

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Tx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	699.7	23017	1.4	1	0	24.22	
				1	3	24.23	
				1	5	24.25	
				3	0	24.24	
				3	1	24.22	
				3	3	24.36	
				6	0	23.11	
	707.5	23095		1	0	24.13	
				1	3	24.19	
				1	5	24.17	
				3	0	24.21	
				3	1	24.33	
				3	3	24.31	
				6	0	23.35	
	715.3	23173		1	0	24.38	
				1	3	24.43	
				1	5	24.26	
				3	0	24.21	
				3	1	24.29	
				3	3	24.29	
				6	0	23.28	
	16QAM	699.7		23017	1	0	23.53
					1	3	23.59
					1	5	23.63
3					0	23.36	
3					1	23.30	
3					3	23.58	
6					0	22.54	
707.5		23095		1	0	24.12	
				1	3	23.53	
				1	5	23.53	
				3	0	23.30	
				3	1	23.27	
				3	3	23.28	
				6	0	22.64	
715.3		23173		1	0	23.06	
				1	3	23.07	
				1	5	23.02	
				3	0	23.36	
				3	1	23.40	
				3	3	23.40	
				6	0	22.40	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	699.7	23017	1.4	1	0	22.54
				1	3	22.42
				1	5	22.41
				3	0	22.41
				3	1	22.53
				3	3	22.52
				6	0	22.52
	707.5	23095		1	0	22.59
				1	3	22.59
				1	5	22.59
				3	0	22.59
				3	1	22.65
				3	3	22.42
				6	0	22.42
	715.3	23173		1	0	22.53
				1	3	22.40
				1	5	22.40
				3	0	22.40
				3	1	22.54
				3	3	22.50
				6	0	22.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	24.32
				1	8	24.24
				1	14	24.23
				8	0	23.27
				8	4	23.31
				8	7	23.32
				15	0	23.30
	707.5	23095		1	0	24.39
				1	8	24.17
				1	14	24.15
				8	0	23.21
				8	4	23.29
				8	7	23.28
				15	0	23.16
	714.5	23165		1	0	24.51
				1	8	24.28
				1	14	24.43
				8	0	23.29
				8	4	23.25
				8	7	23.25
				15	0	23.23
16QAM	700.5	23025	1	0	23.54	
			1	8	23.64	
			1	14	23.60	
			8	0	22.51	
			8	4	22.58	
			8	7	22.59	
			15	0	22.45	
	707.5	23095	1	0	23.46	
			1	8	23.51	
			1	14	23.51	
			8	0	22.45	
			8	4	22.46	
			8	7	22.47	
			15	0	22.35	
	714.5	23165	1	0	22.98	
			1	8	22.93	
			1	14	22.93	
			8	0	22.57	
			8	4	22.55	
			8	7	22.55	
			15	0	22.29	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	700.5	23025	3	1	0	22.45
				1	8	22.45
				1	14	22.45
				8	0	22.46
				8	4	22.45
				8	7	22.45
				15	0	22.45
	707.5	23095		1	0	22.30
				1	8	22.41
				1	14	22.46
				8	0	22.47
				8	4	22.27
				8	7	22.30
				15	0	22.42
	714.5	23165		1	0	22.30
				1	8	22.38
				1	14	22.30
				8	0	22.30
				8	4	22.30
				8	7	22.31
				15	0	22.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	701.5	23035	5	1	0	24.33	
				1	12	24.22	
				1	24	24.21	
				12	0	23.33	
				12	7	23.33	
				12	13	23.33	
				25	0	23.20	
	707.5	23095		1	0	24.21	
				1	12	24.24	
				1	24	24.23	
				12	0	23.29	
				12	7	23.15	
				12	13	23.15	
				25	0	23.33	
	713.5	23155		1	0	24.08	
				1	12	24.12	
				1	24	24.15	
				12	0	23.27	
				12	7	23.31	
				12	13	23.31	
				25	0	23.23	
	16QAM	701.5		23035	1	0	22.51
					1	12	22.49
					1	24	22.49
12					0	22.29	
12					7	22.34	
12					13	22.34	
25					0	22.51	
707.5		23095	1	0	22.92		
			1	12	23.31		
			1	24	23.31		
			12	0	22.31		
			12	7	22.38		
			12	13	22.38		
			25	0	22.37		
713.5		23155	1	0	22.88		
			1	12	22.96		
			1	24	22.96		
			12	0	22.26		
			12	7	22.30		
			12	13	22.30		
			25	0	22.26		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	701.5	23035	5	1	0	22.52
				1	12	22.52
				1	24	22.52
				12	0	22.52
				12	7	22.52
				12	13	22.52
				25	0	22.52
	707.5	23095		1	0	22.37
				1	12	22.37
				1	24	22.37
				12	0	22.37
				12	7	22.37
				12	13	22.37
				25	0	22.37
	713.5	23155		1	0	22.27
				1	12	22.27
				1	24	22.55
				12	0	22.54
				12	7	22.54
				12	13	22.54
				25	0	22.54

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	24.26
				1	25	24.04
				1	49	24.18
				25	0	23.24
				25	12	23.25
				25	25	23.25
				50	0	23.28
	707.5	23095		1	0	24.27
				1	25	24.19
				1	49	24.25
				25	0	23.18
				25	12	23.26
				25	25	23.26
				50	0	23.28
	711	23130		1	0	24.19
				1	25	24.32
				1	49	24.32
				25	0	23.18
				25	12	23.31
				25	25	23.32
				50	0	23.13
16QAM	704	23060		1	0	23.75
				1	25	23.65
				1	49	23.49
				25	0	22.40
				25	12	22.29
				25	25	22.42
				50	0	22.47
	707.5	23095	1	0	23.48	
			1	25	23.49	
			1	49	23.50	
			25	0	22.41	
			25	12	22.39	
			25	25	22.55	
			50	0	22.48	
	711	23130	1	0	22.90	
			1	25	22.83	
			1	49	22.83	
			25	0	22.51	
			25	12	22.49	
			25	25	22.50	
			50	0	22.41	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	704	23060	10	1	0	22.48
				1	25	22.48
				1	49	22.48
				25	0	22.32
				25	12	22.32
				25	25	22.32
				50	0	22.32
	707.5	23095		1	0	22.48
				1	25	22.47
				1	49	22.47
				25	0	22.47
				25	12	22.47
				25	25	22.48
				50	0	22.47
	711	23130		1	0	22.41
				1	25	22.41
				1	49	22.42
				25	0	22.42
				25	12	22.43
				25	25	22.43
				50	0	22.42

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
12	699.7	23017	1.4	6	0	1.082	Fig.1	1.094	Fig.2	1.088	Fig.3
	707.5	23095		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	715.3	23173		6	0	1.088	Fig.7	1.088	Fig.8	1.094	Fig.9
	700.5	23025	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	707.5	23095		15	0	2.683	Fig.13	2.696	Fig.14	2.683	Fig.15
	714.5	23165		15	0	2.696	Fig.16	2.696	Fig.17	2.696	Fig.18
	701.5	23035	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	707.5	23095		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	713.5	23155		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	704	23060	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	707.5	23095		50	0	8.944	Fig.31	8.987	Fig.32	8.987	Fig.33
	711	23130		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36

