

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	23.15
QPSK	699.7	23017	1.4	1	3	23.08
QPSK	699.7	23017	1.4	1	5	22.87
QPSK	699.7	23017	1.4	3	0	23.02
QPSK	699.7	23017	1.4	3	1	23.18
QPSK	699.7	23017	1.4	3	3	23.06
QPSK	699.7	23017	1.4	6	0	22.34
QPSK	707.5	23095	1.4	1	0	23.01
QPSK	707.5	23095	1.4	1	3	23.20
QPSK	707.5	23095	1.4	1	5	23.08
QPSK	707.5	23095	1.4	3	0	23.16
QPSK	707.5	23095	1.4	3	1	23.11
QPSK	707.5	23095	1.4	3	3	23.04
QPSK	707.5	23095	1.4	6	0	22.07
QPSK	715.3	23173	1.4	1	0	22.92
QPSK	715.3	23173	1.4	1	3	22.95
QPSK	715.3	23173	1.4	1	5	22.95
QPSK	715.3	23173	1.4	3	0	22.97
QPSK	715.3	23173	1.4	3	1	23.08
QPSK	715.3	23173	1.4	3	3	23.00
QPSK	715.3	23173	1.4	6	0	22.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.20
16QAM	699.7	23017	1.4	1	3	22.83
16QAM	699.7	23017	1.4	1	5	22.23
16QAM	699.7	23017	1.4	3	0	22.36
16QAM	699.7	23017	1.4	3	1	22.16
16QAM	699.7	23017	1.4	3	3	22.41
16QAM	699.7	23017	1.4	6	0	21.31
16QAM	707.5	23095	1.4	1	0	22.85
16QAM	707.5	23095	1.4	1	3	22.45
16QAM	707.5	23095	1.4	1	5	22.32
16QAM	707.5	23095	1.4	3	0	22.39
16QAM	707.5	23095	1.4	3	1	22.15
16QAM	707.5	23095	1.4	3	3	22.13
16QAM	707.5	23095	1.4	6	0	21.13
16QAM	715.3	23173	1.4	1	0	22.24
16QAM	715.3	23173	1.4	1	3	22.18
16QAM	715.3	23173	1.4	1	5	22.13
16QAM	715.3	23173	1.4	3	0	22.14
16QAM	715.3	23173	1.4	3	1	22.04
16QAM	715.3	23173	1.4	3	3	22.17
16QAM	715.3	23173	1.4	6	0	21.01
64QAM	699.7	23017	1.4	1	0	22.23
64QAM	699.7	23017	1.4	1	3	22.44
64QAM	699.7	23017	1.4	1	5	22.39
64QAM	699.7	23017	1.4	3	0	21.94
64QAM	699.7	23017	1.4	3	1	22.22
64QAM	699.7	23017	1.4	3	3	22.29
64QAM	699.7	23017	1.4	6	0	21.33
64QAM	707.5	23095	1.4	1	0	21.99
64QAM	707.5	23095	1.4	1	3	22.01
64QAM	707.5	23095	1.4	1	5	22.15
64QAM	707.5	23095	1.4	3	0	21.99
64QAM	707.5	23095	1.4	3	1	22.07
64QAM	707.5	23095	1.4	3	3	22.26
64QAM	707.5	23095	1.4	6	0	21.19
64QAM	715.3	23173	1.4	1	0	21.87
64QAM	715.3	23173	1.4	1	3	21.76
64QAM	715.3	23173	1.4	1	5	22.22
64QAM	715.3	23173	1.4	3	0	22.09
64QAM	715.3	23173	1.4	3	1	22.06
64QAM	715.3	23173	1.4	3	3	21.63
64QAM	715.3	23173	1.4	6	0	21.20

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.30
QPSK	700.5	23025	3	1	8	23.14
QPSK	700.5	23025	3	1	14	23.11
QPSK	700.5	23025	3	8	0	22.24
QPSK	700.5	23025	3	8	4	22.24
QPSK	700.5	23025	3	8	7	22.39
QPSK	700.5	23025	3	15	0	22.32
QPSK	707.5	23095	3	1	0	23.11
QPSK	707.5	23095	3	1	8	23.38
QPSK	707.5	23095	3	1	14	22.99
QPSK	707.5	23095	3	8	0	22.18
QPSK	707.5	23095	3	8	4	22.19
QPSK	707.5	23095	3	8	7	22.21
QPSK	707.5	23095	3	15	0	22.09
QPSK	714.5	23165	3	1	0	22.74
QPSK	714.5	23165	3	1	8	23.01
QPSK	714.5	23165	3	1	14	22.71
QPSK	714.5	23165	3	8	0	22.03
QPSK	714.5	23165	3	8	4	22.11
QPSK	714.5	23165	3	8	7	22.15
QPSK	714.5	23165	3	15	0	22.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	22.57
16QAM	700.5	23025	3	1	8	22.31
16QAM	700.5	23025	3	1	14	21.95
16QAM	700.5	23025	3	8	0	21.17
16QAM	700.5	23025	3	8	4	21.24
16QAM	700.5	23025	3	8	7	21.31
16QAM	700.5	23025	3	15	0	21.31
16QAM	707.5	23095	3	1	0	22.32
16QAM	707.5	23095	3	1	8	22.76
16QAM	707.5	23095	3	1	14	22.79
16QAM	707.5	23095	3	8	0	21.23
16QAM	707.5	23095	3	8	4	21.33
16QAM	707.5	23095	3	8	7	21.14
16QAM	707.5	23095	3	15	0	21.24
16QAM	714.5	23165	3	1	0	22.07
16QAM	714.5	23165	3	1	8	22.00
16QAM	714.5	23165	3	1	14	22.30
16QAM	714.5	23165	3	8	0	20.99
16QAM	714.5	23165	3	8	4	21.27
16QAM	714.5	23165	3	8	7	21.10
16QAM	714.5	23165	3	15	0	21.19
64QAM	700.5	23025	3	1	0	21.85
64QAM	700.5	23025	3	1	8	22.57
64QAM	700.5	23025	3	1	14	21.90
64QAM	700.5	23025	3	8	0	21.33
64QAM	700.5	23025	3	8	4	21.27
64QAM	700.5	23025	3	8	7	21.17
64QAM	700.5	23025	3	15	0	21.23
64QAM	707.5	23095	3	1	0	21.92
64QAM	707.5	23095	3	1	8	21.92
64QAM	707.5	23095	3	1	14	22.23
64QAM	707.5	23095	3	8	0	21.12
64QAM	707.5	23095	3	8	4	21.09
64QAM	707.5	23095	3	8	7	21.16
64QAM	707.5	23095	3	15	0	20.99
64QAM	714.5	23165	3	1	0	21.90
64QAM	714.5	23165	3	1	8	22.36
64QAM	714.5	23165	3	1	14	22.17
64QAM	714.5	23165	3	8	0	21.05
64QAM	714.5	23165	3	8	4	21.04
64QAM	714.5	23165	3	8	7	20.97
64QAM	714.5	23165	3	15	0	21.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.10
QPSK	701.5	23035	5	1	12	23.02
QPSK	701.5	23035	5	1	24	23.00
QPSK	701.5	23035	5	12	0	22.27
QPSK	701.5	23035	5	12	7	22.29
QPSK	701.5	23035	5	12	13	22.18
QPSK	701.5	23035	5	25	0	22.27
QPSK	707.5	23095	5	1	0	23.26
QPSK	707.5	23095	5	1	12	23.48
QPSK	707.5	23095	5	1	24	22.97
QPSK	707.5	23095	5	12	0	22.10
QPSK	707.5	23095	5	12	7	22.09
QPSK	707.5	23095	5	12	13	22.14
QPSK	707.5	23095	5	25	0	22.10
QPSK	713.5	23155	5	1	0	23.05
QPSK	713.5	23155	5	1	12	22.98
QPSK	713.5	23155	5	1	24	22.86
QPSK	713.5	23155	5	12	0	22.08
QPSK	713.5	23155	5	12	7	22.01
QPSK	713.5	23155	5	12	13	22.13
QPSK	713.5	23155	5	25	0	21.94

