

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1850.7	18607	1.4	1	0	23.02
				1	3	23.04
				1	5	23.06
				3	0	23.20
				3	1	23.22
				3	3	23.07
				6	0	22.05
	1880	18900		1	0	23.14
				1	3	23.10
				1	5	23.09
				3	0	22.68
				3	1	22.75
				3	3	22.68
				6	0	21.91
	1909.3	19193		1	0	23.09
				1	3	23.14
				1	5	23.07
				3	0	23.06
				3	1	23.09
				3	3	22.99
				6	0	22.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	23.26
				1	3	23.27
				1	5	23.17
				3	0	23.32
				3	1	23.35
				3	3	23.42
				6	0	22.84
	1880	18900		1	0	23.29
				1	3	23.36
				1	5	23.38
				3	0	23.28
				3	1	23.32
				3	3	23.25
				6	0	22.62
	1909.3	19193		1	0	23.80
				1	3	23.74
				1	5	23.76
				3	0	23.63
				3	1	23.55
				3	3	23.61
				6	0	23.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1851.5	18615	3	1	0	22.97
				1	8	22.97
				1	14	22.98
				8	0	21.98
				8	4	21.95
				8	7	22.01
				15	0	22.02
	1880	18900		1	0	23.15
				1	8	23.13
				1	14	23.10
				8	0	21.76
				8	4	21.80
				8	7	21.76
				15	0	21.80
	1908.5	19185		1	0	23.06
				1	8	23.06
				1	14	23.09
				8	0	22.08
				8	4	22.09
				8	7	22.13
				15	0	22.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	23.33
				1	8	23.31
				1	14	23.31
				8	0	22.79
				8	4	22.87
				8	7	22.83
				15	0	22.82
	1880	18900		1	0	23.40
				1	8	23.36
				1	14	23.37
				8	0	22.81
				8	4	22.70
				8	7	22.66
				15	0	22.66
	1908.5	19185		1	0	23.82
				1	8	23.79
				1	14	23.78
				8	0	23.03
				8	4	23.01
				8	7	22.99
				15	0	23.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1852.5	18625	5	1	0	22.50
				1	12	22.44
				1	24	22.43
				12	0	21.89
				12	7	21.87
				12	13	21.99
				25	0	22.05
	1880	18900		1	0	22.83
				1	12	22.76
				1	24	22.78
				12	0	21.51
				12	7	21.64
				12	13	21.64
				25	0	21.78
	1907.5	19175		1	0	23.37
				1	12	23.25
				1	24	23.33
				12	0	22.03
				12	7	22.03
				12	13	22.03
				25	0	22.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	23.50
				1	12	23.47
				1	24	23.45
				12	0	22.86
				12	7	22.85
				12	13	22.85
				25	0	22.82
	1880	18900		1	0	23.07
				1	12	23.07
				1	24	23.10
				12	0	22.76
				12	7	22.66
				12	13	22.74
				25	0	22.75
	1907.5	19175		1	0	23.59
				1	12	23.59
				1	24	23.59
				12	0	23.11
				12	7	23.10
				12	13	23.15
				25	0	23.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1855	18650	10	1	0	23.93
				1	25	23.77
				1	49	23.64
				25	0	22.01
				25	12	22.07
				25	25	21.98
				50	0	21.97
	1880	18900		1	0	23.19
				1	25	23.19
				1	49	23.19
				25	0	21.92
				25	12	21.81
				25	25	21.92
				50	0	21.83
	1905	19150		1	0	23.25
				1	25	23.33
				1	49	23.29
				25	0	22.29
				25	12	22.33
				25	25	22.36
				50	0	22.23

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	23.46
				1	25	23.43
				1	49	23.39
				25	0	22.96
				25	12	22.78
				25	25	22.91
				50	0	22.87
	1880	18900		1	0	23.48
				1	25	23.37
				1	49	23.40
				25	0	22.76
				25	12	22.72
				25	25	22.79
				50	0	22.65
	1905	19150		1	0	23.46
				1	25	23.54
				1	49	23.55
				25	0	23.06
				25	12	23.09
				25	25	23.03
				50	0	23.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1857.5	18675	15	1	0	23.82
				1	37	23.74
				1	74	23.55
				36	0	21.96
				36	29	21.95
				36	30	21.95
				75	0	22.02
	1880	18900		1	0	23.22
				1	37	23.18
				1	74	23.21
				36	0	21.85
				36	29	21.87
				36	30	21.88
				75	0	21.81
	1902.5	19125		1	0	23.26
				1	37	23.32
				1	74	23.45
				36	0	21.99
				36	29	22.14
				36	30	22.13
				75	0	22.12

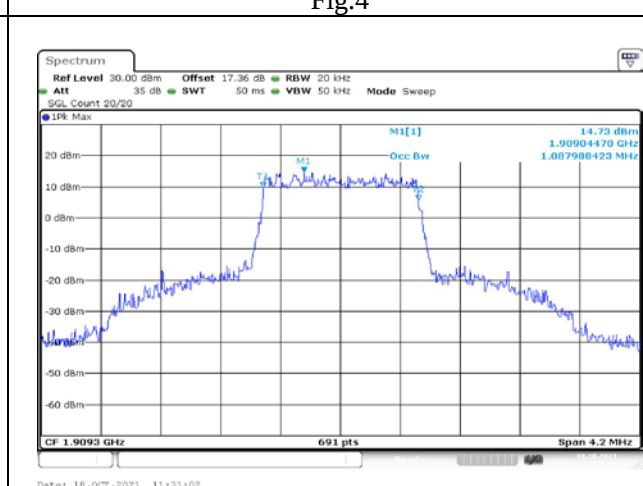
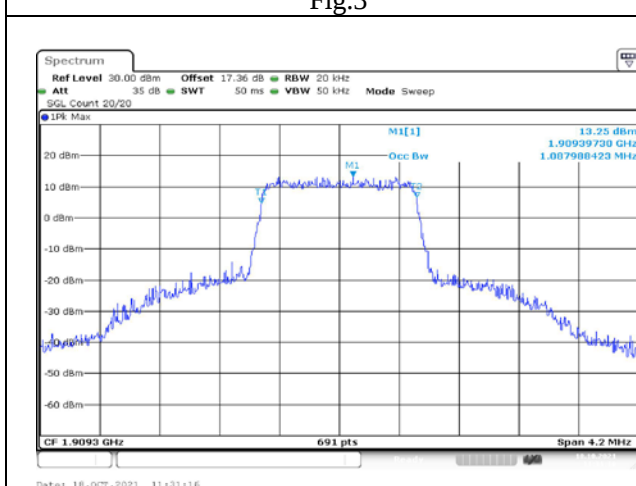
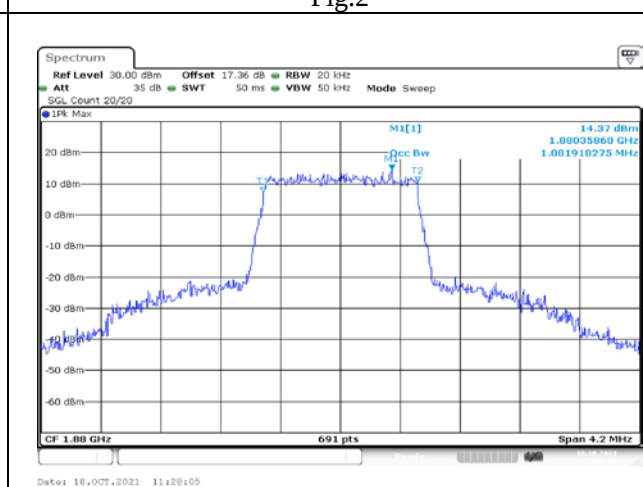
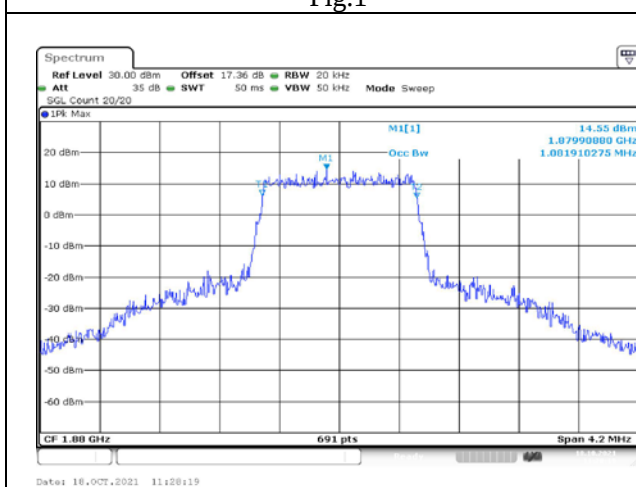
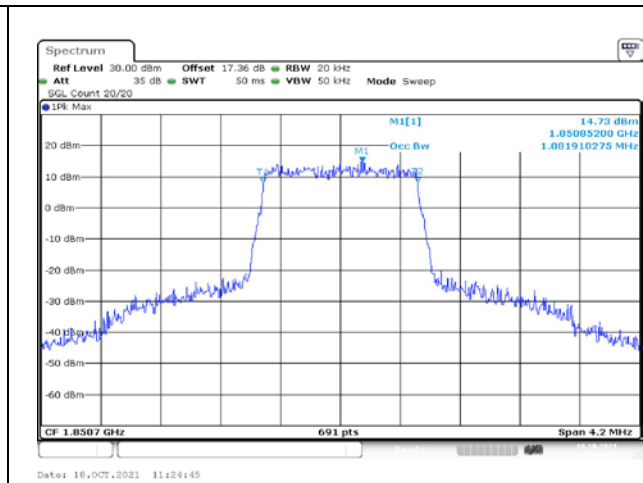
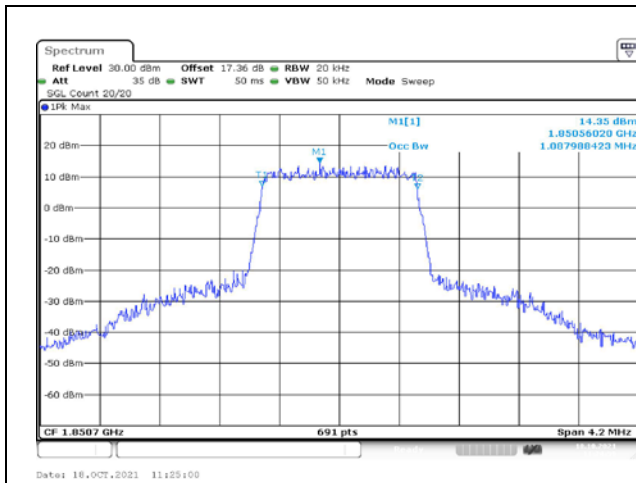
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	23.52
				1	37	23.37
				1	74	23.25
				36	0	22.87
				36	29	22.75
				36	30	22.75
				75	0	22.81
	1880	18900		1	0	23.36
				1	37	23.40
				1	74	23.46
				36	0	22.66
				36	29	22.69
				36	30	22.69
				75	0	22.68
	1902.5	19125		1	0	23.13
				1	37	23.34
				1	74	23.30
				36	0	22.97
				36	29	23.08
				36	30	23.07
				75	0	22.95

