APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 7

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	22.90
QPSK	2502.5	20775	5	1	12	22.99
QPSK	2502.5	20775	5	1	24	22.90
QPSK	2502.5	20775	5	12	0	21.88
QPSK	2502.5	20775	5	12	7	22.03
QPSK	2502.5	20775	5	12	13	21.77
QPSK	2502.5	20775	5	25	0	21.98
QPSK	2535	21100	5	1	0	22.94
QPSK	2535	21100	5	1	12	22.90
QPSK	2535	21100	5	1	24	22.83
QPSK	2535	21100	5	12	0	21.97
QPSK	2535	21100	5	12	7	21.94
QPSK	2535	21100	5	12	13	21.84
QPSK	2535	21100	5	25	0	21.90
QPSK	2567.5	21425	5	1	0	22.74
QPSK	2567.5	21425	5	1	12	22.78
QPSK	2567.5	21425	5	1	24	22.67
QPSK	2567.5	21425	5	12	0	21.88
QPSK	2567.5	21425	5	12	7	21.81
QPSK	2567.5	21425	5	12	13	21.74
QPSK	2567.5	21425	5	25	0	21.85

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2502.5	20775	5	1	0	22.01
16QAM	2502.5	20775	5	1	12	22.16
16QAM	2502.5	20775	5	1	24	22.49
16QAM	2502.5	20775	5	12	0	21.13
16QAM	2502.5	20775	5	12	7	20.99
16QAM	2502.5	20775	5	12	13	20.88
16QAM	2502.5	20775	5	25	0	21.01
16QAM	2535	21100	5	1	0	22.20
16QAM	2535	21100	5	1	12	22.19
16QAM	2535	21100	5	1	24	21.98
16QAM	2535	21100	5	12	0	21.04
16QAM	2535	21100	5	12	7	20.77
16QAM	2535	21100	5	12	13	20.88
16QAM	2535	21100	5	25	0	20.99
16QAM	2567.5	21425	5	1	0	22.15
16QAM	2567.5	21425	5	1	12	21.77
16QAM	2567.5	21425	5	1	24	22.26
16QAM	2567.5	21425	5	12	0	20.86
16QAM	2567.5	21425	5	12	7	20.87
16QAM	2567.5	21425	5	12	13	20.56
16QAM	2567.5	21425	5	25	0	20.79
64QAM	2502.5	20775	5	1	0	22.23
64QAM	2502.5	20775	5	1	12	21.83
64QAM	2502.5	20775	5	1	24	21.83
64QAM	2502.5	20775	5	12	0	21.02
64QAM	2502.5	20775	5	12	7	20.98
64QAM	2502.5	20775	5	12	13	20.87
64QAM	2502.5	20775	5	25	0	21.02
64QAM	2535	21100	5	1	0	22.16
64QAM	2535	21100	5	1	12	21.99
64QAM	2535	21100	5	1	24	21.75
64QAM	2535	21100	5	12	0	20.92
64QAM	2535	21100	5	12	7	20.87
64QAM	2535	21100	5	12	13	20.79
64QAM	2535	21100	5	25	0	20.91
64QAM	2567.5	21425	5	1	0	22.05
64QAM	2567.5	21425	5	1	12	22.01
64QAM	2567.5	21425	5	1	24	21.83
64QAM	2567.5	21425	5	12	0	20.85
64QAM	2567.5	21425	5	12	7	20.82
64QAM	2567.5	21425	5	12	13	20.79
64QAM	2567.5	21425	5	25	0	20.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	22.81
QPSK	2505	20800	10	1	25	22.95
QPSK	2505	20800	10	1	49	23.01
QPSK	2505	20800	10	25	0	22.03
QPSK	2505	20800	10	25	12	22.08
QPSK	2505	20800	10	25	25	21.97
QPSK	2505	20800	10	50	0	21.99
QPSK	2535	21100	10	1	0	22.91
QPSK	2535	21100	10	1	25	22.99
QPSK	2535	21100	10	1	49	22.82
QPSK	2535	21100	10	25	0	21.97
QPSK	2535	21100	10	25	12	22.01
QPSK	2535	21100	10	25	25	21.93
QPSK	2535	21100	10	50	0	22.02
QPSK	2565	21400	10	1	0	22.49
QPSK	2565	21400	10	1	25	22.49
QPSK	2565	21400	10	1	49	22.22
QPSK	2565	21400	10	25	0	21.57
QPSK	2565	21400	10	25	12	21.42
QPSK	2565	21400	10	25	25	21.26
QPSK	2565	21400	10	50	0	21.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2505	20800	10	1	0	22.48
16QAM	2505	20800	10	1	25	22.09
16QAM	2505	20800	10	1	49	22.16
16QAM	2505	20800	10	25	0	21.04
16QAM	2505	20800	10	25	12	20.98
16QAM	2505	20800	10	25	25	20.94
16QAM	2505	20800	10	50	0	21.07
16QAM	2535	21100	10	1	0	22.50
16QAM	2535	21100	10	1	25	22.59
16QAM	2535	21100	10	1	49	22.49
16QAM	2535	21100	10	25	0	20.96
16QAM	2535	21100	10	25	12	21.00
16QAM	2535	21100	10	25	25	20.89
16QAM	2535	21100	10	50	0	20.90
16QAM	2565	21400	10	1	0	21.63
16QAM	2565	21400	10	1	25	21.90
16QAM	2565	21400	10	1	49	21.34
16QAM	2565	21400	10	25	0	20.51
16QAM	2565	21400	10	25	12	20.45
16QAM	2565	21400	10	25	25	20.31
16QAM	2565	21400	10	50	0	20.39
64QAM	2505	20800	10	1	0	22.06
64QAM	2505	20800	10	1	25	22.18
64QAM	2505	20800	10	1	49	22.07
64QAM	2505	20800	10	25	0	20.92
64QAM	2505	20800	10	25	12	21.11
64QAM	2505	20800	10	25	25	20.91
64QAM	2505	20800	10	50	0	21.01
64QAM	2535	21100	10	1	0	21.89
64QAM	2535	21100	10	1	25	21.87
64QAM	2535	21100	10	1	49	21.88
64QAM	2535	21100	10	25	0	21.00
64QAM	2535	21100	10	25	12	21.05
64QAM	2535	21100	10	25	25	20.86
64QAM	2535	21100	10	50	0	20.97
64QAM	2565	21400	10	1	0	21.82
64QAM	2565	21400	10	1	25	21.31
64QAM	2565	21400	10	1	49	21.49
64QAM	2565	21400	10	25	0	20.61
64QAM	2565	21400	10	25	12	20.43
64QAM	2565	21400	10	25	25	20.31
64QAM	2565	21400	10	50	0	20.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	22.70
QPSK	2507.5	20825	15	1	37	22.80
QPSK	2507.5	20825	15	1	74	22.71
QPSK	2507.5	20825	15	36	0	21.84
QPSK	2507.5	20825	15	36	29	21.72
QPSK	2507.5	20825	15	36	30	21.80
QPSK	2507.5	20825	15	75	0	21.75
QPSK	2535	21100	15	1	0	22.70
QPSK	2535	21100	15	1	37	22.71
QPSK	2535	21100	15	1	74	22.56
QPSK	2535	21100	15	36	0	21.80
QPSK	2535	21100	15	36	29	21.71
QPSK	2535	21100	15	36	30	21.78
QPSK	2535	21100	15	75	0	21.74
QPSK	2562.5	21375	15	1	0	22.89
QPSK	2562.5	21375	15	1	37	22.74
QPSK	2562.5	21375	15	1	74	22.56
QPSK	2562.5	21375	15	36	0	21.89
QPSK	2562.5	21375	15	36	29	21.71
QPSK	2562.5	21375	15	36	30	21.69
QPSK	2562.5	21375	15	75	0	21.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2507.5	20825	15	1	0	22.03
16QAM	2507.5	20825	15	1	37	21.67
16QAM	2507.5	20825	15	1	74	21.74
16QAM	2507.5	20825	15	36	0	20.83
16QAM	2507.5	20825	15	36	29	20.88
16QAM	2507.5	20825	15	36	30	20.77
16QAM	2507.5	20825	15	75	0	20.77
16QAM	2535	21100	15	1	0	21.76
16QAM	2535	21100	15	1	37	21.59
16QAM	2535	21100	15	1	74	21.96
16QAM	2535	21100	15	36	0	20.95
16QAM	2535	21100	15	36	29	20.78
16QAM	2535	21100	15	36	30	20.87
16QAM	2535	21100	15	75	0	20.68
16QAM	2562.5	21375	15	1	0	22.24
16QAM	2562.5	21375	15	1	37	22.02
16QAM	2562.5	21375	15	1	74	21.68
16QAM	2562.5	21375	15	36	0	20.99
16QAM	2562.5	21375	15	36	29	20.73
16QAM	2562.5	21375	15	36	30	20.78
16QAM	2562.5	21375	15	75	0	20.85
64QAM	2507.5	20825	15	1	0	21.61
64QAM	2507.5	20825	15	1	37	21.63
64QAM	2507.5	20825	15	1	74	22.34
64QAM	2507.5	20825	15	36	0	20.97
64QAM	2507.5	20825	15	36	29	20.87
64QAM	2507.5	20825	15	36	30	20.77
64QAM	2507.5	20825	15	75	0	20.73
64QAM	2535	21100	15	1	0	21.67
64QAM	2535	21100	15	1	37	21.82
64QAM	2535	21100	15	1	74	21.50
64QAM	2535	21100	15	36	0	20.73
64QAM	2535	21100	15	36	29	20.70
64QAM	2535	21100	15	36	30	20.73
64QAM	2535	21100	15	75	0	20.73
64QAM	2562.5	21375	15	1	0	22.25
64QAM	2562.5	21375	15	1	37	22.05
64QAM	2562.5	21375	15	1	74	21.59
64QAM	2562.5	21375	15	36	0	20.99
64QAM	2562.5	21375	15	36	29	20.68
64QAM	2562.5	21375	15	36	30	20.64
64QAM	2562.5	21375	15	75	0	20.80

