

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	23.71	
				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	

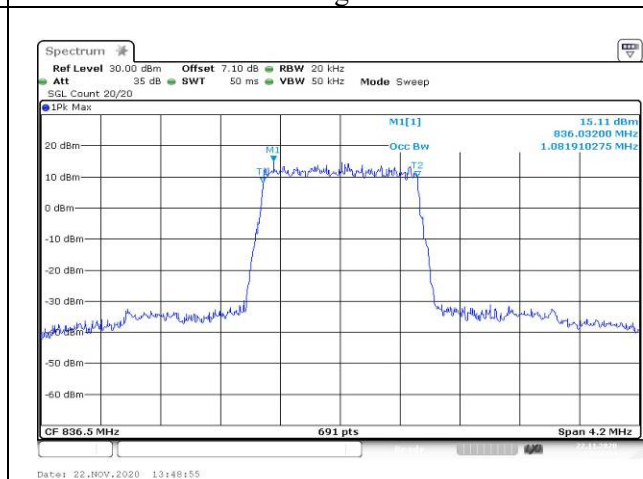
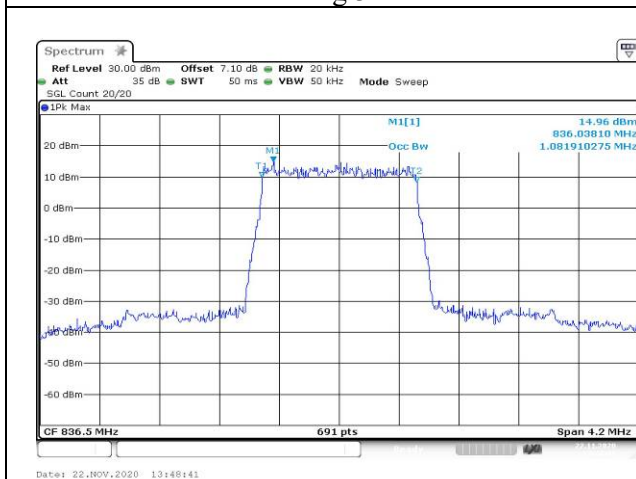
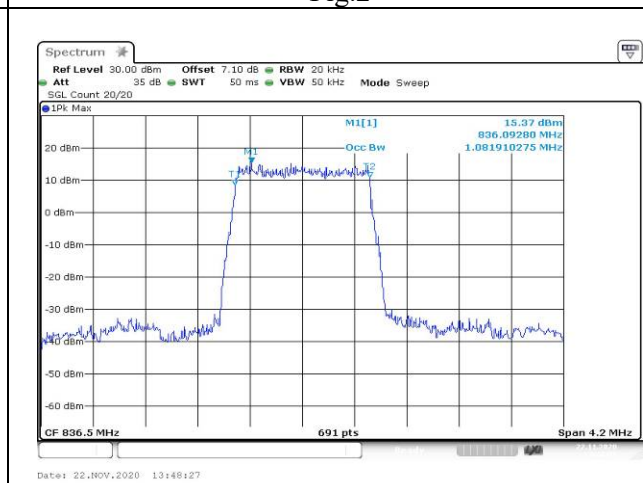
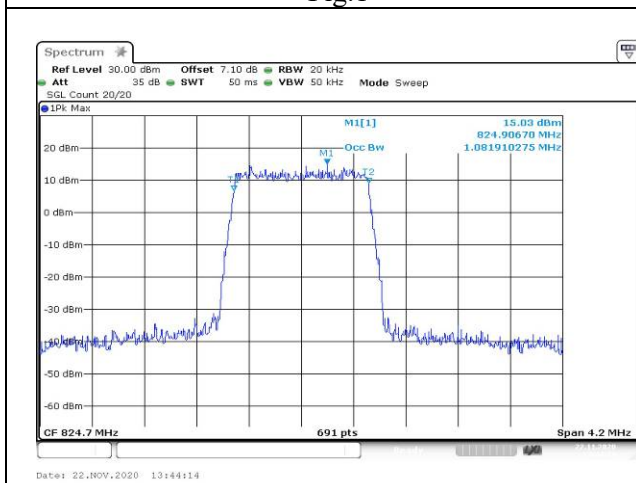
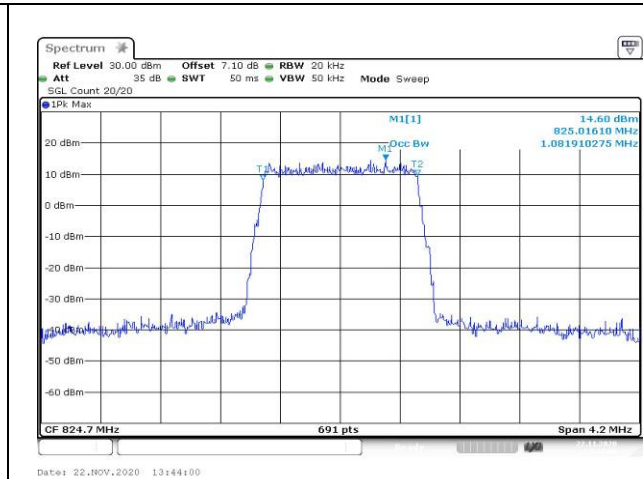
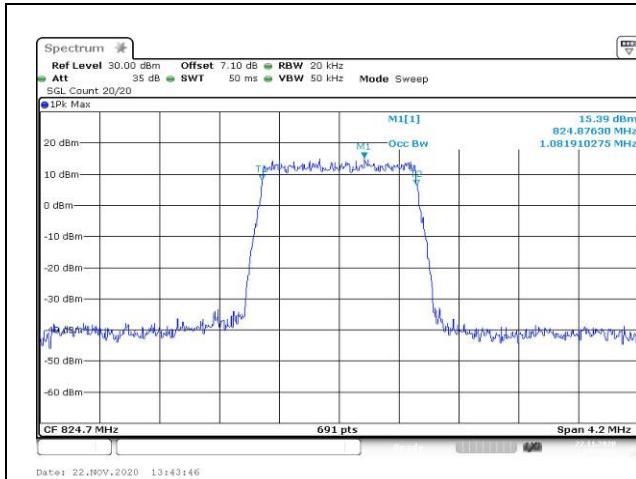
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	21.37
				1	12	21.39
				1	24	21.46
				12	0	21.42
				12	7	21.35
				12	13	21.45
	25	0		21.44		
	836.5	20525		1	0	21.41
				1	12	21.36
				1	24	21.43
				12	0	21.47
				12	7	21.43
				12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



