

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

RF Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1850.7	18607	1.4	1	0	23.99	
				1	3	23.94	
				1	5	24.02	
				3	0	24.03	
				3	1	24.01	
				3	3	24.09	
	6	0		23.07			
	1880	18900		1	0	23.93	
				1	3	23.92	
				1	5	23.91	
				3	0	24.02	
				3	1	24.02	
				3	3	24.01	
	6	0		23.01			
	1909.3	19193		1	0	24.16	
				1	3	24.20	
				1	5	24.18	
				3	0	24.24	
				3	1	24.16	
				3	3	24.15	
	16QAM	1850.7		18607	6	0	23.12
					1	0	23.35
					1	3	23.22
					1	5	23.74
3					0	23.00	
3					1	23.01	
3		3		23.27			
6		0		22.32			
1880		18900		1	0	22.82	
				1	3	22.99	
			1	5	22.94		
			3	0	23.26		
			3	1	23.27		
			3	3	23.27		
6		0	22.03				
1909.3		19193	1	0	23.84		
			1	3	23.85		
			1	5	23.80		
			3	0	23.33		
			3	1	23.27		
			3	3	23.33		
6		0	22.38				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	22.32
				1	3	22.43
				1	5	22.39
				3	0	22.30
				3	1	22.29
				3	3	22.28
				6	0	22.28
	1880	18900		1	0	21.91
				1	3	21.88
				1	5	21.91
				3	0	21.90
				3	1	21.91
				3	3	21.91
				6	0	21.91
	1909.3	19193		1	0	22.39
				1	3	22.38
				1	5	22.39
				3	0	22.39
				3	1	22.39
				3	3	22.39
				6	0	22.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	23.79
				1	8	23.90
				1	14	23.90
				8	0	22.99
				8	4	23.05
				8	7	23.05
				15	0	23.03
	1880	18900		1	0	23.91
				1	8	23.87
				1	14	23.87
				8	0	23.01
				8	4	22.99
				8	7	22.99
				15	0	22.89
	1908.5	19185		1	0	24.08
				1	8	24.11
				1	14	24.19
				8	0	23.06
				8	4	23.09
				8	7	23.08
				15	0	23.13
16QAM	1851.5	18615	1	0	23.30	
			1	8	23.30	
			1	14	23.41	
			8	0	22.39	
			8	4	22.47	
			8	7	22.46	
			15	0	22.21	
	1880	18900	1	0	23.31	
			1	8	23.34	
			1	14	23.27	
			8	0	22.12	
			8	4	22.16	
			8	7	22.13	
			15	0	22.09	
	1908.5	19185	1	0	23.02	
			1	8	23.05	
			1	14	23.05	
			8	0	22.46	
			8	4	22.37	
			8	7	22.38	
			15	0	22.27	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	22.21
				1	8	22.22
				1	14	22.21
				8	0	22.20
				8	4	22.22
				8	7	22.22
				15	0	22.22
	1880	18900		1	0	22.09
				1	8	22.08
				1	14	22.09
				8	0	22.09
				8	4	22.07
				8	7	22.07
				15	0	22.06
	1908.5	19185		1	0	22.27
				1	8	22.27
				1	14	22.27
				8	0	22.30
				8	4	22.29
				8	7	22.30
				15	0	22.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1852.5	18625	5	1	0	24.13	
				1	12	23.96	
				1	24	23.95	
				12	0	23.11	
				12	7	23.09	
				12	13	23.08	
				25	0	23.00	
	1880	18900		1	0	22.10	
				1	12	22.13	
				1	24	22.15	
				12	0	20.96	
				12	7	20.93	
				12	13	23.09	
				25	0	22.96	
	1907.5	19175		1	0	23.99	
				1	12	24.03	
				1	24	24.01	
				12	0	23.24	
				12	7	23.11	
				12	13	23.10	
				25	0	23.17	
	16QAM	1852.5		18625	1	0	22.34
					1	12	22.26
					1	24	22.26
12					0	22.20	
12					7	22.17	
12					13	22.18	
25					0	22.27	
1880		18900		1	0	23.21	
				1	12	23.21	
			1	24	23.20		
			12	0	22.06		
			12	7	22.10		
			12	13	22.15		
			25	0	22.11		
1907.5		19175	1	0	22.85		
			1	12	22.99		
			1	24	22.84		
			12	0	22.12		
			12	7	22.15		
			12	13	22.15		
			25	0	22.17		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	22.28
				1	12	22.28
				1	24	22.29
				12	0	22.29
				12	7	22.29
				12	13	22.29
				25	0	22.28
	1880	18900		1	0	22.15
				1	12	22.08
				1	24	22.12
				12	0	22.08
				12	7	22.17
				12	13	22.05
				25	0	22.14
	1907.5	19175		1	0	22.17
				1	12	22.18
				1	24	22.18
				12	0	22.18
				12	7	22.29
				12	13	22.29
				25	0	22.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	23.95
				1	25	23.93
				1	49	23.92
				25	0	23.10
				25	12	23.05
				25	25	23.05
				50	0	23.04
	1880	18900		1	0	24.03
				1	25	24.03
				1	49	24.03
				25	0	22.96
				25	12	22.95
				25	25	22.95
				50	0	23.03
	1905	19150		1	0	24.02
				1	25	24.06
				1	49	24.15
				25	0	23.15
				25	12	23.17
				25	25	23.16
				50	0	23.10
16QAM	1855	18650	1	0	23.54	
			1	25	23.47	
			1	49	23.48	
			25	0	22.14	
			25	12	22.18	
			25	25	22.15	
			50	0	22.18	
	1880	18900	1	0	23.15	
			1	25	23.21	
			1	49	23.27	
			25	0	22.21	
			25	12	22.26	
			25	25	22.27	
			50	0	22.18	
	1905	19150	1	0	22.94	
			1	25	22.78	
			1	49	22.69	
			25	0	22.46	
			25	12	22.39	
			25	25	22.39	
			50	0	22.27	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	22.19
				1	25	22.19
				1	49	22.18
				25	0	22.17
				25	12	22.17
				25	25	22.16
				50	0	22.16
	1880	18900		1	0	22.18
				1	25	22.19
				1	49	22.19
				25	0	22.19
				25	12	22.19
				25	25	22.19
				50	0	22.18
	1905	19150		1	0	22.28
				1	25	22.28
				1	49	22.29
				25	0	22.29
				25	12	22.29
				25	25	22.29
				50	0	22.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	23.91
				1	37	23.86
				1	74	23.86
				36	0	22.94
				36	29	23.07
				36	30	23.06
				75	0	22.96
	1880	18900		1	0	23.97
				1	37	24.03
				1	74	23.97
				36	0	22.93
				36	29	22.98
				36	30	22.97
				75	0	23.01
	1902.5	19125		1	0	23.87
				1	37	23.95
				1	74	23.93
				36	0	23.03
				36	29	23.17
				36	30	23.15
				75	0	23.00
16QAM	1857.5	18675		1	0	23.32
				1	37	23.29
				1	74	23.29
				36	0	22.19
				36	29	22.14
				36	30	22.15
				75	0	22.15
	1880	18900	1	0	23.71	
			1	37	23.83	
			1	74	23.83	
			36	0	22.11	
			36	29	22.13	
			36	30	22.14	
			75	0	22.06	
	1902.5	19125	1	0	23.55	
			1	37	23.65	
			1	74	23.44	
			36	0	22.23	
			36	29	22.31	
			36	30	22.21	
			75	0	22.13	

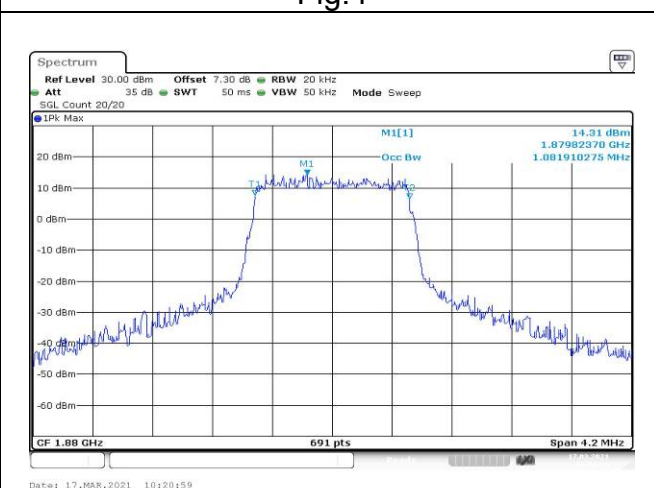
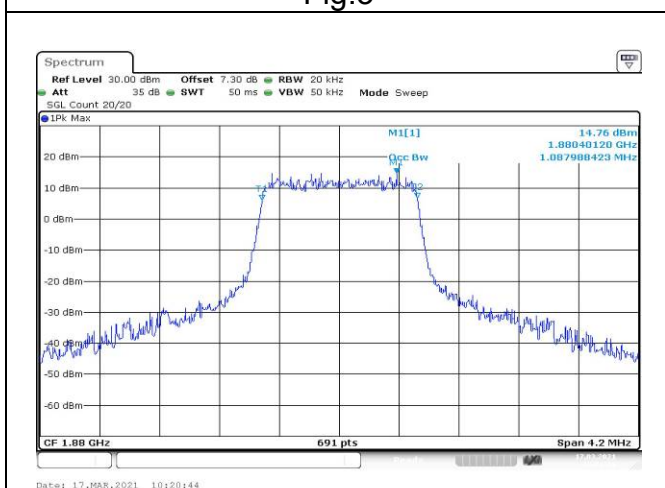
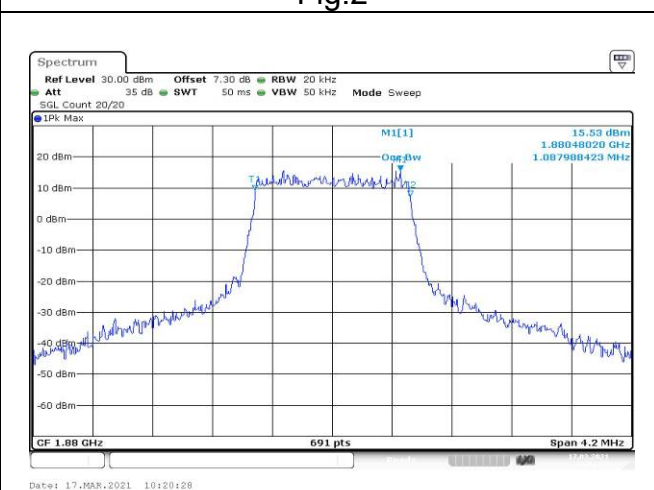
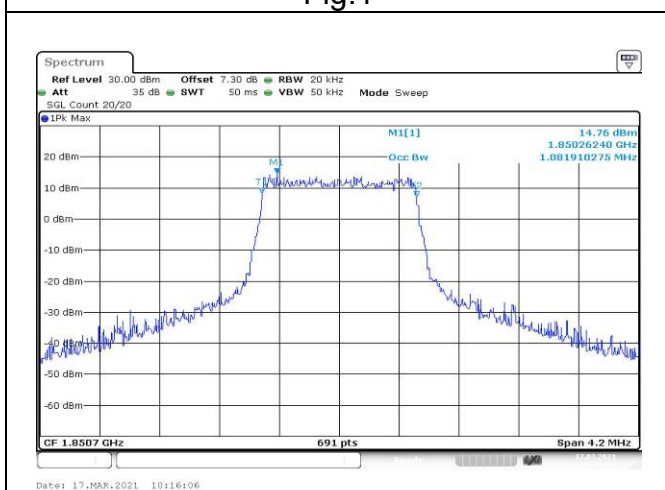
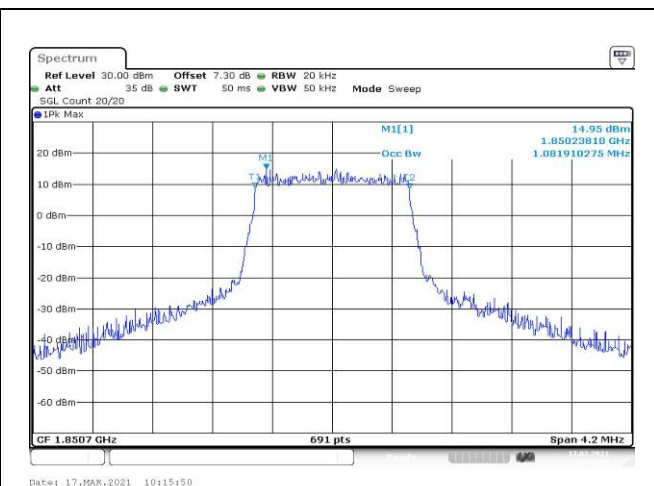
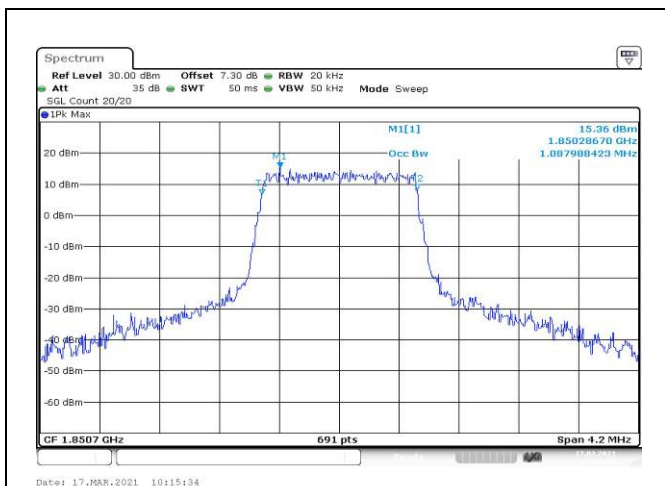
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	22.16
				1	37	22.15
				1	74	22.16
				36	0	22.16
				36	29	22.17
				36	30	22.16
				75	0	22.16
	1880	18900		1	0	22.05
				1	37	22.07
				1	74	22.08
				36	0	22.07
				36	29	22.07
				36	30	22.06
				75	0	22.06
	1902.5	19125		1	0	22.13
				1	37	22.13
				1	74	22.14
				36	0	22.14
				36	29	22.14
				36	30	22.14
				75	0	22.25

