

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	23.26
QPSK	699.7	23017	1.4	1	3	23.34
QPSK	699.7	23017	1.4	1	5	23.26
QPSK	699.7	23017	1.4	3	0	23.43
QPSK	699.7	23017	1.4	3	1	23.44
QPSK	699.7	23017	1.4	3	3	23.43
QPSK	699.7	23017	1.4	6	0	22.41
QPSK	707.5	23095	1.4	1	0	23.41
QPSK	707.5	23095	1.4	1	3	23.49
QPSK	707.5	23095	1.4	1	5	23.43
QPSK	707.5	23095	1.4	3	0	23.46
QPSK	707.5	23095	1.4	3	1	23.52
QPSK	707.5	23095	1.4	3	3	23.50
QPSK	707.5	23095	1.4	6	0	22.39
QPSK	715.3	23173	1.4	1	0	23.39
QPSK	715.3	23173	1.4	1	3	23.34
QPSK	715.3	23173	1.4	1	5	23.33
QPSK	715.3	23173	1.4	3	0	23.42
QPSK	715.3	23173	1.4	3	1	23.31
QPSK	715.3	23173	1.4	3	3	23.49
QPSK	715.3	23173	1.4	6	0	22.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	23.13
16QAM	699.7	23017	1.4	1	3	22.86
16QAM	699.7	23017	1.4	1	5	22.68
16QAM	699.7	23017	1.4	3	0	22.64
16QAM	699.7	23017	1.4	3	1	22.37
16QAM	699.7	23017	1.4	3	3	22.52
16QAM	699.7	23017	1.4	6	0	21.57
16QAM	707.5	23095	1.4	1	0	22.82
16QAM	707.5	23095	1.4	1	3	22.99
16QAM	707.5	23095	1.4	1	5	22.88
16QAM	707.5	23095	1.4	3	0	22.65
16QAM	707.5	23095	1.4	3	1	22.64
16QAM	707.5	23095	1.4	3	3	22.42
16QAM	707.5	23095	1.4	6	0	21.36
16QAM	715.3	23173	1.4	1	0	22.74
16QAM	715.3	23173	1.4	1	3	22.30
16QAM	715.3	23173	1.4	1	5	23.04

16QAM	715.3	23173	1.4	3	0	22.51
16QAM	715.3	23173	1.4	3	1	22.53
16QAM	715.3	23173	1.4	3	3	22.56
16QAM	715.3	23173	1.4	6	0	21.65
64QAM	699.7	23017	1.4	1	0	22.51
64QAM	699.7	23017	1.4	1	3	22.42
64QAM	699.7	23017	1.4	1	5	22.34
64QAM	699.7	23017	1.4	3	0	22.36
64QAM	699.7	23017	1.4	3	1	22.49
64QAM	699.7	23017	1.4	3	3	22.35
64QAM	699.7	23017	1.4	6	0	21.39
64QAM	707.5	23095	1.4	1	0	22.75
64QAM	707.5	23095	1.4	1	3	22.69
64QAM	707.5	23095	1.4	1	5	22.17
64QAM	707.5	23095	1.4	3	0	22.45
64QAM	707.5	23095	1.4	3	1	22.57
64QAM	707.5	23095	1.4	3	3	22.39
64QAM	707.5	23095	1.4	6	0	21.37
64QAM	715.3	23173	1.4	1	0	22.66
64QAM	715.3	23173	1.4	1	3	22.58
64QAM	715.3	23173	1.4	1	5	22.69
64QAM	715.3	23173	1.4	3	0	22.68
64QAM	715.3	23173	1.4	3	1	22.51
64QAM	715.3	23173	1.4	3	3	22.59
64QAM	715.3	23173	1.4	6	0	21.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.25
QPSK	700.5	23025	3	1	8	23.45
QPSK	700.5	23025	3	1	14	23.32
QPSK	700.5	23025	3	8	0	22.44
QPSK	700.5	23025	3	8	4	22.42
QPSK	700.5	23025	3	8	7	22.47
QPSK	700.5	23025	3	15	0	22.49
QPSK	707.5	23095	3	1	0	23.29
QPSK	707.5	23095	3	1	8	23.46
QPSK	707.5	23095	3	1	14	23.34
QPSK	707.5	23095	3	8	0	22.37
QPSK	707.5	23095	3	8	4	22.44
QPSK	707.5	23095	3	8	7	22.45
QPSK	707.5	23095	3	15	0	22.51
QPSK	714.5	23165	3	1	0	23.62
QPSK	714.5	23165	3	1	8	23.29
QPSK	714.5	23165	3	1	14	23.22
QPSK	714.5	23165	3	8	0	22.38
QPSK	714.5	23165	3	8	4	22.56
QPSK	714.5	23165	3	8	7	22.43
QPSK	714.5	23165	3	15	0	22.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	22.63
16QAM	700.5	23025	3	1	8	22.83
16QAM	700.5	23025	3	1	14	22.76
16QAM	700.5	23025	3	8	0	21.66
16QAM	700.5	23025	3	8	4	21.56
16QAM	700.5	23025	3	8	7	21.41
16QAM	700.5	23025	3	15	0	21.44
16QAM	707.5	23095	3	1	0	22.10
16QAM	707.5	23095	3	1	8	23.83
16QAM	707.5	23095	3	1	14	22.75
16QAM	707.5	23095	3	8	0	21.41
16QAM	707.5	23095	3	8	4	21.32
16QAM	707.5	23095	3	8	7	21.55
16QAM	707.5	23095	3	15	0	21.63
16QAM	714.5	23165	3	1	0	22.48
16QAM	714.5	23165	3	1	8	22.72
16QAM	714.5	23165	3	1	14	22.61
16QAM	714.5	23165	3	8	0	21.47
16QAM	714.5	23165	3	8	4	21.44
16QAM	714.5	23165	3	8	7	21.37
16QAM	714.5	23165	3	15	0	21.41
64QAM	700.5	23025	3	1	0	22.04
64QAM	700.5	23025	3	1	8	22.59
64QAM	700.5	23025	3	1	14	22.50
64QAM	700.5	23025	3	8	0	21.39
64QAM	700.5	23025	3	8	4	21.59
64QAM	700.5	23025	3	8	7	21.45
64QAM	700.5	23025	3	15	0	21.36
64QAM	707.5	23095	3	1	0	22.01
64QAM	707.5	23095	3	1	8	22.73
64QAM	707.5	23095	3	1	14	22.51
64QAM	707.5	23095	3	8	0	21.47
64QAM	707.5	23095	3	8	4	21.44
64QAM	707.5	23095	3	8	7	21.39
64QAM	707.5	23095	3	15	0	21.48
64QAM	714.5	23165	3	1	0	22.25
64QAM	714.5	23165	3	1	8	22.31
64QAM	714.5	23165	3	1	14	22.22
64QAM	714.5	23165	3	8	0	21.43
64QAM	714.5	23165	3	8	4	21.48
64QAM	714.5	23165	3	8	7	21.28
64QAM	714.5	23165	3	15	0	21.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.36
QPSK	701.5	23035	5	1	12	23.44
QPSK	701.5	23035	5	1	24	23.27
QPSK	701.5	23035	5	12	0	22.37
QPSK	701.5	23035	5	12	7	22.45
QPSK	701.5	23035	5	12	13	22.48
QPSK	701.5	23035	5	25	0	22.48
QPSK	707.5	23095	5	1	0	23.48
QPSK	707.5	23095	5	1	12	23.56
QPSK	707.5	23095	5	1	24	23.40
QPSK	707.5	23095	5	12	0	22.43
QPSK	707.5	23095	5	12	7	22.43
QPSK	707.5	23095	5	12	13	22.54
QPSK	707.5	23095	5	25	0	22.44
QPSK	713.5	23155	5	1	0	23.54
QPSK	713.5	23155	5	1	12	23.49
QPSK	713.5	23155	5	1	24	23.37
QPSK	713.5	23155	5	12	0	22.36
QPSK	713.5	23155	5	12	7	22.53
QPSK	713.5	23155	5	12	13	22.41
QPSK	713.5	23155	5	25	0	22.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.93
16QAM	701.5	23035	5	1	12	22.99
16QAM	701.5	23035	5	1	24	22.71
16QAM	701.5	23035	5	12	0	21.38
16QAM	701.5	23035	5	12	7	21.52
16QAM	701.5	23035	5	12	13	21.27
16QAM	701.5	23035	5	25	0	21.46
16QAM	707.5	23095	5	1	0	22.64
16QAM	707.5	23095	5	1	12	23.05
16QAM	707.5	23095	5	1	24	22.51
16QAM	707.5	23095	5	12	0	21.57
16QAM	707.5	23095	5	12	7	21.43
16QAM	707.5	23095	5	12	13	21.48
16QAM	707.5	23095	5	25	0	21.41
16QAM	713.5	23155	5	1	0	22.60
16QAM	713.5	23155	5	1	12	22.52
16QAM	713.5	23155	5	1	24	22.07
16QAM	713.5	23155	5	12	0	21.37
16QAM	713.5	23155	5	12	7	21.50

