

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	24.11
QPSK	824.7	20407	1.4	1	3	24.34
QPSK	824.7	20407	1.4	1	5	24.12
QPSK	824.7	20407	1.4	3	0	24.17
QPSK	824.7	20407	1.4	3	1	24.14
QPSK	824.7	20407	1.4	3	3	24.24
QPSK	824.7	20407	1.4	6	0	23.28
QPSK	836.5	20525	1.4	1	0	23.80
QPSK	836.5	20525	1.4	1	3	23.92
QPSK	836.5	20525	1.4	1	5	23.85
QPSK	836.5	20525	1.4	3	0	23.94
QPSK	836.5	20525	1.4	3	1	23.99
QPSK	836.5	20525	1.4	3	3	23.99
QPSK	836.5	20525	1.4	6	0	23.05
QPSK	848.3	20643	1.4	1	0	24.11
QPSK	848.3	20643	1.4	1	3	23.95
QPSK	848.3	20643	1.4	1	5	23.88
QPSK	848.3	20643	1.4	3	0	24.13
QPSK	848.3	20643	1.4	3	1	24.16
QPSK	848.3	20643	1.4	3	3	24.09
QPSK	848.3	20643	1.4	6	0	23.06

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	23.15
16QAM	824.7	20407	1.4	1	3	23.86
16QAM	824.7	20407	1.4	1	5	23.29
16QAM	824.7	20407	1.4	3	0	23.18
16QAM	824.7	20407	1.4	3	1	23.17
16QAM	824.7	20407	1.4	3	3	23.15
16QAM	824.7	20407	1.4	6	0	22.37
16QAM	836.5	20525	1.4	1	0	23.27
16QAM	836.5	20525	1.4	1	3	23.27
16QAM	836.5	20525	1.4	1	5	23.19
16QAM	836.5	20525	1.4	3	0	22.98
16QAM	836.5	20525	1.4	3	1	23.00
16QAM	836.5	20525	1.4	3	3	23.02
16QAM	836.5	20525	1.4	6	0	22.22
16QAM	848.3	20643	1.4	1	0	23.26
16QAM	848.3	20643	1.4	1	3	23.44
16QAM	848.3	20643	1.4	1	5	23.02
16QAM	848.3	20643	1.4	3	0	23.08
16QAM	848.3	20643	1.4	3	1	23.13
16QAM	848.3	20643	1.4	3	3	23.12
16QAM	848.3	20643	1.4	6	0	22.33
64QAM	824.7	20407	1.4	1	0	21.89
64QAM	824.7	20407	1.4	1	3	21.88
64QAM	824.7	20407	1.4	1	5	22.06
64QAM	824.7	20407	1.4	3	0	22.43
64QAM	824.7	20407	1.4	3	1	22.24
64QAM	824.7	20407	1.4	3	3	22.32
64QAM	824.7	20407	1.4	6	0	21.19
64QAM	836.5	20525	1.4	1	0	22.16
64QAM	836.5	20525	1.4	1	3	22.01
64QAM	836.5	20525	1.4	1	5	22.05
64QAM	836.5	20525	1.4	3	0	22.00
64QAM	836.5	20525	1.4	3	1	22.15
64QAM	836.5	20525	1.4	3	3	22.13
64QAM	836.5	20525	1.4	6	0	21.07
64QAM	848.3	20643	1.4	1	0	22.09
64QAM	848.3	20643	1.4	1	3	22.22
64QAM	848.3	20643	1.4	1	5	21.98
64QAM	848.3	20643	1.4	3	0	22.09
64QAM	848.3	20643	1.4	3	1	22.25
64QAM	848.3	20643	1.4	3	3	22.27
64QAM	848.3	20643	1.4	6	0	21.21

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	24.21
QPSK	825.5	20415	3	1	8	24.17
QPSK	825.5	20415	3	1	14	24.01
QPSK	825.5	20415	3	8	0	23.19
QPSK	825.5	20415	3	8	4	23.26
QPSK	825.5	20415	3	8	7	23.08
QPSK	825.5	20415	3	15	0	23.15
QPSK	836.5	20525	3	1	0	24.06
QPSK	836.5	20525	3	1	8	23.95
QPSK	836.5	20525	3	1	14	24.02
QPSK	836.5	20525	3	8	0	23.06
QPSK	836.5	20525	3	8	4	23.11
QPSK	836.5	20525	3	8	7	23.08
QPSK	836.5	20525	3	15	0	22.99
QPSK	847.5	20635	3	1	0	24.06
QPSK	847.5	20635	3	1	8	23.98
QPSK	847.5	20635	3	1	14	24.05
QPSK	847.5	20635	3	8	0	23.08
QPSK	847.5	20635	3	8	4	23.15
QPSK	847.5	20635	3	8	7	23.08
QPSK	847.5	20635	3	15	0	23.17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	23.24
16QAM	825.5	20415	3	1	8	23.58
16QAM	825.5	20415	3	1	14	23.07
16QAM	825.5	20415	3	8	0	22.19
16QAM	825.5	20415	3	8	4	22.31
16QAM	825.5	20415	3	8	7	22.14
16QAM	825.5	20415	3	15	0	22.17
16QAM	836.5	20525	3	1	0	23.58
16QAM	836.5	20525	3	1	8	23.47
16QAM	836.5	20525	3	1	14	23.14
16QAM	836.5	20525	3	8	0	22.11
16QAM	836.5	20525	3	8	4	22.16
16QAM	836.5	20525	3	8	7	22.12
16QAM	836.5	20525	3	15	0	21.93
16QAM	847.5	20635	3	1	0	23.21
16QAM	847.5	20635	3	1	8	23.17
16QAM	847.5	20635	3	1	14	23.64
16QAM	847.5	20635	3	8	0	22.19
16QAM	847.5	20635	3	8	4	22.08
16QAM	847.5	20635	3	8	7	22.21
16QAM	847.5	20635	3	15	0	22.11
64QAM	825.5	20415	3	1	0	22.51
64QAM	825.5	20415	3	1	8	22.33
64QAM	825.5	20415	3	1	14	22.12
64QAM	825.5	20415	3	8	0	21.34
64QAM	825.5	20415	3	8	4	21.40
64QAM	825.5	20415	3	8	7	21.19
64QAM	825.5	20415	3	15	0	21.19
64QAM	836.5	20525	3	1	0	22.49
64QAM	836.5	20525	3	1	8	22.20
64QAM	836.5	20525	3	1	14	22.14
64QAM	836.5	20525	3	8	0	21.01
64QAM	836.5	20525	3	8	4	21.24
64QAM	836.5	20525	3	8	7	20.99
64QAM	836.5	20525	3	15	0	21.20
64QAM	847.5	20635	3	1	0	22.28
64QAM	847.5	20635	3	1	8	22.22
64QAM	847.5	20635	3	1	14	21.94
64QAM	847.5	20635	3	8	0	21.29
64QAM	847.5	20635	3	8	4	21.25
64QAM	847.5	20635	3	8	7	21.20
64QAM	847.5	20635	3	15	0	21.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.96
QPSK	826.5	20425	5	1	12	24.25
QPSK	826.5	20425	5	1	24	24.02
QPSK	826.5	20425	5	12	0	23.29
QPSK	826.5	20425	5	12	7	23.16
QPSK	826.5	20425	5	12	13	23.16
QPSK	826.5	20425	5	25	0	23.24
QPSK	836.5	20525	5	1	0	23.85
QPSK	836.5	20525	5	1	12	24.15
QPSK	836.5	20525	5	1	24	23.92
QPSK	836.5	20525	5	12	0	23.00
QPSK	836.5	20525	5	12	7	23.10
QPSK	836.5	20525	5	12	13	23.01
QPSK	836.5	20525	5	25	0	23.08
QPSK	846.5	20625	5	1	0	23.96
QPSK	846.5	20625	5	1	12	24.04
QPSK	846.5	20625	5	1	24	23.84
QPSK	846.5	20625	5	12	0	23.06
QPSK	846.5	20625	5	12	7	23.11
QPSK	846.5	20625	5	12	13	23.05
QPSK	846.5	20625	5	25	0	23.06

