APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	22.60
QPSK	824.7	20407	1.4	1	3	22.57
QPSK	824.7	20407	1.4	1	5	22.51
QPSK	824.7	20407	1.4	3	0	22.54
QPSK	824.7	20407	1.4	3	1	22.68
QPSK	824.7	20407	1.4	3	3	22.62
QPSK	824.7	20407	1.4	6	0	21.58
QPSK	836.5	20525	1.4	1	0	22.85
QPSK	836.5	20525	1.4	1	3	22.96
QPSK	836.5	20525	1.4	1	5	22.95
QPSK	836.5	20525	1.4	3	0	22.81
QPSK	836.5	20525	1.4	3	1	22.96
QPSK	836.5	20525	1.4	3	3	22.91
QPSK	836.5	20525	1.4	6	0	21.90
QPSK	848.3	20643	1.4	1	0	22.88
QPSK	848.3	20643	1.4	1	3	22.87
QPSK	848.3	20643	1.4	1	5	22.77
QPSK	848.3	20643	1.4	3	0	22.94
QPSK	848.3	20643	1.4	3	1	22.87
QPSK	848.3	20643	1.4	3	3	22.82
QPSK	848.3	20643	1.4	6	0	21.85

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.23
16QAM	824.7	20407	1.4	1	3	21.90
16QAM	824.7	20407	1.4	1	5	22.09
16QAM	824.7	20407	1.4	3	0	21.76
16QAM	824.7	20407	1.4	3	1	21.66
16QAM	824.7	20407	1.4	3	3	21.77
16QAM	824.7	20407	1.4	6	0	20.70
16QAM	836.5	20525	1.4	1	0	22.35
16QAM	836.5	20525	1.4	1	3	22.58
16QAM	836.5	20525	1.4	1	5	22.08
16QAM	836.5	20525	1.4	3	0	22.16
16QAM	836.5	20525	1.4	3	1	21.90
16QAM	836.5	20525	1.4	3	3	22.19
16QAM	836.5	20525	1.4	6	0	21.00
16QAM	848.3	20643	1.4	1	0	22.32
16QAM	848.3	20643	1.4	1	3	22.37
16QAM	848.3	20643	1.4	1	5	22.33
16QAM	848.3	20643	1.4	3	0	22.02
16QAM	848.3	20643	1.4	3	1	21.90
16QAM	848.3	20643	1.4	3	3	22.19
16QAM	848.3	20643	1.4	6	0	20.98
64QAM	824.7	20407	1.4	1	0	21.88
64QAM	824.7	20407	1.4	1	3	22.00
64QAM	824.7	20407	1.4	1	5	21.38
64QAM	824.7	20407	1.4	3	0	21.91
64QAM	824.7	20407	1.4	3	1	21.81
64QAM	824.7	20407	1.4	3	3	21.65
64QAM	824.7	20407	1.4	6	0	20.67
64QAM	836.5	20525	1.4	1	0	21.92
64QAM	836.5	20525	1.4	1	3	21.83
64QAM	836.5	20525	1.4	1	5	21.86
64QAM	836.5	20525	1.4	3	0	21.94
64QAM	836.5	20525	1.4	3	1	22.19
64QAM	836.5	20525	1.4	3	3	21.90
64QAM	836.5	20525	1.4	6	0	20.90
64QAM	848.3	20643	1.4	1	0	22.24
64QAM	848.3	20643	1.4	1	3	22.30
64QAM	848.3	20643	1.4	1	5	21.90
64QAM	848.3	20643	1.4	3	0	21.97
64QAM	848.3	20643	1.4	3	1	22.05
64QAM	848.3	20643	1.4	3	3	22.01
64QAM	848.3	20643	1.4	6	0	20.94

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	22.83
QPSK	825.5	20415	3	1	8	22.92
QPSK	825.5	20415	3	1	14	22.89
QPSK	825.5	20415	3	8	0	21.90
QPSK	825.5	20415	3	8	4	21.91
QPSK	825.5	20415	3	8	7	21.89
QPSK	825.5	20415	3	15	0	21.90
QPSK	836.5	20525	3	1	0	22.86
QPSK	836.5	20525	3	1	8	22.88
QPSK	836.5	20525	3	1	14	22.88
QPSK	836.5	20525	3	8	0	21.90
QPSK	836.5	20525	3	8	4	22.00
QPSK	836.5	20525	3	8	7	21.97
QPSK	836.5	20525	3	15	0	21.88
QPSK	847.5	20635	3	1	0	22.90
QPSK	847.5	20635	3	1	8	22.93
QPSK	847.5	20635	3	1	14	22.85
QPSK	847.5	20635	3	8	0	22.00
QPSK	847.5	20635	3	8	4	22.00
QPSK	847.5	20635	3	8	7	22.02
QPSK	847.5	20635	3	15	0	22.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.21
16QAM	825.5	20415	3	1	8	22.29
16QAM	825.5	20415	3	1	14	22.08
16QAM	825.5	20415	3	8	0	21.08
16QAM	825.5	20415	3	8	4	20.98
16QAM	825.5	20415	3	8	7	20.99
16QAM	825.5	20415	3	15	0	20.87
16QAM	836.5	20525	3	1	0	22.39
16QAM	836.5	20525	3	1	8	22.24
16QAM	836.5	20525	3	1	14	22.40
16QAM	836.5	20525	3	8	0	20.99
16QAM	836.5	20525	3	8	4	21.12
16QAM	836.5	20525	3	8	7	21.10
16QAM	836.5	20525	3	15	0	20.89
16QAM	847.5	20635	3	1	0	22.26
16QAM	847.5	20635	3	1	8	22.21
16QAM	847.5	20635	3	1	14	22.09
16QAM	847.5	20635	3	8	0	21.08
16QAM	847.5	20635	3	8	4	21.07
16QAM	847.5	20635	3	8	7	21.16
16QAM	847.5	20635	3	15	0	21.03
64QAM	825.5	20415	3	1	0	22.07
64QAM	825.5	20415	3	1	8	22.02
64QAM	825.5	20415	3	1	14	21.47
64QAM	825.5	20415	3	8	0	20.90
64QAM	825.5	20415	3	8	4	21.00
64QAM	825.5	20415	3	8	7	21.13
64QAM	825.5	20415	3	15	0	20.92
64QAM	836.5	20525	3	1	0	21.87
64QAM	836.5	20525	3	1	8	21.95
64QAM	836.5	20525	3	1	14	21.56
64QAM	836.5	20525	3	8	0	20.86
64QAM	836.5	20525	3	8	4	20.91
64QAM	836.5	20525	3	8	7	20.94
64QAM	836.5	20525	3	15	0	20.94
64QAM	847.5	20635	3	1	0	22.05
64QAM	847.5	20635	3	1	8	22.05
64QAM	847.5	20635	3	1	14	21.99
64QAM	847.5	20635	3	8	0	21.18
64QAM	847.5	20635	3	8	4	20.98
64QAM	847.5	20635	3	8	7	21.05
64QAM	847.5	20635	3	15	0	20.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	22.81
QPSK	826.5	20425	5	1	12	22.86
QPSK	826.5	20425	5	1	24	22.78
QPSK	826.5	20425	5	12	0	21.86
QPSK	826.5	20425	5	12	7	21.97
QPSK	826.5	20425	5	12	13	21.92
QPSK	826.5	20425	5	25	0	21.93
QPSK	836.5	20525	5	1	0	22.75
QPSK	836.5	20525	5	1	12	22.89
QPSK	836.5	20525	5	1	24	22.95
QPSK	836.5	20525	5	12	0	21.94
QPSK	836.5	20525	5	12	7	21.91
QPSK	836.5	20525	5	12	13	21.96
QPSK	836.5	20525	5	25	0	21.80
QPSK	846.5	20625	5	1	0	23.06
QPSK	846.5	20625	5	1	12	22.97
QPSK	846.5	20625	5	1	24	22.85
QPSK	846.5	20625	5	12	0	22.00
QPSK	846.5	20625	5	12	7	22.08
QPSK	846.5	20625	5	12	13	21.99
QPSK	846.5	20625	5	25	0	22.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.02
16QAM	826.5	20425	5	1	12	22.29
16QAM	826.5	20425	5	1	24	22.22
16QAM	826.5	20425	5	12	0	20.77
16QAM	826.5	20425	5	12	7	20.85
16QAM	826.5	20425	5	12	13	21.01
16QAM	826.5	20425	5	25	0	20.93
16QAM	836.5	20525	5	1	0	22.15
16QAM	836.5	20525	5	1	12	22.36
16QAM	836.5	20525	5	1	24	22.49
16QAM	836.5	20525	5	12	0	20.90
16QAM	836.5	20525	5	12	7	20.98
16QAM	836.5	20525	5	12	13	20.97
16QAM	836.5	20525	5	25	0	20.97
16QAM	846.5	20625	5	1	0	22.46
16QAM	846.5	20625	5	1	12	22.09
16QAM	846.5	20625	5	1	24	21.90
16QAM	846.5	20625	5	12	0	20.82
16QAM	846.5	20625	5	12	7	21.25
16QAM	846.5	20625	5	12	13	20.90
16QAM	846.5	20625	5	25	0	21.15
64QAM	826.5	20425	5	1	0	21.98
64QAM	826.5	20425	5	1	12	22.24
64QAM	826.5	20425	5	1	24	22.08
64QAM	826.5	20425	5	12	0	20.75
64QAM	826.5	20425	5	12	7	20.92
64QAM	826.5	20425	5	12	13	20.93
64QAM	826.5	20425	5	25	0	20.91
64QAM	836.5	20525	5	1	0	21.65
64QAM	836.5	20525	5	1	12	22.04
64QAM	836.5	20525	5	1	24	22.01
64QAM	836.5	20525	5	12	0	20.92
64QAM	836.5	20525	5	12	7	20.97
64QAM	836.5	20525	5	12	13	20.98
64QAM	836.5	20525	5	25	0	20.85
64QAM	846.5	20625	5	1	0	22.07
64QAM	846.5	20625	5	1	12	22.09
64QAM	846.5	20625	5	1	24	21.91
64QAM	846.5	20625	5	12	0	20.97
64QAM	846.5	20625	5	12	7	21.01
64QAM	846.5	20625	5	12	13	21.06
64QAM	846.5	20625	5	25	0	20.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	22.71
QPSK	829	20450	10	1	25	22.87
QPSK	829	20450	10	1	49	23.01
QPSK	829	20450	10	25	0	21.78
QPSK	829	20450	10	25	12	21.93
QPSK	829	20450	10	25	25	21.94
QPSK	829	20450	10	50	0	21.93
QPSK	836.5	20525	10	1	0	22.83
QPSK	836.5	20525	10	1	25	22.93
QPSK	836.5	20525	10	1	49	22.77
QPSK	836.5	20525	10	25	0	21.98
QPSK	836.5	20525	10	25	12	21.90
QPSK	836.5	20525	10	25	25	21.92
QPSK	836.5	20525	10	50	0	21.94
QPSK	844	20600	10	1	0	22.96
QPSK	844	20600	10	1	25	22.95
QPSK	844	20600	10	1	49	22.85
QPSK	844	20600	10	25	0	22.07
QPSK	844	20600	10	25	12	22.11
QPSK	844	20600	10	25	25	22.04
QPSK	844	20600	10	50	0	22.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.21
16QAM	829	20450	10	1	25	22.42
16QAM	829	20450	10	1	49	22.05
16QAM	829	20450	10	25	0	20.79
16QAM	829	20450	10	25	12	20.87
16QAM	829	20450	10	25	25	21.00
16QAM	829	20450	10	50	0	20.89
16QAM	836.5	20525	10	1	0	22.20
16QAM	836.5	20525	10	1	25	22.14
16QAM	836.5	20525	10	1	49	22.19
16QAM	836.5	20525	10	25	0	20.82
16QAM	836.5	20525	10	25	12	20.90
16QAM	836.5	20525	10	25	25	20.84
16QAM	836.5	20525	10	50	0	20.97
16QAM	844	20600	10	1	0	21.95
16QAM	844	20600	10	1	25	22.45
16QAM	844	20600	10	1	49	22.06
16QAM	844	20600	10	25	0	21.07
16QAM	844	20600	10	25	12	21.14
16QAM	844	20600	10	25	25	21.07
16QAM	844	20600	10	50	0	21.20
64QAM	829	20450	10	1	0	21.88
64QAM	829	20450	10	1	25	21.89
64QAM	829	20450	10	1	49	22.39
64QAM	829	20450	10	25	0	20.76
64QAM	829	20450	10	25	12	20.96
64QAM	829	20450	10	25	25	21.01
64QAM	829	20450	10	50	0	20.85
64QAM	836.5	20525	10	1	0	22.35
64QAM	836.5	20525	10	1	25	22.25
64QAM	836.5	20525	10	1	49	21.86
64QAM	836.5	20525	10	25	0	20.95
64QAM	836.5	20525	10	25	12	20.93
64QAM	836.5	20525	10	25	25	21.06
64QAM	836.5	20525	10	50	0	20.82
64QAM	844	20600	10	1	0	22.33
64QAM	844	20600	10	1	25	22.32
64QAM	844	20600	10	1	49	22.01
64QAM	844	20600	10	25	0	20.92
64QAM	844	20600	10	25	12	21.06
64QAM	844	20600	10	25	25	21.01
64QAM	844	20600	10	50	0	21.06

