

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 19

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	832.5	24025	5	1	0	23.50
QPSK	832.5	24025	5	1	12	23.10
QPSK	832.5	24025	5	1	24	23.05
QPSK	832.5	24025	5	12	0	22.08
QPSK	832.5	24025	5	12	7	22.06
QPSK	832.5	24025	5	12	13	22.04
QPSK	832.5	24025	5	25	0	22.04
QPSK	837.5	24075	5	1	0	23.44
QPSK	837.5	24075	5	1	12	23.01
QPSK	837.5	24075	5	1	24	23.02
QPSK	837.5	24075	5	12	0	22.09
QPSK	837.5	24075	5	12	7	22.06
QPSK	837.5	24075	5	12	13	21.98
QPSK	837.5	24075	5	25	0	22.04
QPSK	842.5	24125	5	1	0	23.25
QPSK	842.5	24125	5	1	12	22.62
QPSK	842.5	24125	5	1	24	22.16
QPSK	842.5	24125	5	12	0	21.75
QPSK	842.5	24125	5	12	7	21.55
QPSK	842.5	24125	5	12	13	21.25
QPSK	842.5	24125	5	25	0	21.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	832.5	24025	5	1	0	22.37
16QAM	832.5	24025	5	1	12	22.27
16QAM	832.5	24025	5	1	24	22.47
16QAM	832.5	24025	5	12	0	21.10
16QAM	832.5	24025	5	12	7	21.05
16QAM	832.5	24025	5	12	13	21.03
16QAM	832.5	24025	5	25	0	21.11
16QAM	837.5	24075	5	1	0	22.43
16QAM	837.5	24075	5	1	12	22.59
16QAM	837.5	24075	5	1	24	21.96
16QAM	837.5	24075	5	12	0	21.10
16QAM	837.5	24075	5	12	7	21.06
16QAM	837.5	24075	5	12	13	21.00
16QAM	837.5	24075	5	25	0	21.02
16QAM	842.5	24125	5	1	0	22.16
16QAM	842.5	24125	5	1	12	22.05
16QAM	842.5	24125	5	1	24	21.43
16QAM	842.5	24125	5	12	0	20.76
16QAM	842.5	24125	5	12	7	20.48
16QAM	842.5	24125	5	12	13	20.26
16QAM	842.5	24125	5	25	0	20.58
64QAM	832.5	24025	5	1	0	22.49
64QAM	832.5	24025	5	1	12	21.57
64QAM	832.5	24025	5	1	24	21.96
64QAM	832.5	24025	5	12	0	21.11
64QAM	832.5	24025	5	12	7	21.13
64QAM	832.5	24025	5	12	13	21.15
64QAM	832.5	24025	5	25	0	21.07
64QAM	837.5	24075	5	1	0	22.09
64QAM	837.5	24075	5	1	12	22.23
64QAM	837.5	24075	5	1	24	22.10
64QAM	837.5	24075	5	12	0	20.92
64QAM	837.5	24075	5	12	7	21.09
64QAM	837.5	24075	5	12	13	21.00
64QAM	837.5	24075	5	25	0	20.97
64QAM	842.5	24125	5	1	0	22.05
64QAM	842.5	24125	5	1	12	21.70
64QAM	842.5	24125	5	1	24	21.33
64QAM	842.5	24125	5	12	0	20.78
64QAM	842.5	24125	5	12	7	20.51
64QAM	842.5	24125	5	12	13	20.25
64QAM	842.5	24125	5	25	0	20.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	835	24050	10	1	0	22.87
QPSK	835	24050	10	1	25	22.97
QPSK	835	24050	10	1	49	22.77
QPSK	835	24050	10	25	0	21.91
QPSK	835	24050	10	25	12	21.92
QPSK	835	24050	10	25	25	21.85
QPSK	835	24050	10	50	0	21.87
QPSK	837.5	24075	10	1	0	22.86
QPSK	837.5	24075	10	1	25	22.73
QPSK	837.5	24075	10	1	49	22.49
QPSK	837.5	24075	10	25	0	21.91
QPSK	837.5	24075	10	25	12	21.89
QPSK	837.5	24075	10	25	25	21.70
QPSK	837.5	24075	10	50	0	21.81
QPSK	840	24100	10	1	0	22.87
QPSK	840	24100	10	1	25	22.74
QPSK	840	24100	10	1	49	21.97
QPSK	840	24100	10	25	0	21.87
QPSK	840	24100	10	25	12	21.75
QPSK	840	24100	10	25	25	21.39
QPSK	840	24100	10	50	0	21.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	835	24050	10	1	0	22.03
16QAM	835	24050	10	1	25	22.29
16QAM	835	24050	10	1	49	22.11
16QAM	835	24050	10	25	0	21.02
16QAM	835	24050	10	25	12	20.97
16QAM	835	24050	10	25	25	20.86
16QAM	835	24050	10	50	0	20.94
16QAM	837.5	24075	10	1	0	22.19
16QAM	837.5	24075	10	1	25	22.33
16QAM	837.5	24075	10	1	49	21.59
16QAM	837.5	24075	10	25	0	20.87
16QAM	837.5	24075	10	25	12	20.90
16QAM	837.5	24075	10	25	25	20.72
16QAM	837.5	24075	10	50	0	20.87
16QAM	840	24100	10	1	0	22.02
16QAM	840	24100	10	1	25	21.94
16QAM	840	24100	10	1	49	21.02
16QAM	840	24100	10	25	0	20.89
16QAM	840	24100	10	25	12	20.88
16QAM	840	24100	10	25	25	20.43
16QAM	840	24100	10	50	0	20.75
64QAM	835	24050	10	1	0	22.24
64QAM	835	24050	10	1	25	22.02
64QAM	835	24050	10	1	49	21.84
64QAM	835	24050	10	25	0	20.96
64QAM	835	24050	10	25	12	20.92
64QAM	835	24050	10	25	25	20.97
64QAM	835	24050	10	50	0	20.87
64QAM	837.5	24075	10	1	0	22.03
64QAM	837.5	24075	10	1	25	21.99
64QAM	837.5	24075	10	1	49	21.66
64QAM	837.5	24075	10	25	0	20.92
64QAM	837.5	24075	10	25	12	20.99
64QAM	837.5	24075	10	25	25	20.75
64QAM	837.5	24075	10	50	0	20.87
64QAM	840	24100	10	1	0	22.01
64QAM	840	24100	10	1	25	22.04
64QAM	840	24100	10	1	49	21.06
64QAM	840	24100	10	25	0	20.93
64QAM	840	24100	10	25	12	20.82
64QAM	840	24100	10	25	25	20.48
64QAM	840	24100	10	50	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	837.5	24075	15	1	0	22.87
QPSK	837.5	24075	15	1	37	22.89
QPSK	837.5	24075	15	1	74	22.00
QPSK	837.5	24075	15	36	0	21.88
QPSK	837.5	24075	15	36	29	21.69
QPSK	837.5	24075	15	36	30	21.68
QPSK	837.5	24075	15	75	0	21.71
QPSK	837.5	24075	15	1	0	22.80
QPSK	837.5	24075	15	1	37	22.67
QPSK	837.5	24075	15	1	74	21.96
QPSK	837.5	24075	15	36	0	21.85
QPSK	837.5	24075	15	36	29	21.67
QPSK	837.5	24075	15	36	30	21.64
QPSK	837.5	24075	15	75	0	21.70
QPSK	837.5	24075	15	1	0	22.87
QPSK	837.5	24075	15	1	37	22.69
QPSK	837.5	24075	15	1	74	21.89
QPSK	837.5	24075	15	36	0	21.85
QPSK	837.5	24075	15	36	29	21.65
QPSK	837.5	24075	15	36	30	21.64
QPSK	837.5	24075	15	75	0	21.68

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	837.5	24075	15	1	0	21.66
16QAM	837.5	24075	15	1	37	22.01
16QAM	837.5	24075	15	1	74	21.57
16QAM	837.5	24075	15	36	0	20.88
16QAM	837.5	24075	15	36	29	20.72
16QAM	837.5	24075	15	36	30	20.72
16QAM	837.5	24075	15	75	0	20.77
16QAM	837.5	24075	15	1	0	22.27
16QAM	837.5	24075	15	1	37	22.05
16QAM	837.5	24075	15	1	74	21.29
16QAM	837.5	24075	15	36	0	20.91
16QAM	837.5	24075	15	36	29	20.75
16QAM	837.5	24075	15	36	30	20.65
16QAM	837.5	24075	15	75	0	20.73
16QAM	837.5	24075	15	1	0	22.00
16QAM	837.5	24075	15	1	37	22.26
16QAM	837.5	24075	15	1	74	21.66
16QAM	837.5	24075	15	36	0	20.86
16QAM	837.5	24075	15	36	29	20.71
16QAM	837.5	24075	15	36	30	20.75
16QAM	837.5	24075	15	75	0	20.71
64QAM	837.5	24075	15	1	0	21.82
64QAM	837.5	24075	15	1	37	22.04
64QAM	837.5	24075	15	1	74	21.25
64QAM	837.5	24075	15	36	0	20.90
64QAM	837.5	24075	15	36	29	20.70
64QAM	837.5	24075	15	36	30	20.71
64QAM	837.5	24075	15	75	0	20.77
64QAM	837.5	24075	15	1	0	21.92
64QAM	837.5	24075	15	1	37	21.79
64QAM	837.5	24075	15	1	74	21.02
64QAM	837.5	24075	15	36	0	20.82
64QAM	837.5	24075	15	36	29	20.74
64QAM	837.5	24075	15	36	30	20.62
64QAM	837.5	24075	15	75	0	20.75
64QAM	837.5	24075	15	1	0	21.79
64QAM	837.5	24075	15	1	37	21.54
64QAM	837.5	24075	15	1	74	21.08
64QAM	837.5	24075	15	36	0	20.95
64QAM	837.5	24075	15	36	29	20.66
64QAM	837.5	24075	15	36	30	20.67
64QAM	837.5	24075	15	75	0	20.74

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
19	QPSK	832.5	24025	5	25	0	4.466	Fig.1
19	QPSK	837.5	24075	5	25	0	4.465	Fig.2
19	QPSK	842.5	24125	5	25	0	4.465	Fig.3
19	QPSK	835	24050	10	50	0	8.955	Fig.4
19	QPSK	837.5	24075	10	50	0	8.915	Fig.5
19	QPSK	840	24100	10	50	0	8.909	Fig.6
19	QPSK	837.5	24075	15	75	0	13.393	Fig.7
19	QPSK	837.5	24075	15	75	0	13.355	Fig.8
19	QPSK	837.5	24075	15	75	0	13.387	Fig.9

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
19	16QAM	832.5	24025	5	25	0	4.477	Fig.10
19	16QAM	837.5	24075	5	25	0	4.464	Fig.11
19	16QAM	842.5	24125	5	25	0	4.476	Fig.12
19	16QAM	835	24050	10	50	0	8.953	Fig.13
19	16QAM	837.5	24075	10	50	0	8.899	Fig.14
19	16QAM	840	24100	10	50	0	8.933	Fig.15
19	16QAM	837.5	24075	15	75	0	13.351	Fig.16
19	16QAM	837.5	24075	15	75	0	13.317	Fig.17
19	16QAM	837.5	24075	15	75	0	13.418	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
19	64QAM	832.5	24025	5	25	0	4.463	Fig.19
19	64QAM	837.5	24075	5	25	0	4.457	Fig.20
19	64QAM	842.5	24125	5	25	0	4.473	Fig.21
19	64QAM	835	24050	10	50	0	8.949	Fig.22
19	64QAM	837.5	24075	10	50	0	8.919	Fig.23
19	64QAM	840	24100	10	50	0	8.914	Fig.24
19	64QAM	837.5	24075	15	75	0	13.323	Fig.25
19	64QAM	837.5	24075	15	75	0	13.295	Fig.26
19	64QAM	837.5	24075	15	75	0	13.400	Fig.27

