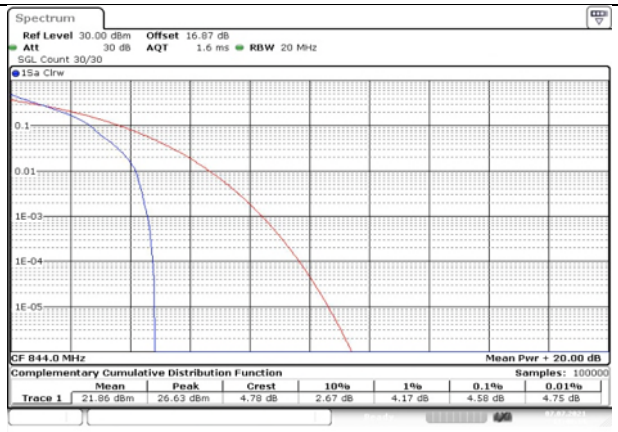

Fig.67

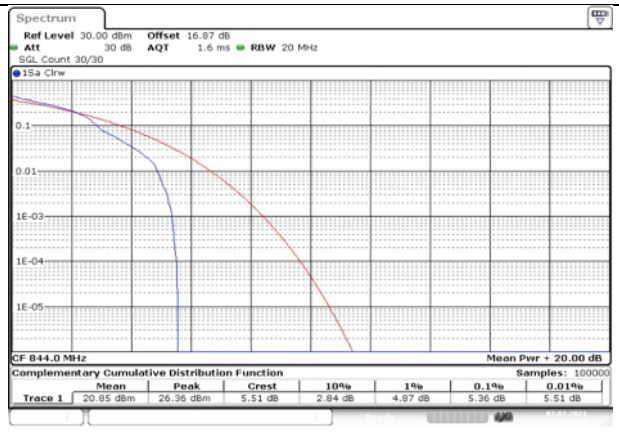

Fig.68

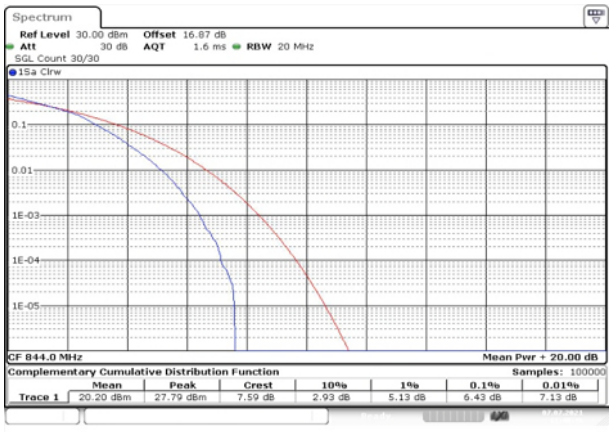

Fig.69

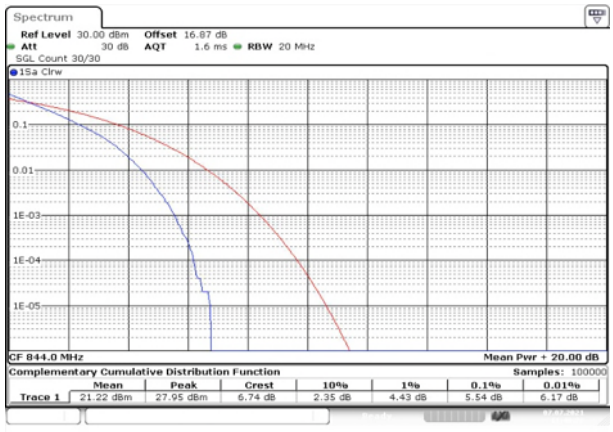

Fig.70

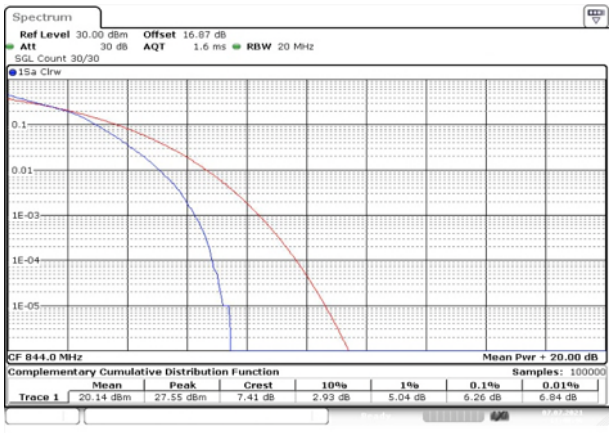

Fig.71

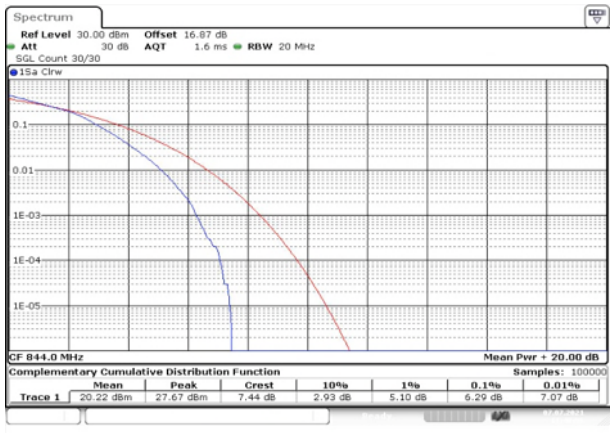

Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
5	829	20450	10	1	0	Fig.1
	836.5	20525		1	0	Fig.2
	844	20600		1	0	Fig.3

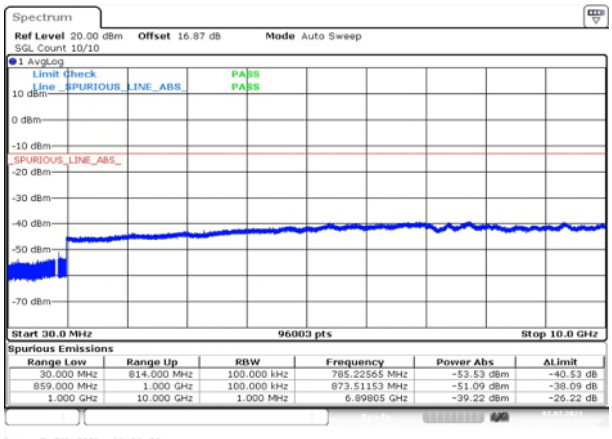

Fig.1

