

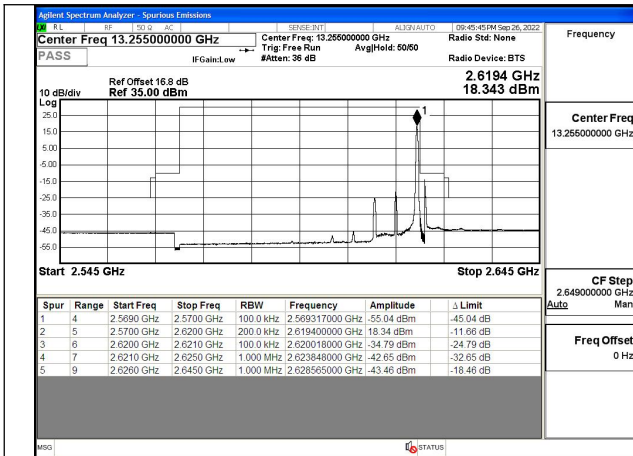


Fig.7

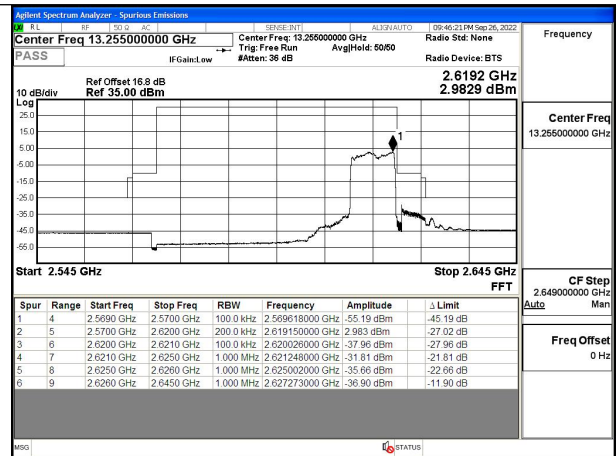


Fig.8

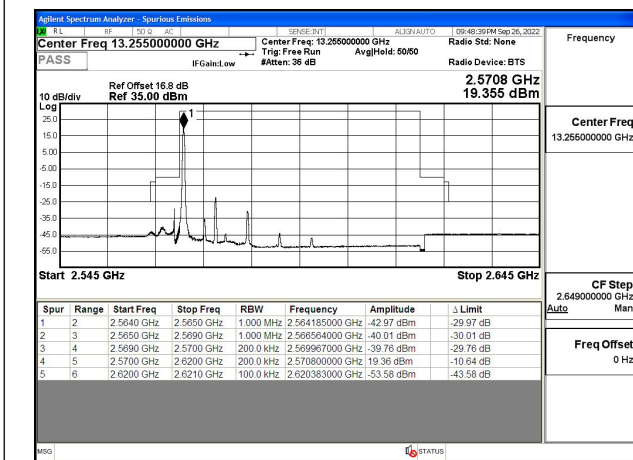


Fig.9

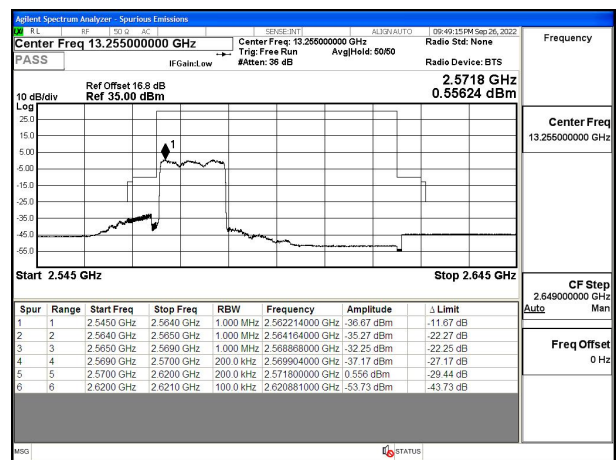


Fig.10

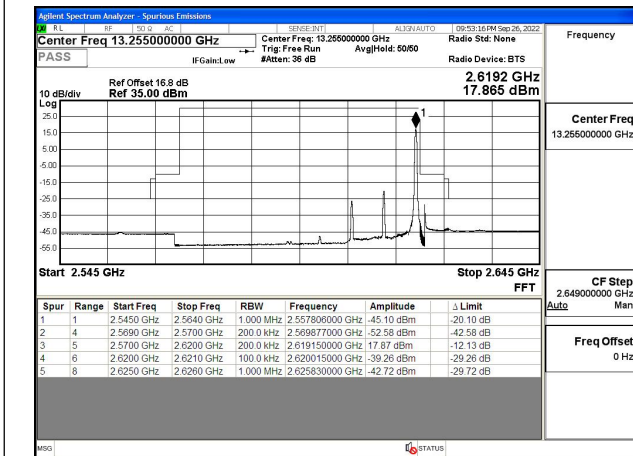


Fig.11

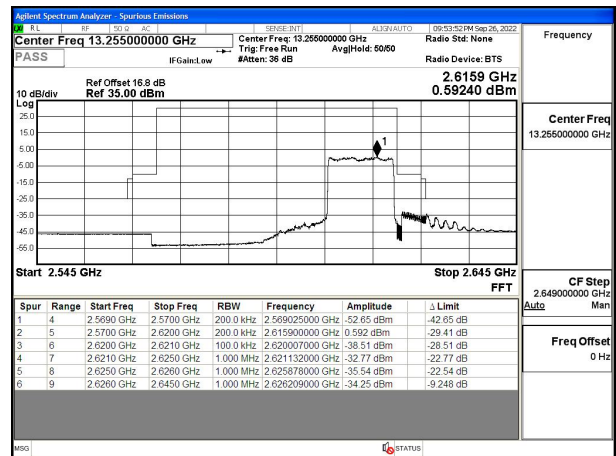


Fig.12

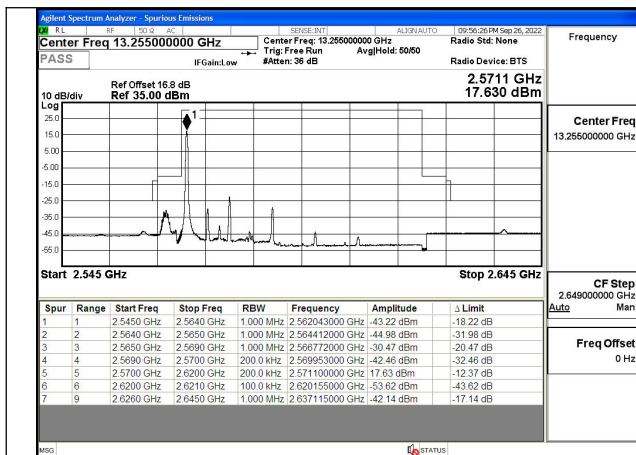


Fig.13

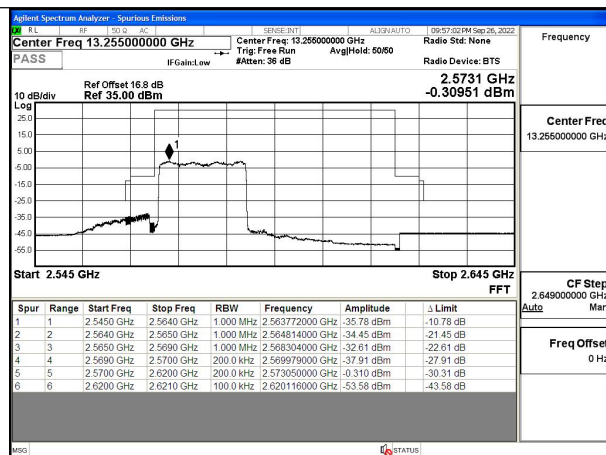


Fig.14

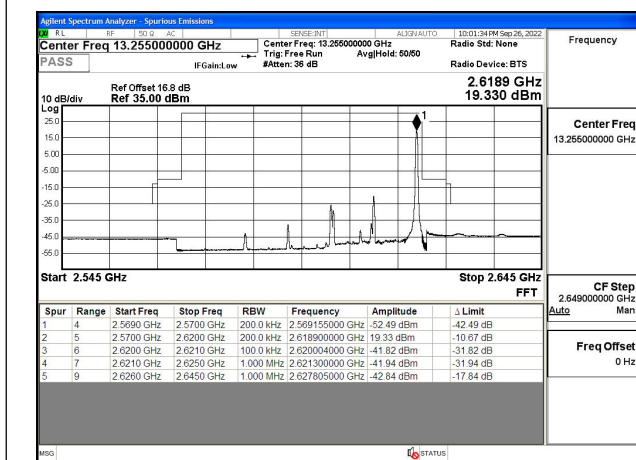


Fig.15

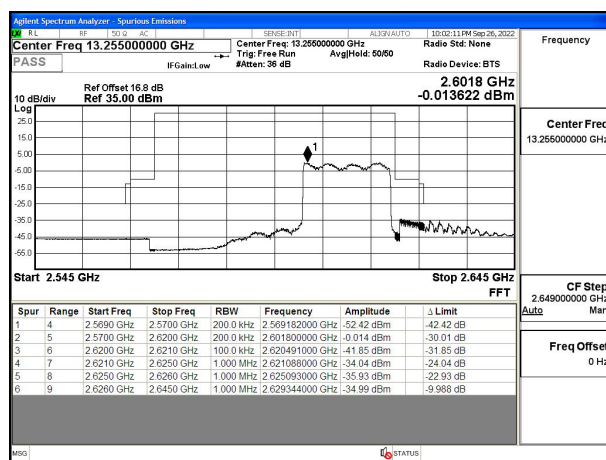


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.001	0.010	0.011	-0.014
0	NV	-0.007	-0.020	-0.005	-0.014
+10	NV	-0.008	-0.006	-0.011	-0.010
+20	NV	-0.009	-0.013	-0.004	-0.009
+30	NV	-0.001	-0.008	0.003	-0.008
+40	NV	0.002	0.005	-0.004	0.013
