

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	25.86
QPSK	824.7	20407	1.4	1	3	25.95
QPSK	824.7	20407	1.4	1	5	25.91
QPSK	824.7	20407	1.4	3	0	26.03
QPSK	824.7	20407	1.4	3	1	26.14
QPSK	824.7	20407	1.4	3	3	26.03
QPSK	824.7	20407	1.4	6	0	25.18
QPSK	836.5	20525	1.4	1	0	26.01
QPSK	836.5	20525	1.4	1	3	26.00
QPSK	836.5	20525	1.4	1	5	26.03
QPSK	836.5	20525	1.4	3	0	26.10
QPSK	836.5	20525	1.4	3	1	26.12
QPSK	836.5	20525	1.4	3	3	26.01
QPSK	836.5	20525	1.4	6	0	25.14
QPSK	848.3	20643	1.4	1	0	25.98
QPSK	848.3	20643	1.4	1	3	26.04
QPSK	848.3	20643	1.4	1	5	25.93
QPSK	848.3	20643	1.4	3	0	25.91
QPSK	848.3	20643	1.4	3	1	25.88
QPSK	848.3	20643	1.4	3	3	25.79
QPSK	848.3	20643	1.4	6	0	24.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	25.52
16QAM	824.7	20407	1.4	1	3	25.41
16QAM	824.7	20407	1.4	1	5	25.67
16QAM	824.7	20407	1.4	3	0	25.34
16QAM	824.7	20407	1.4	3	1	25.49
16QAM	824.7	20407	1.4	3	3	25.46
16QAM	824.7	20407	1.4	6	0	23.96
16QAM	836.5	20525	1.4	1	0	25.08
16QAM	836.5	20525	1.4	1	3	25.50
16QAM	836.5	20525	1.4	1	5	25.61
16QAM	836.5	20525	1.4	3	0	25.43
16QAM	836.5	20525	1.4	3	1	25.47
16QAM	836.5	20525	1.4	3	3	25.25
16QAM	836.5	20525	1.4	6	0	23.71
16QAM	848.3	20643	1.4	1	0	25.62
16QAM	848.3	20643	1.4	1	3	24.70
16QAM	848.3	20643	1.4	1	5	25.43
16QAM	848.3	20643	1.4	3	0	24.97
16QAM	848.3	20643	1.4	3	1	25.22
16QAM	848.3	20643	1.4	3	3	25.28
16QAM	848.3	20643	1.4	6	0	23.58
64QAM	824.7	20407	1.4	1	0	24.76
64QAM	824.7	20407	1.4	1	3	24.97
64QAM	824.7	20407	1.4	1	5	24.48
64QAM	824.7	20407	1.4	3	0	24.02
64QAM	824.7	20407	1.4	3	1	24.20
64QAM	824.7	20407	1.4	3	3	24.40
64QAM	824.7	20407	1.4	6	0	23.05
64QAM	836.5	20525	1.4	1	0	23.95
64QAM	836.5	20525	1.4	1	3	24.02
64QAM	836.5	20525	1.4	1	5	24.08
64QAM	836.5	20525	1.4	3	0	24.05
64QAM	836.5	20525	1.4	3	1	23.89
64QAM	836.5	20525	1.4	3	3	23.95
64QAM	836.5	20525	1.4	6	0	23.07
64QAM	848.3	20643	1.4	1	0	23.87
64QAM	848.3	20643	1.4	1	3	24.00
64QAM	848.3	20643	1.4	1	5	23.75
64QAM	848.3	20643	1.4	3	0	23.71
64QAM	848.3	20643	1.4	3	1	23.91
64QAM	848.3	20643	1.4	3	3	23.58
64QAM	848.3	20643	1.4	6	0	22.78

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	26.11
QPSK	825.5	20415	3	1	8	26.04
QPSK	825.5	20415	3	1	14	26.05
QPSK	825.5	20415	3	8	0	25.00
QPSK	825.5	20415	3	8	4	25.06
QPSK	825.5	20415	3	8	7	25.13
QPSK	825.5	20415	3	15	0	25.16
QPSK	836.5	20525	3	1	0	26.11
QPSK	836.5	20525	3	1	8	26.21
QPSK	836.5	20525	3	1	14	26.09
QPSK	836.5	20525	3	8	0	24.83
QPSK	836.5	20525	3	8	4	24.99
QPSK	836.5	20525	3	8	7	24.95
QPSK	836.5	20525	3	15	0	25.14
QPSK	847.5	20635	3	1	0	25.87
QPSK	847.5	20635	3	1	8	25.81
QPSK	847.5	20635	3	1	14	25.73
QPSK	847.5	20635	3	8	0	24.88
QPSK	847.5	20635	3	8	4	24.90
QPSK	847.5	20635	3	8	7	25.01
QPSK	847.5	20635	3	15	0	24.91