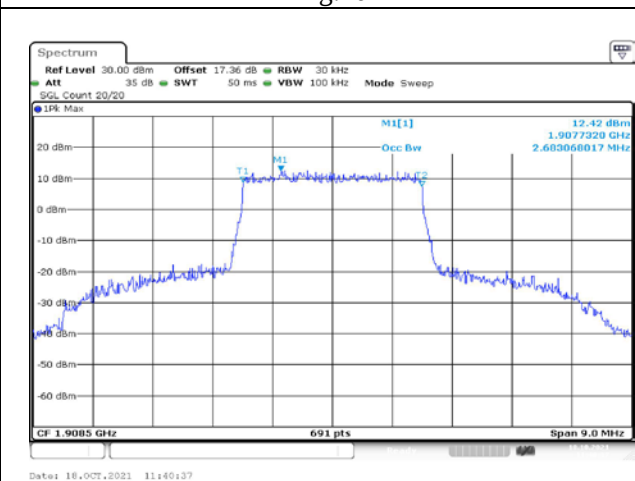
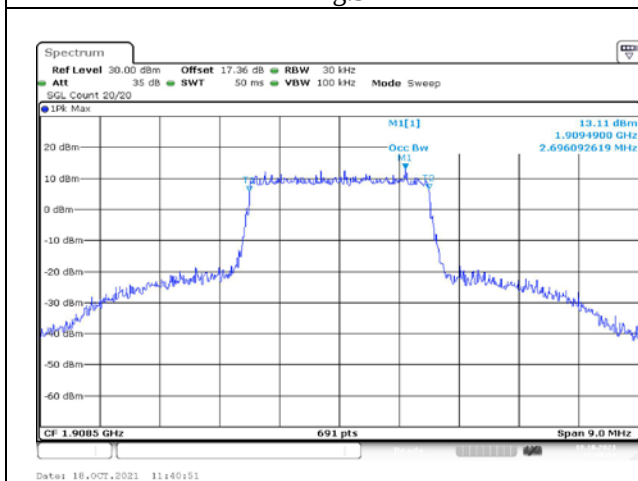
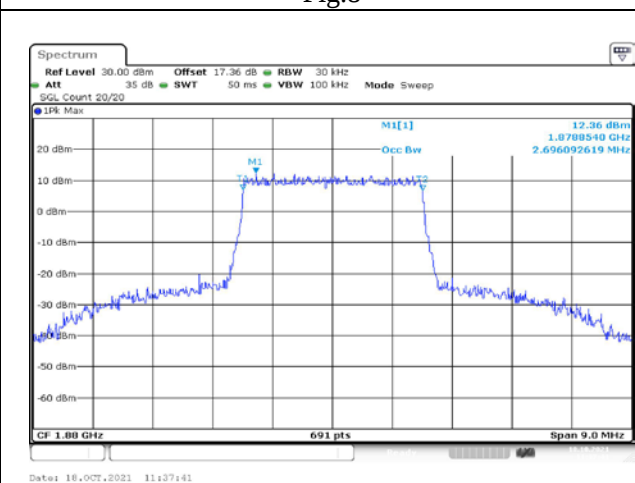
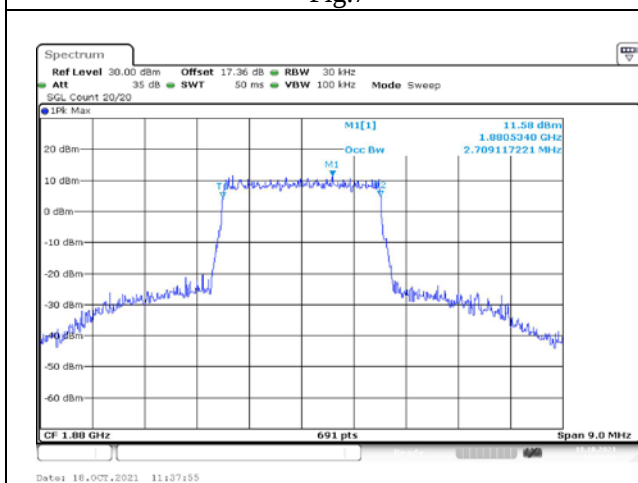
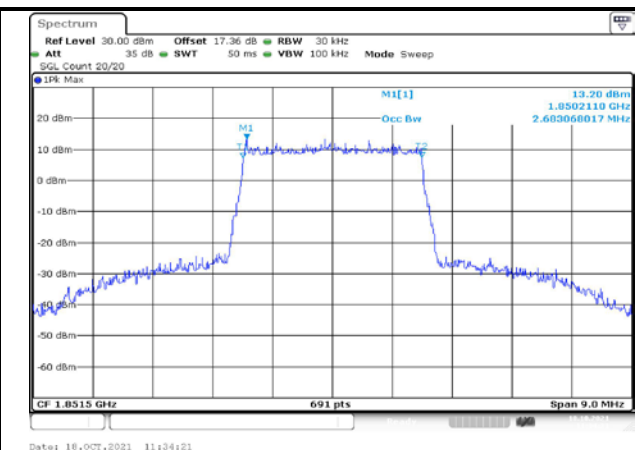
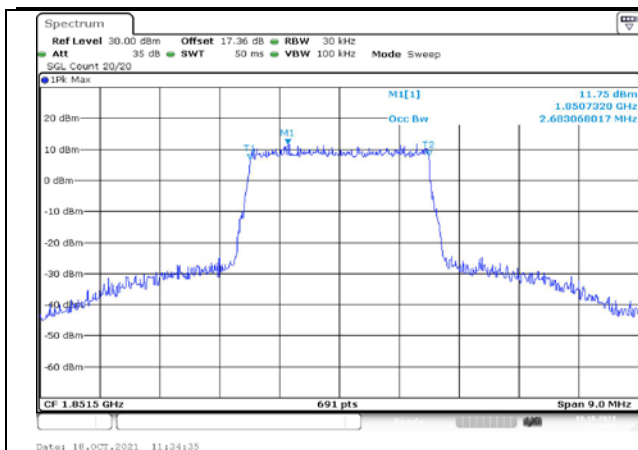
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1860	18700	20	1	0	23.54
				1	49	23.35
				1	99	23.23
				50	0	22.06
				50	24	22.01
				50	50	21.89
				100	0	21.97
	1880	18900		1	0	22.75
				1	49	22.74
				1	99	22.92
				50	0	21.91
				50	24	21.94
				50	50	21.88
				100	0	21.77
	1900	19100		1	0	23.22
				1	49	23.28
				1	99	23.40
				50	0	22.02
				50	24	22.01
				50	50	22.09
				100	0	22.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	23.44
				1	49	23.32
				1	99	23.25
				50	0	22.91
				50	24	22.93
				50	50	22.71
				100	0	22.91
	1880	18900		1	0	23.24
				1	49	23.35
				1	99	23.42
				50	0	22.86
				50	24	22.68
				50	50	22.84
				100	0	22.82
	1900	19100		1	0	23.36
				1	49	23.42
				1	99	23.53
				50	0	22.97
				50	24	23.04
				50	50	22.99
				100	0	23.00

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.082	Fig.1	1.088	Fig.2	---	---
	1880	18900		6	0	1.082	Fig.3	1.082	Fig.4	---	---
	1909.3	19193		6	0	1.088	Fig.5	1.088	Fig.6	---	---
	1851.5	18615	3	15	0	2.683	Fig.7	2.683	Fig.8	---	---
	1880	18900		15	0	2.696	Fig.9	2.709	Fig.10	---	---
	1908.5	19185		15	0	2.683	Fig.11	2.696	Fig.12	---	---
	1852.5	18625	5	25	0	4.472	Fig.13	4.472	Fig.14	---	---
	1880	18900		25	0	4.472	Fig.15	4.472	Fig.16	---	---
	1907.5	19175		25	0	4.472	Fig.17	4.472	Fig.18	---	---
	1855	18650	10	50	0	8.944	Fig.19	8.944	Fig.20	---	---
	1880	18900		50	0	8.944	Fig.21	8.944	Fig.22	---	---
	1905	19150		50	0	8.944	Fig.23	8.987	Fig.24	---	---
	1857.5	18675	15	75	0	13.415	Fig.25	13.415	Fig.26	---	---
	1880	18900		75	0	13.480	Fig.27	13.415	Fig.28	---	---
	1902.5	19125		75	0	13.480	Fig.29	13.480	Fig.30	---	---
	1860	18700	20	100	0	17.887	Fig.31	17.887	Fig.32	---	---
	1880	18900		100	0	17.887	Fig.33	17.887	Fig.34	---	---
	1900	19100		100	0	17.887	Fig.35	17.887	Fig.36	---	---





