

**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	25.81
QPSK	779.5	23205	5	1	12	25.76
QPSK	779.5	23205	5	1	24	25.93
QPSK	779.5	23205	5	12	0	24.74
QPSK	779.5	23205	5	12	7	24.82
QPSK	779.5	23205	5	12	13	24.83
QPSK	779.5	23205	5	25	0	24.85
QPSK	782	23230	5	1	0	26.00
QPSK	782	23230	5	1	12	26.16
QPSK	782	23230	5	1	24	26.03
QPSK	782	23230	5	12	0	24.84
QPSK	782	23230	5	12	7	25.01
QPSK	782	23230	5	12	13	24.83
QPSK	782	23230	5	25	0	25.00
QPSK	784.5	23255	5	1	0	26.14
QPSK	784.5	23255	5	1	12	25.99
QPSK	784.5	23255	5	1	24	26.08
QPSK	784.5	23255	5	12	0	24.77
QPSK	784.5	23255	5	12	7	24.78
QPSK	784.5	23255	5	12	13	24.66
QPSK	784.5	23255	5	25	0	24.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	25.11
16QAM	779.5	23205	5	1	12	24.69
16QAM	779.5	23205	5	1	24	24.71
16QAM	779.5	23205	5	12	0	23.86
16QAM	779.5	23205	5	12	7	23.89
16QAM	779.5	23205	5	12	13	23.93
16QAM	779.5	23205	5	25	0	24.15
16QAM	782	23230	5	1	0	24.65
16QAM	782	23230	5	1	12	24.72
16QAM	782	23230	5	1	24	25.00
16QAM	782	23230	5	12	0	23.74
16QAM	782	23230	5	12	7	23.79
16QAM	782	23230	5	12	13	23.82
16QAM	782	23230	5	25	0	24.02
16QAM	784.5	23255	5	1	0	24.80
16QAM	784.5	23255	5	1	12	24.75
16QAM	784.5	23255	5	1	24	24.57
16QAM	784.5	23255	5	12	0	23.94
16QAM	784.5	23255	5	12	7	23.80
16QAM	784.5	23255	5	12	13	23.90
16QAM	784.5	23255	5	25	0	23.95
64QAM	779.5	23205	5	1	0	24.49
64QAM	779.5	23205	5	1	12	24.53
64QAM	779.5	23205	5	1	24	24.25
64QAM	779.5	23205	5	12	0	22.69
64QAM	779.5	23205	5	12	7	22.35
64QAM	779.5	23205	5	12	13	22.50
64QAM	779.5	23205	5	25	0	22.37
64QAM	782	23230	5	1	0	24.46
64QAM	782	23230	5	1	12	23.99
64QAM	782	23230	5	1	24	24.02
64QAM	782	23230	5	12	0	22.36
64QAM	782	23230	5	12	7	22.36
64QAM	782	23230	5	12	13	22.54
64QAM	782	23230	5	25	0	22.22
64QAM	784.5	23255	5	1	0	24.24
64QAM	784.5	23255	5	1	12	24.15
64QAM	784.5	23255	5	1	24	24.16
64QAM	784.5	23255	5	12	0	22.34
64QAM	784.5	23255	5	12	7	22.62
64QAM	784.5	23255	5	12	13	22.35
64QAM	784.5	23255	5	25	0	22.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	25.75
QPSK	782	23230	10	1	25	25.96
QPSK	782	23230	10	1	49	26.02
QPSK	782	23230	10	25	0	24.72
QPSK	782	23230	10	25	12	24.92
QPSK	782	23230	10	25	25	24.77
QPSK	782	23230	10	50	0	24.83
QPSK	782	23230	10	1	0	26.19
QPSK	782	23230	10	1	25	26.24
QPSK	782	23230	10	1	49	26.05
QPSK	782	23230	10	25	0	24.69
QPSK	782	23230	10	25	12	24.88
QPSK	782	23230	10	25	25	24.74
QPSK	782	23230	10	50	0	24.79
QPSK	782	23230	10	1	0	25.83
QPSK	782	23230	10	1	25	25.84
QPSK	782	23230	10	1	49	25.91
QPSK	782	23230	10	25	0	24.72
QPSK	782	23230	10	25	12	24.90
QPSK	782	23230	10	25	25	24.76
QPSK	782	23230	10	50	0	24.81

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	25.09
16QAM	782	23230	10	1	25	25.22
16QAM	782	23230	10	1	49	25.00
16QAM	782	23230	10	25	0	23.84
16QAM	782	23230	10	25	12	23.96
16QAM	782	23230	10	25	25	23.78
16QAM	782	23230	10	50	0	23.85
16QAM	782	23230	10	1	0	25.02
16QAM	782	23230	10	1	25	25.41
16QAM	782	23230	10	1	49	25.45
16QAM	782	23230	10	25	0	23.77
16QAM	782	23230	10	25	12	23.85
16QAM	782	23230	10	25	25	23.79
16QAM	782	23230	10	50	0	23.83
16QAM	782	23230	10	1	0	25.01
16QAM	782	23230	10	1	25	25.32
16QAM	782	23230	10	1	49	24.37
16QAM	782	23230	10	25	0	24.01
16QAM	782	23230	10	25	12	24.16
16QAM	782	23230	10	25	25	23.90
16QAM	782	23230	10	50	0	23.89
64QAM	782	23230	10	1	0	24.20
64QAM	782	23230	10	1	25	24.42
64QAM	782	23230	10	1	49	23.62
64QAM	782	23230	10	25	0	22.27
64QAM	782	23230	10	25	12	22.29
64QAM	782	23230	10	25	25	22.21
64QAM	782	23230	10	50	0	22.39
64QAM	782	23230	10	1	0	24.38
64QAM	782	23230	10	1	25	24.11
64QAM	782	23230	10	1	49	23.89
64QAM	782	23230	10	25	0	22.14
64QAM	782	23230	10	25	12	22.22
64QAM	782	23230	10	25	25	22.26
64QAM	782	23230	10	50	0	22.29
64QAM	782	23230	10	1	0	24.26
64QAM	782	23230	10	1	25	24.12
64QAM	782	23230	10	1	49	24.12
64QAM	782	23230	10	25	0	22.16
64QAM	782	23230	10	25	12	22.30
64QAM	782	23230	10	25	25	22.33
64QAM	782	23230	10	50	0	22.40

