

Fig.19

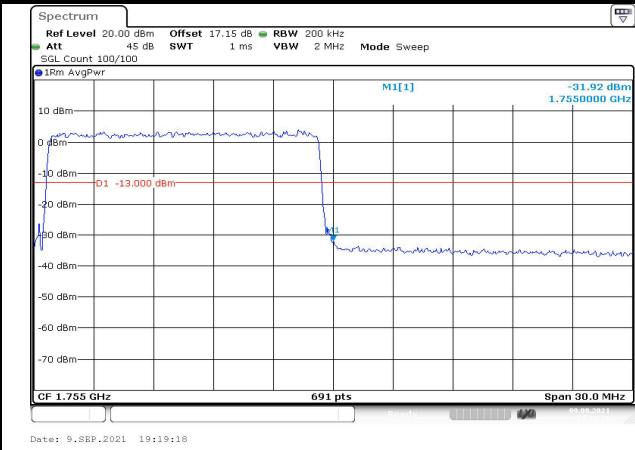


Fig.20

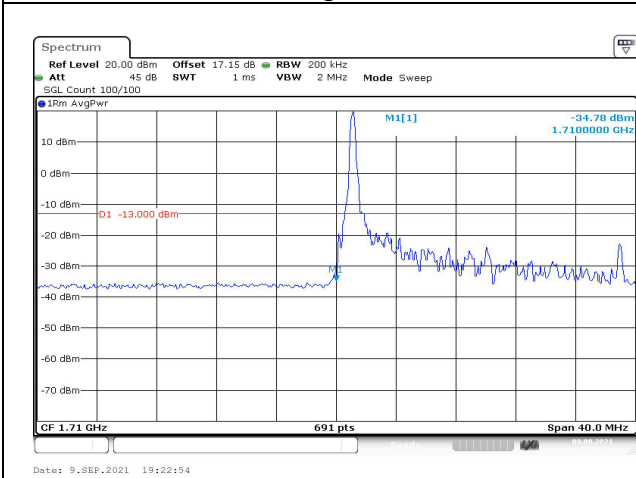


Fig.21

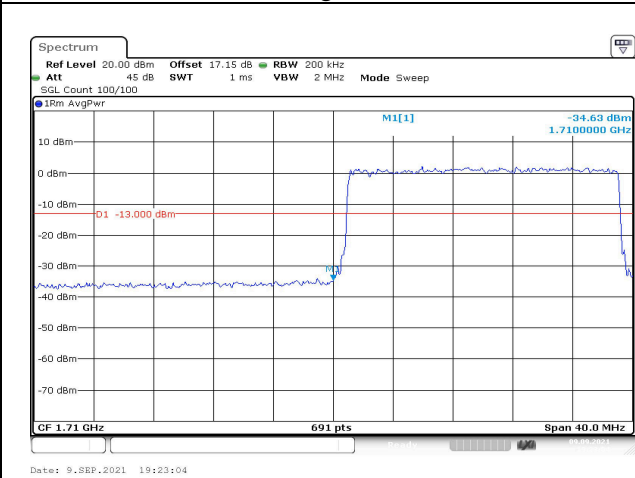


Fig.22

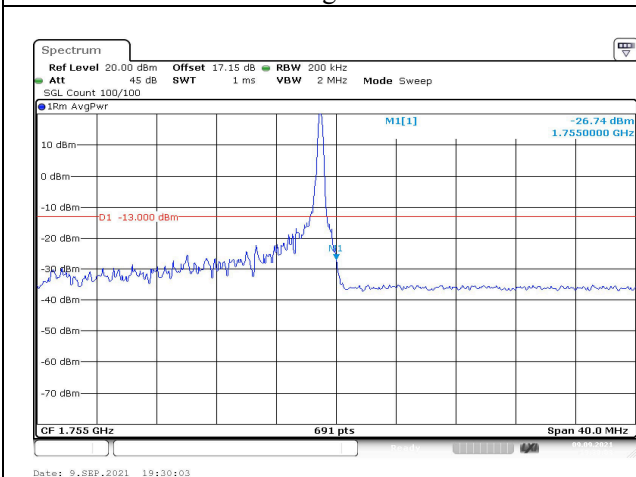


Fig.23

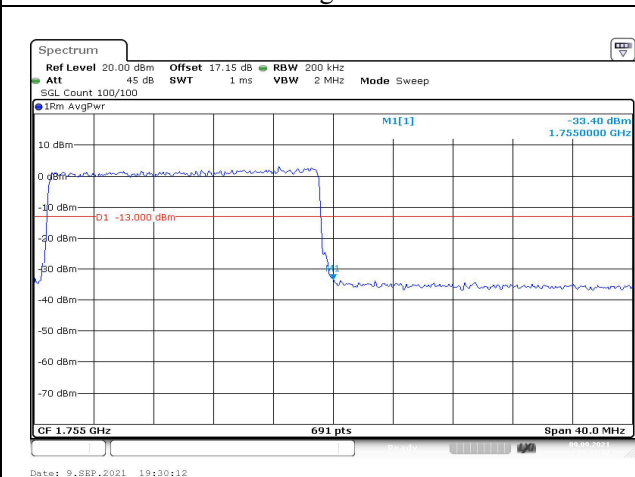


Fig.24

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 4 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	0.582	0.027	0.021	0.009	0.007	0.017
-20	NV	0.000	0.001	0.001	-0.002	0.000	0.001
-10	NV	0.000	0.001	0.001	-0.001	-0.001	0.000
0	NV	0.009	0.015	0.019	0.023	0.020	0.021
+10	NV	0.013	0.016	0.020	0.011	0.016	0.019
+30	NV	0.011	0.020	0.017	0.021	0.016	0.021
+40	NV	0.010	0.020	0.014	0.014	0.012	0.019
+50	NV	0.016	0.004	0.011	0.022	0.015	0.007
+20	LV	0.016	0.014	0.023	0.022	0.010	0.016
+20	HV	0.019	0.018	0.018	0.019	0.020	0.010

Temperature(°C)	Voltage	Test Result (ppm) Band 4 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-30	NV	0.024	0.010	0.058	0.010	0.045	0.018
-20	NV	-0.001	0.002	0.000	0.001	0.001	-0.001
-10	NV	-0.001	0.001	0.001	0.000	0.001	0.000
0	NV	0.016	0.570	0.018	0.015	0.021	0.016
+10	NV	0.023	0.015	0.012	0.003	0.020	0.010
+30	NV	0.017	0.009	0.025	0.022	0.009	0.013
+40	NV	0.009	0.020	0.012	0.015	0.015	0.021
+50	NV	0.567	0.022	0.007	0.016	0.021	0.007
+20	LV	0.567	0.013	0.003	0.010	0.018	0.021
+20	HV	0.567	0.026	0.022	0.016	0.017	0.013

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	1710.7	19957	1.4	1	0	21.78	21.37	0.137
				1	3	21.73	21.32	0.136
				1	5	21.73	21.32	0.136
				3	0	21.88	21.47	0.140
				3	1	21.9	21.49	0.141
				3	3	21.85	21.44	0.139
	6	0		20.8	20.39	0.109		
	1732.5	20175		1	0	21.65	21.24	0.133
				1	3	21.66	21.25	0.133
				1	5	21.61	21.20	0.132
				3	0	21.61	21.20	0.132
				3	1	21.71	21.30	0.135
				3	3	21.66	21.25	0.133
	1754.3	20393		6	0	21.04	20.63	0.116
				1	0	22.33	21.92	0.156
				1	3	22.3	21.89	0.155
				1	5	22.34	21.93	0.156
				3	0	21.75	21.34	0.136
				3	1	21.7	21.29	0.135
				3	3	21.74	21.33	0.136