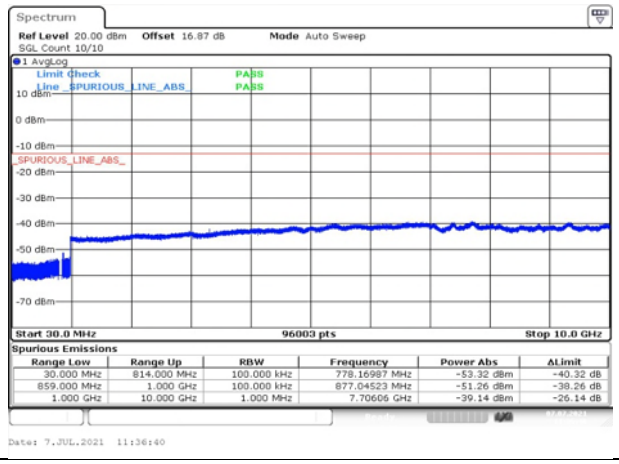

Fig.2

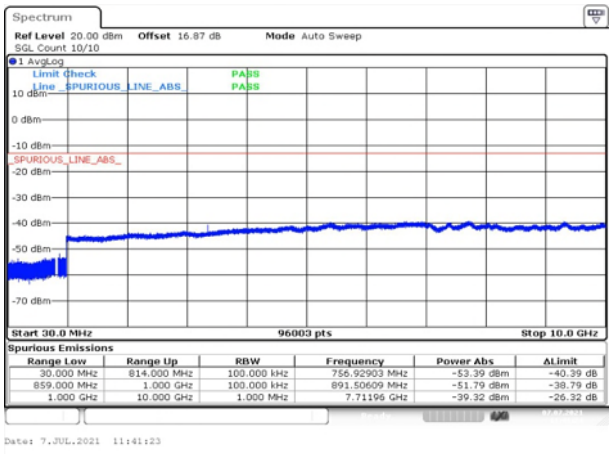

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
5	824.7	20407	1.4	1	0	Fig.1
				6	0	Fig.2
	848.3	20643		1	5	Fig.3
				6	0	Fig.4
	825.5	20415	3	1	0	Fig.5
				15	0	Fig.6
	847.5	20635		1	14	Fig.7
				15	0	Fig.8
	826.5	20425	5	1	0	Fig.9
				25	0	Fig.10
	846.5	20625		1	24	Fig.11
				25	0	Fig.12
	829	20450	10	1	0	Fig.13
				50	0	Fig.14
	844	20600		1	49	Fig.15
				50	0	Fig.16