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.62
16QAM	701.5	23035	5	1	12	22.59
16QAM	701.5	23035	5	1	24	22.55
16QAM	701.5	23035	5	12	0	21.26
16QAM	701.5	23035	5	12	7	21.27
16QAM	701.5	23035	5	12	13	21.31
16QAM	701.5	23035	5	25	0	21.32
16QAM	707.5	23095	5	1	0	22.34
16QAM	707.5	23095	5	1	12	22.60
16QAM	707.5	23095	5	1	24	21.95
16QAM	707.5	23095	5	12	0	21.19
16QAM	707.5	23095	5	12	7	21.19
16QAM	707.5	23095	5	12	13	21.26
16QAM	707.5	23095	5	25	0	21.06
16QAM	713.5	23155	5	1	0	22.55
16QAM	713.5	23155	5	1	12	22.16
16QAM	713.5	23155	5	1	24	22.33
16QAM	713.5	23155	5	12	0	20.99
16QAM	713.5	23155	5	12	7	21.13
16QAM	713.5	23155	5	12	13	21.14
16QAM	713.5	23155	5	25	0	20.95
64QAM	701.5	23035	5	1	0	22.33
64QAM	701.5	23035	5	1	12	22.17
64QAM	701.5	23035	5	1	24	22.18
64QAM	701.5	23035	5	12	0	21.10
64QAM	701.5	23035	5	12	7	21.40
64QAM	701.5	23035	5	12	13	21.17
64QAM	701.5	23035	5	25	0	21.22
64QAM	707.5	23095	5	1	0	22.30
64QAM	707.5	23095	5	1	12	22.03
64QAM	707.5	23095	5	1	24	22.11
64QAM	707.5	23095	5	12	0	20.99
64QAM	707.5	23095	5	12	7	21.24
64QAM	707.5	23095	5	12	13	21.17
64QAM	707.5	23095	5	25	0	21.15
64QAM	713.5	23155	5	1	0	21.97
64QAM	713.5	23155	5	1	12	21.88
64QAM	713.5	23155	5	1	24	21.72
64QAM	713.5	23155	5	12	0	21.03
64QAM	713.5	23155	5	12	7	21.06
64QAM	713.5	23155	5	12	13	21.08
64QAM	713.5	23155	5	25	0	21.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.30
QPSK	704	23060	10	1	25	23.23
QPSK	704	23060	10	1	49	22.93
QPSK	704	23060	10	25	0	22.17
QPSK	704	23060	10	25	12	22.26
QPSK	704	23060	10	25	25	22.11
QPSK	704	23060	10	50	0	22.25
QPSK	707.5	23095	10	1	0	23.26
QPSK	707.5	23095	10	1	25	22.94
QPSK	707.5	23095	10	1	49	22.94
QPSK	707.5	23095	10	25	0	22.20
QPSK	707.5	23095	10	25	12	22.13
QPSK	707.5	23095	10	25	25	22.14
QPSK	707.5	23095	10	50	0	22.09
QPSK	711	23130	10	1	0	23.05
QPSK	711	23130	10	1	25	23.13
QPSK	711	23130	10	1	49	22.91
QPSK	711	23130	10	25	0	22.09
QPSK	711	23130	10	25	12	22.19
QPSK	711	23130	10	25	25	22.11
QPSK	711	23130	10	50	0	22.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	22.39
16QAM	704	23060	10	1	25	22.73
16QAM	704	23060	10	1	49	22.32
16QAM	704	23060	10	25	0	21.17
16QAM	704	23060	10	25	12	21.34
16QAM	704	23060	10	25	25	21.18
16QAM	704	23060	10	50	0	21.21
16QAM	707.5	23095	10	1	0	23.03
16QAM	707.5	23095	10	1	25	22.50
16QAM	707.5	23095	10	1	49	22.28
16QAM	707.5	23095	10	25	0	21.22
16QAM	707.5	23095	10	25	12	21.22
16QAM	707.5	23095	10	25	25	21.18
16QAM	707.5	23095	10	50	0	21.07
16QAM	711	23130	10	1	0	22.29
16QAM	711	23130	10	1	25	22.58
16QAM	711	23130	10	1	49	22.42
16QAM	711	23130	10	25	0	21.20
16QAM	711	23130	10	25	12	21.20
16QAM	711	23130	10	25	25	21.14
16QAM	711	23130	10	50	0	21.22
64QAM	704	23060	10	1	0	22.22
64QAM	704	23060	10	1	25	22.46
64QAM	704	23060	10	1	49	22.29
64QAM	704	23060	10	25	0	21.17
64QAM	704	23060	10	25	12	21.26
64QAM	704	23060	10	25	25	21.16
64QAM	704	23060	10	50	0	21.28
64QAM	707.5	23095	10	1	0	22.40
64QAM	707.5	23095	10	1	25	22.05
64QAM	707.5	23095	10	1	49	21.92
64QAM	707.5	23095	10	25	0	21.21
64QAM	707.5	23095	10	25	12	21.23
64QAM	707.5	23095	10	25	25	21.10
64QAM	707.5	23095	10	50	0	21.06
64QAM	711	23130	10	1	0	22.11
64QAM	711	23130	10	1	25	22.30
64QAM	711	23130	10	1	49	22.12
64QAM	711	23130	10	25	0	21.11
64QAM	711	23130	10	25	12	21.18
64QAM	711	23130	10	25	25	21.16
64QAM	711	23130	10	50	0	21.15

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	1.074	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.072	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.075	Fig.3
12	QPSK	700.5	23025	3	15	0	2.678	Fig.4
12	QPSK	707.5	23095	3	15	0	2.680	Fig.5
12	QPSK	714.5	23165	3	15	0	2.685	Fig.6
12	QPSK	701.5	23035	5	25	0	4.463	Fig.7
12	QPSK	707.5	23095	5	25	0	4.457	Fig.8
12	QPSK	713.5	23155	5	25	0	4.456	Fig.9
12	QPSK	704	23060	10	50	0	8.894	Fig.10
12	QPSK	707.5	23095	10	50	0	8.926	Fig.11
12	QPSK	711	23130	10	50	0	8.860	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	1.078	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.076	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.075	Fig.15
12	16QAM	700.5	23025	3	15	0	2.680	Fig.16
12	16QAM	707.5	23095	3	15	0	2.678	Fig.17
12	16QAM	714.5	23165	3	15	0	2.671	Fig.18
12	16QAM	701.5	23035	5	25	0	4.468	Fig.19
12	16QAM	707.5	23095	5	25	0	4.461	Fig.20
12	16QAM	713.5	23155	5	25	0	4.466	Fig.21
12	16QAM	704	23060	10	50	0	8.944	Fig.22
12	16QAM	707.5	23095	10	50	0	8.912	Fig.23
12	16QAM	711	23130	10	50	0	8.893	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	1.070	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.074	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.074	Fig.27
12	64QAM	700.5	23025	3	15	0	2.664	Fig.28
12	64QAM	707.5	23095	3	15	0	2.677	Fig.29
12	64QAM	714.5	23165	3	15	0	2.679	Fig.30
12	64QAM	701.5	23035	5	25	0	4.463	Fig.31
12	64QAM	707.5	23095	5	25	0	4.449	Fig.32
12	64QAM	713.5	23155	5	25	0	4.477	Fig.33
12	64QAM	704	23060	10	50	0	8.898	Fig.34
12	64QAM	707.5	23095	10	50	0	8.915	Fig.35
12	64QAM	711	23130	10	50	0	8.897	Fig.36

