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	22.13
QPSK	2572.5	37775	5	1	12	22.23
QPSK	2572.5	37775	5	1	24	22.11
QPSK	2572.5	37775	5	12	0	21.24
QPSK	2572.5	37775	5	12	7	21.20
QPSK	2572.5	37775	5	12	13	21.24
QPSK	2572.5	37775	5	25	0	21.10
QPSK	2595	38000	5	1	0	21.85
QPSK	2595	38000	5	1	12	21.89
QPSK	2595	38000	5	1	24	21.92
QPSK	2595	38000	5	12	0	20.98
QPSK	2595	38000	5	12	7	20.94
QPSK	2595	38000	5	12	13	20.99
QPSK	2595	38000	5	25	0	20.88
QPSK	2617.5	38225	5	1	0	22.35
QPSK	2617.5	38225	5	1	12	22.49
QPSK	2617.5	38225	5	1	24	22.42
QPSK	2617.5	38225	5	12	0	21.44
QPSK	2617.5	38225	5	12	7	21.51
QPSK	2617.5	38225	5	12	13	21.49
QPSK	2617.5	38225	5	25	0	21.46

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2572.5	37775	5	1	0	21.56
16QAM	2572.5	37775	5	1	12	21.63
16QAM	2572.5	37775	5	1	24	21.44
16QAM	2572.5	37775	5	12	0	20.38
16QAM	2572.5	37775	5	12	7	20.25
16QAM	2572.5	37775	5	12	13	20.12
16QAM	2572.5	37775	5	25	0	20.23
16QAM	2595	38000	5	1	0	20.76
16QAM	2595	38000	5	1	12	21.52
16QAM	2595	38000	5	1	24	21.43
16QAM	2595	38000	5	12	0	19.91
16QAM	2595	38000	5	12	7	20.01
16QAM	2595	38000	5	12	13	20.05
16QAM	2595	38000	5	25	0	19.97
16QAM	2617.5	38225	5	1	0	21.56
16QAM	2617.5	38225	5	1	12	21.64
16QAM	2617.5	38225	5	1	24	21.55
16QAM	2617.5	38225	5	12	0	20.39
16QAM	2617.5	38225	5	12	7	20.61
16QAM	2617.5	38225	5	12	13	20.49
16QAM	2617.5	38225	5	25	0	20.54
64QAM	2572.5	37775	5	1	0	21.38
64QAM	2572.5	37775	5	1	12	21.77
64QAM	2572.5	37775	5	1	24	21.12
64QAM	2572.5	37775	5	12	0	20.27
64QAM	2572.5	37775	5	12	7	20.19
64QAM	2572.5	37775	5	12	13	20.17
64QAM	2572.5	37775	5	25	0	20.16
64QAM	2595	38000	5	1	0	21.25
64QAM	2595	38000	5	1	12	21.20
64QAM	2595	38000	5	1	24	20.64
64QAM	2595	38000	5	12	0	20.01
64QAM	2595	38000	5	12	7	20.11
64QAM	2595	38000	5	12	13	19.94
64QAM	2595	38000	5	25	0	20.06
64QAM	2617.5	38225	5	1	0	21.64
64QAM	2617.5	38225	5	1	12	21.81
64QAM	2617.5	38225	5	1	24	21.69
64QAM	2617.5	38225	5	12	0	20.44
64QAM	2617.5	38225	5	12	7	20.58
64QAM	2617.5	38225	5	12	13	20.60
64QAM	2617.5	38225	5	25	0	20.46

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2575	37800	10	1	0	22.18
QPSK	2575	37800	10	1	25	22.27
QPSK	2575	37800	10	1	49	22.14
QPSK	2575	37800	10	25	0	21.31
QPSK	2575	37800	10	25	12	21.23
QPSK	2575	37800	10	25	25	21.12
QPSK	2575	37800	10	50	0	21.22
QPSK	2595	38000	10	1	0	21.96
QPSK	2595	38000	10	1	25	21.95
QPSK	2595	38000	10	1	49	21.88
QPSK	2595	38000	10	25	0	20.94
QPSK	2595	38000	10	25	12	20.95
QPSK	2595	38000	10	25	25	20.96
QPSK	2595	38000	10	50	0	20.96
QPSK	2615	38200	10	1	0	22.24
QPSK	2615	38200	10	1	25	22.48
QPSK	2615	38200	10	1	49	22.43
QPSK	2615	38200	10	25	0	21.35
QPSK	2615	38200	10	25	12	21.39
QPSK	2615	38200	10	25	25	21.45
QPSK	2615	38200	10	50	0	21.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2575	37800	10	1	0	21.27
16QAM	2575	37800	10	1	25	21.29
16QAM	2575	37800	10	1	49	21.61
16QAM	2575	37800	10	25	0	20.45
16QAM	2575	37800	10	25	12	20.23
16QAM	2575	37800	10	25	25	20.11
16QAM	2575	37800	10	50	0	20.25
16QAM	2595	38000	10	1	0	20.84
16QAM	2595	38000	10	1	25	21.08
16QAM	2595	38000	10	1	49	21.32
16QAM	2595	38000	10	25	0	19.97
16QAM	2595	38000	10	25	12	20.00
16QAM	2595	38000	10	25	25	19.88
16QAM	2595	38000	10	50	0	19.95
16QAM	2615	38200	10	1	0	21.67
16QAM	2615	38200	10	1	25	21.84
16QAM	2615	38200	10	1	49	21.62
16QAM	2615	38200	10	25	0	20.42
16QAM	2615	38200	10	25	12	20.38
16QAM	2615	38200	10	25	25	20.48
16QAM	2615	38200	10	50	0	20.41
64QAM	2575	37800	10	1	0	21.50
64QAM	2575	37800	10	1	25	21.07
64QAM	2575	37800	10	1	49	21.37
64QAM	2575	37800	10	25	0	20.28
64QAM	2575	37800	10	25	12	20.28
64QAM	2575	37800	10	25	25	20.12
64QAM	2575	37800	10	50	0	20.28
64QAM	2595	38000	10	1	0	21.25
64QAM	2595	38000	10	1	25	20.70
64QAM	2595	38000	10	1	49	21.01
64QAM	2595	38000	10	25	0	19.95
64QAM	2595	38000	10	25	12	19.96
64QAM	2595	38000	10	25	25	19.89
64QAM	2595	38000	10	50	0	19.99
64QAM	2615	38200	10	1	0	21.51
64QAM	2615	38200	10	1	25	21.06
64QAM	2615	38200	10	1	49	21.51
64QAM	2615	38200	10	25	0	20.42
64QAM	2615	38200	10	25	12	20.48
64QAM	2615	38200	10	25	25	20.51
64QAM	2615	38200	10	50	0	20.42

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2577.5	37825	15	1	0	22.07
QPSK	2577.5	37825	15	1	37	21.94
QPSK	2577.5	37825	15	1	74	21.81
QPSK	2577.5	37825	15	36	0	21.08
QPSK	2577.5	37825	15	36	29	21.00
QPSK	2577.5	37825	15	36	30	20.97
QPSK	2577.5	37825	15	75	0	20.98
QPSK	2595	38000	15	1	0	21.84
QPSK	2595	38000	15	1	37	21.87
QPSK	2595	38000	15	1	74	21.73
QPSK	2595	38000	15	36	0	20.78
QPSK	2595	38000	15	36	29	20.75
QPSK	2595	38000	15	36	30	20.76
QPSK	2595	38000	15	75	0	20.77
QPSK	2612.5	38175	15	1	0	21.87
QPSK	2612.5	38175	15	1	37	22.35
QPSK	2612.5	38175	15	1	74	22.38
QPSK	2612.5	38175	15	36	0	21.05
QPSK	2612.5	38175	15	36	29	21.19
QPSK	2612.5	38175	15	36	30	21.20
QPSK	2612.5	38175	15	75	0	21.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2577.5	37825	15	1	0	21.34
16QAM	2577.5	37825	15	1	37	21.44
16QAM	2577.5	37825	15	1	74	20.92
16QAM	2577.5	37825	15	36	0	20.16
16QAM	2577.5	37825	15	36	29	19.87
16QAM	2577.5	37825	15	36	30	19.95
16QAM	2577.5	37825	15	75	0	20.02
16QAM	2595	38000	15	1	0	20.94
16QAM	2595	38000	15	1	37	21.38
16QAM	2595	38000	15	1	74	21.19
16QAM	2595	38000	15	36	0	19.81
16QAM	2595	38000	15	36	29	19.75
16QAM	2595	38000	15	36	30	19.77
16QAM	2595	38000	15	75	0	19.81
16QAM	2612.5	38175	15	1	0	21.33
16QAM	2612.5	38175	15	1	37	21.66
16QAM	2612.5	38175	15	1	74	21.37
16QAM	2612.5	38175	15	36	0	20.09
16QAM	2612.5	38175	15	36	29	20.20
16QAM	2612.5	38175	15	36	30	20.22
16QAM	2612.5	38175	15	75	0	20.18
64QAM	2577.5	37825	15	1	0	21.35
64QAM	2577.5	37825	15	1	37	20.36
64QAM	2577.5	37825	15	1	74	20.93
64QAM	2577.5	37825	15	36	0	20.13
64QAM	2577.5	37825	15	36	29	19.90
64QAM	2577.5	37825	15	36	30	19.90
64QAM	2577.5	37825	15	75	0	20.01
64QAM	2595	38000	15	1	0	20.83
64QAM	2595	38000	15	1	37	20.65
64QAM	2595	38000	15	1	74	21.12
64QAM	2595	38000	15	36	0	19.77
64QAM	2595	38000	15	36	29	19.78
64QAM	2595	38000	15	36	30	19.70
64QAM	2595	38000	15	75	0	19.78
64QAM	2612.5	38175	15	1	0	20.79
64QAM	2612.5	38175	15	1	37	21.62
64QAM	2612.5	38175	15	1	74	21.33
64QAM	2612.5	38175	15	36	0	20.04
64QAM	2612.5	38175	15	36	29	20.23
64QAM	2612.5	38175	15	36	30	20.20
64QAM	2612.5	38175	15	75	0	20.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	21.96
QPSK	2580	37850	20	1	49	22.00
QPSK	2580	37850	20	1	99	21.74
QPSK	2580	37850	20	50	0	21.05
QPSK	2580	37850	20	50	24	20.97
QPSK	2580	37850	20	50	50	20.86
QPSK	2580	37850	20	100	0	20.87
QPSK	2595	38000	20	1	0	21.83
QPSK	2595	38000	20	1	49	21.60
QPSK	2595	38000	20	1	99	21.74
QPSK	2595	38000	20	50	0	20.81
QPSK	2595	38000	20	50	24	20.77
QPSK	2595	38000	20	50	50	20.72
QPSK	2595	38000	20	100	0	20.86
QPSK	2610	38150	20	1	0	21.83
QPSK	2610	38150	20	1	49	22.00
QPSK	2610	38150	20	1	99	22.35
QPSK	2610	38150	20	50	0	21.00
QPSK	2610	38150	20	50	24	21.15
QPSK	2610	38150	20	50	50	21.20
QPSK	2610	38150	20	100	0	21.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2580	37850	20	1	0	21.17
16QAM	2580	37850	20	1	49	21.38
16QAM	2580	37850	20	1	99	21.27
16QAM	2580	37850	20	50	0	19.95
16QAM	2580	37850	20	50	24	20.02
16QAM	2580	37850	20	50	50	19.99
16QAM	2580	37850	20	100	0	19.89
16QAM	2595	38000	20	1	0	21.30
16QAM	2595	38000	20	1	49	20.93
16QAM	2595	38000	20	1	99	20.85
16QAM	2595	38000	20	50	0	19.81
16QAM	2595	38000	20	50	24	19.78
16QAM	2595	38000	20	50	50	19.71
16QAM	2595	38000	20	100	0	19.87
16QAM	2610	38150	20	1	0	21.53
16QAM	2610	38150	20	1	49	20.95
16QAM	2610	38150	20	1	99	21.43
16QAM	2610	38150	20	50	0	19.94
16QAM	2610	38150	20	50	24	20.16
16QAM	2610	38150	20	50	50	20.17
16QAM	2610	38150	20	100	0	19.99
64QAM	2580	37850	20	1	0	21.12
64QAM	2580	37850	20	1	49	21.22
64QAM	2580	37850	20	1	99	20.92
64QAM	2580	37850	20	50	0	20.06
64QAM	2580	37850	20	50	24	20.00
64QAM	2580	37850	20	50	50	19.89
64QAM	2580	37850	20	100	0	19.94
64QAM	2595	38000	20	1	0	20.96
64QAM	2595	38000	20	1	49	20.46
64QAM	2595	38000	20	1	99	20.91
64QAM	2595	38000	20	50	0	19.77
64QAM	2595	38000	20	50	24	19.78
64QAM	2595	38000	20	50	50	19.72
64QAM	2595	38000	20	100	0	19.79
64QAM	2610	38150	20	1	0	21.14
64QAM	2610	38150	20	1	49	21.37
64QAM	2610	38150	20	1	99	21.54
64QAM	2610	38150	20	50	0	19.91
64QAM	2610	38150	20	50	24	20.11
64QAM	2610	38150	20	50	50	20.28
64QAM	2610	38150	20	100	0	20.13

