

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 48

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	3552.5	55265	5	1	0	22.98
QPSK	3552.5	55265	5	1	12	22.77
QPSK	3552.5	55265	5	1	24	22.65
QPSK	3552.5	55265	5	12	0	21.59
QPSK	3552.5	55265	5	12	7	21.63
QPSK	3552.5	55265	5	12	13	21.61
QPSK	3552.5	55265	5	25	0	21.58
QPSK	3625	55990	5	1	0	24.05
QPSK	3625	55990	5	1	12	24.16
QPSK	3625	55990	5	1	24	24.16
QPSK	3625	55990	5	12	0	23.03
QPSK	3625	55990	5	12	7	23.12
QPSK	3625	55990	5	12	13	23.11
QPSK	3625	55990	5	25	0	23.07
QPSK	3697.5	56715	5	1	0	23.23
QPSK	3697.5	56715	5	1	12	23.40
QPSK	3697.5	56715	5	1	24	23.40
QPSK	3697.5	56715	5	12	0	22.42
QPSK	3697.5	56715	5	12	7	22.48
QPSK	3697.5	56715	5	12	13	22.48
QPSK	3697.5	56715	5	25	0	22.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	3552.5	55265	5	1	0	22.07
16QAM	3552.5	55265	5	1	12	22.12
16QAM	3552.5	55265	5	1	24	22.12
16QAM	3552.5	55265	5	12	0	20.60
16QAM	3552.5	55265	5	12	7	20.50
16QAM	3552.5	55265	5	12	13	20.60
16QAM	3552.5	55265	5	25	0	20.54
16QAM	3625	55990	5	1	0	23.20
16QAM	3625	55990	5	1	12	23.30
16QAM	3625	55990	5	1	24	23.26
16QAM	3625	55990	5	12	0	22.14
16QAM	3625	55990	5	12	7	22.04
16QAM	3625	55990	5	12	13	22.08
16QAM	3625	55990	5	25	0	22.05
16QAM	3697.5	56715	5	1	0	22.84
16QAM	3697.5	56715	5	1	12	22.91
16QAM	3697.5	56715	5	1	24	22.64
16QAM	3697.5	56715	5	12	0	21.54
16QAM	3697.5	56715	5	12	7	21.59
16QAM	3697.5	56715	5	12	13	21.53
16QAM	3697.5	56715	5	25	0	21.51
64QAM	3552.5	55265	5	1	0	21.68
64QAM	3552.5	55265	5	1	12	21.79
64QAM	3552.5	55265	5	1	24	21.65
64QAM	3552.5	55265	5	12	0	20.53
64QAM	3552.5	55265	5	12	7	20.56
64QAM	3552.5	55265	5	12	13	20.55
64QAM	3552.5	55265	5	25	0	20.54
64QAM	3625	55990	5	1	0	22.87
64QAM	3625	55990	5	1	12	23.19
64QAM	3625	55990	5	1	24	23.28
64QAM	3625	55990	5	12	0	22.01
64QAM	3625	55990	5	12	7	22.10
64QAM	3625	55990	5	12	13	22.08
64QAM	3625	55990	5	25	0	22.05
64QAM	3697.5	56715	5	1	0	22.49
64QAM	3697.5	56715	5	1	12	23.09
64QAM	3697.5	56715	5	1	24	22.41
64QAM	3697.5	56715	5	12	0	21.44
64QAM	3697.5	56715	5	12	7	21.70
64QAM	3697.5	56715	5	12	13	21.67
64QAM	3697.5	56715	5	25	0	21.48

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	3555	55290	10	1	0	22.64
QPSK	3555	55290	10	1	25	22.75
QPSK	3555	55290	10	1	49	22.74
QPSK	3555	55290	10	25	0	21.59
QPSK	3555	55290	10	25	12	21.63
QPSK	3555	55290	10	25	25	21.65
QPSK	3555	55290	10	50	0	21.62
QPSK	3625	55990	10	1	0	24.40
QPSK	3625	55990	10	1	25	24.46
QPSK	3625	55990	10	1	49	24.48
QPSK	3625	55990	10	25	0	23.34
QPSK	3625	55990	10	25	12	23.37
QPSK	3625	55990	10	25	25	23.45
QPSK	3625	55990	10	50	0	23.38
QPSK	3695	56690	10	1	0	23.57
QPSK	3695	56690	10	1	25	23.56
QPSK	3695	56690	10	1	49	23.71
QPSK	3695	56690	10	25	0	22.58
QPSK	3695	56690	10	25	12	22.62
QPSK	3695	56690	10	25	25	22.68
QPSK	3695	56690	10	50	0	22.61

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	3555	55290	10	1	0	22.08
16QAM	3555	55290	10	1	25	22.17
16QAM	3555	55290	10	1	49	21.93
16QAM	3555	55290	10	25	0	20.54
16QAM	3555	55290	10	25	12	20.62
16QAM	3555	55290	10	25	25	20.64
16QAM	3555	55290	10	50	0	20.59
16QAM	3625	55990	10	1	0	23.47
16QAM	3695	56690	10	1	0	22.70
16QAM	3695	56690	10	1	25	23.06
16QAM	3695	56690	10	1	49	23.04
16QAM	3695	56690	10	25	0	21.57
16QAM	3695	56690	10	25	12	21.66
16QAM	3695	56690	10	25	25	21.78
16QAM	3695	56690	10	50	0	21.66
16QAM	3625	55990	10	1	25	23.71
16QAM	3625	55990	10	1	49	23.78
16QAM	3625	55990	10	25	0	22.26
16QAM	3625	55990	10	25	12	22.37
16QAM	3625	55990	10	25	25	22.39
16QAM	3625	55990	10	50	0	22.37
64QAM	3555	55290	10	1	0	21.69
64QAM	3555	55290	10	1	25	21.90
64QAM	3555	55290	10	1	49	21.79
64QAM	3555	55290	10	25	0	20.54
64QAM	3555	55290	10	25	12	20.62
64QAM	3555	55290	10	25	25	20.61
64QAM	3555	55290	10	50	0	20.61
64QAM	3695	56690	10	1	0	22.55
64QAM	3695	56690	10	1	25	22.76
64QAM	3695	56690	10	1	49	22.98
64QAM	3695	56690	10	25	0	21.65
64QAM	3695	56690	10	25	12	21.65
64QAM	3695	56690	10	25	25	21.67
64QAM	3695	56690	10	50	0	21.64
64QAM	3625	55990	10	1	0	22.57
64QAM	3625	55990	10	1	25	22.48
64QAM	3625	55990	10	1	49	22.92
64QAM	3625	55990	10	25	0	21.26
64QAM	3625	55990	10	25	12	21.26
64QAM	3625	55990	10	25	25	21.28
64QAM	3625	55990	10	50	0	21.26

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	3557.5	55315	15	1	0	22.81
QPSK	3557.5	55315	15	1	37	22.89
QPSK	3557.5	55315	15	1	74	22.88
QPSK	3557.5	55315	15	36	0	21.72
QPSK	3557.5	55315	15	36	29	21.75
QPSK	3557.5	55315	15	36	30	21.76
QPSK	3557.5	55315	15	75	0	21.73
QPSK	3625	55990	15	1	0	24.11
QPSK	3625	55990	15	1	37	24.23
QPSK	3625	55990	15	1	74	24.33
QPSK	3625	55990	15	36	0	23.08
QPSK	3625	55990	15	36	29	23.20
QPSK	3625	55990	15	36	30	23.22
QPSK	3625	55990	15	75	0	23.17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	3557.5	55315	15	1	0	22.25
16QAM	3557.5	55315	15	1	37	22.31
16QAM	3557.5	55315	15	1	74	22.00
16QAM	3557.5	55315	15	36	0	20.73
16QAM	3557.5	55315	15	36	29	20.79
16QAM	3557.5	55315	15	36	30	20.72
16QAM	3557.5	55315	15	75	0	20.68
16QAM	3625	55990	15	1	0	23.35
16QAM	3625	55990	15	1	37	23.50
16QAM	3625	55990	15	1	74	23.66
16QAM	3625	55990	15	36	0	22.07
16QAM	3625	55990	15	36	29	22.12
16QAM	3625	55990	15	36	30	22.20
16QAM	3625	55990	15	75	0	22.16
64QAM	3557.5	55315	15	1	0	21.03
64QAM	3557.5	55315	15	1	37	21.48
64QAM	3557.5	55315	15	1	74	21.06
64QAM	3557.5	55315	15	36	0	19.66
64QAM	3557.5	55315	15	36	29	19.61
64QAM	3557.5	55315	15	36	30	19.62
64QAM	3557.5	55315	15	75	0	19.60
64QAM	3625	55990	15	1	0	22.44
64QAM	3625	55990	15	1	37	22.62
64QAM	3625	55990	15	1	74	22.57
64QAM	3625	55990	15	36	0	21.04
64QAM	3625	55990	15	36	29	21.20
64QAM	3625	55990	15	36	30	21.17
64QAM	3625	55990	15	75	0	21.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	3560	55340	20	1	0	22.86
QPSK	3560	55340	20	1	49	22.98
QPSK	3560	55340	20	1	99	22.88
QPSK	3560	55340	20	50	0	21.87
QPSK	3560	55340	20	50	24	21.85
QPSK	3560	55340	20	50	50	21.86
QPSK	3560	55340	20	100	0	21.86

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	3560	55340	20	1	0	21.85
16QAM	3560	55340	20	1	49	22.04
16QAM	3560	55340	20	1	99	22.01
16QAM	3560	55340	20	50	0	20.83
16QAM	3560	55340	20	50	24	20.78
16QAM	3560	55340	20	50	50	20.80
16QAM	3560	55340	20	100	0	20.80
64QAM	3560	55340	20	1	0	20.62
64QAM	3560	55340	20	1	49	21.27
64QAM	3560	55340	20	1	99	20.72
64QAM	3560	55340	20	50	0	19.75
64QAM	3560	55340	20	50	24	19.68
64QAM	3560	55340	20	50	50	19.69
64QAM	3560	55340	20	100	0	19.73

