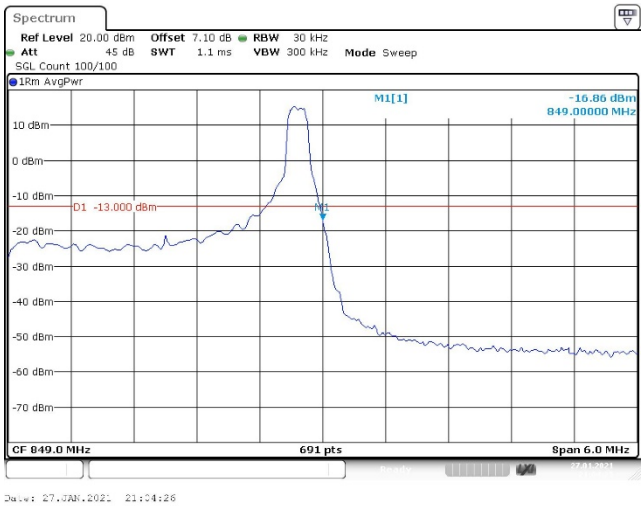


Fig.7

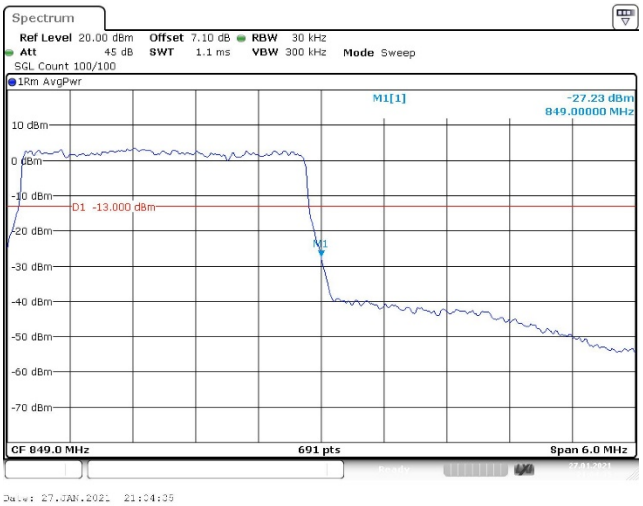


Fig.8

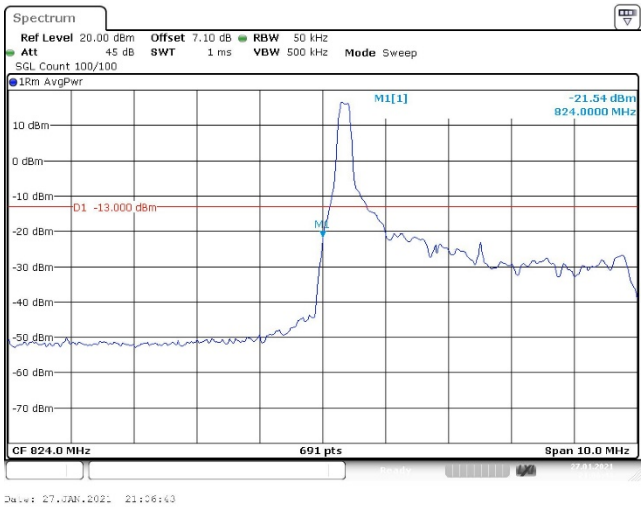


Fig.9

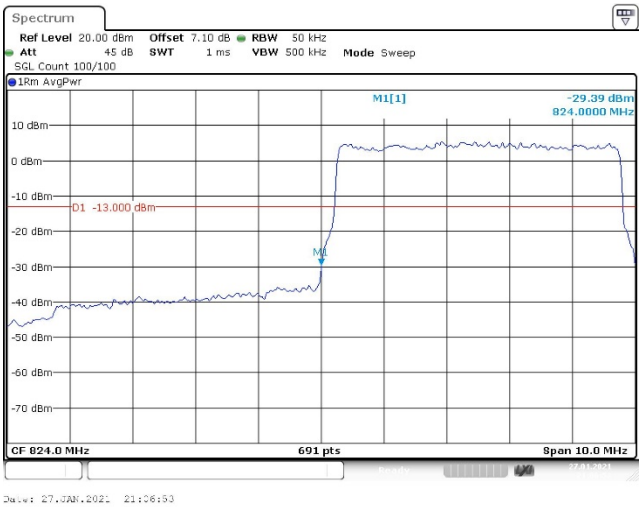


Fig.10

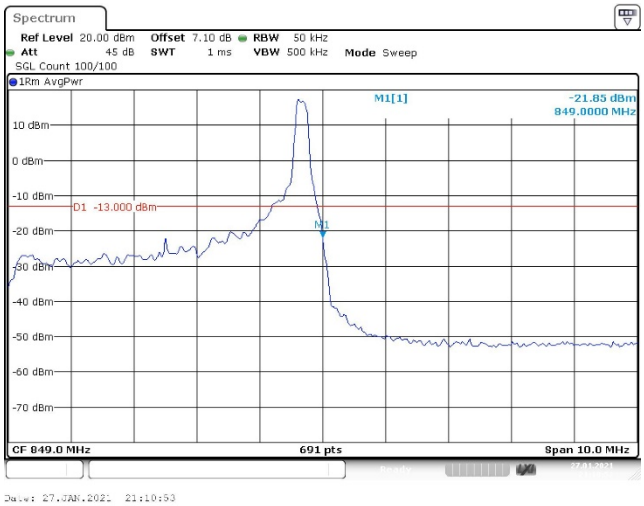


Fig.11

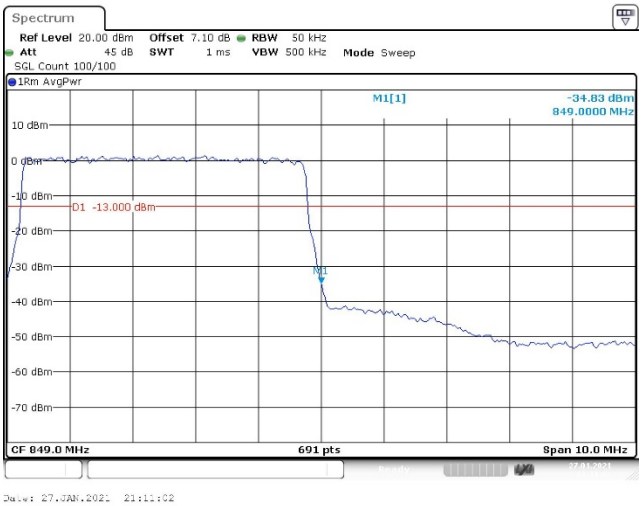


