

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	23.12
QPSK	824.7	20407	1.4	1	3	23.21
QPSK	824.7	20407	1.4	1	5	23.18
QPSK	824.7	20407	1.4	3	0	22.73
QPSK	824.7	20407	1.4	3	1	23.26
QPSK	824.7	20407	1.4	3	3	23.22
QPSK	824.7	20407	1.4	6	0	22.26
QPSK	836.5	20525	1.4	1	0	23.16
QPSK	836.5	20525	1.4	1	3	23.24
QPSK	836.5	20525	1.4	1	5	23.18
QPSK	836.5	20525	1.4	3	0	23.30
QPSK	836.5	20525	1.4	3	1	23.38
QPSK	836.5	20525	1.4	3	3	23.34
QPSK	836.5	20525	1.4	6	0	22.25
QPSK	848.3	20643	1.4	1	0	23.28
QPSK	848.3	20643	1.4	1	3	23.39
QPSK	848.3	20643	1.4	1	5	23.41
QPSK	848.3	20643	1.4	3	0	23.32
QPSK	848.3	20643	1.4	3	1	23.48
QPSK	848.3	20643	1.4	3	3	23.40
QPSK	848.3	20643	1.4	6	0	22.41

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.96
16QAM	824.7	20407	1.4	1	3	22.23
16QAM	824.7	20407	1.4	1	5	22.43
16QAM	824.7	20407	1.4	3	0	22.50
16QAM	824.7	20407	1.4	3	1	22.21
16QAM	824.7	20407	1.4	3	3	22.28
16QAM	824.7	20407	1.4	6	0	21.44
16QAM	836.5	20525	1.4	1	0	22.64
16QAM	836.5	20525	1.4	1	3	22.72
16QAM	836.5	20525	1.4	1	5	22.71
16QAM	836.5	20525	1.4	3	0	22.41
16QAM	836.5	20525	1.4	3	1	22.42
16QAM	836.5	20525	1.4	3	3	22.47
16QAM	836.5	20525	1.4	6	0	21.38
16QAM	848.3	20643	1.4	1	0	22.69
16QAM	848.3	20643	1.4	1	3	22.97
16QAM	848.3	20643	1.4	1	5	22.57
16QAM	848.3	20643	1.4	3	0	22.13
16QAM	848.3	20643	1.4	3	1	22.56
16QAM	848.3	20643	1.4	3	3	22.36
16QAM	848.3	20643	1.4	6	0	21.53
64QAM	824.7	20407	1.4	1	0	22.37
64QAM	824.7	20407	1.4	1	3	22.37
64QAM	824.7	20407	1.4	1	5	22.43
64QAM	824.7	20407	1.4	3	0	22.22
64QAM	824.7	20407	1.4	3	1	22.36
64QAM	824.7	20407	1.4	3	3	22.42
64QAM	824.7	20407	1.4	6	0	21.24
64QAM	836.5	20525	1.4	1	0	22.32
64QAM	836.5	20525	1.4	1	3	22.14
64QAM	836.5	20525	1.4	1	5	22.28
64QAM	836.5	20525	1.4	3	0	21.95
64QAM	836.5	20525	1.4	3	1	22.47
64QAM	836.5	20525	1.4	3	3	22.27
64QAM	836.5	20525	1.4	6	0	21.23
64QAM	848.3	20643	1.4	1	0	23.09
64QAM	848.3	20643	1.4	1	3	22.59
64QAM	848.3	20643	1.4	1	5	22.49
64QAM	848.3	20643	1.4	3	0	22.54
64QAM	848.3	20643	1.4	3	1	22.41
64QAM	848.3	20643	1.4	3	3	22.57
64QAM	848.3	20643	1.4	6	0	21.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.13
QPSK	825.5	20415	3	1	8	23.38
QPSK	825.5	20415	3	1	14	23.27
QPSK	825.5	20415	3	8	0	22.30
QPSK	825.5	20415	3	8	4	22.31
QPSK	825.5	20415	3	8	7	22.28
QPSK	825.5	20415	3	15	0	22.17
QPSK	836.5	20525	3	1	0	23.20
QPSK	836.5	20525	3	1	8	23.36
QPSK	836.5	20525	3	1	14	23.26
QPSK	836.5	20525	3	8	0	22.29
QPSK	836.5	20525	3	8	4	22.31
QPSK	836.5	20525	3	8	7	22.36
QPSK	836.5	20525	3	15	0	22.34
QPSK	847.5	20635	3	1	0	23.16
QPSK	847.5	20635	3	1	8	23.36
QPSK	847.5	20635	3	1	14	23.08
QPSK	847.5	20635	3	8	0	22.29
QPSK	847.5	20635	3	8	4	22.45
QPSK	847.5	20635	3	8	7	22.41
QPSK	847.5	20635	3	15	0	22.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.29
16QAM	825.5	20415	3	1	8	22.74
16QAM	825.5	20415	3	1	14	22.48
16QAM	825.5	20415	3	8	0	21.24
16QAM	825.5	20415	3	8	4	21.45
16QAM	825.5	20415	3	8	7	21.35
16QAM	825.5	20415	3	15	0	21.31
16QAM	836.5	20525	3	1	0	23.03
16QAM	836.5	20525	3	1	8	22.67
16QAM	836.5	20525	3	1	14	22.74
16QAM	836.5	20525	3	8	0	21.43
16QAM	836.5	20525	3	8	4	21.44
16QAM	836.5	20525	3	8	7	21.34
16QAM	836.5	20525	3	15	0	21.22
16QAM	847.5	20635	3	1	0	23.07
16QAM	847.5	20635	3	1	8	22.89
16QAM	847.5	20635	3	1	14	22.62
16QAM	847.5	20635	3	8	0	21.42
16QAM	847.5	20635	3	8	4	21.65
16QAM	847.5	20635	3	8	7	21.44
16QAM	847.5	20635	3	15	0	21.29
64QAM	825.5	20415	3	1	0	22.53
64QAM	825.5	20415	3	1	8	22.57
64QAM	825.5	20415	3	1	14	22.05
64QAM	825.5	20415	3	8	0	21.31
64QAM	825.5	20415	3	8	4	21.30
64QAM	825.5	20415	3	8	7	21.38
64QAM	825.5	20415	3	15	0	21.22
64QAM	836.5	20525	3	1	0	22.40
64QAM	836.5	20525	3	1	8	22.70
64QAM	836.5	20525	3	1	14	22.73
64QAM	836.5	20525	3	8	0	21.29
64QAM	836.5	20525	3	8	4	21.29
64QAM	836.5	20525	3	8	7	21.24
64QAM	836.5	20525	3	15	0	21.21
64QAM	847.5	20635	3	1	0	21.98
64QAM	847.5	20635	3	1	8	22.32
64QAM	847.5	20635	3	1	14	22.18
64QAM	847.5	20635	3	8	0	21.32
64QAM	847.5	20635	3	8	4	21.39
64QAM	847.5	20635	3	8	7	21.48
64QAM	847.5	20635	3	15	0	21.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.01
QPSK	826.5	20425	5	1	12	23.23
QPSK	826.5	20425	5	1	24	23.10
QPSK	826.5	20425	5	12	0	22.18
QPSK	826.5	20425	5	12	7	22.32
QPSK	826.5	20425	5	12	13	22.29
QPSK	826.5	20425	5	25	0	22.27
QPSK	836.5	20525	5	1	0	23.22
QPSK	836.5	20525	5	1	12	23.72
QPSK	836.5	20525	5	1	24	23.01
QPSK	836.5	20525	5	12	0	22.26
QPSK	836.5	20525	5	12	7	22.38
QPSK	836.5	20525	5	12	13	22.34
QPSK	836.5	20525	5	25	0	22.20
QPSK	846.5	20625	5	1	0	23.49
QPSK	846.5	20625	5	1	12	23.52
QPSK	846.5	20625	5	1	24	23.25
QPSK	846.5	20625	5	12	0	22.29
QPSK	846.5	20625	5	12	7	22.35
QPSK	846.5	20625	5	12	13	22.37
QPSK	846.5	20625	5	25	0	22.38

