

**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	24.10
				1	3	24.12
				1	5	24.09
				3	0	24.22
				3	1	24.15
				3	3	24.20
	836.5	20525		6	0	23.24
				1	0	24.27
				1	3	24.26
				1	5	24.27
				3	0	24.29
				3	1	24.35
	848.3	20643		3	3	24.27
				6	0	23.36
				1	0	24.31
				1	3	24.31
				1	5	24.29
				3	0	24.39
16QAM	824.7	20407	3	1	24.47	
			3	3	24.43	
			6	0	23.37	
			1	0	23.17	
			1	3	23.31	
			1	5	23.32	
	836.5	20525	3	0	23.21	
			3	1	23.27	
			3	3	23.35	
			6	0	22.12	
			1	0	23.29	
			1	3	23.30	
	848.3	20643	1	5	23.35	
			3	0	23.57	
			3	1	23.42	
			3	3	23.61	
			6	0	22.28	
			1	0	23.42	
			1	3	23.44	
			1	5	23.40	
			3	0	23.28	
			3	1	23.34	
			3	3	23.34	
			6	0	22.50	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	22.02
				1	3	22.05
				1	5	22.10
				3	0	22.09
				3	1	22.07
				3	3	22.11
	836.5	20525		6	0	22.06
				1	0	22.34
				1	3	22.32
				1	5	22.26
				3	0	22.25
				3	1	22.26
	848.3	20643		3	3	22.27
				6	0	22.27
				1	0	22.38
				1	3	22.35
				1	5	22.52
				3	0	22.42
				3	1	22.47
				3	3	22.45
				6	0	22.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	24.18
				1	8	24.12
				1	14	24.14
				8	0	23.21
				8	4	23.18
				8	7	23.19
	15	0		23.25		
	836.5	20525		1	0	24.38
				1	8	24.33
				1	14	24.32
				8	0	23.43
				8	4	23.40
				8	7	23.35
	836.5	20525		15	0	23.25
				1	0	24.35
				1	8	24.33
				1	14	24.33
				8	0	23.35
8			4	23.30		
16QAM	825.5	20415	8	7	23.30	
			15	0	23.31	
			1	0	23.83	
			1	8	23.79	
			1	14	23.77	
			8	0	22.44	
	836.5	20525	8	4	22.44	
			8	7	22.43	
			15	0	22.28	
			1	0	23.68	
			1	8	23.62	
			1	14	23.59	
	836.5	20525	8	0	22.39	
			8	4	22.36	
			8	7	22.33	
			15	0	22.28	
			1	0	23.51	
			1	8	23.46	
			1	14	23.44	
			8	0	22.35	
			8	4	22.29	
			8	7	22.26	
			15	0	22.27	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	22.25
				1	8	22.28
				1	14	22.23
				8	0	22.27
				8	4	22.27
				8	7	22.28
				15	0	22.24
	836.5	20525		1	0	22.35
				1	8	22.33
				1	14	22.28
				8	0	22.29
				8	4	22.31
				8	7	22.26
				15	0	22.25
	836.5	20525		1	0	22.19
				1	8	22.22
				1	14	22.25
				8	0	22.26
				8	4	22.24
				8	7	22.24
				15	0	22.26

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	24.16
				1	12	24.12
				1	24	24.20
				12	0	23.22
				12	7	23.29
				12	13	23.27
	25	0		23.24		
	836.5	20525		1	0	24.19
				1	12	24.25
				1	24	24.16
				12	0	23.36
				12	7	23.33
				12	13	23.33
	25	0		23.34		
	846.5	20625		1	0	24.24
				1	12	24.23
				1	24	24.30
				12	0	23.33
12			7	23.32		
12			13	23.40		
25	0	23.31				
16QAM	826.5	20425	1	0	23.13	
			1	12	23.12	
			1	24	23.14	
			12	0	22.23	
			12	7	22.24	
			12	13	22.22	
	25	0	22.34			
	836.5	20525	1	0	23.57	
			1	12	23.43	
			1	24	23.48	
			12	0	22.36	
			12	7	22.32	
			12	13	22.38	
	25	0	22.33			
	846.5	20625	1	0	23.33	
			1	12	23.38	
			1	24	23.28	
			12	0	22.37	
12			7	22.34		
12			13	22.35		
25	0	22.39				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	22.35
				1	12	22.31
				1	24	22.31
				12	0	22.35
				12	7	22.28
				12	13	22.31
				25	0	22.36
	836.5	20525		1	0	22.33
				1	12	22.34
				1	24	22.37
				12	0	22.33
				12	7	22.35
				12	13	22.30
				25	0	22.29
	846.5	20625		1	0	22.38
				1	12	22.38
				1	24	22.38
				12	0	22.42
				12	7	22.35
				12	13	22.39
				25	0	22.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	24.18
				1	25	24.23
				1	49	24.23
				25	0	23.29
				25	12	23.32
				25	25	23.32
	836.5	20525		50	0	23.25
				1	0	24.29
				1	25	24.34
				1	49	24.26
				25	0	23.42
				25	12	23.41
	844	20600		25	25	23.34
				50	0	23.37
				1	0	24.30
1			25	24.37		
1			49	24.36		
25			0	23.38		
16QAM	829	20450	25	12	23.27	
			25	25	23.35	
			50	0	23.41	
			1	0	23.76	
			1	25	23.81	
			1	49	23.79	
	836.5	20525	25	0	22.31	
			25	12	22.36	
			25	25	22.38	
			50	0	22.34	
			1	0	23.45	
			1	25	23.44	
	844	20600	1	49	23.44	
			25	0	22.42	
			25	12	22.36	
25			25	22.33		
50			0	22.38		
1			0	23.36		
			1	25	23.35	
			1	49	23.37	
			25	0	22.50	
			25	12	22.41	
			25	25	22.52	
			50	0	22.39	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	22.25
				1	25	22.27
				1	49	22.34
				25	0	22.32
				25	12	22.28
				25	25	22.35
				50	0	22.35
	836.5	20525		1	0	22.36
				1	25	22.43
				1	49	22.41
				25	0	22.34
				25	12	22.41
				25	25	22.42
				50	0	22.36
	844	20600		1	0	22.40
				1	25	22.45
				1	49	22.40
				25	0	22.38
				25	12	22.38
				25	25	22.34
				50	0	22.44

## 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	1.088	Fig.1	1.082	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	1.088	Fig.7	1.082	Fig.8	1.082	Fig.9
	825.5	20415	3	15	0	2.670	Fig.10	2.683	Fig.11	2.670	Fig.12
	836.5	20525		15	0	2.683	Fig.13	2.670	Fig.14	2.683	Fig.15
	847.5	20635		15	0	2.683	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	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	844	20600		50	0	8.944	Fig.34	8.987	Fig.35	8.944	Fig.36