+50	NV	0.004	0.006	-0.003	0.004
+55	NV	0.001	-0.005	0.013	-0.005
+20	LV	-0.011	0.020	-0.006	-0.003
+20	HV	0.004	-0.003	0.004	0.016

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.005	-0.004	0.005	-0.007
0	NV	-0.015	-0.010	0.013	0.016
+10	NV	-0.007	0.005	-0.003	-0.004
+20	NV	-0.005	0.010	-0.012	0.001
+30	NV	-0.012	0.002	-0.014	0.001
+40	NV	0.009	0.002	-0.007	-0.004
+50	NV	-0.010	0.002	-0.005	-0.004
+55	NV	-0.006	-0.009	-0.017	0.003
+20	LV	-0.010	-0.020	-0.011	-0.011
+20	HV	-0.010	-0.006	-0.004	0.004

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	2572.5	37775	5	1	0	24.89	22.99	0.199
QPSK	2572.5	37775	5	1	12	24.77	22.87	0.194
QPSK	2572.5	37775	5	1	24	24.66	22.76	0.189
QPSK	2572.5	37775	5	12	0	23.93	22.03	0.160
QPSK	2572.5	37775	5	12	7	23.81	21.91	0.155
QPSK	2572.5	37775	5	12	13	23.75	21.85	0.153
QPSK	2572.5	37775	5	25	0	23.89	21.99	0.158
QPSK	2595	38000	5	1	0	25.10	23.20	0.209
QPSK	2595	38000	5	1	12	25.10	23.20	0.209
QPSK	2595	38000	5	1	24	25.13	23.23	0.210
QPSK	2595	38000	5	12	0	23.59	21.69	0.148
QPSK	2595	38000	5	12	7	23.69	21.79	0.151
QPSK	2595	38000	5	12	13	23.62	21.72	0.149
QPSK	2595	38000	5	25	0	23.81	21.91	0.155
QPSK	2617.5	38225	5	1	0	24.75	22.85	0.193
QPSK	2617.5	38225	5	1	12	24.90	23.00	0.200
QPSK	2617.5	38225	5	1	24	25.11	23.21	0.209
QPSK	2617.5	38225	5	12	0	23.53	21.63	0.146
QPSK	2617.5	38225	5	12	7	23.51	21.61	0.145
QPSK	2617.5	38225	5	12	13	23.79	21.89	0.155
QPSK	2617.5	38225	5	25	0	23.52	21.62	0.145

