

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 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	22.93	
				1	3	23.04	
				1	5	23.14	
				3	0	23.10	
				3	1	23.10	
				3	3	23.10	
	1732.5	20175		6	0	22.14	
				1	0	23.01	
				1	3	23.02	
				1	5	23.01	
				3	0	23.02	
				3	1	23.06	
	1754.3	20393		3	3	23.12	
				6	0	22.15	
				1	0	23.28	
				1	3	23.29	
				1	5	23.28	
				3	0	23.23	
	16QAM	1710.7		19957	3	1	23.28
					3	3	23.21
					6	0	22.26
					1	0	22.28
					1	3	22.36
					1	5	22.26
1732.5		20175	3	0	22.09		
			3	1	22.09		
			3	3	22.12		
			6	0	21.18		
			1	0	22.17		
			1	3	22.21		
1754.3		20393	1	5	22.31		
			3	0	22.32		
			3	1	22.30		
			3	3	22.19		
			6	0	21.02		
			1	0	22.32		
				1	3	22.38	
				1	5	22.38	
				3	0	22.45	
				3	1	22.61	
				3	3	22.55	
				6	0	21.32	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.19
				1	3	21.21
				1	5	21.19
				3	0	21.24
				3	1	21.18
				3	3	21.21
	6	0		21.21		
	1732.5	20175		1	0	21.08
				1	3	21.03
				1	5	21.08
				3	0	21.08
				3	1	21.02
				3	3	21.03
	6	0		21.08		
	1754.3	20393		1	0	21.32
				1	3	21.33
				1	5	21.33
				3	0	21.33
				3	1	21.33
				3	3	21.33
	6	0		21.33		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.03
				1	8	23.12
				1	14	23.14
				8	0	22.24
				8	4	22.21
				8	7	22.21
	15	0		22.17		
	1732.5	20175		1	0	23.08
				1	8	23.22
				1	14	23.21
				8	0	22.20
				8	4	22.22
				8	7	22.22
	1753.5	20385		15	0	22.20
				1	0	23.31
1			8	23.37		
1			14	23.37		
8			0	22.38		
8			4	22.40		
16QAM	1711.5	19965	8	7	22.43	
			15	0	22.43	
			1	0	22.82	
			1	8	22.77	
			1	14	22.88	
			8	0	21.39	
	1732.5	20175	8	4	21.40	
			8	7	21.40	
			15	0	21.30	
			1	0	22.29	
			1	8	22.40	
			1	14	22.29	
	1753.5	20385	8	0	21.19	
			8	4	21.25	
			8	7	21.22	
15			0	21.11		
1			0	22.50		
1			8	22.51		
			1	14	22.51	
			8	0	21.46	
			8	4	21.42	
			8	7	21.41	
			15	0	21.47	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.30
				1	8	21.36
				1	14	21.29
				8	0	21.30
				8	4	21.30
				8	7	21.30
				15	0	21.30
	1732.5	20175		1	0	21.11
				1	8	21.12
				1	14	21.11
				8	0	21.11
				8	4	21.12
				8	7	21.12
				15	0	21.12
	1753.5	20385		1	0	21.46
				1	8	21.46
				1	14	21.47
				8	0	21.47
				8	4	21.47
				8	7	21.53
				15	0	21.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.01
				1	12	23.08
				1	24	23.11
				12	0	22.25
				12	7	22.20
				12	13	22.20
				25	0	22.19
	1732.5	20175		1	0	23.04
				1	12	23.25
				1	24	23.25
				12	0	22.10
				12	7	22.24
				12	13	22.20
				25	0	22.15
	1752.5	20375		1	0	23.32
				1	12	23.37
				1	24	23.36
				12	0	22.38
				12	7	22.43
				12	13	22.44
				25	0	22.36
16QAM	1712.5	19975	1	0	22.51	
			1	12	22.50	
			1	24	22.50	
			12	0	21.34	
			12	7	21.31	
			12	13	21.32	
			25	0	21.23	
	1732.5	20175	1	0	22.30	
			1	12	22.33	
			1	24	22.19	
			12	0	21.08	
			12	7	21.24	
			12	13	21.30	
			25	0	21.24	
	1752.5	20375	1	0	22.39	
			1	12	22.39	
			1	24	22.39	
			12	0	21.36	
			12	7	21.43	
			12	13	21.44	
			25	0	21.52	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.31
				1	12	21.22
				1	24	21.26
				12	0	21.23
				12	7	21.28
				12	13	21.33
	1732.5	20175		25	0	21.29
				1	0	21.15
				1	12	21.24
				1	24	21.19
				12	0	21.24
				12	7	21.22
	1752.5	20375		12	13	21.23
				25	0	21.20
				1	0	21.49
				1	12	21.48
				1	24	21.47
				12	0	21.49
	12	7		21.50		
	12	13		21.49		
	25	0		21.45		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	22.94
				1	25	23.04
				1	49	22.92
				25	0	22.18
				25	12	22.13
				25	25	22.18
	50	0		22.21		
	1732.5	20175		1	0	23.12
				1	25	23.03
				1	49	23.24
				25	0	22.11
				25	12	22.26
				25	25	22.25
	1750	20350		50	0	22.14
				1	0	23.26
				1	25	23.25
				1	49	23.21
				25	0	22.25
25			12	22.35		
16QAM	1715	20000	25	25	22.41	
			50	0	22.25	
			1	0	22.47	
			1	25	22.28	
			1	49	22.25	
			25	0	21.22	
	1732.5	20175	25	12	21.25	
			25	25	21.23	
			50	0	21.28	
			1	0	22.26	
			1	25	22.27	
			1	49	22.34	
	1750	20350	25	0	21.21	
			25	12	21.39	
			25	25	21.30	
			50	0	21.21	
			1	0	22.81	
			1	25	22.89	
			1	49	22.89	
			25	0	21.36	
			25	12	21.53	
			25	25	21.53	
			50	0	21.26	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.24
				1	25	21.28
				1	49	21.16
				25	0	21.26
				25	12	21.25
				25	25	21.26
				50	0	21.24
	1732.5	20175		1	0	21.21
				1	25	21.10
				1	49	21.21
				25	0	21.24
				25	12	21.19
				25	25	21.23
				50	0	21.23
	1750	20350		1	0	21.32
				1	25	21.39
				1	49	21.39
				25	0	21.25
				25	12	21.20
				25	25	21.35
				50	0	21.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.15
				1	37	22.95
				1	74	22.98
				36	0	22.19
				36	29	22.19
				36	30	22.16
	1732.5	20175		75	0	22.20
				1	0	23.14
				1	37	23.06
				1	74	23.08
				36	0	22.19
				36	29	22.28
	1747.5	20325		36	30	22.23
				75	0	22.17
				1	0	23.24
				1	37	23.24
				1	74	23.23
				36	0	22.32
16QAM	1717.5	20025	36	29	22.39	
			36	30	22.39	
			75	0	22.34	
			1	0	22.64	
			1	37	22.23	
			1	74	22.26	
	1732.5	20175	36	0	21.29	
			36	29	21.18	
			36	30	21.18	
			75	0	21.24	
			1	0	22.84	
			1	37	22.78	
	1747.5	20325	1	74	22.68	
			36	0	21.24	
			36	29	21.28	
			36	30	21.22	
			75	0	21.08	
			1	0	22.88	
			1	37	22.80	
			1	74	22.95	
			36	0	21.38	
			36	29	21.42	
			36	30	21.41	
			75	0	21.28	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.27
				1	37	21.27
				1	74	21.27
				36	0	21.31
				36	29	21.29
				36	30	21.29
				75	0	21.33
	1732.5	20175		1	0	21.17
				1	37	21.10
				1	74	21.07
				36	0	21.19
				36	29	21.16
				36	30	21.17
				75	0	21.17
	1747.5	20325		1	0	21.35
				1	37	21.35
				1	74	21.33
				36	0	21.33
				36	29	21.30
				36	30	21.33
				75	0	21.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	22.95
				1	49	23.12
				1	99	23.00
				50	0	22.26
				50	24	22.12
				50	50	22.12
	100	0		22.26		
	1	0		23.27		
	1	49		23.31		
	1	99		23.30		
	50	0		22.26		
	50	24		22.22		
	50	50		22.28		
	100	0		22.25		
	1	0		23.33		
	1	49		23.21		
	1	99		23.24		
	50	0		22.34		
50	24	22.37				
50	50	22.37				
100	0	22.47				
16QAM	1720	20050	20	1	0	22.61
				1	49	22.48
				1	99	22.25
				50	0	21.19
				50	24	21.15
				50	50	21.15
	100	0		21.24		
	1	0		22.80		
	1	49		22.49		
	1	99		22.59		
	50	0		21.22		
	50	24		21.22		
	50	50		21.26		
	100	0		21.34		
	1	0		22.96		
	1	49		22.83		
	1	99		22.98		
	50	0		21.32		
50	24	21.37				
50	50	21.38				
100	0	21.36				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.25
				1	49	21.28
				1	99	21.28
				50	0	21.23
				50	24	21.23
				50	50	21.24
				100	0	21.24
	1732.5	20175		1	0	21.21
				1	49	21.23
				1	99	21.26
				50	0	21.30
				50	24	21.28
				50	50	21.26
				100	0	21.23
	1745	20300		1	0	21.41
				1	49	21.38
				1	99	21.38
				50	0	21.40
				50	24	21.41
				50	50	21.40
				100	0	21.41

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	1.082	Fig.5	1.082	Fig.6
	1754.3	20393		6	0	1.082	Fig.7	1.082	Fig.8	1.088	Fig.9
	1711.5	19965	3	15	0	2.670	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	2.696	Fig.17	2.683	Fig.18
	1712.5	19975	5	25	0	4.472	Fig.19	4.472	Fig.20	4.493	Fig.21
	1732.5	20175		25	0	4.472	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	13.480	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	17.887	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