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	22.81
QPSK	2510	20850	20	1	49	22.77
QPSK	2510	20850	20	1	99	22.78
QPSK	2510	20850	20	50	0	21.87
QPSK	2510	20850	20	50	24	21.79
QPSK	2510	20850	20	50	50	22.12
QPSK	2510	20850	20	100	0	21.84
QPSK	2535	21100	20	1	0	22.73
QPSK	2535	21100	20	1	49	22.66
QPSK	2535	21100	20	1	99	22.59
QPSK	2535	21100	20	50	0	21.84
QPSK	2535	21100	20	50	24	21.82
QPSK	2535	21100	20	50	50	21.74
QPSK	2535	21100	20	100	0	21.80
QPSK	2560	21350	20	1	0	23.00
QPSK	2560	21350	20	1	49	22.80
QPSK	2560	21350	20	1	99	22.44
QPSK	2560	21350	20	50	0	22.07
QPSK	2560	21350	20	50	24	21.92
QPSK	2560	21350	20	50	50	21.77
QPSK	2560	21350	20	100	0	21.94

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2510	20850	20	1	0	21.88
16QAM	2510	20850	20	1	49	21.92
16QAM	2510	20850	20	1	99	22.00
16QAM	2510	20850	20	50	0	20.85
16QAM	2510	20850	20	50	24	20.77
16QAM	2510	20850	20	50	50	21.08
16QAM	2510	20850	20	100	0	20.89
16QAM	2535	21100	20	1	0	21.97
16QAM	2535	21100	20	1	49	22.15
16QAM	2535	21100	20	1	99	22.05
16QAM	2535	21100	20	50	0	20.91
16QAM	2535	21100	20	50	24	20.96
16QAM	2535	21100	20	50	50	20.72
16QAM	2535	21100	20	100	0	20.74
16QAM	2560	21350	20	1	0	22.34
16QAM	2560	21350	20	1	49	22.03
16QAM	2560	21350	20	1	99	21.71
16QAM	2560	21350	20	50	0	21.03
16QAM	2560	21350	20	50	24	20.96
16QAM	2560	21350	20	50	50	20.64
16QAM	2560	21350	20	100	0	20.92
64QAM	2510	20850	20	1	0	21.85
64QAM	2510	20850	20	1	49	21.78
64QAM	2510	20850	20	1	99	21.93
64QAM	2510	20850	20	50	0	20.83
64QAM	2510	20850	20	50	24	20.88
64QAM	2510	20850	20	50	50	20.84
64QAM	2510	20850	20	100	0	20.87
64QAM	2535	21100	20	1	0	21.81
64QAM	2535	21100	20	1	49	21.82
64QAM	2535	21100	20	1	99	21.26
64QAM	2535	21100	20	50	0	20.86
64QAM	2535	21100	20	50	24	20.81
64QAM	2535	21100	20	50	50	20.73
64QAM	2535	21100	20	100	0	20.71
64QAM	2560	21350	20	1	0	22.23
64QAM	2560	21350	20	1	49	21.89
64QAM	2560	21350	20	1	99	21.41
64QAM	2560	21350	20	50	0	21.08
64QAM	2560	21350	20	50	24	20.99
64QAM	2560	21350	20	50	50	20.73
64QAM	2560	21350	20	100	0	20.90

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
7	QPSK	2502.5	20775	5	25	0	4.457	Fig.1
7	QPSK	2535	21100	5	25	0	4.456	Fig.2
7	QPSK	2567.5	21425	5	25	0	4.471	Fig.3
7	QPSK	2505	20800	10	50	0	8.949	Fig.4
7	QPSK	2535	21100	10	50	0	8.923	Fig.5
7	QPSK	2565	21400	10	50	0	8.907	Fig.6
7	QPSK	2507.5	20825	15	75	0	13.414	Fig.7
7	QPSK	2535	21100	15	75	0	13.386	Fig.8
7	QPSK	2562.5	21375	15	75	0	13.387	Fig.9
7	QPSK	2510	20850	20	100	0	17.865	Fig.10
7	QPSK	2535	21100	20	100	0	17.805	Fig.11
7	QPSK	2560	21350	20	100	0	17.856	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
7	16QAM	2502.5	20775	5	25	0	4.463	Fig.13
7	16QAM	2535	21100	5	25	0	4.457	Fig.14
7	16QAM	2567.5	21425	5	25	0	4.464	Fig.15
7	16QAM	2505	20800	10	50	0	8.922	Fig.16
7	16QAM	2535	21100	10	50	0	8.958	Fig.17
7	16QAM	2565	21400	10	50	0	8.915	Fig.18
7	16QAM	2507.5	20825	15	75	0	13.392	Fig.19
7	16QAM	2535	21100	15	75	0	13.361	Fig.20
7	16QAM	2562.5	21375	15	75	0	13.390	Fig.21
7	16QAM	2510	20850	20	100	0	17.875	Fig.22
7	16QAM	2535	21100	20	100	0	17.833	Fig.23
7	16QAM	2560	21350	20	100	0	17.847	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
7	64QAM	2502.5	20775	5	25	0	4.468	Fig.25
7	64QAM	2535	21100	5	25	0	4.450	Fig.26
7	64QAM	2567.5	21425	5	25	0	4.462	Fig.27
7	64QAM	2505	20800	10	50	0	8.903	Fig.28
7	64QAM	2535	21100	10	50	0	8.941	Fig.29
7	64QAM	2565	21400	10	50	0	8.935	Fig.30
7	64QAM	2507.5	20825	15	75	0	13.349	Fig.31
7	64QAM	2535	21100	15	75	0	13.372	Fig.32
7	64QAM	2562.5	21375	15	75	0	13.380	Fig.33
7	64QAM	2510	20850	20	100	0	17.823	Fig.34
7	64QAM	2535	21100	20	100	0	17.859	Fig.35
7	64QAM	2560	21350	20	100	0	17.762	Fig.36

