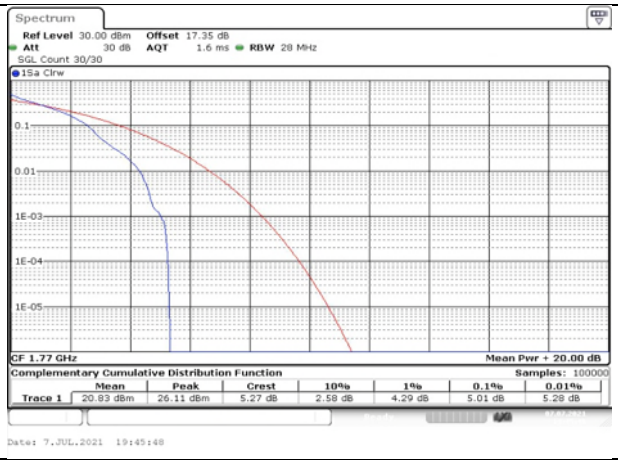

Fig.103

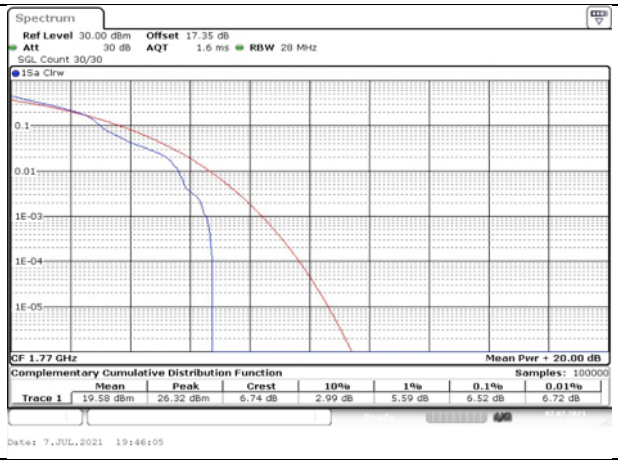

Fig.104

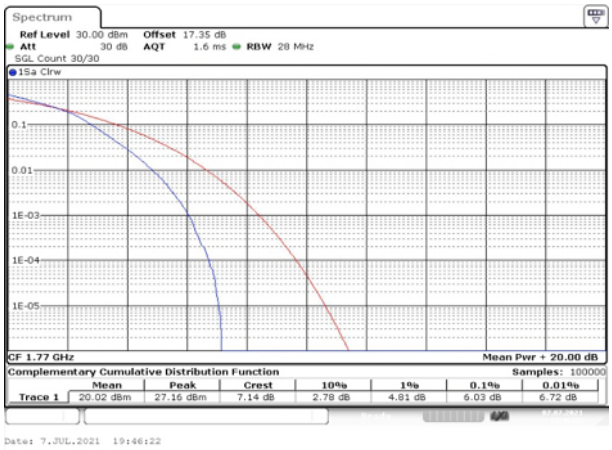

Fig.105

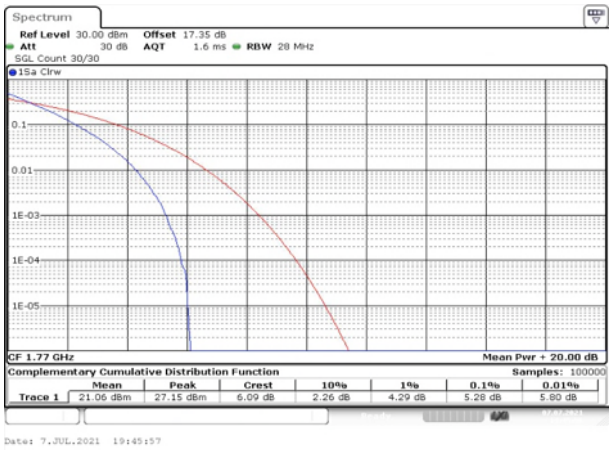

Fig.106

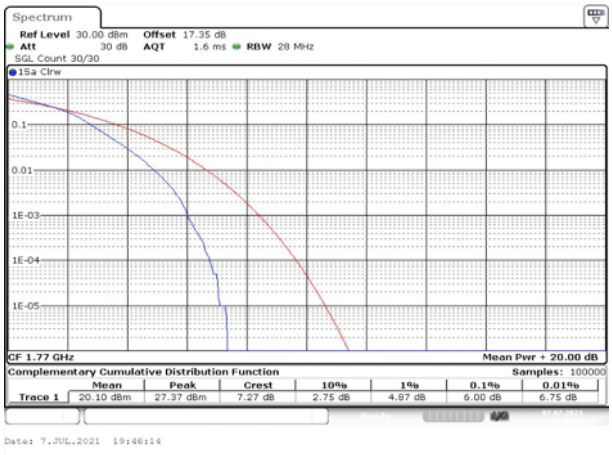

Fig.107

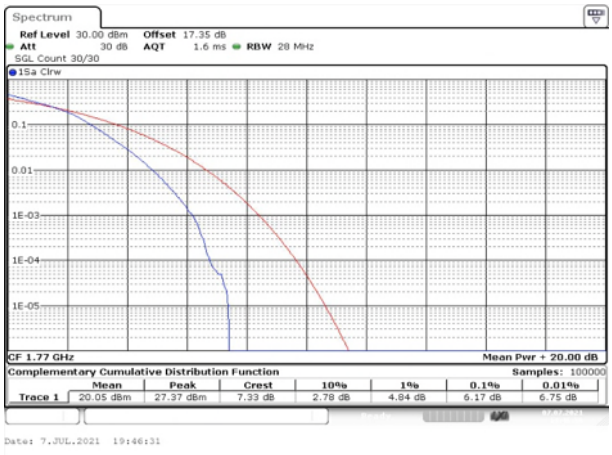

Fig.108

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
66	1720	132072	20	1	0	Fig.1
	1755	132422		1	0	Fig.2
	1770	132572		1	0	Fig.3