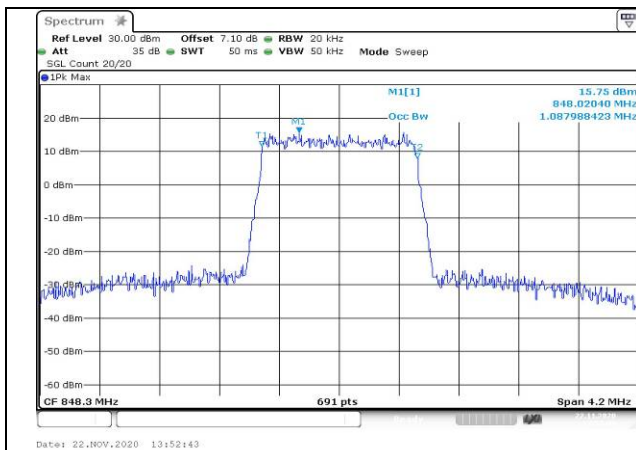


Fig.7

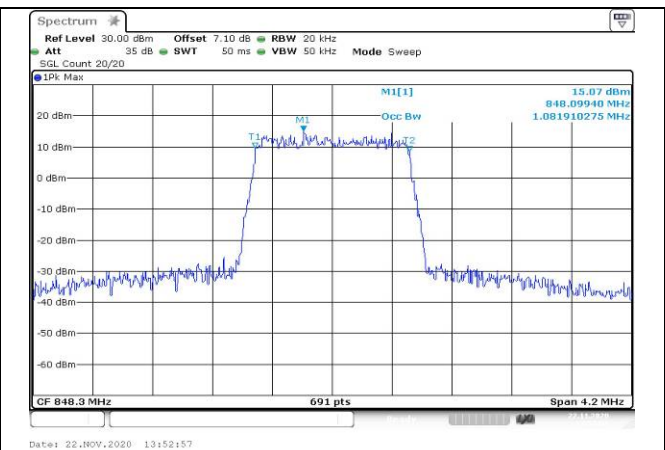


Fig.8

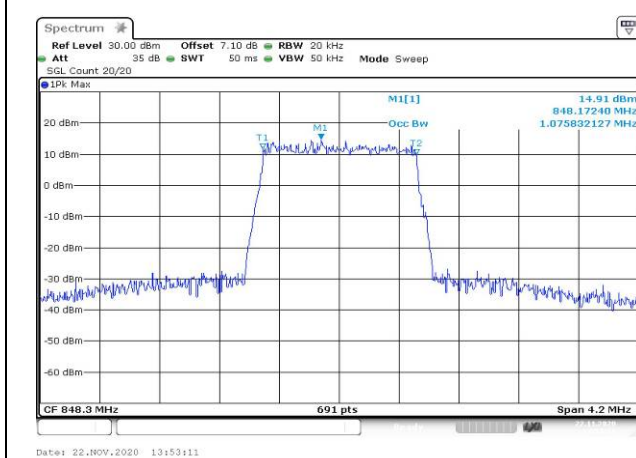


Fig.9

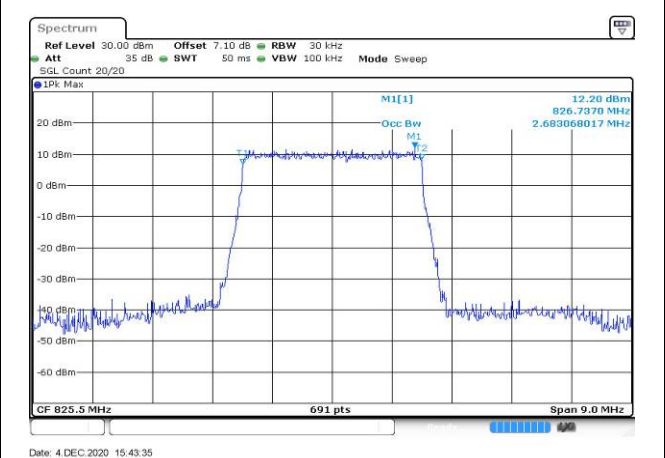


Fig.10

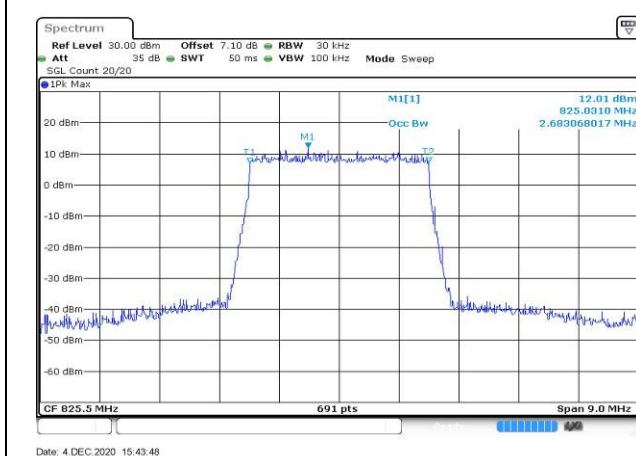


Fig.11

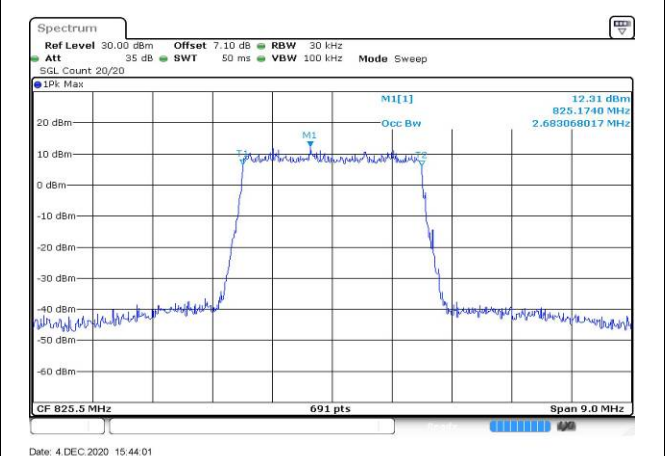
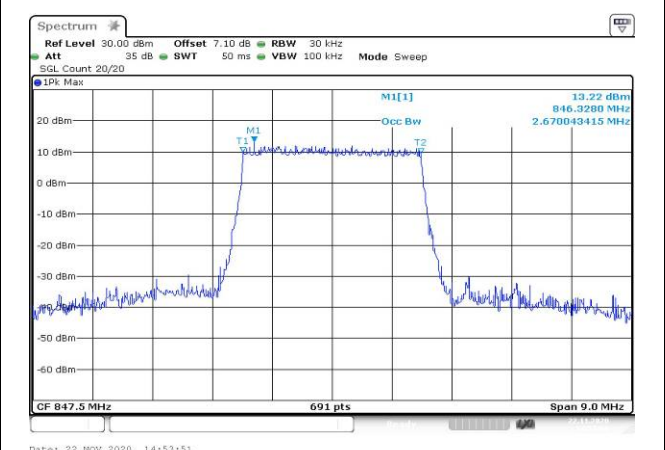
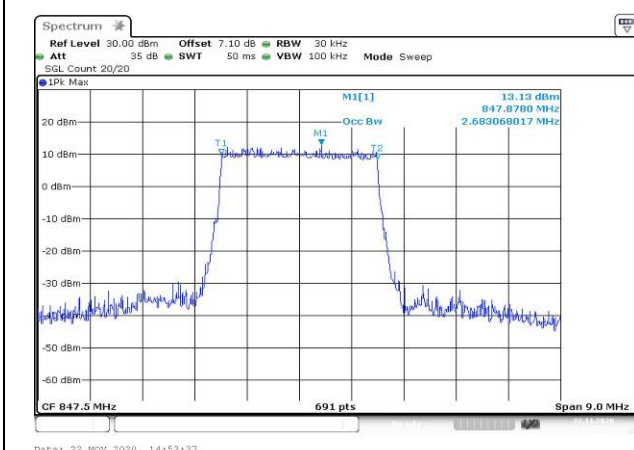
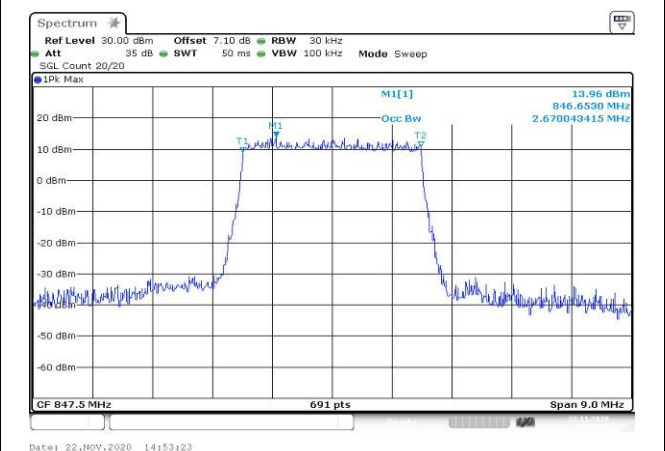
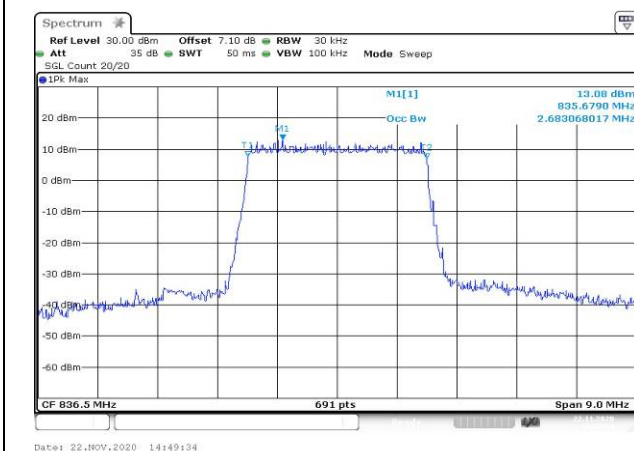
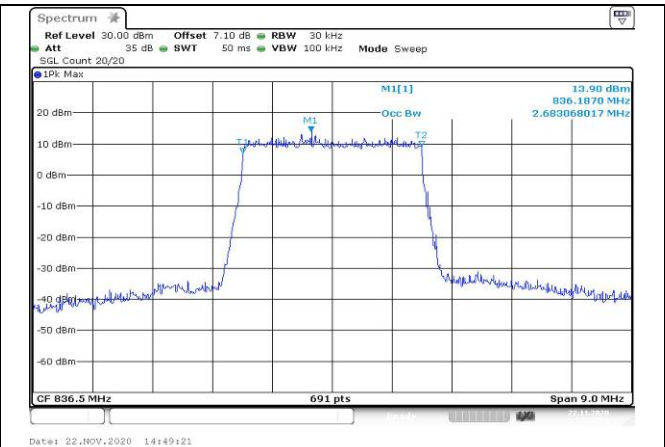
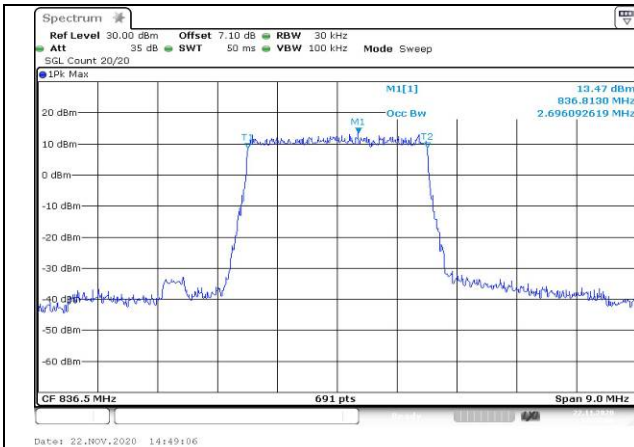


