

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

**LTE Band 17
1 RF Power Output**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	706.5	23755	5	1	0	23.31
				1	12	23.12
				1	24	23.18
				12	0	22.32
				12	7	22.35
				12	13	22.28
	25	0		22.46		
	710	23790		1	0	23.26
				1	12	23.24
				1	24	23.16
				12	0	22.41
				12	7	22.34
				12	13	22.33
	25	0		22.34		
	713.5	23825		1	0	23.28
				1	12	23.17
				1	24	23.24
				12	0	22.35
12			7	22.36		
12			13	22.26		
25	0	22.37				
16QAM	706.5	23755	1	0	22.57	
			1	12	22.42	
			1	24	22.39	
			12	0	21.34	
			12	7	21.30	
			12	13	21.21	
	25	0	21.40			
	710	23790	1	0	22.55	
			1	12	22.30	
			1	24	22.46	
			12	0	21.35	
			12	7	21.30	
			12	13	21.30	
	25	0	21.32			
	713.5	23825	1	0	22.78	
			1	12	22.66	
			1	24	22.61	
			12	0	21.44	
12			7	21.27		
12			13	21.26		
25	0	21.23				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	706.5	23755	5	1	0	21.31
				1	12	21.20
				1	24	21.17
				12	0	20.40
				12	7	20.36
				12	13	20.19
				25	0	20.37
	710	23790		1	0	21.21
				1	12	21.30
				1	24	21.13
				12	0	20.38
				12	7	20.31
				12	13	20.27
				25	0	20.31
	713.5	23825		1	0	21.64
				1	12	21.45
				1	24	21.46
				12	0	20.43
				12	7	20.49
				12	13	20.37
				25	0	20.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	709	23780	10	1	0	23.31
				1	25	23.20
				1	49	22.97
				25	0	22.38
				25	12	22.39
				25	25	22.26
	710	23790		50	0	22.43
				1	0	23.25
				1	25	23.07
				1	49	23.12
				25	0	22.31
				25	12	22.34
	711	23800		25	25	22.32
				50	0	22.41
				1	0	23.39
				1	25	23.28
				1	49	23.16
				25	0	22.33
16QAM	709	23780	25	12	22.23	
			25	25	22.28	
			50	0	22.40	
			1	0	23.30	
			1	25	22.85	
			1	49	22.66	
	710	23790	25	0	21.40	
			25	12	21.47	
			25	25	21.28	
			50	0	21.39	
			1	0	23.06	
			1	25	23.05	
	711	23800	1	49	23.02	
			25	0	21.40	
			25	12	21.41	
			25	25	21.27	
			50	0	21.38	
			1	0	22.74	
			1	25	22.35	
			1	49	22.45	
			25	0	21.44	
			25	12	21.34	
			25	25	21.34	
			50	0	21.23	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	709	23780	10	1	0	21.91
				1	25	21.74
				1	49	21.76
				25	0	20.39
				25	12	20.36
				25	25	20.34
				50	0	20.46
	710	23790		1	0	21.59
				1	25	21.40
				1	49	21.39
				25	0	20.47
				25	12	20.43
				25	25	20.39
				50	0	20.45
	711	23800		1	0	21.13
				1	25	21.13
				1	49	21.08
				25	0	20.53
				25	12	20.36
				25	25	20.41
				50	0	20.37

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
17	706.5	23755	5	25	0	4.472	Fig.1	4.472	Fig.2	4.493	Fig.3
	710	23790		25	0	4.472	Fig.4	4.472	Fig.5	4.472	Fig.6
	713.5	23825		25	0	4.493	Fig.7	4.493	Fig.8	4.472	Fig.9
	709	23780	10	50	0	8.944	Fig.10	8.944	Fig.11	8.944	Fig.12
	710	23790		50	0	8.944	Fig.13	8.944	Fig.14	8.944	Fig.15
	711	23800		50	0	8.900	Fig.16	8.900	Fig.17	8.900	Fig.18