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	4.438	Fig.1
38	QPSK	2595	38000	5	25	0	4.449	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.472	Fig.3
38	QPSK	2575	37800	10	50	0	8.923	Fig.4
38	QPSK	2595	38000	10	50	0	8.929	Fig.5
38	QPSK	2615	38200	10	50	0	8.879	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.302	Fig.7
38	QPSK	2595	38000	15	75	0	13.309	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.359	Fig.9
38	QPSK	2580	37850	20	100	0	17.813	Fig.10
38	QPSK	2595	38000	20	100	0	17.863	Fig.11
38	QPSK	2610	38150	20	100	0	17.775	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	4.460	Fig.13
38	16QAM	2595	38000	5	25	0	4.456	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.410	Fig.15
38	16QAM	2575	37800	10	50	0	8.899	Fig.16
38	16QAM	2595	38000	10	50	0	8.918	Fig.17
38	16QAM	2615	38200	10	50	0	8.916	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.397	Fig.19
38	16QAM	2595	38000	15	75	0	13.395	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.066	Fig.21
38	16QAM	2580	37850	20	100	0	17.903	Fig.22
38	16QAM	2595	38000	20	100	0	17.780	Fig.23
38	16QAM	2610	38150	20	100	0	17.761	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	4.457	Fig.25
38	64QAM	2595	38000	5	25	0	4.457	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.459	Fig.27
38	64QAM	2575	37800	10	50	0	8.963	Fig.28
38	64QAM	2595	38000	10	50	0	8.938	Fig.29
38	64QAM	2615	38200	10	50	0	8.875	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.392	Fig.31
38	64QAM	2595	38000	15	75	0	13.402	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.342	Fig.33
38	64QAM	2580	37850	20	100	0	17.612	Fig.34
38	64QAM	2595	38000	20	100	0	17.733	Fig.35
38	64QAM	2610	38150	20	100	0	17.751	Fig.36

