

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Rx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1710.7	19957	1.4	1	0	23.50	
				1	3	23.60	
				1	5	23.43	
				3	0	23.48	
				3	1	23.49	
				3	3	23.53	
	6	0		22.44			
	1732.5	20175		1	0	23.41	
				1	3	23.46	
				1	5	23.45	
				3	0	23.43	
				3	1	23.46	
				3	3	23.47	
	6	0		22.47			
	1754.3	20393		1	0	23.54	
				1	3	23.62	
				1	5	23.57	
				3	0	23.51	
				3	1	23.60	
				3	3	23.60	
	6	0		22.60			
	16QAM	1710.7		19957	1	0	22.54
					1	3	22.58
					1	5	22.66
3					0	22.81	
3					1	22.78	
3					3	22.77	
6		0		21.54			
1732.5		20175		1	0	22.62	
				1	3	22.71	
				1	5	22.63	
				3	0	22.51	
				3	1	22.73	
				3	3	22.60	
6		0		21.57			
1754.3		20393		1	0	22.78	
				1	3	22.79	
				1	5	22.97	
				3	0	22.75	
				3	1	22.72	
				3	3	22.73	
6		0		21.39			

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	22.03
				1	3	21.96
				1	5	21.96
				3	0	21.70
				3	1	21.77
				3	3	21.70
				6	0	20.66
	1732.5	20175		1	0	21.57
				1	3	21.60
				1	5	21.71
				3	0	21.57
				3	1	21.62
				3	3	21.73
				6	0	20.64
	1754.3	20393		1	0	21.49
				1	3	21.57
				1	5	21.59
				3	0	21.69
				3	1	21.72
				3	3	21.63
				6	0	20.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.51
				1	8	23.52
				1	14	23.60
				8	0	22.60
				8	4	22.67
				8	7	22.66
				15	0	22.64
	1732.5	20175		1	0	23.52
				1	8	23.54
				1	14	23.53
				8	0	22.58
				8	4	22.53
				8	7	22.48
				15	0	22.53
	1753.5	20385		1	0	23.59
				1	8	23.66
				1	14	23.65
				8	0	22.68
				8	4	22.74
				8	7	22.75
				15	0	22.74
16QAM	1711.5	19965	1	0	23.12	
			1	8	23.24	
			1	14	23.18	
			8	0	21.79	
			8	4	21.87	
			8	7	21.80	
			15	0	21.64	
	1732.5	20175	1	0	22.79	
			1	8	22.71	
			1	14	22.70	
			8	0	21.57	
			8	4	21.64	
			8	7	21.54	
			15	0	21.50	
	1753.5	20385	1	0	22.83	
			1	8	22.83	
			1	14	22.94	
			8	0	21.70	
			8	4	21.77	
			8	7	21.77	
			15	0	21.81	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.92
				1	8	21.92
				1	14	21.96
				8	0	20.83
				8	4	20.71
				8	7	20.77
				15	0	20.65
	1732.5	20175		1	0	21.61
				1	8	21.65
				1	14	21.58
				8	0	20.49
				8	4	20.40
				8	7	20.47
				15	0	20.75
	1753.5	20385		1	0	21.53
				1	8	21.66
				1	14	21.58
				8	0	20.67
				8	4	20.75
				8	7	20.76
				15	0	20.73

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1712.5	19975	5	1	0	23.58	
				1	12	23.48	
				1	24	23.55	
				12	0	22.58	
				12	7	22.67	
				12	13	22.66	
				25	0	22.67	
	1732.5	20175		1	0	23.39	
				1	12	23.43	
				1	24	23.46	
				12	0	22.48	
				12	7	22.50	
				12	13	22.49	
				25	0	22.48	
	1752.5	20375		1	0	23.49	
				1	12	23.75	
				1	24	23.54	
				12	0	22.69	
				12	7	22.78	
				12	13	22.78	
				25	0	22.78	
	16QAM	1712.5		19975	1	0	22.30
					1	12	22.83
					1	24	22.57
12					0	21.56	
12					7	21.63	
12					13	21.62	
25					0	21.68	
1732.5		20175	1	0	22.47		
			1	12	22.39		
			1	24	22.57		
			12	0	21.48		
			12	7	21.38		
			12	13	21.38		
			25	0	21.46		
1752.5		20375	1	0	22.99		
			1	12	23.04		
			1	24	22.94		
			12	0	21.78		
			12	7	21.83		
			12	13	21.87		
25	0	21.76					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.59
				1	12	21.68
				1	24	21.69
				12	0	20.73
				12	7	20.77
				12	13	20.80
				25	0	20.67
	1732.5	20175		1	0	21.43
				1	12	21.47
				1	24	21.51
				12	0	20.51
				12	7	20.42
				12	13	20.48
				25	0	20.49
	1752.5	20375		1	0	21.70
				1	12	21.88
				1	24	21.95
				12	0	20.67
				12	7	20.88
				12	13	20.89
				25	0	20.78

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1715	20000	10	1	0	23.47	
				1	25	23.42	
				1	49	23.44	
				25	0	22.62	
				25	12	22.54	
				25	25	22.56	
				50	0	22.50	
	1732.5	20175		1	0	23.37	
				1	25	23.49	
				1	49	23.54	
				25	0	22.52	
				25	12	22.53	
				25	25	22.55	
				50	0	22.49	
	1750	20350		1	0	23.46	
				1	25	23.67	
				1	49	23.60	
				25	0	22.63	
				25	12	22.78	
				25	25	22.80	
				50	0	22.76	
	16QAM	1715		20000	1	0	22.72
					1	25	22.58
					1	49	22.68
25					0	21.69	
25					12	21.66	
25					25	21.63	
50					0	21.38	
1732.5		20175		1	0	23.13	
				1	25	23.23	
			1	49	23.34		
			25	0	21.59		
			25	12	21.56		
			25	25	21.50		
			50	0	21.46		
1750		20350	1	0	22.92		
			1	25	22.92		
			1	49	22.77		
			25	0	21.70		
			25	12	21.77		
			25	25	21.66		
			50	0	21.66		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.42
				1	25	21.43
				1	49	21.31
				25	0	20.71
				25	12	20.66
				25	25	20.65
				50	0	20.60
	1732.5	20175		1	0	22.05
				1	25	21.74
				1	49	21.79
				25	0	20.57
				25	12	20.48
				25	25	20.57
				50	0	20.49
	1750	20350		1	0	21.40
				1	25	21.62
				1	49	21.86
				25	0	20.71
				25	12	20.90
				25	25	20.84
				50	0	20.73

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.48
				1	37	23.27
				1	74	23.26
				36	0	22.53
				36	29	22.41
				36	30	22.27
				75	0	22.46
	1732.5	20175		1	0	23.25
				1	37	23.36
				1	74	23.33
				36	0	22.48
				36	29	22.44
				36	30	22.31
				75	0	22.35
	1747.5	20325		1	0	23.46
				1	37	23.51
				1	74	23.51
				36	0	22.65
				36	29	22.66
				36	30	22.65
				75	0	22.60
16QAM	1717.5	20025	1	0	23.06	
			1	37	22.94	
			1	74	22.77	
			36	0	21.52	
			36	29	21.32	
			36	30	21.41	
			75	0	21.42	
	1732.5	20175	1	0	23.11	
			1	37	23.12	
			1	74	23.07	
			36	0	21.50	
			36	29	21.44	
			36	30	21.46	
			75	0	21.40	
	1747.5	20325	1	0	22.78	
			1	37	22.97	
			1	74	23.07	
			36	0	21.61	
			36	29	21.63	
			36	30	21.63	
			75	0	21.62	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.83
				1	37	21.63
				1	74	21.67
				36	0	20.59
				36	29	20.40
				36	30	20.37
				75	0	20.55
	1732.5	20175		1	0	21.76
				1	37	21.73
				1	74	21.77
				36	0	20.55
				36	29	20.41
				36	30	20.44
				75	0	20.36
	1747.5	20325		1	0	21.53
				1	37	21.54
				1	74	21.67
				36	0	20.66
				36	29	20.67
				36	30	20.68
				75	0	20.63

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.42
				1	49	23.29
				1	99	23.32
				50	0	22.56
				50	24	22.42
				50	50	22.37
				100	0	22.43
	1732.5	20175		1	0	23.48
				1	49	23.48
				1	99	23.48
				50	0	22.47
				50	24	22.33
				50	50	22.38
				100	0	22.45
	1745	20300		1	0	23.44
				1	49	23.57
				1	99	23.45
				50	0	22.56
				50	24	22.59
				50	50	22.55
				100	0	22.57
16QAM	1720	20050	1	0	22.83	
			1	49	22.73	
			1	99	22.79	
			50	0	21.54	
			50	24	21.33	
			50	50	21.26	
			100	0	21.44	
	1732.5	20175	1	0	22.88	
			1	49	22.81	
			1	99	22.77	
			50	0	21.53	
			50	24	21.43	
			50	50	21.32	
			100	0	21.31	
	1745	20300	1	0	23.08	
			1	49	22.82	
			1	99	22.53	
			50	0	21.56	
			50	24	21.57	
			50	50	21.52	
			100	0	21.61	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.65
				1	49	21.58
				1	99	21.68
				50	0	20.59
				50	24	20.38
				50	50	20.38
				100	0	20.48
	1732.5	20175		1	0	21.79
				1	49	21.95
				1	99	21.74
				50	0	20.53
				50	24	20.38
				50	50	20.43
				100	0	20.39
	1745	20300		1	0	21.45
				1	49	21.37
				1	99	21.39
				50	0	20.59
				50	24	20.64
				50	50	20.56
				100	0	20.55

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.082	Fig.1	1.082	Fig.2	1.088	Fig.3
	1732.5	20175		6	0	1.082	Fig.4	1.076	Fig.5	1.082	Fig.6
	1754.3	20393		6	0	1.076	Fig.7	1.082	Fig.8	1.082	Fig.9
	1711.5	19965	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	1732.5	20175		15	0	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	1753.5	20385		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	1712.5	19975	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	1732.5	20175		25	0	4.493	Fig.22	4.472	Fig.23	4.472	Fig.24
	1752.5	20375		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1715	20000	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	1732.5	20175		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	1750	20350		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36
	1717.5	20025	15	75	0	13.415	Fig.37	13.415	Fig.38	13.415	Fig.39
	1732.5	20175		75	0	13.415	Fig.40	13.415	Fig.41	13.415	Fig.42
	1747.5	20325		75	0	13.415	Fig.43	13.415	Fig.44	13.480	Fig.45
	1720	20050	20	100	0	17.887	Fig.46	17.974	Fig.47	17.887	Fig.48
	1732.5	20175		100	0	17.887	Fig.49	17.887	Fig.50	17.887	Fig.51
	1745	20300		100	0	17.887	Fig.52	17.887	Fig.53	17.887	Fig.54

