

**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	24.64
QPSK	699.7	23017	1.4	1	3	24.72
QPSK	699.7	23017	1.4	1	5	24.75
QPSK	699.7	23017	1.4	3	0	24.93
QPSK	699.7	23017	1.4	3	1	24.93
QPSK	699.7	23017	1.4	3	3	25.00
QPSK	699.7	23017	1.4	6	0	23.76
QPSK	707.5	23095	1.4	1	0	24.79
QPSK	707.5	23095	1.4	1	3	24.82
QPSK	707.5	23095	1.4	1	5	24.76
QPSK	707.5	23095	1.4	3	0	24.80
QPSK	707.5	23095	1.4	3	1	24.63
QPSK	707.5	23095	1.4	3	3	24.77
QPSK	707.5	23095	1.4	6	0	23.69
QPSK	715.3	23173	1.4	1	0	24.79
QPSK	715.3	23173	1.4	1	3	24.82
QPSK	715.3	23173	1.4	1	5	24.79
QPSK	715.3	23173	1.4	3	0	24.69
QPSK	715.3	23173	1.4	3	1	24.76
QPSK	715.3	23173	1.4	3	3	24.67
QPSK	715.3	23173	1.4	6	0	23.61

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	23.79
16QAM	699.7	23017	1.4	1	3	24.10
16QAM	699.7	23017	1.4	1	5	24.04
16QAM	699.7	23017	1.4	3	0	23.83
16QAM	699.7	23017	1.4	3	1	24.02
16QAM	699.7	23017	1.4	3	3	24.00
16QAM	699.7	23017	1.4	6	0	22.68
16QAM	707.5	23095	1.4	1	0	24.70
16QAM	707.5	23095	1.4	1	3	23.96
16QAM	707.5	23095	1.4	1	5	23.72
16QAM	707.5	23095	1.4	3	0	23.98
16QAM	707.5	23095	1.4	3	1	24.09
16QAM	707.5	23095	1.4	3	3	24.06
16QAM	707.5	23095	1.4	6	0	22.56
16QAM	715.3	23173	1.4	1	0	23.63
16QAM	715.3	23173	1.4	1	3	23.33
16QAM	715.3	23173	1.4	1	5	23.59
16QAM	715.3	23173	1.4	3	0	23.76
16QAM	715.3	23173	1.4	3	1	23.88
16QAM	715.3	23173	1.4	3	3	23.85
16QAM	715.3	23173	1.4	6	0	22.48
64QAM	699.7	23017	1.4	1	0	22.92
64QAM	699.7	23017	1.4	1	3	23.04
64QAM	699.7	23017	1.4	1	5	23.01
64QAM	699.7	23017	1.4	3	0	22.80
64QAM	699.7	23017	1.4	3	1	22.54
64QAM	699.7	23017	1.4	3	3	22.64
64QAM	699.7	23017	1.4	6	0	22.21
64QAM	707.5	23095	1.4	1	0	22.51
64QAM	707.5	23095	1.4	1	3	22.89
64QAM	707.5	23095	1.4	1	5	22.38
64QAM	707.5	23095	1.4	3	0	22.45
64QAM	707.5	23095	1.4	3	1	22.52
64QAM	707.5	23095	1.4	3	3	22.50
64QAM	707.5	23095	1.4	6	0	22.26
64QAM	715.3	23173	1.4	1	0	22.93
64QAM	715.3	23173	1.4	1	3	22.54
64QAM	715.3	23173	1.4	1	5	22.46
64QAM	715.3	23173	1.4	3	0	22.69
64QAM	715.3	23173	1.4	3	1	22.43
64QAM	715.3	23173	1.4	3	3	22.71
64QAM	715.3	23173	1.4	6	0	21.98

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	25.14
QPSK	700.5	23025	3	1	8	25.14
QPSK	700.5	23025	3	1	14	25.14
QPSK	700.5	23025	3	8	0	23.82
QPSK	700.5	23025	3	8	4	23.72
QPSK	700.5	23025	3	8	7	23.86
QPSK	700.5	23025	3	15	0	23.83
QPSK	707.5	23095	3	1	0	25.04
QPSK	707.5	23095	3	1	8	25.01
QPSK	707.5	23095	3	1	14	24.99
QPSK	707.5	23095	3	8	0	23.77
QPSK	707.5	23095	3	8	4	23.83
QPSK	707.5	23095	3	8	7	23.73
QPSK	707.5	23095	3	15	0	23.76
QPSK	714.5	23165	3	1	0	24.62
QPSK	714.5	23165	3	1	8	24.61
QPSK	714.5	23165	3	1	14	24.58
QPSK	714.5	23165	3	8	0	23.78
QPSK	714.5	23165	3	8	4	23.73
QPSK	714.5	23165	3	8	7	23.78
QPSK	714.5	23165	3	15	0	23.68

