	15156.0000	36.22	41.07	-36.90	-54.87	-25.00	29.87	Horizontal
6	17682.0000	35.19	45.22	-36.39	-51.24	-25.00	26.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5052.0000	45.02	31.52	-47.13	-65.85	-25.00	40.85	Vertical
2	7578.0000	43.05	36.37	-44.73	-60.57	-25.00	35.57	Vertical
3	10104.0000	38.13	38.53	-40.80	-59.40	-25.00	34.40	Vertical
4	12630.0000	37.27	39.74	-38.63	-56.88	-25.00	31.88	Vertical
5	15156.0000	36.12	41.07	-36.90	-54.97	-25.00	29.97	Vertical
6	17682.0000	34.67	45.22	-36.39	-51.76	-25.00	26.76	Vertical



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Test Band = 4A_n7A_TM1
Test Channel = high

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3675.627	45.89	28.98	-47.47	-67.86	-25.00	42.86	Horizontal
2	5101.2841	53.17	31.64	-47.07	-57.52	-25.00	32.52	Horizontal
3	7653.0000	42.89	36.34	-44.31	-60.34	-25.00	35.34	Horizontal
4	10204.0000	38.21	38.65	-41.20	-59.60	-25.00	34.60	Horizontal
5	12755.0000	35.98	39.72	-38.54	-58.10	-25.00	33.10	Horizontal
6	15306.0000	36.08	40.56	-36.57	-55.19	-25.00	30.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3608.4243	45.67	28.87	-47.45	-68.17	-25.00	43.17	Vertical
2	5101.2841	50.55	31.64	-47.07	-60.14	-25.00	35.14	Vertical
3	7653.0000	42.63	36.34	-44.31	-60.60	-25.00	35.60	Vertical
4	10204.0000	37.96	38.65	-41.20	-59.85	-25.00	34.85	Vertical
5	12755.0000	35.70	39.72	-38.54	-58.38	-25.00	33.38	Vertical
6	15306.0000	35.99	40.56	-36.57	-55.28	-25.00	30.28	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

2) All antennas of RSE are tested, and only the worst data is presented.



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-QPSK	M	216@0	VH	NT	2.50	0.00	PASS
N7	15	40	DFT-QPSK	M	216@0	VN	NT	-7.40	0.00	PASS
N7	15	40	DFT-QPSK	M	216@0	VL	NT	-5.70	0.00	PASS
N7	15	40	CP-QPSK	M	216@0	VH	NT	-5.00	0.00	PASS
N7	15	40	CP-QPSK	M	216@0	VN	NT	-8.00	0.00	PASS
N7	15	40	CP-QPSK	M	216@0	VL	NT	-6.30	0.00	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature(°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-QPSK	M	216@0	NV	50	-7.200000	-0.002840	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	-20	-6.700000	-0.002643	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	-10	6.500000	0.002564	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	0	-8.000000	-0.003156	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	10	-7.300000	-0.002880	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	20	-4.100000	-0.001617	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	30	-3.100000	-0.001223	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	-30	-9.700000	-0.003826	PASS
N7	15	40	DFT-QPSK	M	216@0	NV	40	-7.100000	-0.002801	PASS
N7	15	40	CP-QPSK	M	216@0	NV	50	-5.100000	-0.002012	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-20	-6.700000	-0.002643	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-10	-5.000000	-0.001972	PASS
N7	15	40	CP-QPSK	M	216@0	NV	0	-7.500000	-0.002959	PASS
N7	15	40	CP-QPSK	M	216@0	NV	10	-8.500000	-0.003353	PASS
N7	15	40	CP-QPSK	M	216@0	NV	20	-9.100000	-0.003590	PASS
N7	15	40	CP-QPSK	M	216@0	NV	30	-7.600000	-0.002998	PASS
N7	15	40	CP-QPSK	M	216@0	NV	40	-5.500000	-0.002170	PASS
N7	15	40	CP-QPSK	M	216@0	NV	-30	-5.100000	-0.002012	PASS

---End of Attachment---



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