

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 38

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2572.5	37775	5	1	0	23.31
QPSK	2572.5	37775	5	1	12	23.18
QPSK	2572.5	37775	5	1	24	23.15
QPSK	2572.5	37775	5	12	0	22.29
QPSK	2572.5	37775	5	12	7	22.27
QPSK	2572.5	37775	5	12	13	22.32
QPSK	2572.5	37775	5	25	0	22.24
QPSK	2595	38000	5	1	0	23.58
QPSK	2595	38000	5	1	12	23.43
QPSK	2595	38000	5	1	24	23.40
QPSK	2595	38000	5	12	0	22.12
QPSK	2595	38000	5	12	7	22.23
QPSK	2595	38000	5	12	13	22.07
QPSK	2595	38000	5	25	0	22.12
QPSK	2617.5	38225	5	1	0	23.07
QPSK	2617.5	38225	5	1	12	23.38
QPSK	2617.5	38225	5	1	24	23.51
QPSK	2617.5	38225	5	12	0	22.21
QPSK	2617.5	38225	5	12	7	22.22
QPSK	2617.5	38225	5	12	13	22.36
QPSK	2617.5	38225	5	25	0	22.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2572.5	37775	5	1	0	22.03
16QAM	2572.5	37775	5	1	12	21.93
16QAM	2572.5	37775	5	1	24	21.90
16QAM	2572.5	37775	5	12	0	21.26
16QAM	2572.5	37775	5	12	7	21.35
16QAM	2572.5	37775	5	12	13	21.40
16QAM	2572.5	37775	5	25	0	21.49
16QAM	2595	38000	5	1	0	22.08
16QAM	2595	38000	5	1	12	22.03
16QAM	2595	38000	5	1	24	22.10
16QAM	2595	38000	5	12	0	21.47
16QAM	2595	38000	5	12	7	21.32
16QAM	2595	38000	5	12	13	21.26
16QAM	2595	38000	5	25	0	21.09
16QAM	2617.5	38225	5	1	0	21.73
16QAM	2617.5	38225	5	1	12	22.05
16QAM	2617.5	38225	5	1	24	22.26
16QAM	2617.5	38225	5	12	0	21.28
16QAM	2617.5	38225	5	12	7	21.24
16QAM	2617.5	38225	5	12	13	21.45
16QAM	2617.5	38225	5	25	0	21.33
64QAM	2572.5	37775	5	1	0	20.80
64QAM	2572.5	37775	5	1	12	21.08
64QAM	2572.5	37775	5	1	24	20.26
64QAM	2572.5	37775	5	12	0	19.85
64QAM	2572.5	37775	5	12	7	19.78
64QAM	2572.5	37775	5	12	13	19.81
64QAM	2572.5	37775	5	25	0	19.91
64QAM	2595	38000	5	1	0	20.56
64QAM	2595	38000	5	1	12	20.35
64QAM	2595	38000	5	1	24	20.45
64QAM	2595	38000	5	12	0	19.91
64QAM	2595	38000	5	12	7	19.87
64QAM	2595	38000	5	12	13	19.87
64QAM	2595	38000	5	25	0	19.76
64QAM	2617.5	38225	5	1	0	20.55
64QAM	2617.5	38225	5	1	12	20.84
64QAM	2617.5	38225	5	1	24	20.54
64QAM	2617.5	38225	5	12	0	19.83
64QAM	2617.5	38225	5	12	7	19.80
64QAM	2617.5	38225	5	12	13	20.01
64QAM	2617.5	38225	5	25	0	20.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2575	37800	10	1	0	23.42
QPSK	2575	37800	10	1	25	23.34
QPSK	2575	37800	10	1	49	23.30
QPSK	2575	37800	10	25	0	22.28
QPSK	2575	37800	10	25	12	22.24
QPSK	2575	37800	10	25	25	22.24
QPSK	2575	37800	10	50	0	21.79
QPSK	2595	38000	10	1	0	23.52
QPSK	2595	38000	10	1	25	23.41
QPSK	2595	38000	10	1	49	23.26
QPSK	2595	38000	10	25	0	22.26
QPSK	2595	38000	10	25	12	22.12
QPSK	2595	38000	10	25	25	22.09
QPSK	2595	38000	10	50	0	21.83
QPSK	2615	38200	10	1	0	23.31
QPSK	2615	38200	10	1	25	23.33
QPSK	2615	38200	10	1	49	23.81
QPSK	2615	38200	10	25	0	21.95
QPSK	2615	38200	10	25	12	22.05
QPSK	2615	38200	10	25	25	22.27
QPSK	2615	38200	10	50	0	21.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2575	37800	10	1	0	21.99
16QAM	2575	37800	10	1	25	21.83
16QAM	2575	37800	10	1	49	21.69
16QAM	2575	37800	10	25	0	21.31
16QAM	2575	37800	10	25	12	21.27
16QAM	2575	37800	10	25	25	21.26
16QAM	2575	37800	10	50	0	20.91
16QAM	2595	38000	10	1	0	22.24
16QAM	2595	38000	10	1	25	22.06
16QAM	2595	38000	10	1	49	21.99
16QAM	2595	38000	10	25	0	21.45
16QAM	2595	38000	10	25	12	21.25
16QAM	2595	38000	10	25	25	21.28
16QAM	2595	38000	10	50	0	20.74
16QAM	2615	38200	10	1	0	21.62
16QAM	2615	38200	10	1	25	21.58
16QAM	2615	38200	10	1	49	22.14
16QAM	2615	38200	10	25	0	21.03
16QAM	2615	38200	10	25	12	21.26
16QAM	2615	38200	10	25	25	21.37
16QAM	2615	38200	10	50	0	20.72
64QAM	2575	37800	10	1	0	20.81
64QAM	2575	37800	10	1	25	20.77
64QAM	2575	37800	10	1	49	20.81
64QAM	2575	37800	10	25	0	20.03
64QAM	2575	37800	10	25	12	19.85
64QAM	2575	37800	10	25	25	19.99
64QAM	2575	37800	10	50	0	19.34
64QAM	2595	38000	10	1	0	20.98
64QAM	2595	38000	10	1	25	20.39
64QAM	2595	38000	10	1	49	20.25
64QAM	2595	38000	10	25	0	19.85
64QAM	2595	38000	10	25	12	19.68
64QAM	2595	38000	10	25	25	19.65
64QAM	2595	38000	10	50	0	19.28
64QAM	2615	38200	10	1	0	20.36
64QAM	2615	38200	10	1	25	20.51
64QAM	2615	38200	10	1	49	21.05
64QAM	2615	38200	10	25	0	19.67
64QAM	2615	38200	10	25	12	19.82
64QAM	2615	38200	10	25	25	20.02
64QAM	2615	38200	10	50	0	19.20

