



REPORT No.: SZ24050224W06

TEST REPORT

APPLICANT : Horizon Powered USA Inc.

PRODUCT NAME : 5G Wi-Fi6 AX5400 CPE

MODEL NAME : HZ51

BRAND NAME : Horizon

FCC ID : 2BE94HZ51

STANDARD(S) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 96

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Change History		
Version	Date	Reason for change
1.0	2024-11-25	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Horizon Powered USA Inc.
Applicant Address:	8350 NW 52nd Terrace, Suite 301 Miami, Florida 33166 United States
Manufacturer:	Horizon Powered USA Inc.
Manufacturer Address:	8350 NW 52nd Terrace, Suite 301 Miami, Florida 33166 United States

1.2. Equipment Under Test (EUT) Description

Product Name:	5G Wi-Fi6 AX5400 CPE	
Hardware Version:	V10C	
Software Version:	V1.0.1	
Sample No.:	3#	
Single Band:	n2, n5, n7, n12, n25, n41, n48, n66, n70, n71, n77, n78	
SA UL MIMO Band:	n41, n77 n78	
ENDC Band:	n2, n5, n7, n12, n25, n41, n48, n66, n70, n71, n77, n78	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
Power Class:	PC2:	n41, n77, n78
	PC3:	n2, n5, n7, n12, n25, n41, n48, n66, n70, n71, n77, n78
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n7	Tx: 2500MHz-2570MHz
		Rx: 2620MHz-2690MHz
	n12	Tx: 699MHz-716MHz
		Rx: 729MHz-746MHz
	n25	Tx: 1850MHz-1915MHz
		Rx: 1930MHz-1995MHz
	n41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz



	n48	Tx:3550 MHz–3700 MHz
		Rx:3550 MHz–3700 MHz
	n66	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	n70	Tx: 1695MHz-1710MHz
		Rx: 1995MHz-2020MHz
	n71	Tx: 663MHz-698MHz
		Rx: 617MHz-652MHz
	n77	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
	n78	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3800MHz
		Rx: 3700MHz-3800MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n7	5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz
	n12	5MHz, 10MHz, 15MHz
	n25	5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz
	n41	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
	n48	10MHz, 20MHz, 30MHz, 40MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz
	n70	5MHz, 10MHz, 15MHz
	n71	5MHz, 10MHz, 15MHz, 20MHz
	n77	10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
	n78	10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	Fixed Internal	
Antenna Gain:	n2	3.16dBi
	n5	0.80 dBi
	n7	2.86 dBi
	n12	0.84 dBi
	n25	3.16 dBi
	n41	3.46 dBi



	n48	3.41 dBi
	n66	3.17 dBi
	n70	3.27 dBi
	n71	0.69 dBi
	n77	3.38 dBi
	n78	3.38 dBi
Accessory Information:	AC Adapter	
	Brand Name:	N/A
	Model No.:	KA36B-1203000US
	Serial No.:	N/A
	Rated Input:	100-240V~50/60HZ, 1A
	Rated Output:	12V=3A
	Manufacturer :	Shenzhen Keyu Power Supply Technology Co., Ltd.

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 3: The test results of all conducted test items please refer to the module FCC test report (Report No.: 2204RSU037-U6 / 2204RSU037-U7 / 2204RSU037-U8 / 2204RSU037-U9 / 2209RSU052-U1), which issued on Aug. 07, 2022 by MRT Technology (Suzhou) Co., Ltd. This report have updated the output power (only for n48/n77/n78), added the test results for n70, and recording the radiation test results for each frequency band.

