

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	24.02	
				1	3	24.10	
				1	5	24.14	
				3	0	24.10	
				3	1	24.16	
				3	3	24.21	
				6	0	23.19	
	1880	18900		1	0	23.83	
				1	3	23.75	
				1	5	23.86	
				3	0	23.86	
				3	1	23.95	
				3	3	23.82	
				6	0	22.90	
	1909.3	19193		1	0	24.21	
				1	3	24.13	
				1	5	24.18	
				3	0	24.17	
				3	1	24.01	
				3	3	24.08	
				6	0	23.09	
	16QAM	1850.7		18607	1	0	23.43
					1	3	23.28
					1	5	23.43
3					0	23.29	
3					1	23.41	
3					3	23.13	
6					0	22.27	
1880		18900		1	0	22.84	
				1	3	22.80	
				1	5	22.94	
				3	0	23.18	
				3	1	23.13	
				3	3	23.21	
				6	0	21.94	
1909.3		19193		1	0	23.12	
				1	3	23.25	
				1	5	23.28	
				3	0	22.93	
				3	1	22.99	
				3	3	23.05	
				6	0	22.15	

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	22.17
				1	5	22.27
				3	0	22.40
				3	1	22.45
				3	3	22.42
				6	0	21.38
	1880	18900		1	0	22.29
				1	3	22.51
				1	5	22.54
				3	0	21.86
				3	1	22.25
				3	3	22.14
				6	0	21.07
	1909.3	19193		1	0	21.58
				1	3	21.27
				1	5	21.29
				3	0	21.68
				3	1	21.47
				3	3	21.48
				6	0	20.78

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	23.93
				1	8	23.92
				1	14	24.16
				8	0	23.11
				8	4	23.24
				8	7	23.21
				15	0	23.16
	1880	18900		1	0	23.94
				1	8	24.02
				1	14	24.00
				8	0	23.00
				8	4	22.91
				8	7	22.90
				15	0	22.99
	1908.5	19185		1	0	24.18
				1	8	24.03
				1	14	24.09
				8	0	23.39
				8	4	23.12
				8	7	23.12
				15	0	23.19
16QAM	1851.5	18615	1	0	23.65	
			1	8	23.58	
			1	14	23.75	
			8	0	22.40	
			8	4	22.42	
			8	7	22.35	
			15	0	22.20	
	1880	18900	1	0	23.15	
			1	8	23.15	
			1	14	23.14	
			8	0	22.05	
			8	4	22.02	
			8	7	22.02	
			15	0	21.93	
	1908.5	19185	1	0	23.41	
			1	8	23.21	
			1	14	23.20	
			8	0	22.41	
			8	4	22.18	
			8	7	22.19	
			15	0	22.41	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	22.30
				1	8	22.56
				1	14	22.50
				8	0	21.27
				8	4	21.34
				8	7	21.36
				15	0	21.31
	1880	18900		1	0	22.04
				1	8	22.08
				1	14	22.08
				8	0	21.03
				8	4	20.91
				8	7	20.88
				15	0	21.18
	1908.5	19185		1	0	21.32
				1	8	21.04
				1	14	21.05
				8	0	20.46
				8	4	20.48
				8	7	20.45
				15	0	20.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1852.5	18625	5	1	0	23.97	
				1	12	24.06	
				1	24	24.09	
				12	0	23.11	
				12	7	23.24	
				12	13	23.18	
				25	0	23.16	
	1880	18900		1	0	23.88	
				1	12	24.00	
				1	24	23.92	
				12	0	22.97	
				12	7	23.05	
				12	13	23.00	
				25	0	22.97	
	1907.5	19175		1	0	24.19	
				1	12	24.15	
				1	24	24.12	
				12	0	23.33	
				12	7	23.17	
				12	13	23.16	
				25	0	23.16	
	16QAM	1852.5		18625	1	0	23.06
					1	12	23.14
					1	24	23.17
12					0	22.09	
12					7	22.20	
12					13	22.19	
25					0	22.34	
1880		18900	1	0	23.30		
			1	12	23.42		
			1	24	23.20		
			12	0	22.09		
			12	7	22.03		
			12	13	22.08		
			25	0	22.00		
1907.5		19175	1	0	23.13		
			1	12	23.18		
			1	24	23.14		
			12	0	22.27		
			12	7	22.30		
			12	13	22.24		
25	0	22.29					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	22.13
				1	12	22.24
				1	24	22.33
				12	0	21.20
				12	7	21.22
				12	13	21.18
				25	0	21.24
	1880	18900		1	0	21.96
				1	12	22.16
				1	24	22.13
				12	0	21.01
				12	7	21.07
				12	13	21.14
				25	0	20.99
	1907.5	19175		1	0	21.50
				1	12	21.28
				1	24	21.29
				12	0	20.57
				12	7	20.63
				12	13	20.64
				25	0	20.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1855	18650	10	1	0	24.00	
				1	25	23.95	
				1	49	24.03	
				25	0	23.10	
				25	12	23.08	
				25	25	23.10	
				50	0	23.13	
	1880	18900		1	0	23.78	
				1	25	23.95	
				1	49	23.94	
				25	0	22.94	
				25	12	22.96	
				25	25	23.02	
				50	0	22.96	
	1905	19150		1	0	24.05	
				1	25	24.21	
				1	49	24.19	
				25	0	23.24	
				25	12	23.36	
				25	25	23.42	
				50	0	23.25	
	16QAM	1855		18650	1	0	23.98
					1	25	23.77
					1	49	23.76
25					0	22.19	
25					12	22.20	
25					25	22.12	
50					0	22.02	
1880		18900		1	0	23.05	
				1	25	23.15	
			1	49	23.16		
			25	0	21.99		
			25	12	22.07		
			25	25	22.08		
			50	0	21.91		
1905		19150	1	0	23.11		
			1	25	23.25		
			1	49	23.29		
			25	0	22.36		
			25	12	22.47		
			25	25	22.47		
			50	0	22.36		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	22.47
				1	25	22.79
				1	49	22.39
				25	0	21.17
				25	12	21.23
				25	25	21.22
				50	0	21.22
	1880	18900		1	0	22.04
				1	25	22.14
				1	49	22.09
				25	0	21.07
				25	12	20.98
				25	25	21.06
				50	0	21.02
	1905	19150		1	0	21.41
				1	25	21.29
				1	49	21.30
				25	0	20.77
				25	12	20.69
				25	25	20.69
				50	0	20.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1857.5	18675	15	1	0	23.94	
				1	37	23.90	
				1	74	23.89	
				36	0	23.14	
				36	29	23.11	
				36	30	23.10	
				75	0	23.06	
	1880	18900		1	0	23.56	
				1	37	23.69	
				1	74	23.81	
				36	0	22.72	
				36	29	22.90	
				36	30	23.00	
				75	0	22.80	
	1902.5	19125		1	0	23.99	
				1	37	24.16	
				1	74	24.20	
				36	0	23.14	
				36	29	23.27	
				36	30	23.24	
				75	0	23.13	
	16QAM	1857.5		18675	1	0	23.73
					1	37	23.53
					1	74	23.72
36					0	22.21	
36					29	22.13	
36					30	22.13	
75					0	22.16	
1880		18900		1	0	23.53	
				1	37	23.61	
			1	74	23.69		
			36	0	21.86		
			36	29	21.95		
			36	30	21.97		
			75	0	21.87		
1902.5		19125	1	0	23.39		
			1	37	23.23		
			1	74	23.20		
			36	0	22.22		
			36	29	22.29		
			36	30	22.27		
			75	0	22.22		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	22.27
				1	37	22.37
				1	74	22.32
				36	0	21.20
				36	29	21.21
				36	30	21.12
				75	0	21.12
	1880	18900		1	0	22.00
				1	37	22.34
				1	74	22.32
				36	0	20.89
				36	29	21.07
				36	30	21.04
				75	0	20.82
	1902.5	19125		1	0	21.63
				1	37	21.50
				1	74	21.48
				36	0	20.75
				36	29	20.46
				36	30	20.47
				75	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	24.13
				1	49	23.90
				1	99	23.69
				50	0	23.04
				50	24	22.98
				50	50	22.93
				100	0	23.02
	1880	18900		1	0	23.70
				1	49	23.91
				1	99	23.86
				50	0	22.66
				50	24	23.01
				50	50	22.89
				100	0	22.86
	1900	19100		1	0	23.93
				1	49	24.21
				1	99	24.10
				50	0	23.24
				50	24	23.24
				50	50	23.25
100				0	23.32	
16QAM	1860	18700		1	0	23.46
				1	49	22.99
				1	99	23.00
				50	0	22.13
				50	24	21.95
				50	50	21.96
				100	0	22.11
	1880	18900		1	0	23.30
				1	49	23.58
			1	99	23.53	
			50	0	21.70	
			50	24	21.98	
			50	50	21.94	
			100	0	21.81	
	1900	19100	1	0	23.25	
			1	49	23.31	
			1	99	23.26	
			50	0	22.20	
			50	24	22.18	
			50	50	22.20	
100	0	22.34				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	22.44
				1	49	22.16
				1	99	22.03
				50	0	21.09
				50	24	20.96
				50	50	20.96
				100	0	21.02
	1880	18900		1	0	21.62
				1	49	21.86
				1	99	21.79
				50	0	20.71
				50	24	20.99
				50	50	21.02
				100	0	20.85
	1900	19100		1	0	22.30
				1	49	21.57
				1	99	21.55
				50	0	21.03
				50	24	20.50
				50	50	20.49
				100	0	20.79

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	1.082	Fig.1	1.082	Fig.2	1.082	Fig.3
	1880	18900		6	0	1.082	Fig.4	1.076	Fig.5	1.082	Fig.6
	1909.3	19193		6	0	1.082	Fig.7	1.082	Fig.8	1.088	Fig.9
	1851.5	18615	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	1880	18900		15	0	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	1908.5	19185		15	0	2.683	Fig.16	2.683	Fig.17	2.683	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	4.493	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	13.415	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	13.480	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