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	23.04
16QAM	826.5	20425	5	1	12	23.62
16QAM	826.5	20425	5	1	24	22.78
16QAM	826.5	20425	5	12	0	22.23
16QAM	826.5	20425	5	12	7	22.19
16QAM	826.5	20425	5	12	13	22.16
16QAM	826.5	20425	5	25	0	22.19
16QAM	836.5	20525	5	1	0	23.52
16QAM	836.5	20525	5	1	12	23.47
16QAM	836.5	20525	5	1	24	23.12
16QAM	836.5	20525	5	12	0	21.99
16QAM	836.5	20525	5	12	7	22.10
16QAM	836.5	20525	5	12	13	21.95
16QAM	836.5	20525	5	25	0	22.18
16QAM	846.5	20625	5	1	0	23.15
16QAM	846.5	20625	5	1	12	23.29
16QAM	846.5	20625	5	1	24	23.19
16QAM	846.5	20625	5	12	0	22.07
16QAM	846.5	20625	5	12	7	22.22
16QAM	846.5	20625	5	12	13	22.13
16QAM	846.5	20625	5	25	0	22.07
64QAM	826.5	20425	5	1	0	22.22
64QAM	826.5	20425	5	1	12	22.59
64QAM	826.5	20425	5	1	24	22.25
64QAM	826.5	20425	5	12	0	21.23
64QAM	826.5	20425	5	12	7	21.30
64QAM	826.5	20425	5	12	13	21.14
64QAM	826.5	20425	5	25	0	21.19
64QAM	836.5	20525	5	1	0	22.07
64QAM	836.5	20525	5	1	12	21.98
64QAM	836.5	20525	5	1	24	22.38
64QAM	836.5	20525	5	12	0	21.18
64QAM	836.5	20525	5	12	7	21.12
64QAM	836.5	20525	5	12	13	21.07
64QAM	836.5	20525	5	25	0	21.09
64QAM	846.5	20625	5	1	0	22.27
64QAM	846.5	20625	5	1	12	22.15
64QAM	846.5	20625	5	1	24	22.02
64QAM	846.5	20625	5	12	0	21.17
64QAM	846.5	20625	5	12	7	21.18
64QAM	846.5	20625	5	12	13	21.12
64QAM	846.5	20625	5	25	0	21.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	24.11
QPSK	829	20450	10	1	25	24.21
QPSK	829	20450	10	1	49	24.03
QPSK	829	20450	10	25	0	23.21
QPSK	829	20450	10	25	12	23.18
QPSK	829	20450	10	25	25	23.19
QPSK	829	20450	10	50	0	23.13
QPSK	836.5	20525	10	1	0	23.98
QPSK	836.5	20525	10	1	25	24.15
QPSK	836.5	20525	10	1	49	24.05
QPSK	836.5	20525	10	25	0	23.01
QPSK	836.5	20525	10	25	12	23.07
QPSK	836.5	20525	10	25	25	23.05
QPSK	836.5	20525	10	50	0	23.05
QPSK	844	20600	10	1	0	23.94
QPSK	844	20600	10	1	25	24.05
QPSK	844	20600	10	1	49	24.03
QPSK	844	20600	10	25	0	23.21
QPSK	844	20600	10	25	12	23.11
QPSK	844	20600	10	25	25	23.12
QPSK	844	20600	10	50	0	23.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	23.38
16QAM	829	20450	10	1	25	23.28
16QAM	829	20450	10	1	49	23.65
16QAM	829	20450	10	25	0	22.28
16QAM	829	20450	10	25	12	22.14
16QAM	829	20450	10	25	25	22.15
16QAM	829	20450	10	50	0	22.25
16QAM	836.5	20525	10	1	0	23.55
16QAM	836.5	20525	10	1	25	23.05
16QAM	836.5	20525	10	1	49	23.51
16QAM	836.5	20525	10	25	0	22.05
16QAM	836.5	20525	10	25	12	22.00
16QAM	836.5	20525	10	25	25	21.95
16QAM	836.5	20525	10	50	0	22.03
16QAM	844	20600	10	1	0	23.81
16QAM	844	20600	10	1	25	23.25
16QAM	844	20600	10	1	49	23.36
16QAM	844	20600	10	25	0	22.24
16QAM	844	20600	10	25	12	22.20
16QAM	844	20600	10	25	25	22.18
16QAM	844	20600	10	50	0	22.15
64QAM	829	20450	10	1	0	22.43
64QAM	829	20450	10	1	25	22.52
64QAM	829	20450	10	1	49	22.54
64QAM	829	20450	10	25	0	21.30
64QAM	829	20450	10	25	12	21.26
64QAM	829	20450	10	25	25	21.23
64QAM	829	20450	10	50	0	21.18
64QAM	836.5	20525	10	1	0	22.24
64QAM	836.5	20525	10	1	25	22.26
64QAM	836.5	20525	10	1	49	22.22
64QAM	836.5	20525	10	25	0	21.09
64QAM	836.5	20525	10	25	12	21.19
64QAM	836.5	20525	10	25	25	21.09
64QAM	836.5	20525	10	50	0	21.12
64QAM	844	20600	10	1	0	22.02
64QAM	844	20600	10	1	25	22.62
64QAM	844	20600	10	1	49	22.21
64QAM	844	20600	10	25	0	21.28
64QAM	844	20600	10	25	12	21.26
64QAM	844	20600	10	25	25	21.10
64QAM	844	20600	10	50	0	21.20

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	1.070	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.070	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.070	Fig.3
5	QPSK	825.5	20415	3	15	0	2.670	Fig.4
5	QPSK	836.5	20525	3	15	0	2.670	Fig.5
5	QPSK	847.5	20635	3	15	0	2.670	Fig.6
5	QPSK	826.5	20425	5	25	0	4.470	Fig.7
5	QPSK	836.5	20525	5	25	0	4.450	Fig.8
5	QPSK	846.5	20625	5	25	0	4.460	Fig.9
5	QPSK	829	20450	10	50	0	8.940	Fig.10
5	QPSK	836.5	20525	10	50	0	8.920	Fig.11
5	QPSK	844	20600	10	50	0	8.910	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	1.070	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.080	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.080	Fig.15
5	16QAM	825.5	20415	3	15	0	2.670	Fig.16
5	16QAM	836.5	20525	3	15	0	2.670	Fig.17
5	16QAM	847.5	20635	3	15	0	2.670	Fig.18
5	16QAM	826.5	20425	5	25	0	4.470	Fig.19
5	16QAM	836.5	20525	5	25	0	4.460	Fig.20
5	16QAM	846.5	20625	5	25	0	4.460	Fig.21
5	16QAM	829	20450	10	50	0	8.930	Fig.22
5	16QAM	836.5	20525	10	50	0	8.900	Fig.23
5	16QAM	844	20600	10	50	0	8.930	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	1.070	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.070	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.070	Fig.27
5	64QAM	825.5	20415	3	15	0	2.670	Fig.28
5	64QAM	836.5	20525	3	15	0	2.670	Fig.29
5	64QAM	847.5	20635	3	15	0	2.670	Fig.30
5	64QAM	826.5	20425	5	25	0	4.460	Fig.31
5	64QAM	836.5	20525	5	25	0	4.460	Fig.32
5	64QAM	846.5	20625	5	25	0	4.460	Fig.33
5	64QAM	829	20450	10	50	0	8.940	Fig.34
5	64QAM	836.5	20525	10	50	0	8.910	Fig.35
5	64QAM	844	20600	10	50	0	8.930	Fig.36