1.3. Maximum ERP/EIRP and Emission Designator

EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

ERP (dBm) = EIPR (dBm) - 2.15

Test Band	Channel Bandwidth (MHz)	Modulation	Output Power (dBm)	EIRP (dBm)	EIRP(W)	Limit (dBm)
n2	20	DFT-s OFDM BPSK	23.96	27.12	0.515	<33.01
n2	15	DFT-s OFDM BPSK	23.91	27.07	0.509	<33.01
n2	10	DFT-s OFDM BPSK	23.75	26.91	0.491	<33.01
n2	5	DFT-s OFDM BPSK	23.74	26.9	0.490	<33.01
n2	20	DFT-s OFDM QPSK	23.99	27.15	0.519	<33.01
n2	15	DFT-s OFDM QPSK	24.02	27.18	0.522	<33.01
n2	10	DFT-s OFDM QPSK	23.89	27.05	0.507	<33.01
n2	5	DFT-s OFDM QPSK	24.03	27.19	0.524	<33.01
n2	20	DFT-s OFDM 16QAM	23.64	26.8	0.479	<33.01
n2	15	DFT-s OFDM 16QAM	23.53	26.69	0.467	<33.01
n2	10	DFT-s OFDM 16QAM	23.19	26.35	0.432	<33.01
n2	5	DFT-s OFDM 16QAM	23.50	26.66	0.463	<33.01
n2	20	DFT-s OFDM 64QAM	22.06	25.22	0.333	<33.01
n2	15	DFT-s OFDM 64QAM	22.04	25.2	0.331	<33.01
n2	10	DFT-s OFDM 64QAM	22.13	25.29	0.338	<33.01
n2	5	DFT-s OFDM 64QAM	21.96	25.12	0.325	<33.01
n2	20	DFT-s OFDM 256QAM	19.88	23.04	0.201	<33.01
n2	15	DFT-s OFDM 256QAM	19.89	23.05	0.202	<33.01



n2	10	DFT-s OFDM 256QAM	19.69	22.85	0.193	<33.01
n2	5	DFT-s OFDM 256QAM	19.67	22.83	0.192	<33.01
n2	20	CP-OFDM QPSK	22.44	25.6	0.363	<33.01
n2	15	CP-OFDM QPSK	23.13	26.29	0.426	<33.01
n2	10	CP-OFDM QPSK	23.04	26.2	0.417	<33.01
n2	5	CP-OFDM QPSK	23.16	26.32	0.429	<33.01
n2	20	CP-OFDM 16QAM	22.35	25.51	0.356	<33.01
n2	15	CP-OFDM 16QAM	22.40	25.56	0.360	<33.01
n2	10	CP-OFDM 16QAM	22.54	25.7	0.372	<33.01
n2	5	CP-OFDM 16QAM	22.40	25.56	0.360	<33.01
n2	20	CP-OFDM 64QAM	21.02	24.18	0.262	<33.01
n2	15	CP-OFDM 64QAM	21.03	24.19	0.262	<33.01
n2	10	CP-OFDM 64QAM	21.08	24.24	0.265	<33.01
n2	5	CP-OFDM 64QAM	21.02	24.18	0.262	<33.01
n2	20	CP-OFDM 256QAM	18.14	21.3	0.135	<33.01
n2	15	CP-OFDM 256QAM	17.90	21.06	0.128	<33.01
n2	10	CP-OFDM 256QAM	17.64	20.8	0.120	<33.01
n2	5	CP-OFDM 256QAM	17.87	21.03	0.127	<33.01
n5	20	DFT-s OFDM BPSK	23.63	22.28	0.169	<38.45
n5	15	DFT-s OFDM BPSK	23.66	22.31	0.170	<38.45
n5	10	DFT-s OFDM BPSK	23.47	22.12	0.163	<38.45

