

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Rx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	824.7	20407	1.4	1	0	23.08	
				1	3	23.09	
				1	5	23.16	
				3	0	23.24	
				3	1	23.20	
				3	3	23.28	
	6	0		22.54			
	836.5	20525		1	0	23.34	
				1	3	23.19	
				1	5	23.39	
				3	0	23.46	
				3	1	23.47	
				3	3	23.46	
	6	0		22.95			
	848.3	20643		1	0	23.14	
				1	3	23.30	
				1	5	23.28	
				3	0	23.18	
				3	1	23.29	
				3	3	23.28	
	6	0		22.62			
	16QAM	824.7		20407	1	0	23.41
					1	3	23.42
					1	5	23.06
3			0		22.74		
3			1		22.71		
3			3		22.76		
6		0	21.79				
836.5		20525	1	0	22.80		
			1	3	22.87		
			1	5	22.86		
			3	0	22.85		
			3	1	22.86		
			3	3	22.86		
6		0	22.21				
848.3		20643	1	0	22.25		
			1	3	22.23		
			1	5	22.23		
			3	0	22.53		
			3	1	22.69		
			3	3	22.69		
			6	0	21.91		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	21.92
				1	3	21.92
				1	5	21.98
				3	0	21.79
				3	1	22.09
				3	3	22.05
				6	0	22.04
	836.5	20525		1	0	22.32
				1	3	22.25
				1	5	22.32
				3	0	22.24
				3	1	22.33
				3	3	21.97
				6	0	22.14
	848.3	20643		1	0	22.06
				1	3	21.98
				1	5	22.08
				3	0	21.98
				3	1	22.07
				3	3	22.07
				6	0	22.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.10
				1	8	22.93
				1	14	22.93
				8	0	22.77
				8	4	22.57
				8	7	22.56
				15	0	22.70
	836.5	20525		1	0	23.36
				1	8	23.36
				1	14	23.35
				8	0	22.95
				8	4	22.87
				8	7	22.87
				15	0	22.81
	847.5	20635		1	0	23.15
				1	8	23.32
				1	14	23.28
				8	0	22.62
				8	4	22.62
				8	7	22.61
				15	0	22.52
16QAM	825.5	20415	1	0	23.22	
			1	8	23.09	
			1	14	22.89	
			8	0	22.08	
			8	4	21.85	
			8	7	21.85	
			15	0	21.93	
	836.5	20525	1	0	22.86	
			1	8	22.89	
			1	14	22.83	
			8	0	22.10	
			8	4	22.18	
			8	7	22.18	
			15	0	22.08	
	847.5	20635	1	0	22.41	
			1	8	22.40	
			1	14	22.47	
			8	0	21.86	
			8	4	21.91	
			8	7	21.96	
			15	0	21.78	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	21.98
				1	8	21.93
				1	14	22.03
				8	0	22.03
				8	4	21.87
				8	7	22.03
				15	0	21.98
	836.5	20525		1	0	22.07
				1	8	22.08
				1	14	22.08
				8	0	22.08
				8	4	22.08
				8	7	22.08
				15	0	22.07
	847.5	20635		1	0	21.78
				1	8	21.67
				1	14	21.68
				8	0	21.62
				8	4	21.62
				8	7	21.62
				15	0	21.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.35
				1	12	23.10
				1	24	23.08
				12	0	22.75
				12	7	22.65
				12	13	22.65
				25	0	22.54
	836.5	20525		1	0	23.51
				1	12	23.60
				1	24	23.64
				12	0	22.91
				12	7	22.93
				12	13	22.93
				25	0	22.85
	846.5	20625		1	0	23.12
				1	12	23.15
				1	24	23.06
				12	0	22.76
				12	7	22.62
				12	13	22.73
				25	0	22.64
16QAM	826.5	20425		1	0	22.09
				1	12	21.83
				1	24	21.83
				12	0	21.98
				12	7	21.76
				12	13	21.81
				25	0	21.88
	836.5	20525	1	0	23.28	
			1	12	23.28	
			1	24	23.28	
			12	0	22.21	
			12	7	22.19	
			12	13	22.13	
			25	0	22.06	
	846.5	20625	1	0	22.65	
			1	12	22.89	
			1	24	22.79	
			12	0	21.90	
			12	7	21.80	
			12	13	21.80	
			25	0	21.64	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	21.89
				1	12	21.89
				1	24	21.89
				12	0	21.89
				12	7	21.89
				12	13	21.89
				25	0	21.89
	836.5	20525		1	0	22.06
				1	12	22.06
				1	24	22.12
				12	0	22.06
				12	7	22.02
				12	13	22.07
				25	0	22.02
	846.5	20625		1	0	21.65
				1	12	21.65
				1	24	21.65
				12	0	21.65
				12	7	21.65
				12	13	21.66
				25	0	21.65

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	829	20450	10	1	0	23.20	
				1	25	23.38	
				1	49	23.34	
				25	0	22.68	
				25	12	22.80	
				25	25	22.79	
				50	0	22.53	
	836.5	20525		1	0	23.39	
				1	25	23.50	
				1	49	23.49	
				25	0	22.98	
				25	12	22.94	
				25	25	22.94	
				50	0	22.99	
	844	20600		1	0	23.45	
				1	25	23.16	
				1	49	23.15	
				25	0	22.97	
				25	12	22.61	
				25	25	22.61	
				50	0	22.92	
	16QAM	829		20450	1	0	23.15
					1	25	23.28
					1	49	23.27
25					0	21.84	
25					12	22.08	
25					25	22.07	
50					0	21.71	
836.5		20525		1	0	23.09	
				1	25	22.76	
			1	49	22.76		
			25	0	22.09		
			25	12	22.12		
			25	25	22.13		
			50	0	22.12		
844		20600	1	0	22.50		
			1	25	22.32		
			1	49	22.38		
			25	0	22.13		
			25	12	21.97		
			25	25	22.01		
			50	0	22.24		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	21.72
				1	25	21.72
				1	49	21.71
				25	0	21.72
				25	12	21.72
				25	25	21.72
				50	0	21.88
	836.5	20525		1	0	22.20
				1	25	22.21
				1	49	22.18
				25	0	22.19
				25	12	22.05
				25	25	22.17
				50	0	22.16
	844	20600		1	0	22.13
				1	25	22.29
				1	49	22.18
				25	0	22.22
				25	12	22.17
				25	25	22.11
				50	0	22.10

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	1.094	Fig.2	1.088	Fig.3
	836.5	20525		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	848.3	20643		6	0	1.082	Fig.7	1.082	Fig.8	1.088	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	2.683	Fig.14	2.683	Fig.15
	847.5	20635		15	0	2.683	Fig.16	2.683	Fig.17	2.696	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

