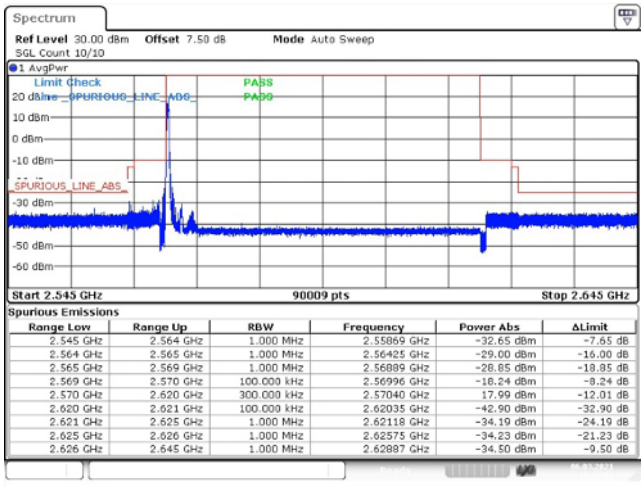

Fig.1

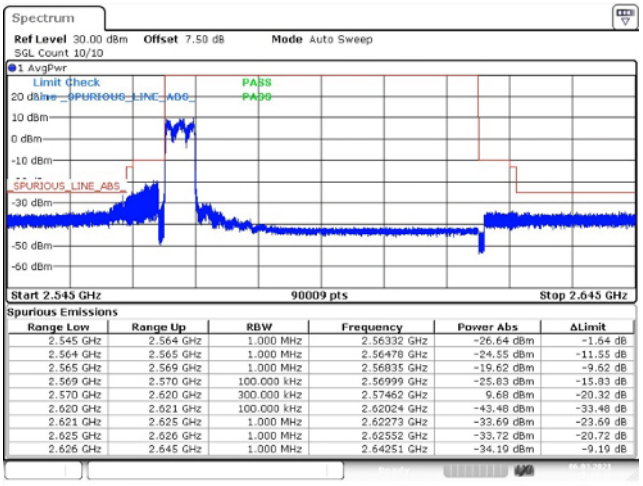

Fig.2

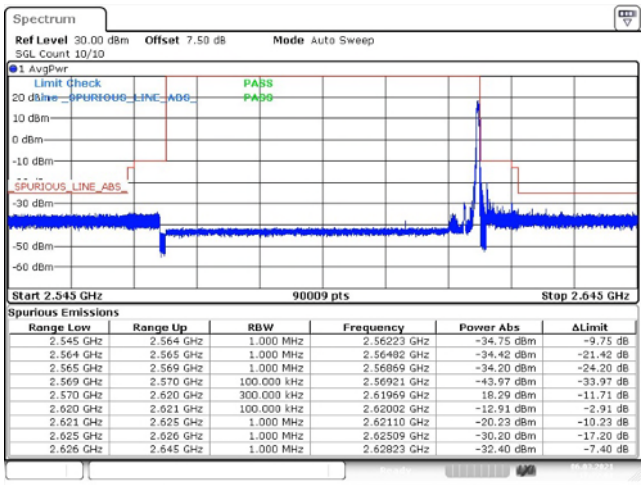

Fig.3

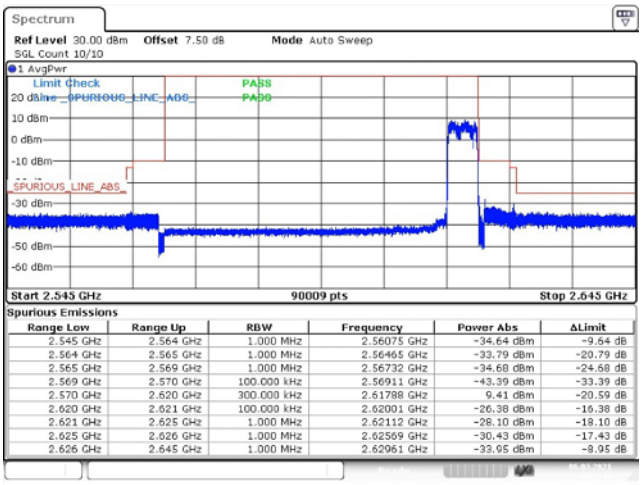

Fig.4

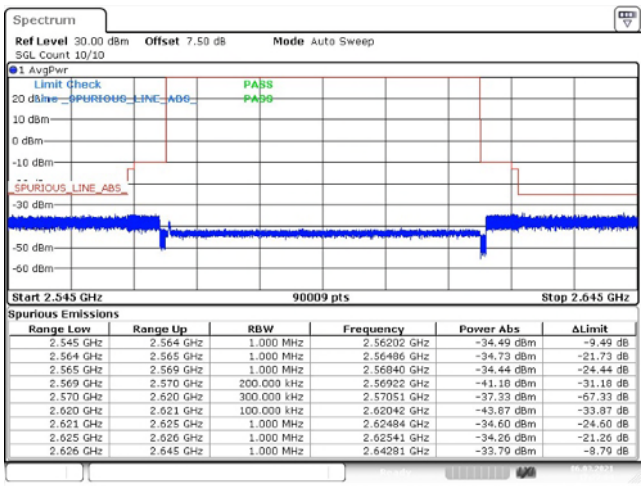

Fig.5

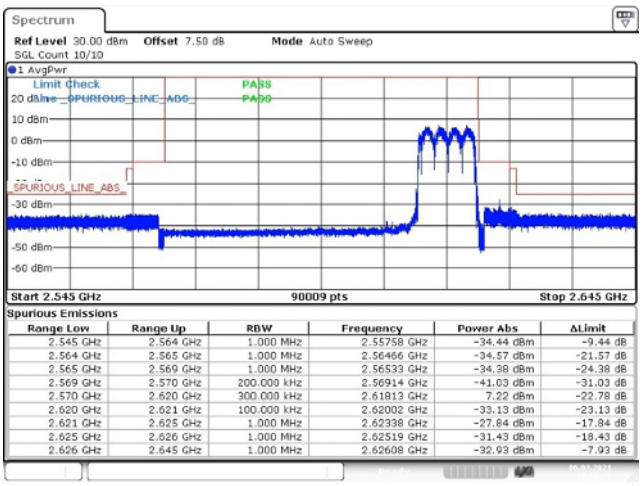

Fig.6

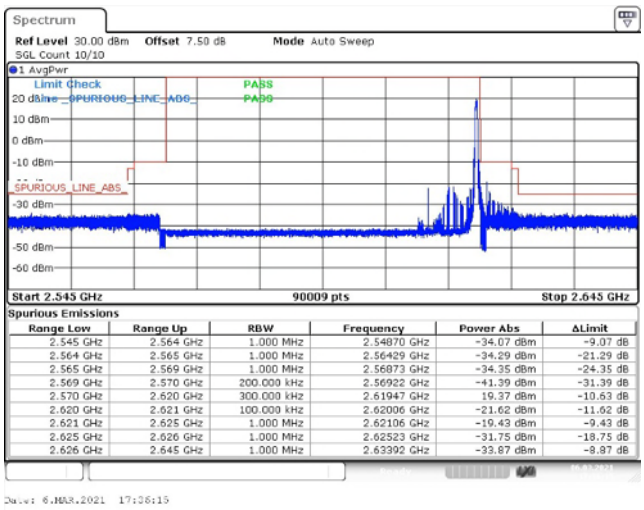

Fig.7

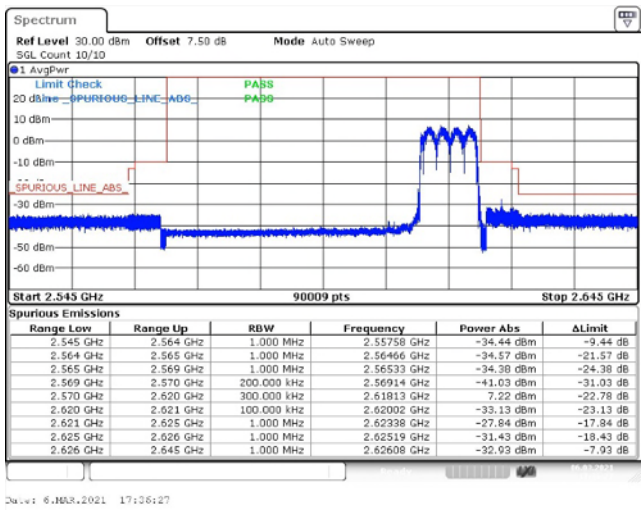

Fig.8

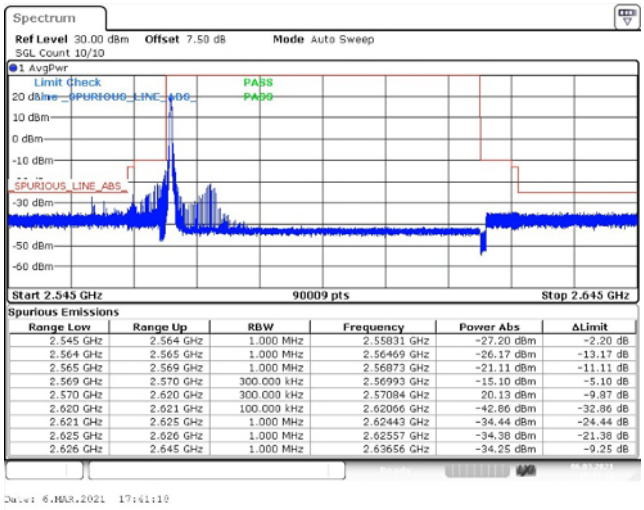

Fig.9

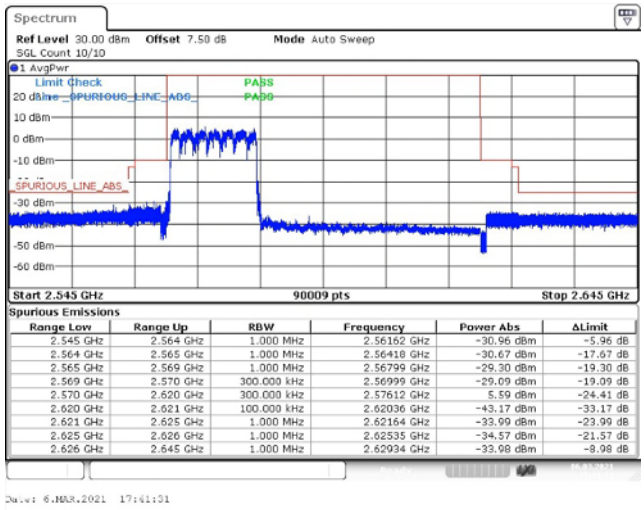

Fig.10

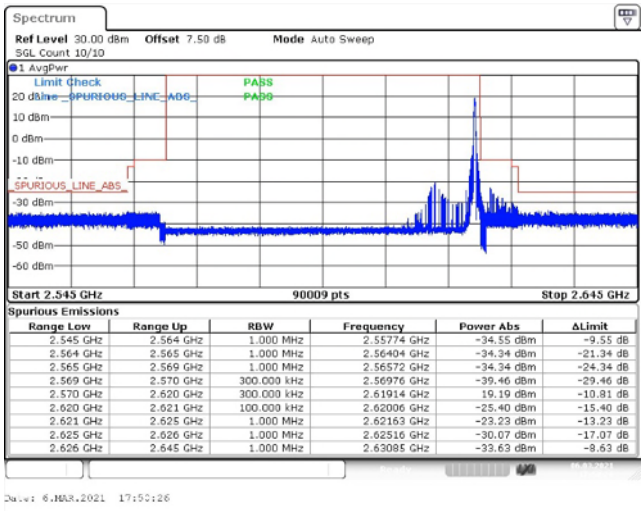

Fig.11

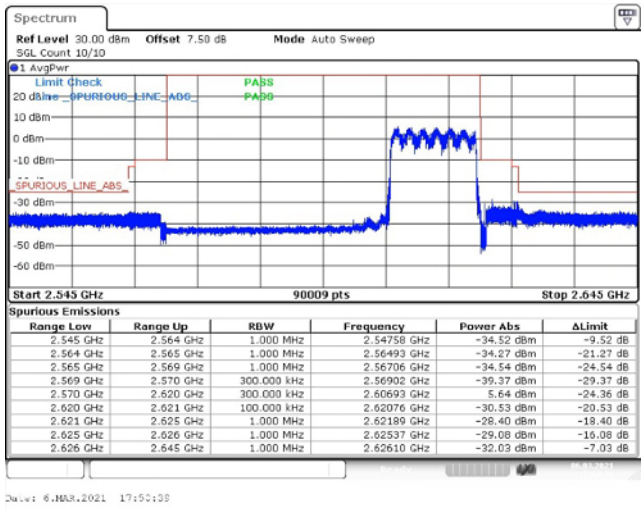

Fig.12

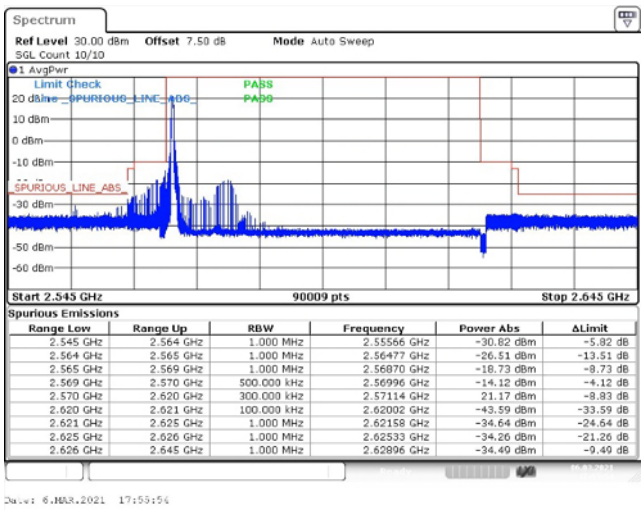

Fig.13

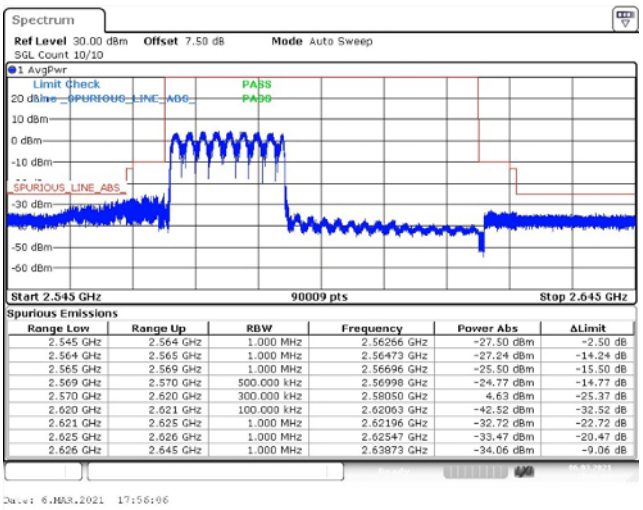

Fig.14

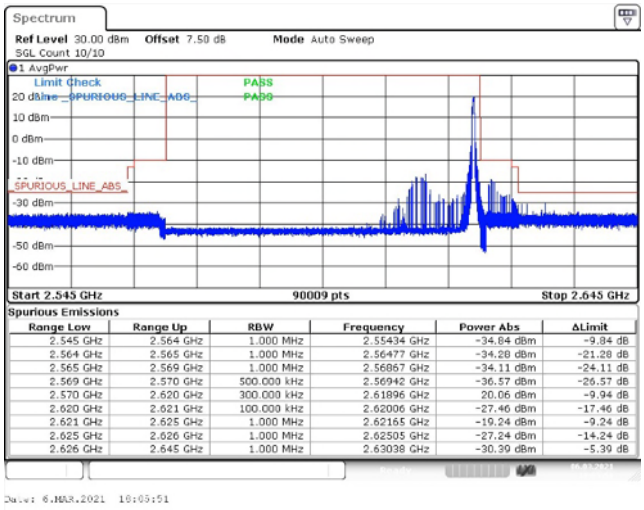

Fig.15