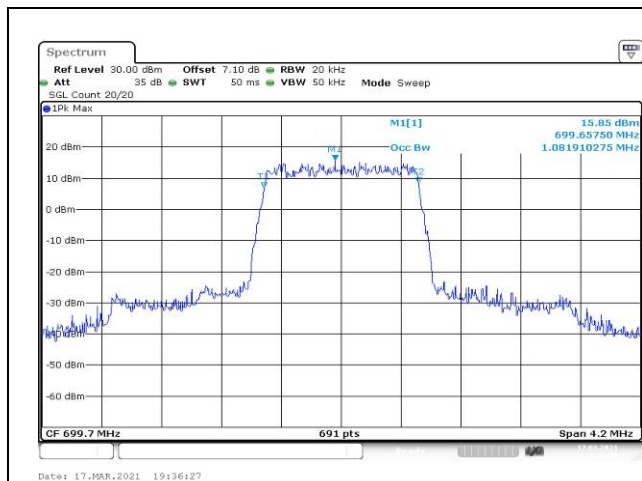


Fig.1

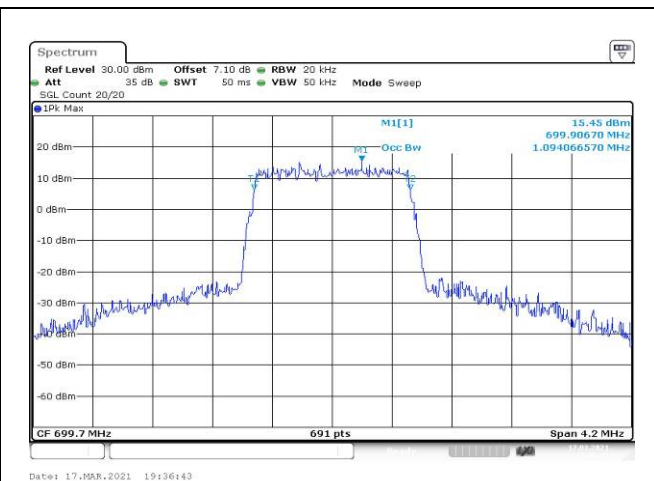


Fig.2

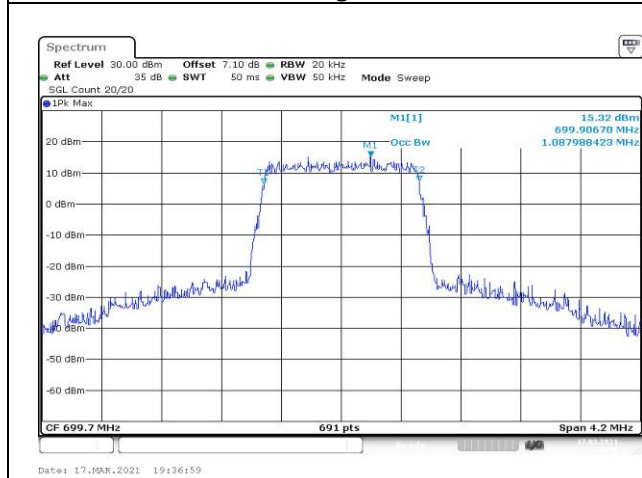


Fig.3

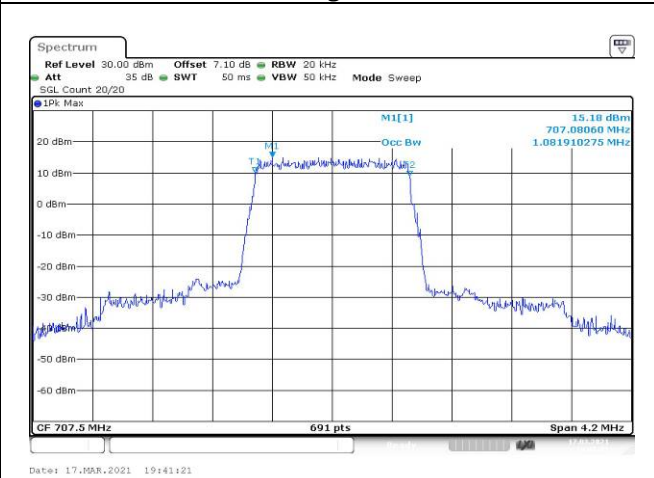


Fig.4

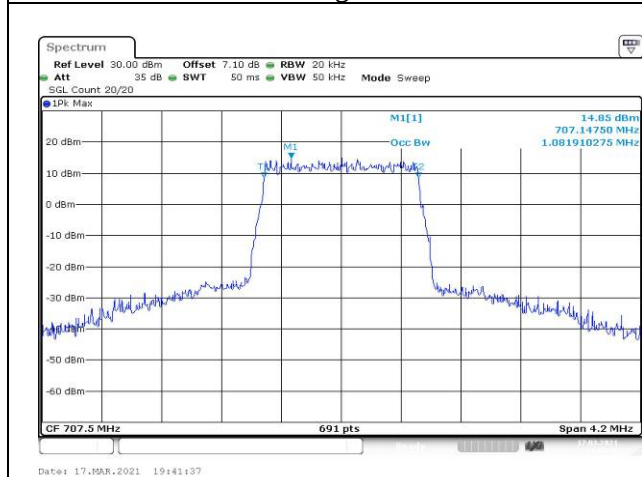


Fig.5

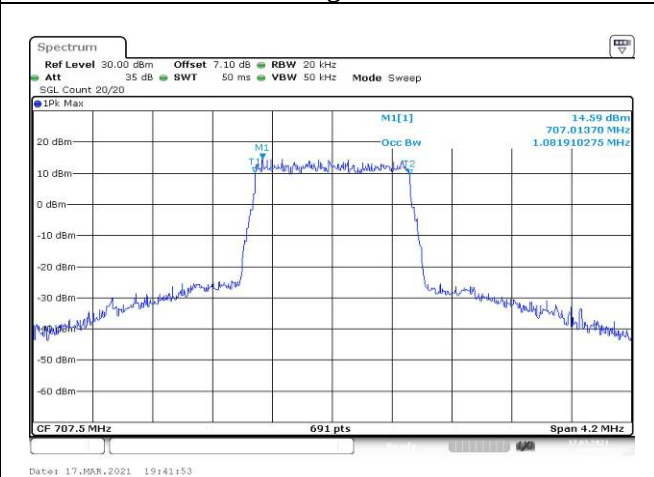


Fig.6

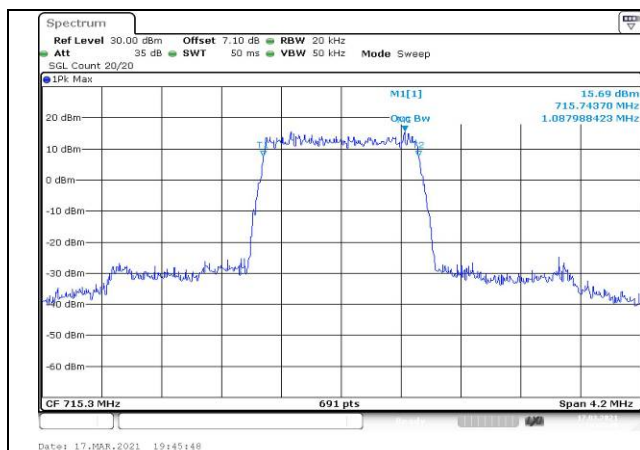


Fig.7

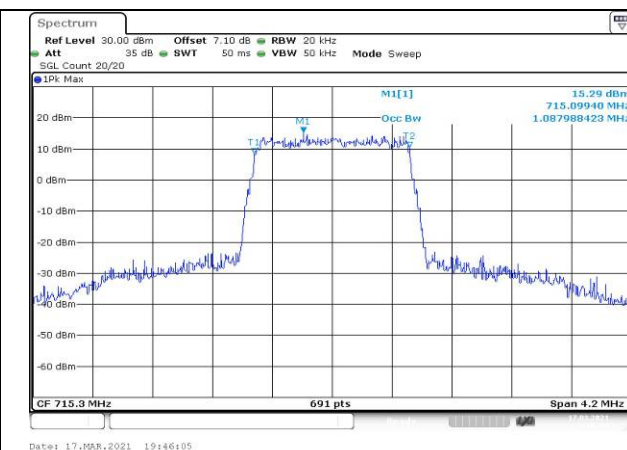


Fig.8

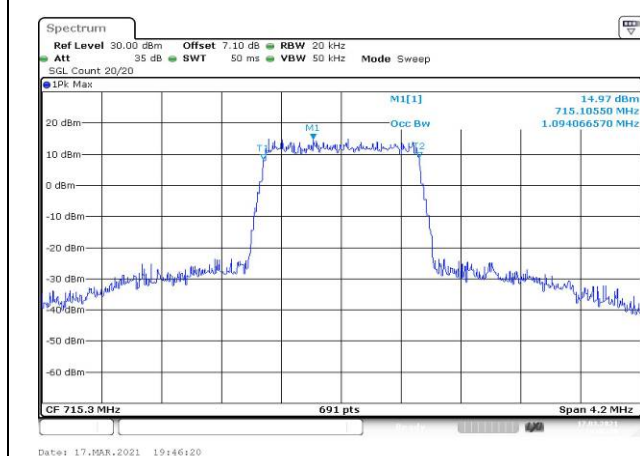


Fig.9

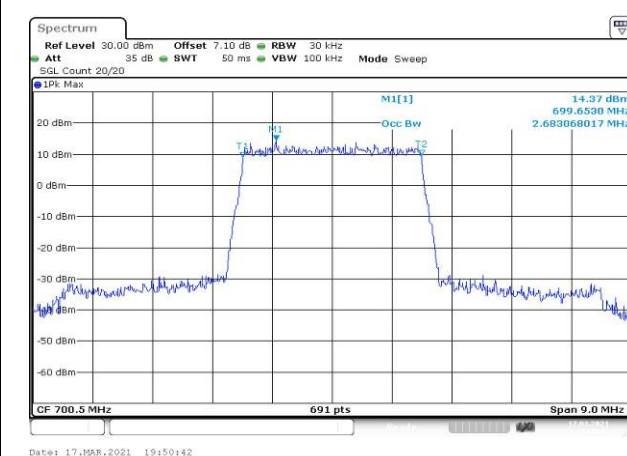


Fig.10

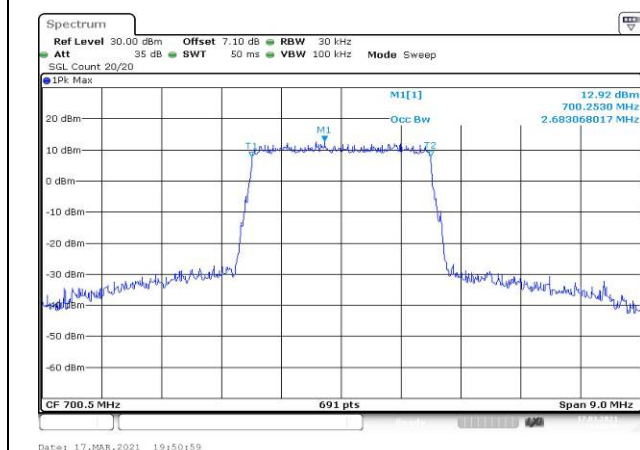


Fig.11