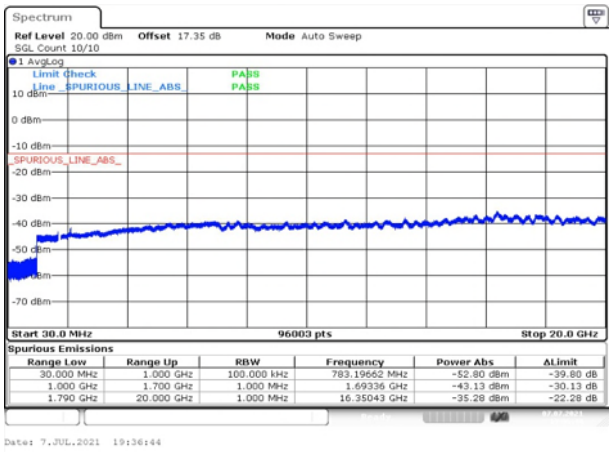

Fig.1

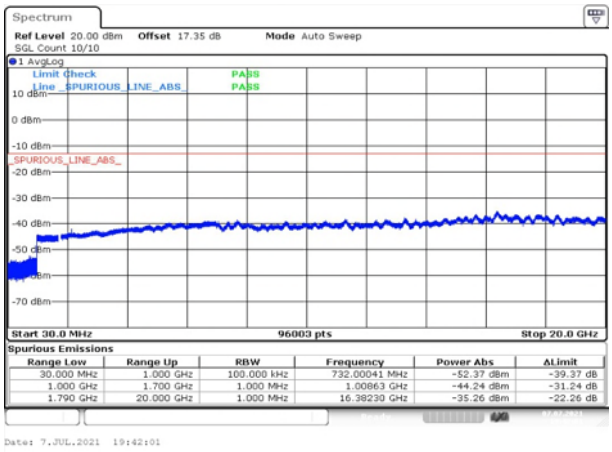

Fig.2

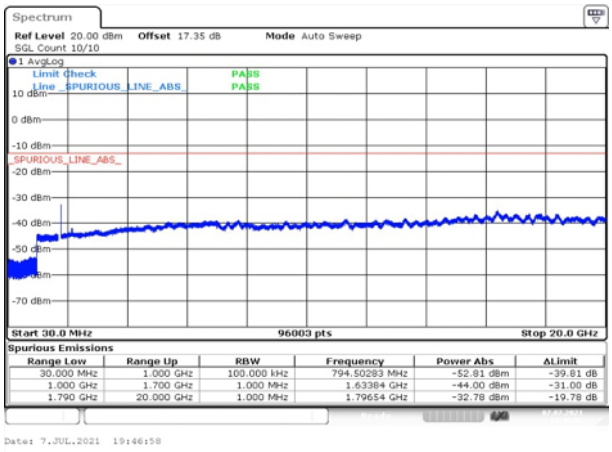

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
66	1710.7	131979	1.4	1	0	Fig.1
				6	0	Fig.2
	1779.3	132665		1	5	Fig.3
				6	0	Fig.4
	1711.5	131987	3	1	0	Fig.5
				15	0	Fig.6
	1778.5	132657		1	14	Fig.7
				15	0	Fig.8
	1712.5	131997	5	1	0	Fig.9
				25	0	Fig.10
	1777.5	132647		1	24	Fig.11
				25	0	Fig.12
	1715	132022	10	1	0	Fig.13
				50	0	Fig.14
	1775	132622		1	49	Fig.15
				50	0	Fig.16
	1717.5	132047	15	1	0	Fig.17
				75	0	Fig.18
	1772.5	132597		1	74	Fig.19
				75	0	Fig.20
	1720	132072	20	1	0	Fig.21
				100	0	Fig.22
	1770	132572		1	99	Fig.23
				100	0	Fig.24

