

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

UL Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	824.7	20407	1.4	1	0	23.71	
				1	3	23.56	
				1	5	23.56	
				3	0	23.59	
				3	1	23.54	
				3	3	23.53	
				6	0	22.54	
	836.5	20525		1	0	23.66	
				1	3	23.67	
				1	5	23.66	
				3	0	23.63	
				3	1	23.72	
				3	3	23.71	
				6	0	22.80	
	848.3	20643		1	0	23.81	
				1	3	23.83	
				1	5	23.74	
				3	0	23.83	
				3	1	23.79	
				3	3	23.79	
				6	0	22.88	
	16QAM	824.7		20407	1	0	22.70
					1	3	22.68
					1	5	22.76
3			0		22.87		
3			1		22.85		
3			3		22.85		
6			0		21.74		
836.5		20525	1	0	22.80		
			1	3	22.95		
			1	5	22.85		
			3	0	22.73		
			3	1	22.71		
			3	3	22.71		
			6	0	21.90		
848.3		20643	1	0	23.01		
			1	3	22.96		
			1	5	22.96		
			3	0	23.04		
			3	1	22.97		
			3	3	23.03		
			6	0	21.80		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	21.70
				1	3	21.73
				1	5	21.61
				3	0	21.61
				3	1	21.71
				3	3	21.67
	6	0		21.70		
	836.5	20525		1	0	21.87
				1	3	21.87
				1	5	21.83
				3	0	21.91
				3	1	21.90
				3	3	21.90
				6	0	21.90
				1	0	21.80
	848.3	20643		1	3	21.80
				1	5	21.86
				3	0	21.80
				3	1	21.80
				3	3	21.80
				6	0	21.80

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.38
				1	8	23.27
				1	14	23.26
				8	0	22.42
				8	4	22.35
				8	7	22.30
				15	0	22.39
	836.5	20525		1	0	23.33
				1	8	23.38
				1	14	23.33
				8	0	22.39
				8	4	22.37
				8	7	22.38
				15	0	22.33
	847.5	20635		1	0	23.43
				1	8	23.27
				1	14	23.36
				8	0	22.43
				8	4	22.43
				8	7	22.36
				15	0	22.49
16QAM	825.5	20415	1	0	22.56	
			1	8	22.40	
			1	14	22.43	
			8	0	21.39	
			8	4	21.37	
			8	7	21.33	
			15	0	21.30	
	836.5	20525	1	0	22.60	
			1	8	22.59	
			1	14	22.45	
			8	0	21.48	
			8	4	21.37	
			8	7	21.44	
			15	0	21.41	
	847.5	20635	1	0	22.57	
			1	8	22.50	
			1	14	22.66	
			8	0	21.60	
			8	4	21.49	
			8	7	21.44	
			15	0	21.49	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	21.29
				1	8	21.29
				1	14	21.36
				8	0	21.32
				8	4	21.28
				8	7	21.28
				15	0	21.38
	836.5	20525		1	0	21.45
				1	8	21.44
				1	14	21.37
				8	0	21.36
				8	4	21.42
				8	7	21.48
				15	0	21.45
	847.5	20635		1	0	21.50
				1	8	21.55
				1	14	21.48
				8	0	21.48
				8	4	21.47
				8	7	21.46
				15	0	21.51

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	826.5	20425	5	1	0	23.37	
				1	12	23.13	
				1	24	23.16	
				12	0	22.37	
				12	7	22.31	
				12	13	22.26	
				25	0	22.34	
	836.5	20525		1	0	23.45	
				1	12	23.38	
				1	24	23.29	
				12	0	22.40	
				12	7	22.37	
				12	13	22.41	
				25	0	22.43	
	846.5	20625		1	0	23.46	
				1	12	23.36	
				1	24	23.31	
				12	0	22.53	
				12	7	22.39	
				12	13	22.39	
				25	0	22.46	
	16QAM	826.5		20425	1	0	22.39
					1	12	22.16
					1	24	22.36
12					0	21.36	
12					7	21.26	
12					13	21.26	
25					0	21.45	
836.5		20525		1	0	22.82	
				1	12	22.57	
				1	24	22.62	
				12	0	21.50	
				12	7	21.45	
				12	13	21.48	
				25	0	21.34	
846.5		20625		1	0	22.72	
				1	12	22.56	
				1	24	22.37	
				12	0	21.52	
				12	7	21.51	
				12	13	21.44	
				25	0	21.47	

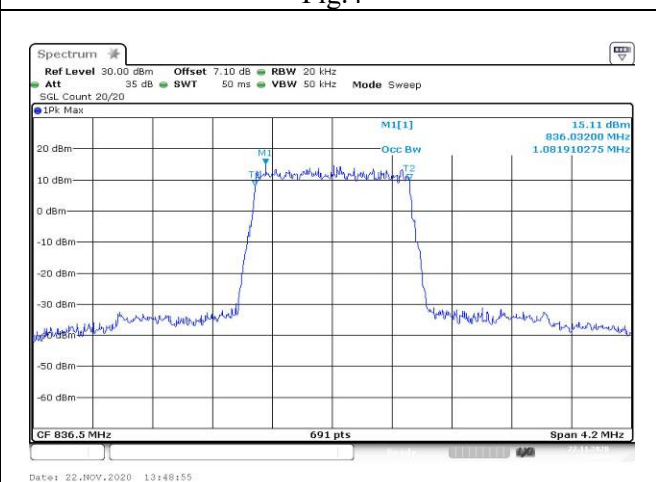
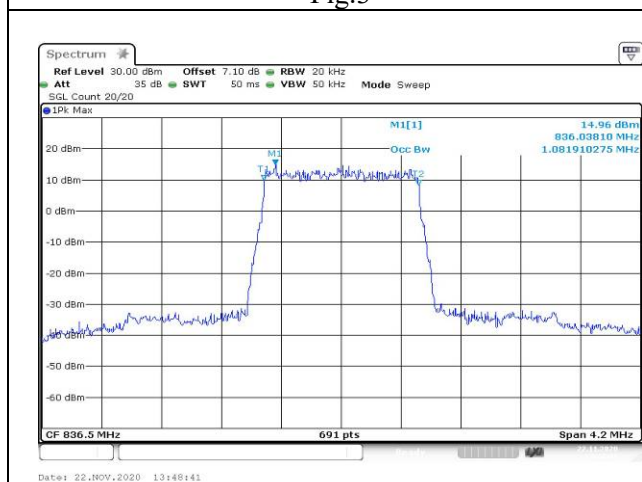
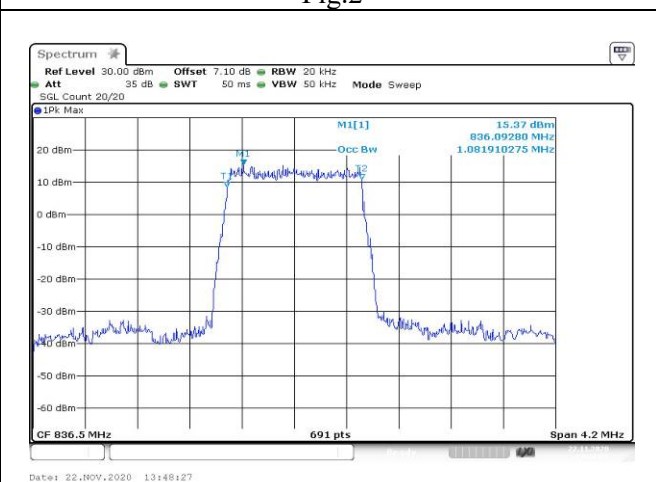
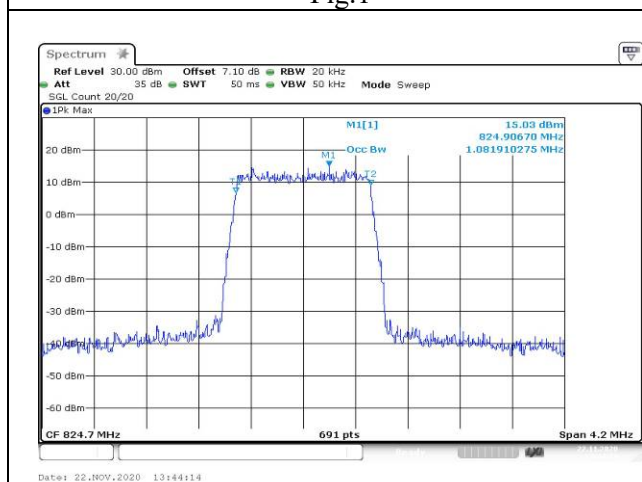
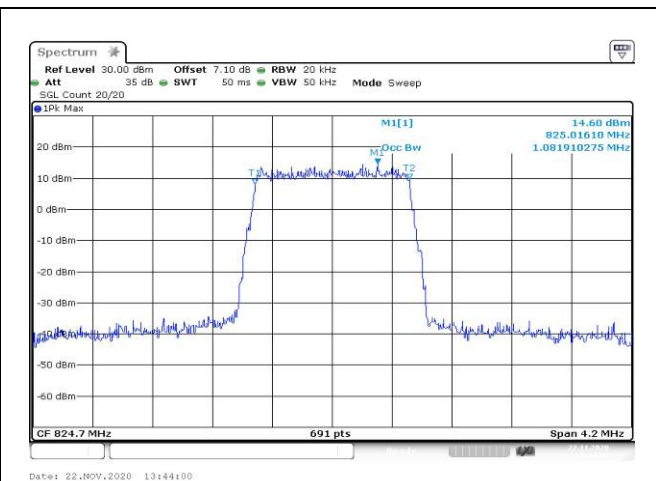
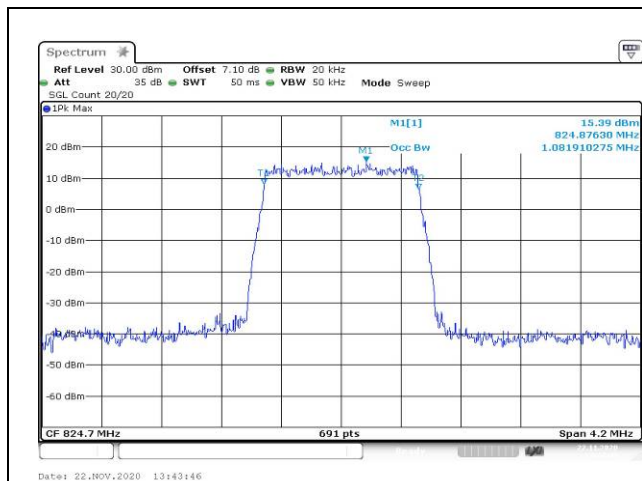
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	21.37
				1	12	21.39
				1	24	21.46
				12	0	21.42
				12	7	21.35
				12	13	21.45
	25	0		21.44		
	836.5	20525		1	0	21.41
				1	12	21.36
				1	24	21.43
				12	0	21.47
				12	7	21.43
				12	13	21.43
	25	0		21.40		
	846.5	20625		1	0	21.48
				1	12	21.50
				1	24	21.44
				12	0	21.48
				12	7	21.46
				12	13	21.46
				25	0	21.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	829	20450	10	1	0	23.21	
				1	25	23.29	
				1	49	23.30	
				25	0	22.26	
				25	12	22.34	
				25	25	22.37	
				50	0	22.33	
	836.5	20525		1	0	23.31	
				1	25	23.35	
				1	49	23.27	
				25	0	22.34	
				25	12	22.33	
				25	25	22.36	
				50	0	22.34	
	844	20600		1	0	23.43	
				1	25	23.14	
				1	49	23.13	
				25	0	22.42	
				25	12	22.44	
				25	25	22.40	
				50	0	22.41	
	16QAM	829		20450	1	0	22.40
					1	25	22.43
					1	49	22.78
25					0	21.31	
25					12	21.35	
25					25	21.42	
50					0	21.41	
836.5		20525		1	0	22.47	
				1	25	22.47	
				1	49	22.51	
				25	0	21.40	
				25	12	21.56	
				25	25	21.56	
				50	0	21.37	
844		20600		1	0	23.03	
				1	25	22.74	
				1	49	22.73	
				25	0	21.47	
				25	12	21.57	
				25	25	21.52	
				50	0	21.44	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	21.38
				1	25	21.32
				1	49	21.38
				25	0	21.37
				25	12	21.39
				25	25	21.38
	836.5	20525		50	0	21.37
				1	0	21.45
				1	25	21.26
				1	49	21.33
				25	0	21.41
				25	12	21.43
	844	20600		25	25	21.41
				50	0	21.43
				1	0	21.50
				1	25	21.39
				1	49	21.50
				25	0	21.36
				25	12	21.44
				25	25	21.43
				50	0	21.45

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	1.088	Fig.7	1.082	Fig.8	1.076	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	2.696	Fig.13	2.683	Fig.14	2.683	Fig.15
	847.5	20635		15	0	2.670	Fig.16	2.683	Fig.17	2.670	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	8.857	Fig.31	8.944	Fig.32	8.857	Fig.33
	844	20600		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36



