

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 38

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2572.5	37775	5	1	0	23.13	
				1	12	23.06	
				1	24	23.11	
				12	0	22.09	
				12	7	22.18	
				12	13	22.21	
	2595	38000		25	0	21.15	
				1	0	23.21	
				1	12	23.04	
				1	24	23.15	
				12	0	22.12	
				12	7	22.26	
	2617.5	38225		12	13	22.23	
				25	0	21.08	
				1	0	23.20	
				1	12	23.09	
				1	24	23.09	
				12	0	22.16	
	16QAM	2572.5		37775	12	7	22.14
					12	13	22.17
					25	0	21.15
					1	0	22.58
					1	12	22.58
					1	24	22.47
2595		38000		12	0	21.11	
				12	7	21.10	
				12	13	21.09	
				25	0	20.21	
				1	0	22.57	
				1	12	22.56	
2617.5		38225		1	24	22.48	
				12	0	21.32	
				12	7	21.29	
				12	13	21.24	
				25	0	20.18	
				1	0	22.60	
2595		38000		1	12	22.59	
				1	24	22.57	
				12	0	21.34	
				12	7	21.38	
				12	13	21.29	
				25	0	20.25	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2572.5	37775	5	1	0	21.11
				1	12	21.15
				1	24	21.08
				12	0	20.18
				12	7	20.12
				12	13	20.07
				25	0	19.07
	2595	38000		1	0	21.63
				1	12	21.54
				1	24	21.63
				12	0	20.54
				12	7	20.52
				12	13	20.52
				25	0	19.61
	2617.5	38225		1	0	21.05
				1	12	21.09
				1	24	21.01
				12	0	20.10
				12	7	20.01
				12	13	20.09
				25	0	19.02

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2575	37800	10	1	0	23.17	
				1	25	22.95	
				1	49	23.19	
				25	0	22.24	
				25	12	22.23	
				25	25	22.16	
				50	0	21.23	
	2595	38000		1	0	23.04	
				1	25	23.20	
				1	49	23.16	
				25	0	22.18	
				25	12	22.27	
				25	25	22.27	
				50	0	21.21	
	2615	38200		1	0	23.10	
				1	25	22.97	
				1	49	23.10	
				25	0	22.18	
				25	12	22.23	
				25	25	22.22	
				50	0	21.17	
	16QAM	2575		37800	1	0	22.57
					1	25	22.50
					1	49	22.46
25					0	21.25	
25					12	21.27	
25					25	21.24	
50					0	20.30	
2595		38000		1	0	22.43	
				1	25	22.32	
			1	49	22.23		
			25	0	21.23		
			25	12	21.21		
			25	25	21.20		
			50	0	20.28		
2615		38200	1	0	22.46		
			1	25	22.37		
			1	49	22.47		
			25	0	21.26		
			25	12	21.23		
			25	25	21.20		
			50	0	20.07		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2575	37800	10	1	0	21.19
				1	25	21.19
				1	49	21.30
				25	0	20.25
				25	12	20.19
				25	25	20.25
				50	0	19.19
	2595	38000		1	0	21.18
				1	25	21.21
				1	49	21.21
				25	0	20.21
				25	12	20.15
				25	25	20.21
				50	0	19.14
	2615	38200		1	0	21.13
				1	25	21.10
				1	49	21.11
				25	0	20.10
				25	12	20.03
				25	25	20.13
				50	0	19.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	2577.5	37825	15	1	0	23.04	
				1	37	22.94	
				1	74	22.93	
				36	0	22.15	
				36	29	22.16	
				36	30	22.14	
				75	0	21.20	
	2595	38000		1	0	22.99	
				1	37	23.11	
				1	74	23.15	
				36	0	22.18	
				36	29	22.24	
				36	30	22.23	
				75	0	21.13	
	2612.5	38175		1	0	23.19	
				1	37	23.03	
				1	74	23.06	
				36	0	22.22	
				36	29	22.10	
				36	30	22.09	
				75	0	21.19	
	16QAM	2577.5		37825	1	0	22.47
					1	37	22.32
					1	74	22.36
36					0	21.23	
36					29	21.19	
36					30	21.20	
75					0	20.23	
2595		38000	1	0	22.25		
			1	37	22.19		
			1	74	22.23		
			36	0	21.17		
			36	29	21.22		
			36	30	21.25		
			75	0	20.11		
2612.5		38175	1	0	22.15		
			1	37	21.90		
			1	74	21.97		
			36	0	21.11		
			36	29	21.14		
			36	30	21.10		
75	0	20.25					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2577.5	37825	15	1	0	21.19
				1	37	21.19
				1	74	21.20
				36	0	20.19
				36	29	20.19
				36	30	20.22
				75	0	19.19
	2595	38000		1	0	21.15
				1	37	21.16
				1	74	21.14
				36	0	20.14
				36	29	20.13
				36	30	20.14
				75	0	19.11
	2612.5	38175		1	0	21.18
				1	37	21.25
				1	74	21.22
				36	0	20.18
				36	29	20.18
				36	30	20.18
				75	0	19.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	23.13
				1	49	22.99
				1	99	23.04
				50	0	22.14
				50	24	22.10
				50	50	22.18
				100	0	21.18
	2595	38000		1	0	23.01
				1	49	23.06
				1	99	23.16
				50	0	22.13
				50	24	22.20
				50	50	22.19
				100	0	21.10
	2610	38150		1	0	23.09
				1	49	23.04
				1	99	23.07
				50	0	22.17
				50	24	22.07
				50	50	22.10
				100	0	21.14
16QAM	2580	37850		1	0	22.34
				1	49	22.32
				1	99	22.29
				50	0	21.15
				50	24	21.16
				50	50	21.16
				100	0	20.15
	2595	38000		1	0	22.13
				1	49	22.21
				1	99	22.21
				50	0	21.19
				50	24	21.17
				50	50	21.22
				100	0	20.15
	2610	38150		1	0	21.72
				1	49	21.69
				1	99	21.69
				50	0	20.17
				50	24	20.25
				50	50	20.15
				100	0	20.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	2580	37850	20	1	0	21.24
				1	49	21.23
				1	99	21.21
				50	0	20.24
				50	24	20.18
				50	50	20.17
				100	0	19.21
	2595	38000		1	0	21.16
				1	49	21.15
				1	99	21.16
				50	0	20.09
				50	24	20.19
				50	50	20.12
				100	0	19.12
	2610	38150		1	0	21.15
				1	49	21.09
				1	99	21.10
				50	0	20.07
				50	24	20.16
				50	50	20.14
				100	0	19.16

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
38	2572.5	37775	5	25	0	4.472	Fig.1	4.472	Fig.2	4.472	Fig.3
	2595	38000		25	0	4.472	Fig.4	4.472	Fig.5	4.472	Fig.6
	2617.5	38225		25	0	4.472	Fig.7	4.450	Fig.8	4.428	Fig.9
	2575	37800	10	50	0	8.944	Fig.10	8.944	Fig.11	8.944	Fig.12
	2595	38000		50	0	8.944	Fig.13	8.944	Fig.14	8.944	Fig.15
	2615	38200		50	0	8.944	Fig.16	8.944	Fig.17	8.944	Fig.18
	2577.5	37825	15	75	0	13.415	Fig.19	13.415	Fig.20	13.415	Fig.21
	2595	38000		75	0	13.415	Fig.22	13.415	Fig.23	13.415	Fig.24
	2612.5	38175		75	0	13.415	Fig.25	13.415	Fig.26	13.415	Fig.27
	2580	37850	20	100	0	17.800	Fig.28	17.887	Fig.29	17.887	Fig.30
	2595	38000		100	0	17.800	Fig.31	17.887	Fig.32	17.887	Fig.33
	2610	38150		100	0	17.887	Fig.34	17.800	Fig.35	17.887	Fig.36

