

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	23.21	
				1	3	23.21	
				1	5	23.31	
				3	0	23.32	
				3	1	23.43	
				3	3	23.45	
				6	0	22.51	
	836.5	20525		1	0	23.93	
				1	3	23.98	
				1	5	23.94	
				3	0	23.97	
				3	1	23.97	
				3	3	23.95	
				6	0	22.91	
	848.3	20643		1	0	23.82	
				1	3	23.47	
				1	5	23.45	
				3	0	23.86	
				3	1	23.82	
				3	3	23.85	
				6	0	22.87	
	16QAM	824.7		20407	1	0	22.62
					1	3	22.71
					1	5	22.71
3					0	22.67	
3					1	22.71	
3					3	22.68	
6					0	21.50	
836.5		20525		1	0	23.04	
				1	3	23.06	
				1	5	23.08	
				3	0	23.18	
				3	1	23.25	
				3	3	23.25	
				6	0	22.02	
848.3		20643		1	0	22.98	
				1	3	22.93	
				1	5	22.97	
				3	0	22.85	
				3	1	22.82	
				3	3	22.82	
				6	0	21.83	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	21.56
				1	3	21.48
				1	5	21.47
				3	0	21.45
				3	1	21.53
				3	3	21.67
	6	0		21.62		
	836.5	20525		1	0	21.95
				1	3	22.04
				1	5	21.99
				3	0	21.96
				3	1	21.96
				3	3	21.96
				6	0	22.00
				1	0	21.84
	848.3	20643		1	3	21.80
				1	5	21.85
				3	0	21.95
				3	1	21.83
				3	3	21.83
				6	0	21.91

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	825.5	20415	3	1	0	23.82	
				1	8	23.85	
				1	14	23.90	
				8	0	22.83	
				8	4	22.95	
				8	7	22.94	
				15	0	22.86	
	836.5	20525		1	0	24.12	
				1	8	24.10	
				1	14	24.06	
				8	0	23.11	
				8	4	23.06	
				8	7	23.05	
				15	0	23.03	
	847.5	20635		1	0	23.92	
				1	8	23.87	
				1	14	23.72	
				8	0	22.94	
				8	4	22.89	
				8	7	22.90	
				15	0	22.90	
	16QAM	825.5		20415	1	0	23.46
					1	8	23.46
					1	14	23.46
8					0	22.12	
8					4	22.15	
8					7	22.12	
15					0	21.97	
836.5		20525		1	0	23.24	
				1	8	23.20	
			1	14	23.22		
			8	0	22.08		
			8	4	22.04		
			8	7	22.04		
			15	0	22.01		
847.5		20635	1	0	23.10		
			1	8	22.93		
			1	14	23.05		
			8	0	21.97		
			8	4	21.93		
			8	7	21.93		
			15	0	21.92		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	21.97
				1	8	21.97
				1	14	21.97
				8	0	21.95
				8	4	21.95
				8	7	21.95
				15	0	21.95
	836.5	20525		1	0	22.02
				1	8	22.02
				1	14	22.03
				8	0	22.03
				8	4	22.01
				8	7	22.01
				15	0	22.01
	847.5	20635		1	0	21.91
				1	8	21.91
				1	14	21.98
				8	0	21.90
				8	4	21.90
				8	7	21.91
				15	0	21.91

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	826.5	20425	5	1	0	23.84	
				1	12	23.85	
				1	24	23.85	
				12	0	22.92	
				12	7	22.98	
				12	13	22.97	
				25	0	22.97	
	836.5	20525		1	0	24.13	
				1	12	24.00	
				1	24	24.00	
				12	0	23.08	
				12	7	22.99	
				12	13	23.06	
				25	0	23.07	
	846.5	20625		1	0	23.90	
				1	12	23.83	
				1	24	23.84	
				12	0	22.94	
				12	7	22.83	
				12	13	22.90	
				25	0	22.90	
	16QAM	826.5		20425	1	0	22.88
					1	12	22.84
					1	24	22.82
12					0	21.84	
12					7	21.90	
12					13	21.91	
25					0	22.04	
836.5		20525		1	0	23.37	
				1	12	23.28	
				1	24	23.30	
				12	0	22.11	
				12	7	22.12	
				12	13	22.12	
				25	0	22.05	
846.5		20625		1	0	23.06	
				1	12	22.99	
				1	24	22.98	
				12	0	21.90	
				12	7	21.88	
				12	13	21.87	
				25	0	21.99	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	22.01
				1	12	22.04
				1	24	22.02
				12	0	22.01
				12	7	22.05
				12	13	22.02
	25	0		22.05		
	836.5	20525		1	0	22.06
				1	12	22.06
				1	24	22.06
				12	0	22.06
				12	7	22.06
				12	13	22.06
	25	0		22.06		
	846.5	20625		1	0	21.91
				1	12	21.92
				1	24	21.92
				12	0	21.93
				12	7	21.93
				12	13	21.94
				25	0	21.94

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	829	20450	10	1	0	23.84	
				1	25	23.97	
				1	49	23.99	
				25	0	23.00	
				25	12	22.99	
				25	25	22.99	
				50	0	22.95	
	836.5	20525		1	0	24.00	
				1	25	23.92	
				1	49	23.89	
				25	0	23.12	
				25	12	22.97	
				25	25	23.01	
				50	0	23.01	
	844	20600		1	0	24.02	
				1	25	23.79	
				1	49	23.87	
				25	0	22.93	
				25	12	22.94	
				25	25	22.93	
				50	0	22.96	
	16QAM	829		20450	1	0	23.49
					1	25	23.57
					1	49	23.57
25					0	22.05	
25					12	22.04	
25					25	22.03	
50					0	21.98	
836.5		20525		1	0	23.15	
				1	25	23.04	
				1	49	23.10	
				25	0	22.11	
				25	12	21.98	
				25	25	22.03	
				50	0	22.05	
844		20600		1	0	23.07	
				1	25	22.95	
				1	49	22.96	
				25	0	22.11	
				25	12	22.05	
				25	25	22.01	
				50	0	22.05	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	21.95
				1	25	21.98
				1	49	21.95
				25	0	21.93
				25	12	21.93
				25	25	22.00
				50	0	21.97
	836.5	20525		1	0	22.06
				1	25	22.06
				1	49	22.07
				25	0	22.07
				25	12	22.07
				25	25	22.07
				50	0	22.07
	844	20600		1	0	21.96
				1	25	22.00
				1	49	21.95
				25	0	21.95
				25	12	21.96
				25	25	21.99
				50	0	21.96

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	1.082	Fig.1	1.082	Fig.2	1.088	Fig.3
	836.5	20525		6	0	1.082	Fig.4	1.088	Fig.5	1.088	Fig.6
	848.3	20643		6	0	1.082	Fig.7	1.082	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	2.670	Fig.13	2.683	Fig.14	2.683	Fig.15
	847.5	20635		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	826.5	20425	5	25	0	4.472	Fig.19	4.450	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	4.493	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	8.900	Fig.35	8.900	Fig.36

