

Fig.63



Fig.64

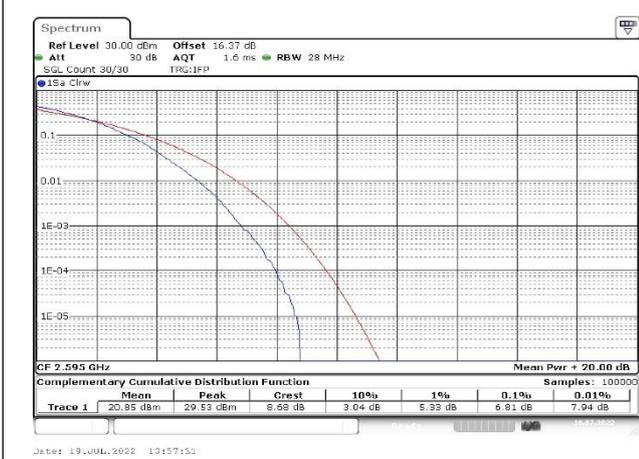


Fig.65

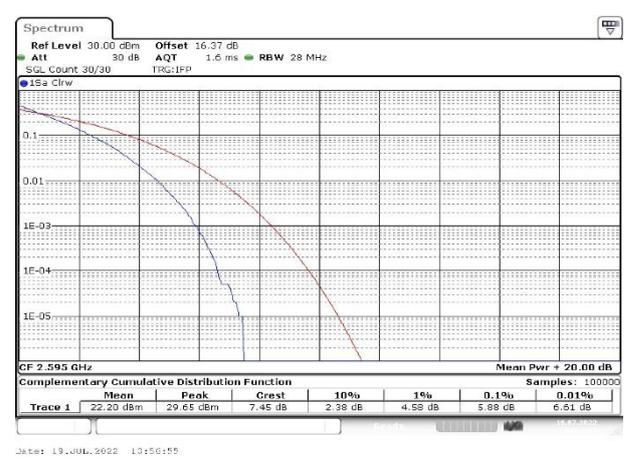


Fig.66

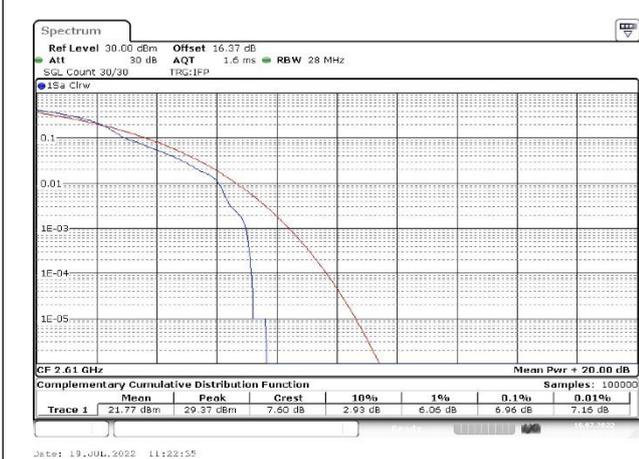


Fig.67

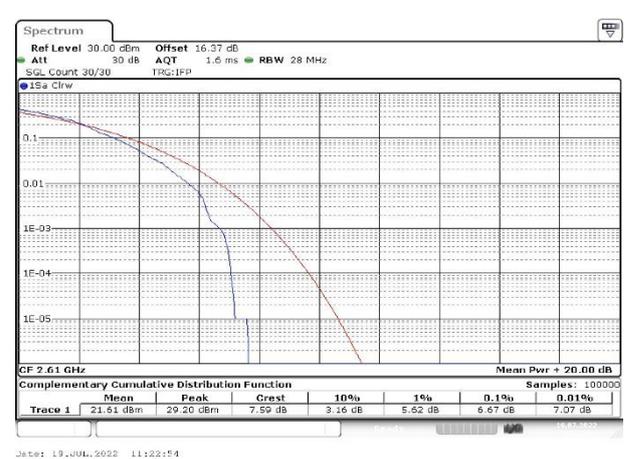


Fig.68

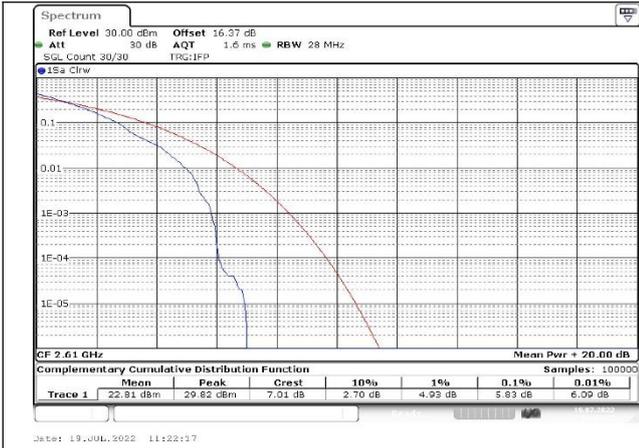


Fig.69



Fig.70

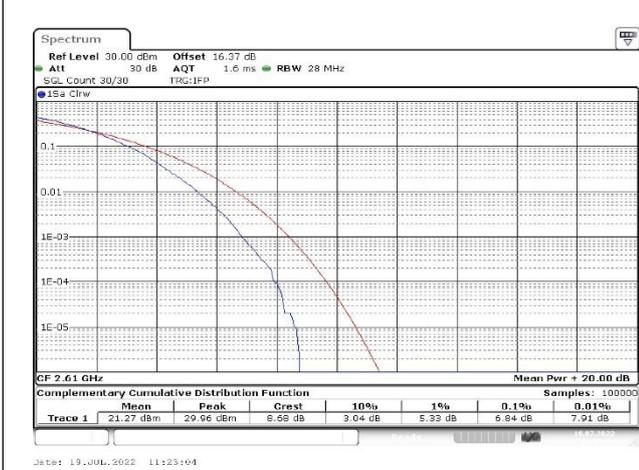


Fig.71

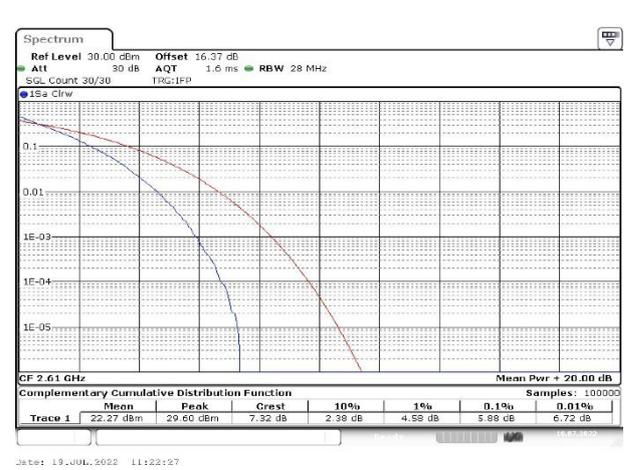


Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
38	2580	37850	20	1	0	Fig.1
38	2595	38000	20	1	0	Fig.2
38	2610	38150	20	1	0	Fig.3

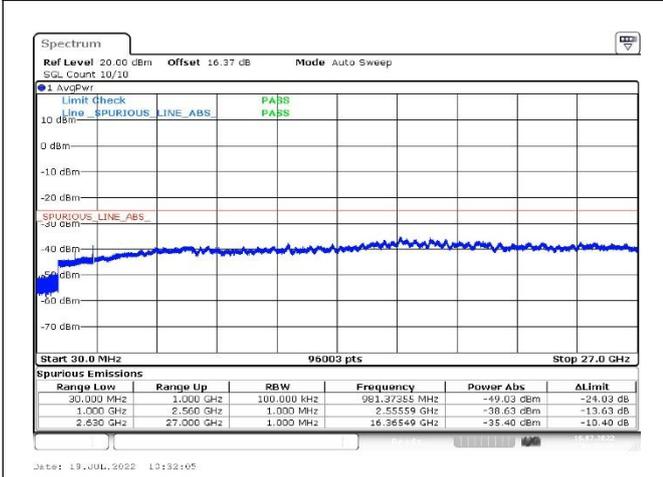


Fig.1

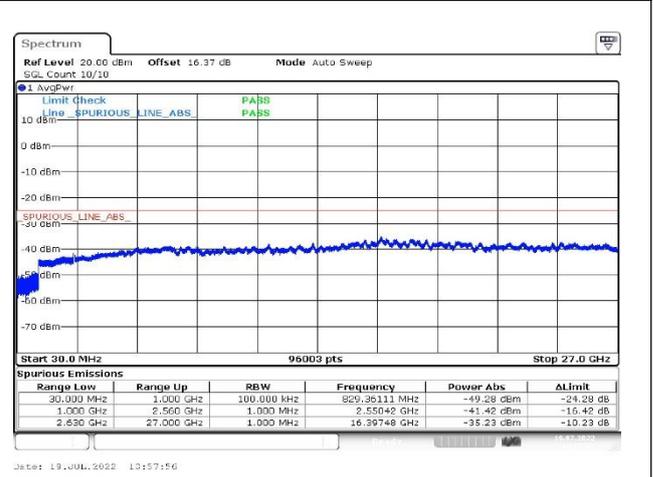


Fig.2