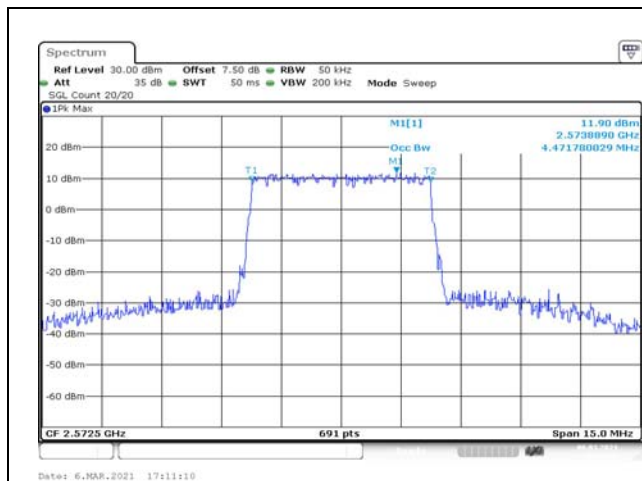


Fig.1

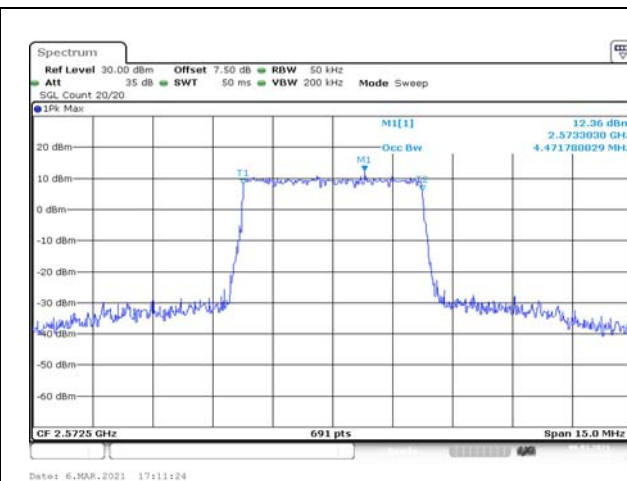


Fig.2

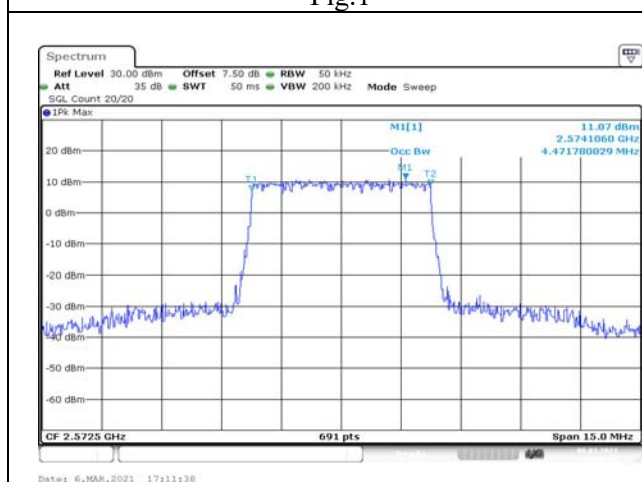


Fig.3

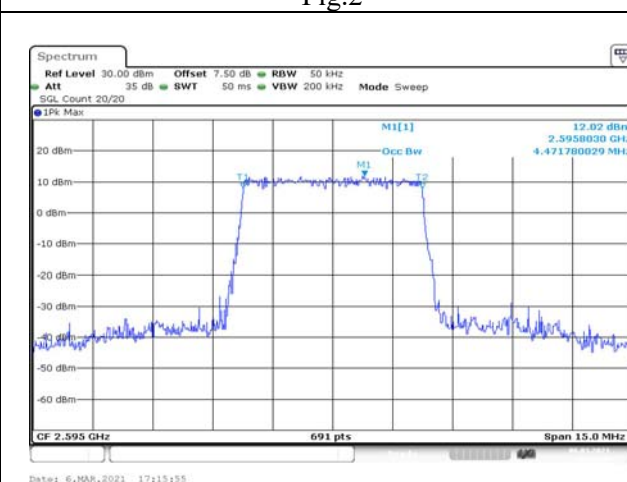


Fig.4

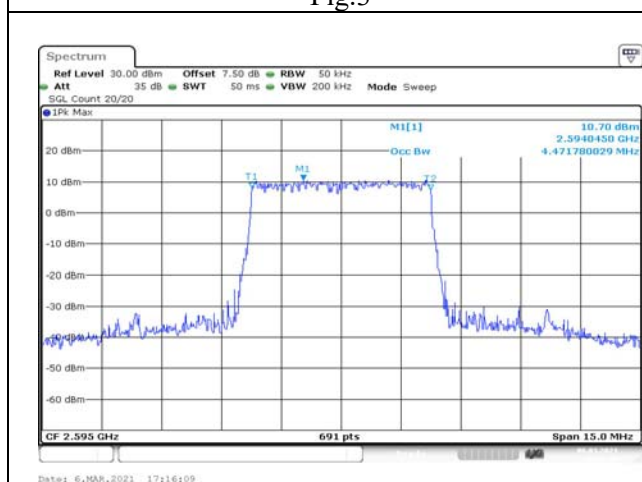


Fig.5

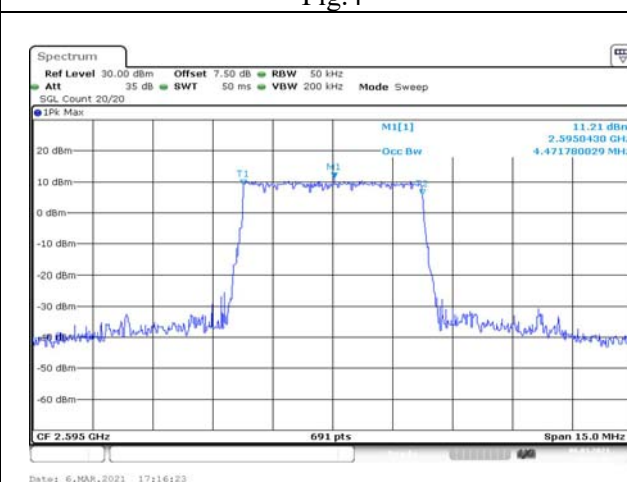
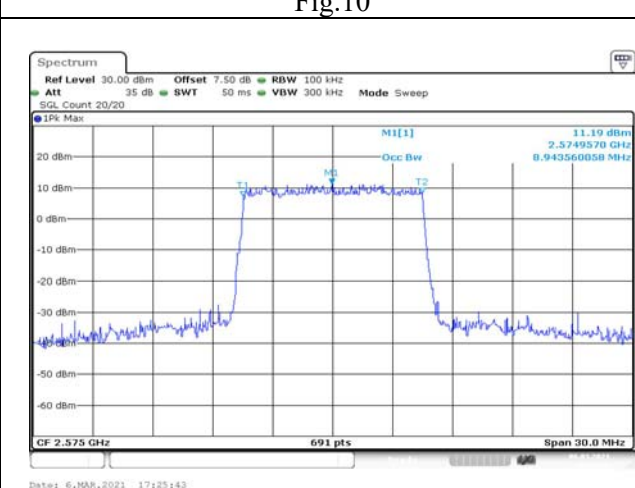
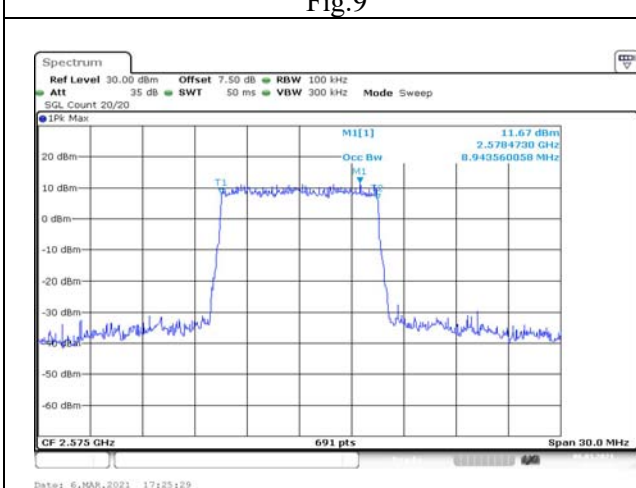
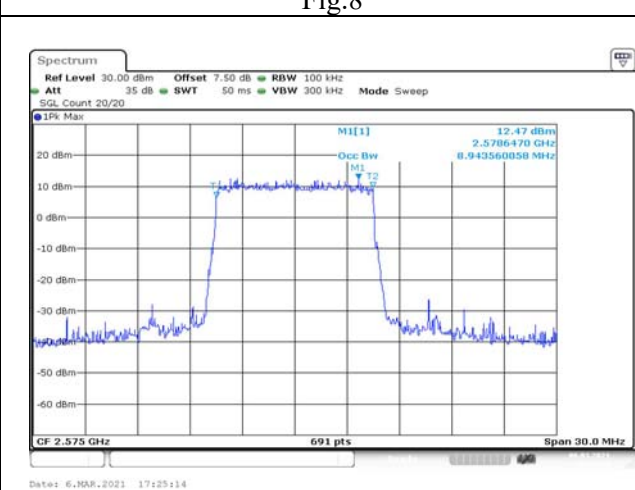
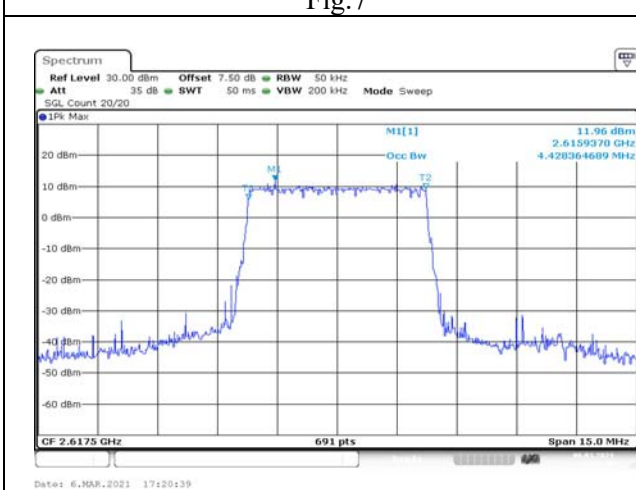
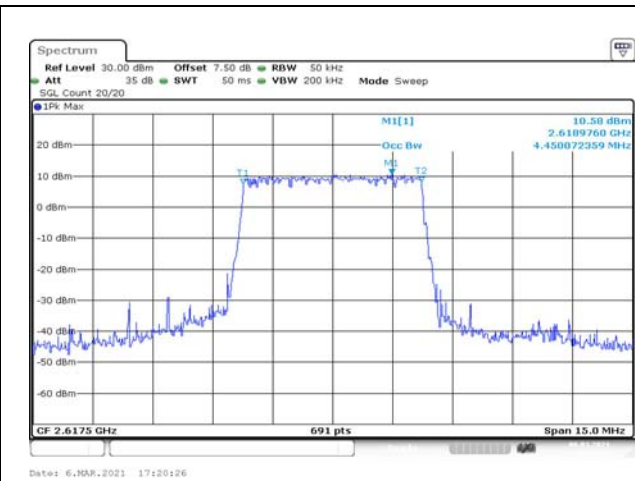
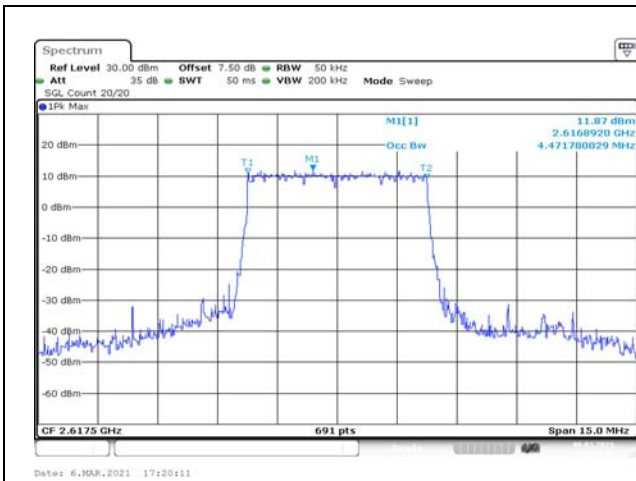
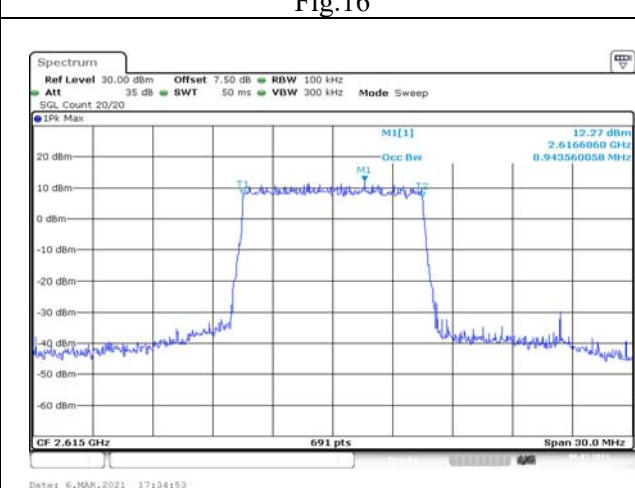
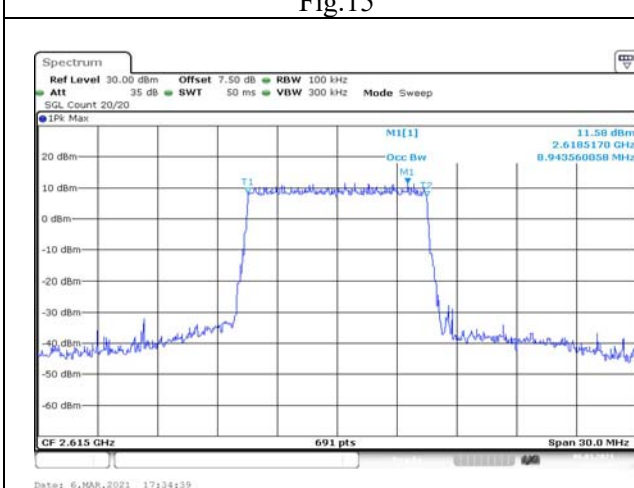
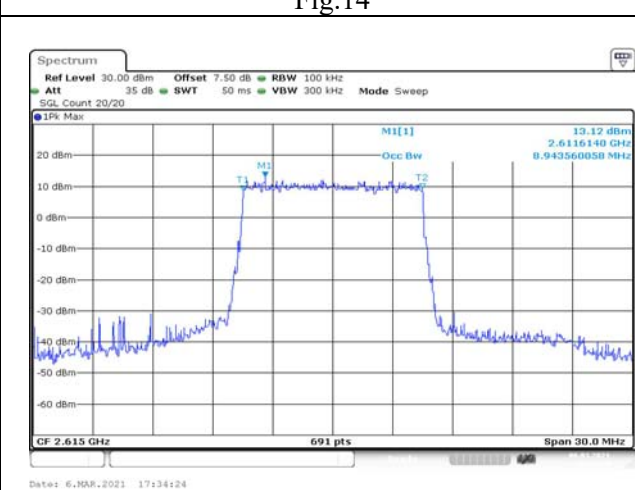
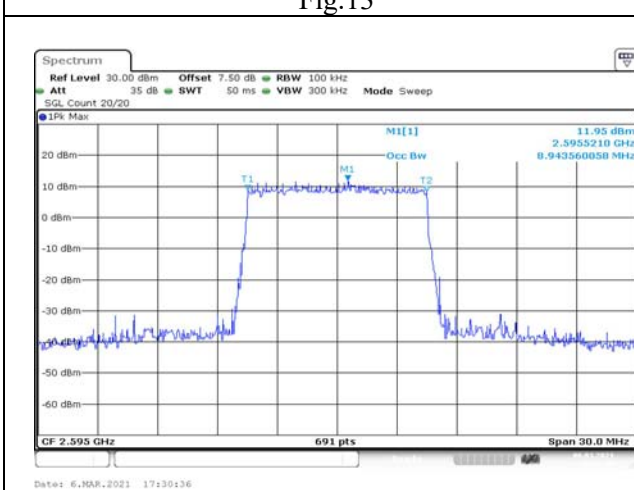
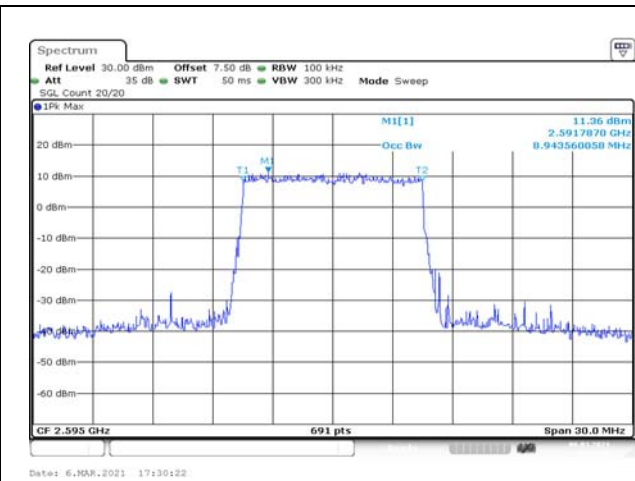
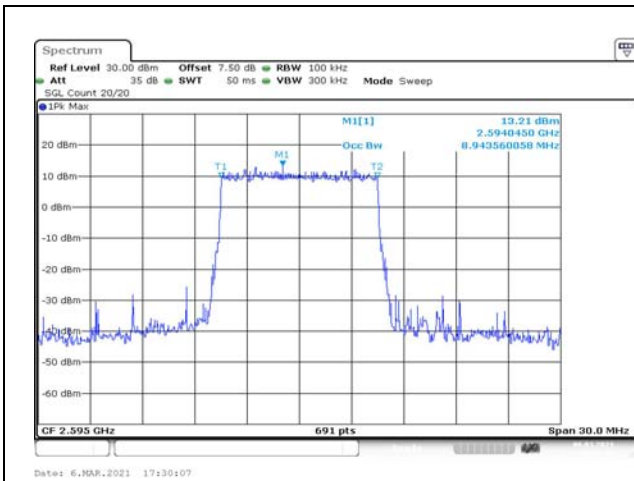
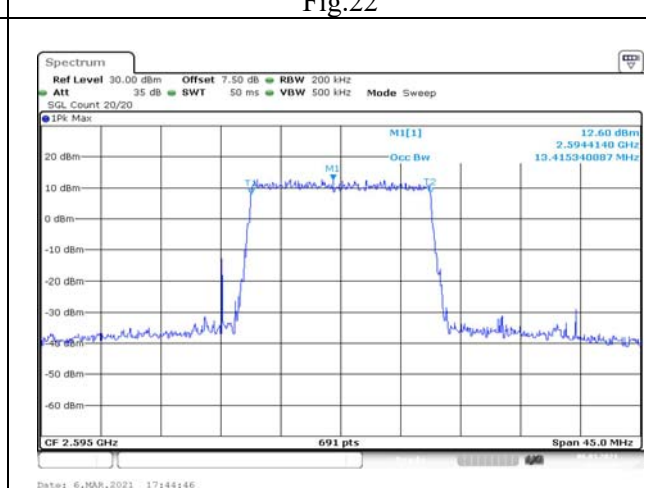
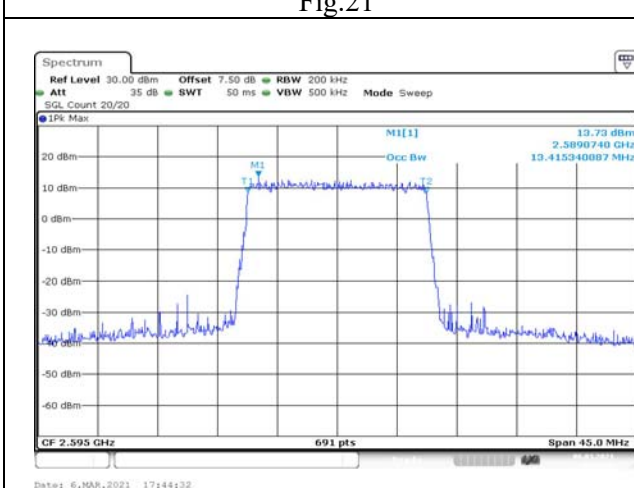
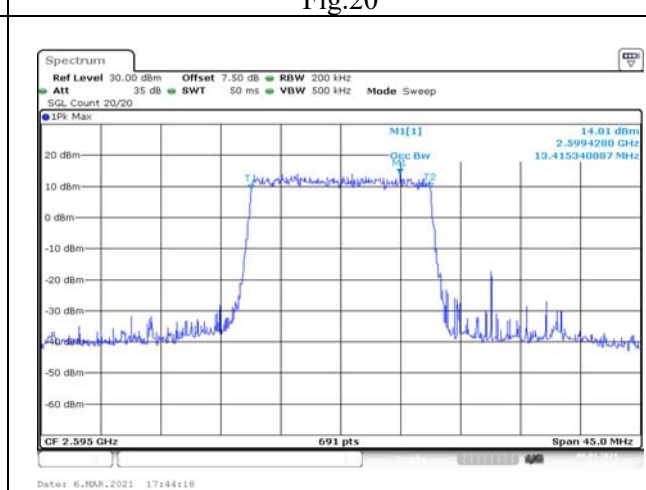
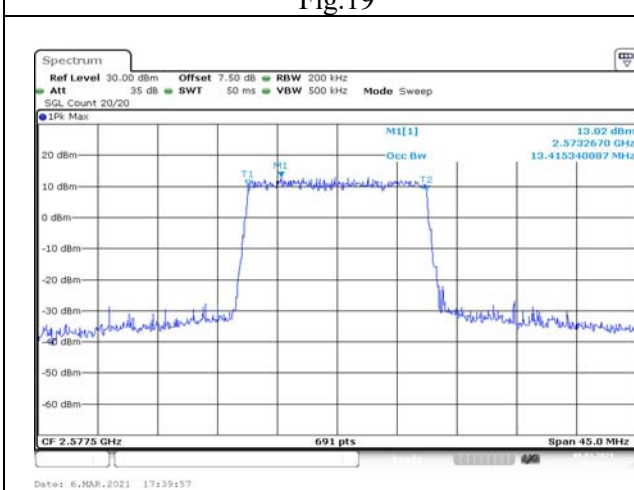
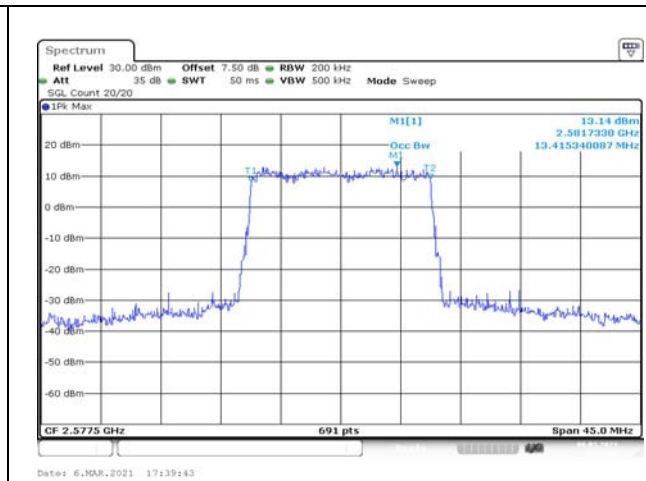
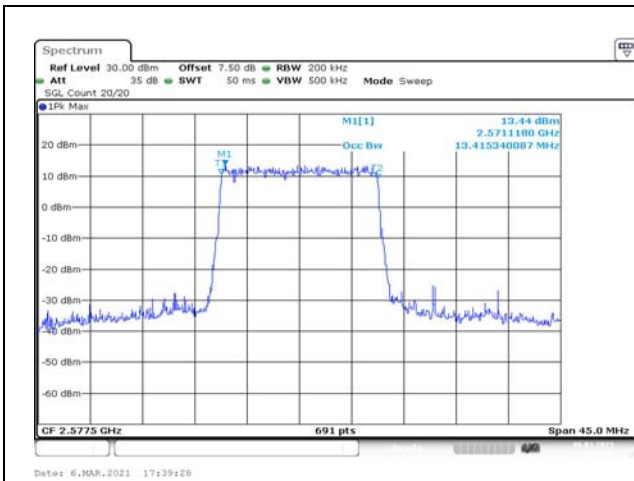
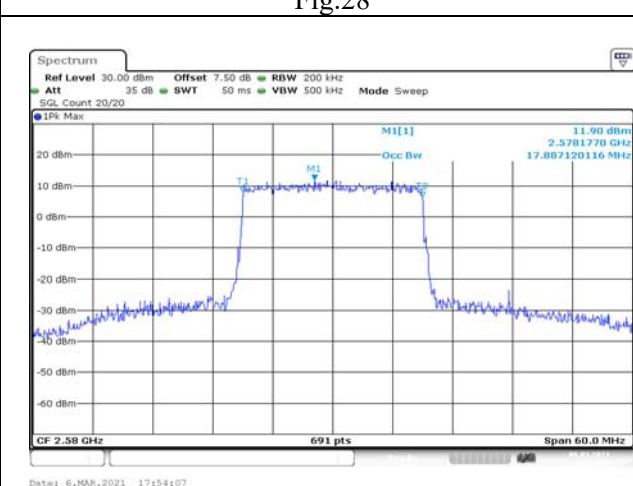
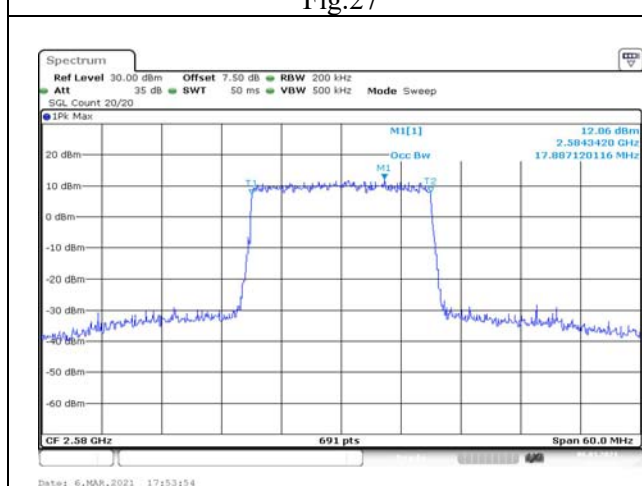
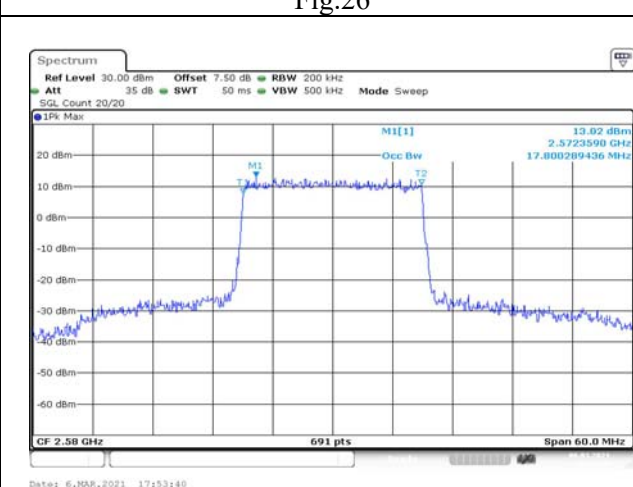
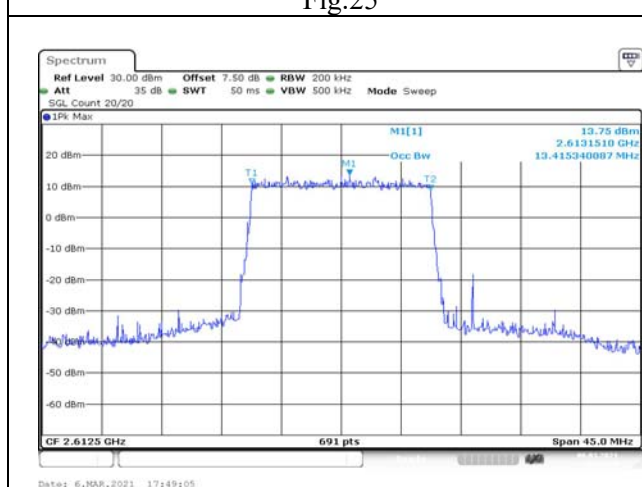
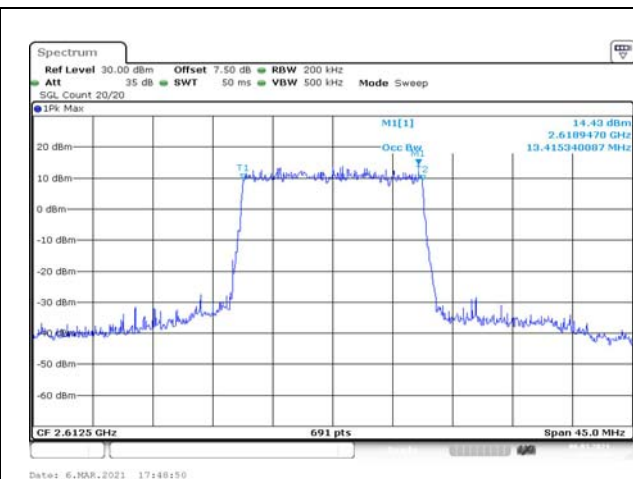
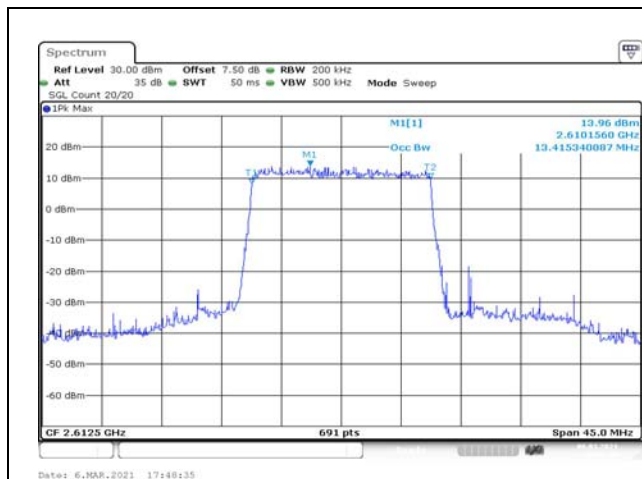


