

Test Mode: QPSK

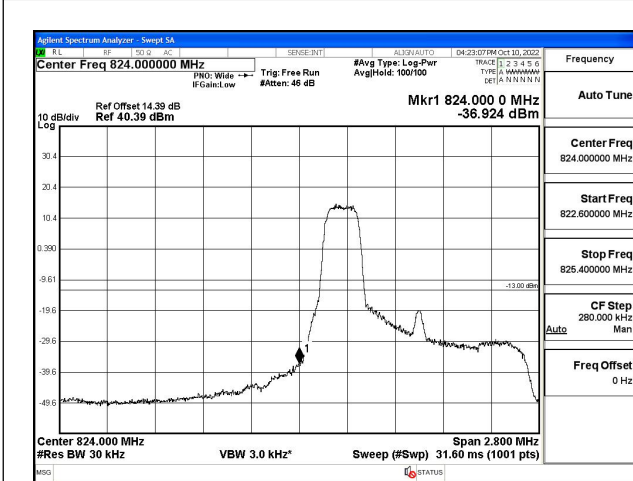


Fig.1

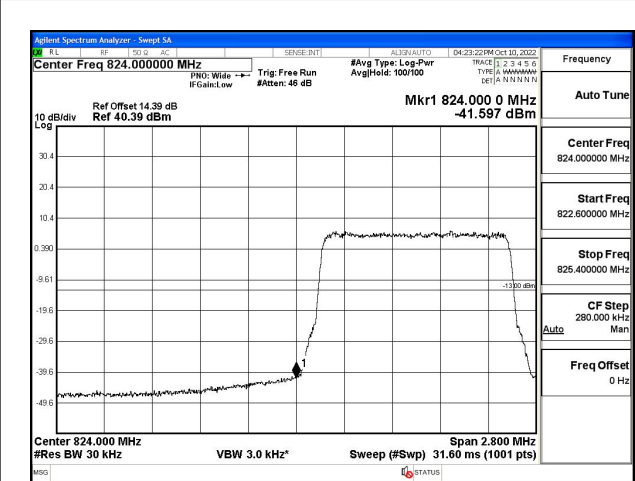


Fig.2

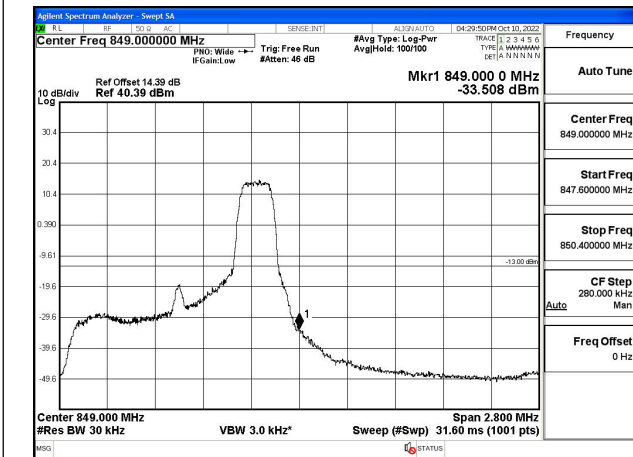


Fig.3

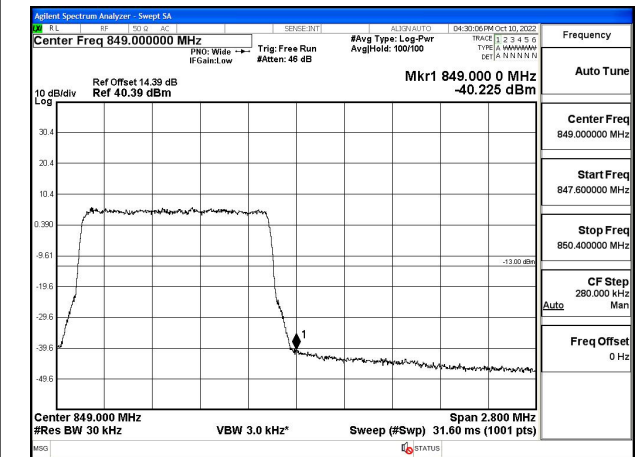


Fig.4

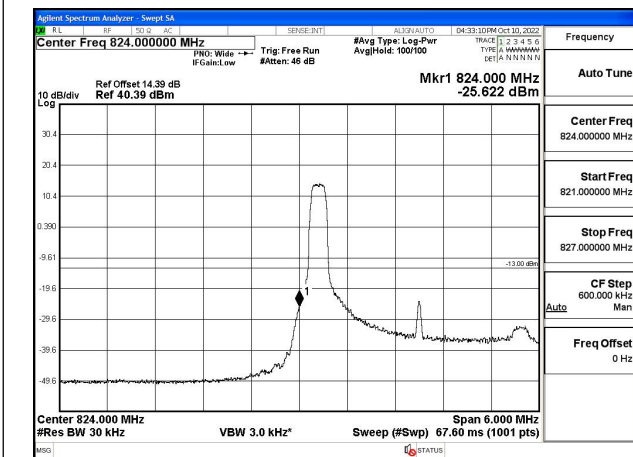


Fig.5

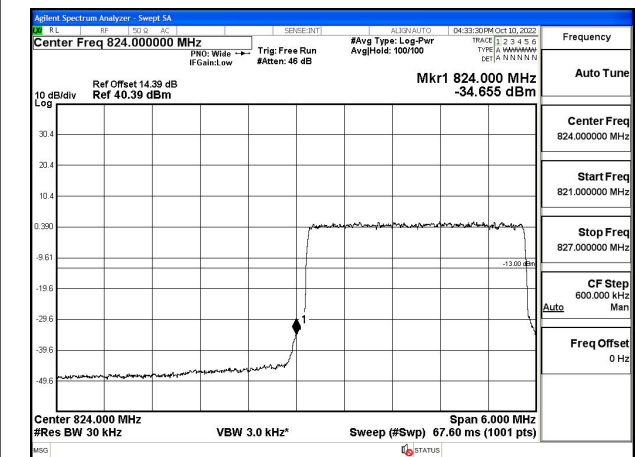


Fig.6

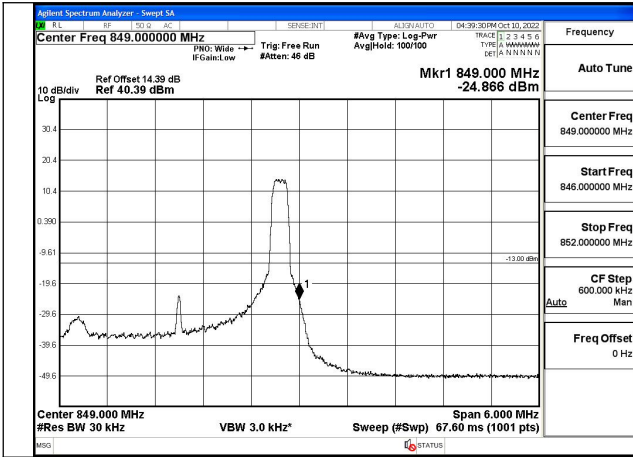


Fig.7

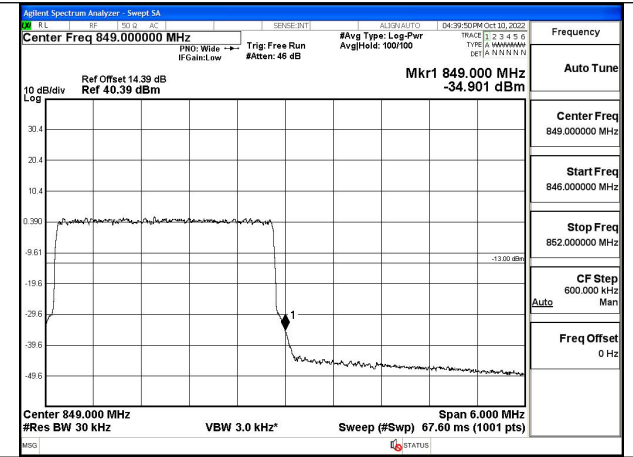


Fig.8