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
48	QPSK	3552.5	55265	5	25	0	4.480	Fig.1
48	QPSK	3625	55990	5	25	0	4.510	Fig.2
48	QPSK	3697.5	56715	5	25	0	4.474	Fig.3
48	QPSK	3555	55290	10	50	0	8.930	Fig.4
48	QPSK	3625	55990	10	50	0	8.870	Fig.5
48	QPSK	3695	56690	10	50	0	8.912	Fig.6
48	QPSK	3557.5	55315	15	75	0	13.352	Fig.7
48	QPSK	3625	55990	15	75	0	13.411	Fig.8
48	QPSK	3692.5	56665	15	75	0	13.339	Fig.9
48	QPSK	3560	55340	20	100	0	17.818	Fig.10
48	QPSK	3625	55990	20	100	0	17.805	Fig.11
48	QPSK	3690	56640	20	100	0	17.816	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
48	16QAM	3552.5	55265	5	25	0	4.499	Fig.13
48	16QAM	3625	55990	5	25	0	4.436	Fig.14
48	16QAM	3697.5	56715	5	25	0	4.460	Fig.15
48	16QAM	3555	55290	10	50	0	8.946	Fig.16
48	16QAM	3625	55990	10	50	0	8.897	Fig.17
48	16QAM	3695	56690	10	50	0	8.859	Fig.18
48	16QAM	3557.5	55315	15	75	0	13.330	Fig.19
48	16QAM	3625	55990	15	75	0	13.381	Fig.20
48	16QAM	3692.5	56665	15	75	0	13.360	Fig.21
48	16QAM	3560	55340	20	100	0	17.994	Fig.22
48	16QAM	3625	55990	20	100	0	17.940	Fig.23
48	16QAM	3690	56640	20	100	0	17.935	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
48	64QAM	3552.5	55265	5	25	0	4.465	Fig.25
48	64QAM	3625	55990	5	25	0	4.440	Fig.26
48	64QAM	3697.5	56715	5	25	0	4.436	Fig.27
48	64QAM	3555	55290	10	50	0	8.818	Fig.28
48	64QAM	3625	55990	10	50	0	8.856	Fig.29
48	64QAM	3695	56690	10	50	0	8.944	Fig.30
48	64QAM	3557.5	55315	15	75	0	13.317	Fig.31
48	64QAM	3625	55990	15	75	0	13.385	Fig.32
48	64QAM	3692.5	56665	15	75	0	13.392	Fig.33
48	64QAM	3560	55340	20	100	0	17.717	Fig.34
48	64QAM	3625	55990	20	100	0	17.807	Fig.35
48	64QAM	3690	56640	20	100	0	17.748	Fig.36