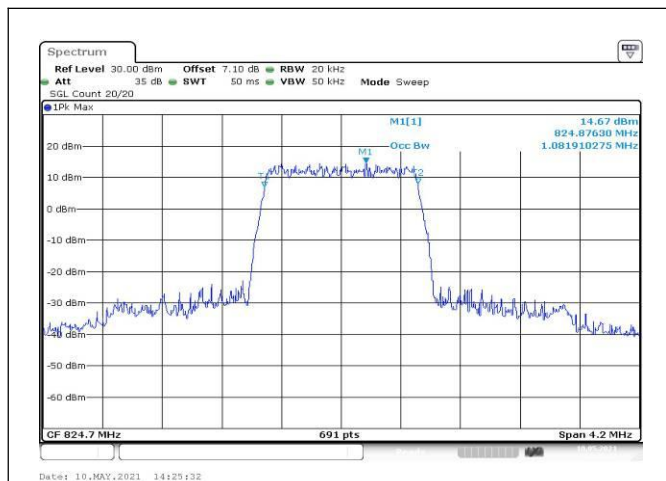


Fig.1

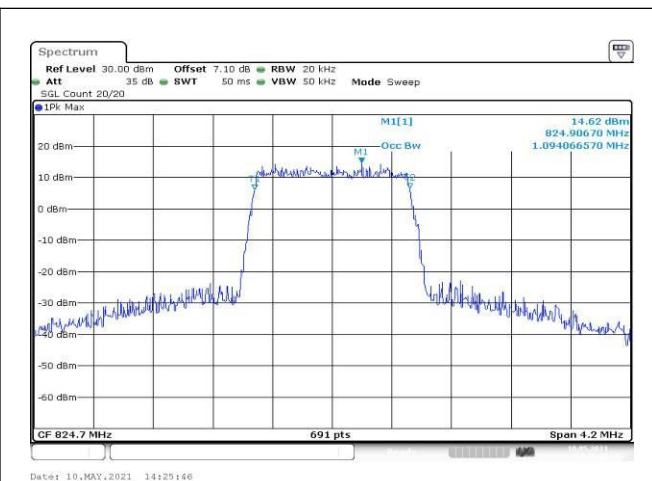


Fig.2

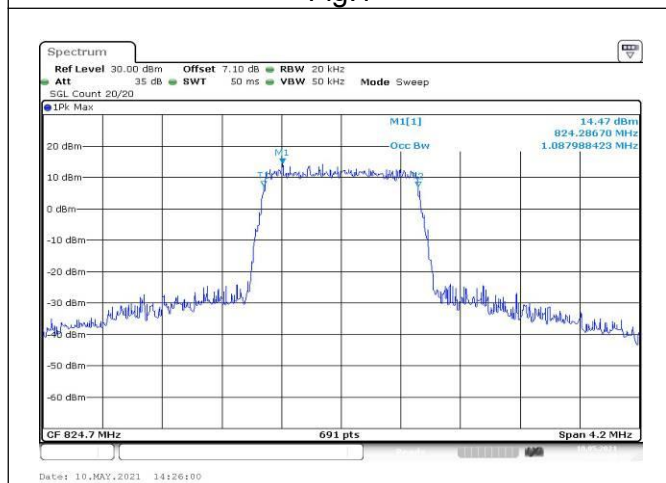


Fig.3

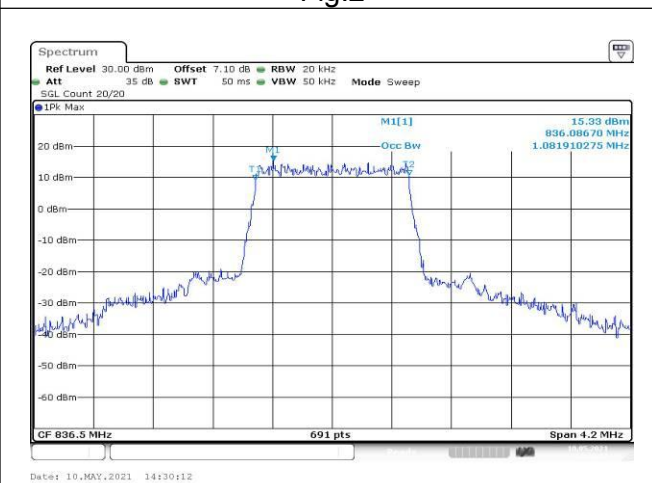


Fig.4

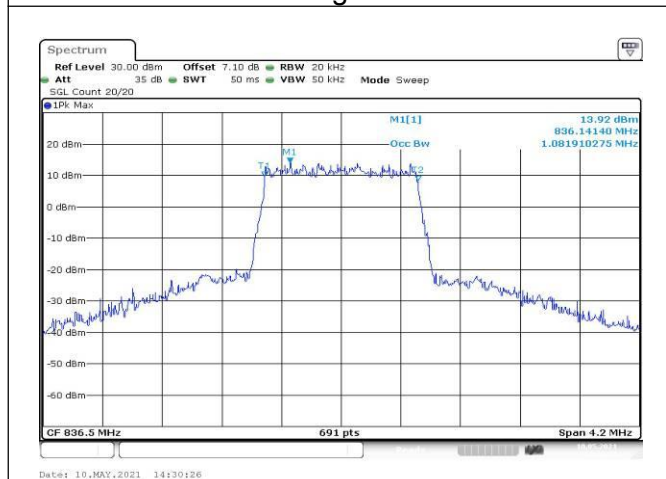


Fig.5

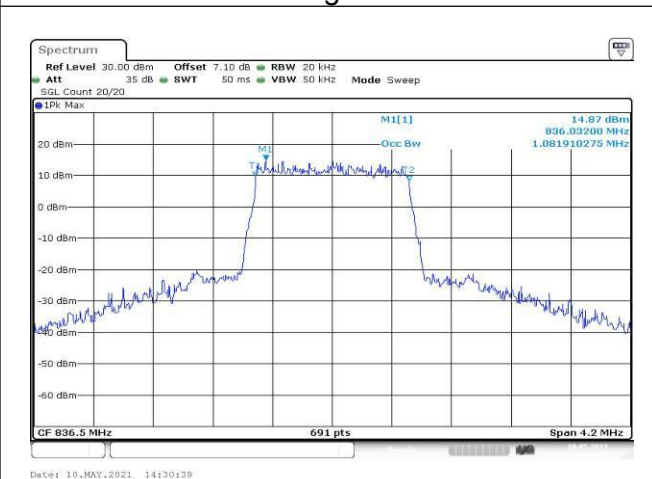


Fig.6

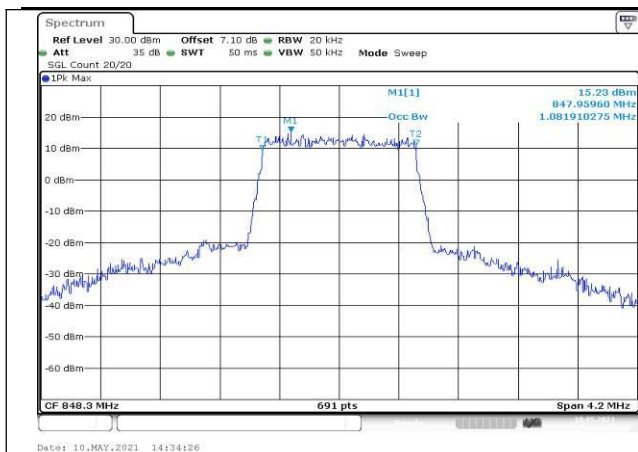


Fig.7

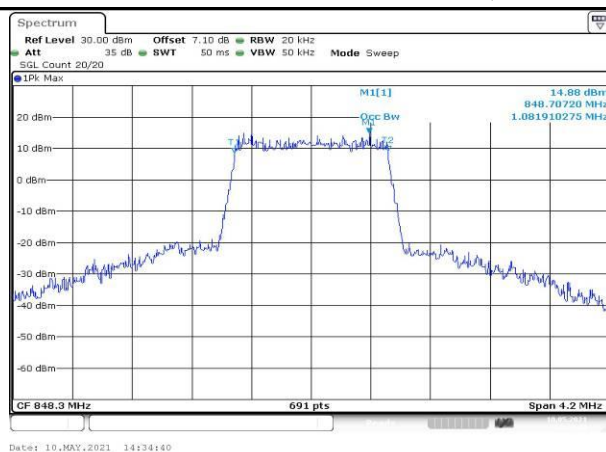


Fig.8