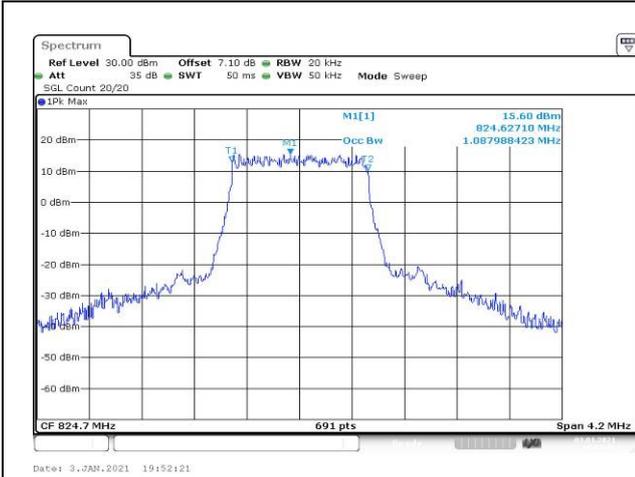


Fig.1

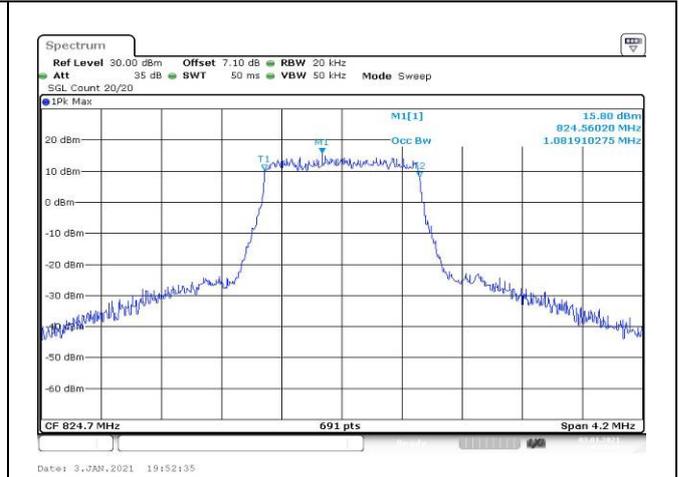


Fig.2

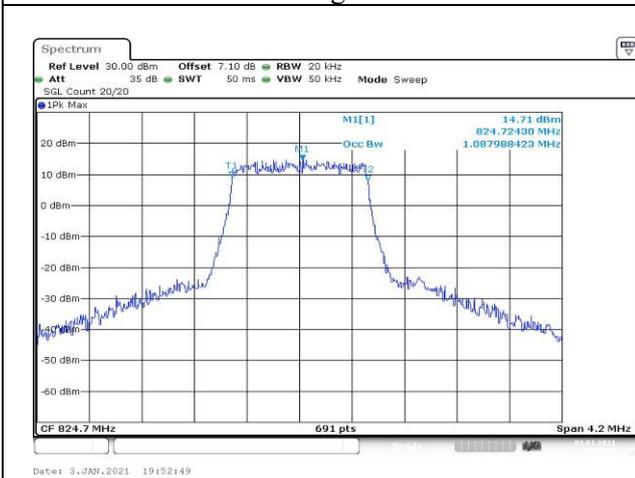


Fig.3

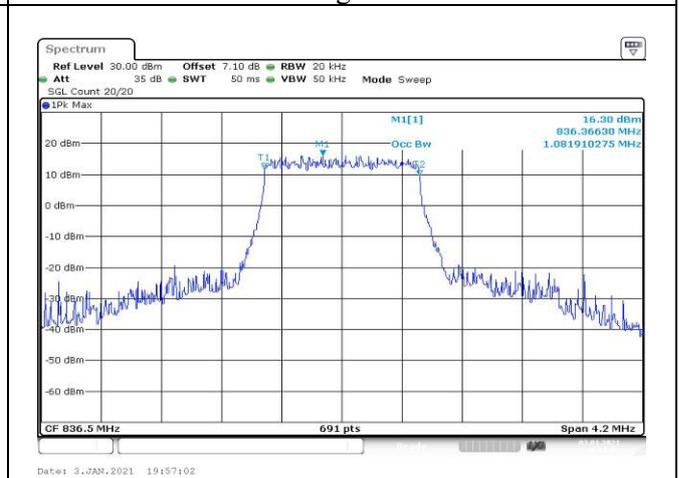


Fig.4

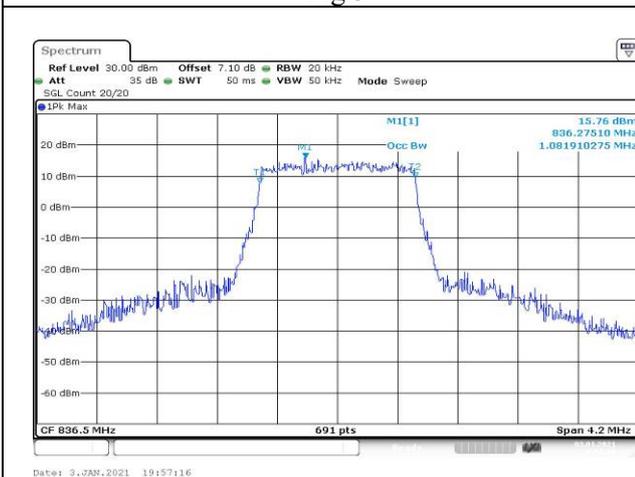


Fig.5

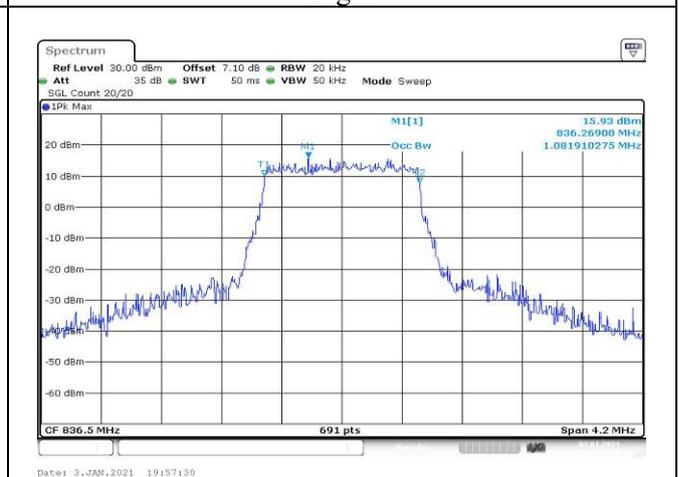
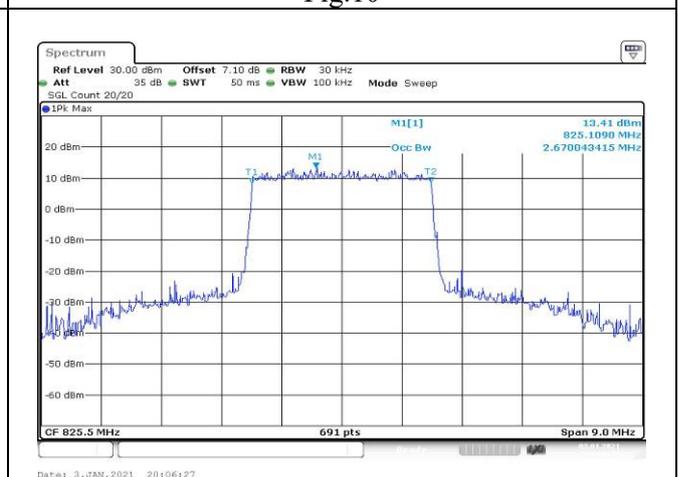
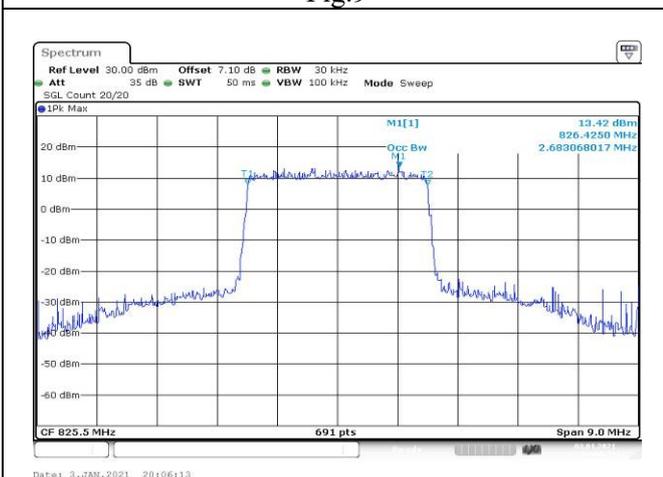
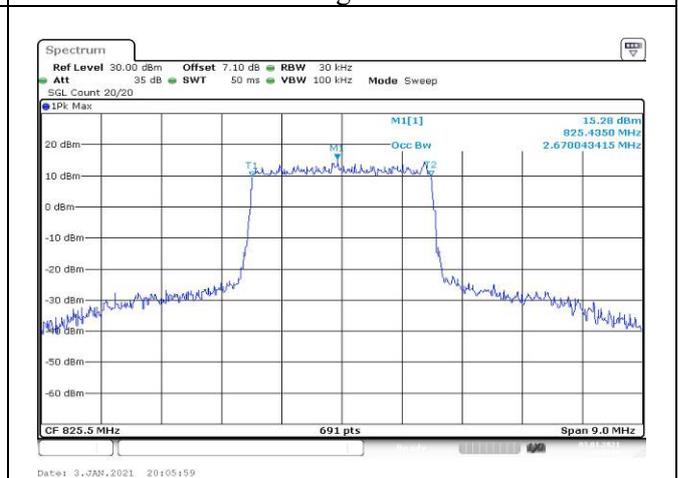
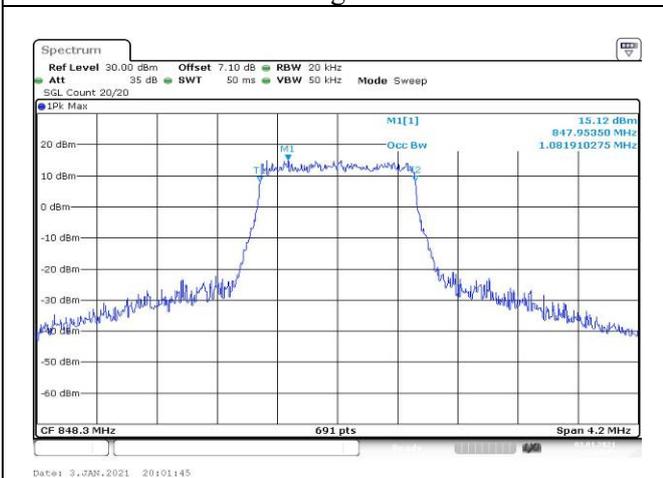
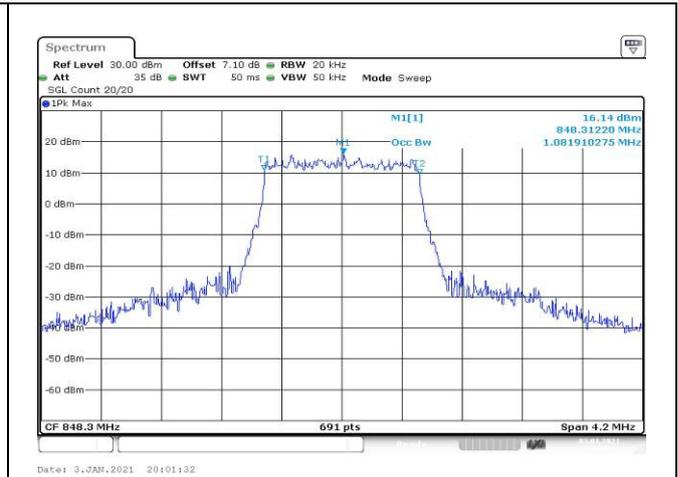
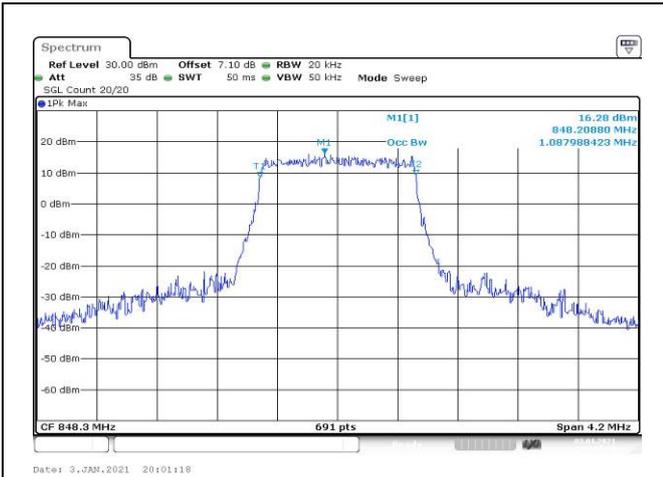


