

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

RF Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1710.7	19957	1.4	1	0	21.27	
				1	3	21.25	
				1	5	21.23	
				3	0	21.39	
				3	1	21.38	
				3	3	21.29	
	6	0		20.21			
	1732.5	20175		1	0	20.99	
				1	3	20.99	
				1	5	20.99	
				3	0	21.03	
				3	1	21.14	
				3	3	20.94	
	6	0		19.85			
	1754.3	20393		1	0	21.10	
				1	3	21.13	
				1	5	21.32	
				3	0	21.01	
				3	1	21.19	
				3	3	21.02	
	6	0		19.93			
	16QAM	1710.7		19957	1	0	19.94
					1	3	20.00
					1	5	19.92
3					0	20.19	
3					1	20.22	
3					3	20.17	
6		0		19.44			
1732.5		20175		1	0	19.91	
				1	3	20.27	
				1	5	20.21	
				3	0	19.57	
				3	1	19.58	
				3	3	19.60	
6		0		18.35			
1754.3		20393		1	0	20.20	
				1	3	20.66	
				1	5	20.47	
				3	0	19.68	
				3	1	19.28	
				3	3	19.54	
6		0		18.48			

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	20.23
				1	3	20.14
				1	5	19.87
				3	0	19.81
				3	1	20.08
				3	3	20.00
				6	0	19.23
	1732.5	20175		1	0	19.17
				1	3	20.02
				1	5	20.00
				3	0	19.85
				3	1	19.48
				3	3	19.52
				6	0	18.89
	1754.3	20393		1	0	19.96
				1	3	20.14
				1	5	20.59
				3	0	20.01
				3	1	20.19
				3	3	20.01
				6	0	19.06