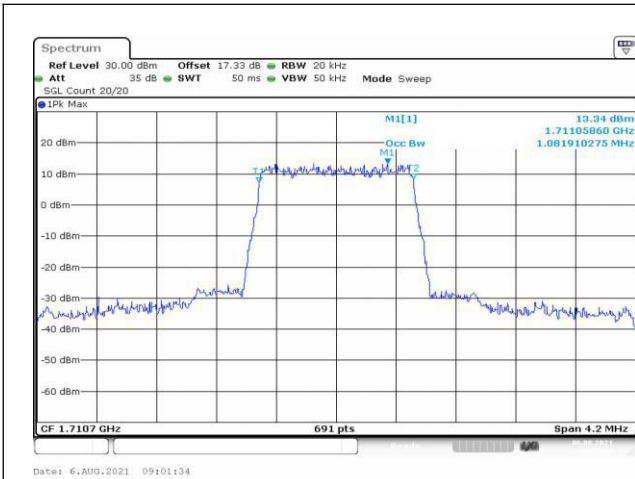


Fig.1

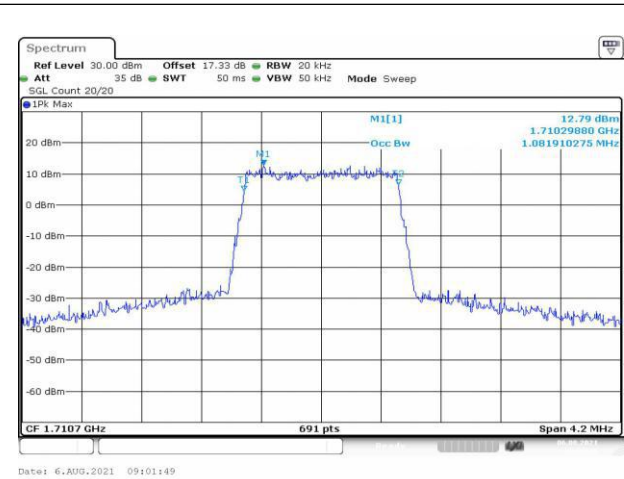


Fig.2

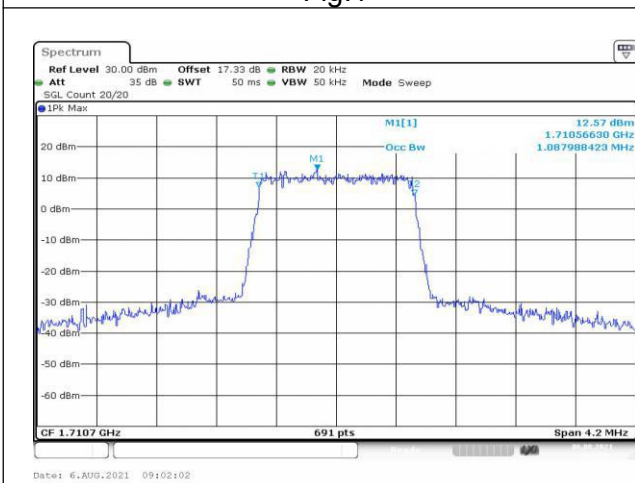


Fig.3

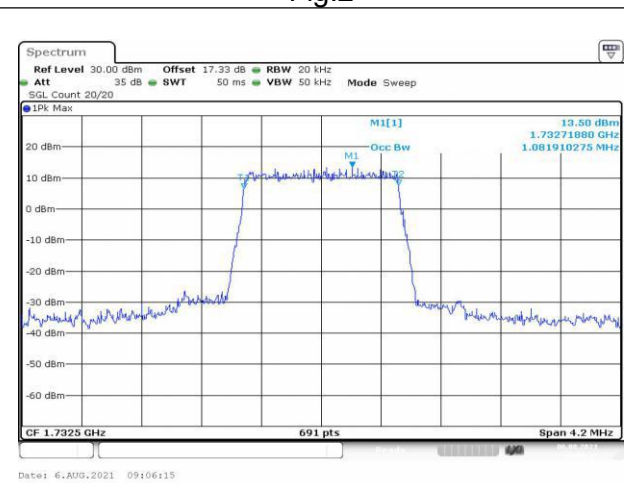


Fig.4

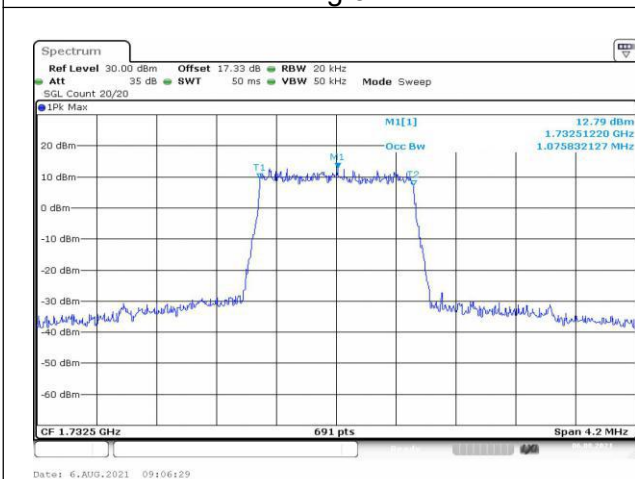


Fig.5

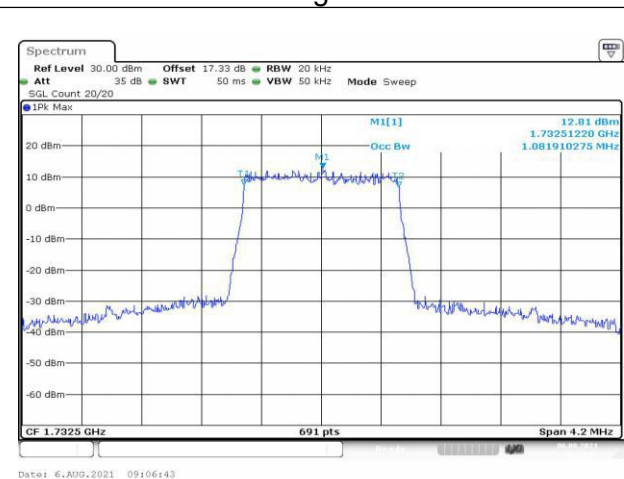
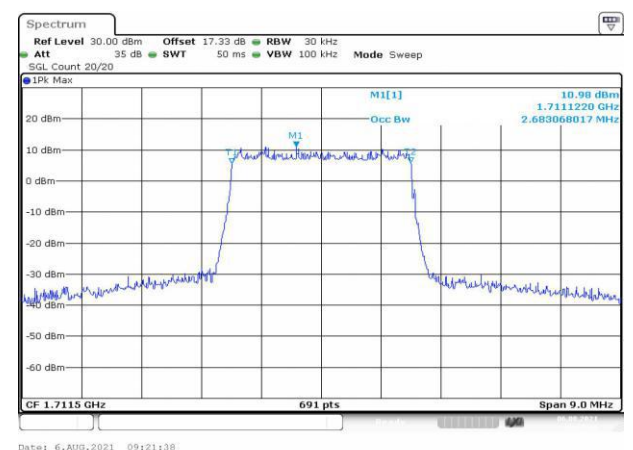
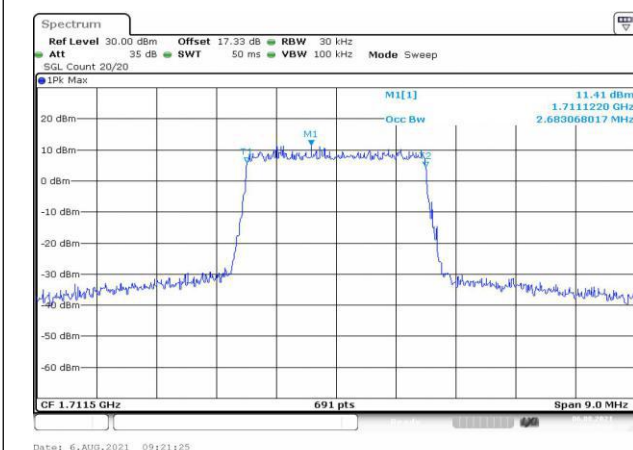
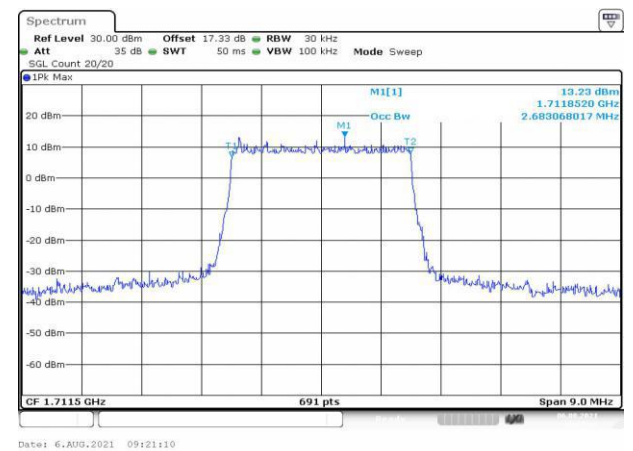
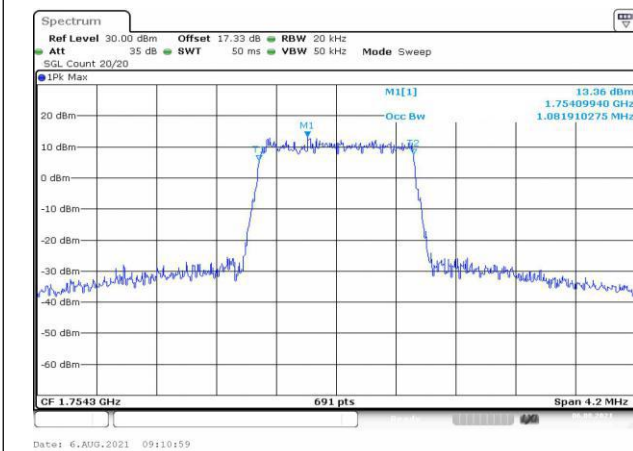
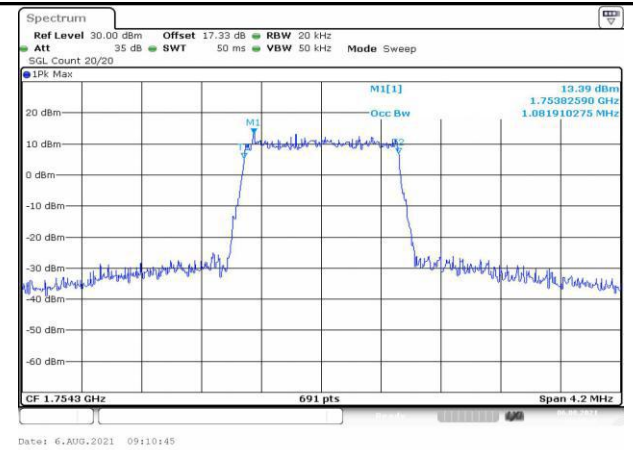
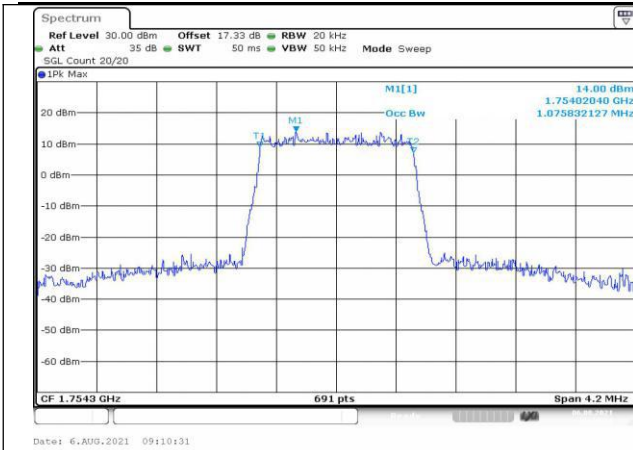