Fig.6









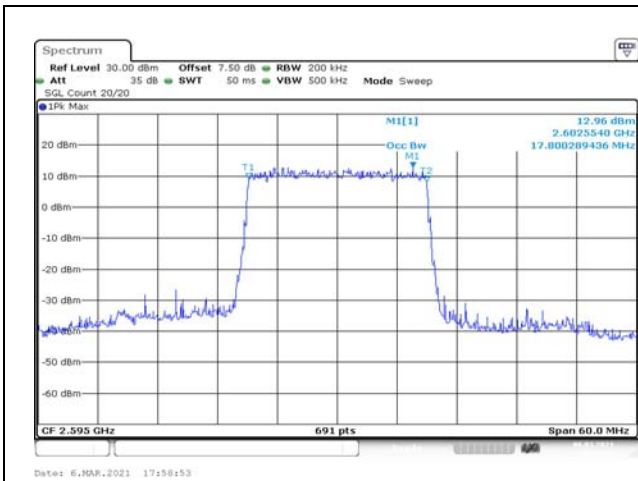


Fig.31

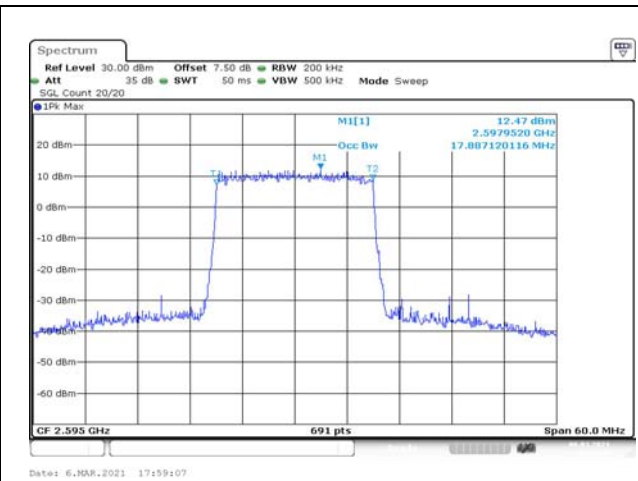


Fig.32

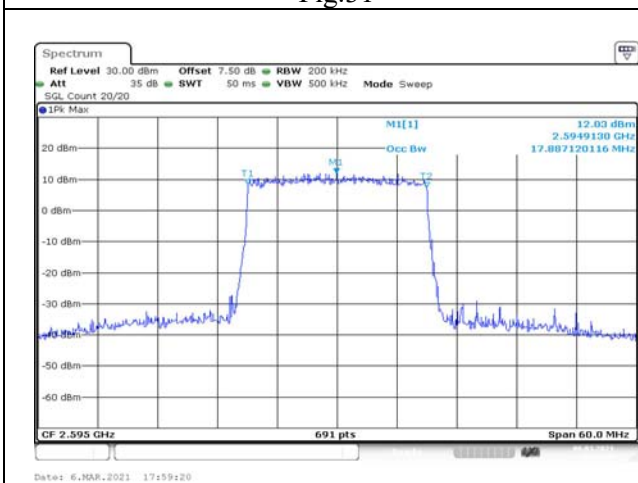


Fig.33

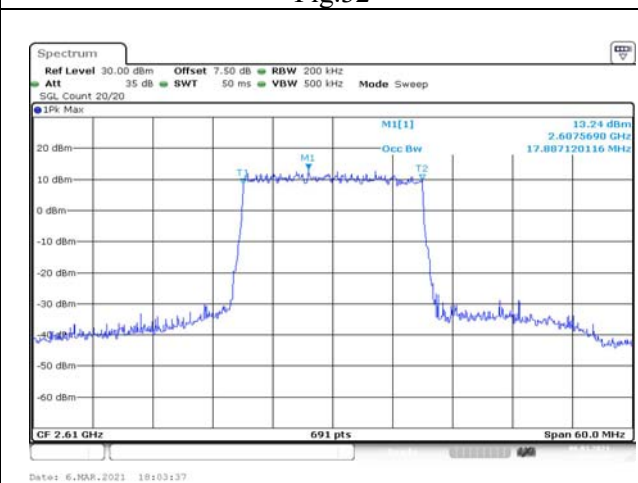


Fig.34

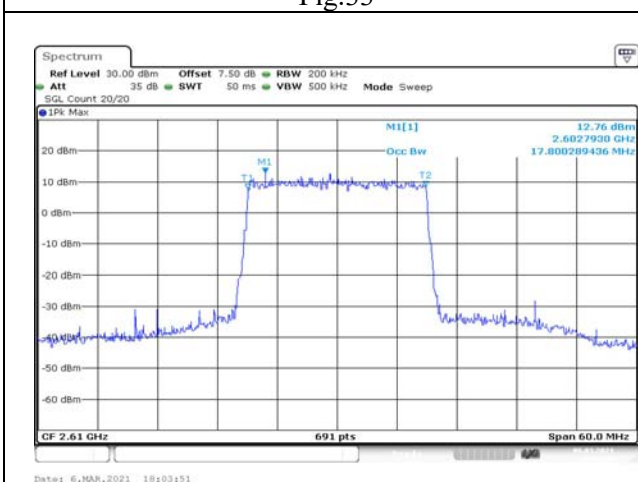


Fig.35

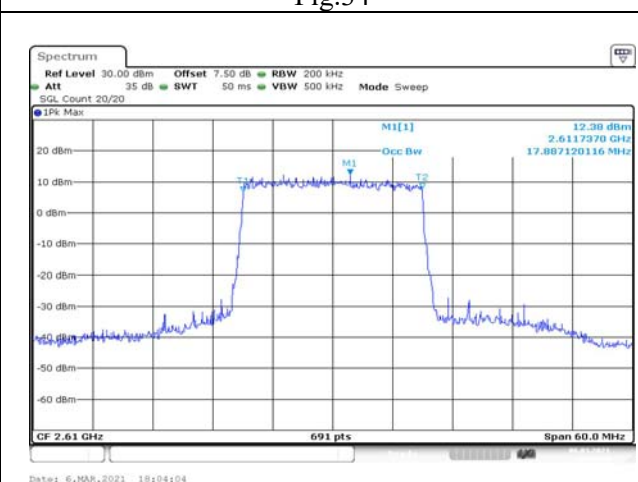


Fig.36

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	
38	2572.5	37775	5	25	0	4.797	Fig.1	4.819	Fig.2	4.797	Fig.3
	2595	38000		25	0	4.841	Fig.4	4.819	Fig.5	4.819	Fig.6
	2617.5	38225		25	0	4.797	Fig.7	4.797	Fig.8	4.863	Fig.9
	2575	37800	10	50	0	9.551	Fig.10	9.551	Fig.11	9.638	Fig.12
	2595	38000		50	0	9.595	Fig.13	9.551	Fig.14	9.595	Fig.15
	2615	38200		50	0	9.638	Fig.16	9.508	Fig.17	9.508	Fig.18
	2577.5	37825	15	75	0	14.457	Fig.19	14.457	Fig.20	14.392	Fig.21
	2595	38000		75	0	14.327	Fig.22	14.522	Fig.23	14.392	Fig.24
	2612.5	38175		75	0	14.457	Fig.25	14.197	Fig.26	14.392	Fig.27
	2580	37850	20	100	0	19.016	Fig.28	19.016	Fig.29	19.103	Fig.30
	2595	38000		100	0	18.929	Fig.31	18.929	Fig.32	18.842	Fig.33
	2610	38150		100	0	19.016	Fig.34	19.016	Fig.35	19.016	Fig.36

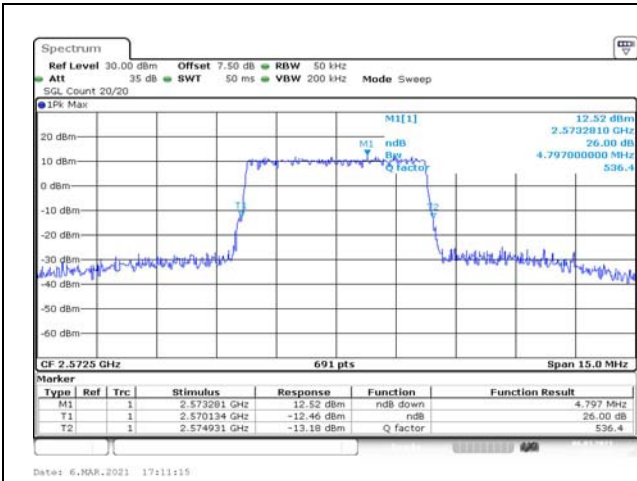


Fig.1

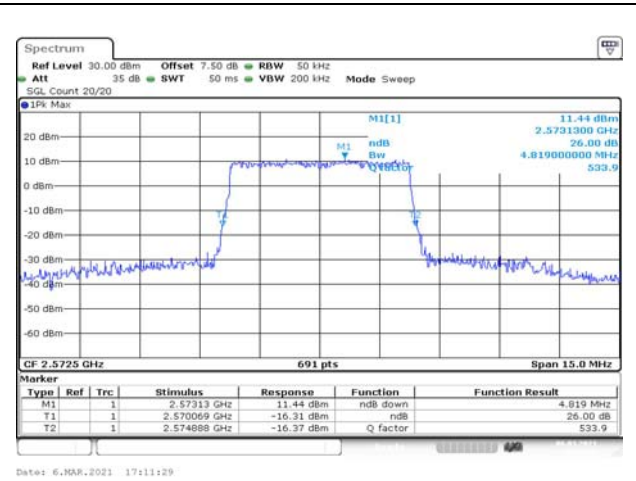


Fig.2

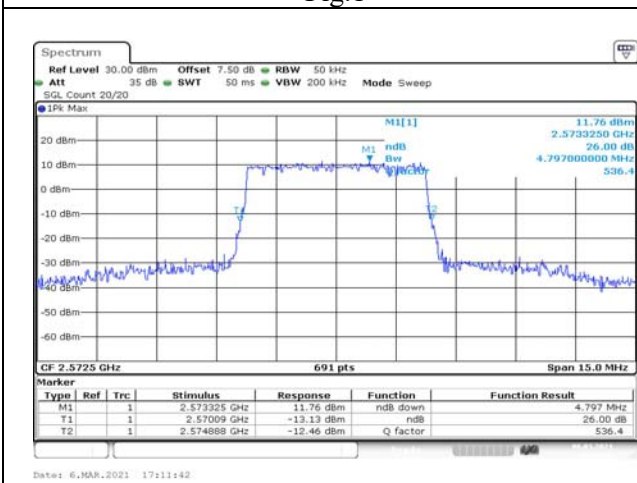


Fig.3

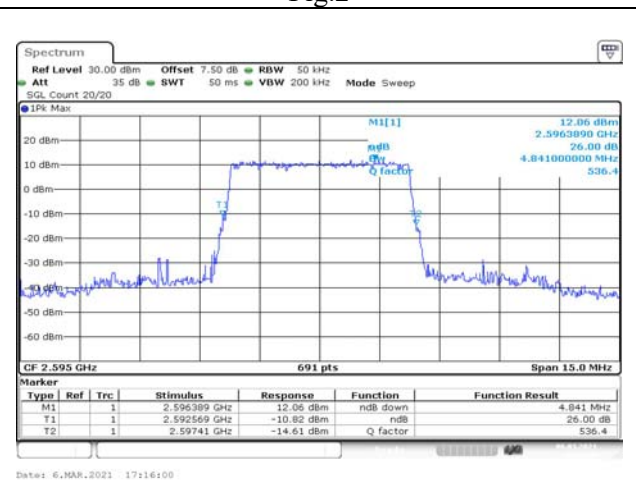


Fig.4

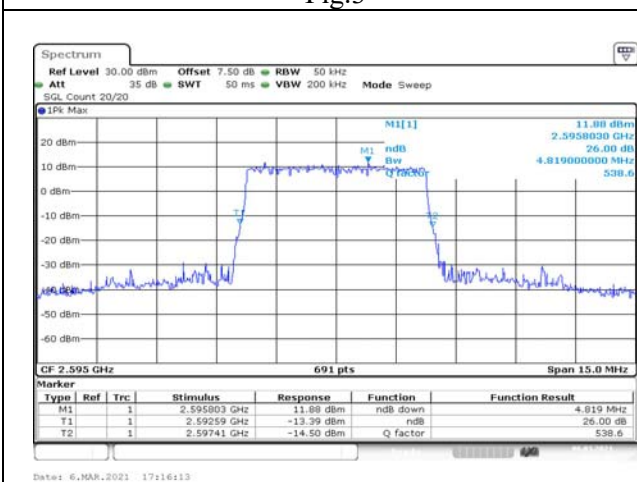


Fig.5

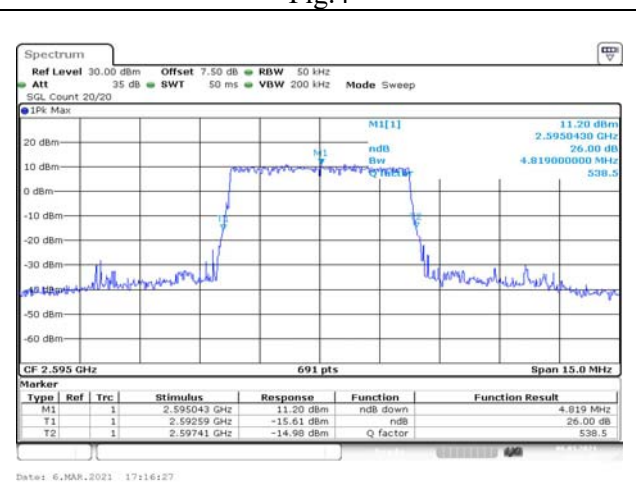


Fig.6

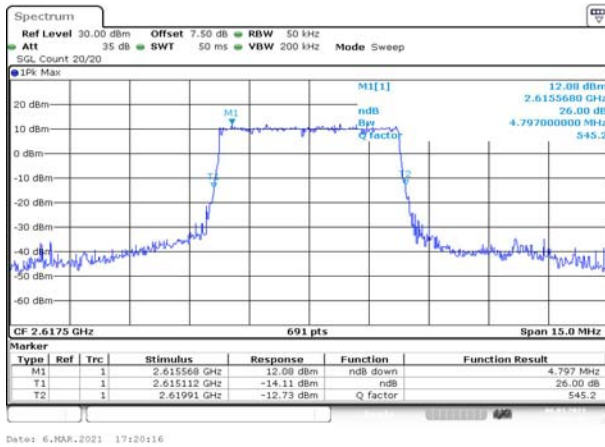


Fig.7

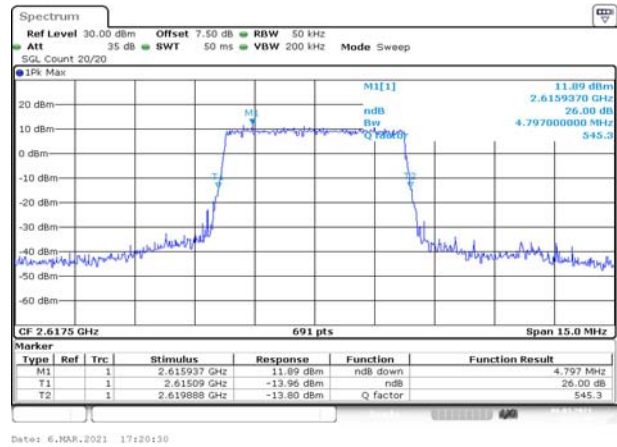


Fig.8

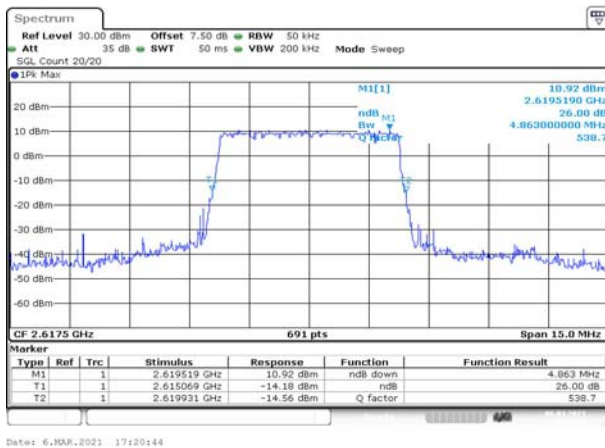


Fig.9

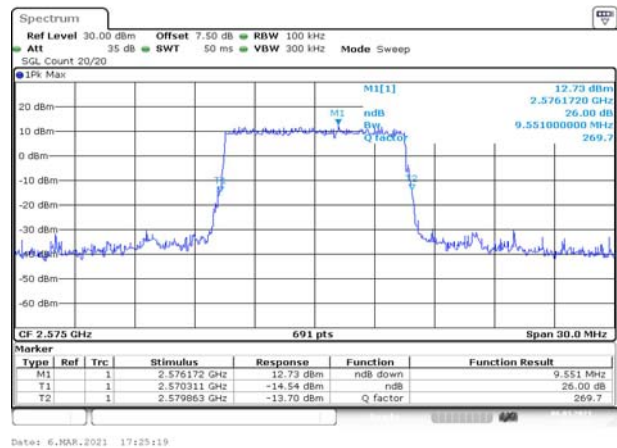


Fig.10



Fig.11

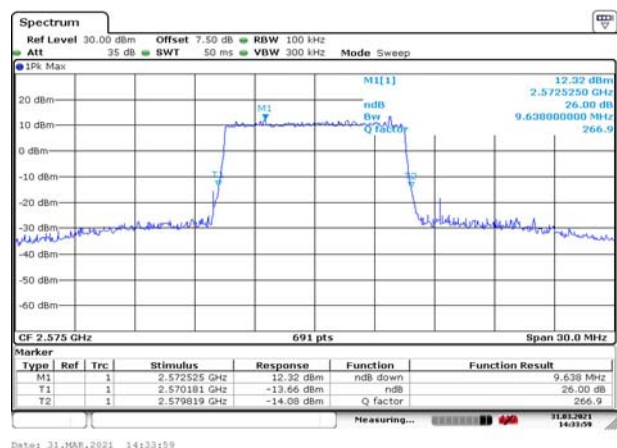


Fig.12

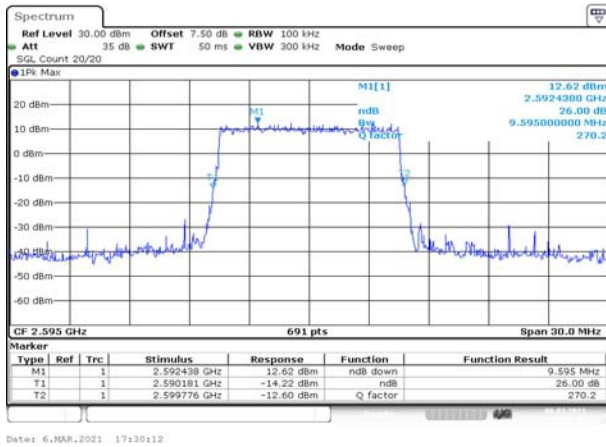


Fig.13

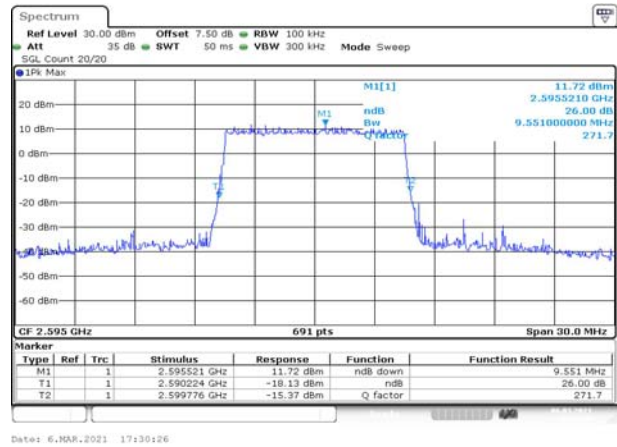


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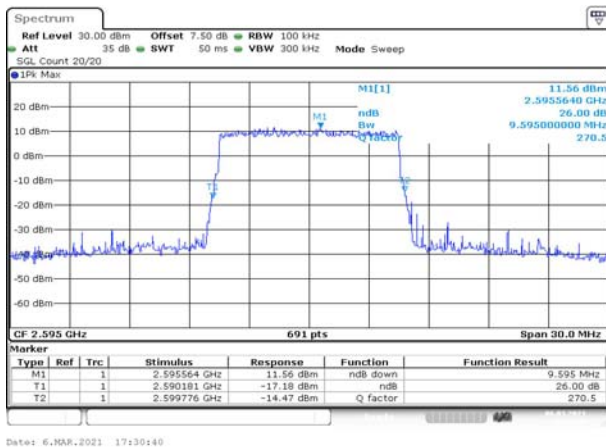