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2577.5	37825	15	1	0	23.82
QPSK	2577.5	37825	15	1	37	23.77
QPSK	2577.5	37825	15	1	74	23.73
QPSK	2577.5	37825	15	36	0	22.24
QPSK	2577.5	37825	15	36	29	22.11
QPSK	2577.5	37825	15	36	30	22.10
QPSK	2577.5	37825	15	75	0	21.94
QPSK	2595	38000	15	1	0	23.63
QPSK	2595	38000	15	1	37	23.46
QPSK	2595	38000	15	1	74	23.28
QPSK	2595	38000	15	36	0	22.32
QPSK	2595	38000	15	36	29	22.10
QPSK	2595	38000	15	36	30	22.10
QPSK	2595	38000	15	75	0	21.66
QPSK	2612.5	38175	15	1	0	23.31
QPSK	2612.5	38175	15	1	37	23.28
QPSK	2612.5	38175	15	1	74	23.80
QPSK	2612.5	38175	15	36	0	22.03
QPSK	2612.5	38175	15	36	29	22.05
QPSK	2612.5	38175	15	36	30	22.06
QPSK	2612.5	38175	15	75	0	21.69

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2577.5	37825	15	1	0	21.90
16QAM	2577.5	37825	15	1	37	21.94
16QAM	2577.5	37825	15	1	74	21.76
16QAM	2577.5	37825	15	36	0	21.19
16QAM	2577.5	37825	15	36	29	21.15
16QAM	2577.5	37825	15	36	30	21.14
16QAM	2577.5	37825	15	75	0	20.98
16QAM	2595	38000	15	1	0	22.06
16QAM	2595	38000	15	1	37	22.07
16QAM	2595	38000	15	1	74	22.01
16QAM	2595	38000	15	36	0	21.29
16QAM	2595	38000	15	36	29	21.10
16QAM	2595	38000	15	36	30	21.03
16QAM	2595	38000	15	75	0	20.73
16QAM	2612.5	38175	15	1	0	21.72
16QAM	2612.5	38175	15	1	37	21.64
16QAM	2612.5	38175	15	1	74	22.17
16QAM	2612.5	38175	15	36	0	21.07
16QAM	2612.5	38175	15	36	29	21.03
16QAM	2612.5	38175	15	36	30	21.01
16QAM	2612.5	38175	15	75	0	20.73
64QAM	2577.5	37825	15	1	0	20.78
64QAM	2577.5	37825	15	1	37	20.91
64QAM	2577.5	37825	15	1	74	20.78
64QAM	2577.5	37825	15	36	0	19.82
64QAM	2577.5	37825	15	36	29	19.77
64QAM	2577.5	37825	15	36	30	19.77
64QAM	2577.5	37825	15	75	0	19.43
64QAM	2595	38000	15	1	0	20.95
64QAM	2595	38000	15	1	37	20.11
64QAM	2595	38000	15	1	74	21.02
64QAM	2595	38000	15	36	0	19.89
64QAM	2595	38000	15	36	29	19.83
64QAM	2595	38000	15	36	30	19.84
64QAM	2595	38000	15	75	0	19.31
64QAM	2612.5	38175	15	1	0	20.41
64QAM	2612.5	38175	15	1	37	20.35
64QAM	2612.5	38175	15	1	74	20.95
64QAM	2612.5	38175	15	36	0	19.65
64QAM	2612.5	38175	15	36	29	19.62
64QAM	2612.5	38175	15	36	30	19.64
64QAM	2612.5	38175	15	75	0	19.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	23.83
QPSK	2580	37850	20	1	49	23.84
QPSK	2580	37850	20	1	99	23.68
QPSK	2580	37850	20	50	0	22.17
QPSK	2580	37850	20	50	24	22.16
QPSK	2580	37850	20	50	50	22.26
QPSK	2580	37850	20	100	0	21.74
QPSK	2595	38000	20	1	0	23.57
QPSK	2595	38000	20	1	49	23.44
QPSK	2595	38000	20	1	99	23.30
QPSK	2595	38000	20	50	0	22.32
QPSK	2595	38000	20	50	24	22.20
QPSK	2595	38000	20	50	50	22.13
QPSK	2595	38000	20	100	0	21.79
QPSK	2610	38150	20	1	0	23.39
QPSK	2610	38150	20	1	49	23.24
QPSK	2610	38150	20	1	99	23.87
QPSK	2610	38150	20	50	0	22.14
QPSK	2610	38150	20	50	24	21.87
QPSK	2610	38150	20	50	50	22.13
QPSK	2610	38150	20	100	0	21.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2580	37850	20	1	0	21.92
16QAM	2580	37850	20	1	49	21.85
16QAM	2580	37850	20	1	99	21.80
16QAM	2580	37850	20	50	0	21.41
16QAM	2580	37850	20	50	24	21.26
16QAM	2580	37850	20	50	50	21.12
16QAM	2580	37850	20	100	0	20.94
16QAM	2595	38000	20	1	0	22.17
16QAM	2595	38000	20	1	49	21.96
16QAM	2595	38000	20	1	99	21.97
16QAM	2595	38000	20	50	0	21.41
16QAM	2595	38000	20	50	24	21.18
16QAM	2595	38000	20	50	50	21.10
16QAM	2595	38000	20	100	0	20.91
16QAM	2610	38150	20	1	0	22.04
16QAM	2610	38150	20	1	49	21.71
16QAM	2610	38150	20	1	99	22.36
16QAM	2610	38150	20	50	0	21.13
16QAM	2610	38150	20	50	24	21.09
16QAM	2610	38150	20	50	50	21.16
16QAM	2610	38150	20	100	0	20.75
64QAM	2580	37850	20	1	0	20.94
64QAM	2580	37850	20	1	49	20.81
64QAM	2580	37850	20	1	99	20.87
64QAM	2580	37850	20	50	0	19.66
64QAM	2580	37850	20	50	24	19.56
64QAM	2580	37850	20	50	50	19.58
64QAM	2580	37850	20	100	0	19.25
64QAM	2595	38000	20	1	0	20.47
64QAM	2595	38000	20	1	49	20.43
64QAM	2595	38000	20	1	99	20.40
64QAM	2595	38000	20	50	0	19.94
64QAM	2595	38000	20	50	24	19.75
64QAM	2595	38000	20	50	50	19.52
64QAM	2595	38000	20	100	0	19.24
64QAM	2610	38150	20	1	0	20.47
64QAM	2610	38150	20	1	49	20.21
64QAM	2610	38150	20	1	99	20.91
64QAM	2610	38150	20	50	0	19.55
64QAM	2610	38150	20	50	24	19.40
64QAM	2610	38150	20	50	50	19.68
64QAM	2610	38150	20	100	0	19.08

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	QPSK	2572.5	37775	5	25	0	4.470	Fig.1
38	QPSK	2595	38000	5	25	0	4.450	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.450	Fig.3
38	QPSK	2575	37800	10	50	0	8.870	Fig.4
38	QPSK	2595	38000	10	50	0	8.900	Fig.5
38	QPSK	2615	38200	10	50	0	8.930	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.390	Fig.7
38	QPSK	2595	38000	15	75	0	13.350	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.360	Fig.9
38	QPSK	2580	37850	20	100	0	17.820	Fig.10
38	QPSK	2595	38000	20	100	0	17.880	Fig.11
38	QPSK	2610	38150	20	100	0	17.890	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	16QAM	2572.5	37775	5	25	0	4.450	Fig.13
38	16QAM	2595	38000	5	25	0	4.440	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.440	Fig.15
38	16QAM	2575	37800	10	50	0	8.920	Fig.16
38	16QAM	2595	38000	10	50	0	8.950	Fig.17
38	16QAM	2615	38200	10	50	0	8.910	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.370	Fig.19
38	16QAM	2595	38000	15	75	0	13.410	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.370	Fig.21
38	16QAM	2580	37850	20	100	0	17.810	Fig.22
38	16QAM	2595	38000	20	100	0	17.840	Fig.23
38	16QAM	2610	38150	20	100	0	17.870	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	64QAM	2572.5	37775	5	25	0	4.470	Fig.25
38	64QAM	2595	38000	5	25	0	4.440	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.450	Fig.27
38	64QAM	2575	37800	10	50	0	8.910	Fig.28
38	64QAM	2595	38000	10	50	0	8.910	Fig.29
38	64QAM	2615	38200	10	50	0	8.900	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.390	Fig.31
38	64QAM	2595	38000	15	75	0	13.430	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.390	Fig.33
38	64QAM	2580	37850	20	100	0	17.770	Fig.34
38	64QAM	2595	38000	20	100	0	17.840	Fig.35
38	64QAM	2610	38150	20	100	0	17.840	Fig.36