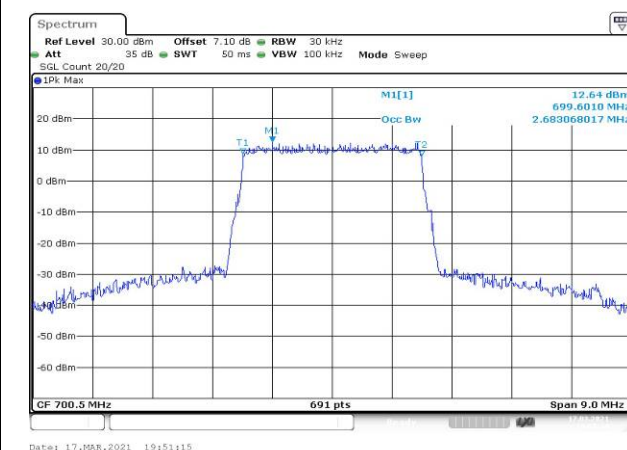


Fig.12

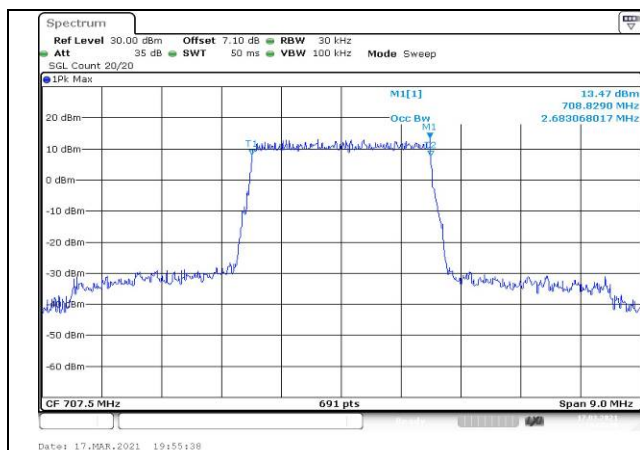


Fig.13

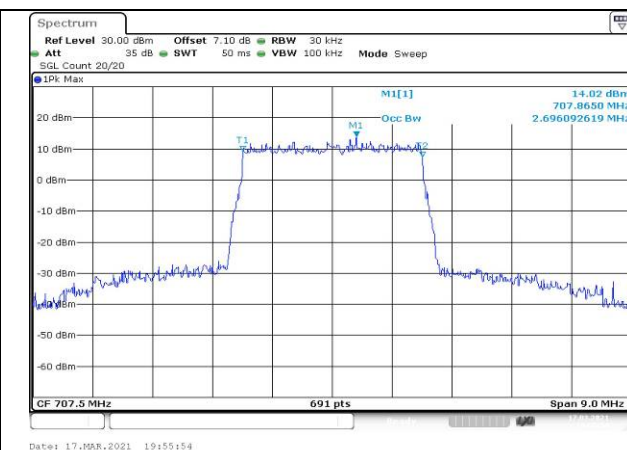


Fig.14

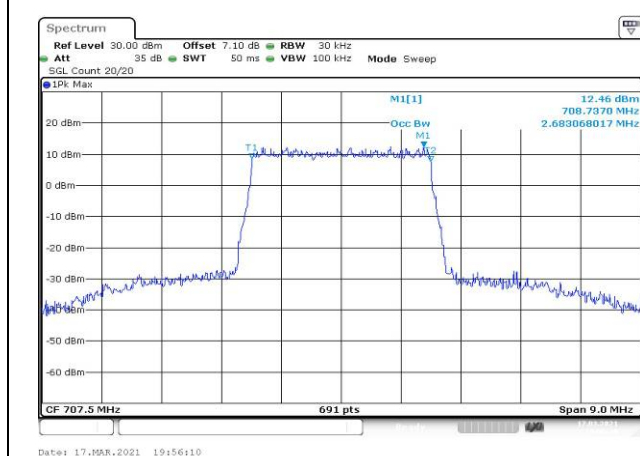


Fig.15

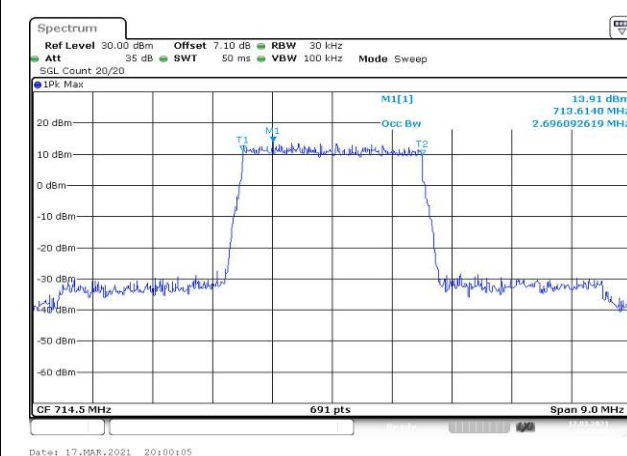


Fig.16

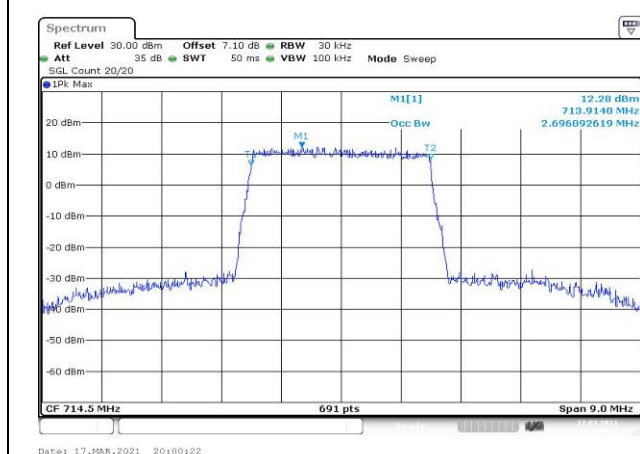


Fig.17

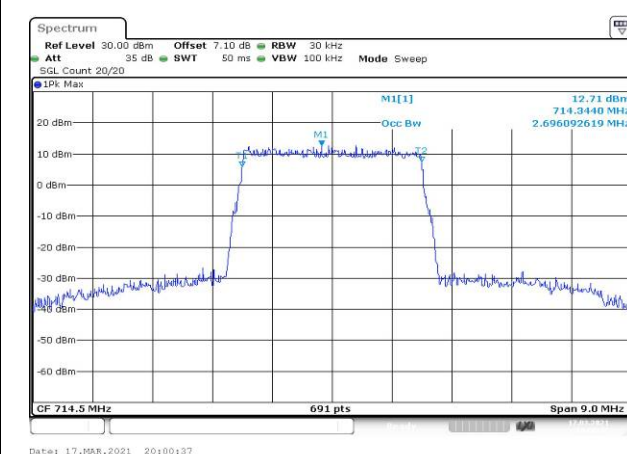
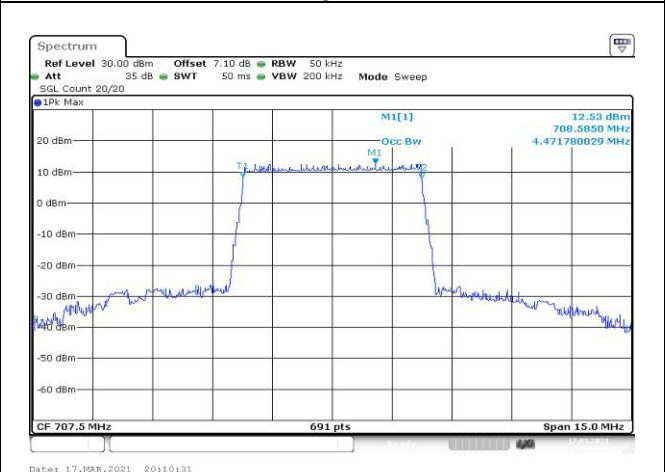
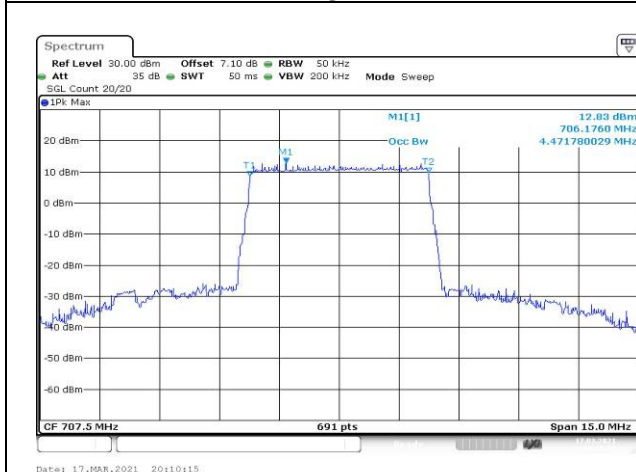
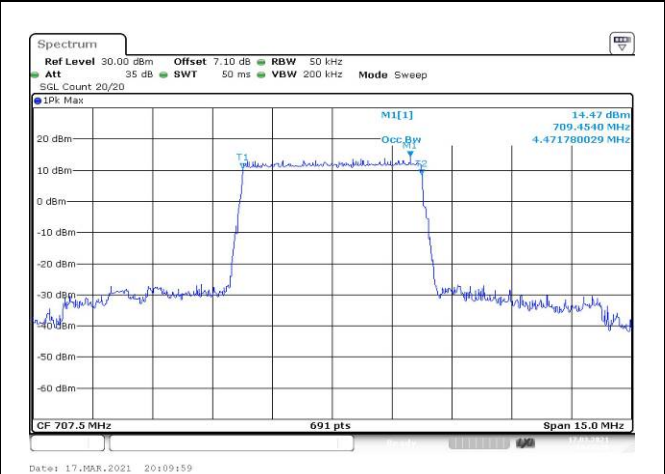
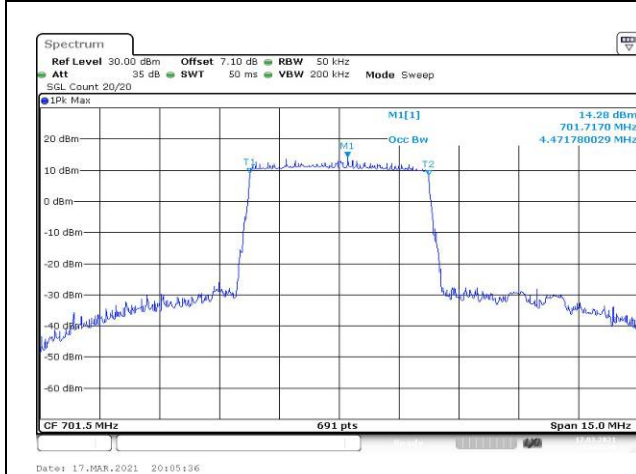
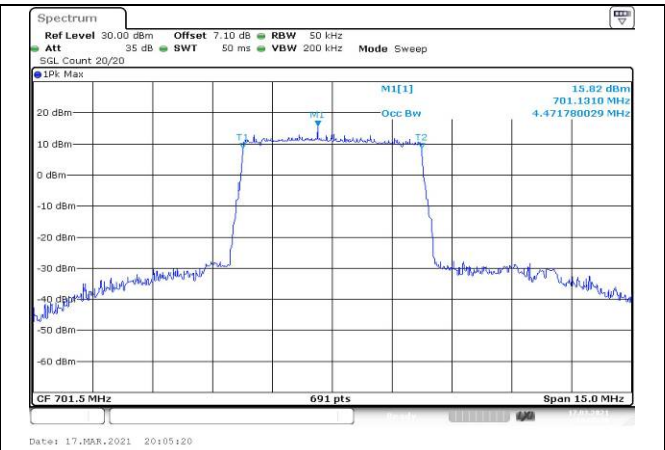
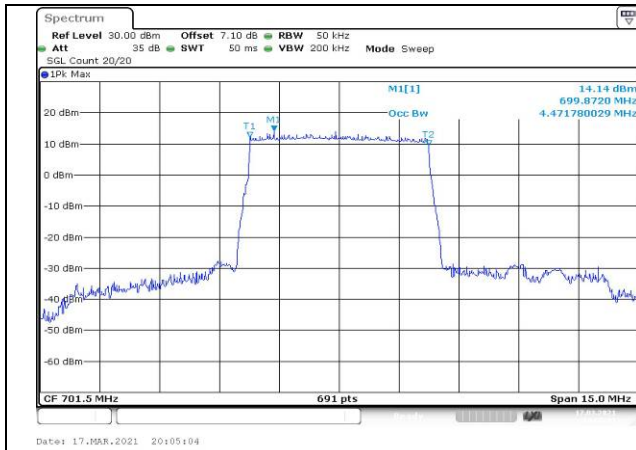