Fig.6



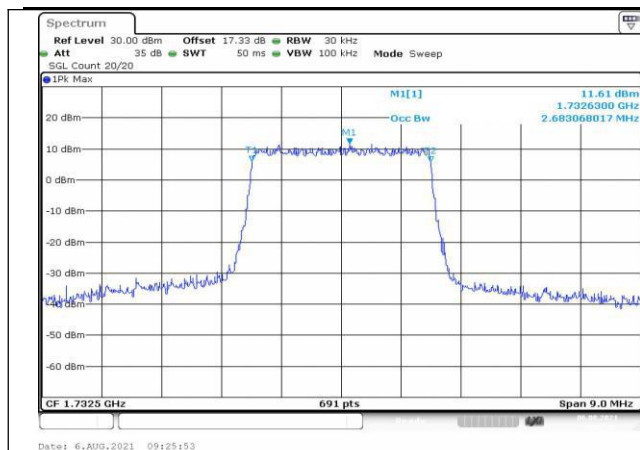


Fig.13

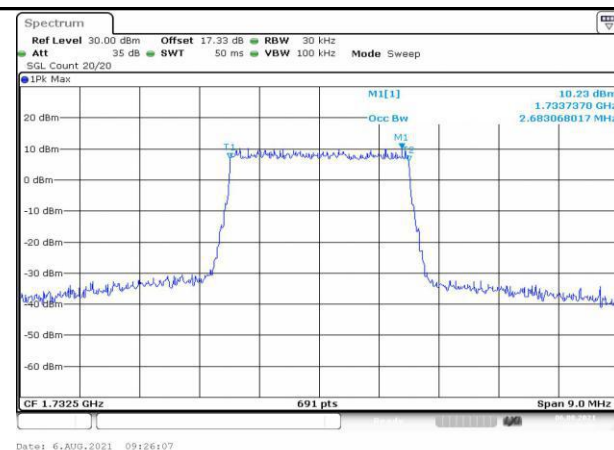


Fig.14

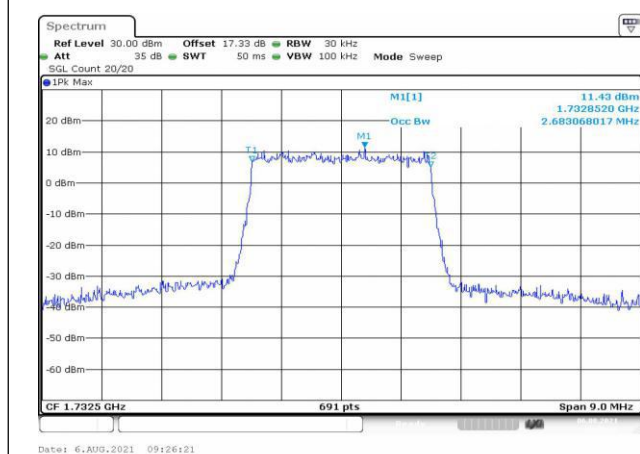


Fig.15

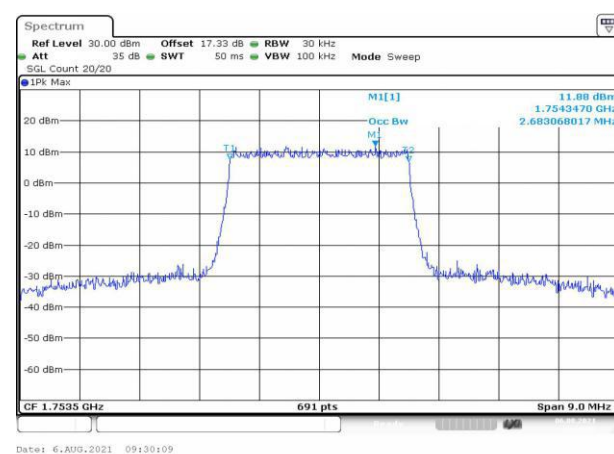


Fig.16

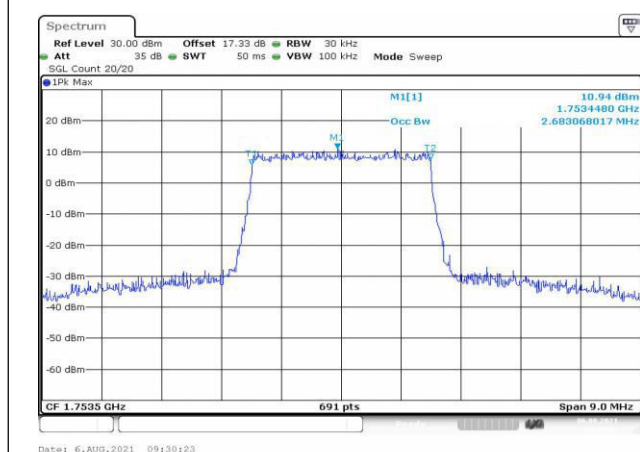


Fig.17

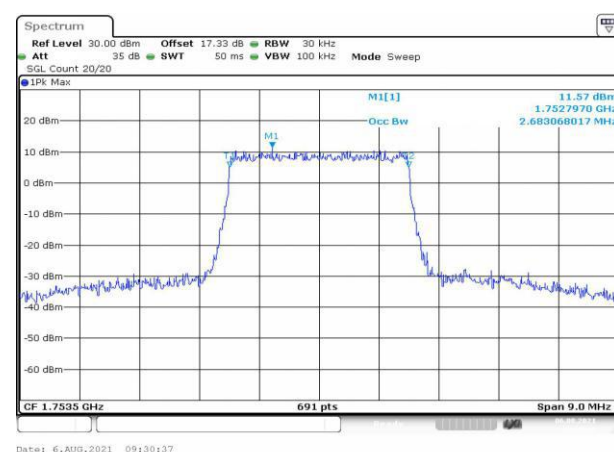
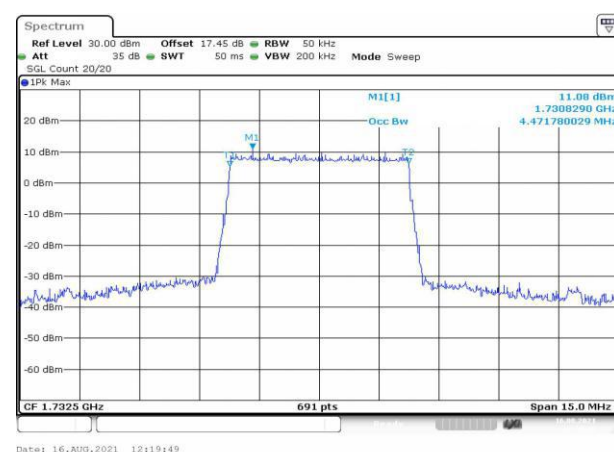
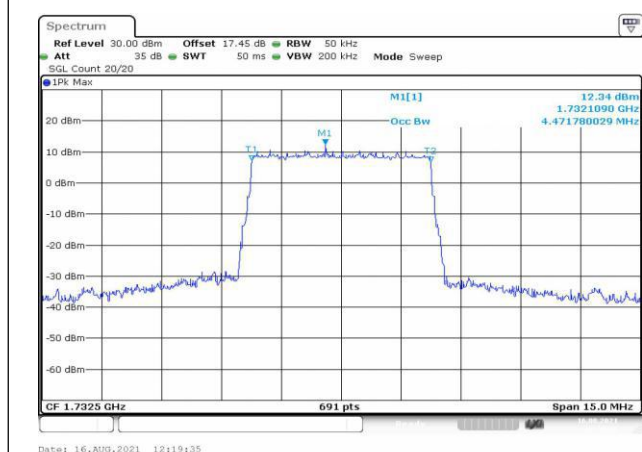
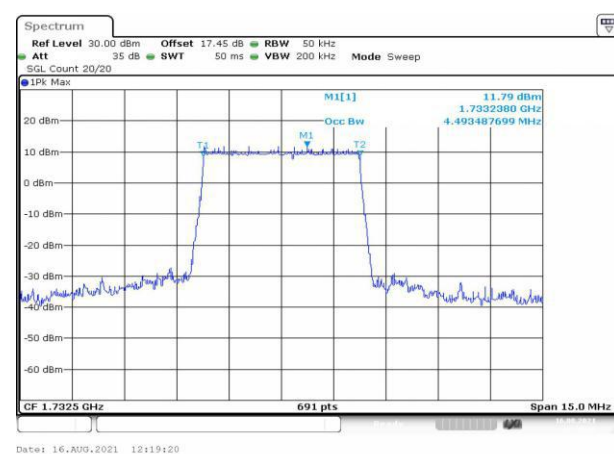
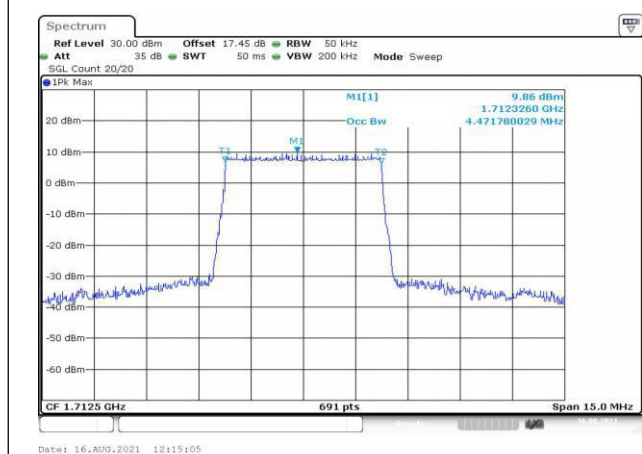
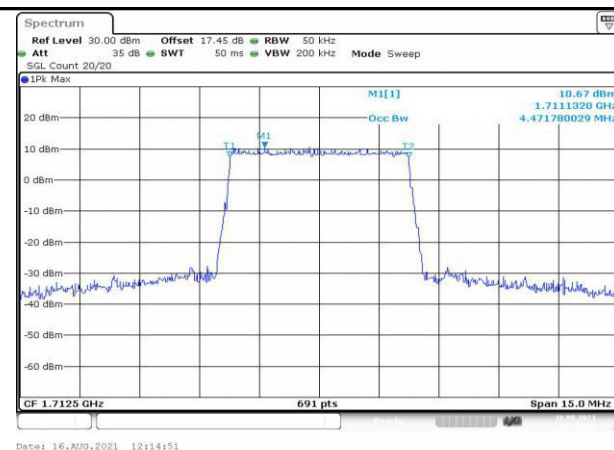
