

APPENDIX A3 – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

2. 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	24.30		
				1	3	24.30		
				1	5	24.26		
				3	0	24.20		
				3	1	24.10		
				3	3	24.08		
				6	0	23.00		
16QAM				836.5	20525	1	0	22.66
						1	3	22.78
						1	5	22.78
						3	0	23.09
						3	1	22.84
						3	3	22.84
						6	0	22.25
	848.3	20643		1	0	24.06		
				1	3	24.14		
				1	5	24.10		
				3	0	23.35		
				3	1	23.42		
				3	3	23.33		
				6	0	22.48		
				1	0	24.18		
				1	3	24.23		
				1	5	24.29		
3	0	23.52						
3	1	23.63						
3	3	23.62						
6	0	22.91						

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	22.10
				1	3	22.10
				1	5	22.10
				3	0	22.23
				3	1	22.23
				3	3	22.08
				6	0	22.08
	836.5	20525		1	0	22.48
				1	3	22.47
				1	5	22.47
				3	0	22.46
				3	1	22.45
				3	3	22.58
				6	0	22.57
	848.3	20643		1	0	22.96
				1	3	22.90
				1	5	22.84
				3	0	22.93
				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	23.97	
				1	8	23.99	
				1	14	24.03	
				8	0	23.11	
				8	4	23.22	
				8	7	23.21	
				15	0	23.18	
	836.5	20525		1	0	24.38	
				1	8	24.48	
				1	14	24.47	
				8	0	23.46	
				8	4	23.49	
				8	7	23.50	
				15	0	23.55	
	847.5	20635		1	0	24.88	
				1	8	24.92	
				1	14	25.01	
				8	0	23.69	
				8	4	23.77	
				8	7	23.77	
				15	0	23.83	
	16QAM	825.5		20415	1	0	23.53
					1	8	23.49
					1	14	23.48
8					0	22.43	
8					4	22.40	
8					7	22.50	
15					0	22.11	
836.5		20525		1	0	24.13	
				1	8	24.30	
			1	14	24.29		
			8	0	22.49		
			8	4	22.54		
			8	7	22.54		
			15	0	22.50		
847.5		20635	1	0	23.48		
			1	8	23.39		
			1	14	23.39		
			8	0	22.89		
			8	4	22.75		
			8	7	22.82		
			15	0	22.83		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	22.11
				1	8	22.16
				1	14	22.11
				8	0	22.10
				8	4	22.10
				8	7	22.10
				15	0	22.10
	836.5	20525		1	0	22.54
				1	8	22.42
				1	14	22.50
				8	0	22.42
				8	4	22.45
				8	7	22.51
				15	0	22.51
	847.5	20635		1	0	22.83
				1	8	22.79
				1	14	22.74
				8	0	22.84
				8	4	22.79
				8	7	22.74
				15	0	22.75

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	836.5	20525	5	1	0	24.45
				1	12	24.60
				1	24	24.59
				12	0	23.37
				12	7	23.31
				12	13	23.54
				25	0	23.57
	846.5	20625		1	0	24.60
				1	12	24.57
				1	24	24.67
				12	0	23.62
				12	7	23.68
				12	13	23.70
				25	0	23.81
16QAM	826.5	20425		1	0	22.52
				1	12	22.39
				1	24	22.44
				12	0	22.20
				12	7	22.18
				12	13	22.18
				25	0	22.32
	836.5	20525		1	0	23.66
				1	12	23.64
				1	24	23.64
				12	0	22.56
				12	7	22.41
				12	13	22.41
				25	0	22.48
	846.5	20625		1	0	23.65
				1	12	23.82
				1	24	23.79
				12	0	22.83
				12	7	22.61
				12	13	22.72
				25	0	22.75

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	22.31
				1	12	22.31
				1	24	22.34
				12	0	22.37
				12	7	22.33
				12	13	22.29
				25	0	22.33
	836.5	20525		1	0	22.48
				1	12	22.49
				1	24	22.48
				12	0	22.49
				12	7	22.48
				12	13	22.49
				25	0	22.49
	846.5	20625		1	0	22.77
				1	12	22.77
				1	24	22.67
				12	0	22.68
				12	7	22.68
				12	13	22.68
				25	0	22.68

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	829	20450	10	1	0	24.07	
				1	25	24.28	
				1	49	24.33	
				25	0	23.12	
				25	12	23.31	
				25	25	23.32	
				50	0	23.18	
	836.5	20525		1	0	24.37	
				1	25	24.55	
				1	49	24.54	
				25	0	23.51	
				25	12	23.57	
				25	25	23.56	
				50	0	23.59	
	844	20600		1	0	24.42	
				1	25	24.68	
				1	49	24.66	
				25	0	23.43	
				25	12	23.72	
				25	25	23.72	
				50	0	23.58	
	16QAM	829		20450	1	0	23.62
					1	25	23.79
					1	49	23.80
25					0	22.34	
25					12	22.28	
25					25	22.29	
50					0	22.28	
836.5		20525		1	0	24.05	
				1	25	24.30	
				1	49	24.15	
				25	0	22.41	
				25	12	22.42	
				25	25	22.69	
				50	0	22.45	
844		20600		1	0	23.36	
				1	25	23.57	
				1	49	23.56	
				25	0	22.69	
				25	12	22.96	
				25	25	22.97	
				50	0	22.56	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	22.28
				1	25	22.28
				1	49	22.28
				25	0	22.28
				25	12	22.28
				25	25	22.28
				50	0	22.28
	836.5	20525		1	0	22.51
				1	25	22.51
				1	49	22.51
				25	0	22.51
				25	12	22.56
				25	25	22.56
				50	0	22.56
	844	20600		1	0	22.57
				1	25	22.56
				1	49	22.57
				25	0	22.57
				25	12	22.67
				25	25	22.46
				50	0	22.46

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	1.082	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	1.082	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	2.683	Fig.16	2.696	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	4.450	Fig.25	4.493	Fig.26	4.472	Fig.27
	829	20450	10	50	0	8.987	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