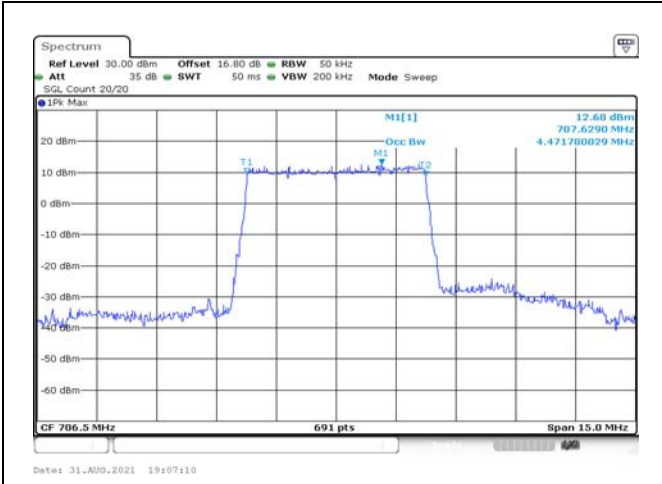


Fig.1

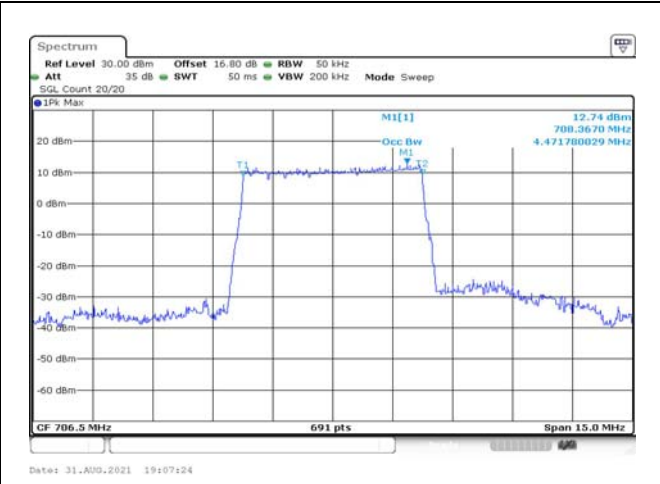


Fig.2

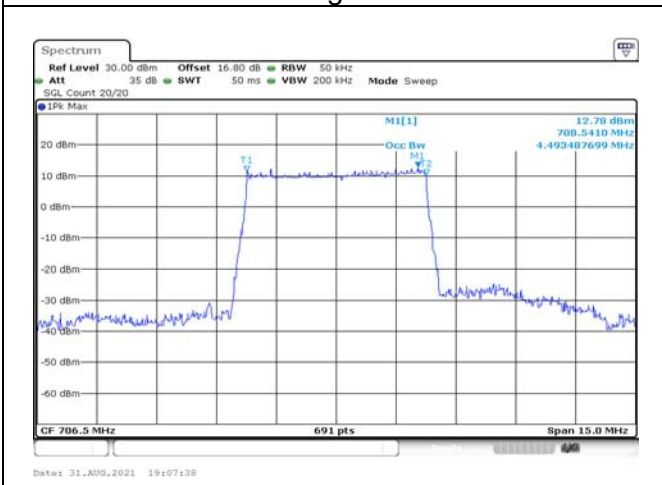


Fig.3

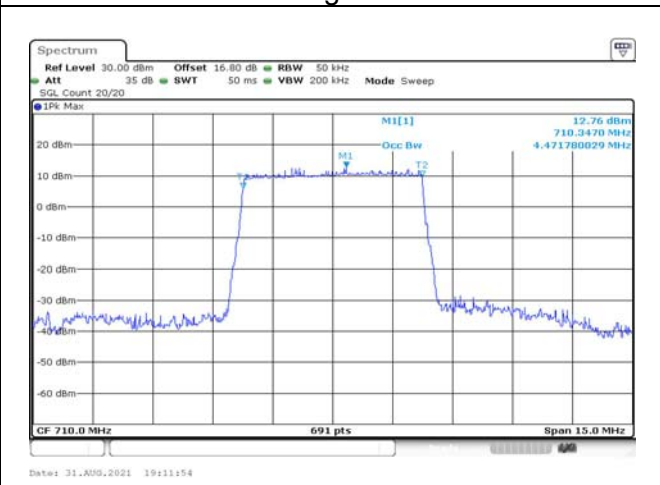


Fig.4

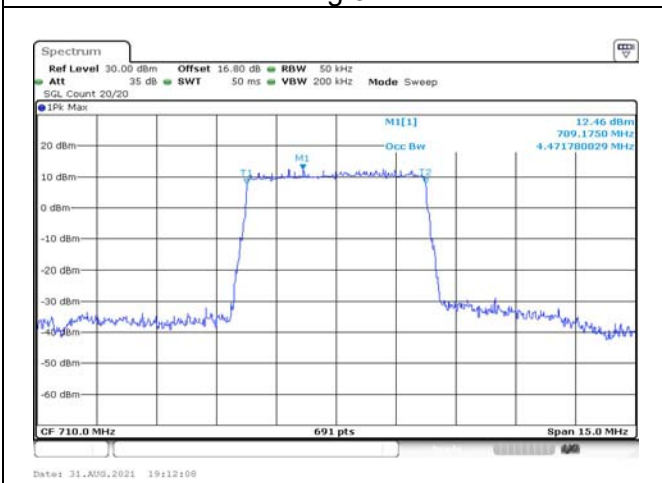


Fig.5

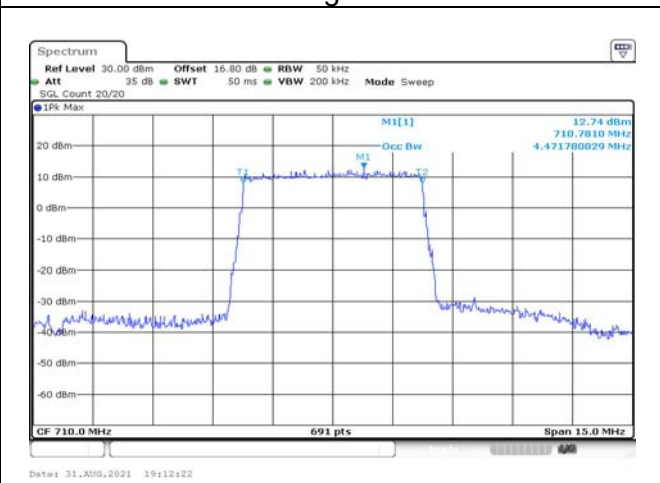


Fig.6

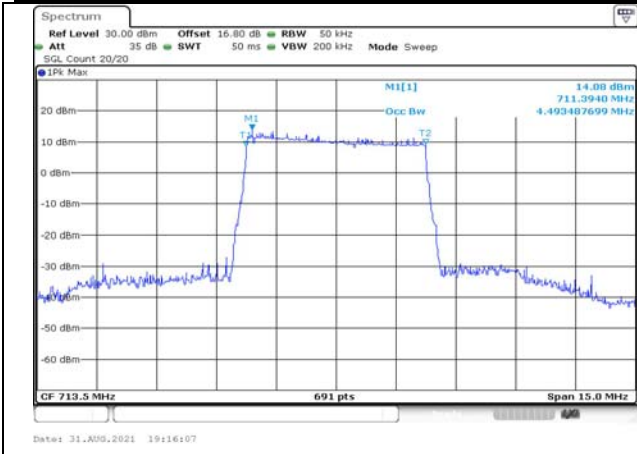


Fig.7

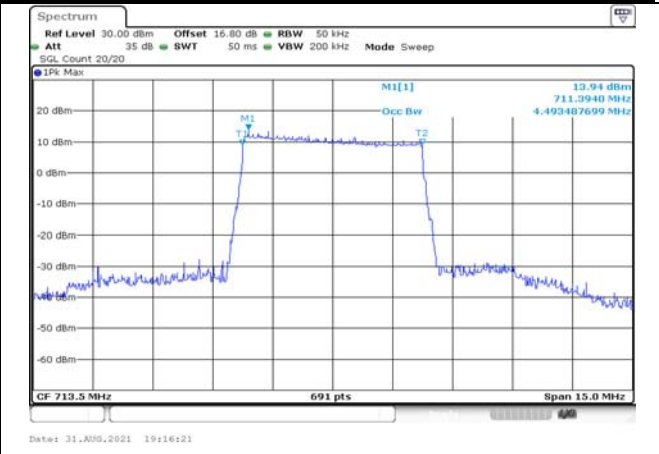


Fig.8

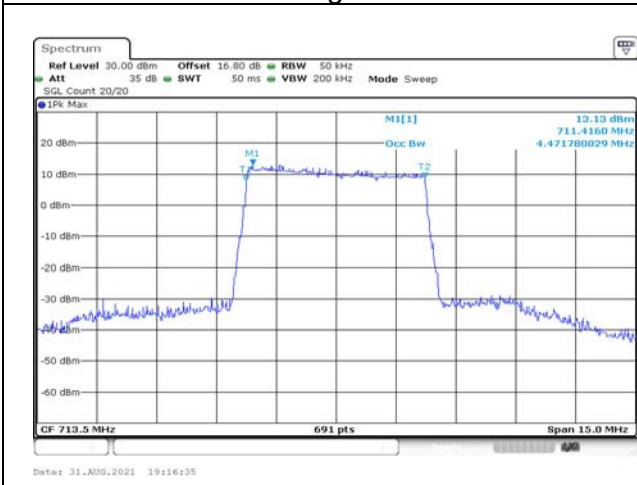


Fig.9

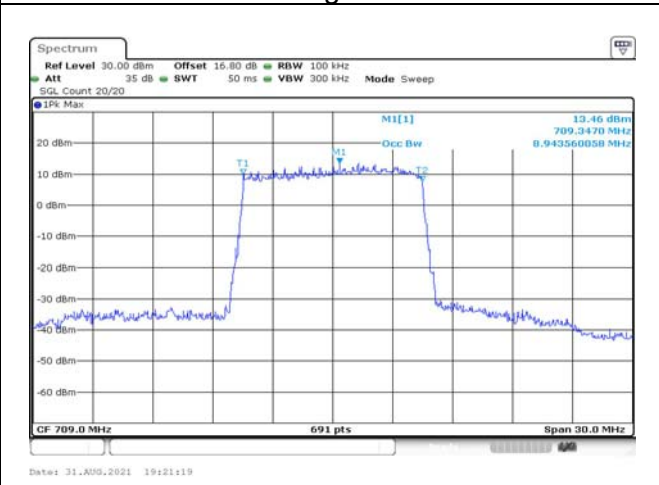


Fig.10

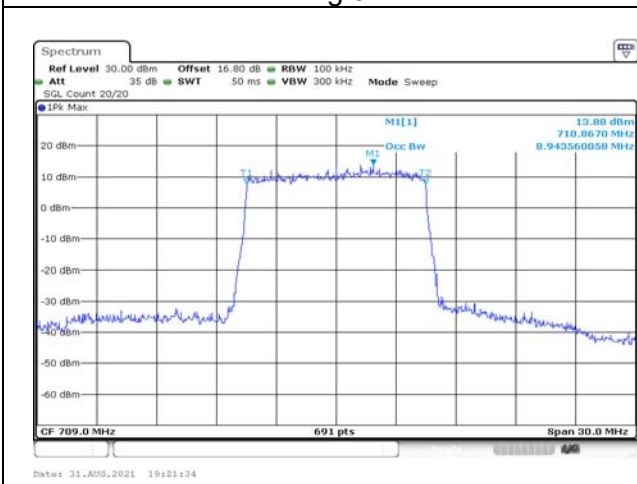


Fig.11

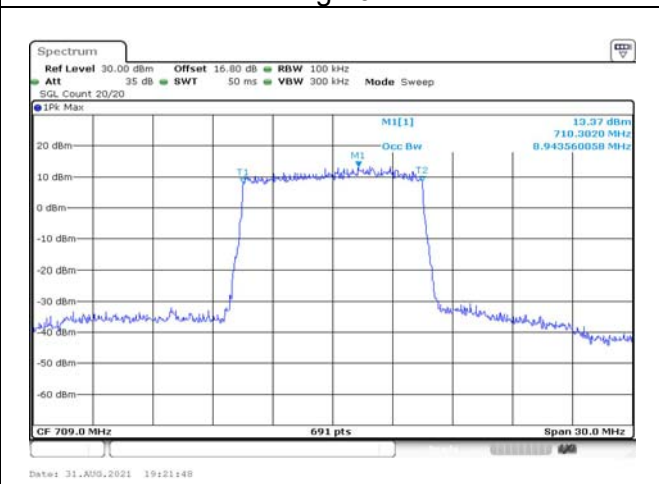


Fig.12

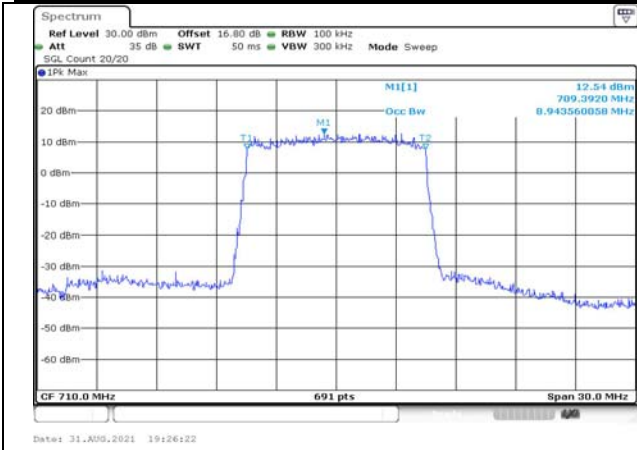


Fig.13

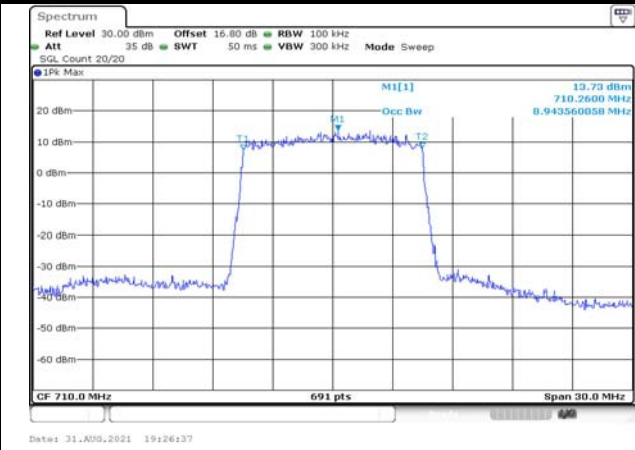


Fig.14

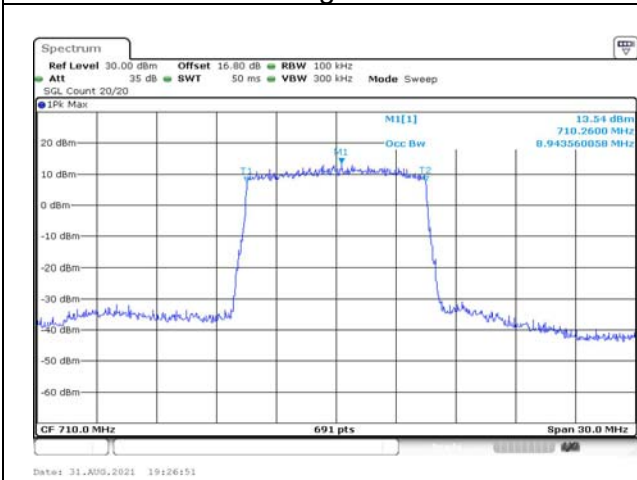


Fig.15

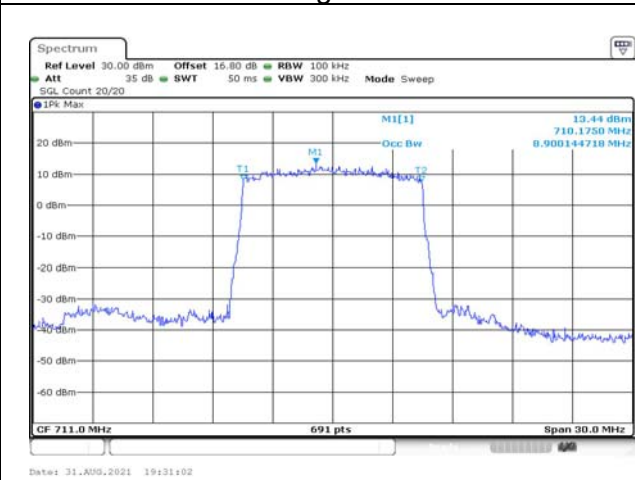


Fig.16

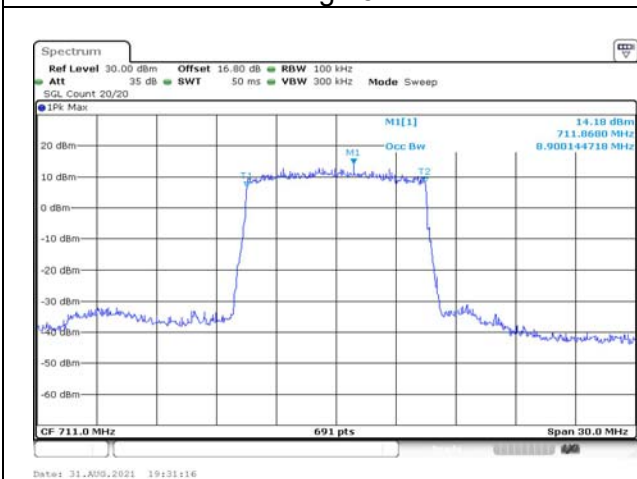


Fig.17

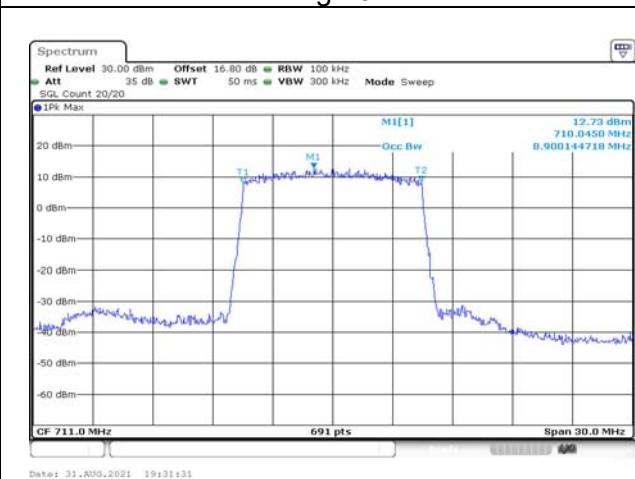


Fig.18

3 Emission Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
17	706.5	23755	5	25	0	4.884	Fig.1	4.906	Fig.2	4.884	Fig.3
	710	23790		25	0	4.863	Fig.4	4.863	Fig.5	4.863	Fig.6
	713.5	23825		25	0	4.819	Fig.7	4.841	Fig.8	4.797	Fig.9
	709	23780	10	50	0	9.551	Fig.10	9.595	Fig.11	9.508	Fig.12
	710	23790		50	0	9.595	Fig.13	9.595	Fig.14	9.551	Fig.15
	711	23800		50	0	9.508	Fig.16	9.551	Fig.17	9.551	Fig.18