Test Mode: QPSK

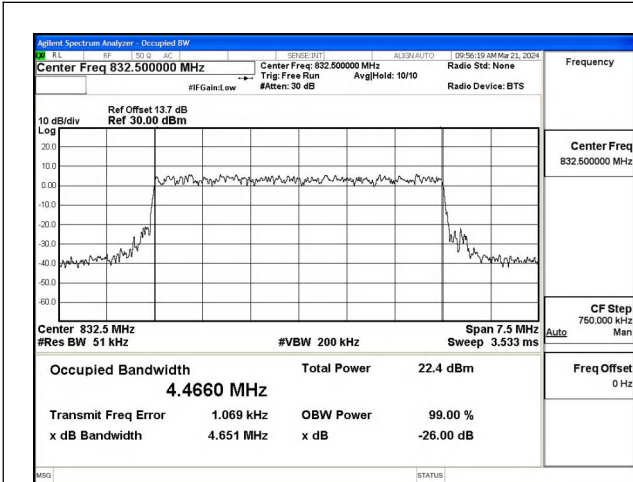


Fig.1

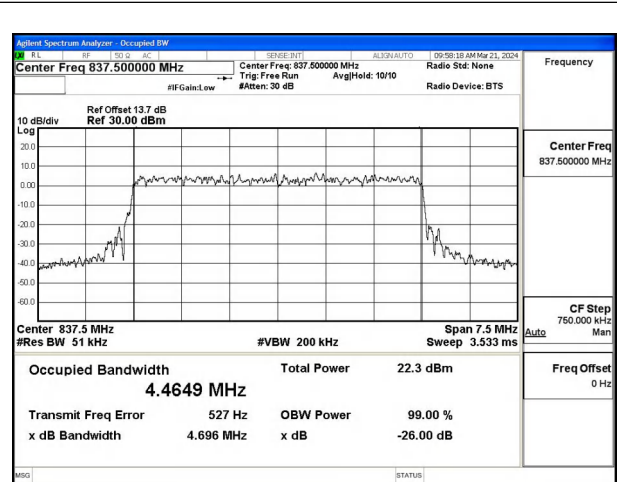


Fig.2

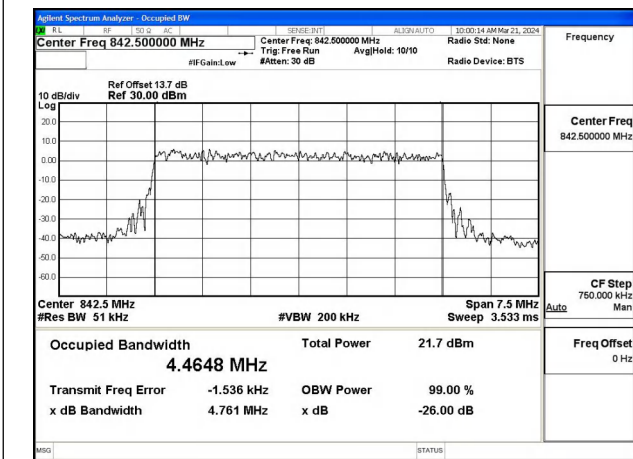


Fig.3

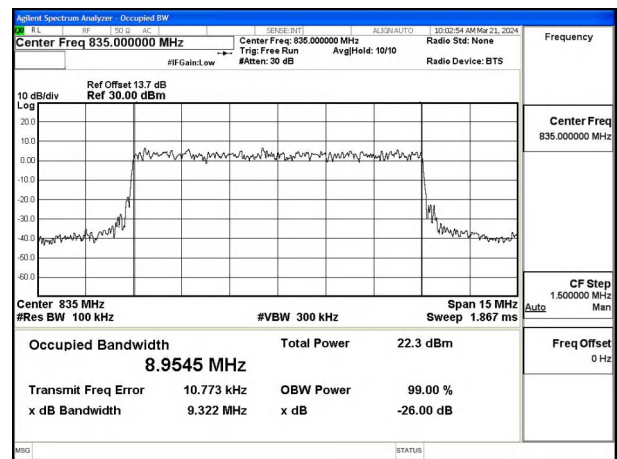


Fig.4

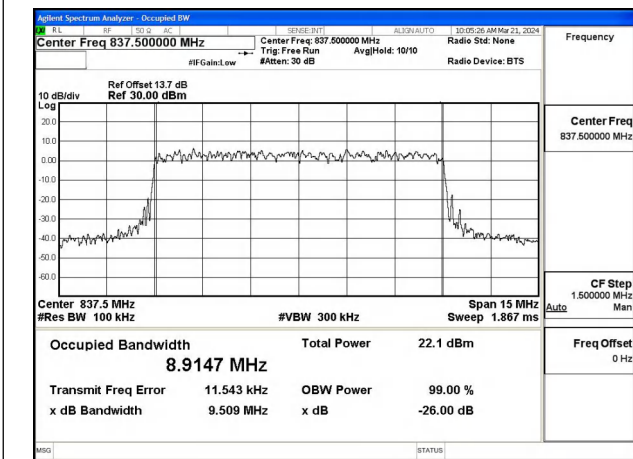


Fig.5

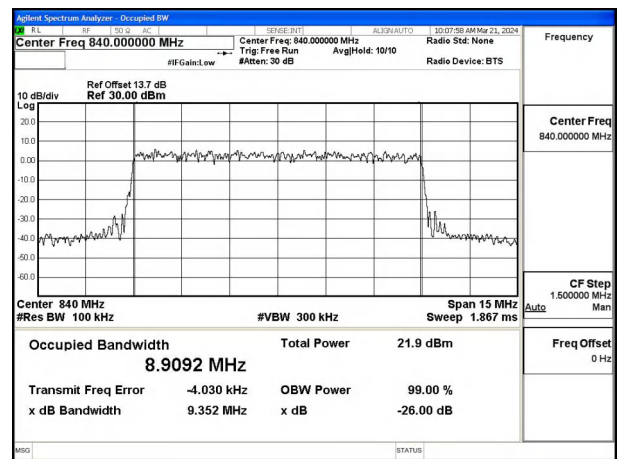


Fig.6

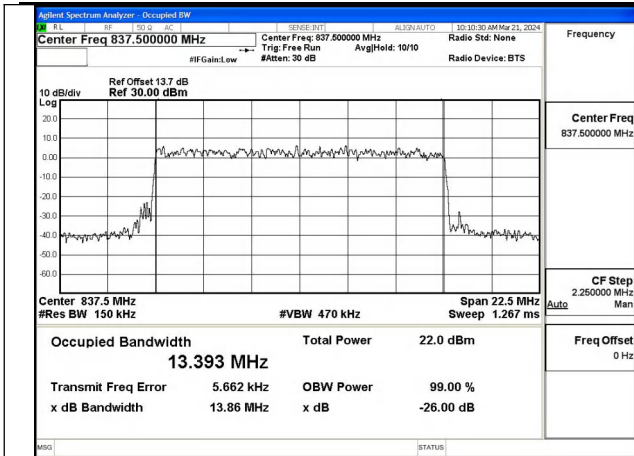


Fig.7

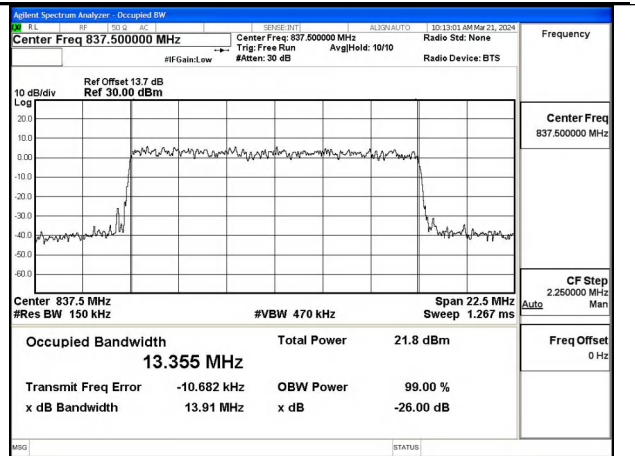


Fig.8

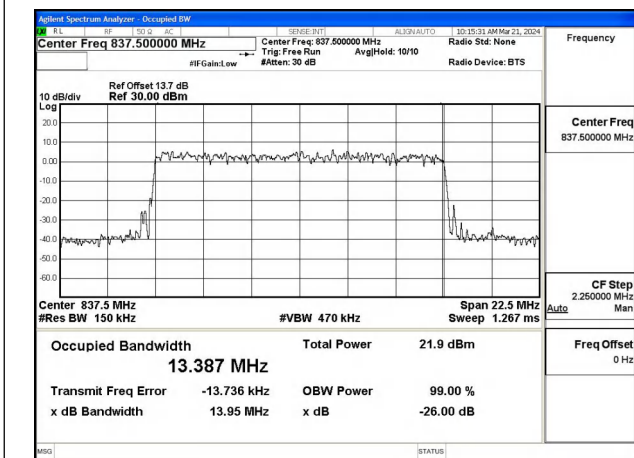


Fig.9

Test Mode: 16QAM

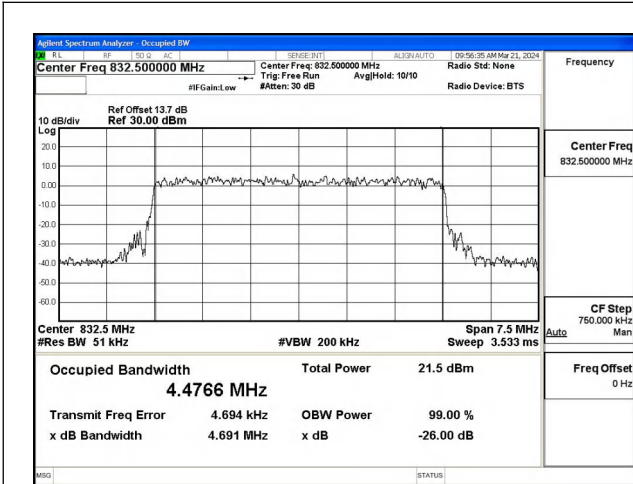


Fig.10

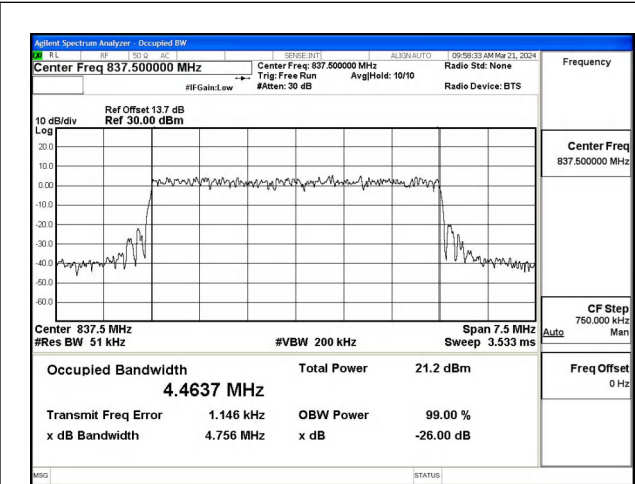


Fig.11

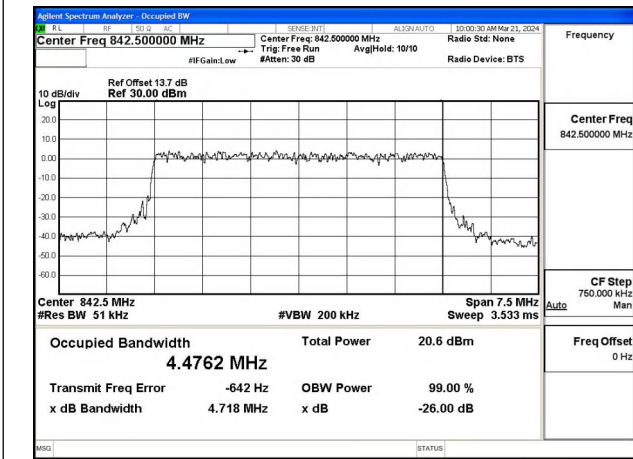


Fig.12

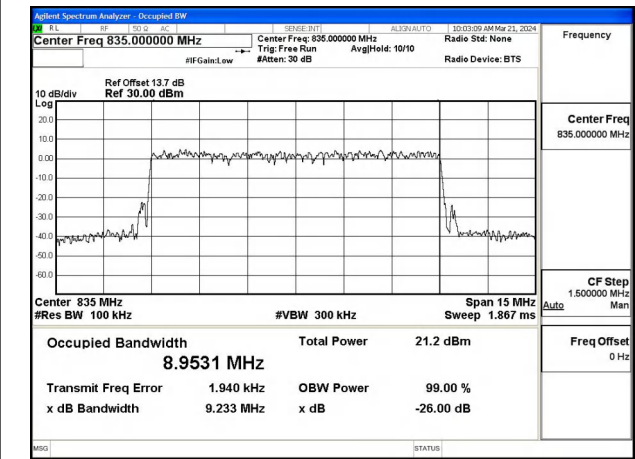


Fig.13

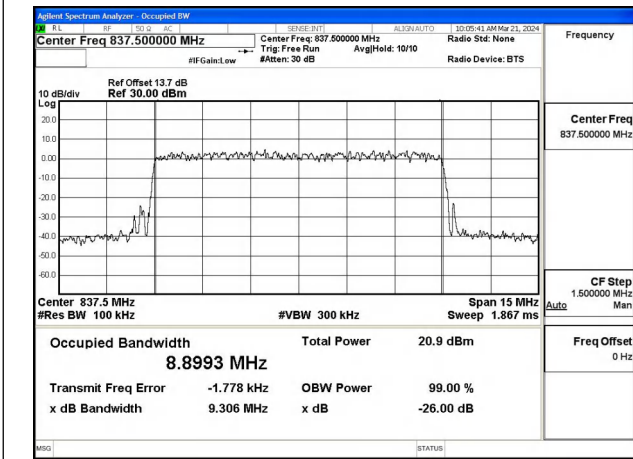


Fig.14

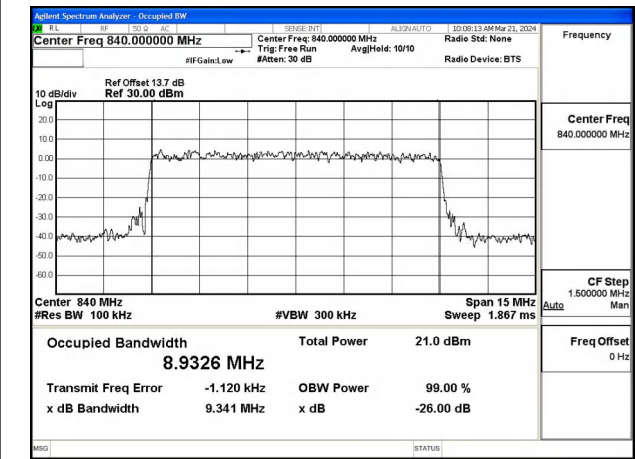


Fig.15

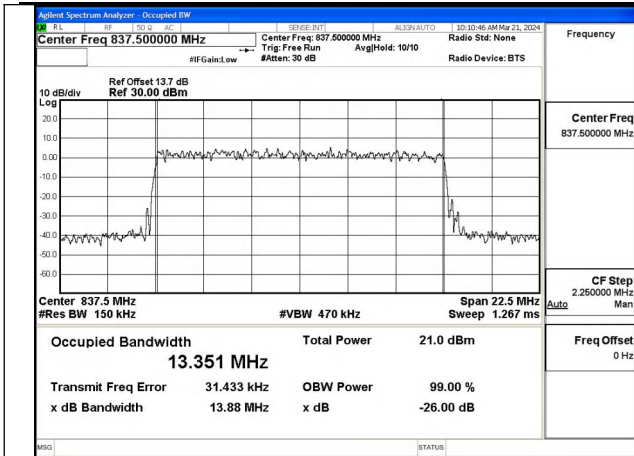


Fig.16

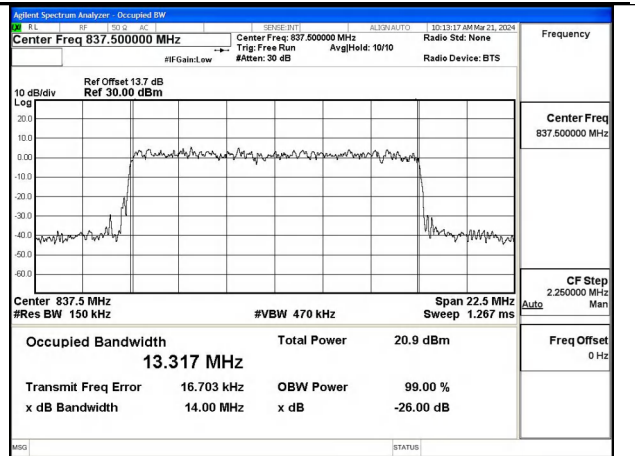


Fig.17

