

Fig. 11

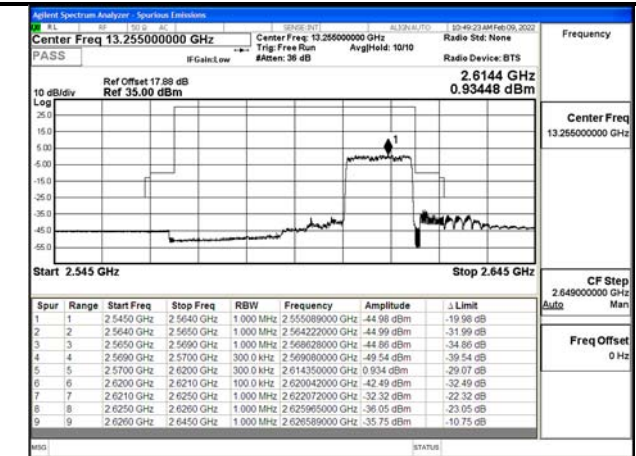


Fig. 12

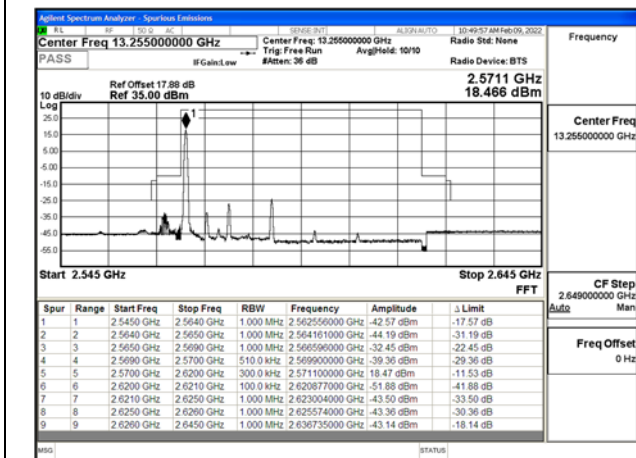


Fig. 13

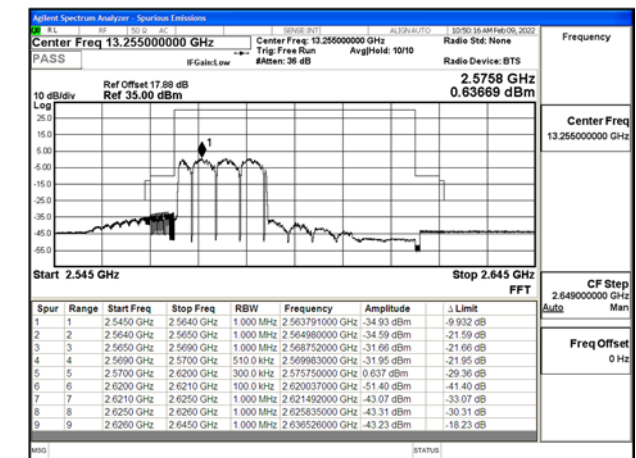


Fig. 14

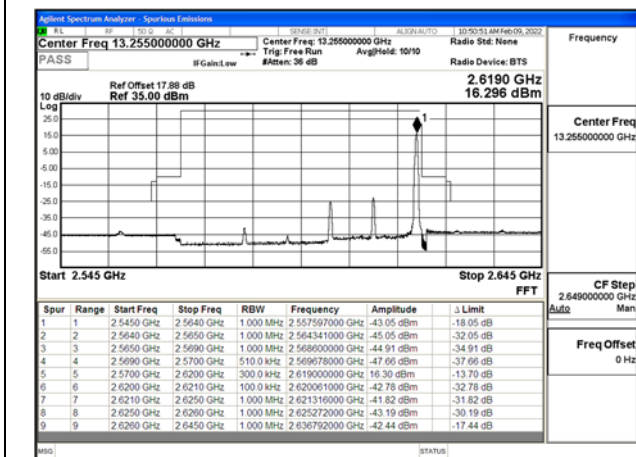


Fig. 15

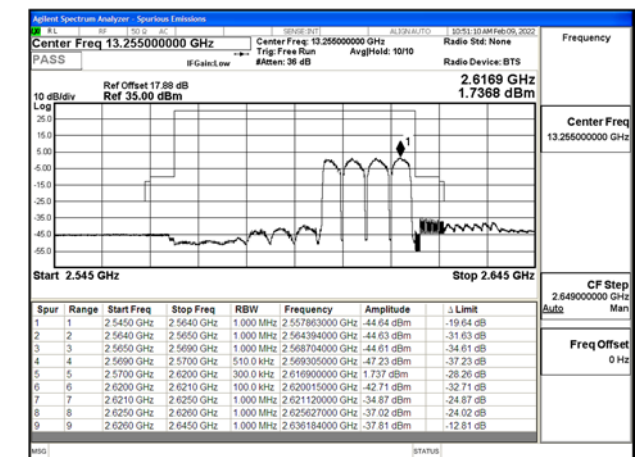


Fig. 16

## 7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.010	0.002	-0.005	-0.008
0	NV	-0.009	0.009	-0.011	0.013
+10	NV	-0.021	-0.015	-0.022	-0.015
+30	NV	-0.009	-0.017	-0.018	-0.020
+40	NV	-0.017	-0.018	-0.018	-0.008
+55	NV	0.009	0.007	0.007	-0.026
+20	LV	-0.020	-0.018	-0.005	-0.026
+20	HV	-0.014	-0.020	-0.015	0.040

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.008	-0.006	0.005	-0.010
0	NV	-0.021	-0.015	-0.018	-0.017
+10	NV	-0.020	-0.015	-0.018	-0.015
+30	NV	-0.007	-0.020	-0.014	-0.010
+40	NV	-0.020	-0.008	-0.015	-0.009
+55	NV	0.017	0.008	0.010	0.009
+20	LV	-0.018	-0.020	-0.018	-0.020
+20	HV	-0.018	-0.021	-0.006	-0.014

### 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)
16QAM	2572.5	37775	5	1	0	22.51	25.41	0.348
16QAM	2572.5	37775	5	1	12	22.15	25.05	0.320
16QAM	2572.5	37775	5	1	24	22.62	25.52	0.356
16QAM	2572.5	37775	5	12	0	20.91	23.81	0.240
16QAM	2572.5	37775	5	12	7	20.89	23.79	0.239
16QAM	2572.5	37775	5	12	13	20.84	23.74	0.237
16QAM	2572.5	37775	5	25	0	21.09	23.99	0.251
16QAM	2595	38000	5	1	0	21.59	24.49	0.281
16QAM	2595	38000	5	1	12	21.85	24.75	0.299
