

Fig.1

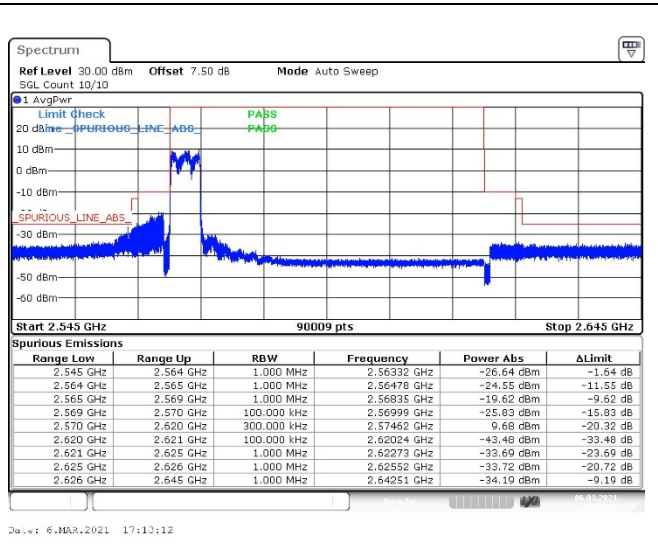


Fig.2

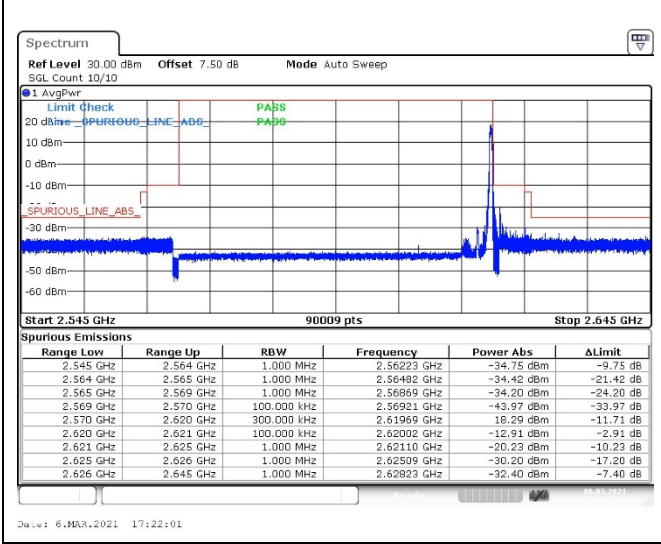


Fig.3

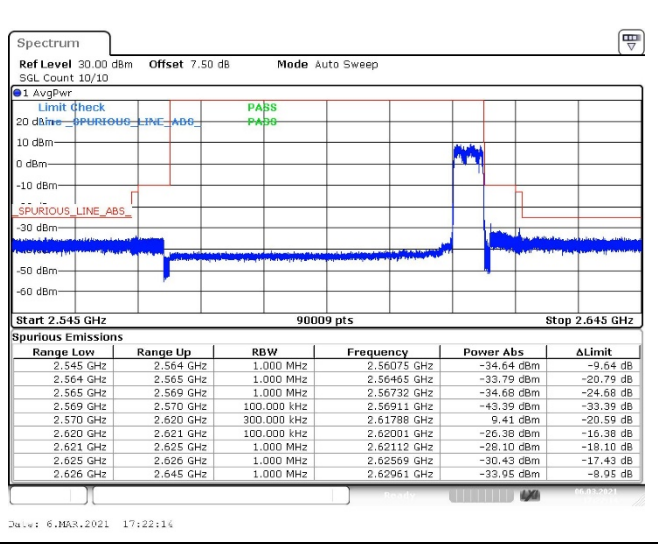


Fig.4

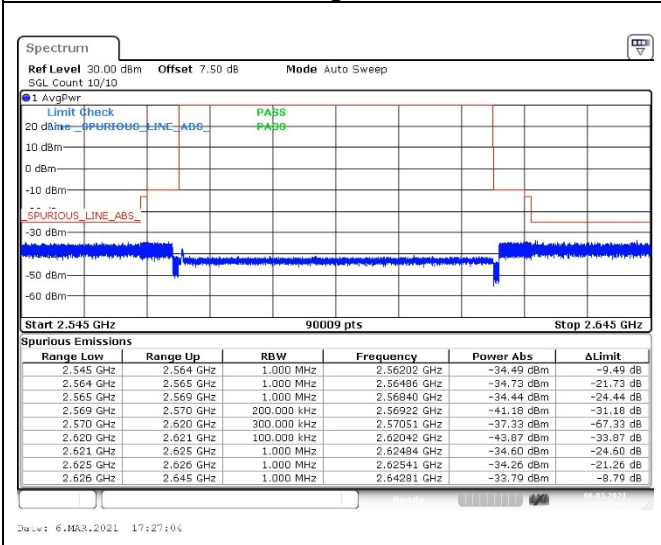


Fig.5

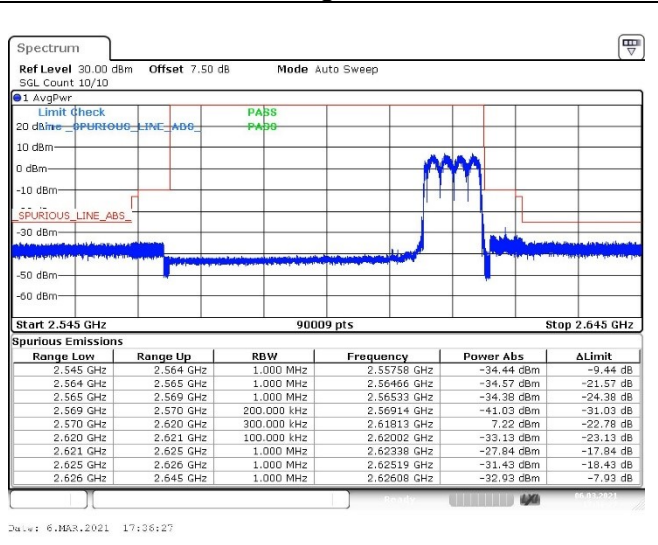


Fig.6

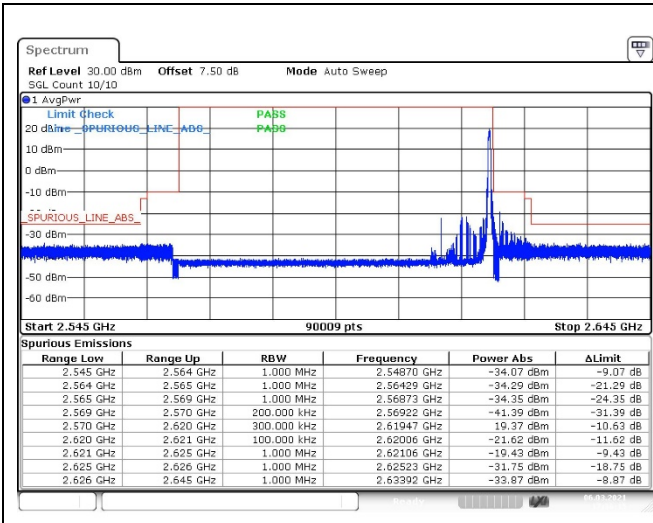


Fig.7

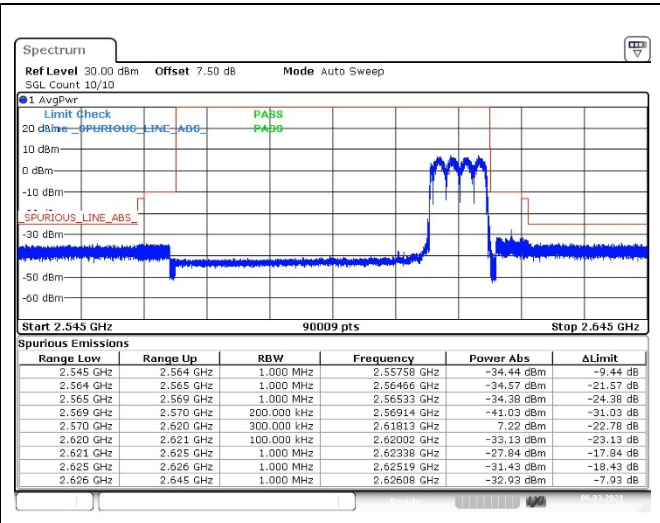


Fig.8

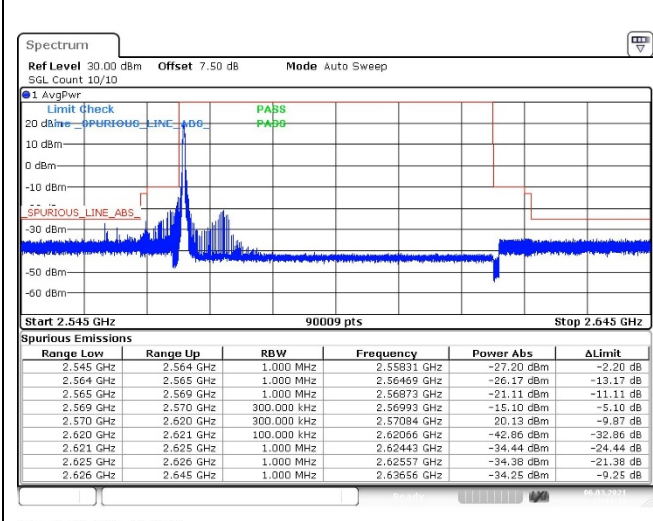


Fig.9

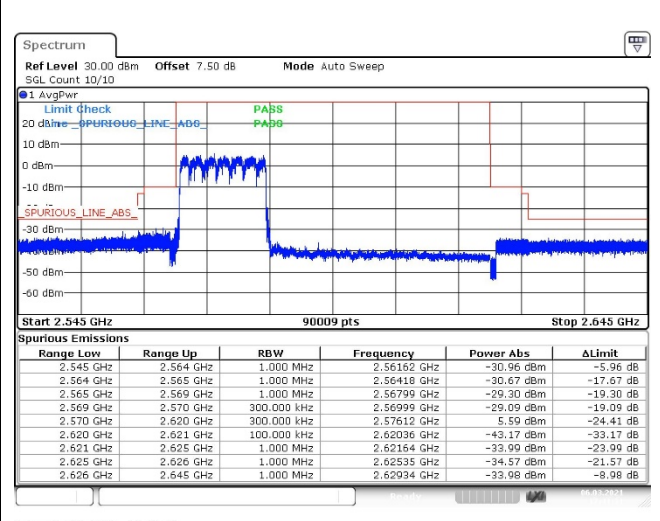


Fig.10

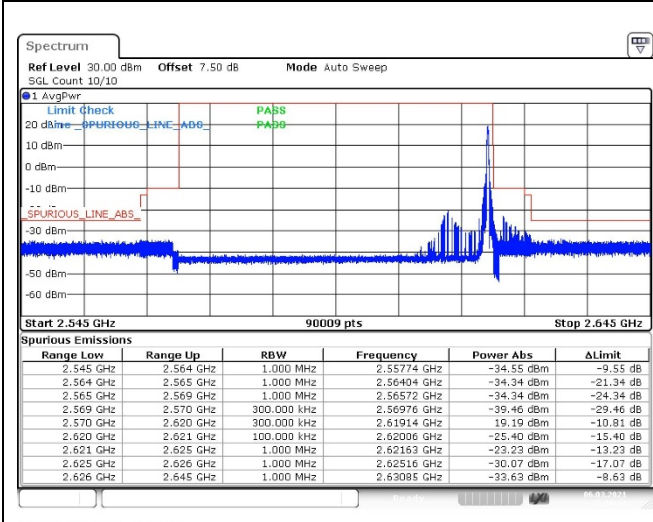


Fig.11

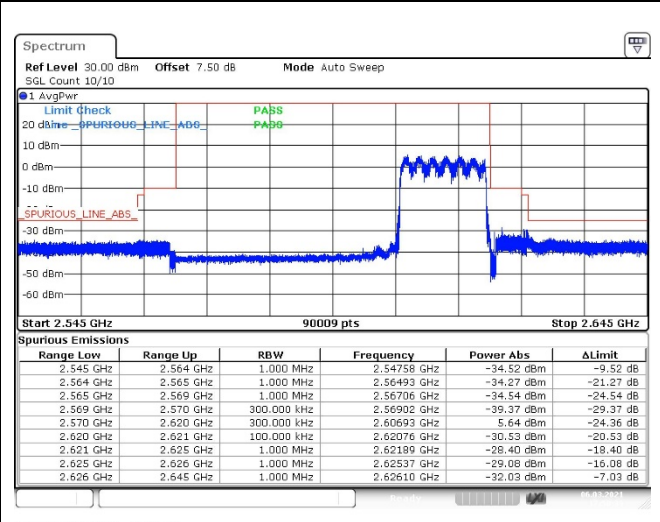


