

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 13

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	779.5	23205	5	1	0	23.10
QPSK	779.5	23205	5	1	12	23.02
QPSK	779.5	23205	5	1	24	23.04
QPSK	779.5	23205	5	12	0	22.20
QPSK	779.5	23205	5	12	7	22.11
QPSK	779.5	23205	5	12	13	22.01
QPSK	779.5	23205	5	25	0	22.26
QPSK	782	23230	5	1	0	23.28
QPSK	782	23230	5	1	12	23.30
QPSK	782	23230	5	1	24	23.27
QPSK	782	23230	5	12	0	22.23
QPSK	782	23230	5	12	7	22.11
QPSK	782	23230	5	12	13	22.21
QPSK	782	23230	5	25	0	22.18
QPSK	784.5	23255	5	1	0	23.43
QPSK	784.5	23255	5	1	12	23.38
QPSK	784.5	23255	5	1	24	23.28
QPSK	784.5	23255	5	12	0	21.99
QPSK	784.5	23255	5	12	7	22.21
QPSK	784.5	23255	5	12	13	22.09
QPSK	784.5	23255	5	25	0	22.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	22.53
16QAM	779.5	23205	5	1	12	22.92
16QAM	779.5	23205	5	1	24	22.55
16QAM	779.5	23205	5	12	0	21.10
16QAM	779.5	23205	5	12	7	21.36
16QAM	779.5	23205	5	12	13	21.15
16QAM	779.5	23205	5	25	0	21.23
16QAM	782	23230	5	1	0	22.92
16QAM	782	23230	5	1	12	22.41
16QAM	782	23230	5	1	24	22.26
16QAM	782	23230	5	12	0	21.11
16QAM	782	23230	5	12	7	21.01
16QAM	782	23230	5	12	13	21.23
16QAM	782	23230	5	25	0	21.19
16QAM	784.5	23255	5	1	0	22.22
16QAM	784.5	23255	5	1	12	22.41
16QAM	784.5	23255	5	1	24	22.80
16QAM	784.5	23255	5	12	0	21.25
16QAM	784.5	23255	5	12	7	21.17
16QAM	784.5	23255	5	12	13	21.05
16QAM	784.5	23255	5	25	0	21.33
64QAM	779.5	23205	5	1	0	20.95
64QAM	779.5	23205	5	1	12	21.36
64QAM	779.5	23205	5	1	24	21.15
64QAM	779.5	23205	5	12	0	20.64
64QAM	779.5	23205	5	12	7	20.25
64QAM	779.5	23205	5	12	13	20.07
64QAM	779.5	23205	5	25	0	20.03
64QAM	782	23230	5	1	0	21.42
64QAM	782	23230	5	1	12	21.41
64QAM	782	23230	5	1	24	21.13
64QAM	782	23230	5	12	0	20.08
64QAM	782	23230	5	12	7	20.24
64QAM	782	23230	5	12	13	20.31
64QAM	782	23230	5	25	0	20.03
64QAM	784.5	23255	5	1	0	20.94
64QAM	784.5	23255	5	1	12	21.45
64QAM	784.5	23255	5	1	24	21.14
64QAM	784.5	23255	5	12	0	20.22
64QAM	784.5	23255	5	12	7	20.26
64QAM	784.5	23255	5	12	13	20.08
64QAM	784.5	23255	5	25	0	20.17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	23.32
QPSK	782	23230	10	1	25	23.45
QPSK	782	23230	10	1	49	23.30
QPSK	782	23230	10	25	0	22.20
QPSK	782	23230	10	25	12	22.20
QPSK	782	23230	10	25	25	22.09
QPSK	782	23230	10	50	0	22.08
QPSK	782	23230	10	1	0	23.32
QPSK	782	23230	10	1	25	23.47
QPSK	782	23230	10	1	49	23.36
QPSK	782	23230	10	25	0	22.19
QPSK	782	23230	10	25	12	22.18
QPSK	782	23230	10	25	25	22.18
QPSK	782	23230	10	50	0	22.06
QPSK	782	23230	10	1	0	23.44
QPSK	782	23230	10	1	25	23.38
QPSK	782	23230	10	1	49	23.30
QPSK	782	23230	10	25	0	22.32
QPSK	782	23230	10	25	12	21.99
QPSK	782	23230	10	25	25	22.19
QPSK	782	23230	10	50	0	22.08

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	22.35
16QAM	782	23230	10	1	25	22.46
16QAM	782	23230	10	1	49	22.65
16QAM	782	23230	10	25	0	21.33
16QAM	782	23230	10	25	12	21.36
16QAM	782	23230	10	25	25	21.08
16QAM	782	23230	10	50	0	21.35
16QAM	782	23230	10	1	0	22.26
16QAM	782	23230	10	1	25	22.30
16QAM	782	23230	10	1	49	22.29
16QAM	782	23230	10	25	0	21.30
16QAM	782	23230	10	25	12	21.32
16QAM	782	23230	10	25	25	21.34
16QAM	782	23230	10	50	0	21.17
16QAM	782	23230	10	1	0	22.45
16QAM	782	23230	10	1	25	22.22
16QAM	782	23230	10	1	49	22.65
16QAM	782	23230	10	25	0	21.26
16QAM	782	23230	10	25	12	21.29
16QAM	782	23230	10	25	25	21.08
16QAM	782	23230	10	50	0	21.21
64QAM	782	23230	10	1	0	21.30
64QAM	782	23230	10	1	25	21.39
64QAM	782	23230	10	1	49	21.11
64QAM	782	23230	10	25	0	20.07
64QAM	782	23230	10	25	12	20.20
64QAM	782	23230	10	25	25	20.19
64QAM	782	23230	10	50	0	20.47
64QAM	782	23230	10	1	0	21.88
64QAM	782	23230	10	1	25	21.81
64QAM	782	23230	10	1	49	21.76
64QAM	782	23230	10	25	0	20.35
64QAM	782	23230	10	25	12	20.38
64QAM	782	23230	10	25	25	20.55
64QAM	782	23230	10	50	0	20.54
64QAM	782	23230	10	1	0	20.99
64QAM	782	23230	10	1	25	21.14
64QAM	782	23230	10	1	49	21.21
64QAM	782	23230	10	25	0	20.18
64QAM	782	23230	10	25	12	20.24
64QAM	782	23230	10	25	25	20.14
64QAM	782	23230	10	50	0	20.18