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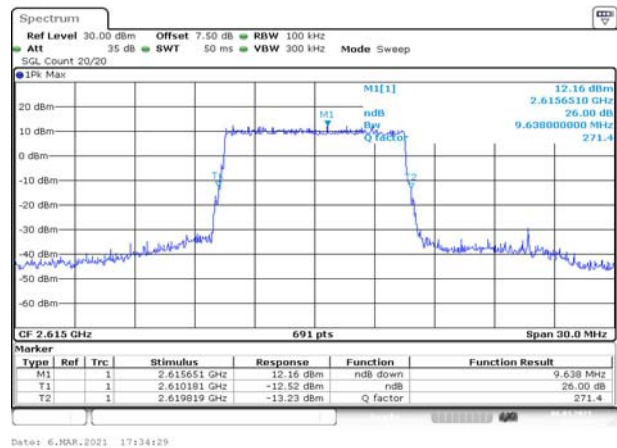


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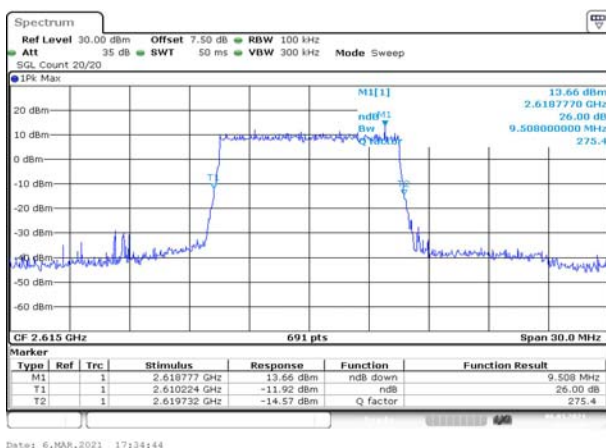


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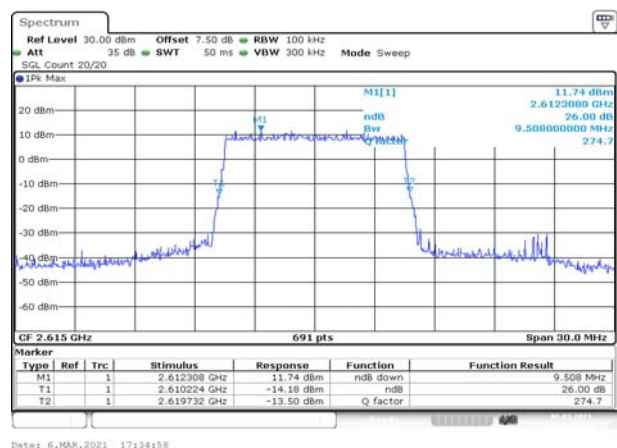


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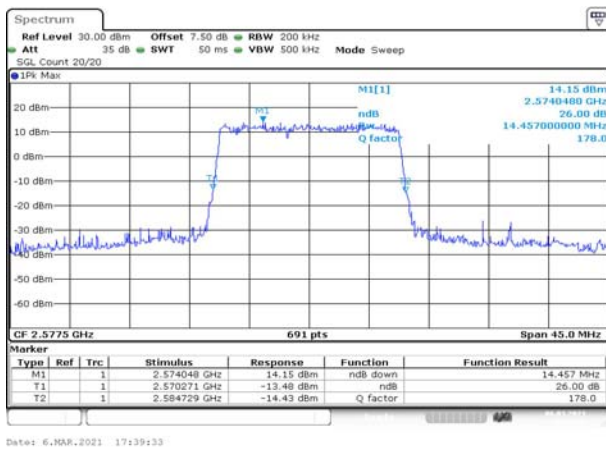


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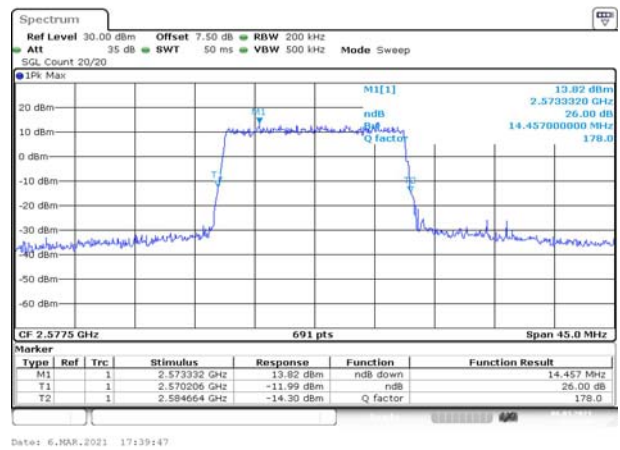


Fig.20

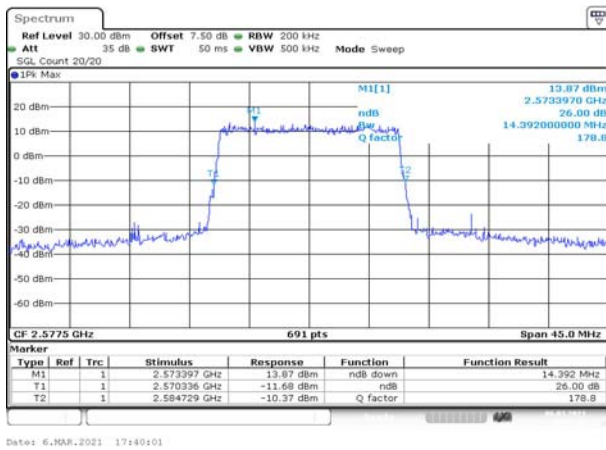


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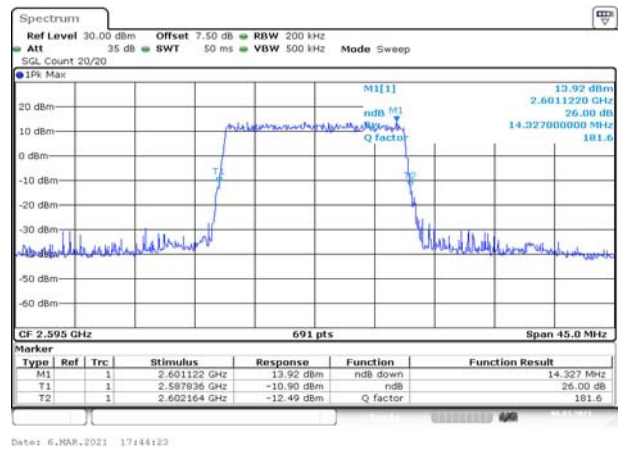


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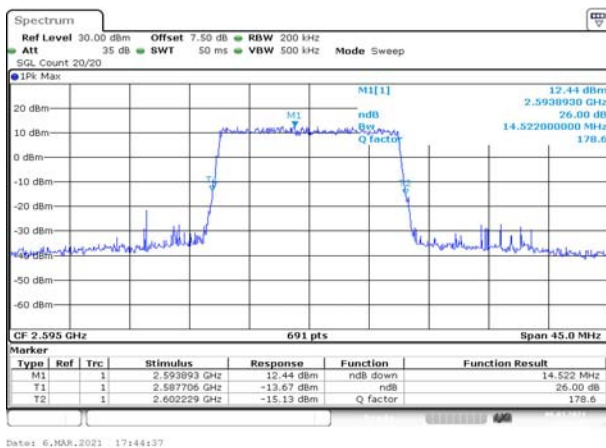


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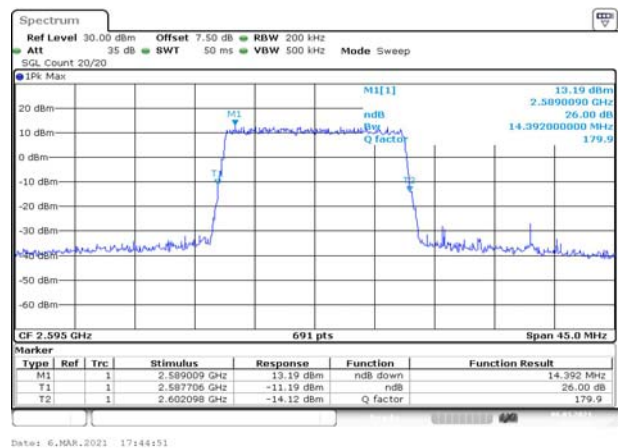


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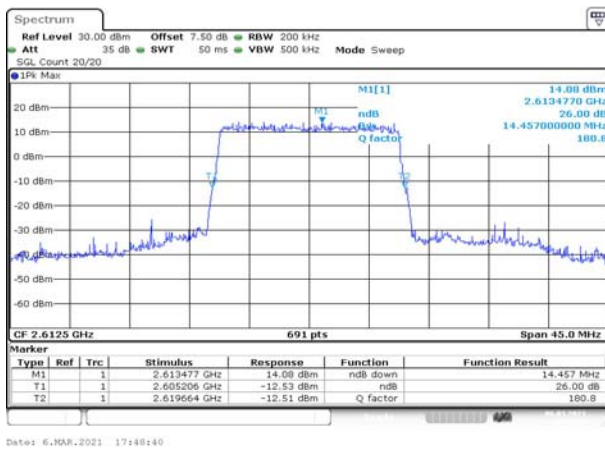


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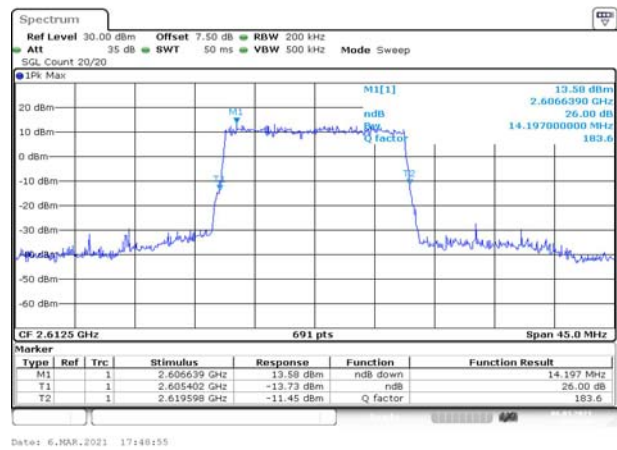


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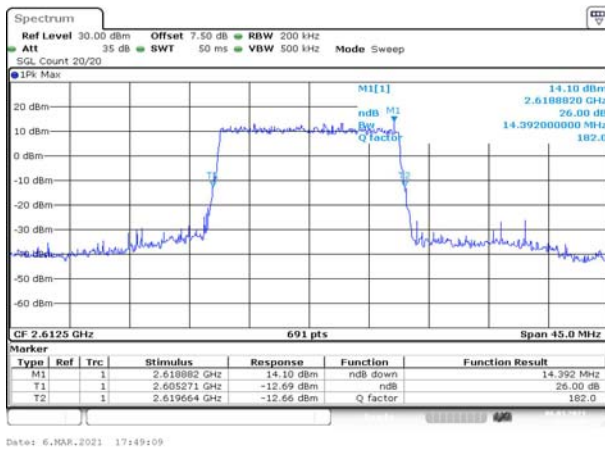


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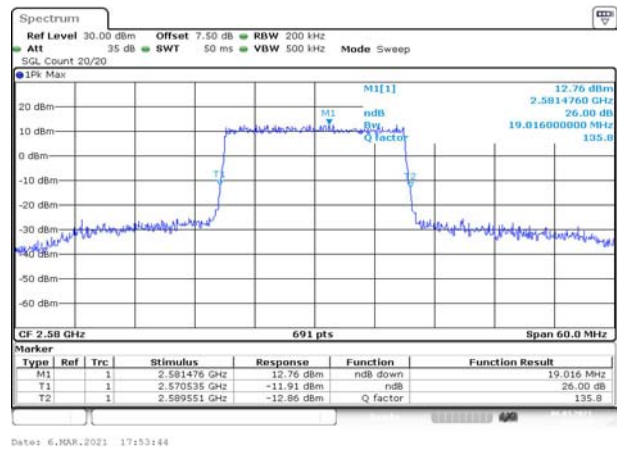


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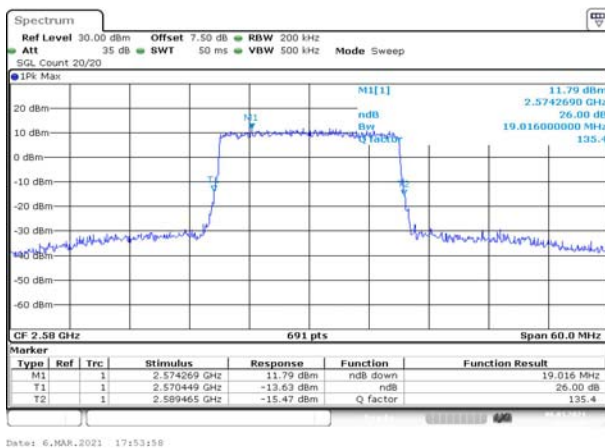


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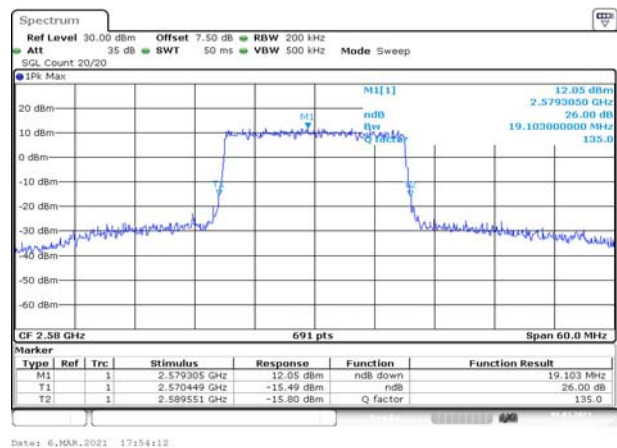


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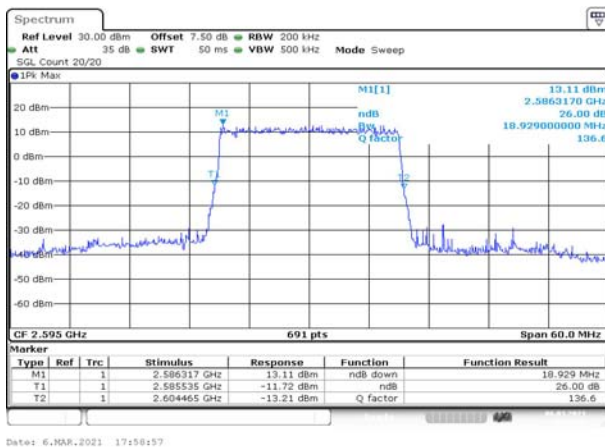


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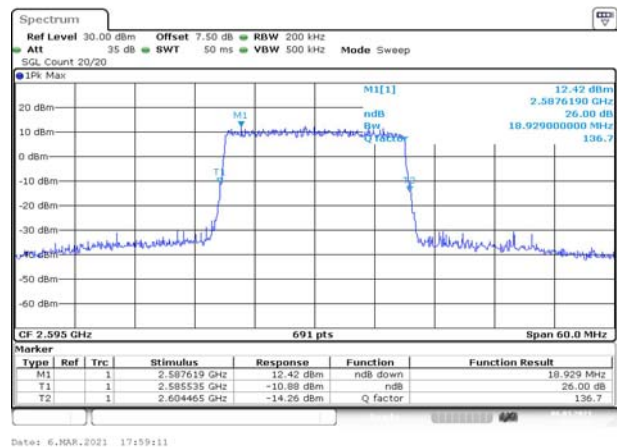


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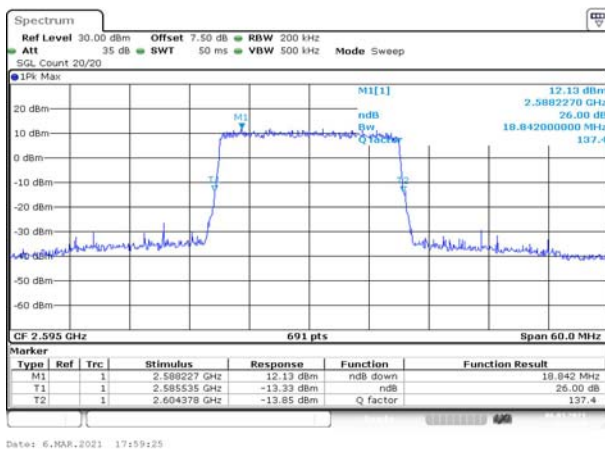