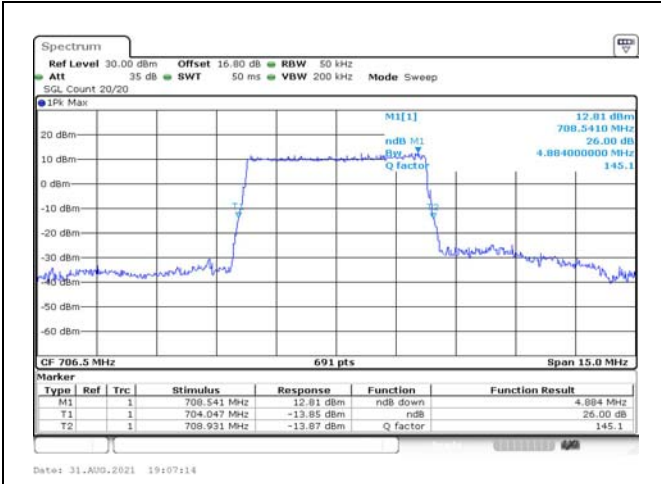


Fig.1

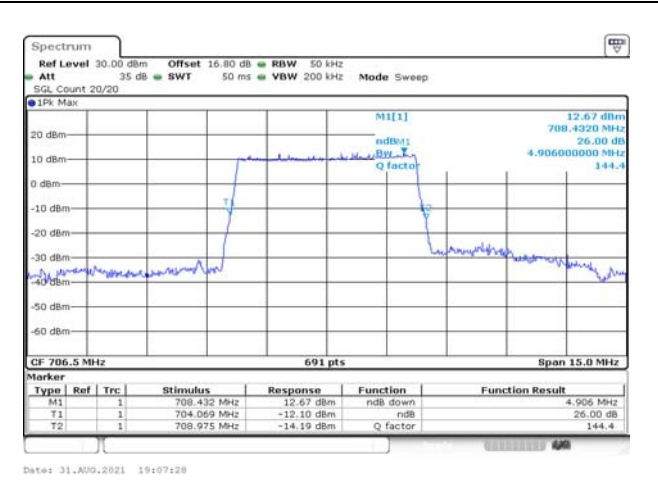


Fig.2

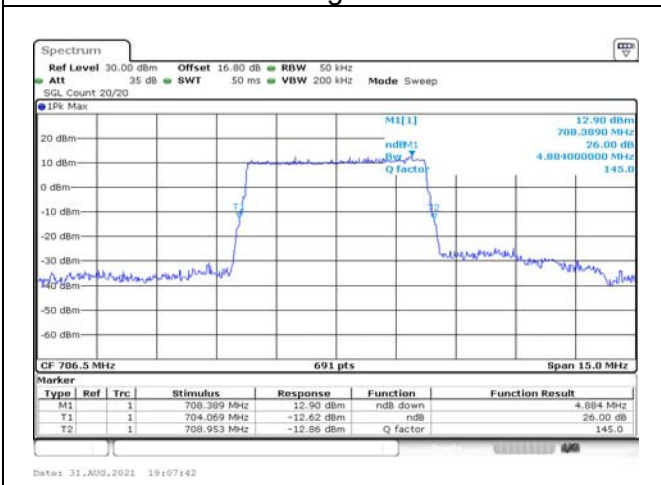


Fig.3

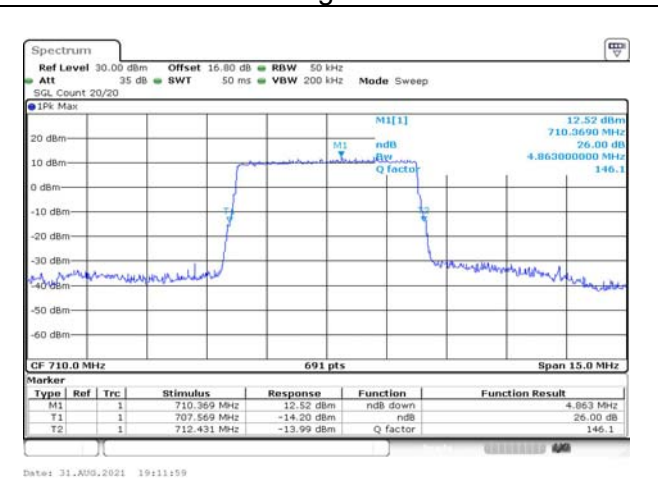


Fig.4

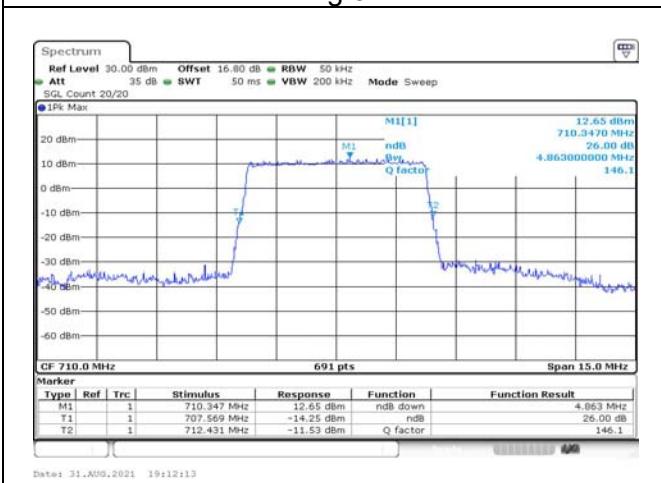


Fig.5

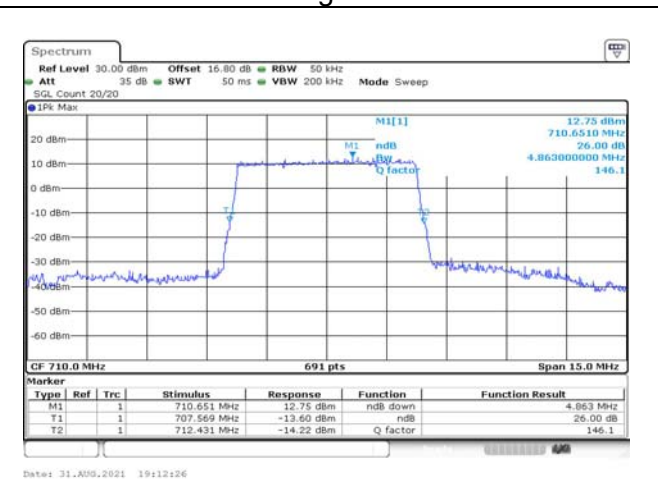


Fig.6

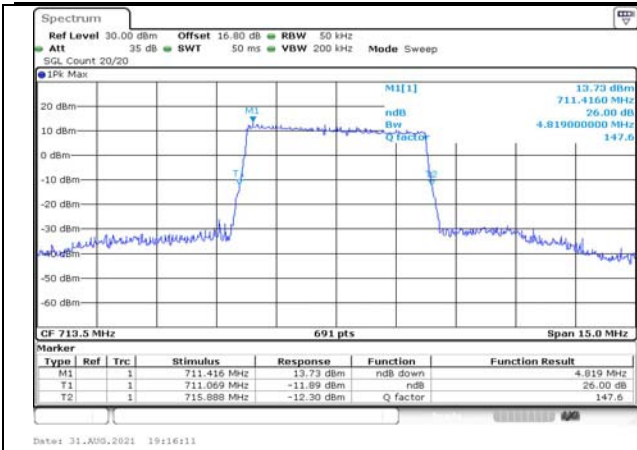


Fig.7

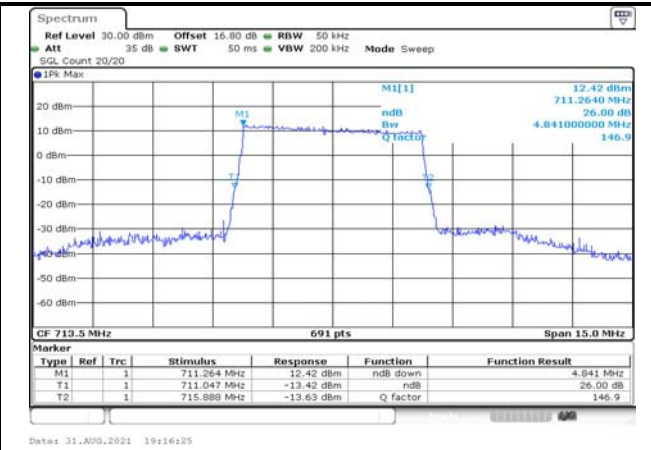


Fig.8

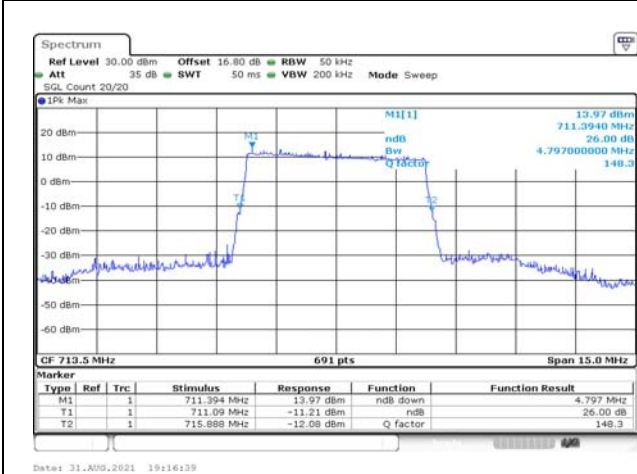


Fig.9

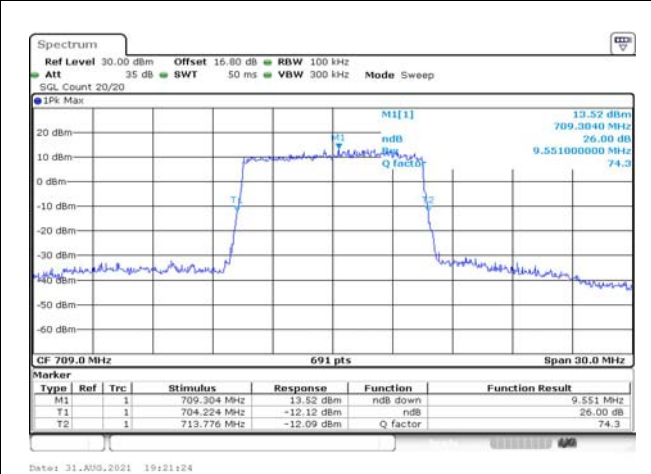


Fig.10

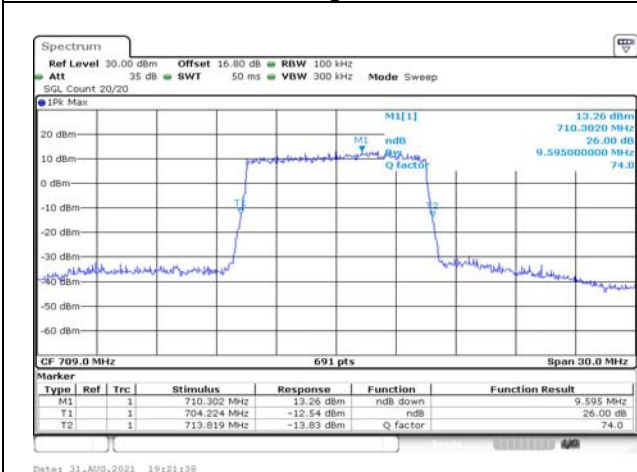


Fig.11

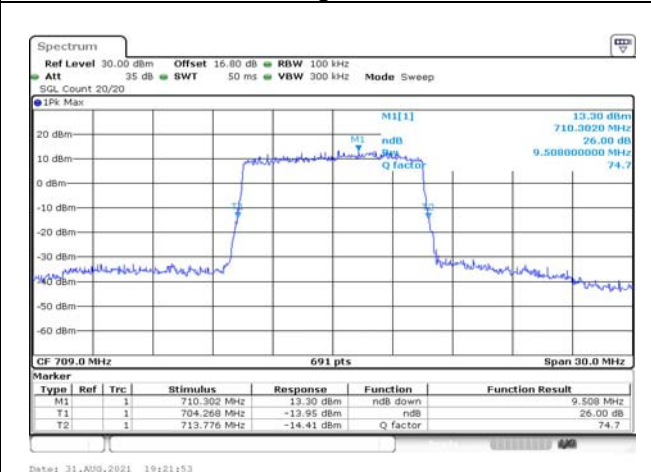


Fig.12

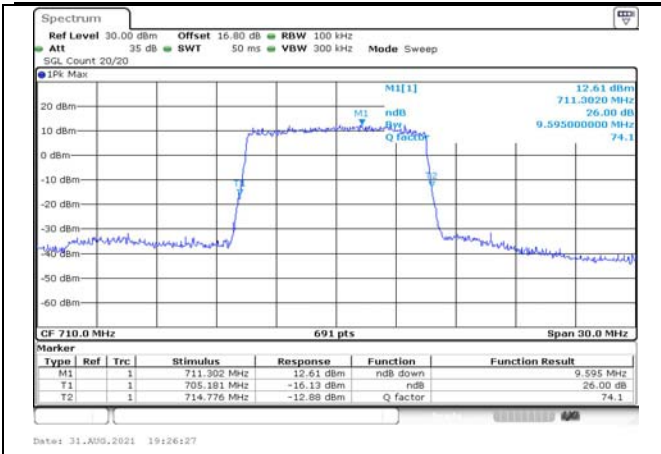


Fig.13

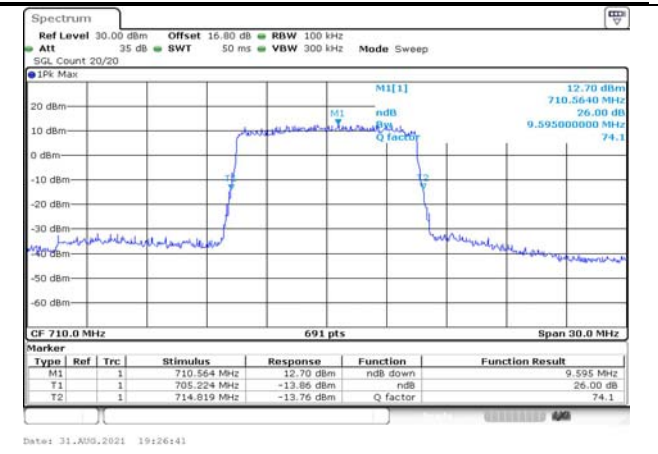


Fig.14