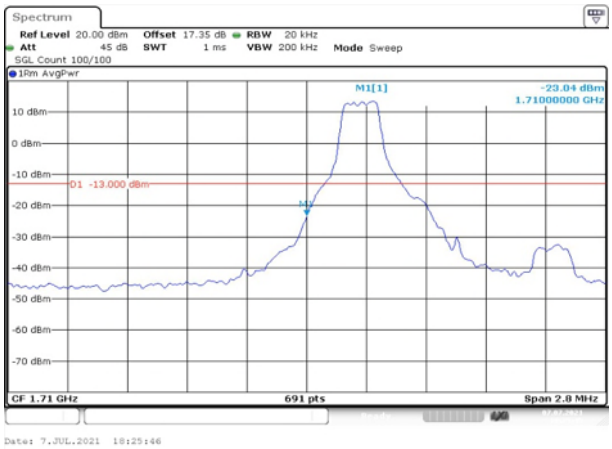

Fig.1

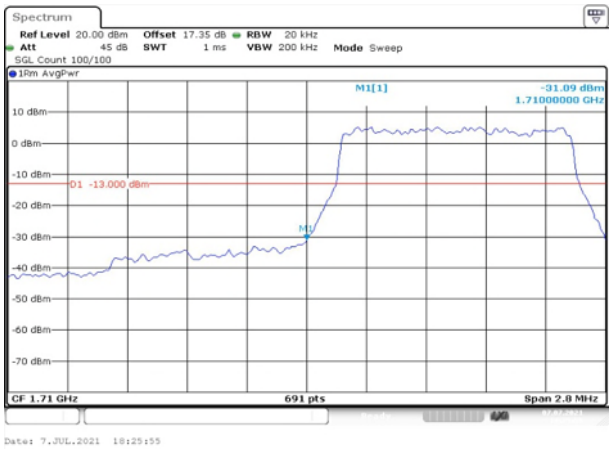

Fig.2

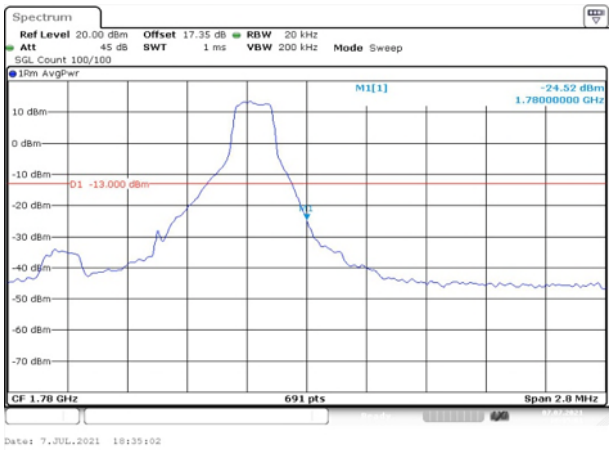

Fig.3

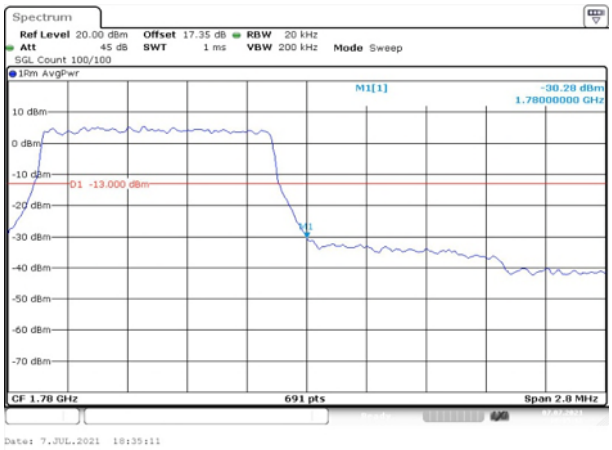

Fig.4

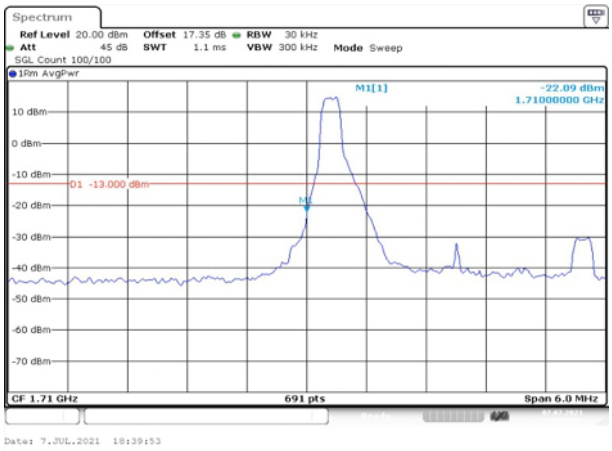

Fig.5

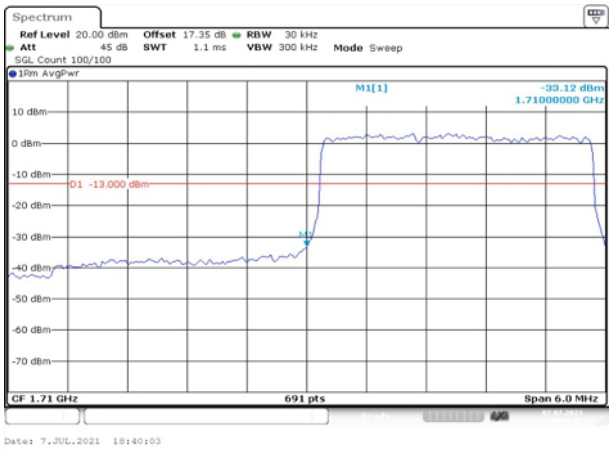

Fig.6

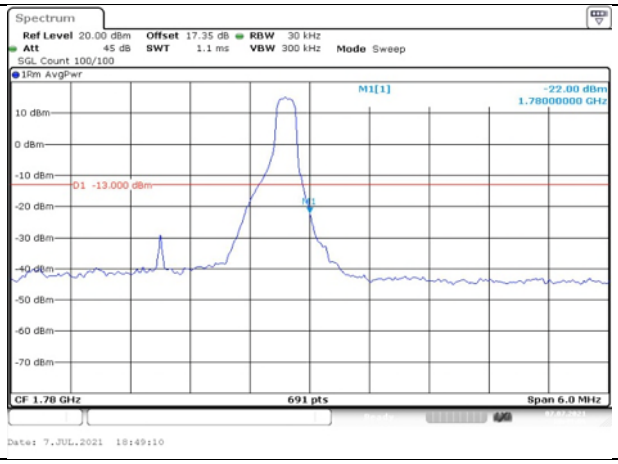

Fig.7

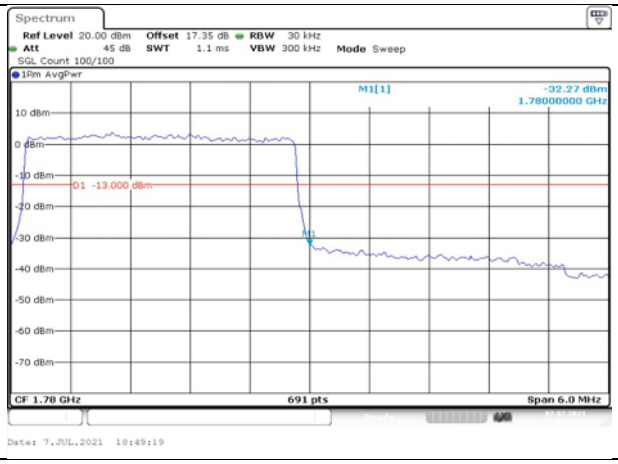

Fig.8

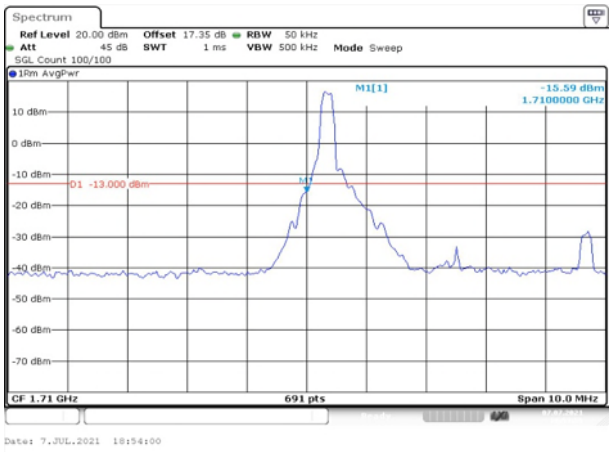

Fig.9

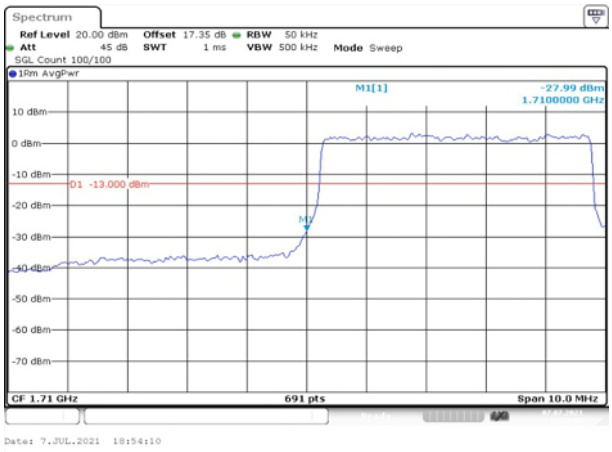

Fig.10

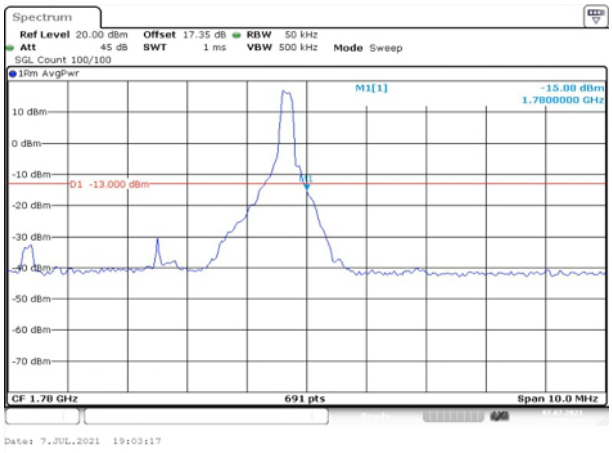

Fig.11

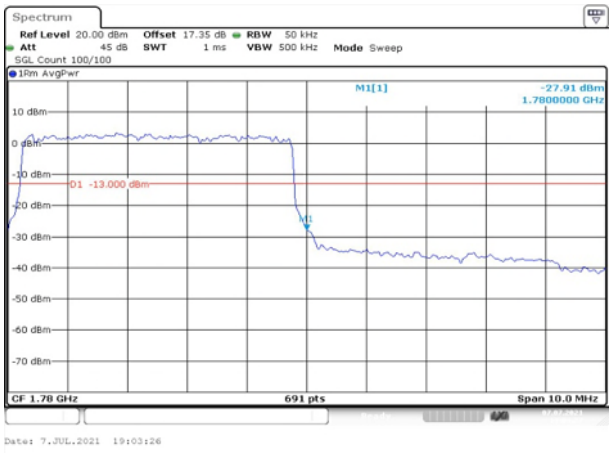

Fig.12

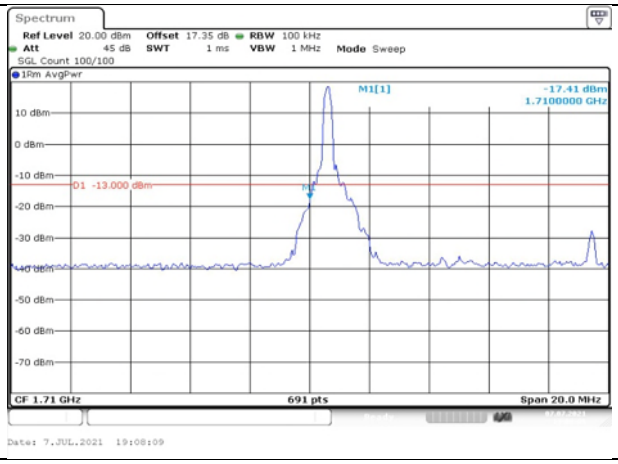

Fig.13

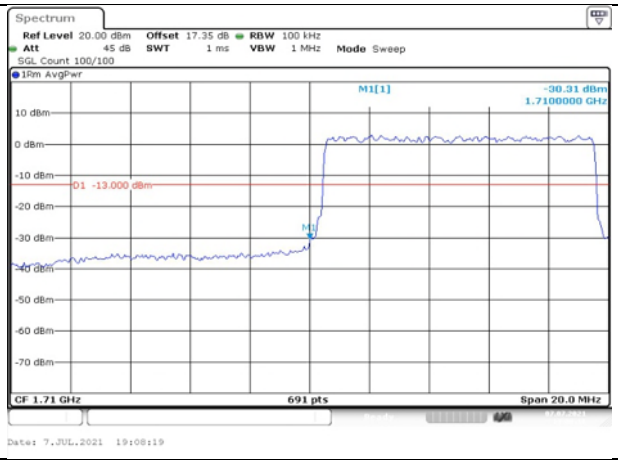

Fig.14

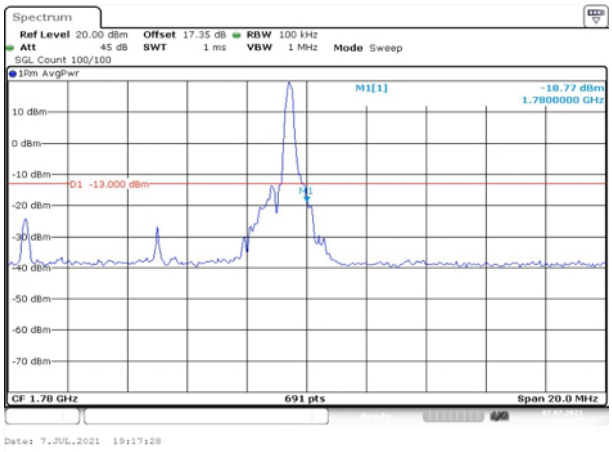

Fig.15

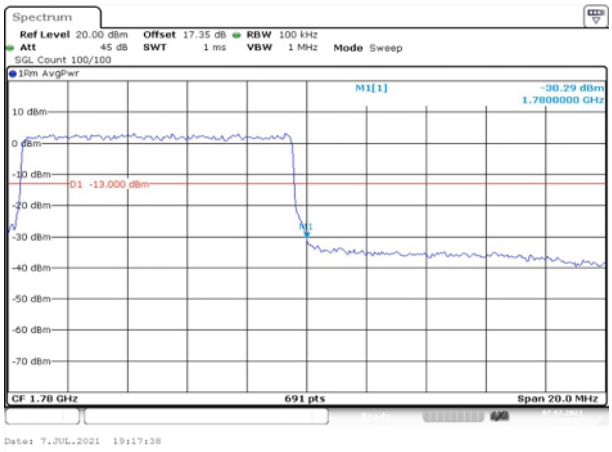

Fig.16

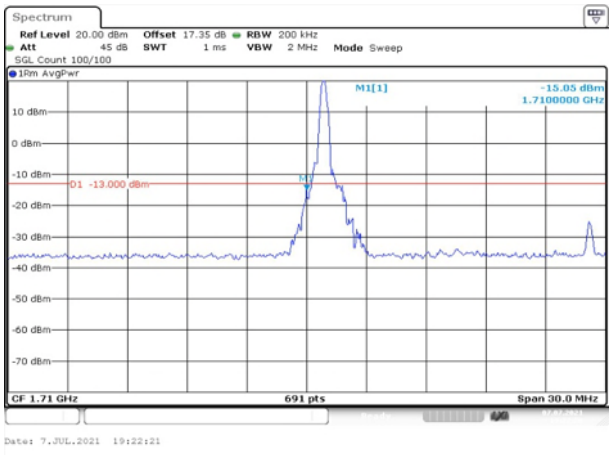

Fig.17

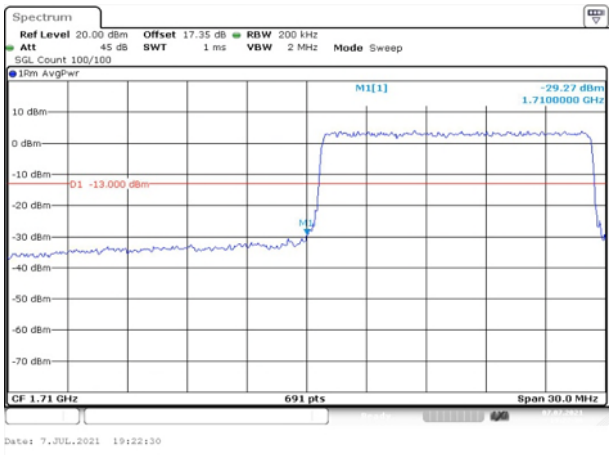

Fig.18

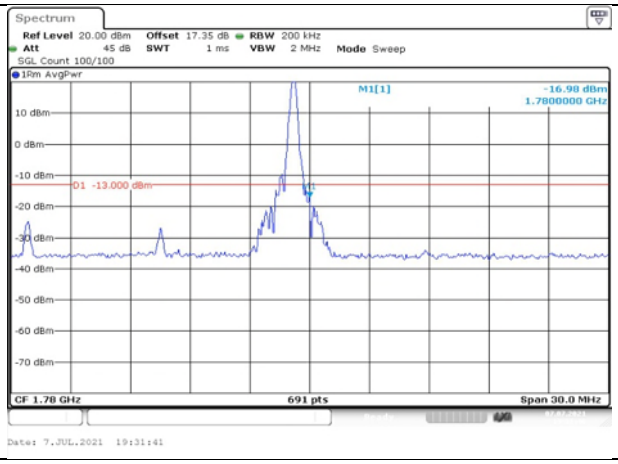

Fig.19

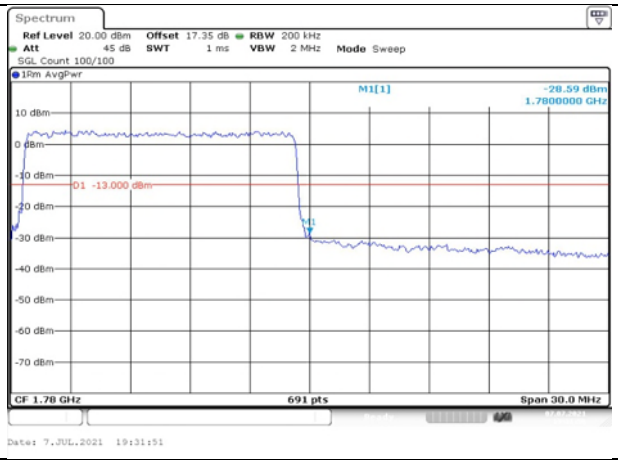

Fig.20

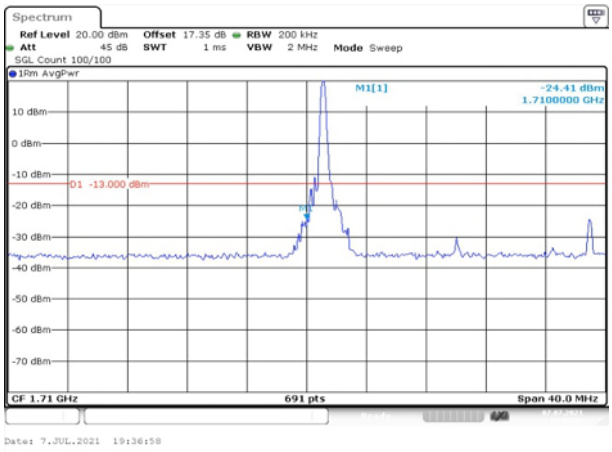

Fig.21

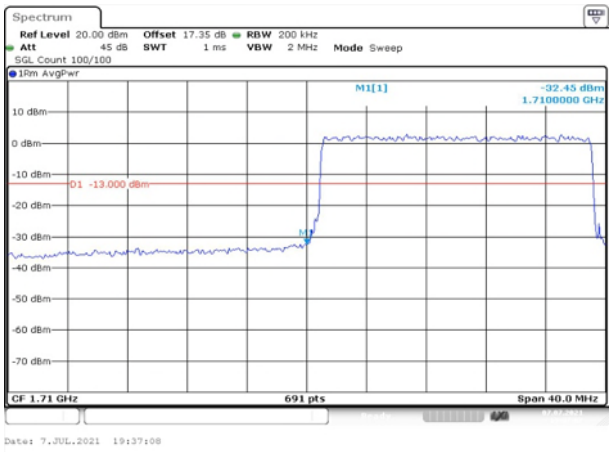

Fig.22

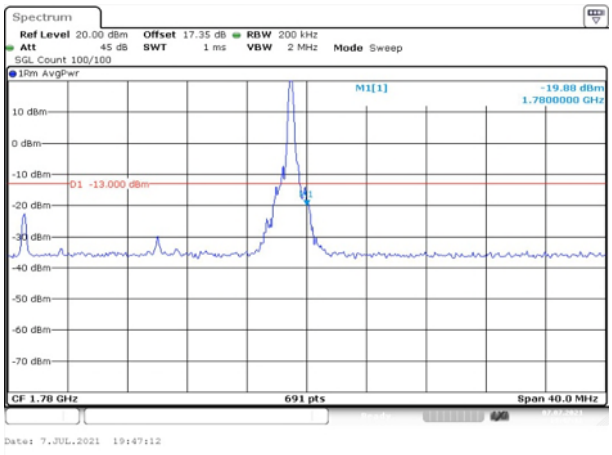

Fig.23

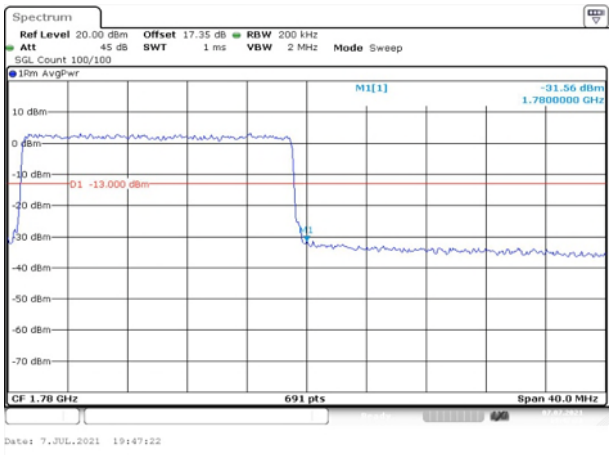

Fig.24

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band66 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.008	0.000	0.003	-0.002	0.000	0.001