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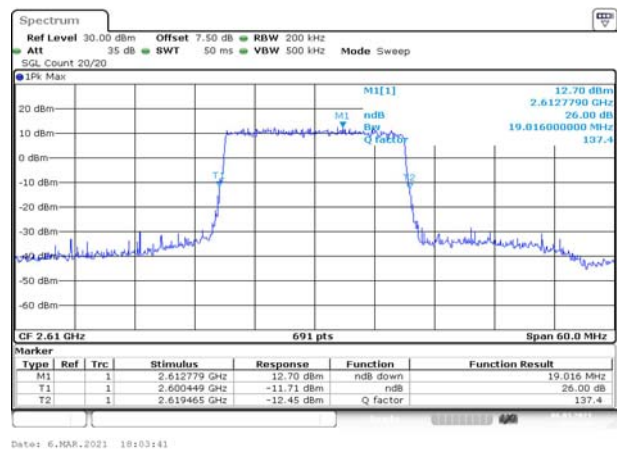


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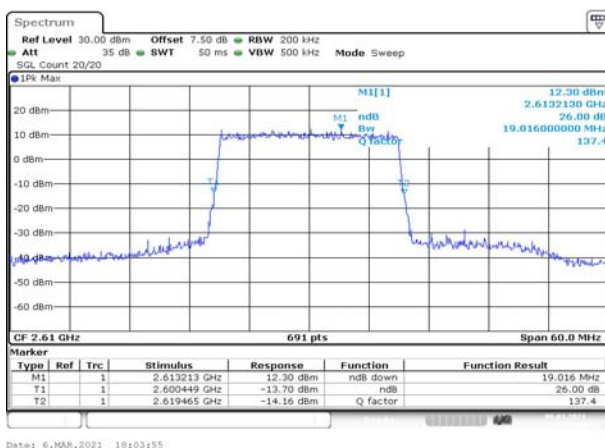


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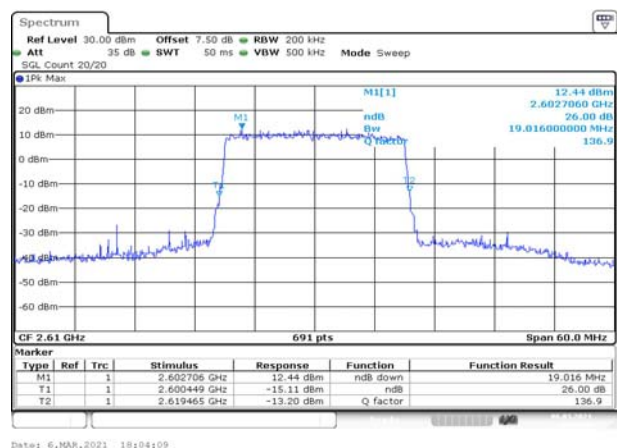


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
38	2572.5	37775	5	1	24	Fig.1	Fig.2	Fig.3
	2572.5	37775		25	0	Fig.4	Fig.5	Fig.6
	2595	38000		1	24	Fig.7	Fig.8	Fig.9
	2595	38000		25	0	Fig.10	Fig.11	Fig.12
	2617.5	38225		1	24	Fig.13	Fig.14	Fig.15
	2617.5	38225		25	0	Fig.16	Fig.17	Fig.18
	2575	37800	10	1	49	Fig.19	Fig.20	Fig.21
	2575	37800		50	0	Fig.22	Fig.23	Fig.24
	2595	38000		1	49	Fig.25	Fig.26	Fig.27
	2595	38000		50	0	Fig.28	Fig.29	Fig.30
	2615	38200		1	49	Fig.31	Fig.32	Fig.33
	2615	38200		50	0	Fig.34	Fig.35	Fig.36
	2577.5	37825	15	1	74	Fig.37	Fig.38	Fig.39
	2577.5	37825		75	0	Fig.40	Fig.41	Fig.42
	2595	38000		1	74	Fig.43	Fig.44	Fig.45
	2595	38000		75	0	Fig.46	Fig.47	Fig.48
	2612.5	38175		1	74	Fig.49	Fig.50	Fig.51
	2612.5	38175		75	0	Fig.52	Fig.53	Fig.54
	2580	37850	20	1	99	Fig.55	Fig.56	Fig.57
	2580	37850		100	0	Fig.58	Fig.59	Fig.60
	2595	38000		1	99	Fig.61	Fig.62	Fig.63
	2595	38000		100	0	Fig.64	Fig.65	Fig.66
	2610	38150		1	99	Fig.67	Fig.68	Fig.69
	2610	38150		100	0	Fig.70	Fig.71	Fig.72