Fig.12



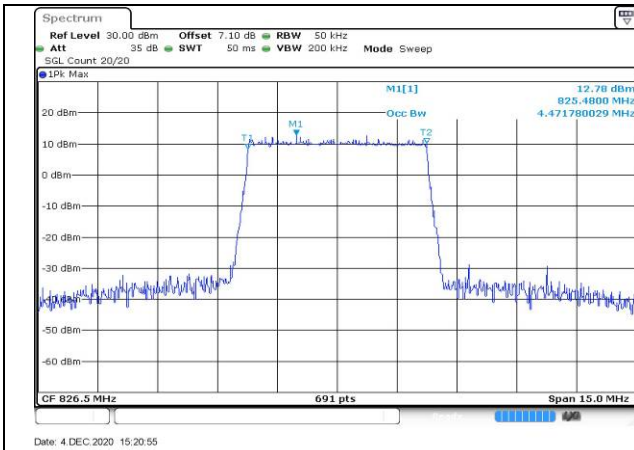


Fig.19

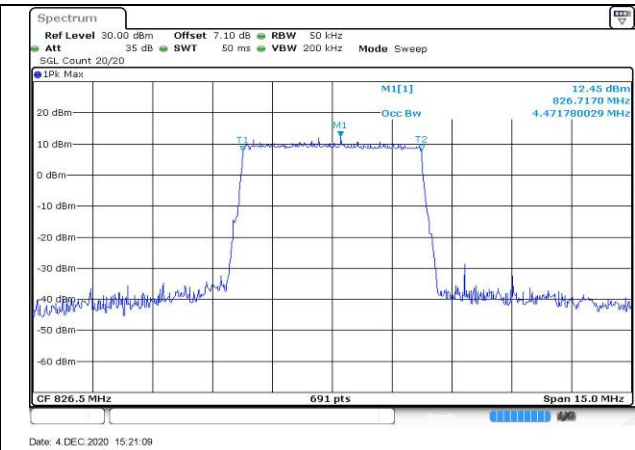


Fig.20

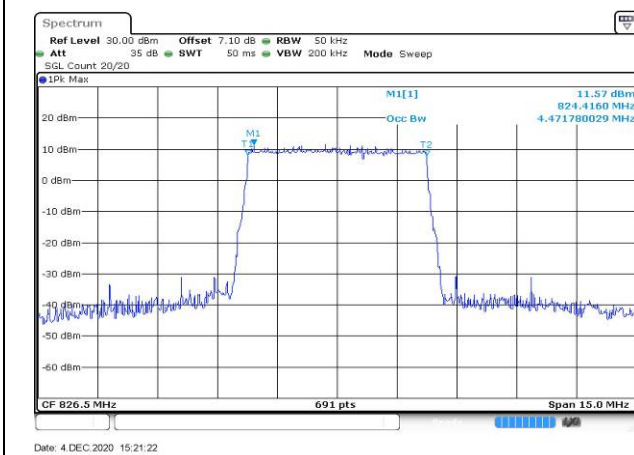


Fig.21

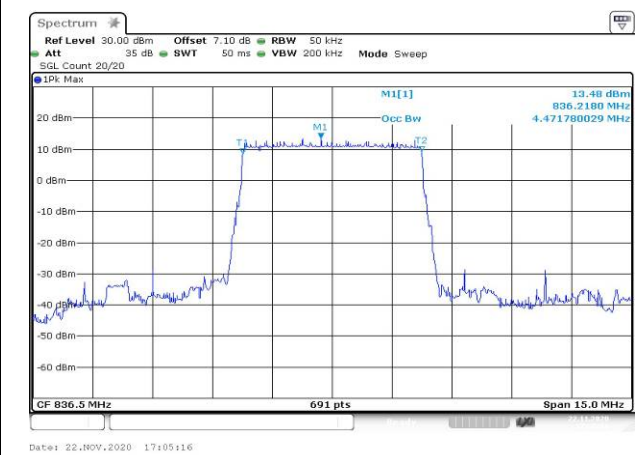


Fig.22

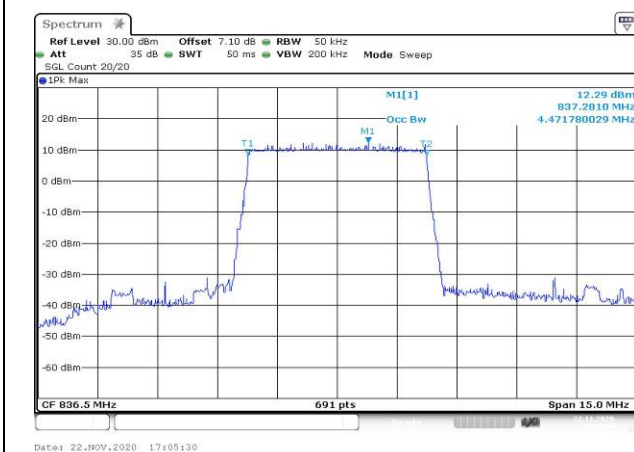


Fig.23

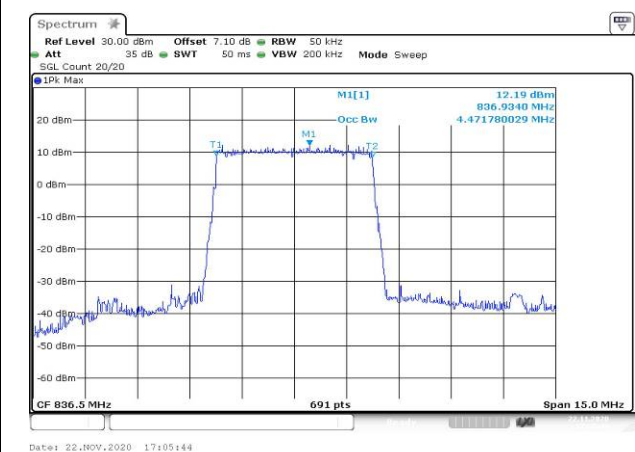
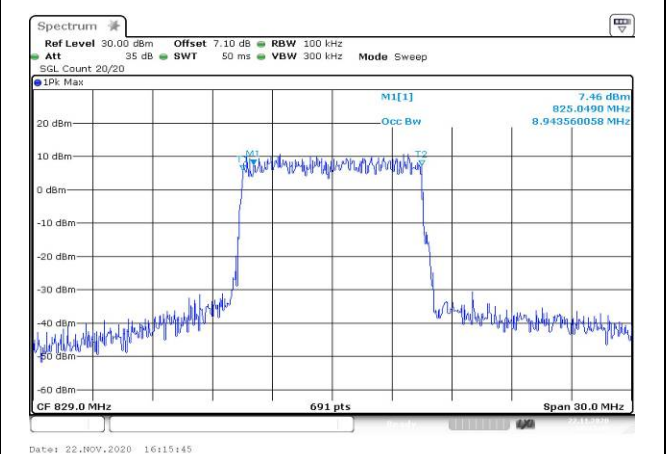
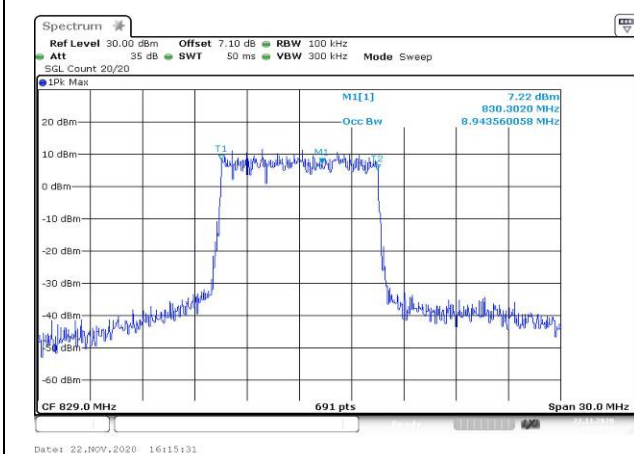
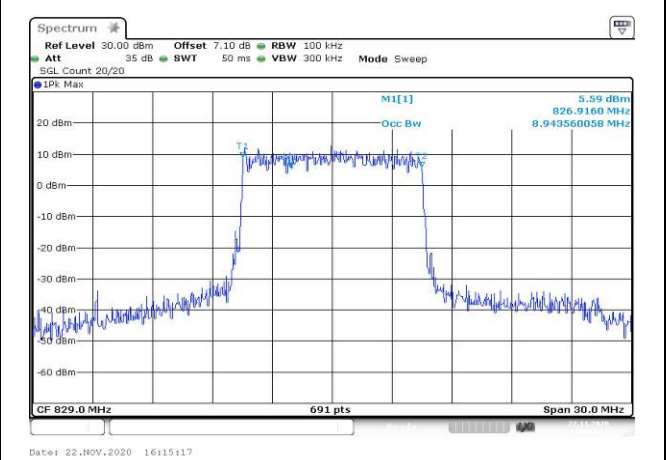
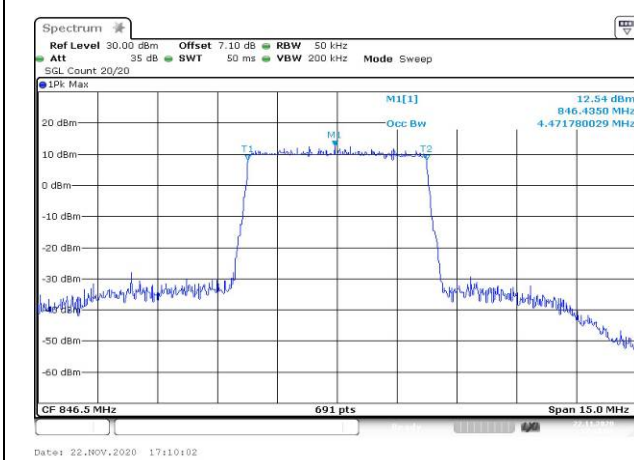
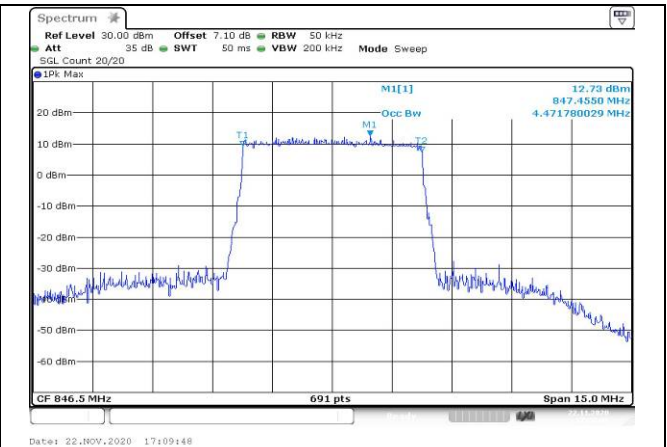
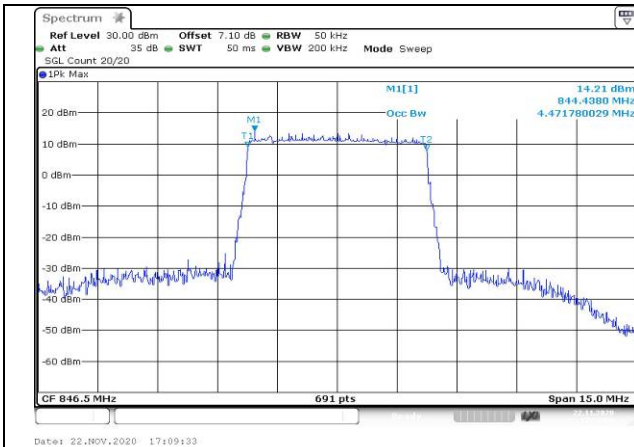


