

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	824.7	20407	1.4	1	0	24.71	
				1	3	24.61	
				1	5	24.63	
				3	0	24.73	
				3	1	24.74	
				3	3	24.71	
	6	0		23.55			
	836.5	20525		1	0	24.49	
				1	3	24.55	
				1	5	24.54	
				3	0	24.69	
				3	1	24.64	
				3	3	24.64	
	6	0		23.61			
	848.3	20643		1	0	24.47	
				1	3	24.44	
				1	5	24.42	
				3	0	24.58	
				3	1	24.53	
				3	3	24.52	
	16QAM	824.7		20407	6	0	23.46
					1	0	23.16
					1	3	23.18
					1	5	23.41
3			0		23.82		
3			1		23.82		
3		3	23.81				
6		0	22.92				
836.5		20525	1	0	23.72		
			1	3	23.88		
			1	5	23.88		
			3	0	23.73		
			3	1	23.65		
			3	3	23.58		
6		0	22.65				
848.3		20643	1	0	24.07		
			1	3	24.01		
			1	5	24.13		
			3	0	23.45		
			3	1	23.41		
			3	3	23.31		
6		0	22.79				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	22.92
				1	3	22.92
				1	5	22.91
				3	0	22.90
				3	1	22.90
				3	3	22.89
				6	0	22.89
	836.5	20525		1	0	22.65
				1	3	22.65
				1	5	22.66
				3	0	22.66
				3	1	22.66
				3	3	22.80
				6	0	22.80
	848.3	20643		1	0	22.75
				1	3	22.71
				1	5	22.71
				3	0	22.71
				3	1	22.71
				3	3	22.71
				6	0	22.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	24.51
				1	8	24.41
				1	14	24.43
				8	0	23.61
				8	4	23.60
				8	7	23.59
				15	0	23.69
	836.5	20525		1	0	24.44
				1	8	24.58
				1	14	24.57
				8	0	23.61
				8	4	23.49
				8	7	23.49
				15	0	23.57
	847.5	20635		1	0	24.63
				1	8	24.72
				1	14	24.55
				8	0	23.54
				8	4	23.53
				8	7	23.53
				15	0	23.39
16QAM	825.5	20415	1	0	24.07	
			1	8	24.05	
			1	14	24.04	
			8	0	23.05	
			8	4	23.06	
			8	7	23.06	
			15	0	22.81	
	836.5	20525	1	0	24.38	
			1	8	24.48	
			1	14	24.34	
			8	0	22.75	
			8	4	22.75	
			8	7	22.75	
			15	0	22.73	
	847.5	20635	1	0	23.55	
			1	8	23.44	
			1	14	23.41	
			8	0	22.75	
8	4	22.73				
8	7	22.73				
15	0	22.65				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	22.81
				1	8	22.81
				1	14	22.81
				8	0	22.81
				8	4	22.81
				8	7	22.81
				15	0	22.81
	836.5	20525		1	0	22.77
				1	8	22.68
				1	14	22.68
				8	0	22.68
				8	4	22.68
				8	7	22.67
				15	0	22.74
	847.5	20635		1	0	22.65
				1	8	22.65
				1	14	22.65
				8	0	22.65
				8	4	22.65
				8	7	22.66
				15	0	22.65

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	826.5	20425	5	1	0	24.68	
				1	12	24.45	
				1	24	24.43	
				12	0	23.62	
				12	7	23.45	
				12	13	23.60	
				25	0	23.48	
	836.5	20525		1	0	24.74	
				1	12	24.55	
				1	24	24.55	
				12	0	23.50	
				12	7	23.52	
				12	13	23.52	
				25	0	23.57	
	846.5	20625		1	0	24.58	
				1	12	24.47	
				1	24	24.46	
				12	0	23.48	
				12	7	23.45	
				12	13	23.45	
				25	0	23.66	
	16QAM	826.5		20425	1	0	22.94
					1	12	22.80
					1	24	22.79
12					0	22.86	
12					7	22.70	
12					13	22.70	
25					0	22.73	
836.5		20525	1	0	23.62		
			1	12	23.63		
			1	24	23.75		
			12	0	22.73		
			12	7	22.72		
			12	13	22.62		
			25	0	22.71		
846.5		20625	1	0	23.61		
			1	12	23.64		
			1	24	23.64		
			12	0	22.58		
			12	7	22.62		
			12	13	22.63		
			25	0	22.70		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	22.84
				1	12	22.73
				1	24	22.84
				12	0	22.84
				12	7	22.84
				12	13	22.84
				25	0	22.84
	836.5	20525		1	0	22.61
				1	12	22.61
				1	24	22.61
				12	0	22.72
				12	7	22.72
				12	13	22.72
				25	0	22.72
	846.5	20625		1	0	22.50
				1	12	22.50
				1	24	22.50
				12	0	22.50
				12	7	22.64
				12	13	22.50
				25	0	22.64

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	829	20450	10	1	0	24.48	
				1	25	24.55	
				1	49	24.44	
				25	0	23.59	
				25	12	23.45	
				25	25	23.44	
				50	0	23.57	
	836.5	20525		1	0	24.58	
				1	25	24.58	
				1	49	24.58	
				25	0	23.58	
				25	12	23.51	
				25	25	23.52	
				50	0	23.56	
	844	20600		1	0	24.58	
				1	25	24.52	
				1	49	24.51	
				25	0	23.48	
				25	12	23.64	
				25	25	23.64	
				50	0	23.41	
	16QAM	829		20450	1	0	23.88
					1	25	23.84
					1	49	23.88
25					0	22.68	
25					12	22.70	
25					25	22.70	
50					0	22.71	
836.5		20525		1	0	24.37	
				1	25	24.30	
			1	49	24.31		
			25	0	22.73		
			25	12	22.67		
			25	25	22.63		
			50	0	22.75		
844		20600	1	0	23.47		
			1	25	23.51		
			1	49	23.51		
			25	0	22.84		
			25	12	22.83		
			25	25	22.83		
			50	0	22.65		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	22.71
				1	25	22.70
				1	49	22.70
				25	0	22.70
				25	12	22.71
				25	25	22.70
				50	0	22.71
	836.5	20525		1	0	22.70
				1	25	22.70
				1	49	22.70
				25	0	22.85
				25	12	22.68
				25	25	22.69
				50	0	22.69
	844	20600		1	0	22.65
				1	25	22.65
				1	49	22.51
				25	0	22.51
				25	12	22.51
				25	25	22.66
				50	0	22.65

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.088	Fig.1	1.082	Fig.2	1.088	Fig.3
	836.5	20525		6	0	1.082	Fig.4	1.094	Fig.5	1.094	Fig.6
	848.3	20643		6	0	1.088	Fig.7	1.088	Fig.8	1.082	Fig.9
	825.5	20415	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	836.5	20525		15	0	2.683	Fig.13	2.696	Fig.14	2.696	Fig.15
	847.5	20635		15	0	2.696	Fig.16	2.683	Fig.17	2.683	Fig.18
	826.5	20425	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	836.5	20525		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	846.5	20625		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	829	20450	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	836.5	20525		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	844	20600		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36

