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	26.37
QPSK	704.5	27225	3	1	8	26.46
QPSK	704.5	27225	3	1	14	26.46
QPSK	704.5	27225	3	8	0	25.81
QPSK	704.5	27225	3	8	4	25.56
QPSK	704.5	27225	3	8	7	25.60
QPSK	704.5	27225	3	15	0	25.48
QPSK	719.5	27375	3	1	0	26.47
QPSK	719.5	27375	3	1	8	26.48
QPSK	719.5	27375	3	1	14	26.35
QPSK	719.5	27375	3	8	0	25.60
QPSK	719.5	27375	3	8	4	25.44
QPSK	719.5	27375	3	8	7	25.41
QPSK	719.5	27375	3	15	0	25.59
QPSK	746.5	27645	3	1	0	26.54
QPSK	746.5	27645	3	1	8	26.48
QPSK	746.5	27645	3	1	14	26.35
QPSK	746.5	27645	3	8	0	25.41
QPSK	746.5	27645	3	8	4	25.33
QPSK	746.5	27645	3	8	7	25.37
QPSK	746.5	27645	3	15	0	25.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704.5	27225	3	1	0	26.12
16QAM	704.5	27225	3	1	8	25.92
16QAM	704.5	27225	3	1	14	26.48
16QAM	704.5	27225	3	8	0	24.63
16QAM	704.5	27225	3	8	4	24.82
16QAM	704.5	27225	3	8	7	24.78
16QAM	704.5	27225	3	15	0	24.59
16QAM	719.5	27375	3	1	0	26.18
16QAM	719.5	27375	3	1	8	26.04
16QAM	719.5	27375	3	1	14	25.69
16QAM	719.5	27375	3	8	0	24.59
16QAM	719.5	27375	3	8	4	24.62
16QAM	719.5	27375	3	8	7	24.60
16QAM	719.5	27375	3	15	0	24.55
16QAM	746.5	27645	3	1	0	25.48
16QAM	746.5	27645	3	1	8	25.30
16QAM	746.5	27645	3	1	14	25.53
16QAM	746.5	27645	3	8	0	24.42
16QAM	746.5	27645	3	8	4	24.57
16QAM	746.5	27645	3	8	7	24.33
16QAM	746.5	27645	3	15	0	24.55
64QAM	704.5	27225	3	1	0	24.57
64QAM	704.5	27225	3	1	8	24.67
64QAM	704.5	27225	3	1	14	24.80
64QAM	704.5	27225	3	8	0	23.44
64QAM	704.5	27225	3	8	4	23.63
64QAM	704.5	27225	3	8	7	23.47
64QAM	704.5	27225	3	15	0	23.83
64QAM	719.5	27375	3	1	0	24.53
64QAM	719.5	27375	3	1	8	24.70
64QAM	719.5	27375	3	1	14	24.67
64QAM	719.5	27375	3	8	0	23.51
64QAM	719.5	27375	3	8	4	23.45
64QAM	719.5	27375	3	8	7	23.54
64QAM	719.5	27375	3	15	0	23.65
64QAM	746.5	27645	3	1	0	24.05
64QAM	746.5	27645	3	1	8	24.47
64QAM	746.5	27645	3	1	14	24.26
64QAM	746.5	27645	3	8	0	23.28
64QAM	746.5	27645	3	8	4	23.44
64QAM	746.5	27645	3	8	7	23.60
64QAM	746.5	27645	3	15	0	23.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	705.5	27235	5	1	0	26.35
QPSK	705.5	27235	5	1	12	26.56
QPSK	705.5	27235	5	1	24	26.58
QPSK	705.5	27235	5	12	0	25.67
QPSK	705.5	27235	5	12	7	25.69
QPSK	705.5	27235	5	12	13	25.62
QPSK	705.5	27235	5	25	0	25.57
QPSK	720.5	27385	5	1	0	26.55
QPSK	720.5	27385	5	1	12	26.54
QPSK	720.5	27385	5	1	24	26.45
QPSK	720.5	27385	5	12	0	25.46
QPSK	720.5	27385	5	12	7	25.50
QPSK	720.5	27385	5	12	13	25.57
QPSK	720.5	27385	5	25	0	25.58
QPSK	745.5	27635	5	1	0	26.47
QPSK	745.5	27635	5	1	12	26.34
QPSK	745.5	27635	5	1	24	26.51
QPSK	745.5	27635	5	12	0	25.34
QPSK	745.5	27635	5	12	7	25.44
QPSK	745.5	27635	5	12	13	25.41
QPSK	745.5	27635	5	25	0	25.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	705.5	27235	5	1	0	25.89
16QAM	705.5	27235	5	1	12	25.96
16QAM	705.5	27235	5	1	24	26.03
16QAM	705.5	27235	5	12	0	24.52
16QAM	705.5	27235	5	12	7	24.61
16QAM	705.5	27235	5	12	13	24.57
16QAM	705.5	27235	5	25	0	24.53
16QAM	720.5	27385	5	1	0	26.55
16QAM	720.5	27385	5	1	12	26.12
16QAM	720.5	27385	5	1	24	26.07
16QAM	720.5	27385	5	12	0	24.69
16QAM	720.5	27385	5	12	7	24.63
16QAM	720.5	27385	5	12	13	24.76
16QAM	720.5	27385	5	25	0	24.70
16QAM	745.5	27635	5	1	0	25.74
16QAM	745.5	27635	5	1	12	25.25
16QAM	745.5	27635	5	1	24	25.84
16QAM	745.5	27635	5	12	0	24.41
16QAM	745.5	27635	5	12	7	24.60
16QAM	745.5	27635	5	12	13	24.42
16QAM	745.5	27635	5	25	0	24.55
64QAM	705.5	27235	5	1	0	24.88
64QAM	705.5	27235	5	1	12	24.83
64QAM	705.5	27235	5	1	24	24.52
64QAM	705.5	27235	5	12	0	23.48
64QAM	705.5	27235	5	12	7	23.54
64QAM	705.5	27235	5	12	13	23.62
64QAM	705.5	27235	5	25	0	23.50
64QAM	720.5	27385	5	1	0	24.91
64QAM	720.5	27385	5	1	12	24.75
64QAM	720.5	27385	5	1	24	24.47
64QAM	720.5	27385	5	12	0	23.79
64QAM	720.5	27385	5	12	7	23.57
64QAM	720.5	27385	5	12	13	23.45
64QAM	720.5	27385	5	25	0	23.56
64QAM	745.5	27635	5	1	0	24.43
64QAM	745.5	27635	5	1	12	24.10
64QAM	745.5	27635	5	1	24	24.51
64QAM	745.5	27635	5	12	0	23.44
64QAM	745.5	27635	5	12	7	23.42
64QAM	745.5	27635	5	12	13	23.39
64QAM	745.5	27635	5	25	0	23.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	708	27260	10	1	0	26.93
QPSK	708	27260	10	1	25	26.81
QPSK	708	27260	10	1	49	26.78
QPSK	708	27260	10	25	0	25.74
QPSK	708	27260	10	25	12	25.47
QPSK	708	27260	10	25	25	25.52
QPSK	708	27260	10	50	0	25.64
QPSK	723	27410	10	1	0	26.83
QPSK	723	27410	10	1	25	26.74
QPSK	723	27410	10	1	49	26.75
QPSK	723	27410	10	25	0	25.54
QPSK	723	27410	10	25	12	25.44
QPSK	723	27410	10	25	25	25.42
QPSK	723	27410	10	50	0	25.58
QPSK	743	27610	10	1	0	26.53
QPSK	743	27610	10	1	25	26.44
QPSK	743	27610	10	1	49	26.44
QPSK	743	27610	10	25	0	25.34
QPSK	743	27610	10	25	12	25.48
QPSK	743	27610	10	25	25	25.37
QPSK	743	27610	10	50	0	25.21