Fig.24



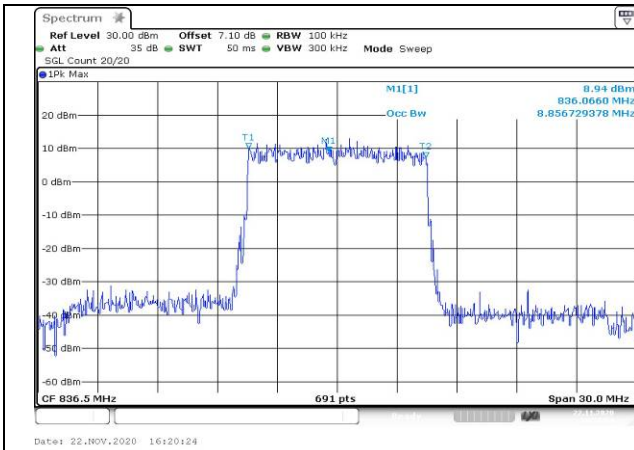


Fig.31

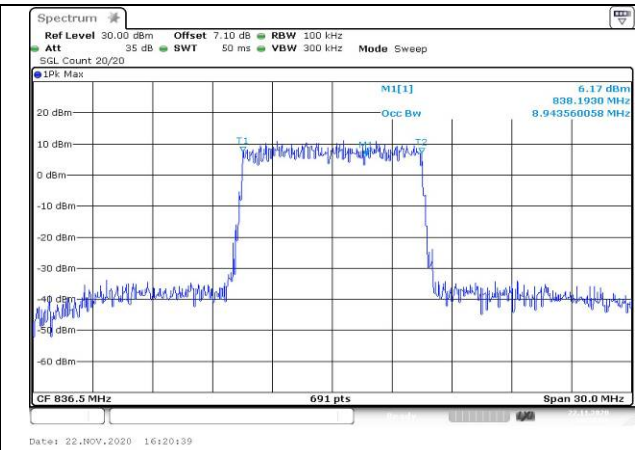


Fig.32

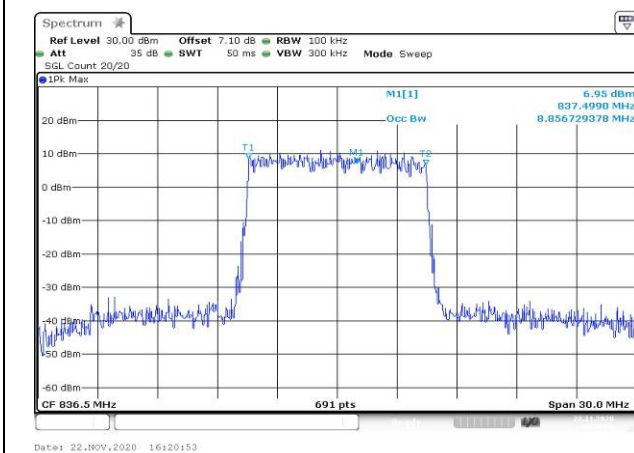


Fig.33

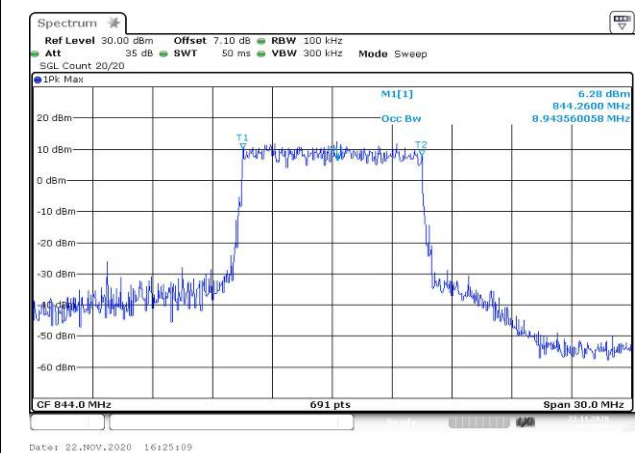


Fig.34

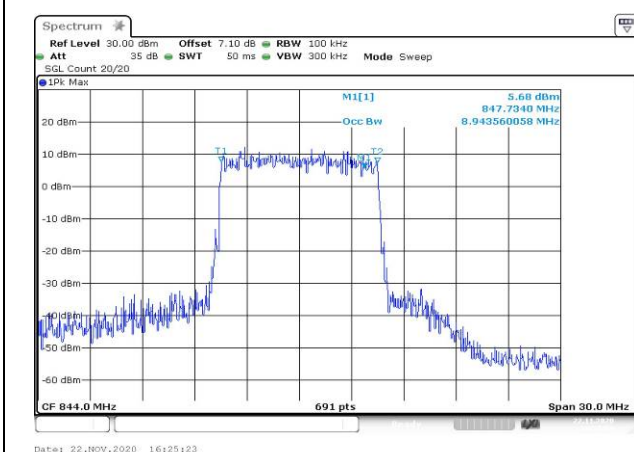


Fig.35

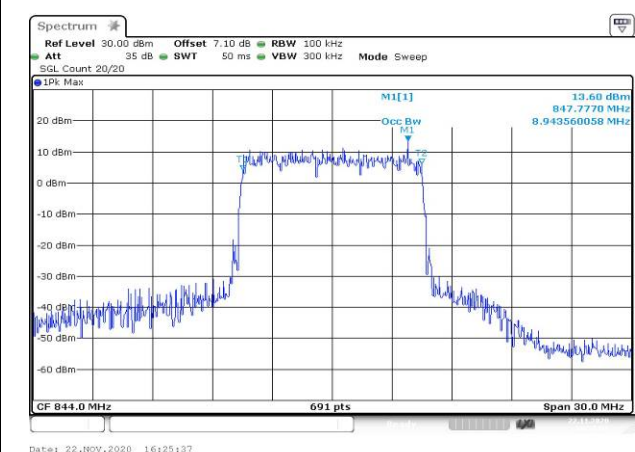


Fig.36

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

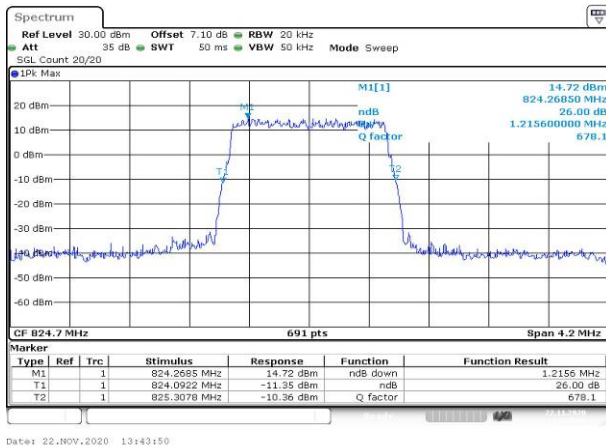


Fig.1

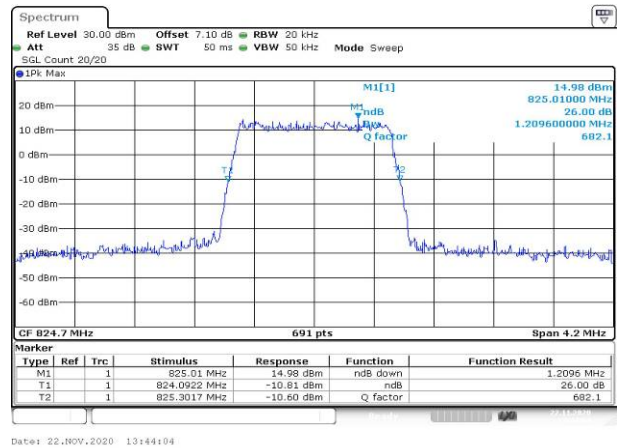


Fig.2

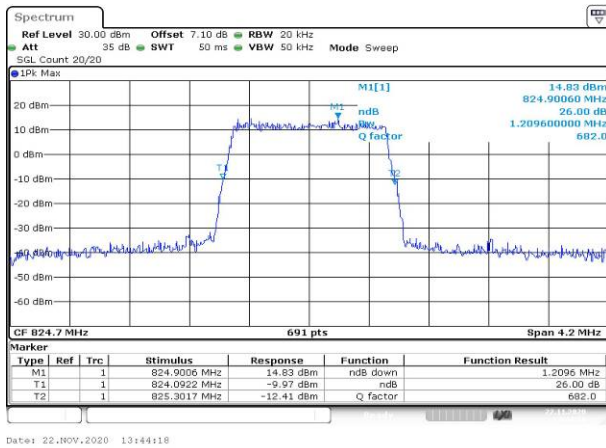


Fig.3

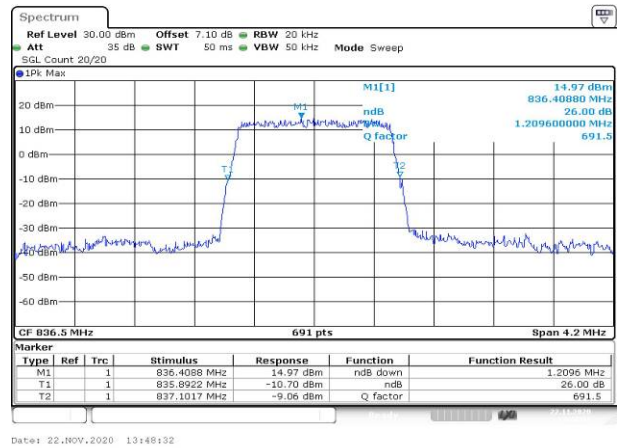


Fig.4

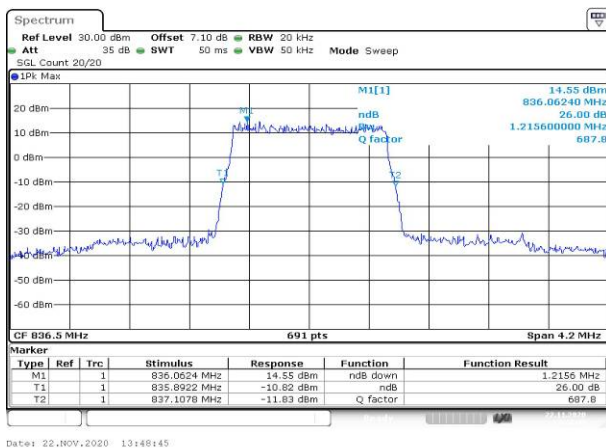


Fig.5

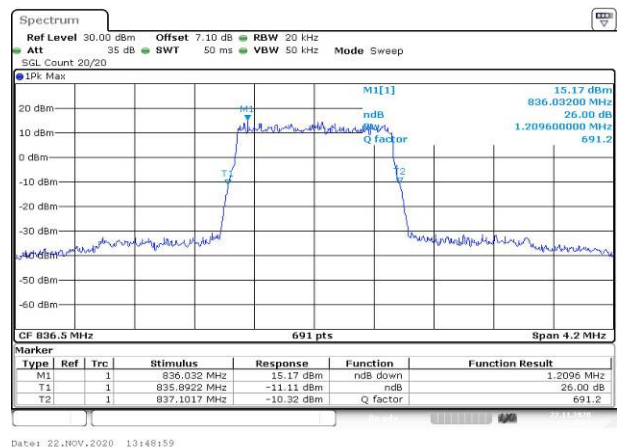


Fig.6

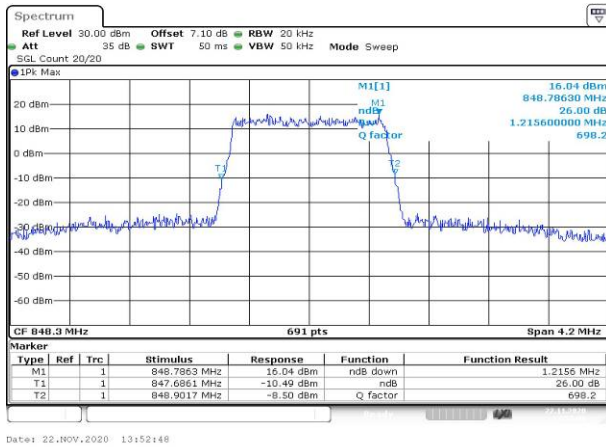


Fig.7

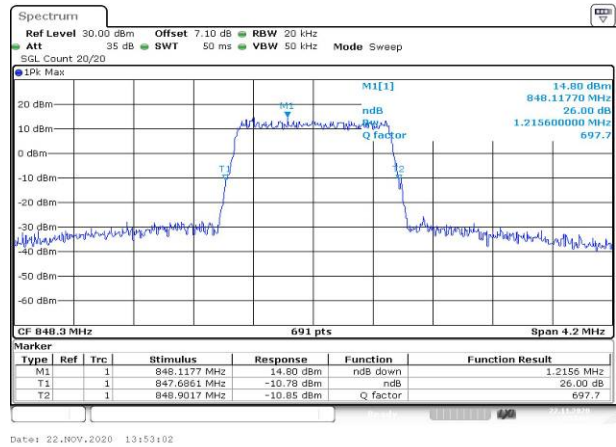


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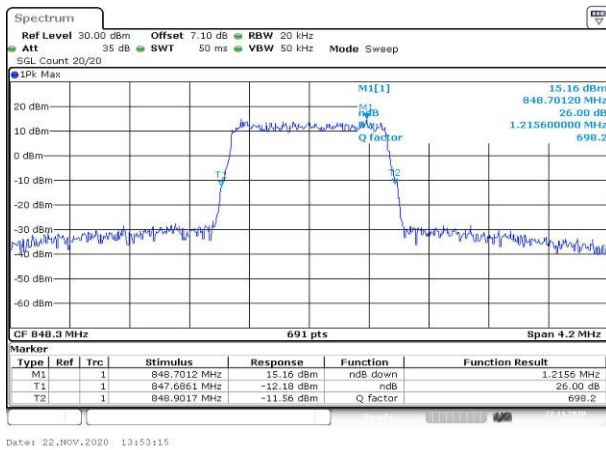


Fig.9

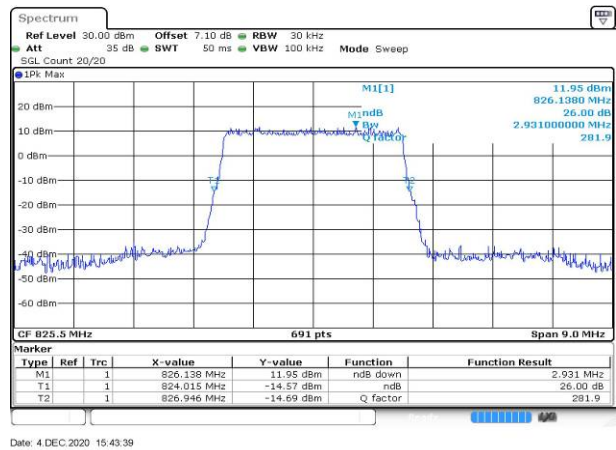


Fig.10

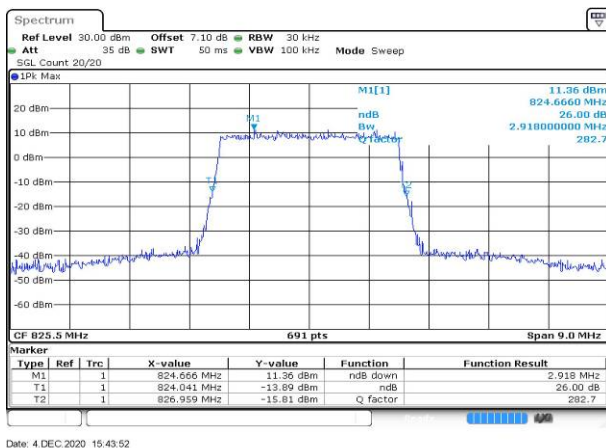


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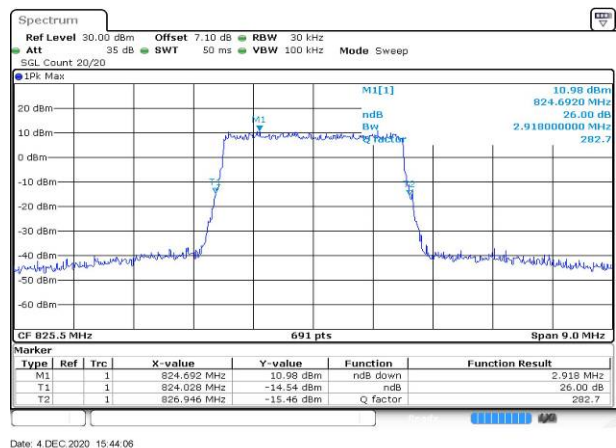


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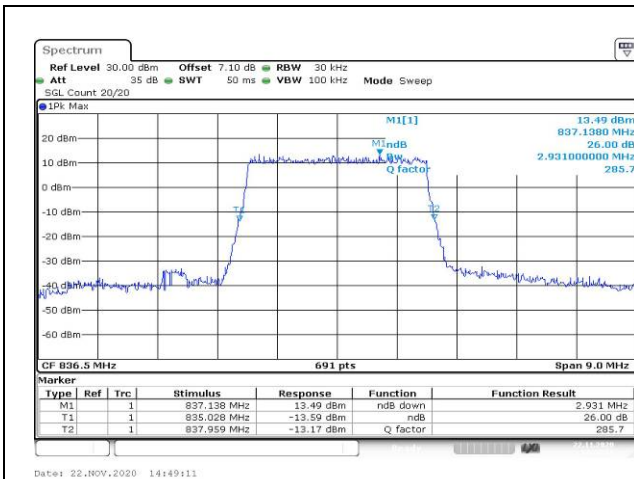


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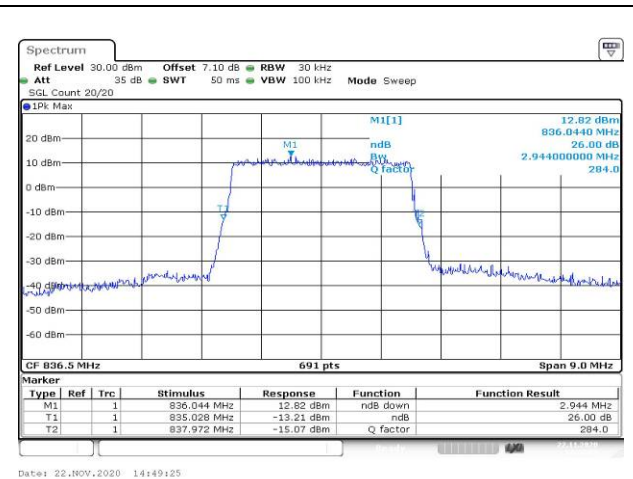