Fig.6



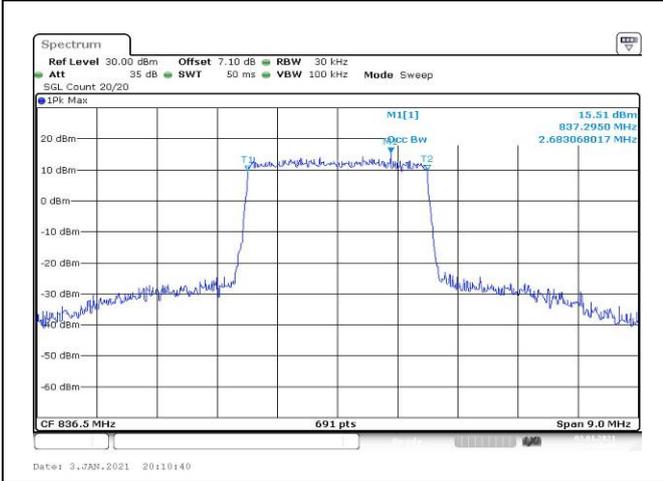


Fig.13

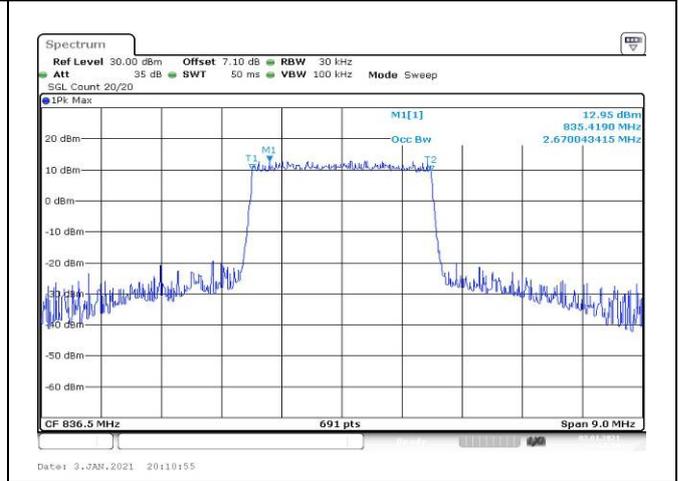


Fig.14

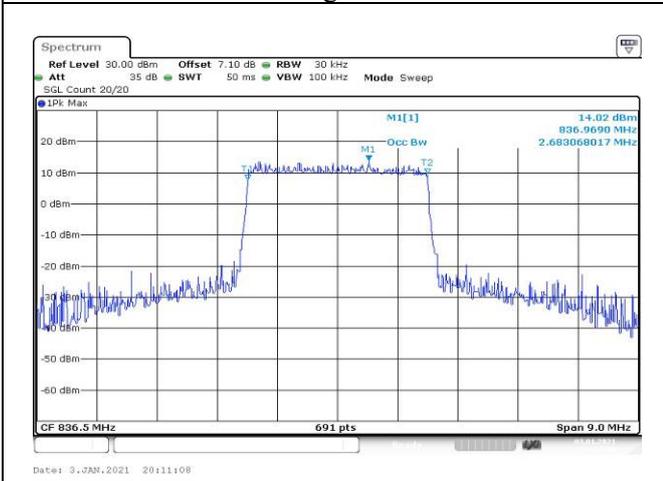


Fig.15

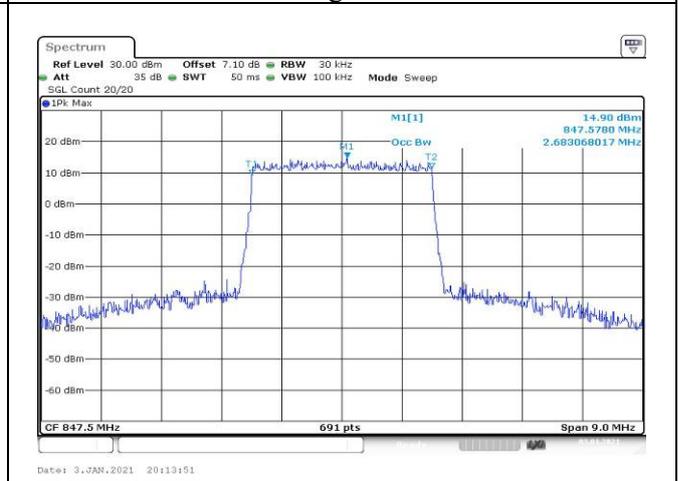


Fig.16

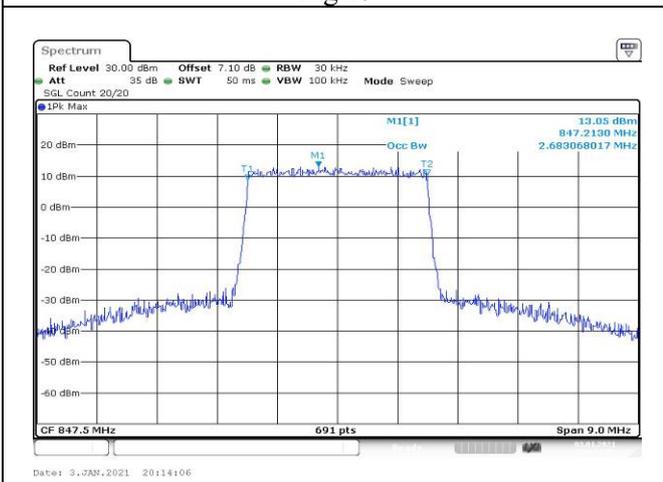


Fig.17

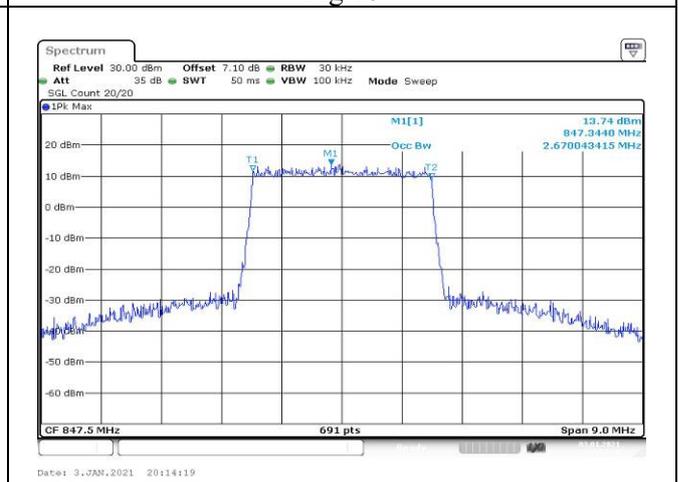
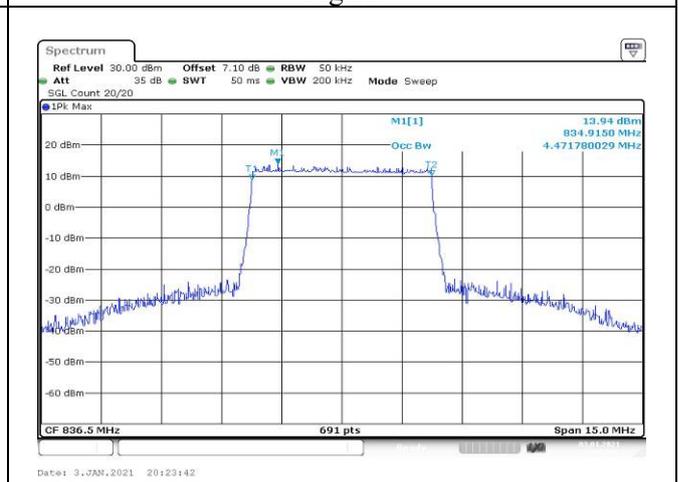
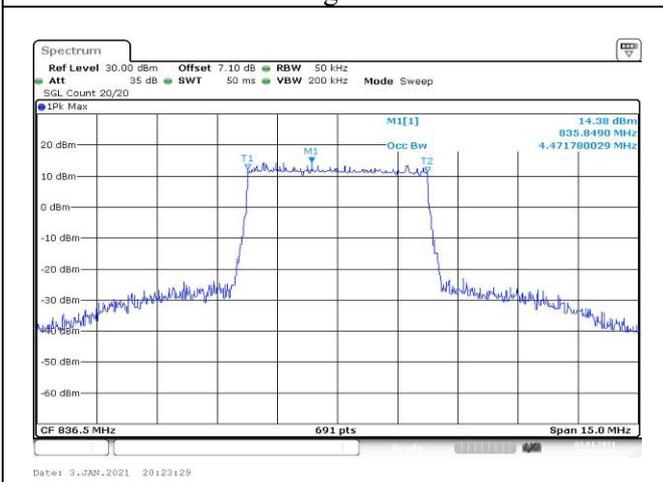
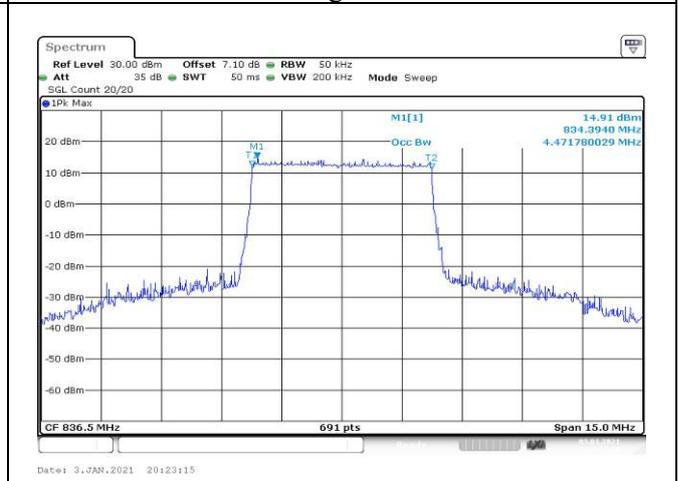
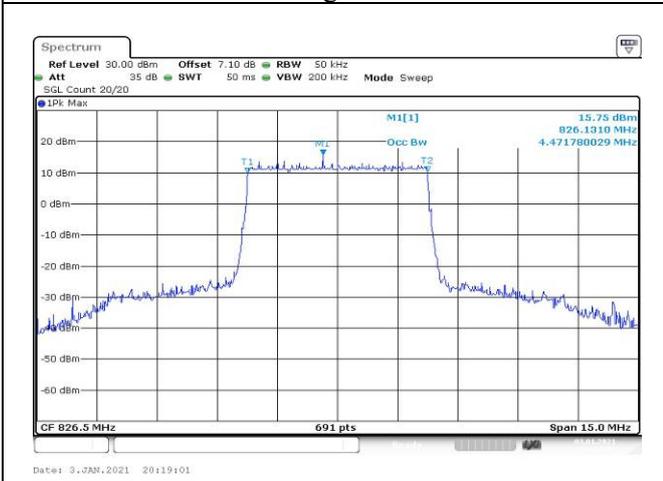
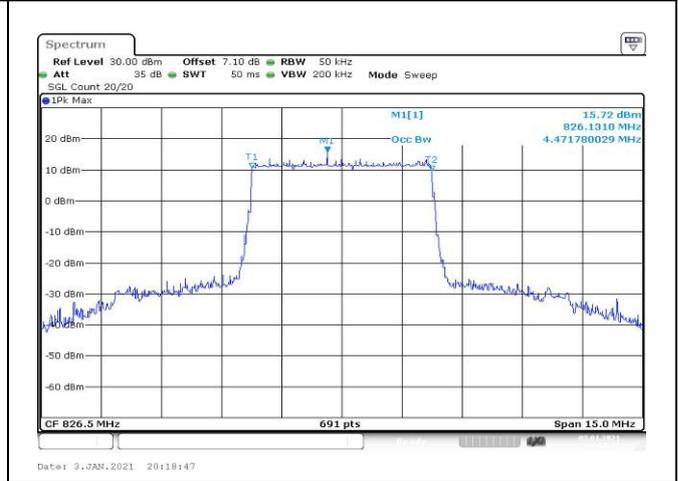
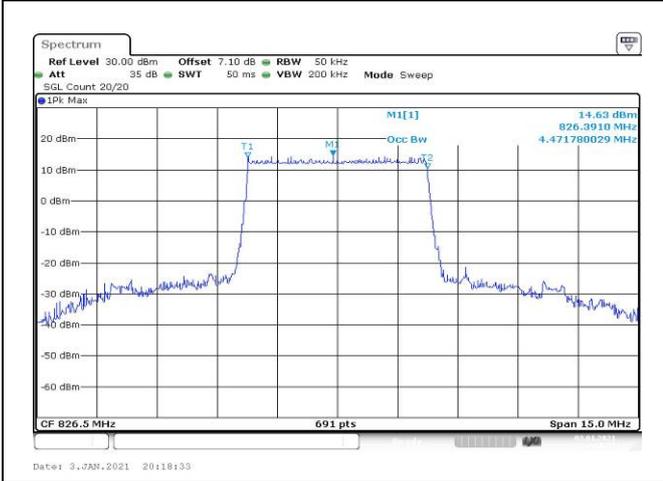


Fig.18



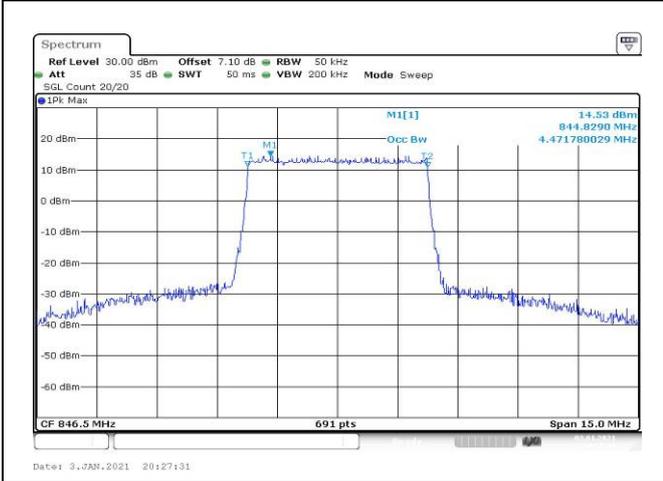


Fig.25

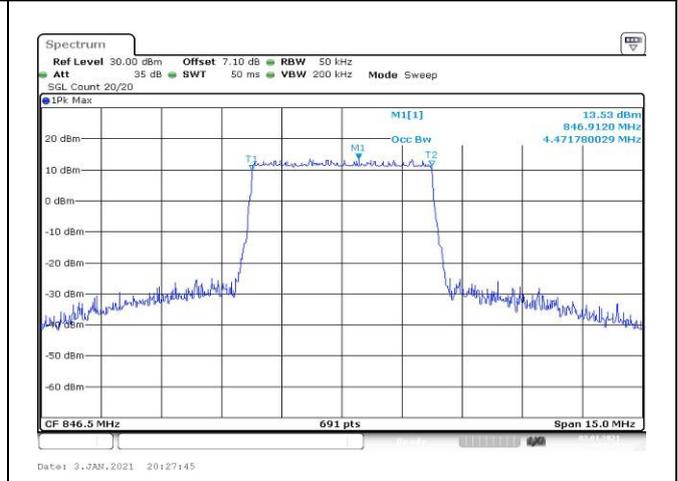


Fig.26

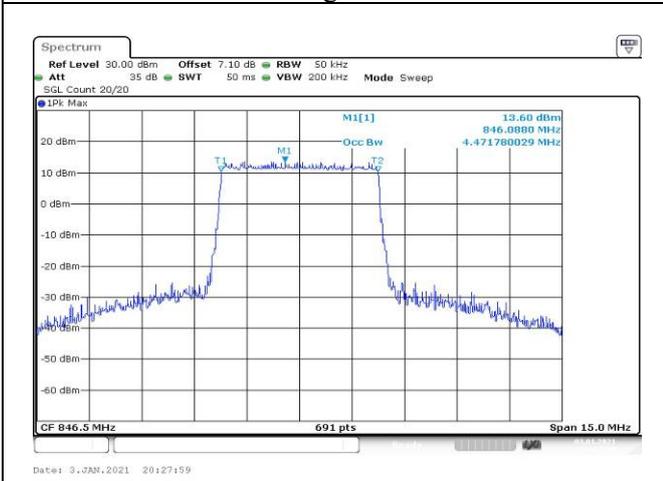


Fig.27

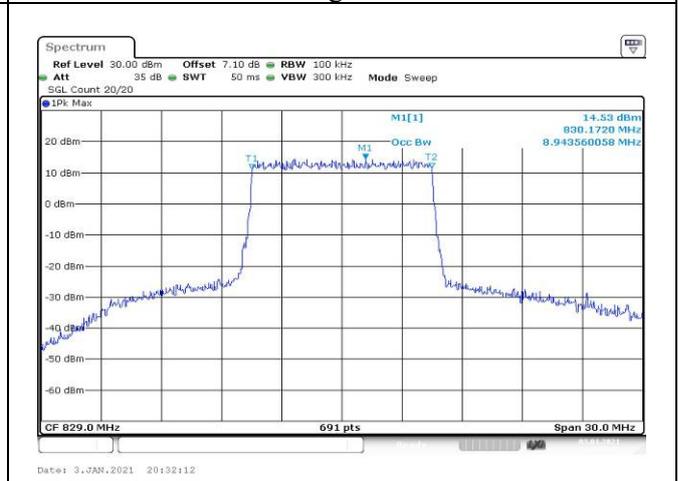


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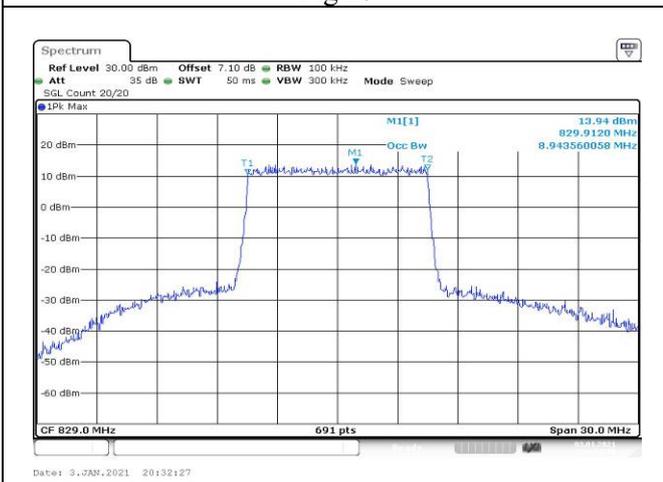