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.40
16QAM	826.5	20425	5	1	12	22.44
16QAM	826.5	20425	5	1	24	22.46
16QAM	826.5	20425	5	12	0	21.17
16QAM	826.5	20425	5	12	7	21.38
16QAM	826.5	20425	5	12	13	21.34
16QAM	826.5	20425	5	25	0	21.32
16QAM	836.5	20525	5	1	0	22.66
16QAM	836.5	20525	5	1	12	22.63
16QAM	836.5	20525	5	1	24	22.66
16QAM	836.5	20525	5	12	0	21.24
16QAM	836.5	20525	5	12	7	21.37
16QAM	836.5	20525	5	12	13	21.51
16QAM	836.5	20525	5	25	0	21.28
16QAM	846.5	20625	5	1	0	22.73
16QAM	846.5	20625	5	1	12	22.80
16QAM	846.5	20625	5	1	24	22.38
16QAM	846.5	20625	5	12	0	21.33
16QAM	846.5	20625	5	12	7	21.33
16QAM	846.5	20625	5	12	13	21.40
16QAM	846.5	20625	5	25	0	21.53
64QAM	826.5	20425	5	1	0	22.20
64QAM	826.5	20425	5	1	12	22.24
64QAM	826.5	20425	5	1	24	22.07
64QAM	826.5	20425	5	12	0	21.19
64QAM	826.5	20425	5	12	7	21.24
64QAM	826.5	20425	5	12	13	21.40
64QAM	826.5	20425	5	25	0	21.25
64QAM	836.5	20525	5	1	0	22.27
64QAM	836.5	20525	5	1	12	22.37
64QAM	836.5	20525	5	1	24	22.54
64QAM	836.5	20525	5	12	0	21.28
64QAM	836.5	20525	5	12	7	21.51
64QAM	836.5	20525	5	12	13	21.37
64QAM	836.5	20525	5	25	0	21.24
64QAM	846.5	20625	5	1	0	22.67
64QAM	846.5	20625	5	1	12	22.16
64QAM	846.5	20625	5	1	24	22.36
64QAM	846.5	20625	5	12	0	21.39
64QAM	846.5	20625	5	12	7	21.43
64QAM	846.5	20625	5	12	13	21.54
64QAM	846.5	20625	5	25	0	21.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.28
QPSK	829	20450	10	1	25	23.26
QPSK	829	20450	10	1	49	23.10
QPSK	829	20450	10	25	0	22.25
QPSK	829	20450	10	25	12	22.29
QPSK	829	20450	10	25	25	22.24
QPSK	829	20450	10	50	0	22.33
QPSK	836.5	20525	10	1	0	23.11
QPSK	836.5	20525	10	1	25	23.16
QPSK	836.5	20525	10	1	49	23.19
QPSK	836.5	20525	10	25	0	22.27
QPSK	836.5	20525	10	25	12	22.19
QPSK	836.5	20525	10	25	25	22.37
QPSK	836.5	20525	10	50	0	22.19
QPSK	844	20600	10	1	0	23.35
QPSK	844	20600	10	1	25	23.30
QPSK	844	20600	10	1	49	23.23
QPSK	844	20600	10	25	0	22.17
QPSK	844	20600	10	25	12	22.32
QPSK	844	20600	10	25	25	22.35
QPSK	844	20600	10	50	0	22.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.76
16QAM	829	20450	10	1	25	22.98
16QAM	829	20450	10	1	49	22.52
16QAM	829	20450	10	25	0	21.28
16QAM	829	20450	10	25	12	21.36
16QAM	829	20450	10	25	25	21.26
16QAM	829	20450	10	50	0	21.33
16QAM	836.5	20525	10	1	0	22.69
16QAM	836.5	20525	10	1	25	21.90
16QAM	836.5	20525	10	1	49	22.85
16QAM	836.5	20525	10	25	0	21.38
16QAM	836.5	20525	10	25	12	21.18
16QAM	836.5	20525	10	25	25	21.37
16QAM	836.5	20525	10	50	0	21.22
16QAM	844	20600	10	1	0	22.69
16QAM	844	20600	10	1	25	22.69
16QAM	844	20600	10	1	49	22.68
16QAM	844	20600	10	25	0	21.33
16QAM	844	20600	10	25	12	21.48
16QAM	844	20600	10	25	25	21.40
16QAM	844	20600	10	50	0	21.46
64QAM	829	20450	10	1	0	22.53
64QAM	829	20450	10	1	25	22.24
64QAM	829	20450	10	1	49	22.46
64QAM	829	20450	10	25	0	21.25
64QAM	829	20450	10	25	12	21.32
64QAM	829	20450	10	25	25	21.25
64QAM	829	20450	10	50	0	21.26
64QAM	836.5	20525	10	1	0	22.26
64QAM	836.5	20525	10	1	25	22.16
64QAM	836.5	20525	10	1	49	22.30
64QAM	836.5	20525	10	25	0	21.32
64QAM	836.5	20525	10	25	12	21.33
64QAM	836.5	20525	10	25	25	21.35
64QAM	836.5	20525	10	50	0	21.32
64QAM	844	20600	10	1	0	22.60
64QAM	844	20600	10	1	25	22.17
64QAM	844	20600	10	1	49	22.01
64QAM	844	20600	10	25	0	21.27
64QAM	844	20600	10	25	12	21.53
64QAM	844	20600	10	25	25	21.31
64QAM	844	20600	10	50	0	21.35

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	1.079	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.069	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.073	Fig.3
5	QPSK	825.5	20415	3	15	0	2.682	Fig.4
5	QPSK	836.5	20525	3	15	0	2.681	Fig.5
5	QPSK	847.5	20635	3	15	0	2.680	Fig.6
5	QPSK	826.5	20425	5	25	0	4.463	Fig.7
5	QPSK	836.5	20525	5	25	0	4.448	Fig.8
5	QPSK	846.5	20625	5	25	0	4.464	Fig.9
5	QPSK	829	20450	10	50	0	8.902	Fig.10
5	QPSK	836.5	20525	10	50	0	8.952	Fig.11
5	QPSK	844	20600	10	50	0	8.920	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	1.074	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.077	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.082	Fig.15
5	16QAM	825.5	20415	3	15	0	2.677	Fig.16
5	16QAM	836.5	20525	3	15	0	2.682	Fig.17
5	16QAM	847.5	20635	3	15	0	2.666	Fig.18
5	16QAM	826.5	20425	5	25	0	4.468	Fig.19
5	16QAM	836.5	20525	5	25	0	4.457	Fig.20
5	16QAM	846.5	20625	5	25	0	4.473	Fig.21
5	16QAM	829	20450	10	50	0	8.903	Fig.22
5	16QAM	836.5	20525	10	50	0	8.891	Fig.23
5	16QAM	844	20600	10	50	0	8.892	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	1.077	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.080	Fig.27
5	64QAM	825.5	20415	3	15	0	2.676	Fig.28
5	64QAM	836.5	20525	3	15	0	2.689	Fig.29
5	64QAM	847.5	20635	3	15	0	2.681	Fig.30
5	64QAM	826.5	20425	5	25	0	4.461	Fig.31
5	64QAM	836.5	20525	5	25	0	4.460	Fig.32
5	64QAM	846.5	20625	5	25	0	4.459	Fig.33
5	64QAM	829	20450	10	50	0	8.938	Fig.34
5	64QAM	836.5	20525	10	50	0	8.923	Fig.35
5	64QAM	844	20600	10	50	0	8.931	Fig.36

