

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	25.68
QPSK	824.7	20407	1.4	1	3	25.89
QPSK	824.7	20407	1.4	1	5	25.67
QPSK	824.7	20407	1.4	3	0	25.90
QPSK	824.7	20407	1.4	3	1	25.97
QPSK	824.7	20407	1.4	3	3	25.90
QPSK	824.7	20407	1.4	6	0	24.93
QPSK	836.5	20525	1.4	1	0	25.84
QPSK	836.5	20525	1.4	1	3	25.82
QPSK	836.5	20525	1.4	1	5	25.81
QPSK	836.5	20525	1.4	3	0	25.83
QPSK	836.5	20525	1.4	3	1	25.84
QPSK	836.5	20525	1.4	3	3	25.84
QPSK	836.5	20525	1.4	6	0	24.83
QPSK	848.3	20643	1.4	1	0	25.89
QPSK	848.3	20643	1.4	1	3	25.89
QPSK	848.3	20643	1.4	1	5	25.92
QPSK	848.3	20643	1.4	3	0	25.88
QPSK	848.3	20643	1.4	3	1	25.88
QPSK	848.3	20643	1.4	3	3	25.91
QPSK	848.3	20643	1.4	6	0	24.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	25.32
16QAM	824.7	20407	1.4	1	3	24.83
16QAM	824.7	20407	1.4	1	5	25.13
16QAM	824.7	20407	1.4	3	0	25.22
16QAM	824.7	20407	1.4	3	1	25.17
16QAM	824.7	20407	1.4	3	3	25.24
16QAM	824.7	20407	1.4	6	0	23.80
16QAM	836.5	20525	1.4	1	0	25.68
16QAM	836.5	20525	1.4	1	3	25.66
16QAM	836.5	20525	1.4	1	5	25.73
16QAM	836.5	20525	1.4	3	0	25.32
16QAM	836.5	20525	1.4	3	1	25.38
16QAM	836.5	20525	1.4	3	3	25.27
16QAM	836.5	20525	1.4	6	0	23.70
16QAM	848.3	20643	1.4	1	0	24.71
16QAM	848.3	20643	1.4	1	3	24.96
16QAM	848.3	20643	1.4	1	5	25.05
16QAM	848.3	20643	1.4	3	0	25.21
16QAM	848.3	20643	1.4	3	1	24.99
16QAM	848.3	20643	1.4	3	3	24.94
16QAM	848.3	20643	1.4	6	0	23.70
64QAM	824.7	20407	1.4	1	0	24.48
64QAM	824.7	20407	1.4	1	3	24.66
64QAM	824.7	20407	1.4	1	5	24.38
64QAM	824.7	20407	1.4	3	0	24.08
64QAM	824.7	20407	1.4	3	1	23.91
64QAM	824.7	20407	1.4	3	3	23.76
64QAM	824.7	20407	1.4	6	0	22.81
64QAM	836.5	20525	1.4	1	0	24.36
64QAM	836.5	20525	1.4	1	3	23.67
64QAM	836.5	20525	1.4	1	5	24.27
64QAM	836.5	20525	1.4	3	0	23.93
64QAM	836.5	20525	1.4	3	1	23.70
64QAM	836.5	20525	1.4	3	3	23.98
64QAM	836.5	20525	1.4	6	0	22.82
64QAM	848.3	20643	1.4	1	0	23.93
64QAM	848.3	20643	1.4	1	3	24.01
64QAM	848.3	20643	1.4	1	5	23.59
64QAM	848.3	20643	1.4	3	0	23.99
64QAM	848.3	20643	1.4	3	1	23.83
64QAM	848.3	20643	1.4	3	3	23.60
64QAM	848.3	20643	1.4	6	0	23.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	26.13
QPSK	825.5	20415	3	1	8	26.22
QPSK	825.5	20415	3	1	14	26.10
QPSK	825.5	20415	3	8	0	24.86
QPSK	825.5	20415	3	8	4	24.84
QPSK	825.5	20415	3	8	7	24.83
QPSK	825.5	20415	3	15	0	24.79
QPSK	836.5	20525	3	1	0	25.92
QPSK	836.5	20525	3	1	8	25.83
QPSK	836.5	20525	3	1	14	25.85
QPSK	836.5	20525	3	8	0	24.99
QPSK	836.5	20525	3	8	4	24.90
QPSK	836.5	20525	3	8	7	24.87
QPSK	836.5	20525	3	15	0	24.89
QPSK	847.5	20635	3	1	0	26.14
QPSK	847.5	20635	3	1	8	25.92
QPSK	847.5	20635	3	1	14	25.92
QPSK	847.5	20635	3	8	0	24.92
QPSK	847.5	20635	3	8	4	24.83
QPSK	847.5	20635	3	8	7	24.73
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	25.25
16QAM	825.5	20415	3	1	8	25.01
16QAM	825.5	20415	3	1	14	25.47
16QAM	825.5	20415	3	8	0	24.15
16QAM	825.5	20415	3	8	4	24.00
16QAM	825.5	20415	3	8	7	24.05
16QAM	825.5	20415	3	15	0	24.02
16QAM	836.5	20525	3	1	0	25.16
16QAM	836.5	20525	3	1	8	25.40
16QAM	836.5	20525	3	1	14	25.25
16QAM	836.5	20525	3	8	0	24.07
16QAM	836.5	20525	3	8	4	24.12
16QAM	836.5	20525	3	8	7	24.08
16QAM	836.5	20525	3	15	0	23.98
16QAM	847.5	20635	3	1	0	24.91
16QAM	847.5	20635	3	1	8	25.18
16QAM	847.5	20635	3	1	14	24.48
16QAM	847.5	20635	3	8	0	24.00
16QAM	847.5	20635	3	8	4	23.97
16QAM	847.5	20635	3	8	7	24.04
16QAM	847.5	20635	3	15	0	24.05
64QAM	825.5	20415	3	1	0	23.82
64QAM	825.5	20415	3	1	8	23.60
64QAM	825.5	20415	3	1	14	23.81
64QAM	825.5	20415	3	8	0	23.00
64QAM	825.5	20415	3	8	4	22.93
64QAM	825.5	20415	3	8	7	22.83
64QAM	825.5	20415	3	15	0	22.89
64QAM	836.5	20525	3	1	0	24.42
64QAM	836.5	20525	3	1	8	24.88
64QAM	836.5	20525	3	1	14	24.61
64QAM	836.5	20525	3	8	0	22.88
64QAM	836.5	20525	3	8	4	23.06
64QAM	836.5	20525	3	8	7	23.00
64QAM	836.5	20525	3	15	0	23.11
64QAM	847.5	20635	3	1	0	23.66
64QAM	847.5	20635	3	1	8	23.99
64QAM	847.5	20635	3	1	14	24.12
64QAM	847.5	20635	3	8	0	22.75
64QAM	847.5	20635	3	8	4	23.06
64QAM	847.5	20635	3	8	7	22.75
64QAM	847.5	20635	3	15	0	23.08

