

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band5 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	-0.026	0.005	0.001	0.008	---	---
-20	NV	0.003	0.000	-0.005	0.003	---	---
-10	NV	0.003	0.003	0.001	0.003	---	---
0	NV	0.002	0.003	-0.003	0.001	---	---
+10	NV	-0.026	0.005	0.001	0.008	---	---
+20	NV	0.000	0.000	0.000	0.000	---	---
+30	NV	-0.010	0.004	0.001	0.004	---	---
+40	NV	0.000	0.004	-0.001	0.000	---	---
+50	NV	-0.013	0.000	0.004	0.010	---	---
+20	LV	-0.005	0.005	-0.003	0.002	---	---
+20	HV	0.008	0.000	-0.001	0.002	---	---

Temperature(°C)	Voltage	Test Result (ppm) Band5 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	0.005	0.000	-0.001	0.006	---	---
-20	NV	0.002	0.005	0.000	0.010	---	---
-10	NV	0.001	0.005	0.003	0.001	---	---
0	NV	0.008	0.003	-0.001	0.002	---	---
+10	NV	-0.012	-0.006	0.003	0.005	---	---
+20	NV	0.000	0.000	0.000	0.000	---	---
+30	NV	-0.005	0.006	-0.003	0.008	---	---
+40	NV	0.005	0.000	-0.001	0.006	---	---
+50	NV	0.018	0.007	-0.003	0.010	---	---
+20	LV	0.010	0.007	0.001	0.008	---	---
+20	HV	-0.010	0.005	0.004	0.006	---	---

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	824.7	20407	1.4	1	0	23.66	16.31	0.043
				1	3	23.87	16.52	0.045
				1	5	23.73	16.38	0.043
				3	0	22.77	15.42	0.035
				3	1	22.79	15.44	0.035
				3	3	22.82	15.47	0.035
				6	0	21.88	14.53	0.028
	836.5	20525		1	0	23.72	16.37	0.043
				1	3	23.76	16.41	0.044
				1	5	23.83	16.48	0.044
				3	0	22.77	15.42	0.035
				3	1	22.74	15.39	0.035
				3	3	22.81	15.46	0.035
				6	0	21.87	14.52	0.028
	848.3	20643		1	0	23.54	16.19	0.042
				1	3	23.55	16.20	0.042
				1	5	23.58	16.23	0.042
				3	0	22.57	15.22	0.033
				3	1	22.47	15.12	0.033
				3	3	22.44	15.09	0.032
				6	0	21.65	14.30	0.027
16QAM	824.7	20407	1	0	22.95	15.60	0.036	
			1	3	22.95	15.60	0.036	
			1	5	23.00	15.65	0.037	
			3	0	21.98	14.63	0.029	
			3	1	21.95	14.60	0.029	
			3	3	21.84	14.49	0.028	
			6	0	21.02	13.67	0.023	
	836.5	20525	1	0	22.91	15.56	0.036	
			1	3	22.84	15.49	0.035	
			1	5	22.98	15.63	0.037	
			3	0	21.81	14.46	0.028	
			3	1	21.88	14.53	0.028	
			3	3	21.92	14.57	0.029	
			6	0	20.91	13.56	0.023	
	848.3	20643	1	0	22.83	15.48	0.035	
			1	3	22.71	15.36	0.034	
			1	5	22.74	15.39	0.035	
			3	0	21.73	14.38	0.027	
			3	1	21.85	14.50	0.028	
			3	3	21.89	14.54	0.028	
			6	0	20.60	13.25	0.021	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	824.7	20407	1.4	1	0	21.79	14.44	0.028
				1	3	21.86	14.51	0.028
				1	5	21.92	14.57	0.029
				3	0	20.92	13.57	0.023
				3	1	20.88	13.53	0.023
				3	3	20.71	13.36	0.022
				6	0	19.91	12.56	0.018
	836.5	20525		1	0	22.02	14.67	0.029
				1	3	21.94	14.59	0.029
				1	5	21.92	14.57	0.029
				3	0	20.99	13.64	0.023
				3	1	20.92	13.57	0.023
				3	3	20.92	13.57	0.023
				6	0	19.95	12.60	0.018
	848.3	20643		1	0	21.53	14.18	0.026
				1	3	21.57	14.22	0.026
				1	5	21.60	14.25	0.027
				3	0	20.50	13.15	0.021
				3	1	20.60	13.25	0.021
				3	3	20.60	13.25	0.021
				6	0	19.60	12.25	0.017