n5	5	DFT-s OFDM BPSK	23.42	22.07	0.161	<38.45
n5	20	DFT-s OFDM QPSK	23.78	22.43	0.175	<38.45
n5	15	DFT-s OFDM QPSK	23.82	22.47	0.177	<38.45
n5	10	DFT-s OFDM QPSK	23.50	22.15	0.164	<38.45
n5	5	DFT-s OFDM QPSK	23.58	22.23	0.167	<38.45
n5	20	DFT-s OFDM 16QAM	23.91	22.56	0.180	<38.45
n5	15	DFT-s OFDM 16QAM	23.79	22.44	0.175	<38.45
n5	10	DFT-s OFDM 16QAM	23.64	22.29	0.169	<38.45
n5	5	DFT-s OFDM 16QAM	23.68	22.33	0.171	<38.45
n5	20	DFT-s OFDM 64QAM	22.36	21.01	0.126	<38.45
n5	15	DFT-s OFDM 64QAM	22.32	20.97	0.125	<38.45
n5	10	DFT-s OFDM 64QAM	22.18	20.83	0.121	<38.45
n5	5	DFT-s OFDM 64QAM	22.21	20.86	0.122	<38.45
n5	20	DFT-s OFDM 256QAM	20.06	18.71	0.074	<38.45
n5	15	DFT-s OFDM 256QAM	20.08	18.73	0.075	<38.45
n5	10	DFT-s OFDM 256QAM	19.91	18.56	0.072	<38.45
n5	5	DFT-s OFDM 256QAM	19.91	18.56	0.072	<38.45
n5	20	CP-OFDM QPSK	23.35	22.00	0.158	<38.45
n5	15	CP-OFDM QPSK	23.34	21.99	0.158	<38.45
n5	10	CP-OFDM QPSK	23.16	21.81	0.152	<38.45
n5	5	CP-OFDM QPSK	23.14	21.79	0.151	<38.45
n5	20	CP-OFDM 16QAM	22.81	21.46	0.140	<38.45
n5	15	CP-OFDM 16QAM	22.70	21.35	0.136	<38.45
n5	10	CP-OFDM 16QAM	22.56	21.21	0.132	<38.45
n5	5	CP-OFDM 16QAM	22.68	21.33	0.136	<38.45



n5	20	CP-OFDM 64QAM	21.16	19.81	0.096	<38.45
n5	15	CP-OFDM 64QAM	21.39	20.04	0.101	<38.45
n5	10	CP-OFDM 64QAM	21.00	19.65	0.092	<38.45
n5	5	CP-OFDM 64QAM	21.33	19.98	0.100	<38.45
n5	20	CP-OFDM 256QAM	18.31	16.96	0.050	<38.45
n5	15	CP-OFDM 256QAM	18.10	16.75	0.047	<38.45
n5	10	CP-OFDM 256QAM	17.93	16.58	0.045	<38.45
n5	5	CP-OFDM 256QAM	18.05	16.70	0.047	<38.45
n7	40	DFT-s OFDM BPSK	24.34	27.2	0.525	<33.01
n7	30	DFT-s OFDM BPSK	24.34	27.2	0.525	<33.01
n7	25	DFT-s OFDM BPSK	24.55	27.41	0.551	<33.01
n7	20	DFT-s OFDM BPSK	24.49	27.35	0.543	<33.01
n7	15	DFT-s OFDM BPSK	24.51	27.37	0.546	<33.01
n7	10	DFT-s OFDM BPSK	24.36	27.22	0.527	<33.01
n7	5	DFT-s OFDM BPSK	24.31	27.17	0.521	<33.01
n7	40	DFT-s OFDM QPSK	24.51	27.37	0.546	<33.01
n7	30	DFT-s OFDM QPSK	24.47	27.33	0.541	<33.01
n7	25	DFT-s OFDM QPSK	24.69	27.55	0.569	<33.01
n7	20	DFT-s OFDM QPSK	24.64	27.5	0.562	<33.01
n7	15	DFT-s OFDM QPSK	24.63	27.49	0.561	<33.01
n7	10	DFT-s OFDM QPSK	24.55	27.41	0.551	<33.01
n7	5	DFT-s OFDM QPSK	24.53	27.39	0.548	<33.01
n7	40	DFT-s OFDM 16QAM	24.65	27.51	0.564	<33.01
n7	30	DFT-s OFDM 16QAM	24.54	27.4	0.550	<33.01
n7	25	DFT-s OFDM 16QAM	24.36	27.22	0.527	<33.01
n7	20	DFT-s OFDM 16QAM	24.70	27.56	0.570	<33.01
n7	15	DFT-s OFDM 16QAM	24.78	27.64	0.581	<33.01