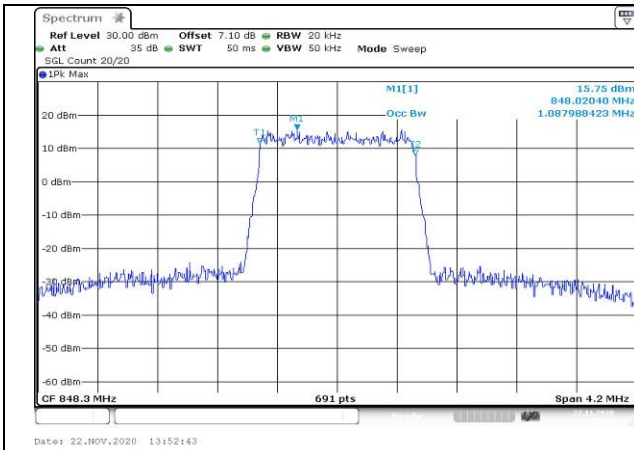


Fig.7

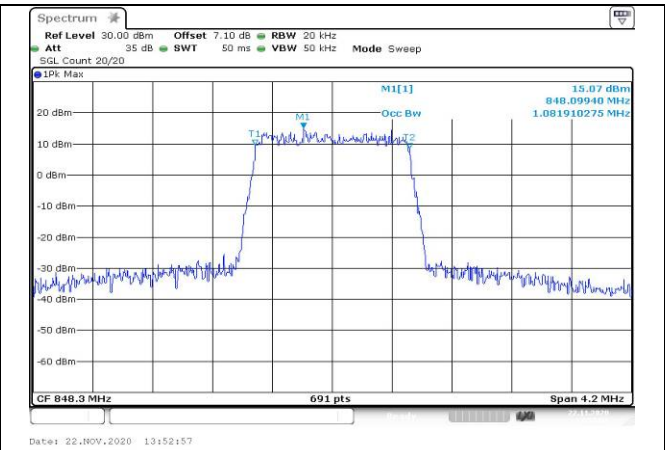


Fig.8

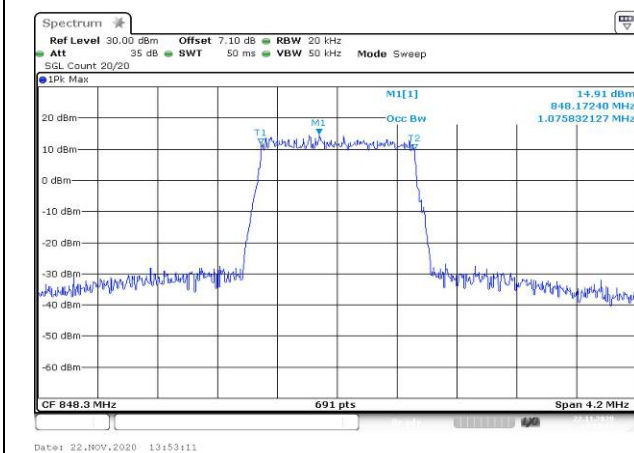


Fig.9

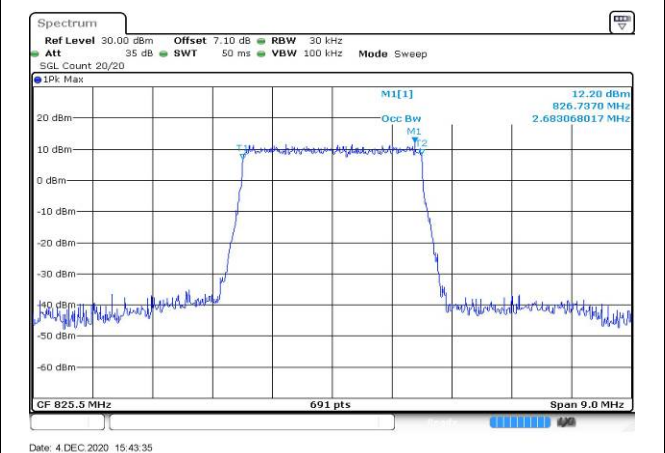


Fig.10

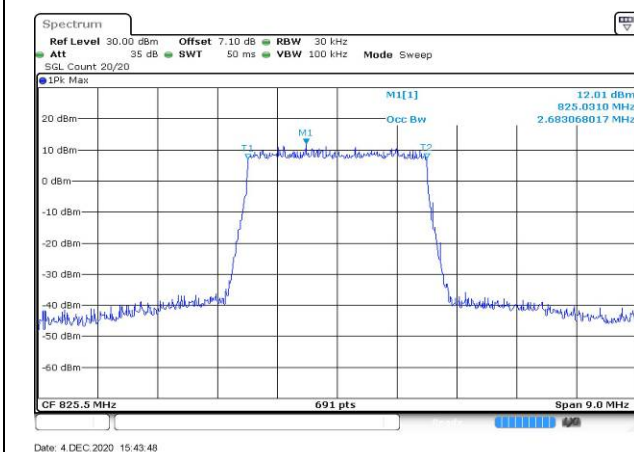


Fig.11

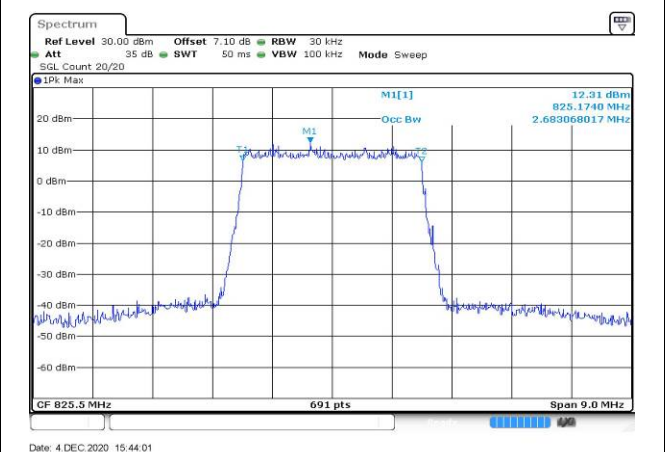


Fig.12

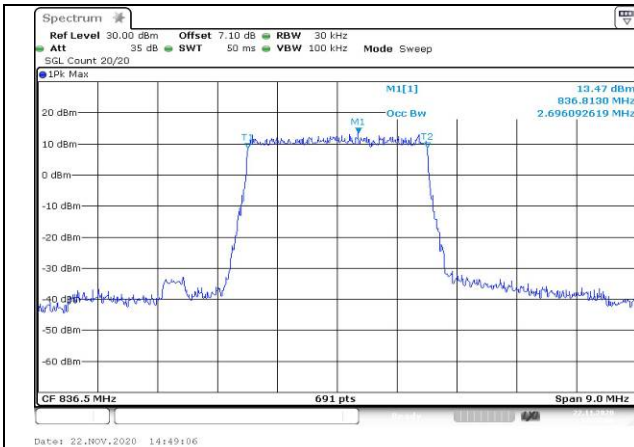


Fig.13

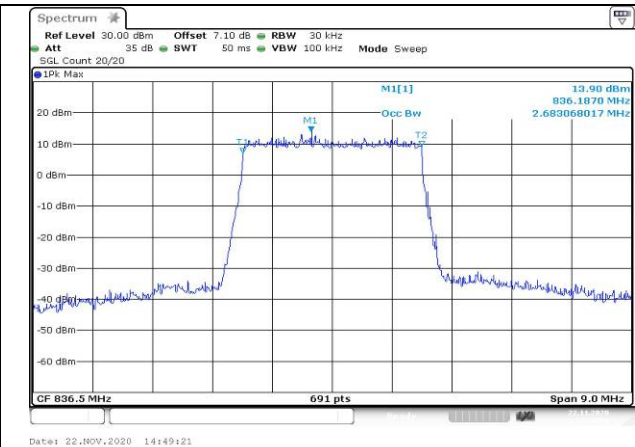


Fig.14

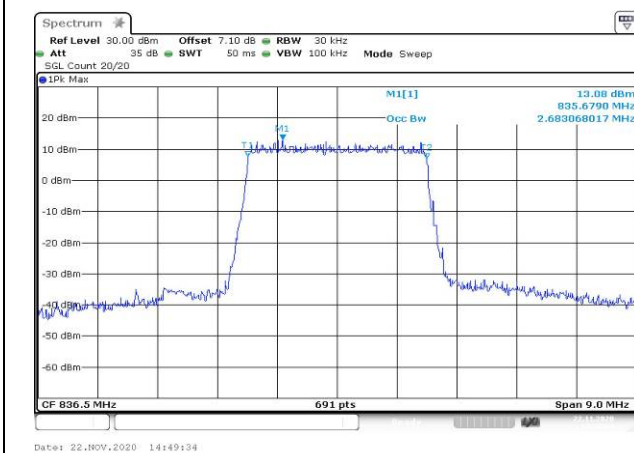


Fig.15

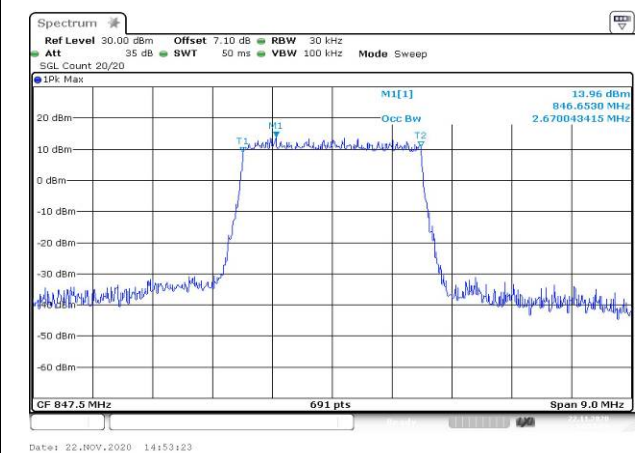


Fig.16

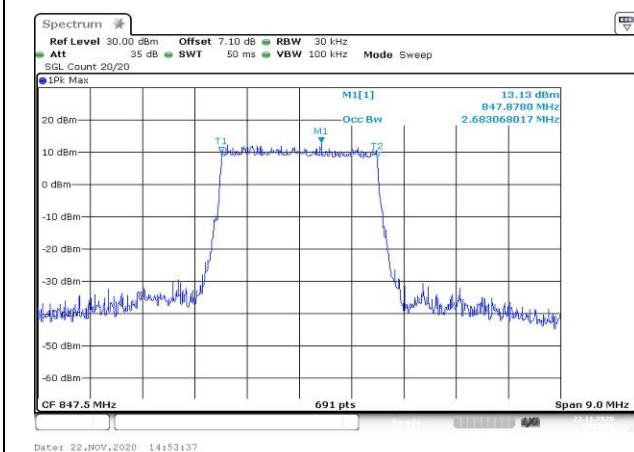


Fig.17

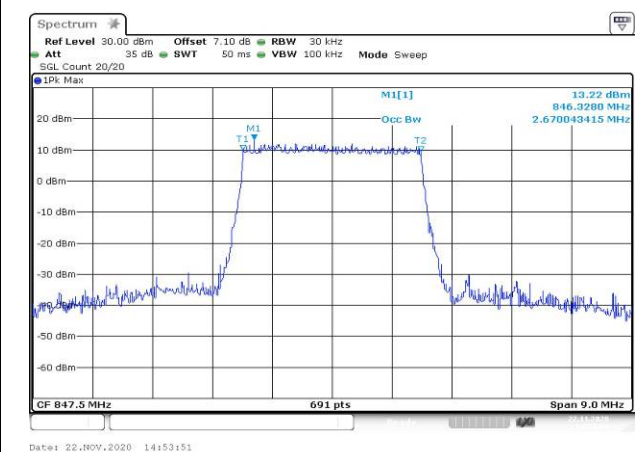


Fig.18

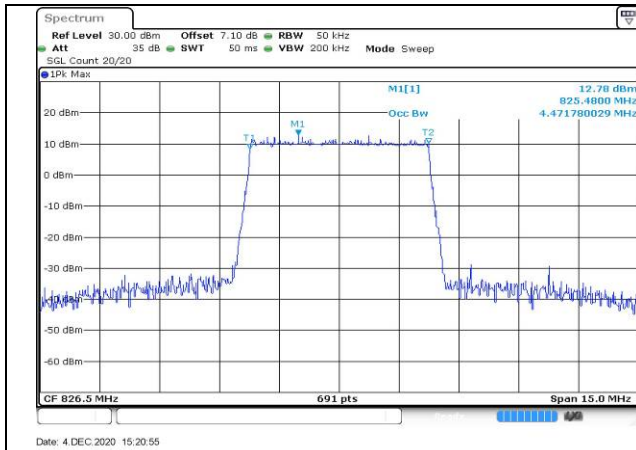


Fig.19

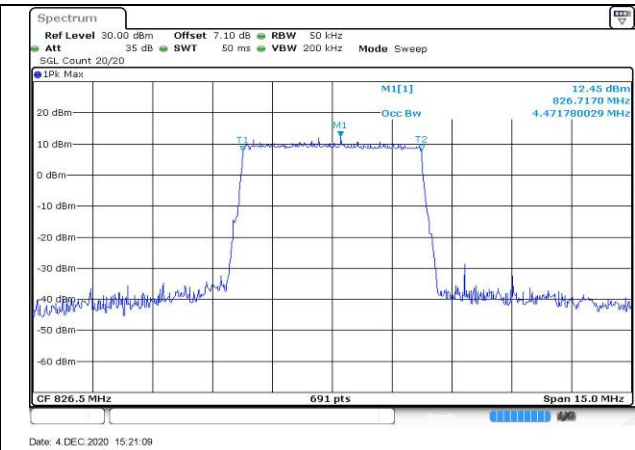


Fig.20

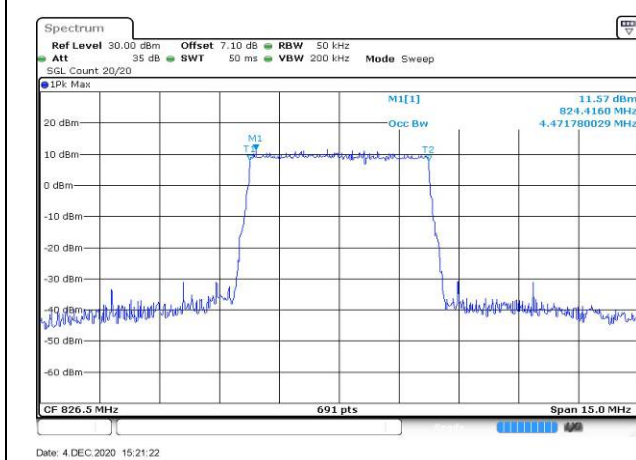


Fig.21

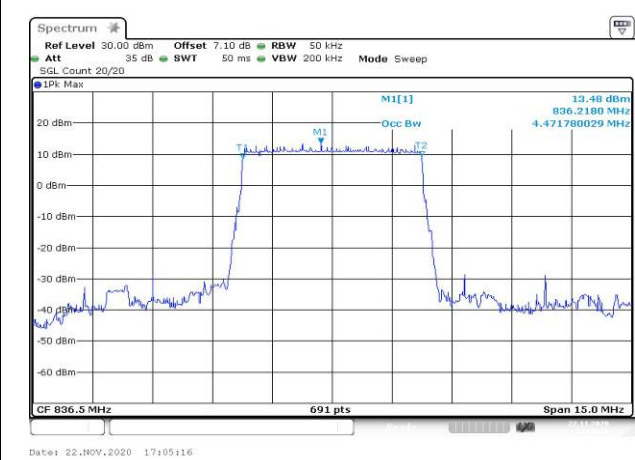


Fig.22

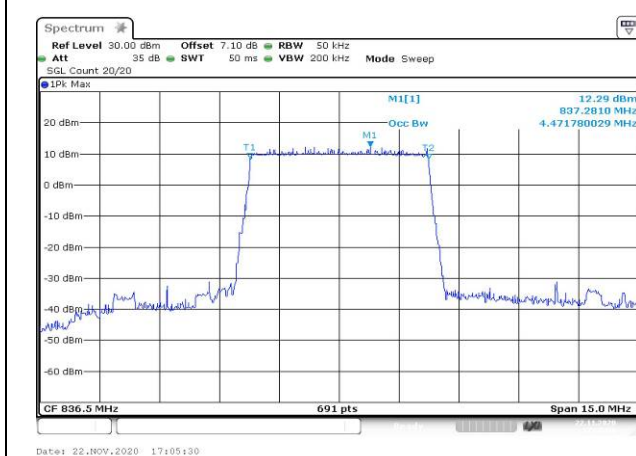


Fig.23

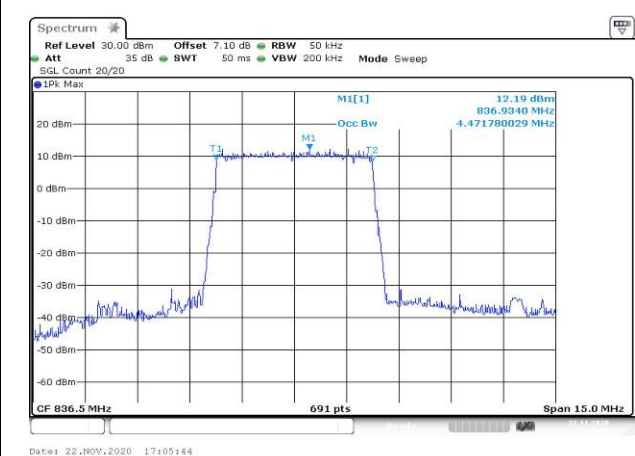


Fig.24

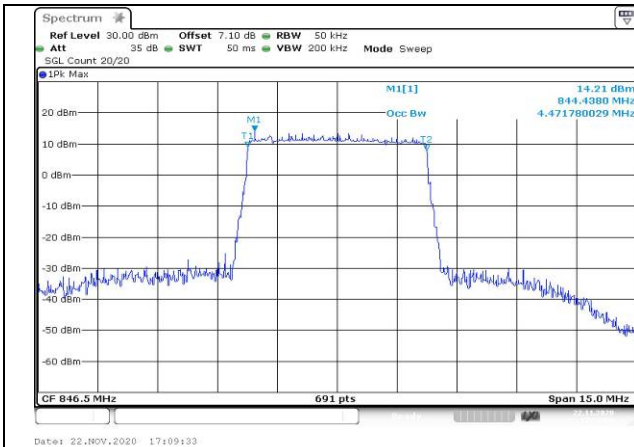