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	825.5	20415	3	1	0	23.84	16.49	0.045
				1	8	23.76	16.41	0.044
				1	14	23.83	16.48	0.044
				8	0	22.93	15.58	0.036
				8	4	22.92	15.57	0.036
				8	7	22.82	15.47	0.035
	15	0		21.93	14.58	0.029		
	836.5	20525		1	0	23.90	16.55	0.045
				1	8	23.88	16.53	0.045
				1	14	23.84	16.49	0.045
				8	0	22.89	15.54	0.036
				8	4	22.80	15.45	0.035
				8	7	22.80	15.45	0.035
	15	0		21.94	14.59	0.029		
	847.5	20635		1	0	23.71	16.36	0.043
				1	8	23.62	16.27	0.042
				1	14	23.61	16.26	0.042
				8	0	22.81	15.46	0.035
8			4	22.78	15.43	0.035		
8			7	22.81	15.46	0.035		
15	0	21.80	14.45	0.028				
16QAM	825.5	20415	1	0	23.46	16.11	0.041	
			1	8	23.36	16.01	0.040	
			1	14	23.57	16.22	0.042	
			8	0	22.18	14.83	0.030	
			8	4	22.29	14.94	0.031	
			8	7	21.99	14.64	0.029	
	15	0	20.99	13.64	0.023			
	836.5	20525	1	0	23.53	16.18	0.041	
			1	8	23.42	16.07	0.040	
			1	14	23.63	16.28	0.042	
			8	0	22.23	14.88	0.031	
			8	4	22.35	15.00	0.032	
			8	7	22.12	14.77	0.030	
	15	0	21.00	13.65	0.023			
	847.5	20635	1	0	23.38	16.03	0.040	
			1	8	23.29	15.94	0.039	
			1	14	23.27	15.92	0.039	
			8	0	22.15	14.80	0.030	
8			4	22.14	14.79	0.030		
8			7	21.89	14.54	0.028		
15	0	20.82	13.47	0.022				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	825.5	20415	3	1	0	21.99	14.64	0.029
				1	8	21.98	14.63	0.029
				1	14	21.99	14.64	0.029
				8	0	20.99	13.64	0.023
				8	4	20.99	13.64	0.023
				8	7	20.96	13.61	0.023
				15	0	19.99	12.64	0.018
	836.5	20525		1	0	22.00	14.65	0.029
				1	8	21.99	14.64	0.029
				1	14	21.74	14.39	0.027
				8	0	21.05	13.70	0.023
				8	4	20.91	13.56	0.023
				8	7	21.04	13.69	0.023
				15	0	20.05	12.70	0.019
	847.5	20635		1	0	21.91	14.56	0.029
				1	8	21.81	14.46	0.028
				1	14	21.92	14.57	0.029
				8	0	20.75	13.40	0.022
				8	4	20.81	13.46	0.022
				8	7	20.82	13.47	0.022
				15	0	19.92	12.57	0.018

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)		
QPSK	826.5	20425	5	1	0	23.96	16.61	0.046		
				1	12	23.86	16.51	0.045		
				1	24	23.75	16.40	0.044		
				12	0	22.95	15.60	0.036		
				12	7	22.93	15.58	0.036		
				12	13	22.93	15.58	0.036		
	836.5	20525		25	0	21.94	14.59	0.029		
				1	0	23.92	16.57	0.045		
				1	12	23.83	16.48	0.044		
				1	24	23.72	16.37	0.043		
				12	0	22.91	15.56	0.036		
				12	7	22.86	15.51	0.036		
				12	13	22.87	15.52	0.036		
				25	0	21.85	14.50	0.028		
				846.5	20625	1	0	23.80	16.45	0.044
						1	12	23.54	16.19	0.042
						1	24	23.63	16.28	0.042
						12	0	22.85	15.50	0.035
	12	7				22.71	15.36	0.034		
	12	13				22.84	15.49	0.035		
	16QAM	826.5		20425	25	0	21.74	14.39	0.027	
					1	0	22.83	15.48	0.035	
					1	12	22.84	15.49	0.035	
					1	24	22.98	15.63	0.037	
12			0		21.96	14.61	0.029			
12			7		21.89	14.54	0.028			
836.5		20525	12	13	21.81	14.46	0.028			
			25	0	21.04	13.69	0.023			
			1	0	22.93	15.58	0.036			
			1	12	22.97	15.62	0.036			
			1	24	22.77	15.42	0.035			
			12	0	21.83	14.48	0.028			
			12	7	21.80	14.45	0.028			
			12	13	21.80	14.45	0.028			
			25	0	20.99	13.64	0.023			
			846.5	20625	1	0	22.92	15.57	0.036	
					1	12	22.98	15.63	0.037	
					1	24	22.88	15.53	0.036	
12		0			21.90	14.55	0.029			
12		7			21.82	14.47	0.028			
12		13			21.76	14.41	0.028			
25		0	20.72	13.37	0.022					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
64QAM	826.5	20425	5	1	0	21.98	14.63	0.029	
				1	12	21.96	14.61	0.029	
				1	24	21.95	14.60	0.029	
				12	0	21.00	13.65	0.023	
				12	7	20.95	13.60	0.023	
				12	13	20.92	13.57	0.023	
	836.5	20525		25	0	20.00	12.65	0.018	
				1	0	21.99	14.64	0.029	
				1	12	21.88	14.53	0.028	
				1	24	21.97	14.62	0.029	
				12	0	20.93	13.58	0.023	
				12	7	20.94	13.59	0.023	
	846.5	20625		12	13	21.00	13.65	0.023	
				25	0	19.90	12.55	0.018	
				1	0	21.87	14.52	0.028	
				1	12	21.80	14.45	0.028	
				1	24	21.76	14.41	0.028	
				12	0	20.69	13.34	0.022	
					12	7	20.75	13.40	0.022
					12	13	20.74	13.39	0.022
					25	0	19.75	12.40	0.017