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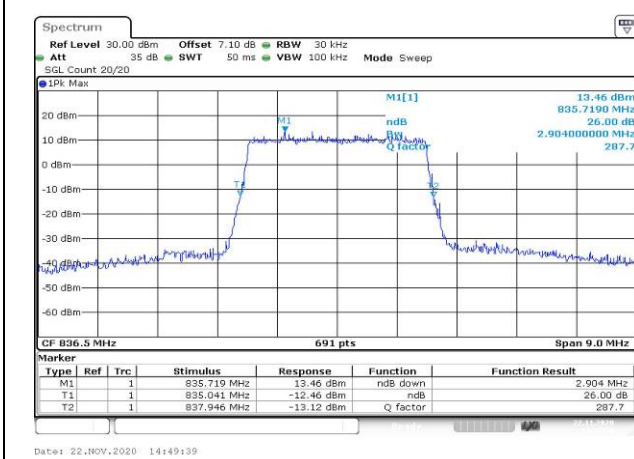


Fig.15

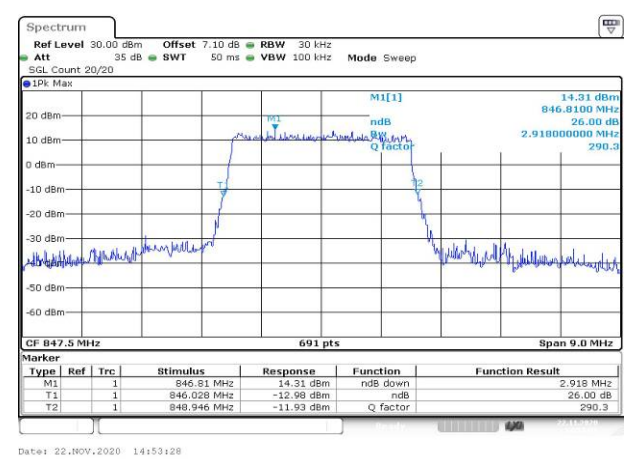


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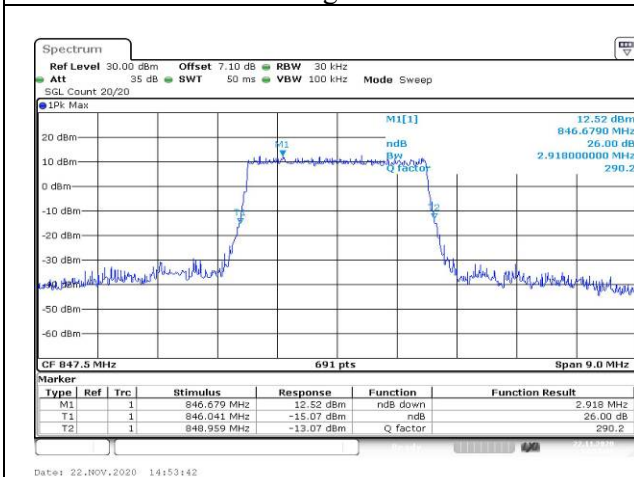


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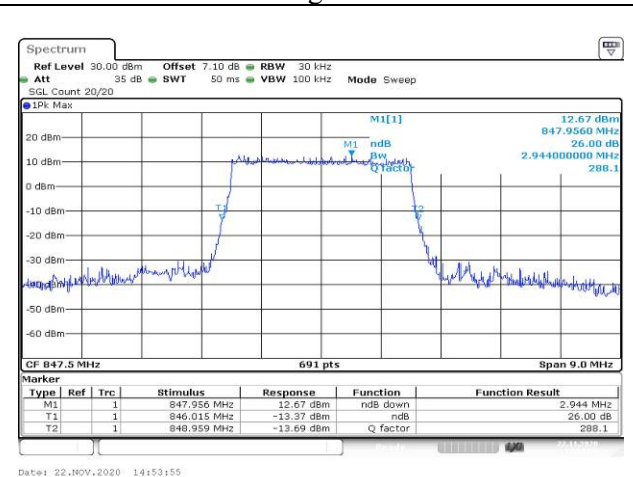


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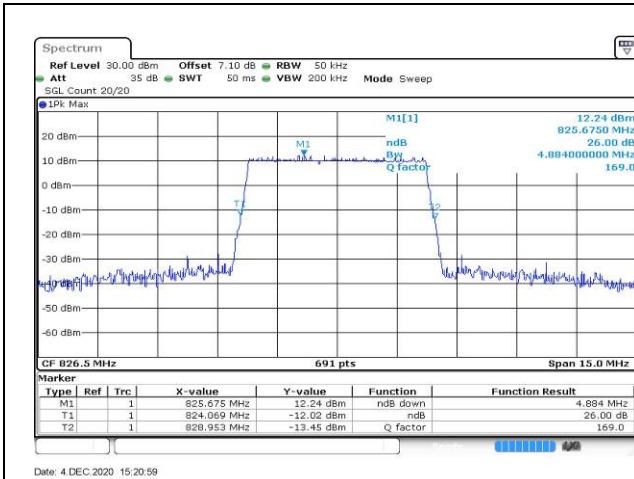


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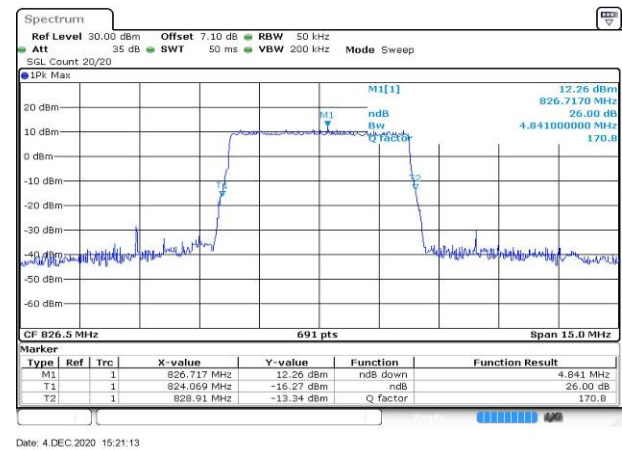


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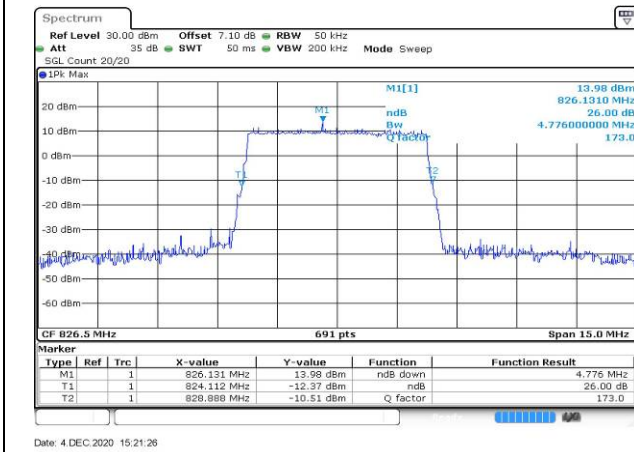


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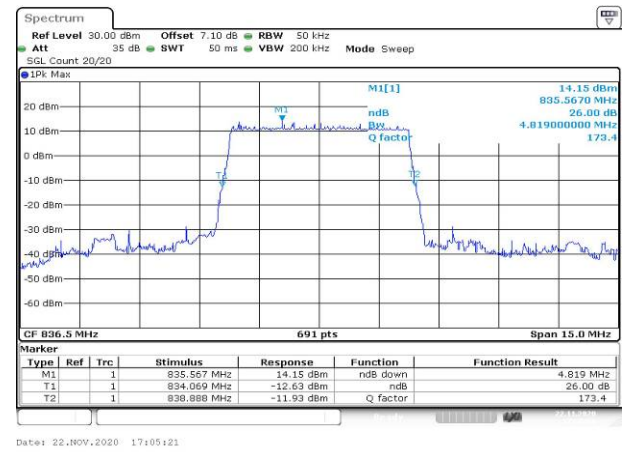


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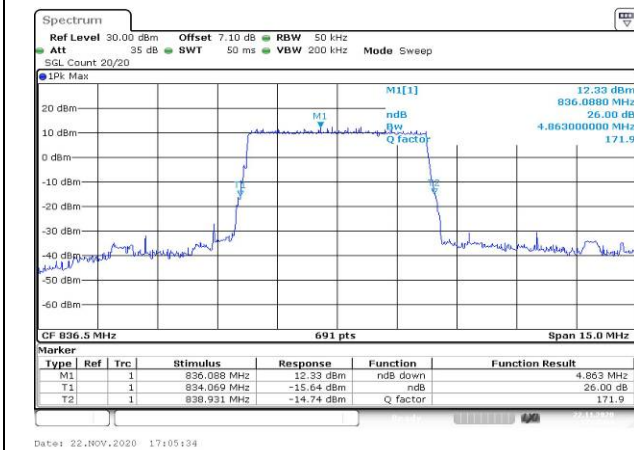


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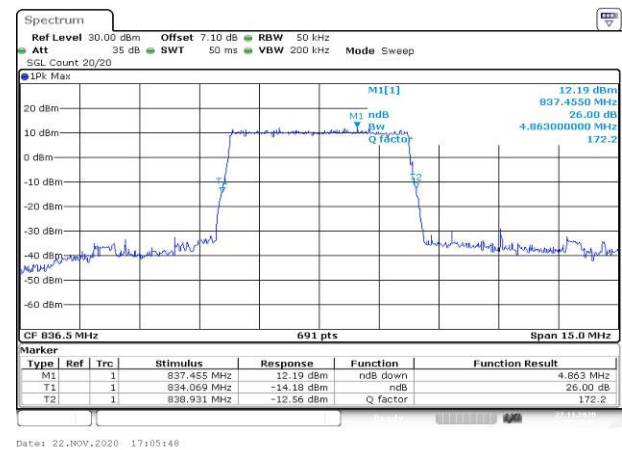


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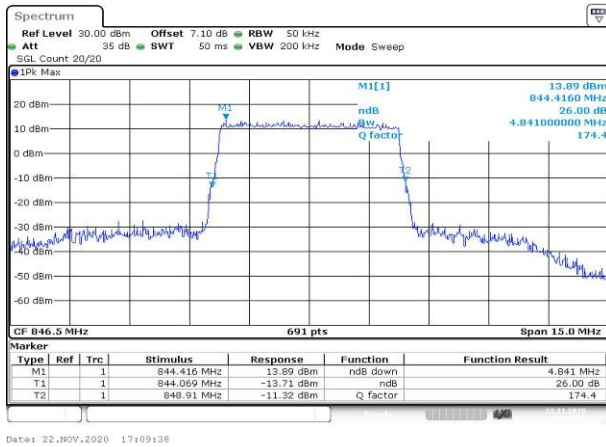


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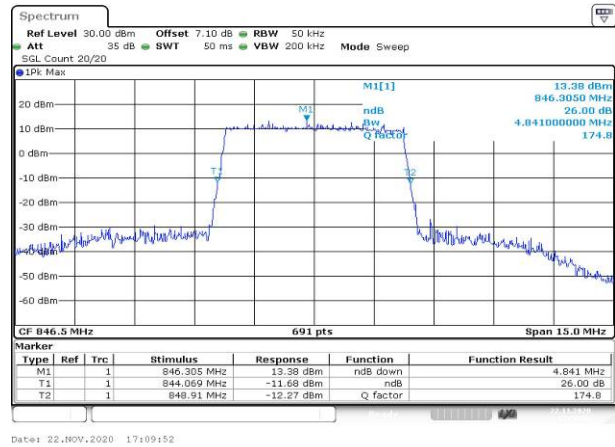