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	21.21
				1	8	21.04
				1	14	21.12
				8	0	20.22
				8	4	20.15
				8	7	19.91
				15	0	19.98
	1732.5	20175		1	0	21.09
				1	8	21.05
				1	14	21.00
				8	0	19.93
				8	4	19.85
				8	7	19.79
				15	0	19.78
	1753.5	20385		1	0	21.03
				1	8	21.28
				1	14	21.28
				8	0	20.07
				8	4	20.01
				8	7	19.95
				15	0	19.95
16QAM	1711.5	19965	1	0	20.61	
			1	8	20.47	
			1	14	20.54	
			8	0	19.00	
			8	4	19.11	
			8	7	19.09	
			15	0	18.85	
	1732.5	20175	1	0	19.76	
			1	8	19.70	
			1	14	19.82	
			8	0	18.46	
			8	4	18.29	
			8	7	18.46	
			15	0	18.54	
	1753.5	20385	1	0	20.10	
			1	8	19.77	
			1	14	19.90	
			8	0	18.51	
			8	4	18.41	
			8	7	18.51	
			15	0	18.71	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	20.50
				1	8	20.10
				1	14	20.18
				8	0	19.07
				8	4	18.81
				8	7	18.85
				15	0	18.78
	1732.5	20175		1	0	19.02
				1	8	19.82
				1	14	19.69
				8	0	18.72
				8	4	18.73
				8	7	18.86
				15	0	18.43
	1753.5	20385		1	0	19.84
				1	8	19.79
				1	14	19.97
				8	0	19.07
				8	4	19.08
				8	7	19.02
				15	0	18.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	21.04
				1	12	21.11
				1	24	20.79
				12	0	20.09
				12	7	19.92
				12	13	19.95
				25	0	19.93
	1732.5	20175		1	0	20.63
				1	12	20.84
				1	24	20.59
				12	0	19.86
				12	7	19.88
				12	13	19.83
				25	0	19.79
	1752.5	20375		1	0	20.98
				1	12	21.05
				1	24	21.16
				12	0	19.97
				12	7	20.01
				12	13	19.97
				25	0	19.93
16QAM	1712.5	19975	1	0	19.67	
			1	12	19.59	
			1	24	19.29	
			12	0	18.80	
			12	7	18.72	
			12	13	18.66	
			25	0	18.74	
	1732.5	20175	1	0	19.62	
			1	12	19.76	
			1	24	19.43	
			12	0	18.63	
			12	7	18.28	
			12	13	18.60	
			25	0	18.58	
	1752.5	20375	1	0	19.30	
			1	12	19.49	
			1	24	19.47	
			12	0	18.40	
			12	7	18.43	
			12	13	18.41	
			25	0	18.87	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	19.37
				1	12	20.25
				1	24	19.90
				12	0	18.87
				12	7	18.71
				12	13	18.75
				25	0	18.84
	1732.5	20175		1	0	19.66
				1	12	20.44
				1	24	19.75
				12	0	18.59
				12	7	18.50
				12	13	18.57
				25	0	18.67
	1752.5	20375		1	0	19.64
				1	12	19.91
				1	24	19.83
				12	0	18.82
				12	7	18.73
				12	13	18.70
				25	0	19.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	21.47
				1	25	21.29
				1	49	21.07
				25	0	20.04
				25	12	19.91
				25	25	19.84
				50	0	19.84
	1732.5	20175		1	0	21.05
				1	25	20.99
				1	49	20.87
				25	0	19.83
				25	12	19.84
				25	25	19.87
				50	0	19.81
	1750	20350		1	0	21.27
				1	25	21.58
				1	49	21.71
				25	0	20.17
				25	12	20.13
				25	25	20.20
				50	0	20.15
16QAM	1715	20000	1	0	20.72	
			1	25	20.41	
			1	49	20.32	
			25	0	19.04	
			25	12	18.82	
			25	25	18.84	
			50	0	18.58	
	1732.5	20175	1	0	19.83	
			1	25	20.01	
			1	49	19.87	
			25	0	18.81	
			25	12	18.72	
			25	25	18.64	
			50	0	18.61	
	1750	20350	1	0	20.09	
			1	25	20.35	
			1	49	20.59	
			25	0	19.10	
			25	12	19.27	
			25	25	19.17	
			50	0	19.04	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	20.42
				1	25	19.81
				1	49	19.91
				25	0	18.88
				25	12	18.84
				25	25	18.79
				50	0	18.88
	1732.5	20175		1	0	19.80
				1	25	19.88
				1	49	20.00
				25	0	18.87
				25	12	18.89
				25	25	18.79
				50	0	18.82
	1750	20350		1	0	20.24
				1	25	20.11
				1	49	20.55
				25	0	19.06
				25	12	19.03
				25	25	18.91
				50	0	18.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	21.25
				1	37	21.06
				1	74	20.86
				36	0	19.85
				36	29	19.63
				36	30	19.59
				75	0	19.52
	1732.5	20175		1	0	21.38
				1	37	21.40
				1	74	21.19
				36	0	20.01
				36	29	20.03
				36	30	19.95
				75	0	19.90
	1747.5	20325		1	0	21.40
				1	37	21.41
				1	74	21.30
				36	0	19.96
				36	29	19.98
				36	30	19.93
				75	0	19.81
16QAM	1717.5	20025	1	0	20.50	
			1	37	20.40	
			1	74	20.11	
			36	0	18.49	
			36	29	18.28	
			36	30	18.43	
			75	0	18.46	
	1732.5	20175	1	0	20.72	
			1	37	20.95	
			1	74	20.35	
			36	0	19.09	
			36	29	18.82	
			36	30	18.69	
			75	0	18.64	
	1747.5	20325	1	0	20.59	
			1	37	20.73	
			1	74	20.56	
			36	0	18.82	
			36	29	18.95	
			36	30	18.73	
			75	0	18.71	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	20.10
				1	37	20.44
				1	74	19.81
				36	0	18.79
				36	29	18.68
				36	30	18.63
				75	0	18.58
	1732.5	20175		1	0	20.26
				1	37	20.18
				1	74	19.95
				36	0	18.81
				36	29	18.92
				36	30	18.79
				75	0	18.66
	1747.5	20325		1	0	20.44
				1	37	20.08
				1	74	20.09
				36	0	18.71
				36	29	18.73
				36	30	18.70
				75	0	18.69