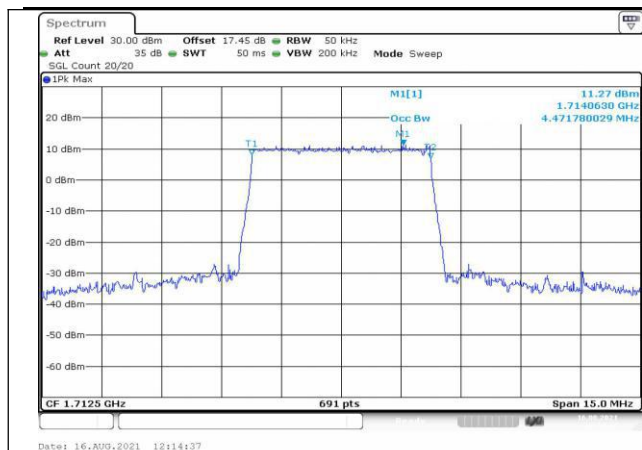
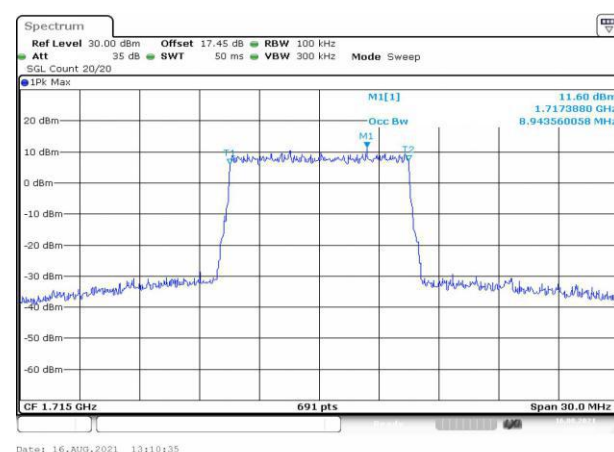
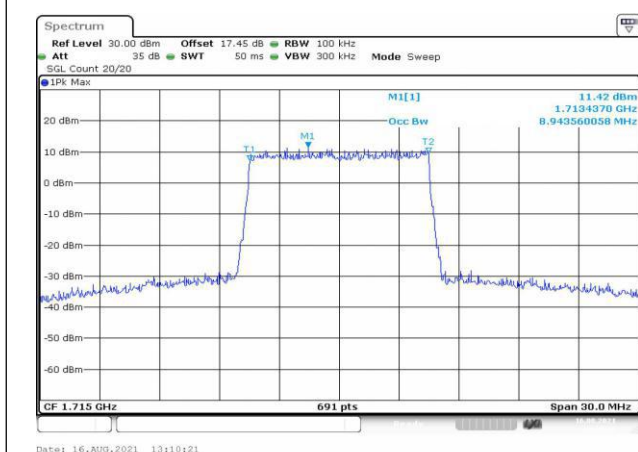
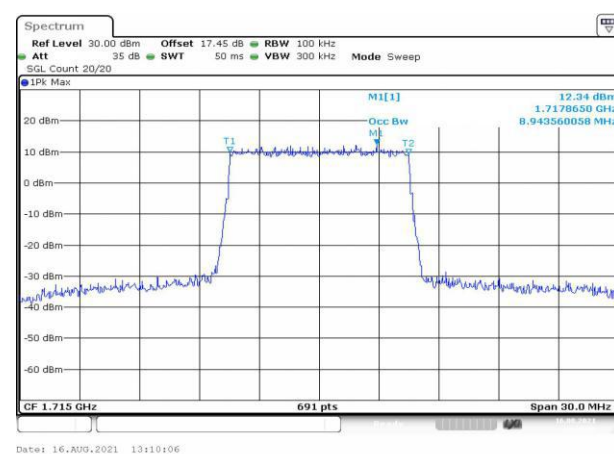
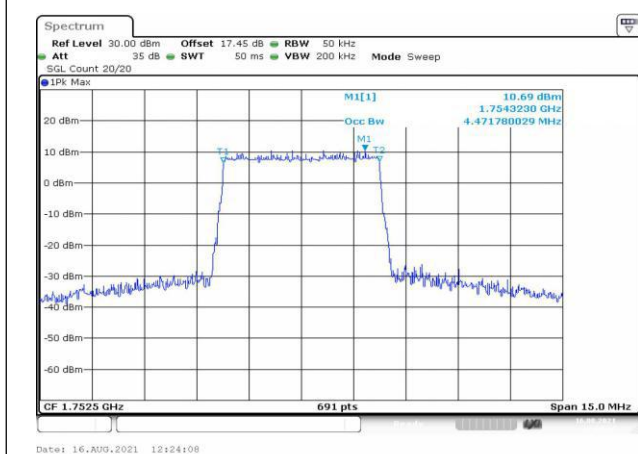
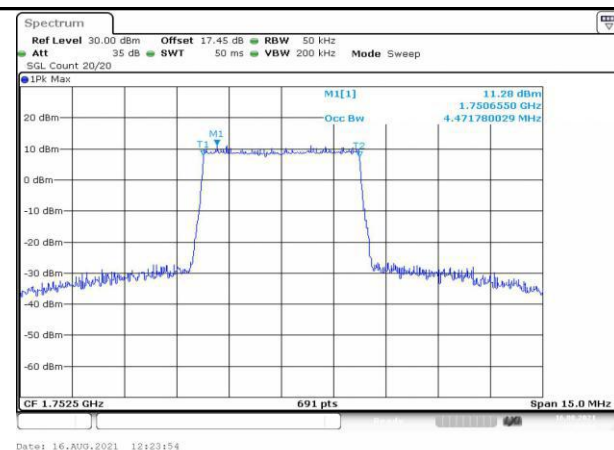
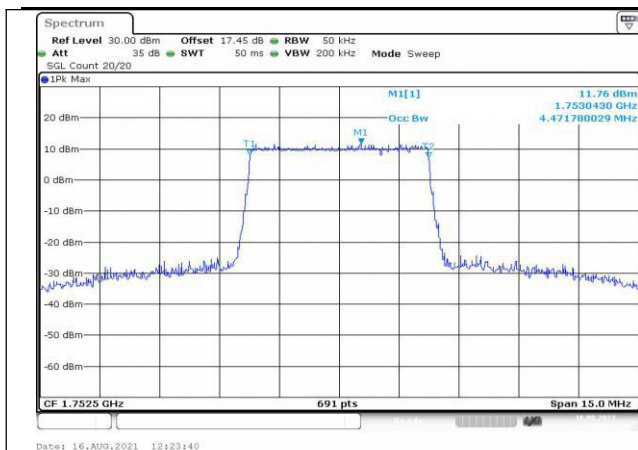
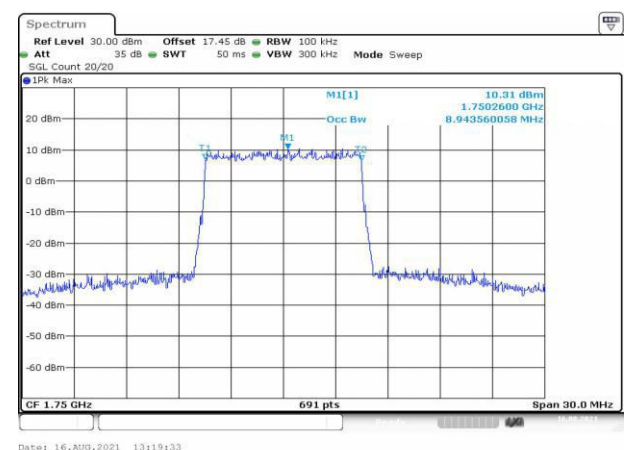
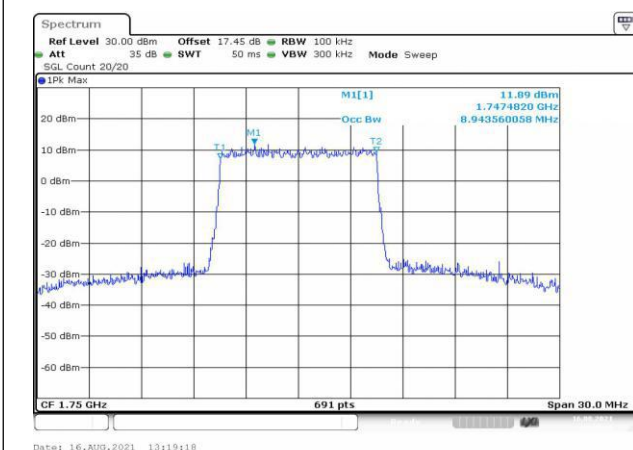
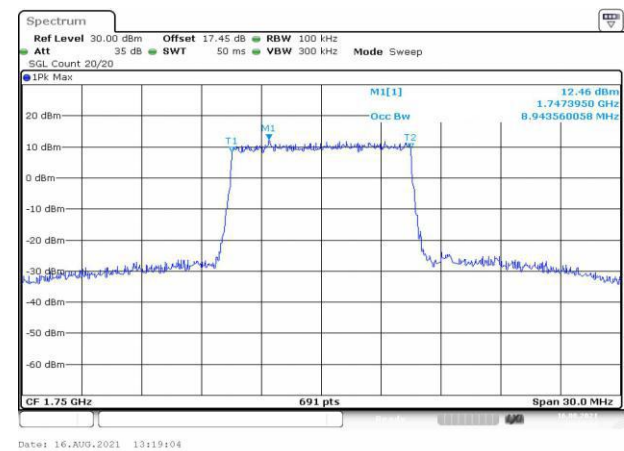
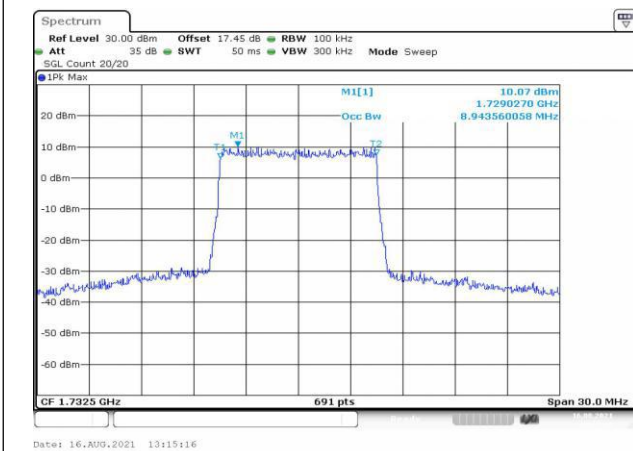
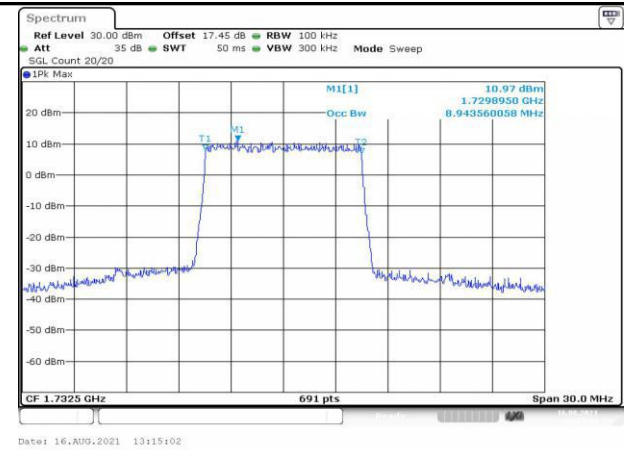
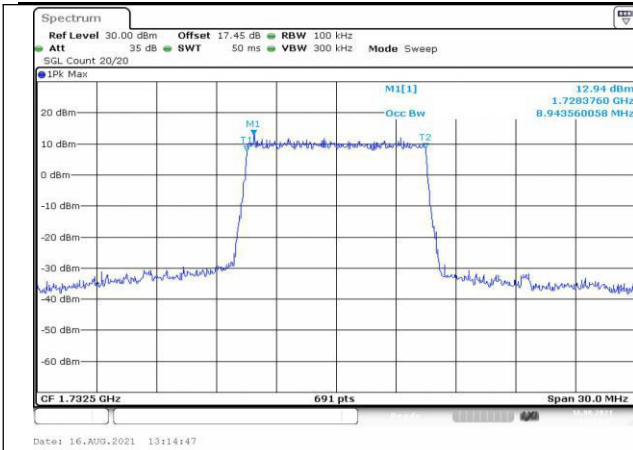