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	708	27260	10	1	0	26.05
16QAM	708	27260	10	1	25	26.54
16QAM	708	27260	10	1	49	26.01
16QAM	708	27260	10	25	0	24.73
16QAM	708	27260	10	25	12	24.58
16QAM	708	27260	10	25	25	24.73
16QAM	708	27260	10	50	0	24.59
16QAM	723	27410	10	1	0	25.41
16QAM	723	27410	10	1	25	25.23
16QAM	723	27410	10	1	49	25.36
16QAM	723	27410	10	25	0	24.51
16QAM	723	27410	10	25	12	24.53
16QAM	723	27410	10	25	25	24.60
16QAM	723	27410	10	50	0	24.60
16QAM	743	27610	10	1	0	26.33
16QAM	743	27610	10	1	25	25.68
16QAM	743	27610	10	1	49	26.18
16QAM	743	27610	10	25	0	24.31
16QAM	743	27610	10	25	12	24.35
16QAM	743	27610	10	25	25	24.48
16QAM	743	27610	10	50	0	24.42
64QAM	708	27260	10	1	0	24.40
64QAM	708	27260	10	1	25	25.07
64QAM	708	27260	10	1	49	24.71
64QAM	708	27260	10	25	0	23.51
64QAM	708	27260	10	25	12	23.61
64QAM	708	27260	10	25	25	23.72
64QAM	708	27260	10	50	0	23.67
64QAM	723	27410	10	1	0	24.42
64QAM	723	27410	10	1	25	24.93
64QAM	723	27410	10	1	49	24.47
64QAM	723	27410	10	25	0	23.52
64QAM	723	27410	10	25	12	23.39
64QAM	723	27410	10	25	25	23.42
64QAM	723	27410	10	50	0	23.52
64QAM	743	27610	10	1	0	24.68
64QAM	743	27610	10	1	25	24.27
64QAM	743	27610	10	1	49	24.84
64QAM	743	27610	10	25	0	23.27
64QAM	743	27610	10	25	12	23.30
64QAM	743	27610	10	25	25	23.32
64QAM	743	27610	10	50	0	23.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	710.5	27285	15	1	0	26.69
QPSK	710.5	27285	15	1	37	26.36
QPSK	710.5	27285	15	1	74	26.56
QPSK	710.5	27285	15	36	0	25.53
QPSK	710.5	27285	15	36	29	25.51
QPSK	710.5	27285	15	36	30	25.57
QPSK	710.5	27285	15	75	0	25.66
QPSK	725.5	27435	15	1	0	26.52
QPSK	725.5	27435	15	1	37	26.57
QPSK	725.5	27435	15	1	74	26.30
QPSK	725.5	27435	15	36	0	25.61
QPSK	725.5	27435	15	36	29	25.39
QPSK	725.5	27435	15	36	30	25.40
QPSK	725.5	27435	15	75	0	25.36
QPSK	740.5	27585	15	1	0	26.51
QPSK	740.5	27585	15	1	37	26.34
QPSK	740.5	27585	15	1	74	26.35
QPSK	740.5	27585	15	36	0	25.47
QPSK	740.5	27585	15	36	29	25.45
QPSK	740.5	27585	15	36	30	25.45
QPSK	740.5	27585	15	75	0	25.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	710.5	27285	15	1	0	25.25
16QAM	710.5	27285	15	1	37	25.47
16QAM	710.5	27285	15	1	74	25.38
16QAM	710.5	27285	15	36	0	24.50
16QAM	710.5	27285	15	36	29	24.60
16QAM	710.5	27285	15	36	30	24.68
16QAM	710.5	27285	15	75	0	24.62
16QAM	725.5	27435	15	1	0	26.39
16QAM	725.5	27435	15	1	37	26.07
16QAM	725.5	27435	15	1	74	25.48
16QAM	725.5	27435	15	36	0	24.53
16QAM	725.5	27435	15	36	29	24.45
16QAM	725.5	27435	15	36	30	24.34
16QAM	725.5	27435	15	75	0	24.59
16QAM	740.5	27585	15	1	0	25.58
16QAM	740.5	27585	15	1	37	26.12
16QAM	740.5	27585	15	1	74	26.41
16QAM	740.5	27585	15	36	0	24.29
16QAM	740.5	27585	15	36	29	24.23
16QAM	740.5	27585	15	36	30	24.32
16QAM	740.5	27585	15	75	0	24.38
64QAM	710.5	27285	15	1	0	25.00
64QAM	710.5	27285	15	1	37	25.12
64QAM	710.5	27285	15	1	74	24.77
64QAM	710.5	27285	15	36	0	23.65
64QAM	710.5	27285	15	36	29	23.57
64QAM	710.5	27285	15	36	30	23.63
64QAM	710.5	27285	15	75	0	23.62
64QAM	725.5	27435	15	1	0	24.79
64QAM	725.5	27435	15	1	37	24.67
64QAM	725.5	27435	15	1	74	24.39
64QAM	725.5	27435	15	36	0	23.68
64QAM	725.5	27435	15	36	29	23.57
64QAM	725.5	27435	15	36	30	23.40
64QAM	725.5	27435	15	75	0	23.52
64QAM	740.5	27585	15	1	0	24.69
64QAM	740.5	27585	15	1	37	24.17
64QAM	740.5	27585	15	1	74	23.98
64QAM	740.5	27585	15	36	0	23.33
64QAM	740.5	27585	15	36	29	23.36
64QAM	740.5	27585	15	36	30	23.38
64QAM	740.5	27585	15	75	0	23.44

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	713	27310	20	1	0	26.64
QPSK	713	27310	20	1	49	26.69
QPSK	713	27310	20	1	99	26.54
QPSK	713	27310	20	50	0	25.43
QPSK	713	27310	20	50	24	25.70
QPSK	713	27310	20	50	50	25.58
QPSK	713	27310	20	100	0	25.66
QPSK	728	27460	20	1	0	26.71
QPSK	728	27460	20	1	49	26.39
QPSK	728	27460	20	1	99	26.40
QPSK	728	27460	20	50	0	25.48
QPSK	728	27460	20	50	24	25.53
QPSK	728	27460	20	50	50	25.28
QPSK	728	27460	20	100	0	25.32
QPSK	738	27560	20	1	0	26.56
QPSK	738	27560	20	1	49	26.45
QPSK	738	27560	20	1	99	26.51
QPSK	738	27560	20	50	0	25.50
QPSK	738	27560	20	50	24	25.42
QPSK	738	27560	20	50	50	25.30
QPSK	738	27560	20	100	0	25.38