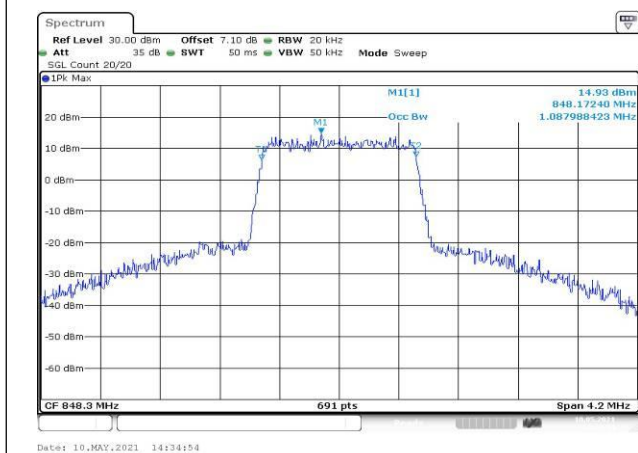


Fig.9

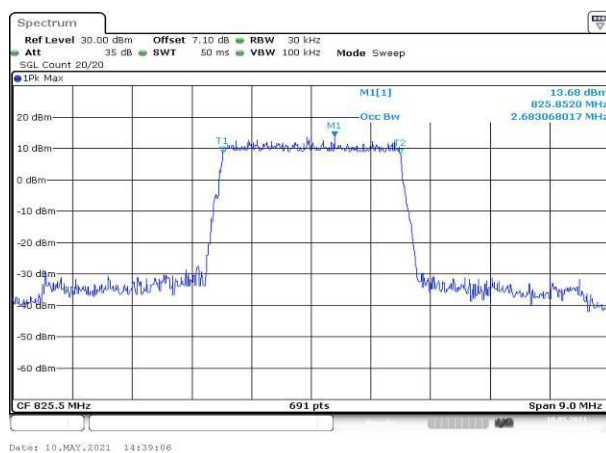


Fig.10

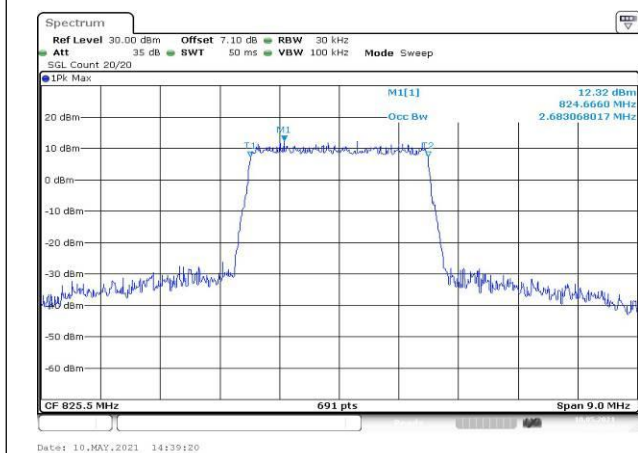


Fig.11

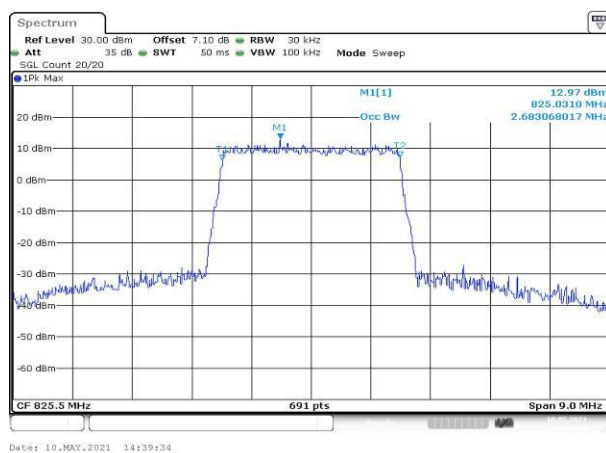
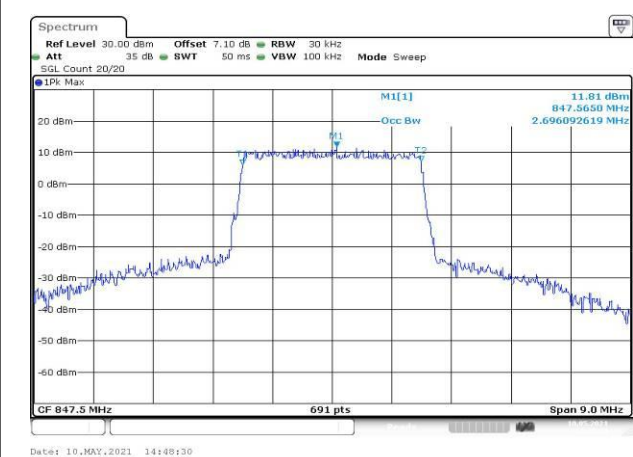
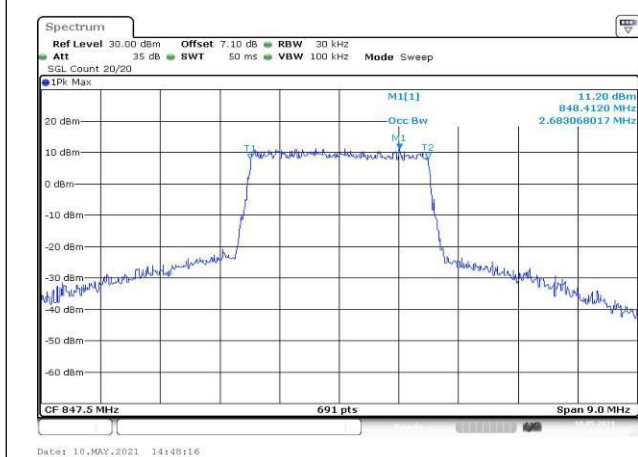
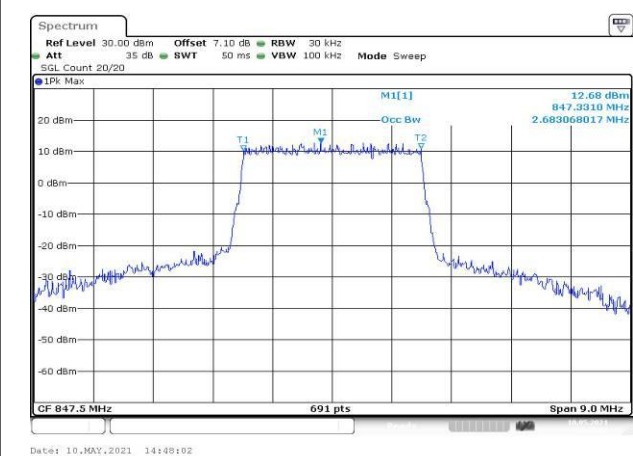
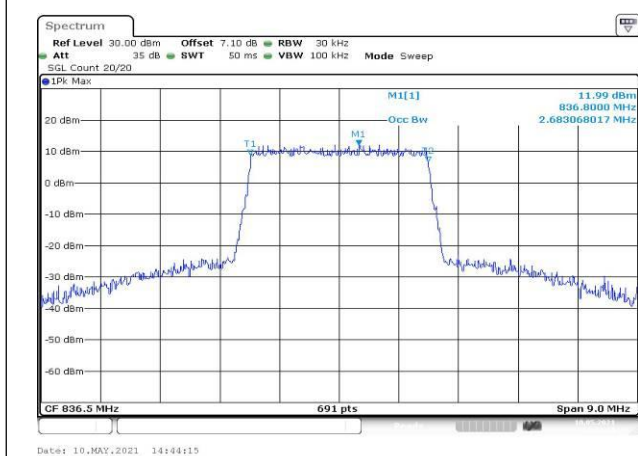
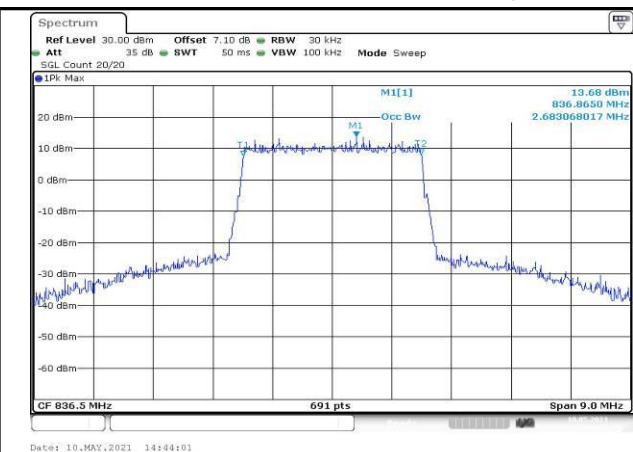
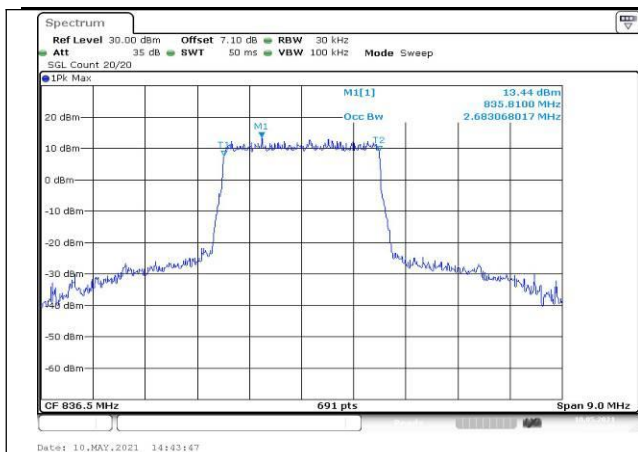