## 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	4.46	Fig.1
13	QPSK	782	23230	5	25	0	4.45	Fig.2
13	QPSK	784.5	23255	5	25	0	4.45	Fig.3
13	QPSK	782	23230	10	50	0	8.91	Fig.4
13	QPSK	782	23230	10	50	0	8.90	Fig.5
13	QPSK	782	23230	10	50	0	8.92	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	4.45	Fig.7
13	16QAM	782	23230	5	25	0	4.45	Fig.8
13	16QAM	784.5	23255	5	25	0	4.44	Fig.9
13	16QAM	782	23230	10	50	0	8.90	Fig.10
13	16QAM	782	23230	10	50	0	8.91	Fig.11
13	16QAM	782	23230	10	50	0	8.90	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	4.47	Fig.13
13	64QAM	782	23230	5	25	0	4.45	Fig.14
13	64QAM	784.5	23255	5	25	0	4.46	Fig.15
13	64QAM	782	23230	10	50	0	8.92	Fig.16
13	64QAM	782	23230	10	50	0	8.92	Fig.17
13	64QAM	782	23230	10	50	0	8.91	Fig.18

Test Mode: QPSK

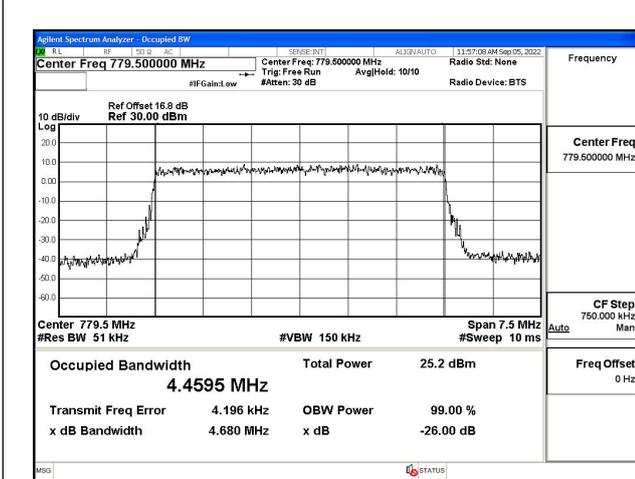


Fig.1