+10	NV	-0.002	0.001	0.001	-0.006	0.000	-0.004
+20	NV	-0.012	0.001	-0.006	0.002	-0.009	-0.011
+30	NV	-0.032	-0.006	-0.003	0.000	-0.003	-0.006
+40	NV	-0.010	-0.012	0.000	-0.009	-0.006	0.001
+55	NV	-0.016	-0.015	-0.012	-0.006	-0.006	-0.007
+20	LV	0.001	-0.003	0.000	-0.001	-0.002	-0.004
+20	HV	-0.007	-0.008	-0.009	-0.004	-0.009	-0.008

Temperature(°C)	Voltage	Test Result (ppm) Band66 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.004	0.000	-0.005	-0.005	-0.007	-0.006
+10	NV	-0.004	-0.001	0.001	-0.002	-0.001	-0.003
+20	NV	-0.004	-0.015	0.003	-0.009	0.002	-0.012
+30	NV	-0.011	-0.006	-0.008	0.001	-0.006	-0.005
+40	NV	-0.004	-0.015	-0.010	-0.011	0.000	0.000
+55	NV	-0.015	-0.015	0.003	-0.014	-0.010	-0.004
+20	LV	-0.008	-0.007	-0.002	-0.004	0.001	0.000
+20	HV	-0.011	-0.009	-0.002	0.000	-0.006	0.002

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	1710.7	131979	1.4	1	0	23.70	22.20	0.166
				1	3	23.68	22.18	0.165
				1	5	23.63	22.13	0.163
				3	0	23.66	22.16	0.164
				3	1	23.82	22.32	0.171
				3	3	23.77	22.27	0.169
				6	0	22.80	21.30	0.135
	1755	132422		1	0	23.83	22.33	0.171
				1	3	23.42	21.92	0.156
				1	5	23.40	21.90	0.155
				3	0	23.56	22.06	0.161
				3	1	23.48	21.98	0.158
				3	3	23.58	22.08	0.161
				6	0	22.49	20.99	0.126
	1779.3	132665		1	0	23.33	21.83	0.152