Test Mode: QPSK

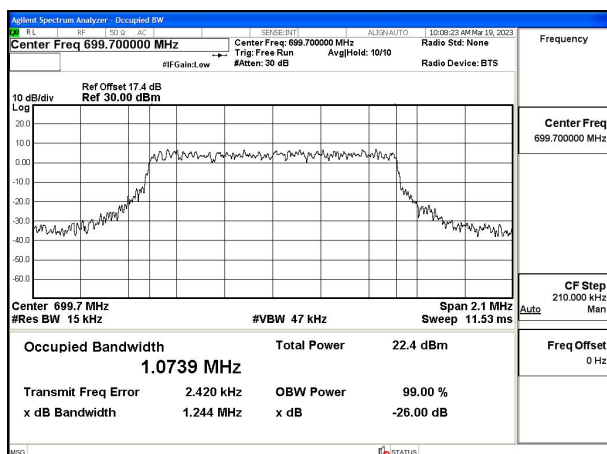


Fig.1

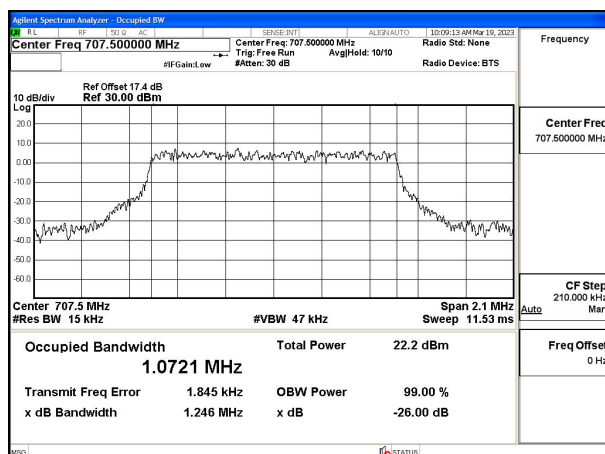


Fig.2

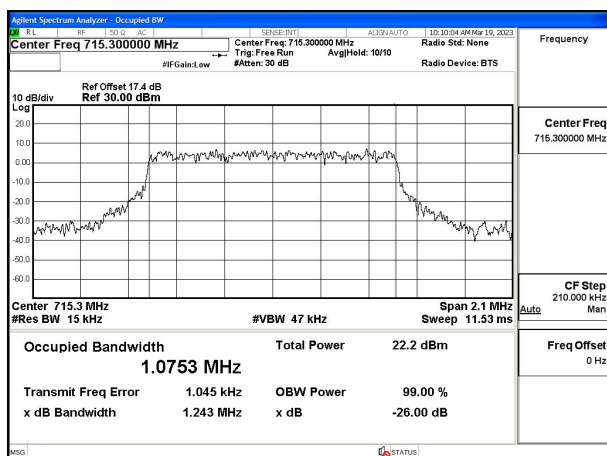


Fig.3

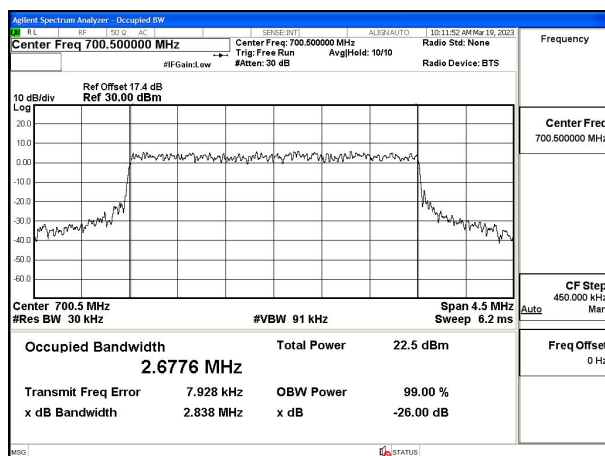


Fig.4

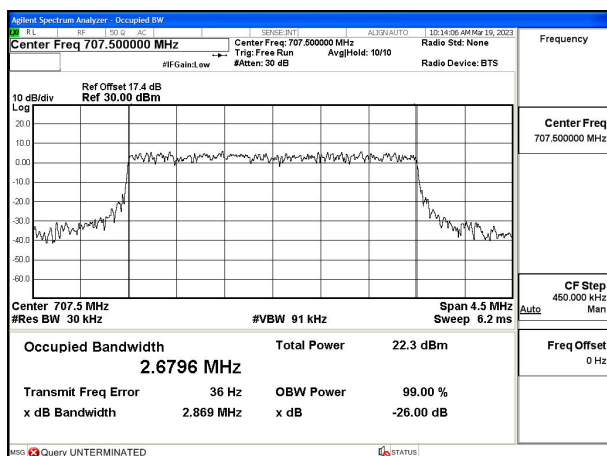


Fig.5

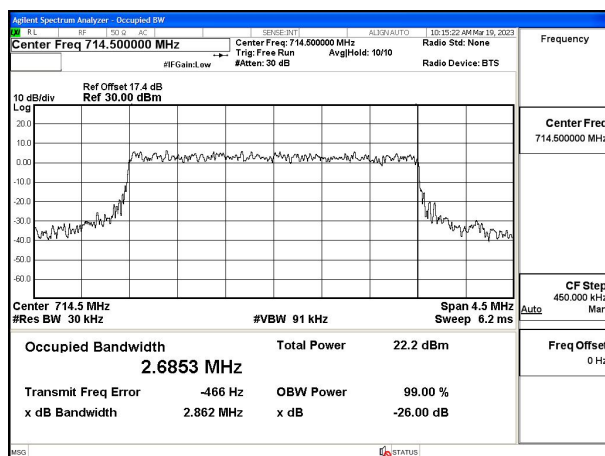


Fig.6

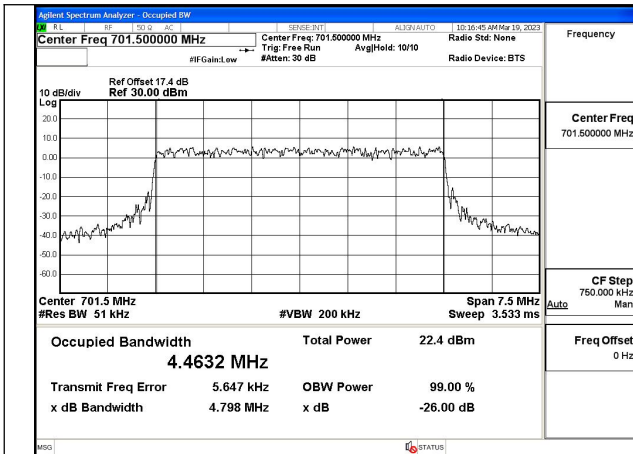


Fig.9

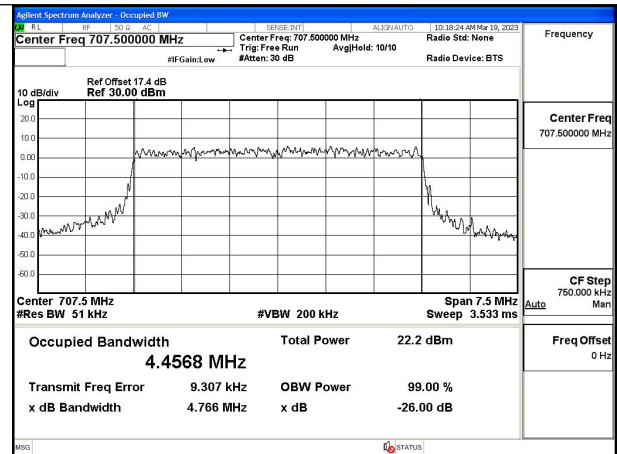


Fig.8

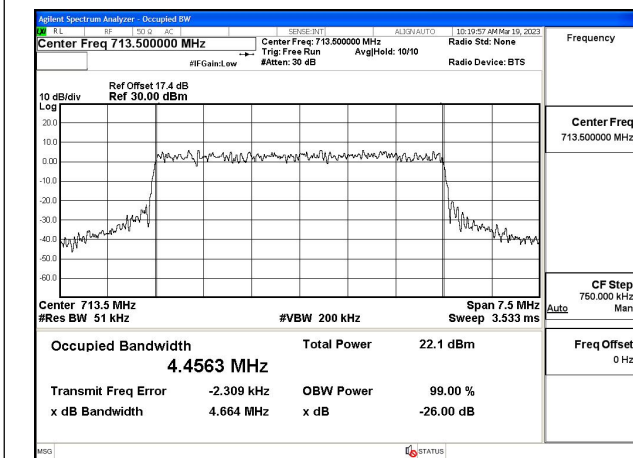


Fig.9

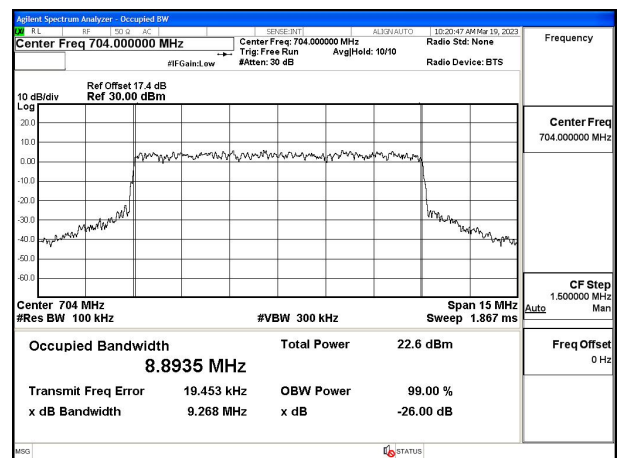


Fig.10

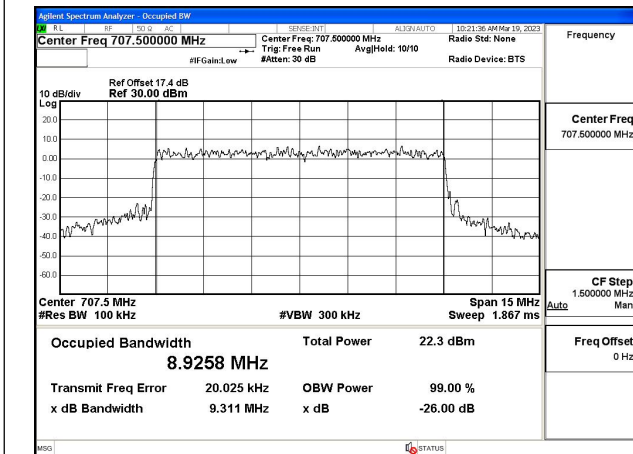


Fig.11

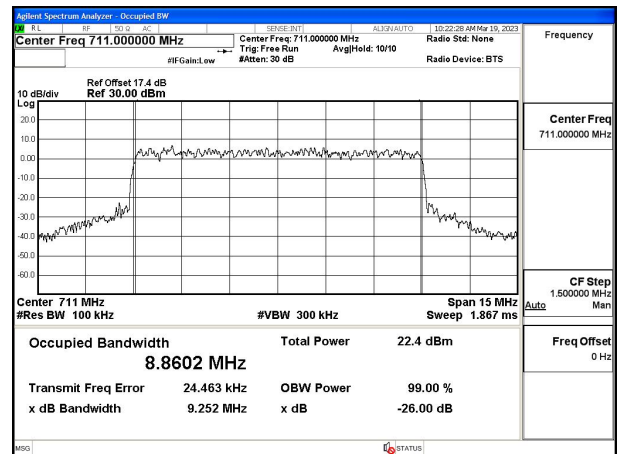


Fig.12

Test Mode: 16QAM