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.075	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.074	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.072	Fig.3
5	QPSK	825.5	20415	3	15	0	2.676	Fig.4
5	QPSK	836.5	20525	3	15	0	2.682	Fig.5
5	QPSK	847.5	20635	3	15	0	2.683	Fig.6
5	QPSK	826.5	20425	5	25	0	4.477	Fig.7
5	QPSK	836.5	20525	5	25	0	4.472	Fig.8
5	QPSK	846.5	20625	5	25	0	4.476	Fig.9
5	QPSK	829	20450	10	50	0	8.935	Fig.10
5	QPSK	836.5	20525	10	50	0	8.913	Fig.11
5	QPSK	844	20600	10	50	0	8.960	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.077	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.075	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.076	Fig.15
5	16QAM	825.5	20415	3	15	0	2.680	Fig.16
5	16QAM	836.5	20525	3	15	0	2.678	Fig.17
5	16QAM	847.5	20635	3	15	0	2.675	Fig.18
5	16QAM	826.5	20425	5	25	0	4.461	Fig.19
5	16QAM	836.5	20525	5	25	0	4.453	Fig.20
5	16QAM	846.5	20625	5	25	0	4.461	Fig.21
5	16QAM	829	20450	10	50	0	8.867	Fig.22
5	16QAM	836.5	20525	10	50	0	8.913	Fig.23
5	16QAM	844	20600	10	50	0	8.959	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.079	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.078	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.071	Fig.27
5	64QAM	825.5	20415	3	15	0	2.684	Fig.28
5	64QAM	836.5	20525	3	15	0	2.677	Fig.29
5	64QAM	847.5	20635	3	15	0	2.677	Fig.30
5	64QAM	826.5	20425	5	25	0	4.462	Fig.31
5	64QAM	836.5	20525	5	25	0	4.454	Fig.32
5	64QAM	846.5	20625	5	25	0	4.472	Fig.33
5	64QAM	829	20450	10	50	0	8.914	Fig.34
5	64QAM	836.5	20525	10	50	0	8.910	Fig.35
5	64QAM	844	20600	10	50	0	8.955	Fig.36