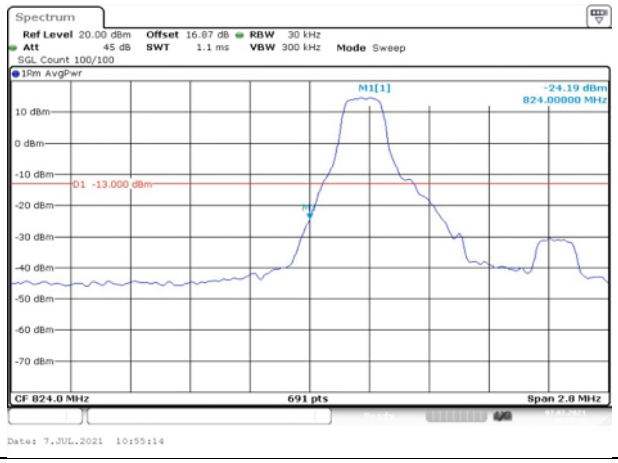

Fig.1

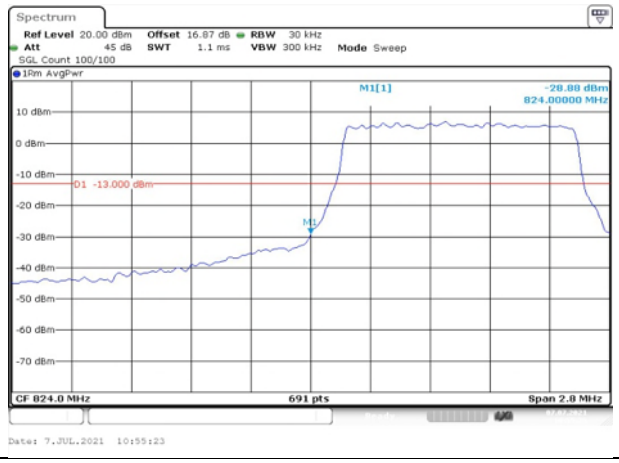

Fig.2

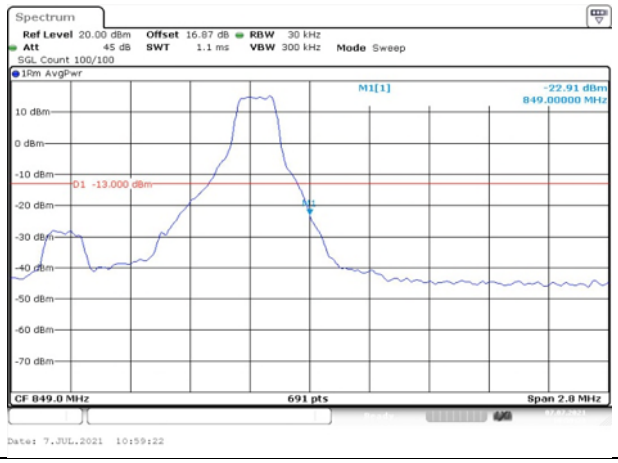

Fig.3

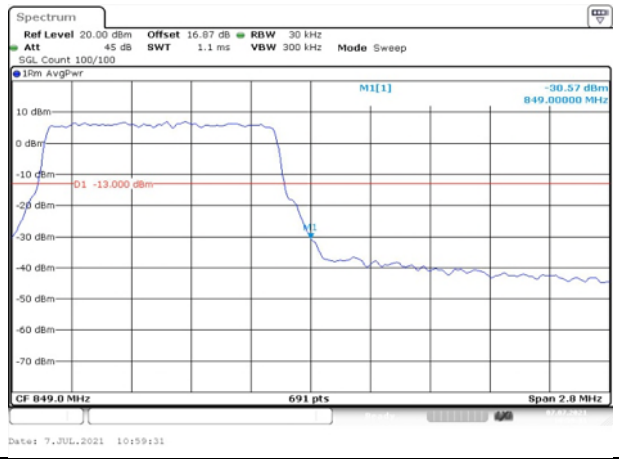

Fig.4

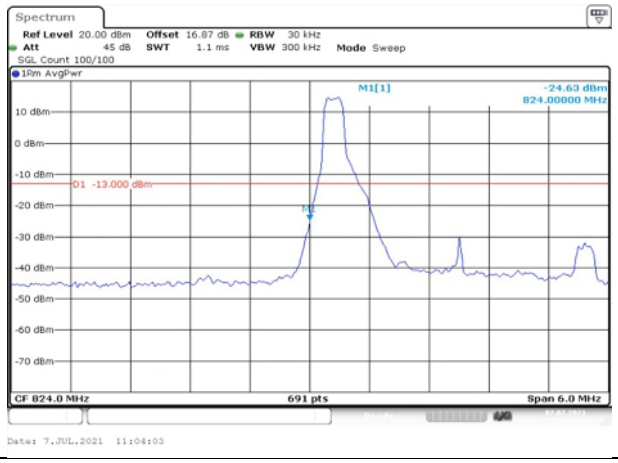

Fig.5

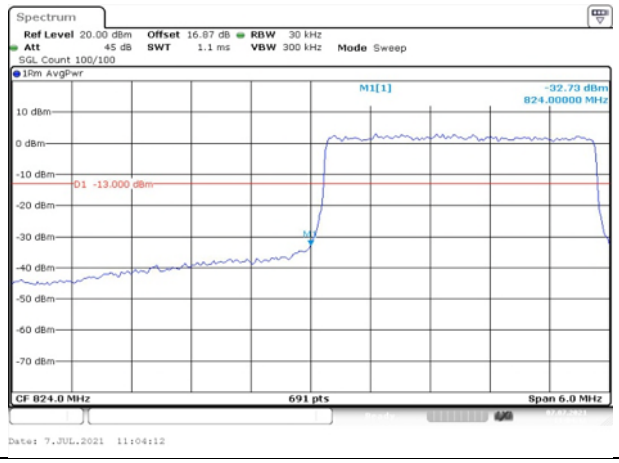

Fig.6

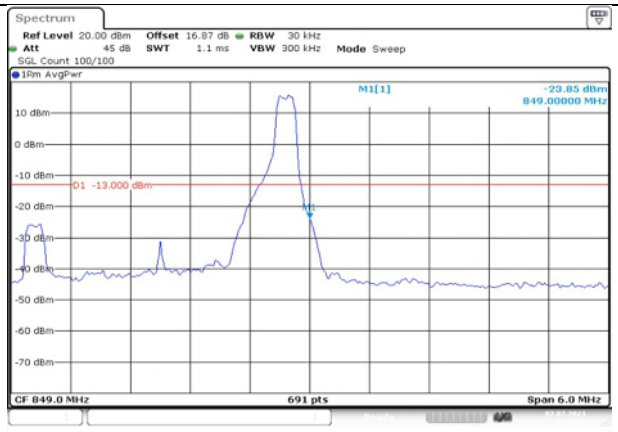

Fig.7

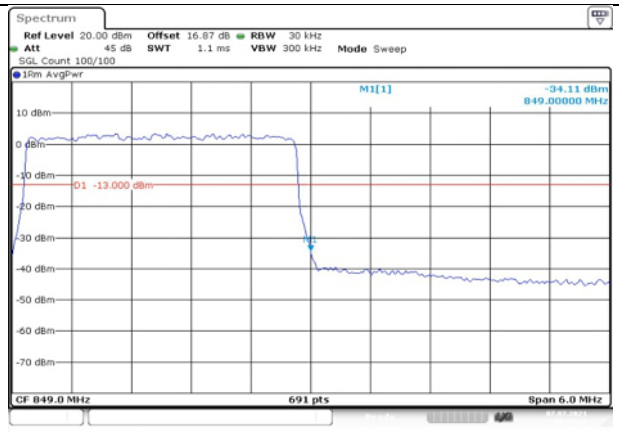

Fig.8

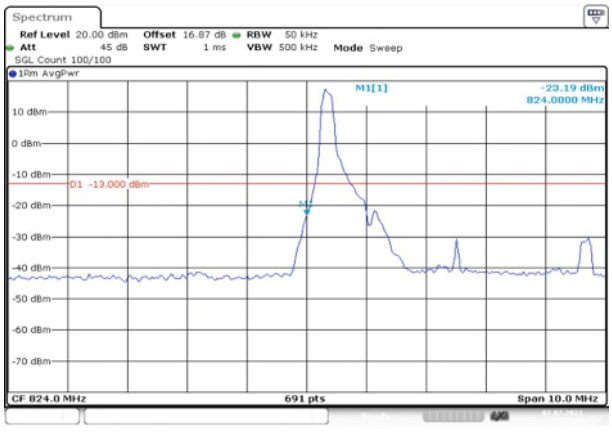

Fig.9

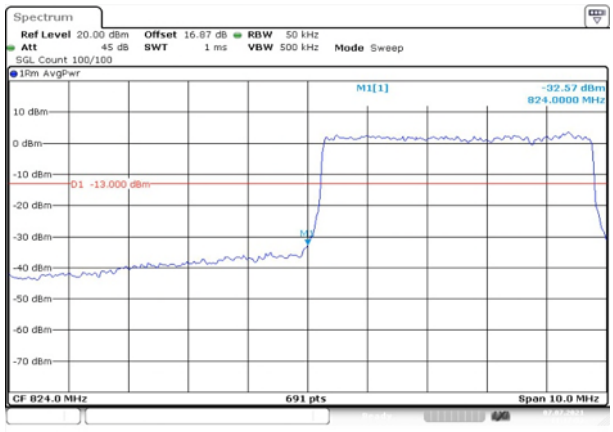

Fig.10

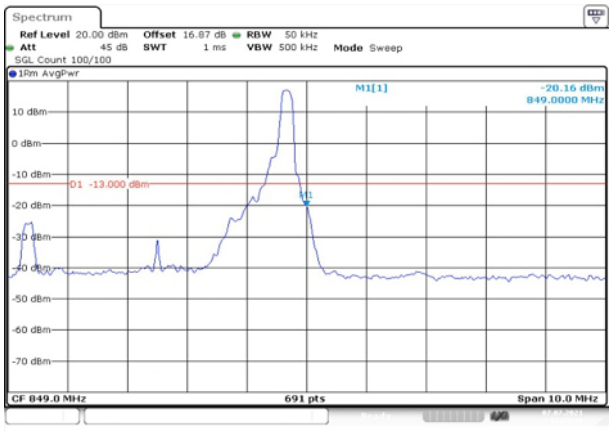

Fig.11

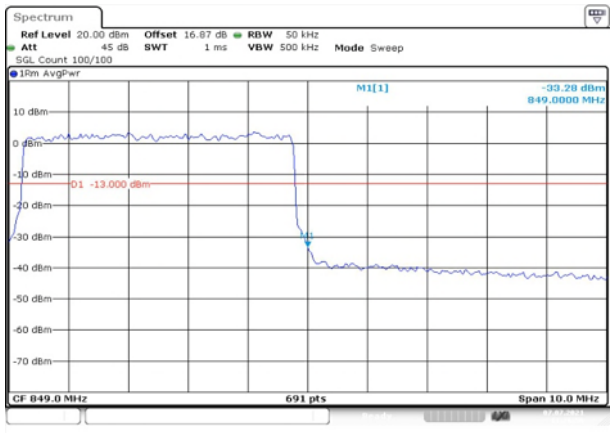

Fig.12

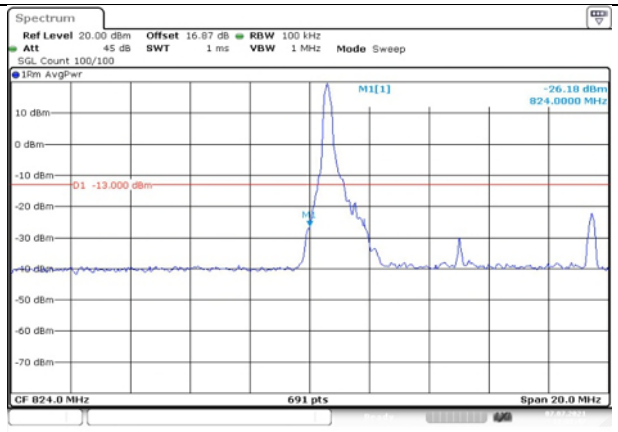

Fig.13

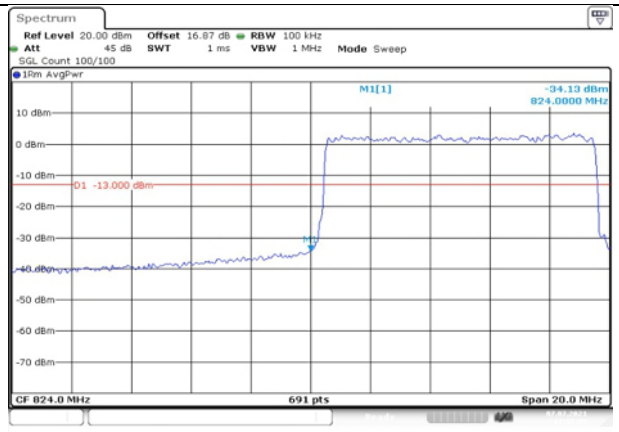

Fig.14

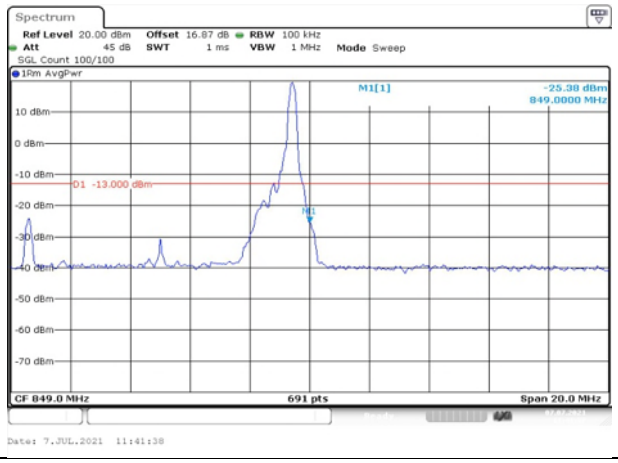

Fig.15

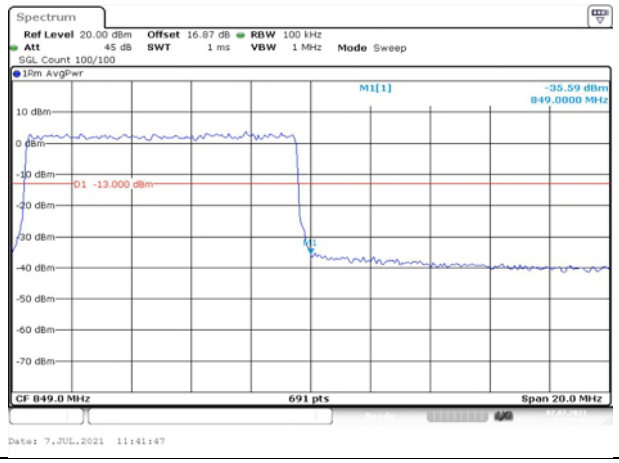

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band5 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.007	-0.005	-0.008	-0.006	---	---