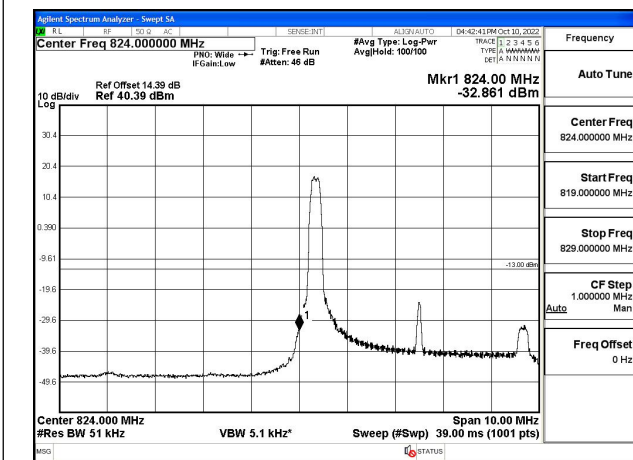


Fig.9

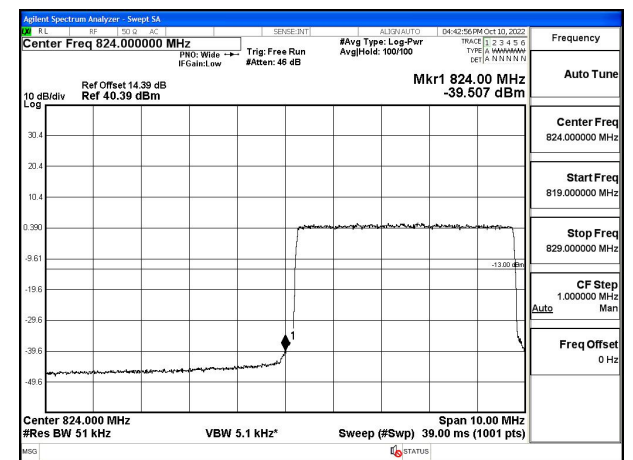


Fig.10

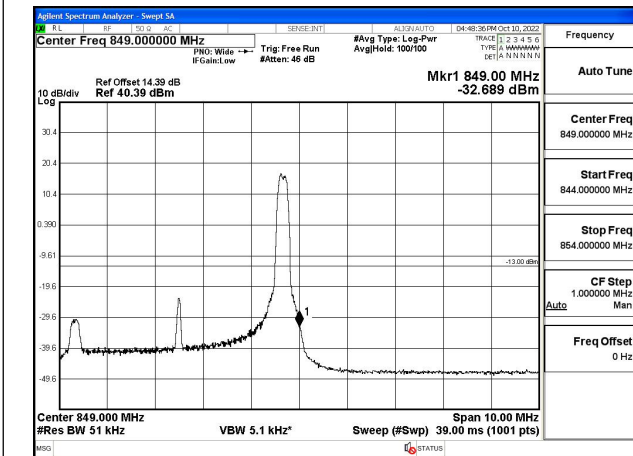


Fig.11

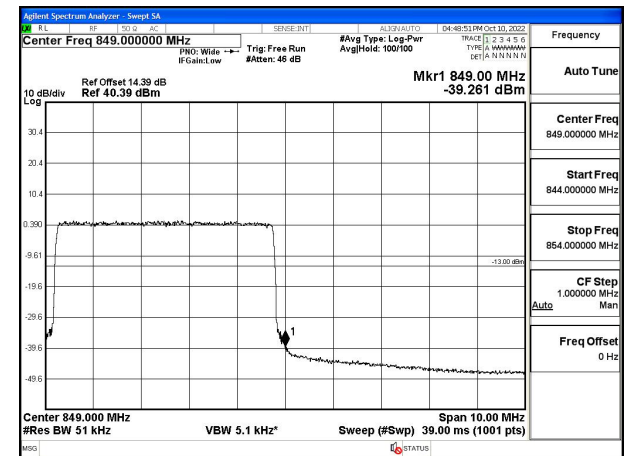


Fig.12

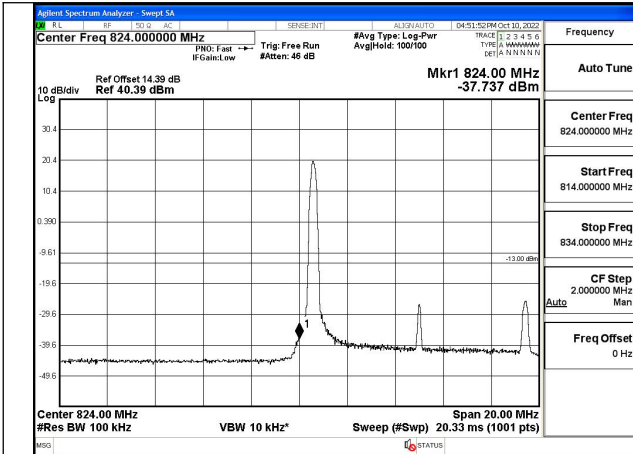


Fig.13

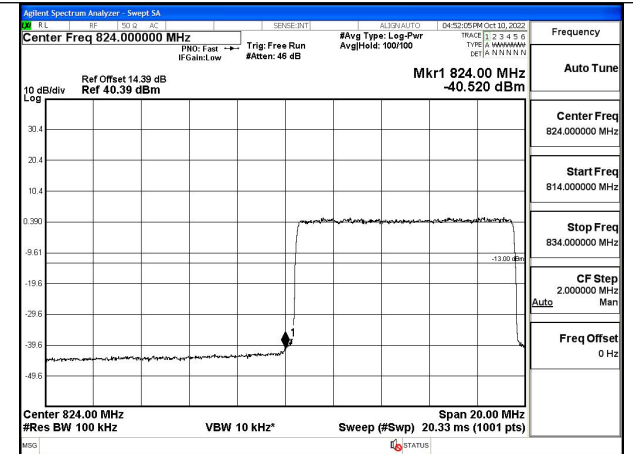


Fig.14

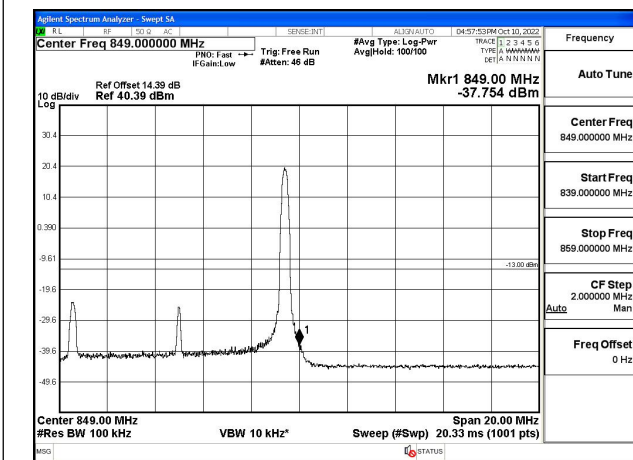


Fig.15

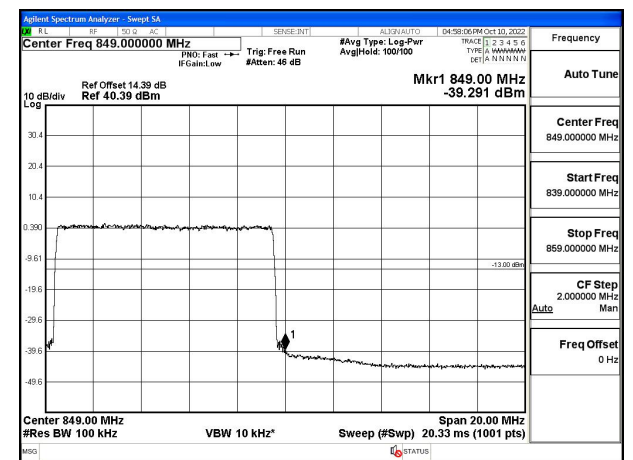


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 5 Low Channel QPSK			
