

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	23.05
QPSK	824.7	20407	1.4	1	3	23.02
QPSK	824.7	20407	1.4	1	5	23.06
QPSK	824.7	20407	1.4	3	0	23.15
QPSK	824.7	20407	1.4	3	1	23.17
QPSK	824.7	20407	1.4	3	3	23.14
QPSK	824.7	20407	1.4	6	0	22.15
QPSK	836.5	20525	1.4	1	0	22.99
QPSK	836.5	20525	1.4	1	3	23.10
QPSK	836.5	20525	1.4	1	5	23.09
QPSK	836.5	20525	1.4	3	0	23.17
QPSK	836.5	20525	1.4	3	1	23.07
QPSK	836.5	20525	1.4	3	3	23.04
QPSK	836.5	20525	1.4	6	0	22.10
QPSK	848.3	20643	1.4	1	0	23.20
QPSK	848.3	20643	1.4	1	3	23.22
QPSK	848.3	20643	1.4	1	5	23.16
QPSK	848.3	20643	1.4	3	0	23.19
QPSK	848.3	20643	1.4	3	1	23.27
QPSK	848.3	20643	1.4	3	3	23.22
QPSK	848.3	20643	1.4	6	0	22.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.15
16QAM	824.7	20407	1.4	1	3	22.49
16QAM	824.7	20407	1.4	1	5	22.17
16QAM	824.7	20407	1.4	3	0	21.99
16QAM	824.7	20407	1.4	3	1	22.24
16QAM	824.7	20407	1.4	3	3	22.26
16QAM	824.7	20407	1.4	6	0	21.08
16QAM	836.5	20525	1.4	1	0	21.83
16QAM	836.5	20525	1.4	1	3	22.00
16QAM	836.5	20525	1.4	1	5	22.37
16QAM	836.5	20525	1.4	3	0	22.24
16QAM	836.5	20525	1.4	3	1	22.31
16QAM	836.5	20525	1.4	3	3	22.10
16QAM	836.5	20525	1.4	6	0	21.05
16QAM	848.3	20643	1.4	1	0	22.80
16QAM	848.3	20643	1.4	1	3	22.72
16QAM	848.3	20643	1.4	1	5	22.69

16QAM	848.3	20643	1.4	3	0	22.39
16QAM	848.3	20643	1.4	3	1	22.36
16QAM	848.3	20643	1.4	3	3	22.14
16QAM	848.3	20643	1.4	6	0	21.14
64QAM	824.7	20407	1.4	1	0	22.01
64QAM	824.7	20407	1.4	1	3	22.06
64QAM	824.7	20407	1.4	1	5	22.35
64QAM	824.7	20407	1.4	3	0	22.26
64QAM	824.7	20407	1.4	3	1	22.20
64QAM	824.7	20407	1.4	3	3	22.20
64QAM	824.7	20407	1.4	6	0	21.21
64QAM	836.5	20525	1.4	1	0	22.59
64QAM	836.5	20525	1.4	1	3	22.22
64QAM	836.5	20525	1.4	1	5	21.67
64QAM	836.5	20525	1.4	3	0	22.07
64QAM	836.5	20525	1.4	3	1	22.15
64QAM	836.5	20525	1.4	3	3	22.20
64QAM	836.5	20525	1.4	6	0	21.09
64QAM	848.3	20643	1.4	1	0	22.35
64QAM	848.3	20643	1.4	1	3	22.15
64QAM	848.3	20643	1.4	1	5	22.26
64QAM	848.3	20643	1.4	3	0	22.43
64QAM	848.3	20643	1.4	3	1	22.46
64QAM	848.3	20643	1.4	3	3	22.27
64QAM	848.3	20643	1.4	6	0	21.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.12
QPSK	825.5	20415	3	1	8	23.22
QPSK	825.5	20415	3	1	14	23.02
QPSK	825.5	20415	3	8	0	22.16
QPSK	825.5	20415	3	8	4	22.25
QPSK	825.5	20415	3	8	7	22.20
QPSK	825.5	20415	3	15	0	22.19
QPSK	836.5	20525	3	1	0	23.22
QPSK	836.5	20525	3	1	8	23.17
QPSK	836.5	20525	3	1	14	23.15
QPSK	836.5	20525	3	8	0	22.02
QPSK	836.5	20525	3	8	4	22.15
QPSK	836.5	20525	3	8	7	22.14
QPSK	836.5	20525	3	15	0	22.16
QPSK	847.5	20635	3	1	0	23.16
QPSK	847.5	20635	3	1	8	23.20
QPSK	847.5	20635	3	1	14	23.09
QPSK	847.5	20635	3	8	0	22.21

QPSK	847.5	20635	3	8	4	22.20
QPSK	847.5	20635	3	8	7	22.17
QPSK	847.5	20635	3	15	0	22.25

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.76
16QAM	825.5	20415	3	1	8	22.54
16QAM	825.5	20415	3	1	14	22.38
16QAM	825.5	20415	3	8	0	21.23
16QAM	825.5	20415	3	8	4	21.15
16QAM	825.5	20415	3	8	7	21.18
16QAM	825.5	20415	3	15	0	21.22
16QAM	836.5	20525	3	1	0	22.21
16QAM	836.5	20525	3	1	8	22.28
16QAM	836.5	20525	3	1	14	22.73
16QAM	836.5	20525	3	8	0	21.04
16QAM	836.5	20525	3	8	4	21.36
16QAM	836.5	20525	3	8	7	21.35
16QAM	836.5	20525	3	15	0	21.09
16QAM	847.5	20635	3	1	0	22.75
16QAM	847.5	20635	3	1	8	22.40
16QAM	847.5	20635	3	1	14	22.43
16QAM	847.5	20635	3	8	0	21.34
16QAM	847.5	20635	3	8	4	21.31
16QAM	847.5	20635	3	8	7	21.32
16QAM	847.5	20635	3	15	0	21.24
64QAM	825.5	20415	3	1	0	22.18
64QAM	825.5	20415	3	1	8	22.24
64QAM	825.5	20415	3	1	14	22.16
64QAM	825.5	20415	3	8	0	21.31
64QAM	825.5	20415	3	8	4	21.14
64QAM	825.5	20415	3	8	7	21.14
64QAM	825.5	20415	3	15	0	21.15
64QAM	836.5	20525	3	1	0	22.21
64QAM	836.5	20525	3	1	8	22.42
64QAM	836.5	20525	3	1	14	22.03
64QAM	836.5	20525	3	8	0	21.00
64QAM	836.5	20525	3	8	4	21.23
64QAM	836.5	20525	3	8	7	21.09
64QAM	836.5	20525	3	15	0	21.17
64QAM	847.5	20635	3	1	0	21.89
64QAM	847.5	20635	3	1	8	22.62
64QAM	847.5	20635	3	1	14	22.47
64QAM	847.5	20635	3	8	0	21.14
64QAM	847.5	20635	3	8	4	21.13