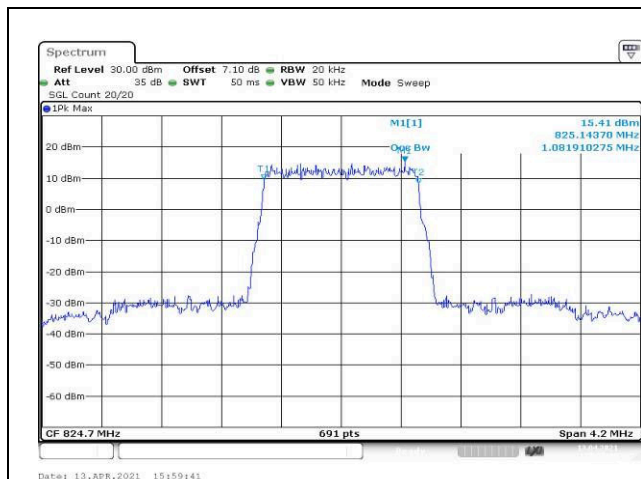


Fig.1

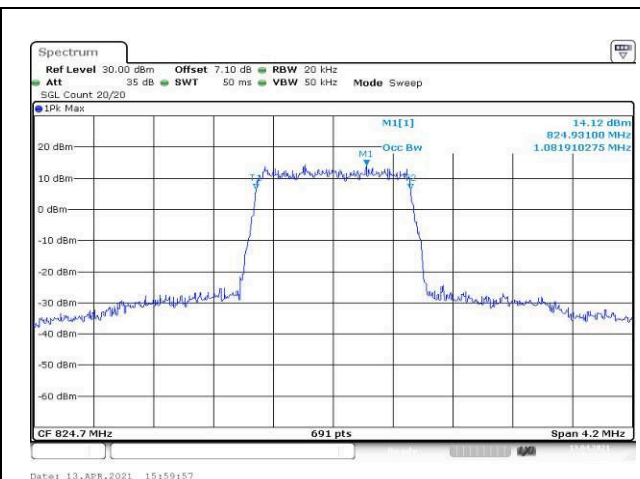


Fig.2

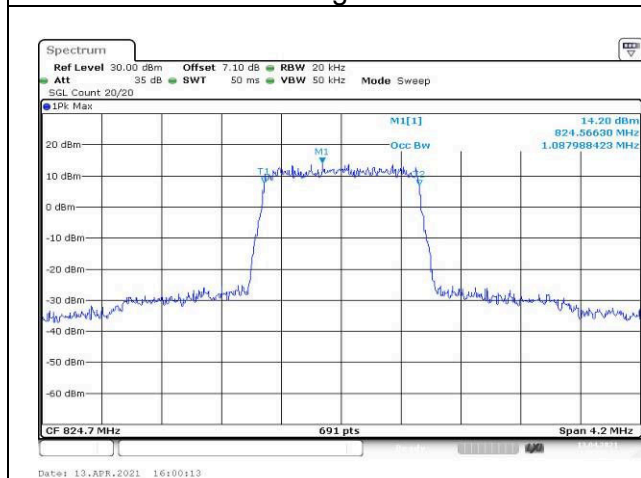


Fig.3

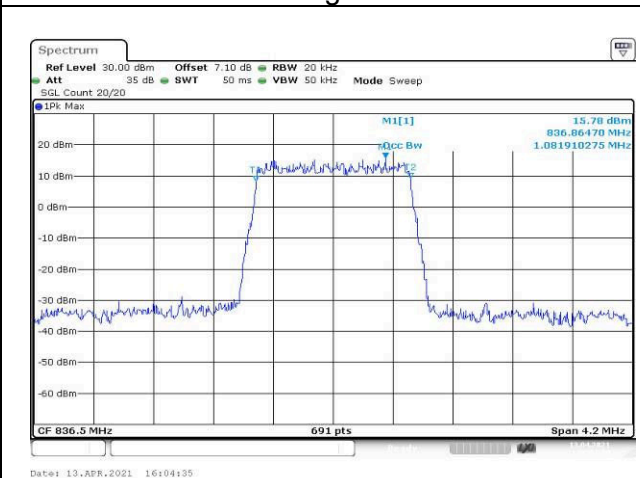


Fig.4

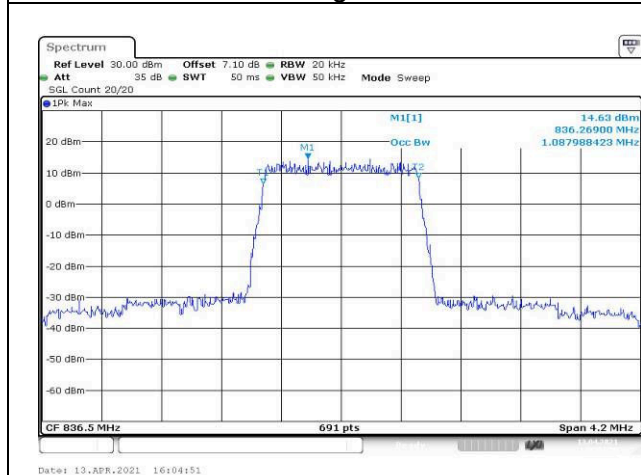


Fig.5

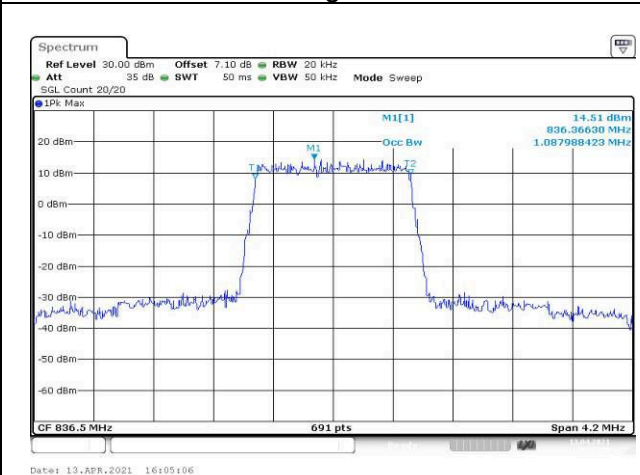
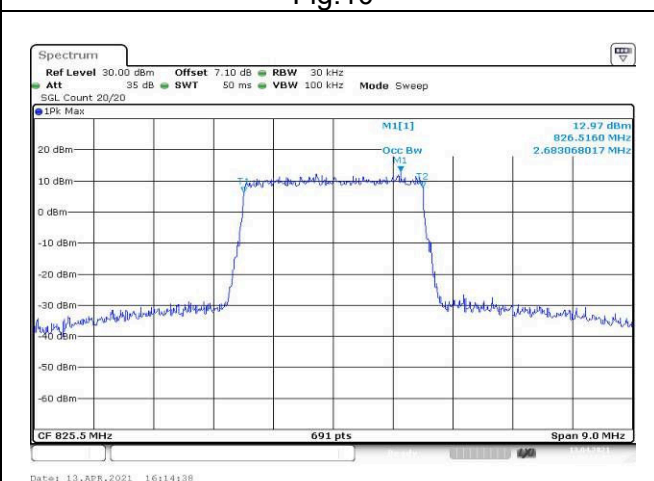
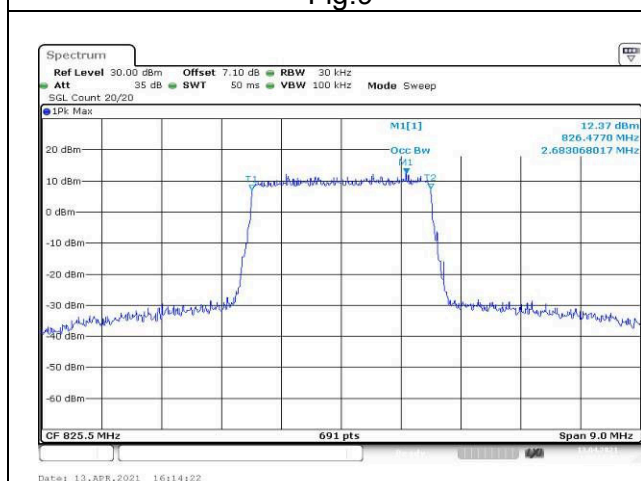