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	26.11
16QAM	825.5	20415	3	1	8	26.12
16QAM	825.5	20415	3	1	14	25.55
16QAM	825.5	20415	3	8	0	24.21
16QAM	825.5	20415	3	8	4	24.28
16QAM	825.5	20415	3	8	7	24.27
16QAM	825.5	20415	3	15	0	24.20
16QAM	836.5	20525	3	1	0	25.10
16QAM	836.5	20525	3	1	8	25.45
16QAM	836.5	20525	3	1	14	25.27
16QAM	836.5	20525	3	8	0	24.24
16QAM	836.5	20525	3	8	4	24.28
16QAM	836.5	20525	3	8	7	24.31
16QAM	836.5	20525	3	15	0	24.04
16QAM	847.5	20635	3	1	0	25.36
16QAM	847.5	20635	3	1	8	25.38
16QAM	847.5	20635	3	1	14	25.53
16QAM	847.5	20635	3	8	0	24.03
16QAM	847.5	20635	3	8	4	24.09
16QAM	847.5	20635	3	8	7	23.94
16QAM	847.5	20635	3	15	0	24.10
64QAM	825.5	20415	3	1	0	24.11
64QAM	825.5	20415	3	1	8	24.01
64QAM	825.5	20415	3	1	14	23.95
64QAM	825.5	20415	3	8	0	22.96
64QAM	825.5	20415	3	8	4	23.07
64QAM	825.5	20415	3	8	7	23.14
64QAM	825.5	20415	3	15	0	23.25
64QAM	836.5	20525	3	1	0	24.70
64QAM	836.5	20525	3	1	8	24.35
64QAM	836.5	20525	3	1	14	24.19
64QAM	836.5	20525	3	8	0	23.39
64QAM	836.5	20525	3	8	4	22.97
64QAM	836.5	20525	3	8	7	22.92
64QAM	836.5	20525	3	15	0	23.20
64QAM	847.5	20635	3	1	0	24.08
64QAM	847.5	20635	3	1	8	23.52
64QAM	847.5	20635	3	1	14	23.76
64QAM	847.5	20635	3	8	0	23.30
64QAM	847.5	20635	3	8	4	23.30
64QAM	847.5	20635	3	8	7	22.39
64QAM	847.5	20635	3	15	0	23.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	25.91
QPSK	826.5	20425	5	1	12	26.12
QPSK	826.5	20425	5	1	24	26.07
QPSK	826.5	20425	5	12	0	25.01
QPSK	826.5	20425	5	12	7	25.11
QPSK	826.5	20425	5	12	13	25.17
QPSK	826.5	20425	5	25	0	25.12
QPSK	836.5	20525	5	1	0	26.07
QPSK	836.5	20525	5	1	12	26.16
QPSK	836.5	20525	5	1	24	26.10
QPSK	836.5	20525	5	12	0	25.29
QPSK	836.5	20525	5	12	7	25.15
QPSK	836.5	20525	5	12	13	25.09
QPSK	836.5	20525	5	25	0	25.14
QPSK	846.5	20625	5	1	0	26.22
QPSK	846.5	20625	5	1	12	26.18
QPSK	846.5	20625	5	1	24	26.22
QPSK	846.5	20625	5	12	0	25.00
QPSK	846.5	20625	5	12	7	24.92
QPSK	846.5	20625	5	12	13	24.96
QPSK	846.5	20625	5	25	0	25.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	25.37
16QAM	826.5	20425	5	1	12	25.94
16QAM	826.5	20425	5	1	24	25.32
16QAM	826.5	20425	5	12	0	24.14
16QAM	826.5	20425	5	12	7	24.28
16QAM	826.5	20425	5	12	13	24.20
16QAM	826.5	20425	5	25	0	24.12
16QAM	836.5	20525	5	1	0	25.44
16QAM	836.5	20525	5	1	12	25.27
16QAM	836.5	20525	5	1	24	25.85
16QAM	836.5	20525	5	12	0	24.22
16QAM	836.5	20525	5	12	7	24.26
16QAM	836.5	20525	5	12	13	24.08
16QAM	836.5	20525	5	25	0	24.47
16QAM	846.5	20625	5	1	0	25.85
16QAM	846.5	20625	5	1	12	25.66
16QAM	846.5	20625	5	1	24	25.21
16QAM	846.5	20625	5	12	0	24.10
16QAM	846.5	20625	5	12	7	24.02
16QAM	846.5	20625	5	12	13	24.01
16QAM	846.5	20625	5	25	0	24.05
64QAM	826.5	20425	5	1	0	24.21
64QAM	826.5	20425	5	1	12	24.45
64QAM	826.5	20425	5	1	24	24.09
64QAM	826.5	20425	5	12	0	23.16
64QAM	826.5	20425	5	12	7	23.44
64QAM	826.5	20425	5	12	13	23.22
64QAM	826.5	20425	5	25	0	23.13
64QAM	836.5	20525	5	1	0	24.44
64QAM	836.5	20525	5	1	12	23.73
64QAM	836.5	20525	5	1	24	24.10
64QAM	836.5	20525	5	12	0	23.63
64QAM	836.5	20525	5	12	7	23.41
64QAM	836.5	20525	5	12	13	23.36
64QAM	836.5	20525	5	25	0	23.48
64QAM	846.5	20625	5	1	0	24.35
64QAM	846.5	20625	5	1	12	24.08
64QAM	846.5	20625	5	1	24	24.16
64QAM	846.5	20625	5	12	0	22.95
64QAM	846.5	20625	5	12	7	23.37
64QAM	846.5	20625	5	12	13	23.43
64QAM	846.5	20625	5	25	0	23.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	26.38
QPSK	829	20450	10	1	25	26.28
QPSK	829	20450	10	1	49	26.45
QPSK	829	20450	10	25	0	25.23
QPSK	829	20450	10	25	12	25.10
QPSK	829	20450	10	25	25	25.08
QPSK	829	20450	10	50	0	25.03
QPSK	836.5	20525	10	1	0	26.35
QPSK	836.5	20525	10	1	25	26.40
QPSK	836.5	20525	10	1	49	26.32
QPSK	836.5	20525	10	25	0	25.07
QPSK	836.5	20525	10	25	12	25.11
QPSK	836.5	20525	10	25	25	25.10
QPSK	836.5	20525	10	50	0	25.09
QPSK	844	20600	10	1	0	26.29
QPSK	844	20600	10	1	25	26.29
QPSK	844	20600	10	1	49	26.14
QPSK	844	20600	10	25	0	25.08
QPSK	844	20600	10	25	12	24.91
QPSK	844	20600	10	25	25	24.96
QPSK	844	20600	10	50	0	24.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	25.49
16QAM	829	20450	10	1	25	25.42
16QAM	829	20450	10	1	49	25.13
16QAM	829	20450	10	25	0	24.52
16QAM	829	20450	10	25	12	24.50
16QAM	829	20450	10	25	25	24.34
16QAM	829	20450	10	50	0	24.19
16QAM	836.5	20525	10	1	0	25.43
16QAM	836.5	20525	10	1	25	25.73
16QAM	836.5	20525	10	1	49	25.75
16QAM	836.5	20525	10	25	0	24.51
16QAM	836.5	20525	10	25	12	24.55
16QAM	836.5	20525	10	25	25	24.32
16QAM	836.5	20525	10	50	0	24.13
16QAM	844	20600	10	1	0	25.78
16QAM	844	20600	10	1	25	25.02
16QAM	844	20600	10	1	49	25.13
16QAM	844	20600	10	25	0	24.22
16QAM	844	20600	10	25	12	24.24
16QAM	844	20600	10	25	25	24.18
16QAM	844	20600	10	50	0	24.07
64QAM	829	20450	10	1	0	24.90
64QAM	829	20450	10	1	25	24.28
64QAM	829	20450	10	1	49	24.29
64QAM	829	20450	10	25	0	23.15
64QAM	829	20450	10	25	12	23.37
64QAM	829	20450	10	25	25	23.21
64QAM	829	20450	10	50	0	23.31
64QAM	836.5	20525	10	1	0	24.37
64QAM	836.5	20525	10	1	25	24.23
64QAM	836.5	20525	10	1	49	23.99
64QAM	836.5	20525	10	25	0	23.50
64QAM	836.5	20525	10	25	12	23.15
64QAM	836.5	20525	10	25	25	22.94
64QAM	836.5	20525	10	50	0	23.26
64QAM	844	20600	10	1	0	24.01
64QAM	844	20600	10	1	25	24.70
64QAM	844	20600	10	1	49	24.28
64QAM	844	20600	10	25	0	23.37
64QAM	844	20600	10	25	12	22.74
64QAM	844	20600	10	25	25	23.21
64QAM	844	20600	10	50	0	23.32

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	1.08	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.08	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.08	Fig.3
5	QPSK	825.5	20415	3	15	0	2.68	Fig.4
5	QPSK	836.5	20525	3	15	0	2.68	Fig.5
5	QPSK	847.5	20635	3	15	0	2.67	Fig.6
5	QPSK	826.5	20425	5	25	0	4.46	Fig.7
5	QPSK	836.5	20525	5	25	0	4.47	Fig.8
5	QPSK	846.5	20625	5	25	0	4.45	Fig.9
5	QPSK	829	20450	10	50	0	8.94	Fig.10
5	QPSK	836.5	20525	10	50	0	8.88	Fig.11
5	QPSK	844	20600	10	50	0	8.92	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	1.08	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.07	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.07	Fig.15
5	16QAM	825.5	20415	3	15	0	2.68	Fig.16
5	16QAM	836.5	20525	3	15	0	2.68	Fig.17
5	16QAM	847.5	20635	3	15	0	2.67	Fig.18
5	16QAM	826.5	20425	5	25	0	4.45	Fig.19
5	16QAM	836.5	20525	5	25	0	4.46	Fig.20
5	16QAM	846.5	20625	5	25	0	4.44	Fig.21
5	16QAM	829	20450	10	50	0	8.92	Fig.22
5	16QAM	836.5	20525	10	50	0	8.90	Fig.23
5	16QAM	844	20600	10	50	0	8.92	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	1.08	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.07	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.07	Fig.27
5	64QAM	825.5	20415	3	15	0	2.67	Fig.28
5	64QAM	836.5	20525	3	15	0	2.67	Fig.29
5	64QAM	847.5	20635	3	15	0	2.67	Fig.30
5	64QAM	826.5	20425	5	25	0	4.46	Fig.31
5	64QAM	836.5	20525	5	25	0	4.460	Fig.32
5	64QAM	846.5	20625	5	25	0	4.45	Fig.33
5	64QAM	829	20450	10	50	0	8.91	Fig.34
5	64QAM	836.5	20525	10	50	0	8.91	Fig.35
5	64QAM	844	20600	10	50	0	8.91	Fig.36