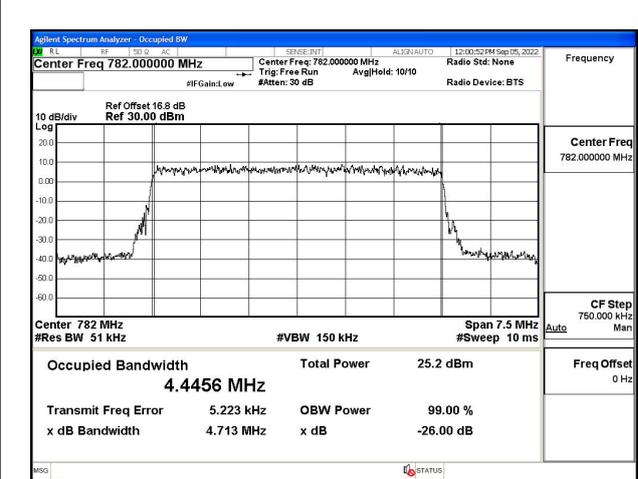


Fig.2

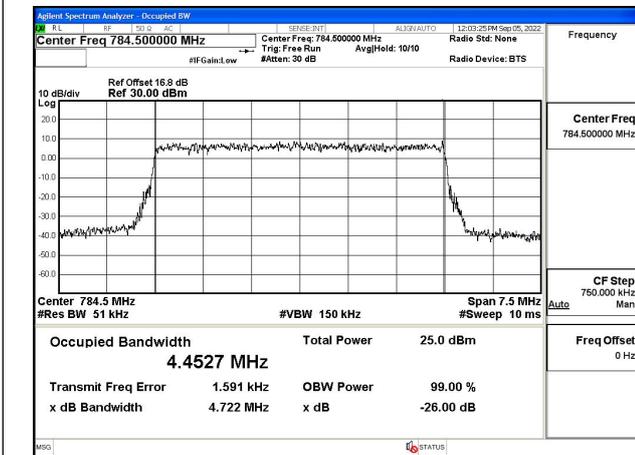


Fig.3

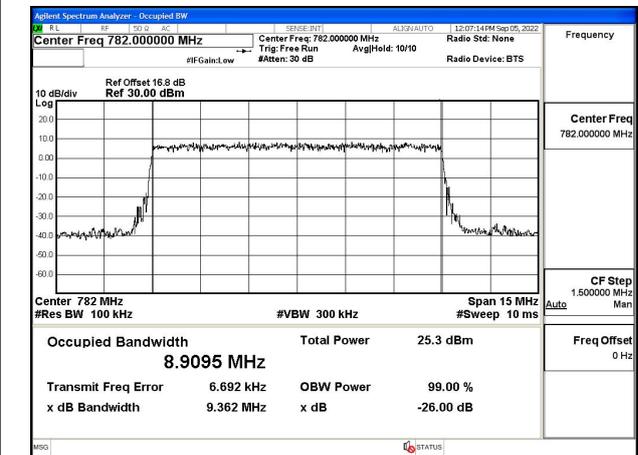


Fig.4

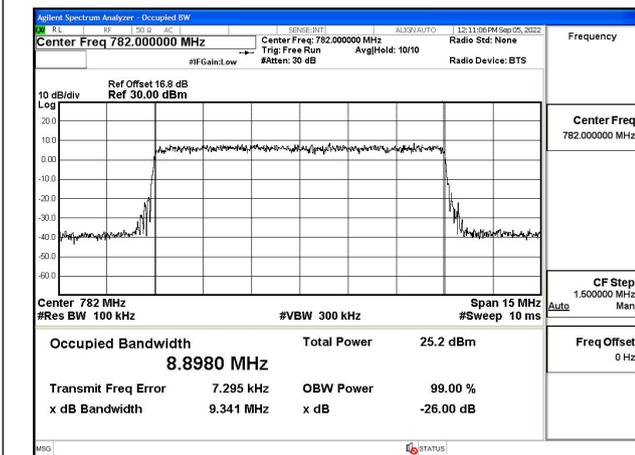


Fig.5

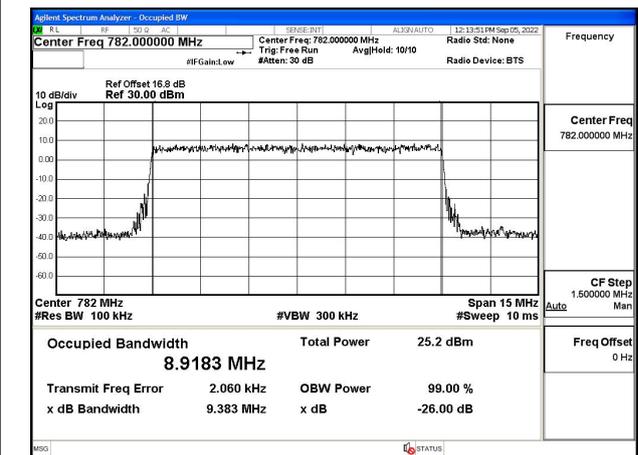


Fig.6

Test Mode: 16QAM

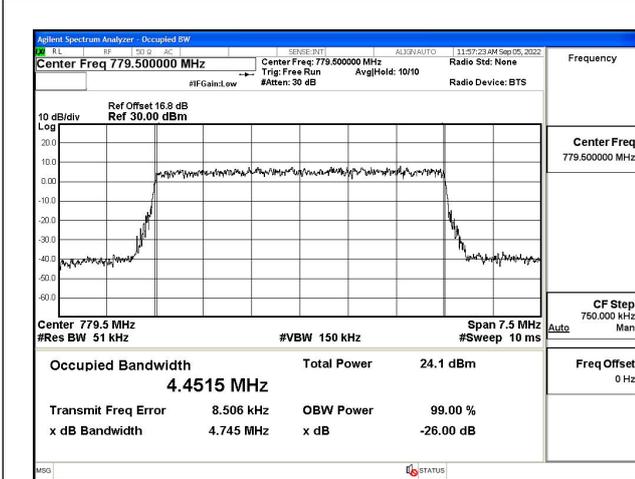


Fig.7

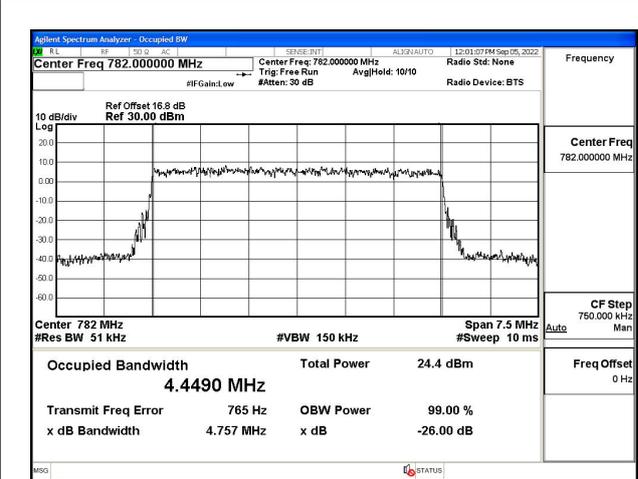


Fig.8

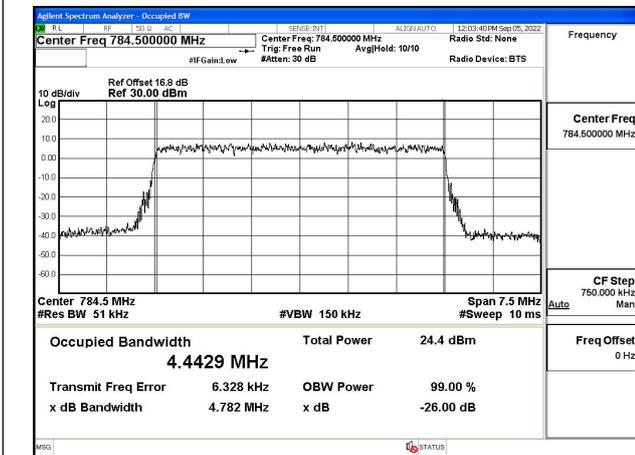


Fig.9

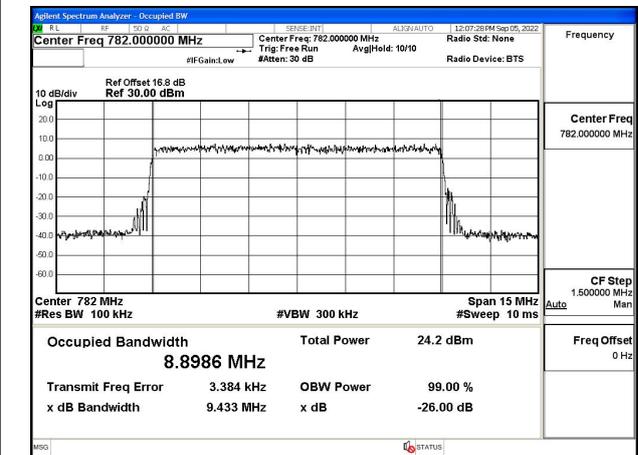


Fig.10

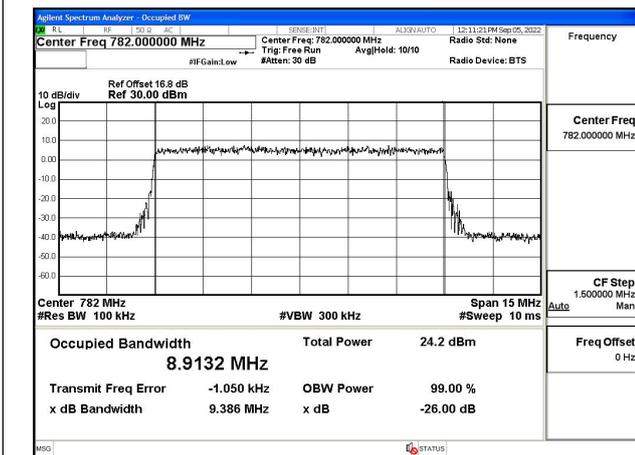


Fig.11

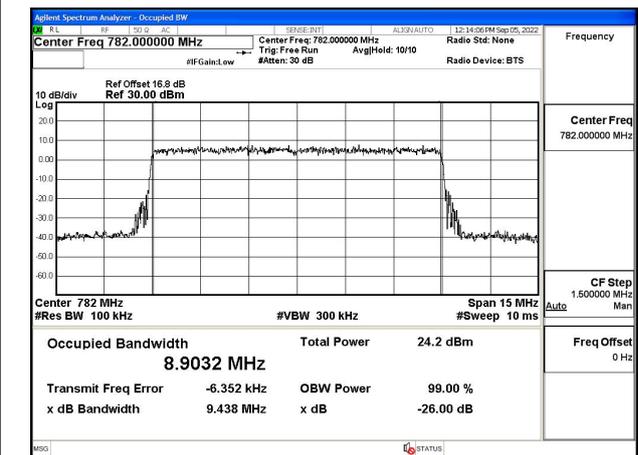


Fig.12

Test Mode: 64QAM

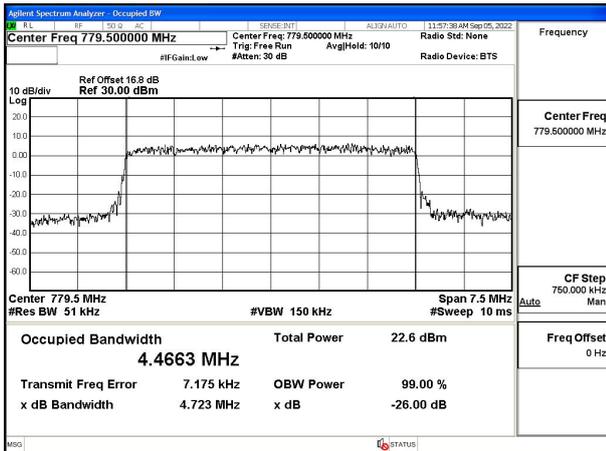


Fig.13

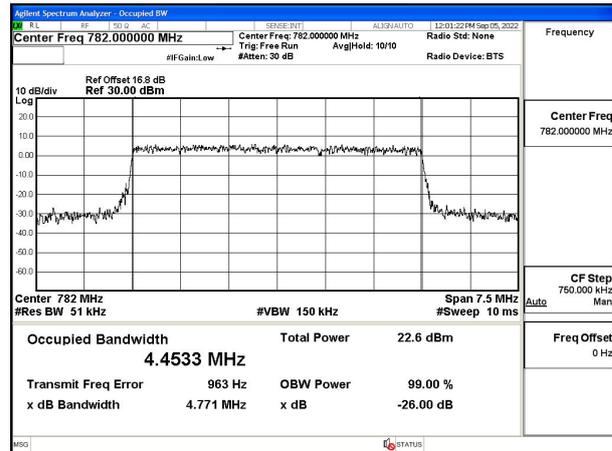


Fig.14

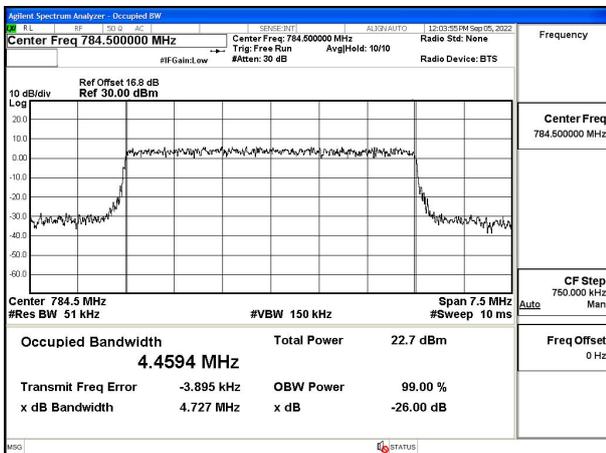


Fig.15

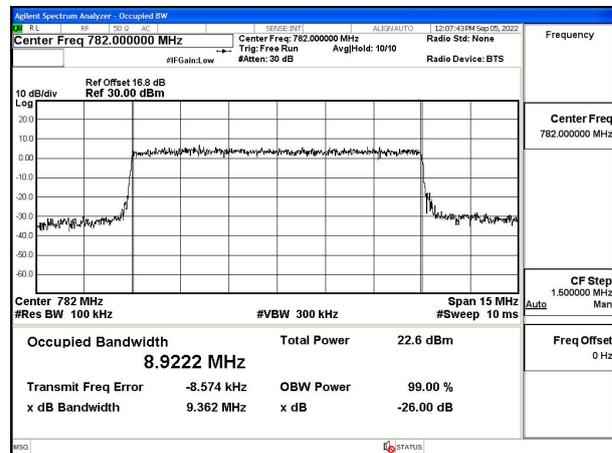


Fig.16

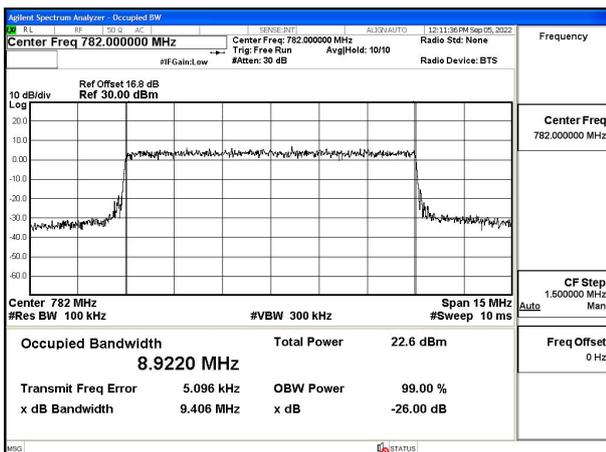