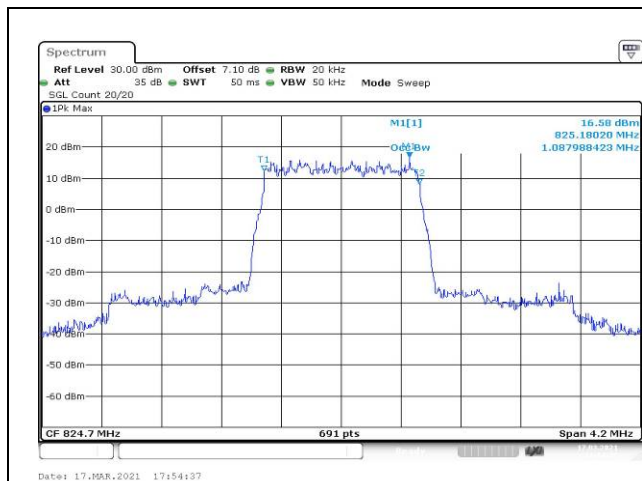


Fig.1

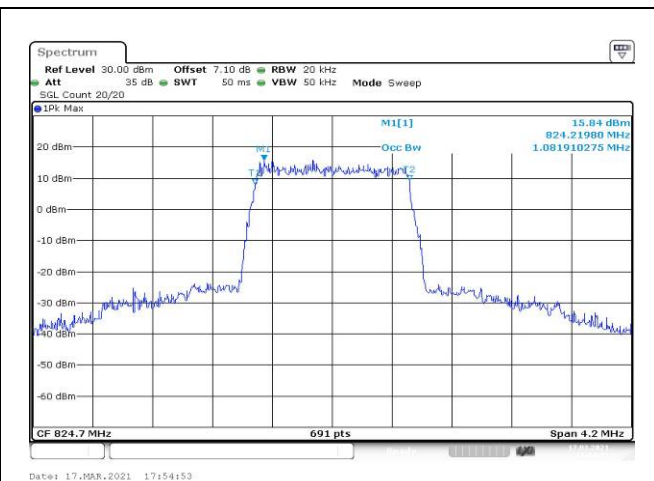


Fig.2

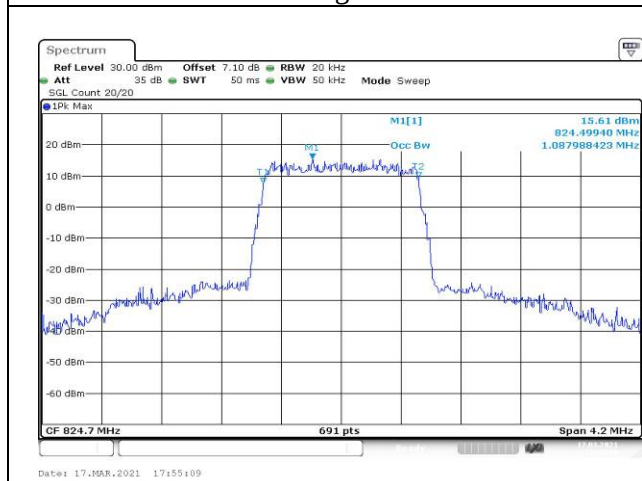


Fig.3

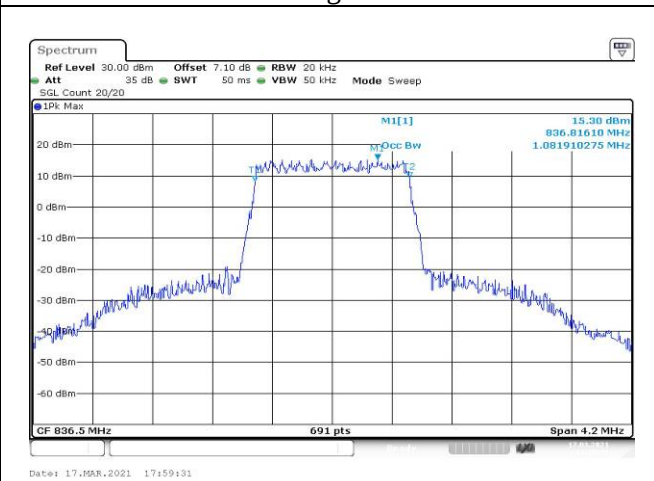


Fig.4

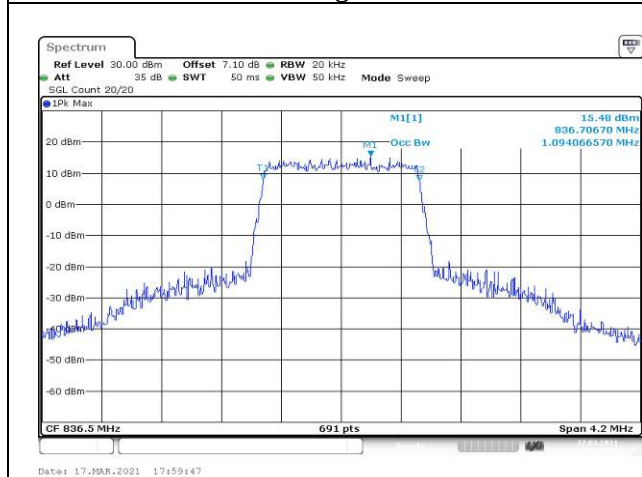


Fig.5

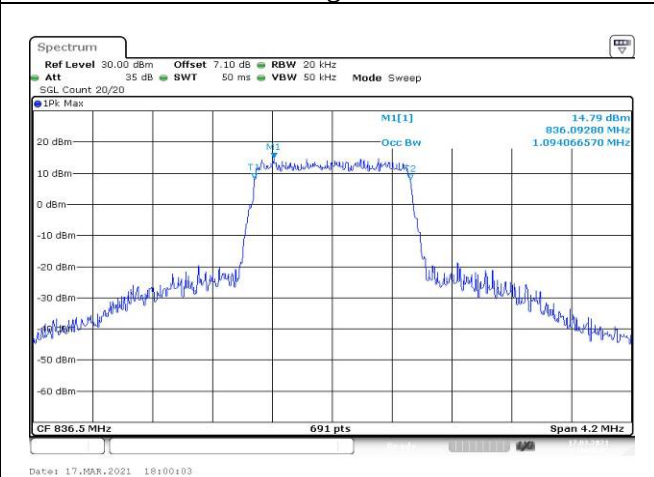


Fig.6

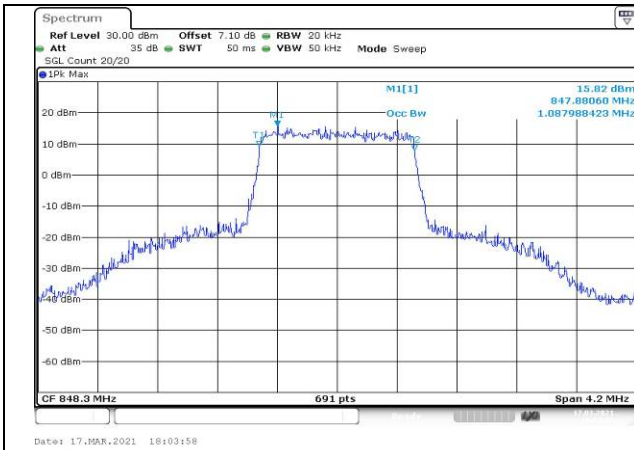


Fig.7

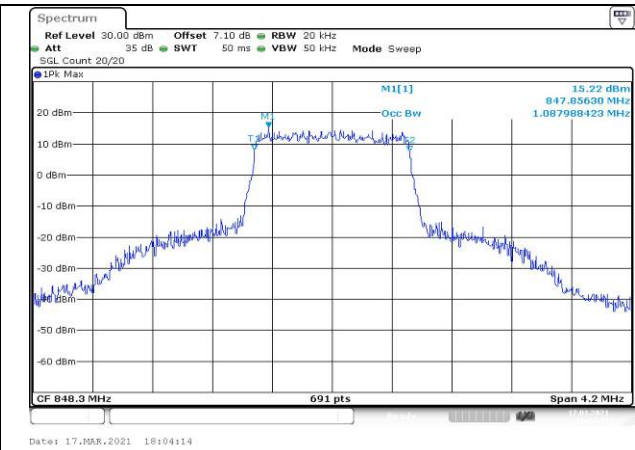


Fig.8

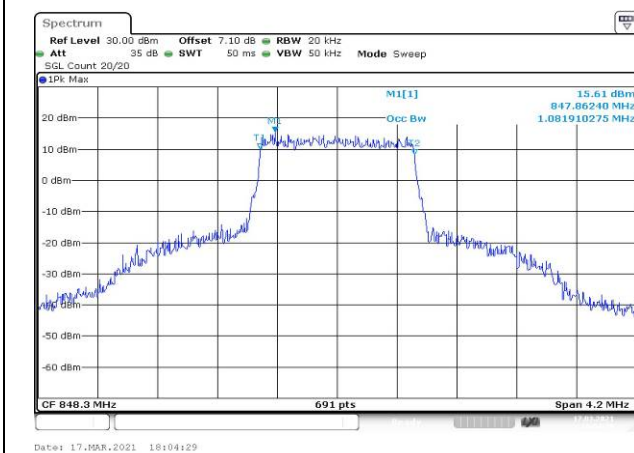


Fig.9

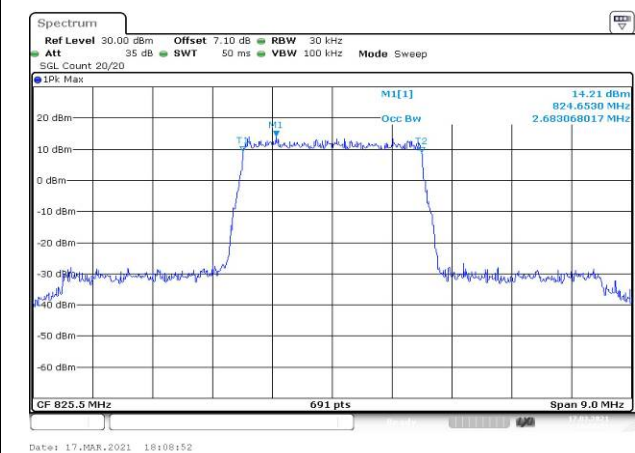


Fig.10

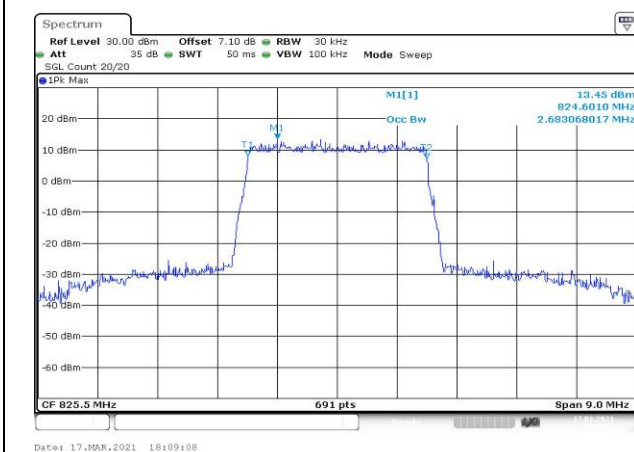


Fig.11

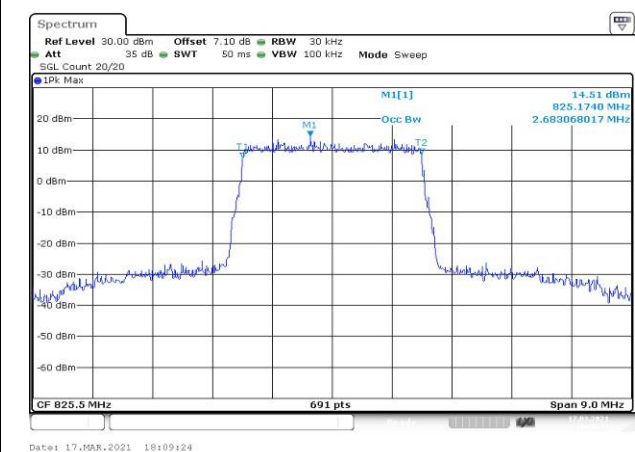
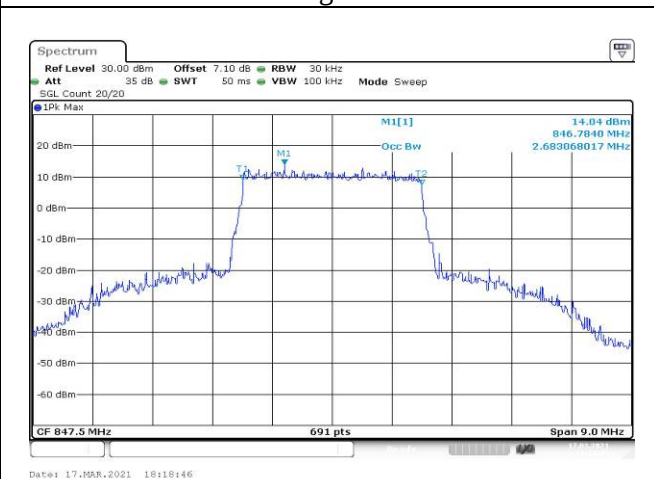
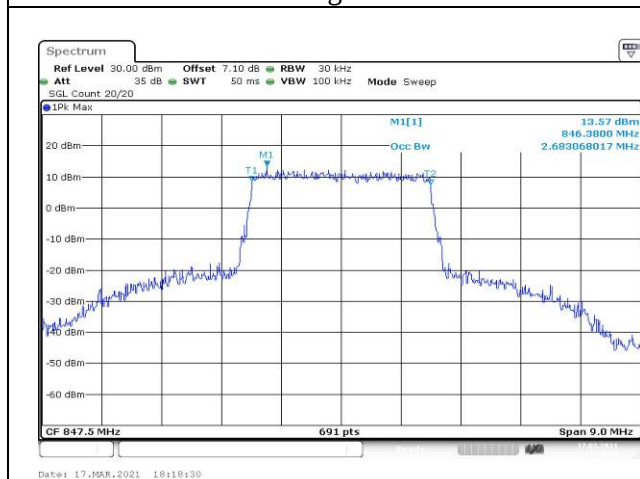
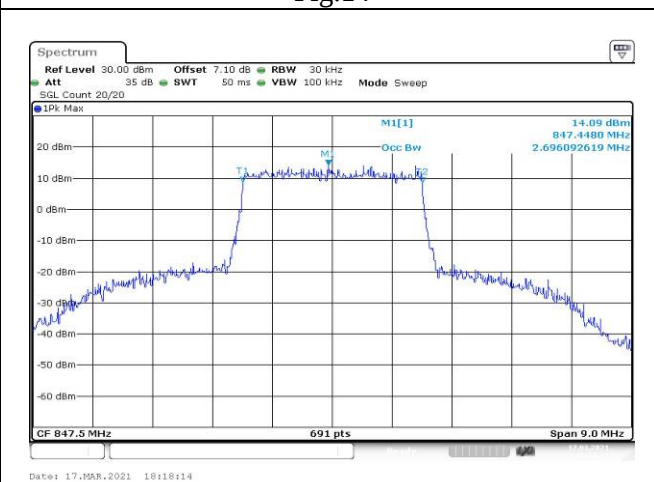
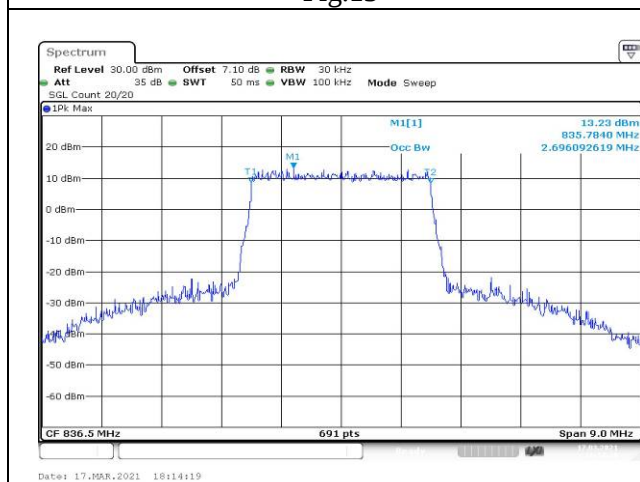
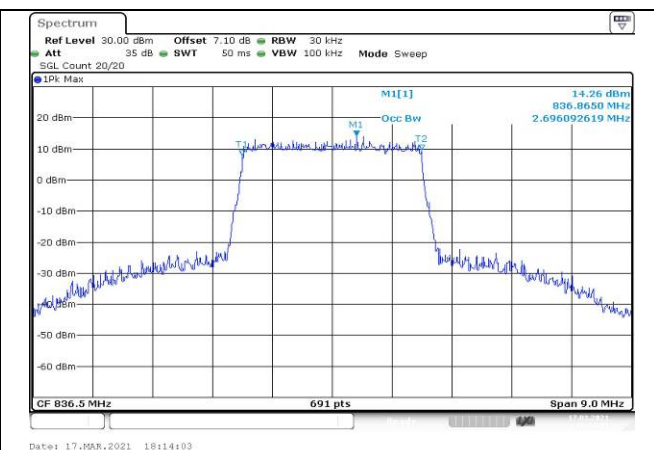
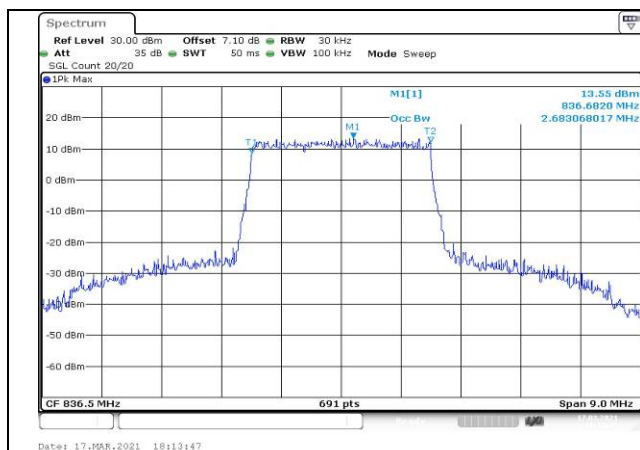