				1	3	23.34	21.84	0.153
				1	5	23.33	21.83	0.152
				3	0	23.50	22.00	0.158
				3	1	23.38	21.88	0.154
				3	3	23.45	21.95	0.157
				6	0	22.51	21.01	0.126
16QAM	1710.7	131979		1	0	22.81	21.31	0.135
				1	3	22.82	21.32	0.136
				1	5	22.82	21.32	0.136
				3	0	23.06	21.56	0.143
				3	1	23.03	21.53	0.142
				3	3	23.11	21.61	0.145
				6	0	21.88	20.38	0.109
	1755	132422		1	0	22.49	20.99	0.126
				1	3	22.61	21.11	0.129
				1	5	22.52	21.02	0.126
				3	0	22.54	21.04	0.127
				3	1	22.47	20.97	0.125
				3	3	22.54	21.04	0.127
				6	0	21.39	19.89	0.097
	1779.3	132665		1	0	22.43	20.93	0.124
				1	3	22.44	20.94	0.124
				1	5	22.48	20.98	0.125
				3	0	22.56	21.06	0.128
				3	1	22.44	20.94	0.124
				3	3	22.56	21.06	0.128
				6	0	21.41	19.91	0.098

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1710.7	131979	1.4	1	0	21.85	20.35	0.108
				1	3	21.87	20.37	0.109
				1	5	21.82	20.32	0.108
				3	0	21.94	20.44	0.111
				3	1	21.54	20.04	0.101
				3	3	21.28	19.78	0.095
				6	0	21.53	20.03	0.101
	1755	132422		1	0	21.46	19.96	0.099
				1	3	21.43	19.93	0.098
				1	5	21.32	19.82	0.096
				3	0	21.48	19.98	0.100
				3	1	21.33	19.83	0.096
				3	3	21.41	19.91	0.098
				6	0	21.44	19.94	0.099
	1779.3	132665		1	0	21.37	19.87	0.097
				1	3	21.31	19.81	0.096
				1	5	21.34	19.84	0.096
				3	0	21.34	19.84	0.096
