

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	23.60
QPSK	779.5	23205	5	1	12	23.88
QPSK	779.5	23205	5	1	24	23.70
QPSK	779.5	23205	5	12	0	22.70
QPSK	779.5	23205	5	12	7	22.85
QPSK	779.5	23205	5	12	13	22.87
QPSK	779.5	23205	5	25	0	22.79
QPSK	782	23230	5	1	0	23.81
QPSK	782	23230	5	1	12	23.94
QPSK	782	23230	5	1	24	23.64
QPSK	782	23230	5	12	0	22.87
QPSK	782	23230	5	12	7	22.96
QPSK	782	23230	5	12	13	22.91
QPSK	782	23230	5	25	0	22.83
QPSK	784.5	23255	5	1	0	23.78
QPSK	784.5	23255	5	1	12	24.05
QPSK	784.5	23255	5	1	24	23.70
QPSK	784.5	23255	5	12	0	22.86
QPSK	784.5	23255	5	12	7	22.87
QPSK	784.5	23255	5	12	13	22.81
QPSK	784.5	23255	5	25	0	22.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	22.86
16QAM	779.5	23205	5	1	12	23.23
16QAM	779.5	23205	5	1	24	23.03
16QAM	779.5	23205	5	12	0	21.75
16QAM	779.5	23205	5	12	7	21.83
16QAM	779.5	23205	5	12	13	21.77
16QAM	779.5	23205	5	25	0	21.82
16QAM	782	23230	5	1	0	22.91
16QAM	782	23230	5	1	12	23.09
16QAM	782	23230	5	1	24	22.85
16QAM	782	23230	5	12	0	21.85
16QAM	782	23230	5	12	7	21.94
16QAM	782	23230	5	12	13	21.88
16QAM	782	23230	5	25	0	21.85
16QAM	784.5	23255	5	1	0	23.18
16QAM	784.5	23255	5	1	12	23.43
16QAM	784.5	23255	5	1	24	23.13

16QAM	784.5	23255	5	12	0	21.73
16QAM	784.5	23255	5	12	7	21.89
16QAM	784.5	23255	5	12	13	21.82
16QAM	784.5	23255	5	25	0	21.83

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	23.77
QPSK	782	23230	10	1	25	23.96
QPSK	782	23230	10	1	49	23.82
QPSK	782	23230	10	25	0	22.91
QPSK	782	23230	10	25	12	22.94
QPSK	782	23230	10	25	25	22.86
QPSK	782	23230	10	50	0	22.95
QPSK	782	23230	10	1	0	23.83
QPSK	782	23230	10	1	25	24.04
QPSK	782	23230	10	1	49	23.85
QPSK	782	23230	10	25	0	22.84
QPSK	782	23230	10	25	12	22.97
QPSK	782	23230	10	25	25	22.92
QPSK	782	23230	10	50	0	22.87
QPSK	782	23230	10	1	0	23.79
QPSK	782	23230	10	1	25	24.09
QPSK	782	23230	10	1	49	23.80
QPSK	782	23230	10	25	0	22.85
QPSK	782	23230	10	25	12	22.94
QPSK	782	23230	10	25	25	22.92
QPSK	782	23230	10	50	0	23.00

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	23.39
16QAM	782	23230	10	1	25	23.58
16QAM	782	23230	10	1	49	23.38
16QAM	782	23230	10	25	0	21.93
16QAM	782	23230	10	25	12	21.95
16QAM	782	23230	10	25	25	21.99
16QAM	782	23230	10	50	0	21.93
16QAM	782	23230	10	1	0	23.46
16QAM	782	23230	10	1	25	23.52
16QAM	782	23230	10	1	49	23.39
16QAM	782	23230	10	25	0	21.91
16QAM	782	23230	10	25	12	21.92
16QAM	782	23230	10	25	25	21.96
16QAM	782	23230	10	50	0	22.02

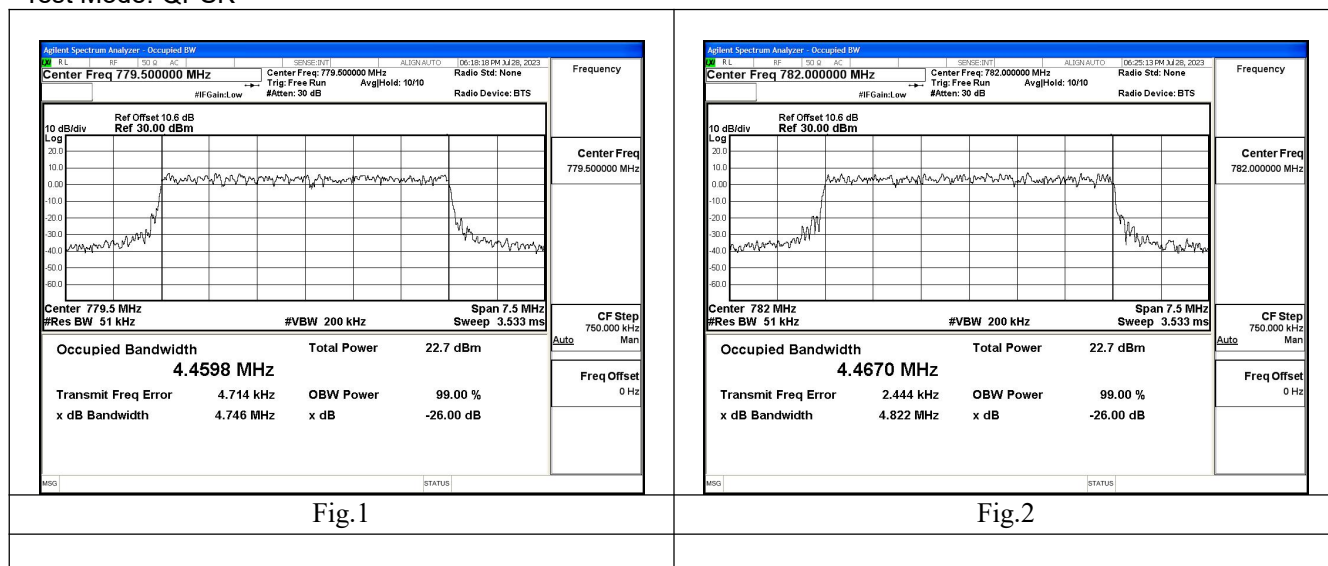
16QAM	782	23230	10	1	0	23.43
16QAM	782	23230	10	1	25	23.45
16QAM	782	23230	10	1	49	23.42
16QAM	782	23230	10	25	0	21.97
16QAM	782	23230	10	25	12	22.04
16QAM	782	23230	10	25	25	21.96
16QAM	782	23230	10	50	0	22.01

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	4.460	Fig.1
13	QPSK	782	23230	5	25	0	4.467	Fig.2
13	QPSK	784.5	23255	5	25	0	4.462	Fig.3
13	QPSK	782	23230	10	50	0	8.925	Fig.4
13	QPSK	782	23230	10	50	0	8.930	Fig.5
13	QPSK	782	23230	10	50	0	8.952	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	4.476	Fig.7
13	16QAM	782	23230	5	25	0	4.464	Fig.8
13	16QAM	784.5	23255	5	25	0	4.441	Fig.9
13	16QAM	782	23230	10	50	0	8.944	Fig.10
13	16QAM	782	23230	10	50	0	8.896	Fig.11
13	16QAM	782	23230	10	50	0	8.917	Fig.12