Fig.12



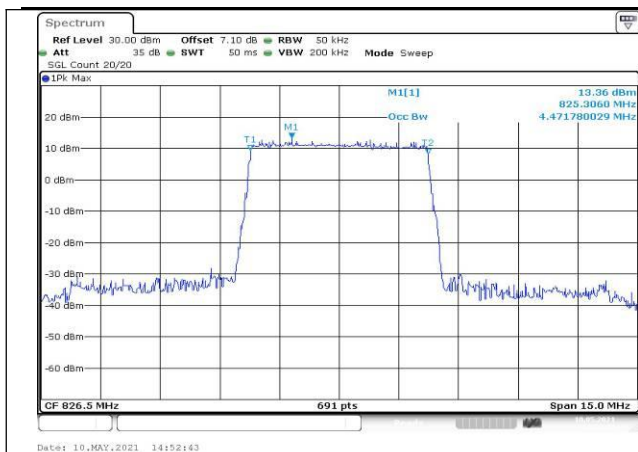


Fig.19

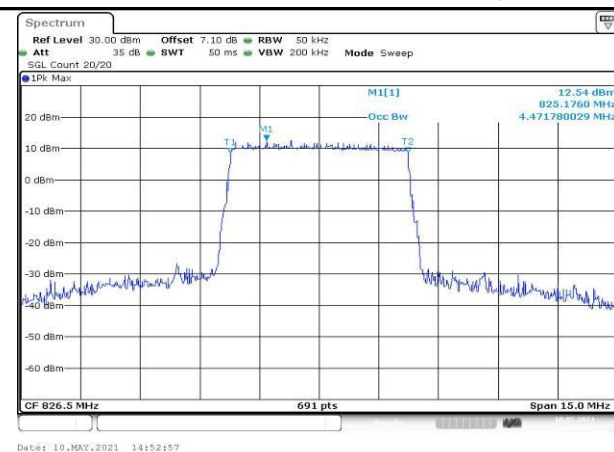


Fig.20

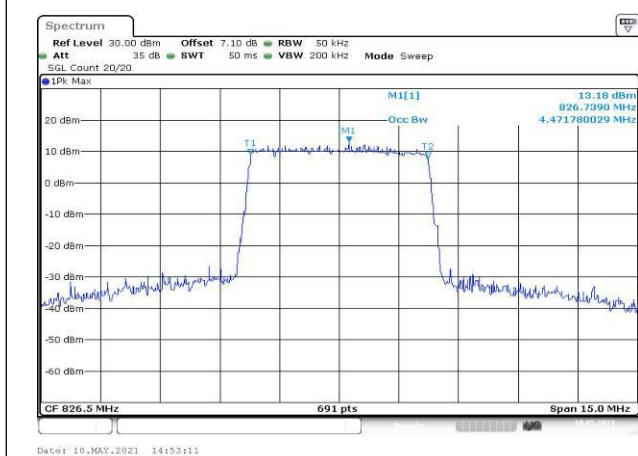


Fig.21

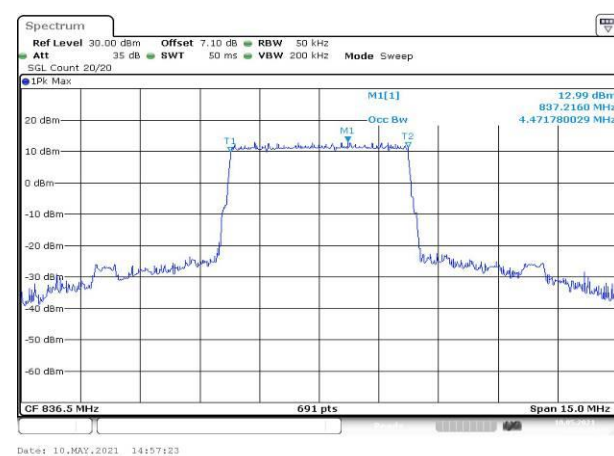


Fig.22

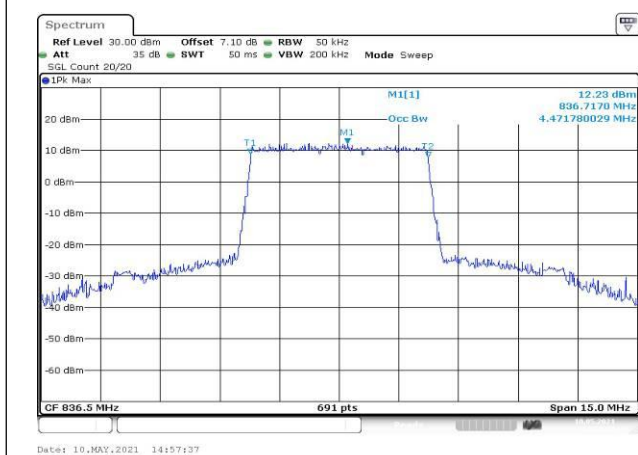


Fig.23

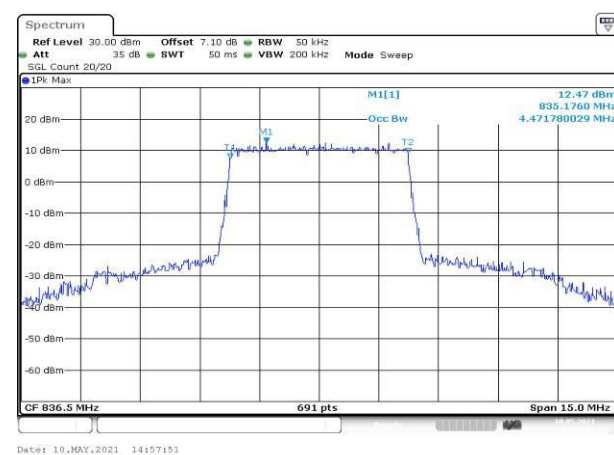


Fig.24

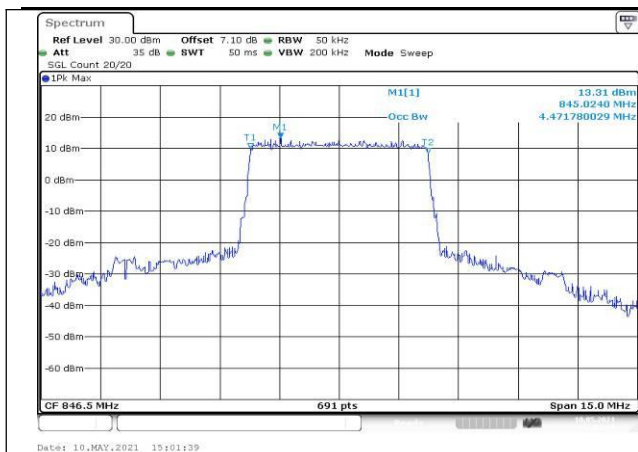


Fig.25



Fig.26

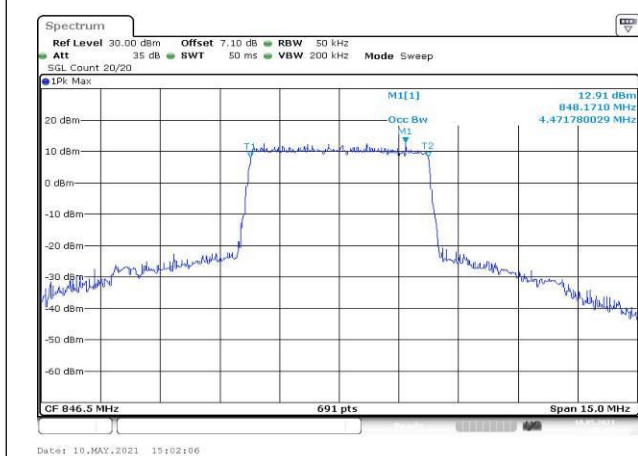


Fig.27

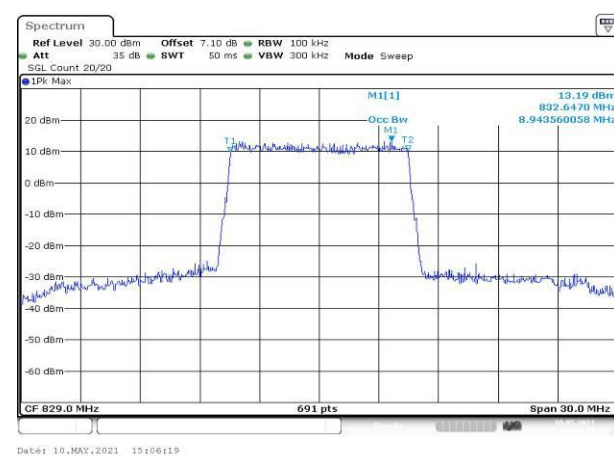


Fig.28

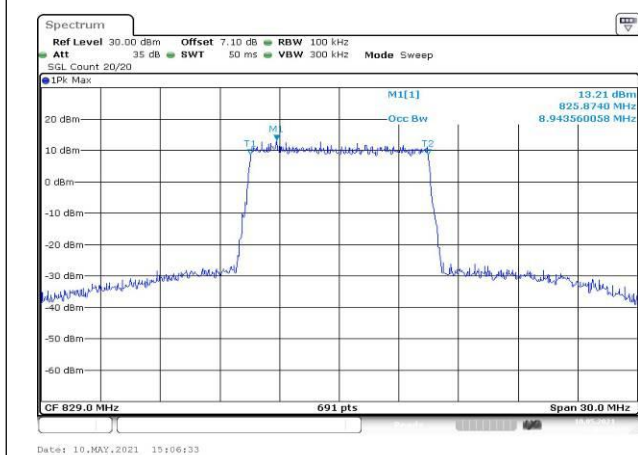


Fig.29

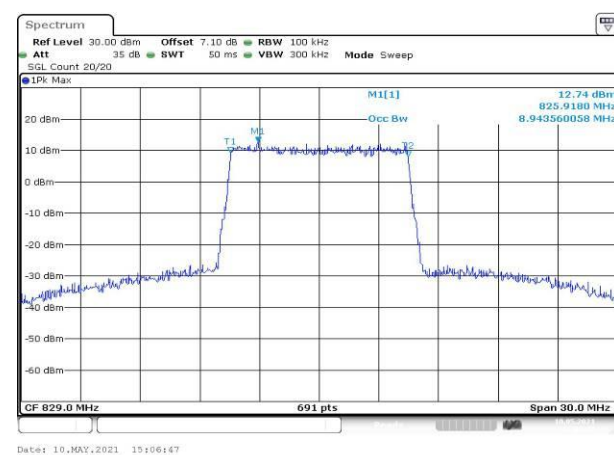


Fig.30

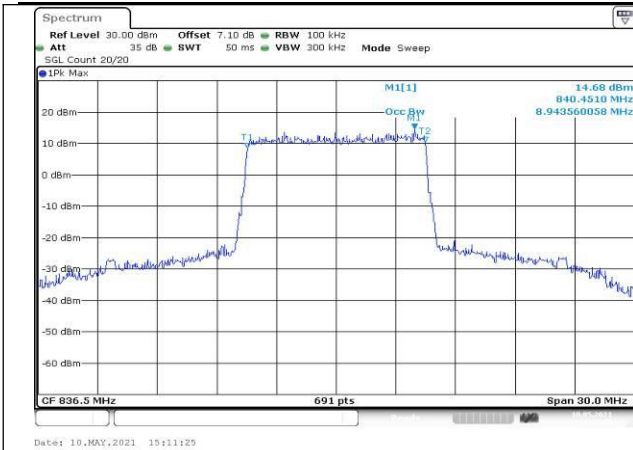


Fig.31

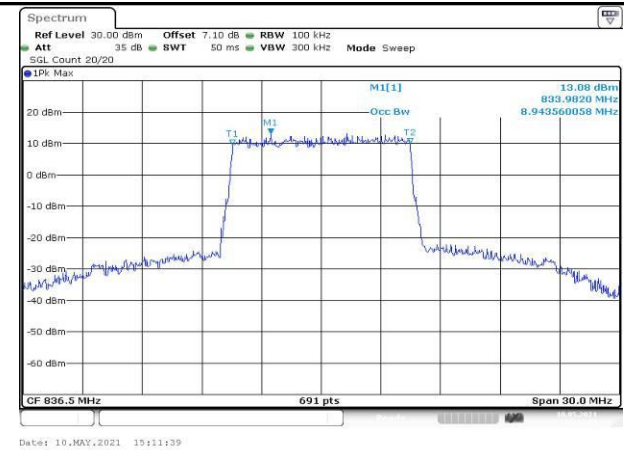


Fig.32

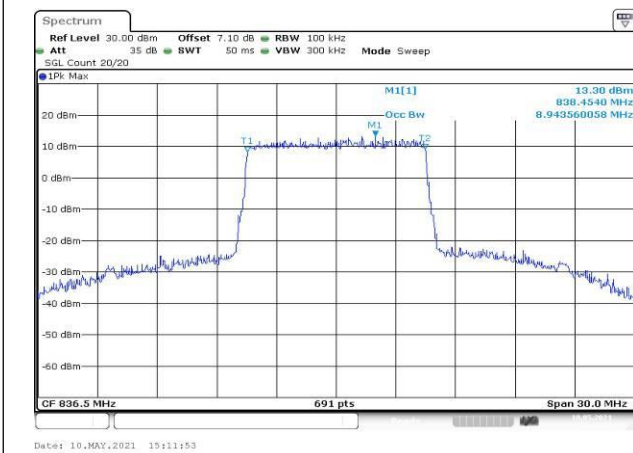


Fig.33

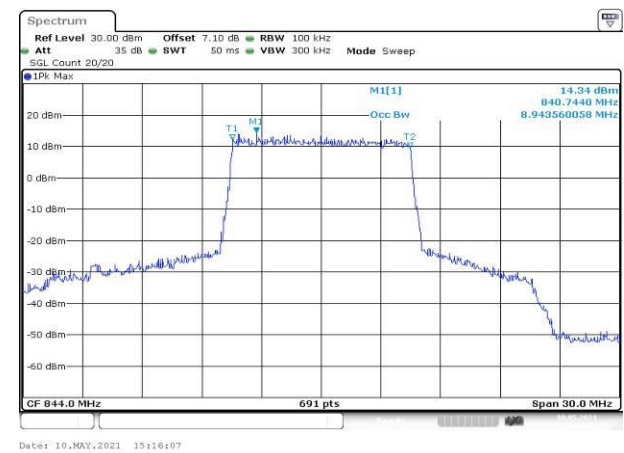


Fig.34

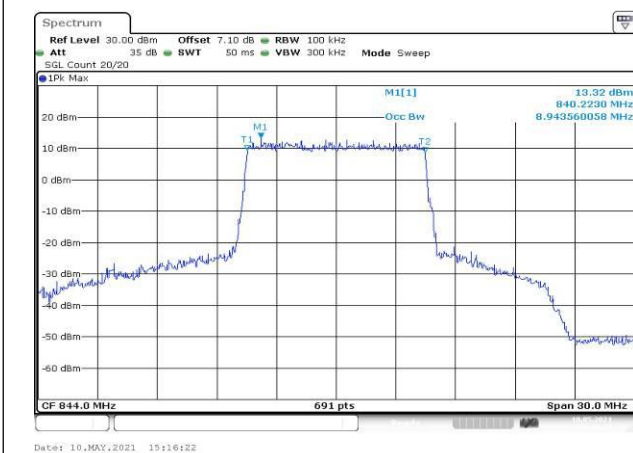


Fig.35

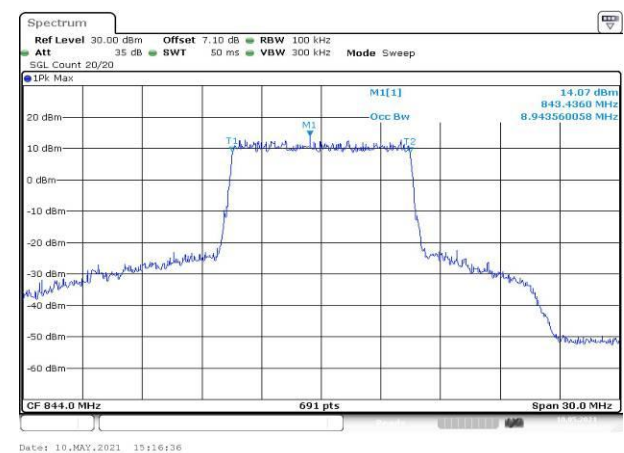


Fig.36

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	1.234	Fig.1	1.228	Fig.2	1.228	Fig.3
	836.5	20525		6	0	1.234	Fig.4	1.228	Fig.5	1.228	Fig.6
	848.3	20643		6	0	1.234	Fig.7	1.222	Fig.8	1.222	Fig.9
	825.5	20415	3	15	0	2.970	Fig.10	2.970	Fig.11	2.970	Fig.12
	836.5	20525		15	0	2.983	Fig.13	2.983	Fig.14	2.970	Fig.15
	847.5	20635		15	0	2.970	Fig.16	3.009	Fig.17	2.996	Fig.18
	826.5	20425	5	25	0	4.906	Fig.19	4.819	Fig.20	4.841	Fig.21
	836.5	20525		25	0	4.884	Fig.22	4.906	Fig.23	4.906	Fig.24
	846.5	20625		25	0	4.863	Fig.25	4.906	Fig.26	4.863	Fig.27
	829	20450	10	50	0	9.682	Fig.28	9.682	Fig.29	9.682	Fig.30
	836.5	20525		50	0	9.682	Fig.31	9.638	Fig.32	9.725	Fig.33
	844	20600		50	0	9.725	Fig.34	9.682	Fig.35	9.725	Fig.36