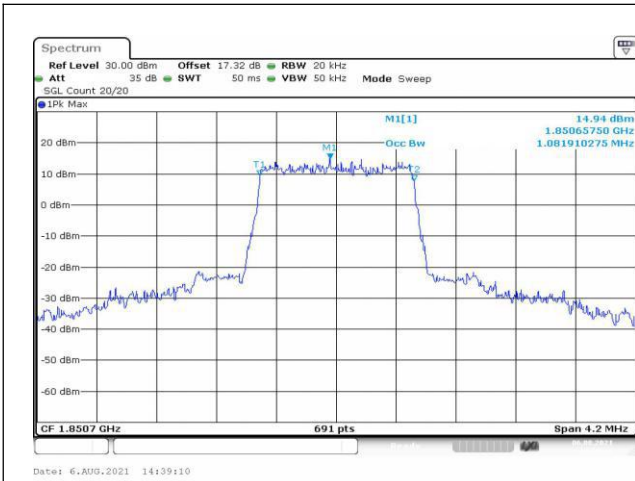


Fig.1

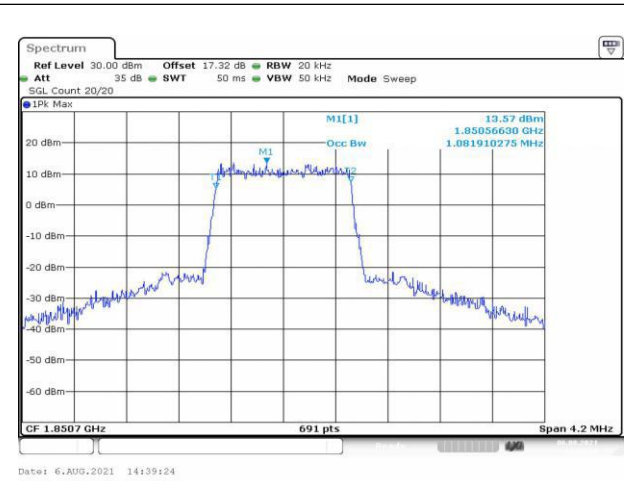


Fig.2

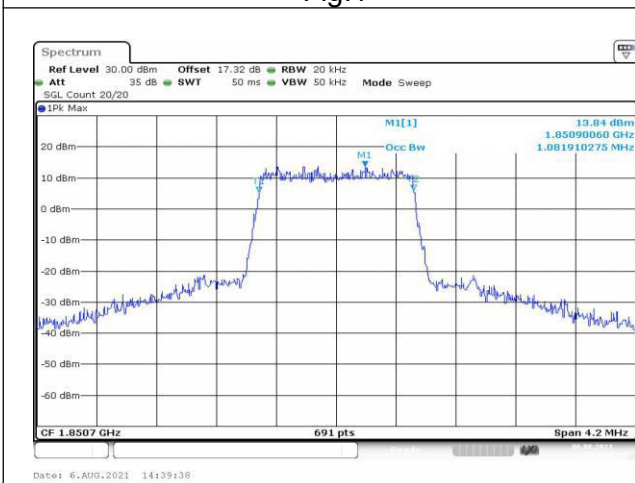


Fig.3

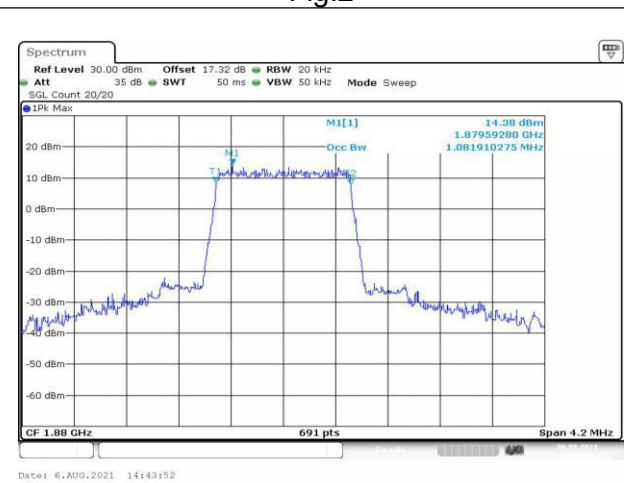


Fig.4

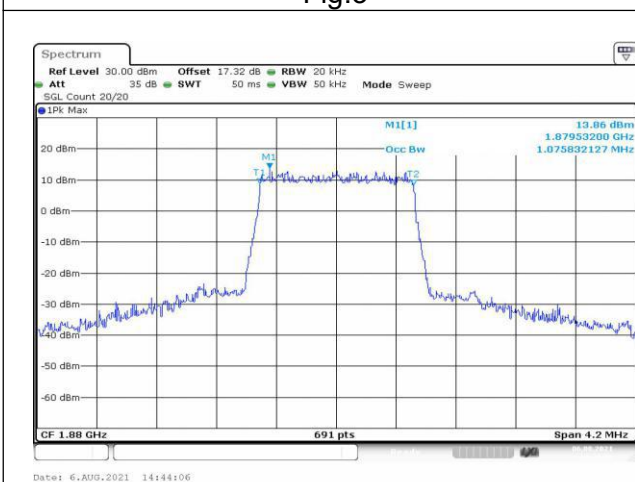


Fig.5

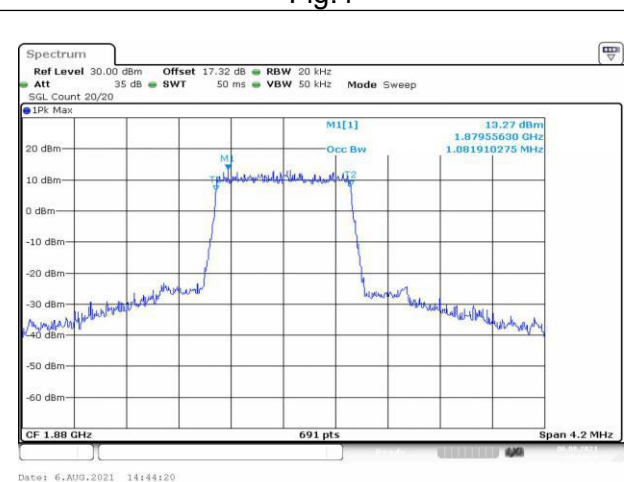


Fig.6

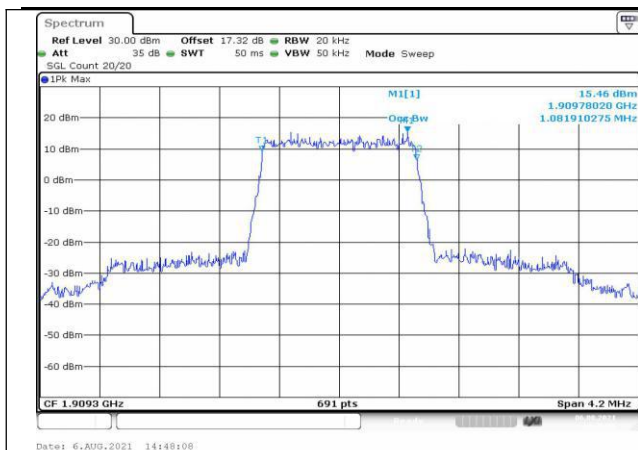


Fig.7

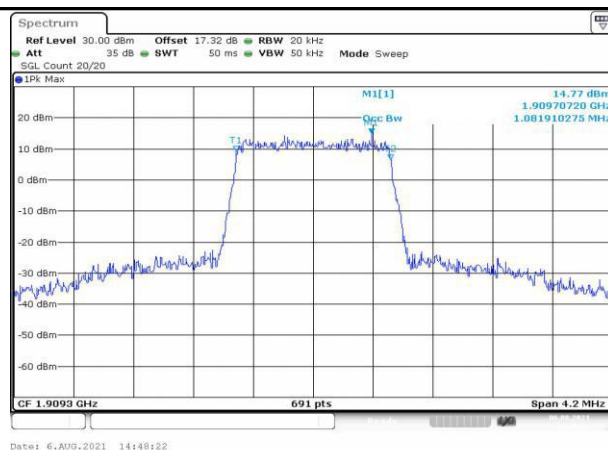


Fig.8

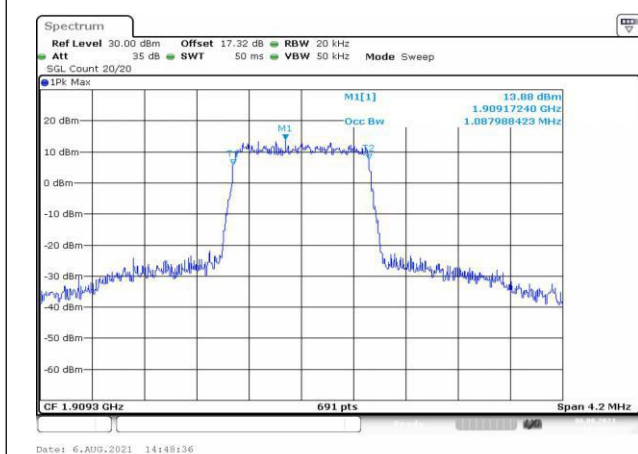


Fig.9

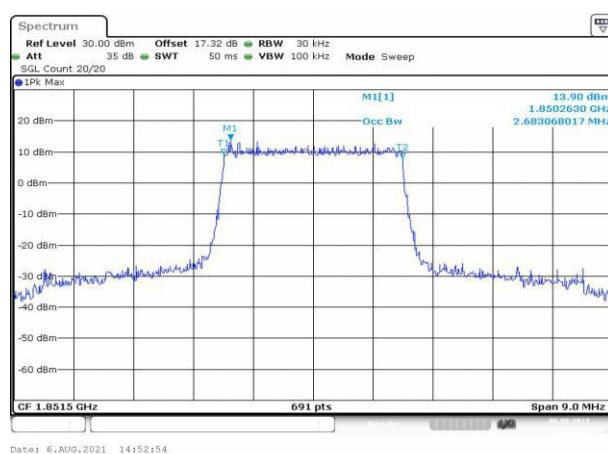


Fig.10

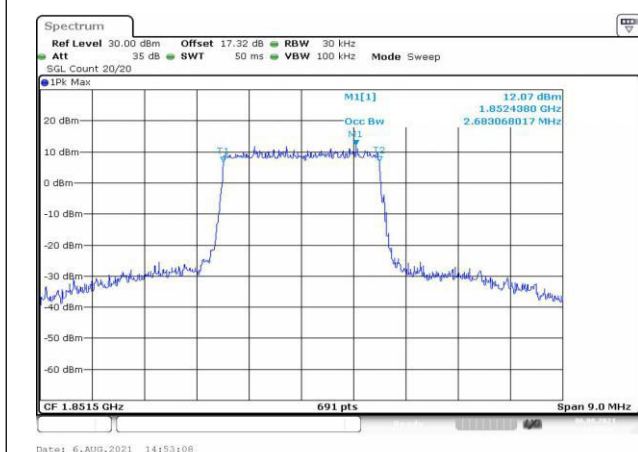


Fig.11

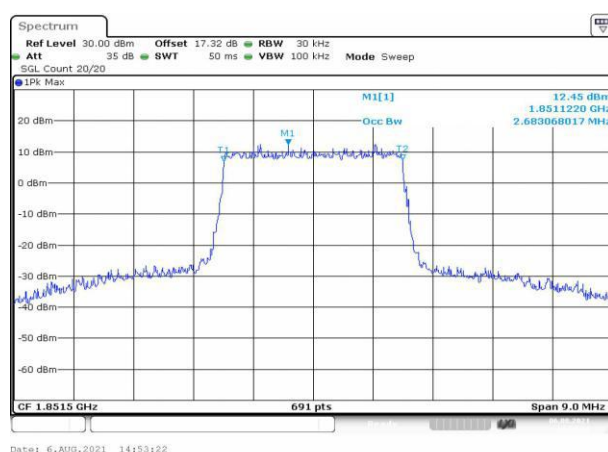
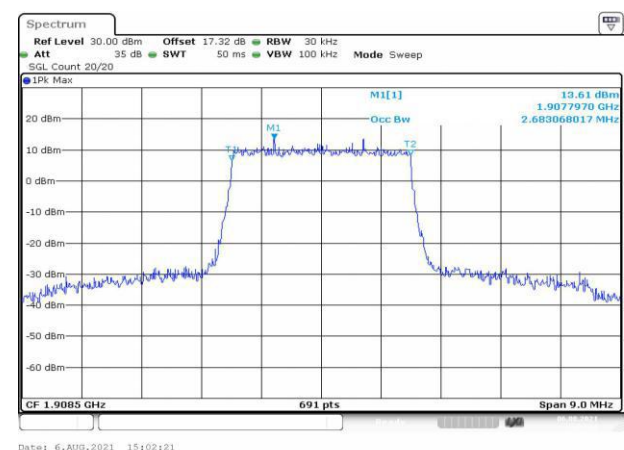
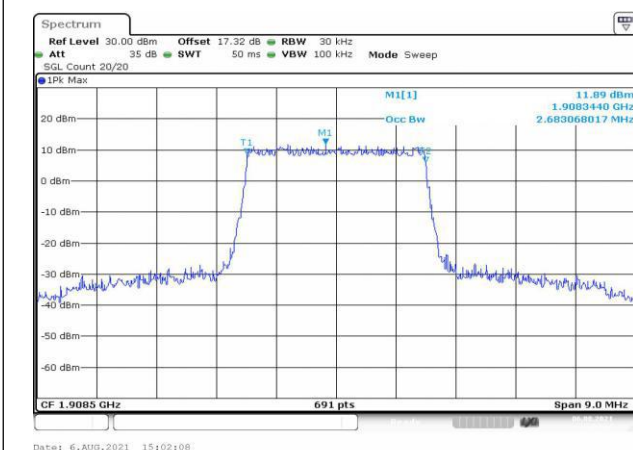
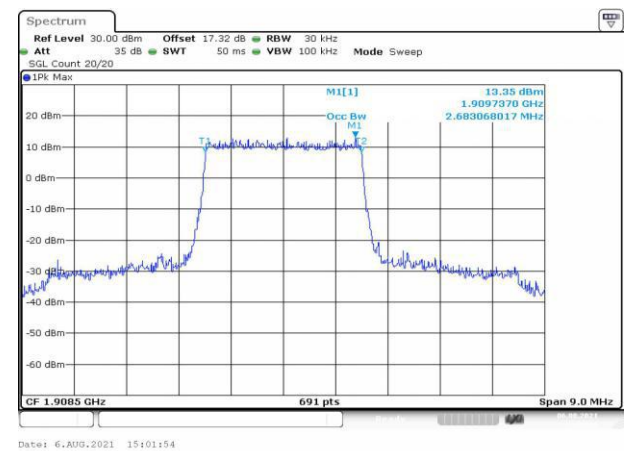
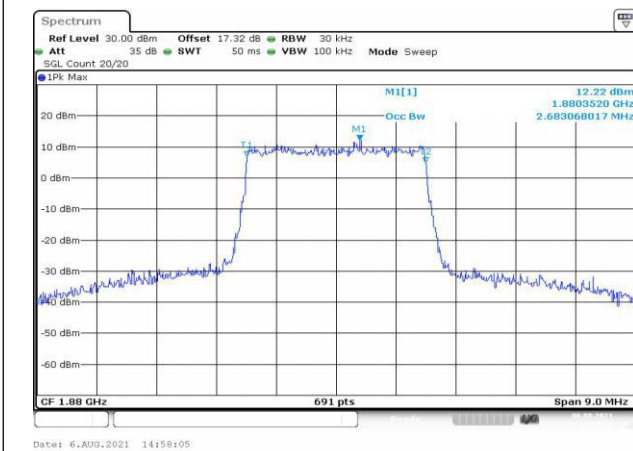
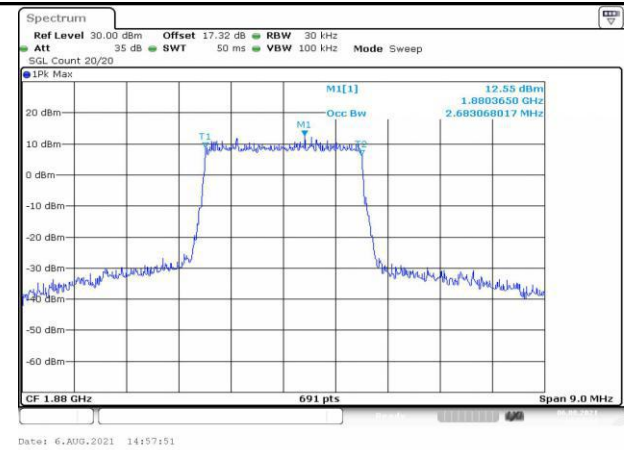