Fig.29

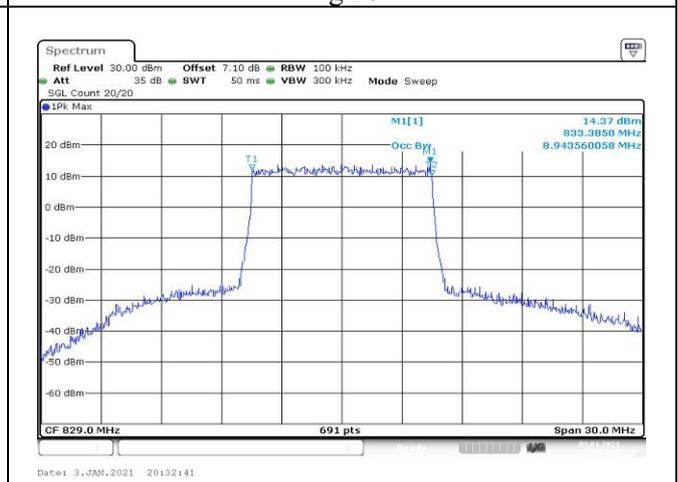


Fig.30

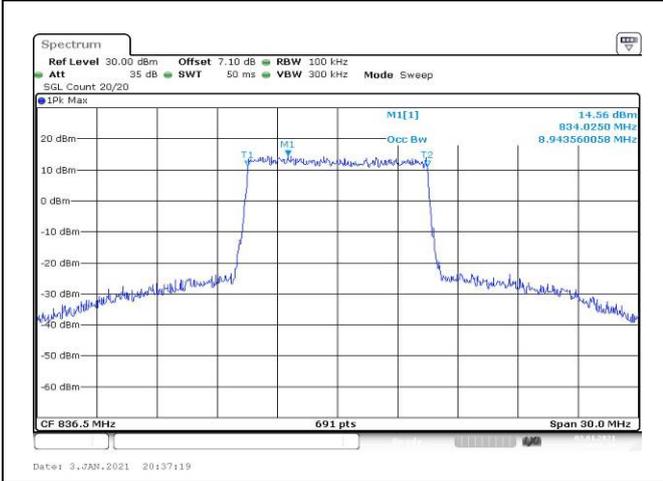


Fig.31

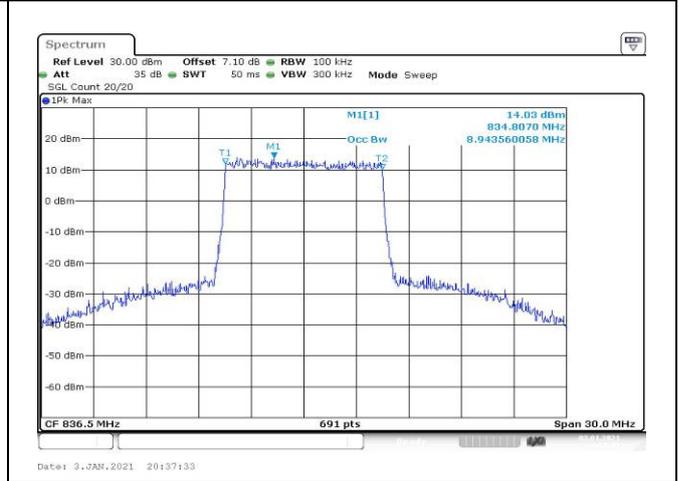


Fig.32

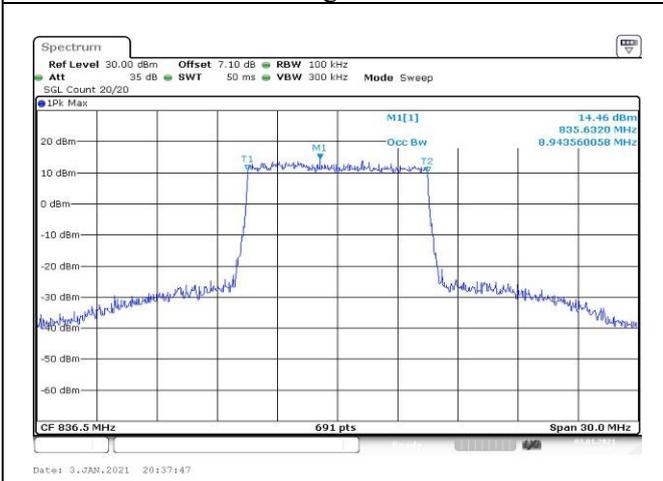


Fig.33

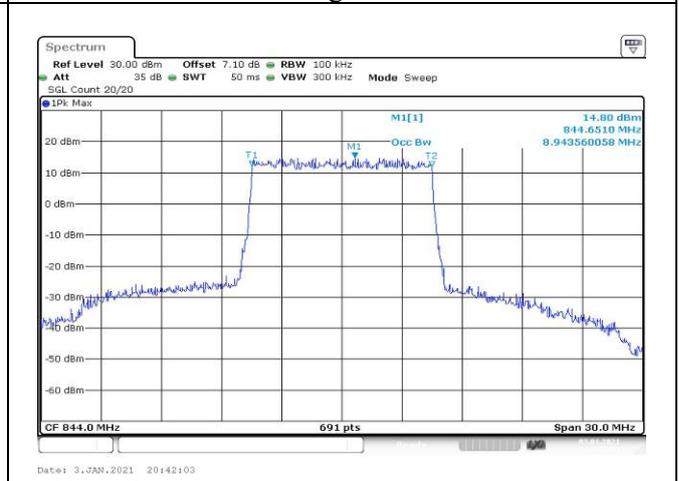


Fig.34

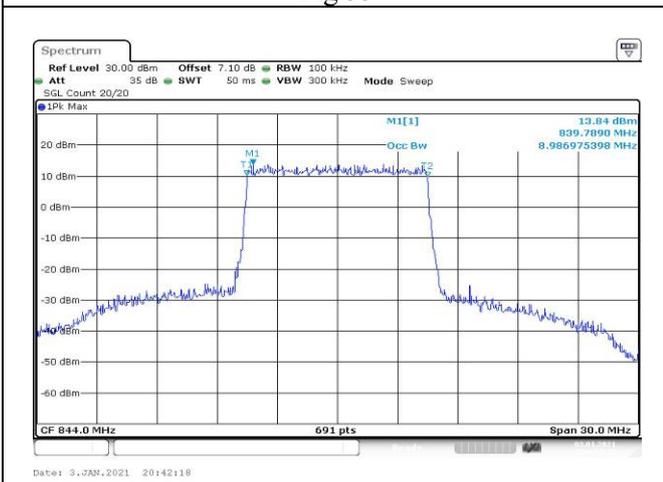


Fig.35

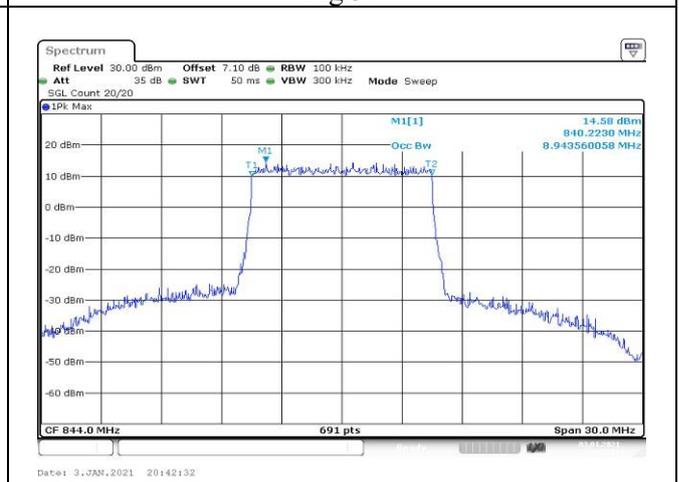


Fig.36

### 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	1.252	Fig.1	1.258	Fig.2	1.252	Fig.3
	836.5	20525		6	0	1.264	Fig.4	1.246	Fig.5	1.228	Fig.6
	848.3	20643		6	0	1.270	Fig.7	1.252	Fig.8	1.246	Fig.9
	825.5	20415	3	15	0	2.839	Fig.10	2.878	Fig.11	2.839	Fig.12
	836.5	20525		15	0	2.865	Fig.13	2.852	Fig.14	2.852	Fig.15
	847.5	20635		15	0	2.865	Fig.16	2.878	Fig.17	2.852	Fig.18
	826.5	20425	5	25	0	4.863	Fig.19	4.797	Fig.20	4.776	Fig.21
	836.5	20525		25	0	4.841	Fig.22	4.797	Fig.23	4.841	Fig.24
	846.5	20625		25	0	4.819	Fig.25	4.841	Fig.26	4.819	Fig.27
	829	20450	10	50	0	9.595	Fig.28	9.551	Fig.29	9.551	Fig.30
	836.5	20525		50	0	9.508	Fig.31	9.551	Fig.32	9.508	Fig.33
	844	20600		50	0	9.638	Fig.34	9.551	Fig.35	9.551	Fig.36

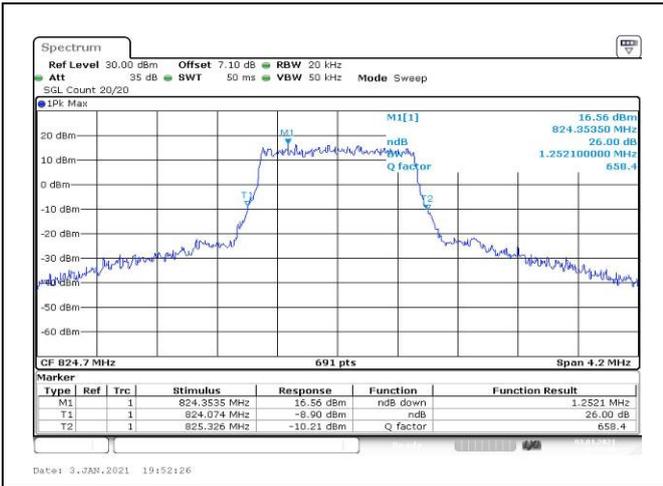


Fig.1

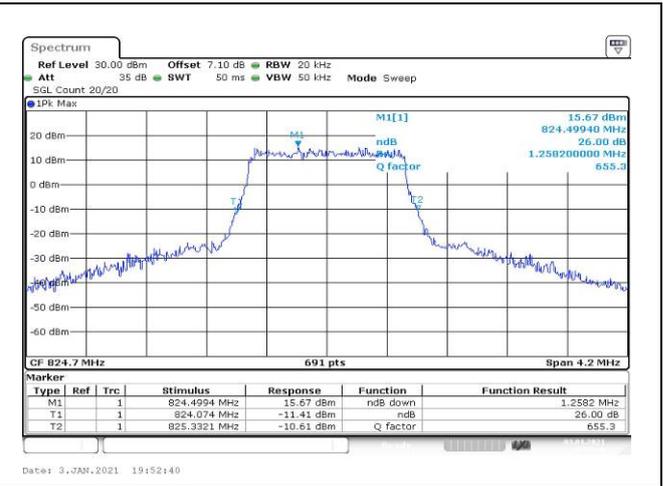


Fig.2

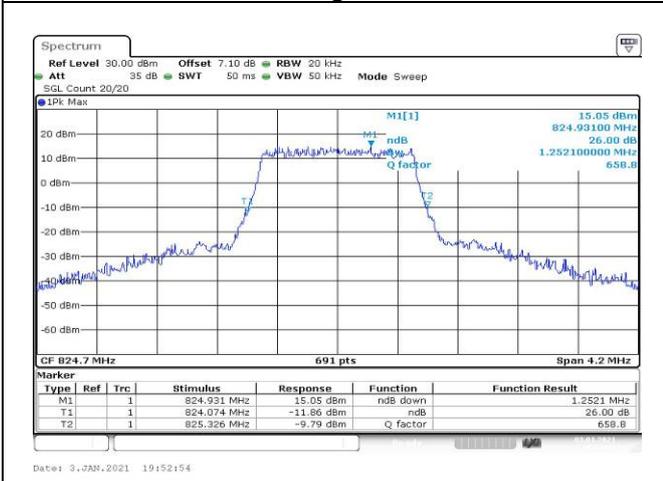


Fig.3

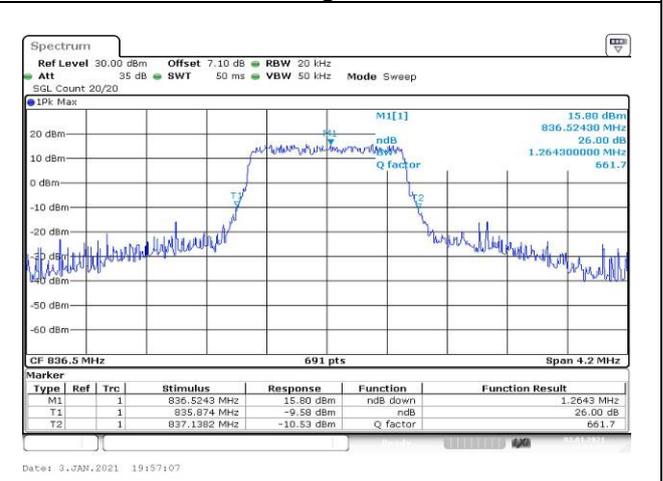


Fig.4

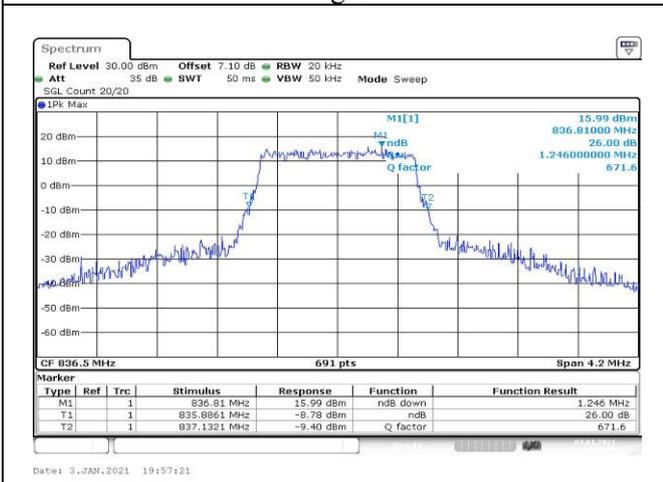


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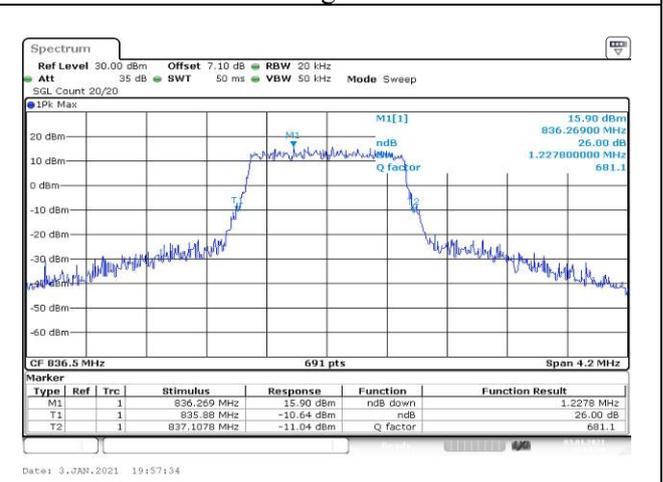


Fig.6

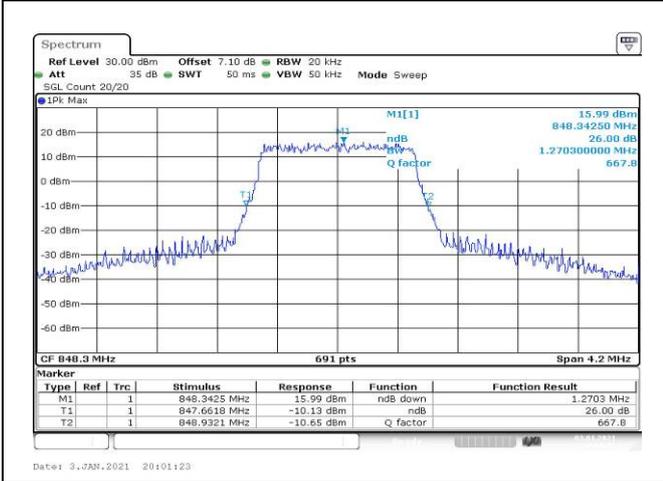


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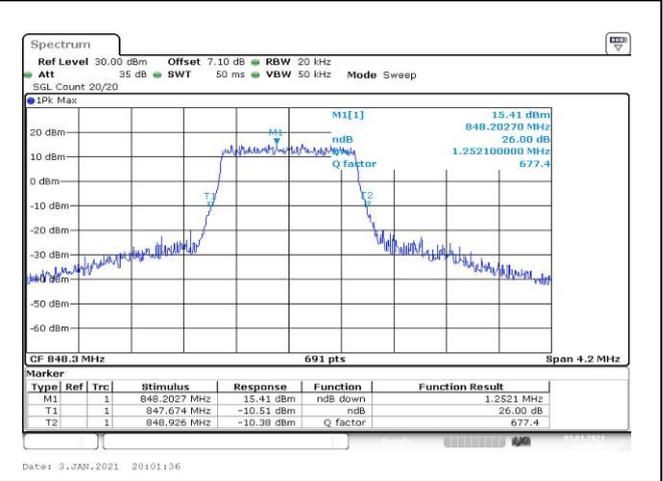


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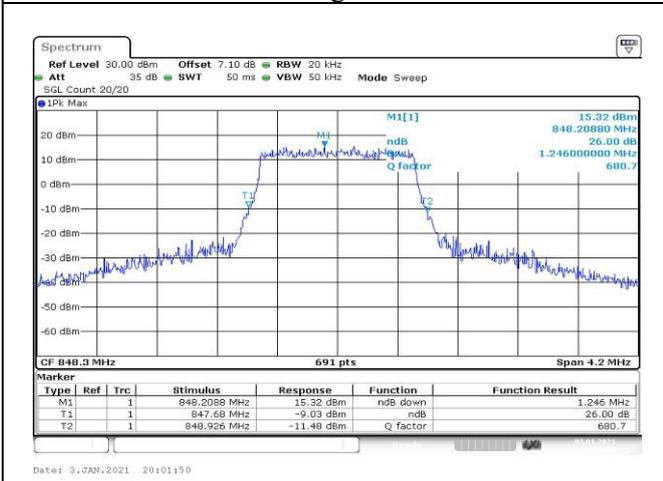