Fig.12



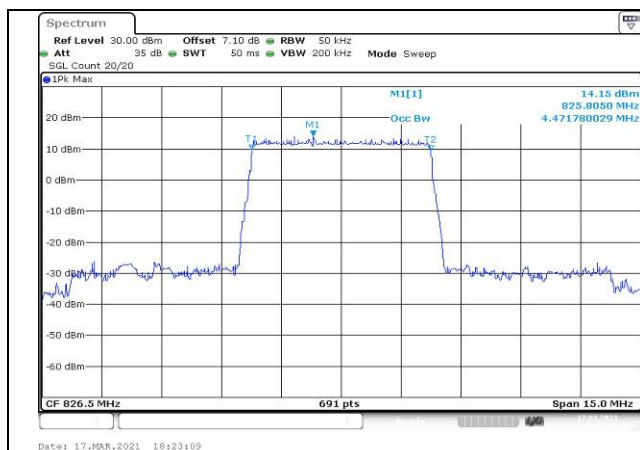


Fig.19

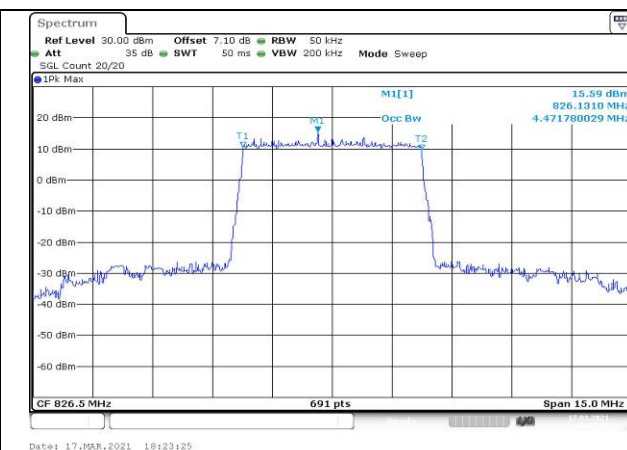


Fig.20

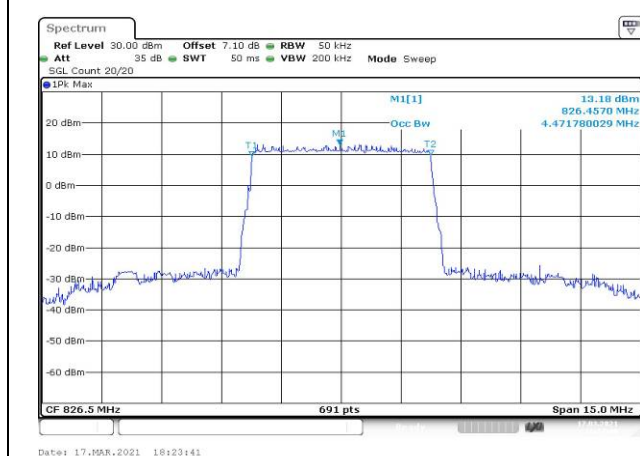


Fig.21

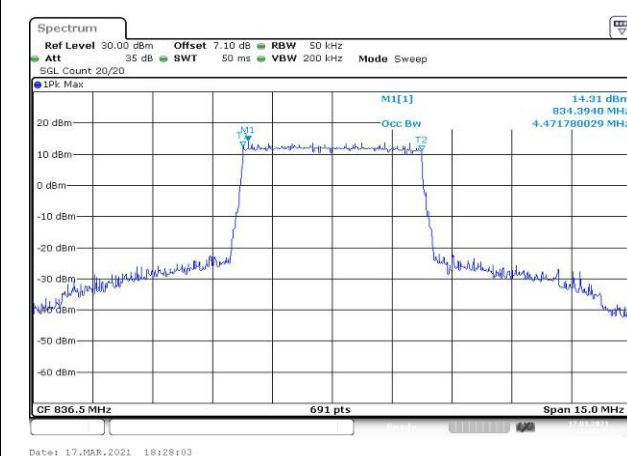


Fig.22

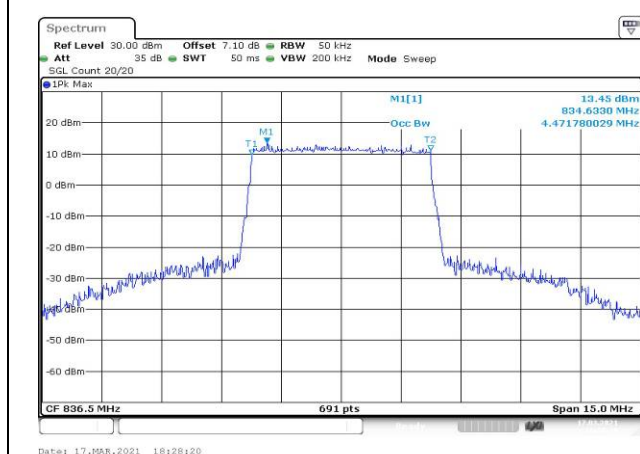


Fig.23

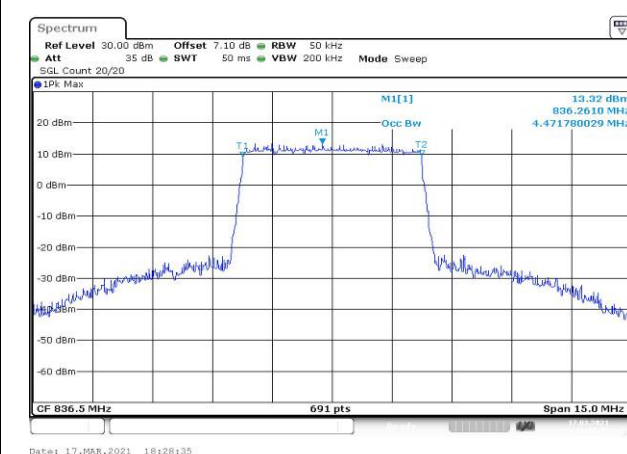


Fig.24

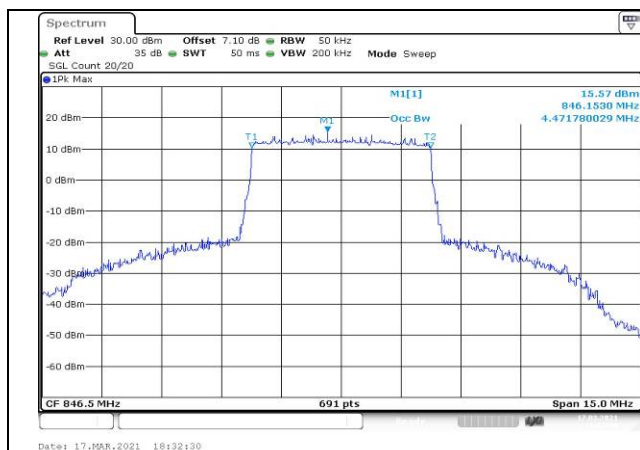


Fig.25

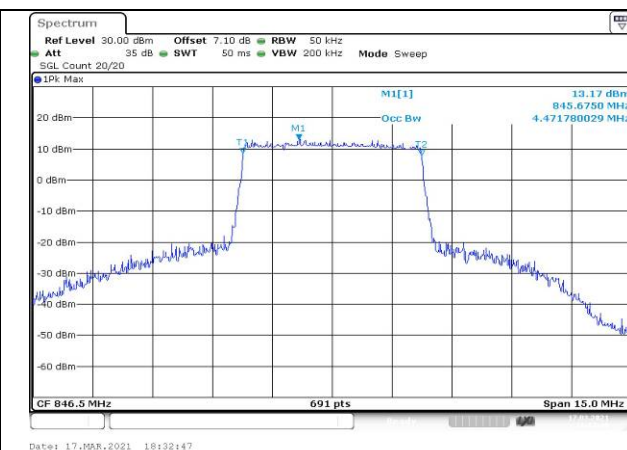


Fig.26

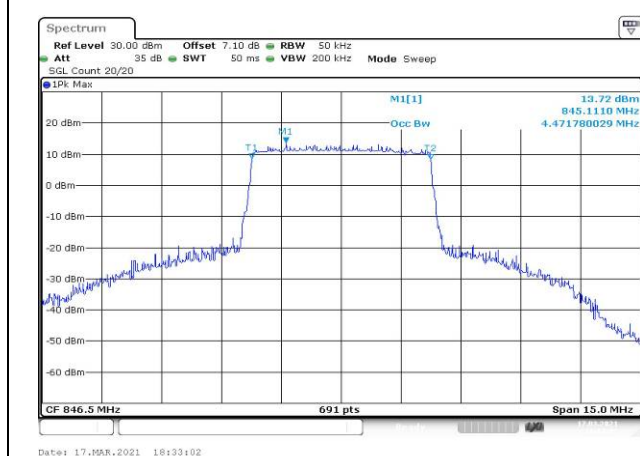


Fig.27

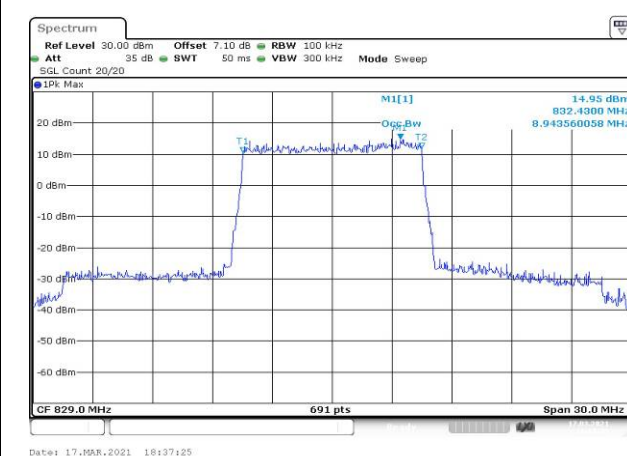


Fig.28

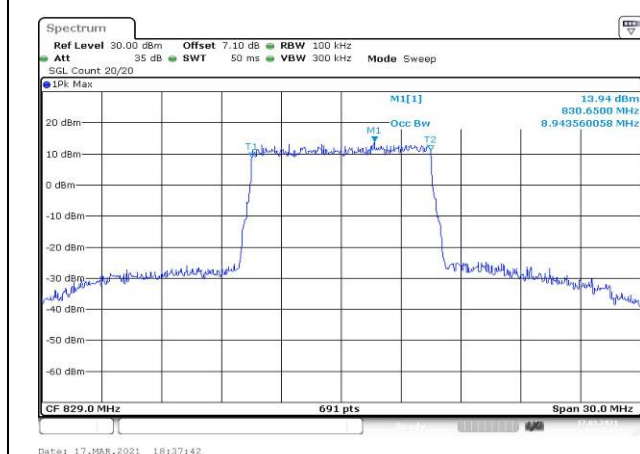


Fig.29

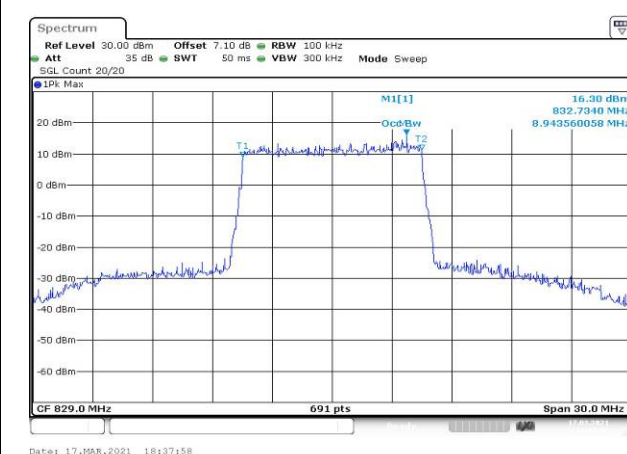
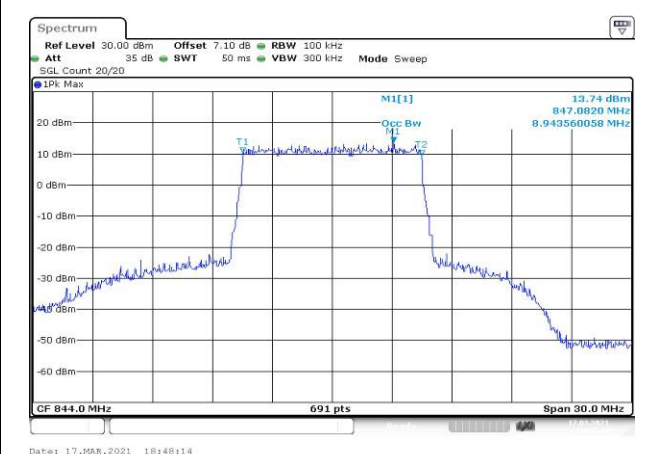
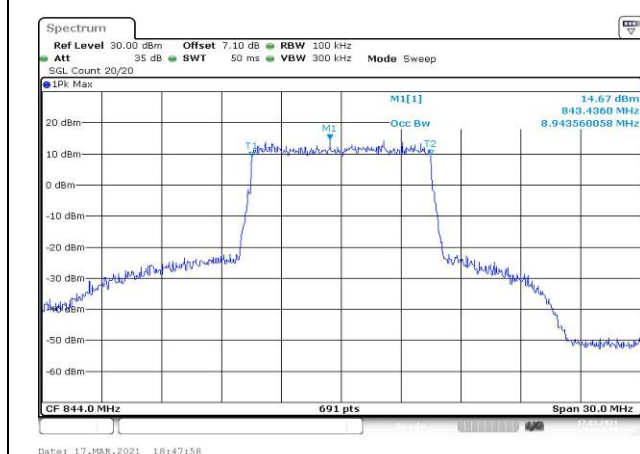
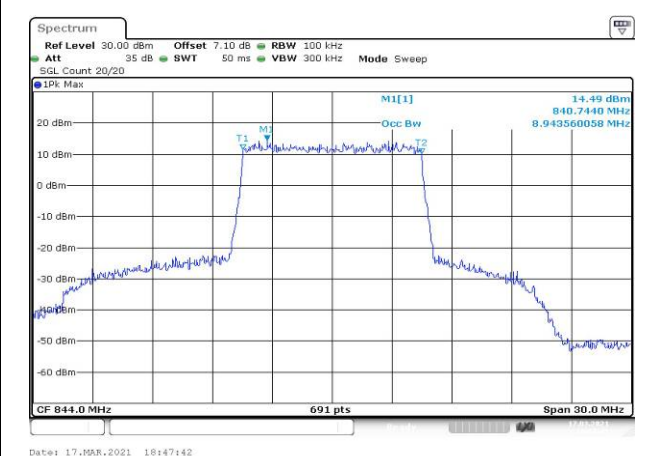
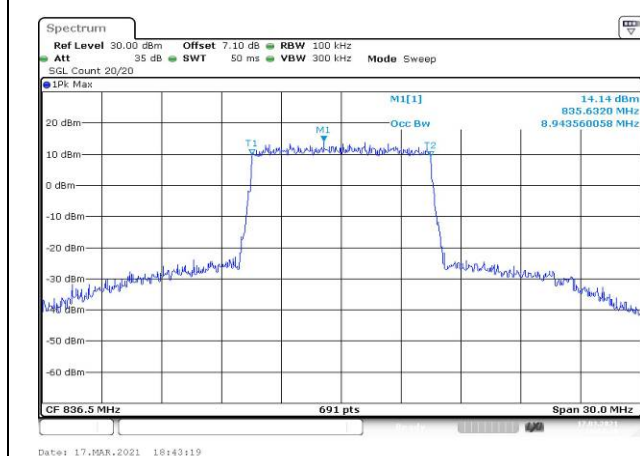
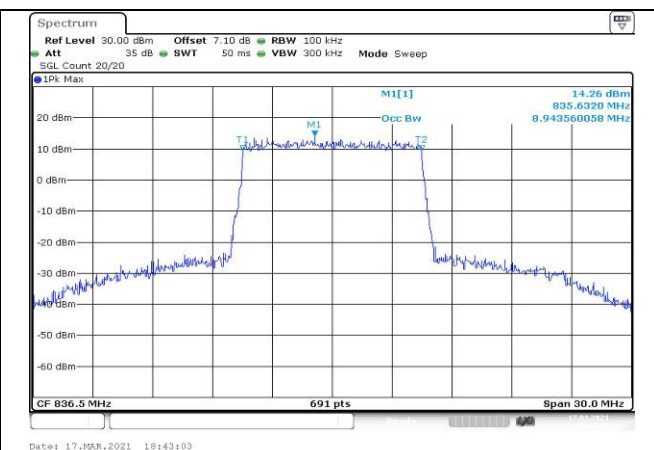