Test Mode: QPSK

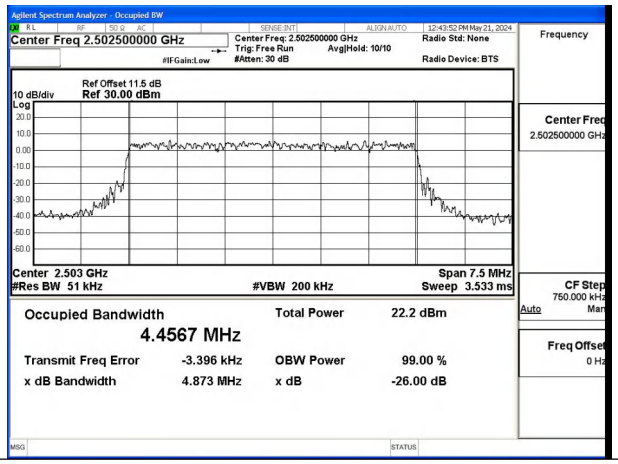


Fig.1

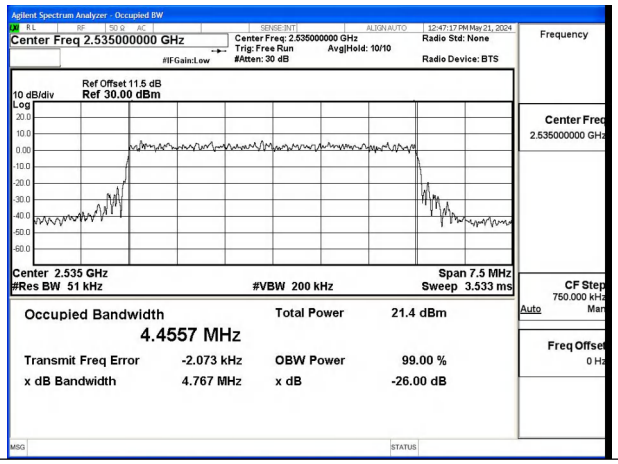


Fig.2

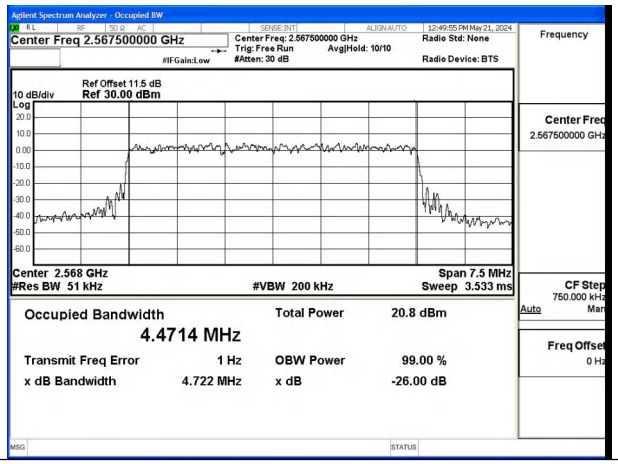


Fig.3

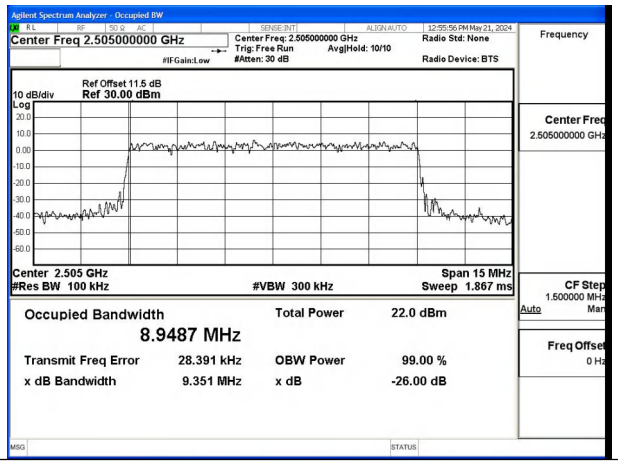


Fig.4

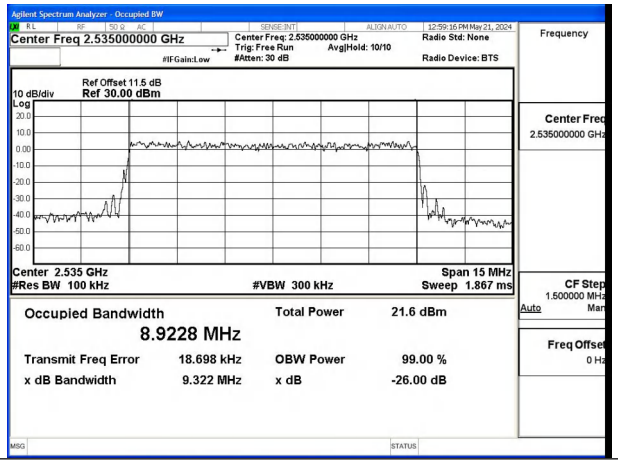


Fig.5

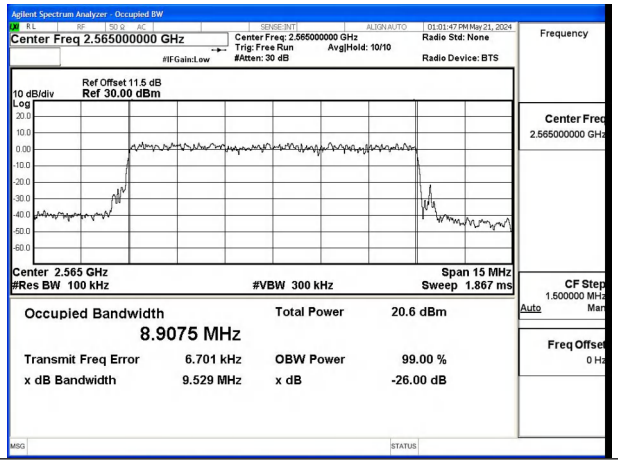


Fig.6

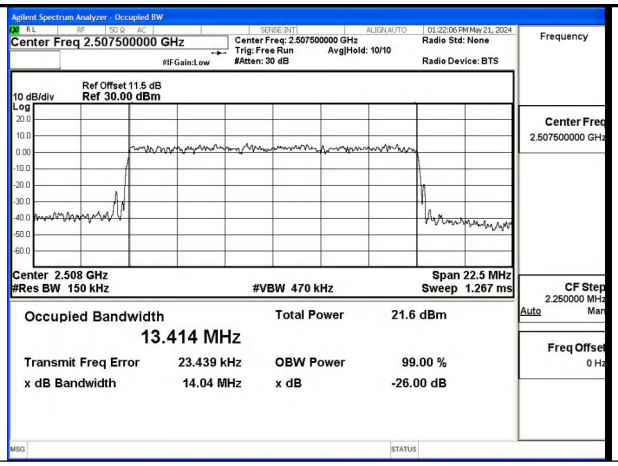


Fig.7

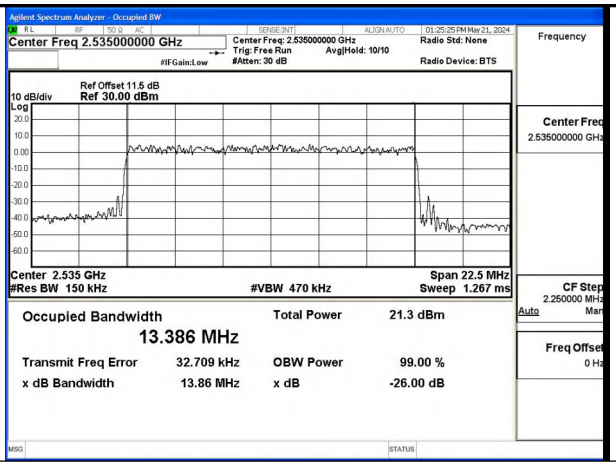


Fig.8

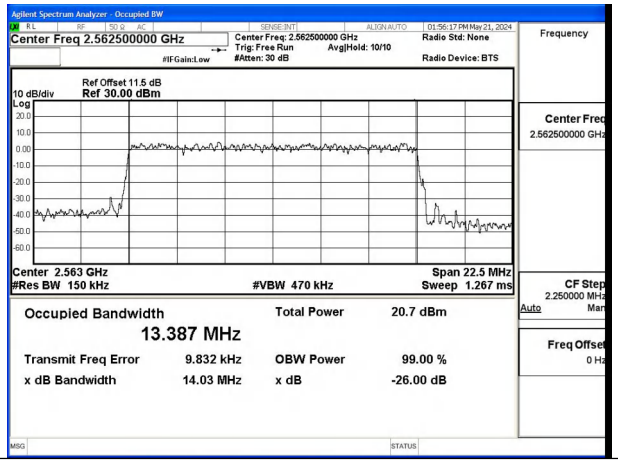


Fig.9

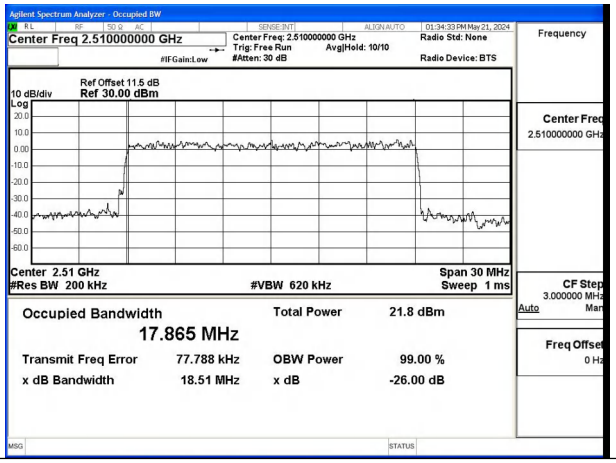


Fig.10

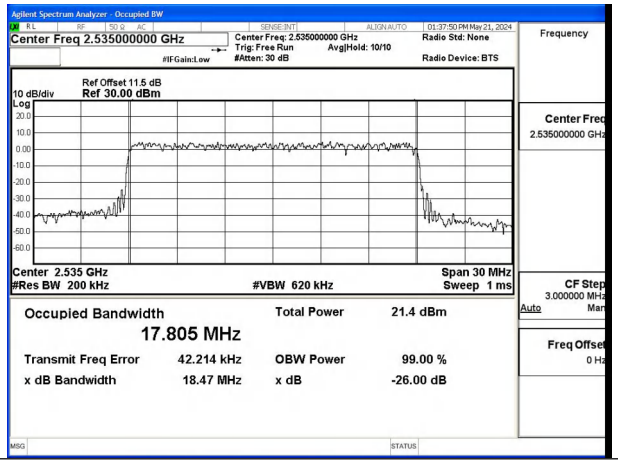


Fig.11

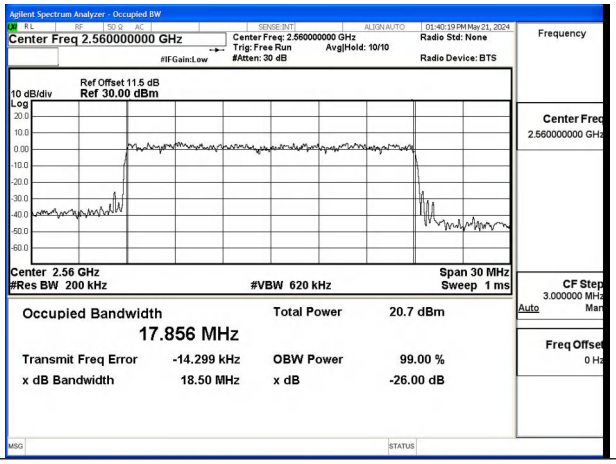


Fig.12

Test Mode: 16QAM

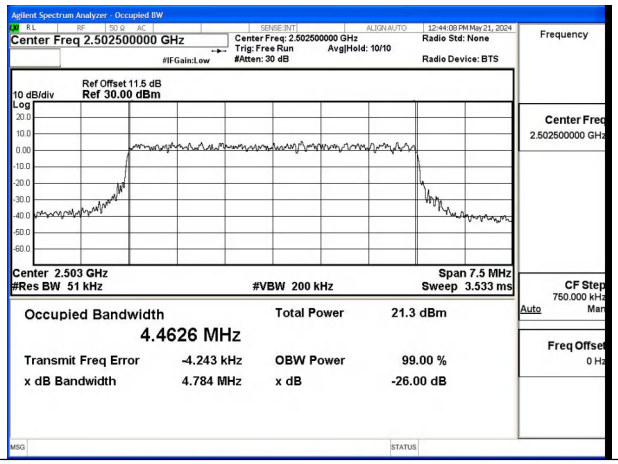
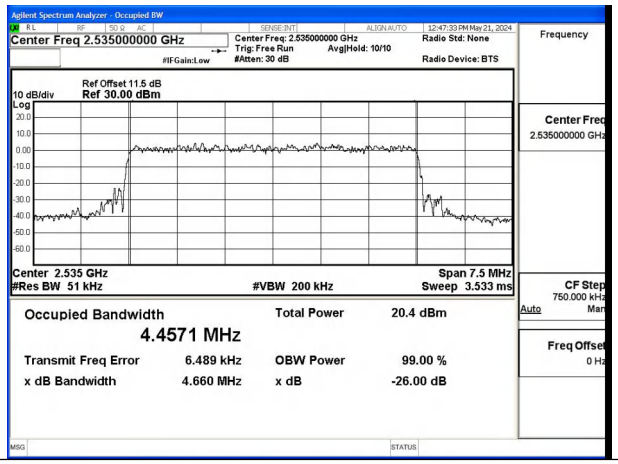


Fig.13



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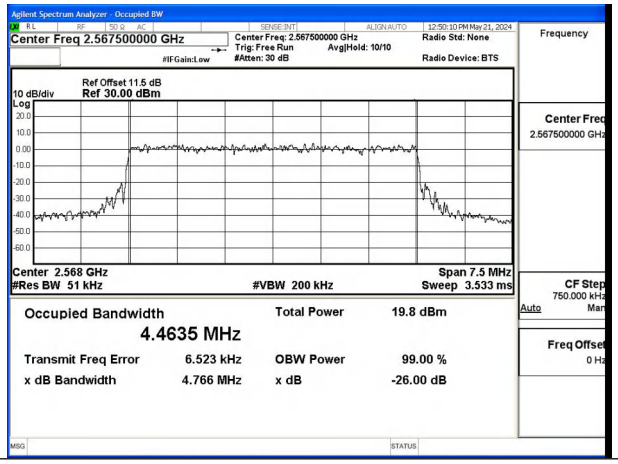

