

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	22.85
QPSK	699.7	23017	1.4	1	3	23.06
QPSK	699.7	23017	1.4	1	5	23.13
QPSK	699.7	23017	1.4	3	0	23.22
QPSK	699.7	23017	1.4	3	1	23.24
QPSK	699.7	23017	1.4	3	3	23.24
QPSK	699.7	23017	1.4	6	0	22.33
QPSK	707.5	23095	1.4	1	0	23.26
QPSK	707.5	23095	1.4	1	3	23.47
QPSK	707.5	23095	1.4	1	5	23.31
QPSK	707.5	23095	1.4	3	0	23.30
QPSK	707.5	23095	1.4	3	1	23.38
QPSK	707.5	23095	1.4	3	3	23.27
QPSK	707.5	23095	1.4	6	0	22.19
QPSK	715.3	23173	1.4	1	0	23.40
QPSK	715.3	23173	1.4	1	3	23.35
QPSK	715.3	23173	1.4	1	5	23.26
QPSK	715.3	23173	1.4	3	0	23.31
QPSK	715.3	23173	1.4	3	1	23.41
QPSK	715.3	23173	1.4	3	3	23.23
QPSK	715.3	23173	1.4	6	0	22.26

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.55
16QAM	699.7	23017	1.4	1	3	22.62
16QAM	699.7	23017	1.4	1	5	22.54
16QAM	699.7	23017	1.4	3	0	22.48
16QAM	699.7	23017	1.4	3	1	22.71
16QAM	699.7	23017	1.4	3	3	22.46
16QAM	699.7	23017	1.4	6	0	20.68
16QAM	707.5	23095	1.4	1	0	22.39
16QAM	707.5	23095	1.4	1	3	22.63
16QAM	707.5	23095	1.4	1	5	23.10
16QAM	707.5	23095	1.4	3	0	22.70
16QAM	707.5	23095	1.4	3	1	22.68
16QAM	707.5	23095	1.4	3	3	22.88
16QAM	707.5	23095	1.4	6	0	21.00
16QAM	715.3	23173	1.4	1	0	22.49
16QAM	715.3	23173	1.4	1	3	22.37
16QAM	715.3	23173	1.4	1	5	22.34
16QAM	715.3	23173	1.4	3	0	22.51
16QAM	715.3	23173	1.4	3	1	22.43
16QAM	715.3	23173	1.4	3	3	22.29
16QAM	715.3	23173	1.4	6	0	21.37

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.36
QPSK	700.5	23025	3	1	8	23.35
QPSK	700.5	23025	3	1	14	23.40
QPSK	700.5	23025	3	8	0	22.26
QPSK	700.5	23025	3	8	4	22.09
QPSK	700.5	23025	3	8	7	22.34
QPSK	700.5	23025	3	15	0	22.19
QPSK	707.5	23095	3	1	0	23.23
QPSK	707.5	23095	3	1	8	23.41
QPSK	707.5	23095	3	1	14	23.30
QPSK	707.5	23095	3	8	0	22.29
QPSK	707.5	23095	3	8	4	22.28
QPSK	707.5	23095	3	8	7	22.20
QPSK	707.5	23095	3	15	0	22.38
QPSK	714.5	23165	3	1	0	23.35
QPSK	714.5	23165	3	1	8	23.33
QPSK	714.5	23165	3	1	14	23.23
QPSK	714.5	23165	3	8	0	22.32
QPSK	714.5	23165	3	8	4	22.29
QPSK	714.5	23165	3	8	7	22.26
QPSK	714.5	23165	3	15	0	22.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	22.43
16QAM	700.5	23025	3	1	8	23.12
16QAM	700.5	23025	3	1	14	22.64
16QAM	700.5	23025	3	8	0	21.40
16QAM	700.5	23025	3	8	4	21.30
16QAM	700.5	23025	3	8	7	21.52
16QAM	700.5	23025	3	15	0	21.31
16QAM	707.5	23095	3	1	0	22.54
16QAM	707.5	23095	3	1	8	22.97
16QAM	707.5	23095	3	1	14	23.11
16QAM	707.5	23095	3	8	0	21.49
16QAM	707.5	23095	3	8	4	21.57
16QAM	707.5	23095	3	8	7	21.51
16QAM	707.5	23095	3	15	0	21.55
16QAM	714.5	23165	3	1	0	22.47
16QAM	714.5	23165	3	1	8	22.47
16QAM	714.5	23165	3	1	14	22.77
16QAM	714.5	23165	3	8	0	21.42
16QAM	714.5	23165	3	8	4	21.44
16QAM	714.5	23165	3	8	7	21.39
16QAM	714.5	23165	3	15	0	21.54