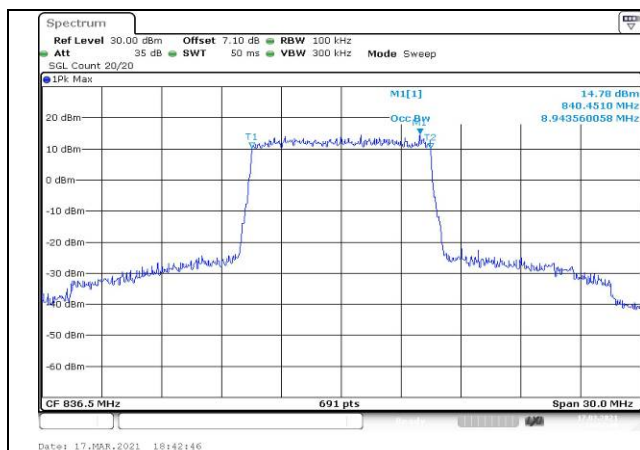


Fig.30



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	
5	824.7	20407	1.4	6	0	1.228	Fig.1	1.222	Fig.2	1.234	Fig.3
	836.5	20525		6	0	1.234	Fig.4	1.240	Fig.5	1.240	Fig.6
	848.3	20643		6	0	1.240	Fig.7	1.216	Fig.8	1.228	Fig.9
	825.5	20415	3	15	0	2.957	Fig.10	2.970	Fig.11	2.970	Fig.12
	836.5	20525		15	0	2.983	Fig.13	2.996	Fig.14	2.970	Fig.15
	847.5	20635		15	0	2.996	Fig.16	3.009	Fig.17	2.996	Fig.18
	826.5	20425	5	25	0	4.884	Fig.19	4.884	Fig.20	4.906	Fig.21
	836.5	20525		25	0	4.884	Fig.22	4.906	Fig.23	4.863	Fig.24
	846.5	20625		25	0	4.863	Fig.25	4.906	Fig.26	4.928	Fig.27
	829	20450	10	50	0	9.768	Fig.28	9.682	Fig.29	9.595	Fig.30
	836.5	20525		50	0	9.682	Fig.31	9.638	Fig.32	9.682	Fig.33
	844	20600		50	0	9.682	Fig.34	9.812	Fig.35	9.725	Fig.36