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	24.16
16QAM	700.5	23025	3	1	8	23.53
16QAM	700.5	23025	3	1	14	23.83
16QAM	700.5	23025	3	8	0	22.97
16QAM	700.5	23025	3	8	4	23.03
16QAM	700.5	23025	3	8	7	23.37
16QAM	700.5	23025	3	15	0	22.70
16QAM	707.5	23095	3	1	0	24.11
16QAM	707.5	23095	3	1	8	23.93
16QAM	707.5	23095	3	1	14	23.53
16QAM	707.5	23095	3	8	0	22.99
16QAM	707.5	23095	3	8	4	22.86
16QAM	707.5	23095	3	8	7	22.91
16QAM	707.5	23095	3	15	0	22.71
16QAM	714.5	23165	3	1	0	24.42
16QAM	714.5	23165	3	1	8	24.15
16QAM	714.5	23165	3	1	14	24.24
16QAM	714.5	23165	3	8	0	22.90
16QAM	714.5	23165	3	8	4	22.86
16QAM	714.5	23165	3	8	7	22.73
16QAM	714.5	23165	3	15	0	22.92
64QAM	700.5	23025	3	1	0	22.75
64QAM	700.5	23025	3	1	8	22.89
64QAM	700.5	23025	3	1	14	23.71
64QAM	700.5	23025	3	8	0	22.24
64QAM	700.5	23025	3	8	4	22.23
64QAM	700.5	23025	3	8	7	22.19
64QAM	700.5	23025	3	15	0	22.54
64QAM	707.5	23095	3	1	0	22.99
64QAM	707.5	23095	3	1	8	22.84
64QAM	707.5	23095	3	1	14	22.68
64QAM	707.5	23095	3	8	0	22.05
64QAM	707.5	23095	3	8	4	22.04
64QAM	707.5	23095	3	8	7	22.12
64QAM	707.5	23095	3	15	0	22.28
64QAM	714.5	23165	3	1	0	22.80
64QAM	714.5	23165	3	1	8	22.41
64QAM	714.5	23165	3	1	14	22.83
64QAM	714.5	23165	3	8	0	22.11
64QAM	714.5	23165	3	8	4	22.06
64QAM	714.5	23165	3	8	7	22.10
64QAM	714.5	23165	3	15	0	22.21

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	24.95
QPSK	701.5	23035	5	1	12	24.86
QPSK	701.5	23035	5	1	24	24.86
QPSK	701.5	23035	5	12	0	23.90
QPSK	701.5	23035	5	12	7	23.72
QPSK	701.5	23035	5	12	13	23.68
QPSK	701.5	23035	5	25	0	23.71
QPSK	707.5	23095	5	1	0	24.95
QPSK	707.5	23095	5	1	12	24.87
QPSK	707.5	23095	5	1	24	24.19
QPSK	707.5	23095	5	12	0	23.85
QPSK	707.5	23095	5	12	7	23.80
QPSK	707.5	23095	5	12	13	23.77
QPSK	707.5	23095	5	25	0	23.64
QPSK	713.5	23155	5	1	0	25.11
QPSK	713.5	23155	5	1	12	25.02
QPSK	713.5	23155	5	1	24	25.00
QPSK	713.5	23155	5	12	0	23.80
QPSK	713.5	23155	5	12	7	23.81
QPSK	713.5	23155	5	12	13	23.80
QPSK	713.5	23155	5	25	0	23.65

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	24.64
16QAM	701.5	23035	5	1	12	24.25
16QAM	701.5	23035	5	1	24	24.61
16QAM	701.5	23035	5	12	0	22.73
16QAM	701.5	23035	5	12	7	23.30
16QAM	701.5	23035	5	12	13	23.15
16QAM	701.5	23035	5	25	0	23.34
16QAM	707.5	23095	5	1	0	24.09
16QAM	707.5	23095	5	1	12	23.98
16QAM	707.5	23095	5	1	24	23.33
16QAM	707.5	23095	5	12	0	22.84
16QAM	707.5	23095	5	12	7	22.79
16QAM	707.5	23095	5	12	13	22.79
16QAM	707.5	23095	5	25	0	22.57
16QAM	713.5	23155	5	1	0	23.44
16QAM	713.5	23155	5	1	12	24.03
16QAM	713.5	23155	5	1	24	23.91
16QAM	713.5	23155	5	12	0	22.91
16QAM	713.5	23155	5	12	7	22.74
16QAM	713.5	23155	5	12	13	22.67
16QAM	713.5	23155	5	25	0	22.89
64QAM	701.5	23035	5	1	0	22.85
64QAM	701.5	23035	5	1	12	23.09
64QAM	701.5	23035	5	1	24	23.19
64QAM	701.5	23035	5	12	0	23.17
64QAM	701.5	23035	5	12	7	22.31
64QAM	701.5	23035	5	12	13	22.23
64QAM	701.5	23035	5	25	0	22.19
64QAM	707.5	23095	5	1	0	22.89
64QAM	707.5	23095	5	1	12	23.11
64QAM	707.5	23095	5	1	24	22.57
64QAM	707.5	23095	5	12	0	22.15
64QAM	707.5	23095	5	12	7	22.19
64QAM	707.5	23095	5	12	13	22.02
64QAM	707.5	23095	5	25	0	22.00
64QAM	713.5	23155	5	1	0	22.73
64QAM	713.5	23155	5	1	12	23.02
64QAM	713.5	23155	5	1	24	22.60
64QAM	713.5	23155	5	12	0	22.16
64QAM	713.5	23155	5	12	7	22.11
64QAM	713.5	23155	5	12	13	22.01
64QAM	713.5	23155	5	25	0	22.14

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	25.08
QPSK	704	23060	10	1	25	25.12
QPSK	704	23060	10	1	49	24.97
QPSK	704	23060	10	25	0	23.86
QPSK	704	23060	10	25	12	23.86
QPSK	704	23060	10	25	25	23.91
QPSK	704	23060	10	50	0	23.96
QPSK	707.5	23095	10	1	0	25.19
QPSK	707.5	23095	10	1	25	25.05
QPSK	707.5	23095	10	1	49	24.86
QPSK	707.5	23095	10	25	0	23.71
QPSK	707.5	23095	10	25	12	23.64
QPSK	707.5	23095	10	25	25	23.16
QPSK	707.5	23095	10	50	0	23.65
QPSK	711	23130	10	1	0	24.81
QPSK	711	23130	10	1	25	24.05
QPSK	711	23130	10	1	49	24.79
QPSK	711	23130	10	25	0	23.70
QPSK	711	23130	10	25	12	23.10
QPSK	711	23130	10	25	25	23.67
QPSK	711	23130	10	50	0	23.21