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1720	20050	20	1	0	21.25	
				1	49	21.12	
				1	99	21.05	
				50	0	20.12	
				50	24	20.02	
				50	50	20.05	
				100	0	20.06	
	1732.5	20175		1	0	21.14	
				1	49	21.24	
				1	99	21.01	
				50	0	20.10	
				50	24	20.08	
				50	50	19.97	
				100	0	19.96	
	1745	20300		1	0	21.00	
				1	49	20.91	
				1	99	21.01	
				50	0	20.02	
				50	24	19.98	
				50	50	19.91	
				100	0	19.89	
	16QAM	1720		20050	1	0	20.31
					1	49	19.72
					1	99	20.13
50					0	18.92	
50					24	18.81	
50					50	18.92	
100					0	18.96	
1732.5		20175		1	0	20.15	
				1	49	20.04	
			1	99	20.25		
			50	0	18.93		
			50	24	19.02		
			50	50	18.75		
			100	0	18.88		
1745		20300	1	0	20.01		
			1	49	20.23		
			1	99	19.79		
			50	0	18.68		
			50	24	18.85		
			50	50	18.71		
			100	0	18.71		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	19.87
				1	49	20.53
				1	99	19.71
				50	0	18.84
				50	24	18.74
				50	50	18.94
				100	0	19.91
	1732.5	20175		1	0	19.81
				1	49	20.17
				1	99	20.40
				50	0	19.14
				50	24	18.99
				50	50	18.90
				100	0	19.01
	1745	20300		1	0	19.83
				1	49	19.66
				1	99	20.20
				50	0	18.75
				50	24	18.73
				50	50	18.68
				100	0	18.78

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	1.082	Fig.3
	1732.5	20175		6	0	1.082	Fig.4	1.088	Fig.5	1.088	Fig.6
	1754.3	20393		6	0	1.082	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	2.670	Fig.15
	1753.5	20385		15	0	2.683	Fig.16	2.696	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	13.415	Fig.45
	1720	20050	20	100	0	17.887	Fig.46	17.887	Fig.47	17.887	Fig.48
	1732.5	20175		100	0	17.713	Fig.49	17.800	Fig.50	17.887	Fig.51
	1745	20300		100	0	17.887	Fig.52	17.713	Fig.53	59.479	Fig.54