Fig.25

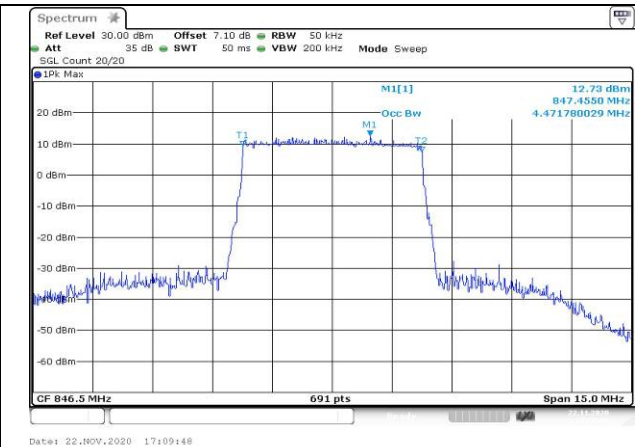


Fig.26

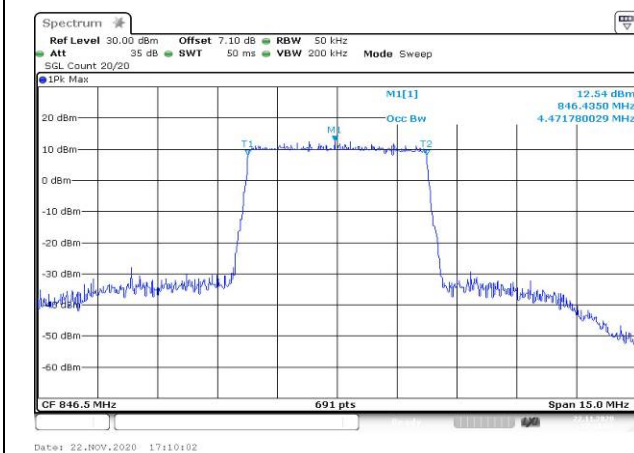


Fig.27

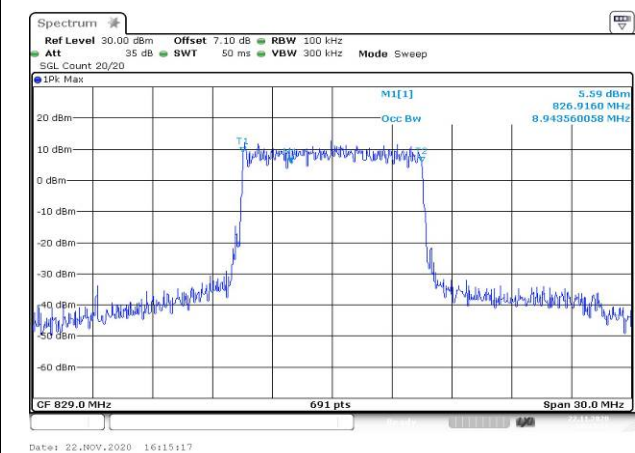


Fig.28

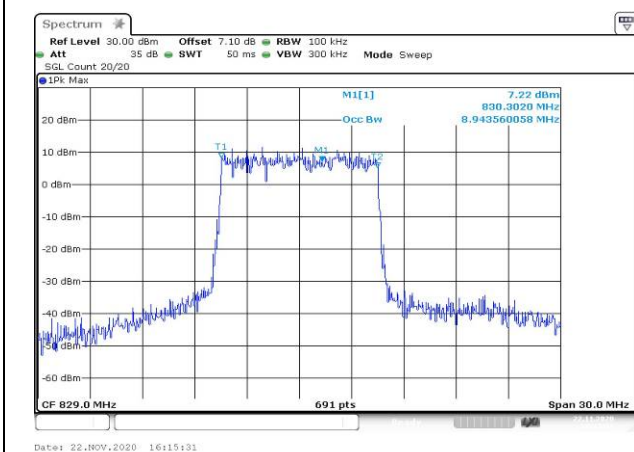


Fig.29

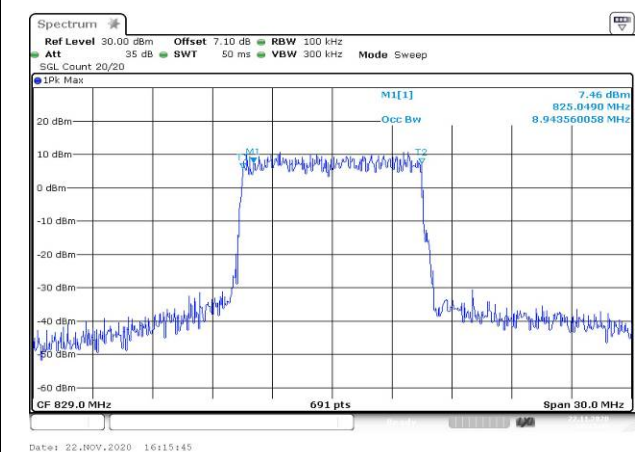


Fig.30

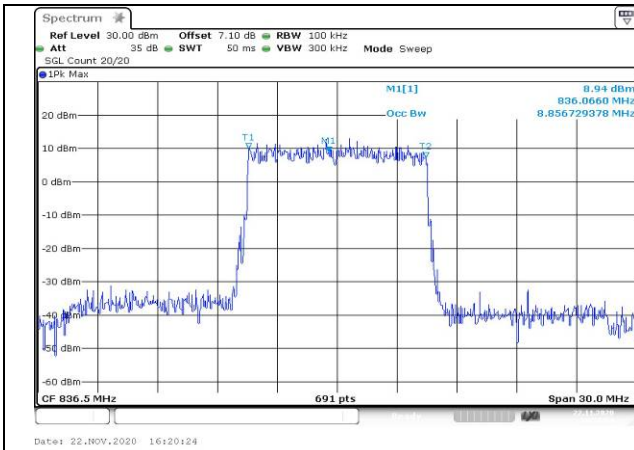


Fig.31

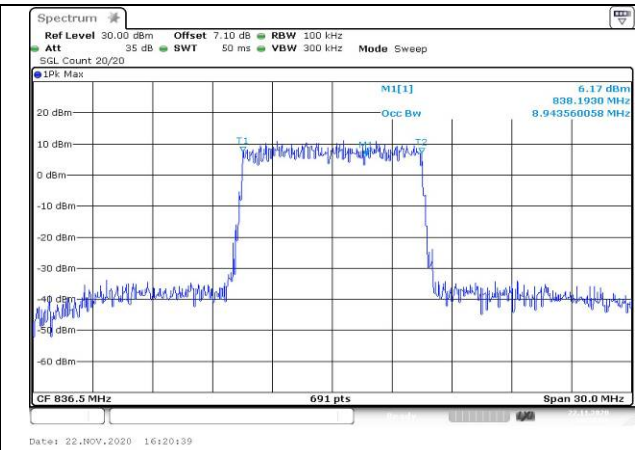


Fig.32

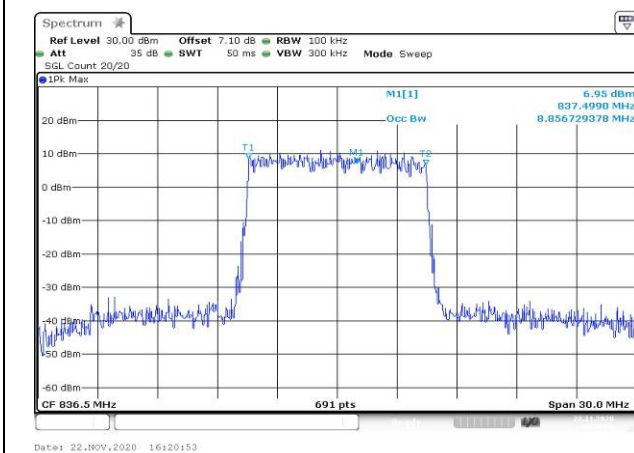


Fig.33

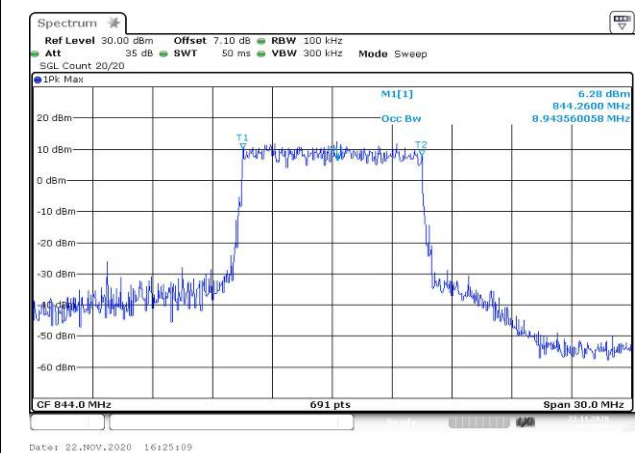


Fig.34

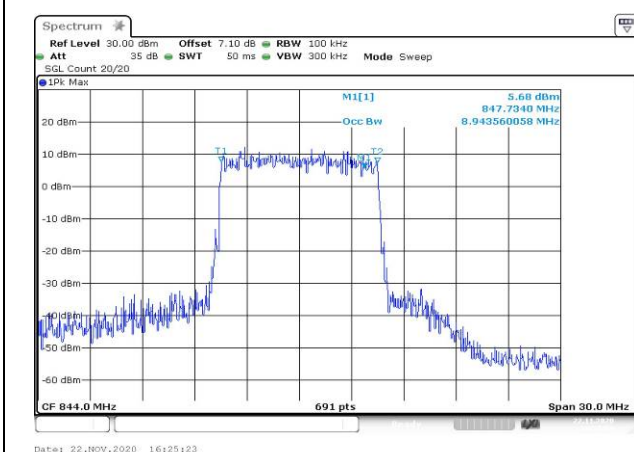


Fig.35

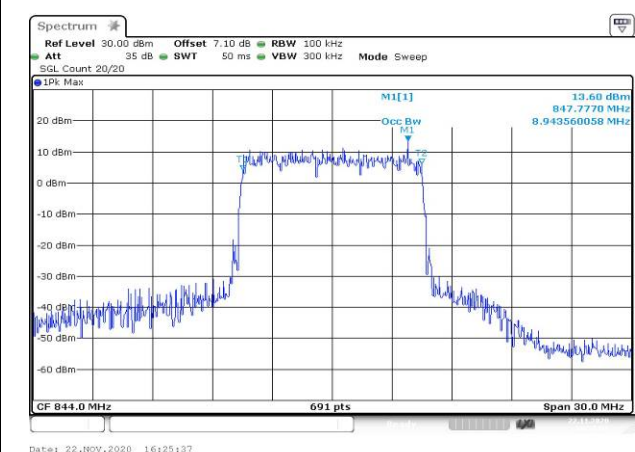


Fig.36

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	1.216	Fig.1	1.210	Fig.2	1.210	Fig.3
	836.5	20525		6	0	1.210	Fig.4	1.216	Fig.5	1.210	Fig.6
	848.3	20643		6	0	1.216	Fig.7	1.216	Fig.8	1.216	Fig.9
	825.5	20415	3	15	0	2.931	Fig.10	2.918	Fig.11	2.918	Fig.12
	836.5	20525		15	0	2.931	Fig.13	2.944	Fig.14	2.904	Fig.15
	847.5	20635		15	0	2.918	Fig.16	2.918	Fig.17	2.944	Fig.18