Fig.12

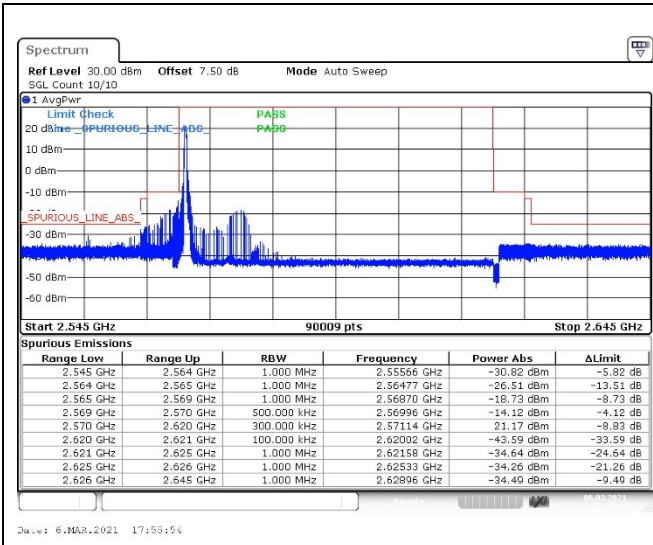


Fig.13

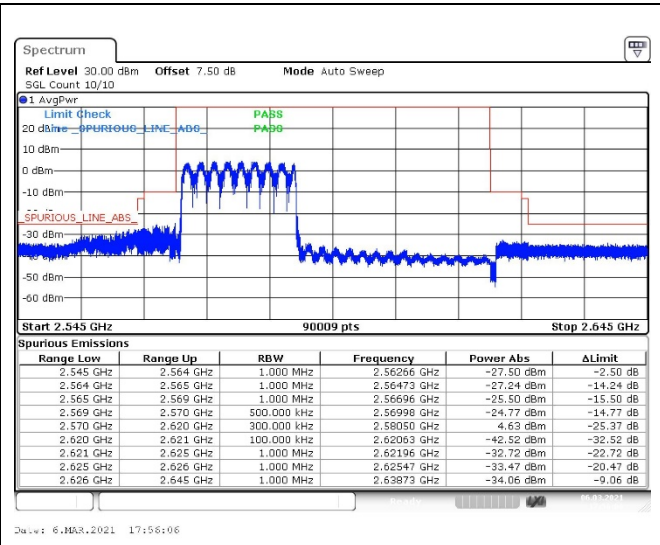


Fig.14

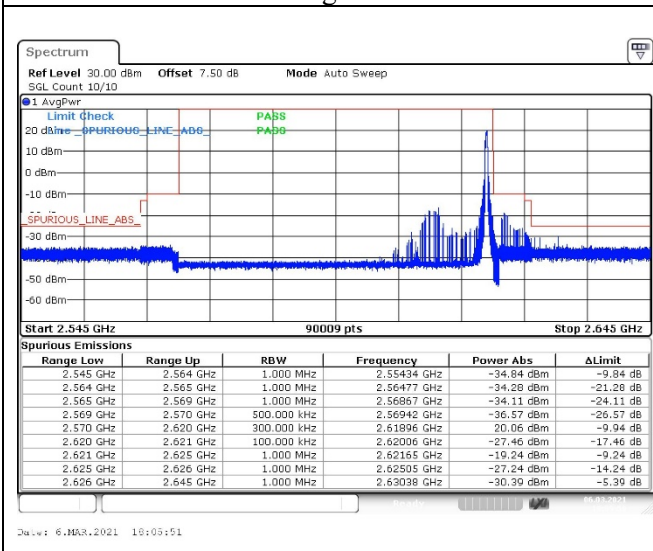


Fig.15

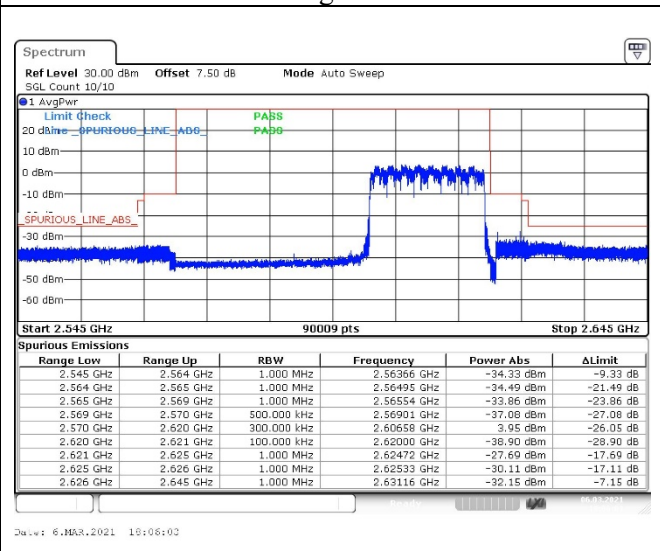


Fig.16

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	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	2572.5	37775	5	1	0	23.13	21.93	0.156
				1	12	23.06	21.86	0.153
				1	24	23.11	21.91	0.155
				12	0	22.09	20.89	0.123
				12	7	22.18	20.98	0.125
				12	13	22.21	21.01	0.126
	25	0		21.15	19.95	0.099		