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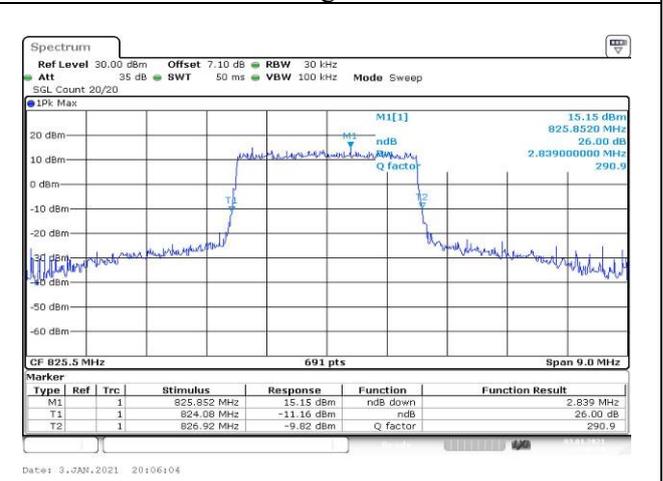


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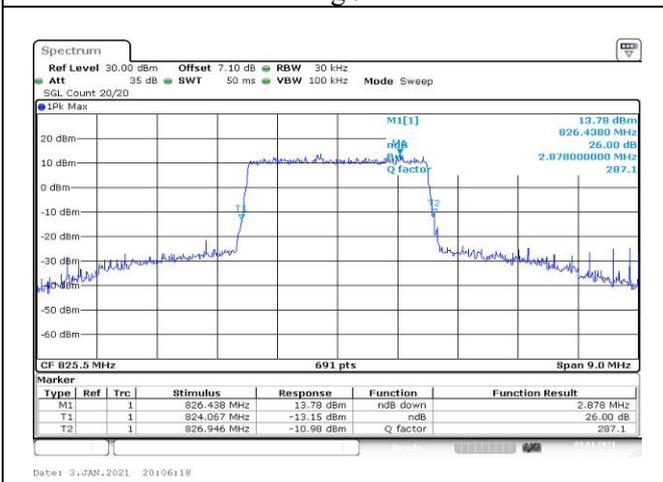


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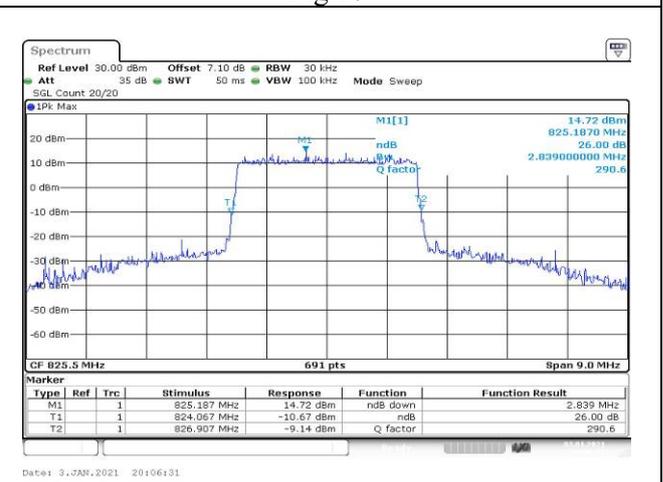


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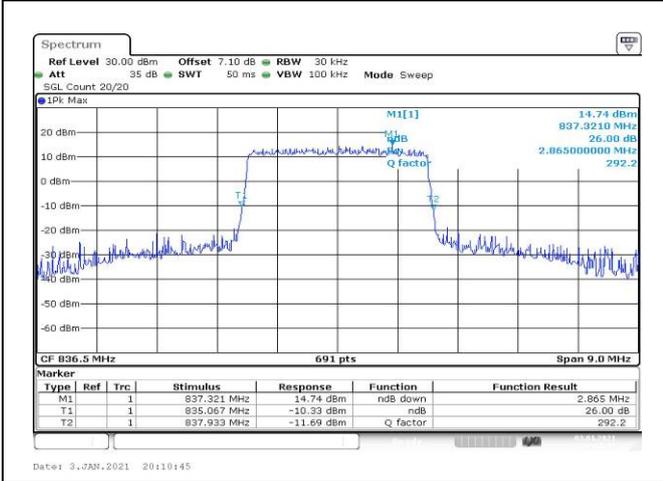


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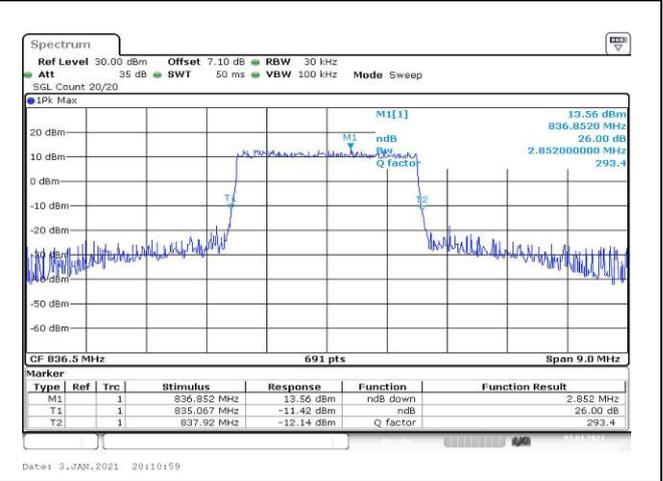


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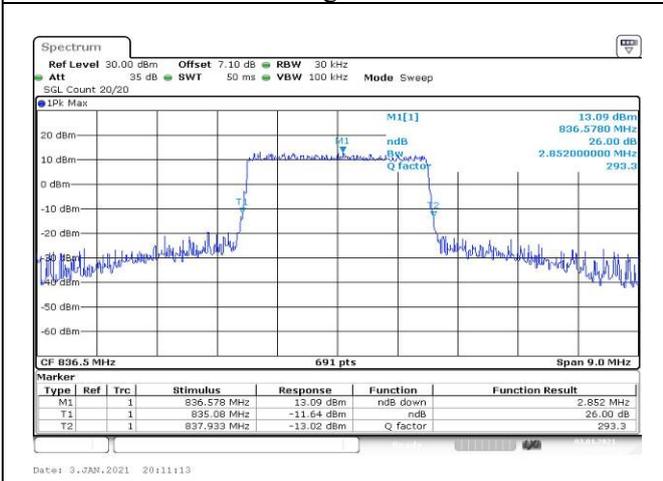


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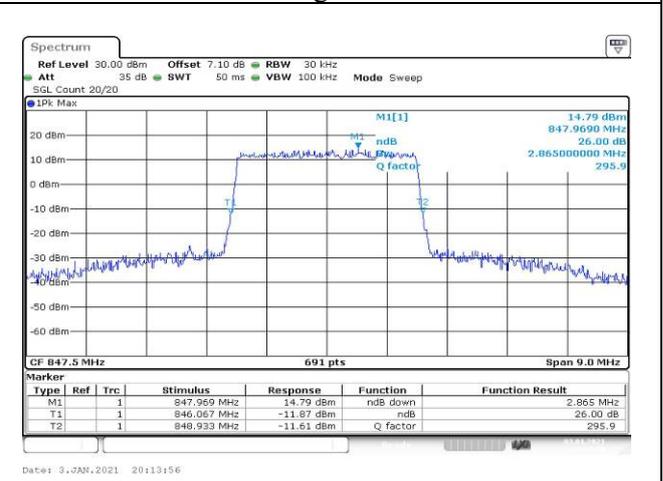


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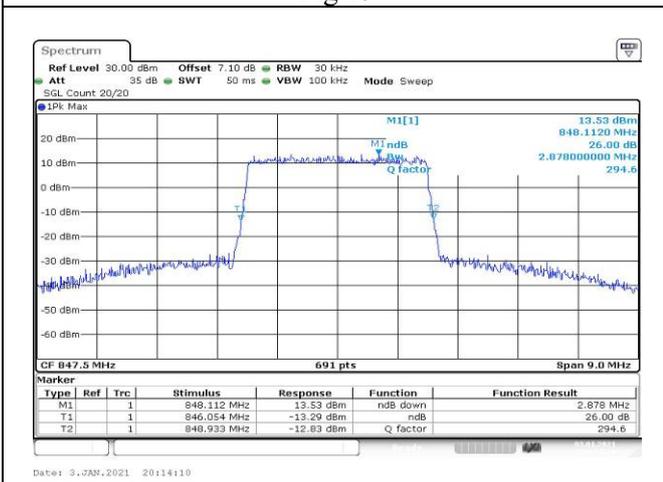


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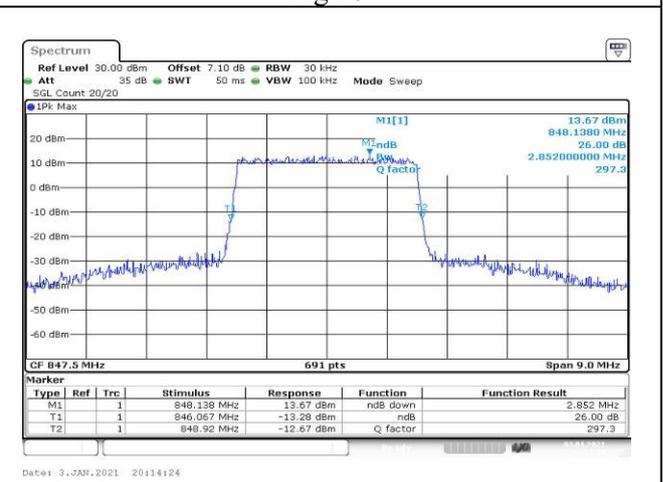


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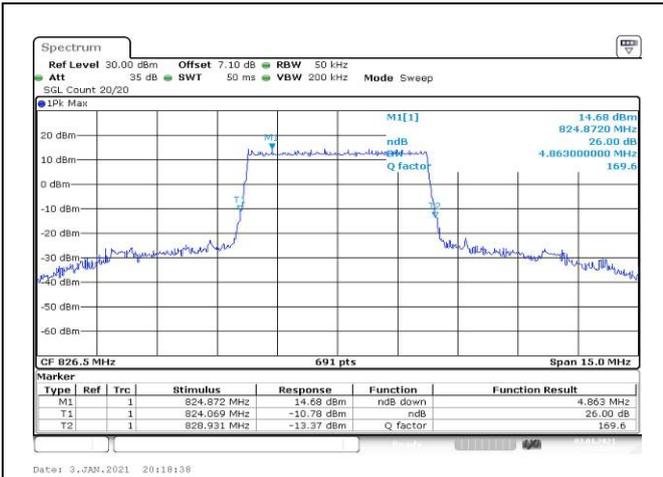


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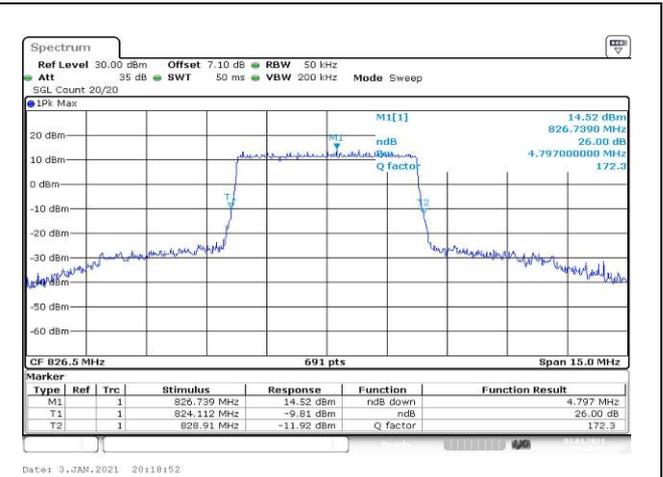


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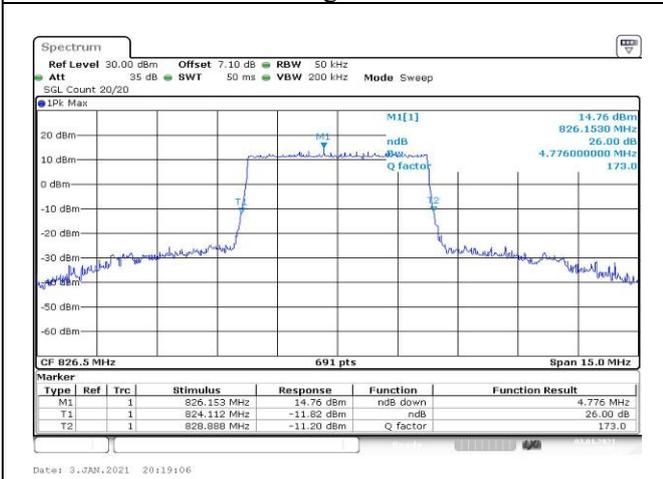


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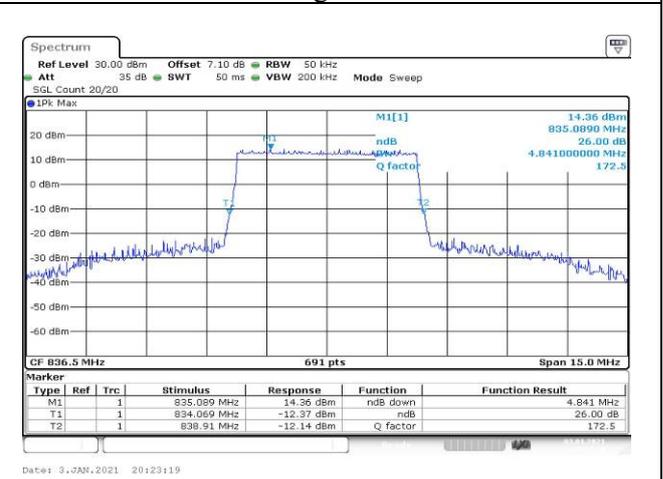


