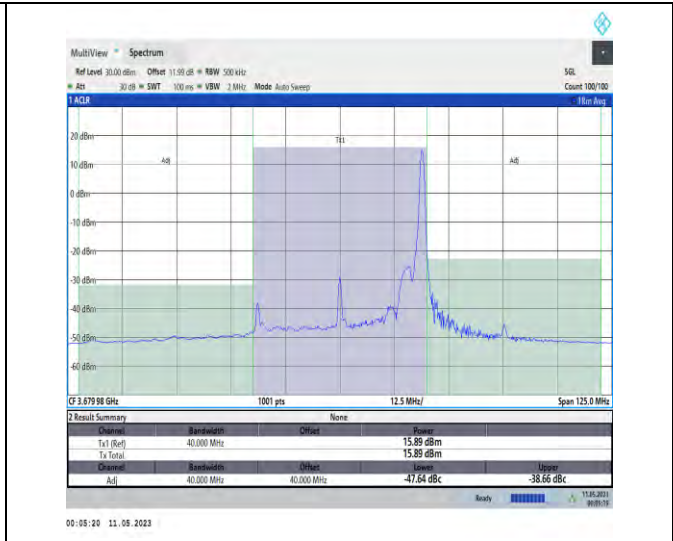
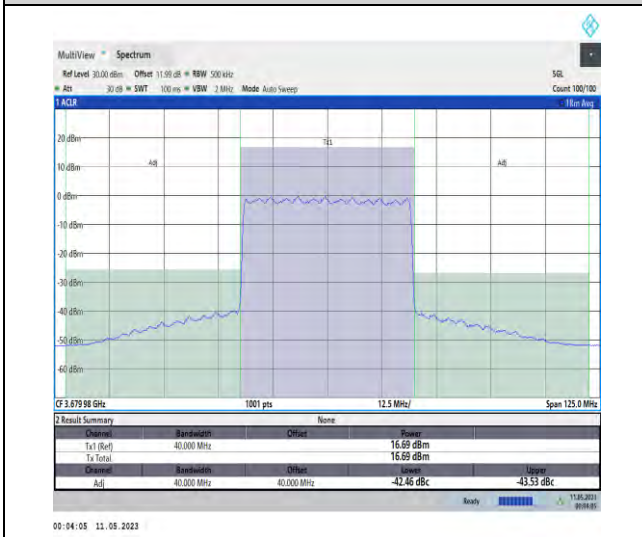




1-N48-PC3-30-40-H-CP-QPSK-Edge_1RB_Left-1@
0-Ant1-1--PASS-see graph



1-N48-PC3-30-40-H-CP-QPSK-Edge_1RB_Left-1@
05-Ant1-1--PASS



1-N48-PC3-30-40-H-CP-QPSK-Outer_Full-106@0-
Ant1-1--PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 48 40MHz_3550M-3700M_ 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	9432.9792	38.92	-37.80	38.56	-55.58	-40.00	15.58	185	0	Horizontal
2	12696.1042	36.03	-35.35	39.30	-55.28	-40.00	15.28	265	357	Horizontal
3	7104.18	40.72	-42.23	36.26	-60.50	-40.00	20.50	241	105	Horizontal
4	10656.27	33.46	-36.01	39.22	-58.59	-40.00	18.59	142	1	Horizontal
5	14208.36	33.07	-34.88	39.99	-57.08	-40.00	17.08	263	15	Horizontal
6	17760.45	30.28	-30.95	41.64	-54.28	-40.00	14.28	228	86	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	8704.1667	39.39	-39.24	38.27	-56.83	-40.00	16.83	296	344	Vertical
2	12702.8125	35.70	-35.37	39.30	-55.63	-40.00	15.63	265	6	Vertical
3	14204.0417	36.99	-34.87	40.00	-53.15	-40.00	13.15	241	344	Vertical
4	7104.18	40.03	-42.23	36.26	-61.19	-40.00	21.19	142	0	Vertical
5	10656.27	33.15	-36.01	39.22	-58.90	-40.00	18.90	255	15	Vertical
6	17760.45	30.66	-30.95	41.64	-53.90	-40.00	13.90	287	22	Vertical



