Fig.61

Fig.62

Fig.63

Fig.64

Fig.65
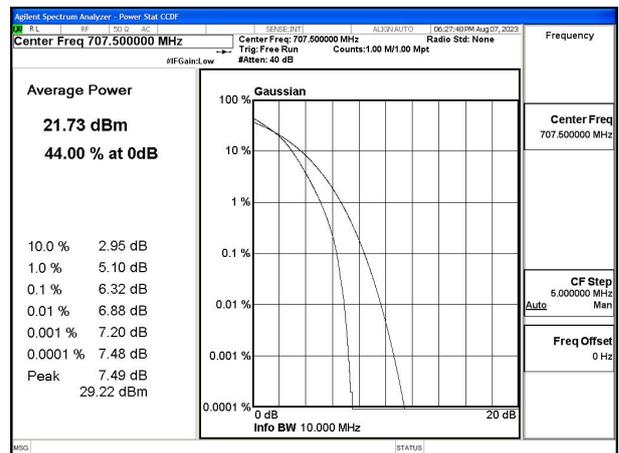
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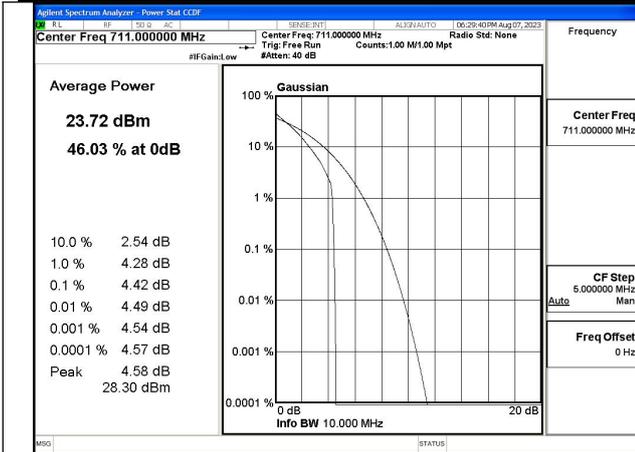
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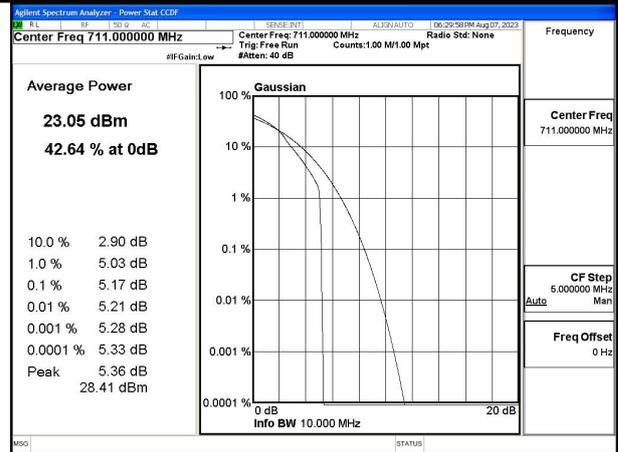
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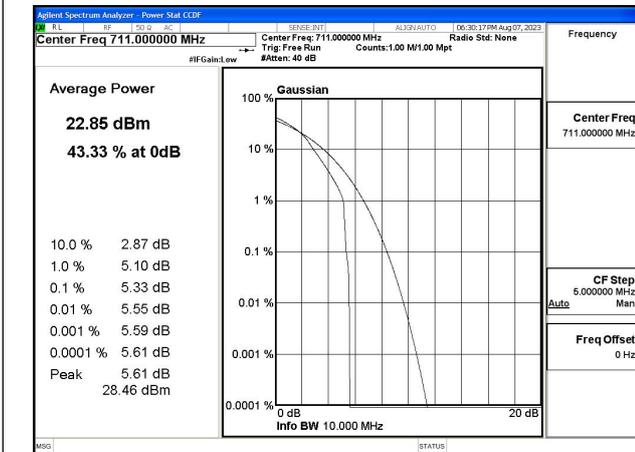
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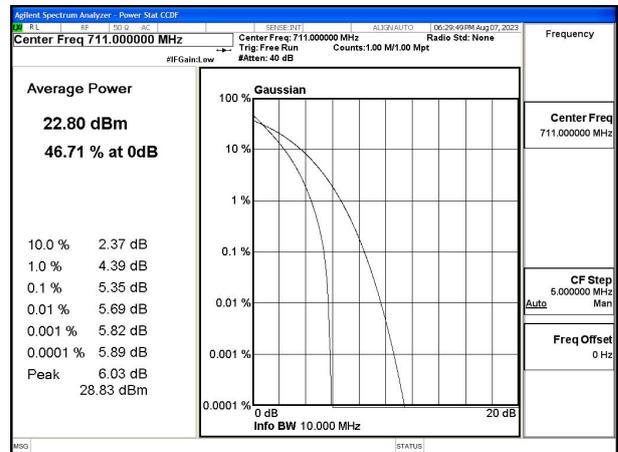
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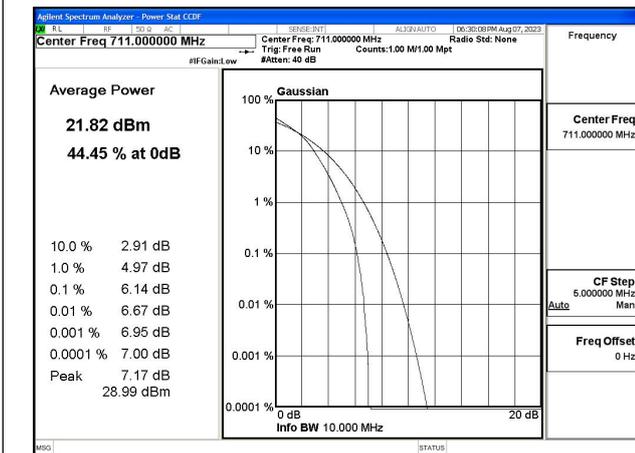
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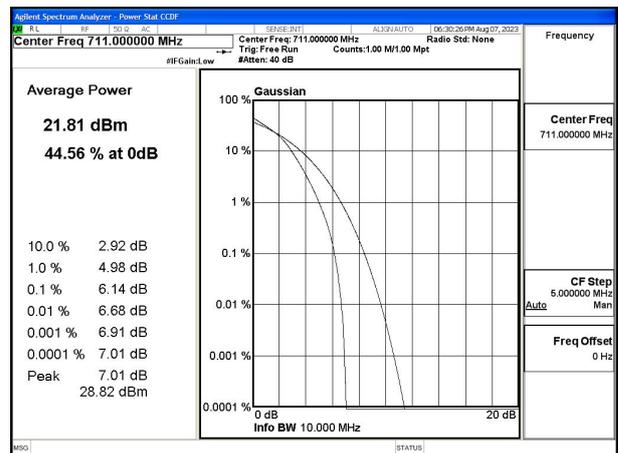
Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
12	704	23060	10	1	0	Fig.1
12	707.5	23095	10	1	0	Fig.2
12	711	23130	10	1	0	Fig.3
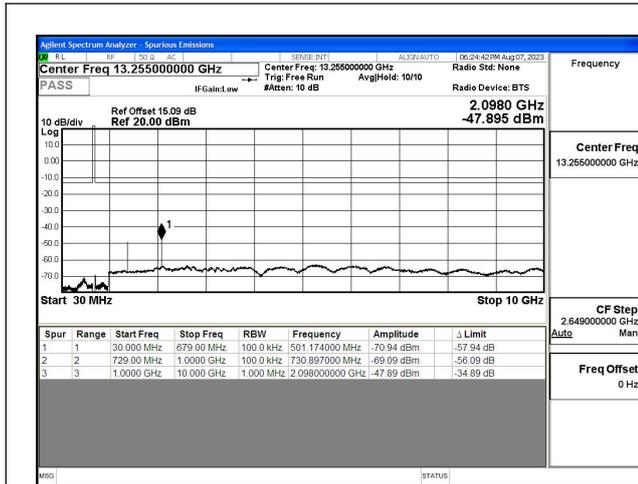
Fig.1
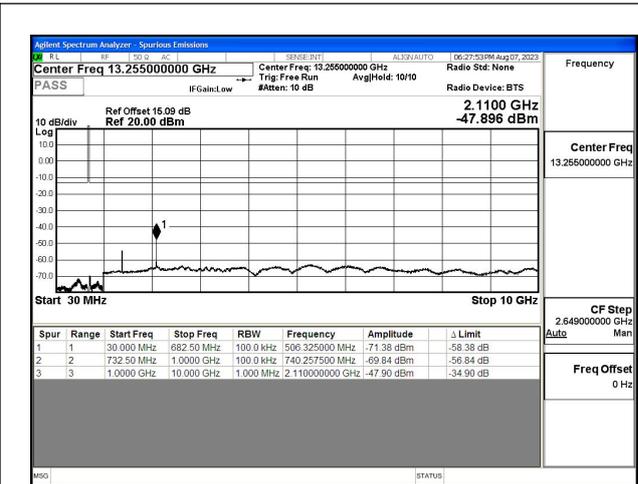
Fig.2
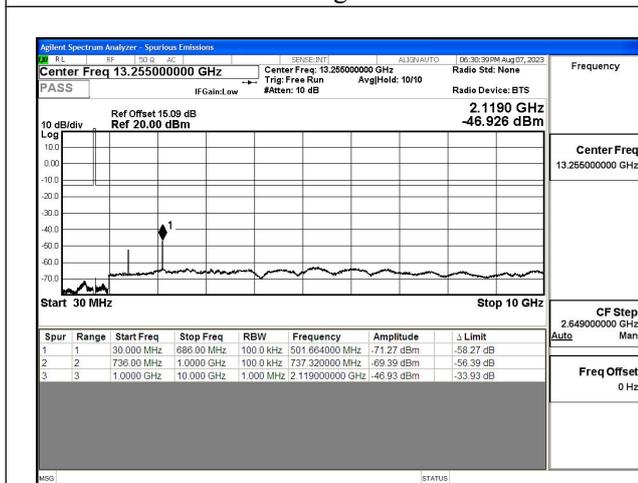
Fig.3