Fig.12

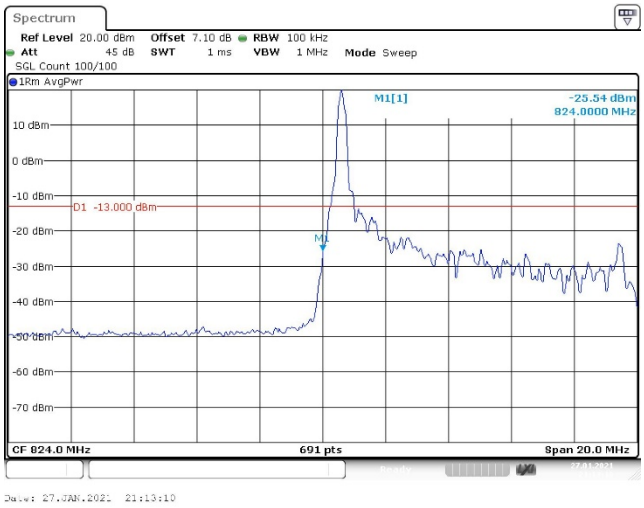


Fig.13

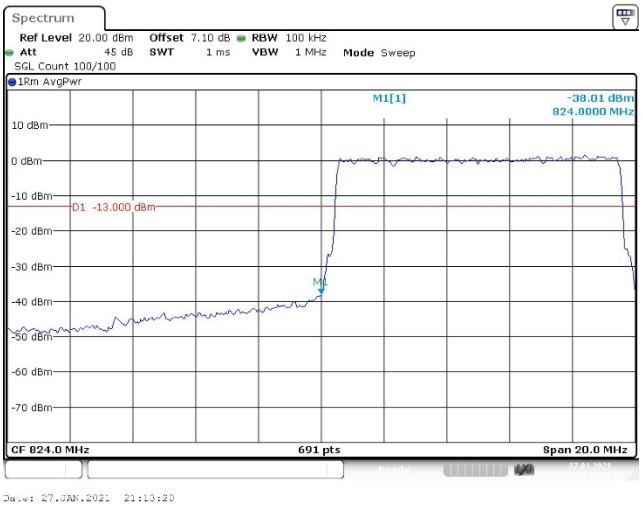


Fig.14

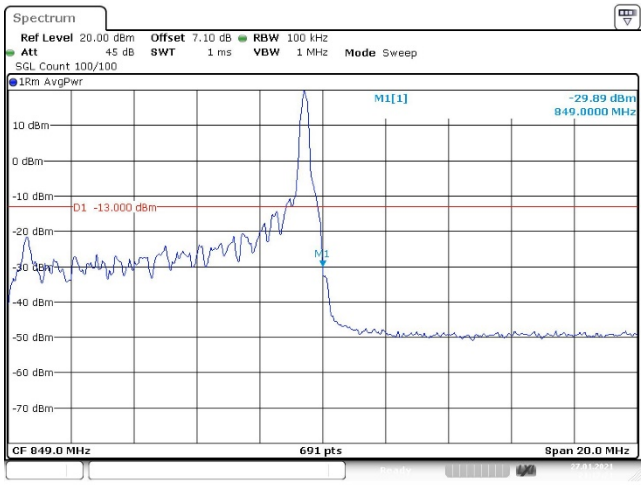


Fig.15

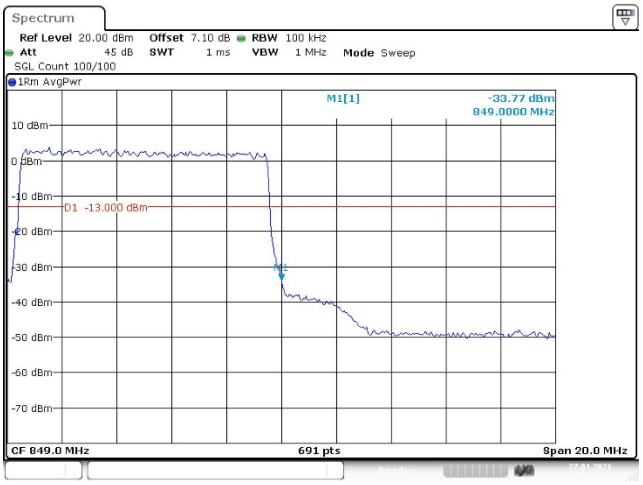


Fig.16

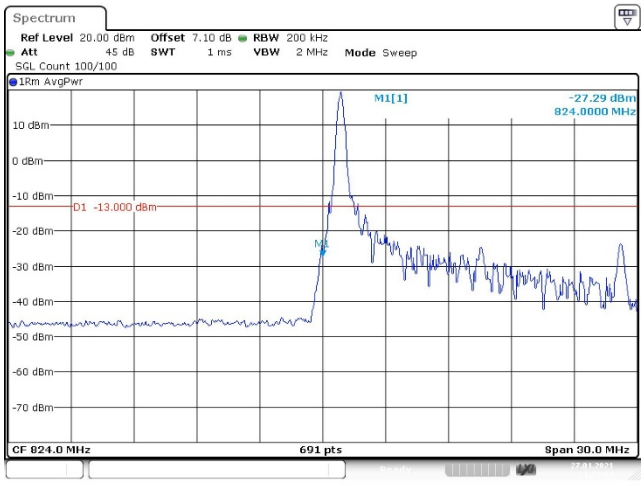


Fig.17

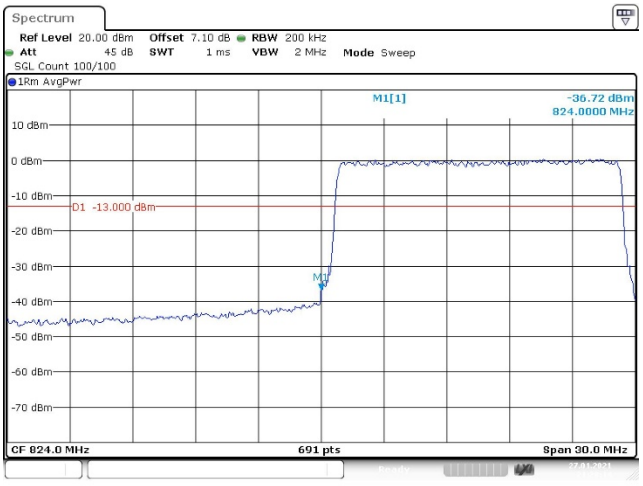