	2595	38000		1	0	23.21	22.01	0.159
				1	12	23.04	21.84	0.153
				1	24	23.15	21.95	0.157
				12	0	22.12	20.92	0.124
				12	7	22.26	21.06	0.128
				12	13	22.23	21.03	0.127
	25	0		21.08	19.88	0.097		
	2617.5	38225		1	0	23.20	22.00	0.158
				1	12	23.09	21.89	0.155
				1	24	23.09	21.89	0.155
				12	0	22.16	20.96	0.125
12			7	22.14	20.94	0.124		
12			13	22.17	20.97	0.125		
25	0	21.15	19.95	0.099				
16QAM	2572.5	37775	1	0	22.58	21.38	0.137	
			1	12	22.58	21.38	0.137	
			1	24	22.47	21.27	0.134	
			12	0	21.11	19.91	0.098	
			12	7	21.10	19.90	0.098	
			12	13	21.09	19.89	0.097	
	25	0	20.21	19.01	0.080			
	2595	38000	1	0	22.57	21.37	0.137	
			1	12	22.56	21.36	0.137	
			1	24	22.48	21.28	0.134	
			12	0	21.32	20.12	0.103	
			12	7	21.29	20.09	0.102	
			12	13	21.24	20.04	0.101	
	25	0	20.18	18.98	0.079			
	2617.5	38225	1	0	22.60	21.40	0.138	
			1	12	22.59	21.39	0.138	
			1	24	22.57	21.37	0.137	
			12	0	21.34	20.14	0.103	
12			7	21.38	20.18	0.104		
12			13	21.29	20.09	0.102		
25	0	20.25	19.05	0.080				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2572.5	37775	5	1	0	21.11	19.91	0.098
				1	12	21.15	19.95	0.099
				1	24	21.08	19.88	0.097
				12	0	20.18	18.98	0.079
				12	7	20.12	18.92	0.078
				12	13	20.07	18.87	0.077
				25	0	19.07	17.87	0.061
	2595	38000		1	0	21.63	20.43	0.110
				1	12	21.54	20.34	0.108
				1	24	21.63	20.43	0.110
				12	0	20.54	19.34	0.086
				12	7	20.52	19.32	0.086
				12	13	20.52	19.32	0.086
				25	0	19.61	18.41	0.069
	2617.5	38225		1	0	21.05	19.85	0.097
				1	12	21.09	19.89	0.097
				1	24	21.01	19.81	0.096
				12	0	20.10	18.90	0.078
				12	7	20.01	18.81	0.076
				12	13	20.09	18.89	0.077
				25	0	19.02	17.82	0.061