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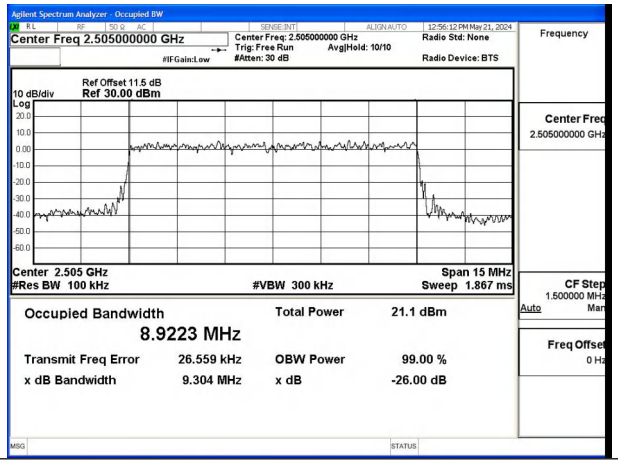
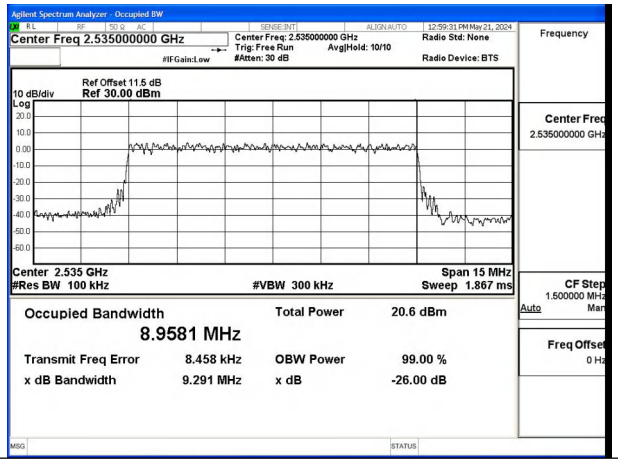


Fig.16



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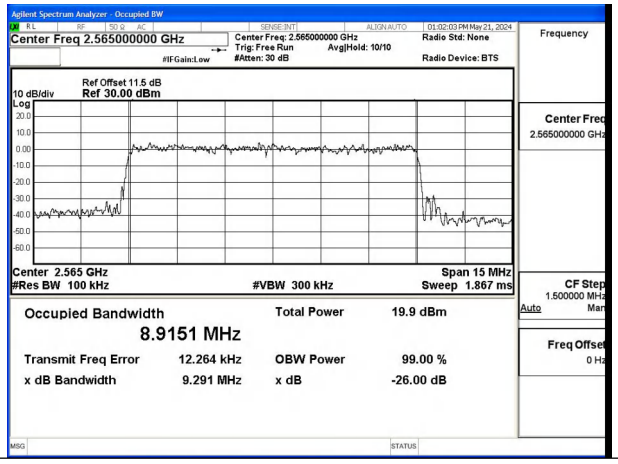

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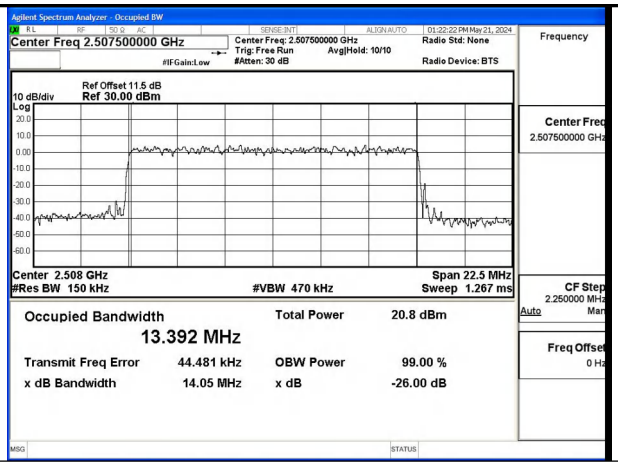

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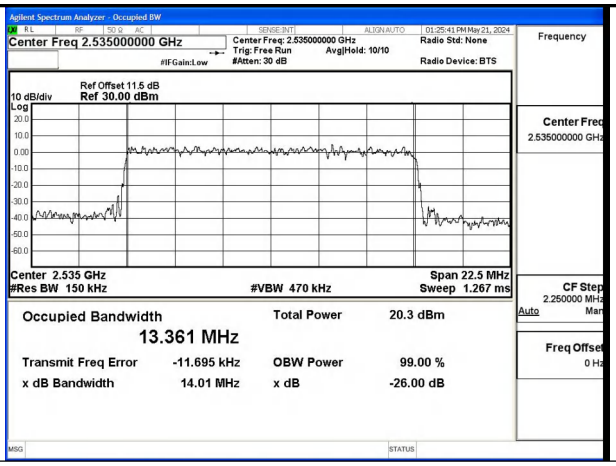

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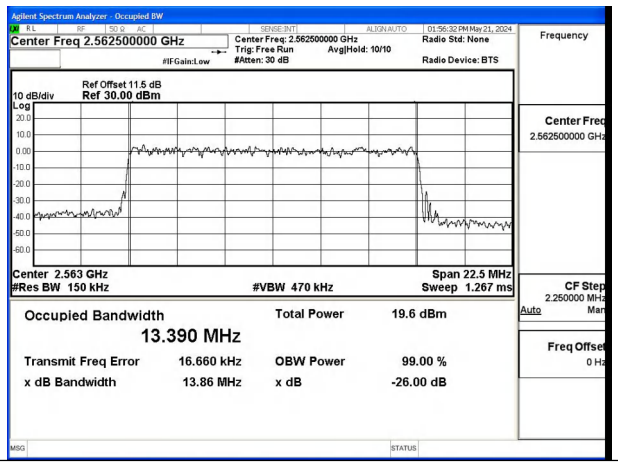

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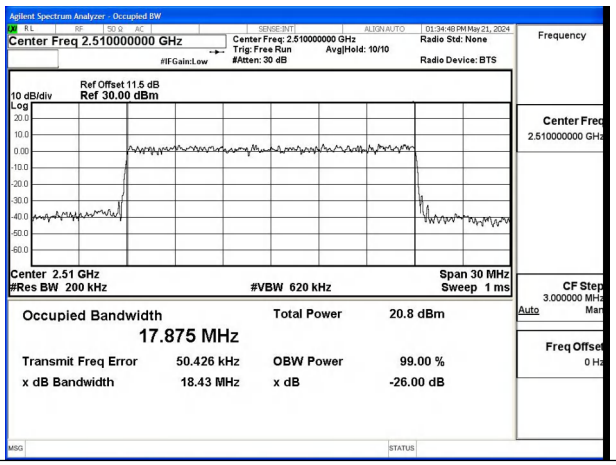

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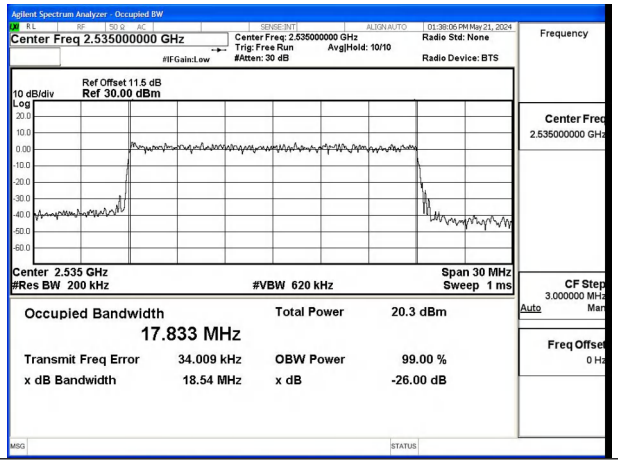

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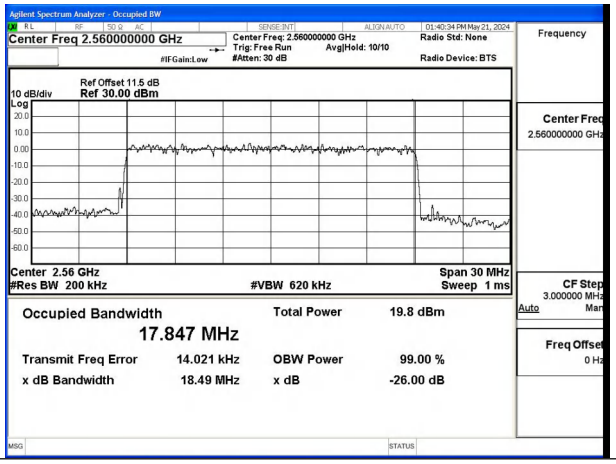

