

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Rx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	699.7	23017	1.4	1	0	23.61	
				1	3	23.60	
				1	5	23.63	
				3	0	23.69	
				3	1	23.74	
				3	3	23.72	
	6	0		22.72			
	707.5	23095		1	0	23.65	
				1	3	23.69	
				1	5	23.66	
				3	0	23.67	
				3	1	23.67	
				3	3	23.70	
	6	0		22.72			
	715.3	23173		1	0	23.60	
				1	3	23.57	
				1	5	23.55	
				3	0	23.62	
				3	1	23.51	
				3	3	23.55	
	6	0		22.57			
	16QAM	699.7		23017	1	0	22.80
					1	3	22.72
					1	5	22.72
3					0	22.92	
3					1	22.84	
3					3	22.98	
6		0		21.74			
707.5		23095		1	0	22.87	
				1	3	22.92	
				1	5	23.03	
				3	0	22.72	
				3	1	22.84	
				3	3	22.77	
6		0		21.69			
715.3		23173		1	0	22.72	
				1	3	22.77	
				1	5	22.83	
				3	0	22.84	
				3	1	22.72	
				3	3	22.72	
6		0		21.59			

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	699.7	23017	1.4	1	0	22.21
				1	3	22.23
				1	5	22.30
				3	0	21.88
				3	1	21.85
				3	3	21.84
				6	0	20.83
	707.5	23095		1	0	21.78
				1	3	21.82
				1	5	21.82
				3	0	21.75
				3	1	21.84
				3	3	21.94
				6	0	20.98
	715.3	23173		1	0	21.64
				1	3	21.60
				1	5	21.59
				3	0	21.70
				3	1	21.55
				3	3	21.71
				6	0	20.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.77
				1	8	23.57
				1	14	23.74
				8	0	22.91
				8	4	22.78
				8	7	22.78
				15	0	22.80
	707.5	23095		1	0	23.93
				1	8	23.85
				1	14	23.83
				8	0	22.84
				8	4	22.89
				8	7	22.76
				15	0	22.78
	714.5	23165		1	0	23.77
				1	8	23.57
				1	14	23.66
				8	0	22.77
				8	4	22.73
				8	7	22.70
				15	0	22.83
16QAM	700.5	23025	1	0	23.43	
			1	8	23.41	
			1	14	23.45	
			8	0	22.04	
			8	4	21.99	
			8	7	22.06	
			15	0	21.94	
	707.5	23095	1	0	22.85	
			1	8	23.09	
			1	14	22.87	
			8	0	21.95	
			8	4	21.88	
			8	7	21.82	
			15	0	21.75	
	714.5	23165	1	0	23.02	
			1	8	22.80	
			1	14	22.78	
			8	0	21.81	
			8	4	21.72	
			8	7	21.72	
			15	0	21.85	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	700.5	23025	3	1	0	22.23
				1	8	22.03
				1	14	22.20
				8	0	21.04
				8	4	20.96
				8	7	20.95
				15	0	20.89
	707.5	23095		1	0	21.92
				1	8	21.88
				1	14	21.88
				8	0	20.75
				8	4	20.75
				8	7	20.76
				15	0	21.03
	714.5	23165		1	0	21.80
				1	8	21.55
				1	14	21.63
				8	0	20.79
				8	4	20.68
				8	7	20.73
				15	0	20.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.77
				1	12	23.69
				1	24	23.72
				12	0	22.90
				12	7	22.79
				12	13	22.77
				25	0	22.80
	707.5	23095		1	0	23.76
				1	12	23.74
				1	24	23.65
				12	0	22.86
				12	7	22.80
				12	13	22.77
				25	0	22.81
	713.5	23155		1	0	23.71
				1	12	23.65
				1	24	23.62
				12	0	22.79
				12	7	22.72
				12	13	22.71
				25	0	22.71
16QAM	701.5	23035	1	0	22.80	
			1	12	22.86	
			1	24	22.58	
			12	0	21.98	
			12	7	21.71	
			12	13	21.69	
			25	0	22.00	
	707.5	23095	1	0	23.11	
			1	12	22.92	
			1	24	23.13	
			12	0	21.87	
			12	7	21.96	
			12	13	21.89	
			25	0	21.78	
	713.5	23155	1	0	22.82	
			1	12	22.90	
			1	24	22.86	
			12	0	21.75	
			12	7	21.77	
			12	13	21.73	
			25	0	21.81	

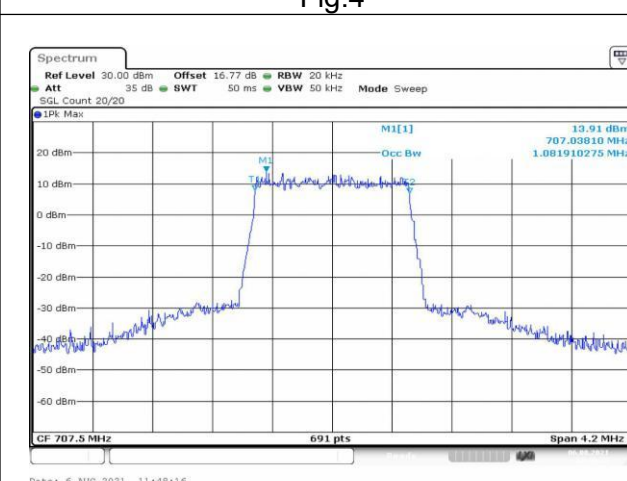
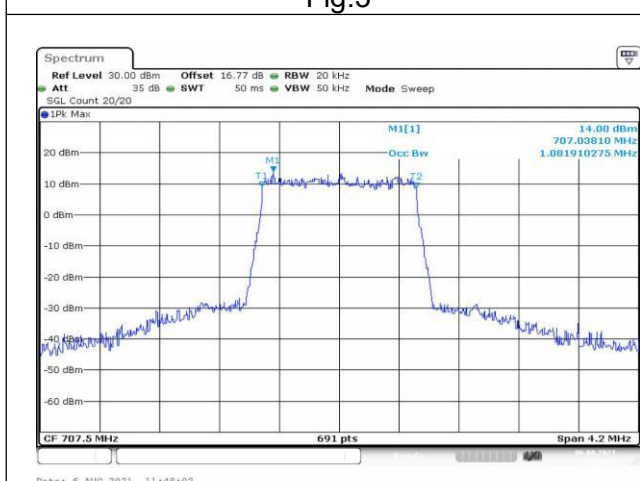
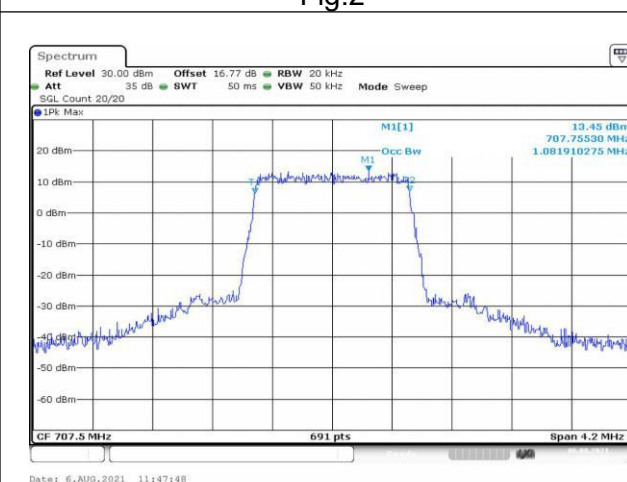
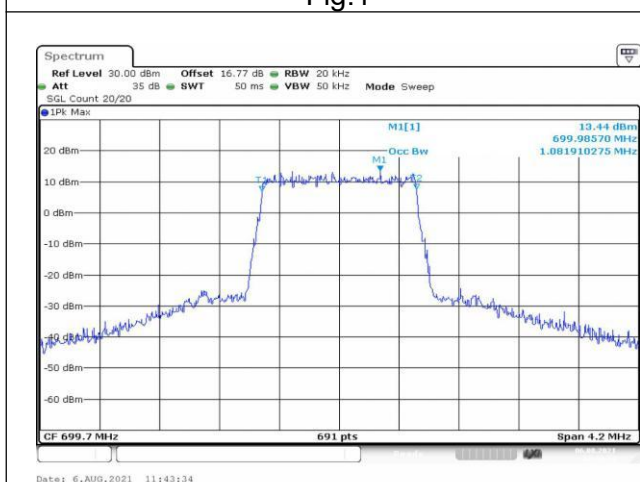
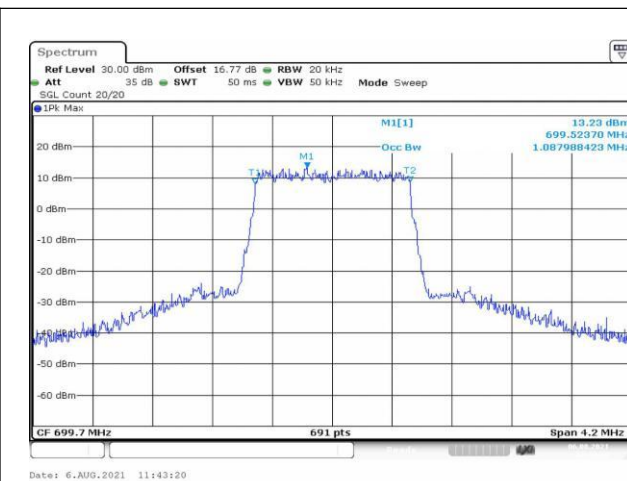
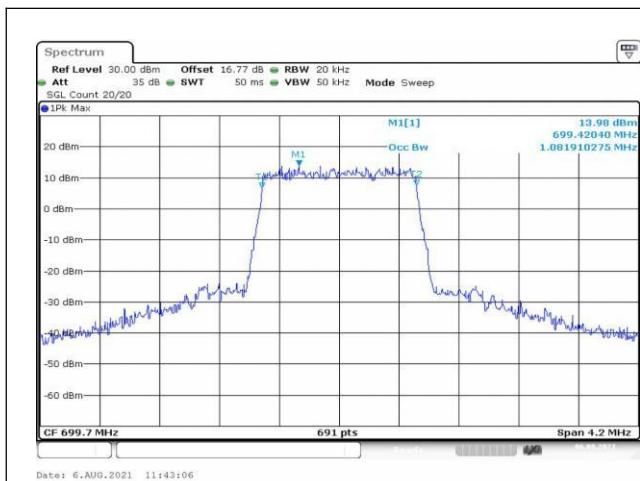
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	701.5	23035	5	1	0	21.85
				1	12	21.82
				1	24	21.86
				12	0	20.85
				12	7	20.70
				12	13	20.83
				25	0	20.89
	707.5	23095		1	0	21.85
				1	12	21.84
				1	24	21.82
				12	0	20.94
				12	7	20.87
				12	13	20.91
				25	0	20.82
	713.5	23155		1	0	21.71
				1	12	21.71
				1	24	21.75
				12	0	20.89
				12	7	20.85
				12	13	20.85
				25	0	20.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	704	23060	10	1	0	23.90	
				1	25	23.73	
				1	49	23.69	
				25	0	22.86	
				25	12	22.86	
				25	25	22.93	
				50	0	22.94	
	707.5	23095		1	0	23.76	
				1	25	23.77	
				1	49	23.72	
				25	0	22.89	
				25	12	22.83	
				25	25	22.83	
				50	0	22.75	
	711	23130		1	0	23.77	
				1	25	23.64	
				1	49	23.61	
				25	0	22.88	
				25	12	22.68	
				25	25	22.74	
				50	0	22.87	
	16QAM	704		23060	1	0	23.65
					1	25	23.41
					1	49	23.54
25					0	21.97	
25					12	21.88	
25					25	21.95	
50					0	21.94	
707.5		23095	1	0	23.01		
			1	25	22.93		
			1	49	22.82		
			25	0	21.91		
			25	12	21.89		
			25	25	21.83		
			50	0	21.88		
711		23130	1	0	22.91		
			1	25	22.72		
			1	49	22.68		
			25	0	21.96		
			25	12	21.88		
			25	25	21.88		
			50	0	21.83		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	704	23060	10	1	0	22.29
				1	25	22.27
				1	49	22.30
				25	0	20.91
				25	12	20.86
				25	25	20.90
				50	0	20.94
	707.5	23095		1	0	21.74
				1	25	21.89
				1	49	21.84
				25	0	20.90
				25	12	20.93
				25	25	20.93
				50	0	20.84
	711	23130		1	0	21.70
				1	25	21.46
				1	49	21.65
				25	0	20.87
				25	12	20.89
				25	25	20.89
				50	0	20.98