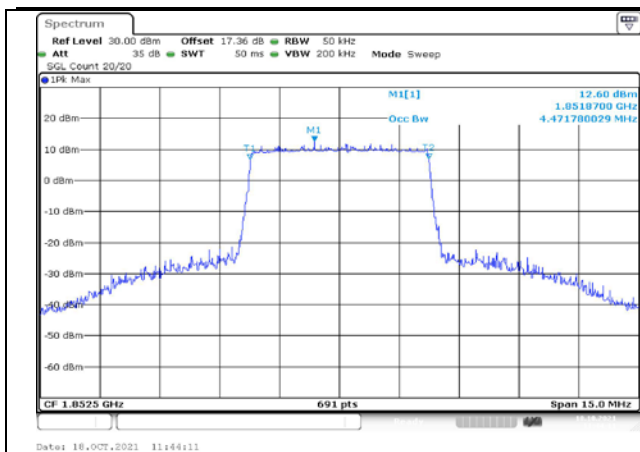


Fig.13

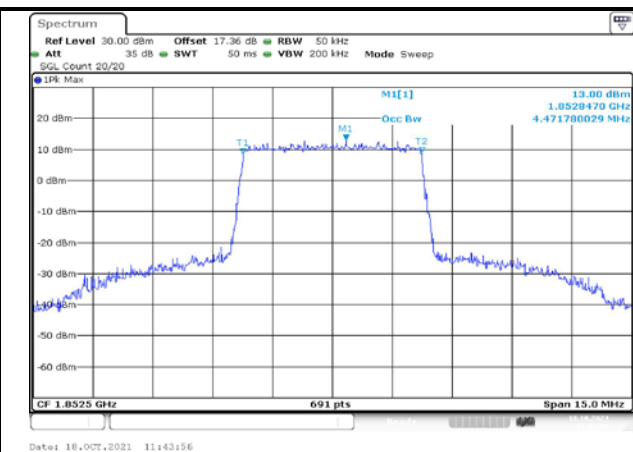


Fig.14

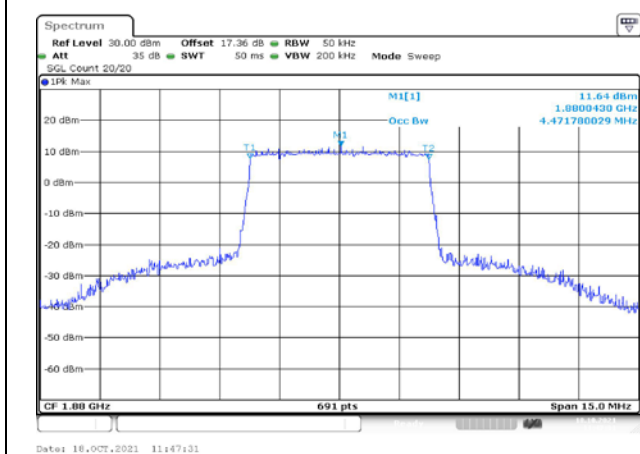


Fig.15

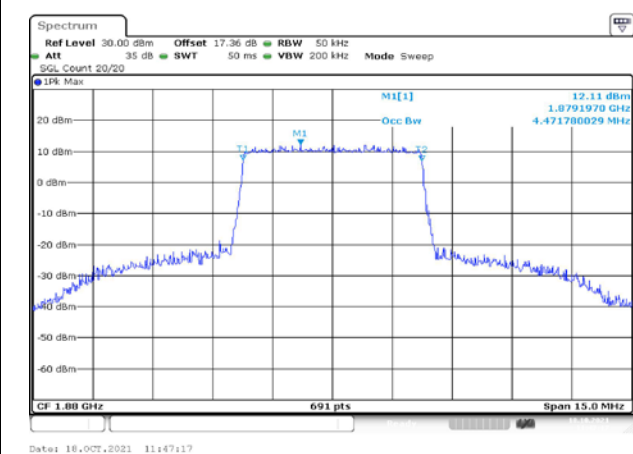


Fig.16

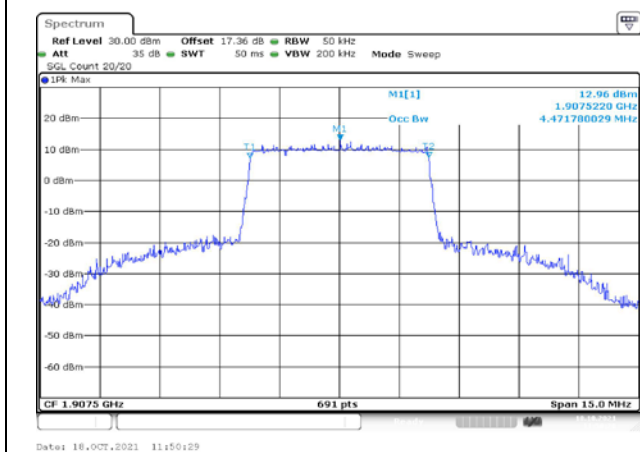


Fig.17

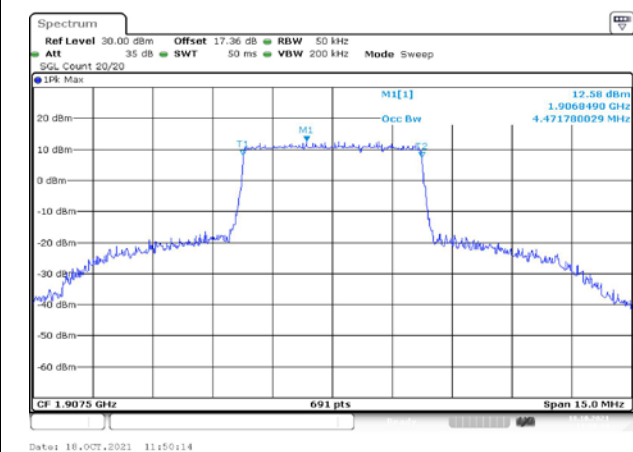


Fig.18

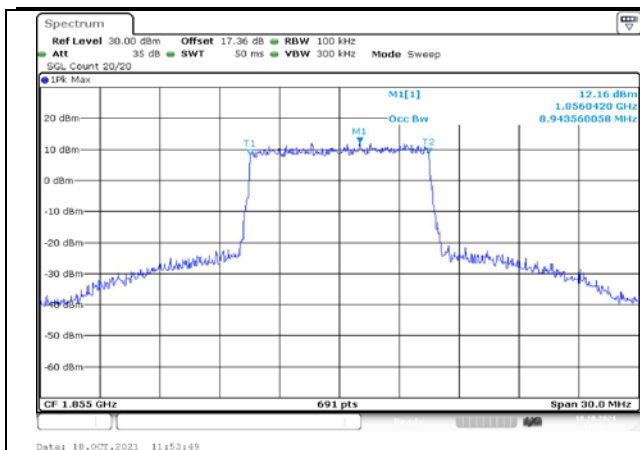


Fig.19

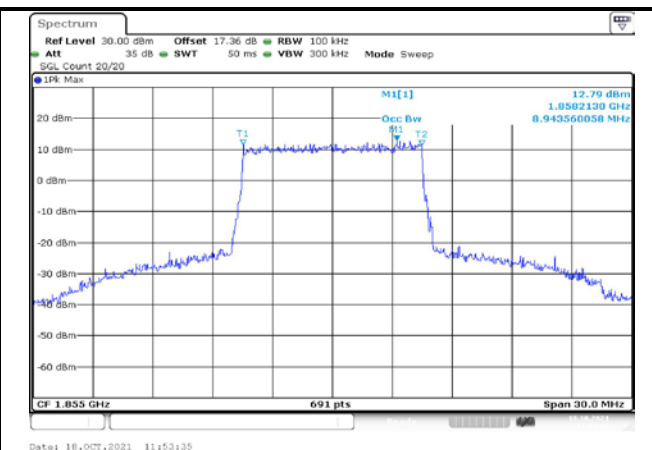


Fig.20

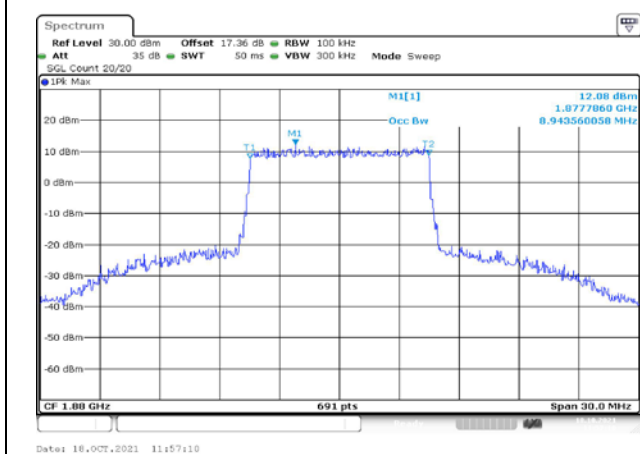


Fig.21

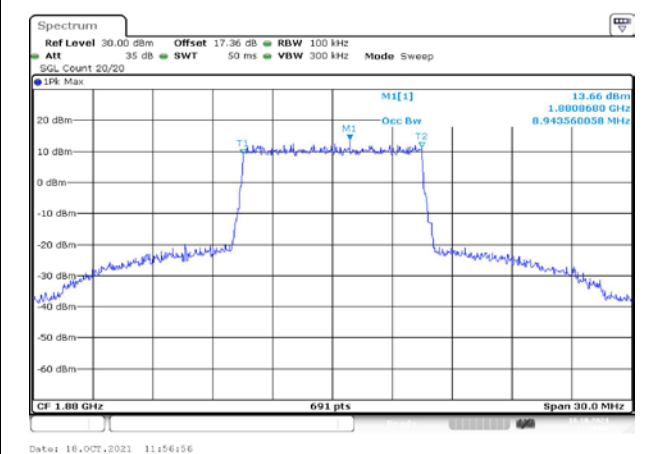


Fig.22

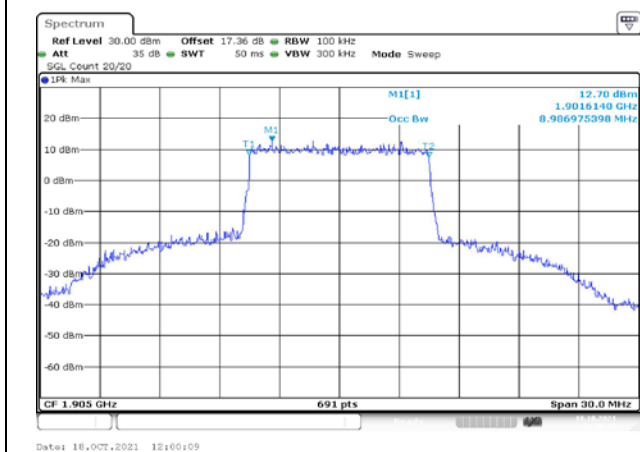


Fig.23

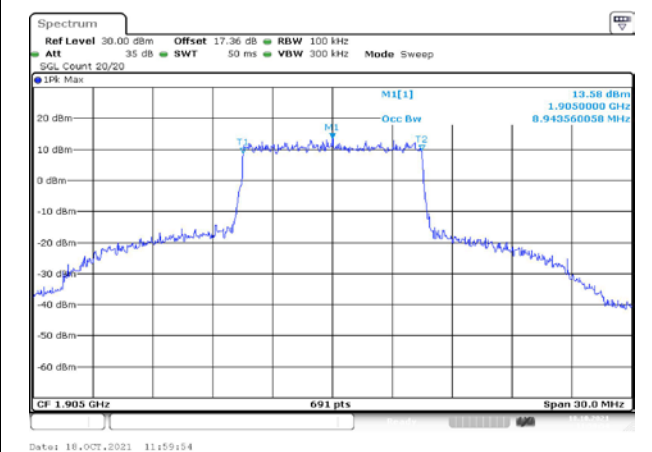
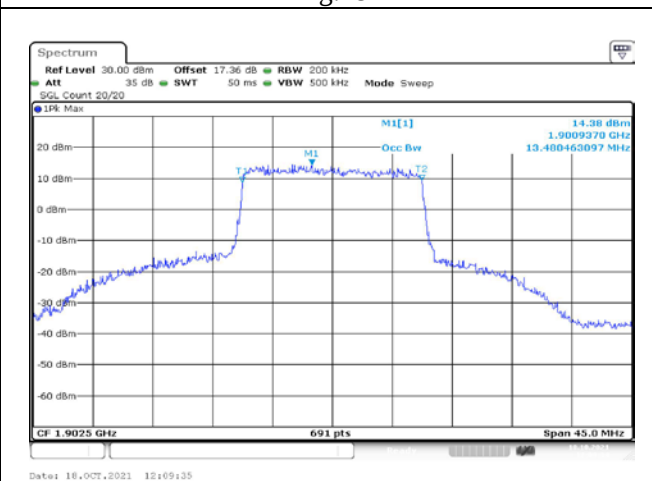
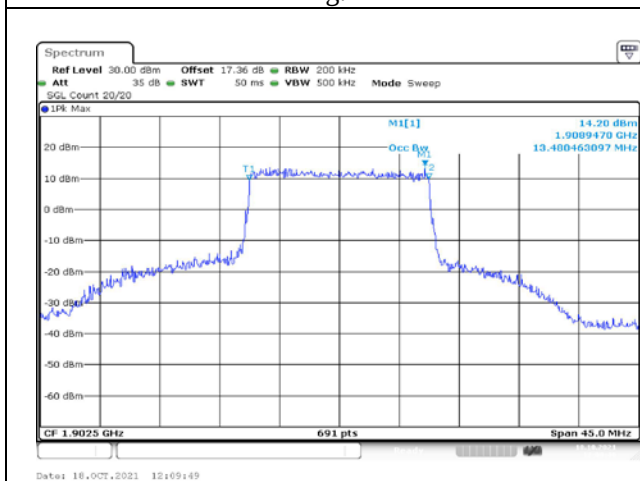
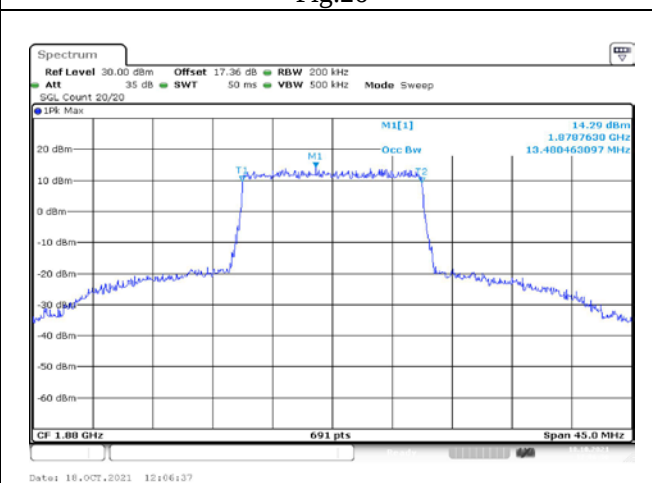
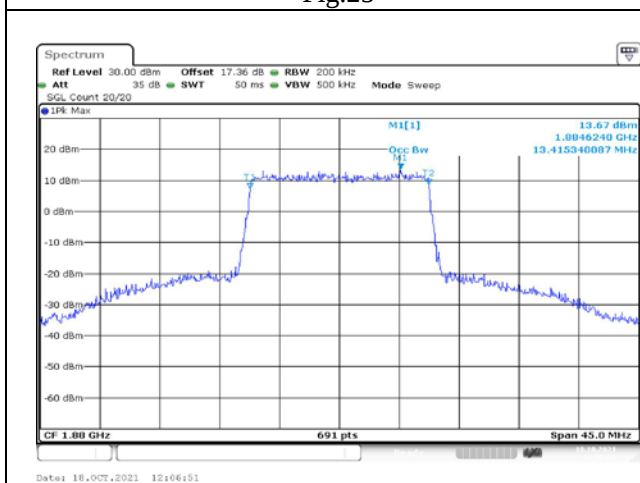
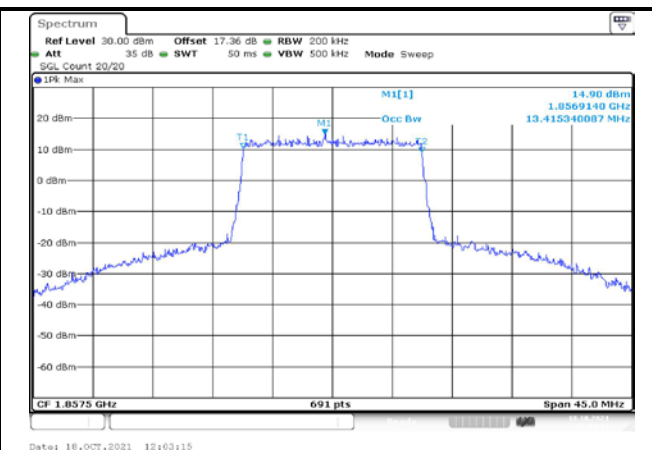
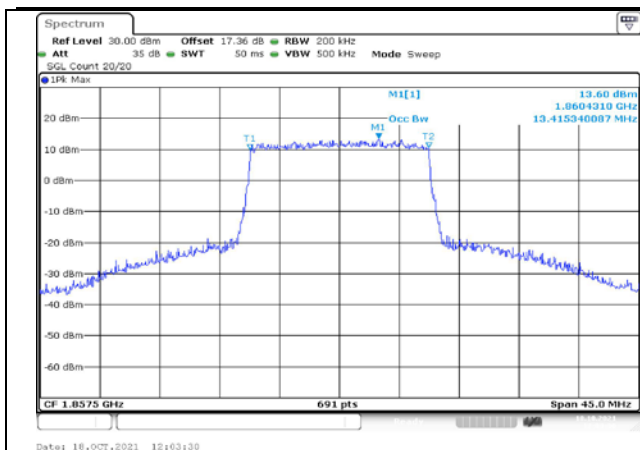
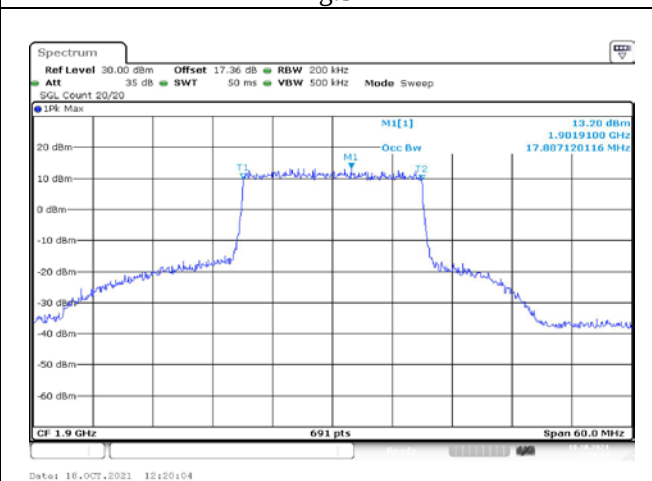
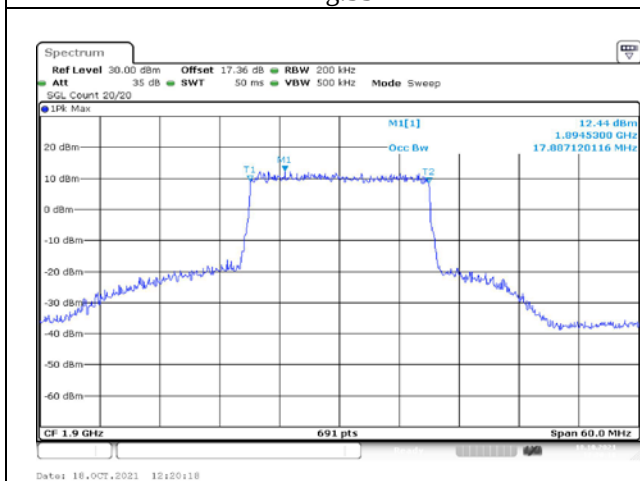
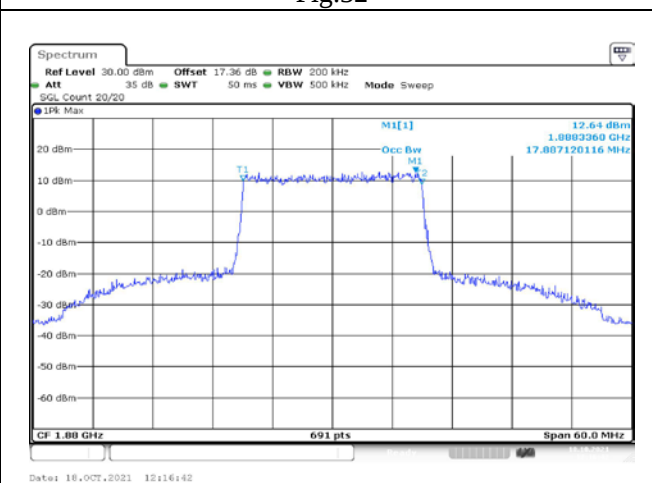
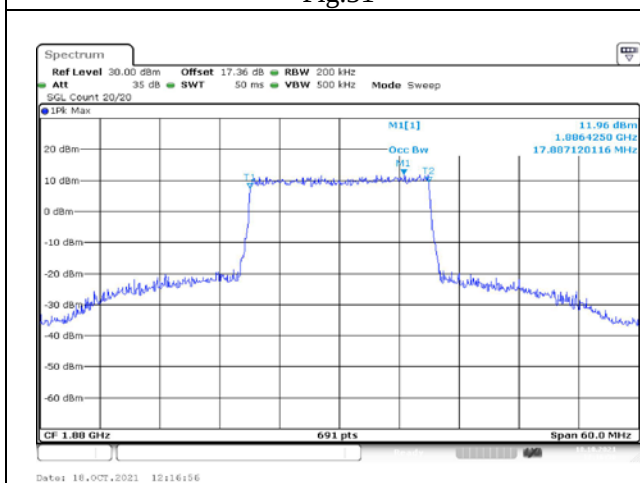
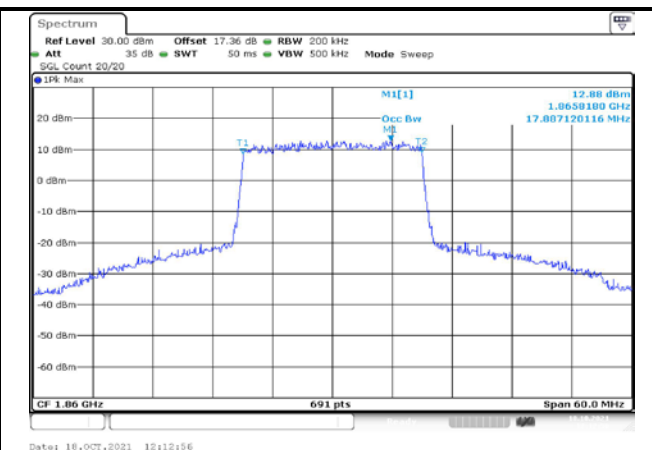
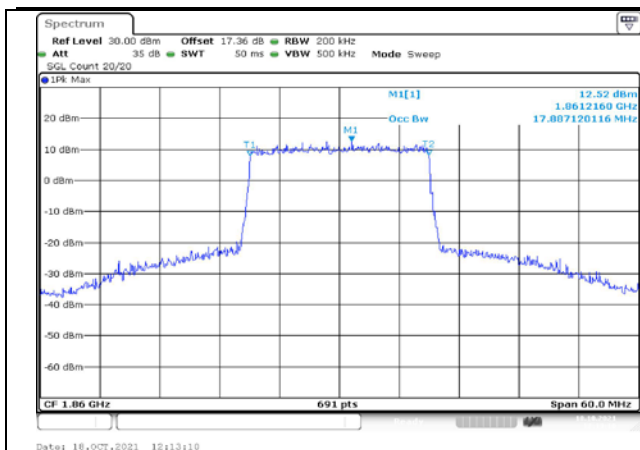


