

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 41

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2498.5	39675	5	1	0	21.93
QPSK	2498.5	39675	5	1	12	21.95
QPSK	2498.5	39675	5	1	24	21.84
QPSK	2498.5	39675	5	12	0	21.10
QPSK	2498.5	39675	5	12	7	21.08
QPSK	2498.5	39675	5	12	13	21.08
QPSK	2498.5	39675	5	25	0	21.04
QPSK	2593	40620	5	1	0	22.18
QPSK	2593	40620	5	1	12	22.27
QPSK	2593	40620	5	1	24	22.06
QPSK	2593	40620	5	12	0	21.24
QPSK	2593	40620	5	12	7	21.26
QPSK	2593	40620	5	12	13	21.20
QPSK	2593	40620	5	25	0	21.26
QPSK	2687.5	41565	5	1	0	22.51
QPSK	2687.5	41565	5	1	12	22.60
QPSK	2687.5	41565	5	1	24	22.48
QPSK	2687.5	41565	5	12	0	21.67
QPSK	2687.5	41565	5	12	7	21.66
QPSK	2687.5	41565	5	12	13	21.65
QPSK	2687.5	41565	5	25	0	21.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2498.5	39675	5	1	0	21.06
16QAM	2498.5	39675	5	1	12	21.08
16QAM	2498.5	39675	5	1	24	21.00
16QAM	2498.5	39675	5	12	0	20.11
16QAM	2498.5	39675	5	12	7	20.05
16QAM	2498.5	39675	5	12	13	20.06
16QAM	2498.5	39675	5	25	0	20.07
16QAM	2593	40620	5	1	0	21.27
16QAM	2593	40620	5	1	12	21.44
16QAM	2593	40620	5	1	24	21.36
16QAM	2593	40620	5	12	0	20.36
16QAM	2593	40620	5	12	7	20.33
16QAM	2593	40620	5	12	13	20.30
16QAM	2593	40620	5	25	0	20.26
16QAM	2687.5	41565	5	1	0	21.66
16QAM	2687.5	41565	5	1	12	21.84
16QAM	2687.5	41565	5	1	24	21.75
16QAM	2687.5	41565	5	12	0	20.73
16QAM	2687.5	41565	5	12	7	20.75
16QAM	2687.5	41565	5	12	13	20.68
16QAM	2687.5	41565	5	25	0	20.77
64QAM	2498.5	39675	5	1	0	19.88
64QAM	2498.5	39675	5	1	12	19.95
64QAM	2498.5	39675	5	1	24	19.87
64QAM	2498.5	39675	5	12	0	19.14
64QAM	2498.5	39675	5	12	7	19.26
64QAM	2498.5	39675	5	12	13	19.21
64QAM	2498.5	39675	5	25	0	19.20
64QAM	2593	40620	5	1	0	20.22
64QAM	2593	40620	5	1	12	20.32
64QAM	2593	40620	5	1	24	20.20
64QAM	2593	40620	5	12	0	19.29
64QAM	2593	40620	5	12	7	19.38
64QAM	2593	40620	5	12	13	19.36
64QAM	2593	40620	5	25	0	19.43
64QAM	2687.5	41565	5	1	0	20.59
64QAM	2687.5	41565	5	1	12	20.66
64QAM	2687.5	41565	5	1	24	20.63
64QAM	2687.5	41565	5	12	0	19.86
64QAM	2687.5	41565	5	12	7	19.74
64QAM	2687.5	41565	5	12	13	19.69
64QAM	2687.5	41565	5	25	0	19.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2501	39700	10	1	0	21.93
QPSK	2501	39700	10	1	25	21.92
QPSK	2501	39700	10	1	49	21.85
QPSK	2501	39700	10	25	0	21.02
QPSK	2501	39700	10	25	12	21.06
QPSK	2501	39700	10	25	25	21.04
QPSK	2501	39700	10	50	0	21.08
QPSK	2593	40620	10	1	0	22.27
QPSK	2593	40620	10	1	25	22.31
QPSK	2593	40620	10	1	49	22.22
QPSK	2593	40620	10	25	0	21.34
QPSK	2593	40620	10	25	12	21.36
QPSK	2593	40620	10	25	25	21.27
QPSK	2593	40620	10	50	0	21.32
QPSK	2685	41540	10	1	0	22.46
QPSK	2685	41540	10	1	25	22.62
QPSK	2685	41540	10	1	49	22.60
QPSK	2685	41540	10	25	0	21.71
QPSK	2685	41540	10	25	12	21.61
QPSK	2685	41540	10	25	25	21.58
QPSK	2685	41540	10	50	0	21.63

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2501	39700	10	1	0	21.19
16QAM	2501	39700	10	1	25	21.17
16QAM	2501	39700	10	1	49	21.03
16QAM	2501	39700	10	25	0	20.15
16QAM	2501	39700	10	25	12	20.07
16QAM	2501	39700	10	25	25	20.18
16QAM	2501	39700	10	50	0	20.13
16QAM	2593	40620	10	1	0	21.52
16QAM	2593	40620	10	1	25	21.55
16QAM	2593	40620	10	1	49	21.44
16QAM	2593	40620	10	25	0	20.43
16QAM	2593	40620	10	25	12	20.39
16QAM	2593	40620	10	25	25	20.38
16QAM	2593	40620	10	50	0	20.39
16QAM	2685	41540	10	1	0	21.71
16QAM	2685	41540	10	1	25	21.88
16QAM	2685	41540	10	1	49	21.75
16QAM	2685	41540	10	25	0	20.77
16QAM	2685	41540	10	25	12	20.83
16QAM	2685	41540	10	25	25	20.76
16QAM	2685	41540	10	50	0	20.79
64QAM	2501	39700	10	1	0	20.04
64QAM	2501	39700	10	1	25	20.04
64QAM	2501	39700	10	1	49	19.93
64QAM	2501	39700	10	25	0	19.16
64QAM	2501	39700	10	25	12	19.25
64QAM	2501	39700	10	25	25	19.18
64QAM	2501	39700	10	50	0	19.15
64QAM	2593	40620	10	1	0	20.21
64QAM	2593	40620	10	1	25	20.44
64QAM	2593	40620	10	1	49	20.23
64QAM	2593	40620	10	25	0	19.47
64QAM	2593	40620	10	25	12	19.52
64QAM	2593	40620	10	25	25	19.45
64QAM	2593	40620	10	50	0	19.42
64QAM	2685	41540	10	1	0	20.55
64QAM	2685	41540	10	1	25	20.79
64QAM	2685	41540	10	1	49	20.60
64QAM	2685	41540	10	25	0	19.85
64QAM	2685	41540	10	25	12	19.82
64QAM	2685	41540	10	25	25	19.75
64QAM	2685	41540	10	50	0	19.76