Test Mode: QPSK



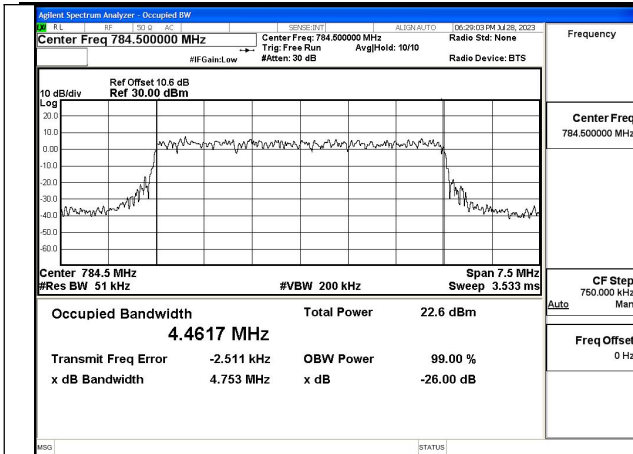


Fig.3

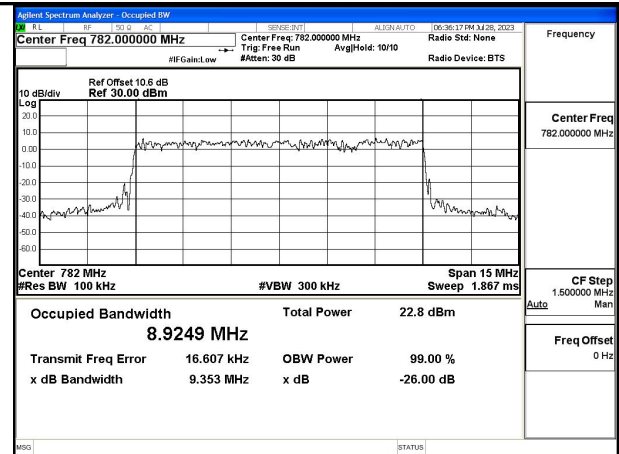


Fig.4

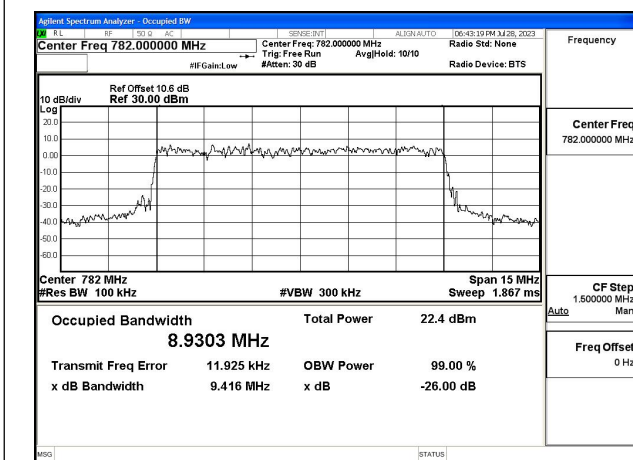


Fig.5

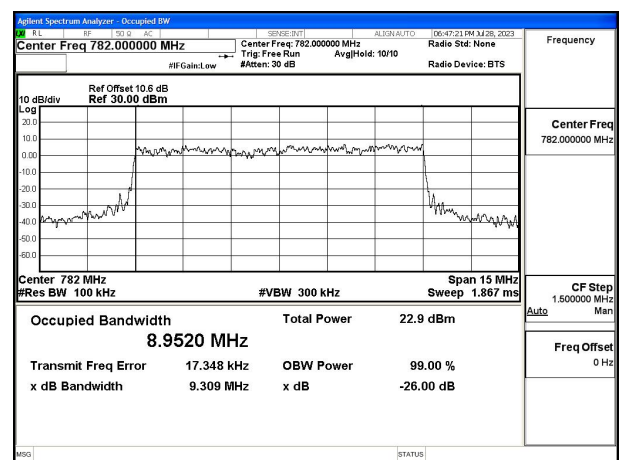


Fig.6

Test Mode: 16QAM

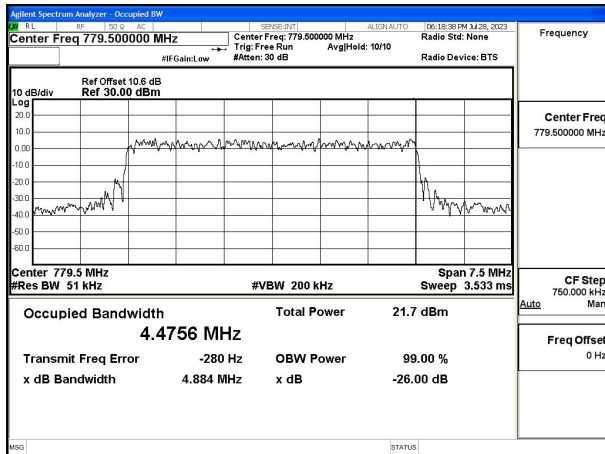


Fig.7

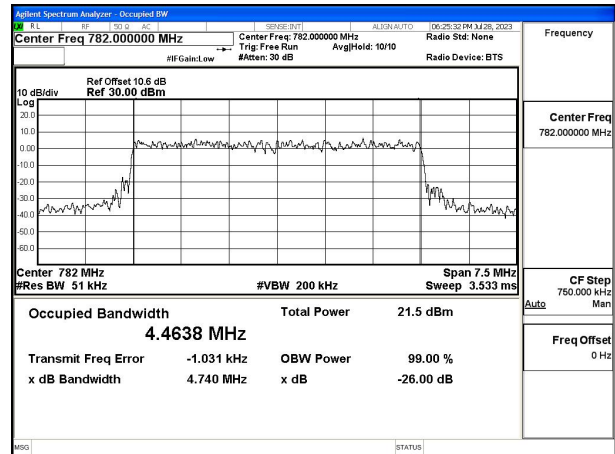


Fig.8

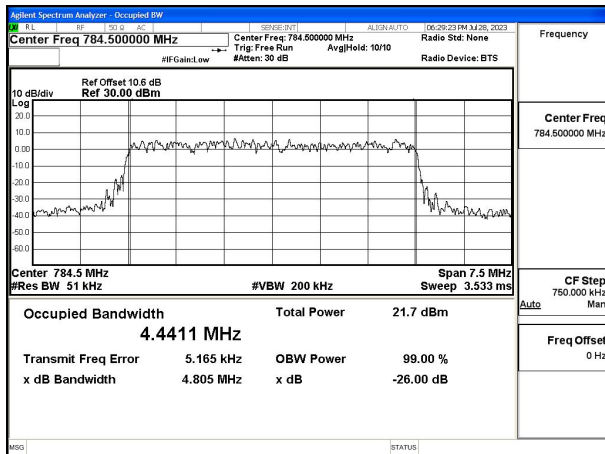


Fig.9

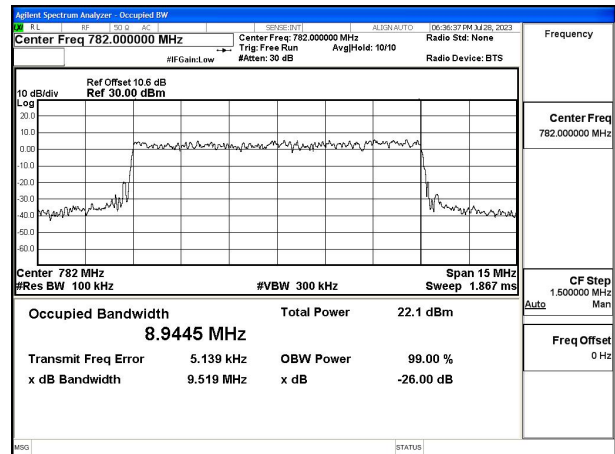


Fig.10

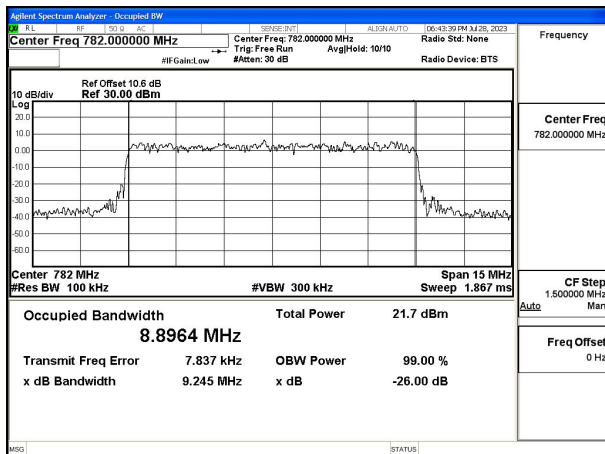


Fig.11

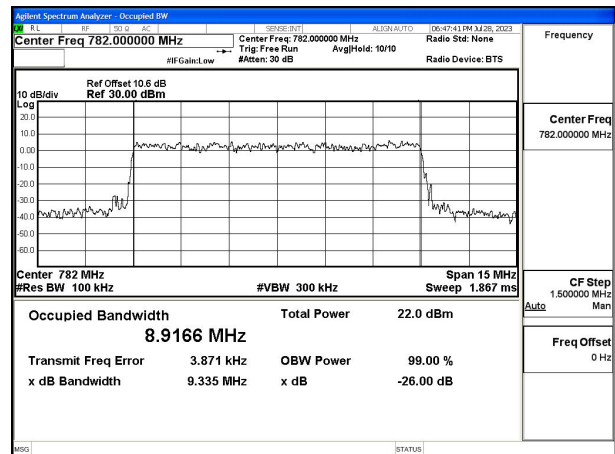