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	829	20450	10	1	0	23.96	16.61	0.046
				1	25	23.90	16.55	0.045
				1	49	23.82	16.47	0.044
				25	0	22.91	15.56	0.036
				25	12	23.00	15.65	0.037
				25	25	22.98	15.63	0.037
	836.5	20525		50	0	22.06	14.71	0.030
				1	0	23.99	16.64	0.046
				1	25	23.91	16.56	0.045
				1	49	23.94	16.59	0.046
				25	0	22.95	15.60	0.036
				25	12	22.95	15.60	0.036
	844	20600		25	25	22.90	15.55	0.036
				50	0	21.97	14.62	0.029
				1	0	23.92	16.57	0.045
				1	25	23.68	16.33	0.043
				1	49	23.70	16.35	0.043
				25	0	22.92	15.57	0.036
16QAM	829	20450	25	12	22.88	15.53	0.036	
			25	25	22.83	15.48	0.035	
			50	0	21.94	14.59	0.029	
			1	0	22.62	15.27	0.034	
			1	25	22.45	15.10	0.032	
			1	49	22.38	15.03	0.032	
	836.5	20525	25	0	21.41	14.06	0.025	
			25	12	21.51	14.16	0.026	
			25	25	21.43	14.08	0.026	
			50	0	20.69	13.34	0.022	
			1	0	22.84	15.49	0.035	
			1	25	22.89	15.54	0.036	
	844	20600	1	49	22.75	15.40	0.035	
			25	0	21.92	14.57	0.029	
			25	12	21.94	14.59	0.029	
			25	25	21.91	14.56	0.029	
			50	0	20.96	13.61	0.023	
			1	0	23.00	15.65	0.037	
			1	25	22.75	15.40	0.035	
			1	49	22.92	15.57	0.036	
			25	0	21.96	14.61	0.029	
			25	12	21.85	14.50	0.028	
			25	25	21.88	14.53	0.028	
			50	0	20.97	13.62	0.023	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
64QAM	829	20450	10	1	0	21.99	14.64	0.029	
				1	25	21.98	14.63	0.029	
				1	49	21.98	14.63	0.029	
				25	0	20.99	13.64	0.023	
				25	12	20.99	13.64	0.023	
				25	25	20.99	13.64	0.023	
	836.5	20525		50	0	19.98	12.63	0.018	
				1	0	21.96	14.61	0.029	
				1	25	21.96	14.61	0.029	
				1	49	21.96	14.61	0.029	
				25	0	21.03	13.68	0.023	
				25	12	20.95	13.60	0.023	
	844	20600		25	25	20.95	13.60	0.023	
				50	0	20.02	12.67	0.018	
				1	0	21.83	14.48	0.028	
				1	25	21.89	14.54	0.028	
				1	49	21.89	14.54	0.028	
				25	0	20.85	13.50	0.022	
					25	12	20.87	13.52	0.022
					25	25	20.92	13.57	0.023
					50	0	19.89	12.54	0.018