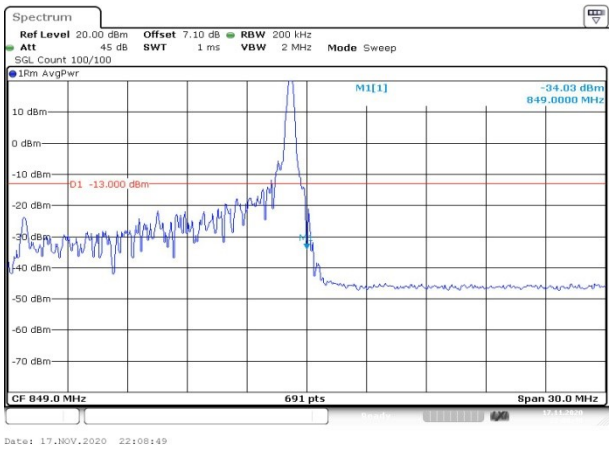


Fig.18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Att 45 dB SWT 1 ms VBW 2 MHz Mode Sweep
SGL Count 100/100
1Rm AvgPwr
M1[1] -34.03 dBm
849.0000 MHz
D1 -13.000 dBm
CF 849.0 MHz 691 pts Span 30.0 MHz
Date: 17.NOV.2020 22:08:49