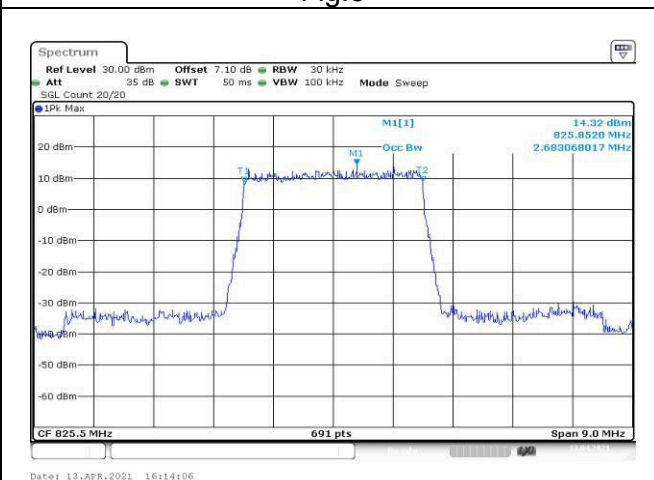
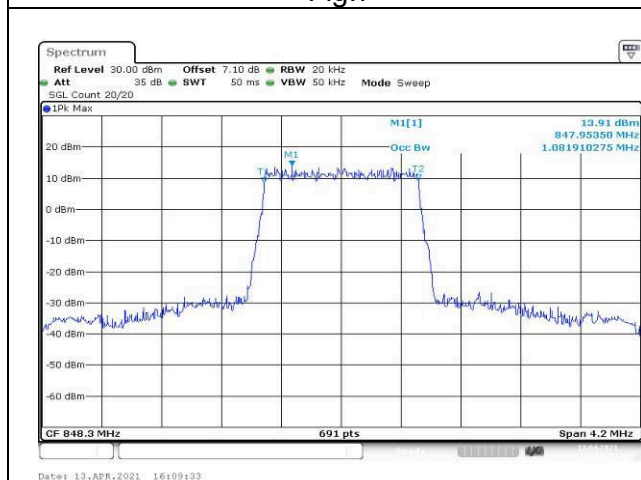
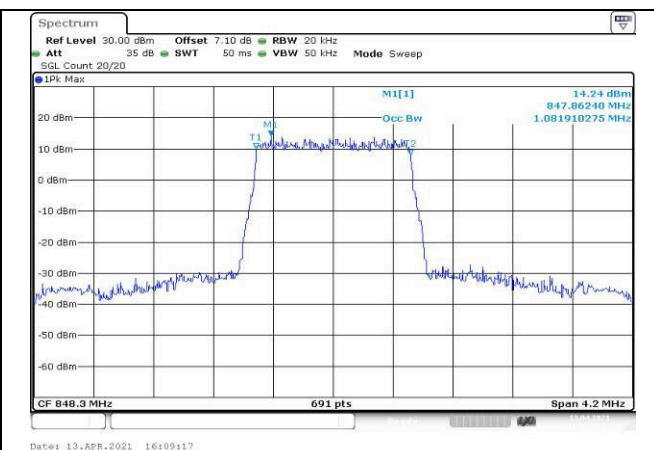
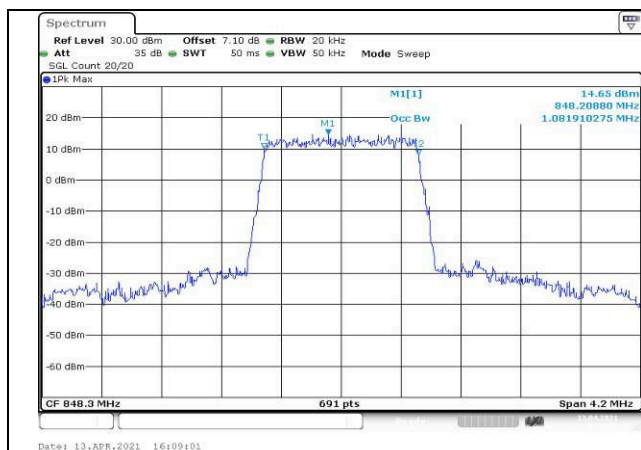
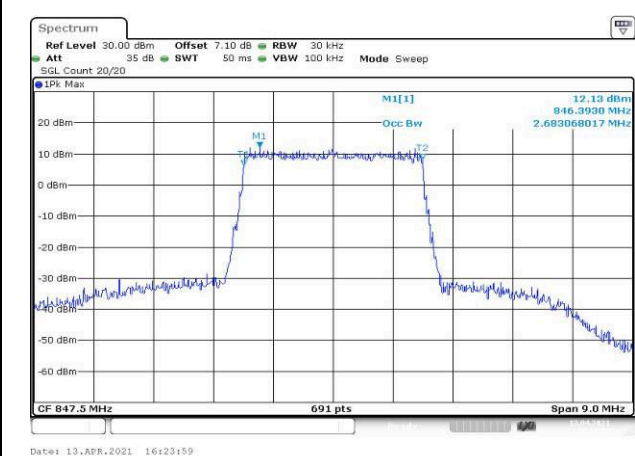
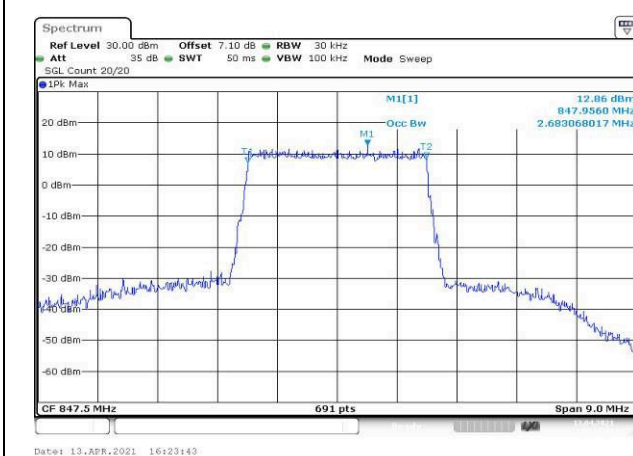
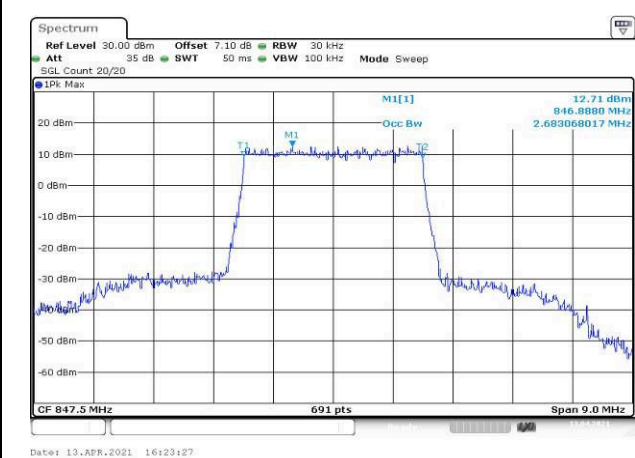
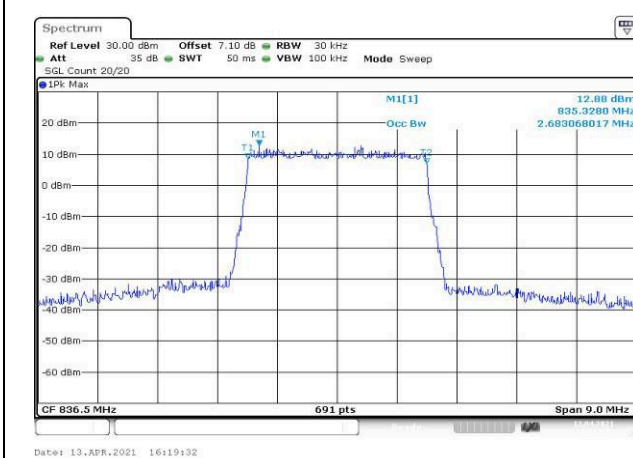
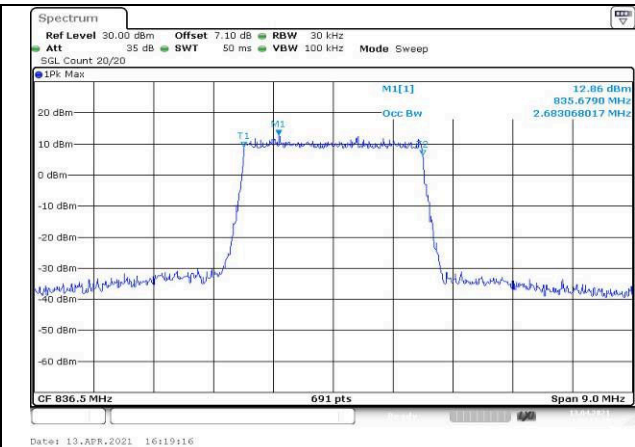
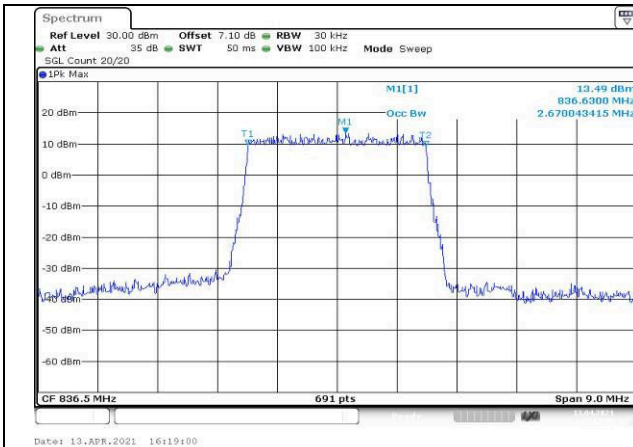