Test Mode: QPSK

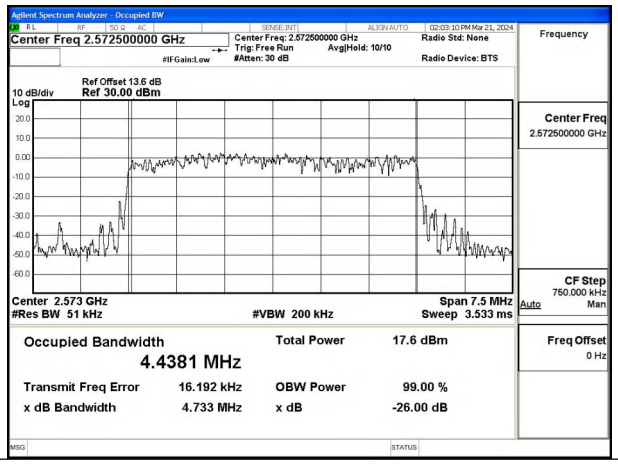


Fig.1

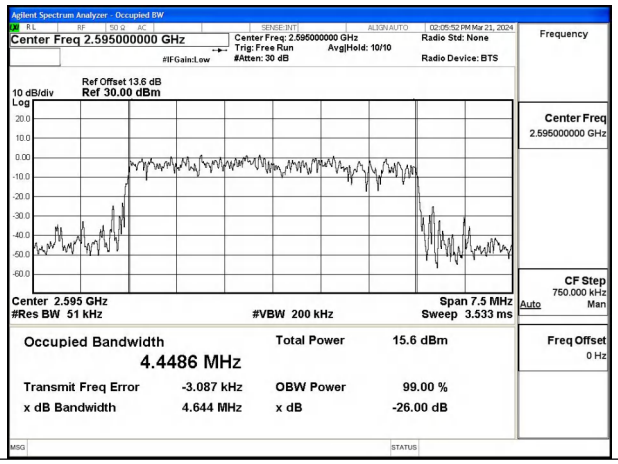


Fig.2

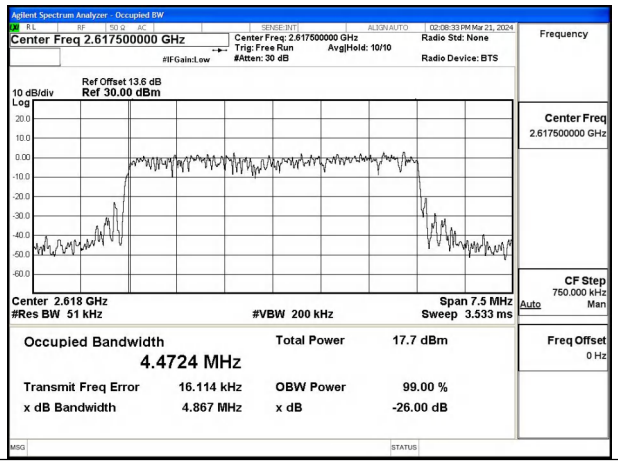


Fig.3

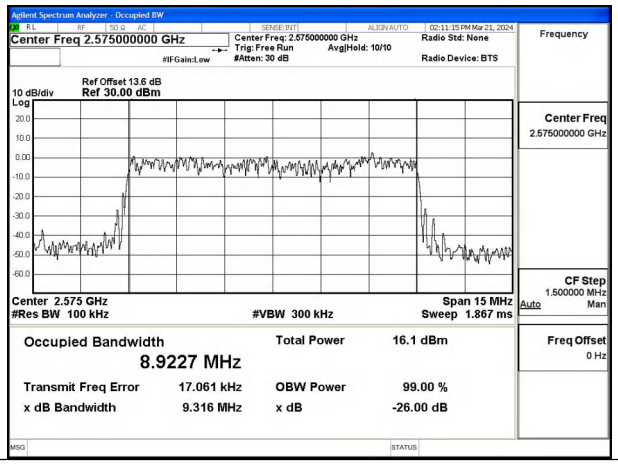


Fig.4

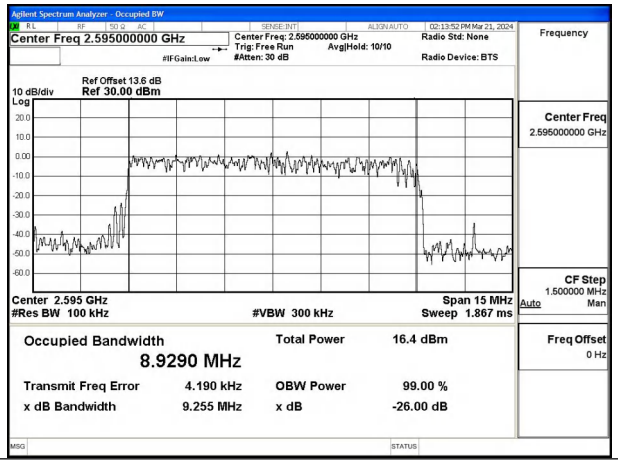


Fig.5

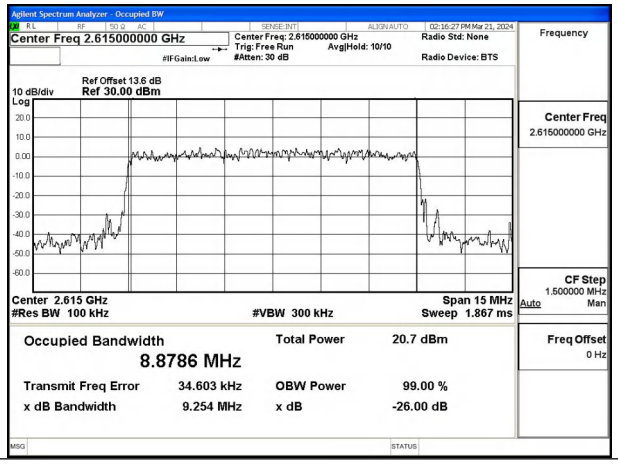


Fig.6

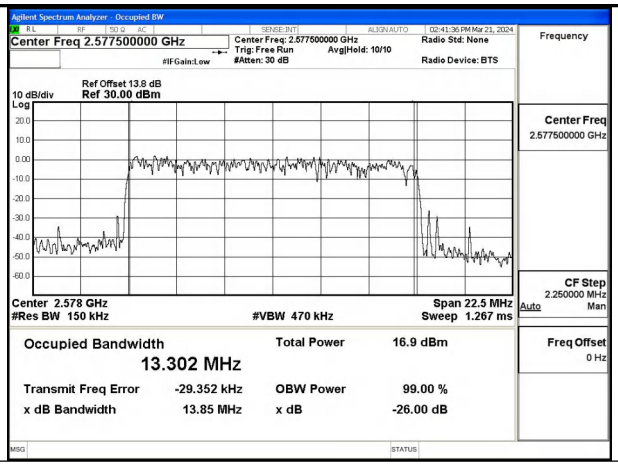


Fig.7

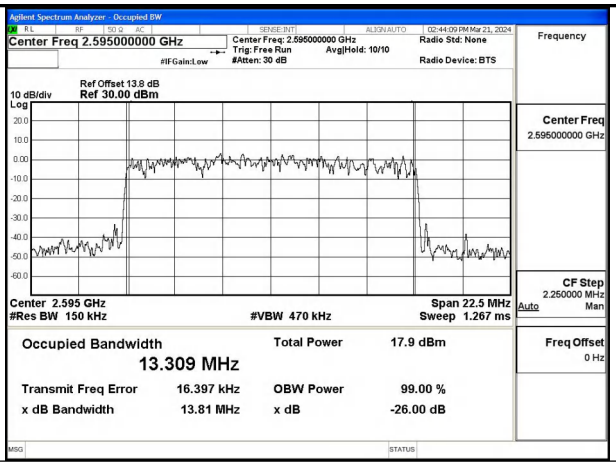


Fig.8

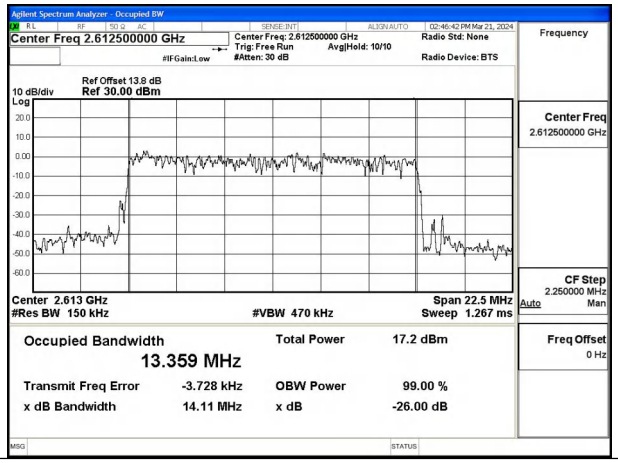


Fig.9

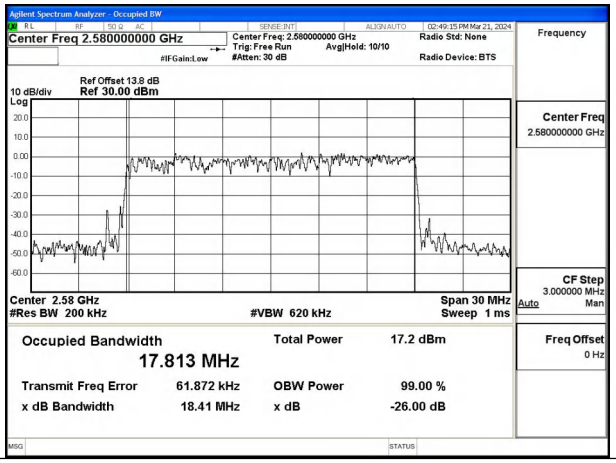


Fig.10

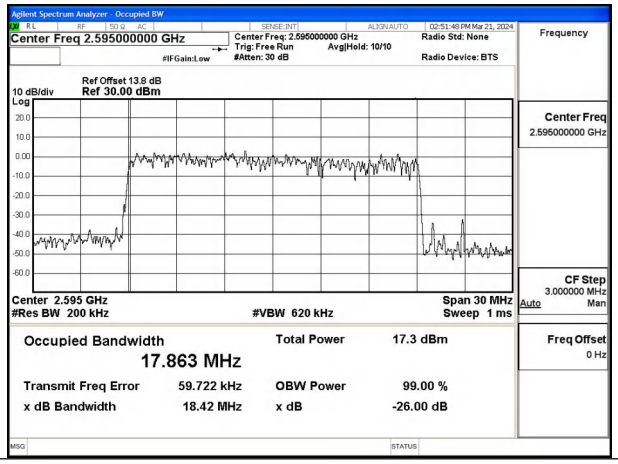


Fig.11

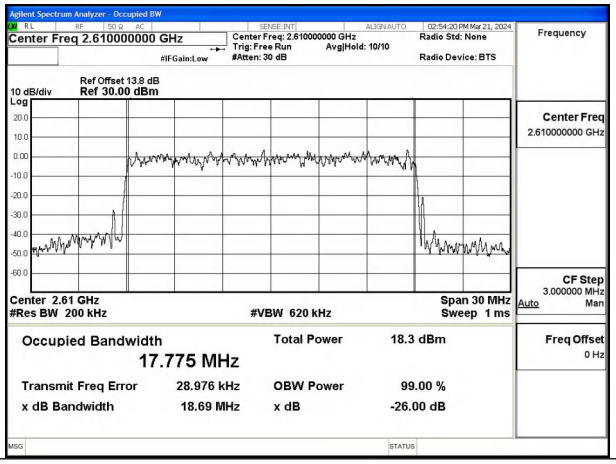


Fig.12

Test Mode: 16QAM

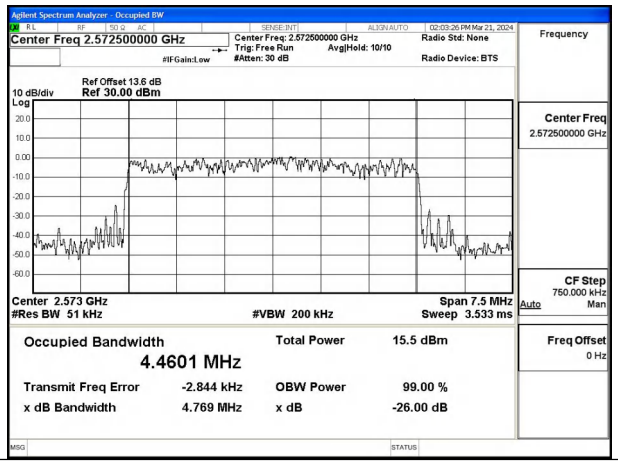


Fig.13

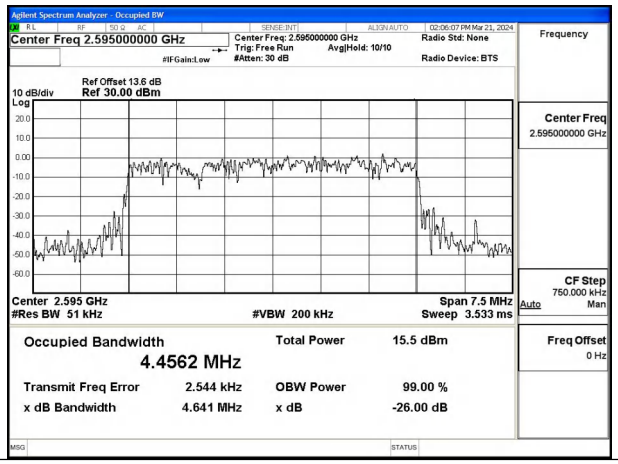
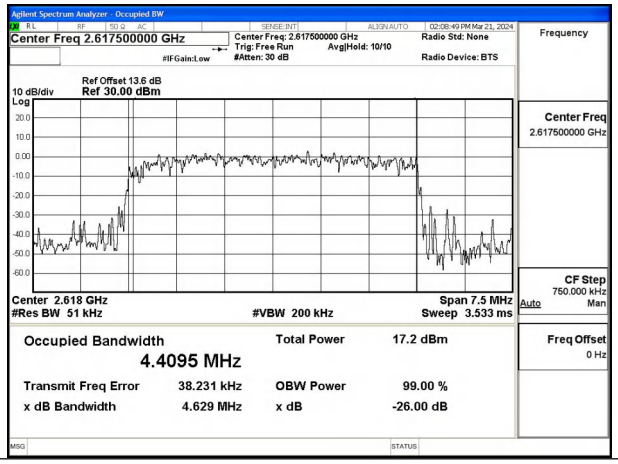