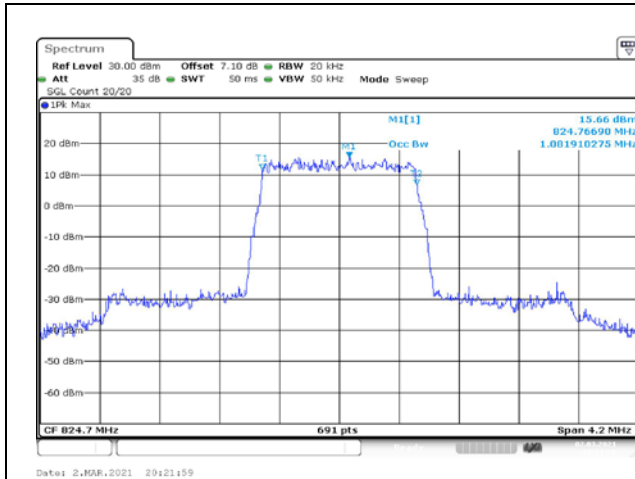


Fig.1

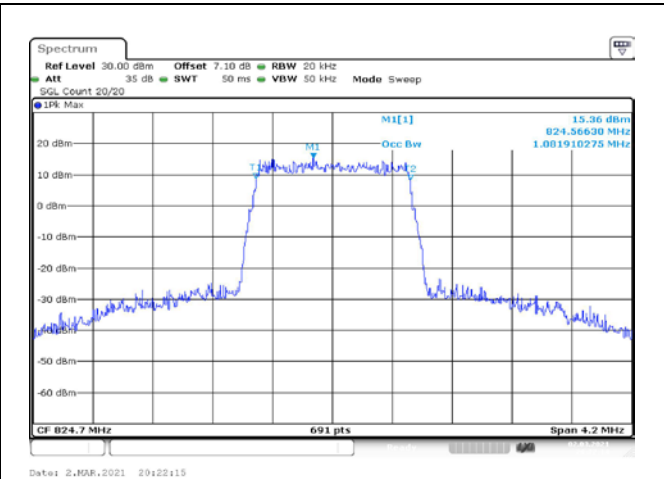


Fig.2

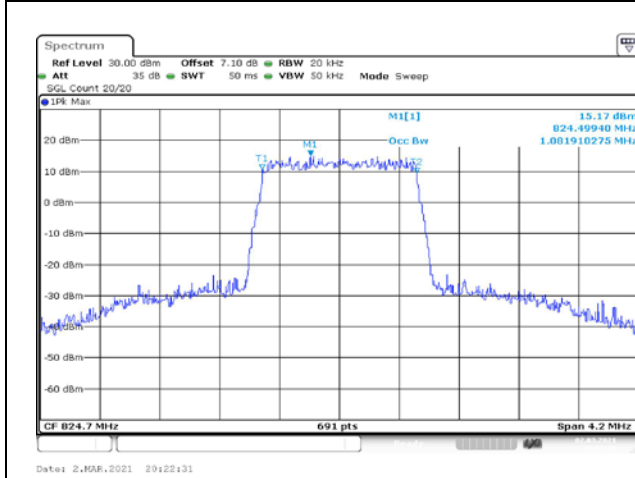


Fig.3

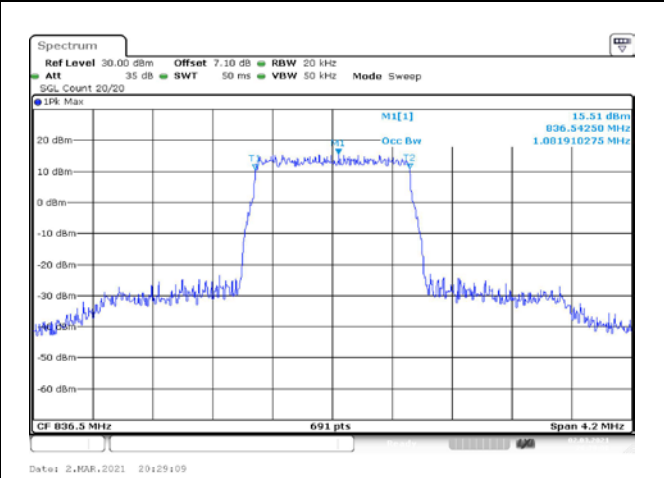


Fig.4

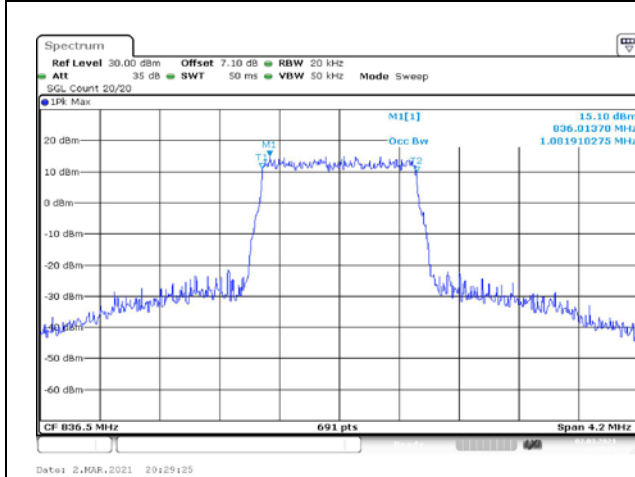


Fig.5

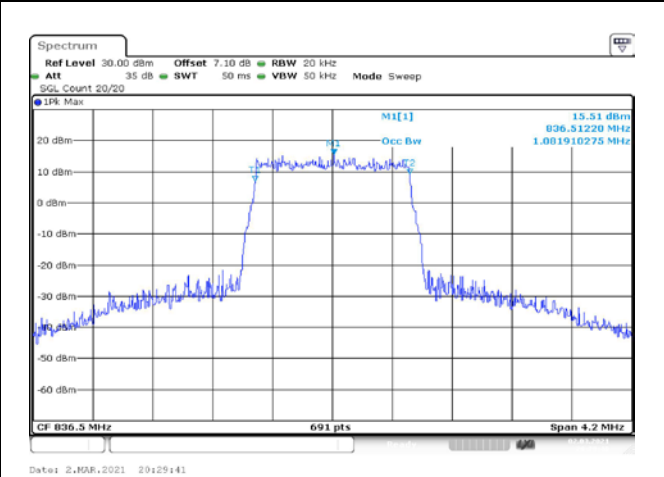
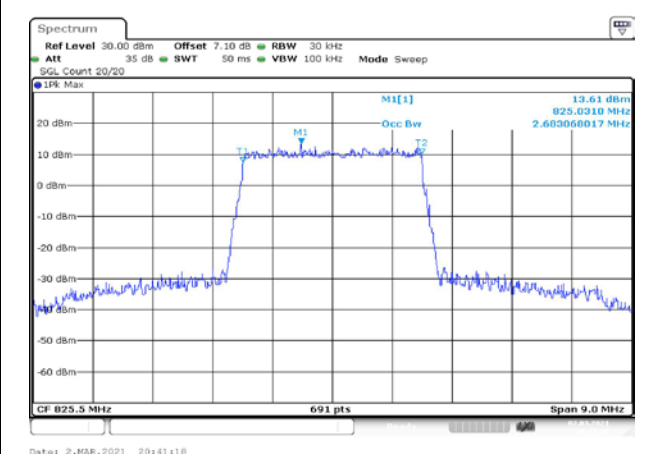
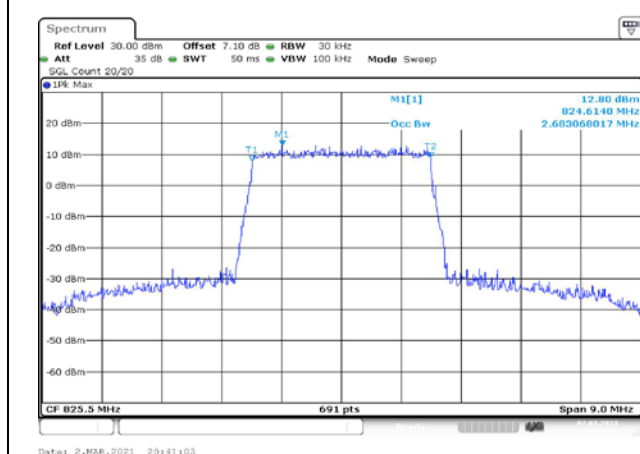
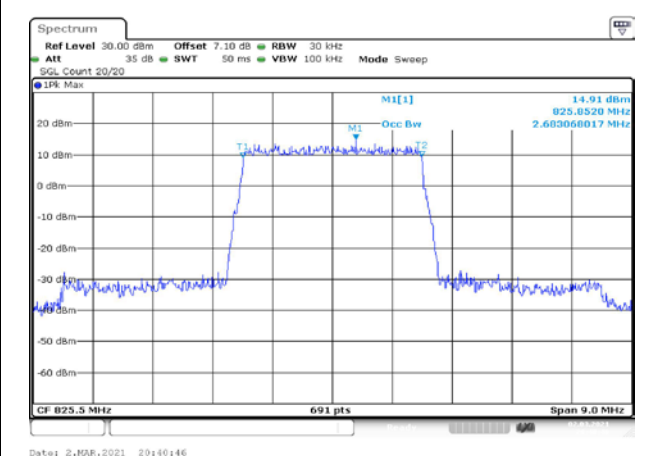
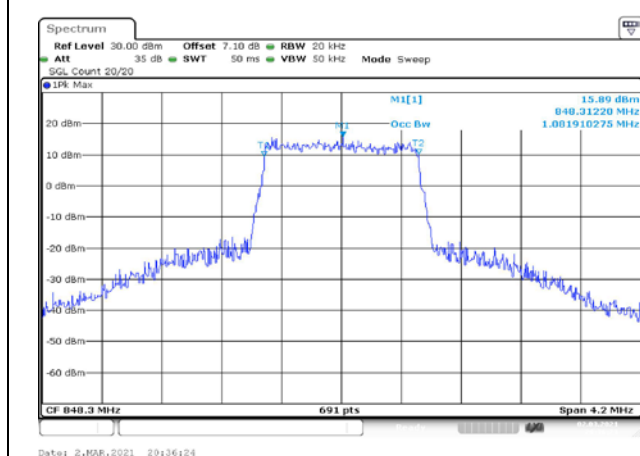
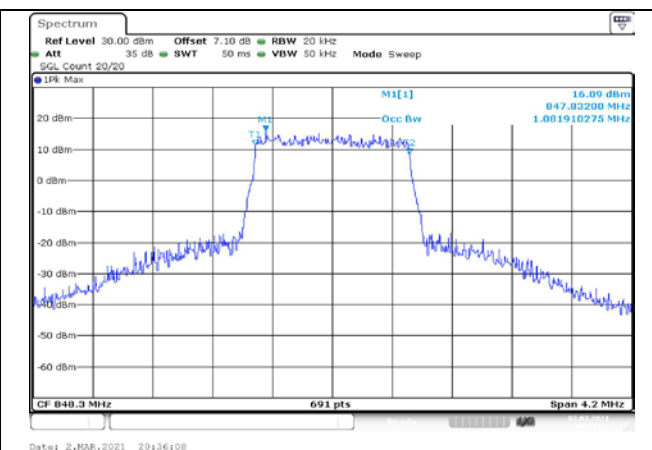
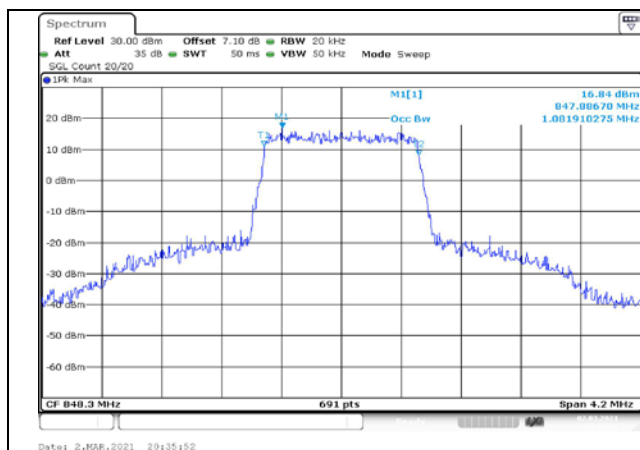