	826.5	20425	5	25	0	4.884	Fig.19	4.841	Fig.20	4.776	Fig.21
	836.5	20525		25	0	4.819	Fig.22	4.863	Fig.23	4.863	Fig.24
	846.5	20625		25	0	4.841	Fig.25	4.841	Fig.26	4.884	Fig.27
	829	20450	10	50	0	9.638	Fig.28	9.551	Fig.29	9.465	Fig.30
	836.5	20525		50	0	9.551	Fig.31	9.638	Fig.32	9.551	Fig.33
	844	20600		50	0	9.682	Fig.34	9.638	Fig.35	9.595	Fig.36

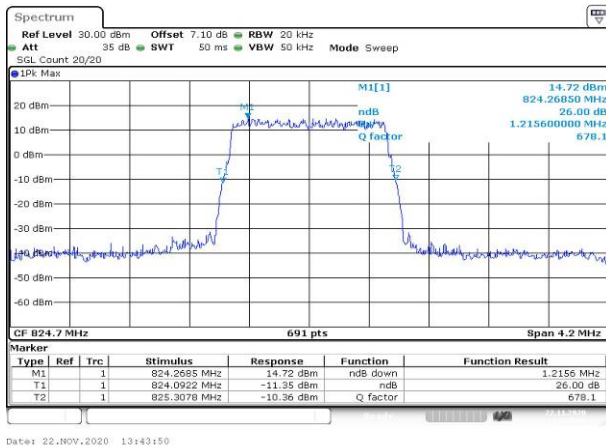


Fig.1

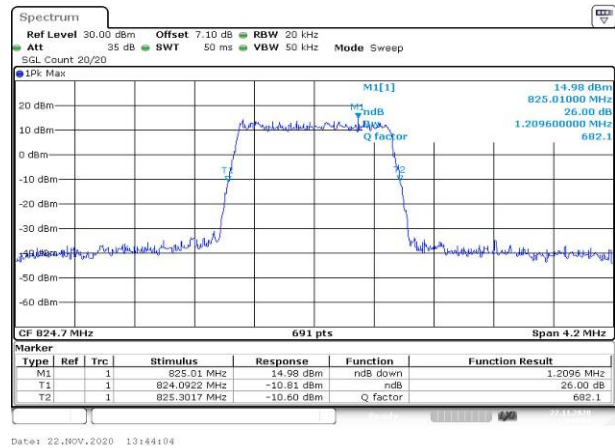


Fig.2

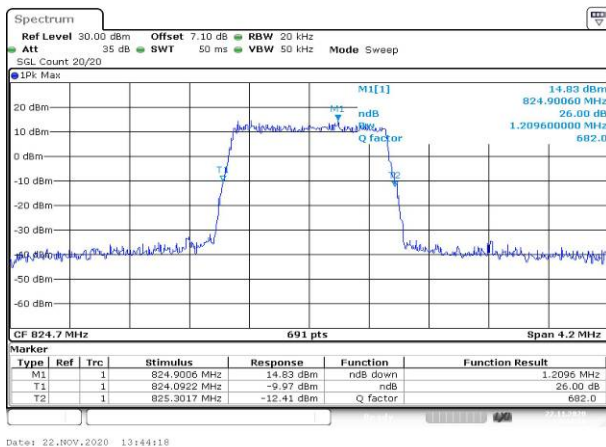


Fig.3

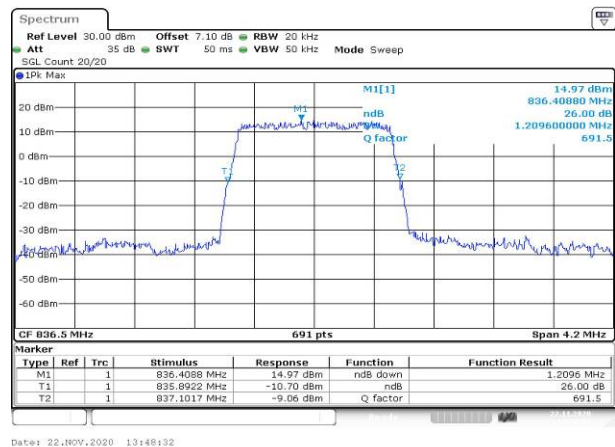


Fig.4

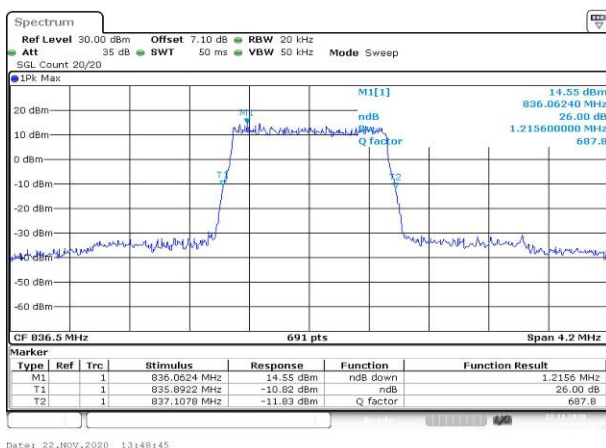


Fig.5

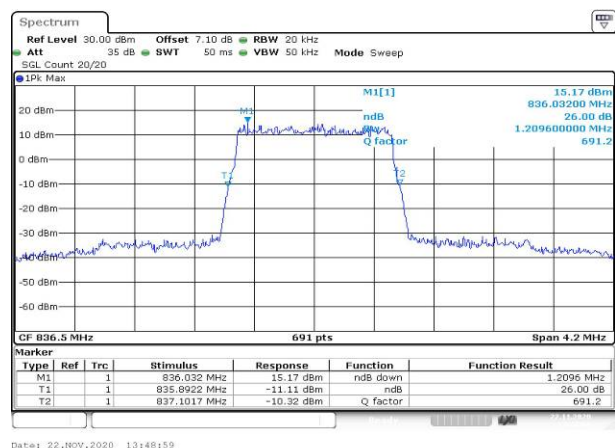


Fig.6

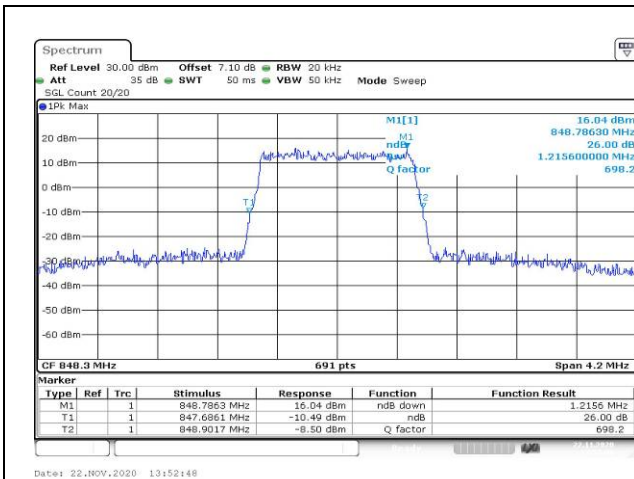


Fig.7

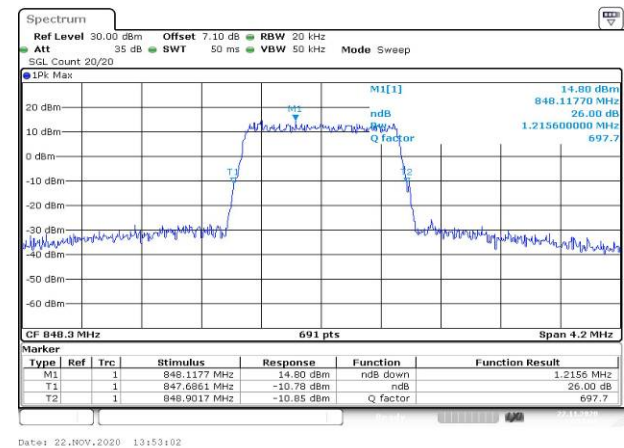


Fig.8

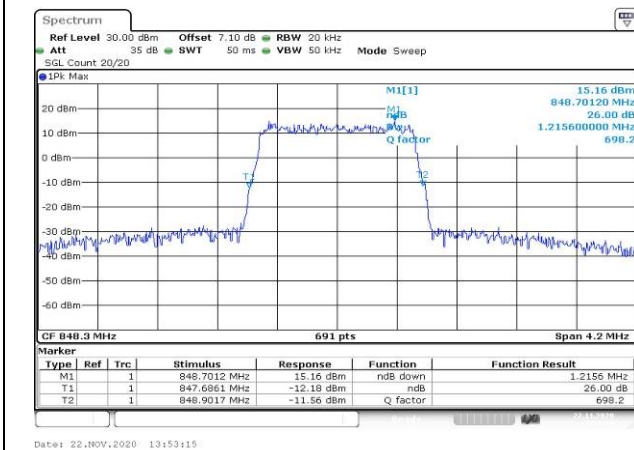


Fig.9

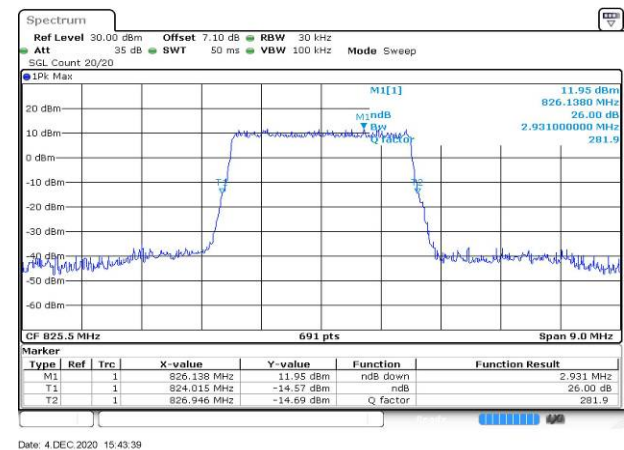


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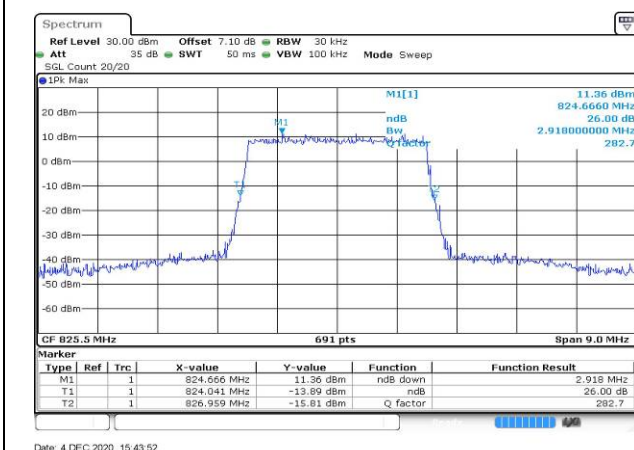