				3	1	21.34	19.84	0.096
				3	3	21.34	19.84	0.096
				6	0	21.39	19.89	0.097

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1711.5	131987	3	1	0	23.38	21.88	0.154
				1	8	23.34	21.84	0.153
				1	14	23.40	21.90	0.155
				8	0	22.42	20.92	0.124
				8	4	22.33	20.83	0.121
				8	7	22.42	20.92	0.124
				15	0	22.42	20.92	0.124
	1755	132422		1	0	23.45	21.95	0.157
				1	8	23.52	22.02	0.159
				1	14	23.48	21.98	0.158
				8	0	22.51	21.01	0.126
				8	4	22.57	21.07	0.128
				8	7	22.50	21.00	0.126
				15	0	22.46	20.96	0.125
	1778.5	132657		1	0	23.45	21.95	0.157
				1	8	23.45	21.95	0.157
				1	14	23.42	21.92	0.156
				8	0	22.48	20.98	0.125
				8	4	22.45	20.95	0.124
				8	7	22.46	20.96	0.125
				15	0	22.46	20.96	0.125
16QAM	1711.5	131987		1	0	22.53	21.03	0.127
				1	8	22.47	20.97	0.125
				1	14	22.51	21.01	0.126
				8	0	21.43	19.93	0.098
				8	4	21.42	19.92	0.098
				8	7	21.39	19.89	0.097
				15	0	21.41	19.91	0.098
	1755	132422		1	0	22.68	21.18	0.131
				1	8	22.68	21.18	0.131
				1	14	22.62	21.12	0.129
				8	0	21.57	20.07	0.102
				8	4	21.50	20.00	0.100
				8	7	21.52	20.02	0.100
				15	0	21.54	20.04	0.101
	1778.5	132657		1	0	22.61	21.11	0.129
				1	8	22.52	21.02	0.126
				1	14	22.50	21.00	0.126
				8	0	21.53	20.03	0.101
				8	4	21.45	19.95	0.099
				8	7	21.43	19.93	0.098
				15	0	21.53	20.03	0.101