16QAM	713.5	23155	5	12	13	21.38
16QAM	713.5	23155	5	25	0	21.47
64QAM	701.5	23035	5	1	0	22.27
64QAM	701.5	23035	5	1	12	22.29
64QAM	701.5	23035	5	1	24	22.26
64QAM	701.5	23035	5	12	0	21.38
64QAM	701.5	23035	5	12	7	21.41
64QAM	701.5	23035	5	12	13	21.38
64QAM	701.5	23035	5	25	0	21.48
64QAM	707.5	23095	5	1	0	22.82
64QAM	707.5	23095	5	1	12	22.79
64QAM	707.5	23095	5	1	24	22.51
64QAM	707.5	23095	5	12	0	21.47
64QAM	707.5	23095	5	12	7	21.33
64QAM	707.5	23095	5	12	13	21.51
64QAM	707.5	23095	5	25	0	21.32
64QAM	713.5	23155	5	1	0	22.75
64QAM	713.5	23155	5	1	12	22.37
64QAM	713.5	23155	5	1	24	22.42
64QAM	713.5	23155	5	12	0	21.36
64QAM	713.5	23155	5	12	7	21.58
64QAM	713.5	23155	5	12	13	21.48
64QAM	713.5	23155	5	25	0	21.37

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.42
QPSK	704	23060	10	1	25	23.46
QPSK	704	23060	10	1	49	23.32
QPSK	704	23060	10	25	0	22.38
QPSK	704	23060	10	25	12	22.48
QPSK	704	23060	10	25	25	22.45
QPSK	704	23060	10	50	0	22.45
QPSK	707.5	23095	10	1	0	23.35
QPSK	707.5	23095	10	1	25	23.44
QPSK	707.5	23095	10	1	49	23.39
QPSK	707.5	23095	10	25	0	22.38
QPSK	707.5	23095	10	25	12	22.44
QPSK	707.5	23095	10	25	25	22.52
QPSK	707.5	23095	10	50	0	22.44
QPSK	711	23130	10	1	0	23.57
QPSK	711	23130	10	1	25	23.48
QPSK	711	23130	10	1	49	23.21
QPSK	711	23130	10	25	0	22.47
QPSK	711	23130	10	25	12	22.47
QPSK	711	23130	10	25	25	22.41

QPSK	711	23130	10	50	0	22.48
------	-----	-------	----	----	---	-------

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	22.84
16QAM	704	23060	10	1	25	22.36
16QAM	704	23060	10	1	49	23.32
16QAM	704	23060	10	25	0	21.47
16QAM	704	23060	10	25	12	21.51
16QAM	704	23060	10	25	25	21.41
16QAM	704	23060	10	50	0	21.59
16QAM	707.5	23095	10	1	0	22.90
16QAM	707.5	23095	10	1	25	22.68
16QAM	707.5	23095	10	1	49	22.60
16QAM	707.5	23095	10	25	0	21.43
16QAM	707.5	23095	10	25	12	21.57
16QAM	707.5	23095	10	25	25	21.54
16QAM	707.5	23095	10	50	0	21.38
16QAM	711	23130	10	1	0	23.57
16QAM	711	23130	10	1	25	22.89
16QAM	711	23130	10	1	49	22.79
16QAM	711	23130	10	25	0	21.40
16QAM	711	23130	10	25	12	21.57
16QAM	711	23130	10	25	25	21.32
16QAM	711	23130	10	50	0	21.55
64QAM	704	23060	10	1	0	22.51
64QAM	704	23060	10	1	25	22.76
64QAM	704	23060	10	1	49	22.57
64QAM	704	23060	10	25	0	21.43
64QAM	704	23060	10	25	12	21.43
64QAM	704	23060	10	25	25	21.43
64QAM	704	23060	10	50	0	21.52
64QAM	707.5	23095	10	1	0	22.50
64QAM	707.5	23095	10	1	25	22.63
64QAM	707.5	23095	10	1	49	22.88
64QAM	707.5	23095	10	25	0	21.45
64QAM	707.5	23095	10	25	12	21.44
64QAM	707.5	23095	10	25	25	21.45
64QAM	707.5	23095	10	50	0	21.40
64QAM	711	23130	10	1	0	22.93
64QAM	711	23130	10	1	25	22.45
64QAM	711	23130	10	1	49	22.19
64QAM	711	23130	10	25	0	21.48
64QAM	711	23130	10	25	12	21.56
64QAM	711	23130	10	25	25	21.37
64QAM	711	23130	10	50	0	21.48

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	1.079	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.076	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.076	Fig.3
12	QPSK	700.5	23025	3	15	0	2.683	Fig.4
12	QPSK	707.5	23095	3	15	0	2.666	Fig.5
12	QPSK	714.5	23165	3	15	0	2.679	Fig.6
12	QPSK	701.5	23035	5	25	0	4.468	Fig.7
12	QPSK	707.5	23095	5	25	0	4.457	Fig.8
12	QPSK	713.5	23155	5	25	0	4.477	Fig.9
12	QPSK	704	23060	10	50	0	8.938	Fig.10
12	QPSK	707.5	23095	10	50	0	8.942	Fig.11
12	QPSK	711	23130	10	50	0	8.878	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	1.080	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.078	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.081	Fig.15
12	16QAM	700.5	23025	3	15	0	2.682	Fig.16
12	16QAM	707.5	23095	3	15	0	2.678	Fig.17
12	16QAM	714.5	23165	3	15	0	2.674	Fig.18
12	16QAM	701.5	23035	5	25	0	4.433	Fig.19
12	16QAM	707.5	23095	5	25	0	4.461	Fig.20
12	16QAM	713.5	23155	5	25	0	4.446	Fig.21
12	16QAM	704	23060	10	50	0	8.917	Fig.22
12	16QAM	707.5	23095	10	50	0	8.902	Fig.23
12	16QAM	711	23130	10	50	0	8.880	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	1.080	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.076	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.073	Fig.27
12	64QAM	700.5	23025	3	15	0	2.685	Fig.28
12	64QAM	707.5	23095	3	15	0	2.691	Fig.29
12	64QAM	714.5	23165	3	15	0	2.682	Fig.30
12	64QAM	701.5	23035	5	25	0	4.461	Fig.31
12	64QAM	707.5	23095	5	25	0	4.450	Fig.32
12	64QAM	713.5	23155	5	25	0	4.460	Fig.33
12	64QAM	704	23060	10	50	0	8.928	Fig.34
12	64QAM	707.5	23095	10	50	0	8.913	Fig.35
12	64QAM	711	23130	10	50	0	8.883	Fig.36