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	23.17	21.97	0.157
				1	25	22.95	21.75	0.150
				1	49	23.19	21.99	0.158
				25	0	22.24	21.04	0.127
				25	12	22.23	21.03	0.127
				25	25	22.16	20.96	0.125
	50	0		21.23	20.03	0.101		
	1	0		23.04	21.84	0.153		
	1	25		23.20	22.00	0.158		
	1	49		23.16	21.96	0.157		
	25	0		22.18	20.98	0.125		
	25	12		22.27	21.07	0.128		
	25	25		22.27	21.07	0.128		
	50	0		21.21	20.01	0.100		
	1	0		23.10	21.90	0.155		
	1	25		22.97	21.77	0.150		
	1	49		23.10	21.90	0.155		
	16QAM	2575		37800	10	25	0	22.18
25			12			22.23	21.03	0.127
25			25			22.22	21.02	0.126
50			0			21.17	19.97	0.099
1			0			22.57	21.37	0.137
1			25			22.50	21.30	0.135
1		49	22.46	21.26		0.134		
25		0	21.25	20.05		0.101		
25		12	21.27	20.07		0.102		
25		25	21.24	20.04		0.101		
50		0	20.30	19.10		0.081		
1		0	22.43	21.23		0.133		
1		25	22.32	21.12		0.129		
1		49	22.23	21.03		0.127		
25		0	21.23	20.03		0.101		
25		12	21.21	20.01		0.100		
25		25	21.20	20.00		0.100		
50		0	20.28	19.08		0.081		
1	0	22.46	21.26	0.134				
1	25	22.37	21.17	0.131				
1	49	22.47	21.27	0.134				
25	0	21.26	20.06	0.101				
25	12	21.23	20.03	0.101				
25	25	21.20	20.00	0.100				
50	0	20.07	18.87	0.077				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2575	37800	10	1	0	21.19	19.99	0.100
				1	25	21.19	19.99	0.100
				1	49	21.30	20.10	0.102
				25	0	20.25	19.05	0.080
				25	12	20.19	18.99	0.079
				25	25	20.25	19.05	0.080
				50	0	19.19	17.99	0.063
	2595	38000		1	0	21.18	19.98	0.100
				1	25	21.21	20.01	0.100
				1	49	21.21	20.01	0.100
				25	0	20.21	19.01	0.080
				25	12	20.15	18.95	0.079
				25	25	20.21	19.01	0.080
				50	0	19.14	17.94	0.062
	2615	38200		1	0	21.13	19.93	0.098
				1	25	21.10	19.90	0.098
				1	49	21.11	19.91	0.098
				25	0	20.10	18.90	0.078
				25	12	20.03	18.83	0.076
				25	25	20.13	18.93	0.078
				50	0	19.03	17.83	0.061

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	23.04	21.84	0.153
				1	37	22.94	21.74	0.149
				1	74	22.93	21.73	0.149
				36	0	22.15	20.95	0.124
				36	29	22.16	20.96	0.125
				36	30	22.14	20.94	0.124
	75	0		21.20	20.00	0.100		
	2595	38000		1	0	22.99	21.79	0.151
				1	37	23.11	21.91	0.155
				1	74	23.15	21.95	0.157
				36	0	22.18	20.98	0.125
				36	29	22.24	21.04	0.127
				36	30	22.23	21.03	0.127
	75	0		21.13	19.93	0.098		
	2612.5	38175		1	0	23.19	21.99	0.158
1			37	23.03	21.83	0.152		
1			74	23.06	21.86	0.153		
36			0	22.22	21.02	0.126		
36			29	22.10	20.90	0.123		
36			30	22.09	20.89	0.123		
75	0	21.19	19.99	0.100				
16QAM	2577.5	37825	1	0	22.47	21.27	0.134	
			1	37	22.32	21.12	0.129	
			1	74	22.36	21.16	0.131	
			36	0	21.23	20.03	0.101	
			36	29	21.19	19.99	0.100	
			36	30	21.20	20.00	0.100	
	75	0	20.23	19.03	0.080			
	2595	38000	1	0	22.25	21.05	0.127	
			1	37	22.19	20.99	0.126	
			1	74	22.23	21.03	0.127	
			36	0	21.17	19.97	0.099	
			36	29	21.22	20.02	0.100	
			36	30	21.25	20.05	0.101	
	75	0	20.11	18.91	0.078			
	2612.5	38175	1	0	22.15	20.95	0.124	
1			37	21.90	20.70	0.117		
1			74	21.97	20.77	0.119		
36			0	21.11	19.91	0.098		
36			29	21.14	19.94	0.099		
36			30	21.10	19.90	0.098		
75	0	20.25	19.05	0.080				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2577.5	37825	15	1	0	21.19	19.99	0.100
				1	37	21.19	19.99	0.100
				1	74	21.20	20.00	0.100
				36	0	20.19	18.99	0.079
				36	29	20.19	18.99	0.079
				36	30	20.22	19.02	0.080
				75	0	19.19	17.99	0.063
	2595	38000		1	0	21.15	19.95	0.099
				1	37	21.16	19.96	0.099
				1	74	21.14	19.94	0.099
				36	0	20.14	18.94	0.078
				36	29	20.13	18.93	0.078
				36	30	20.14	18.94	0.078
				75	0	19.11	17.91	0.062
	2612.5	38175		1	0	21.18	19.98	0.100
				1	37	21.25	20.05	0.101
				1	74	21.22	20.02	0.100
				36	0	20.18	18.98	0.079
				36	29	20.18	18.98	0.079
				36	30	20.18	18.98	0.079
				75	0	19.18	17.98	0.063