n7	10	DFT-s OFDM 16QAM	24.39	27.25	0.531	<33.01
n7	5	DFT-s OFDM 16QAM	24.33	27.19	0.524	<33.01
n7	40	DFT-s OFDM 64QAM	23.06	25.92	0.391	<33.01
n7	30	DFT-s OFDM 64QAM	23.17	26.03	0.401	<33.01
n7	25	DFT-s OFDM 64QAM	22.90	25.76	0.377	<33.01
n7	20	DFT-s OFDM 64QAM	23.25	26.11	0.408	<33.01
n7	15	DFT-s OFDM 64QAM	23.24	26.1	0.407	<33.01
n7	10	DFT-s OFDM 64QAM	22.95	25.81	0.381	<33.01
n7	5	DFT-s OFDM 64QAM	23.08	25.94	0.393	<33.01
n7	40	DFT-s OFDM 256QAM	21.01	23.87	0.244	<33.01
n7	30	DFT-s OFDM 256QAM	21.05	23.91	0.246	<33.01
n7	25	DFT-s OFDM 256QAM	21.09	23.95	0.248	<33.01
n7	20	DFT-s OFDM 256QAM	21.13	23.99	0.251	<33.01
n7	15	DFT-s OFDM 256QAM	21.18	24.04	0.254	<33.01
n7	10	DFT-s OFDM 256QAM	21.04	23.9	0.245	<33.01
n7	5	DFT-s OFDM 256QAM	20.97	23.83	0.242	<33.01
n7	40	CP-OFDM QPSK	24.00	26.86	0.485	<33.01
n7	30	CP-OFDM QPSK	24.05	26.91	0.491	<33.01
n7	25	CP-OFDM QPSK	23.95	26.81	0.480	<33.01
n7	20	CP-OFDM QPSK	24.19	27.05	0.507	<33.01
n7	15	CP-OFDM QPSK	24.23	27.09	0.512	<33.01
n7	10	CP-OFDM QPSK	23.78	26.64	0.461	<33.01
n7	5	CP-OFDM QPSK	23.94	26.8	0.479	<33.01
n7	40	CP-OFDM 16QAM	23.53	26.39	0.436	<33.01
n7	30	CP-OFDM 16QAM	23.44	26.3	0.427	<33.01
n7	25	CP-OFDM 16QAM	23.56	26.42	0.439	<33.01
n7	20	CP-OFDM 16QAM	23.67	26.53	0.450	<33.01
n7	15	CP-OFDM 16QAM	23.60	26.46	0.443	<33.01
n7	10	CP-OFDM 16QAM	23.53	26.39	0.436	<33.01

n7	5	CP-OFDM 16QAM	23.54	26.4	0.437	<33.01
n7	40	CP-OFDM 64QAM	22.02	24.88	0.308	<33.01
n7	30	CP-OFDM 64QAM	22.07	24.93	0.311	<33.01
n7	25	CP-OFDM 64QAM	22.19	25.05	0.320	<33.01
n7	20	CP-OFDM 64QAM	22.11	24.97	0.314	<33.01
n7	15	CP-OFDM 64QAM	22.07	24.93	0.311	<33.01
n7	10	CP-OFDM 64QAM	22.12	24.98	0.315	<33.01
n7	5	CP-OFDM 64QAM	22.02	24.88	0.308	<33.01
n7	15	CP-OFDM 256QAM	19.00	21.86	0.153	<33.01
n7	10	CP-OFDM 256QAM	19.05	21.91	0.155	<33.01
n7	5	CP-OFDM 256QAM	19.33	22.19	0.166	<33.01
n7	20	CP-OFDM 256QAM	19.12	21.98	0.158	<33.01
n7	15	CP-OFDM 256QAM	19.15	22.01	0.159	<33.01
n7	10	CP-OFDM 256QAM	18.98	21.84	0.153	<33.01
n7	5	CP-OFDM 256QAM	19.15	22.01	0.159	<33.01
n12	15	DFT-s OFDM BPSK	23.40	22.09	0.162	<34.77
n12	10	DFT-s OFDM BPSK	23.26	21.95	0.157	<34.77
n12	5	DFT-s OFDM BPSK	23.21	21.90	0.155	<34.77
n12	15	DFT-s OFDM QPSK	23.54	22.23	0.167	<34.77
n12	10	DFT-s OFDM QPSK	23.47	22.16	0.164	<34.77
n12	5	DFT-s OFDM QPSK	23.48	22.17	0.165	<34.77
n12	15	DFT-s OFDM 16QAM	23.50	22.19	0.166	<34.77
n12	10	DFT-s OFDM 16QAM	23.43	22.12	0.163	<34.77

