

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	22.44
QPSK	699.7	23017	1.4	1	3	23.74
QPSK	699.7	23017	1.4	1	5	23.47
QPSK	699.7	23017	1.4	3	0	23.68
QPSK	699.7	23017	1.4	3	1	23.70
QPSK	699.7	23017	1.4	3	3	23.83
QPSK	699.7	23017	1.4	6	0	22.98
QPSK	707.5	23095	1.4	1	0	23.64
QPSK	707.5	23095	1.4	1	3	23.86
QPSK	707.5	23095	1.4	1	5	23.68
QPSK	707.5	23095	1.4	3	0	23.78
QPSK	707.5	23095	1.4	3	1	23.88
QPSK	707.5	23095	1.4	3	3	23.76
QPSK	707.5	23095	1.4	6	0	22.68
QPSK	715.3	23173	1.4	1	0	23.85
QPSK	715.3	23173	1.4	1	3	23.83
QPSK	715.3	23173	1.4	1	5	23.94
QPSK	715.3	23173	1.4	3	0	23.75
QPSK	715.3	23173	1.4	3	1	23.83
QPSK	715.3	23173	1.4	3	3	23.79
QPSK	715.3	23173	1.4	6	0	22.81

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	23.19
16QAM	699.7	23017	1.4	1	3	23.27
16QAM	699.7	23017	1.4	1	5	23.17
16QAM	699.7	23017	1.4	3	0	23.39
16QAM	699.7	23017	1.4	3	1	23.17
16QAM	699.7	23017	1.4	3	3	23.33
16QAM	699.7	23017	1.4	6	0	22.02
16QAM	707.5	23095	1.4	1	0	23.30
16QAM	707.5	23095	1.4	1	3	23.47
16QAM	707.5	23095	1.4	1	5	22.91
16QAM	707.5	23095	1.4	3	0	23.03
16QAM	707.5	23095	1.4	3	1	23.12
16QAM	707.5	23095	1.4	3	3	23.10
16QAM	707.5	23095	1.4	6	0	21.54
16QAM	715.3	23173	1.4	1	0	22.32
16QAM	715.3	23173	1.4	1	3	22.64
16QAM	715.3	23173	1.4	1	5	22.37
16QAM	715.3	23173	1.4	3	0	22.97
16QAM	715.3	23173	1.4	3	1	22.99
16QAM	715.3	23173	1.4	3	3	23.07
16QAM	715.3	23173	1.4	6	0	21.56
64QAM	699.7	23017	1.4	1	0	22.29
64QAM	699.7	23017	1.4	1	3	21.96
64QAM	699.7	23017	1.4	1	5	22.22
64QAM	699.7	23017	1.4	3	0	21.99
64QAM	699.7	23017	1.4	3	1	21.81
64QAM	699.7	23017	1.4	3	3	21.64
64QAM	699.7	23017	1.4	6	0	20.59
64QAM	707.5	23095	1.4	1	0	21.36
64QAM	707.5	23095	1.4	1	3	21.96
64QAM	707.5	23095	1.4	1	5	21.63
64QAM	707.5	23095	1.4	3	0	21.65
64QAM	707.5	23095	1.4	3	1	21.75
64QAM	707.5	23095	1.4	3	3	21.52
64QAM	707.5	23095	1.4	6	0	20.50
64QAM	715.3	23173	1.4	1	0	21.95
64QAM	715.3	23173	1.4	1	3	22.08
64QAM	715.3	23173	1.4	1	5	21.97
64QAM	715.3	23173	1.4	3	0	22.08
64QAM	715.3	23173	1.4	3	1	21.64
64QAM	715.3	23173	1.4	3	3	21.48
64QAM	715.3	23173	1.4	6	0	20.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.92
QPSK	700.5	23025	3	1	8	24.02
QPSK	700.5	23025	3	1	14	24.06
QPSK	700.5	23025	3	8	0	22.90
QPSK	700.5	23025	3	8	4	23.02
QPSK	700.5	23025	3	8	7	22.72
QPSK	700.5	23025	3	15	0	23.13
QPSK	707.5	23095	3	1	0	24.15
QPSK	707.5	23095	3	1	8	24.02
QPSK	707.5	23095	3	1	14	24.11
QPSK	707.5	23095	3	8	0	22.84
QPSK	707.5	23095	3	8	4	22.77
QPSK	707.5	23095	3	8	7	22.78
QPSK	707.5	23095	3	15	0	22.75
QPSK	714.5	23165	3	1	0	23.80
QPSK	714.5	23165	3	1	8	24.00
QPSK	714.5	23165	3	1	14	23.63
QPSK	714.5	23165	3	8	0	22.84
QPSK	714.5	23165	3	8	4	22.72
QPSK	714.5	23165	3	8	7	22.88
QPSK	714.5	23165	3	15	0	22.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	23.27
16QAM	700.5	23025	3	1	8	23.45
16QAM	700.5	23025	3	1	14	22.76
16QAM	700.5	23025	3	8	0	22.10
16QAM	700.5	23025	3	8	4	22.07
16QAM	700.5	23025	3	8	7	21.88
16QAM	700.5	23025	3	15	0	22.42
16QAM	707.5	23095	3	1	0	23.00
16QAM	707.5	23095	3	1	8	23.16
16QAM	707.5	23095	3	1	14	23.20
16QAM	707.5	23095	3	8	0	22.05
16QAM	707.5	23095	3	8	4	22.11
16QAM	707.5	23095	3	8	7	21.91
16QAM	707.5	23095	3	15	0	21.83
16QAM	714.5	23165	3	1	0	23.27
16QAM	714.5	23165	3	1	8	23.39
16QAM	714.5	23165	3	1	14	23.77
16QAM	714.5	23165	3	8	0	22.20
16QAM	714.5	23165	3	8	4	22.14
16QAM	714.5	23165	3	8	7	22.10
16QAM	714.5	23165	3	15	0	22.15
64QAM	700.5	23025	3	1	0	22.13
64QAM	700.5	23025	3	1	8	21.66
64QAM	700.5	23025	3	1	14	22.03
64QAM	700.5	23025	3	8	0	20.47
64QAM	700.5	23025	3	8	4	20.49
64QAM	700.5	23025	3	8	7	19.97
64QAM	700.5	23025	3	15	0	20.62
64QAM	707.5	23095	3	1	0	22.06
64QAM	707.5	23095	3	1	8	21.75
64QAM	707.5	23095	3	1	14	21.87
64QAM	707.5	23095	3	8	0	20.38
64QAM	707.5	23095	3	8	4	20.22
64QAM	707.5	23095	3	8	7	20.39
64QAM	707.5	23095	3	15	0	20.48
64QAM	714.5	23165	3	1	0	22.27
64QAM	714.5	23165	3	1	8	22.21
64QAM	714.5	23165	3	1	14	21.43
64QAM	714.5	23165	3	8	0	20.50
64QAM	714.5	23165	3	8	4	20.65
64QAM	714.5	23165	3	8	7	20.29
64QAM	714.5	23165	3	15	0	20.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.72
QPSK	701.5	23035	5	1	12	23.50
QPSK	701.5	23035	5	1	24	23.74
QPSK	701.5	23035	5	12	0	22.84
QPSK	701.5	23035	5	12	7	22.71
QPSK	701.5	23035	5	12	13	22.67
QPSK	701.5	23035	5	25	0	22.70
QPSK	707.5	23095	5	1	0	23.86
QPSK	707.5	23095	5	1	12	23.81
QPSK	707.5	23095	5	1	24	23.76
QPSK	707.5	23095	5	12	0	22.88
QPSK	707.5	23095	5	12	7	22.79
QPSK	707.5	23095	5	12	13	22.73
QPSK	707.5	23095	5	25	0	22.75
QPSK	713.5	23155	5	1	0	23.84
QPSK	713.5	23155	5	1	12	23.81
QPSK	713.5	23155	5	1	24	24.00
QPSK	713.5	23155	5	12	0	22.76
QPSK	713.5	23155	5	12	7	22.76
QPSK	713.5	23155	5	12	13	22.61
QPSK	713.5	23155	5	25	0	22.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	23.56
16QAM	701.5	23035	5	1	12	23.13
16QAM	701.5	23035	5	1	24	23.17
16QAM	701.5	23035	5	12	0	21.94
16QAM	701.5	23035	5	12	7	21.85
16QAM	701.5	23035	5	12	13	21.74
16QAM	701.5	23035	5	25	0	21.59
16QAM	707.5	23095	5	1	0	23.10
16QAM	707.5	23095	5	1	12	23.25
16QAM	707.5	23095	5	1	24	23.49
16QAM	707.5	23095	5	12	0	21.93
16QAM	707.5	23095	5	12	7	21.91
16QAM	707.5	23095	5	12	13	21.85
16QAM	707.5	23095	5	25	0	21.78
16QAM	713.5	23155	5	1	0	22.62
16QAM	713.5	23155	5	1	12	22.71
16QAM	713.5	23155	5	1	24	22.75
16QAM	713.5	23155	5	12	0	22.07
16QAM	713.5	23155	5	12	7	22.19
16QAM	713.5	23155	5	12	13	21.81
16QAM	713.5	23155	5	25	0	22.25
64QAM	701.5	23035	5	1	0	22.04
64QAM	701.5	23035	5	1	12	21.87
64QAM	701.5	23035	5	1	24	22.03
64QAM	701.5	23035	5	12	0	20.64
64QAM	701.5	23035	5	12	7	20.44
64QAM	701.5	23035	5	12	13	20.35
64QAM	701.5	23035	5	25	0	20.30
64QAM	707.5	23095	5	1	0	21.67
64QAM	707.5	23095	5	1	12	21.71
64QAM	707.5	23095	5	1	24	21.54
64QAM	707.5	23095	5	12	0	20.42
64QAM	707.5	23095	5	12	7	20.34
64QAM	707.5	23095	5	12	13	20.35
64QAM	707.5	23095	5	25	0	20.33
64QAM	713.5	23155	5	1	0	22.39
64QAM	713.5	23155	5	1	12	22.16
64QAM	713.5	23155	5	1	24	21.69
64QAM	713.5	23155	5	12	0	20.59
64QAM	713.5	23155	5	12	7	20.64
64QAM	713.5	23155	5	12	13	20.58
64QAM	713.5	23155	5	25	0	20.76