Fig.24





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	
2	1850.7	18607	1.4	6	0	1.228	Fig.1	1.228	Fig.2	---	---
	1880	18900		6	0	1.234	Fig.3	1.222	Fig.4	---	---
	1909.3	19193		6	0	1.240	Fig.5	1.240	Fig.6	---	---
	1851.5	18615	3	15	0	2.983	Fig.7	2.983	Fig.8	---	---
	1880	18900		15	0	2.957	Fig.9	2.983	Fig.10	---	---
	1908.5	19185		15	0	2.970	Fig.11	2.996	Fig.12	---	---
	1852.5	18625	5	25	0	4.928	Fig.13	4.884	Fig.14	---	---
	1880	18900		25	0	4.884	Fig.15	4.863	Fig.16	---	---
	1907.5	19175		25	0	4.863	Fig.17	4.884	Fig.18	---	---
	1855	18650	10	50	0	9.768	Fig.19	9.551	Fig.20	---	---
	1880	18900		50	0	9.812	Fig.21	9.595	Fig.22	---	---
	1905	19150		50	0	9.768	Fig.23	9.725	Fig.24	---	---
	1857.5	18675	15	75	0	14.783	Fig.25	14.783	Fig.26	---	---
	1880	18900		75	0	14.718	Fig.27	14.718	Fig.28	---	---
	1902.5	19125		75	0	14.653	Fig.29	14.653	Fig.30	---	---
	1860	18700	20	100	0	19.363	Fig.31	19.450	Fig.32	---	---
	1880	18900		100	0	19.537	Fig.33	19.450	Fig.34	---	---
	1900	19100		100	0	19.363	Fig.35	19.450	Fig.36	---	---