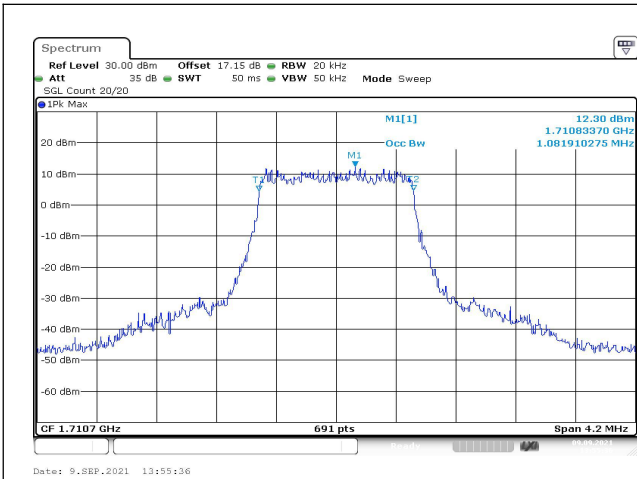


Fig.1

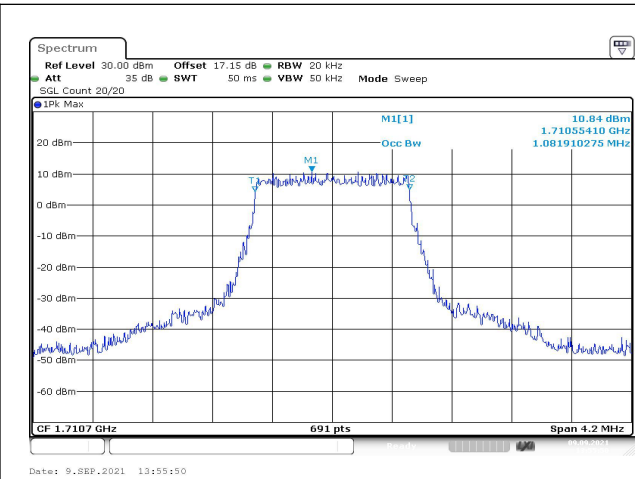


Fig.2

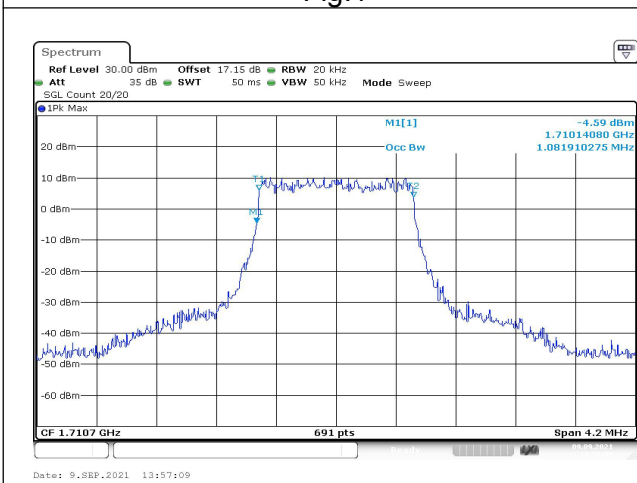


Fig.3

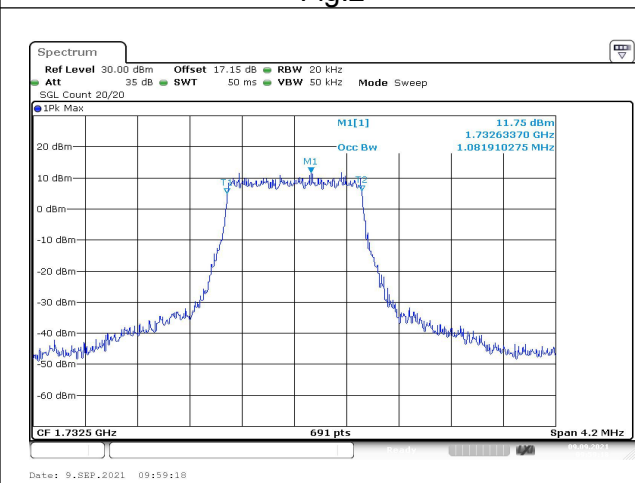


Fig.4

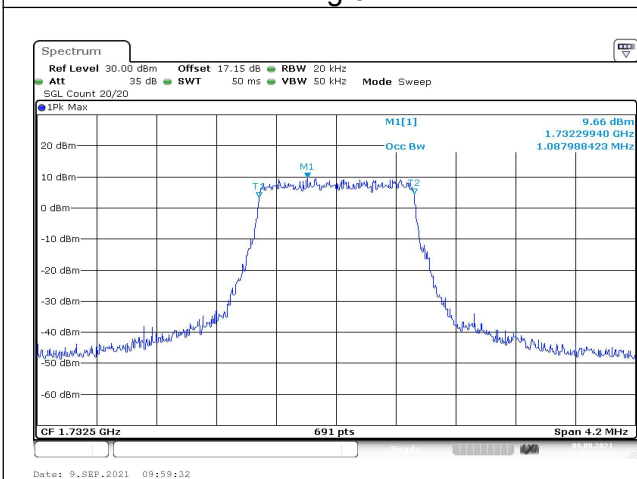