64QAM	847.5	20635	3	8	7	21.17
64QAM	847.5	20635	3	15	0	21.24

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.17
QPSK	826.5	20425	5	1	12	23.19
QPSK	826.5	20425	5	1	24	23.01
QPSK	826.5	20425	5	12	0	22.21
QPSK	826.5	20425	5	12	7	22.17
QPSK	826.5	20425	5	12	13	22.15
QPSK	826.5	20425	5	25	0	22.17
QPSK	836.5	20525	5	1	0	23.32
QPSK	836.5	20525	5	1	12	23.05
QPSK	836.5	20525	5	1	24	23.08
QPSK	836.5	20525	5	12	0	22.10
QPSK	836.5	20525	5	12	7	22.20
QPSK	836.5	20525	5	12	13	22.19
QPSK	836.5	20525	5	25	0	22.09
QPSK	846.5	20625	5	1	0	23.20
QPSK	846.5	20625	5	1	12	23.25
QPSK	846.5	20625	5	1	24	23.10
QPSK	846.5	20625	5	12	0	22.14
QPSK	846.5	20625	5	12	7	22.12
QPSK	846.5	20625	5	12	13	22.18
QPSK	846.5	20625	5	25	0	22.17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.50
16QAM	826.5	20425	5	1	12	22.75
16QAM	826.5	20425	5	1	24	22.53
16QAM	826.5	20425	5	12	0	21.19
16QAM	826.5	20425	5	12	7	21.20
16QAM	826.5	20425	5	12	13	21.21
16QAM	826.5	20425	5	25	0	21.26
16QAM	836.5	20525	5	1	0	22.28
16QAM	836.5	20525	5	1	12	22.10
16QAM	836.5	20525	5	1	24	22.47
16QAM	836.5	20525	5	12	0	21.23
16QAM	836.5	20525	5	12	7	21.21
16QAM	836.5	20525	5	12	13	21.16
16QAM	836.5	20525	5	25	0	21.08
16QAM	846.5	20625	5	1	0	23.09
16QAM	846.5	20625	5	1	12	22.40
16QAM	846.5	20625	5	1	24	22.29
16QAM	846.5	20625	5	12	0	21.25
16QAM	846.5	20625	5	12	7	21.08

16QAM	846.5	20625	5	12	13	21.14
16QAM	846.5	20625	5	25	0	21.13
64QAM	826.5	20425	5	1	0	22.34
64QAM	826.5	20425	5	1	12	22.16
64QAM	826.5	20425	5	1	24	22.39
64QAM	826.5	20425	5	12	0	21.08
64QAM	826.5	20425	5	12	7	21.14
64QAM	826.5	20425	5	12	13	21.27
64QAM	826.5	20425	5	25	0	21.14
64QAM	836.5	20525	5	1	0	22.01
64QAM	836.5	20525	5	1	12	22.37
64QAM	836.5	20525	5	1	24	22.25
64QAM	836.5	20525	5	12	0	21.16
64QAM	836.5	20525	5	12	7	21.28
64QAM	836.5	20525	5	12	13	21.19
64QAM	836.5	20525	5	25	0	20.99
64QAM	846.5	20625	5	1	0	22.37
64QAM	846.5	20625	5	1	12	22.70
64QAM	846.5	20625	5	1	24	22.29
64QAM	846.5	20625	5	12	0	21.08
64QAM	846.5	20625	5	12	7	21.24
64QAM	846.5	20625	5	12	13	21.31
64QAM	846.5	20625	5	25	0	21.07

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.35
QPSK	829	20450	10	1	25	22.96
QPSK	829	20450	10	1	49	22.87
QPSK	829	20450	10	25	0	22.19
QPSK	829	20450	10	25	12	22.24
QPSK	829	20450	10	25	25	22.15
QPSK	829	20450	10	50	0	22.23
QPSK	836.5	20525	10	1	0	23.10
QPSK	836.5	20525	10	1	25	23.13
QPSK	836.5	20525	10	1	49	23.14
QPSK	836.5	20525	10	25	0	22.12
QPSK	836.5	20525	10	25	12	22.09
QPSK	836.5	20525	10	25	25	22.22
QPSK	836.5	20525	10	50	0	22.15
QPSK	844	20600	10	1	0	23.18
QPSK	844	20600	10	1	25	23.12
QPSK	844	20600	10	1	49	23.20
QPSK	844	20600	10	25	0	22.16
QPSK	844	20600	10	25	12	22.23
QPSK	844	20600	10	25	25	22.16

QPSK	844	20600	10	50	0	22.22
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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.52
16QAM	829	20450	10	1	25	22.53
16QAM	829	20450	10	1	49	22.37
16QAM	829	20450	10	25	0	21.12
16QAM	829	20450	10	25	12	21.28
16QAM	829	20450	10	25	25	21.04
16QAM	829	20450	10	50	0	21.17
16QAM	836.5	20525	10	1	0	21.82
16QAM	836.5	20525	10	1	25	22.37
16QAM	836.5	20525	10	1	49	22.30
16QAM	836.5	20525	10	25	0	21.13
16QAM	836.5	20525	10	25	12	21.08
16QAM	836.5	20525	10	25	25	21.20
16QAM	836.5	20525	10	50	0	21.17
16QAM	844	20600	10	1	0	22.90
16QAM	844	20600	10	1	25	22.47
16QAM	844	20600	10	1	49	22.32
16QAM	844	20600	10	25	0	21.18
16QAM	844	20600	10	25	12	21.21
16QAM	844	20600	10	25	25	21.19
16QAM	844	20600	10	50	0	21.16
64QAM	829	20450	10	1	0	22.29
64QAM	829	20450	10	1	25	22.21
64QAM	829	20450	10	1	49	22.18
64QAM	829	20450	10	25	0	21.06
64QAM	829	20450	10	25	12	21.12
64QAM	829	20450	10	25	25	21.22
64QAM	829	20450	10	50	0	21.09
64QAM	836.5	20525	10	1	0	22.14
64QAM	836.5	20525	10	1	25	22.50
64QAM	836.5	20525	10	1	49	21.87
64QAM	836.5	20525	10	25	0	21.11
64QAM	836.5	20525	10	25	12	20.96
64QAM	836.5	20525	10	25	25	21.17
64QAM	836.5	20525	10	50	0	21.18
64QAM	844	20600	10	1	0	22.66
64QAM	844	20600	10	1	25	22.11
64QAM	844	20600	10	1	49	22.22
64QAM	844	20600	10	25	0	21.25
64QAM	844	20600	10	25	12	21.16
64QAM	844	20600	10	25	25	21.24
64QAM	844	20600	10	50	0	21.21

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	1.077	Fig.3
5	QPSK	825.5	20415	3	15	0	2.682	Fig.4
5	QPSK	836.5	20525	3	15	0	2.674	Fig.5
5	QPSK	847.5	20635	3	15	0	2.688	Fig.6
5	QPSK	826.5	20425	5	25	0	4.453	Fig.7
5	QPSK	836.5	20525	5	25	0	4.469	Fig.8
5	QPSK	846.5	20625	5	25	0	4.457	Fig.9
5	QPSK	829	20450	10	50	0	8.886	Fig.10
5	QPSK	836.5	20525	10	50	0	8.922	Fig.11
5	QPSK	844	20600	10	50	0	8.884	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	1.078	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.079	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.071	Fig.15
5	16QAM	825.5	20415	3	15	0	2.690	Fig.16
5	16QAM	836.5	20525	3	15	0	2.676	Fig.17
5	16QAM	847.5	20635	3	15	0	2.685	Fig.18
5	16QAM	826.5	20425	5	25	0	4.454	Fig.19
5	16QAM	836.5	20525	5	25	0	4.460	Fig.20
5	16QAM	846.5	20625	5	25	0	4.463	Fig.21
5	16QAM	829	20450	10	50	0	8.895	Fig.22
5	16QAM	836.5	20525	10	50	0	8.941	Fig.23
5	16QAM	844	20600	10	50	0	8.893	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	1.074	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.071	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.078	Fig.27
5	64QAM	825.5	20415	3	15	0	2.677	Fig.28
5	64QAM	836.5	20525	3	15	0	2.667	Fig.29
5	64QAM	847.5	20635	3	15	0	2.679	Fig.30
5	64QAM	826.5	20425	5	25	0	4.461	Fig.31
5	64QAM	836.5	20525	5	25	0	4.458	Fig.32
5	64QAM	846.5	20625	5	25	0	4.465	Fig.33
5	64QAM	829	20450	10	50	0	8.900	Fig.34
5	64QAM	836.5	20525	10	50	0	8.875	Fig.35
5	64QAM	844	20600	10	50	0	8.880	Fig.36