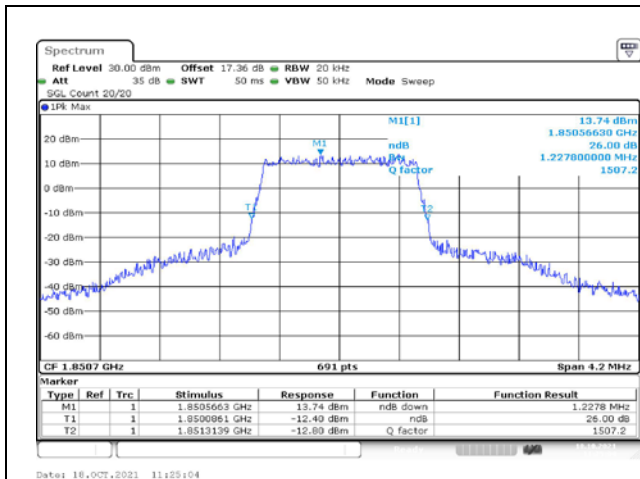


Fig.1

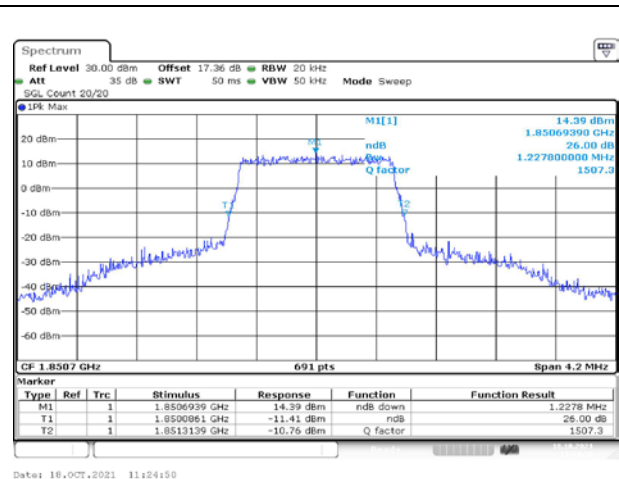


Fig.2

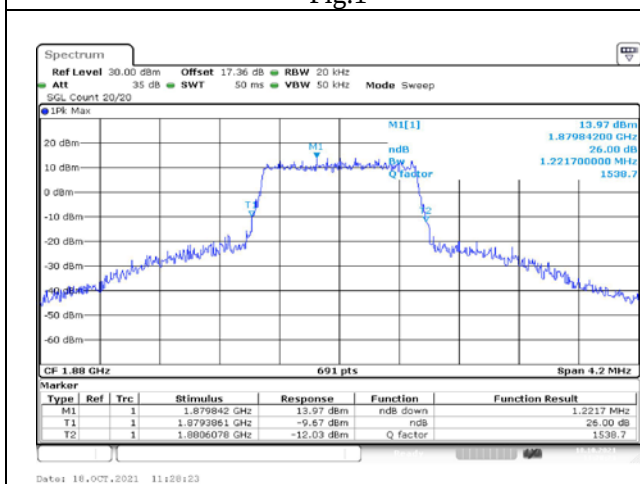


Fig.3

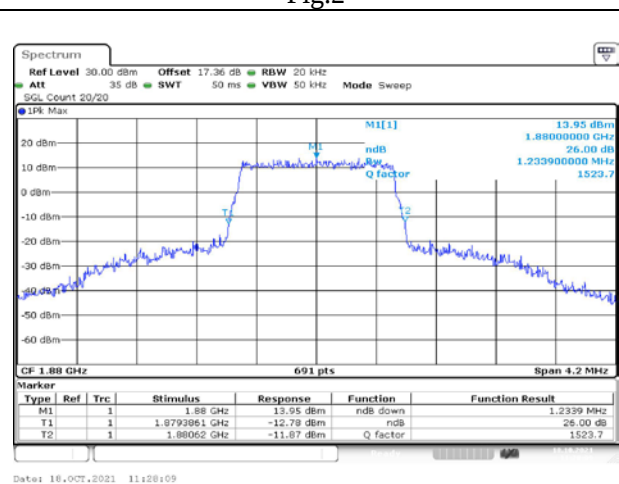


Fig.4

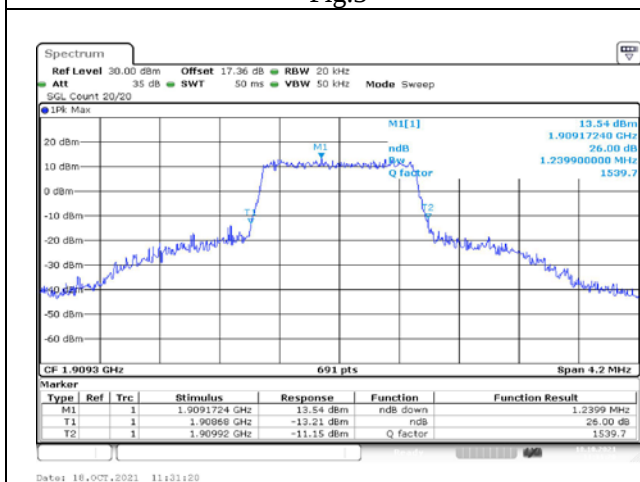


Fig.5

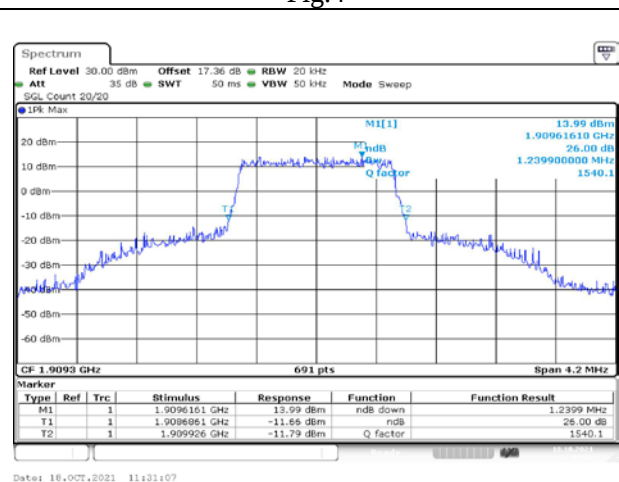


Fig.6

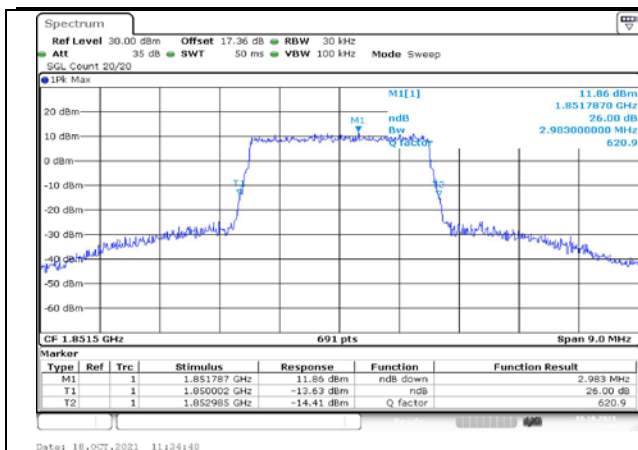


Fig.7

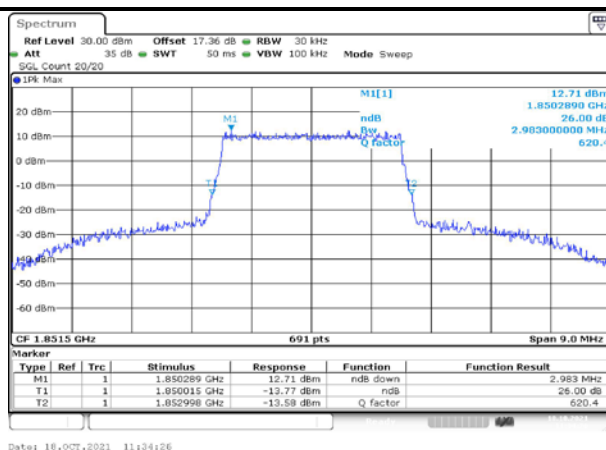


Fig.8

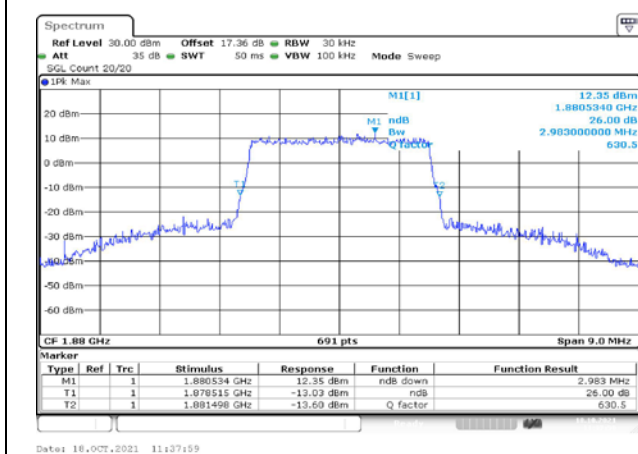


Fig.9

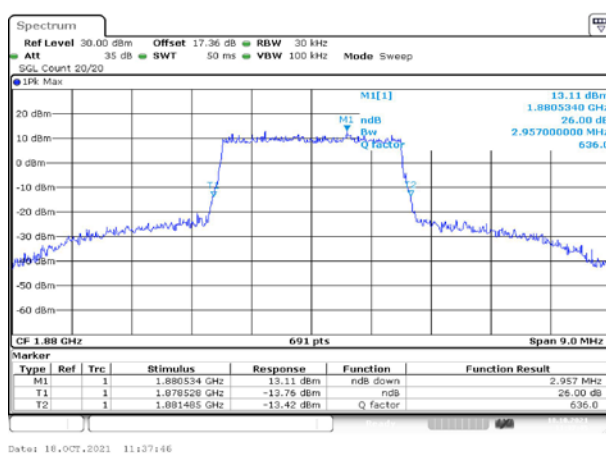


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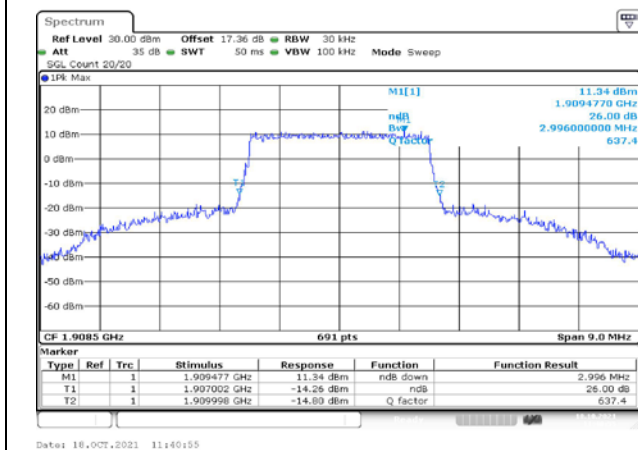