Fig.18







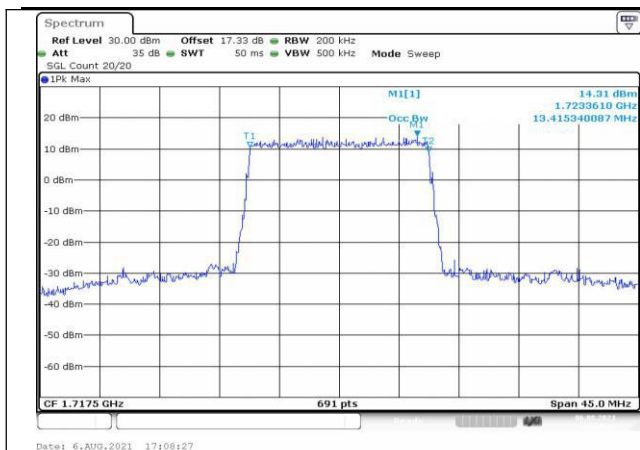


Fig.37

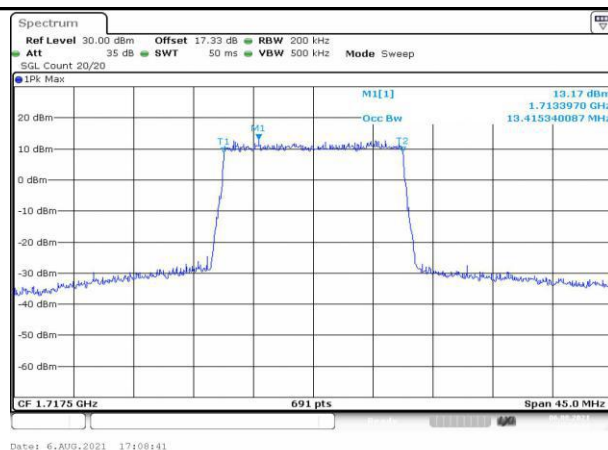


Fig.38

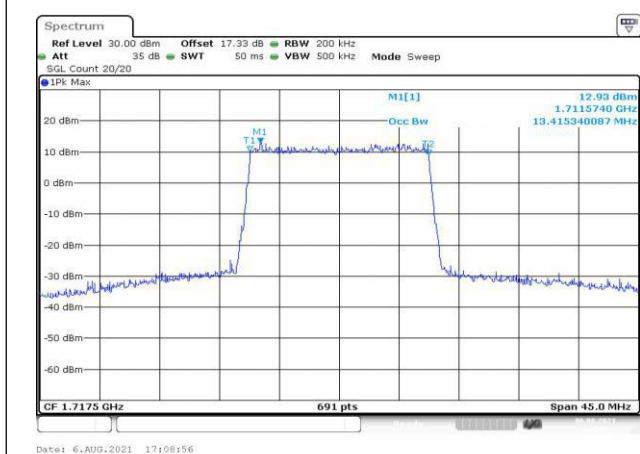


Fig.39

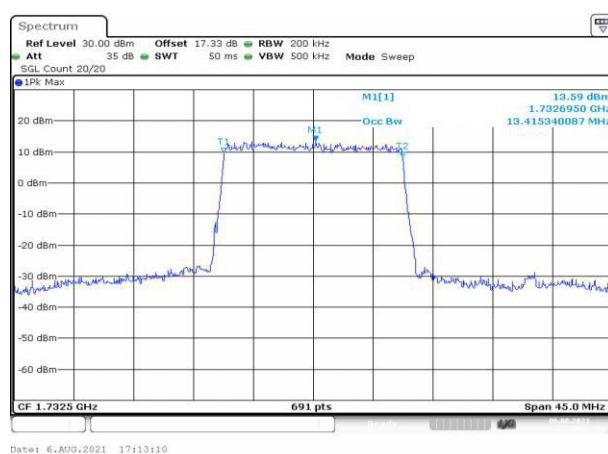


Fig.40

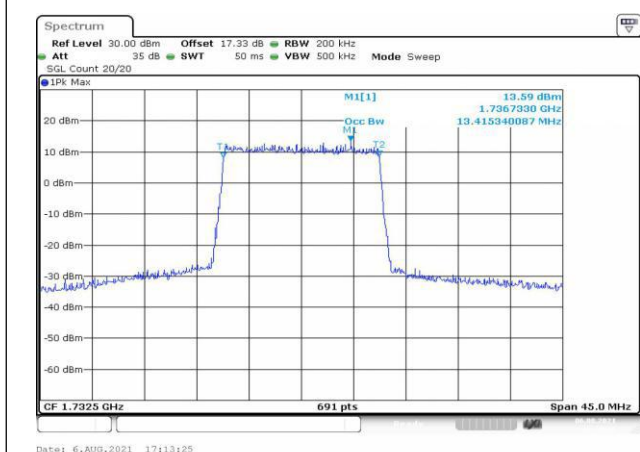


Fig.41

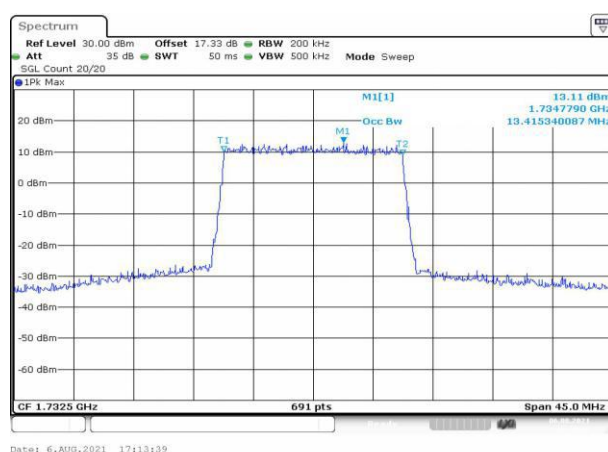
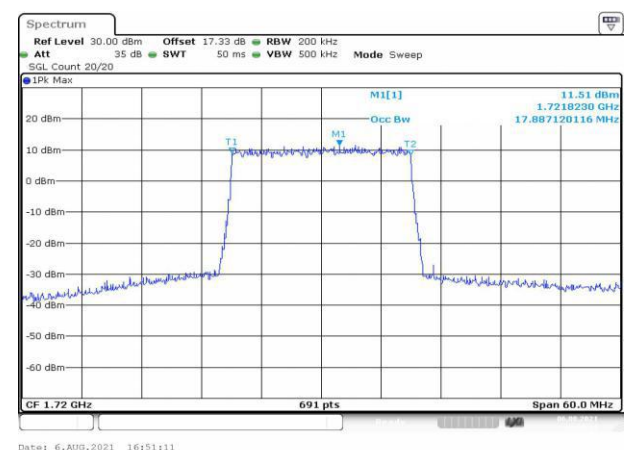
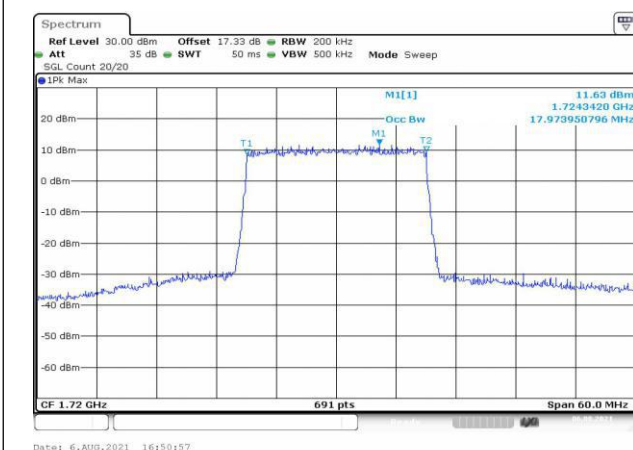
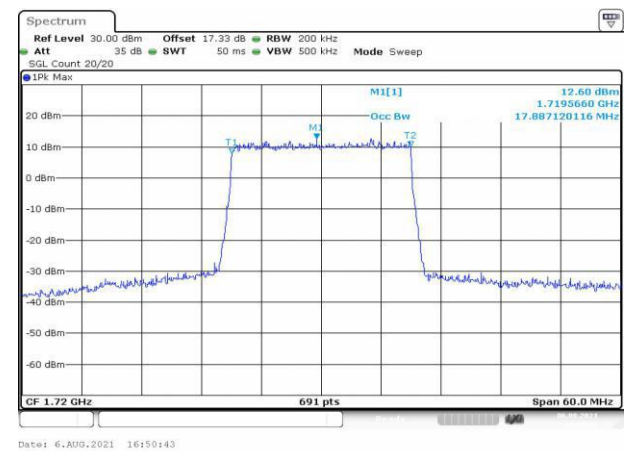
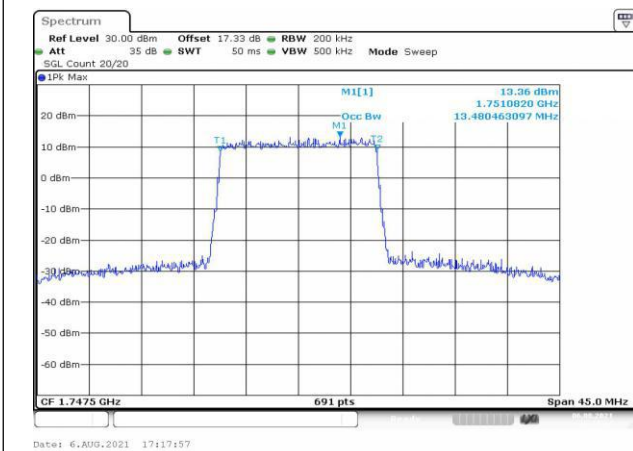
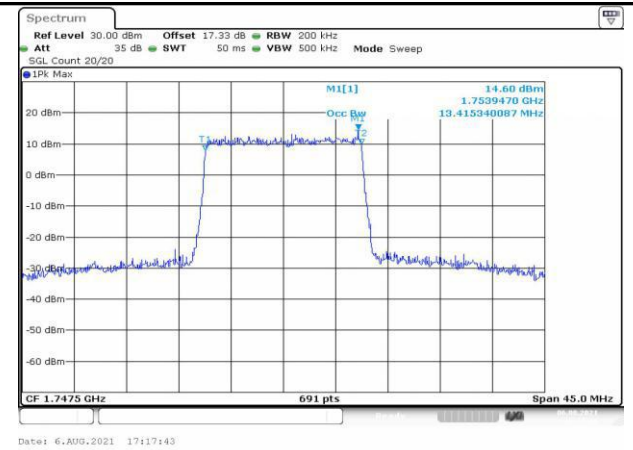
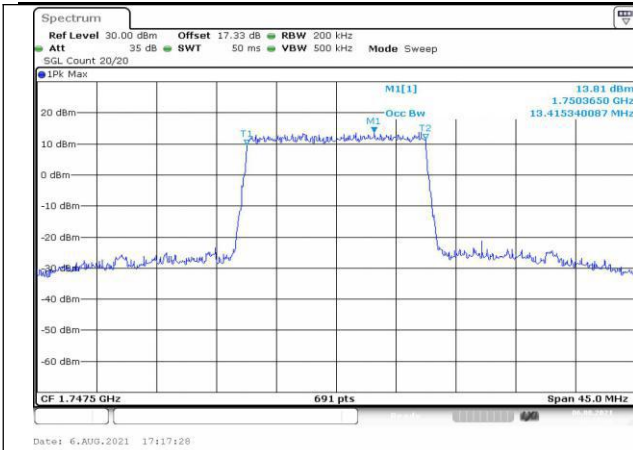