Fig.17

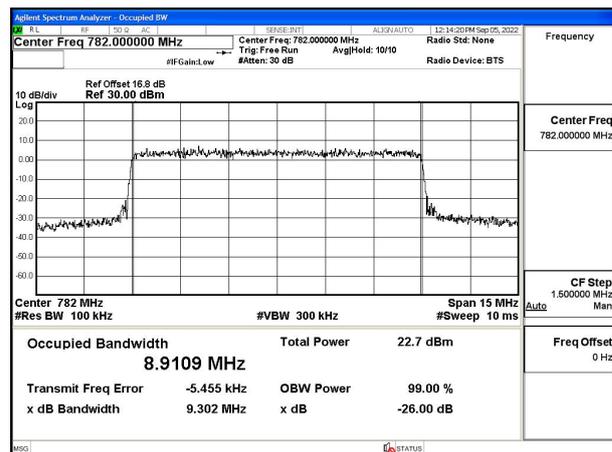


Fig.18

### 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	4.68	Fig.1
13	QPSK	782	23230	5	25	0	4.71	Fig.2
13	QPSK	784.5	23255	5	25	0	4.72	Fig.3
13	QPSK	782	23230	10	50	0	9.36	Fig.4
13	QPSK	782	23230	10	50	0	9.34	Fig.5
13	QPSK	782	23230	10	50	0	9.38	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	4.74	Fig.7
13	16QAM	782	23230	5	25	0	4.76	Fig.8
13	16QAM	784.5	23255	5	25	0	4.78	Fig.9
13	16QAM	782	23230	10	50	0	9.43	Fig.10
13	16QAM	782	23230	10	50	0	9.39	Fig.11
13	16QAM	782	23230	10	50	0	9.44	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	4.72	Fig.13
13	64QAM	782	23230	5	25	0	4.77	Fig.14
13	64QAM	784.5	23255	5	25	0	4.73	Fig.15
13	64QAM	782	23230	10	50	0	9.36	Fig.16
13	64QAM	782	23230	10	50	0	9.41	Fig.17
13	64QAM	782	23230	10	50	0	9.30	Fig.18