Test Mode: QPSK

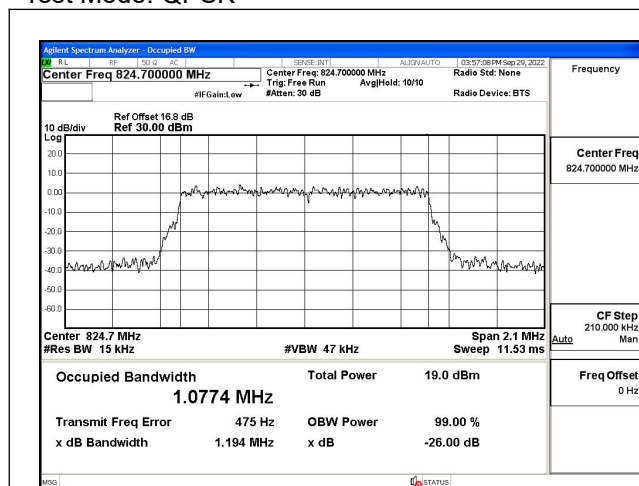


Fig.1

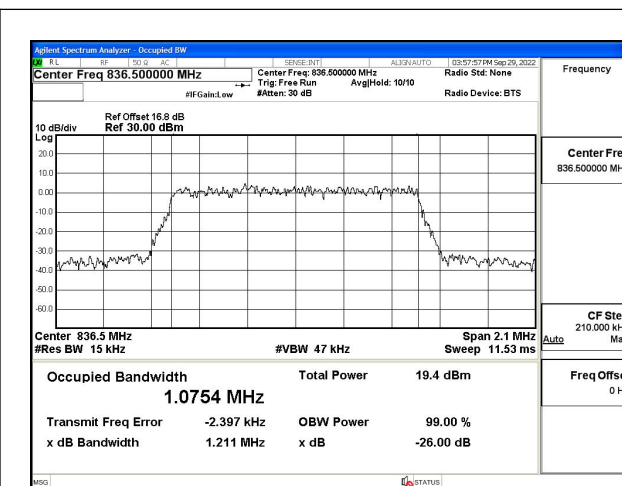


Fig.2

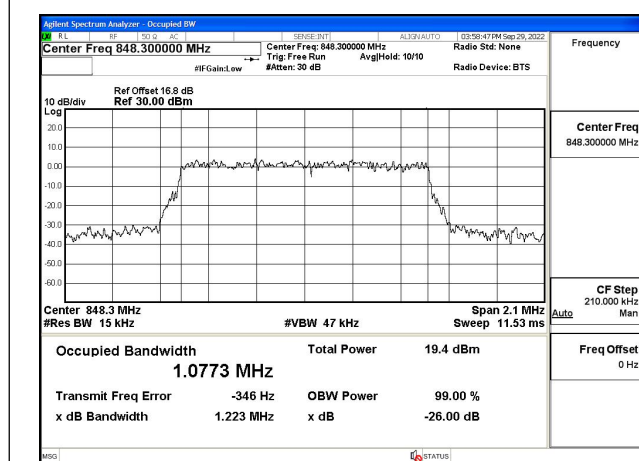


Fig.3

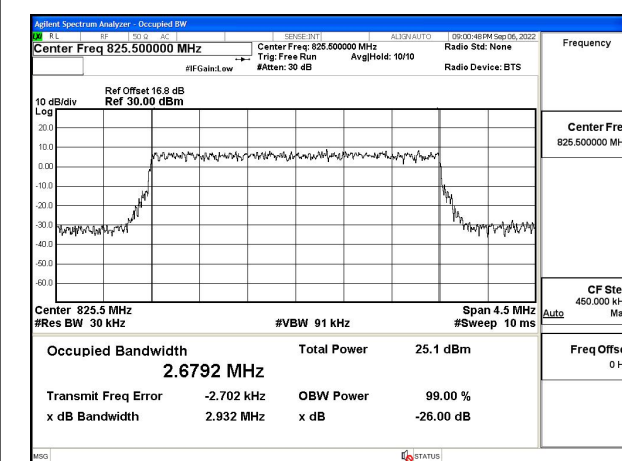


Fig.4

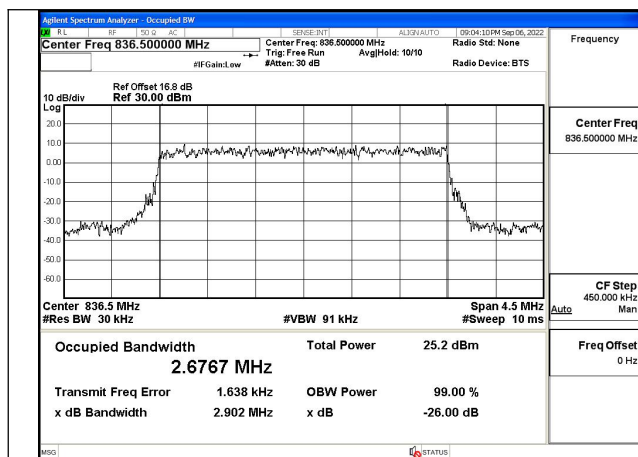


Fig.5

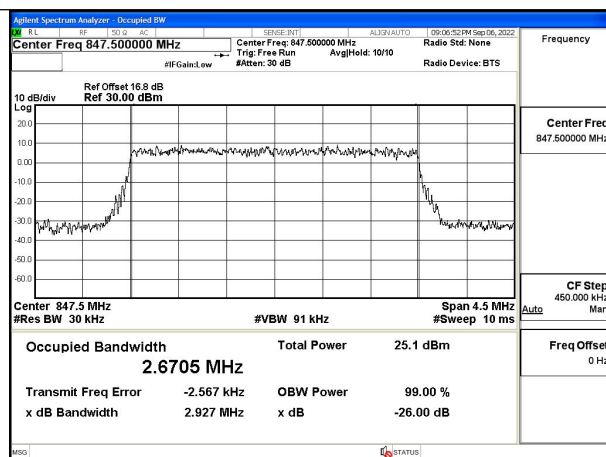


Fig.6

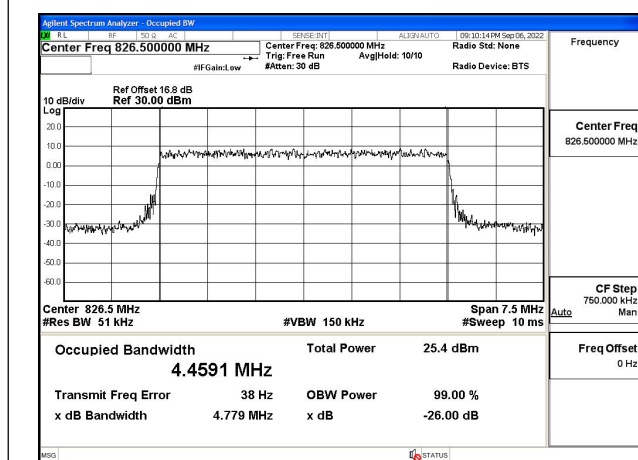


Fig.7

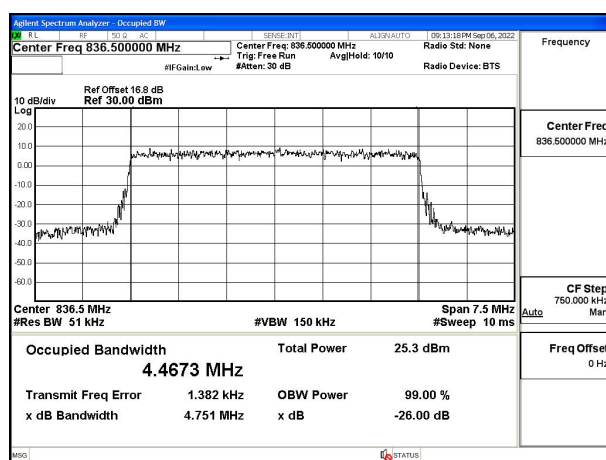


Fig.8

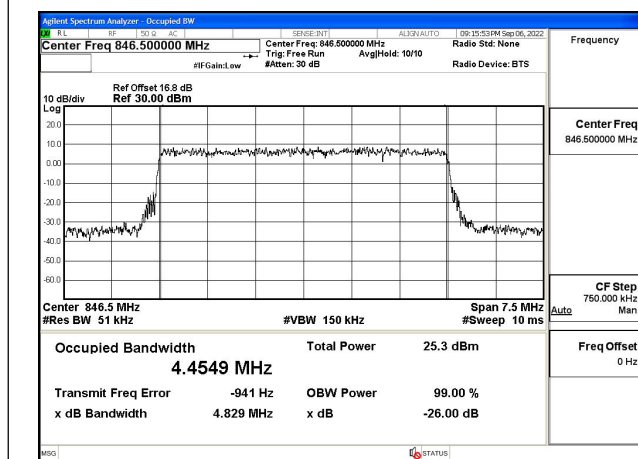


Fig.9

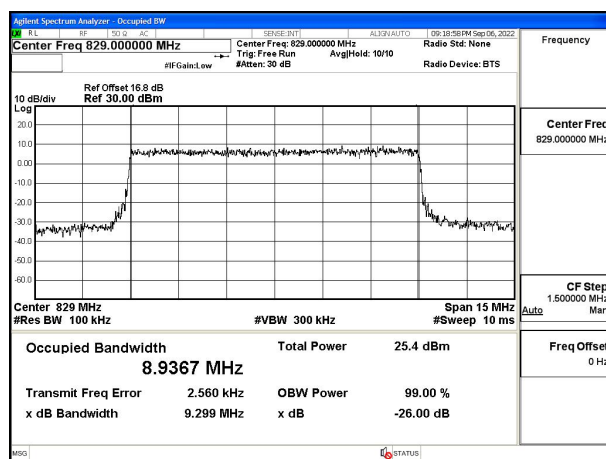


Fig.10

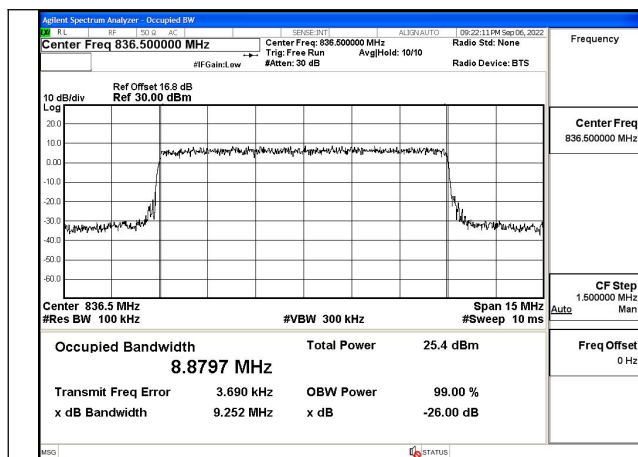


Fig.11

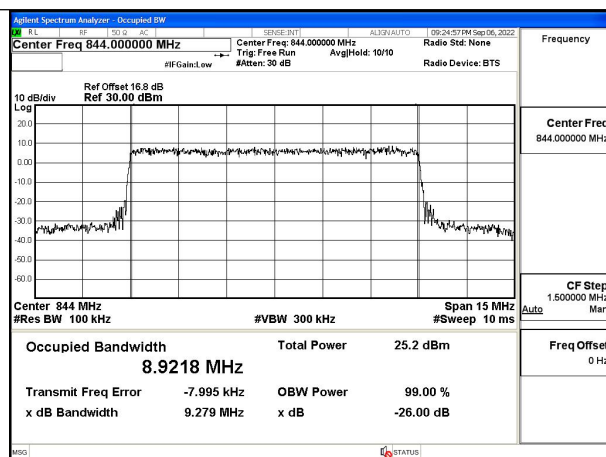


Fig.12