Test Mode: QPSK

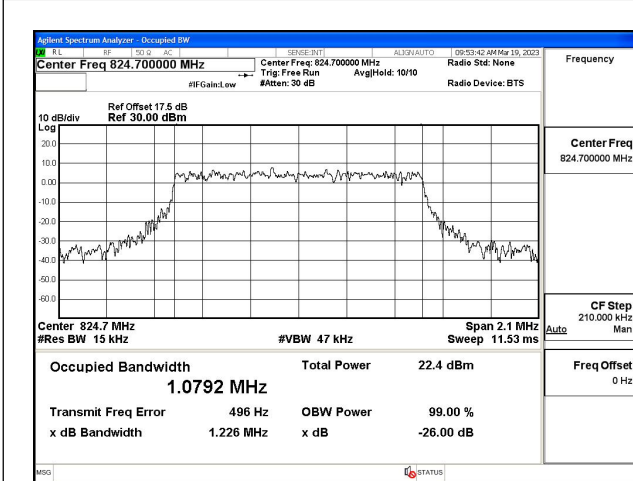


Fig.1

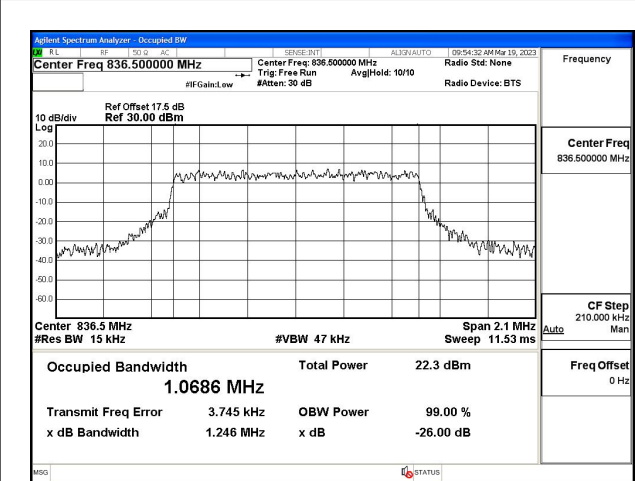


Fig.2

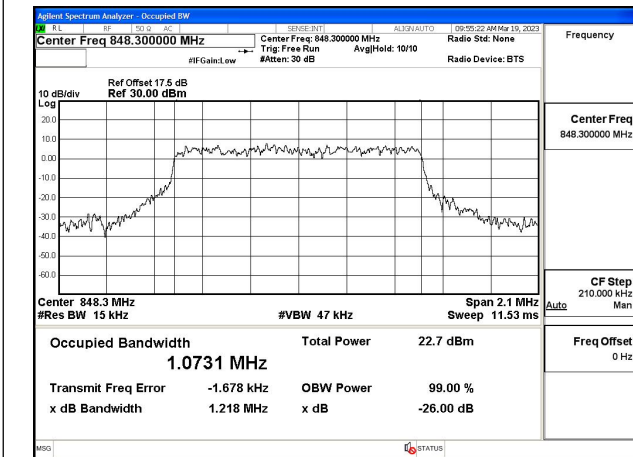


Fig.3

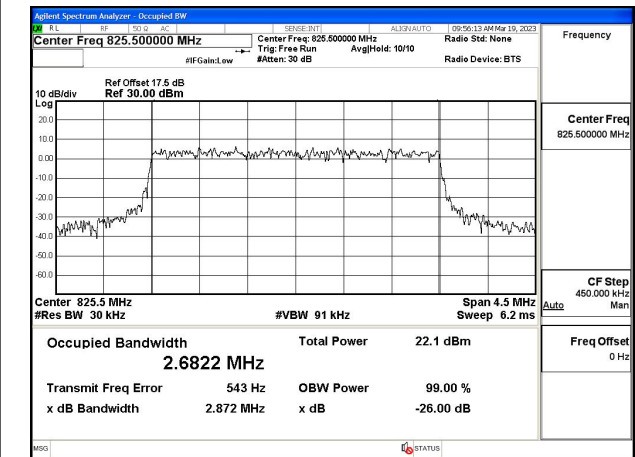


Fig.4

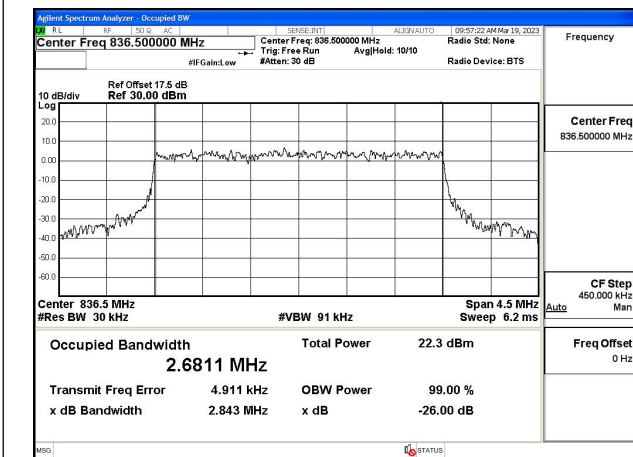


Fig.5

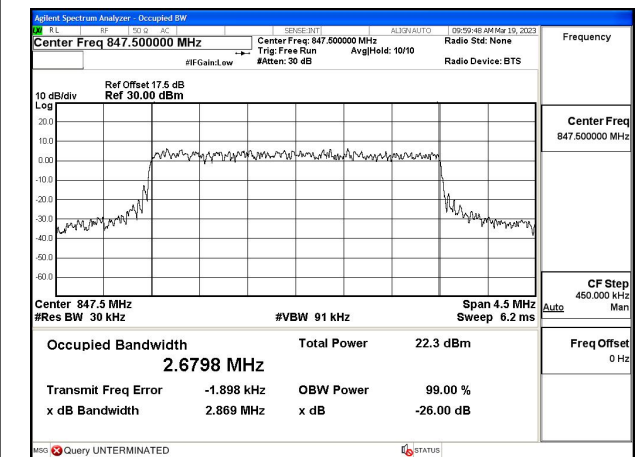


Fig.6

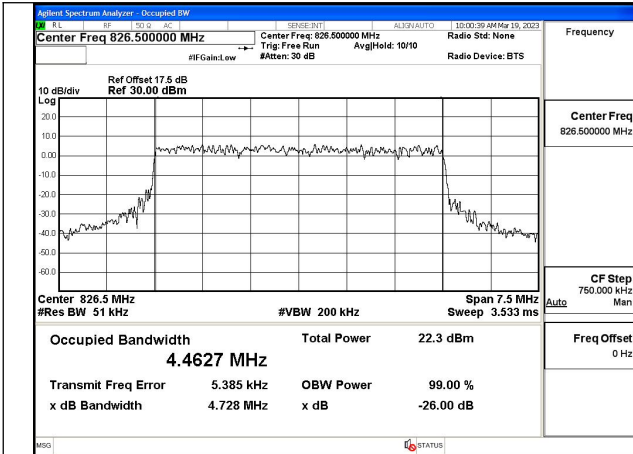


Fig.7

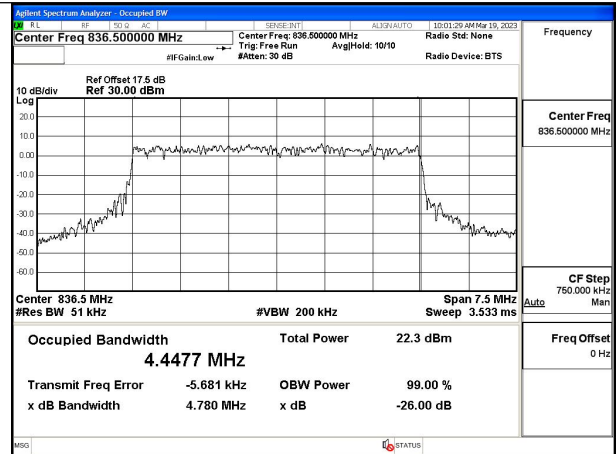


Fig.8

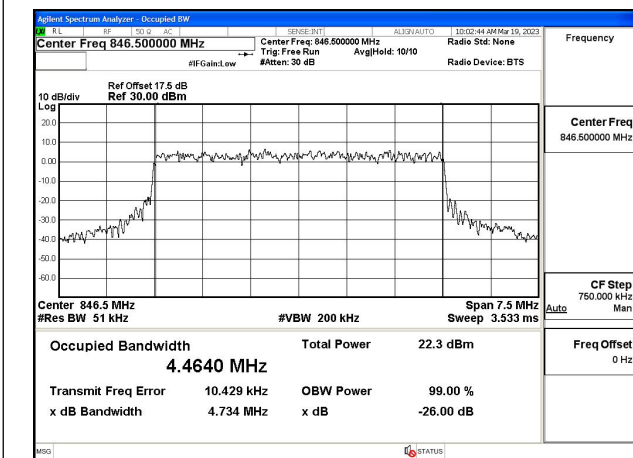


Fig.9

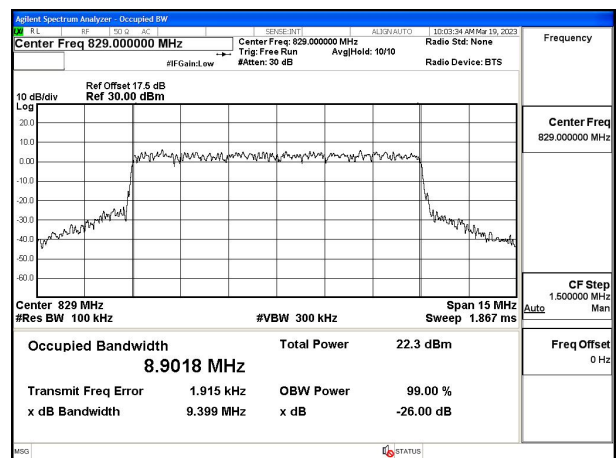


Fig.10

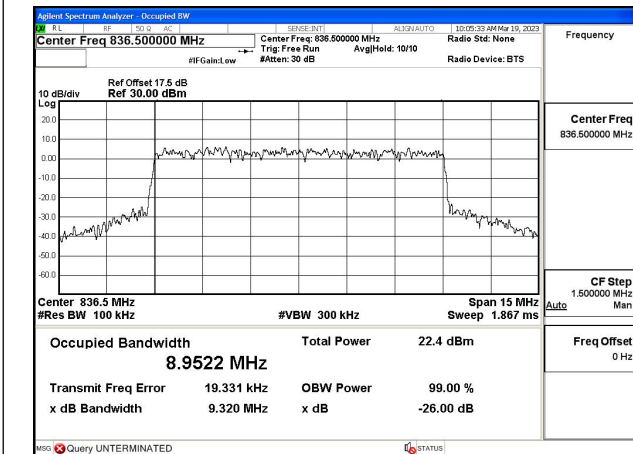


Fig.11

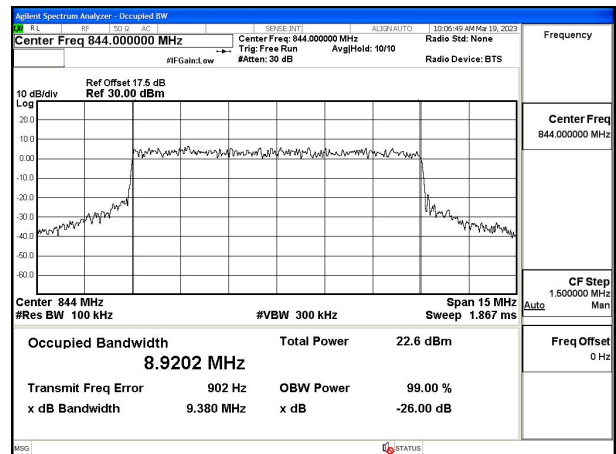


Fig.12

Test Mode: 16QAM