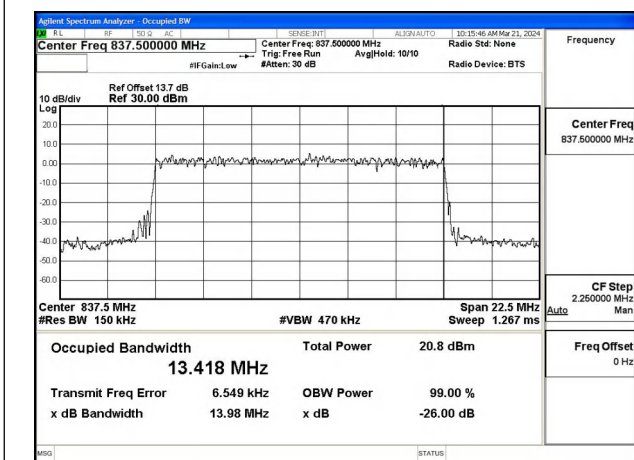


Fig.18

Test Mode: 64QAM

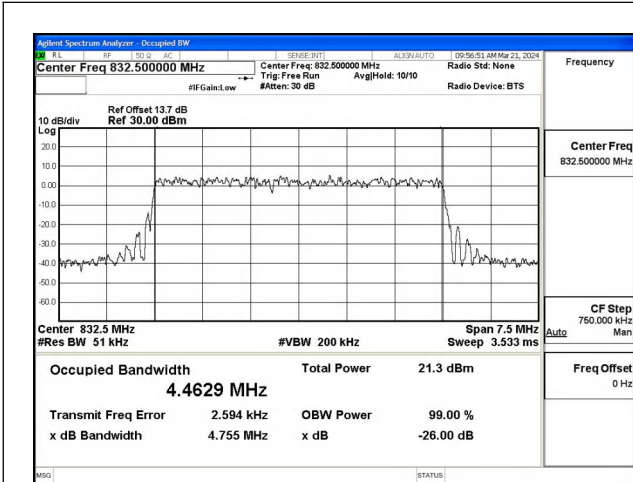


Fig.19

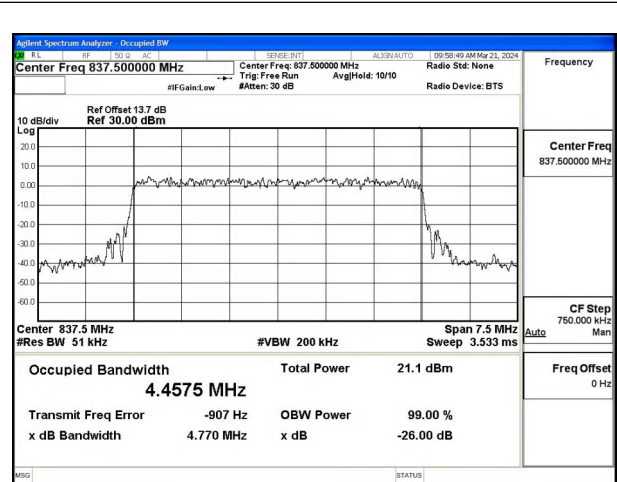


Fig.20

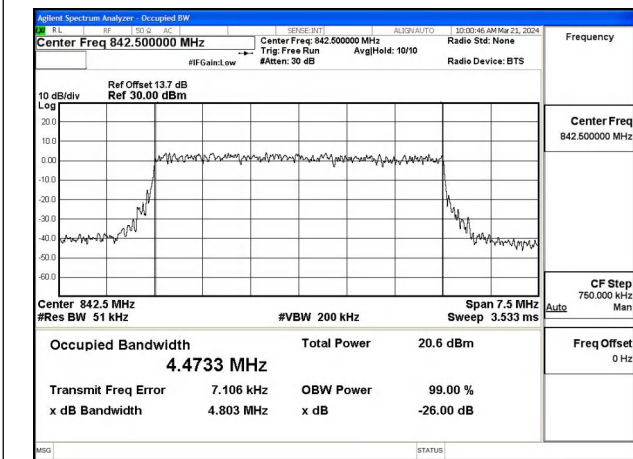


Fig.21

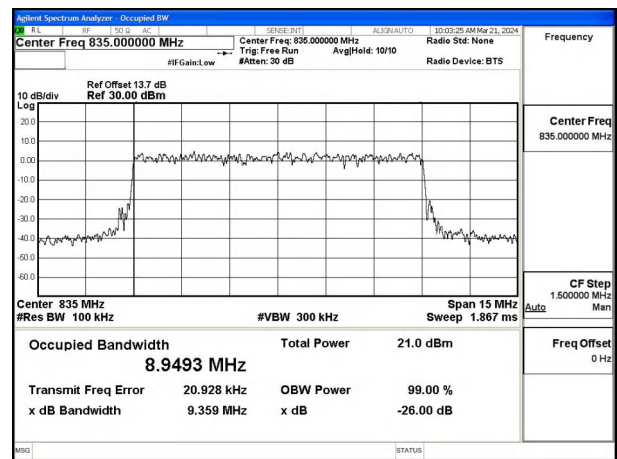


Fig.22

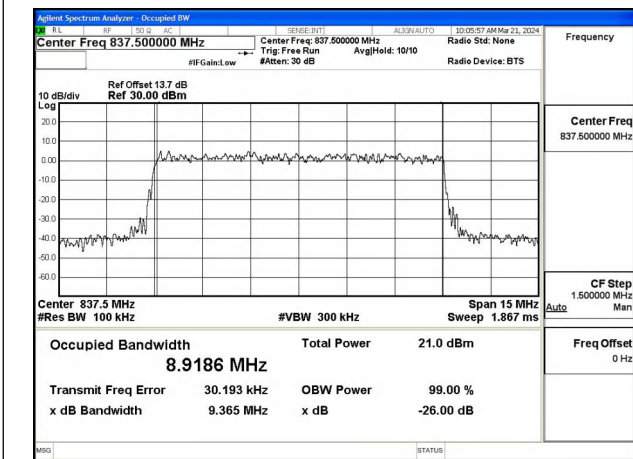


Fig.23

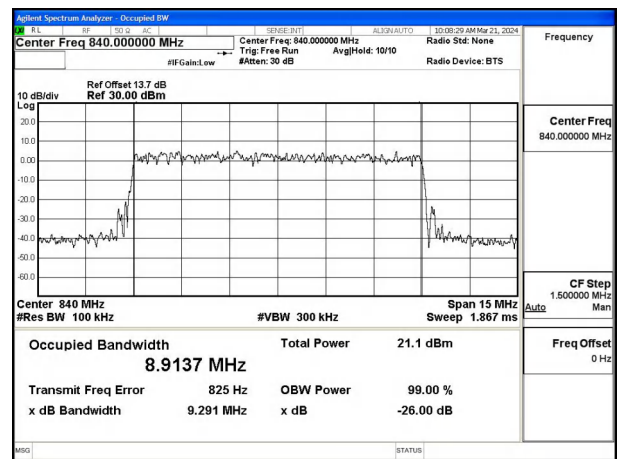


Fig.24

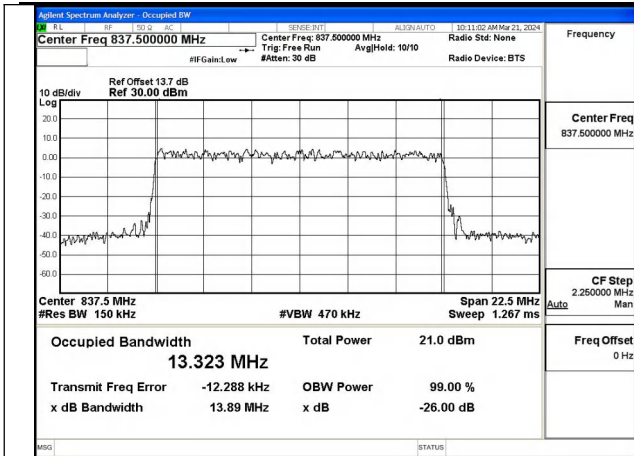


Fig.25

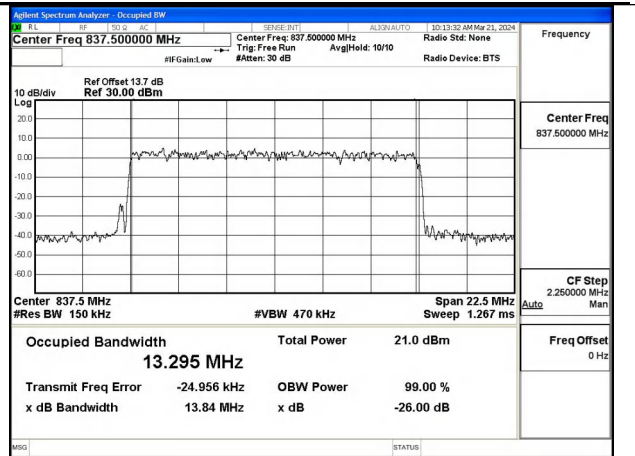


Fig.26

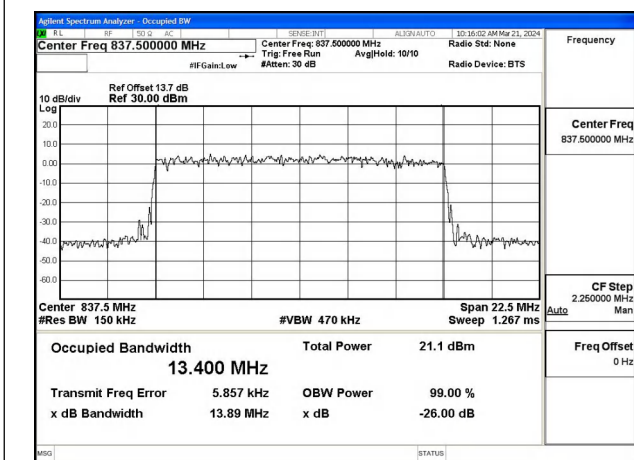


Fig.27

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
19	QPSK	832.5	24025	5	25	0	4.651	Fig.1
19	QPSK	837.5	24075	5	25	0	4.696	Fig.2
19	QPSK	842.5	24125	5	25	0	4.761	Fig.3
19	QPSK	835	24050	10	50	0	9.322	Fig.4
19	QPSK	837.5	24075	10	50	0	9.509	Fig.5
19	QPSK	840	24100	10	50	0	9.352	Fig.6
19	QPSK	837.5	24075	15	75	0	13.857	Fig.7
19	QPSK	837.5	24075	15	75	0	13.909	Fig.8