Test Mode: QPSK

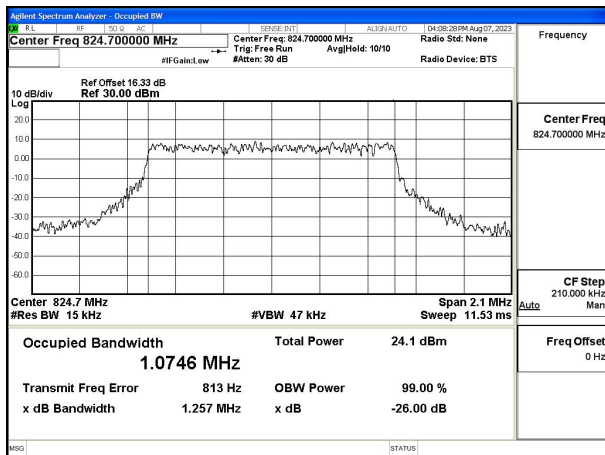


Fig.1

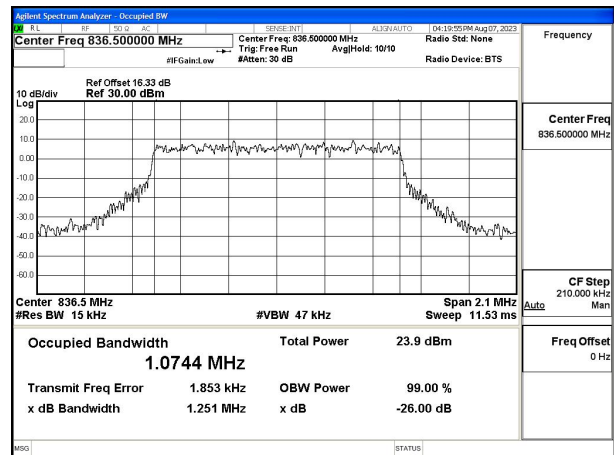


Fig.2

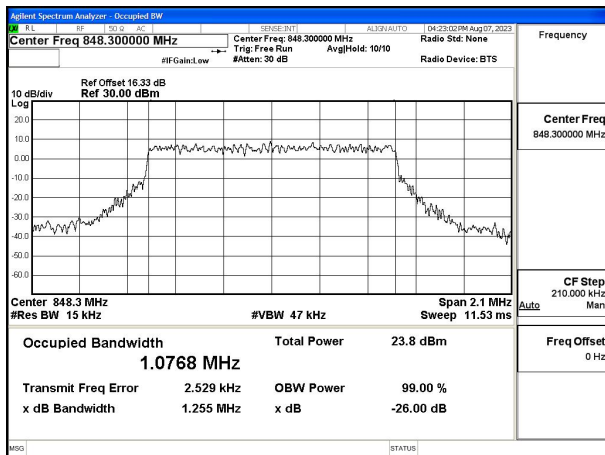


Fig.3

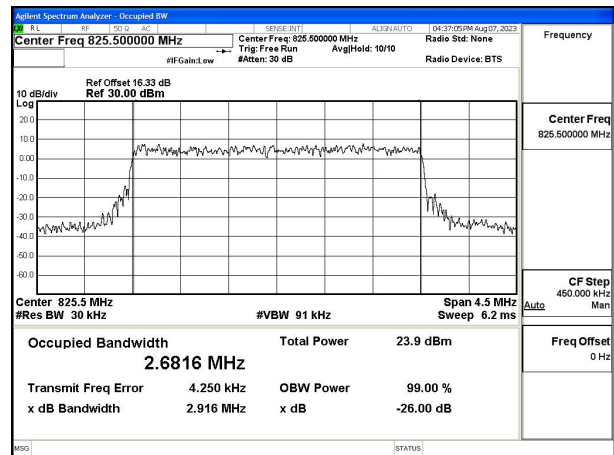


Fig.4

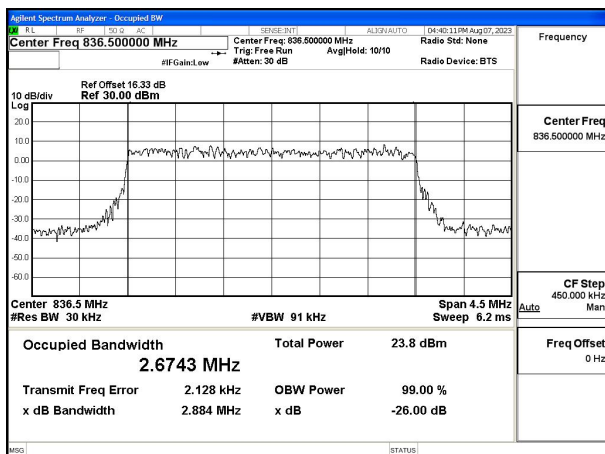


Fig.5

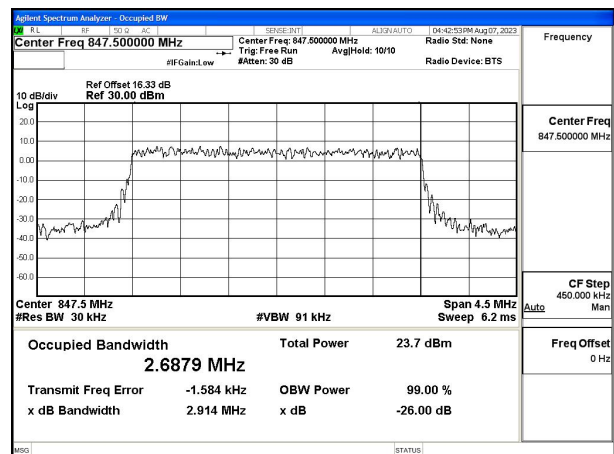


Fig.6

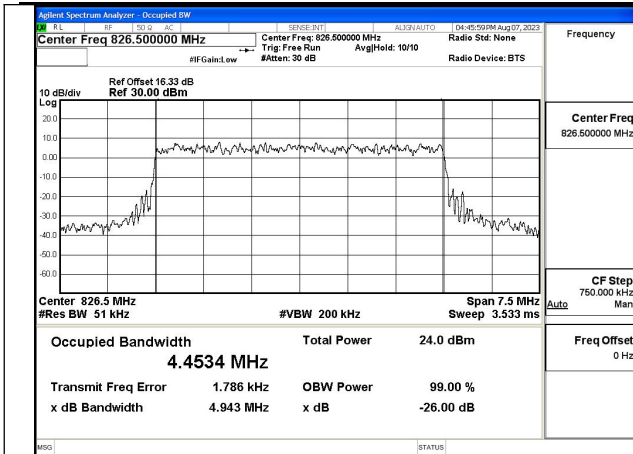


Fig. 7

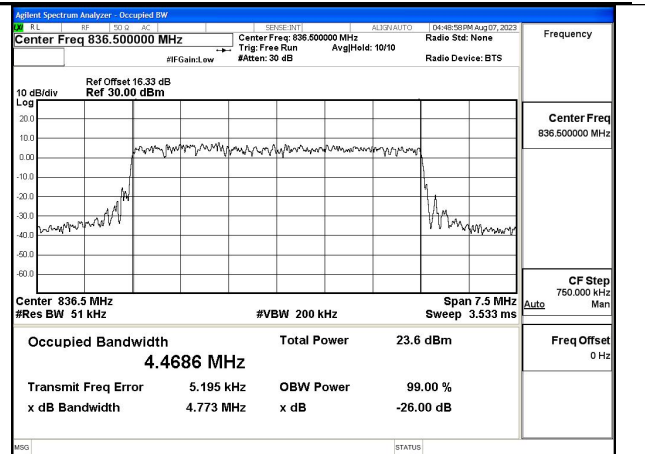


Fig. 8

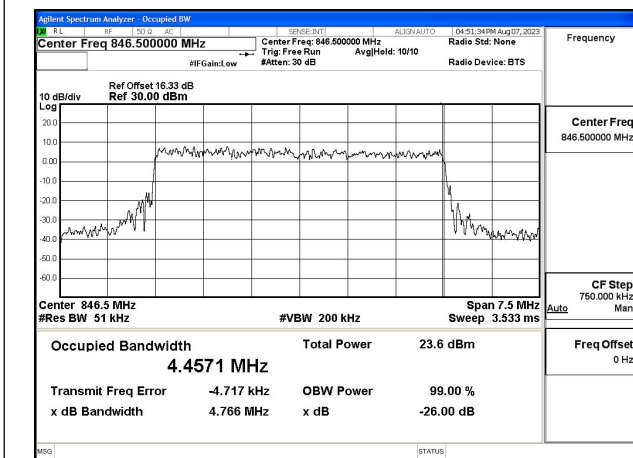


Fig. 9

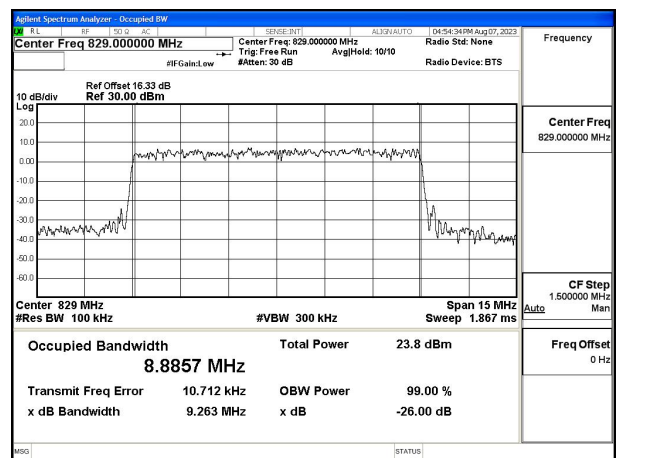


Fig. 10

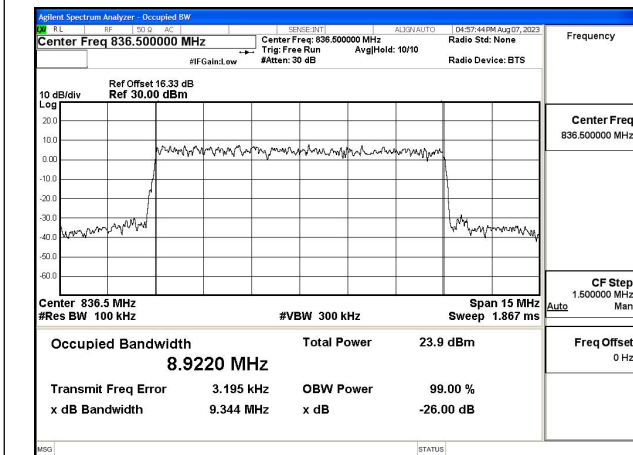


Fig. 11

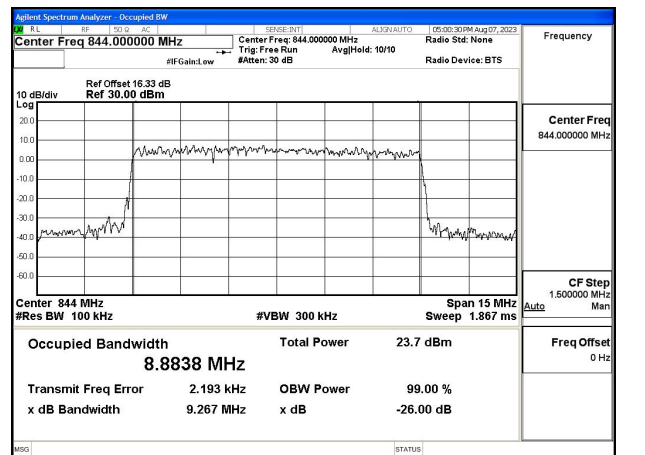


Fig. 12