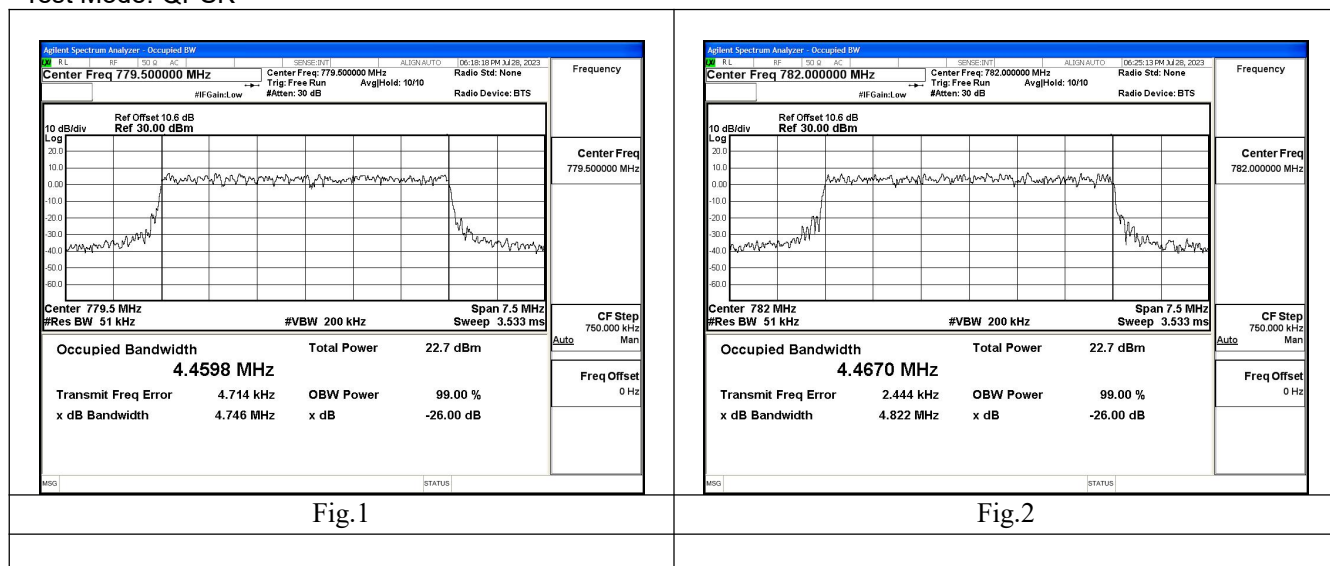
Fig.12

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	4.746	Fig.1
13	QPSK	782	23230	5	25	0	4.822	Fig.2
13	QPSK	784.5	23255	5	25	0	4.753	Fig.3
13	QPSK	782	23230	10	50	0	9.353	Fig.4
13	QPSK	782	23230	10	50	0	9.416	Fig.5
13	QPSK	782	23230	10	50	0	9.309	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	4.884	Fig.7
13	16QAM	782	23230	5	25	0	4.740	Fig.8
13	16QAM	784.5	23255	5	25	0	4.805	Fig.9
13	16QAM	782	23230	10	50	0	9.519	Fig.10
13	16QAM	782	23230	10	50	0	9.245	Fig.11
13	16QAM	782	23230	10	50	0	9.335	Fig.12