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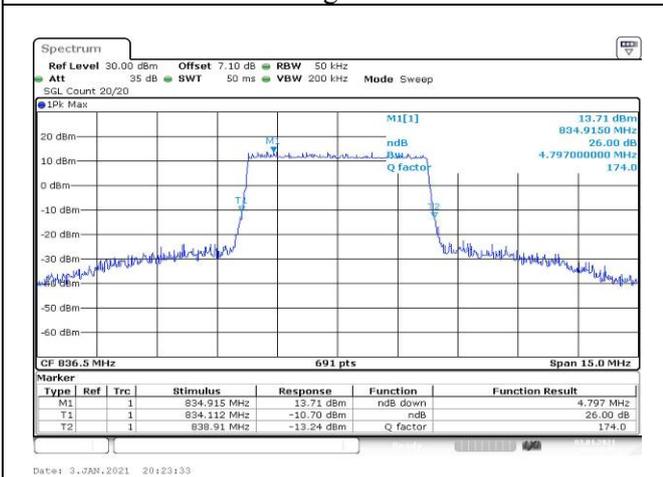


Fig.23

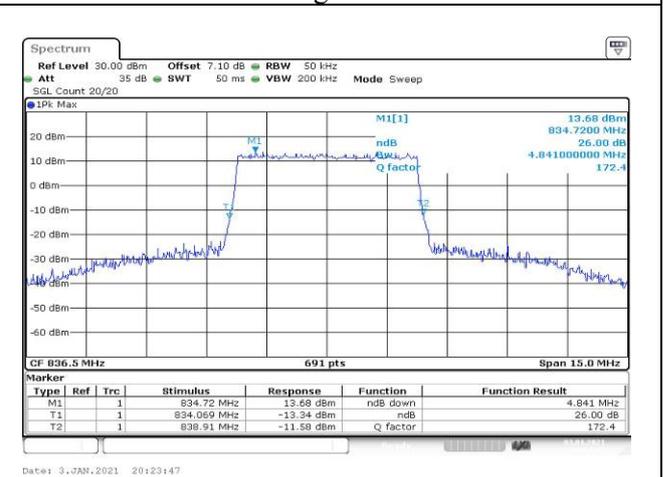


Fig.24

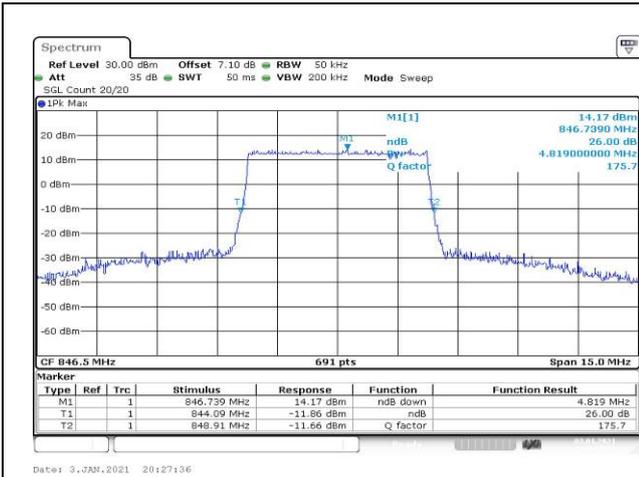


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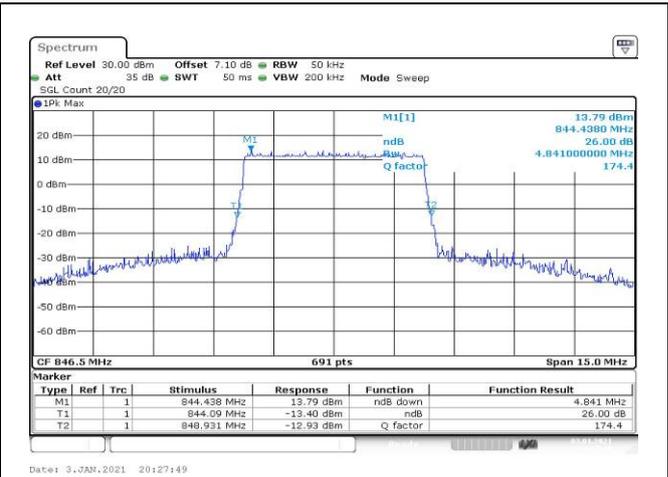


Fig.26

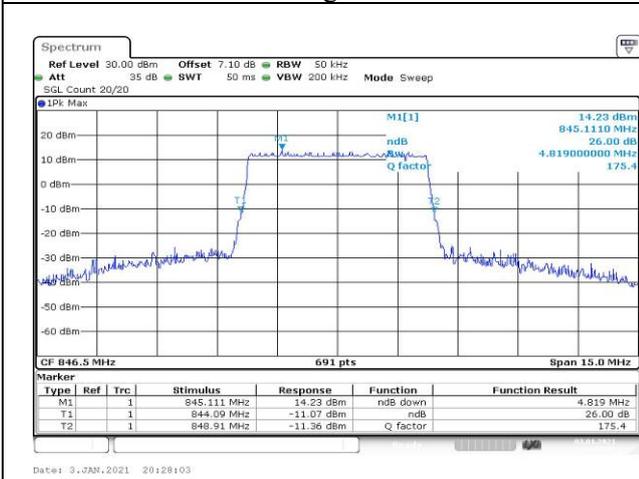


Fig.27

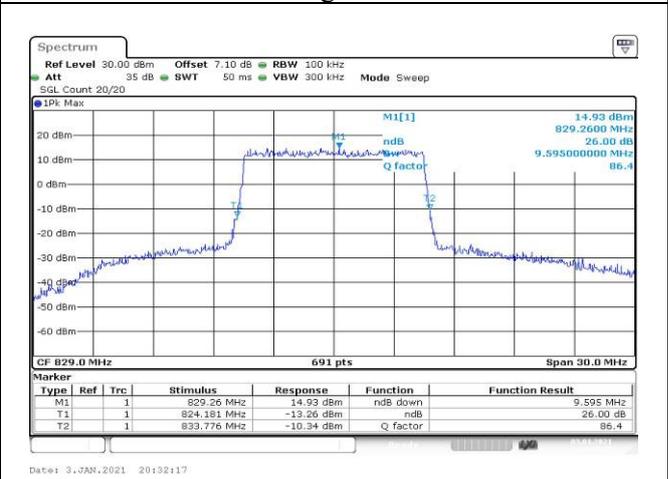


Fig.28

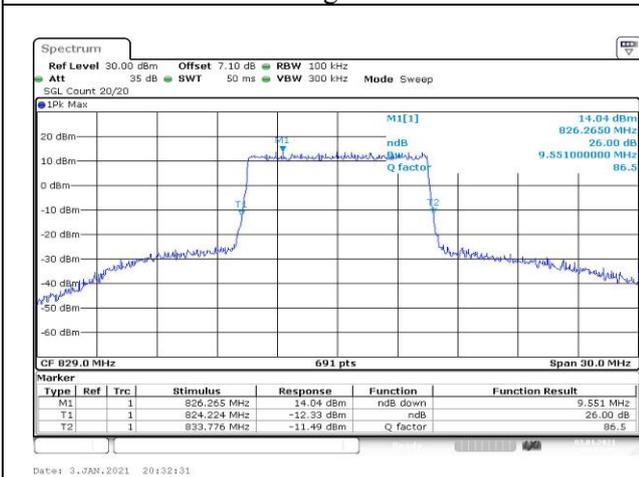


Fig.29

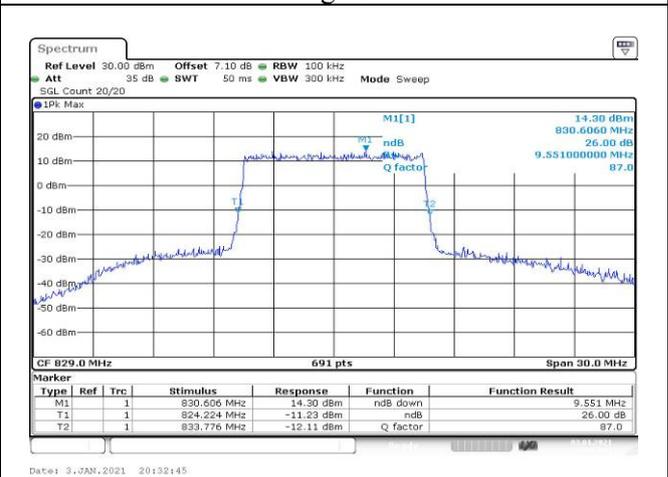


Fig.30

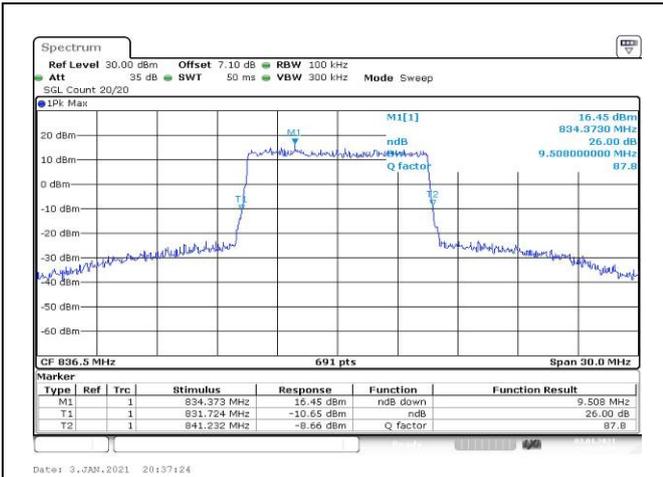


Fig.31

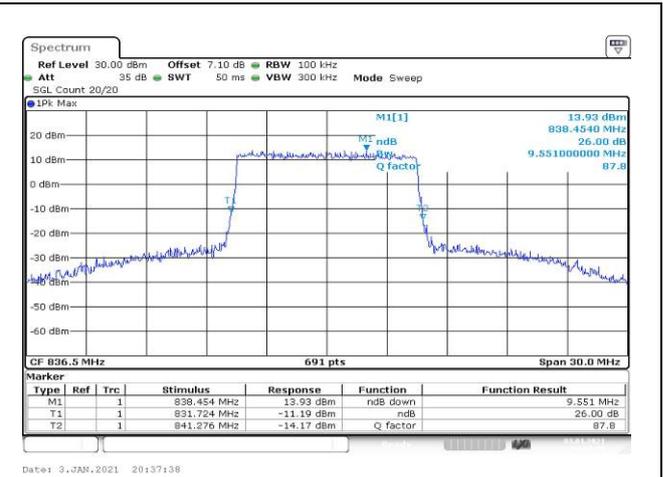


Fig.32

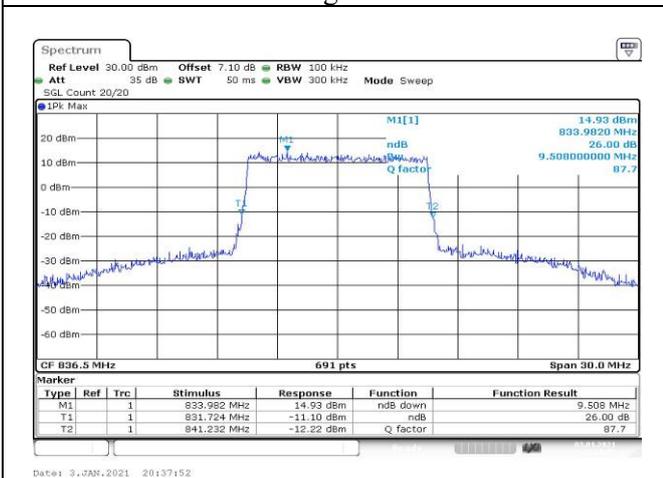


Fig.33

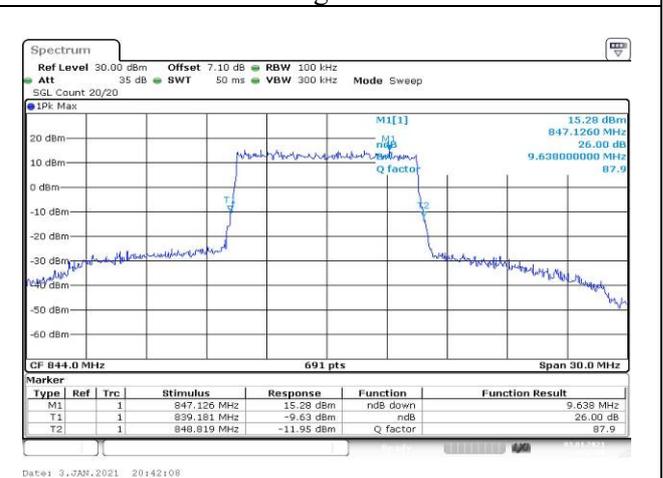


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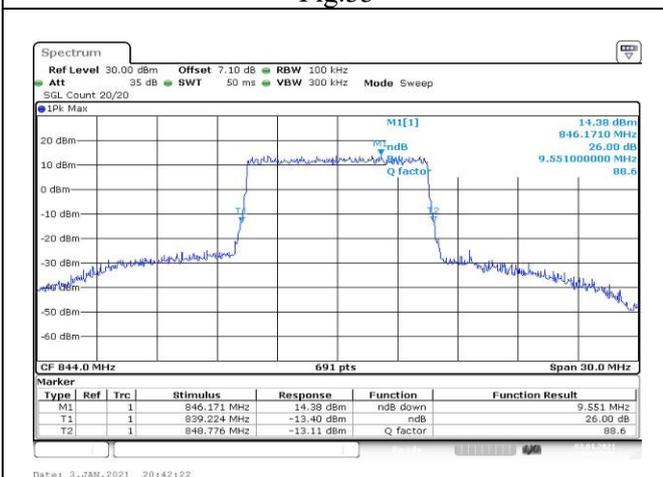