Fig.6



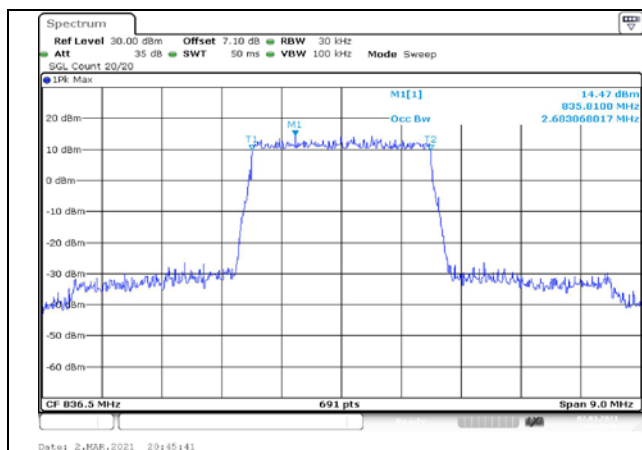


Fig.13

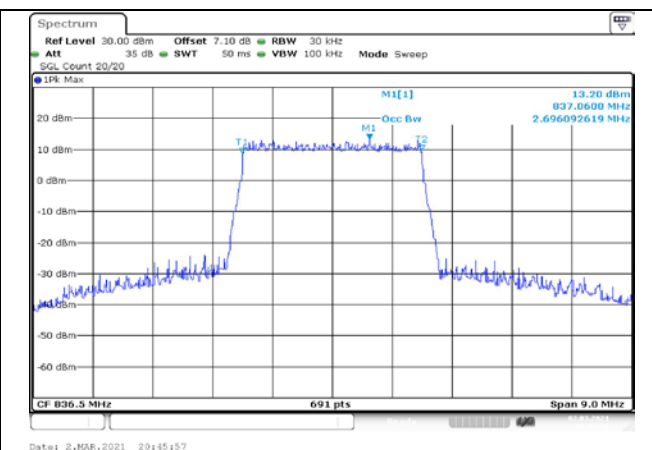


Fig.14

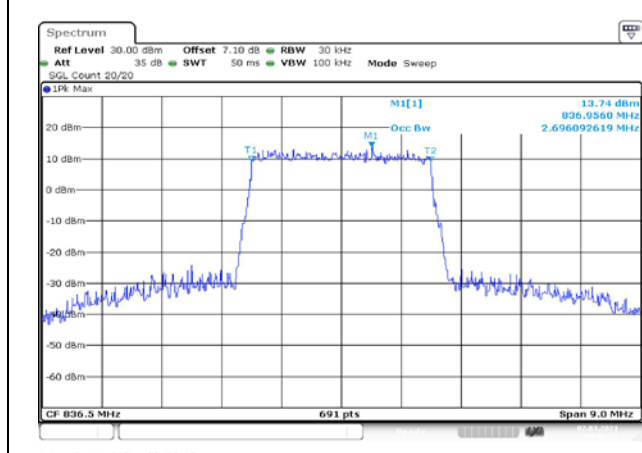


Fig.15

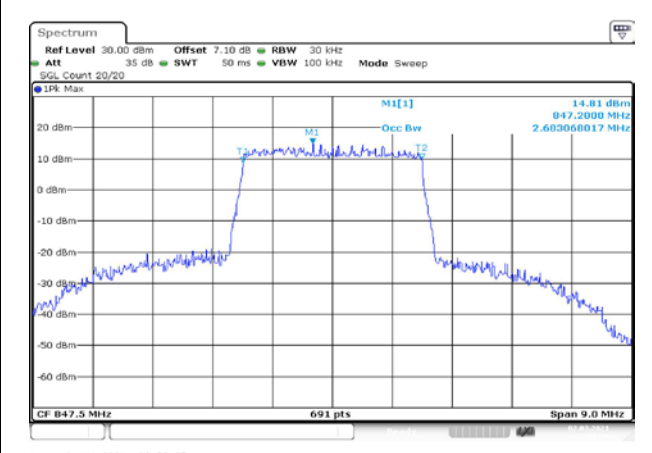


Fig.16

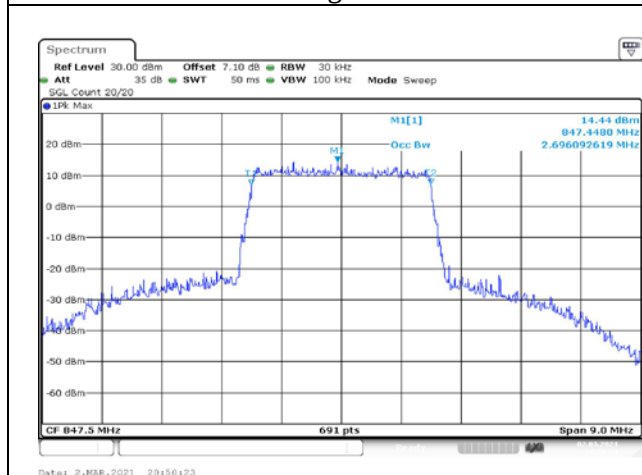


Fig.17

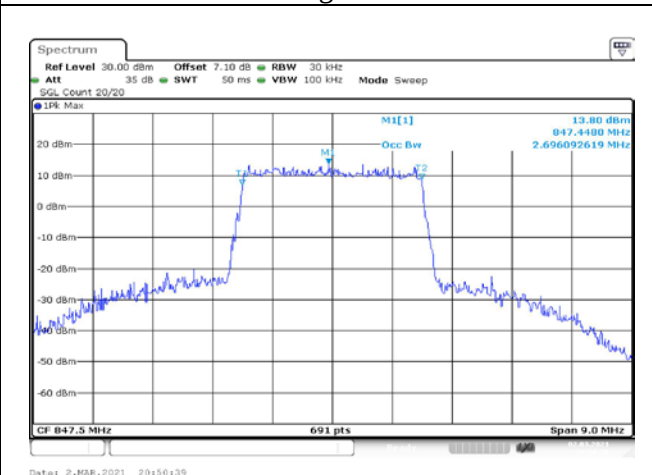


Fig.18

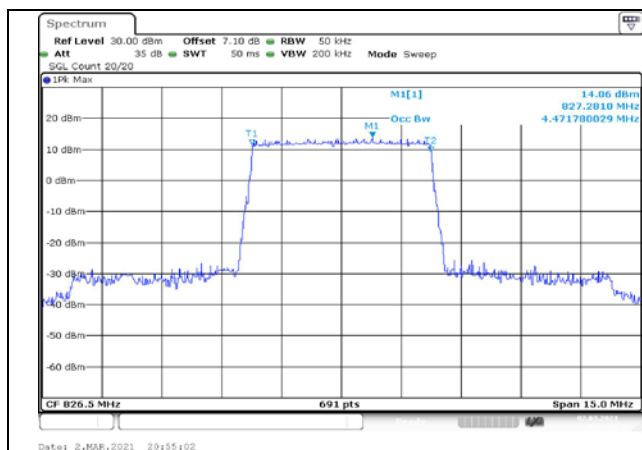


Fig.19

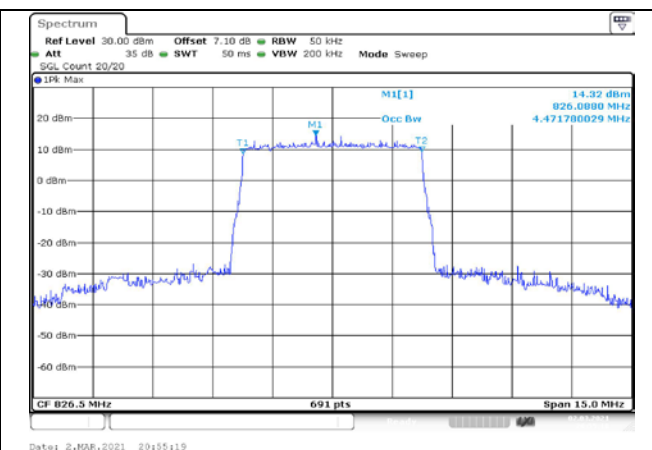


Fig.20

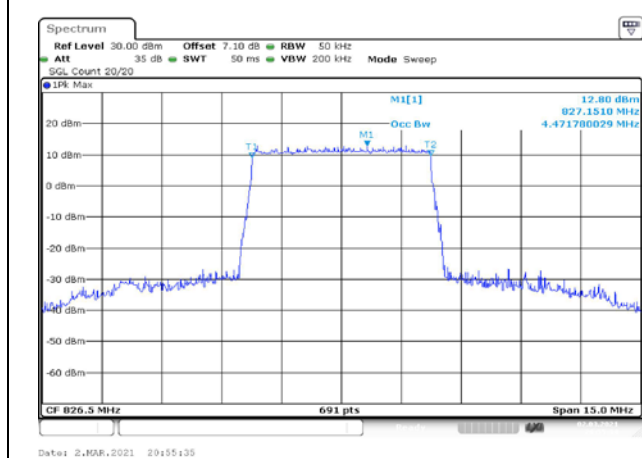


Fig.21

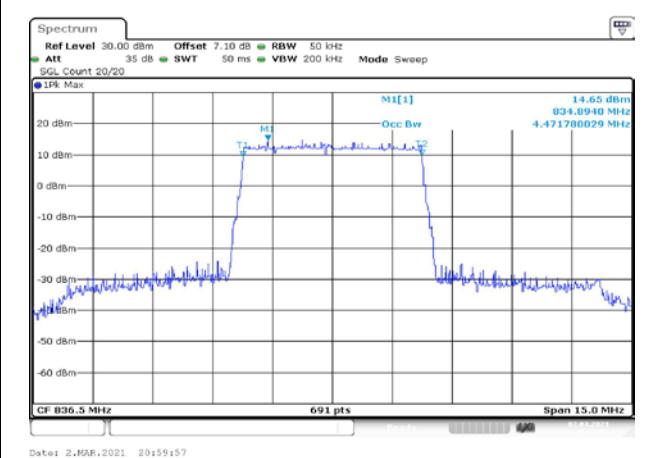


Fig.22

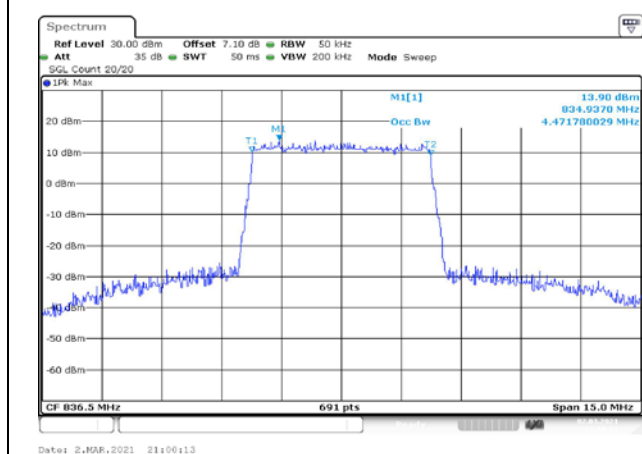