Test Mode: QPSK

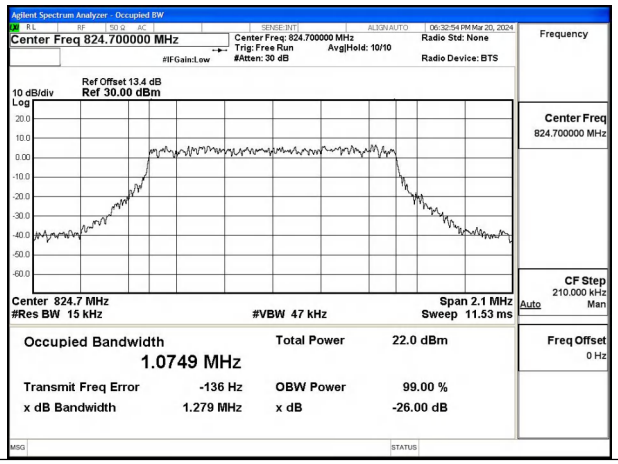


Fig.1

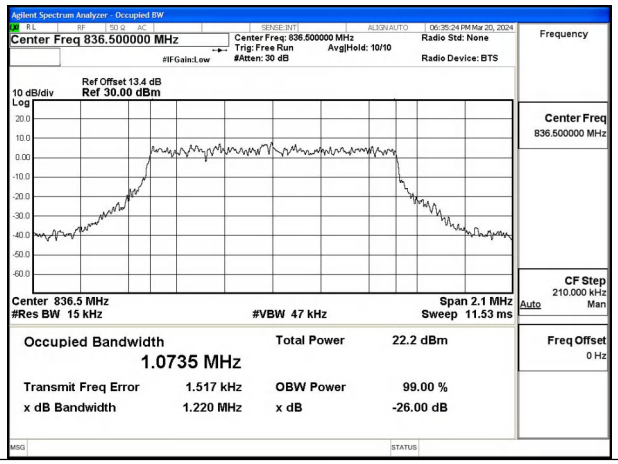


Fig.2

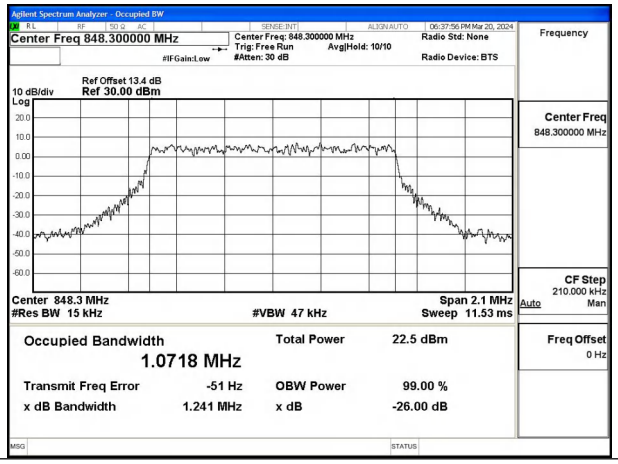


Fig.3

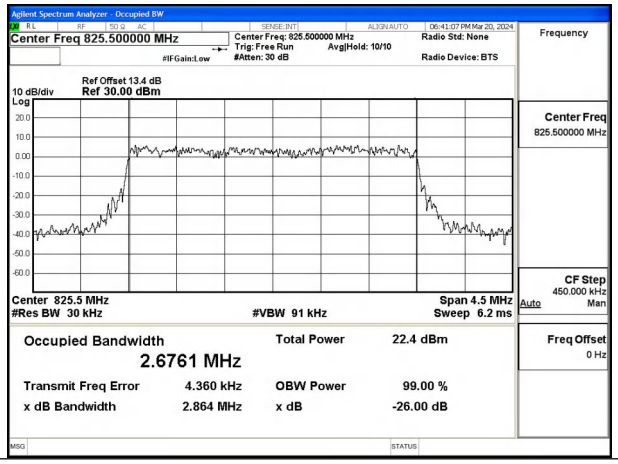


Fig.4

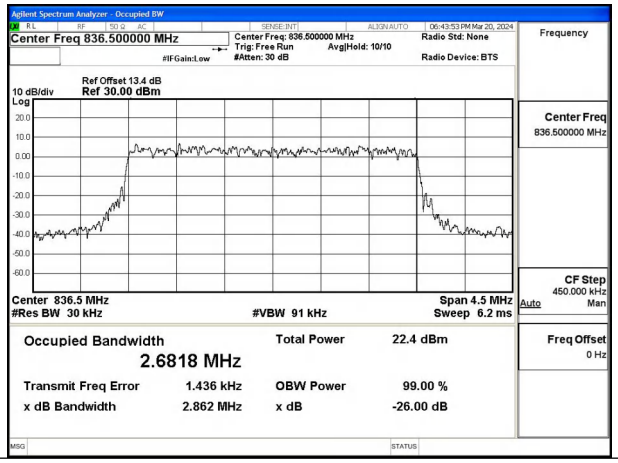


Fig.5

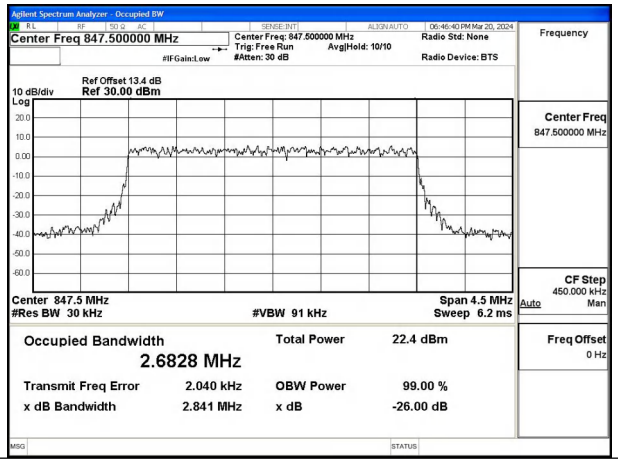


Fig.6

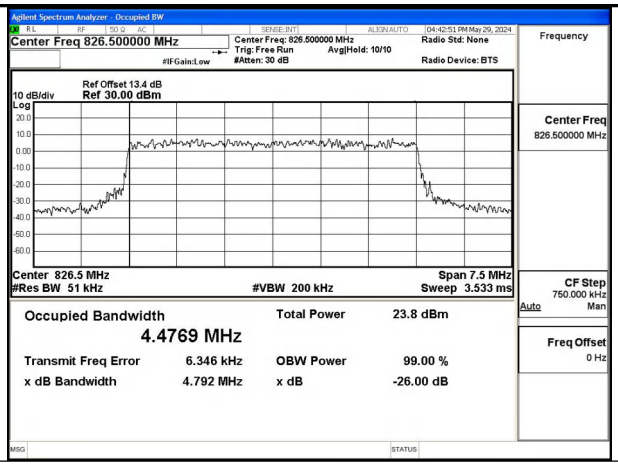
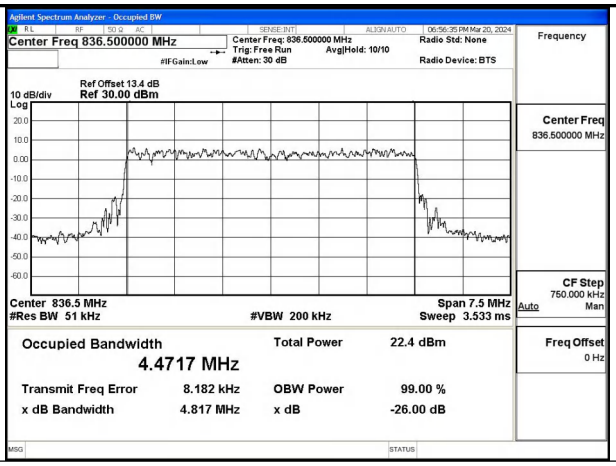


Fig.7



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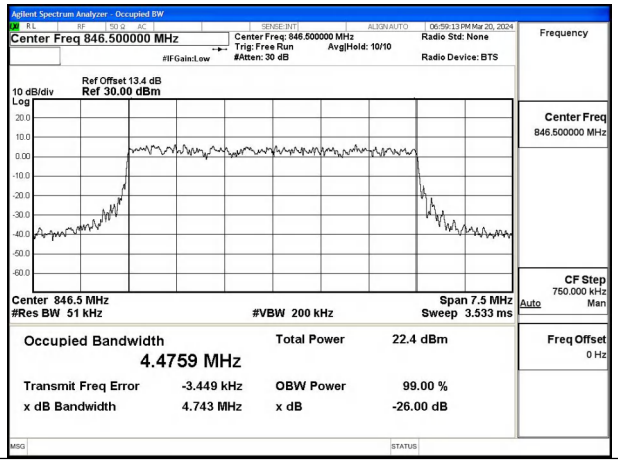


Fig.9

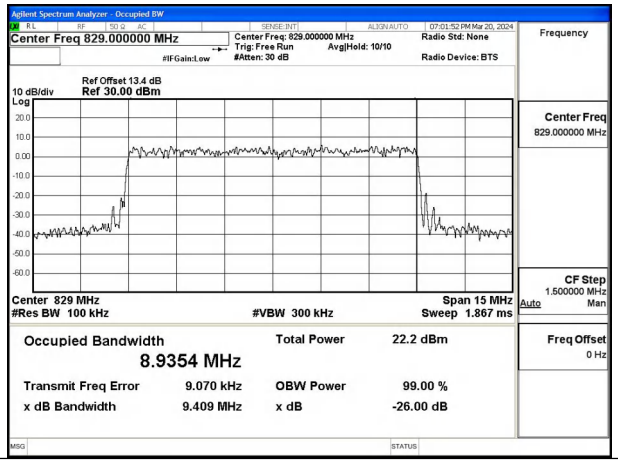


Fig.10

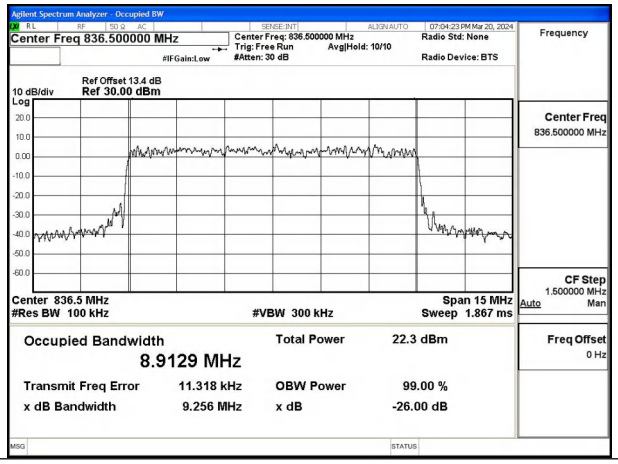


Fig.11

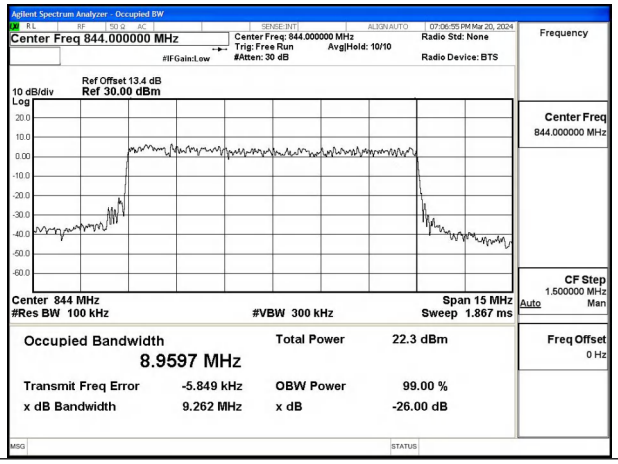
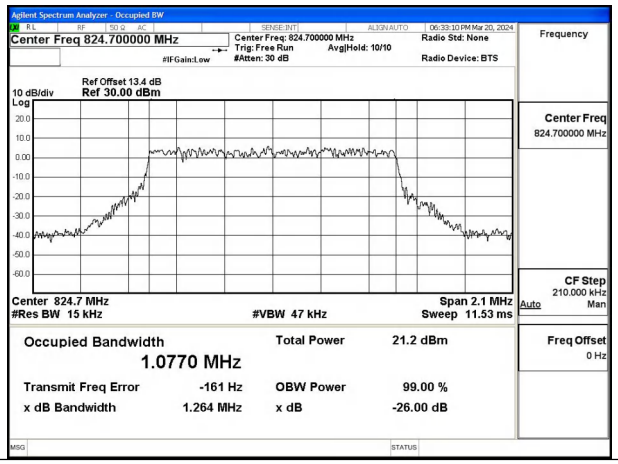


Fig.12

Test Mode: 16QAM



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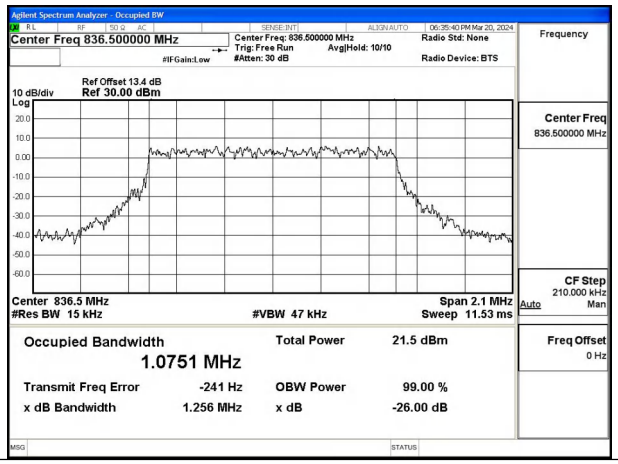
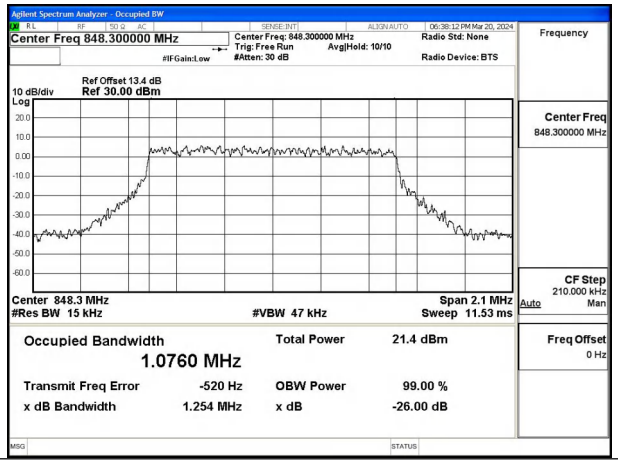


Fig.14



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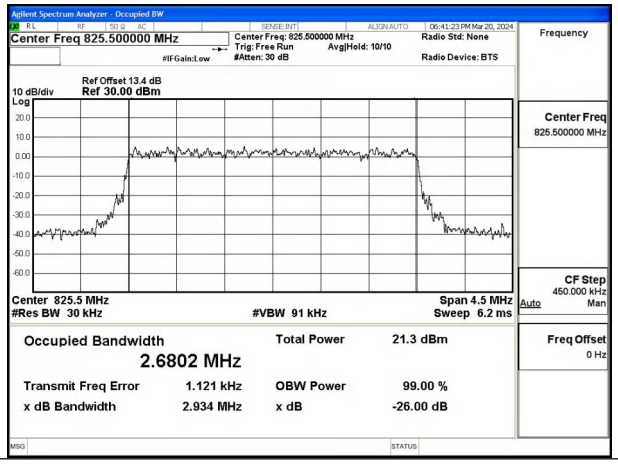