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	24.09
				1	49	24.02
				1	99	24.00
				50	0	23.09
				50	24	22.92
				50	50	22.98
				100	0	22.96
	1880	18900		1	0	24.08
				1	49	24.14
				1	99	24.13
				50	0	23.05
				50	24	23.10
				50	50	23.11
				100	0	23.07
	1900	19100		1	0	24.02
				1	49	24.10
				1	99	24.14
				50	0	23.08
				50	24	23.05
				50	50	23.04
				100	0	23.18
16QAM	1860	18700		1	0	23.31
				1	49	23.23
				1	99	23.16
				50	0	22.23
				50	24	22.15
				50	50	22.16
				100	0	22.03
	1880	18900		1	0	23.04
				1	49	23.20
				1	99	23.08
				50	0	22.11
				50	24	22.20
				50	50	22.21
				100	0	22.17
	1900	19100		1	0	23.81
				1	49	23.92
				1	99	23.92
				50	0	22.14
				50	24	22.23
				50	50	22.19
				100	0	22.21

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	22.04
				1	49	22.04
				1	99	22.04
				50	0	22.06
				50	24	22.05
				50	50	22.05
				100	0	22.05
	1880	18900		1	0	22.17
				1	49	22.17
				1	99	22.17
				50	0	22.03
				50	24	22.02
				50	50	22.02
				100	0	22.02
	1900	19100		1	0	22.33
				1	49	22.33
				1	99	22.33
				50	0	22.22
				50	24	22.22
				50	50	22.22
				100	0	22.22

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.088	Fig.1	1.082	Fig.2	1.082	Fig.3
	1880	18900		6	0	1.088	Fig.4	1.088	Fig.5	1.082	Fig.6
	1909.3	19193		6	0	1.082	Fig.7	1.094	Fig.8	1.094	Fig.9
	1851.5	18615	3	15	0	2.696	Fig.10	2.683	Fig.11	2.683	Fig.12
	1880	18900		15	0	2.696	Fig.13	2.696	Fig.14	2.683	Fig.15
	1908.5	19185		15	0	2.709	Fig.16	2.696	Fig.17	2.696	Fig.18
	1852.5	18625	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	1880	18900		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	1907.5	19175		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1855	18650	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	1880	18900		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	1905	19150		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36
	1857.5	18675	15	75	0	13.480	Fig.37	13.415	Fig.38	13.415	Fig.39
	1880	18900		75	0	13.415	Fig.40	13.415	Fig.41	13.415	Fig.42
	1902.5	19125		75	0	13.415	Fig.43	13.415	Fig.44	13.415	Fig.45
	1860	18700	20	100	0	17.887	Fig.46	17.887	Fig.47	17.887	Fig.48
	1880	18900		100	0	17.887	Fig.49	17.887	Fig.50	17.887	Fig.51
	1900	19100		100	0	17.887	Fig.52	17.887	Fig.53	17.887	Fig.54