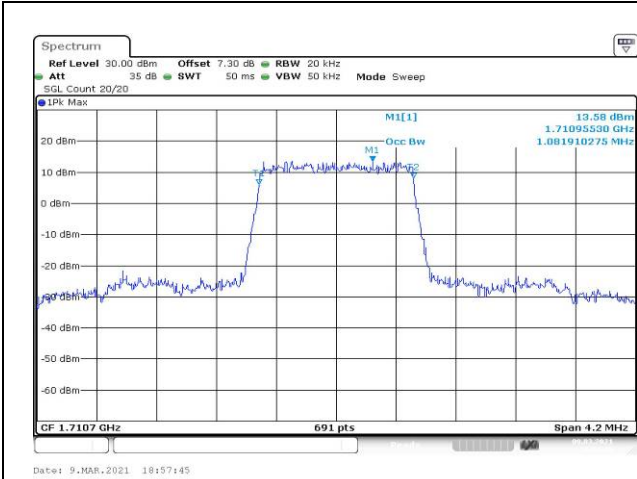


Fig.1

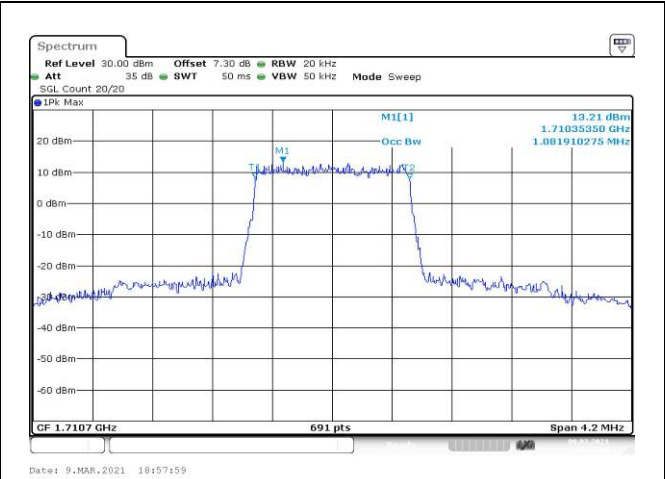


Fig.2

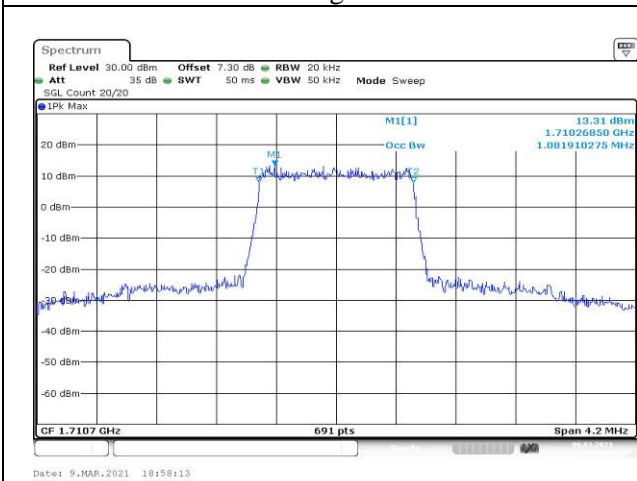


Fig.3

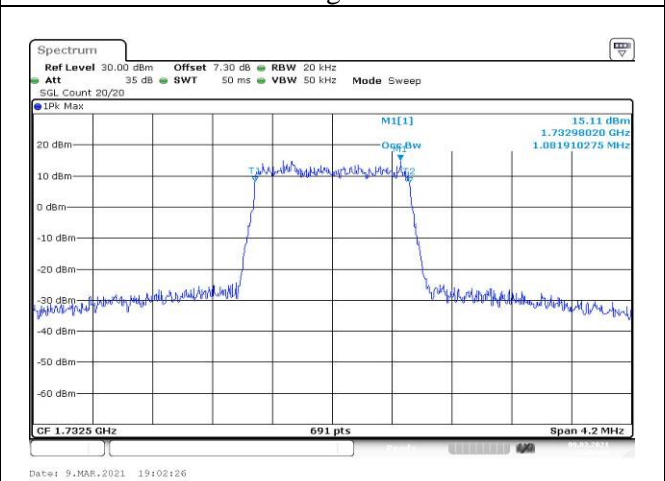


Fig.4

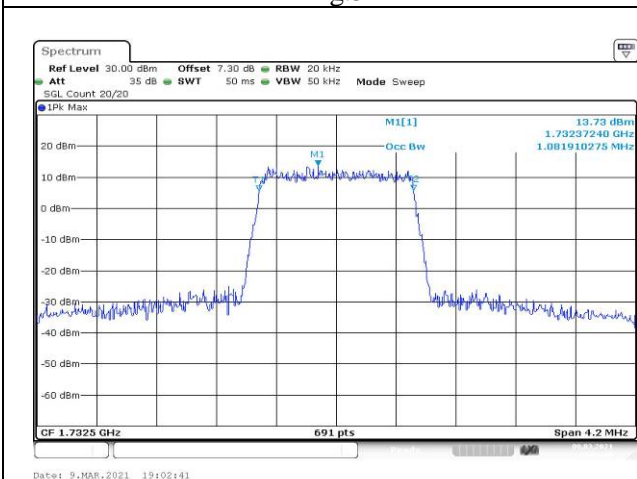


Fig.5

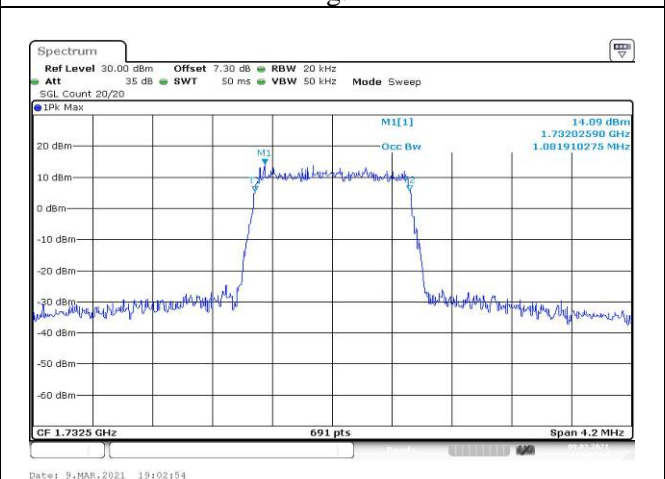


Fig.6

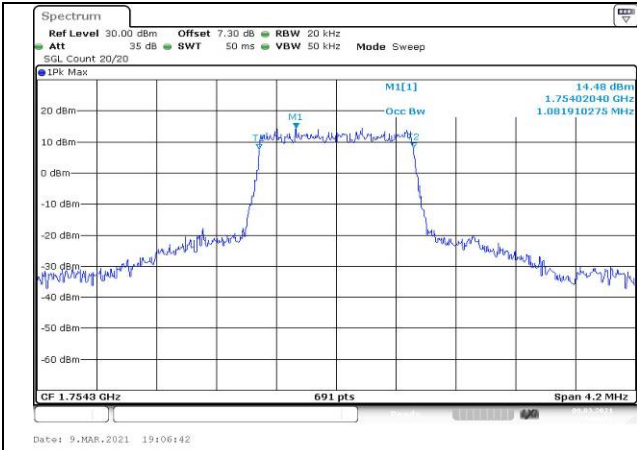


Fig.7

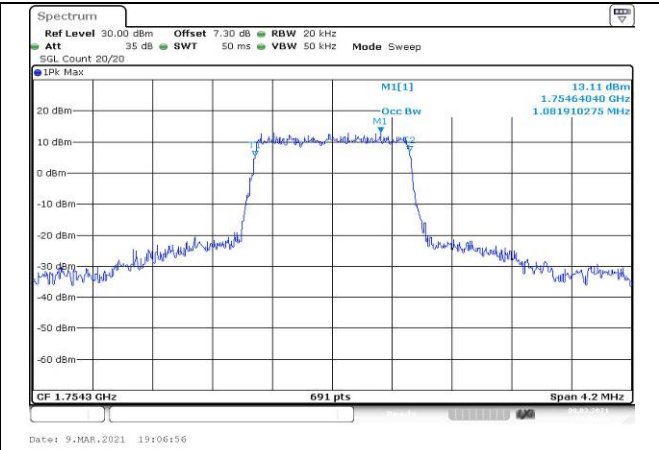


Fig.8

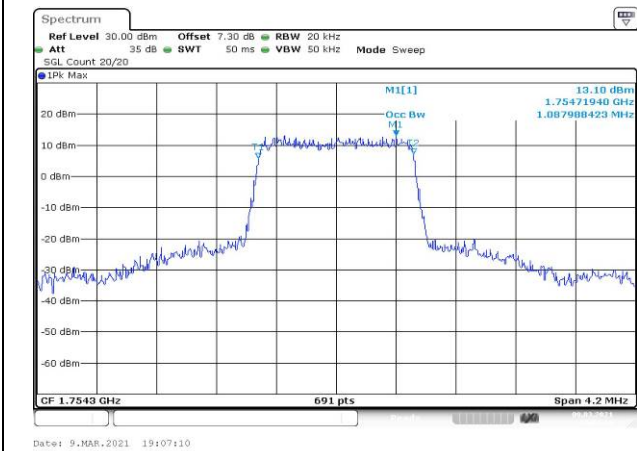


Fig.9

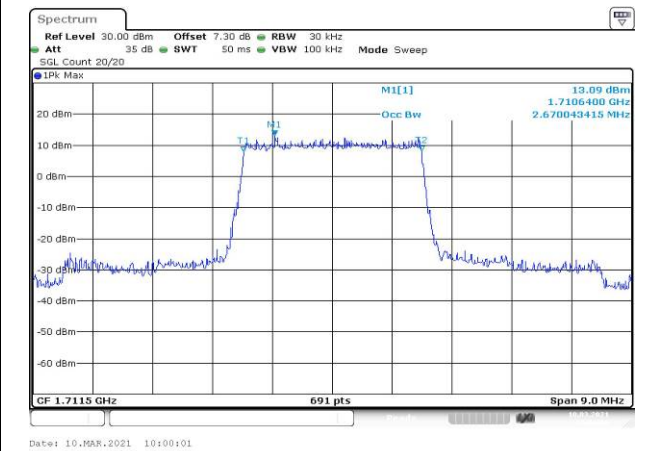


Fig.10

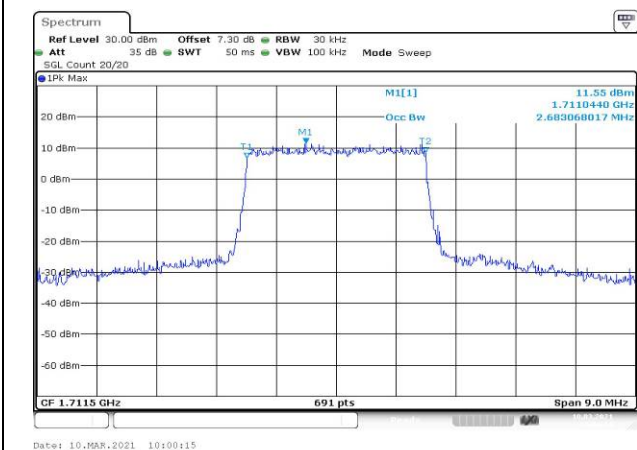


Fig.11

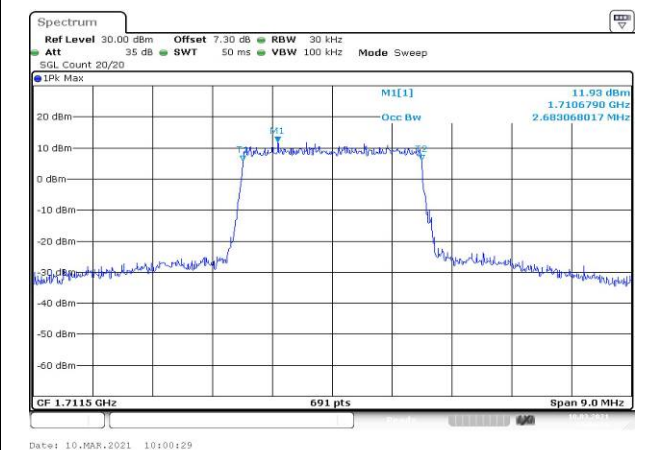


Fig.12

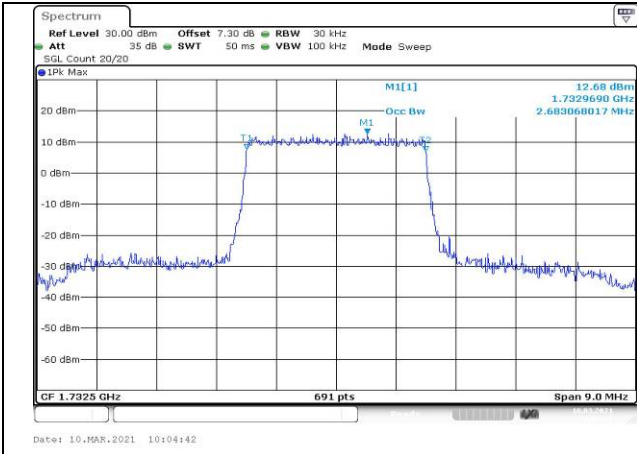


Fig.13

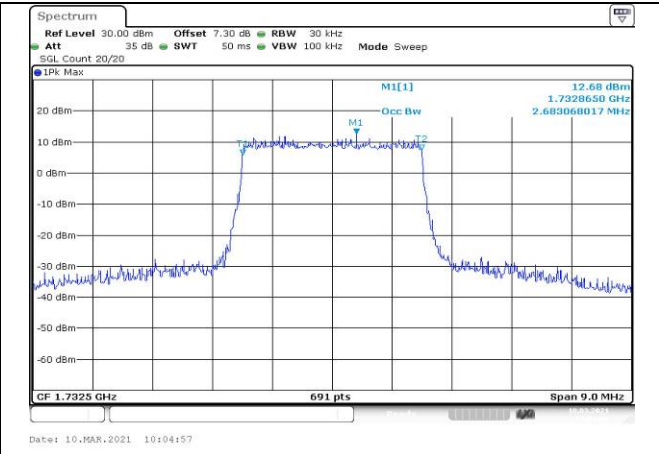


Fig.14

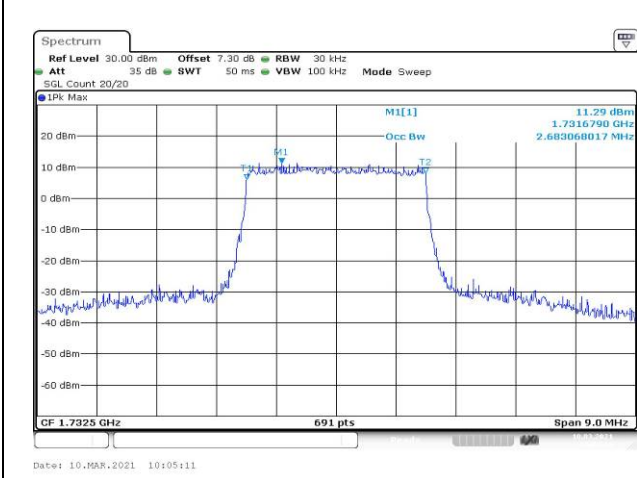


Fig.15

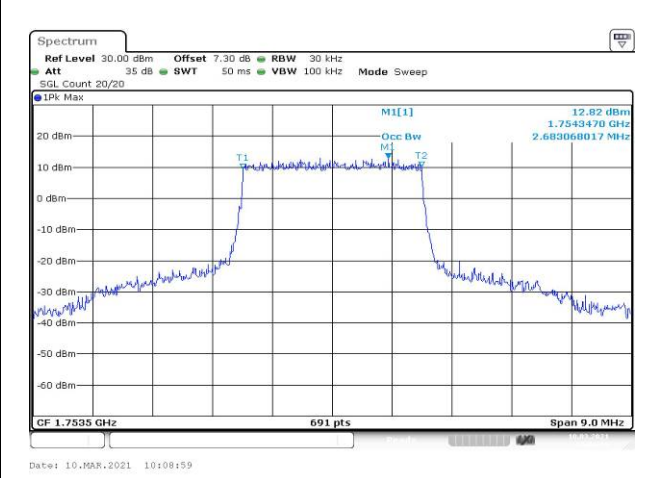