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	QPSK	779.5	23205	5	25	0	4.450	Fig.1
13	QPSK	782	23230	5	25	0	4.460	Fig.2
13	QPSK	784.5	23255	5	25	0	4.470	Fig.3
13	QPSK	782	23230	10	50	0	8.880	Fig.4
13	QPSK	782	23230	10	50	0	8.910	Fig.5
13	QPSK	782	23230	10	50	0	8.910	Fig.6

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	16QAM	779.5	23205	5	25	0	4.440	Fig.7
13	16QAM	782	23230	5	25	0	4.450	Fig.8
13	16QAM	784.5	23255	5	25	0	4.450	Fig.9
13	16QAM	782	23230	10	50	0	8.910	Fig.10
13	16QAM	782	23230	10	50	0	8.920	Fig.11
13	16QAM	782	23230	10	50	0	8.920	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	64QAM	779.5	23205	5	25	0	4.440	Fig.13
13	64QAM	782	23230	5	25	0	4.450	Fig.14
13	64QAM	784.5	23255	5	25	0	4.460	Fig.15
13	64QAM	782	23230	10	50	0	8.920	Fig.16
13	64QAM	782	23230	10	50	0	8.900	Fig.17
13	64QAM	782	23230	10	50	0	8.920	Fig.18

Test Mode: QPSK

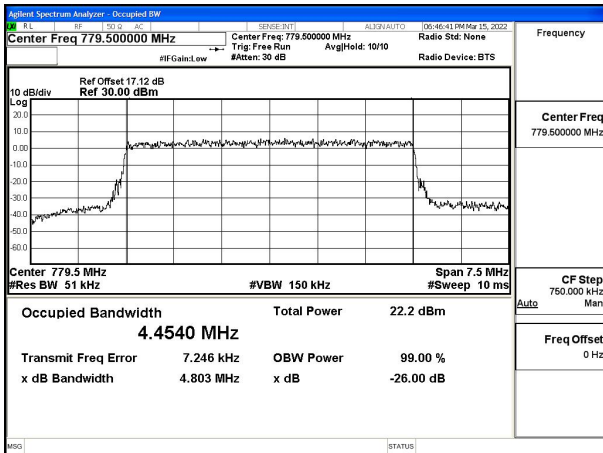


Fig.1

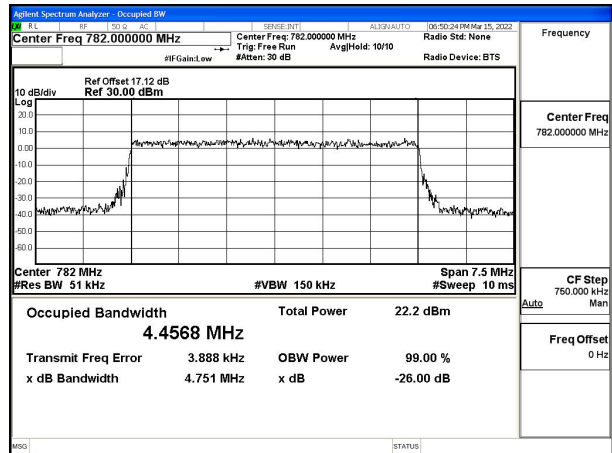


Fig.2

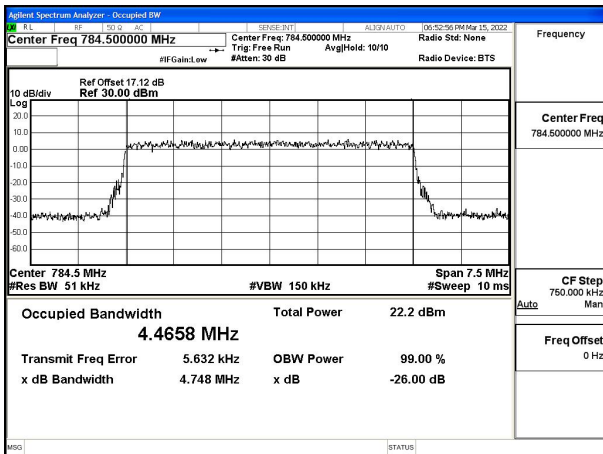


Fig.3

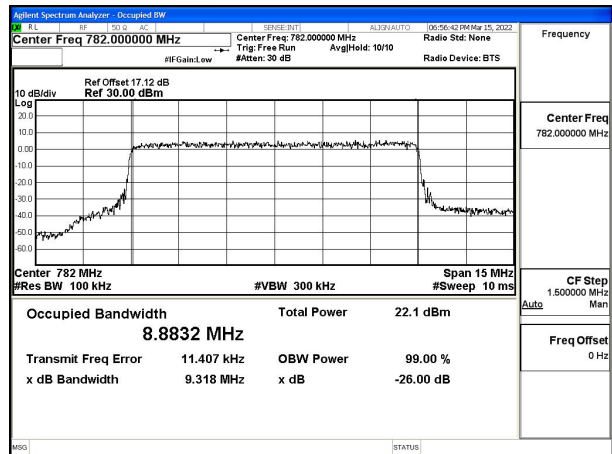


Fig.4

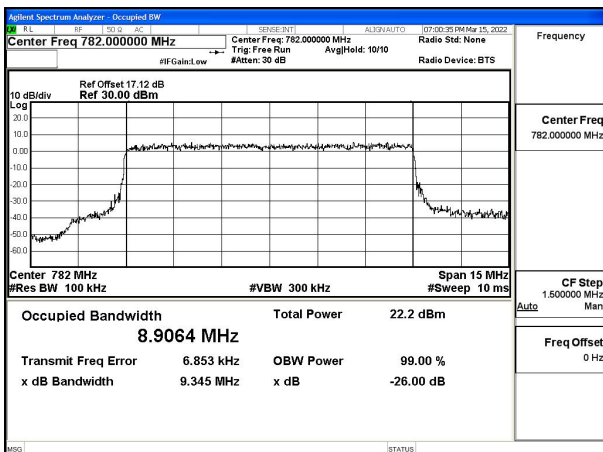


Fig.5

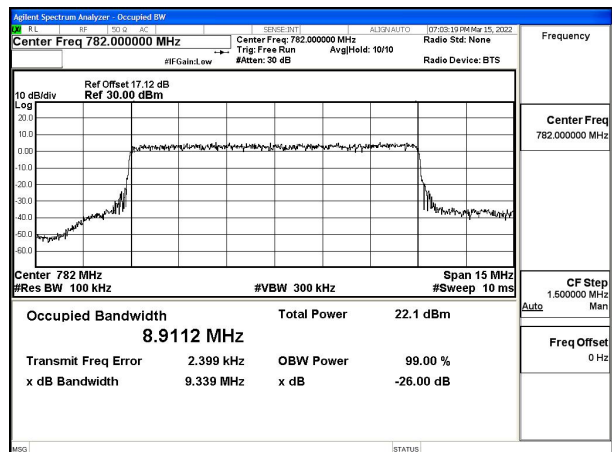


Fig.6

Test Mode: 16QAM

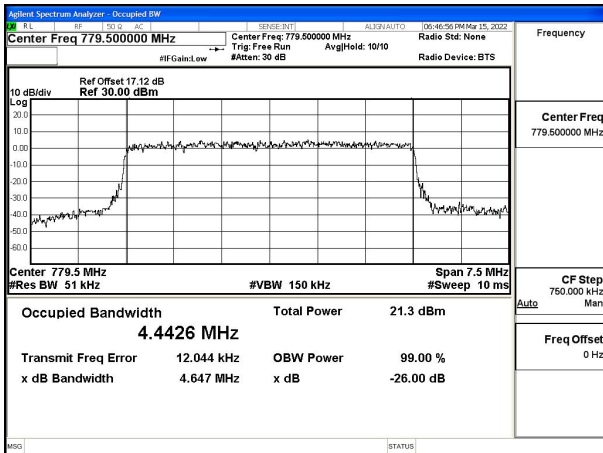


Fig.7

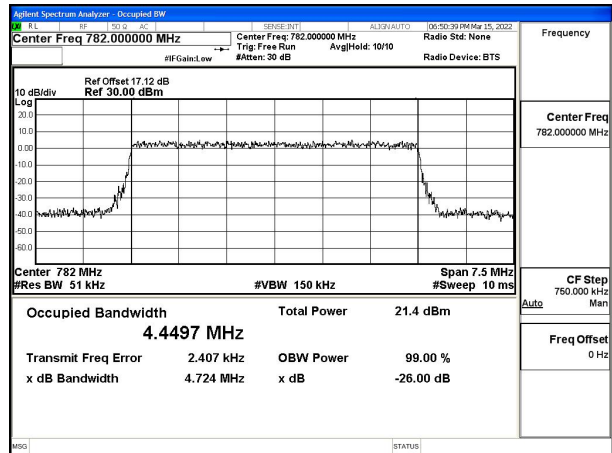


Fig.8

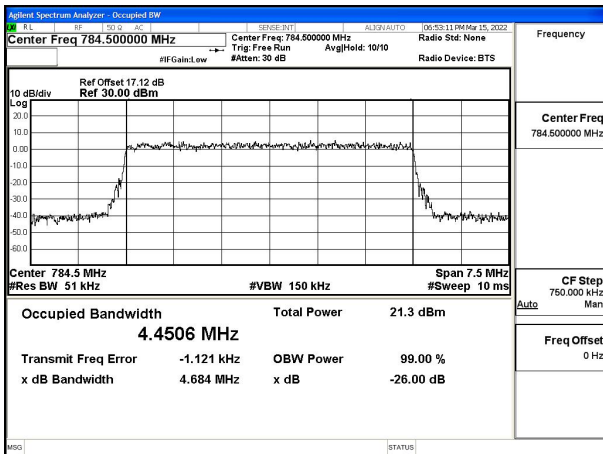


Fig.9

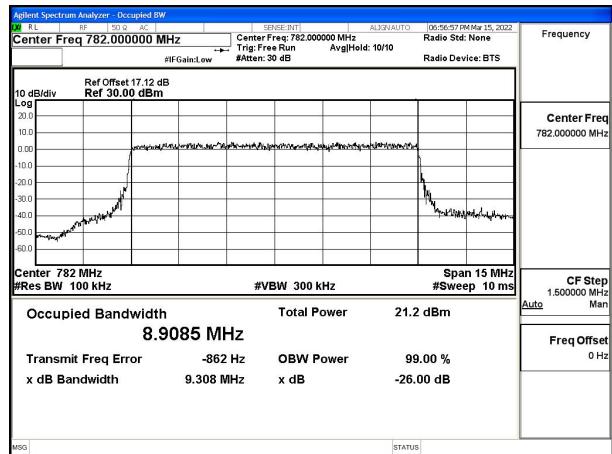


Fig.10