Fig.6





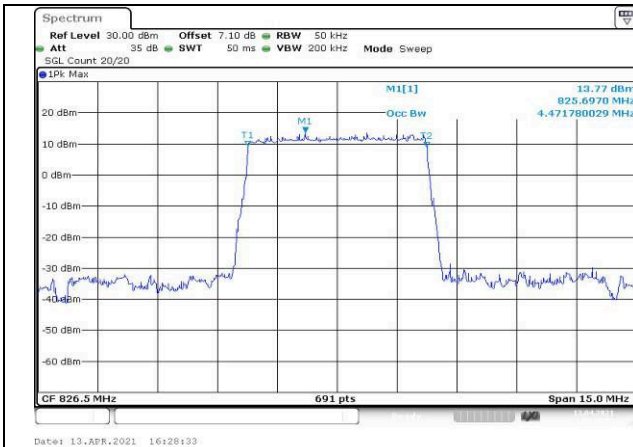


Fig.19

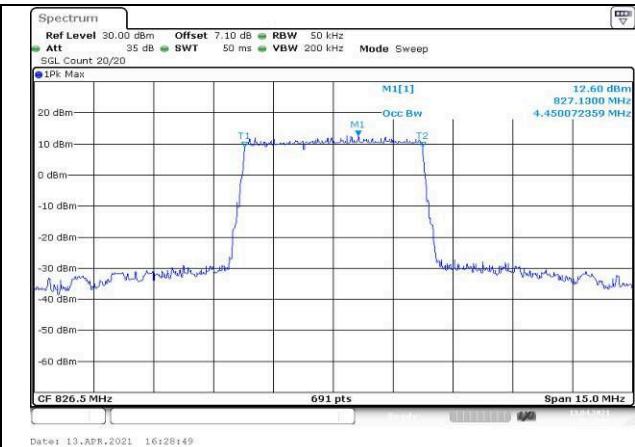


Fig.20

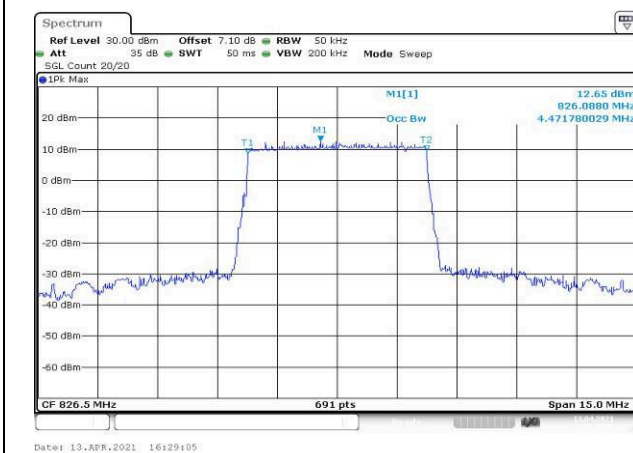


Fig.21

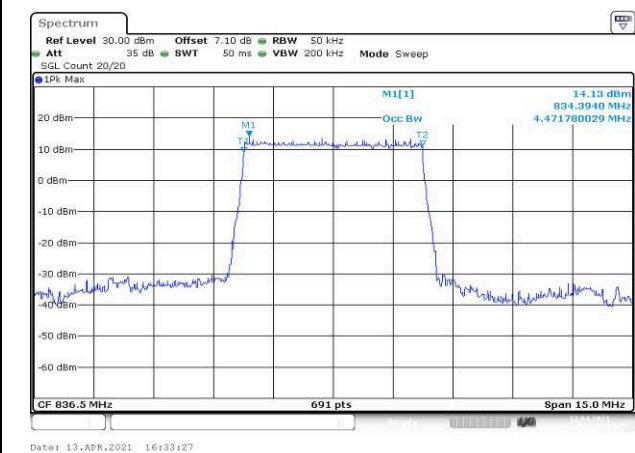


Fig.22

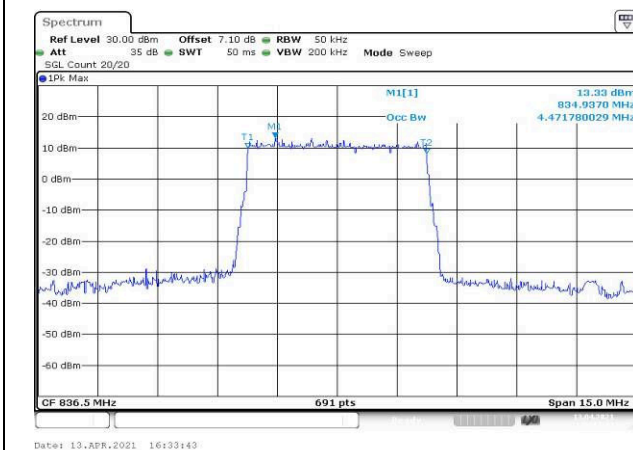


Fig.23

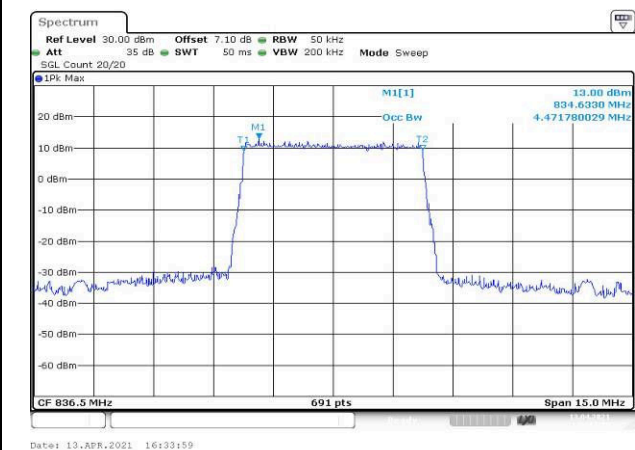


Fig.24

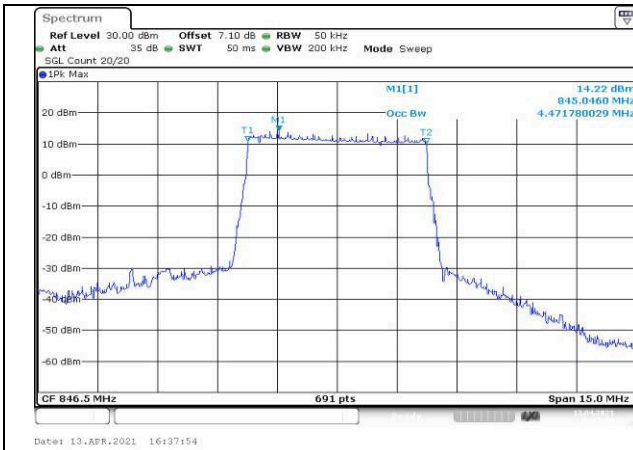


Fig.25

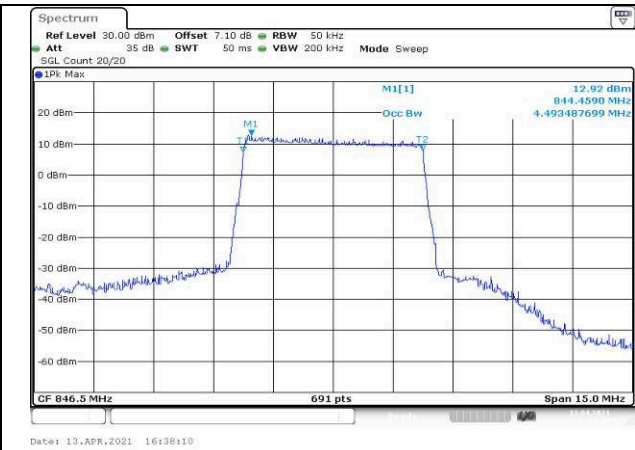


Fig.26