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	24.20
QPSK	704	23060	10	1	25	24.05
QPSK	704	23060	10	1	49	24.02
QPSK	704	23060	10	25	0	22.84
QPSK	704	23060	10	25	12	22.81
QPSK	704	23060	10	25	25	22.90
QPSK	704	23060	10	50	0	22.87
QPSK	707.5	23095	10	1	0	23.93
QPSK	707.5	23095	10	1	25	24.05
QPSK	707.5	23095	10	1	49	23.95
QPSK	707.5	23095	10	25	0	22.81
QPSK	707.5	23095	10	25	12	22.79
QPSK	707.5	23095	10	25	25	23.02
QPSK	707.5	23095	10	50	0	22.86
QPSK	711	23130	10	1	0	23.73
QPSK	711	23130	10	1	25	23.84
QPSK	711	23130	10	1	49	23.73
QPSK	711	23130	10	25	0	22.88
QPSK	711	23130	10	25	12	22.94
QPSK	711	23130	10	25	25	22.73
QPSK	711	23130	10	50	0	22.80

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	23.14
16QAM	704	23060	10	1	25	23.10
16QAM	704	23060	10	1	49	22.64
16QAM	704	23060	10	25	0	21.90
16QAM	704	23060	10	25	12	22.44
16QAM	704	23060	10	25	25	21.93
16QAM	704	23060	10	50	0	22.18
16QAM	707.5	23095	10	1	0	22.95
16QAM	707.5	23095	10	1	25	22.47
16QAM	707.5	23095	10	1	49	22.75
16QAM	707.5	23095	10	25	0	22.07
16QAM	707.5	23095	10	25	12	22.06
16QAM	707.5	23095	10	25	25	22.09
16QAM	707.5	23095	10	50	0	21.91
16QAM	711	23130	10	1	0	23.58
16QAM	711	23130	10	1	25	23.39
16QAM	711	23130	10	1	49	23.18
16QAM	711	23130	10	25	0	21.82
16QAM	711	23130	10	25	12	21.77
16QAM	711	23130	10	25	25	22.05
16QAM	711	23130	10	50	0	21.70
64QAM	704	23060	10	1	0	21.87
64QAM	704	23060	10	1	25	22.88
64QAM	704	23060	10	1	49	21.99
64QAM	704	23060	10	25	0	20.22
64QAM	704	23060	10	25	12	20.79
64QAM	704	23060	10	25	25	20.37
64QAM	704	23060	10	50	0	20.75
64QAM	707.5	23095	10	1	0	21.90
64QAM	707.5	23095	10	1	25	22.21
64QAM	707.5	23095	10	1	49	22.64
64QAM	707.5	23095	10	25	0	20.30
64QAM	707.5	23095	10	25	12	20.31
64QAM	707.5	23095	10	25	25	20.32
64QAM	707.5	23095	10	50	0	20.53
64QAM	711	23130	10	1	0	21.95
64QAM	711	23130	10	1	25	21.51
64QAM	711	23130	10	1	49	21.82
64QAM	711	23130	10	25	0	20.34
64QAM	711	23130	10	25	12	20.29
64QAM	711	23130	10	25	25	20.49
64QAM	711	23130	10	50	0	20.40

