

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 28

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704.5	27225	3	1	0	26.13
QPSK	704.5	27225	3	1	8	25.99
QPSK	704.5	27225	3	1	14	26.19
QPSK	704.5	27225	3	8	0	25.28
QPSK	704.5	27225	3	8	4	25.22
QPSK	704.5	27225	3	8	7	25.34
QPSK	704.5	27225	3	15	0	25.29
QPSK	719.5	27375	3	1	0	26.63
QPSK	719.5	27375	3	1	8	26.70
QPSK	719.5	27375	3	1	14	26.51
QPSK	719.5	27375	3	8	0	25.62
QPSK	719.5	27375	3	8	4	25.60
QPSK	719.5	27375	3	8	7	25.55
QPSK	719.5	27375	3	15	0	25.57
QPSK	746.5	27645	3	1	0	26.29
QPSK	746.5	27645	3	1	8	26.24
QPSK	746.5	27645	3	1	14	26.13
QPSK	746.5	27645	3	8	0	25.27
QPSK	746.5	27645	3	8	4	25.07
QPSK	746.5	27645	3	8	7	25.13
QPSK	746.5	27645	3	15	0	25.13

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704.5	27225	3	1	0	25.53
16QAM	704.5	27225	3	1	8	25.95
16QAM	704.5	27225	3	1	14	25.90
16QAM	704.5	27225	3	8	0	24.61
16QAM	704.5	27225	3	8	4	24.71
16QAM	704.5	27225	3	8	7	24.88
16QAM	704.5	27225	3	15	0	24.78
16QAM	719.5	27375	3	1	0	26.22
16QAM	719.5	27375	3	1	8	26.10
16QAM	719.5	27375	3	1	14	25.91
16QAM	719.5	27375	3	8	0	24.73
16QAM	719.5	27375	3	8	4	24.78
16QAM	719.5	27375	3	8	7	24.69
16QAM	719.5	27375	3	15	0	24.63
16QAM	746.5	27645	3	1	0	25.23
16QAM	746.5	27645	3	1	8	25.27
16QAM	746.5	27645	3	1	14	25.15
16QAM	746.5	27645	3	8	0	24.37
16QAM	746.5	27645	3	8	4	24.20
16QAM	746.5	27645	3	8	7	24.20
16QAM	746.5	27645	3	15	0	24.32
64QAM	704.5	27225	3	1	0	24.67
64QAM	704.5	27225	3	1	8	25.14
64QAM	704.5	27225	3	1	14	24.87
64QAM	704.5	27225	3	8	0	23.28
64QAM	704.5	27225	3	8	4	23.01
64QAM	704.5	27225	3	8	7	23.21
64QAM	704.5	27225	3	15	0	23.33
64QAM	719.5	27375	3	1	0	24.50
64QAM	719.5	27375	3	1	8	24.61
64QAM	719.5	27375	3	1	14	24.63
64QAM	719.5	27375	3	8	0	22.93
64QAM	719.5	27375	3	8	4	22.96
64QAM	719.5	27375	3	8	7	23.17
64QAM	719.5	27375	3	15	0	23.23
64QAM	746.5	27645	3	1	0	23.81
64QAM	746.5	27645	3	1	8	23.65
64QAM	746.5	27645	3	1	14	23.76
64QAM	746.5	27645	3	8	0	22.67
64QAM	746.5	27645	3	8	4	22.87
64QAM	746.5	27645	3	8	7	22.84
64QAM	746.5	27645	3	15	0	22.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	705.5	27235	5	1	0	26.19
QPSK	705.5	27235	5	1	12	26.44
QPSK	705.5	27235	5	1	24	26.61
QPSK	705.5	27235	5	12	0	25.21
QPSK	705.5	27235	5	12	7	25.34
QPSK	705.5	27235	5	12	13	25.34
QPSK	705.5	27235	5	25	0	25.35
QPSK	720.5	27385	5	1	0	26.46
QPSK	720.5	27385	5	1	12	26.66
QPSK	720.5	27385	5	1	24	26.65
QPSK	720.5	27385	5	12	0	25.71
QPSK	720.5	27385	5	12	7	25.65
QPSK	720.5	27385	5	12	13	25.40
QPSK	720.5	27385	5	25	0	25.45
QPSK	745.5	27635	5	1	0	26.39
QPSK	745.5	27635	5	1	12	26.13
QPSK	745.5	27635	5	1	24	26.18
QPSK	745.5	27635	5	12	0	25.10
QPSK	745.5	27635	5	12	7	25.20
QPSK	745.5	27635	5	12	13	25.23
QPSK	745.5	27635	5	25	0	25.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	705.5	27235	5	1	0	25.48
16QAM	705.5	27235	5	1	12	26.28
16QAM	705.5	27235	5	1	24	26.36
16QAM	705.5	27235	5	12	0	24.63
16QAM	705.5	27235	5	12	7	24.91
16QAM	705.5	27235	5	12	13	24.73
16QAM	705.5	27235	5	25	0	24.78
16QAM	720.5	27385	5	1	0	25.79
16QAM	720.5	27385	5	1	12	26.26
16QAM	720.5	27385	5	1	24	25.73
16QAM	720.5	27385	5	12	0	24.72
16QAM	720.5	27385	5	12	7	24.60
16QAM	720.5	27385	5	12	13	25.08
16QAM	720.5	27385	5	25	0	24.58
16QAM	745.5	27635	5	1	0	25.59
16QAM	745.5	27635	5	1	12	25.55
16QAM	745.5	27635	5	1	24	24.89
16QAM	745.5	27635	5	12	0	24.39
16QAM	745.5	27635	5	12	7	24.37
16QAM	745.5	27635	5	12	13	24.22
16QAM	745.5	27635	5	25	0	24.37
64QAM	705.5	27235	5	1	0	24.00
64QAM	705.5	27235	5	1	12	24.79
64QAM	705.5	27235	5	1	24	24.39
64QAM	705.5	27235	5	12	0	23.20
64QAM	705.5	27235	5	12	7	23.42
64QAM	705.5	27235	5	12	13	23.24
64QAM	705.5	27235	5	25	0	23.28
64QAM	720.5	27385	5	1	0	24.33
64QAM	720.5	27385	5	1	12	24.47
64QAM	720.5	27385	5	1	24	24.87
64QAM	720.5	27385	5	12	0	22.88
64QAM	720.5	27385	5	12	7	23.13
64QAM	720.5	27385	5	12	13	23.47
64QAM	720.5	27385	5	25	0	23.10
64QAM	745.5	27635	5	1	0	24.12
64QAM	745.5	27635	5	1	12	24.07
64QAM	745.5	27635	5	1	24	24.11
64QAM	745.5	27635	5	12	0	22.64
64QAM	745.5	27635	5	12	7	22.52
64QAM	745.5	27635	5	12	13	22.77
64QAM	745.5	27635	5	25	0	22.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	708	27260	10	1	0	26.61
QPSK	708	27260	10	1	25	26.72
QPSK	708	27260	10	1	49	26.84
QPSK	708	27260	10	25	0	25.37
QPSK	708	27260	10	25	12	25.44
QPSK	708	27260	10	25	25	25.47
QPSK	708	27260	10	50	0	25.43
QPSK	723	27410	10	1	0	26.82
QPSK	723	27410	10	1	25	26.59
QPSK	723	27410	10	1	49	26.70
QPSK	723	27410	10	25	0	25.65
QPSK	723	27410	10	25	12	25.50
QPSK	723	27410	10	25	25	25.39
QPSK	723	27410	10	50	0	25.27
QPSK	743	27610	10	1	0	26.58
QPSK	743	27610	10	1	25	26.39
QPSK	743	27610	10	1	49	26.13
QPSK	743	27610	10	25	0	25.50
QPSK	743	27610	10	25	12	25.25
QPSK	743	27610	10	25	25	25.13
QPSK	743	27610	10	50	0	25.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	708	27260	10	1	0	25.30
16QAM	708	27260	10	1	25	25.08
16QAM	708	27260	10	1	49	25.50
16QAM	708	27260	10	25	0	24.96
16QAM	708	27260	10	25	12	24.69
16QAM	708	27260	10	25	25	24.74
16QAM	708	27260	10	50	0	24.52
16QAM	723	27410	10	1	0	25.55
16QAM	723	27410	10	1	25	25.95
16QAM	723	27410	10	1	49	25.51
16QAM	723	27410	10	25	0	24.84
16QAM	723	27410	10	25	12	25.14
16QAM	723	27410	10	25	25	24.70
16QAM	723	27410	10	50	0	24.89
16QAM	743	27610	10	1	0	25.81
16QAM	743	27610	10	1	25	25.79
16QAM	743	27610	10	1	49	25.70
16QAM	743	27610	10	25	0	24.59
16QAM	743	27610	10	25	12	24.15
16QAM	743	27610	10	25	25	24.17
16QAM	743	27610	10	50	0	24.23
64QAM	708	27260	10	1	0	24.95
64QAM	708	27260	10	1	25	24.58
64QAM	708	27260	10	1	49	25.17
64QAM	708	27260	10	25	0	23.48
64QAM	708	27260	10	25	12	23.13
64QAM	708	27260	10	25	25	23.36
64QAM	708	27260	10	50	0	23.30
64QAM	723	27410	10	1	0	24.72
64QAM	723	27410	10	1	25	24.70
64QAM	723	27410	10	1	49	24.29
64QAM	723	27410	10	25	0	23.02
64QAM	723	27410	10	25	12	23.46
64QAM	723	27410	10	25	25	23.13
64QAM	723	27410	10	50	0	23.55
64QAM	743	27610	10	1	0	24.47
64QAM	743	27610	10	1	25	24.19
64QAM	743	27610	10	1	49	24.00
64QAM	743	27610	10	25	0	23.18
64QAM	743	27610	10	25	12	22.88
64QAM	743	27610	10	25	25	22.58
64QAM	743	27610	10	50	0	23.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	710.5	27285	15	1	0	26.43
QPSK	710.5	27285	15	1	37	26.56
QPSK	710.5	27285	15	1	74	26.46
QPSK	710.5	27285	15	36	0	25.31
QPSK	710.5	27285	15	36	29	25.59
QPSK	710.5	27285	15	36	30	25.49
QPSK	710.5	27285	15	75	0	25.58
QPSK	725.5	27435	15	1	0	26.63
QPSK	725.5	27435	15	1	37	26.61
QPSK	725.5	27435	15	1	74	26.33
QPSK	725.5	27435	15	36	0	25.56
QPSK	725.5	27435	15	36	29	25.52
QPSK	725.5	27435	15	36	30	25.54
QPSK	725.5	27435	15	75	0	25.52
QPSK	740.5	27585	15	1	0	26.23
QPSK	740.5	27585	15	1	37	26.77
QPSK	740.5	27585	15	1	74	26.25
QPSK	740.5	27585	15	36	0	25.47
QPSK	740.5	27585	15	36	29	25.27
QPSK	740.5	27585	15	36	30	25.25
QPSK	740.5	27585	15	75	0	25.65