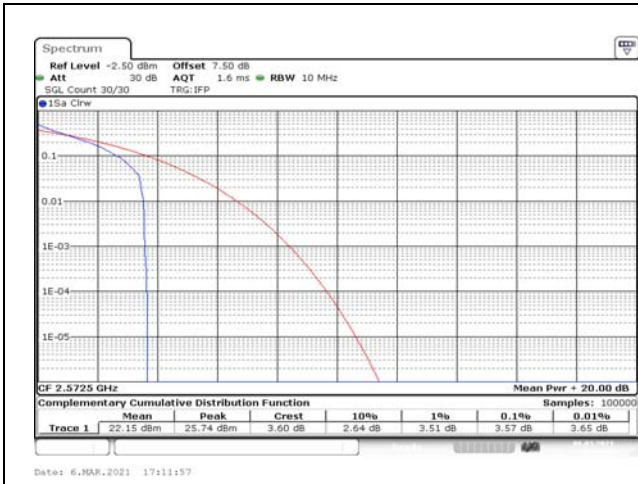


Fig.1

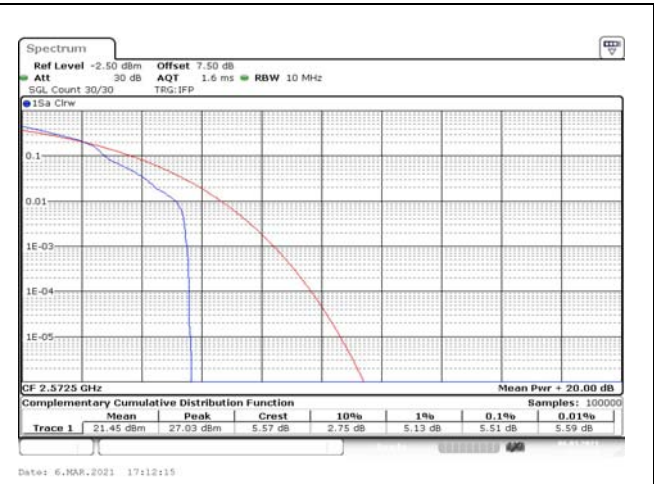


Fig.2

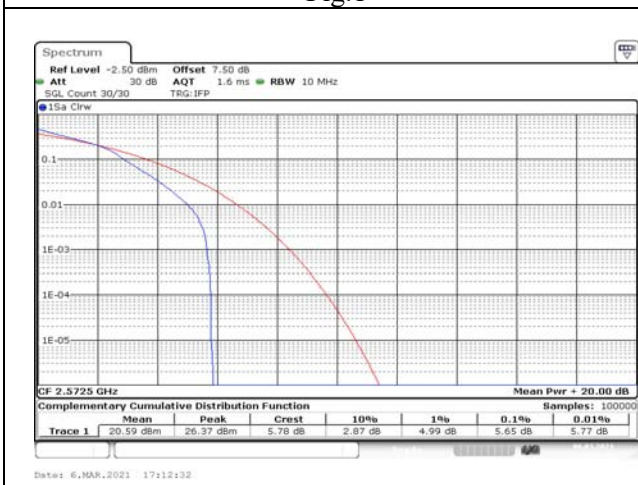


Fig.3

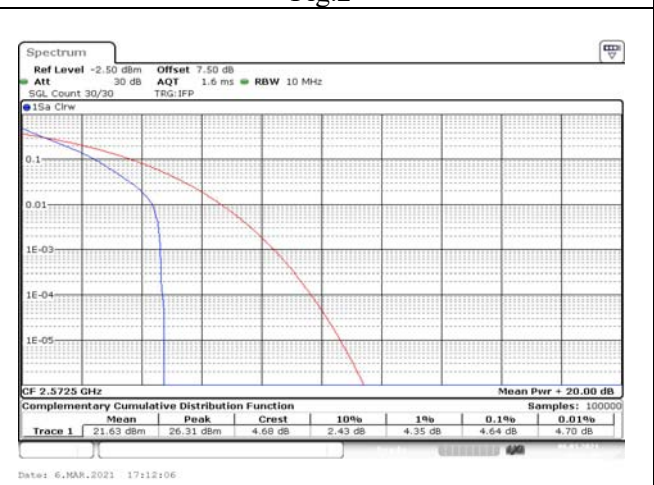


Fig.4

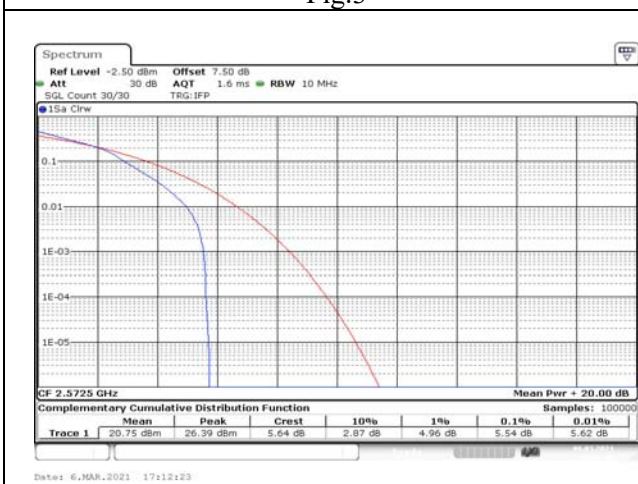


Fig.5

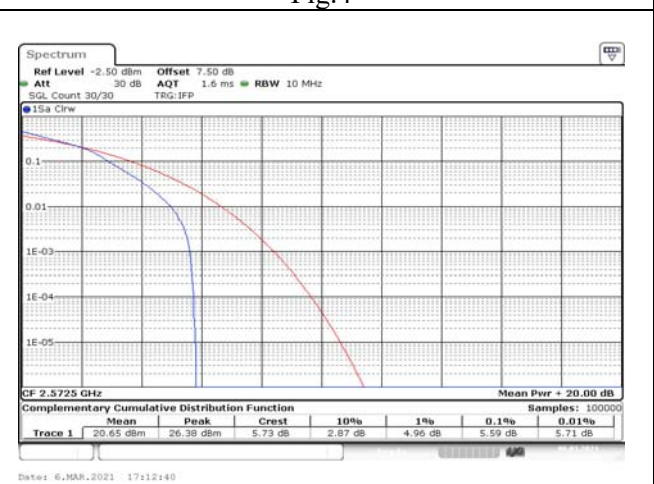


Fig.6

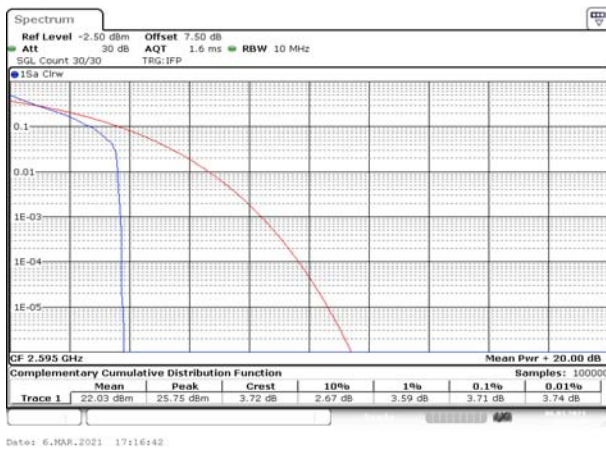


Fig.7

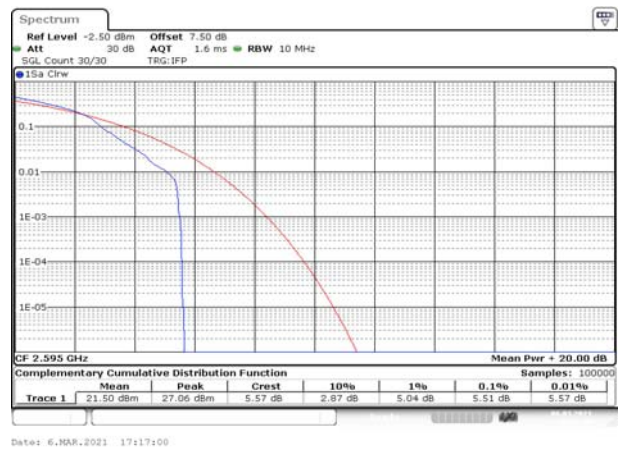


Fig.8

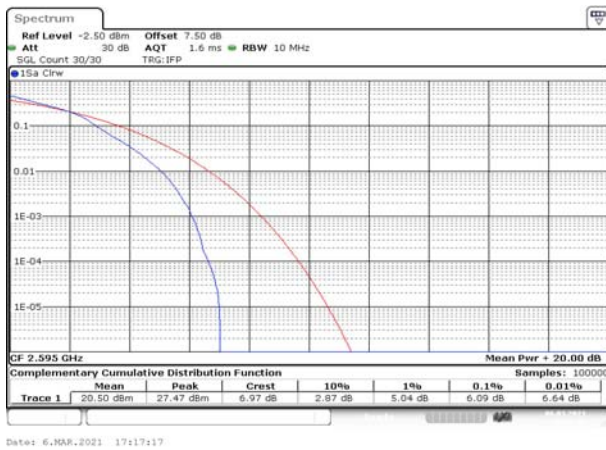


Fig.9

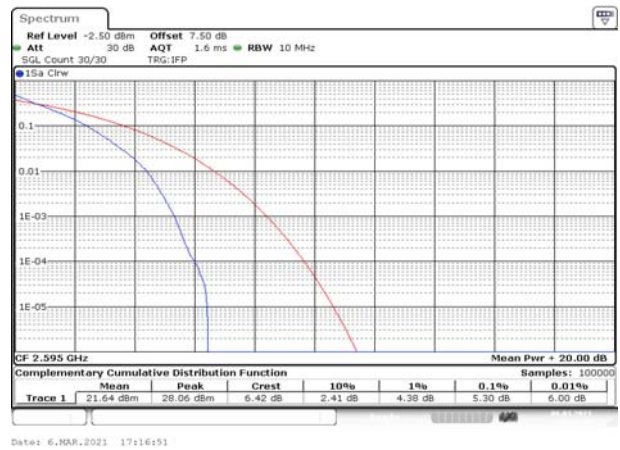


Fig.10

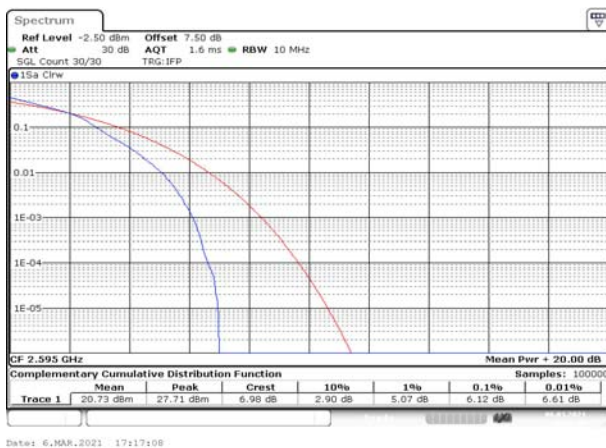


Fig.11

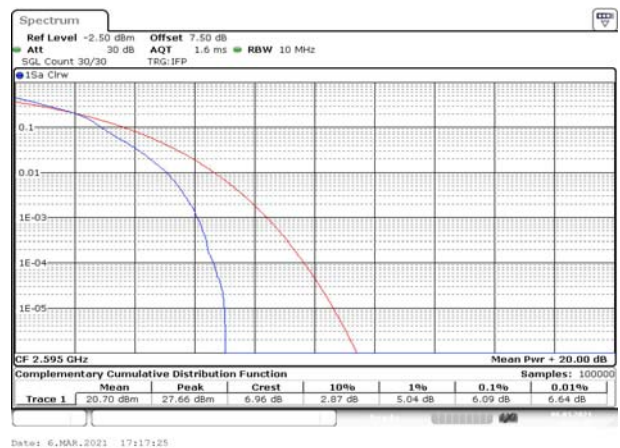


Fig.12

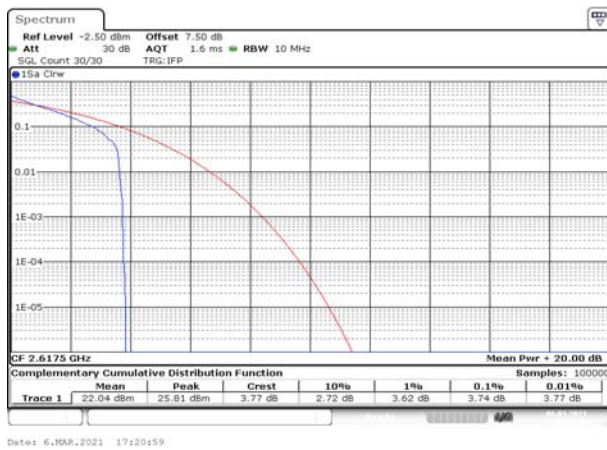


Fig.13

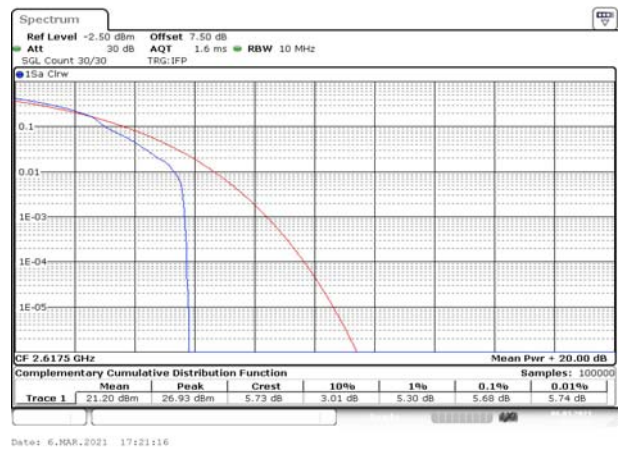


Fig.14

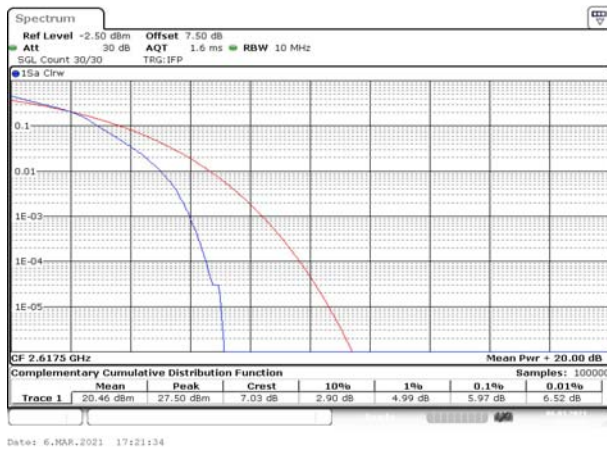


Fig.15

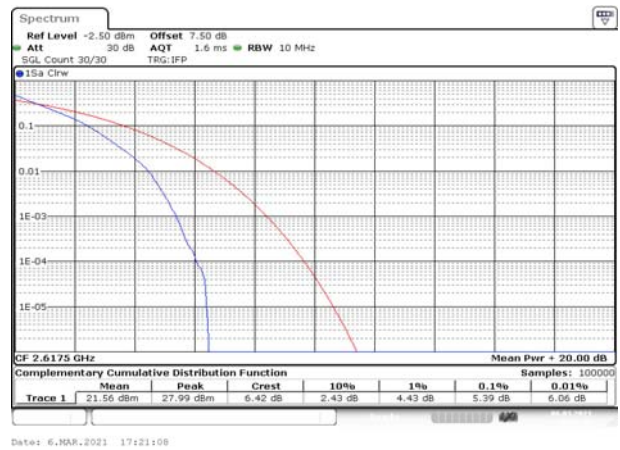


Fig.16

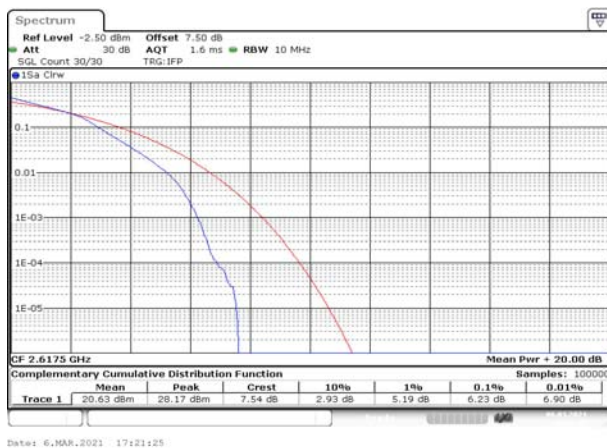


Fig.17

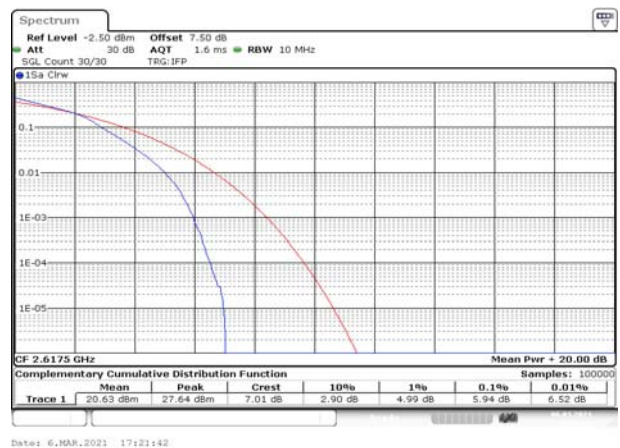


Fig.18

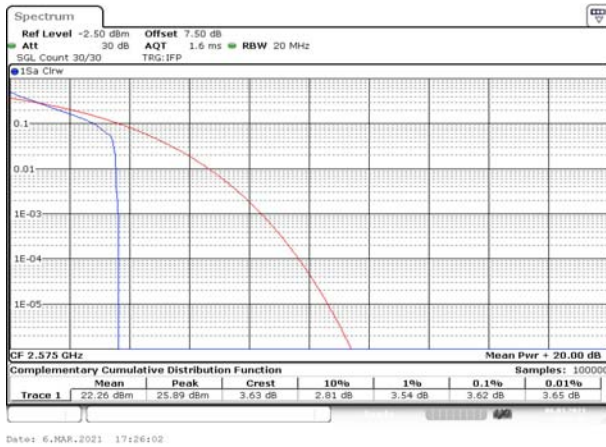


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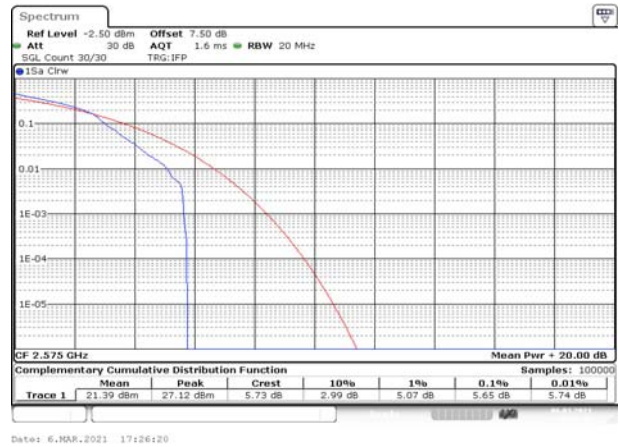


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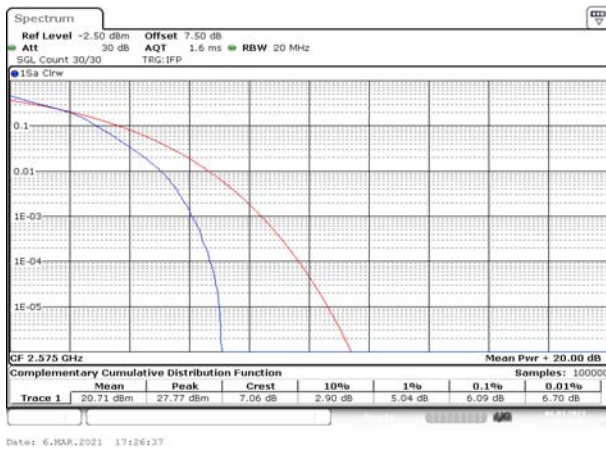


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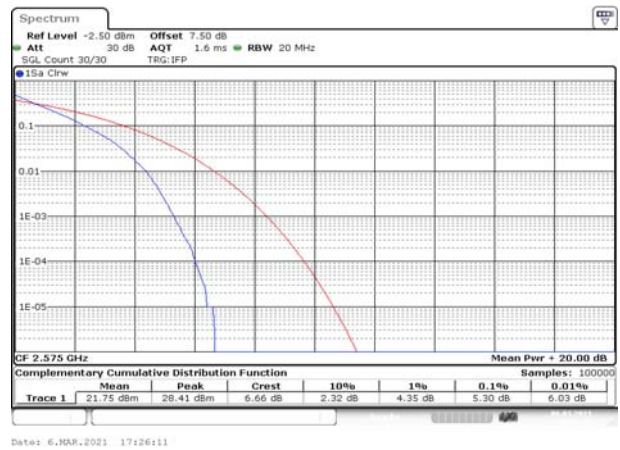


Fig.22

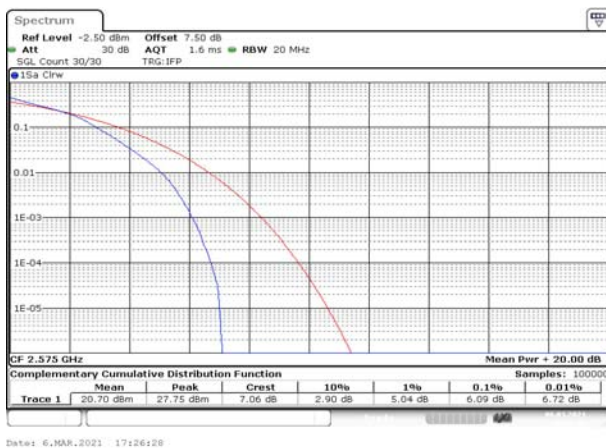


Fig.23

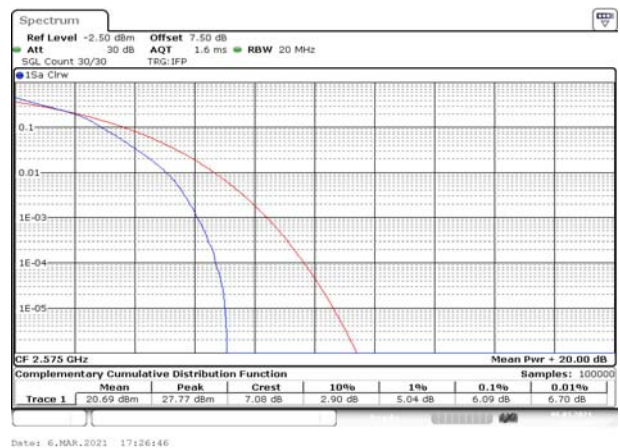


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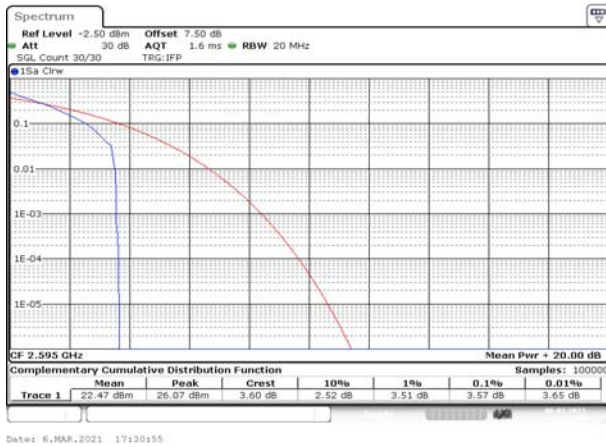


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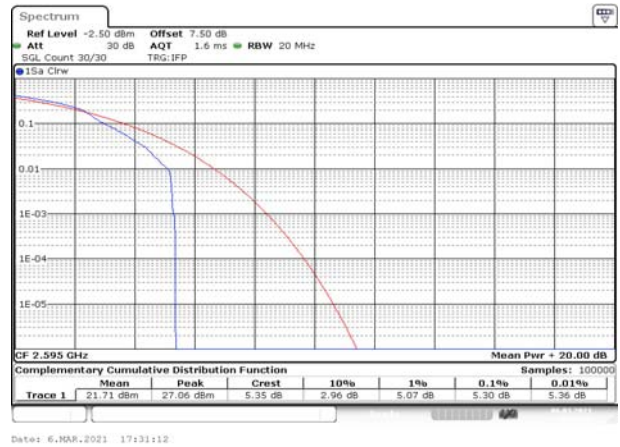


Fig.26

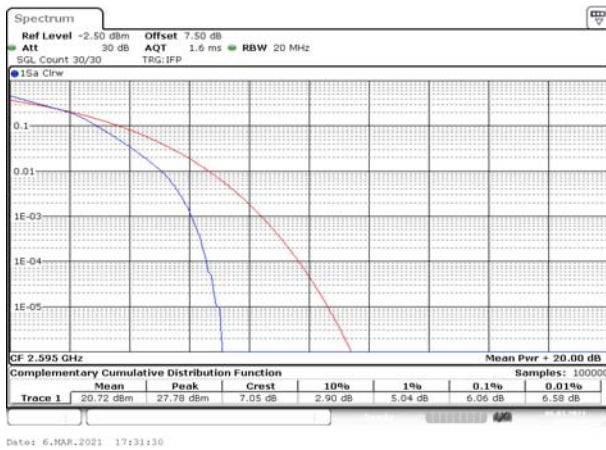


Fig.27

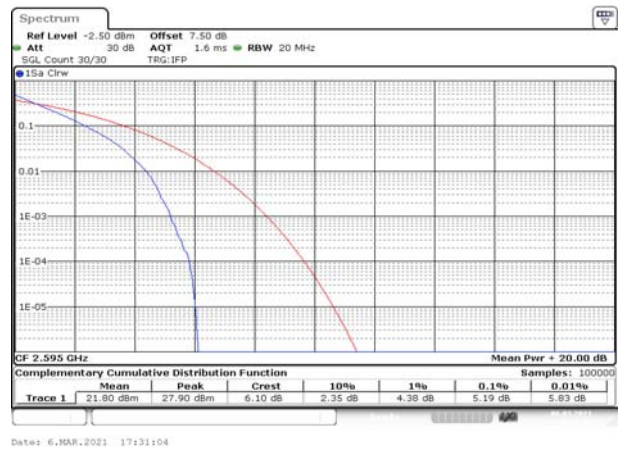


Fig.28

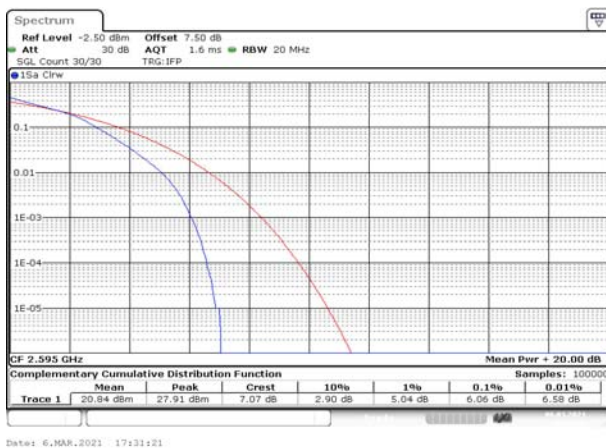


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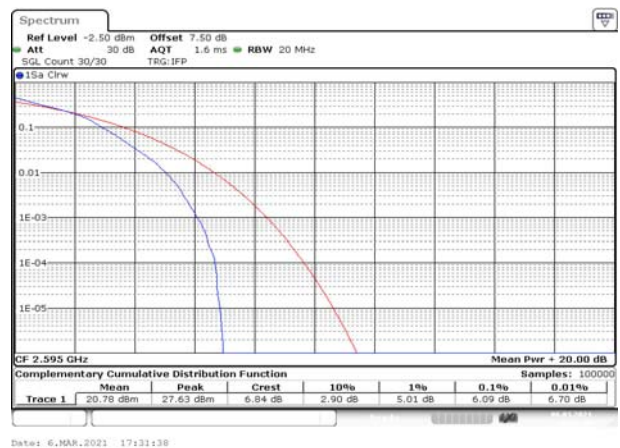


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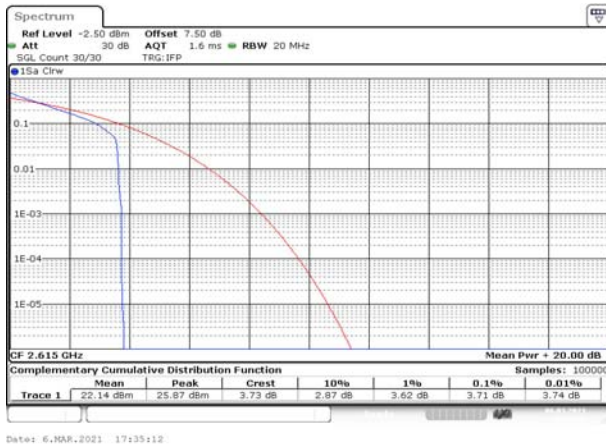


Fig.31

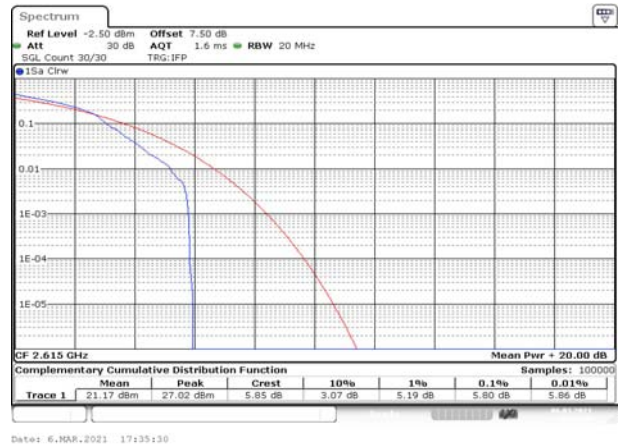


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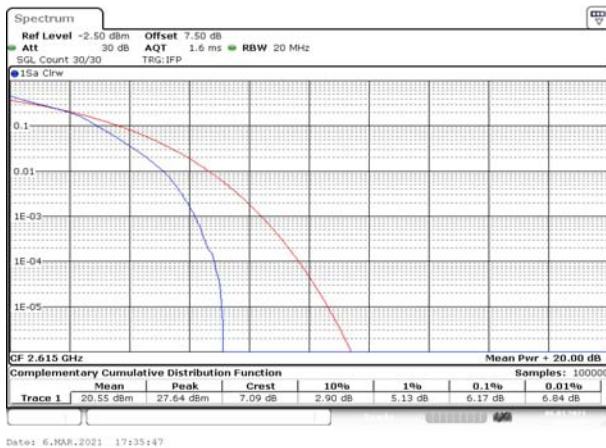


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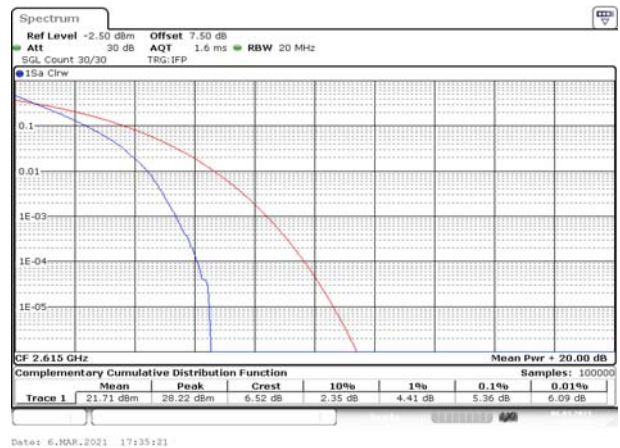


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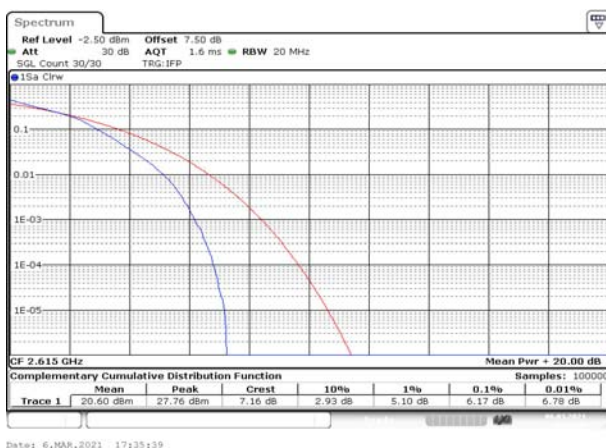