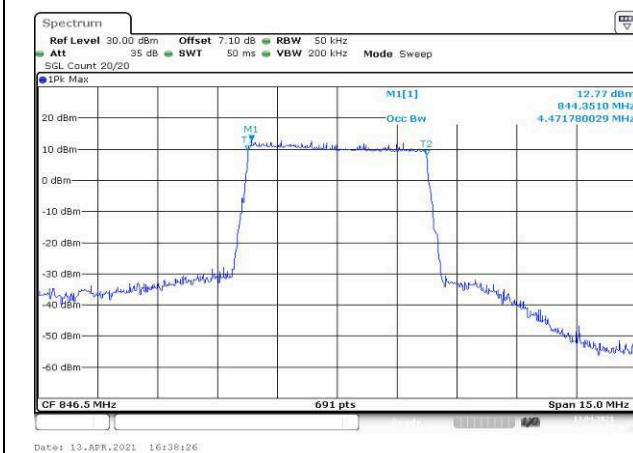


Fig.27

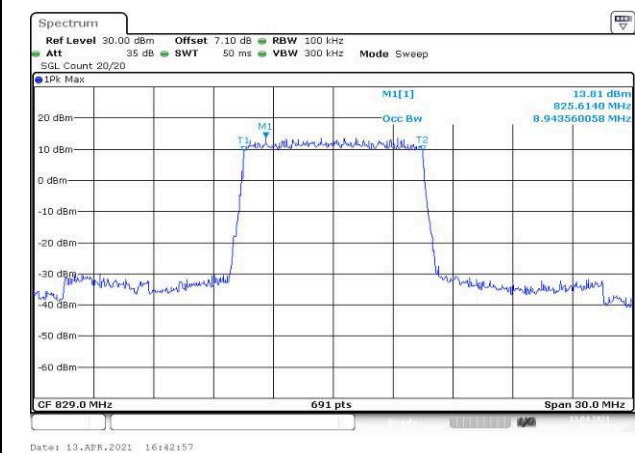


Fig.28

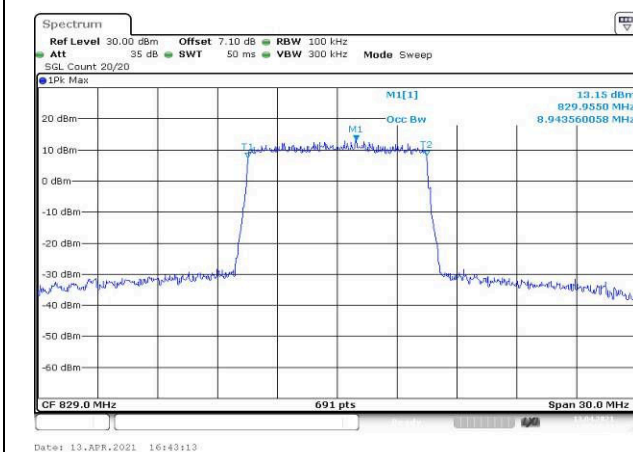


Fig.29

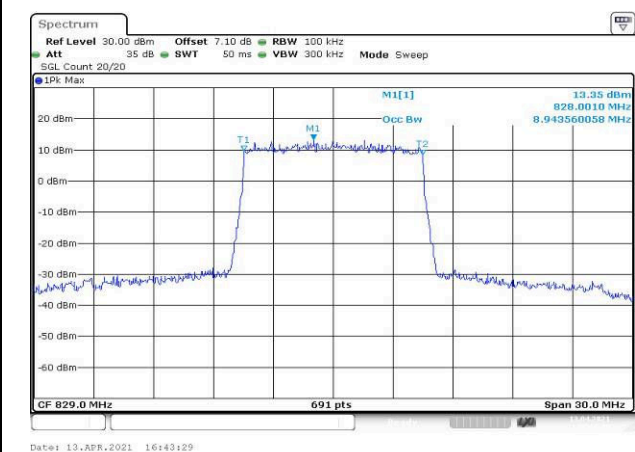
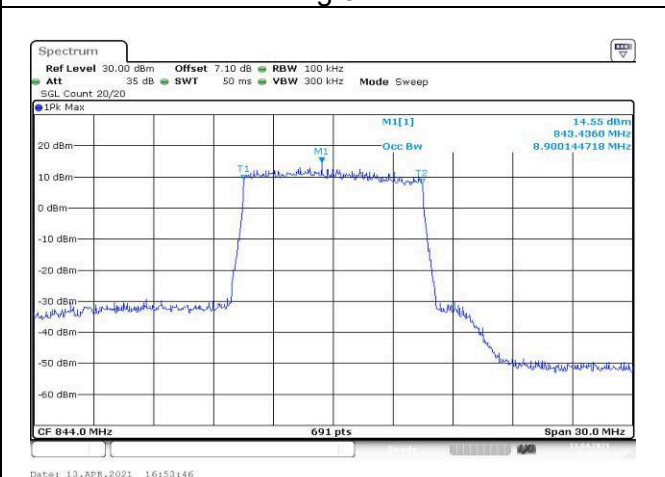
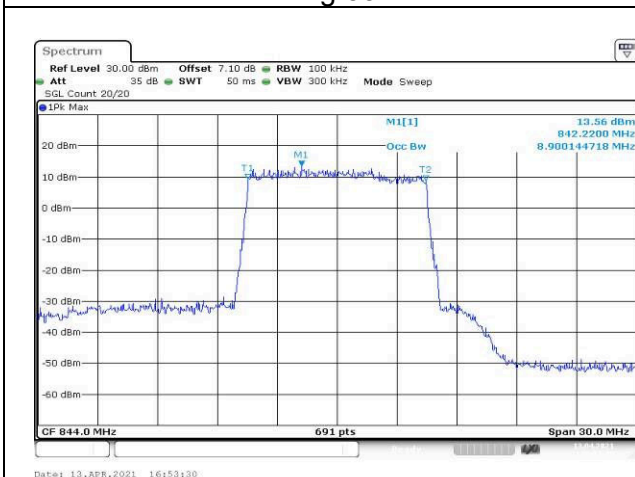
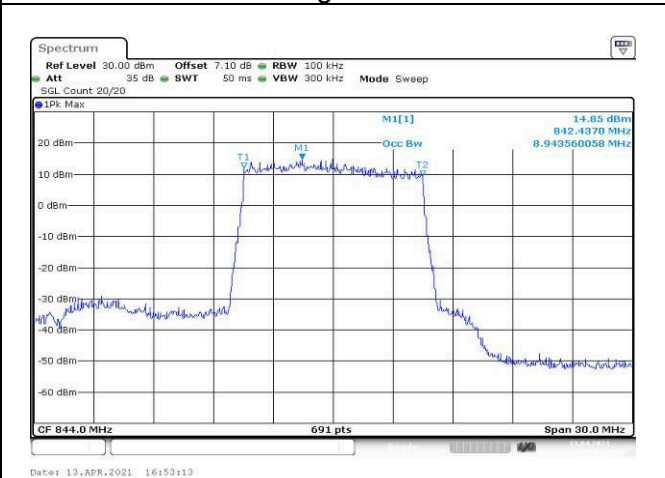
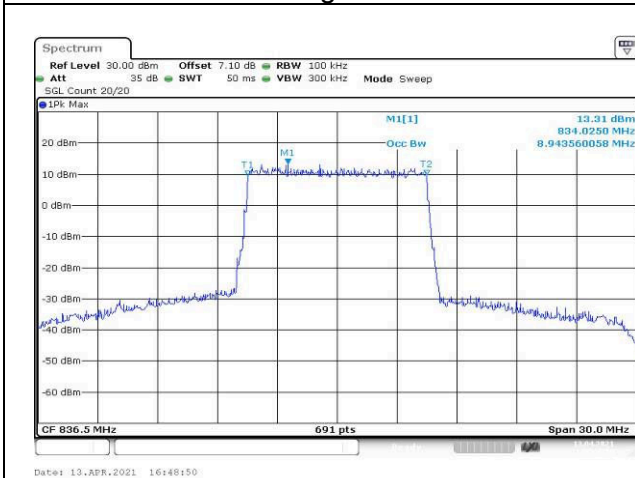
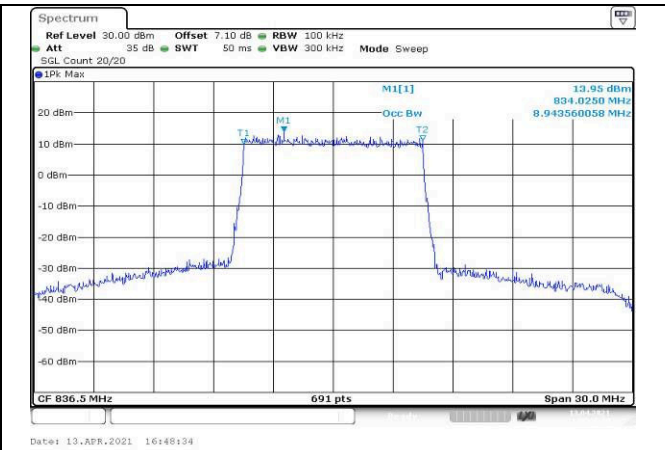
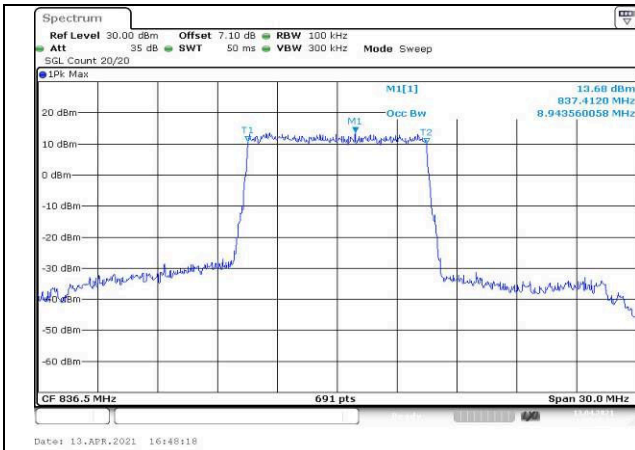