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1711.5	131987	3	1	0	21.39	19.89	0.097
				1	8	21.35	19.85	0.097
				1	14	21.40	19.90	0.098
				8	0	21.42	19.92	0.098
				8	4	21.47	19.97	0.099
				8	7	21.39	19.89	0.097
				15	0	21.44	19.94	0.099
	1755	132422		1	0	21.62	20.12	0.103
				1	8	21.52	20.02	0.100
				1	14	21.56	20.06	0.101
				8	0	21.57	20.07	0.102
				8	4	21.54	20.04	0.101
				8	7	21.53	20.03	0.101
				15	0	21.48	19.98	0.100
	1778.5	132657		1	0	21.47	19.97	0.099
				1	8	21.54	20.04	0.101
				1	14	21.54	20.04	0.101
				8	0	21.47	19.97	0.099
				8	4	21.51	20.01	0.100
				8	7	21.53	20.03	0.101
				15	0	21.53	20.03	0.101

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1712.5	131997	5	1	0	23.29	21.79	0.151
				1	12	23.21	21.71	0.148
				1	24	23.31	21.81	0.152
				12	0	22.38	20.88	0.122
				12	7	22.42	20.92	0.124
				12	13	22.44	20.94	0.124
				25	0	22.37	20.87	0.122
	1755	132422		1	0	23.41	21.91	0.155
				1	12	23.40	21.90	0.155
				1	24	23.51	22.01	0.159
				12	0	22.46	20.96	0.125
				12	7	22.55	21.05	0.127
				12	13	22.49	20.99	0.126
				25	0	22.50	21.00	0.126
	1777.5	132647		1	0	23.38	21.88	0.154
				1	12	23.32	21.82	0.152
				1	24	23.38	21.88	0.154
				12	0	22.45	20.95	0.124
				12	7	22.50	21.00	0.126
				12	13	22.42	20.92	0.124
				25	0	22.51	21.01	0.126
16QAM	1712.5	131997		1	0	22.39	20.89	0.123
				1	12	22.36	20.86	0.122
				1	24	22.33	20.83	0.121
				12	0	21.35	19.85	0.097
				12	7	21.34	19.84	0.096
				12	13	21.38	19.88	0.097
				25	0	21.40	19.90	0.098
	1755	132422		1	0	22.57	21.07	0.128
				1	12	22.56	21.06	0.128
				1	24	22.55	21.05	0.127
				12	0	21.45	19.95	0.099
				12	7	21.48	19.98	0.100
				12	13	21.44	19.94	0.099
				25	0	21.51	20.01	0.100
	1777.5	132647		1	0	22.50	21.00	0.126
				1	12	22.46	20.96	0.125
				1	24	22.44	20.94	0.124
				12	0	21.46	19.96	0.099
				12	7	21.29	19.79	0.095
				12	13	21.40	19.90	0.098
				25	0	21.48	19.98	0.100

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1712.5	131997	5	1	0	21.45	19.95	0.099
				1	12	21.39	19.89	0.097
				1	24	21.47	19.97	0.099
				12	0	21.43	19.93	0.098
				12	7	21.40	19.90	0.098
				12	13	21.40	19.90	0.098
				25	0	21.43	19.93	0.098
	1755	132422		1	0	21.53	20.03	0.101
				1	12	21.46	19.96	0.099
				1	24	21.50	20.00	0.100
				12	0	21.52	20.02	0.100
				12	7	21.51	20.01	0.100
				12	13	21.57	20.07	0.102
				25	0	21.45	19.95	0.099
	1777.5	132647		1	0	21.46	19.96	0.099
				1	12	21.46	19.96	0.099
				1	24	21.44	19.94	0.099
				12	0	21.46	19.96	0.099
				12	7	21.48	19.98	0.100
				12	13	21.48	19.98	0.100
				25	0	21.45	19.95	0.099

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1715	132022	10	1	0	23.36	21.86	0.153
				1	25	23.28	21.78	0.151
				1	49	23.27	21.77	0.150
				25	0	22.37	20.87	0.122
				25	12	22.39	20.89	0.123
				25	25	22.36	20.86	0.122
				50	0	22.44	20.94	0.124
	1755	132422		1	0	23.44	21.94	0.156
				1	25	23.47	21.97	0.157
				1	49	23.58	22.08	0.161
				25	0	22.54	21.04	0.127
				25	12	22.69	21.19	0.132
				25	25	22.60	21.10	0.129
				50	0	22.56	21.06	0.128
	1775	132622		1	0	23.62	22.12	0.163
				1	25	23.43	21.93	0.156
				1	49	23.40	21.90	0.155
				25	0	22.65	21.15	0.130
				25	12	22.49	20.99	0.126
				25	25	22.54	21.04	0.127
				50	0	22.62	21.12	0.129
16QAM	1715	132022		1	0	22.51	21.01	0.126
				1	25	22.40	20.90	0.123
				1	49	22.35	20.85	0.122
				25	0	21.52	20.02	0.100
				25	12	21.47	19.97	0.099
				25	25	21.46	19.96	0.099
				50	0	21.47	19.97	0.099
	1755	132422		1	0	22.62	21.12	0.129
				1	25	22.69	21.19	0.132
				1	49	22.60	21.10	0.129
				25	0	21.64	20.14	0.103
				25	12	21.58	20.08	0.102
				25	25	21.67	20.17	0.104
				50	0	21.57	20.07	0.102
	1775	132622		1	0	22.70	21.20	0.132
				1	25	22.51	21.01	0.126
				1	49	22.59	21.09	0.129
				25	0	21.66	20.16	0.104
				25	12	21.71	20.21	0.105
				25	25	21.68	20.18	0.104
				50	0	21.60	20.10	0.102