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	713	27310	20	1	0	25.79
16QAM	713	27310	20	1	49	25.97
16QAM	713	27310	20	1	99	25.95
16QAM	713	27310	20	50	0	24.57
16QAM	713	27310	20	50	24	24.56
16QAM	713	27310	20	50	50	24.67
16QAM	713	27310	20	100	0	24.58
16QAM	728	27460	20	1	0	26.26
16QAM	728	27460	20	1	49	25.90
16QAM	728	27460	20	1	99	25.43
16QAM	728	27460	20	50	0	24.42
16QAM	728	27460	20	50	24	24.55
16QAM	728	27460	20	50	50	24.43
16QAM	728	27460	20	100	0	24.45
16QAM	738	27560	20	1	0	25.27
16QAM	738	27560	20	1	49	25.46
16QAM	738	27560	20	1	99	25.59
16QAM	738	27560	20	50	0	24.55
16QAM	738	27560	20	50	24	24.39
16QAM	738	27560	20	50	50	24.37
16QAM	738	27560	20	100	0	24.51
64QAM	713	27310	20	1	0	24.37
64QAM	713	27310	20	1	49	24.94
64QAM	713	27310	20	1	99	25.05
64QAM	713	27310	20	50	0	23.67
64QAM	713	27310	20	50	24	23.67
64QAM	713	27310	20	50	50	23.57
64QAM	713	27310	20	100	0	23.50
64QAM	728	27460	20	1	0	24.66
64QAM	728	27460	20	1	49	23.88
64QAM	728	27460	20	1	99	24.03
64QAM	728	27460	20	50	0	23.61
64QAM	728	27460	20	50	24	23.62
64QAM	728	27460	20	50	50	23.33
64QAM	728	27460	20	100	0	23.42
64QAM	738	27560	20	1	0	24.68
64QAM	738	27560	20	1	49	24.58
64QAM	738	27560	20	1	99	24.53
64QAM	738	27560	20	50	0	23.45
64QAM	738	27560	20	50	24	23.43
64QAM	738	27560	20	50	50	23.53
64QAM	738	27560	20	100	0	23.41

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	2.67	Fig.1
28	QPSK	719.5	27375	3	15	0	2.67	Fig.2
28	QPSK	746.5	27645	3	15	0	2.68	Fig.3
28	QPSK	705.5	27235	5	25	0	4.46	Fig.4
28	QPSK	720.5	27385	5	25	0	4.46	Fig.5
28	QPSK	745.5	27635	5	25	0	4.46	Fig.6
28	QPSK	708	27260	10	50	0	8.90	Fig.7
28	QPSK	723	27410	10	50	0	8.94	Fig.8
28	QPSK	743	27610	10	50	0	8.92	Fig.9
28	QPSK	710.5	27285	15	75	0	13.34	Fig.10
28	QPSK	725.5	27435	15	75	0	13.36	Fig.11
28	QPSK	740.5	27585	15	75	0	13.34	Fig.12
28	QPSK	713	27310	20	100	0	17.83	Fig.13
28	QPSK	728	27460	20	100	0	17.83	Fig.14
28	QPSK	738	27560	20	100	0	17.83	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	2.67	Fig.17
28	16QAM	746.5	27645	3	15	0	2.68	Fig.18
28	16QAM	705.5	27235	5	25	0	4.47	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	8.92	Fig.24
28	16QAM	710.5	27285	15	75	0	13.34	Fig.25
28	16QAM	725.5	27435	15	75	0	13.38	Fig.26
28	16QAM	740.5	27585	15	75	0	13.37	Fig.27
28	16QAM	713	27310	20	100	0	17.81	Fig.28
28	16QAM	728	27460	20	100	0	17.81	Fig.29
28	16QAM	738	27560	20	100	0	17.82	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	4.46	Fig.34
28	64QAM	720.5	27385	5	25	0	4.45	Fig.35
28	64QAM	745.5	27635	5	25	0	4.44	Fig.36
28	64QAM	708	27260	10	50	0	8.91	Fig.37
28	64QAM	723	27410	10	50	0	8.91	Fig.38
28	64QAM	743	27610	10	50	0	8.92	Fig.39
28	64QAM	710.5	27285	15	75	0	13.35	Fig.40
28	64QAM	725.5	27435	15	75	0	13.36	Fig.41
28	64QAM	740.5	27585	15	75	0	13.37	Fig.42
28	64QAM	713	27310	20	100	0	17.79	Fig.43
28	64QAM	728	27460	20	100	0	17.84	Fig.44
28	64QAM	738	27560	20	100	0	17.86	Fig.45