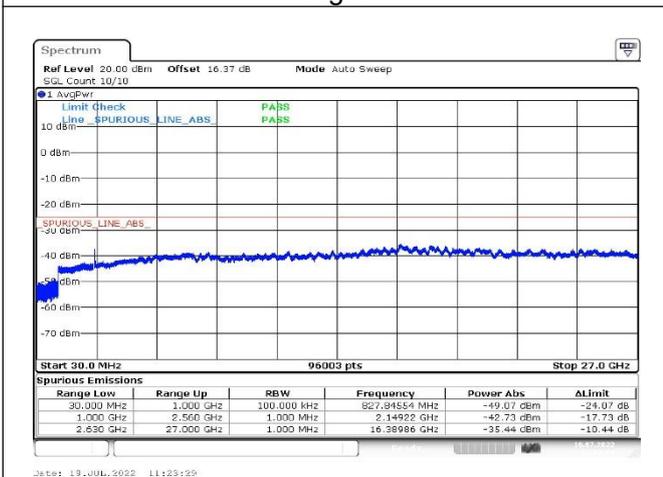


Fig.3

6 Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
38	QPSK	2572.5	37775	5	1	0	Fig.1
38	QPSK	2572.5	37775	5	25	0	Fig.2
38	QPSK	2617.5	38225	5	1	24	Fig.3
38	QPSK	2617.5	38225	5	25	0	Fig.4
38	QPSK	2575	37800	10	1	0	Fig.5
38	QPSK	2575	37800	10	50	0	Fig.6
38	QPSK	2615	38200	10	1	49	Fig.7
38	QPSK	2615	38200	10	50	0	Fig.8
38	QPSK	2577.5	37825	15	1	0	Fig.9
38	QPSK	2577.5	37825	15	75	0	Fig.10
38	QPSK	2612.5	38175	15	1	74	Fig.11
38	QPSK	2612.5	38175	15	75	0	Fig.12
38	QPSK	2580	37850	20	1	0	Fig.13
38	QPSK	2580	37850	20	100	0	Fig.14
38	QPSK	2610	38150	20	1	99	Fig.15
38	QPSK	2610	38150	20	100	0	Fig.16