Test Mode: QPSK

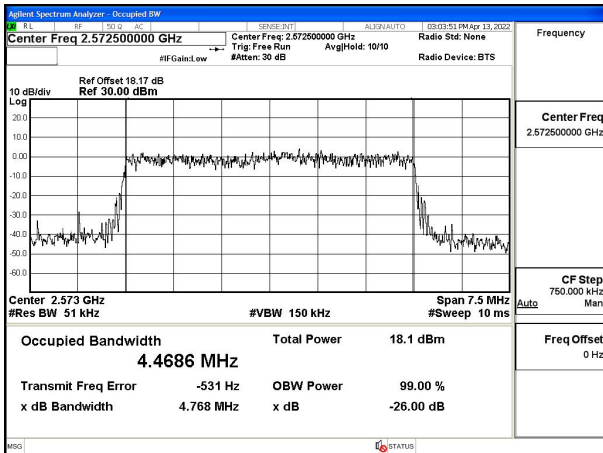


Fig.1

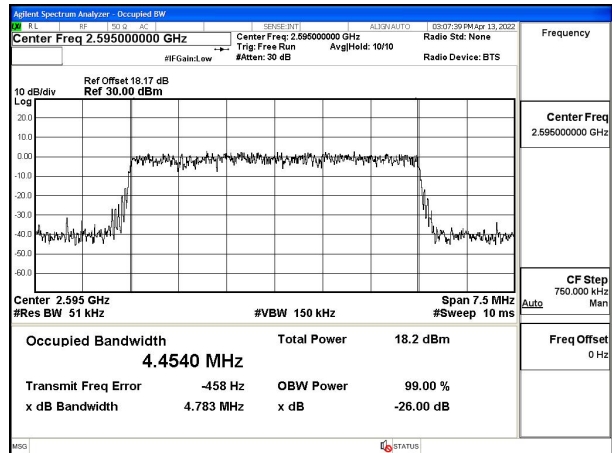


Fig.2

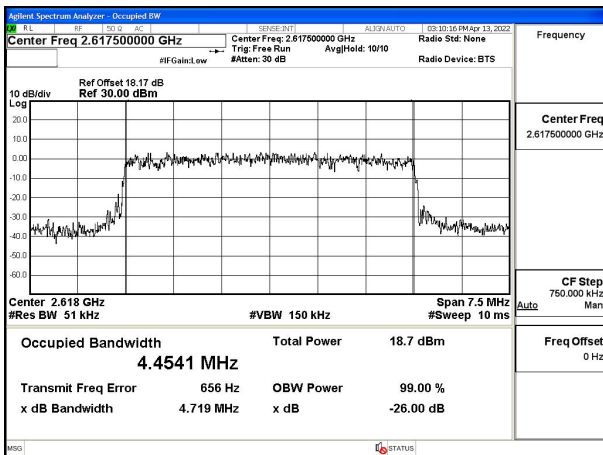


Fig.3

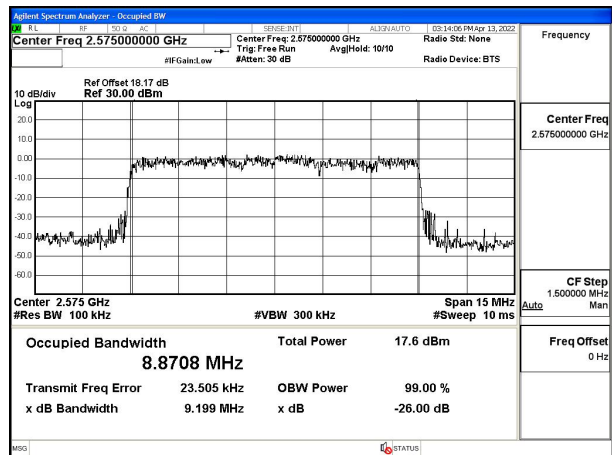


Fig.4

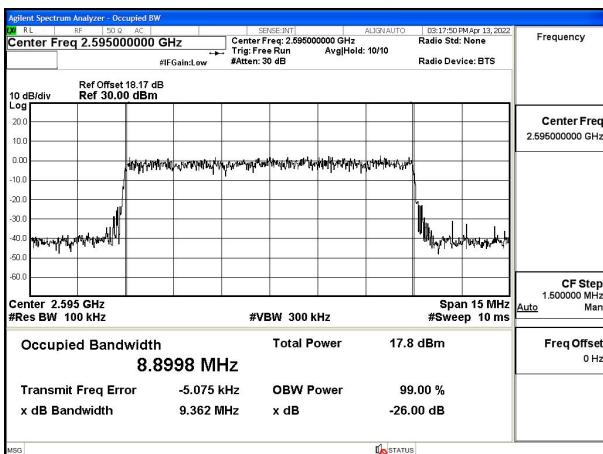


Fig.5

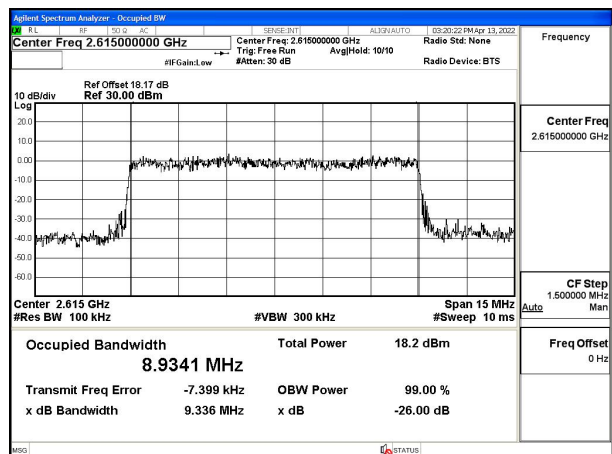


Fig.6

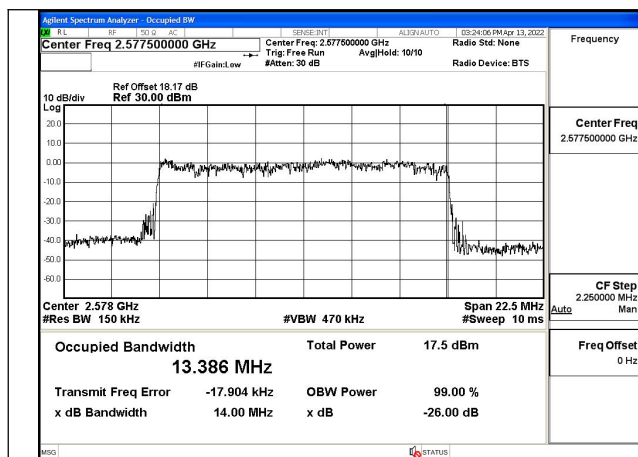


Fig.7

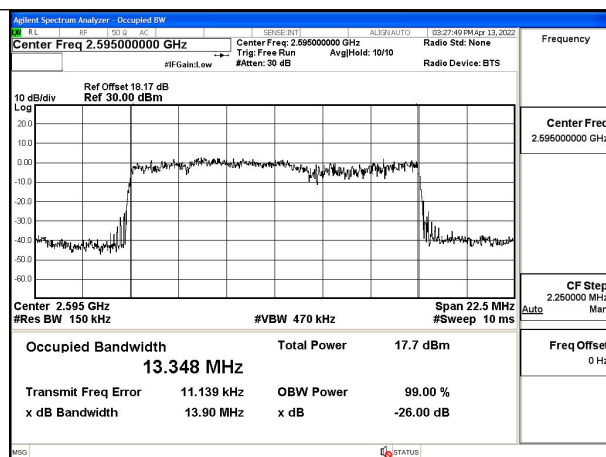


Fig.8

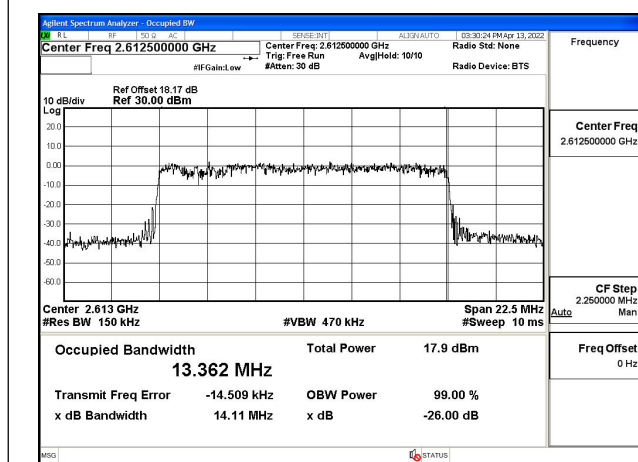


Fig.9

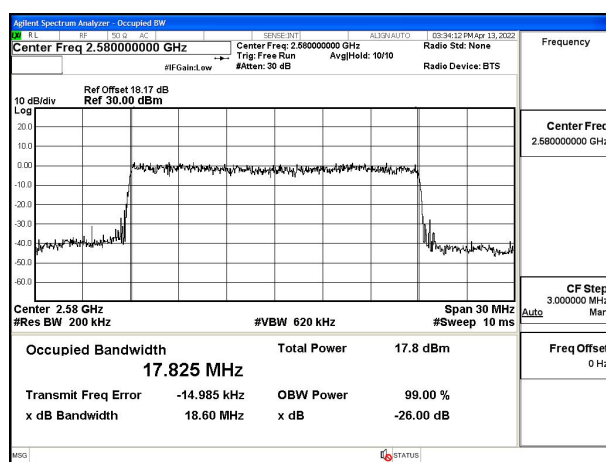


Fig.10

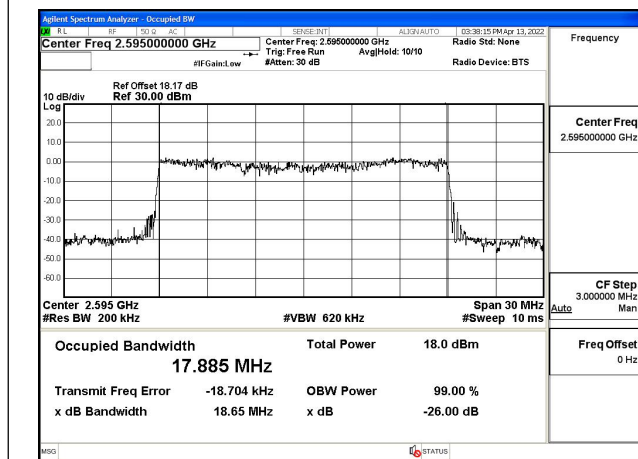


Fig.11

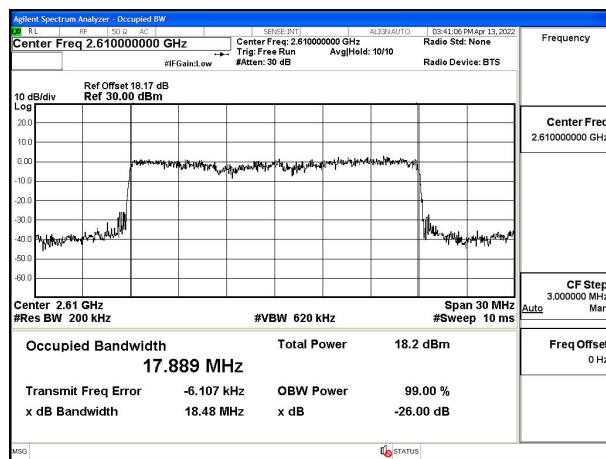


Fig.12

Test Mode: 16QAM