		1.4M	3M	5M	10M
-20	NV	-0.011	0.006	-0.005	0.003
-10	NV	0.001	0.006	0.003	0.005
0	NV	0.006	0.005	0.004	0.004
+10	NV	-0.002	-0.004	0.002	0.006
+20	NV	0.004	-0.002	-0.002	0.006
+30	NV	-0.004	-0.003	0.001	0.003
+40	NV	0.009	0.004	0.005	-0.001
+50	NV	-0.006	0.004	0.005	0.006
+60	NV	-0.002	0.002	-0.002	-0.003
+20	LV	0.007	0.004	0.005	0.005
+20	HV	0.012	-0.005	-0.006	-0.002

Temperature(°C)	Voltage	Test Result (ppm) Band 5 High Channel QPSK			
		1.4M	3M	5M	10M
-20	NV	0.008	0.008	-0.014	-0.006
-10	NV	-0.007	0.006	-0.005	-0.006
0	NV	-0.005	0.009	-0.008	-0.005
+10	NV	-0.008	0.009	-0.010	-0.005
+20	NV	0.003	0.010	-0.003	-0.005
+30	NV	0.003	0.006	-0.003	-0.003
+40	NV	0.002	-0.005	-0.007	-0.004
+50	NV	0.004	-0.011	0.005	-0.010
+60	NV	0.002	0.002	-0.004	-0.012
+20	LV	0.002	-0.010	-0.007	0.003
+20	HV	0.001	-0.016	-0.011	-0.002