6   Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
12	QPSK	699.7	23017	1.4	1	0	Fig.1
12	QPSK	699.7	23017	1.4	6	0	Fig.2
12	QPSK	715.3	23173	1.4	1	5	Fig.3
12	QPSK	715.3	23173	1.4	6	0	Fig.4
12	QPSK	700.5	23025	3	1	0	Fig.5
12	QPSK	700.5	23025	3	15	0	Fig.6
12	QPSK	714.5	23165	3	1	14	Fig.7
12	QPSK	714.5	23165	3	15	0	Fig.8
12	QPSK	701.5	23035	5	1	0	Fig.9
12	QPSK	701.5	23035	5	25	0	Fig.10
12	QPSK	713.5	23155	5	1	24	Fig.11
12	QPSK	713.5	23155	5	25	0	Fig.12
12	QPSK	704	23060	10	1	0	Fig.13
12	QPSK	704	23060	10	50	0	Fig.14
12	QPSK	711	23130	10	1	49	Fig.15
12	QPSK	711	23130	10	50	0	Fig.16

Test Mode: QPSK
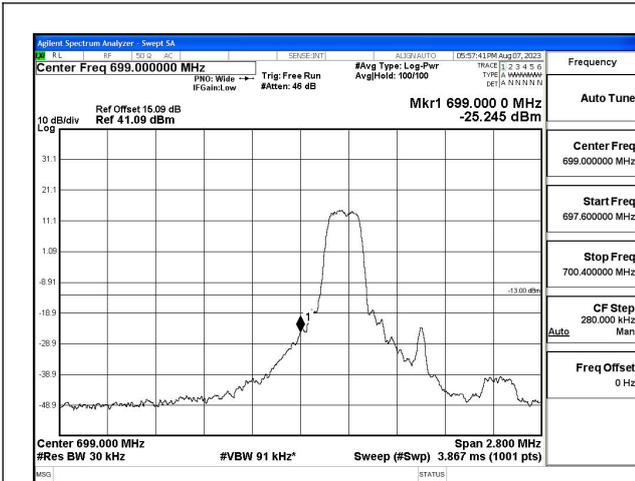
Fig.1
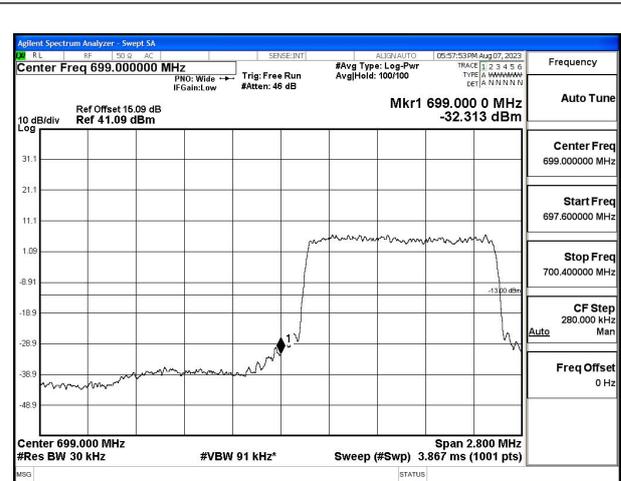
Fig.2
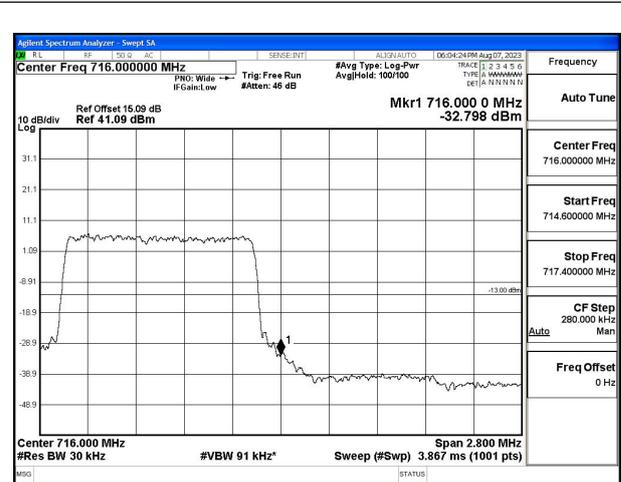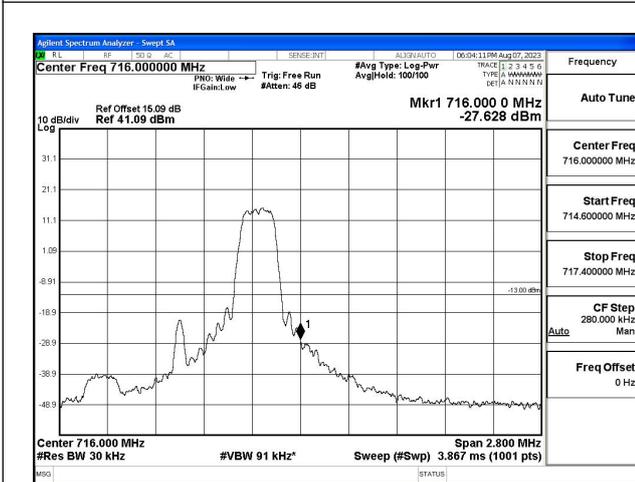
Fig.3
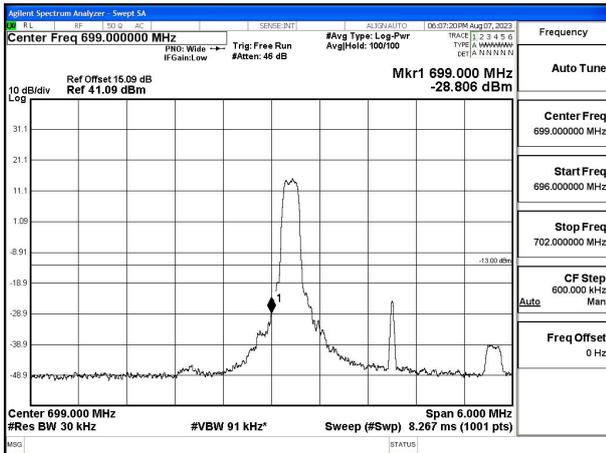
Fig.4