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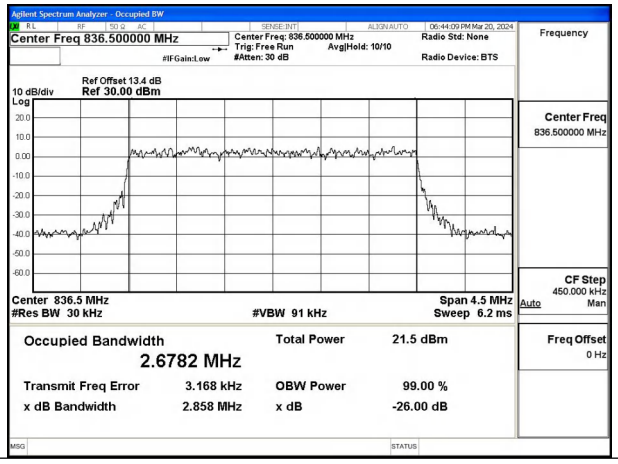

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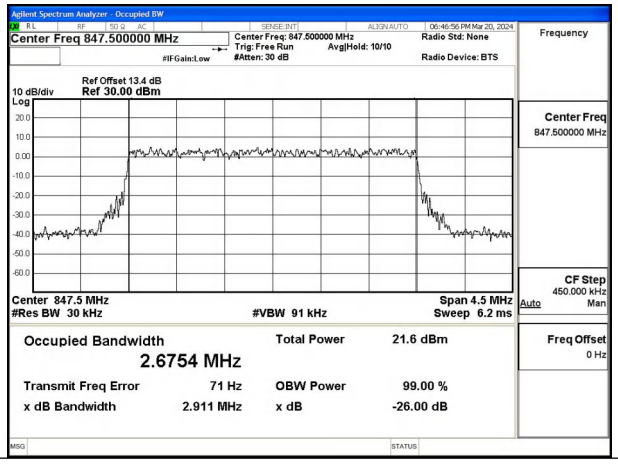

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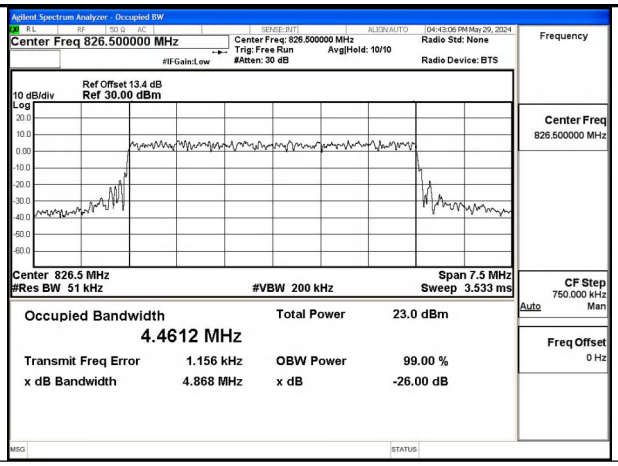

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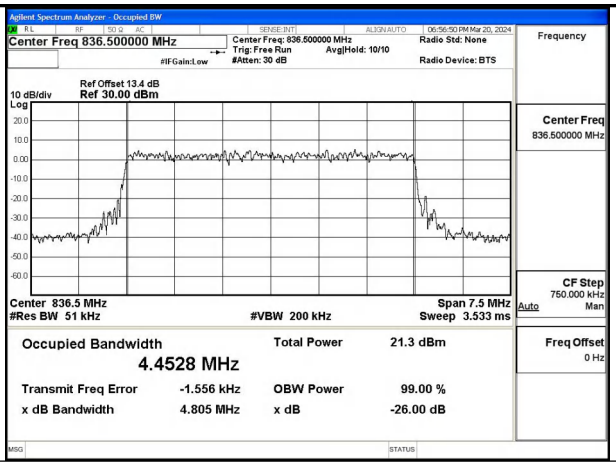