+10	NV	-0.009	-0.007	-0.009	-0.011	---	---
+20	NV	-0.016	-0.011	0.005	-0.016	---	---
+30	NV	-0.013	-0.011	-0.007	-0.006	---	---
+40	NV	-0.010	-0.014	-0.012	-0.004	---	---
+55	NV	-0.014	-0.003	-0.002	-0.014	---	---
+20	LV	-0.013	-0.011	-0.006	-0.004	---	---
+20	HV	-0.013	0.000	-0.014	-0.011	---	---

Temperature(°C)	Voltage	Test Result (ppm) Band5 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.004	-0.007	-0.009	-0.004	---	---
+10	NV	-0.001	-0.004	-0.009	-0.006	---	---
+20	NV	-0.010	-0.011	-0.001	-0.013	---	---
+30	NV	-0.004	-0.009	-0.015	-0.002	---	---
+40	NV	-0.008	-0.006	0.001	-0.010	---	---
+55	NV	-0.007	-0.004	-0.001	-0.020	---	---
+20	LV	-0.009	-0.006	-0.003	-0.012	---	---
+20	HV	0.002	-0.010	0.003	-0.004	---	---

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	20407	1.4	1	0	23.27	17.82	0.061
				1	3	23.29	17.84	0.061
				1	5	23.30	17.85	0.061
				3	0	23.38	17.93	0.062
				3	1	23.47	18.02	0.063
				3	3	23.36	17.91	0.062
				6	0	22.40	16.95	0.050
	836.5	20525		1	0	22.96	17.51	0.056
				1	3	23.07	17.62	0.058
				1	5	23.00	17.55	0.057
				3	0	23.12	17.67	0.058
				3	1	23.12	17.67	0.058
				3	3	23.01	17.56	0.057
				6	0	21.99	16.54	0.045
	848.3	20643		1	0	23.19	17.74	0.059
				1	3	23.15	17.70	0.059
				1	5	23.21	17.76	0.060
				3	0	23.27	17.82	0.061
				3	1	23.22	17.77	0.060
				3	3	23.16	17.71	0.059
				6	0	22.19	16.74	0.047
16QAM	824.7	20407		1	0	22.40	16.95	0.050
				1	3	22.41	16.96	0.050
				1	5	22.48	17.03	0.050
				3	0	22.44	16.99	0.050
				3	1	22.50	17.05	0.051
				3	3	22.45	17.00	0.050
				6	0	21.29	15.84	0.038
	836.5	20525		1	0	22.08	16.63	0.046
				1	3	22.02	16.57	0.045
				1	5	22.06	16.61	0.046
				3	0	22.35	16.90	0.049
				3	1	22.33	16.88	0.049