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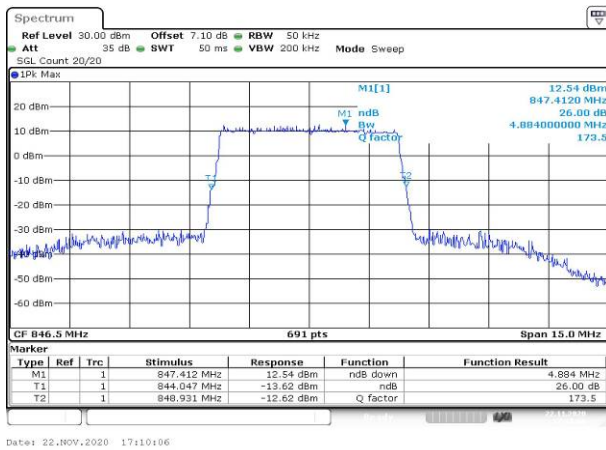


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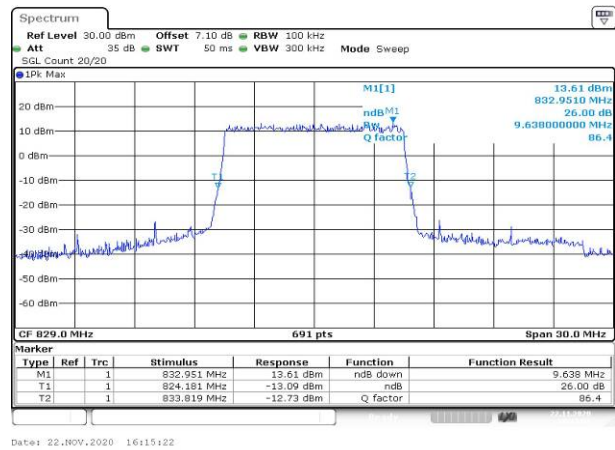


Fig.28

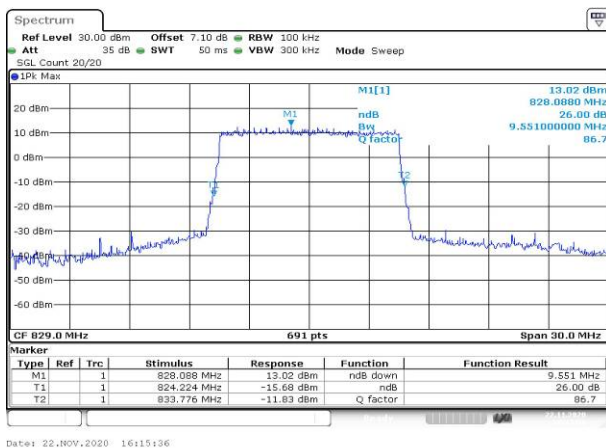


Fig.29

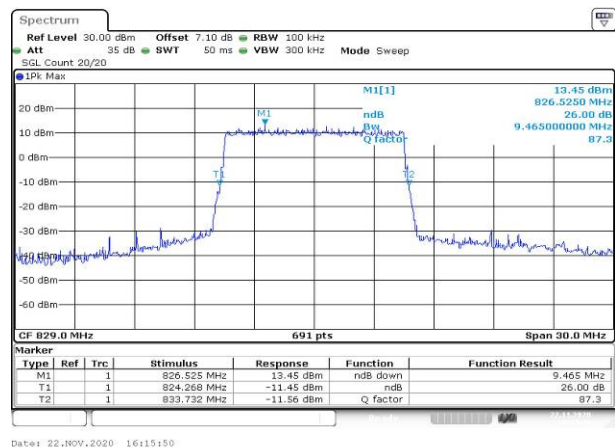


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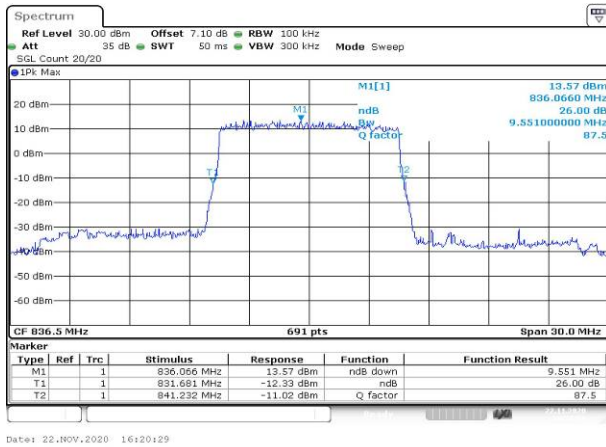


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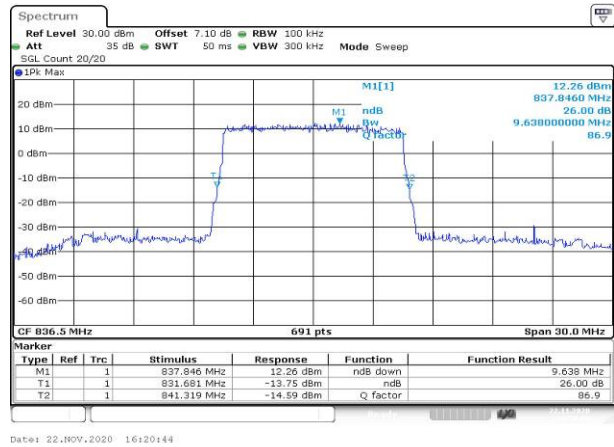


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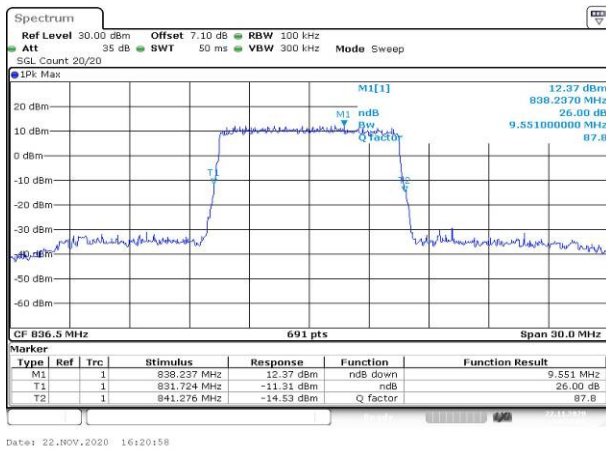


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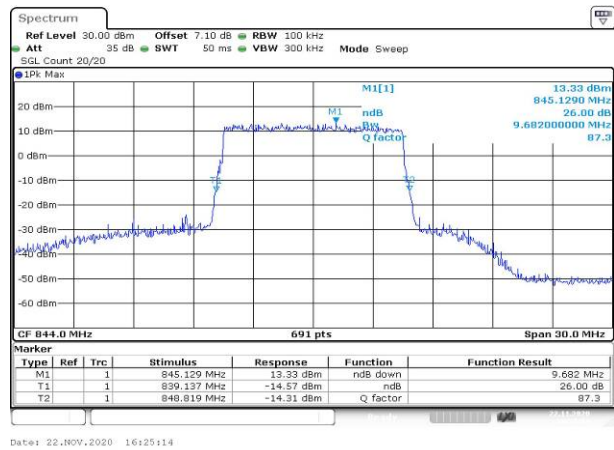


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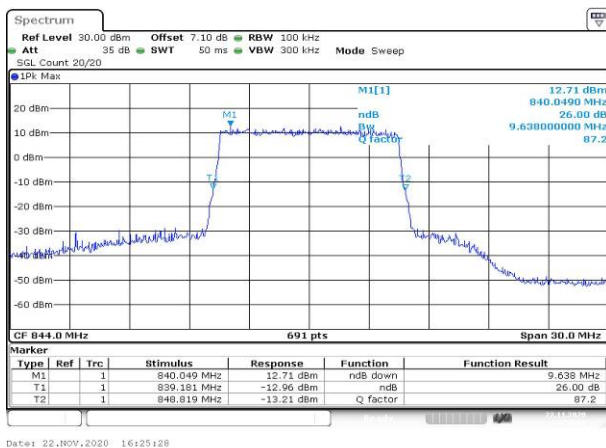


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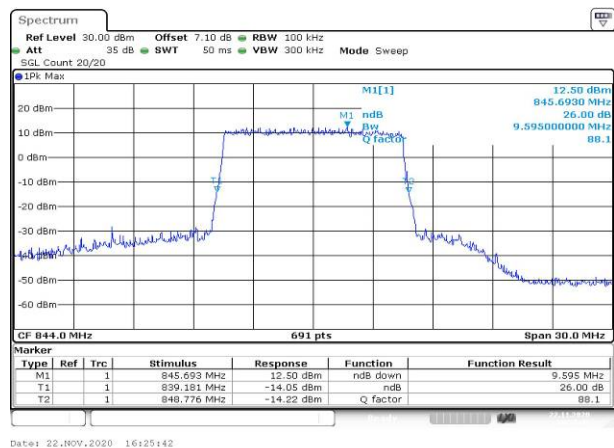