Fig.19

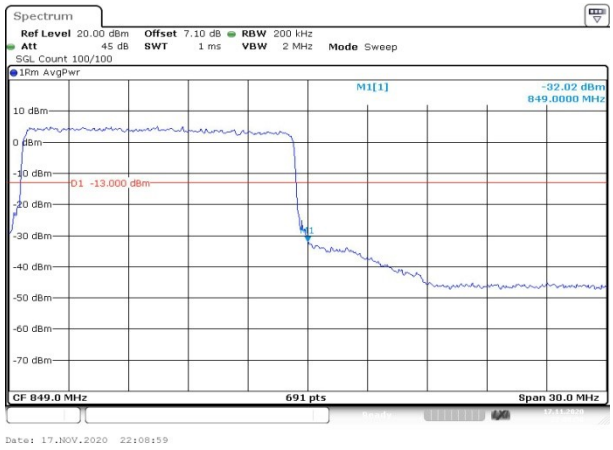
Spectrum
Ref Level 20.00 dBm Offset 7.10 dB RBW 200 kHz
Att 45 dB SWT 1 ms VBW 2 MHz Mode Sweep
SGL Count 100/100
1Rm AvgPwr
M1[1] -32.02 dBm
849.0000 MHz
D1 -13.000 dBm
CF 849.0 MHz 691 pts Span 30.0 MHz
Date: 17.NOV.2020 22:08:59