Test Mode: QPSK

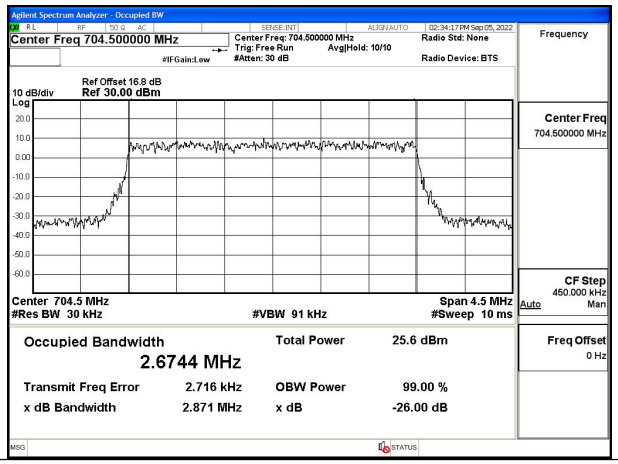

Fig.1

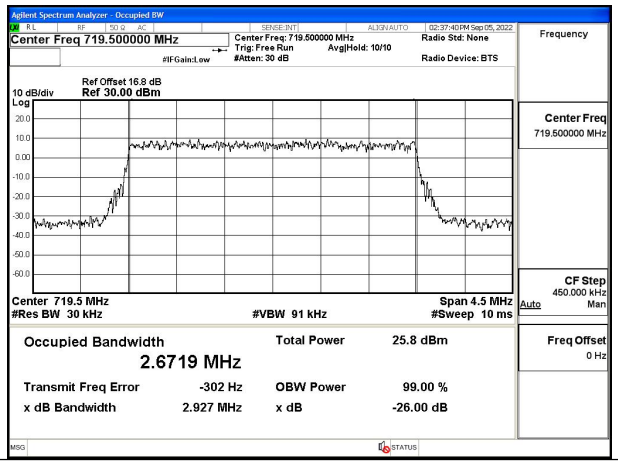

Fig.2

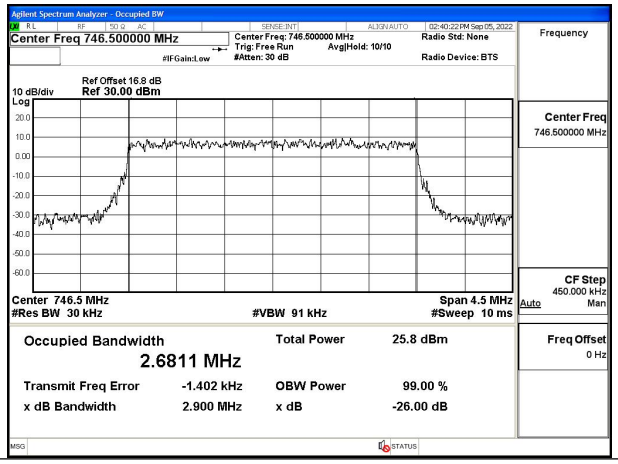

Fig.3

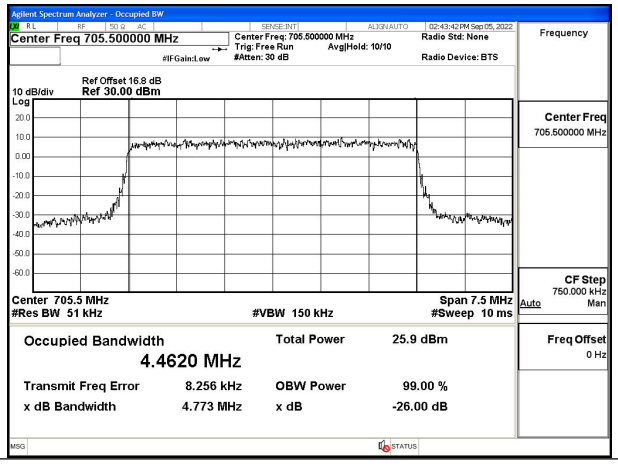

Fig.4

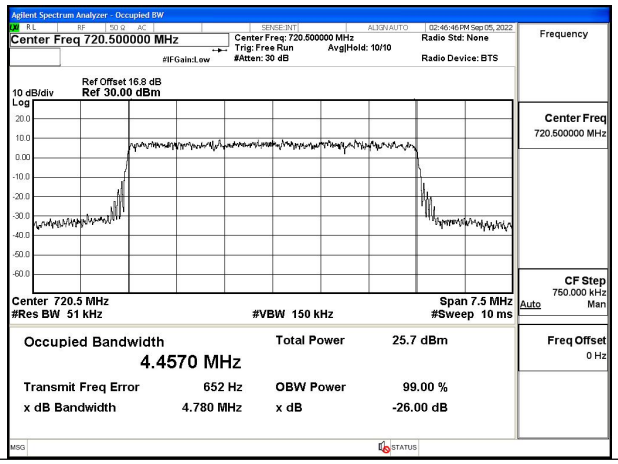

Fig.5

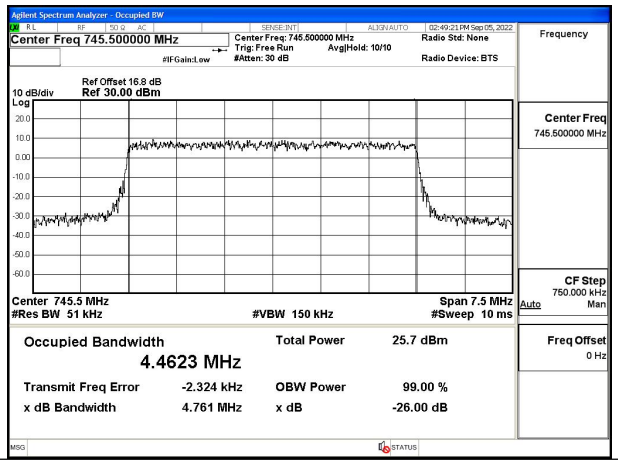

Fig.6

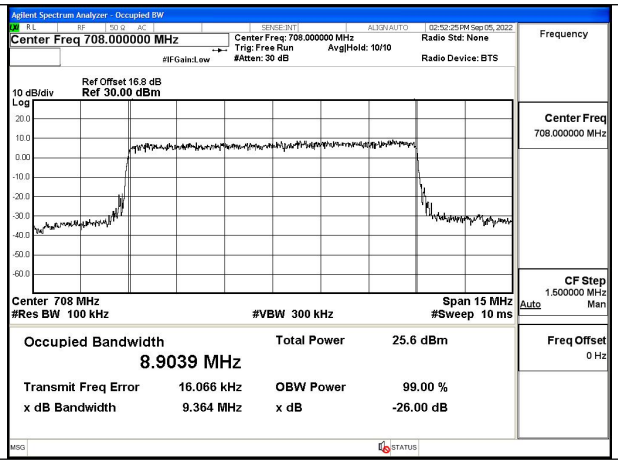

Fig.7

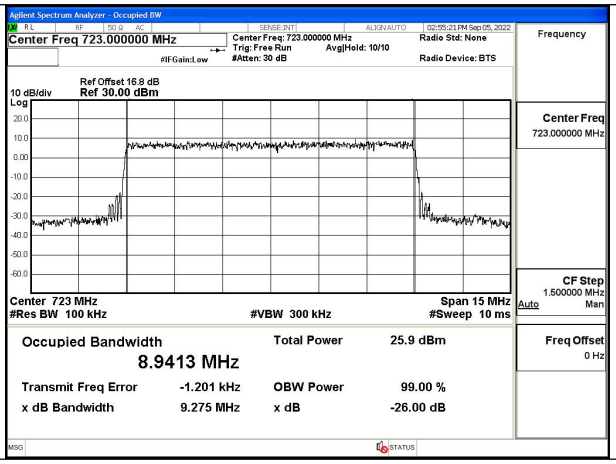

Fig.8