Fig.18



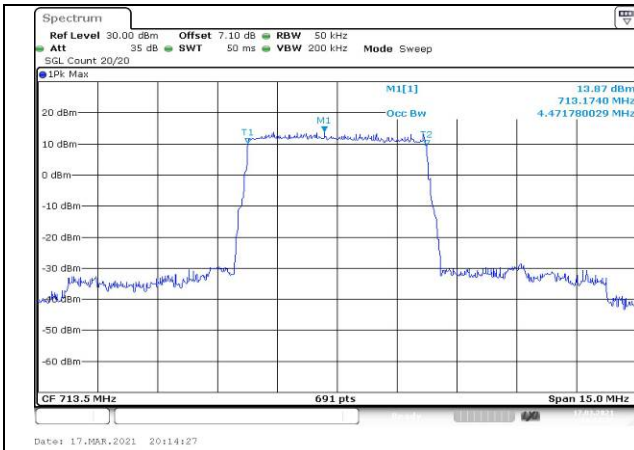


Fig.25

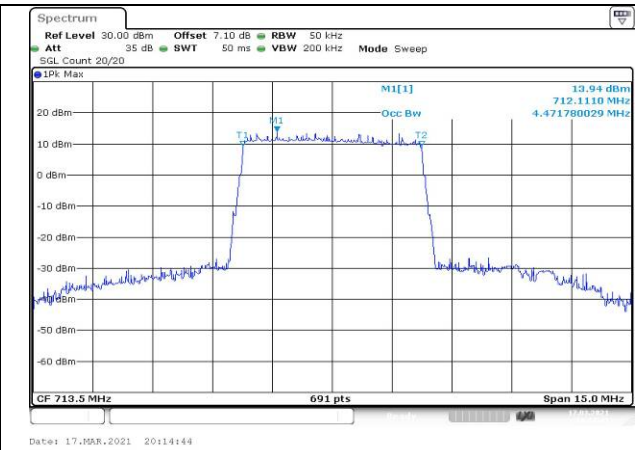


Fig.26

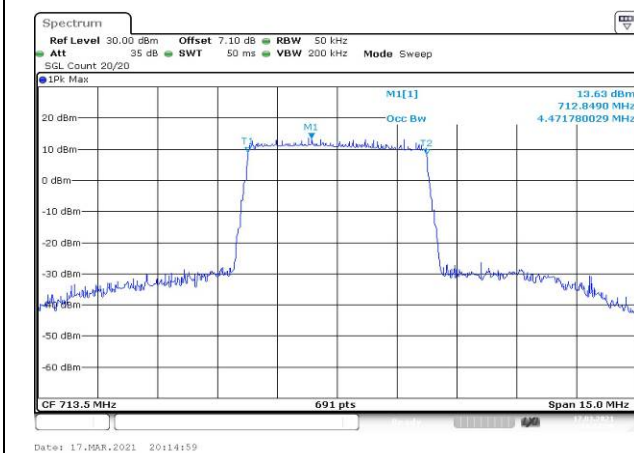


Fig.27

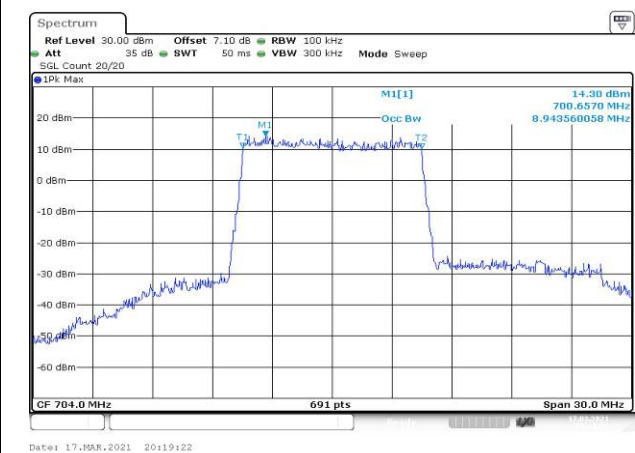


Fig.28

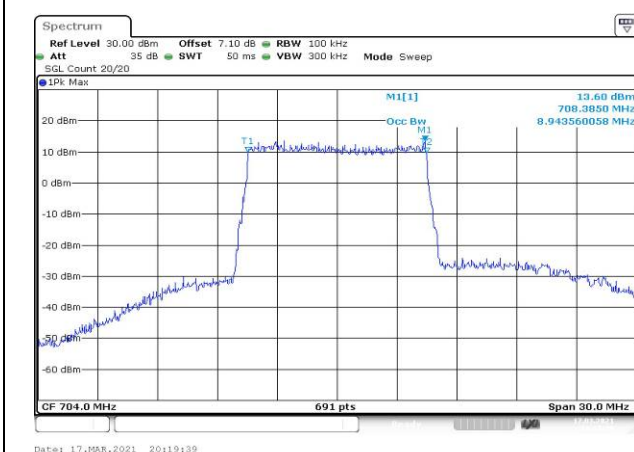


Fig.29

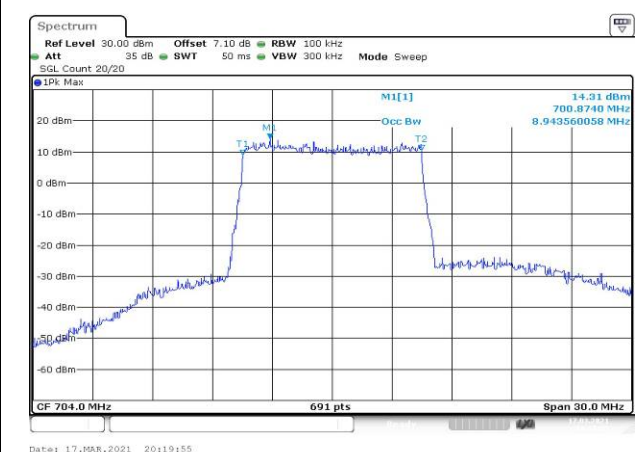


Fig.30

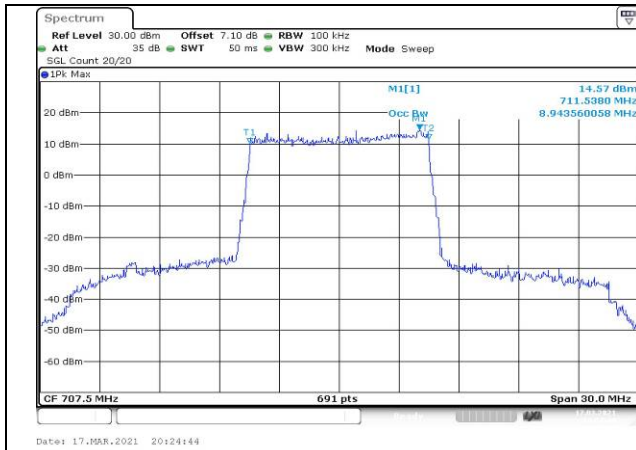


Fig.31

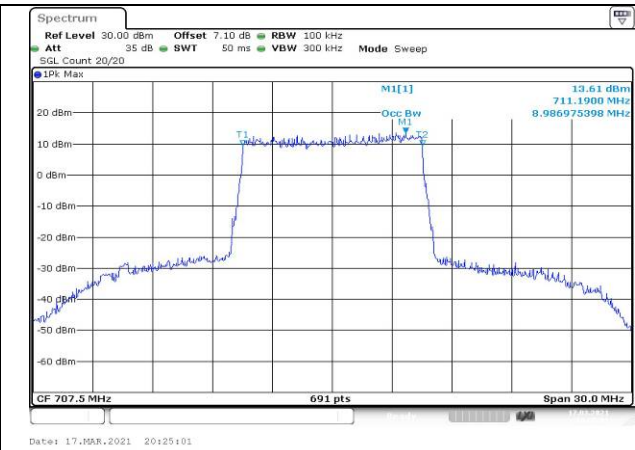


Fig.32

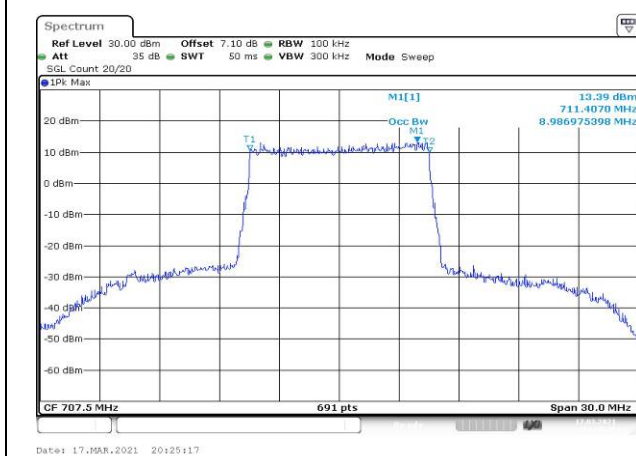


Fig.33

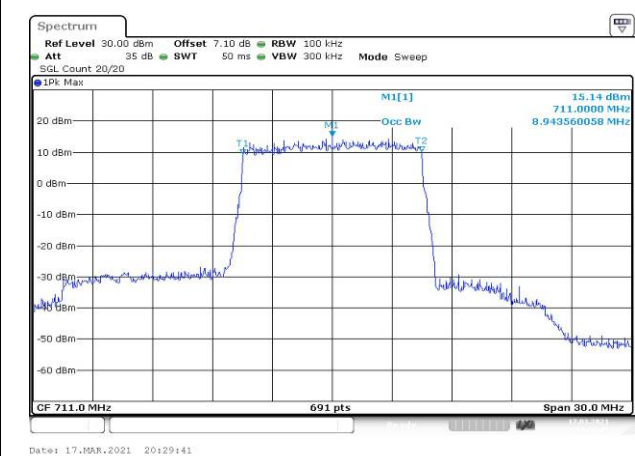


Fig.34

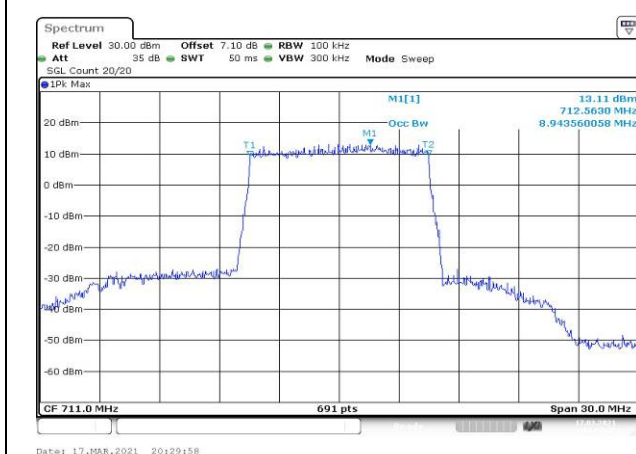


Fig.35

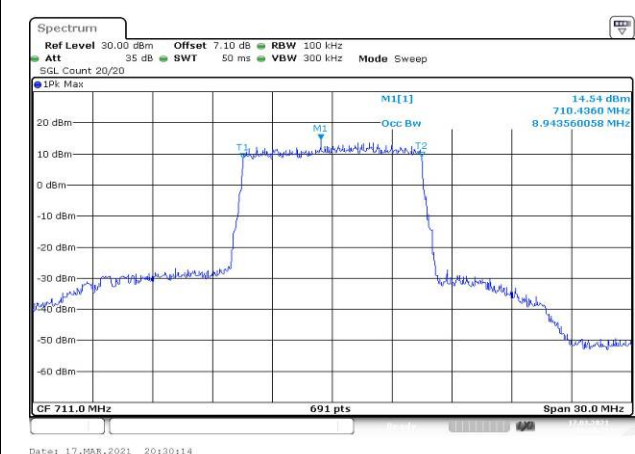


Fig.36

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	
12	699.7	23017	1.4	6	0	1.228	Fig.1	1.234	Fig.2	1.240	Fig.3
	707.5	23095		6	0	1.228	Fig.4	1.228	Fig.5	1.228	Fig.6
	715.3	23173		6	0	1.228	Fig.7	1.222	Fig.8	1.222	Fig.9
	700.5	23025	3	15	0	2.970	Fig.10	2.970	Fig.11	2.931	Fig.12
	707.5	23095		15	0	2.957	Fig.13	2.983	Fig.14	2.983	Fig.15
	714.5	23165		15	0	2.996	Fig.16	2.970	Fig.17	2.957	Fig.18
	701.5	23035	5	25	0	4.863	Fig.19	4.841	Fig.20	4.841	Fig.21
	707.5	23095		25	0	4.906	Fig.22	4.906	Fig.23	4.884	Fig.24
	713.5	23155		25	0	4.884	Fig.25	4.906	Fig.26	4.863	Fig.27
	704	23060	10	50	0	9.638	Fig.28	9.725	Fig.29	9.682	Fig.30
	707.5	23095		50	0	9.682	Fig.31	9.682	Fig.32	9.725	Fig.33
	711	23130		50	0	9.595	Fig.34	9.768	Fig.35	9.682	Fig.36