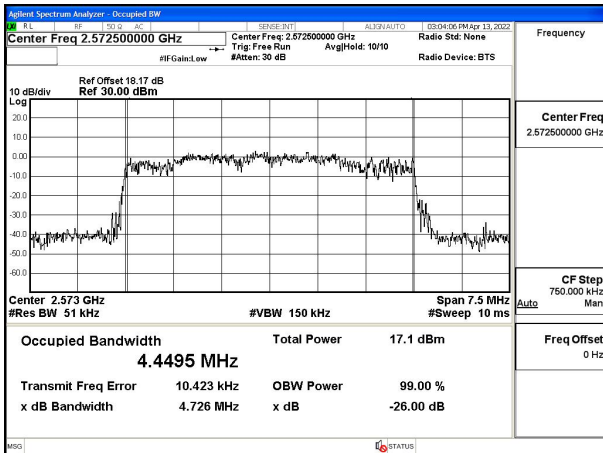


Fig.13

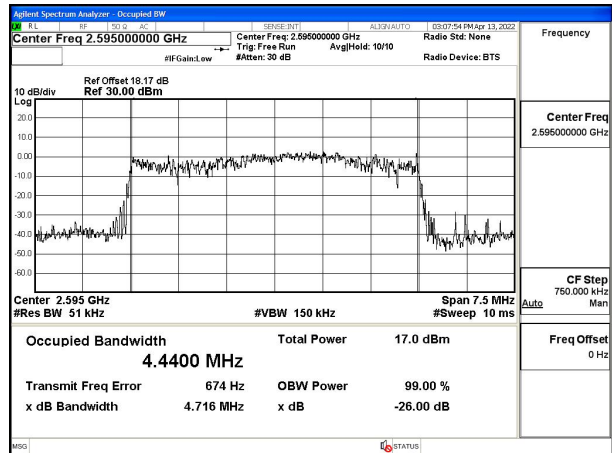


Fig.14

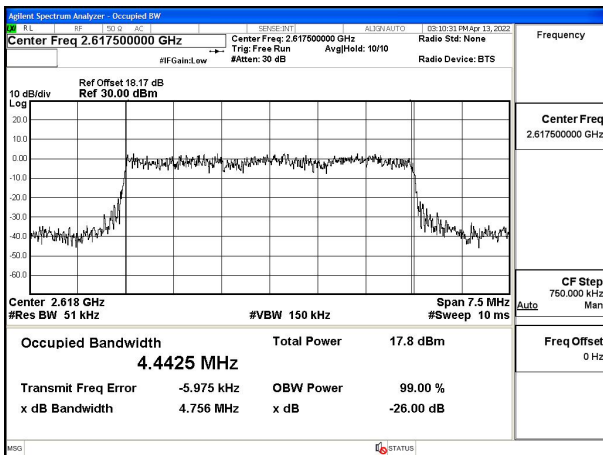


Fig.15

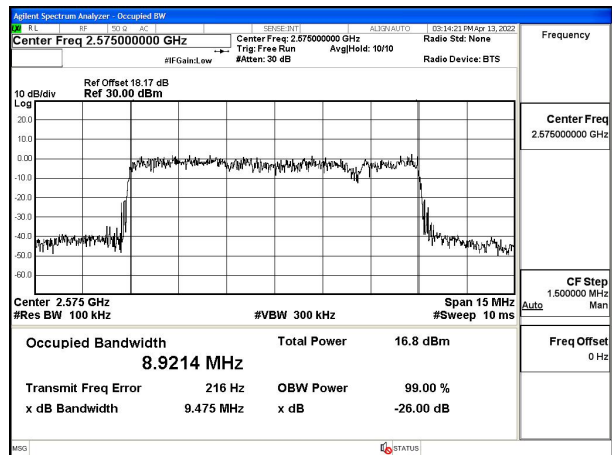


Fig.16

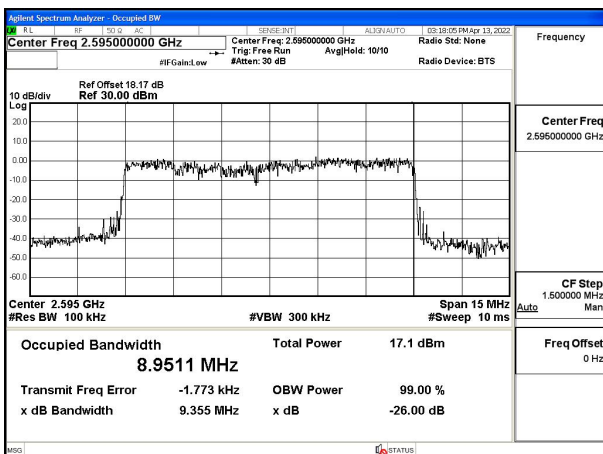


Fig.17

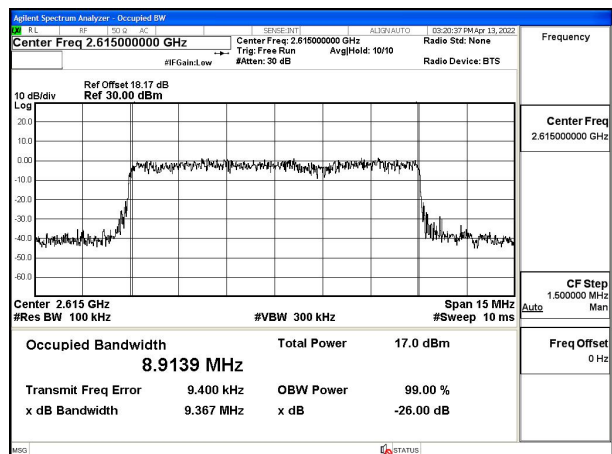


Fig.18

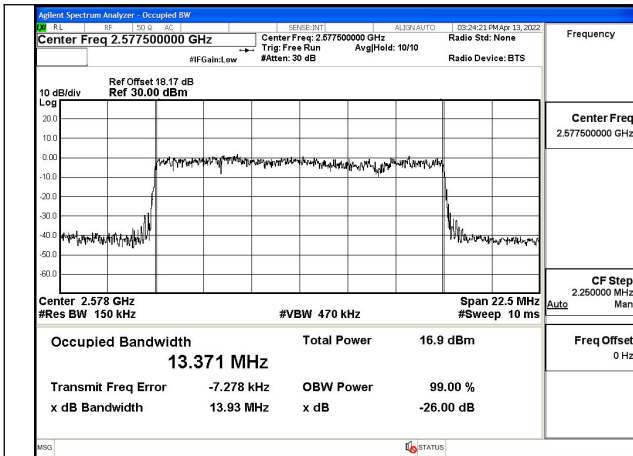


Fig.19

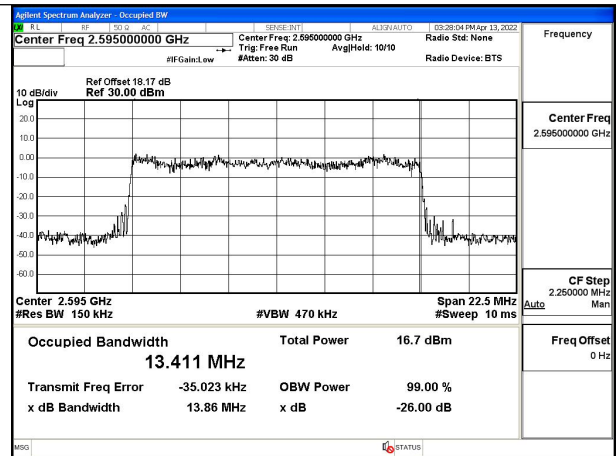


Fig.20

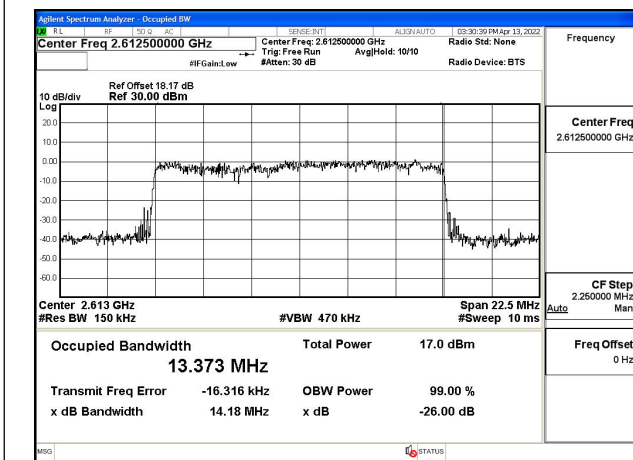


Fig.21

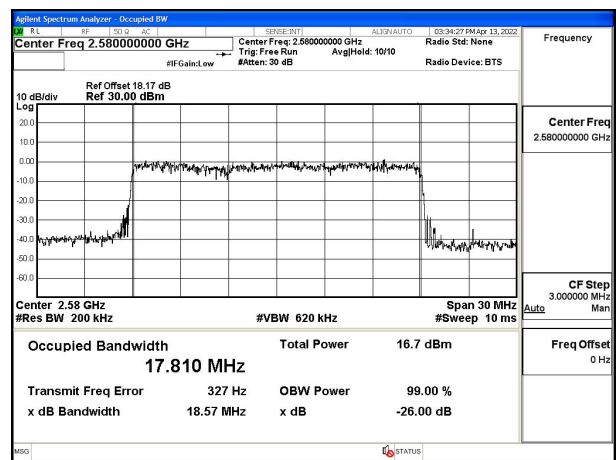


Fig.22

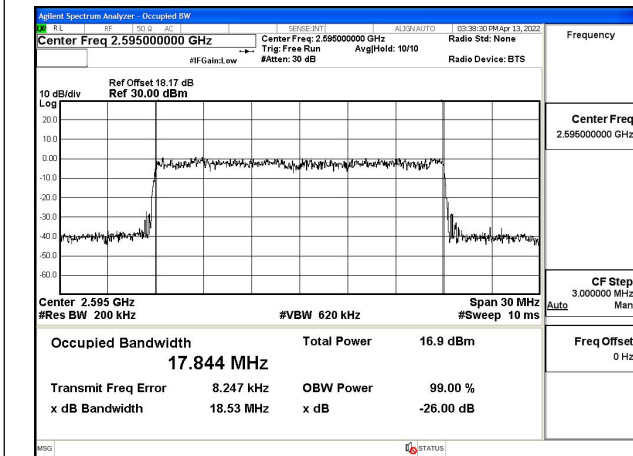


Fig.23

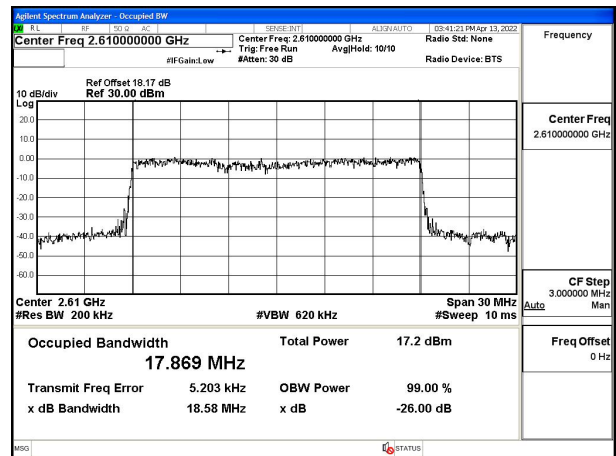


Fig.24

Test Mode: 64QAM

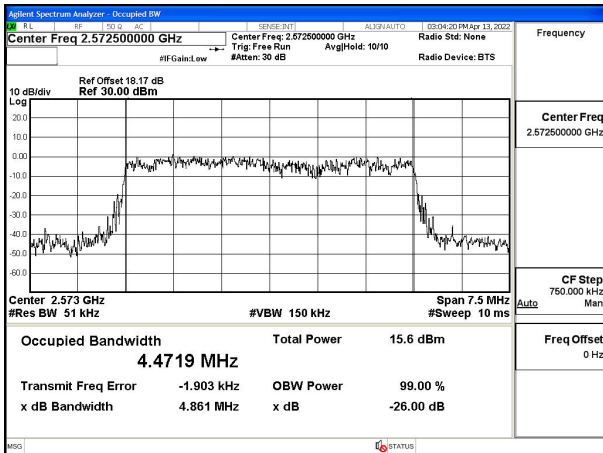