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	824.7	20407	1.4	1	0	22.91	19.03	0.080
QPSK	824.7	20407	1.4	1	3	22.94	19.06	0.081
QPSK	824.7	20407	1.4	1	5	23.06	19.18	0.083
QPSK	824.7	20407	1.4	3	0	23.23	19.35	0.086
QPSK	824.7	20407	1.4	3	1	23.27	19.39	0.087
QPSK	824.7	20407	1.4	3	3	23.18	19.30	0.085
QPSK	824.7	20407	1.4	6	0	22.36	18.48	0.070
QPSK	836.5	20525	1.4	1	0	23.51	19.63	0.092
QPSK	836.5	20525	1.4	1	3	23.57	19.69	0.093
QPSK	836.5	20525	1.4	1	5	23.35	19.47	0.089
QPSK	836.5	20525	1.4	3	0	23.32	19.44	0.088
QPSK	836.5	20525	1.4	3	1	23.36	19.48	0.089
QPSK	836.5	20525	1.4	3	3	23.33	19.45	0.088
QPSK	836.5	20525	1.4	6	0	22.35	18.47	0.070
QPSK	848.3	20643	1.4	1	0	22.83	18.95	0.079
QPSK	848.3	20643	1.4	1	3	23.25	19.37	0.086
QPSK	848.3	20643	1.4	1	5	23.08	19.20	0.083
QPSK	848.3	20643	1.4	3	0	23.09	19.21	0.083
QPSK	848.3	20643	1.4	3	1	23.30	19.42	0.087
QPSK	848.3	20643	1.4	3	3	23.18	19.30	0.085
QPSK	848.3	20643	1.4	6	0	22.34	18.46	0.070

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	824.7	20407	1.4	1	0	23.02	19.14	0.082
16QAM	824.7	20407	1.4	1	3	23.11	19.23	0.084
16QAM	824.7	20407	1.4	1	5	22.48	18.60	0.072
16QAM	824.7	20407	1.4	3	0	22.66	18.78	0.076
16QAM	824.7	20407	1.4	3	1	22.77	18.89	0.077
16QAM	824.7	20407	1.4	3	3	22.67	18.79	0.076
16QAM	824.7	20407	1.4	6	0	20.89	17.01	0.050
16QAM	836.5	20525	1.4	1	0	22.99	19.11	0.081
16QAM	836.5	20525	1.4	1	3	22.81	18.93	0.078
16QAM	836.5	20525	1.4	1	5	22.50	18.62	0.073
16QAM	836.5	20525	1.4	3	0	22.77	18.89	0.077
16QAM	836.5	20525	1.4	3	1	22.55	18.67	0.074
16QAM	836.5	20525	1.4	3	3	22.55	18.67	0.074
16QAM	836.5	20525	1.4	6	0	21.04	17.16	0.052
16QAM	848.3	20643	1.4	1	0	22.33	18.45	0.070
16QAM	848.3	20643	1.4	1	3	22.47	18.59	0.072
16QAM	848.3	20643	1.4	1	5	22.37	18.49	0.071
16QAM	848.3	20643	1.4	3	0	22.17	18.29	0.067
16QAM	848.3	20643	1.4	3	1	22.54	18.66	0.073
16QAM	848.3	20643	1.4	3	3	22.33	18.45	0.070
16QAM	848.3	20643	1.4	6	0	20.81	16.93	0.049