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	25.79
QPSK	826.5	20425	5	1	12	25.81
QPSK	826.5	20425	5	1	24	25.75
QPSK	826.5	20425	5	12	0	24.70
QPSK	826.5	20425	5	12	7	24.88
QPSK	826.5	20425	5	12	13	24.91
QPSK	826.5	20425	5	25	0	24.79
QPSK	836.5	20525	5	1	0	25.85
QPSK	836.5	20525	5	1	12	25.90
QPSK	836.5	20525	5	1	24	25.89
QPSK	836.5	20525	5	12	0	24.99
QPSK	836.5	20525	5	12	7	24.96
QPSK	836.5	20525	5	12	13	24.70
QPSK	836.5	20525	5	25	0	24.84
QPSK	846.5	20625	5	1	0	26.18
QPSK	846.5	20625	5	1	12	25.84
QPSK	846.5	20625	5	1	24	26.03
QPSK	846.5	20625	5	12	0	24.88
QPSK	846.5	20625	5	12	7	24.97
QPSK	846.5	20625	5	12	13	24.93
QPSK	846.5	20625	5	25	0	24.73

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	25.71
16QAM	826.5	20425	5	1	12	25.29
16QAM	826.5	20425	5	1	24	25.50
16QAM	826.5	20425	5	12	0	23.94
16QAM	826.5	20425	5	12	7	23.96
16QAM	826.5	20425	5	12	13	23.97
16QAM	826.5	20425	5	25	0	23.82
16QAM	836.5	20525	5	1	0	25.23
16QAM	836.5	20525	5	1	12	25.10
16QAM	836.5	20525	5	1	24	25.11
16QAM	836.5	20525	5	12	0	24.03
16QAM	836.5	20525	5	12	7	24.03
16QAM	836.5	20525	5	12	13	24.05
16QAM	836.5	20525	5	25	0	23.78
16QAM	846.5	20625	5	1	0	25.34
16QAM	846.5	20625	5	1	12	25.59
16QAM	846.5	20625	5	1	24	25.45
16QAM	846.5	20625	5	12	0	23.95
16QAM	846.5	20625	5	12	7	23.95
16QAM	846.5	20625	5	12	13	24.01
16QAM	846.5	20625	5	25	0	23.86
64QAM	826.5	20425	5	1	0	24.41
64QAM	826.5	20425	5	1	12	23.76
64QAM	826.5	20425	5	1	24	23.81
64QAM	826.5	20425	5	12	0	23.16
64QAM	826.5	20425	5	12	7	22.99
64QAM	826.5	20425	5	12	13	22.82
64QAM	826.5	20425	5	25	0	22.70
64QAM	836.5	20525	5	1	0	24.08
64QAM	836.5	20525	5	1	12	24.11
64QAM	836.5	20525	5	1	24	23.62
64QAM	836.5	20525	5	12	0	23.06
64QAM	836.5	20525	5	12	7	23.38
64QAM	836.5	20525	5	12	13	22.93
64QAM	836.5	20525	5	25	0	22.77
64QAM	846.5	20625	5	1	0	24.42
64QAM	846.5	20625	5	1	12	23.80
64QAM	846.5	20625	5	1	24	23.40
64QAM	846.5	20625	5	12	0	22.98
64QAM	846.5	20625	5	12	7	23.00
64QAM	846.5	20625	5	12	13	23.01
64QAM	846.5	20625	5	25	0	22.79