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.26
QPSK	701.5	23035	5	1	12	23.24
QPSK	701.5	23035	5	1	24	23.37
QPSK	701.5	23035	5	12	0	22.11
QPSK	701.5	23035	5	12	7	22.20
QPSK	701.5	23035	5	12	13	22.35
QPSK	701.5	23035	5	25	0	22.33
QPSK	707.5	23095	5	1	0	23.34
QPSK	707.5	23095	5	1	12	23.24
QPSK	707.5	23095	5	1	24	23.34
QPSK	707.5	23095	5	12	0	22.39
QPSK	707.5	23095	5	12	7	22.34
QPSK	707.5	23095	5	12	13	22.21
QPSK	707.5	23095	5	25	0	22.33
QPSK	713.5	23155	5	1	0	23.53
QPSK	713.5	23155	5	1	12	23.56
QPSK	713.5	23155	5	1	24	23.53
QPSK	713.5	23155	5	12	0	22.23
QPSK	713.5	23155	5	12	7	22.31
QPSK	713.5	23155	5	12	13	22.16
QPSK	713.5	23155	5	25	0	22.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.48
16QAM	701.5	23035	5	1	12	23.19
16QAM	701.5	23035	5	1	24	22.91
16QAM	701.5	23035	5	12	0	21.30
16QAM	701.5	23035	5	12	7	21.43
16QAM	701.5	23035	5	12	13	21.28
16QAM	701.5	23035	5	25	0	21.30
16QAM	707.5	23095	5	1	0	23.17
16QAM	707.5	23095	5	1	12	23.03
16QAM	707.5	23095	5	1	24	23.06
16QAM	707.5	23095	5	12	0	21.16
16QAM	707.5	23095	5	12	7	21.42
16QAM	707.5	23095	5	12	13	21.22
16QAM	707.5	23095	5	25	0	21.32
16QAM	713.5	23155	5	1	0	22.44
16QAM	713.5	23155	5	1	12	22.97
16QAM	713.5	23155	5	1	24	22.54
16QAM	713.5	23155	5	12	0	21.34
16QAM	713.5	23155	5	12	7	21.29
16QAM	713.5	23155	5	12	13	21.33
16QAM	713.5	23155	5	25	0	21.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.41
QPSK	704	23060	10	1	25	23.39
QPSK	704	23060	10	1	49	23.35
QPSK	704	23060	10	25	0	22.26
QPSK	704	23060	10	25	12	22.39
QPSK	704	23060	10	25	25	22.45
QPSK	704	23060	10	50	0	22.22
QPSK	707.5	23095	10	1	0	23.63
QPSK	707.5	23095	10	1	25	23.63
QPSK	707.5	23095	10	1	49	23.50
QPSK	707.5	23095	10	25	0	22.42
QPSK	707.5	23095	10	25	12	22.27
QPSK	707.5	23095	10	25	25	22.30
QPSK	707.5	23095	10	50	0	22.32
QPSK	711	23130	10	1	0	23.31
QPSK	711	23130	10	1	25	23.46
QPSK	711	23130	10	1	49	23.20
QPSK	711	23130	10	25	0	22.38
QPSK	711	23130	10	25	12	22.33
QPSK	711	23130	10	25	25	22.26
QPSK	711	23130	10	50	0	22.24

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	23.19
16QAM	704	23060	10	1	25	22.99
16QAM	704	23060	10	1	49	23.12
16QAM	704	23060	10	25	0	21.54
16QAM	704	23060	10	25	12	21.53
16QAM	704	23060	10	25	25	21.60
16QAM	704	23060	10	50	0	21.40
16QAM	707.5	23095	10	1	0	22.58
16QAM	707.5	23095	10	1	25	22.86
16QAM	707.5	23095	10	1	49	23.04
16QAM	707.5	23095	10	25	0	21.55
16QAM	707.5	23095	10	25	12	21.29
16QAM	707.5	23095	10	25	25	21.65
16QAM	707.5	23095	10	50	0	21.51
16QAM	711	23130	10	1	0	22.62
16QAM	711	23130	10	1	25	22.37
16QAM	711	23130	10	1	49	22.55
16QAM	711	23130	10	25	0	21.24
16QAM	711	23130	10	25	12	21.42
16QAM	711	23130	10	25	25	21.36
16QAM	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	1.073	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.076	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.079	Fig.3
12	QPSK	700.5	23025	3	15	0	2.678	Fig.4
12	QPSK	707.5	23095	3	15	0	2.677	Fig.5
12	QPSK	714.5	23165	3	15	0	2.681	Fig.6
12	QPSK	701.5	23035	5	25	0	4.460	Fig.7
12	QPSK	707.5	23095	5	25	0	4.457	Fig.8
12	QPSK	713.5	23155	5	25	0	4.452	Fig.9
12	QPSK	704	23060	10	50	0	8.910	Fig.10
12	QPSK	707.5	23095	10	50	0	8.928	Fig.11
12	QPSK	711	23130	10	50	0	8.912	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	1.077	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.078	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.078	Fig.15
12	16QAM	700.5	23025	3	15	0	2.669	Fig.16
12	16QAM	707.5	23095	3	15	0	2.680	Fig.17
12	16QAM	714.5	23165	3	15	0	2.677	Fig.18
12	16QAM	701.5	23035	5	25	0	4.450	Fig.19
12	16QAM	707.5	23095	5	25	0	4.462	Fig.20
12	16QAM	713.5	23155	5	25	0	4.454	Fig.21
12	16QAM	704	23060	10	50	0	8.902	Fig.22
12	16QAM	707.5	23095	10	50	0	8.904	Fig.23
12	16QAM	711	23130	10	50	0	8.911	Fig.24