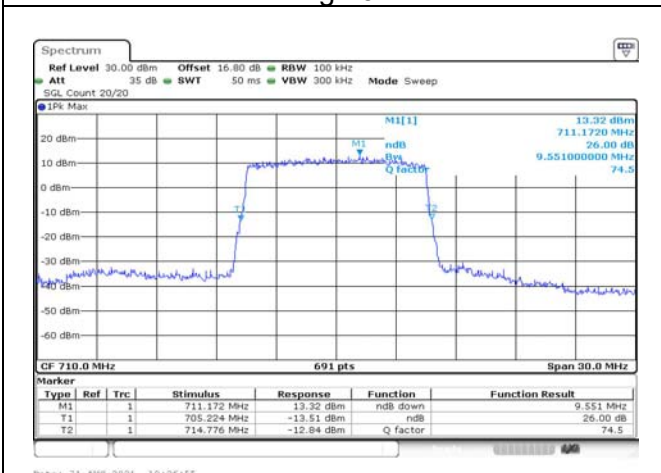


Fig.15

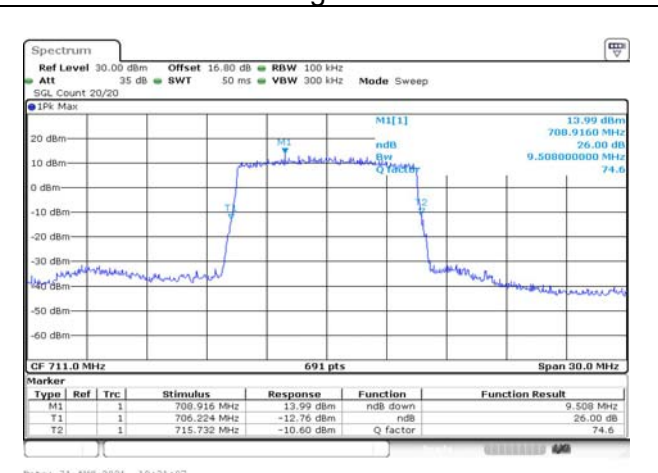


Fig.16

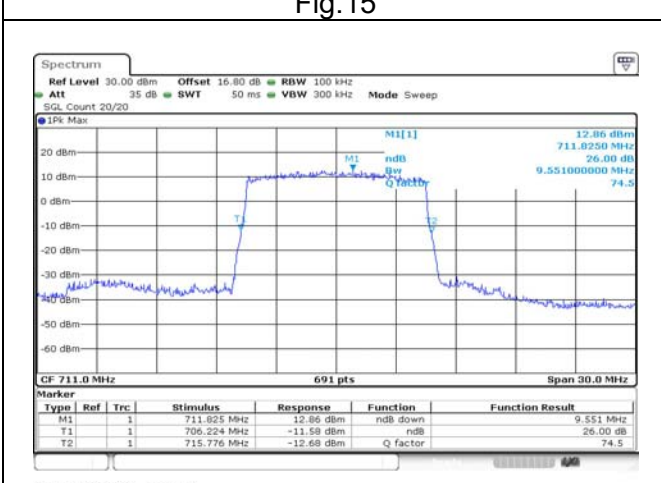


Fig.17

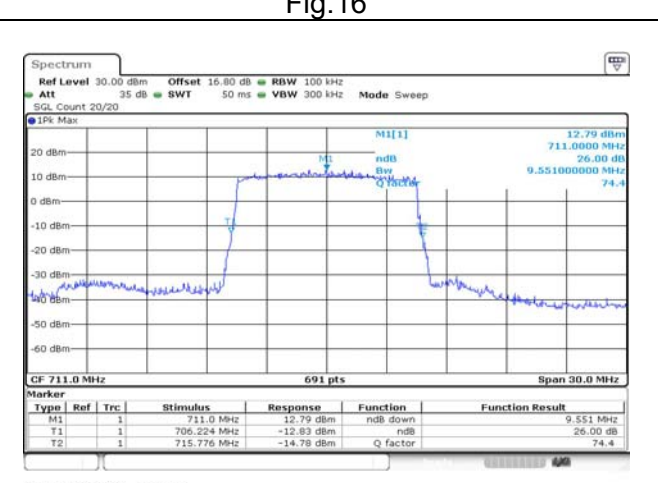


Fig.18

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
17	706.5	23755	5	1	24	Fig.1	Fig.2	Fig.3
	706.5	23755		25	0	Fig.4	Fig.5	Fig.6
	710	23790		1	24	Fig.7	Fig.8	Fig.9
	710	23790		25	0	Fig.10	Fig.11	Fig.12
	713.5	23825		1	24	Fig.13	Fig.14	Fig.15
	713.5	23825		25	0	Fig.16	Fig.17	Fig.18
	709	23780	10	1	49	Fig.19	Fig.20	Fig.21
	709	23780		50	0	Fig.22	Fig.23	Fig.24
	710	23790		1	49	Fig.25	Fig.26	Fig.27
	710	23790		50	0	Fig.28	Fig.29	Fig.30
	711	23800		1	49	Fig.31	Fig.32	Fig.33
	711	23800		50	0	Fig.34	Fig.35	Fig.36