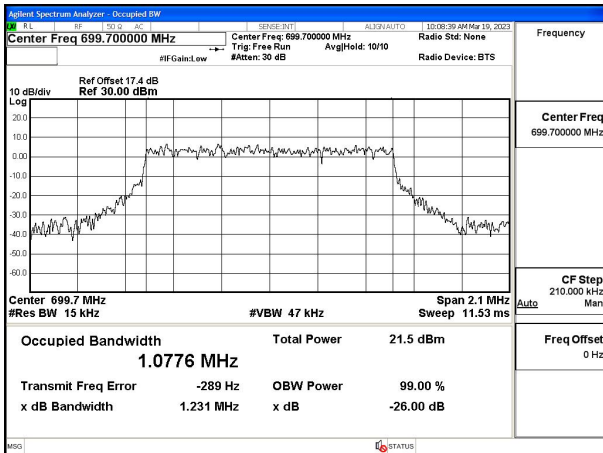


Fig.13

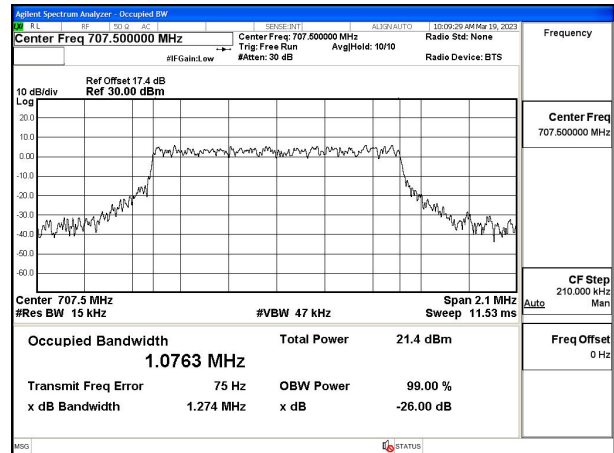


Fig.14

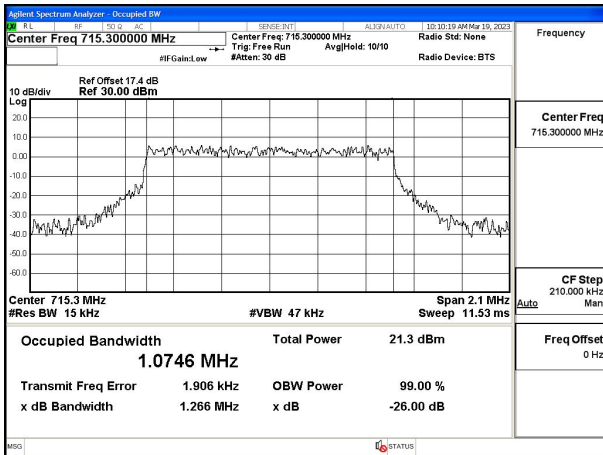


Fig.15

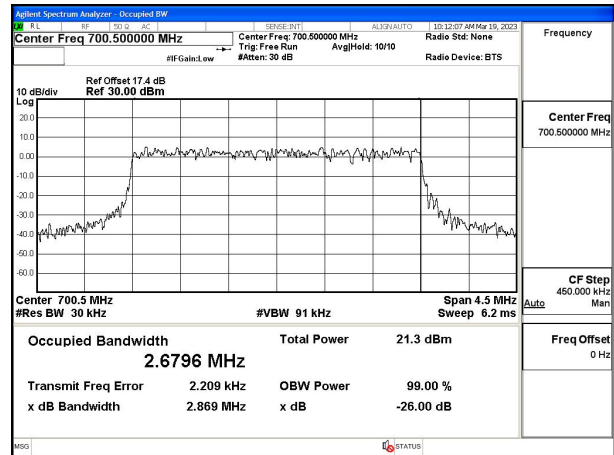


Fig.16

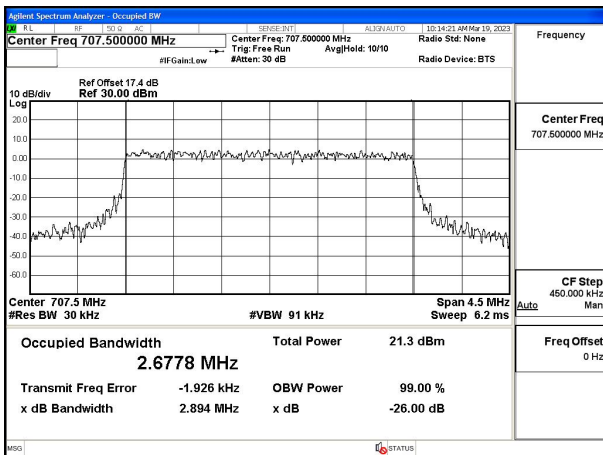


Fig.17

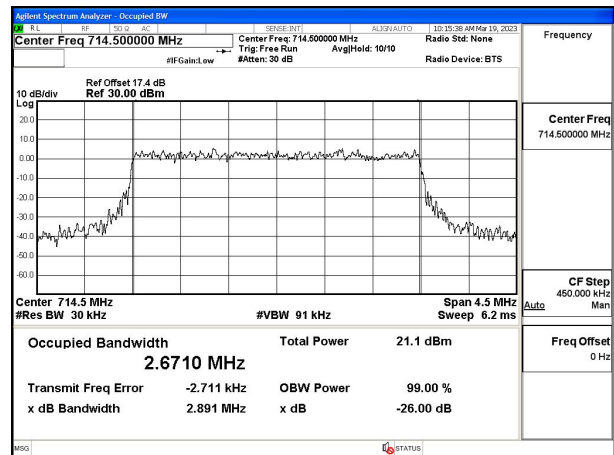


Fig.18

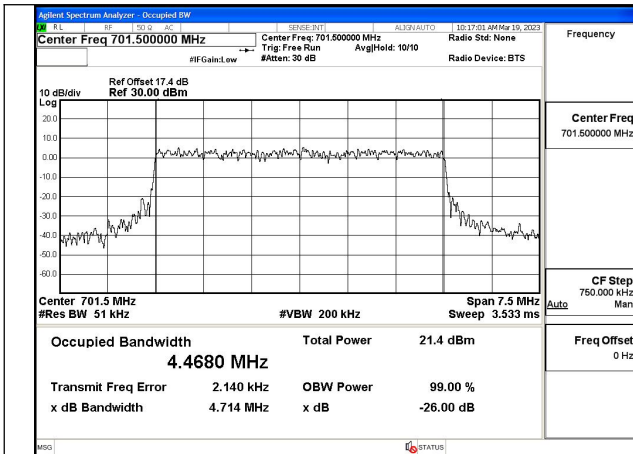


Fig.19

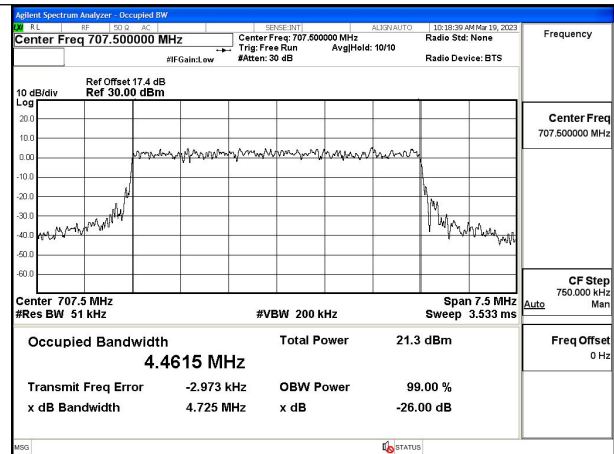


Fig.20

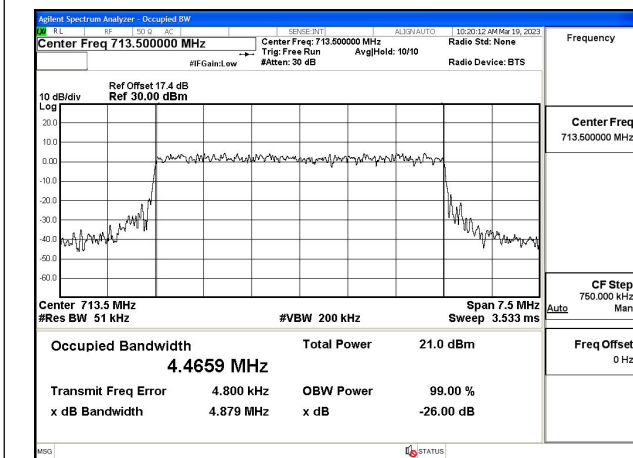


Fig.21

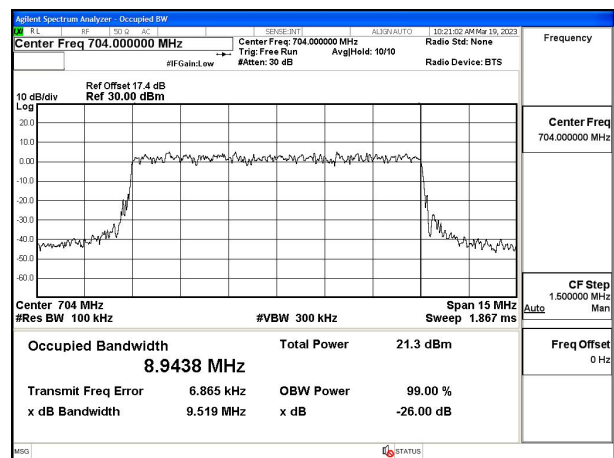


Fig.22

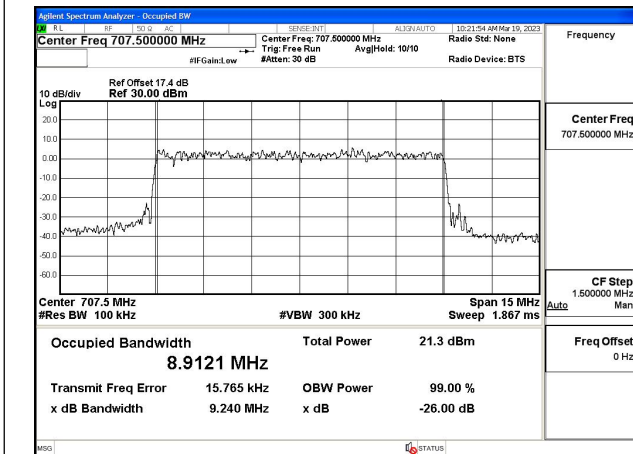


Fig.23

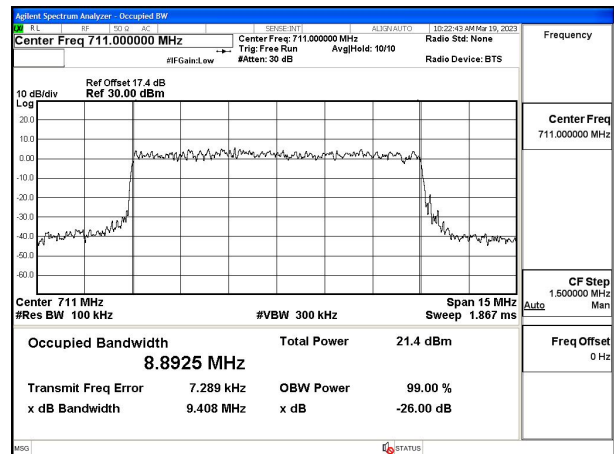


Fig.24

Test Mode: 64QAM