Fig.20

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band26(824-849) Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.022	-0.045	0.014	-0.056	-0.033	---
0	NV	0.008	-0.043	0.005	-0.051	-0.051	---
+10	NV	0.013	-0.051	0.022	-0.048	-0.042	---
+20	NV	0.000	0.000	0.000	0.000	0.000	---
+30	NV	0.007	-0.033	0.003	-0.040	-0.001	---
+40	NV	-0.036	-0.028	0.003	-0.039	-0.037	---
+50	NV	0.029	-0.046	-0.001	-0.031	-0.034	---
+55	NV	0.003	-0.023	0.014	-0.001	-0.009	---
+20	LV	0.011	-0.022	0.019	-0.046	-0.032	---
+20	HV	0.005	-0.051	0.014	-0.021	-0.036	---

Temperature(°C)	Voltage	Test Result (ppm) Band26(824-849) High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.012	0.012	0.047	0.005	0.023	---
0	NV	0.017	0.017	0.042	0.059	0.031	---
+10	NV	0.008	0.022	0.047	0.008	0.021	---
+20	NV	0.000	0.000	0.000	0.000	0.000	---
+30	NV	0.001	0.024	0.053	0.006	0.019	---
+40	NV	-0.009	0.016	0.053	0.061	0.018	---
+50	NV	0.010	0.014	0.055	0.003	0.026	---
+55	NV	-0.002	-0.016	0.002	0.025	0.008	---
+20	LV	0.008	0.049	0.043	0.052	0.022	---
+20	HV	0.031	0.015	0.040	0.056	0.024	---

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	824.7	26797	1.4	1	0	24.20	21.51	0.142
				1	3	24.17	21.48	0.141
				1	5	24.12	21.43	0.139
				3	0	23.30	20.61	0.115
				3	1	23.32	20.63	0.116
				3	3	23.28	20.59	0.115
				6	0	23.18	20.49	0.112
	836.5	26915		1	0	23.73	21.04	0.127
				1	3	23.73	21.04	0.127
				1	5	23.72	21.03	0.127
				3	0	23.18	20.49	0.112
				3	1	23.19	20.50	0.112
				3	3	23.08	20.39	0.109
				6	0	22.97	20.28	0.107
	848.3	27033		1	0	23.87	21.18	0.131
				1	3	23.90	21.21	0.132
				1	5	23.96	21.27	0.134
				3	0	23.25	20.56	0.114
				3	1	23.29	20.60	0.115
				3	3	23.37	20.68	0.117
				6	0	22.17	19.48	0.089
16QAM	824.7	26797		1	0	23.02	20.33	0.108
				1	3	23.12	20.43	0.110
				1	5	22.97	20.28	0.107
				3	0	22.01	19.32	0.086
				3	1	22.10	19.41	0.087
				3	3	22.12	19.43	0.088
				6	0	21.99	19.30	0.085
	836.5	26915		1	0	22.89	20.20	0.105
				1	3	22.98	20.29	0.107
				1	5	22.79	20.10	0.102
				3	0	22.01	19.32	0.086
				3	1	21.89	19.20	0.083
				3	3	21.94	19.25	0.084
				6	0	22.00	19.31	0.085
	848.3	27033		1	0	22.88	20.19	0.104
				1	3	22.97	20.28	0.107
				1	5	22.90	20.21	0.105
				3	0	22.10	19.41	0.087
				3	1	22.14	19.45	0.088
				3	3	22.10	19.41	0.087
				6	0	22.05	19.36	0.086

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	824.7	26797	1.4	1	0	22.36	19.67	0.093
				1	3	22.36	19.67	0.093
				1	5	22.52	19.83	0.096
				3	0	21.34	18.65	0.073
				3	1	21.33	18.64	0.073
				3	3	21.49	18.80	0.076
				6	0	21.48	18.79	0.076
	836.5	26915		1	0	22.46	19.77	0.095
				1	3	22.44	19.75	0.094
				1	5	22.43	19.74	0.094
				3	0	21.54	18.85	0.077
				3	1	21.53	18.84	0.077
				3	3	21.52	18.83	0.076
				6	0	21.51	18.82	0.076
	848.3	27033		1	0	22.43	19.74	0.094
				1	3	22.41	19.72	0.094
				1	5	22.49	19.80	0.095
				3	0	21.47	18.78	0.076
				3	1	21.42	18.73	0.075
				3	3	21.50	18.81	0.076
				6	0	21.48	18.79	0.076