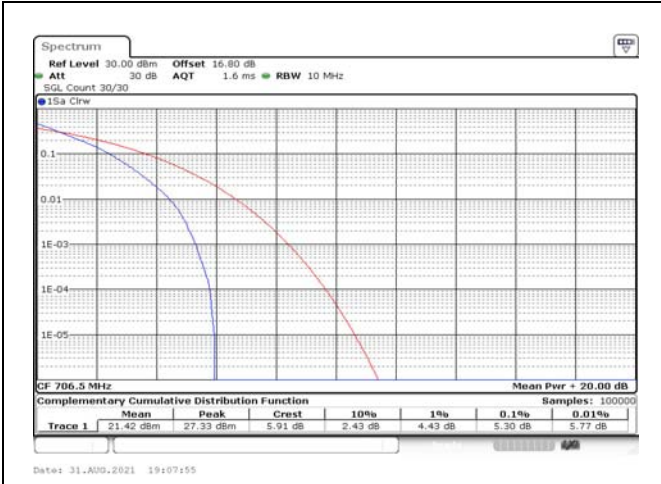


Fig.1

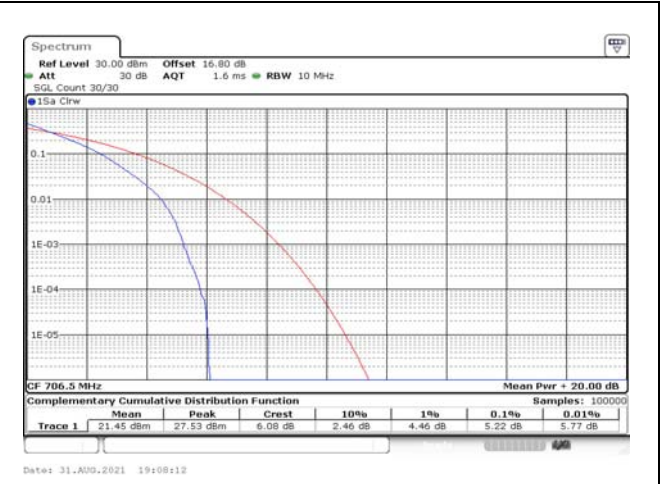


Fig.2

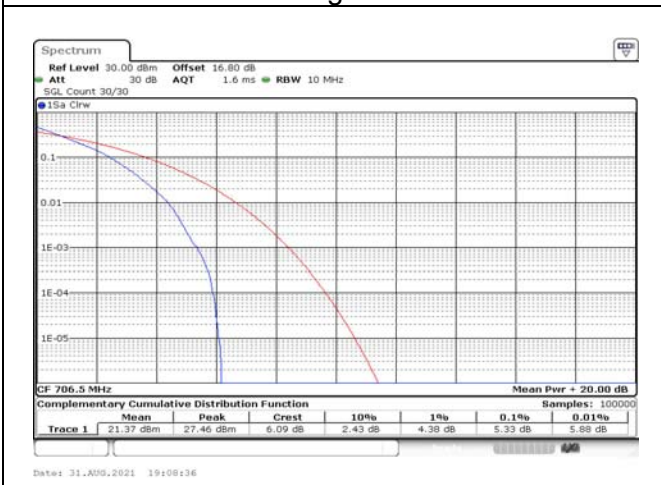


Fig.3

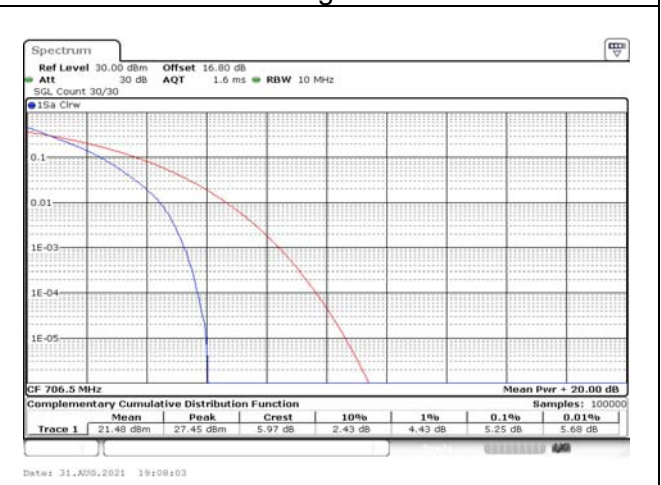


Fig.4

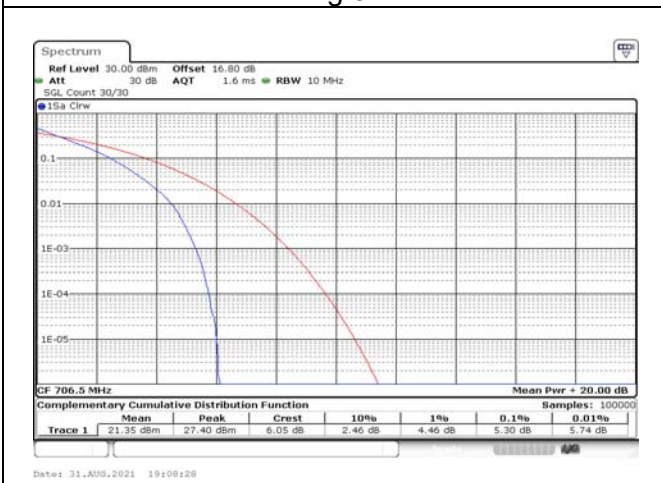


Fig.5

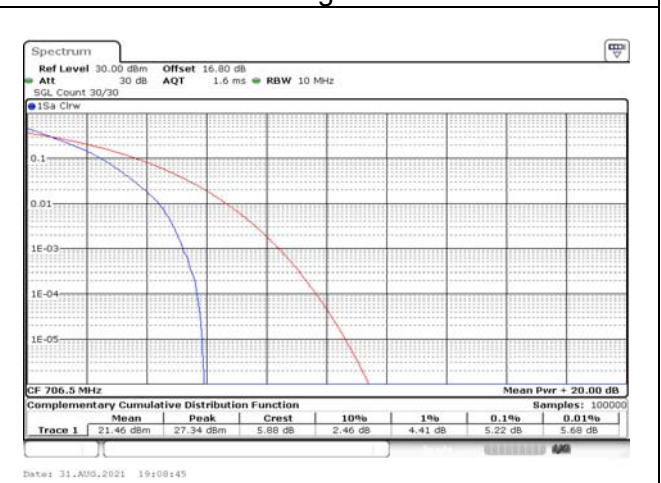


Fig.6



Fig.7

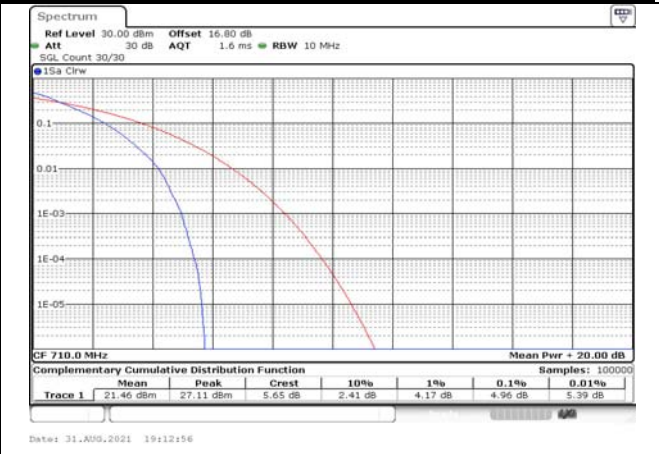


Fig.8

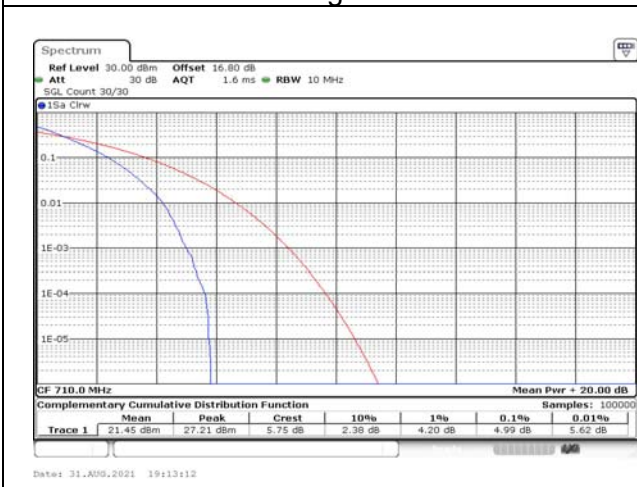


Fig.9

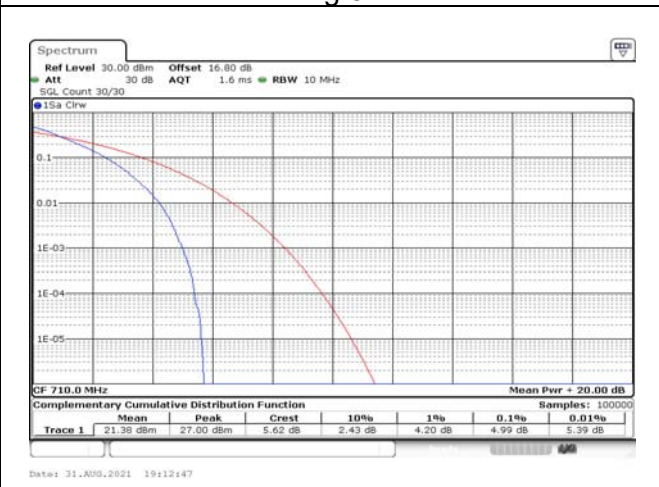


Fig.10



Fig.11

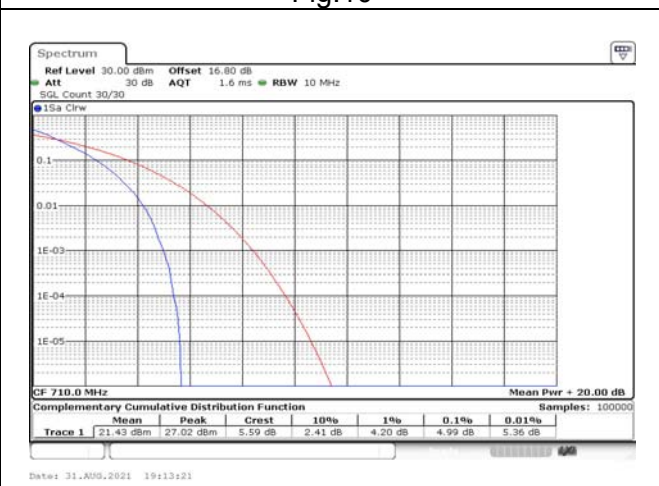


Fig.12



Fig.13

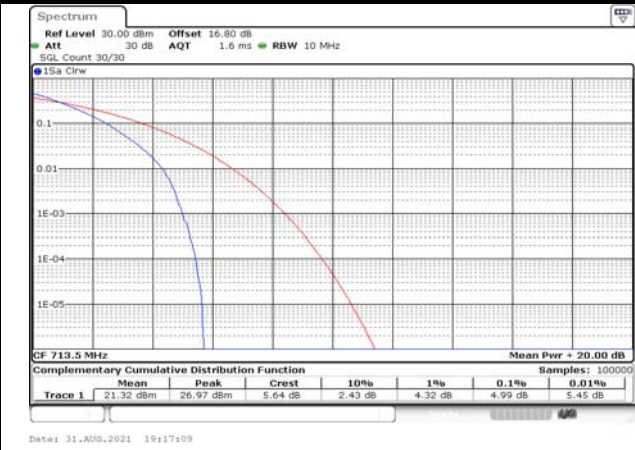


Fig.14

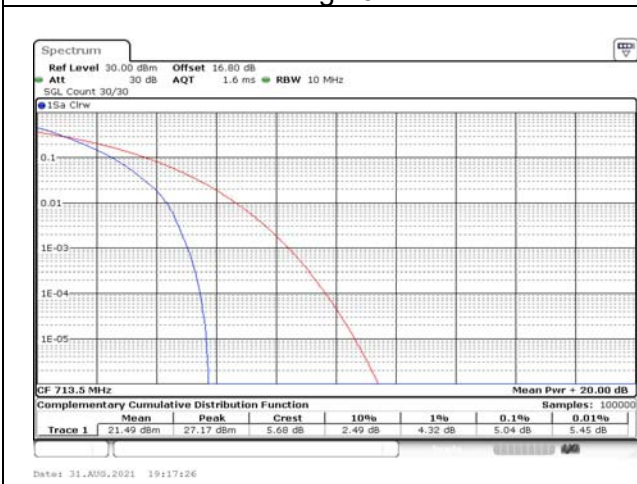


Fig.15

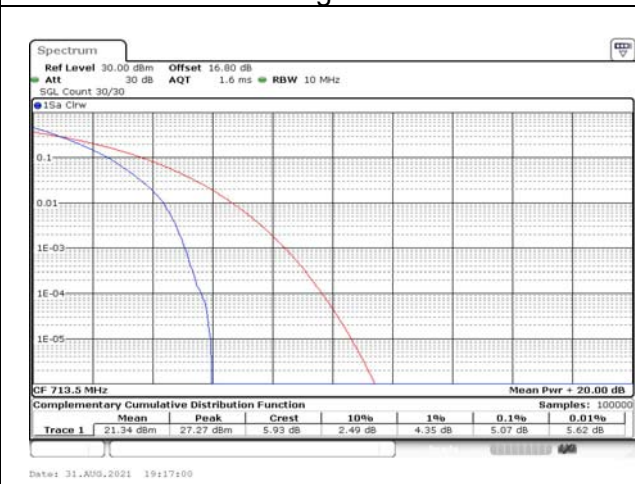


Fig.16

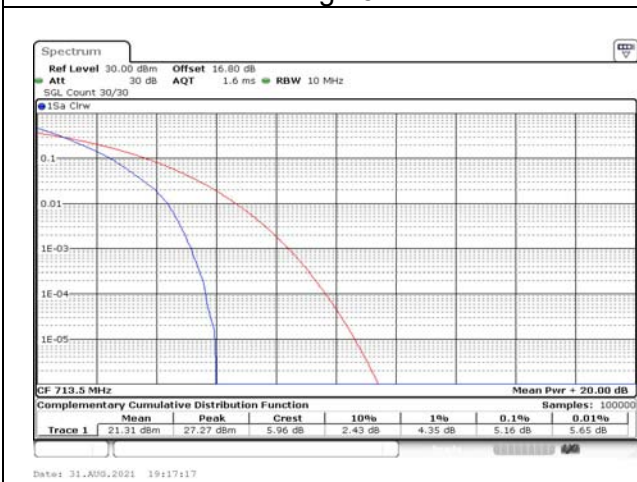