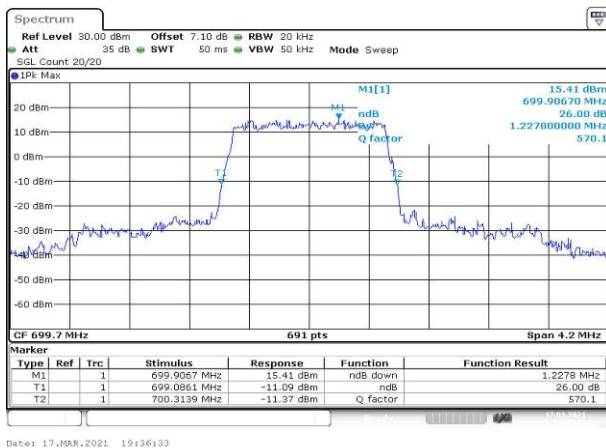


Fig.1

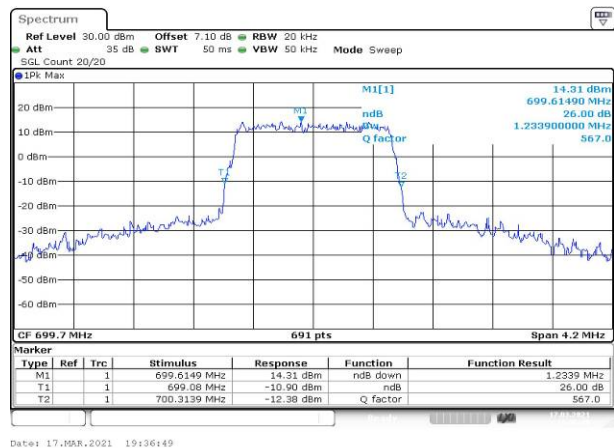


Fig.2

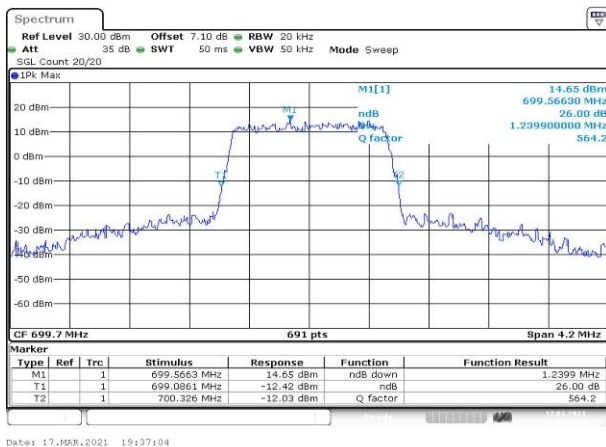


Fig.3

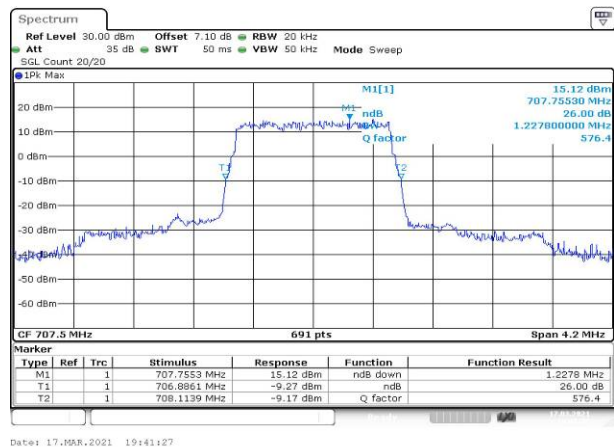


Fig.4

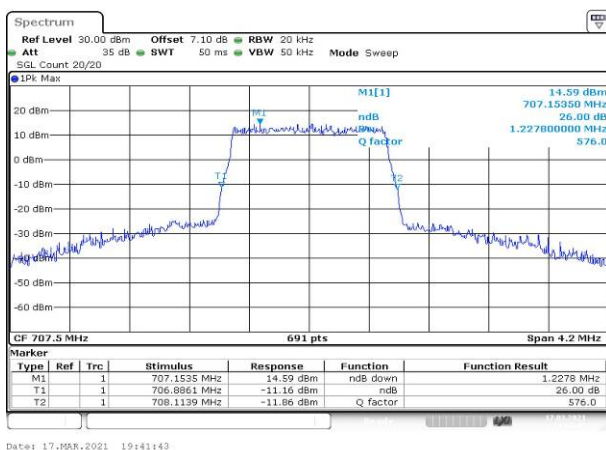


Fig.5

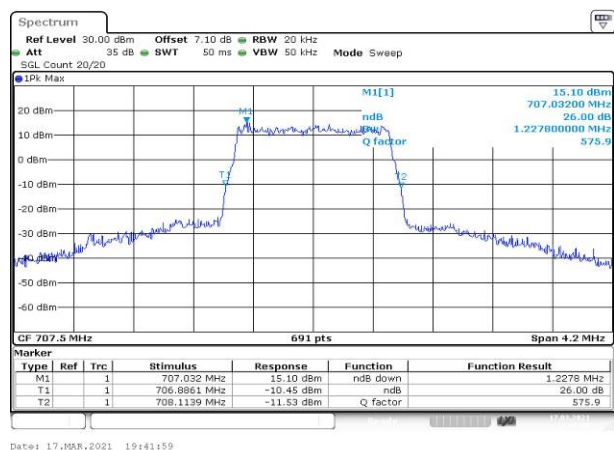


Fig.6

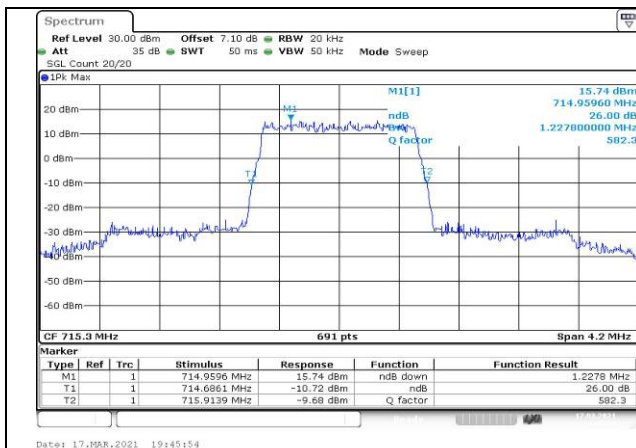


Fig.7

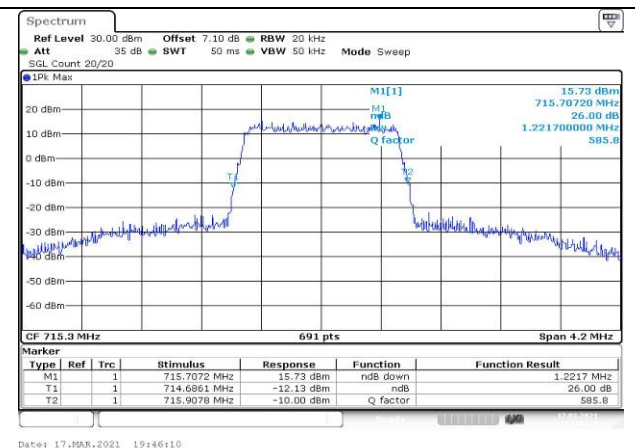


Fig.8

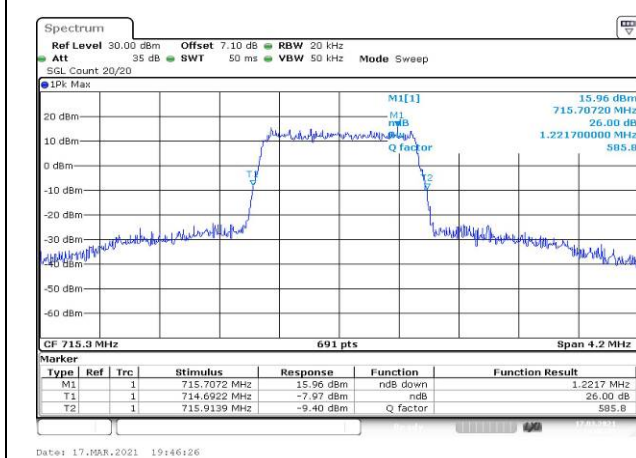


Fig.9

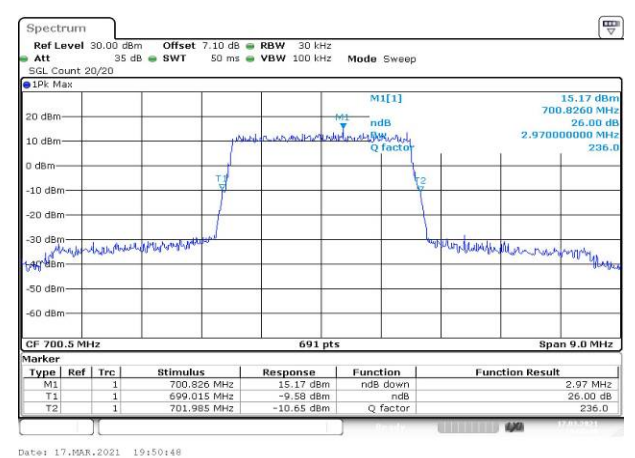


Fig.10

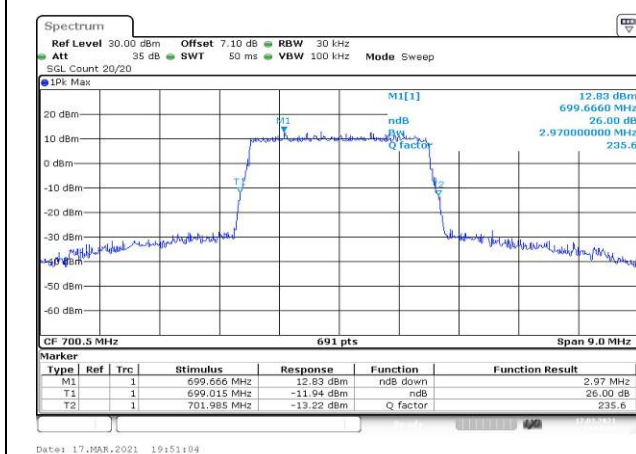


Fig.11

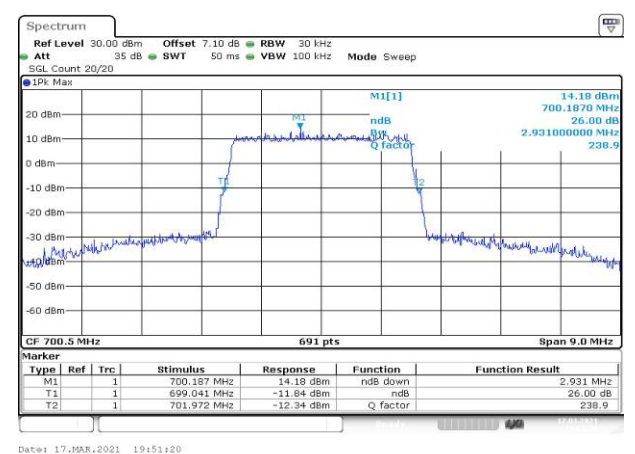


Fig.12

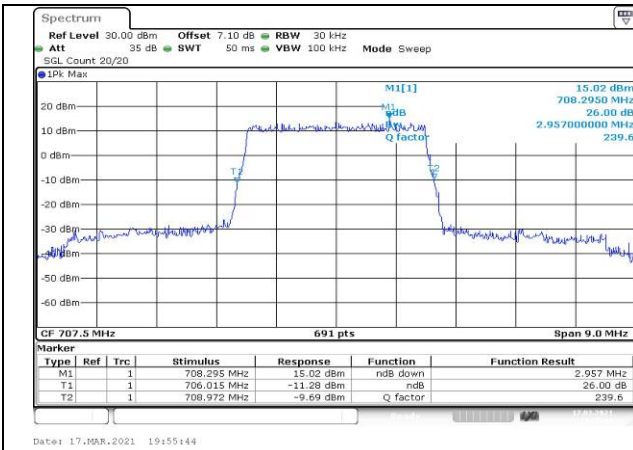


Fig.13

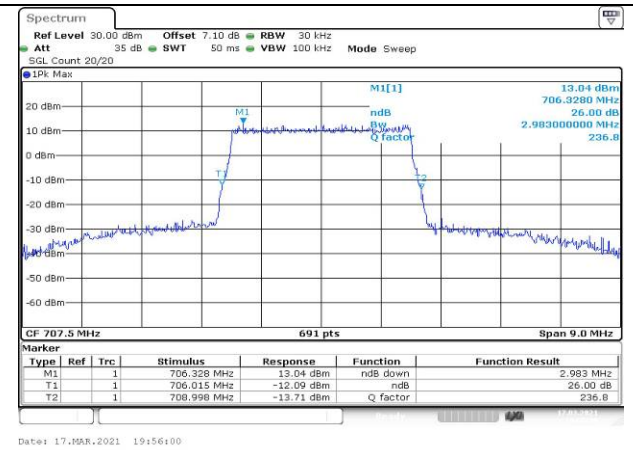


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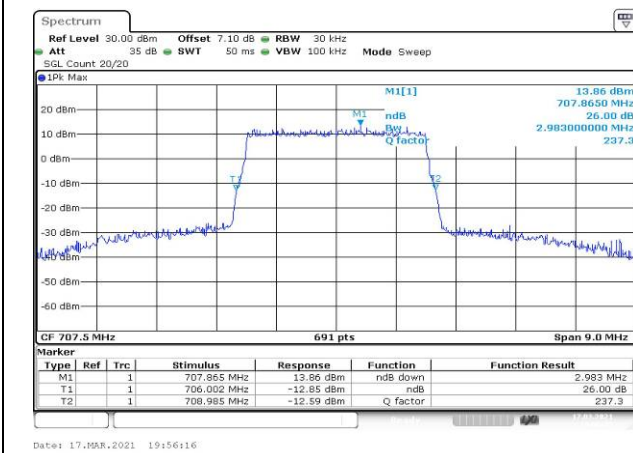


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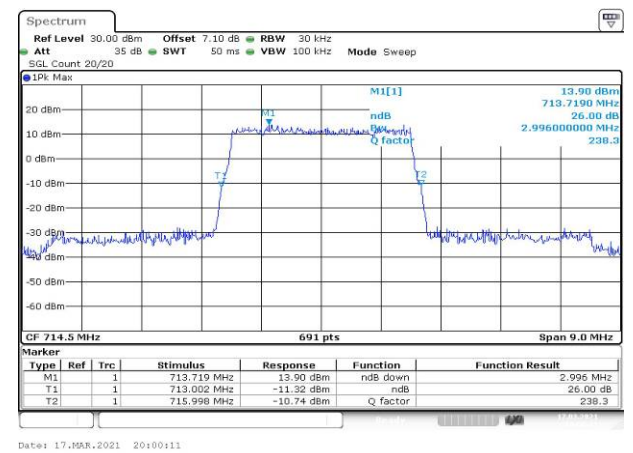