Fig.35



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	

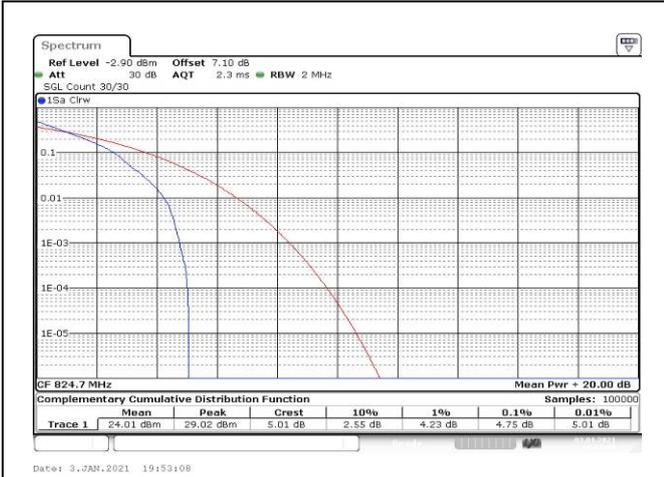


Fig.1

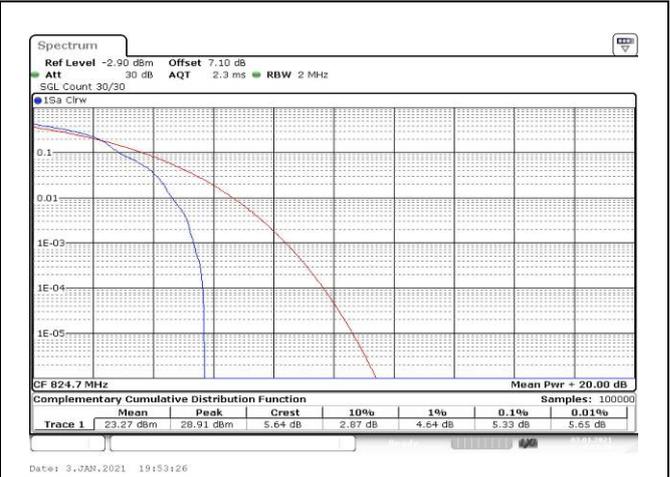


Fig.2



Fig.3



Fig.4

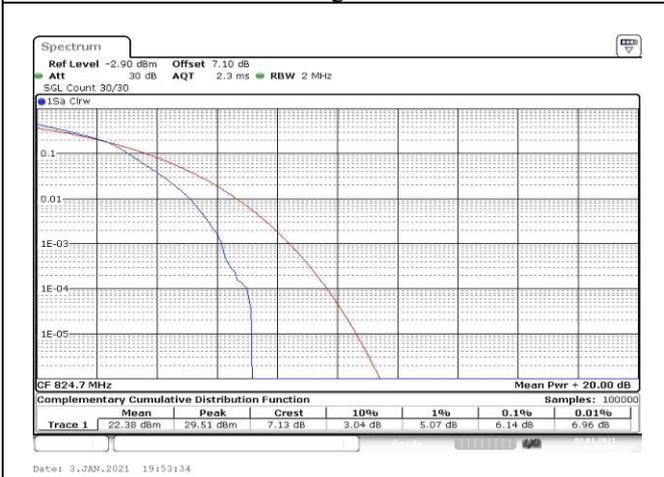


Fig.5

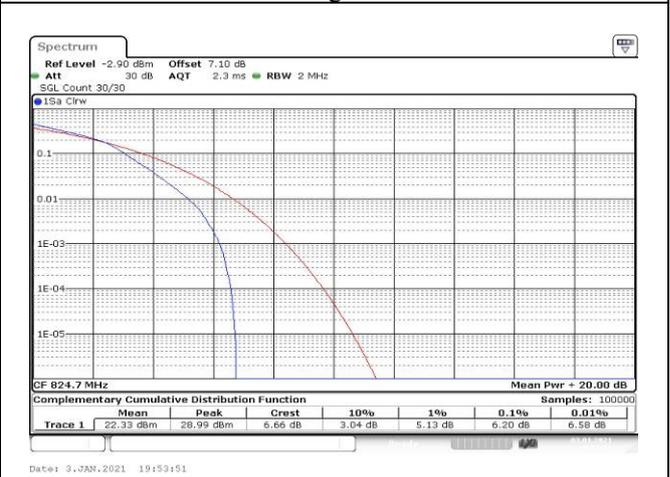


Fig.6

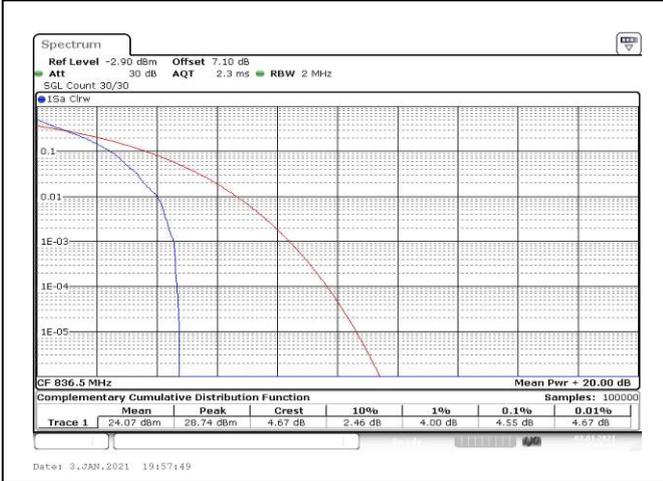


Fig.7

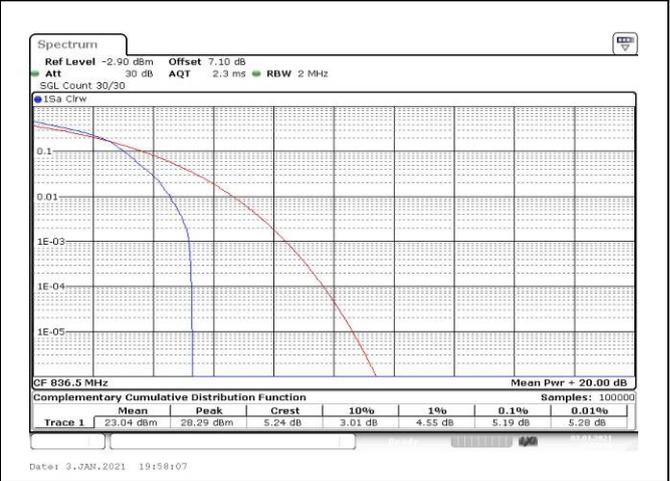


Fig.8

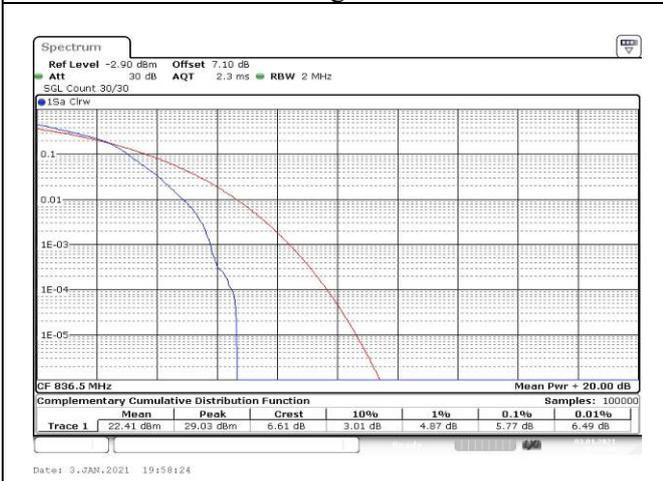


Fig.9

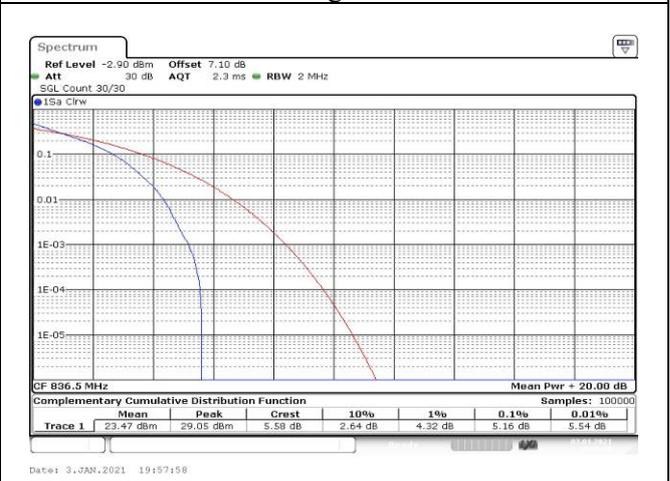


Fig.10

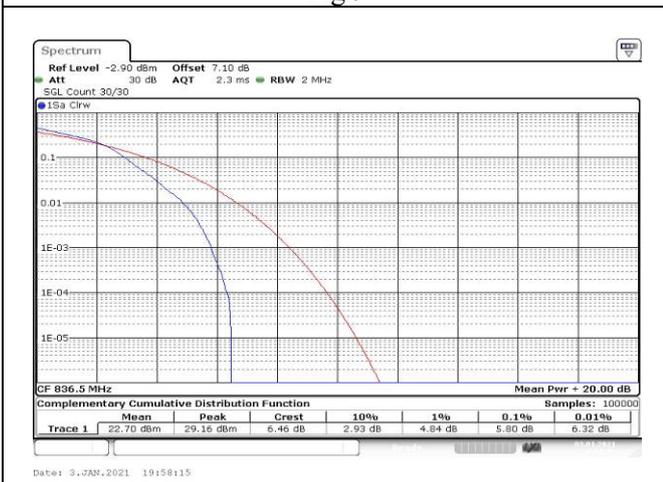


Fig.11

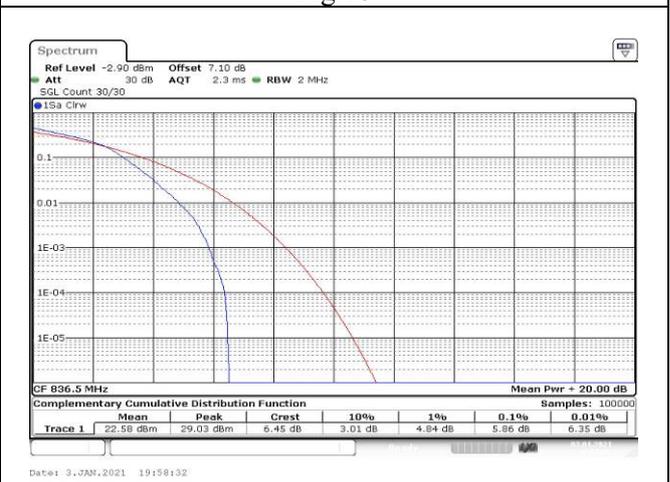


Fig.12

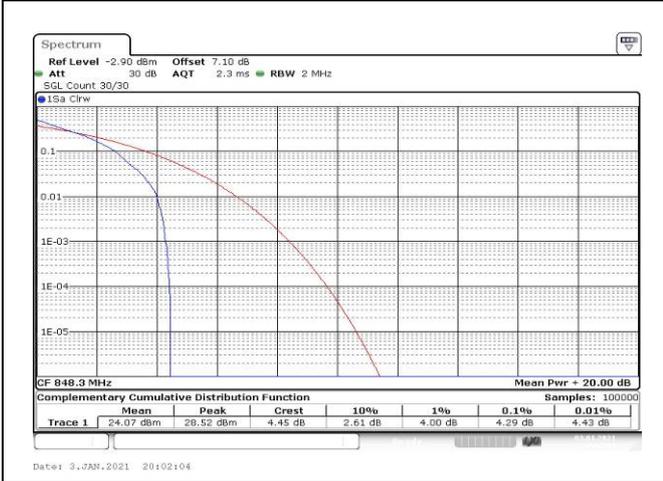


Fig.13

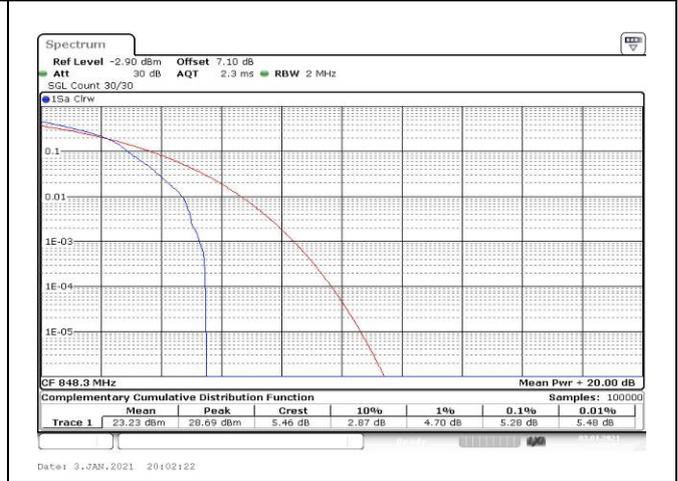


Fig.14

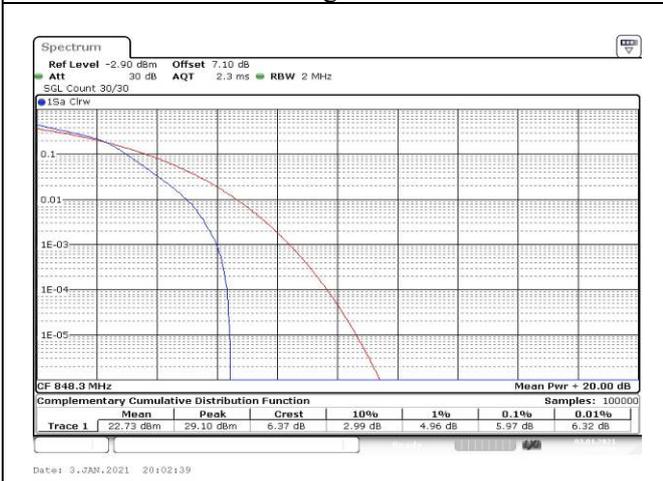


Fig.15