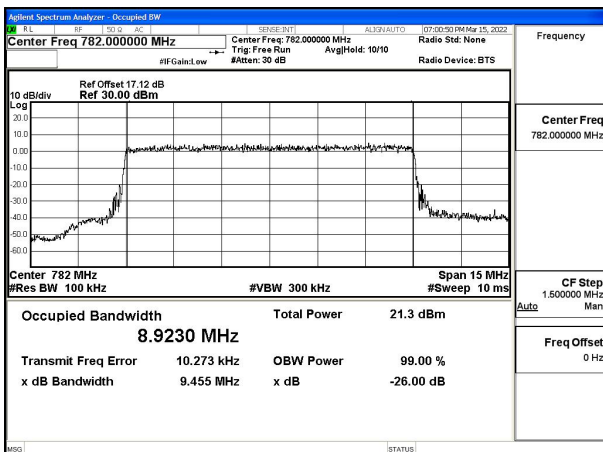


Fig.11

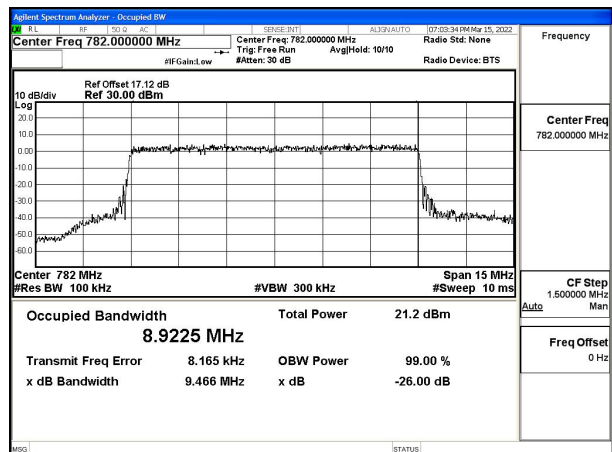


Fig.12

Test Mode: 64QAM

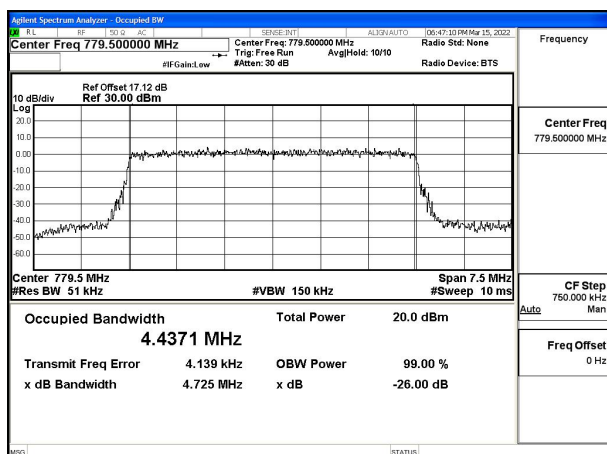


Fig.13

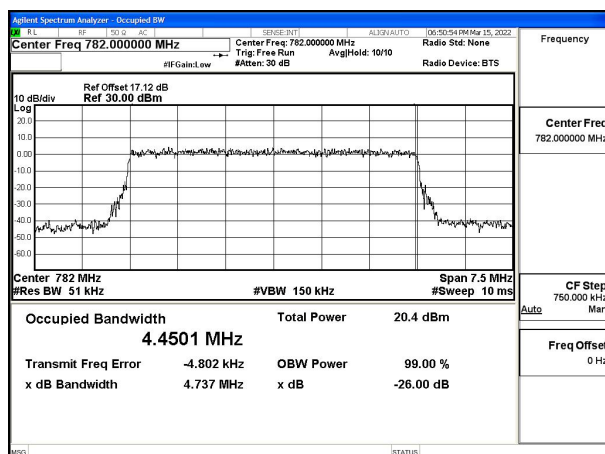


Fig.14

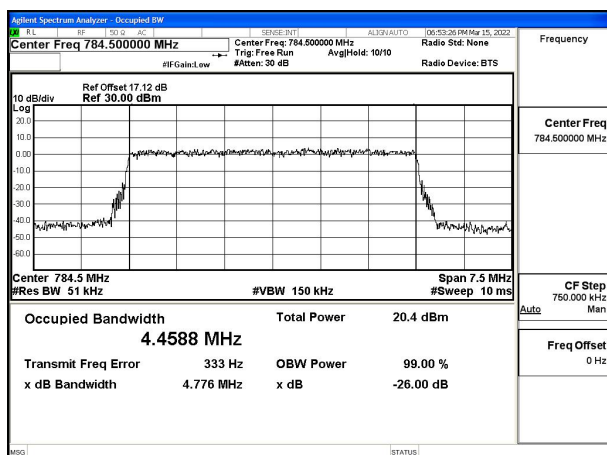


Fig.15

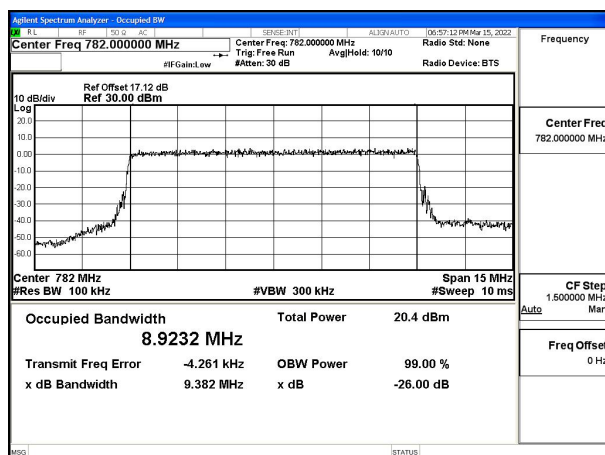


Fig.16

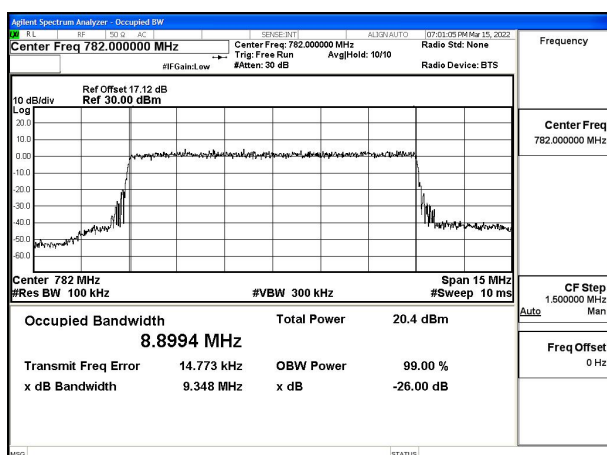


Fig.17

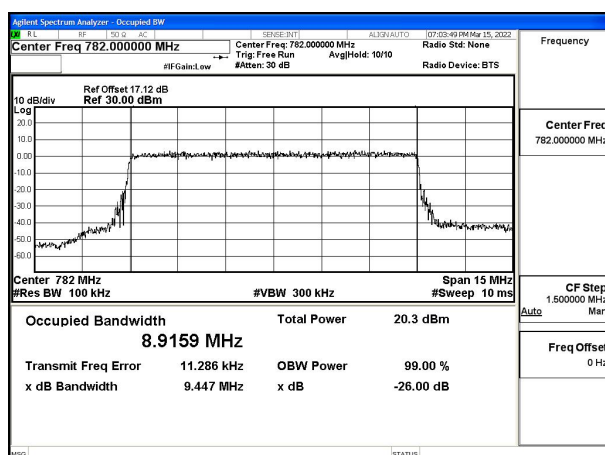


Fig.18

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	QPSK	779.5	23205	5	25	0	4.800	Fig.1
13	QPSK	782	23230	5	25	0	4.750	Fig.2
13	QPSK	784.5	23255	5	25	0	4.750	Fig.3
13	QPSK	782	23230	10	50	0	9.320	Fig.4
13	QPSK	782	23230	10	50	0	9.350	Fig.5
13	QPSK	782	23230	10	50	0	9.340	Fig.6