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2572.5	37775	5	1	0	23.62	21.72	0.149
16QAM	2572.5	37775	5	1	12	23.42	21.52	0.142
16QAM	2572.5	37775	5	1	24	23.18	21.28	0.134
16QAM	2572.5	37775	5	12	0	22.97	21.07	0.128
16QAM	2572.5	37775	5	12	7	22.77	20.87	0.122
16QAM	2572.5	37775	5	12	13	22.83	20.93	0.124
16QAM	2572.5	37775	5	25	0	22.82	20.92	0.124
16QAM	2595	38000	5	1	0	23.61	21.71	0.148
16QAM	2595	38000	5	1	12	23.72	21.82	0.152
16QAM	2595	38000	5	1	24	23.67	21.77	0.150
16QAM	2595	38000	5	12	0	22.72	20.82	0.121
16QAM	2595	38000	5	12	7	22.81	20.91	0.123
16QAM	2595	38000	5	12	13	22.60	20.70	0.117
16QAM	2595	38000	5	25	0	22.87	20.97	0.125
16QAM	2617.5	38225	5	1	0	22.84	20.94	0.124
16QAM	2617.5	38225	5	1	12	23.02	21.12	0.129
16QAM	2617.5	38225	5	1	24	23.22	21.32	0.136
16QAM	2617.5	38225	5	12	0	22.60	20.70	0.117
16QAM	2617.5	38225	5	12	7	22.49	20.59	0.115
16QAM	2617.5	38225	5	12	13	22.74	20.84	0.121
16QAM	2617.5	38225	5	25	0	22.59	20.69	0.117
64QAM	2572.5	37775	5	1	0	22.20	20.30	0.107
64QAM	2572.5	37775	5	1	12	21.88	19.98	0.100
64QAM	2572.5	37775	5	1	24	21.73	19.83	0.096
64QAM	2572.5	37775	5	12	0	21.44	19.54	0.090
64QAM	2572.5	37775	5	12	7	21.18	19.28	0.085
64QAM	2572.5	37775	5	12	13	21.31	19.41	0.087
64QAM	2572.5	37775	5	25	0	21.47	19.57	0.091
64QAM	2595	38000	5	1	0	22.38	20.48	0.112
64QAM	2595	38000	5	1	12	22.70	20.80	0.120
64QAM	2595	38000	5	1	24	21.53	19.63	0.092
64QAM	2595	38000	5	12	0	21.07	19.17	0.083
64QAM	2595	38000	5	12	7	21.18	19.28	0.085
64QAM	2595	38000	5	12	13	20.96	19.06	0.081
64QAM	2595	38000	5	25	0	21.35	19.45	0.088
64QAM	2617.5	38225	5	1	0	21.58	19.68	0.093
64QAM	2617.5	38225	5	1	12	21.83	19.93	0.098
64QAM	2617.5	38225	5	1	24	21.99	20.09	0.102
64QAM	2617.5	38225	5	12	0	21.17	19.27	0.085
64QAM	2617.5	38225	5	12	7	21.33	19.43	0.088
64QAM	2617.5	38225	5	12	13	21.52	19.62	0.092
64QAM	2617.5	38225	5	25	0	21.42	19.52	0.090

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2575	37800	10	1	0	24.87	22.97	0.198
QPSK	2575	37800	10	1	25	24.51	22.61	0.182
QPSK	2575	37800	10	1	49	24.51	22.61	0.182
QPSK	2575	37800	10	25	0	23.75	21.85	0.153
QPSK	2575	37800	10	25	12	23.49	21.59	0.144
QPSK	2575	37800	10	25	25	23.52	21.62	0.145
QPSK	2575	37800	10	50	0	23.09	21.19	0.132
QPSK	2595	38000	10	1	0	24.92	23.02	0.200
QPSK	2595	38000	10	1	25	24.98	23.08	0.203
QPSK	2595	38000	10	1	49	24.61	22.71	0.187
QPSK	2595	38000	10	25	0	23.49	21.59	0.144
QPSK	2595	38000	10	25	12	23.56	21.66	0.147
QPSK	2595	38000	10	25	25	23.49	21.59	0.144
QPSK	2595	38000	10	50	0	23.25	21.35	0.136
QPSK	2615	38200	10	1	0	24.61	22.71	0.187
QPSK	2615	38200	10	1	25	24.64	22.74	0.188
QPSK	2615	38200	10	1	49	24.85	22.95	0.197
QPSK	2615	38200	10	25	0	23.63	21.73	0.149
QPSK	2615	38200	10	25	12	23.47	21.57	0.144
QPSK	2615	38200	10	25	25	23.63	21.73	0.149
QPSK	2615	38200	10	50	0	23.21	21.31	0.135