Fig.17

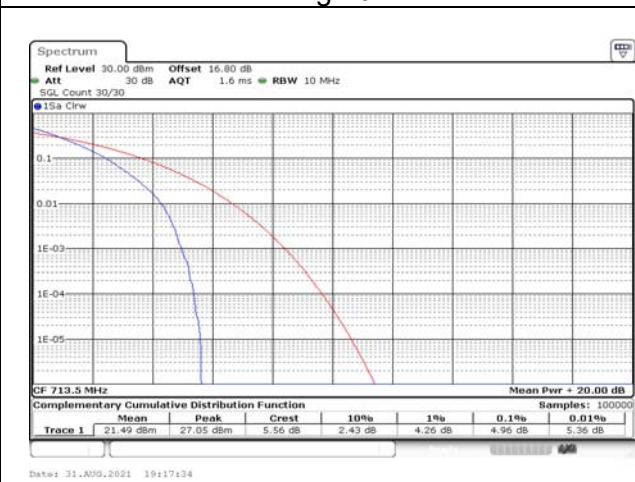


Fig.18

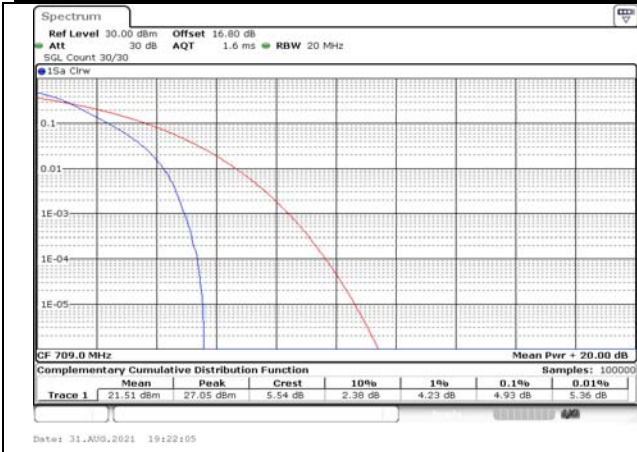


Fig.19

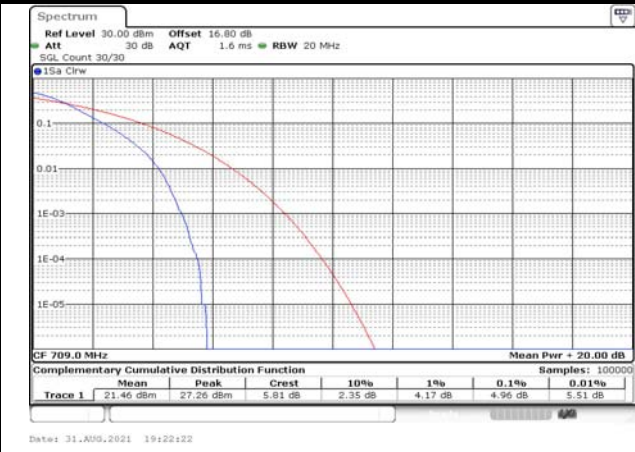


Fig.20

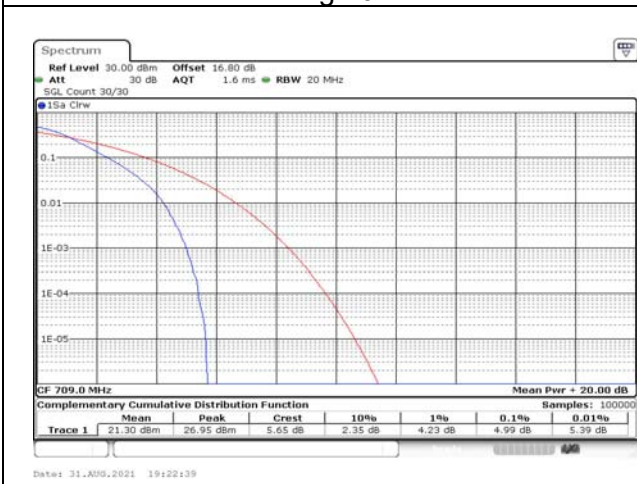


Fig.21

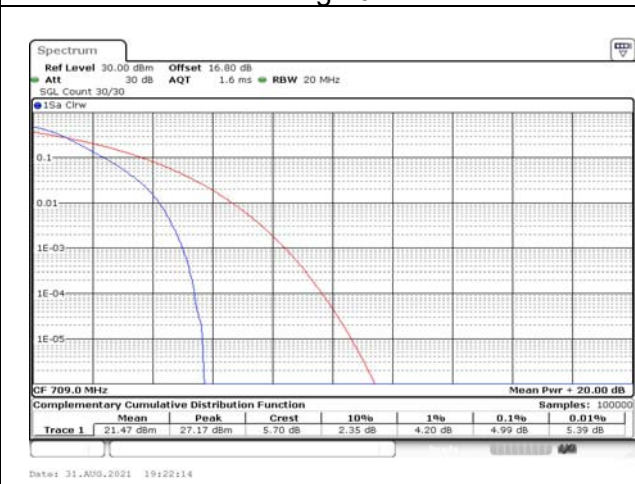


Fig.22

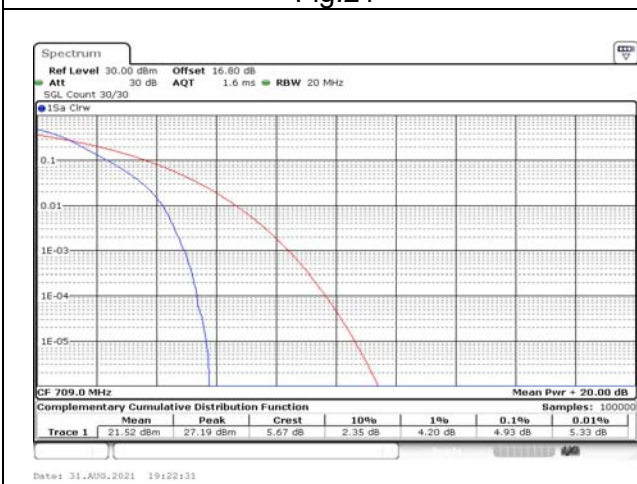


Fig.23

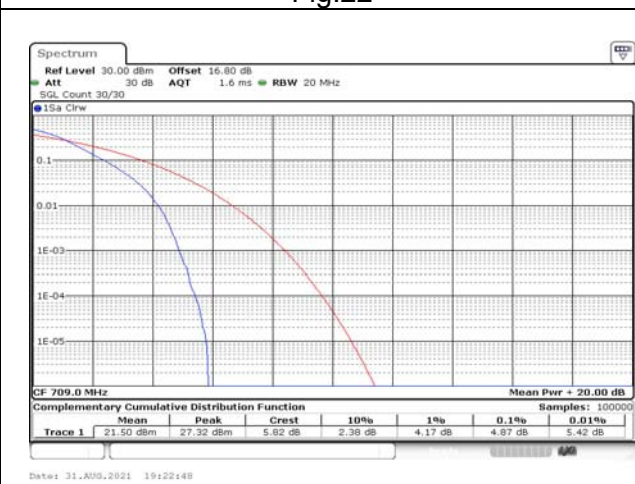


Fig.24

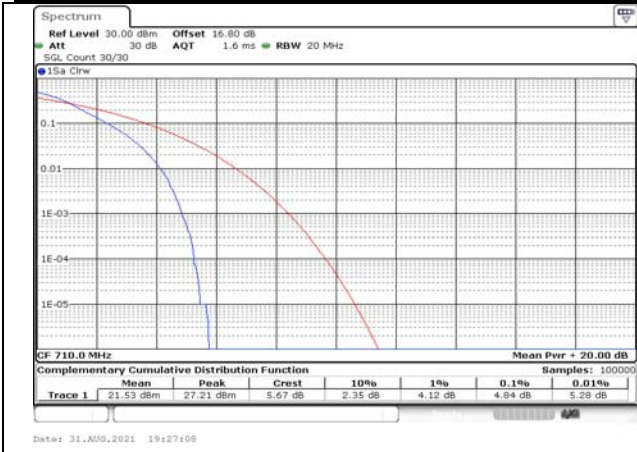


Fig.25

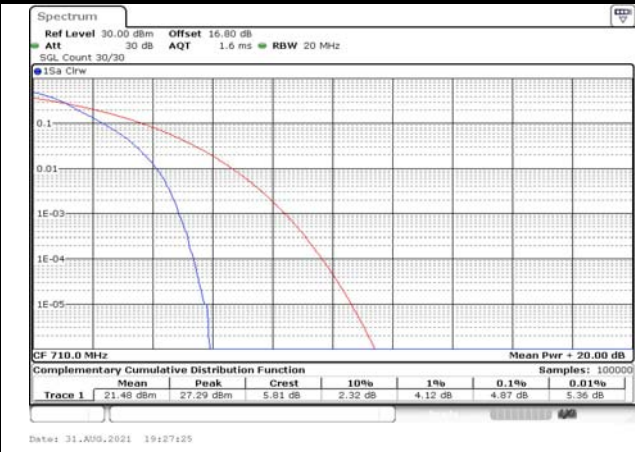


Fig.26

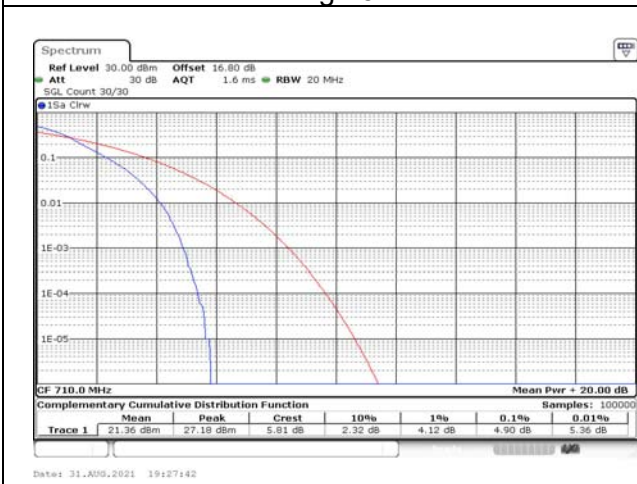


Fig.27

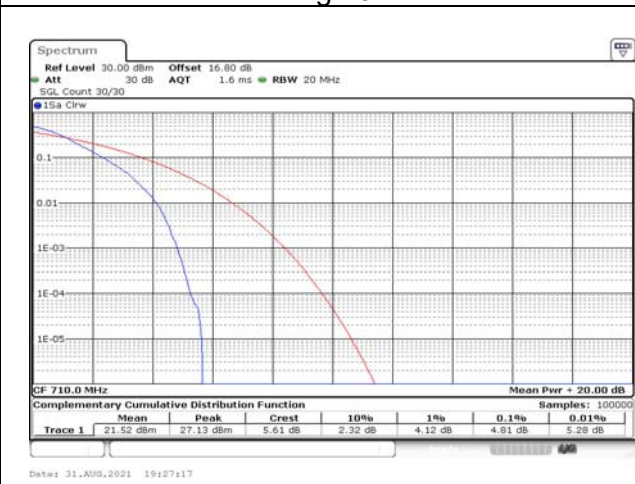


Fig.28

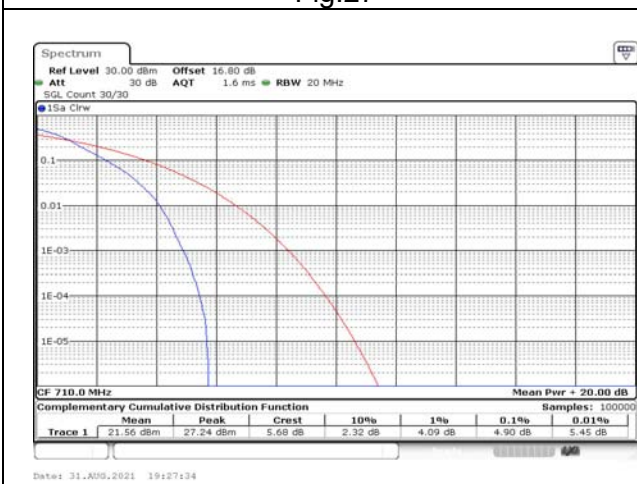


Fig.29

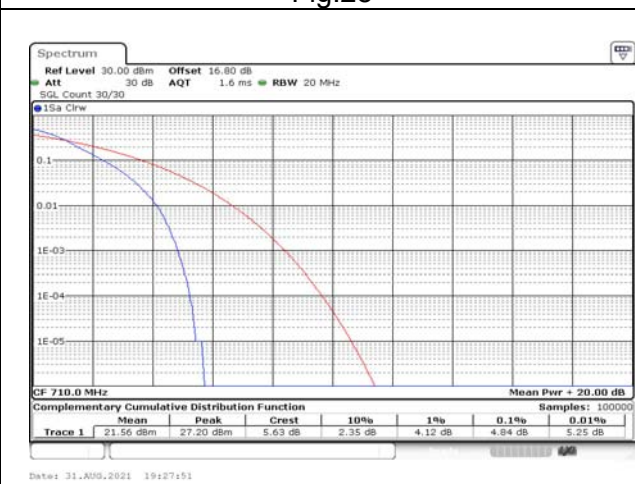


Fig.30



Fig.31