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	710.5	27285	15	1	0	26.20
16QAM	710.5	27285	15	1	37	26.70
16QAM	710.5	27285	15	1	74	25.94
16QAM	710.5	27285	15	36	0	24.53
16QAM	710.5	27285	15	36	29	25.25
16QAM	710.5	27285	15	36	30	24.97
16QAM	710.5	27285	15	75	0	24.60
16QAM	725.5	27435	15	1	0	25.94
16QAM	725.5	27435	15	1	37	26.08
16QAM	725.5	27435	15	1	74	26.06
16QAM	725.5	27435	15	36	0	24.94
16QAM	725.5	27435	15	36	29	24.52
16QAM	725.5	27435	15	36	30	24.45
16QAM	725.5	27435	15	75	0	24.53
16QAM	740.5	27585	15	1	0	25.69
16QAM	740.5	27585	15	1	37	25.63
16QAM	740.5	27585	15	1	74	25.11
16QAM	740.5	27585	15	36	0	24.44
16QAM	740.5	27585	15	36	29	24.34
16QAM	740.5	27585	15	36	30	24.35
16QAM	740.5	27585	15	75	0	24.57
64QAM	710.5	27285	15	1	0	24.78
64QAM	710.5	27285	15	1	37	24.16
64QAM	710.5	27285	15	1	74	24.65
64QAM	710.5	27285	15	36	0	23.09
64QAM	710.5	27285	15	36	29	23.67
64QAM	710.5	27285	15	36	30	23.59
64QAM	710.5	27285	15	75	0	23.41
64QAM	725.5	27435	15	1	0	24.56
64QAM	725.5	27435	15	1	37	24.58
64QAM	725.5	27435	15	1	74	24.04
64QAM	725.5	27435	15	36	0	23.67
64QAM	725.5	27435	15	36	29	23.13
64QAM	725.5	27435	15	36	30	23.09
64QAM	725.5	27435	15	75	0	23.09
64QAM	740.5	27585	15	1	0	25.08
64QAM	740.5	27585	15	1	37	24.55
64QAM	740.5	27585	15	1	74	24.37
64QAM	740.5	27585	15	36	0	22.88
64QAM	740.5	27585	15	36	29	22.65
64QAM	740.5	27585	15	36	30	22.95
64QAM	740.5	27585	15	75	0	23.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	713	27310	20	1	0	26.32
QPSK	713	27310	20	1	49	26.38
QPSK	713	27310	20	1	99	26.74
QPSK	713	27310	20	50	0	25.52
QPSK	713	27310	20	50	24	25.49
QPSK	713	27310	20	50	50	25.52
QPSK	713	27310	20	100	0	25.47
QPSK	728	27460	20	1	0	26.69
QPSK	728	27460	20	1	49	26.55
QPSK	728	27460	20	1	99	26.45
QPSK	728	27460	20	50	0	25.26
QPSK	728	27460	20	50	24	25.27
QPSK	728	27460	20	50	50	25.22
QPSK	728	27460	20	100	0	25.31
QPSK	738	27560	20	1	0	26.56
QPSK	738	27560	20	1	49	26.43
QPSK	738	27560	20	1	99	26.23
QPSK	738	27560	20	50	0	25.16
QPSK	738	27560	20	50	24	25.42
QPSK	738	27560	20	50	50	25.15
QPSK	738	27560	20	100	0	25.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	713	27310	20	1	0	25.65
16QAM	713	27310	20	1	49	25.89
16QAM	713	27310	20	1	99	26.03
16QAM	713	27310	20	50	0	24.65
16QAM	713	27310	20	50	24	25.33
16QAM	713	27310	20	50	50	24.66
16QAM	713	27310	20	100	0	24.96
16QAM	728	27460	20	1	0	26.21
16QAM	728	27460	20	1	49	26.47
16QAM	728	27460	20	1	99	25.92
16QAM	728	27460	20	50	0	24.51
16QAM	728	27460	20	50	24	24.50
16QAM	728	27460	20	50	50	24.69
16QAM	728	27460	20	100	0	24.49
16QAM	738	27560	20	1	0	25.85
16QAM	738	27560	20	1	49	25.25
16QAM	738	27560	20	1	99	24.91
16QAM	738	27560	20	50	0	24.70
16QAM	738	27560	20	50	24	24.53
16QAM	738	27560	20	50	50	24.31
16QAM	738	27560	20	100	0	24.34
64QAM	713	27310	20	1	0	24.79
64QAM	713	27310	20	1	49	25.12
64QAM	713	27310	20	1	99	25.24
64QAM	713	27310	20	50	0	23.03
64QAM	713	27310	20	50	24	23.66
64QAM	713	27310	20	50	50	23.14
64QAM	713	27310	20	100	0	23.70
64QAM	728	27460	20	1	0	24.78
64QAM	728	27460	20	1	49	24.63
64QAM	728	27460	20	1	99	24.61
64QAM	728	27460	20	50	0	23.49
64QAM	728	27460	20	50	24	23.01
64QAM	728	27460	20	50	50	23.58
64QAM	728	27460	20	100	0	22.94
64QAM	738	27560	20	1	0	24.40
64QAM	738	27560	20	1	49	24.18
64QAM	738	27560	20	1	99	24.35
64QAM	738	27560	20	50	0	23.32
64QAM	738	27560	20	50	24	22.95
64QAM	738	27560	20	50	50	22.83
64QAM	738	27560	20	100	0	22.70