16QAM	2595	38000	5	1	24	21.56	24.46	0.279
16QAM	2595	38000	5	12	0	20.63	23.53	0.225
16QAM	2595	38000	5	12	7	20.60	23.50	0.224
16QAM	2595	38000	5	12	13	20.42	23.32	0.215
16QAM	2595	38000	5	25	0	20.78	23.68	0.233
16QAM	2617.5	38225	5	1	0	21.94	24.84	0.305
16QAM	2617.5	38225	5	1	12	21.86	24.76	0.299
16QAM	2617.5	38225	5	1	24	21.96	24.86	0.306
16QAM	2617.5	38225	5	12	0	20.71	23.61	0.230
16QAM	2617.5	38225	5	12	7	20.73	23.63	0.231
16QAM	2617.5	38225	5	12	13	20.75	23.65	0.232
16QAM	2617.5	38225	5	25	0	21.05	23.95	0.248
64QAM	2572.5	37775	5	1	0	20.56	23.46	0.222
64QAM	2572.5	37775	5	1	12	20.45	23.35	0.216
64QAM	2572.5	37775	5	1	24	20.57	23.47	0.222
64QAM	2572.5	37775	5	12	0	19.04	21.94	0.156
64QAM	2572.5	37775	5	12	7	19.14	22.04	0.160
64QAM	2572.5	37775	5	12	13	18.93	21.83	0.152
64QAM	2572.5	37775	5	25	0	19.09	21.99	0.158
64QAM	2595	38000	5	1	0	21.26	24.16	0.261
64QAM	2595	38000	5	1	12	21.67	24.57	0.286
64QAM	2595	38000	5	1	24	21.36	24.26	0.267
64QAM	2595	38000	5	12	0	19.06	21.96	0.157
64QAM	2595	38000	5	12	7	19.15	22.05	0.160
64QAM	2595	38000	5	12	13	18.96	21.86	0.153
64QAM	2595	38000	5	25	0	18.99	21.89	0.155
64QAM	2617.5	38225	5	1	0	20.98	23.88	0.244
64QAM	2617.5	38225	5	1	12	21.05	23.95	0.248
64QAM	2617.5	38225	5	1	24	21.00	23.90	0.245
64QAM	2617.5	38225	5	12	0	19.01	21.91	0.155
64QAM	2617.5	38225	5	12	7	19.18	22.08	0.161
64QAM	2617.5	38225	5	12	13	18.98	21.88	0.154