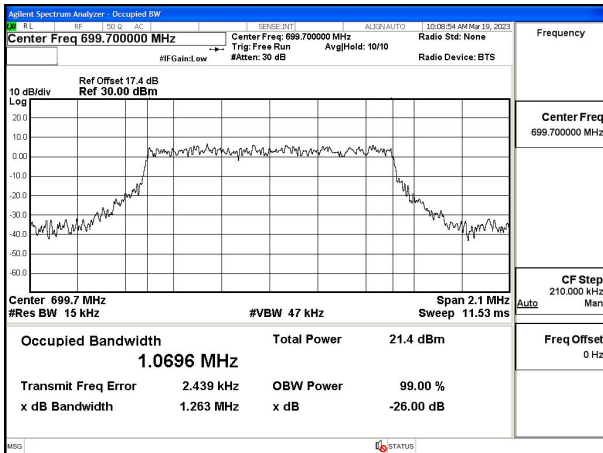


Fig.25

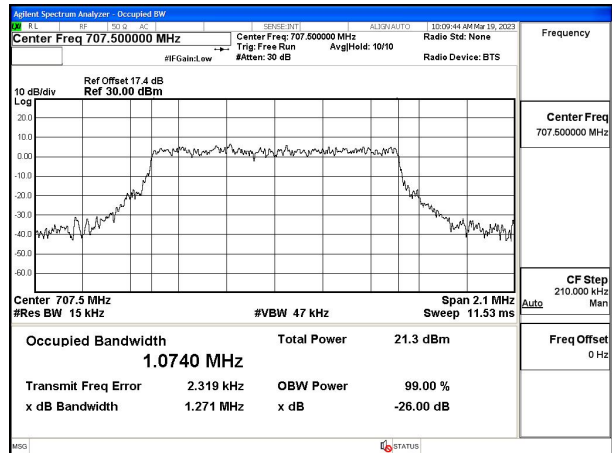


Fig.26

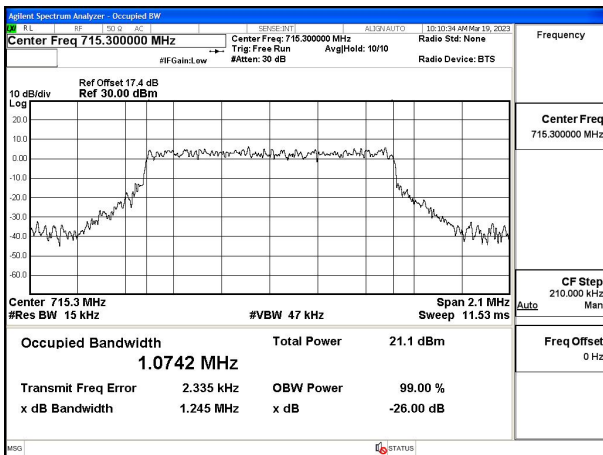


Fig.27

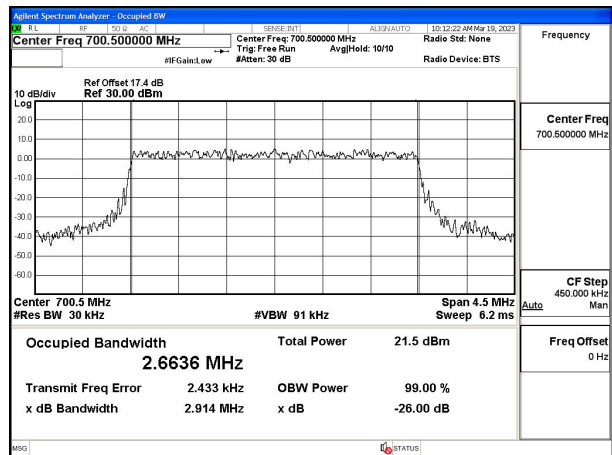


Fig.28

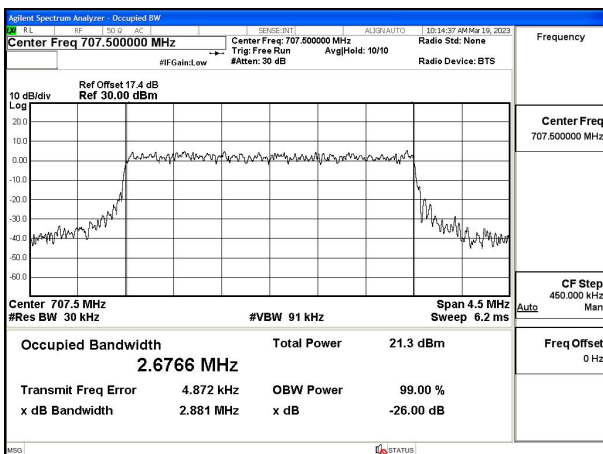


Fig.29

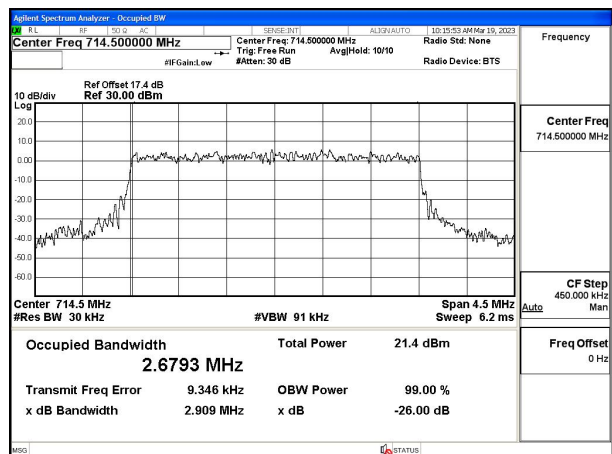


Fig.30

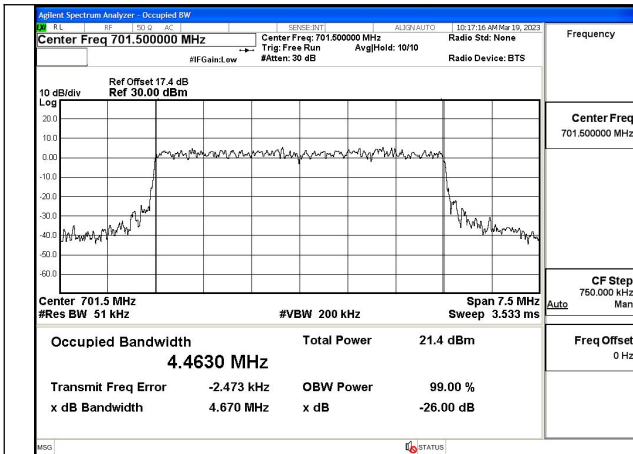


Fig.31

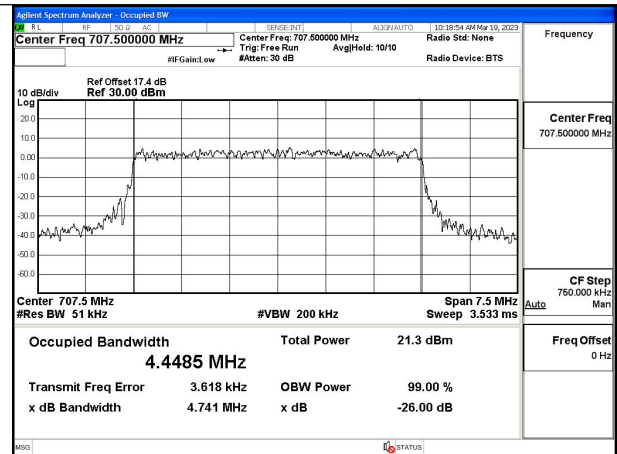


Fig.32

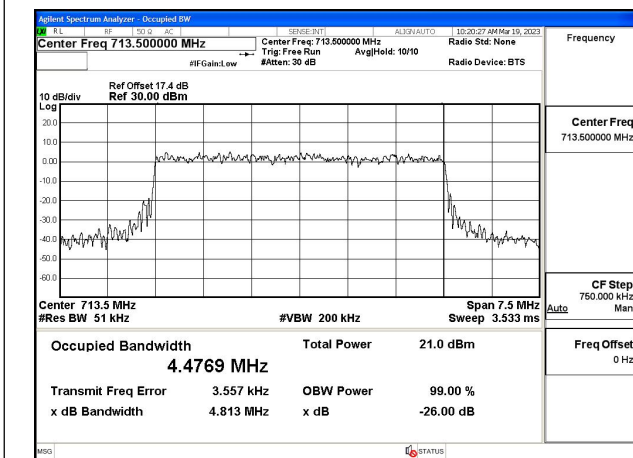


Fig.33

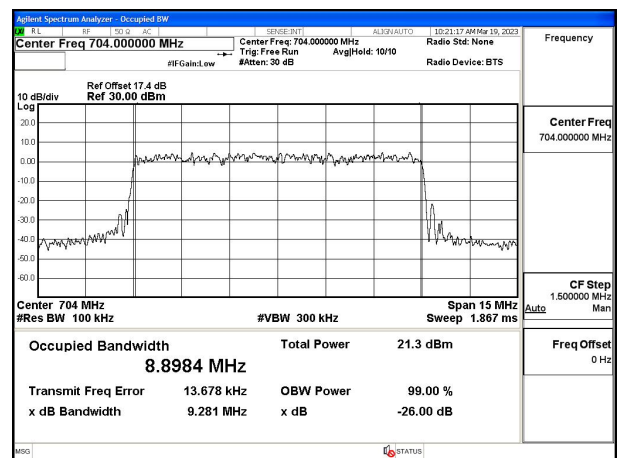


Fig.34

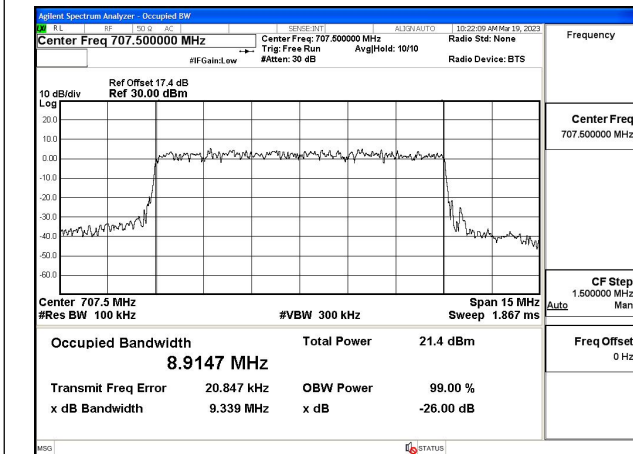


Fig.35

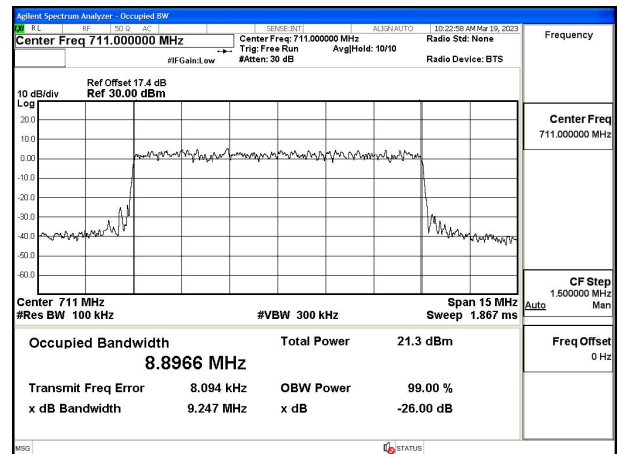


Fig.36