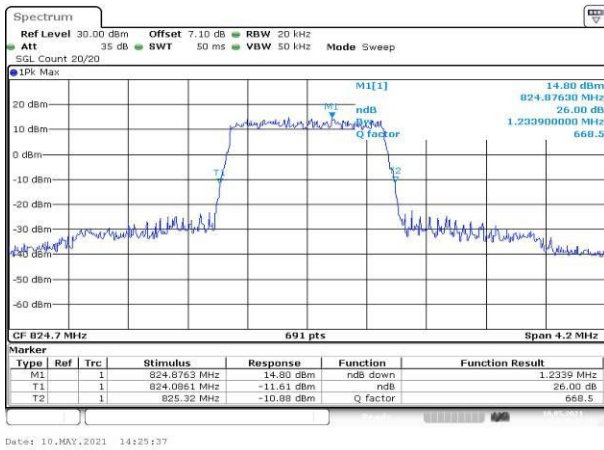


Fig.1

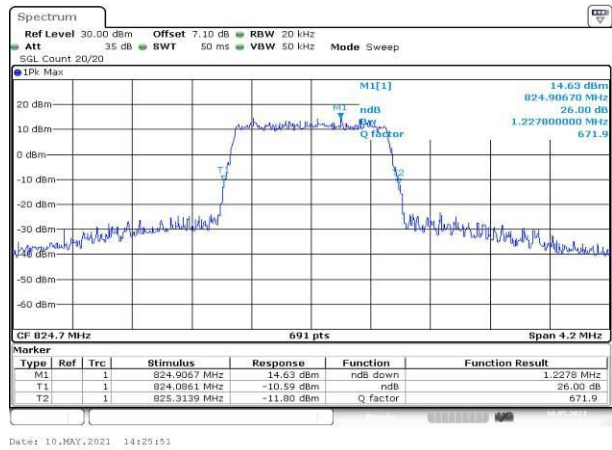


Fig.2

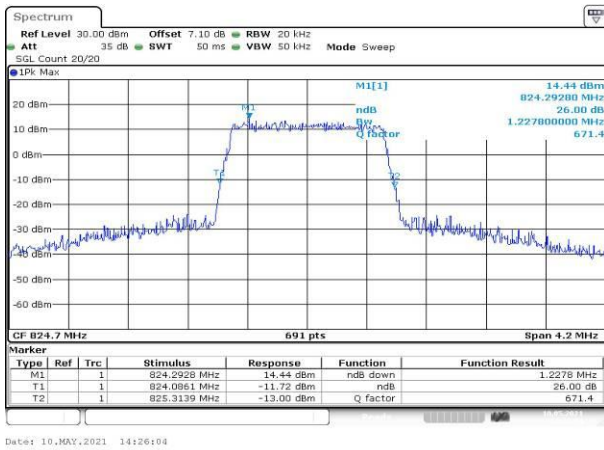


Fig.3

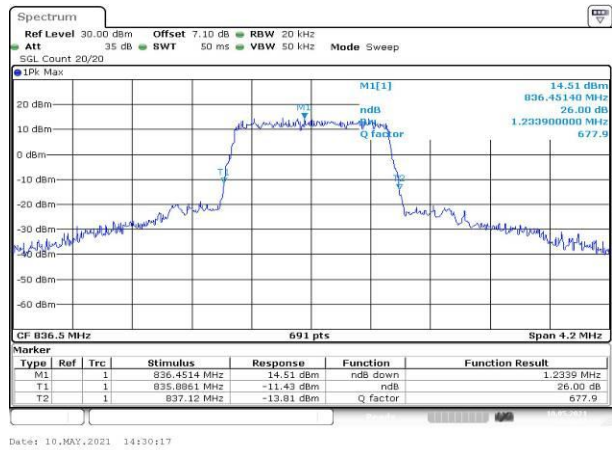


Fig.4

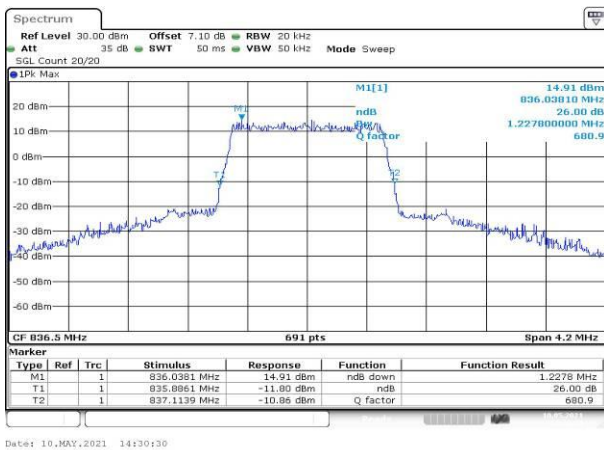


Fig.5

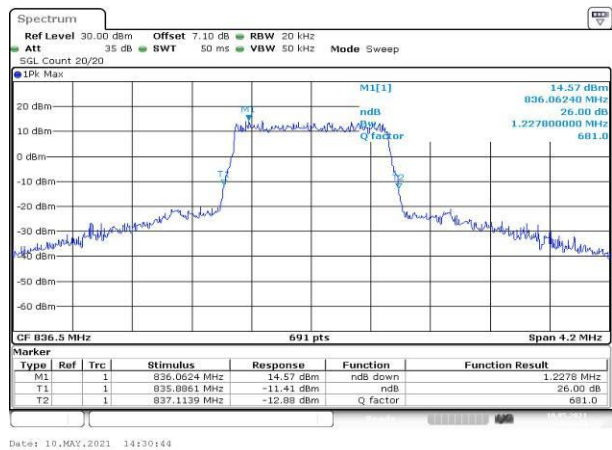
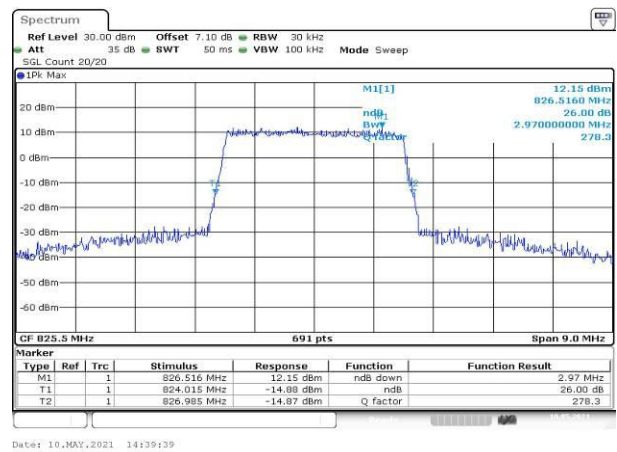
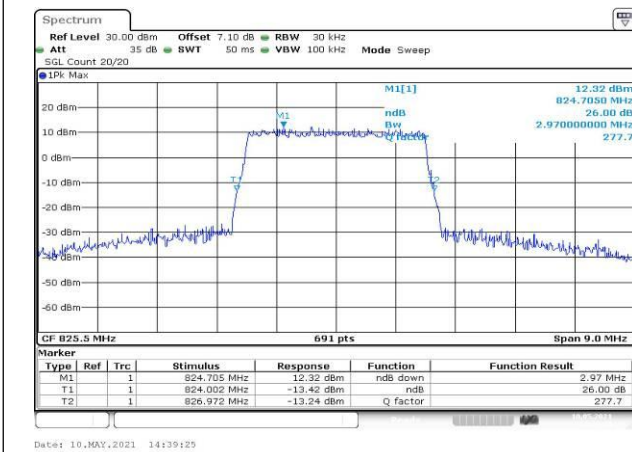
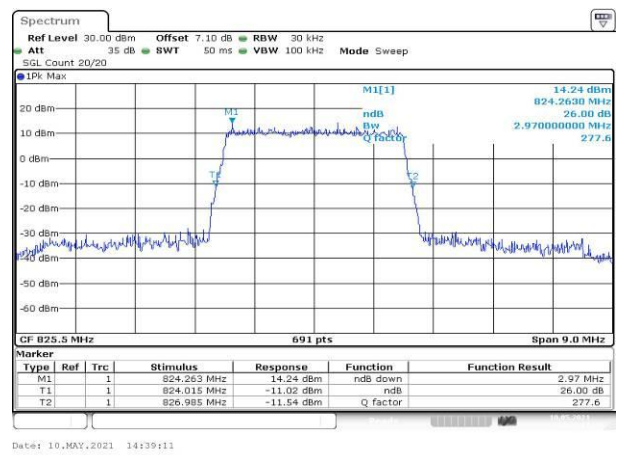
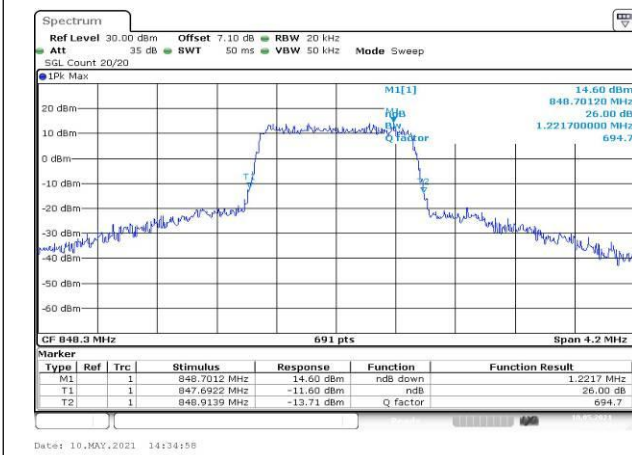
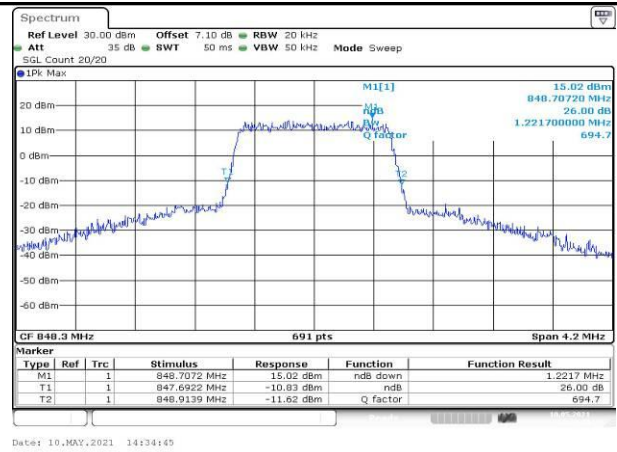
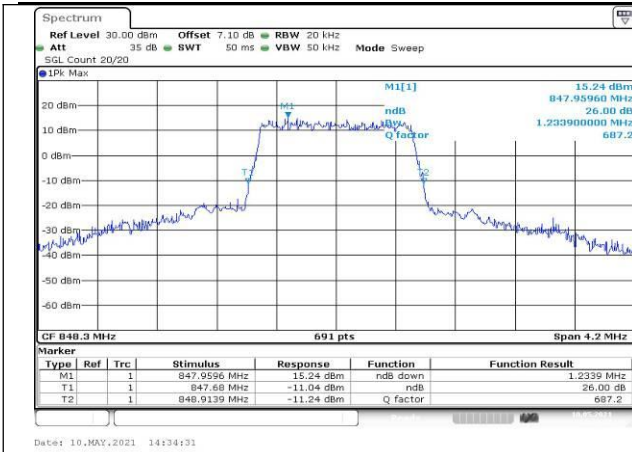