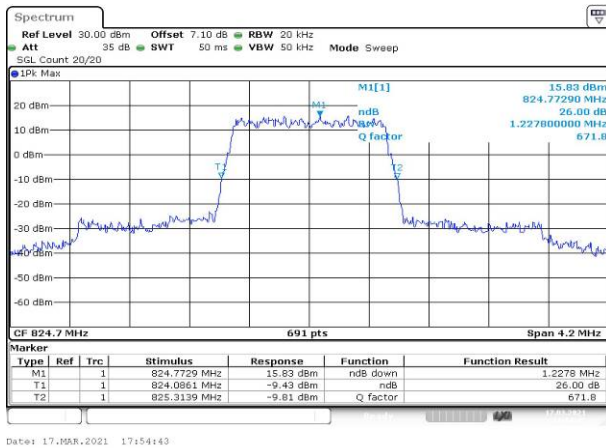


Fig.1

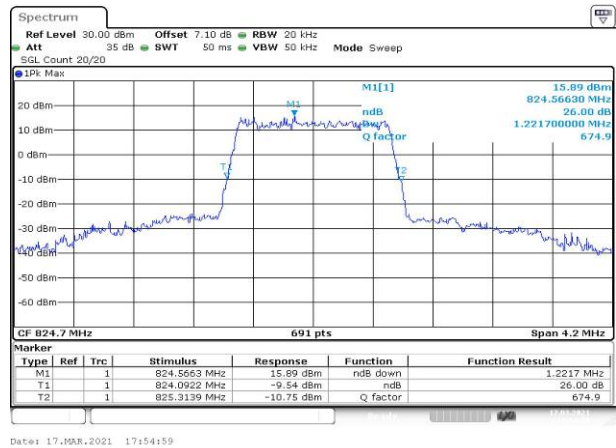


Fig.2

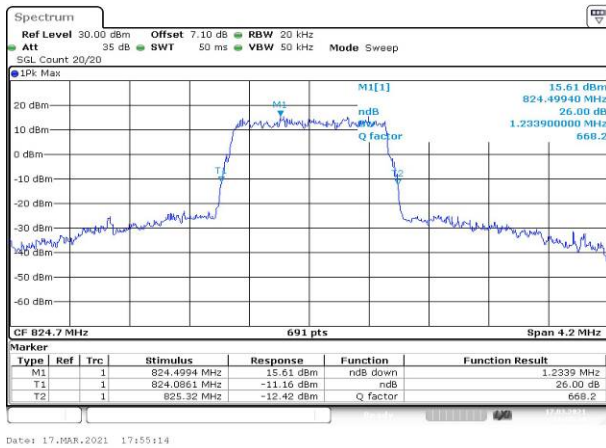


Fig.3

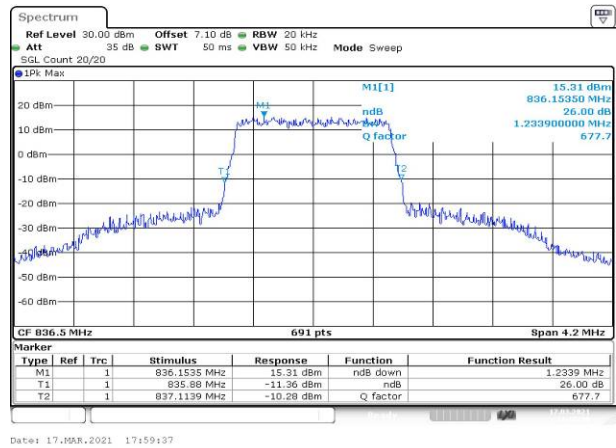


Fig.4

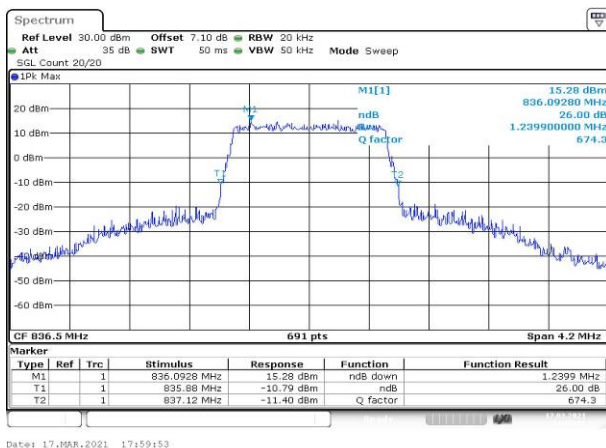


Fig.5

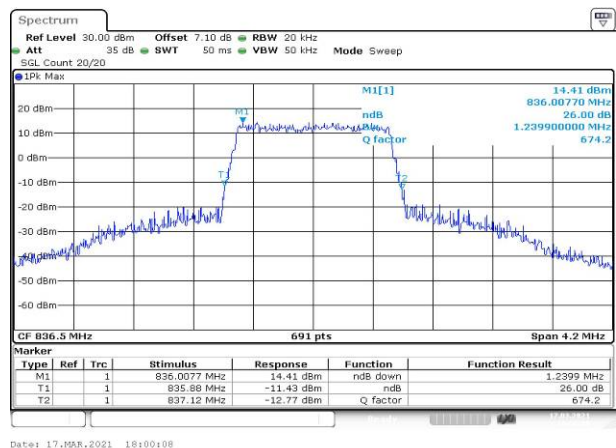


Fig.6

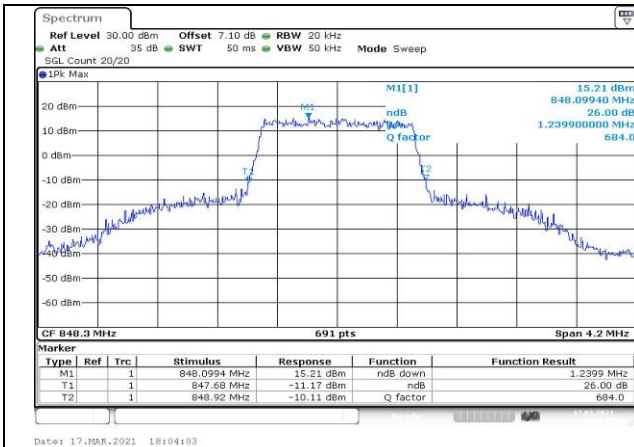


Fig.7

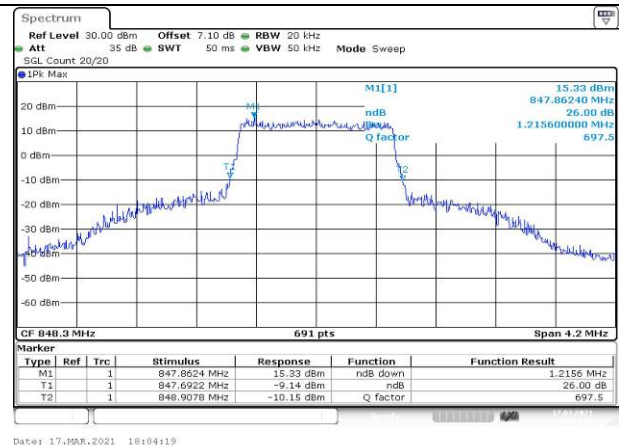


Fig.8

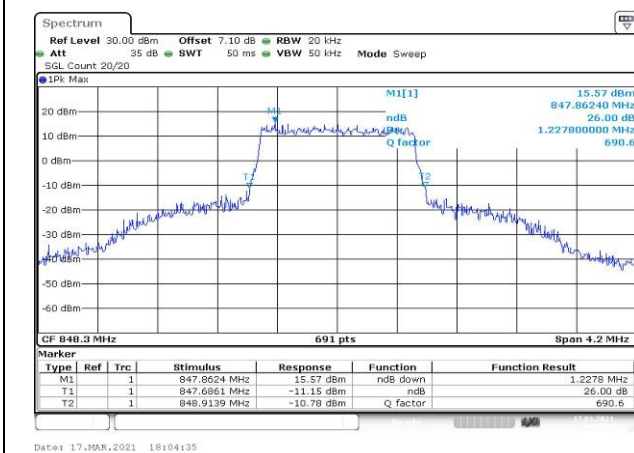


Fig.9

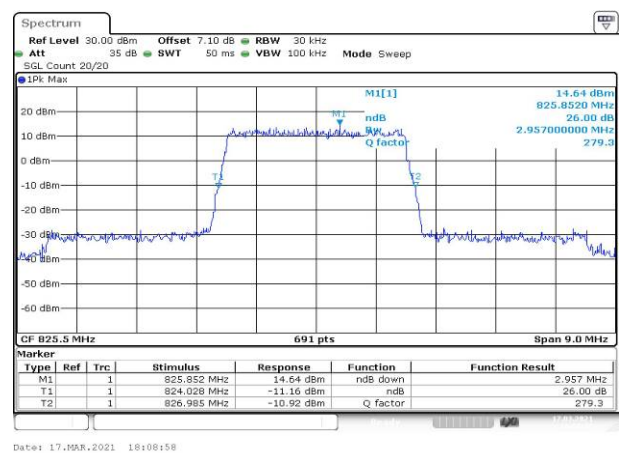


Fig.10

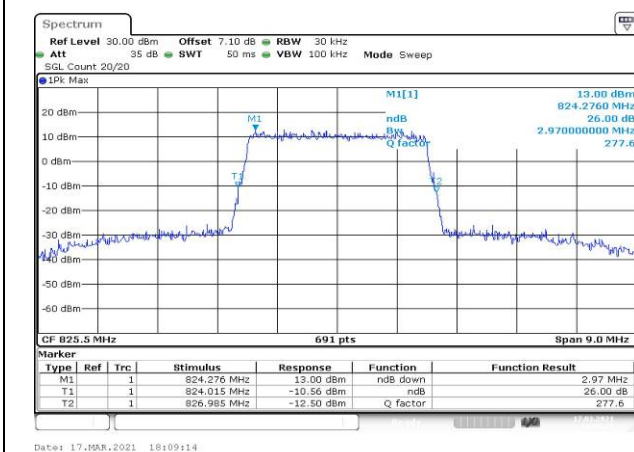


Fig.11

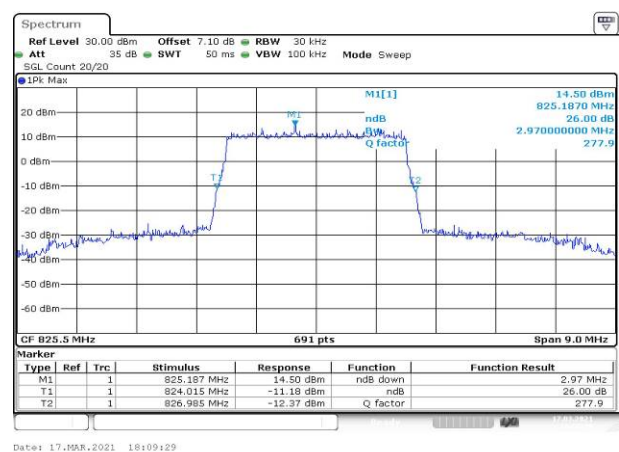


Fig.12

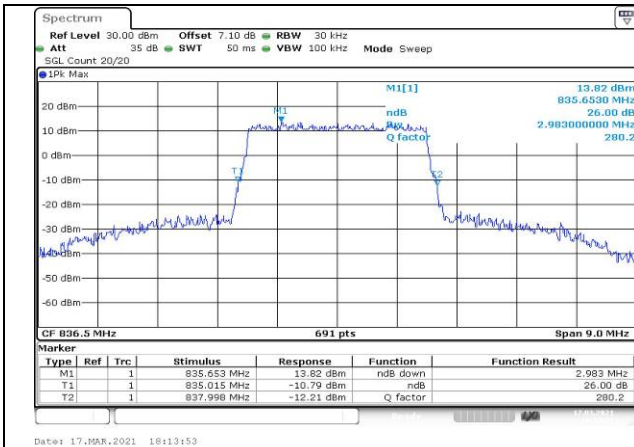


Fig.13

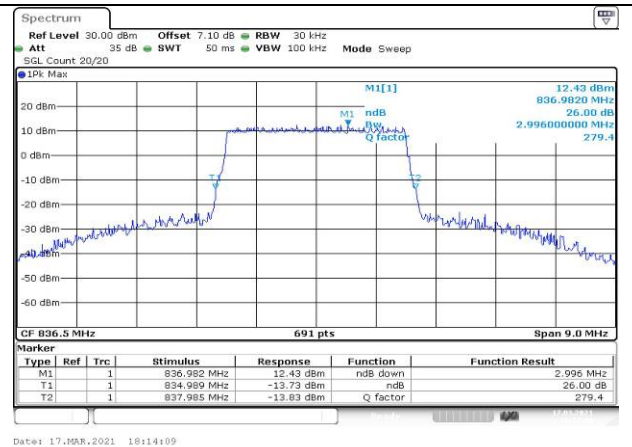


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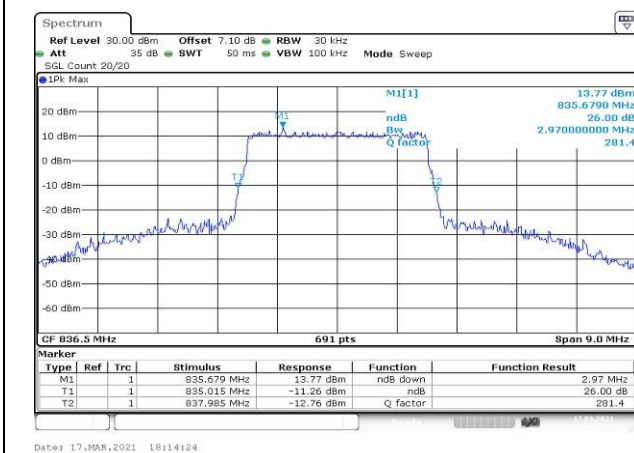