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	16QAM	779.5	23205	5	25	0	4.650	Fig.7
13	16QAM	782	23230	5	25	0	4.720	Fig.8
13	16QAM	784.5	23255	5	25	0	4.680	Fig.9
13	16QAM	782	23230	10	50	0	9.310	Fig.10
13	16QAM	782	23230	10	50	0	9.460	Fig.11
13	16QAM	782	23230	10	50	0	9.470	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	64QAM	779.5	23205	5	25	0	4.720	Fig.13
13	64QAM	782	23230	5	25	0	4.740	Fig.14
13	64QAM	784.5	23255	5	25	0	4.780	Fig.15
13	64QAM	782	23230	10	50	0	9.380	Fig.16
13	64QAM	782	23230	10	50	0	9.350	Fig.17
13	64QAM	782	23230	10	50	0	9.450	Fig.18

Test Mode: QPSK

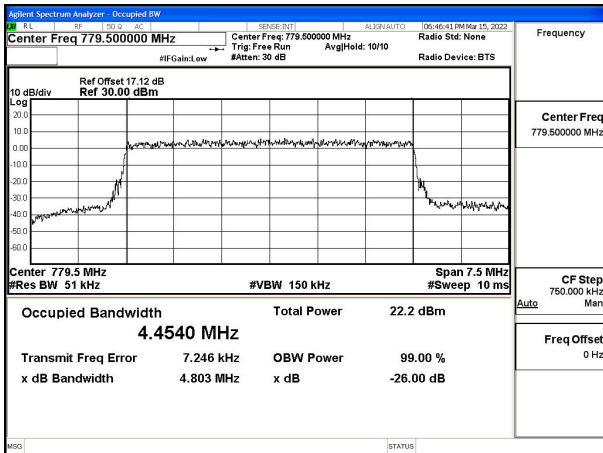


Fig.1

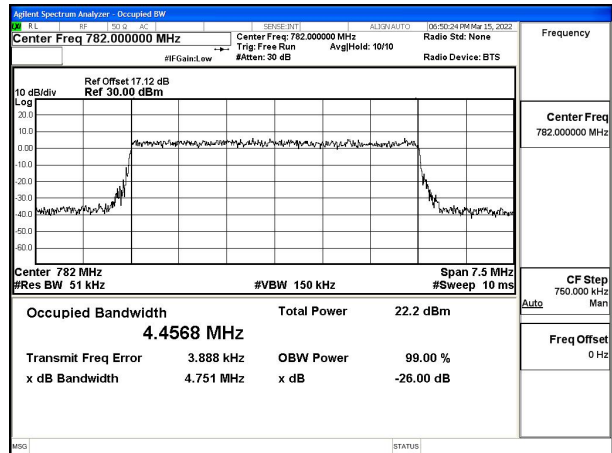


Fig.2