Fig.16

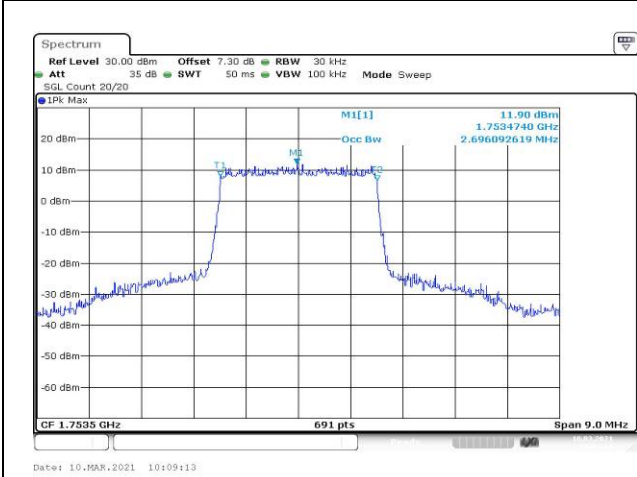


Fig.17

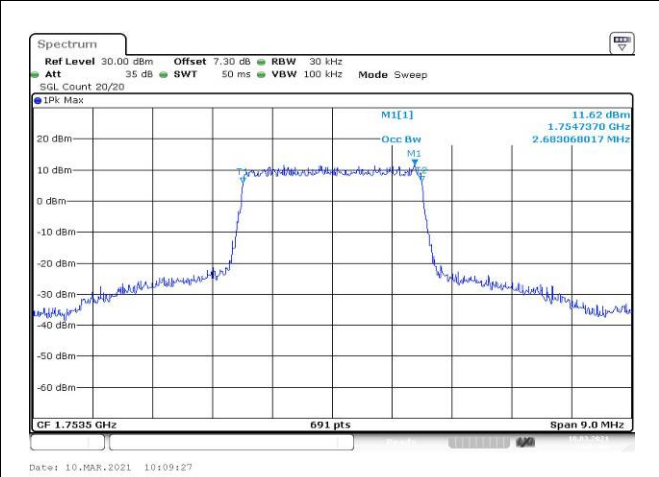


Fig.18

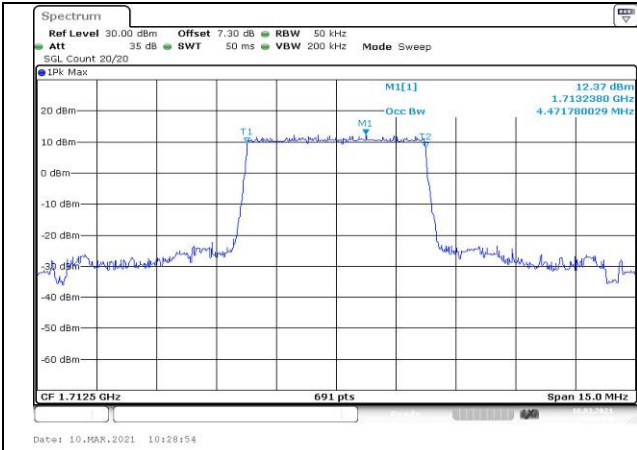


Fig.19

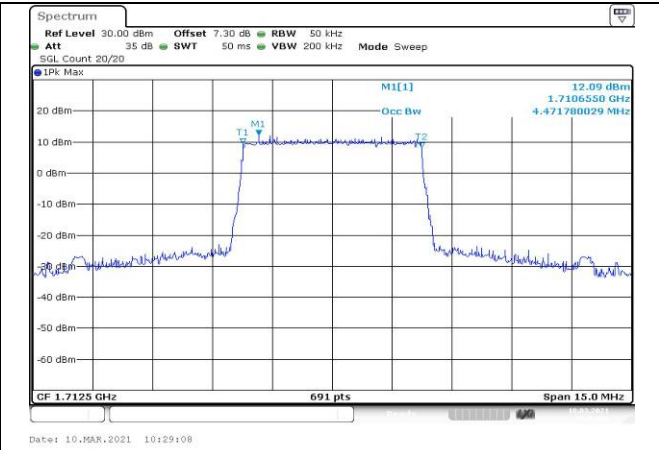


Fig.20

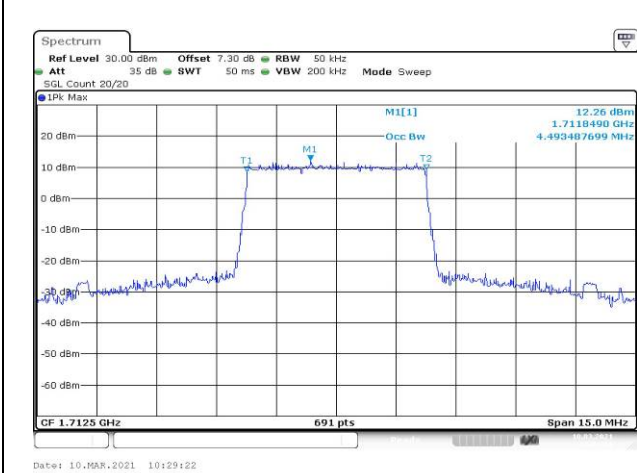


Fig.21

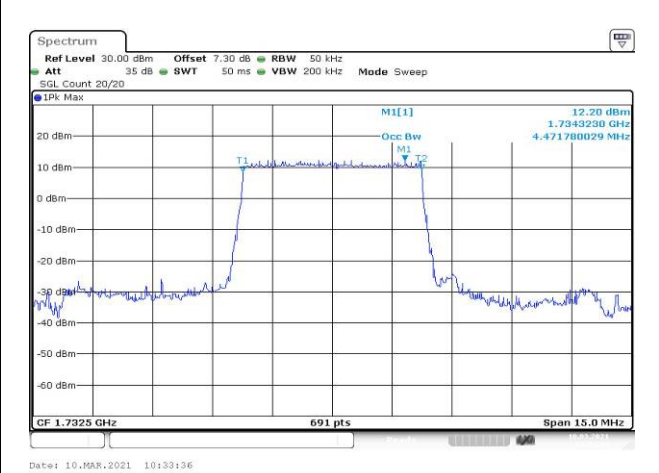


Fig.22

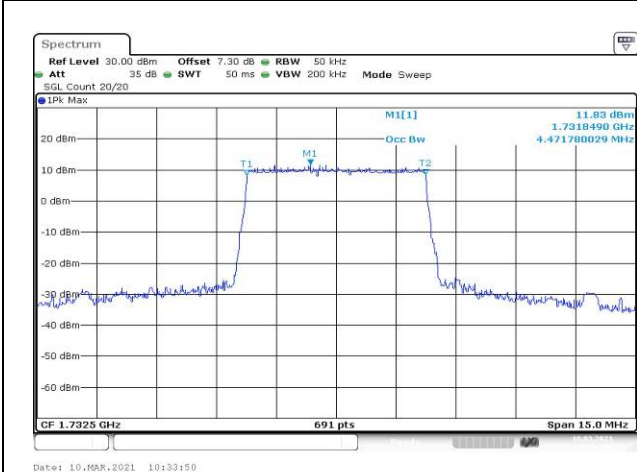


Fig.23

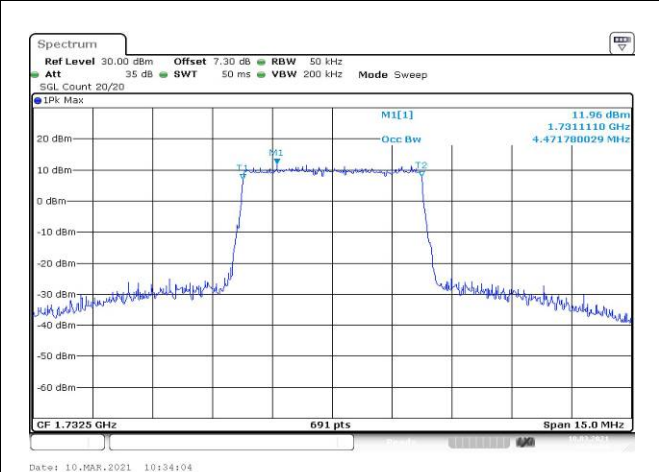


Fig.24

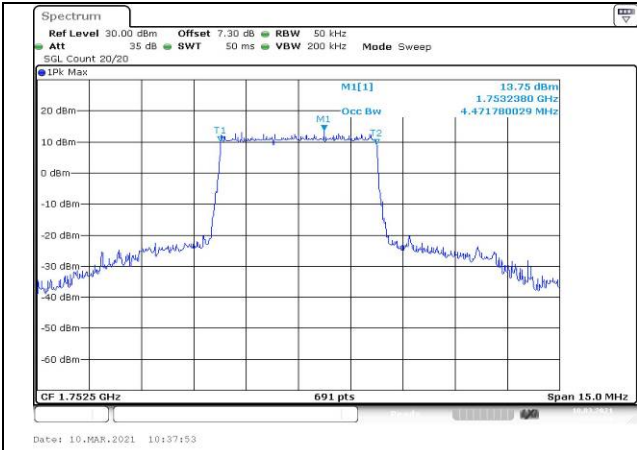


Fig.25

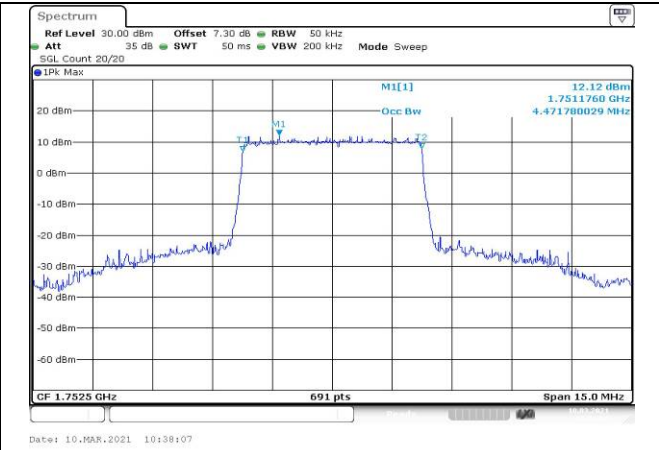


Fig.26

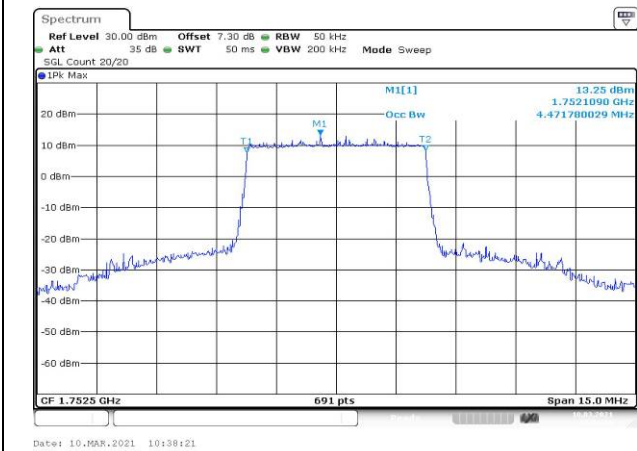


Fig.27

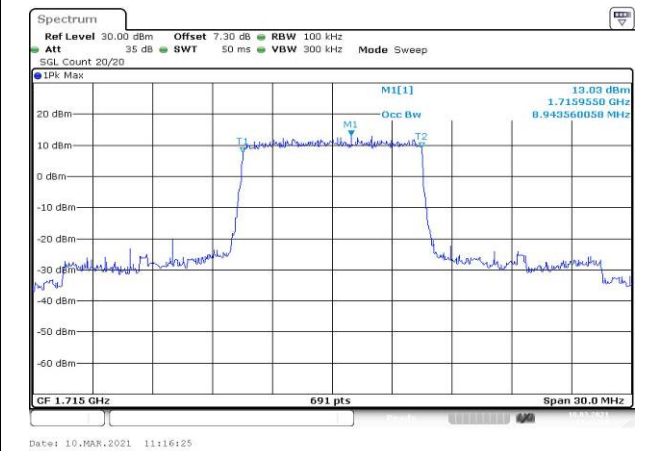


Fig.28

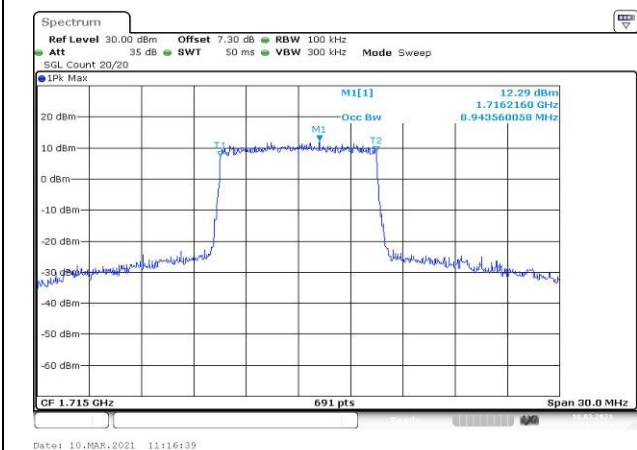


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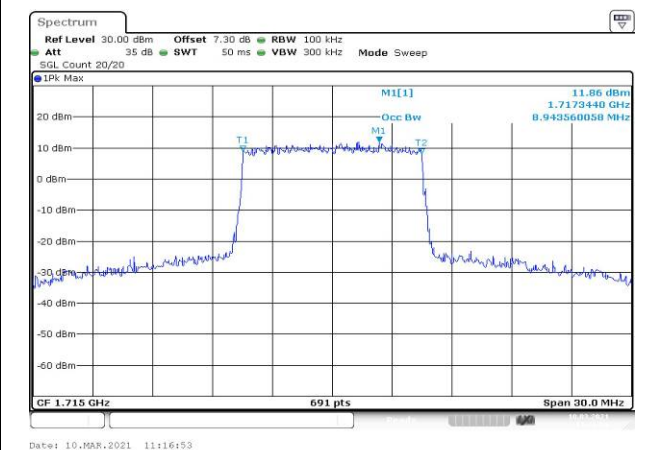