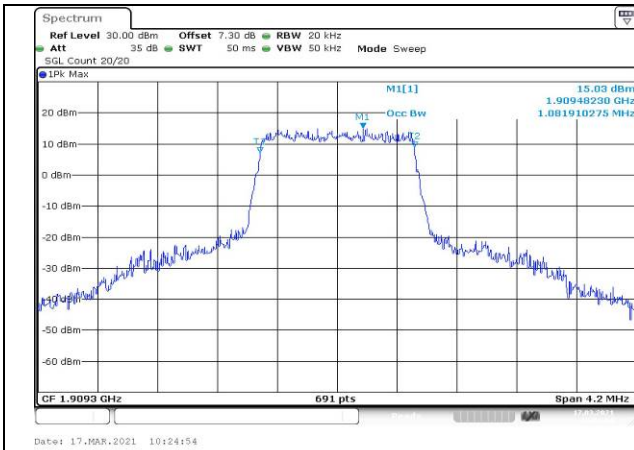


Fig.7

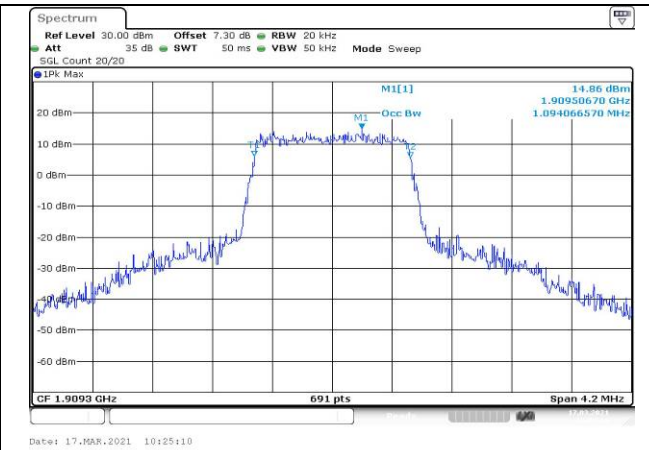


Fig.8

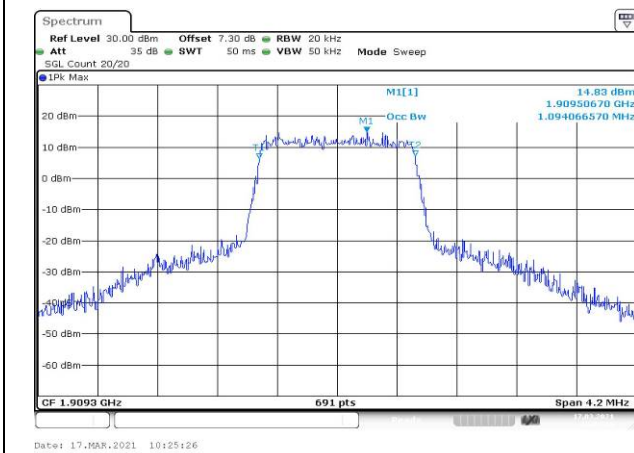


Fig.9

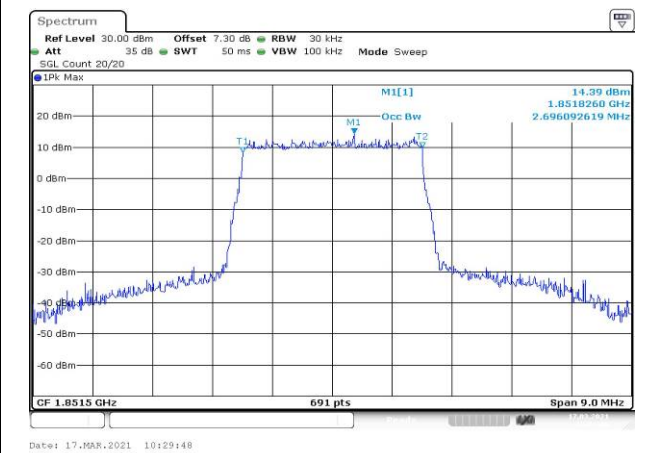


Fig.10

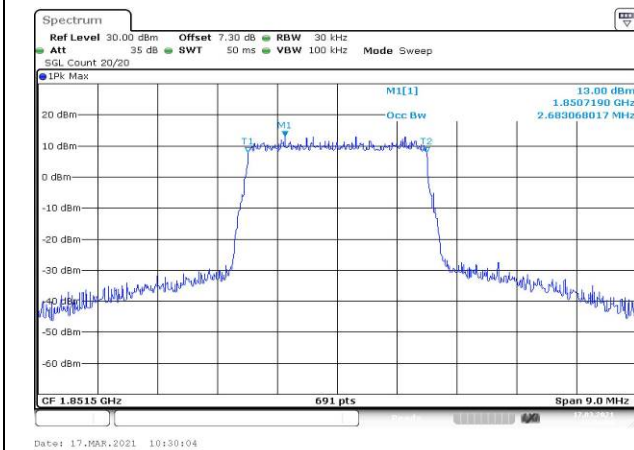


Fig.11

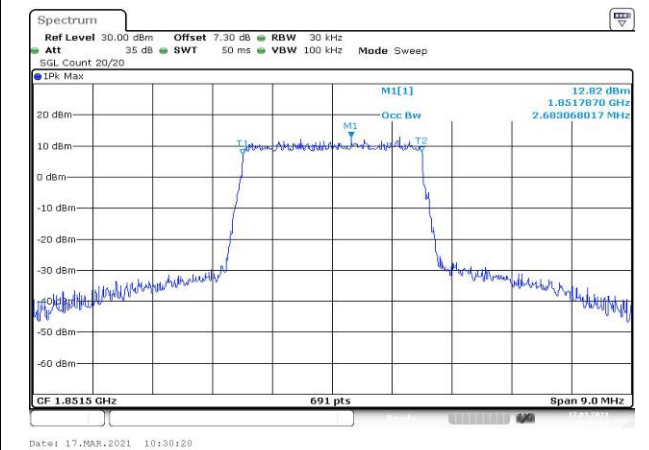


Fig.12

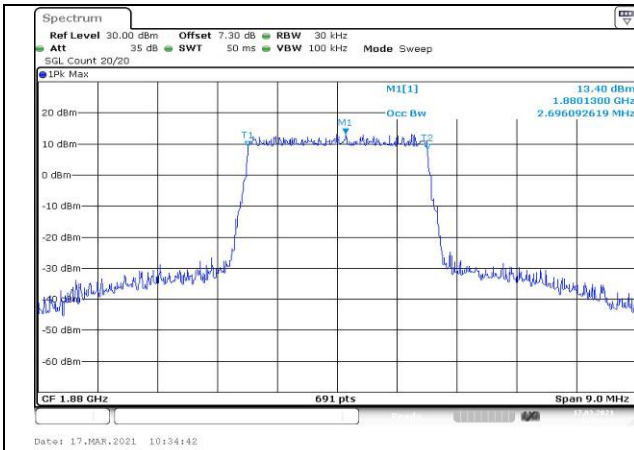


Fig.13

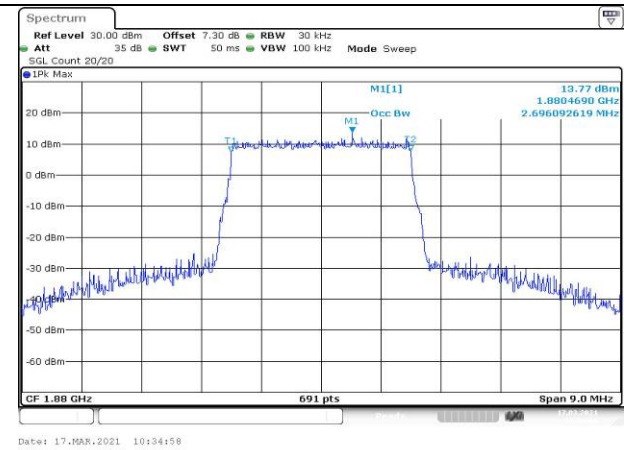


Fig.14

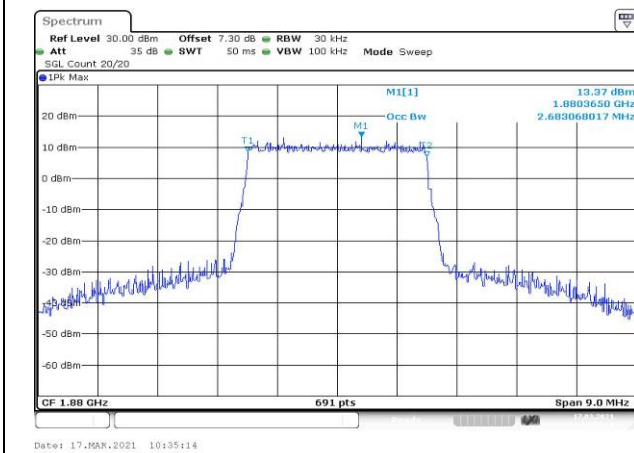


Fig.15

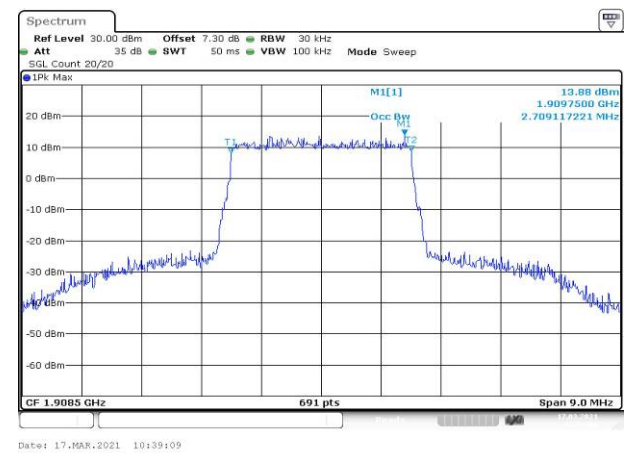


Fig.16

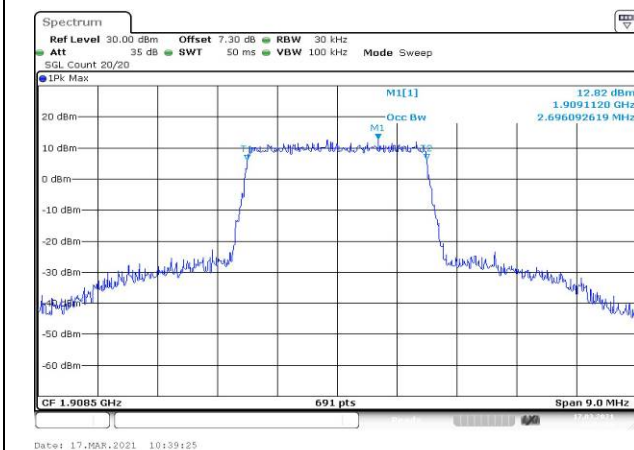


Fig.17

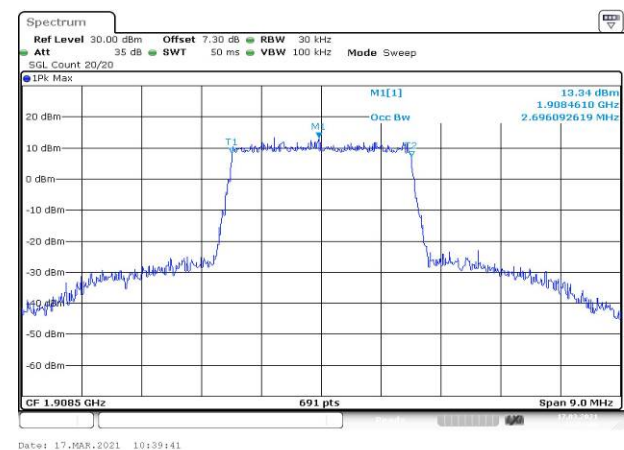


Fig.18

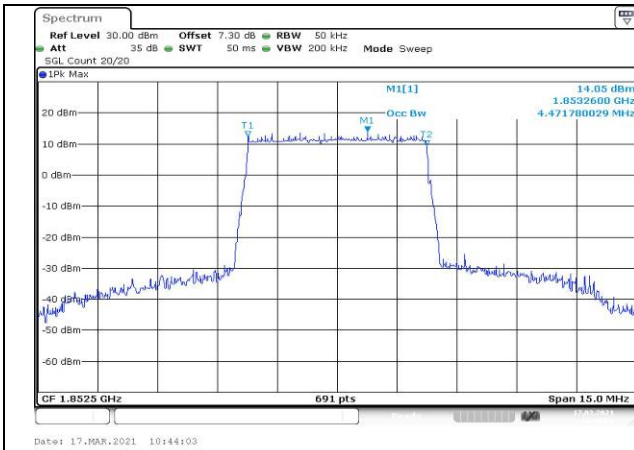


Fig.19

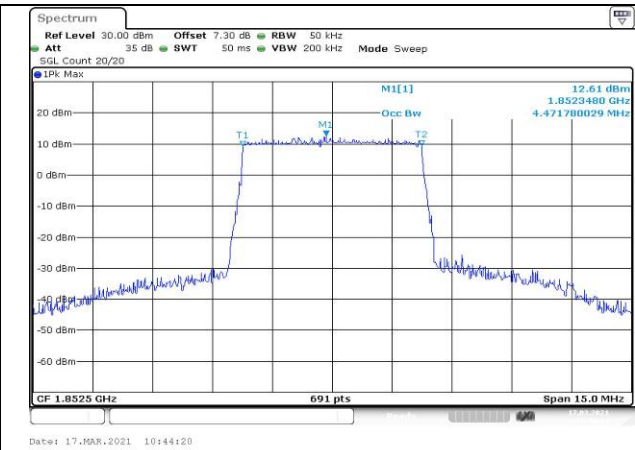


Fig.20

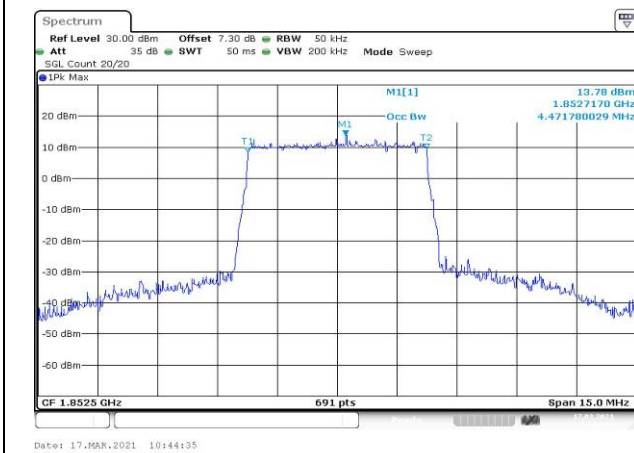


Fig.21

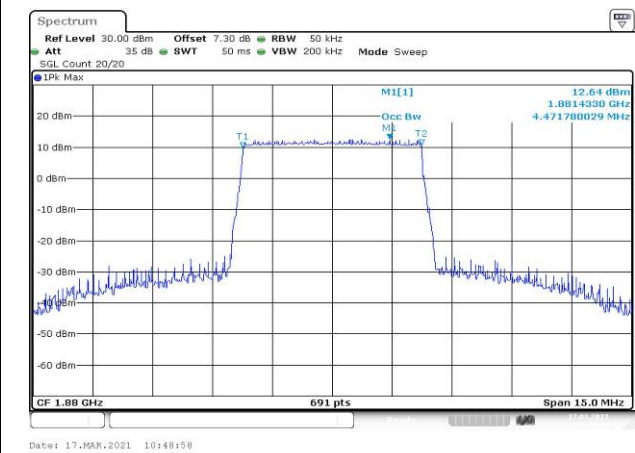


Fig.22

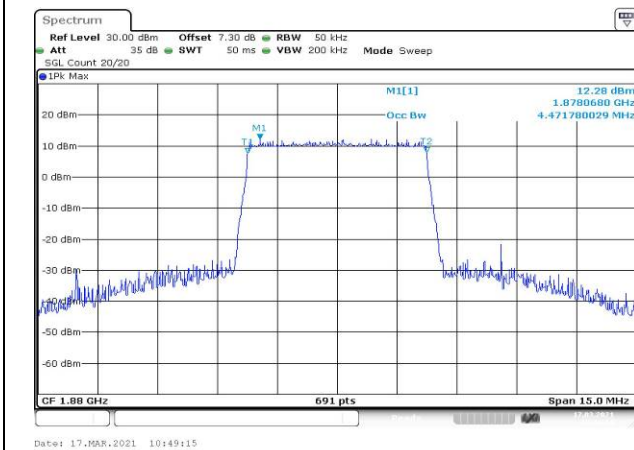


Fig.23

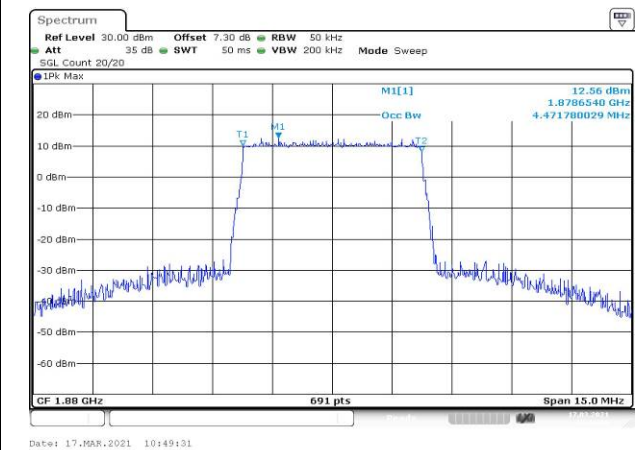


Fig.24

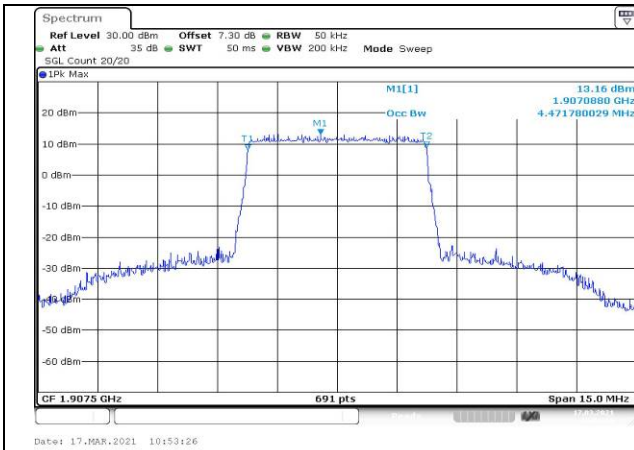


Fig.25

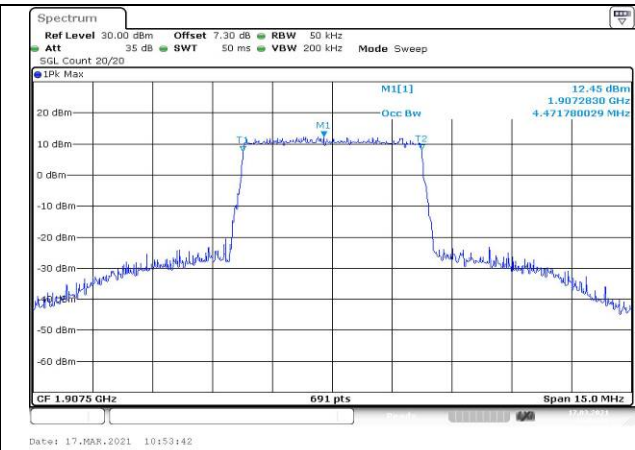


Fig.26

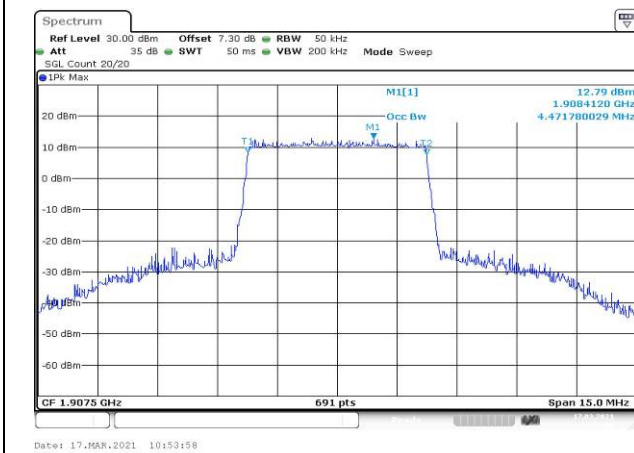


Fig.27

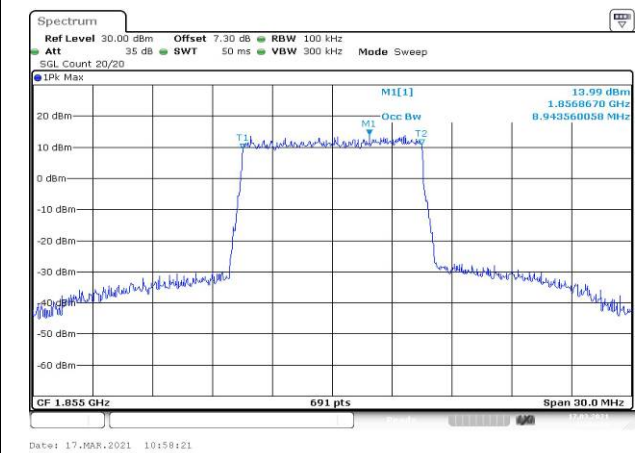


Fig.28

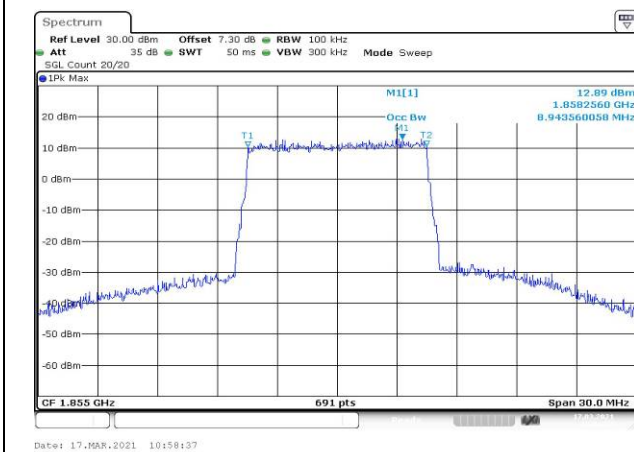


