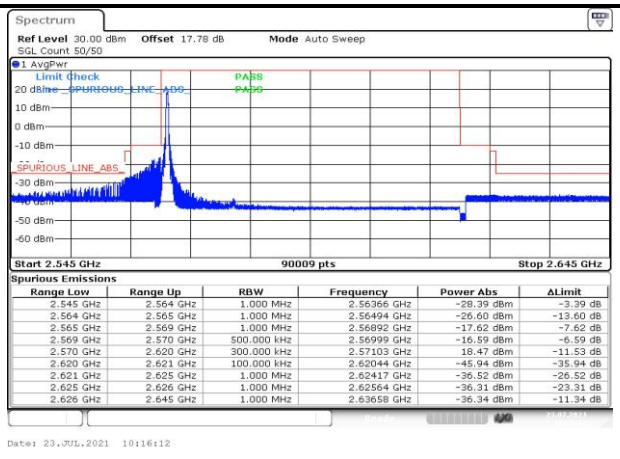

Fig.13

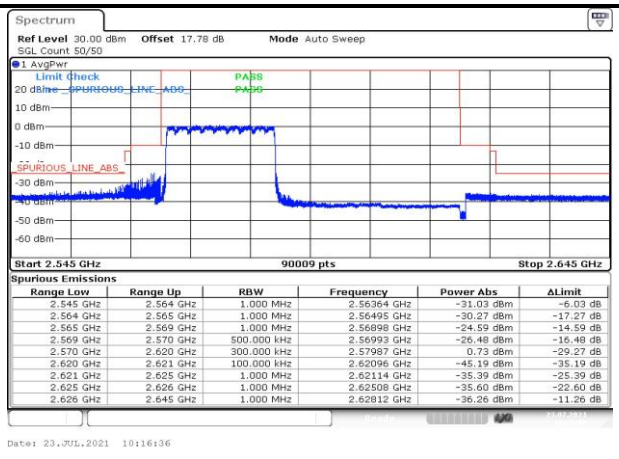

Fig.14

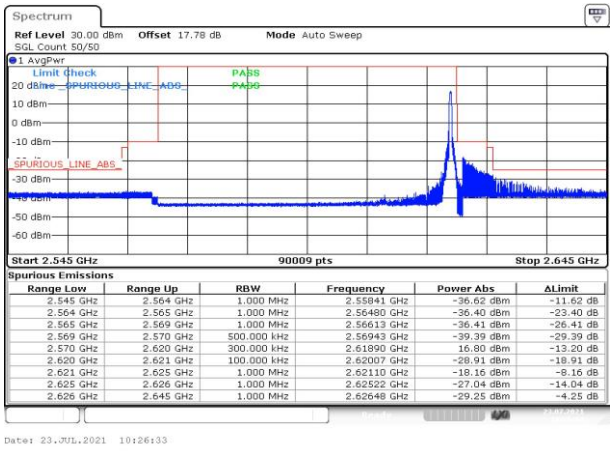

Fig.15

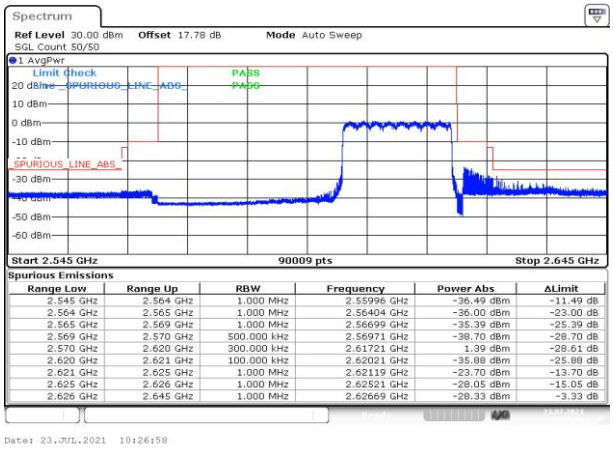

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band38 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	---	---	-0.004	0.000	-0.388	0.001
-20	NV	---	---	-0.004	-0.001	0.001	0.001
-10	NV	---	---	-0.003	-0.001	0.002	0.002
0	NV	---	---	-0.004	-0.001	0.000	0.000
+10	NV	---	---	-0.003	-0.001	0.000	0.001
+20	NV	---	---	-0.004	-0.001	0.001	0.002
+30	NV	---	---	-0.005	0.001	0.002	0.002
+40	NV	---	---	-0.003	0.001	0.001	0.002
+50	NV	---	---	-0.003	-0.001	0.001	-0.001
+20	LV	---	---	-0.005	-0.001	0.001	0.000
+20	HV	---	---	-0.003	-0.001	0.001	0.001

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

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	22.87	18.97	0.079
				1	12	22.89	18.99	0.079
				1	24	22.87	18.97	0.079
				12	0	21.93	18.03	0.064
				12	7	21.91	18.01	0.063
				12	13	21.89	17.99	0.063
				25	0	21.88	17.98	0.063
	2595	38000		1	0	22.86	18.96	0.079
				1	12	22.91	19.01	0.080
				1	24	22.97	19.07	0.081
				12	0	21.89	17.99	0.063
				12	7	22.02	18.12	0.065
				12	13	21.96	18.06	0.064
				25	0	21.93	18.03	0.064
	2617.5	38225		1	0	23.01	19.11	0.081
				1	12	22.95	19.05	0.080
				1	24	22.94	19.04	0.080