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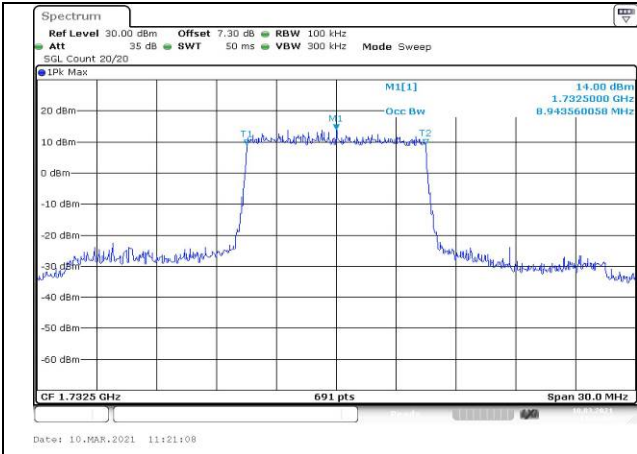


Fig.31

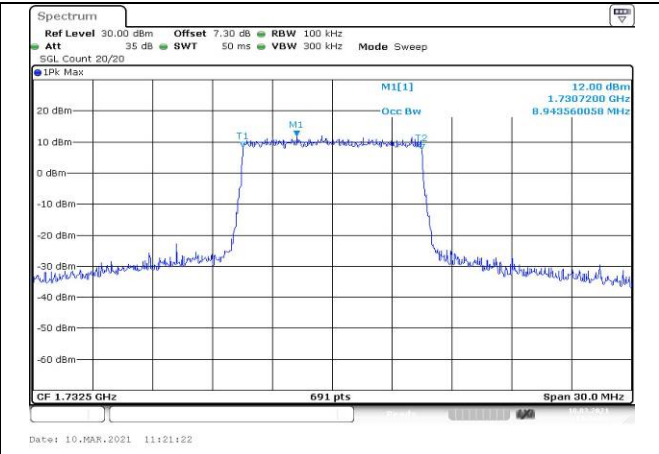


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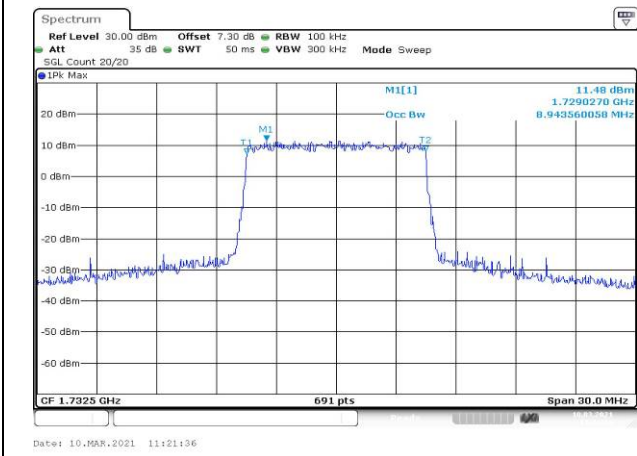


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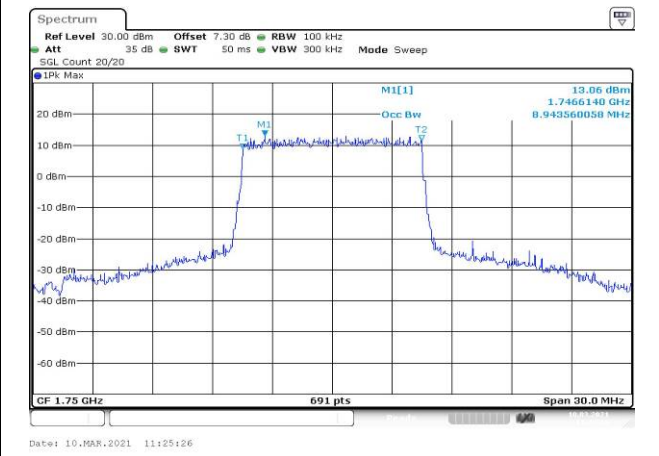


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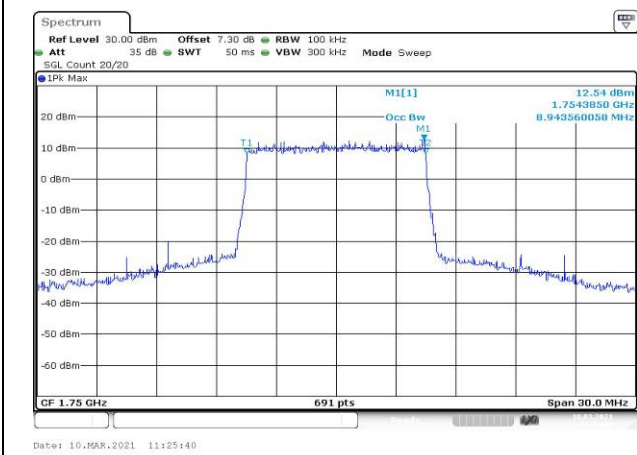


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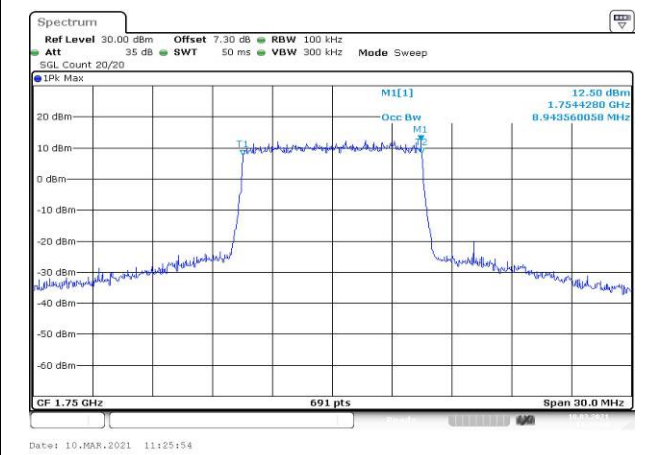


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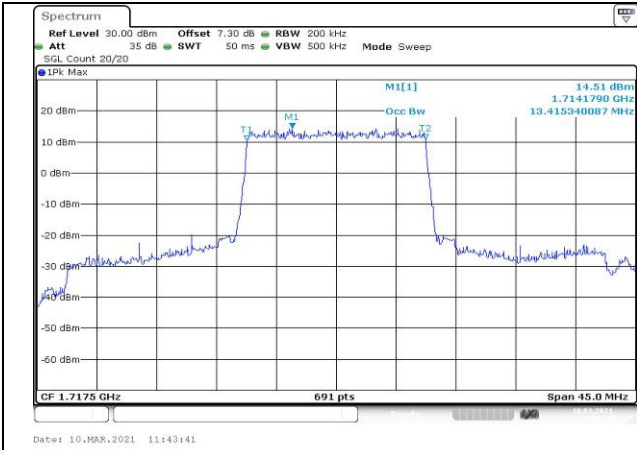


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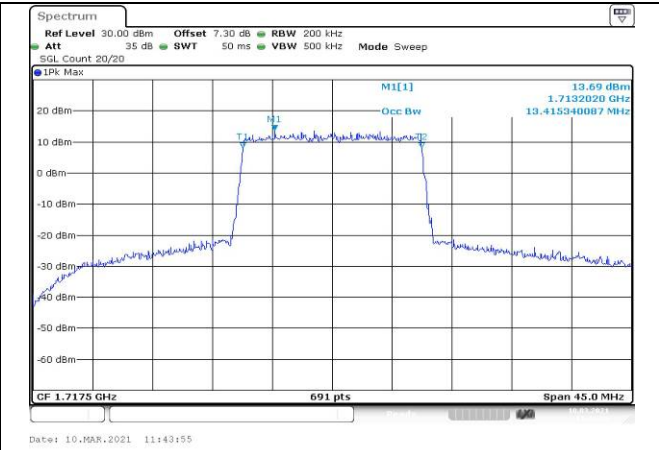


Fig.38

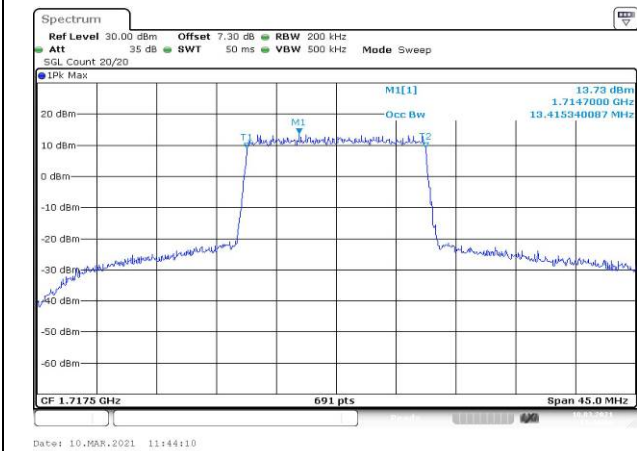


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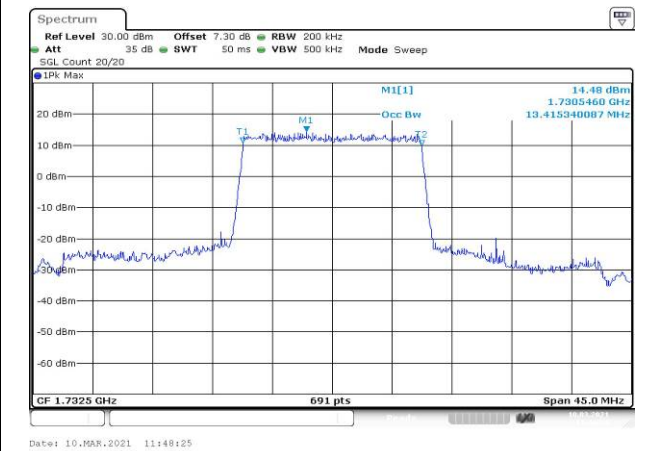


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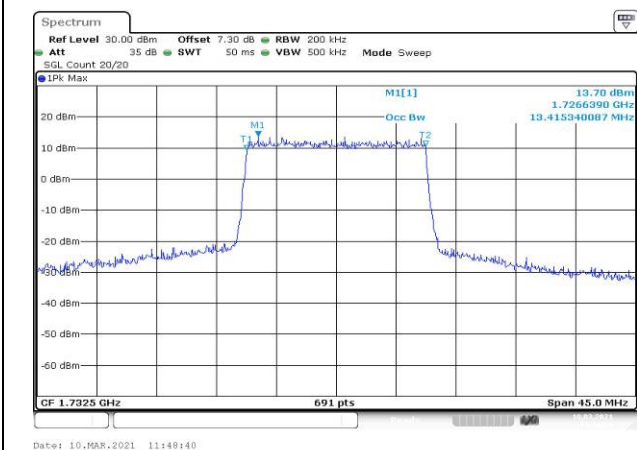


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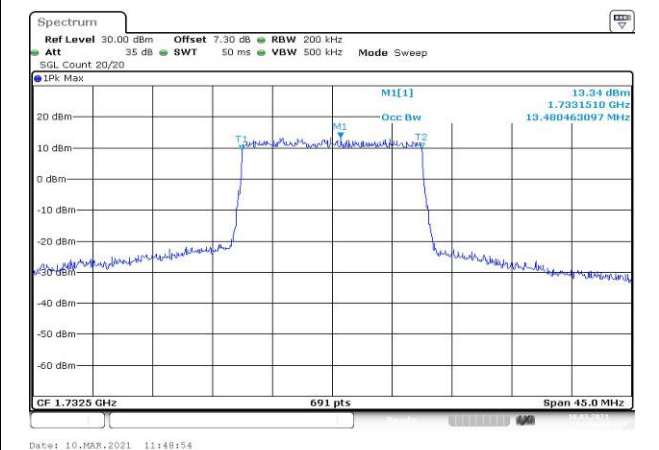


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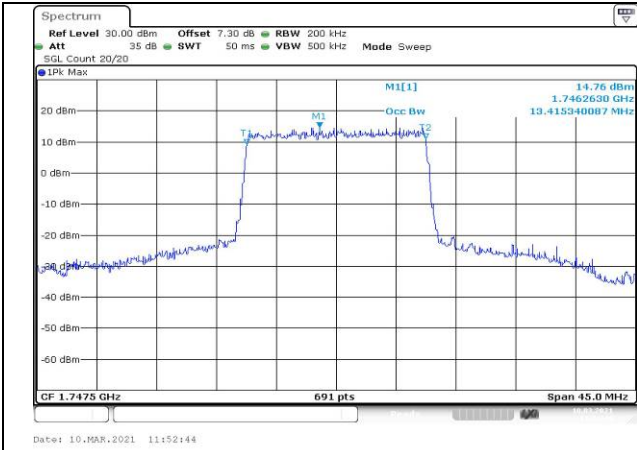