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	825.5	26805	3	1	0	24.07	21.38	0.137
				1	8	24.12	21.43	0.139
				1	14	24.21	21.52	0.142
				8	0	23.21	20.52	0.113
				8	4	23.25	20.56	0.114
				8	7	23.24	20.55	0.114
				15	0	23.23	20.54	0.113
	836.5	26915		1	0	24.35	21.66	0.147
				1	8	24.44	21.75	0.150
				1	14	24.32	21.63	0.146
				8	0	23.25	20.56	0.114
				8	4	23.29	20.60	0.115
				8	7	23.28	20.59	0.115
				15	0	23.27	20.58	0.114
	847.5	27025		1	0	24.45	21.76	0.150
				1	8	24.60	21.91	0.155
				1	14	24.72	22.03	0.160
				8	0	23.31	20.62	0.115
				8	4	23.43	20.74	0.119
				8	7	23.42	20.73	0.118
				15	0	23.33	20.64	0.116
16QAM	825.5	26805		1	0	23.58	20.89	0.123
				1	8	23.64	20.95	0.124
				1	14	23.63	20.94	0.124
				8	0	22.40	19.71	0.094
				8	4	22.45	19.76	0.095
				8	7	22.45	19.76	0.095
				15	0	22.25	19.56	0.090
	836.5	26915		1	0	23.50	20.81	0.121
				1	8	23.55	20.86	0.122
				1	14	23.55	20.86	0.122
				8	0	22.42	19.73	0.094
				8	4	22.46	19.77	0.095
				8	7	22.30	19.61	0.091
				15	0	22.40	19.71	0.094
	847.5	27025		1	0	23.09	20.40	0.110
				1	8	23.10	20.41	0.110
				1	14	23.09	20.40	0.110
				8	0	22.60	19.91	0.098
				8	4	22.60	19.91	0.098
				8	7	22.56	19.87	0.097
				15	0	22.47	19.78	0.095

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	825.5	26805	3	1	0	22.24	19.55	0.090
				1	8	22.24	19.55	0.090
				1	14	22.23	19.54	0.090
				8	0	21.23	18.54	0.071
				8	4	21.23	18.54	0.071
				8	7	21.23	18.54	0.071
				15	0	21.22	18.53	0.071
	836.5	26915		1	0	22.39	19.70	0.093
				1	8	22.39	19.70	0.093
				1	14	22.39	19.70	0.093
				8	0	21.39	18.70	0.074
				8	4	21.39	18.70	0.074
				8	7	21.39	18.70	0.074
				15	0	21.39	18.70	0.074
	847.5	27025		1	0	22.47	19.78	0.095
				1	8	22.42	19.73	0.094
				1	14	22.47	19.78	0.095
				8	0	21.42	18.73	0.075
				8	4	21.47	18.78	0.076
				8	7	21.38	18.69	0.074
				15	0	21.36	18.67	0.074