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	QPSK	699.7	23017	1.4	6	0	1.076	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.076	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.075	Fig.3
12	QPSK	700.5	23025	3	15	0	2.679	Fig.4
12	QPSK	707.5	23095	3	15	0	2.679	Fig.5
12	QPSK	714.5	23165	3	15	0	2.675	Fig.6
12	QPSK	701.5	23035	5	25	0	4.469	Fig.7
12	QPSK	707.5	23095	5	25	0	4.463	Fig.8
12	QPSK	713.5	23155	5	25	0	4.470	Fig.9
12	QPSK	704	23060	10	50	0	8.919	Fig.10
12	QPSK	707.5	23095	10	50	0	8.917	Fig.11
12	QPSK	711	23130	10	50	0	8.901	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	16QAM	699.7	23017	1.4	6	0	1.074	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.081	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.075	Fig.15
12	16QAM	700.5	23025	3	15	0	2.671	Fig.16
12	16QAM	707.5	23095	3	15	0	2.666	Fig.17
12	16QAM	714.5	23165	3	15	0	2.681	Fig.18
12	16QAM	701.5	23035	5	25	0	4.442	Fig.19
12	16QAM	707.5	23095	5	25	0	4.448	Fig.20
12	16QAM	713.5	23155	5	25	0	4.458	Fig.21
12	16QAM	704	23060	10	50	0	8.905	Fig.22
12	16QAM	707.5	23095	10	50	0	8.929	Fig.23
12	16QAM	711	23130	10	50	0	8.921	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	64QAM	699.7	23017	1.4	6	0	1.074	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.077	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.074	Fig.27
12	64QAM	700.5	23025	3	15	0	2.676	Fig.28
12	64QAM	707.5	23095	3	15	0	2.682	Fig.29
12	64QAM	714.5	23165	3	15	0	2.676	Fig.30
12	64QAM	701.5	23035	5	25	0	4.419	Fig.31
12	64QAM	707.5	23095	5	25	0	4.445	Fig.32
12	64QAM	713.5	23155	5	25	0	4.458	Fig.33
12	64QAM	704	23060	10	50	0	8.919	Fig.34
12	64QAM	707.5	23095	10	50	0	8.917	Fig.35
12	64QAM	711	23130	10	50	0	8.902	Fig.36