Test Mode: QPSK

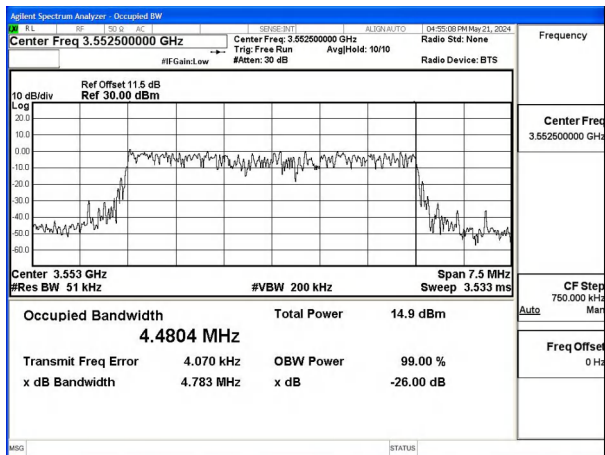


Fig.1

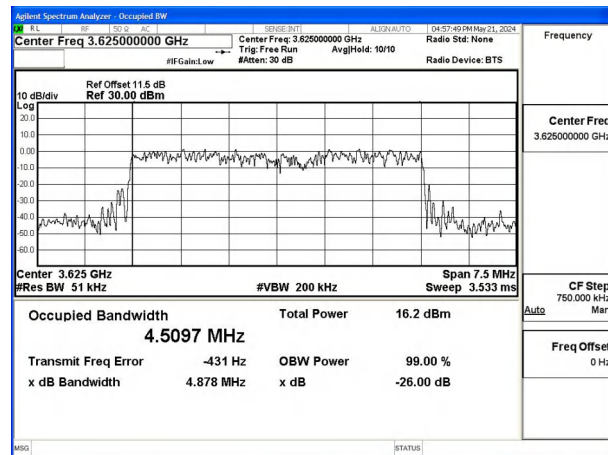


Fig.2

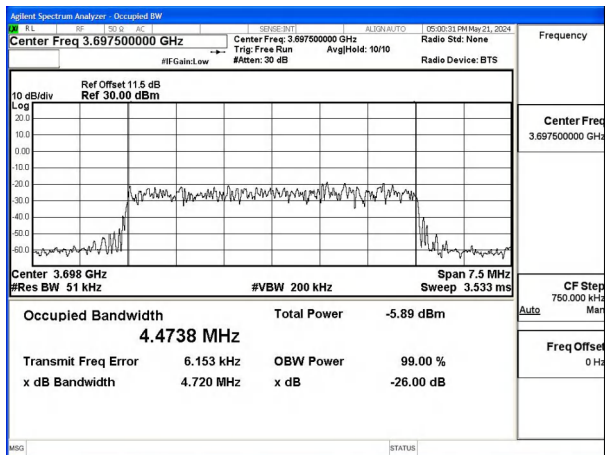


Fig.3

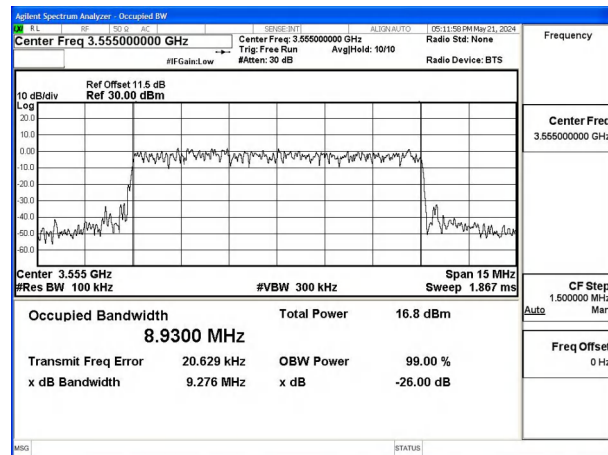


Fig.4

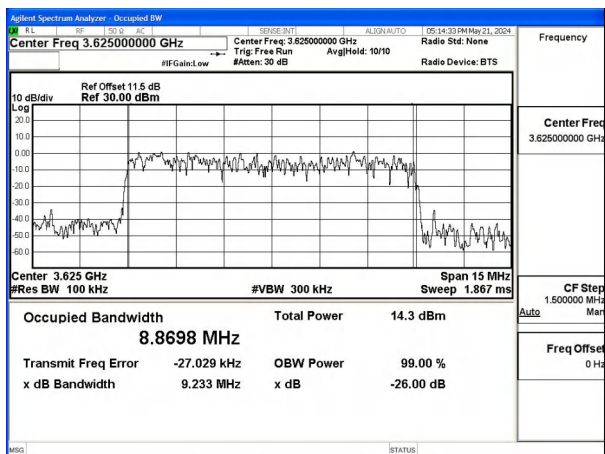


Fig.5

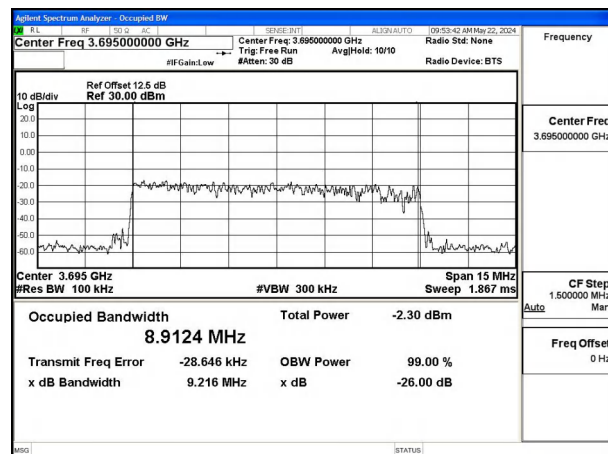


Fig.6

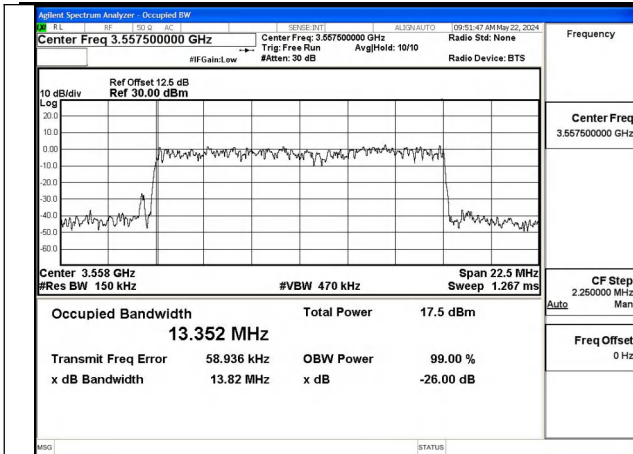


Fig.7

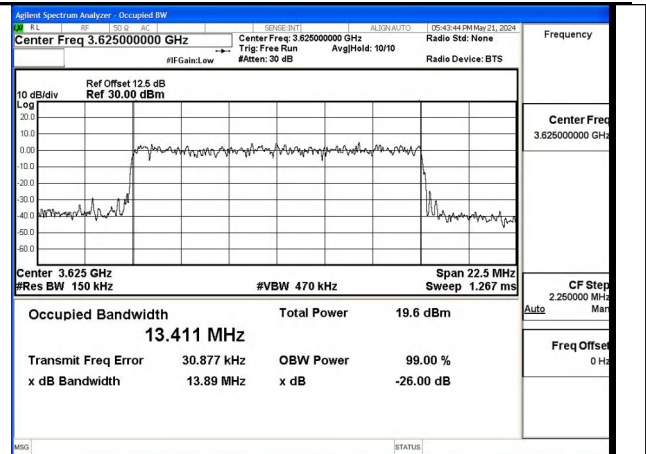


Fig.8

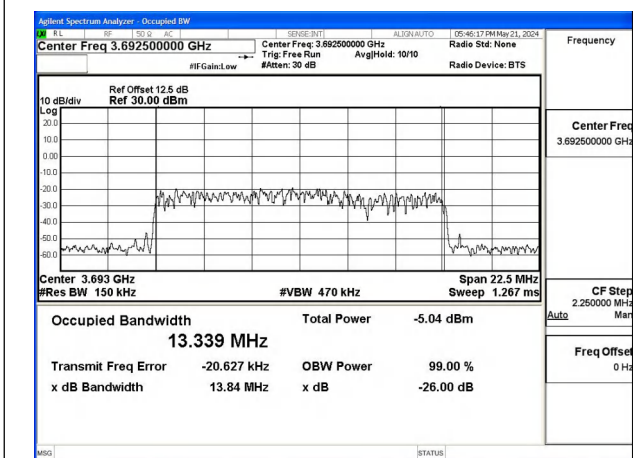


Fig.9

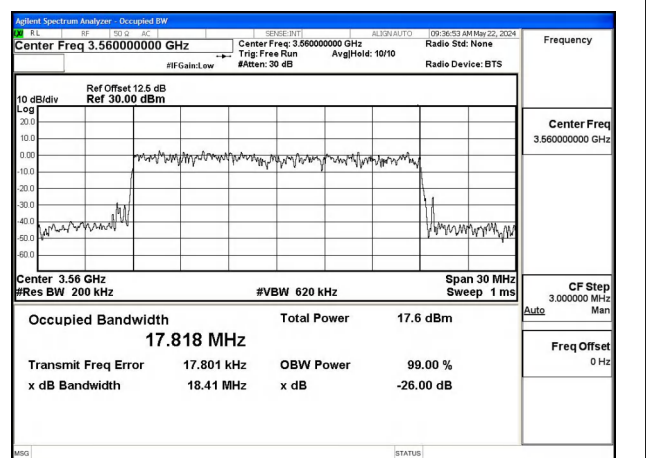


Fig.10

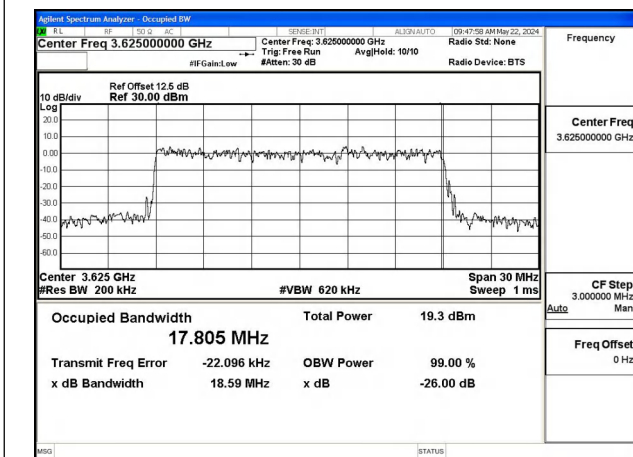


Fig.11

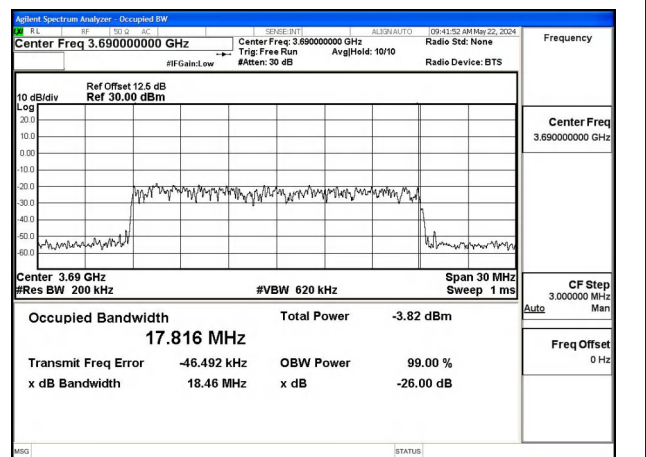


Fig.12

Test Mode: 16QAM

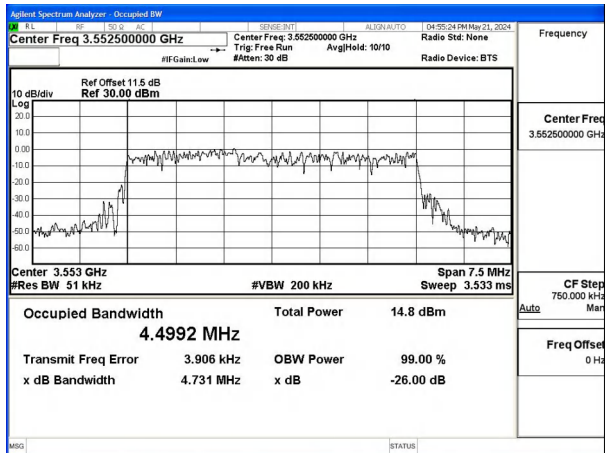


Fig.13

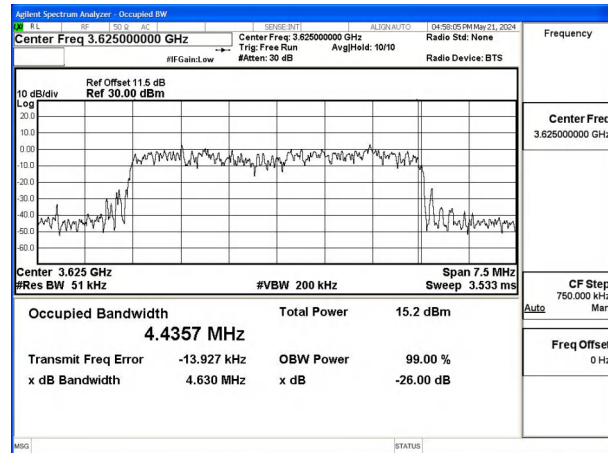


Fig.14

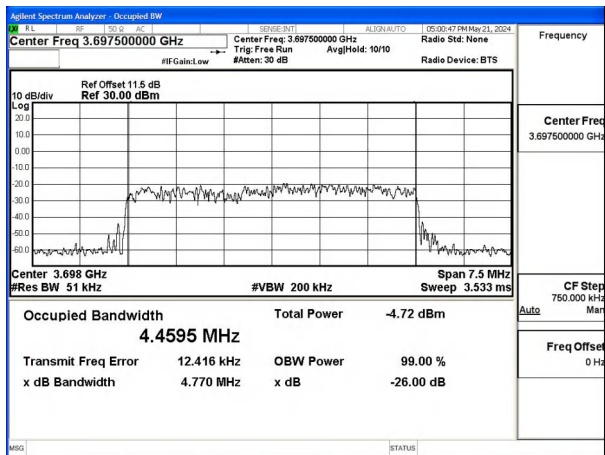


Fig.15

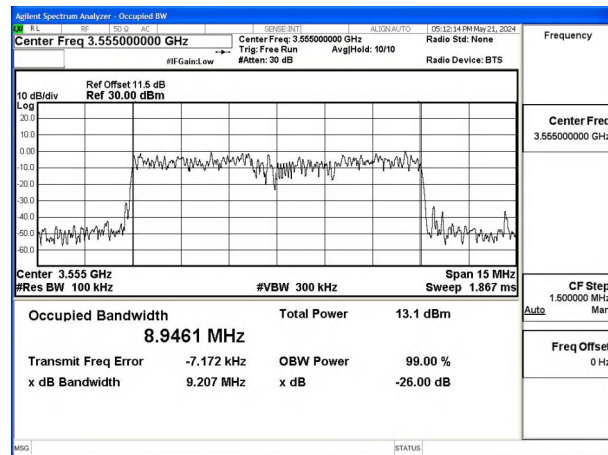


Fig.16

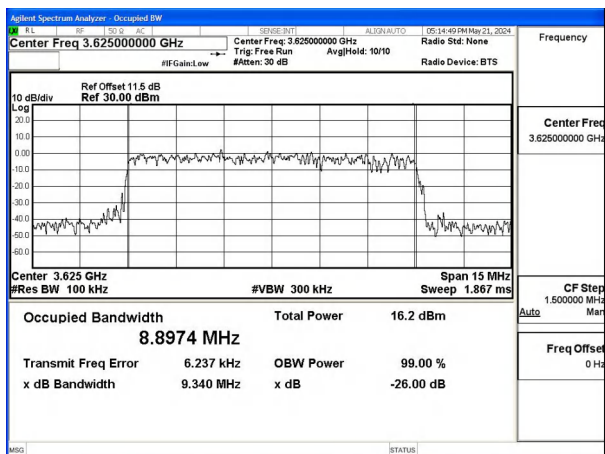


Fig.17

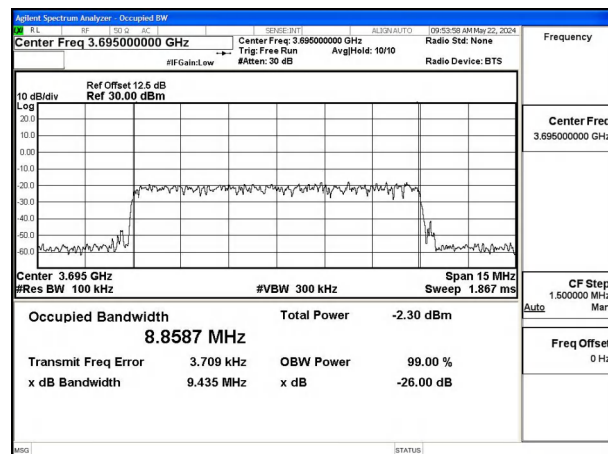


Fig.18

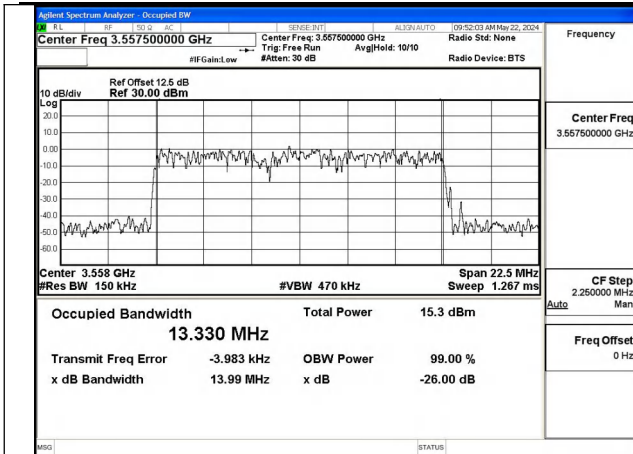


Fig.19

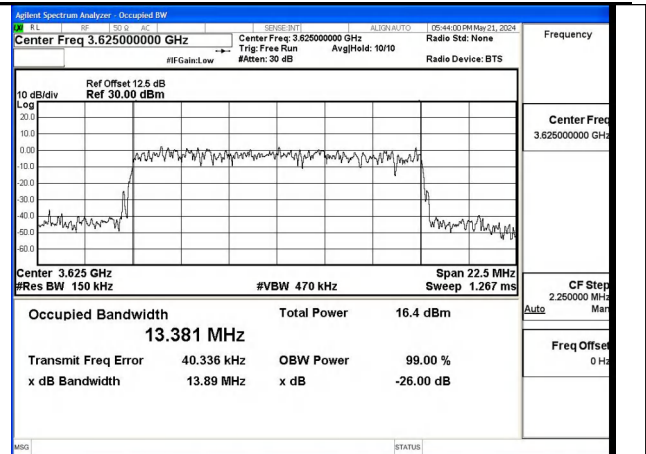


Fig.20

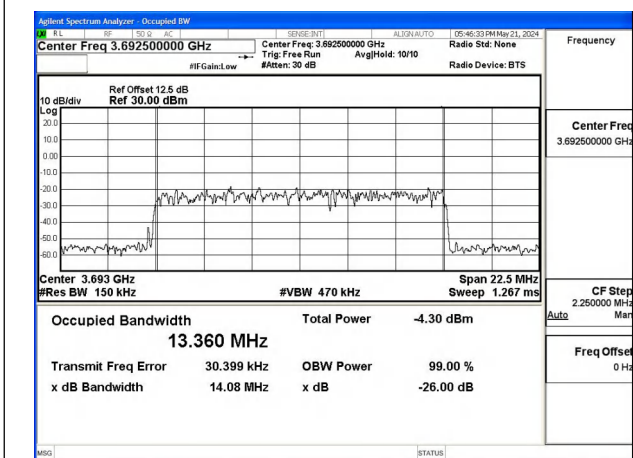


Fig.21

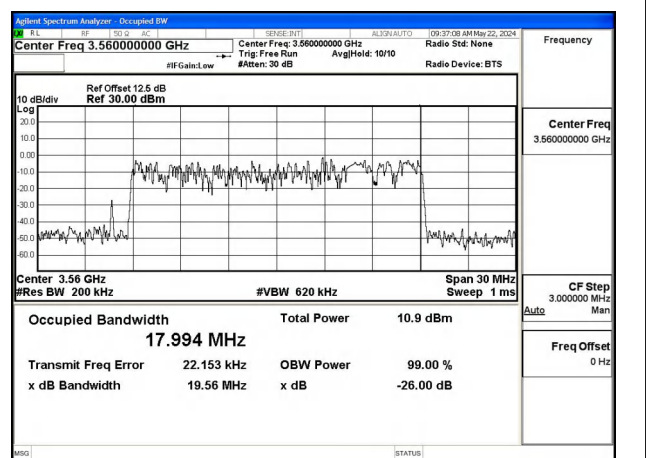


Fig.22

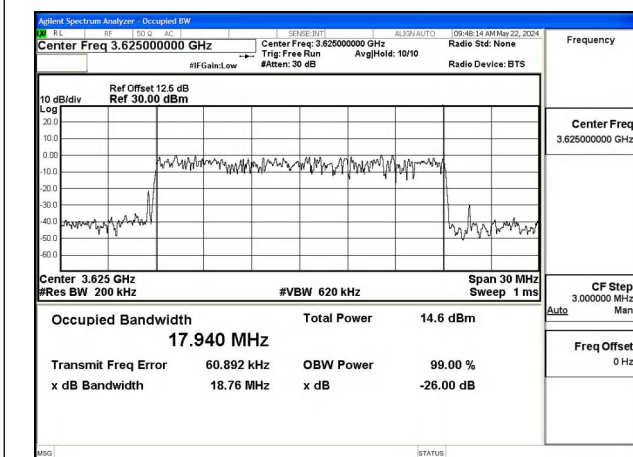