Test Mode: 16QAM

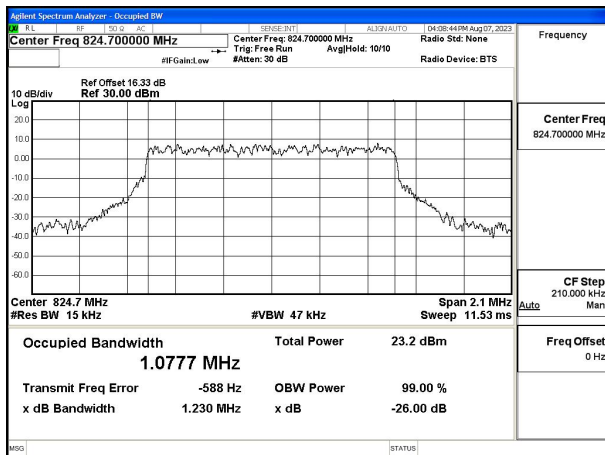


Fig.13

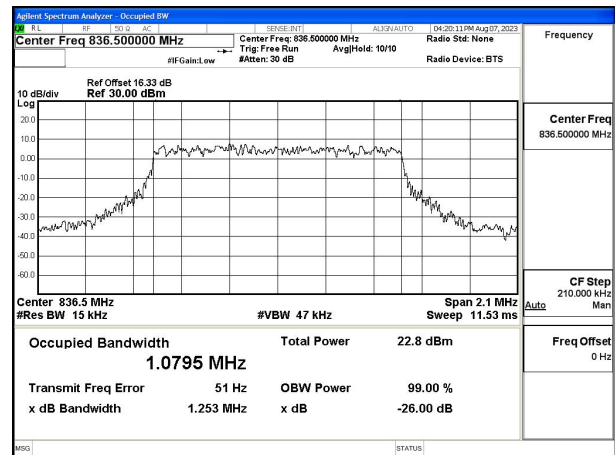


Fig.14

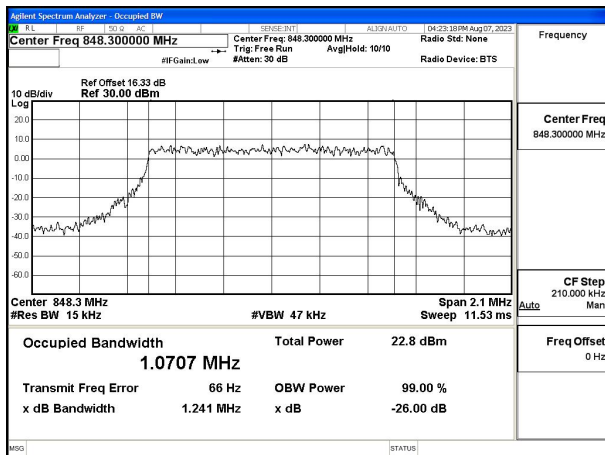


Fig.15

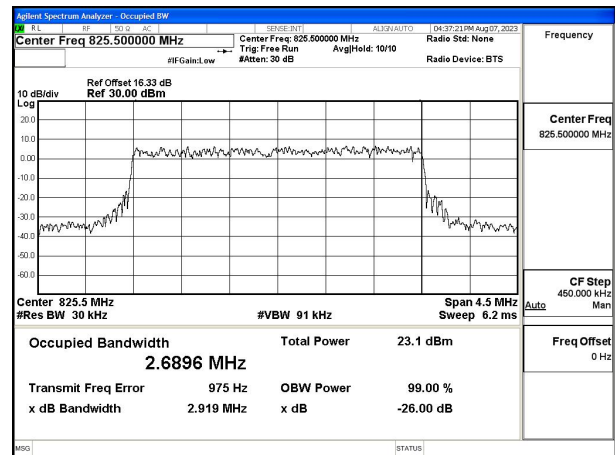


Fig.16

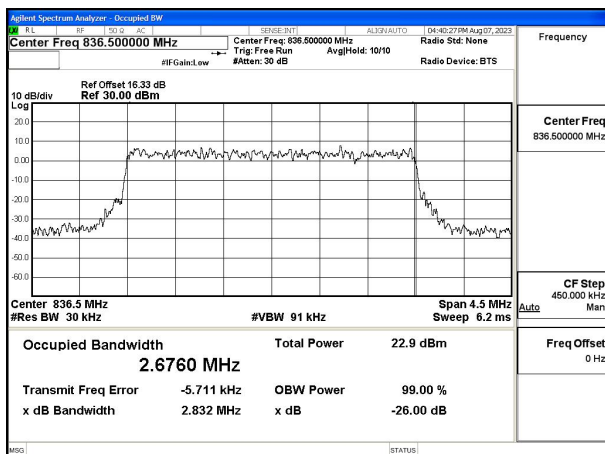


Fig.17

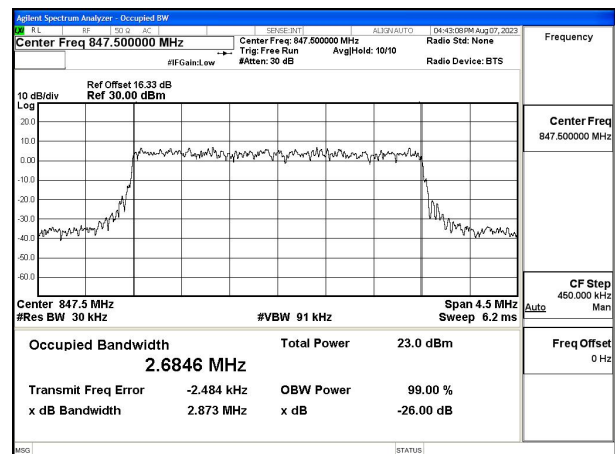


Fig.18

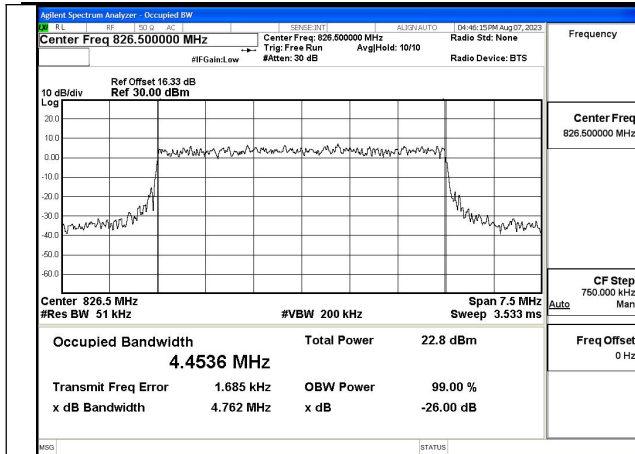


Fig.19

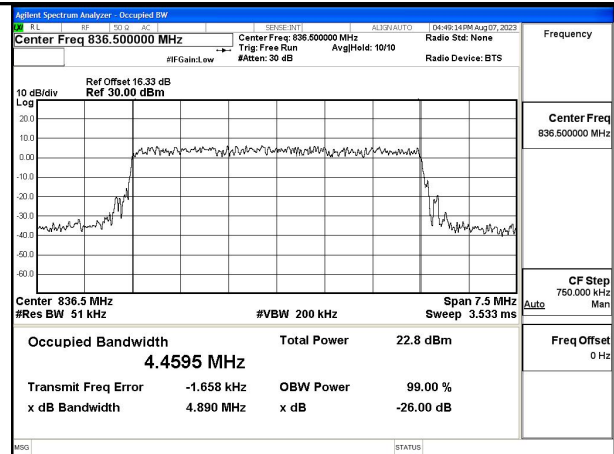


Fig.20

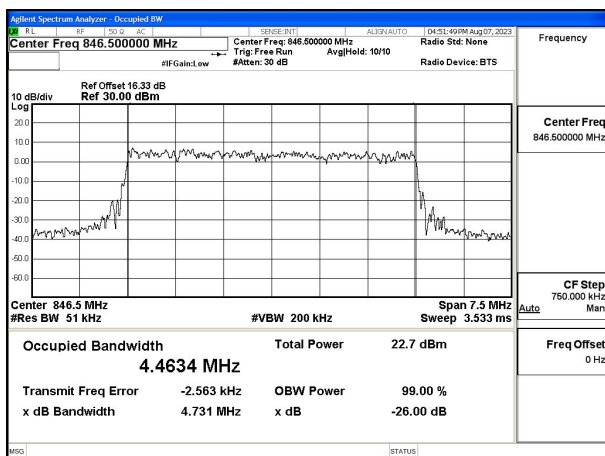


Fig.21

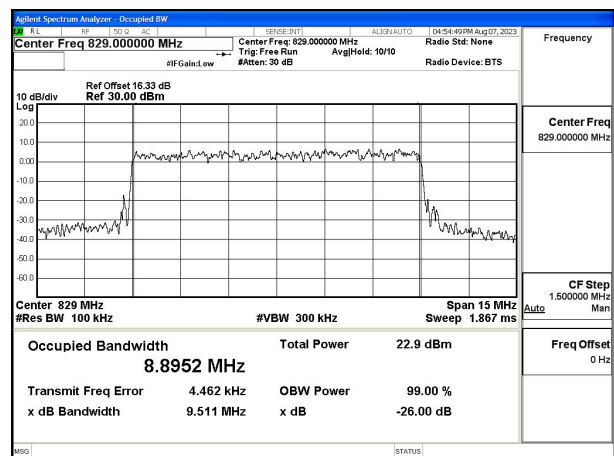


Fig.22

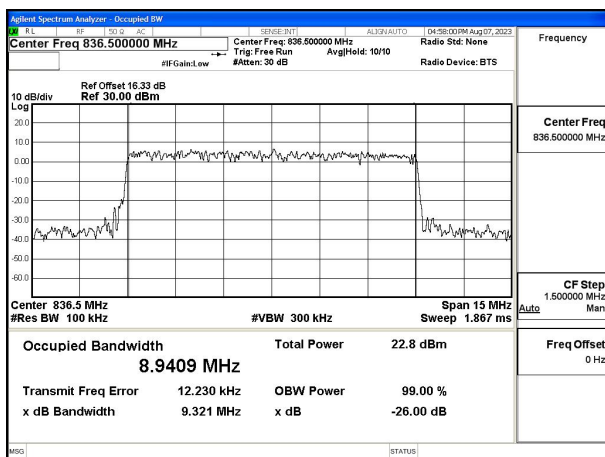


Fig.23

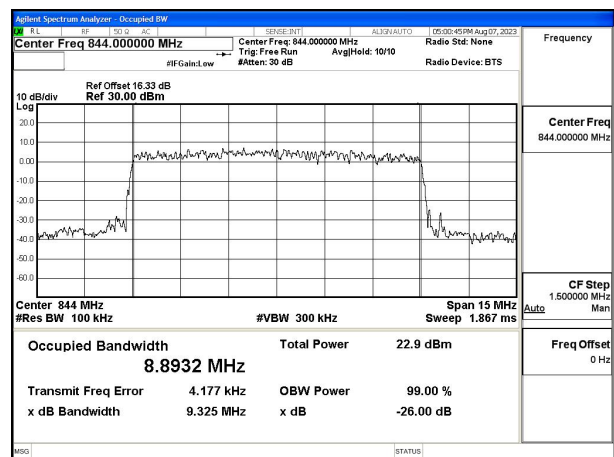


Fig.24

