

## 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	23.42
QPSK	699.7	23017	1.4	1	3	23.34
QPSK	699.7	23017	1.4	1	5	23.18
QPSK	699.7	23017	1.4	3	0	23.42
QPSK	699.7	23017	1.4	3	1	23.48
QPSK	699.7	23017	1.4	3	3	23.45
QPSK	699.7	23017	1.4	6	0	22.27
QPSK	707.5	23095	1.4	1	0	23.43
QPSK	707.5	23095	1.4	1	3	23.50
QPSK	707.5	23095	1.4	1	5	23.54
QPSK	707.5	23095	1.4	3	0	23.56
QPSK	707.5	23095	1.4	3	1	23.61
QPSK	707.5	23095	1.4	3	3	23.55
QPSK	707.5	23095	1.4	6	0	22.44
QPSK	715.3	23173	1.4	1	0	23.57
QPSK	715.3	23173	1.4	1	3	23.43
QPSK	715.3	23173	1.4	1	5	23.41
QPSK	715.3	23173	1.4	3	0	23.40
QPSK	715.3	23173	1.4	3	1	23.50
QPSK	715.3	23173	1.4	3	3	23.43
QPSK	715.3	23173	1.4	6	0	22.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.51
16QAM	699.7	23017	1.4	1	3	22.61
16QAM	699.7	23017	1.4	1	5	22.63
16QAM	699.7	23017	1.4	3	0	22.55
16QAM	699.7	23017	1.4	3	1	22.35
16QAM	699.7	23017	1.4	3	3	22.44
16QAM	699.7	23017	1.4	6	0	21.63
16QAM	707.5	23095	1.4	1	0	23.04
16QAM	707.5	23095	1.4	1	3	23.25
16QAM	707.5	23095	1.4	1	5	22.61
16QAM	707.5	23095	1.4	3	0	22.77
16QAM	707.5	23095	1.4	3	1	22.65
16QAM	707.5	23095	1.4	3	3	22.82
16QAM	707.5	23095	1.4	6	0	21.05
16QAM	715.3	23173	1.4	1	0	22.77
16QAM	715.3	23173	1.4	1	3	22.80
16QAM	715.3	23173	1.4	1	5	22.94
16QAM	715.3	23173	1.4	3	0	22.62
16QAM	715.3	23173	1.4	3	1	22.57
16QAM	715.3	23173	1.4	3	3	22.51
16QAM	715.3	23173	1.4	6	0	21.34
64QAM	699.7	23017	1.4	1	0	22.58
64QAM	699.7	23017	1.4	1	3	22.28
64QAM	699.7	23017	1.4	1	5	22.47
64QAM	699.7	23017	1.4	3	0	21.50
64QAM	699.7	23017	1.4	3	1	22.16
64QAM	699.7	23017	1.4	3	3	21.85
64QAM	699.7	23017	1.4	6	0	20.84
64QAM	707.5	23095	1.4	1	0	21.38
64QAM	707.5	23095	1.4	1	3	21.38
64QAM	707.5	23095	1.4	1	5	21.13
64QAM	707.5	23095	1.4	3	0	21.05
64QAM	707.5	23095	1.4	3	1	21.32
64QAM	707.5	23095	1.4	3	3	21.24
64QAM	707.5	23095	1.4	6	0	20.42
64QAM	715.3	23173	1.4	1	0	22.03
64QAM	715.3	23173	1.4	1	3	22.02
64QAM	715.3	23173	1.4	1	5	21.81
64QAM	715.3	23173	1.4	3	0	21.35
64QAM	715.3	23173	1.4	3	1	21.34
64QAM	715.3	23173	1.4	3	3	21.20
64QAM	715.3	23173	1.4	6	0	20.23

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.48
QPSK	700.5	23025	3	1	8	23.32
QPSK	700.5	23025	3	1	14	23.60
QPSK	700.5	23025	3	8	0	22.67
QPSK	700.5	23025	3	8	4	22.50
QPSK	700.5	23025	3	8	7	22.49
QPSK	700.5	23025	3	15	0	22.44
QPSK	707.5	23095	3	1	0	23.72
QPSK	707.5	23095	3	1	8	23.55
QPSK	707.5	23095	3	1	14	23.39
QPSK	707.5	23095	3	8	0	22.61
QPSK	707.5	23095	3	8	4	22.50
QPSK	707.5	23095	3	8	7	22.41
QPSK	707.5	23095	3	15	0	22.45
QPSK	714.5	23165	3	1	0	23.44
QPSK	714.5	23165	3	1	8	23.44
QPSK	714.5	23165	3	1	14	23.24
QPSK	714.5	23165	3	8	0	22.55
QPSK	714.5	23165	3	8	4	22.58
QPSK	714.5	23165	3	8	7	22.52
QPSK	714.5	23165	3	15	0	22.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	23.30
16QAM	700.5	23025	3	1	8	22.54
16QAM	700.5	23025	3	1	14	23.14
16QAM	700.5	23025	3	8	0	22.14
16QAM	700.5	23025	3	8	4	21.84
16QAM	700.5	23025	3	8	7	21.63
16QAM	700.5	23025	3	15	0	22.05
16QAM	707.5	23095	3	1	0	22.79
16QAM	707.5	23095	3	1	8	22.58
16QAM	707.5	23095	3	1	14	23.08
16QAM	707.5	23095	3	8	0	21.31
16QAM	707.5	23095	3	8	4	21.41
16QAM	707.5	23095	3	8	7	21.36
16QAM	707.5	23095	3	15	0	21.43
16QAM	714.5	23165	3	1	0	22.91
16QAM	714.5	23165	3	1	8	22.68
16QAM	714.5	23165	3	1	14	23.04
16QAM	714.5	23165	3	8	0	21.73
16QAM	714.5	23165	3	8	4	21.59
16QAM	714.5	23165	3	8	7	21.60
16QAM	714.5	23165	3	15	0	21.79
64QAM	700.5	23025	3	1	0	22.32
64QAM	700.5	23025	3	1	8	22.35
64QAM	700.5	23025	3	1	14	21.64
64QAM	700.5	23025	3	8	0	20.86
64QAM	700.5	23025	3	8	4	21.01
64QAM	700.5	23025	3	8	7	20.84
64QAM	700.5	23025	3	15	0	21.00
64QAM	707.5	23095	3	1	0	22.01
64QAM	707.5	23095	3	1	8	21.59
64QAM	707.5	23095	3	1	14	21.57
64QAM	707.5	23095	3	8	0	20.59
64QAM	707.5	23095	3	8	4	20.33
64QAM	707.5	23095	3	8	7	20.20
64QAM	707.5	23095	3	15	0	20.47
64QAM	714.5	23165	3	1	0	21.24
64QAM	714.5	23165	3	1	8	22.03
64QAM	714.5	23165	3	1	14	21.80
64QAM	714.5	23165	3	8	0	20.33
64QAM	714.5	23165	3	8	4	20.14
64QAM	714.5	23165	3	8	7	20.14
64QAM	714.5	23165	3	15	0	20.61