Fig.11

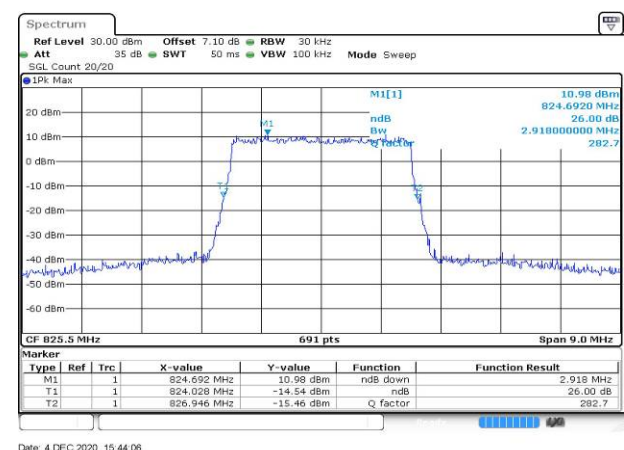


Fig.12

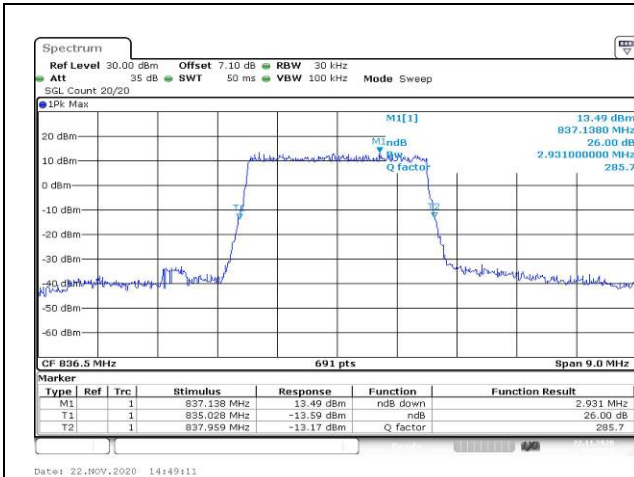


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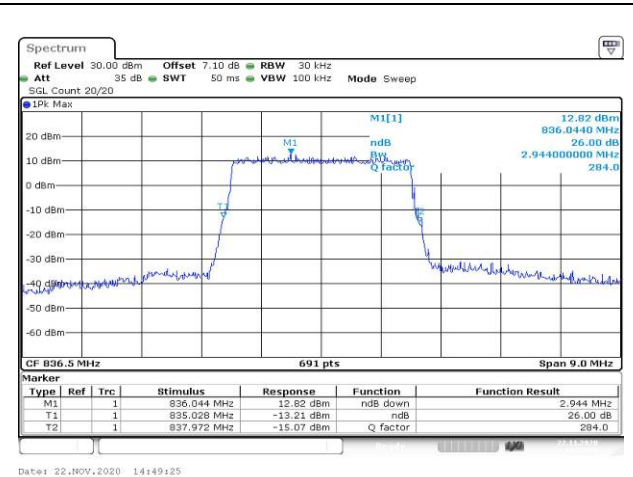


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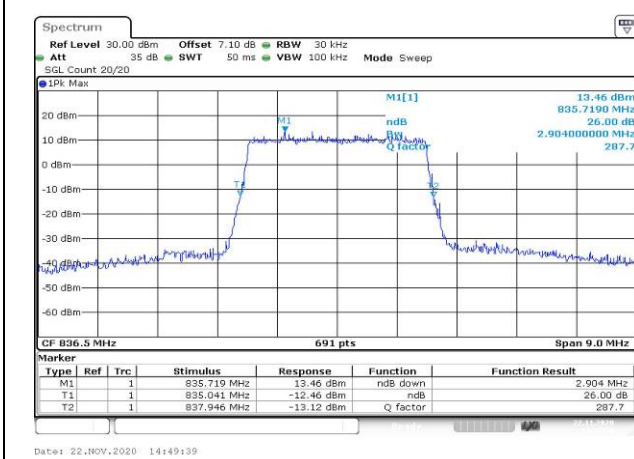


Fig.15

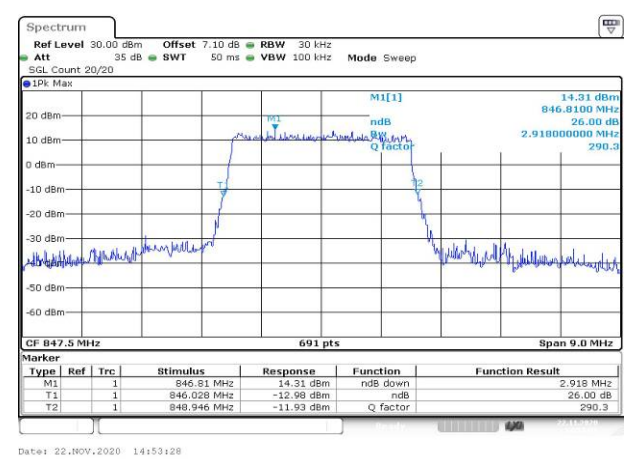


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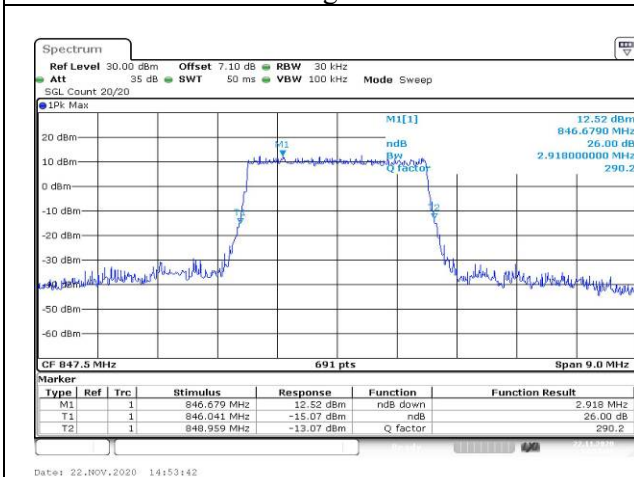


Fig.17

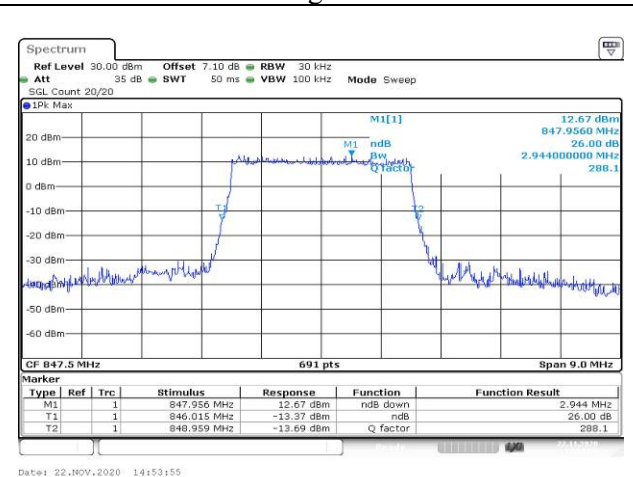


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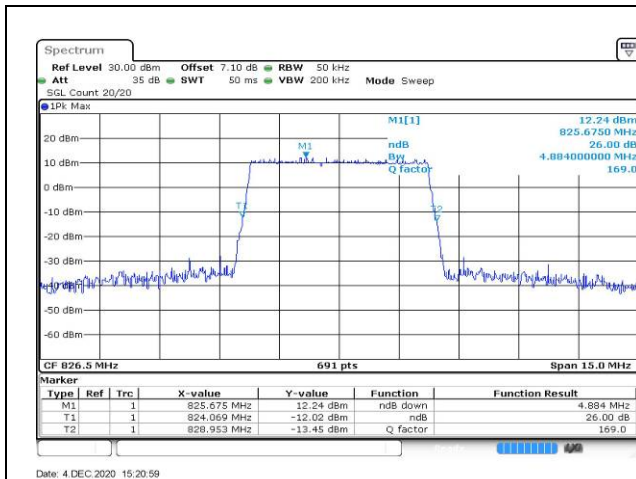


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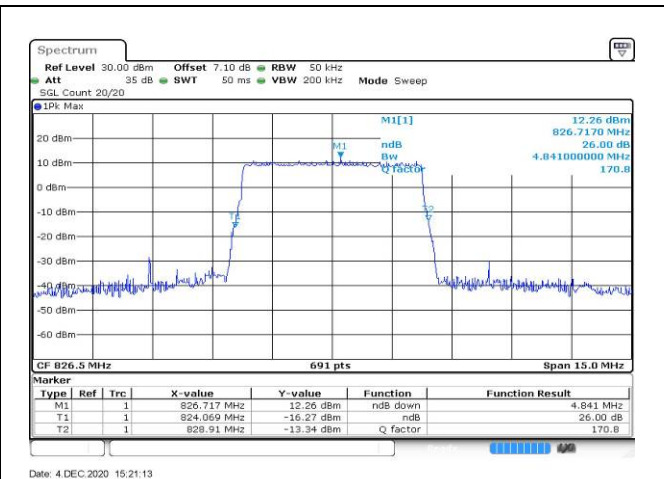


Fig.20

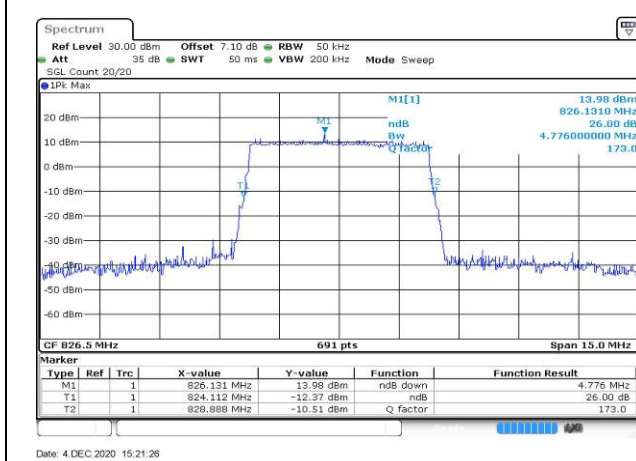


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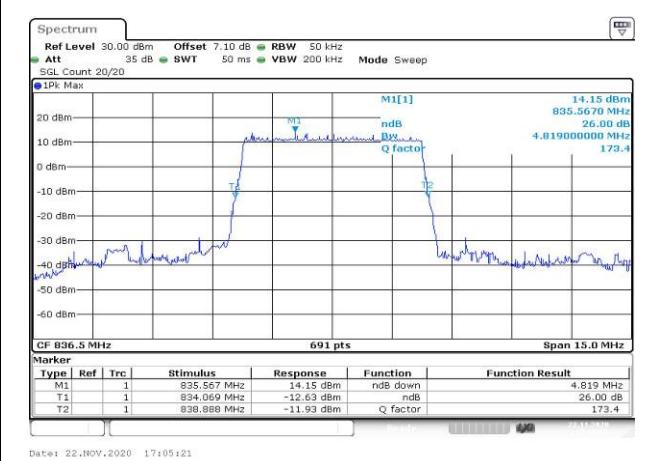