Test Mode: 64QAM

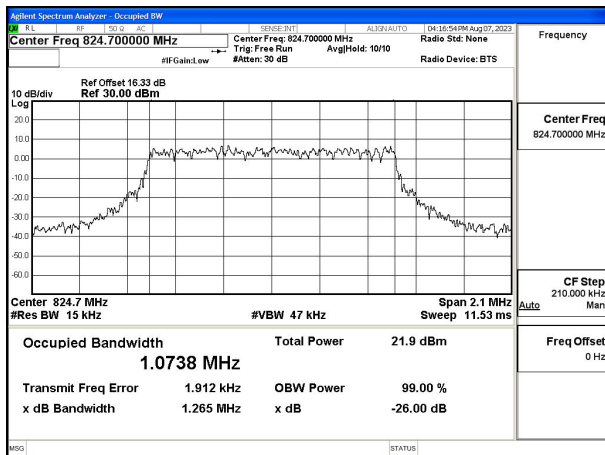


Fig.25

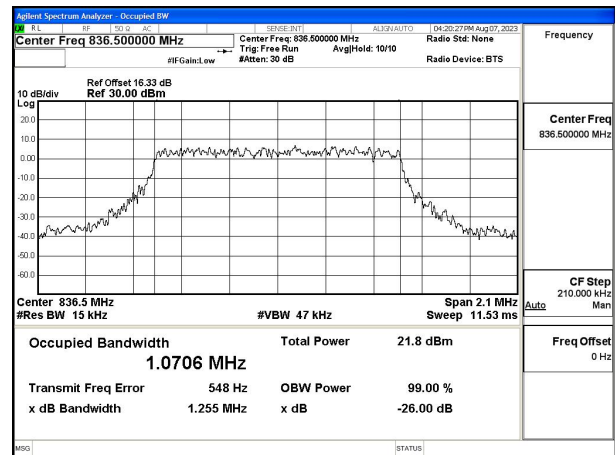


Fig.26

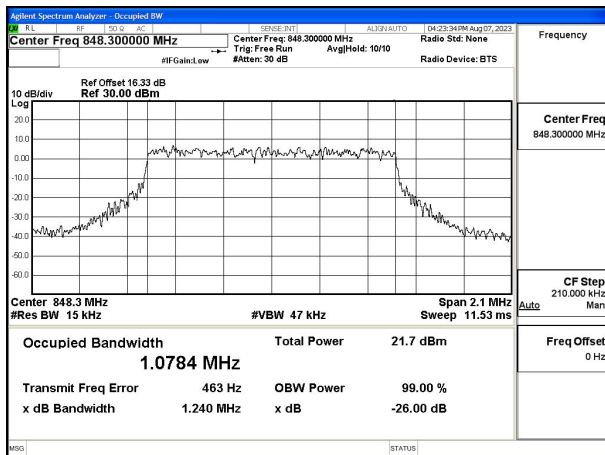


Fig.27

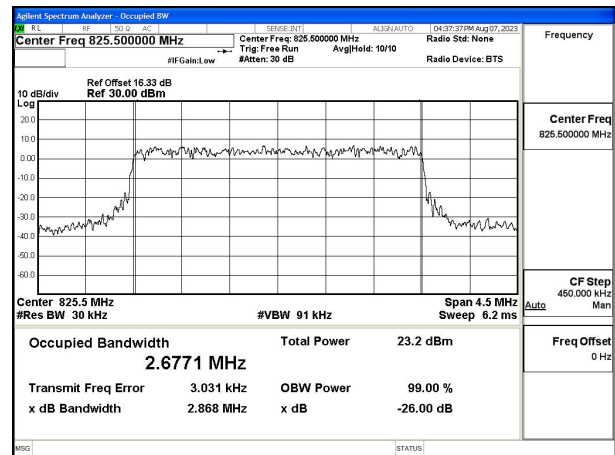


Fig.28

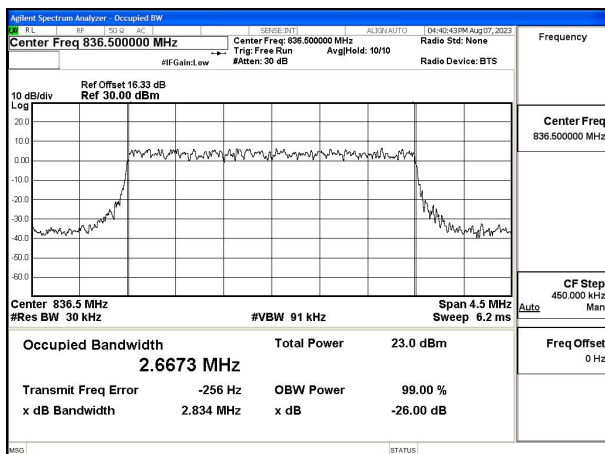


Fig.29

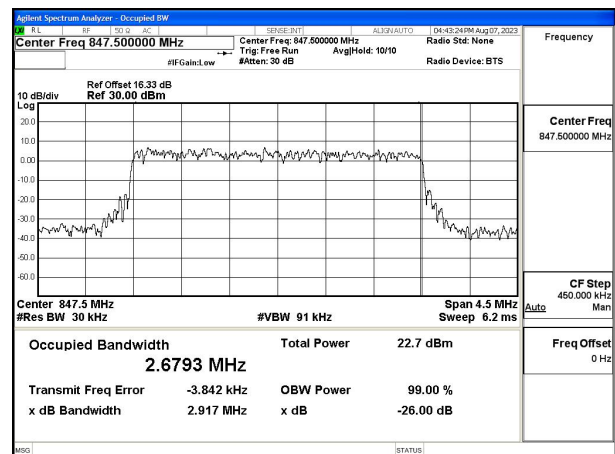


Fig.30

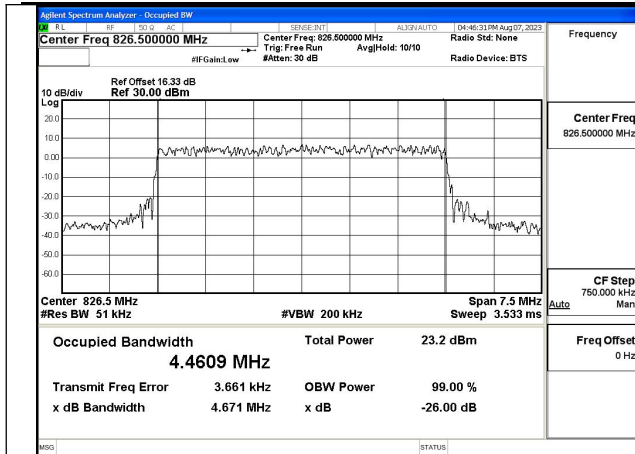


Fig.31

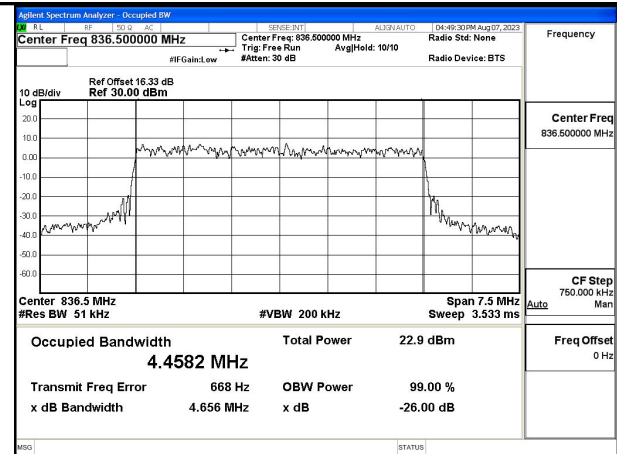


Fig.32

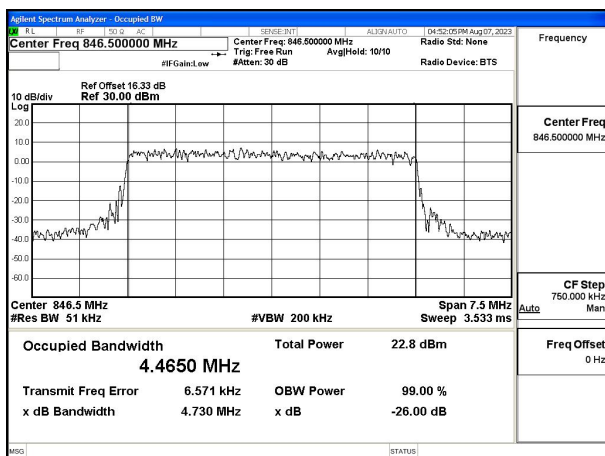


Fig.33

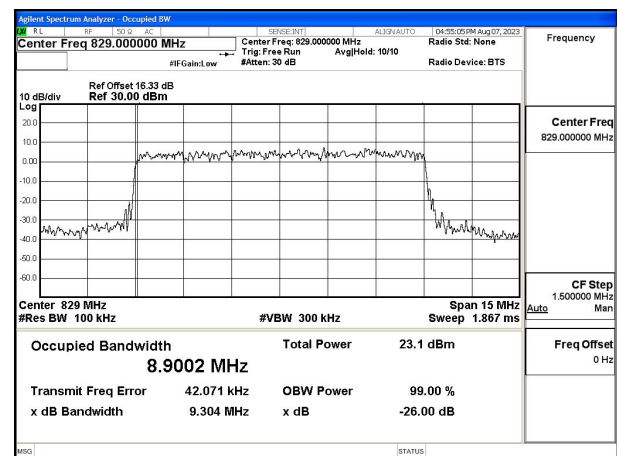


Fig.34

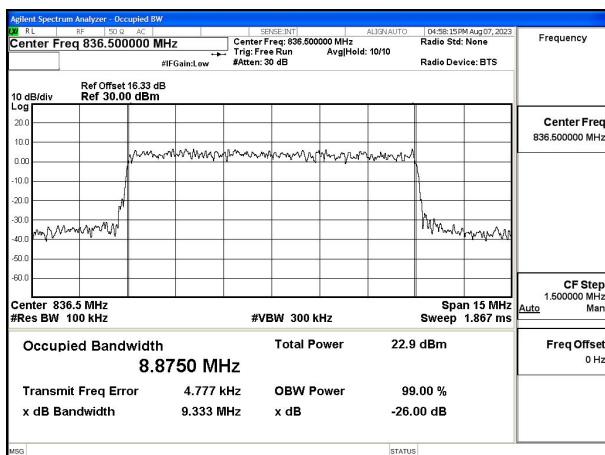


Fig.35

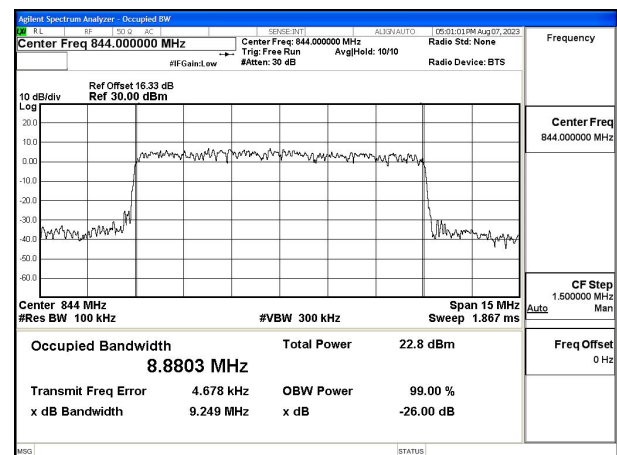