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.38
QPSK	701.5	23035	5	1	12	23.59
QPSK	701.5	23035	5	1	24	23.61
QPSK	701.5	23035	5	12	0	22.26
QPSK	701.5	23035	5	12	7	22.37
QPSK	701.5	23035	5	12	13	22.36
QPSK	701.5	23035	5	25	0	22.50
QPSK	707.5	23095	5	1	0	23.63
QPSK	707.5	23095	5	1	12	23.56
QPSK	707.5	23095	5	1	24	23.60
QPSK	707.5	23095	5	12	0	22.34
QPSK	707.5	23095	5	12	7	22.46
QPSK	707.5	23095	5	12	13	22.25
QPSK	707.5	23095	5	25	0	22.32
QPSK	713.5	23155	5	1	0	23.79
QPSK	713.5	23155	5	1	12	23.72
QPSK	713.5	23155	5	1	24	23.83
QPSK	713.5	23155	5	12	0	22.68
QPSK	713.5	23155	5	12	7	22.50
QPSK	713.5	23155	5	12	13	22.53
QPSK	713.5	23155	5	25	0	22.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.28
16QAM	701.5	23035	5	1	12	23.15
16QAM	701.5	23035	5	1	24	22.82
16QAM	701.5	23035	5	12	0	21.64
16QAM	701.5	23035	5	12	7	21.27
16QAM	701.5	23035	5	12	13	21.21
16QAM	701.5	23035	5	25	0	21.23
16QAM	707.5	23095	5	1	0	22.46
16QAM	707.5	23095	5	1	12	22.41
16QAM	707.5	23095	5	1	24	22.59
16QAM	707.5	23095	5	12	0	21.20
16QAM	707.5	23095	5	12	7	21.38
16QAM	707.5	23095	5	12	13	21.33
16QAM	707.5	23095	5	25	0	21.40
16QAM	713.5	23155	5	1	0	22.71
16QAM	713.5	23155	5	1	12	22.46
16QAM	713.5	23155	5	1	24	22.60
16QAM	713.5	23155	5	12	0	21.33
16QAM	713.5	23155	5	12	7	21.60
16QAM	713.5	23155	5	12	13	21.47
16QAM	713.5	23155	5	25	0	21.73
64QAM	701.5	23035	5	1	0	21.54
64QAM	701.5	23035	5	1	12	20.88
64QAM	701.5	23035	5	1	24	21.27
64QAM	701.5	23035	5	12	0	20.91
64QAM	701.5	23035	5	12	7	20.89
64QAM	701.5	23035	5	12	13	20.78
64QAM	701.5	23035	5	25	0	20.93
64QAM	707.5	23095	5	1	0	21.33
64QAM	707.5	23095	5	1	12	21.48
64QAM	707.5	23095	5	1	24	20.71
64QAM	707.5	23095	5	12	0	20.41
64QAM	707.5	23095	5	12	7	20.39
64QAM	707.5	23095	5	12	13	20.57
64QAM	707.5	23095	5	25	0	20.43
64QAM	713.5	23155	5	1	0	21.56
64QAM	713.5	23155	5	1	12	21.55
64QAM	713.5	23155	5	1	24	21.60
64QAM	713.5	23155	5	12	0	21.03
64QAM	713.5	23155	5	12	7	20.70
64QAM	713.5	23155	5	12	13	20.39
64QAM	713.5	23155	5	25	0	20.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.32
QPSK	704	23060	10	1	25	23.75
QPSK	704	23060	10	1	49	23.52
QPSK	704	23060	10	25	0	22.22
QPSK	704	23060	10	25	12	22.56
QPSK	704	23060	10	25	25	22.47
QPSK	704	23060	10	50	0	22.44
QPSK	707.5	23095	10	1	0	23.71
QPSK	707.5	23095	10	1	25	23.64
QPSK	707.5	23095	10	1	49	23.58
QPSK	707.5	23095	10	25	0	22.39
QPSK	707.5	23095	10	25	12	22.40
QPSK	707.5	23095	10	25	25	22.45
QPSK	707.5	23095	10	50	0	22.36
QPSK	711	23130	10	1	0	23.61
QPSK	711	23130	10	1	25	23.58
QPSK	711	23130	10	1	49	23.52
QPSK	711	23130	10	25	0	22.34
QPSK	711	23130	10	25	12	22.53
QPSK	711	23130	10	25	25	22.57
QPSK	711	23130	10	50	0	22.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	22.77
16QAM	704	23060	10	1	25	22.75
16QAM	704	23060	10	1	49	23.14
16QAM	704	23060	10	25	0	21.33
16QAM	704	23060	10	25	12	21.52
16QAM	704	23060	10	25	25	21.38
16QAM	704	23060	10	50	0	21.66
16QAM	707.5	23095	10	1	0	23.00
16QAM	707.5	23095	10	1	25	22.42
16QAM	707.5	23095	10	1	49	22.38
16QAM	707.5	23095	10	25	0	21.51
16QAM	707.5	23095	10	25	12	21.49
16QAM	707.5	23095	10	25	25	21.30
16QAM	707.5	23095	10	50	0	21.38
16QAM	711	23130	10	1	0	23.06
16QAM	711	23130	10	1	25	23.25
16QAM	711	23130	10	1	49	22.68
16QAM	711	23130	10	25	0	21.24
16QAM	711	23130	10	25	12	21.25
16QAM	711	23130	10	25	25	21.36
16QAM	711	23130	10	50	0	21.03
64QAM	704	23060	10	1	0	22.21
64QAM	704	23060	10	1	25	21.04
64QAM	704	23060	10	1	49	21.37
64QAM	704	23060	10	25	0	20.72
64QAM	704	23060	10	25	12	20.93
64QAM	704	23060	10	25	25	20.27
64QAM	704	23060	10	50	0	20.94
64QAM	707.5	23095	10	1	0	20.91
64QAM	707.5	23095	10	1	25	21.30
64QAM	707.5	23095	10	1	49	20.98
64QAM	707.5	23095	10	25	0	20.42
64QAM	707.5	23095	10	25	12	20.43
64QAM	707.5	23095	10	25	25	20.31
64QAM	707.5	23095	10	50	0	20.31
64QAM	711	23130	10	1	0	21.59
64QAM	711	23130	10	1	25	21.45
64QAM	711	23130	10	1	49	21.29
64QAM	711	23130	10	25	0	20.29
64QAM	711	23130	10	25	12	20.29
64QAM	711	23130	10	25	25	20.36
64QAM	711	23130	10	50	0	20.33

## 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	1.070	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.080	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.070	Fig.3
12	QPSK	700.5	23025	3	15	0	2.680	Fig.4
12	QPSK	707.5	23095	3	15	0	2.670	Fig.5
12	QPSK	714.5	23165	3	15	0	2.670	Fig.6
12	QPSK	701.5	23035	5	25	0	4.440	Fig.7
12	QPSK	707.5	23095	5	25	0	4.440	Fig.8
12	QPSK	713.5	23155	5	25	0	4.460	Fig.9
12	QPSK	704	23060	10	50	0	8.910	Fig.10
12	QPSK	707.5	23095	10	50	0	8.890	Fig.11
12	QPSK	711	23130	10	50	0	8.920	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	1.070	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.080	Fig.15
12	16QAM	700.5	23025	3	15	0	2.660	Fig.16
12	16QAM	707.5	23095	3	15	0	2.670	Fig.17
12	16QAM	714.5	23165	3	15	0	2.670	Fig.18
12	16QAM	701.5	23035	5	25	0	4.450	Fig.19
12	16QAM	707.5	23095	5	25	0	4.460	Fig.20
12	16QAM	713.5	23155	5	25	0	4.470	Fig.21
12	16QAM	704	23060	10	50	0	8.910	Fig.22
12	16QAM	707.5	23095	10	50	0	8.900	Fig.23
12	16QAM	711	23130	10	50	0	8.900	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	1.070	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.080	Fig.27
12	64QAM	700.5	23025	3	15	0	2.670	Fig.28
12	64QAM	707.5	23095	3	15	0	2.680	Fig.29
12	64QAM	714.5	23165	3	15	0	2.680	Fig.30
12	64QAM	701.5	23035	5	25	0	4.470	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	8.900	Fig.34
12	64QAM	707.5	23095	10	50	0	8.920	Fig.35
12	64QAM	711	23130	10	50	0	8.920	Fig.36