				12	0	22.08	18.18	0.066
				12	7	22.10	18.20	0.066
				12	13	22.10	18.20	0.066
				25	0	22.11	18.21	0.066
16QAM	2572.5	37775		1	0	22.37	18.47	0.070
				1	12	22.31	18.41	0.069
				1	24	22.30	18.40	0.069
				12	0	20.91	17.01	0.050
				12	7	20.89	16.99	0.050
				12	13	20.88	16.98	0.050
				25	0	20.90	17.00	0.050
	2595	38000		1	0	22.03	18.13	0.065
				1	12	22.11	18.21	0.066
				1	24	22.16	18.26	0.067
				12	0	20.89	16.99	0.050
				12	7	20.96	17.06	0.051
				12	13	20.96	17.06	0.051
				25	0	20.91	17.01	0.050
	2617.5	38225		1	0	22.44	18.54	0.071
				1	12	22.48	18.58	0.072
				1	24	22.40	18.50	0.071
				12	0	21.17	17.27	0.053
				12	7	21.11	17.21	0.053
				12	13	21.12	17.22	0.053

				25	0	21.07	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	2572.5	37775	5	1	0	20.97	17.07	0.051
				1	12	20.90	17.00	0.050
				1	24	20.89	16.99	0.050
				12	0	20.89	16.99	0.050
				12	7	20.89	16.99	0.050
				12	13	20.98	17.08	0.051
				25	0	20.91	17.01	0.050
	2595	38000		1	0	20.92	17.02	0.050
				1	12	20.93	17.03	0.050
				1	24	20.92	17.02	0.050
				12	0	20.91	17.01	0.050
				12	7	20.91	17.01	0.050
				12	13	20.91	17.01	0.050
				25	0	20.91	17.01	0.050
	2617.5	38225		1	0	21.06	17.16	0.052
				1	12	21.07	17.17	0.052
				1	24	21.09	17.19	0.052
				12	0	21.12	17.22	0.053
				12	7	21.09	17.19	0.052
				12	13	21.14	17.24	0.053
				25	0	21.06	17.16	0.052