Fig.30



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	1.210	Fig.1	1.185	Fig.2	1.228	Fig.3
	836.5	20525		6	0	1.216	Fig.4	1.210	Fig.5	1.216	Fig.6
	848.3	20643		6	0	1.210	Fig.7	1.210	Fig.8	1.210	Fig.9
	825.5	20415	3	15	0	2.944	Fig.10	2.891	Fig.11	2.891	Fig.12
	836.5	20525		15	0	2.931	Fig.13	2.931	Fig.14	2.931	Fig.15
	847.5	20635		15	0	2.931	Fig.16	2.918	Fig.17	2.891	Fig.18
	826.5	20425	5	25	0	4.841	Fig.19	4.884	Fig.20	4.819	Fig.21
	836.5	20525		25	0	4.863	Fig.22	4.841	Fig.23	4.863	Fig.24
	846.5	20625		25	0	4.841	Fig.25	4.884	Fig.26	4.906	Fig.27
	829	20450	10	50	0	9.551	Fig.28	9.595	Fig.29	9.465	Fig.30
	836.5	20525		50	0	9.638	Fig.31	9.638	Fig.32	9.551	Fig.33
	844	20600		50	0	9.595	Fig.34	9.551	Fig.35	9.595	Fig.36

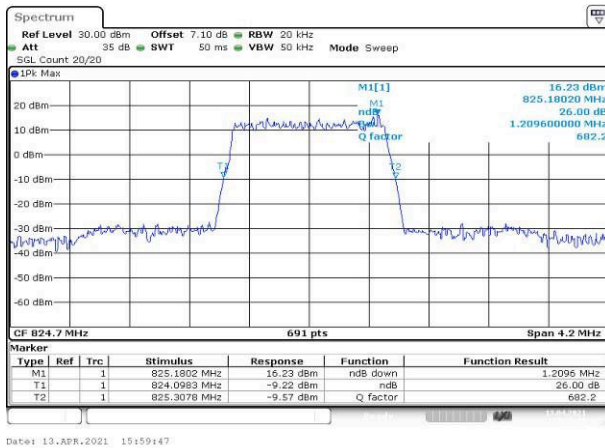


Fig.1

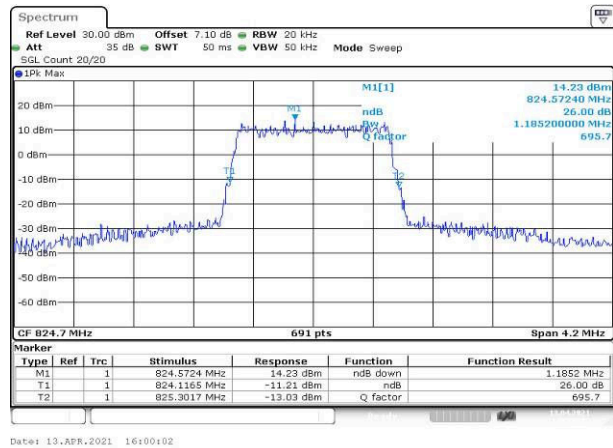


Fig.2

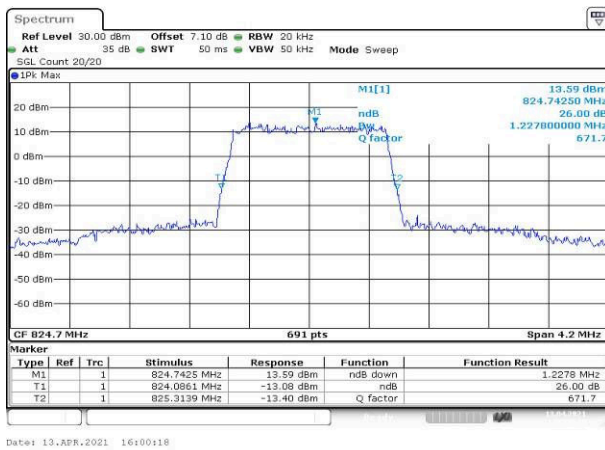


Fig.3

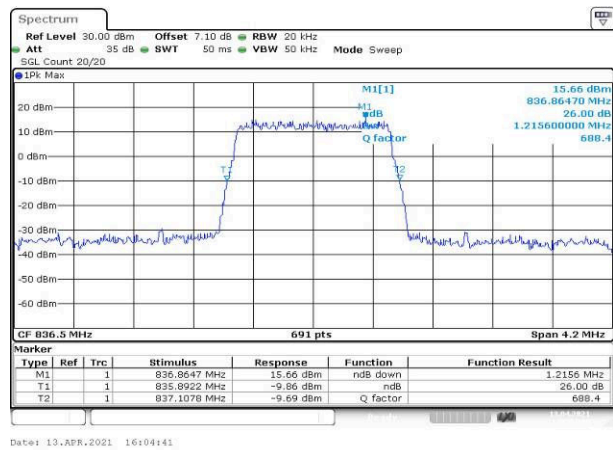


Fig.4

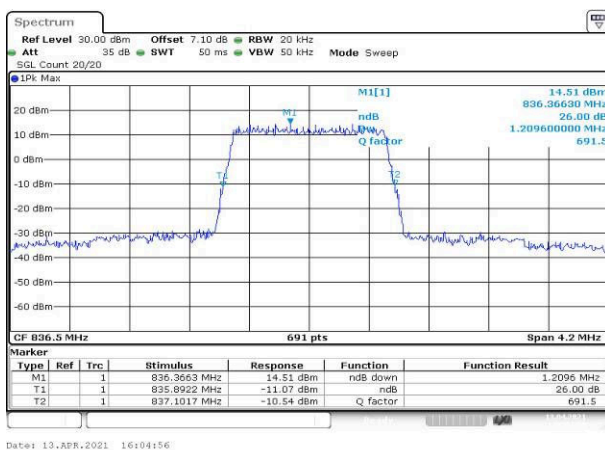


Fig.5

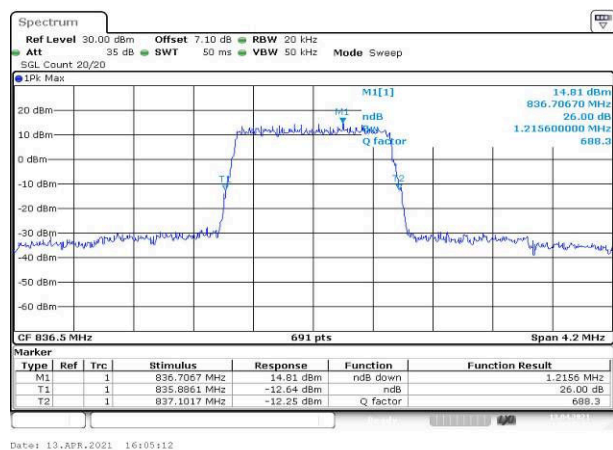
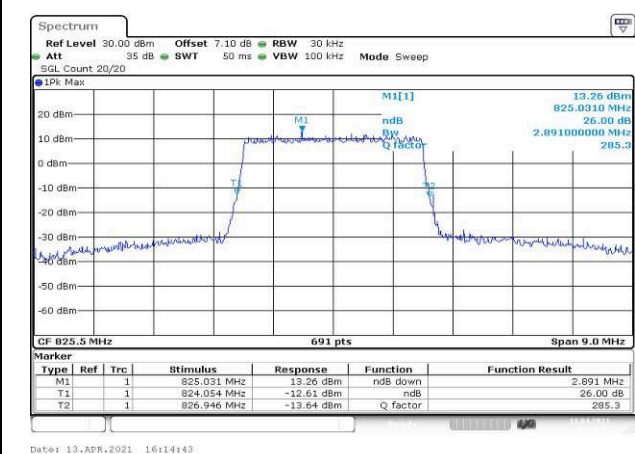
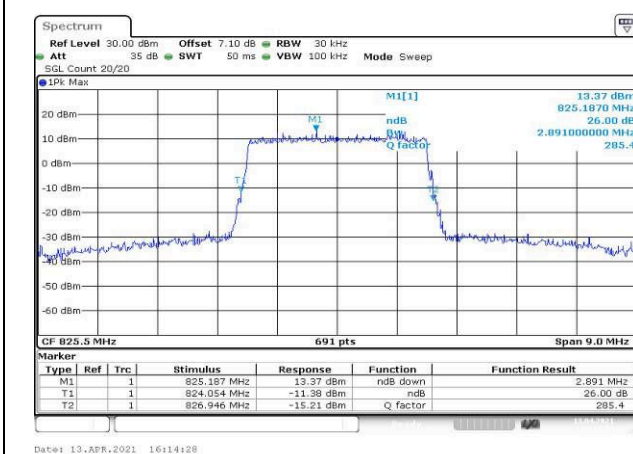
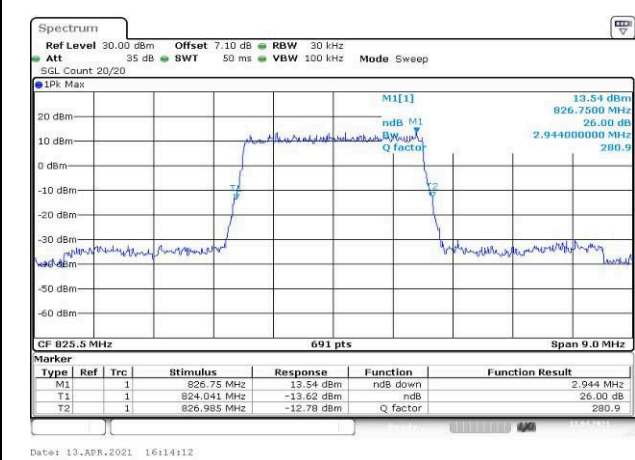
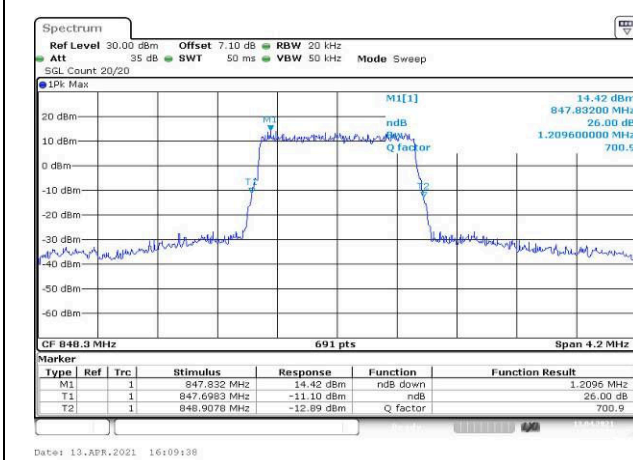
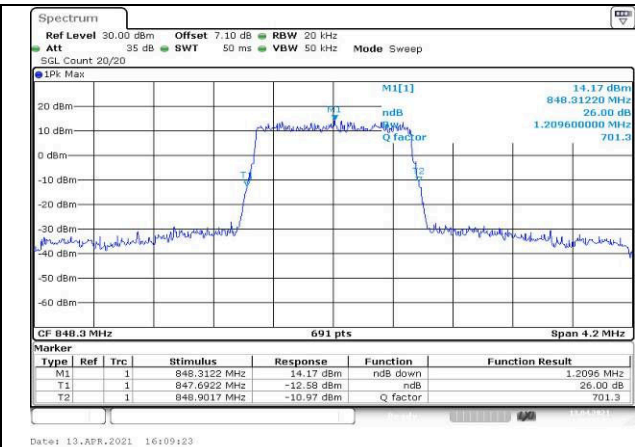
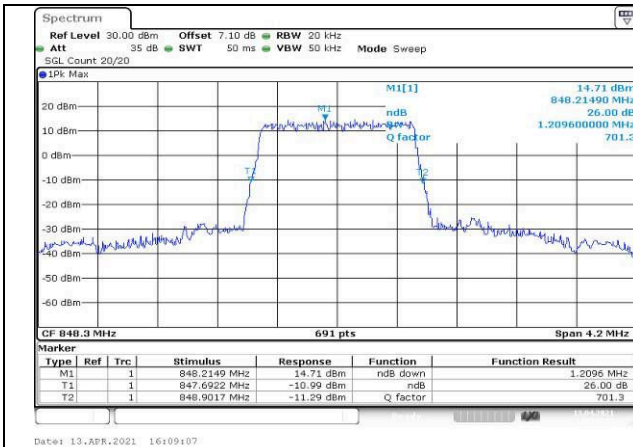