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
28	QPSK	704.5	27225	3	15	0	2.68	Fig.1
28	QPSK	719.5	27375	3	15	0	2.68	Fig.2
28	QPSK	746.5	27645	3	15	0	2.68	Fig.3
28	QPSK	705.5	27235	5	25	0	4.47	Fig.4
28	QPSK	720.5	27385	5	25	0	4.47	Fig.5
28	QPSK	745.5	27635	5	25	0	4.46	Fig.6
28	QPSK	708	27260	10	50	0	8.92	Fig.7
28	QPSK	723	27410	10	50	0	8.90	Fig.8
28	QPSK	743	27610	10	50	0	8.92	Fig.9
28	QPSK	710.5	27285	15	75	0	13.35	Fig.10
28	QPSK	725.5	27435	15	75	0	13.38	Fig.11
28	QPSK	740.5	27585	15	75	0	13.37	Fig.12
28	QPSK	713	27310	20	100	0	17.80	Fig.13
28	QPSK	728	27460	20	100	0	17.83	Fig.14
28	QPSK	738	27560	20	100	0	17.81	Fig.15

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
28	16QAM	704.5	27225	3	15	0	2.68	Fig.16
28	16QAM	719.5	27375	3	15	0	2.68	Fig.17
28	16QAM	746.5	27645	3	15	0	2.68	Fig.18
28	16QAM	705.5	27235	5	25	0	4.45	Fig.19
28	16QAM	720.5	27385	5	25	0	4.45	Fig.20
28	16QAM	745.5	27635	5	25	0	4.45	Fig.21
28	16QAM	708	27260	10	50	0	8.92	Fig.22
28	16QAM	723	27410	10	50	0	8.91	Fig.23
28	16QAM	743	27610	10	50	0	8.93	Fig.24
28	16QAM	710.5	27285	15	75	0	13.35	Fig.25
28	16QAM	725.5	27435	15	75	0	13.37	Fig.26
28	16QAM	740.5	27585	15	75	0	13.38	Fig.27
28	16QAM	713	27310	20	100	0	17.83	Fig.28
28	16QAM	728	27460	20	100	0	17.85	Fig.29
28	16QAM	738	27560	20	100	0	17.84	Fig.30

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
28	64QAM	704.5	27225	3	15	0	2.68	Fig.31
28	64QAM	719.5	27375	3	15	0	2.68	Fig.32
28	64QAM	746.5	27645	3	15	0	2.68	Fig.33
28	64QAM	705.5	27235	5	25	0	4.47	Fig.34
28	64QAM	720.5	27385	5	25	0	4.45	Fig.35
28	64QAM	745.5	27635	5	25	0	4.45	Fig.36
28	64QAM	708	27260	10	50	0	8.91	Fig.37
28	64QAM	723	27410	10	50	0	8.92	Fig.38
28	64QAM	743	27610	10	50	0	8.92	Fig.39
28	64QAM	710.5	27285	15	75	0	13.38	Fig.40
28	64QAM	725.5	27435	15	75	0	13.38	Fig.41
28	64QAM	740.5	27585	15	75	0	13.38	Fig.42
28	64QAM	713	27310	20	100	0	17.85	Fig.43
28	64QAM	728	27460	20	100	0	17.85	Fig.44
28	64QAM	738	27560	20	100	0	17.83	Fig.45