Test Mode: QPSK



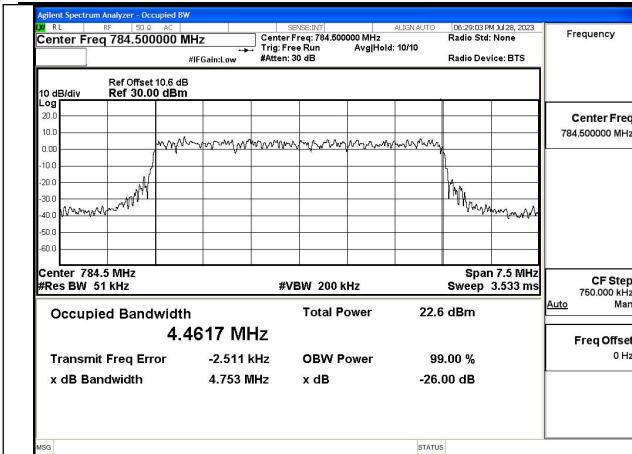


Fig.3

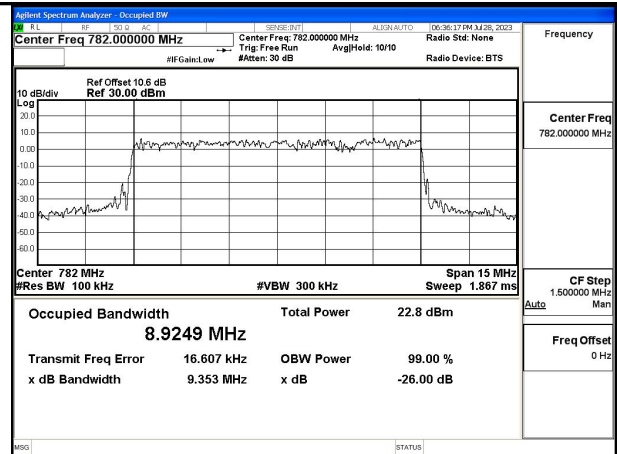


Fig.4

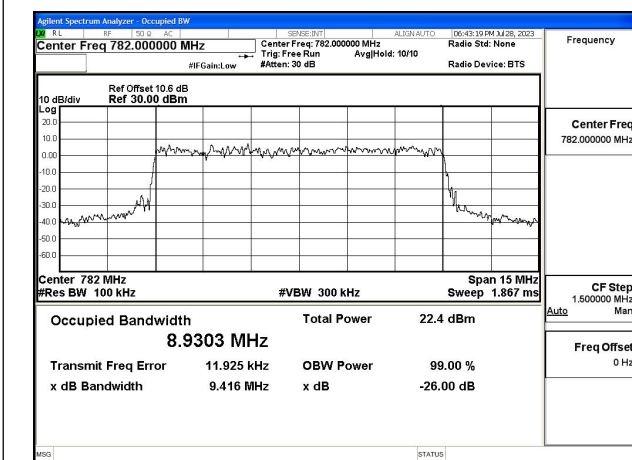


Fig.5

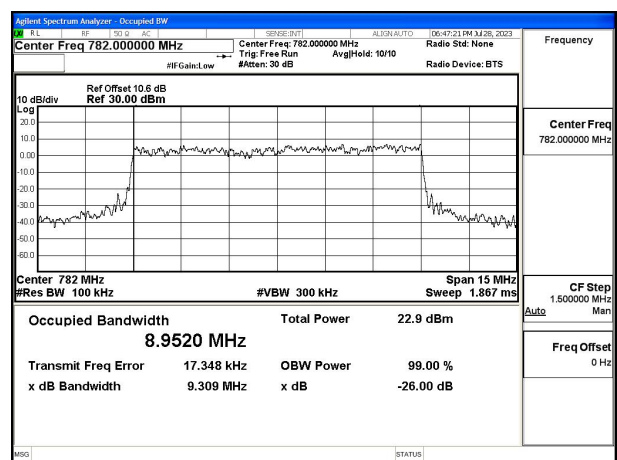


Fig.6

Test Mode: 16QAM

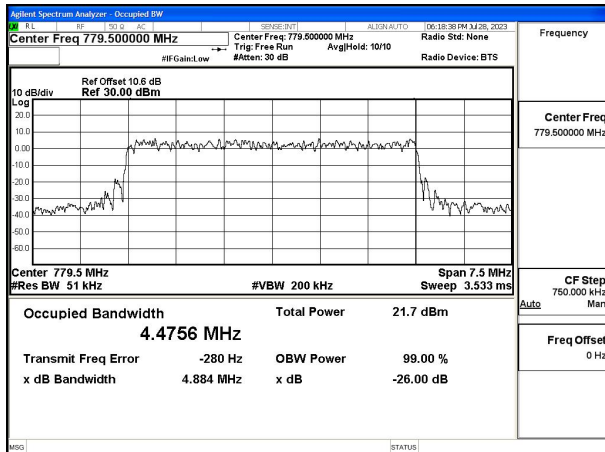


Fig.7

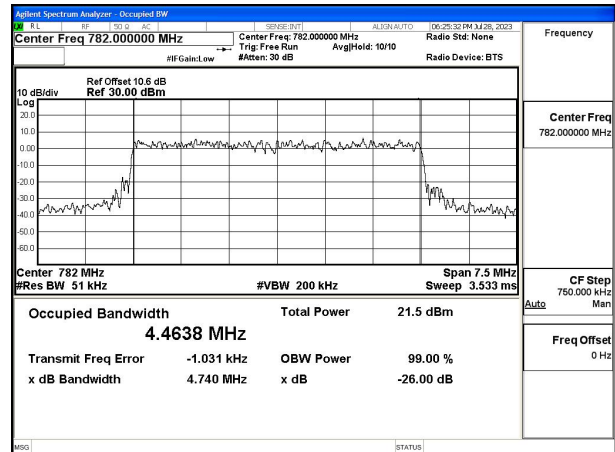


Fig.8

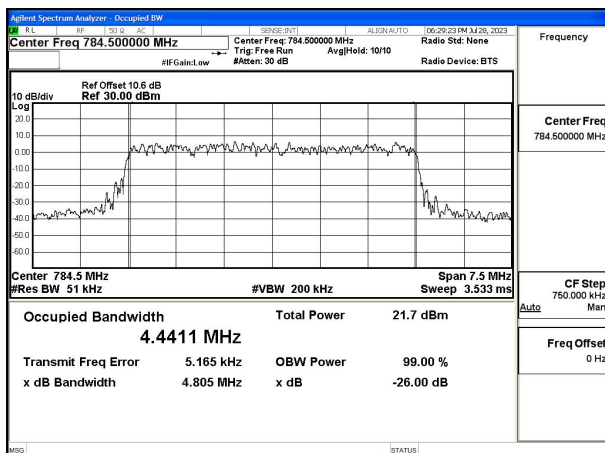


Fig.9

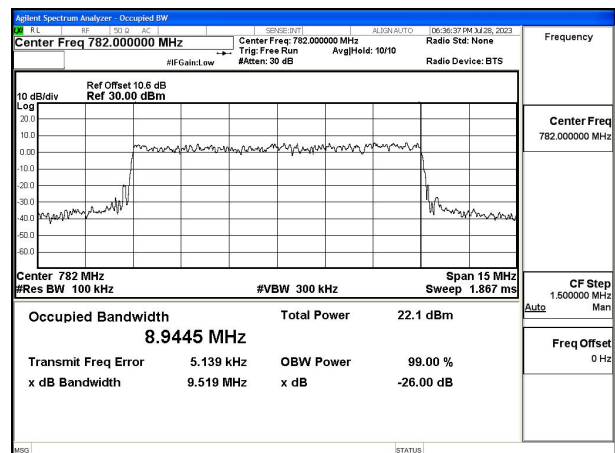


Fig.10

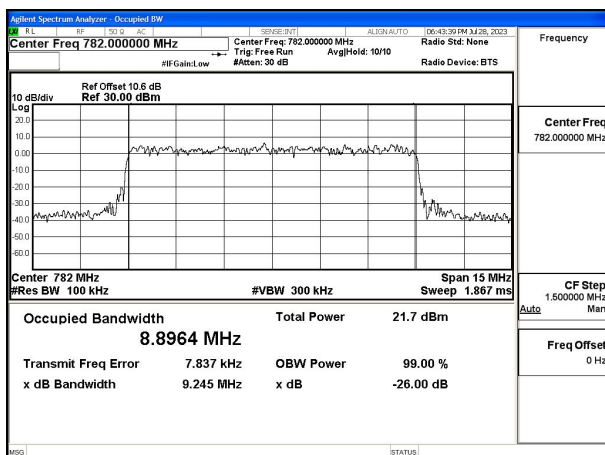


Fig.11

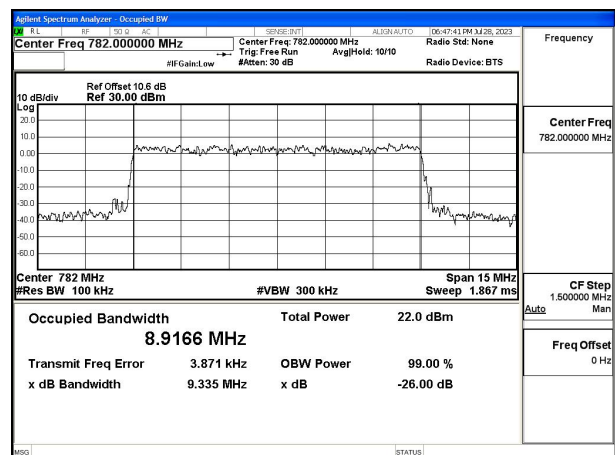


Fig.12

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	---
13	779.5	23205	5	25	0	Fig.3	Fig.4	---
13	782	23230	5	1	24	Fig.5	Fig.6	---
13	782	23230	5	25	0	Fig.7	Fig.8	---
13	784.5	23255	5	1	24	Fig.9	Fig.10	---
13	784.5	23255	5	25	0	Fig.11	Fig.12	---
13	782	23230	10	1	49	Fig.13	Fig.14	---
13	782	23230	10	50	0	Fig.15	Fig.16	---