Test Mode: QPSK

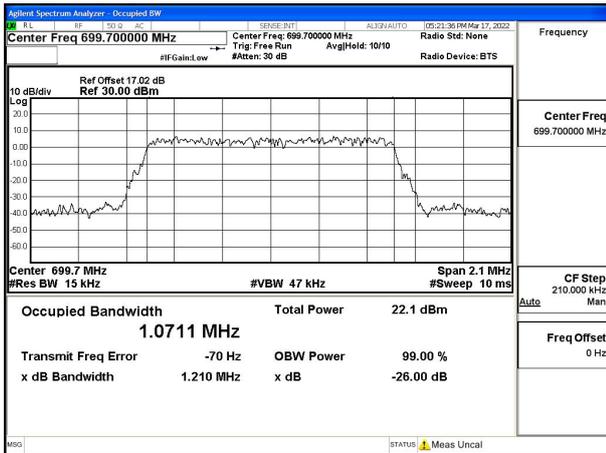


Fig.1

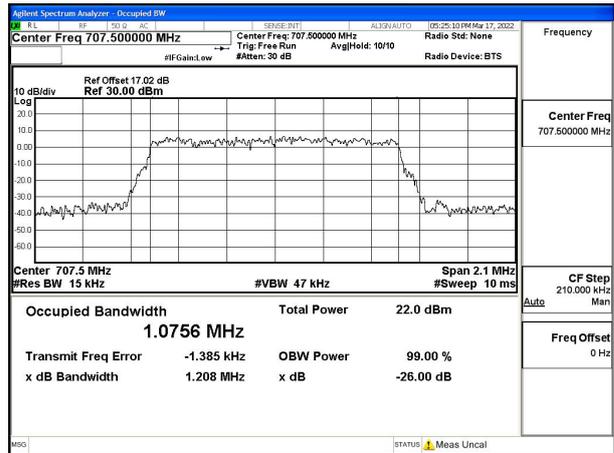


Fig.2

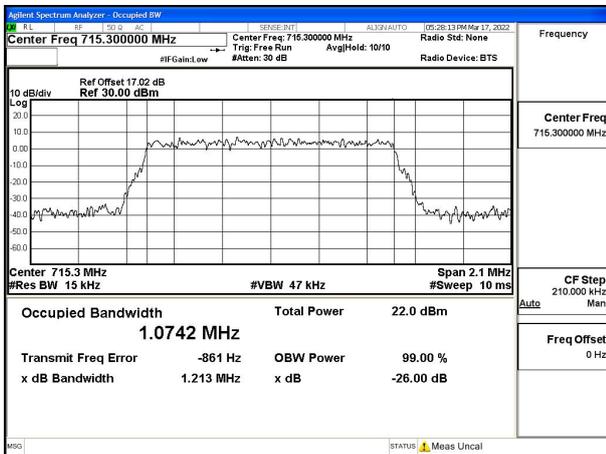


Fig.3

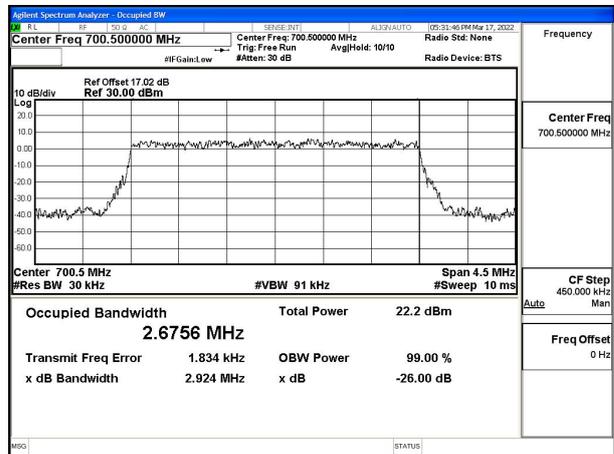


Fig.4

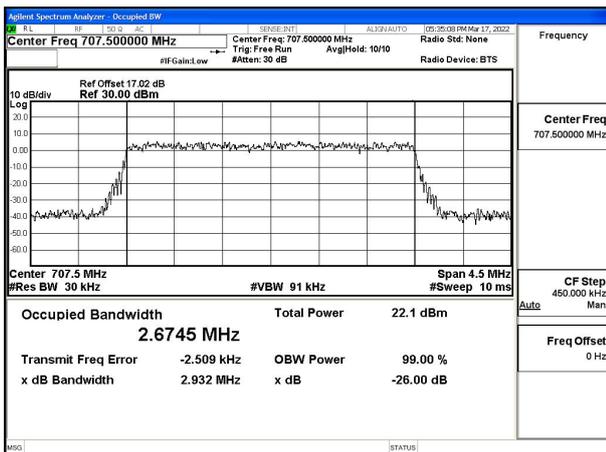


Fig.5

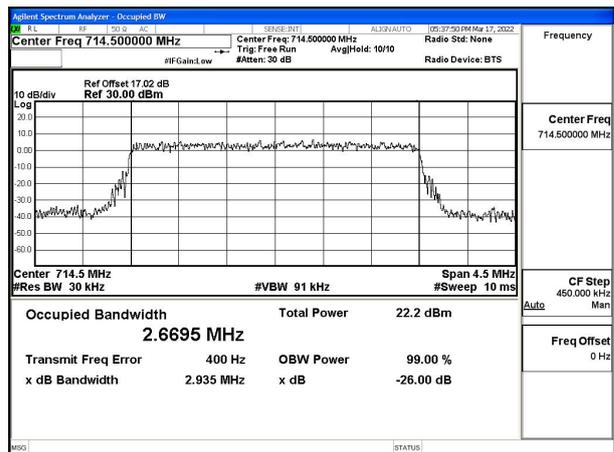


Fig.6

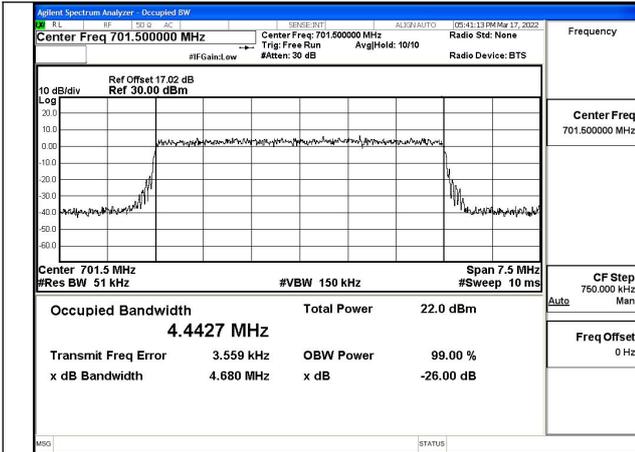


Fig.7

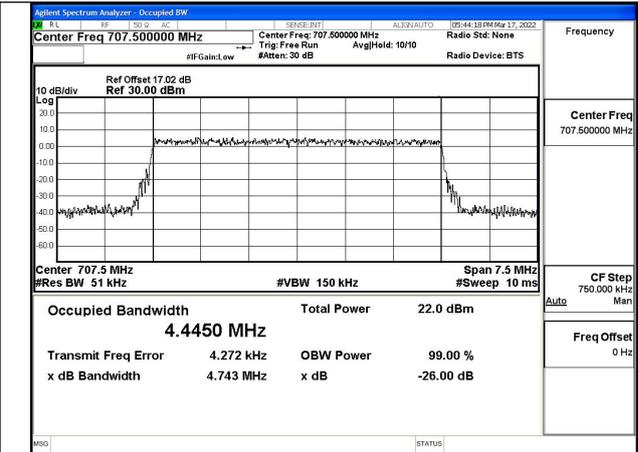


Fig.8

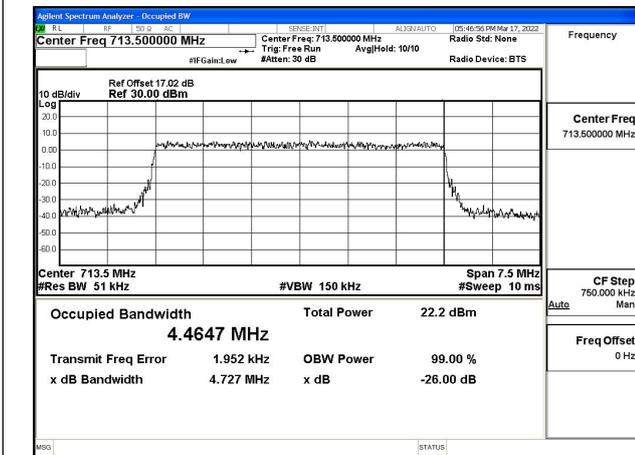


Fig.9

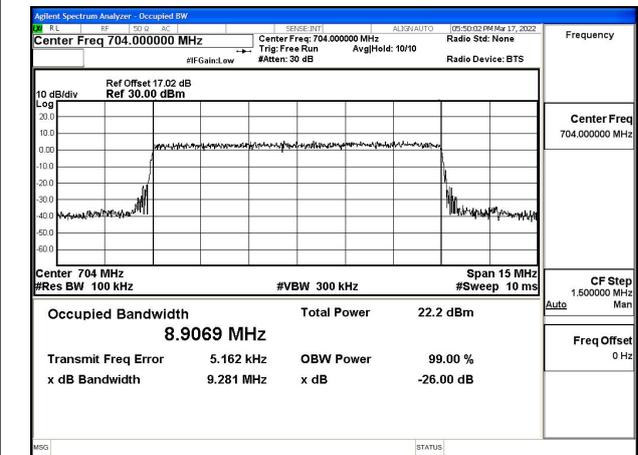


Fig.10

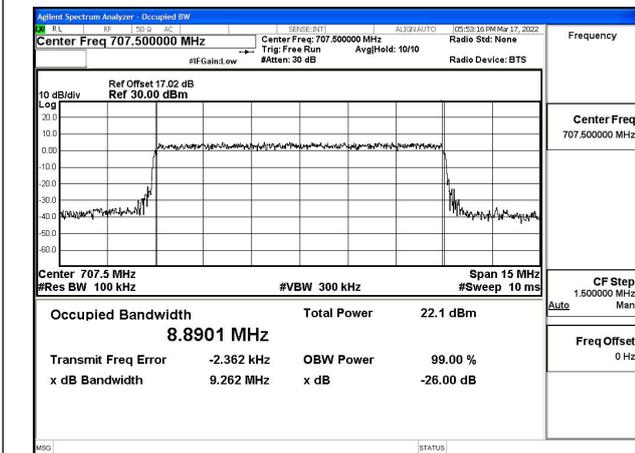


Fig.11

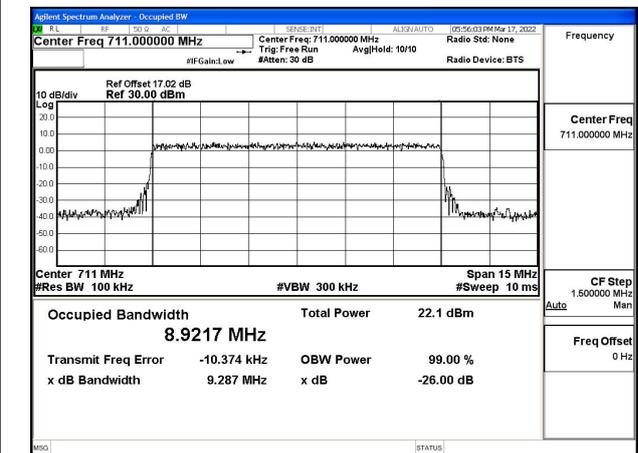


Fig.12

Test Mode: 16QAM