Test Mode: QPSK

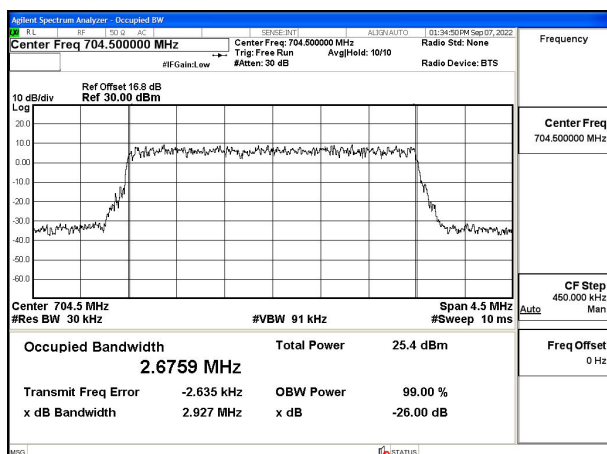


Fig.1

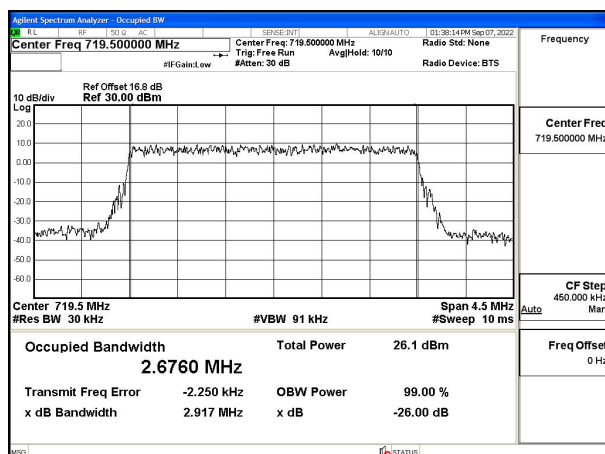


Fig.2

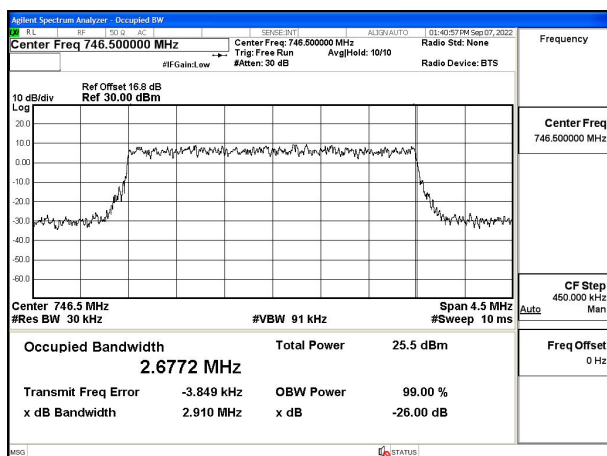


Fig.3

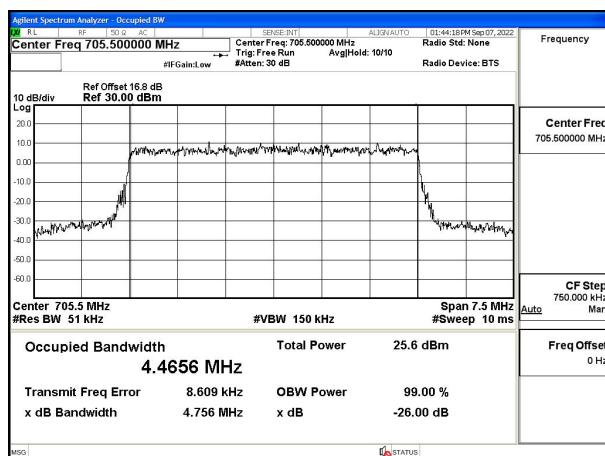


Fig.4

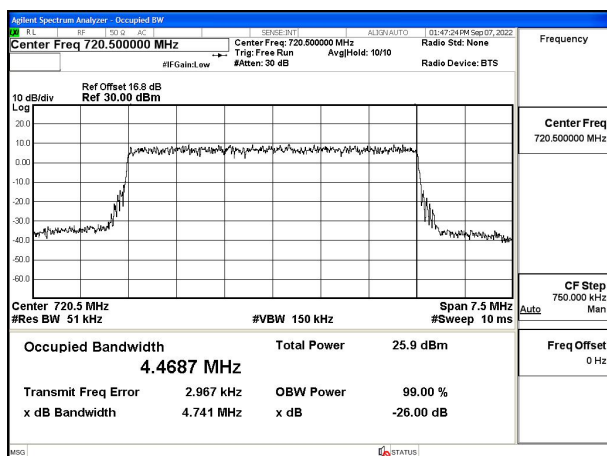


Fig.5

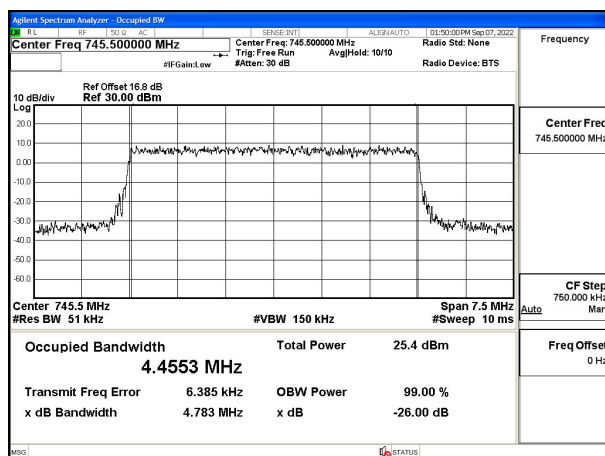


Fig.6

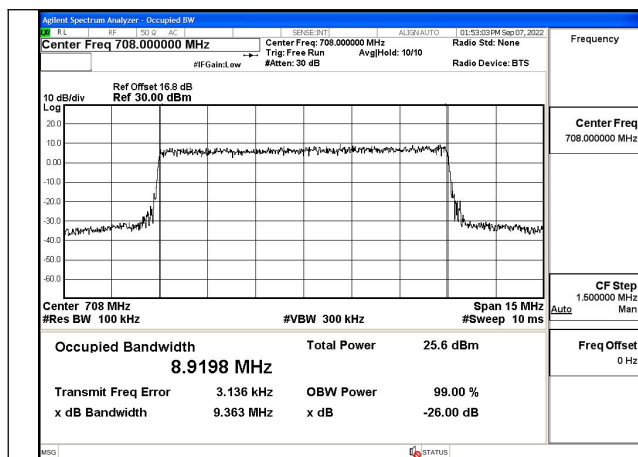


Fig.7

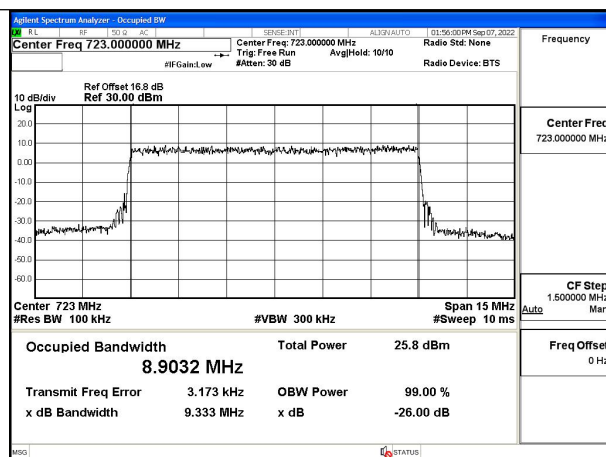


Fig.8