Fig.36

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

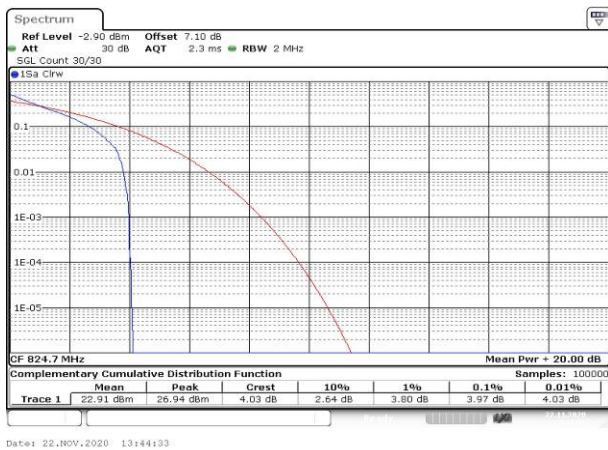


Fig.1

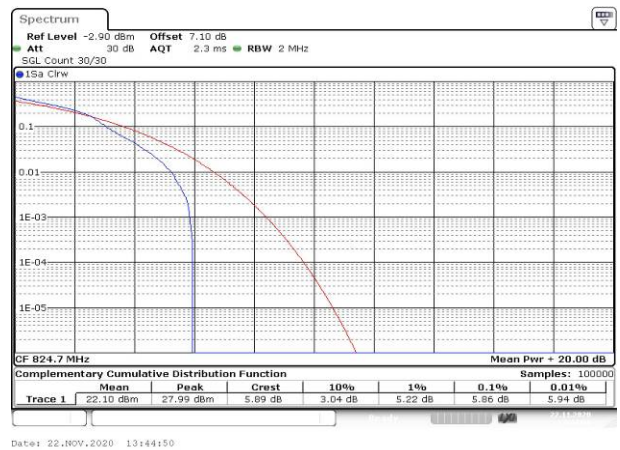


Fig.2

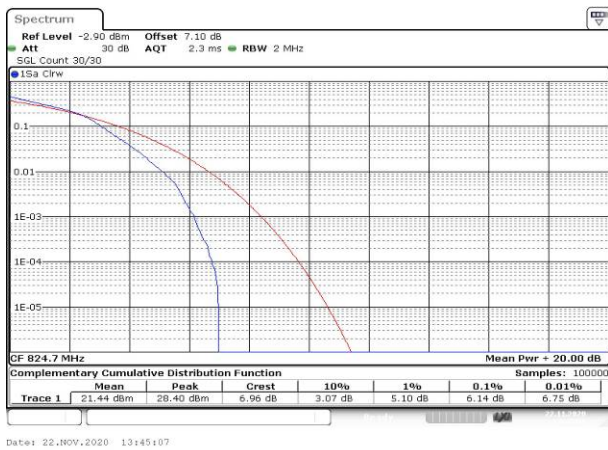


Fig.3

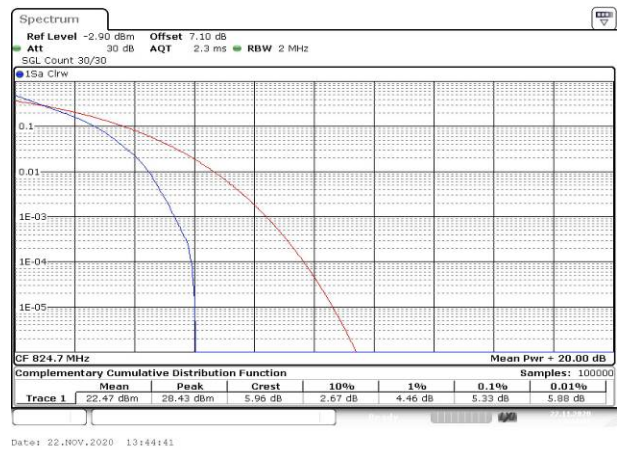


Fig.4

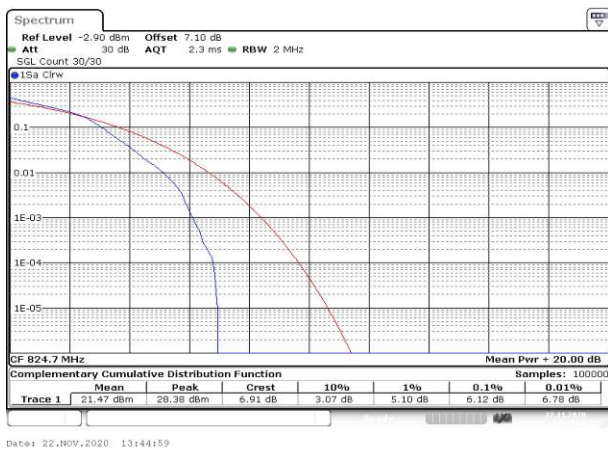


Fig.5

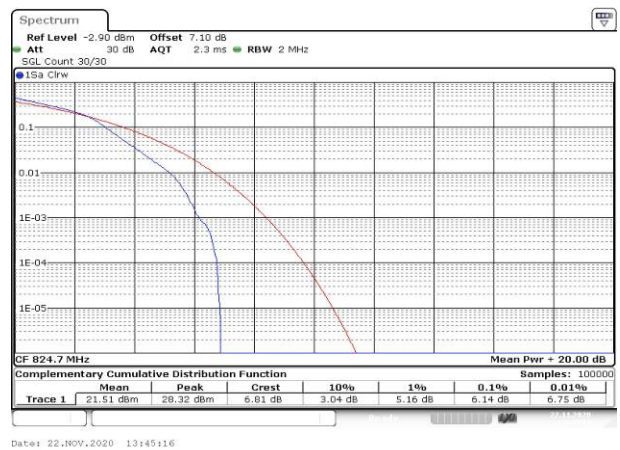


Fig.6

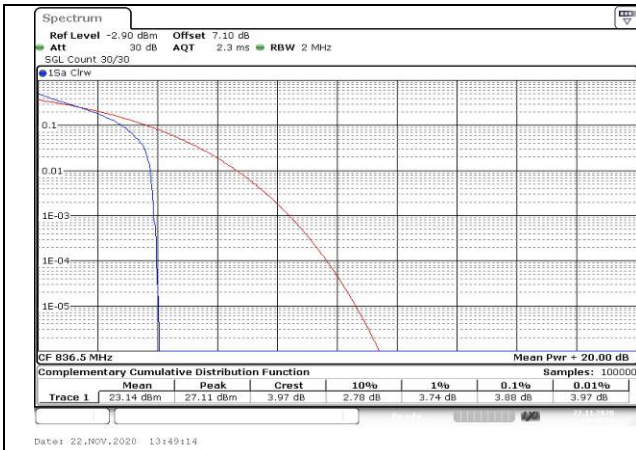


Fig.7



Fig.8

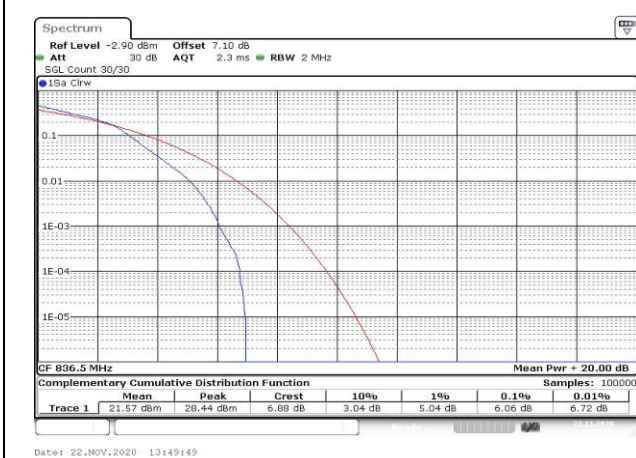


Fig.9

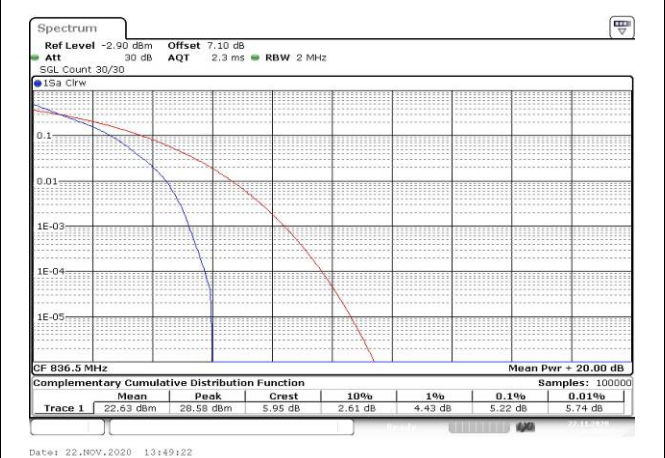


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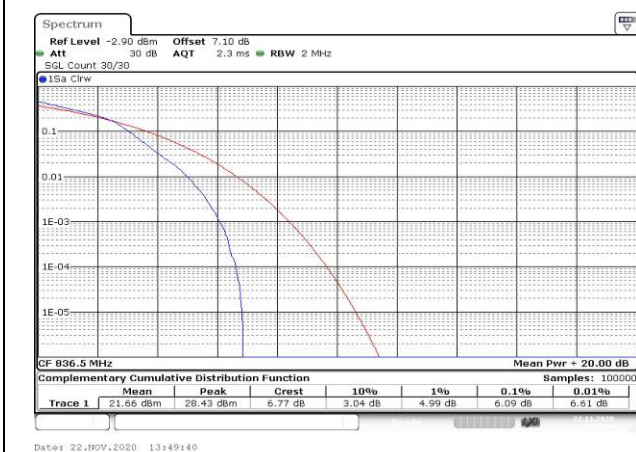