n12	5	DFT-s OFDM 16QAM	23.44	22.13	0.163	<34.77
n12	15	DFT-s OFDM 64QAM	19.68	18.37	0.069	<34.77
n12	10	DFT-s OFDM 64QAM	21.89	20.58	0.114	<34.77
n12	5	DFT-s OFDM 64QAM	21.90	20.59	0.115	<34.77
n12	15	DFT-s OFDM 256QAM	19.83	18.52	0.071	<34.77
n12	10	DFT-s OFDM 256QAM	19.69	18.38	0.069	<34.77
n12	5	DFT-s OFDM 256QAM	19.70	18.39	0.069	<34.77
n12	15	CP-OFDM QPSK	22.91	21.60	0.145	<34.77
n12	10	CP-OFDM QPSK	22.89	21.58	0.144	<34.77
n12	5	CP-OFDM QPSK	22.87	21.56	0.143	<34.77
n12	15	CP-OFDM 16QAM	22.47	21.16	0.131	<34.77
n12	10	CP-OFDM 16QAM	22.40	21.09	0.129	<34.77
n12	5	CP-OFDM 16QAM	22.36	21.05	0.127	<34.77
n12	15	CP-OFDM 64QAM	20.83	19.52	0.090	<34.77
n12	10	CP-OFDM 64QAM	20.95	19.64	0.092	<34.77
n12	5	CP-OFDM 64QAM	20.85	19.54	0.090	<34.77
n12	15	CP-OFDM 256QAM	17.86	16.55	0.045	<34.77
n12	10	CP-OFDM 256QAM	17.68	16.37	0.043	<34.77
n12	5	CP-OFDM 256QAM	17.86	16.55	0.045	<34.77
n25	40	DFT-s OFDM BPSK	23.17	26.33	0.430	<33.01
n25	30	DFT-s OFDM BPSK	23.21	26.37	0.434	<33.01
n25	25	DFT-s OFDM BPSK	23.05	26.21	0.418	<33.01
n25	20	DFT-s OFDM BPSK	23.23	26.39	0.436	<33.01
n25	15	DFT-s OFDM BPSK	23.26	26.42	0.439	<33.01
n25	10	DFT-s OFDM BPSK	23.11	26.27	0.424	<33.01
n25	5	DFT-s OFDM BPSK	23.11	26.27	0.424	<33.01
n25	40	DFT-s OFDM QPSK	23.18	26.34	0.431	<33.01
n25	30	DFT-s OFDM QPSK	23.23	26.39	0.436	<33.01
n25	25	DFT-s OFDM QPSK	23.06	26.22	0.419	<33.01
n25	20	DFT-s OFDM QPSK	23.15	26.31	0.428	<33.01
n25	15	DFT-s OFDM QPSK	23.25	26.41	0.438	<33.01