Fig.23

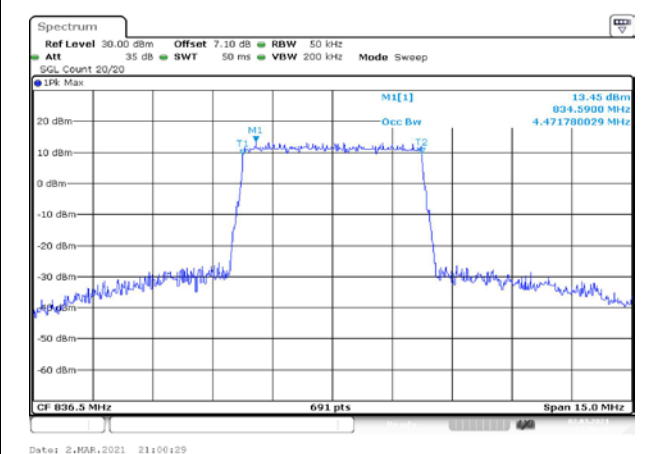
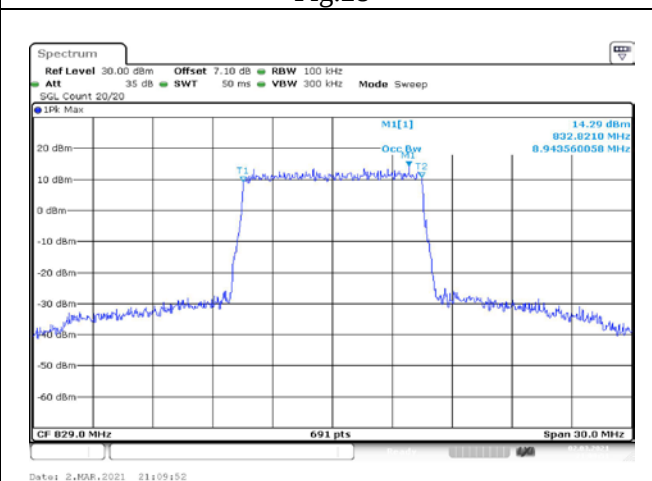
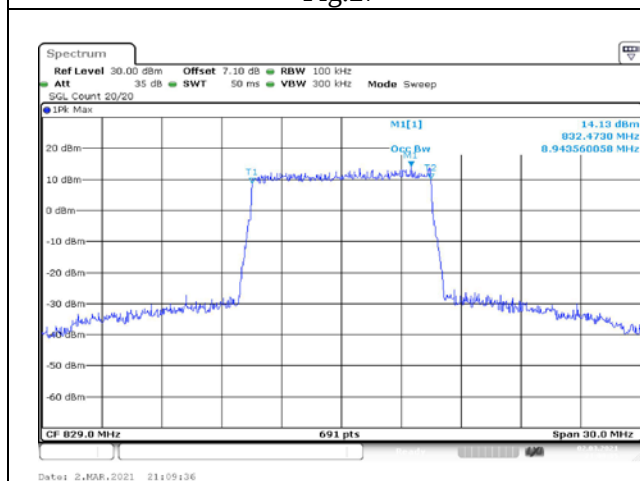
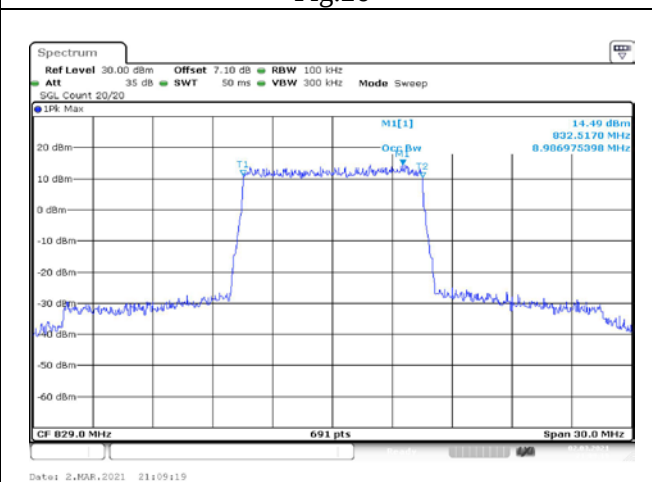
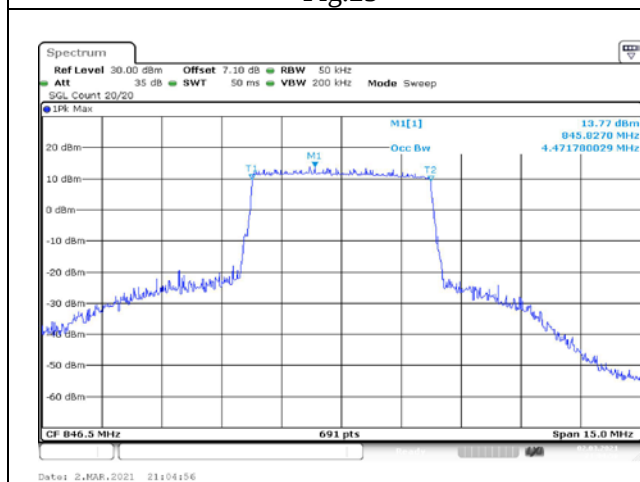
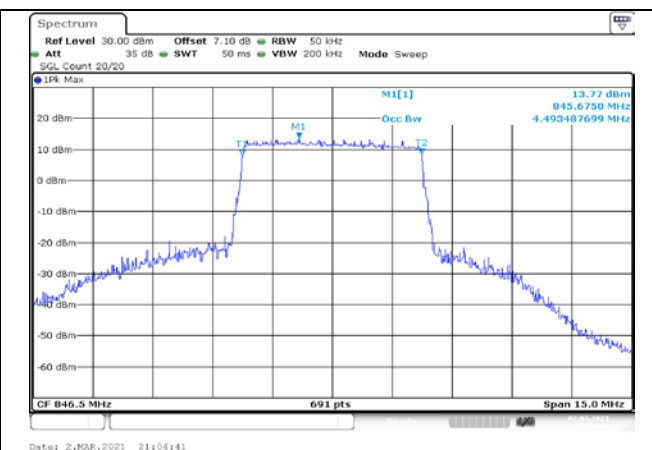
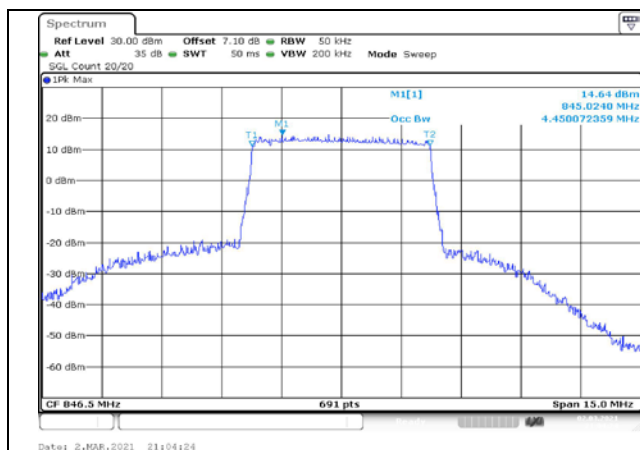
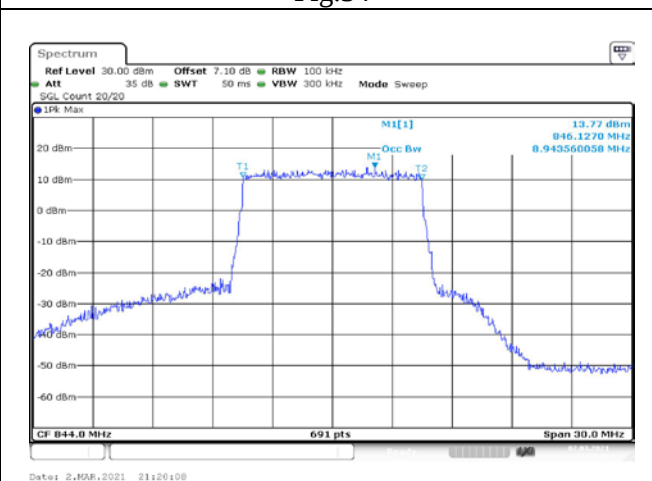
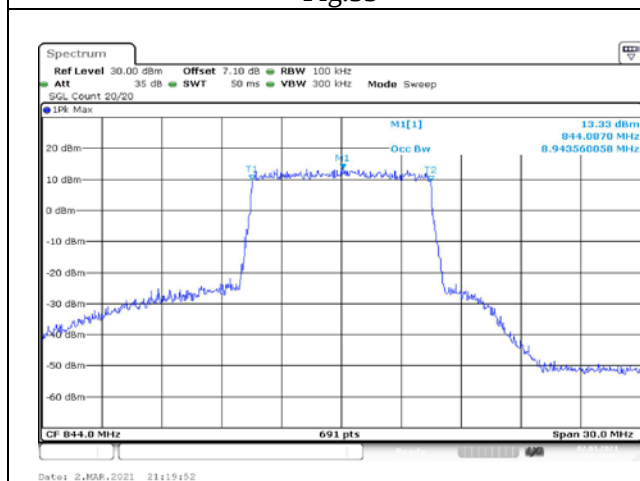
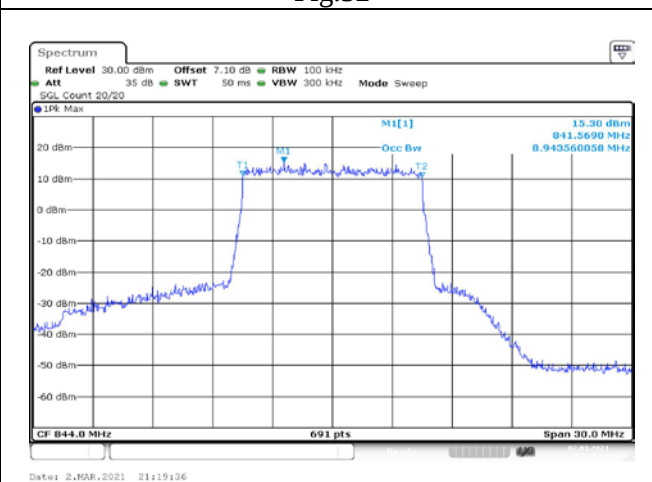
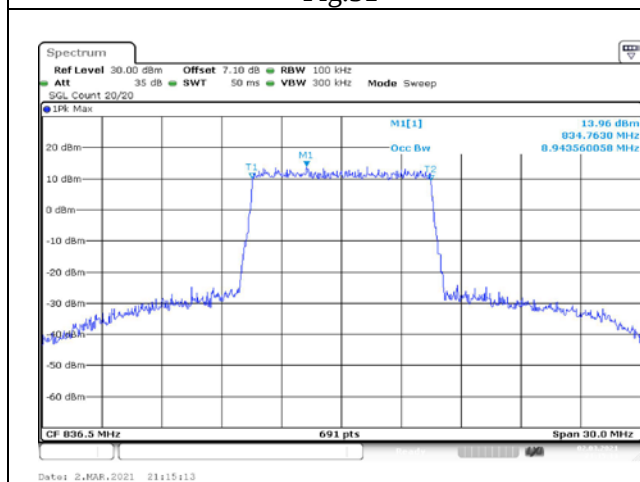
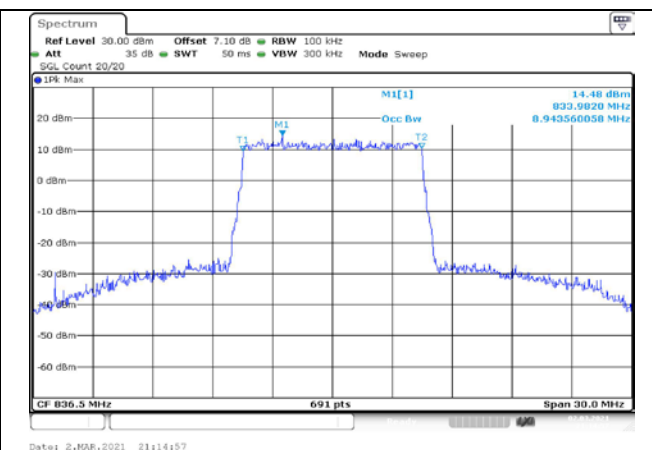
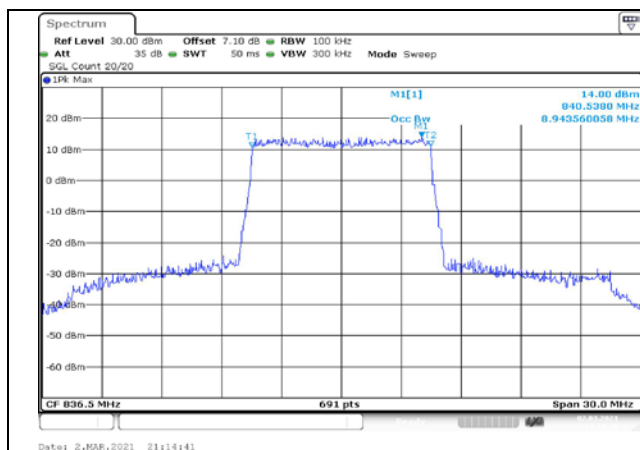