64QAM	2617.5	38225	5	25	0	19.02	21.92	0.156
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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2572.5	37775	5	1	0	22.92	25.82	0.382
QPSK	2572.5	37775	5	1	12	22.97	25.87	0.386
QPSK	2572.5	37775	5	1	24	22.96	25.86	0.385
QPSK	2572.5	37775	5	12	0	21.87	24.77	0.300
QPSK	2572.5	37775	5	12	7	21.82	24.72	0.296
QPSK	2572.5	37775	5	12	13	21.87	24.77	0.300
QPSK	2572.5	37775	5	25	0	21.93	24.83	0.304
QPSK	2595	38000	5	1	0	22.53	25.43	0.349
QPSK	2595	38000	5	1	12	22.48	25.38	0.345
QPSK	2595	38000	5	1	24	22.53	25.43	0.349
QPSK	2595	38000	5	12	0	21.55	24.45	0.279
QPSK	2595	38000	5	12	7	21.40	24.30	0.269
QPSK	2595	38000	5	12	13	21.35	24.25	0.266
QPSK	2595	38000	5	25	0	21.40	24.30	0.269
QPSK	2617.5	38225	5	1	0	22.54	25.44	0.350
QPSK	2617.5	38225	5	1	12	22.55	25.45	0.351
QPSK	2617.5	38225	5	1	24	22.69	25.59	0.362
QPSK	2617.5	38225	5	12	0	21.61	24.51	0.282
QPSK	2617.5	38225	5	12	7	21.51	24.41	0.276
QPSK	2617.5	38225	5	12	13	21.46	24.36	0.273
QPSK	2617.5	38225	5	25	0	21.50	24.40	0.275

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2575	37800	10	1	0	22.27	25.17	0.329
16QAM	2575	37800	10	1	25	21.77	24.67	0.293
16QAM	2575	37800	10	1	49	21.83	24.73	0.297
16QAM	2575	37800	10	25	0	21.07	23.97	0.249
16QAM	2575	37800	10	25	12	21.03	23.93	0.247
16QAM	2575	37800	10	25	25	21.02	23.92	0.247
16QAM	2575	37800	10	50	0	21.07	23.97	0.249
16QAM	2595	38000	10	1	0	22.48	25.38	0.345
16QAM	2595	38000	10	1	25	22.25	25.15	0.327
16QAM	2595	38000	10	1	49	22.24	25.14	0.327
16QAM	2595	38000	10	25	0	20.60	23.50	0.224
16QAM	2595	38000	10	25	12	20.61	23.51	0.224
16QAM	2595	38000	10	25	25	20.69	23.59	0.229
16QAM	2595	38000	10	50	0	20.69	23.59	0.229
16QAM	2615	38200	10	1	0	21.69	24.59	0.288
16QAM	2615	38200	10	1	25	21.64	24.54	0.284
16QAM	2615	38200	10	1	49	21.71	24.61	0.289
16QAM	2615	38200	10	25	0	20.78	23.68	0.233
16QAM	2615	38200	10	25	12	20.72	23.62	0.230
16QAM	2615	38200	10	25	25	20.80	23.70	0.234
16QAM	2615	38200	10	50	0	20.80	23.70	0.234
64QAM	2575	37800	10	1	0	21.97	24.87	0.307
64QAM	2575	37800	10	1	25	21.85	24.75	0.299
64QAM	2575	37800	10	1	49	21.78	24.68	0.294
64QAM	2575	37800	10	25	0	19.29	22.19	0.166
64QAM	2575	37800	10	25	12	19.27	22.17	0.165
64QAM	2575	37800	10	25	25	19.31	22.21	0.166
64QAM	2575	37800	10	50	0	19.35	22.25	0.168
64QAM	2595	38000	10	1	0	20.17	23.07	0.203
64QAM	2595	38000	10	1	25	20.55	23.45	0.221
64QAM	2595	38000	10	1	49	20.15	23.05	0.202
64QAM	2595	38000	10	25	0	19.17	22.07	0.161
64QAM	2595	38000	10	25	12	19.19	22.09	0.162
64QAM	2595	38000	10	25	25	19.26	22.16	0.164
64QAM	2595	38000	10	50	0	19.24	22.14	0.164
64QAM	2615	38200	10	1	0	21.11	24.01	0.252
64QAM	2615	38200	10	1	25	21.35	24.25	0.266
64QAM	2615	38200	10	1	49	21.38	24.28	0.268
64QAM	2615	38200	10	25	0	19.07	21.97	0.157
64QAM	2615	38200	10	25	12	19.12	22.02	0.159
64QAM	2615	38200	10	25	25	19.36	22.26	0.168
64QAM	2615	38200	10	50	0	19.16	22.06	0.161