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	826.5	26815	5	1	0	24.25	21.56	0.143
				1	12	24.29	21.60	0.145
				1	24	24.20	21.51	0.142
				12	0	23.30	20.61	0.115
				12	7	23.36	20.67	0.117
				12	13	23.36	20.67	0.117
				25	0	23.25	20.56	0.114
	836.5	26915		1	0	24.47	21.78	0.151
				1	12	24.55	21.86	0.153
				1	24	24.62	21.93	0.156
				12	0	23.42	20.73	0.118
				12	7	23.40	20.71	0.118
				12	13	23.40	20.71	0.118
				25	0	23.40	20.71	0.118
	846.5	27015		1	0	24.43	21.74	0.149
				1	12	24.31	21.62	0.145
				1	24	24.28	21.59	0.144
				12	0	23.42	20.73	0.118
				12	7	23.38	20.69	0.117
				12	13	23.37	20.68	0.117
				25	0	23.44	20.75	0.119
16QAM	826.5	26815		1	0	23.34	20.65	0.116
				1	12	23.44	20.75	0.119
				1	24	23.44	20.75	0.119
				12	0	22.18	19.49	0.089
				12	7	22.31	19.62	0.092
				12	13	22.25	19.56	0.090
				25	0	22.44	19.75	0.094
	836.5	26915		1	0	23.41	20.72	0.118
				1	12	23.51	20.82	0.121
				1	24	23.52	20.83	0.121
				12	0	22.33	19.64	0.092
				12	7	22.37	19.68	0.093
				12	13	22.37	19.68	0.093
				25	0	22.34	19.65	0.092
	846.5	27015		1	0	23.04	20.35	0.108
				1	12	23.10	20.41	0.110
				1	24	23.09	20.40	0.110
				12	0	22.27	19.58	0.091
				12	7	22.26	19.57	0.091
				12	13	22.25	19.56	0.090
				25	0	22.29	19.60	0.091

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	826.5	26815	5	1	0	22.43	19.74	0.094
				1	12	22.44	19.75	0.094
				1	24	22.44	19.75	0.094
				12	0	21.45	18.76	0.075
				12	7	21.44	18.75	0.075
				12	13	21.44	18.75	0.075
				25	0	21.45	18.76	0.075
	836.5	26915		1	0	22.34	19.65	0.092
				1	12	22.34	19.65	0.092
				1	24	22.34	19.65	0.092
				12	0	21.34	18.65	0.073
				12	7	21.34	18.65	0.073
				12	13	21.34	18.65	0.073
				25	0	21.35	18.66	0.073
	846.5	27015		1	0	22.29	19.60	0.091
				1	12	22.30	19.61	0.091
				1	24	22.29	19.60	0.091
				12	0	21.29	18.60	0.072
				12	7	21.30	18.61	0.073
				12	13	21.29	18.60	0.072
				25	0	21.29	18.60	0.072

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	829	26840	10	1	0	24.19	21.50	0.141
				1	25	24.27	21.58	0.144
				1	49	24.26	21.57	0.144
				25	0	23.26	20.57	0.114
				25	12	23.30	20.61	0.115
				25	25	23.29	20.60	0.115
				50	0	23.31	20.62	0.115
	836.5	26915		1	0	24.43	21.74	0.149
				1	25	24.50	21.81	0.152
				1	49	24.49	21.80	0.151
				25	0	23.39	20.70	0.117
				25	12	23.39	20.70	0.117
				25	25	23.39	20.70	0.117
				50	0	23.29	20.60	0.115
	844	26990		1	0	24.36	21.67	0.147
				1	25	24.42	21.73	0.149
				1	49	24.43	21.74	0.149
				25	0	23.39	20.70	0.117
				25	12	23.35	20.66	0.116
				25	25	23.34	20.65	0.116
				50	0	23.54	20.85	0.122
16QAM	829	26840		1	0	23.43	20.74	0.119
				1	25	23.57	20.88	0.122
				1	49	23.58	20.89	0.123
				25	0	22.40	19.71	0.094
				25	12	22.34	19.65	0.092
				25	25	22.18	19.49	0.089
				50	0	22.41	19.72	0.094
	836.5	26915		1	0	23.48	20.79	0.120
				1	25	23.53	20.84	0.121
				1	49	23.58	20.89	0.123
				25	0	22.32	19.63	0.092
				25	12	22.44	19.75	0.094
				25	25	22.54	19.85	0.097
				50	0	22.43	19.74	0.094
	844	26990		1	0	23.17	20.48	0.112
				1	25	23.28	20.59	0.115
				1	49	23.27	20.58	0.114
				25	0	22.48	19.79	0.095
				25	12	22.63	19.94	0.099
				25	25	22.63	19.94	0.099
				50	0	22.54	19.85	0.097