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
12	699.7	23017	1.4	6	0	1.082	Fig.1	1.088	Fig.2	1.082	Fig.3
	707.5	23095		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	715.3	23173		6	0	1.076	Fig.7	1.082	Fig.8	1.082	Fig.9
	700.5	23025	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	707.5	23095		15	0	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	714.5	23165		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	701.5	23035	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	707.5	23095		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	713.5	23155		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	704	23060	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	707.5	23095		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	711	23130		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36



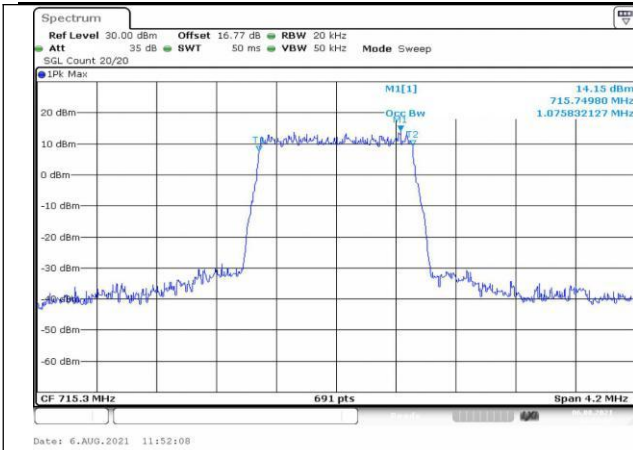


Fig.7

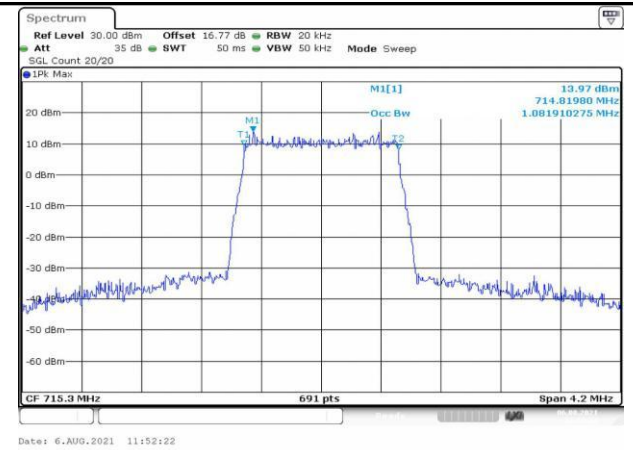


Fig.8

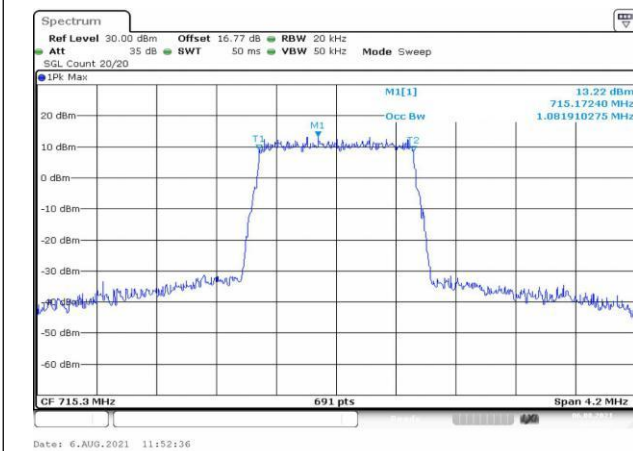


Fig.9

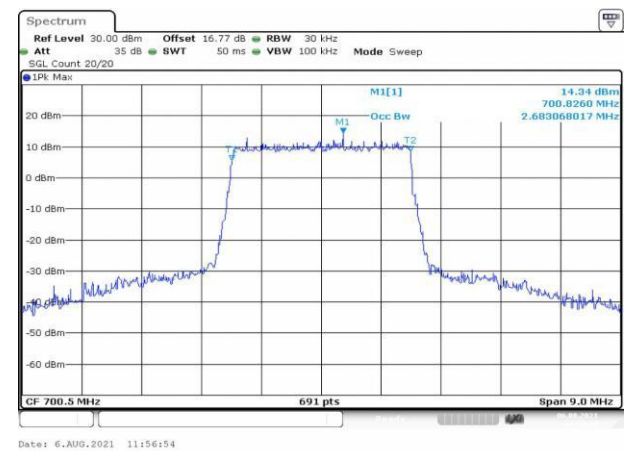


Fig.10

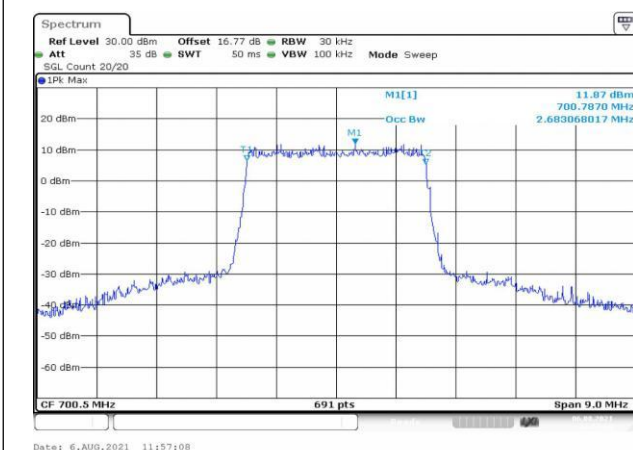


Fig.11