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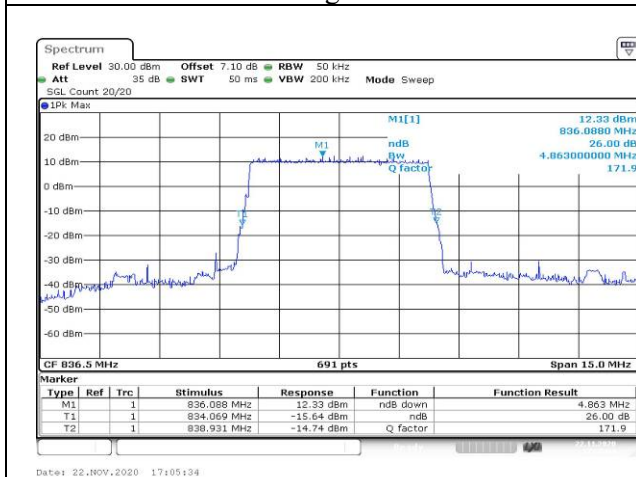


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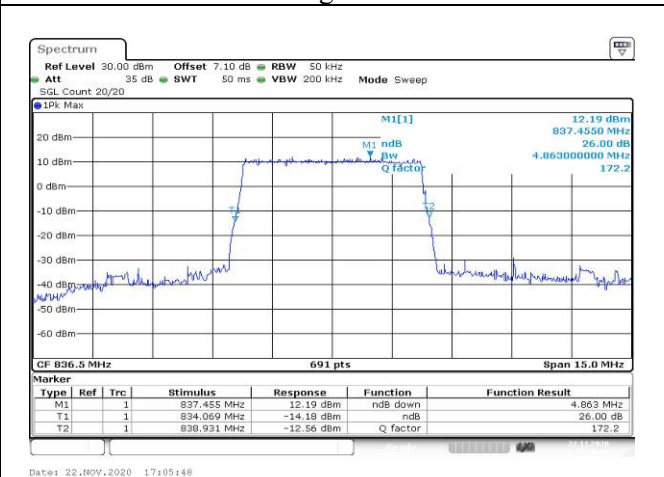


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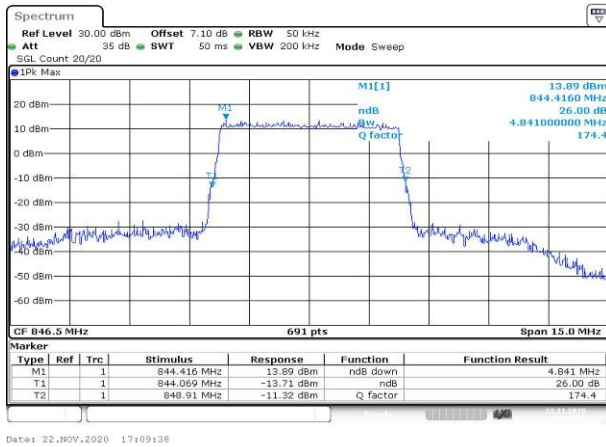


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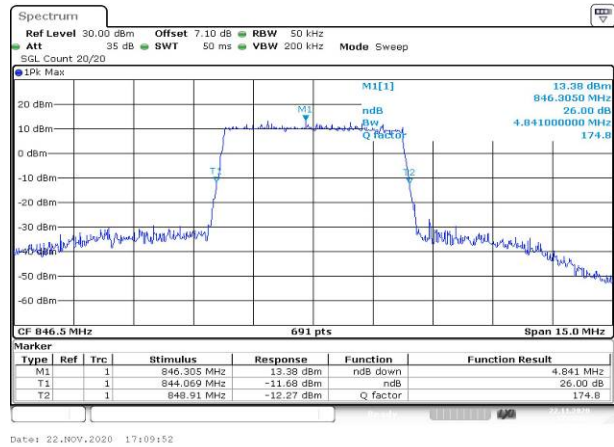


Fig.26

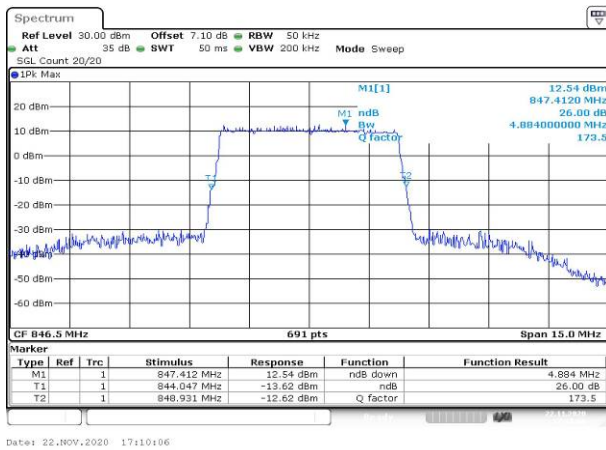


Fig.27

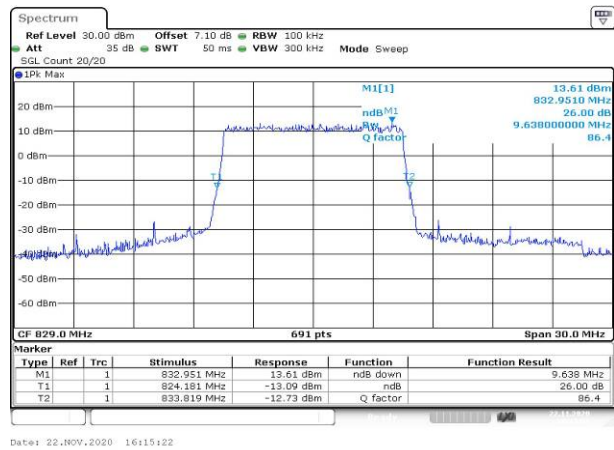


Fig.28

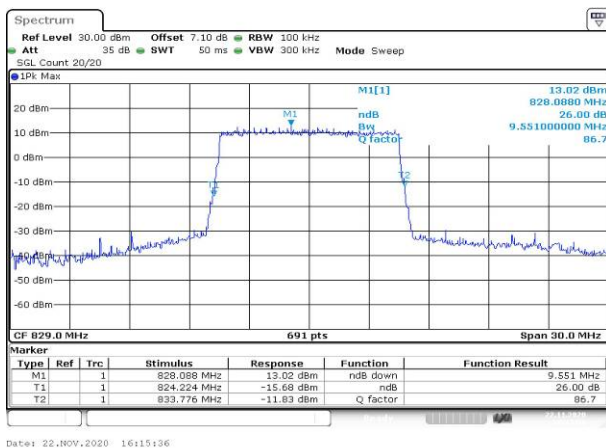


Fig.29

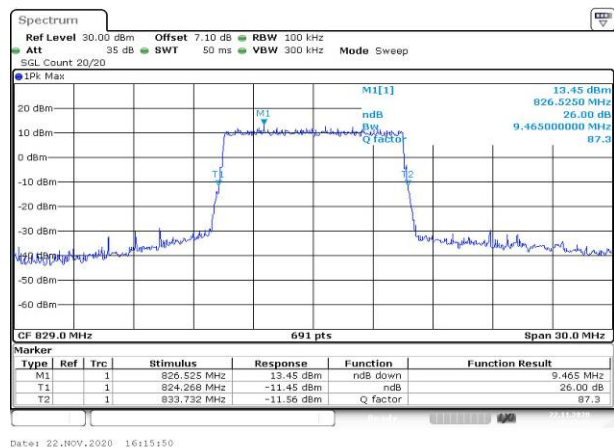


Fig.30

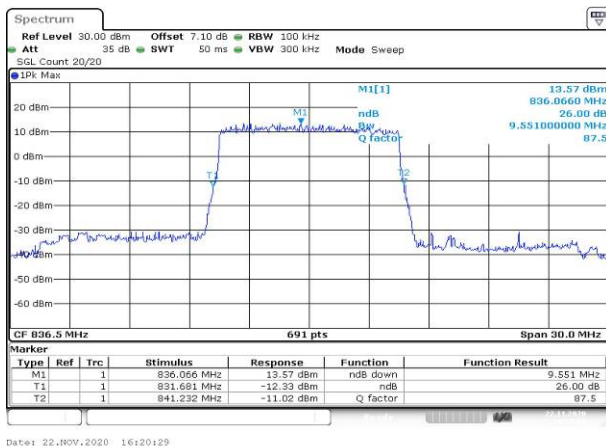


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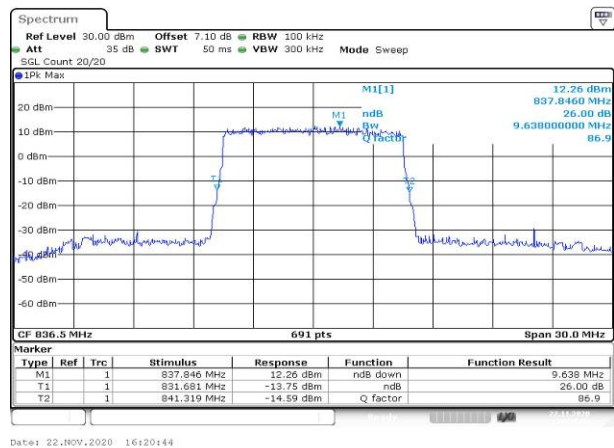


Fig.32

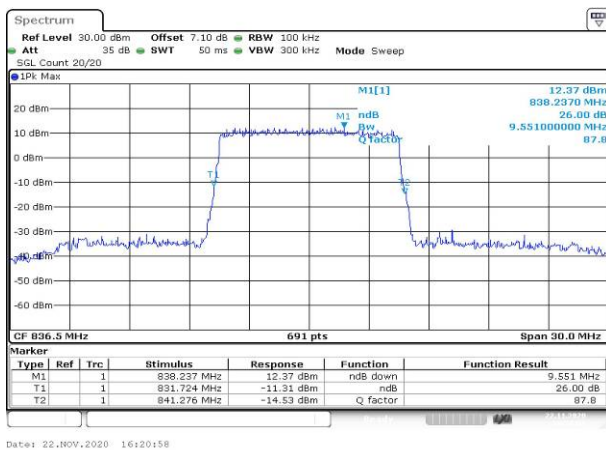


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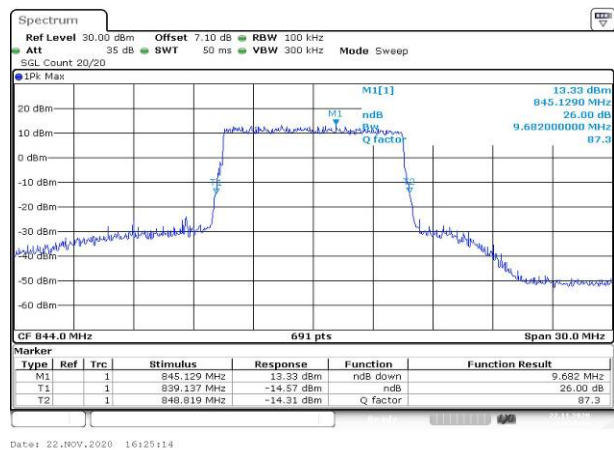