n25	10	DFT-s OFDM QPSK	23.05	26.21	0.418	<33.01
n25	5	DFT-s OFDM QPSK	23.06	26.22	0.419	<33.01
n25	40	DFT-s OFDM 16QAM	22.62	25.78	0.378	<33.01
n25	30	DFT-s OFDM 16QAM	22.65	25.81	0.381	<33.01
n25	25	DFT-s OFDM 16QAM	22.47	25.63	0.366	<33.01
n25	20	DFT-s OFDM 16QAM	22.72	25.88	0.387	<33.01
n25	15	DFT-s OFDM 16QAM	22.75	25.91	0.390	<33.01
n25	10	DFT-s OFDM 16QAM	22.54	25.7	0.372	<33.01
n25	5	DFT-s OFDM 16QAM	22.58	25.74	0.375	<33.01
n25	40	DFT-s OFDM 64QAM	21.28	24.44	0.278	<33.01
n25	30	DFT-s OFDM 64QAM	21.20	24.36	0.273	<33.01
n25	25	DFT-s OFDM 64QAM	21.19	24.35	0.272	<33.01
n25	20	DFT-s OFDM 64QAM	21.47	24.63	0.290	<33.01
n25	15	DFT-s OFDM 64QAM	21.23	24.39	0.275	<33.01
n25	10	DFT-s OFDM 64QAM	21.34	24.5	0.282	<33.01
n25	5	DFT-s OFDM 64QAM	21.41	24.57	0.286	<33.01
n25	40	DFT-s OFDM 256QAM	19.24	22.4	0.174	<33.01
n25	30	DFT-s OFDM 256QAM	19.22	22.38	0.173	<33.01
n25	25	DFT-s OFDM 256QAM	18.99	22.15	0.164	<33.01
n25	20	DFT-s OFDM 256QAM	19.18	22.34	0.171	<33.01
n25	15	DFT-s OFDM 256QAM	19.17	22.33	0.171	<33.01
n25	10	DFT-s OFDM 256QAM	19.07	22.23	0.167	<33.01
n25	5	DFT-s OFDM 256QAM	19.07	22.23	0.167	<33.01
n25	40	CP-OFDM QPSK	22.17	25.33	0.341	<33.01
n25	30	CP-OFDM QPSK	22.12	25.28	0.337	<33.01
n25	25	CP-OFDM QPSK	21.97	25.13	0.326	<33.01
n25	20	CP-OFDM QPSK	22.19	25.35	0.343	<33.01
n25	15	CP-OFDM QPSK	22.16	25.32	0.340	<33.01
n25	10	CP-OFDM QPSK	22.08	25.24	0.334	<33.01
n25	5	CP-OFDM QPSK	22.09	25.25	0.335	<33.01
n25	40	CP-OFDM 16QAM	21.65	24.81	0.303	<33.01
n25	30	CP-OFDM 16QAM	21.66	24.82	0.303	<33.01
n25	25	CP-OFDM 16QAM	21.65	24.81	0.303	<33.01
n25	20	CP-OFDM 16QAM	21.92	25.08	0.322	<33.01
n25	15	CP-OFDM 16QAM	21.84	25	0.316	<33.01
n25	10	CP-OFDM 16QAM	21.55	24.71	0.296	<33.01
n25	5	CP-OFDM 16QAM	21.65	24.81	0.303	<33.01
n25	40	CP-OFDM 64QAM	20.19	23.35	0.216	<33.01
n25	30	CP-OFDM 64QAM	20.21	23.37	0.217	<33.01
n25	25	CP-OFDM 64QAM	20.03	23.19	0.208	<33.01
n25	20	CP-OFDM 64QAM	20.24	23.4	0.219	<33.01
n25	15	CP-OFDM 64QAM	20.33	23.49	0.223	<33.01
n25	10	CP-OFDM 64QAM	20.15	23.31	0.214	<33.01