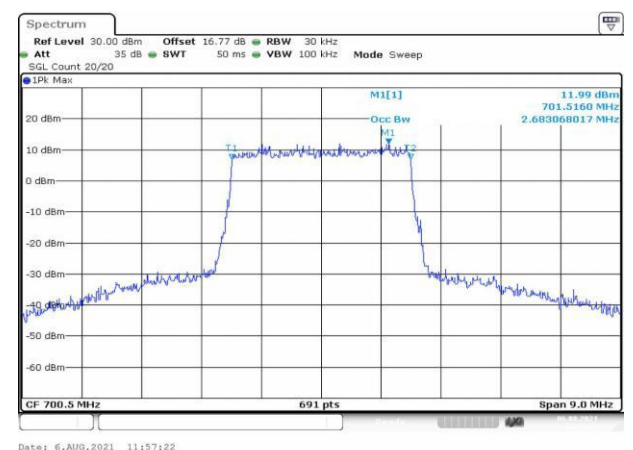


Fig.12

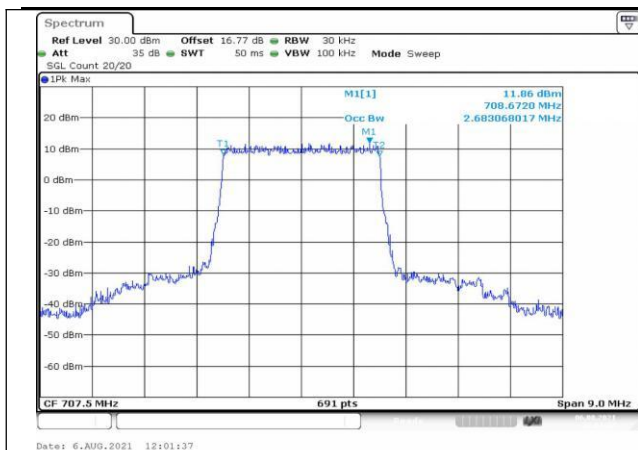


Fig.13

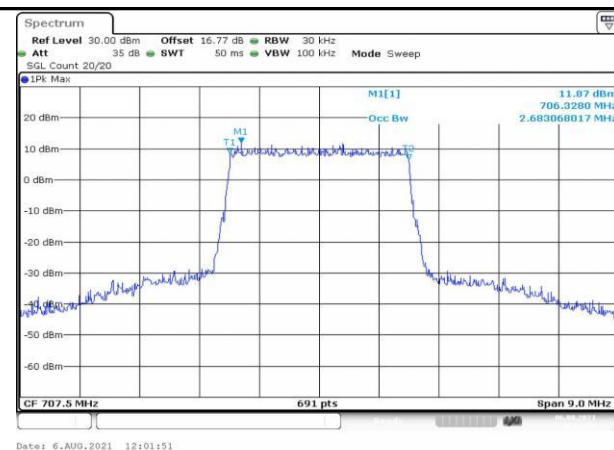


Fig.14

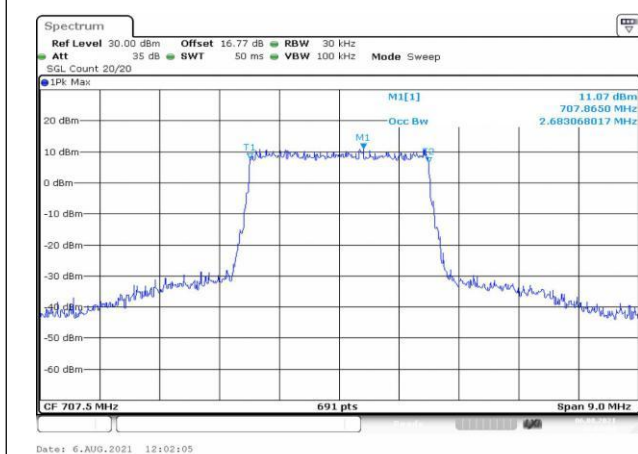


Fig.15

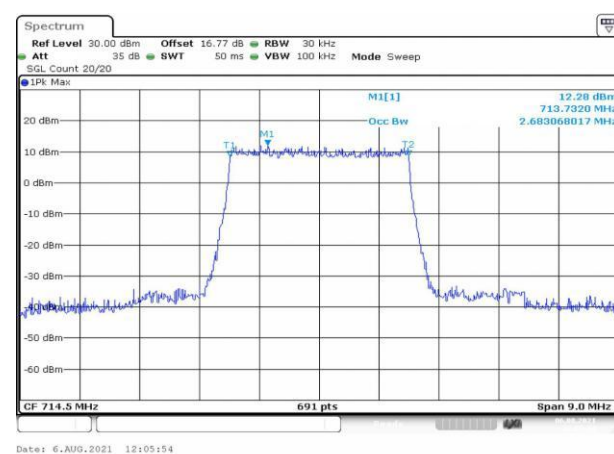


Fig.16

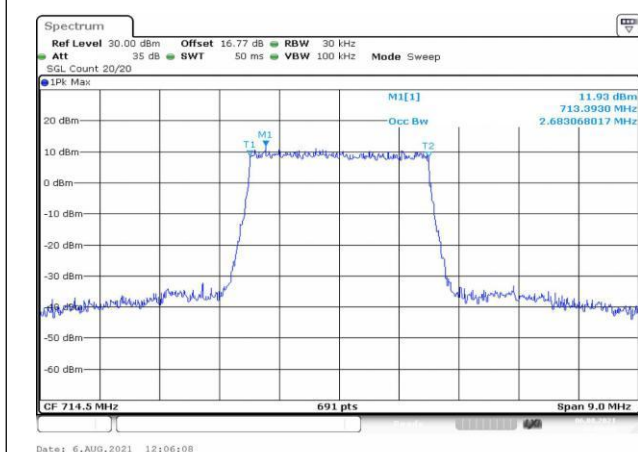


Fig.17

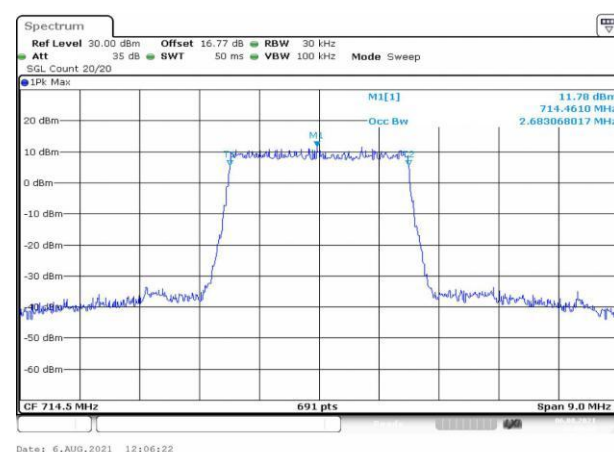
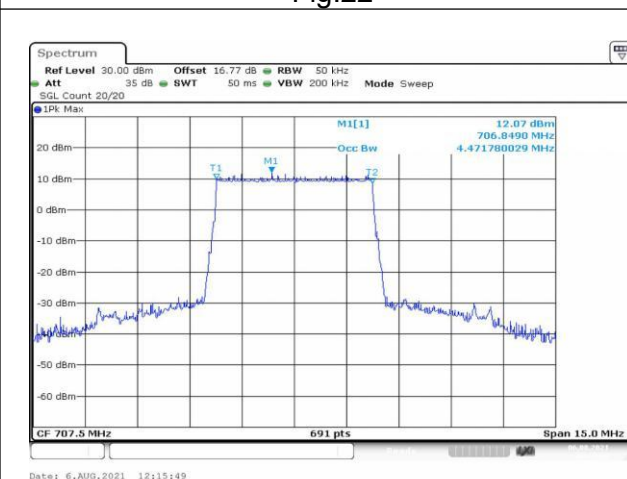
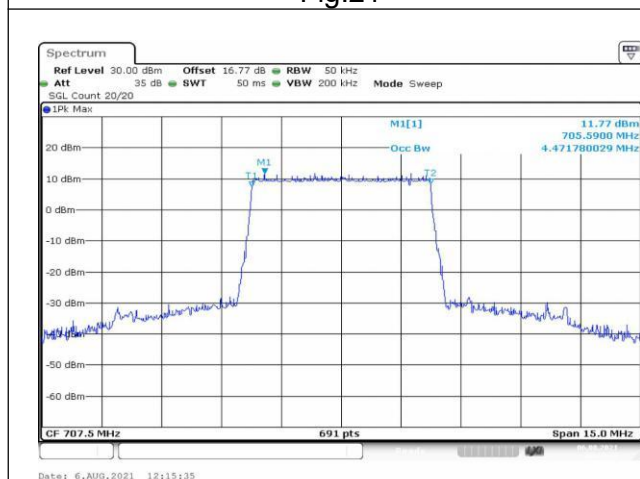
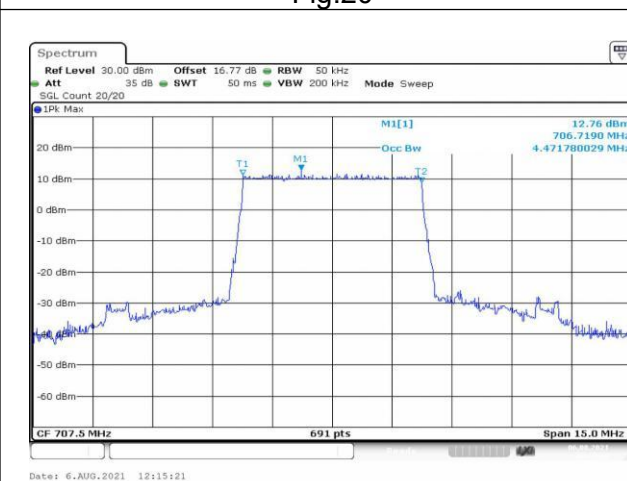
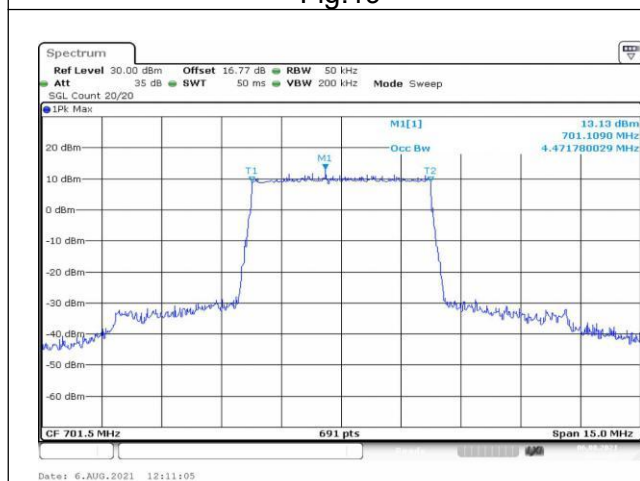
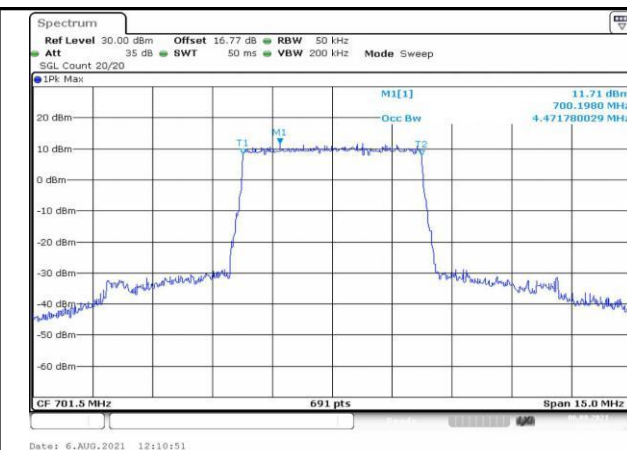
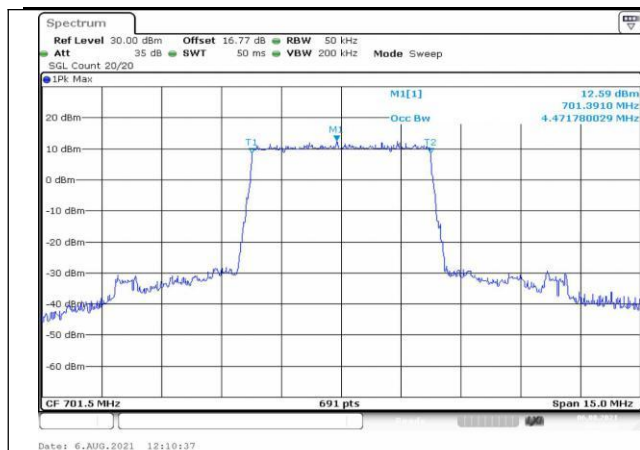
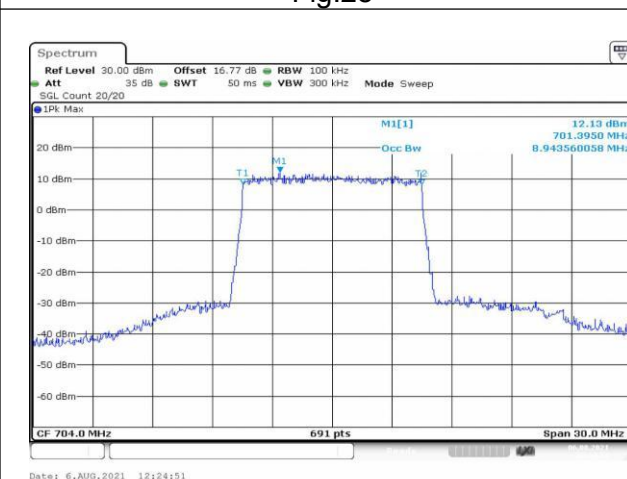
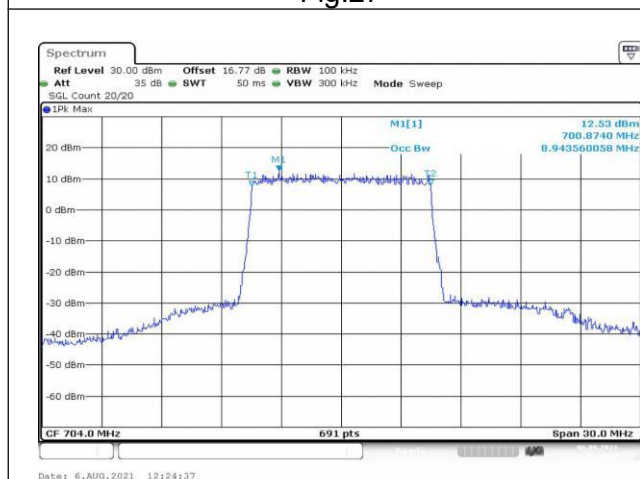
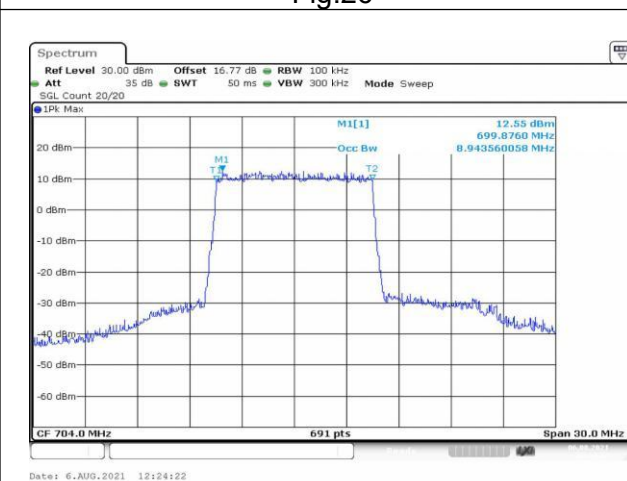
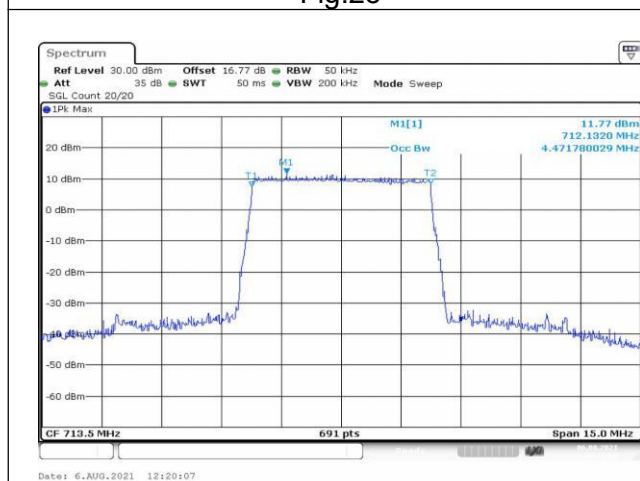
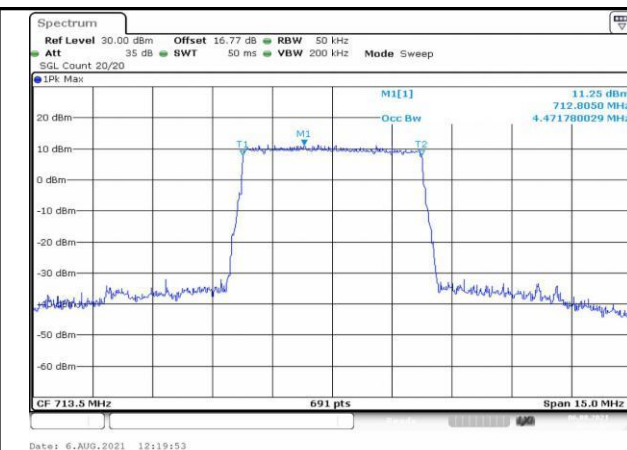
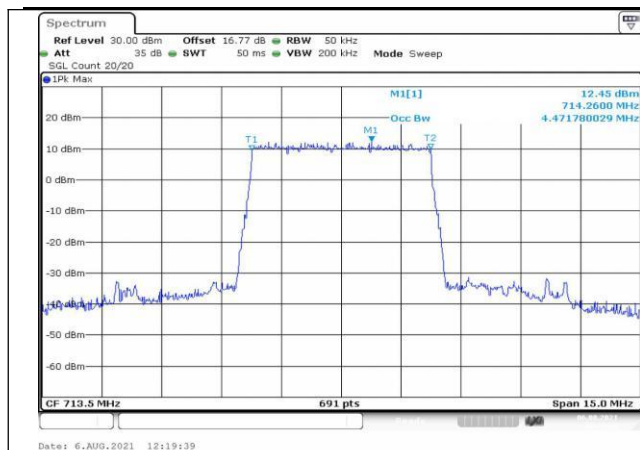
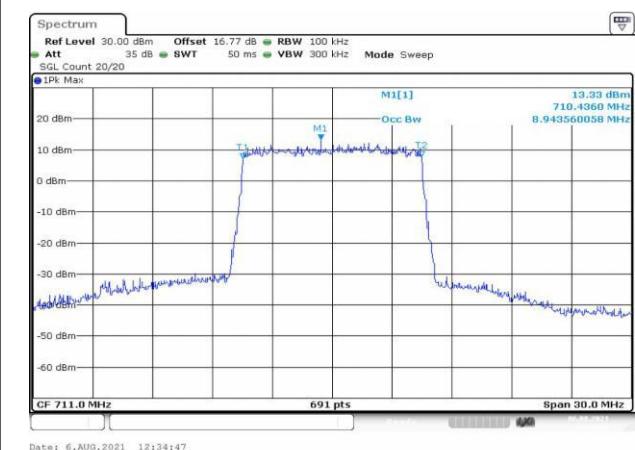
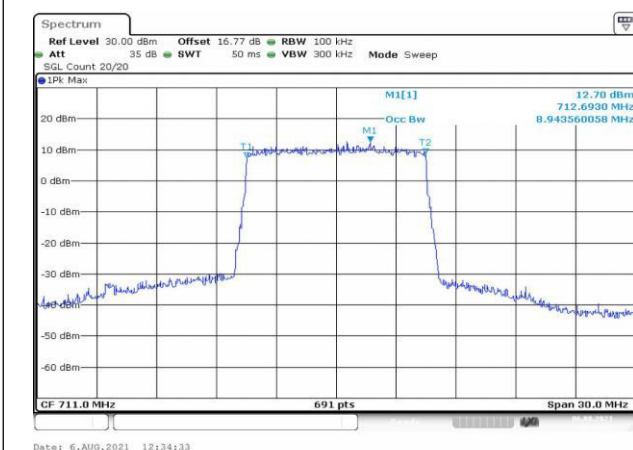
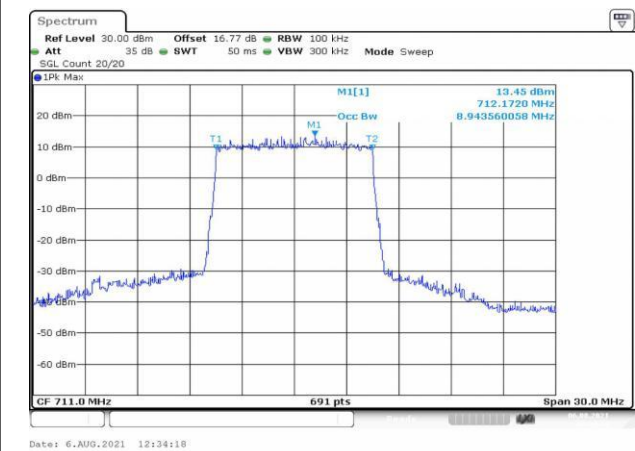
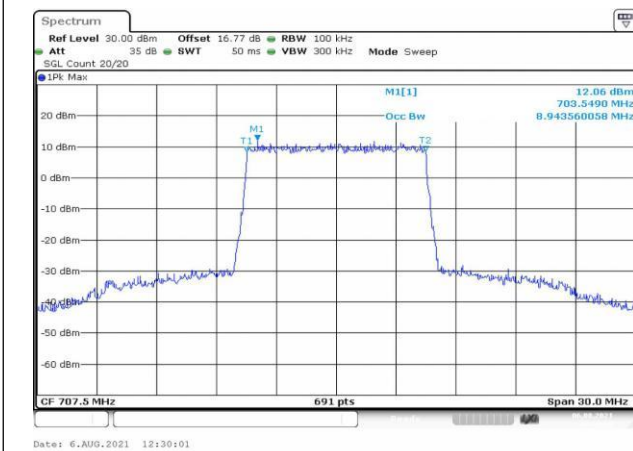
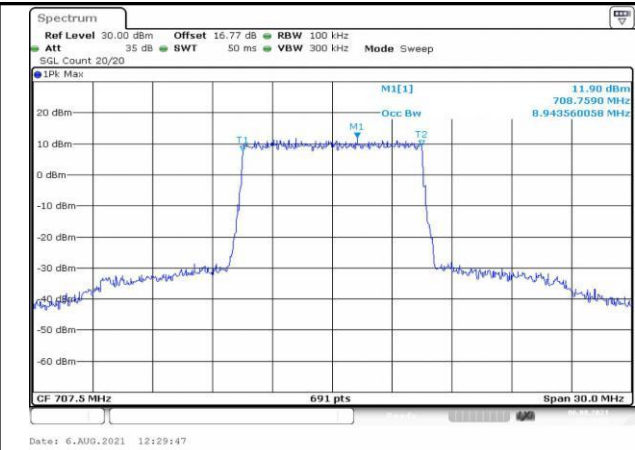
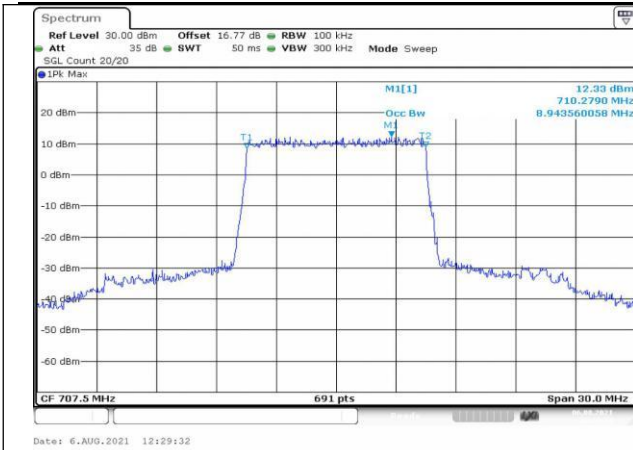