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2575	37800	10	1	0	23.47	21.57	0.144
16QAM	2575	37800	10	1	25	23.07	21.17	0.131
16QAM	2575	37800	10	1	49	23.18	21.28	0.134
16QAM	2575	37800	10	25	0	22.79	20.89	0.123
16QAM	2575	37800	10	25	12	22.57	20.67	0.117
16QAM	2575	37800	10	25	25	22.61	20.71	0.118
16QAM	2575	37800	10	50	0	22.29	20.39	0.109
16QAM	2595	38000	10	1	0	23.47	21.57	0.144
16QAM	2595	38000	10	1	25	23.38	21.48	0.141
16QAM	2595	38000	10	1	49	23.24	21.34	0.136
16QAM	2595	38000	10	25	0	22.45	20.55	0.114
16QAM	2595	38000	10	25	12	22.59	20.69	0.117
16QAM	2595	38000	10	25	25	22.41	20.51	0.112
16QAM	2595	38000	10	50	0	22.21	20.31	0.107
16QAM	2615	38200	10	1	0	23.30	21.40	0.138
16QAM	2615	38200	10	1	25	23.17	21.27	0.134
16QAM	2615	38200	10	1	49	23.53	21.63	0.146
16QAM	2615	38200	10	25	0	22.53	20.63	0.116
16QAM	2615	38200	10	25	12	22.57	20.67	0.117
16QAM	2615	38200	10	25	25	22.73	20.83	0.121
16QAM	2615	38200	10	50	0	22.20	20.30	0.107
64QAM	2575	37800	10	1	0	22.53	20.63	0.116
64QAM	2575	37800	10	1	25	22.64	20.74	0.119
64QAM	2575	37800	10	1	49	22.42	20.52	0.113
64QAM	2575	37800	10	25	0	21.56	19.66	0.092
64QAM	2575	37800	10	25	12	21.27	19.37	0.086
64QAM	2575	37800	10	25	25	21.44	19.54	0.090
64QAM	2575	37800	10	50	0	20.86	18.96	0.079
64QAM	2595	38000	10	1	0	21.93	20.03	0.101
64QAM	2595	38000	10	1	25	21.71	19.81	0.096
64QAM	2595	38000	10	1	49	21.64	19.74	0.094
64QAM	2595	38000	10	25	0	21.11	19.21	0.083
64QAM	2595	38000	10	25	12	21.08	19.18	0.083
64QAM	2595	38000	10	25	25	21.10	19.20	0.083
64QAM	2595	38000	10	50	0	20.79	18.89	0.077
64QAM	2615	38200	10	1	0	21.94	20.04	0.101
64QAM	2615	38200	10	1	25	22.06	20.16	0.104
64QAM	2615	38200	10	1	49	22.25	20.35	0.108
64QAM	2615	38200	10	25	0	21.28	19.38	0.087
64QAM	2615	38200	10	25	12	21.21	19.31	0.085
64QAM	2615	38200	10	25	25	21.49	19.59	0.091
64QAM	2615	38200	10	50	0	20.78	18.88	0.077

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2577.5	37825	15	1	0	25.06	23.16	0.207
QPSK	2577.5	37825	15	1	37	24.80	22.90	0.195
QPSK	2577.5	37825	15	1	74	24.92	23.02	0.200
QPSK	2577.5	37825	15	36	0	23.69	21.79	0.151
QPSK	2577.5	37825	15	36	29	23.62	21.72	0.149
QPSK	2577.5	37825	15	36	30	23.64	21.74	0.149
QPSK	2577.5	37825	15	75	0	23.37	21.47	0.140
QPSK	2595	38000	15	1	0	25.24	23.34	0.216
QPSK	2595	38000	15	1	37	25.08	23.18	0.208
QPSK	2595	38000	15	1	74	24.86	22.96	0.198
QPSK	2595	38000	15	36	0	23.71	21.81	0.152
QPSK	2595	38000	15	36	29	23.65	21.75	0.150
QPSK	2595	38000	15	36	30	23.65	21.75	0.150
QPSK	2595	38000	15	75	0	23.36	21.46	0.140
QPSK	2612.5	38175	15	1	0	24.56	22.66	0.185
QPSK	2612.5	38175	15	1	37	24.55	22.65	0.184
QPSK	2612.5	38175	15	1	74	24.92	23.02	0.200
QPSK	2612.5	38175	15	36	0	23.64	21.74	0.149
QPSK	2612.5	38175	15	36	29	23.37	21.47	0.140
QPSK	2612.5	38175	15	36	30	23.37	21.47	0.140
QPSK	2612.5	38175	15	75	0	23.28	21.38	0.137