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	26.14
QPSK	829	20450	10	1	25	26.15
QPSK	829	20450	10	1	49	26.10
QPSK	829	20450	10	25	0	24.95
QPSK	829	20450	10	25	12	24.92
QPSK	829	20450	10	25	25	24.88
QPSK	829	20450	10	50	0	24.82
QPSK	836.5	20525	10	1	0	26.11
QPSK	836.5	20525	10	1	25	26.09
QPSK	836.5	20525	10	1	49	26.27
QPSK	836.5	20525	10	25	0	24.84
QPSK	836.5	20525	10	25	12	24.88
QPSK	836.5	20525	10	25	25	24.76
QPSK	836.5	20525	10	50	0	24.84
QPSK	844	20600	10	1	0	26.02
QPSK	844	20600	10	1	25	26.12
QPSK	844	20600	10	1	49	25.90
QPSK	844	20600	10	25	0	25.00
QPSK	844	20600	10	25	12	24.99
QPSK	844	20600	10	25	25	24.91
QPSK	844	20600	10	50	0	24.81

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	25.67
16QAM	829	20450	10	1	25	25.04
16QAM	829	20450	10	1	49	25.19
16QAM	829	20450	10	25	0	24.16
16QAM	829	20450	10	25	12	24.07
16QAM	829	20450	10	25	25	24.33
16QAM	829	20450	10	50	0	23.85
16QAM	836.5	20525	10	1	0	25.27
16QAM	836.5	20525	10	1	25	25.22
16QAM	836.5	20525	10	1	49	25.26
16QAM	836.5	20525	10	25	0	24.00
16QAM	836.5	20525	10	25	12	23.89
16QAM	836.5	20525	10	25	25	23.95
16QAM	836.5	20525	10	50	0	24.01
16QAM	844	20600	10	1	0	25.51
16QAM	844	20600	10	1	25	25.63
16QAM	844	20600	10	1	49	25.25
16QAM	844	20600	10	25	0	23.89
16QAM	844	20600	10	25	12	24.14
16QAM	844	20600	10	25	25	24.42
16QAM	844	20600	10	50	0	23.91
64QAM	829	20450	10	1	0	24.30
64QAM	829	20450	10	1	25	24.02
64QAM	829	20450	10	1	49	24.29
64QAM	829	20450	10	25	0	23.08
64QAM	829	20450	10	25	12	22.82
64QAM	829	20450	10	25	25	23.31
64QAM	829	20450	10	50	0	22.87
64QAM	836.5	20525	10	1	0	23.79
64QAM	836.5	20525	10	1	25	23.76
64QAM	836.5	20525	10	1	49	23.93
64QAM	836.5	20525	10	25	0	22.87
64QAM	836.5	20525	10	25	12	23.01
64QAM	836.5	20525	10	25	25	23.17
64QAM	836.5	20525	10	50	0	22.68
64QAM	844	20600	10	1	0	24.54
64QAM	844	20600	10	1	25	24.00
64QAM	844	20600	10	1	49	24.35
64QAM	844	20600	10	25	0	23.01
64QAM	844	20600	10	25	12	23.16
64QAM	844	20600	10	25	25	23.26
64QAM	844	20600	10	50	0	22.85

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	1.07	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.07	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	2.67	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	4.46	Fig.9
5	QPSK	829	20450	10	50	0	8.91	Fig.10
5	QPSK	836.5	20525	10	50	0	8.91	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	1.08	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	2.68	Fig.18
5	16QAM	826.5	20425	5	25	0	4.45	Fig.19
5	16QAM	836.5	20525	5	25	0	4.44	Fig.20
5	16QAM	846.5	20625	5	25	0	4.45	Fig.21
5	16QAM	829	20450	10	50	0	8.92	Fig.22
5	16QAM	836.5	20525	10	50	0	8.91	Fig.23
5	16QAM	844	20600	10	50	0	8.91	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	1.07	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.07	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.08	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	2.68	Fig.30
5	64QAM	826.5	20425	5	25	0	4.46	Fig.31
5	64QAM	836.5	20525	5	25	0	4.44	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	8.92	Fig.36