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2503.5	39725	15	1	0	21.89
QPSK	2503.5	39725	15	1	37	21.94
QPSK	2503.5	39725	15	1	74	21.84
QPSK	2503.5	39725	15	36	0	21.03
QPSK	2503.5	39725	15	36	29	21.02
QPSK	2503.5	39725	15	36	30	20.96
QPSK	2503.5	39725	15	75	0	20.99
QPSK	2593	40620	15	1	0	22.22
QPSK	2593	40620	15	1	37	22.27
QPSK	2593	40620	15	1	74	22.26
QPSK	2593	40620	15	36	0	21.24
QPSK	2593	40620	15	36	29	21.21
QPSK	2593	40620	15	36	30	21.24
QPSK	2593	40620	15	75	0	21.20
QPSK	2682.5	41515	15	1	0	22.40
QPSK	2682.5	41515	15	1	37	22.60
QPSK	2682.5	41515	15	1	74	22.50
QPSK	2682.5	41515	15	36	0	21.55
QPSK	2682.5	41515	15	36	29	21.59
QPSK	2682.5	41515	15	36	30	21.61
QPSK	2682.5	41515	15	75	0	21.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2503.5	39725	15	1	0	21.06
16QAM	2503.5	39725	15	1	37	21.06
16QAM	2503.5	39725	15	1	74	20.97
16QAM	2503.5	39725	15	36	0	19.90
16QAM	2503.5	39725	15	36	29	19.98
16QAM	2503.5	39725	15	36	30	20.01
16QAM	2503.5	39725	15	75	0	20.01
16QAM	2593	40620	15	1	0	21.37
16QAM	2593	40620	15	1	37	21.53
16QAM	2593	40620	15	1	74	21.41
16QAM	2593	40620	15	36	0	20.30
16QAM	2593	40620	15	36	29	20.31
16QAM	2593	40620	15	36	30	20.29
16QAM	2593	40620	15	75	0	20.24
16QAM	2682.5	41515	15	1	0	21.60
16QAM	2682.5	41515	15	1	37	21.80
16QAM	2682.5	41515	15	1	74	21.76
16QAM	2682.5	41515	15	36	0	20.63
16QAM	2682.5	41515	15	36	29	20.61
16QAM	2682.5	41515	15	36	30	20.62
16QAM	2682.5	41515	15	75	0	20.61
64QAM	2503.5	39725	15	1	0	20.03
64QAM	2503.5	39725	15	1	37	19.98
64QAM	2503.5	39725	15	1	74	19.90
64QAM	2503.5	39725	15	36	0	19.07
64QAM	2503.5	39725	15	36	29	19.16
64QAM	2503.5	39725	15	36	30	19.06
64QAM	2503.5	39725	15	75	0	19.16
64QAM	2593	40620	15	1	0	20.14
64QAM	2593	40620	15	1	37	20.34
64QAM	2593	40620	15	1	74	20.24
64QAM	2593	40620	15	36	0	19.24
64QAM	2593	40620	15	36	29	19.28
64QAM	2593	40620	15	36	30	19.27
64QAM	2593	40620	15	75	0	19.35
64QAM	2682.5	41515	15	1	0	20.42
64QAM	2682.5	41515	15	1	37	20.65
64QAM	2682.5	41515	15	1	74	20.60
64QAM	2682.5	41515	15	36	0	19.57
64QAM	2682.5	41515	15	36	29	19.62
64QAM	2682.5	41515	15	36	30	19.63
64QAM	2682.5	41515	15	75	0	19.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2506	39750	20	1	0	21.94
QPSK	2506	39750	20	1	49	21.96
QPSK	2506	39750	20	1	99	21.84
QPSK	2506	39750	20	50	0	21.04
QPSK	2506	39750	20	50	24	21.12
QPSK	2506	39750	20	50	50	20.94
QPSK	2506	39750	20	100	0	21.02
QPSK	2593	40620	20	1	0	22.20
QPSK	2593	40620	20	1	49	22.27
QPSK	2593	40620	20	1	99	22.17
QPSK	2593	40620	20	50	0	21.28
QPSK	2593	40620	20	50	24	21.13
QPSK	2593	40620	20	50	50	21.28
QPSK	2593	40620	20	100	0	21.22
QPSK	2680	41490	20	1	0	22.29
QPSK	2680	41490	20	1	49	22.54
QPSK	2680	41490	20	1	99	22.37
QPSK	2680	41490	20	50	0	21.48
QPSK	2680	41490	20	50	24	21.61
QPSK	2680	41490	20	50	50	21.47
QPSK	2680	41490	20	100	0	21.54

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2506	39750	20	1	0	21.04
16QAM	2506	39750	20	1	49	21.14
16QAM	2506	39750	20	1	99	21.15
16QAM	2506	39750	20	50	0	20.06
16QAM	2506	39750	20	50	24	20.13
16QAM	2506	39750	20	50	50	20.11
16QAM	2506	39750	20	100	0	19.97
16QAM	2593	40620	20	1	0	21.37
16QAM	2593	40620	20	1	49	21.53
16QAM	2593	40620	20	1	99	21.33
16QAM	2593	40620	20	50	0	20.33
16QAM	2593	40620	20	50	24	20.31
16QAM	2593	40620	20	50	50	20.35
16QAM	2593	40620	20	100	0	20.38
16QAM	2680	41490	20	1	0	21.45
16QAM	2680	41490	20	1	49	21.76
16QAM	2680	41490	20	1	99	21.61
16QAM	2680	41490	20	50	0	20.60
16QAM	2680	41490	20	50	24	20.62
16QAM	2680	41490	20	50	50	20.60
16QAM	2680	41490	20	100	0	20.57
64QAM	2506	39750	20	1	0	19.91
64QAM	2506	39750	20	1	49	20.01
64QAM	2506	39750	20	1	99	19.88
64QAM	2506	39750	20	50	0	19.11
64QAM	2506	39750	20	50	24	19.17
64QAM	2506	39750	20	50	50	19.06
64QAM	2506	39750	20	100	0	19.09
64QAM	2593	40620	20	1	0	20.20
64QAM	2593	40620	20	1	49	20.35
64QAM	2593	40620	20	1	99	20.19
64QAM	2593	40620	20	50	0	19.39
64QAM	2593	40620	20	50	24	19.36
64QAM	2593	40620	20	50	50	19.25
64QAM	2593	40620	20	100	0	19.37
64QAM	2680	41490	20	1	0	20.31
64QAM	2680	41490	20	1	49	20.62
64QAM	2680	41490	20	1	99	20.55
64QAM	2680	41490	20	50	0	19.52
64QAM	2680	41490	20	50	24	19.67
64QAM	2680	41490	20	50	50	19.52
64QAM	2680	41490	20	100	0	19.56

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
41	QPSK	2498.5	39675	5	25	0	4.470	Fig.1
41	QPSK	2593	40620	5	25	0	4.440	Fig.2
41	QPSK	2687.5	41565	5	25	0	4.470	Fig.3
41	QPSK	2501	39700	10	50	0	8.910	Fig.4
41	QPSK	2593	40620	10	50	0	8.850	Fig.5
41	QPSK	2685	41540	10	50	0	8.910	Fig.6
41	QPSK	2503.5	39725	15	75	0	13.390	Fig.7
41	QPSK	2593	40620	15	75	0	13.350	Fig.8
41	QPSK	2682.5	41515	15	75	0	13.380	Fig.9
41	QPSK	2506	39750	20	100	0	17.860	Fig.10
41	QPSK	2593	40620	20	100	0	17.810	Fig.11
41	QPSK	2680	41490	20	100	0	17.790	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
41	16QAM	2498.5	39675	5	25	0	4.460	Fig.13
41	16QAM	2593	40620	5	25	0	4.430	Fig.14
41	16QAM	2687.5	41565	5	25	0	4.470	Fig.15
41	16QAM	2501	39700	10	50	0	8.900	Fig.16
41	16QAM	2593	40620	10	50	0	8.950	Fig.17
41	16QAM	2685	41540	10	50	0	8.910	Fig.18
41	16QAM	2503.5	39725	15	75	0	13.420	Fig.19
41	16QAM	2593	40620	15	75	0	13.360	Fig.20
41	16QAM	2682.5	41515	15	75	0	13.430	Fig.21
41	16QAM	2506	39750	20	100	0	17.720	Fig.22
41	16QAM	2593	40620	20	100	0	17.830	Fig.23
41	16QAM	2680	41490	20	100	0	17.810	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
41	64QAM	2498.5	39675	5	25	0	4.450	Fig.25
41	64QAM	2593	40620	5	25	0	4.430	Fig.26
41	64QAM	2687.5	41565	5	25	0	4.460	Fig.27
41	64QAM	2501	39700	10	50	0	8.900	Fig.28
41	64QAM	2593	40620	10	50	0	8.950	Fig.29
41	64QAM	2685	41540	10	50	0	8.940	Fig.30
41	64QAM	2503.5	39725	15	75	0	13.370	Fig.31
41	64QAM	2593	40620	15	75	0	13.330	Fig.32
41	64QAM	2682.5	41515	15	75	0	13.210	Fig.33
41	64QAM	2506	39750	20	100	0	17.460	Fig.34
41	64QAM	2593	40620	20	100	0	17.830	Fig.35
41	64QAM	2680	41490	20	100	0	17.680	Fig.36