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2577.5	37825	15	1	0	23.62	21.72	0.149
16QAM	2577.5	37825	15	1	37	23.29	21.39	0.138
16QAM	2577.5	37825	15	1	74	23.31	21.41	0.138
16QAM	2577.5	37825	15	36	0	22.77	20.87	0.122
16QAM	2577.5	37825	15	36	29	22.70	20.80	0.120
16QAM	2577.5	37825	15	36	30	22.71	20.81	0.121
16QAM	2577.5	37825	15	75	0	22.47	20.57	0.114
16QAM	2595	38000	15	1	0	23.81	21.91	0.155
16QAM	2595	38000	15	1	37	23.65	21.75	0.150
16QAM	2595	38000	15	1	74	23.63	21.73	0.149
16QAM	2595	38000	15	36	0	22.75	20.85	0.122
16QAM	2595	38000	15	36	29	22.63	20.73	0.118
16QAM	2595	38000	15	36	30	22.64	20.74	0.119
16QAM	2595	38000	15	75	0	22.30	20.40	0.110
16QAM	2612.5	38175	15	1	0	23.24	21.34	0.136
16QAM	2612.5	38175	15	1	37	23.08	21.18	0.131
16QAM	2612.5	38175	15	1	74	23.60	21.70	0.148
16QAM	2612.5	38175	15	36	0	22.47	20.57	0.114
16QAM	2612.5	38175	15	36	29	22.48	20.58	0.114
16QAM	2612.5	38175	15	36	30	22.48	20.58	0.114
16QAM	2612.5	38175	15	75	0	22.18	20.28	0.107
64QAM	2577.5	37825	15	1	0	22.34	20.44	0.111
64QAM	2577.5	37825	15	1	37	22.38	20.48	0.112
64QAM	2577.5	37825	15	1	74	22.29	20.39	0.109
64QAM	2577.5	37825	15	36	0	21.29	19.39	0.087
64QAM	2577.5	37825	15	36	29	21.34	19.44	0.088
64QAM	2577.5	37825	15	36	30	21.35	19.45	0.088
64QAM	2577.5	37825	15	75	0	20.93	19.03	0.080
64QAM	2595	38000	15	1	0	22.52	20.62	0.115
64QAM	2595	38000	15	1	37	22.09	20.19	0.104
64QAM	2595	38000	15	1	74	22.64	20.74	0.119
64QAM	2595	38000	15	36	0	21.55	19.65	0.092
64QAM	2595	38000	15	36	29	21.26	19.36	0.086
64QAM	2595	38000	15	36	30	21.27	19.37	0.086
64QAM	2595	38000	15	75	0	20.78	18.88	0.077
64QAM	2612.5	38175	15	1	0	22.03	20.13	0.103
64QAM	2612.5	38175	15	1	37	21.81	19.91	0.098
64QAM	2612.5	38175	15	1	74	21.75	19.85	0.097
64QAM	2612.5	38175	15	36	0	21.01	19.11	0.081
64QAM	2612.5	38175	15	36	29	21.08	19.18	0.083
64QAM	2612.5	38175	15	36	30	21.09	19.19	0.083
64QAM	2612.5	38175	15	75	0	20.79	18.89	0.077