Fig.42



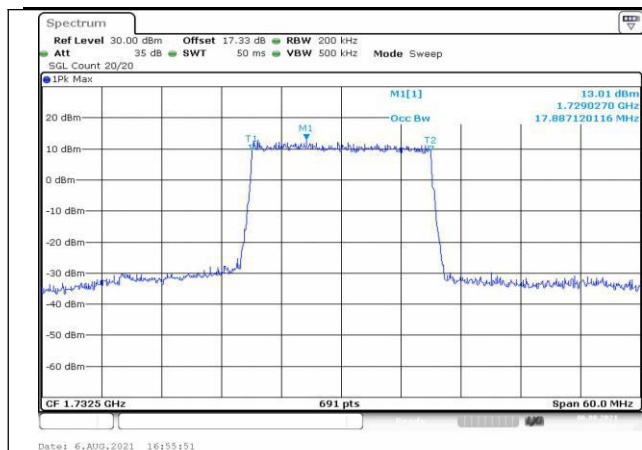


Fig.49

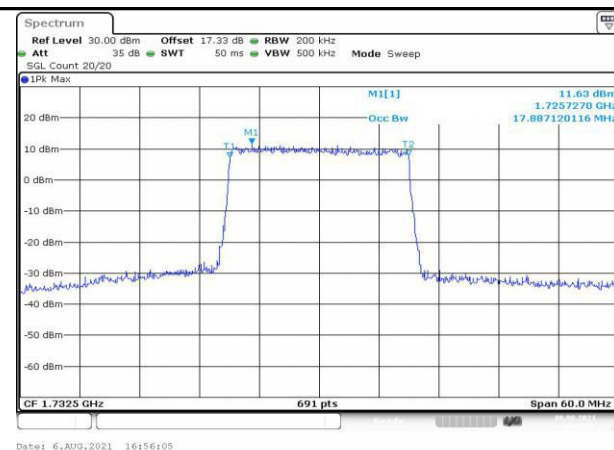


Fig.50

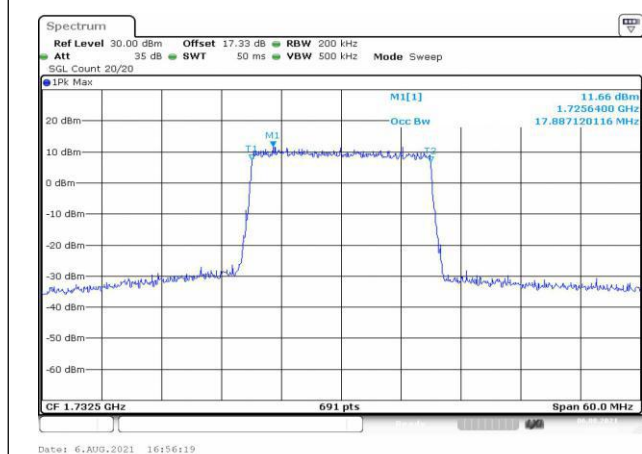


Fig.51

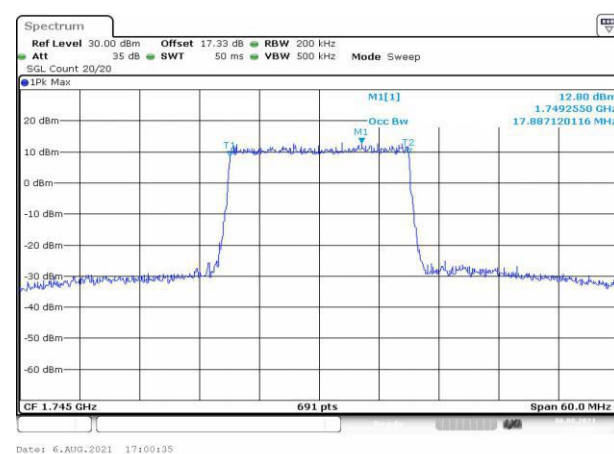


Fig.52

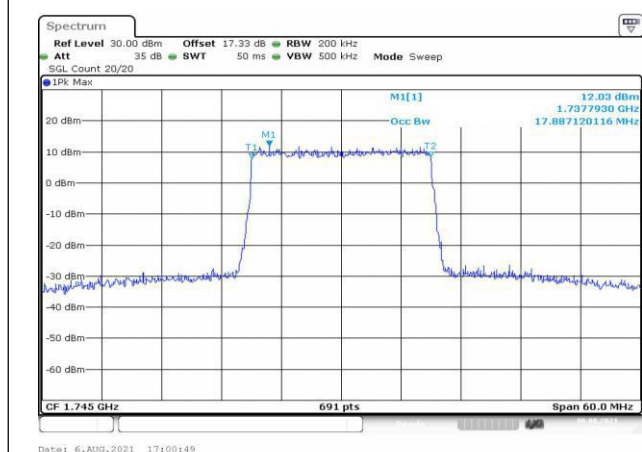


Fig.53

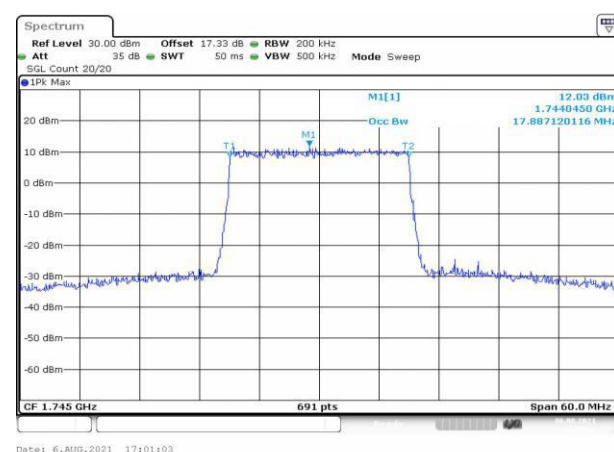


Fig.54

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	
4	1710.7	19957	1.4	6	0	1.222	Fig.1	1.210	Fig.2	1.228	Fig.3
	1732.5	20175		6	0	1.222	Fig.4	1.210	Fig.5	1.210	Fig.6
	1754.3	20393		6	0	1.210	Fig.7	1.216	Fig.8	1.228	Fig.9
	1711.5	19965	3	15	0	2.957	Fig.10	2.918	Fig.11	2.931	Fig.12
	1732.5	20175		15	0	2.904	Fig.13	2.931	Fig.14	2.957	Fig.15
	1753.5	20385		15	0	2.931	Fig.16	2.944	Fig.17	2.931	Fig.18
	1712.5	19975	5	25	0	4.841	Fig.19	4.906	Fig.20	4.863	Fig.21
	1732.5	20175		25	0	4.884	Fig.22	4.841	Fig.23	4.906	Fig.24
	1752.5	20375		25	0	4.841	Fig.25	4.863	Fig.26	4.884	Fig.27
	1715	20000	10	50	0	9.551	Fig.28	9.595	Fig.29	9.638	Fig.30
	1732.5	20175		50	0	9.638	Fig.31	9.638	Fig.32	9.595	Fig.33
	1750	20350		50	0	9.551	Fig.34	9.595	Fig.35	9.638	Fig.36
	1717.5	20025	15	75	0	14.522	Fig.37	14.457	Fig.38	14.588	Fig.39
	1732.5	20175		75	0	14.588	Fig.40	14.392	Fig.41	14.522	Fig.42
	1747.5	20325		75	0	14.588	Fig.43	14.392	Fig.44	14.457	Fig.45
	1720	20050	20	100	0	19.103	Fig.46	19.103	Fig.47	19.103	Fig.48
	1732.5	20175		100	0	18.929	Fig.49	19.103	Fig.50	19.103	Fig.51
	1745	20300		100	0	19.276	Fig.52	19.103	Fig.53	19.103	Fig.54

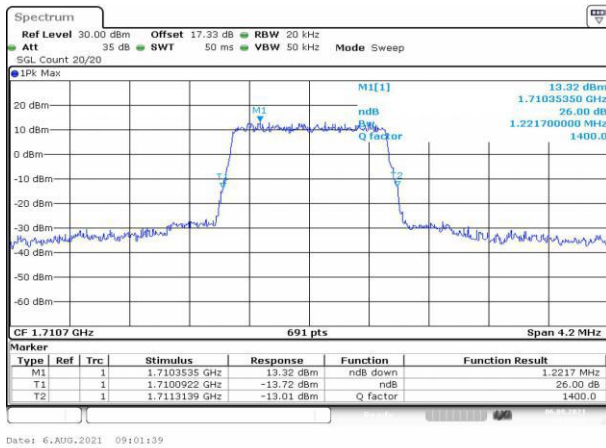


Fig.1

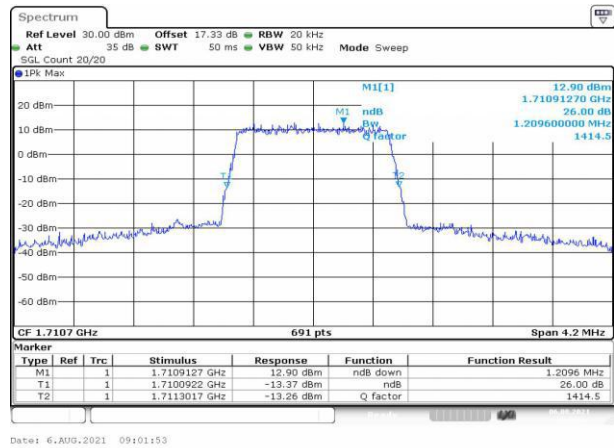


Fig.2

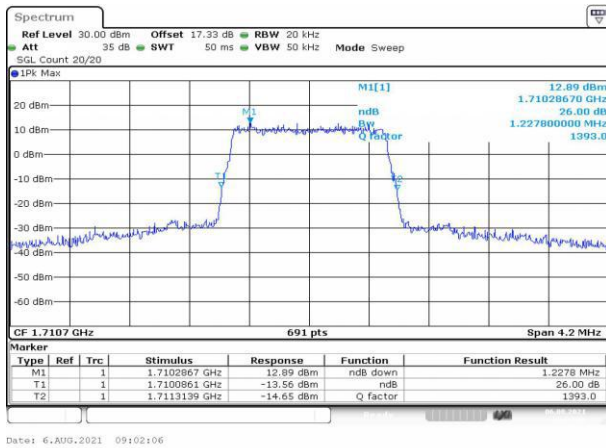


Fig.3

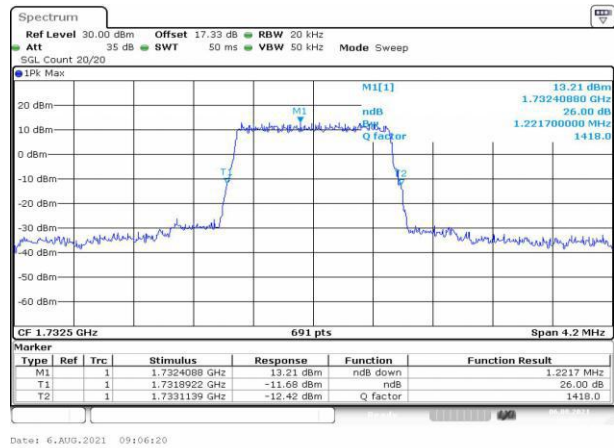


Fig.4

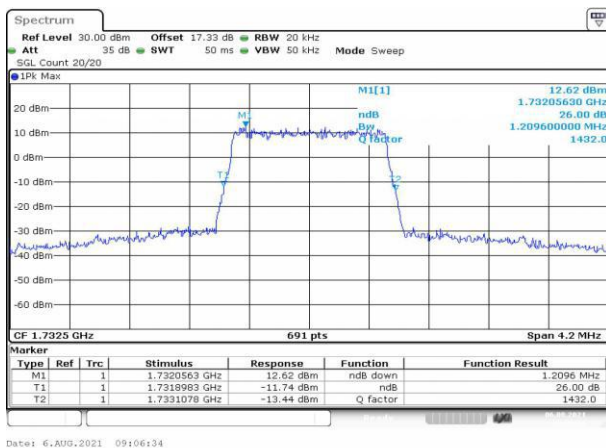


Fig.5

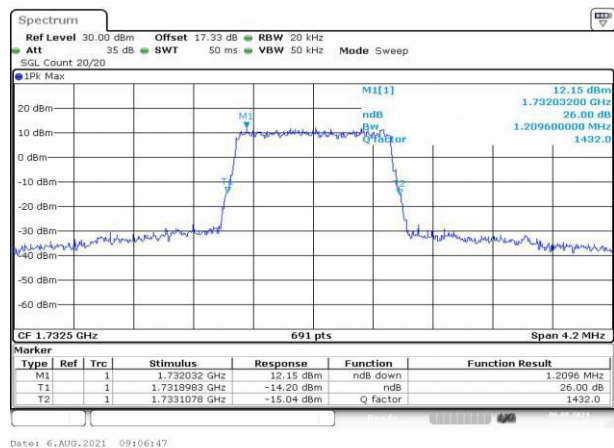
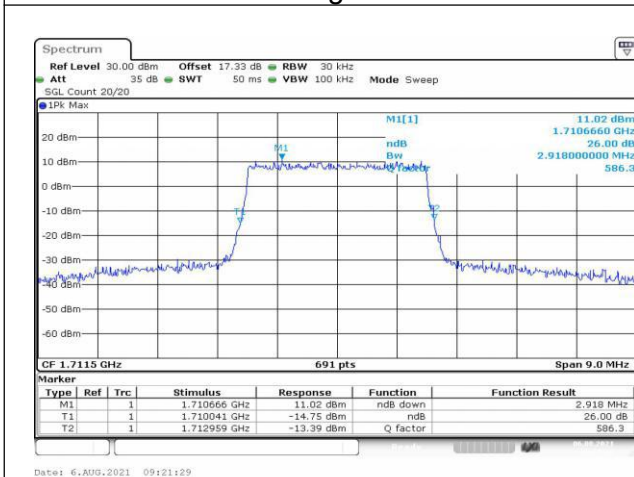
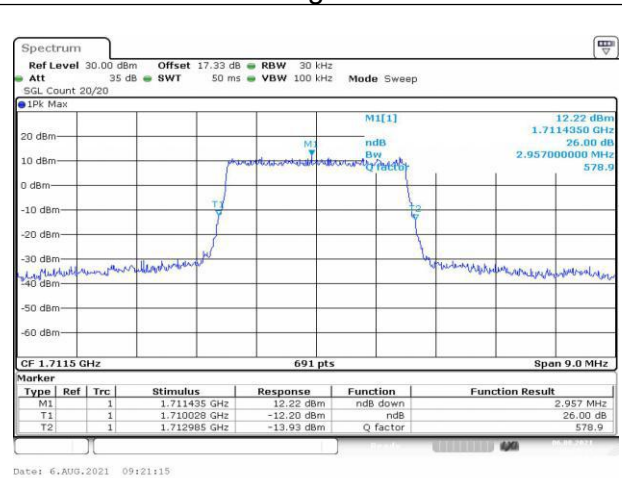
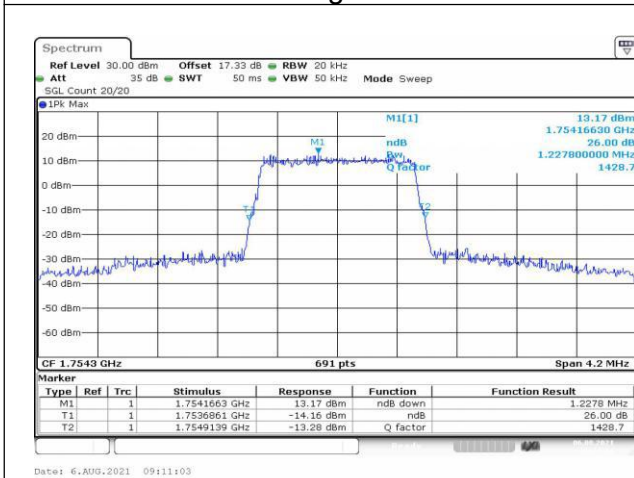
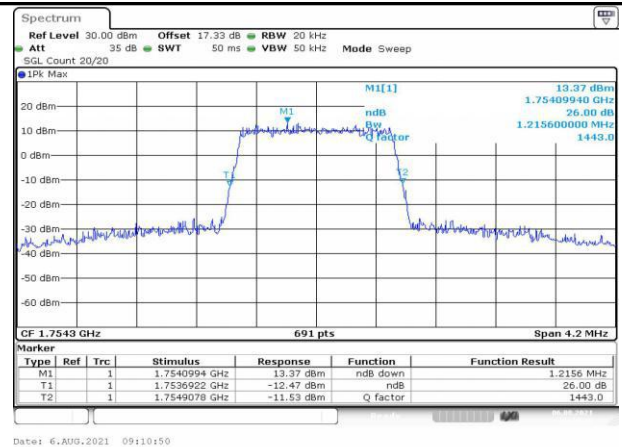
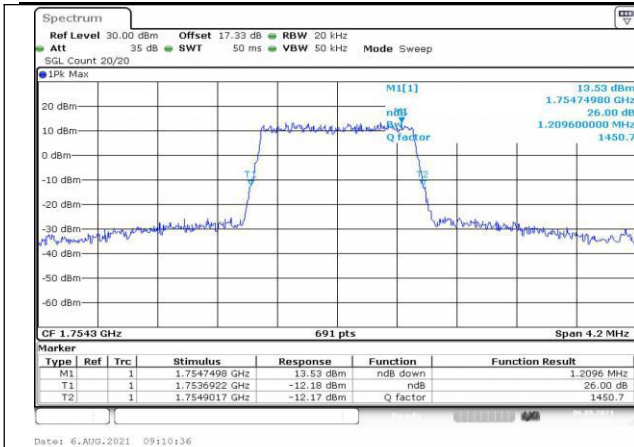