Test Mode: QPSK

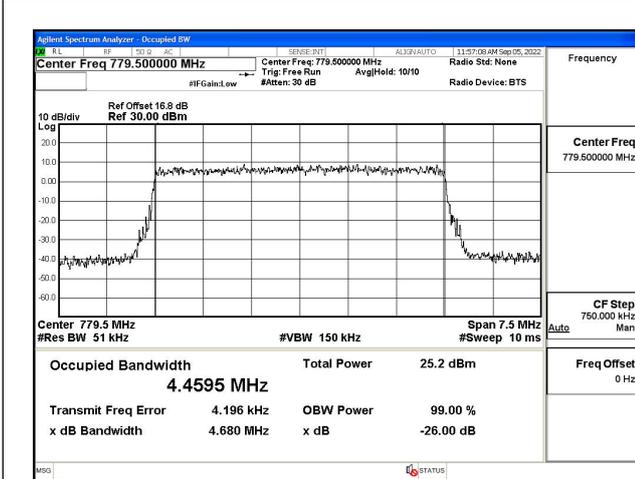


Fig.1

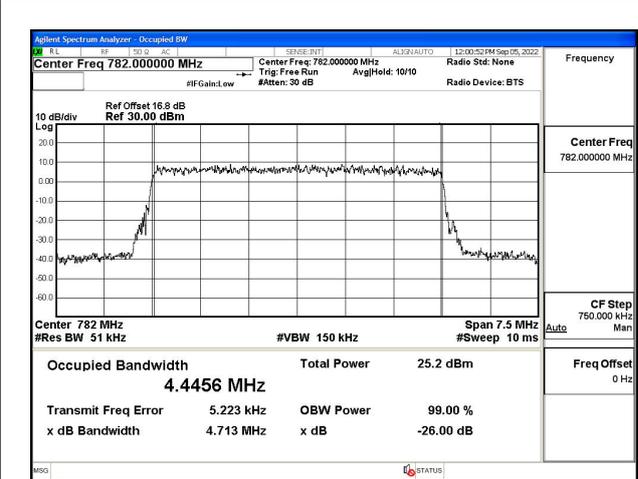


Fig.2

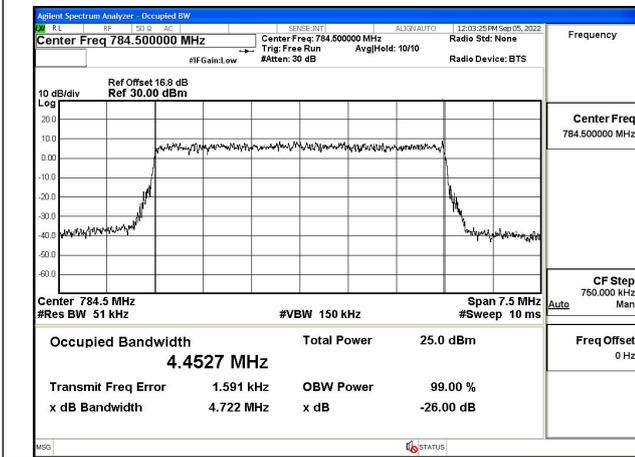


Fig.3

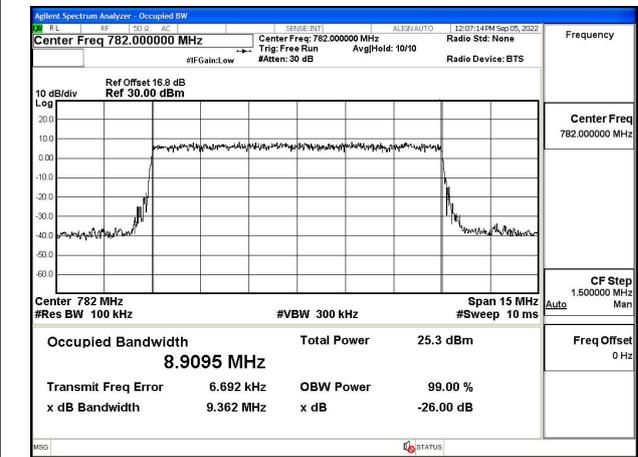


Fig.4

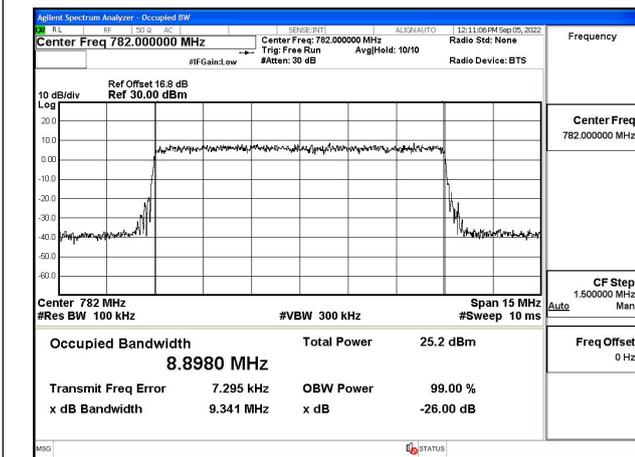


Fig.5

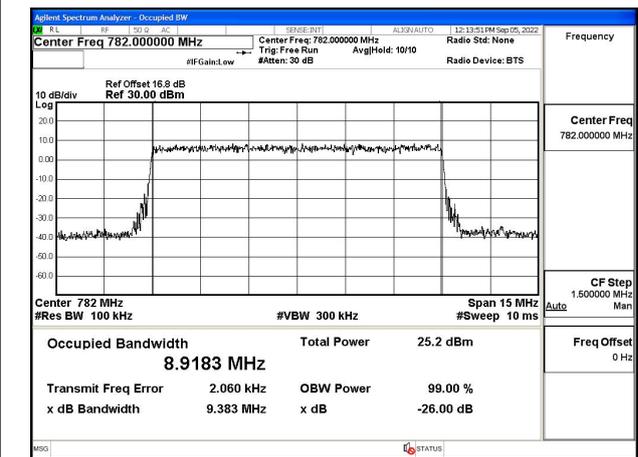


Fig.6

Test Mode: 16QAM