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.257	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.251	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.255	Fig.3
5	QPSK	825.5	20415	3	15	0	2.916	Fig.4
5	QPSK	836.5	20525	3	15	0	2.884	Fig.5
5	QPSK	847.5	20635	3	15	0	2.914	Fig.6
5	QPSK	826.5	20425	5	25	0	4.943	Fig.7
5	QPSK	836.5	20525	5	25	0	4.773	Fig.8
5	QPSK	846.5	20625	5	25	0	4.766	Fig.9
5	QPSK	829	20450	10	50	0	9.263	Fig.10
5	QPSK	836.5	20525	10	50	0	9.344	Fig.11
5	QPSK	844	20600	10	50	0	9.267	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	1.230	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.253	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.241	Fig.15
5	16QAM	825.5	20415	3	15	0	2.919	Fig.16
5	16QAM	836.5	20525	3	15	0	2.832	Fig.17
5	16QAM	847.5	20635	3	15	0	2.873	Fig.18
5	16QAM	826.5	20425	5	25	0	4.762	Fig.19
5	16QAM	836.5	20525	5	25	0	4.890	Fig.20
5	16QAM	846.5	20625	5	25	0	4.731	Fig.21
5	16QAM	829	20450	10	50	0	9.511	Fig.22
5	16QAM	836.5	20525	10	50	0	9.321	Fig.23
5	16QAM	844	20600	10	50	0	9.325	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	1.265	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.255	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.240	Fig.27
5	64QAM	825.5	20415	3	15	0	2.868	Fig.28