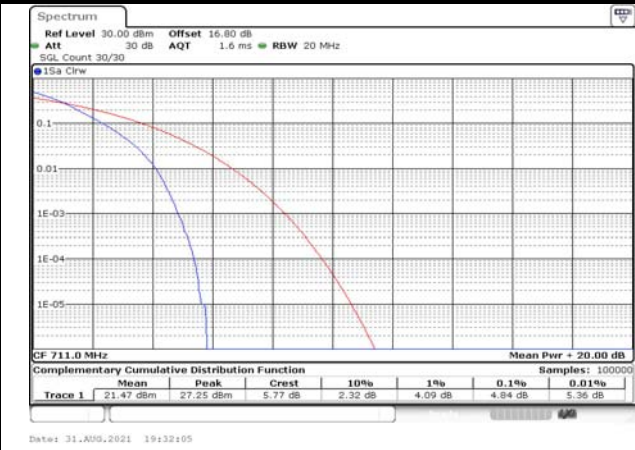


Fig.32

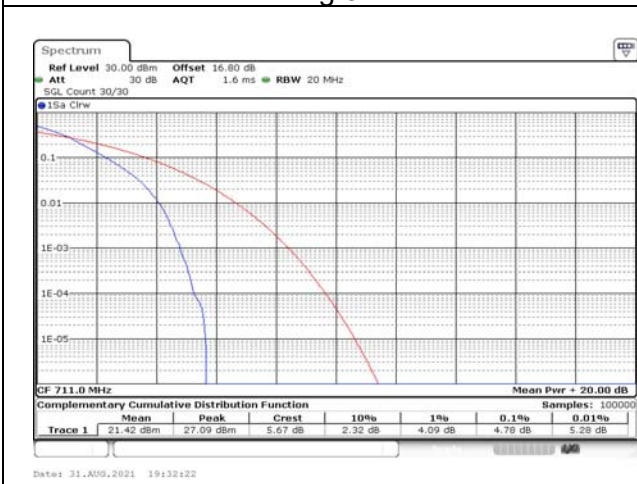


Fig.33

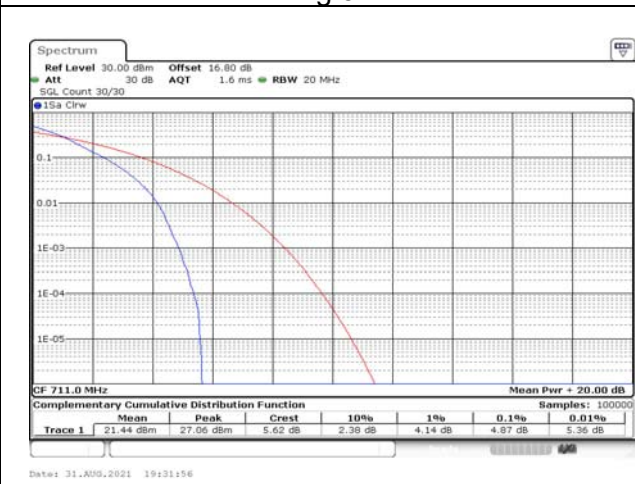


Fig.34

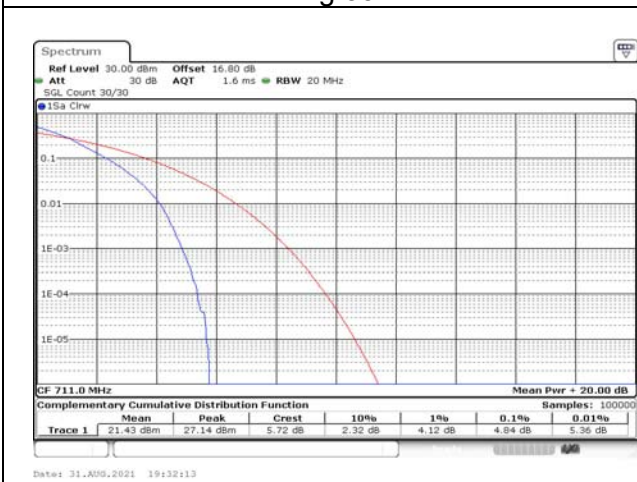


Fig.35

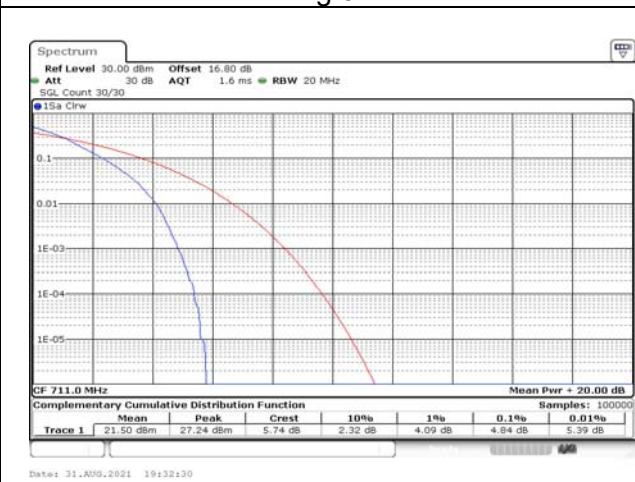


Fig.36

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
17	709	23780	10	1	0	Fig.1
	710	23790		1	0	Fig.2
	711	23800		1	0	Fig.3

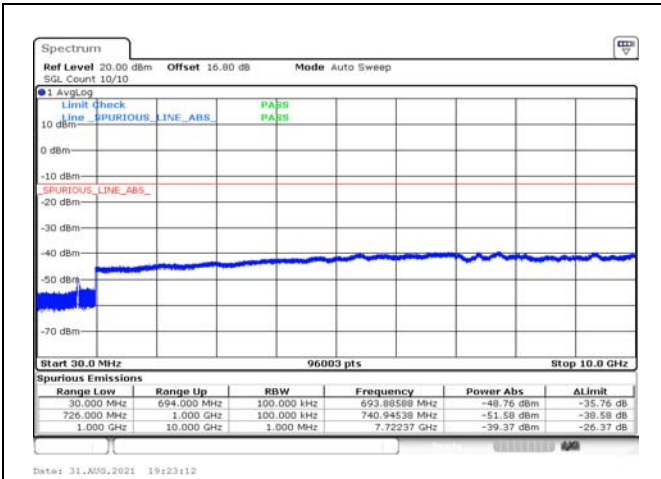


Fig.1

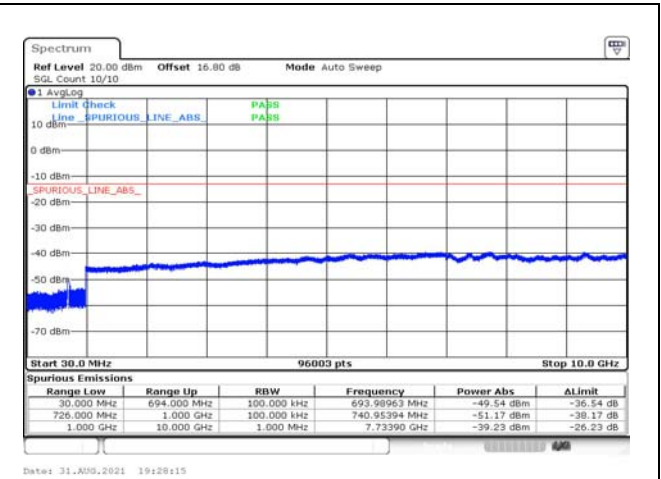


Fig.2

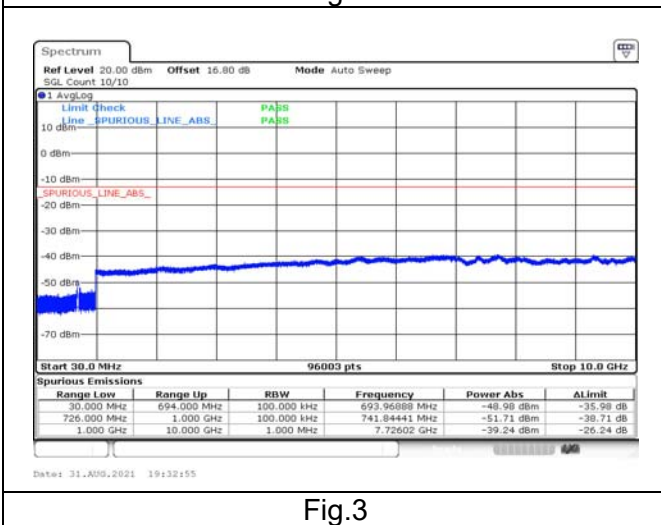


Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
17	706.5	23755	5	1	0	Fig.1
				25	0	Fig.2
	1	24		Fig.3		
	25	0		Fig.4		
	709	23780	10	1	0	Fig.5
				50	0	Fig.6
				1	49	Fig.7
				50	0	Fig.8
711	23800					