Test Mode: QPSK

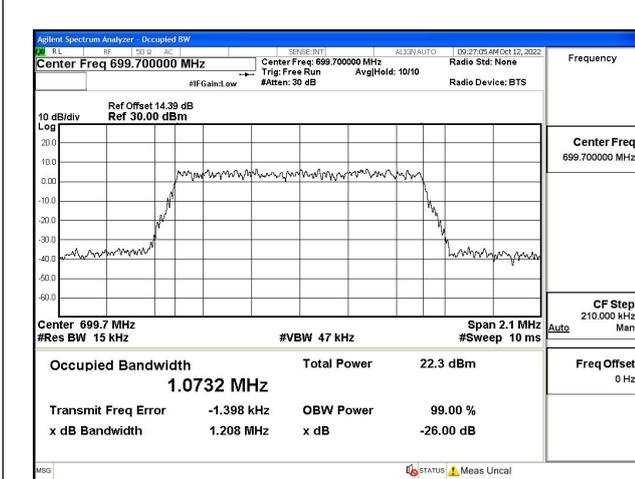


Fig.1

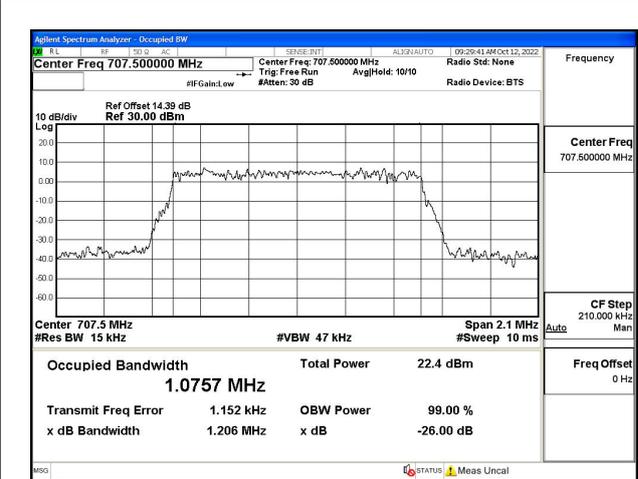


Fig.2

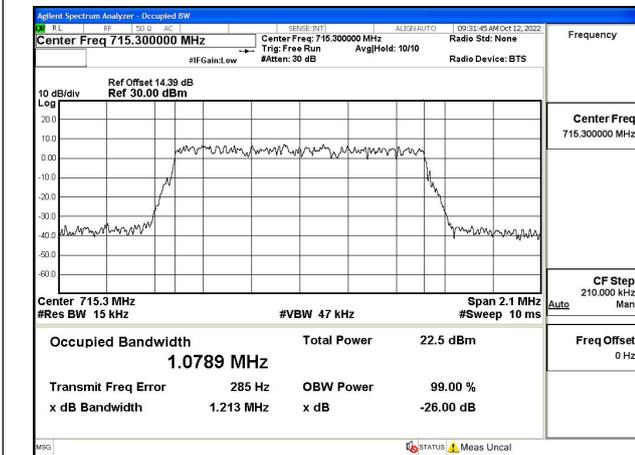


Fig.3

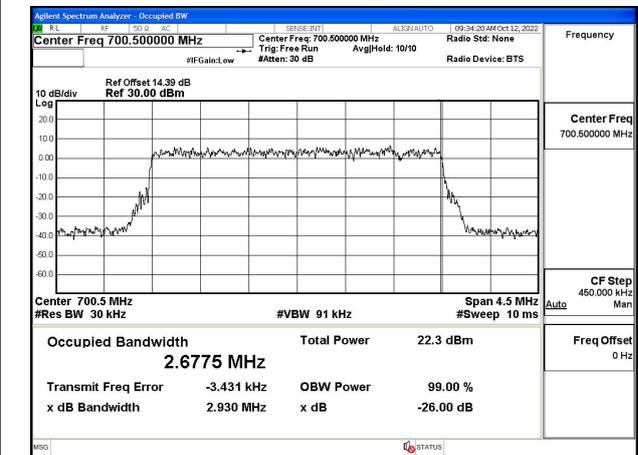


Fig.4

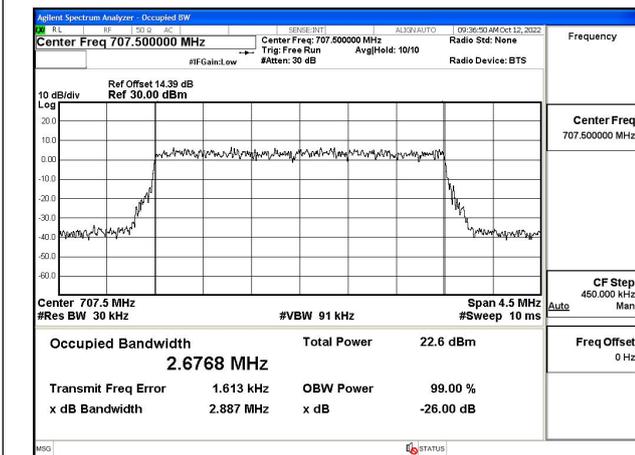


Fig.5

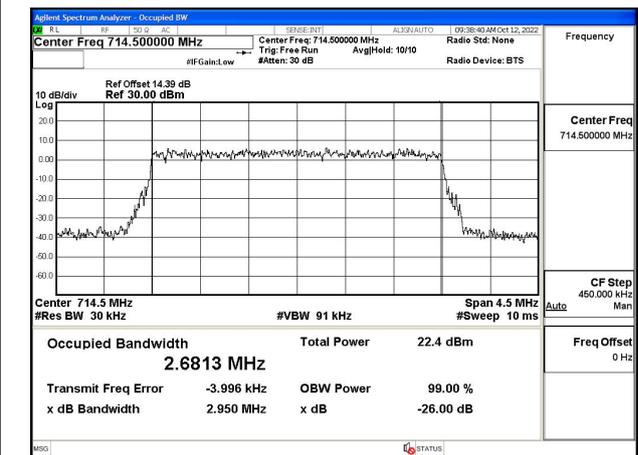


Fig.6

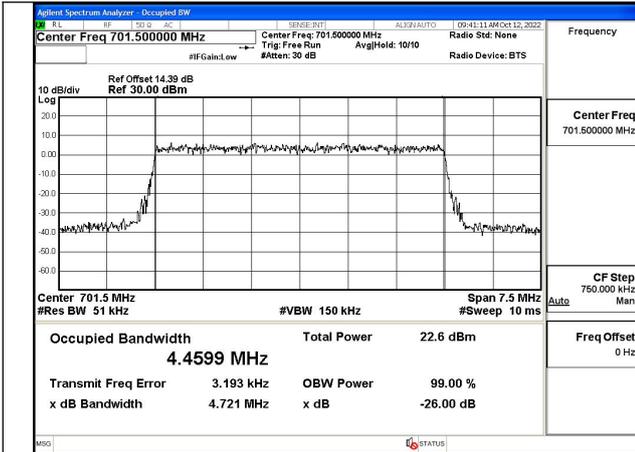


Fig.7

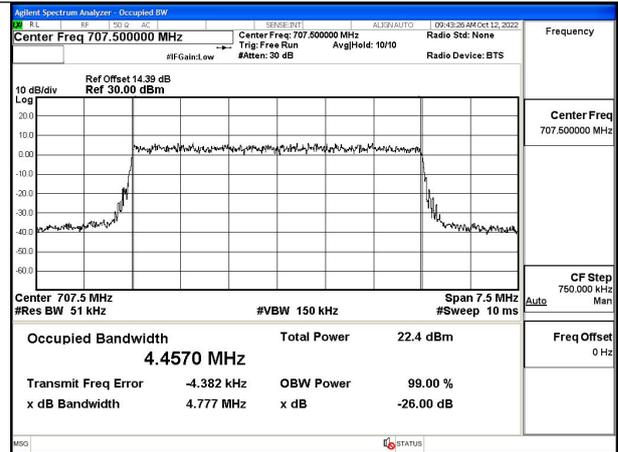


Fig.8

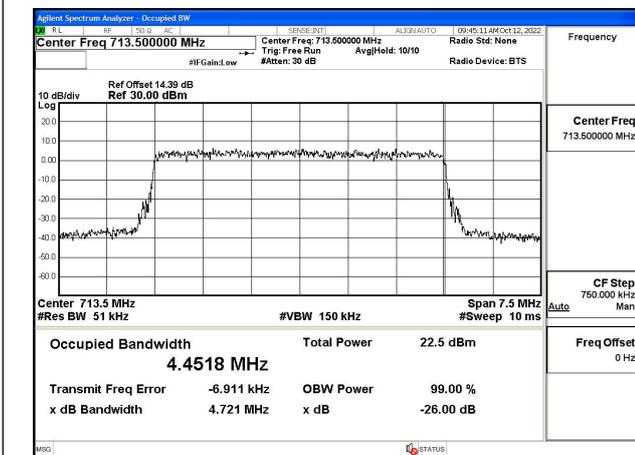


Fig.9

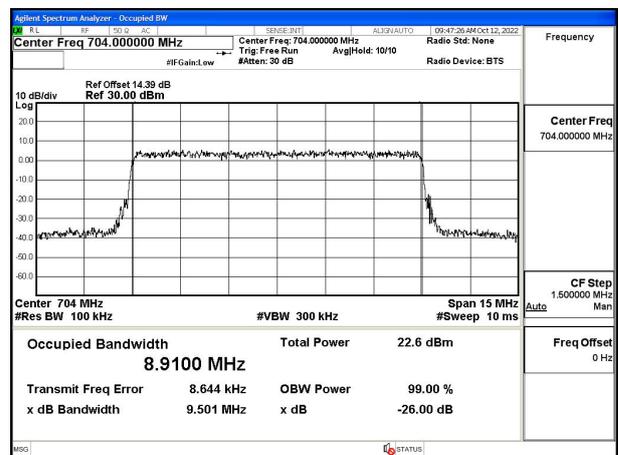


Fig.10

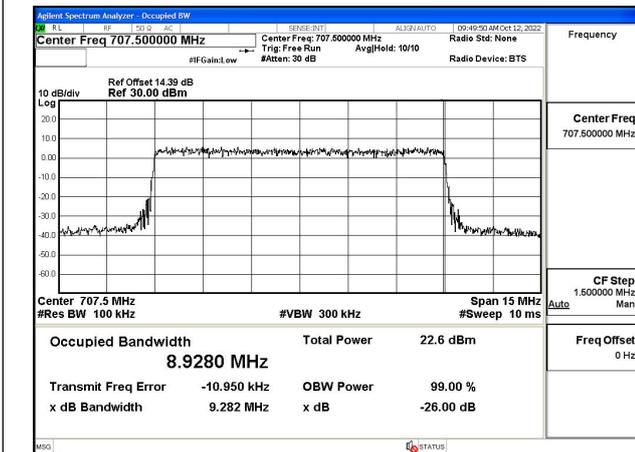


Fig.11

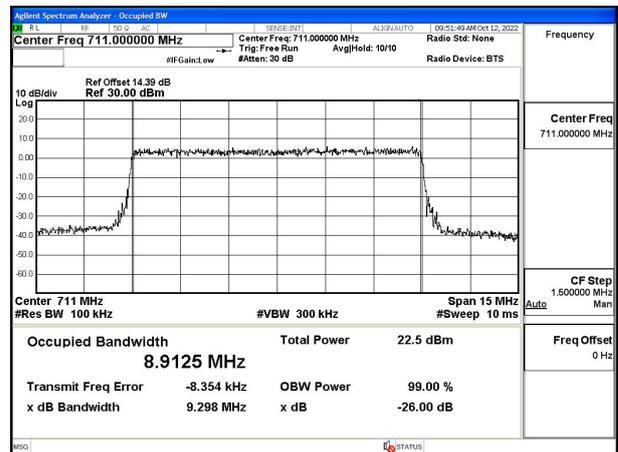


Fig.12

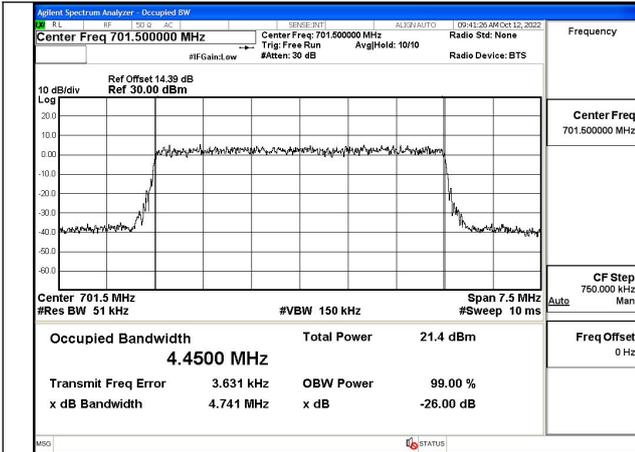


Fig.19