Fig.3	Fig.4
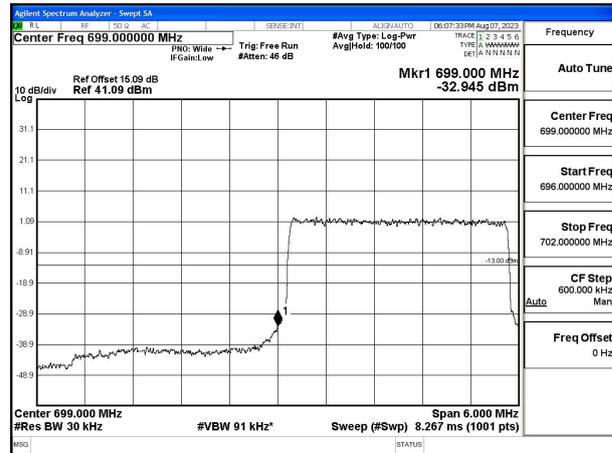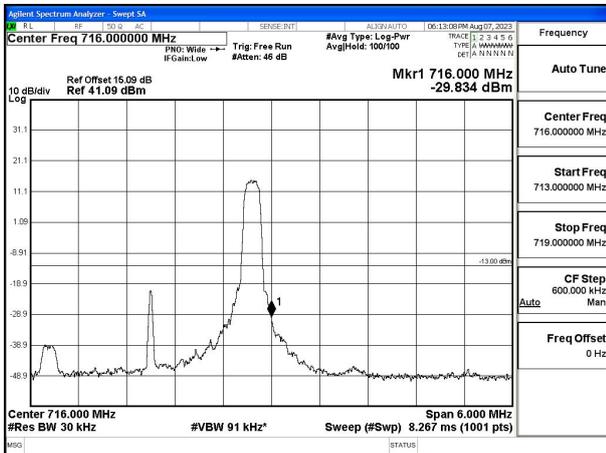
Fig.5	Fig.6
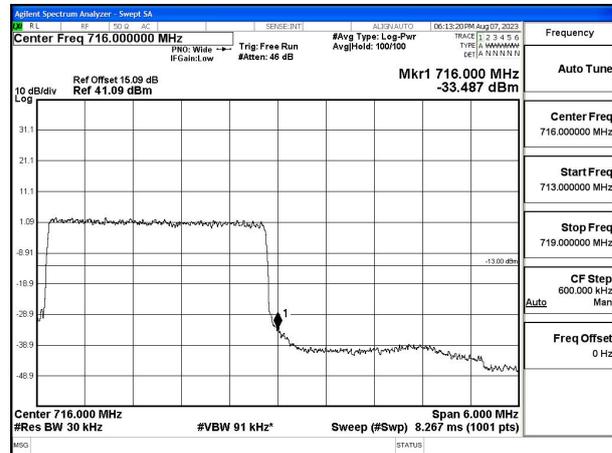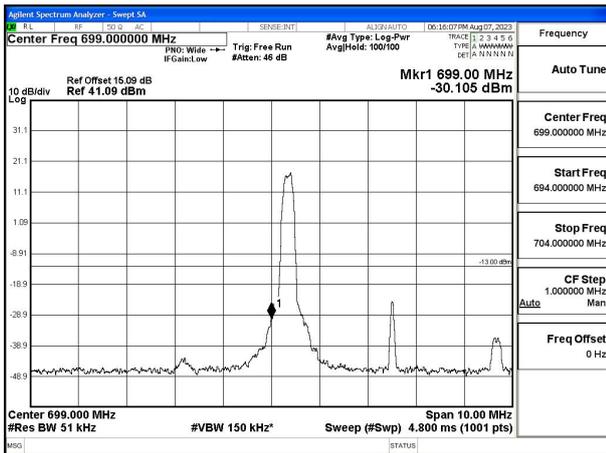
Fig.7	Fig.8
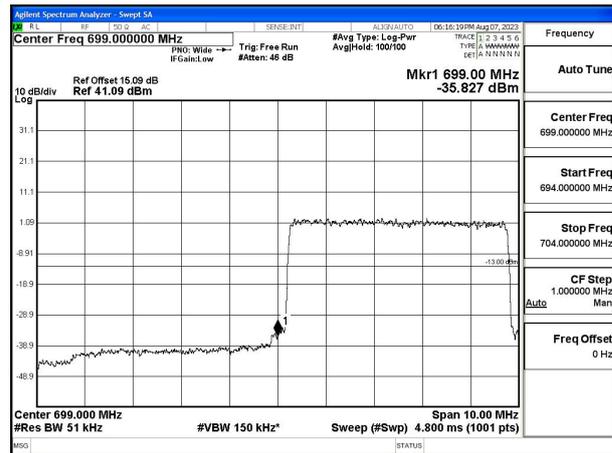
Fig.9	Fig.10