Fig.6



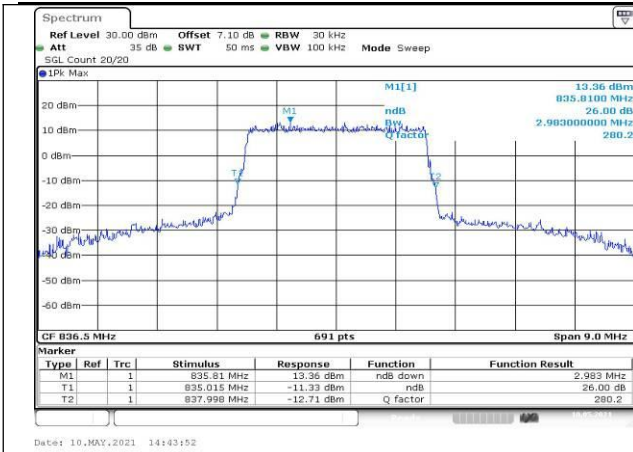


Fig.13

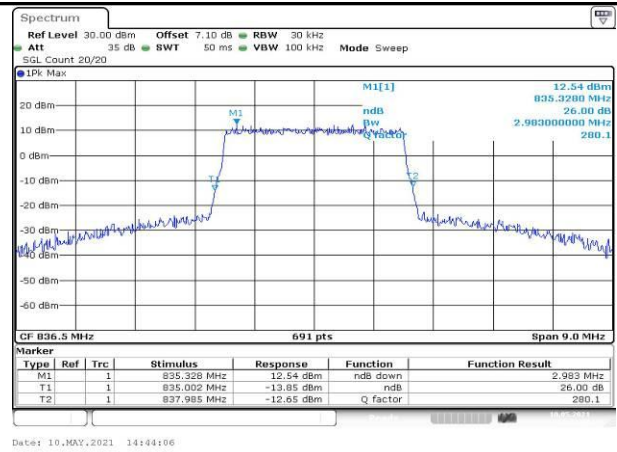


Fig.14

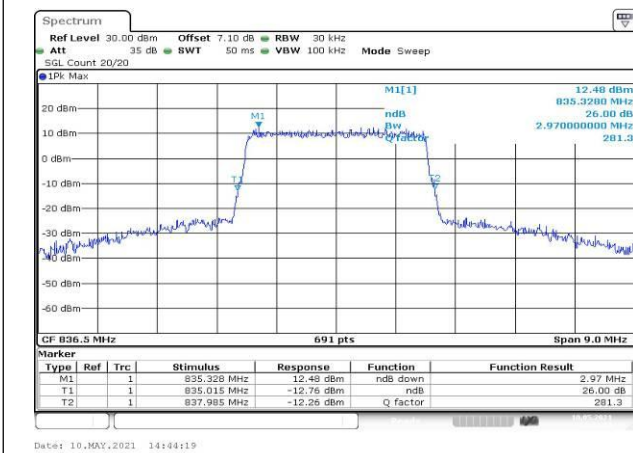


Fig.15

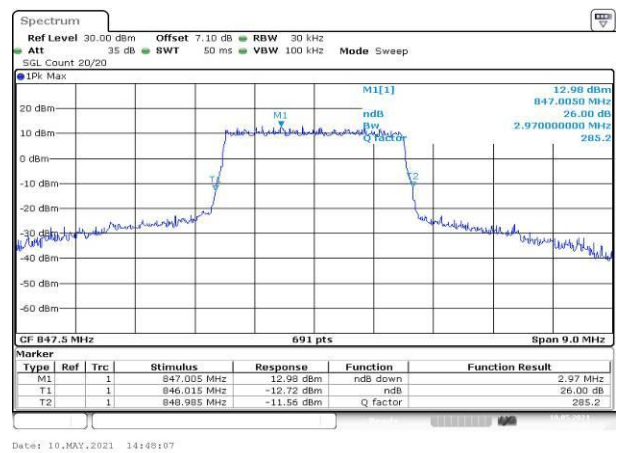


Fig.16

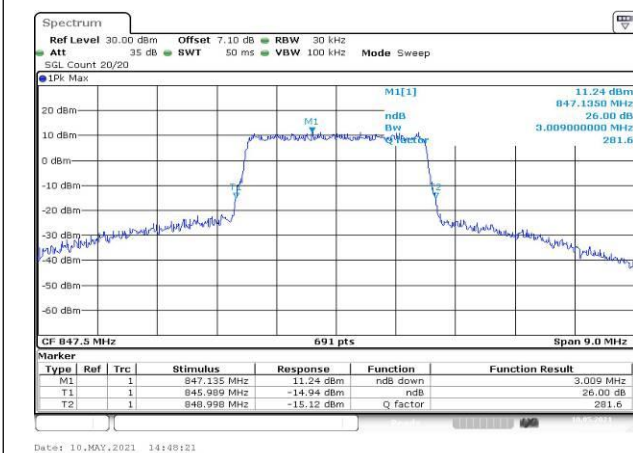


Fig.17

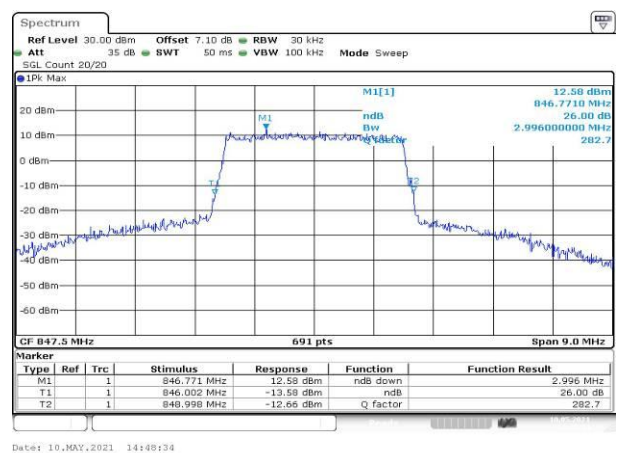


Fig.18

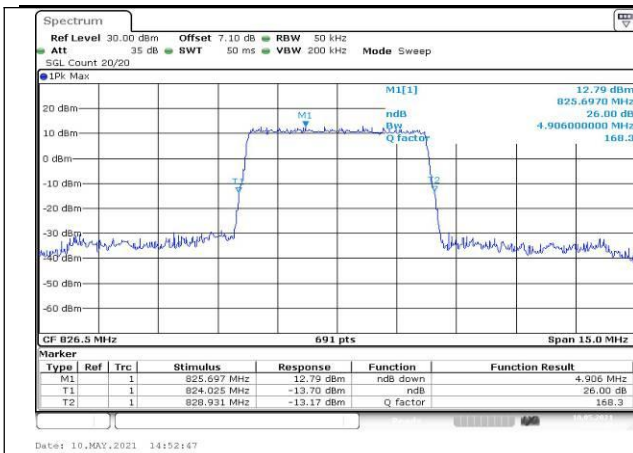


Fig.19

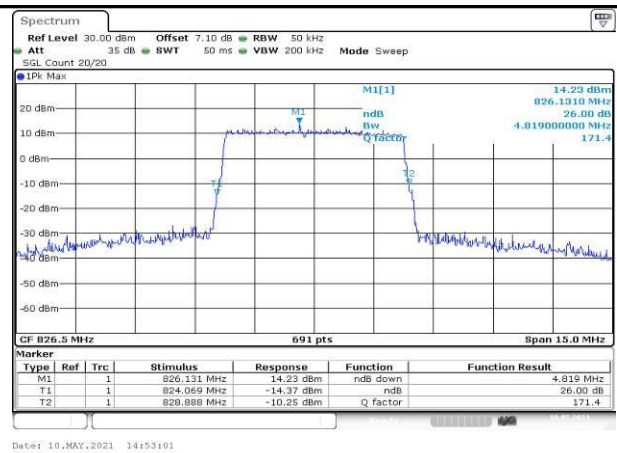


Fig.20

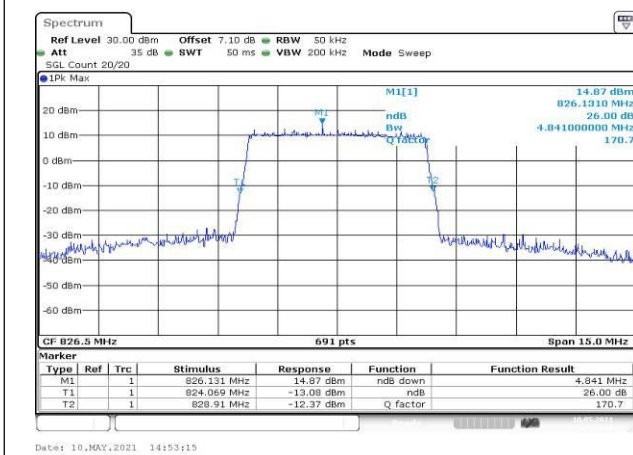


Fig.21

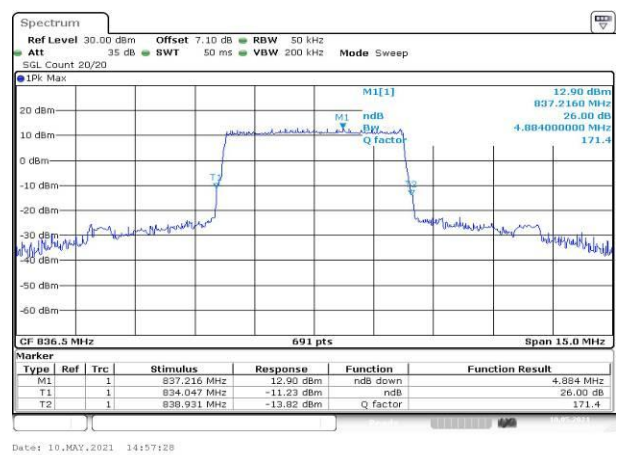


Fig.22

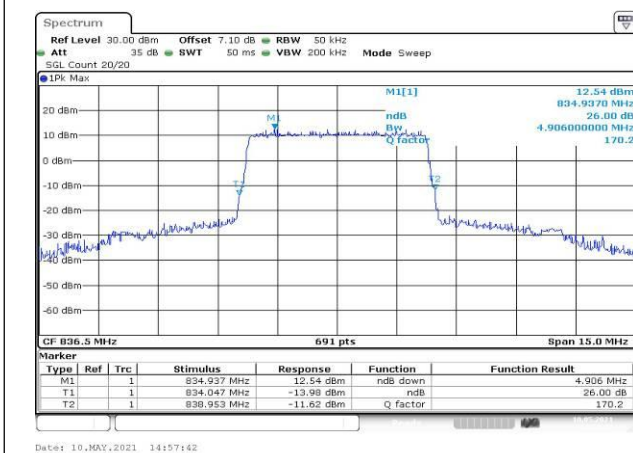


Fig.23

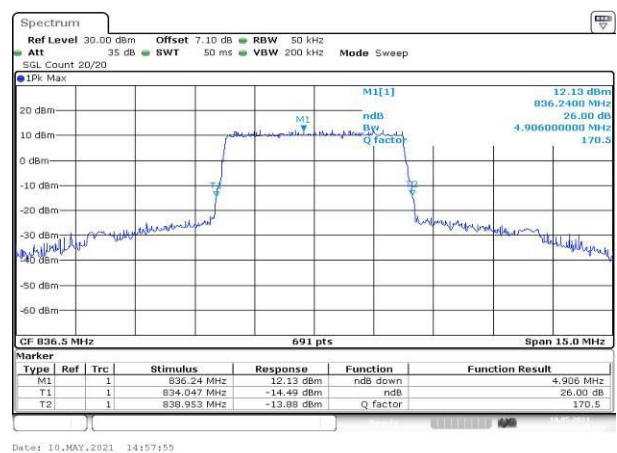


Fig.24

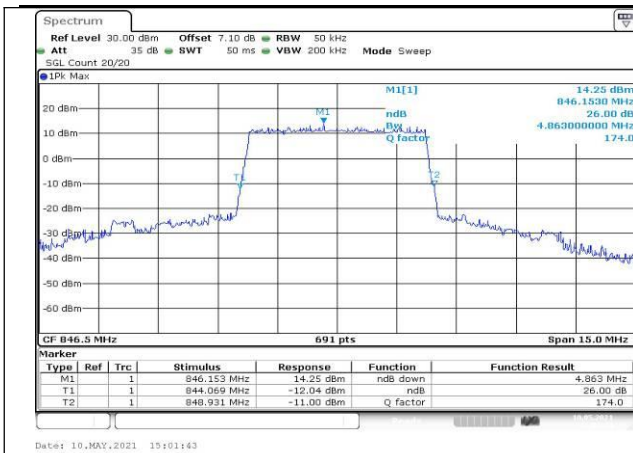


Fig.25

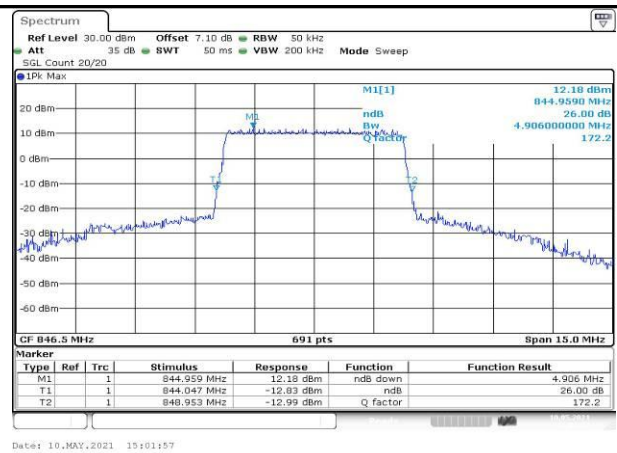


Fig.26