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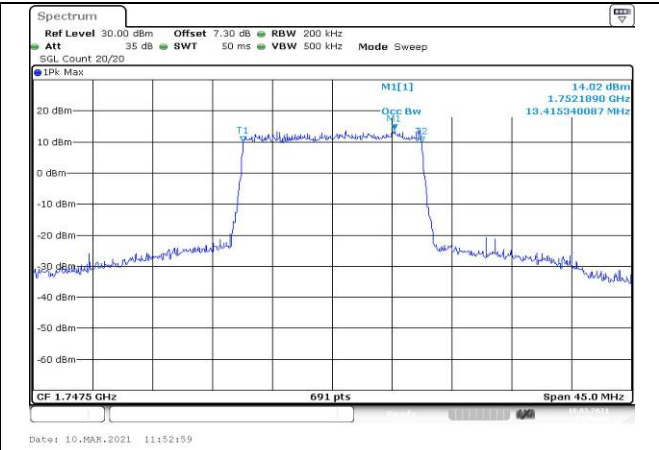


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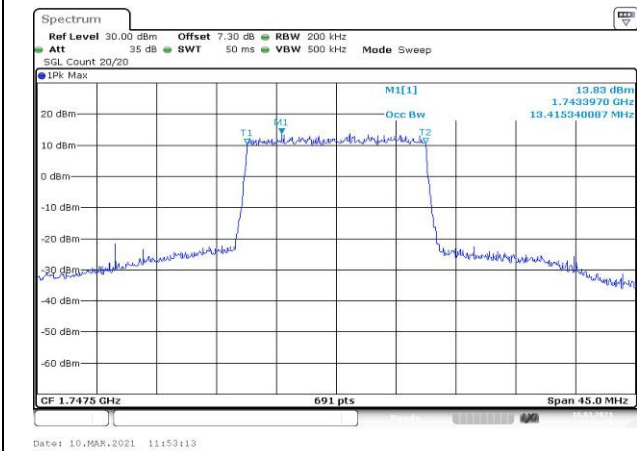


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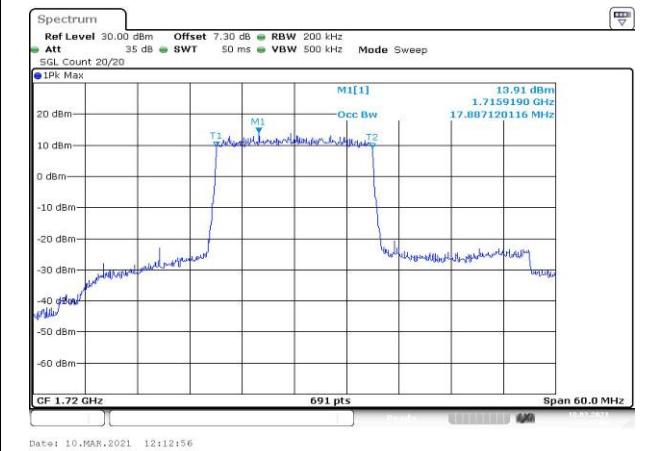


Fig.46

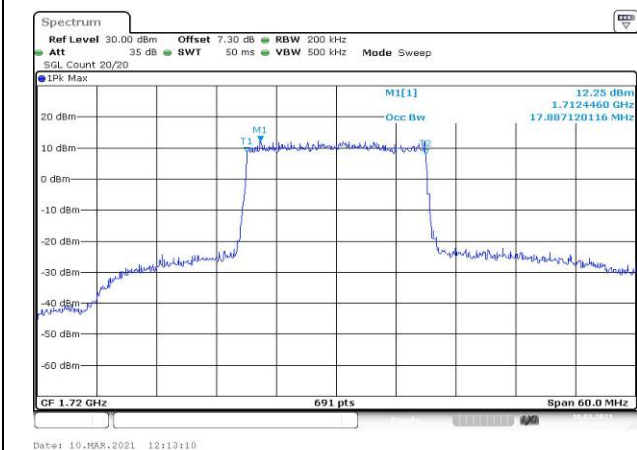


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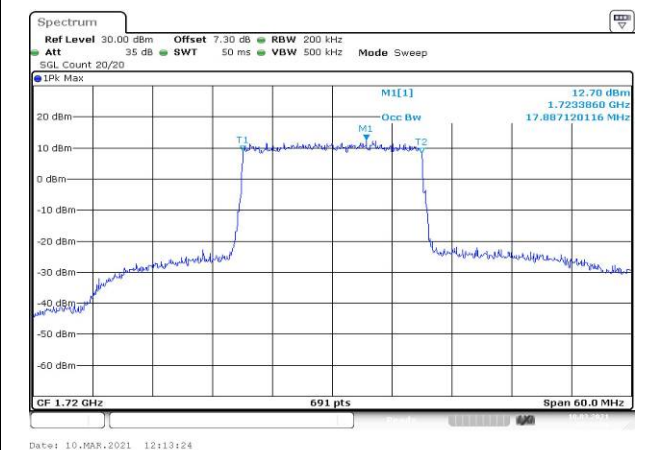


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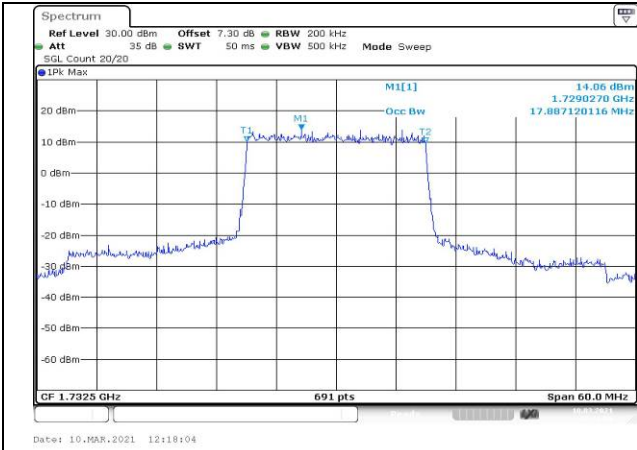


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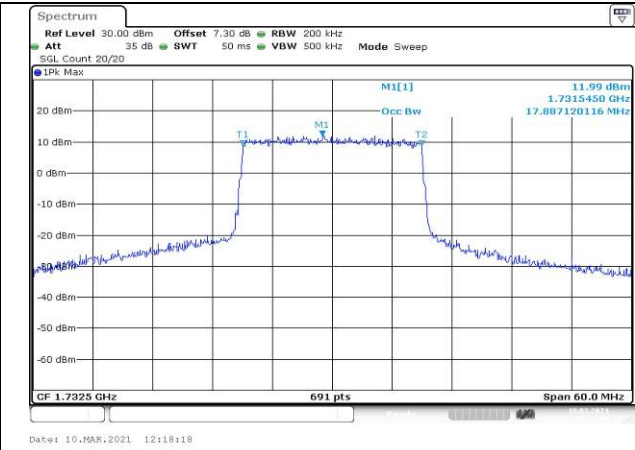


Fig.50

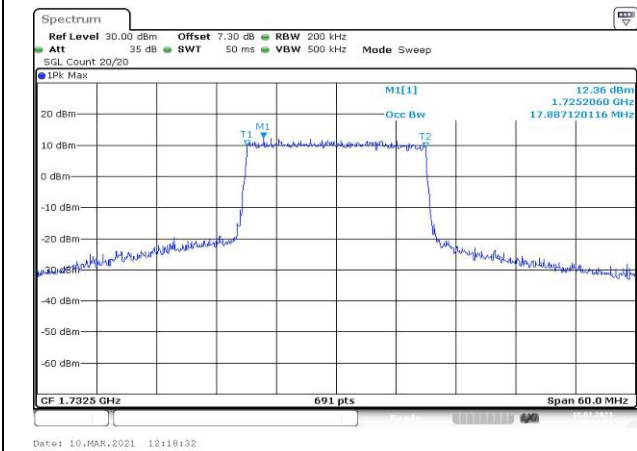


Fig.51

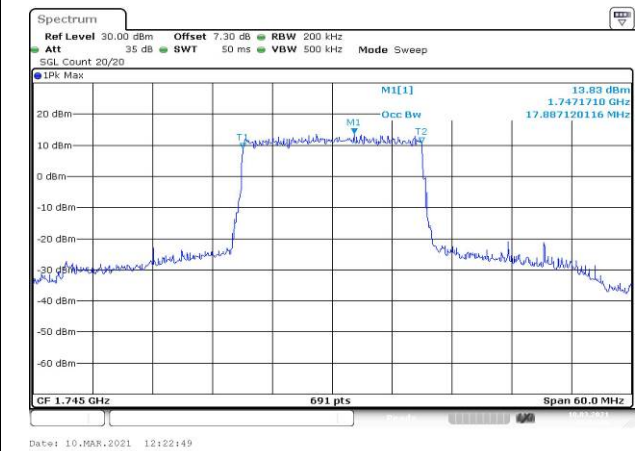


Fig.52

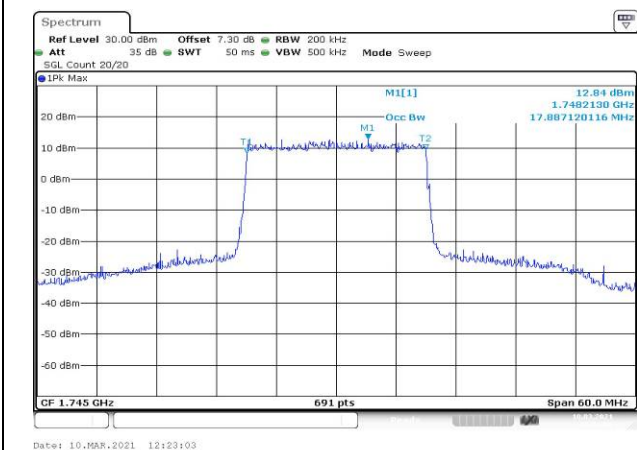


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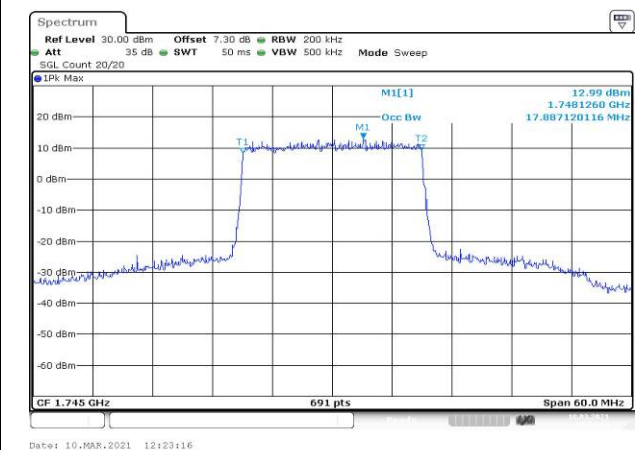


Fig.54

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	1.204	Fig.3
	1732.5	20175		6	0	1.204	Fig.4	1.204	Fig.5	1.228	Fig.6
	1754.3	20393		6	0	1.222	Fig.7	1.204	Fig.8	1.210	Fig.9
	1711.5	19965	3	15	0	2.931	Fig.10	2.944	Fig.11	2.931	Fig.12
	1732.5	20175		15	0	2.904	Fig.13	2.944	Fig.14	2.944	Fig.15
	1753.5	20385		15	0	2.931	Fig.16	2.931	Fig.17	2.944	Fig.18
	1712.5	19975	5	25	0	4.884	Fig.19	4.884	Fig.20	4.863	Fig.21
	1732.5	20175		25	0	4.884	Fig.22	4.884	Fig.23	4.884	Fig.24
	1752.5	20375		25	0	4.841	Fig.25	4.863	Fig.26	4.841	Fig.27
	1715	20000	10	50	0	9.551	Fig.28	9.508	Fig.29	9.595	Fig.30
	1732.5	20175		50	0	9.638	Fig.31	9.638	Fig.32	9.551	Fig.33
	1750	20350		50	0	9.638	Fig.34	9.595	Fig.35	9.595	Fig.36
	1717.5	20025	15	75	0	14.522	Fig.37	14.457	Fig.38	14.457	Fig.39
	1732.5	20175		75	0	14.522	Fig.40	14.522	Fig.41	14.588	Fig.42
	1747.5	20325		75	0	14.457	Fig.43	14.588	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	19.103	Fig.49	19.190	Fig.50	19.276	Fig.51
	1745	20300		100	0	19.103	Fig.52	19.016	Fig.53	19.190	Fig.54

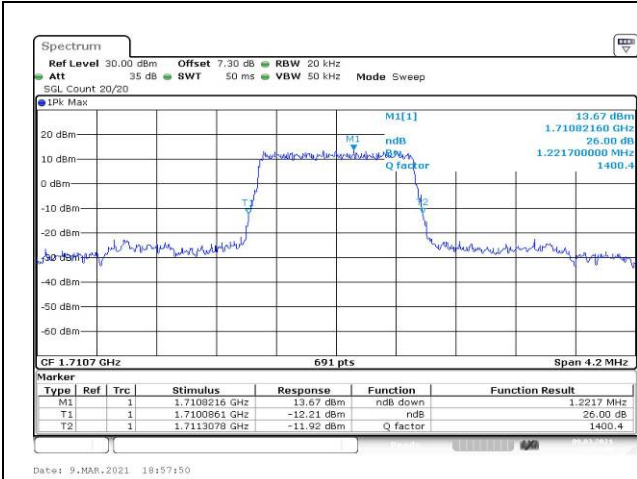


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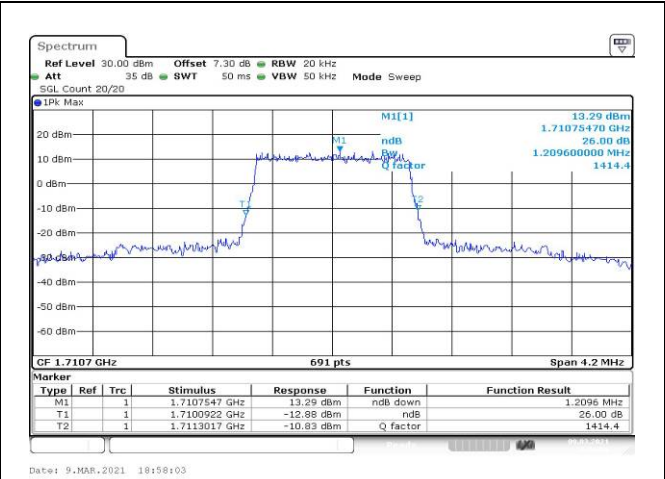