Test Mode: QPSK

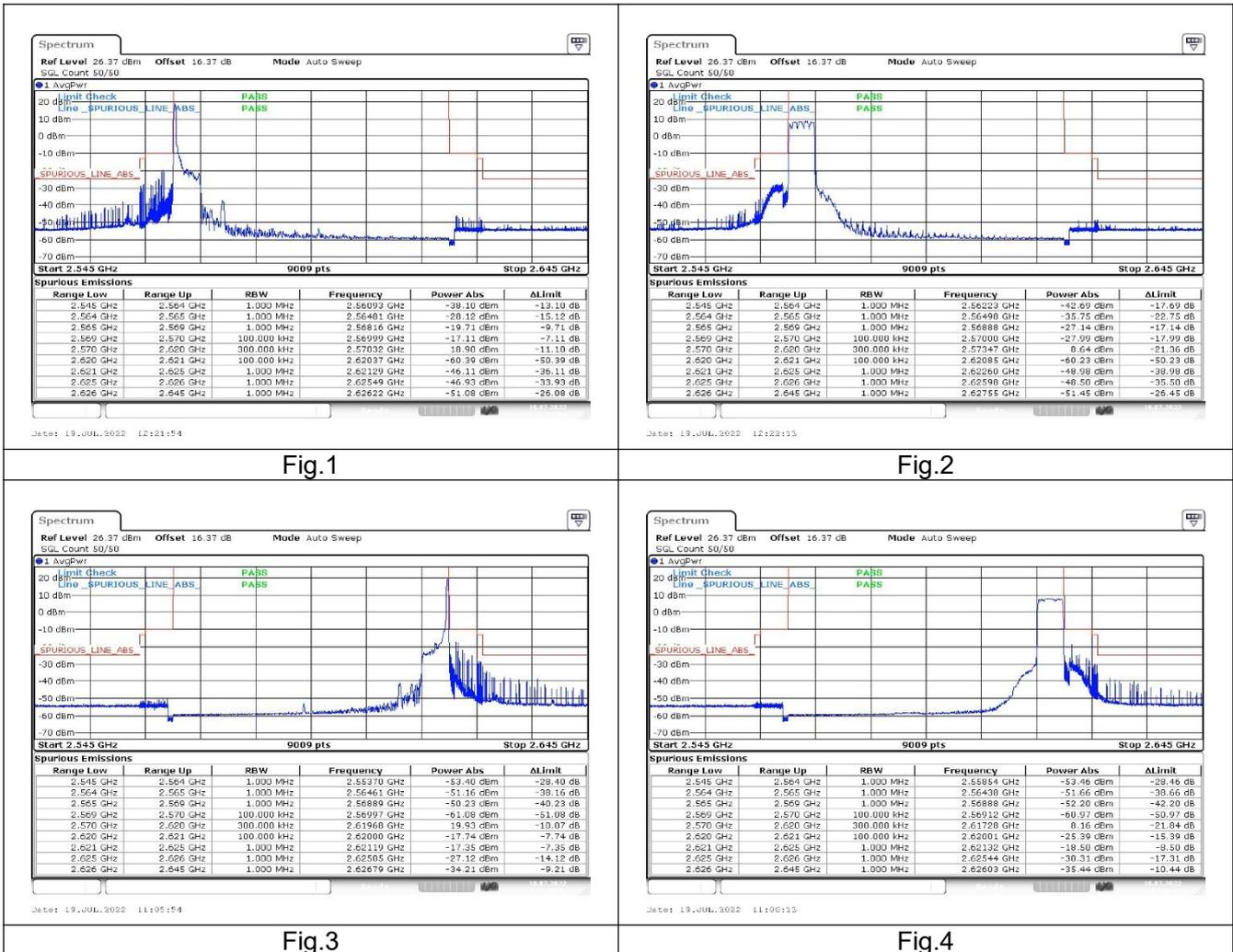




Fig.5

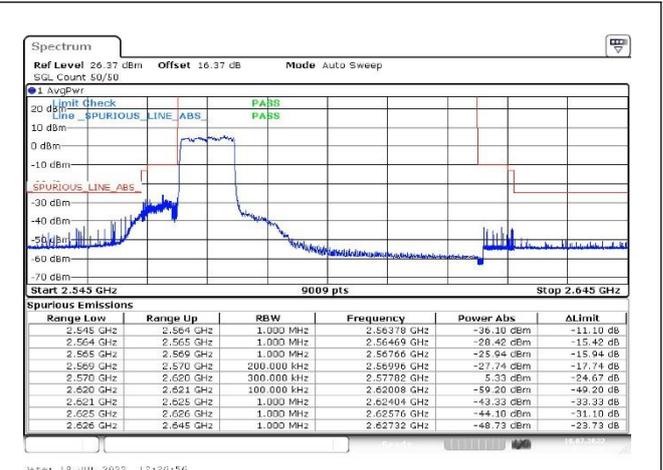


Fig.6

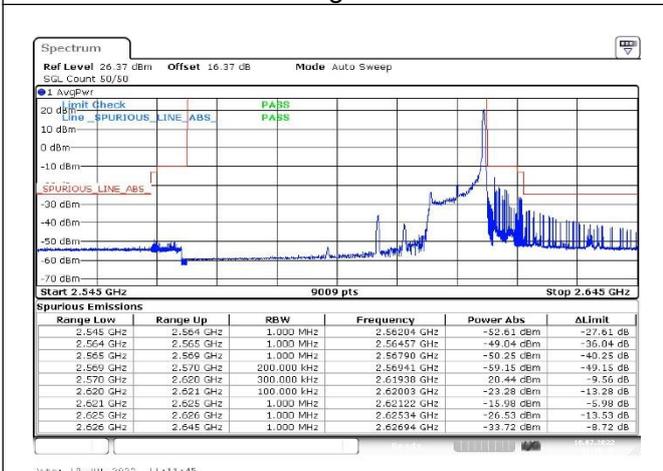


Fig.7



Fig.8

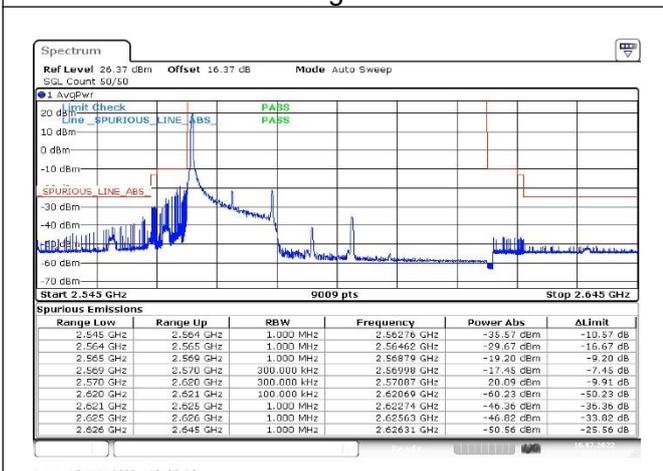


Fig.9

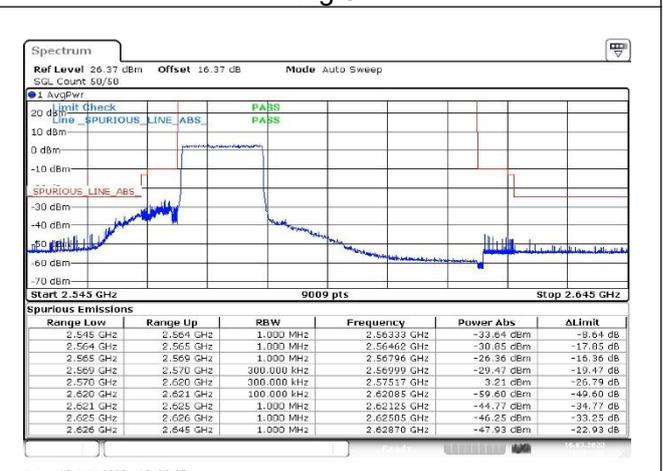


Fig.10

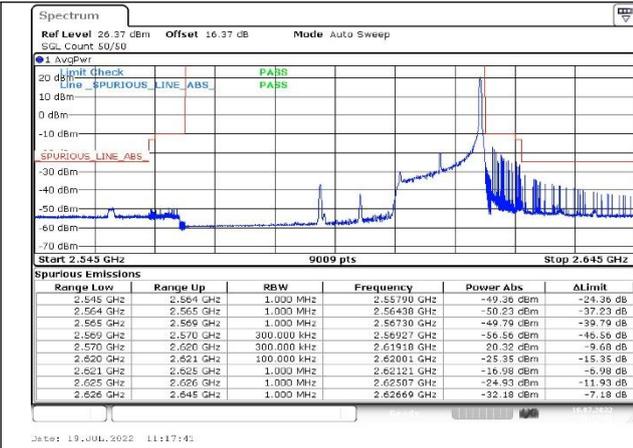


Fig.11



Fig.12

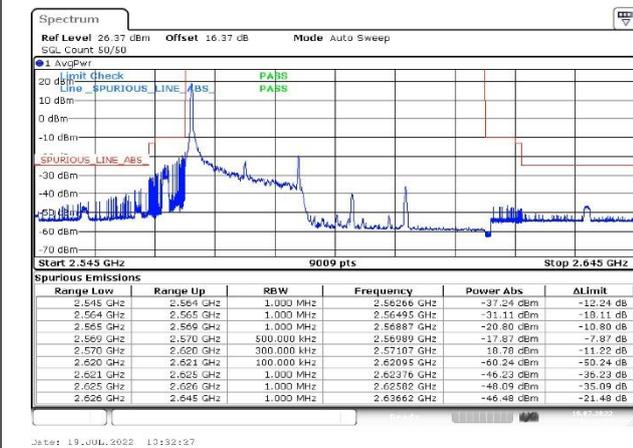


Fig.13

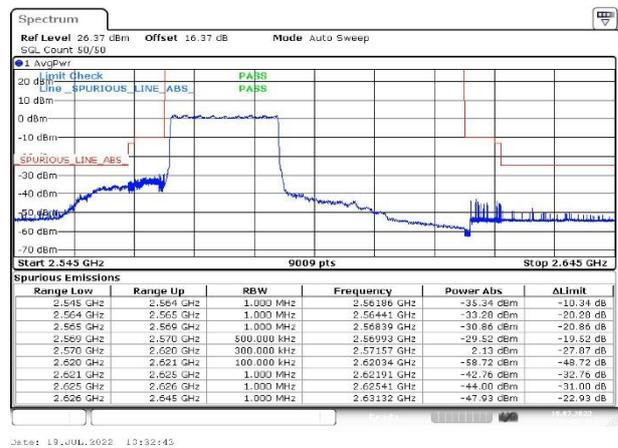


Fig.14

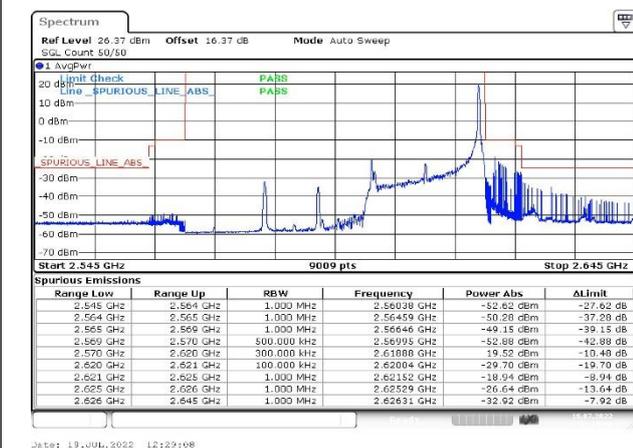


Fig.15

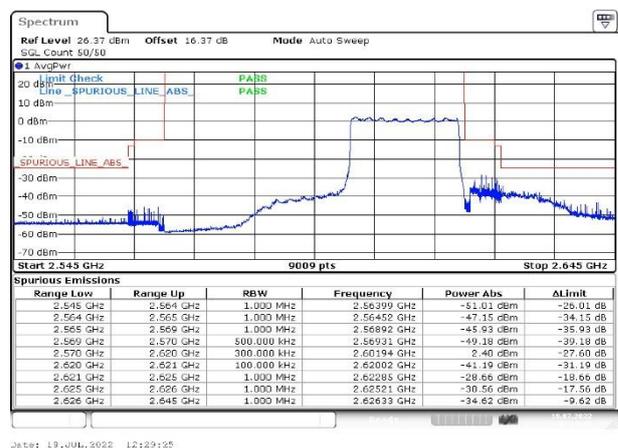


Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 38 Low Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.014	0.012	0.007	0.012
0	NV	0.016	0.009	-0.009	-0.025
+10	NV	0.018	0.014	0.017	0.009
+30	NV	-0.012	0.005	0.005	-0.004
+40	NV	0.007	-0.010	-0.005	-0.017
+55	NV	0.006	-0.017	0.013	-0.008
+20	LV	-0.018	-0.010	-0.007	0.004
+20	HV	0.012	0.009	0.014	0.019

Temperature(°C)	Voltage	Test Result (ppm) Band 38 High Channel QPSK			
		5M	10M	15M	20M
-10	NV	0.010	-0.020	-0.018	0.005