Fig.24

Test Mode: 64QAM

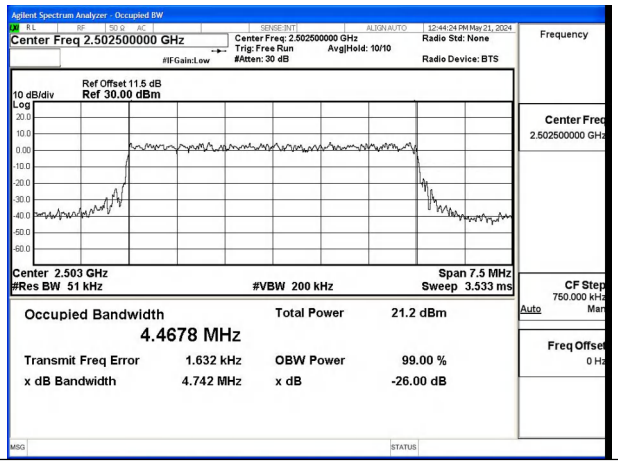

Fig.25

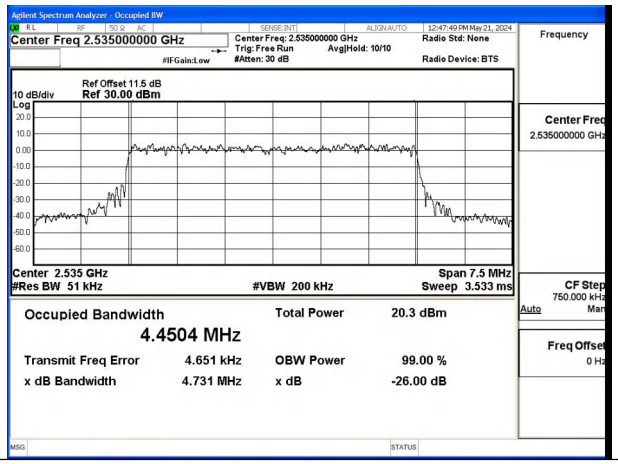

Fig.26

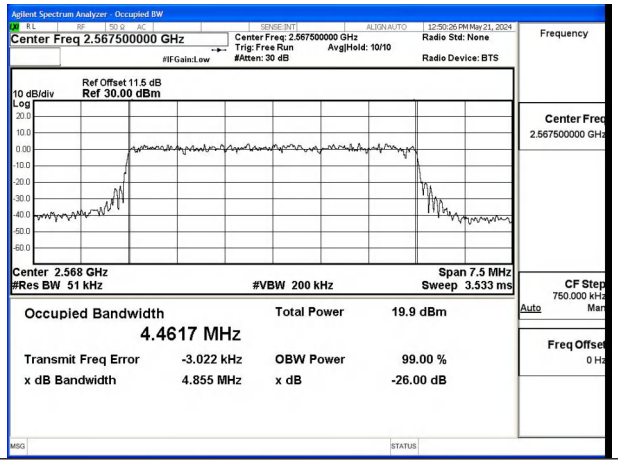

Fig.27

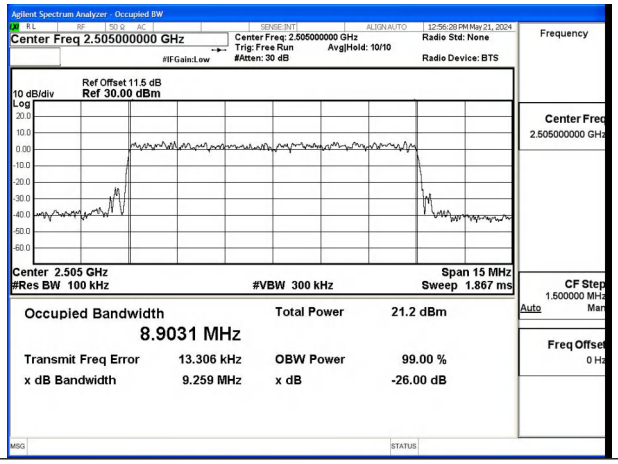

Fig.28

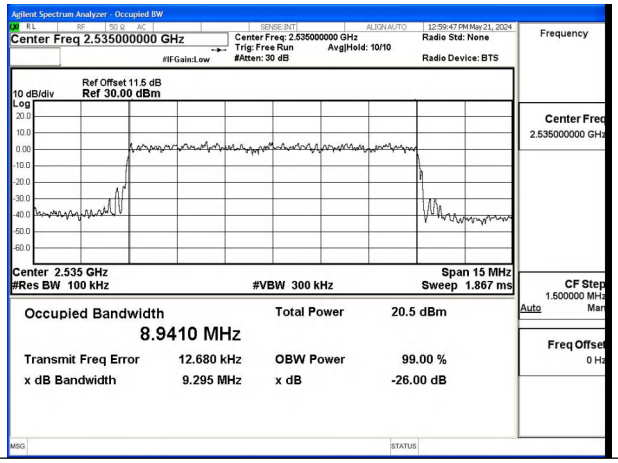

Fig.29

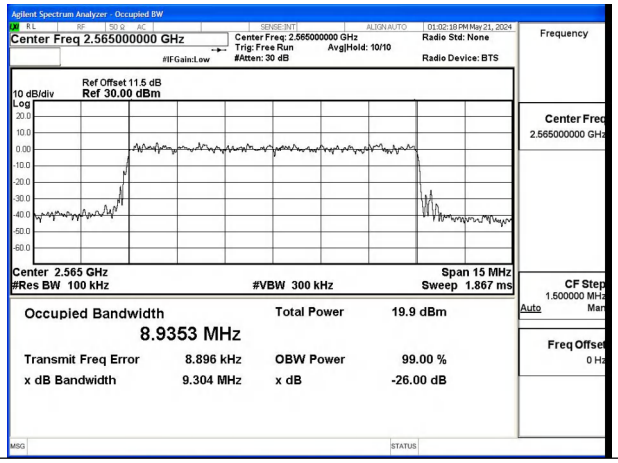

Fig.30

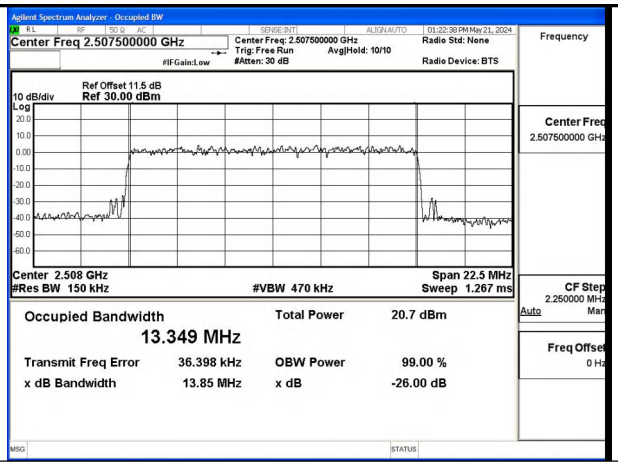

Fig.31

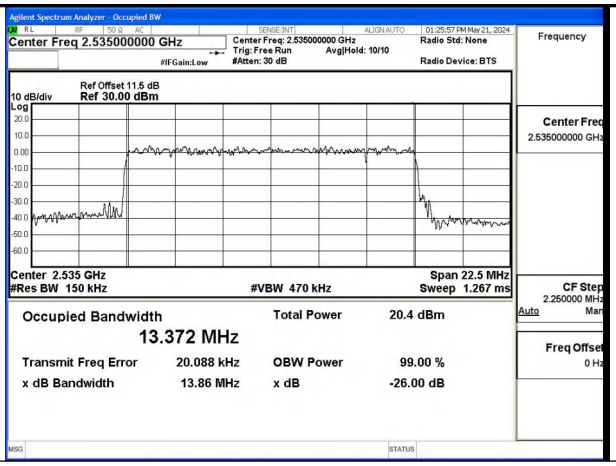

Fig.32

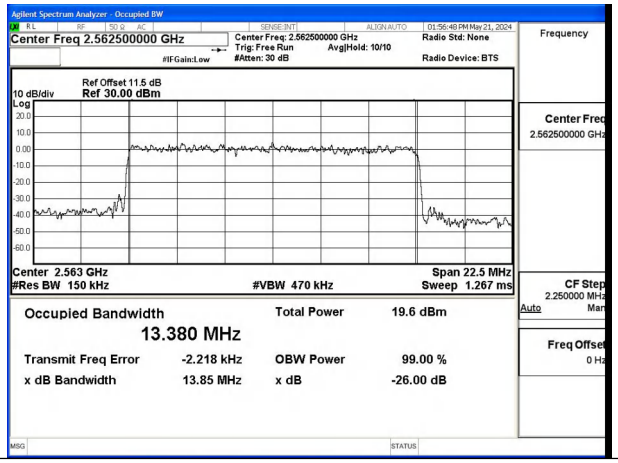

Fig.33

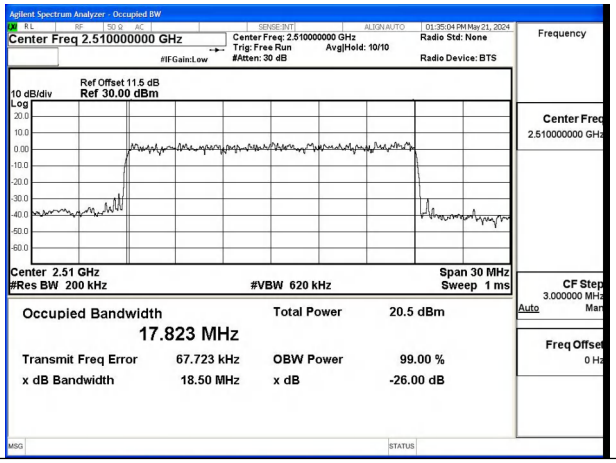

Fig.34

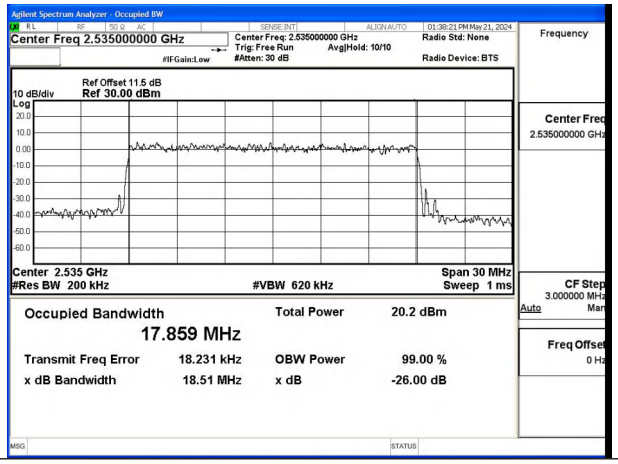

Fig.35

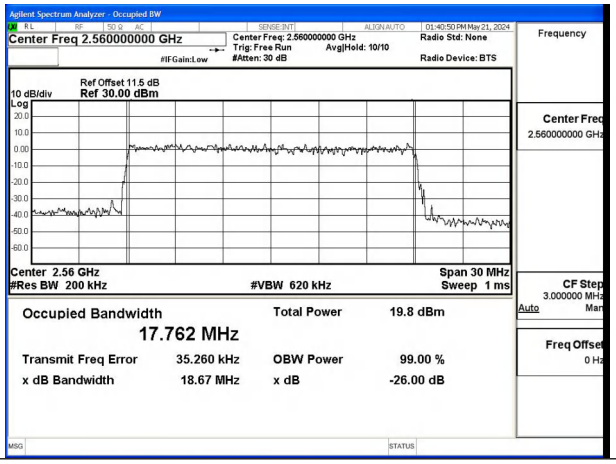

Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
7	QPSK	2502.5	20775	5	25	0	4.873	Fig.1
7	QPSK	2535	21100	5	25	0	4.767	Fig.2
7	QPSK	2567.5	21425	5	25	0	4.722	Fig.3
7	QPSK	2505	20800	10	50	0	9.351	Fig.4
7	QPSK	2535	21100	10	50	0	9.322	Fig.5
7	QPSK	2565	21400	10	50	0	9.529	Fig.6
7	QPSK	2507.5	20825	15	75	0	14.038	Fig.7
7	QPSK	2535	21100	15	75	0	13.859	Fig.8
7	QPSK	2562.5	21375	15	75	0	14.030	Fig.9
7	QPSK	2510	20850	20	100	0	18.513	Fig.10
7	QPSK	2535	21100	20	100	0	18.472	Fig.11
7	QPSK	2560	21350	20	100	0	18.505	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
7	16QAM	2502.5	20775	5	25	0	4.784	Fig.13
7	16QAM	2535	21100	5	25	0	4.660	Fig.14
7	16QAM	2567.5	21425	5	25	0	4.766	Fig.15
7	16QAM	2505	20800	10	50	0	9.304	Fig.16
7	16QAM	2535	21100	10	50	0	9.291	Fig.17
7	16QAM	2565	21400	10	50	0	9.291	Fig.18
7	16QAM	2507.5	20825	15	75	0	14.048	Fig.19
7	16QAM	2535	21100	15	75	0	14.008	Fig.20
7	16QAM	2562.5	21375	15	75	0	13.861	Fig.21
7	16QAM	2510	20850	20	100	0	18.431	Fig.22
7	16QAM	2535	21100	20	100	0	18.535	Fig.23
7	16QAM	2560	21350	20	100	0	18.488	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
7	64QAM	2502.5	20775	5	25	0	4.742	Fig.25
7	64QAM	2535	21100	5	25	0	4.731	Fig.26
7	64QAM	2567.5	21425	5	25	0	4.855	Fig.27
7	64QAM	2505	20800	10	50	0	9.259	Fig.28
7	64QAM	2535	21100	10	50	0	9.295	Fig.29
7	64QAM	2565	21400	10	50	0	9.304	Fig.30
7	64QAM	2507.5	20825	15	75	0	13.855	Fig.31
7	64QAM	2535	21100	15	75	0	13.865	Fig.32
7	64QAM	2562.5	21375	15	75	0	13.853	Fig.33
7	64QAM	2510	20850	20	100	0	18.502	Fig.34
7	64QAM	2535	21100	20	100	0	18.506	Fig.35
7	64QAM	2560	21350	20	100	0	18.669	Fig.36