Fig.11

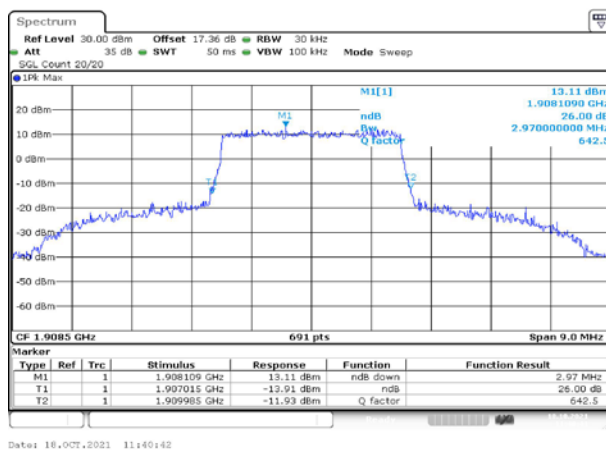


Fig.12

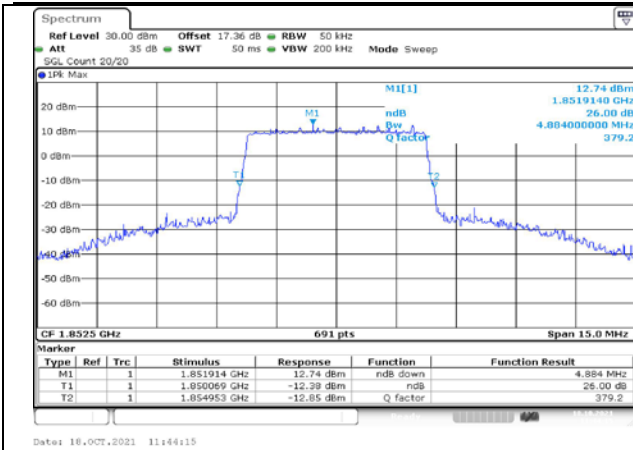


Fig.13

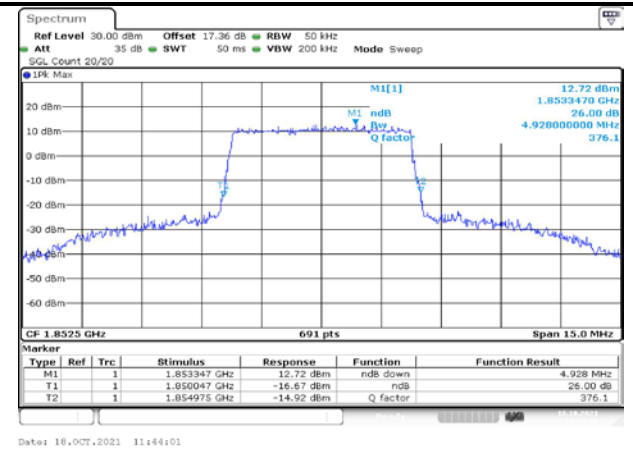


Fig.14

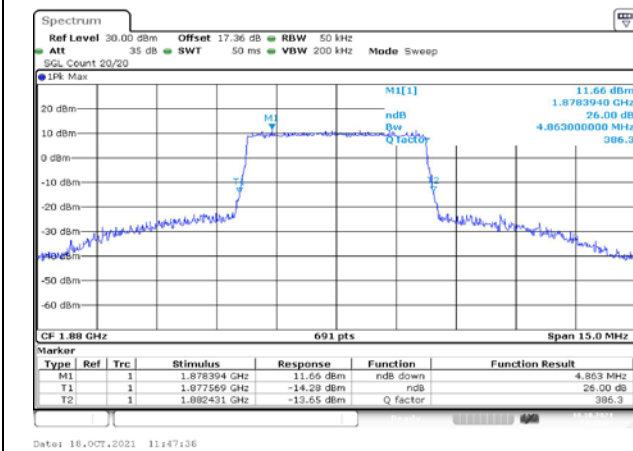


Fig.15

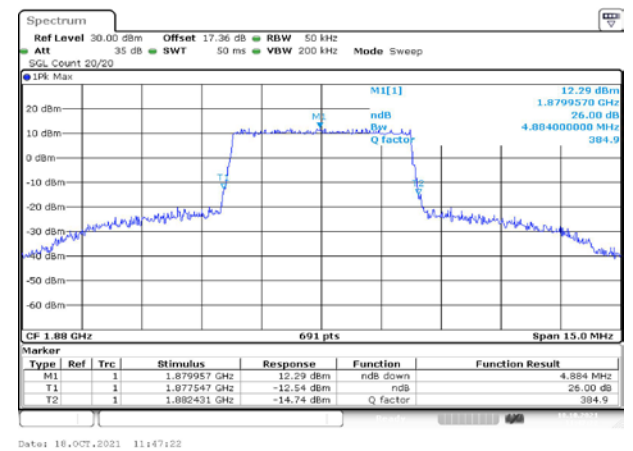


Fig.16

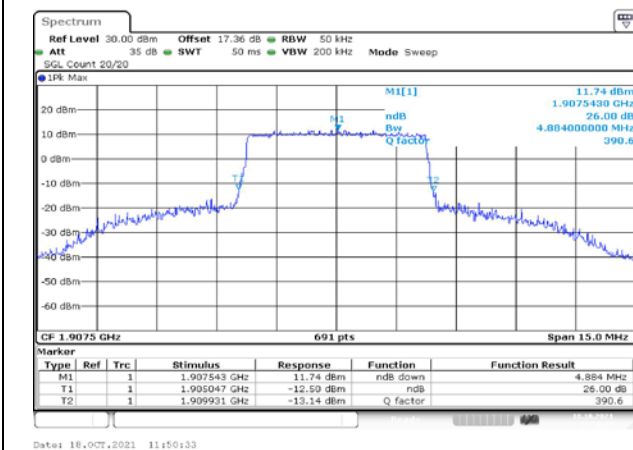


Fig.17

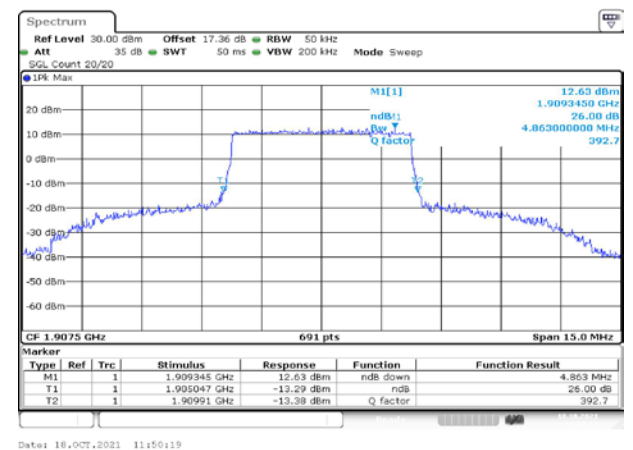


Fig.18

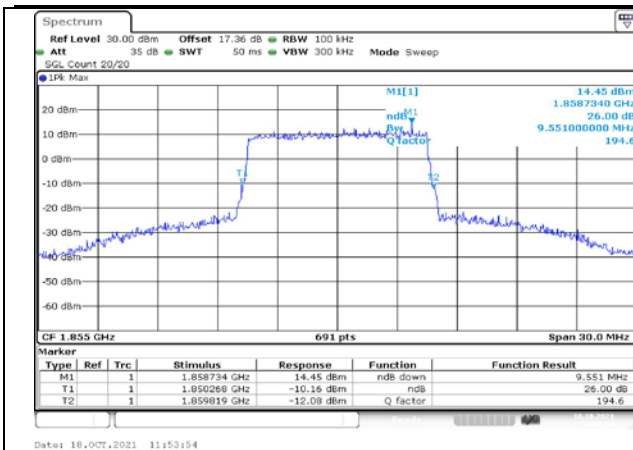


Fig.19

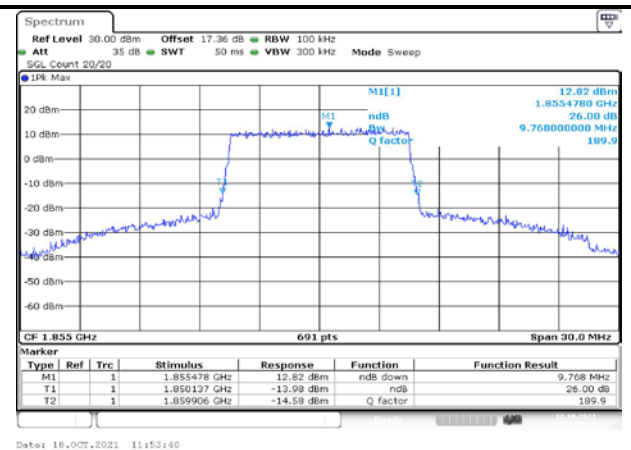


Fig.20

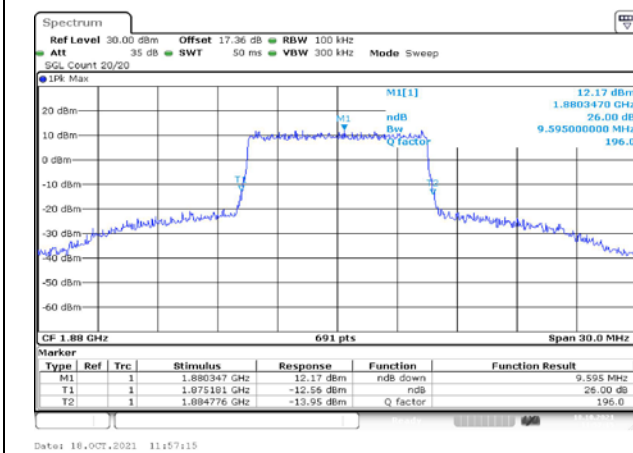


Fig.21

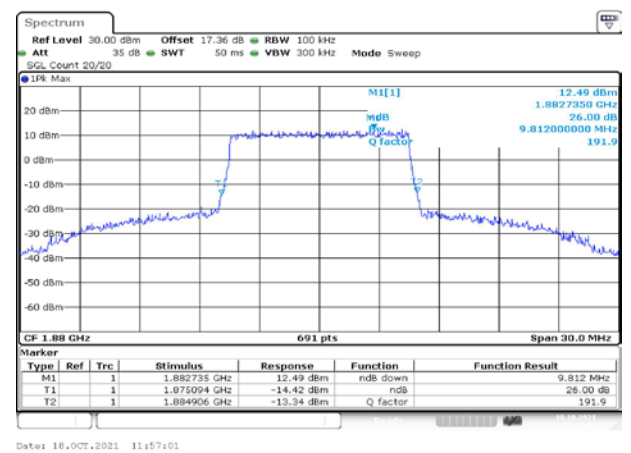


Fig.22

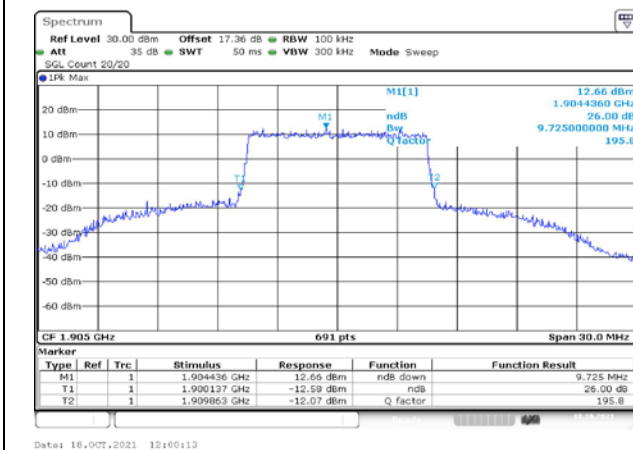


Fig.23

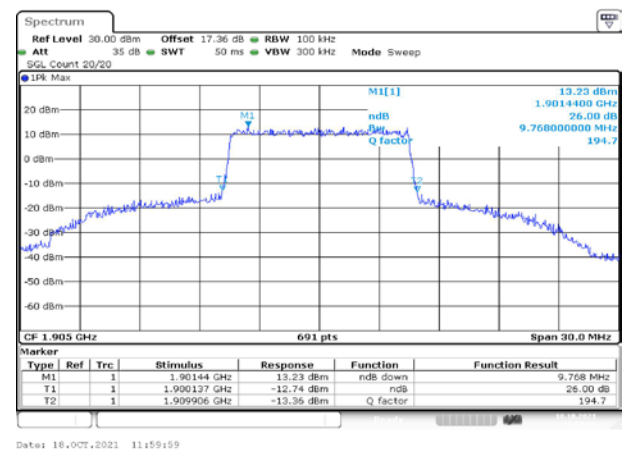


Fig.24

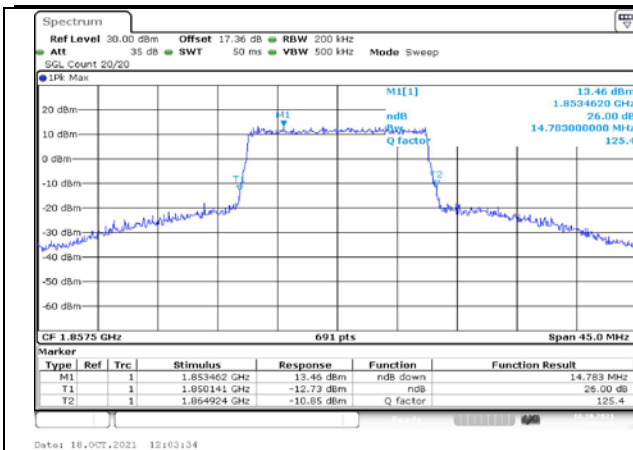


Fig.25

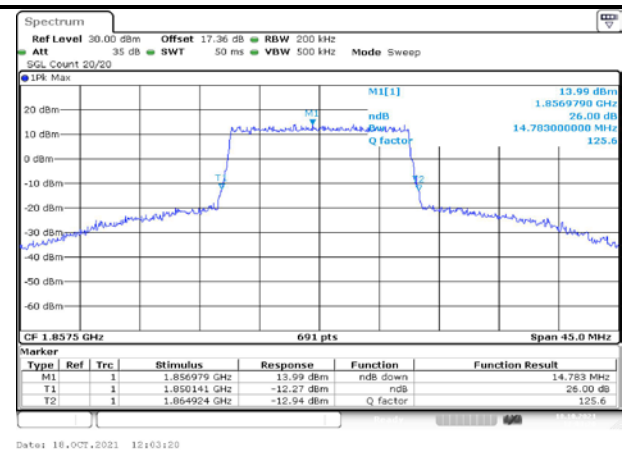


Fig.26

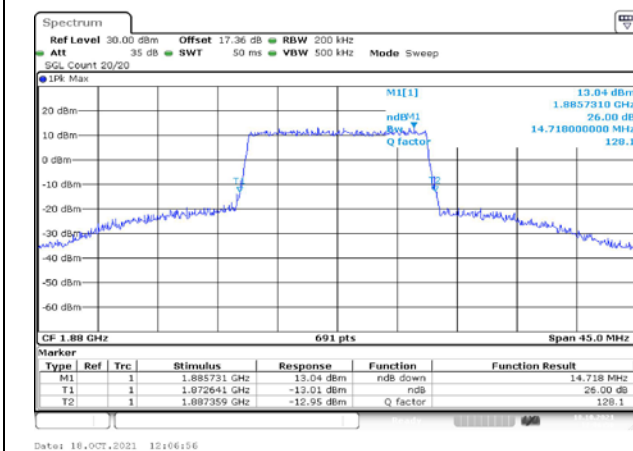


Fig.27

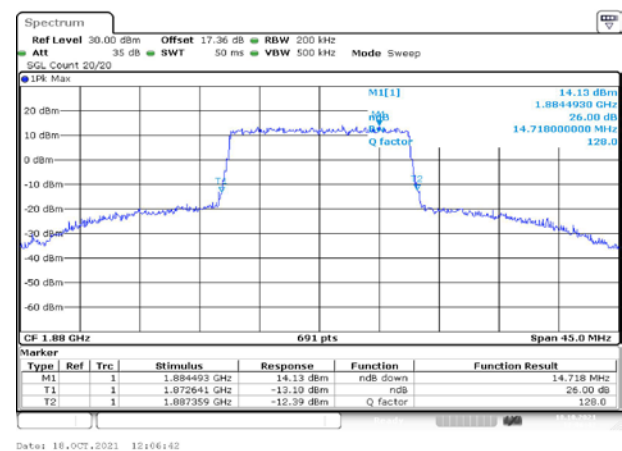


Fig.28

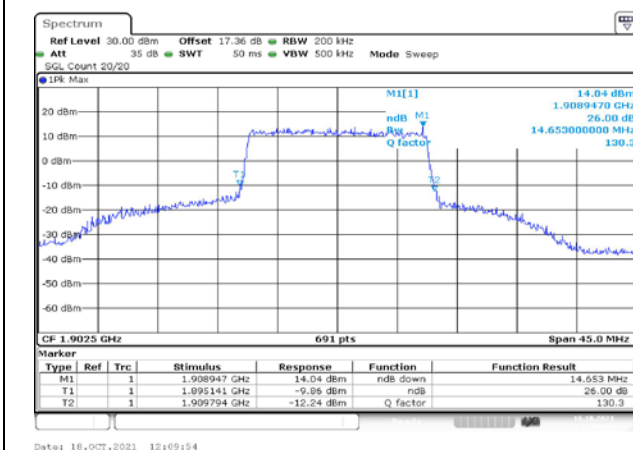


Fig.29

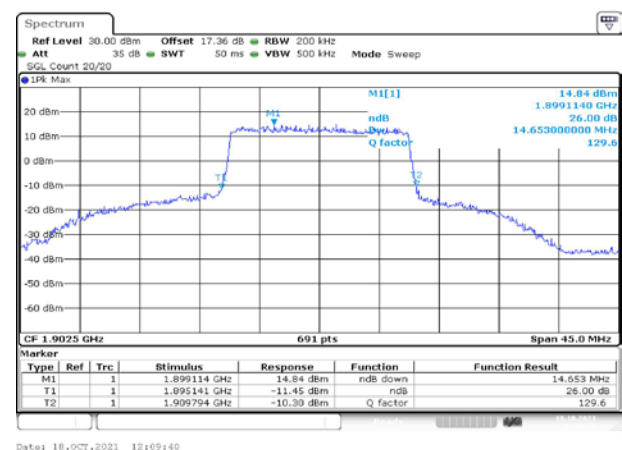


Fig.30

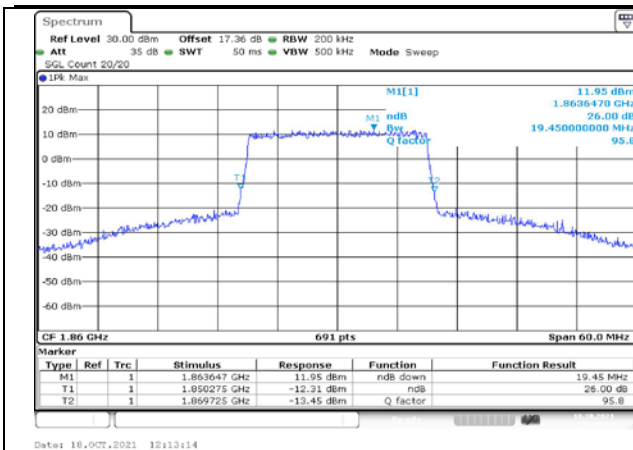


Fig.31

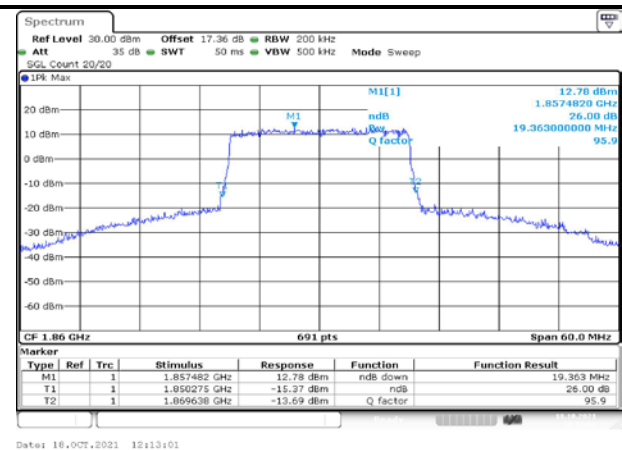


Fig.32

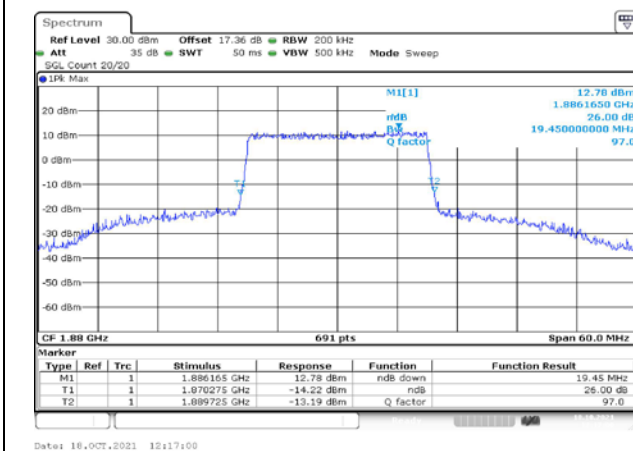


Fig.33

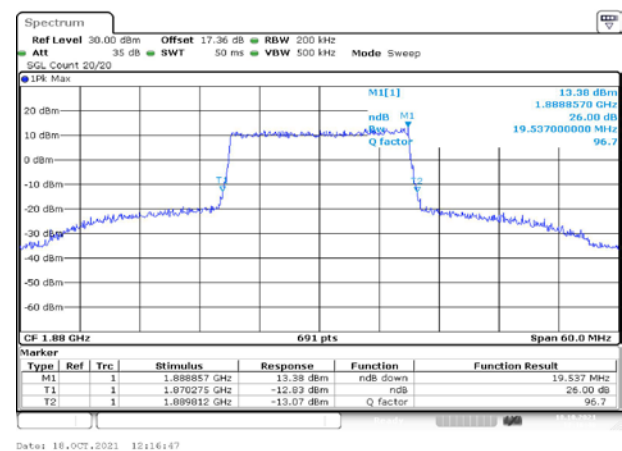


Fig.34

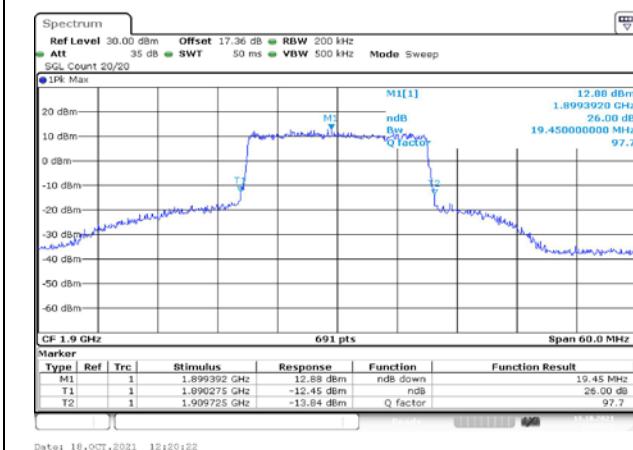


Fig.35

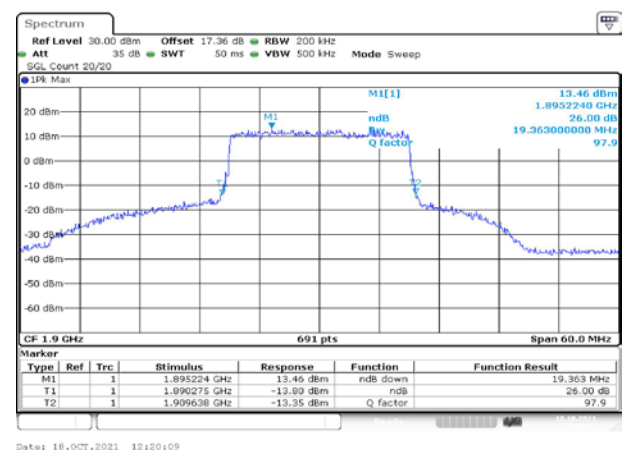


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