Test Mode: QPSK

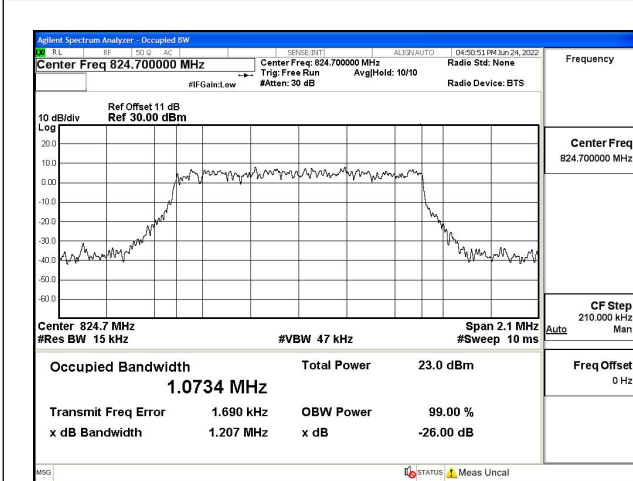


Fig.1

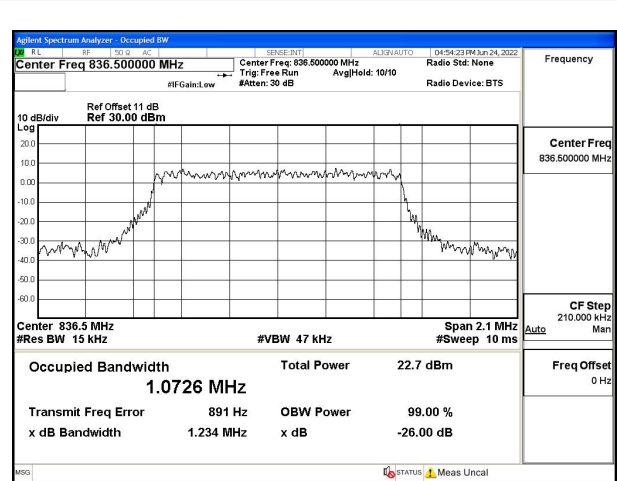


Fig.2

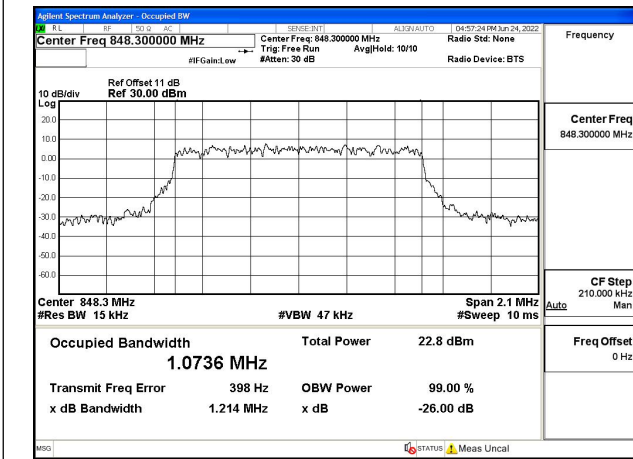


Fig.3

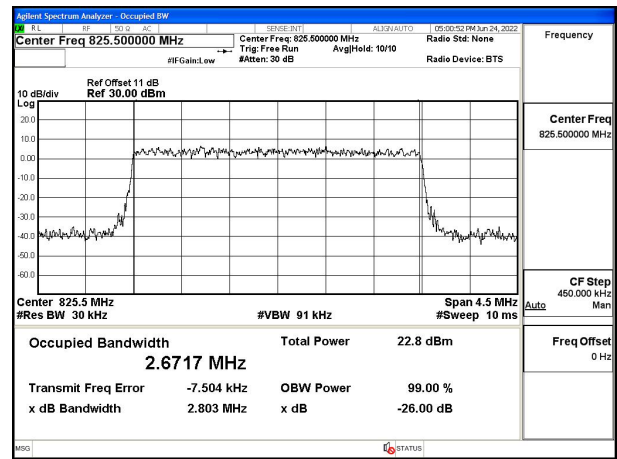


Fig.4

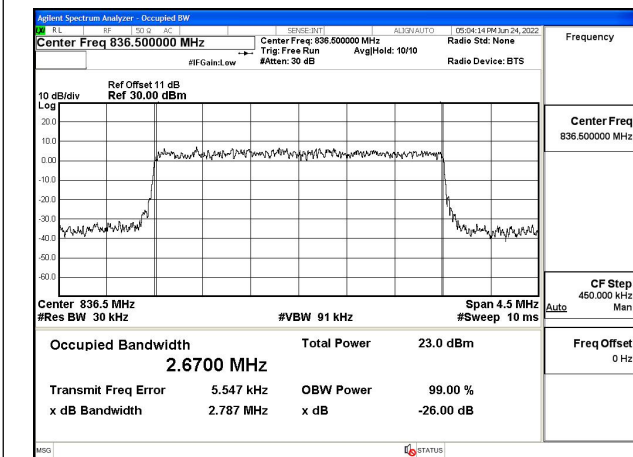


Fig.5

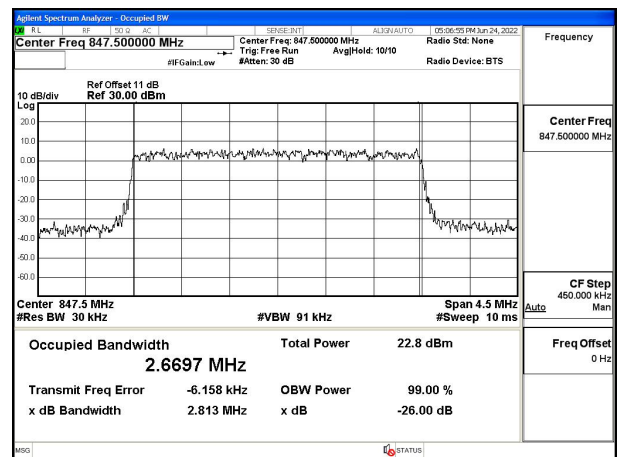


Fig.6

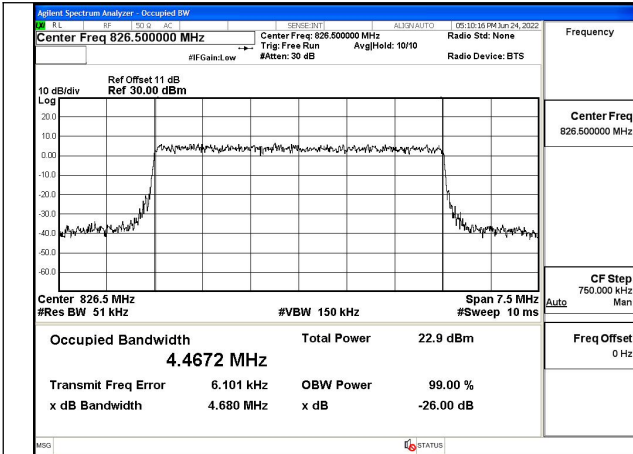


Fig.7

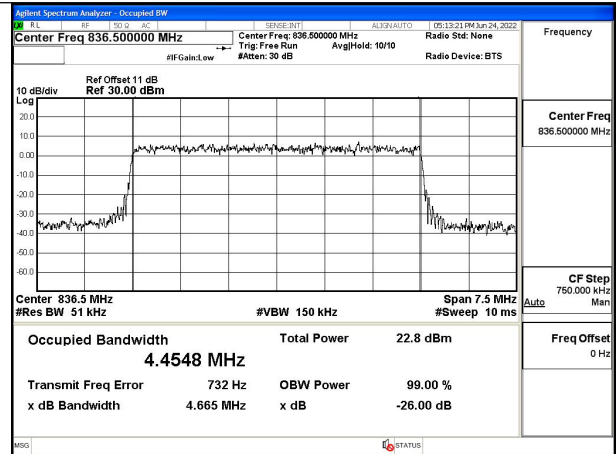


Fig.8

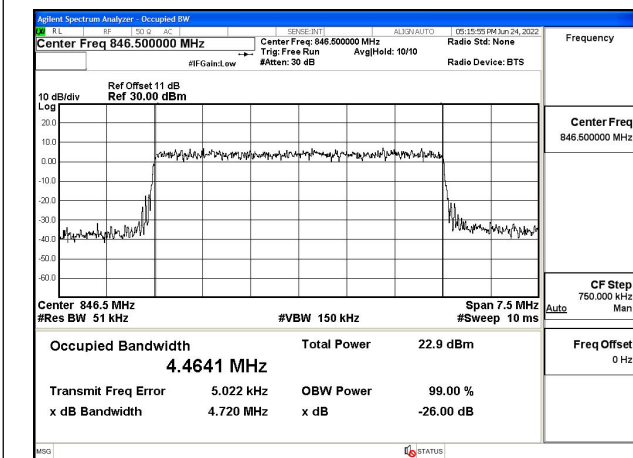


Fig.9

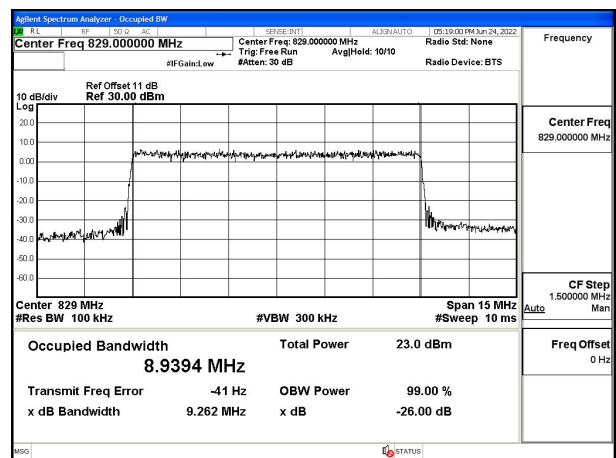


Fig.10

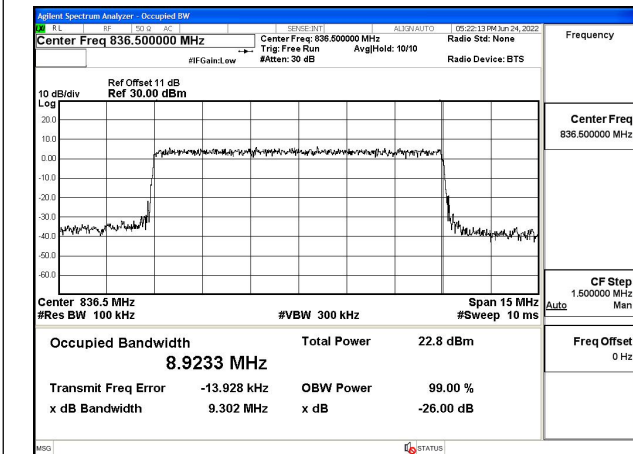


Fig.11

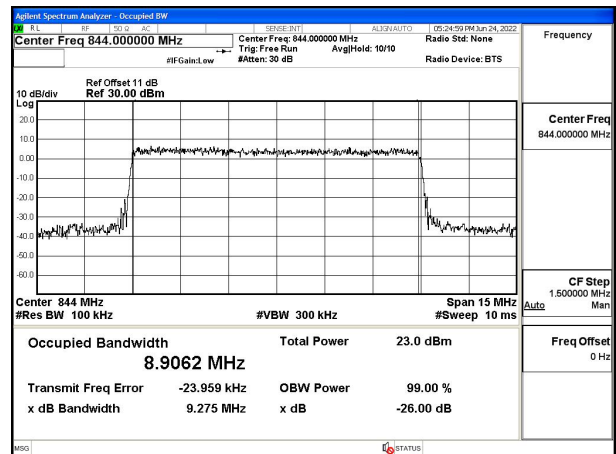


Fig.12

Test Mode: 16QAM