Test Mode: QPSK

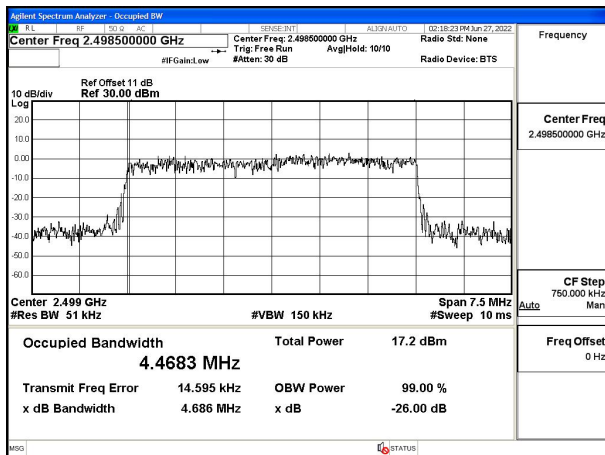


Fig.1

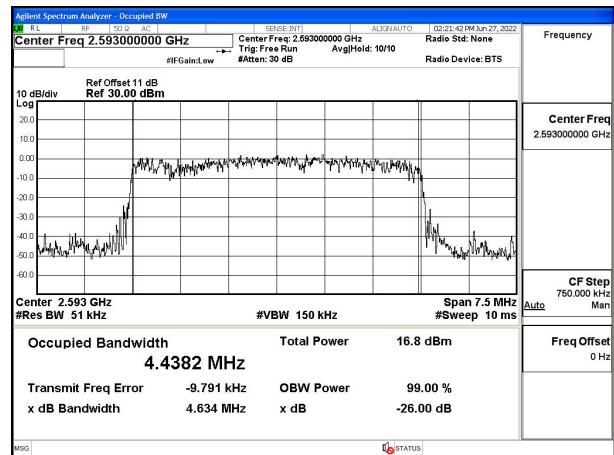


Fig.2

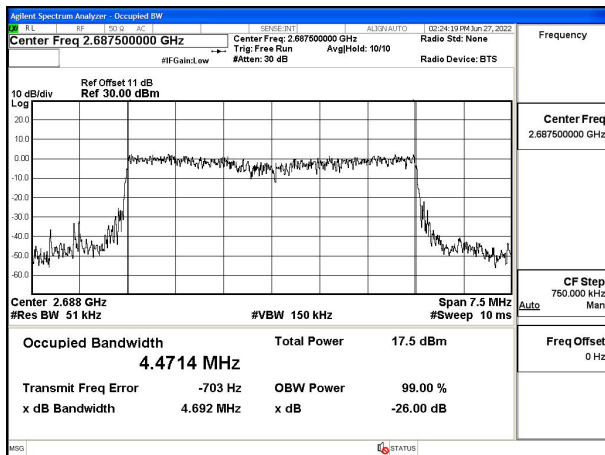


Fig.3

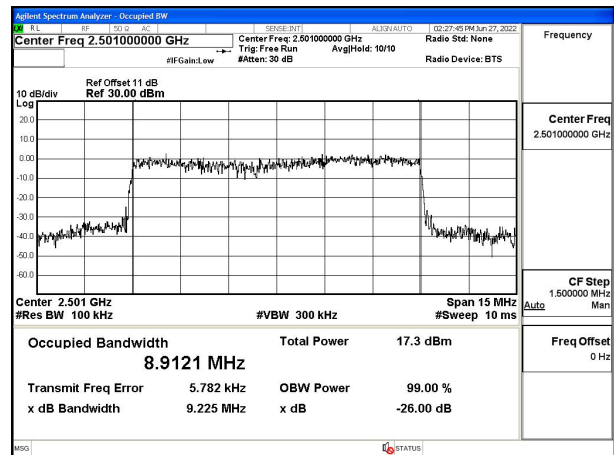


Fig.4

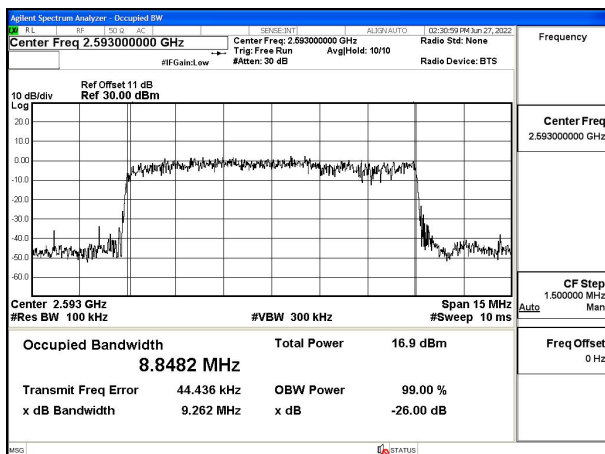


Fig.5

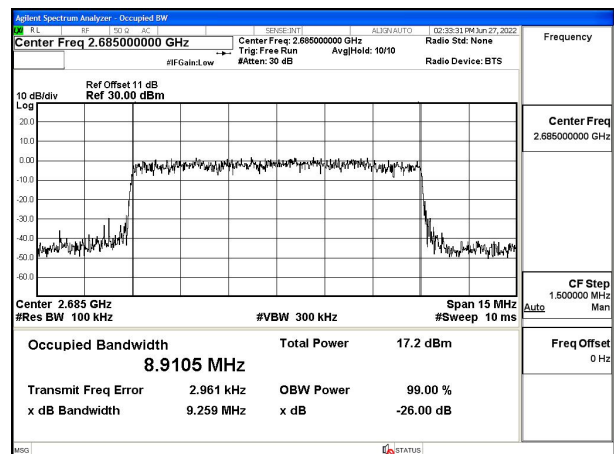


Fig.6

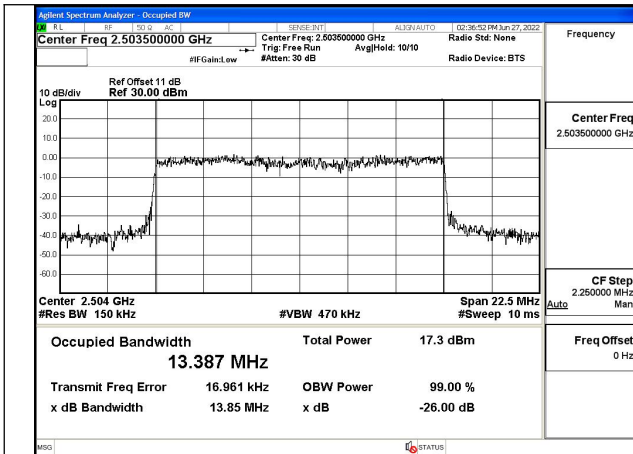


Fig.7

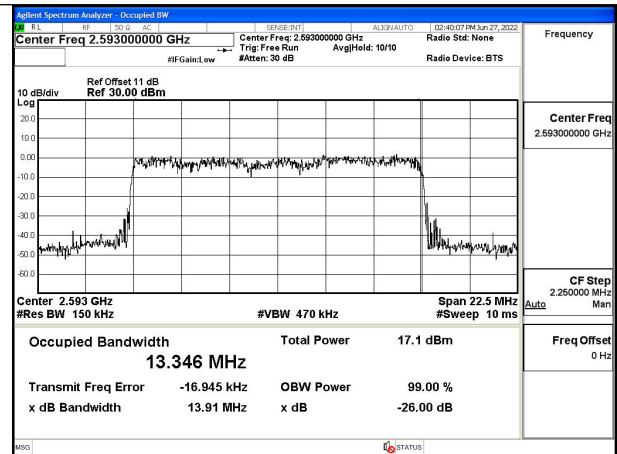


Fig.8

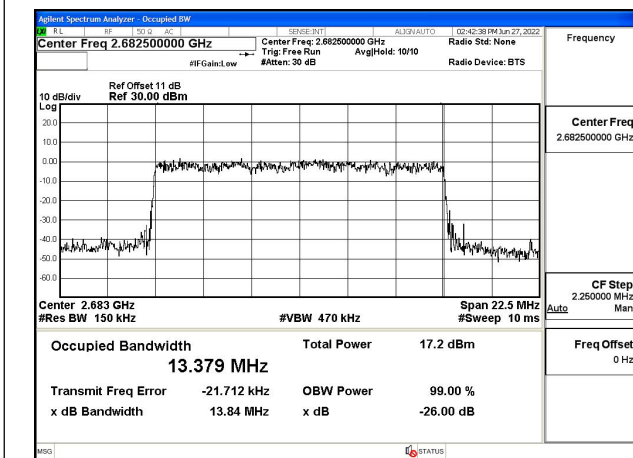


Fig.9

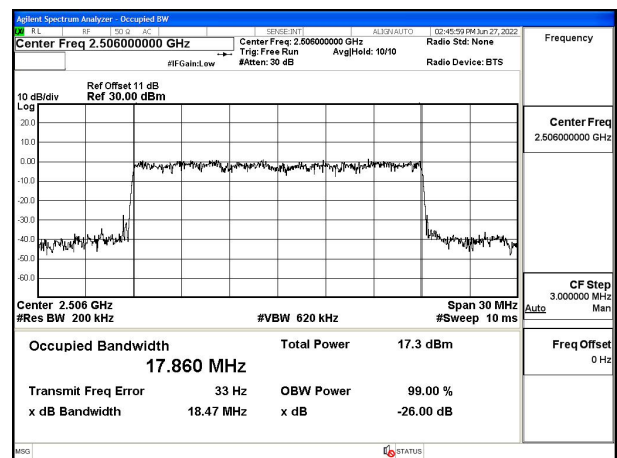


Fig.10

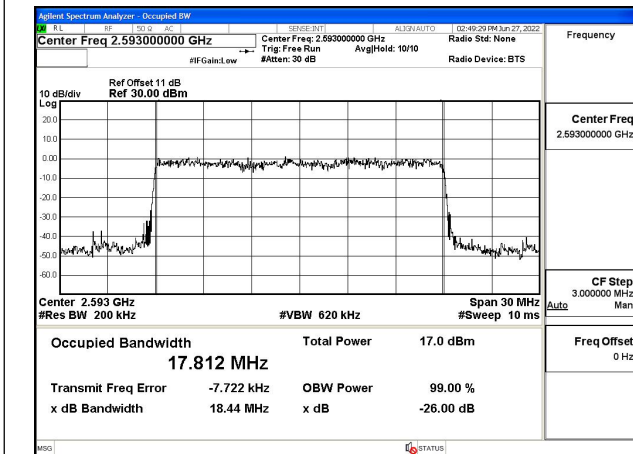


Fig.11

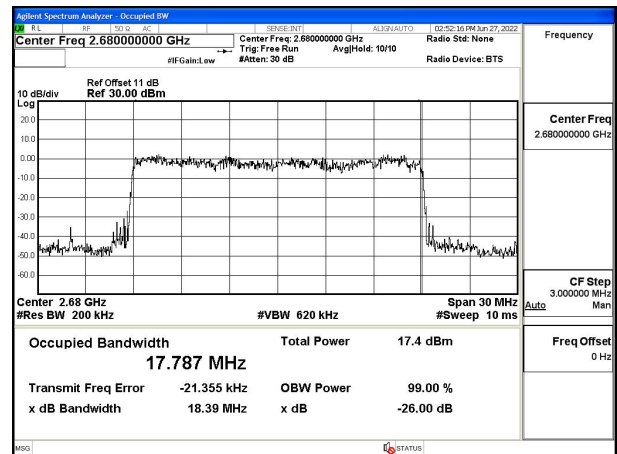


Fig.12

Test Mode: 16QAM