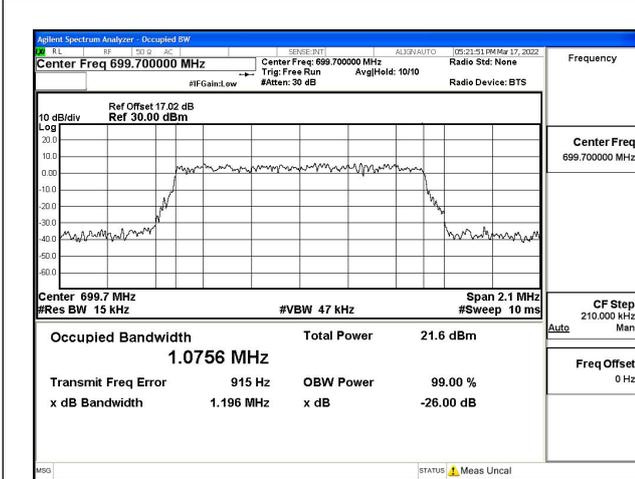


Fig.13

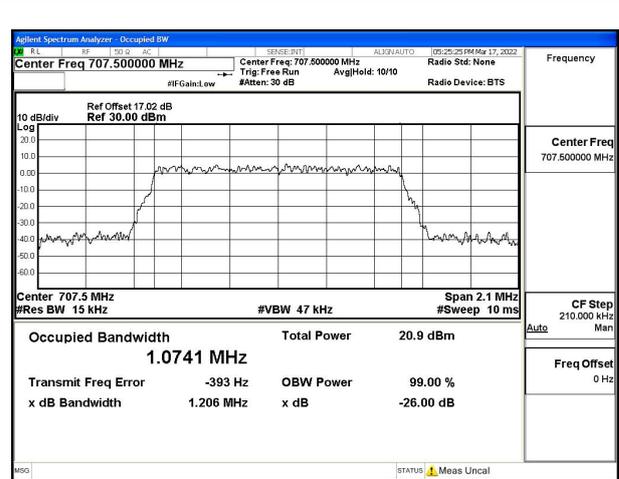


Fig.14

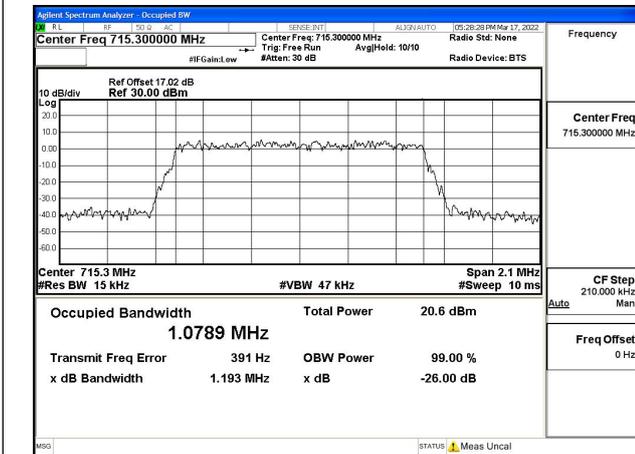


Fig.15

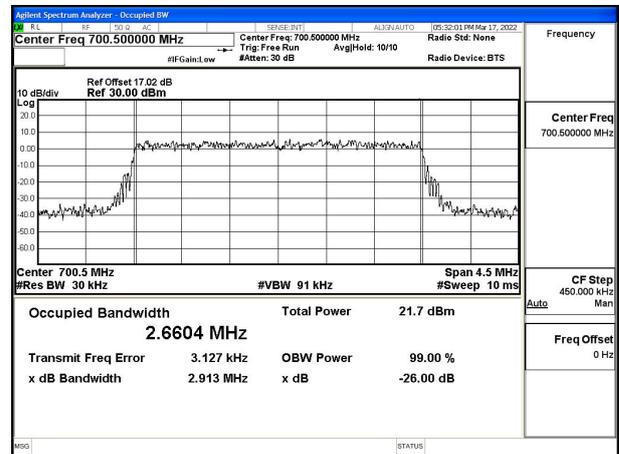


Fig.16

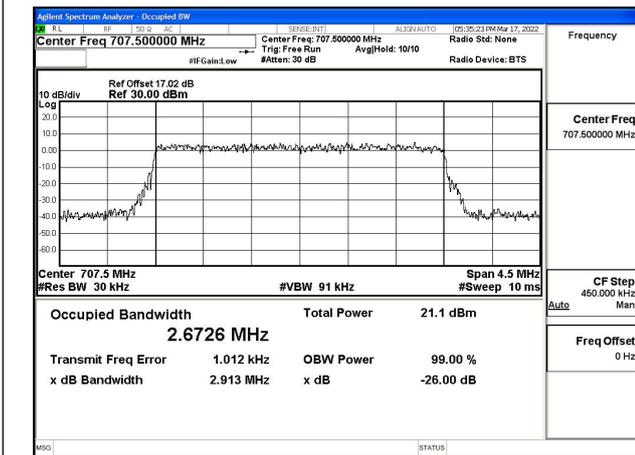


Fig.17

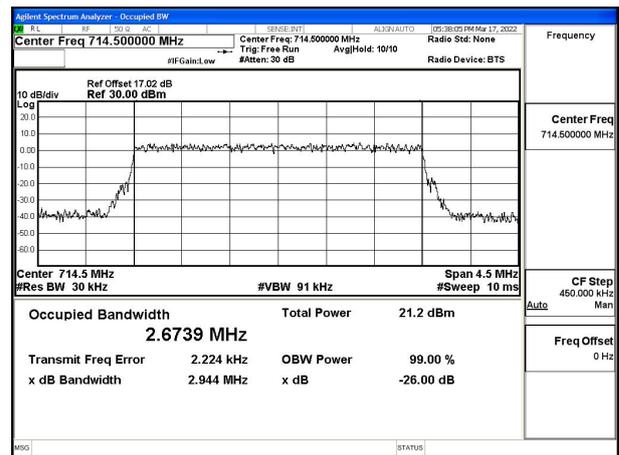


Fig.18

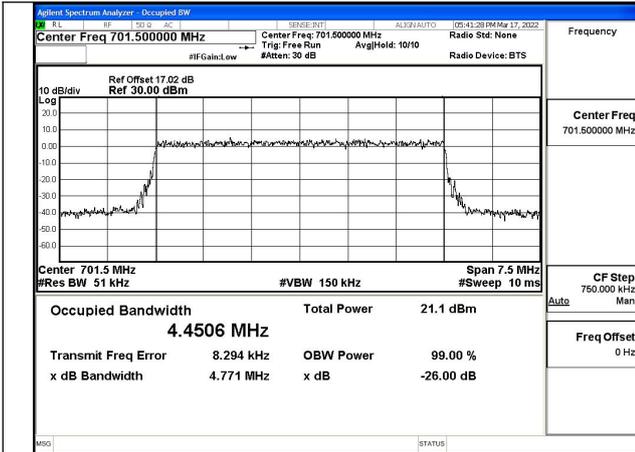


Fig.19

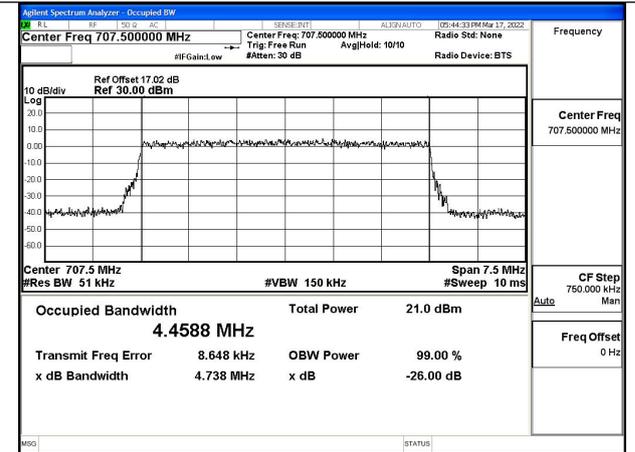


Fig.20

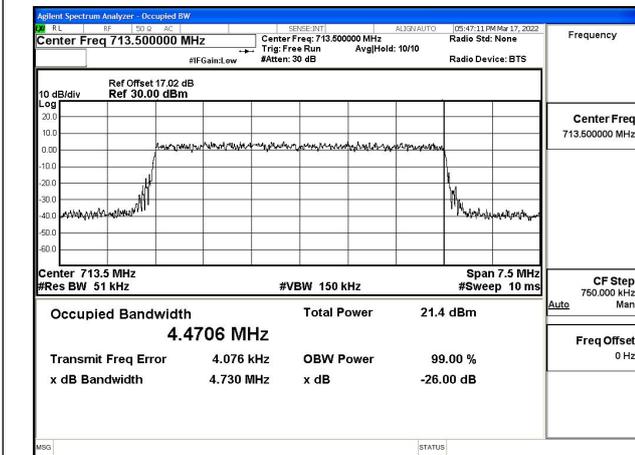


Fig.21

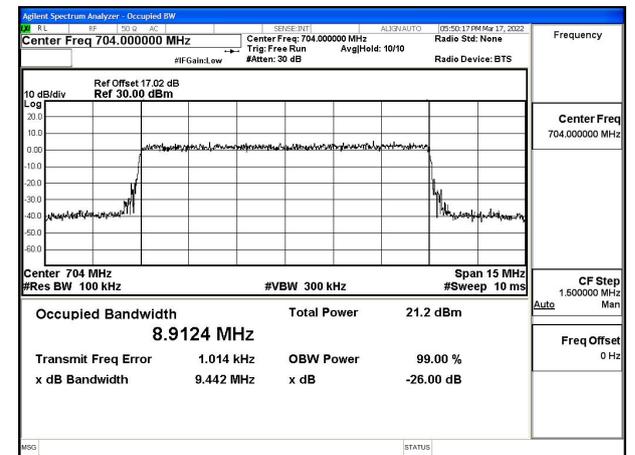


Fig.22

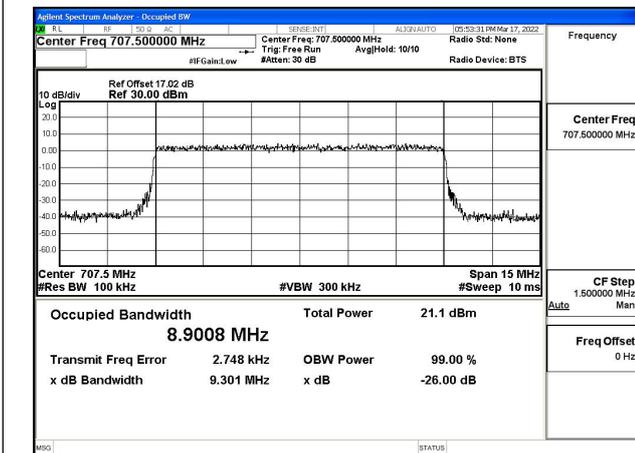


Fig.23

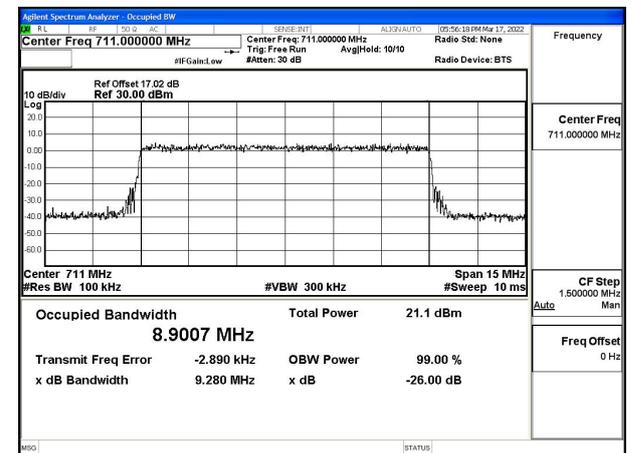


Fig.24

Test Mode: 64QAM