Fig.14



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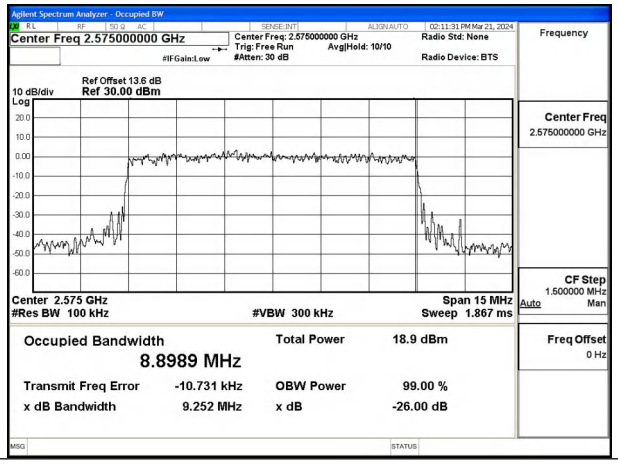
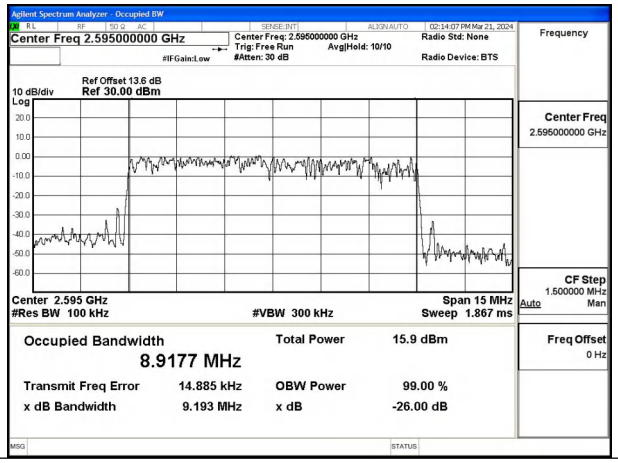


Fig.16



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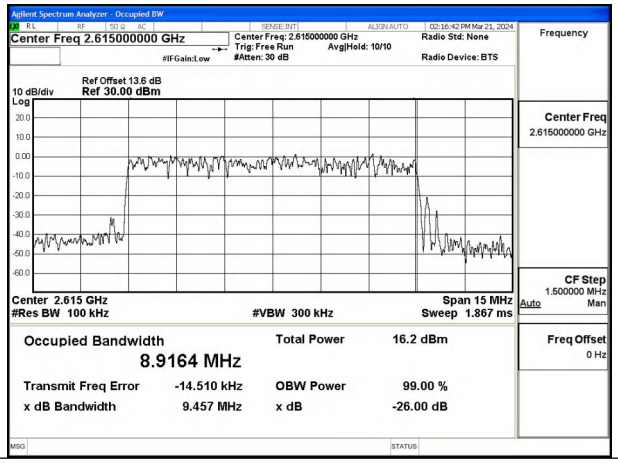

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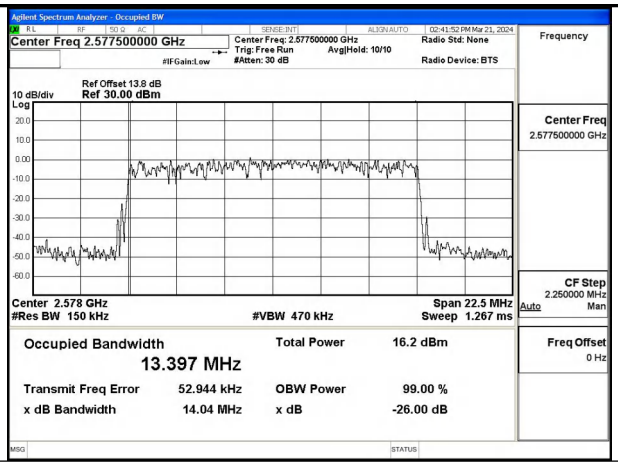

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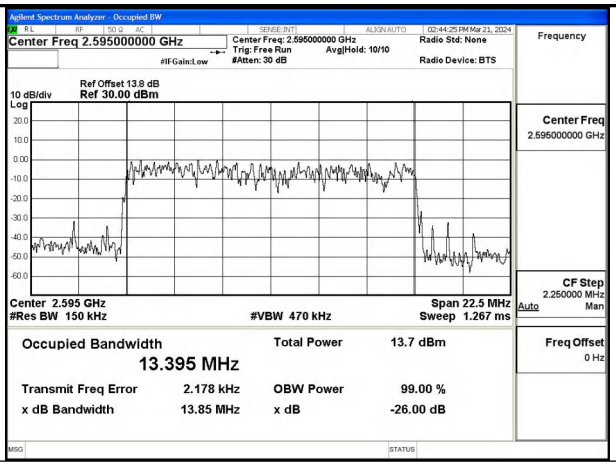

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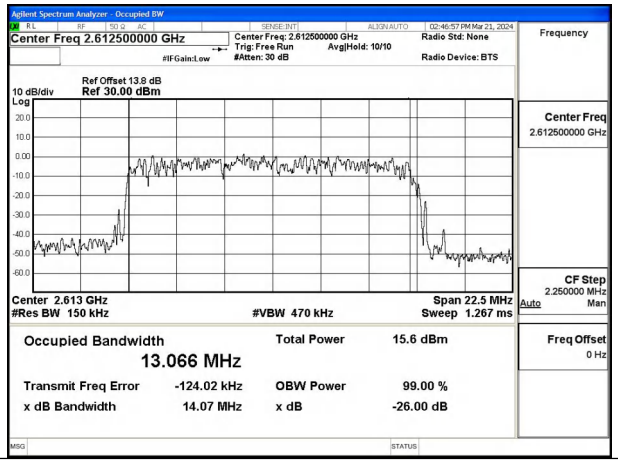

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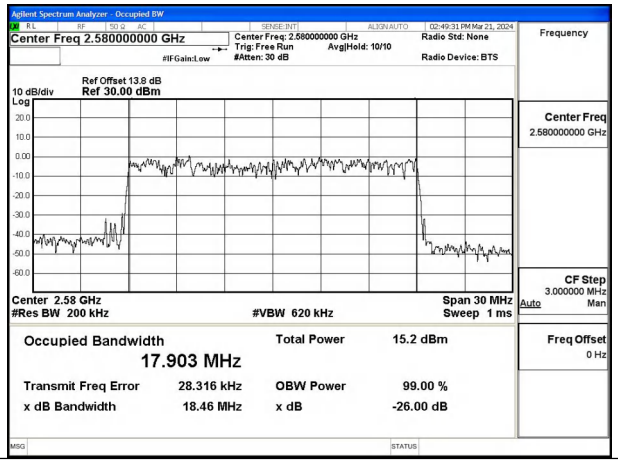

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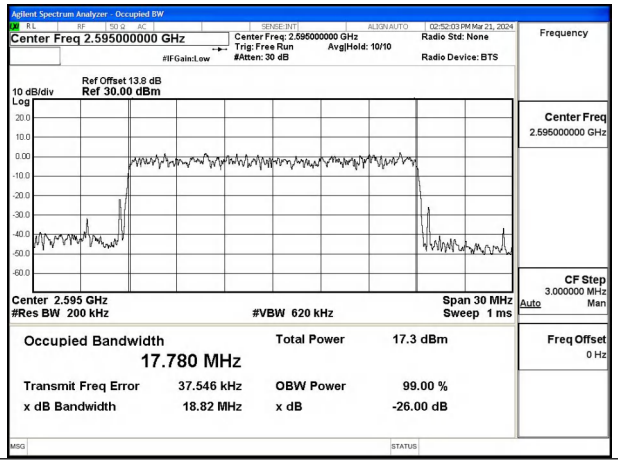

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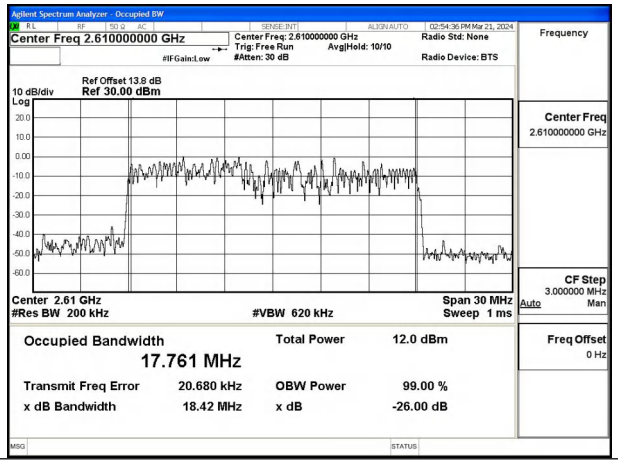