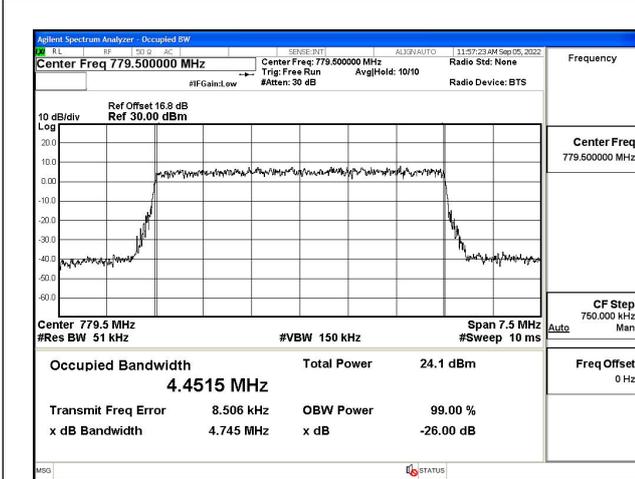


Fig.7

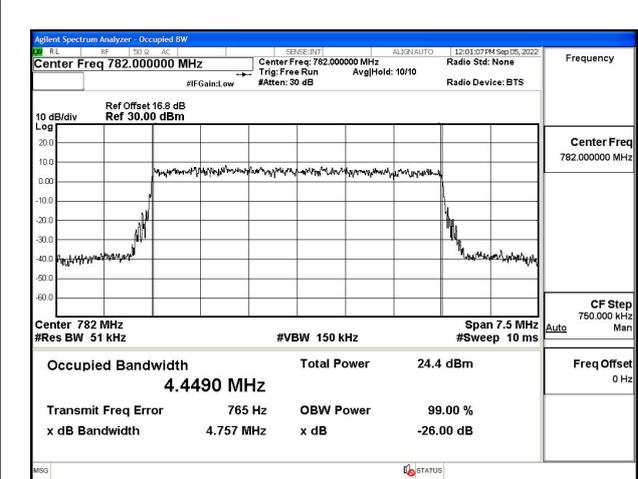


Fig.8

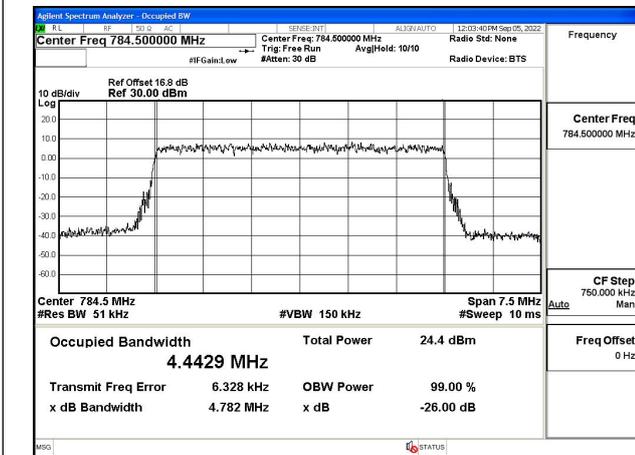


Fig.9

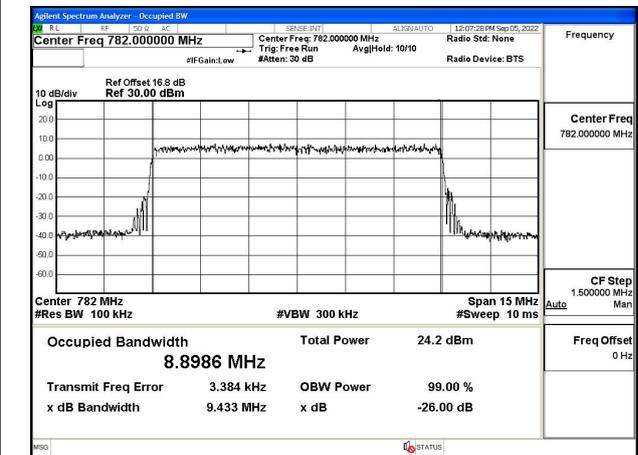


Fig.10

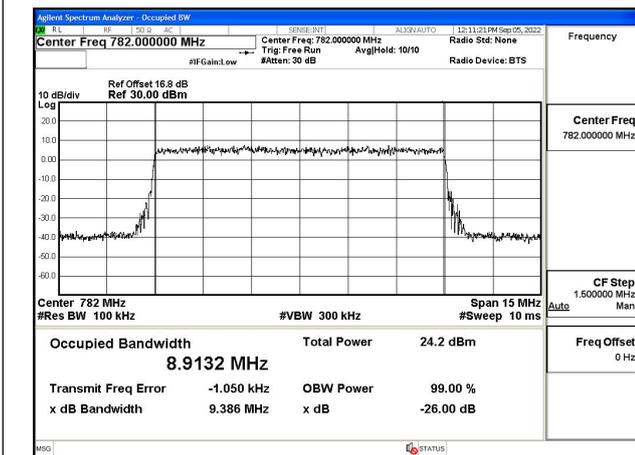


Fig.11

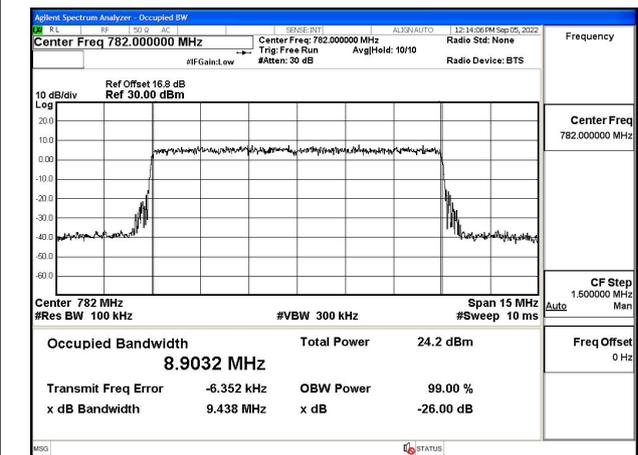


Fig.12

Test Mode: 64QAM

