

Test Band = SA Band 41 ANT1_ 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	5096.16	49.16	-44.30	32.60	-57.80	-25.00	32.80	263	11	Horizontal
2	7644.24	47.54	-41.29	36.79	-52.22	-25.00	27.22	254	68	Horizontal
3	10192.32	40.81	-36.57	38.71	-52.30	-25.00	27.30	142	56	Horizontal
4	12740.4	41.90	-35.11	39.34	-49.13	-25.00	24.13	286	3	Horizontal
5	15288.48	42.10	-33.72	38.82	-48.06	-25.00	23.06	295	22	Horizontal
6	17836.56	38.90	-30.90	41.95	-45.31	-25.00	20.31	241	251	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	5096.16	49.01	-44.30	32.60	-57.95	-25.00	32.95	255	307	Vertical
2	7644.24	47.56	-41.29	36.79	-52.20	-25.00	27.20	142	360	Vertical
3	10192.32	41.42	-36.57	38.71	-51.69	-25.00	26.69	263	225	Vertical
4	12740.4	41.23	-35.11	39.34	-49.80	-25.00	24.80	265	78	Vertical
5	15288.48	40.71	-33.72	38.82	-49.45	-25.00	24.45	284	169	Vertical
6	17836.56	38.96	-30.90	41.95	-45.25	-25.00	20.25	142	307	Vertical



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Test Band = SA Band 41 ANT1_ 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	5190.18	50.13	-44.16	32.60	-56.69	-25.00	31.69	296	359	Horizontal
2	7785.27	47.50	-40.71	37.07	-51.40	-25.00	26.40	265	81	Horizontal
3	10380.36	41.31	-36.53	38.92	-51.56	-25.00	26.56	241	194	Horizontal
4	12975.45	41.28	-34.91	39.58	-49.31	-25.00	24.31	142	194	Horizontal
5	15570.54	38.09	-33.96	38.46	-52.67	-25.00	27.67	285	194	Horizontal
6	17899.2857	40.87	-31.06	42.20	-43.25	-25.00	18.25	263	182	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	5190.18	48.71	-44.16	32.60	-58.11	-25.00	33.11	214	261	Vertical
2	7785.27	46.99	-40.71	37.07	-51.91	-25.00	26.91	145	3	Vertical
3	10380.36	41.46	-36.53	38.92	-51.41	-25.00	26.41	268	78	Vertical
4	12975.45	40.72	-34.91	39.58	-49.87	-25.00	24.87	241	193	Vertical
5	15570.54	39.03	-33.96	38.46	-51.73	-25.00	26.73	178	316	Vertical
6	17783.5714	41.03	-30.84	41.73	-43.33	-25.00	18.33	296	348	Vertical



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Test Band = SA Band 41 ANT2_ 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	5002.2	50.32	-44.92	32.60	-57.26	-25.00	32.26	296	283	Horizontal
2	7503.3	46.64	-41.59	36.51	-53.70	-25.00	28.70	265	225	Horizontal
3	10004.4	43.66	-37.13	38.51	-50.23	-25.00	25.23	201	54	Horizontal
4	12505.5	40.63	-35.23	39.11	-50.75	-25.00	25.75	142	271	Horizontal
5	15006.6	39.33	-34.00	39.19	-50.74	-25.00	25.74	145	202	Horizontal
6	17507.7	37.61	-31.88	40.64	-48.89	-25.00	23.89	214	237	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	5002.2	49.16	-44.92	32.60	-58.42	-25.00	33.42	263	315	Vertical
2	7503.3	46.50	-41.59	36.51	-53.84	-25.00	28.84	265	360	Vertical
3	10004.4	43.82	-37.13	38.51	-50.07	-25.00	25.07	241	360	Vertical
4	12505.5	40.24	-35.23	39.11	-51.14	-25.00	26.14	178	113	Vertical
5	15006.6	39.08	-34.00	39.19	-50.99	-25.00	25.99	266	3	Vertical
6	17507.7	38.49	-31.88	40.64	-48.01	-25.00	23.01	296	68	Vertical



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Test Band = SA Band 41 ANT2_ 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	5096.16	50.31	-44.30	32.60	-56.65	-25.00	31.65	251	360	Horizontal
2	7644.24	47.43	-41.29	36.79	-52.33	-25.00	27.33	142	10	Horizontal
3	10192.32	41.13	-36.57	38.71	-51.98	-25.00	26.98	285	44	Horizontal
4	12740.4	40.68	-35.11	39.34	-50.35	-25.00	25.35	256	88	Horizontal
5	15288.48	40.81	-33.72	38.82	-49.35	-25.00	24.35	253	112	Horizontal
6	17836.56	39.40	-30.90	41.95	-44.81	-25.00	19.81	201	78	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	5096.16	49.55	-44.30	32.60	-57.41	-25.00	32.41	265	80	Vertical
2	7644.24	48.27	-41.29	36.79	-51.49	-25.00	26.49	241	359	Vertical
3	10192.32	40.67	-36.57	38.71	-52.44	-25.00	27.44	142	44	Vertical
4	12740.4	41.56	-35.11	39.34	-49.47	-25.00	24.47	255	181	Vertical
5	15288.48	41.42	-33.72	38.82	-48.74	-25.00	23.74	149	359	Vertical
6	17836.56	38.75	-30.90	41.95	-45.46	-25.00	20.46	148	32	Vertical