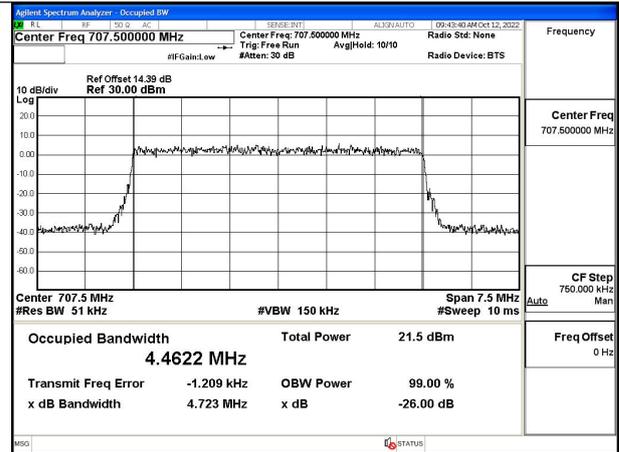


Fig.20

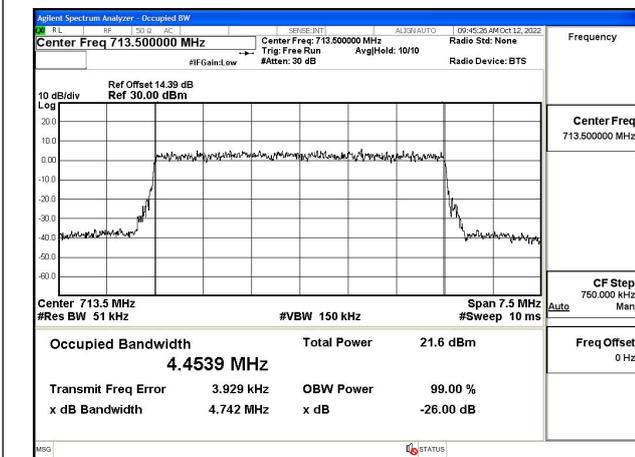


Fig.21

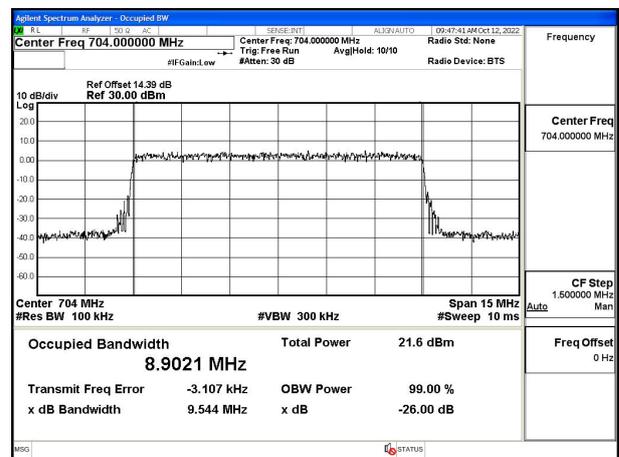


Fig.22

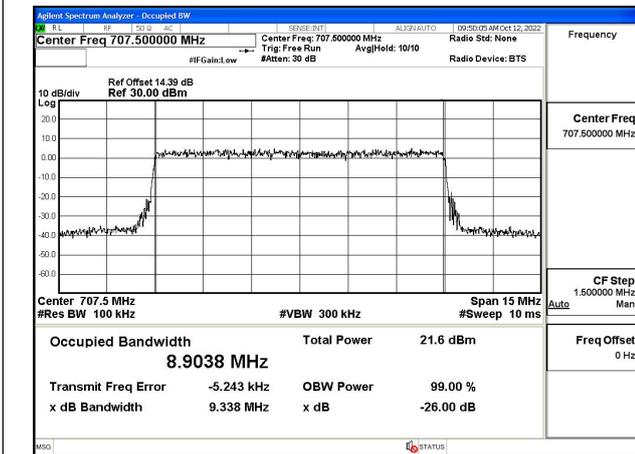


Fig.23

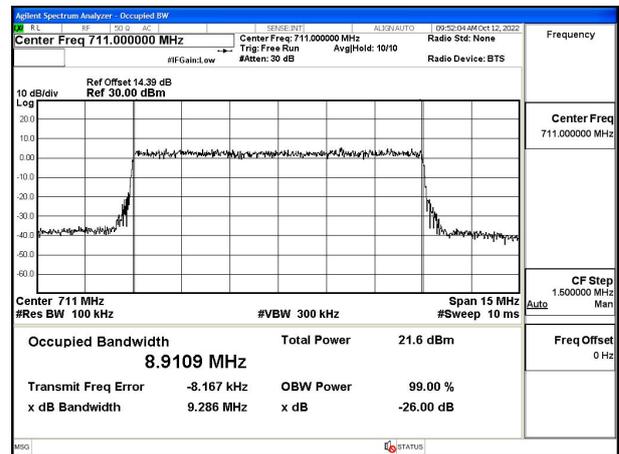


Fig.24

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	1.208	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.206	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.213	Fig.3
12	QPSK	700.5	23025	3	15	0	2.930	Fig.4
12	QPSK	707.5	23095	3	15	0	2.887	Fig.5
12	QPSK	714.5	23165	3	15	0	2.950	Fig.6
12	QPSK	701.5	23035	5	25	0	4.721	Fig.7
12	QPSK	707.5	23095	5	25	0	4.777	Fig.8
12	QPSK	713.5	23155	5	25	0	4.721	Fig.9
12	QPSK	704	23060	10	50	0	9.501	Fig.10
12	QPSK	707.5	23095	10	50	0	9.282	Fig.11
12	QPSK	711	23130	10	50	0	9.298	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	1.212	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.211	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.208	Fig.15
12	16QAM	700.5	23025	3	15	0	2.910	Fig.16
12	16QAM	707.5	23095	3	15	0	2.913	Fig.17
12	16QAM	714.5	23165	3	15	0	2.900	Fig.18
12	16QAM	701.5	23035	5	25	0	4.741	Fig.19
12	16QAM	707.5	23095	5	25	0	4.723	Fig.20
12	16QAM	713.5	23155	5	25	0	4.742	Fig.21
12	16QAM	704	23060	10	50	0	9.544	Fig.22
12	16QAM	707.5	23095	10	50	0	9.338	Fig.23
12	16QAM	711	23130	10	50	0	9.286	Fig.24