Test Mode: QPSK

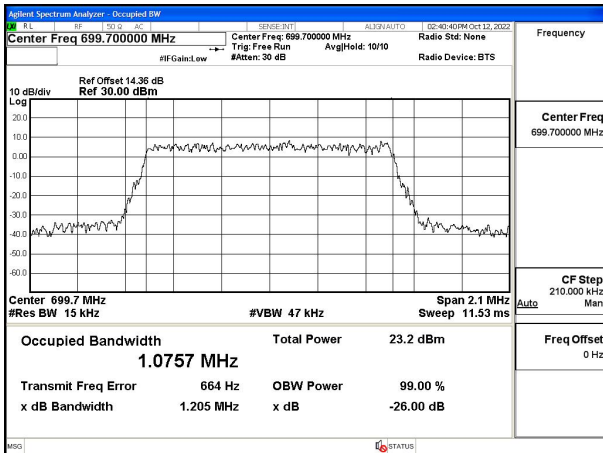


Fig.1

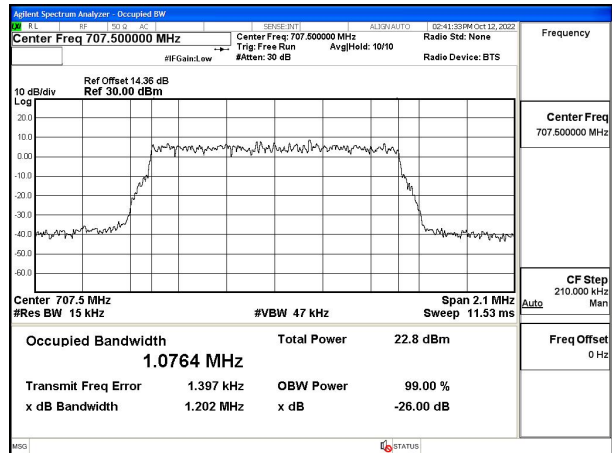


Fig.2

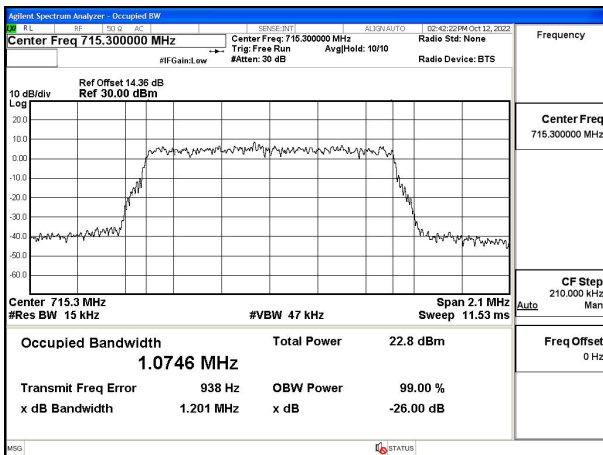


Fig.3

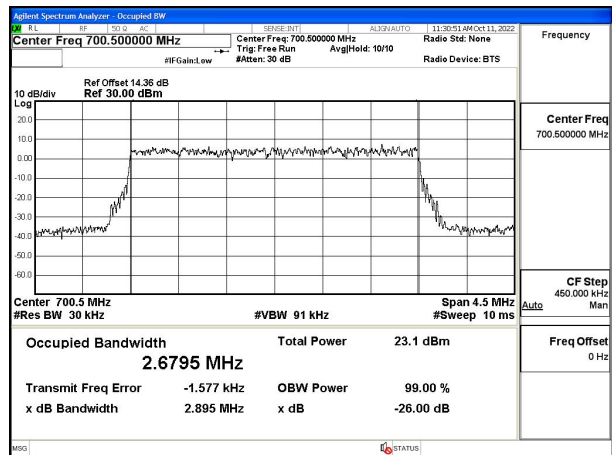


Fig.4

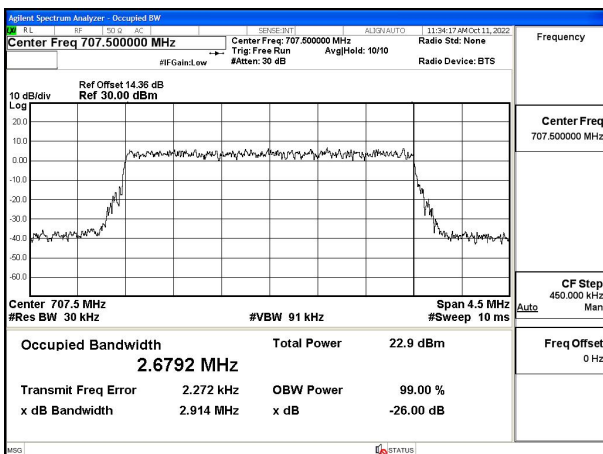


Fig.5

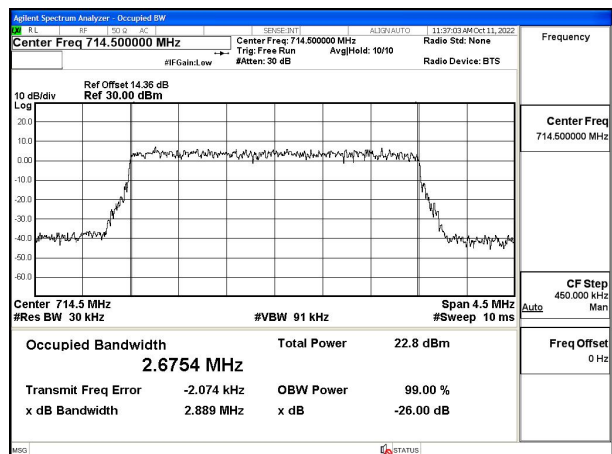


Fig.6

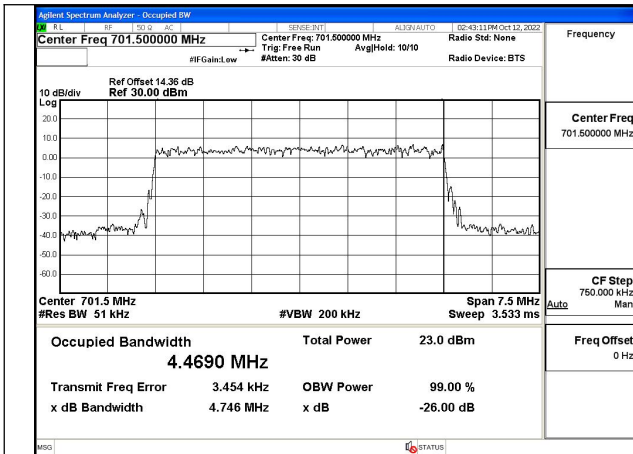


Fig.7

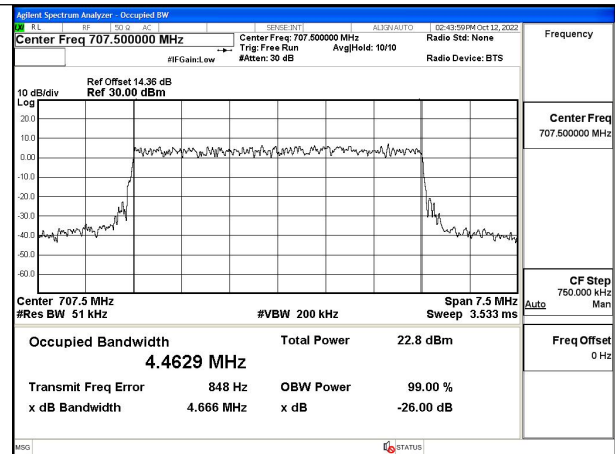


Fig.8

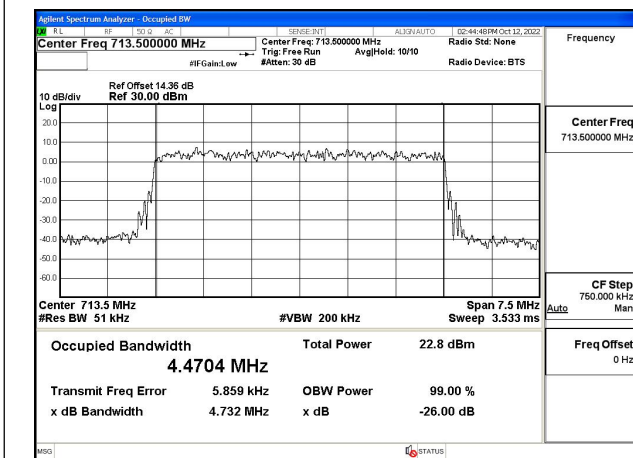


Fig.9

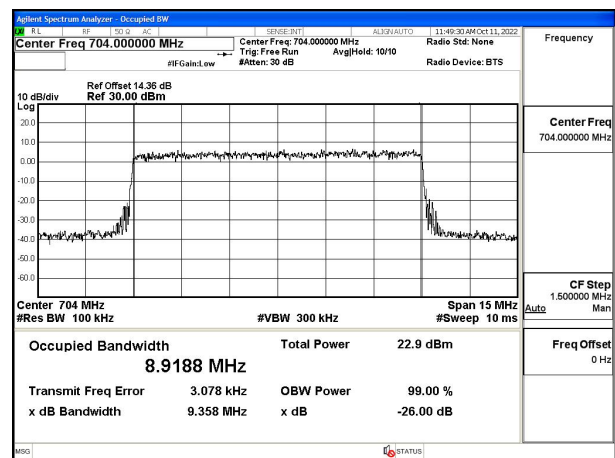


Fig.10

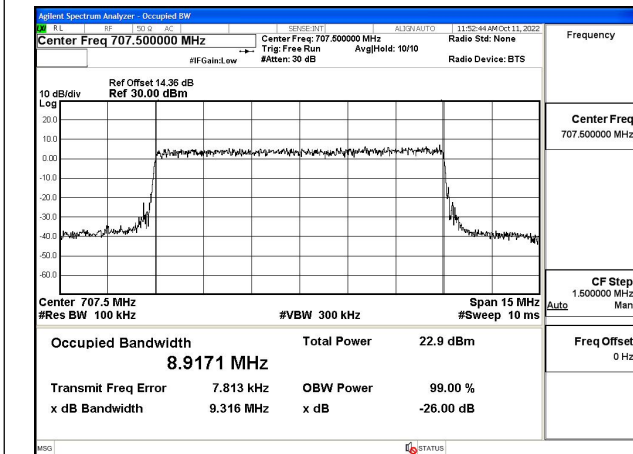


Fig.11

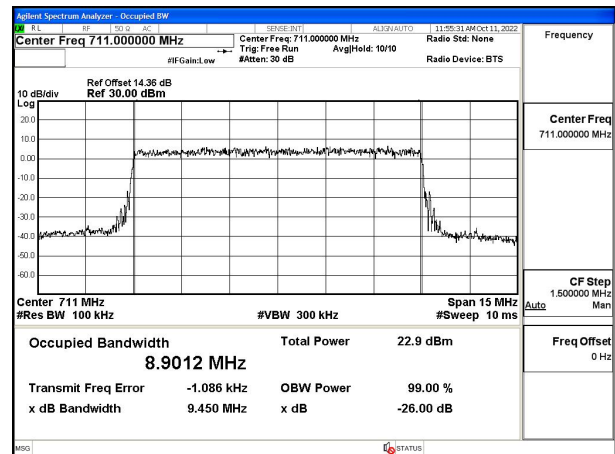


Fig.12

Test Mode: 16QAM

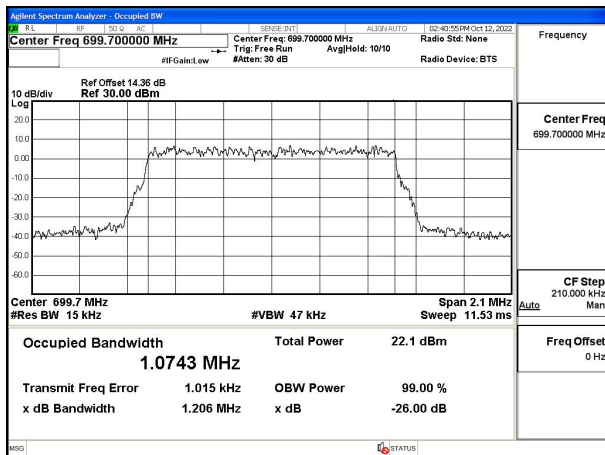


Fig.13

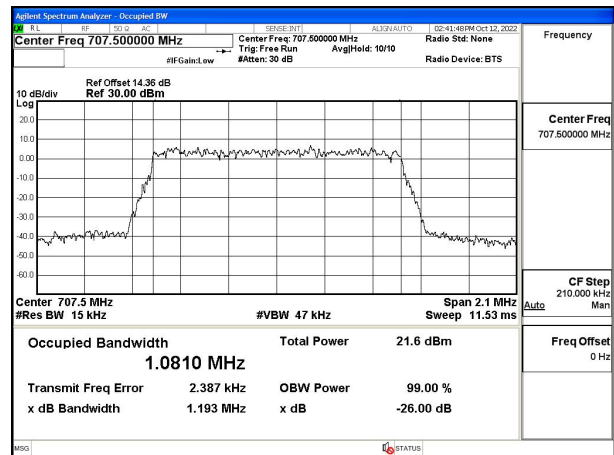


Fig.14

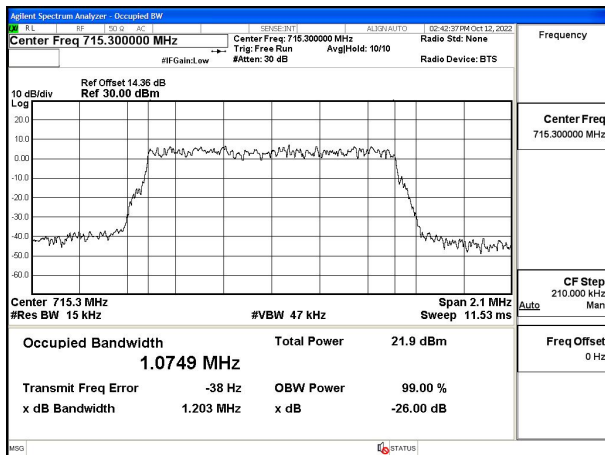