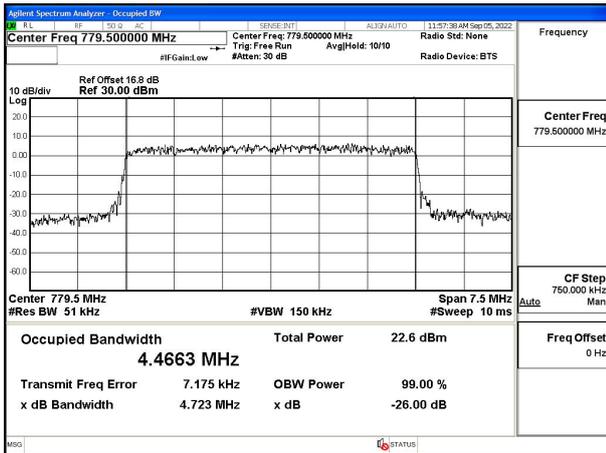


Fig.13

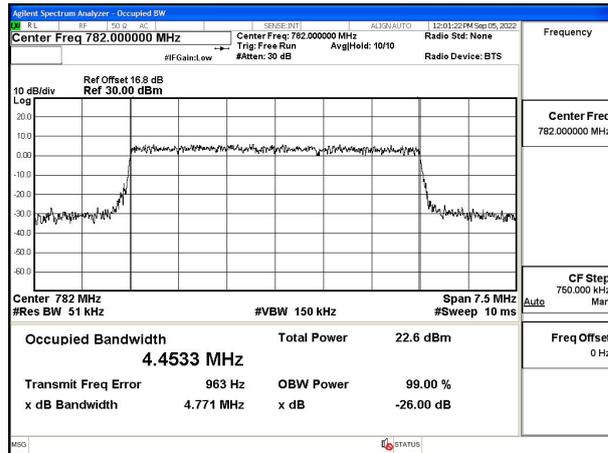


Fig.14

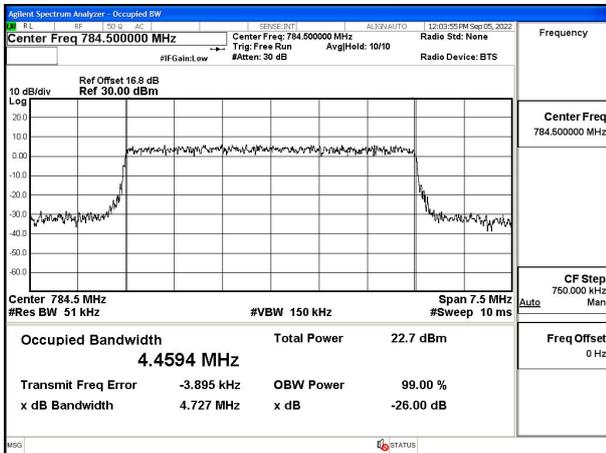


Fig.15

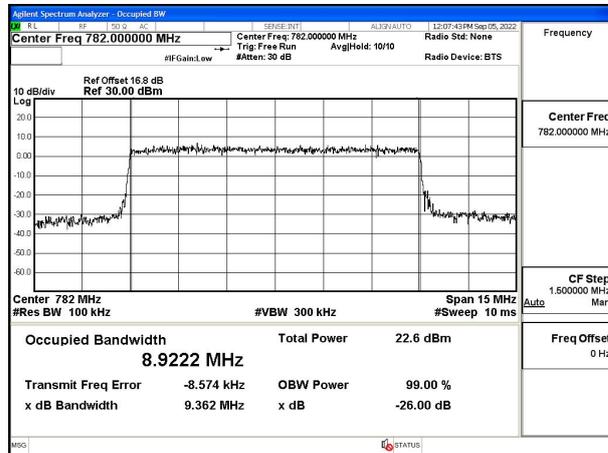


Fig.16

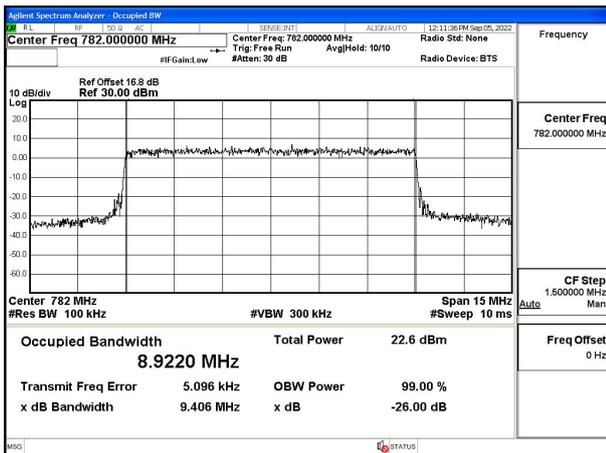


Fig.17

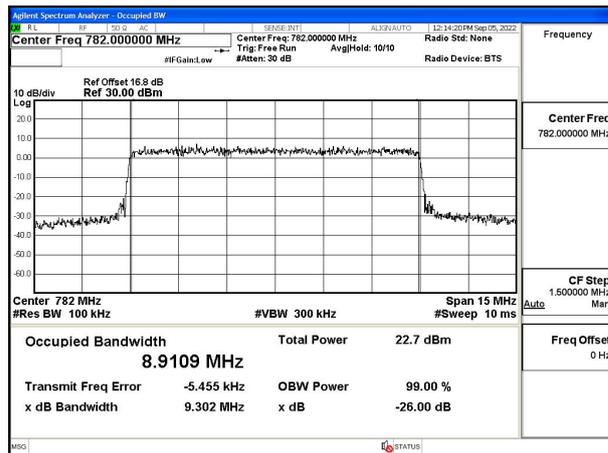


Fig.18