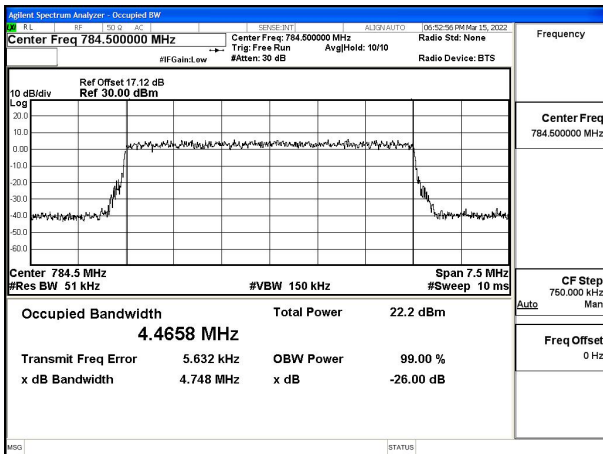


Fig.3

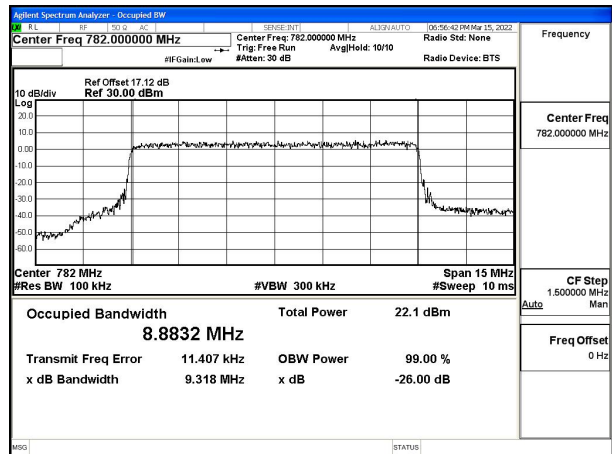


Fig.4

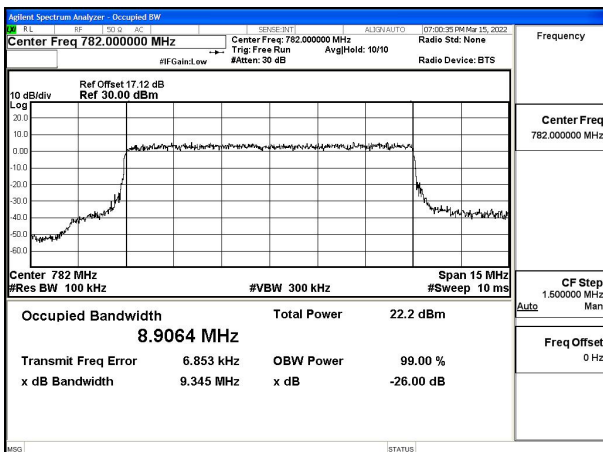


Fig.5

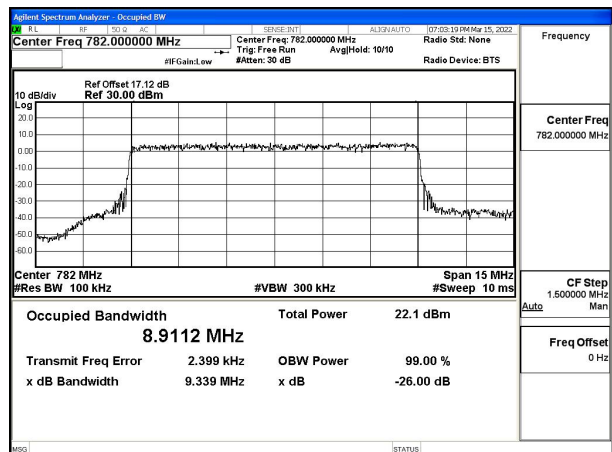


Fig.6

Test Mode: 16QAM

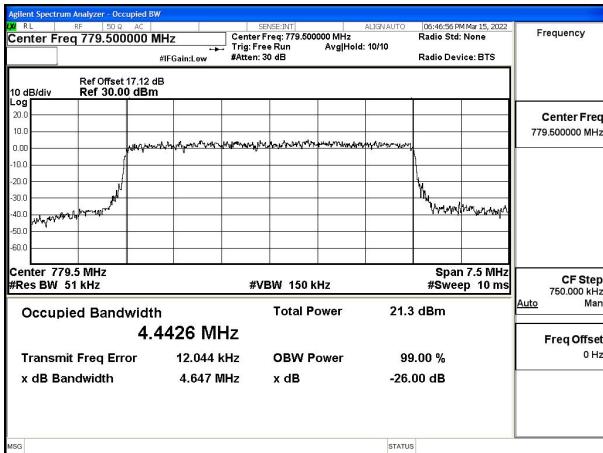


Fig.7

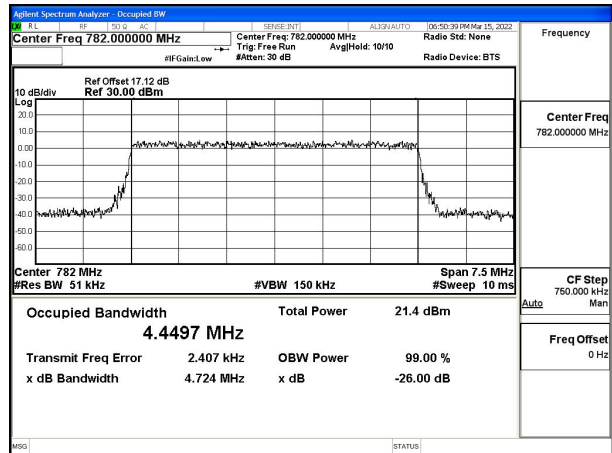


Fig.8

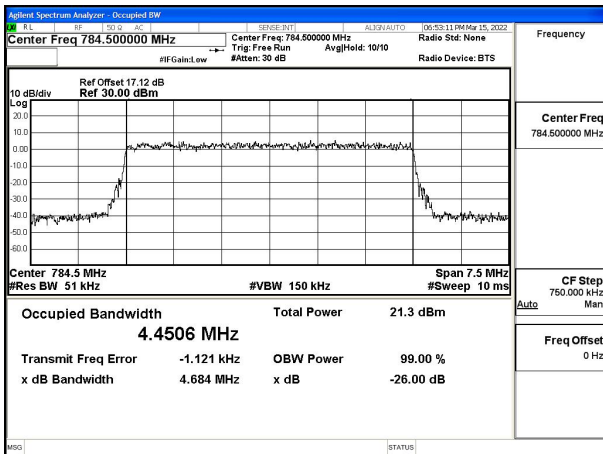


Fig.9

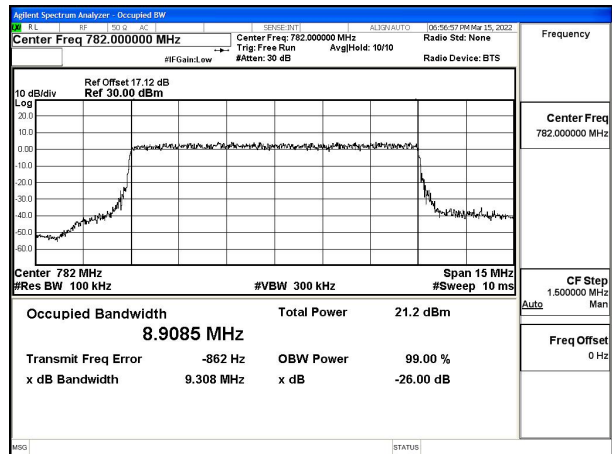


Fig.10

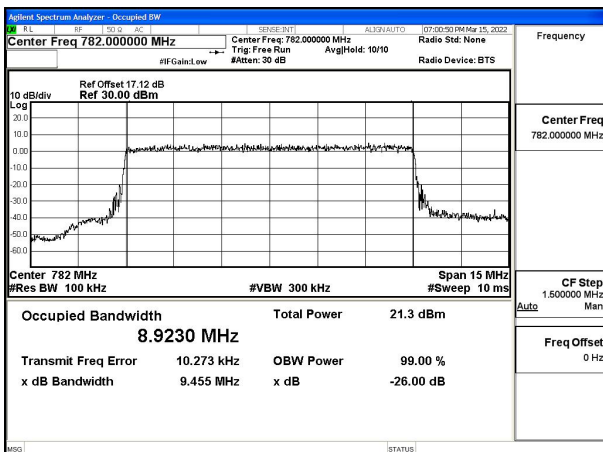


Fig.11

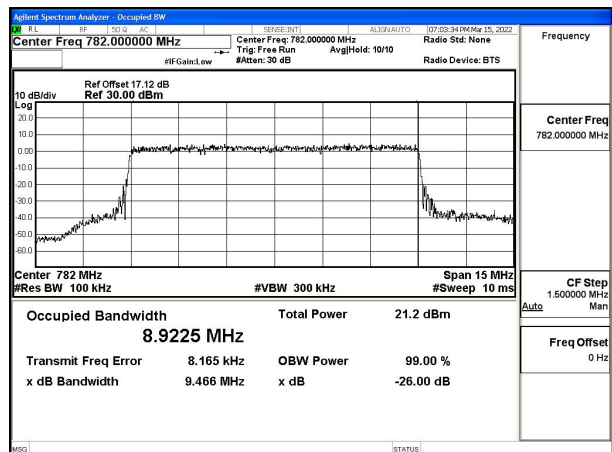


Fig.12

Test Mode: 64QAM

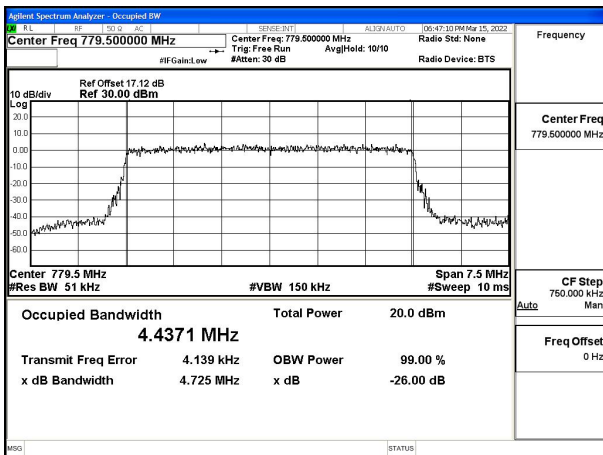


Fig.13

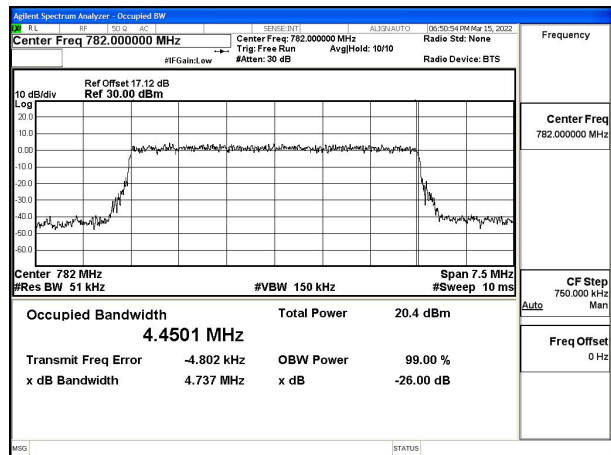


Fig.14

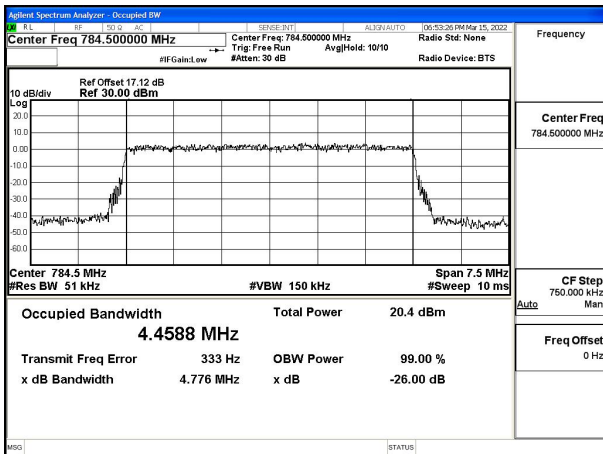


Fig.15