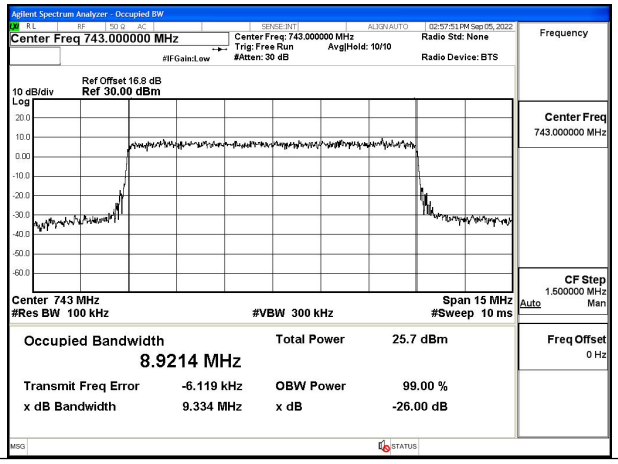

Fig.9

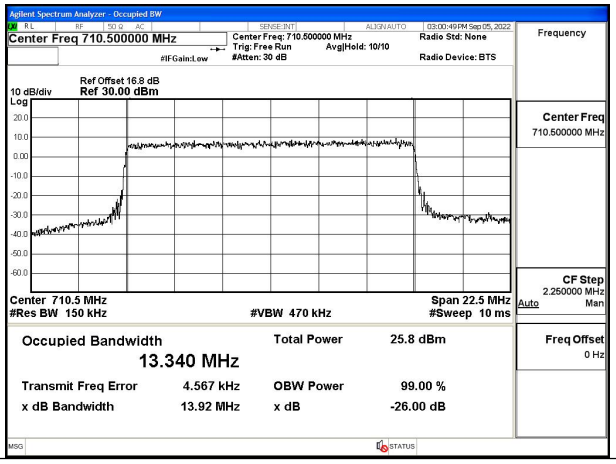

Fig.10

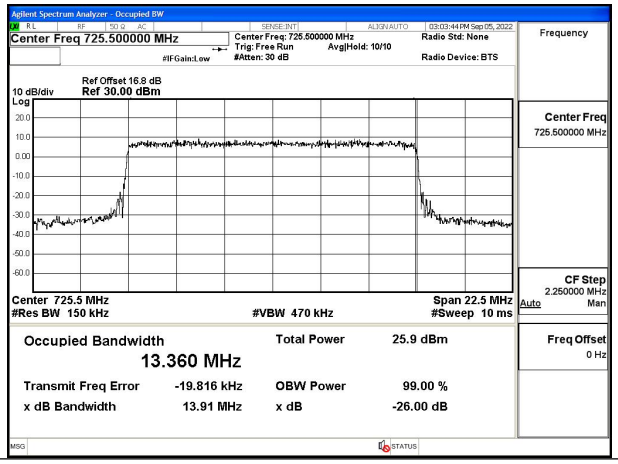

Fig.11

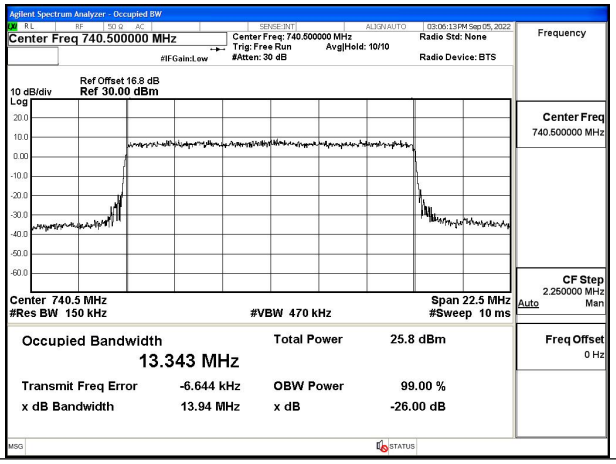

Fig.12

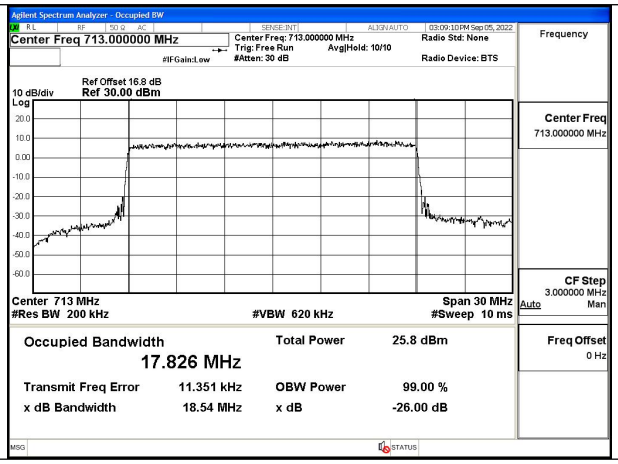

Fig.13

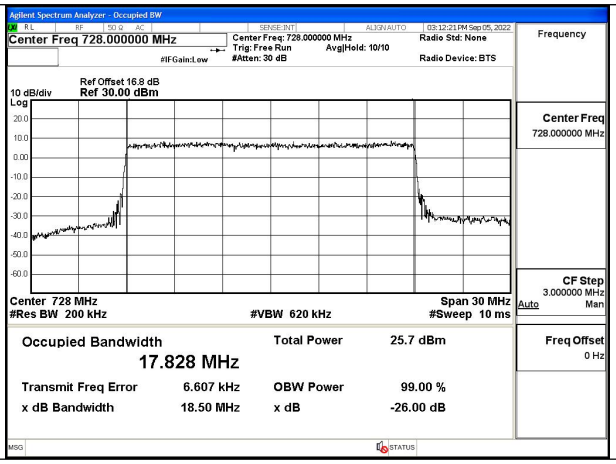

Fig.14

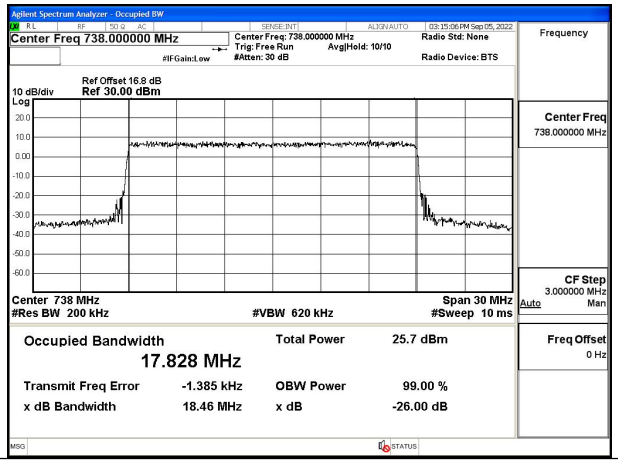

Fig.15

Test Mode: 16QAM

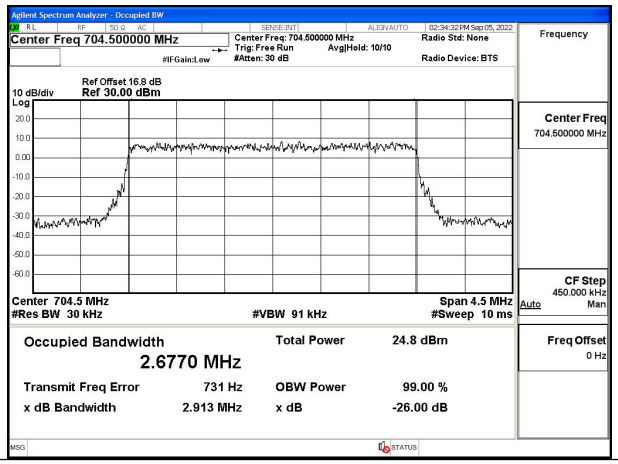

Fig.16

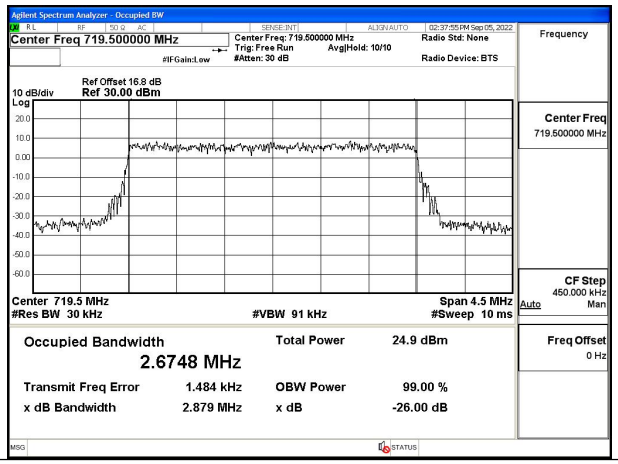