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Test Band = SA Band 48_40MHz_3550M-3700M_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	8914.0417	38.04	-38.91	38.51	-57.62	-40.00	17.62	296	0	Horizontal
2	12718.625	35.43	-35.30	39.32	-55.82	-40.00	15.82	265	83	Horizontal
3	16841.8542	34.45	-32.39	38.49	-54.71	-40.00	14.71	284	221	Horizontal
4	7232.18	39.65	-42.00	36.34	-61.27	-40.00	21.27	142	357	Horizontal
5	10848.27	34.18	-35.61	39.43	-57.26	-40.00	17.26	263	119	Horizontal
6	14464.36	32.32	-35.01	39.74	-58.21	-40.00	18.21	228	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	8950.9375	38.43	-38.80	38.55	-57.08	-40.00	17.08	196	121	Vertical
2	12102.4167	34.88	-35.09	38.70	-56.77	-40.00	16.77	265	304	Vertical
3	17329.6458	33.06	-31.77	39.92	-54.05	-40.00	14.05	284	47	Vertical
4	7232.18	39.81	-42.00	36.34	-61.11	-40.00	21.11	142	158	Vertical
5	10848.27	34.10	-35.61	39.43	-57.34	-40.00	17.34	263	0	Vertical
6	14464.36	32.23	-35.01	39.74	-58.30	-40.00	18.30	228	46	Vertical



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Test Band = SA Band 48_40MHz_3550M-3700M_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	8923.1458	38.82	-38.88	38.52	-56.81	-40.00	16.81	185	357	Horizontal
2	13070.3333	34.80	-34.69	39.64	-55.51	-40.00	15.51	265	4	Horizontal
3	17196.9167	32.86	-32.00	39.39	-55.01	-40.00	15.01	241	270	Horizontal
4	7324.18	37.49	-41.79	36.39	-63.17	-40.00	23.17	142	45	Horizontal
5	10986.27	32.39	-35.66	39.59	-58.95	-40.00	18.95	254	270	Horizontal
6	14648.36	30.79	-34.25	39.55	-59.17	-40.00	19.17	142	192	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	7322.25	42.42	-41.79	36.39	-58.23	-40.00	18.23	196	0	Vertical
2	9432.9792	37.44	-37.80	38.56	-57.06	-40.00	17.06	265	0	Vertical
3	12694.1875	35.30	-35.33	39.29	-56.00	-40.00	16.00	284	0	Vertical
4	17289.875	32.59	-31.79	39.76	-54.70	-40.00	14.70	142	192	Vertical
5	10986.27	32.94	-35.66	39.59	-58.40	-40.00	18.40	263	105	Vertical
6	14648.36	30.35	-34.25	39.55	-59.61	-40.00	19.61	228	192	Vertical



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Test Band = NSA DC_2A_n48 3550M-3700M_ 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	8700.3333	37.75	-39.25	38.27	-58.49	-40.00	18.49	296	0	Horizontal
2	12100.0208	34.70	-35.09	38.70	-56.95	-40.00	16.95	265	50	Horizontal
3	7104.18	39.51	-42.23	36.26	-61.71	-40.00	21.71	284	50	Horizontal
4	10656.27	31.52	-36.01	39.22	-60.53	-40.00	20.53	142	1	Horizontal
5	14208.36	33.57	-34.88	39.99	-56.58	-40.00	16.58	263	29	Horizontal
6	17760.45	30.63	-30.95	41.64	-53.93	-40.00	13.93	225	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	8657.6875	37.74	-39.42	38.22	-58.71	-40.00	18.71	196	323	Vertical
2	12708.5625	35.04	-35.34	39.31	-56.26	-40.00	16.26	265	63	Vertical
3	7104.18	38.64	-42.23	36.26	-62.58	-40.00	22.58	274	157	Vertical
4	10656.27	32.80	-36.01	39.22	-59.25	-40.00	19.25	142	193	Vertical
5	14208.36	32.09	-34.88	39.99	-58.06	-40.00	18.06	263	0	Vertical
6	17760.45	29.76	-30.95	41.64	-54.80	-40.00	14.80	228	11	Vertical