Fig.15

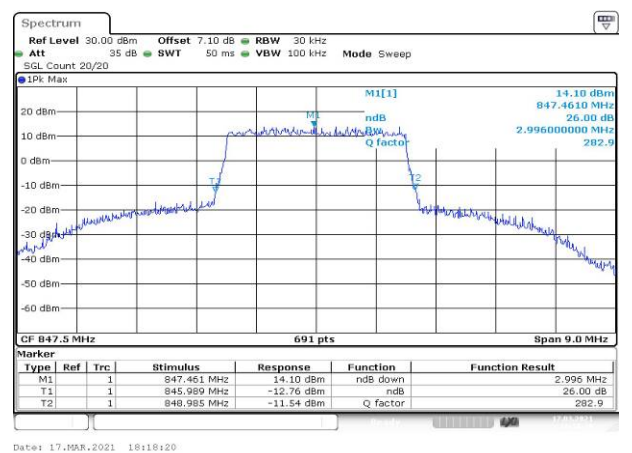


Fig.16

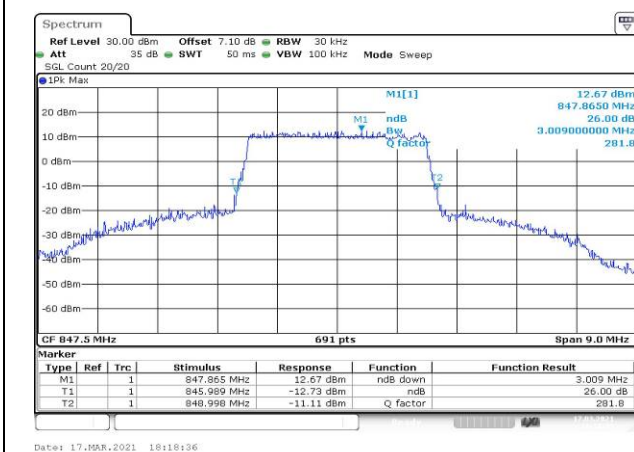


Fig.17

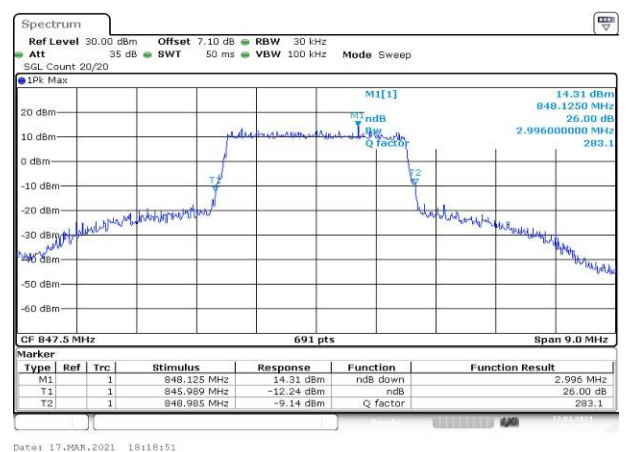


Fig.18

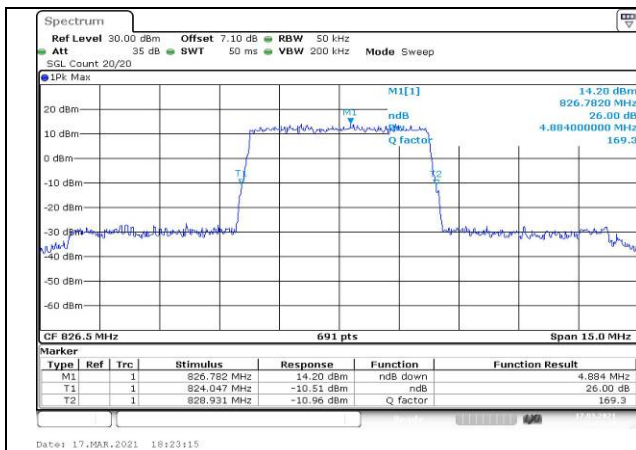


Fig.19

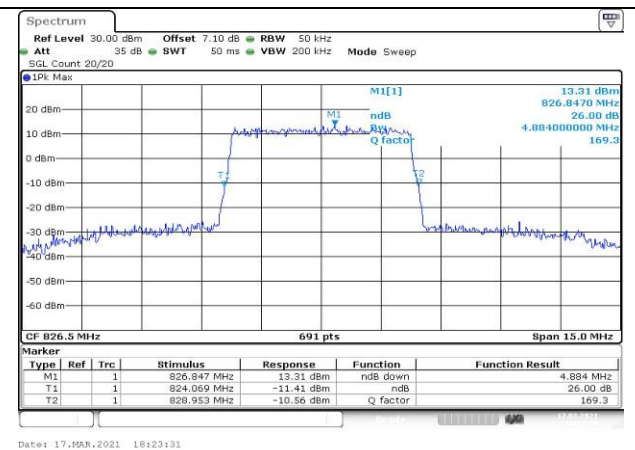


Fig.20

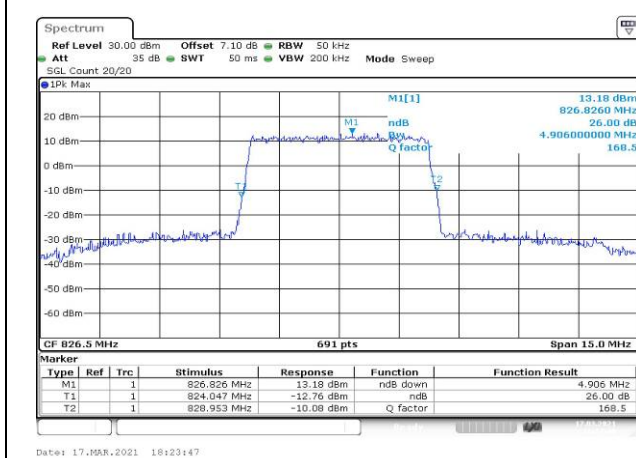


Fig.21

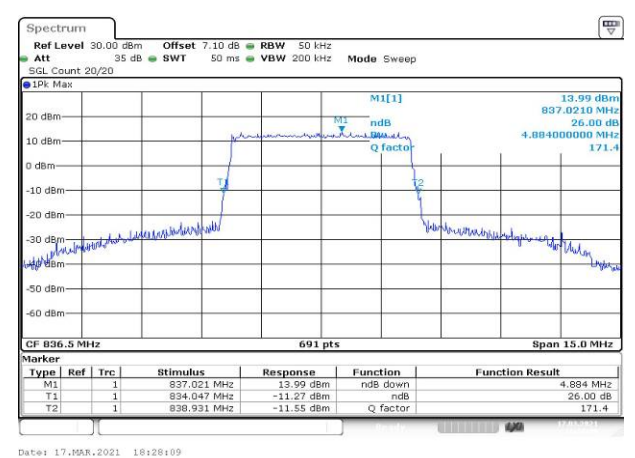


Fig.22

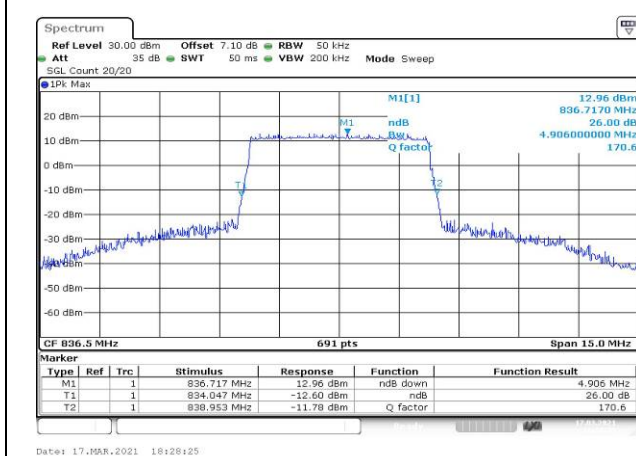


Fig.23

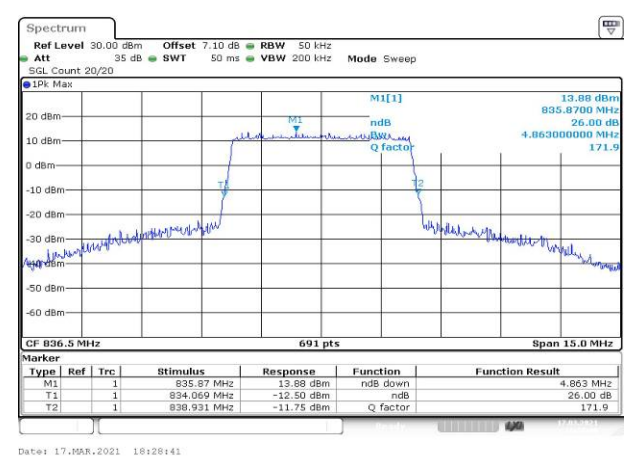


Fig.24

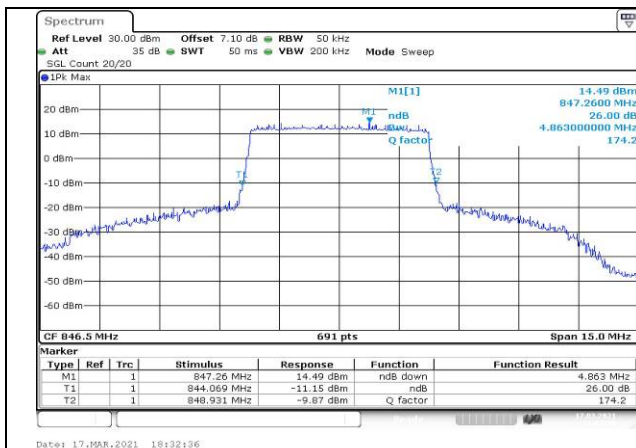


Fig.25

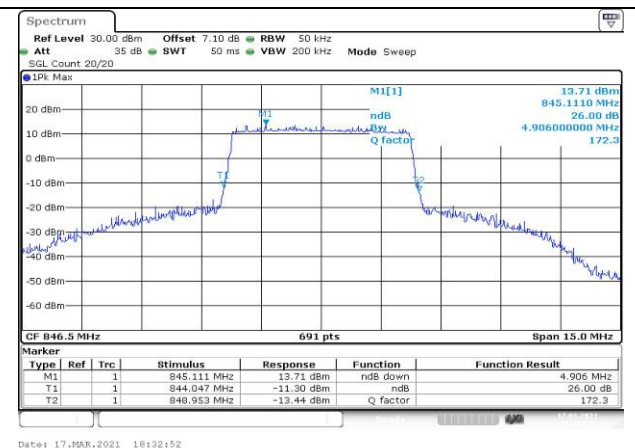


Fig.26

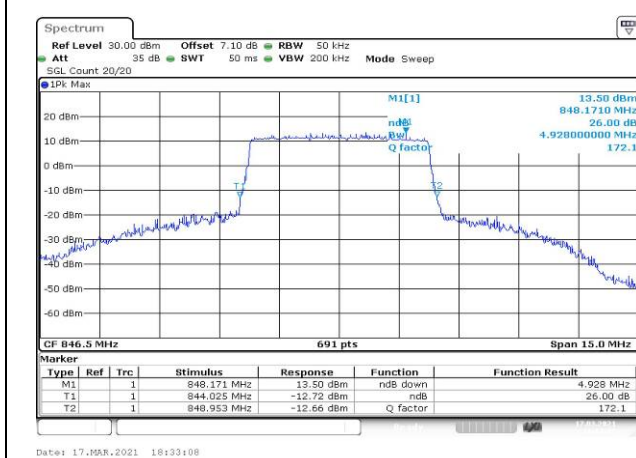


Fig.27

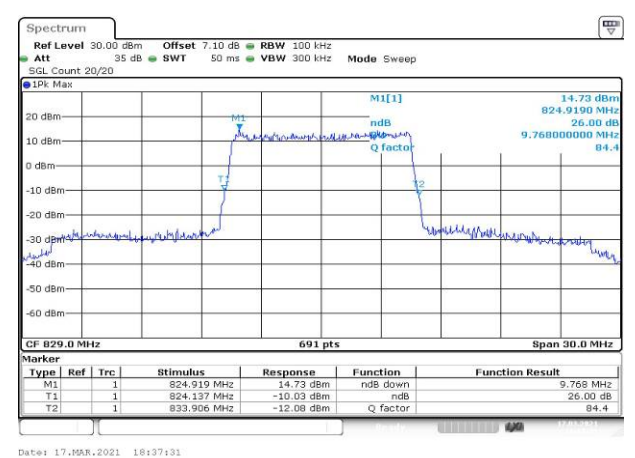


Fig.28

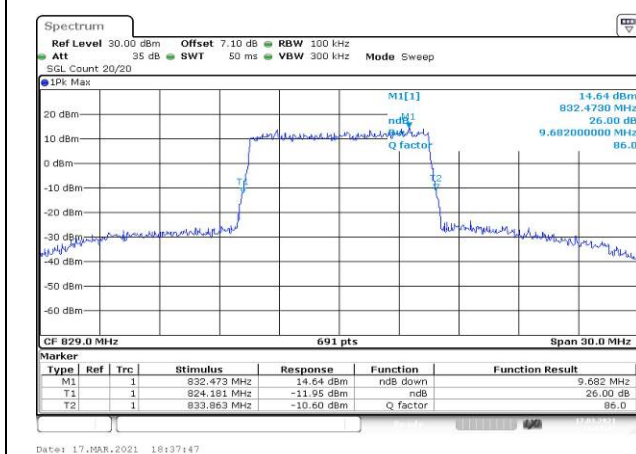


Fig.29

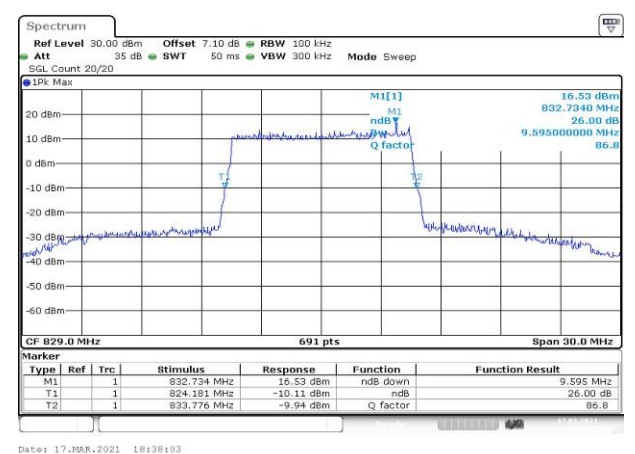


Fig.30

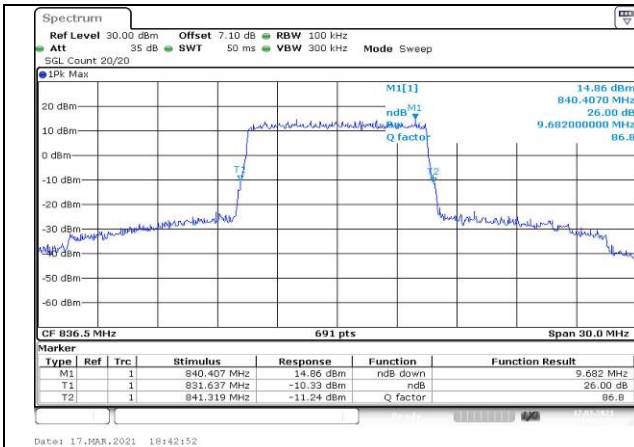


Fig.31

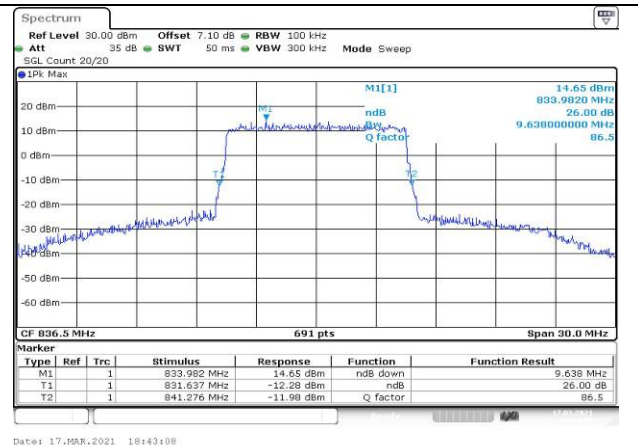


Fig.32

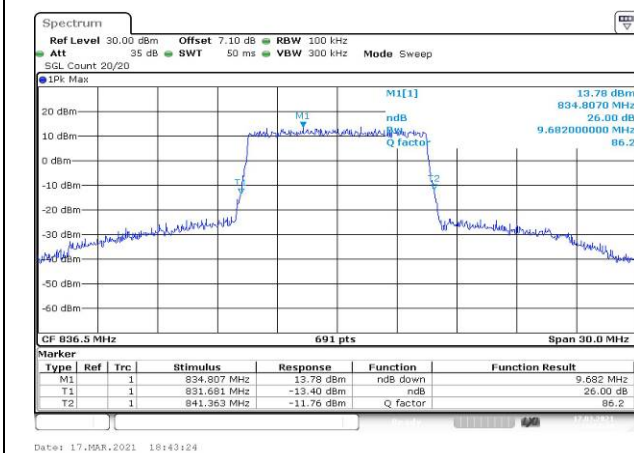


Fig.33

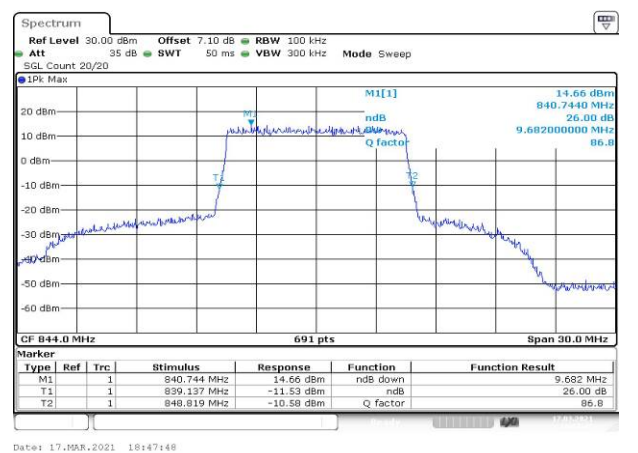


Fig.34

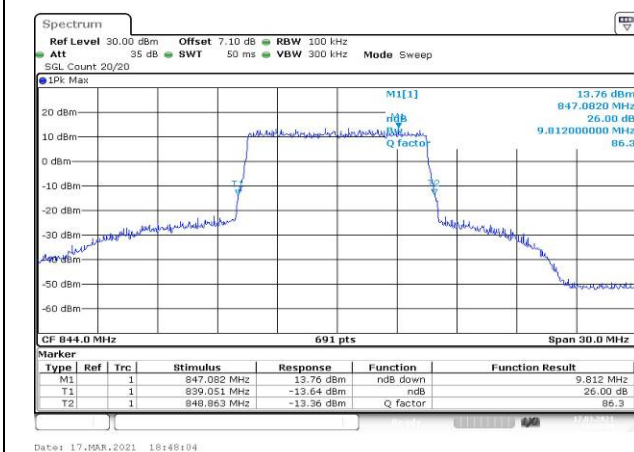


Fig.35