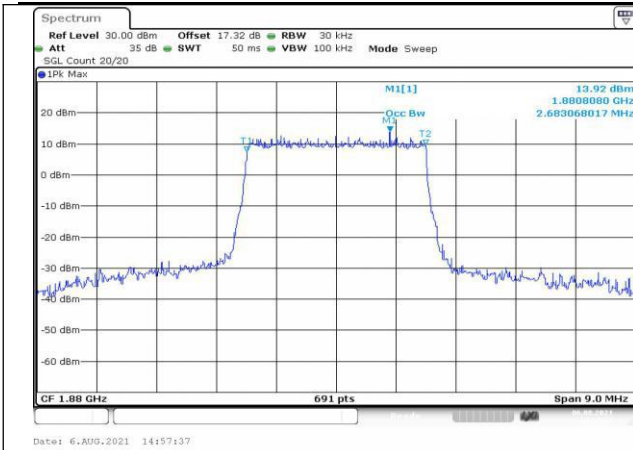
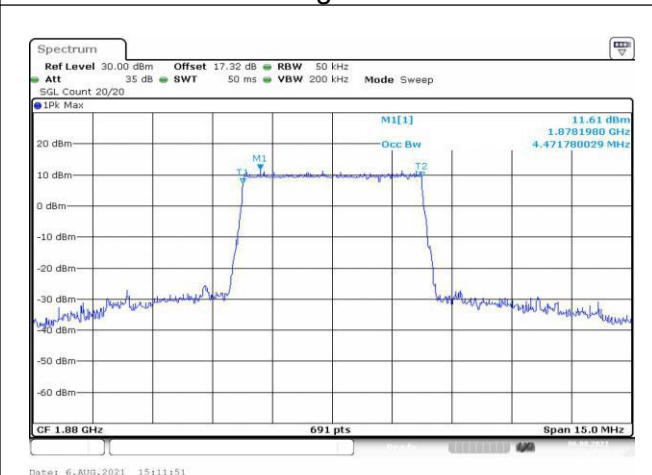
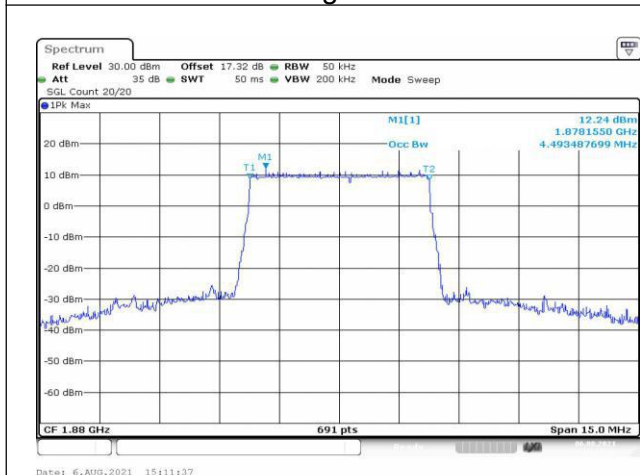
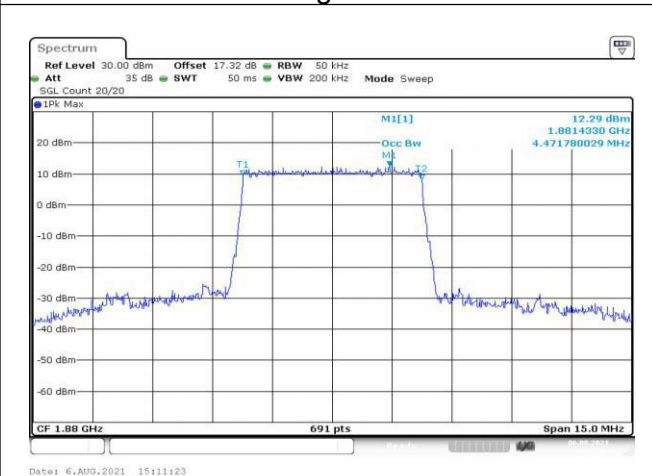
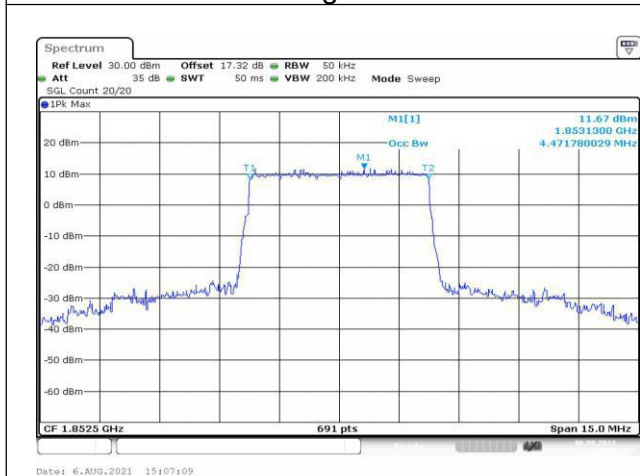
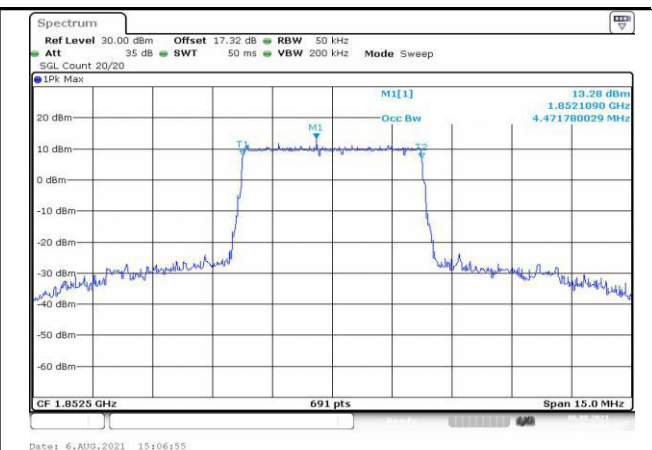
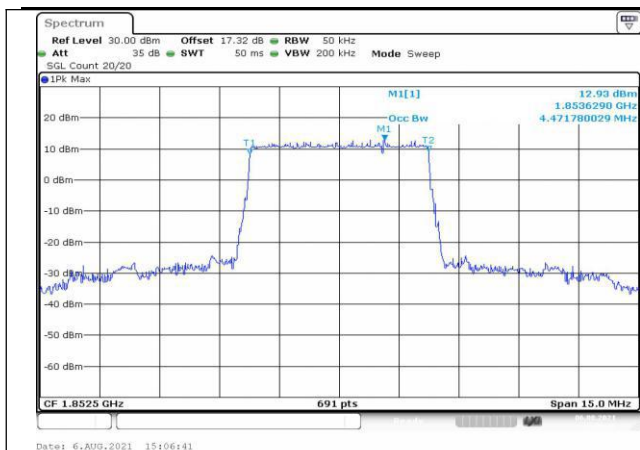
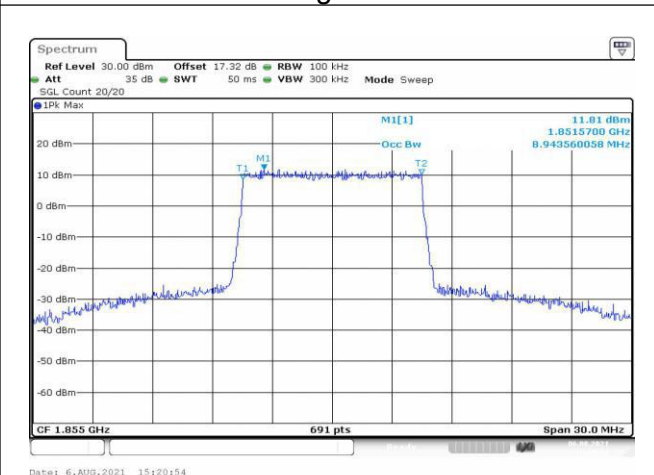
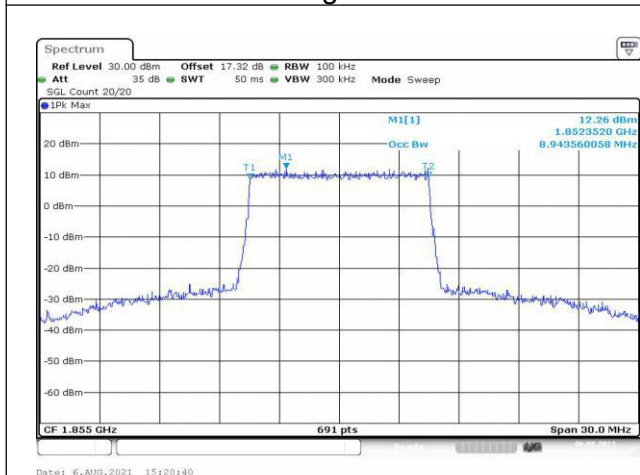
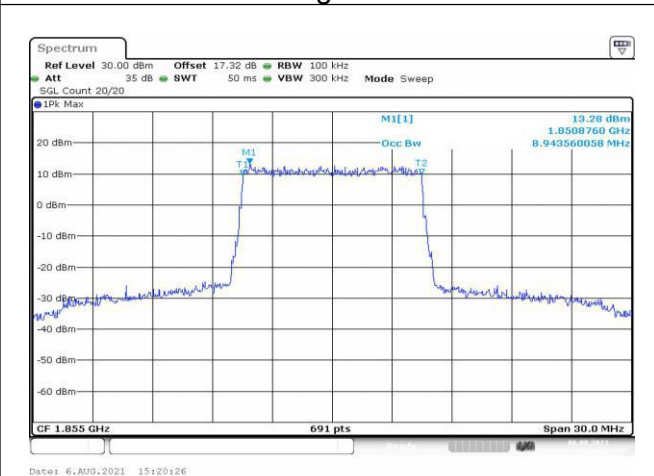
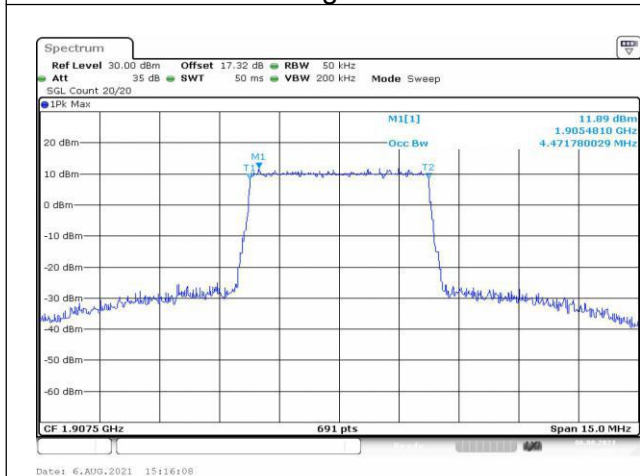
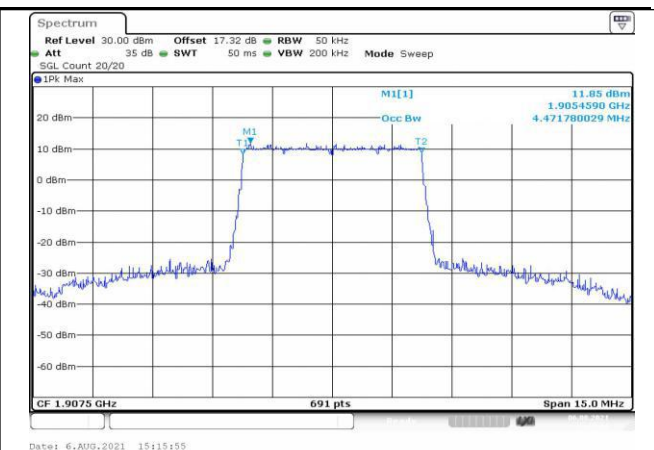
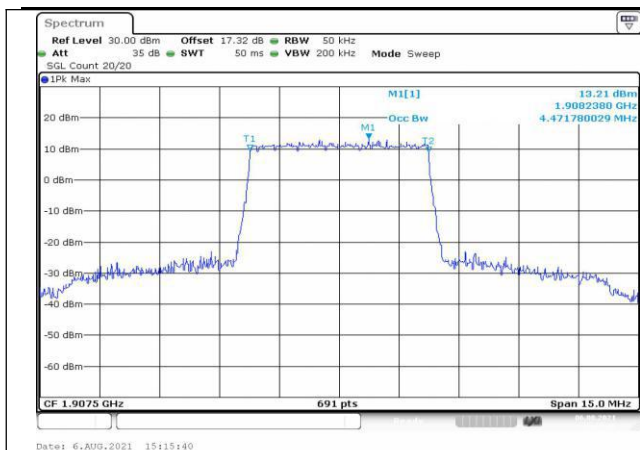
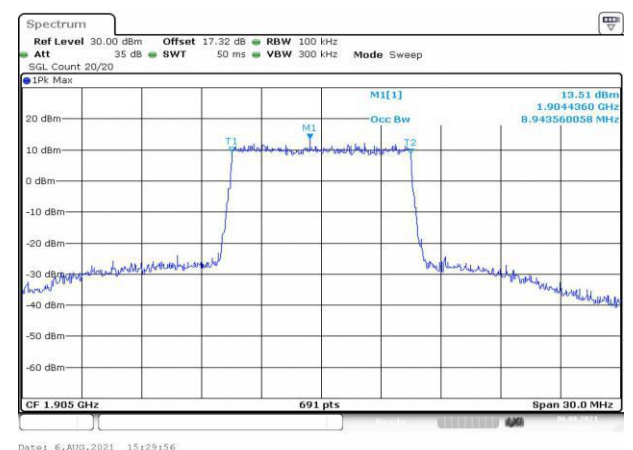
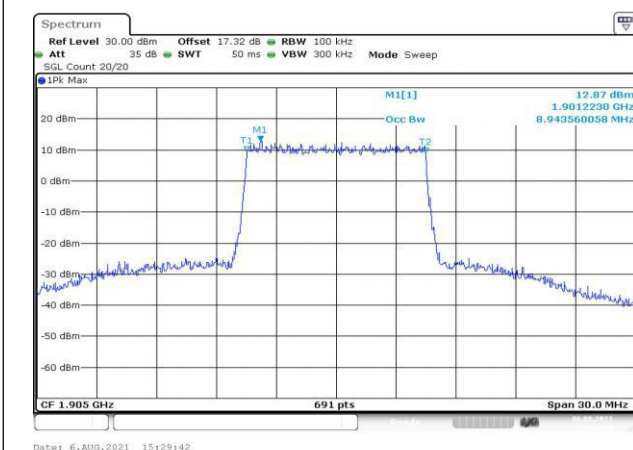
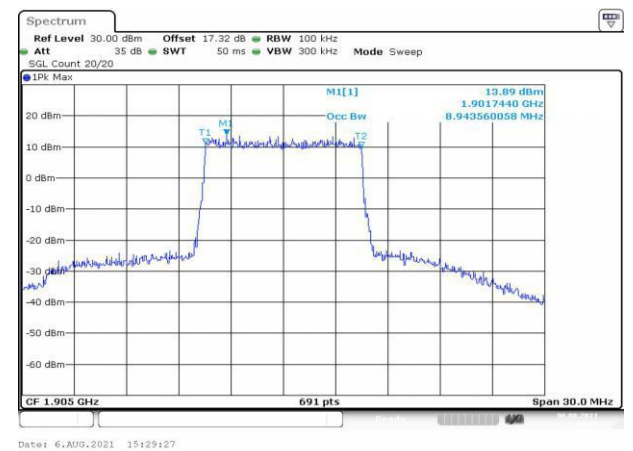
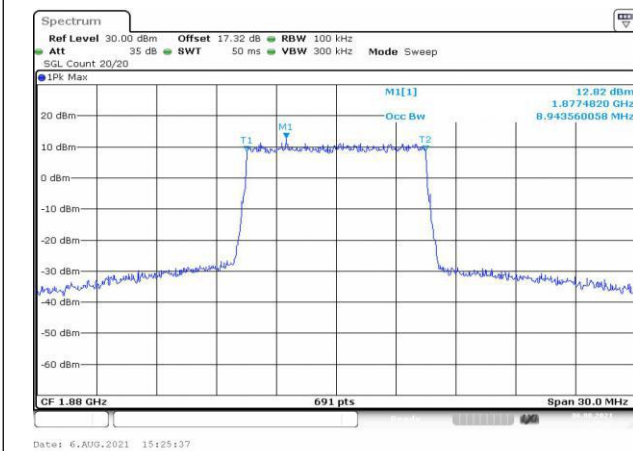
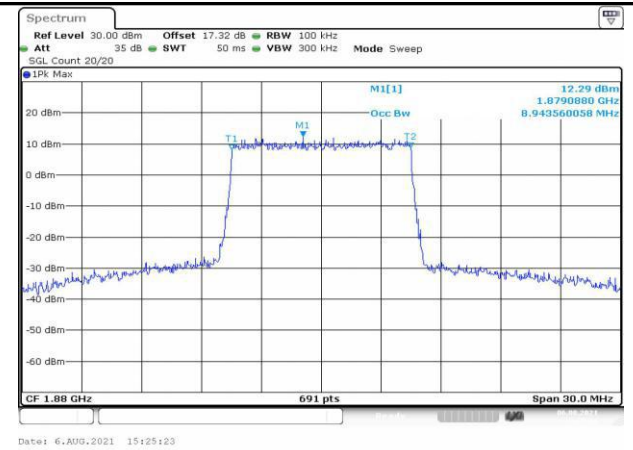
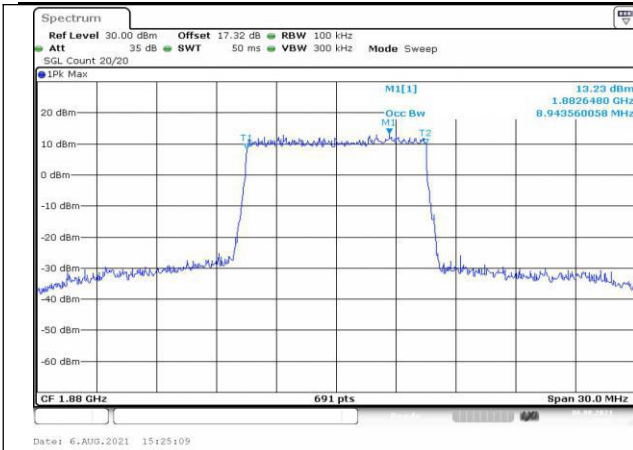