				6	0	20.76	20.35	0.108

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1710.7	19957	1.4	1	0	22.39	21.98	0.158
				1	3	22.34	21.93	0.156
				1	5	22.42	22.01	0.159
				3	0	22.48	22.07	0.161
				3	1	22.63	22.22	0.167
				3	3	22.55	22.14	0.164
	6	0		21.67	21.26	0.134		
	1732.5	20175		1	0	22.58	22.17	0.165
				1	3	22.44	22.03	0.160
				1	5	22.48	22.07	0.161
				3	0	22.44	22.03	0.160
				3	1	22.46	22.05	0.160
				3	3	22.42	22.01	0.159
	6	0		21.41	21.00	0.126		
	1754.3	20393		1	0	22.71	22.30	0.170
				1	3	22.61	22.20	0.166
				1	5	22.62	22.21	0.166
				3	0	22.64	22.23	0.167
				3	1	22.66	22.25	0.168
				3	3	22.66	22.25	0.168
	6	0		21.7	21.29	0.135		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1711.5	19965	3	1	0	21.76	21.35	0.136
				1	8	21.72	21.31	0.135
				1	14	21.76	21.35	0.136
				8	0	20.76	20.35	0.108
				8	4	20.74	20.33	0.108
				8	7	20.73	20.32	0.108
				15	0	20.8	20.39	0.109
	1732.5	20175		1	0	22.24	21.83	0.152
				1	8	22.19	21.78	0.151
				1	14	22.28	21.87	0.154
				8	0	20.53	20.12	0.103
				8	4	20.41	20.00	0.100
				8	7	20.49	20.08	0.102
				15	0	20.73	20.32	0.108
	1753.5	20385		1	0	21.67	21.26	0.134
				1	8	21.69	21.28	0.134
				1	14	21.64	21.23	0.133
				8	0	20.66	20.25	0.106
				8	4	20.65	20.24	0.106
				8	7	20.63	20.22	0.105
				15	0	20.71	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)
QPSK	1711.5	19965	3	1	0	22.49	22.08	0.161
				1	8	22.51	22.10	0.162
				1	14	22.54	22.13	0.163
				8	0	21.56	21.15	0.130
				8	4	21.53	21.12	0.129
				8	7	21.52	21.11	0.129
				15	0	21.47	21.06	0.128
	1732.5	20175		1	0	22.45	22.04	0.160
				1	8	22.49	22.08	0.161
				1	14	22.47	22.06	0.161
				8	0	21.41	21.00	0.126
				8	4	21.43	21.02	0.126
				8	7	21.35	20.94	0.124
				15	0	21.37	20.96	0.125
	1753.5	20385		1	0	23	22.59	0.182
				1	8	22.97	22.56	0.180
				1	14	22.98	22.57	0.181
				8	0	21.65	21.24	0.133
				8	4	21.74	21.33	0.136
				8	7	21.64	21.23	0.133
				15	0	21.62	21.21	0.132