Fig.24





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	1.222	Fig.3
	836.5	20525		6	0	1.222	Fig.4	1.222	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	2.983	Fig.10	2.957	Fig.11	2.996	Fig.12
	836.5	20525		15	0	2.970	Fig.13	2.983	Fig.14	2.983	Fig.15
	847.5	20635		15	0	2.983	Fig.16	2.996	Fig.17	2.957	Fig.18
	826.5	20425	5	25	0	4.906	Fig.19	4.841	Fig.20	4.906	Fig.21
	836.5	20525		25	0	4.841	Fig.22	4.906	Fig.23	4.884	Fig.24
	846.5	20625		25	0	4.884	Fig.25	4.906	Fig.26	4.884	Fig.27
	829	20450	10	50	0	9.725	Fig.28	9.682	Fig.29	9.682	Fig.30
	836.5	20525		50	0	9.725	Fig.31	9.638	Fig.32	9.768	Fig.33
	844	20600		50	0	9.682	Fig.34	9.725	Fig.35	9.725	Fig.36

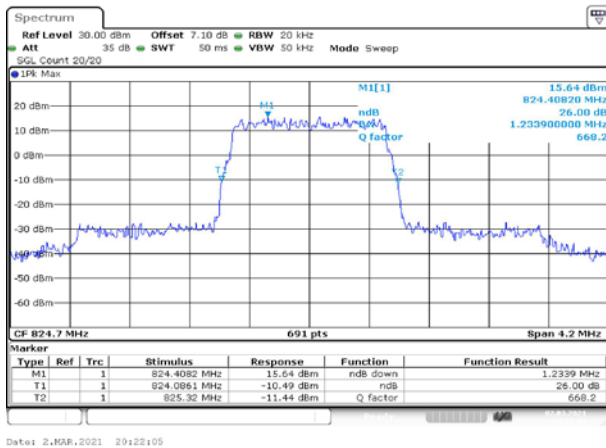


Fig.1

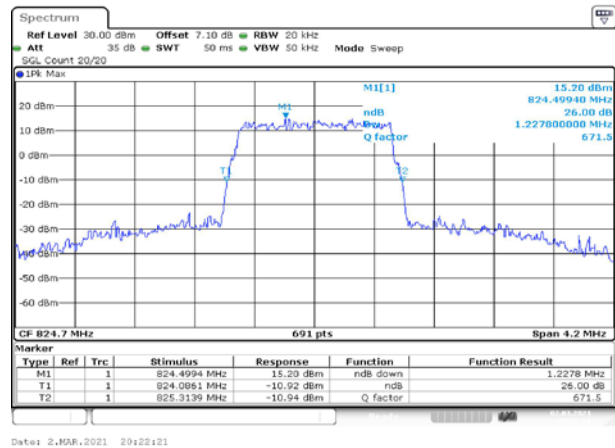


Fig.2

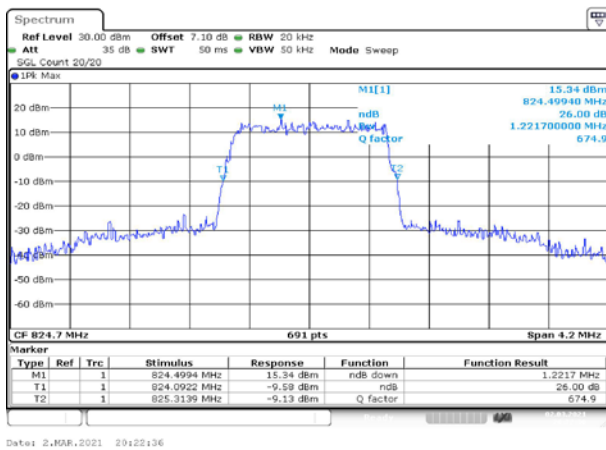


Fig.3

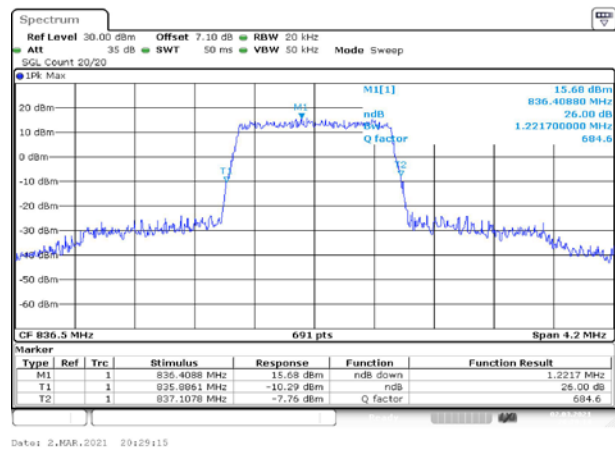


Fig.4

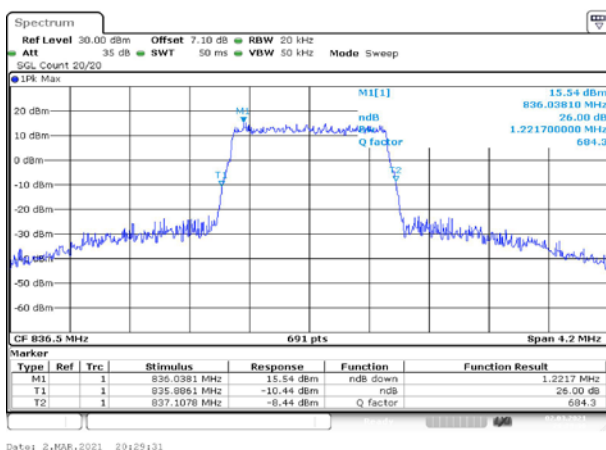


Fig.5

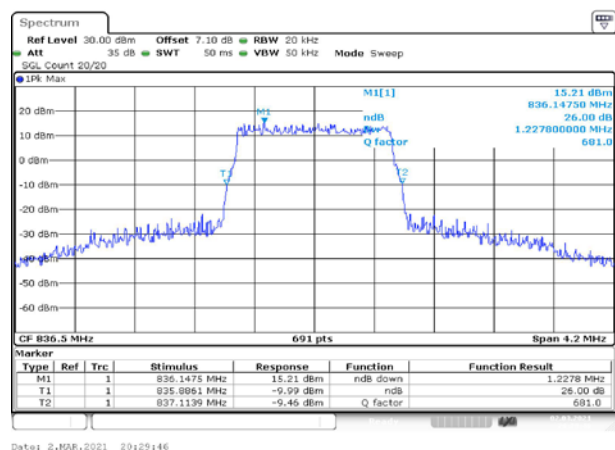