Test Mode: QPSK

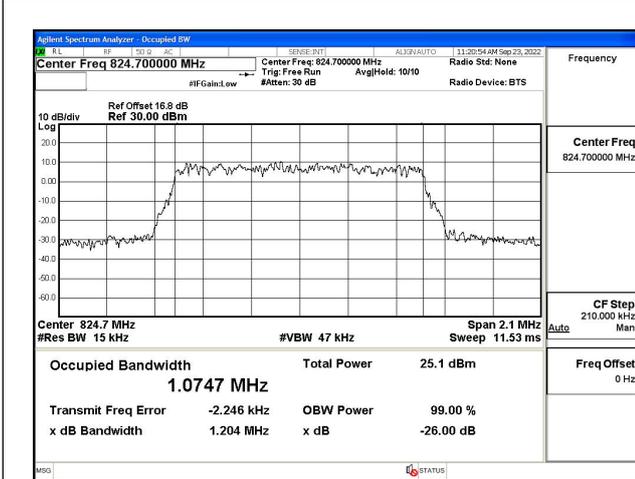


Fig.1

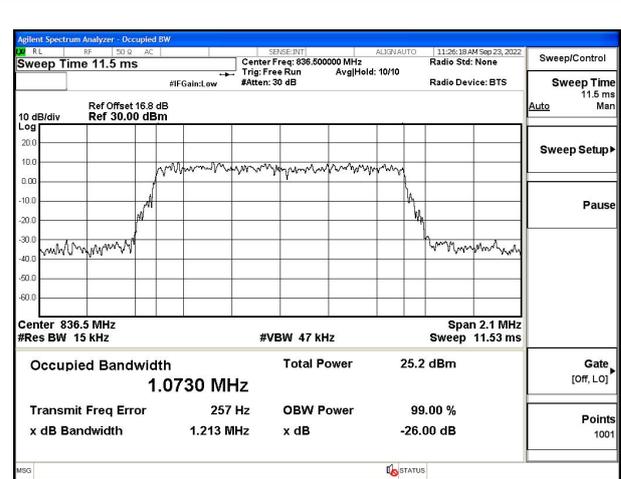


Fig.2

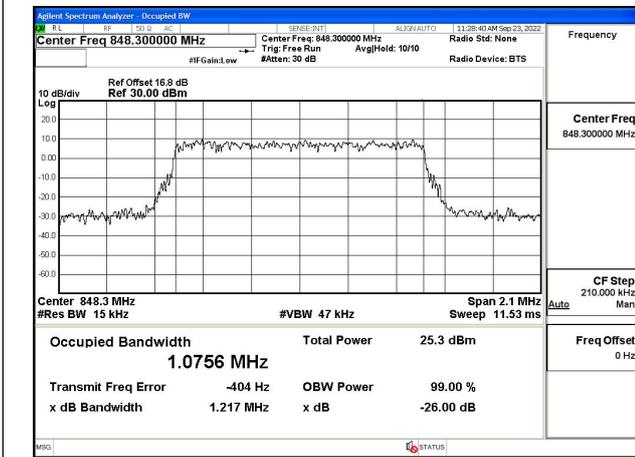


Fig.3

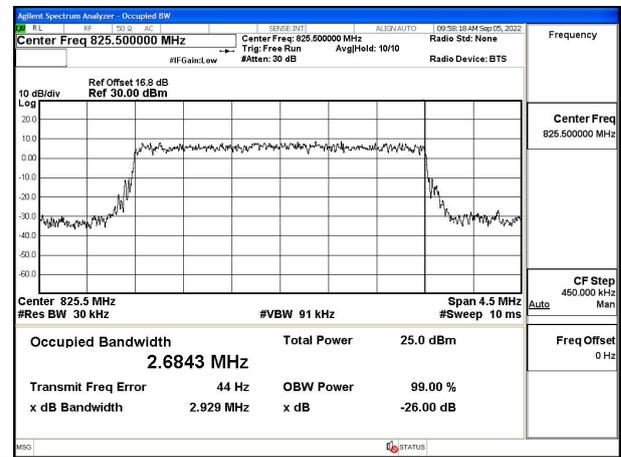


Fig.4

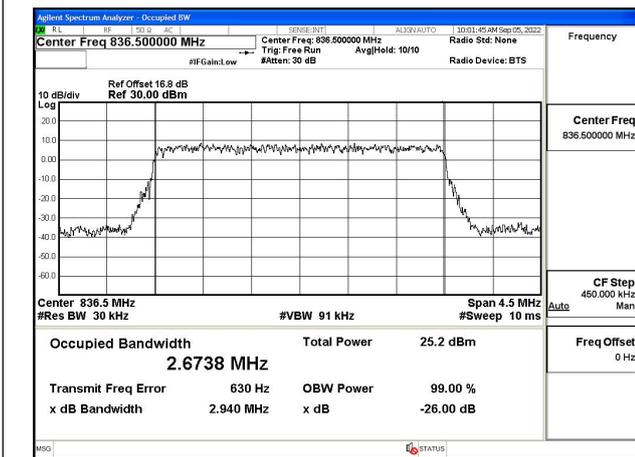


Fig.5

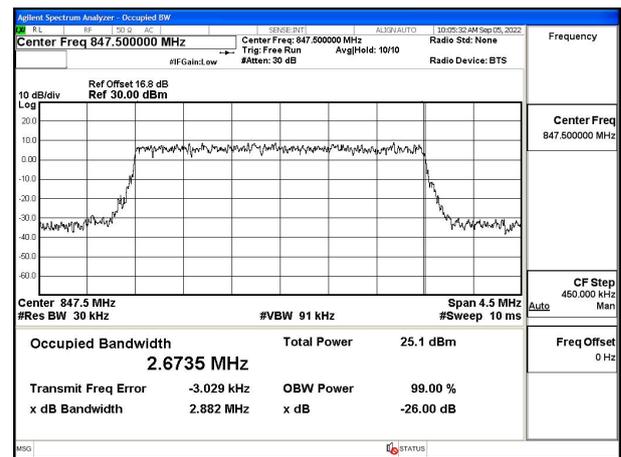


Fig.6

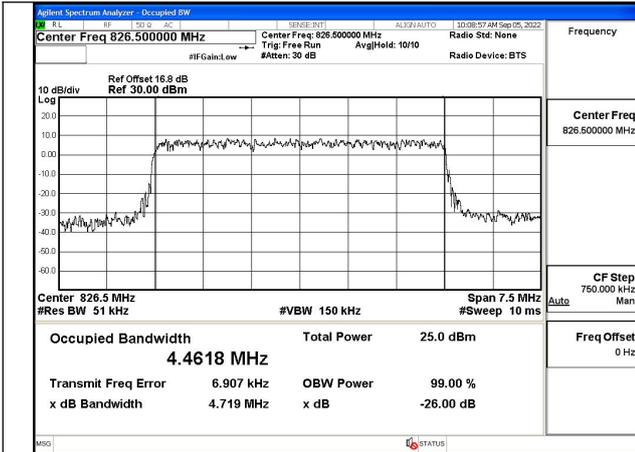


Fig.7

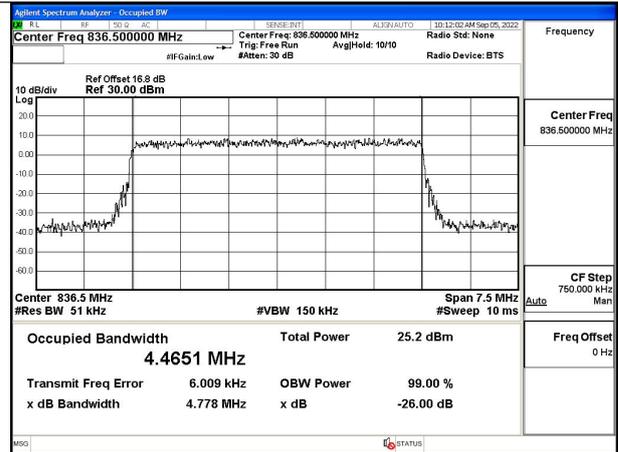


Fig.8

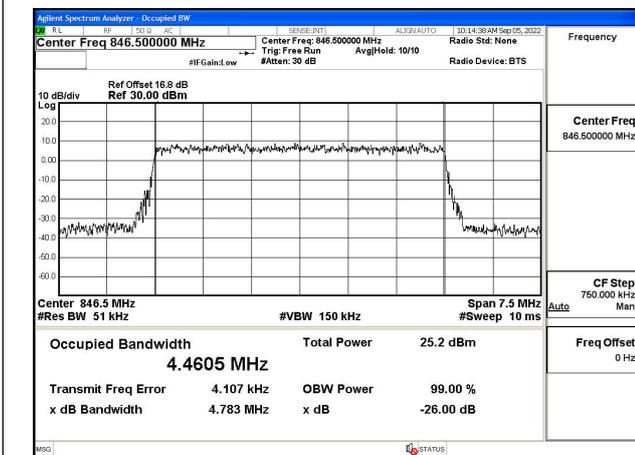


Fig.9

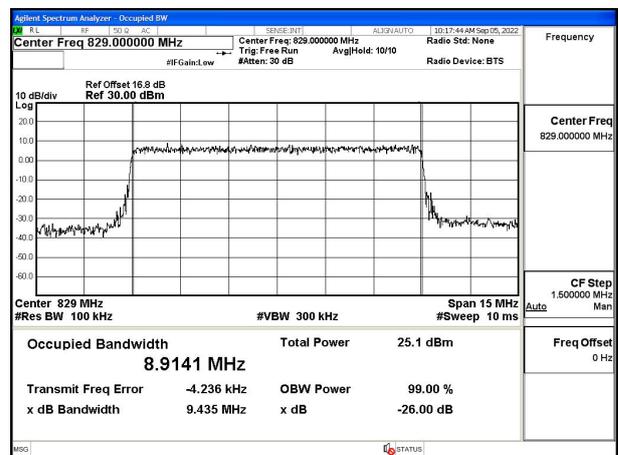