Test Mode: QPSK

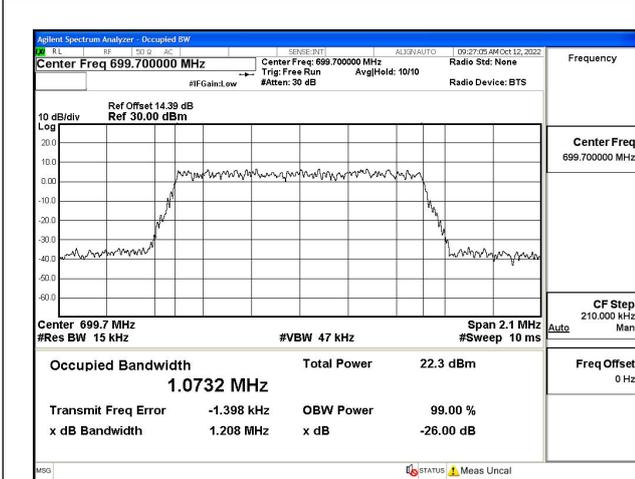


Fig.1

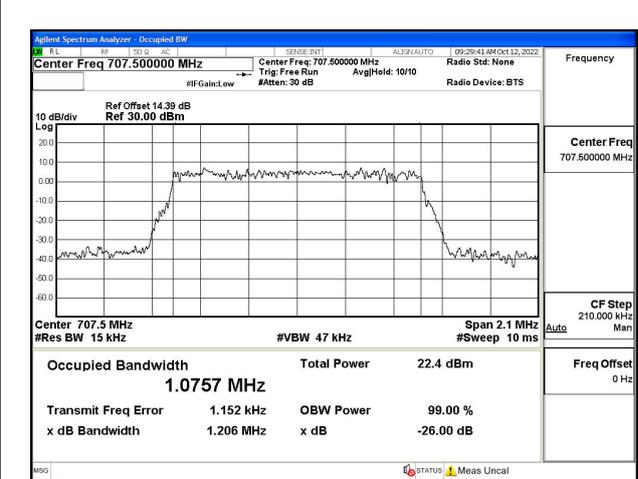


Fig.2

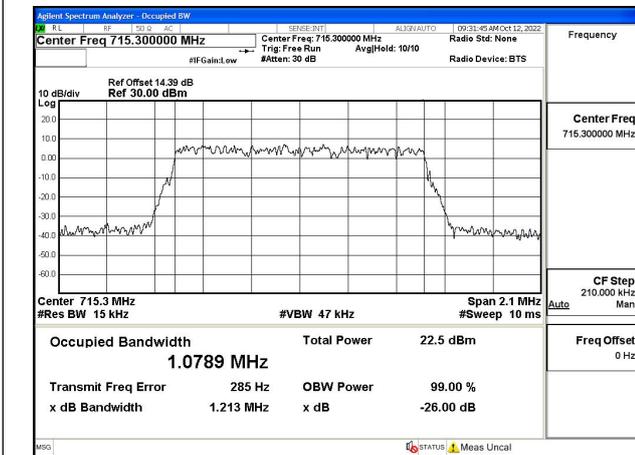


Fig.3

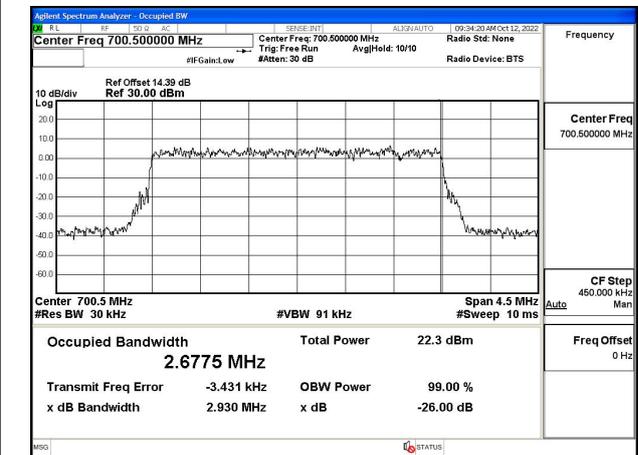


Fig.4

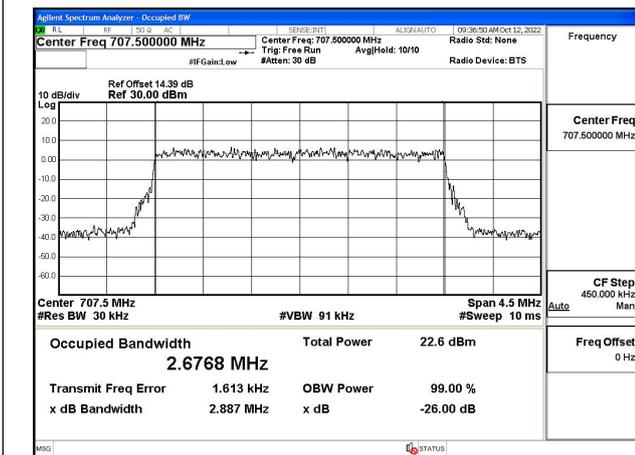


Fig.5

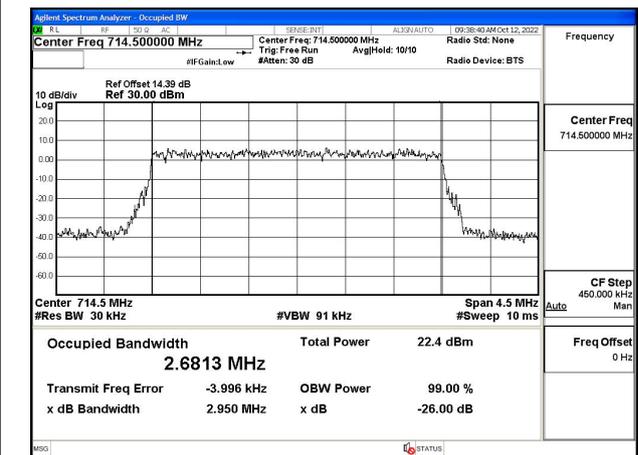


Fig.6