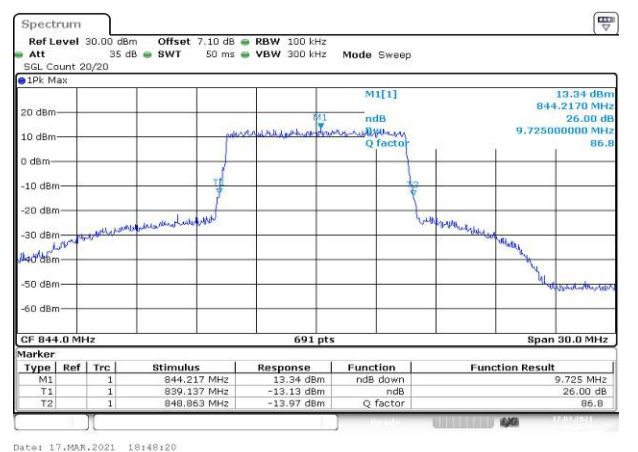


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
5	824.7	20407	1.4	1	5	Fig.1	Fig.2	Fig.3
	824.7	20407		6	0	Fig.4	Fig.5	Fig.6
	836.5	20525		1	5	Fig.7	Fig.8	Fig.9
	836.5	20525		6	0	Fig.10	Fig.11	Fig.12
	848.3	20643		1	5	Fig.13	Fig.14	Fig.15
	848.3	20643		6	0	Fig.16	Fig.17	Fig.18
	825.5	20415	3	1	14	Fig.19	Fig.20	Fig.21
	825.5	20415		15	0	Fig.22	Fig.23	Fig.24
	836.5	20525		1	14	Fig.25	Fig.26	Fig.27
	836.5	20525		15	0	Fig.28	Fig.29	Fig.30
	847.5	20635		1	14	Fig.31	Fig.32	Fig.33
	847.5	20635		15	0	Fig.34	Fig.35	Fig.36
	826.5	20425	5	1	24	Fig.37	Fig.38	Fig.39
	826.5	20425		25	0	Fig.40	Fig.41	Fig.42
	836.5	20525		1	24	Fig.43	Fig.44	Fig.45
	836.5	20525		25	0	Fig.46	Fig.47	Fig.48
	846.5	20625		1	24	Fig.49	Fig.50	Fig.51
	846.5	20625		25	0	Fig.52	Fig.53	Fig.54
	829	20450	10	1	49	Fig.55	Fig.56	Fig.57
	829	20450		50	0	Fig.58	Fig.59	Fig.60
	836.5	20525		1	49	Fig.61	Fig.62	Fig.63
	836.5	20525		50	0	Fig.64	Fig.65	Fig.66
	844	20600		1	49	Fig.67	Fig.68	Fig.69
	844	20600		50	0	Fig.70	Fig.71	Fig.72