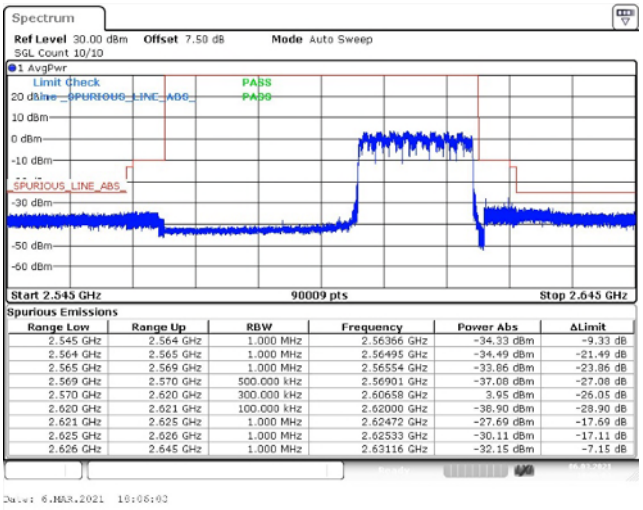

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band38 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	---	---	-0.006	-0.002	-0.004	-0.003
-20	NV	---	---	-0.010	-0.003	-0.003	0.000
-10	NV	---	---	-0.003	-0.005	-0.002	0.000
0	NV	---	---	-0.010	-0.003	-0.003	0.000
+10	NV	---	---	-0.009	-0.004	0.000	-0.002
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	-0.011	-0.005	-0.002	-0.002
+40	NV	---	---	-0.010	0.000	0.001	-0.003
+50	NV	---	---	-0.010	-0.005	-0.004	-0.004
+20	LV	---	---	-0.003	-0.001	-0.001	0.000
+20	HV	---	---	-0.008	-0.005	-0.001	0.000

Temperature(°C)	Voltage	Test Result (ppm) Band38 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	---	---	-0.003	0.001	-0.002	0.002
-20	NV	---	---	-0.002	-0.005	-0.001	-0.006