#### 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

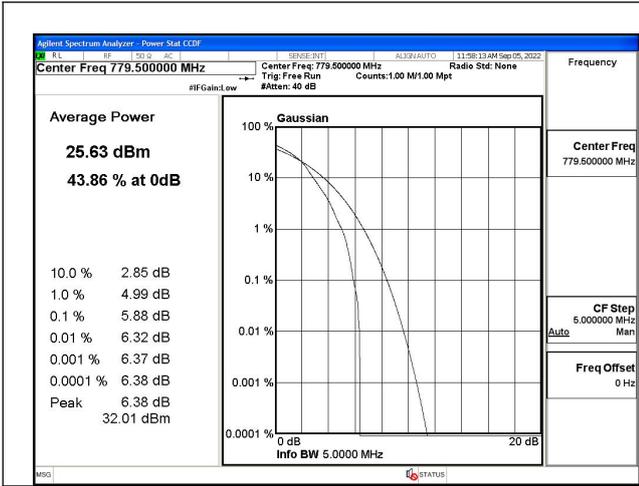


Fig.1

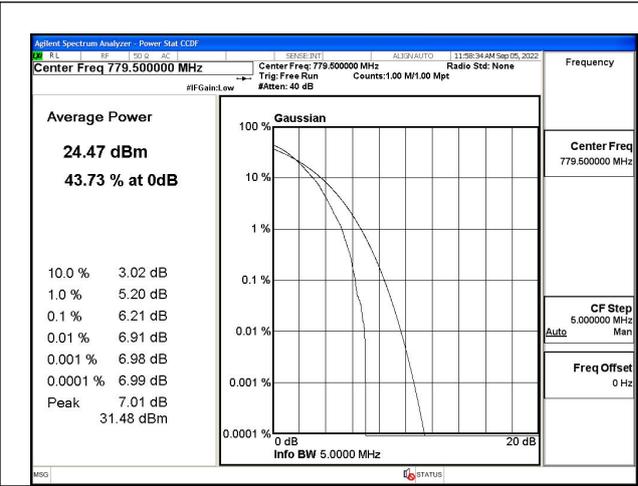


Fig.2

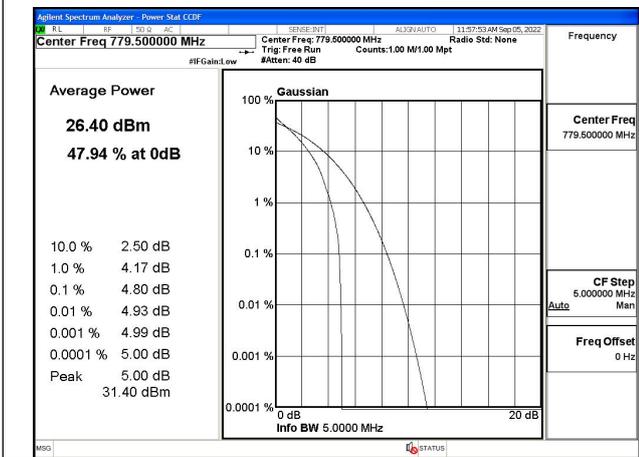


Fig.3

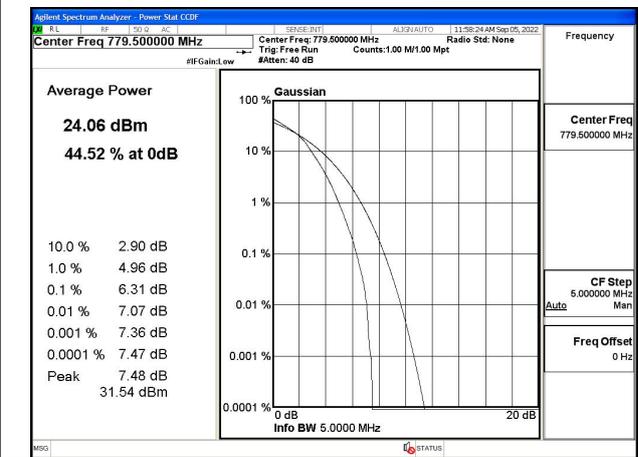


Fig.4

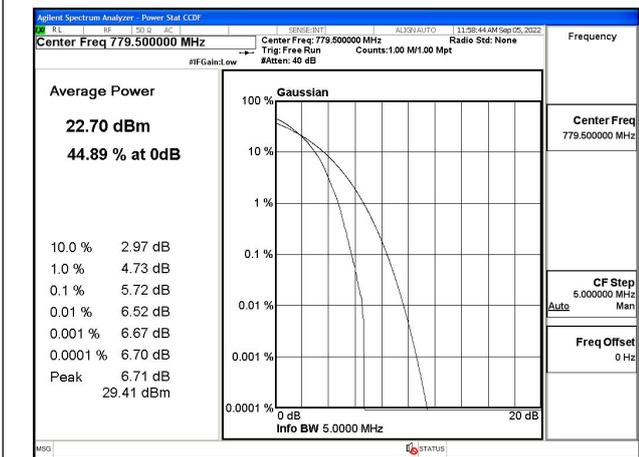


Fig.5

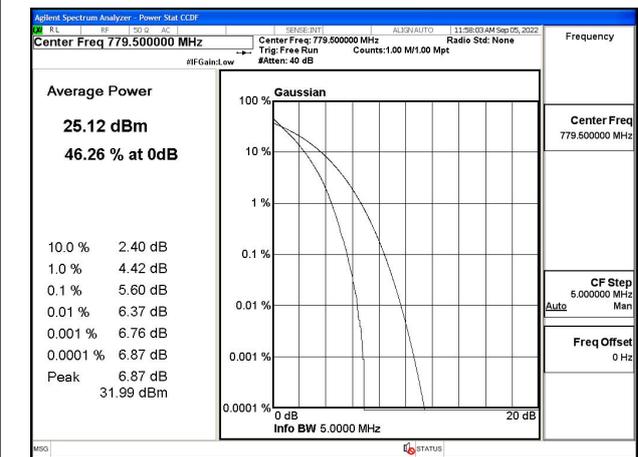


Fig.6