Test Mode: QPSK

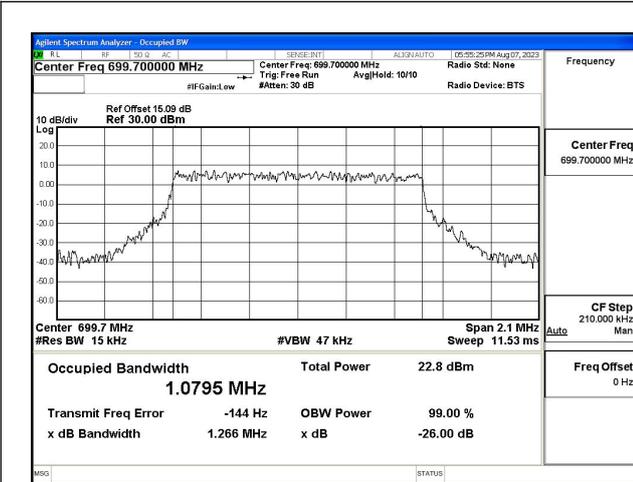


Fig.1

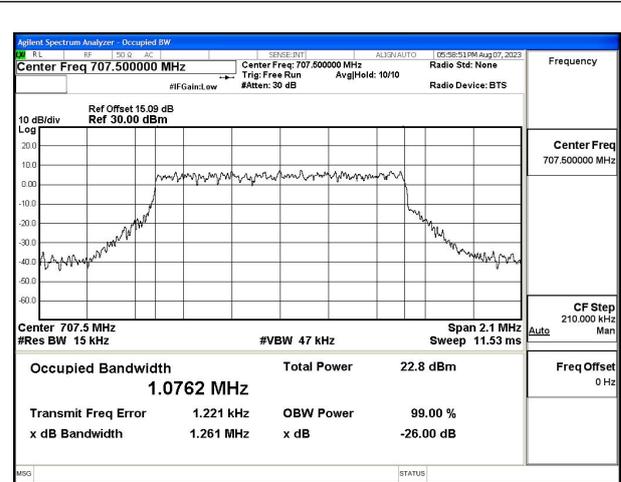


Fig.2

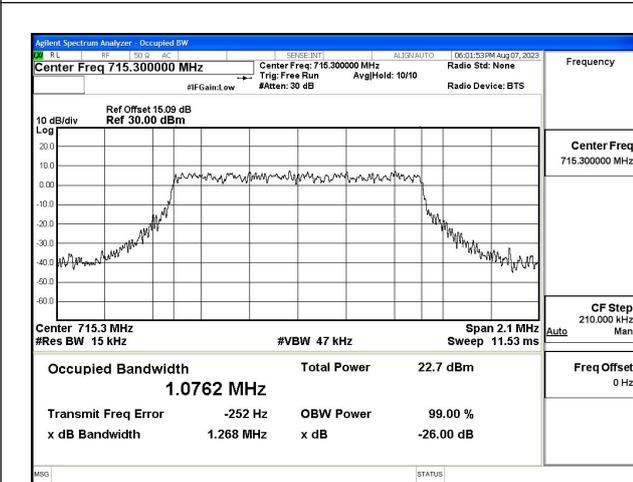


Fig.3

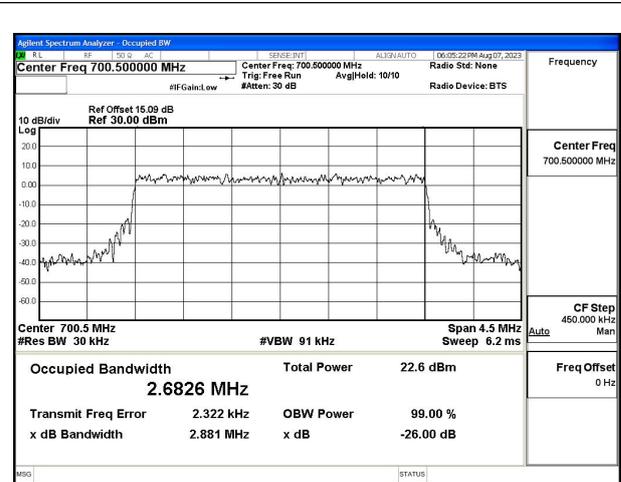


Fig.4

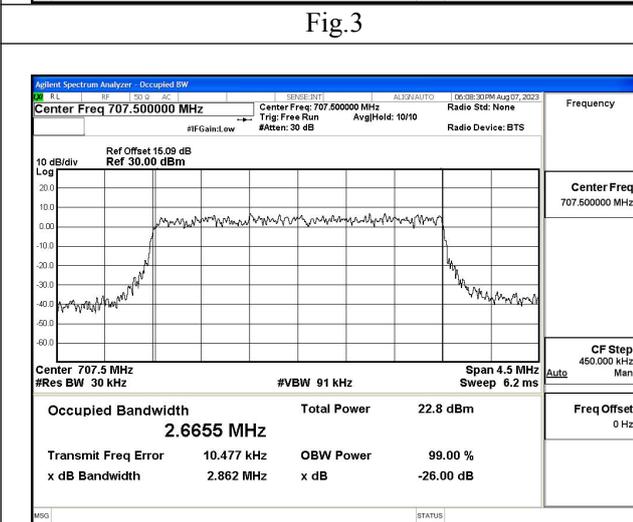


Fig.5

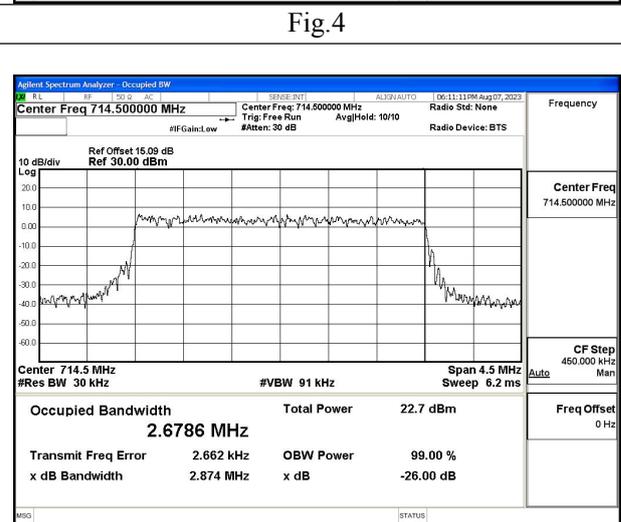


Fig.6

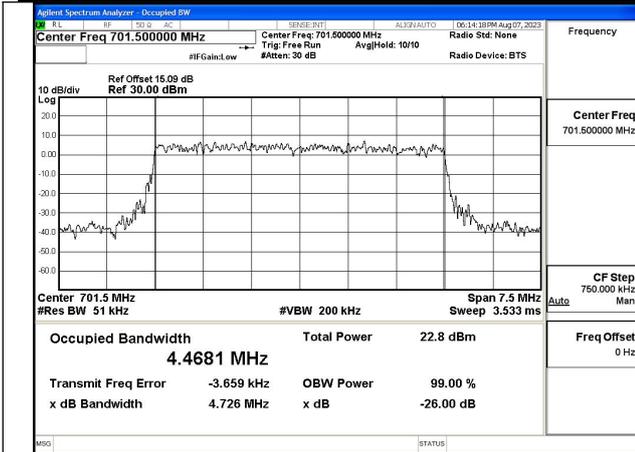


Fig.7

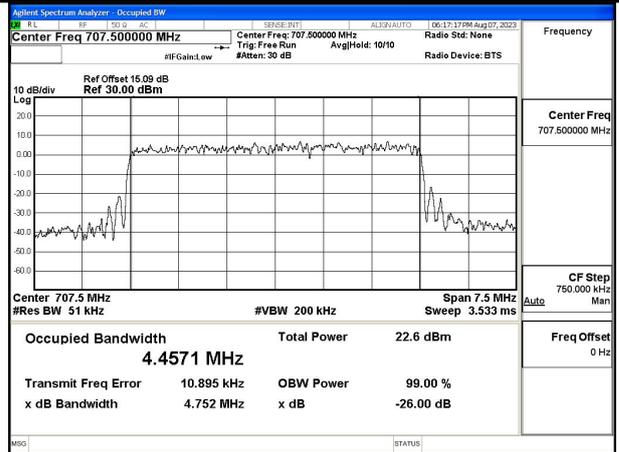


Fig.8

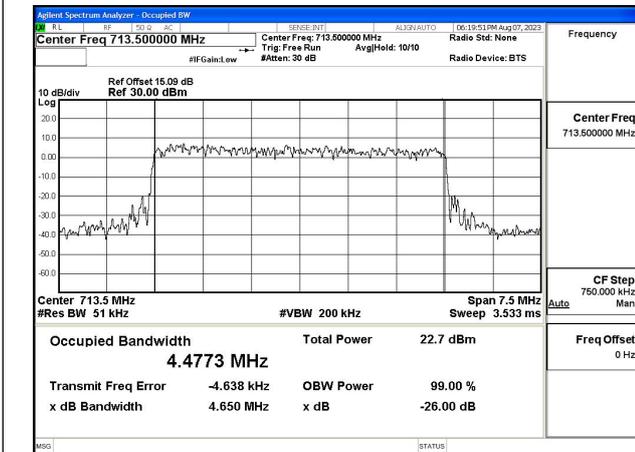


Fig.9

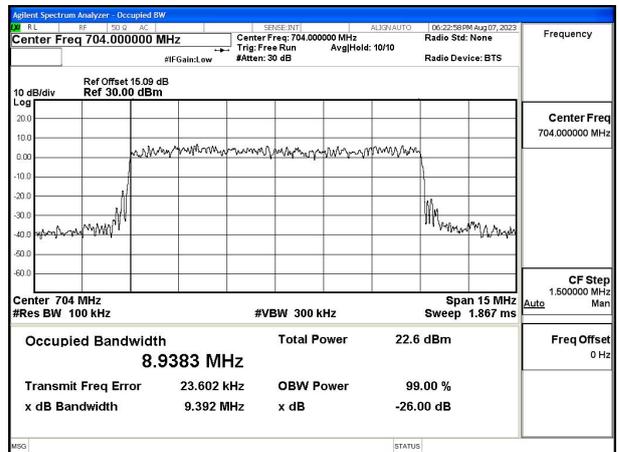


Fig.10

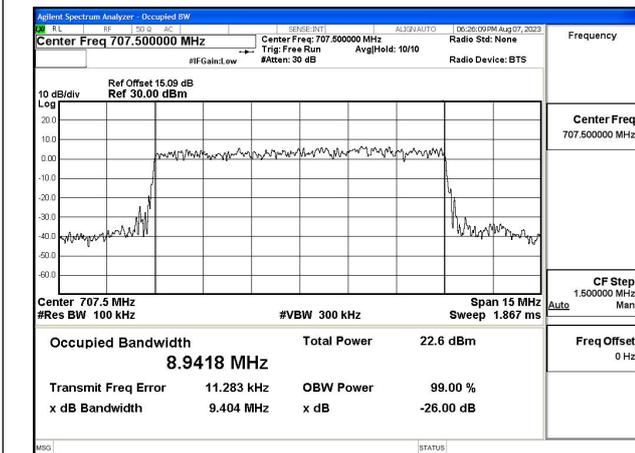


Fig.11

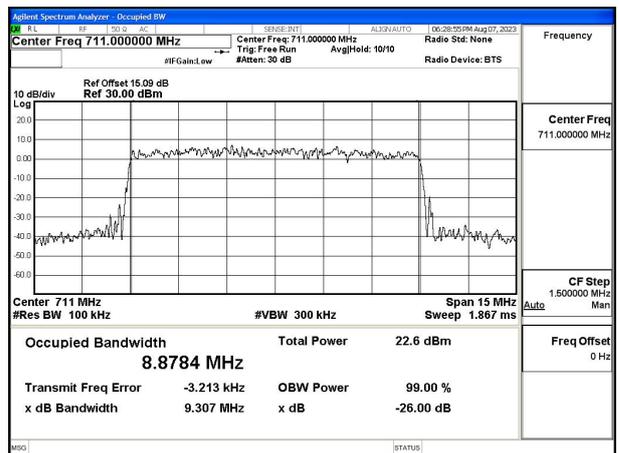


Fig.12

Test Mode: 16QAM