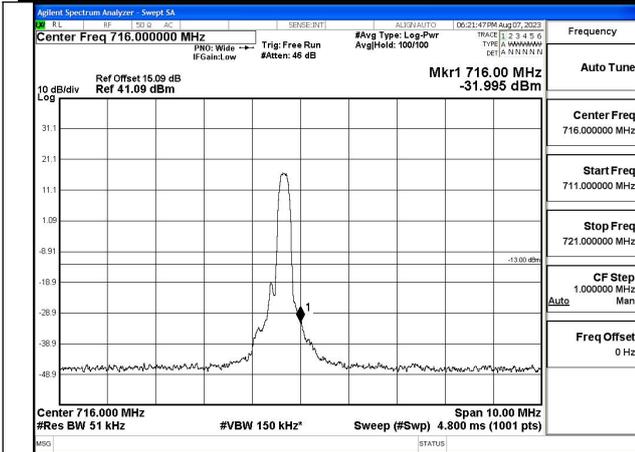
Fig.11
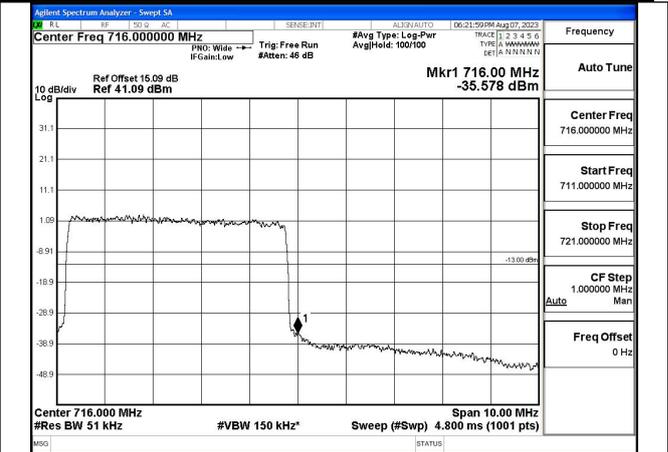
Fig.12
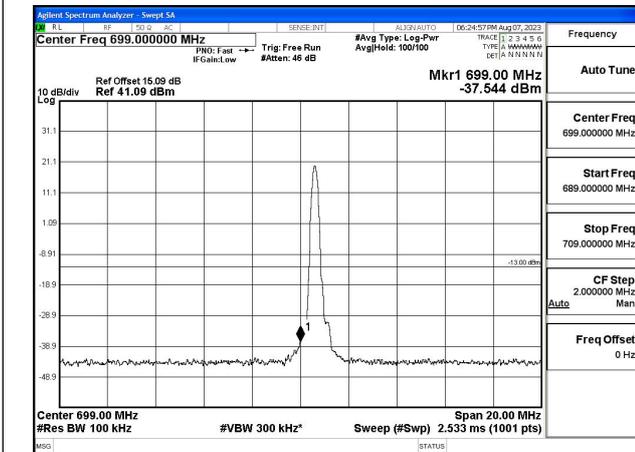
Fig.13
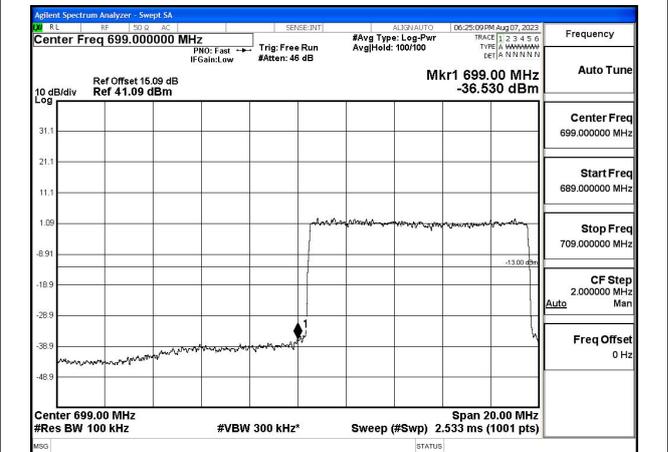
Fig.14
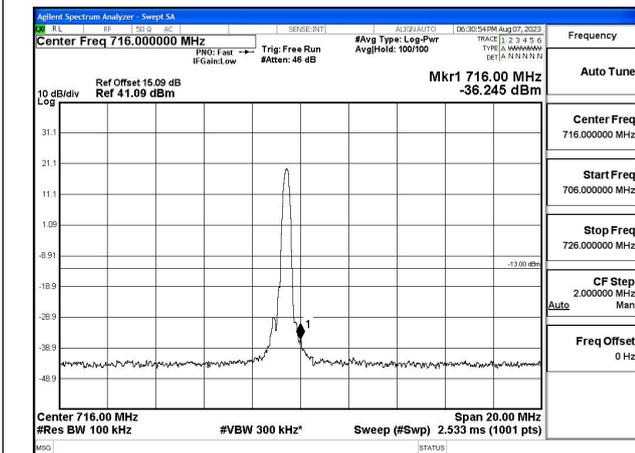
Fig.15
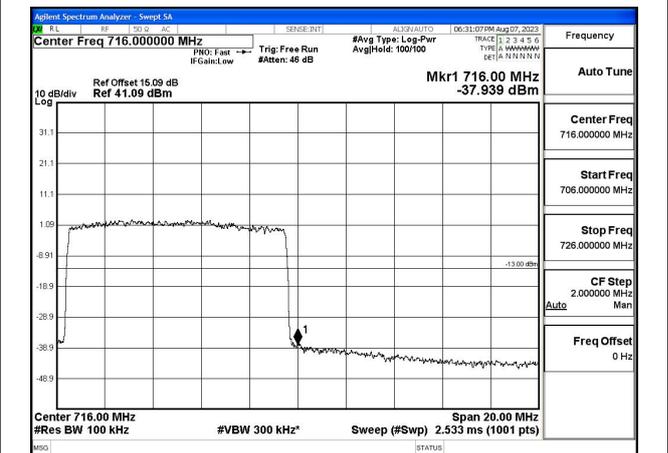
Fig.16