Test Mode: 16QAM

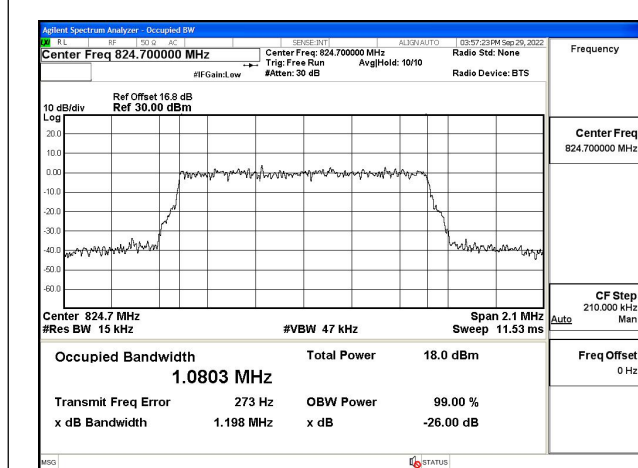


Fig.13

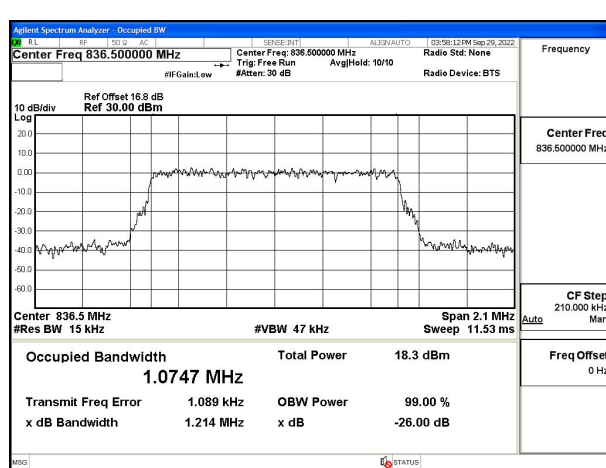


Fig.14

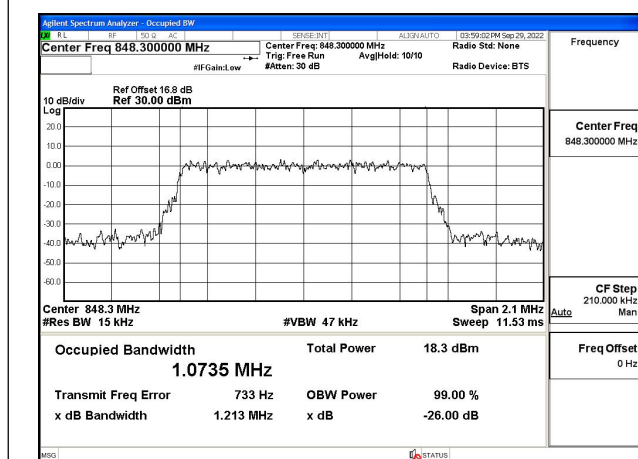


Fig.15

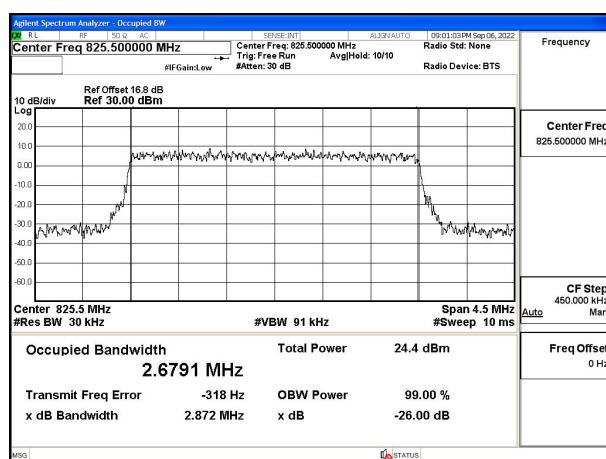


Fig.16

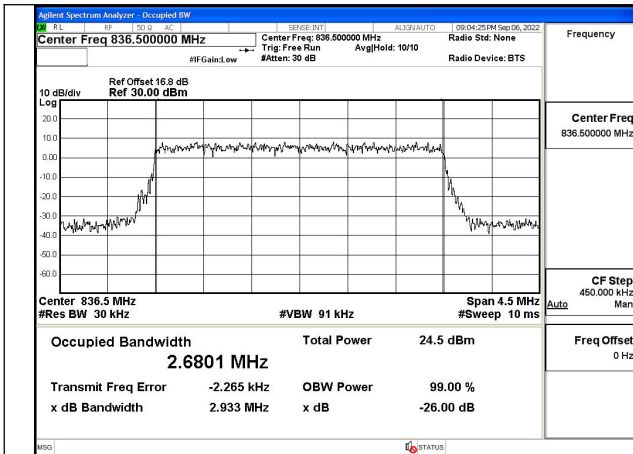


Fig.17

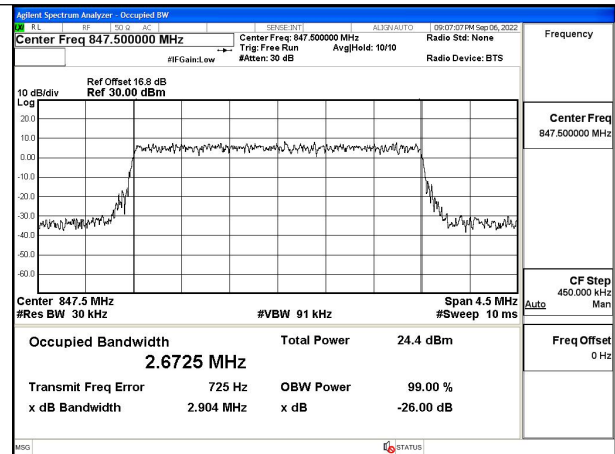


Fig.18

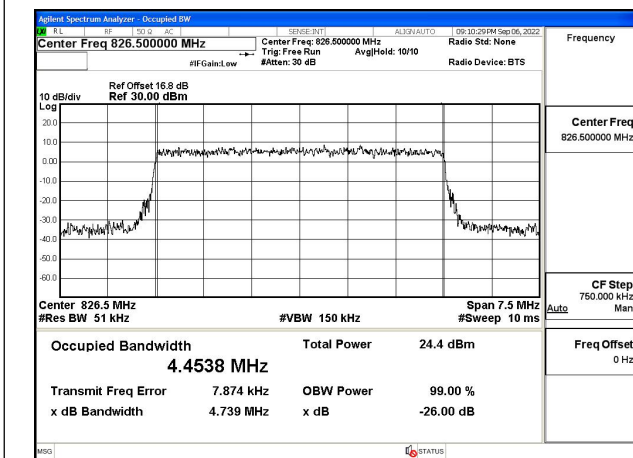


Fig.19

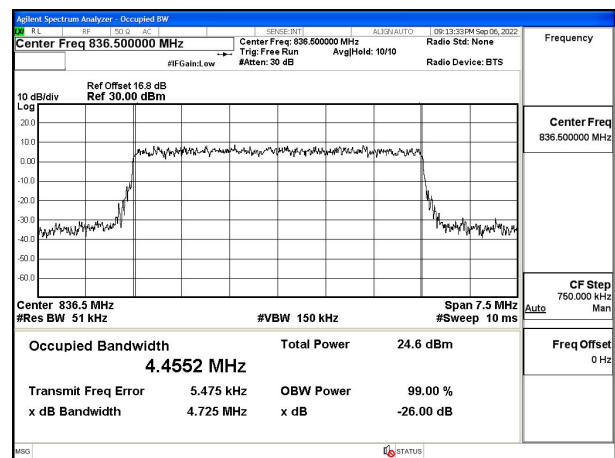


Fig.20

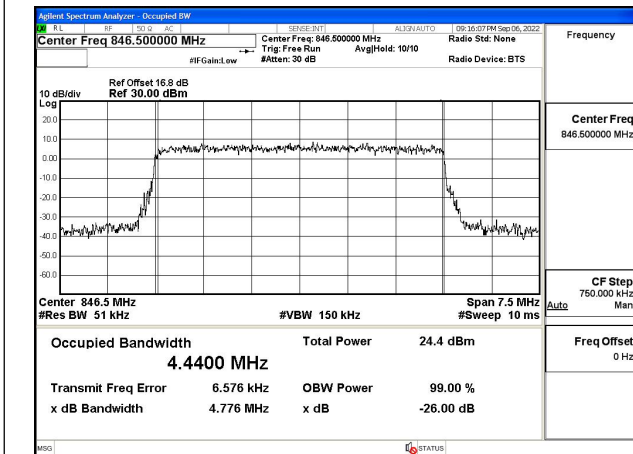


Fig.21

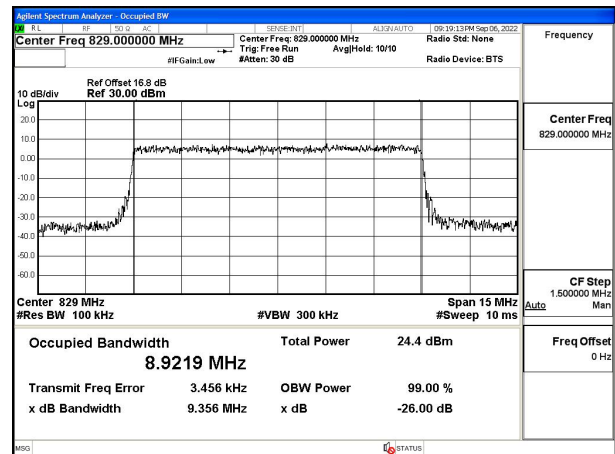


Fig.22

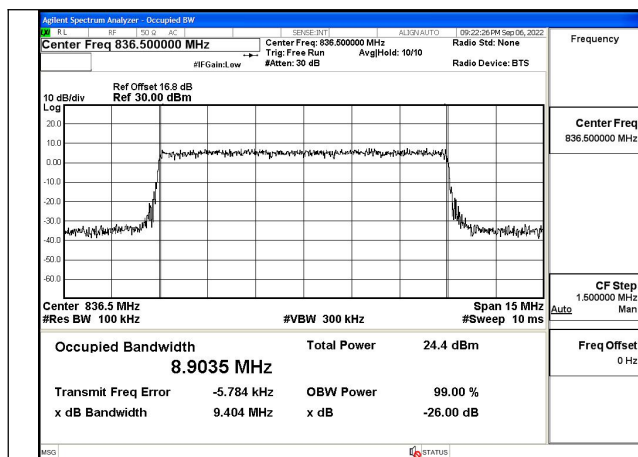


Fig.23

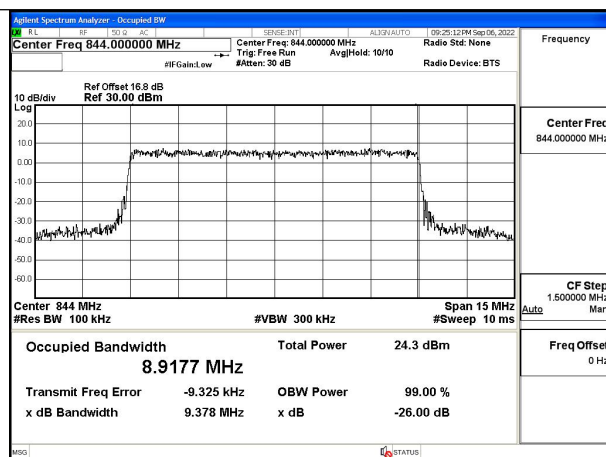


Fig.24