Test Mode: QPSK

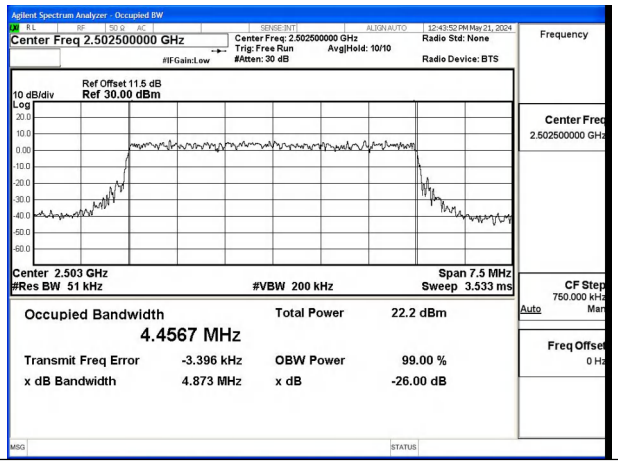

Fig.1

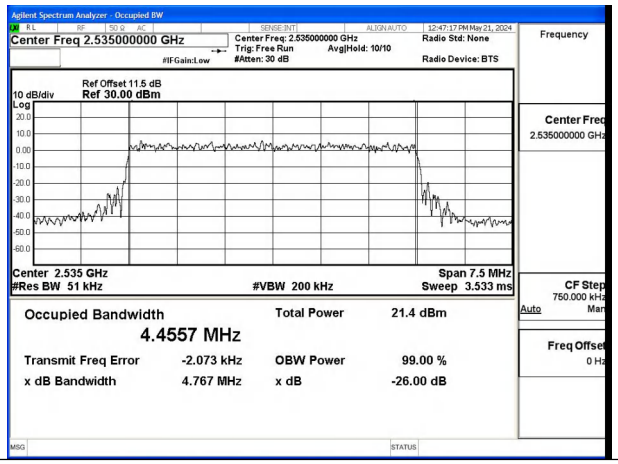

Fig.2

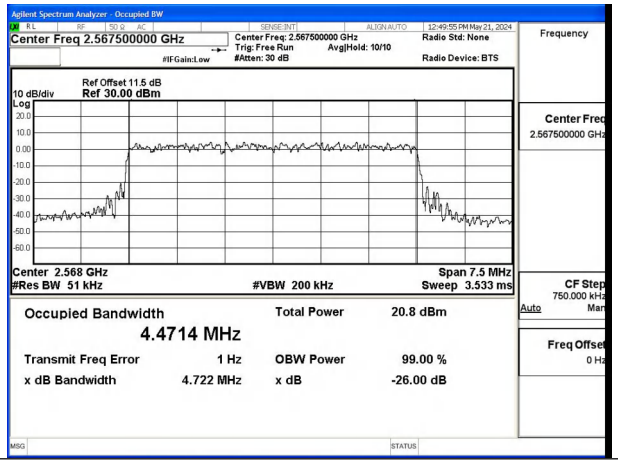

Fig.3

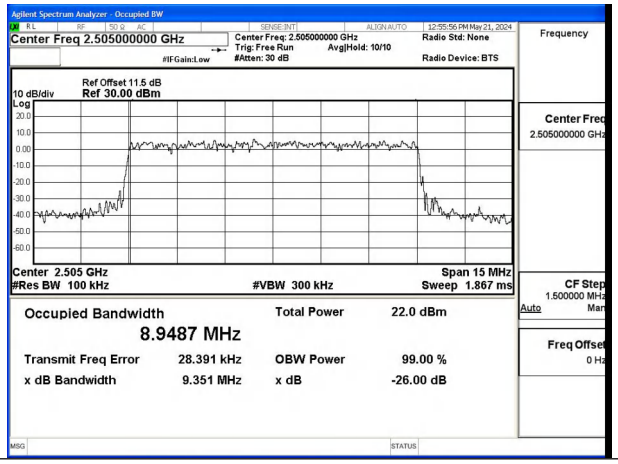

Fig.4

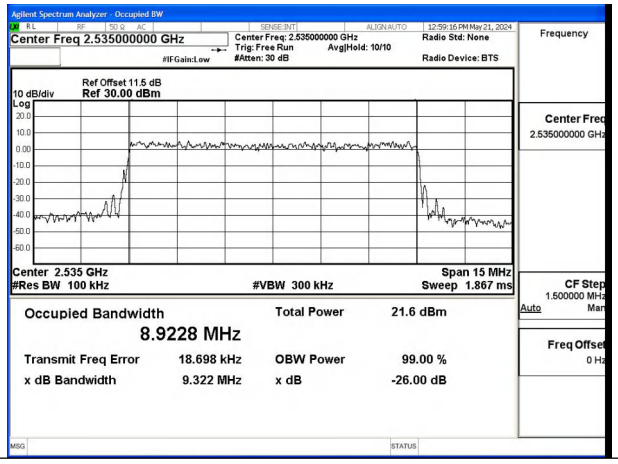

Fig.5

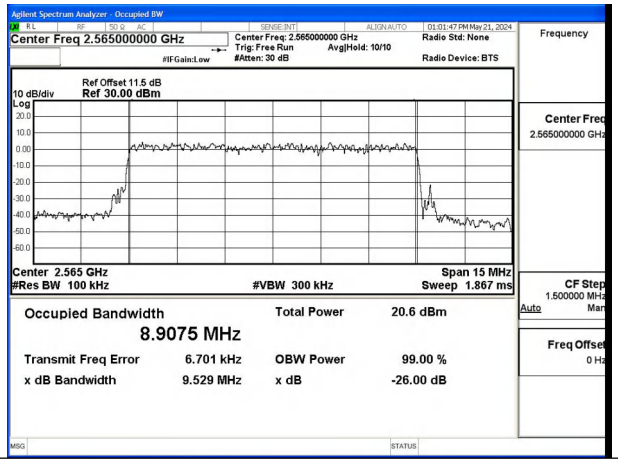

Fig.6

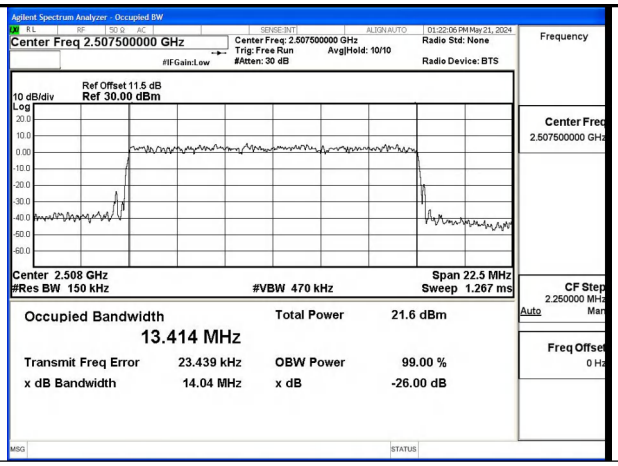

Fig.7

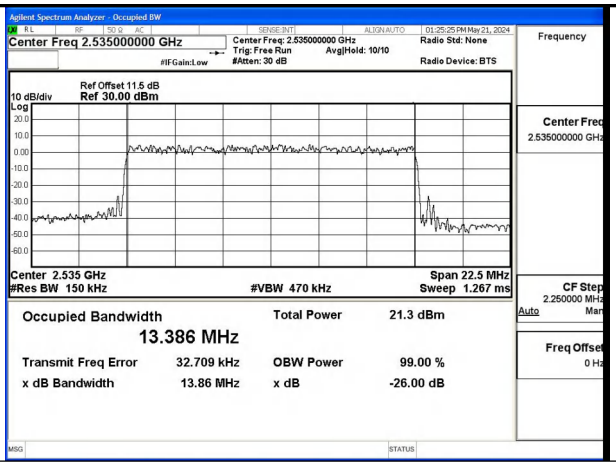

Fig.8

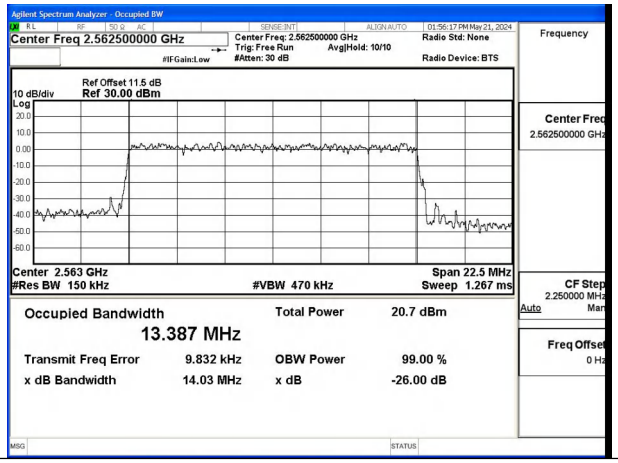

Fig.9

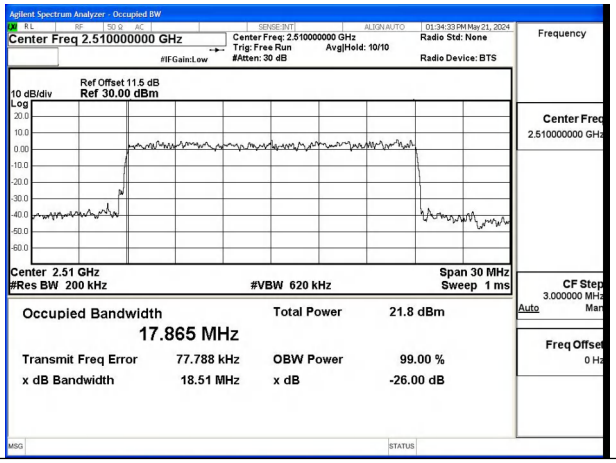

Fig.10