0	NV	0.013	-0.013	-0.014	-0.003
+10	NV	-0.005	0.004	-0.007	0.009
+30	NV	0.003	0.010	0.012	-0.004
+40	NV	-0.014	0.010	-0.010	-0.009
+55	NV	0.015	0.016	0.013	-0.011
+20	LV	-0.015	0.004	-0.005	-0.011
+20	HV	0.007	-0.007	-0.007	-0.009

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	23.28	20.18	0.104
16QAM	2572.5	37775	5	1	12	23.33	20.23	0.105
16QAM	2572.5	37775	5	1	24	23.34	20.24	0.106
16QAM	2572.5	37775	5	12	0	22.04	18.94	0.078
16QAM	2572.5	37775	5	12	7	22.05	18.95	0.079
16QAM	2572.5	37775	5	12	13	22.07	18.97	0.079
16QAM	2572.5	37775	5	25	0	22.36	19.26	0.084
16QAM	2595	38000	5	1	0	23.62	20.52	0.113
16QAM	2595	38000	5	1	12	23.59	20.49	0.112
16QAM	2595	38000	5	1	24	23.64	20.54	0.113
16QAM	2595	38000	5	12	0	21.99	18.89	0.077
16QAM	2595	38000	5	12	7	21.76	18.66	0.073
16QAM	2595	38000	5	12	13	21.93	18.83	0.076
16QAM	2595	38000	5	25	0	22.13	19.03	0.080
16QAM	2617.5	38225	5	1	0	23.46	20.36	0.109
16QAM	2617.5	38225	5	1	12	23.80	20.70	0.117
16QAM	2617.5	38225	5	1	24	23.76	20.66	0.116
16QAM	2617.5	38225	5	12	0	22.20	19.10	0.081