Fig.6

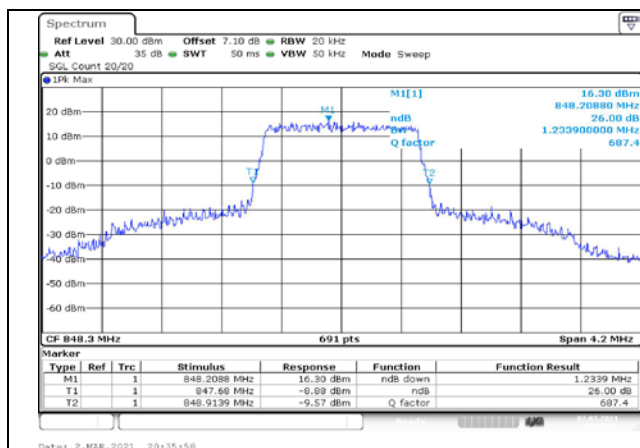


Fig.7

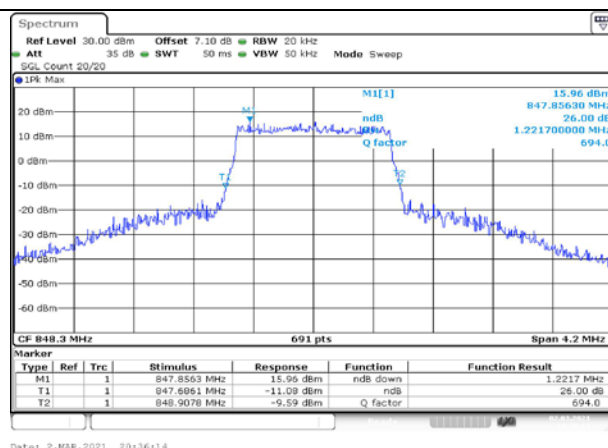


Fig.8

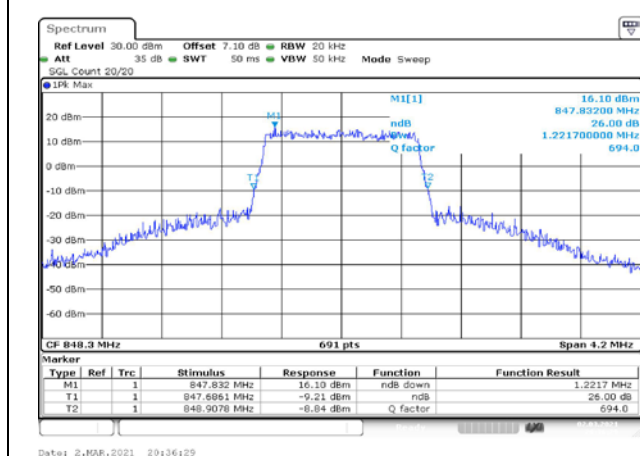


Fig.9

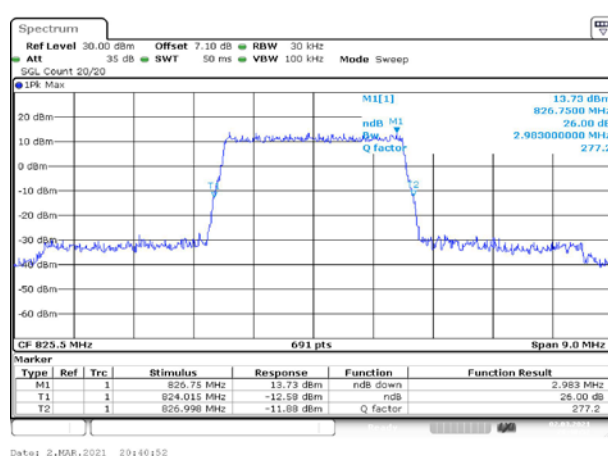


Fig.10

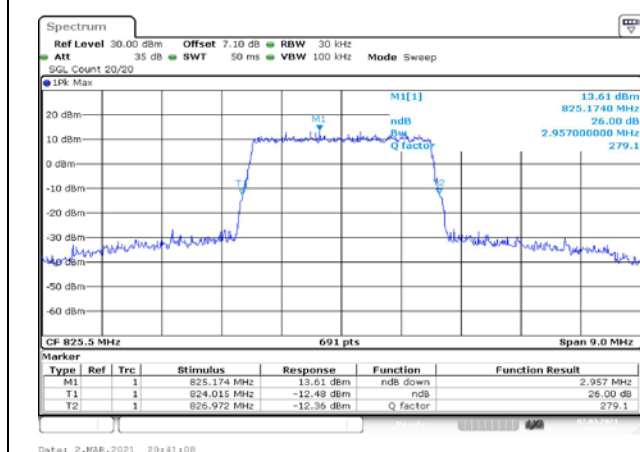


Fig.11

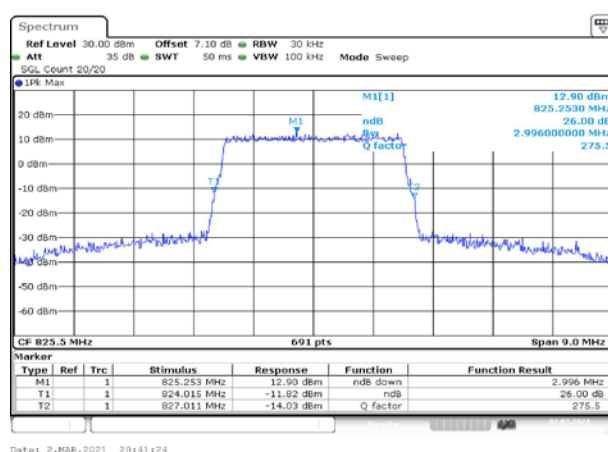


Fig.12

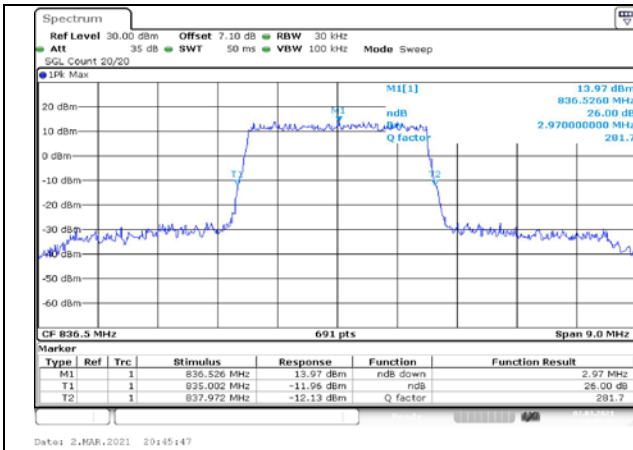


Fig.13

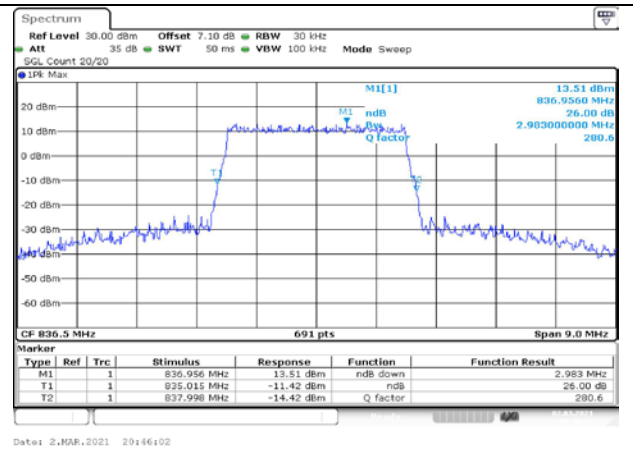


Fig.14

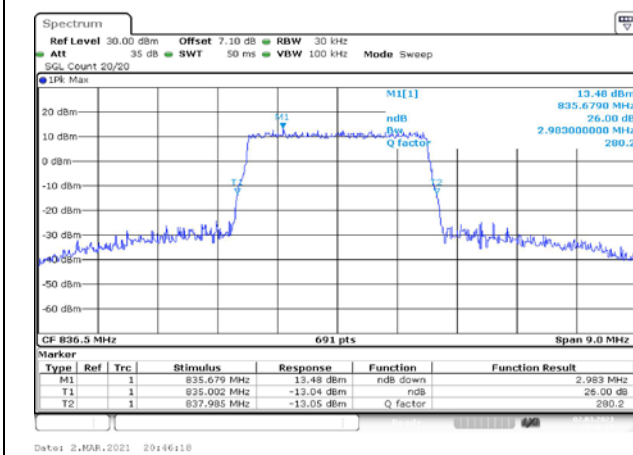


Fig.15

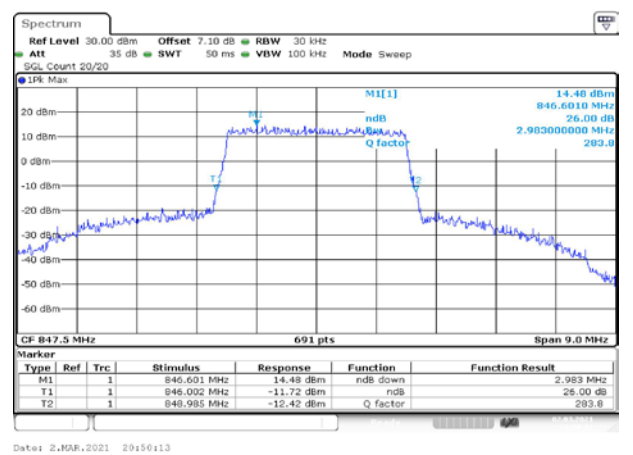


Fig.16

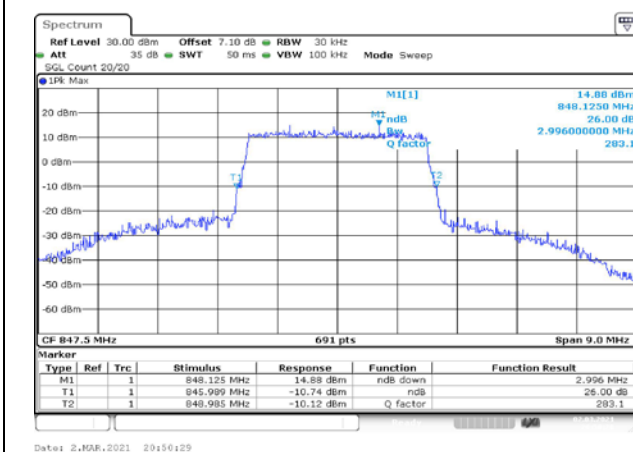


Fig.17

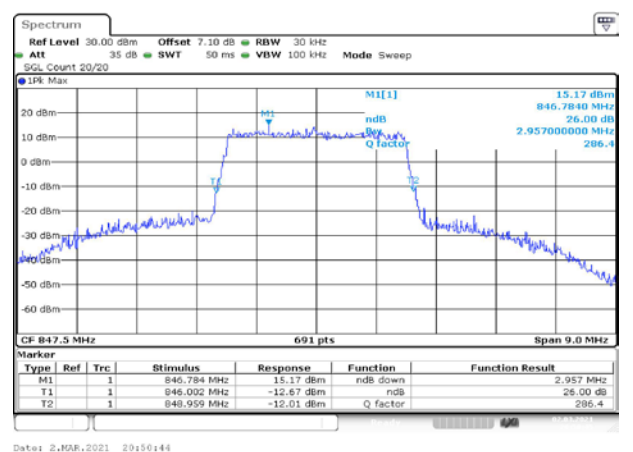


Fig.18

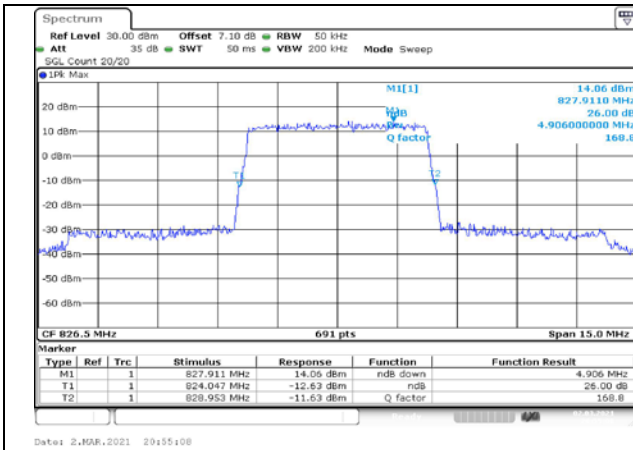


Fig.19

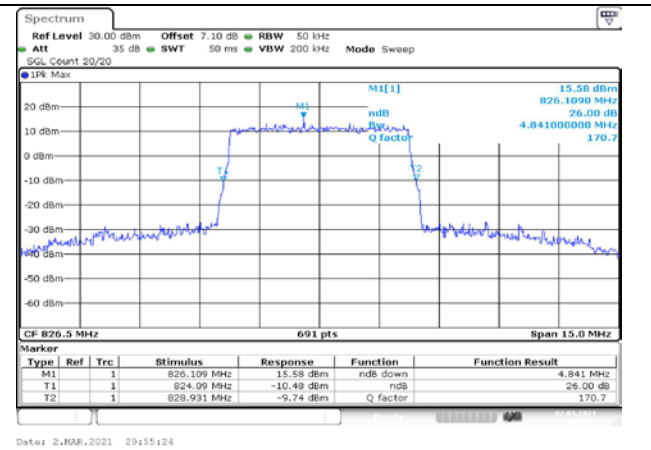


Fig.20

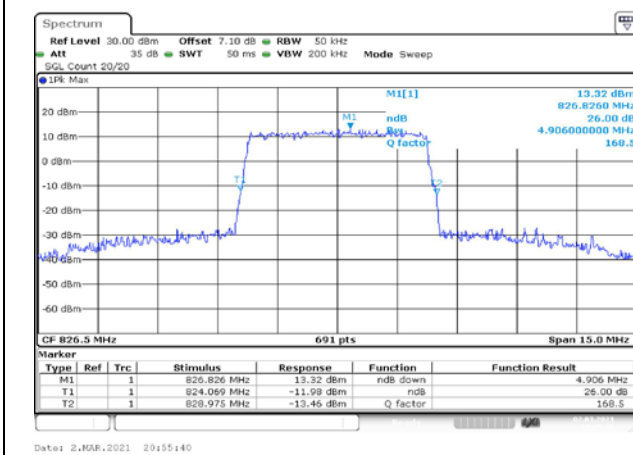


Fig.21

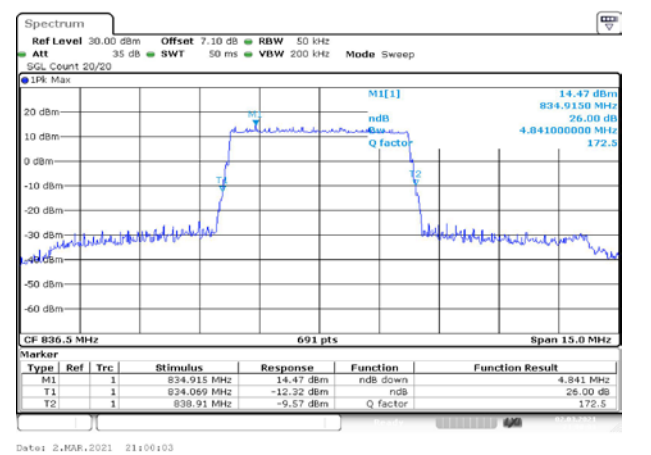


Fig.22

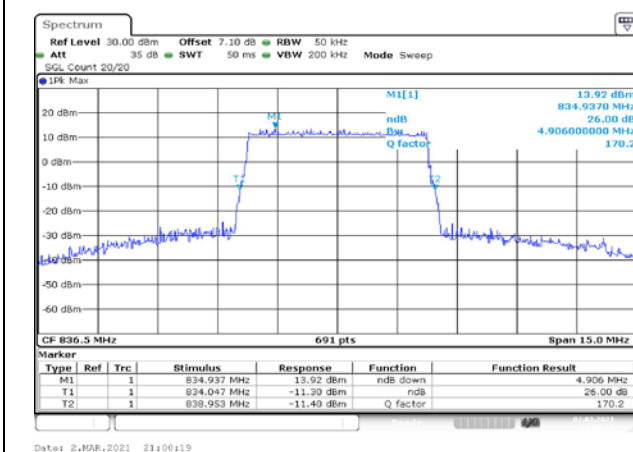


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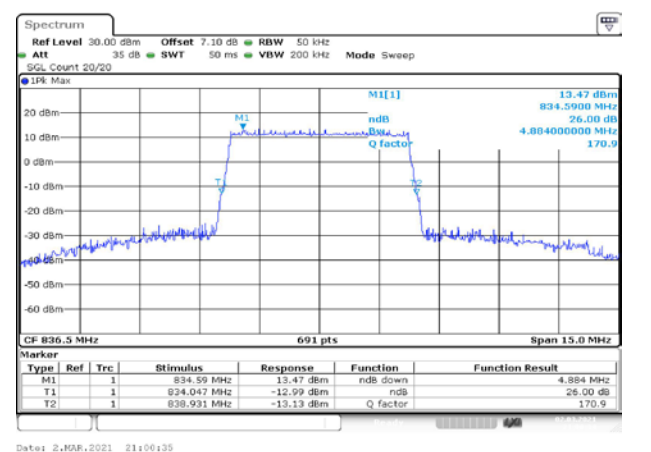