Fig.18







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	
12	699.7	23017	1.4	6	0	1.210	Fig.1	1.216	Fig.2	1.204	Fig.3
	707.5	23095		6	0	1.216	Fig.4	1.210	Fig.5	1.204	Fig.6
	715.3	23173		6	0	1.216	Fig.7	1.210	Fig.8	1.216	Fig.9
	700.5	23025	3	15	0	2.878	Fig.10	2.878	Fig.11	2.931	Fig.12
	707.5	23095		15	0	2.904	Fig.13	2.918	Fig.14	2.944	Fig.15
	714.5	23165		15	0	2.944	Fig.16	2.931	Fig.17	2.918	Fig.18
	701.5	23035	5	25	0	4.884	Fig.19	4.841	Fig.20	4.841	Fig.21
	707.5	23095		25	0	4.863	Fig.22	4.884	Fig.23	4.884	Fig.24
	713.5	23155		25	0	4.841	Fig.25	4.884	Fig.26	4.906	Fig.27
	704	23060	10	50	0	9.638	Fig.28	9.551	Fig.29	9.551	Fig.30
	707.5	23095		50	0	9.595	Fig.31	9.638	Fig.32	9.595	Fig.33
	711	23130		50	0	9.551	Fig.34	9.551	Fig.35	9.595	Fig.36