16QAM	2617.5	38225	5	12	7	22.24	19.14	0.082
16QAM	2617.5	38225	5	12	13	22.27	19.17	0.083
16QAM	2617.5	38225	5	25	0	22.54	19.44	0.088
64QAM	2572.5	37775	5	1	0	21.61	18.51	0.071
64QAM	2572.5	37775	5	1	12	21.67	18.57	0.072
64QAM	2572.5	37775	5	1	24	21.59	18.49	0.071
64QAM	2572.5	37775	5	12	0	21.00	17.90	0.062
64QAM	2572.5	37775	5	12	7	21.18	18.08	0.064
64QAM	2572.5	37775	5	12	13	21.04	17.94	0.062
64QAM	2572.5	37775	5	25	0	21.12	18.02	0.063
64QAM	2595	38000	5	1	0	21.80	18.70	0.074
64QAM	2595	38000	5	1	12	21.75	18.65	0.073
64QAM	2595	38000	5	1	24	22.05	18.95	0.079
64QAM	2595	38000	5	12	0	20.94	17.84	0.061
64QAM	2595	38000	5	12	7	21.06	17.96	0.063
64QAM	2595	38000	5	12	13	20.87	17.77	0.060
64QAM	2595	38000	5	25	0	21.01	17.91	0.062
64QAM	2617.5	38225	5	1	0	21.75	18.65	0.073
64QAM	2617.5	38225	5	1	12	21.83	18.73	0.075
64QAM	2617.5	38225	5	1	24	21.96	18.86	0.077
64QAM	2617.5	38225	5	12	0	21.50	18.40	0.069
64QAM	2617.5	38225	5	12	7	21.63	18.53	0.071
64QAM	2617.5	38225	5	12	13	21.44	18.34	0.068
64QAM	2617.5	38225	5	25	0	21.57	18.47	0.070