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Test Band = NSA DC_2A_n48 3550M-3700M_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	8949.5	38.11	-38.80	38.54	-57.41	-40.00	17.41	285	120	Horizontal
2	12725.8125	35.10	-35.27	39.33	-56.11	-40.00	16.11	241	120	Horizontal
3	17331.0833	33.08	-31.77	39.92	-54.03	-40.00	14.03	142	343	Horizontal
4	7232.18	39.39	-42.00	36.34	-61.53	-40.00	21.53	263	1	Horizontal
5	10848.27	34.48	-35.61	39.43	-56.96	-40.00	16.96	225	0	Horizontal
6	14464.36	31.82	-35.01	39.74	-58.71	-40.00	18.71	142	5	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	8944.7083	38.53	-38.82	38.54	-57.01	-40.00	17.01	196	251	Vertical
2	13579.6875	34.13	-34.32	39.95	-55.50	-40.00	15.50	265	84	Vertical
3	17056.0417	33.78	-32.19	38.82	-54.85	-40.00	14.85	284	0	Vertical
4	7232.18	39.68	-42.00	36.34	-61.24	-40.00	21.24	142	46	Vertical
5	10848.27	34.04	-35.61	39.43	-57.40	-40.00	17.40	263	341	Vertical
6	14464.36	32.13	-35.01	39.74	-58.40	-40.00	18.40	228	357	Vertical



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Test Band = NSA DC_2A_n48 3550M-3700M_ 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	8938	38.11	-38.84	38.53	-57.45	-40.00	17.45	185	192	Horizontal
2	12958.2083	34.47	-34.91	39.56	-56.14	-40.00	16.14	265	308	Horizontal
3	17286.5208	32.51	-31.80	39.75	-54.80	-40.00	14.80	241	13	Horizontal
4	7324.18	37.95	-41.79	36.39	-62.71	-40.00	22.71	142	0	Horizontal
5	10986.27	32.90	-35.66	39.59	-58.44	-40.00	18.44	263	104	Horizontal
6	14648.36	30.20	-34.25	39.55	-59.76	-40.00	19.76	228	0	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	8947.5833	38.12	-38.81	38.54	-57.40	-40.00	17.40	196	0	Vertical
2	13209.7708	34.55	-34.76	39.73	-55.74	-40.00	15.74	265	1	Vertical
3	17647.8125	32.64	-31.49	41.19	-52.92	-40.00	12.92	284	104	Vertical
4	7324.18	38.25	-41.79	36.39	-62.41	-40.00	22.41	142	0	Vertical
5	10986.27	32.94	-35.66	39.59	-58.40	-40.00	18.40	263	15	Vertical
6	14648.36	29.89	-34.25	39.55	-60.07	-40.00	20.07	228	139	Vertical



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Test Band = NSA DC_66A_n48 3550M-3700M_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	8940.3958	37.95	-38.83	38.53	-57.60	-40.00	17.60	254	288	Horizontal
2	12487.6667	34.42	-35.29	39.09	-57.04	-40.00	17.04	142	100	Horizontal
3	7104.18	39.70	-42.23	36.26	-61.52	-40.00	21.52	265	119	Horizontal
4	10656.27	32.40	-36.01	39.22	-59.65	-40.00	19.65	295	119	Horizontal
5	14208.36	32.89	-34.88	39.99	-57.26	-40.00	17.26	284	63	Horizontal
6	17760.45	29.52	-30.95	41.64	-55.04	-40.00	15.04	142	119	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	8919.7917	38.65	-38.89	38.51	-56.99	-40.00	16.99	196	12	Vertical
2	16195.9375	32.95	-32.04	38.04	-56.31	-40.00	16.31	265	306	Vertical
3	7104.18	39.62	-42.23	36.26	-61.60	-40.00	21.60	284	306	Vertical
4	10656.27	32.44	-36.01	39.22	-59.61	-40.00	19.61	142	12	Vertical
5	14208.36	33.44	-34.88	39.99	-56.71	-40.00	16.71	263	0	Vertical
6	17760.45	29.39	-30.95	41.64	-55.17	-40.00	15.17	228	233	Vertical