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2580	37850	20	1	0	25.18	23.28	0.213
QPSK	2580	37850	20	1	49	24.86	22.96	0.198
QPSK	2580	37850	20	1	99	24.86	22.96	0.198
QPSK	2580	37850	20	50	0	23.77	21.87	0.154
QPSK	2580	37850	20	50	24	23.66	21.76	0.150
QPSK	2580	37850	20	50	50	23.77	21.87	0.154
QPSK	2580	37850	20	100	0	23.36	21.46	0.140
QPSK	2595	38000	20	1	0	24.89	22.99	0.199
QPSK	2595	38000	20	1	49	24.91	23.01	0.200
QPSK	2595	38000	20	1	99	24.64	22.74	0.188
QPSK	2595	38000	20	50	0	23.45	21.55	0.143
QPSK	2595	38000	20	50	24	23.69	21.79	0.151
QPSK	2595	38000	20	50	50	23.40	21.50	0.141
QPSK	2595	38000	20	100	0	23.10	21.20	0.132
QPSK	2610	38150	20	1	0	25.00	23.10	0.204
QPSK	2610	38150	20	1	49	24.94	23.04	0.201
QPSK	2610	38150	20	1	99	25.25	23.35	0.216
QPSK	2610	38150	20	50	0	23.67	21.77	0.150
QPSK	2610	38150	20	50	24	23.52	21.62	0.145
QPSK	2610	38150	20	50	50	23.47	21.57	0.144
QPSK	2610	38150	20	100	0	23.18	21.28	0.134

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2580	37850	20	1	0	23.61	21.71	0.148
16QAM	2580	37850	20	1	49	23.34	21.44	0.139
16QAM	2580	37850	20	1	99	23.34	21.44	0.139
16QAM	2580	37850	20	50	0	22.70	20.80	0.120
16QAM	2580	37850	20	50	24	22.80	20.90	0.123
16QAM	2580	37850	20	50	50	22.73	20.83	0.121
16QAM	2580	37850	20	100	0	22.46	20.56	0.114
16QAM	2595	38000	20	1	0	23.56	21.66	0.147
16QAM	2595	38000	20	1	49	23.42	21.52	0.142
16QAM	2595	38000	20	1	99	23.26	21.36	0.137
16QAM	2595	38000	20	50	0	22.72	20.82	0.121
16QAM	2595	38000	20	50	24	22.61	20.71	0.118
16QAM	2595	38000	20	50	50	22.51	20.61	0.115
16QAM	2595	38000	20	100	0	22.33	20.43	0.110
16QAM	2610	38150	20	1	0	23.66	21.76	0.150
16QAM	2610	38150	20	1	49	23.42	21.52	0.142
16QAM	2610	38150	20	1	99	23.81	21.91	0.155
16QAM	2610	38150	20	50	0	22.68	20.78	0.120
16QAM	2610	38150	20	50	24	22.55	20.65	0.116
16QAM	2610	38150	20	50	50	22.56	20.66	0.116
16QAM	2610	38150	20	100	0	22.14	20.24	0.106
64QAM	2580	37850	20	1	0	22.29	20.39	0.109
64QAM	2580	37850	20	1	49	22.30	20.40	0.110
64QAM	2580	37850	20	1	99	22.62	20.72	0.118
64QAM	2580	37850	20	50	0	21.29	19.39	0.087
64QAM	2580	37850	20	50	24	21.29	19.39	0.087
64QAM	2580	37850	20	50	50	21.36	19.46	0.088
64QAM	2580	37850	20	100	0	21.04	19.14	0.082
64QAM	2595	38000	20	1	0	21.77	19.87	0.097
64QAM	2595	38000	20	1	49	21.91	20.01	0.100
64QAM	2595	38000	20	1	99	21.62	19.72	0.094
64QAM	2595	38000	20	50	0	21.17	19.27	0.085
64QAM	2595	38000	20	50	24	21.02	19.12	0.082
64QAM	2595	38000	20	50	50	21.05	19.15	0.082
64QAM	2595	38000	20	100	0	20.77	18.87	0.077
64QAM	2610	38150	20	1	0	22.12	20.22	0.105
64QAM	2610	38150	20	1	49	21.40	19.50	0.089
64QAM	2610	38150	20	1	99	22.22	20.32	0.108
64QAM	2610	38150	20	50	0	21.24	19.34	0.086
64QAM	2610	38150	20	50	24	21.03	19.13	0.082
64QAM	2610	38150	20	50	50	21.02	19.12	0.082
64QAM	2610	38150	20	100	0	20.70	18.80	0.076