Fig.20

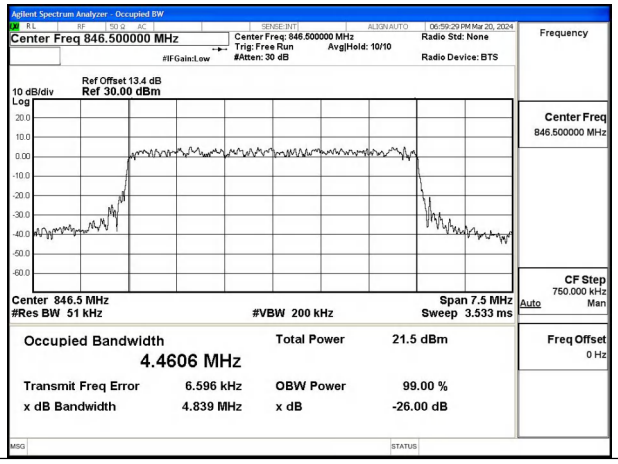

Fig.21

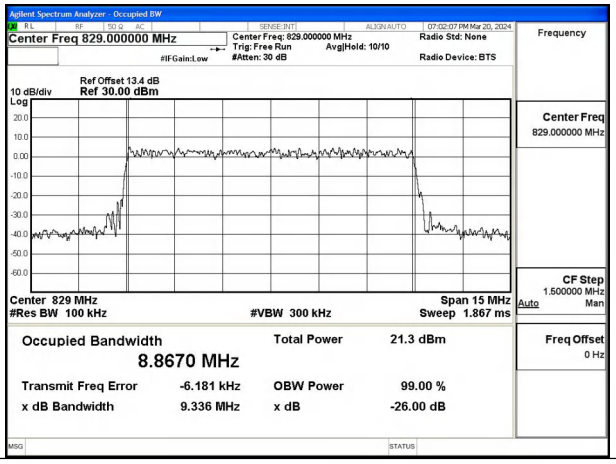

Fig.22

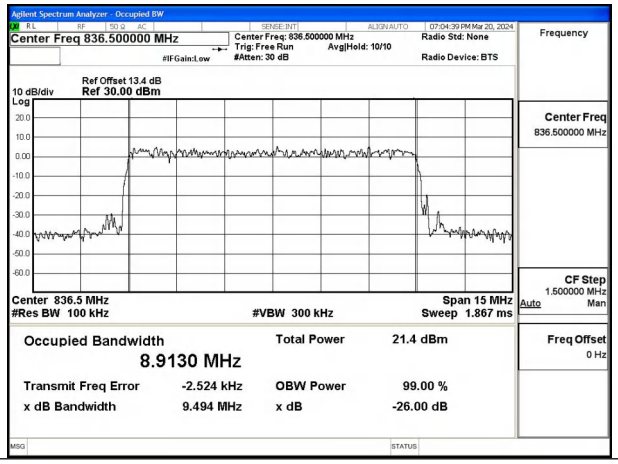

Fig.23

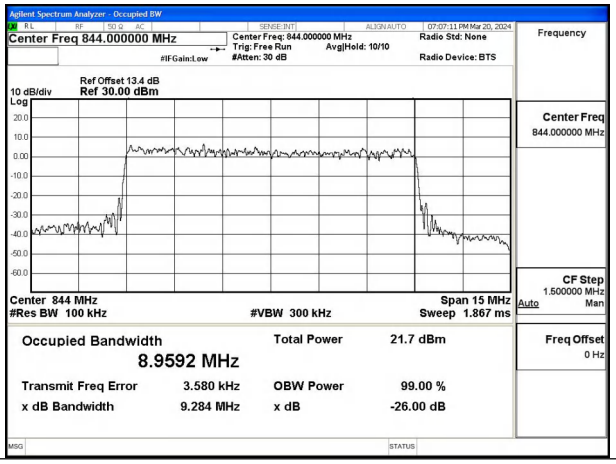

Fig.24

Test Mode: 64QAM

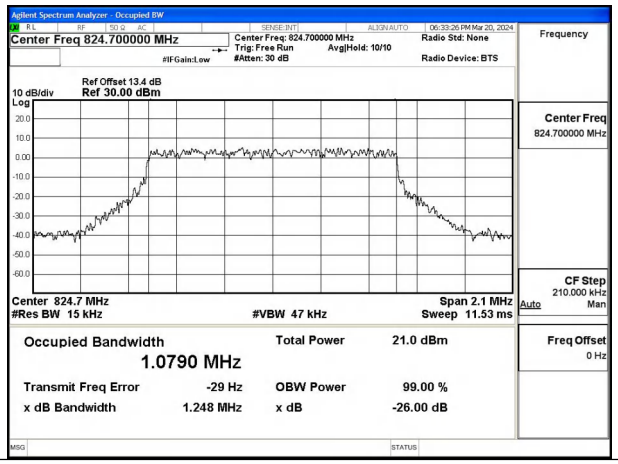

Fig.25

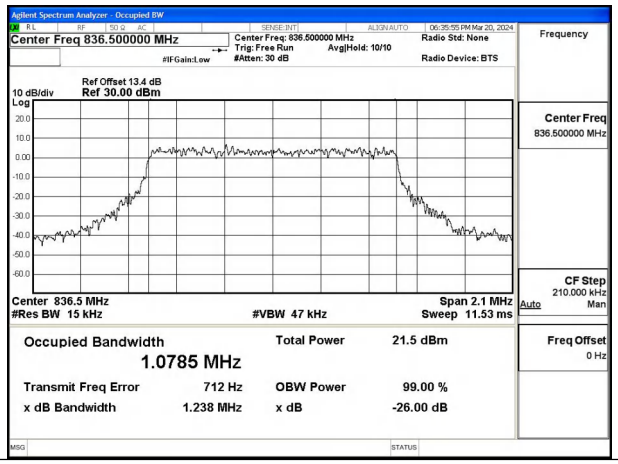

Fig.26

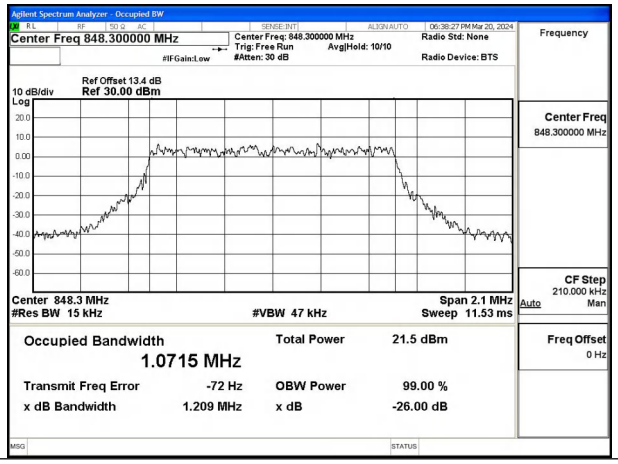

Fig.27

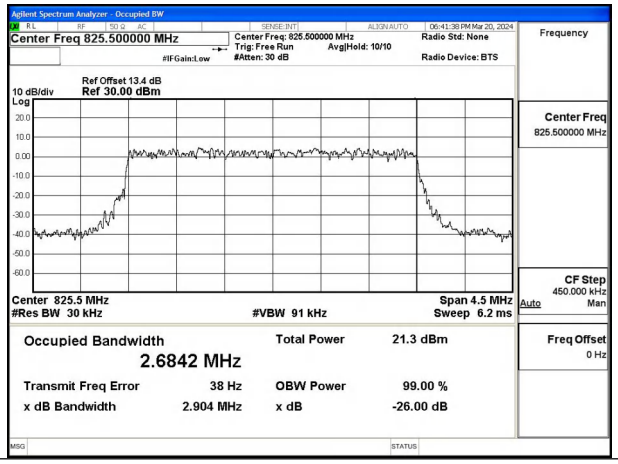

Fig.28

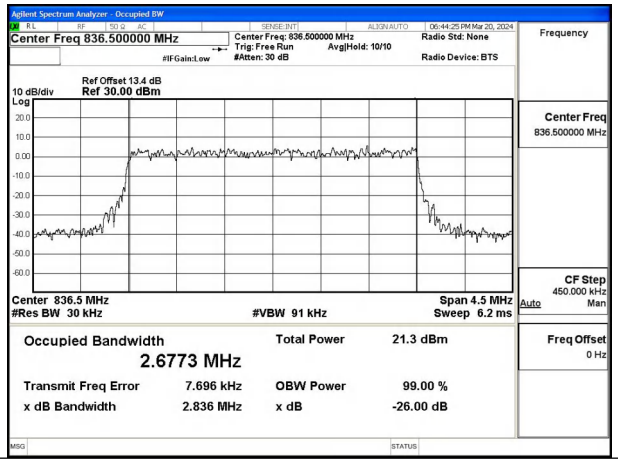

Fig.29

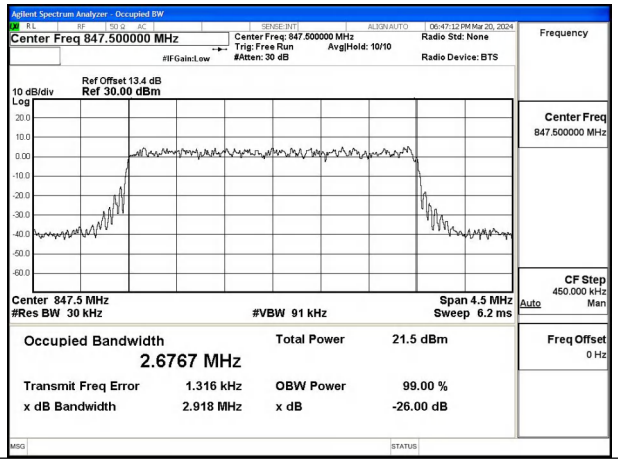

Fig.30

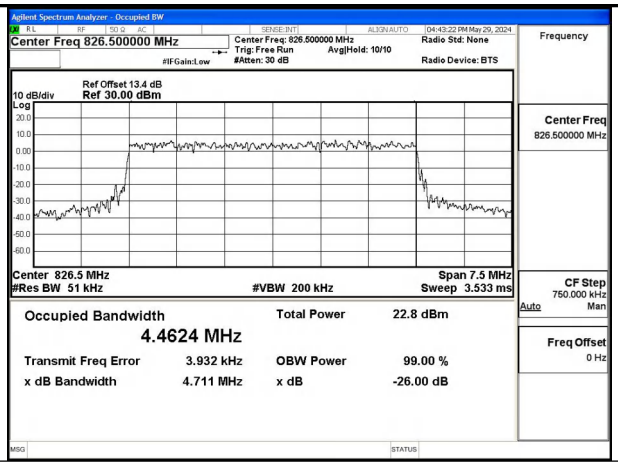

Fig.31

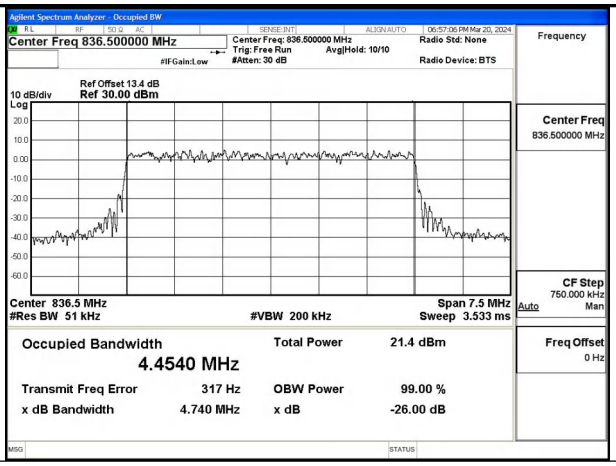

Fig.32

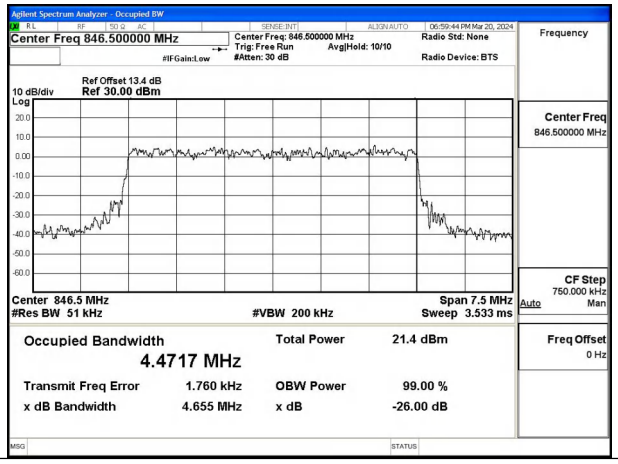

Fig.33

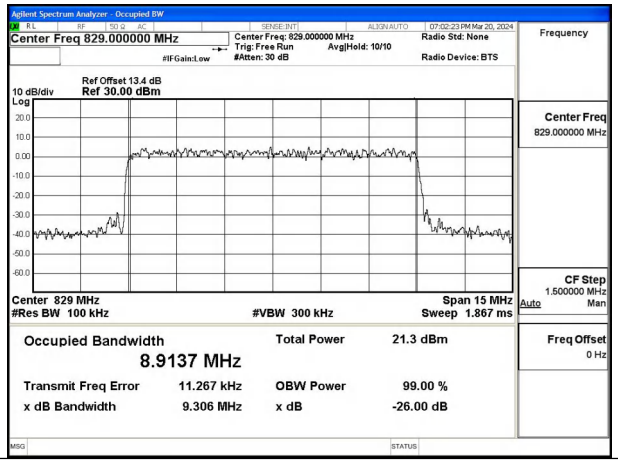

Fig.34

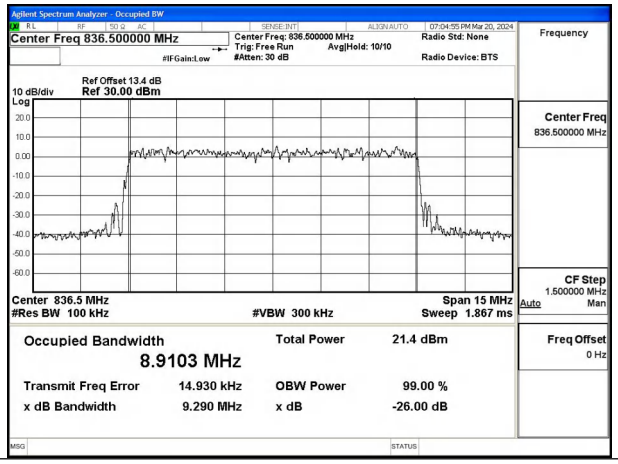

Fig.35

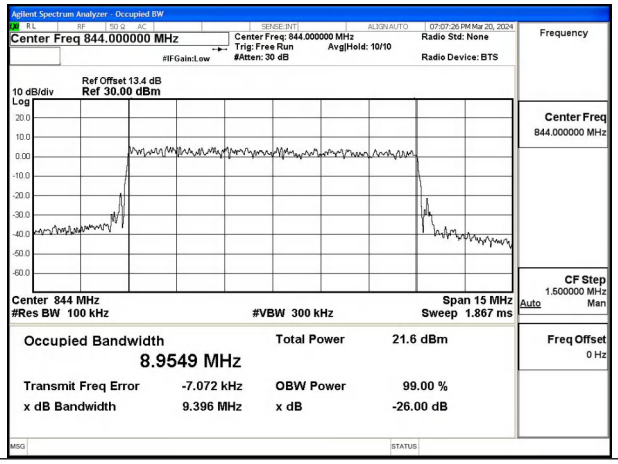

Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.279	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.220	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.241	Fig.3
5	QPSK	825.5	20415	3	15	0	2.864	Fig.4
5	QPSK	836.5	20525	3	15	0	2.862	Fig.5
5	QPSK	847.5	20635	3	15	0	2.841	Fig.6
5	QPSK	826.5	20425	5	25	0	4.792	Fig.7
5	QPSK	836.5	20525	5	25	0	4.817	Fig.8
5	QPSK	846.5	20625	5	25	0	4.743	Fig.9
5	QPSK	829	20450	10	50	0	9.409	Fig.10
5	QPSK	836.5	20525	10	50	0	9.256	Fig.11
5	QPSK	844	20600	10	50	0	9.262	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.264	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.256	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.254	Fig.15
5	16QAM	825.5	20415	3	15	0	2.934	Fig.16
5	16QAM	836.5	20525	3	15	0	2.858	Fig.17
5	16QAM	847.5	20635	3	15	0	2.911	Fig.18
5	16QAM	826.5	20425	5	25	0	4.868	Fig.19
5	16QAM	836.5	20525	5	25	0	4.805	Fig.20
5	16QAM	846.5	20625	5	25	0	4.839	Fig.21
5	16QAM	829	20450	10	50	0	9.336	Fig.22
5	16QAM	836.5	20525	10	50	0	9.494	Fig.23
5	16QAM	844	20600	10	50	0	9.284	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.248	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.238	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.209	Fig.27
5	64QAM	825.5	20415	3	15	0	2.904	Fig.28
5	64QAM	836.5	20525	3	15	0	2.836	Fig.29
5	64QAM	847.5	20635	3	15	0	2.918	Fig.30
5	64QAM	826.5	20425	5	25	0	4.711	Fig.31
5	64QAM	836.5	20525	5	25	0	4.740	Fig.32
5	64QAM	846.5	20625	5	25	0	4.655	Fig.33
5	64QAM	829	20450	10	50	0	9.306	Fig.34
5	64QAM	836.5	20525	10	50	0	9.290	Fig.35
5	64QAM	844	20600	10	50	0	9.396	Fig.36