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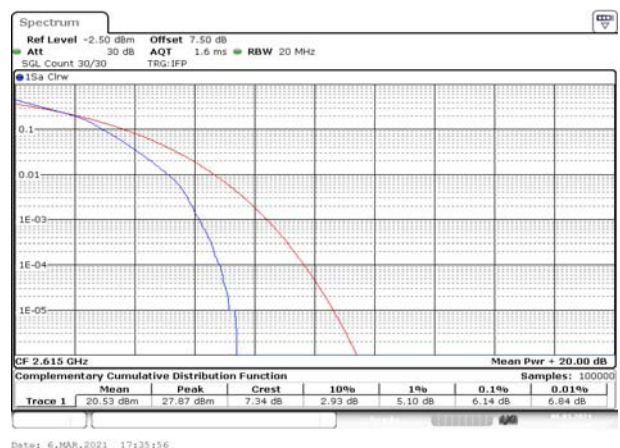


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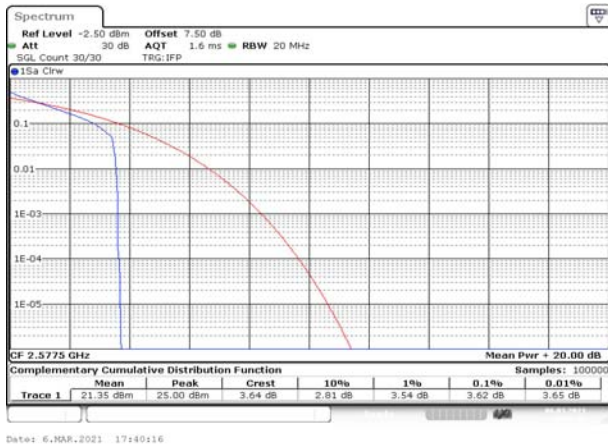


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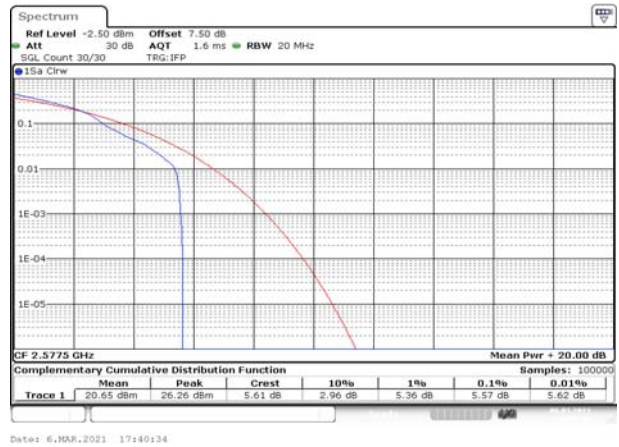


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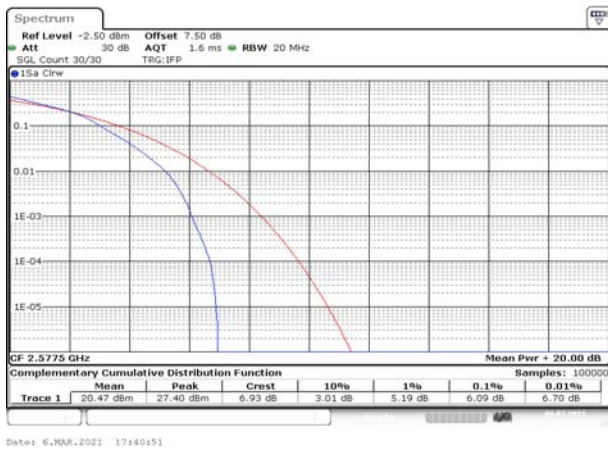


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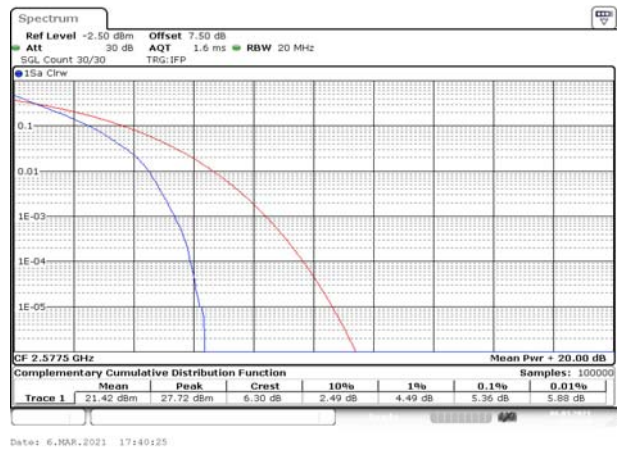


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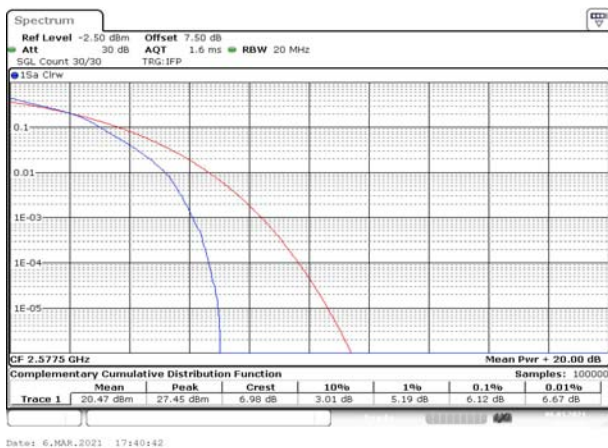


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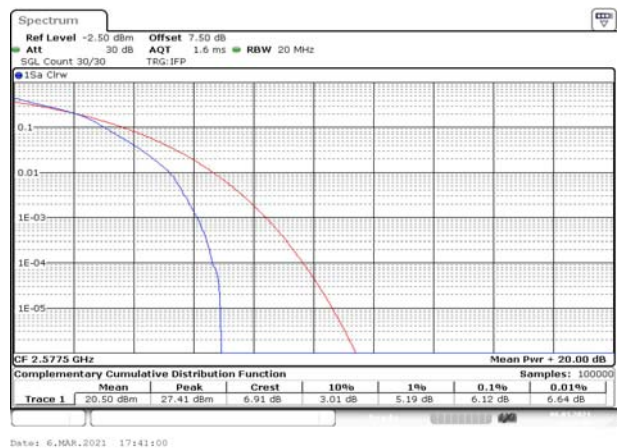


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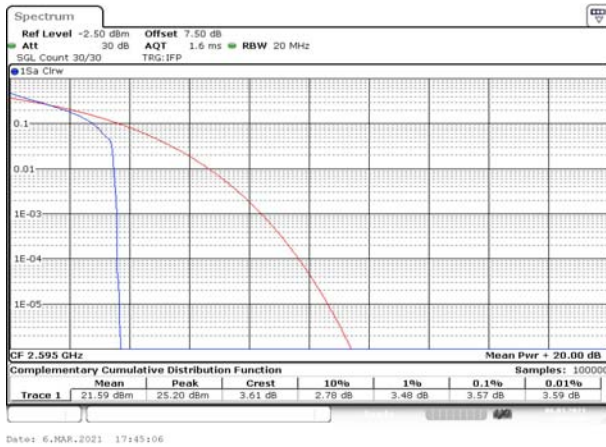


Fig.43

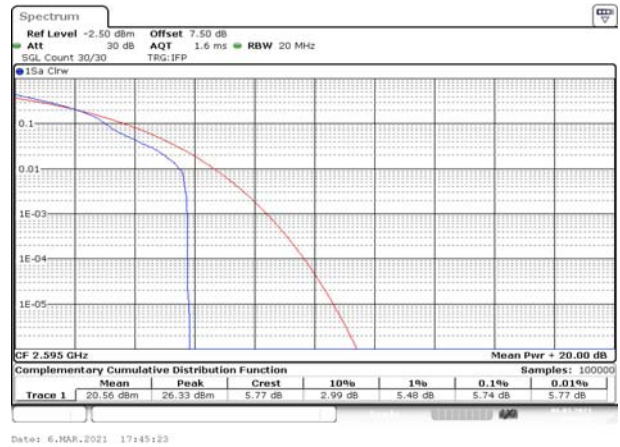


Fig.44

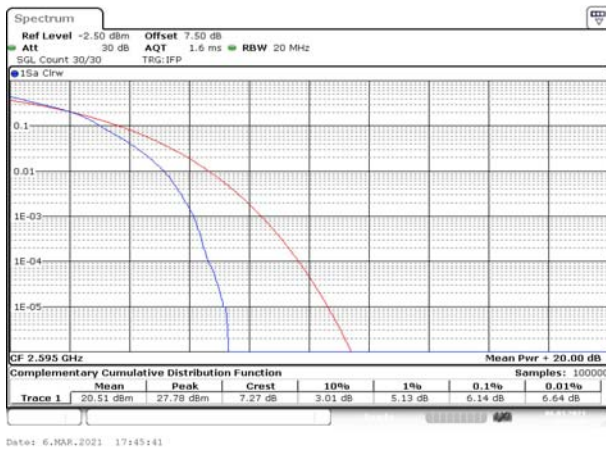


Fig.45

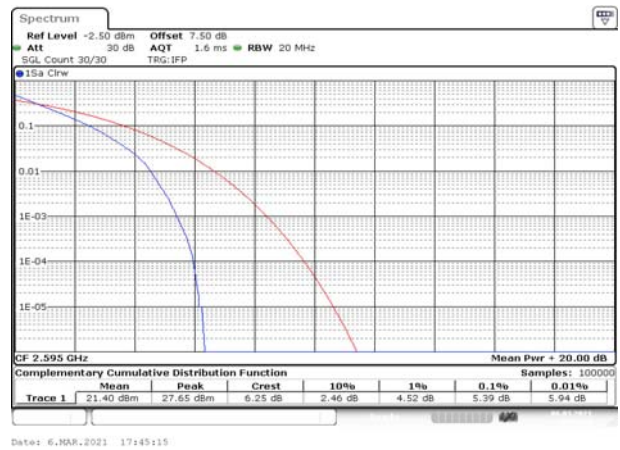


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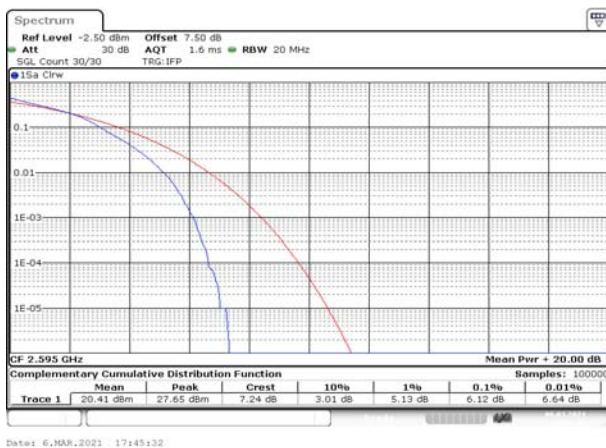


Fig.47

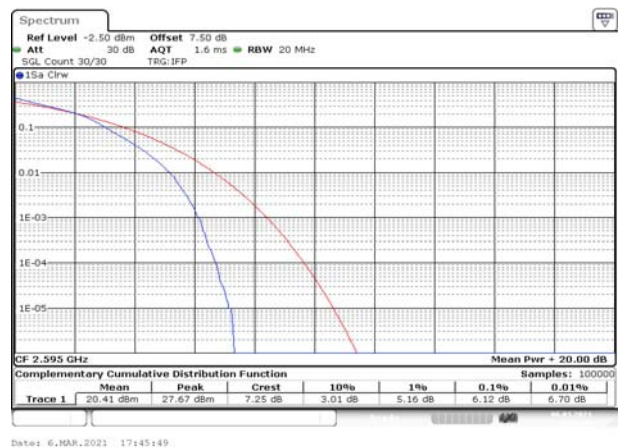


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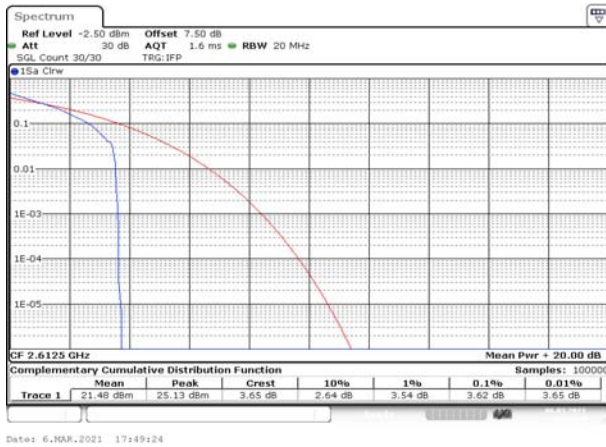


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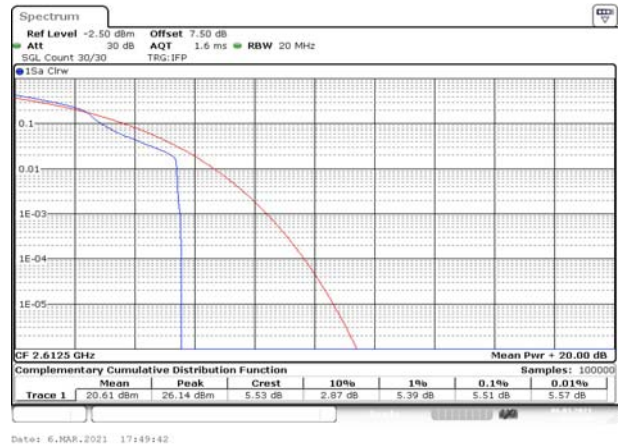


Fig.50

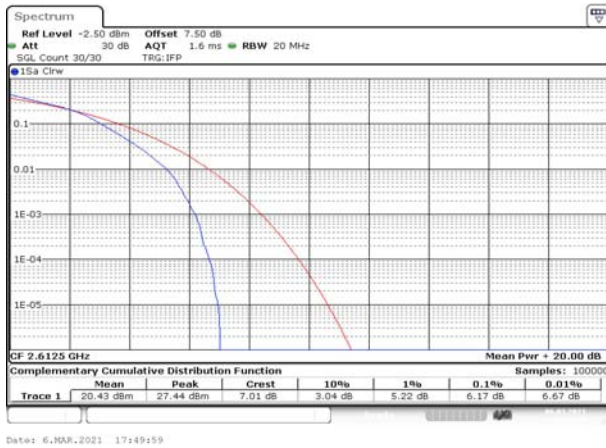


Fig.51

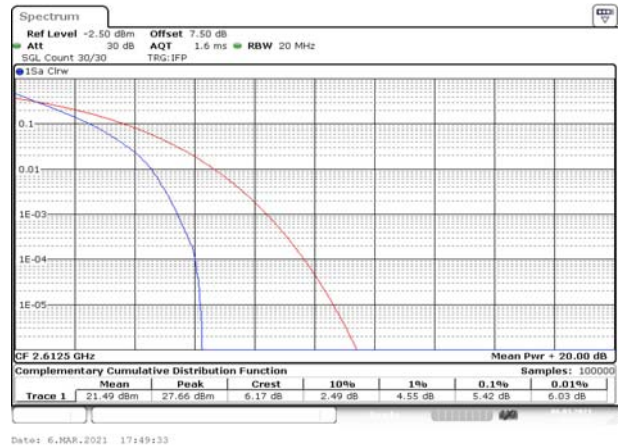


Fig.52

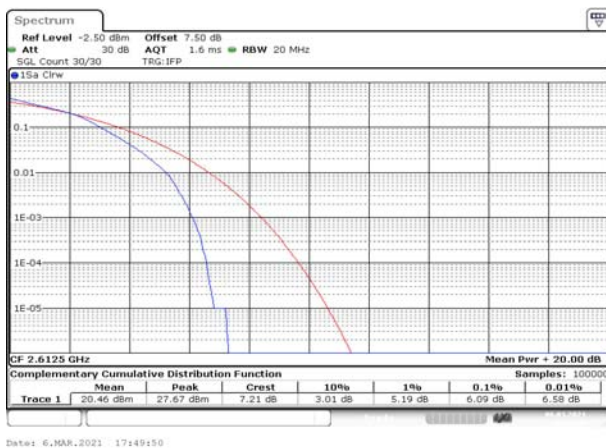


Fig.53

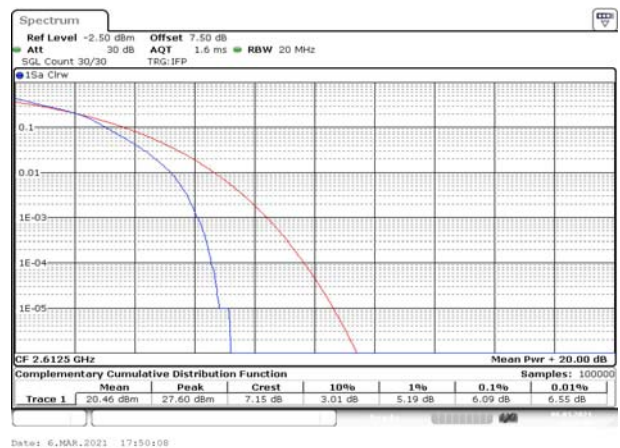


Fig.54

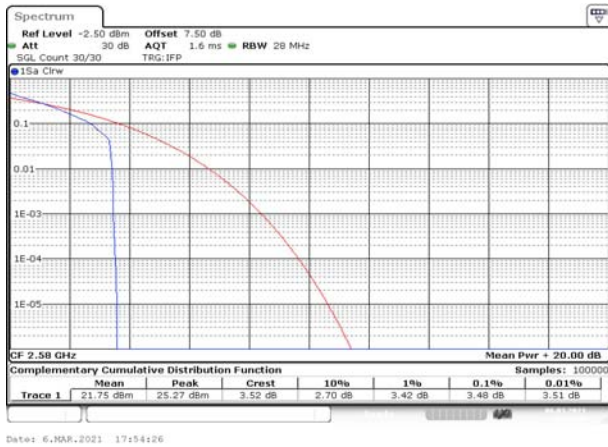


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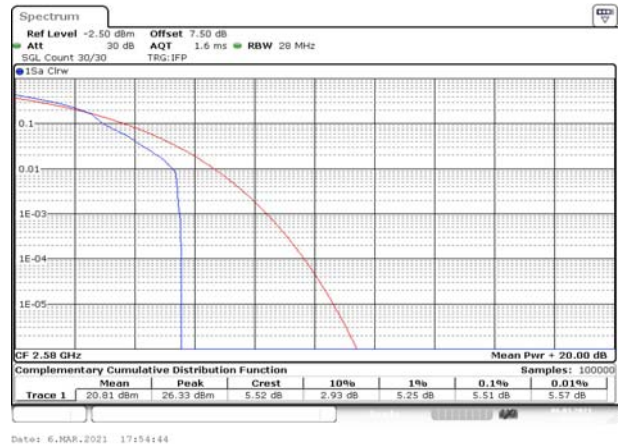