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	24.18
16QAM	704	23060	10	1	25	23.76
16QAM	704	23060	10	1	49	23.54
16QAM	704	23060	10	25	0	23.53
16QAM	704	23060	10	25	12	23.36
16QAM	704	23060	10	25	25	23.06
16QAM	704	23060	10	50	0	23.25
16QAM	707.5	23095	10	1	0	23.57
16QAM	707.5	23095	10	1	25	23.47
16QAM	707.5	23095	10	1	49	23.54
16QAM	707.5	23095	10	25	0	22.96
16QAM	707.5	23095	10	25	12	22.91
16QAM	707.5	23095	10	25	25	22.68
16QAM	707.5	23095	10	50	0	22.94
16QAM	711	23130	10	1	0	24.06
16QAM	711	23130	10	1	25	23.13
16QAM	711	23130	10	1	49	24.54
16QAM	711	23130	10	25	0	22.60
16QAM	711	23130	10	25	12	22.38
16QAM	711	23130	10	25	25	22.38
16QAM	711	23130	10	50	0	22.38
64QAM	704	23060	10	1	0	22.65
64QAM	704	23060	10	1	25	23.63
64QAM	704	23060	10	1	49	22.95
64QAM	704	23060	10	25	0	22.35
64QAM	704	23060	10	25	12	22.44
64QAM	704	23060	10	25	25	22.13
64QAM	704	23060	10	50	0	22.22
64QAM	707.5	23095	10	1	0	23.41
64QAM	707.5	23095	10	1	25	22.89
64QAM	707.5	23095	10	1	49	22.84
64QAM	707.5	23095	10	25	0	22.37
64QAM	707.5	23095	10	25	12	22.18
64QAM	707.5	23095	10	25	25	21.46
64QAM	707.5	23095	10	50	0	22.18
64QAM	711	23130	10	1	0	22.61
64QAM	711	23130	10	1	25	22.49
64QAM	711	23130	10	1	49	21.91
64QAM	711	23130	10	25	0	22.14
64QAM	711	23130	10	25	12	21.41
64QAM	711	23130	10	25	25	22.17
64QAM	711	23130	10	50	0	21.49



## 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	1.080	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.080	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.080	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	4.450	Fig.7
12	QPSK	707.5	23095	5	25	0	4.450	Fig.8
12	QPSK	713.5	23155	5	25	0	4.460	Fig.9
12	QPSK	704	23060	10	50	0	8.900	Fig.10
12	QPSK	707.5	23095	10	50	0	8.900	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	1.070	Fig.15
12	16QAM	700.5	23025	3	15	0	2.680	Fig.16
12	16QAM	707.5	23095	3	15	0	2.680	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	4.460	Fig.21
12	16QAM	704	23060	10	50	0	8.910	Fig.22
12	16QAM	707.5	23095	10	50	0	8.920	Fig.23
12	16QAM	711	23130	10	50	0	8.910	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	1.080	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.080	Fig.27
12	64QAM	700.5	23025	3	15	0	2.680	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	4.460	Fig.32
12	64QAM	713.5	23155	5	25	0	4.460	Fig.33
12	64QAM	704	23060	10	50	0	8.920	Fig.34
12	64QAM	707.5	23095	10	50	0	8.900	Fig.35
12	64QAM	711	23130	10	50	0	8.910	Fig.36