Fig.23

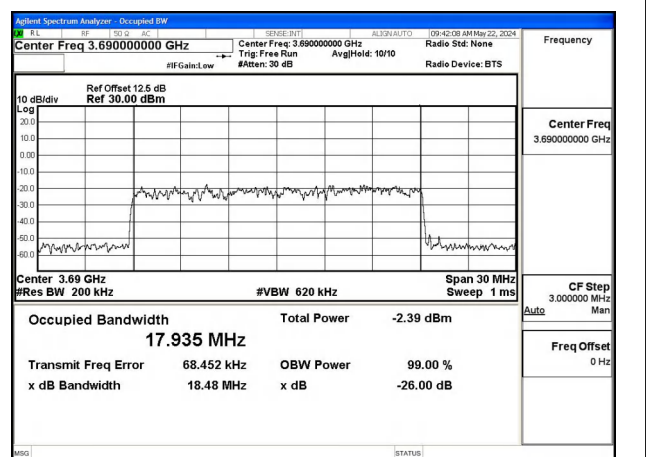


Fig.24

Test Mode: 64QAM

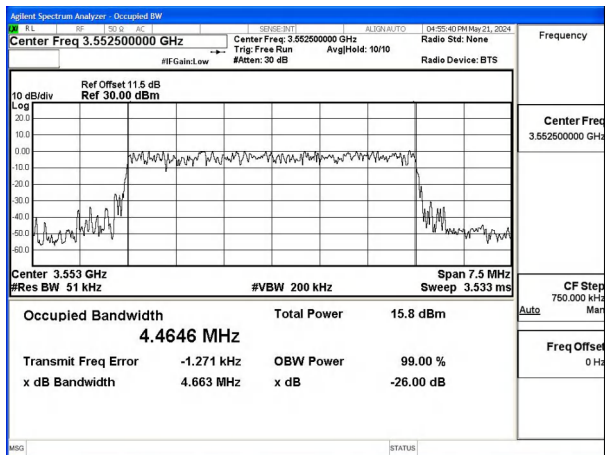


Fig.25

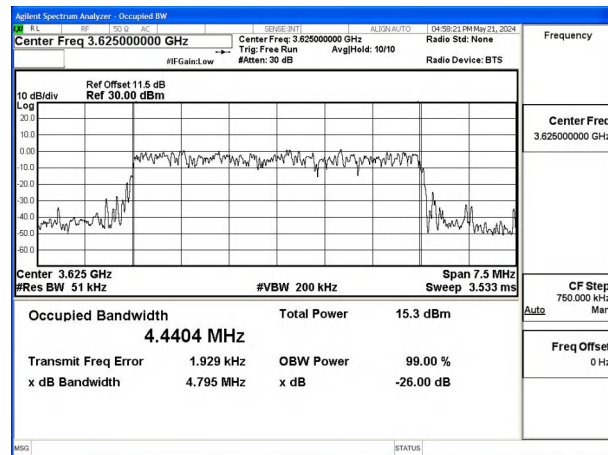


Fig.26

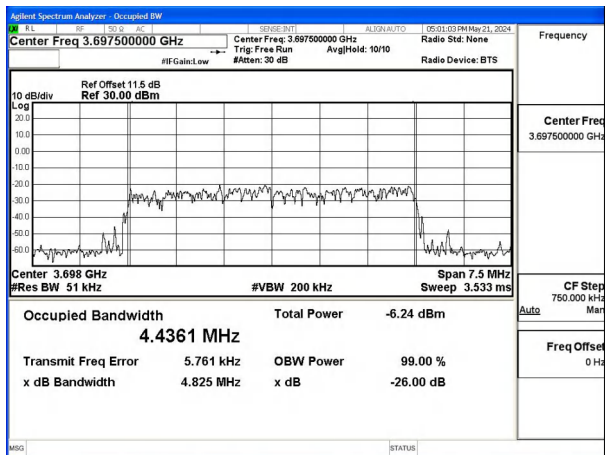


Fig.27

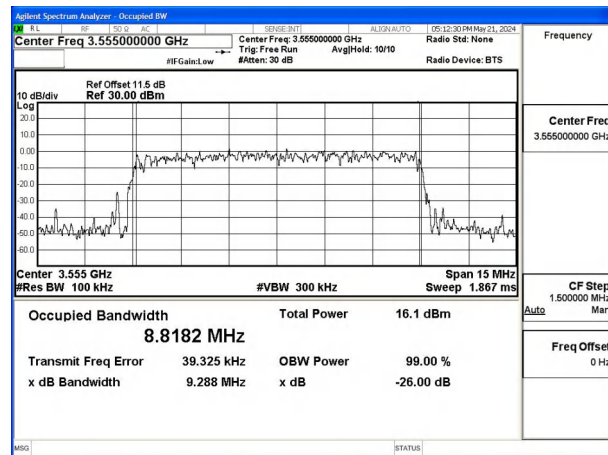


Fig.28

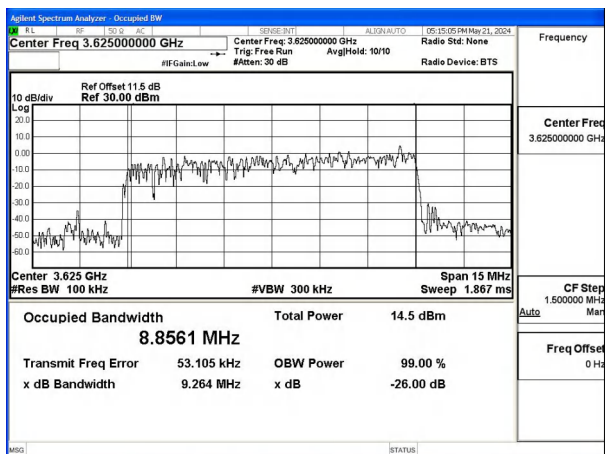


Fig.29

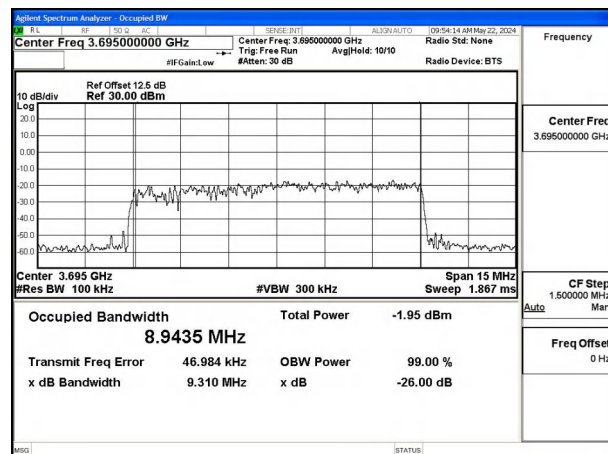


Fig.30

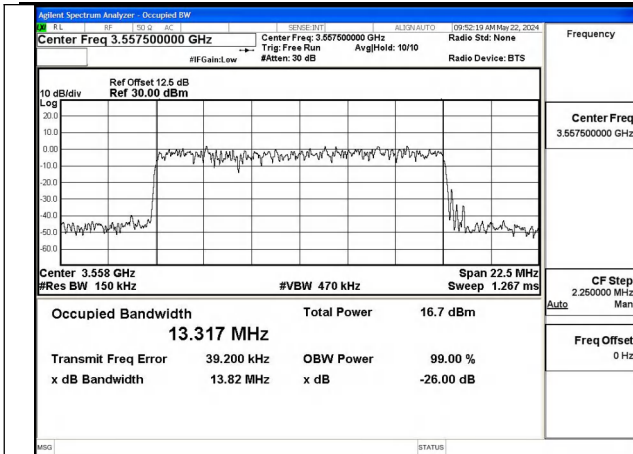


Fig.31

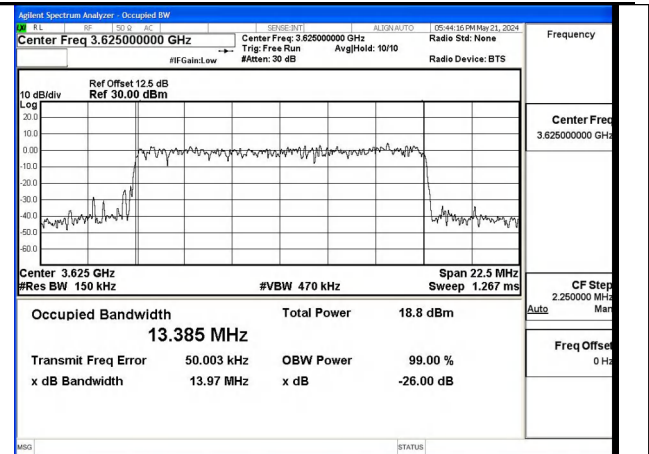


Fig.32

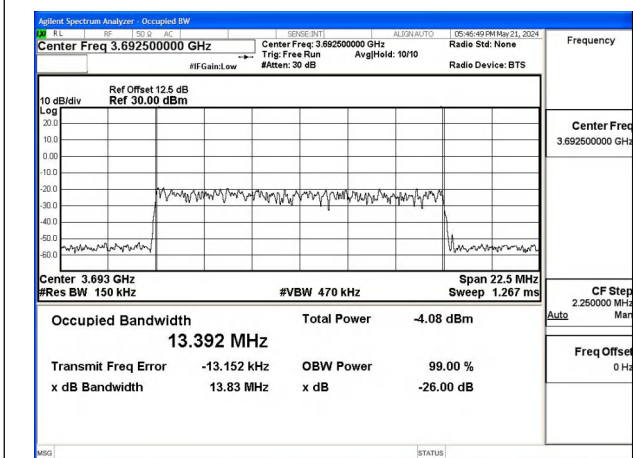


Fig.33

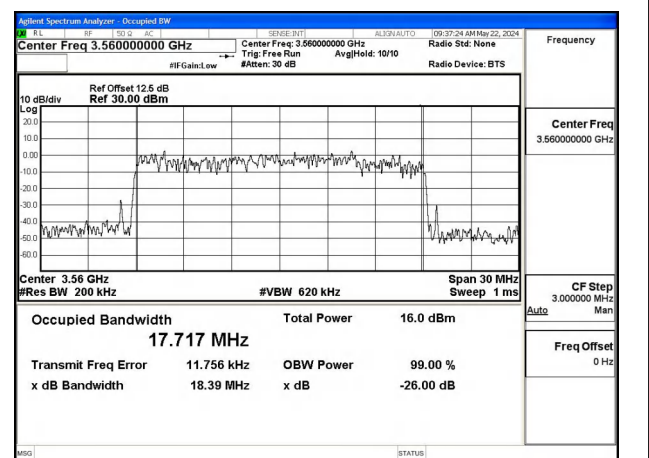


Fig.34

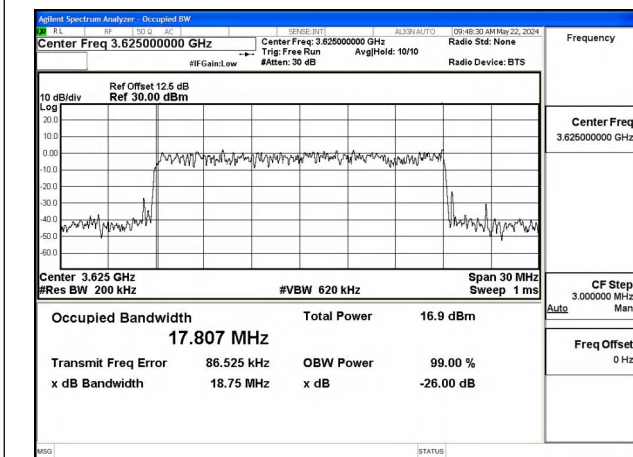


Fig.35

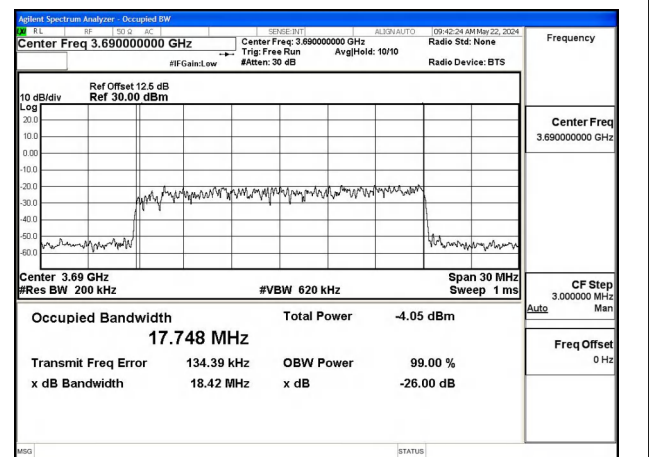


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
48	QPSK	3552.5	55265	5	25	0	4.783	Fig.1
48	QPSK	3625	55990	5	25	0	4.878	Fig.2
48	QPSK	3697.5	56715	5	25	0	4.720	Fig.3
48	QPSK	3555	55290	10	50	0	9.276	Fig.4
48	QPSK	3625	55990	10	50	0	9.233	Fig.5
48	QPSK	3695	56690	10	50	0	9.216	Fig.6
48	QPSK	3557.5	55315	15	75	0	13.818	Fig.7
48	QPSK	3625	55990	15	75	0	13.894	Fig.8
48	QPSK	3692.5	56665	15	75	0	13.836	Fig.9
48	QPSK	3560	55340	20	100	0	18.409	Fig.10