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	825.5	20415	3	1	0	23.53	19.65	0.092
QPSK	825.5	20415	3	1	8	23.52	19.64	0.092
QPSK	825.5	20415	3	1	14	23.48	19.60	0.091
QPSK	825.5	20415	3	8	0	22.34	18.46	0.070
QPSK	825.5	20415	3	8	4	22.43	18.55	0.072
QPSK	825.5	20415	3	8	7	22.40	18.52	0.071
QPSK	825.5	20415	3	15	0	22.40	18.52	0.071
QPSK	836.5	20525	3	1	0	23.22	19.34	0.086
QPSK	836.5	20525	3	1	8	23.30	19.42	0.087
QPSK	836.5	20525	3	1	14	23.16	19.28	0.085
QPSK	836.5	20525	3	8	0	22.37	18.49	0.071
QPSK	836.5	20525	3	8	4	22.37	18.49	0.071
QPSK	836.5	20525	3	8	7	22.32	18.44	0.070
QPSK	836.5	20525	3	15	0	22.34	18.46	0.070
QPSK	847.5	20635	3	1	0	23.01	19.13	0.082
QPSK	847.5	20635	3	1	8	23.06	19.18	0.083
QPSK	847.5	20635	3	1	14	23.08	19.20	0.083
QPSK	847.5	20635	3	8	0	22.09	18.21	0.066
QPSK	847.5	20635	3	8	4	22.15	18.27	0.067
QPSK	847.5	20635	3	8	7	22.10	18.22	0.066
QPSK	847.5	20635	3	15	0	22.11	18.23	0.067

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	825.5	20415	3	1	0	22.61	18.73	0.075
16QAM	825.5	20415	3	1	8	22.18	18.30	0.068
16QAM	825.5	20415	3	1	14	22.68	18.80	0.076
16QAM	825.5	20415	3	8	0	21.48	17.60	0.058
16QAM	825.5	20415	3	8	4	21.51	17.63	0.058
16QAM	825.5	20415	3	8	7	21.55	17.67	0.058
16QAM	825.5	20415	3	15	0	21.51	17.63	0.058
16QAM	836.5	20525	3	1	0	22.26	18.38	0.069
16QAM	836.5	20525	3	1	8	22.59	18.71	0.074
16QAM	836.5	20525	3	1	14	22.80	18.92	0.078
16QAM	836.5	20525	3	8	0	21.59	17.71	0.059
16QAM	836.5	20525	3	8	4	21.51	17.63	0.058
16QAM	836.5	20525	3	8	7	21.22	17.34	0.054
16QAM	836.5	20525	3	15	0	21.42	17.54	0.057
16QAM	847.5	20635	3	1	0	22.92	19.04	0.080
16QAM	847.5	20635	3	1	8	23.03	19.15	0.082
16QAM	847.5	20635	3	1	14	22.78	18.90	0.078
16QAM	847.5	20635	3	8	0	21.28	17.40	0.055
16QAM	847.5	20635	3	8	4	21.30	17.42	0.055
16QAM	847.5	20635	3	8	7	21.42	17.54	0.057
16QAM	847.5	20635	3	15	0	21.18	17.30	0.054

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
QPSK	826.5	20425	5	1	0	23.47	19.59	0.091
QPSK	826.5	20425	5	1	12	23.61	19.73	0.094
QPSK	826.5	20425	5	1	24	23.64	19.76	0.095
QPSK	826.5	20425	5	12	0	22.37	18.49	0.071
QPSK	826.5	20425	5	12	7	22.29	18.41	0.069
QPSK	826.5	20425	5	12	13	22.29	18.41	0.069
QPSK	826.5	20425	5	25	0	22.32	18.44	0.070
QPSK	836.5	20525	5	1	0	23.43	19.55	0.090
QPSK	836.5	20525	5	1	12	23.17	19.29	0.085
QPSK	836.5	20525	5	1	24	23.12	19.24	0.084
QPSK	836.5	20525	5	12	0	22.32	18.44	0.070
QPSK	836.5	20525	5	12	7	22.26	18.38	0.069
QPSK	836.5	20525	5	12	13	22.35	18.47	0.070
QPSK	836.5	20525	5	25	0	22.36	18.48	0.070
QPSK	846.5	20625	5	1	0	23.23	19.35	0.086
QPSK	846.5	20625	5	1	12	23.11	19.23	0.084
QPSK	846.5	20625	5	1	24	23.20	19.32	0.086
QPSK	846.5	20625	5	12	0	21.97	18.09	0.064
QPSK	846.5	20625	5	12	7	22.23	18.35	0.068
QPSK	846.5	20625	5	12	13	22.06	18.18	0.066
QPSK	846.5	20625	5	25	0	22.12	18.24	0.067