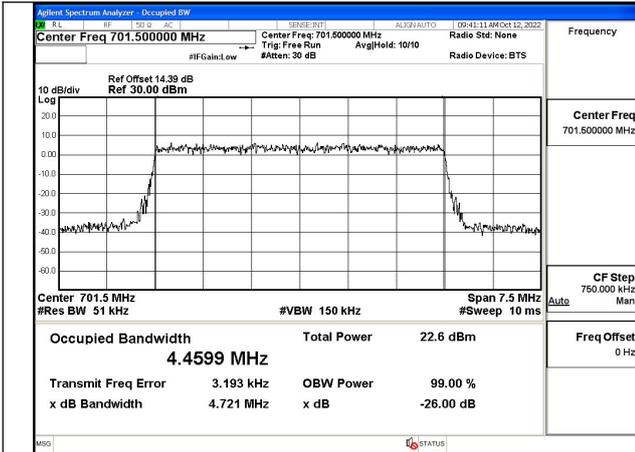


Fig.7

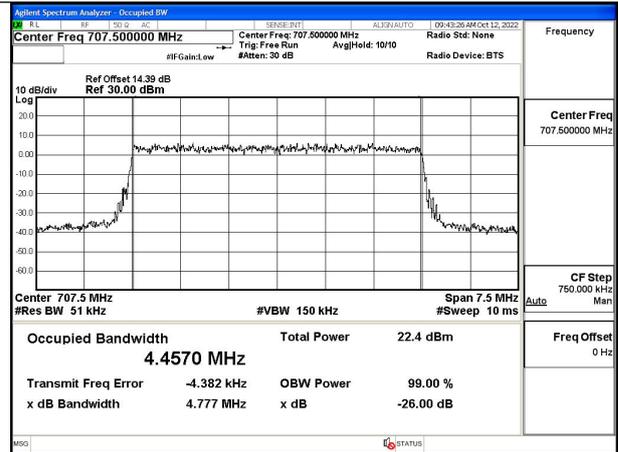


Fig.8

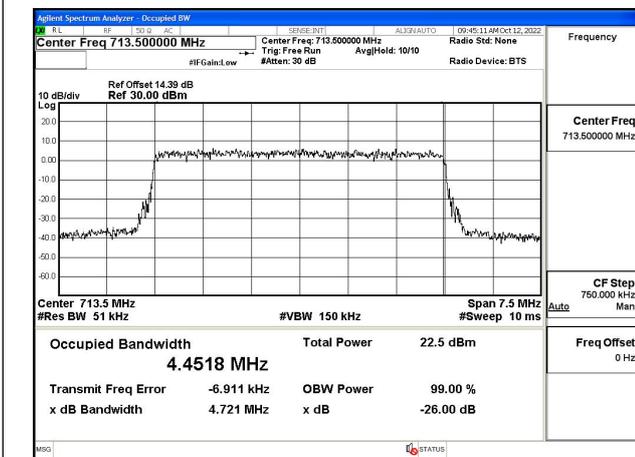


Fig.9

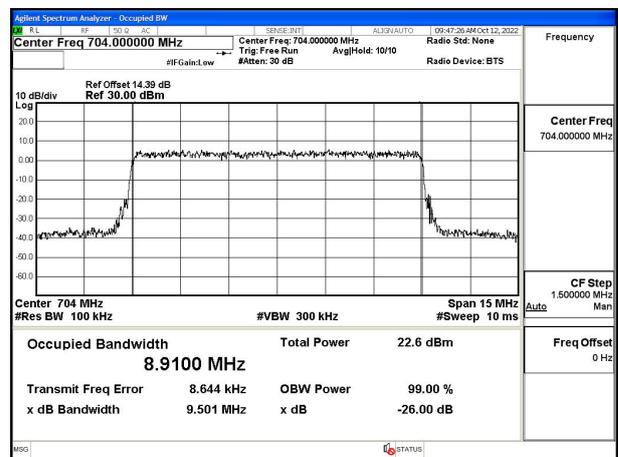


Fig.10

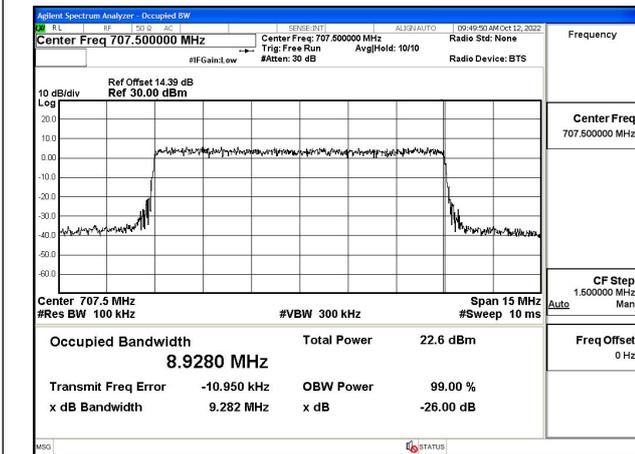


Fig.11

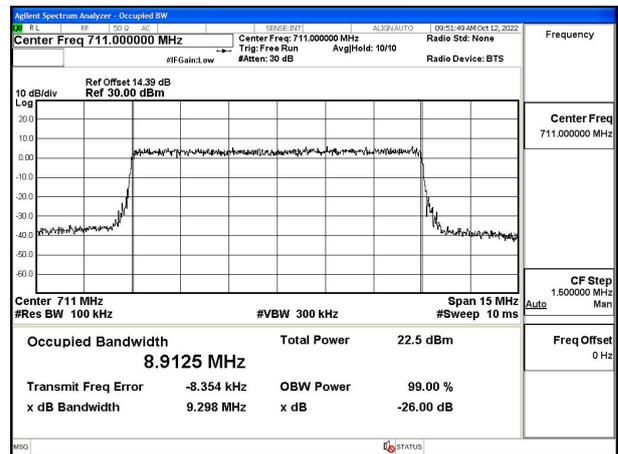


Fig.12