Fig.10

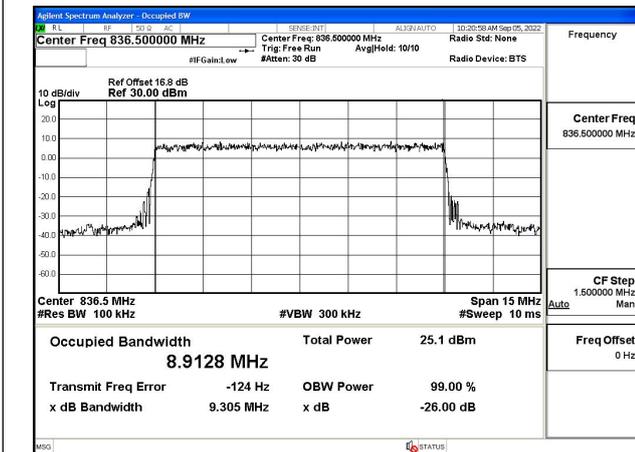


Fig.11

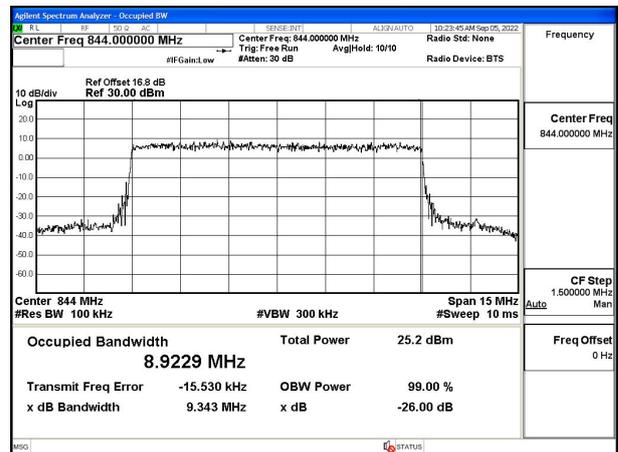


Fig.12

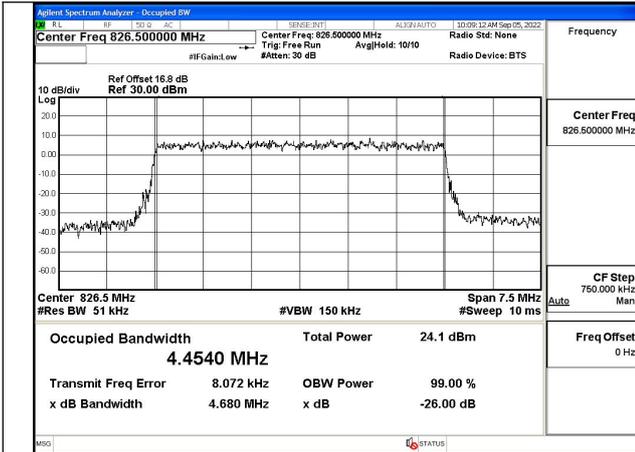


Fig.19

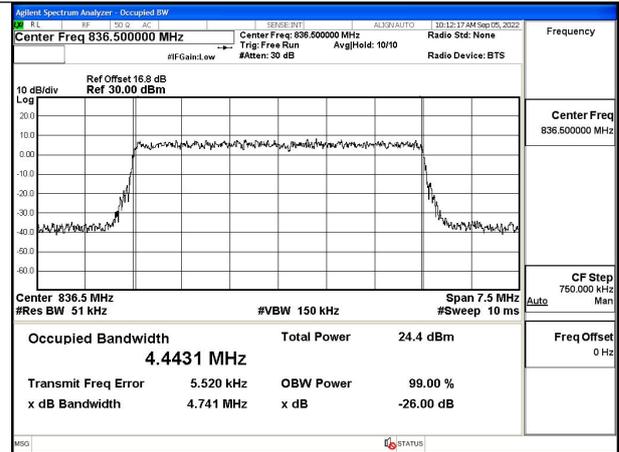


Fig.20

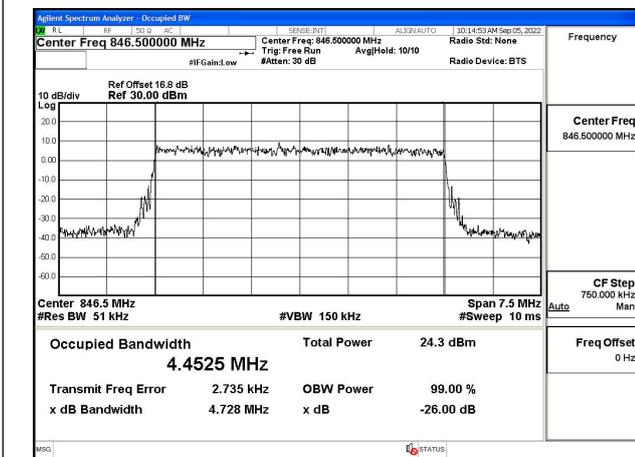


Fig.21

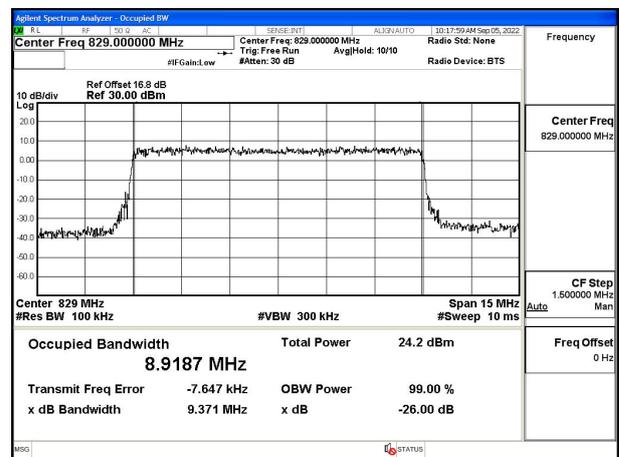


Fig.22

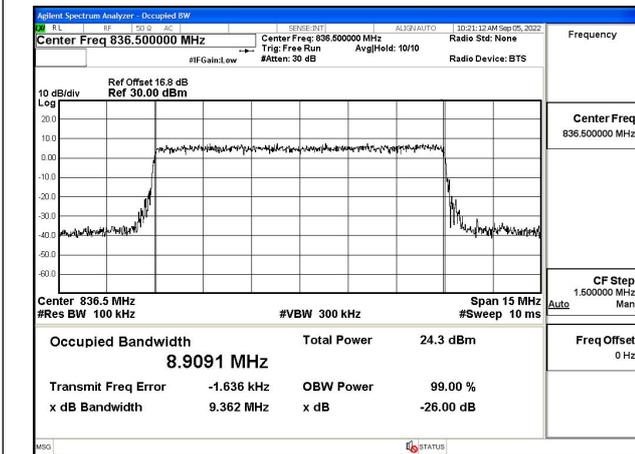


Fig.23

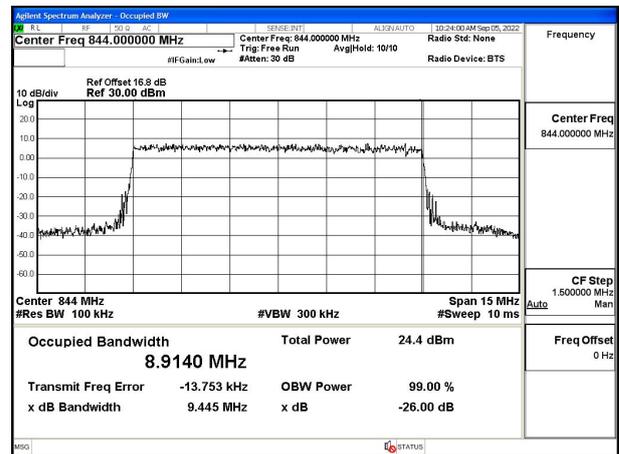


Fig.24

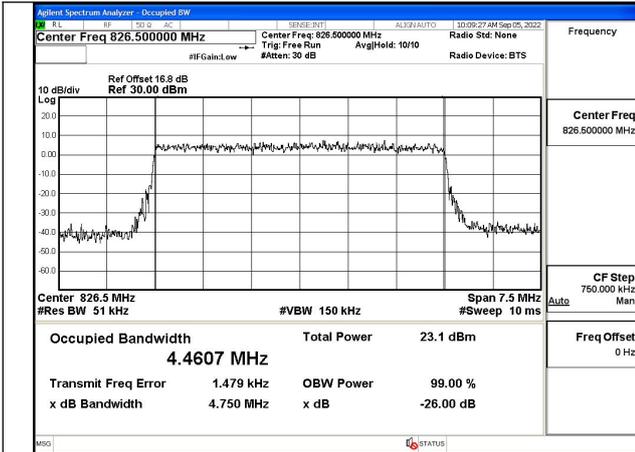


Fig.31

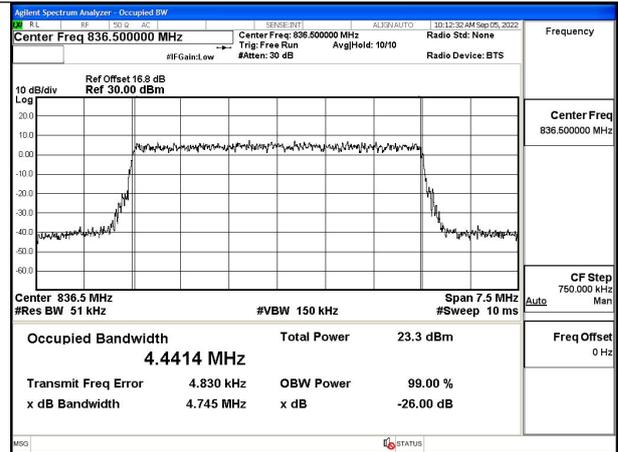


Fig.32