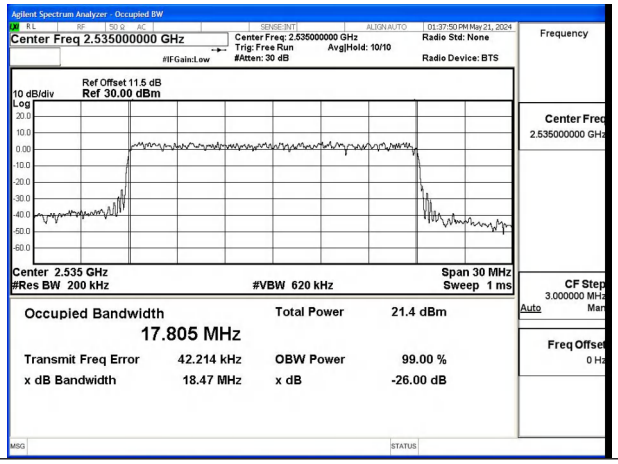

Fig.11

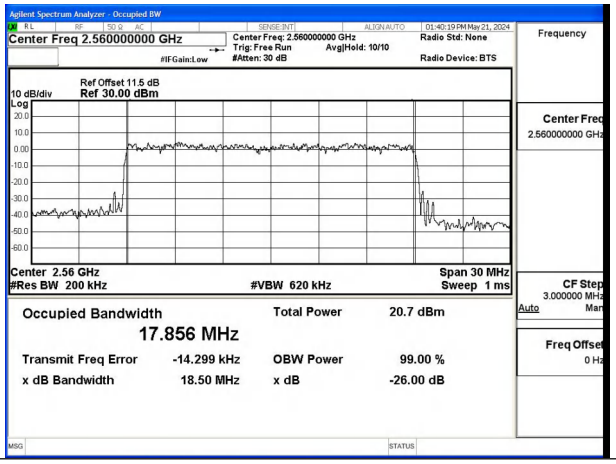

Fig.12

Test Mode: 16QAM

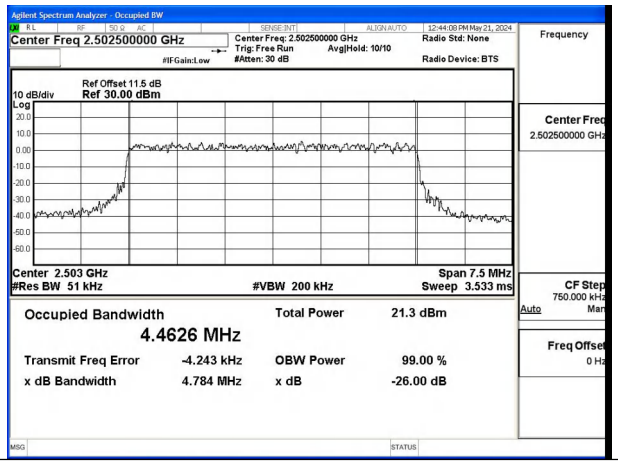

Fig.13

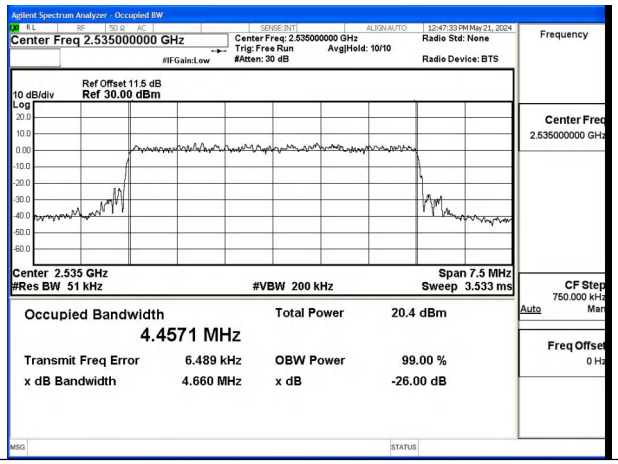

Fig.14

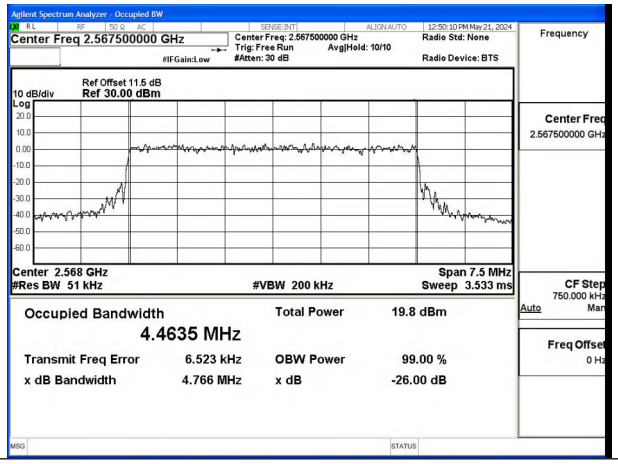

Fig.15

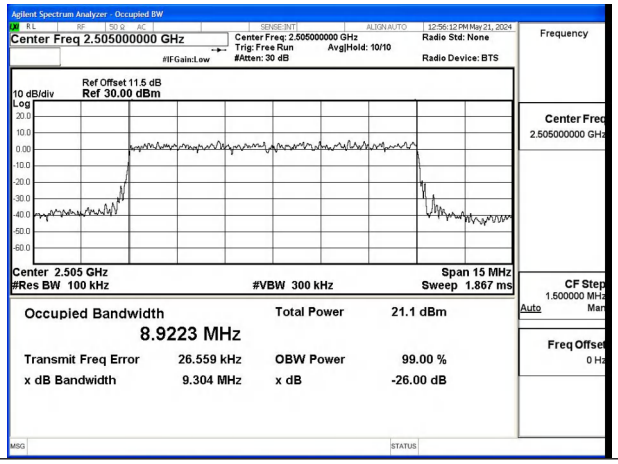

Fig.16

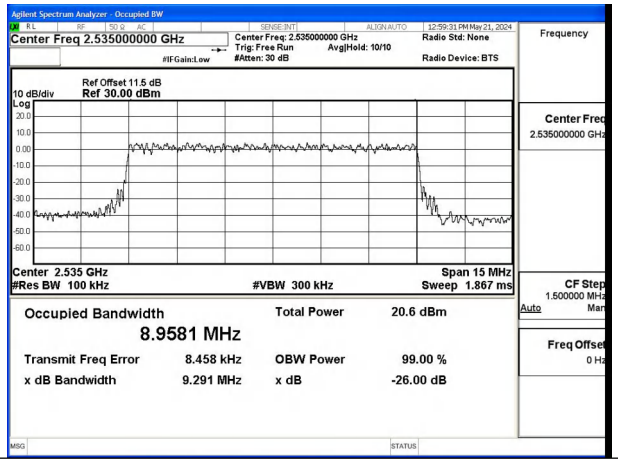

Fig.17

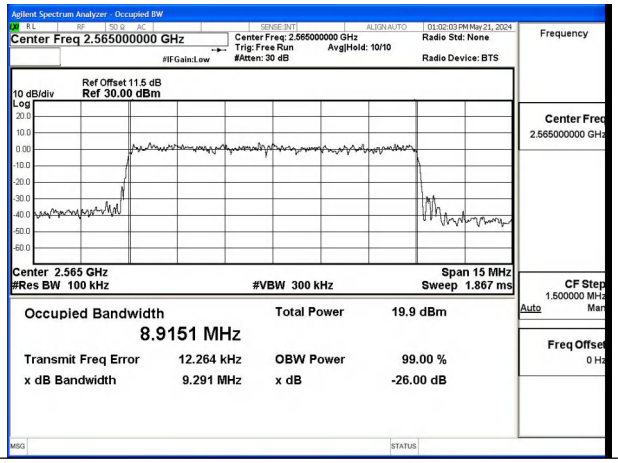

Fig.18

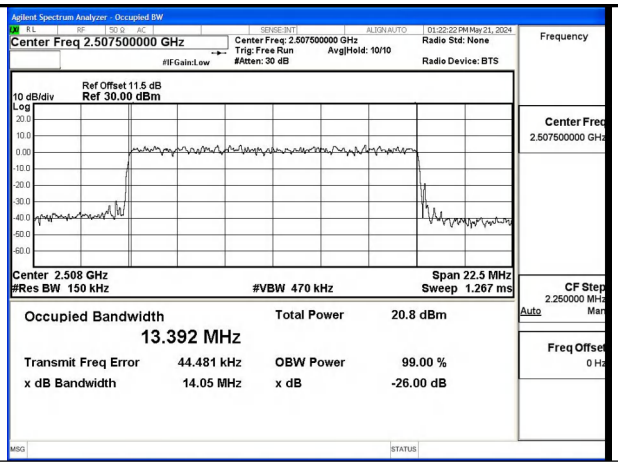

Fig.19

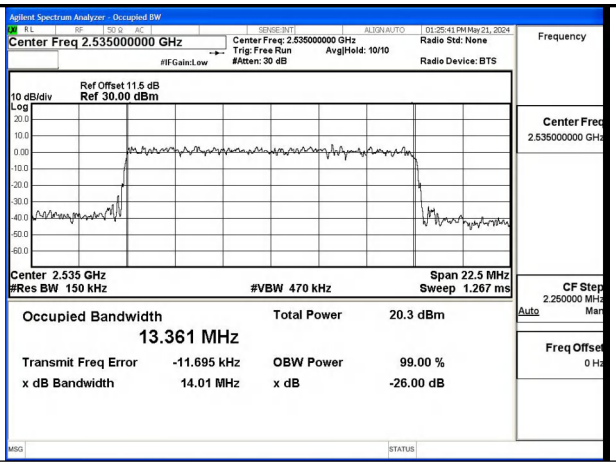

Fig.20