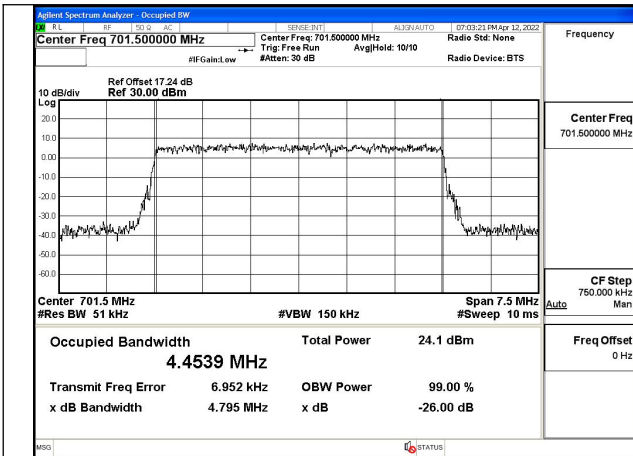


Fig.7

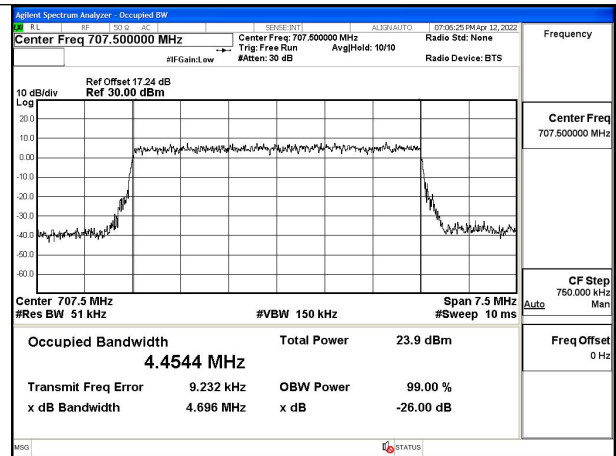


Fig.8

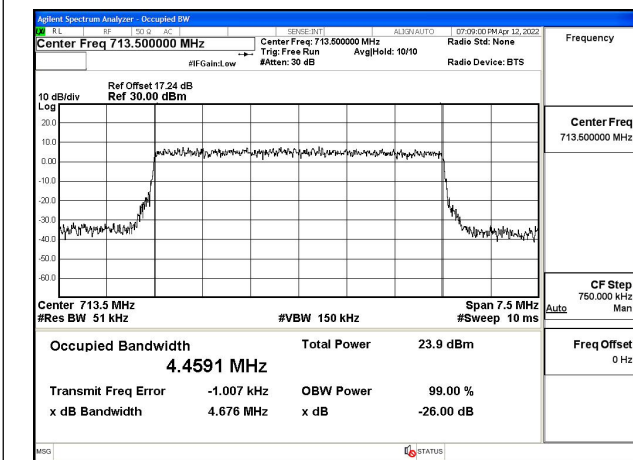


Fig.9

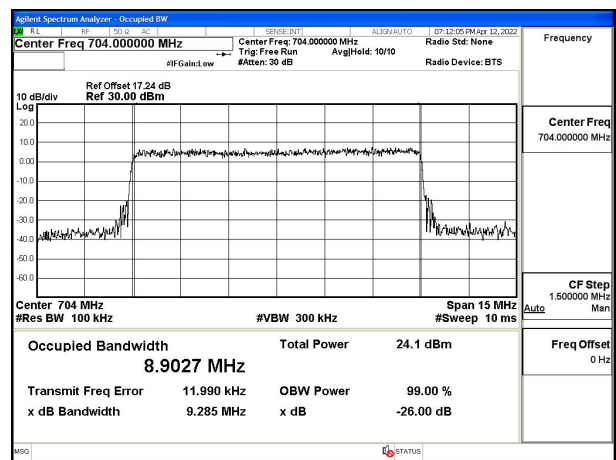


Fig.10

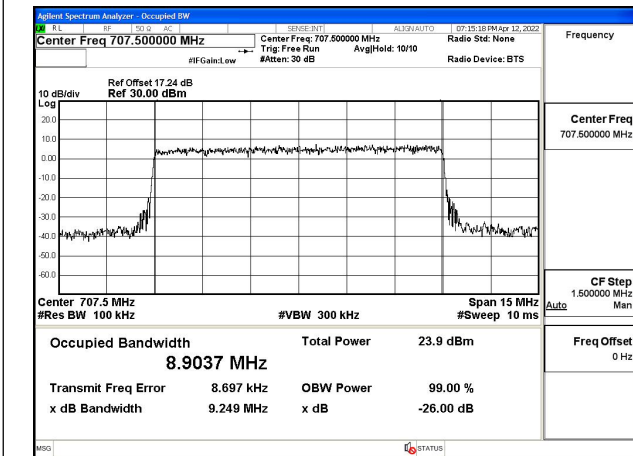


Fig.11

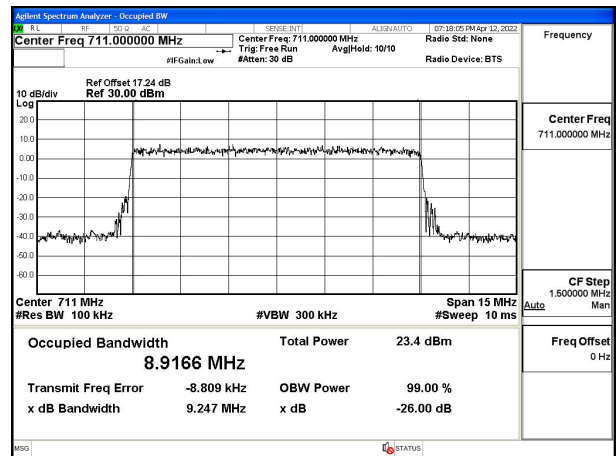


Fig.12

Test Mode: 16QAM

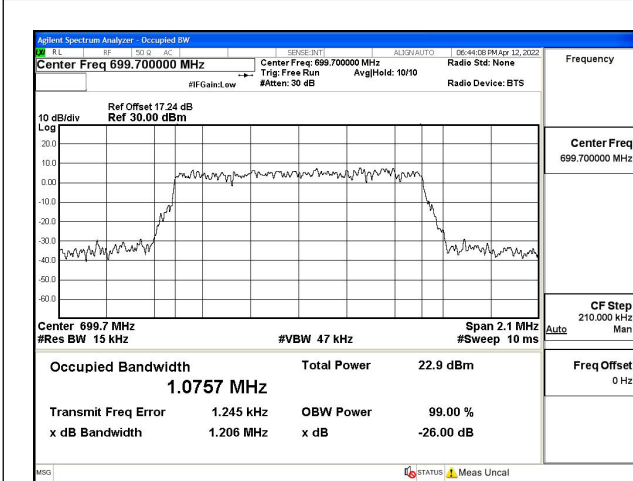


Fig. 13

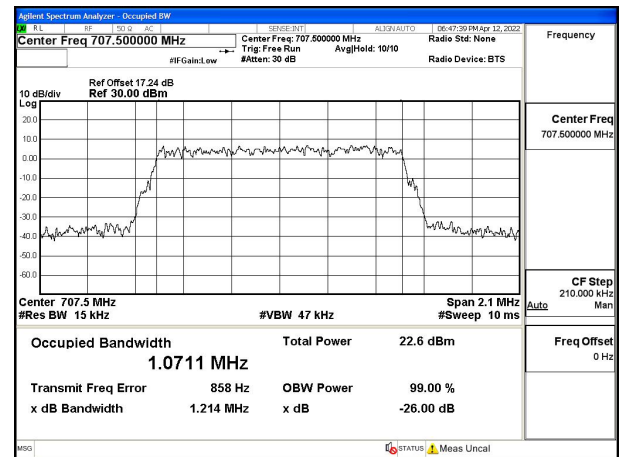


Fig. 14

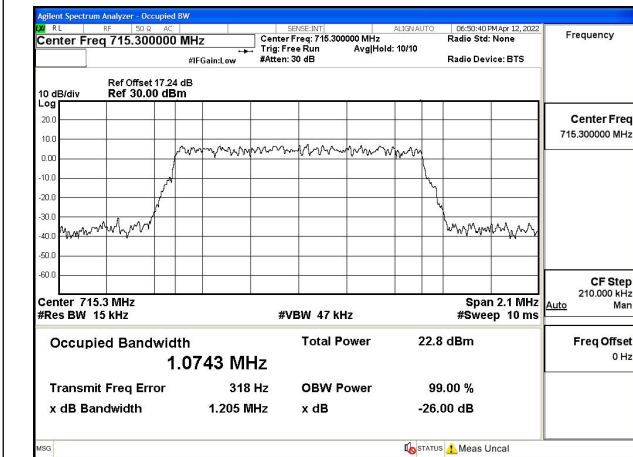


Fig. 15

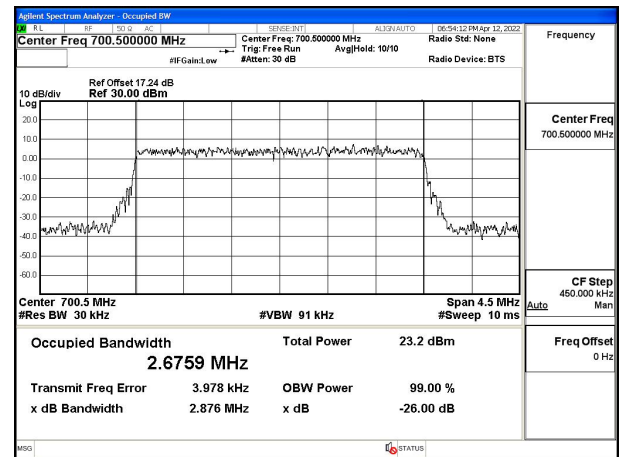


Fig. 16

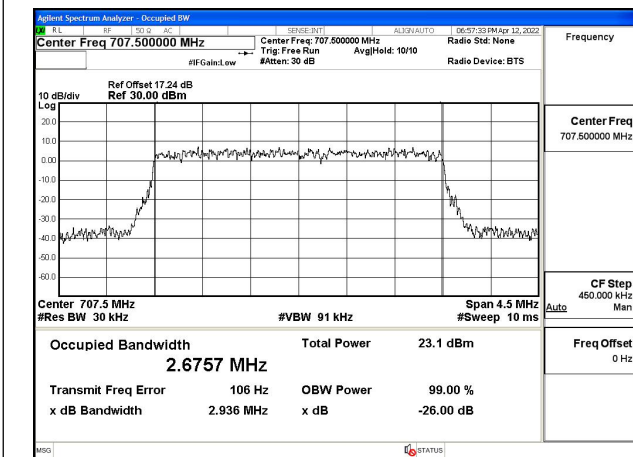


Fig. 17

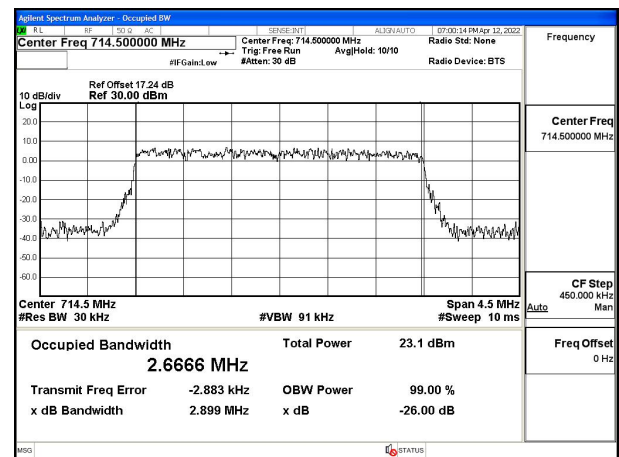


Fig. 18

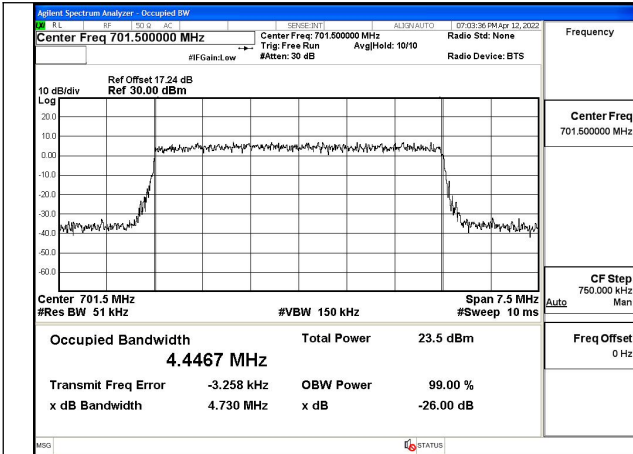


Fig.19