7   Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 12 Low Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	0.022	0.003	0.003	-0.005
0	NV	0.007	-0.004	0.004	-0.006
+10	NV	0.013	-0.003	0.002	-0.007
+20	NV	0.004	0.006	0.004	0.004
+30	NV	-0.011	0.008	0.000	0.005
+40	NV	0.017	0.004	0.004	-0.006
+50	NV	0.022	-0.002	0.003	-0.009
+55	NV	0.007	0.005	0.003	-0.008
+20	LV	-0.013	-0.006	0.003	0.005
+20	HV	-0.024	-0.008	0.002	0.005

Temperature(°C)	Voltage	Test Result (ppm) Band 12 High Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	-0.025	0.006	0.005	0.005
0	NV	-0.023	0.002	0.006	-0.005
+10	NV	0.009	-0.006	0.005	-0.005
+20	NV	-0.027	0.005	-0.006	-0.007
+30	NV	-0.023	-0.006	0.004	-0.006
+40	NV	-0.016	0.002	-0.007	-0.008
+50	NV	-0.023	-0.005	-0.005	-0.008
+55	NV	0.024	0.003	0.005	0.005
+20	LV	0.016	0.003	0.005	0.007
+20	HV	0.014	-0.004	0.005	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	699.7	23017	1.4	1	0	23.26	10.21	0.010
QPSK	699.7	23017	1.4	1	3	23.34	10.29	0.011
QPSK	699.7	23017	1.4	1	5	23.26	10.21	0.010
QPSK	699.7	23017	1.4	3	0	23.43	10.38	0.011
QPSK	699.7	23017	1.4	3	1	23.44	10.39	0.011
QPSK	699.7	23017	1.4	3	3	23.43	10.38	0.011
QPSK	699.7	23017	1.4	6	0	22.41	9.36	0.009
QPSK	707.5	23095	1.4	1	0	23.41	10.36	0.011
QPSK	707.5	23095	1.4	1	3	23.49	10.44	0.011
QPSK	707.5	23095	1.4	1	5	23.43	10.38	0.011
QPSK	707.5	23095	1.4	3	0	23.46	10.41	0.011
QPSK	707.5	23095	1.4	3	1	23.52	10.47	0.011
QPSK	707.5	23095	1.4	3	3	23.50	10.45	0.011
QPSK	707.5	23095	1.4	6	0	22.39	9.34	0.009
QPSK	715.3	23173	1.4	1	0	23.39	10.34	0.011
QPSK	715.3	23173	1.4	1	3	23.34	10.29	0.011
QPSK	715.3	23173	1.4	1	5	23.33	10.28	0.011
QPSK	715.3	23173	1.4	3	0	23.42	10.37	0.011
QPSK	715.3	23173	1.4	3	1	23.31	10.26	0.011
QPSK	715.3	23173	1.4	3	3	23.49	10.44	0.011
QPSK	715.3	23173	1.4	6	0	22.53	9.48	0.009