Fig.25

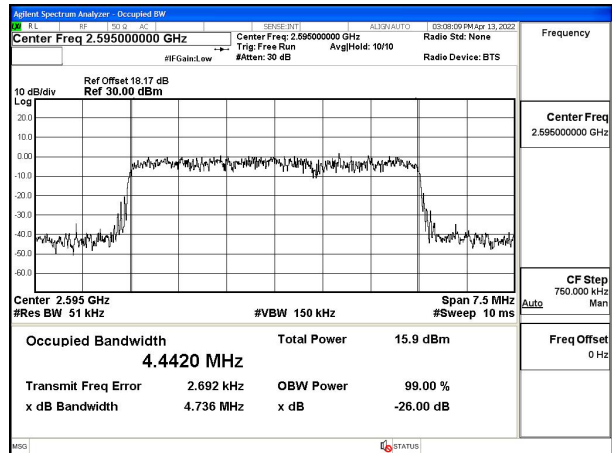


Fig.26

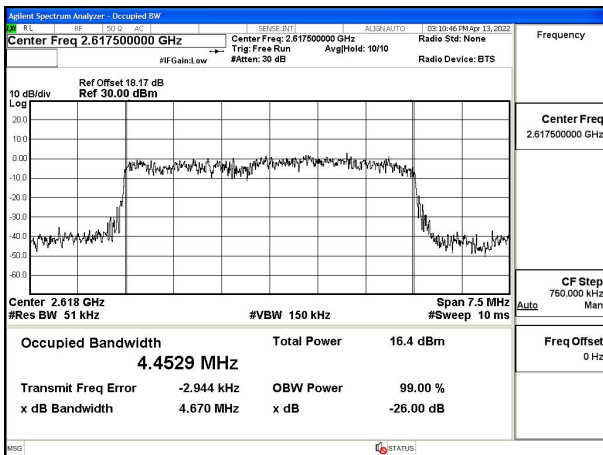


Fig.27

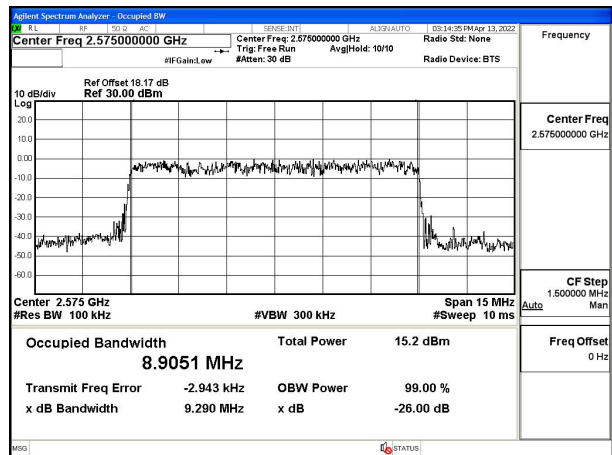


Fig.28

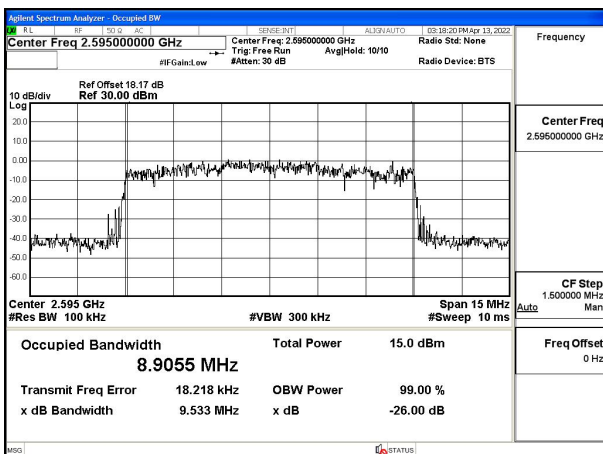


Fig.29

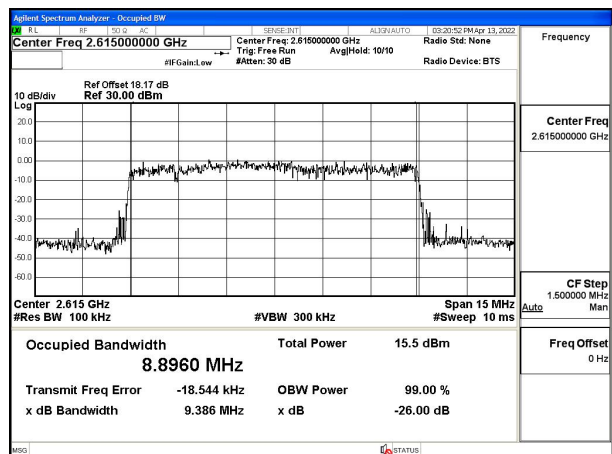


Fig.30

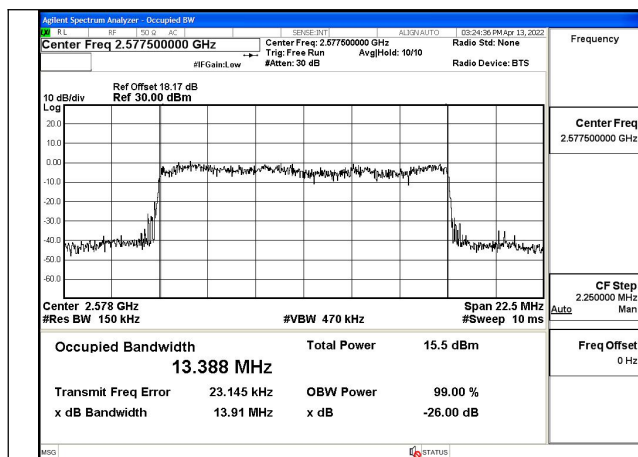


Fig.31

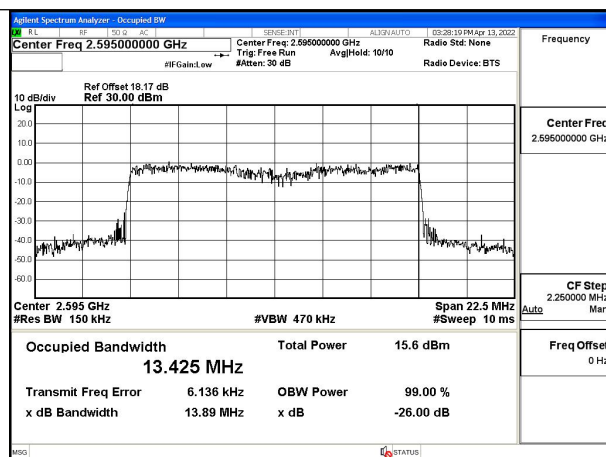


Fig.32

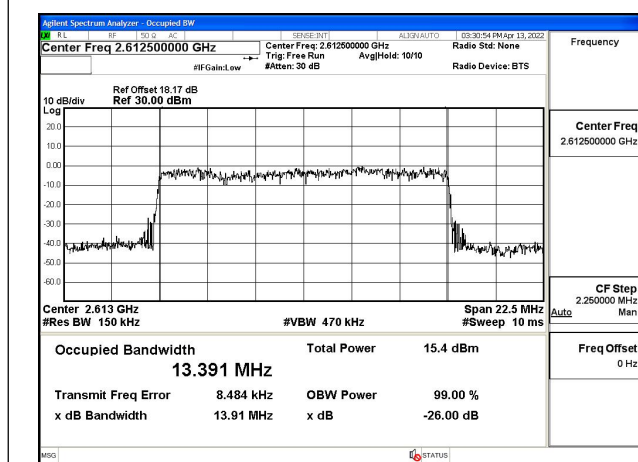


Fig.33

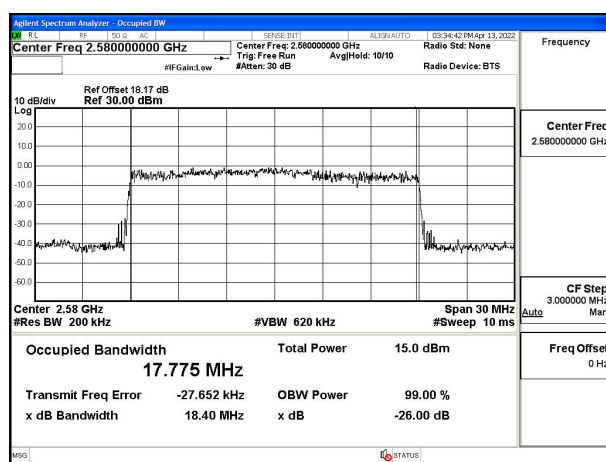


Fig.34

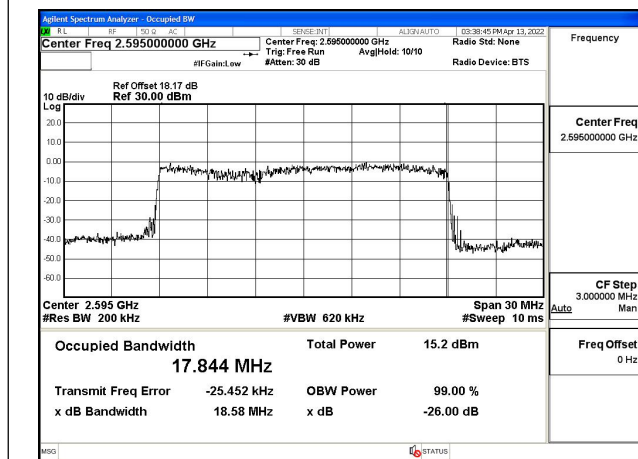


Fig.35

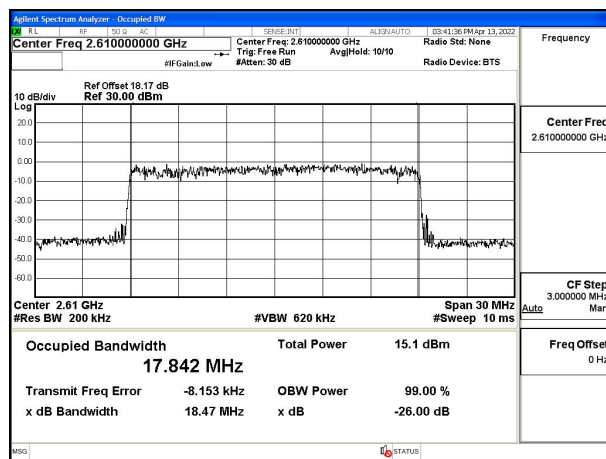


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	QPSK	2572.5	37775	5	25	0	4.770	Fig.1