Fig.24

Test Mode: 64QAM

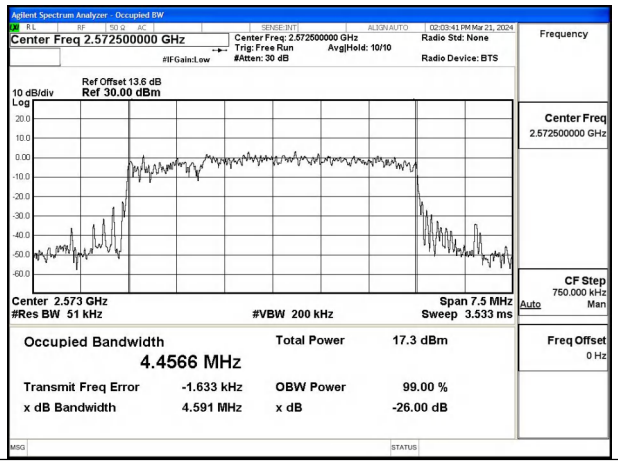


Fig.25

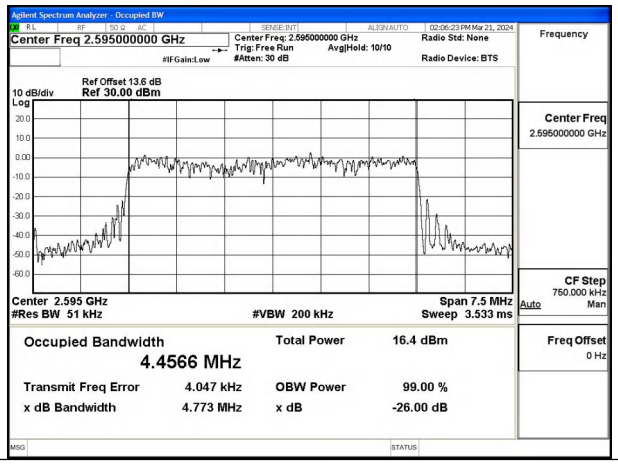


Fig.26

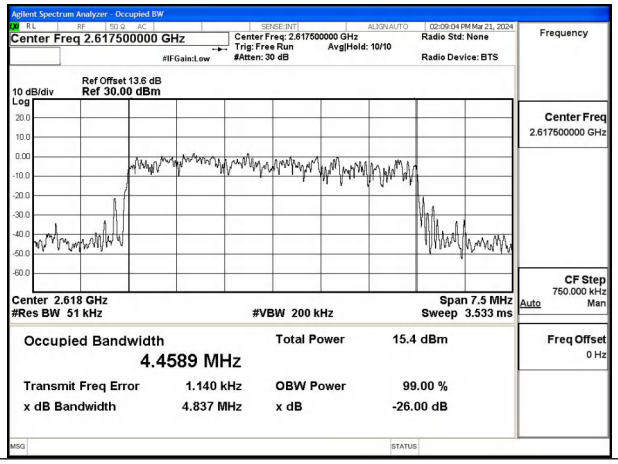
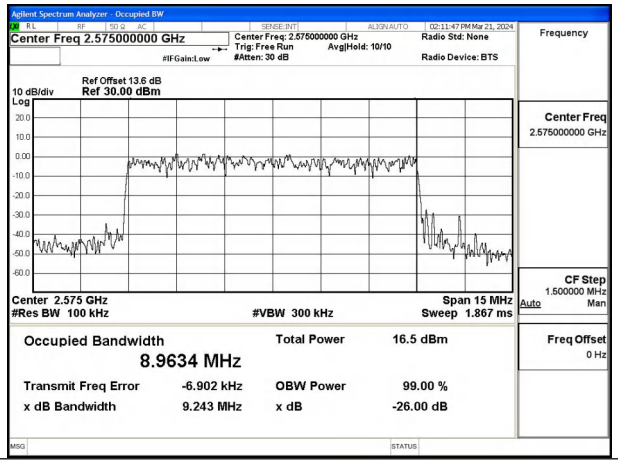


Fig.27



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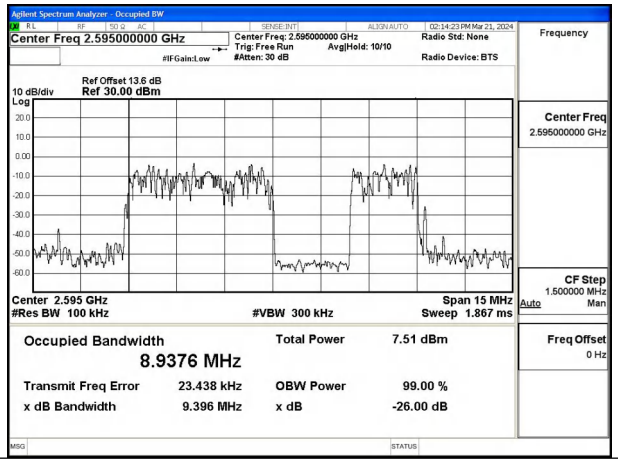

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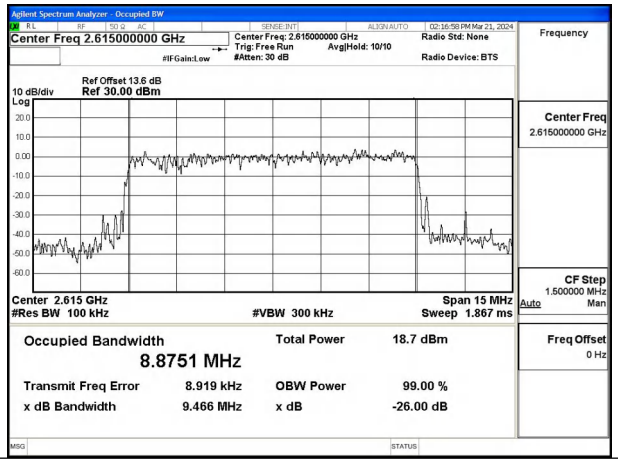

Fig.30

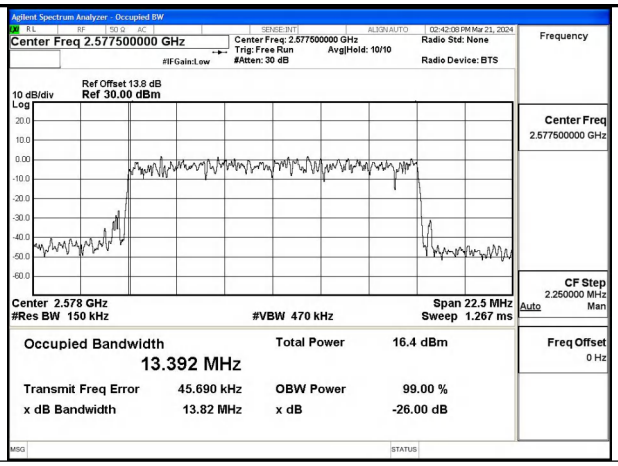

Fig.31

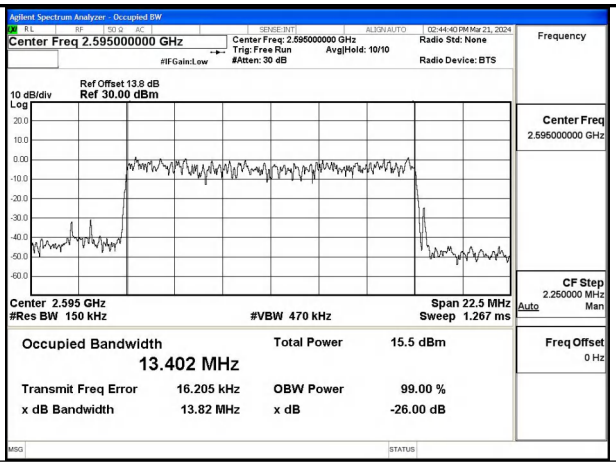

Fig.32

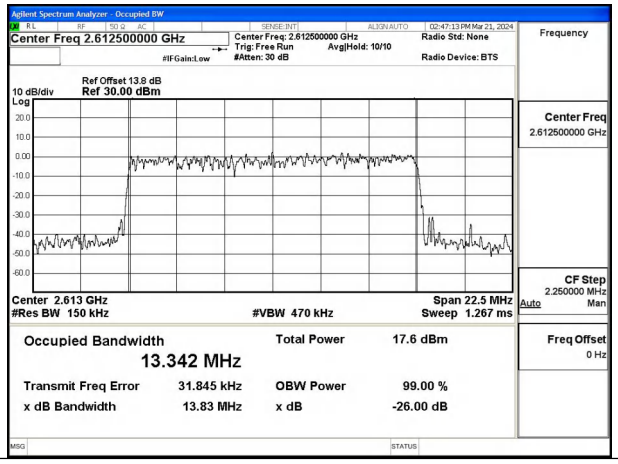

Fig.33

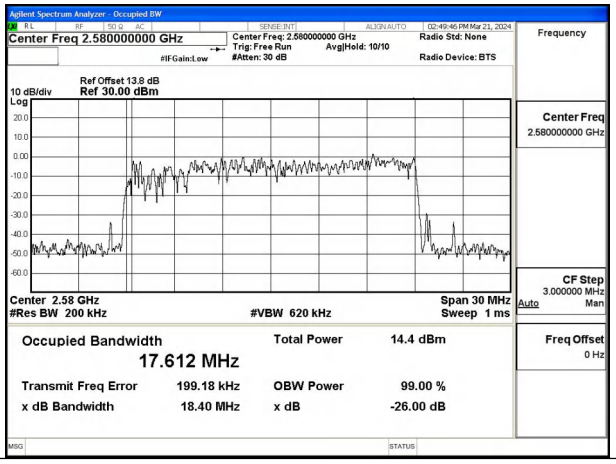

Fig.34

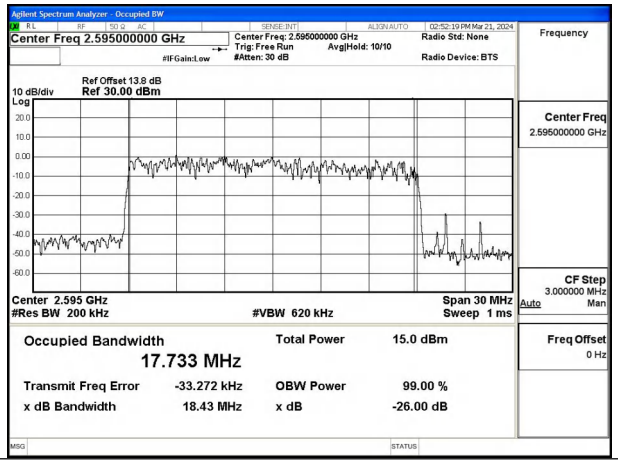

Fig.35

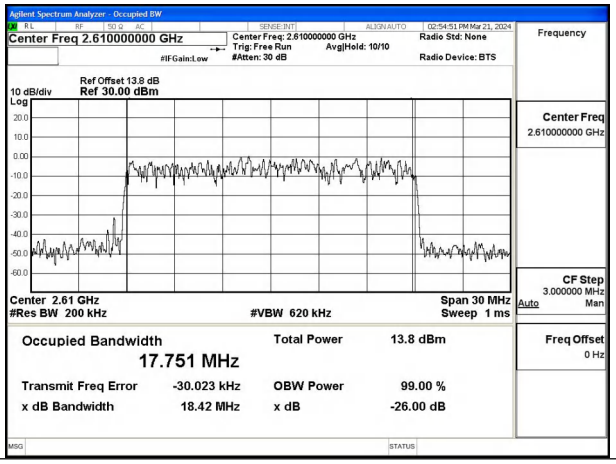

Fig.36

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	4.733	Fig.1
38	QPSK	2595	38000	5	25	0	4.644	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.867	Fig.3
38	QPSK	2575	37800	10	50	0	9.316	Fig.4
38	QPSK	2595	38000	10	50	0	9.255	Fig.5
38	QPSK	2615	38200	10	50	0	9.254	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.847	Fig.7
38	QPSK	2595	38000	15	75	0	13.811	Fig.8
38	QPSK	2612.5	38175	15	75	0	14.107	Fig.9
38	QPSK	2580	37850	20	100	0	18.406	Fig.10
38	QPSK	2595	38000	20	100	0	18.422	Fig.11
38	QPSK	2610	38150	20	100	0	18.694	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	4.769	Fig.13
38	16QAM	2595	38000	5	25	0	4.641	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.629	Fig.15
38	16QAM	2575	37800	10	50	0	9.252	Fig.16
38	16QAM	2595	38000	10	50	0	9.193	Fig.17
38	16QAM	2615	38200	10	50	0	9.457	Fig.18
38	16QAM	2577.5	37825	15	75	0	14.036	Fig.19
38	16QAM	2595	38000	15	75	0	13.847	Fig.20
38	16QAM	2612.5	38175	15	75	0	14.065	Fig.21
38	16QAM	2580	37850	20	100	0	18.459	Fig.22
38	16QAM	2595	38000	20	100	0	18.819	Fig.23
38	16QAM	2610	38150	20	100	0	18.419	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	4.591	Fig.25
38	64QAM	2595	38000	5	25	0	4.773	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.837	Fig.27
38	64QAM	2575	37800	10	50	0	9.243	Fig.28
38	64QAM	2595	38000	10	50	0	9.396	Fig.29
38	64QAM	2615	38200	10	50	0	9.466	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.824	Fig.31
38	64QAM	2595	38000	15	75	0	13.816	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.830	Fig.33
38	64QAM	2580	37850	20	100	0	18.395	Fig.34
38	64QAM	2595	38000	20	100	0	18.431	Fig.35
38	64QAM	2610	38150	20	100	0	18.419	Fig.36