Fig.16

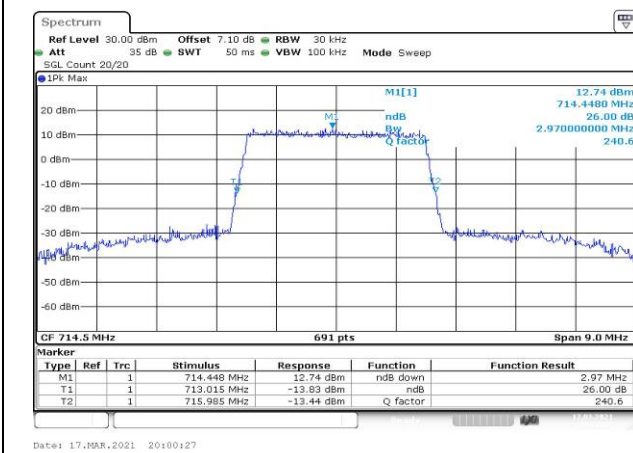


Fig.17

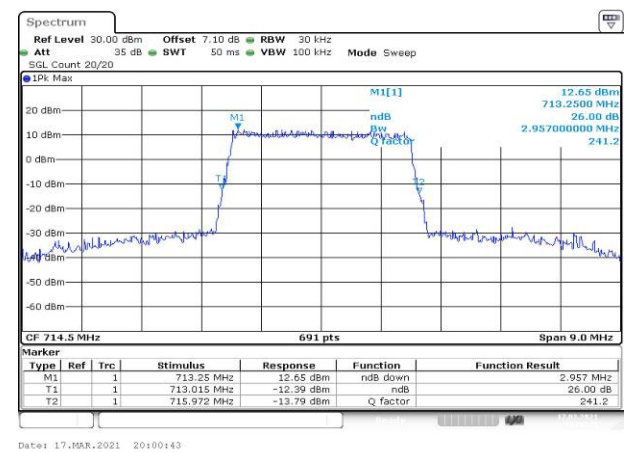


Fig.18

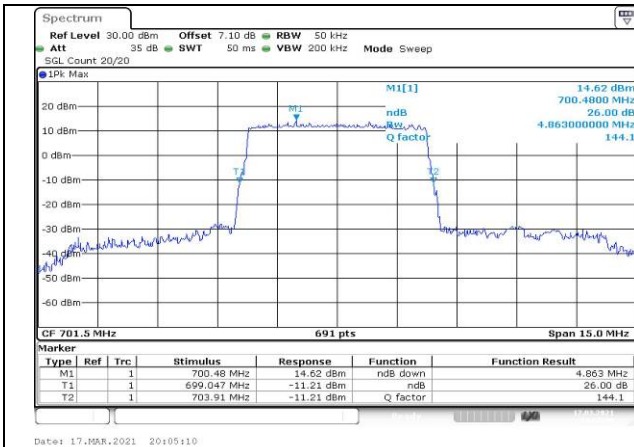


Fig.19

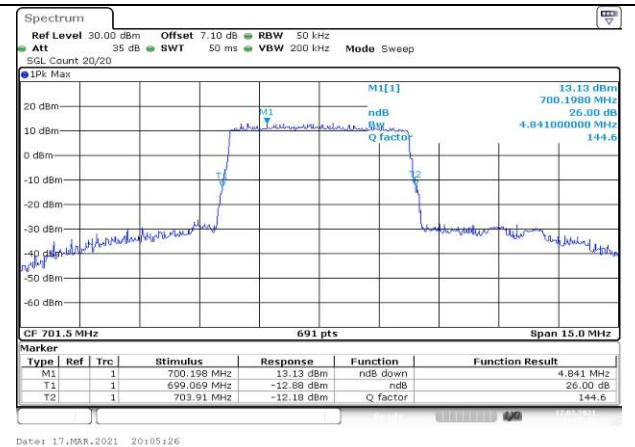


Fig.20

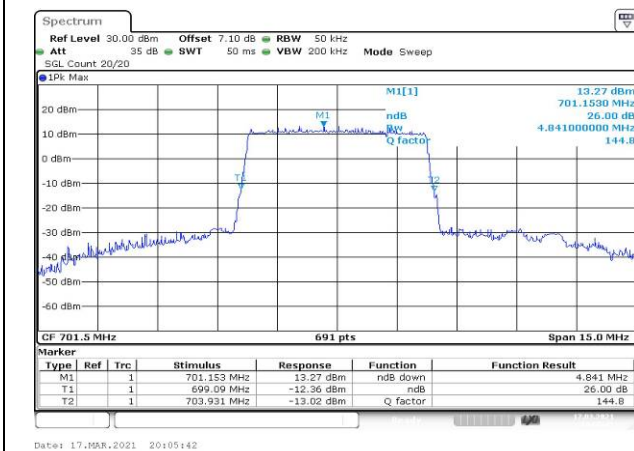


Fig.21

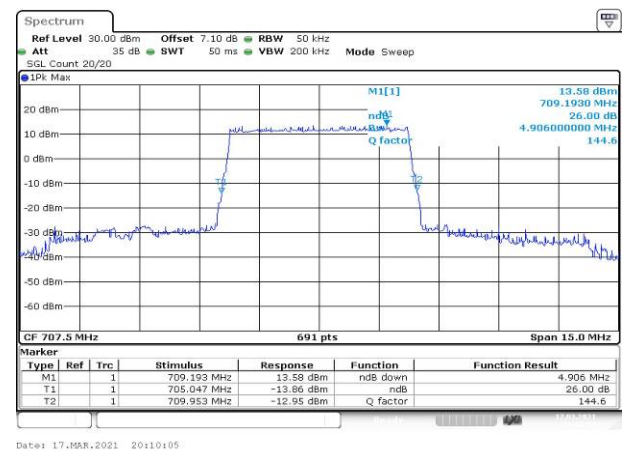


Fig.22

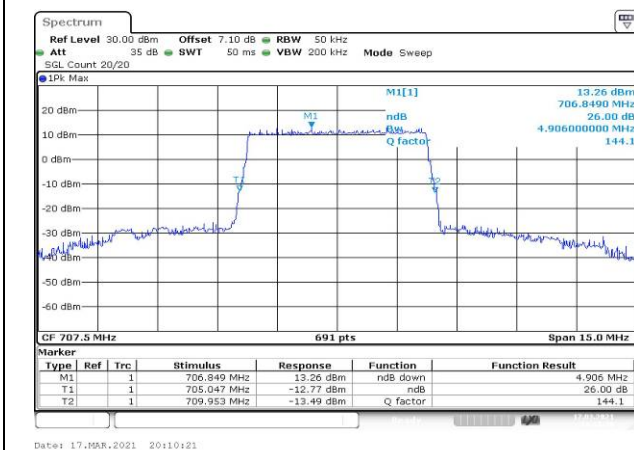


Fig.23

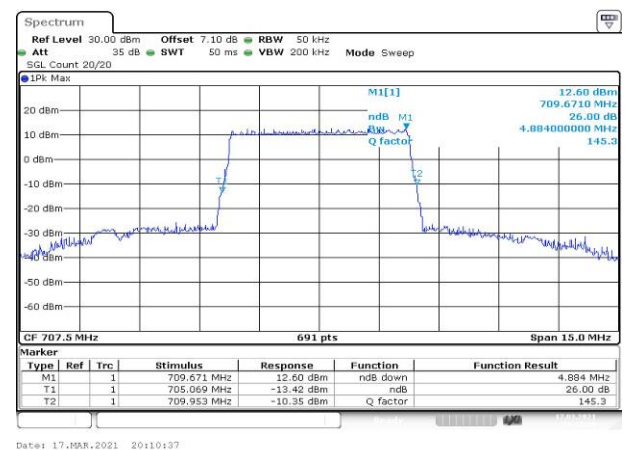


Fig.24

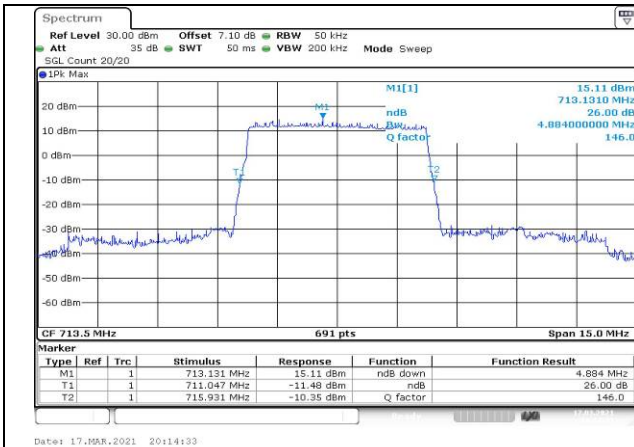


Fig.25

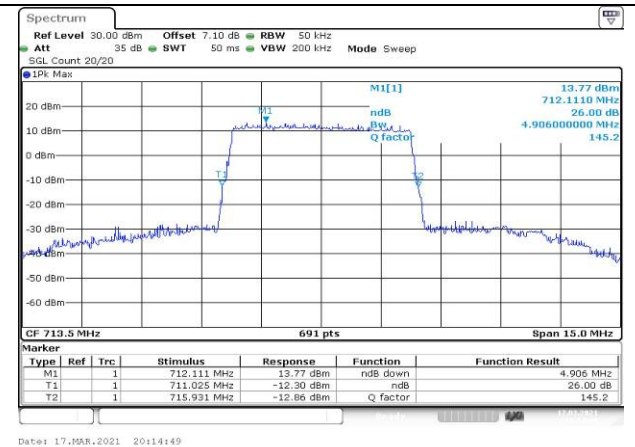


Fig.26

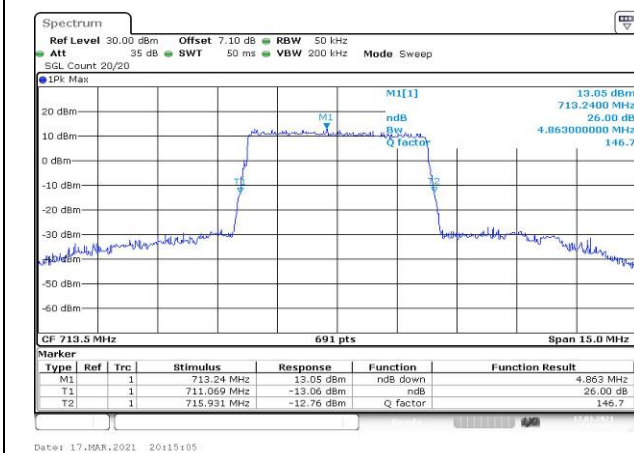


Fig.27

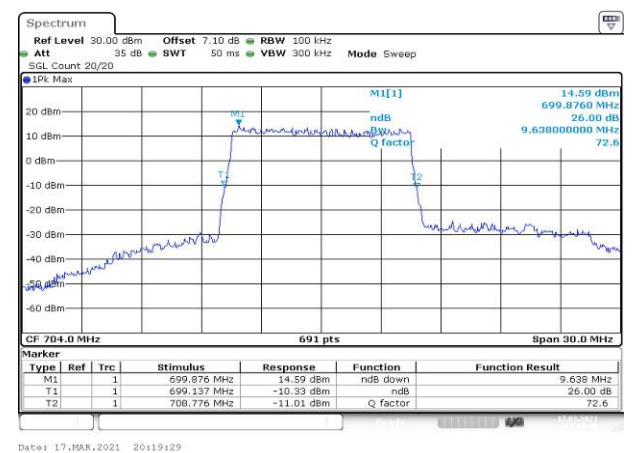


Fig.28

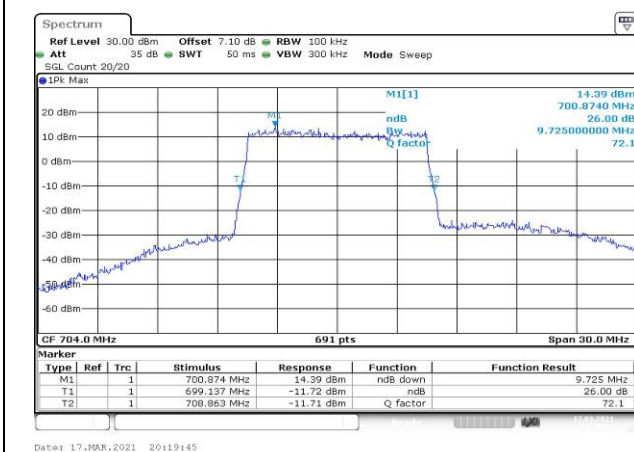


Fig.29

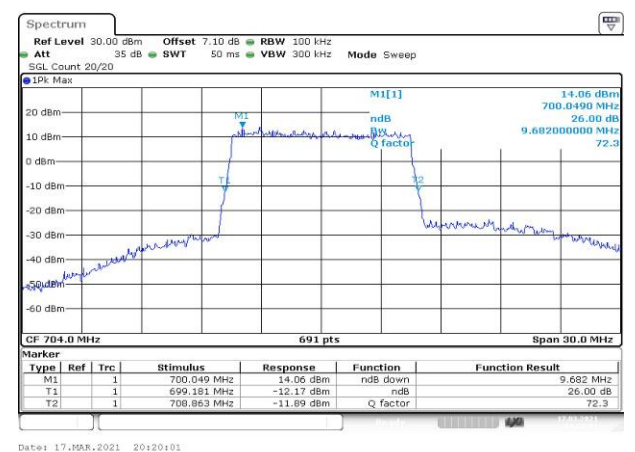


Fig.30

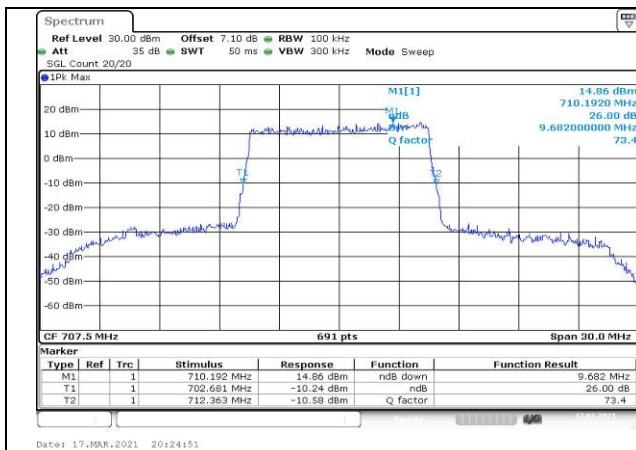


Fig.31

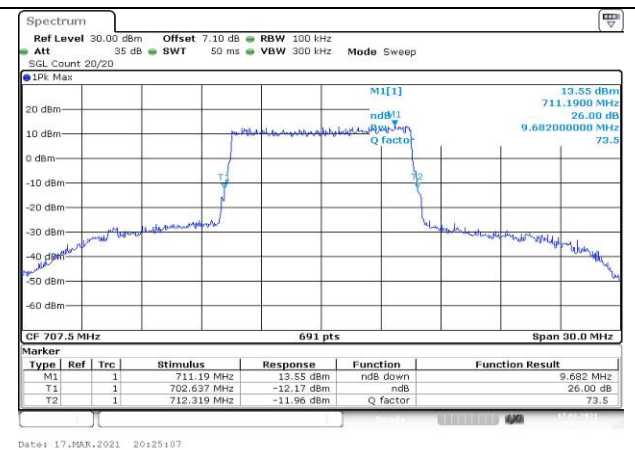


Fig.32

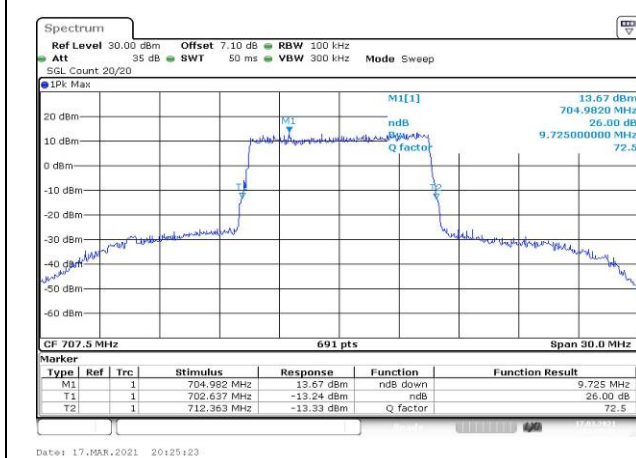


Fig.33

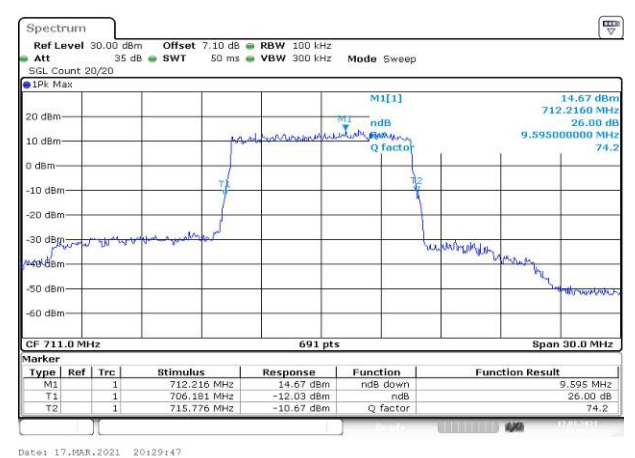


Fig.34

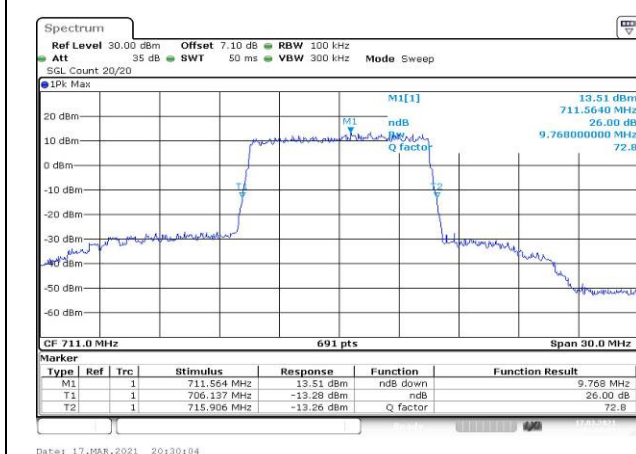


Fig.35

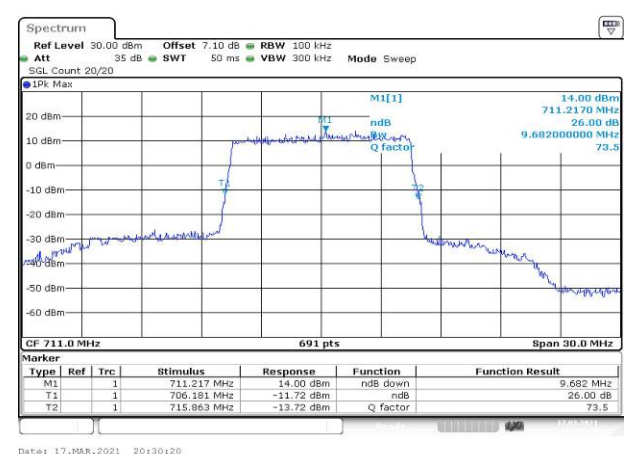