-10	NV	---	---	-0.005	-0.001	-0.005	-0.004
0	NV	---	---	-0.002	-0.005	-0.001	-0.006
+10	NV	---	---	-0.001	-0.004	-0.001	-0.005
+20	NV	---	---	0.000	0.000	0.000	0.000
+30	NV	---	---	-0.006	-0.003	-0.005	-0.001
+40	NV	---	---	-0.004	0.001	-0.004	-0.002
+50	NV	---	---	-0.001	-0.005	-0.004	0.000
+20	LV	---	---	0.000	-0.003	-0.004	-0.003
+20	HV	---	---	-0.005	-0.002	0.000	-0.008

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	23.13	20.23	0.105
				1	12	23.06	20.16	0.104
				1	24	23.11	20.21	0.105
				12	0	22.09	19.19	0.083
				12	7	22.18	19.28	0.085
				12	13	22.21	19.31	0.085
				25	0	21.15	18.25	0.067
	2595	38000		1	0	23.21	20.31	0.107
				1	12	23.04	20.14	0.103
				1	24	23.15	20.25	0.106
				12	0	22.12	19.22	0.084
				12	7	22.26	19.36	0.086
				12	13	22.23	19.33	0.086
				25	0	21.08	18.18	0.066
	2617.5	38225		1	0	23.20	20.30	0.107
				1	12	23.09	20.19	0.104
				1	24	23.09	20.19	0.104
				12	0	22.16	19.26	0.084
				12	7	22.14	19.24	0.084
				12	13	22.17	19.27	0.085
				25	0	21.15	18.25	0.067
16QAM	2572.5	37775		1	0	22.58	19.68	0.093
				1	12	22.58	19.68	0.093
				1	24	22.47	19.57	0.091
				12	0	21.11	18.21	0.066
				12	7	21.10	18.20	0.066
				12	13	21.09	18.19	0.066
				25	0	20.21	17.31	0.054
	2595	38000		1	0	22.57	19.67	0.093
				1	12	22.56	19.66	0.092
				1	24	22.48	19.58	0.091
				12	0	21.32	18.42	0.070
				12	7	21.29	18.39	0.069
				12	13	21.24	18.34	0.068
				25	0	20.18	17.28	0.053
	2617.5	38225		1	0	22.60	19.70	0.093
				1	12	22.59	19.69	0.093
				1	24	22.57	19.67	0.093
				12	0	21.34	18.44	0.070
				12	7	21.38	18.48	0.070
				12	13	21.29	18.39	0.069
				25	0	20.25	17.35	0.054

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2572.5	37775	5	1	0	21.11	18.21	0.066
				1	12	21.15	18.25	0.067
				1	24	21.08	18.18	0.066
				12	0	20.18	17.28	0.053
				12	7	20.12	17.22	0.053
				12	13	20.07	17.17	0.052
				25	0	19.07	16.17	0.041
	2595	38000		1	0	21.63	18.73	0.075
				1	12	21.54	18.64	0.073
				1	24	21.63	18.73	0.075
				12	0	20.54	17.64	0.058
				12	7	20.52	17.62	0.058
				12	13	20.52	17.62	0.058
				25	0	19.61	16.71	0.047
	2617.5	38225		1	0	21.05	18.15	0.065
				1	12	21.09	18.19	0.066
				1	24	21.01	18.11	0.065
				12	0	20.10	17.20	0.052
				12	7	20.01	17.11	0.051
				12	13	20.09	17.19	0.052
				25	0	19.02	16.12	0.041