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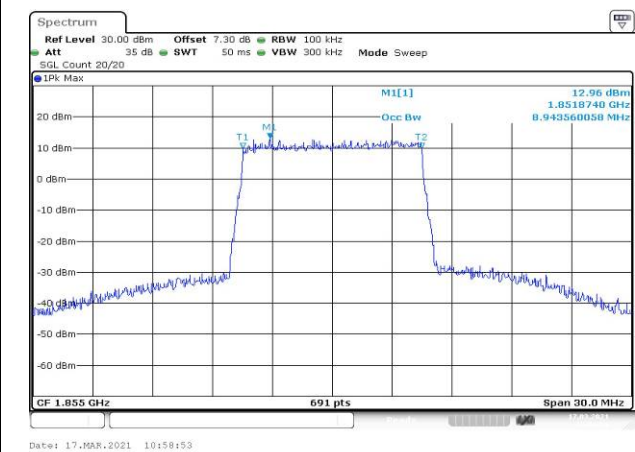
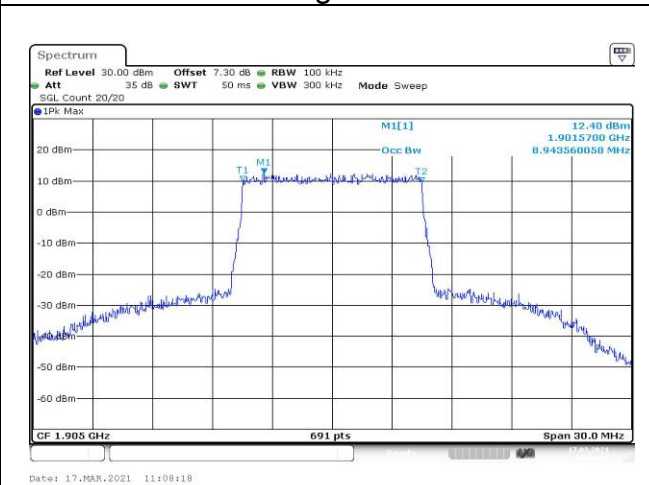
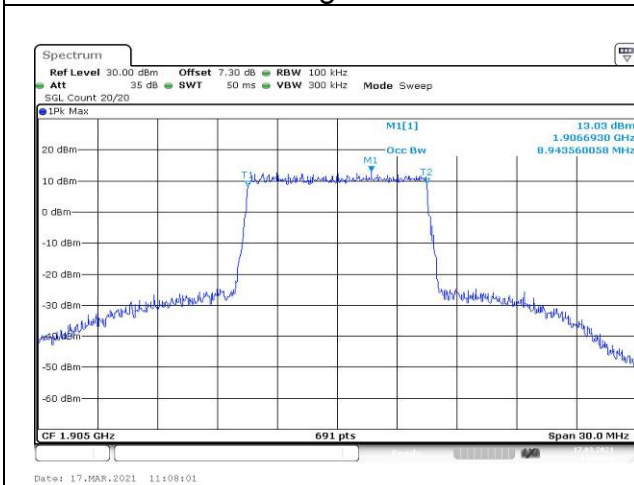
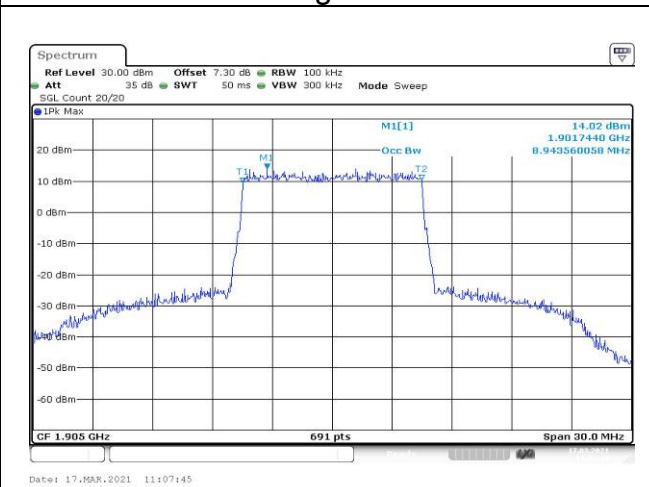
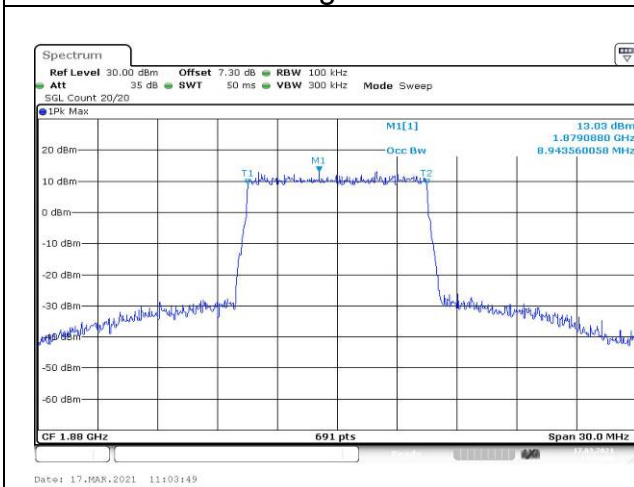
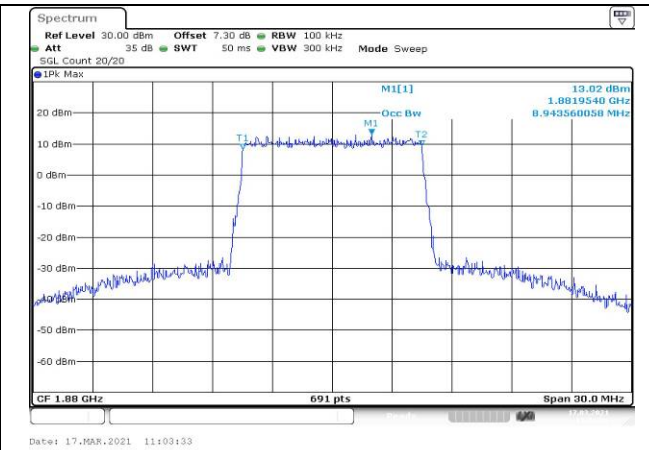
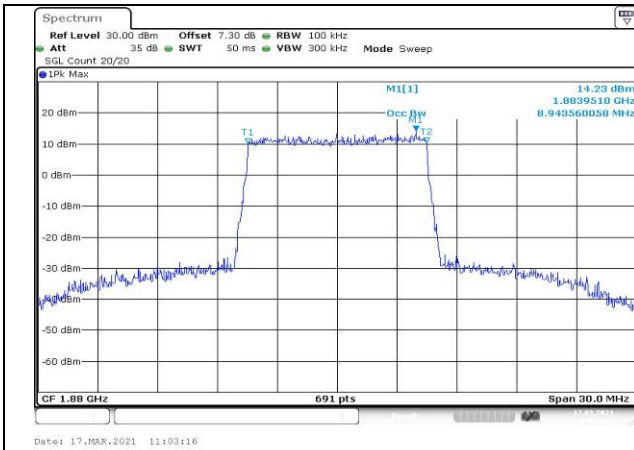


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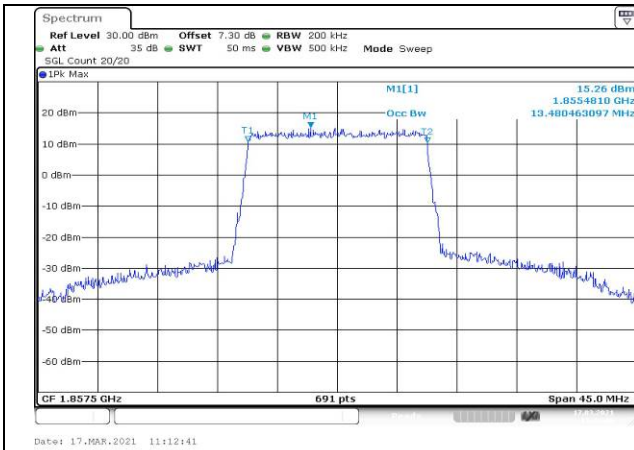


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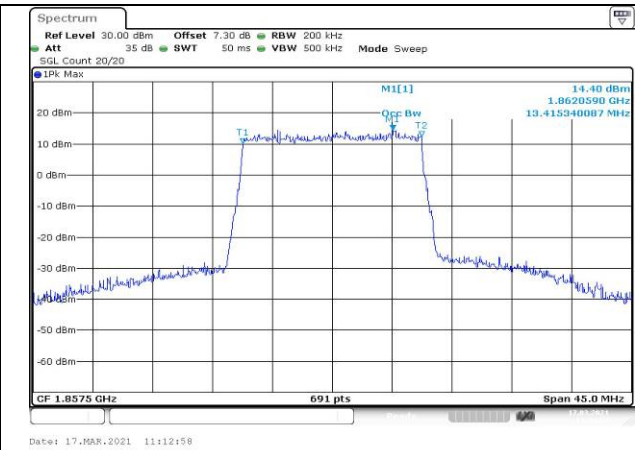


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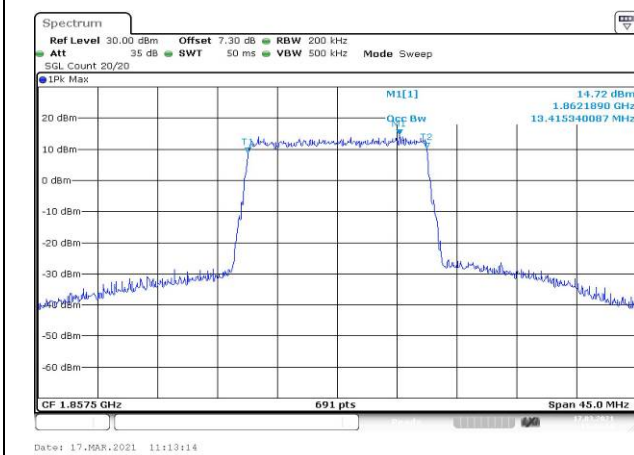


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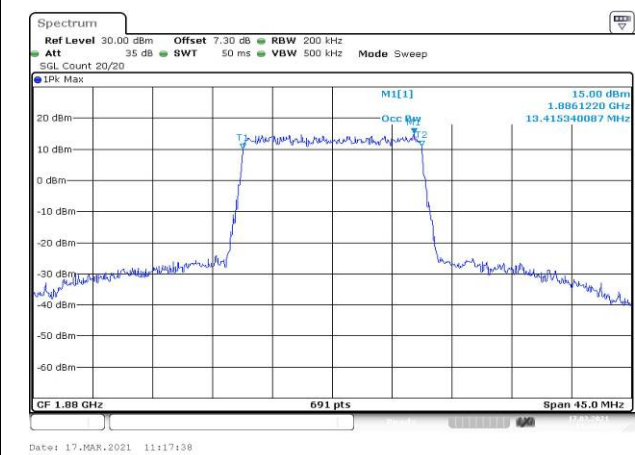


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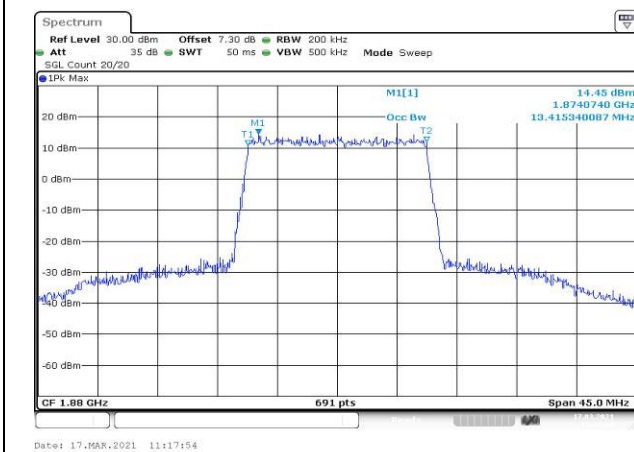


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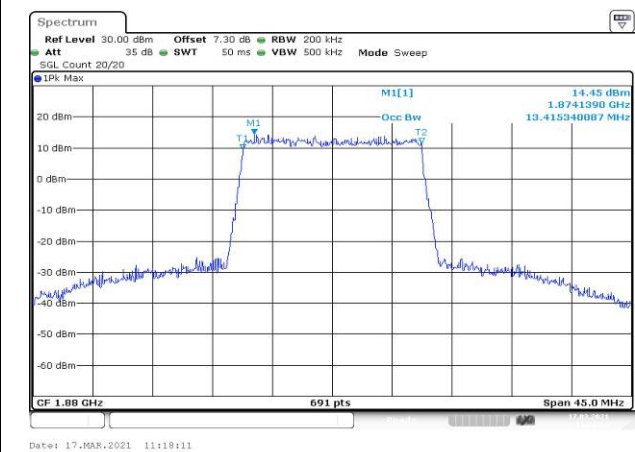


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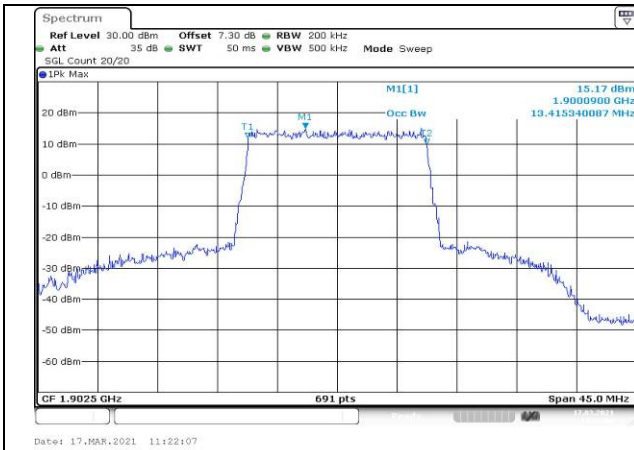


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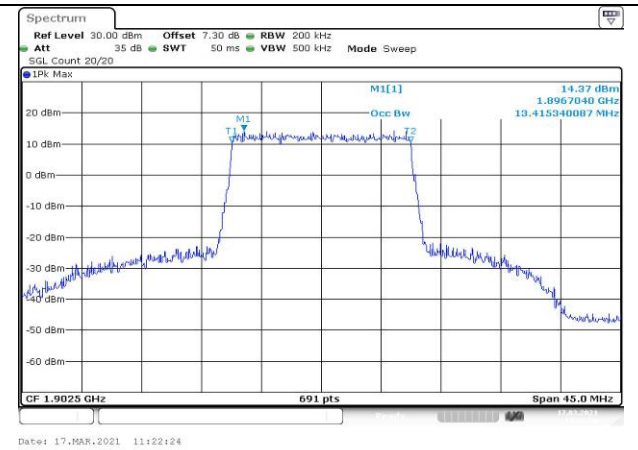


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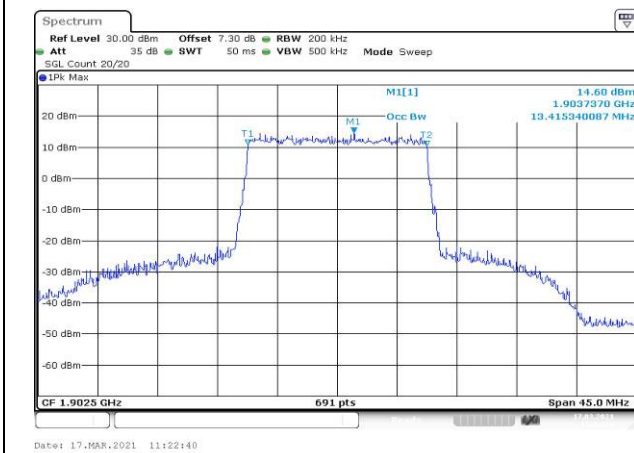