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	1.244	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.246	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.243	Fig.3
12	QPSK	700.5	23025	3	15	0	2.838	Fig.4
12	QPSK	707.5	23095	3	15	0	2.869	Fig.5
12	QPSK	714.5	23165	3	15	0	2.862	Fig.6
12	QPSK	701.5	23035	5	25	0	4.798	Fig.7
12	QPSK	707.5	23095	5	25	0	4.766	Fig.8
12	QPSK	713.5	23155	5	25	0	4.664	Fig.9
12	QPSK	704	23060	10	50	0	9.268	Fig.10
12	QPSK	707.5	23095	10	50	0	9.311	Fig.11
12	QPSK	711	23130	10	50	0	9.252	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	1.231	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.274	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.266	Fig.15
12	16QAM	700.5	23025	3	15	0	2.869	Fig.16
12	16QAM	707.5	23095	3	15	0	2.894	Fig.17
12	16QAM	714.5	23165	3	15	0	2.891	Fig.18
12	16QAM	701.5	23035	5	25	0	4.714	Fig.19
12	16QAM	707.5	23095	5	25	0	4.725	Fig.20
12	16QAM	713.5	23155	5	25	0	4.879	Fig.21
12	16QAM	704	23060	10	50	0	9.519	Fig.22
12	16QAM	707.5	23095	10	50	0	9.240	Fig.23
12	16QAM	711	23130	10	50	0	9.408	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	1.263	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.271	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.245	Fig.27
12	64QAM	700.5	23025	3	15	0	2.914	Fig.28