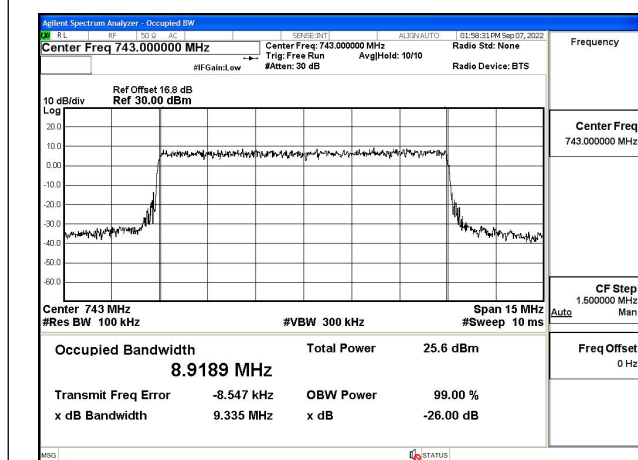


Fig.9

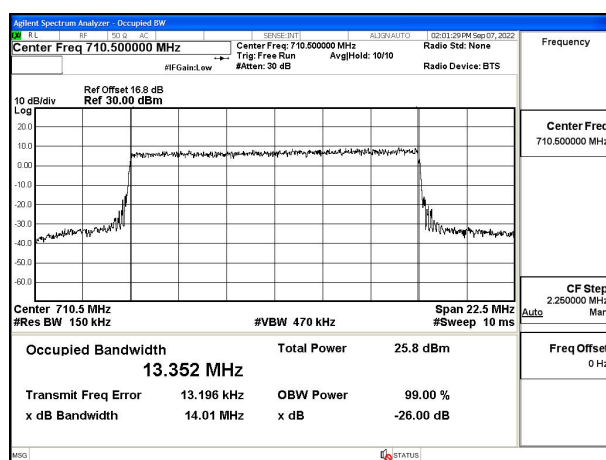


Fig.10

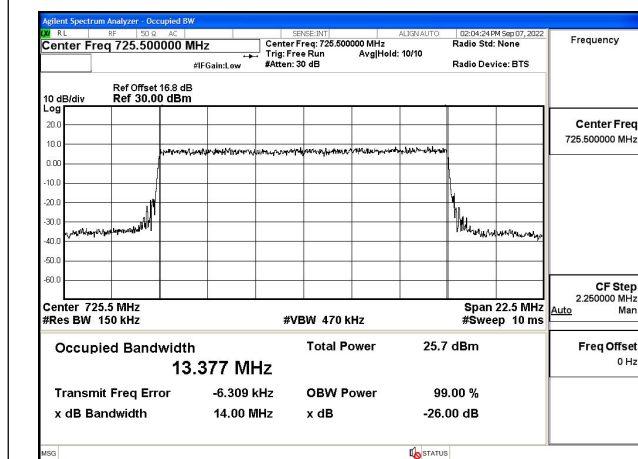


Fig.11

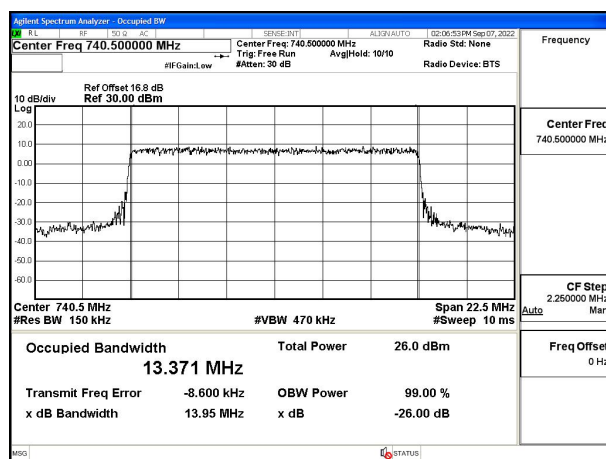


Fig.12

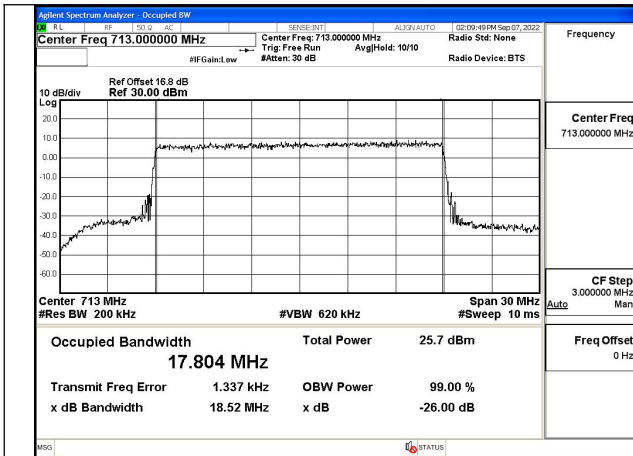


Fig.13

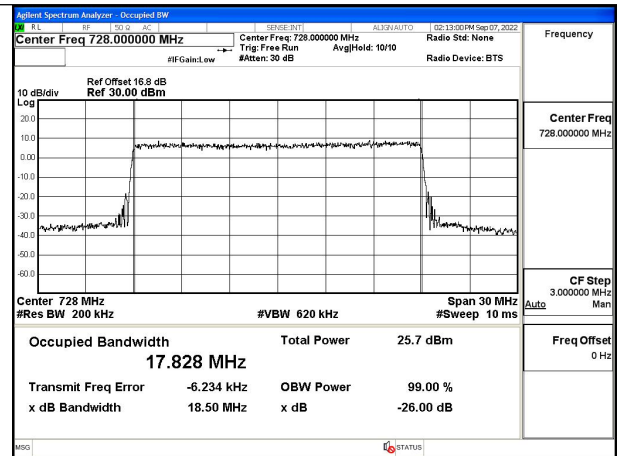


Fig.14

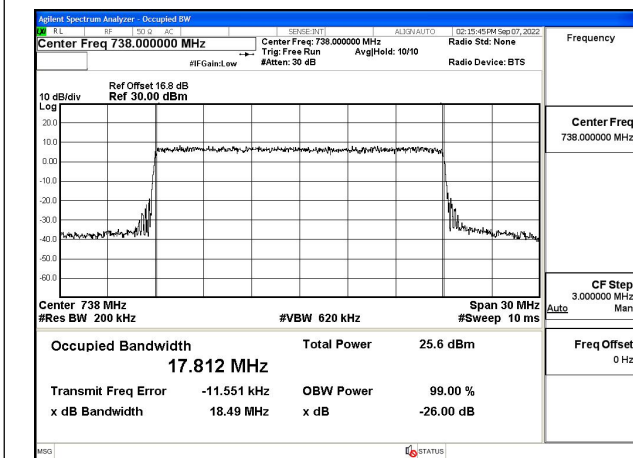


Fig.15

Test Mode: 16QAM

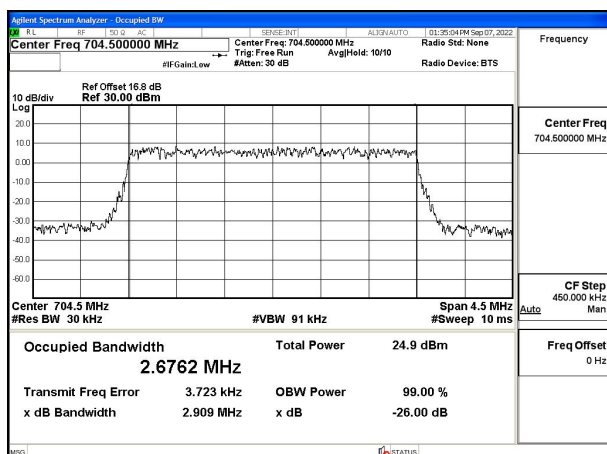


Fig.16

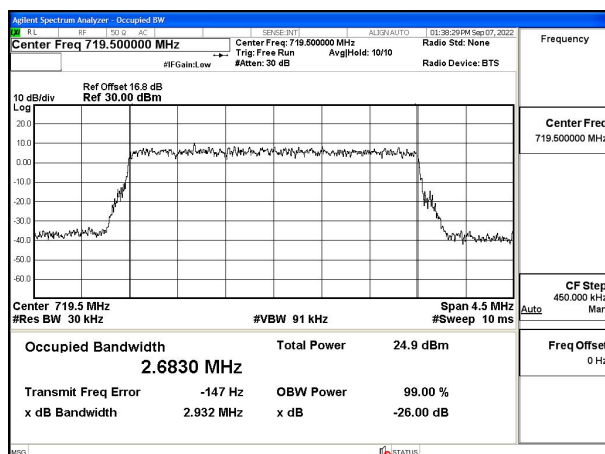