Fig.2

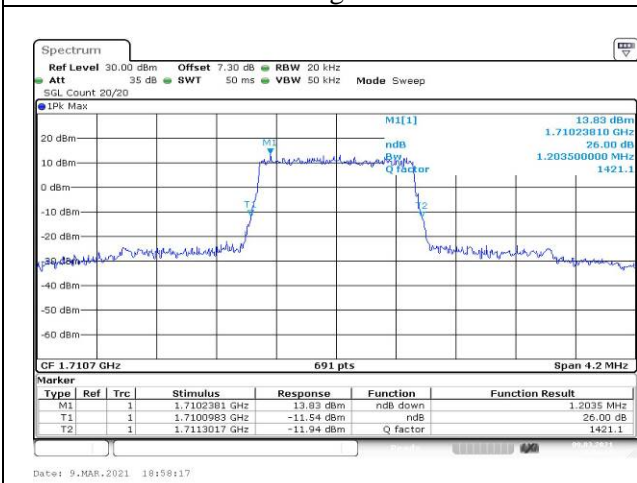


Fig.3

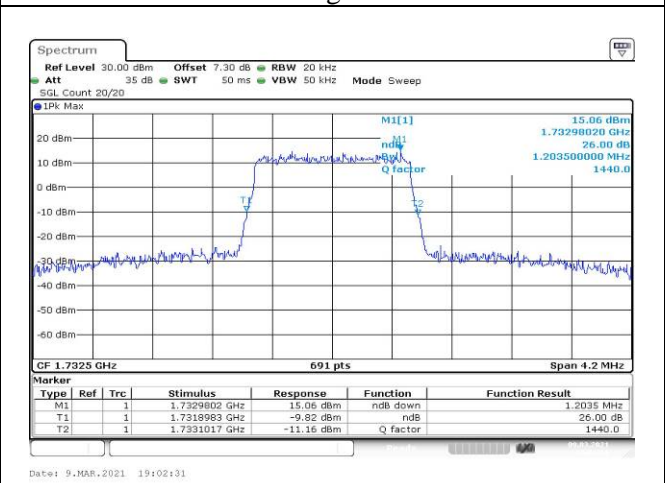


Fig.4

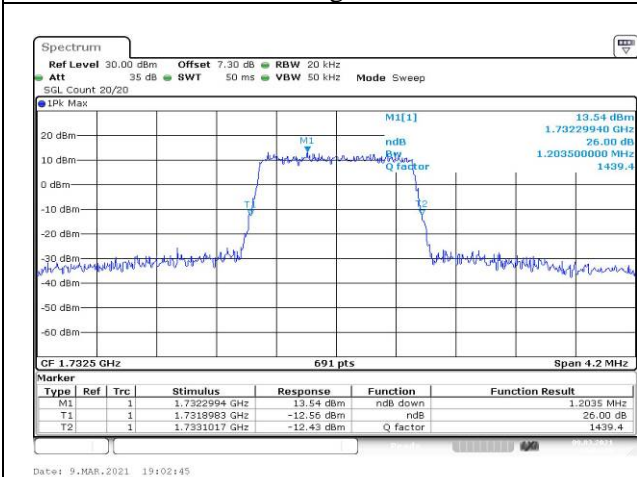


Fig.5

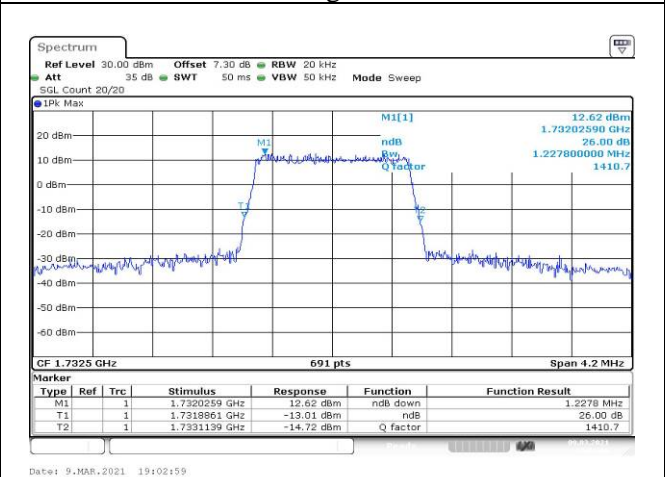


Fig.6

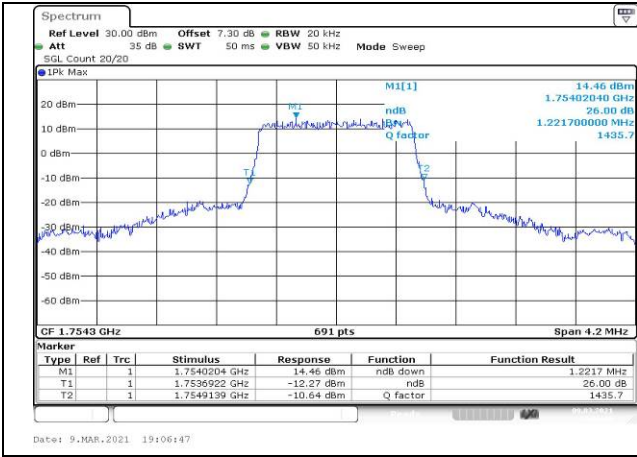


Fig.7

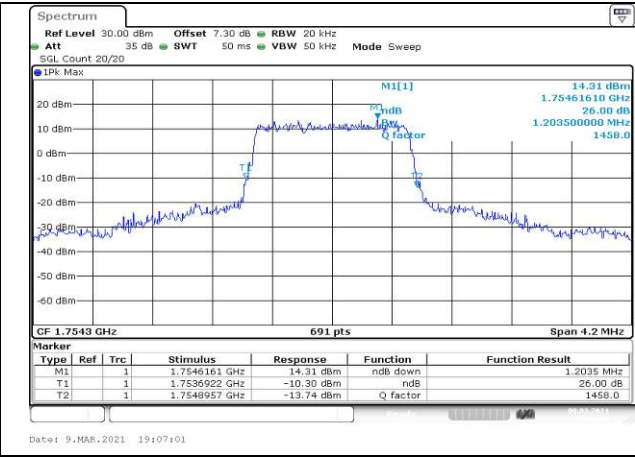


Fig.8

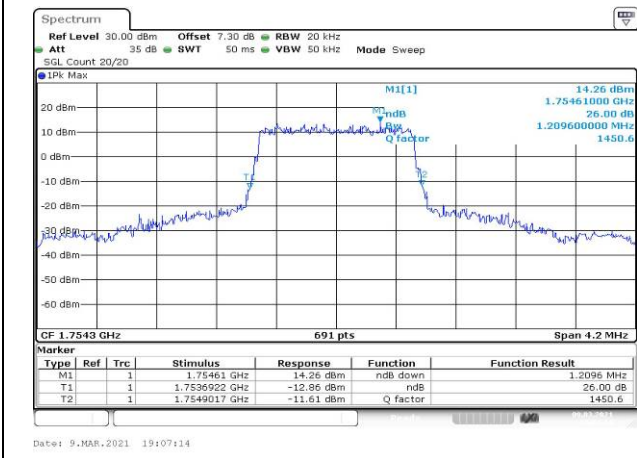


Fig.9

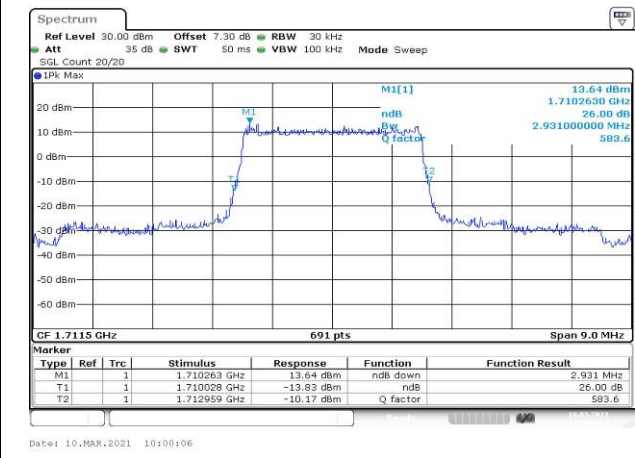


Fig.10

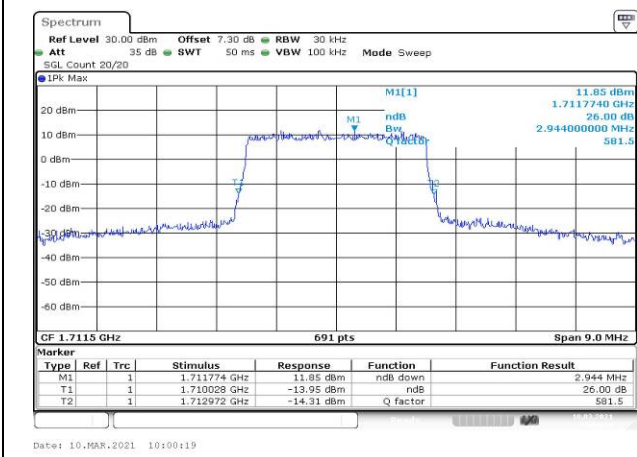


Fig.11

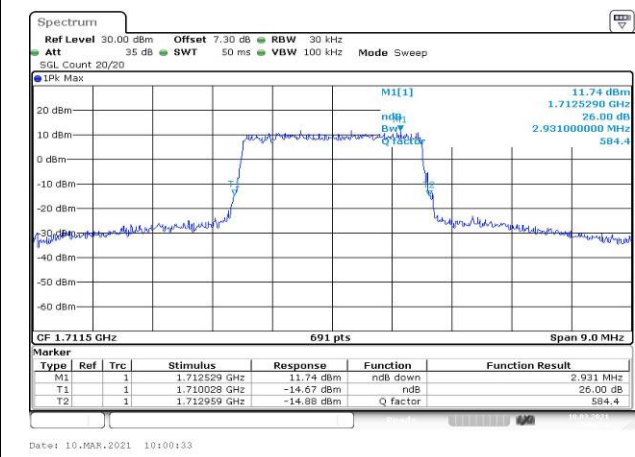
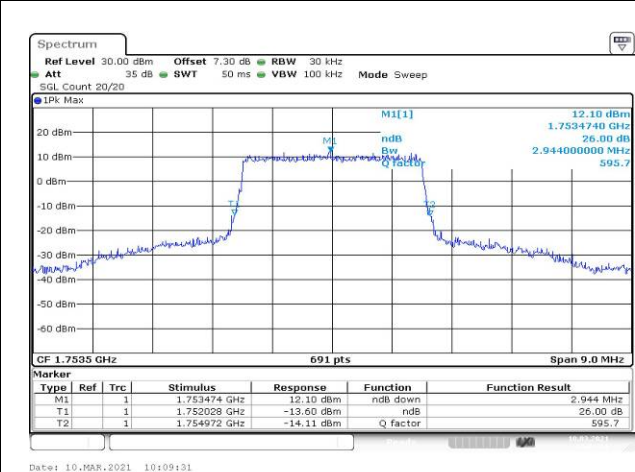
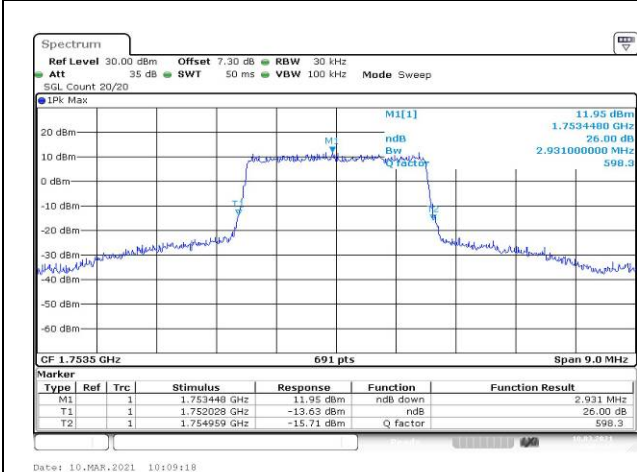
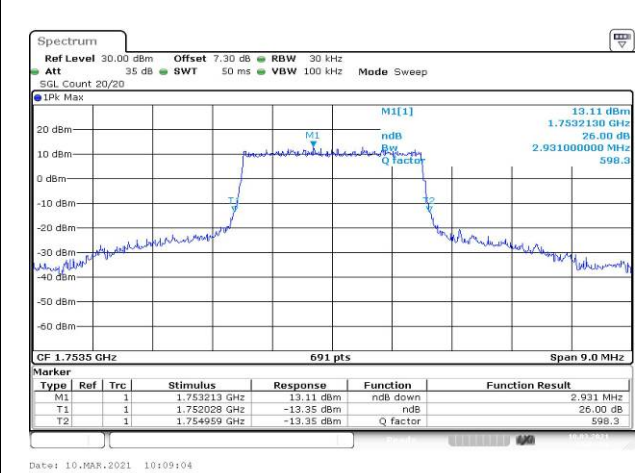
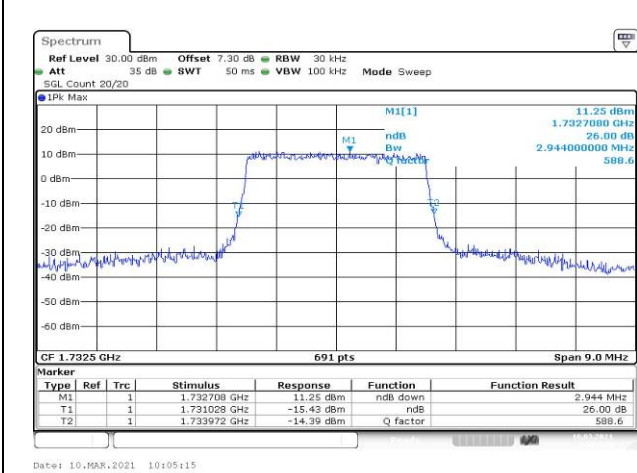