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	23.13	21.93	0.156
				1	49	22.99	21.79	0.151
				1	99	23.04	21.84	0.153
				50	0	22.14	20.94	0.124
				50	24	22.10	20.90	0.123
				50	50	22.18	20.98	0.125
	100	0		21.18	19.98	0.100		
	2595	38000		1	0	23.01	21.81	0.152
				1	49	23.06	21.86	0.153
				1	99	23.16	21.96	0.157
				50	0	22.13	20.93	0.124
				50	24	22.20	21.00	0.126
				50	50	22.19	20.99	0.126
	100	0		21.10	19.90	0.098		
	2610	38150		1	0	23.09	21.89	0.155
				1	49	23.04	21.84	0.153
				1	99	23.07	21.87	0.154
				50	0	22.17	20.97	0.125
50			24	22.07	20.87	0.122		
50			50	22.10	20.90	0.123		
16QAM	2580	37850	100	0	21.14	19.94	0.099	
			1	0	22.34	21.14	0.130	
			1	49	22.32	21.12	0.129	
			1	99	22.29	21.09	0.129	
			50	0	21.15	19.95	0.099	
			50	24	21.16	19.96	0.099	
	50	50	21.16	19.96	0.099			
	100	0	20.15	18.95	0.079			
	2595	38000	1	0	22.13	20.93	0.124	
			1	49	22.21	21.01	0.126	
			1	99	22.21	21.01	0.126	
			50	0	21.19	19.99	0.100	
			50	24	21.17	19.97	0.099	
			50	50	21.22	20.02	0.100	
	100	0	20.15	18.95	0.079			
	2610	38150	1	0	21.72	20.52	0.113	
			1	49	21.69	20.49	0.112	
			1	99	21.69	20.49	0.112	
50			0	20.17	18.97	0.079		
50			24	20.25	19.05	0.080		
50			50	20.15	18.95	0.079		
100	0	19.10	17.90	0.062				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	2580	37850	20	1	0	21.24	20.04	0.101
				1	49	21.23	20.03	0.101
				1	99	21.21	20.01	0.100
				50	0	20.24	19.04	0.080
				50	24	20.18	18.98	0.079
				50	50	20.17	18.97	0.079
	2595	38000		100	0	19.21	18.01	0.063
				1	0	21.16	19.96	0.099
				1	49	21.15	19.95	0.099
				1	99	21.16	19.96	0.099
				50	0	20.09	18.89	0.077
				50	24	20.19	18.99	0.079
	2610	38150		50	50	20.12	18.92	0.078
				100	0	19.12	17.92	0.062
				1	0	21.15	19.95	0.099
				1	49	21.09	19.89	0.097
				1	99	21.10	19.90	0.098
				50	0	20.07	18.87	0.077
			50	24	20.16	18.96	0.079	
			50	50	20.14	18.94	0.078	
			100	0	19.16	17.96	0.063	