19	QPSK	837.5	24075	15	75	0	13.946	Fig.9

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
19	16QAM	832.5	24025	5	25	0	4.691	Fig.10
19	16QAM	837.5	24075	5	25	0	4.756	Fig.11
19	16QAM	842.5	24125	5	25	0	4.718	Fig.12
19	16QAM	835	24050	10	50	0	9.233	Fig.13
19	16QAM	837.5	24075	10	50	0	9.306	Fig.14
19	16QAM	840	24100	10	50	0	9.341	Fig.15
19	16QAM	837.5	24075	15	75	0	13.880	Fig.16
19	16QAM	837.5	24075	15	75	0	14.000	Fig.17
19	16QAM	837.5	24075	15	75	0	13.983	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
19	64QAM	832.5	24025	5	25	0	4.755	Fig.19
19	64QAM	837.5	24075	5	25	0	4.770	Fig.20
19	64QAM	842.5	24125	5	25	0	4.803	Fig.21
19	64QAM	835	24050	10	50	0	9.359	Fig.22
19	64QAM	837.5	24075	10	50	0	9.365	Fig.23
19	64QAM	840	24100	10	50	0	9.291	Fig.24
19	64QAM	837.5	24075	15	75	0	13.887	Fig.25
19	64QAM	837.5	24075	15	75	0	13.838	Fig.26
19	64QAM	837.5	24075	15	75	0	13.894	Fig.27