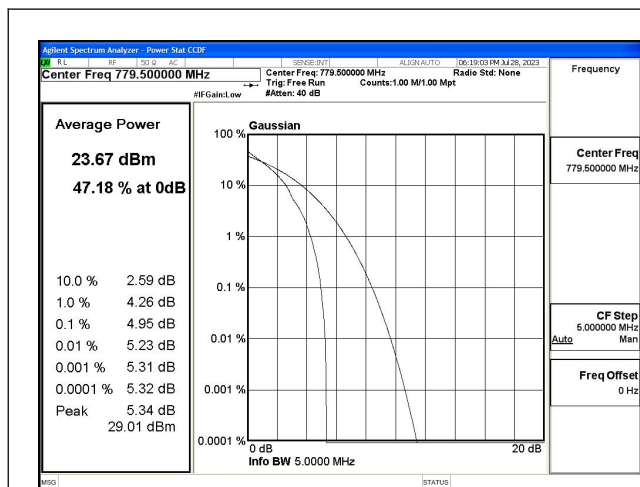


Fig.1

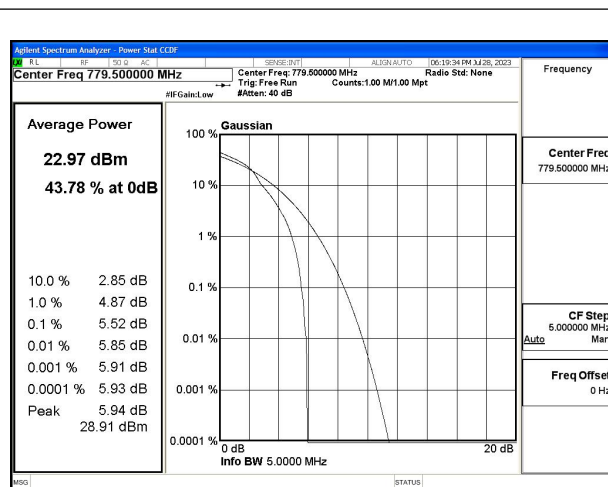


Fig.2

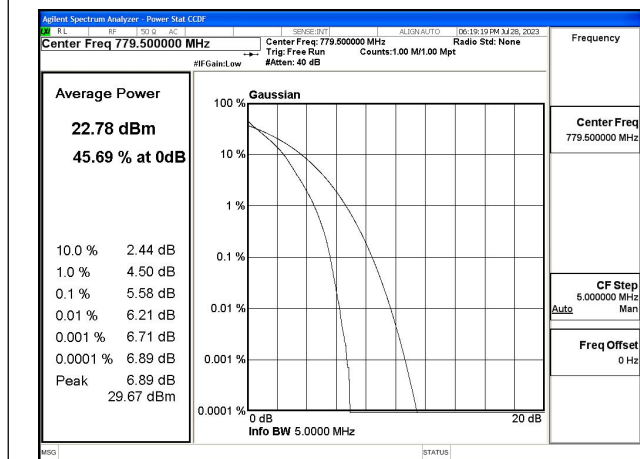


Fig.3

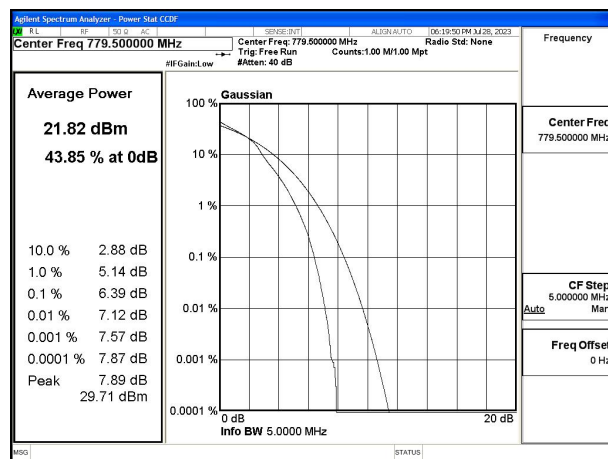


Fig.4

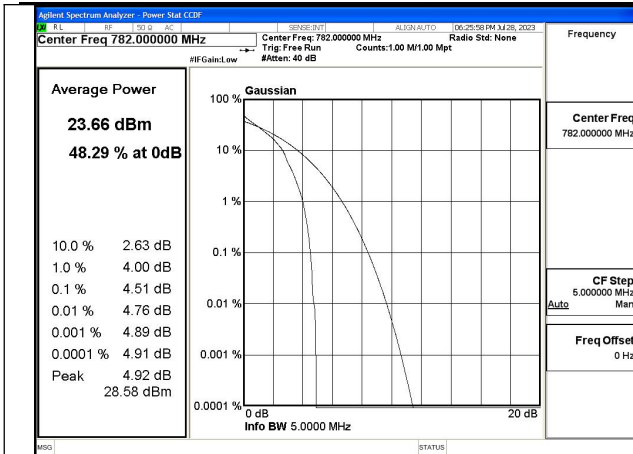


Fig.5

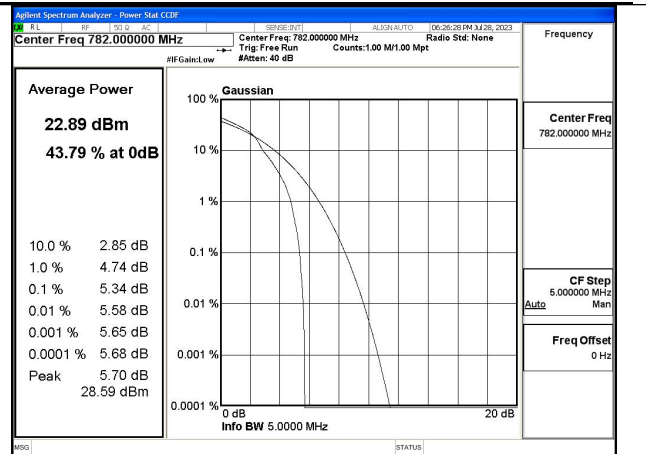


Fig.6

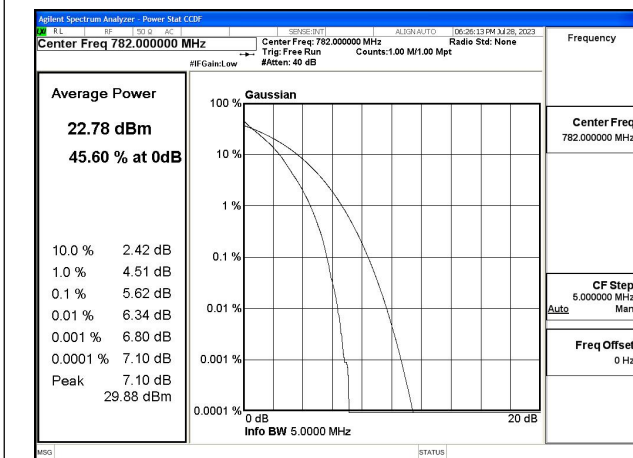


Fig.7

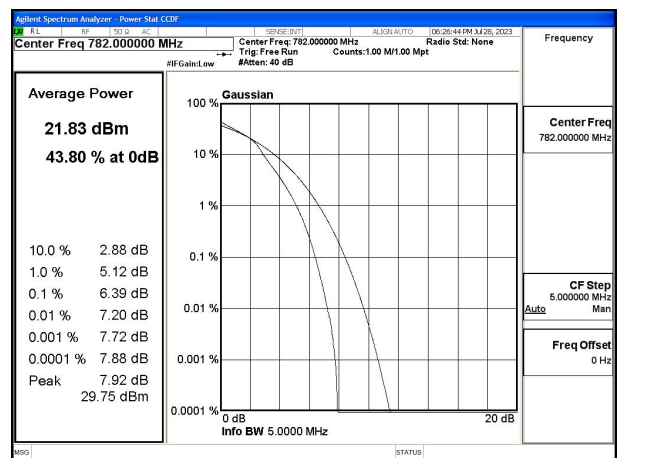


Fig.8

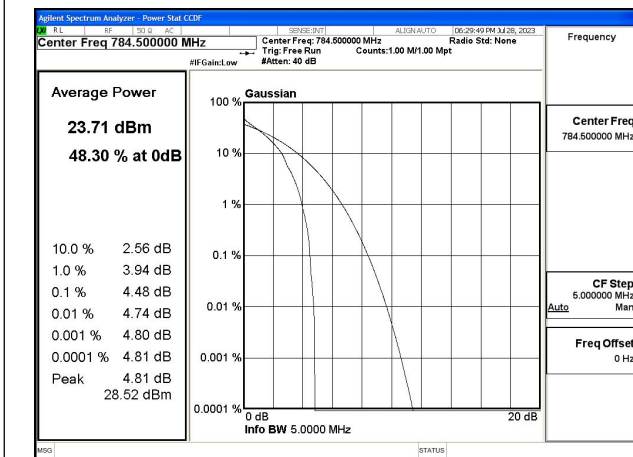


Fig.9