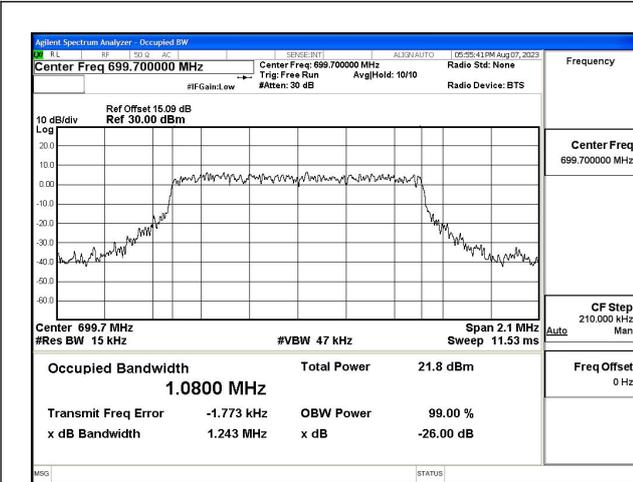


Fig.13

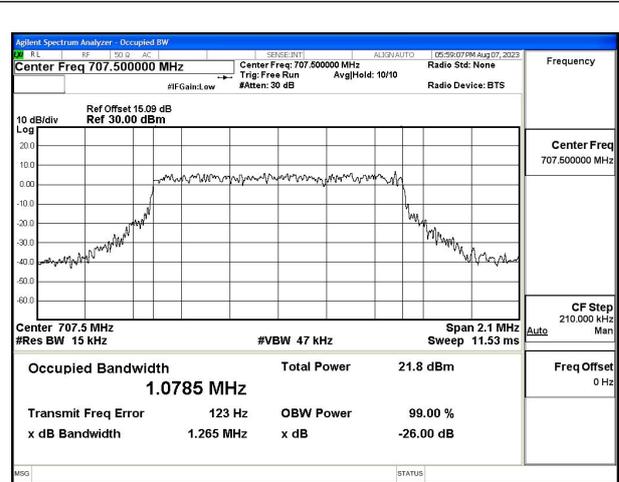


Fig.14

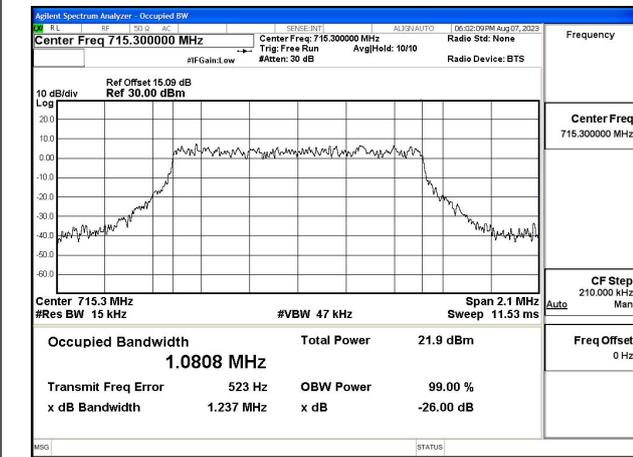


Fig.15

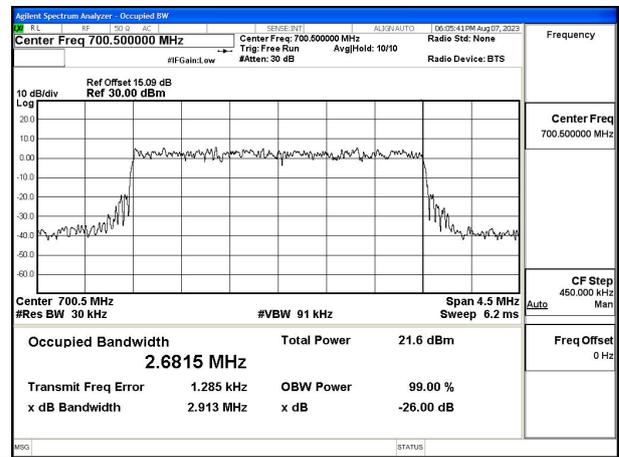


Fig.16

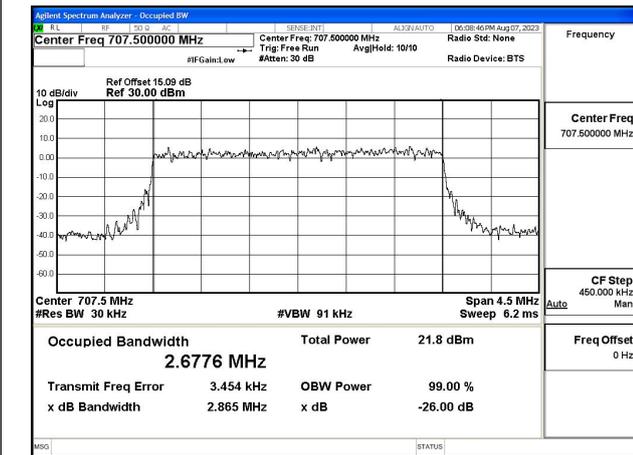


Fig.17

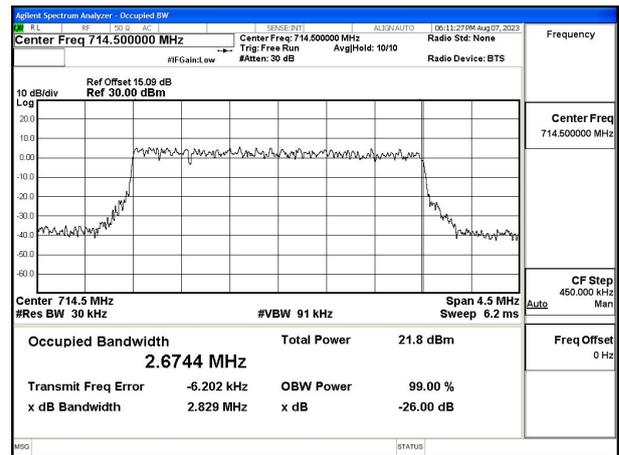


Fig.18

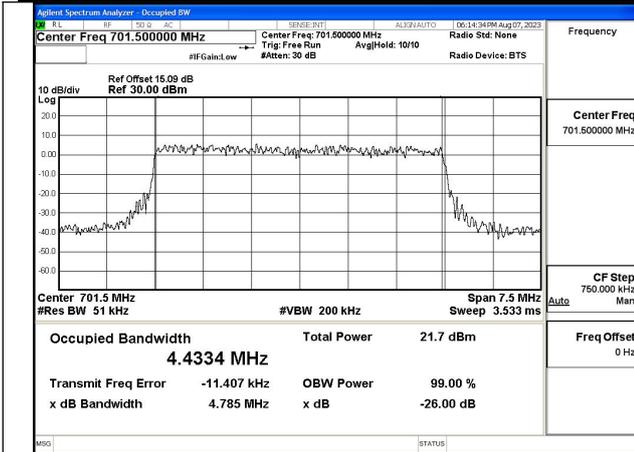


Fig.19

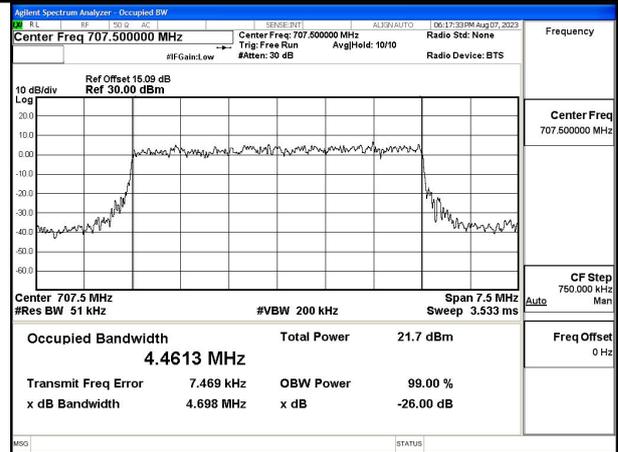


Fig.20

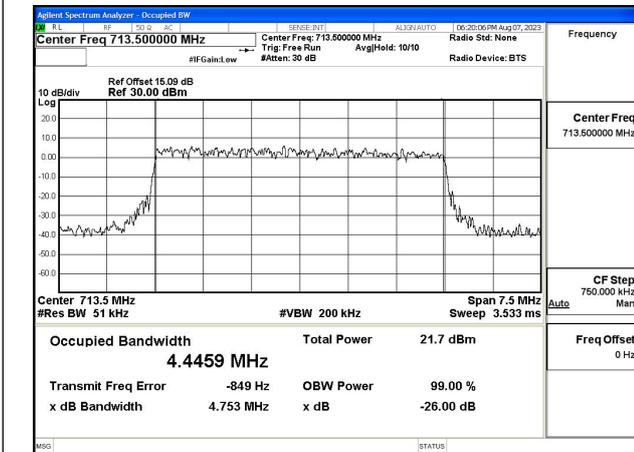


Fig.21

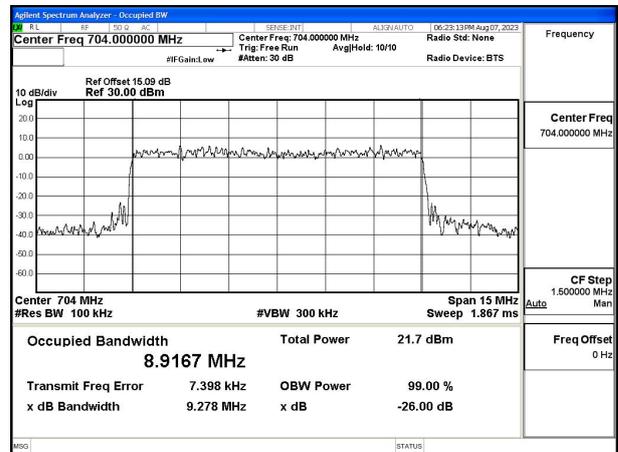


Fig.22

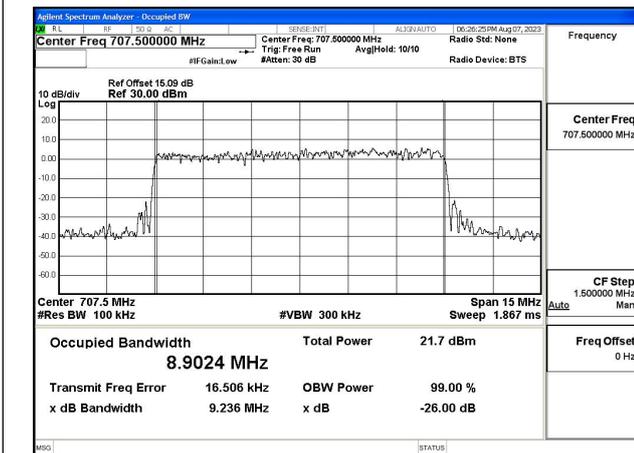


Fig.23

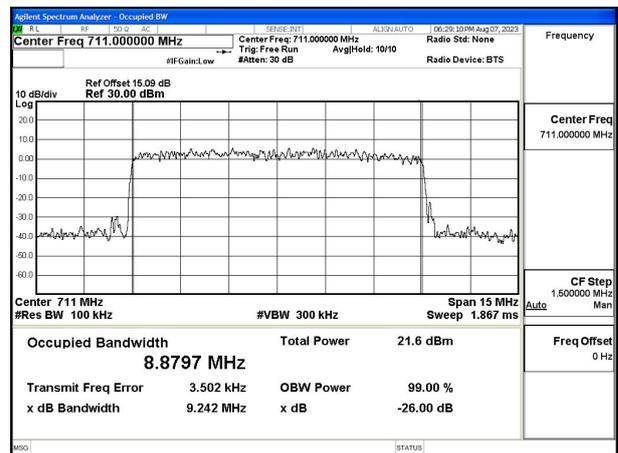


Fig.24

Test Mode: 64QAM