Test Mode: QPSK

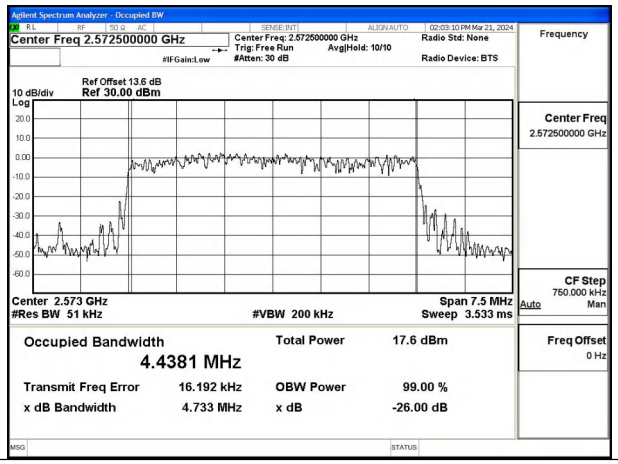

Fig.1

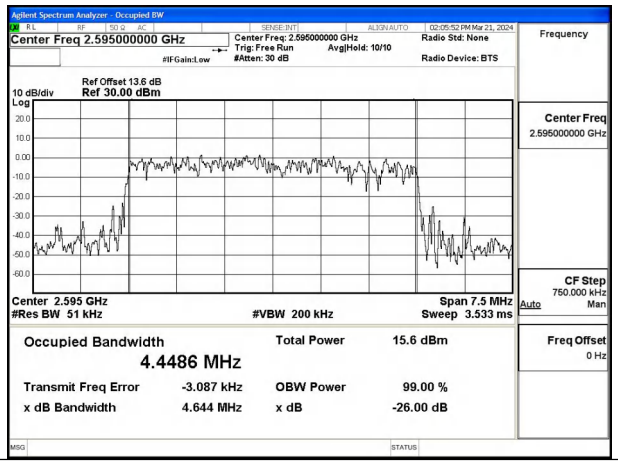

Fig.2

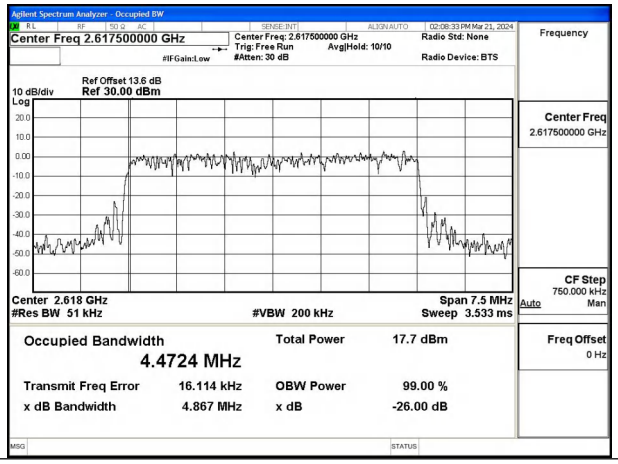

Fig.3

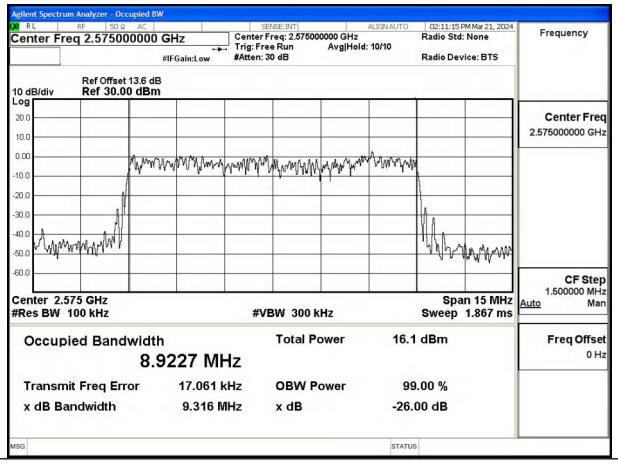

Fig.4

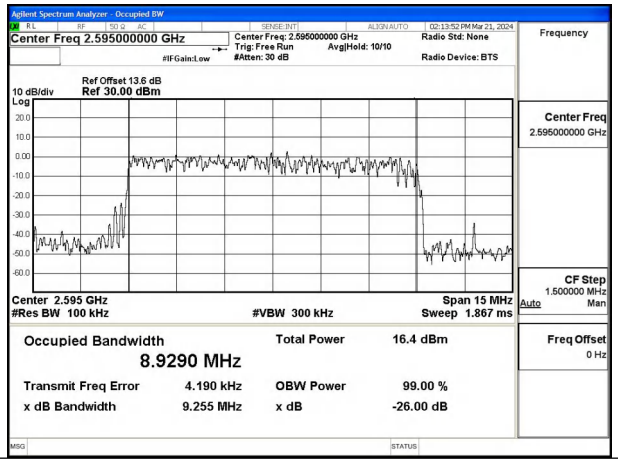

Fig.5

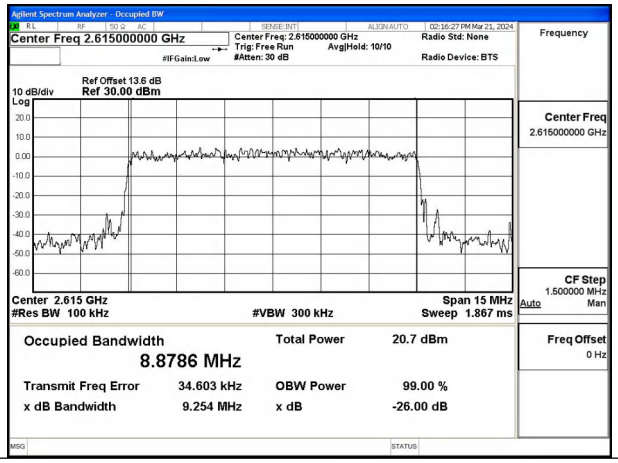

Fig.6

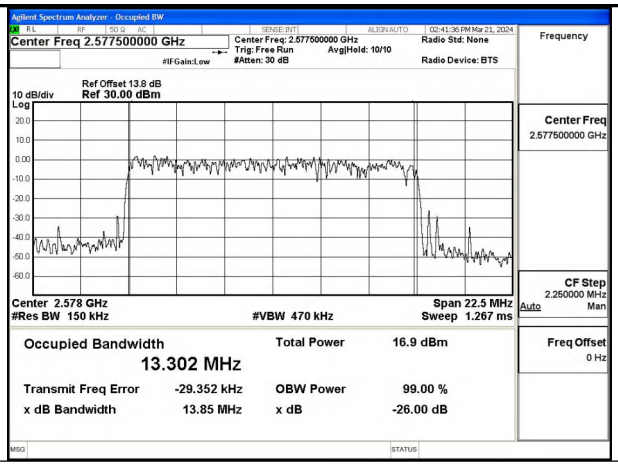

Fig.7

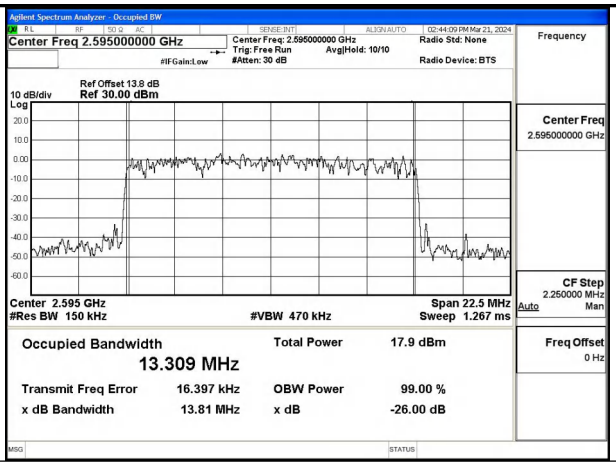

Fig.8

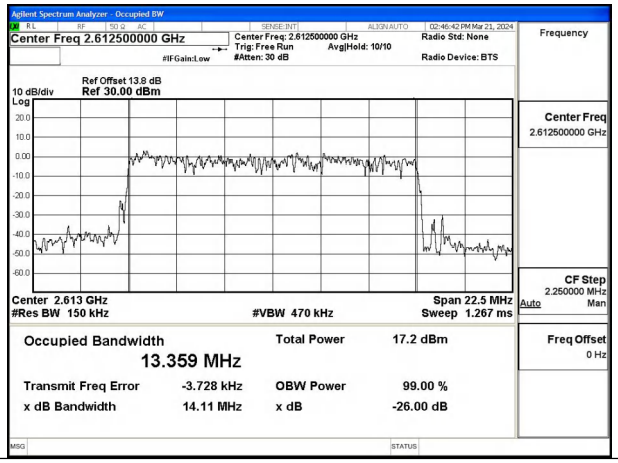

Fig.9

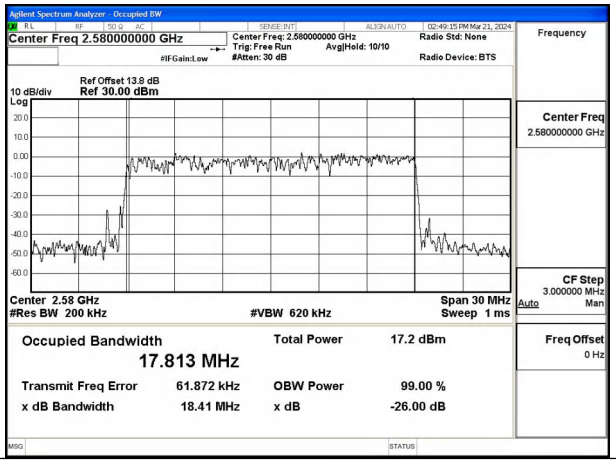

Fig.10