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	22.82	18.92	0.078
				1	25	22.78	18.88	0.077
				1	49	22.71	18.81	0.076
				25	0	21.94	18.04	0.064
				25	12	21.97	18.07	0.064
				25	25	21.95	18.05	0.064
				50	0	21.97	18.07	0.064
	2595	38000		1	0	22.87	18.97	0.079
				1	25	22.79	18.89	0.077
				1	49	22.87	18.97	0.079
				25	0	21.93	18.03	0.064
				25	12	22.04	18.14	0.065
				25	25	22.04	18.14	0.065
				50	0	22.03	18.13	0.065
	2615	38200		1	0	23.13	19.23	0.084
				1	25	23.07	19.17	0.083
				1	49	23.01	19.11	0.081
				25	0	22.14	18.24	0.067
				25	12	22.14	18.24	0.067
				25	25	22.23	18.33	0.068
				50	0	22.10	18.20	0.066
16QAM	2575	37800		1	0	22.39	18.49	0.071
				1	25	22.18	18.28	0.067
				1	49	22.59	18.69	0.074
				25	0	21.06	17.16	0.052
				25	12	21.00	17.10	0.051
				25	25	21.00	17.10	0.051
				50	0	20.97	17.07	0.051
	2595	38000		1	0	22.00	18.10	0.065
				1	25	21.97	18.07	0.064
				1	49	22.08	18.18	0.066
				25	0	20.96	17.06	0.051
				25	12	21.08	17.18	0.052
				25	25	21.01	17.11	0.051
				50	0	21.01	17.11	0.051
	2615	38200		1	0	22.02	18.12	0.065
				1	25	22.11	18.21	0.066
				1	49	22.00	18.10	0.065
				25	0	21.01	17.11	0.051
				25	12	21.09	17.19	0.052
				25	25	21.15	17.25	0.053
				50	0	21.11	17.21	0.053

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	21.04	17.14	0.052
				1	25	20.97	17.07	0.051
				1	49	21.00	17.10	0.051
				25	0	21.01	17.11	0.051
				25	12	21.04	17.14	0.052
				25	25	20.97	17.07	0.051
				50	0	21.00	17.10	0.051
	2595	38000		1	0	20.89	16.99	0.050
				1	25	21.00	17.10	0.051
				1	49	20.90	17.00	0.050
				25	0	20.93	17.03	0.050
				25	12	21.00	17.10	0.051
				25	25	21.00	17.10	0.051
				50	0	20.99	17.09	0.051
	2615	38200		1	0	21.12	17.22	0.053
				1	25	21.06	17.16	0.052
				1	49	21.13	17.23	0.053
				25	0	21.12	17.22	0.053
				25	12	21.12	17.22	0.053
				25	25	21.12	17.22	0.053
				50	0	21.13	17.23	0.053

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	22.71	18.81	0.076
				1	37	22.70	18.80	0.076
				1	74	22.68	18.78	0.076
				36	0	21.78	17.88	0.061
				36	29	21.76	17.86	0.061
				36	30	21.79	17.89	0.062
				75	0	21.80	17.90	0.062
	2595	38000		1	0	22.78	18.88	0.077
				1	37	22.82	18.92	0.078
				1	74	22.84	18.94	0.078
				36	0	21.78	17.88	0.061
				36	29	21.85	17.95	0.062
				36	30	21.84	17.94	0.062
				75	0	21.87	17.97	0.063
	2612.5	38175		1	0	22.99	19.09	0.081
				1	37	23.03	19.13	0.082
				1	74	23.04	19.14	0.082
				36	0	21.98	18.08	0.064
				36	29	22.08	18.18	0.066
				36	30	22.03	18.13	0.065
				75	0	21.84	17.94	0.062
16QAM	2577.5	37825		1	0	22.12	18.22	0.066
				1	37	22.12	18.22	0.066
				1	74	22.14	18.24	0.067
				36	0	20.80	16.90	0.049
				36	29	20.88	16.98	0.050
				36	30	20.87	16.97	0.050
				75	0	20.84	16.94	0.049
	2595	38000		1	0	21.86	17.96	0.063
				1	37	21.82	17.92	0.062
				1	74	21.96	18.06	0.064
				36	0	20.77	16.87	0.049
				36	29	20.88	16.98	0.050
				36	30	20.88	16.98	0.050
				75	0	20.80	16.90	0.049
	2612.5	38175		1	0	22.17	18.27	0.067
				1	37	22.02	18.12	0.065
				1	74	22.03	18.13	0.065
				36	0	20.91	17.01	0.050
				36	29	20.98	17.08	0.051
				36	30	20.98	17.08	0.051
				75	0	20.95	17.05	0.051