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	23.92	20.82	0.121
QPSK	2572.5	37775	5	1	12	23.81	20.71	0.118
QPSK	2572.5	37775	5	1	24	23.80	20.70	0.117
QPSK	2572.5	37775	5	12	0	23.13	20.03	0.101
QPSK	2572.5	37775	5	12	7	23.13	20.03	0.101
QPSK	2572.5	37775	5	12	13	23.13	20.03	0.101
QPSK	2572.5	37775	5	25	0	23.12	20.02	0.100
QPSK	2595	38000	5	1	0	23.61	20.51	0.112
QPSK	2595	38000	5	1	12	23.80	20.70	0.117
QPSK	2595	38000	5	1	24	23.83	20.73	0.118
QPSK	2595	38000	5	12	0	23.24	20.14	0.103
QPSK	2595	38000	5	12	7	23.01	19.91	0.098
QPSK	2595	38000	5	12	13	22.96	19.86	0.097
QPSK	2595	38000	5	25	0	23.01	19.91	0.098
QPSK	2617.5	38225	5	1	0	24.02	20.92	0.124
QPSK	2617.5	38225	5	1	12	24.03	20.93	0.124
QPSK	2617.5	38225	5	1	24	24.15	21.05	0.127
QPSK	2617.5	38225	5	12	0	23.28	20.18	0.104
QPSK	2617.5	38225	5	12	7	23.39	20.29	0.107
QPSK	2617.5	38225	5	12	13	23.38	20.28	0.107
QPSK	2617.5	38225	5	25	0	23.40	20.30	0.107

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	23.17	20.07	0.102
16QAM	2575	37800	10	1	25	22.77	19.67	0.093
16QAM	2575	37800	10	1	49	22.98	19.88	0.097
16QAM	2575	37800	10	25	0	22.15	19.05	0.080
16QAM	2575	37800	10	25	12	22.03	18.93	0.078
16QAM	2575	37800	10	25	25	22.04	18.94	0.078
16QAM	2575	37800	10	50	0	21.76	18.66	0.073
16QAM	2595	38000	10	1	0	23.66	20.56	0.114
16QAM	2595	38000	10	1	25	22.59	19.49	0.089
16QAM	2595	38000	10	1	49	22.81	19.71	0.094
16QAM	2595	38000	10	25	0	22.06	18.96	0.079
16QAM	2595	38000	10	25	12	21.91	18.81	0.076
16QAM	2595	38000	10	25	25	22.02	18.92	0.078
16QAM	2595	38000	10	50	0	21.65	18.55	0.072
16QAM	2615	38200	10	1	0	23.25	20.15	0.104
16QAM	2615	38200	10	1	25	23.06	19.96	0.099
16QAM	2615	38200	10	1	49	23.18	20.08	0.102
16QAM	2615	38200	10	25	0	22.23	19.13	0.082
16QAM	2615	38200	10	25	12	22.35	19.25	0.084
16QAM	2615	38200	10	25	25	22.37	19.27	0.085
16QAM	2615	38200	10	50	0	21.98	18.88	0.077
64QAM	2575	37800	10	1	0	23.05	19.95	0.099
64QAM	2575	37800	10	1	25	22.93	19.83	0.096
64QAM	2575	37800	10	1	49	22.94	19.84	0.096
64QAM	2575	37800	10	25	0	20.91	17.81	0.060
64QAM	2575	37800	10	25	12	21.06	17.96	0.063
64QAM	2575	37800	10	25	25	21.25	18.15	0.065
64QAM	2575	37800	10	50	0	21.13	18.03	0.064
64QAM	2595	38000	10	1	0	22.96	19.86	0.097
64QAM	2595	38000	10	1	25	22.78	19.68	0.093
64QAM	2595	38000	10	1	49	22.99	19.89	0.097
64QAM	2595	38000	10	25	0	21.03	17.93	0.062
64QAM	2595	38000	10	25	12	21.08	17.98	0.063
64QAM	2595	38000	10	25	25	21.17	18.07	0.064
64QAM	2595	38000	10	50	0	21.15	18.05	0.064
64QAM	2615	38200	10	1	0	22.55	19.45	0.088
64QAM	2615	38200	10	1	25	22.69	19.59	0.091
64QAM	2615	38200	10	1	49	22.85	19.75	0.094
64QAM	2615	38200	10	25	0	21.65	18.55	0.072
64QAM	2615	38200	10	25	12	21.69	18.59	0.072
64QAM	2615	38200	10	25	25	21.79	18.69	0.074
64QAM	2615	38200	10	50	0	21.77	18.67	0.074