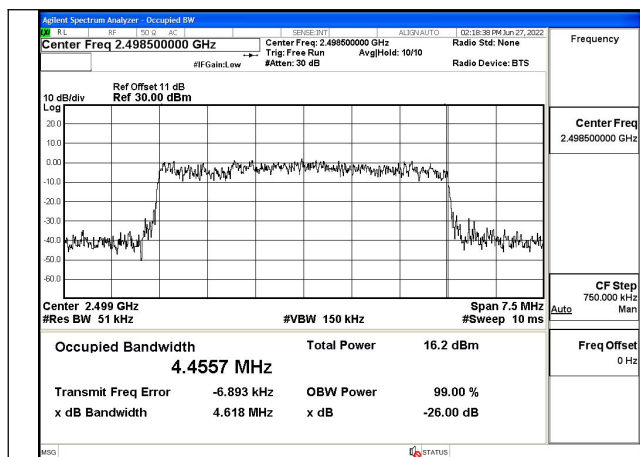


Fig.13

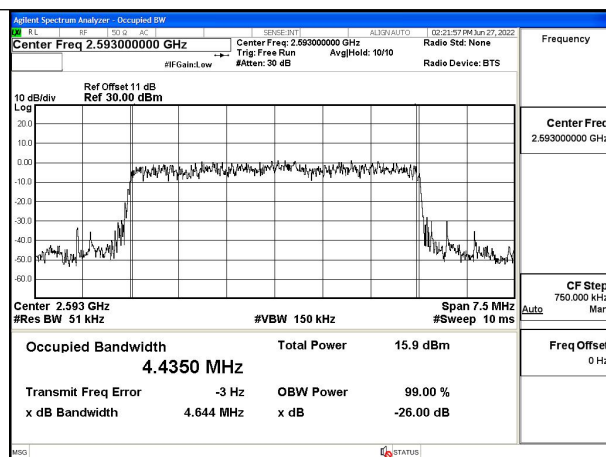


Fig.14

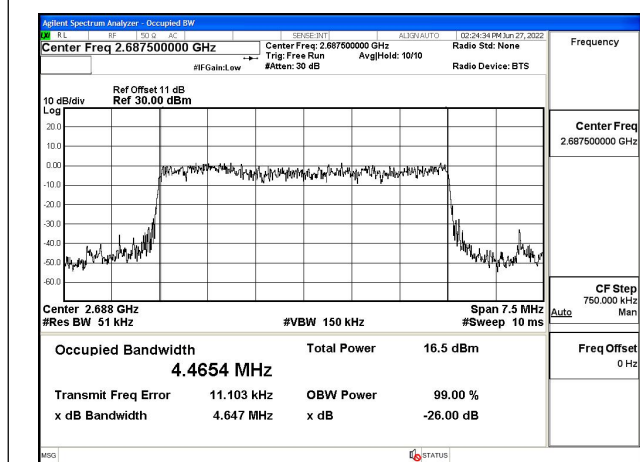


Fig.15

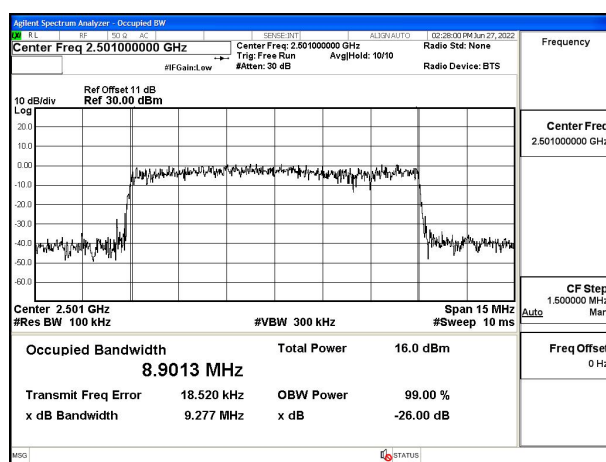


Fig.16

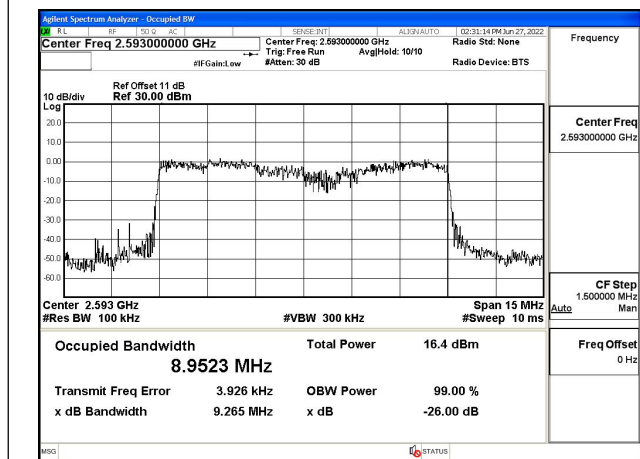


Fig.17

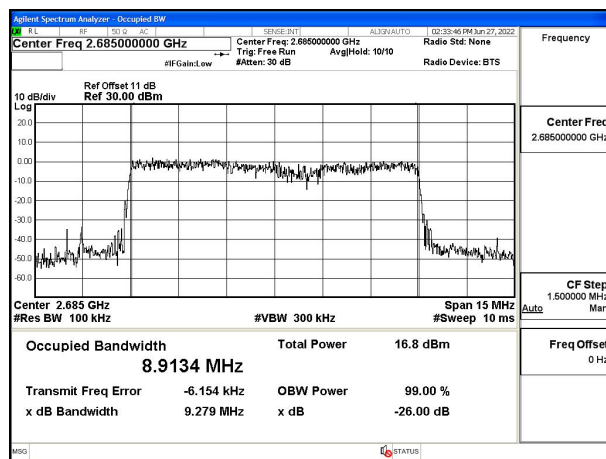


Fig.18

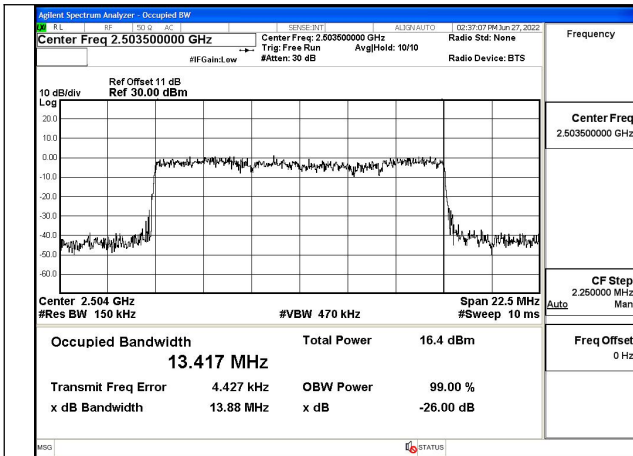


Fig.19

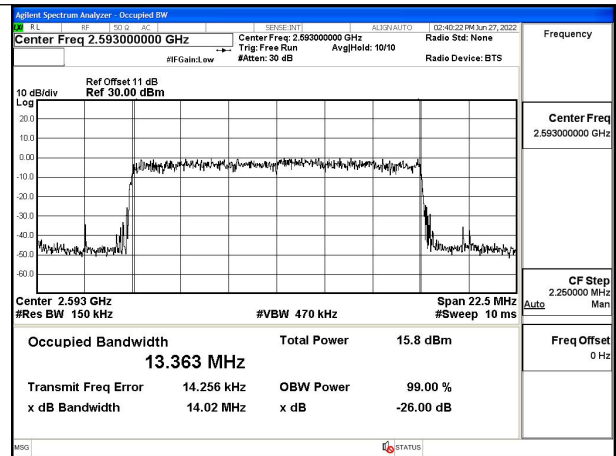


Fig.20

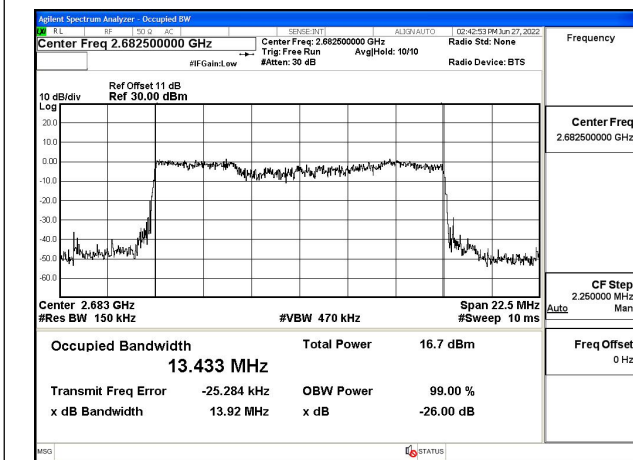


Fig.21

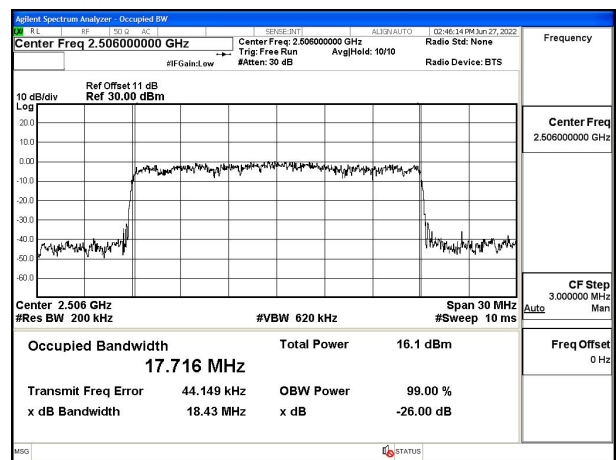


Fig.22

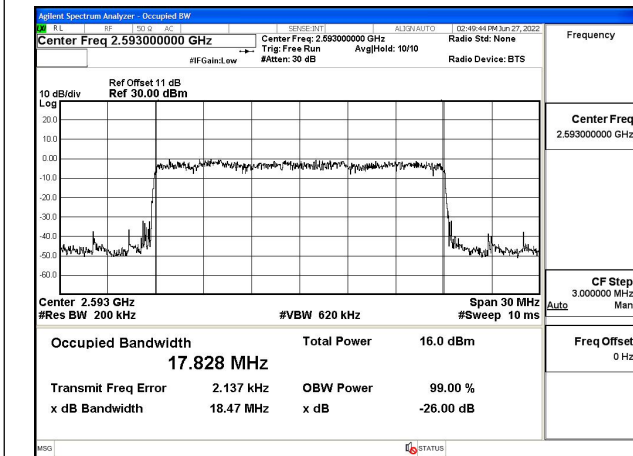


Fig.23

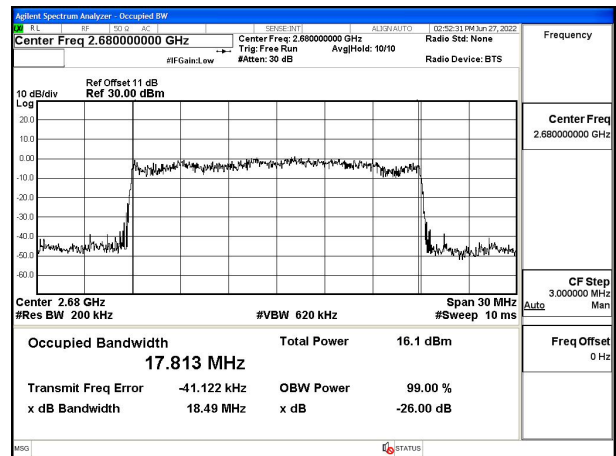


Fig.24

Test Mode: 64QAM