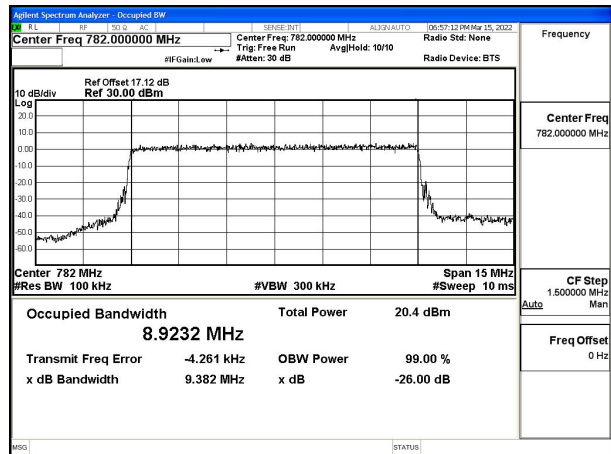


Fig.16

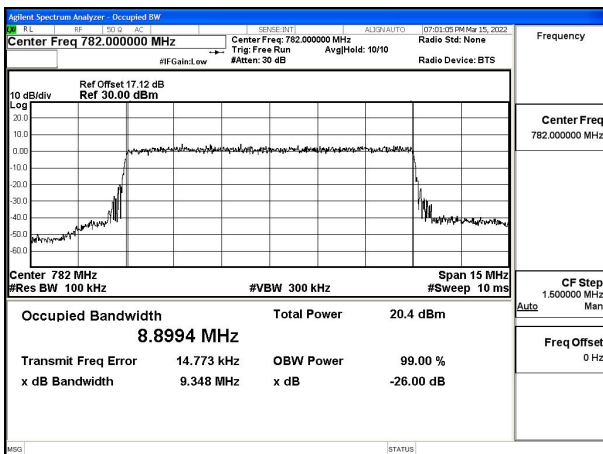


Fig.17

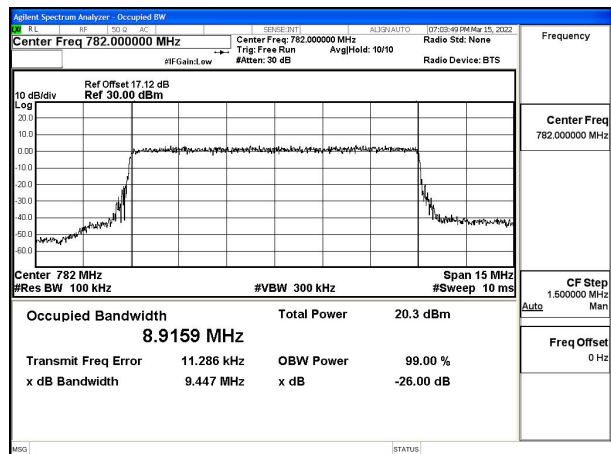


Fig.18

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
13	779.5	23205	5	1	24	Fig.1	Fig.2	Fig.3
13	779.5	23205	5	25	0	Fig.4	Fig.5	Fig.6
13	782	23230	5	1	24	Fig.7	Fig.8	Fig.9
13	782	23230	5	25	0	Fig.10	Fig.11	Fig.12
13	784.5	23255	5	1	24	Fig.13	Fig.14	Fig.15
13	784.5	23255	5	25	0	Fig.16	Fig.17	Fig.18
13	782	23230	10	1	49	Fig.19	Fig.20	Fig.21
13	782	23230	10	50	0	Fig.22	Fig.23	Fig.24
13	782	23230	10	1	49	Fig.25	Fig.26	Fig.27
13	782	23230	10	50	0	Fig.28	Fig.29	Fig.30
13	782	23230	10	1	49	Fig.31	Fig.32	Fig.33
13	782	23230	10	50	0	Fig.34	Fig.35	Fig.36