Fig.6



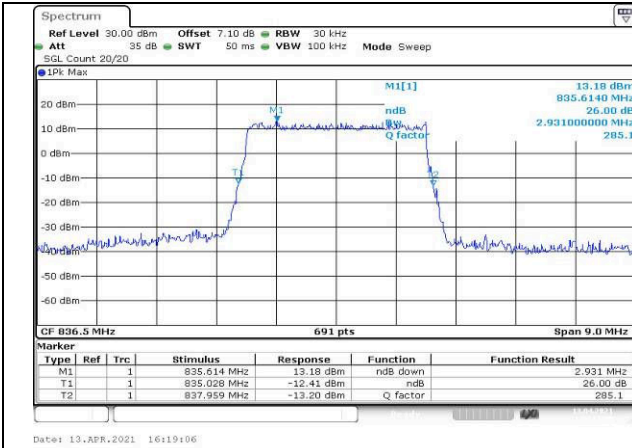


Fig.13

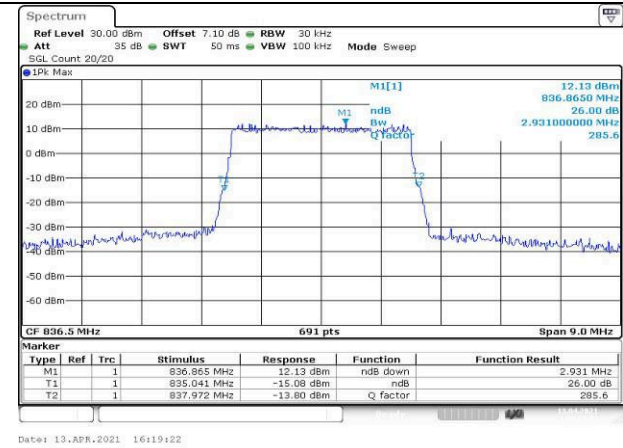


Fig.14

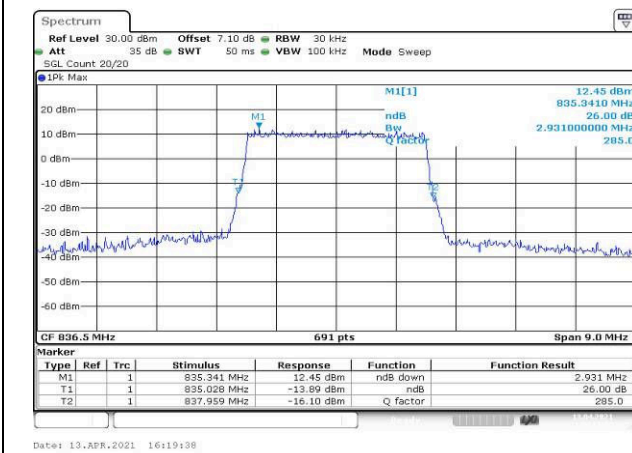


Fig.15

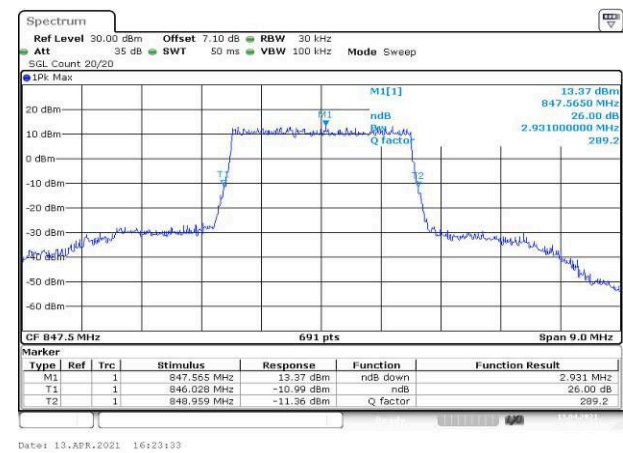


Fig.16

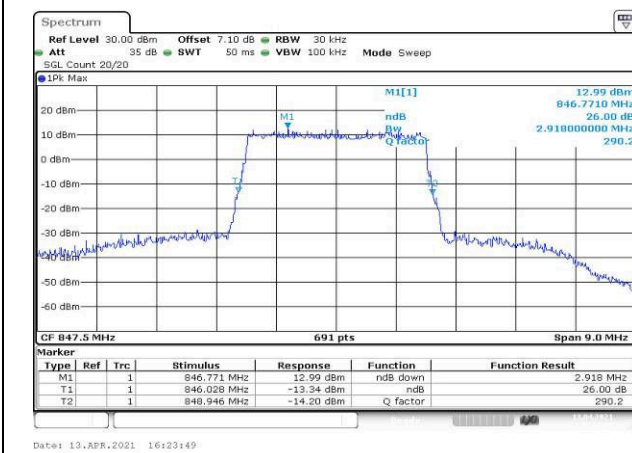


Fig.17

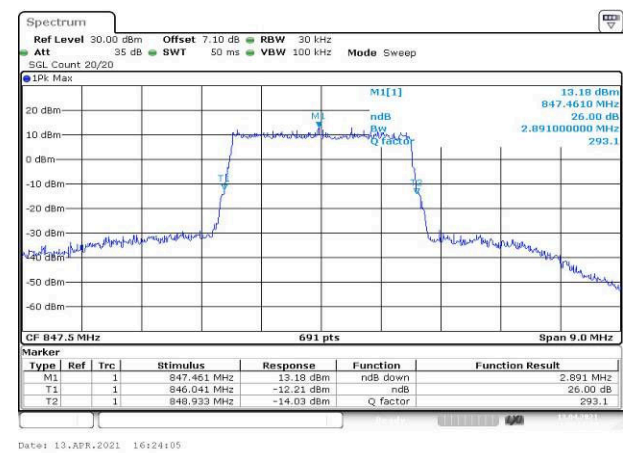
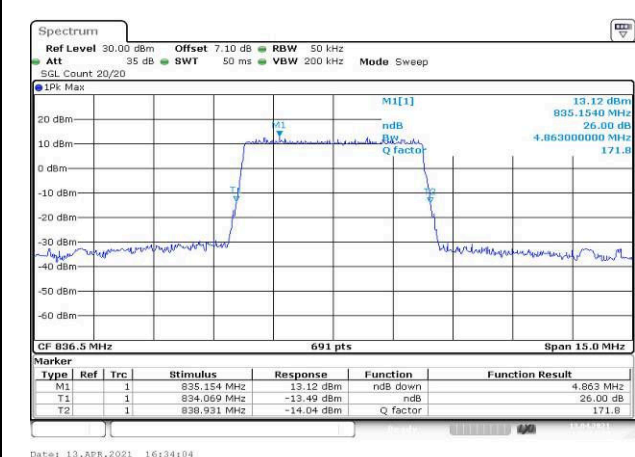
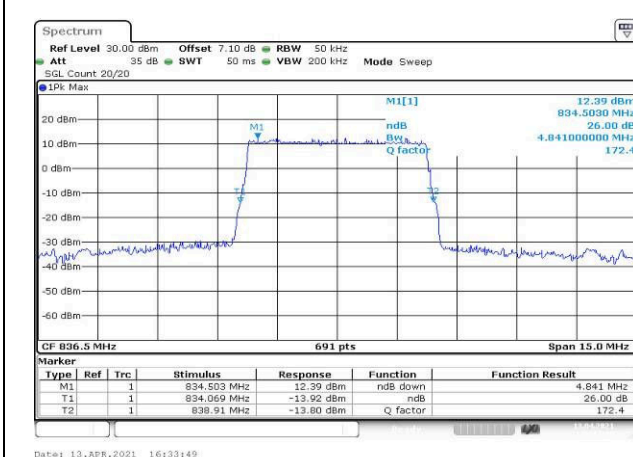
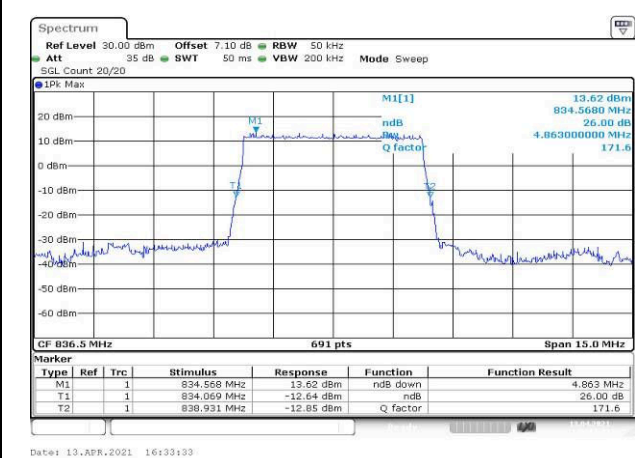
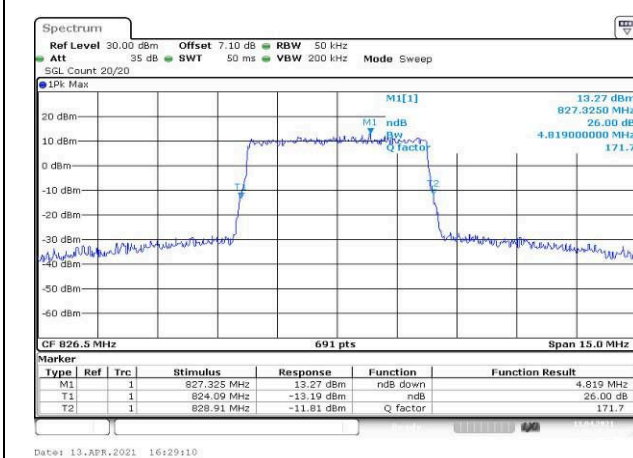
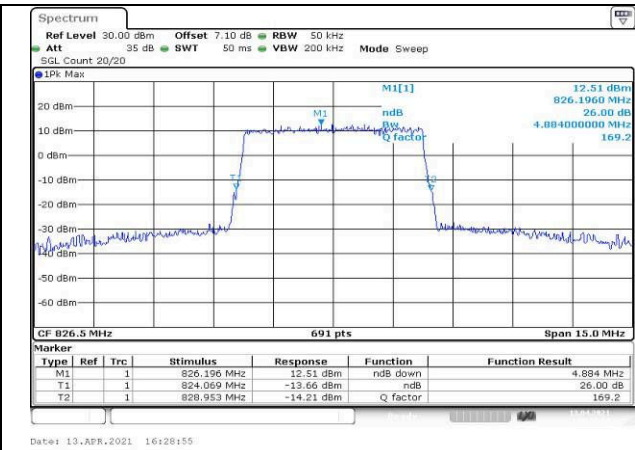
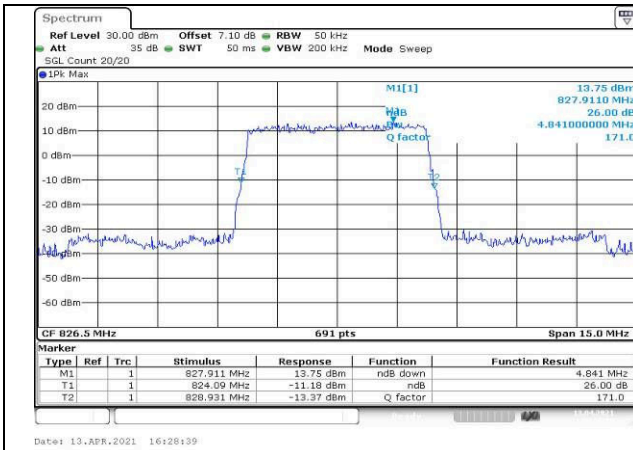