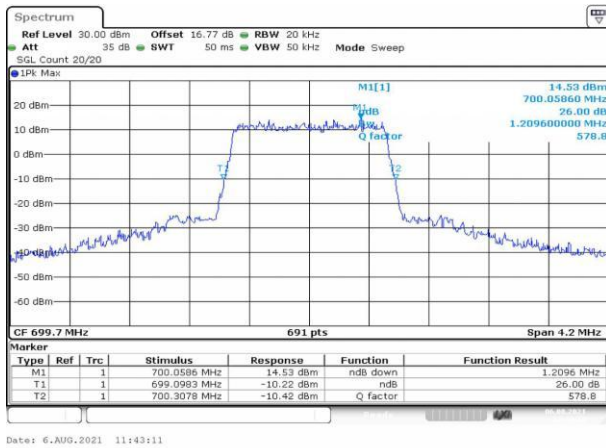


Fig.1

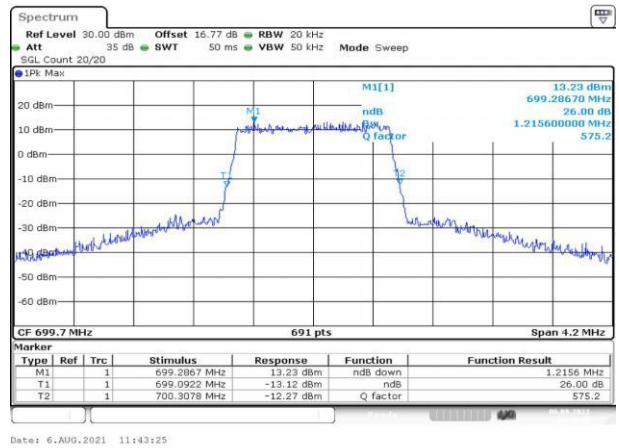


Fig.2

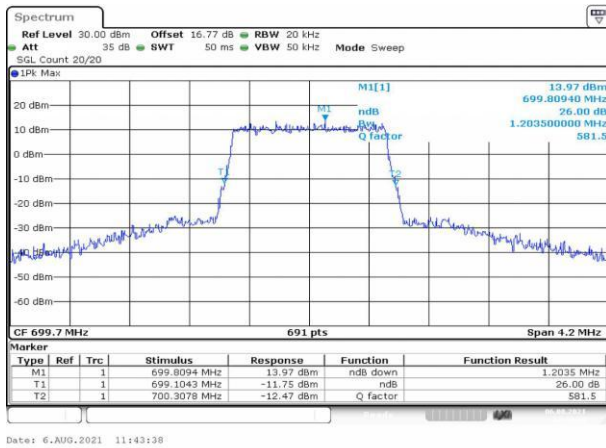


Fig.3

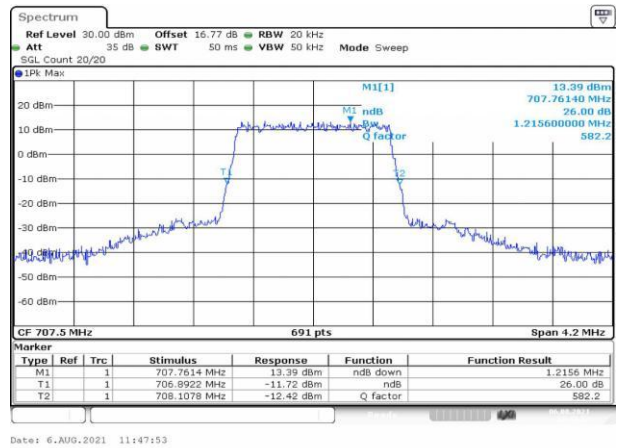


Fig.4

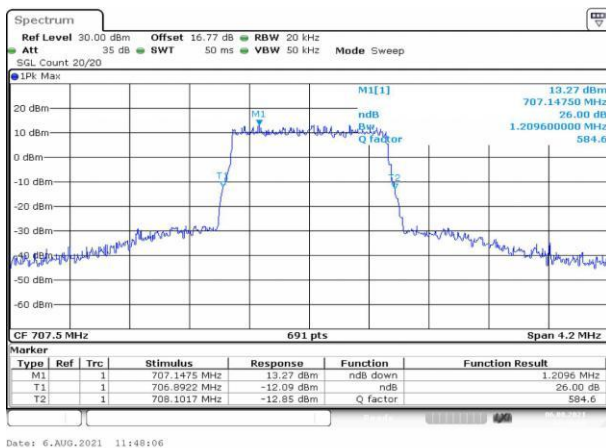


Fig.5

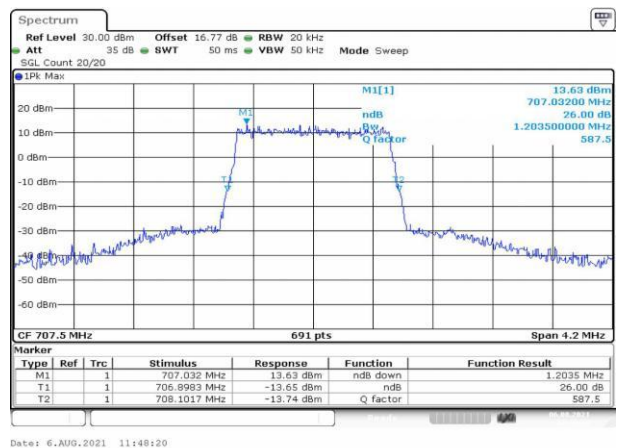


Fig.6

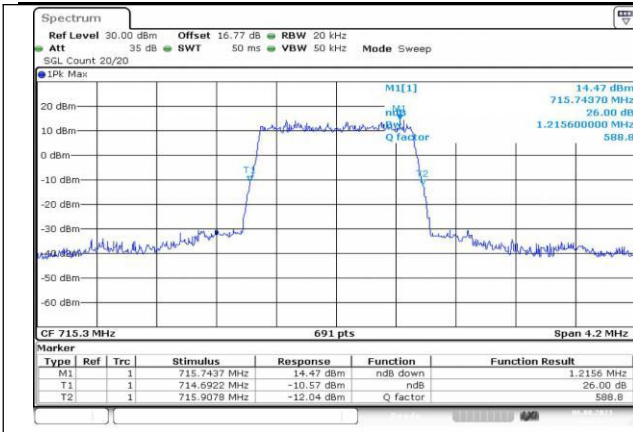


Fig.7

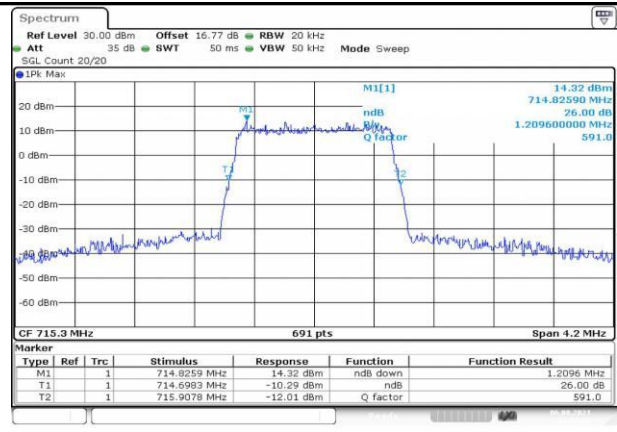


Fig.8

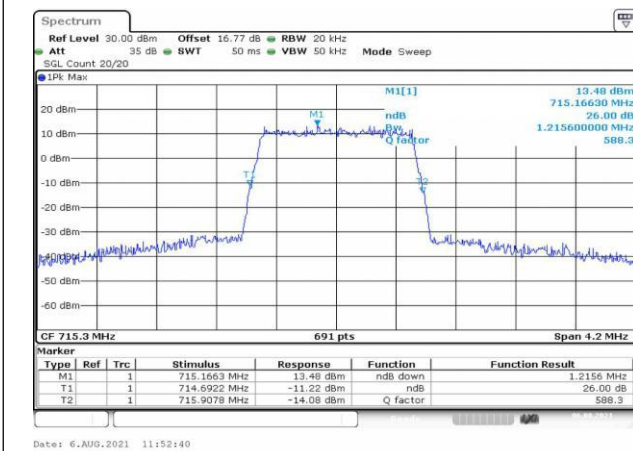


Fig.9

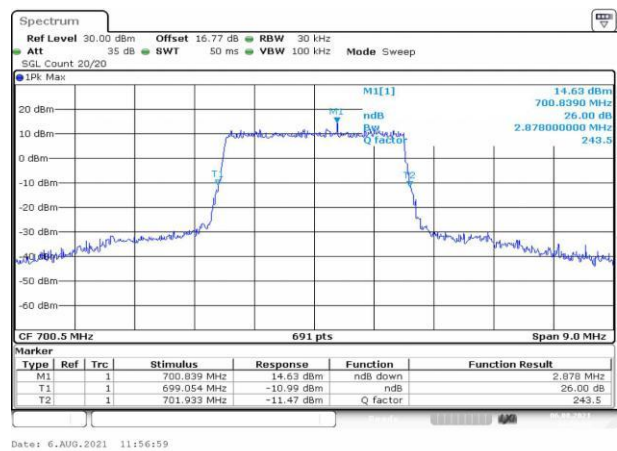


Fig.10

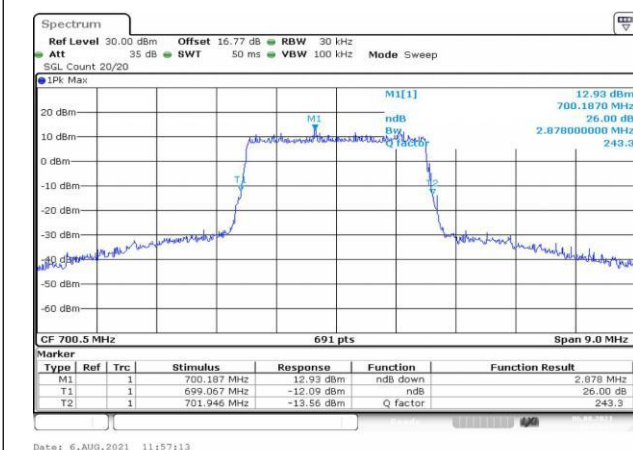


Fig.11

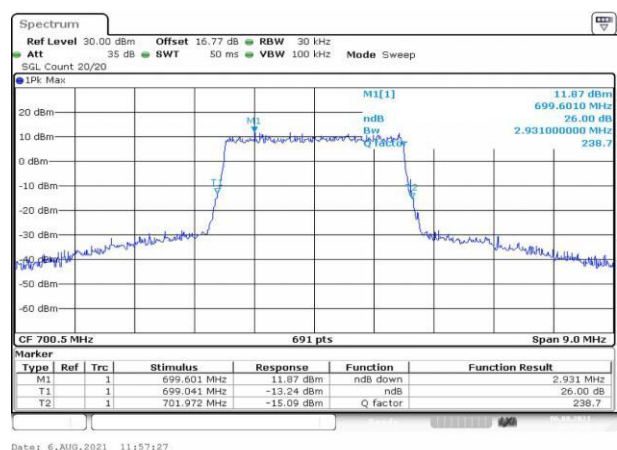


Fig.12

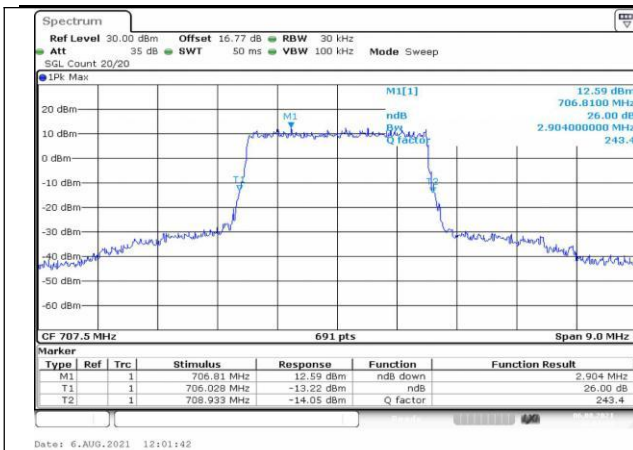


Fig.13

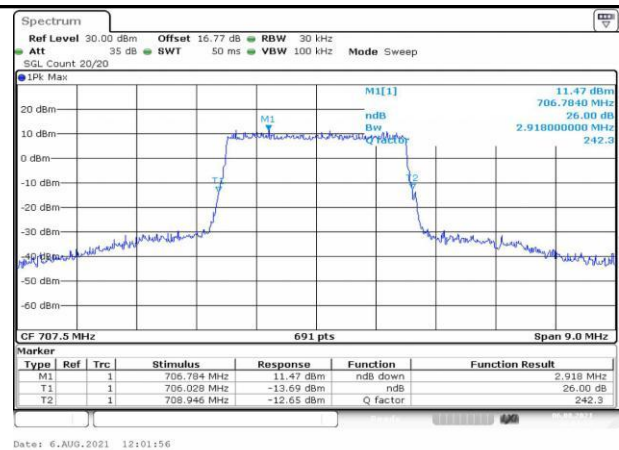


Fig.14

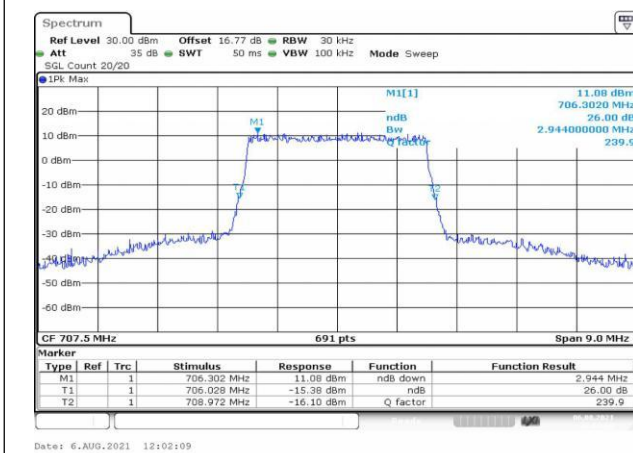


Fig.15

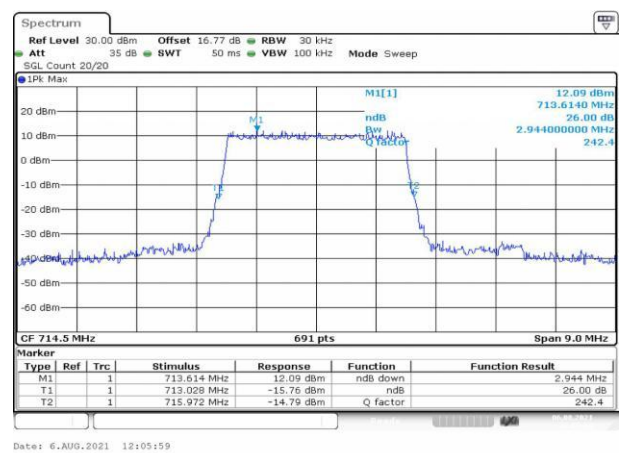


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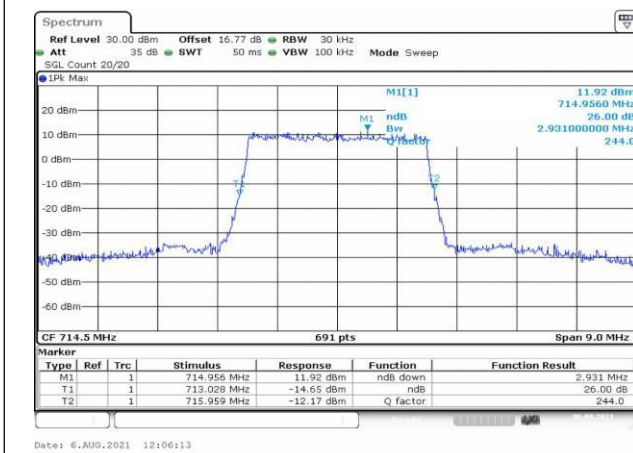