Fig.6



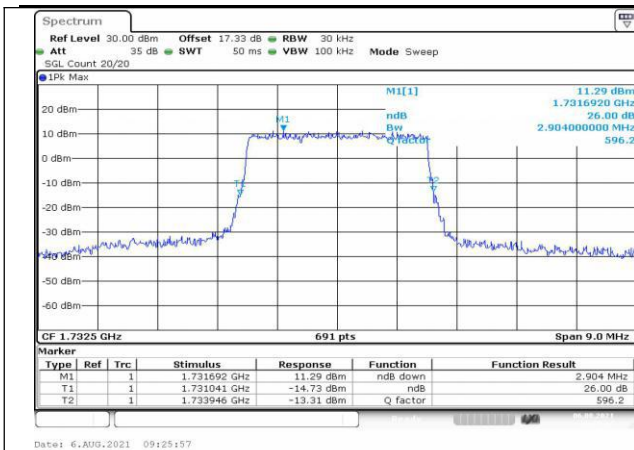


Fig.13

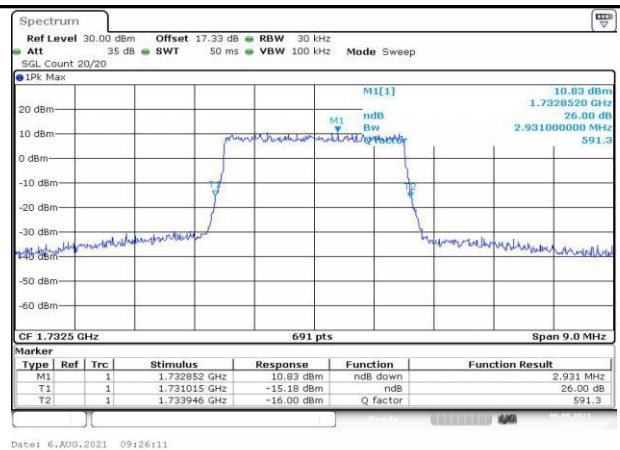


Fig.14

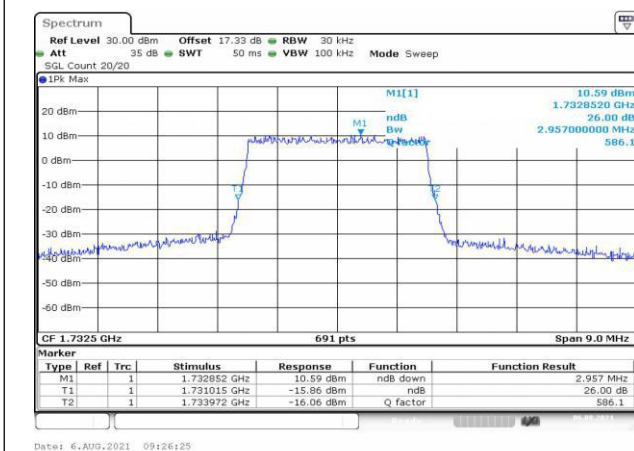


Fig.15

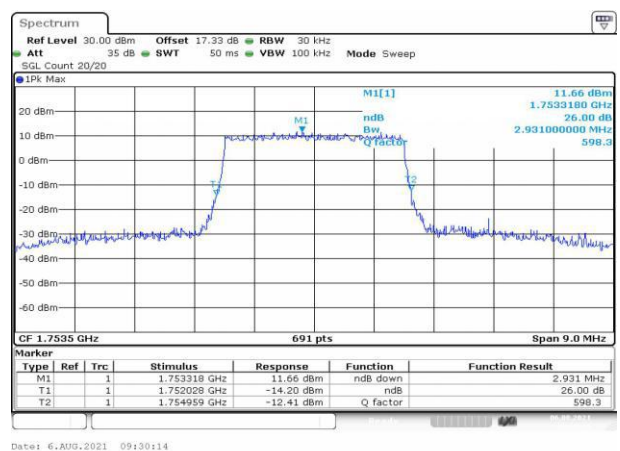


Fig.16

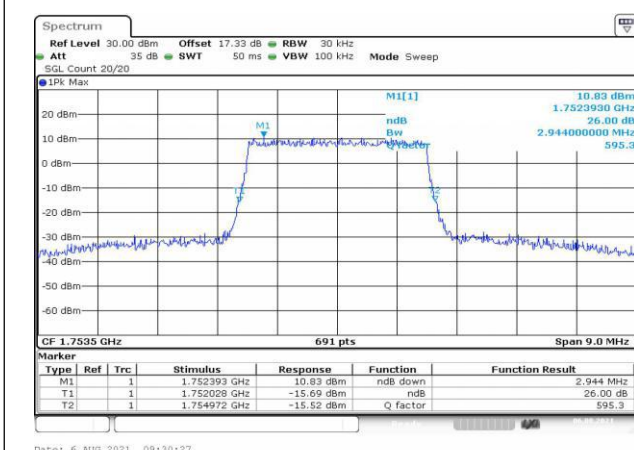


Fig.17

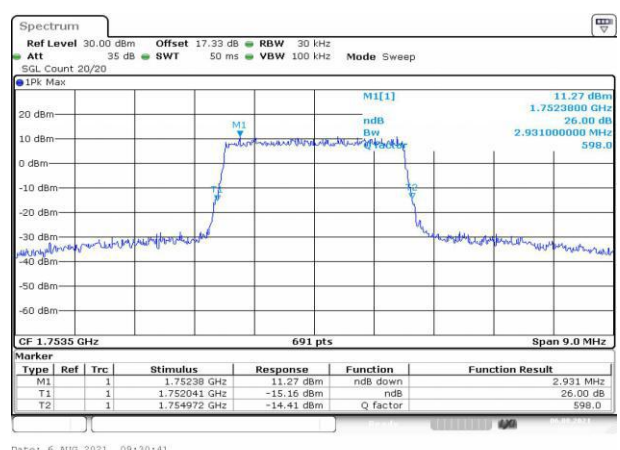
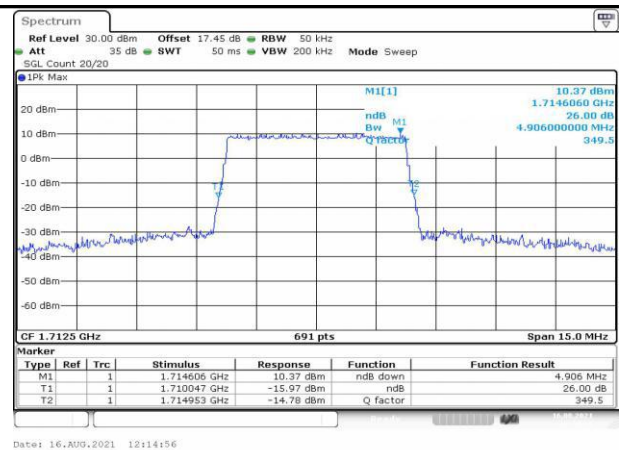
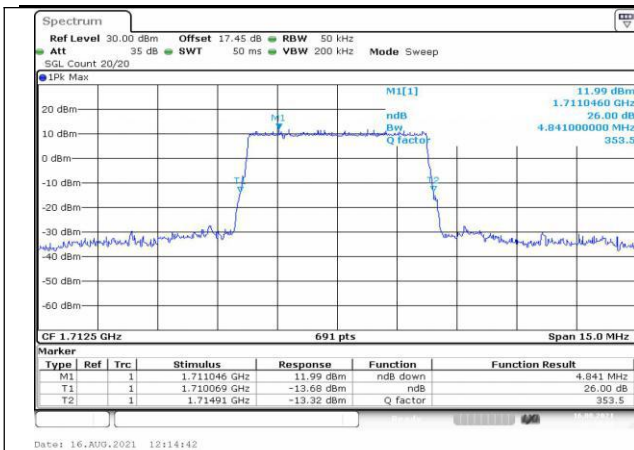
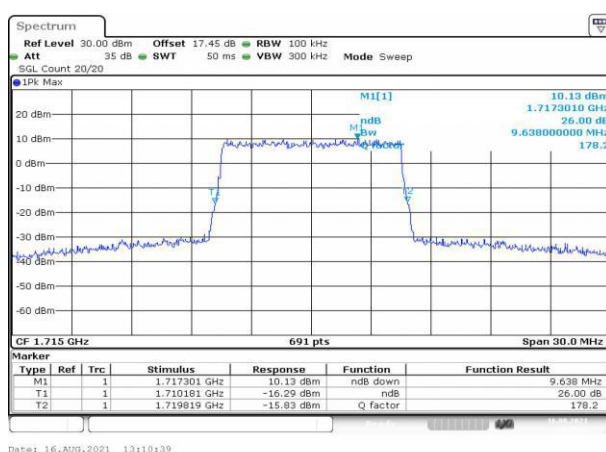
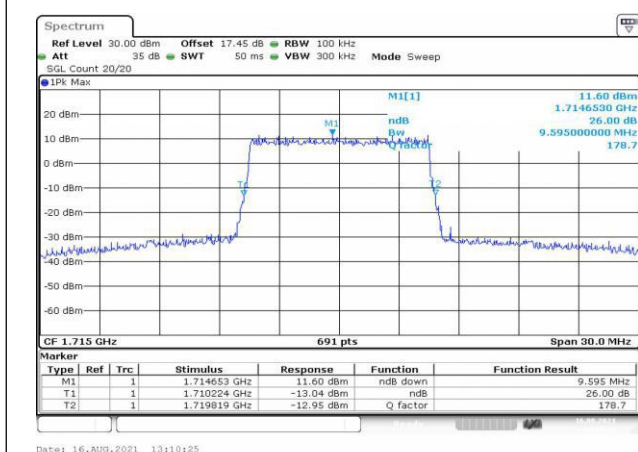
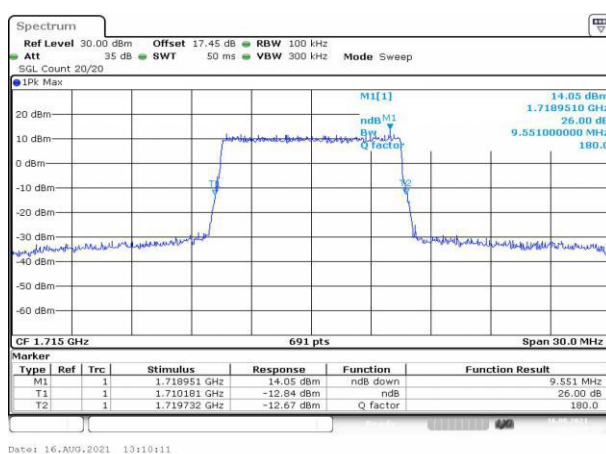
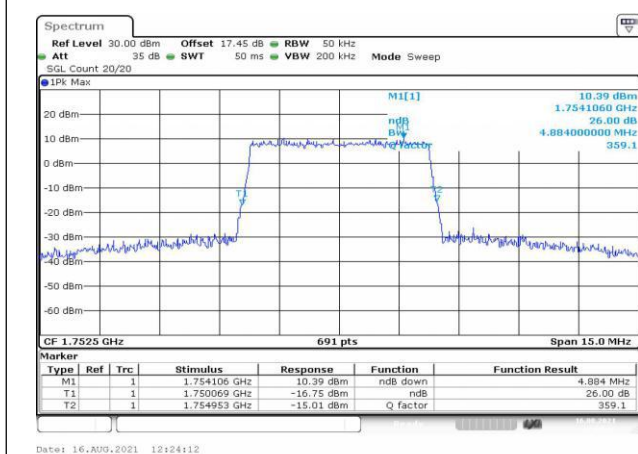
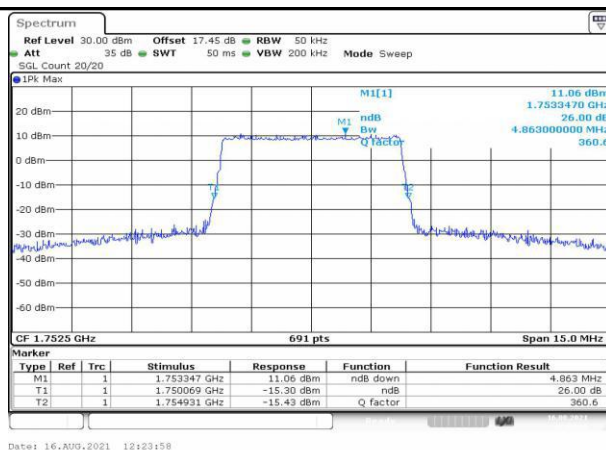
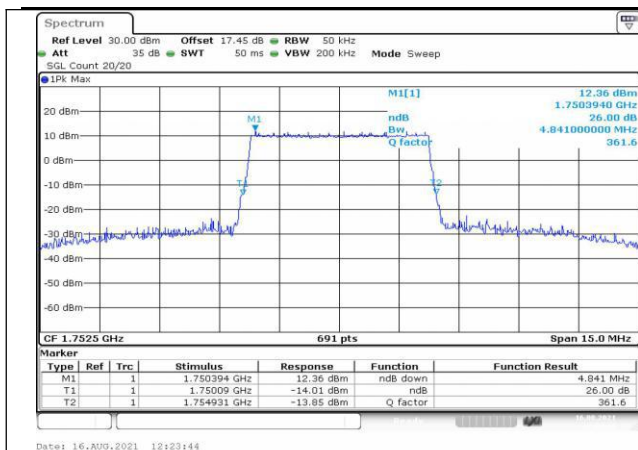