Fig.34



Fig.35

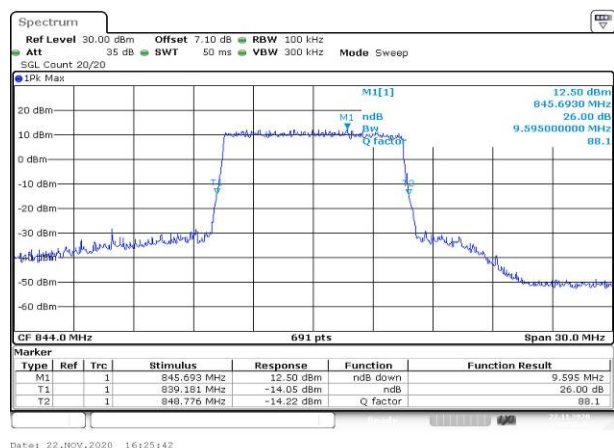


Fig.36

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

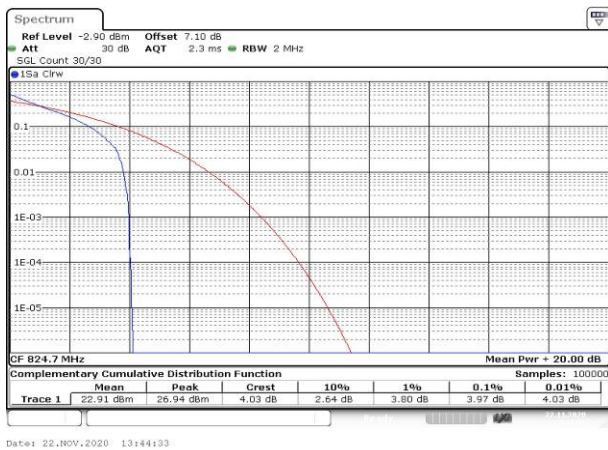


Fig.1

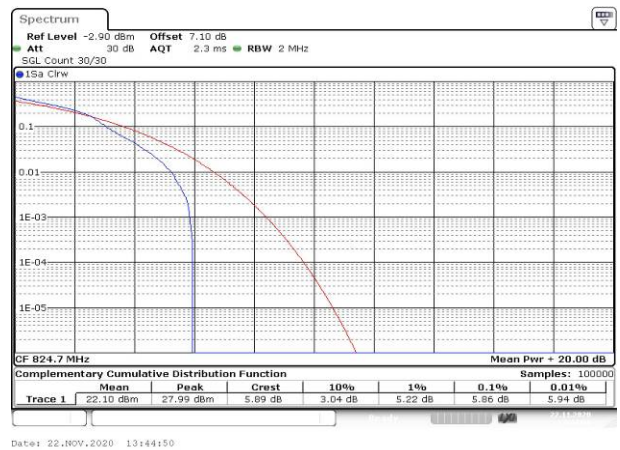


Fig.2

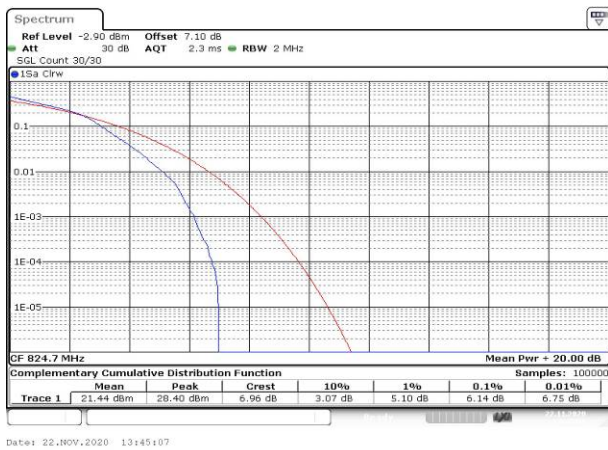


Fig.3

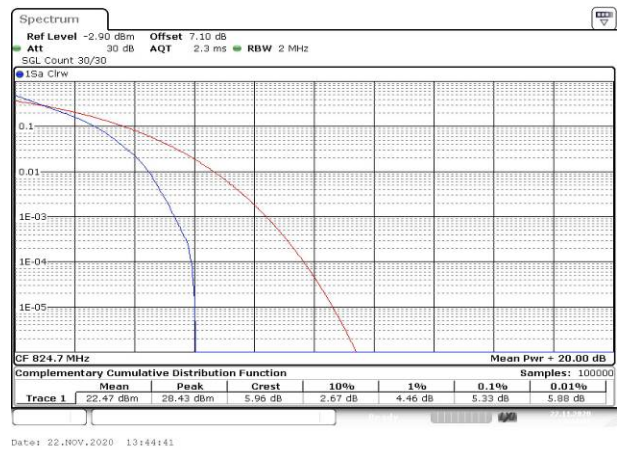


Fig.4

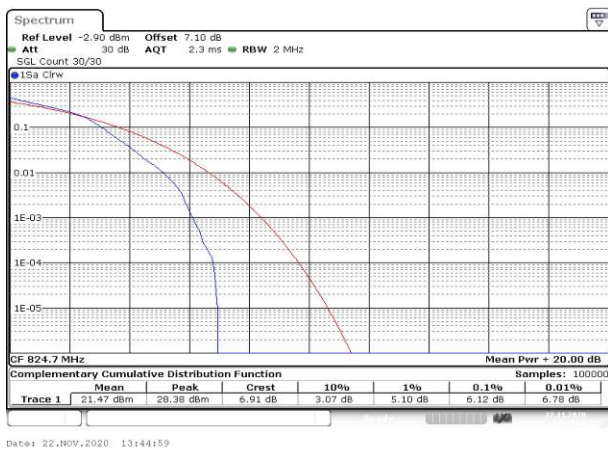


Fig.5

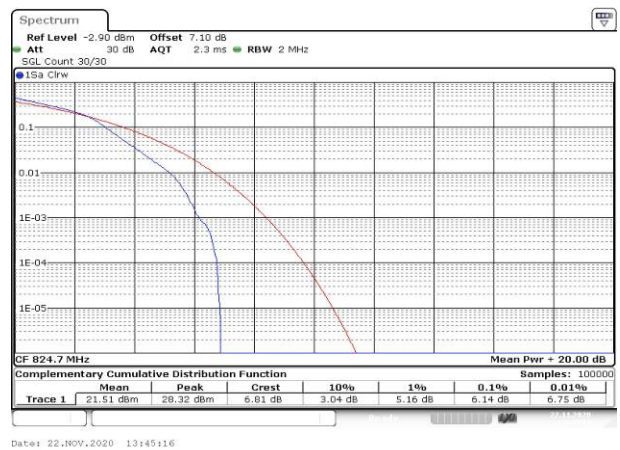


Fig.6

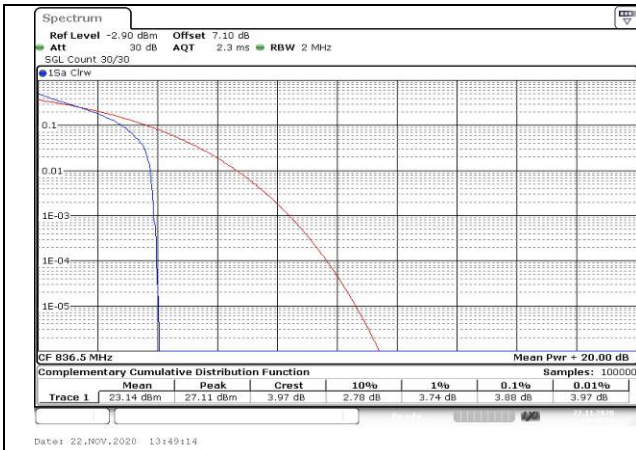


Fig.7



Fig.8

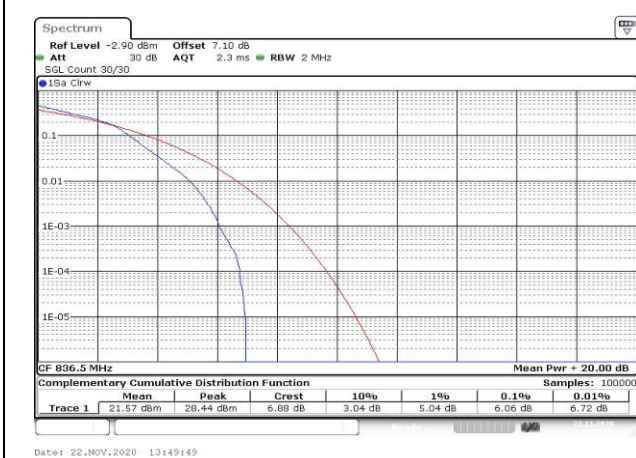


Fig.9

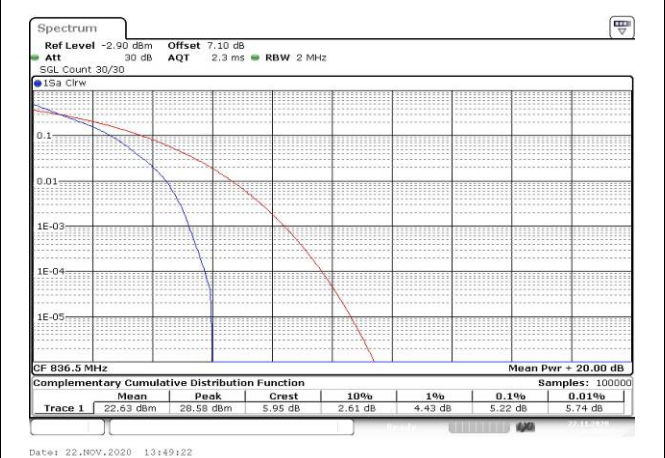


Fig.10

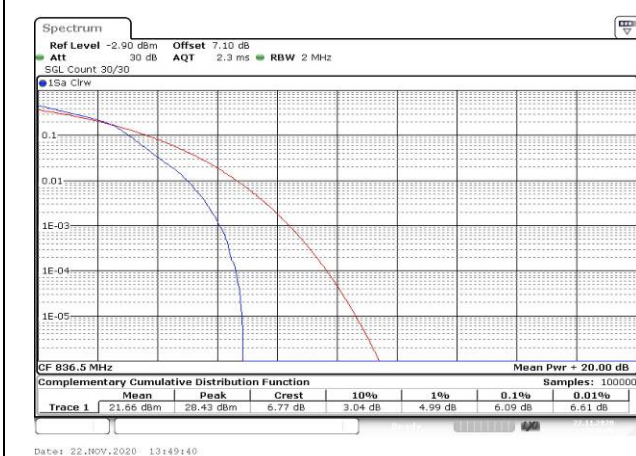


Fig.11

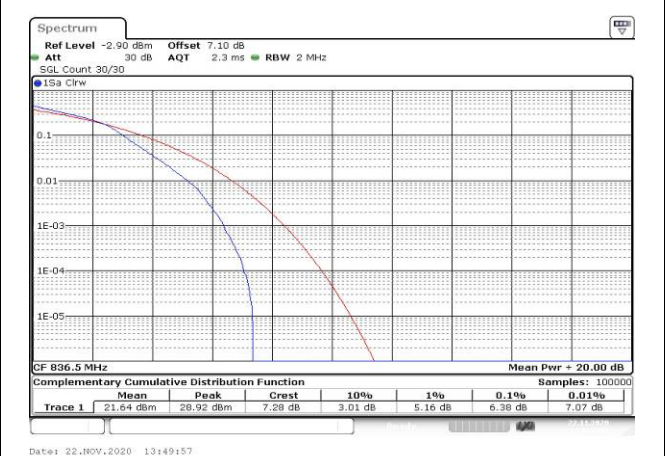


Fig.12

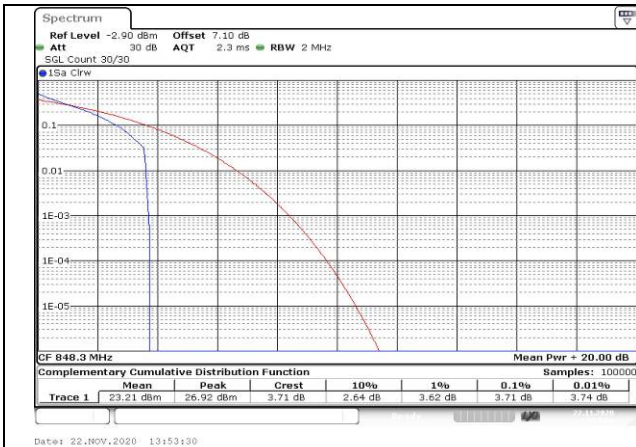


Fig.13

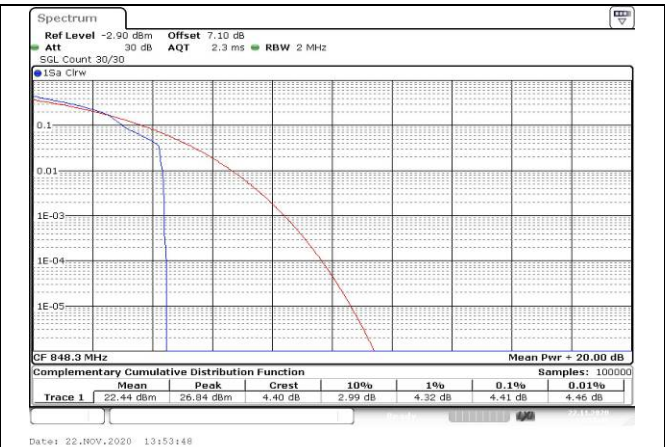