Test Mode: QPSK

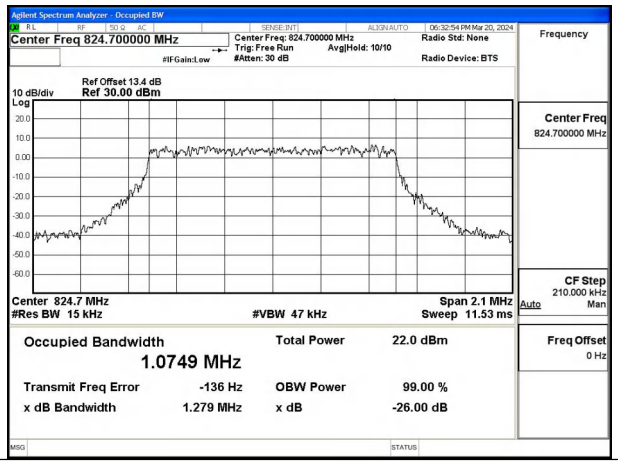

Fig.1

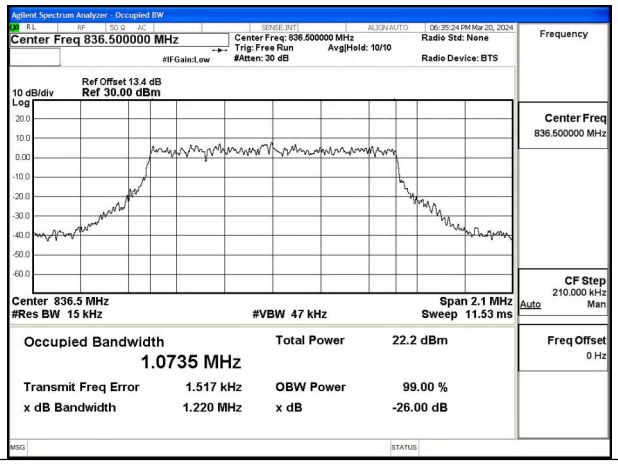

Fig.2

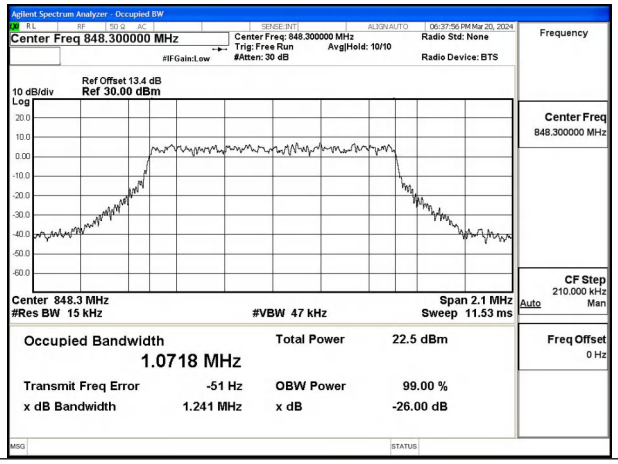

Fig.3

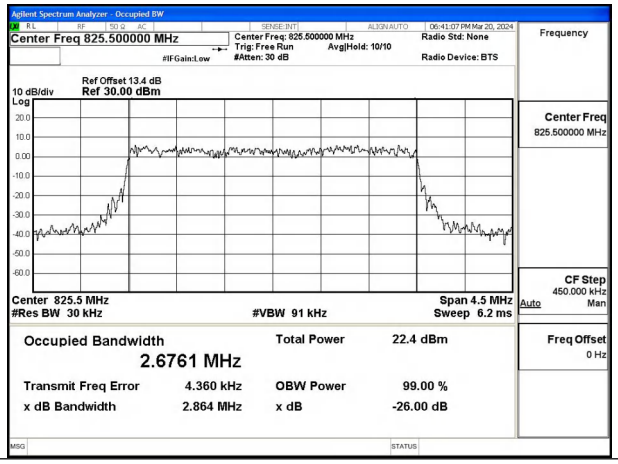

Fig.4

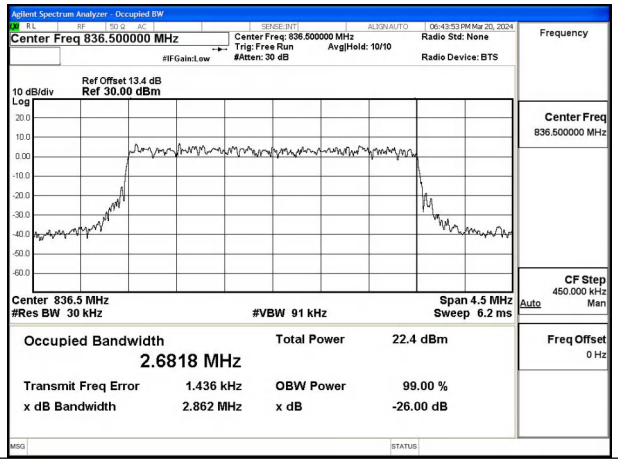

Fig.5

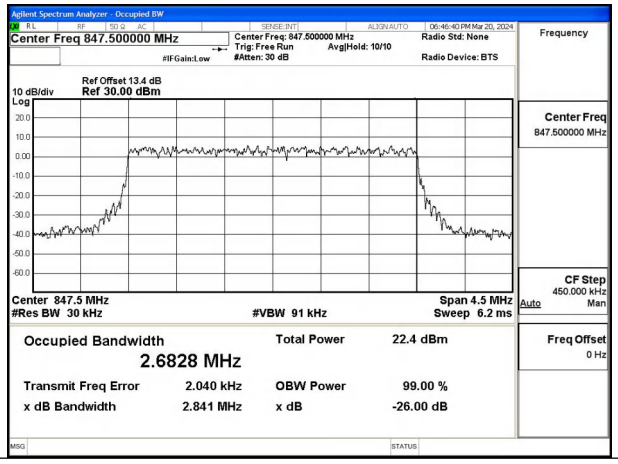

Fig.6

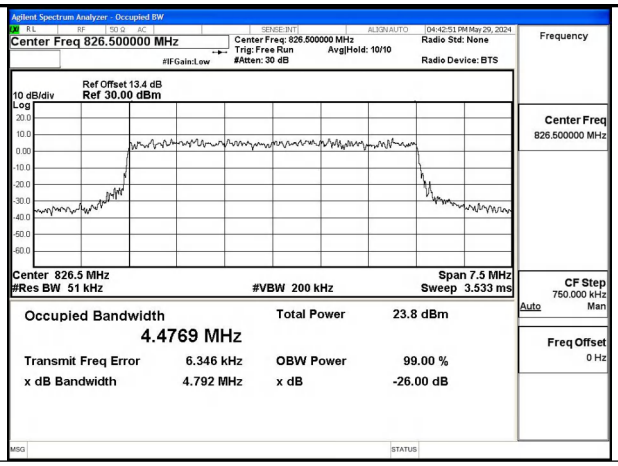

Fig.7

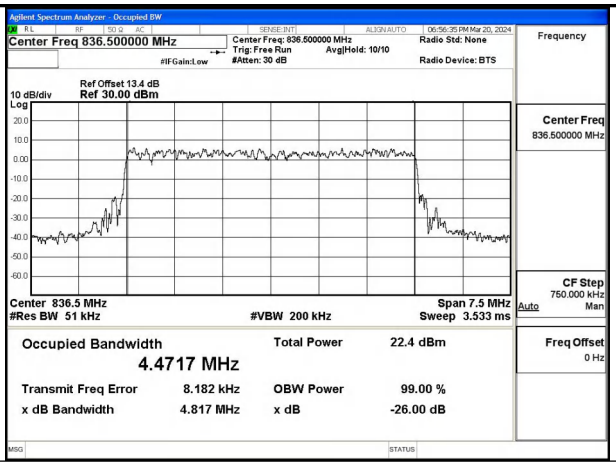

Fig.8

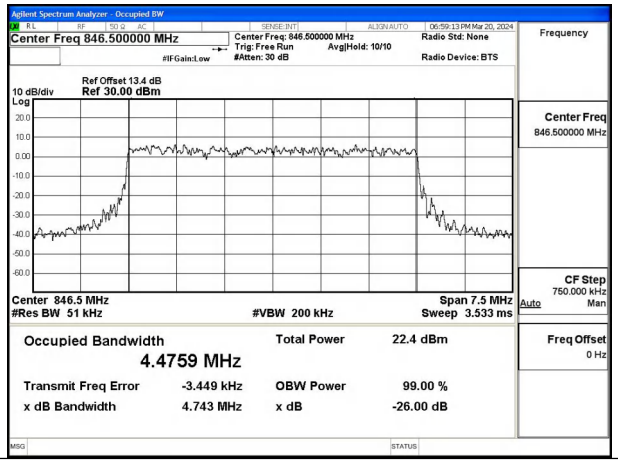

Fig.9

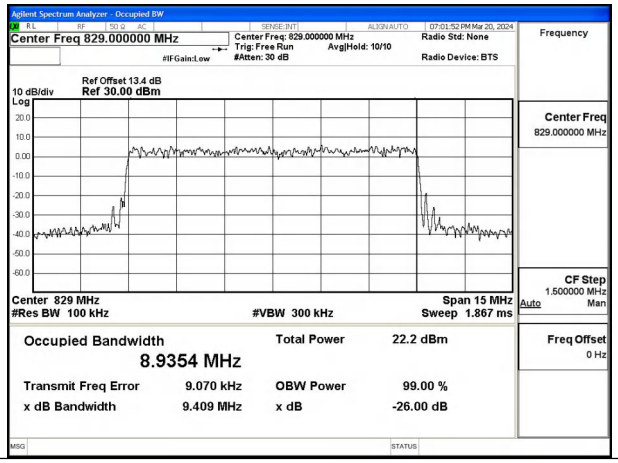

Fig.10