48	QPSK	3625	55990	20	100	0	18.586	Fig.11
48	QPSK	3690	56640	20	100	0	18.460	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
48	16QAM	3552.5	55265	5	25	0	4.731	Fig.13
48	16QAM	3625	55990	5	25	0	4.630	Fig.14
48	16QAM	3697.5	56715	5	25	0	4.770	Fig.15
48	16QAM	3555	55290	10	50	0	9.207	Fig.16
48	16QAM	3625	55990	10	50	0	9.340	Fig.17
48	16QAM	3695	56690	10	50	0	9.435	Fig.18
48	16QAM	3557.5	55315	15	75	0	13.988	Fig.19
48	16QAM	3625	55990	15	75	0	13.895	Fig.20
48	16QAM	3692.5	56665	15	75	0	14.083	Fig.21
48	16QAM	3560	55340	20	100	0	19.563	Fig.22
48	16QAM	3625	55990	20	100	0	18.757	Fig.23
48	16QAM	3690	56640	20	100	0	18.484	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
48	64QAM	3552.5	55265	5	25	0	4.663	Fig.25
48	64QAM	3625	55990	5	25	0	4.795	Fig.26
48	64QAM	3697.5	56715	5	25	0	4.825	Fig.27
48	64QAM	3555	55290	10	50	0	9.288	Fig.28
48	64QAM	3625	55990	10	50	0	9.264	Fig.29
48	64QAM	3695	56690	10	50	0	9.310	Fig.30
48	64QAM	3557.5	55315	15	75	0	13.818	Fig.31
48	64QAM	3625	55990	15	75	0	13.974	Fig.32
48	64QAM	3692.5	56665	15	75	0	13.828	Fig.33
48	64QAM	3560	55340	20	100	0	18.389	Fig.34
48	64QAM	3625	55990	20	100	0	18.746	Fig.35
48	64QAM	3690	56640	20	100	0	18.415	Fig.36