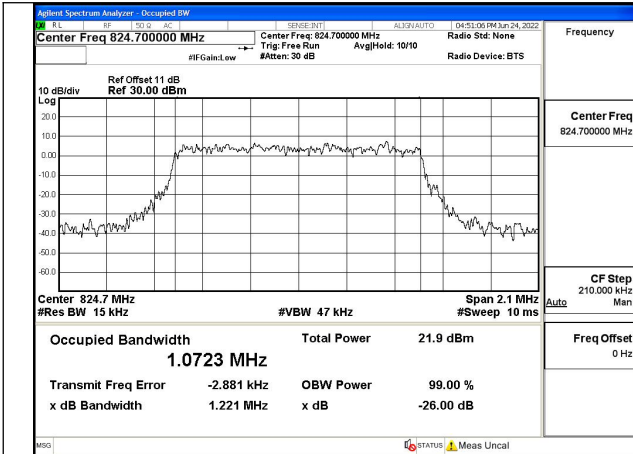


Fig.13

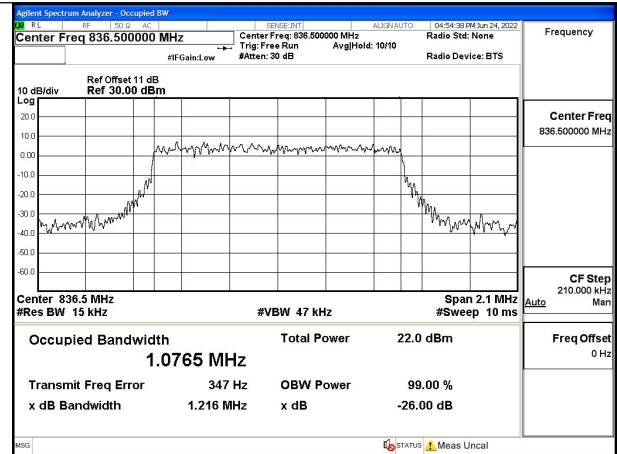


Fig.14

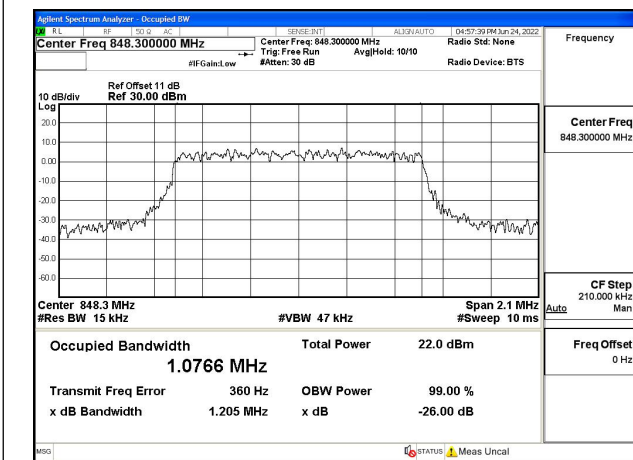


Fig.15

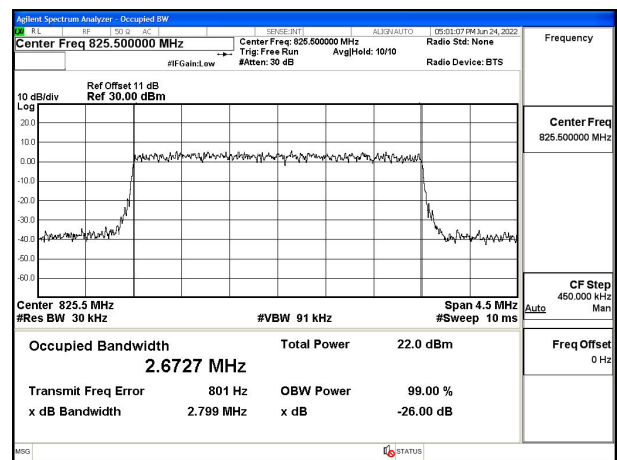


Fig.16

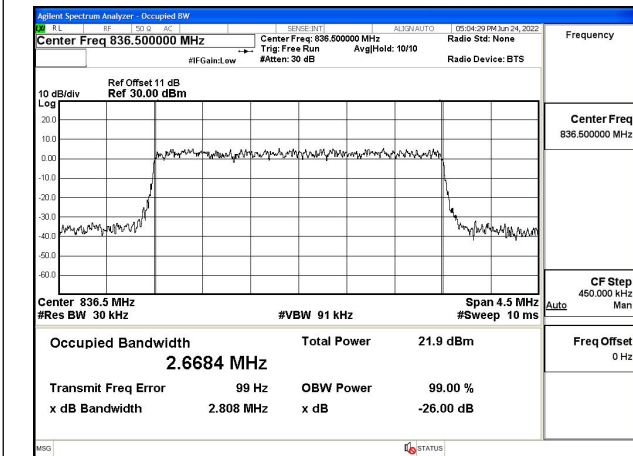


Fig.17

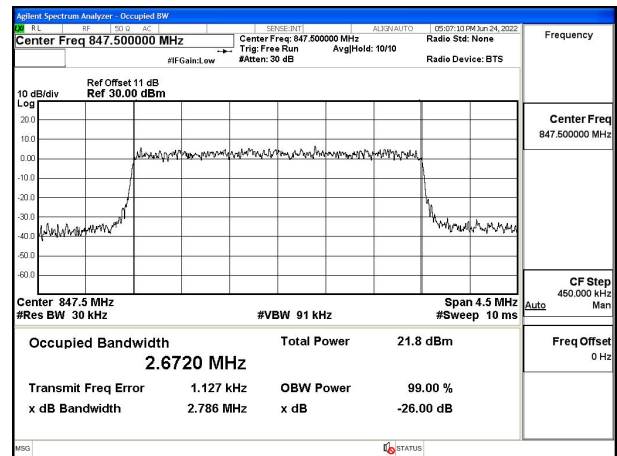


Fig.18

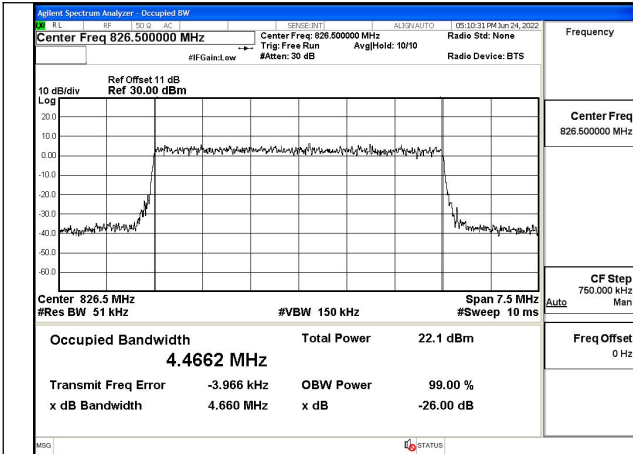


Fig.19

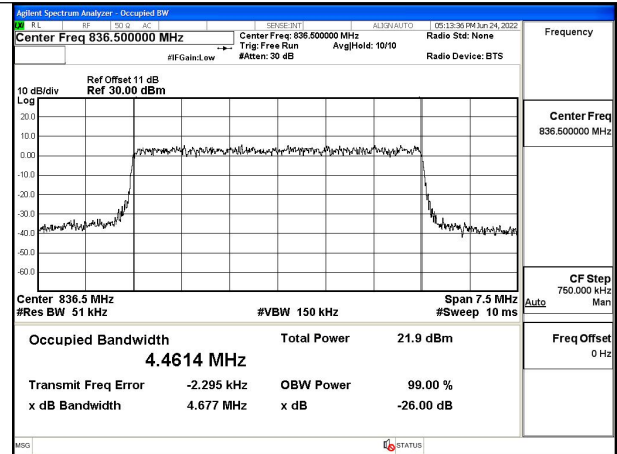


Fig.20

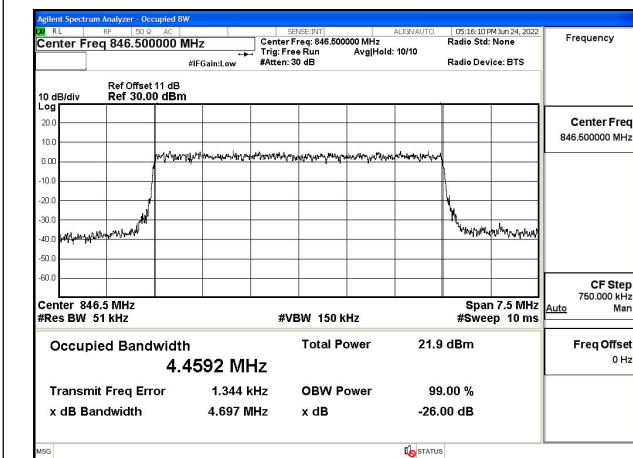


Fig.21

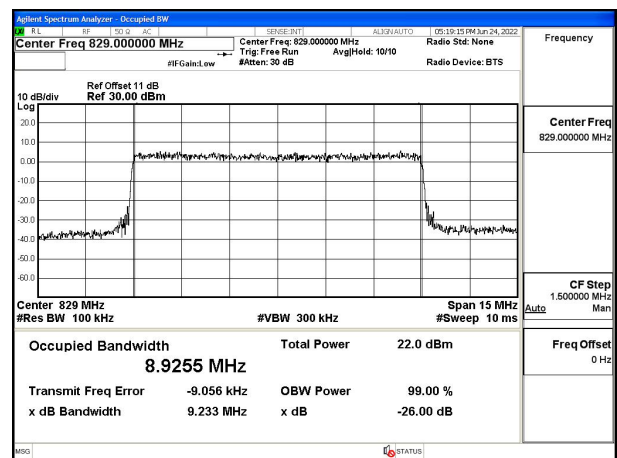


Fig.22

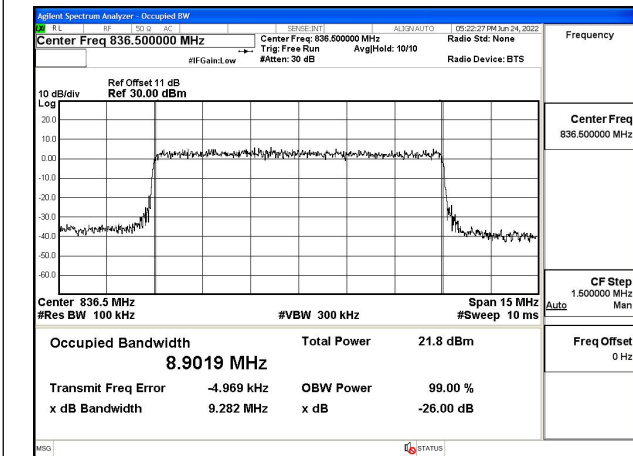


Fig.23

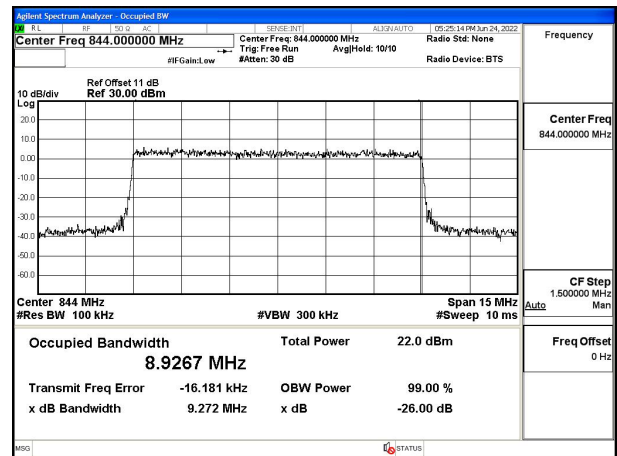


Fig.24

Test Mode: 64QAM