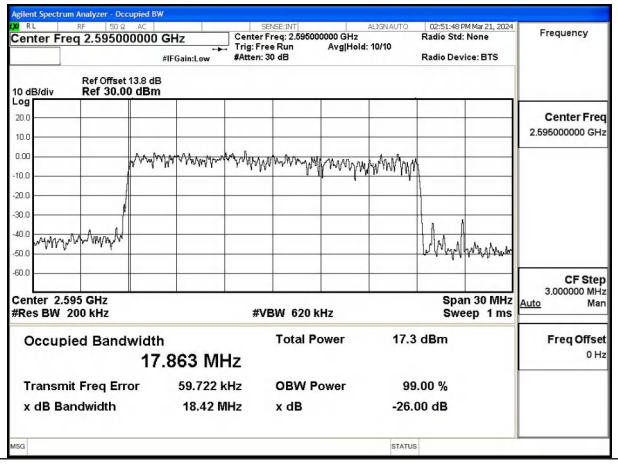

Fig.11

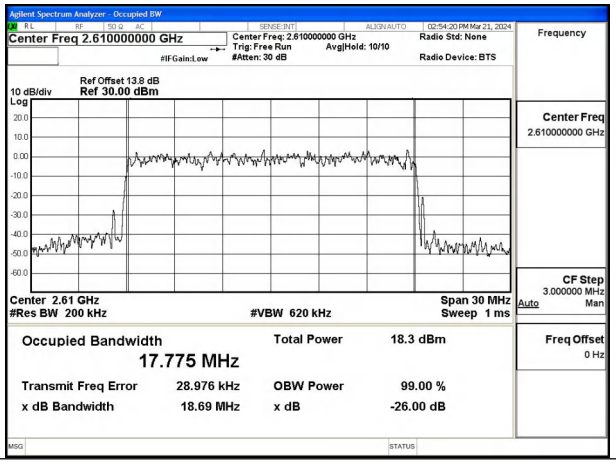

Fig.12

Test Mode: 16QAM

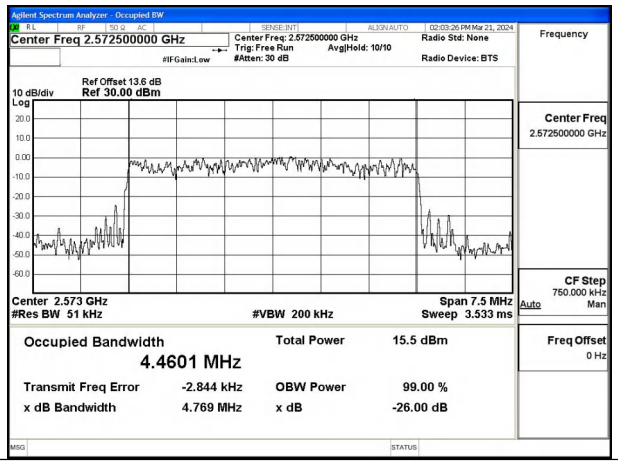

Fig.13

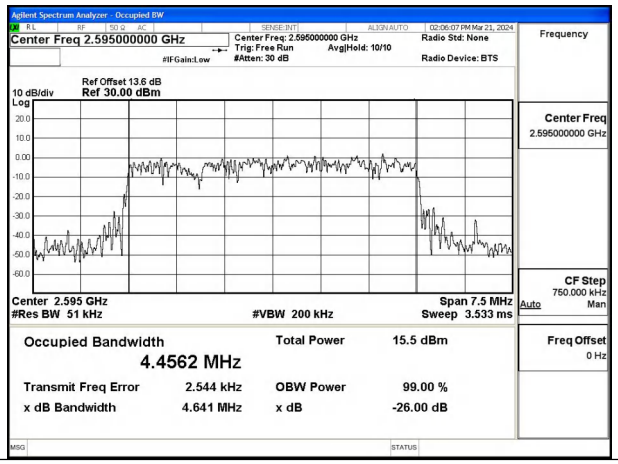

Fig.14

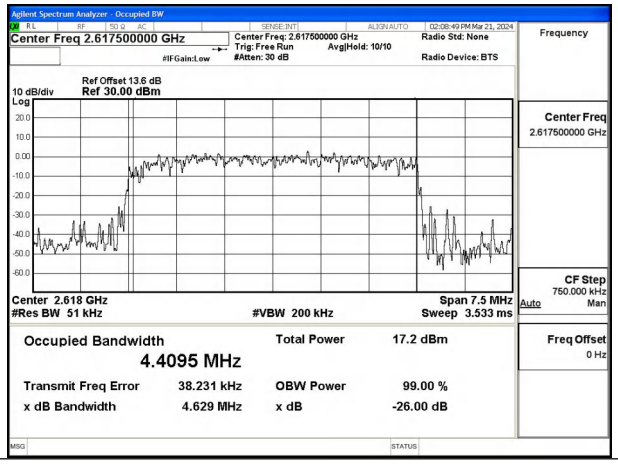

Fig.15

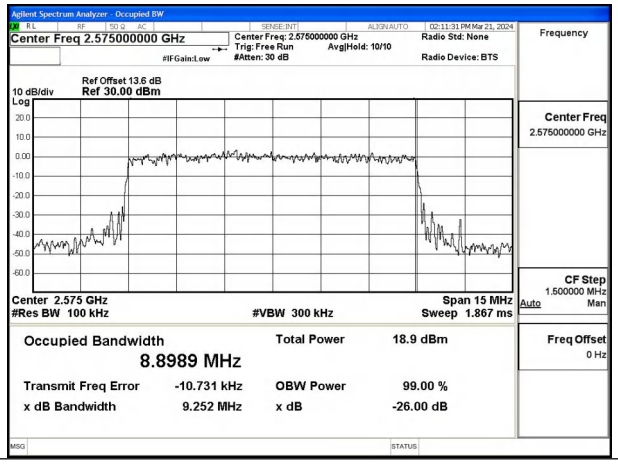

Fig.16

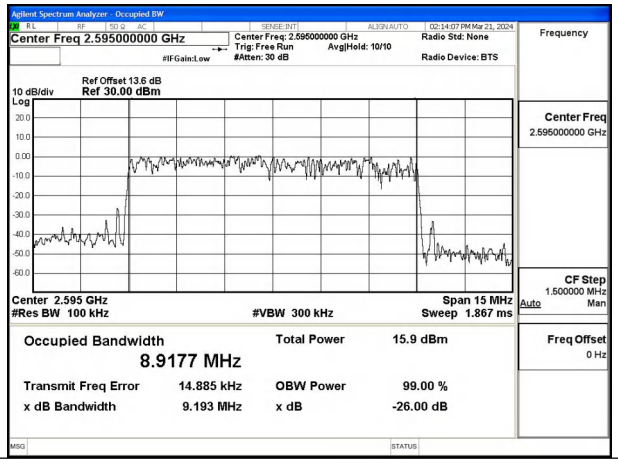

Fig.17

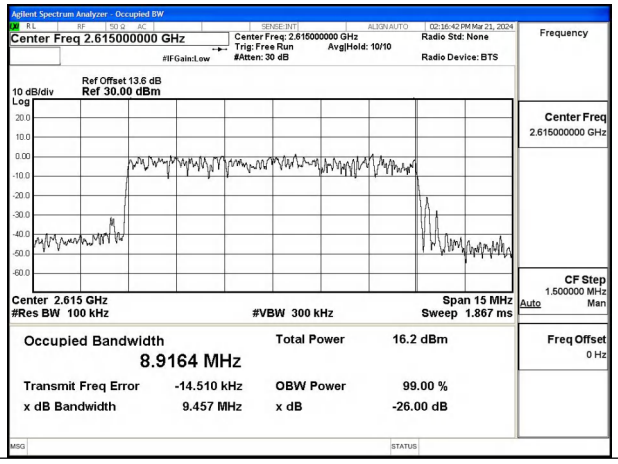

Fig.18

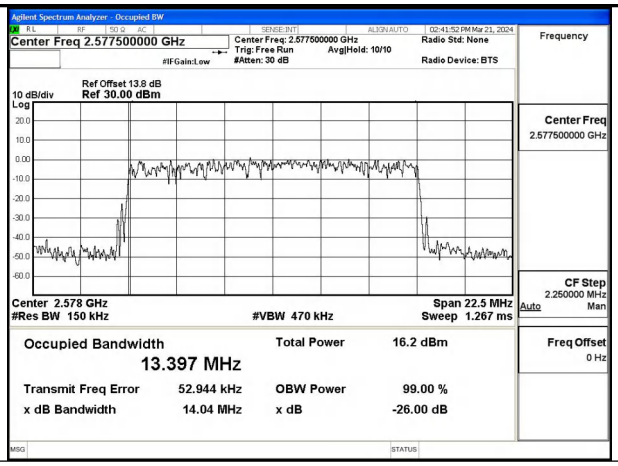

Fig.19

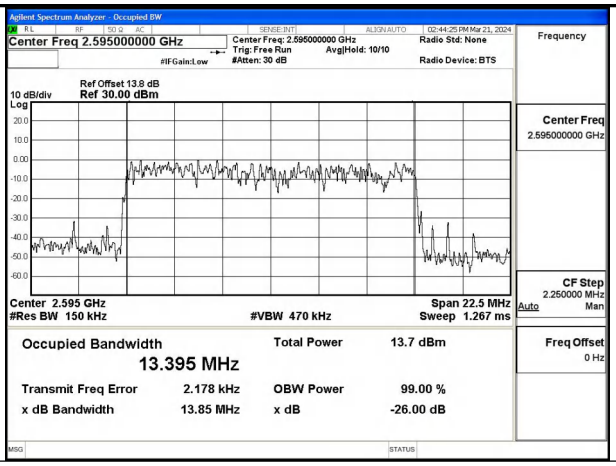

Fig.20