Fig.17

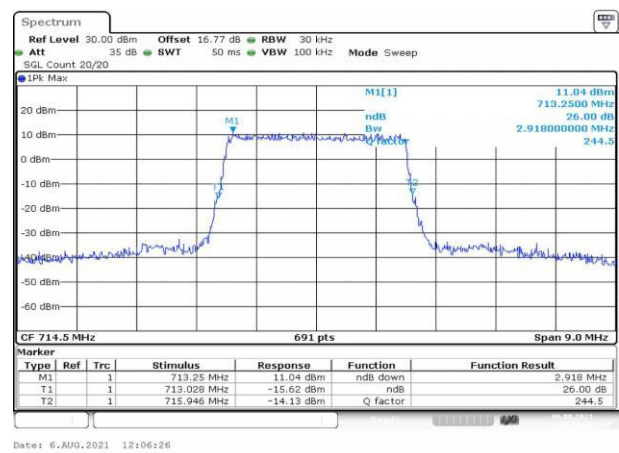


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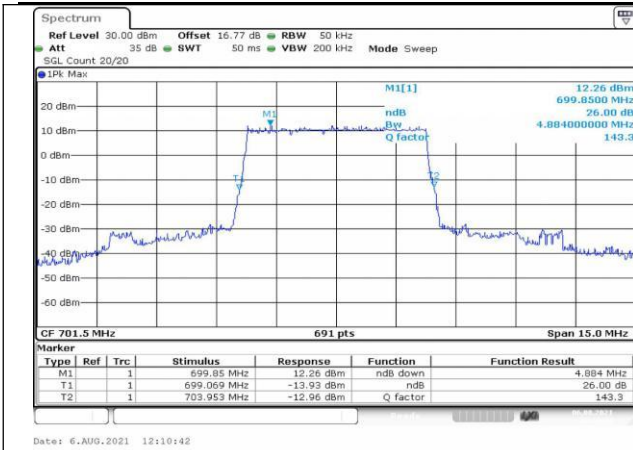