Fig.45

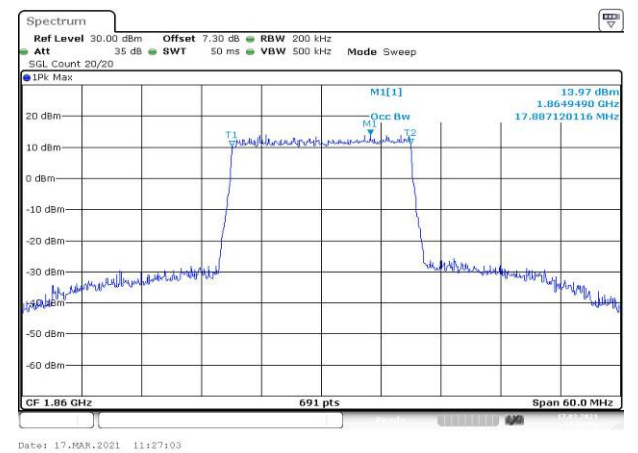


Fig.46

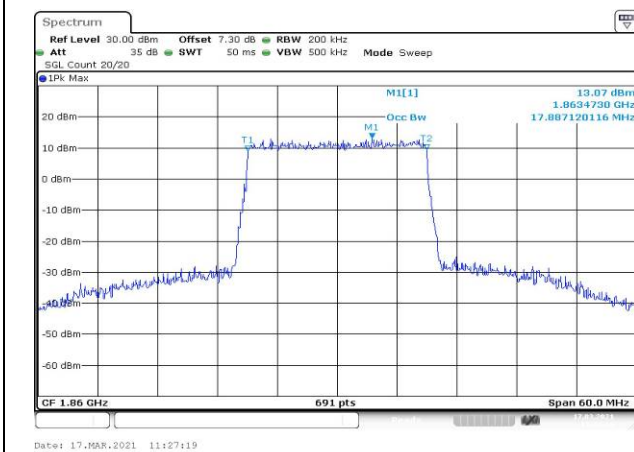


Fig.47

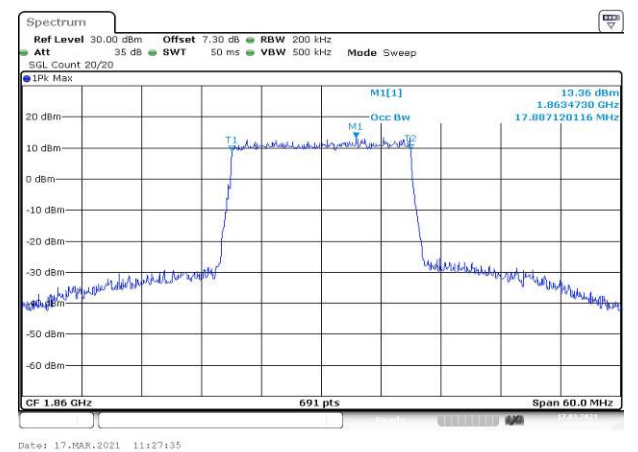
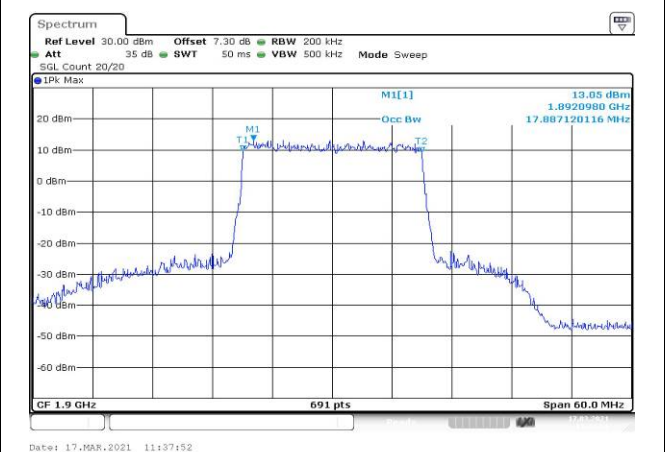
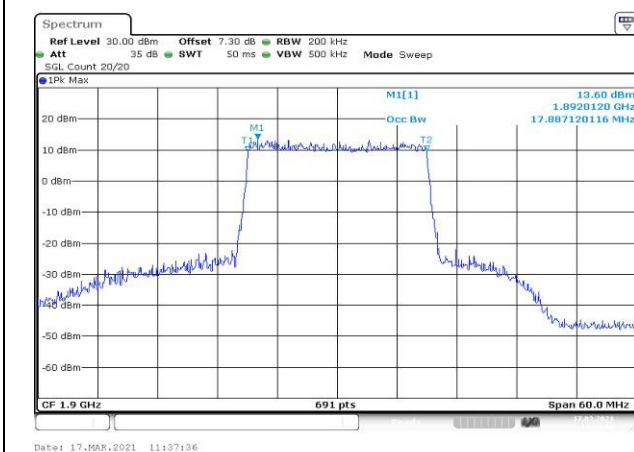
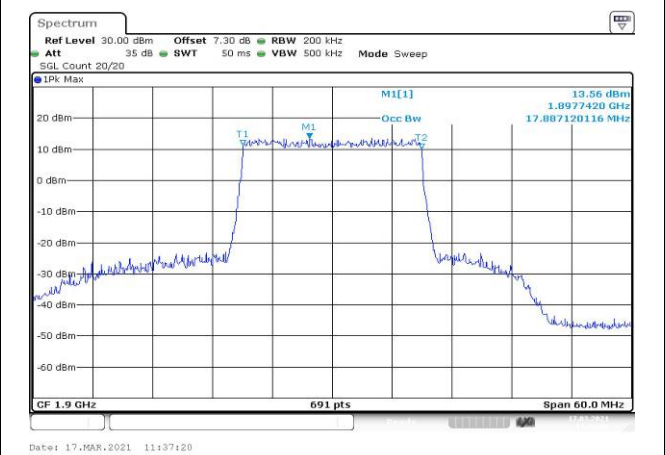
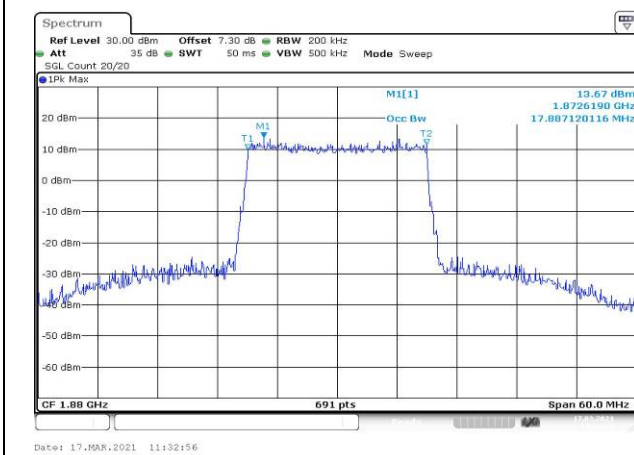
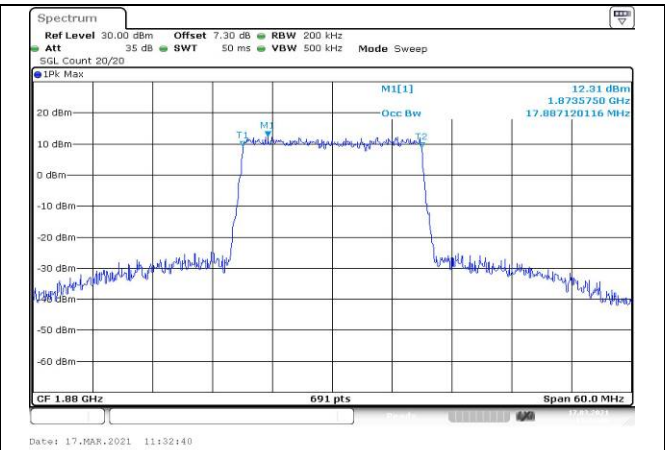
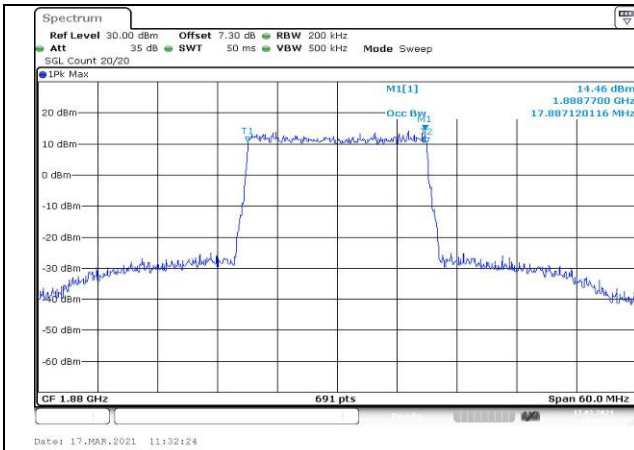


Fig.48



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	
2	1850.7	18607	1.4	6	0	1.228	Fig.1	1.234	Fig.2	1.234	Fig.3
	1880	18900		6	0	1.234	Fig.4	1.246	Fig.5	1.240	Fig.6
	1909.3	19193		6	0	1.222	Fig.7	1.234	Fig.8	1.240	Fig.9
	1851.5	18615	3	15	0	2.996	Fig.10	2.996	Fig.11	2.983	Fig.12
	1880	18900		15	0	2.970	Fig.13	2.970	Fig.14	2.996	Fig.15
	1908.5	19185		15	0	2.970	Fig.16	2.944	Fig.17	2.996	Fig.18
	1852.5	18625	5	25	0	4.884	Fig.19	4.906	Fig.20	4.928	Fig.21
	1880	18900		25	0	4.906	Fig.22	4.906	Fig.23	4.906	Fig.24
	1907.5	19175		25	0	4.884	Fig.25	4.906	Fig.26	4.928	Fig.27
	1855	18650	10	50	0	9.725	Fig.28	9.725	Fig.29	9.812	Fig.30
	1880	18900		50	0	9.725	Fig.31	9.682	Fig.32	9.725	Fig.33
	1905	19150		50	0	9.725	Fig.34	9.768	Fig.35	9.768	Fig.36
	1857.5	18675	15	75	0	14.783	Fig.37	14.718	Fig.38	14.718	Fig.39
	1880	18900		75	0	14.718	Fig.40	14.653	Fig.41	14.718	Fig.42
	1902.5	19125		75	0	14.718	Fig.43	14.653	Fig.44	14.588	Fig.45
	1860	18700	20	100	0	19.276	Fig.46	19.363	Fig.47	19.450	Fig.48
	1880	18900		100	0	19.363	Fig.49	19.363	Fig.50	19.363	Fig.51
	1900	19100		100	0	19.450	Fig.52	19.276	Fig.53	19.363	Fig.54

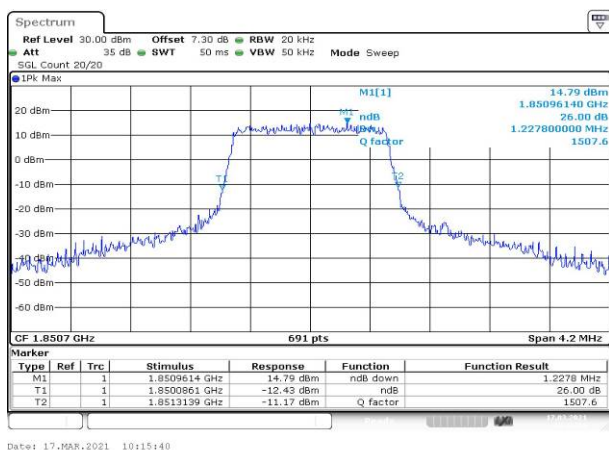


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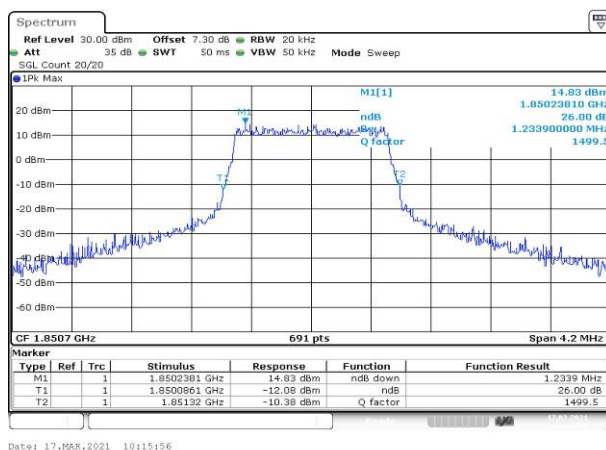