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	699.7	23017	1.4	1	0	23.13	10.08	0.010
16QAM	699.7	23017	1.4	1	3	22.86	9.81	0.010
16QAM	699.7	23017	1.4	1	5	22.68	9.63	0.009
16QAM	699.7	23017	1.4	3	0	22.64	9.59	0.009
16QAM	699.7	23017	1.4	3	1	22.37	9.32	0.009
16QAM	699.7	23017	1.4	3	3	22.52	9.47	0.009
16QAM	699.7	23017	1.4	6	0	21.57	8.52	0.007
16QAM	707.5	23095	1.4	1	0	22.82	9.77	0.009
16QAM	707.5	23095	1.4	1	3	22.99	9.94	0.010
16QAM	707.5	23095	1.4	1	5	22.88	9.83	0.010
16QAM	707.5	23095	1.4	3	0	22.65	9.60	0.009
16QAM	707.5	23095	1.4	3	1	22.64	9.59	0.009
16QAM	707.5	23095	1.4	3	3	22.42	9.37	0.009
16QAM	707.5	23095	1.4	6	0	21.36	8.31	0.007
16QAM	715.3	23173	1.4	1	0	22.74	9.69	0.009
16QAM	715.3	23173	1.4	1	3	22.30	9.25	0.008
16QAM	715.3	23173	1.4	1	5	23.04	9.99	0.010
16QAM	715.3	23173	1.4	3	0	22.51	9.46	0.009
16QAM	715.3	23173	1.4	3	1	22.53	9.48	0.009
16QAM	715.3	23173	1.4	3	3	22.56	9.51	0.009
16QAM	715.3	23173	1.4	6	0	21.65	8.60	0.007
64QAM	699.7	23017	1.4	1	0	22.51	9.46	0.009
64QAM	699.7	23017	1.4	1	3	22.42	9.37	0.009
64QAM	699.7	23017	1.4	1	5	22.34	9.29	0.008
64QAM	699.7	23017	1.4	3	0	22.36	9.31	0.009
64QAM	699.7	23017	1.4	3	1	22.49	9.44	0.009
64QAM	699.7	23017	1.4	3	3	22.35	9.30	0.009
64QAM	699.7	23017	1.4	6	0	21.39	8.34	0.007
64QAM	707.5	23095	1.4	1	0	22.75	9.70	0.009
64QAM	707.5	23095	1.4	1	3	22.69	9.64	0.009
64QAM	707.5	23095	1.4	1	5	22.17	9.12	0.008
64QAM	707.5	23095	1.4	3	0	22.45	9.40	0.009
64QAM	707.5	23095	1.4	3	1	22.57	9.52	0.009
64QAM	707.5	23095	1.4	3	3	22.39	9.34	0.009
64QAM	707.5	23095	1.4	6	0	21.37	8.32	0.007
64QAM	715.3	23173	1.4	1	0	22.66	9.61	0.009
64QAM	715.3	23173	1.4	1	3	22.58	9.53	0.009
64QAM	715.3	23173	1.4	1	5	22.69	9.64	0.009
64QAM	715.3	23173	1.4	3	0	22.68	9.63	0.009
64QAM	715.3	23173	1.4	3	1	22.51	9.46	0.009
64QAM	715.3	23173	1.4	3	3	22.59	9.54	0.009
64QAM	715.3	23173	1.4	6	0	21.45	8.40	0.007

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	23.25	10.20	0.010
QPSK	700.5	23025	3	1	8	23.45	10.40	0.011
QPSK	700.5	23025	3	1	14	23.32	10.27	0.011
QPSK	700.5	23025	3	8	0	22.44	9.39	0.009
QPSK	700.5	23025	3	8	4	22.42	9.37	0.009
QPSK	700.5	23025	3	8	7	22.47	9.42	0.009
QPSK	700.5	23025	3	15	0	22.49	9.44	0.009
QPSK	707.5	23095	3	1	0	23.29	10.24	0.011
QPSK	707.5	23095	3	1	8	23.46	10.41	0.011
QPSK	707.5	23095	3	1	14	23.34	10.29	0.011
QPSK	707.5	23095	3	8	0	22.37	9.32	0.009
QPSK	707.5	23095	3	8	4	22.44	9.39	0.009
QPSK	707.5	23095	3	8	7	22.45	9.40	0.009
QPSK	707.5	23095	3	15	0	22.51	9.46	0.009
QPSK	714.5	23165	3	1	0	23.62	10.57	0.011
QPSK	714.5	23165	3	1	8	23.29	10.24	0.011
QPSK	714.5	23165	3	1	14	23.22	10.17	0.010
QPSK	714.5	23165	3	8	0	22.38	9.33	0.009
QPSK	714.5	23165	3	8	4	22.56	9.51	0.009
QPSK	714.5	23165	3	8	7	22.43	9.38	0.009
QPSK	714.5	23165	3	15	0	22.34	9.29	0.008