				3	3	22.18	16.73	0.047
				6	0	20.99	15.54	0.036
	848.3	20643		1	0	22.29	16.84	0.048
				1	3	22.33	16.88	0.049
				1	5	22.28	16.83	0.048
				3	0	22.13	16.68	0.047
				3	1	22.19	16.74	0.047
				3	3	22.21	16.76	0.047
				6	0	21.24	15.79	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	824.7	20407	1.4	1	0	21.30	15.85	0.038
				1	3	21.24	15.79	0.038
				1	5	21.37	15.92	0.039
				3	0	21.26	15.81	0.038
				3	1	21.24	15.79	0.038
				3	3	21.28	15.83	0.038
				6	0	21.30	15.85	0.038
	836.5	20525		1	0	21.02	15.57	0.036
				1	3	21.12	15.67	0.037
				1	5	20.99	15.54	0.036
				3	0	21.00	15.55	0.036
				3	1	21.15	15.70	0.037
				3	3	21.03	15.58	0.036
				6	0	21.08	15.63	0.037
	848.3	20643		1	0	21.20	15.75	0.038
				1	3	21.25	15.80	0.038
				1	5	21.30	15.85	0.038
				3	0	21.31	15.86	0.039
				3	1	21.26	15.81	0.038
				3	3	21.20	15.75	0.038
				6	0	21.35	15.90	0.039