Fig.17

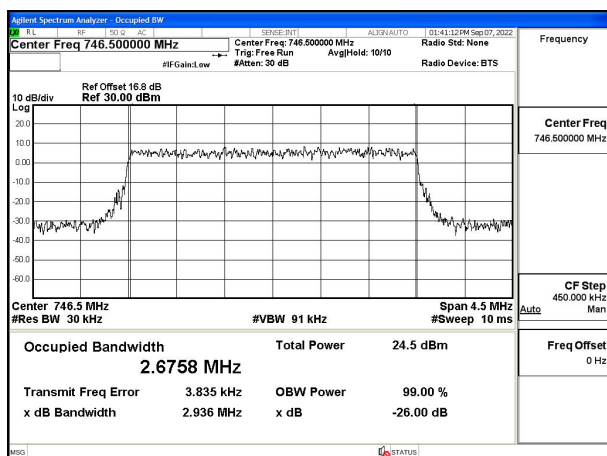


Fig.18

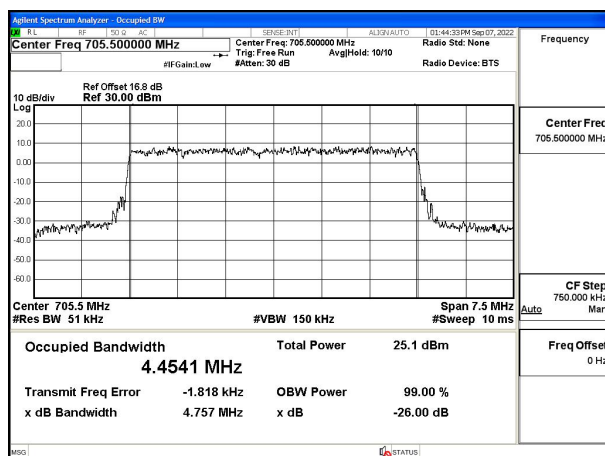


Fig.19

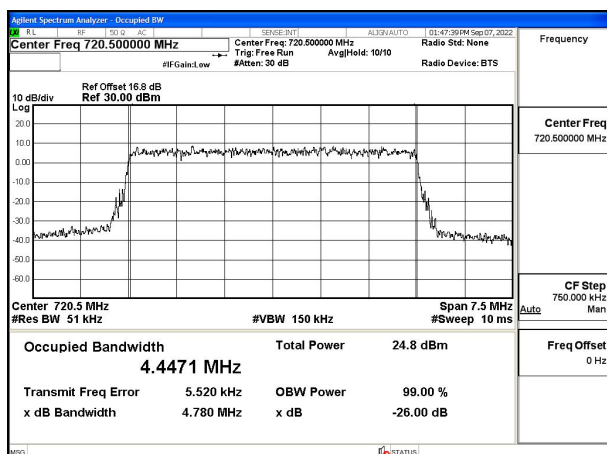


Fig.20

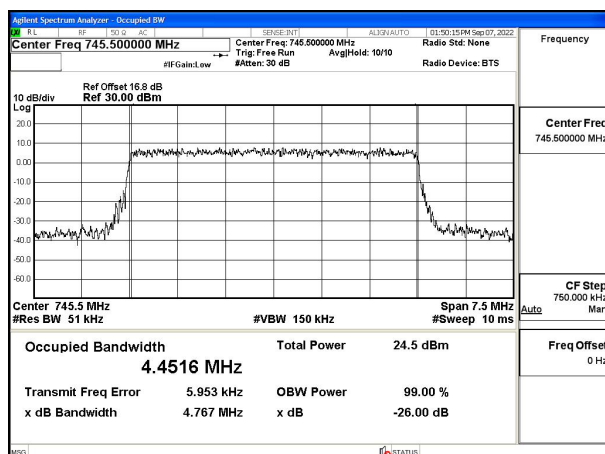


Fig.21

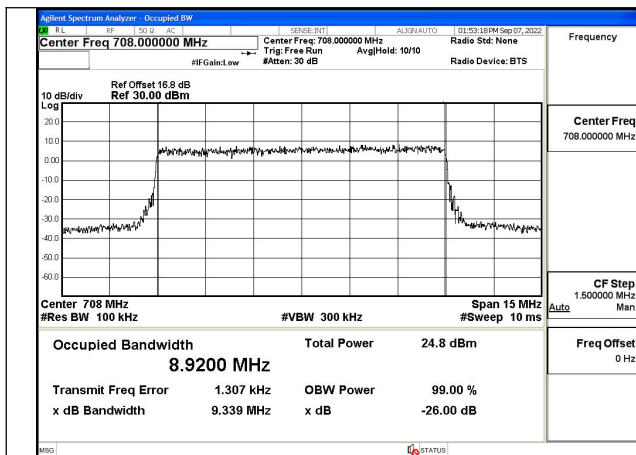


Fig.22

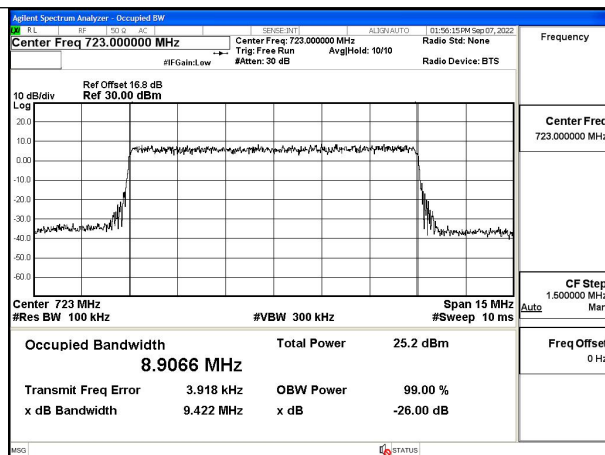


Fig.23

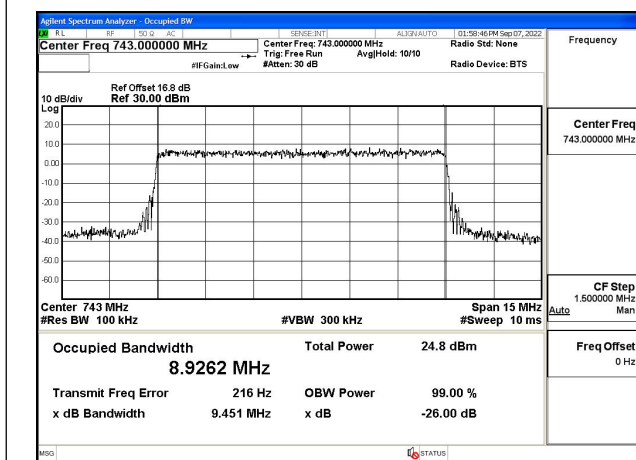


Fig.24

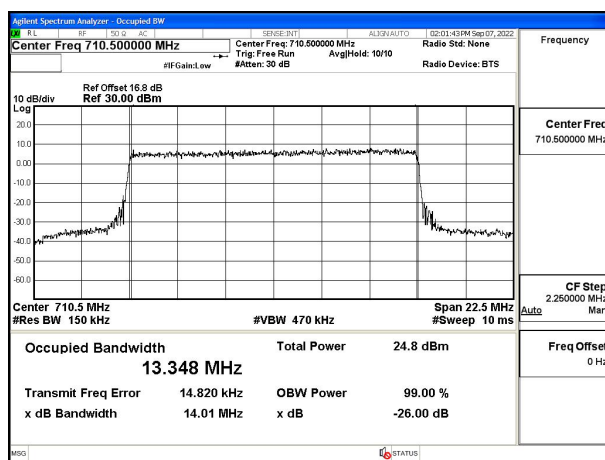


Fig.25