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	700.5	23025	3	1	0	22.63	9.58	0.009
16QAM	700.5	23025	3	1	8	22.83	9.78	0.010
16QAM	700.5	23025	3	1	14	22.76	9.71	0.009
16QAM	700.5	23025	3	8	0	21.66	8.61	0.007
16QAM	700.5	23025	3	8	4	21.56	8.51	0.007
16QAM	700.5	23025	3	8	7	21.41	8.36	0.007
16QAM	700.5	23025	3	15	0	21.44	8.39	0.007
16QAM	707.5	23095	3	1	0	22.10	9.05	0.008
16QAM	707.5	23095	3	1	8	23.83	10.78	0.012
16QAM	707.5	23095	3	1	14	22.75	9.70	0.009
16QAM	707.5	23095	3	8	0	21.41	8.36	0.007
16QAM	707.5	23095	3	8	4	21.32	8.27	0.007
16QAM	707.5	23095	3	8	7	21.55	8.50	0.007
16QAM	707.5	23095	3	15	0	21.63	8.58	0.007
16QAM	714.5	23165	3	1	0	22.48	9.43	0.009
16QAM	714.5	23165	3	1	8	22.72	9.67	0.009
16QAM	714.5	23165	3	1	14	22.61	9.56	0.009
16QAM	714.5	23165	3	8	0	21.47	8.42	0.007
16QAM	714.5	23165	3	8	4	21.44	8.39	0.007
16QAM	714.5	23165	3	8	7	21.37	8.32	0.007
16QAM	714.5	23165	3	15	0	21.41	8.36	0.007
64QAM	700.5	23025	3	1	0	22.04	8.99	0.008
64QAM	700.5	23025	3	1	8	22.59	9.54	0.009
64QAM	700.5	23025	3	1	14	22.50	9.45	0.009
64QAM	700.5	23025	3	8	0	21.39	8.34	0.007
64QAM	700.5	23025	3	8	4	21.59	8.54	0.007
64QAM	700.5	23025	3	8	7	21.45	8.40	0.007
64QAM	700.5	23025	3	15	0	21.36	8.31	0.007
64QAM	707.5	23095	3	1	0	22.01	8.96	0.008
64QAM	707.5	23095	3	1	8	22.73	9.68	0.009
64QAM	707.5	23095	3	1	14	22.51	9.46	0.009
64QAM	707.5	23095	3	8	0	21.47	8.42	0.007
64QAM	707.5	23095	3	8	4	21.44	8.39	0.007
64QAM	707.5	23095	3	8	7	21.39	8.34	0.007
64QAM	707.5	23095	3	15	0	21.48	8.43	0.007
64QAM	714.5	23165	3	1	0	22.25	9.20	0.008
64QAM	714.5	23165	3	1	8	22.31	9.26	0.008
64QAM	714.5	23165	3	1	14	22.22	9.17	0.008
64QAM	714.5	23165	3	8	0	21.43	8.38	0.007
64QAM	714.5	23165	3	8	4	21.48	8.43	0.007
64QAM	714.5	23165	3	8	7	21.28	8.23	0.007
64QAM	714.5	23165	3	15	0	21.43	8.38	0.007

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	23.36	10.31	0.011
QPSK	701.5	23035	5	1	12	23.44	10.39	0.011
QPSK	701.5	23035	5	1	24	23.27	10.22	0.011
QPSK	701.5	23035	5	12	0	22.37	9.32	0.009
QPSK	701.5	23035	5	12	7	22.45	9.40	0.009
QPSK	701.5	23035	5	12	13	22.48	9.43	0.009
QPSK	701.5	23035	5	25	0	22.48	9.43	0.009
QPSK	707.5	23095	5	1	0	23.48	10.43	0.011
QPSK	707.5	23095	5	1	12	23.56	10.51	0.011
QPSK	707.5	23095	5	1	24	23.40	10.35	0.011
QPSK	707.5	23095	5	12	0	22.43	9.38	0.009
QPSK	707.5	23095	5	12	7	22.43	9.38	0.009
QPSK	707.5	23095	5	12	13	22.54	9.49	0.009
QPSK	707.5	23095	5	25	0	22.44	9.39	0.009
QPSK	713.5	23155	5	1	0	23.54	10.49	0.011
QPSK	713.5	23155	5	1	12	23.49	10.44	0.011
QPSK	713.5	23155	5	1	24	23.37	10.32	0.011
QPSK	713.5	23155	5	12	0	22.36	9.31	0.009
QPSK	713.5	23155	5	12	7	22.53	9.48	0.009
QPSK	713.5	23155	5	12	13	22.41	9.36	0.009
QPSK	713.5	23155	5	25	0	22.36	9.31	0.009

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	701.5	23035	5	1	0	22.93	9.88	0.010
16QAM	701.5	23035	5	1	12	22.99	9.94	0.010
16QAM	701.5	23035	5	1	24	22.71	9.66	0.009
16QAM	701.5	23035	5	12	0	21.38	8.33	0.007
16QAM	701.5	23035	5	12	7	21.52	8.47	0.007
16QAM	701.5	23035	5	12	13	21.27	8.22	0.007
16QAM	701.5	23035	5	25	0	21.46	8.41	0.007
16QAM	707.5	23095	5	1	0	22.64	9.59	0.009
16QAM	707.5	23095	5	1	12	23.05	10.00	0.010
16QAM	707.5	23095	5	1	24	22.51	9.46	0.009
16QAM	707.5	23095	5	12	0	21.57	8.52	0.007
16QAM	707.5	23095	5	12	7	21.43	8.38	0.007
16QAM	707.5	23095	5	12	13	21.48	8.43	0.007
16QAM	707.5	23095	5	25	0	21.41	8.36	0.007
16QAM	713.5	23155	5	1	0	22.60	9.55	0.009
16QAM	713.5	23155	5	1	12	22.52	9.47	0.009
16QAM	713.5	23155	5	1	24	22.07	9.02	0.008
16QAM	713.5	23155	5	12	0	21.37	8.32	0.007
16QAM	713.5	23155	5	12	7	21.50	8.45	0.007
16QAM	713.5	23155	5	12	13	21.38	8.33	0.007
16QAM	713.5	23155	5	25	0	21.47	8.42	0.007
64QAM	701.5	23035	5	1	0	22.27	9.22	0.008
64QAM	701.5	23035	5	1	12	22.29	9.24	0.008
64QAM	701.5	23035	5	1	24	22.26	9.21	0.008
64QAM	701.5	23035	5	12	0	21.38	8.33	0.007
64QAM	701.5	23035	5	12	7	21.41	8.36	0.007
64QAM	701.5	23035	5	12	13	21.38	8.33	0.007
64QAM	701.5	23035	5	25	0	21.48	8.43	0.007
64QAM	707.5	23095	5	1	0	22.82	9.77	0.009
64QAM	707.5	23095	5	1	12	22.79	9.74	0.009
64QAM	707.5	23095	5	1	24	22.51	9.46	0.009
64QAM	707.5	23095	5	12	0	21.47	8.42	0.007
64QAM	707.5	23095	5	12	7	21.33	8.28	0.007
64QAM	707.5	23095	5	12	13	21.51	8.46	0.007
64QAM	707.5	23095	5	25	0	21.32	8.27	0.007
64QAM	713.5	23155	5	1	0	22.75	9.70	0.009
64QAM	713.5	23155	5	1	12	22.37	9.32	0.009
64QAM	713.5	23155	5	1	24	22.42	9.37	0.009
64QAM	713.5	23155	5	12	0	21.36	8.31	0.007
64QAM	713.5	23155	5	12	7	21.58	8.53	0.007
64QAM	713.5	23155	5	12	13	21.48	8.43	0.007
64QAM	713.5	23155	5	25	0	21.37	8.32	0.007