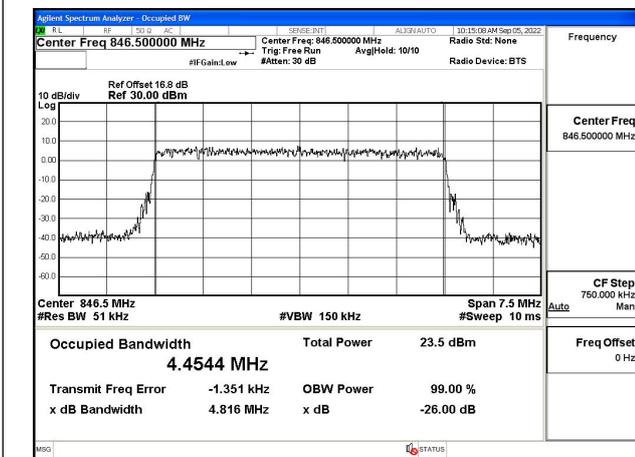


Fig.33

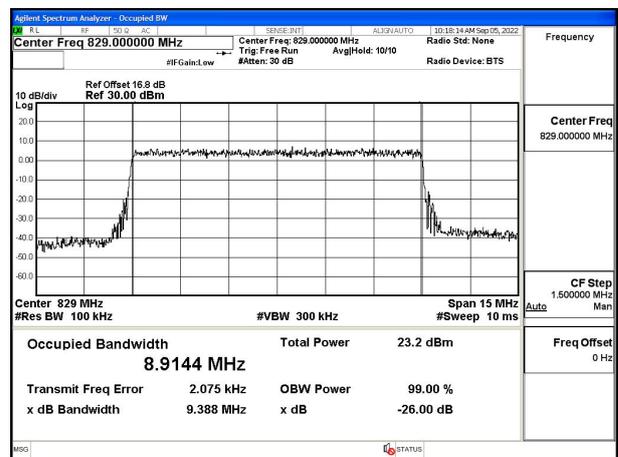


Fig.34

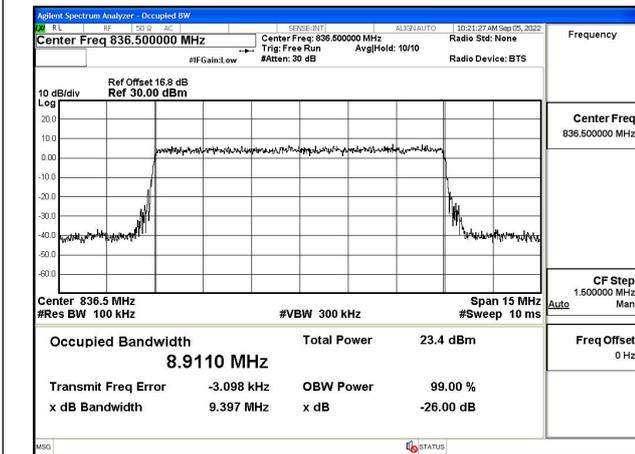


Fig.35

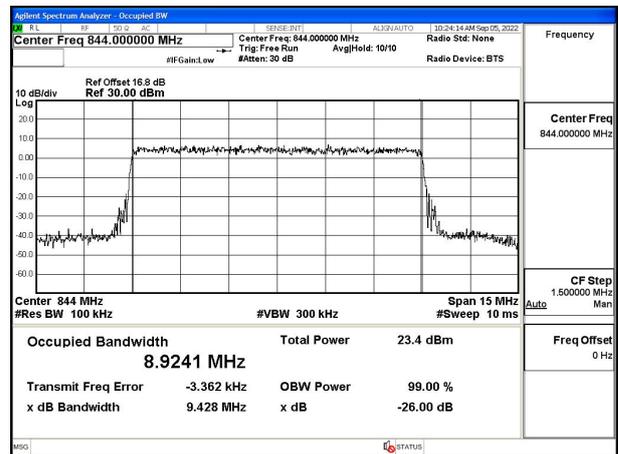


Fig.36

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	1.20	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	2.94	Fig.5
5	QPSK	847.5	20635	3	15	0	2.88	Fig.6
5	QPSK	826.5	20425	5	25	0	4.72	Fig.7
5	QPSK	836.5	20525	5	25	0	4.78	Fig.8
5	QPSK	846.5	20625	5	25	0	4.78	Fig.9
5	QPSK	829	20450	10	50	0	9.44	Fig.10