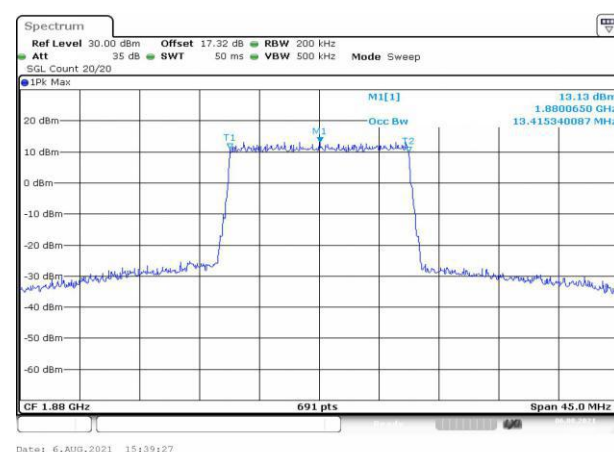
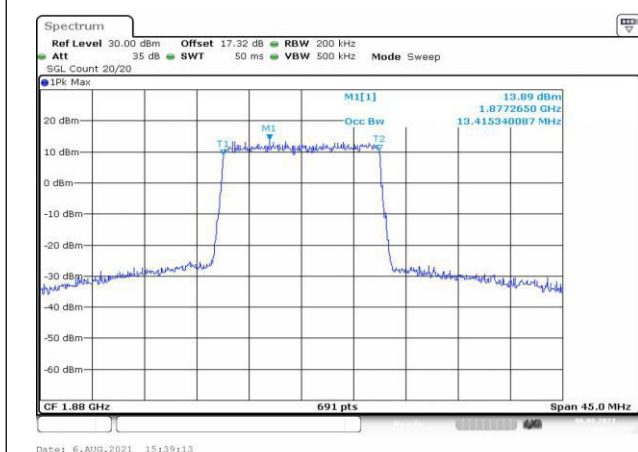
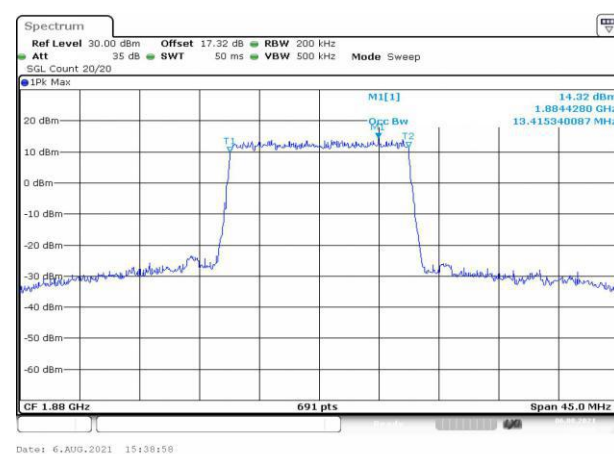
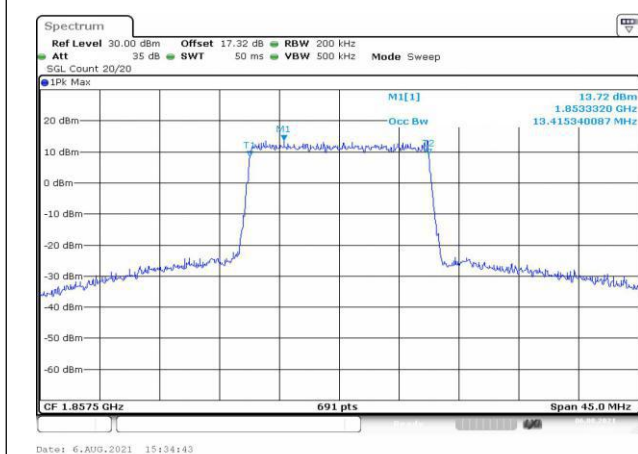
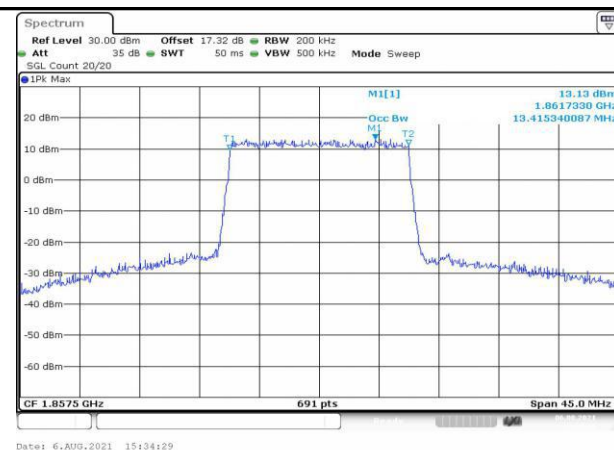
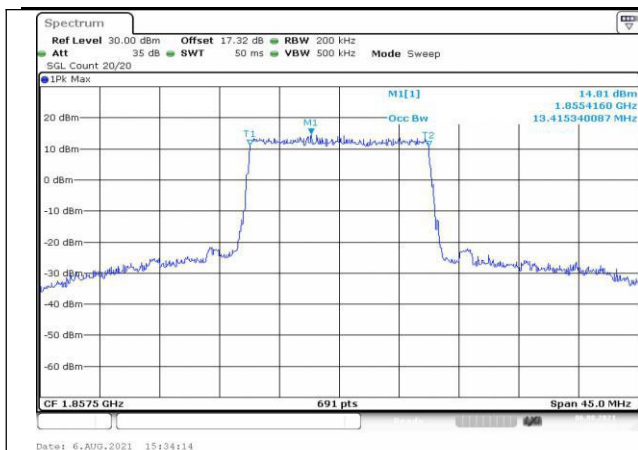
Fig.12











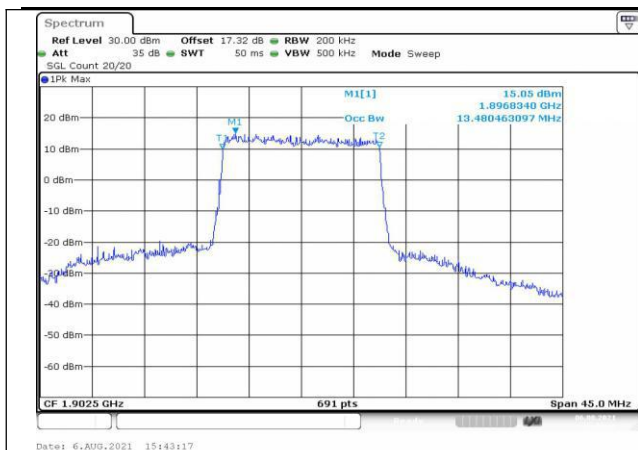


Fig.43

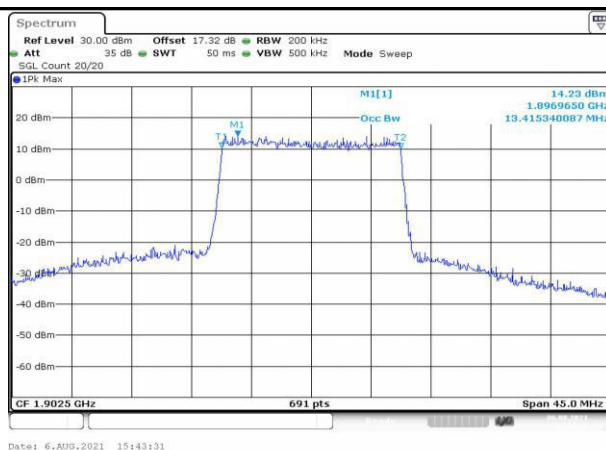


Fig.44

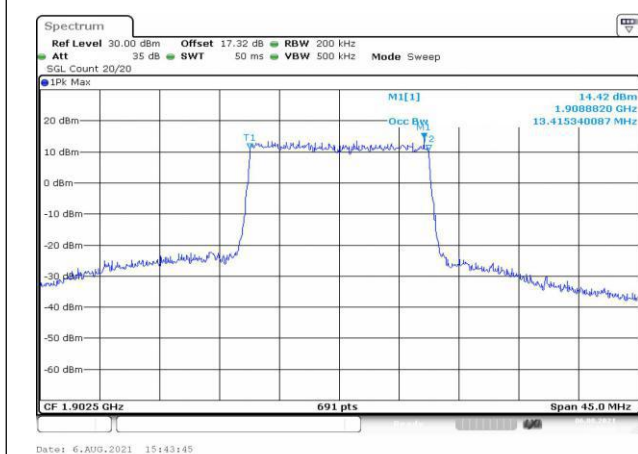


Fig.45

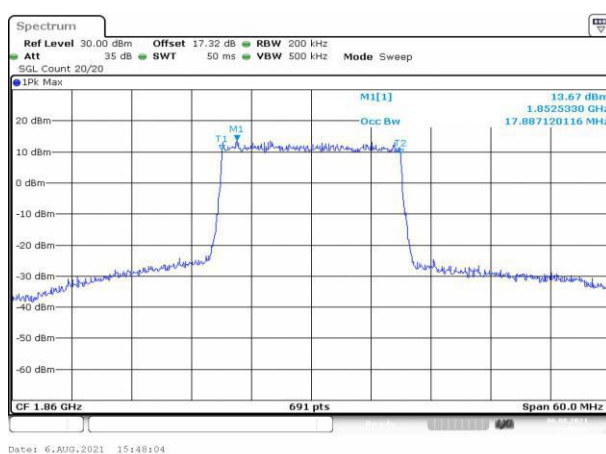


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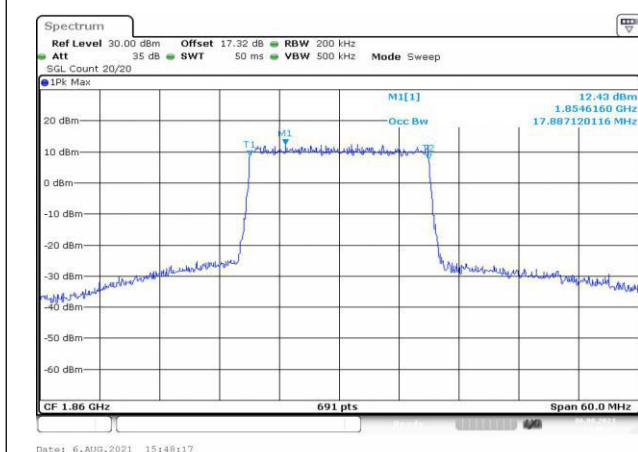