Fig.2

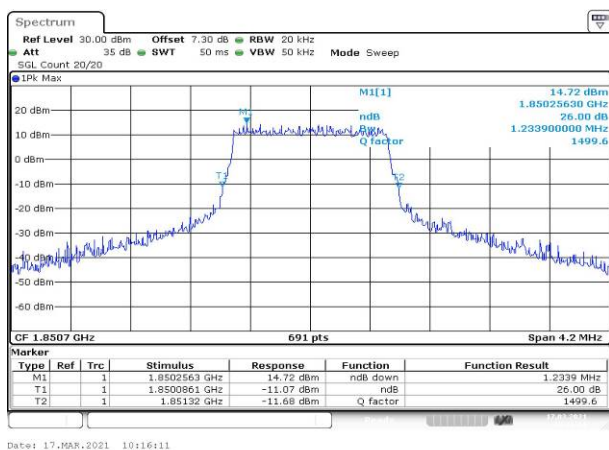


Fig.3

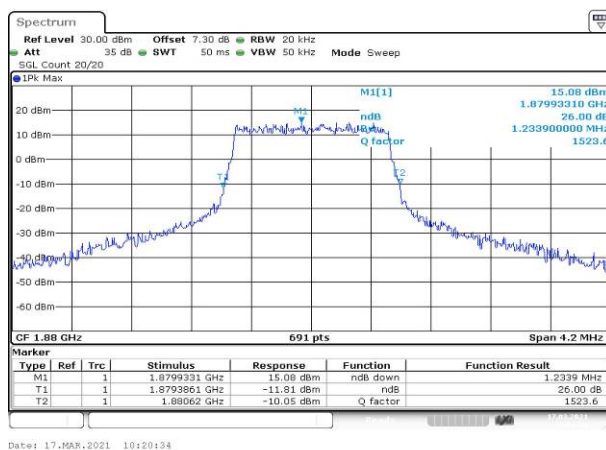


Fig.4

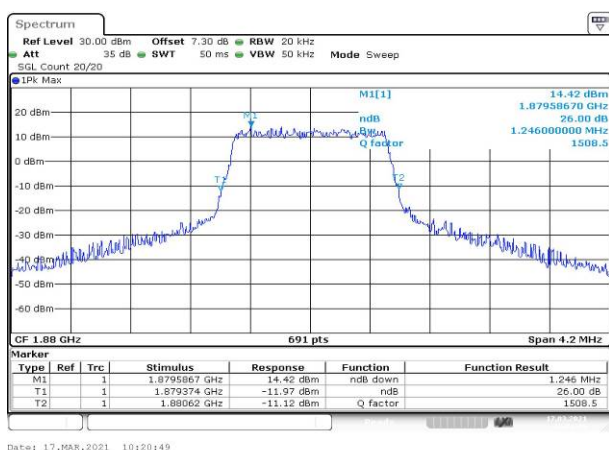


Fig.5

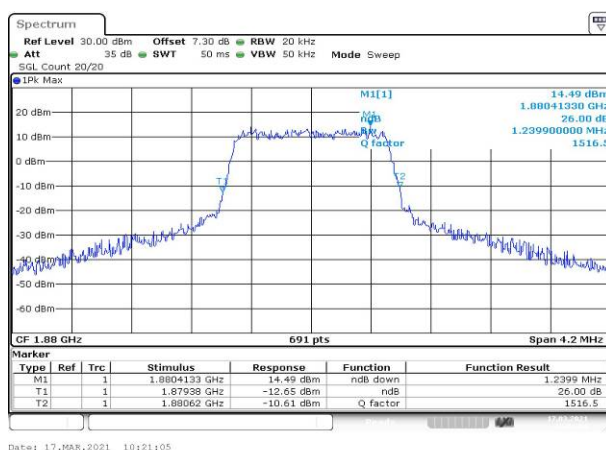


Fig.6

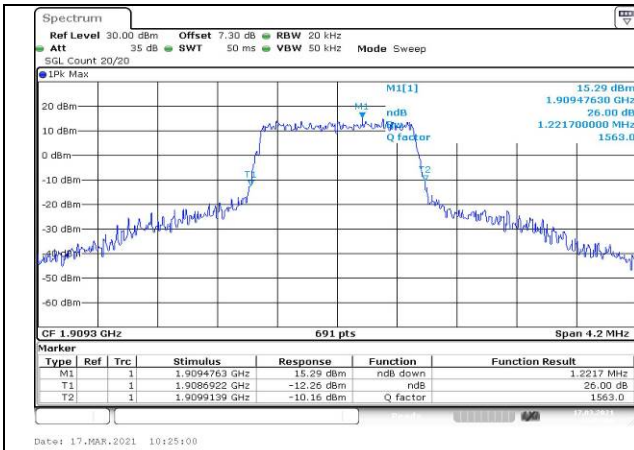


Fig.7

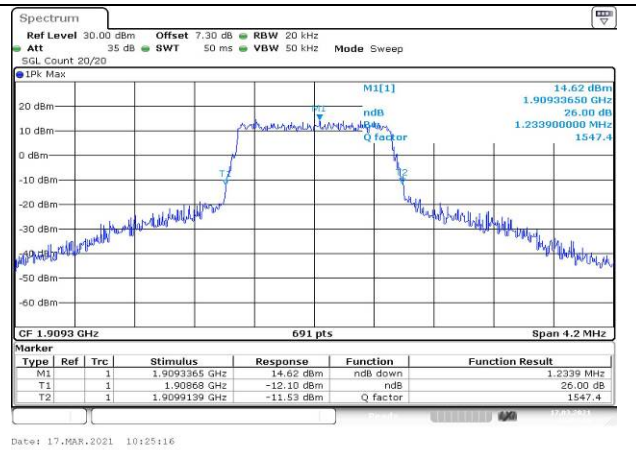


Fig.8

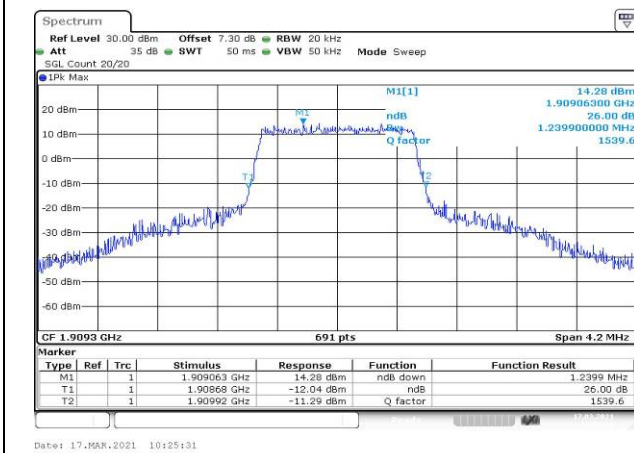


Fig.9

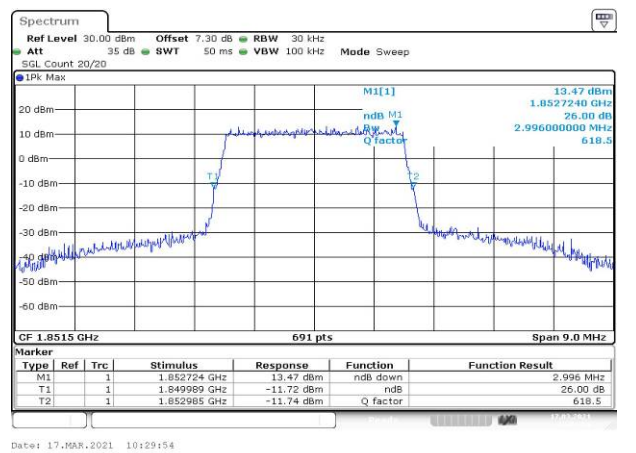


Fig.10

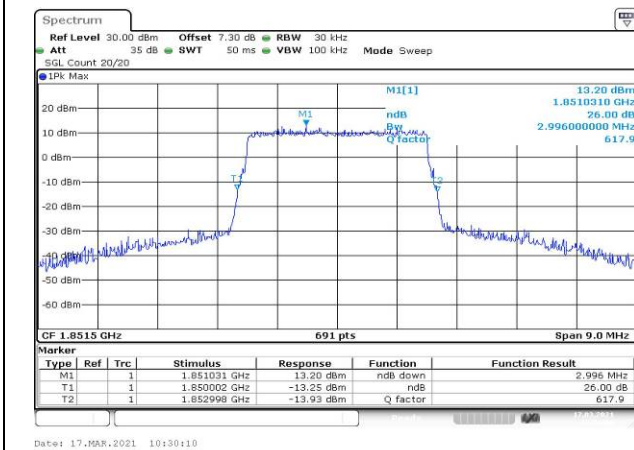


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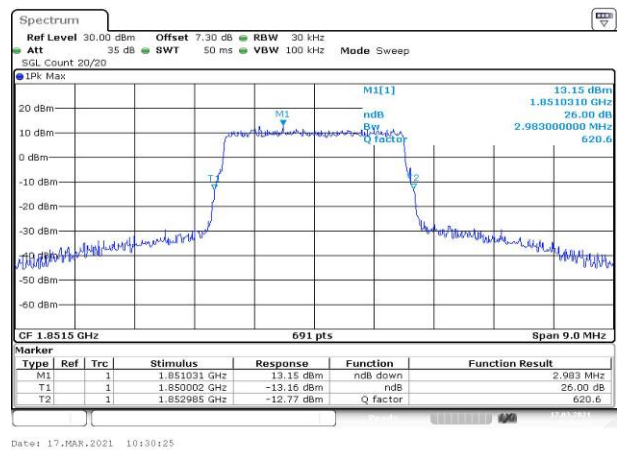


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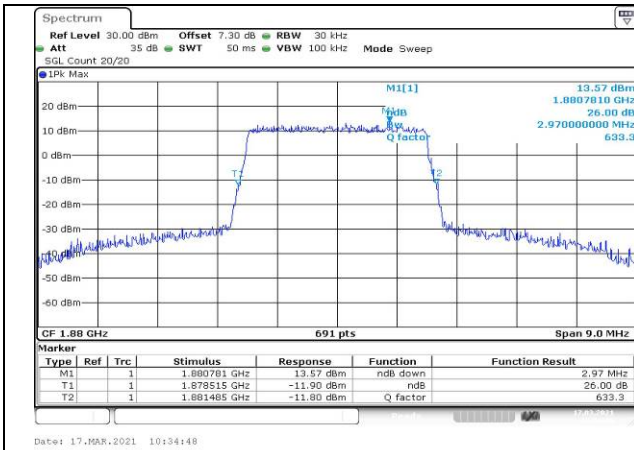