Fig.17

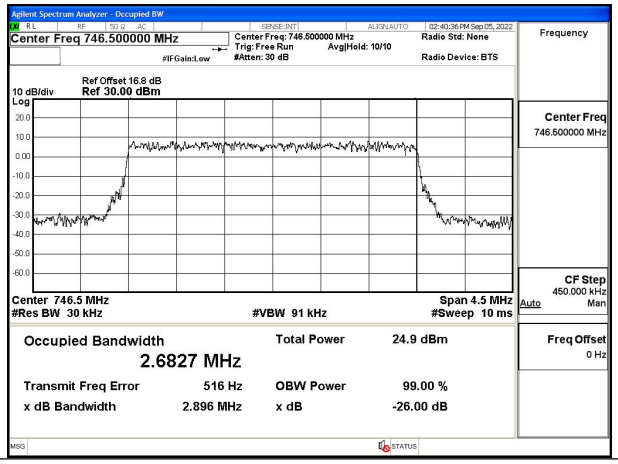

Fig.18

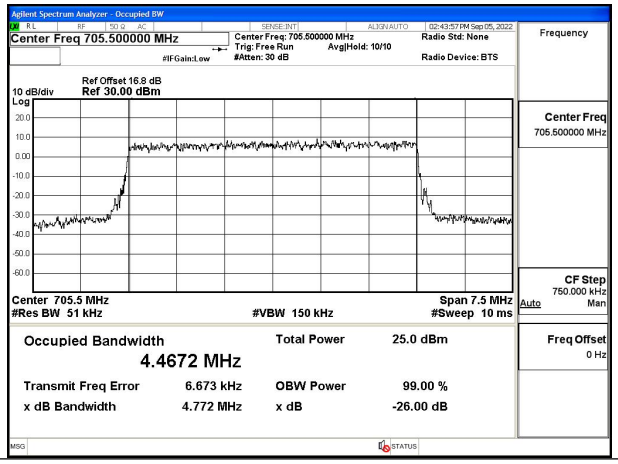

Fig.19

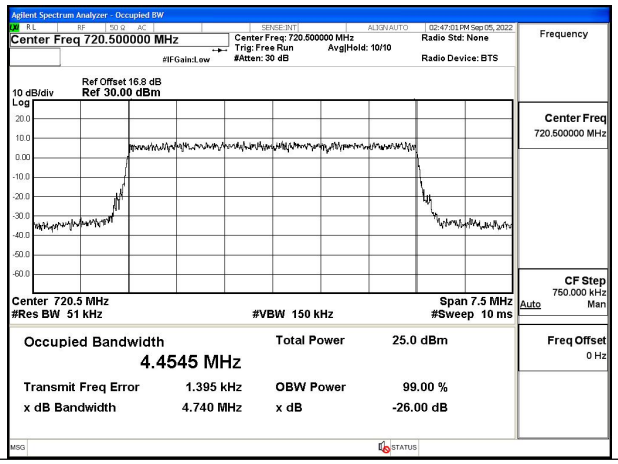

Fig.20

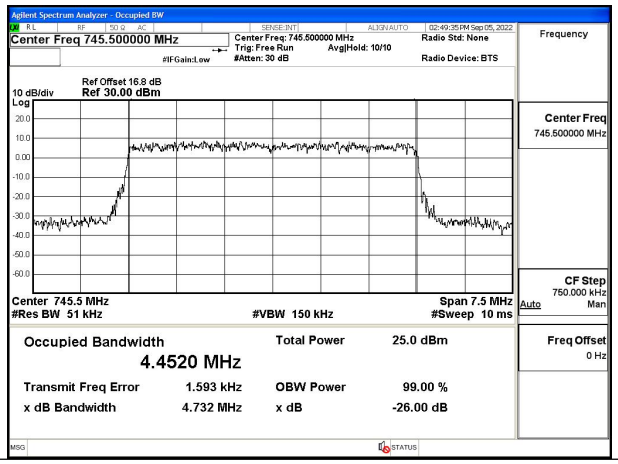

Fig.21

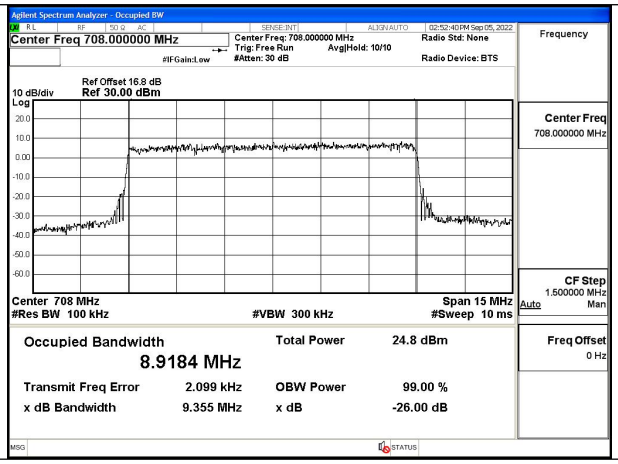

Fig.22

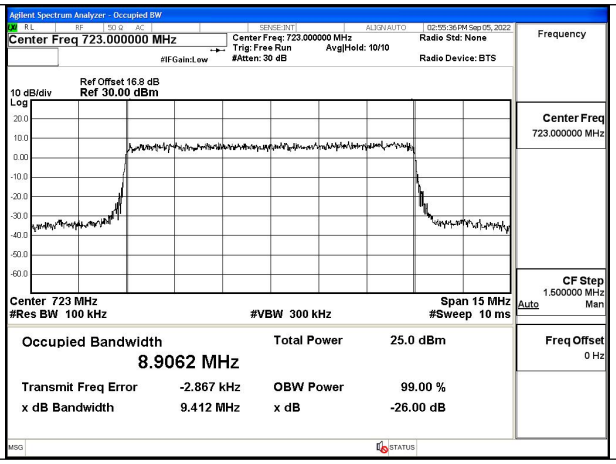

Fig.23

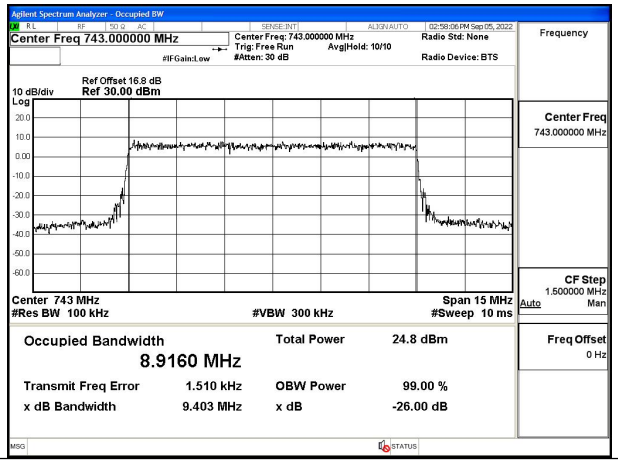

Fig.24

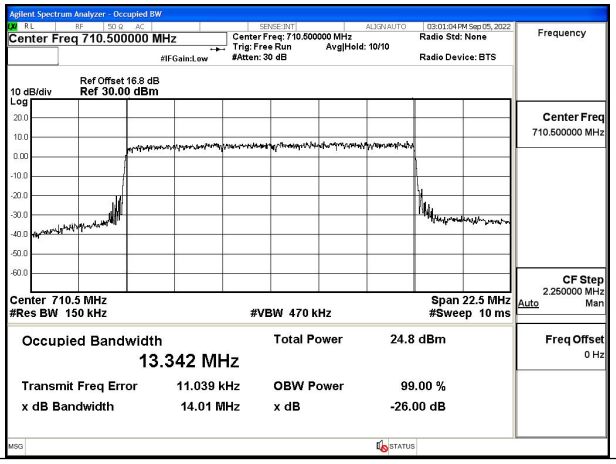

Fig.25