Fig.19

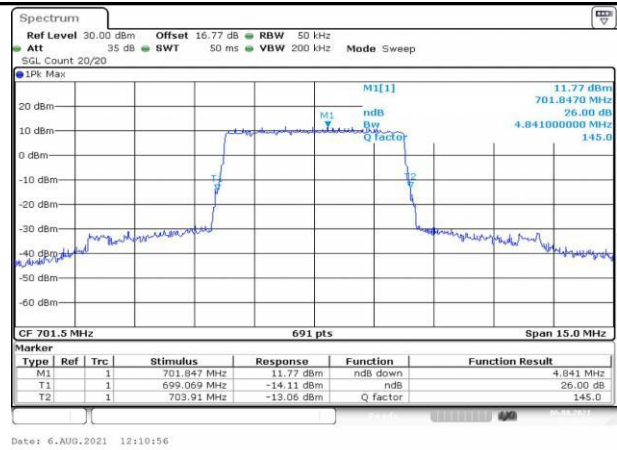


Fig.20

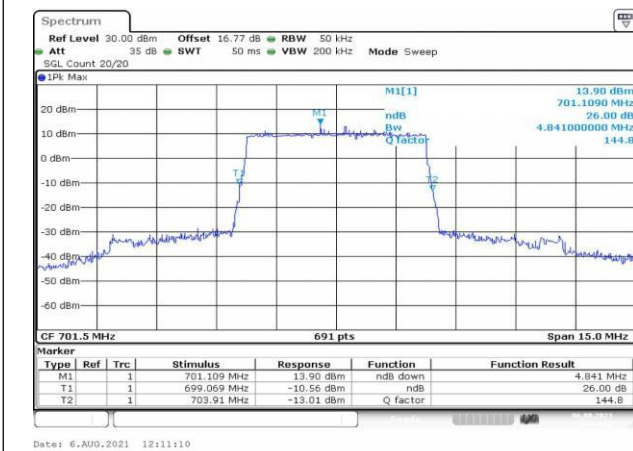


Fig.21

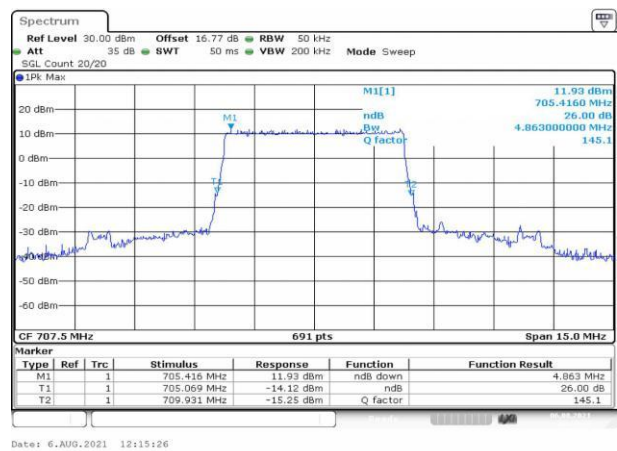


Fig.22

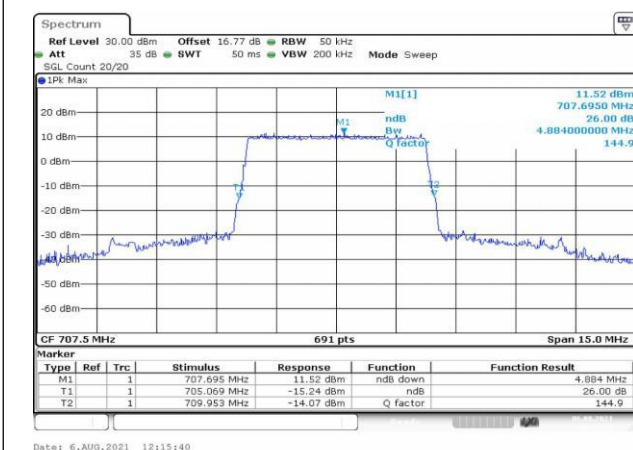


Fig.23

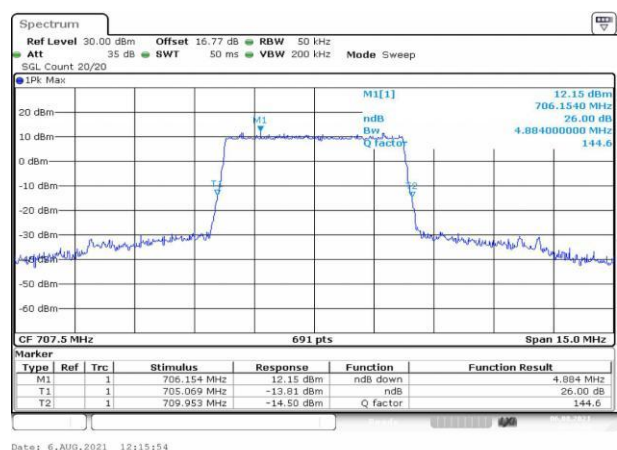


Fig.24

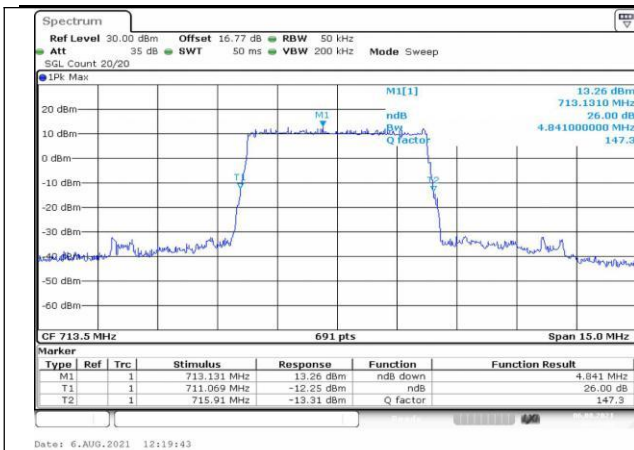


Fig.25

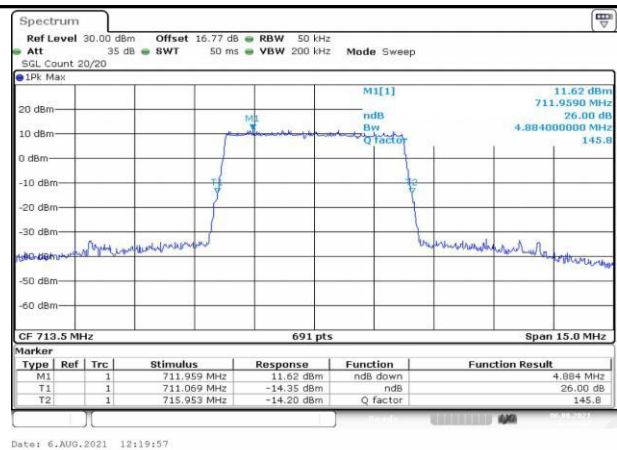


Fig.26

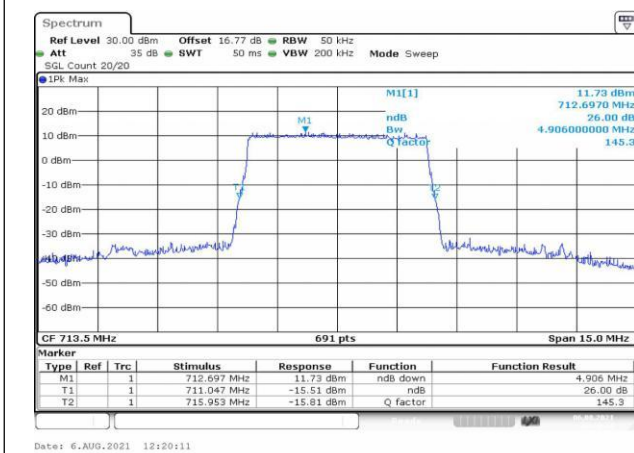


Fig.27

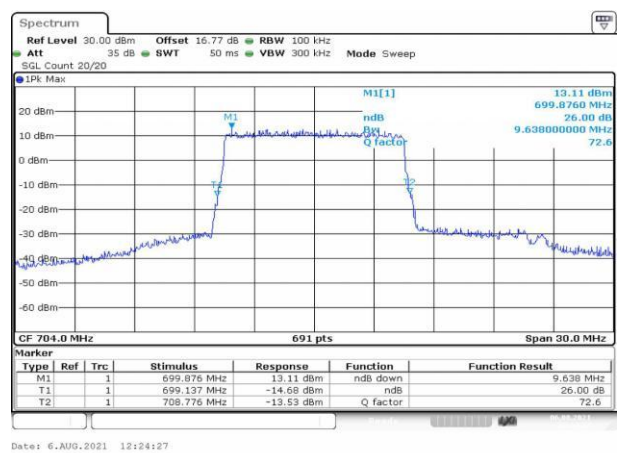


Fig.28

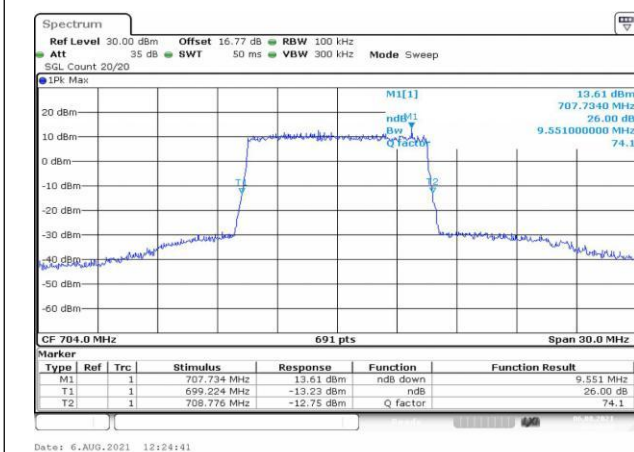


Fig.29

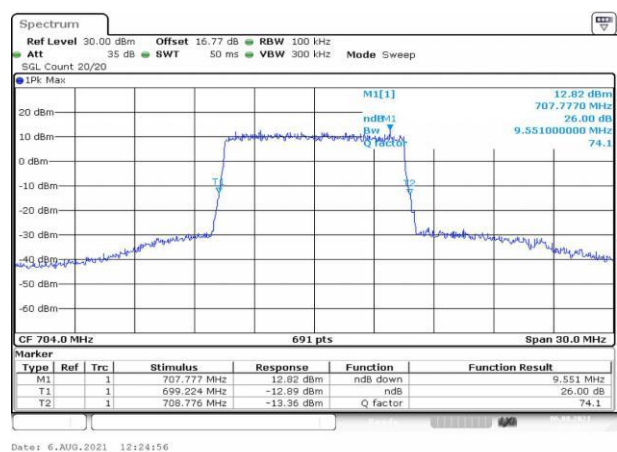


Fig.30

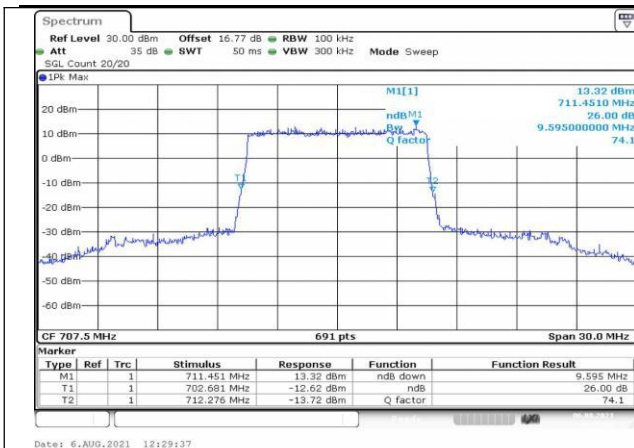


Fig.31

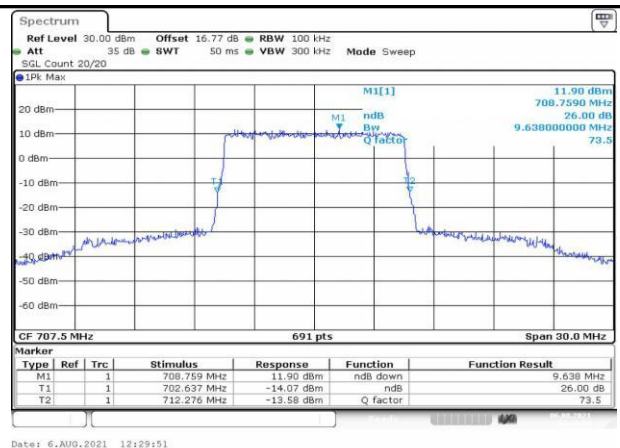


Fig.32

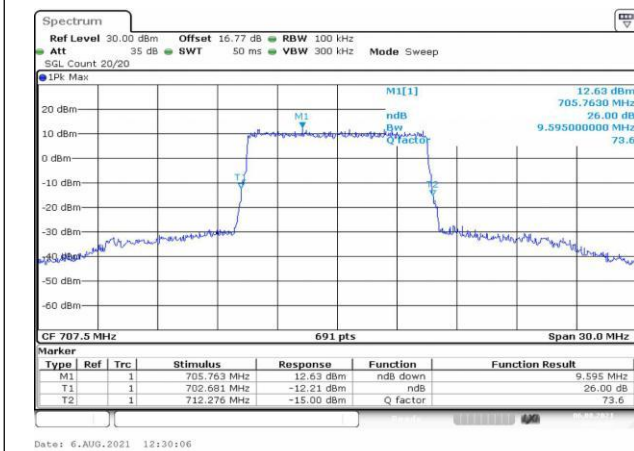


Fig.33



Fig.34

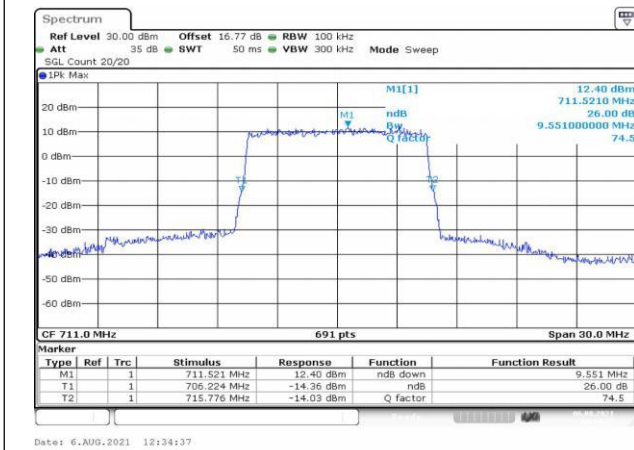


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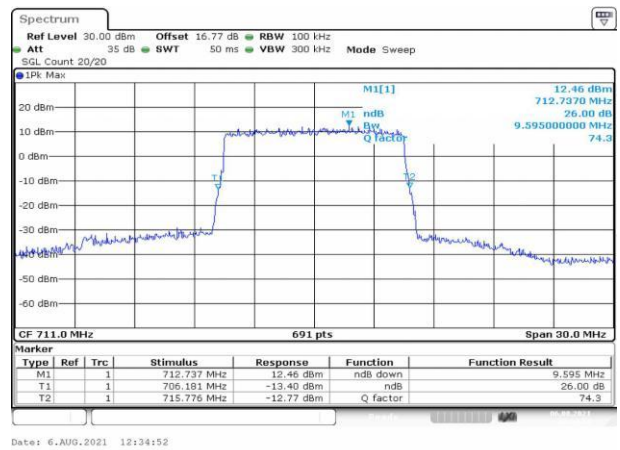


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	699.7	23017	1.4	1	5	Fig.1	Fig.2	Fig.3
	699.7	23017		6	0	Fig.4	Fig.5	Fig.6
	707.5	23095		1	5	Fig.7	Fig.8	Fig.9
	707.5	23095		6	0	Fig.10	Fig.11	Fig.12
	715.3	23173		1	5	Fig.13	Fig.14	Fig.15
	715.3	23173		6	0	Fig.16	Fig.17	Fig.18
	700.5	23025	3	1	14	Fig.19	Fig.20	Fig.21
	700.5	23025		15	0	Fig.22	Fig.23	Fig.24
	707.5	23095		1	14	Fig.25	Fig.26	Fig.27
	707.5	23095		15	0	Fig.28	Fig.29	Fig.30
	714.5	23165		1	14	Fig.31	Fig.32	Fig.33
	714.5	23165		15	0	Fig.34	Fig.35	Fig.36
	701.5	23035	5	1	24	Fig.37	Fig.38	Fig.39
	701.5	23035		25	0	Fig.40	Fig.41	Fig.42
	707.5	23095		1	24	Fig.43	Fig.44	Fig.45
	707.5	23095		25	0	Fig.46	Fig.47	Fig.48
	713.5	23155		1	24	Fig.49	Fig.50	Fig.51
	713.5	23155		25	0	Fig.52	Fig.53	Fig.54
	704	23060	10	1	49	Fig.55	Fig.56	Fig.57
	704	23060		50	0	Fig.58	Fig.59	Fig.60
	707.5	23095		1	49	Fig.61	Fig.62	Fig.63
	707.5	23095		50	0	Fig.64	Fig.65	Fig.66
	711	23130		1	49	Fig.67	Fig.68	Fig.69
	711	23130		50	0	Fig.70	Fig.71	Fig.72