Fig.15

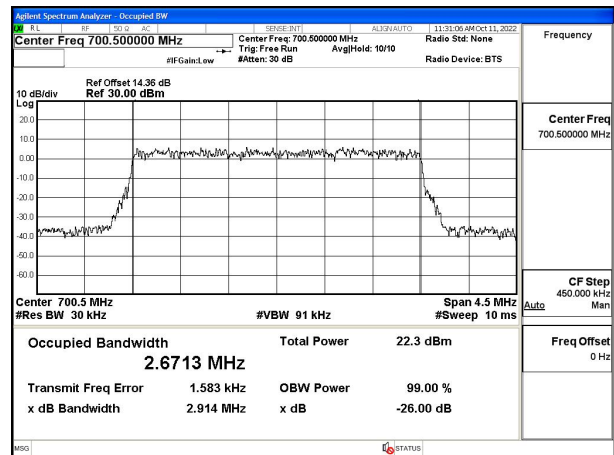


Fig.16

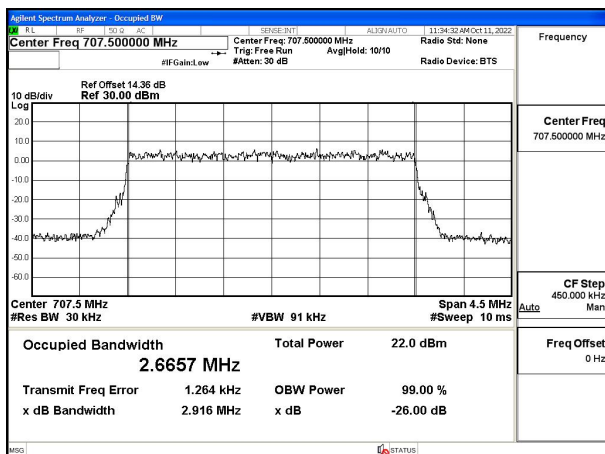


Fig.17

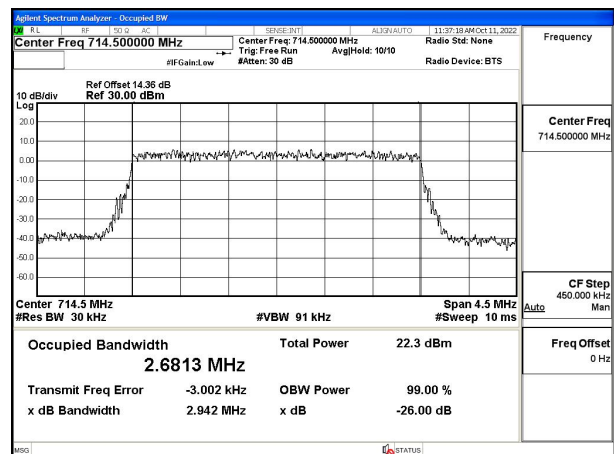


Fig.18

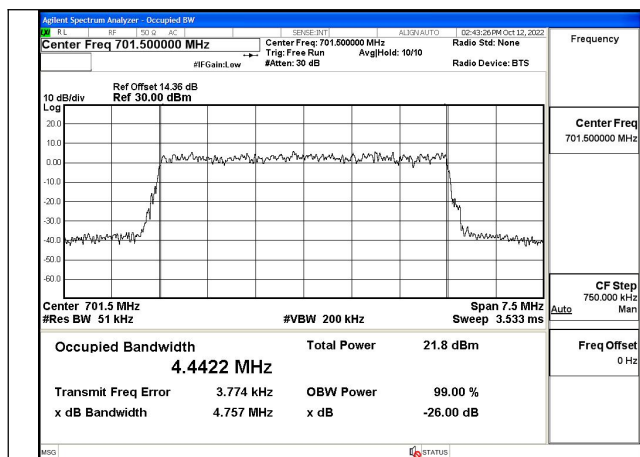


Fig.19

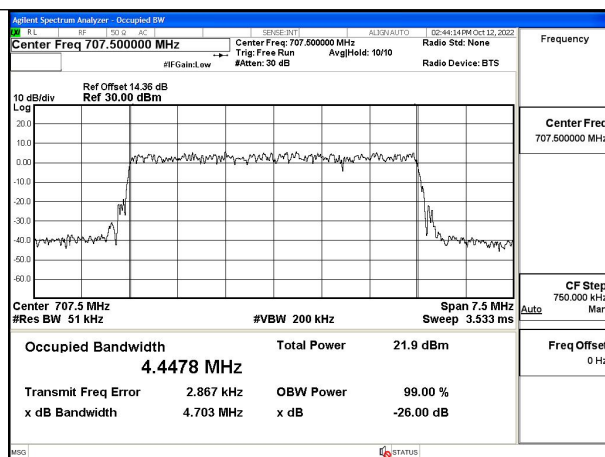


Fig.20

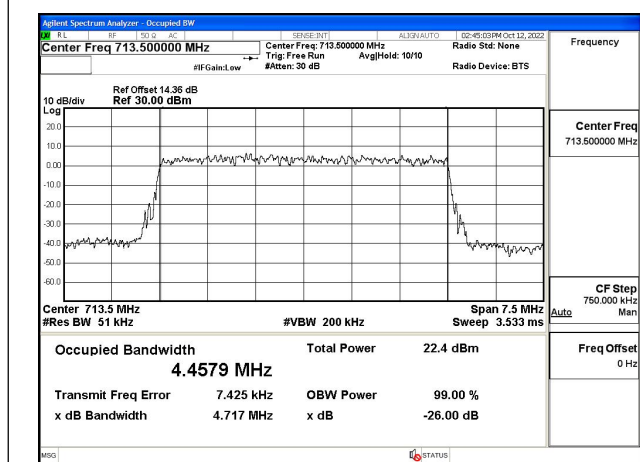


Fig.21

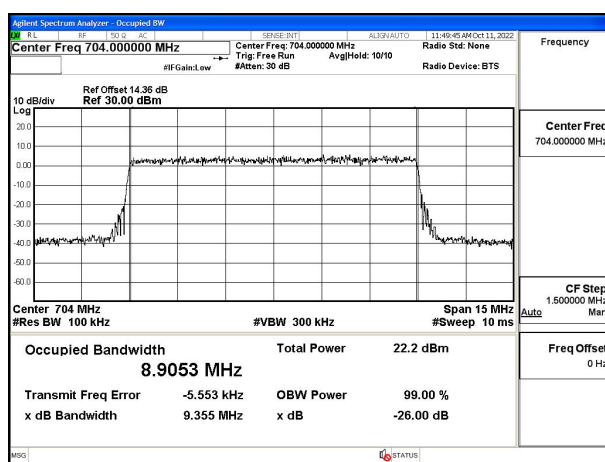


Fig.22

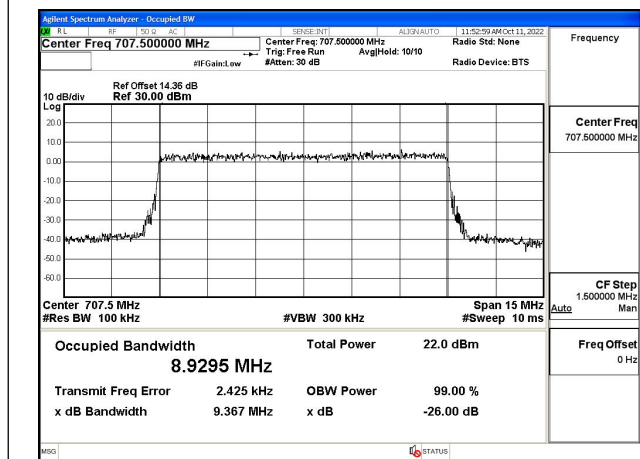


Fig.23

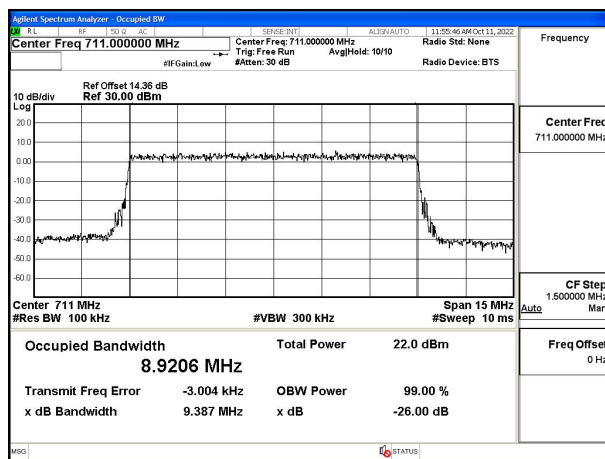


Fig.24

Test Mode: 64QAM

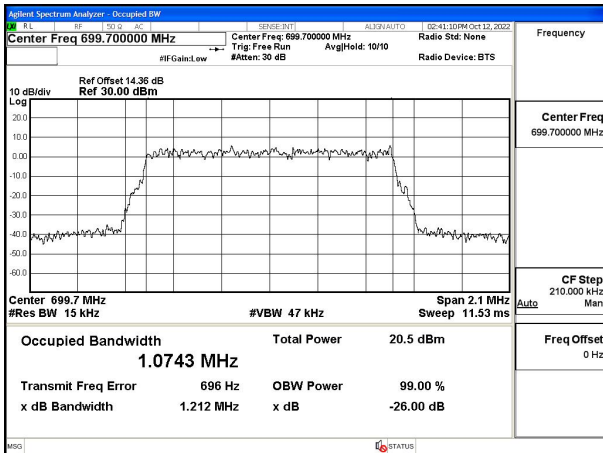


Fig.25

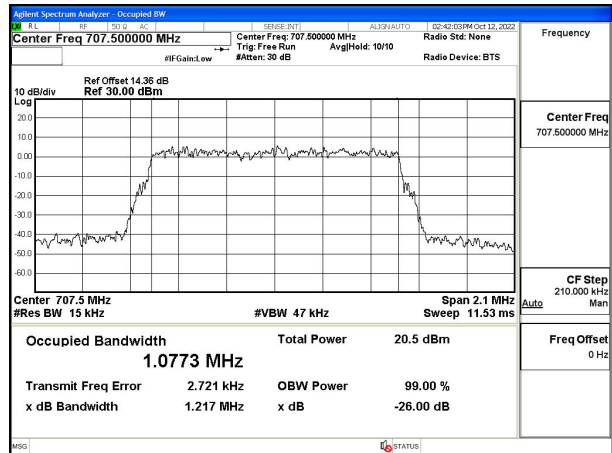


Fig.26

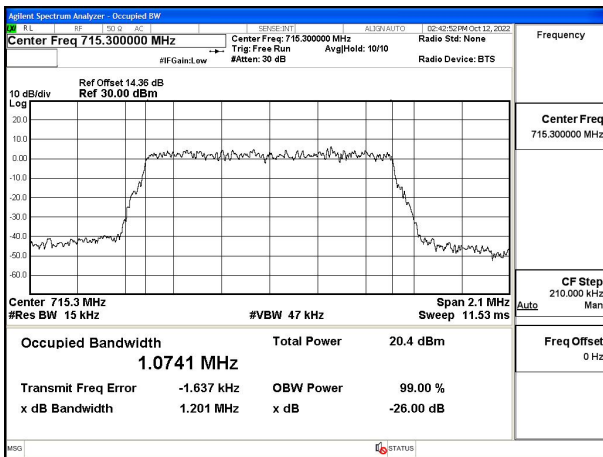


Fig.27

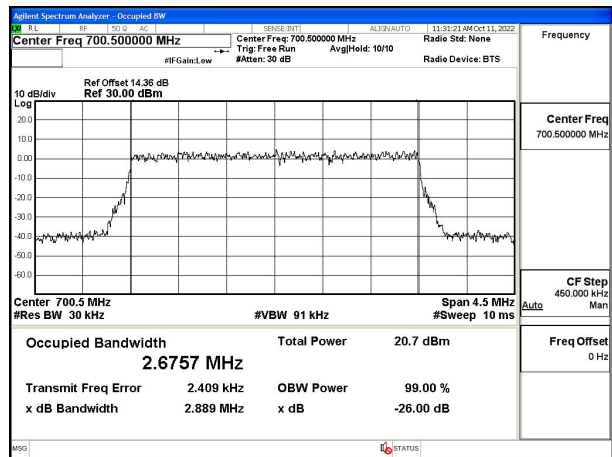


Fig.28

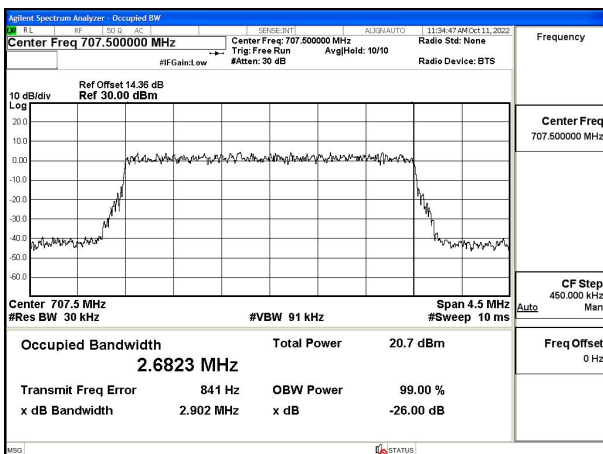


Fig.29

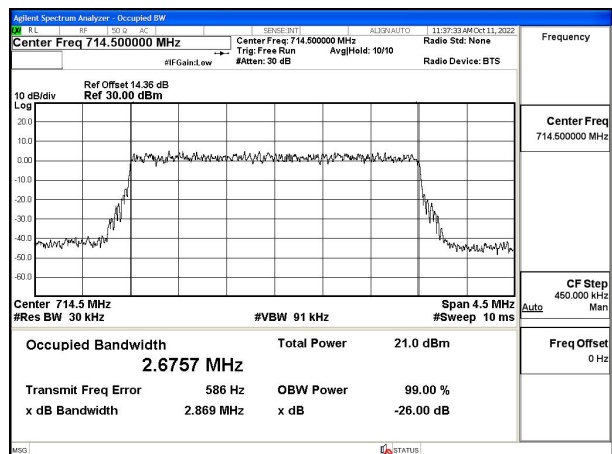