38	QPSK	2595	38000	5	25	0	4.780	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.720	Fig.3
38	QPSK	2575	37800	10	50	0	9.200	Fig.4
38	QPSK	2595	38000	10	50	0	9.360	Fig.5
38	QPSK	2615	38200	10	50	0	9.340	Fig.6
38	QPSK	2577.5	37825	15	75	0	14.000	Fig.7
38	QPSK	2595	38000	15	75	0	13.900	Fig.8
38	QPSK	2612.5	38175	15	75	0	14.110	Fig.9
38	QPSK	2580	37850	20	100	0	18.600	Fig.10
38	QPSK	2595	38000	20	100	0	18.650	Fig.11
38	QPSK	2610	38150	20	100	0	18.480	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	16QAM	2572.5	37775	5	25	0	4.730	Fig.13
38	16QAM	2595	38000	5	25	0	4.720	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.760	Fig.15
38	16QAM	2575	37800	10	50	0	9.480	Fig.16
38	16QAM	2595	38000	10	50	0	9.350	Fig.17
38	16QAM	2615	38200	10	50	0	9.370	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.930	Fig.19
38	16QAM	2595	38000	15	75	0	13.860	Fig.20
38	16QAM	2612.5	38175	15	75	0	14.180	Fig.21
38	16QAM	2580	37850	20	100	0	18.570	Fig.22
38	16QAM	2595	38000	20	100	0	18.530	Fig.23
38	16QAM	2610	38150	20	100	0	18.580	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	64QAM	2572.5	37775	5	25	0	4.860	Fig.25
38	64QAM	2595	38000	5	25	0	4.740	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.670	Fig.27
38	64QAM	2575	37800	10	50	0	9.290	Fig.28
38	64QAM	2595	38000	10	50	0	9.530	Fig.29