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	20.84	16.94	0.049
				1	37	20.84	16.94	0.049
				1	74	20.83	16.93	0.049
				36	0	20.82	16.92	0.049
				36	29	20.83	16.93	0.049
				36	30	20.84	16.94	0.049
				75	0	20.85	16.95	0.050
	2595	38000		1	0	20.84	16.94	0.049
				1	37	20.87	16.97	0.050
				1	74	20.86	16.96	0.050
				36	0	20.87	16.97	0.050
				36	29	20.83	16.93	0.049
				36	30	20.87	16.97	0.050
				75	0	20.87	16.97	0.050
	2612.5	38175		1	0	20.92	17.02	0.050
				1	37	20.92	17.02	0.050
				1	74	20.92	17.02	0.050
				36	0	20.98	17.08	0.051
				36	29	20.92	17.02	0.050
				36	30	20.96	17.06	0.051
				75	0	20.94	17.04	0.051

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	22.80	18.90	0.078
				1	49	22.90	19.00	0.079
				1	99	22.88	18.98	0.079
				50	0	21.76	17.86	0.061
				50	24	21.92	18.02	0.063
				50	50	21.89	17.99	0.063
				100	0	21.84	17.94	0.062
	2595	38000		1	0	22.94	19.04	0.080
				1	49	23.02	19.12	0.082
				1	99	23.02	19.12	0.082
				50	0	21.85	17.95	0.062
				50	24	21.93	18.03	0.064
				50	50	21.93	18.03	0.064
				100	0	21.90	18.00	0.063
	2610	38150		1	0	22.97	19.07	0.081
				1	49	23.01	19.11	0.081
				1	99	23.05	19.15	0.082
				50	0	21.95	18.05	0.064
				50	24	22.02	18.12	0.065
				50	50	22.05	18.15	0.065
				100	0	21.97	18.07	0.064
16QAM	2580	37850		1	0	22.05	18.15	0.065
				1	49	22.15	18.25	0.067
				1	99	22.14	18.24	0.067
				50	0	20.82	16.92	0.049
				50	24	20.90	17.00	0.050
				50	50	20.89	16.99	0.050
				100	0	20.97	17.07	0.051
	2595	38000		1	0	22.01	18.11	0.065
				1	49	22.08	18.18	0.066
				1	99	22.05	18.15	0.065
				50	0	20.84	16.94	0.049
				50	24	20.93	17.03	0.050
				50	50	20.93	17.03	0.050
				100	0	20.99	17.09	0.051
	2610	38150		1	0	21.62	17.72	0.059
				1	49	21.68	17.78	0.060
				1	99	21.68	17.78	0.060
				50	0	21.04	17.14	0.052
				50	24	21.10	17.20	0.052
				50	50	21.15	17.25	0.053
				100	0	20.99	17.09	0.051

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	20.87	16.97	0.050
				1	49	20.87	16.97	0.050
				1	99	20.90	17.00	0.050
				50	0	20.92	17.02	0.050
				50	24	20.89	16.99	0.050
				50	50	20.91	17.01	0.050
				100	0	20.88	16.98	0.050
	2595	38000		1	0	20.92	17.02	0.050
				1	49	20.95	17.05	0.051
				1	99	20.98	17.08	0.051
				50	0	20.98	17.08	0.051
				50	24	20.88	16.98	0.050
				50	50	20.98	17.08	0.051
				100	0	20.88	16.98	0.050
	2610	38150		1	0	20.95	17.05	0.051
				1	49	21.03	17.13	0.052
				1	99	20.99	17.09	0.051
				50	0	21.02	17.12	0.052
				50	24	20.99	17.09	0.051
				50	50	21.02	17.12	0.052
				100	0	21.00	17.10	0.051