Test Mode: 64QAM

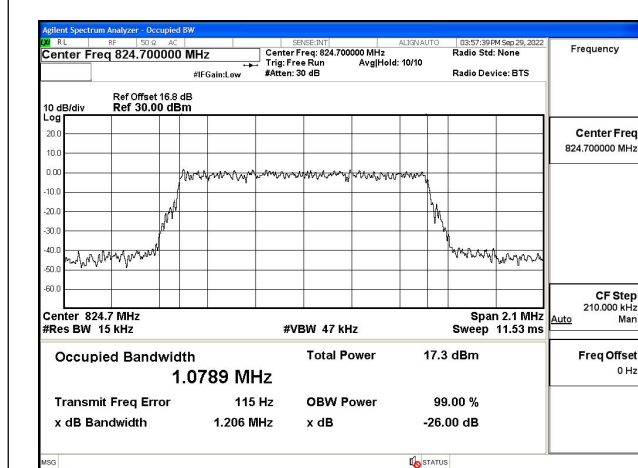


Fig.25

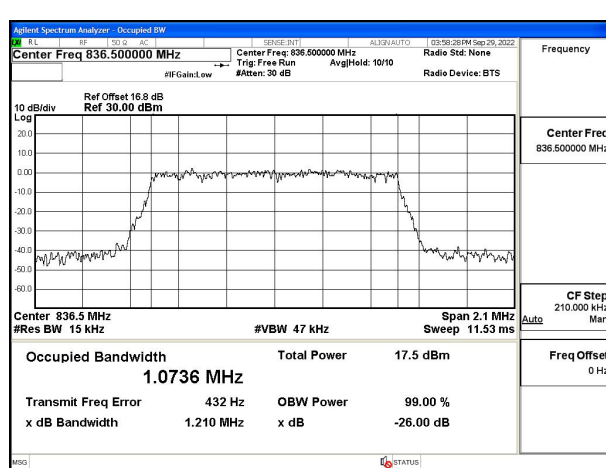


Fig.26

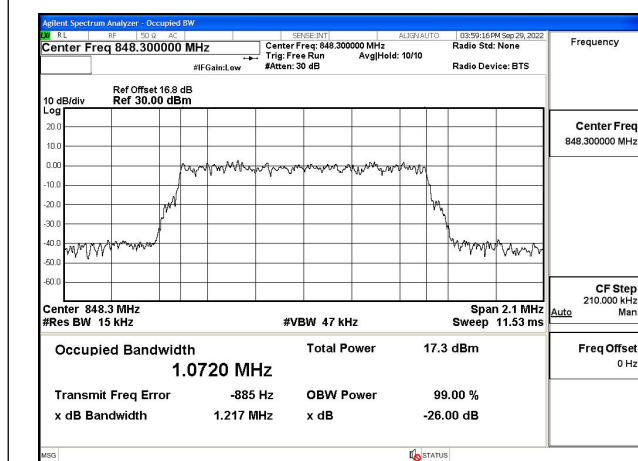


Fig.27

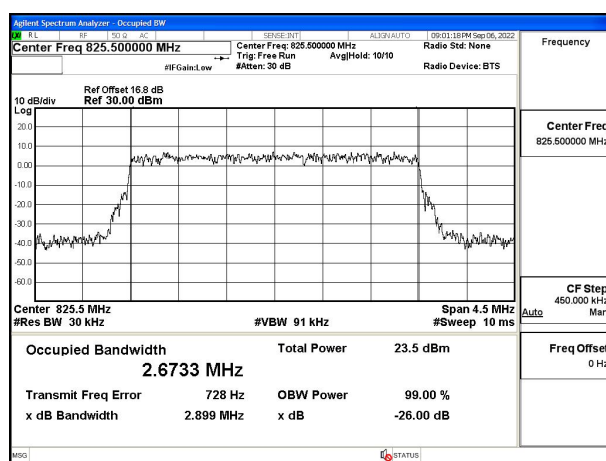


Fig.28

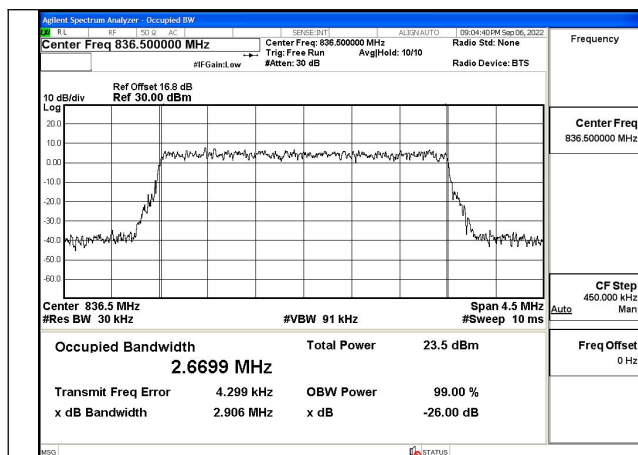


Fig.29

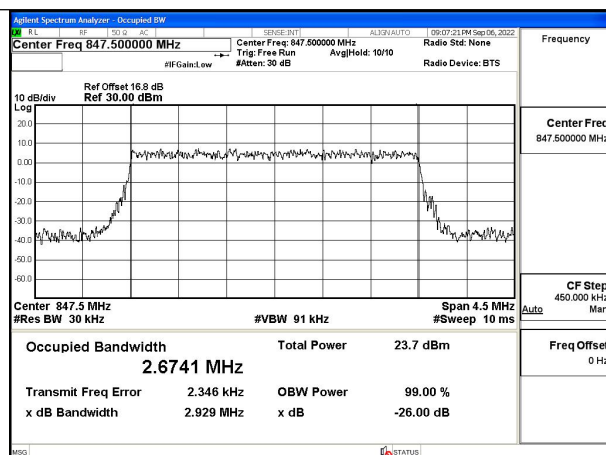


Fig.30

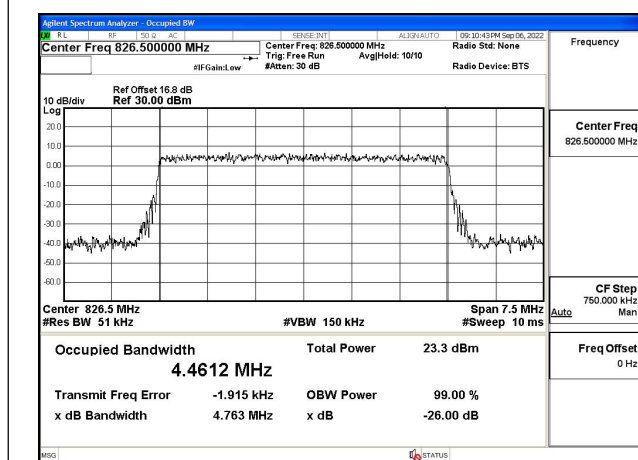


Fig.31

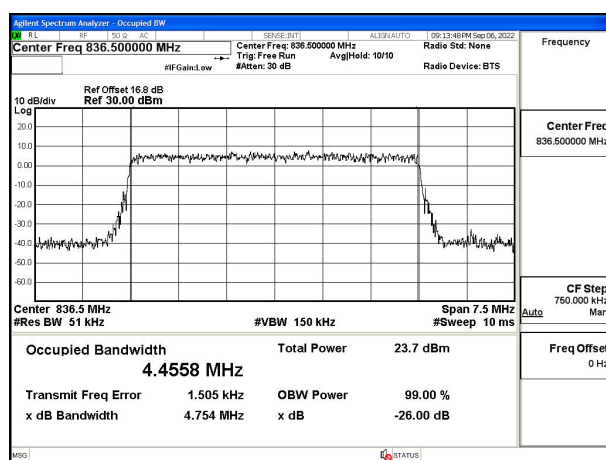


Fig.32

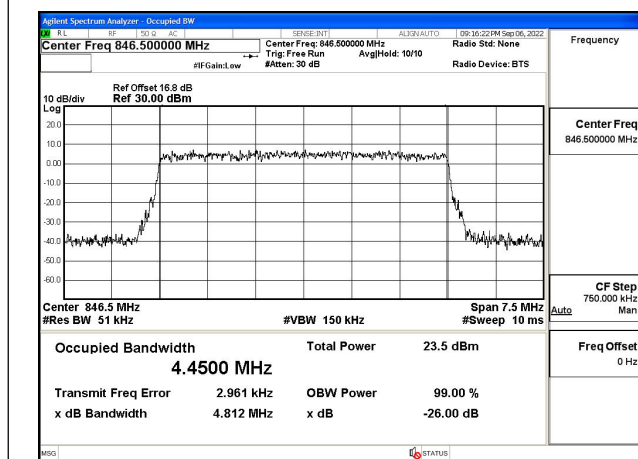


Fig.33

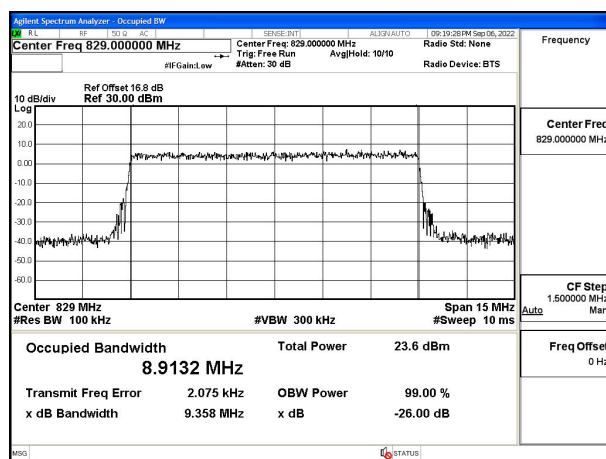


Fig.34

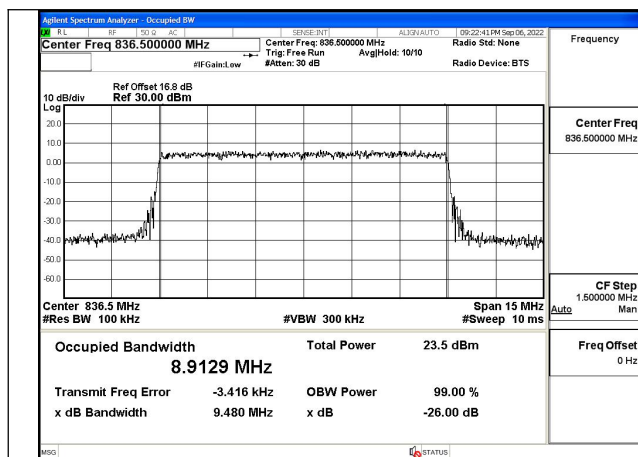


Fig.35

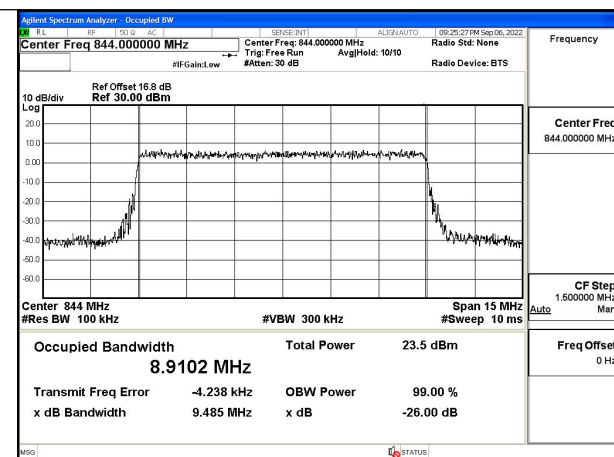


Fig.36