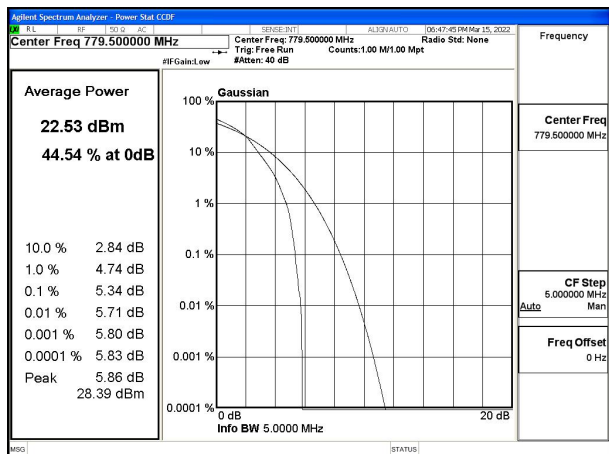


Fig.1

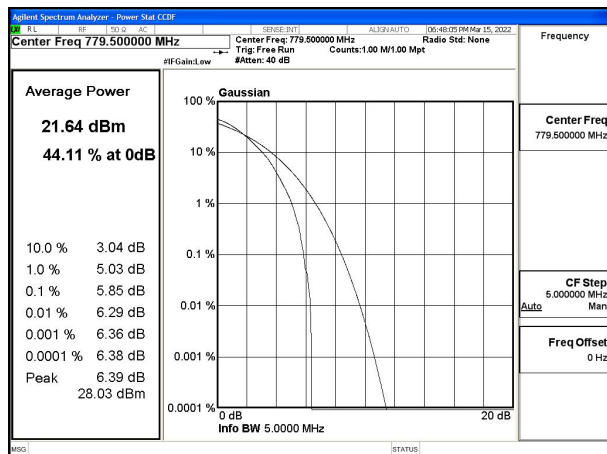


Fig.2

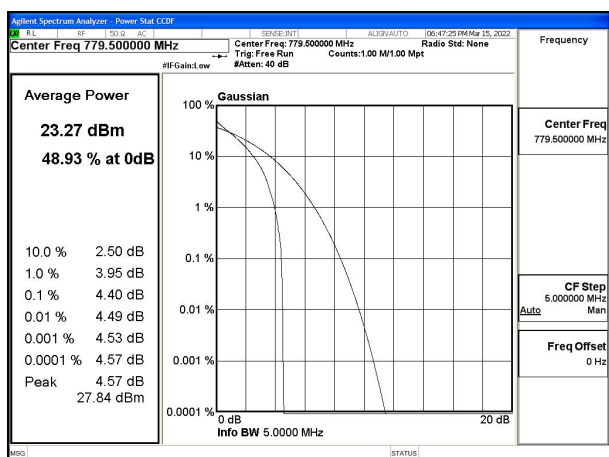


Fig.3

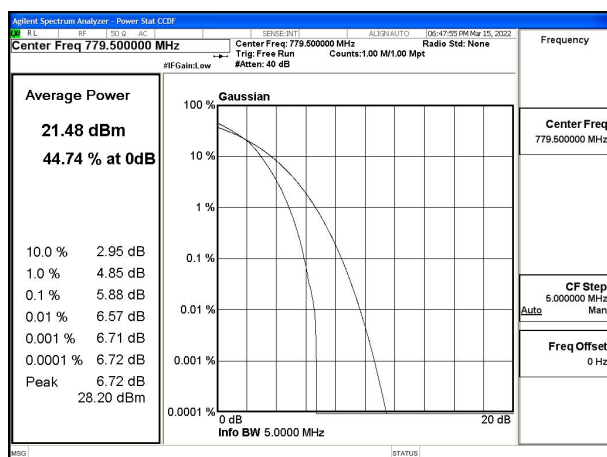


Fig.4

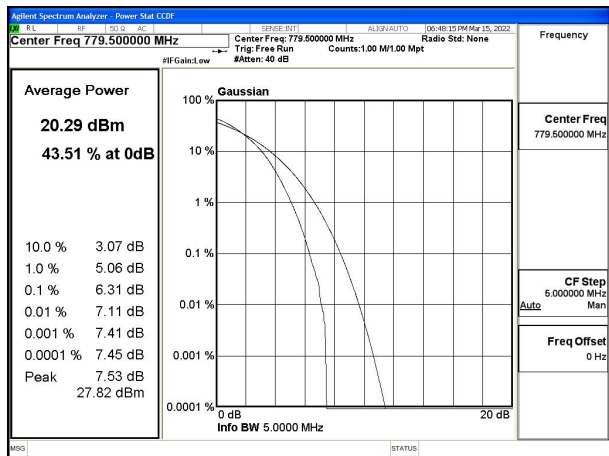


Fig.5

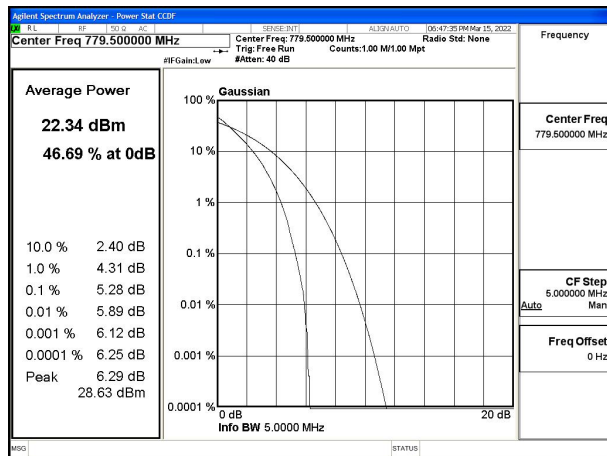


Fig.6