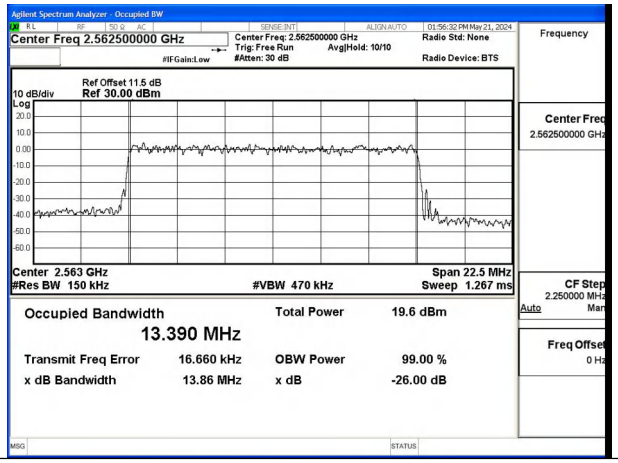

Fig.21

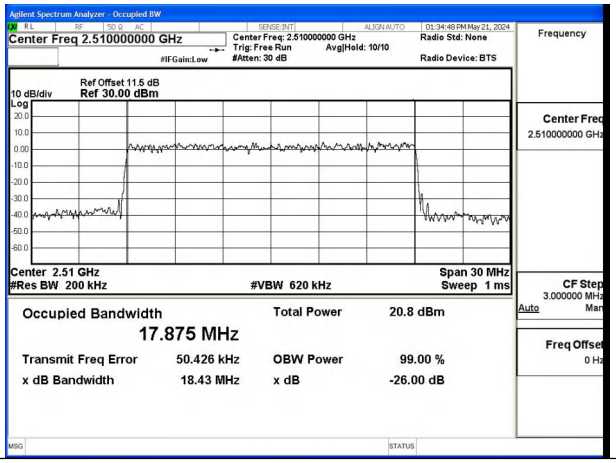

Fig.22

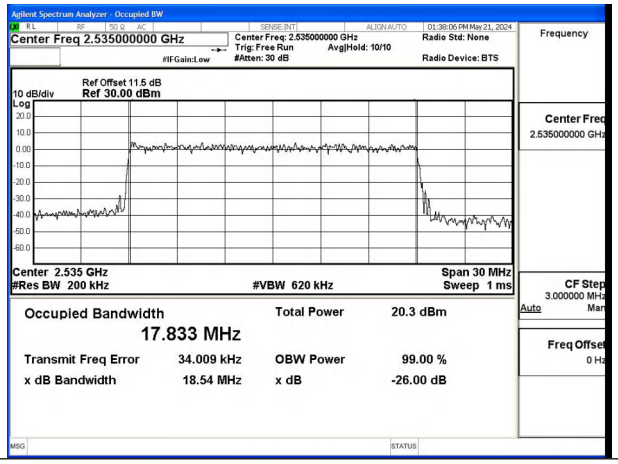

Fig.23

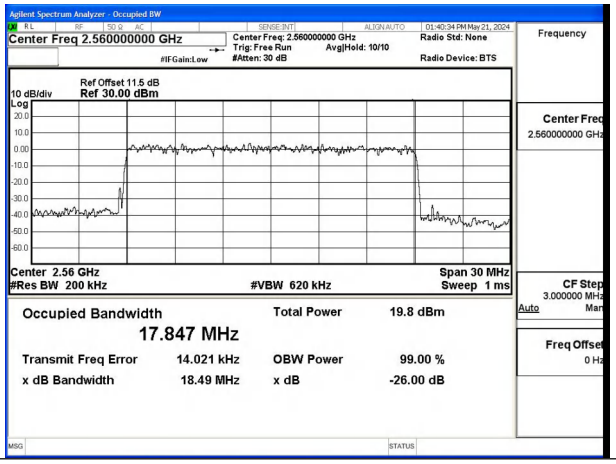

Fig.24

Test Mode: 64QAM

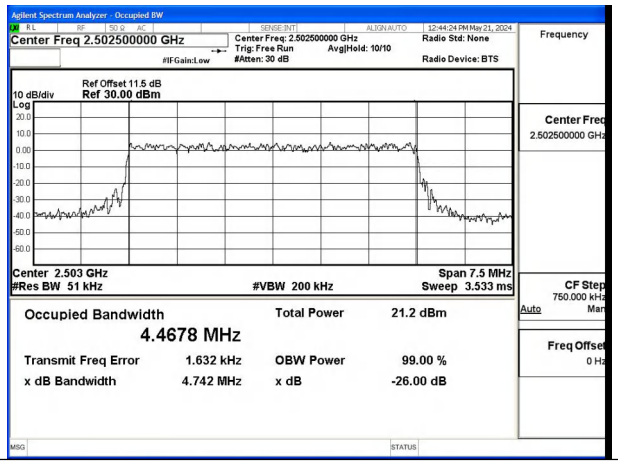

Fig.25

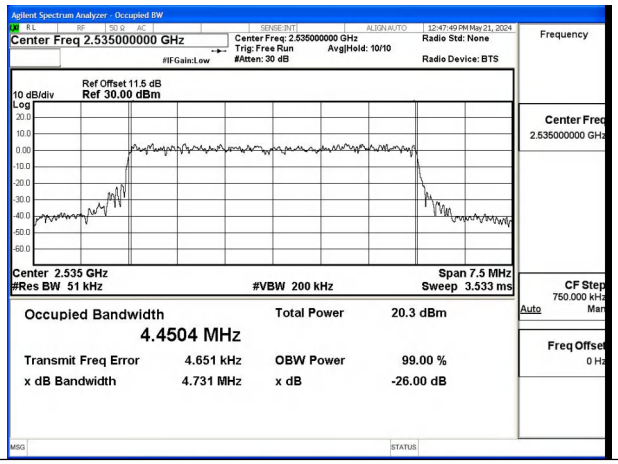

Fig.26

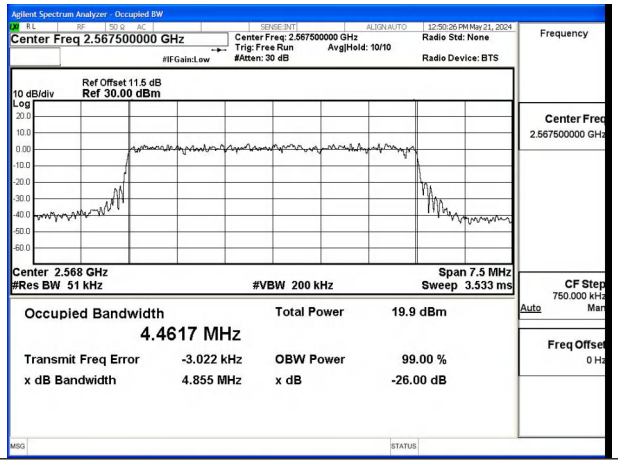

Fig.27

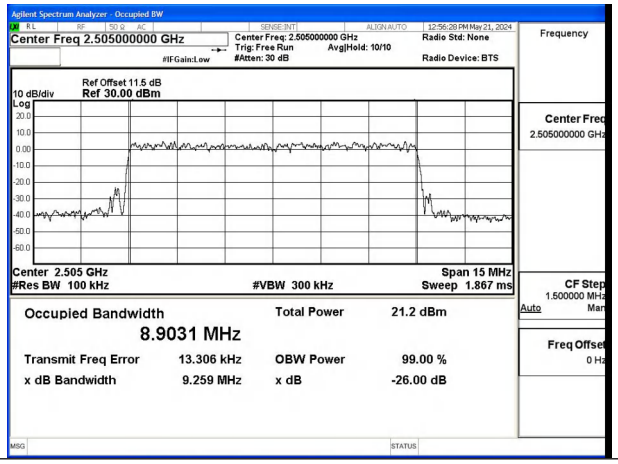

Fig.28

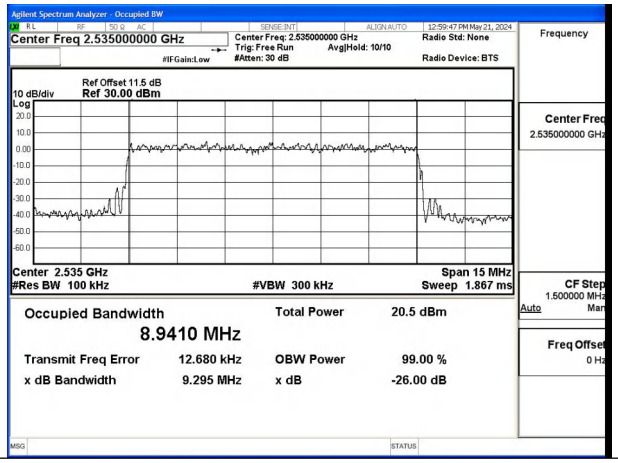

Fig.29

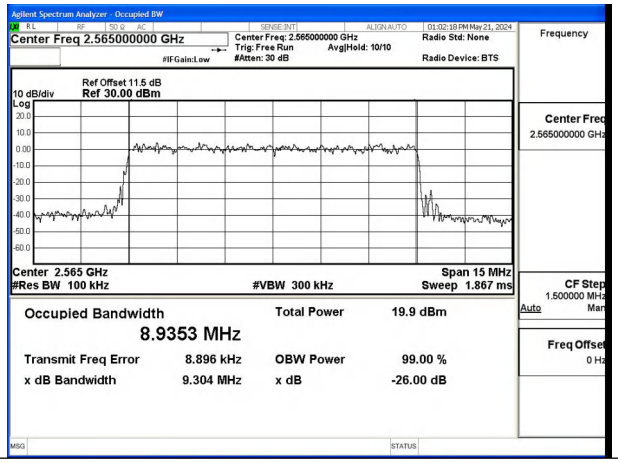

Fig.30