Fig.24

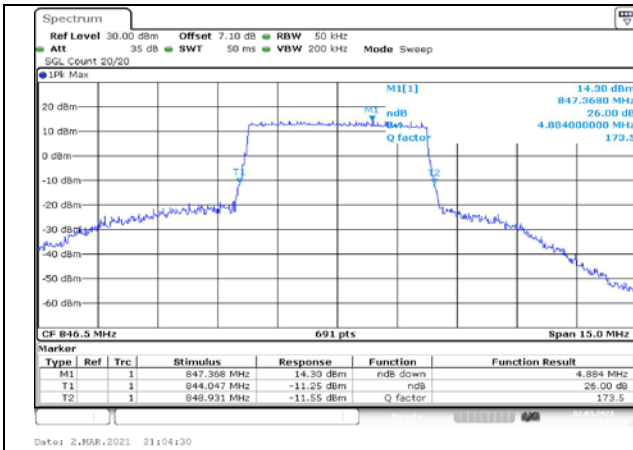


Fig.25

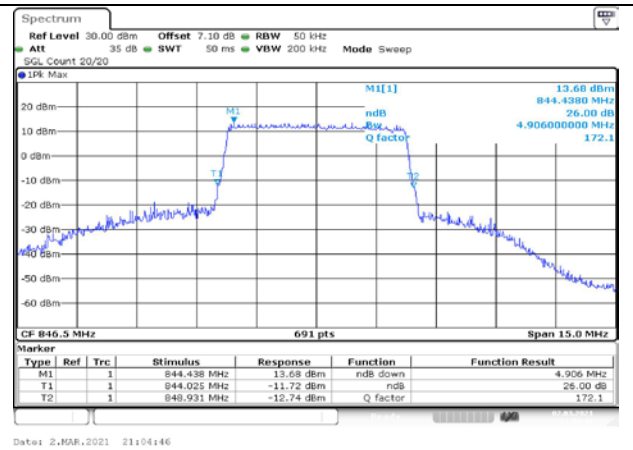


Fig.26

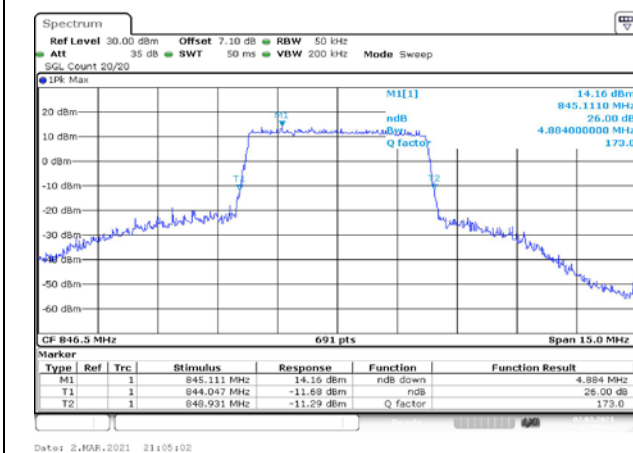


Fig.27

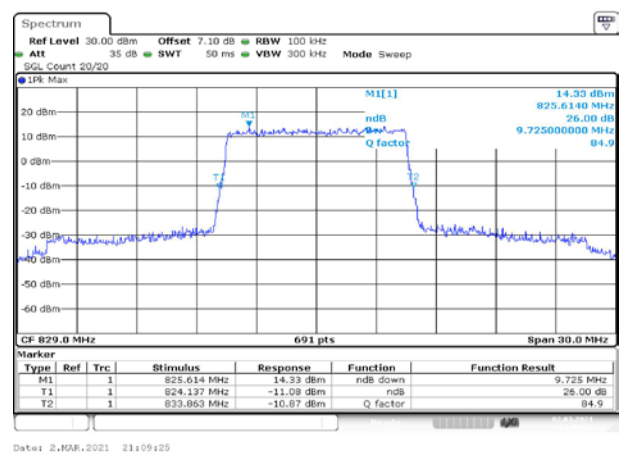


Fig.28

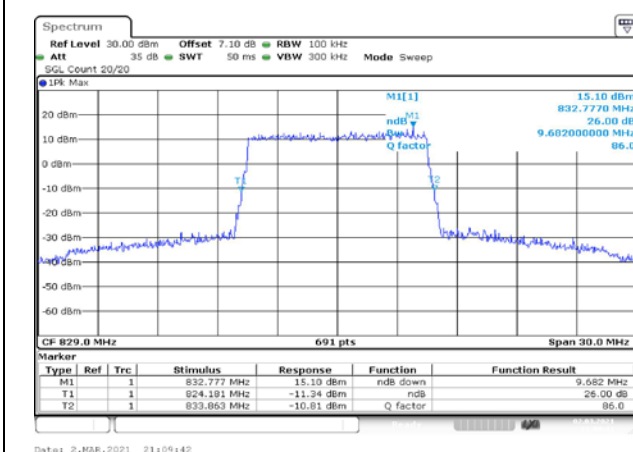


Fig.29

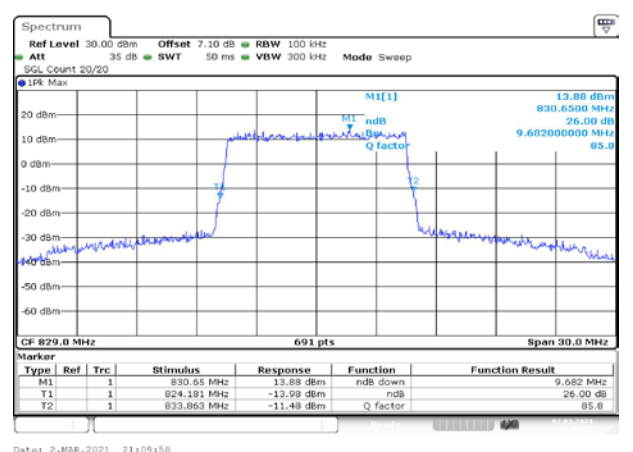


Fig.30

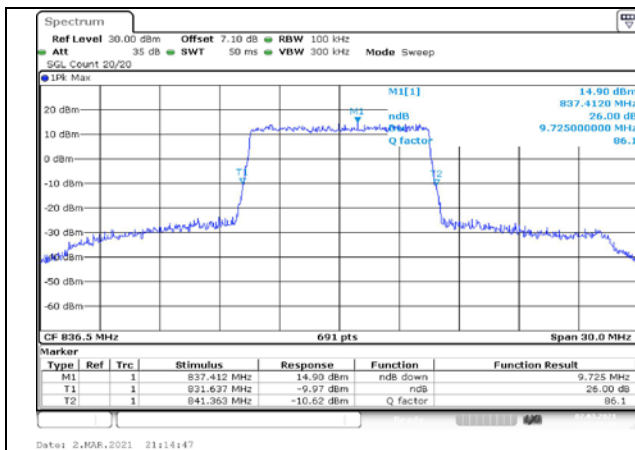


Fig.31

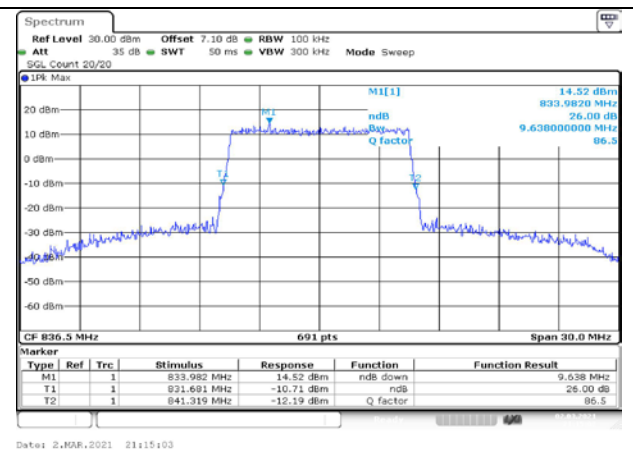


Fig.32

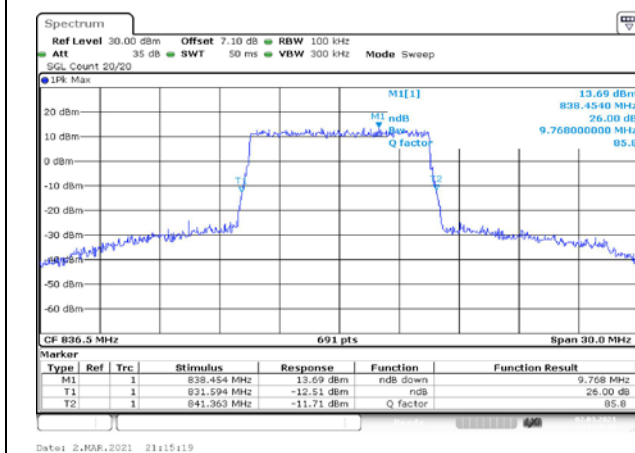


Fig.33

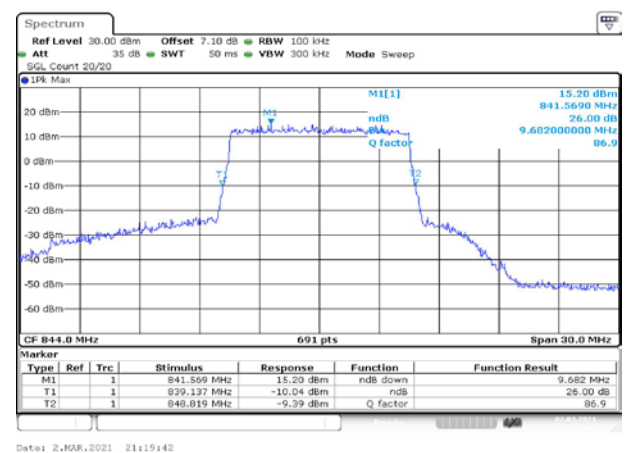


Fig.34

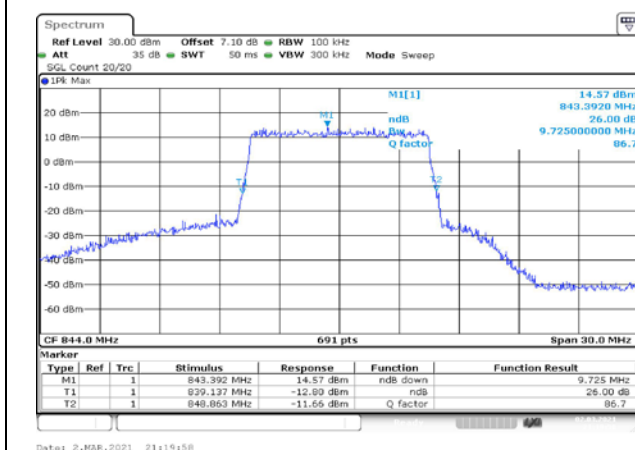


Fig.35

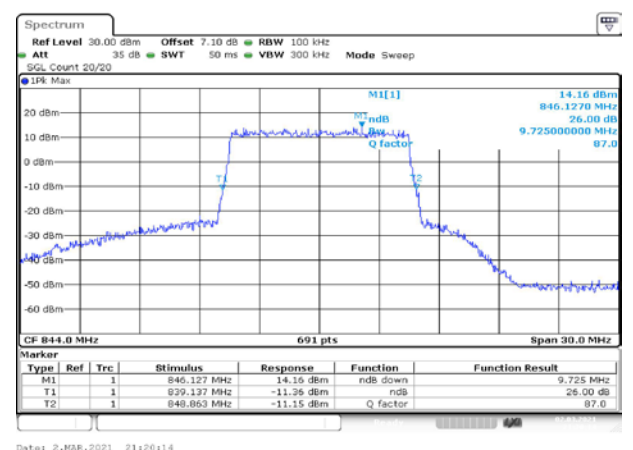


Fig.36

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

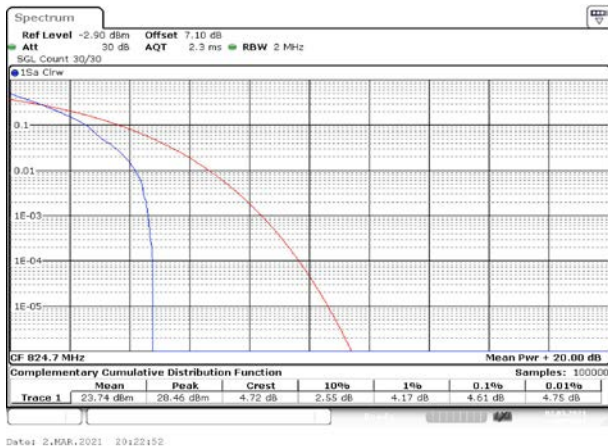


Fig.1

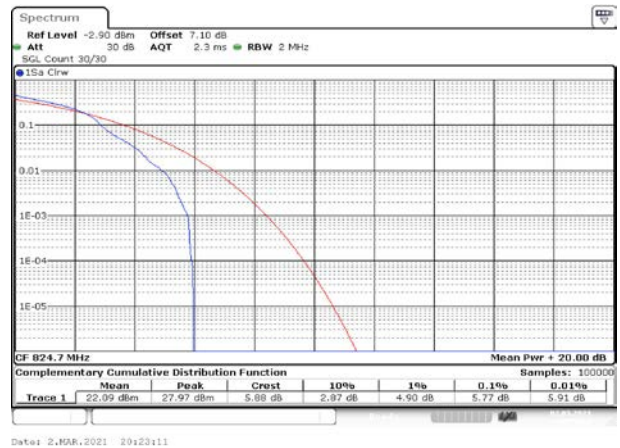


Fig.2