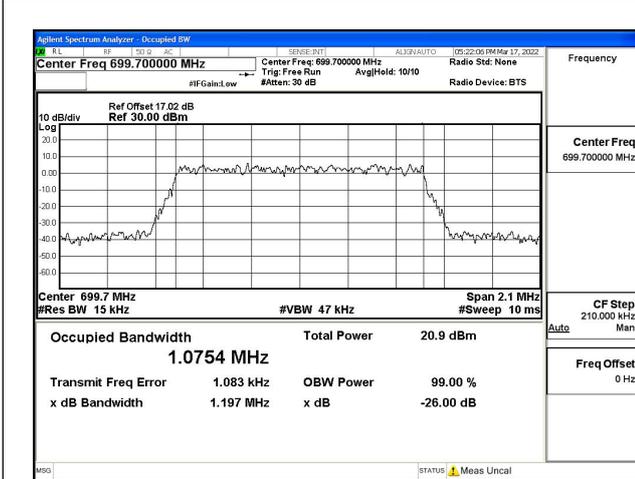


Fig.25

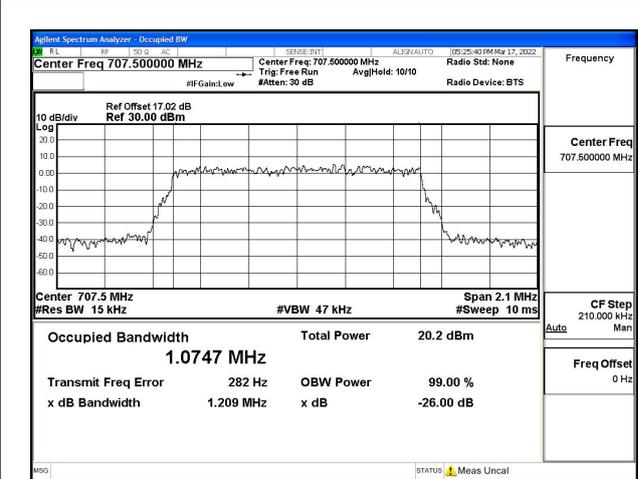


Fig.26

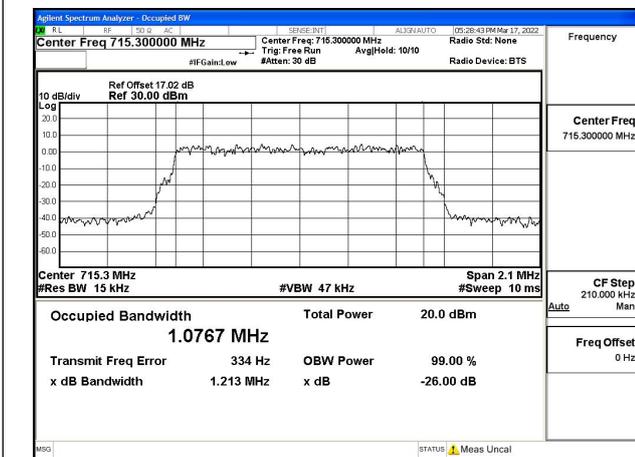


Fig.27

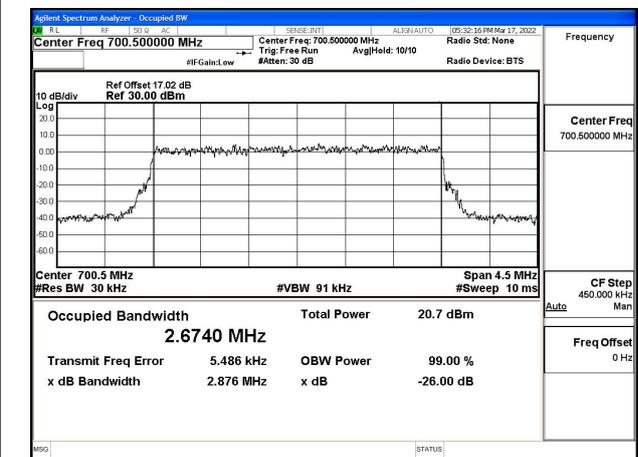


Fig.28

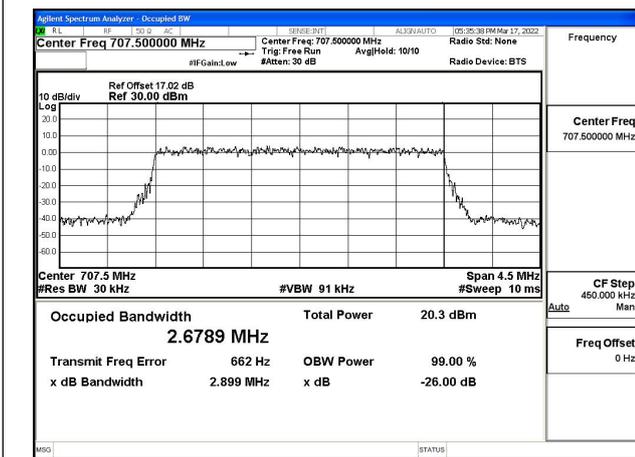


Fig.29

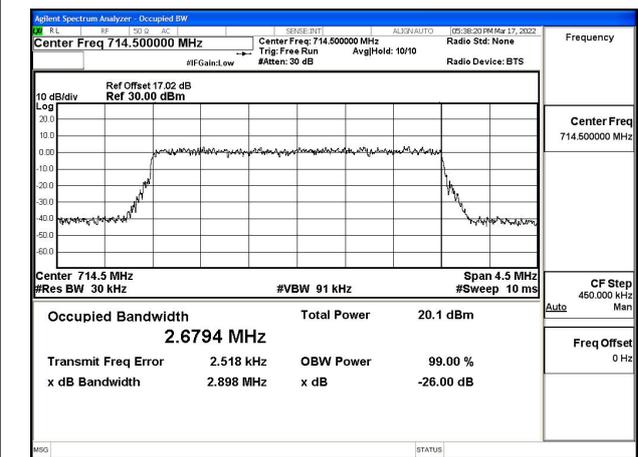


Fig.30

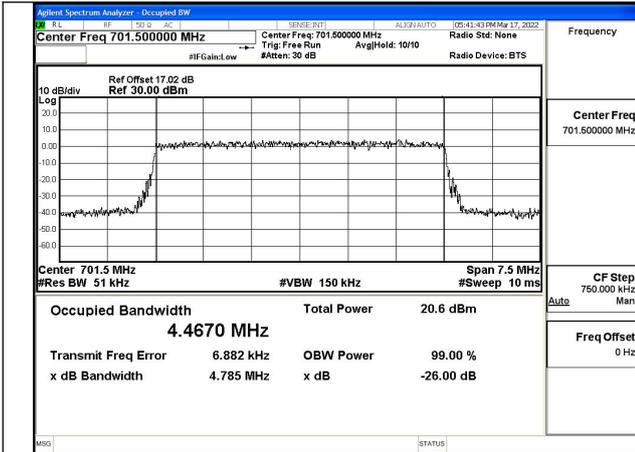


Fig.31

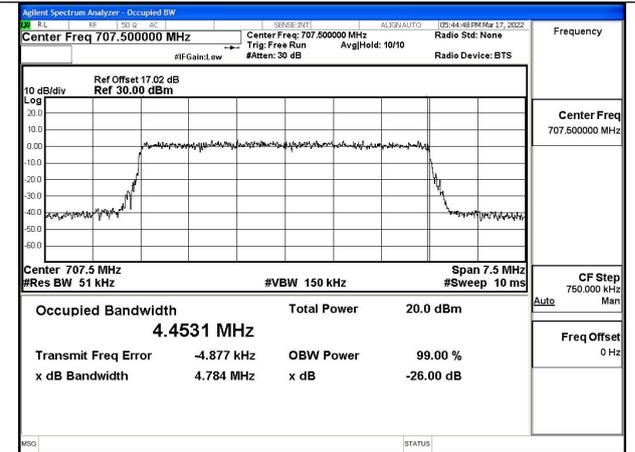


Fig.32

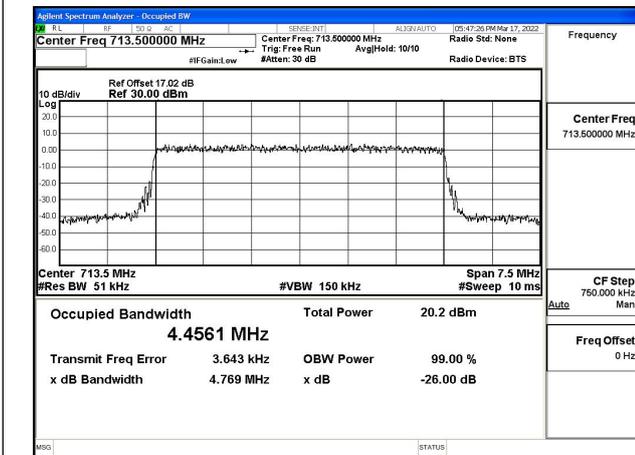


Fig.33

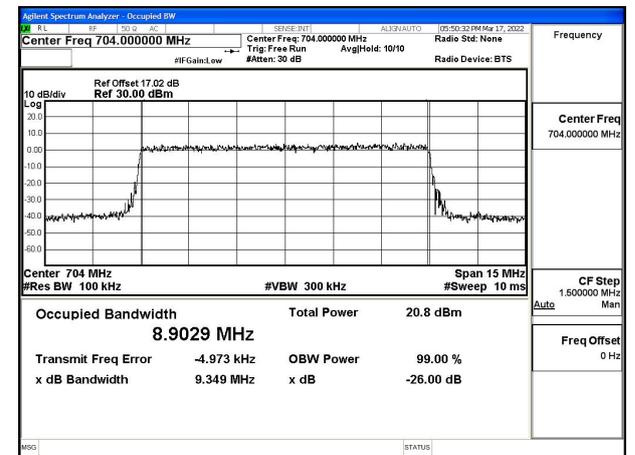


Fig.34

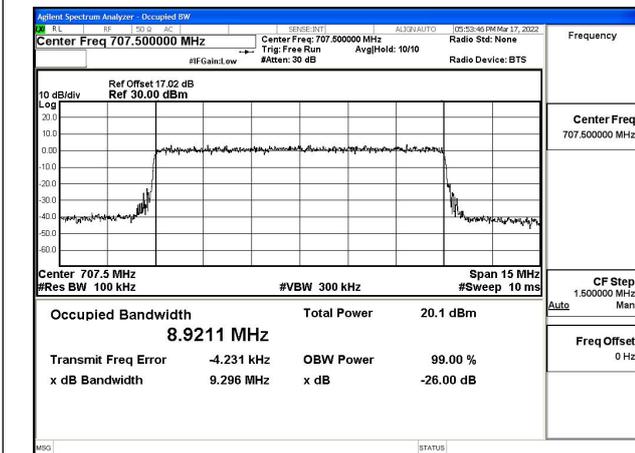


Fig.35

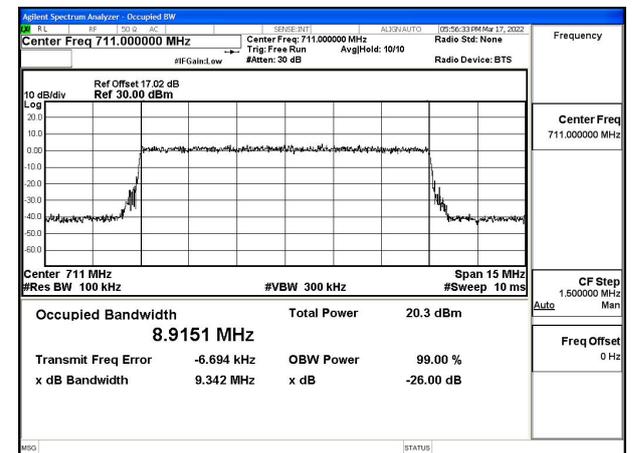


Fig.36