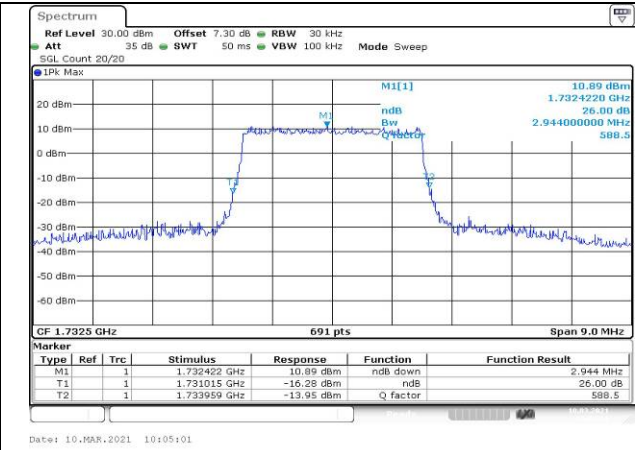
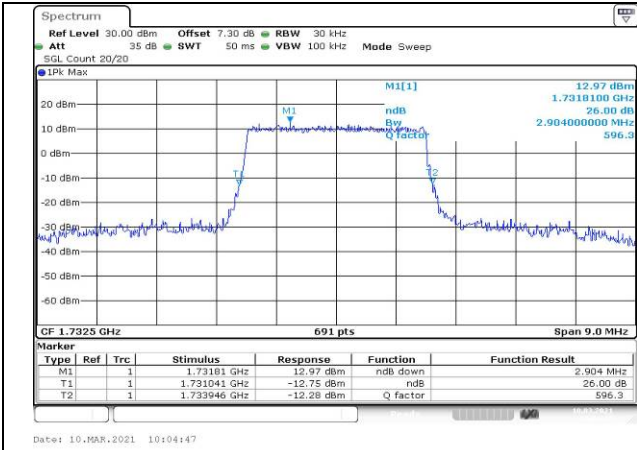


Fig.12



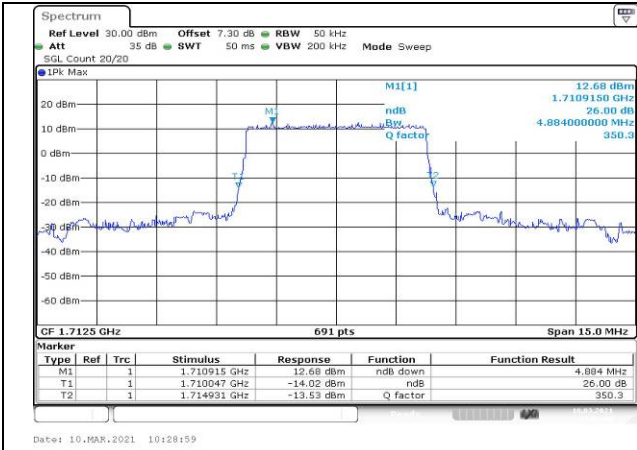


Fig.19

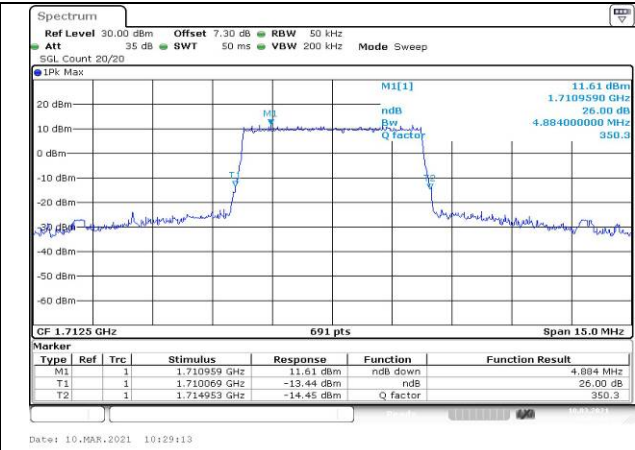


Fig.20

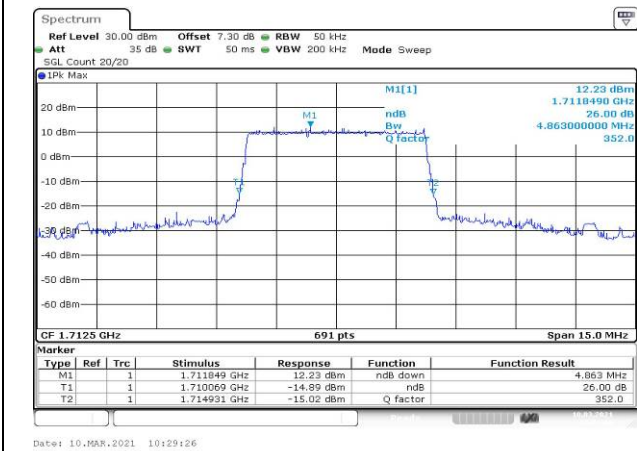


Fig.21

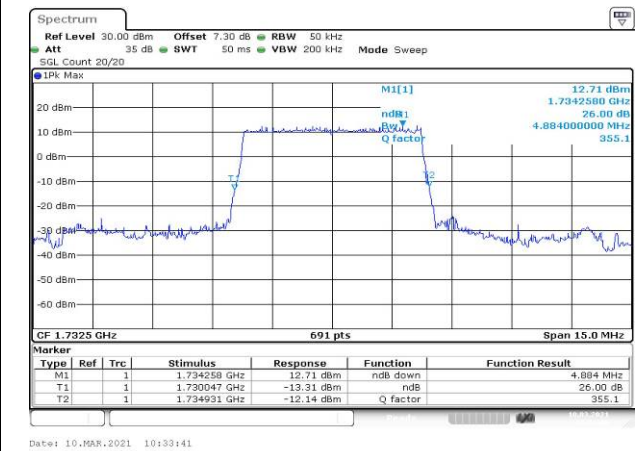


Fig.22

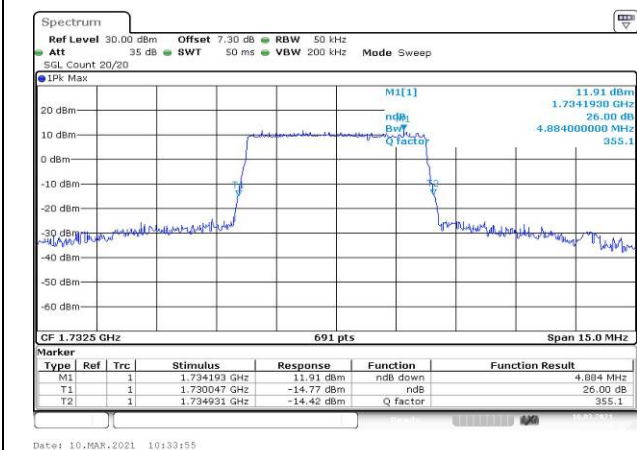


Fig.23

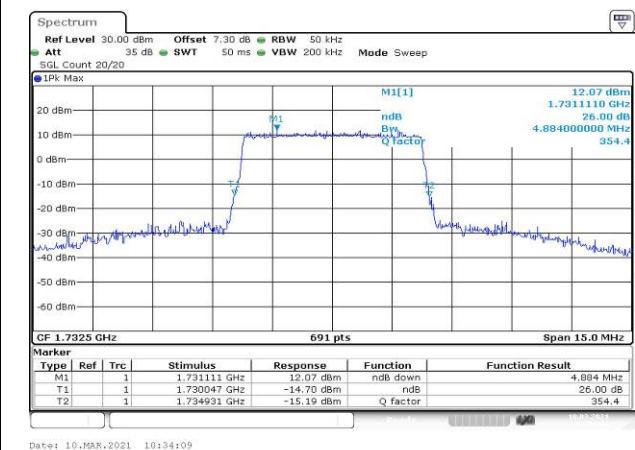


Fig.24

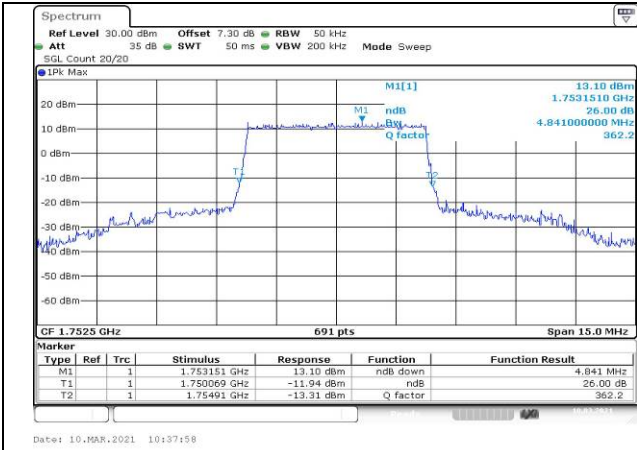


Fig.25

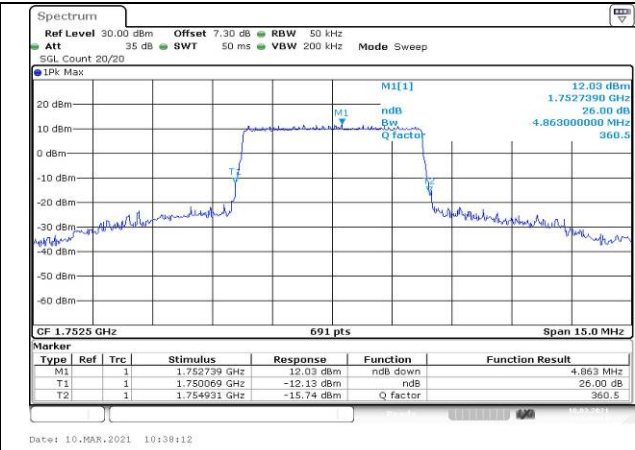


Fig.26

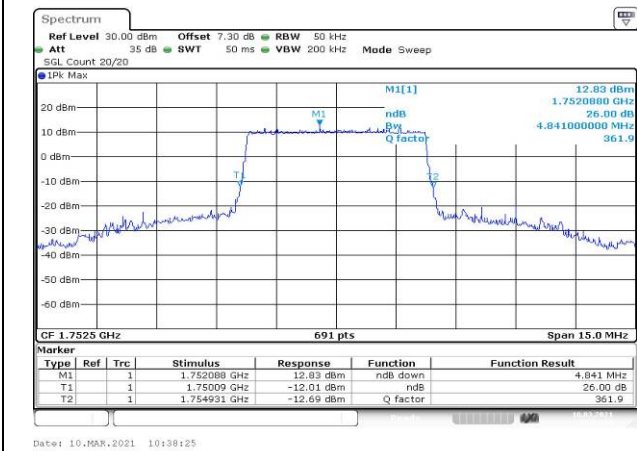


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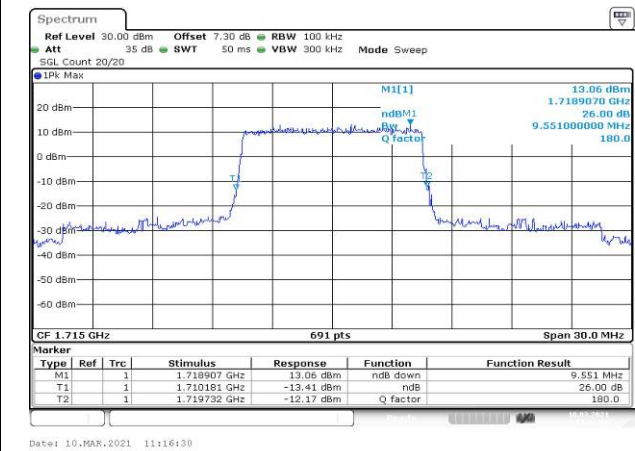