Fig.47

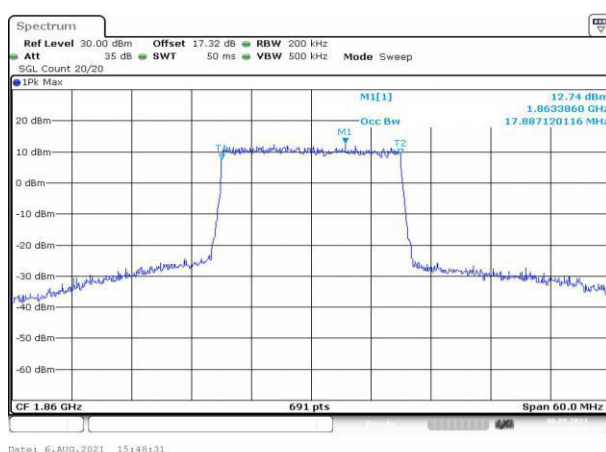


Fig.48

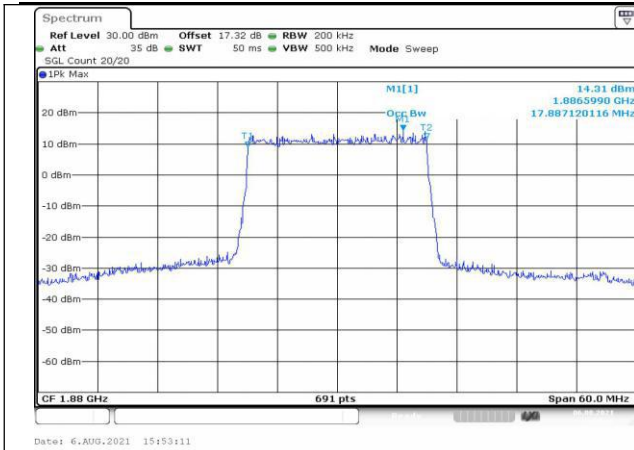


Fig.49

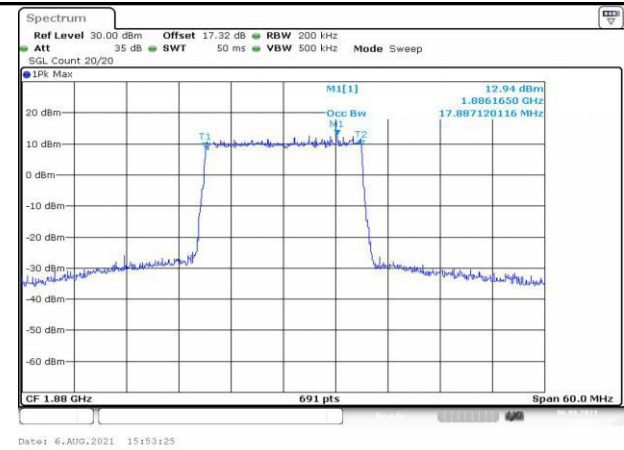


Fig.50

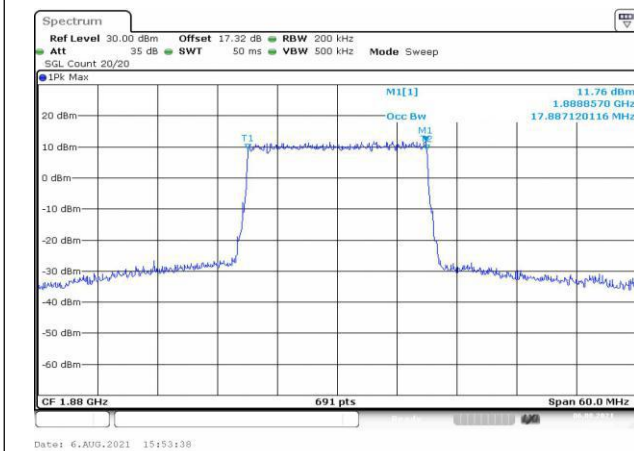


Fig.51

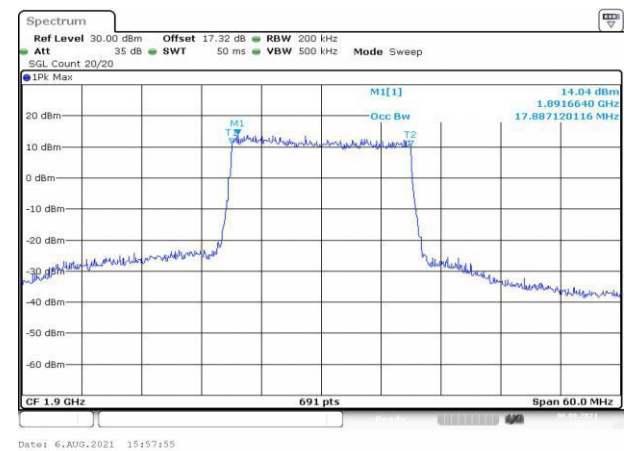


Fig.52

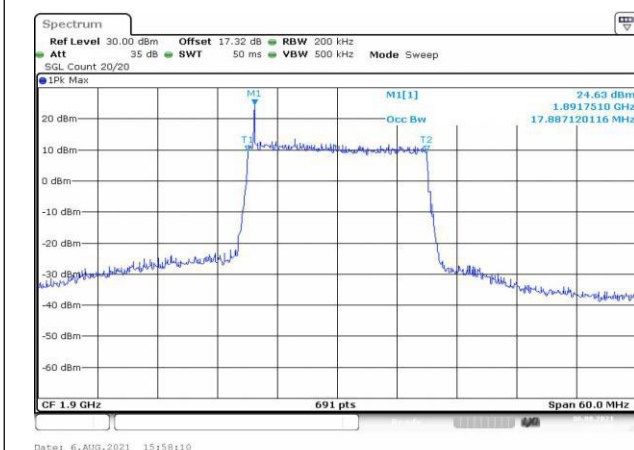


Fig.53

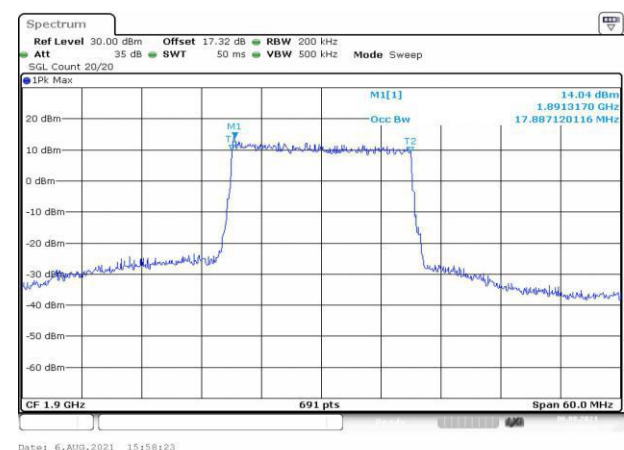
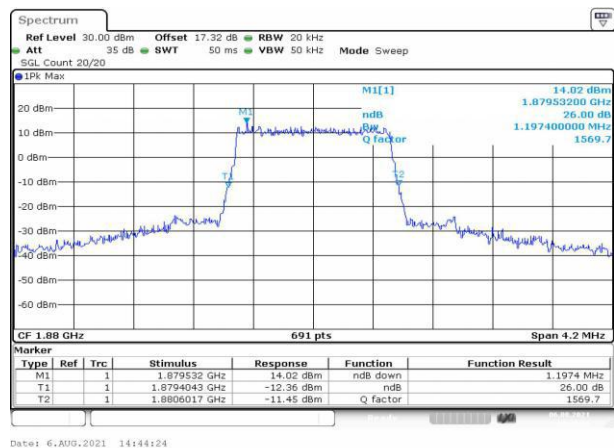
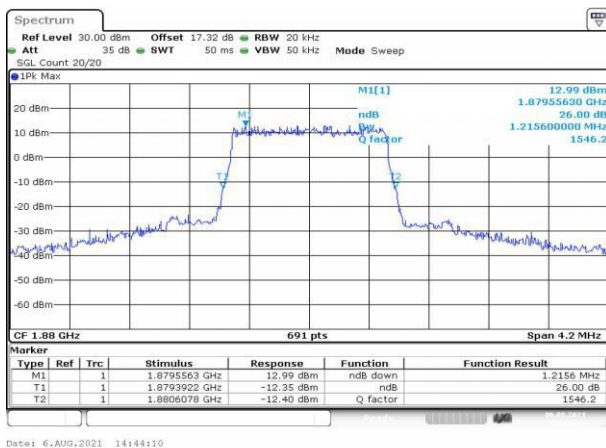
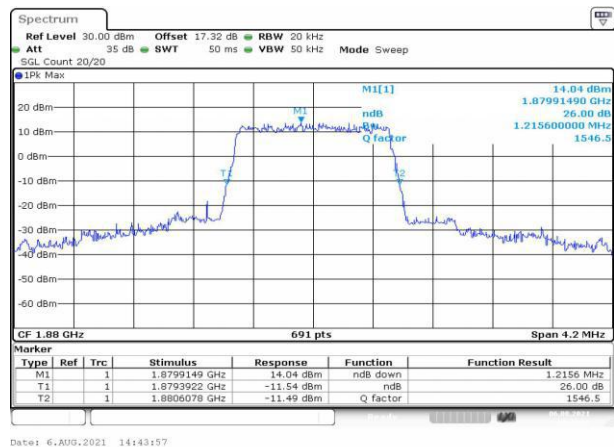
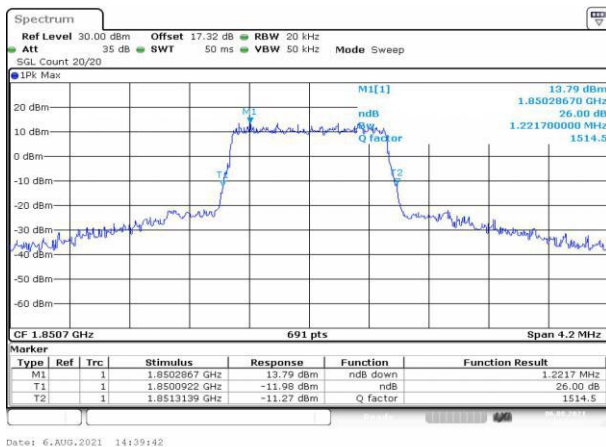
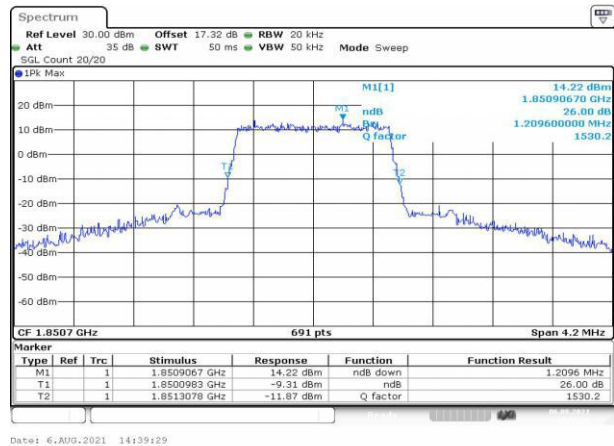
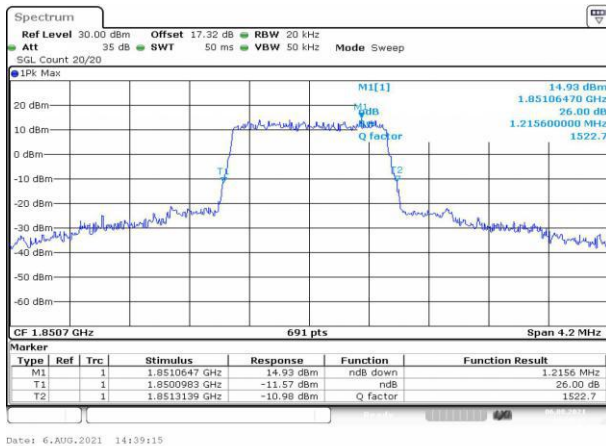
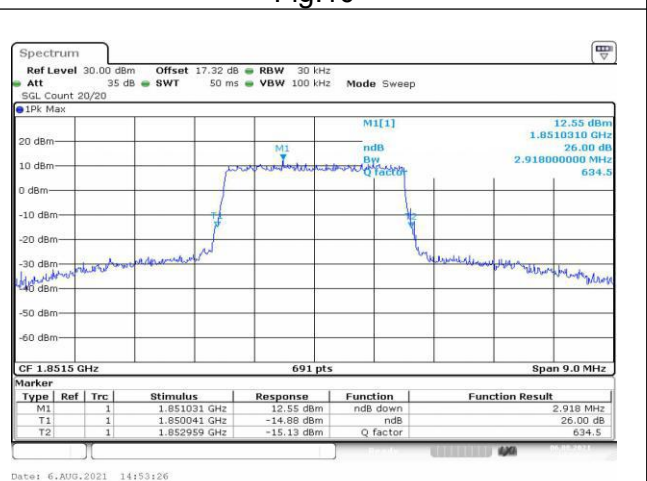
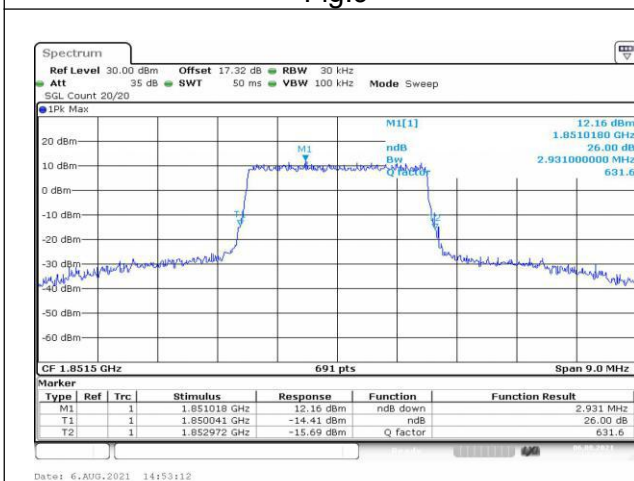
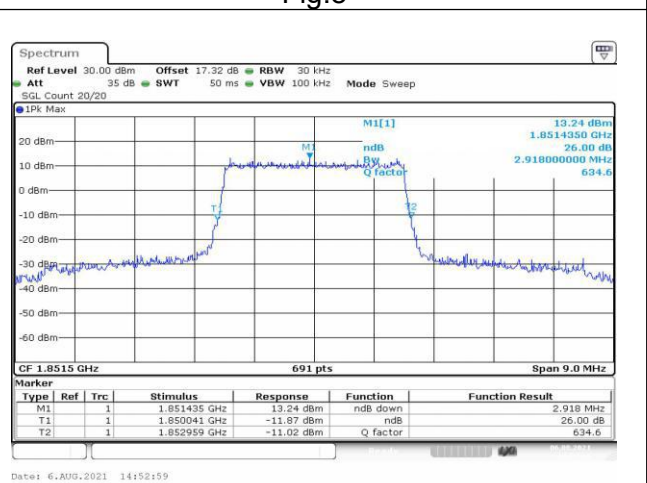
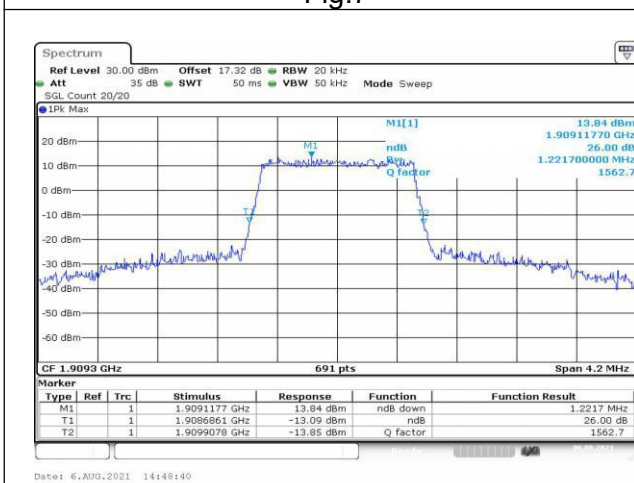
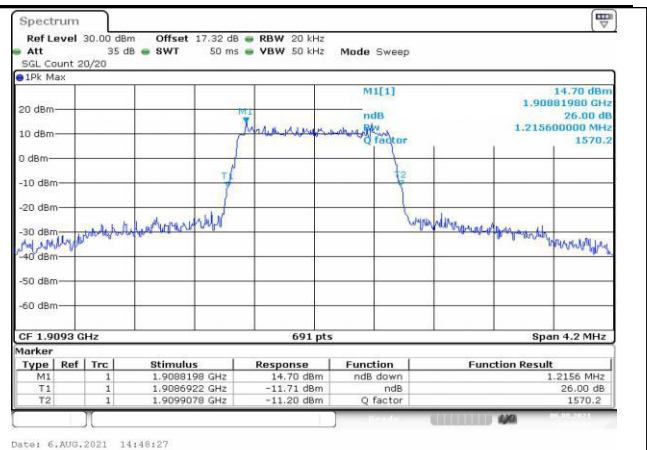
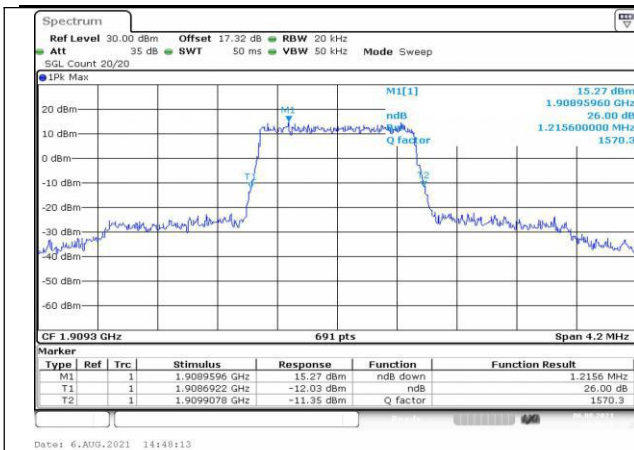