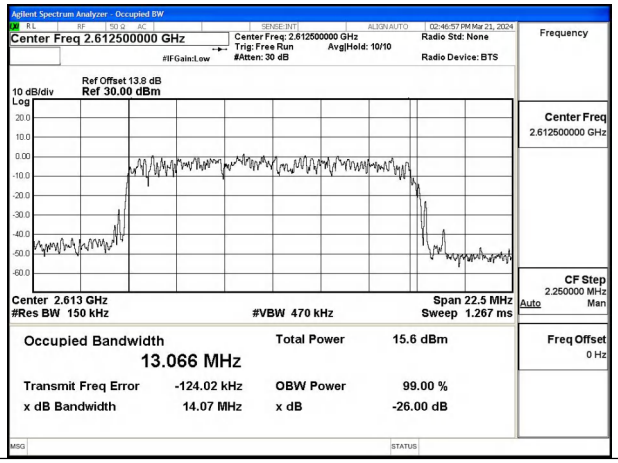

Fig.21

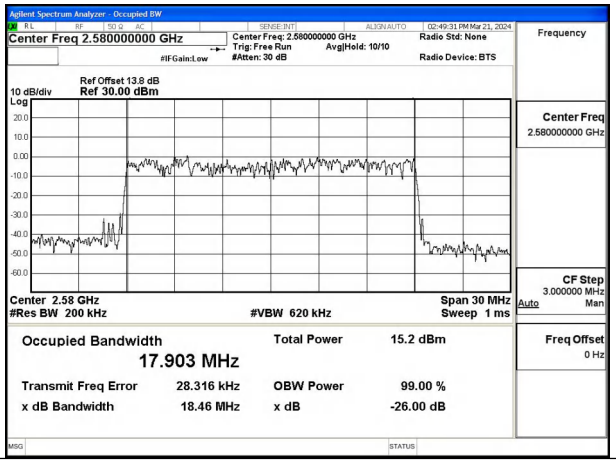

Fig.22

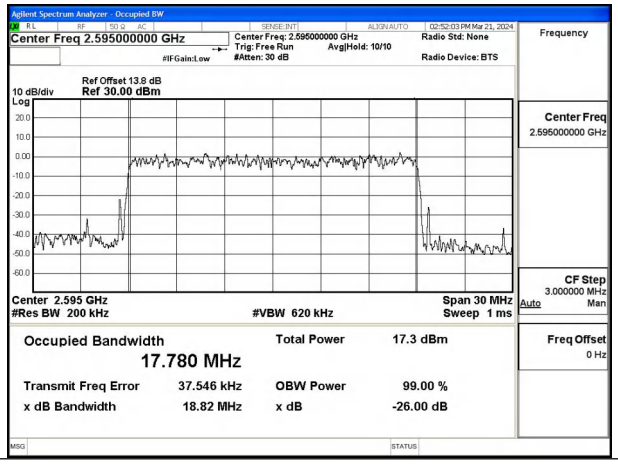

Fig.23

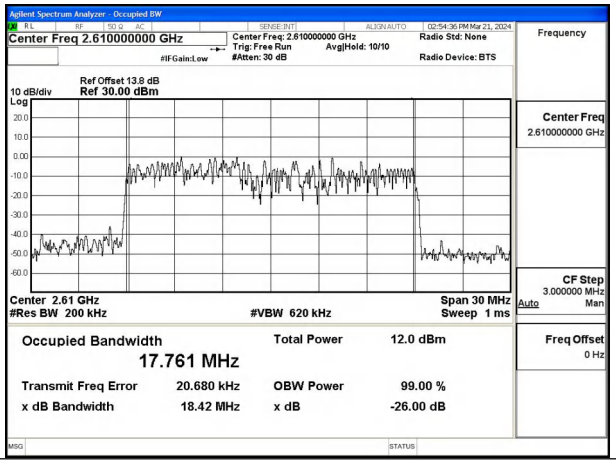

Fig.24

Test Mode: 64QAM

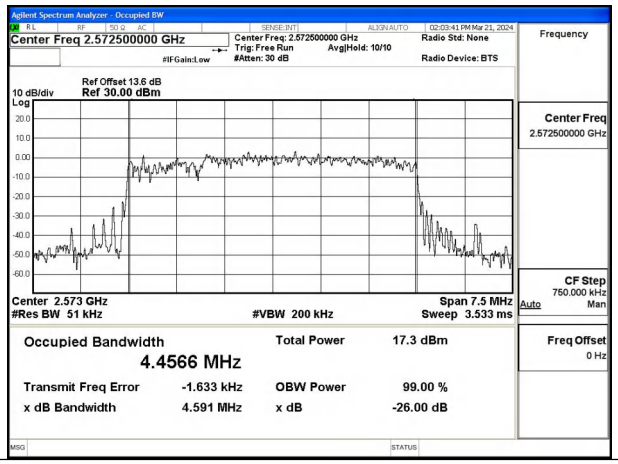

Fig.25

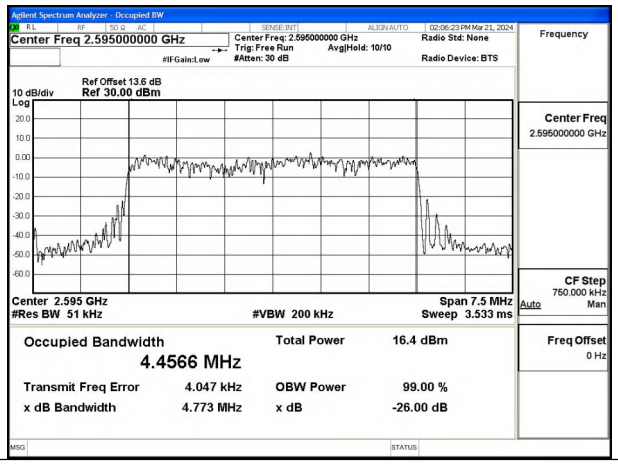

Fig.26

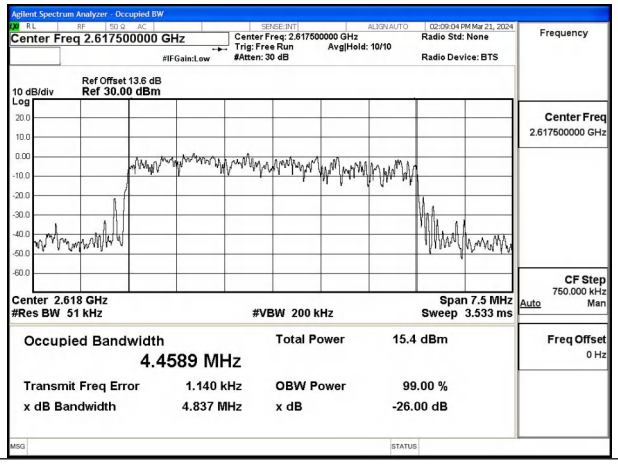

Fig.27

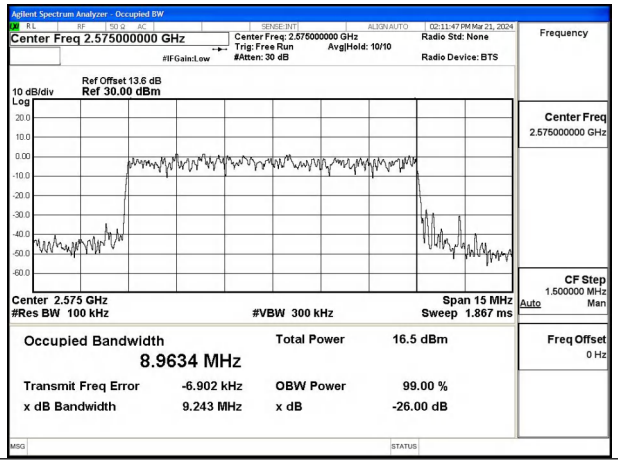

Fig.28

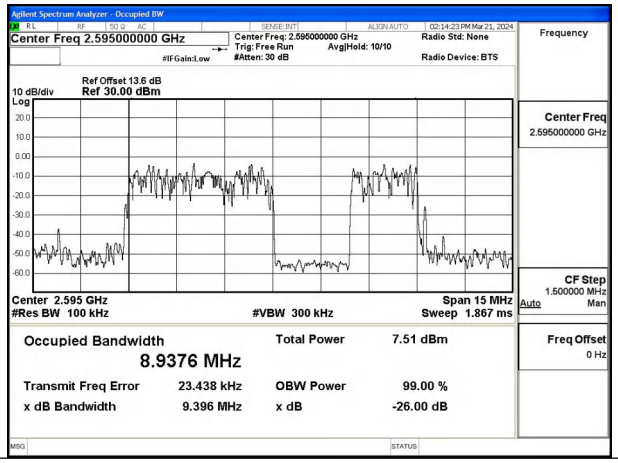

Fig.29

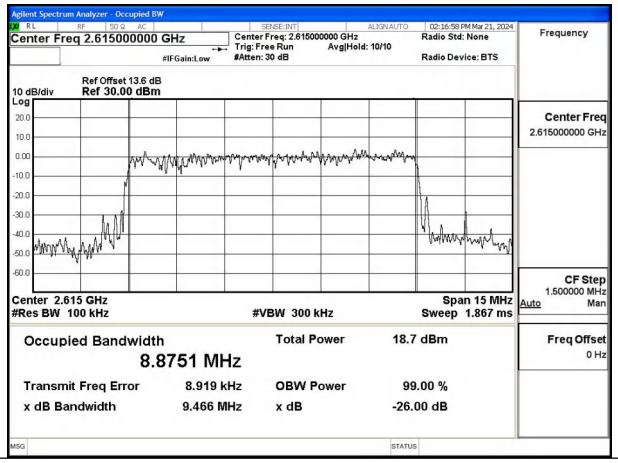

Fig.30