Fig.11

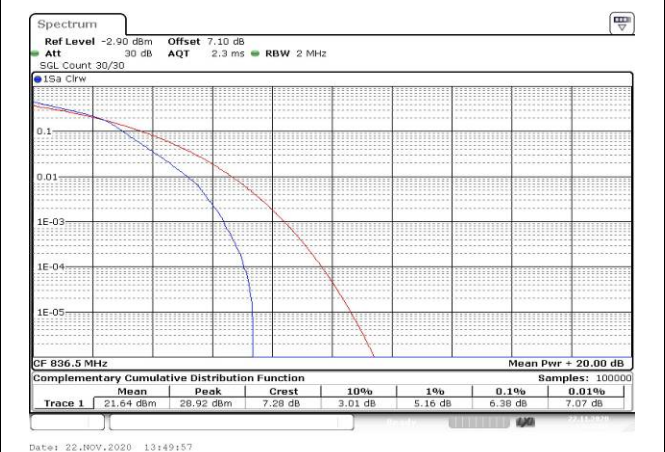


Fig.12

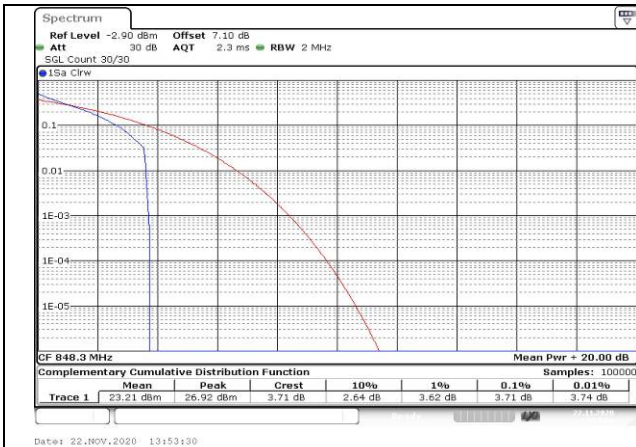


Fig.13

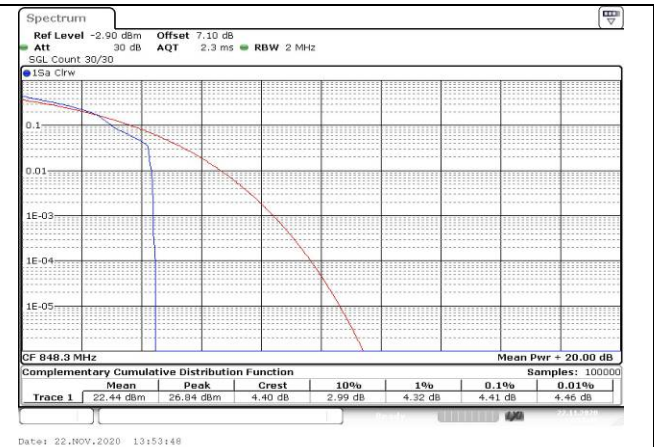


Fig.14

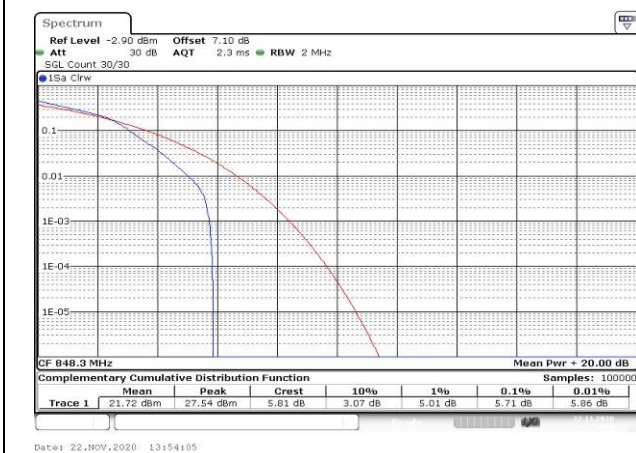


Fig.15

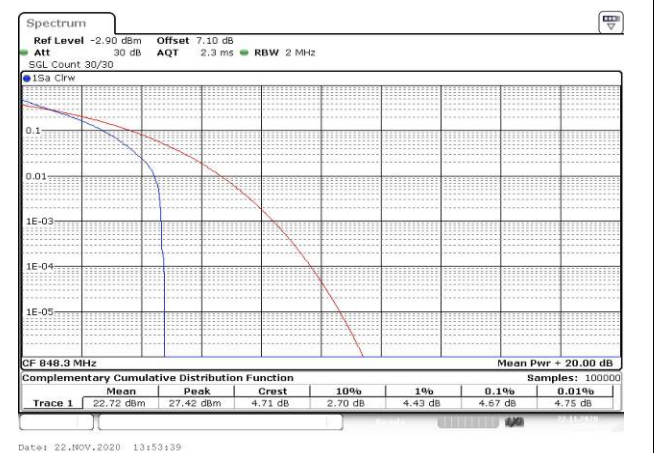


Fig.16

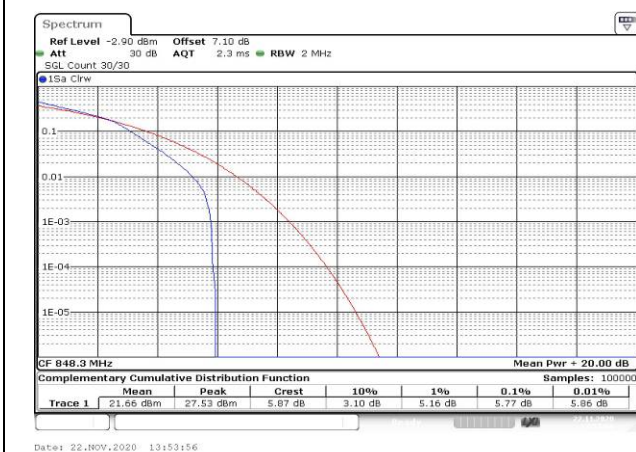


Fig.17

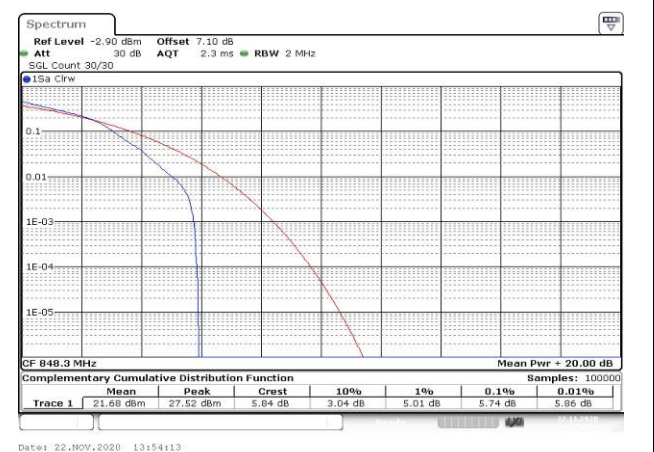


Fig.18

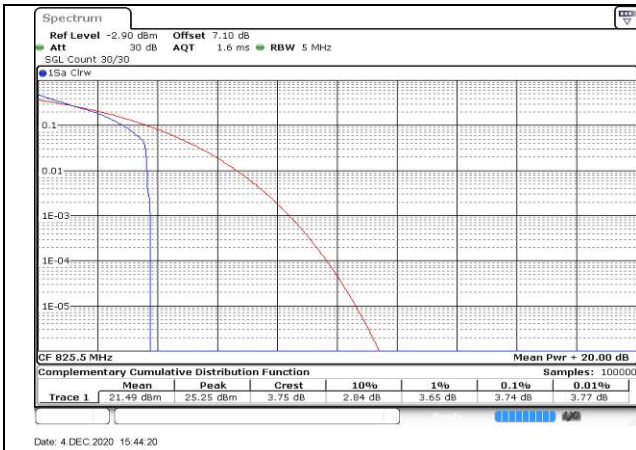


Fig.19

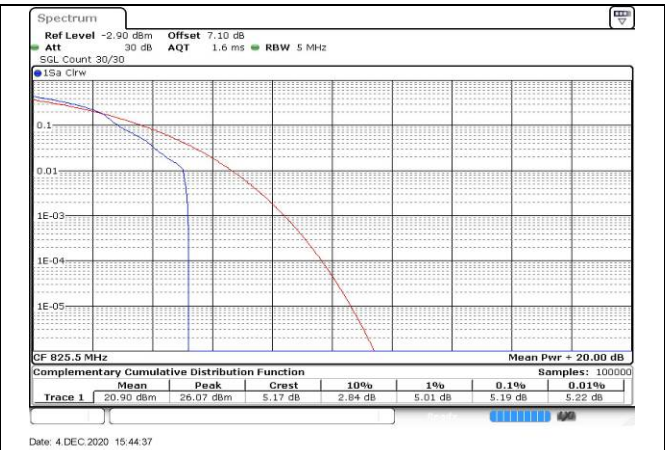


Fig.20

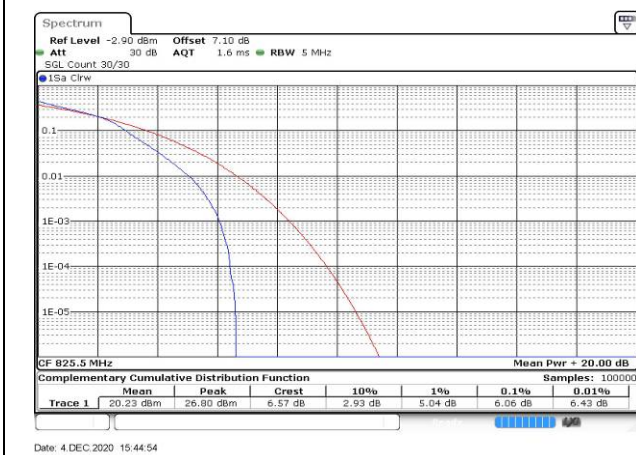


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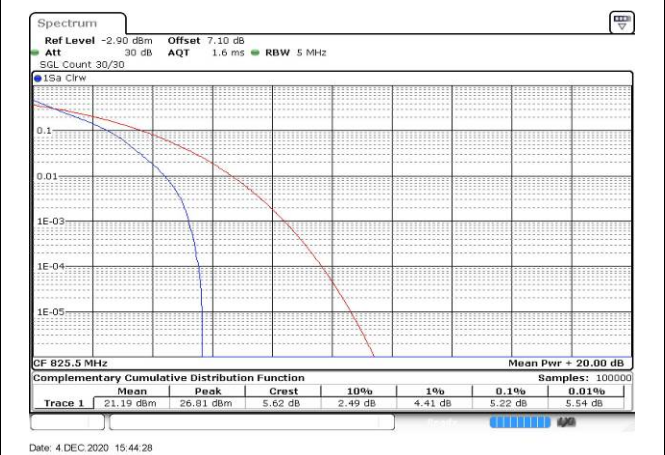


Fig.22

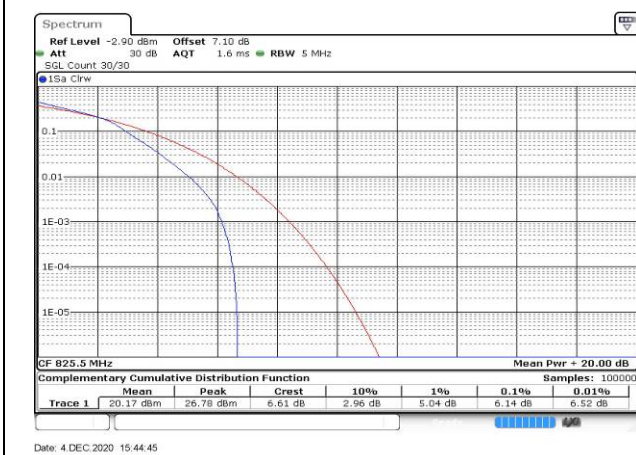


Fig.23

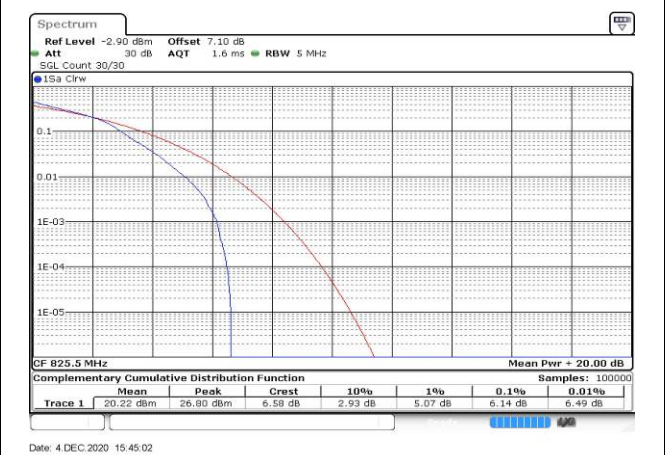


Fig.24



Fig.25

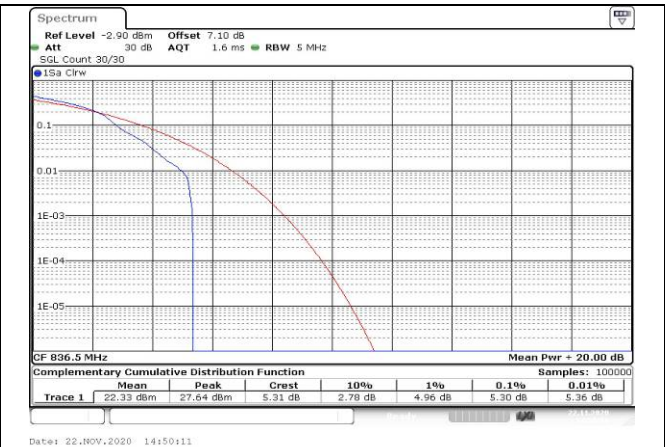


Fig.26

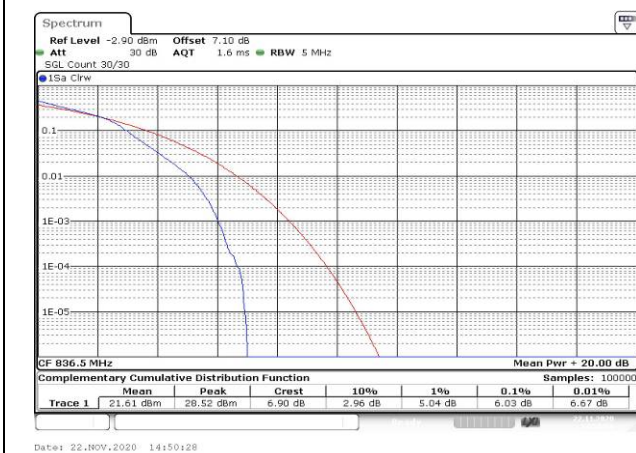


Fig.27

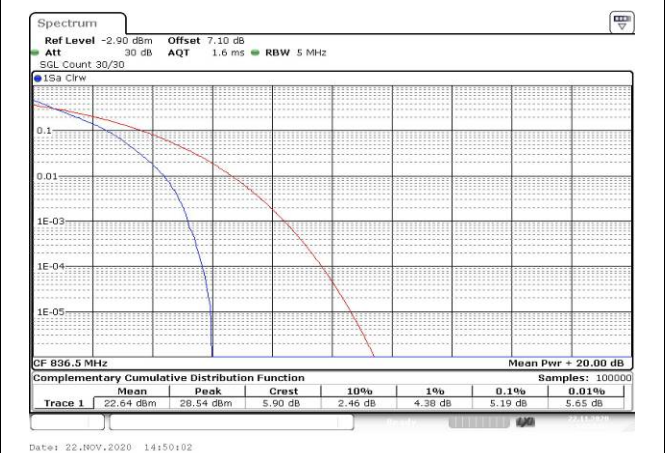


Fig.28

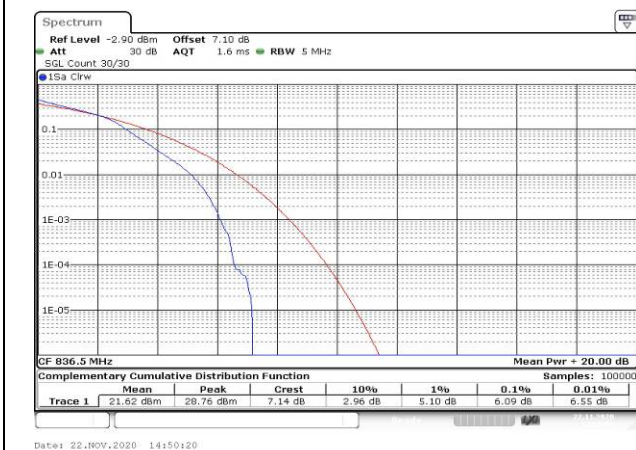


Fig.29

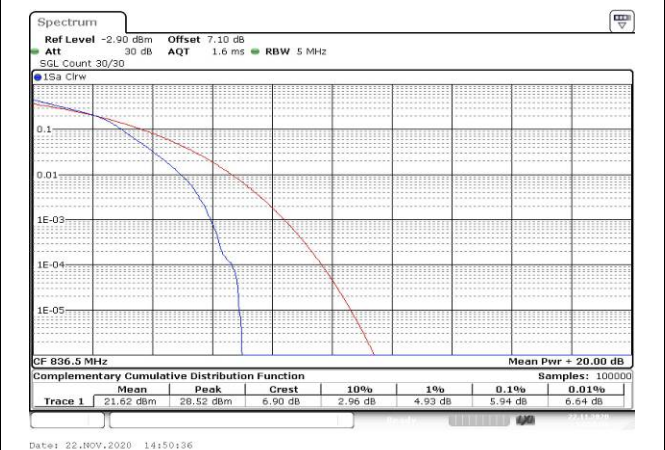


Fig.30