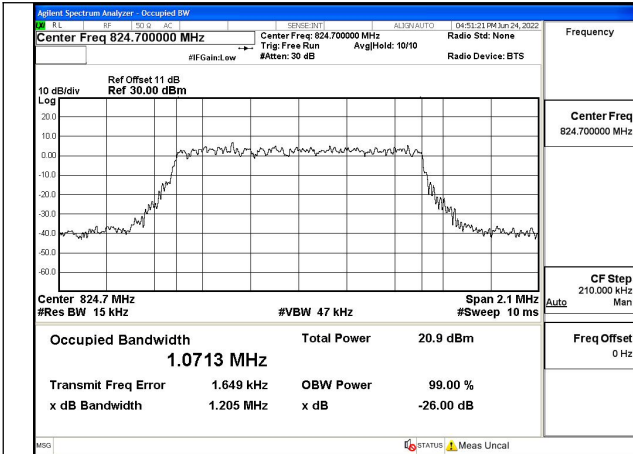


Fig.25

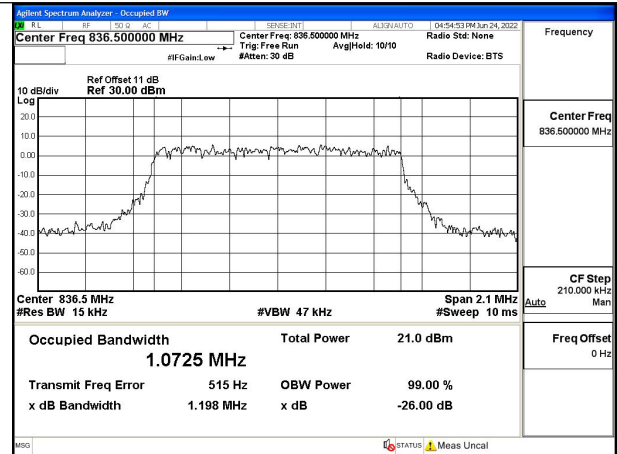


Fig.26

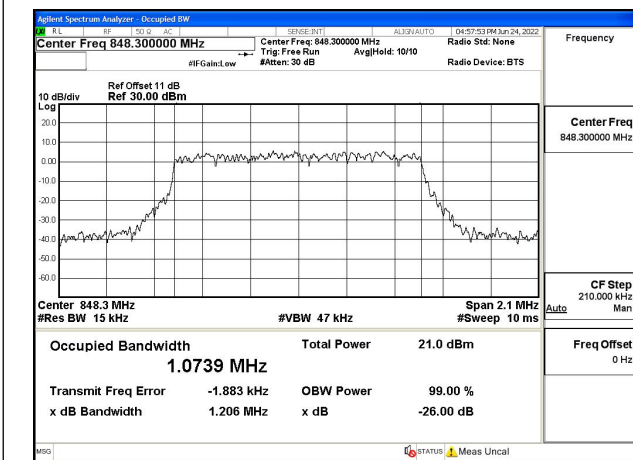


Fig.27

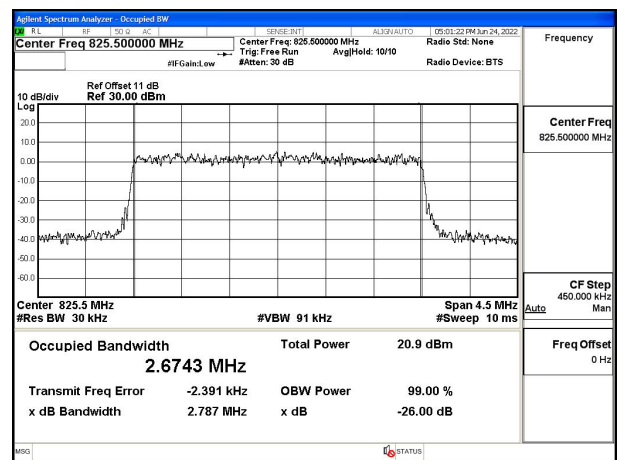


Fig.28

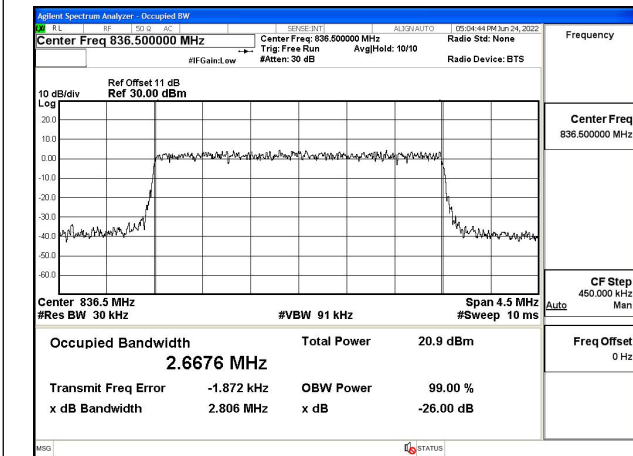


Fig.29

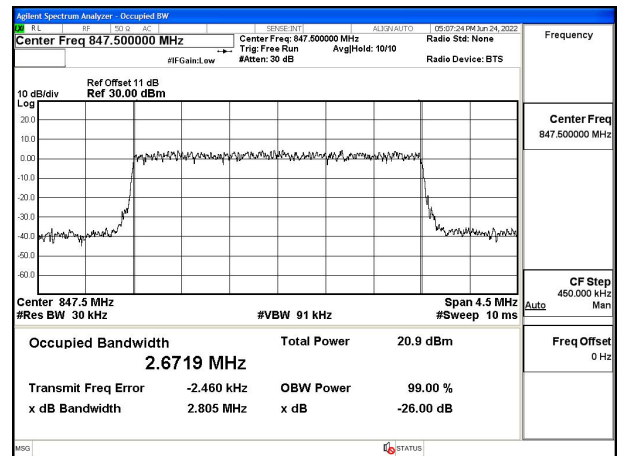


Fig.30

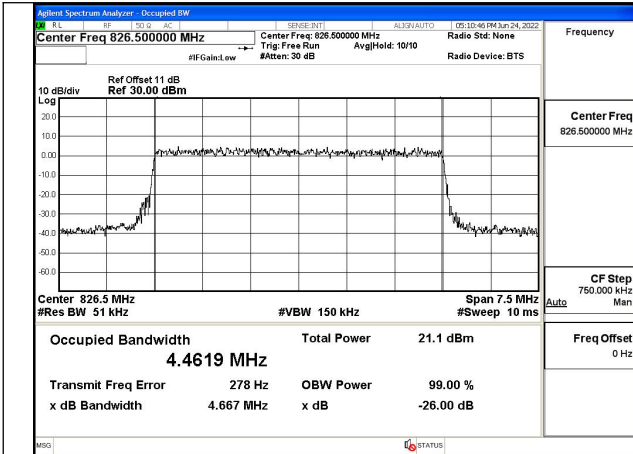


Fig.31

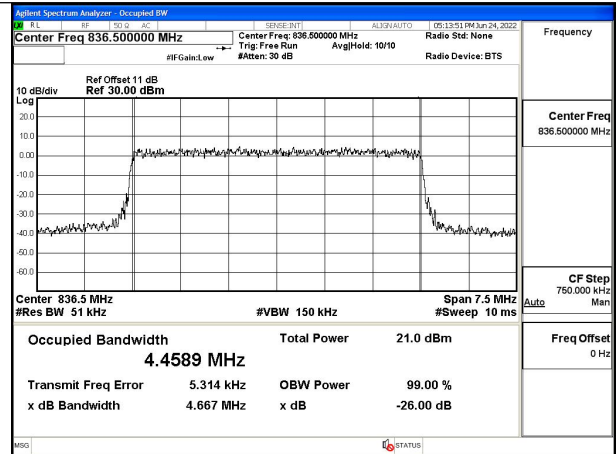


Fig.32

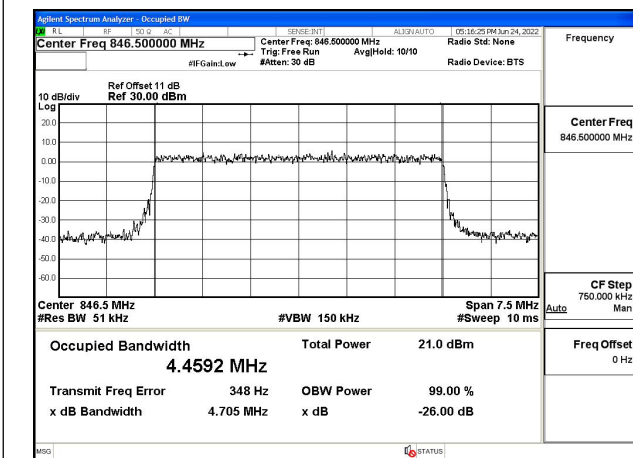


Fig.33

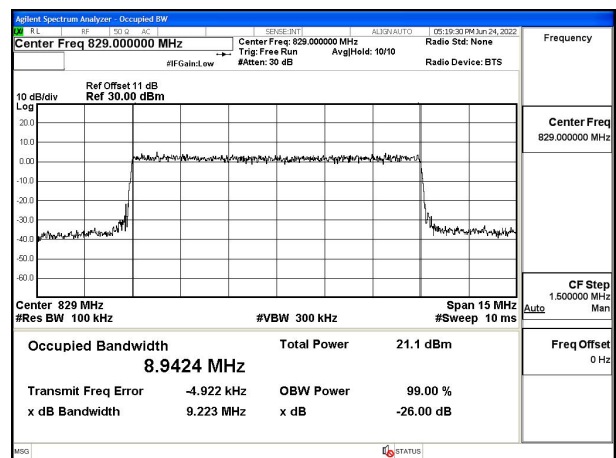


Fig.34

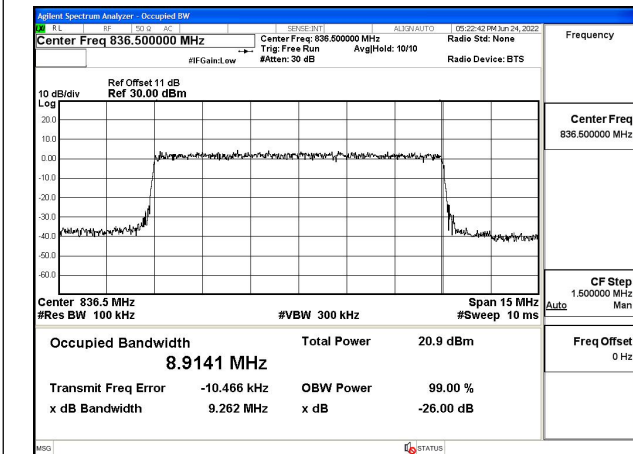


Fig.35

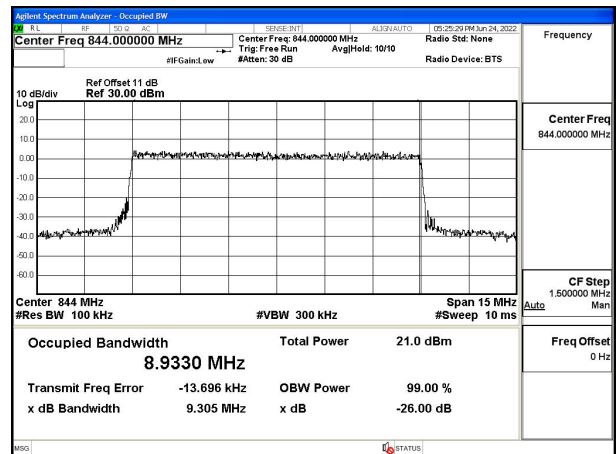


Fig.36