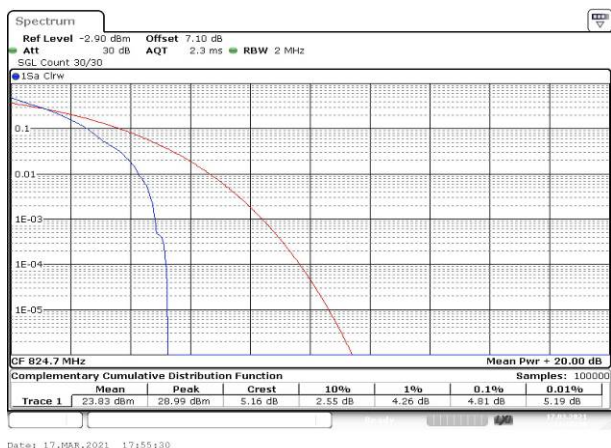


Fig.1

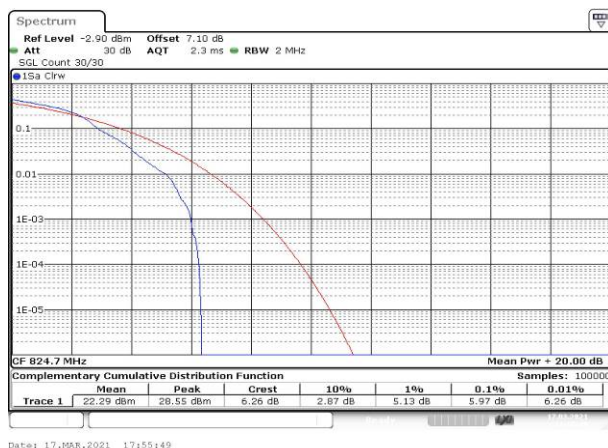


Fig.2

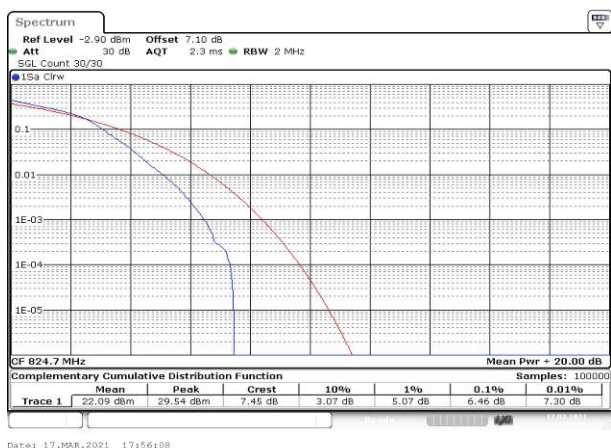


Fig.3

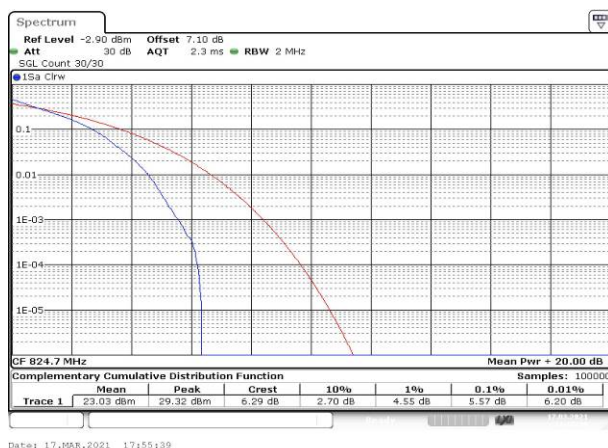


Fig.4

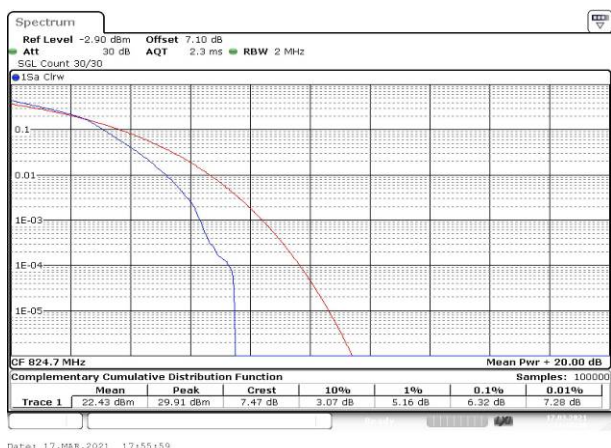


Fig.5

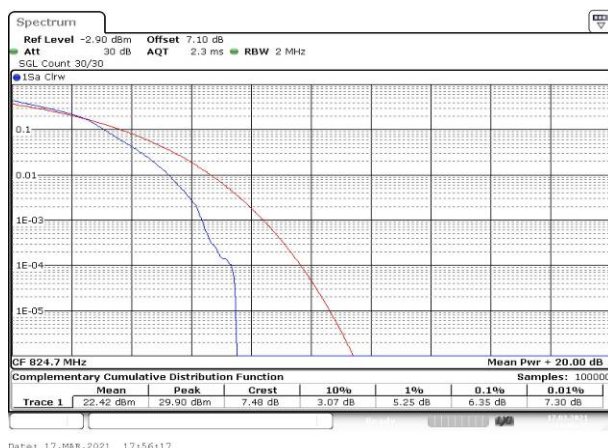


Fig.6

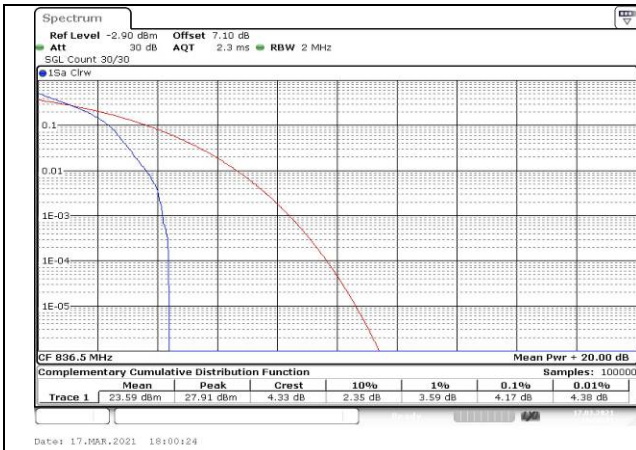


Fig.7



Fig.8

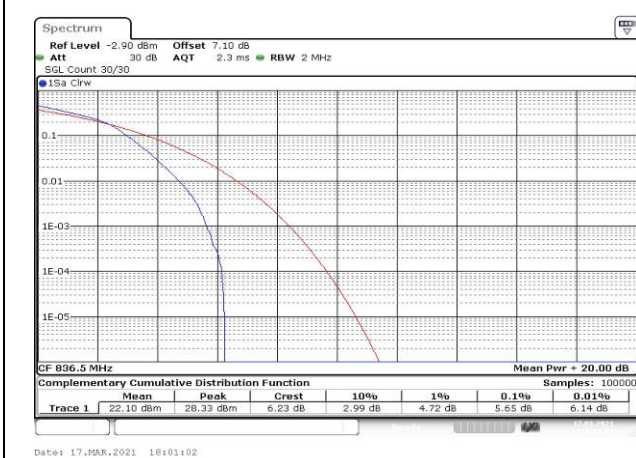


Fig.9



Fig.10

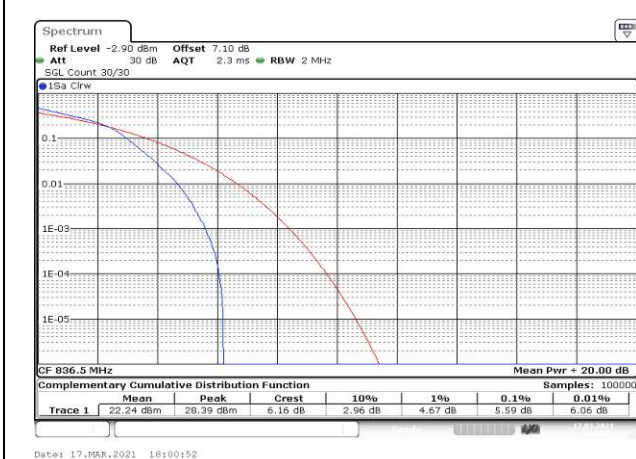


Fig.11

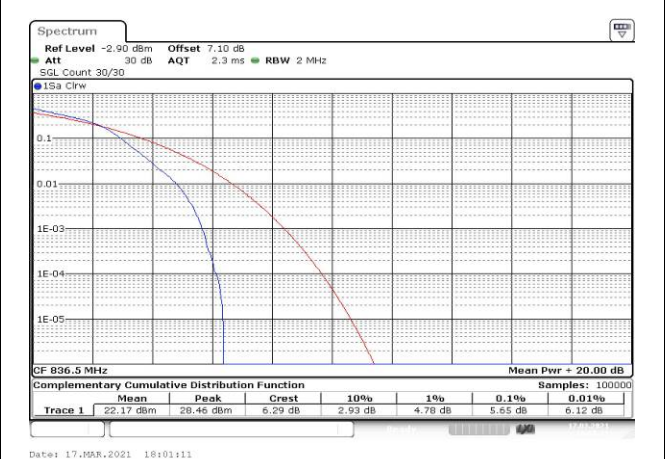


Fig.12

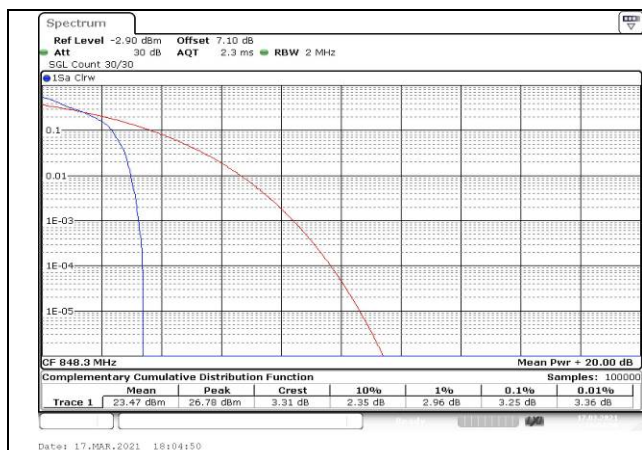


Fig.13

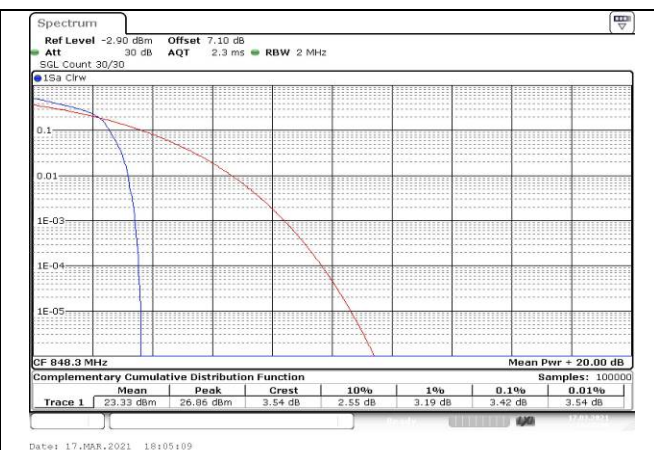


Fig.14

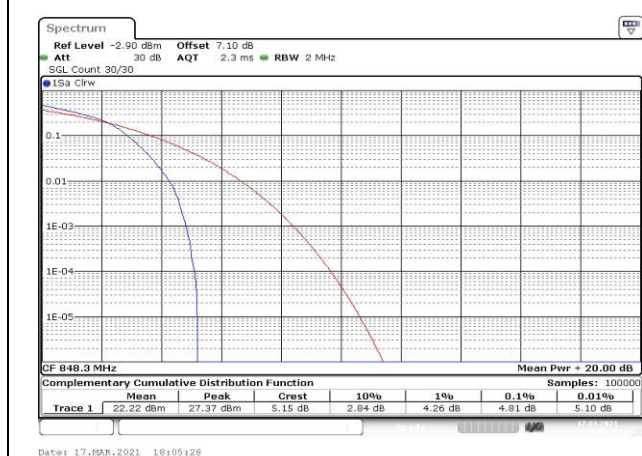


Fig.15

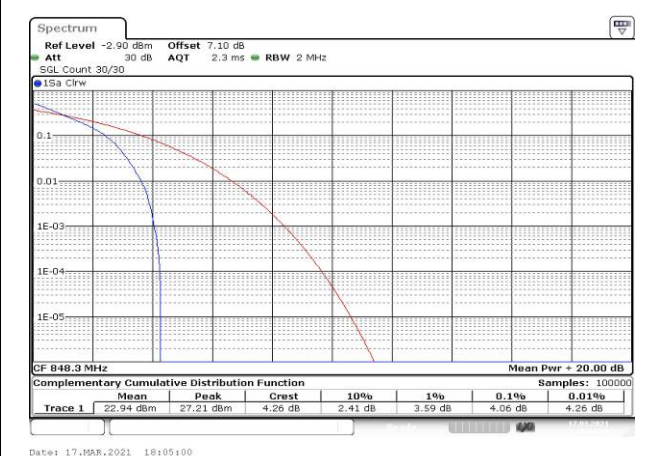


Fig.16

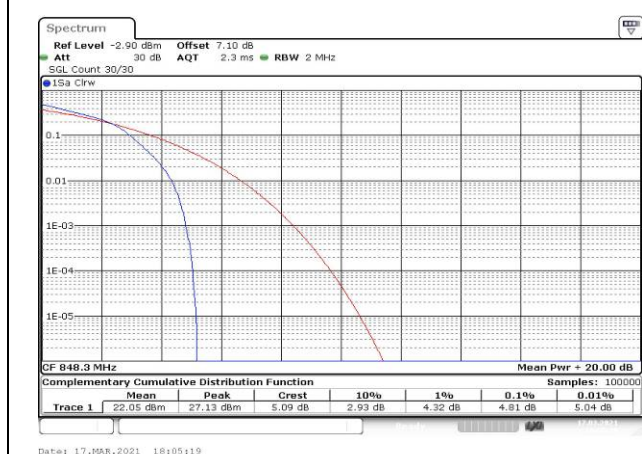


Fig.17

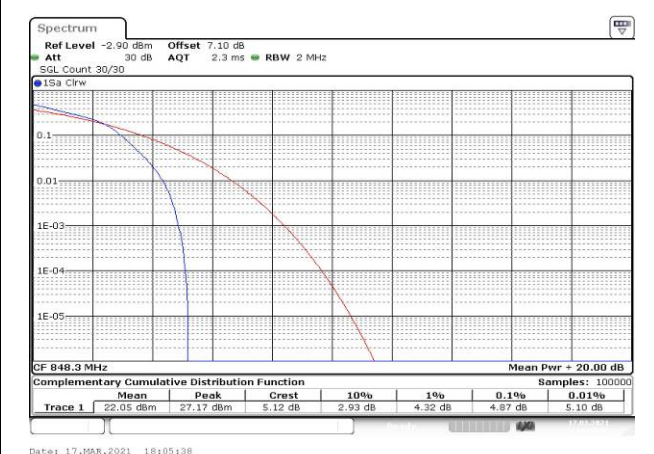


Fig.18