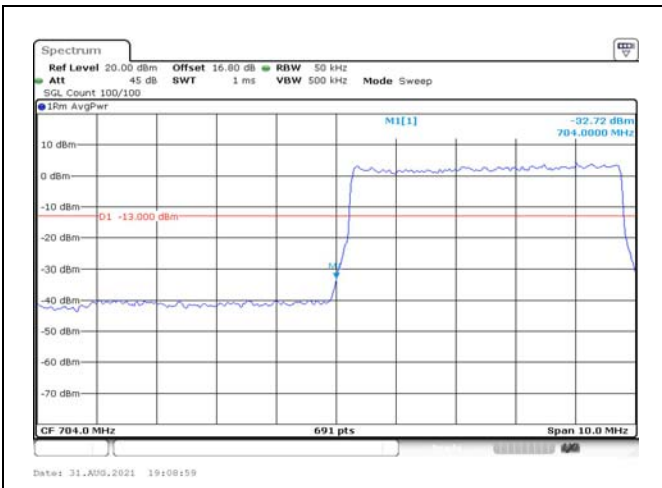


Fig.1

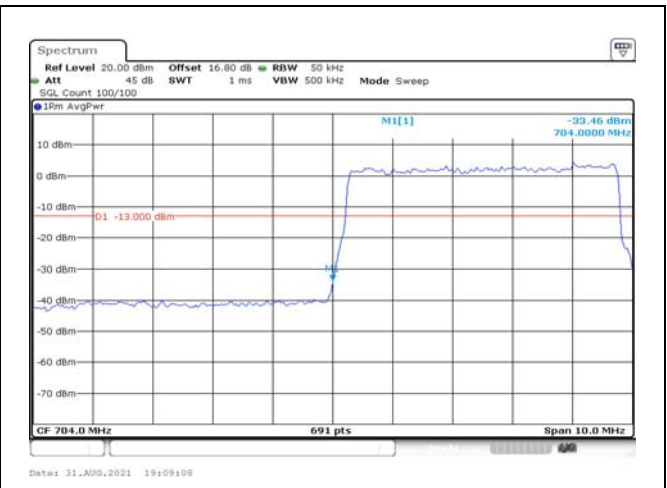


Fig.2

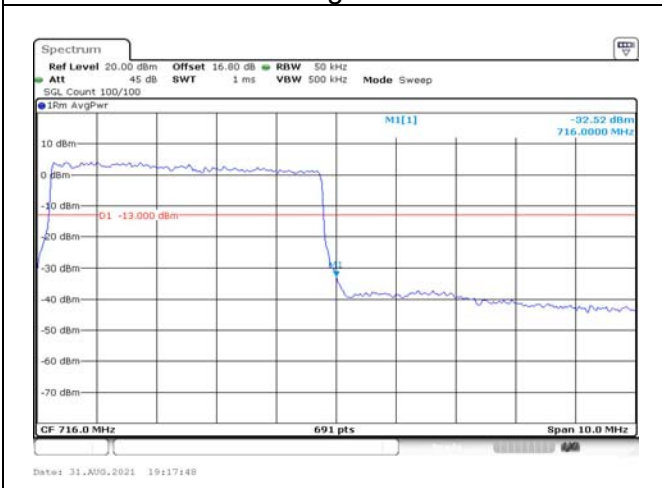


Fig.3

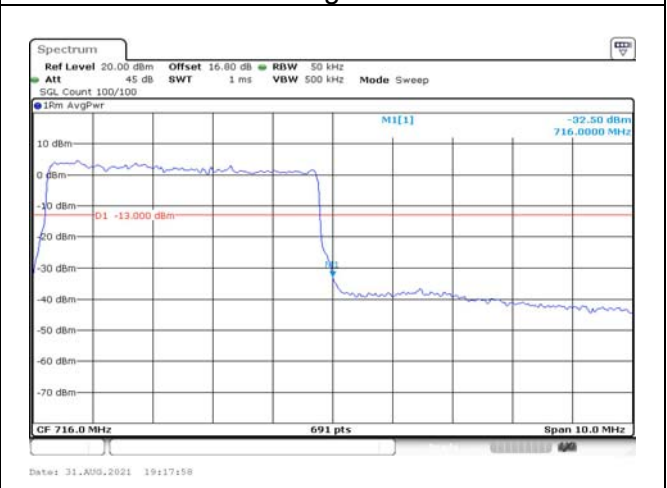


Fig.4



Fig.5

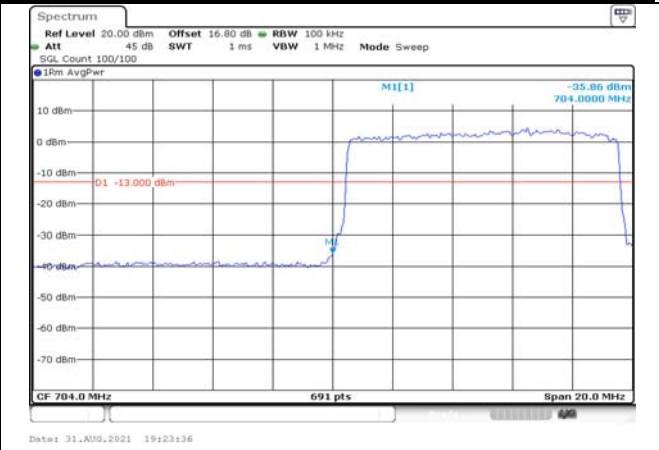


Fig.6

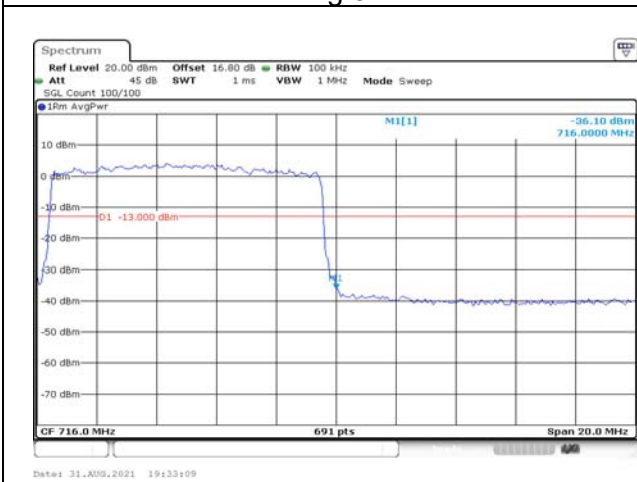


Fig.7

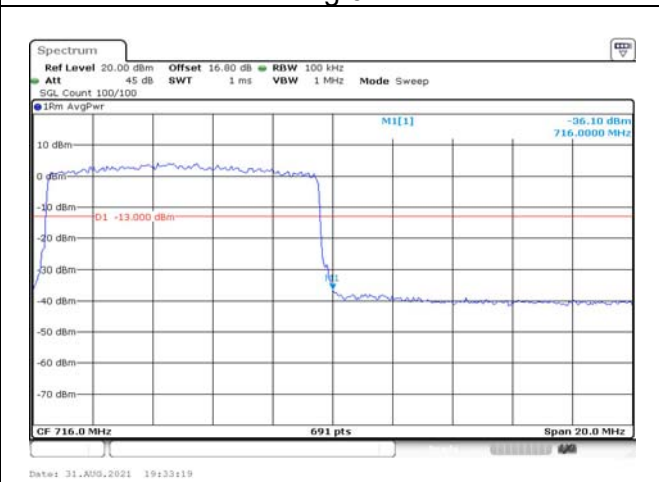


Fig.8

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band17 Low Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	---	---	0.003	0.002	---	---
0	NV	---	---	0.005	0.001	---	---
+10	NV	---	---	0.001	0.003	---	---
+20	NV	---	---	-0.002	-0.001	---	---
+30	NV	---	---	0.000	0.001	---	---
+40	NV	---	---	0.002	0.001	---	---
+50	NV	---	---	-0.002	0.002	---	---
+20	LV	---	---	0.000	0.000	---	---
+20	HV	---	---	0.001	0.002	---	---

Temperature(°C)	Voltage	Test Result (ppm) Band17 High Channel QPSK					
		1.4M	3M	5M	10M	15M	20M
-10	NV	---	---	0.002	0.001	---	---
0	NV	---	---	0.006	0.005	---	---
+10	NV	---	---	0.000	0.003	---	---
+20	NV	---	---	0.002	-0.001	---	---
+30	NV	---	---	-0.002	0.002	---	---
+40	NV	---	---	-0.001	0.001	---	---
+50	NV	---	---	0.003	0.001	---	---
+20	LV	---	---	0.002	-0.002	---	---
+20	HV	---	---	0.001	0.000	---	---

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)
QPSK	706.5	23755	5	1	0	23.31	9.66	0.009
				1	12	23.12	9.47	0.009
				1	24	23.18	9.53	0.009
				12	0	22.32	8.67	0.007
				12	7	22.35	8.70	0.007
				12	13	22.28	8.63	0.007
	710	23790		25	0	22.46	8.81	0.008
				1	0	23.26	9.61	0.009
				1	12	23.24	9.59	0.009
				1	24	23.16	9.51	0.009
				12	0	22.41	8.76	0.008
				12	7	22.34	8.69	0.007
				12	13	22.33	8.68	0.007
				25	0	22.34	8.69	0.007
				713.5	23825	1	0	23.28
1	12	23.17	9.52			0.009		
1	24	23.24	9.59			0.009		
12	0	22.35	8.70			0.007		
12	7	22.36	8.71			0.007		
12	13	22.26	8.61			0.007		
16QAM	706.5	23755	25	0	22.37	8.72	0.007	
			1	0	22.57	8.92	0.008	
			1	12	22.42	8.77	0.008	
			1	24	22.39	8.74	0.007	
			12	0	21.34	7.69	0.006	
			12	7	21.30	7.65	0.006	
	710	23790	12	13	21.21	7.56	0.006	
			25	0	21.40	7.75	0.006	
			1	0	22.55	8.90	0.008	
			1	12	22.30	8.65	0.007	
			1	24	22.46	8.81	0.008	
			12	0	21.35	7.70	0.006	
			12	7	21.30	7.65	0.006	
			12	13	21.30	7.65	0.006	
			25	0	21.32	7.67	0.006	
713.5	23825	1	0	22.78	9.13	0.008		
		1	12	22.66	9.01	0.008		
		1	24	22.61	8.96	0.008		
		12	0	21.44	7.79	0.006		
		12	7	21.27	7.62	0.006		
		12	13	21.26	7.61	0.006		
25	0	21.23	7.58	0.006				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	706.5	23755	5	1	0	21.31	7.66	0.006
				1	12	21.20	7.55	0.006
				1	24	21.17	7.52	0.006
				12	0	20.40	6.75	0.005
				12	7	20.36	6.71	0.005
				12	13	20.19	6.54	0.005
				25	0	20.37	6.72	0.005
	710	23790		1	0	21.21	7.56	0.006
				1	12	21.30	7.65	0.006
				1	24	21.13	7.48	0.006
				12	0	20.38	6.73	0.005
				12	7	20.31	6.66	0.005
				12	13	20.27	6.62	0.005
				25	0	20.31	6.66	0.005
	713.5	23825		1	0	21.64	7.99	0.006
				1	12	21.45	7.80	0.006
				1	24	21.46	7.81	0.006
				12	0	20.43	6.78	0.005
				12	7	20.49	6.84	0.005
				12	13	20.37	6.72	0.005
				25	0	20.47	6.82	0.005

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	709	23780	10	1	0	23.31	9.66	0.009
				1	25	23.20	9.55	0.009
				1	49	22.97	9.32	0.009
				25	0	22.38	8.73	0.007
				25	12	22.39	8.74	0.007
				25	25	22.26	8.61	0.007
	710	23790		50	0	22.43	8.78	0.008
				1	0	23.25	9.60	0.009
				1	25	23.07	9.42	0.009
				1	49	23.12	9.47	0.009
				25	0	22.31	8.66	0.007
				25	12	22.34	8.69	0.007
	711	23800		25	25	22.32	8.67	0.007
				50	0	22.41	8.76	0.008
				1	0	23.39	9.74	0.009
1			25	23.28	9.63	0.009		
1			49	23.16	9.51	0.009		
25			0	22.33	8.68	0.007		
16QAM	709	23780	25	12	22.23	8.58	0.007	
			25	25	22.28	8.63	0.007	
			50	0	22.40	8.75	0.007	
			1	0	23.30	9.65	0.009	
			1	25	22.85	9.20	0.008	
			1	49	22.66	9.01	0.008	
	710	23790	25	0	21.40	7.75	0.006	
			25	12	21.47	7.82	0.006	
			25	25	21.28	7.63	0.006	
			50	0	21.39	7.74	0.006	
			1	0	23.06	9.41	0.009	
			1	25	23.05	9.40	0.009	
	711	23800	1	49	23.02	9.37	0.009	
			25	0	21.40	7.75	0.006	
			25	12	21.41	7.76	0.006	
25			25	21.27	7.62	0.006		
50			0	21.38	7.73	0.006		
1			0	22.74	9.09	0.008		
			1	25	22.35	8.70	0.007	
			1	49	22.45	8.80	0.008	
			25	0	21.44	7.79	0.006	
			25	12	21.34	7.69	0.006	
			25	25	21.34	7.69	0.006	
			50	0	21.23	7.58	0.006	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conduct ed power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
64QAM	709	23780	10	1	0	21.91	8.26	0.007
				1	25	21.74	8.09	0.006
				1	49	21.76	8.11	0.006
				25	0	20.39	6.74	0.005
				25	12	20.36	6.71	0.005
				25	25	20.34	6.69	0.005
	710	23790		50	0	20.46	6.81	0.005
				1	0	21.59	7.94	0.006
				1	25	21.40	7.75	0.006
				1	49	21.39	7.74	0.006
				25	0	20.47	6.82	0.005
				25	12	20.43	6.78	0.005
	711	23800		25	25	20.39	6.74	0.005
				50	0	20.45	6.80	0.005
				1	0	21.13	7.48	0.006
				1	25	21.13	7.48	0.006
				1	49	21.08	7.43	0.006
				25	0	20.53	6.88	0.005
				25	12	20.36	6.71	0.005
				25	25	20.41	6.76	0.005
				50	0	20.37	6.72	0.005