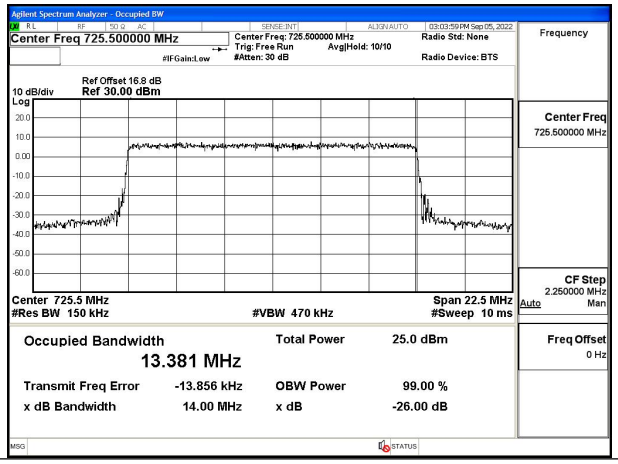

Fig.26

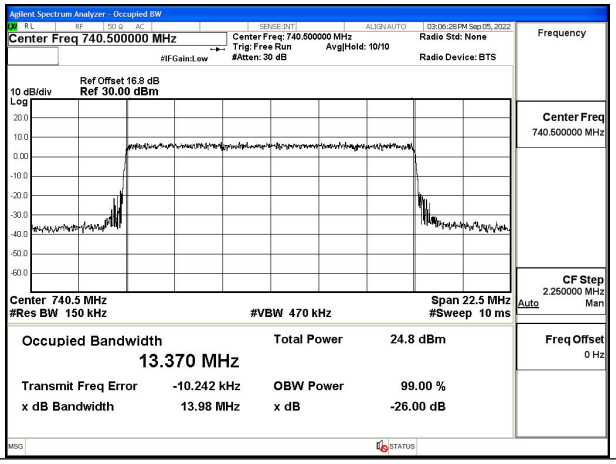

Fig.27

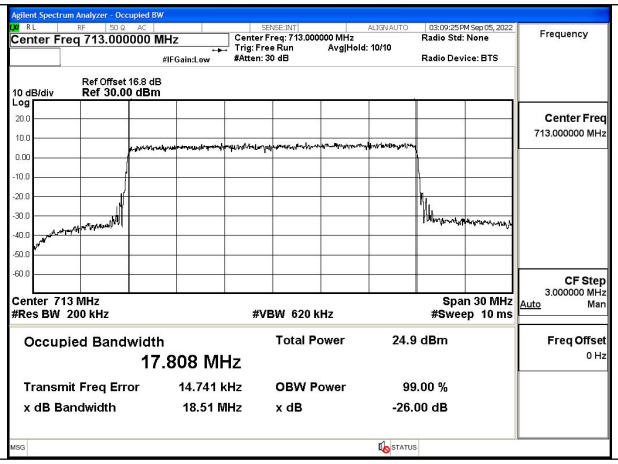

Fig.28

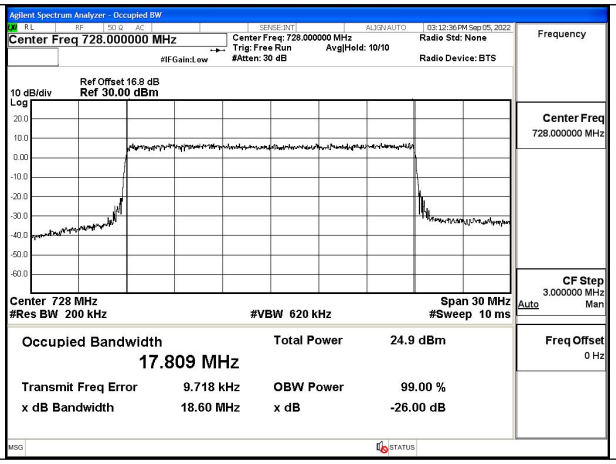

Fig.29

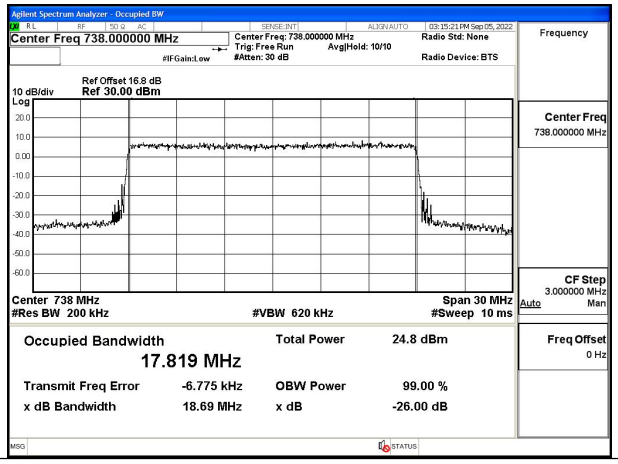

Fig.30

Test Mode: 64QAM

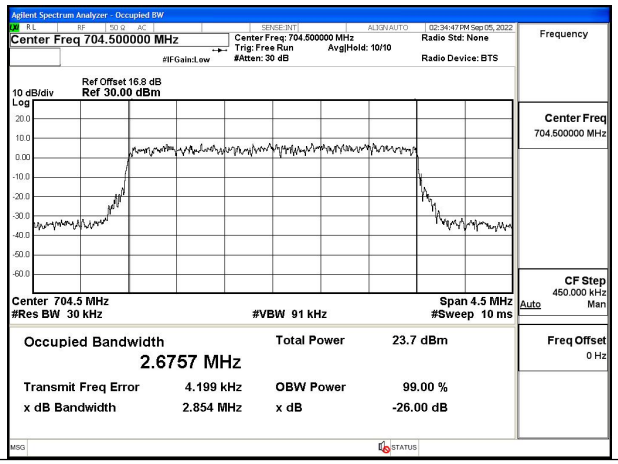

Fig.31

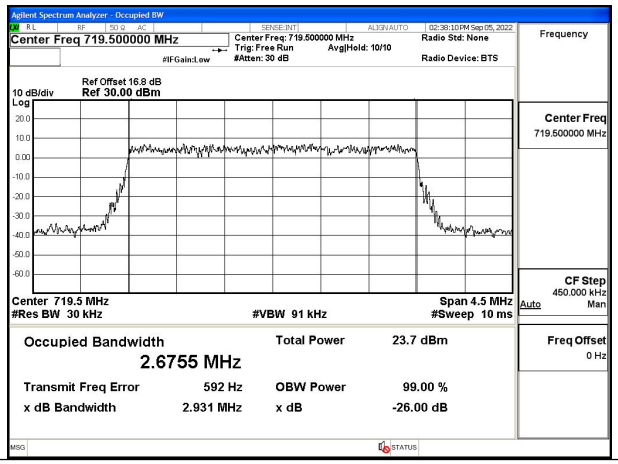

Fig.32

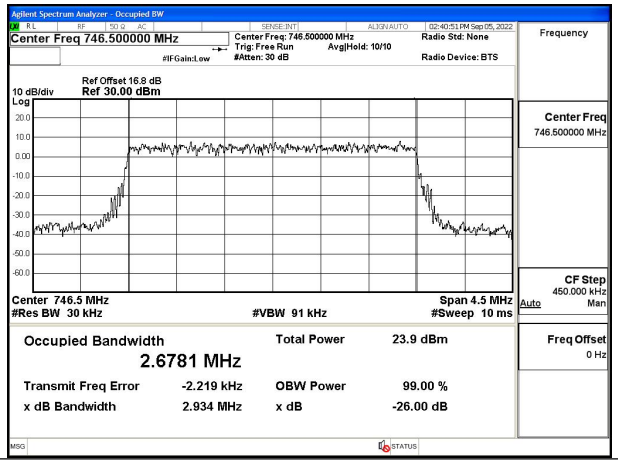

Fig.33