Fig.14

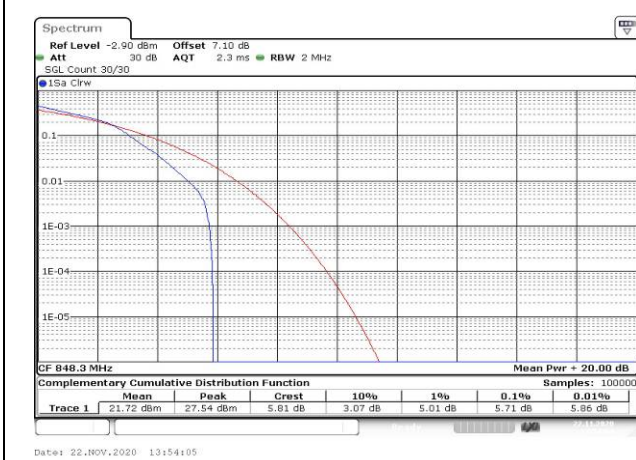


Fig.15

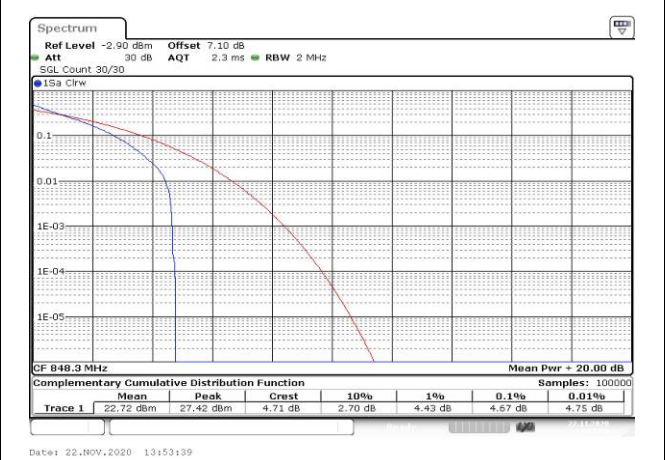


Fig.16

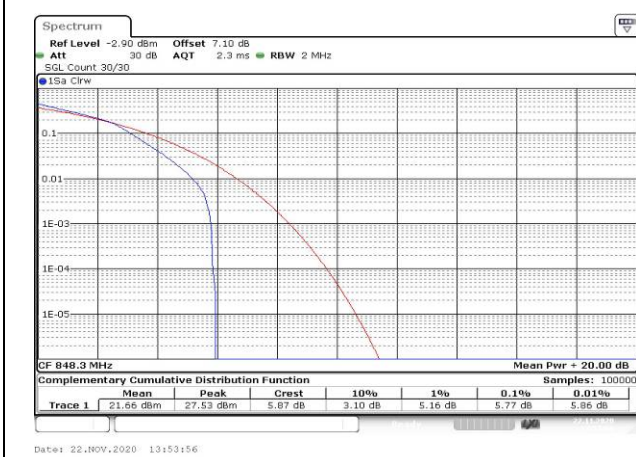


Fig.17

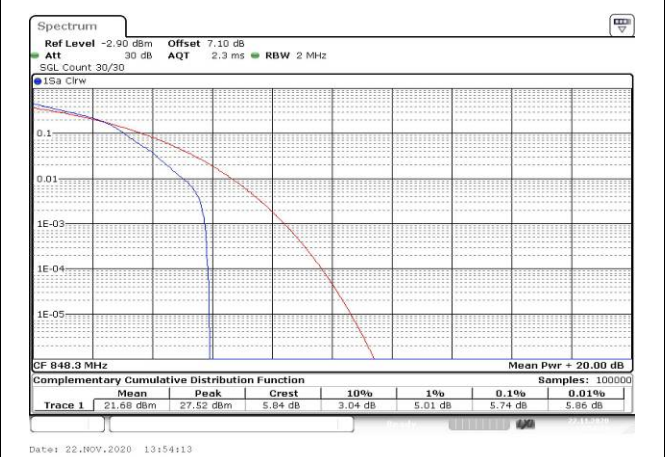


Fig.18

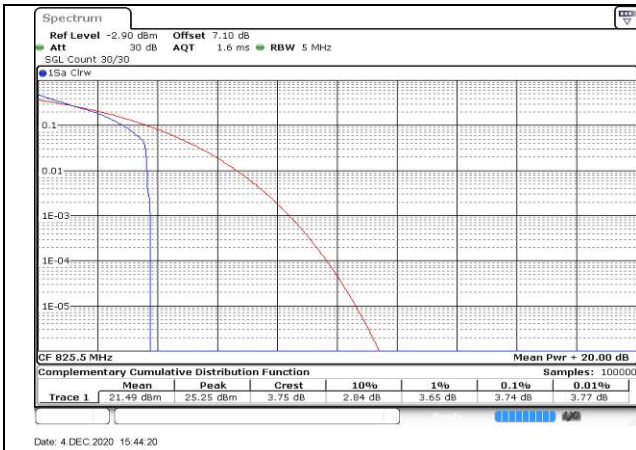


Fig.19

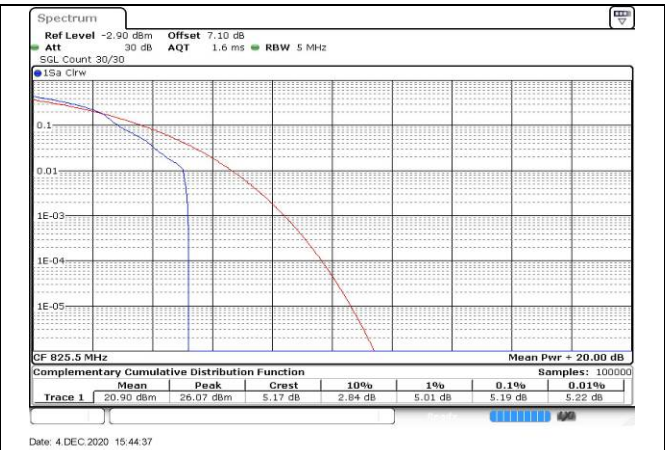


Fig.20

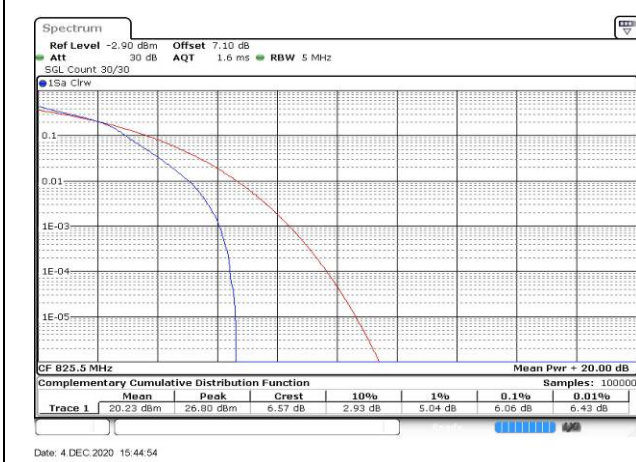


Fig.21

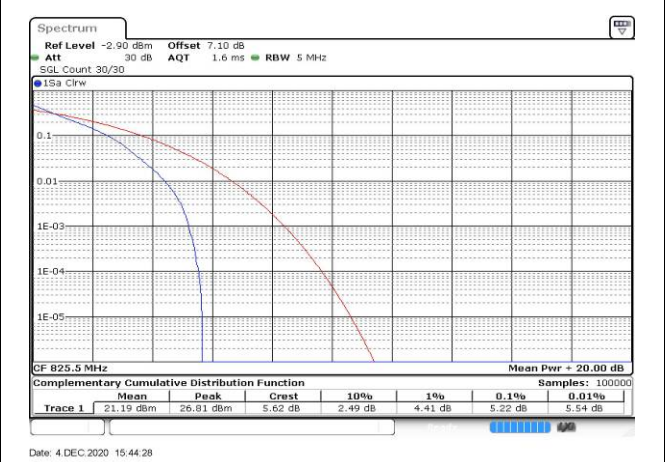


Fig.22

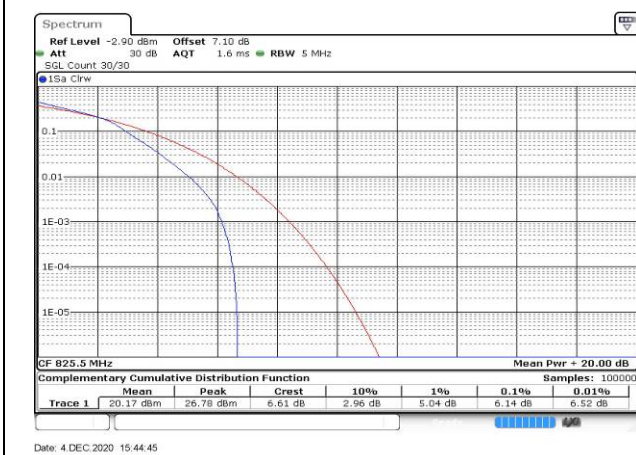


Fig.23

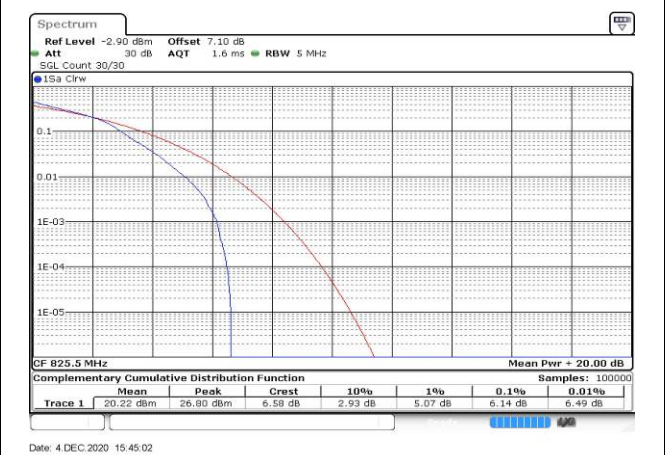


Fig.24



Fig.25

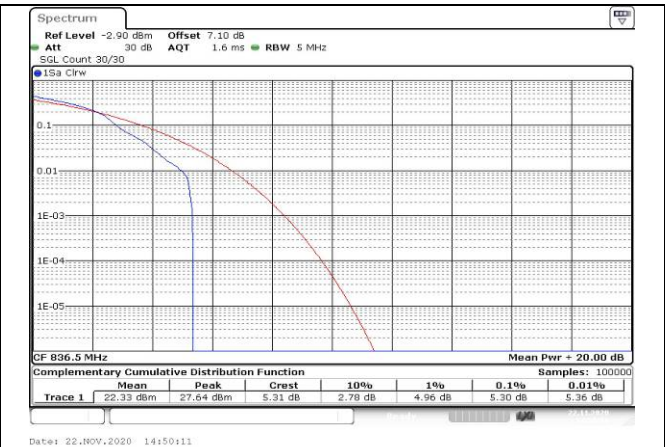


Fig.26

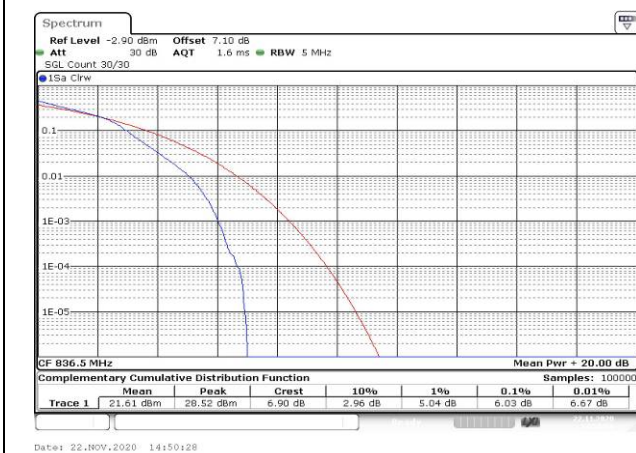


Fig.27

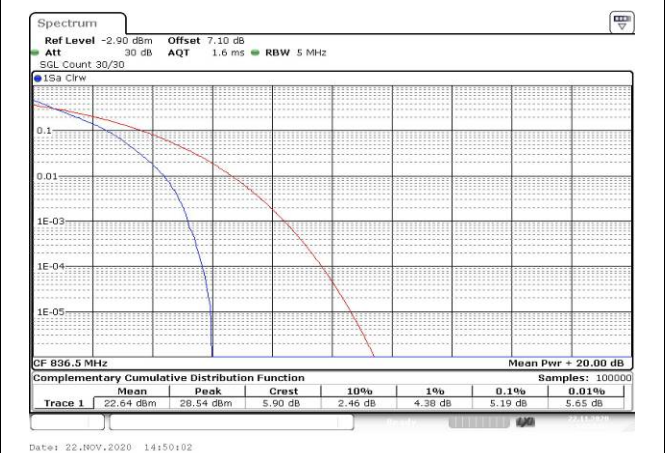


Fig.28

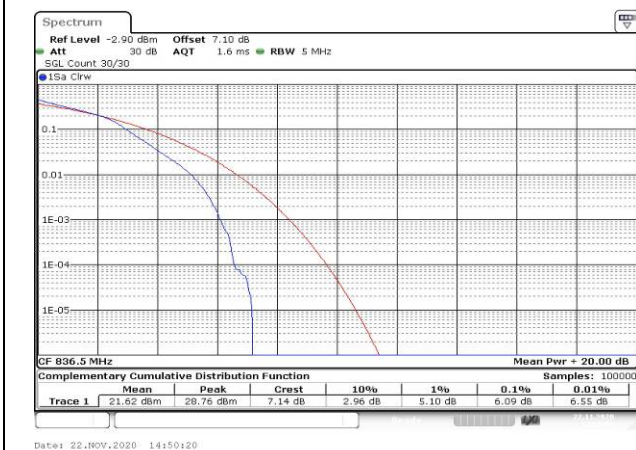


Fig.29

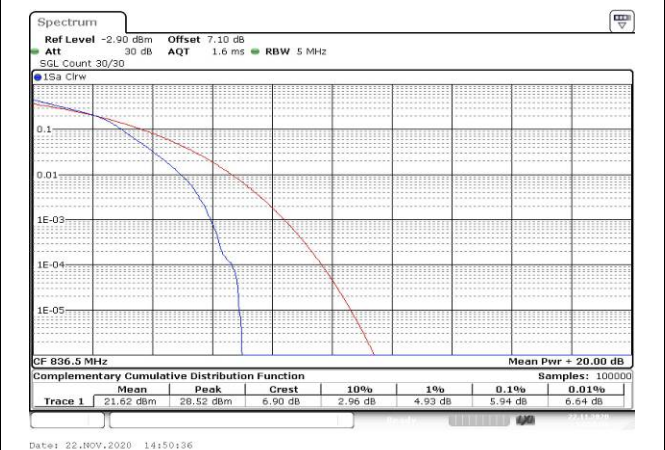


Fig.30