### 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	1.210	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.210	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.210	Fig.3
12	QPSK	700.5	23025	3	15	0	2.920	Fig.4
12	QPSK	707.5	23095	3	15	0	2.930	Fig.5
12	QPSK	714.5	23165	3	15	0	2.930	Fig.6
12	QPSK	701.5	23035	5	25	0	4.680	Fig.7
12	QPSK	707.5	23095	5	25	0	4.740	Fig.8
12	QPSK	713.5	23155	5	25	0	4.730	Fig.9
12	QPSK	704	23060	10	50	0	9.280	Fig.10
12	QPSK	707.5	23095	10	50	0	9.260	Fig.11
12	QPSK	711	23130	10	50	0	9.290	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	1.200	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.210	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.190	Fig.15
12	16QAM	700.5	23025	3	15	0	2.910	Fig.16
12	16QAM	707.5	23095	3	15	0	2.910	Fig.17
12	16QAM	714.5	23165	3	15	0	2.940	Fig.18
12	16QAM	701.5	23035	5	25	0	4.770	Fig.19
12	16QAM	707.5	23095	5	25	0	4.740	Fig.20
12	16QAM	713.5	23155	5	25	0	4.730	Fig.21
12	16QAM	704	23060	10	50	0	9.440	Fig.22
12	16QAM	707.5	23095	10	50	0	9.300	Fig.23
12	16QAM	711	23130	10	50	0	9.280	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	1.200	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.210	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.210	Fig.27
12	64QAM	700.5	23025	3	15	0	2.880	Fig.28