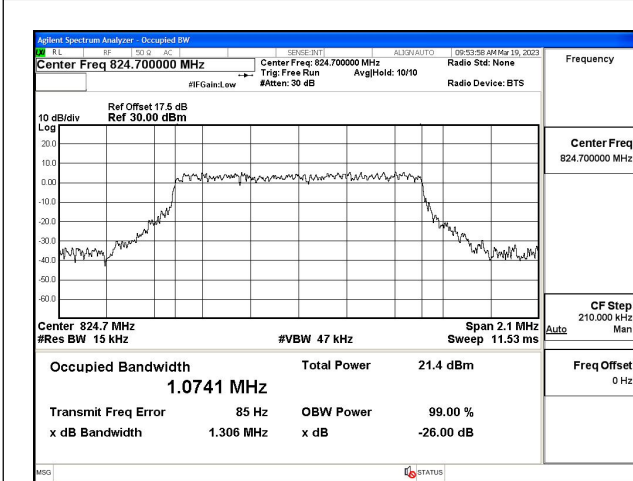


Fig.13

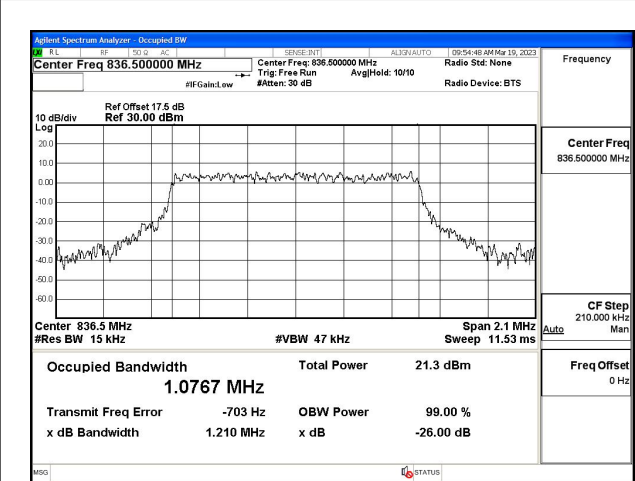


Fig.14

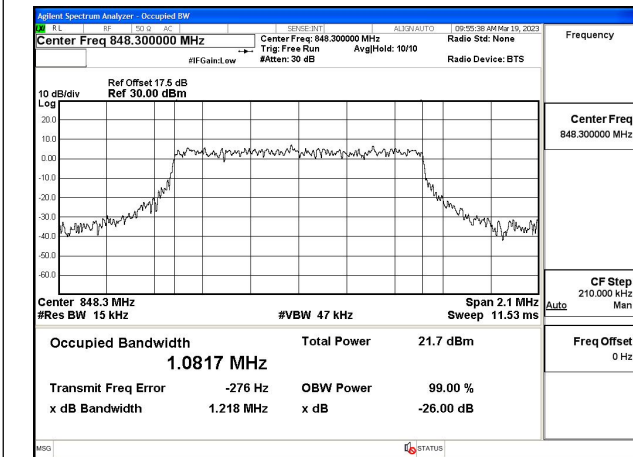


Fig.15

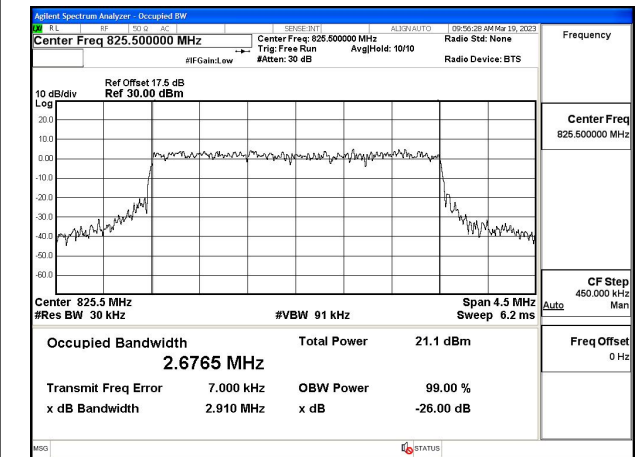


Fig.16

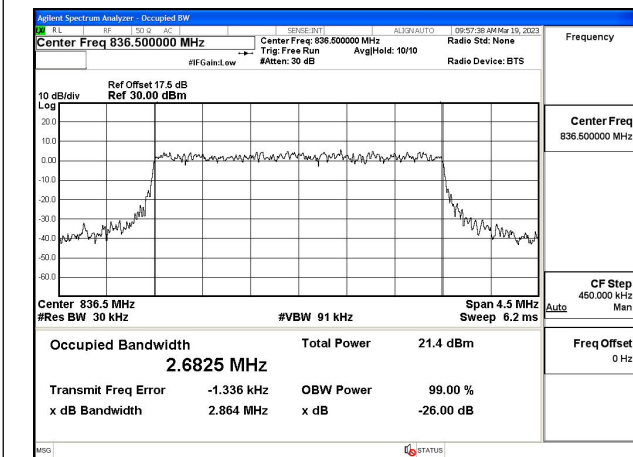


Fig.17

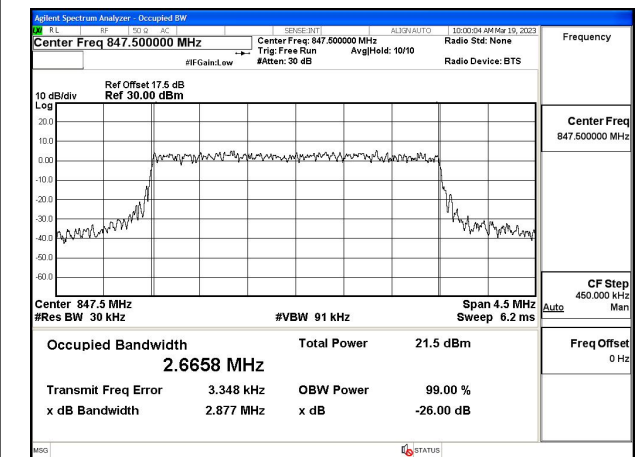


Fig.18

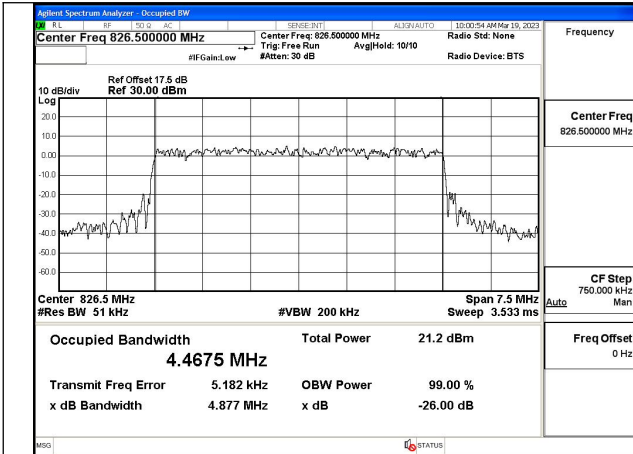


Fig.19

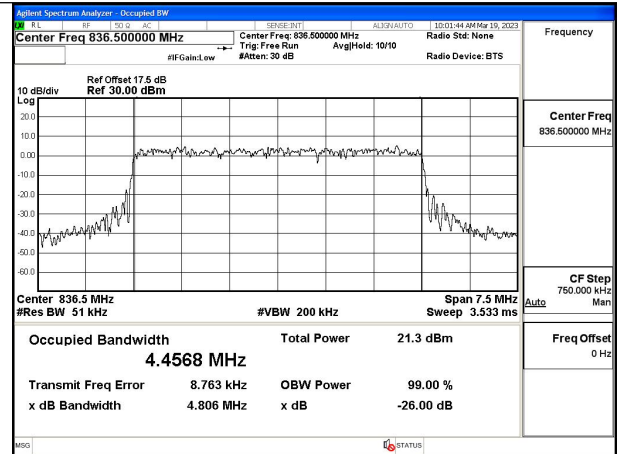


Fig.20

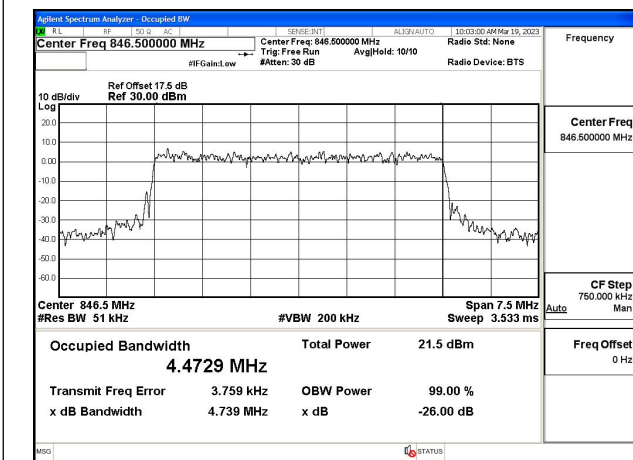


Fig.21

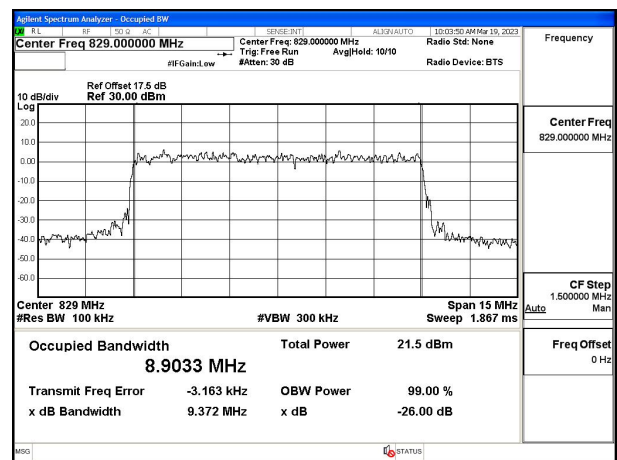


Fig.22

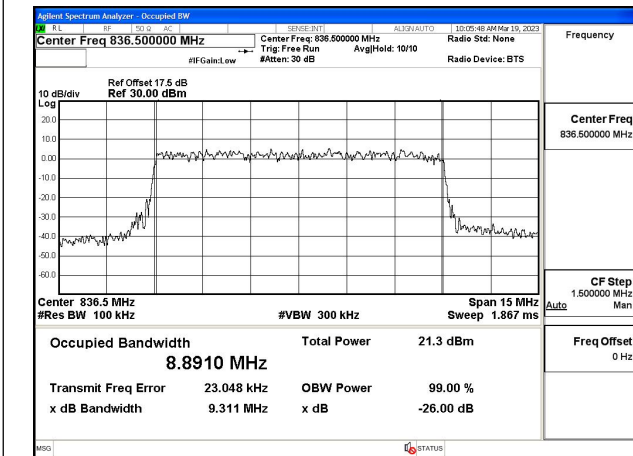


Fig.23

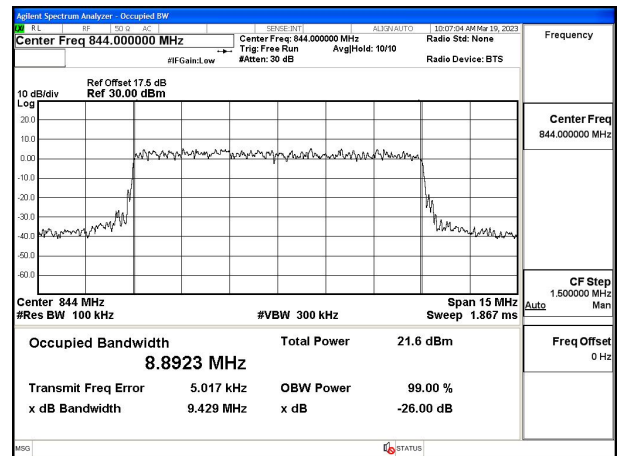


Fig.24

Test Mode: 64QAM