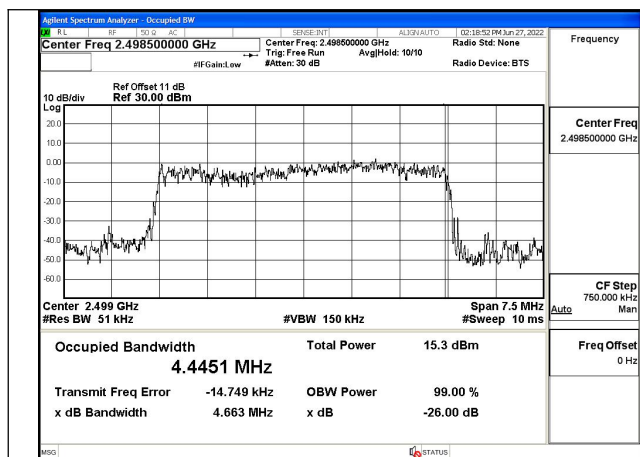


Fig.25

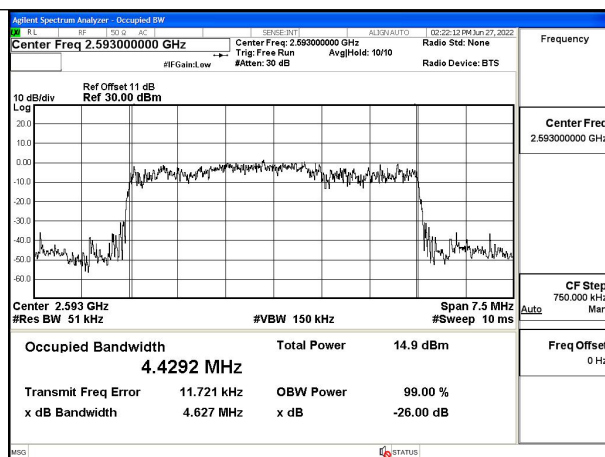


Fig.26

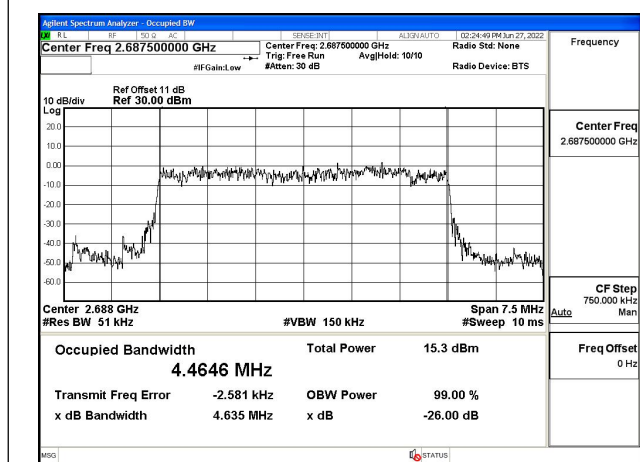


Fig.27

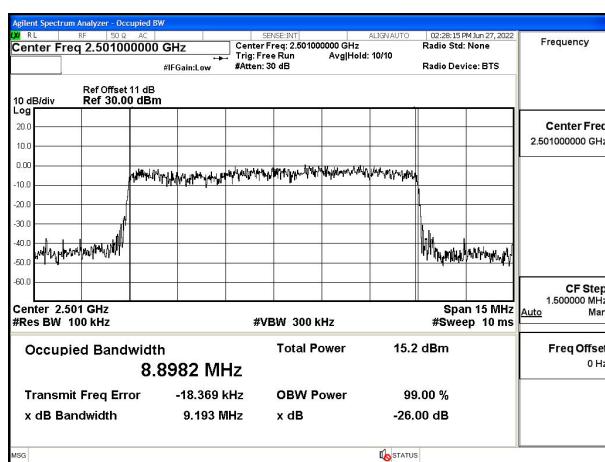


Fig.28

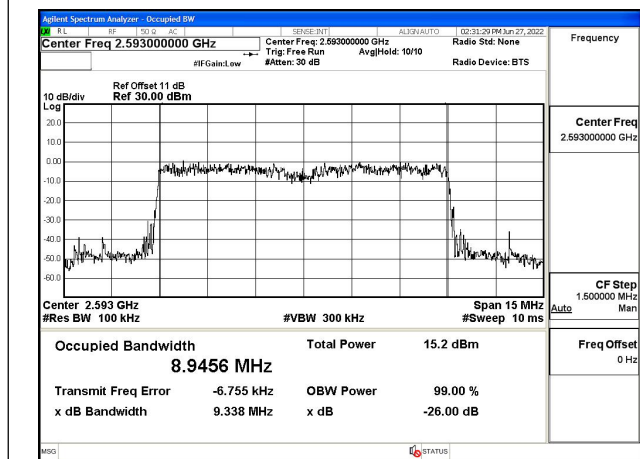


Fig.29

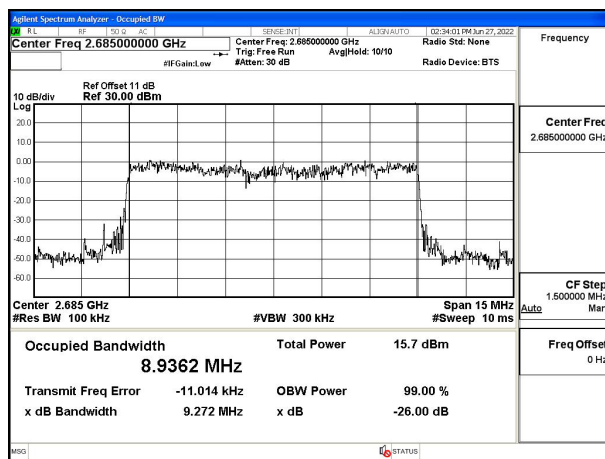


Fig.30

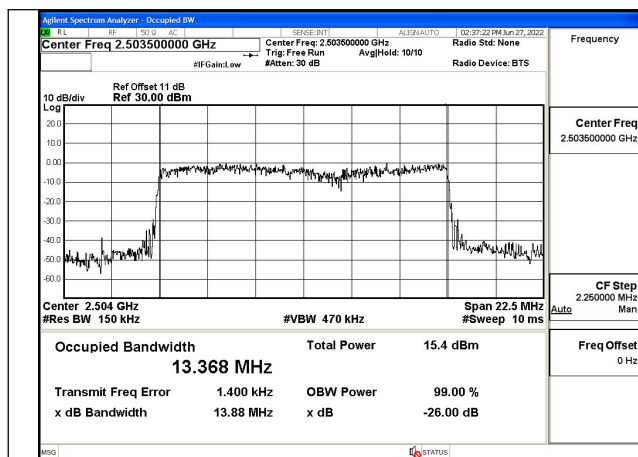


Fig.31

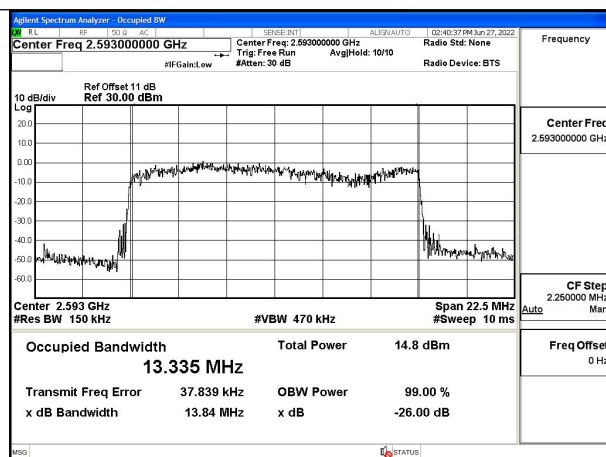


Fig.32

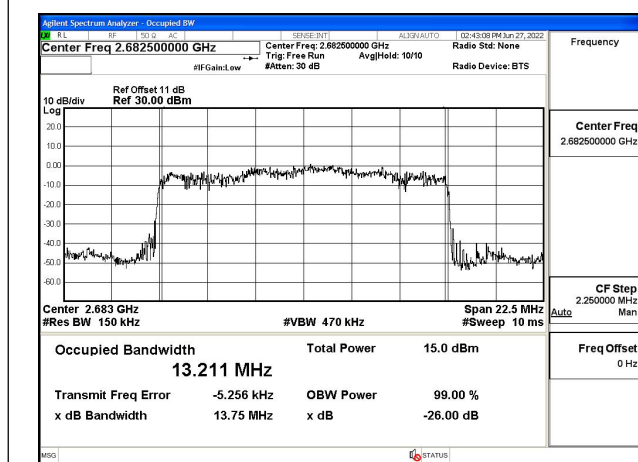


Fig.33

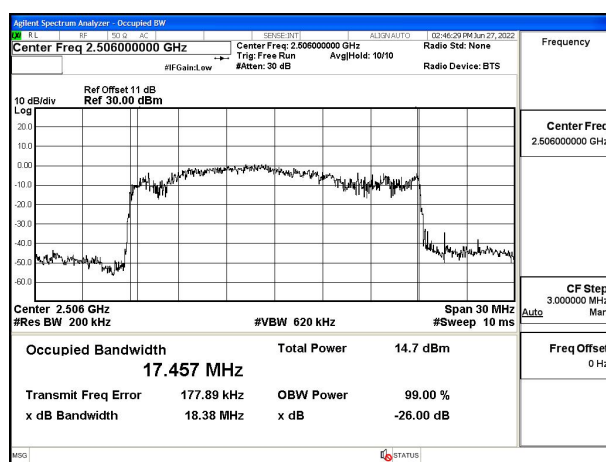


Fig.34

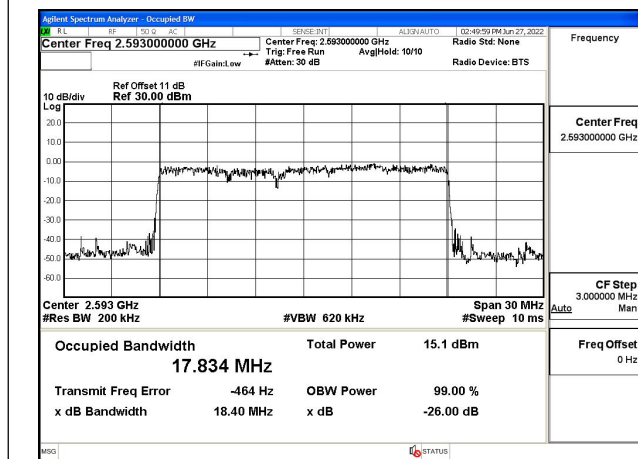


Fig.35

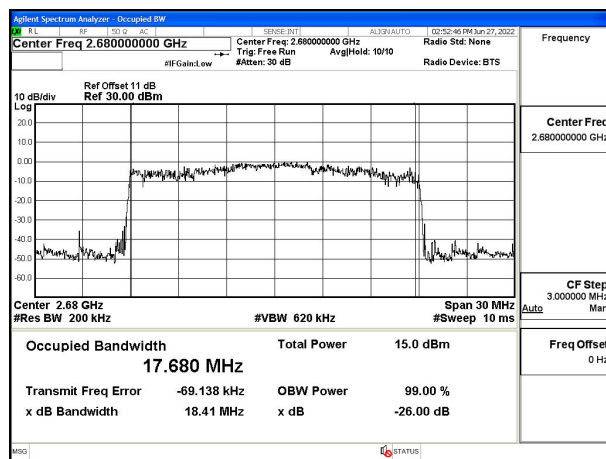


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