Fig.18



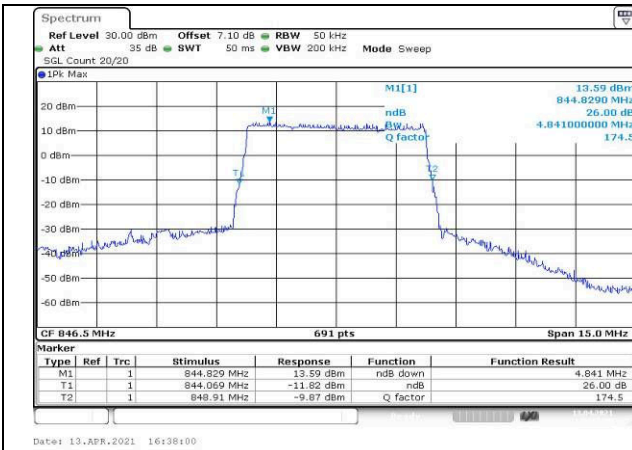


Fig.25

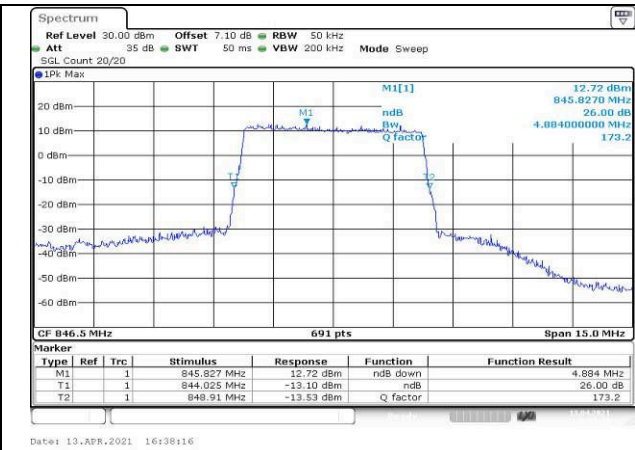


Fig.26

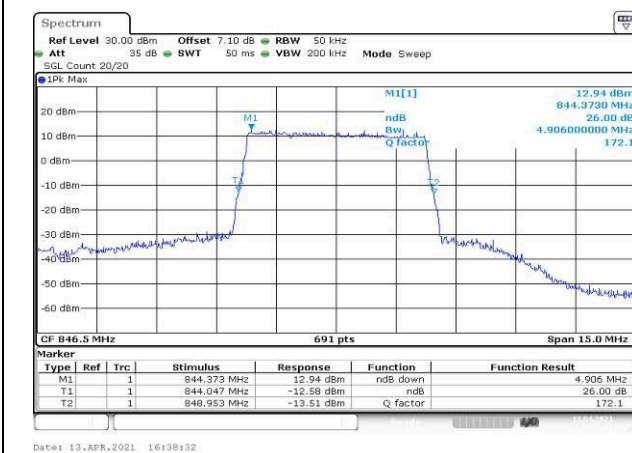


Fig.27

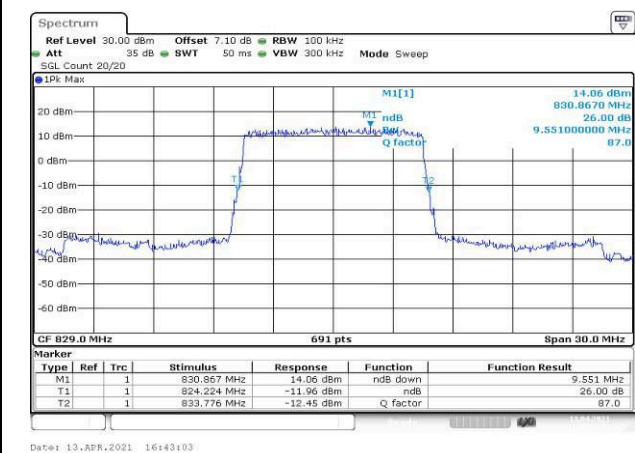


Fig.28

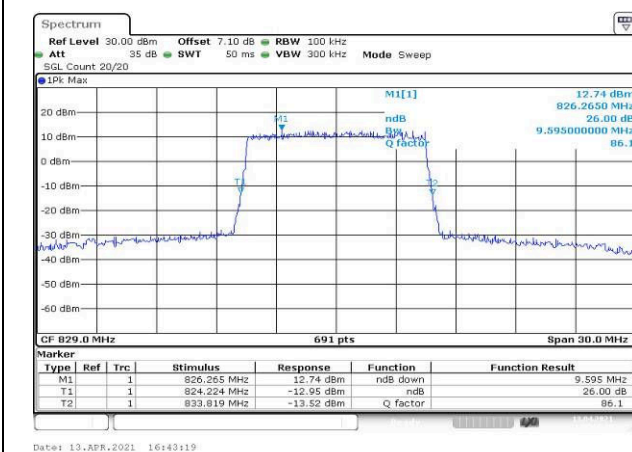


Fig.29

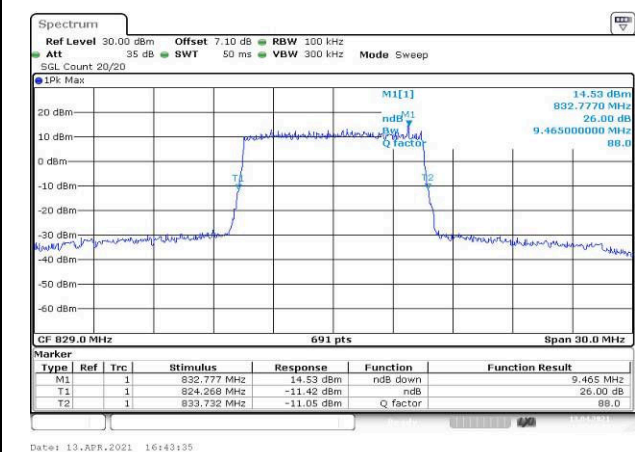


Fig.30

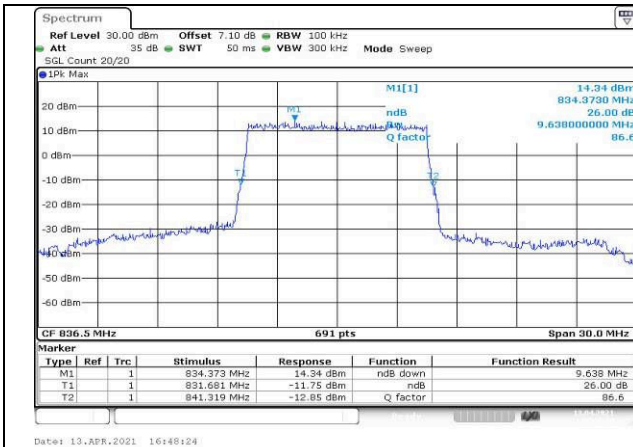


Fig.31

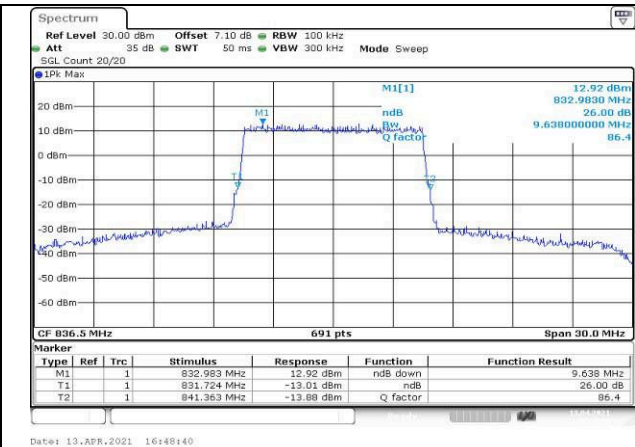


Fig.32

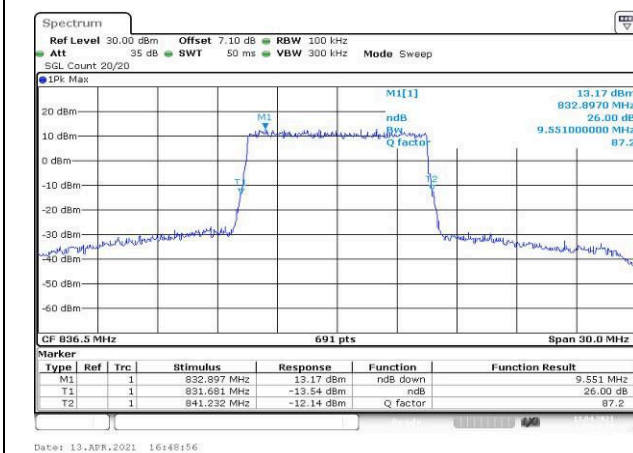


Fig.33

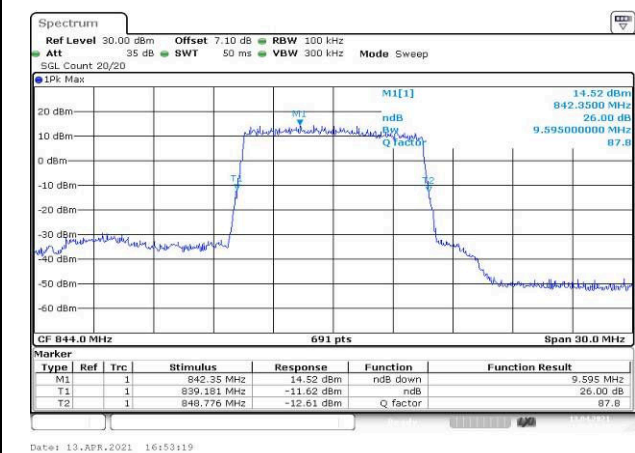


Fig.34

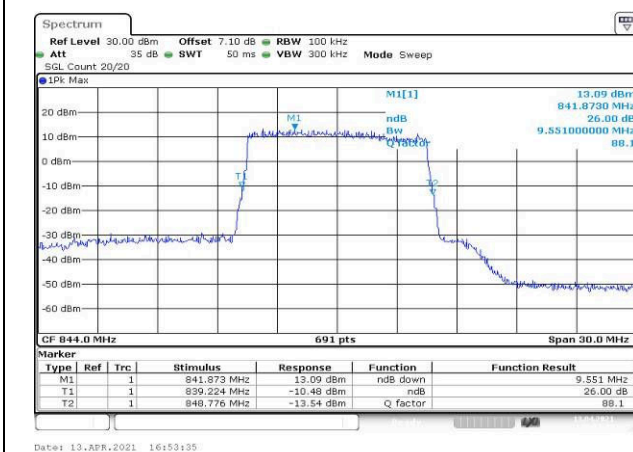


Fig.35

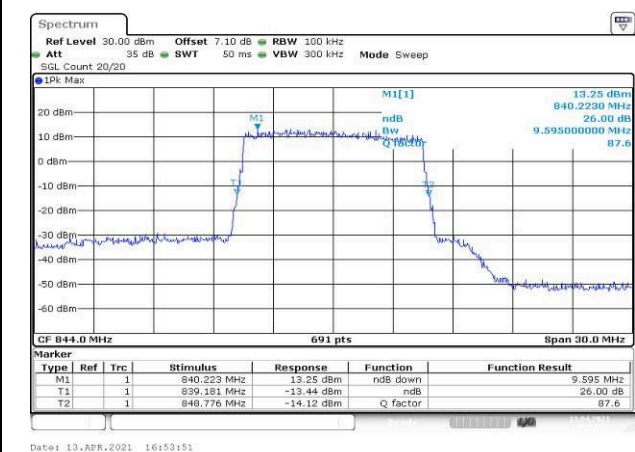


Fig.36

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

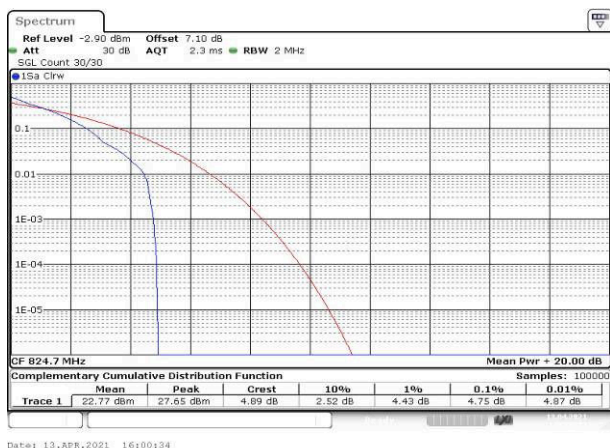


Fig.1

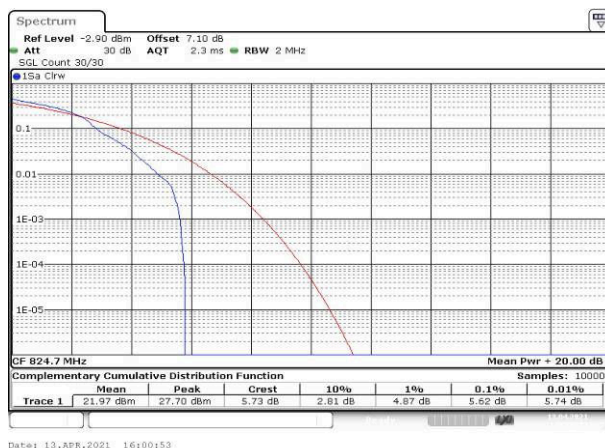


Fig.2

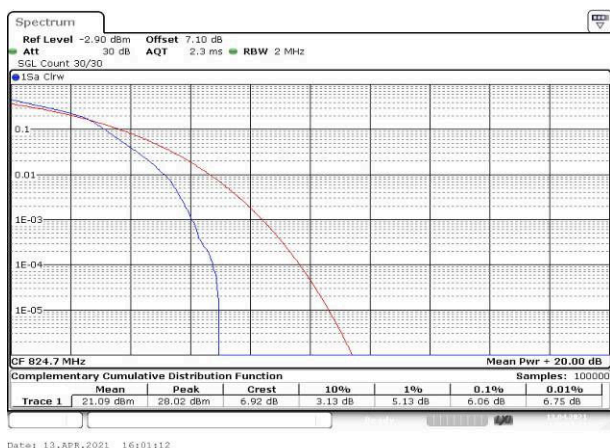


Fig.3

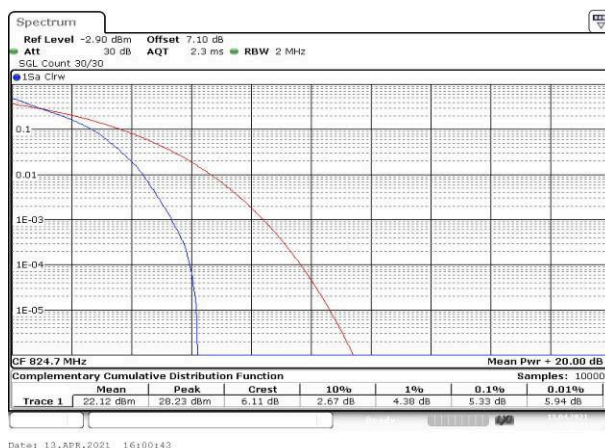


Fig.4

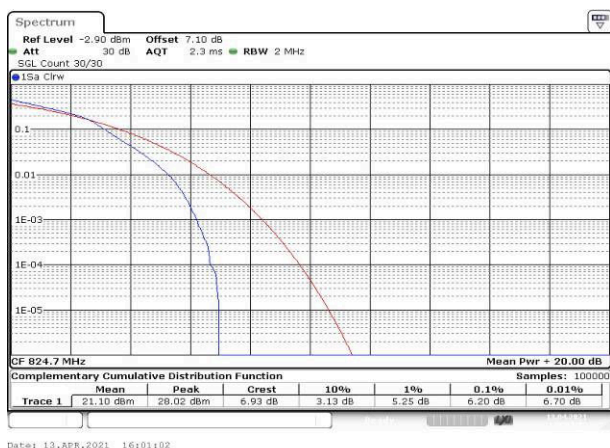


Fig.5

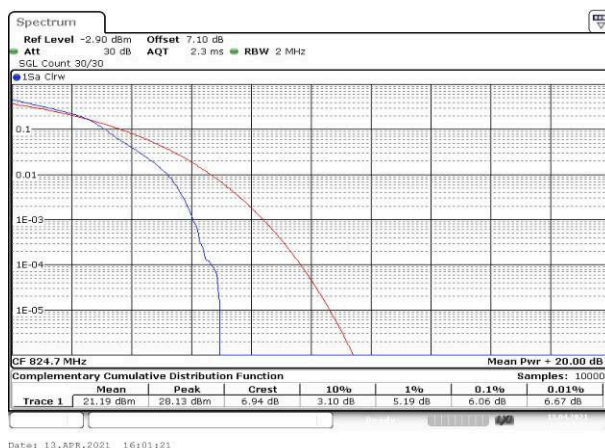


Fig.6