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	1.210	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.230	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.210	Fig.3
5	QPSK	825.5	20415	3	15	0	2.800	Fig.4
5	QPSK	836.5	20525	3	15	0	2.790	Fig.5
5	QPSK	847.5	20635	3	15	0	2.810	Fig.6
5	QPSK	826.5	20425	5	25	0	4.680	Fig.7
5	QPSK	836.5	20525	5	25	0	4.660	Fig.8
5	QPSK	846.5	20625	5	25	0	4.720	Fig.9
5	QPSK	829	20450	10	50	0	9.260	Fig.10
5	QPSK	836.5	20525	10	50	0	9.300	Fig.11
5	QPSK	844	20600	10	50	0	9.280	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	1.220	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.220	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.210	Fig.15
5	16QAM	825.5	20415	3	15	0	2.800	Fig.16
5	16QAM	836.5	20525	3	15	0	2.810	Fig.17
5	16QAM	847.5	20635	3	15	0	2.790	Fig.18
5	16QAM	826.5	20425	5	25	0	4.660	Fig.19
5	16QAM	836.5	20525	5	25	0	4.680	Fig.20
5	16QAM	846.5	20625	5	25	0	4.700	Fig.21
5	16QAM	829	20450	10	50	0	9.230	Fig.22
5	16QAM	836.5	20525	10	50	0	9.280	Fig.23
5	16QAM	844	20600	10	50	0	9.270	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	1.200	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.200	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.210	Fig.27
5	64QAM	825.5	20415	3	15	0	2.790	Fig.28