Test Mode: QPSK

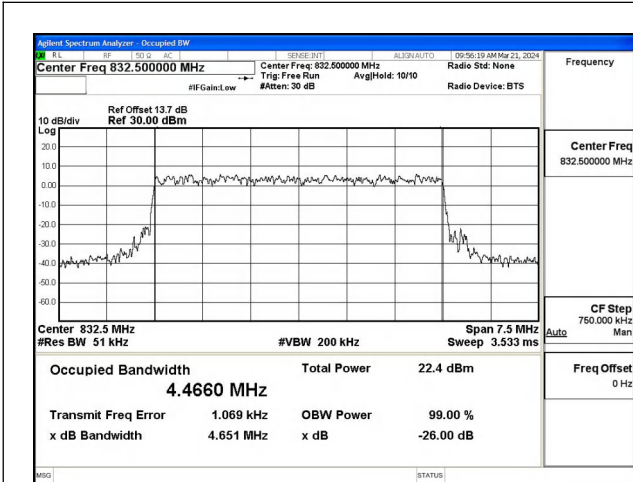


Fig.1

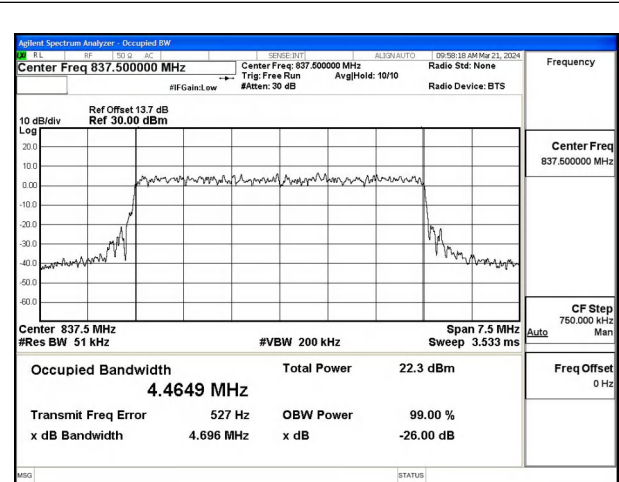


Fig.2

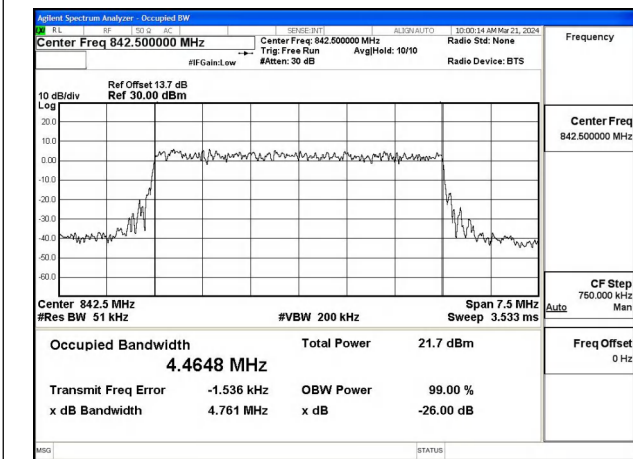


Fig.3

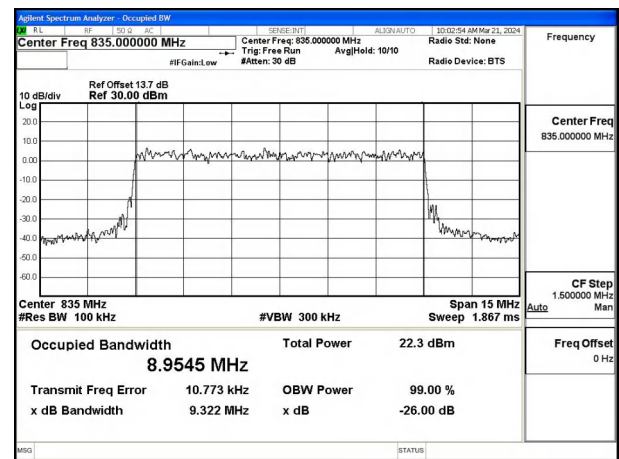


Fig.4

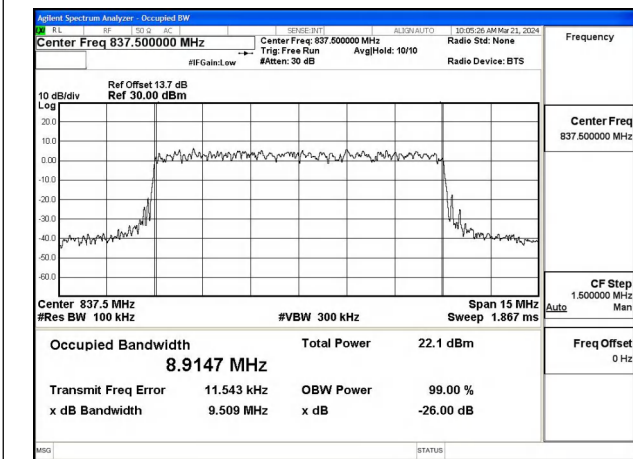


Fig.5

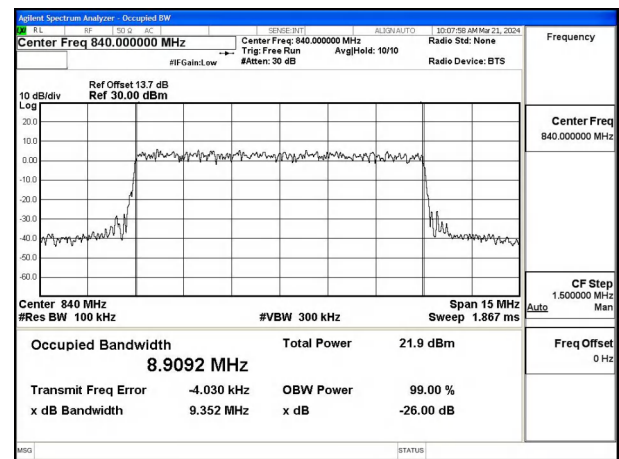


Fig.6

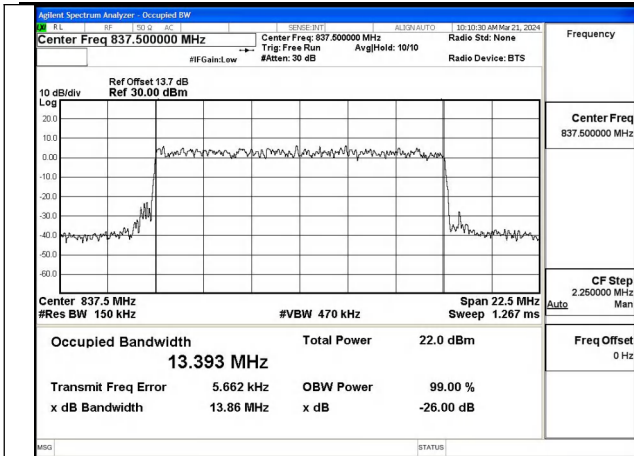


Fig.7

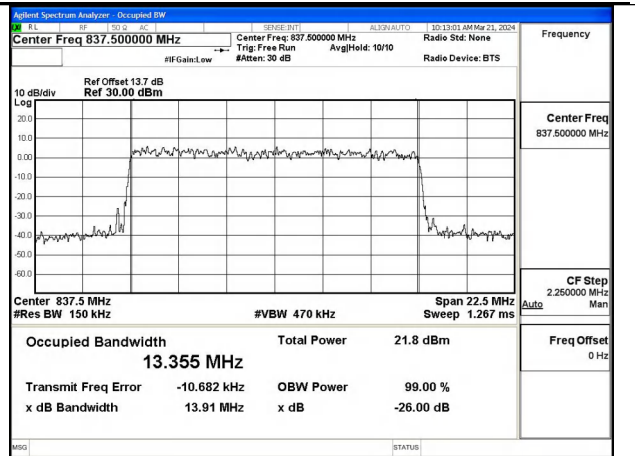


Fig.8

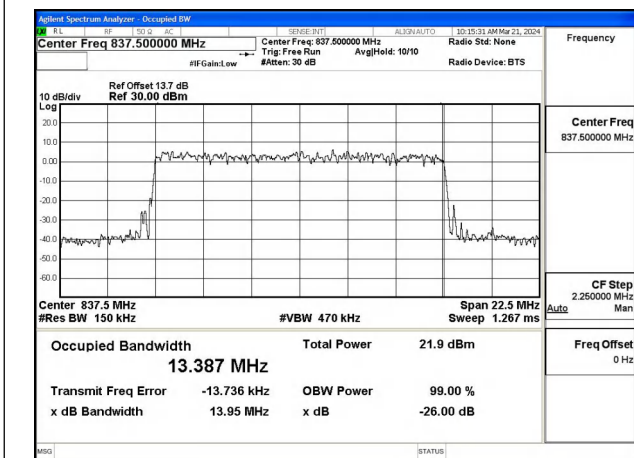


Fig.9

Test Mode: 16QAM

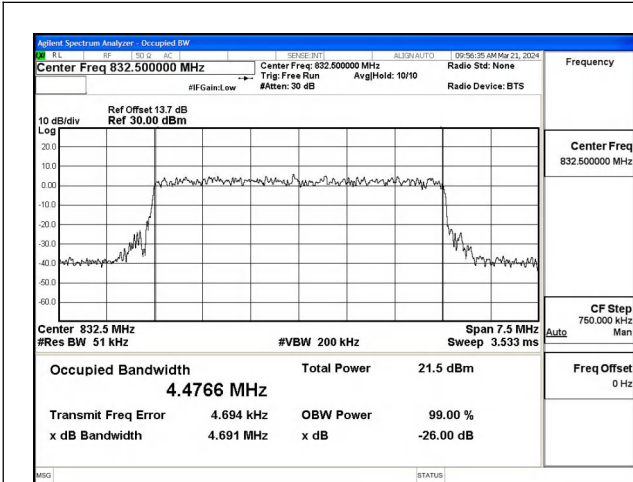


Fig.10

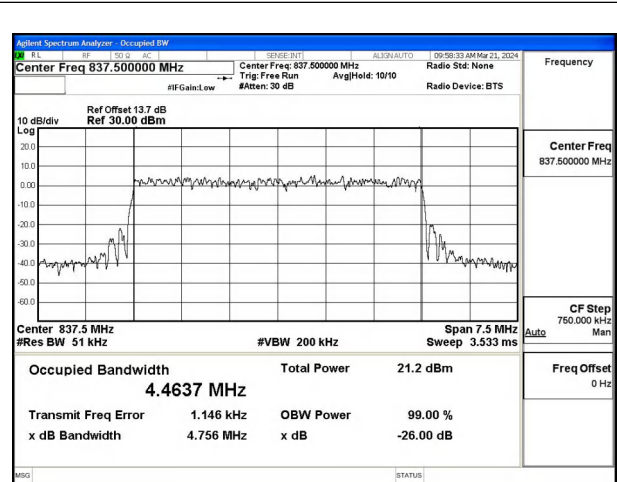


Fig.11

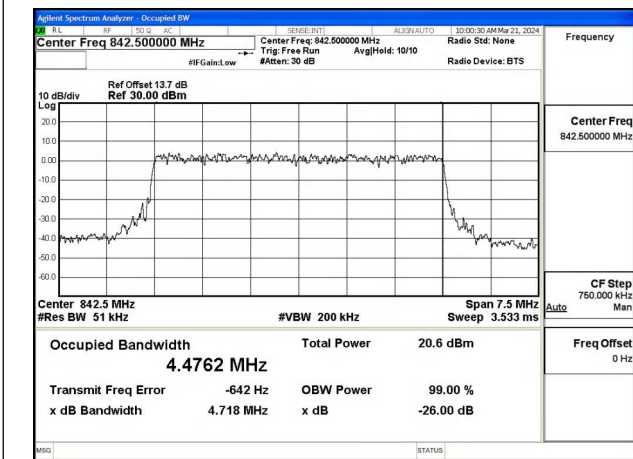


Fig.12

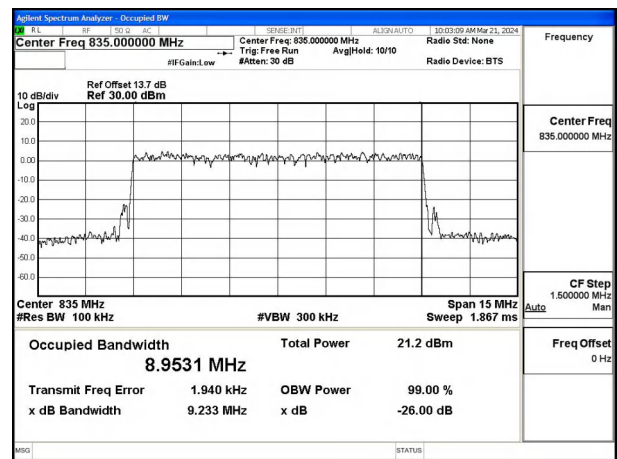


Fig.13

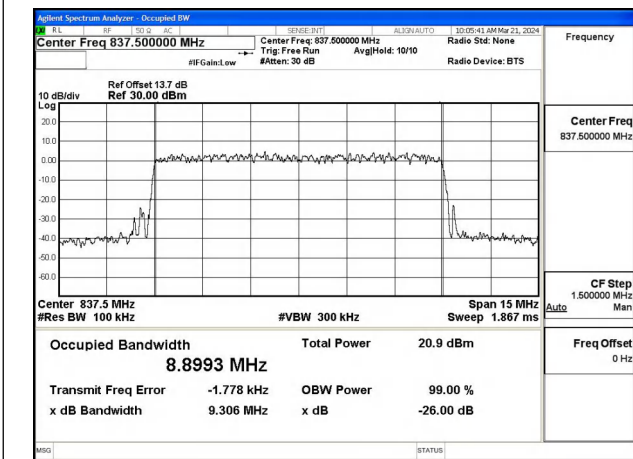


Fig.14

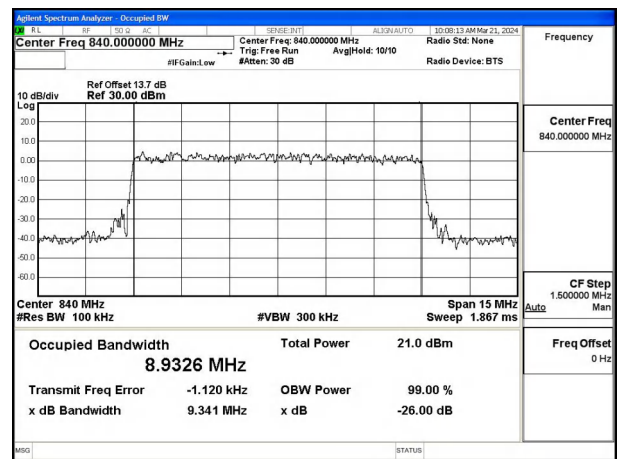


Fig.15

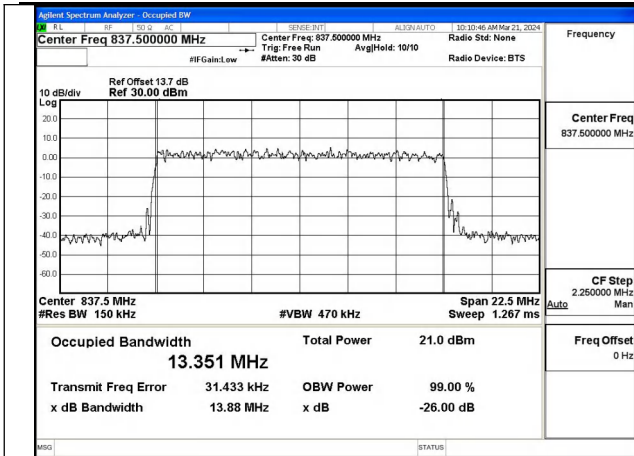


Fig.16

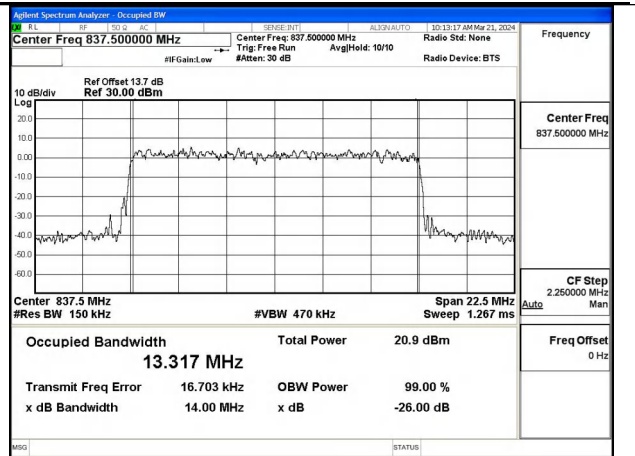


Fig.17

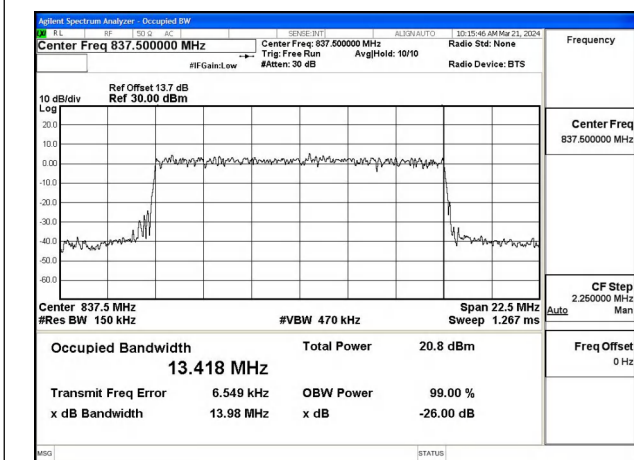


Fig.18

Test Mode: 64QAM

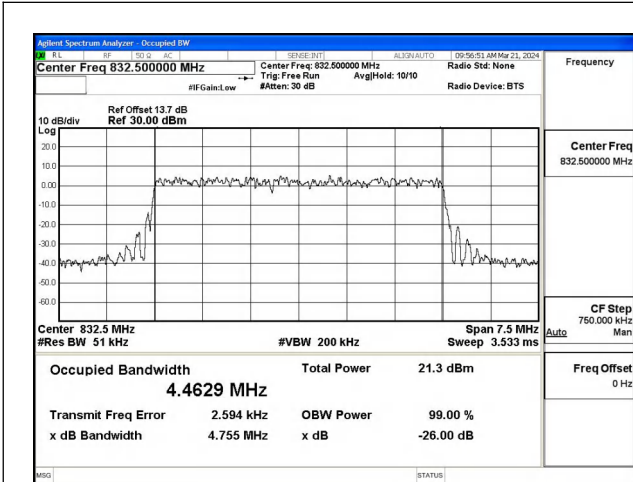


Fig.19