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	23.17	20.27	0.106
				1	25	22.95	20.05	0.101
				1	49	23.19	20.29	0.107
				25	0	22.24	19.34	0.086
				25	12	22.23	19.33	0.086
				25	25	22.16	19.26	0.084
				50	0	21.23	18.33	0.068
	2595	38000		1	0	23.04	20.14	0.103
				1	25	23.20	20.30	0.107
				1	49	23.16	20.26	0.106
				25	0	22.18	19.28	0.085
				25	12	22.27	19.37	0.086
				25	25	22.27	19.37	0.086
				50	0	21.21	18.31	0.068
	2615	38200		1	0	23.10	20.20	0.105
				1	25	22.97	20.07	0.102
				1	49	23.10	20.20	0.105
				25	0	22.18	19.28	0.085
				25	12	22.23	19.33	0.086
				25	25	22.22	19.32	0.086
				50	0	21.17	18.27	0.067
16QAM	2575	37800		1	0	22.57	19.67	0.093
				1	25	22.50	19.60	0.091
				1	49	22.46	19.56	0.090
				25	0	21.25	18.35	0.068
				25	12	21.27	18.37	0.069
				25	25	21.24	18.34	0.068
				50	0	20.30	17.40	0.055
	2595	38000		1	0	22.43	19.53	0.090
				1	25	22.32	19.42	0.087
				1	49	22.23	19.33	0.086
				25	0	21.23	18.33	0.068
				25	12	21.21	18.31	0.068
				25	25	21.20	18.30	0.068
				50	0	20.28	17.38	0.055
	2615	38200		1	0	22.46	19.56	0.090
				1	25	22.37	19.47	0.089
				1	49	22.47	19.57	0.091
				25	0	21.26	18.36	0.069
				25	12	21.23	18.33	0.068
				25	25	21.20	18.30	0.068
				50	0	20.07	17.17	0.052

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2575	37800	10	1	0	21.19	18.29	0.067
				1	25	21.19	18.29	0.067
				1	49	21.30	18.40	0.069
				25	0	20.25	17.35	0.054
				25	12	20.19	17.29	0.054
				25	25	20.25	17.35	0.054
				50	0	19.19	16.29	0.043
	2595	38000		1	0	21.18	18.28	0.067
				1	25	21.21	18.31	0.068
				1	49	21.21	18.31	0.068
				25	0	20.21	17.31	0.054
				25	12	20.15	17.25	0.053
				25	25	20.21	17.31	0.054
				50	0	19.14	16.24	0.042
	2615	38200		1	0	21.13	18.23	0.067
				1	25	21.10	18.20	0.066
				1	49	21.11	18.21	0.066
				25	0	20.10	17.20	0.052
				25	12	20.03	17.13	0.052
				25	25	20.13	17.23	0.053
				50	0	19.03	16.13	0.041

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	23.04	20.14	0.103
				1	37	22.94	20.04	0.101
				1	74	22.93	20.03	0.101
				36	0	22.15	19.25	0.084
				36	29	22.16	19.26	0.084
				36	30	22.14	19.24	0.084
				75	0	21.20	18.30	0.068
	2595	38000		1	0	22.99	20.09	0.102
				1	37	23.11	20.21	0.105
				1	74	23.15	20.25	0.106
				36	0	22.18	19.28	0.085
				36	29	22.24	19.34	0.086
				36	30	22.23	19.33	0.086
				75	0	21.13	18.23	0.067
	2612.5	38175		1	0	23.19	20.29	0.107
				1	37	23.03	20.13	0.103
				1	74	23.06	20.16	0.104
				36	0	22.22	19.32	0.086
				36	29	22.10	19.20	0.083
				36	30	22.09	19.19	0.083
				75	0	21.19	18.29	0.067
16QAM	2577.5	37825		1	0	22.47	19.57	0.091
				1	37	22.32	19.42	0.087
				1	74	22.36	19.46	0.088
				36	0	21.23	18.33	0.068
				36	29	21.19	18.29	0.067
				36	30	21.20	18.30	0.068
				75	0	20.23	17.33	0.054
	2595	38000		1	0	22.25	19.35	0.086
				1	37	22.19	19.29	0.085
				1	74	22.23	19.33	0.086
				36	0	21.17	18.27	0.067
				36	29	21.22	18.32	0.068
				36	30	21.25	18.35	0.068
				75	0	20.11	17.21	0.053
	2612.5	38175		1	0	22.15	19.25	0.084
				1	37	21.90	19.00	0.079
				1	74	21.97	19.07	0.081
				36	0	21.11	18.21	0.066
				36	29	21.14	18.24	0.067
				36	30	21.10	18.20	0.066
				75	0	20.25	17.35	0.054