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1712.5	19975	5	1	0	21.11	20.70	0.117
				1	12	21.03	20.62	0.115
				1	24	20.95	20.54	0.113
				12	0	20.61	20.20	0.105
				12	7	20.6	20.19	0.104
				12	13	20.55	20.14	0.103
				25	0	20.88	20.47	0.111
	1732.5	20175		1	0	21.51	21.10	0.129
				1	12	21.57	21.16	0.131
				1	24	21.5	21.09	0.129
				12	0	20.43	20.02	0.100
				12	7	20.19	19.78	0.095
				12	13	20.36	19.95	0.099
				25	0	20.53	20.12	0.103
	1752.5	20375		1	0	21.92	21.51	0.142
				1	12	21.91	21.50	0.141
				1	24	21.99	21.58	0.144
				12	0	20.63	20.22	0.105
				12	7	20.62	20.21	0.105
				12	13	20.59	20.18	0.104
				25	0	20.85	20.44	0.111

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1712.5	19975	5	1	0	22.72	22.31	0.170
				1	12	22.65	22.24	0.167
				1	24	22.64	22.23	0.167
				12	0	21.63	21.22	0.132
				12	7	21.58	21.17	0.131
				12	13	21.5	21.09	0.129
				25	0	21.47	21.06	0.128
	1732.5	20175		1	0	22.29	21.88	0.154
				1	12	22.33	21.92	0.156
				1	24	22.35	21.94	0.156
				12	0	21.44	21.03	0.127
				12	7	21.36	20.95	0.124
				12	13	21.45	21.04	0.127
				25	0	21.51	21.10	0.129
	1752.5	20375		1	0	22.66	22.25	0.168
				1	12	22.73	22.32	0.171
				1	24	22.74	22.33	0.171
				12	0	21.62	21.21	0.132
				12	7	21.68	21.27	0.134
				12	13	21.74	21.33	0.136
				25	0	21.67	21.26	0.134

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1715	20000	10	1	0	22.52	22.11	0.163
				1	25	22.47	22.06	0.161
				1	49	22.44	22.03	0.160
				25	0	20.74	20.33	0.108
				25	12	20.76	20.35	0.108
				25	25	20.66	20.25	0.106
	1732.5	20175		50	0	20.65	20.24	0.106
				1	0	22.05	21.64	0.146
				1	25	21.94	21.53	0.142
				1	49	22.05	21.64	0.146
				25	0	20.68	20.27	0.106
				25	12	20.6	20.19	0.104
	1750	20350		25	25	20.73	20.32	0.108
				50	0	20.58	20.17	0.104
				1	0	21.92	21.51	0.142
				1	25	21.88	21.47	0.140
				1	49	22.17	21.76	0.150
				25	0	20.68	20.27	0.106
				25	12	20.84	20.43	0.110
				25	25	20.76	20.35	0.108
				50	0	20.74	20.33	0.108

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1715	20000	10	1	0	22.59	22.18	0.165
				1	25	22.51	22.10	0.162
				1	49	22.53	22.12	0.163
				25	0	21.54	21.13	0.130
				25	12	21.59	21.18	0.131
				25	25	21.44	21.03	0.127
	1732.5	20175		50	0	21.58	21.17	0.131
				1	0	22.57	22.16	0.164
				1	25	22.71	22.30	0.170
				1	49	22.72	22.31	0.170
				25	0	21.54	21.13	0.130
				25	12	21.53	21.12	0.129
	1750	20350		25	25	21.53	21.12	0.129
				50	0	21.53	21.12	0.129
				1	0	22.59	22.18	0.165
				1	25	22.51	22.10	0.162
				1	49	22.53	22.12	0.163
				25	0	21.63	21.22	0.132
				25	12	21.63	21.22	0.132
				25	25	21.64	21.23	0.133
				50	0	21.66	21.25	0.133