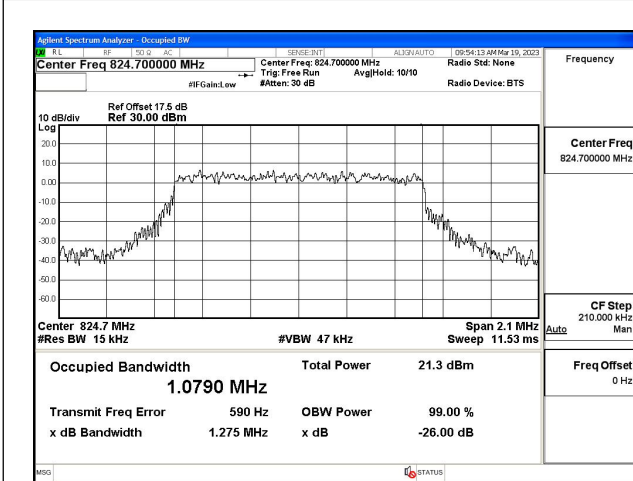


Fig.25

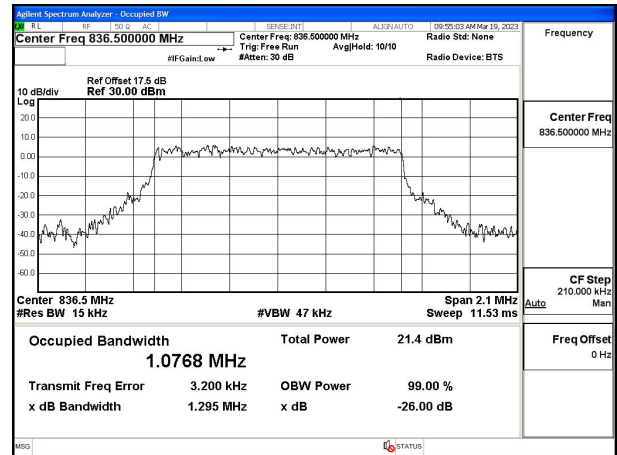


Fig.26

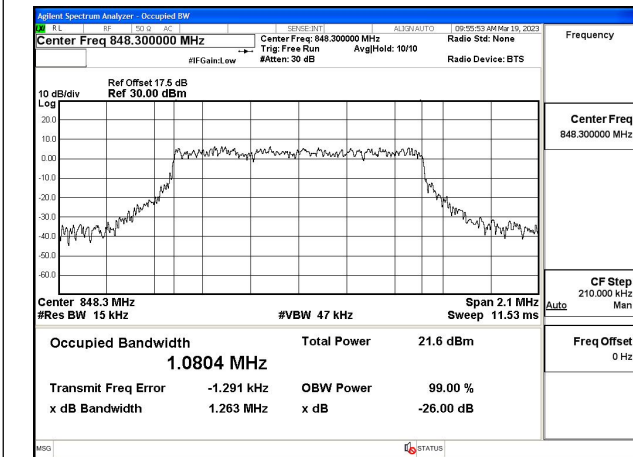


Fig.27

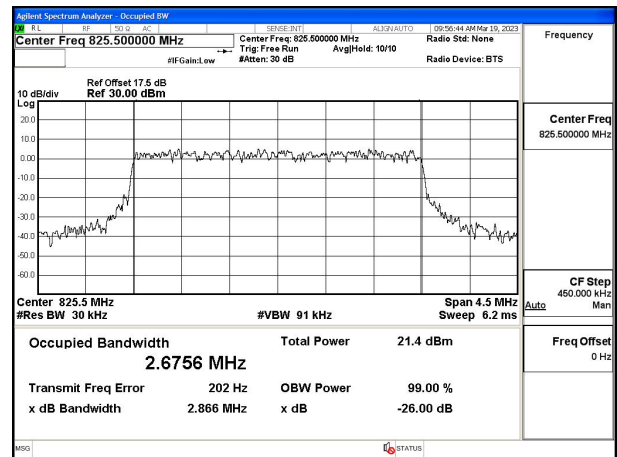


Fig.28

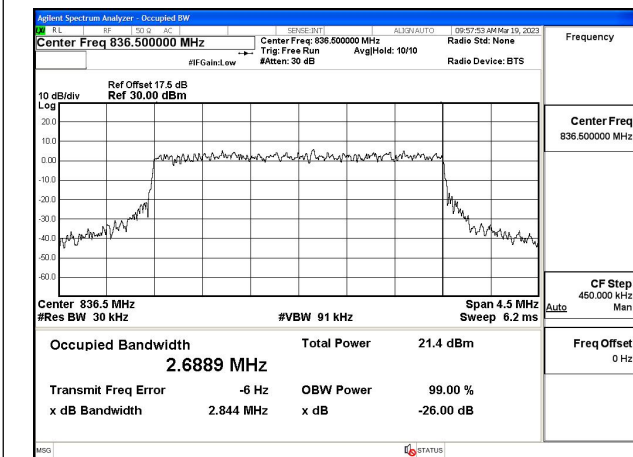


Fig.29

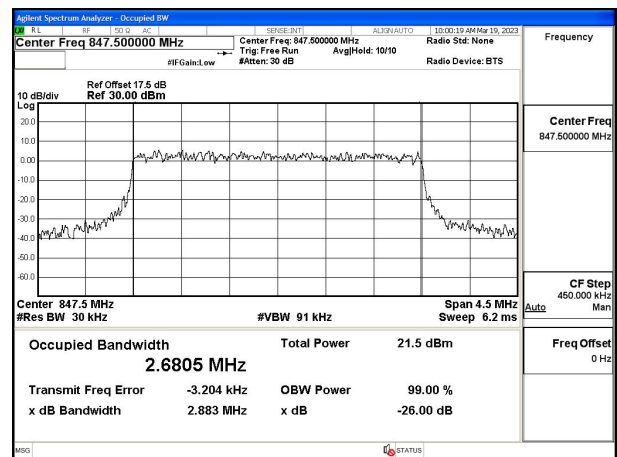


Fig.30

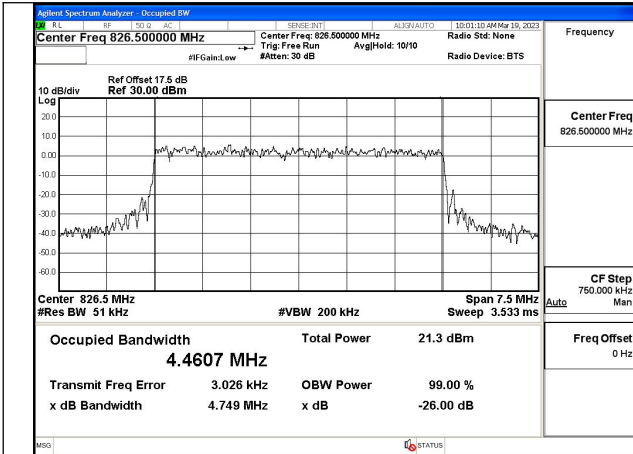


Fig.31

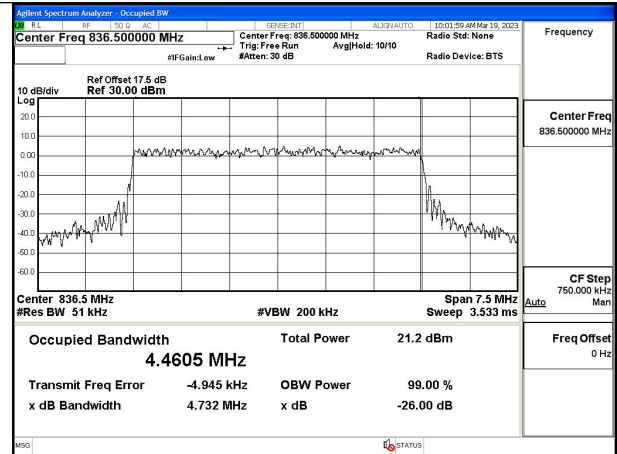


Fig.32

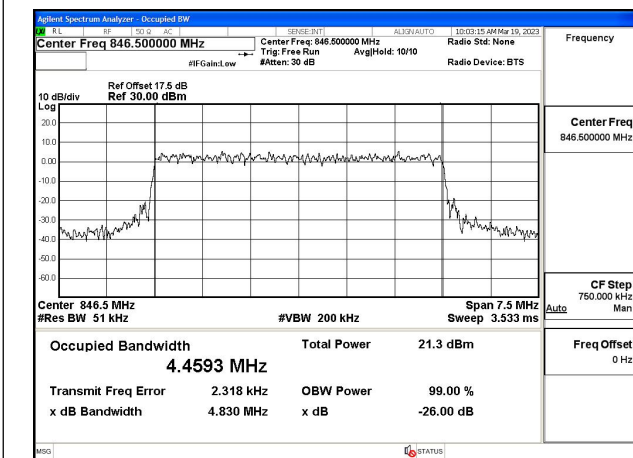


Fig.33

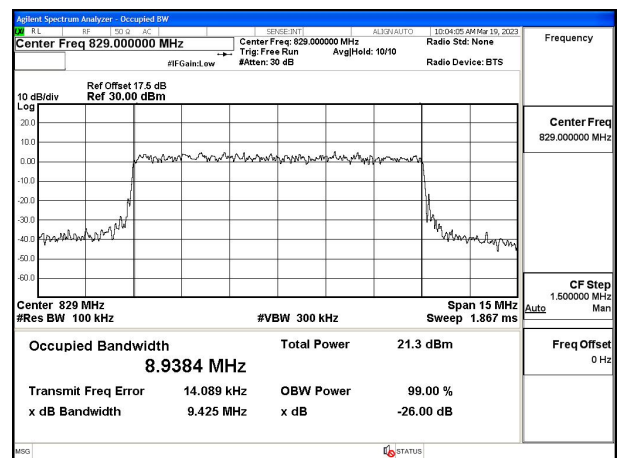


Fig.34

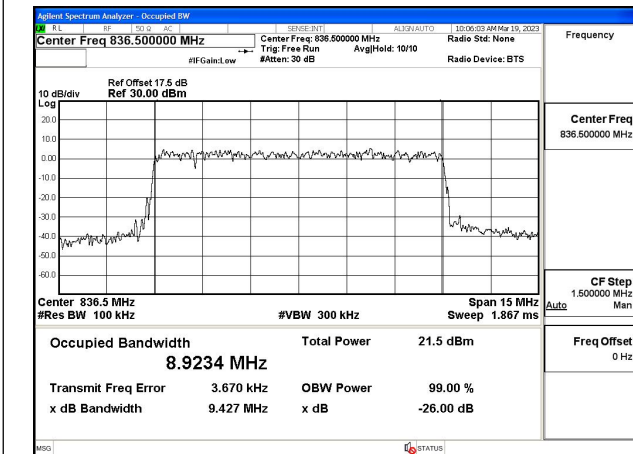


Fig.35

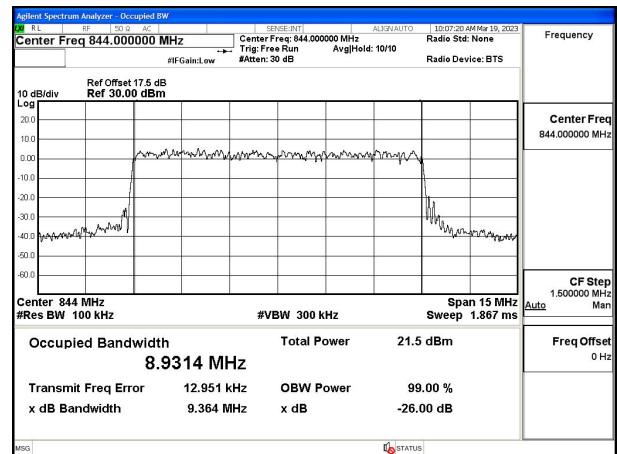


Fig.36