41	QPSK	2498.5	39675	5	25	0	4.690	Fig.1
41	QPSK	2593	40620	5	25	0	4.630	Fig.2
41	QPSK	2687.5	41565	5	25	0	4.690	Fig.3
41	QPSK	2501	39700	10	50	0	9.220	Fig.4
41	QPSK	2593	40620	10	50	0	9.260	Fig.5
41	QPSK	2685	41540	10	50	0	9.260	Fig.6
41	QPSK	2503.5	39725	15	75	0	13.850	Fig.7
41	QPSK	2593	40620	15	75	0	13.910	Fig.8
41	QPSK	2682.5	41515	15	75	0	13.840	Fig.9
41	QPSK	2506	39750	20	100	0	18.470	Fig.10
41	QPSK	2593	40620	20	100	0	18.440	Fig.11
41	QPSK	2680	41490	20	100	0	18.390	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
41	16QAM	2498.5	39675	5	25	0	4.620	Fig.13
41	16QAM	2593	40620	5	25	0	4.640	Fig.14
41	16QAM	2687.5	41565	5	25	0	4.650	Fig.15
41	16QAM	2501	39700	10	50	0	9.280	Fig.16
41	16QAM	2593	40620	10	50	0	9.260	Fig.17
41	16QAM	2685	41540	10	50	0	9.280	Fig.18
41	16QAM	2503.5	39725	15	75	0	13.880	Fig.19
41	16QAM	2593	40620	15	75	0	14.020	Fig.20
41	16QAM	2682.5	41515	15	75	0	13.920	Fig.21
41	16QAM	2506	39750	20	100	0	18.430	Fig.22
41	16QAM	2593	40620	20	100	0	18.470	Fig.23
41	16QAM	2680	41490	20	100	0	18.490	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
41	64QAM	2498.5	39675	5	25	0	4.660	Fig.25
41	64QAM	2593	40620	5	25	0	4.630	Fig.26
41	64QAM	2687.5	41565	5	25	0	4.640	Fig.27
41	64QAM	2501	39700	10	50	0	9.190	Fig.28