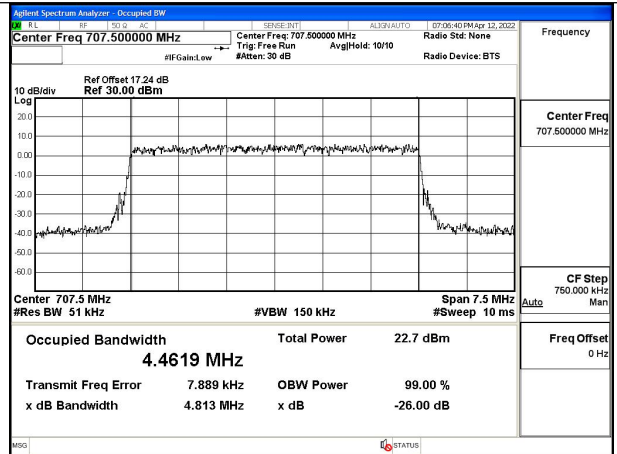


Fig.20

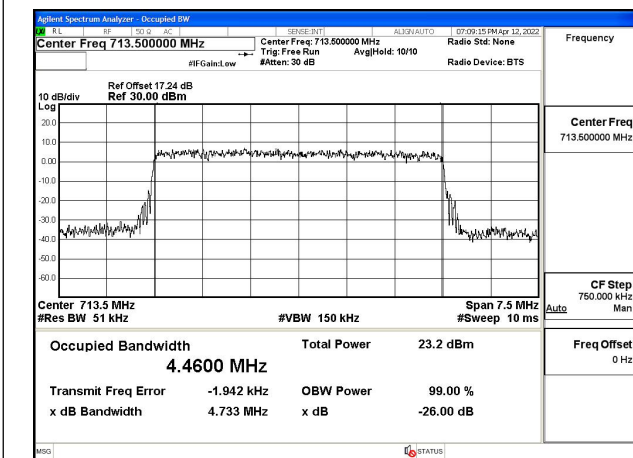


Fig.21

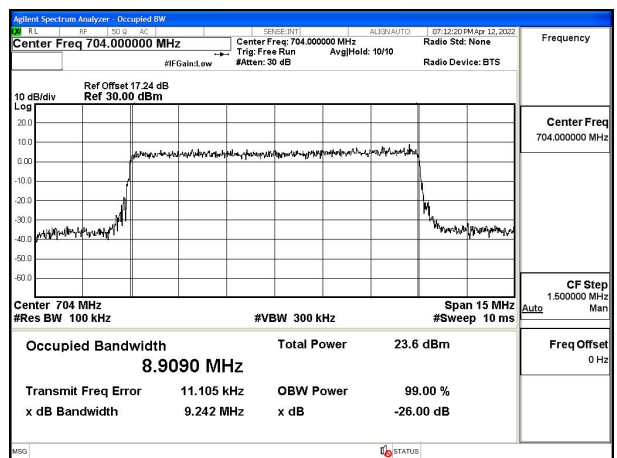


Fig.22

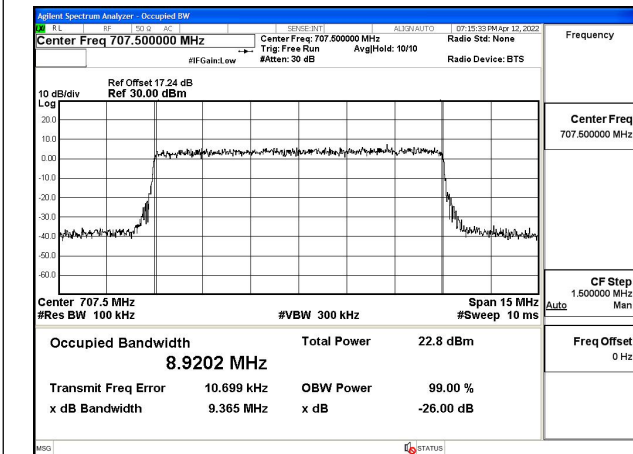


Fig.23

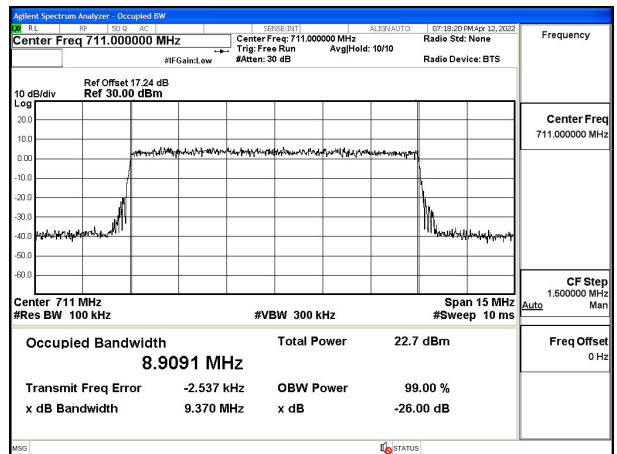


Fig.24



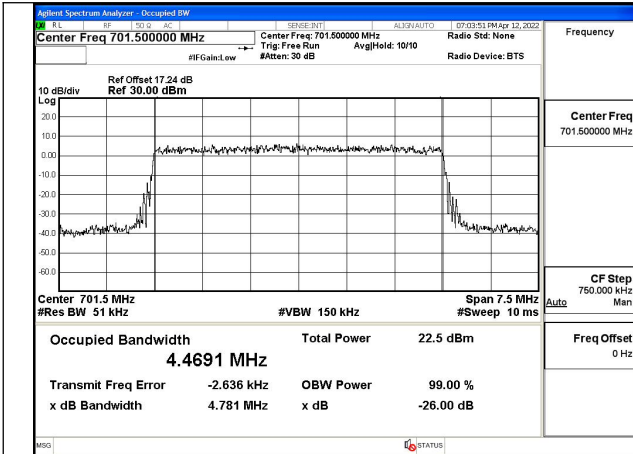


Fig.31

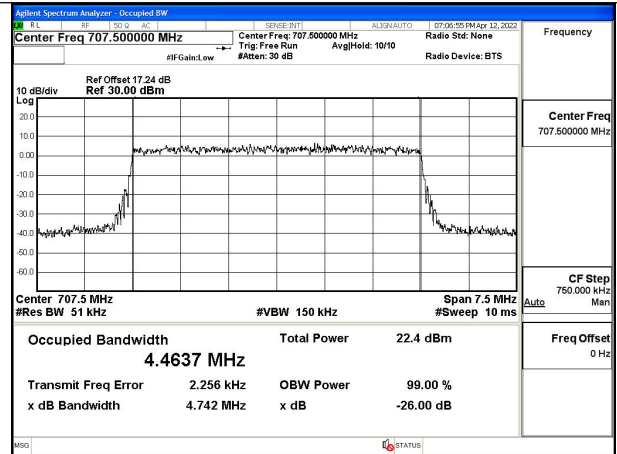


Fig.32

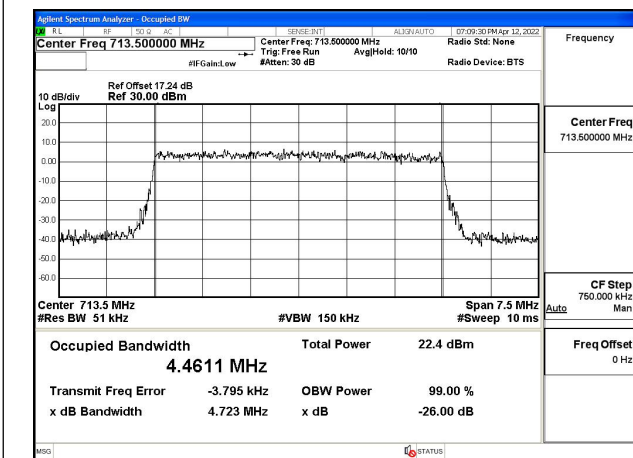


Fig.33

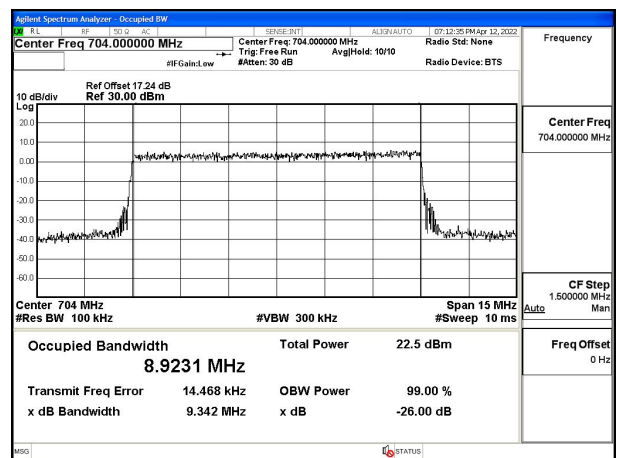


Fig.34

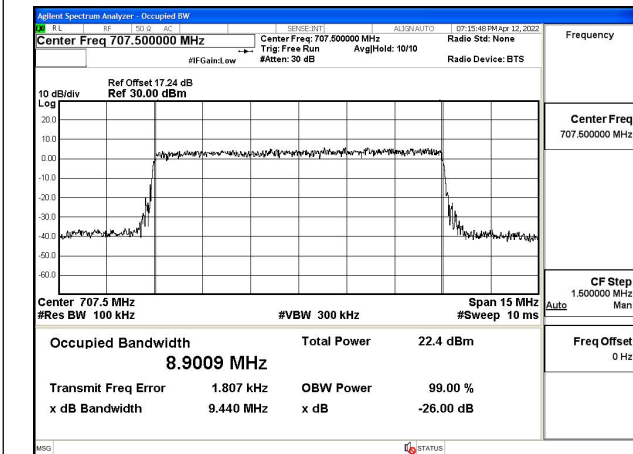


Fig.35

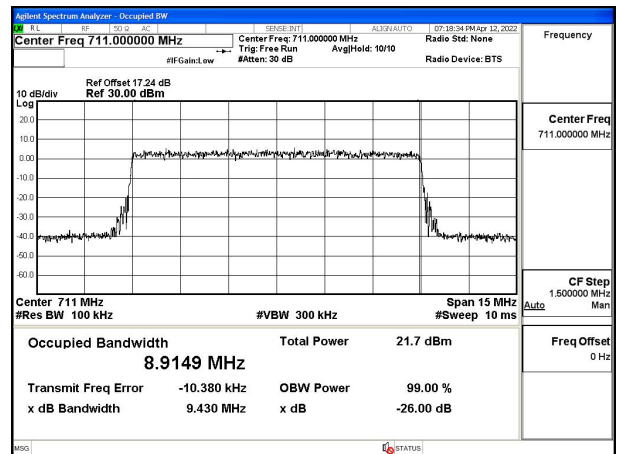


Fig.36



### 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	1.200	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.210	Fig.3
12	QPSK	700.5	23025	3	15	0	2.930	Fig.4