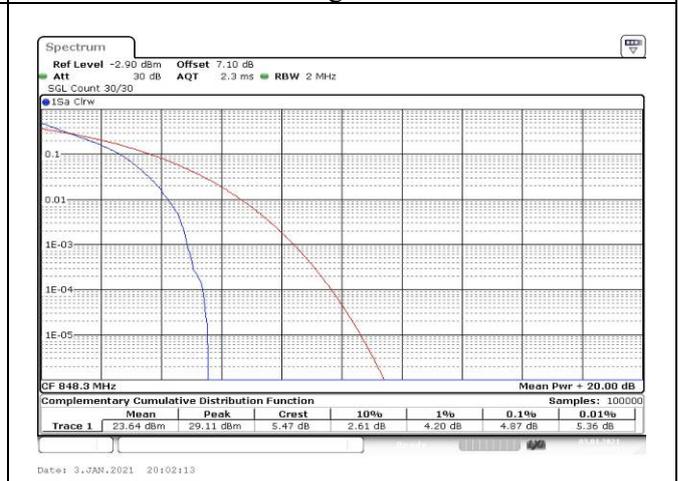


Fig.16

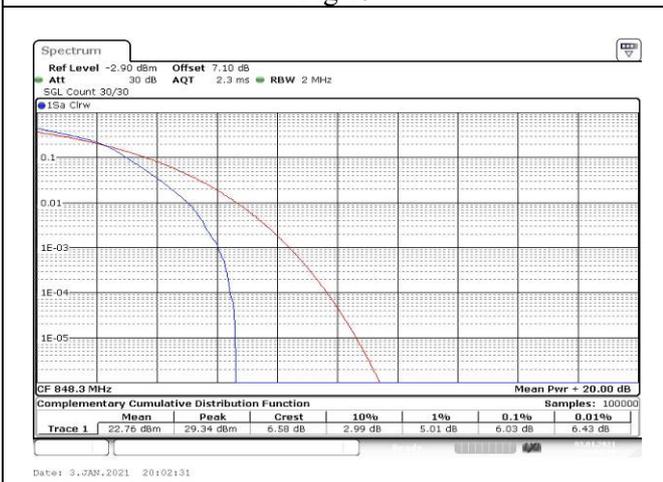


Fig.17



Fig.18

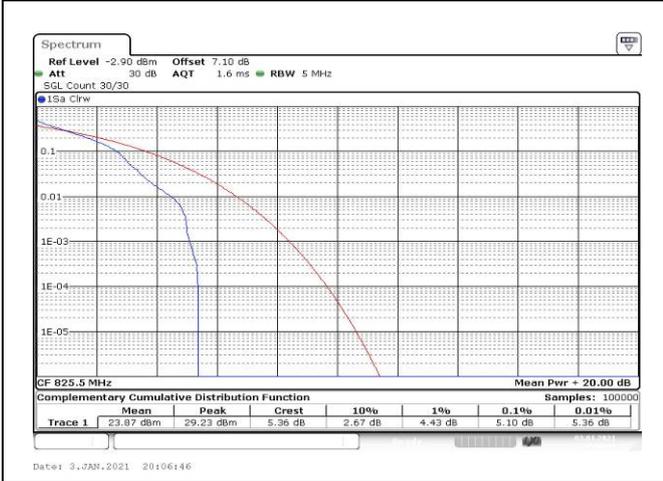


Fig.19

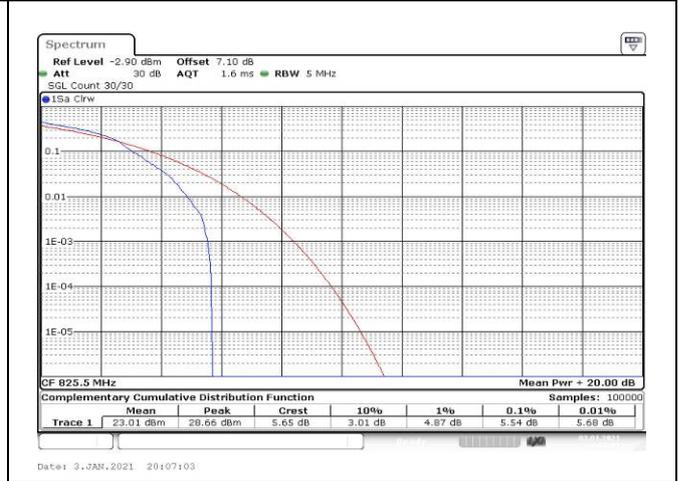


Fig.20



Fig.21

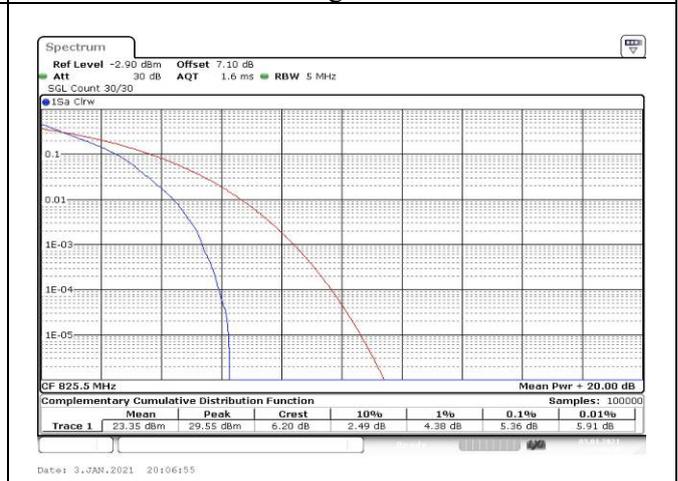


Fig.22

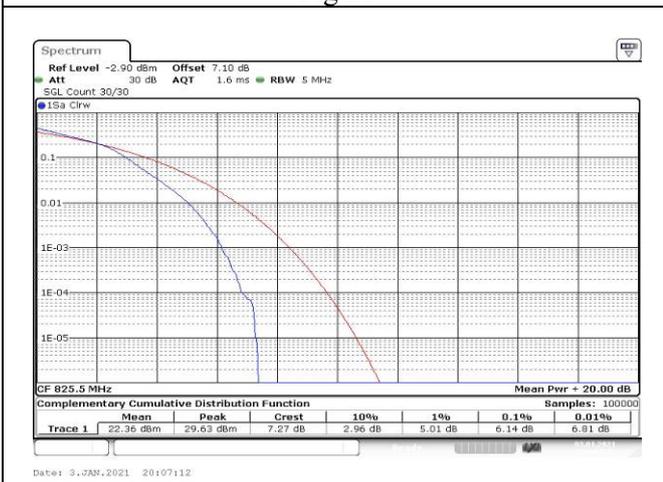


Fig.23

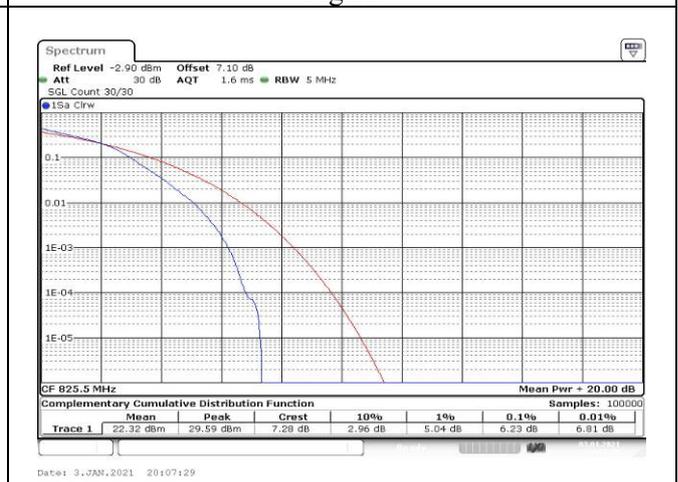


Fig.24

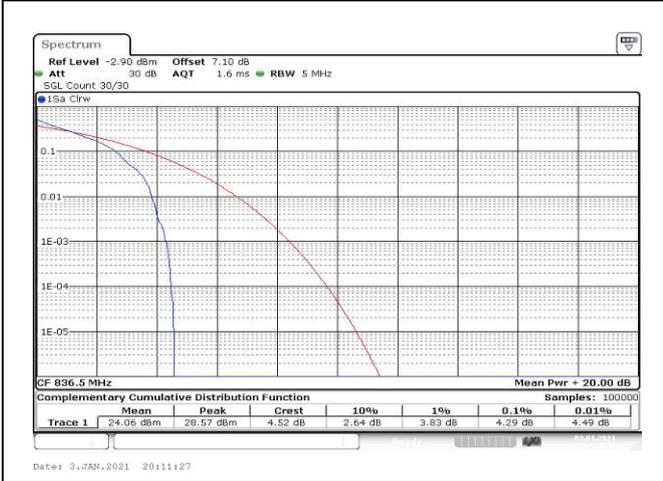


Fig.25

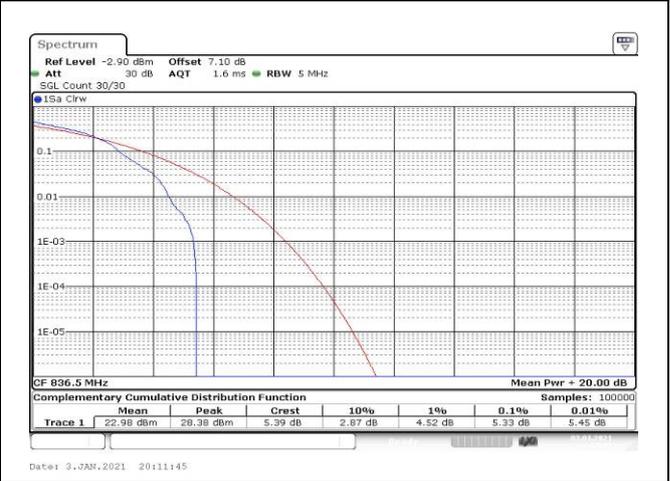


Fig.26

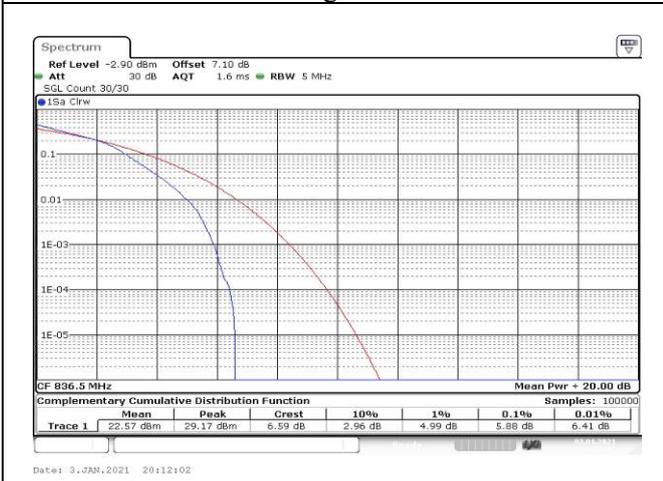


Fig.27

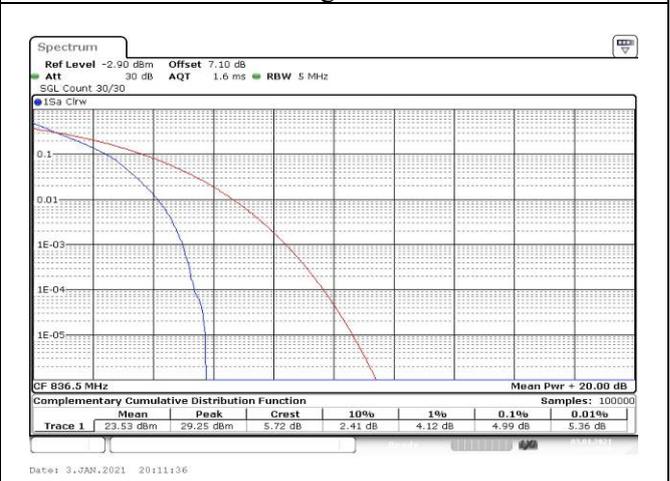


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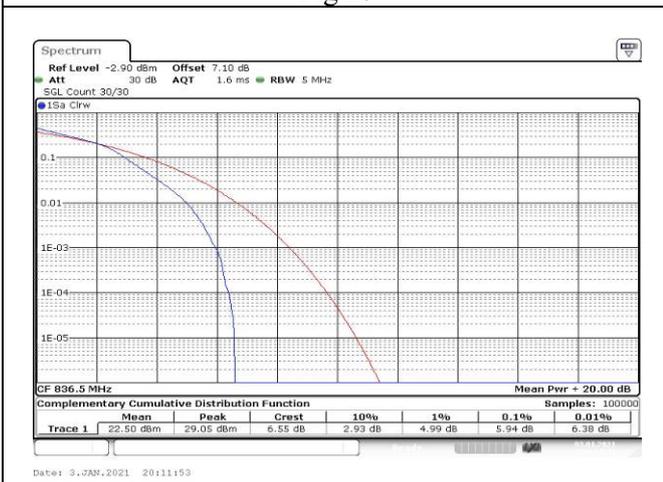


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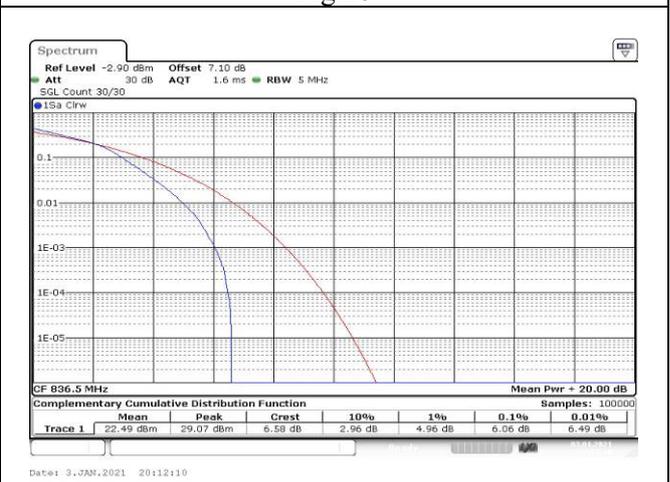


Fig.30