2	1850.7	18607	1.4	1	5	Fig.1	Fig.2	Fig.3
	1850.7	18607		6	0	Fig.4	Fig.5	Fig.6
	1880	18900		1	5	Fig.7	Fig.8	---
	1880	18900		6	0	Fig.9	Fig.10	---
	1909.3	19193		1	5	Fig.11	Fig.12	---
	1909.3	19193		6	0	Fig.13	Fig.14	---
	1851.5	18615	3	1	14	Fig.15	Fig.16	---
	1851.5	18615		15	0	Fig.17	Fig.18	---
	1880	18900		1	14	Fig.19	Fig.20	---
	1880	18900		15	0	Fig.21	Fig.22	---
	1908.5	19185		1	14	Fig.23	Fig.24	---
	1908.5	19185		15	0	Fig.25	Fig.26	---
	1852.5	18625	5	1	24	Fig.27	Fig.28	---
	1852.5	18625		25	0	Fig.29	Fig.30	---
	1880	18900		1	24	Fig.31	Fig.32	---
	1880	18900		25	0	Fig.33	Fig.34	---
	1907.5	19175		1	24	Fig.35	Fig.36	---
	1907.5	19175		25	0	Fig.37	Fig.38	---
	1855	18650	10	1	49	Fig.39	Fig.40	---
	1855	18650		50	0	Fig.41	Fig.42	---
	1880	18900		1	49	Fig.43	Fig.44	---
	1880	18900		50	0	Fig.45	Fig.46	---
	1905	19150		1	49	Fig.47	Fig.48	---
	1905	19150		50	0	Fig.49	Fig.50	---
	1857.5	18675	15	1	74	Fig.51	Fig.52	---
	1857.5	18675		75	0	Fig.53	Fig.54	---
	1880	18900		1	74	Fig.55	Fig.56	---
	1880	18900		75	0	Fig.57	Fig.58	---
	1902.5	19125		1	74	Fig.59	Fig.60	---
	1902.5	19125		75	0	Fig.61	Fig.62	---
	1860	18700	20	1	99	Fig.63	Fig.64	---
	1860	18700		100	0	Fig.65	Fig.66	---
	1880	18900		1	99	Fig.67	Fig.68	---
	1880	18900		100	0	Fig.69	Fig.70	---
	1900	19100		1	99	Fig.71	Fig.72	---
	1900	19100		100	0	Fig.73	Fig.74	---