5	QPSK	836.5	20525	10	50	0	9.30	Fig.11
5	QPSK	844	20600	10	50	0	9.34	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	1.22	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.20	Fig.15
5	16QAM	825.5	20415	3	15	0	2.91	Fig.16
5	16QAM	836.5	20525	3	15	0	2.93	Fig.17
5	16QAM	847.5	20635	3	15	0	2.87	Fig.18
5	16QAM	826.5	20425	5	25	0	4.68	Fig.19
5	16QAM	836.5	20525	5	25	0	4.74	Fig.20
5	16QAM	846.5	20625	5	25	0	4.73	Fig.21
5	16QAM	829	20450	10	50	0	9.37	Fig.22
5	16QAM	836.5	20525	10	50	0	9.36	Fig.23
5	16QAM	844	20600	10	50	0	9.44	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	1.19	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.21	Fig.27
5	64QAM	825.5	20415	3	15	0	2.91	Fig.28
5	64QAM	836.5	20525	3	15	0	2.91	Fig.29
5	64QAM	847.5	20635	3	15	0	2.86	Fig.30
5	64QAM	826.5	20425	5	25	0	4.75	Fig.31
5	64QAM	836.5	20525	5	25	0	4.75	Fig.32
5	64QAM	846.5	20625	5	25	0	4.82	Fig.33
5	64QAM	829	20450	10	50	0	9.39	Fig.34
5	64QAM	836.5	20525	10	50	0	9.40	Fig.35
5	64QAM	844	20600	10	50	0	9.43	Fig.36

Test Mode: QPSK