Test Mode: QPSK

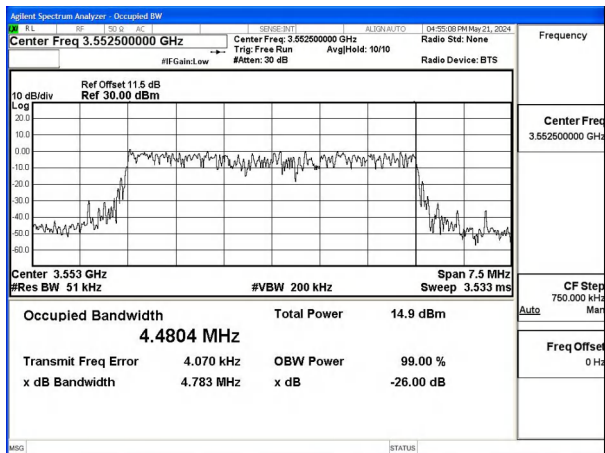


Fig.1

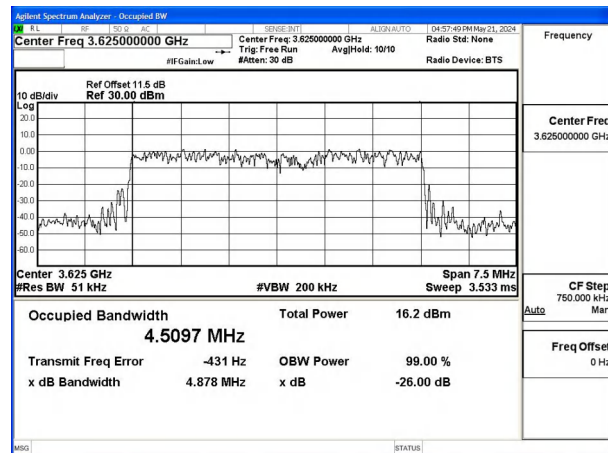


Fig.2

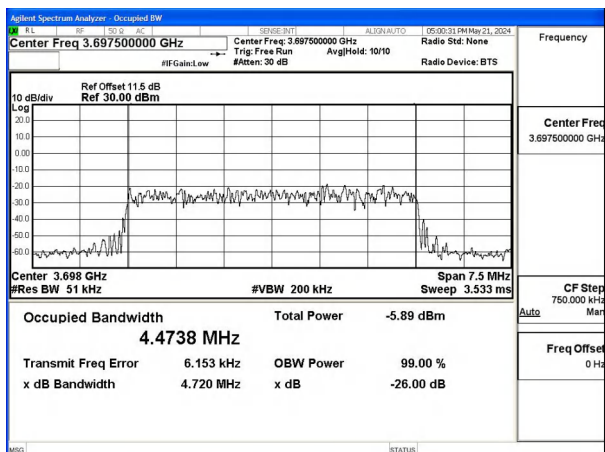


Fig.3

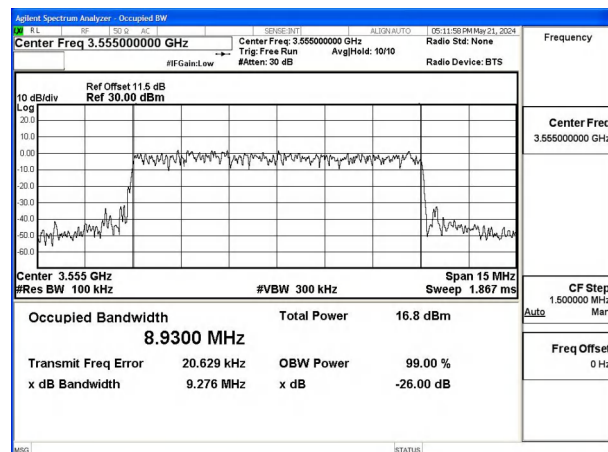


Fig.4

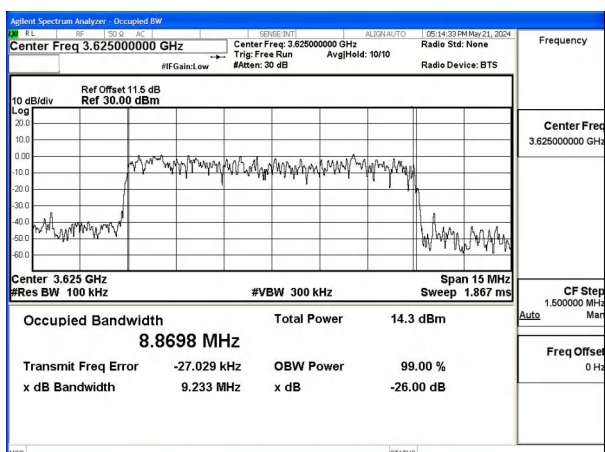


Fig.5

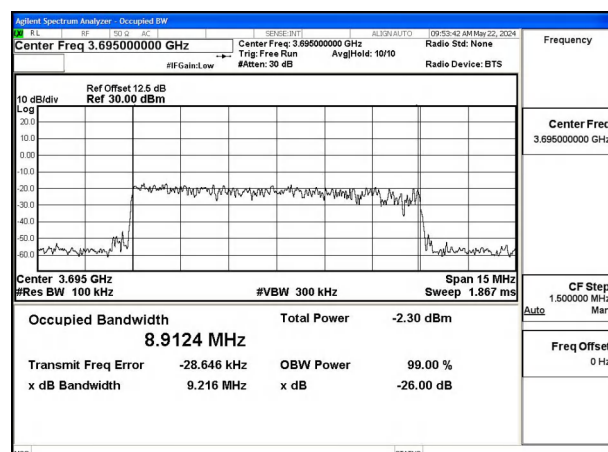


Fig.6

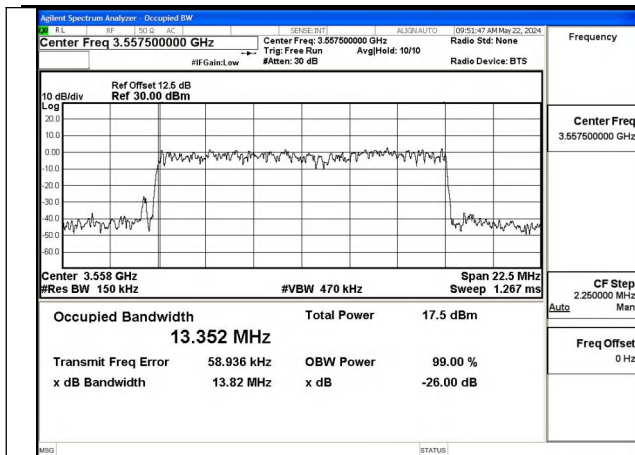


Fig.7

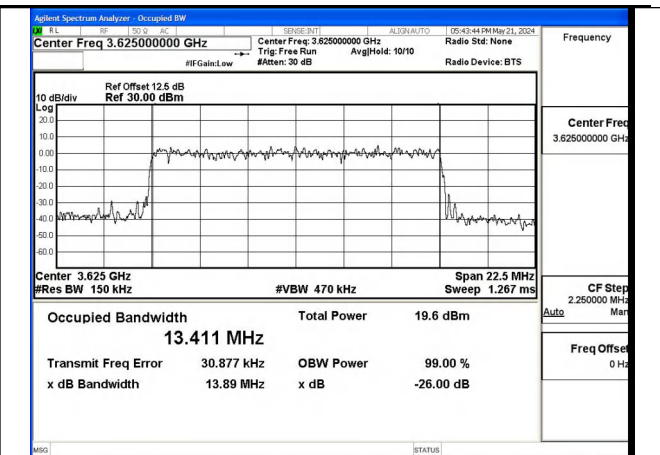


Fig.8

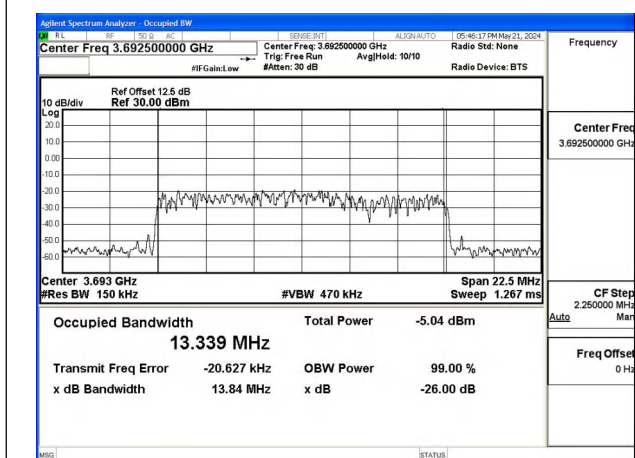


Fig.9

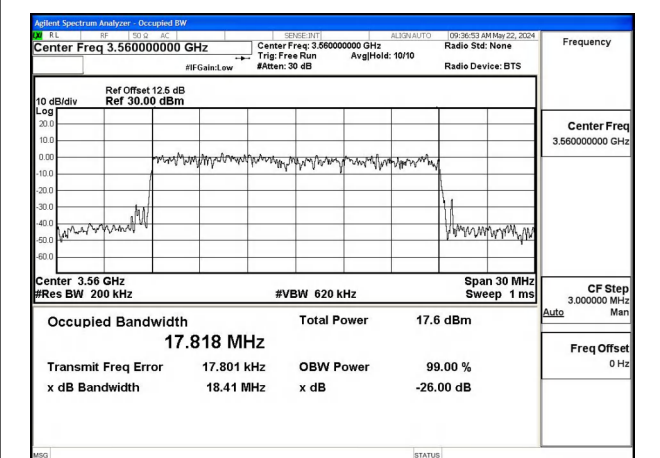


Fig.10