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	829	26840	10	1	0	22.41	19.72	0.094
				1	25	22.34	19.65	0.092
				1	49	22.35	19.66	0.092
				25	0	21.35	18.66	0.073
				25	12	21.34	18.65	0.073
				25	25	21.29	18.60	0.072
				50	0	21.38	18.69	0.074
	836.5	26915		1	0	22.43	19.74	0.094
				1	25	22.35	19.66	0.092
				1	49	22.31	19.62	0.092
				25	0	21.34	18.65	0.073
				25	12	21.32	18.63	0.073
				25	25	21.39	18.70	0.074
				50	0	21.40	18.71	0.074
	844	26990		1	0	22.40	19.71	0.094
				1	25	22.41	19.72	0.094
				1	49	22.29	19.60	0.091
				25	0	21.36	18.67	0.074
				25	12	21.43	18.74	0.075
				25	25	21.41	18.72	0.074
				50	0	21.29	18.60	0.072

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	831.5	26865	15	1	0	24.21	21.52	0.142
				1	37	24.35	21.66	0.147
				1	74	24.34	21.65	0.146
				36	0	23.32	20.63	0.116
				36	29	23.37	20.68	0.117
				36	30	23.37	20.68	0.117
				75	0	23.28	20.59	0.115
	836.5	26915		1	0	24.37	21.68	0.147
				1	37	24.52	21.83	0.152
				1	74	24.50	21.81	0.152
				36	0	23.35	20.66	0.116
				36	29	23.46	20.77	0.119
				36	30	23.46	20.77	0.119
				75	0	23.28	20.59	0.115
	841.5	26965		1	0	24.29	21.60	0.145
				1	37	24.24	21.55	0.143
				1	74	24.21	21.52	0.142
				36	0	23.40	20.71	0.118
				36	29	23.29	20.60	0.115
				36	30	23.42	20.73	0.118
				75	0	23.30	20.61	0.115
16QAM	831.5	26865		1	0	23.39	20.70	0.117
				1	37	23.46	20.77	0.119
				1	74	23.46	20.77	0.119
				36	0	22.44	19.75	0.094
				36	29	22.28	19.59	0.091
				36	30	22.28	19.59	0.091
				75	0	22.29	19.60	0.091
	836.5	26915		1	0	23.43	20.74	0.119
				1	37	23.65	20.96	0.125
				1	74	23.65	20.96	0.125
				36	0	22.41	19.72	0.094
				36	29	22.51	19.82	0.096
				36	30	22.51	19.82	0.096
				75	0	22.37	19.68	0.093
	841.5	26965		1	0	23.58	20.89	0.123
				1	37	23.54	20.85	0.122
				1	74	23.53	20.84	0.121
				36	0	22.42	19.73	0.094
				36	29	22.31	19.62	0.092
				36	30	22.31	19.62	0.092
				75	0	22.40	19.71	0.094

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	831.5	26865	15	1	0	22.29	19.60	0.091
				1	37	22.30	19.61	0.091
				1	74	22.25	19.56	0.090
				36	0	21.19	18.50	0.071
				36	29	21.26	18.57	0.072
				36	30	21.15	18.46	0.070
				75	0	21.12	18.43	0.070
	836.5	26915		1	0	22.37	19.68	0.093
				1	37	22.28	19.59	0.091
				1	74	22.31	19.62	0.092
				36	0	21.38	18.69	0.074
				36	29	21.34	18.65	0.073
				36	30	21.31	18.62	0.073
				75	0	21.28	18.59	0.072
	841.5	26965		1	0	22.41	19.72	0.094
				1	37	22.45	19.76	0.095
				1	74	22.27	19.58	0.091
				36	0	21.21	18.52	0.071
				36	29	21.35	18.66	0.073
				36	30	21.42	18.73	0.075
				75	0	21.32	18.63	0.073