5	64QAM	836.5	20525	3	15	0	2.810	Fig.29
5	64QAM	847.5	20635	3	15	0	2.800	Fig.30
5	64QAM	826.5	20425	5	25	0	4.670	Fig.31
5	64QAM	836.5	20525	5	25	0	4.670	Fig.32
5	64QAM	846.5	20625	5	25	0	4.710	Fig.33
5	64QAM	829	20450	10	50	0	9.220	Fig.34
5	64QAM	836.5	20525	10	50	0	9.260	Fig.35
5	64QAM	844	20600	10	50	0	9.300	Fig.36

Test Mode: QPSK

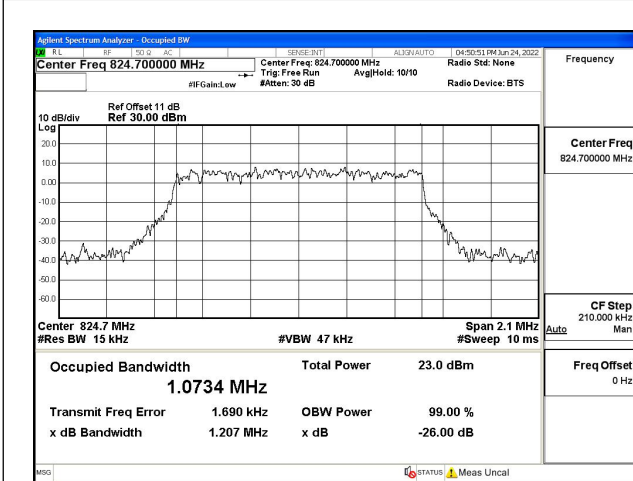


Fig.1

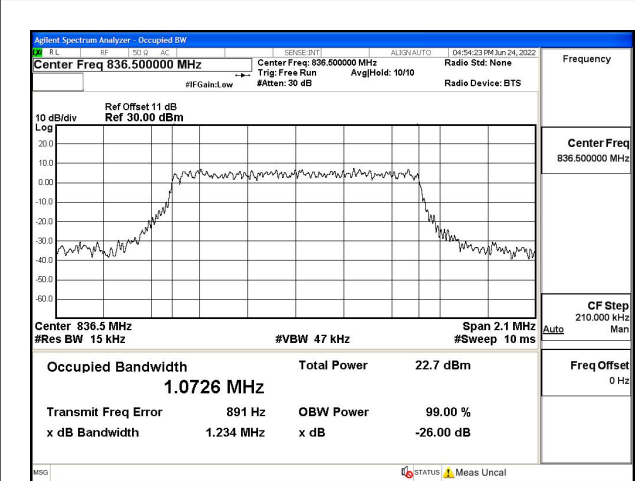


Fig.2

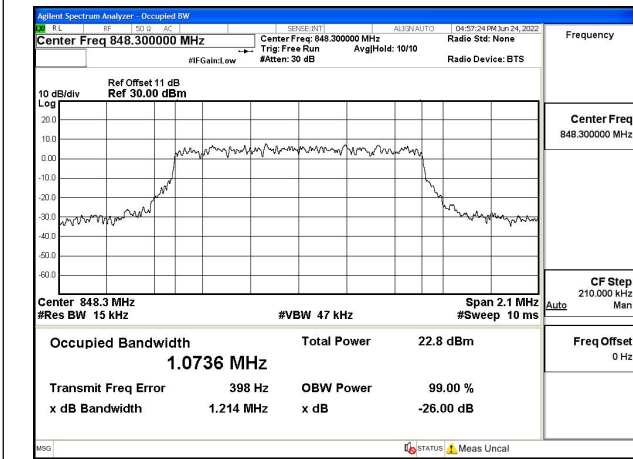


Fig.3

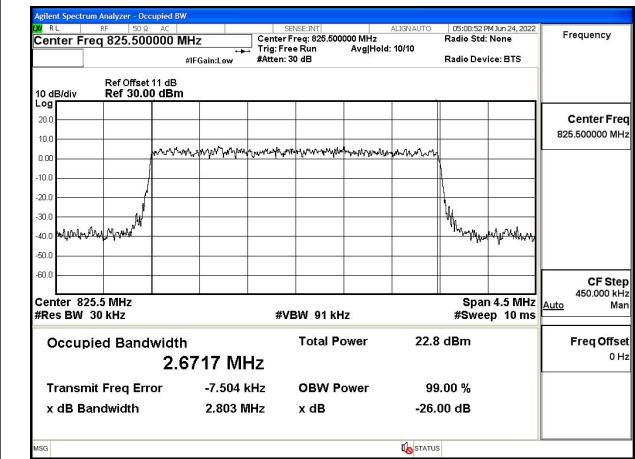


Fig.4

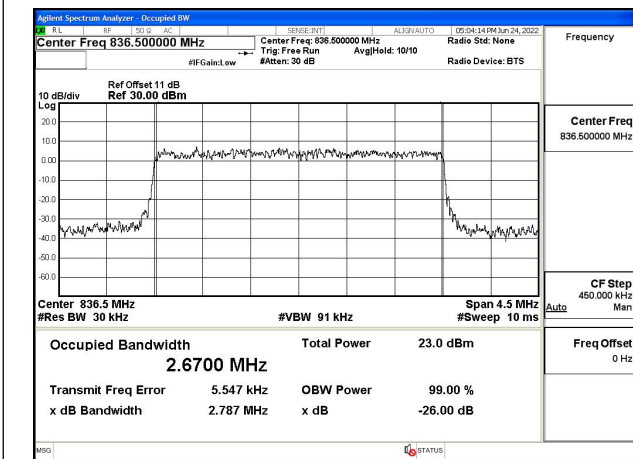


Fig.5

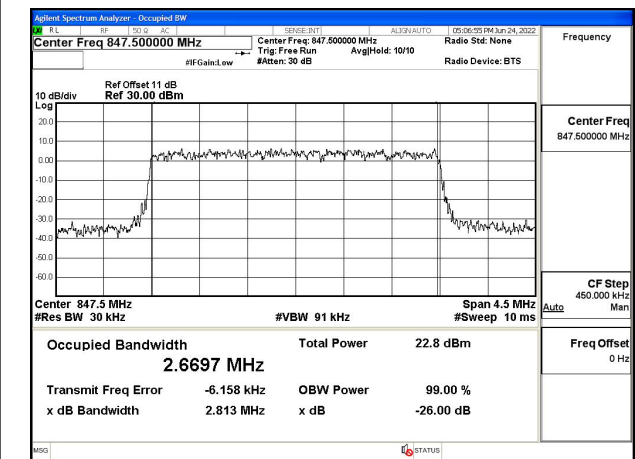


Fig.6