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	1.226	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.246	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.218	Fig.3
5	QPSK	825.5	20415	3	15	0	2.872	Fig.4
5	QPSK	836.5	20525	3	15	0	2.843	Fig.5
5	QPSK	847.5	20635	3	15	0	2.869	Fig.6
5	QPSK	826.5	20425	5	25	0	4.728	Fig.7
5	QPSK	836.5	20525	5	25	0	4.780	Fig.8
5	QPSK	846.5	20625	5	25	0	4.734	Fig.9
5	QPSK	829	20450	10	50	0	9.399	Fig.10
5	QPSK	836.5	20525	10	50	0	9.320	Fig.11
5	QPSK	844	20600	10	50	0	9.380	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	1.306	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.210	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.218	Fig.15
5	16QAM	825.5	20415	3	15	0	2.910	Fig.16
5	16QAM	836.5	20525	3	15	0	2.864	Fig.17
5	16QAM	847.5	20635	3	15	0	2.877	Fig.18
5	16QAM	826.5	20425	5	25	0	4.877	Fig.19
5	16QAM	836.5	20525	5	25	0	4.806	Fig.20
5	16QAM	846.5	20625	5	25	0	4.739	Fig.21
5	16QAM	829	20450	10	50	0	9.372	Fig.22
5	16QAM	836.5	20525	10	50	0	9.311	Fig.23
5	16QAM	844	20600	10	50	0	9.429	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	1.275	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.295	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.263	Fig.27
5	64QAM	825.5	20415	3	15	0	2.866	Fig.28