Fig.5

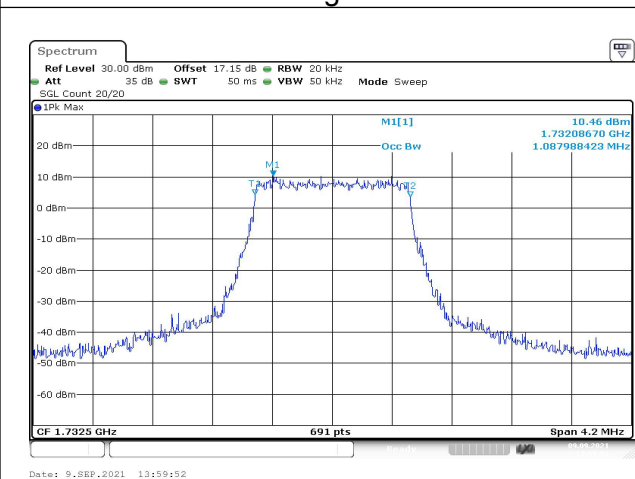


Fig.6

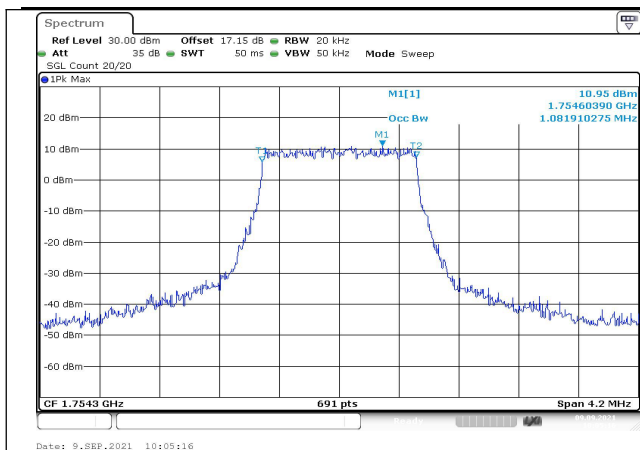


Fig.7

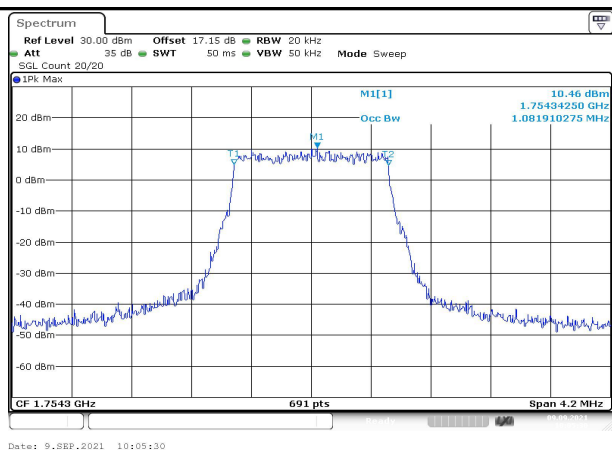


Fig.8

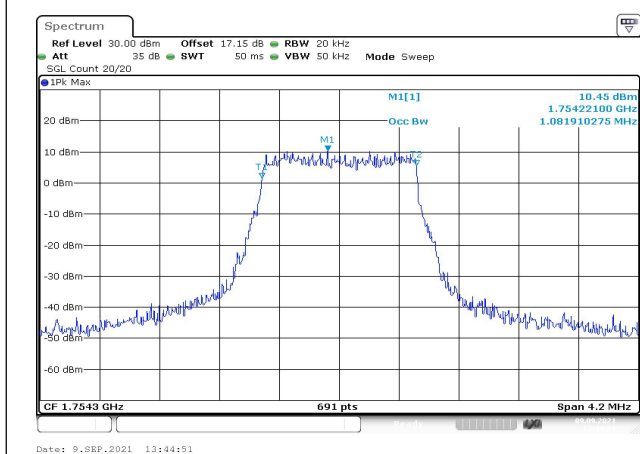


Fig.9