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2577.5	37825	15	1	0	21.19	18.29	0.067
				1	37	21.19	18.29	0.067
				1	74	21.20	18.30	0.068
				36	0	20.19	17.29	0.054
				36	29	20.19	17.29	0.054
				36	30	20.22	17.32	0.054
				75	0	19.19	16.29	0.043
	2595	38000		1	0	21.15	18.25	0.067
				1	37	21.16	18.26	0.067
				1	74	21.14	18.24	0.067
				36	0	20.14	17.24	0.053
				36	29	20.13	17.23	0.053
				36	30	20.14	17.24	0.053
				75	0	19.11	16.21	0.042
	2612.5	38175		1	0	21.18	18.28	0.067
				1	37	21.25	18.35	0.068
				1	74	21.22	18.32	0.068
				36	0	20.18	17.28	0.053
				36	29	20.18	17.28	0.053
				36	30	20.18	17.28	0.053
				75	0	19.18	16.28	0.042

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	23.13	20.23	0.105
				1	49	22.99	20.09	0.102
				1	99	23.04	20.14	0.103
				50	0	22.14	19.24	0.084
				50	24	22.10	19.20	0.083
				50	50	22.18	19.28	0.085
				100	0	21.18	18.28	0.067
	2595	38000		1	0	23.01	20.11	0.103
				1	49	23.06	20.16	0.104
				1	99	23.16	20.26	0.106
				50	0	22.13	19.23	0.084
				50	24	22.20	19.30	0.085
				50	50	22.19	19.29	0.085
				100	0	21.10	18.20	0.066
	2610	38150		1	0	23.09	20.19	0.104
				1	49	23.04	20.14	0.103
				1	99	23.07	20.17	0.104
				50	0	22.17	19.27	0.085
				50	24	22.07	19.17	0.083
				50	50	22.10	19.20	0.083
				100	0	21.14	18.24	0.067
16QAM	2580	37850		1	0	22.34	19.44	0.088
				1	49	22.32	19.42	0.087
				1	99	22.29	19.39	0.087
				50	0	21.15	18.25	0.067
				50	24	21.16	18.26	0.067
				50	50	21.16	18.26	0.067
				100	0	20.15	17.25	0.053
	2595	38000		1	0	22.13	19.23	0.084
				1	49	22.21	19.31	0.085
				1	99	22.21	19.31	0.085
				50	0	21.19	18.29	0.067
				50	24	21.17	18.27	0.067
				50	50	21.22	18.32	0.068
				100	0	20.15	17.25	0.053
	2610	38150		1	0	21.72	18.82	0.076
				1	49	21.69	18.79	0.076
				1	99	21.69	18.79	0.076
				50	0	20.17	17.27	0.053
				50	24	20.25	17.35	0.054
				50	50	20.15	17.25	0.053
				100	0	19.10	16.20	0.042

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2580	37850	20	1	0	21.24	18.34	0.068
				1	49	21.23	18.33	0.068
				1	99	21.21	18.31	0.068
				50	0	20.24	17.34	0.054
				50	24	20.18	17.28	0.053
				50	50	20.17	17.27	0.053
				100	0	19.21	16.31	0.043
	2595	38000		1	0	21.16	18.26	0.067
				1	49	21.15	18.25	0.067
				1	99	21.16	18.26	0.067
				50	0	20.09	17.19	0.052
				50	24	20.19	17.29	0.054
				50	50	20.12	17.22	0.053
				100	0	19.12	16.22	0.042
	2610	38150		1	0	21.15	18.25	0.067
				1	49	21.09	18.19	0.066
				1	99	21.10	18.20	0.066
				50	0	20.07	17.17	0.052
				50	24	20.16	17.26	0.053
				50	50	20.14	17.24	0.053
				100	0	19.16	16.26	0.042