5	64QAM	836.5	20525	3	15	0	2.844	Fig.29
5	64QAM	847.5	20635	3	15	0	2.883	Fig.30
5	64QAM	826.5	20425	5	25	0	4.749	Fig.31
5	64QAM	836.5	20525	5	25	0	4.732	Fig.32
5	64QAM	846.5	20625	5	25	0	4.830	Fig.33
5	64QAM	829	20450	10	50	0	9.425	Fig.34
5	64QAM	836.5	20525	10	50	0	9.427	Fig.35
5	64QAM	844	20600	10	50	0	9.364	Fig.36

Test Mode: QPSK

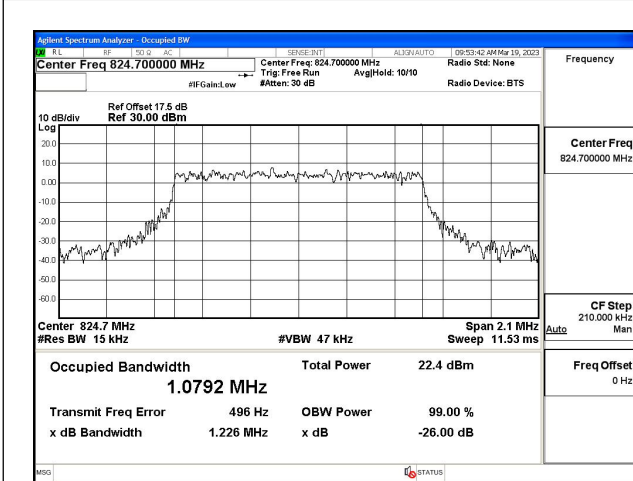


Fig.1

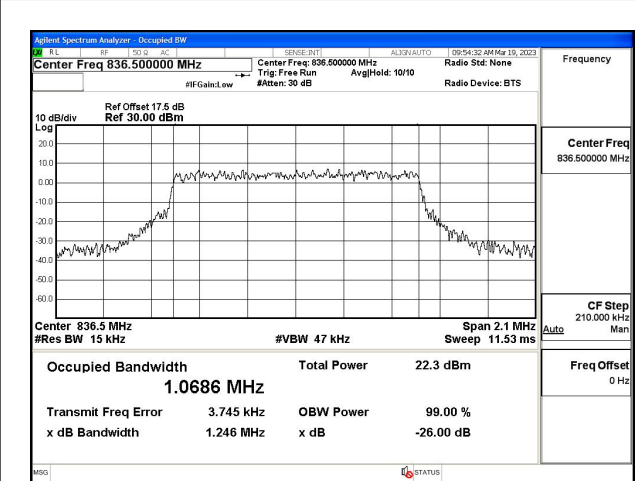


Fig.2

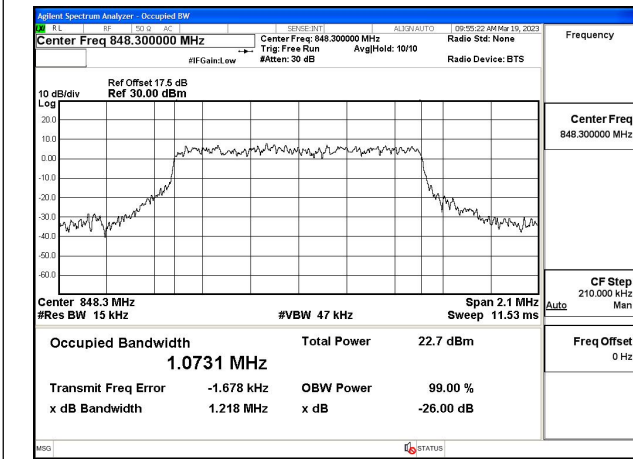


Fig.3

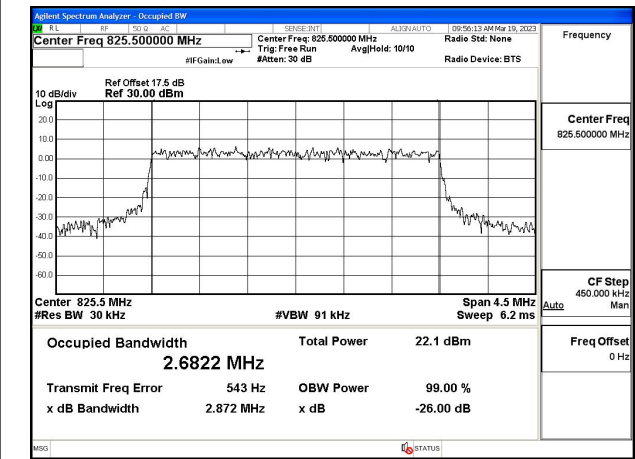


Fig.4

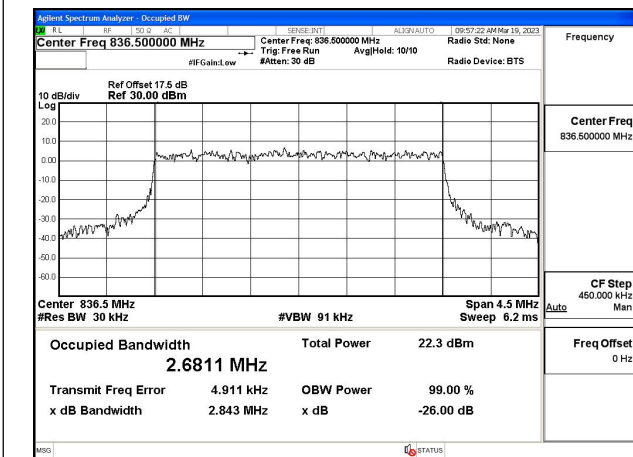


Fig.5

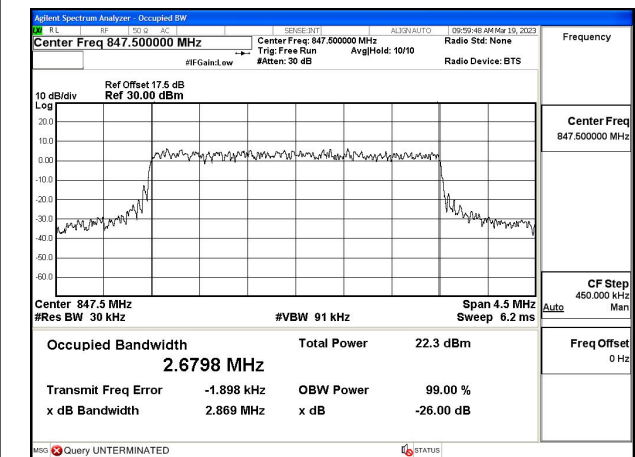


Fig.6