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Test Band = NSA DC_66A_n48 3550M-3700M_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	8941.8333	38.32	-38.82	38.54	-57.23	-40.00	17.23	284	13	Horizontal
2	12980.7292	34.30	-34.89	39.58	-56.27	-40.00	16.27	142	83	Horizontal
3	17871.5833	32.19	-31.09	42.09	-52.08	-40.00	12.08	263	343	Horizontal
4	7232.18	39.17	-42.00	36.34	-61.75	-40.00	21.75	225	173	Horizontal
5	10848.27	34.14	-35.61	39.43	-57.30	-40.00	17.30	142	357	Horizontal
6	14464.36	31.67	-35.01	39.74	-58.86	-40.00	18.86	289	0	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	8925.5417	38.05	-38.87	38.52	-57.57	-40.00	17.57	196	0	Vertical
2	12706.6458	35.55	-35.35	39.31	-55.76	-40.00	15.76	265	96	Vertical
3	17326.2917	32.24	-31.77	39.91	-54.89	-40.00	14.89	284	303	Vertical
4	7232.18	39.19	-42.00	36.34	-61.73	-40.00	21.73	142	134	Vertical
5	10848.27	33.88	-35.61	39.43	-57.56	-40.00	17.56	263	40	Vertical
6	14464.36	31.43	-35.01	39.74	-59.10	-40.00	19.10	228	59	Vertical



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Test Band = NSA DC_66A_n48 3550M-3700M_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	9431.5417	37.92	-37.79	38.56	-56.58	-40.00	16.58	296	14	Horizontal
2	13626.1667	34.62	-34.54	39.98	-55.20	-40.00	15.20	265	65	Horizontal
3	16968.3542	33.15	-31.80	38.58	-55.33	-40.00	15.33	284	1	Horizontal
4	7324.18	37.48	-41.79	36.39	-63.18	-40.00	23.18	142	65	Horizontal
5	10986.27	32.29	-35.66	39.59	-59.05	-40.00	19.05	263	357	Horizontal
6	14648.36	29.89	-34.25	39.55	-60.07	-40.00	20.07	228	156	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	9329.4792	37.61	-38.17	38.57	-57.25	-40.00	17.25	196	343	Vertical
2	12961.5625	34.87	-34.91	39.56	-55.74	-40.00	15.74	265	139	Vertical
3	17329.6458	32.60	-31.77	39.92	-54.51	-40.00	14.51	284	121	Vertical
4	7324.18	37.87	-41.79	36.39	-62.79	-40.00	22.79	142	307	Vertical
5	10986.27	32.32	-35.66	39.59	-59.02	-40.00	19.02	265	4	Vertical
6	14648.36	29.69	-34.25	39.55	-60.27	-40.00	20.27	228	13	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
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-8.500000	-0.002345	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-9.100000	-0.002510	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	1.500000	0.000414	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VH	NT	-1.400000	-0.000386	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VN	NT	0.700000	0.000193	PASS
N48	30	40	CP-QPSK	M	Outer_Full	VL	NT	0.900000	0.000248	PASS

Frequency Error VS. Temperature

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.400000	-0.000938	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-7.500000	-0.002069	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.200000	-0.001710	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.000000	-0.001103	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.400000	-0.002041	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	20	3.200000	0.000883	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	30	0.200000	0.000055	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.200000	-0.001434	PASS
N48	30	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.000000	-0.000828	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-30	-9.900000	-0.002731	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-20	-9.900000	-0.002731	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	-10	-14.800000	-0.004083	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	0	-13.800000	-0.003807	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	10	-9.400000	-0.002593	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	20	-8.500000	-0.002345	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	30	-4.400000	-0.001214	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	40	-0.800000	-0.000221	PASS
N48	30	40	CP-QPSK	M	Outer_Full	NV	50	-4.200000	-0.001159	PASS

---End of Attachment---



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