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1715	132022	10	1	0	21.38	19.88	0.097
				1	25	21.45	19.95	0.099
				1	49	21.46	19.96	0.099
				25	0	21.46	19.96	0.099
				25	12	21.39	19.89	0.097
				25	25	21.44	19.94	0.099
				50	0	21.43	19.93	0.098
	1755	132422		1	0	21.54	20.04	0.101
				1	25	21.60	20.10	0.102
				1	49	21.64	20.14	0.103
				25	0	21.54	20.04	0.101
				25	12	21.58	20.08	0.102
				25	25	21.51	20.01	0.100
				50	0	21.54	20.04	0.101
	1775	132622		1	0	21.55	20.05	0.101
				1	25	21.65	20.15	0.104
				1	49	21.53	20.03	0.101
				25	0	21.63	20.13	0.103
				25	12	21.52	20.02	0.100
				25	25	21.62	20.12	0.103
				50	0	21.61	20.11	0.103

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1717.5	132047	15	1	0	23.35	21.85	0.153
				1	37	23.25	21.75	0.150
				1	74	23.25	21.75	0.150
				36	0	22.46	20.96	0.125
				36	29	22.44	20.94	0.124
				36	30	22.41	20.91	0.123
				75	0	22.44	20.94	0.124
	1755	132422		1	0	23.41	21.91	0.155
				1	37	23.46	21.96	0.157
				1	74	23.43	21.93	0.156
				36	0	22.58	21.08	0.128
				36	29	22.71	21.21	0.132
				36	30	22.62	21.12	0.129
				75	0	22.64	21.14	0.130
	1772.5	132597		1	0	23.55	22.05	0.160
				1	37	23.36	21.86	0.153
				1	74	23.42	21.92	0.156
				36	0	22.60	21.10	0.129
				36	29	22.60	21.10	0.129
				36	30	22.64	21.14	0.130
				75	0	22.68	21.18	0.131
16QAM	1717.5	132047		1	0	22.85	21.35	0.136
				1	37	22.79	21.29	0.135
				1	74	22.74	21.24	0.133
				36	0	21.40	19.90	0.098
				36	29	21.38	19.88	0.097
				36	30	21.35	19.85	0.097
				75	0	21.36	19.86	0.097
	1755	132422		1	0	22.94	21.44	0.139
				1	37	22.92	21.42	0.139
				1	74	22.95	21.45	0.140
				36	0	21.55	20.05	0.101
				36	29	21.51	20.01	0.100
				36	30	21.61	20.11	0.103
				75	0	21.53	20.03	0.101
	1772.5	132597		1	0	23.00	21.50	0.141
				1	37	22.80	21.30	0.135
				1	74	22.87	21.37	0.137
				36	0	21.64	20.14	0.103
				36	29	21.57	20.07	0.102
				36	30	21.57	20.07	0.102
				75	0	21.61	20.11	0.103

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1717.5	132047	15	1	0	21.36	19.86	0.097
				1	37	21.38	19.88	0.097
				1	74	21.39	19.89	0.097
				36	0	21.36	19.86	0.097
				36	29	21.38	19.88	0.097
				36	30	21.41	19.91	0.098
				75	0	21.35	19.85	0.097
	1755	132422		1	0	21.57	20.07	0.102
				1	37	21.50	20.00	0.100
				1	74	21.65	20.15	0.104
				36	0	21.56	20.06	0.101
				36	29	21.56	20.06	0.101
				36	30	21.52	20.02	0.100
				75	0	21.52	20.02	0.100
	1772.5	132597		1	0	21.48	19.98	0.100
				1	37	21.64	20.14	0.103
				1	74	21.62	20.12	0.103
				36	0	21.63	20.13	0.103
				36	29	21.62	20.12	0.103
				36	30	21.62	20.12	0.103
				75	0	21.62	20.12	0.103

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	1720	132072	20	1	0	23.04	21.54	0.143
				1	49	23.00	21.50	0.141
				1	99	23.02	21.52	0.142
				50	0	22.41	20.91	0.123
				50	24	22.29	20.79	0.120
				50	50	22.37	20.87	0.122
				100	0	22.36	20.86	0.122
	1755	132422		1	0	23.13	21.63	0.146
				1	49	23.21	21.71	0.148
				1	99	23.24	21.74	0.149
				50	0	22.56	21.06	0.128
				50	24	22.52	21.02	0.126
				50	50	22.55	21.05	0.127
				100	0	22.53	21.03	0.127
	1770	132572		1	0	23.27	21.77	0.150
				1	49	23.09	21.59	0.144
				1	99	23.15	21.65	0.146
				50	0	22.55	21.05	0.127
				50	24	22.55	21.05	0.127
				50	50	22.57	21.07	0.128
				100	0	22.51	21.01	0.126
16QAM	1720	132072		1	0	22.70	21.20	0.132
				1	49	22.63	21.13	0.130
				1	99	22.63	21.13	0.130
				50	0	21.33	19.83	0.096
				50	24	21.29	19.79	0.095
				50	50	21.34	19.84	0.096
				100	0	21.36	19.86	0.097
	1755	132422		1	0	22.76	21.26	0.134
				1	49	22.85	21.35	0.136
				1	99	22.85	21.35	0.136
				50	0	21.55	20.05	0.101
				50	24	21.60	20.10	0.102
				50	50	21.51	20.01	0.100
				100	0	21.58	20.08	0.102
	1770	132572		1	0	22.91	21.41	0.138
				1	49	22.65	21.15	0.130
				1	99	22.74	21.24	0.133
				50	0	21.58	20.08	0.102
				50	24	21.47	19.97	0.099
				50	50	21.52	20.02	0.100
				100	0	21.55	20.05	0.101

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	1720	132072	20	1	0	21.37	19.87	0.097
				1	49	21.34	19.84	0.096
				1	99	21.36	19.86	0.097
				50	0	21.35	19.85	0.097
				50	24	21.40	19.90	0.098
				50	50	21.33	19.83	0.096
				100	0	21.35	19.85	0.097
	1755	132422		1	0	21.53	20.03	0.101
				1	49	21.53	20.03	0.101
				1	99	21.53	20.03	0.101
				50	0	21.50	20.00	0.100
				50	24	21.58	20.08	0.102
				50	50	21.53	20.03	0.101
				100	0	21.54	20.04	0.101
	1770	132572		1	0	21.57	20.07	0.102
				1	49	21.53	20.03	0.101
				1	99	21.62	20.12	0.103
				50	0	21.56	20.06	0.101
				50	24	21.54	20.04	0.101
				50	50	21.59	20.09	0.102
				100	0	21.55	20.05	0.101