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1717.5	20025	15	1	0	22.51	22.10	0.162
				1	37	22.52	22.11	0.163
				1	74	22.43	22.02	0.159
				36	0	20.7	20.29	0.107
				36	29	20.69	20.28	0.107
				36	30	20.69	20.28	0.107
				75	0	20.64	20.23	0.105
	1	0		21.93	21.52	0.142		
	1	37		21.9	21.49	0.141		
	1	74		21.97	21.56	0.143		
	36	0		20.36	19.95	0.099		
	36	29		20.62	20.21	0.105		
	36	30		20.61	20.20	0.105		
	75	0		20.67	20.26	0.106		
	1	0		21.94	21.53	0.142		
	1	37		22.08	21.67	0.147		
	1	74		22.14	21.73	0.149		
	36	0		20.67	20.26	0.106		
	36	29		20.68	20.27	0.106		
	36	30		20.69	20.28	0.107		
	75	0		20.69	20.28	0.107		
1732.5	20175	20325	1	0	21.94	21.53	0.142	
			1	37	22.08	21.67	0.147	
			1	74	22.14	21.73	0.149	
			36	0	20.67	20.26	0.106	
			36	29	20.68	20.27	0.106	
			36	30	20.69	20.28	0.107	
			75	0	20.69	20.28	0.107	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1717.5	20025	15	1	0	22.57	22.16	0.164
				1	37	22.46	22.05	0.160
				1	74	22.46	22.05	0.160
				36	0	21.6	21.19	0.132
				36	29	21.23	20.82	0.121
				36	30	21.41	21.00	0.126
				75	0	21.46	21.05	0.127
	1	0		22.55	22.14	0.164		
	1	37		22.65	22.24	0.167		
	1	74		22.72	22.31	0.170		
	36	0		21.41	21.00	0.126		
	36	29		21.49	21.08	0.128		
	36	30		21.48	21.07	0.128		
	75	0		21.36	20.95	0.124		
	1	0		22.25	21.84	0.153		
	1	37		22.49	22.08	0.161		
	1	74		22.49	22.08	0.161		
	36	0		21.55	21.14	0.130		
	36	29		21.61	21.20	0.132		
	36	30		21.62	21.21	0.132		
	75	0		21.55	21.14	0.130		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	1720	20050	20	1	0	22.22	21.81	0.152
				1	49	22.02	21.61	0.145
				1	99	22.13	21.72	0.149
				50	0	20.73	20.32	0.108
				50	24	20.77	20.36	0.109
				50	50	20.55	20.14	0.103
				100	0	20.52	20.11	0.103
	1732.5	20175		1	0	21.61	21.20	0.132
				1	49	21.62	21.21	0.132
				1	99	21.61	21.20	0.132
				50	0	20.63	20.22	0.105
				50	24	20.66	20.25	0.106
				50	50	20.66	20.25	0.106
				100	0	20.65	20.24	0.106
	1745	20300		1	0	21.83	21.42	0.139
				1	49	21.88	21.47	0.140
				1	99	21.98	21.57	0.144
				50	0	20.59	20.18	0.104
				50	24	20.66	20.25	0.106
				50	50	20.72	20.31	0.107
				100	0	20.68	20.27	0.106

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	
QPSK	1720	20050	20	1	0	22.56	22.15	0.164	
				1	49	22.37	21.96	0.157	
				1	99	22.37	21.96	0.157	
				50	0	21.44	21.03	0.127	
				50	24	21.39	20.98	0.125	
				50	50	21.41	21.00	0.126	
	1732.5	20175		100	0	21.44	21.03	0.127	
				1	0	22.43	22.02	0.159	
				1	49	22.53	22.12	0.163	
				1	99	22.55	22.14	0.164	
				50	0	21.43	21.02	0.126	
				50	24	21.31	20.90	0.123	
	1745	20300		50	50	21.55	21.14	0.130	
				100	0	21.29	20.88	0.122	
				1	0	22.44	22.03	0.160	
				1	49	22.42	22.01	0.159	
				1	99	22.64	22.23	0.167	
				50	0	21.6	21.19	0.132	
					50	24	21.49	21.08	0.128
					50	50	21.53	21.12	0.129
					100	0	21.76	21.35	0.136