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2575	37800	10	1	0	22.93	25.83	0.383
QPSK	2575	37800	10	1	25	22.80	25.70	0.372
QPSK	2575	37800	10	1	49	22.75	25.65	0.367
QPSK	2575	37800	10	25	0	22.00	24.90	0.309
QPSK	2575	37800	10	25	12	21.96	24.86	0.306
QPSK	2575	37800	10	25	25	21.92	24.82	0.303
QPSK	2575	37800	10	50	0	21.91	24.81	0.303
QPSK	2595	38000	10	1	0	22.73	25.63	0.366
QPSK	2595	38000	10	1	25	22.36	25.26	0.336
QPSK	2595	38000	10	1	49	22.50	25.40	0.347
QPSK	2595	38000	10	25	0	21.48	24.38	0.274
QPSK	2595	38000	10	25	12	21.47	24.37	0.274
QPSK	2595	38000	10	25	25	21.43	24.33	0.271
QPSK	2595	38000	10	50	0	21.39	24.29	0.269
QPSK	2615	38200	10	1	0	22.40	25.30	0.339
QPSK	2615	38200	10	1	25	22.45	25.35	0.343
QPSK	2615	38200	10	1	49	22.44	25.34	0.342
QPSK	2615	38200	10	25	0	21.64	24.54	0.284
QPSK	2615	38200	10	25	12	21.57	24.47	0.280
QPSK	2615	38200	10	25	25	21.66	24.56	0.286
QPSK	2615	38200	10	50	0	21.52	24.42	0.277