Fig.54

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	1.216	Fig.1	1.210	Fig.2	1.222	Fig.3
	1880	18900		6	0	1.216	Fig.4	1.216	Fig.5	1.197	Fig.6
	1909.3	19193		6	0	1.216	Fig.7	1.216	Fig.8	1.222	Fig.9
	1851.5	18615	3	15	0	2.918	Fig.10	2.931	Fig.11	2.918	Fig.12
	1880	18900		15	0	2.931	Fig.13	2.891	Fig.14	2.957	Fig.15
	1908.5	19185		15	0	2.931	Fig.16	2.918	Fig.17	2.904	Fig.18
	1852.5	18625	5	25	0	4.884	Fig.19	4.819	Fig.20	4.884	Fig.21
	1880	18900		25	0	4.863	Fig.22	4.884	Fig.23	4.884	Fig.24
	1907.5	19175		25	0	4.906	Fig.25	4.884	Fig.26	4.884	Fig.27
	1855	18650	10	50	0	9.682	Fig.28	9.638	Fig.29	9.595	Fig.30
	1880	18900		50	0	9.551	Fig.31	9.551	Fig.32	9.595	Fig.33
	1905	19150		50	0	9.638	Fig.34	9.638	Fig.35	9.682	Fig.36
	1857.5	18675	15	75	0	14.522	Fig.37	14.457	Fig.38	14.588	Fig.39
	1880	18900		75	0	14.522	Fig.40	14.522	Fig.41	14.522	Fig.42
	1902.5	19125		75	0	14.653	Fig.43	14.588	Fig.44	14.522	Fig.45
	1860	18700	20	100	0	19.103	Fig.46	19.276	Fig.47	19.103	Fig.48
	1880	18900		100	0	19.103	Fig.49	19.276	Fig.50	19.190	Fig.51
	1900	19100		100	0	19.190	Fig.52	19.190	Fig.53	19.103	Fig.54