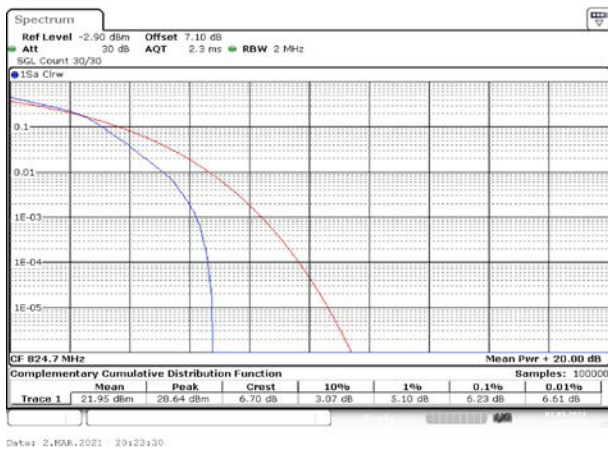


Fig.3

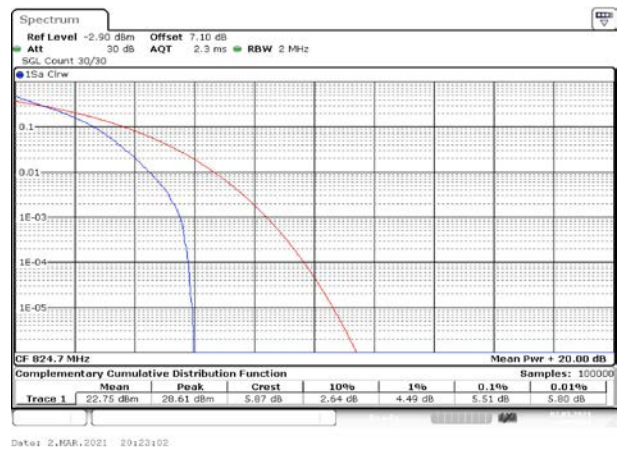


Fig.4

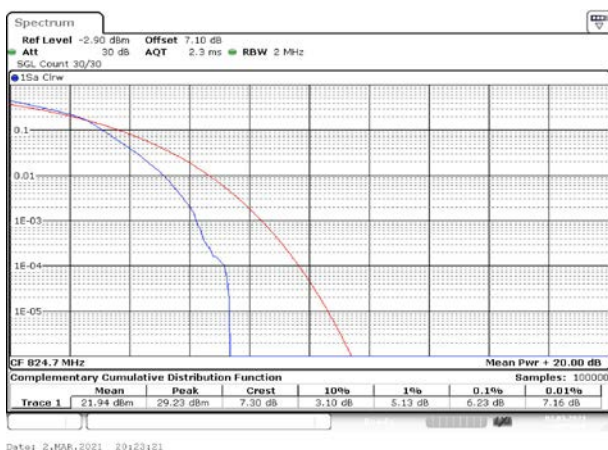


Fig.5

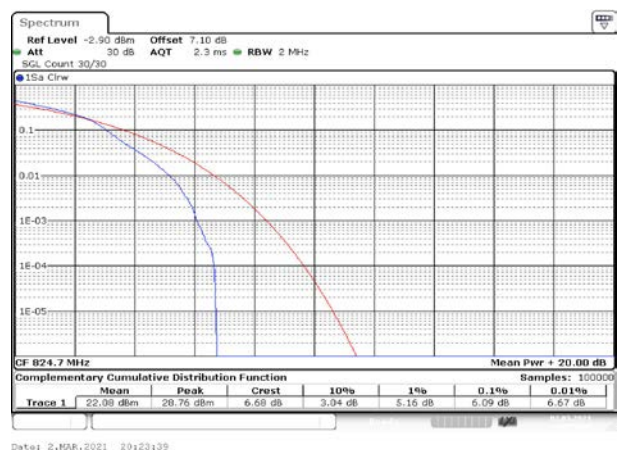


Fig.6

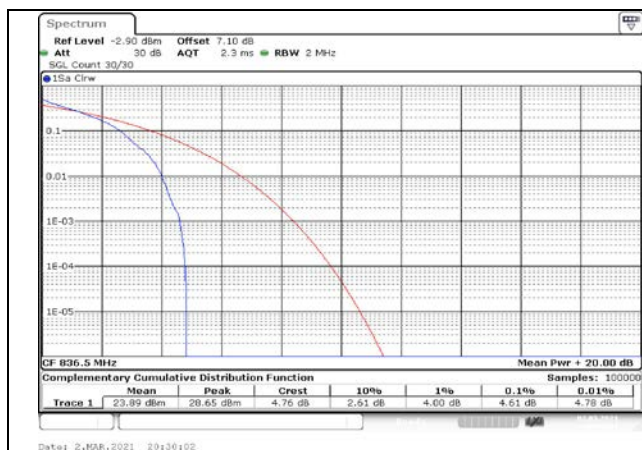


Fig.7

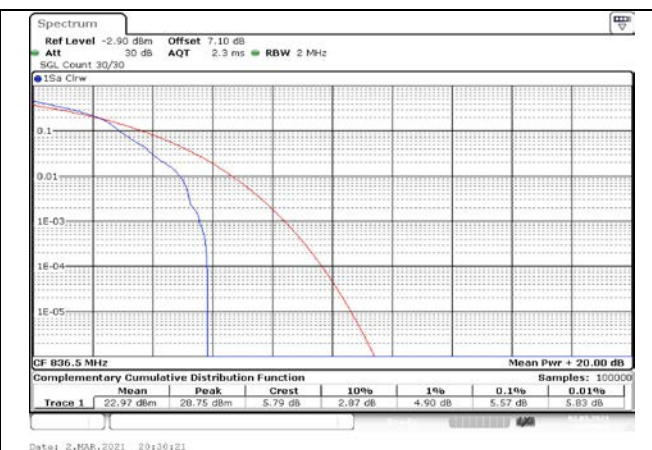


Fig.8

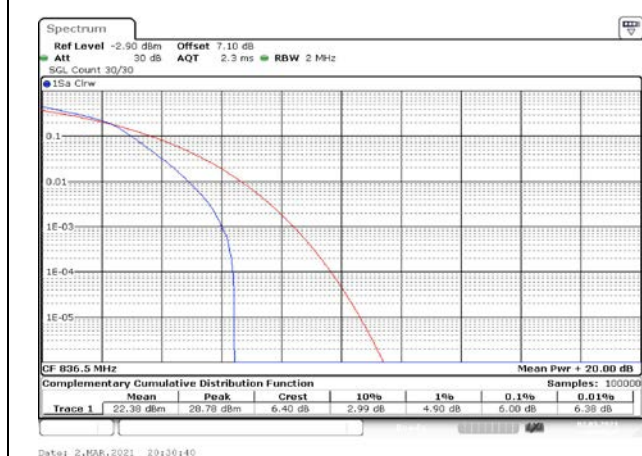


Fig.9

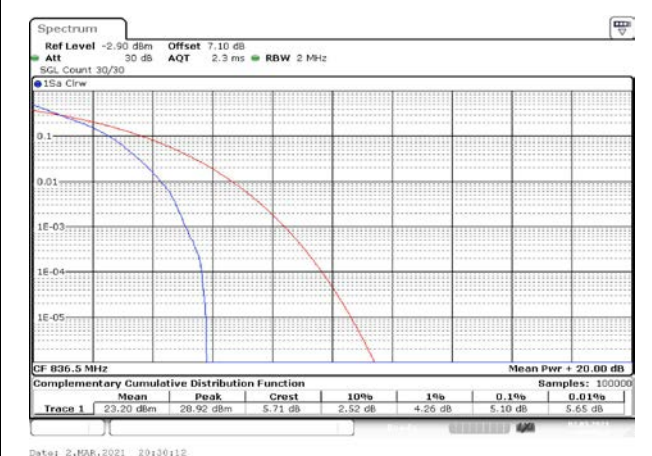


Fig.10

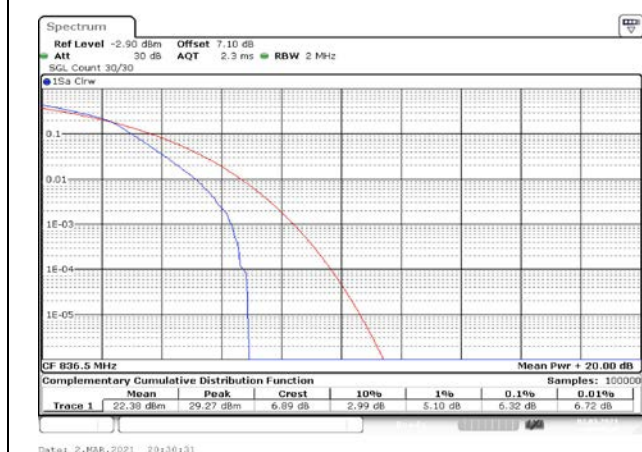


Fig.11

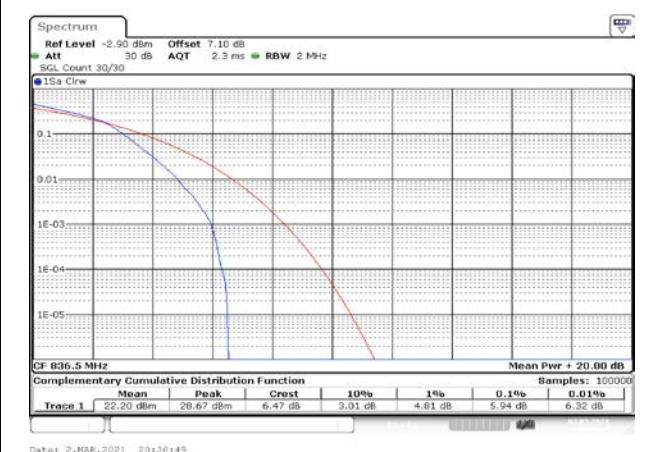


Fig.12

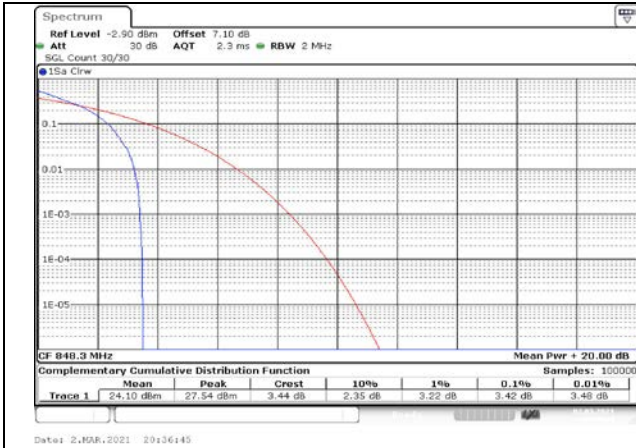


Fig.13

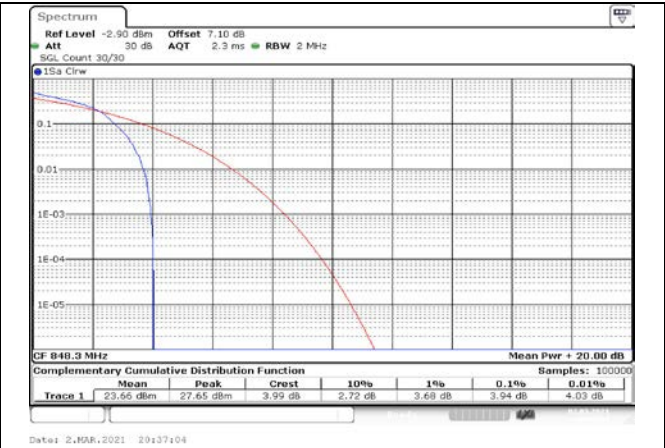


Fig.14

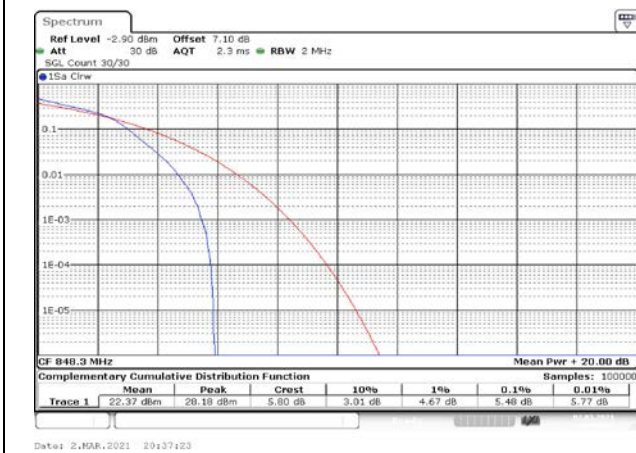


Fig.15

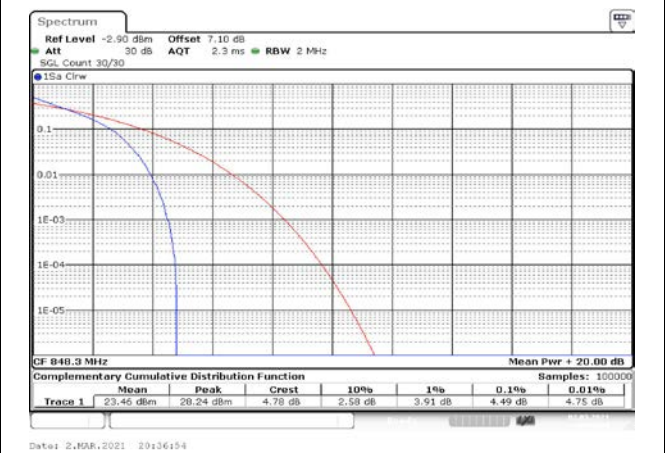


Fig.16

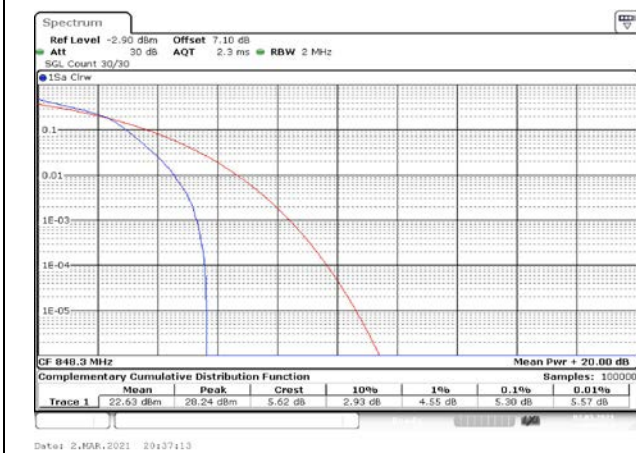


Fig.17

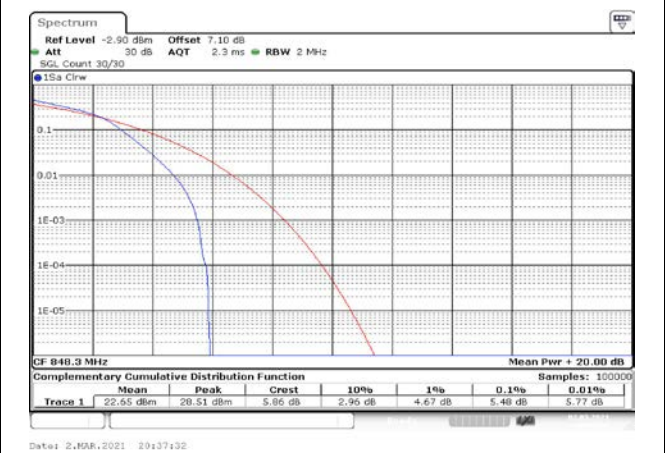


Fig.18