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	23.94	20.84	0.121
QPSK	2575	37800	10	1	25	23.89	20.79	0.120
QPSK	2575	37800	10	1	49	23.89	20.79	0.120
QPSK	2575	37800	10	25	0	23.09	19.99	0.100
QPSK	2575	37800	10	25	12	23.09	19.99	0.100
QPSK	2575	37800	10	25	25	23.16	20.06	0.101
QPSK	2575	37800	10	50	0	22.74	19.64	0.092
QPSK	2595	38000	10	1	0	23.65	20.55	0.114
QPSK	2595	38000	10	1	25	23.59	20.49	0.112
QPSK	2595	38000	10	1	49	23.73	20.63	0.116
QPSK	2595	38000	10	25	0	22.96	19.86	0.097
QPSK	2595	38000	10	25	12	22.98	19.88	0.097
QPSK	2595	38000	10	25	25	23.09	19.99	0.100
QPSK	2595	38000	10	50	0	22.64	19.54	0.090
QPSK	2615	38200	10	1	0	23.83	20.73	0.118
QPSK	2615	38200	10	1	25	23.96	20.86	0.122
QPSK	2615	38200	10	1	49	24.13	21.03	0.127
QPSK	2615	38200	10	25	0	23.23	20.13	0.103
QPSK	2615	38200	10	25	12	23.35	20.25	0.106
QPSK	2615	38200	10	25	25	23.37	20.27	0.106
QPSK	2615	38200	10	50	0	22.92	19.82	0.096

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	23.14	20.04	0.101
16QAM	2577.5	37825	15	1	37	22.72	19.62	0.092
16QAM	2577.5	37825	15	1	74	22.72	19.62	0.092
16QAM	2577.5	37825	15	36	0	22.19	19.09	0.081
16QAM	2577.5	37825	15	36	29	22.22	19.12	0.082
16QAM	2577.5	37825	15	36	30	22.22	19.12	0.082
16QAM	2577.5	37825	15	75	0	21.73	18.63	0.073
16QAM	2595	38000	15	1	0	23.66	20.56	0.114
16QAM	2595	38000	15	1	37	22.53	19.43	0.088
16QAM	2595	38000	15	1	74	22.57	19.47	0.089
16QAM	2595	38000	15	36	0	22.20	19.10	0.081
16QAM	2595	38000	15	36	29	22.26	19.16	0.082
16QAM	2595	38000	15	36	30	22.26	19.16	0.082
16QAM	2595	38000	15	75	0	21.62	18.52	0.071
16QAM	2612.5	38175	15	1	0	23.24	20.14	0.103
16QAM	2612.5	38175	15	1	37	22.87	19.77	0.095
16QAM	2612.5	38175	15	1	74	23.17	20.07	0.102
16QAM	2612.5	38175	15	36	0	22.42	19.32	0.086
16QAM	2612.5	38175	15	36	29	22.48	19.38	0.087
16QAM	2612.5	38175	15	36	30	22.48	19.38	0.087
16QAM	2612.5	38175	15	75	0	21.94	18.84	0.077
64QAM	2577.5	37825	15	1	0	22.99	19.89	0.097
64QAM	2577.5	37825	15	1	37	22.93	19.83	0.096
64QAM	2577.5	37825	15	1	74	22.90	19.80	0.095
64QAM	2577.5	37825	15	36	0	21.06	17.96	0.063
64QAM	2577.5	37825	15	36	29	21.10	18.00	0.063
64QAM	2577.5	37825	15	36	30	21.11	18.01	0.063
64QAM	2577.5	37825	15	75	0	21.12	18.02	0.063
64QAM	2595	38000	15	1	0	22.99	19.89	0.097
64QAM	2595	38000	15	1	37	22.73	19.63	0.092
64QAM	2595	38000	15	1	74	23.10	20.00	0.100
64QAM	2595	38000	15	36	0	21.19	18.09	0.064
64QAM	2595	38000	15	36	29	21.02	17.92	0.062
64QAM	2595	38000	15	36	30	21.03	17.93	0.062
64QAM	2595	38000	15	75	0	21.14	18.04	0.064
64QAM	2612.5	38175	15	1	0	22.52	19.42	0.087
64QAM	2612.5	38175	15	1	37	22.51	19.41	0.087
64QAM	2612.5	38175	15	1	74	22.90	19.80	0.095
64QAM	2612.5	38175	15	36	0	21.58	18.48	0.070
64QAM	2612.5	38175	15	36	29	21.42	18.32	0.068
64QAM	2612.5	38175	15	36	30	21.42	18.32	0.068
64QAM	2612.5	38175	15	75	0	21.51	18.41	0.069