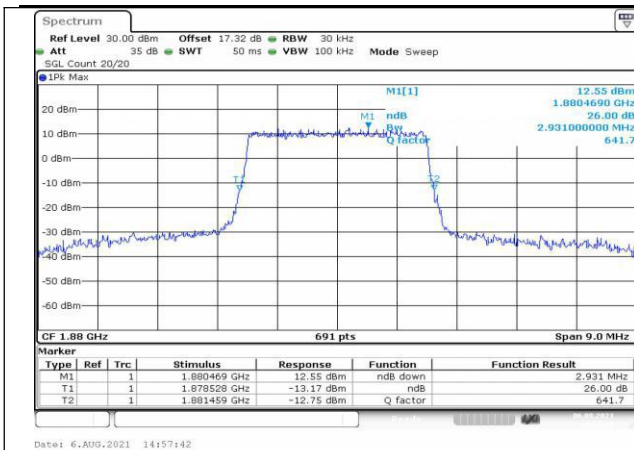


Fig.13

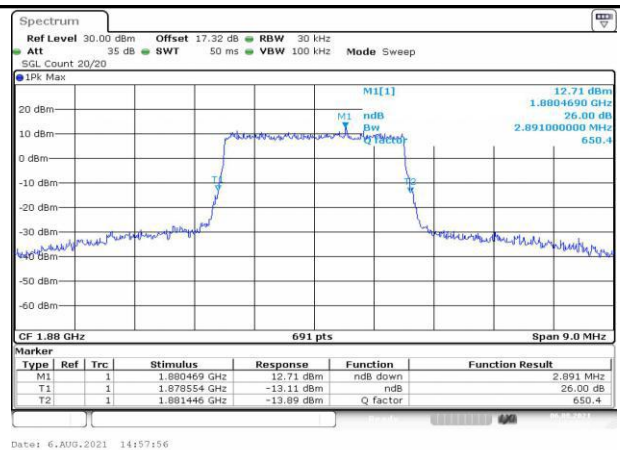


Fig.14

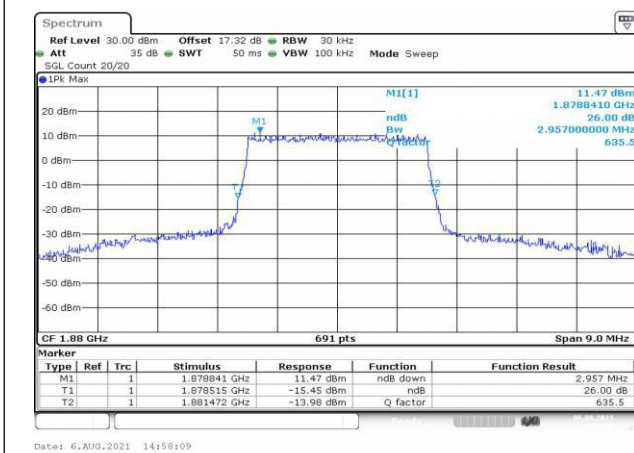


Fig.15

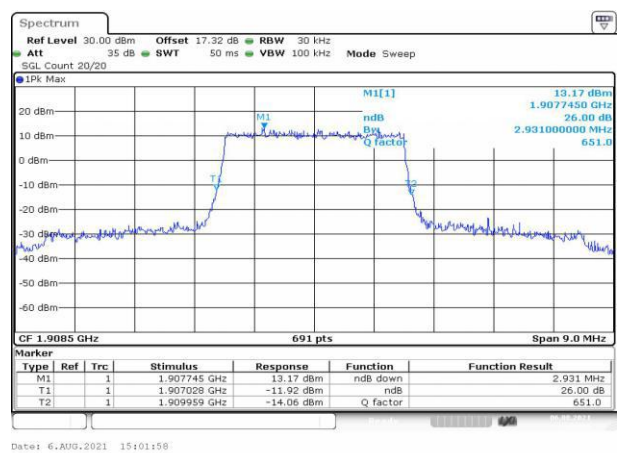


Fig.16

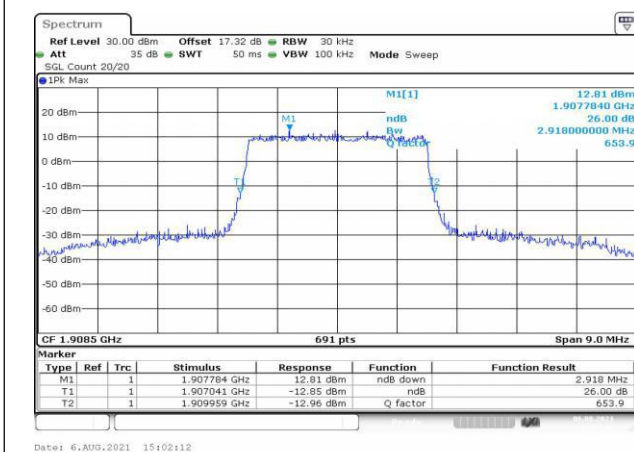


Fig.17

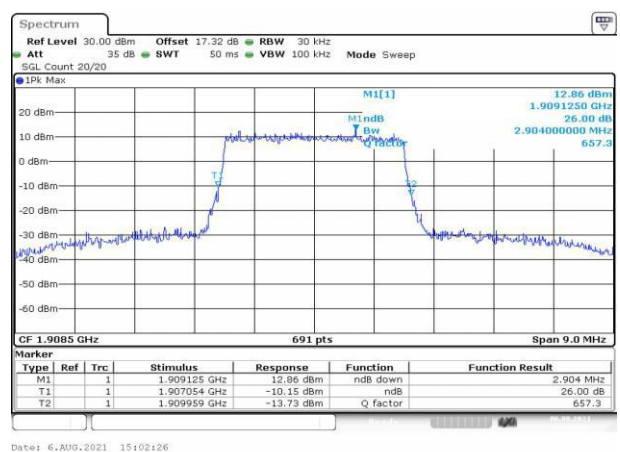


Fig.18

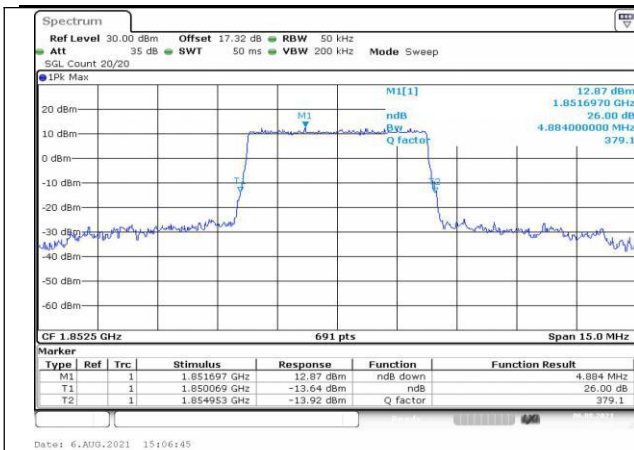


Fig.19

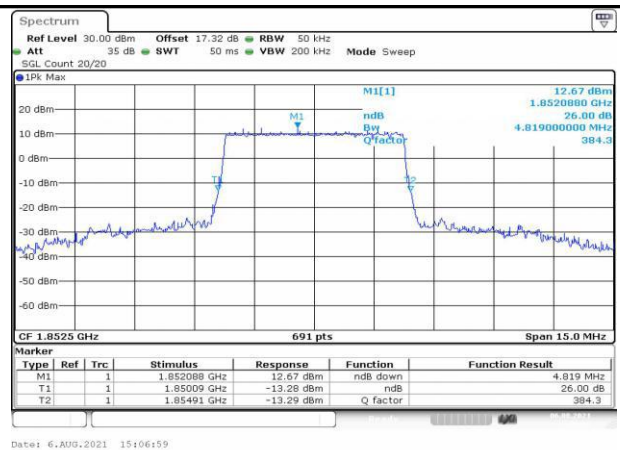


Fig.20

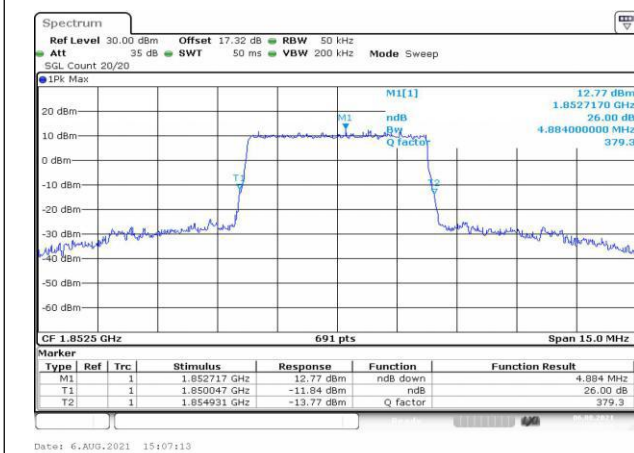


Fig.21

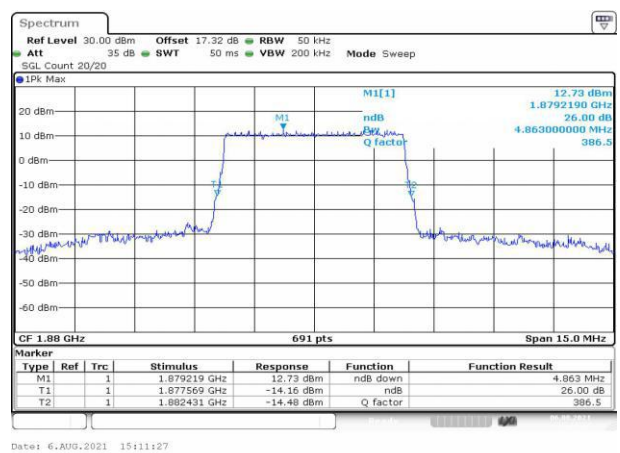


Fig.22

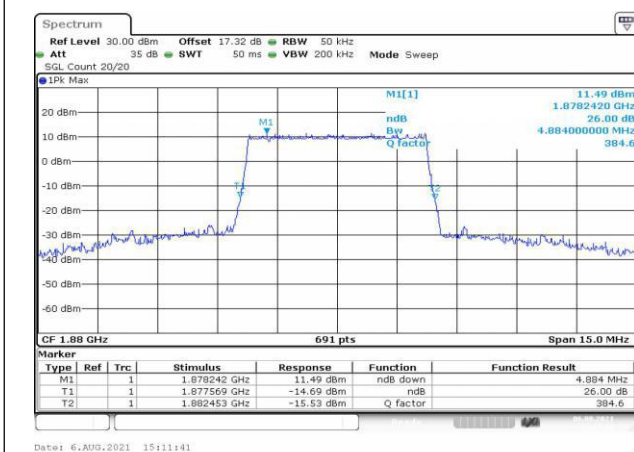


Fig.23

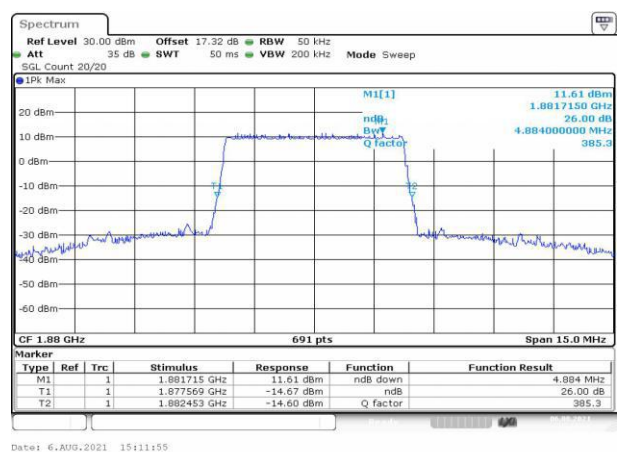


Fig.24

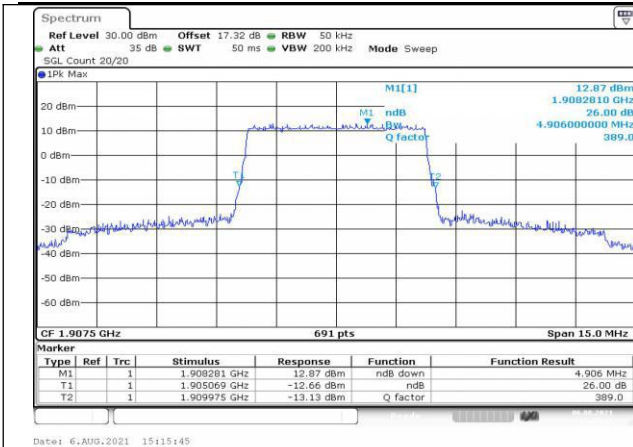


Fig.25

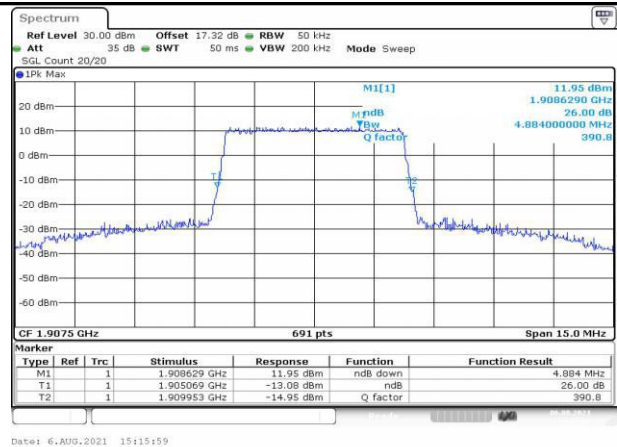


Fig.26

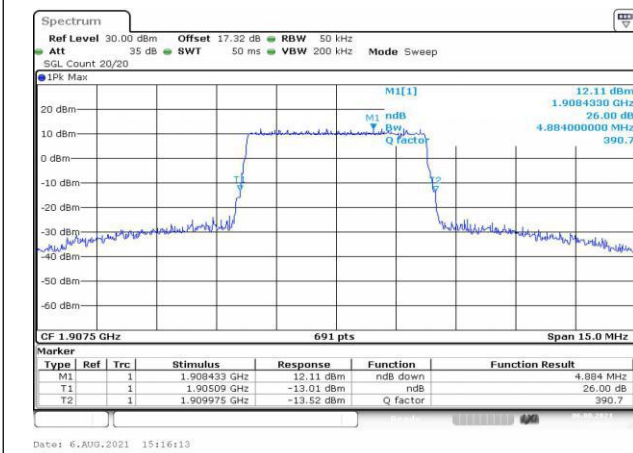


Fig.27

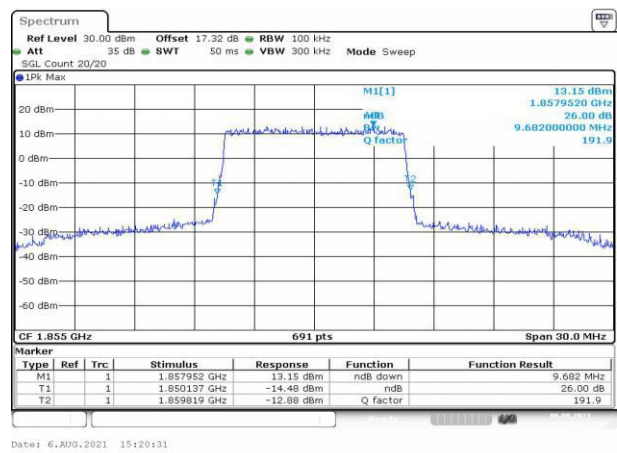


Fig.28

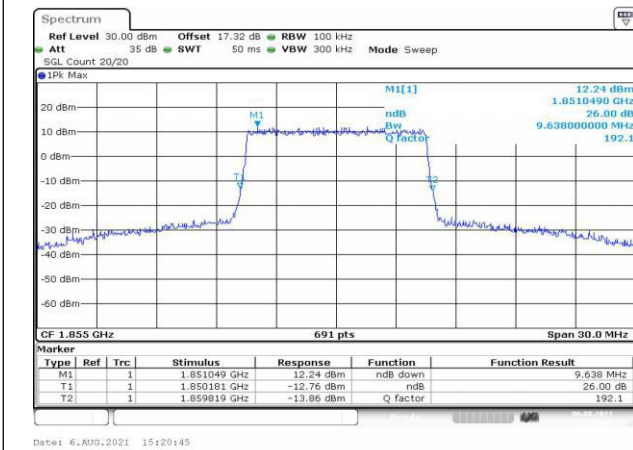


Fig.29