12	64QAM	707.5	23095	3	15	0	2.881	Fig.29
12	64QAM	714.5	23165	3	15	0	2.909	Fig.30
12	64QAM	701.5	23035	5	25	0	4.670	Fig.31
12	64QAM	707.5	23095	5	25	0	4.741	Fig.32
12	64QAM	713.5	23155	5	25	0	4.813	Fig.33
12	64QAM	704	23060	10	50	0	9.281	Fig.34
12	64QAM	707.5	23095	10	50	0	9.339	Fig.35
12	64QAM	711	23130	10	50	0	9.247	Fig.36

Test Mode: QPSK

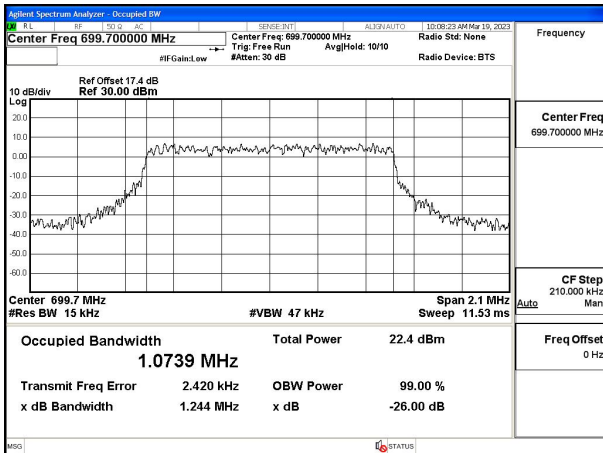


Fig.1

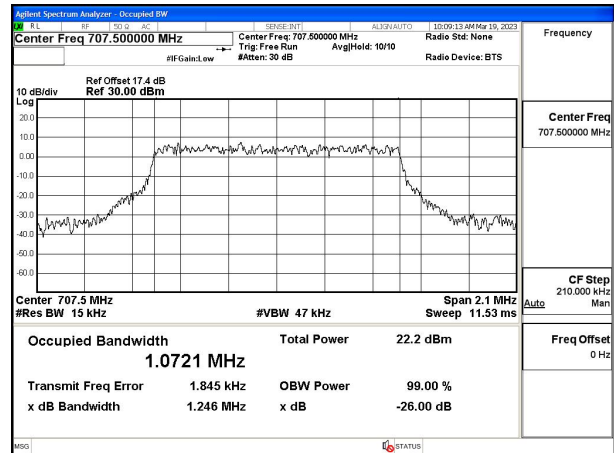


Fig.2

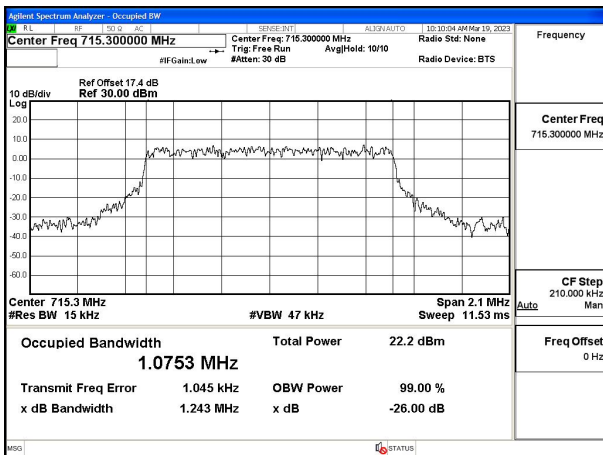


Fig.3

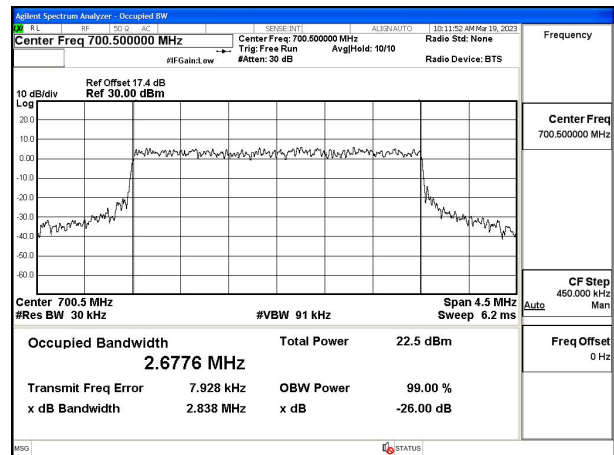


Fig.4

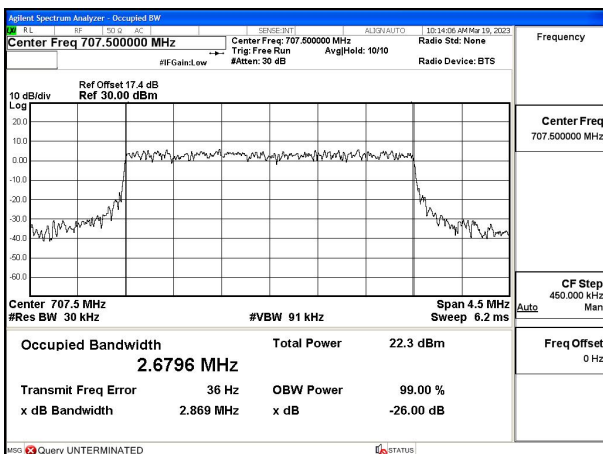


Fig.5

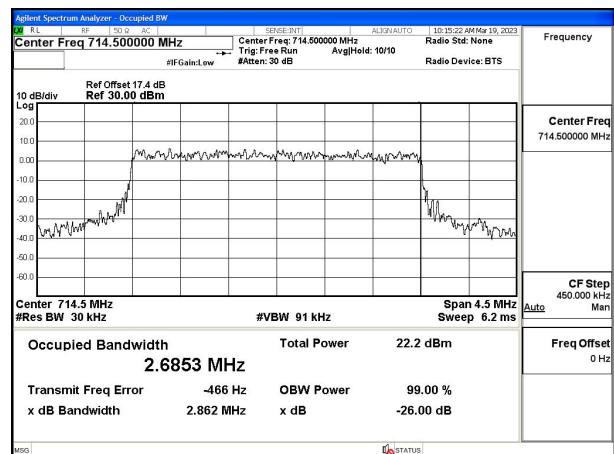


Fig.6