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	825.5	20415	3	1	0	22.86	17.41	0.055
				1	8	22.83	17.38	0.055
				1	14	22.84	17.39	0.055
				8	0	21.95	16.50	0.045
				8	4	21.89	16.44	0.044
				8	7	21.85	16.40	0.044
				15	0	21.91	16.46	0.044
	836.5	20525		1	0	23.06	17.61	0.058
				1	8	23.11	17.66	0.058
				1	14	23.11	17.66	0.058
				8	0	22.05	16.60	0.046
				8	4	22.02	16.57	0.045
				8	7	22.06	16.61	0.046
				15	0	22.09	16.64	0.046
	847.5	20635		1	0	23.23	17.78	0.060
				1	8	23.19	17.74	0.059
				1	14	23.18	17.73	0.059
				8	0	22.25	16.80	0.048
				8	4	22.25	16.80	0.048
				8	7	22.20	16.75	0.047
				15	0	22.20	16.75	0.047
16QAM	825.5	20415		1	0	22.43	16.98	0.050
				1	8	22.52	17.07	0.051
				1	14	22.56	17.11	0.051
				8	0	21.03	15.58	0.036
				8	4	21.12	15.67	0.037
				8	7	21.11	15.66	0.037
				15	0	20.95	15.50	0.035
	836.5	20525		1	0	22.19	16.74	0.047
				1	8	22.17	16.72	0.047
				1	14	22.25	16.80	0.048
				8	0	21.05	15.60	0.036
				8	4	21.10	15.65	0.037
				8	7	21.11	15.66	0.037
				15	0	21.01	15.56	0.036
	847.5	20635		1	0	22.35	16.90	0.049
				1	8	22.22	16.77	0.048
				1	14	22.32	16.87	0.049
				8	0	21.24	15.79	0.038
				8	4	21.22	15.77	0.038
				8	7	21.22	15.77	0.038
				15	0	21.31	15.86	0.039

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	825.5	20415	3	1	0	20.94	15.49	0.035
				1	8	20.97	15.52	0.036
				1	14	20.95	15.50	0.035
				8	0	20.96	15.51	0.036
				8	4	20.95	15.50	0.035
				8	7	20.94	15.49	0.035
				15	0	20.96	15.51	0.036
	836.5	20525		1	0	20.99	15.54	0.036
				1	8	21.02	15.57	0.036
				1	14	21.00	15.55	0.036
				8	0	21.01	15.56	0.036
				8	4	21.00	15.55	0.036
				8	7	20.98	15.53	0.036
				15	0	21.01	15.56	0.036
	847.5	20635		1	0	21.31	15.86	0.039
				1	8	21.25	15.80	0.038
				1	14	21.30	15.85	0.038
				8	0	21.27	15.82	0.038
				8	4	21.26	15.81	0.038
				8	7	21.27	15.82	0.038
				15	0	21.27	15.82	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	826.5	20425	5	1	0	22.80	17.35	0.054
				1	12	22.85	17.40	0.055
				1	24	22.80	17.35	0.054
				12	0	21.87	16.42	0.044
				12	7	21.96	16.51	0.045
				12	13	21.91	16.46	0.044
				25	0	21.99	16.54	0.045
	836.5	20525		1	0	22.96	17.51	0.056
				1	12	22.96	17.51	0.056
				1	24	22.94	17.49	0.056
				12	0	22.07	16.62	0.046
				12	7	22.02	16.57	0.045
				12	13	22.01	16.56	0.045
				25	0	22.04	16.59	0.046
	846.5	20625		1	0	23.10	17.65	0.058
				1	12	23.10	17.65	0.058
				1	24	23.13	17.68	0.059
				12	0	22.18	16.73	0.047
				12	7	22.20	16.75	0.047
				12	13	22.21	16.76	0.047
				25	0	22.21	16.76	0.047
16QAM	826.5	20425		1	0	21.73	16.28	0.042
				1	12	21.77	16.32	0.043
				1	24	21.76	16.31	0.043
				12	0	20.91	15.46	0.035
				12	7	20.86	15.41	0.035
				12	13	20.93	15.48	0.035
				25	0	20.92	15.47	0.035
	836.5	20525		1	0	22.24	16.79	0.048
				1	12	22.27	16.82	0.048
				1	24	22.27	16.82	0.048
				12	0	21.09	15.64	0.037
				12	7	21.02	15.57	0.036
				12	13	21.06	15.61	0.036
				25	0	21.08	15.63	0.037
	846.5	20625		1	0	22.15	16.70	0.047
				1	12	22.13	16.68	0.047
				1	24	22.10	16.65	0.046
				12	0	21.03	15.58	0.036
				12	7	21.13	15.68	0.037
				12	13	21.12	15.67	0.037
				25	0	21.32	15.87	0.039