n25	5	CP-OFDM 64QAM	20.16	23.32	0.215	<33.01
n25	15	CP-OFDM 256QAM	17.39	20.55	0.114	<33.01
n25	10	CP-OFDM 256QAM	17.13	20.29	0.107	<33.01
n25	5	CP-OFDM 256QAM	17.28	20.44	0.111	<33.01
n25	20	CP-OFDM 256QAM	17.26	20.42	0.110	<33.01
n25	15	CP-OFDM 256QAM	17.03	20.19	0.104	<33.01
n25	10	CP-OFDM 256QAM	17.08	20.24	0.106	<33.01
n25	5	CP-OFDM 256QAM	17.28	20.44	0.111	<33.01
n41	100	DFT-s OFDM BPSK	27.36	30.82	1.208	<33.01
n41	90	DFT-s OFDM BPSK	27.39	30.85	1.216	<33.01
n41	80	DFT-s OFDM BPSK	27.29	30.75	1.189	<33.01
n41	70	DFT-s OFDM BPSK	27.19	30.65	1.161	<33.01
n41	60	DFT-s OFDM BPSK	27.37	30.83	1.211	<33.01
n41	50	DFT-s OFDM BPSK	27.51	30.97	1.250	<33.01
n41	40	DFT-s OFDM BPSK	27.74	31.2	1.318	<33.01
n41	30	DFT-s OFDM BPSK	27.65	31.11	1.291	<33.01
n41	20	DFT-s OFDM BPSK	27.60	31.06	1.276	<33.01
n41	100	DFT-s OFDM QPSK	27.49	30.95	1.245	<33.01
n41	90	DFT-s OFDM QPSK	27.35	30.81	1.205	<33.01
n41	80	DFT-s OFDM QPSK	27.34	30.8	1.202	<33.01
n41	70	DFT-s OFDM QPSK	27.20	30.66	1.164	<33.01
n41	60	DFT-s OFDM QPSK	27.41	30.87	1.222	<33.01
n41	50	DFT-s OFDM QPSK	27.46	30.92	1.236	<33.01
n41	40	DFT-s OFDM QPSK	27.83	31.29	1.346	<33.01
n41	30	DFT-s OFDM QPSK	27.82	31.28	1.343	<33.01
n41	20	DFT-s OFDM QPSK	27.53	30.99	1.256	<33.01
n41	100	DFT-s OFDM 16QAM	26.43	29.89	0.975	<33.01
n41	90	DFT-s OFDM 16QAM	26.40	29.86	0.968	<33.01
n41	80	DFT-s OFDM 16QAM	26.29	29.75	0.944	<33.01
n41	70	DFT-s OFDM 16QAM	26.24	29.7	0.933	<33.01
n41	60	DFT-s OFDM 16QAM	26.45	29.91	0.979	<33.01
n41	50	DFT-s OFDM 16QAM	26.41	29.87	0.971	<33.01
n41	40	DFT-s OFDM 16QAM	26.71	30.17	1.040	<33.01
n41	30	DFT-s OFDM 16QAM	26.75	30.21	1.050	<33.01
n41	20	DFT-s OFDM 16QAM	26.55	30.01	1.002	<33.01
n41	100	DFT-s OFDM 64QAM	24.98	28.44	0.698	<33.01
n41	90	DFT-s OFDM 64QAM	25.03	28.49	0.706	<33.01
n41	80	DFT-s OFDM 64QAM	25.04	28.5	0.708	<33.01
n41	70	DFT-s OFDM 64QAM	25.66	29.12	0.817	<33.01
n41	60	DFT-s OFDM 64QAM	25.12	28.58	0.721	<33.01
n41	50	DFT-s OFDM 64QAM	25.17	28.63	0.729	<33.01
n41	40	DFT-s OFDM 64QAM	25.43	28.89	0.774	<33.01
n41	30	DFT-s OFDM 64QAM	25.43	28.89	0.774	<33.01