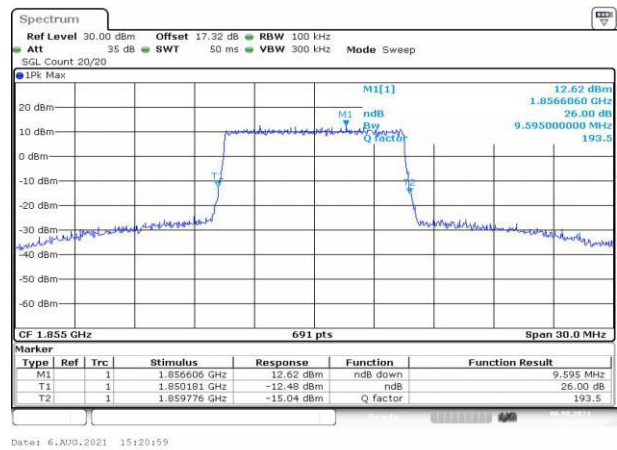
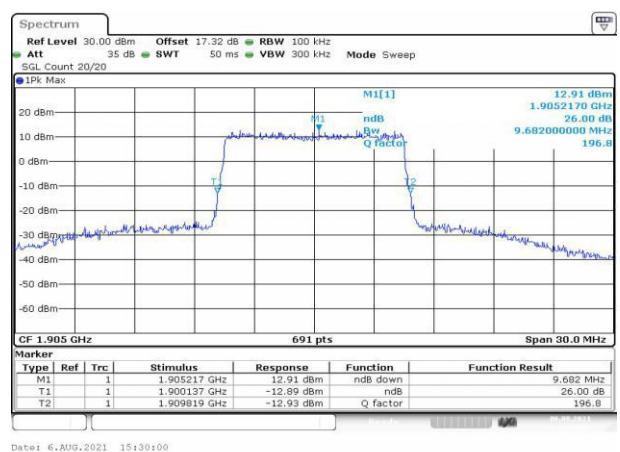
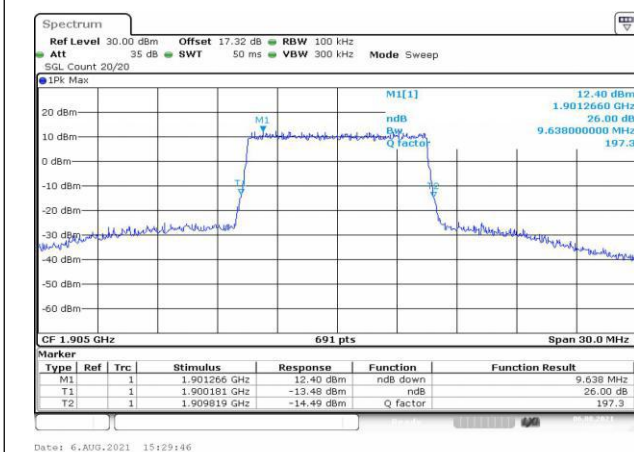
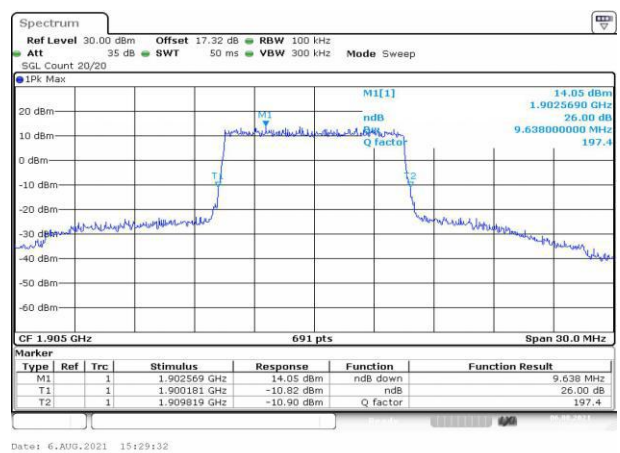
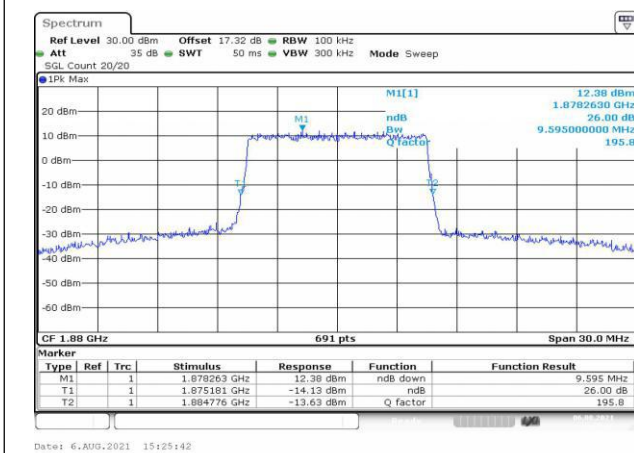
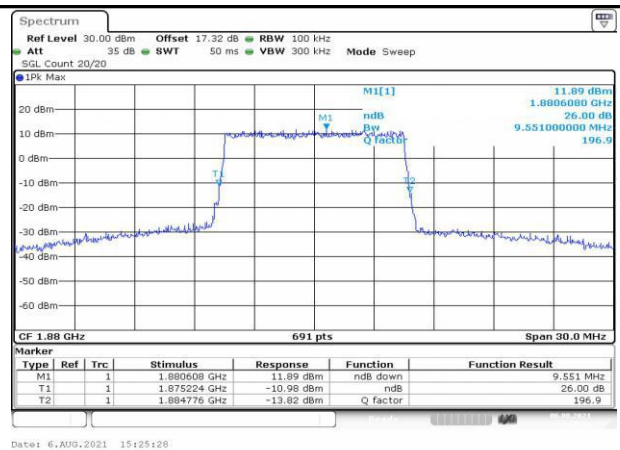
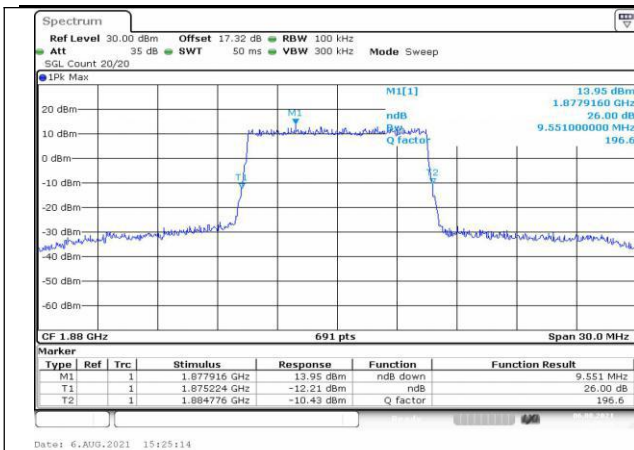
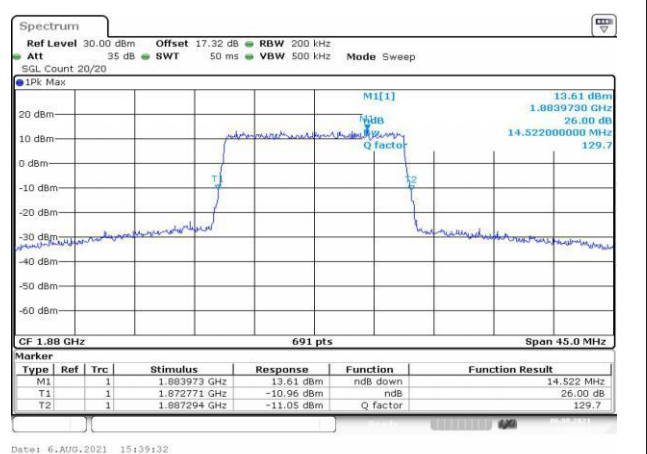
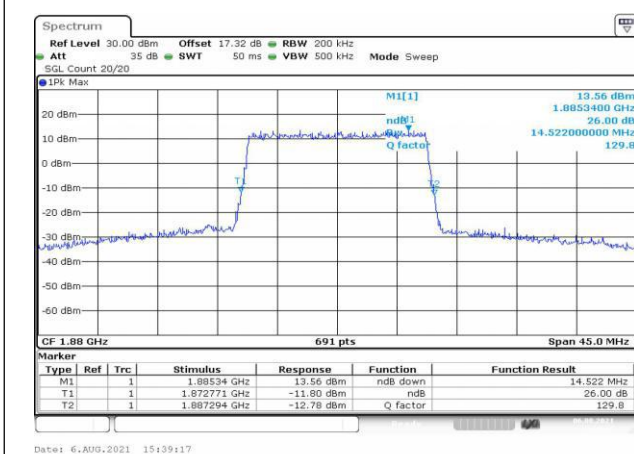
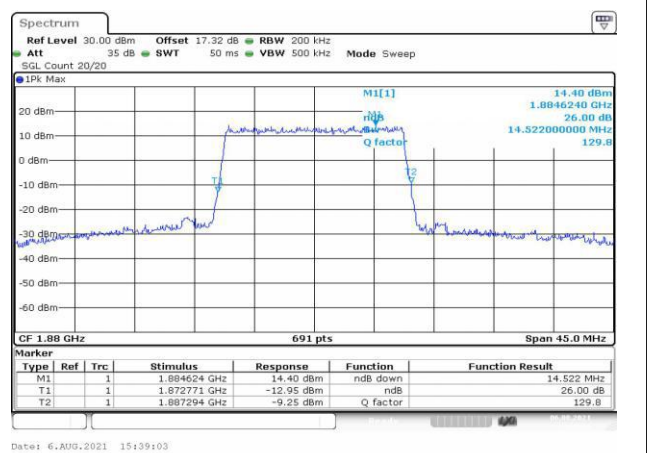
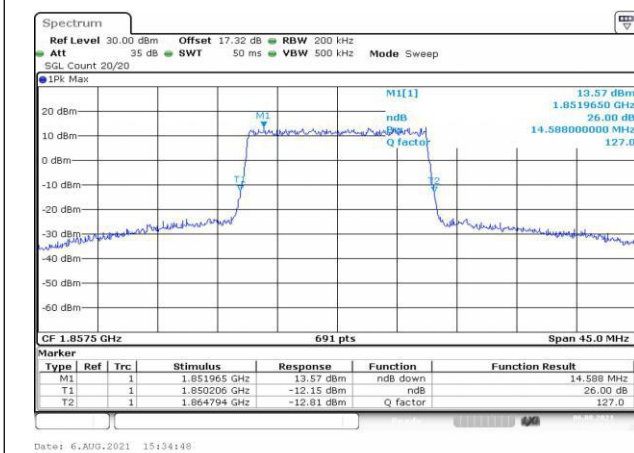
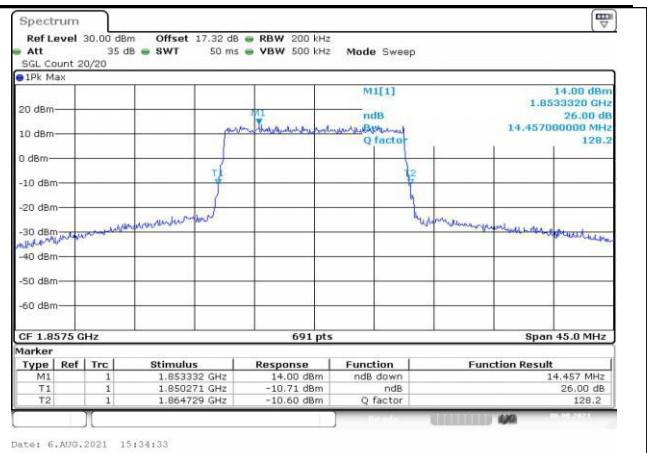
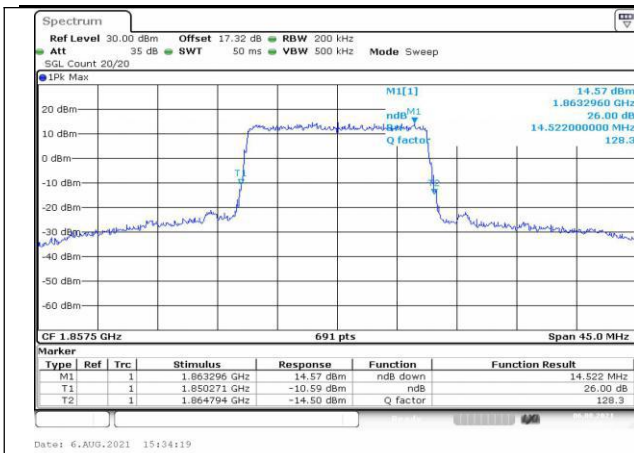


Fig.30





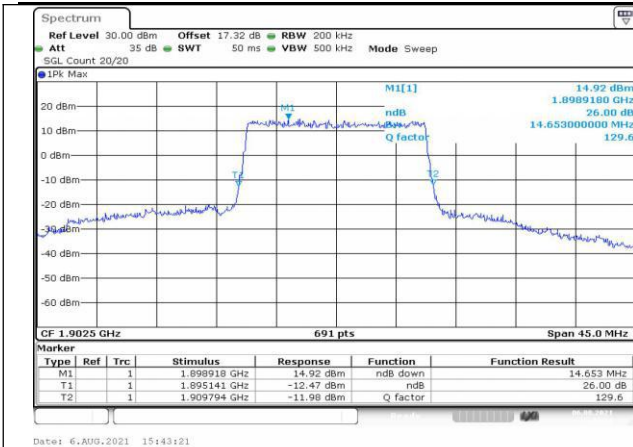


Fig.43

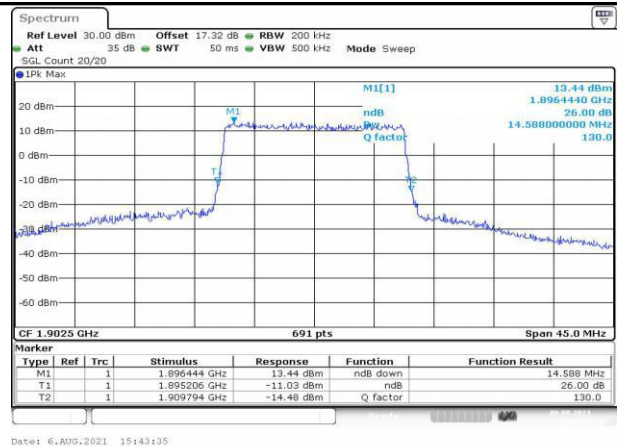


Fig.44

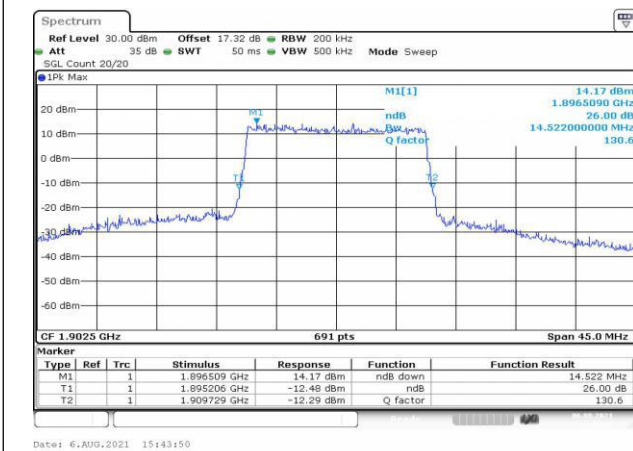


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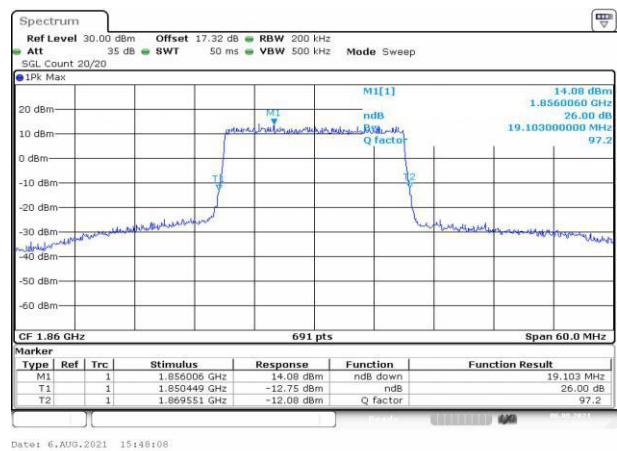


Fig.46

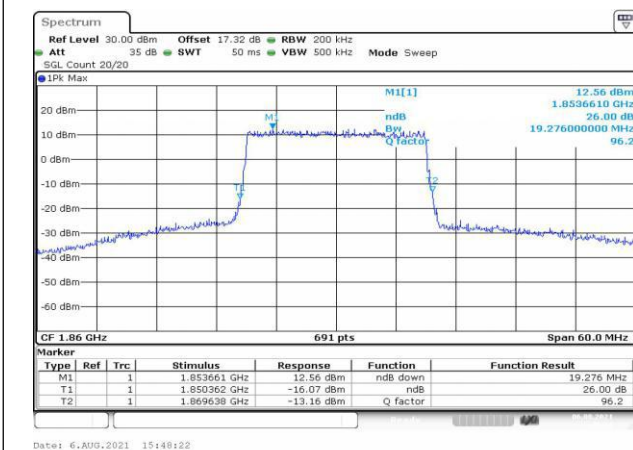


Fig.47

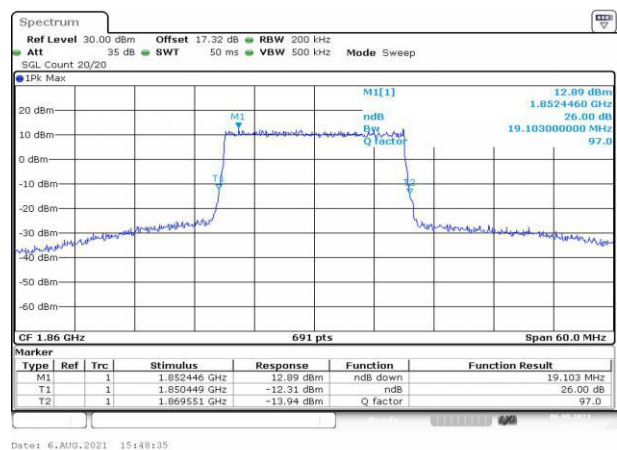


Fig.48