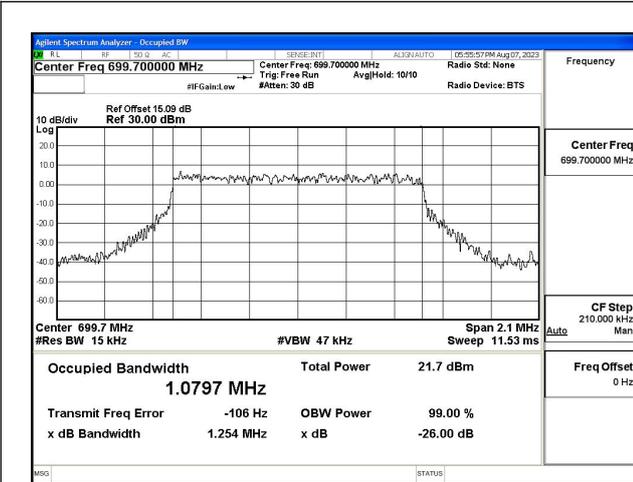


Fig.25

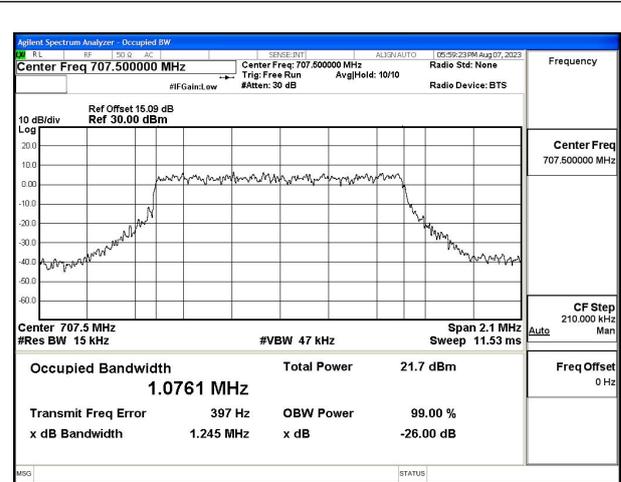


Fig.26

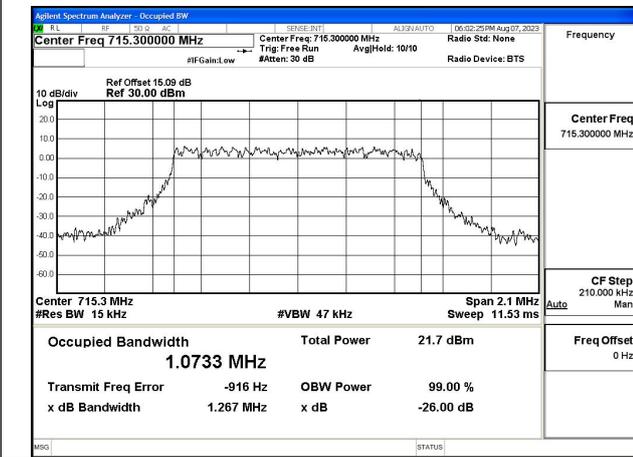


Fig.27

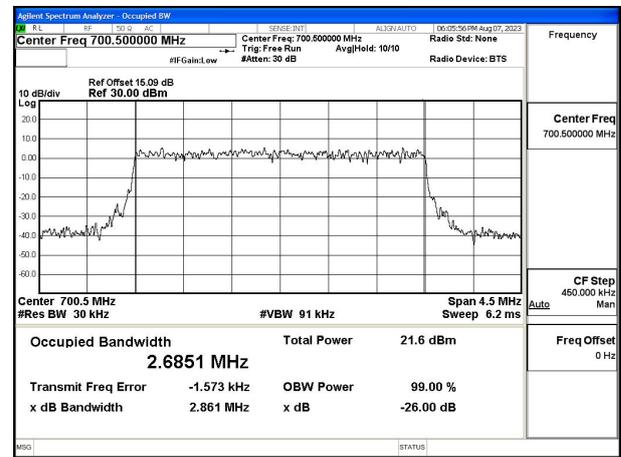


Fig.28

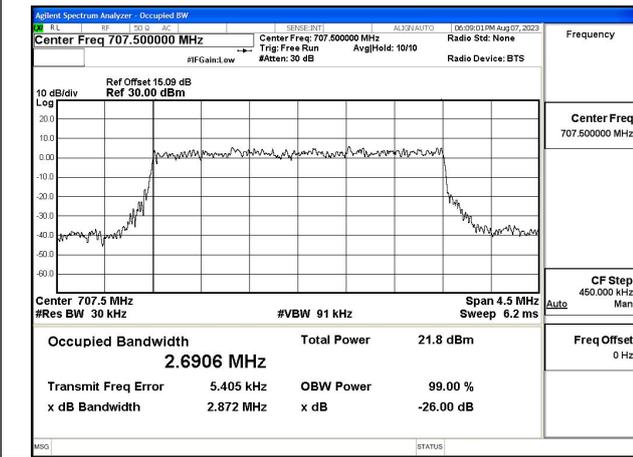


Fig.29

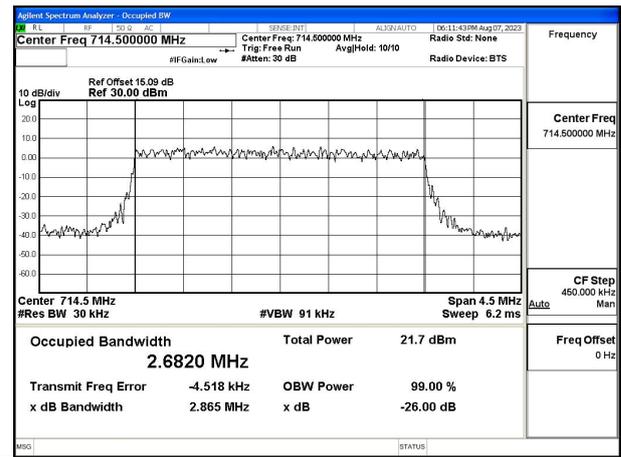


Fig.30

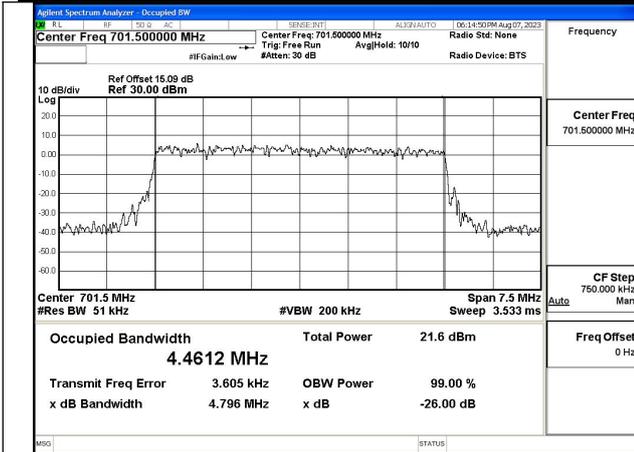


Fig.31

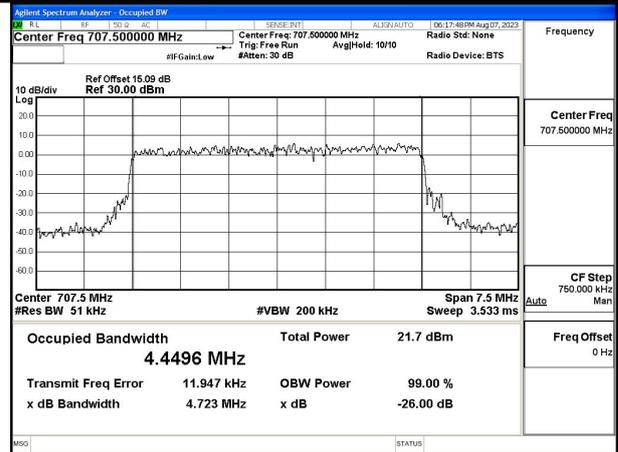


Fig.32

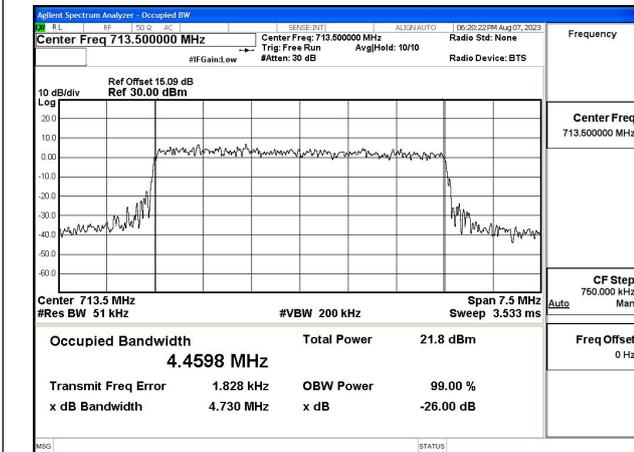


Fig.33

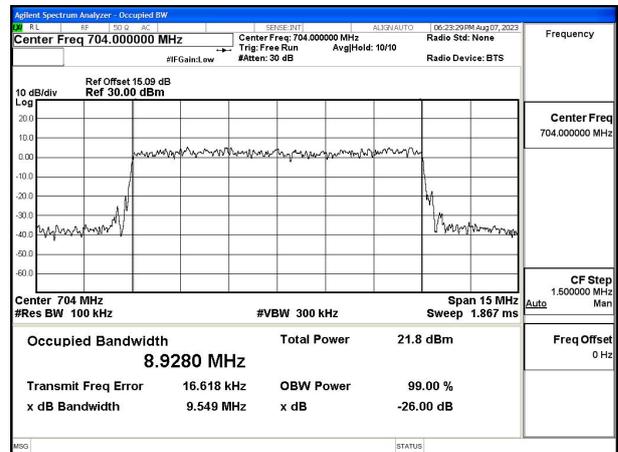


Fig.34

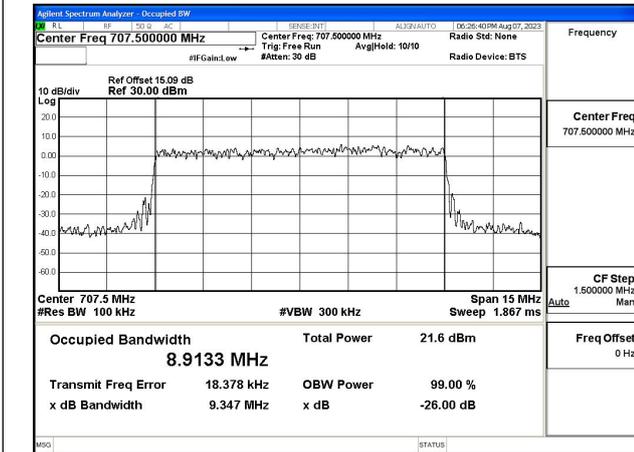


Fig.35

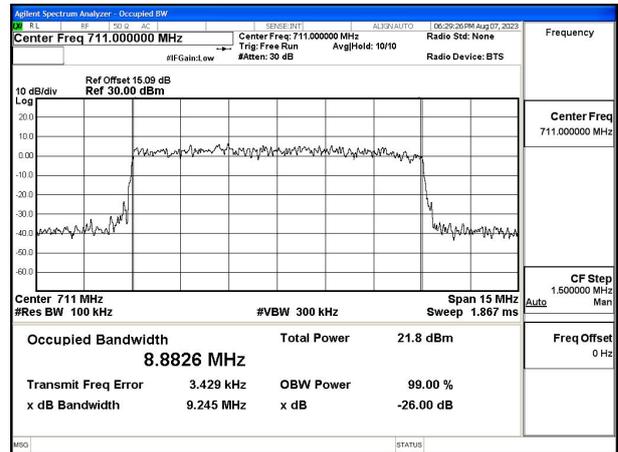


Fig.36