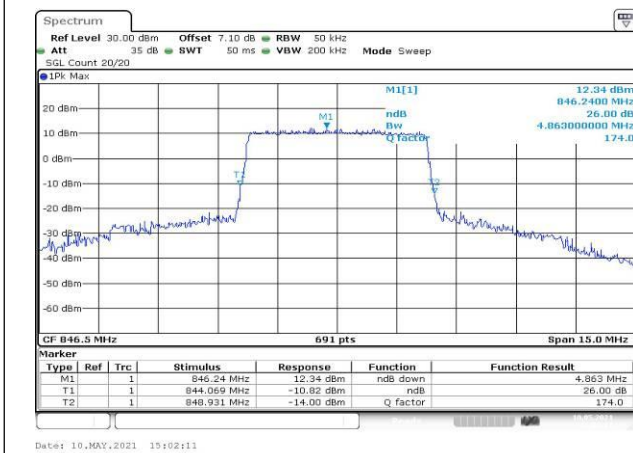


Fig.27

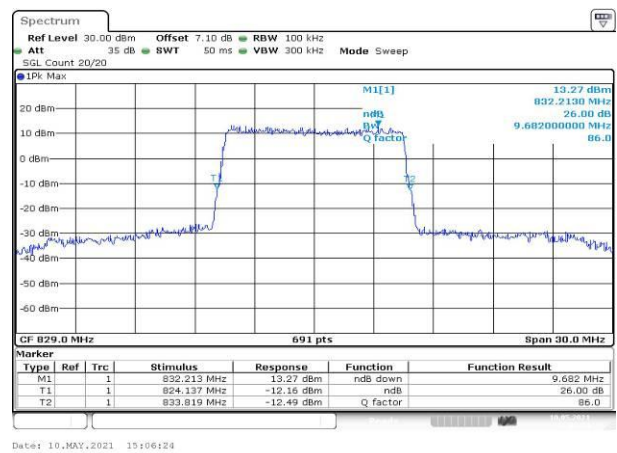


Fig.28

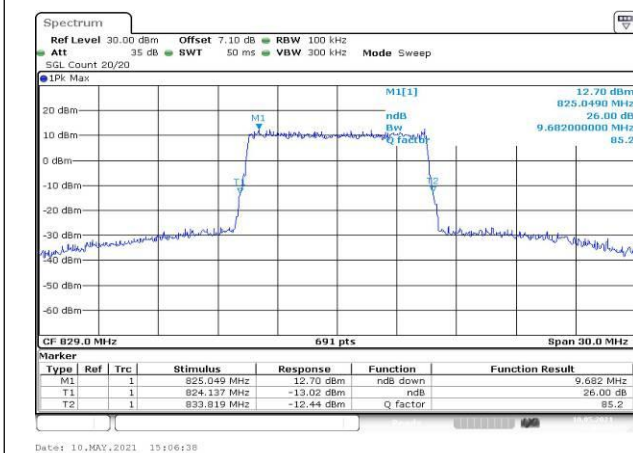


Fig.29

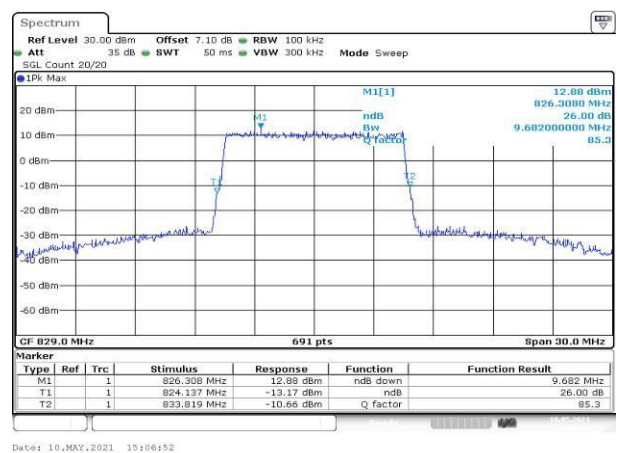


Fig.30

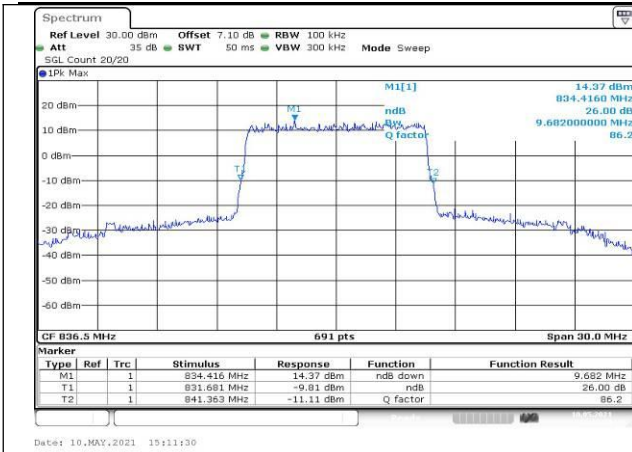


Fig.31

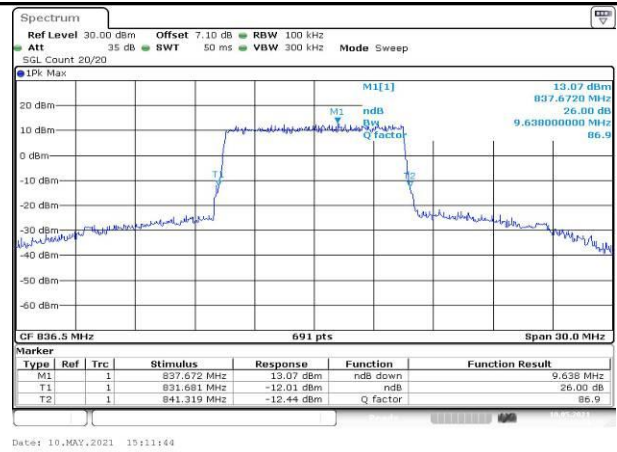


Fig.32

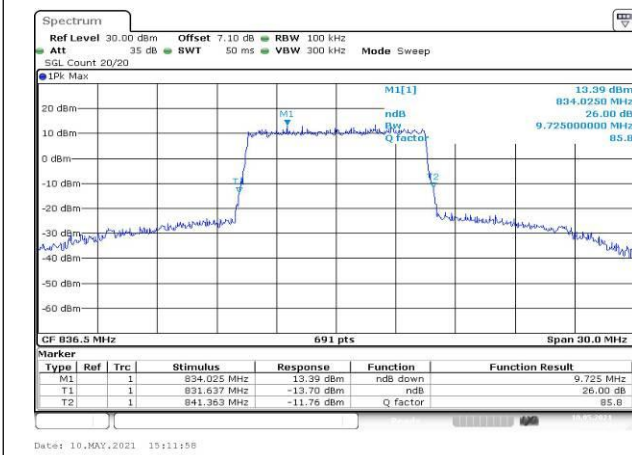


Fig.33

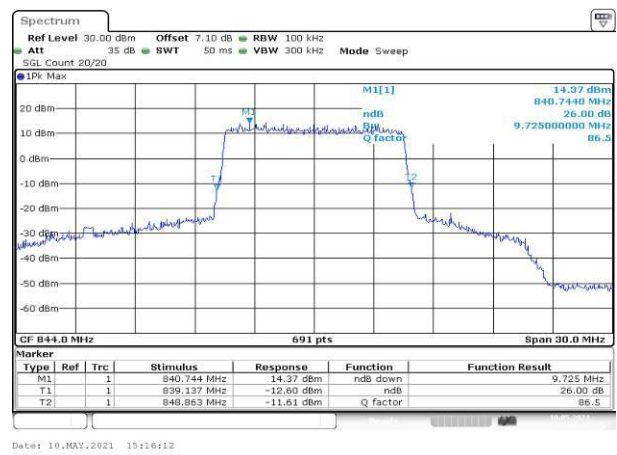


Fig.34

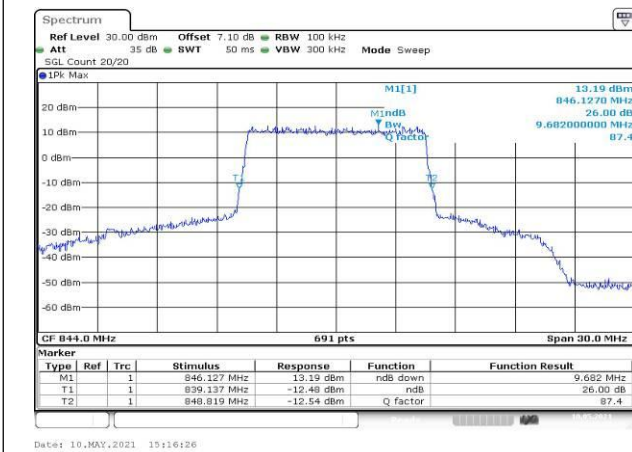


Fig.35

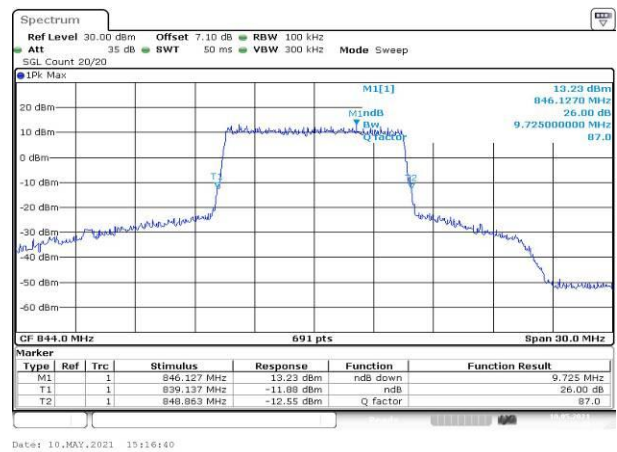


Fig.36

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

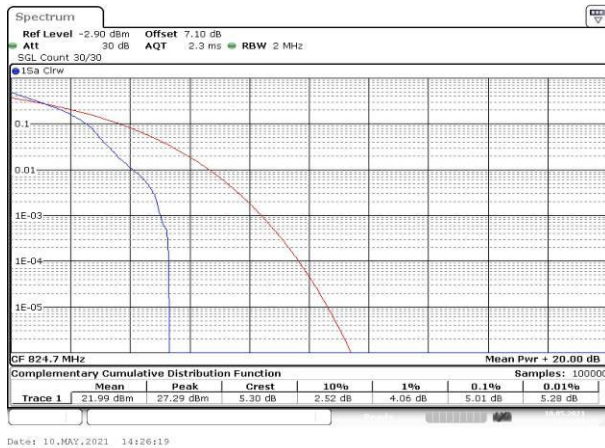


Fig.1

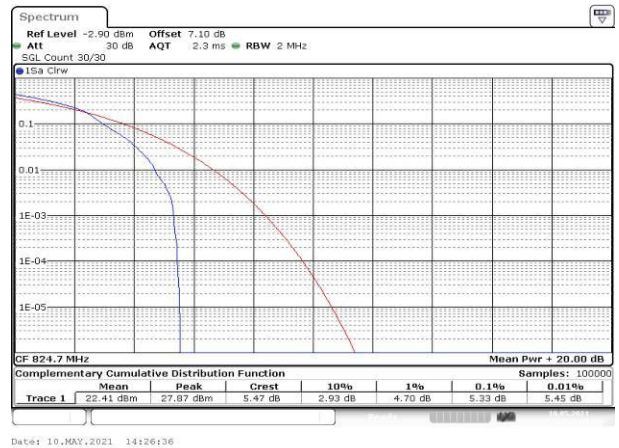


Fig.2

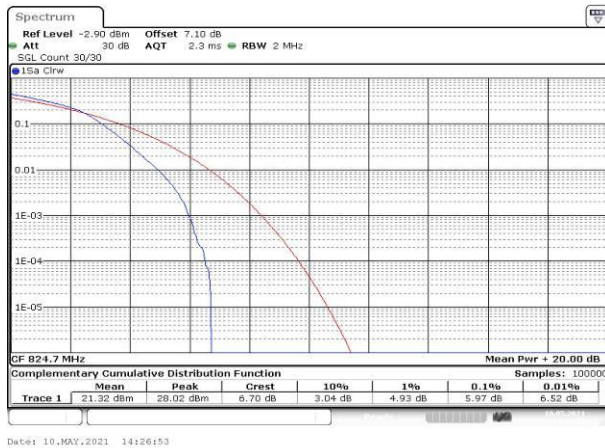


Fig.3

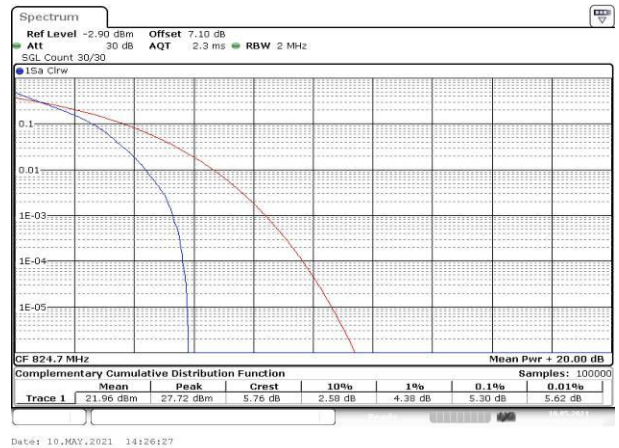