12	QPSK	707.5	23095	3	15	0	2.900	Fig.5
12	QPSK	714.5	23165	3	15	0	2.960	Fig.6
12	QPSK	701.5	23035	5	25	0	4.800	Fig.7
12	QPSK	707.5	23095	5	25	0	4.700	Fig.8
12	QPSK	713.5	23155	5	25	0	4.680	Fig.9
12	QPSK	704	23060	10	50	0	9.280	Fig.10
12	QPSK	707.5	23095	10	50	0	9.250	Fig.11
12	QPSK	711	23130	10	50	0	9.250	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	1.210	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.210	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.210	Fig.15
12	16QAM	700.5	23025	3	15	0	2.880	Fig.16
12	16QAM	707.5	23095	3	15	0	2.940	Fig.17
12	16QAM	714.5	23165	3	15	0	2.900	Fig.18
12	16QAM	701.5	23035	5	25	0	4.730	Fig.19
12	16QAM	707.5	23095	5	25	0	4.810	Fig.20
12	16QAM	713.5	23155	5	25	0	4.730	Fig.21
12	16QAM	704	23060	10	50	0	9.240	Fig.22
12	16QAM	707.5	23095	10	50	0	9.360	Fig.23
12	16QAM	711	23130	10	50	0	9.370	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	1.210	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.220	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.210	Fig.27
12	64QAM	700.5	23025	3	15	0	2.900	Fig.28
12	64QAM	707.5	23095	3	15	0	2.930	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	4.740	Fig.32
12	64QAM	713.5	23155	5	25	0	4.720	Fig.33
12	64QAM	704	23060	10	50	0	9.340	Fig.34
12	64QAM	707.5	23095	10	50	0	9.440	Fig.35
12	64QAM	711	23130	10	50	0	9.430	Fig.36