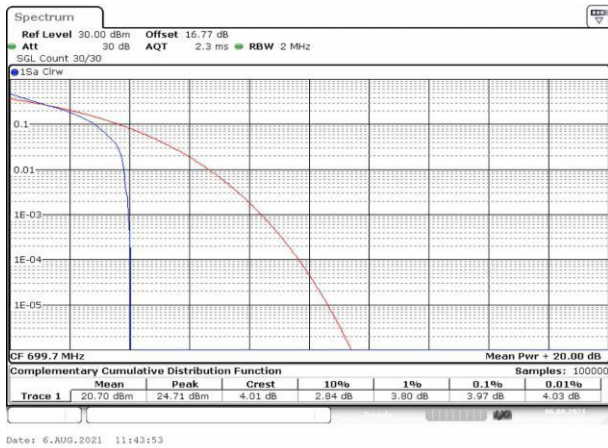


Fig.1

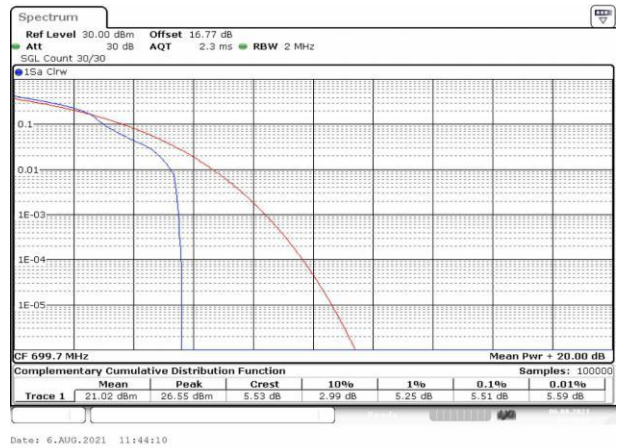


Fig.2

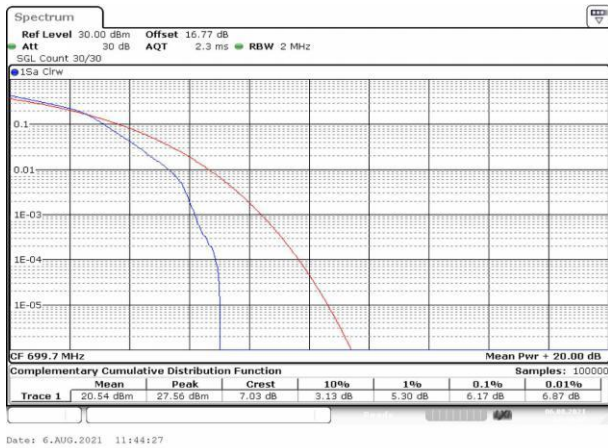


Fig.3

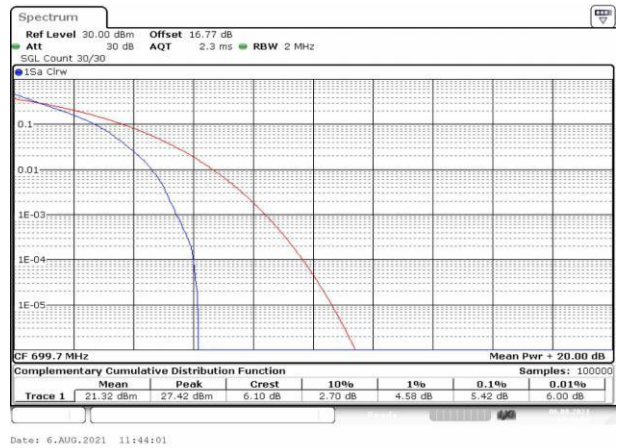


Fig.4

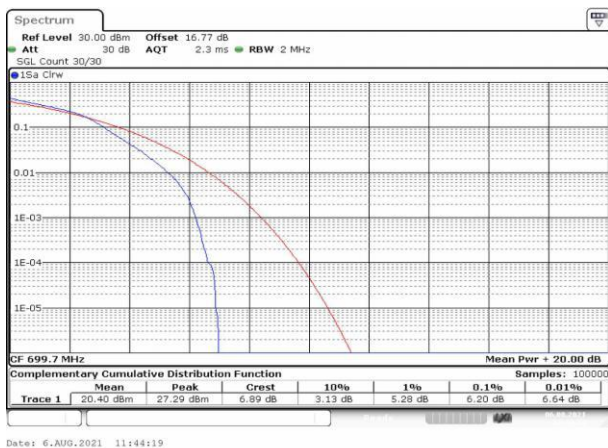


Fig.5

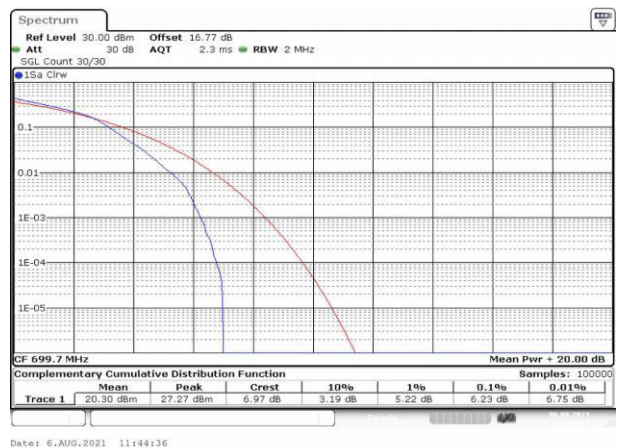


Fig.6



Fig.7

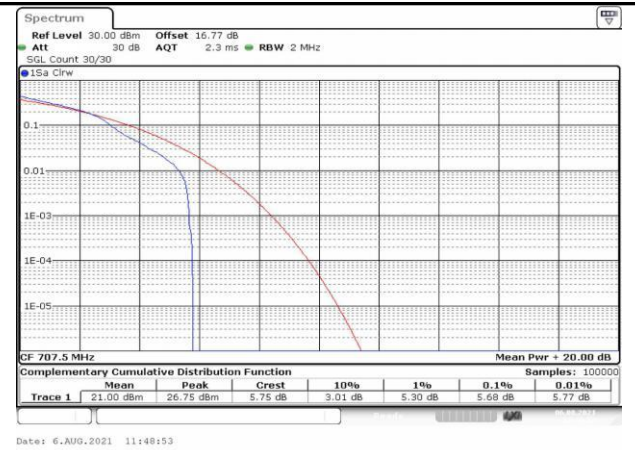


Fig.8

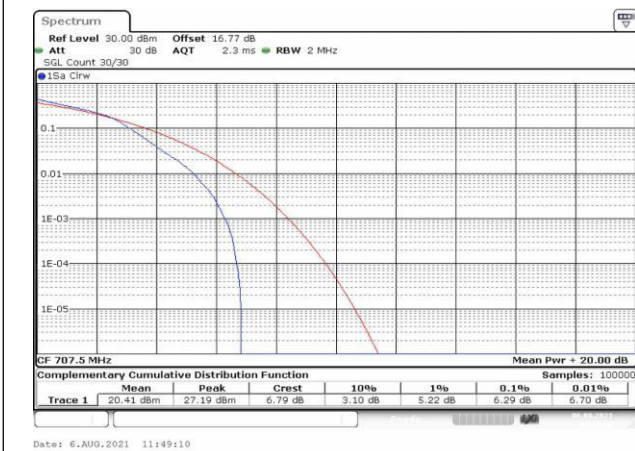


Fig.9

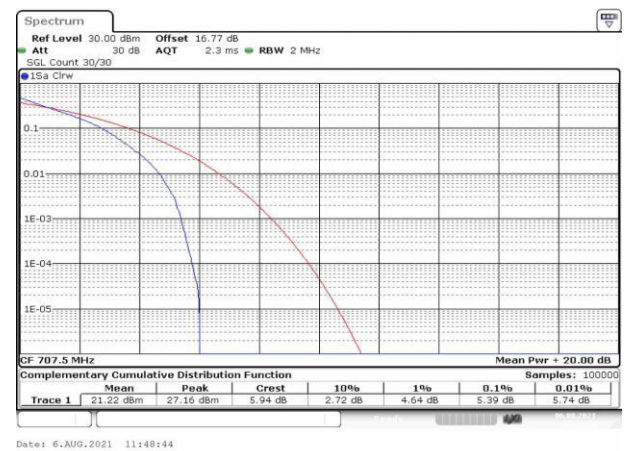


Fig.10

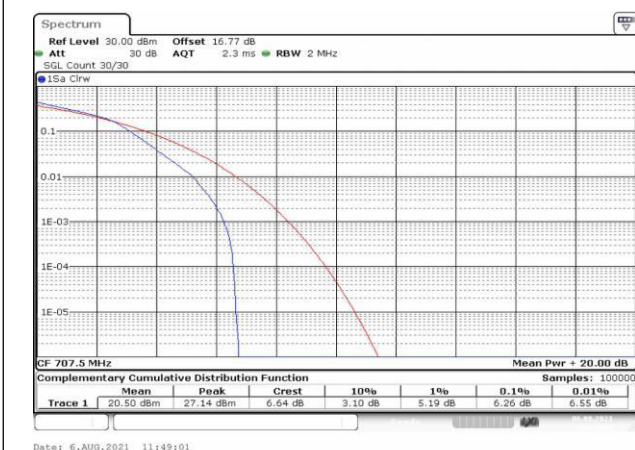


Fig.11

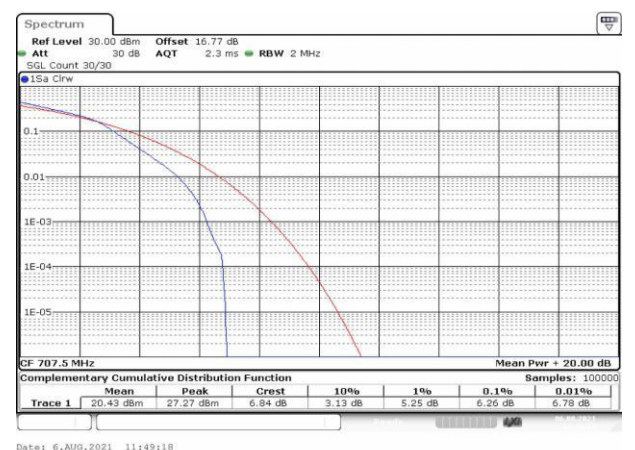


Fig.12

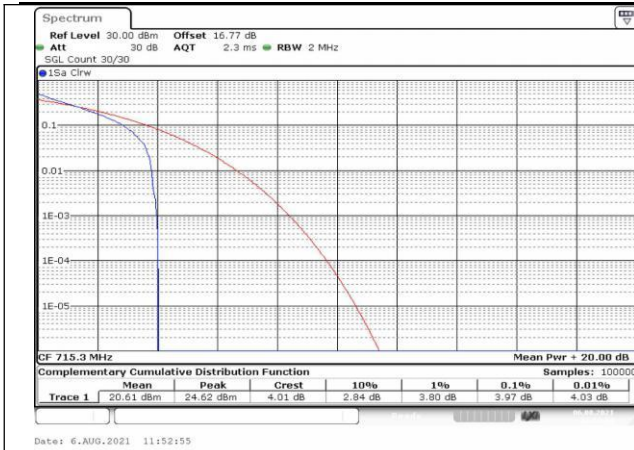


Fig.13

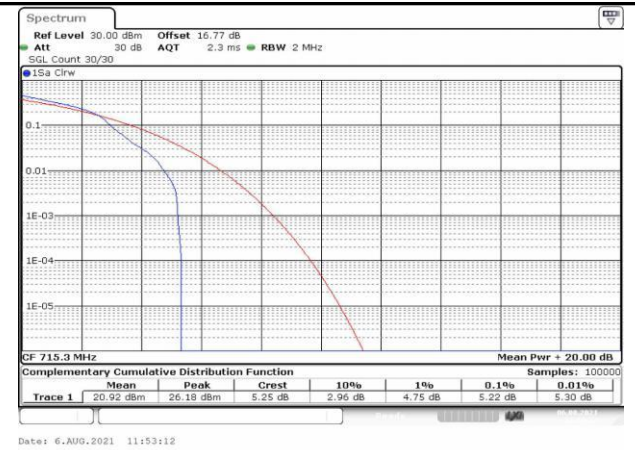


Fig.14

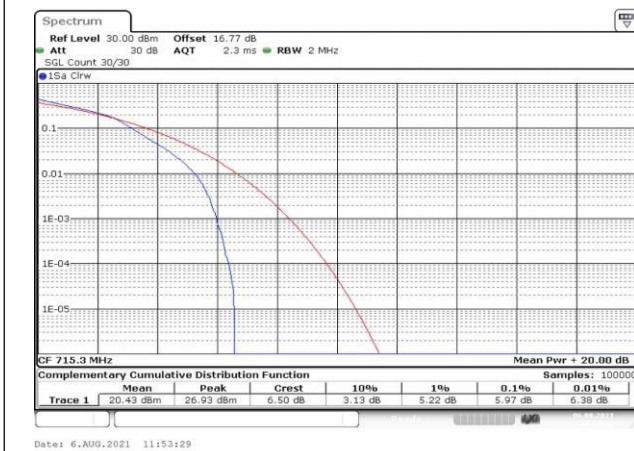


Fig.15

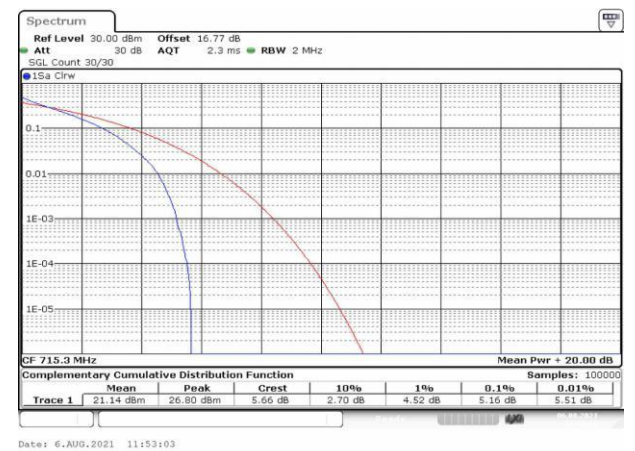


Fig.16

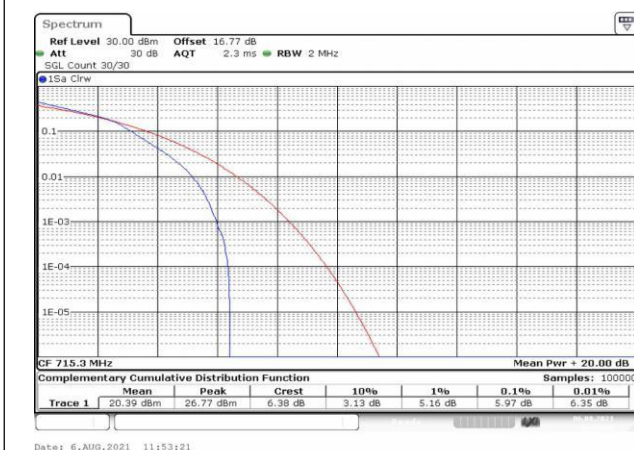


Fig.17

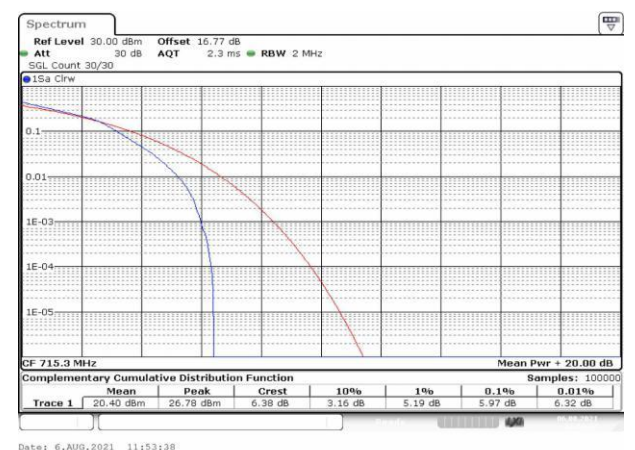


Fig.18