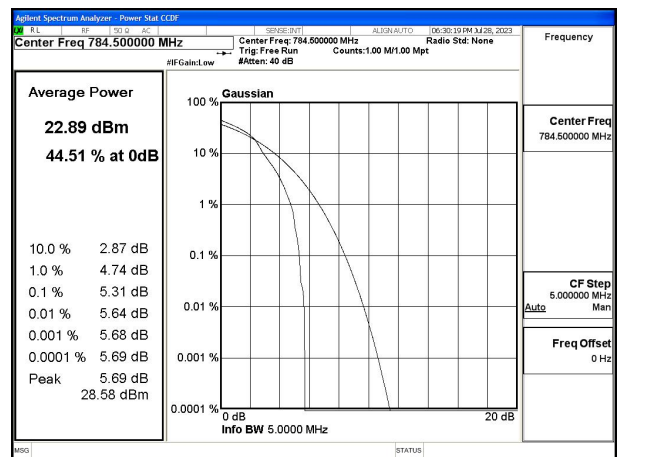


Fig.10

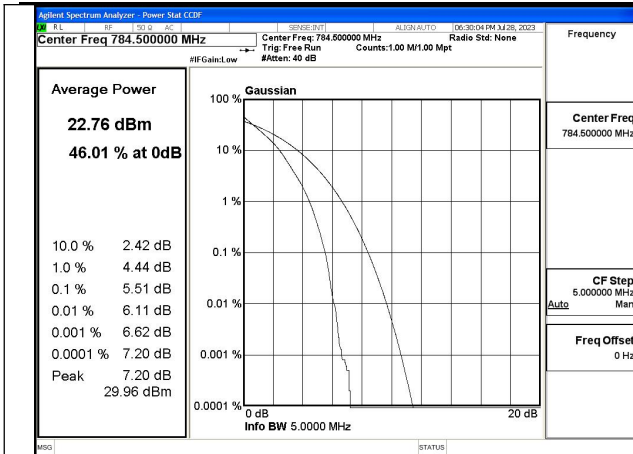


Fig.11

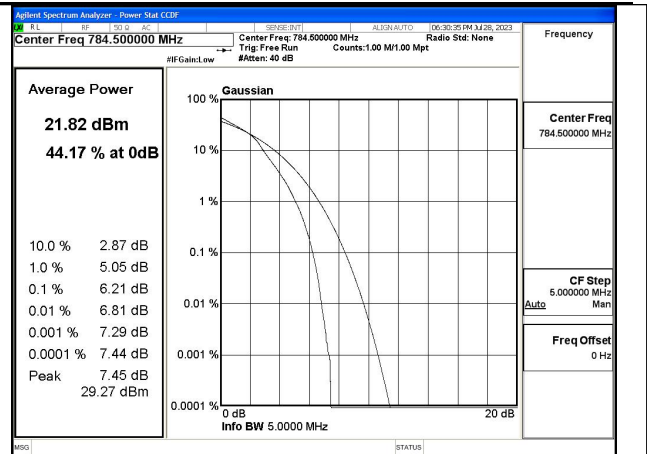


Fig.12

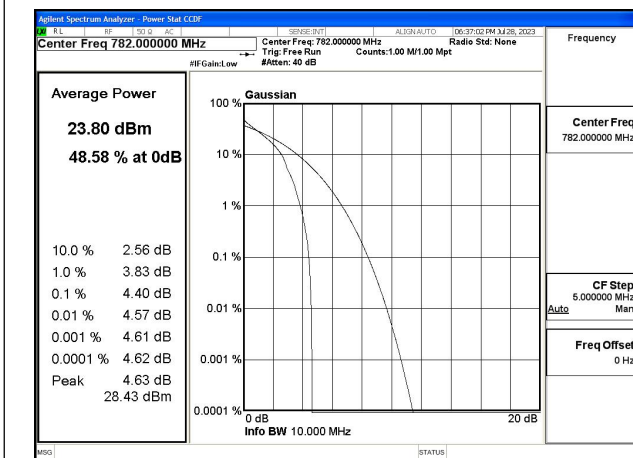


Fig.13

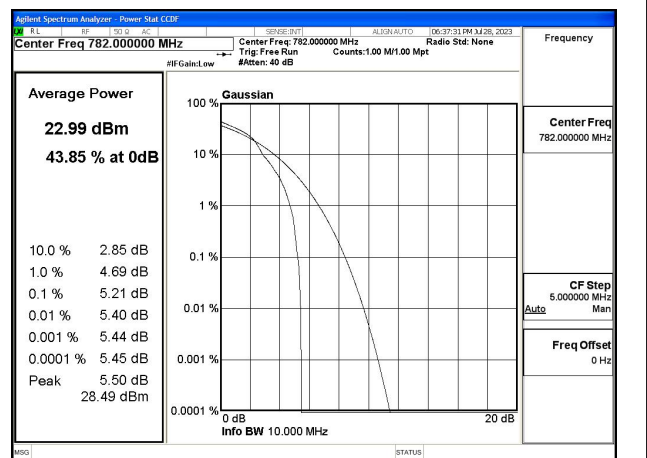


Fig.14

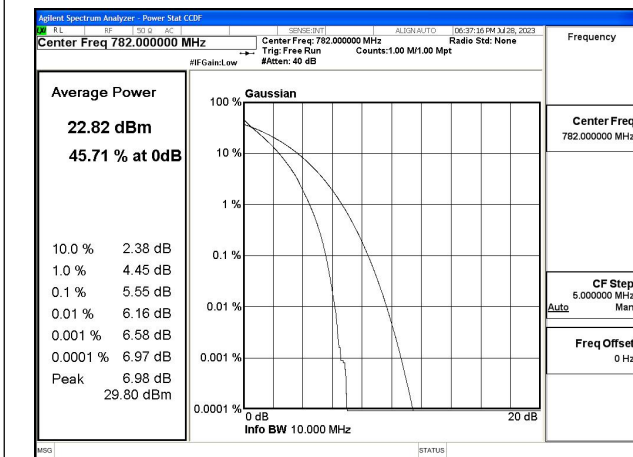


Fig.15

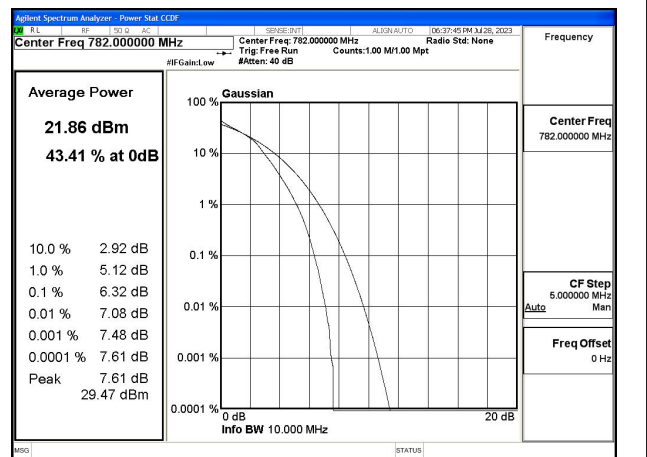


Fig.16

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
13	782	23230	10	1	0	Fig.1
13	782	23230	10	1	0	Fig.2
13	782	23230	10	1	0	Fig.3