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	704	23060	10	1	0	23.42	10.37	0.011
QPSK	704	23060	10	1	25	23.46	10.41	0.011
QPSK	704	23060	10	1	49	23.32	10.27	0.011
QPSK	704	23060	10	25	0	22.38	9.33	0.009
QPSK	704	23060	10	25	12	22.48	9.43	0.009
QPSK	704	23060	10	25	25	22.45	9.40	0.009
QPSK	704	23060	10	50	0	22.45	9.40	0.009
QPSK	707.5	23095	10	1	0	23.35	10.30	0.011
QPSK	707.5	23095	10	1	25	23.44	10.39	0.011
QPSK	707.5	23095	10	1	49	23.39	10.34	0.011
QPSK	707.5	23095	10	25	0	22.38	9.33	0.009
QPSK	707.5	23095	10	25	12	22.44	9.39	0.009
QPSK	707.5	23095	10	25	25	22.52	9.47	0.009
QPSK	707.5	23095	10	50	0	22.44	9.39	0.009
QPSK	711	23130	10	1	0	23.57	10.52	0.011
QPSK	711	23130	10	1	25	23.48	10.43	0.011
QPSK	711	23130	10	1	49	23.21	10.16	0.010
QPSK	711	23130	10	25	0	22.47	9.42	0.009
QPSK	711	23130	10	25	12	22.47	9.42	0.009
QPSK	711	23130	10	25	25	22.41	9.36	0.009
QPSK	711	23130	10	50	0	22.48	9.43	0.009

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	704	23060	10	1	0	22.84	9.79	0.010
16QAM	704	23060	10	1	25	22.36	9.31	0.009
16QAM	704	23060	10	1	49	23.32	10.27	0.011
16QAM	704	23060	10	25	0	21.47	8.42	0.007
16QAM	704	23060	10	25	12	21.51	8.46	0.007
16QAM	704	23060	10	25	25	21.41	8.36	0.007
16QAM	704	23060	10	50	0	21.59	8.54	0.007
16QAM	707.5	23095	10	1	0	22.90	9.85	0.010
16QAM	707.5	23095	10	1	25	22.68	9.63	0.009
16QAM	707.5	23095	10	1	49	22.60	9.55	0.009
16QAM	707.5	23095	10	25	0	21.43	8.38	0.007
16QAM	707.5	23095	10	25	12	21.57	8.52	0.007
16QAM	707.5	23095	10	25	25	21.54	8.49	0.007
16QAM	707.5	23095	10	50	0	21.38	8.33	0.007
16QAM	711	23130	10	1	0	23.57	10.52	0.011
16QAM	711	23130	10	1	25	22.89	9.84	0.010
16QAM	711	23130	10	1	49	22.79	9.74	0.009
16QAM	711	23130	10	25	0	21.40	8.35	0.007
16QAM	711	23130	10	25	12	21.57	8.52	0.007
16QAM	711	23130	10	25	25	21.32	8.27	0.007
16QAM	711	23130	10	50	0	21.55	8.50	0.007
64QAM	704	23060	10	1	0	22.51	9.46	0.009
64QAM	704	23060	10	1	25	22.76	9.71	0.009
64QAM	704	23060	10	1	49	22.57	9.52	0.009
64QAM	704	23060	10	25	0	21.43	8.38	0.007
64QAM	704	23060	10	25	12	21.43	8.38	0.007
64QAM	704	23060	10	25	25	21.43	8.38	0.007
64QAM	704	23060	10	50	0	21.52	8.47	0.007
64QAM	707.5	23095	10	1	0	22.50	9.45	0.009
64QAM	707.5	23095	10	1	25	22.63	9.58	0.009
64QAM	707.5	23095	10	1	49	22.88	9.83	0.010
64QAM	707.5	23095	10	25	0	21.45	8.40	0.007
64QAM	707.5	23095	10	25	12	21.44	8.39	0.007
64QAM	707.5	23095	10	25	25	21.45	8.40	0.007
64QAM	707.5	23095	10	50	0	21.40	8.35	0.007
64QAM	711	23130	10	1	0	22.93	9.88	0.010
64QAM	711	23130	10	1	25	22.45	9.40	0.009
64QAM	711	23130	10	1	49	22.19	9.14	0.008
64QAM	711	23130	10	25	0	21.48	8.43	0.007
64QAM	711	23130	10	25	12	21.56	8.51	0.007
64QAM	711	23130	10	25	25	21.37	8.32	0.007
64QAM	711	23130	10	50	0	21.48	8.43	0.007