Fig.30

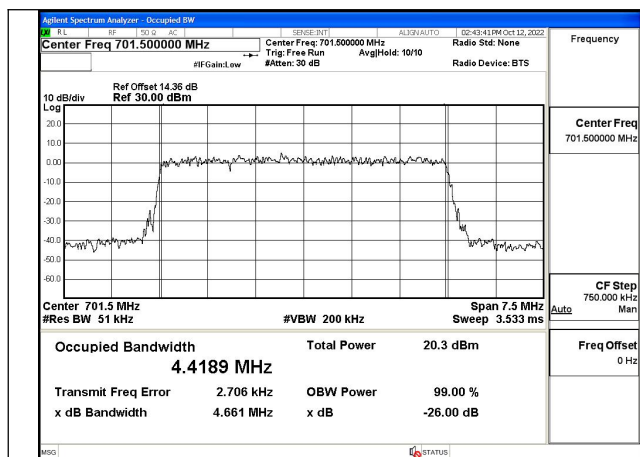


Fig.31

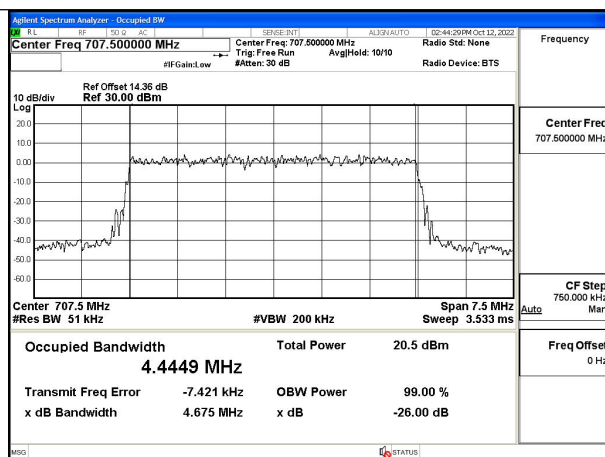


Fig.32

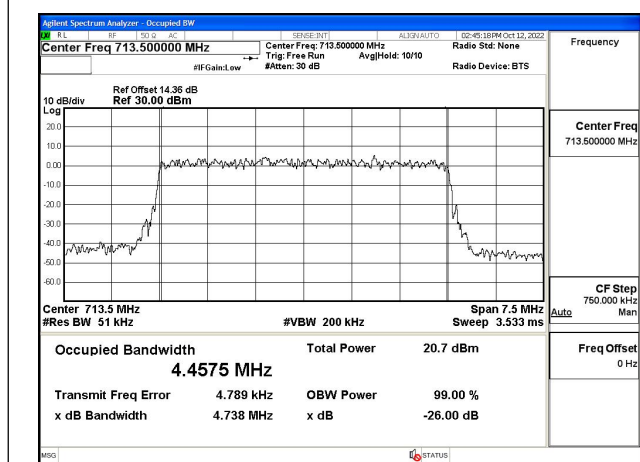


Fig.33

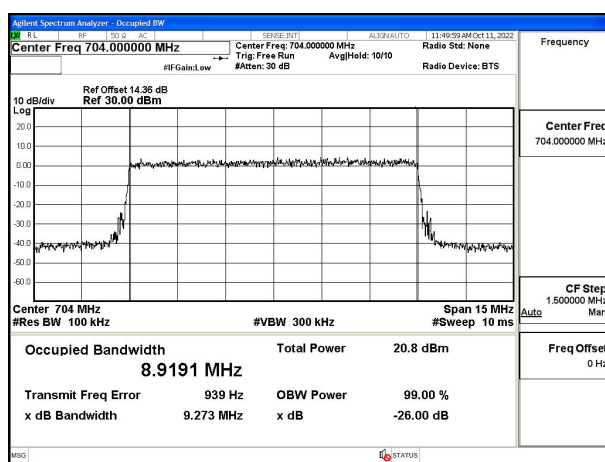


Fig.34

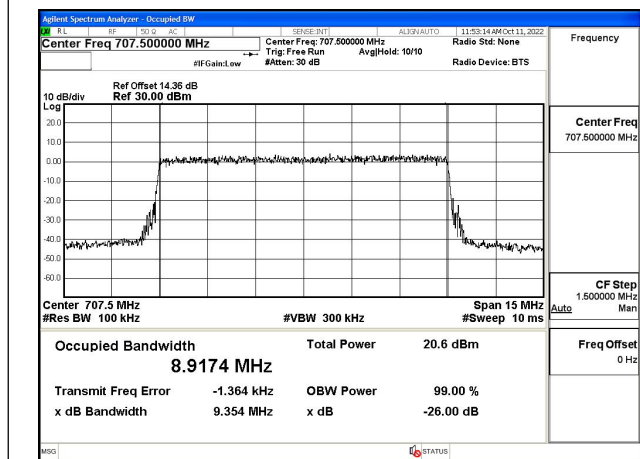


Fig.35

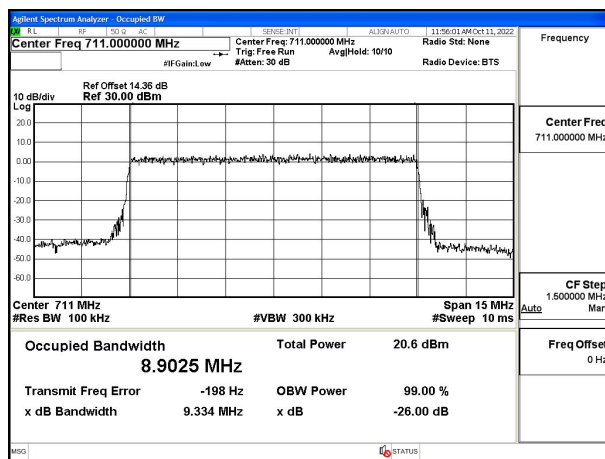


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	QPSK	699.7	23017	1.4	6	0	1.205	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.202	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.201	Fig.3
12	QPSK	700.5	23025	3	15	0	2.895	Fig.4
12	QPSK	707.5	23095	3	15	0	2.914	Fig.5
12	QPSK	714.5	23165	3	15	0	2.889	Fig.6
12	QPSK	701.5	23035	5	25	0	4.746	Fig.7
12	QPSK	707.5	23095	5	25	0	4.666	Fig.8
12	QPSK	713.5	23155	5	25	0	4.732	Fig.9
12	QPSK	704	23060	10	50	0	9.358	Fig.10