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	699.7	23017	1.4	1	5	Fig.1	Fig.2	Fig.3
	699.7	23017		6	0	Fig.4	Fig.5	Fig.6
	707.5	23095		1	5	Fig.7	Fig.8	Fig.9
	707.5	23095		6	0	Fig.10	Fig.11	Fig.12
	715.3	23173		1	5	Fig.13	Fig.14	Fig.15
	715.3	23173		6	0	Fig.16	Fig.17	Fig.18
	700.5	23025	3	1	14	Fig.19	Fig.20	Fig.21
	700.5	23025		15	0	Fig.22	Fig.23	Fig.24
	707.5	23095		1	14	Fig.25	Fig.26	Fig.27
	707.5	23095		15	0	Fig.28	Fig.29	Fig.30
	714.5	23165		1	14	Fig.31	Fig.32	Fig.33
	714.5	23165		15	0	Fig.34	Fig.35	Fig.36
	701.5	23035	5	1	24	Fig.37	Fig.38	Fig.39
	701.5	23035		25	0	Fig.40	Fig.41	Fig.42
	707.5	23095		1	24	Fig.43	Fig.44	Fig.45
	707.5	23095		25	0	Fig.46	Fig.47	Fig.48
	713.5	23155		1	24	Fig.49	Fig.50	Fig.51
	713.5	23155		25	0	Fig.52	Fig.53	Fig.54
	704	23060	10	1	49	Fig.55	Fig.56	Fig.57
	704	23060		50	0	Fig.58	Fig.59	Fig.60
	707.5	23095		1	49	Fig.61	Fig.62	Fig.63
	707.5	23095		50	0	Fig.64	Fig.65	Fig.66
	711	23130		1	49	Fig.67	Fig.68	Fig.69
	711	23130		50	0	Fig.70	Fig.71	Fig.72