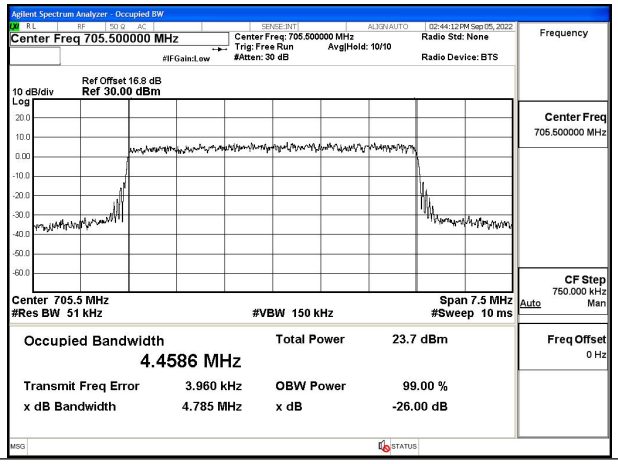

Fig.34

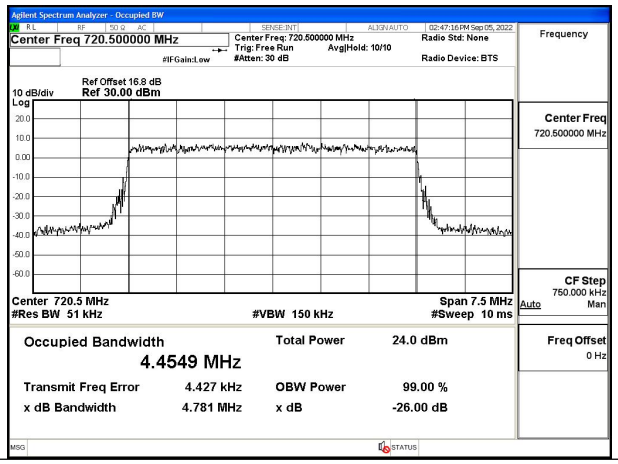

Fig.35

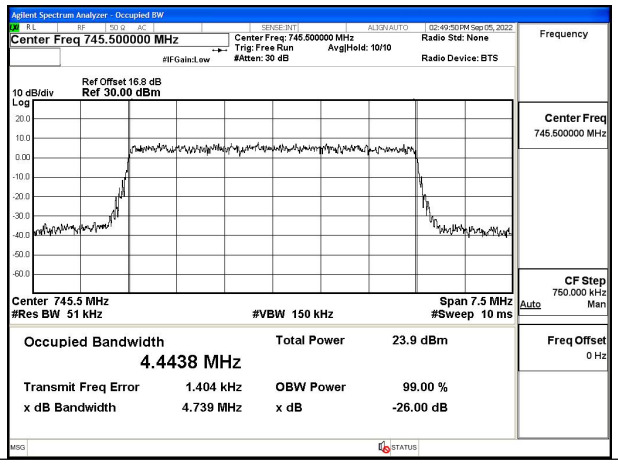

Fig.36

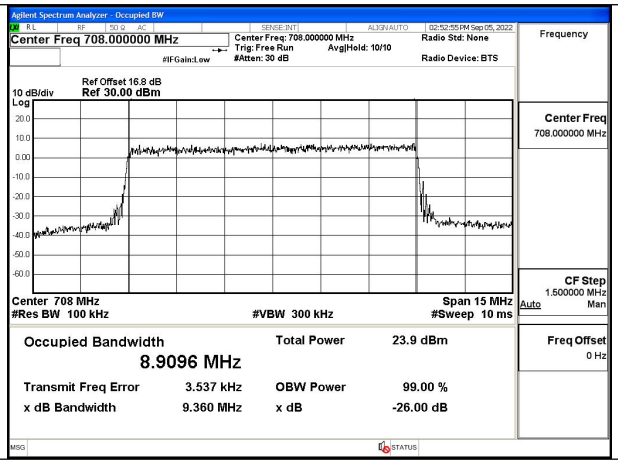

Fig.37

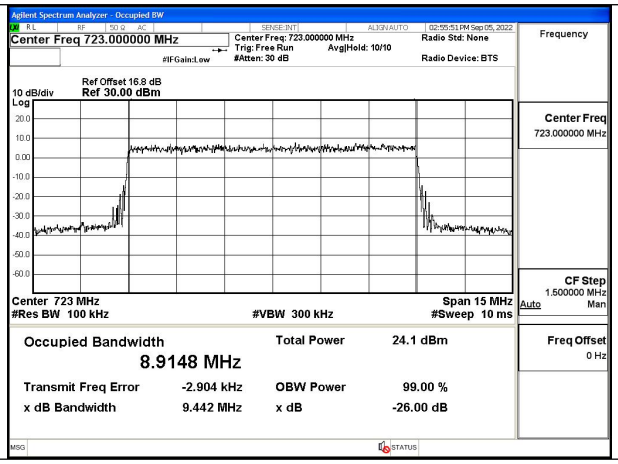

Fig.38

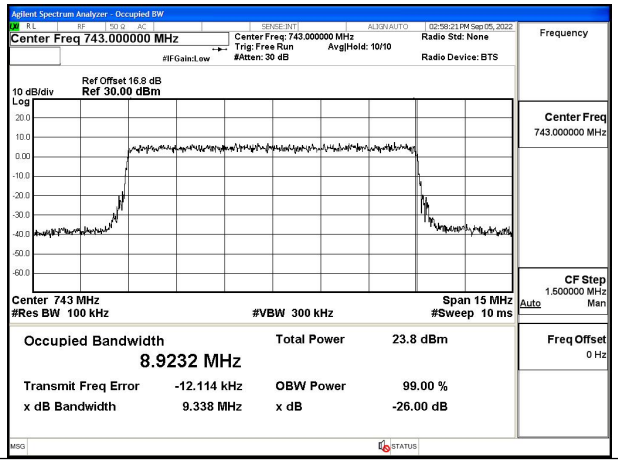

Fig.39

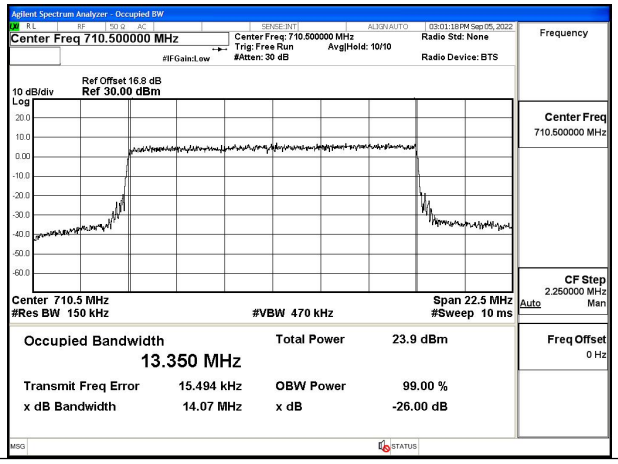

Fig.40

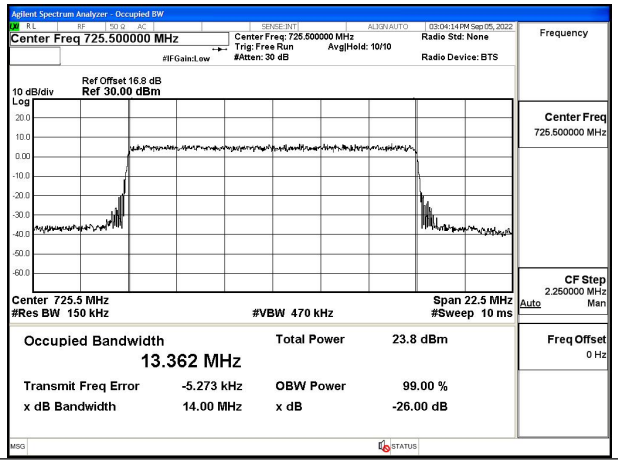

Fig.41

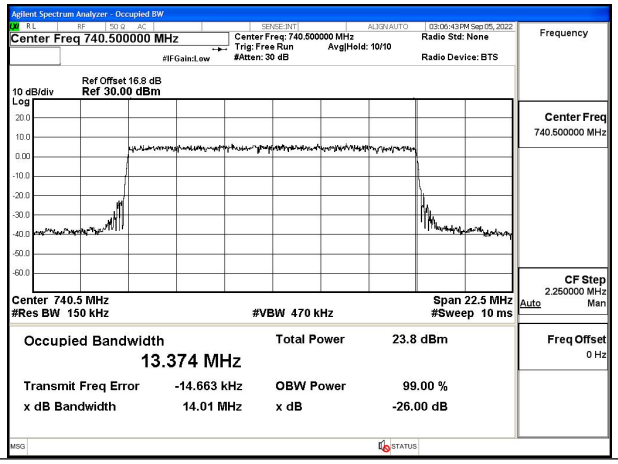

Fig.42