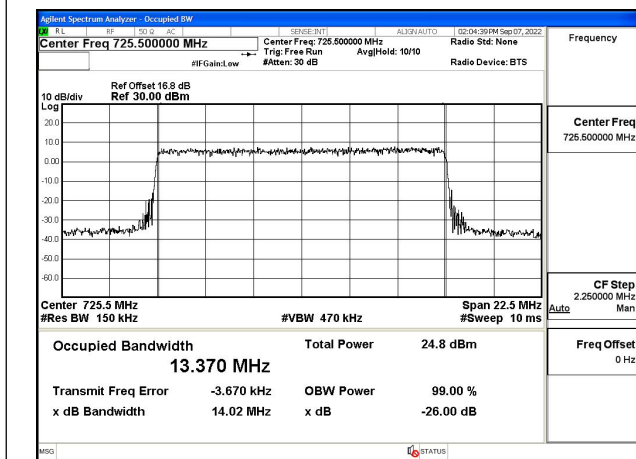


Fig.26

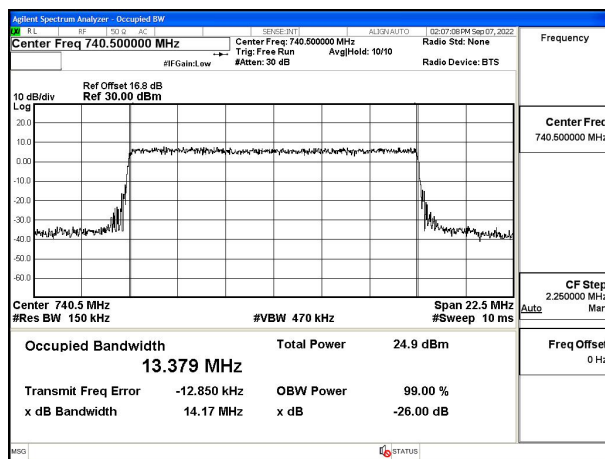


Fig.27

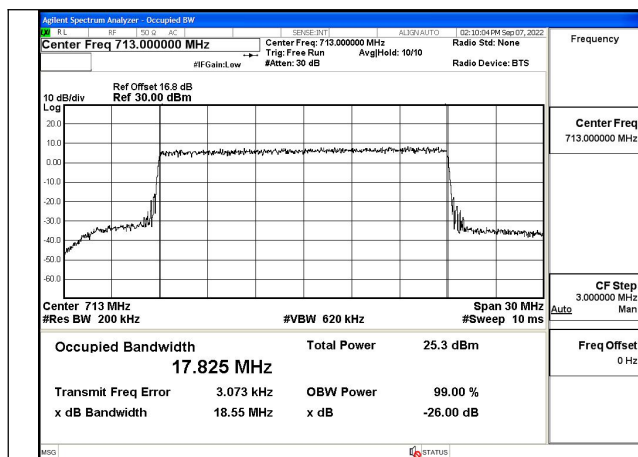


Fig.28

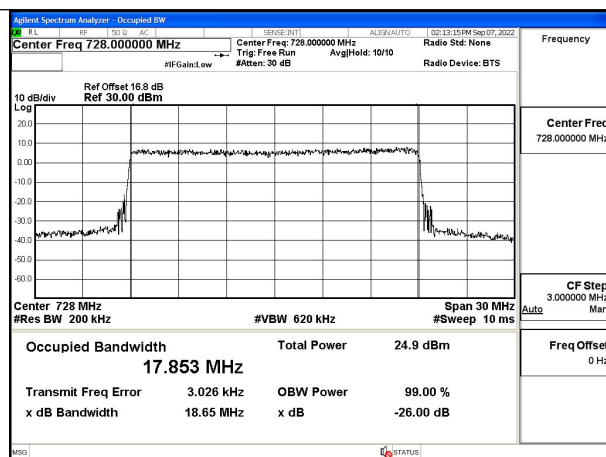


Fig.29

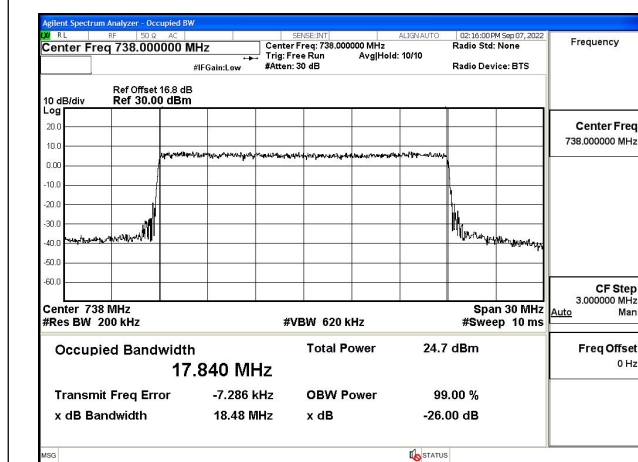


Fig.30

Test Mode: 64QAM

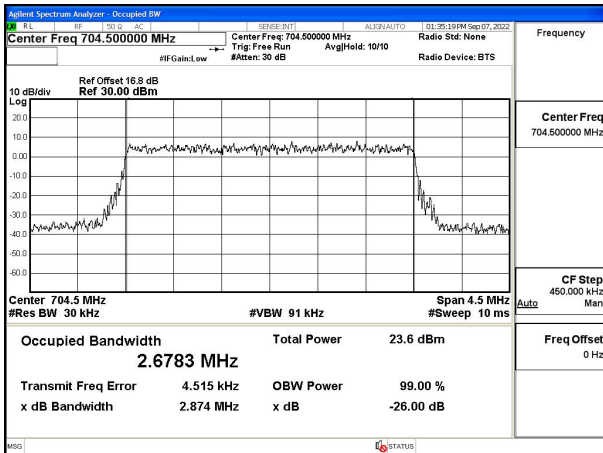


Fig.31

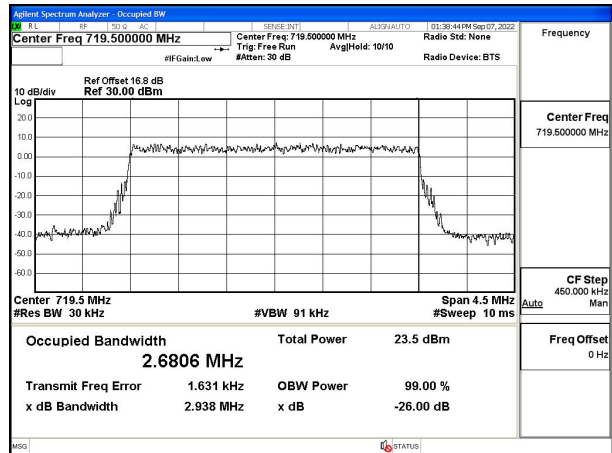


Fig.32

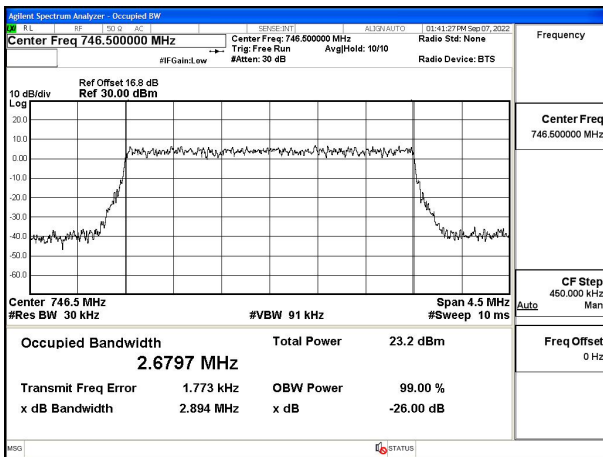


Fig.33