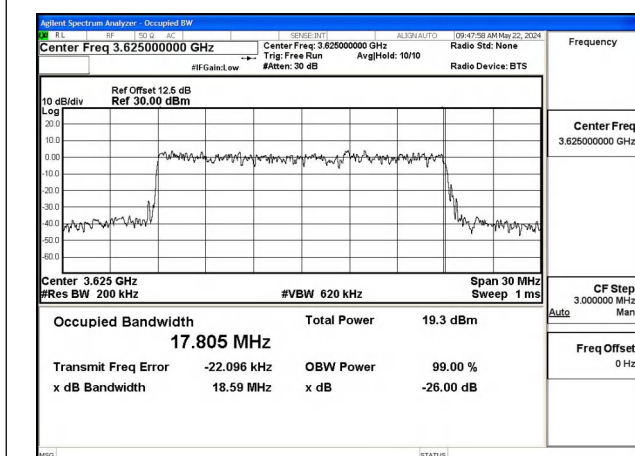


Fig.11

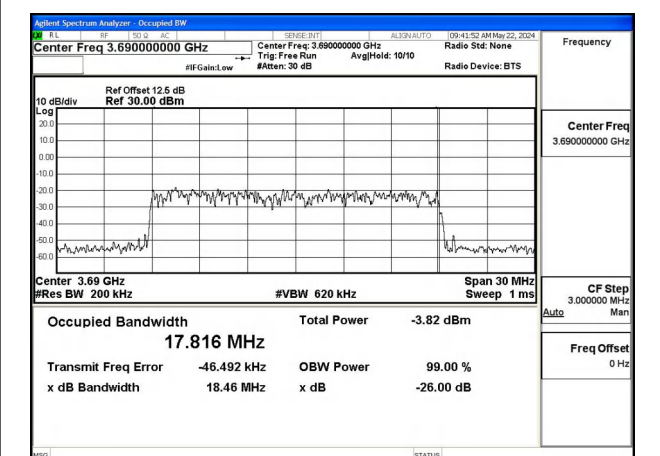


Fig.12

Test Mode: 16QAM

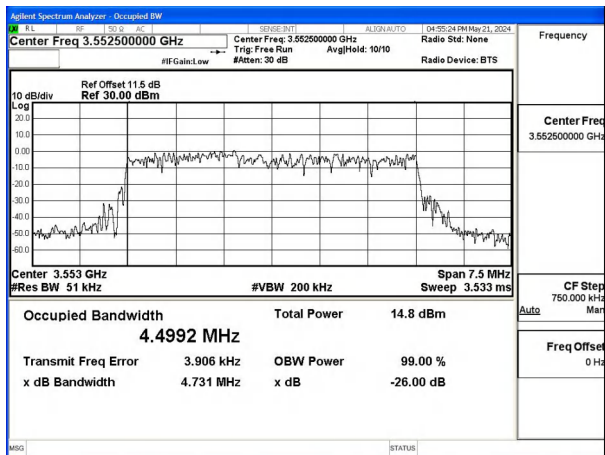


Fig.13

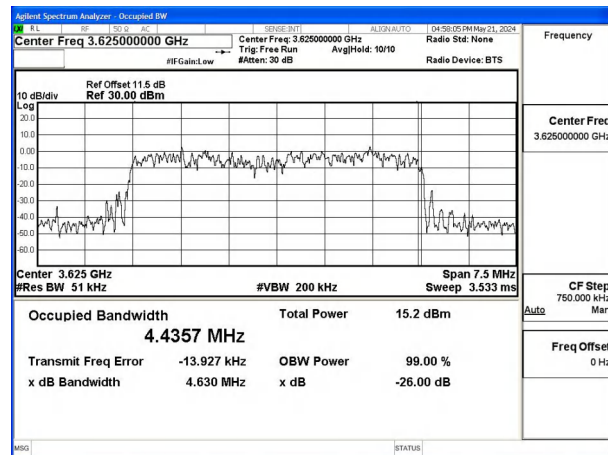


Fig.14

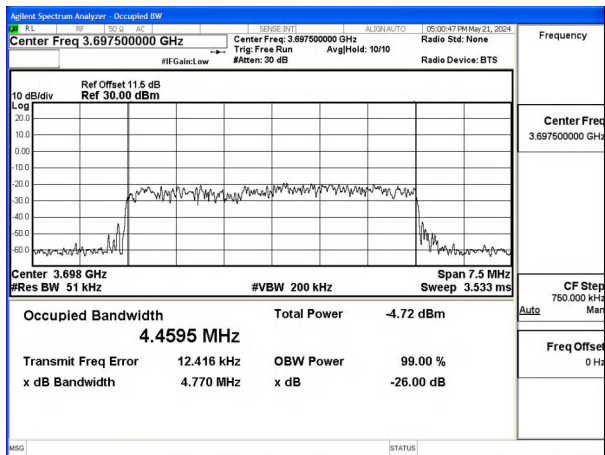


Fig.15

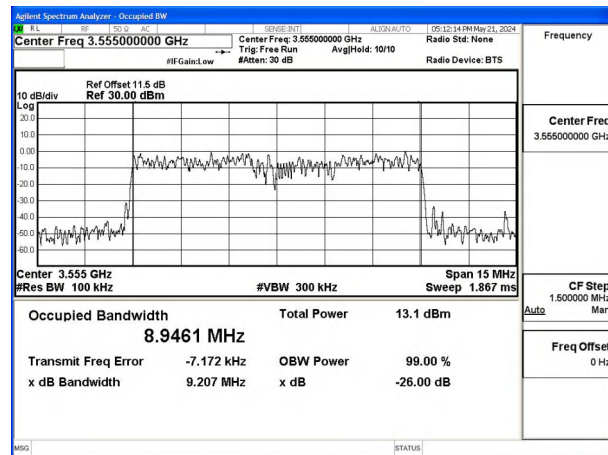


Fig.16

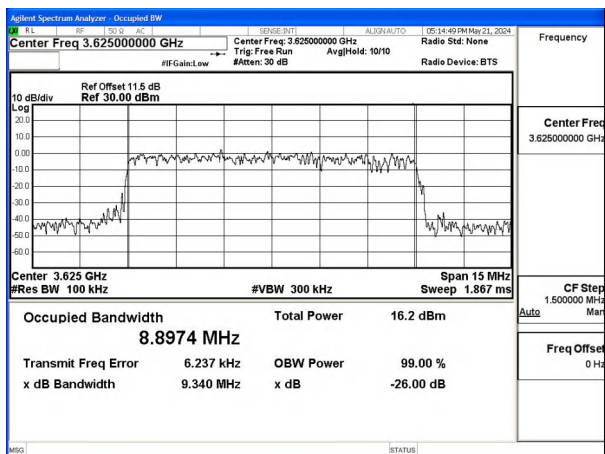


Fig.17

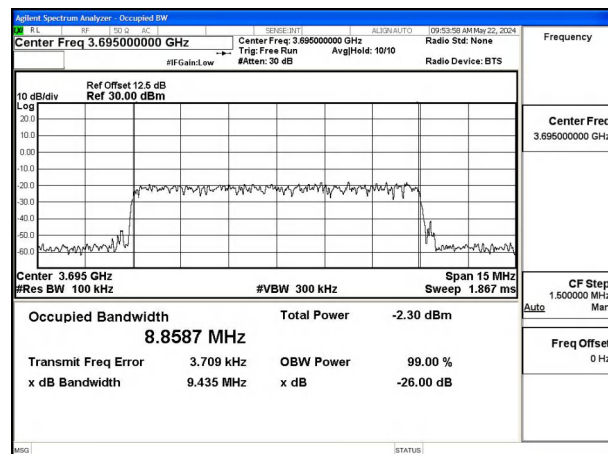


Fig.18

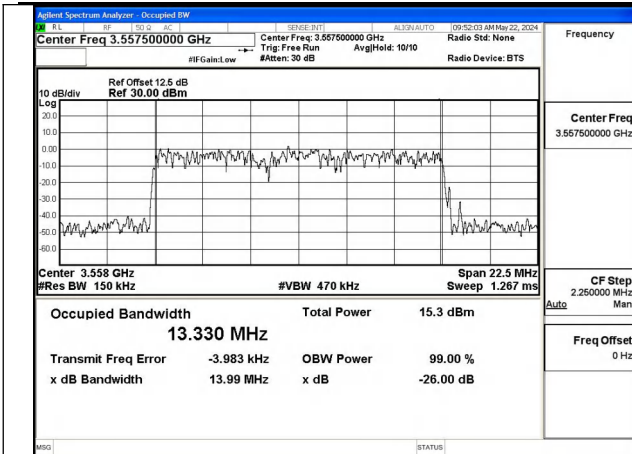


Fig.19

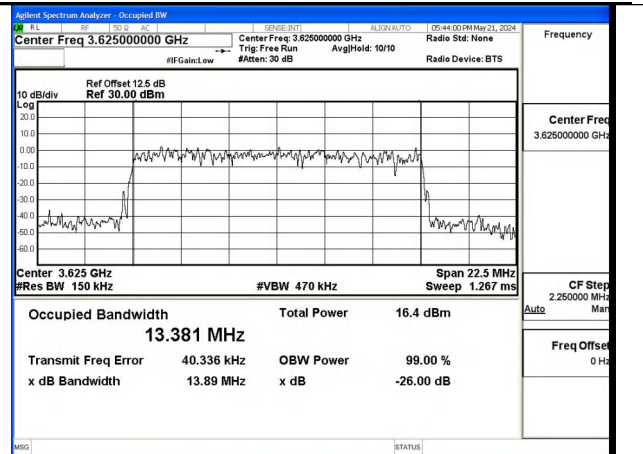


Fig.20