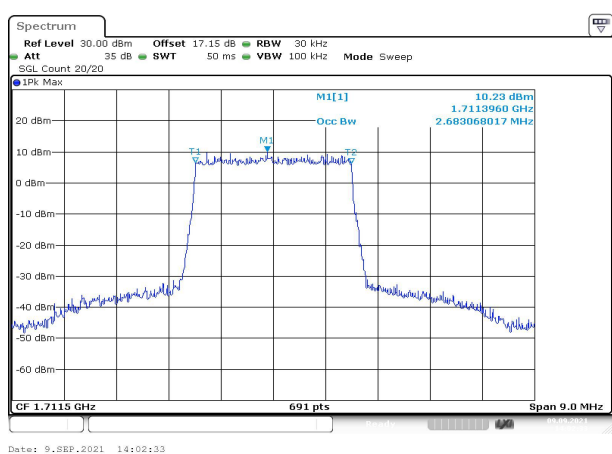


Fig.10

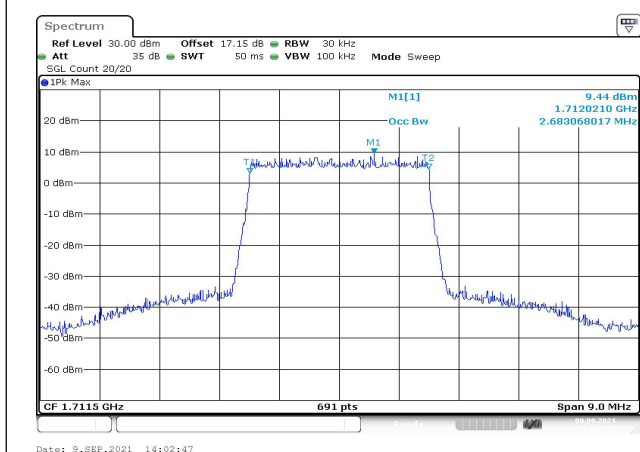


Fig.11

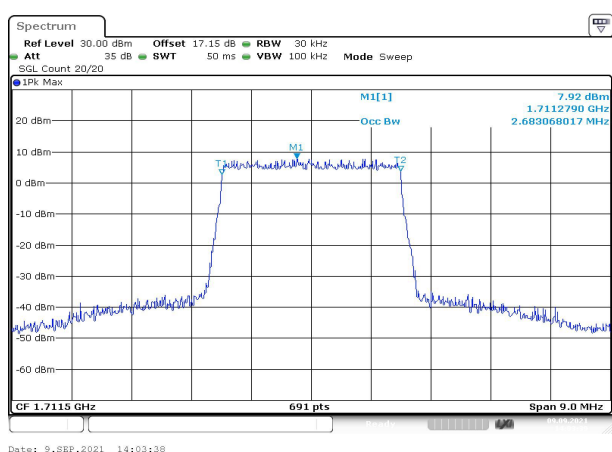


Fig.12

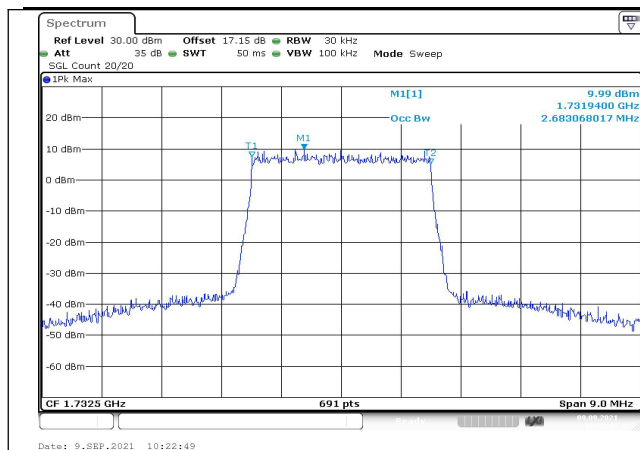


Fig.13

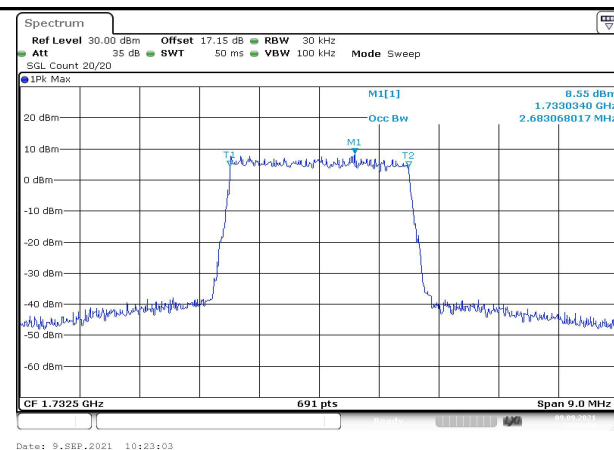