Fig.4

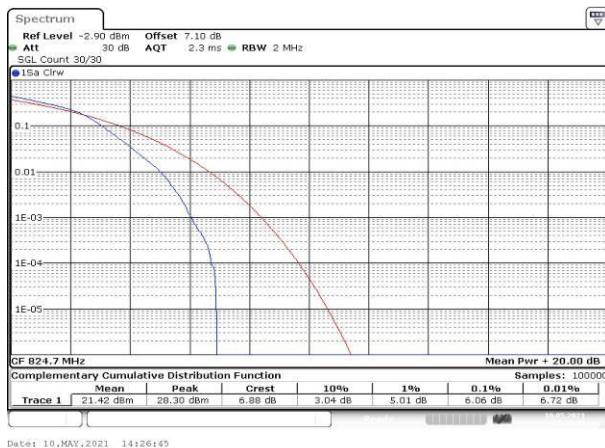


Fig.5

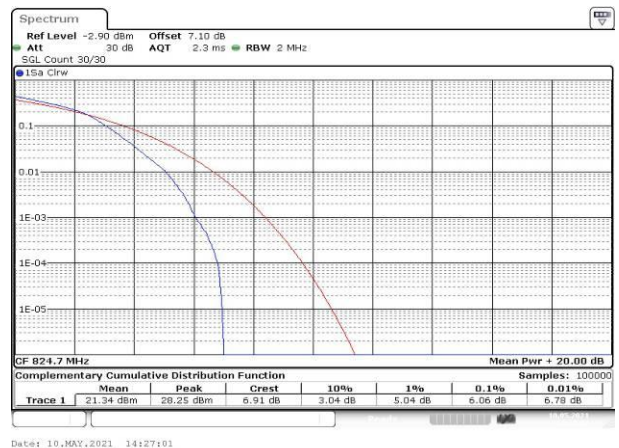


Fig.6

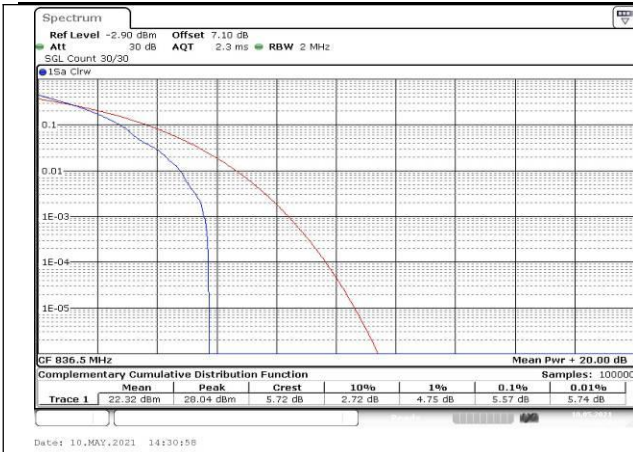


Fig.7

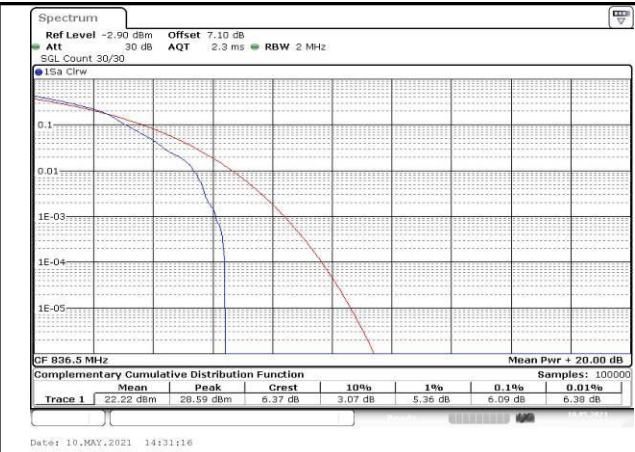


Fig.8

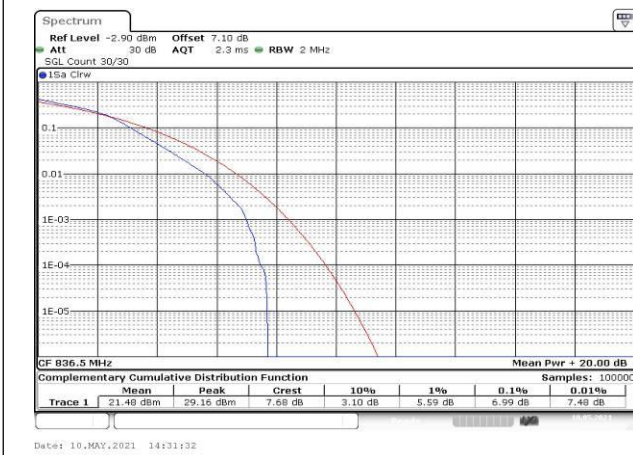


Fig.9

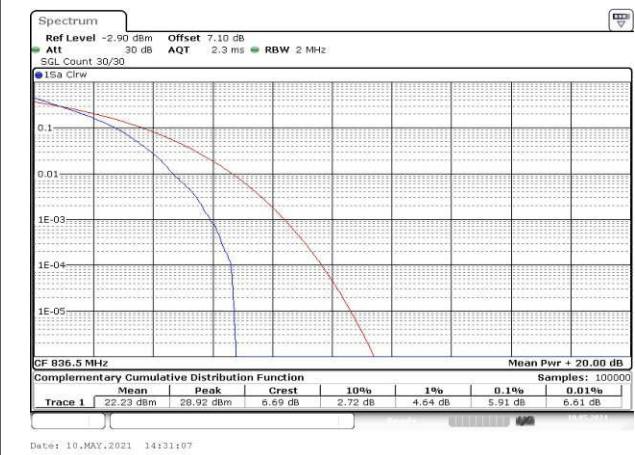


Fig.10

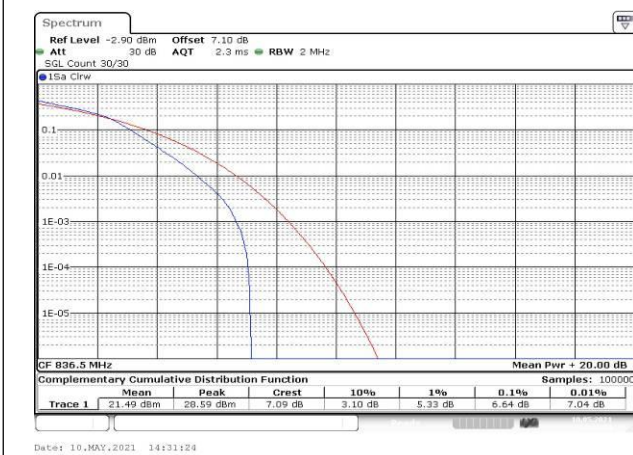


Fig.11

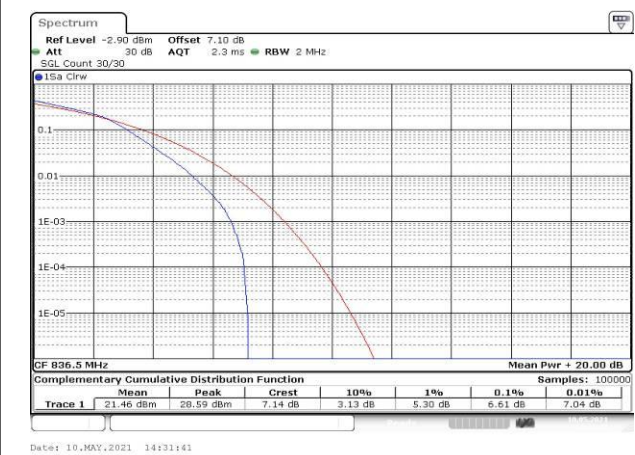


Fig.12

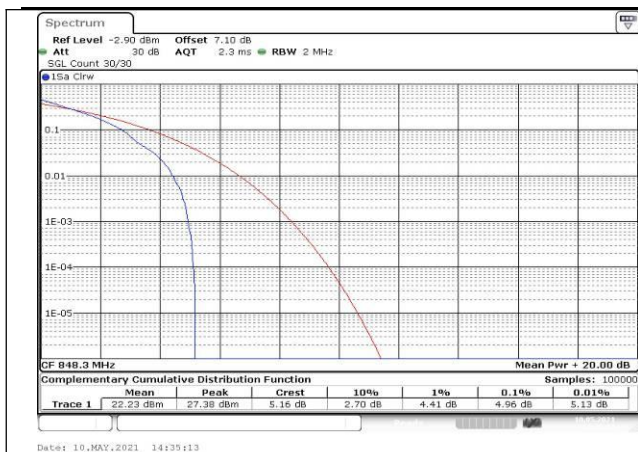


Fig.13

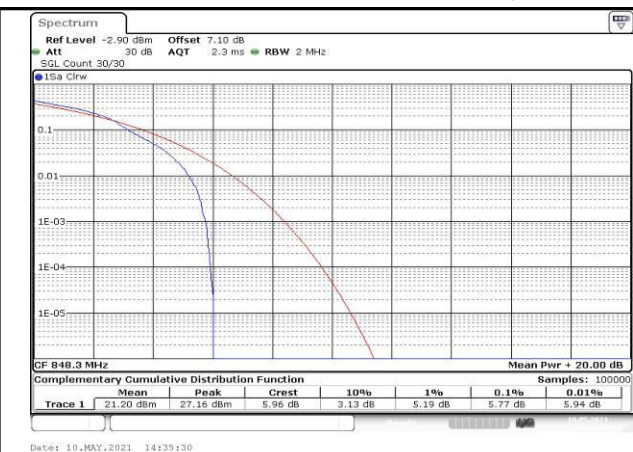


Fig.14

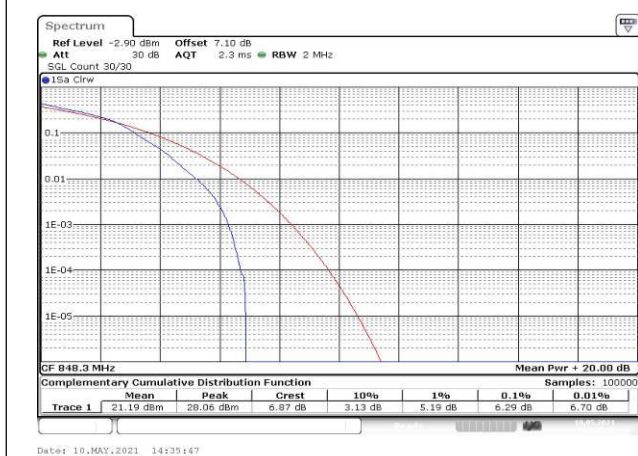


Fig.15

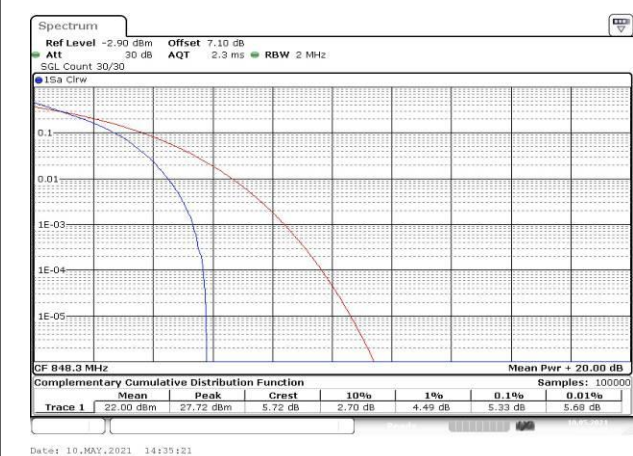


Fig.16

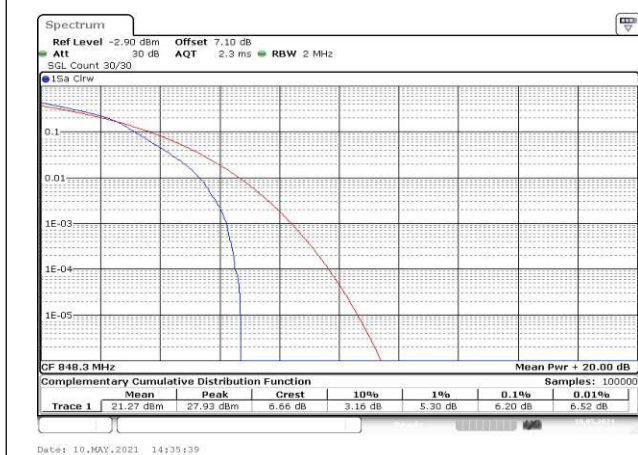


Fig.17

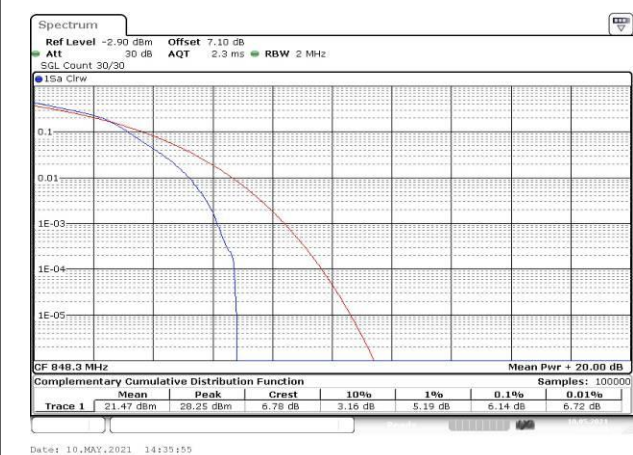


Fig.18