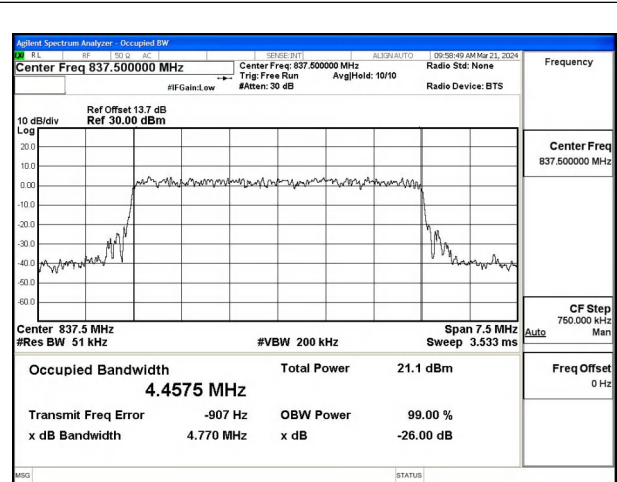


Fig.20

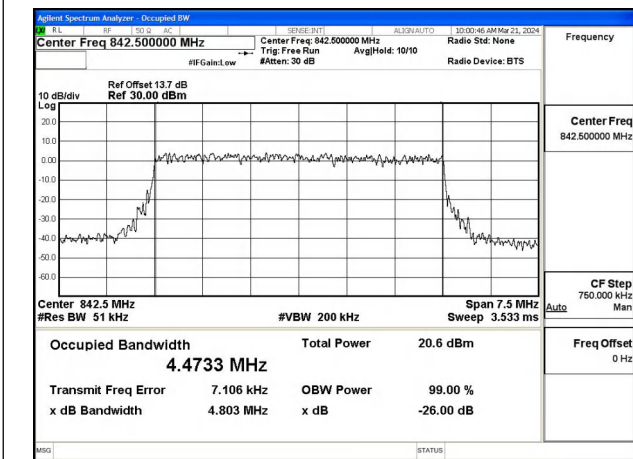


Fig.21

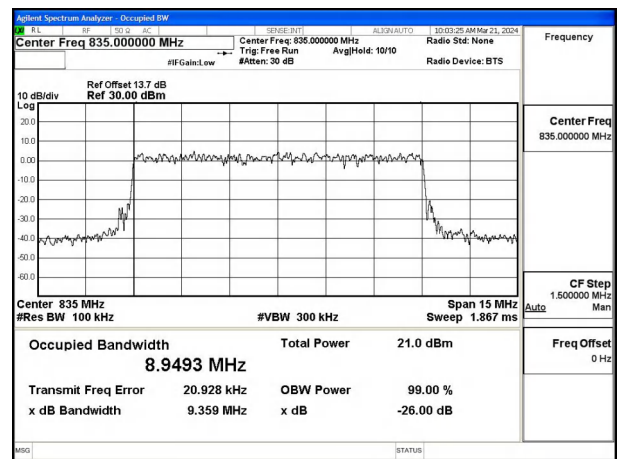


Fig.22

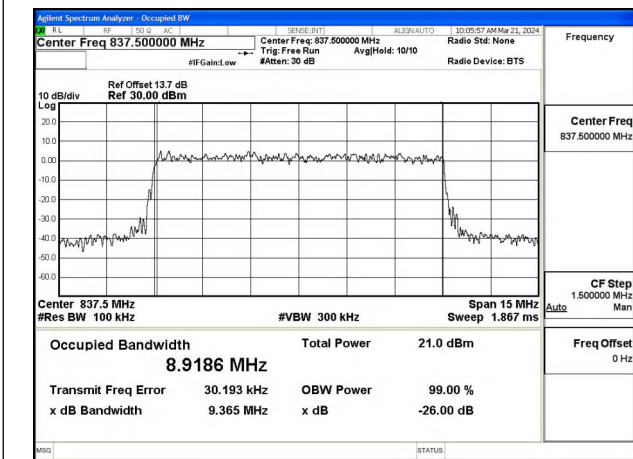


Fig.23

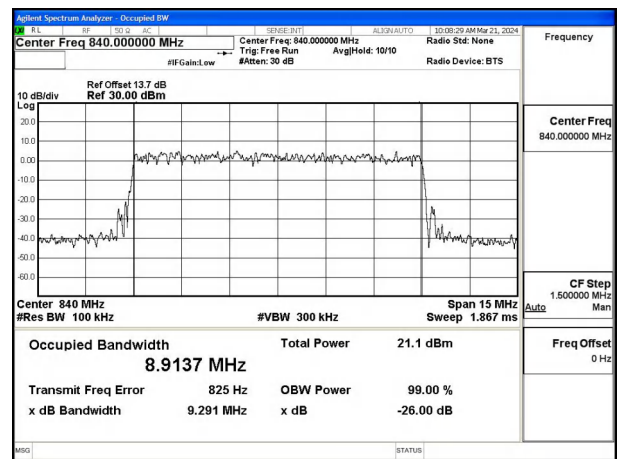


Fig.24

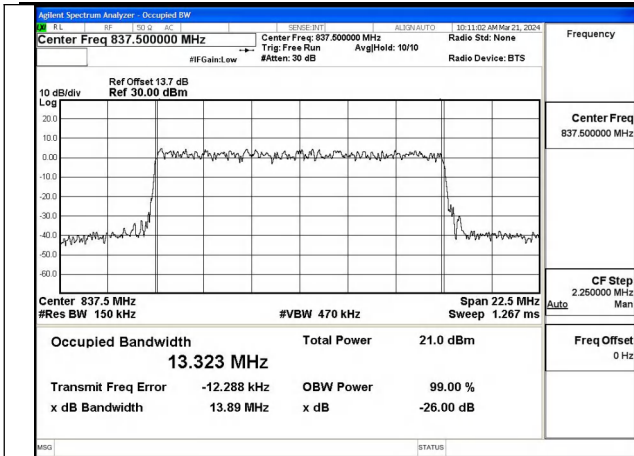


Fig.25

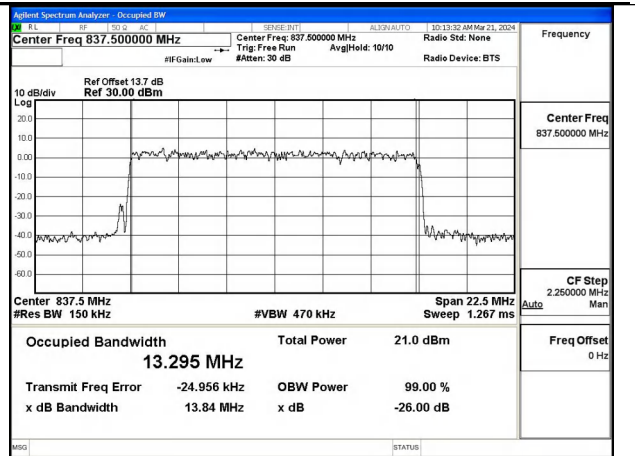


Fig.26

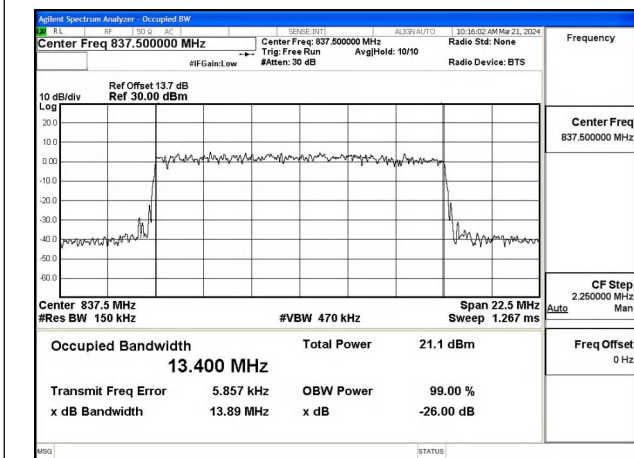


Fig.27

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
19	832.5	24025	5	1	24	Fig.1	Fig.2	Fig.3
19	832.5	24025	5	25	0	Fig.4	Fig.5	Fig.6
19	837.5	24075	5	1	24	Fig.7	Fig.8	Fig.9
19	837.5	24075	5	25	0	Fig.10	Fig.11	Fig.12
19	842.5	24125	5	1	24	Fig.13	Fig.14	Fig.15
19	842.5	24125	5	25	0	Fig.16	Fig.17	Fig.18
19	835	24050	10	1	49	Fig.19	Fig.20	Fig.21
19	835	24050	10	50	0	Fig.22	Fig.23	Fig.24
19	837.5	24075	10	1	49	Fig.25	Fig.26	Fig.27
19	837.5	24075	10	50	0	Fig.28	Fig.29	Fig.30
19	840	24100	10	1	49	Fig.31	Fig.32	Fig.33
19	840	24100	10	50	0	Fig.34	Fig.35	Fig.36
19	837.5	24075	15	1	74	Fig.37	Fig.38	Fig.39
19	837.5	24075	15	75	0	Fig.40	Fig.41	Fig.42