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	1.19	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.21	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.22	Fig.3
5	QPSK	825.5	20415	3	15	0	2.93	Fig.4
5	QPSK	836.5	20525	3	15	0	2.90	Fig.5
5	QPSK	847.5	20635	3	15	0	2.93	Fig.6
5	QPSK	826.5	20425	5	25	0	4.78	Fig.7
5	QPSK	836.5	20525	5	25	0	4.75	Fig.8
5	QPSK	846.5	20625	5	25	0	4.83	Fig.9
5	QPSK	829	20450	10	50	0	9.30	Fig.10
5	QPSK	836.5	20525	10	50	0	9.25	Fig.11
5	QPSK	844	20600	10	50	0	9.28	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	1.20	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.21	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.21	Fig.15
5	16QAM	825.5	20415	3	15	0	2.87	Fig.16
5	16QAM	836.5	20525	3	15	0	2.93	Fig.17
5	16QAM	847.5	20635	3	15	0	2.90	Fig.18
5	16QAM	826.5	20425	5	25	0	4.74	Fig.19
5	16QAM	836.5	20525	5	25	0	4.72	Fig.20
5	16QAM	846.5	20625	5	25	0	4.78	Fig.21
5	16QAM	829	20450	10	50	0	9.36	Fig.22
5	16QAM	836.5	20525	10	50	0	9.40	Fig.23
5	16QAM	844	20600	10	50	0	9.38	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	1.21	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.21	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.22	Fig.27
5	64QAM	825.5	20415	3	15	0	2.90	Fig.28