5	64QAM	836.5	20525	3	15	0	2.834	Fig.29
5	64QAM	847.5	20635	3	15	0	2.917	Fig.30
5	64QAM	826.5	20425	5	25	0	4.671	Fig.31
5	64QAM	836.5	20525	5	25	0	4.656	Fig.32
5	64QAM	846.5	20625	5	25	0	4.730	Fig.33
5	64QAM	829	20450	10	50	0	9.304	Fig.34
5	64QAM	836.5	20525	10	50	0	9.333	Fig.35
5	64QAM	844	20600	10	50	0	9.249	Fig.36

Test Mode: QPSK

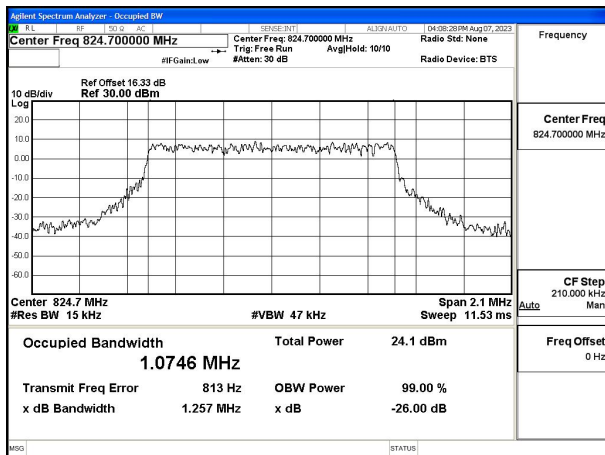


Fig.1

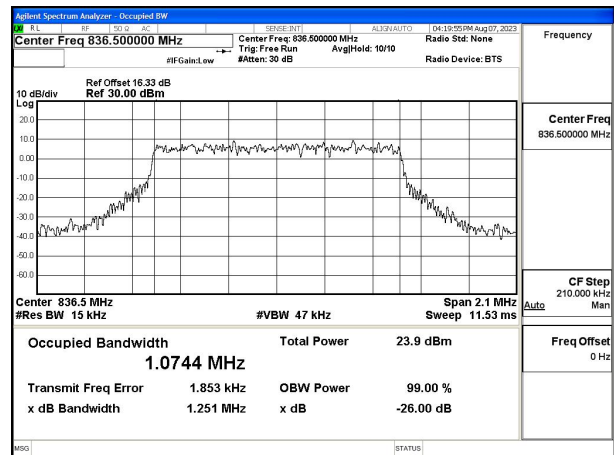


Fig.2

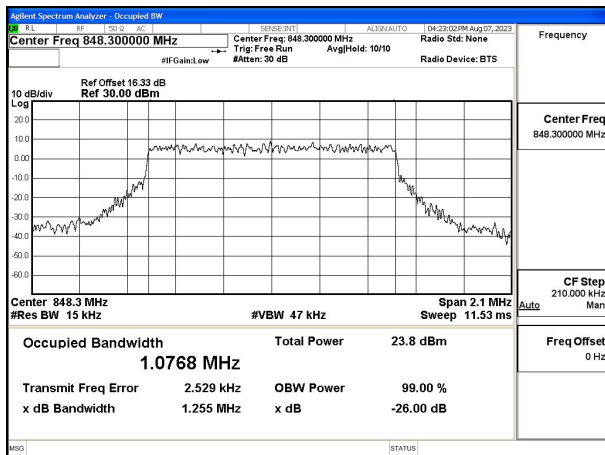


Fig.3

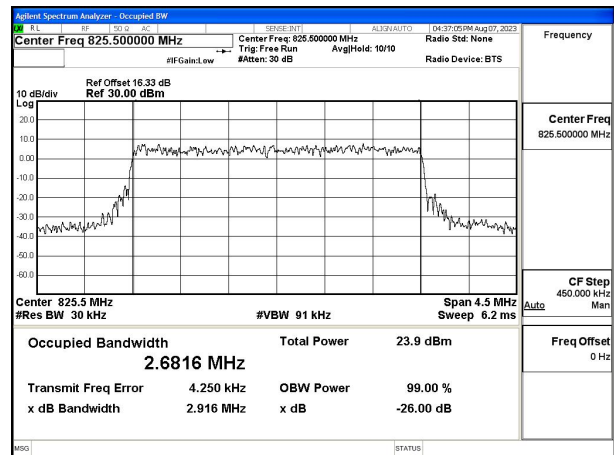


Fig.4

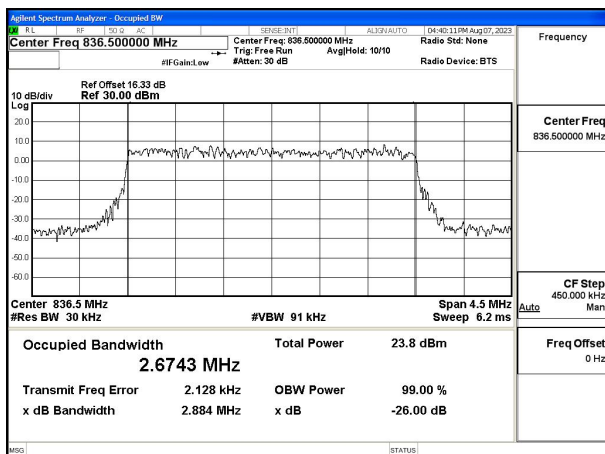


Fig.5

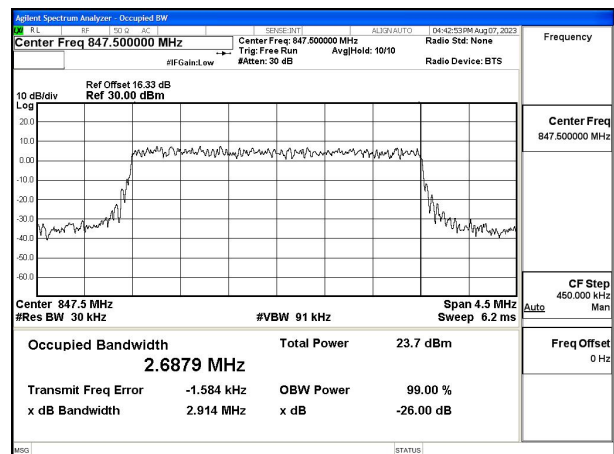


Fig.6