Fig.28

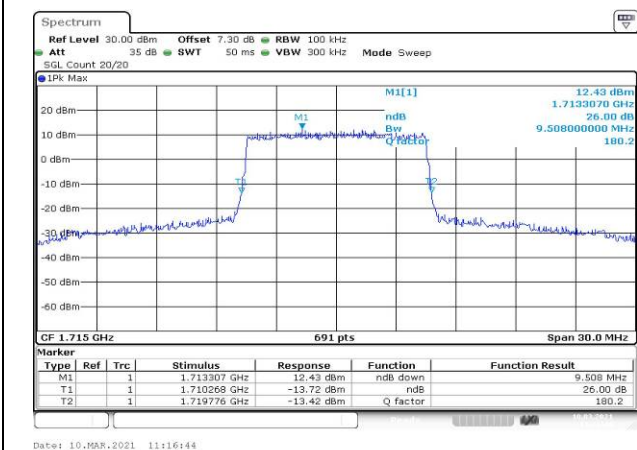


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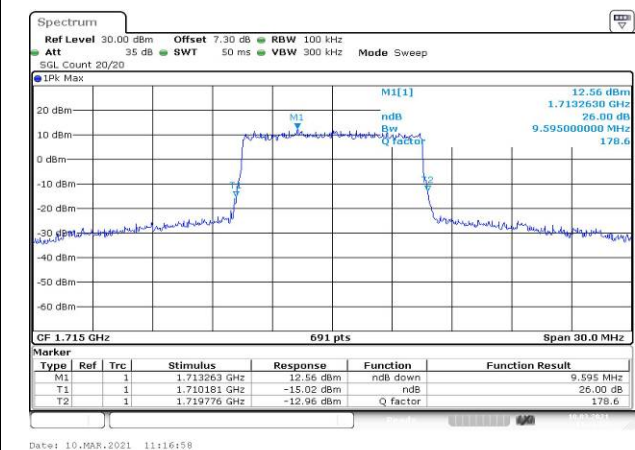


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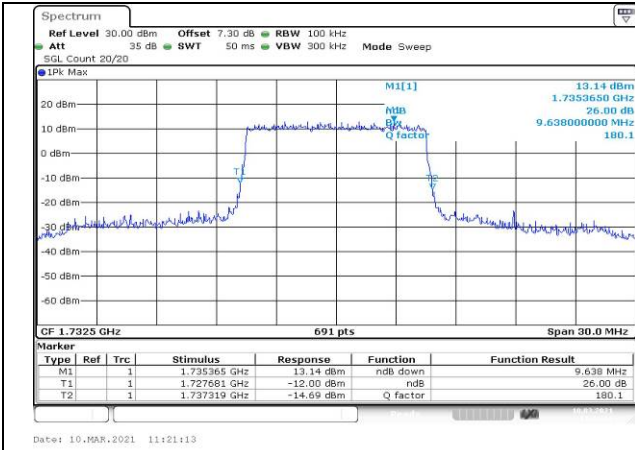


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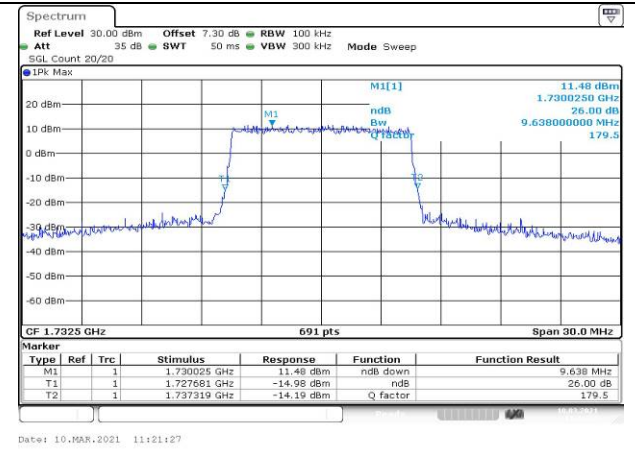


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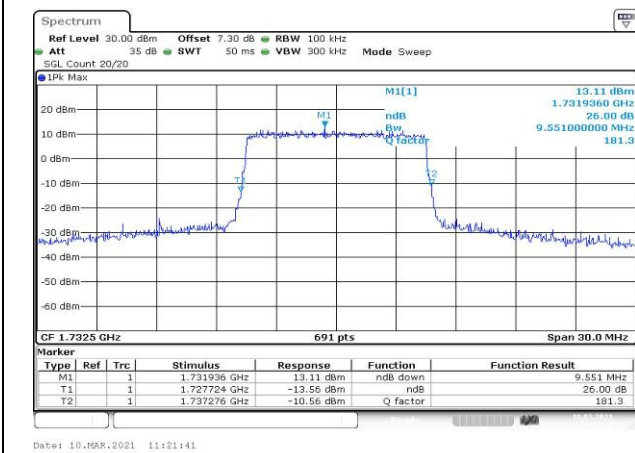


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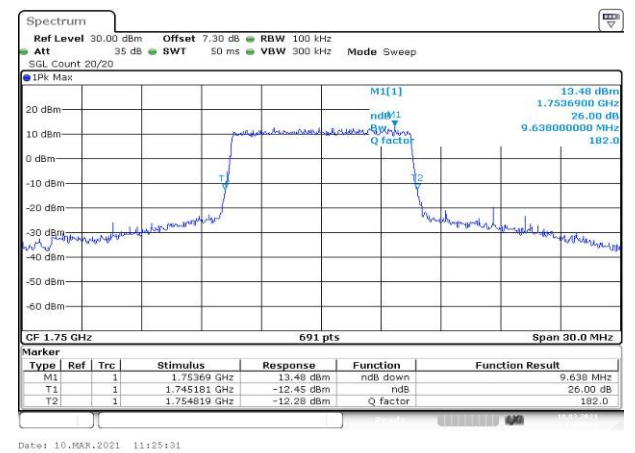


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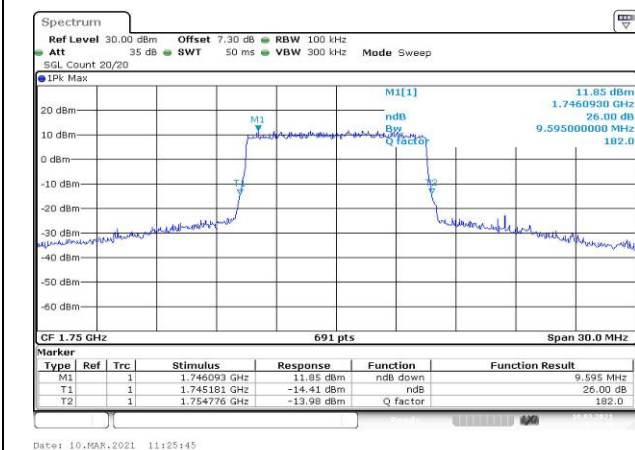


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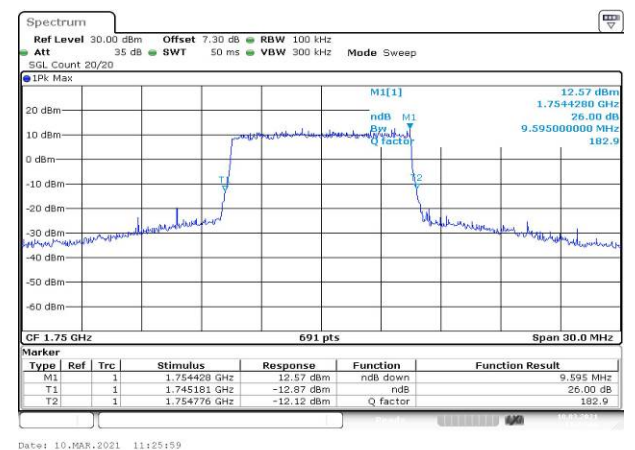


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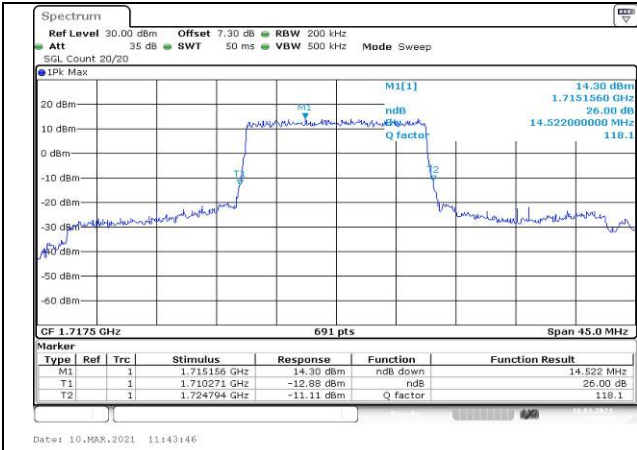


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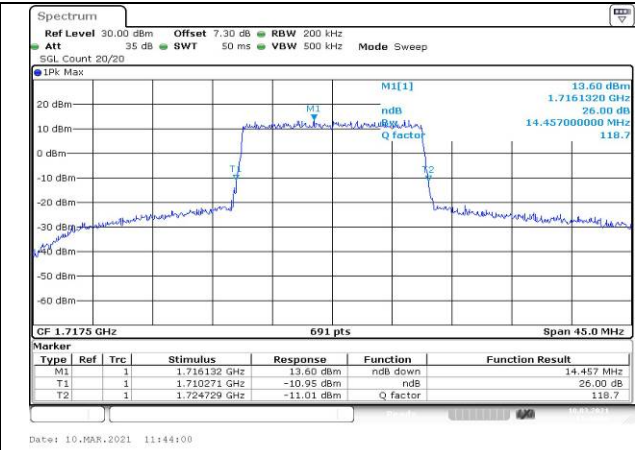


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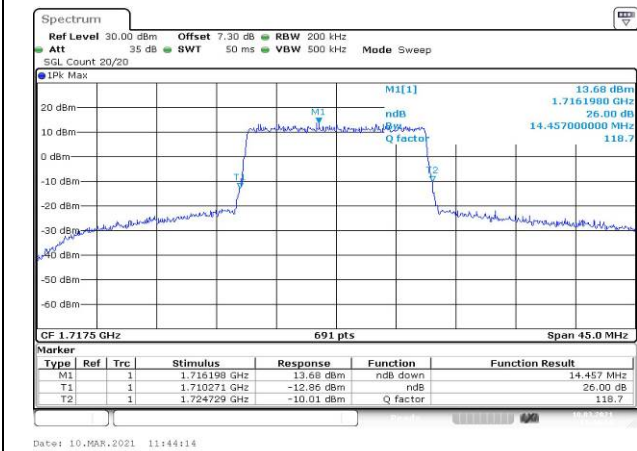


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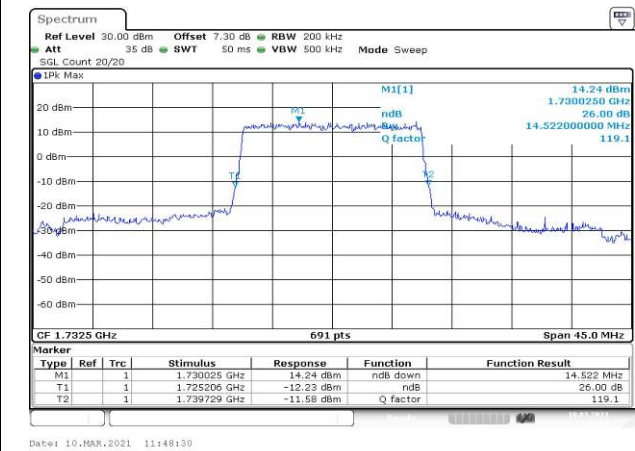


Fig.40

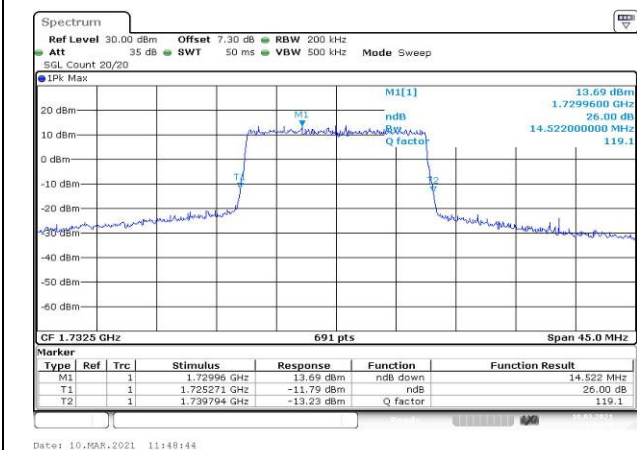


Fig.41

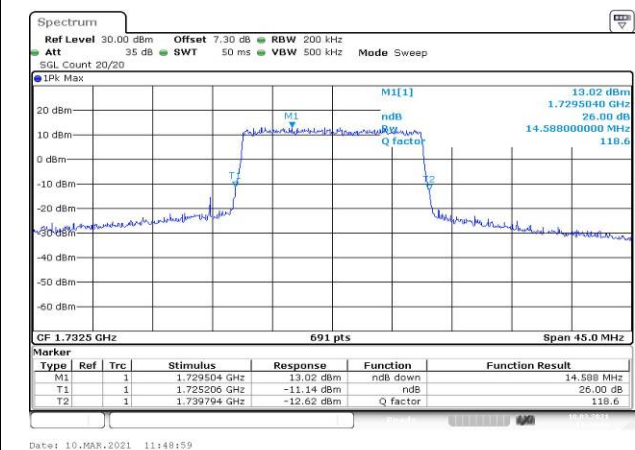


Fig.42