Fig.13

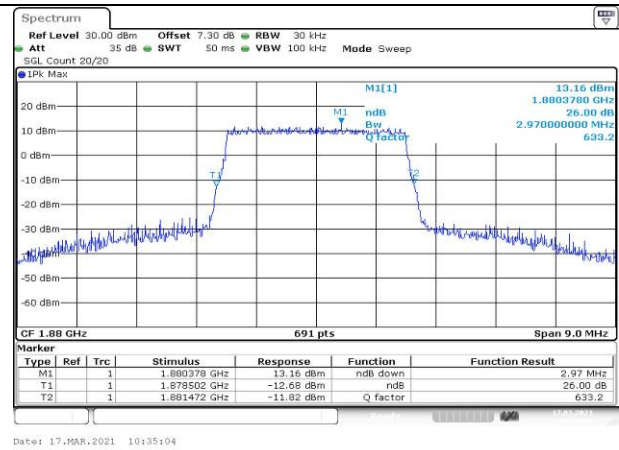


Fig.14

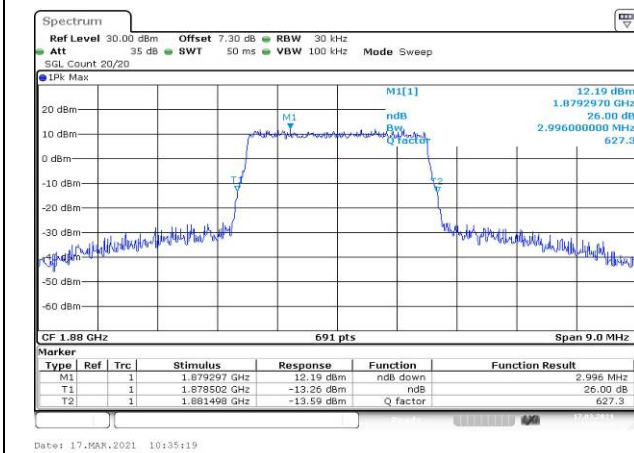


Fig.15

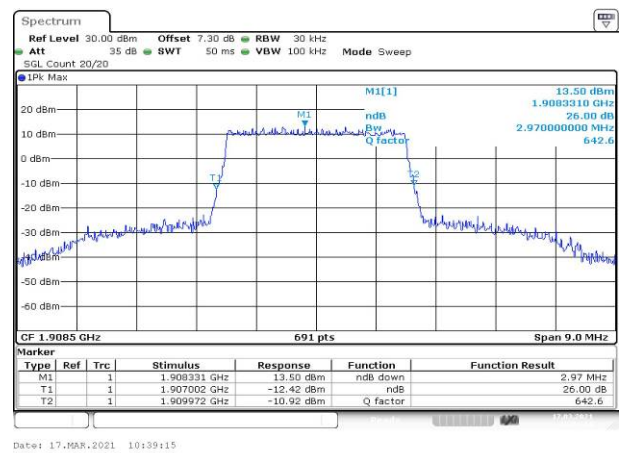


Fig.16

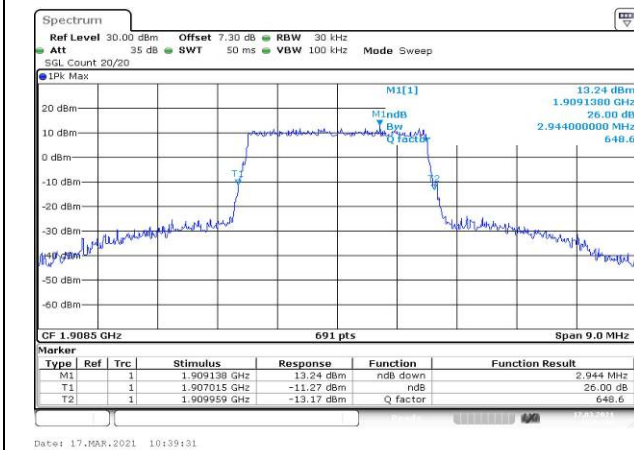


Fig.17

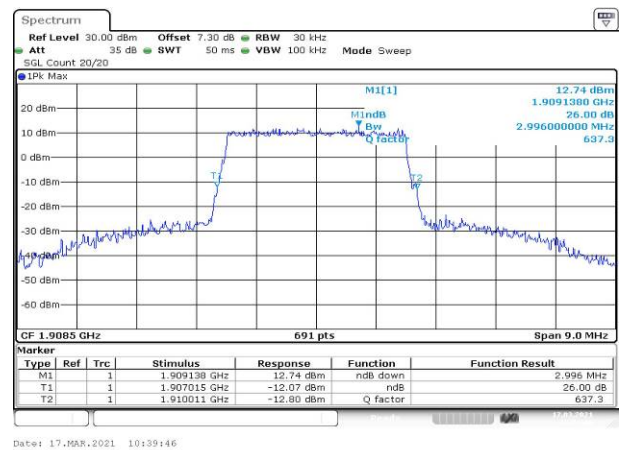


Fig.18

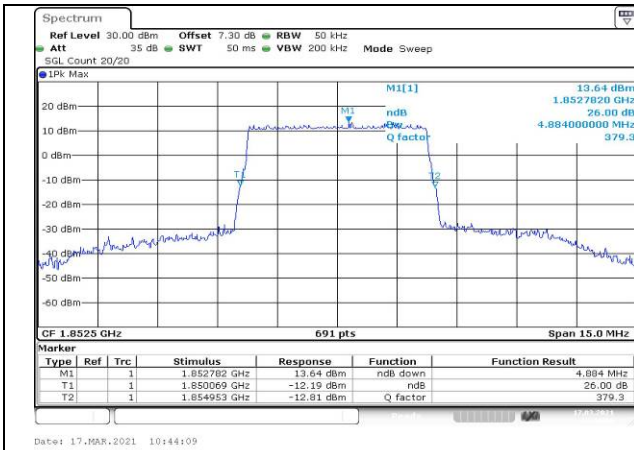


Fig.19

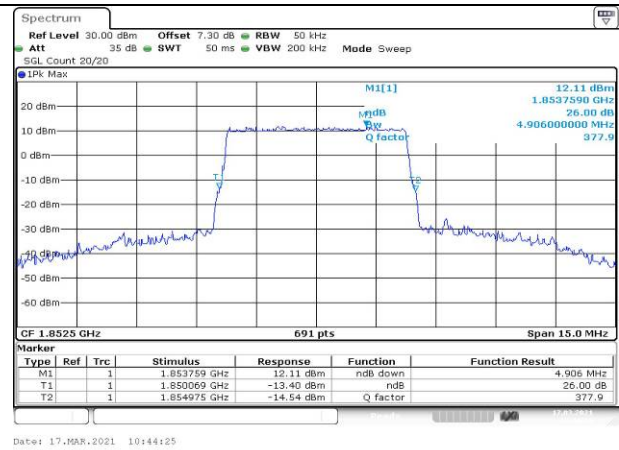


Fig.20

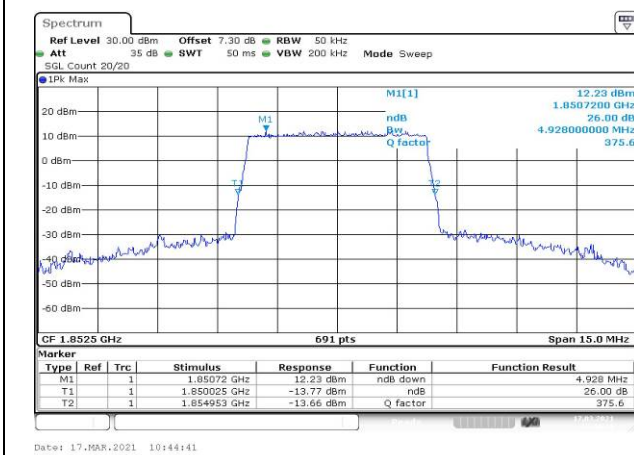


Fig.21

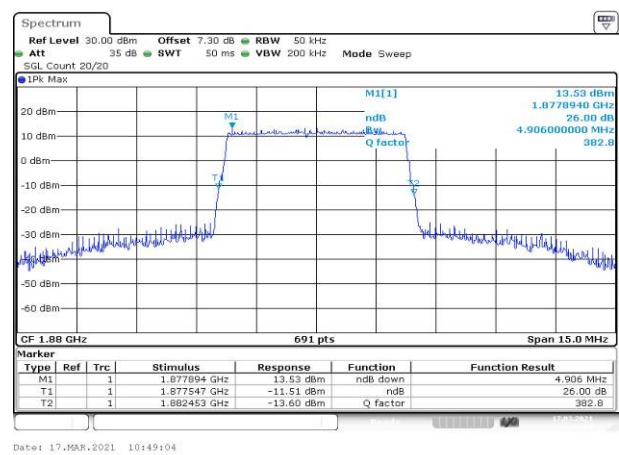


Fig.22

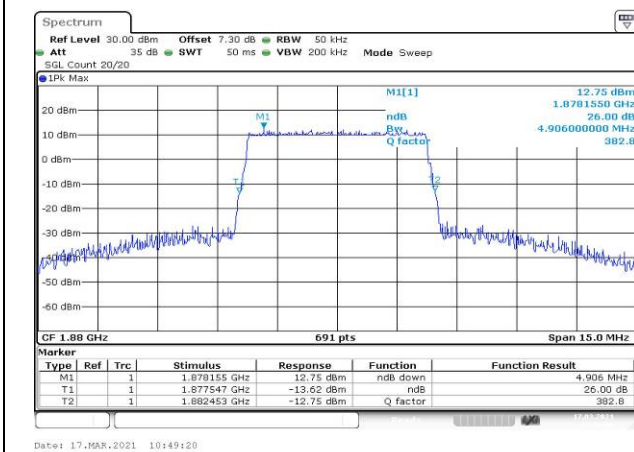


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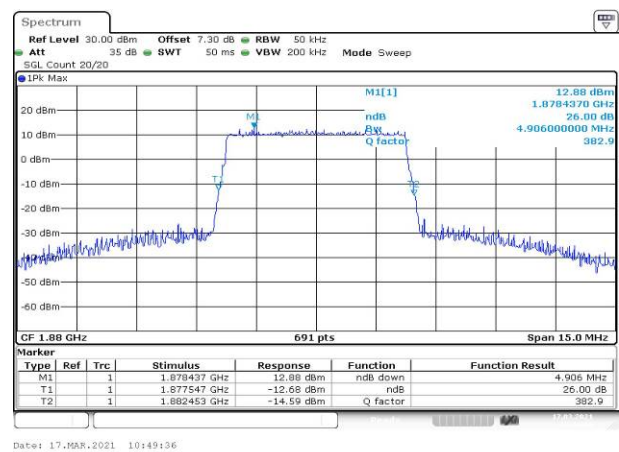


Fig.24

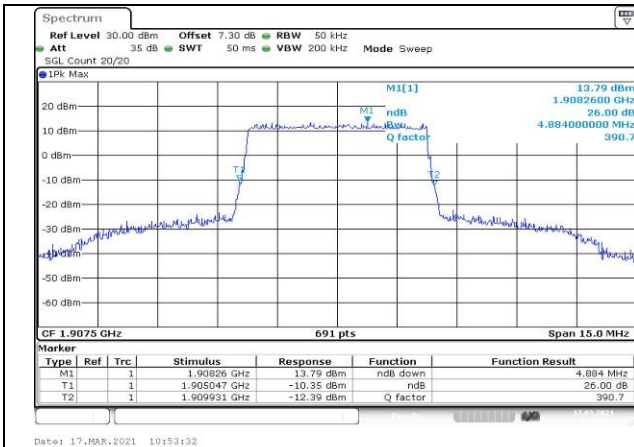


Fig.25

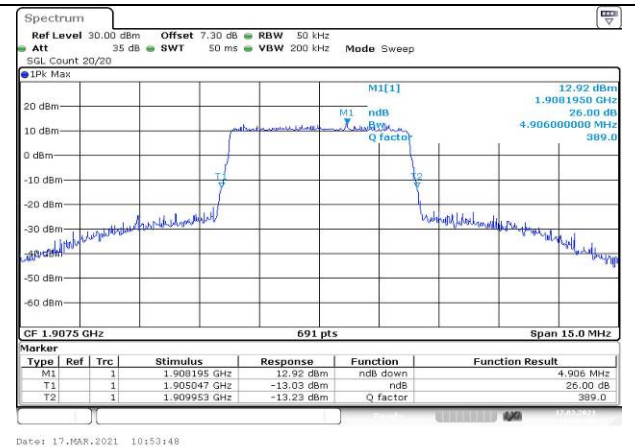


Fig.26

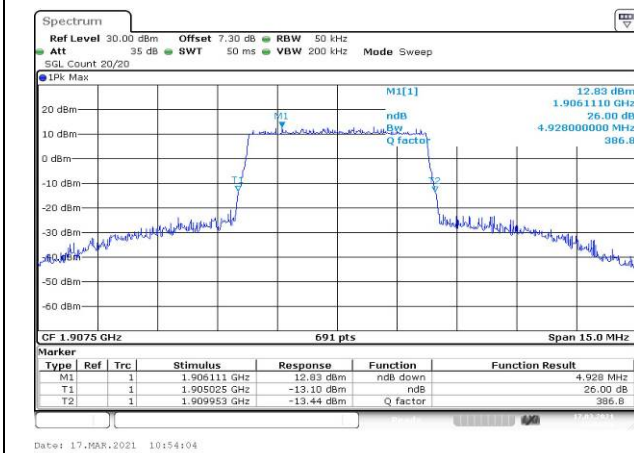


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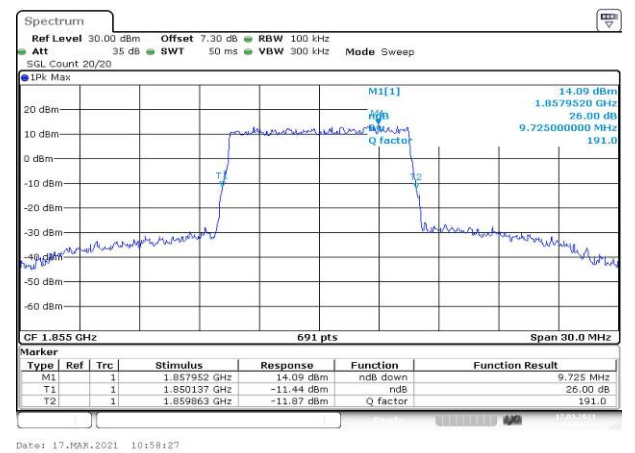


Fig.28

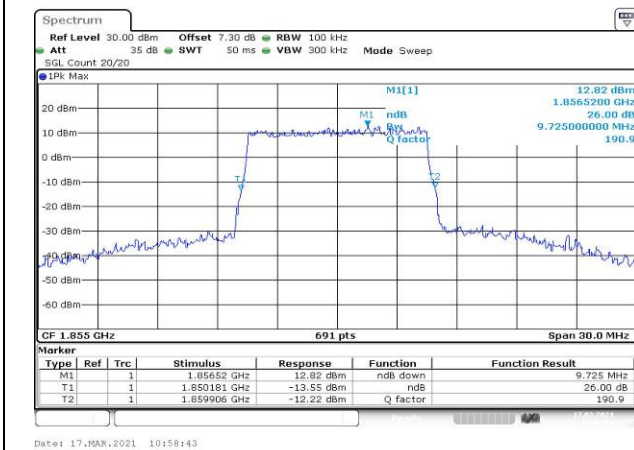


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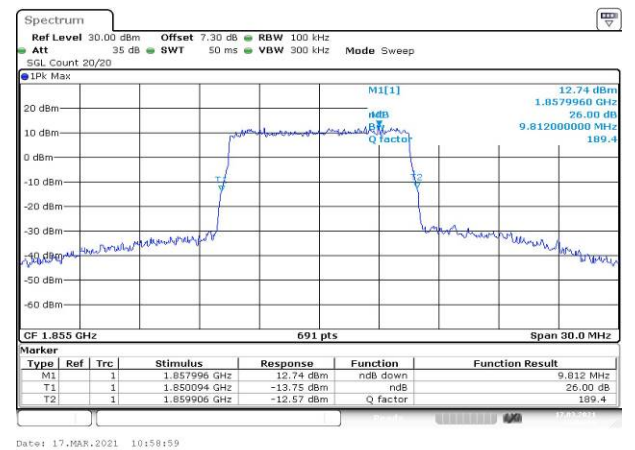


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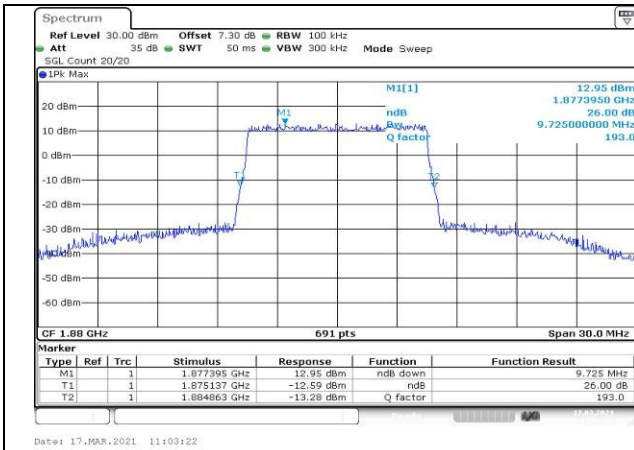


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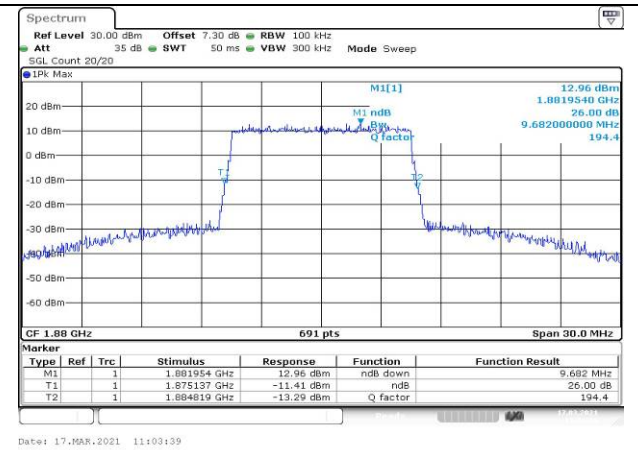


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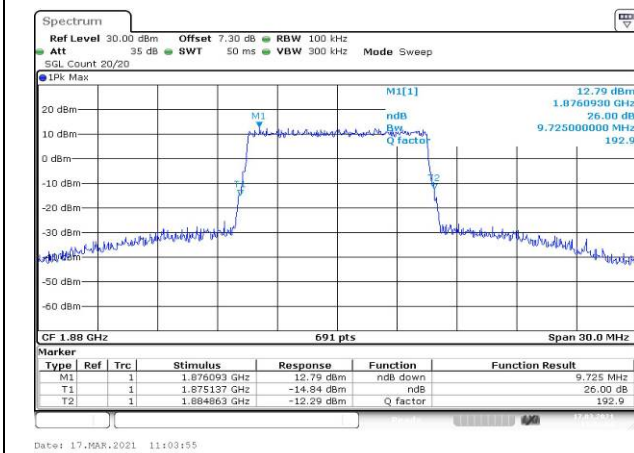