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Test Band = SA Band 41 ANT2_ 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	5190.18	50.32	-44.16	32.60	-56.50	-25.00	31.50	263	56	Horizontal
2	7785.27	46.47	-40.71	37.07	-52.43	-25.00	27.43	265	240	Horizontal
3	10380.36	42.31	-36.53	38.92	-50.56	-25.00	25.56	241	348	Horizontal
4	12975.45	40.94	-34.91	39.58	-49.65	-25.00	24.65	178	284	Horizontal
5	15570.54	39.20	-33.96	38.46	-51.56	-25.00	26.56	296	318	Horizontal
6	17856.4286	40.64	-30.95	42.03	-43.55	-25.00	18.55	245	77	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	5190.18	49.45	-44.16	32.60	-57.37	-25.00	32.37	263	251	Vertical
2	7785.27	48.32	-40.71	37.07	-50.58	-25.00	25.58	254	169	Vertical
3	10380.36	41.32	-36.53	38.92	-51.55	-25.00	26.55	255	360	Vertical
4	12975.45	41.34	-34.91	39.58	-49.25	-25.00	24.25	201	284	Vertical
5	15570.54	38.74	-33.96	38.46	-52.02	-25.00	27.02	142	320	Vertical
6	17832.8571	40.60	-30.89	41.93	-43.62	-25.00	18.62	265	308	Vertical



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Test Band = SA Band 41 ANT3_ 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	5002.2	49.40	-44.92	32.60	-58.18	-25.00	33.18	263	350	Horizontal
2	7503.3	47.77	-41.59	36.51	-52.57	-25.00	27.57	265	182	Horizontal
3	10004.4	44.34	-37.13	38.51	-49.55	-25.00	24.55	241	350	Horizontal
4	12505.5	42.41	-35.23	39.11	-48.97	-25.00	23.97	122	22	Horizontal
5	15006.6	38.88	-34.00	39.19	-51.19	-25.00	26.19	201	22	Horizontal
6	17507.7	38.13	-31.88	40.64	-48.37	-25.00	23.37	142	113	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	5002.2	49.21	-44.92	32.60	-58.37	-25.00	33.37	201	260	Vertical
2	7503.3	47.01	-41.59	36.51	-53.33	-25.00	28.33	142	114	Vertical
3	10004.4	43.07	-37.13	38.51	-50.82	-25.00	25.82	266	348	Vertical
4	12505.5	40.59	-35.23	39.11	-50.79	-25.00	25.79	265	260	Vertical
5	15006.6	39.33	-34.00	39.19	-50.74	-25.00	25.74	244	56	Vertical
6	17507.7	38.61	-31.88	40.64	-47.89	-25.00	22.89	158	193	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	5096.16	49.32	-44.30	32.60	-57.64	-25.00	32.64	142	136	Horizontal
2	7644.24	47.22	-41.29	36.79	-52.54	-25.00	27.54	263	10	Horizontal
3	10192.32	40.25	-36.57	38.71	-52.86	-25.00	27.86	265	170	Horizontal
4	12740.4	40.71	-35.11	39.34	-50.32	-25.00	25.32	241	285	Horizontal
5	15288.48	41.24	-33.72	38.82	-48.92	-25.00	23.92	142	206	Horizontal
6	17836.56	39.77	-30.90	41.95	-44.44	-25.00	19.44	286	33	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	5096.16	49.39	-44.30	32.60	-57.57	-25.00	32.57	296	240	Vertical
2	7644.24	48.19	-41.29	36.79	-51.57	-25.00	26.57	265	319	Vertical
3	10192.32	40.64	-36.57	38.71	-52.47	-25.00	27.47	241	33	Vertical
4	12740.4	39.85	-35.11	39.34	-51.18	-25.00	26.18	102	358	Vertical
5	15288.48	40.94	-33.72	38.82	-49.22	-25.00	24.22	142	160	Vertical
6	17836.56	38.54	-30.90	41.95	-45.67	-25.00	20.67	263	360	Vertical



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Test Channel = High Channel

Final Data List										
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1	5190.18	49.40	-44.16	32.60	-57.42	-25.00	32.42	263	124	Horizontal
2	7785.27	47.38	-40.71	37.07	-51.52	-25.00	26.52	254	360	Horizontal
3	10380.36	41.80	-36.53	38.92	-51.07	-25.00	26.07	142	193	Horizontal
4	12975.45	41.04	-34.91	39.58	-49.55	-25.00	24.55	258	136	Horizontal
5	15570.54	39.12	-33.96	38.46	-51.64	-25.00	26.64	266	181	Horizontal
6	17865	40.50	-30.97	42.06	-43.67	-25.00	18.67	204	273	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	5190.18	50.58	-44.16	32.60	-56.24	-25.00	31.24	296	145	Vertical
2	7785.27	46.51	-40.71	37.07	-52.39	-25.00	27.39	265	192	Vertical
3	10380.36	43.24	-36.53	38.92	-49.63	-25.00	24.63	241	271	Vertical
4	12975.45	41.52	-34.91	39.58	-49.07	-25.00	24.07	252	316	Vertical
5	15570.54	38.20	-33.96	38.46	-52.56	-25.00	27.56	201	158	Vertical
6	17873.5714	40.77	-30.99	42.09	-43.39	-25.00	18.39	146	213	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
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	0.200000	0.000077	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.400000	-0.001697	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.800000	-0.000309	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	0.200000	0.000077	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	4.400000	0.001697	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-4.600000	-0.001774	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.200000	-0.001234	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-1.000000	-0.000386	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.900000	-0.001504	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-2.700000	-0.001041	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.000000	-0.001157	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-2.500000	-0.000964	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-1.600000	-0.000617	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.800000	-0.000694	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	2.400000	0.000926	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	-5.400000	-0.002083	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	-1.300000	-0.000501	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	-1.600000	-0.000617	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	-2.400000	-0.000926	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	1.600000	0.000617	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	0.300000	0.000116	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	-1.800000	-0.000694	PASS

---End of Attachment---



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