Fig.56

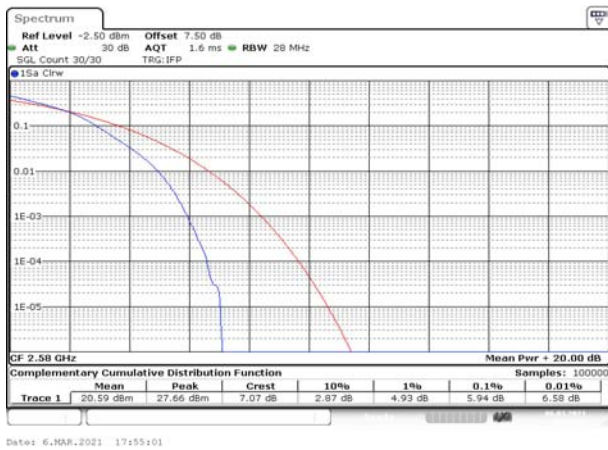


Fig.57

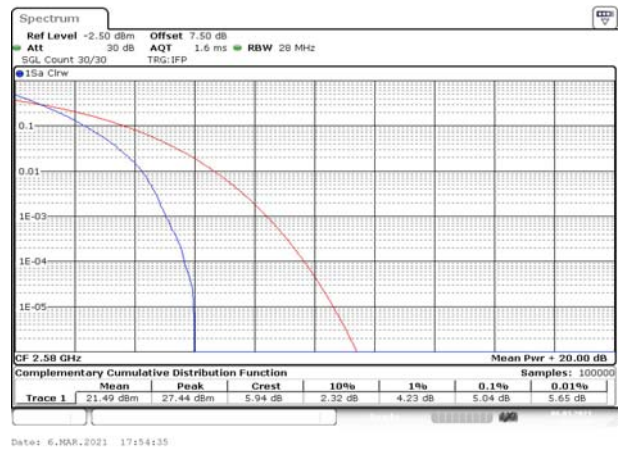


Fig.58

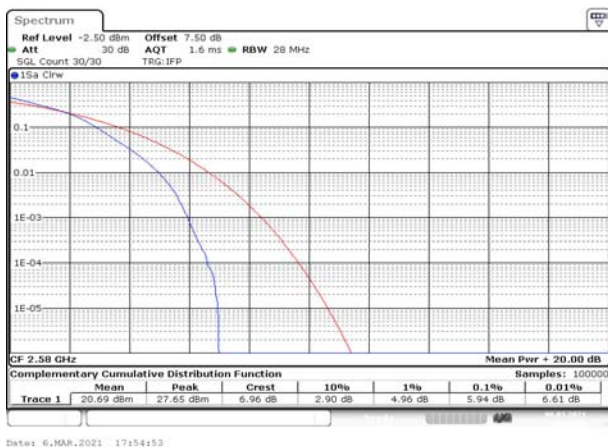


Fig.59

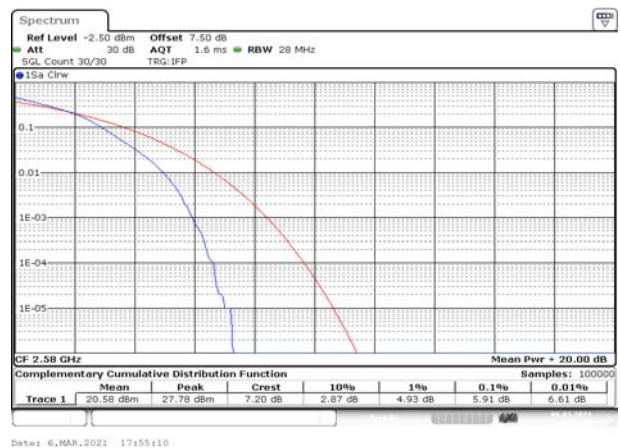


Fig.60

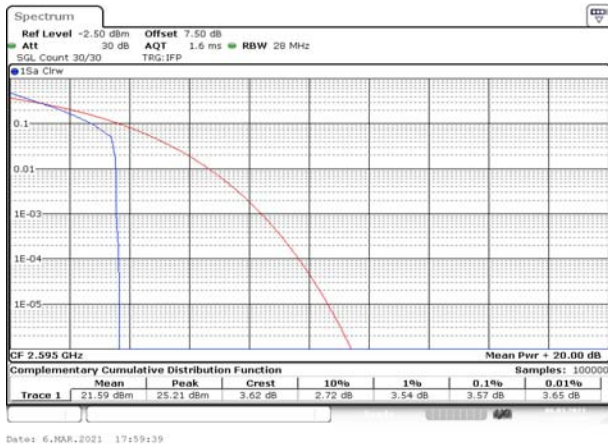


Fig.61

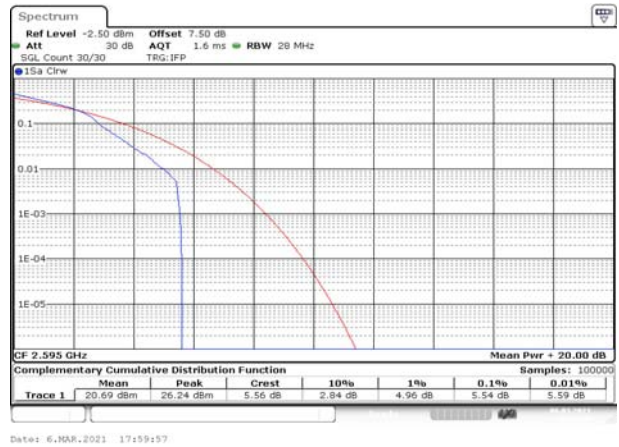


Fig.62

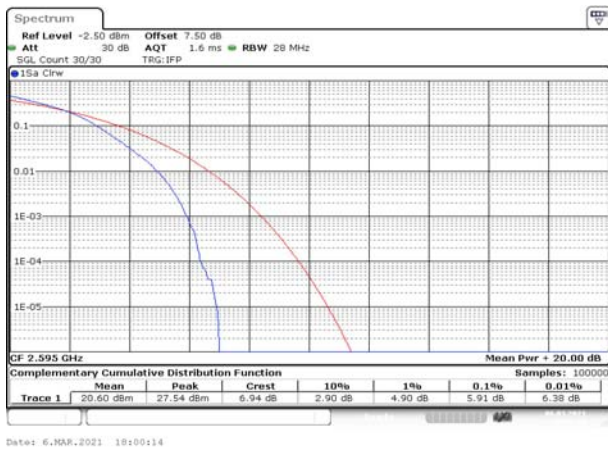


Fig.63

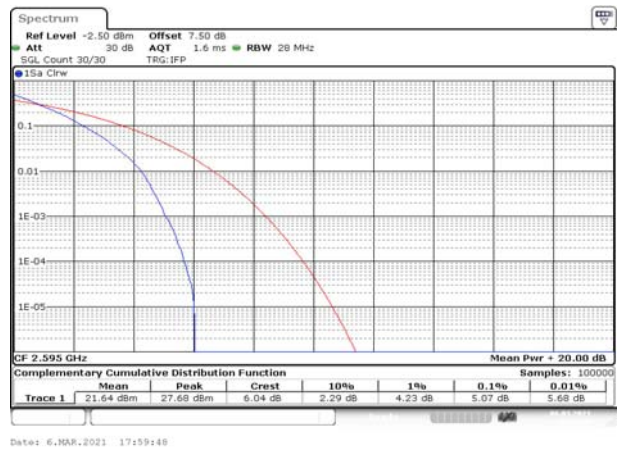


Fig.64

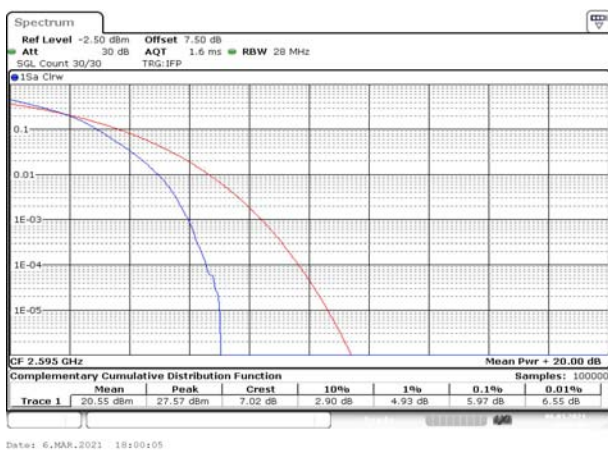


Fig.65

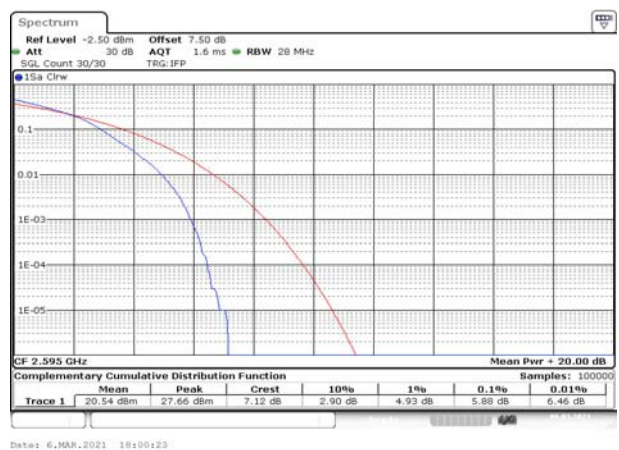


Fig.66

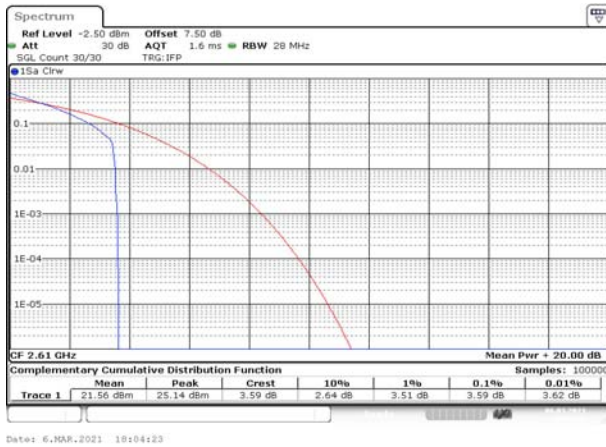


Fig.67

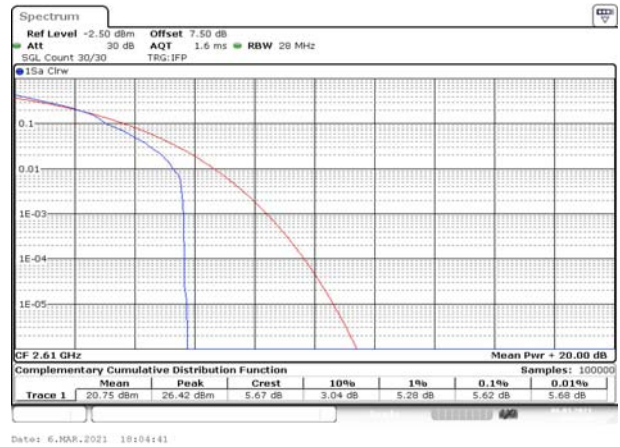


Fig.68

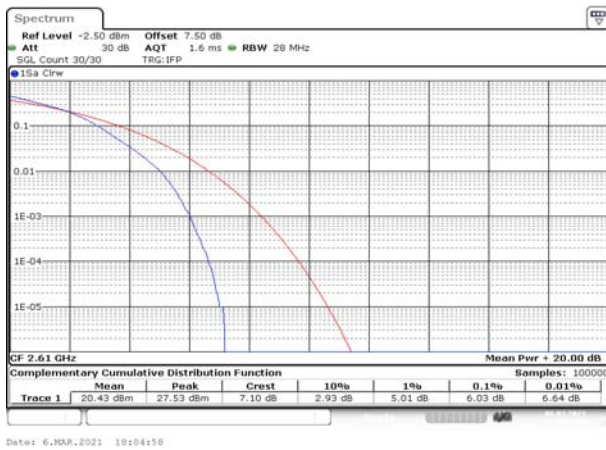


Fig.69

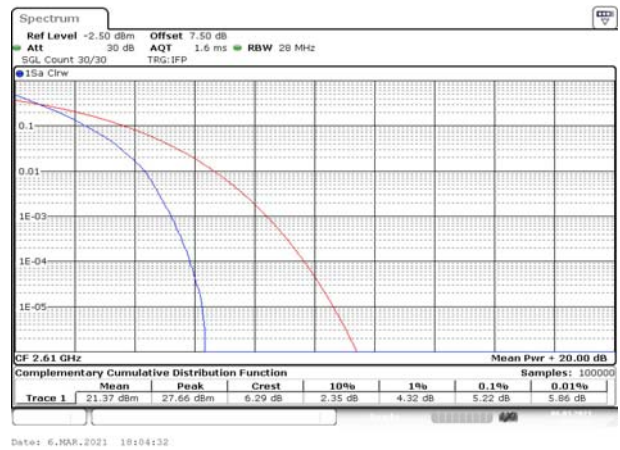


Fig.70

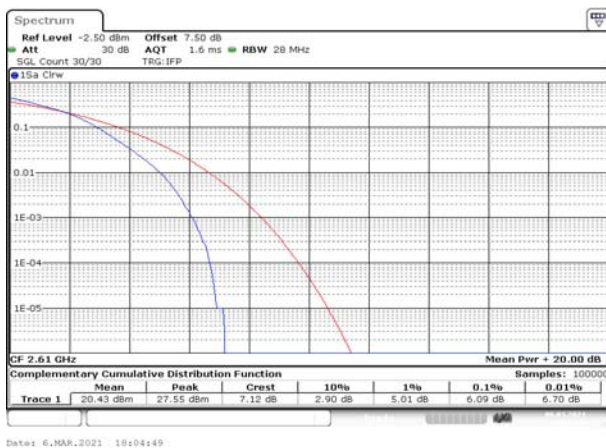


Fig.71

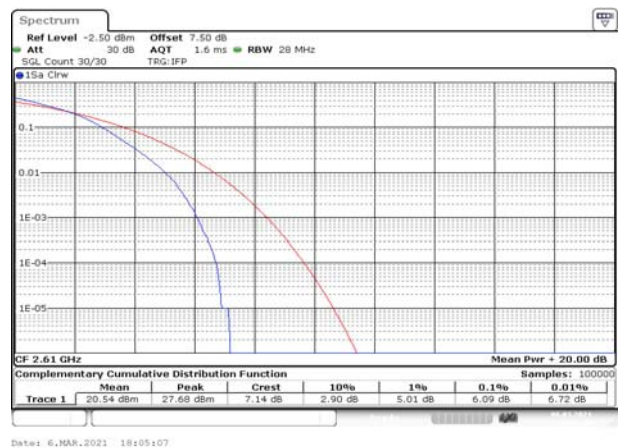


Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
38	2580	37850	20	1	0	Fig.1
	2595	38000		1	0	Fig.2
	2610	38150		1	0	Fig.3

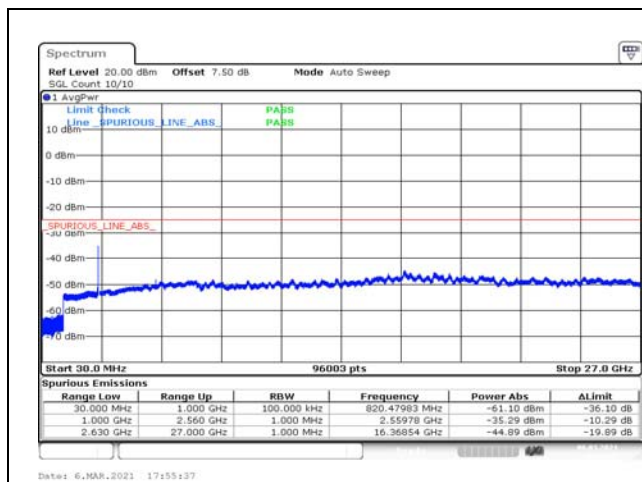


Fig.1

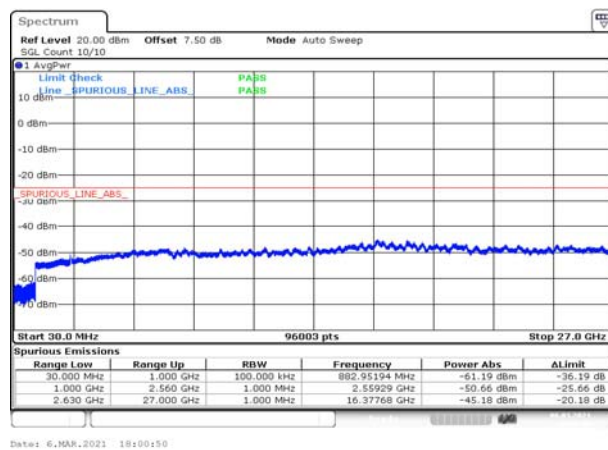


Fig.2

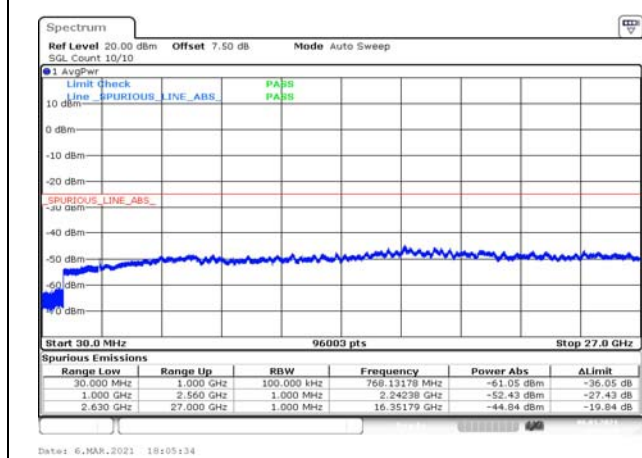


Fig.3

6 Band Edges Compliance

Band Edges Compliance						
Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
38	2572.5	37775	5	1	0	Fig.1
				25	0	Fig.2
		38225		1	24	Fig.3
				25	0	Fig.4
	2575	37800	10	1	0	Fig.5
				50	0	Fig.6
		38200		1	49	Fig.7
				50	0	Fig.8
	2577.5	37825	15	1	0	Fig.9
				75	0	Fig.10
		38175		1	74	Fig.11
				75	0	Fig.12
	2580	37850	20	1	0	Fig.13
				100	0	Fig.14
		38150		1	99	Fig.15
				100	0	Fig.16