Test Mode: QPSK

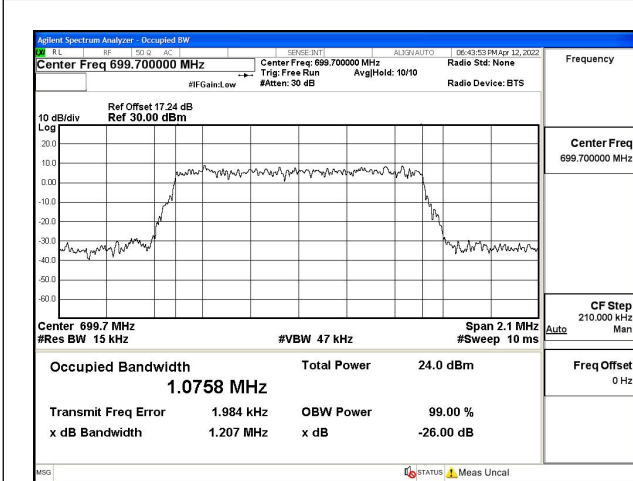


Fig.1

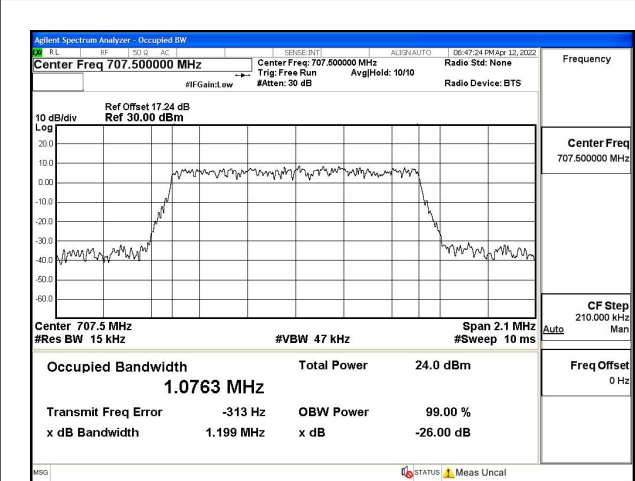


Fig.2

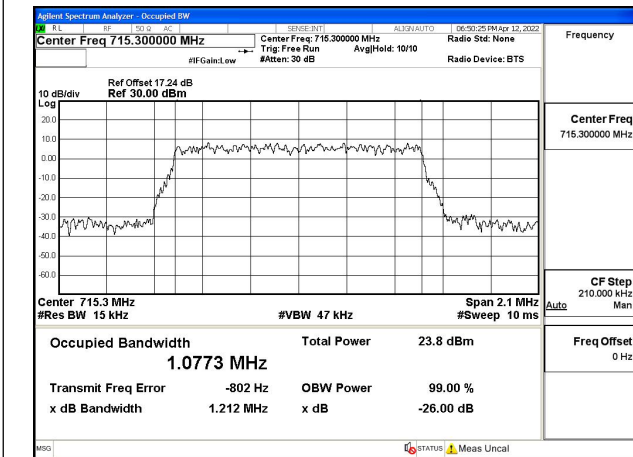


Fig.3

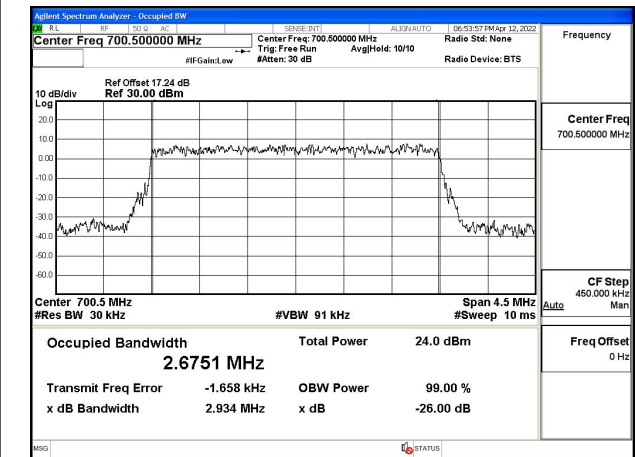


Fig.4

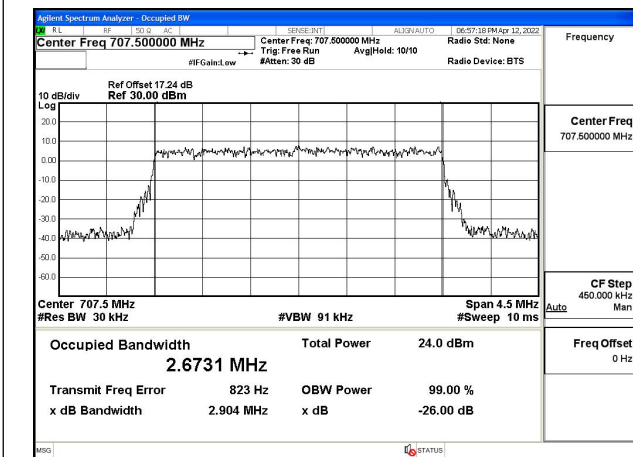


Fig.5

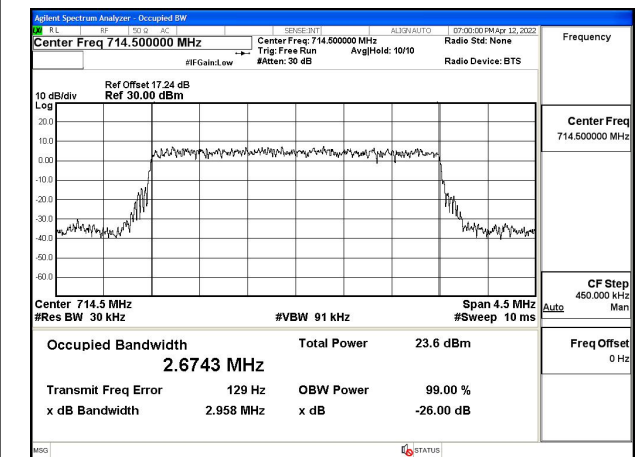


Fig.6