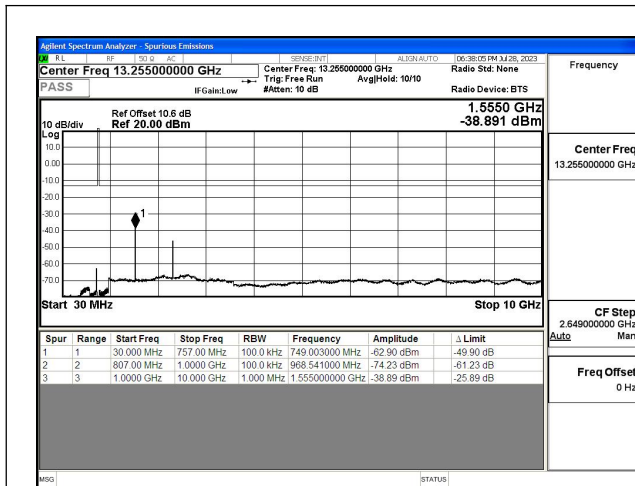


Fig.1

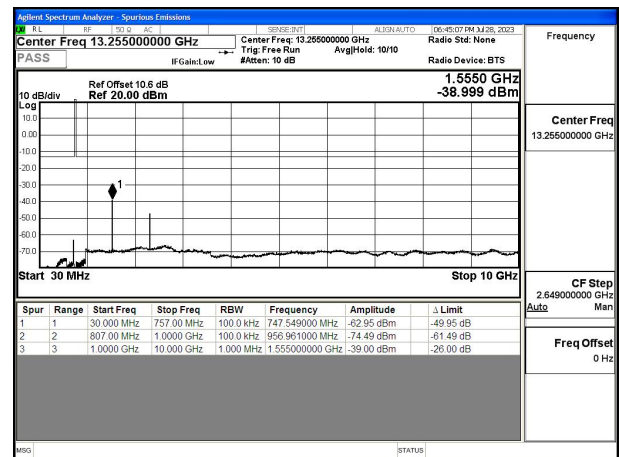


Fig.2

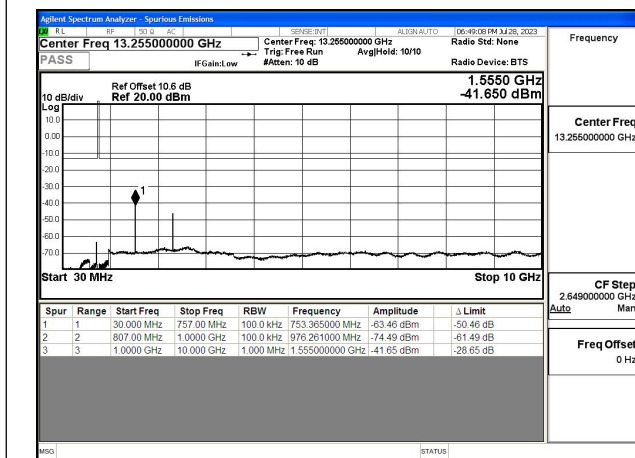


Fig.3

6 Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
13	QPSK	779.5	23205	5	1	0	Fig.1
13	QPSK	779.5	23205	5	1	0	Fig.2
13	QPSK	779.5	23205	5	25	0	Fig.3
13	QPSK	779.5	23205	5	25	0	Fig.4
13	QPSK	784.5	23255	5	1	24	Fig.5
13	QPSK	784.5	23255	5	1	24	Fig.6
13	QPSK	784.5	23255	5	25	0	Fig.7
13	QPSK	784.5	23255	5	25	0	Fig.8
13	QPSK	782	23230	10	1	0	Fig.9
13	QPSK	782	23230	10	1	0	Fig.10
13	QPSK	782	23230	10	50	0	Fig.11
13	QPSK	782	23230	10	50	0	Fig.12
13	QPSK	782	23230	10	1	49	Fig.13
13	QPSK	782	23230	10	1	49	Fig.14
13	QPSK	782	23230	10	50	0	Fig.15
13	QPSK	782	23230	10	50	0	Fig.16