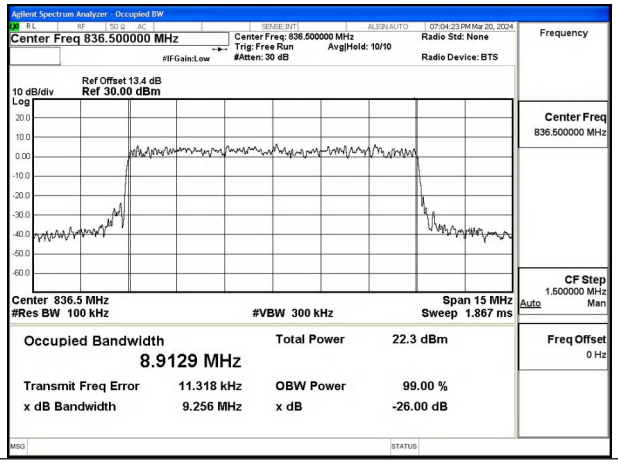

Fig.11

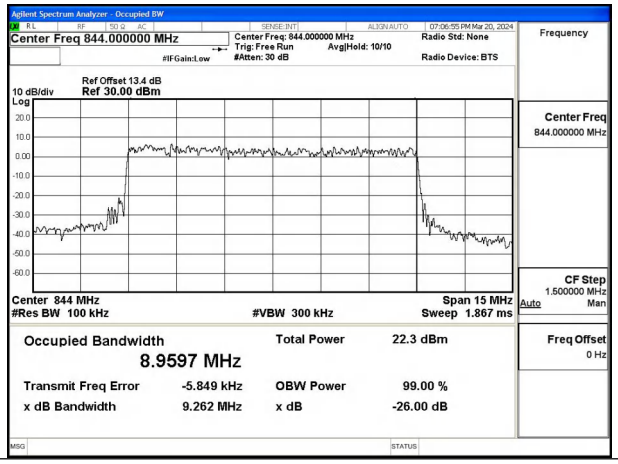

Fig.12

Test Mode: 16QAM

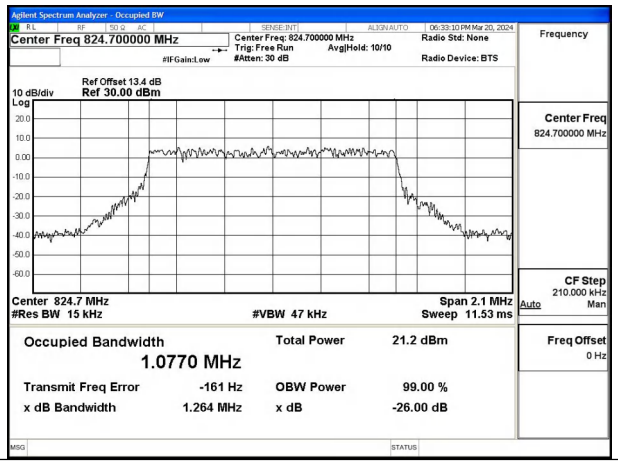

Fig.13

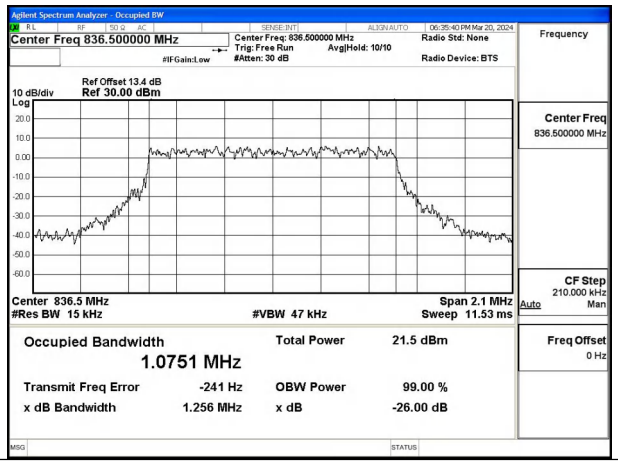

Fig.14

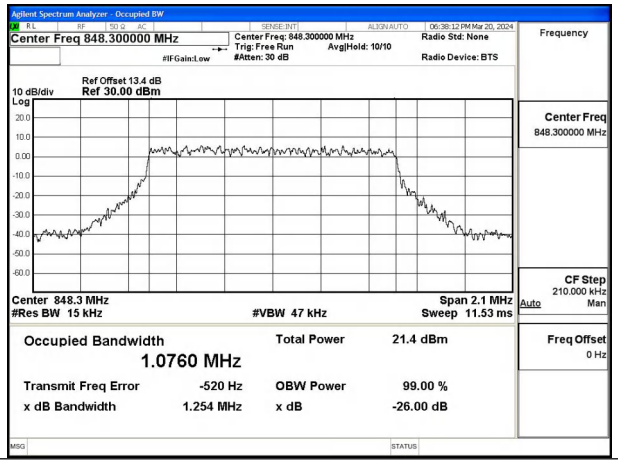

Fig.15

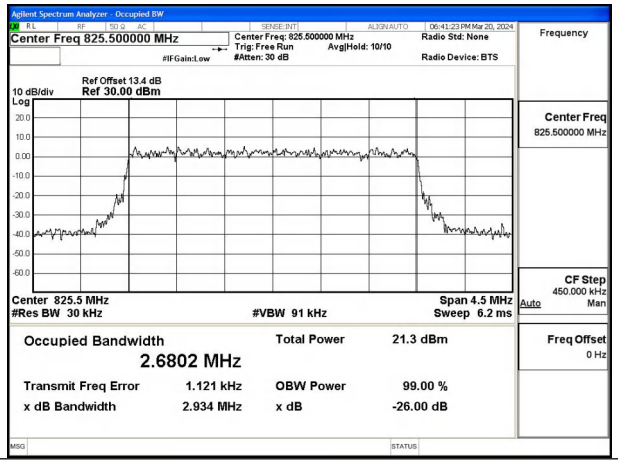

Fig.16

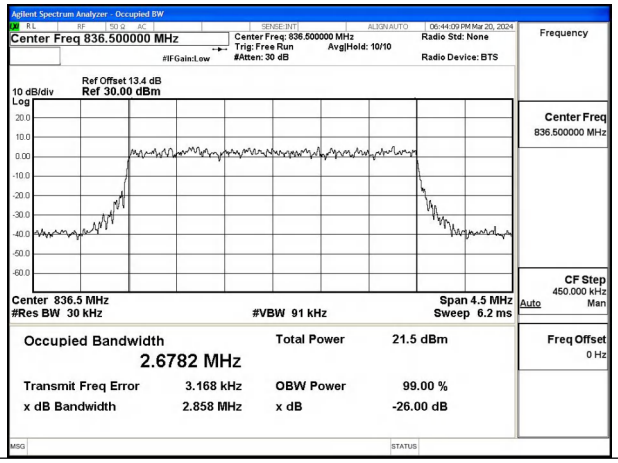

Fig.17

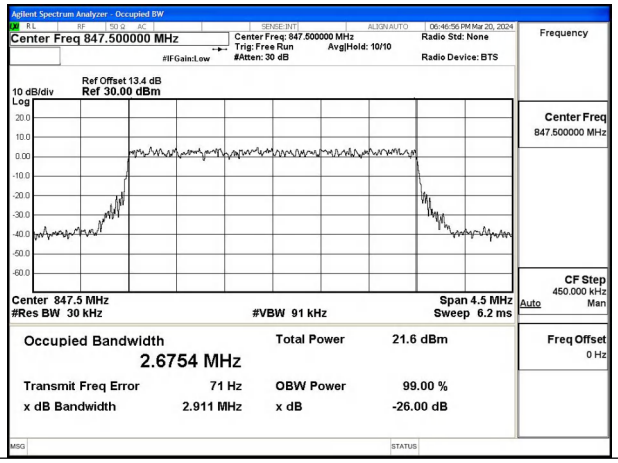

Fig.18

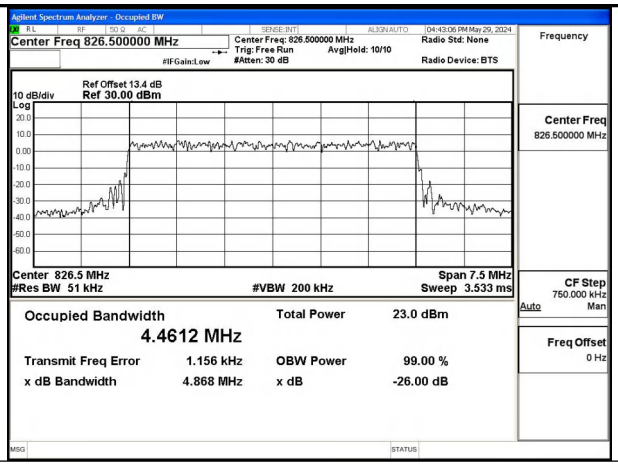

Fig.19

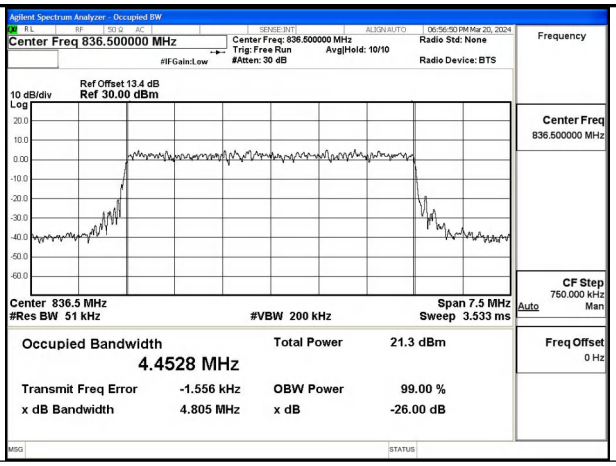

Fig.20