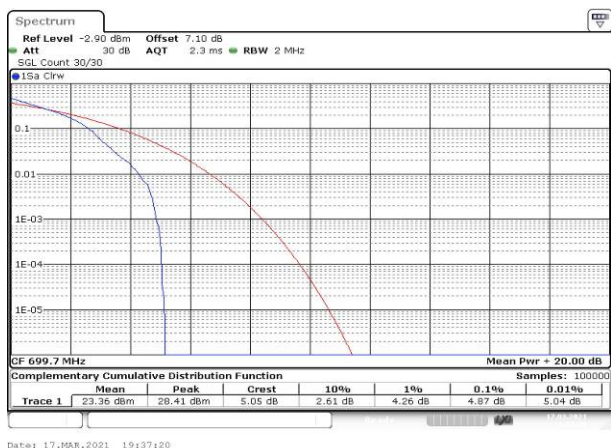


Fig.1

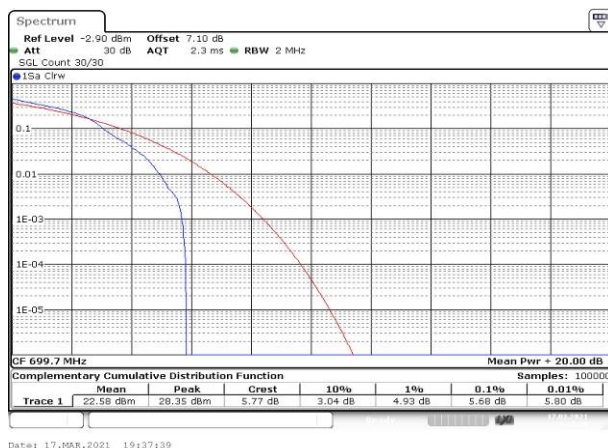


Fig.2

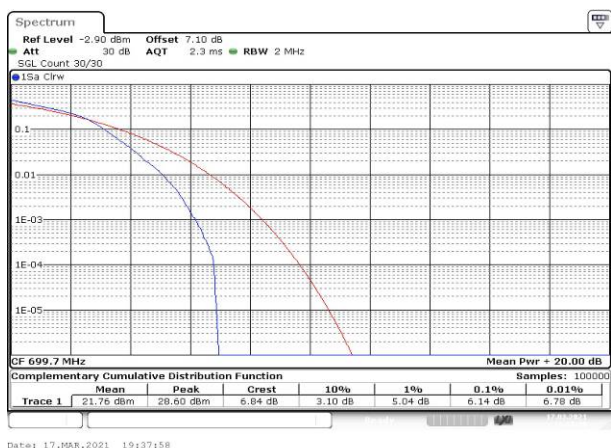


Fig.3

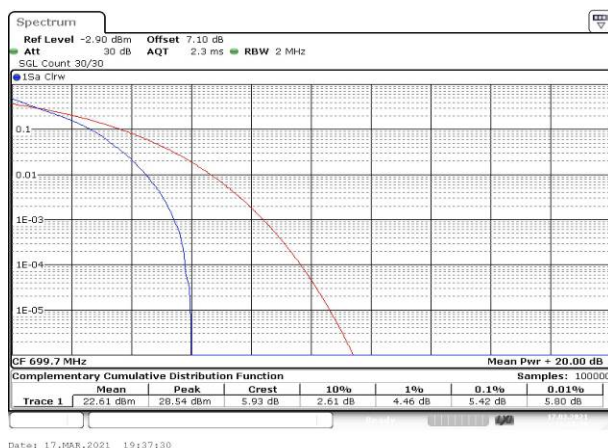


Fig.4

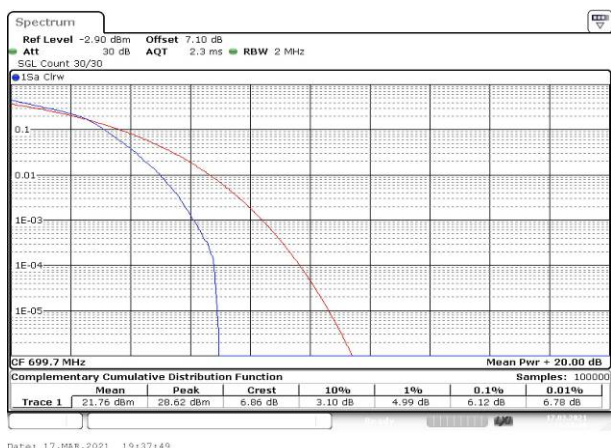


Fig.5

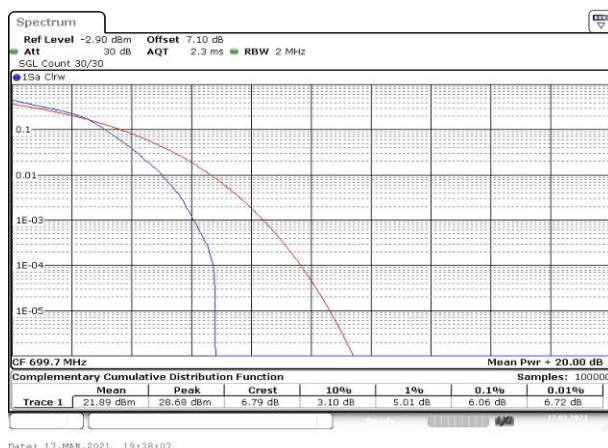


Fig.6

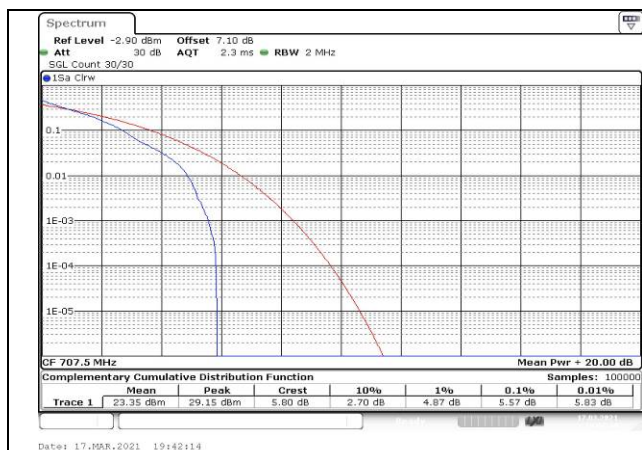


Fig.7

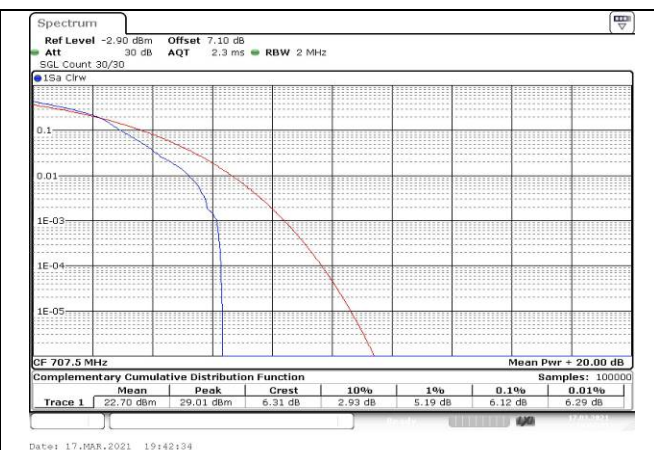


Fig.8

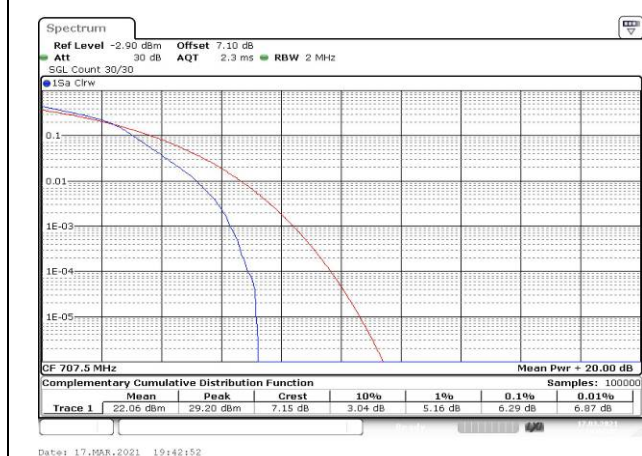


Fig.9

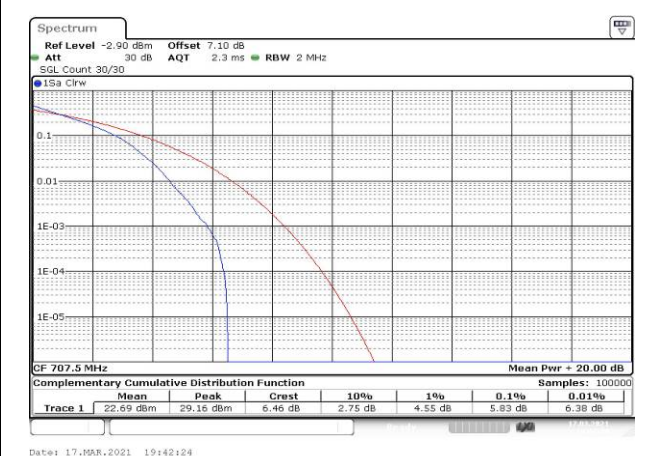


Fig.10

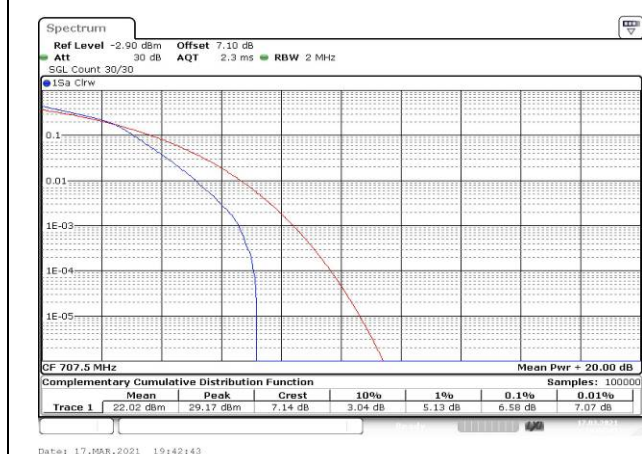


Fig.11

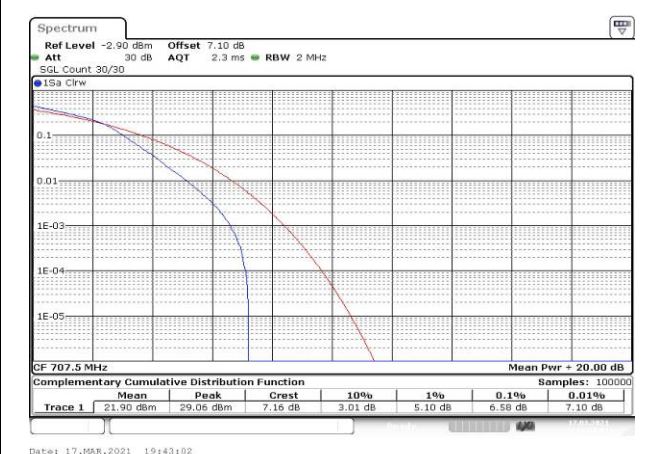


Fig.12

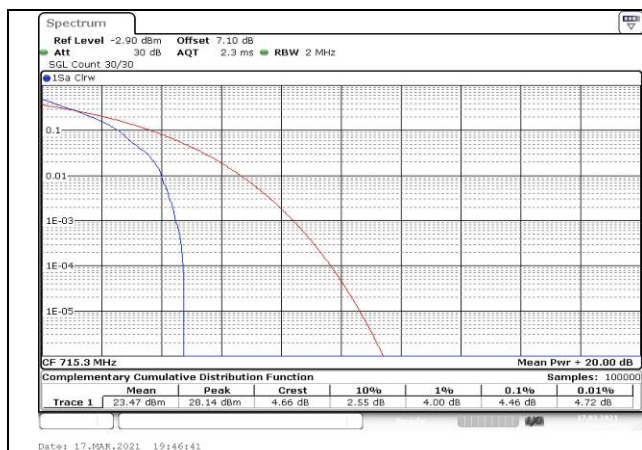


Fig.13

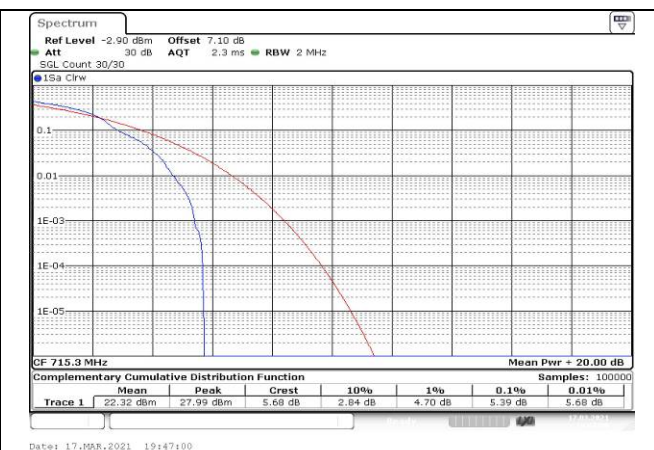


Fig.14

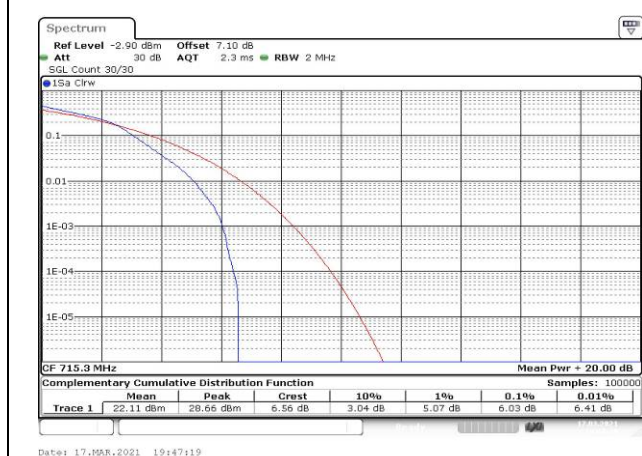


Fig.15

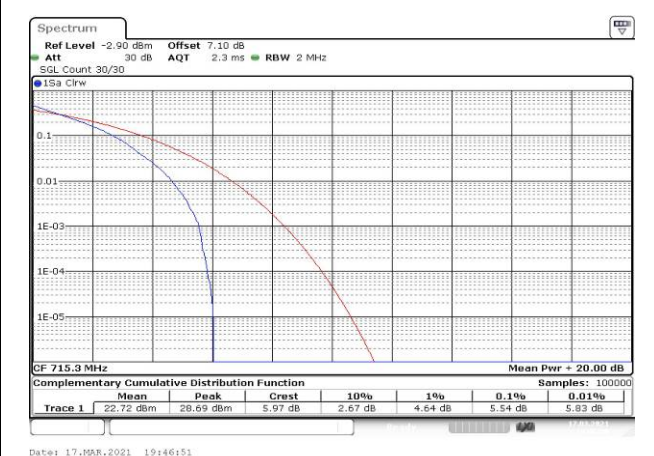


Fig.16

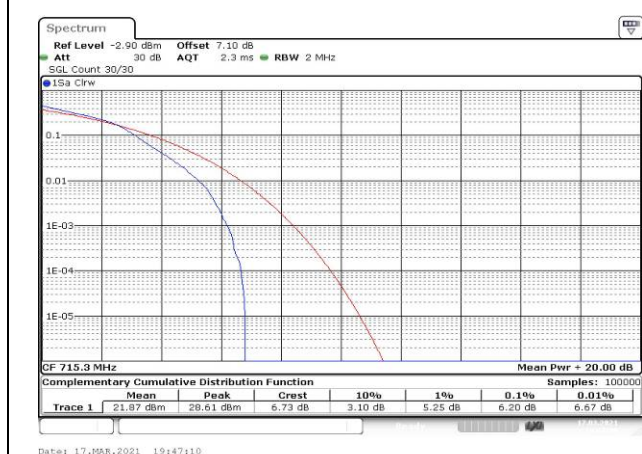


Fig.17



Fig.18