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	826.5	20425	5	1	0	22.99	19.11	0.081
16QAM	826.5	20425	5	1	12	22.53	18.65	0.073
16QAM	826.5	20425	5	1	24	22.66	18.78	0.076
16QAM	826.5	20425	5	12	0	21.45	17.57	0.057
16QAM	826.5	20425	5	12	7	21.54	17.66	0.058
16QAM	826.5	20425	5	12	13	21.53	17.65	0.058
16QAM	826.5	20425	5	25	0	21.49	17.61	0.058
16QAM	836.5	20525	5	1	0	22.93	19.05	0.080
16QAM	836.5	20525	5	1	12	22.48	18.60	0.072
16QAM	836.5	20525	5	1	24	22.75	18.87	0.077
16QAM	836.5	20525	5	12	0	21.41	17.53	0.057
16QAM	836.5	20525	5	12	7	21.42	17.54	0.057
16QAM	836.5	20525	5	12	13	21.21	17.33	0.054
16QAM	836.5	20525	5	25	0	21.32	17.44	0.055
16QAM	846.5	20625	5	1	0	22.57	18.69	0.074
16QAM	846.5	20625	5	1	12	22.63	18.75	0.075
16QAM	846.5	20625	5	1	24	22.60	18.72	0.074
16QAM	846.5	20625	5	12	0	21.32	17.44	0.055
16QAM	846.5	20625	5	12	7	21.29	17.41	0.055
16QAM	846.5	20625	5	12	13	21.21	17.33	0.054
16QAM	846.5	20625	5	25	0	21.54	17.66	0.058

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	829	20450	10	1	0	23.43	19.55	0.090
QPSK	829	20450	10	1	25	23.52	19.64	0.092
QPSK	829	20450	10	1	49	23.57	19.69	0.093
QPSK	829	20450	10	25	0	22.38	18.50	0.071
QPSK	829	20450	10	25	12	22.19	18.31	0.068
QPSK	829	20450	10	25	25	22.34	18.46	0.070
QPSK	829	20450	10	50	0	22.25	18.37	0.069
QPSK	836.5	20525	10	1	0	23.61	19.73	0.094
QPSK	836.5	20525	10	1	25	23.52	19.64	0.092
QPSK	836.5	20525	10	1	49	23.54	19.66	0.092
QPSK	836.5	20525	10	25	0	22.34	18.46	0.070
QPSK	836.5	20525	10	25	12	22.27	18.39	0.069
QPSK	836.5	20525	10	25	25	22.16	18.28	0.067
QPSK	836.5	20525	10	50	0	22.34	18.46	0.070
QPSK	844	20600	10	1	0	23.30	19.42	0.087
QPSK	844	20600	10	1	25	23.24	19.36	0.086
QPSK	844	20600	10	1	49	23.08	19.20	0.083
QPSK	844	20600	10	25	0	22.28	18.40	0.069
QPSK	844	20600	10	25	12	22.15	18.27	0.067
QPSK	844	20600	10	25	25	22.17	18.29	0.067
QPSK	844	20600	10	50	0	22.14	18.26	0.067

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	829	20450	10	1	0	22.51	18.63	0.073
16QAM	829	20450	10	1	25	22.59	18.71	0.074
16QAM	829	20450	10	1	49	23.12	19.24	0.084
16QAM	829	20450	10	25	0	21.54	17.66	0.058
16QAM	829	20450	10	25	12	21.78	17.90	0.062
16QAM	829	20450	10	25	25	21.84	17.96	0.063
16QAM	829	20450	10	50	0	21.33	17.45	0.056
16QAM	836.5	20525	10	1	0	22.66	18.78	0.076
16QAM	836.5	20525	10	1	25	22.77	18.89	0.077
16QAM	836.5	20525	10	1	49	22.83	18.95	0.079
16QAM	836.5	20525	10	25	0	21.36	17.48	0.056
16QAM	836.5	20525	10	25	12	21.42	17.54	0.057
16QAM	836.5	20525	10	25	25	21.50	17.62	0.058
16QAM	836.5	20525	10	50	0	21.14	17.26	0.053
16QAM	844	20600	10	1	0	22.36	18.48	0.070
16QAM	844	20600	10	1	25	22.83	18.95	0.079
16QAM	844	20600	10	1	49	22.50	18.62	0.073
16QAM	844	20600	10	25	0	21.18	17.30	0.054
16QAM	844	20600	10	25	12	21.14	17.26	0.053
16QAM	844	20600	10	25	25	21.20	17.32	0.054
16QAM	844	20600	10	50	0	21.16	17.28	0.053