Test Mode: QPSK

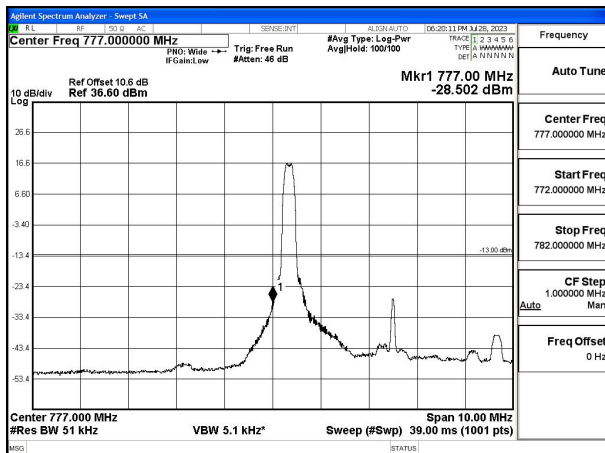


Fig.1

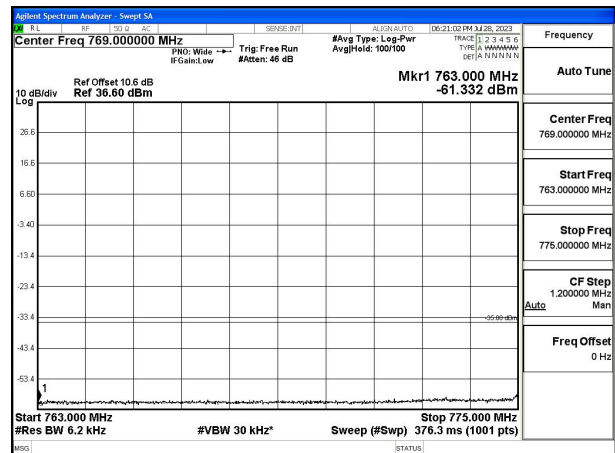


Fig.2

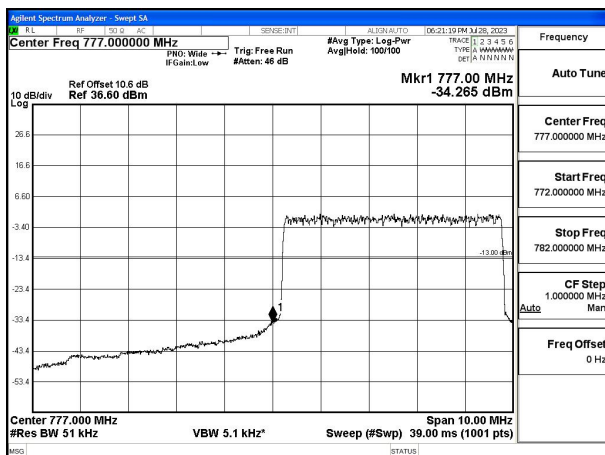


Fig.3

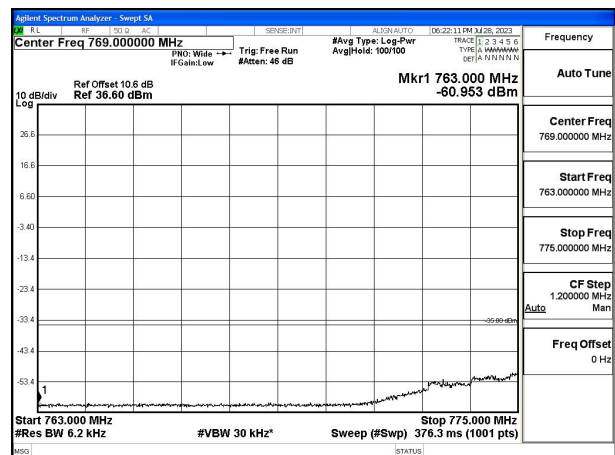


Fig.4

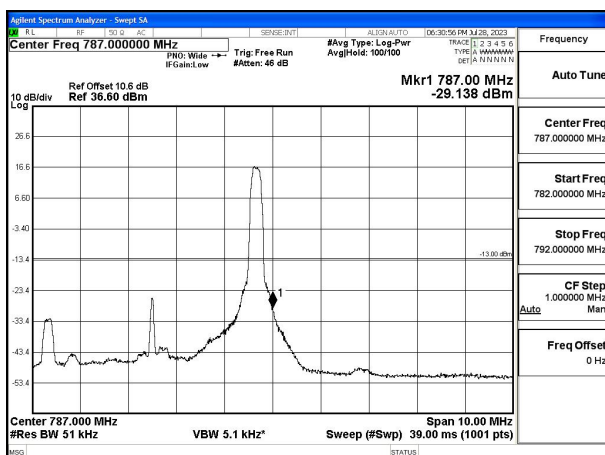


Fig.5

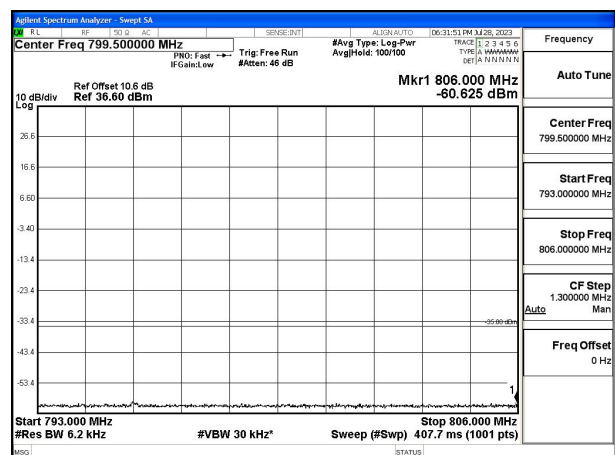


Fig.6

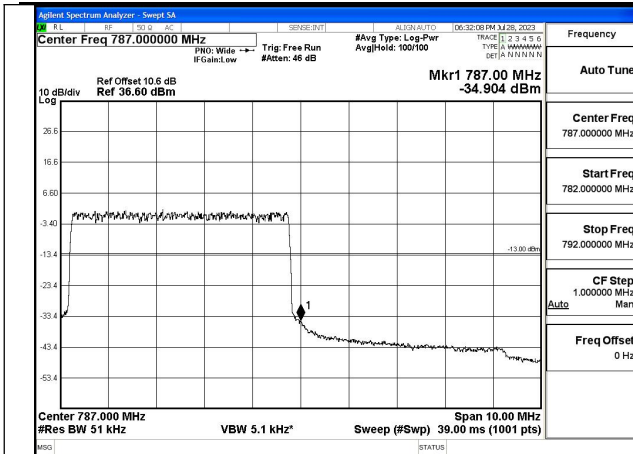


Fig.7

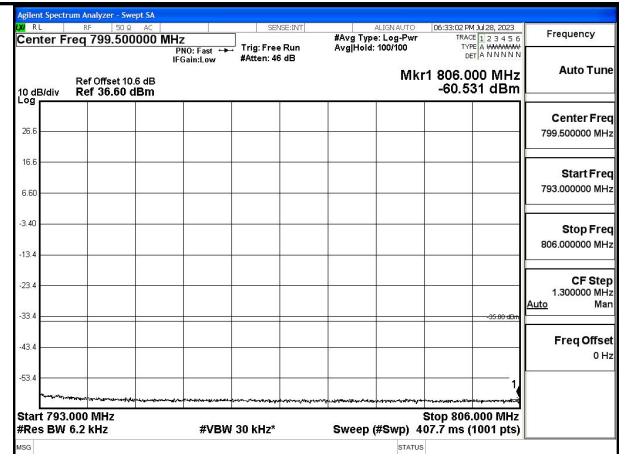


Fig.8

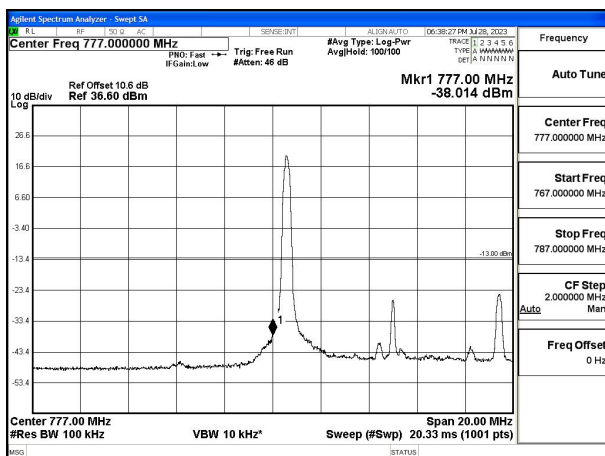


Fig.9

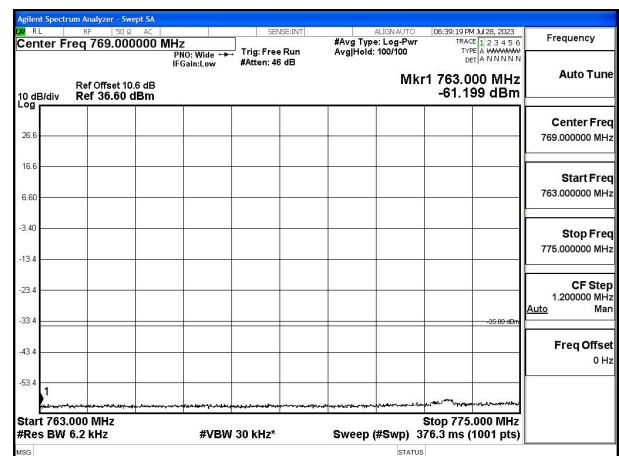


Fig.10

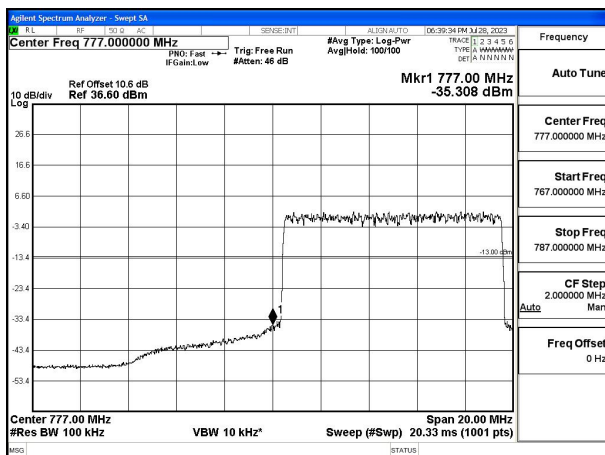


Fig.11

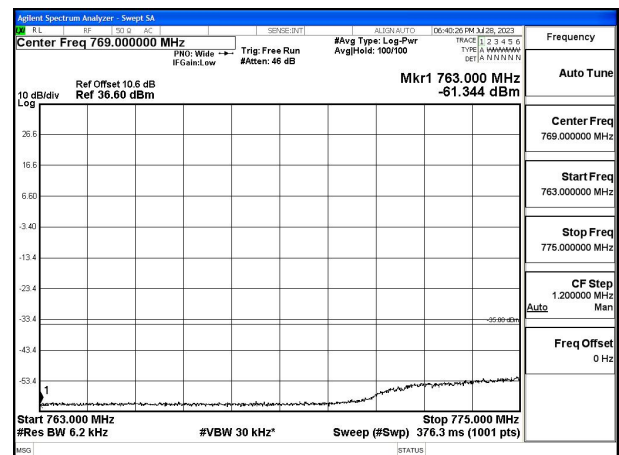


Fig.12