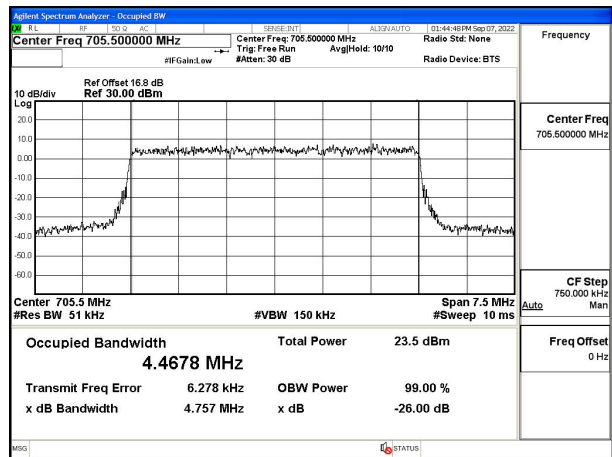


Fig.34

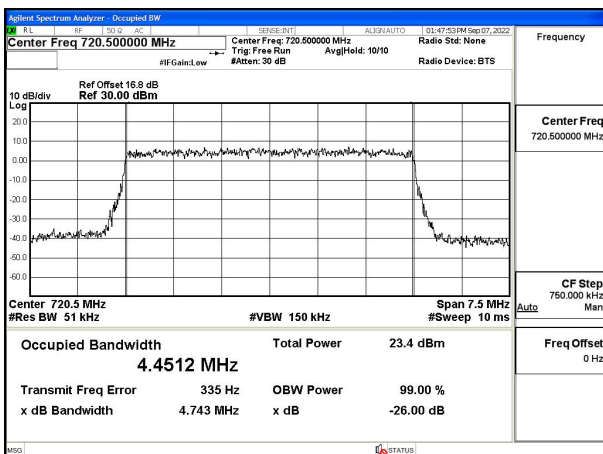


Fig.35

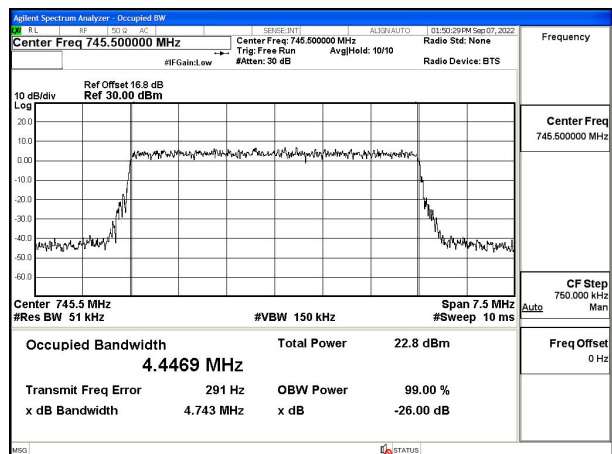


Fig.36

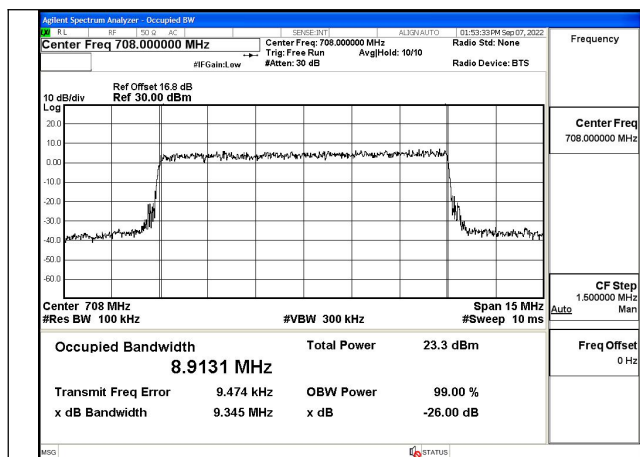


Fig.37

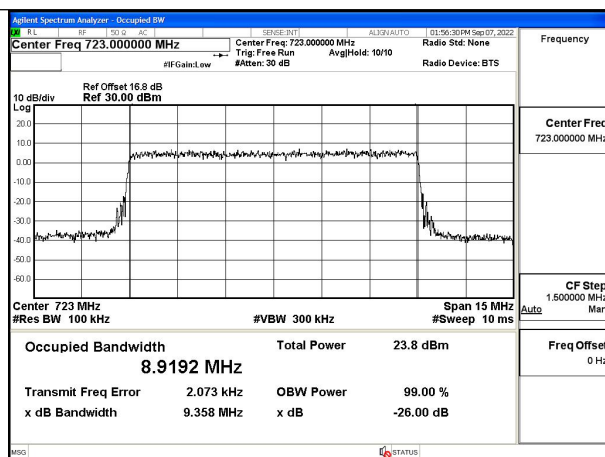


Fig.38

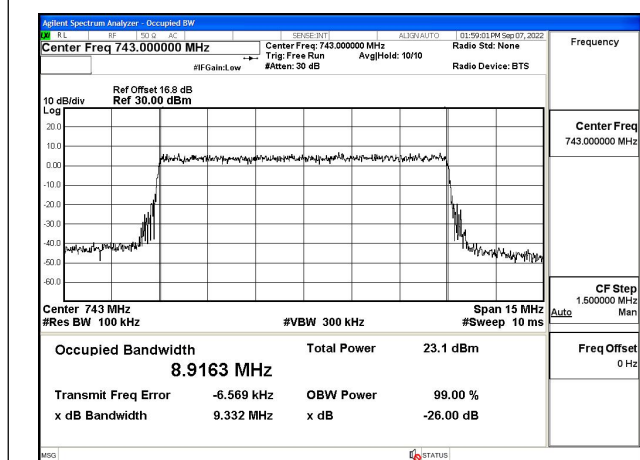


Fig.39

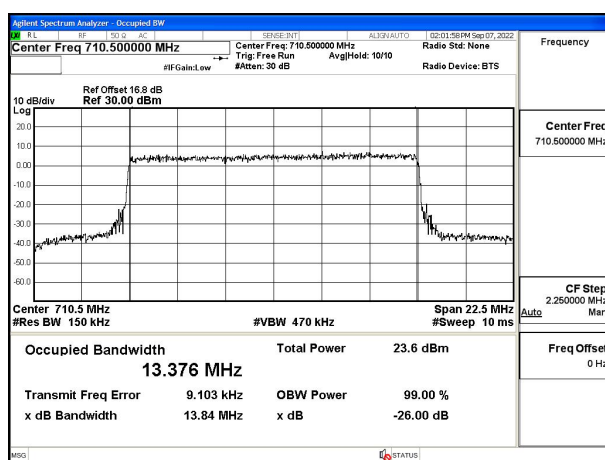


Fig.40

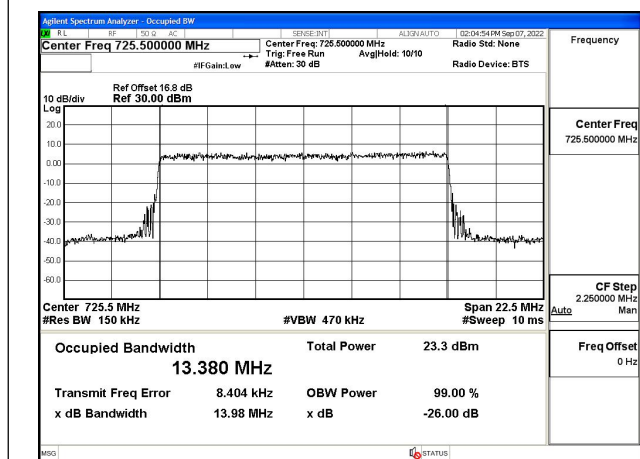


Fig.41

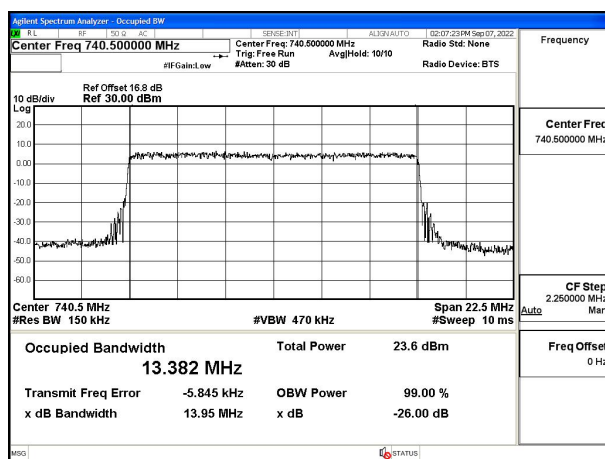


Fig.42