12	QPSK	707.5	23095	10	50	0	9.316	Fig.11
12	QPSK	711	23130	10	50	0	9.450	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	16QAM	699.7	23017	1.4	6	0	1.206	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.193	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.203	Fig.15
12	16QAM	700.5	23025	3	15	0	2.914	Fig.16
12	16QAM	707.5	23095	3	15	0	2.916	Fig.17
12	16QAM	714.5	23165	3	15	0	2.942	Fig.18
12	16QAM	701.5	23035	5	25	0	4.757	Fig.19
12	16QAM	707.5	23095	5	25	0	4.703	Fig.20
12	16QAM	713.5	23155	5	25	0	4.717	Fig.21
12	16QAM	704	23060	10	50	0	9.355	Fig.22
12	16QAM	707.5	23095	10	50	0	9.367	Fig.23
12	16QAM	711	23130	10	50	0	9.387	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	64QAM	699.7	23017	1.4	6	0	1.212	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.217	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.201	Fig.27
12	64QAM	700.5	23025	3	15	0	2.889	Fig.28
12	64QAM	707.5	23095	3	15	0	2.902	Fig.29
12	64QAM	714.5	23165	3	15	0	2.869	Fig.30
12	64QAM	701.5	23035	5	25	0	4.661	Fig.31
12	64QAM	707.5	23095	5	25	0	4.675	Fig.32
12	64QAM	713.5	23155	5	25	0	4.738	Fig.33
12	64QAM	704	23060	10	50	0	9.273	Fig.34
12	64QAM	707.5	23095	10	50	0	9.354	Fig.35
12	64QAM	711	23130	10	50	0	9.334	Fig.36

Test Mode: QPSK

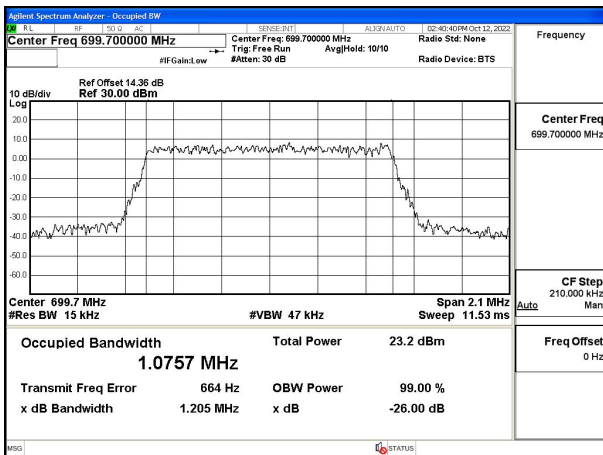


Fig.1

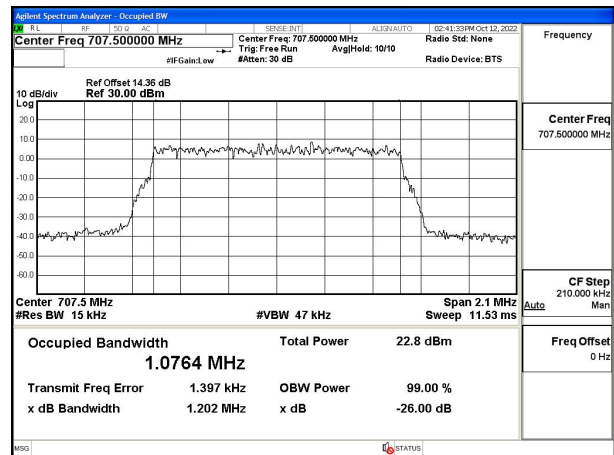


Fig.2

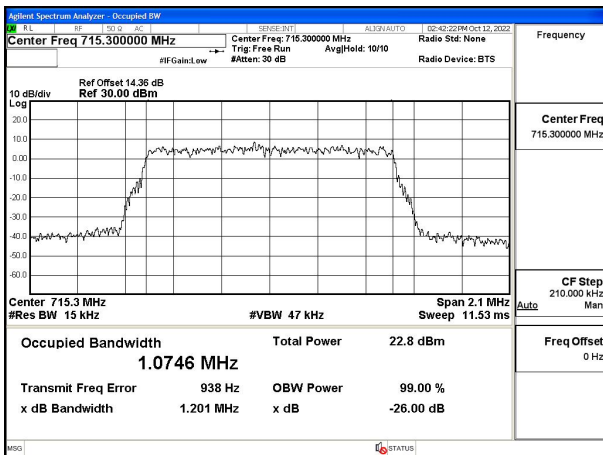


Fig.3

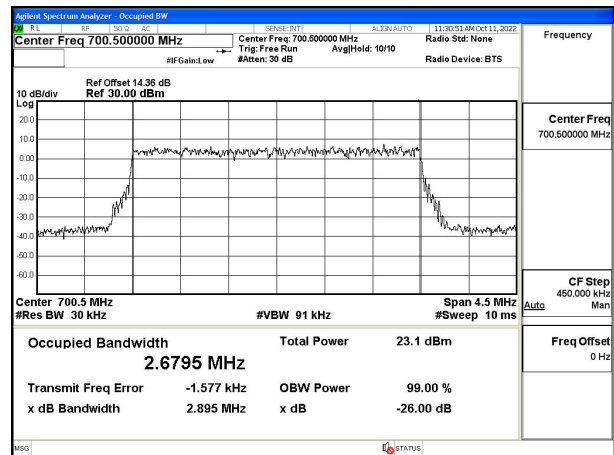


Fig.4

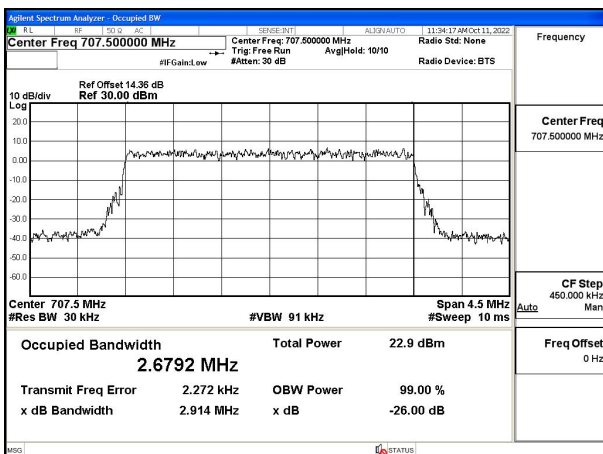


Fig.5

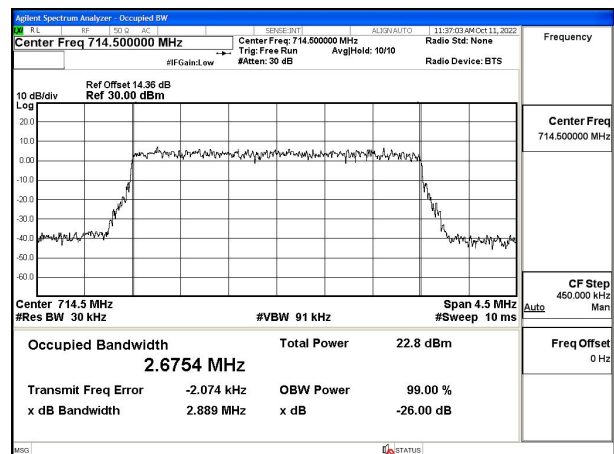


Fig.6