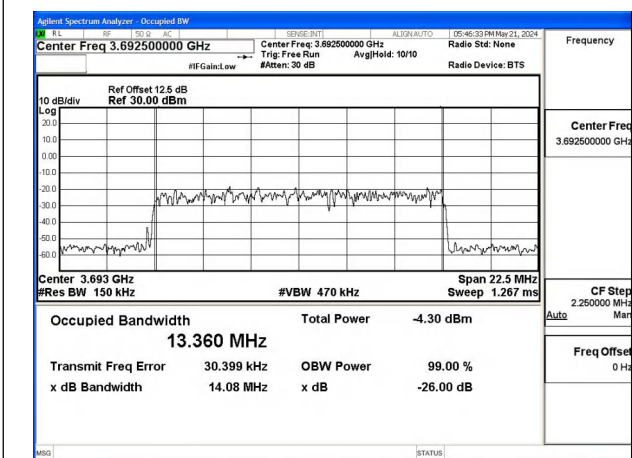


Fig.21

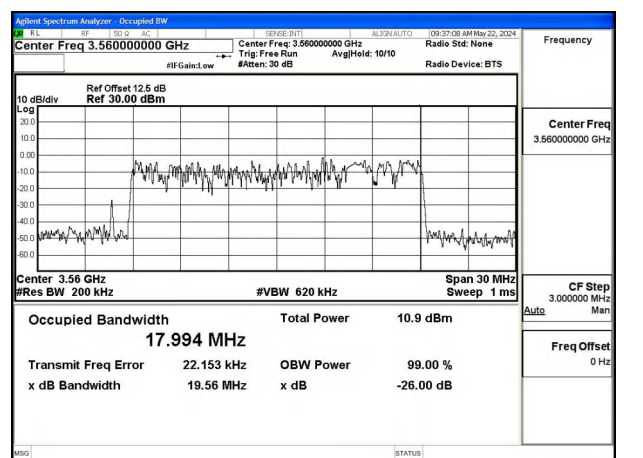


Fig.22

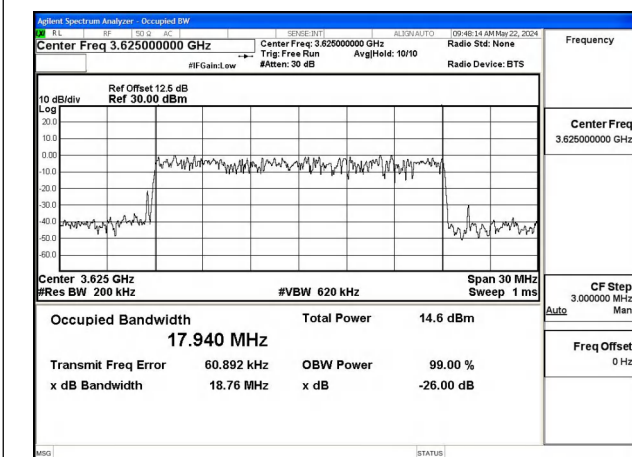


Fig.23

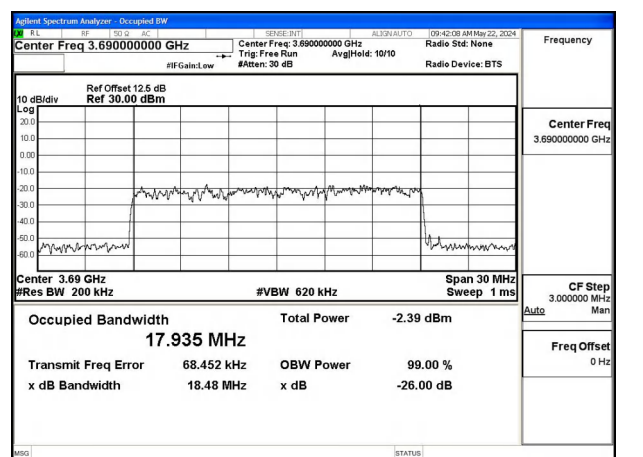


Fig.24

Test Mode: 64QAM

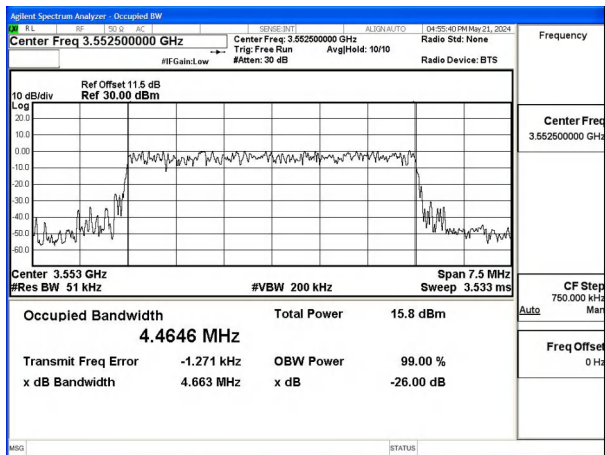


Fig.25

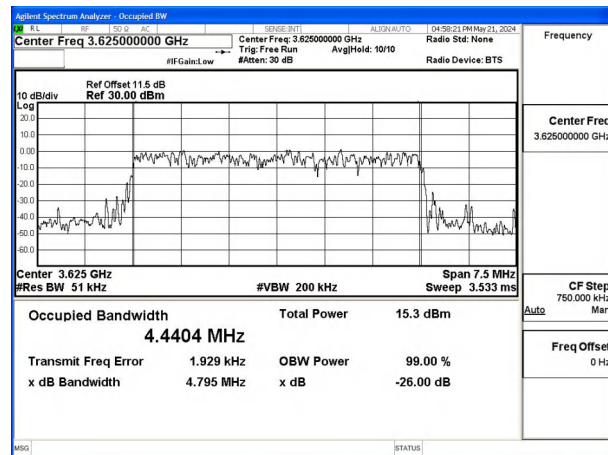


Fig.26

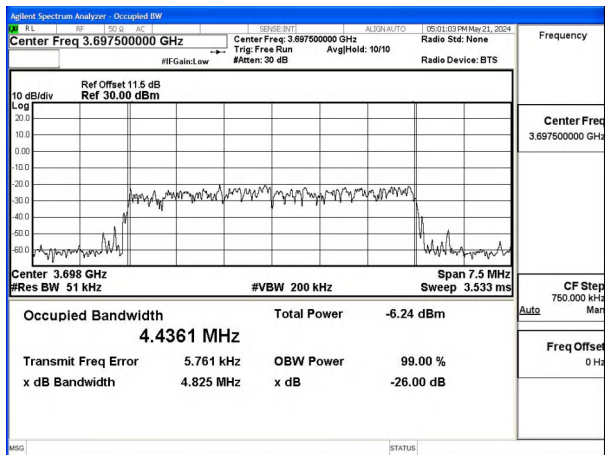


Fig.27

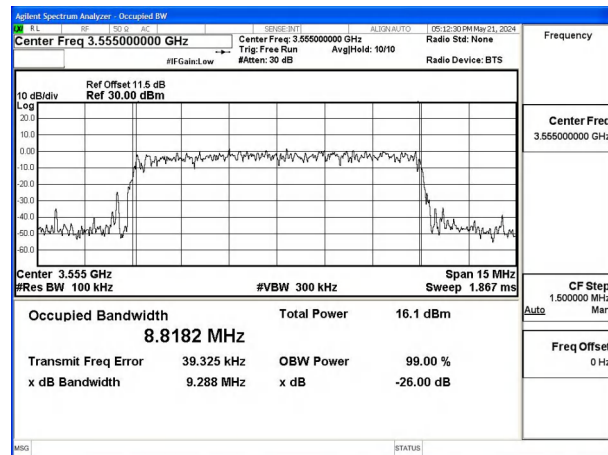


Fig.28

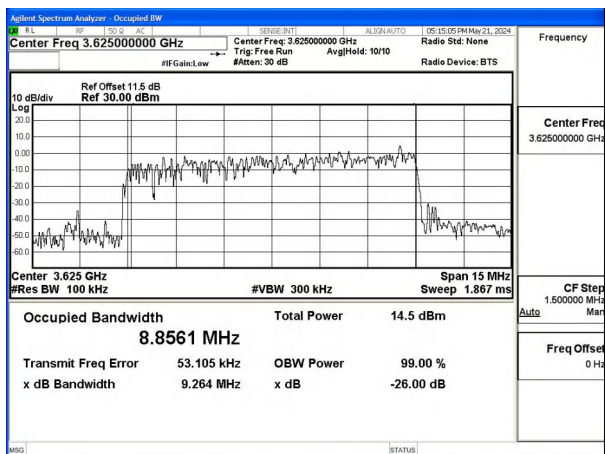


Fig.29

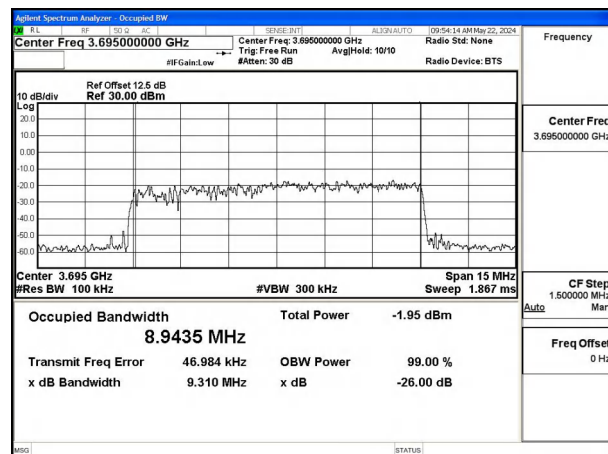


Fig.30