5	64QAM	836.5	20525	3	15	0	2.91	Fig.29
5	64QAM	847.5	20635	3	15	0	2.93	Fig.30
5	64QAM	826.5	20425	5	25	0	4.76	Fig.31
5	64QAM	836.5	20525	5	25	0	4.75	Fig.32
5	64QAM	846.5	20625	5	25	0	4.81	Fig.33
5	64QAM	829	20450	10	50	0	9.36	Fig.34
5	64QAM	836.5	20525	10	50	0	9.48	Fig.35
5	64QAM	844	20600	10	50	0	9.49	Fig.36

Test Mode: QPSK

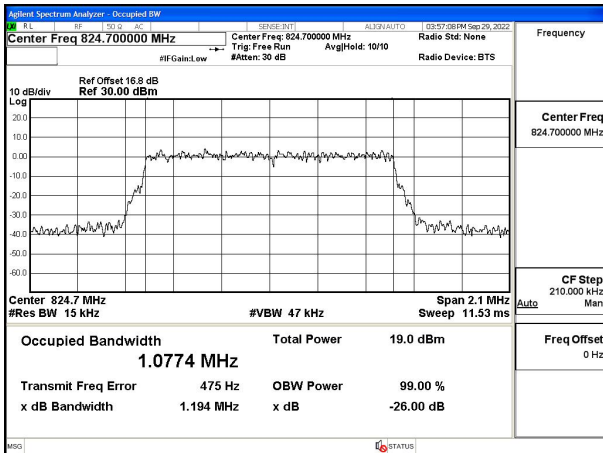


Fig.1

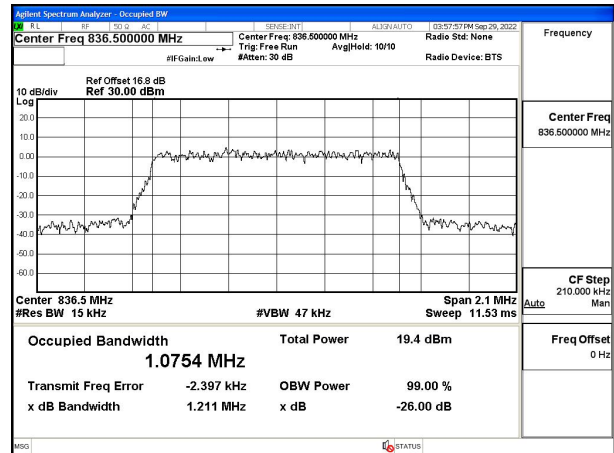


Fig.2

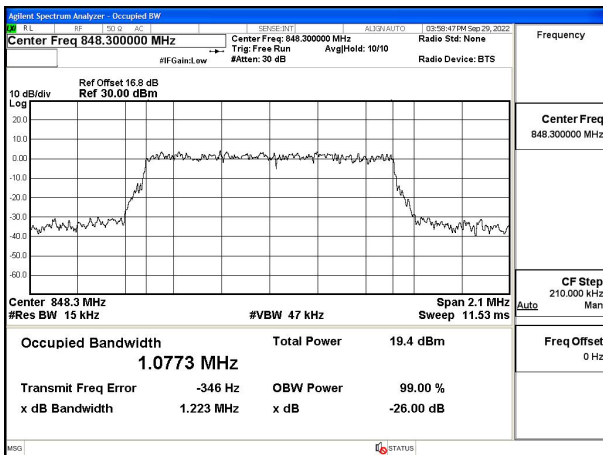


Fig.3

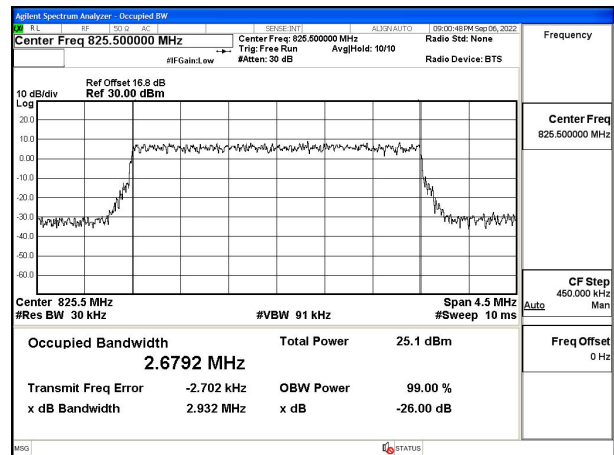


Fig.4

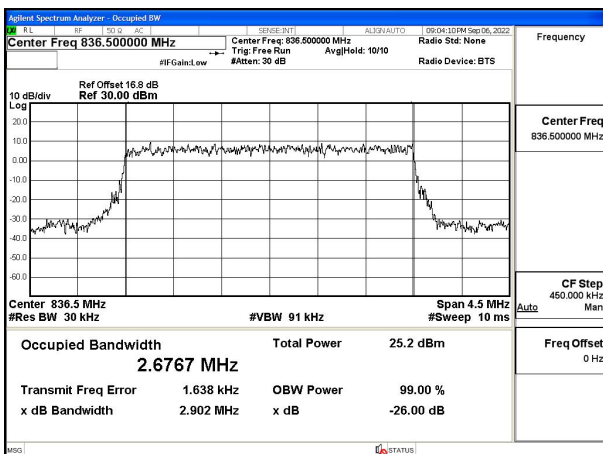


Fig.5

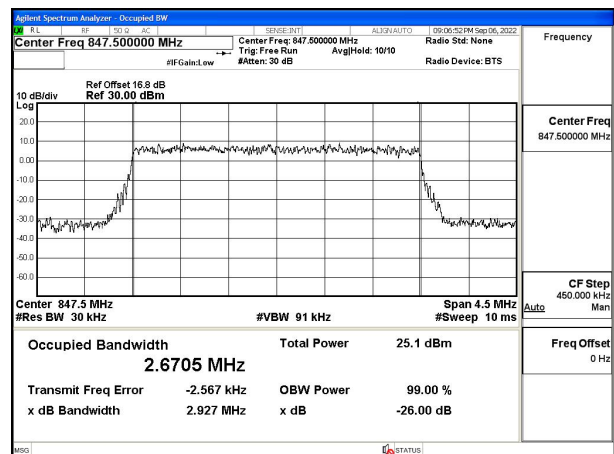


Fig.6