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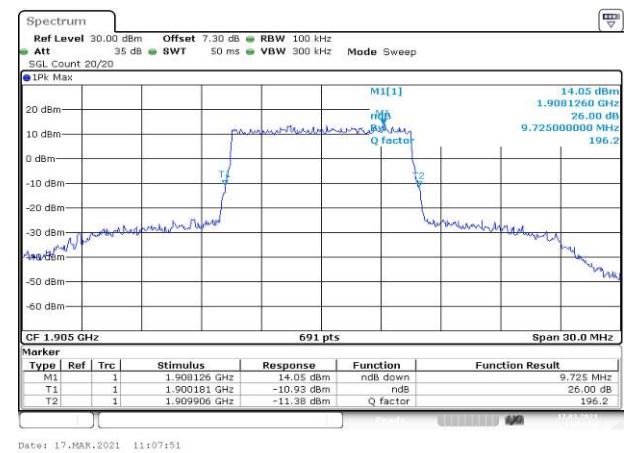


Fig.34

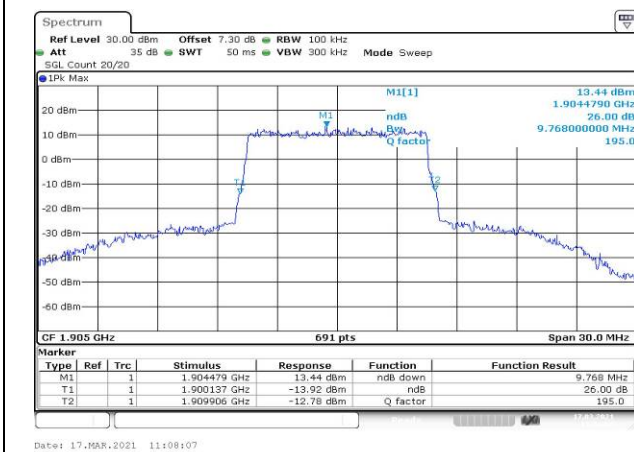


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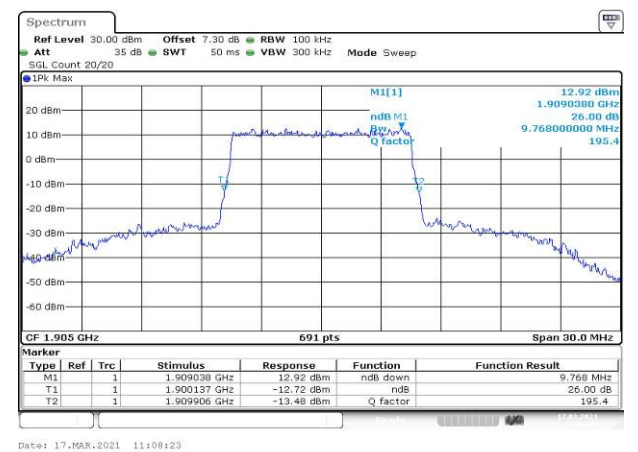


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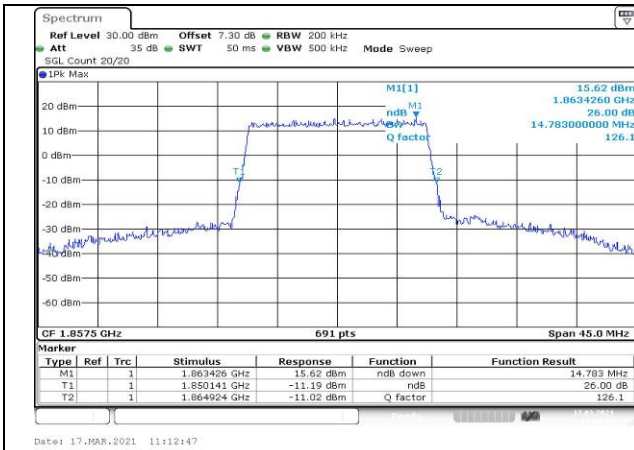


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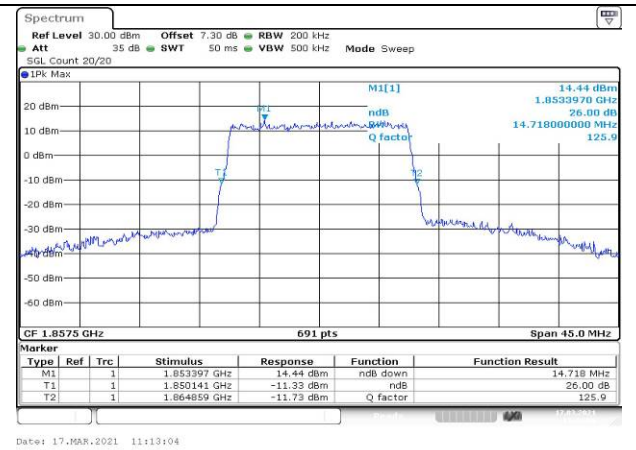


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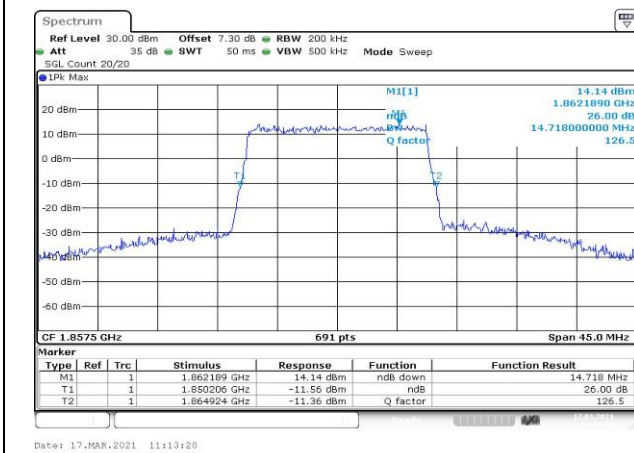


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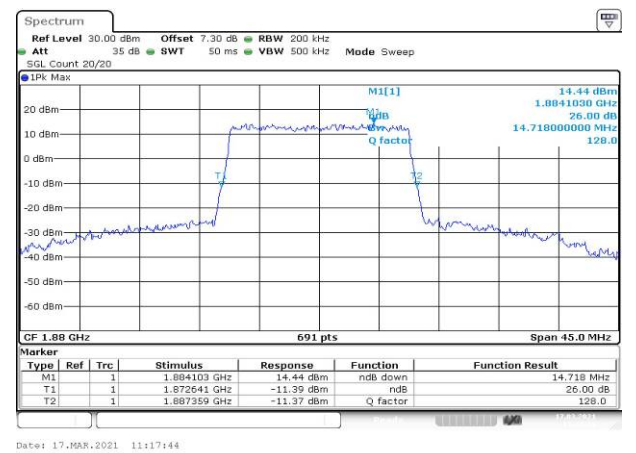


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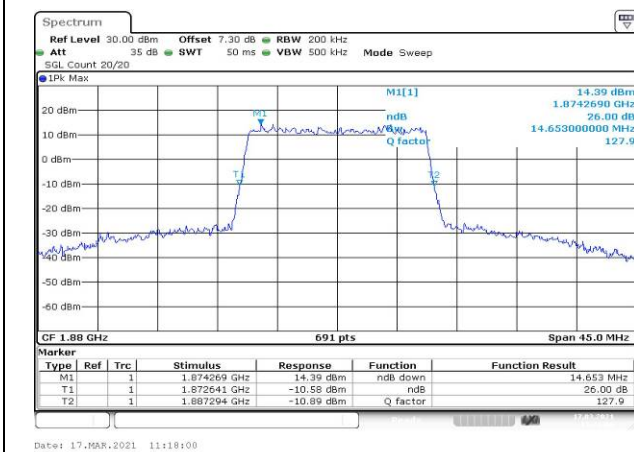


Fig.41

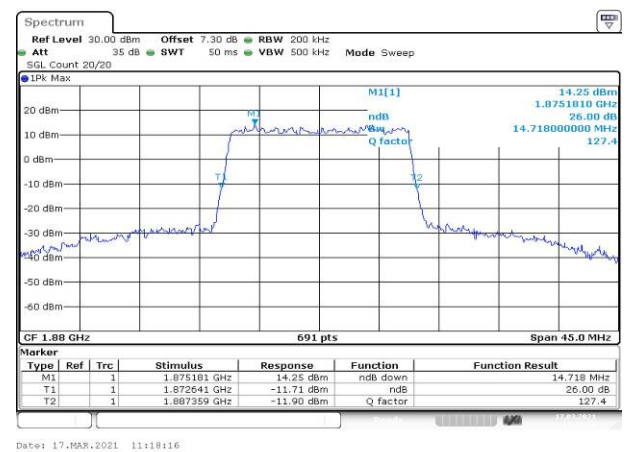


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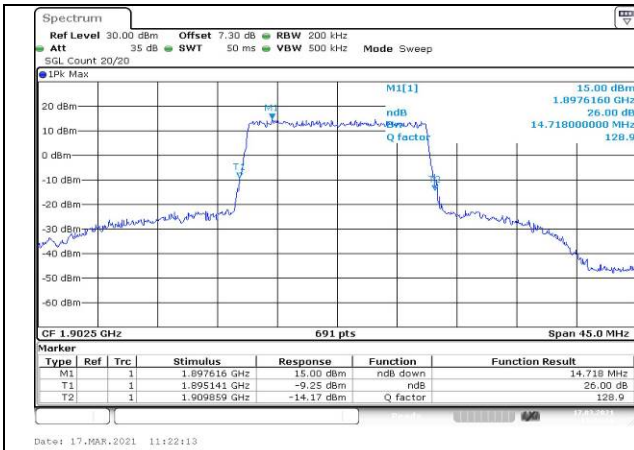


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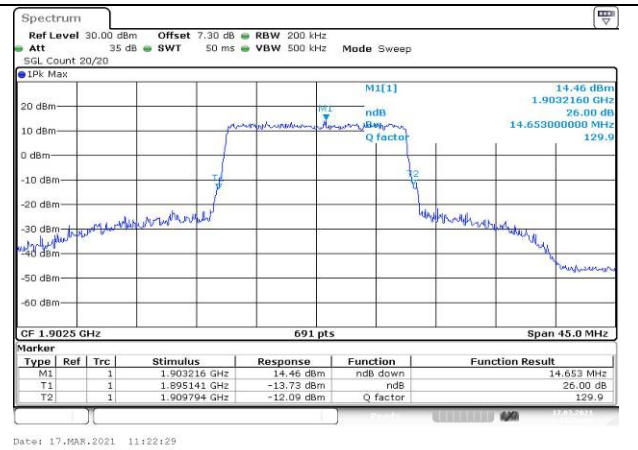


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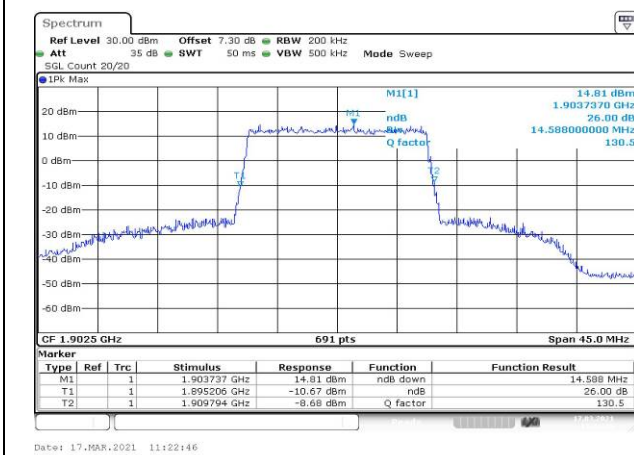


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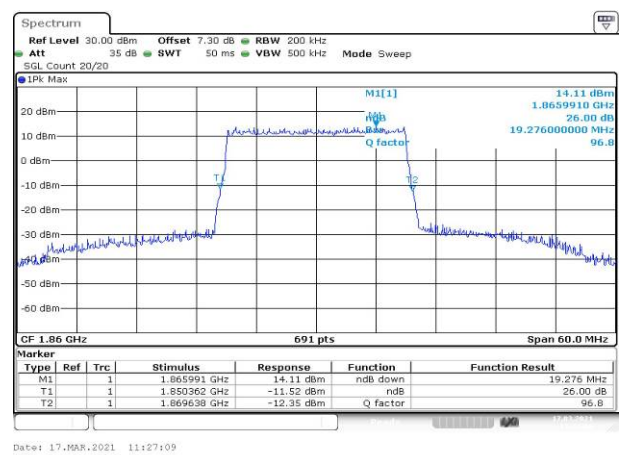


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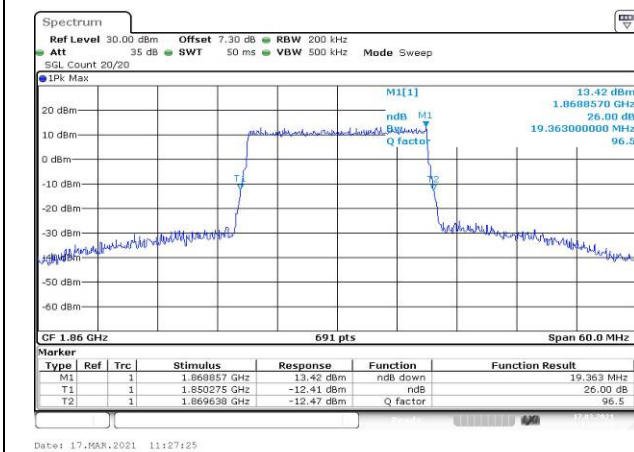


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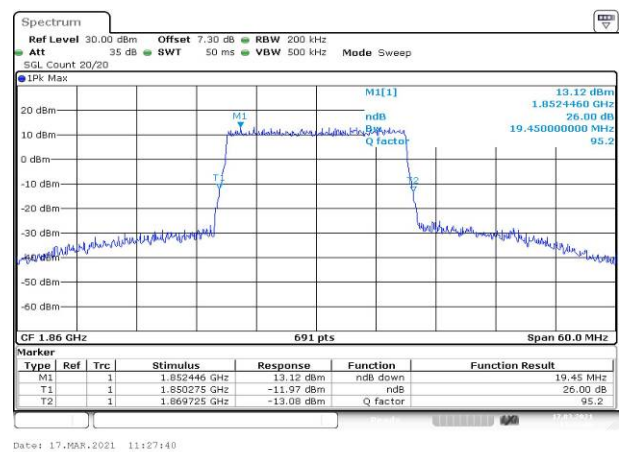


Fig.48