41	64QAM	2593	40620	10	50	0	9.340	Fig.29
41	64QAM	2685	41540	10	50	0	9.270	Fig.30
41	64QAM	2503.5	39725	15	75	0	13.880	Fig.31
41	64QAM	2593	40620	15	75	0	13.840	Fig.32
41	64QAM	2682.5	41515	15	75	0	13.750	Fig.33
41	64QAM	2506	39750	20	100	0	18.380	Fig.34
41	64QAM	2593	40620	20	100	0	18.400	Fig.35
41	64QAM	2680	41490	20	100	0	18.410	Fig.36

Test Mode: QPSK

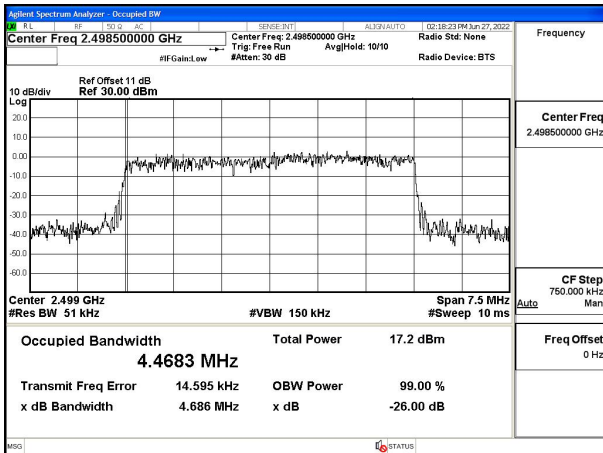


Fig.1

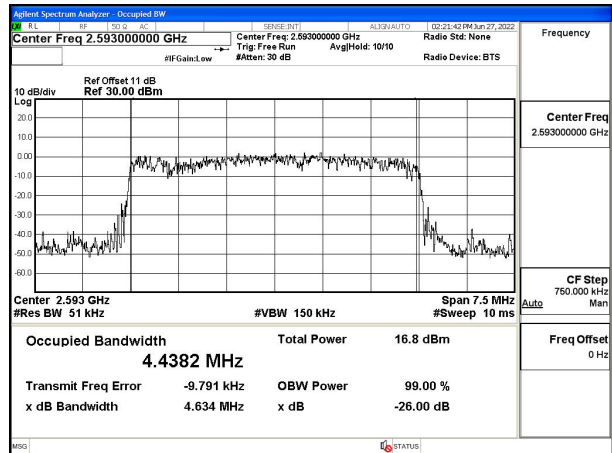


Fig.2

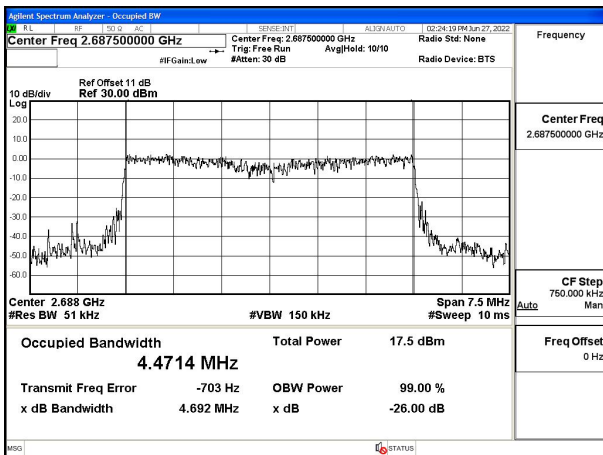


Fig.3

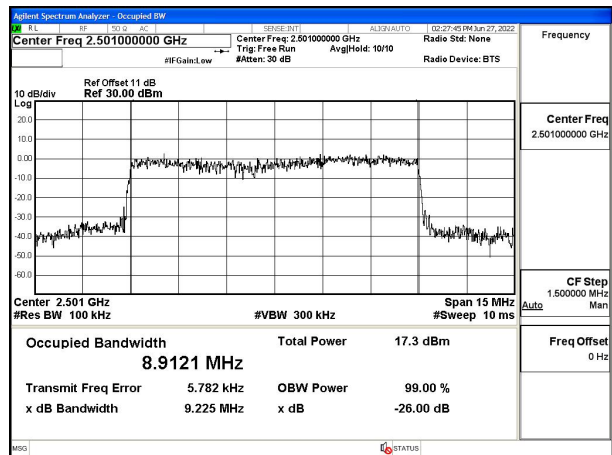


Fig.4

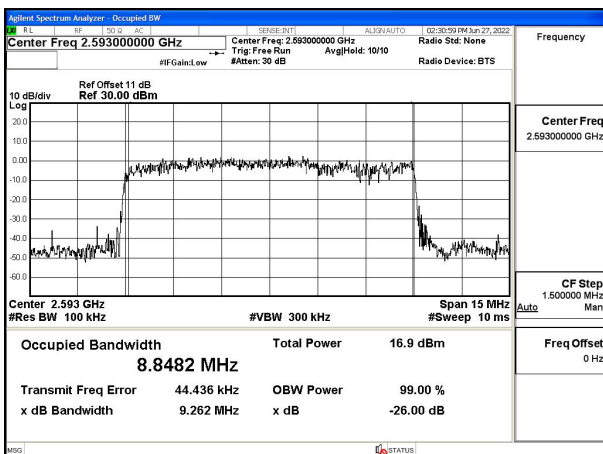


Fig.5

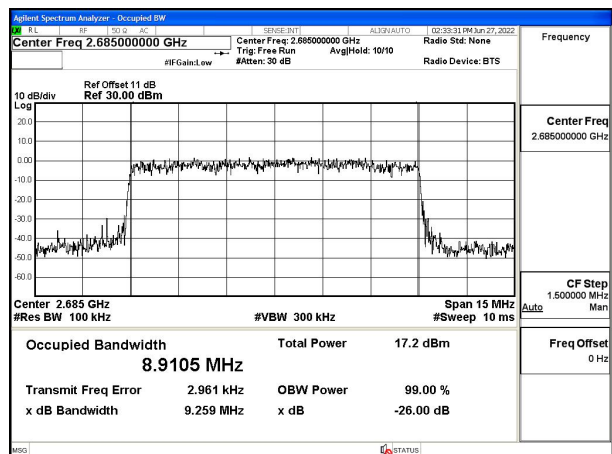


Fig.6