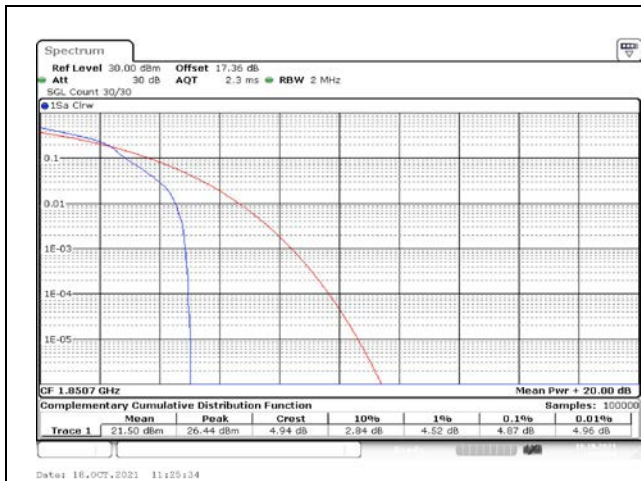


Fig.1

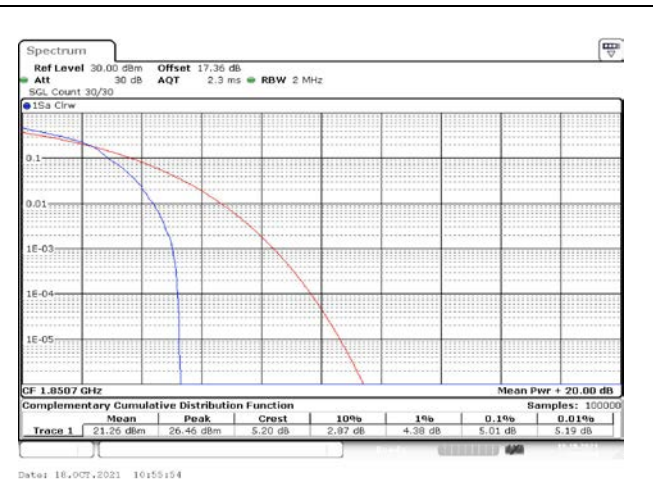


Fig.2

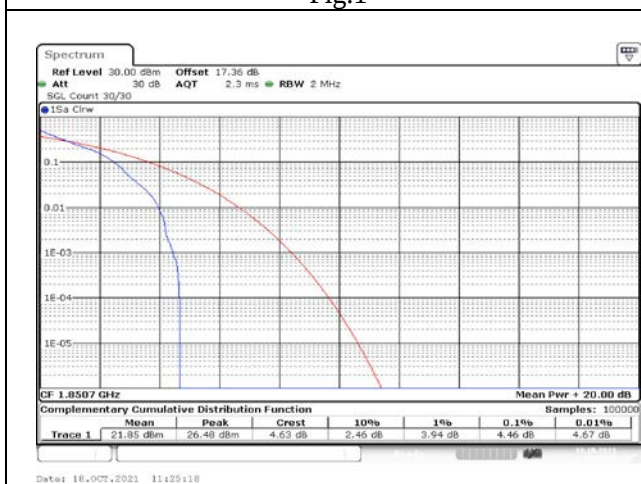


Fig.3

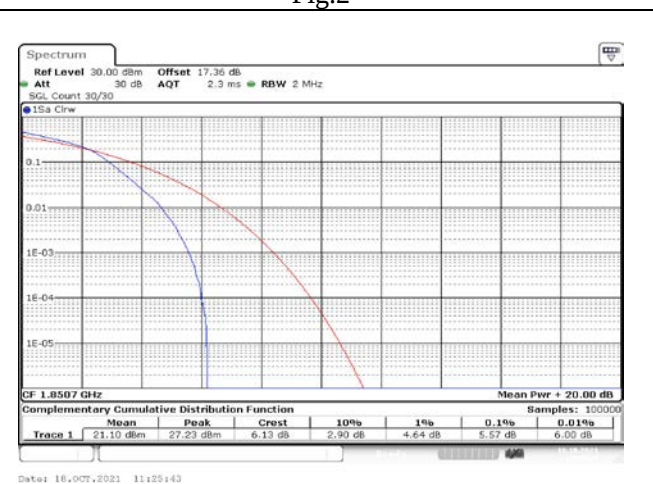


Fig.4

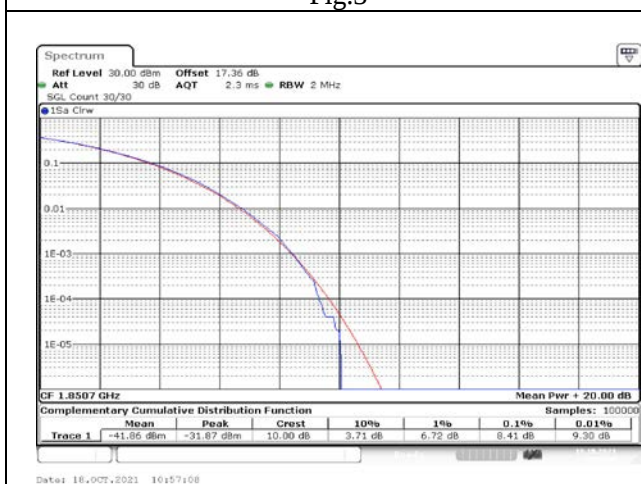


Fig.5

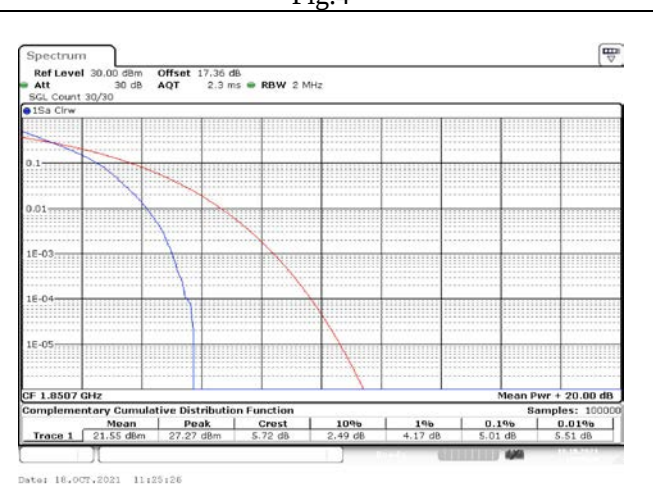


Fig.6

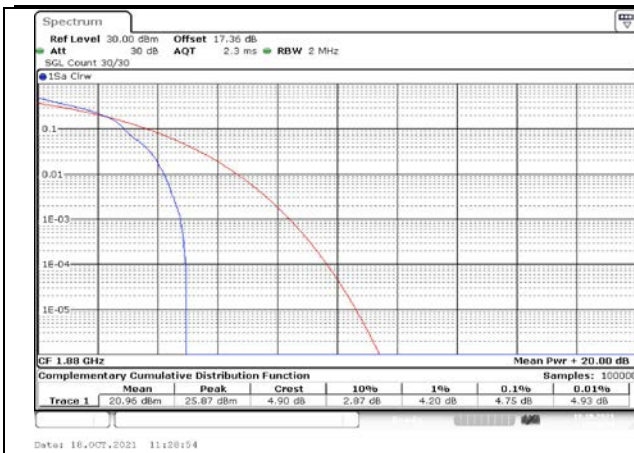


Fig.7

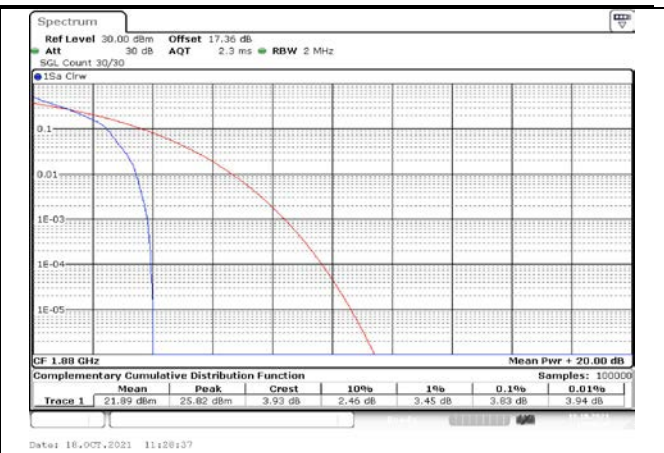


Fig.8

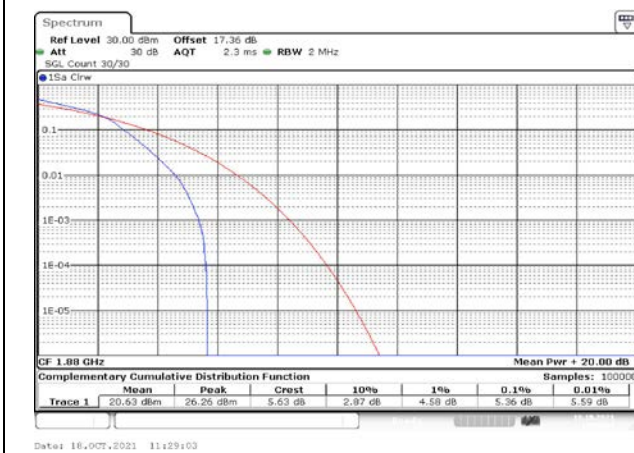


Fig.9

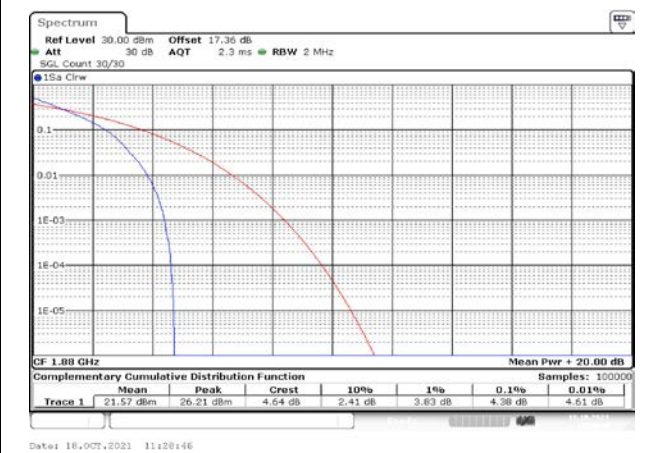


Fig.10

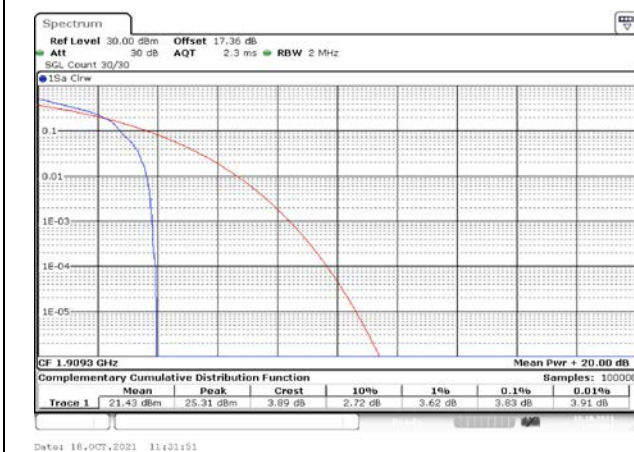


Fig.11

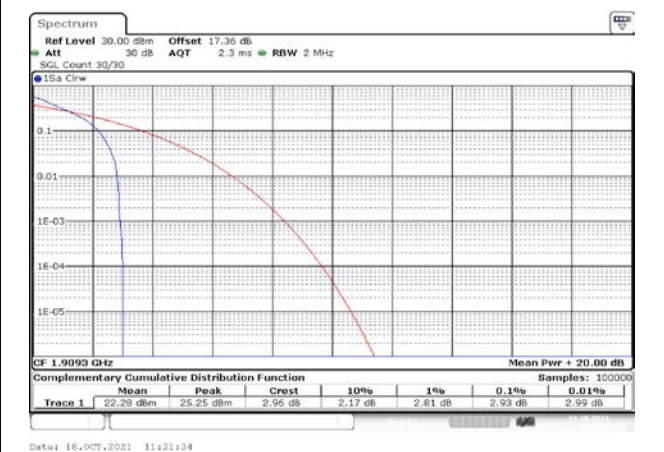


Fig.12

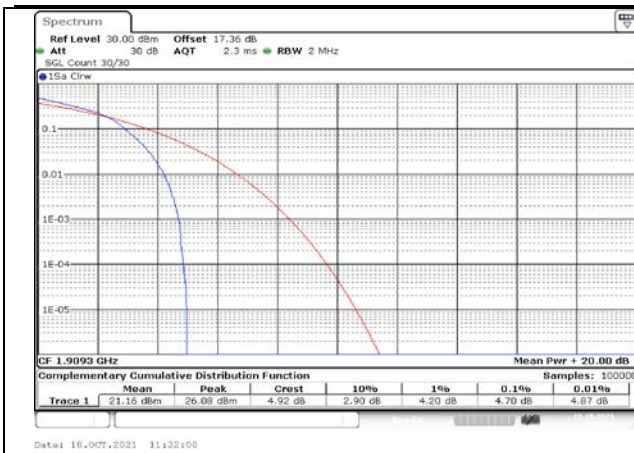


Fig.13

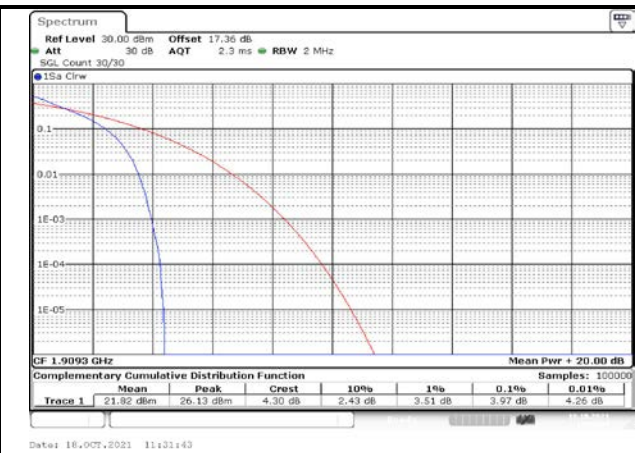


Fig.14

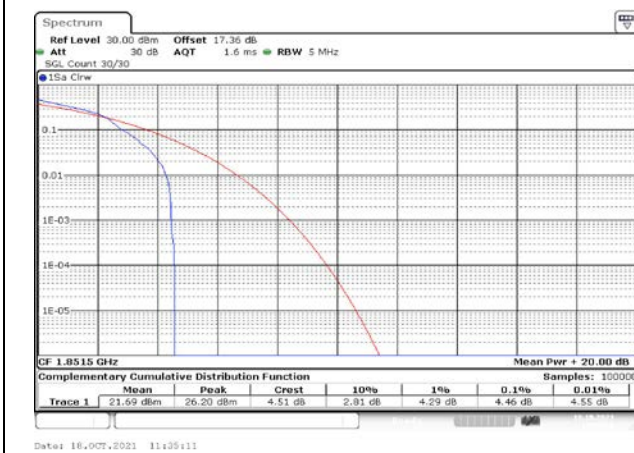


Fig.15

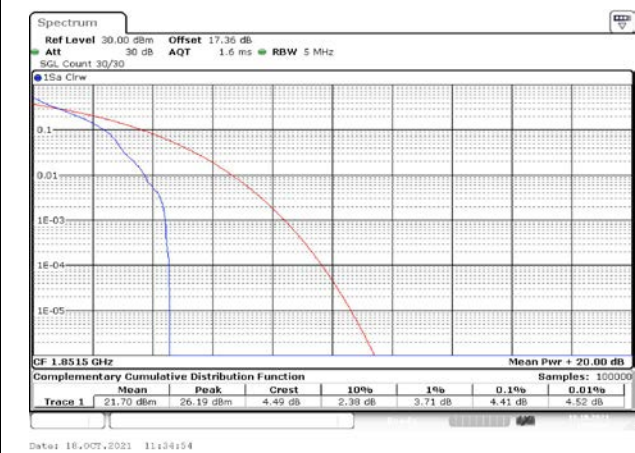


Fig.16

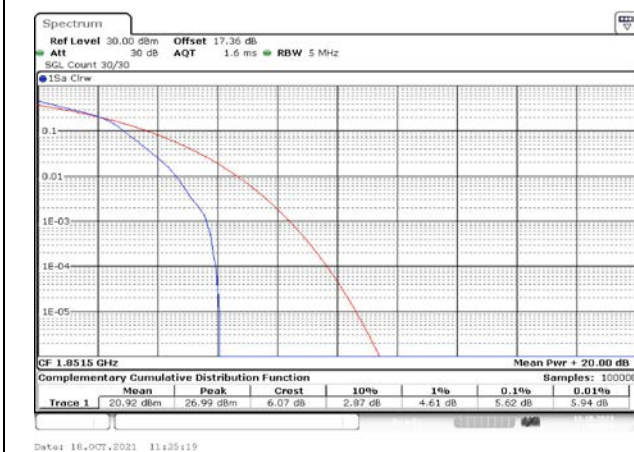


Fig.17

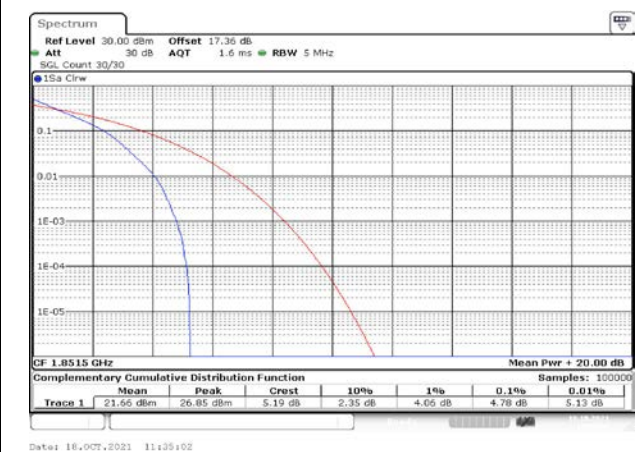


Fig.18