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	1.266	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.261	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.268	Fig.3
12	QPSK	700.5	23025	3	15	0	2.881	Fig.4
12	QPSK	707.5	23095	3	15	0	2.862	Fig.5
12	QPSK	714.5	23165	3	15	0	2.874	Fig.6
12	QPSK	701.5	23035	5	25	0	4.726	Fig.7
12	QPSK	707.5	23095	5	25	0	4.752	Fig.8
12	QPSK	713.5	23155	5	25	0	4.650	Fig.9
12	QPSK	704	23060	10	50	0	9.392	Fig.10
12	QPSK	707.5	23095	10	50	0	9.404	Fig.11
12	QPSK	711	23130	10	50	0	9.307	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	1.243	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.265	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.237	Fig.15
12	16QAM	700.5	23025	3	15	0	2.913	Fig.16
12	16QAM	707.5	23095	3	15	0	2.865	Fig.17
12	16QAM	714.5	23165	3	15	0	2.829	Fig.18
12	16QAM	701.5	23035	5	25	0	4.785	Fig.19
12	16QAM	707.5	23095	5	25	0	4.698	Fig.20
12	16QAM	713.5	23155	5	25	0	4.753	Fig.21
12	16QAM	704	23060	10	50	0	9.278	Fig.22
12	16QAM	707.5	23095	10	50	0	9.236	Fig.23
12	16QAM	711	23130	10	50	0	9.242	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	1.254	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.245	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.267	Fig.27
12	64QAM	700.5	23025	3	15	0	2.861	Fig.28