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2577.5	37825	15	1	0	22.47	25.37	0.344
16QAM	2577.5	37825	15	1	37	21.77	24.67	0.293
16QAM	2577.5	37825	15	1	74	21.48	24.38	0.274
16QAM	2577.5	37825	15	36	0	21.19	24.09	0.256
16QAM	2577.5	37825	15	36	29	21.05	23.95	0.248
16QAM	2577.5	37825	15	36	30	21.05	23.95	0.248
16QAM	2577.5	37825	15	75	0	21.02	23.92	0.247
16QAM	2595	38000	15	1	0	22.56	25.46	0.352
16QAM	2595	38000	15	1	37	22.22	25.12	0.325
16QAM	2595	38000	15	1	74	22.20	25.10	0.324
16QAM	2595	38000	15	36	0	20.81	23.71	0.235
16QAM	2595	38000	15	36	29	20.61	23.51	0.224
16QAM	2595	38000	15	36	30	20.61	23.51	0.224
16QAM	2595	38000	15	75	0	20.69	23.59	0.229
16QAM	2612.5	38175	15	1	0	21.32	24.22	0.264
16QAM	2612.5	38175	15	1	37	21.35	24.25	0.266
16QAM	2612.5	38175	15	1	74	21.41	24.31	0.270
16QAM	2612.5	38175	15	36	0	20.68	23.58	0.228
16QAM	2612.5	38175	15	36	29	20.79	23.69	0.234
16QAM	2612.5	38175	15	36	30	20.80	23.70	0.234
16QAM	2612.5	38175	15	75	0	20.85	23.75	0.237
64QAM	2577.5	37825	15	1	0	21.87	24.77	0.300
64QAM	2577.5	37825	15	1	37	21.86	24.76	0.299
64QAM	2577.5	37825	15	1	74	21.72	24.62	0.290
64QAM	2577.5	37825	15	36	0	19.38	22.28	0.169
64QAM	2577.5	37825	15	36	29	19.13	22.03	0.160
64QAM	2577.5	37825	15	36	30	19.13	22.03	0.160
64QAM	2577.5	37825	15	75	0	19.26	22.16	0.164
64QAM	2595	38000	15	1	0	20.94	23.84	0.242
64QAM	2595	38000	15	1	37	20.09	22.99	0.199
64QAM	2595	38000	15	1	74	19.97	22.87	0.194
64QAM	2595	38000	15	36	0	19.45	22.35	0.172
64QAM	2595	38000	15	36	29	19.23	22.13	0.163
64QAM	2595	38000	15	36	30	19.23	22.13	0.163
64QAM	2595	38000	15	75	0	19.31	22.21	0.166
64QAM	2612.5	38175	15	1	0	20.68	23.58	0.228
64QAM	2612.5	38175	15	1	37	20.84	23.74	0.237
64QAM	2612.5	38175	15	1	74	20.89	23.79	0.239
64QAM	2612.5	38175	15	36	0	19.14	22.04	0.160
64QAM	2612.5	38175	15	36	29	19.10	22.00	0.158
64QAM	2612.5	38175	15	36	30	19.11	22.01	0.159
64QAM	2612.5	38175	15	75	0	19.12	22.02	0.159

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2577.5	37825	15	1	0	22.90	25.80	0.380
QPSK	2577.5	37825	15	1	37	22.85	25.75	0.376
QPSK	2577.5	37825	15	1	74	22.63	25.53	0.357
QPSK	2577.5	37825	15	36	0	21.89	24.79	0.301
QPSK	2577.5	37825	15	36	29	21.78	24.68	0.294
QPSK	2577.5	37825	15	36	30	21.77	24.67	0.293
QPSK	2577.5	37825	15	75	0	21.89	24.79	0.301
QPSK	2595	38000	15	1	0	22.73	25.63	0.366
QPSK	2595	38000	15	1	37	22.47	25.37	0.344
QPSK	2595	38000	15	1	74	22.40	25.30	0.339
QPSK	2595	38000	15	36	0	21.66	24.56	0.286
QPSK	2595	38000	15	36	29	21.44	24.34	0.272
QPSK	2595	38000	15	36	30	21.44	24.34	0.272
QPSK	2595	38000	15	75	0	21.38	24.28	0.268
QPSK	2612.5	38175	15	1	0	22.61	25.51	0.356
QPSK	2612.5	38175	15	1	37	22.72	25.62	0.365
QPSK	2612.5	38175	15	1	74	22.63	25.53	0.357
QPSK	2612.5	38175	15	36	0	21.52	24.42	0.277
QPSK	2612.5	38175	15	36	29	21.62	24.52	0.283
QPSK	2612.5	38175	15	36	30	21.59	24.49	0.281
QPSK	2612.5	38175	15	75	0	21.55	24.45	0.279



Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	2580	37850	20	1	0	22.19	25.09	0.323
16QAM	2580	37850	20	1	49	22.15	25.05	0.320
16QAM	2580	37850	20	1	99	22.19	25.09	0.323
16QAM	2580	37850	20	50	0	21.17	24.07	0.255
16QAM	2580	37850	20	50	24	21.05	23.95	0.248
16QAM	2580	37850	20	50	50	20.98	23.88	0.244
16QAM	2580	37850	20	100	0	21.04	23.94	0.248
16QAM	2595	38000	20	1	0	21.90	24.80	0.302
16QAM	2595	38000	20	1	49	21.47	24.37	0.274
16QAM	2595	38000	20	1	99	21.58	24.48	0.281
16QAM	2595	38000	20	50	0	20.86	23.76	0.238
16QAM	2595	38000	20	50	24	20.63	23.53	0.225
16QAM	2595	38000	20	50	50	20.62	23.52	0.225
16QAM	2595	38000	20	100	0	20.46	23.36	0.217
16QAM	2610	38150	20	1	0	21.16	24.06	0.255
16QAM	2610	38150	20	1	49	21.31	24.21	0.264
16QAM	2610	38150	20	1	99	21.31	24.21	0.264
16QAM	2610	38150	20	50	0	20.56	23.46	0.222
16QAM	2610	38150	20	50	24	20.76	23.66	0.232
16QAM	2610	38150	20	50	50	20.72	23.62	0.230
16QAM	2610	38150	20	100	0	20.67	23.57	0.228
64QAM	2580	37850	20	1	0	21.68	24.58	0.287
64QAM	2580	37850	20	1	49	21.40	24.30	0.269
64QAM	2580	37850	20	1	99	21.45	24.35	0.272
64QAM	2580	37850	20	50	0	19.37	22.27	0.169
64QAM	2580	37850	20	50	24	19.27	22.17	0.165
64QAM	2580	37850	20	50	50	19.29	22.19	0.166
64QAM	2580	37850	20	100	0	19.33	22.23	0.167
64QAM	2595	38000	20	1	0	21.44	24.34	0.272
64QAM	2595	38000	20	1	49	20.83	23.73	0.236
64QAM	2595	38000	20	1	99	20.94	23.84	0.242
64QAM	2595	38000	20	50	0	19.25	22.15	0.164
64QAM	2595	38000	20	50	24	19.16	22.06	0.161
64QAM	2595	38000	20	50	50	19.28	22.18	0.165
64QAM	2595	38000	20	100	0	19.27	22.17	0.165
64QAM	2610	38150	20	1	0	20.54	23.44	0.221
64QAM	2610	38150	20	1	49	20.68	23.58	0.228
64QAM	2610	38150	20	1	99	20.90	23.80	0.240
64QAM	2610	38150	20	50	0	19.21	22.11	0.163
64QAM	2610	38150	20	50	24	19.24	22.14	0.164
64QAM	2610	38150	20	50	50	19.46	22.36	0.172
64QAM	2610	38150	20	100	0	19.30	22.20	0.166

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2580	37850	20	1	0	22.90	25.80	0.380
QPSK	2580	37850	20	1	49	22.84	25.74	0.375
QPSK	2580	37850	20	1	99	22.74	25.64	0.366
QPSK	2580	37850	20	50	0	21.79	24.69	0.294
QPSK	2580	37850	20	50	24	21.81	24.71	0.296
QPSK	2580	37850	20	50	50	21.71	24.61	0.289
QPSK	2580	37850	20	100	0	21.74	24.64	0.291
QPSK	2595	38000	20	1	0	22.95	25.85	0.385
QPSK	2595	38000	20	1	49	22.70	25.60	0.363
QPSK	2595	38000	20	1	99	22.60	25.50	0.355
QPSK	2595	38000	20	50	0	21.60	24.50	0.282
QPSK	2595	38000	20	50	24	21.51	24.41	0.276
QPSK	2595	38000	20	50	50	21.49	24.39	0.275
QPSK	2595	38000	20	100	0	21.47	24.37	0.274
QPSK	2610	38150	20	1	0	22.41	25.31	0.340
QPSK	2610	38150	20	1	49	22.54	25.44	0.350
QPSK	2610	38150	20	1	99	22.66	25.56	0.360
QPSK	2610	38150	20	50	0	21.36	24.26	0.267
QPSK	2610	38150	20	50	24	21.50	24.40	0.275
QPSK	2610	38150	20	50	50	21.55	24.45	0.279
QPSK	2610	38150	20	100	0	21.50	24.40	0.275