38	64QAM	2615	38200	10	50	0	9.390	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.910	Fig.31
38	64QAM	2595	38000	15	75	0	13.890	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.910	Fig.33
38	64QAM	2580	37850	20	100	0	18.400	Fig.34
38	64QAM	2595	38000	20	100	0	18.580	Fig.35
38	64QAM	2610	38150	20	100	0	18.470	Fig.36

Test Mode: QPSK

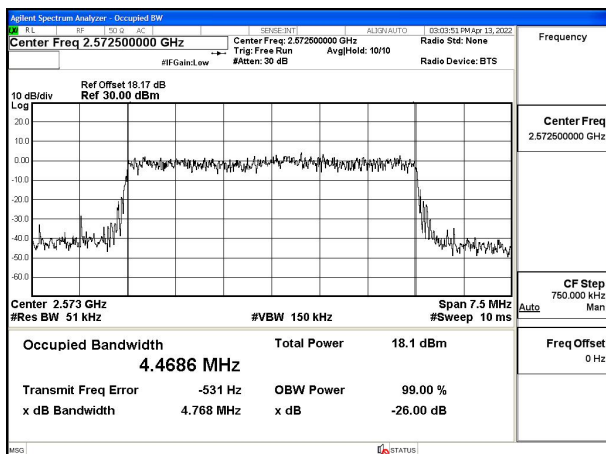


Fig.1

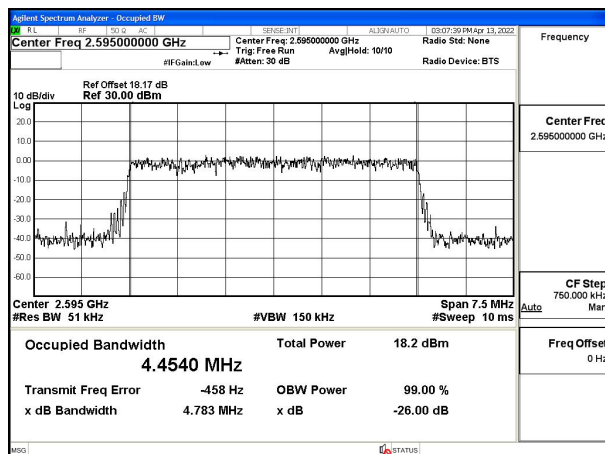


Fig.2

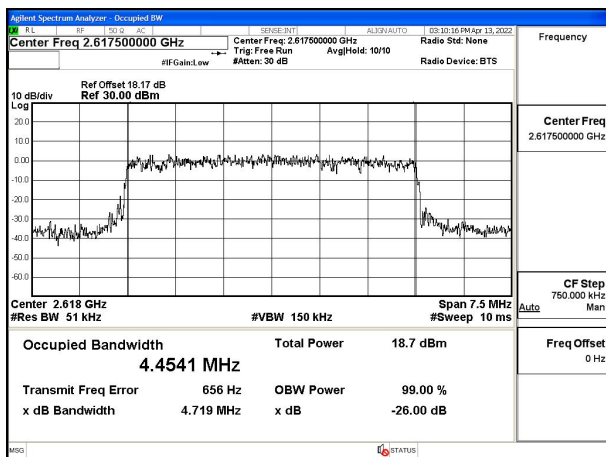


Fig.3

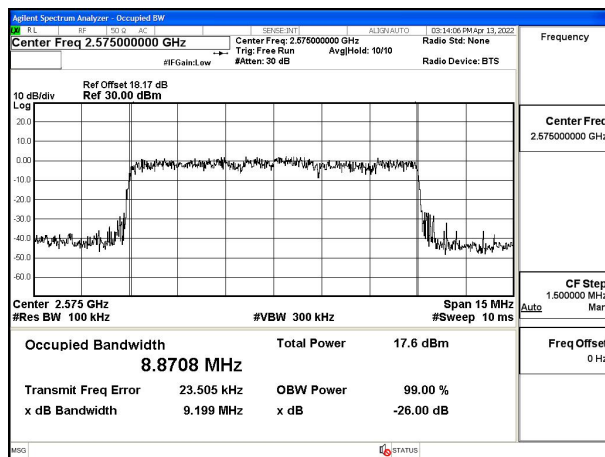


Fig.4

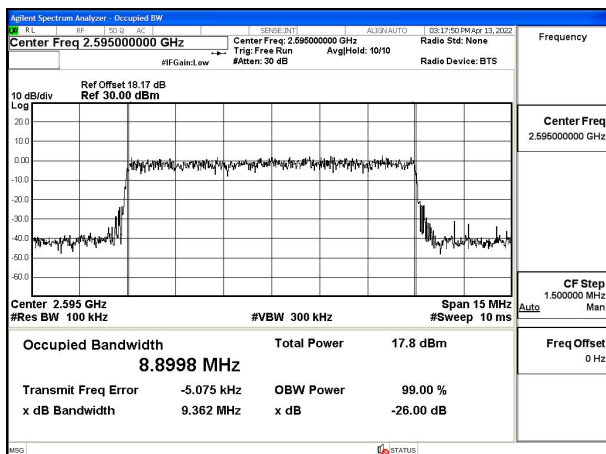


Fig.5

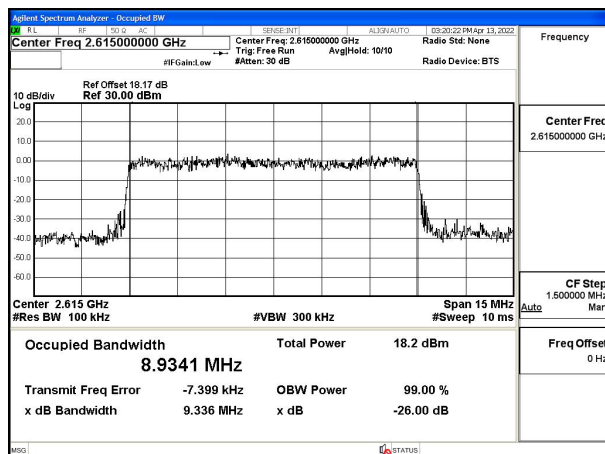


Fig.6