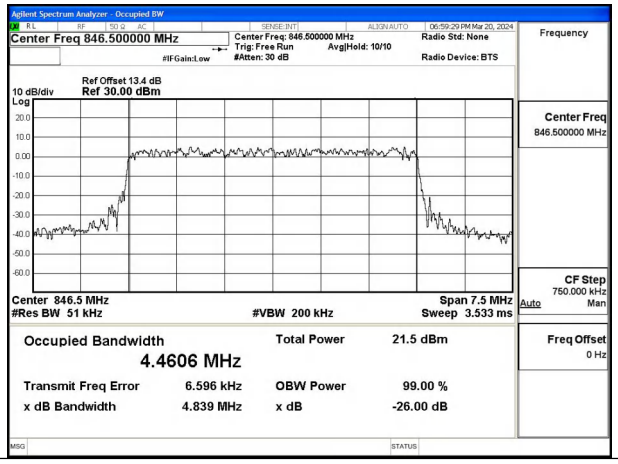

Fig.21

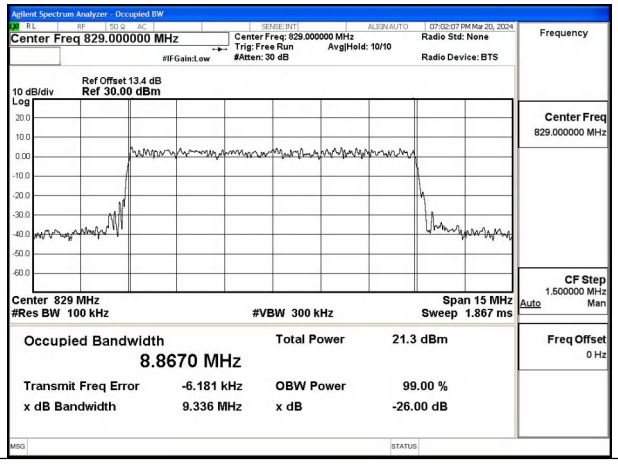

Fig.22

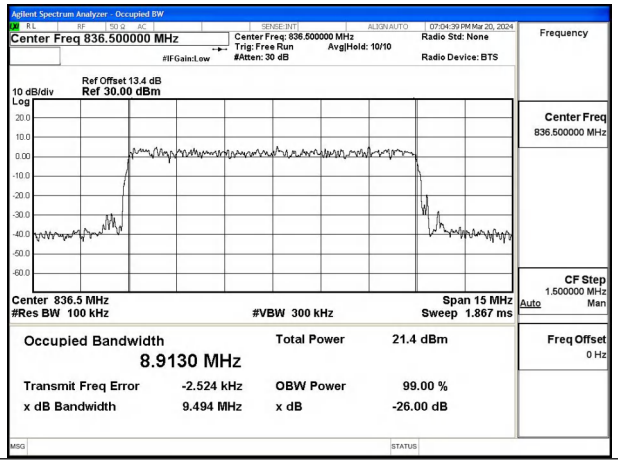

Fig.23

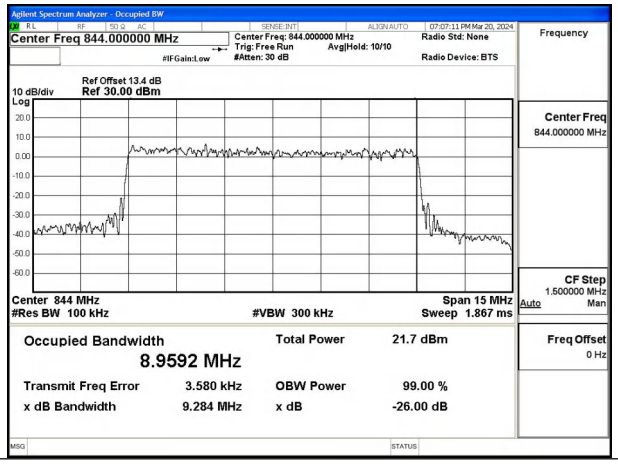

Fig.24

Test Mode: 64QAM

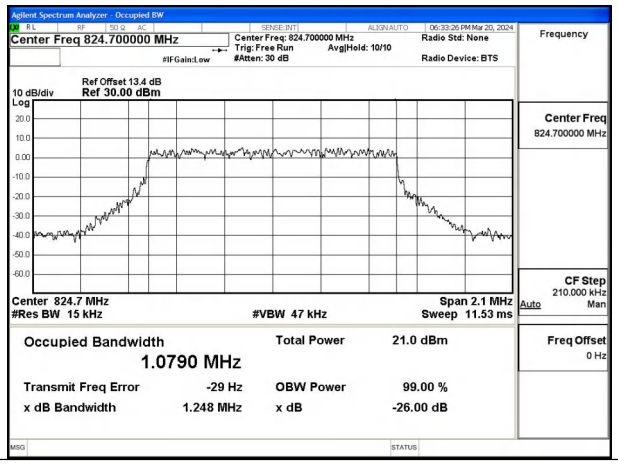

Fig.25

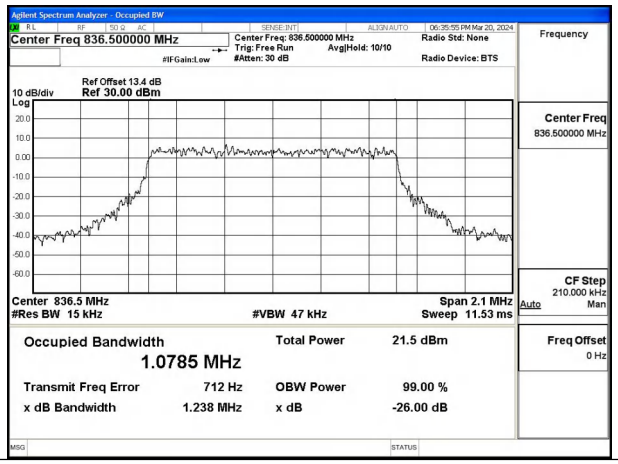

Fig.26

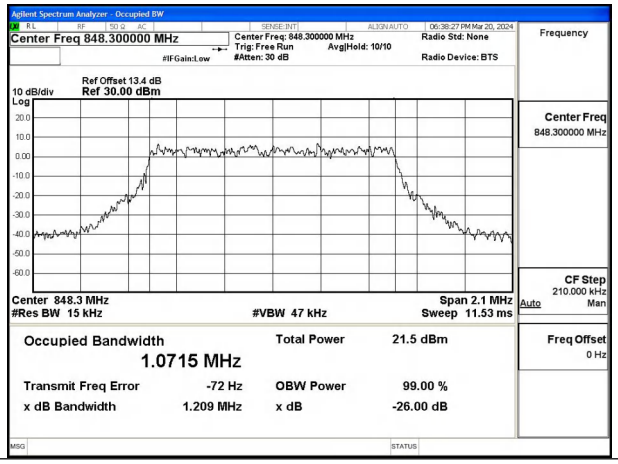

Fig.27

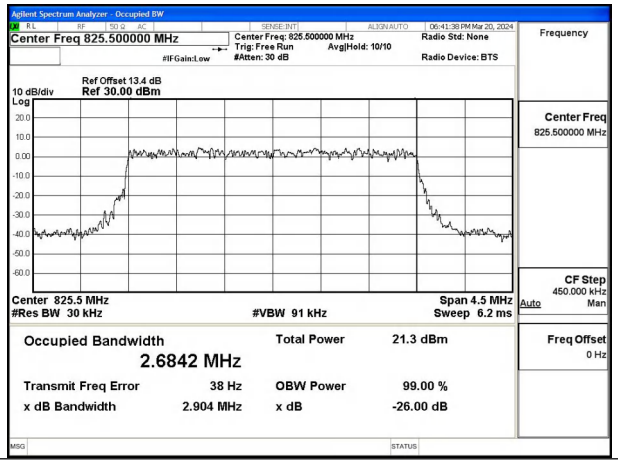

Fig.28

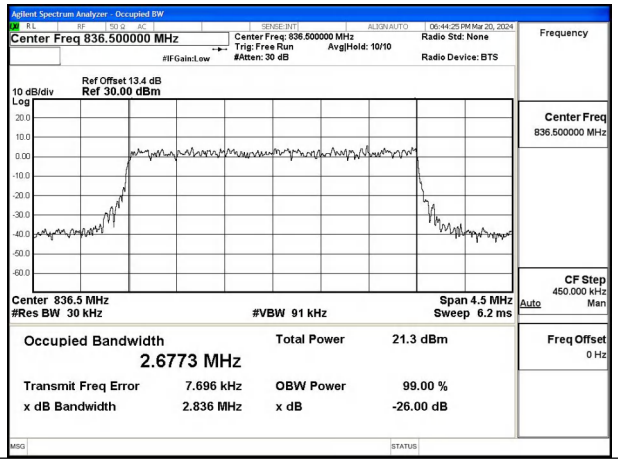

Fig.29

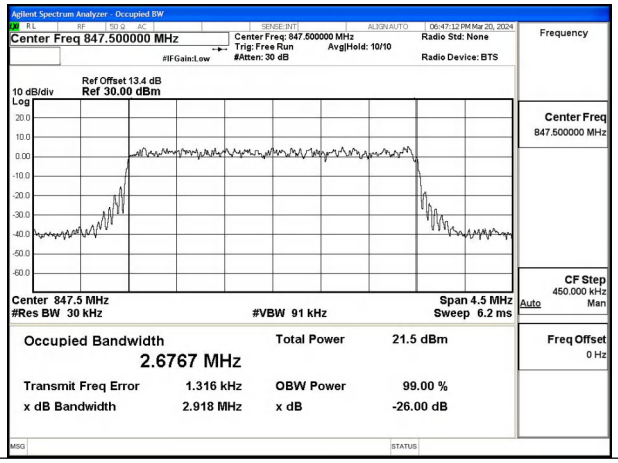

Fig.30