Test Mode: 16QAM

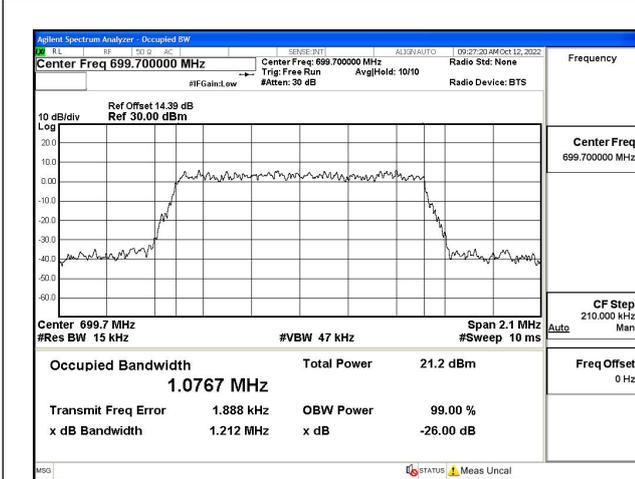


Fig.13

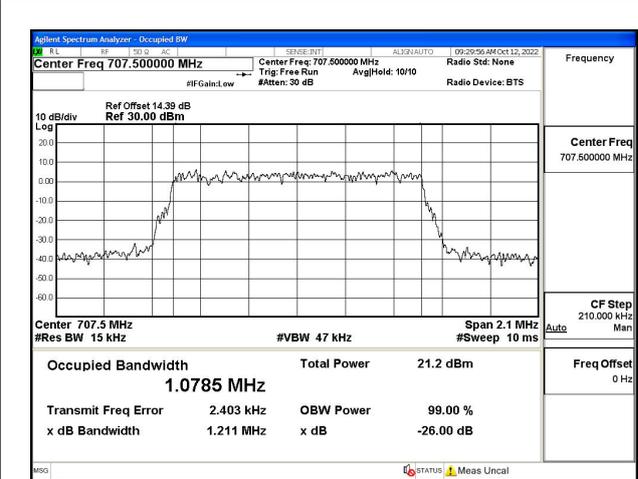


Fig.14

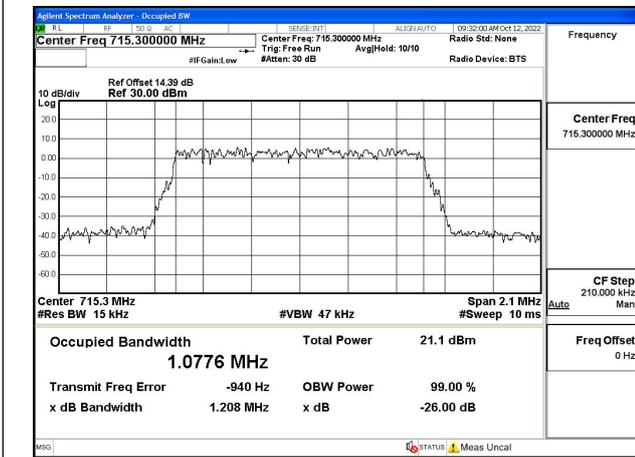


Fig.15

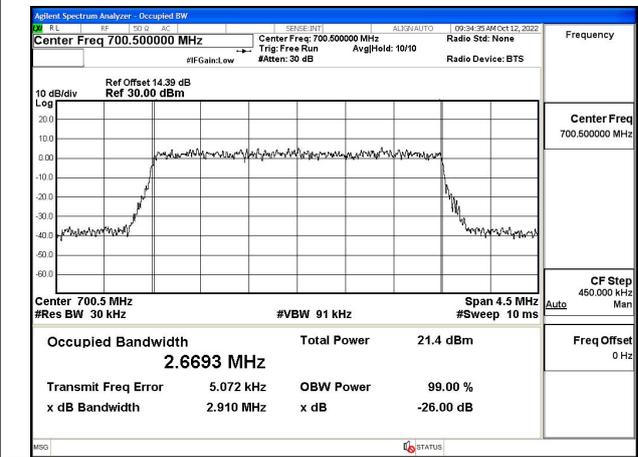


Fig.16

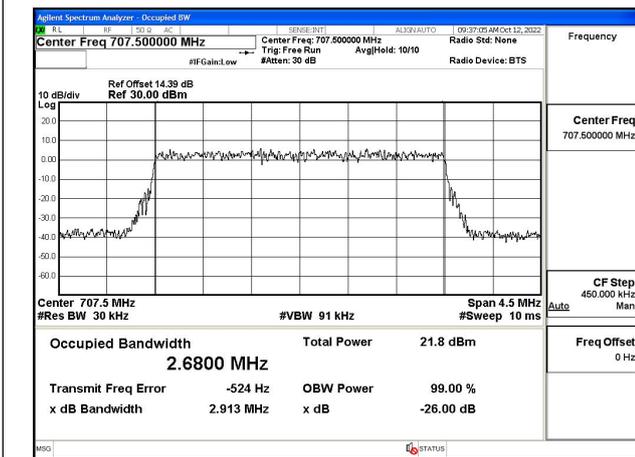


Fig.17

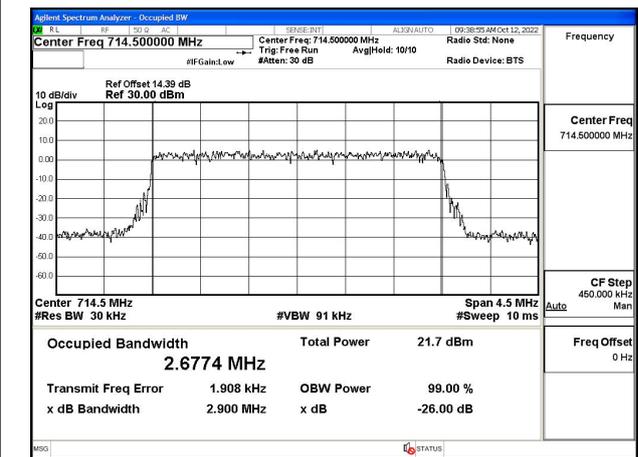


Fig.18