12	64QAM	707.5	23095	3	15	0	2.872	Fig.29
12	64QAM	714.5	23165	3	15	0	2.865	Fig.30
12	64QAM	701.5	23035	5	25	0	4.796	Fig.31
12	64QAM	707.5	23095	5	25	0	4.723	Fig.32
12	64QAM	713.5	23155	5	25	0	4.730	Fig.33
12	64QAM	704	23060	10	50	0	9.549	Fig.34
12	64QAM	707.5	23095	10	50	0	9.347	Fig.35
12	64QAM	711	23130	10	50	0	9.245	Fig.36

Test Mode: QPSK

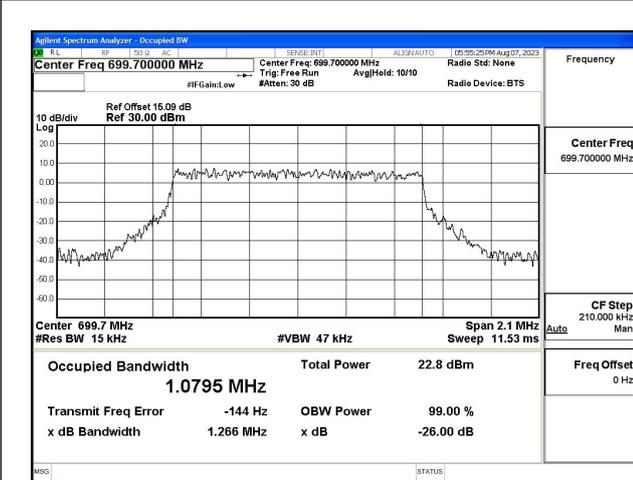


Fig.1

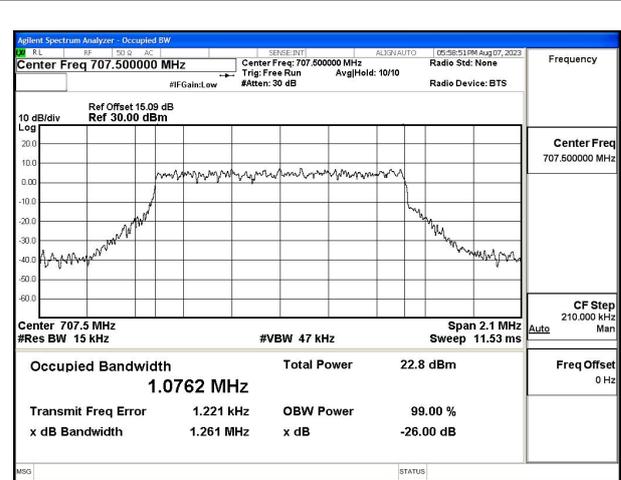


Fig.2

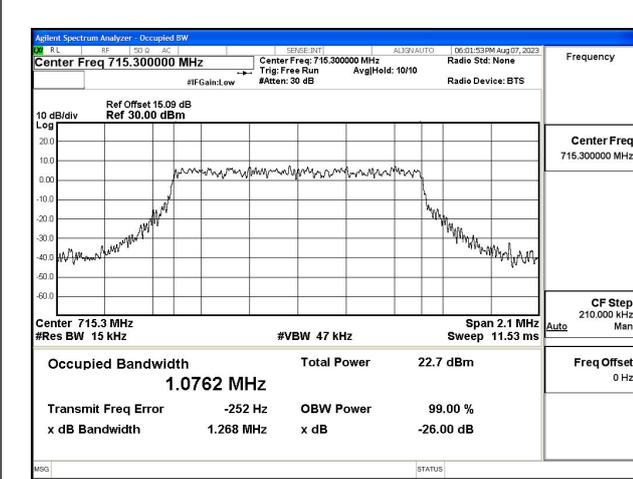


Fig.3

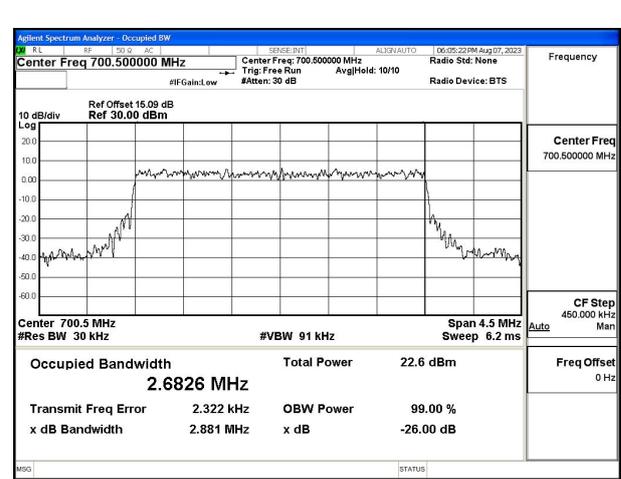


Fig.4

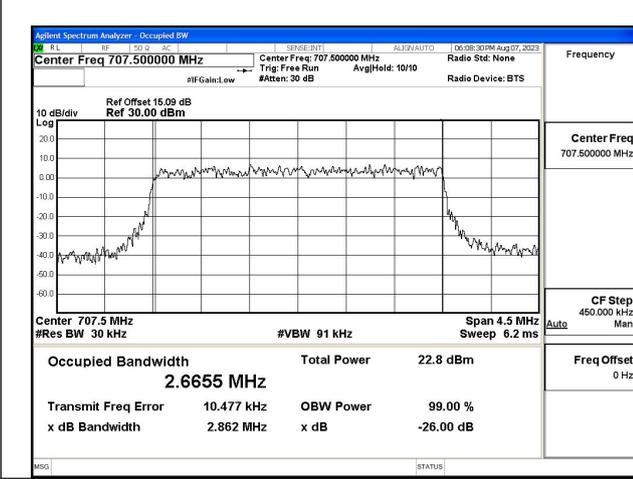


Fig.5

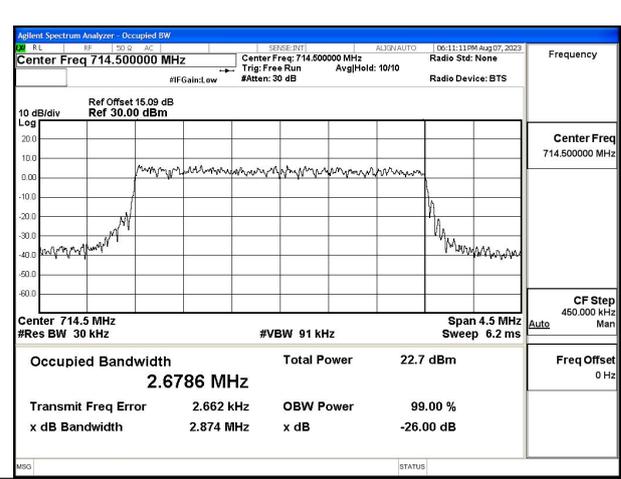


Fig.6