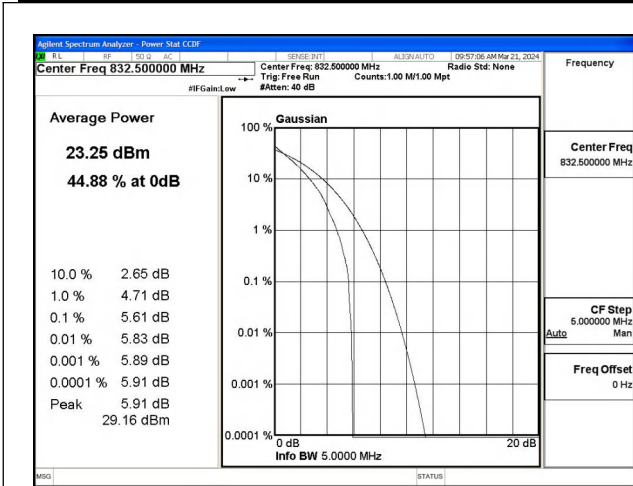


Fig.1

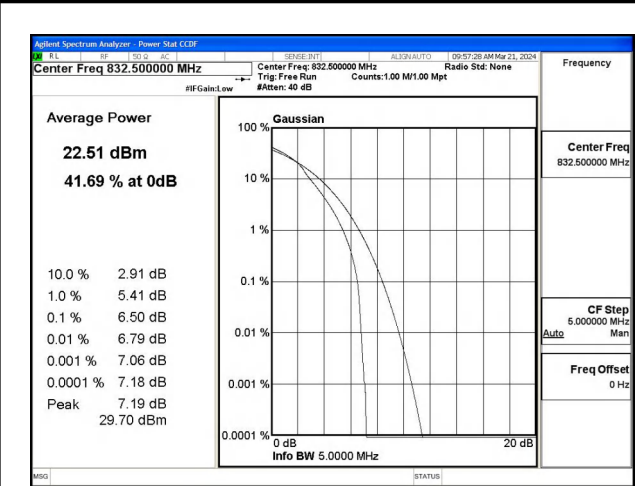


Fig.2

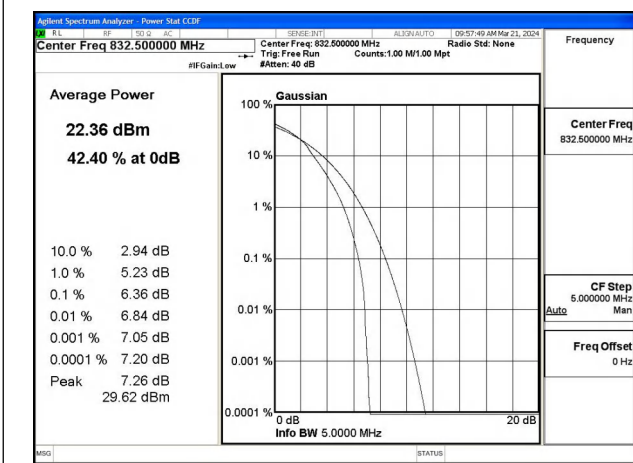


Fig.3

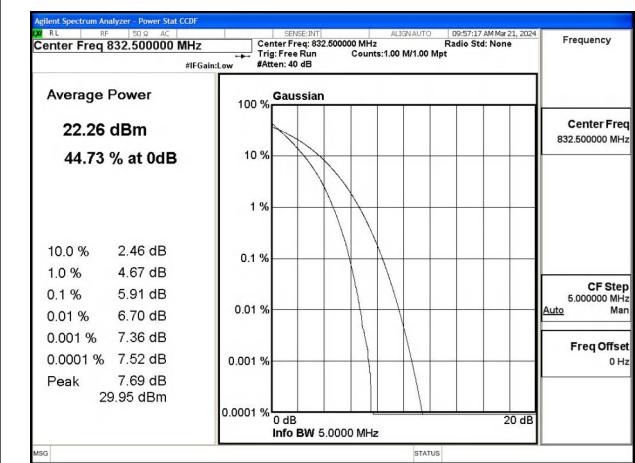


Fig.4

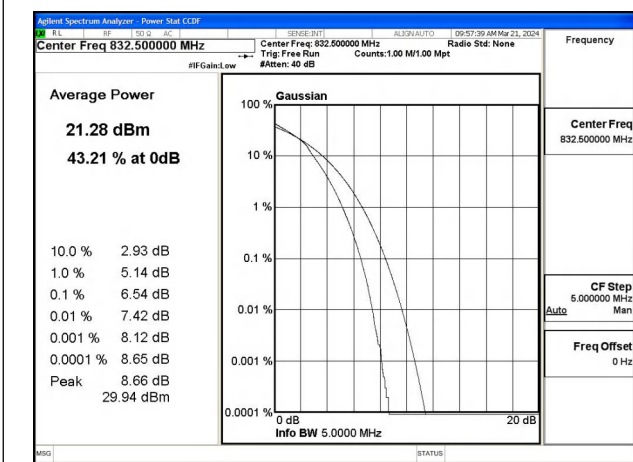


Fig.5

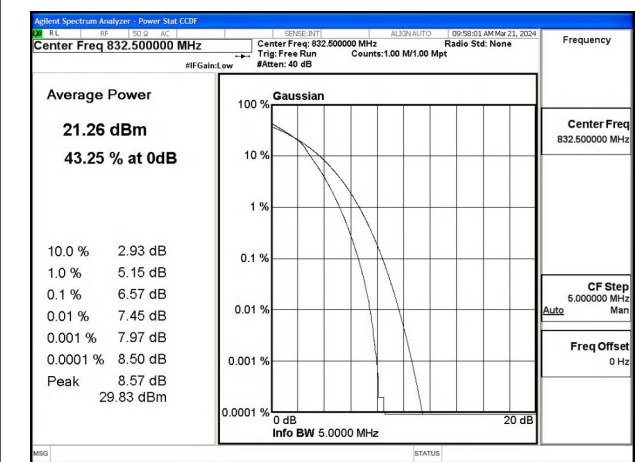


Fig.6

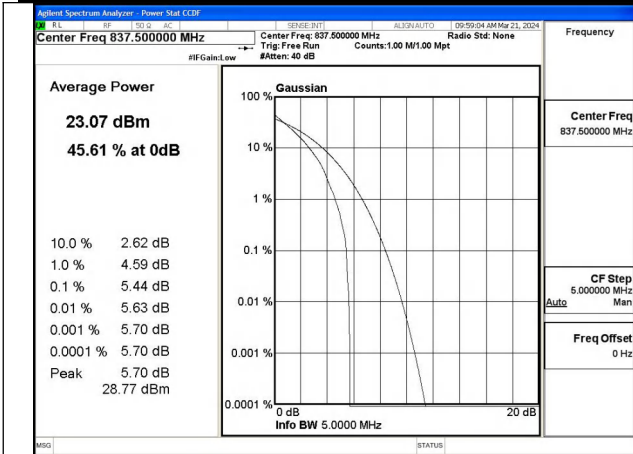


Fig.7

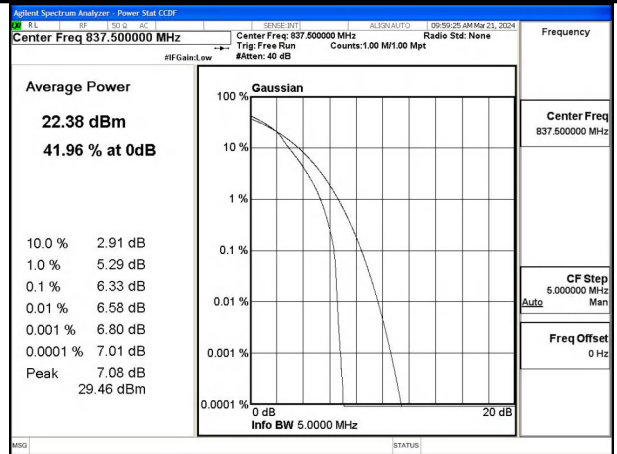


Fig.8

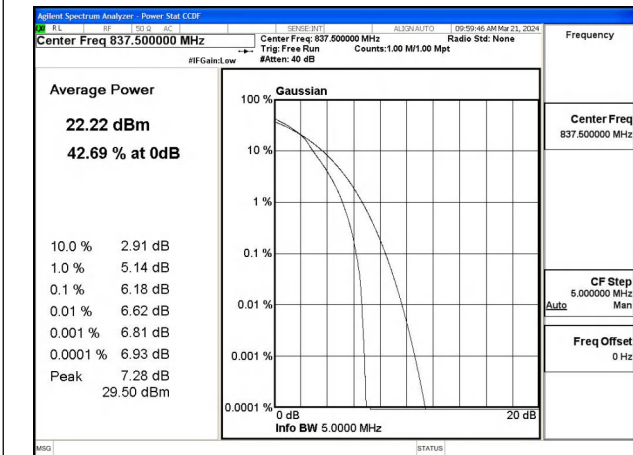


Fig.9

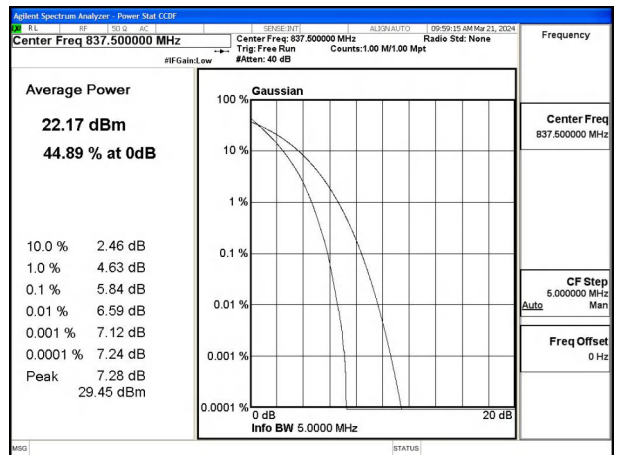


Fig.10

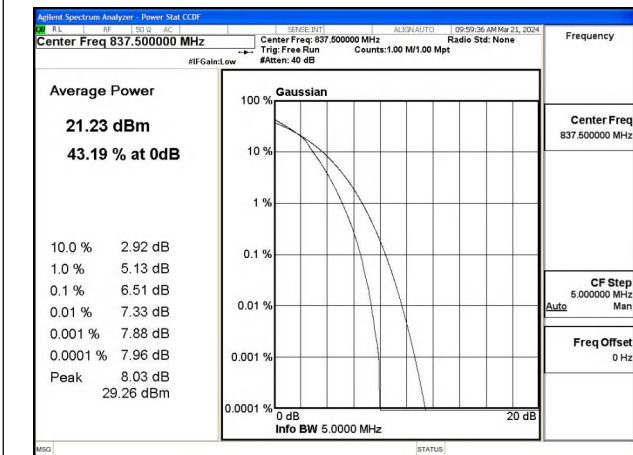


Fig.11

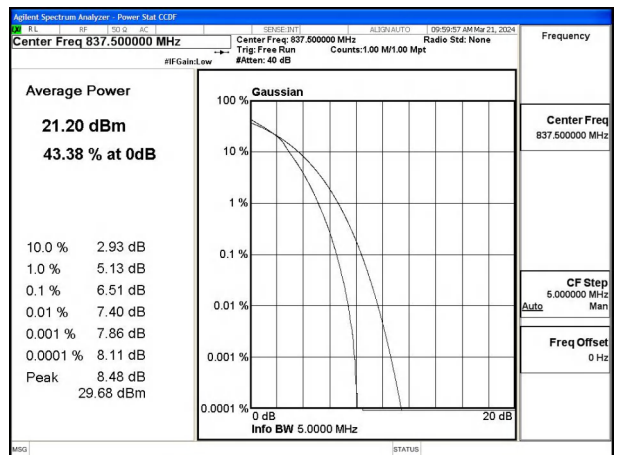


Fig.12