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	23.84	20.74	0.119
QPSK	2577.5	37825	15	1	37	23.76	20.66	0.116
QPSK	2577.5	37825	15	1	74	23.91	20.81	0.121
QPSK	2577.5	37825	15	36	0	23.09	19.99	0.100
QPSK	2577.5	37825	15	36	29	23.11	20.01	0.100
QPSK	2577.5	37825	15	36	30	23.12	20.02	0.100
QPSK	2577.5	37825	15	75	0	22.74	19.64	0.092
QPSK	2595	38000	15	1	0	23.74	20.64	0.116
QPSK	2595	38000	15	1	37	23.70	20.60	0.115
QPSK	2595	38000	15	1	74	23.83	20.73	0.118
QPSK	2595	38000	15	36	0	23.09	19.99	0.100
QPSK	2595	38000	15	36	29	23.07	19.97	0.099
QPSK	2595	38000	15	36	30	23.07	19.97	0.099
QPSK	2595	38000	15	75	0	22.64	19.54	0.090
QPSK	2612.5	38175	15	1	0	23.92	20.82	0.121
QPSK	2612.5	38175	15	1	37	23.81	20.71	0.118
QPSK	2612.5	38175	15	1	74	24.06	20.96	0.125
QPSK	2612.5	38175	15	36	0	23.28	20.18	0.104
QPSK	2612.5	38175	15	36	29	23.30	20.20	0.105
QPSK	2612.5	38175	15	36	30	23.29	20.19	0.104
QPSK	2612.5	38175	15	75	0	22.82	19.72	0.094

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	23.38	20.28	0.107
16QAM	2580	37850	20	1	49	23.69	20.59	0.115
16QAM	2580	37850	20	1	99	23.55	20.45	0.111
16QAM	2580	37850	20	50	0	22.21	19.11	0.081
16QAM	2580	37850	20	50	24	22.27	19.17	0.083
16QAM	2580	37850	20	50	50	22.20	19.10	0.081
16QAM	2580	37850	20	100	0	21.77	18.67	0.074
16QAM	2595	38000	20	1	0	23.01	19.91	0.098
16QAM	2595	38000	20	1	49	22.62	19.52	0.090
16QAM	2595	38000	20	1	99	22.60	19.50	0.089
16QAM	2595	38000	20	50	0	22.27	19.17	0.083
16QAM	2595	38000	20	50	24	22.10	19.00	0.079
16QAM	2595	38000	20	50	50	22.22	19.12	0.082
16QAM	2595	38000	20	100	0	21.62	18.52	0.071
16QAM	2610	38150	20	1	0	22.92	19.82	0.096
16QAM	2610	38150	20	1	49	22.77	19.67	0.093
16QAM	2610	38150	20	1	99	23.11	20.01	0.100
16QAM	2610	38150	20	50	0	22.29	19.19	0.083
16QAM	2610	38150	20	50	24	22.26	19.16	0.082
16QAM	2610	38150	20	50	50	22.52	19.42	0.087
16QAM	2610	38150	20	100	0	21.93	18.83	0.076
64QAM	2580	37850	20	1	0	22.39	19.29	0.085
64QAM	2580	37850	20	1	49	22.90	19.80	0.095
64QAM	2580	37850	20	1	99	22.38	19.28	0.085
64QAM	2580	37850	20	50	0	21.29	18.19	0.066
64QAM	2580	37850	20	50	24	21.20	18.10	0.065
64QAM	2580	37850	20	50	50	21.29	18.19	0.066
64QAM	2580	37850	20	100	0	21.28	18.18	0.066
64QAM	2595	38000	20	1	0	22.09	18.99	0.079
64QAM	2595	38000	20	1	49	21.99	18.89	0.077
64QAM	2595	38000	20	1	99	22.19	19.09	0.081
64QAM	2595	38000	20	50	0	21.48	18.38	0.069
64QAM	2595	38000	20	50	24	21.18	18.08	0.064
64QAM	2595	38000	20	50	50	21.27	18.17	0.066
64QAM	2595	38000	20	100	0	21.36	18.26	0.067
64QAM	2610	38150	20	1	0	22.45	19.35	0.086
64QAM	2610	38150	20	1	49	22.67	19.57	0.091
64QAM	2610	38150	20	1	99	22.95	19.85	0.097
64QAM	2610	38150	20	50	0	22.00	18.90	0.078
64QAM	2610	38150	20	50	24	21.65	18.55	0.072
64QAM	2610	38150	20	50	50	21.74	18.64	0.073
64QAM	2610	38150	20	100	0	21.87	18.77	0.075

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	23.76	20.66	0.116
QPSK	2580	37850	20	1	49	23.80	20.70	0.117
QPSK	2580	37850	20	1	99	23.76	20.66	0.116
QPSK	2580	37850	20	50	0	23.30	20.20	0.105
QPSK	2580	37850	20	50	24	23.32	20.22	0.105
QPSK	2580	37850	20	50	50	23.16	20.06	0.101
QPSK	2580	37850	20	100	0	22.78	19.68	0.093
QPSK	2595	38000	20	1	0	23.67	20.57	0.114
QPSK	2595	38000	20	1	49	23.67	20.57	0.114
QPSK	2595	38000	20	1	99	23.72	20.62	0.115
QPSK	2595	38000	20	50	0	22.99	19.89	0.097
QPSK	2595	38000	20	50	24	22.90	19.80	0.095
QPSK	2595	38000	20	50	50	23.15	20.05	0.101
QPSK	2595	38000	20	100	0	22.67	19.57	0.091
QPSK	2610	38150	20	1	0	23.78	20.68	0.117
QPSK	2610	38150	20	1	49	23.76	20.66	0.116
QPSK	2610	38150	20	1	99	24.00	20.90	0.123
QPSK	2610	38150	20	50	0	23.12	20.02	0.100
QPSK	2610	38150	20	50	24	23.11	20.01	0.100
QPSK	2610	38150	20	50	50	23.20	20.10	0.102
QPSK	2610	38150	20	100	0	22.83	19.73	0.094