12	64QAM	707.5	23095	3	15	0	2.900	Fig.29
12	64QAM	714.5	23165	3	15	0	2.900	Fig.30
12	64QAM	701.5	23035	5	25	0	4.780	Fig.31
12	64QAM	707.5	23095	5	25	0	4.780	Fig.32
12	64QAM	713.5	23155	5	25	0	4.770	Fig.33
12	64QAM	704	23060	10	50	0	9.350	Fig.34
12	64QAM	707.5	23095	10	50	0	9.300	Fig.35
12	64QAM	711	23130	10	50	0	9.340	Fig.36

Test Mode: QPSK

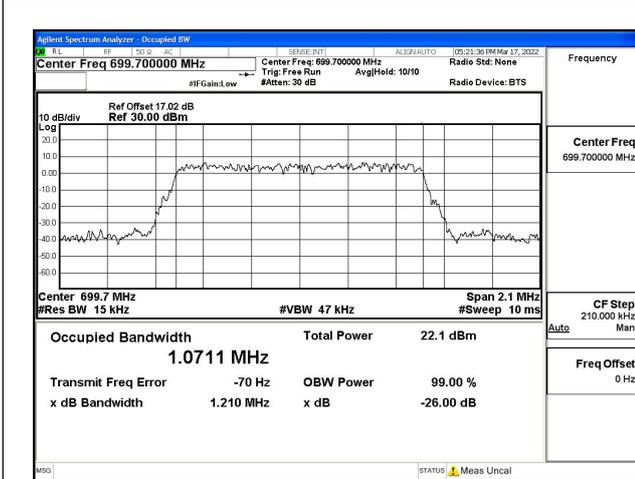


Fig.1

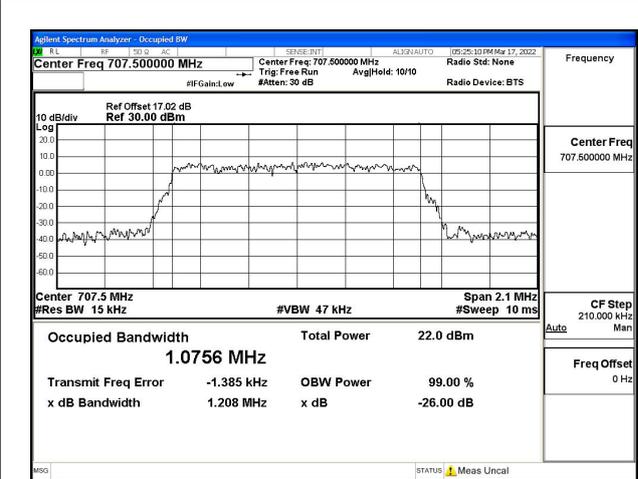


Fig.2

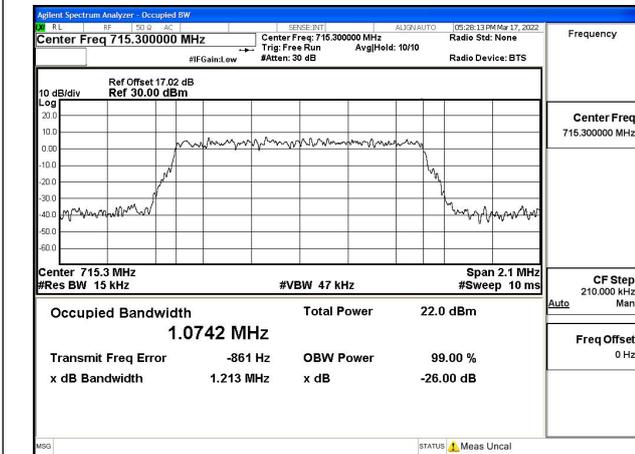


Fig.3

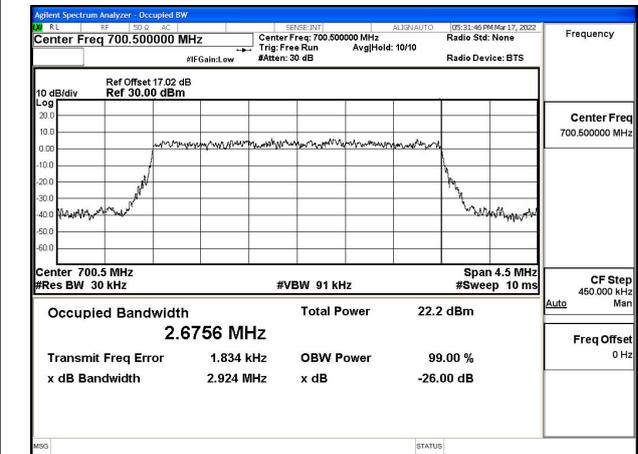


Fig.4

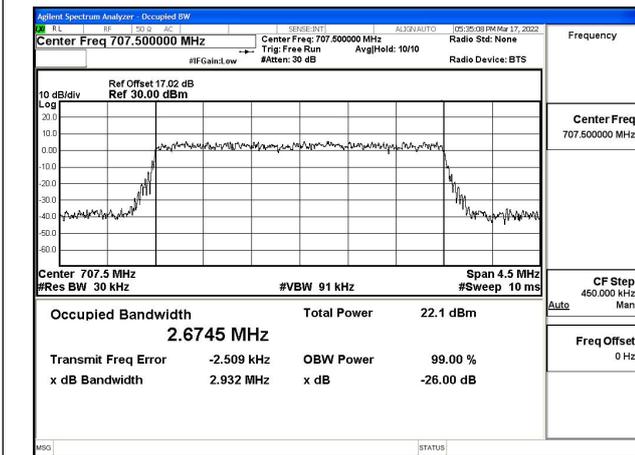


Fig.5

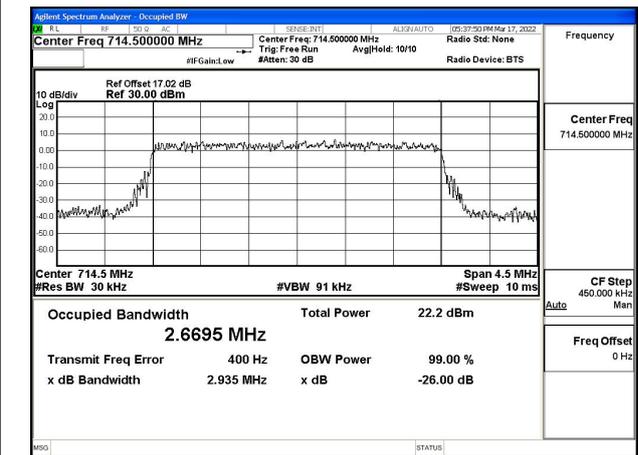


Fig.6