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	826.5	20425	5	1	0	20.97	15.52	0.036
				1	12	20.96	15.51	0.036
				1	24	20.95	15.50	0.035
				12	0	20.95	15.50	0.035
				12	7	21.02	15.57	0.036
				12	13	21.03	15.58	0.036
				25	0	20.93	15.48	0.035
	836.5	20525		1	0	21.02	15.57	0.036
				1	12	21.02	15.57	0.036
				1	24	21.03	15.58	0.036
				12	0	21.09	15.64	0.037
				12	7	21.08	15.63	0.037
				12	13	21.10	15.65	0.037
				25	0	21.12	15.67	0.037
	846.5	20625		1	0	21.20	15.75	0.038
				1	12	21.21	15.76	0.038
				1	24	21.21	15.76	0.038
				12	0	21.27	15.82	0.038
				12	7	21.24	15.79	0.038
				12	13	21.24	15.79	0.038
				25	0	21.22	15.77	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	829	20450	10	1	0	22.80	17.35	0.054
				1	25	22.97	17.52	0.056
				1	49	22.96	17.51	0.056
				25	0	21.89	16.44	0.044
				25	12	21.91	16.46	0.044
				25	25	21.89	16.44	0.044
				50	0	21.95	16.50	0.045
	836.5	20525		1	0	22.99	17.54	0.057
				1	25	23.11	17.66	0.058
				1	49	23.08	17.63	0.058
				25	0	22.06	16.61	0.046
				25	12	22.05	16.60	0.046
				25	25	22.05	16.60	0.046
				50	0	22.11	16.66	0.046
	844	20600		1	0	23.03	17.58	0.057
				1	25	23.09	17.64	0.058
				1	49	23.12	17.67	0.058
				25	0	22.04	16.59	0.046
				25	12	22.19	16.74	0.047
				25	25	22.21	16.76	0.047
				50	0	22.18	16.73	0.047
16QAM	829	20450		1	0	22.43	16.98	0.050
				1	25	22.54	17.09	0.051
				1	49	22.54	17.09	0.051
				25	0	21.01	15.56	0.036
				25	12	21.07	15.62	0.036
				25	25	21.04	15.59	0.036
				50	0	21.00	15.55	0.036
	836.5	20525		1	0	22.11	16.66	0.046
				1	25	22.22	16.77	0.048
				1	49	22.21	16.76	0.047
				25	0	21.13	15.68	0.037
				25	12	21.02	15.57	0.036
				25	25	21.11	15.66	0.037
				50	0	21.07	15.62	0.036
	844	20600		1	0	22.22	16.77	0.048
				1	25	22.22	16.77	0.048
				1	49	22.28	16.83	0.048
				25	0	21.25	15.80	0.038
				25	12	21.29	15.84	0.038
				25	25	21.30	15.85	0.038
				50	0	21.20	15.75	0.038

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	829	20450	10	1	0	20.95	15.50	0.035
				1	25	20.91	15.46	0.035
				1	49	20.98	15.53	0.036
				25	0	20.99	15.54	0.036
				25	12	21.00	15.55	0.036
				25	25	20.92	15.47	0.035
				50	0	20.99	15.54	0.036
	836.5	20525		1	0	21.07	15.62	0.036
				1	25	21.07	15.62	0.036
				1	49	21.15	15.70	0.037
				25	0	21.12	15.67	0.037
				25	12	21.14	15.69	0.037
				25	25	21.13	15.68	0.037
				50	0	21.13	15.68	0.037
	844	20600		1	0	21.24	15.79	0.038
				1	25	21.15	15.70	0.037
				1	49	21.23	15.78	0.038
				25	0	21.22	15.77	0.038
				25	12	21.21	15.76	0.038
				25	25	21.21	15.76	0.038
				50	0	21.23	15.78	0.038