Fig.18





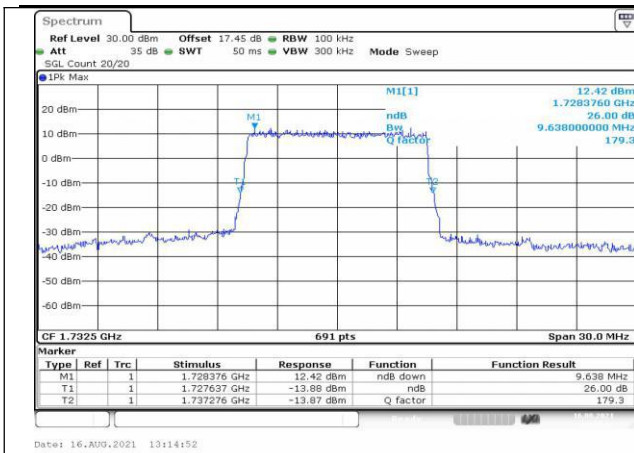


Fig.31

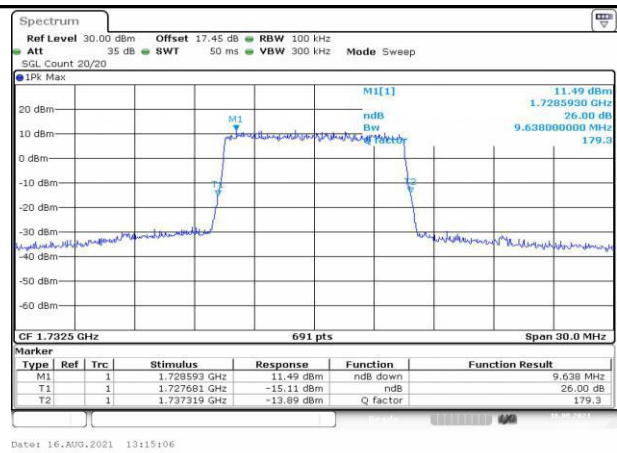


Fig.32

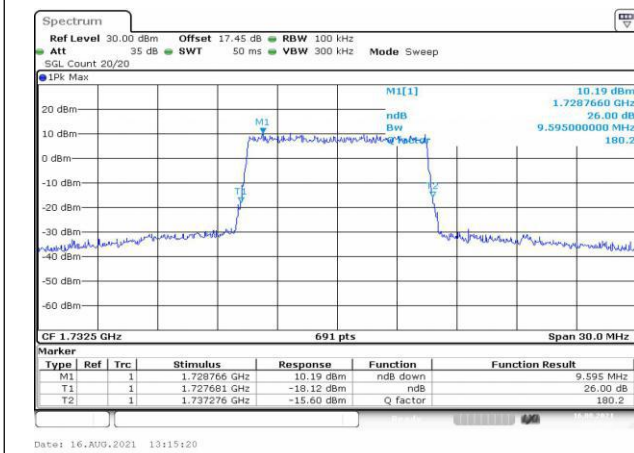


Fig.33

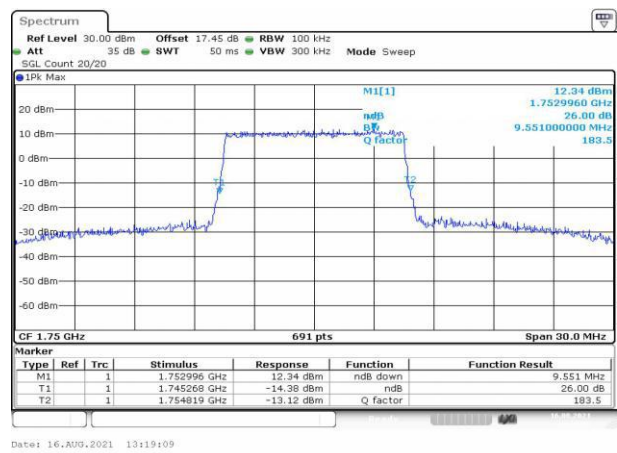


Fig.34

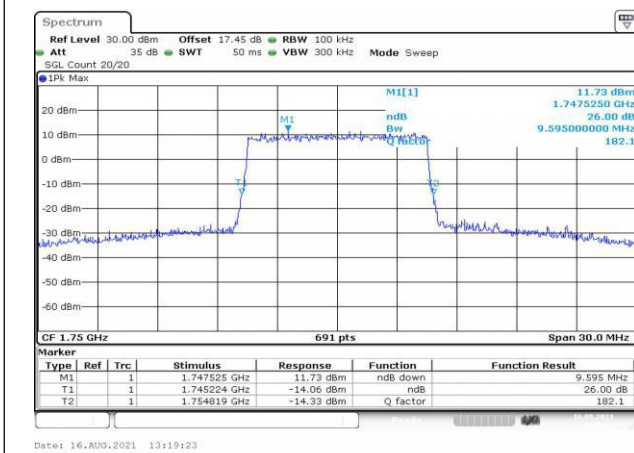


Fig.35

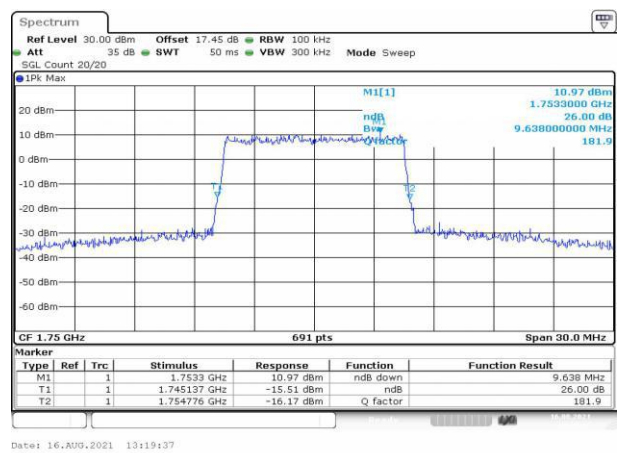


Fig.36

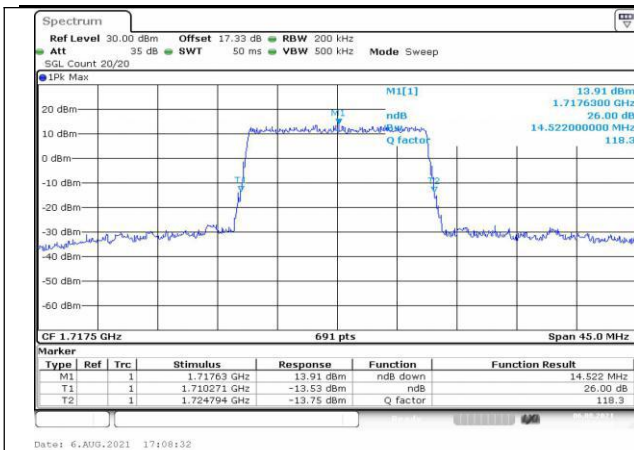


Fig.37

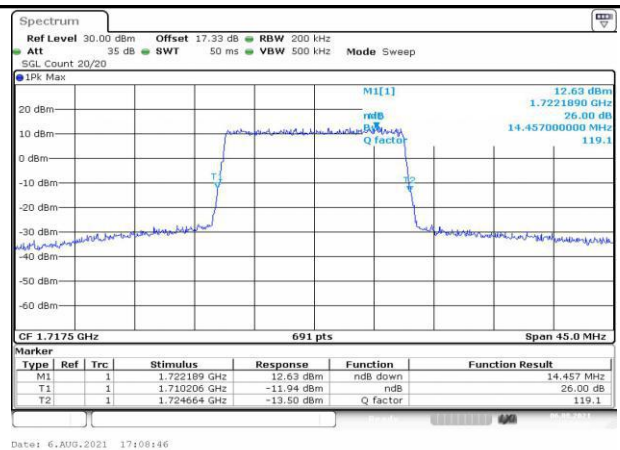


Fig.38

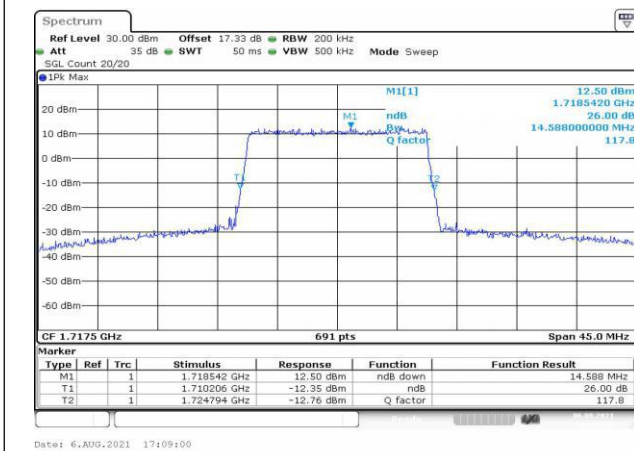


Fig.39

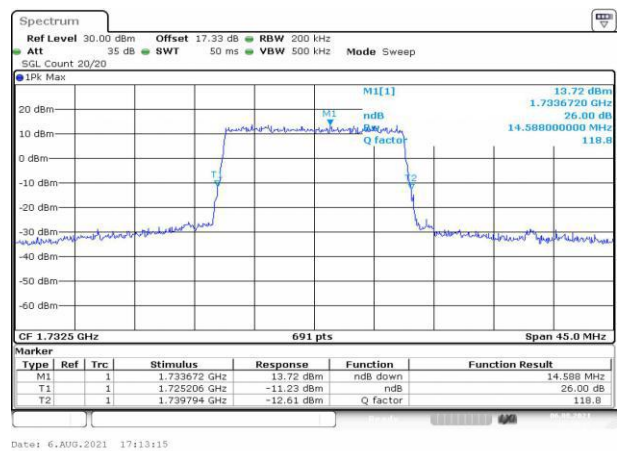


Fig.40

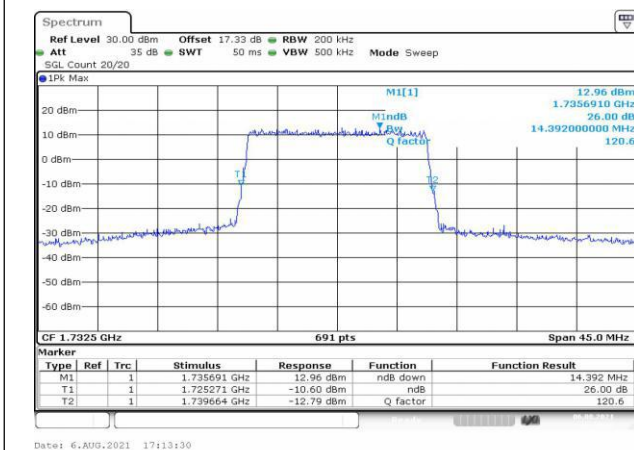


Fig.41

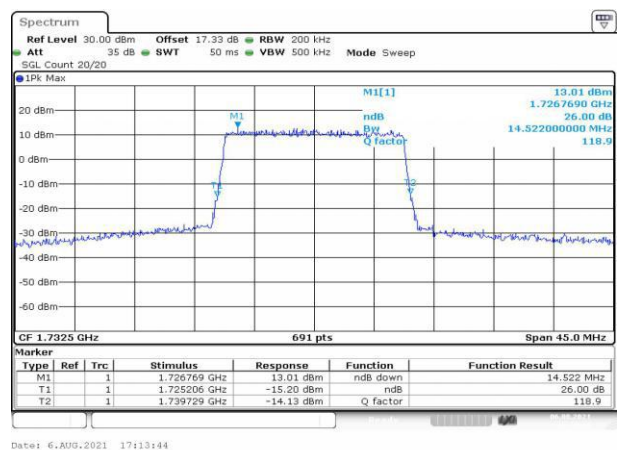


Fig.42