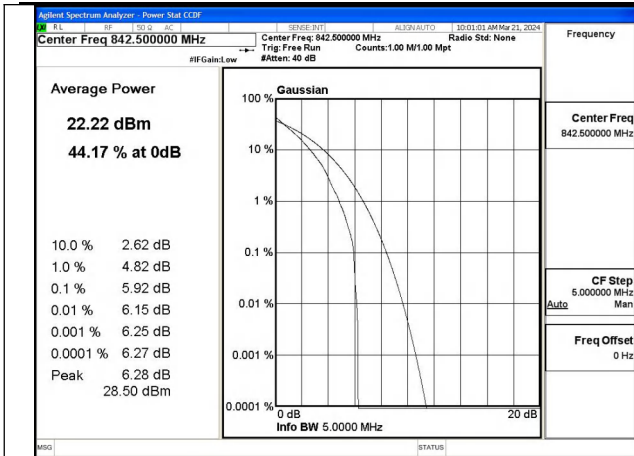


Fig.13

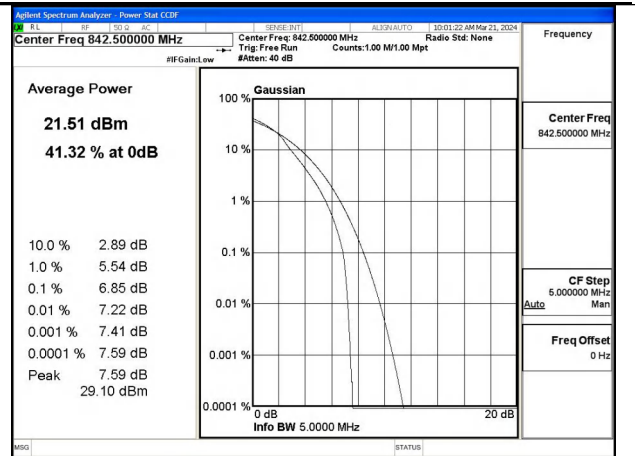


Fig.14

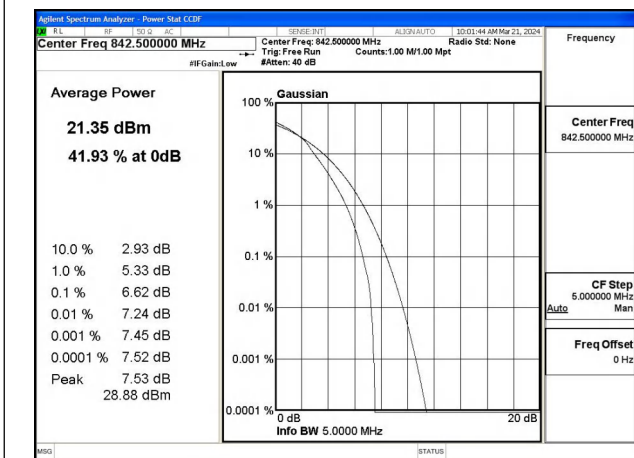


Fig.15

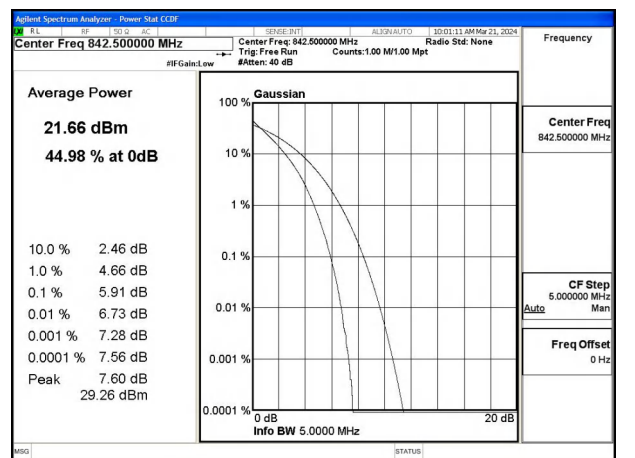


Fig.16

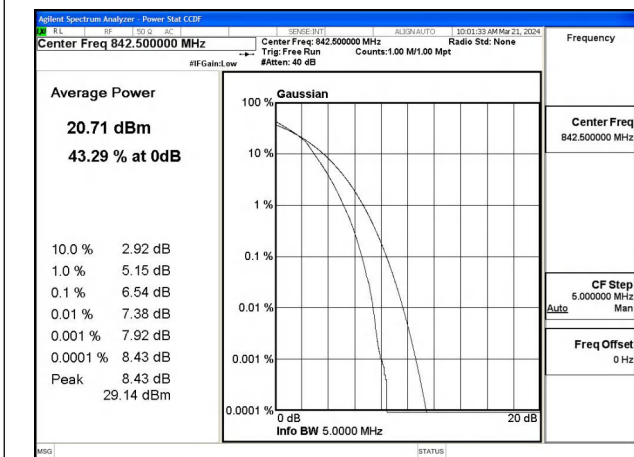


Fig.17

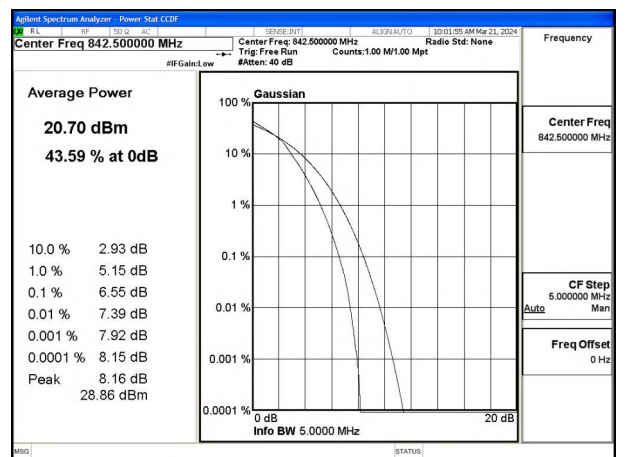


Fig.18

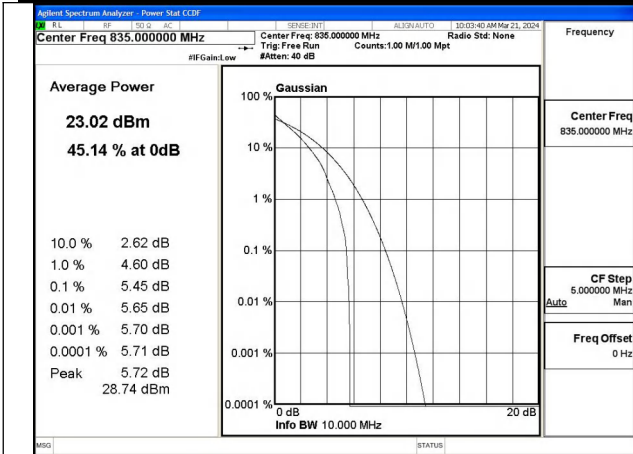


Fig.19

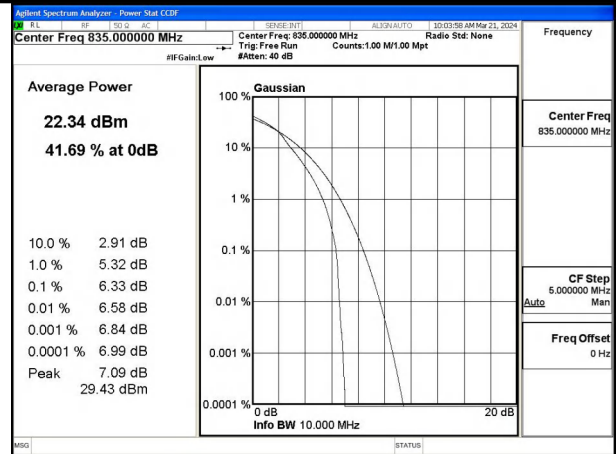


Fig.20

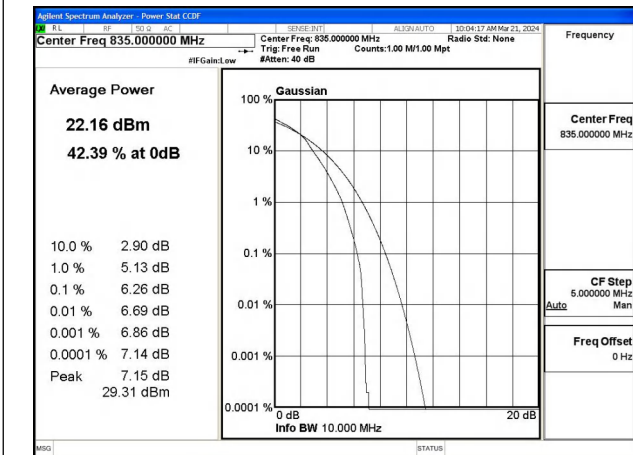


Fig.21

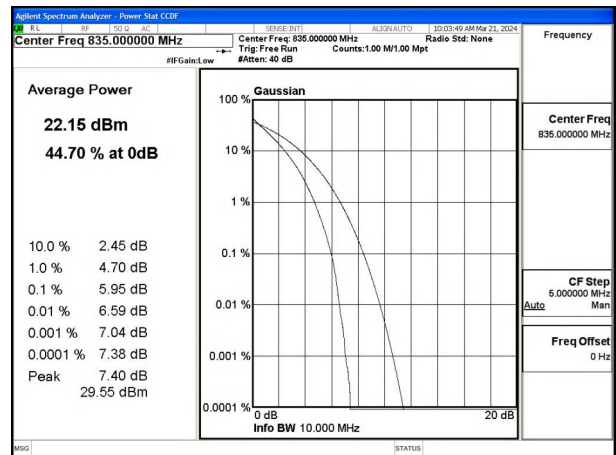


Fig.22

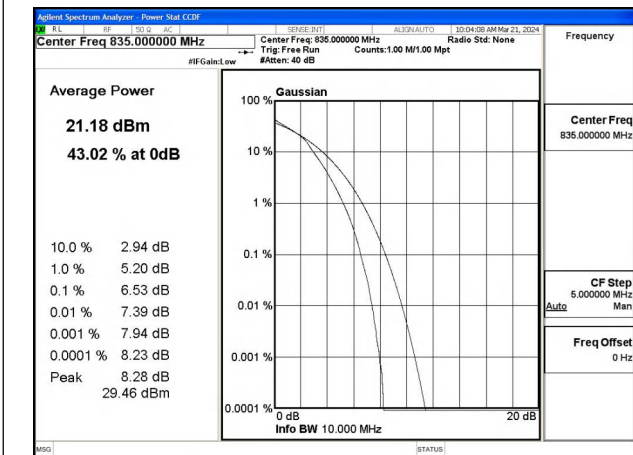


Fig.23

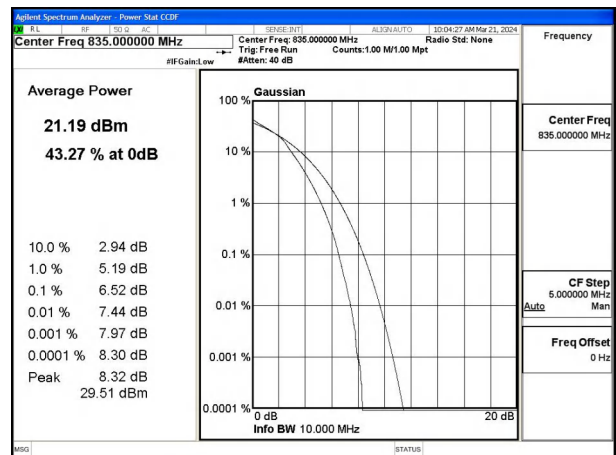


Fig.24