Fig.14

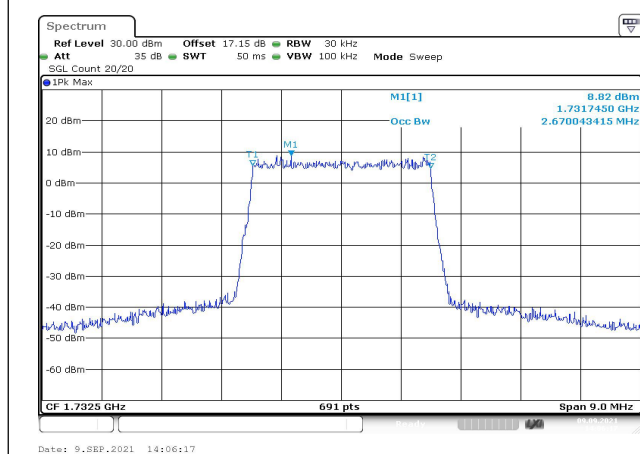


Fig.15

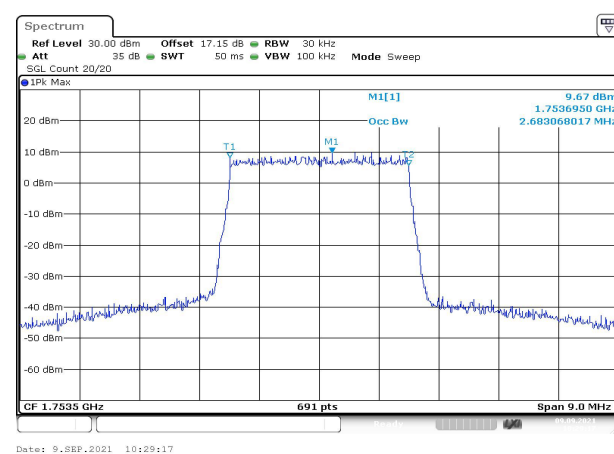


Fig.16

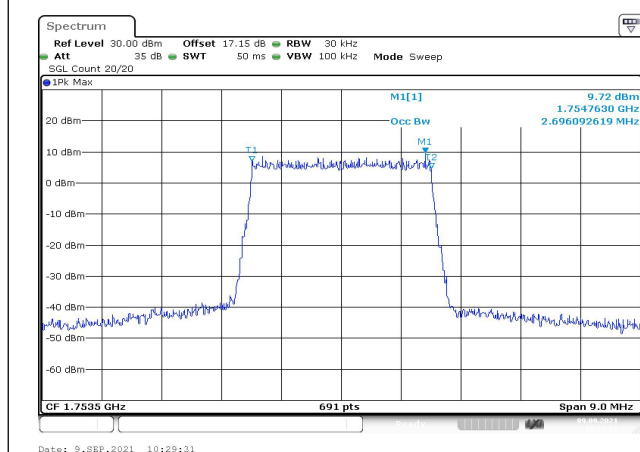


Fig.17

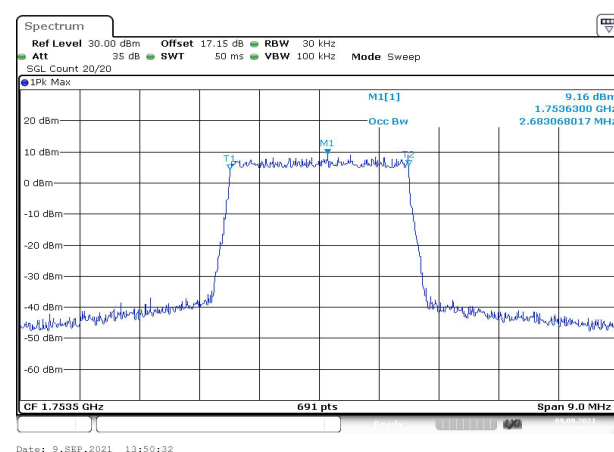


Fig.18