n41	20	DFT-s OFDM 64QAM	25.27	28.73	0.746	<33.01
n41	100	DFT-s OFDM 256QAM	22.63	26.09	0.406	<33.01
n41	90	DFT-s OFDM 256QAM	22.63	26.09	0.406	<33.01
n41	80	DFT-s OFDM 256QAM	22.59	26.05	0.403	<33.01
n41	70	DFT-s OFDM 256QAM	22.74	26.2	0.417	<33.01
n41	60	DFT-s OFDM 256QAM	22.88	26.34	0.431	<33.01
n41	50	DFT-s OFDM 256QAM	22.77	26.23	0.420	<33.01
n41	40	DFT-s OFDM 256QAM	22.95	26.41	0.438	<33.01
n41	30	DFT-s OFDM 256QAM	23.03	26.49	0.446	<33.01
n41	20	DFT-s OFDM 256QAM	22.98	26.44	0.441	<33.01
n41	100	CP-OFDM QPSK	25.80	29.26	0.843	<33.01
n41	90	CP-OFDM QPSK	25.87	29.33	0.857	<33.01
n41	80	CP-OFDM QPSK	25.93	29.39	0.869	<33.01
n41	70	CP-OFDM QPSK	26.62	30.08	1.019	<33.01
n41	60	CP-OFDM QPSK	25.82	29.28	0.847	<33.01
n41	50	CP-OFDM QPSK	25.97	29.43	0.877	<33.01
n41	40	CP-OFDM QPSK	26.28	29.74	0.942	<33.01
n41	30	CP-OFDM QPSK	26.22	29.68	0.929	<33.01
n41	20	CP-OFDM QPSK	26.04	29.5	0.891	<33.01
n41	100	CP-OFDM 16QAM	25.39	28.85	0.767	<33.01
n41	90	CP-OFDM 16QAM	25.41	28.87	0.771	<33.01
n41	80	CP-OFDM 16QAM	25.41	28.87	0.771	<33.01
n41	70	CP-OFDM 16QAM	24.90	28.36	0.685	<33.01
n41	60	CP-OFDM 16QAM	25.40	28.86	0.769	<33.01
n41	50	CP-OFDM 16QAM	25.54	29	0.794	<33.01
n41	40	CP-OFDM 16QAM	25.76	29.22	0.836	<33.01
n41	30	CP-OFDM 16QAM	25.72	29.18	0.828	<33.01
n41	20	CP-OFDM 16QAM	25.62	29.08	0.809	<33.01
n41	100	CP-OFDM 64QAM	23.98	27.44	0.555	<33.01
n41	90	CP-OFDM 64QAM	24.04	27.5	0.562	<33.01
n41	80	CP-OFDM 64QAM	23.73	27.19	0.524	<33.01
n41	70	CP-OFDM 64QAM	23.41	26.87	0.486	<33.01
n41	60	CP-OFDM 64QAM	24.04	27.5	0.562	<33.01
n41	50	CP-OFDM 64QAM	23.99	27.45	0.556	<33.01
n41	40	CP-OFDM 64QAM	24.22	27.68	0.586	<33.01
n41	30	CP-OFDM 64QAM	24.25	27.71	0.590	<33.01
n41	20	CP-OFDM 64QAM	24.19	27.65	0.582	<33.01
n41	100	CP-OFDM 256QAM	20.65	24.11	0.258	<33.01
n41	90	CP-OFDM 256QAM	20.81	24.27	0.267	<33.01
n41	80	CP-OFDM 256QAM	20.74	24.2	0.263	<33.01
n41	70	CP-OFDM 256QAM	22.28	25.74	0.375	<33.01
n41	60	CP-OFDM 256QAM	20.81	24.27	0.267	<33.01
n41	50	CP-OFDM 256QAM	20.90	24.36	0.273	<33.01



n41	40	CP-OFDM 256QAM	21.18	24.64	0.291	<33.01
n41	30	CP-OFDM 256QAM	21.08	24.54	0.284	<33.01
n41	20	CP-OFDM 256QAM	21.02	24.48	0.281	<33.01
n66	40	DFT-s OFDM BPSK	23.98	27.15	0.519	<33.01
n66	30	DFT-s OFDM BPSK	24.05	27.22	0.527	<33.01
n66	20	DFT-s OFDM BPSK	24.03	27.2	0.525	<33.01
n66	15	DFT-s OFDM BPSK	24	27.17	0.521	<33.01
n66	10	DFT-s OFDM BPSK	23.93	27.1	0.513	<33.01
n66	5	DFT-s OFDM BPSK	24	27.17	0.521	<33.01
n66	40	DFT-s OFDM QPSK	24.13	27.3	0.537	<33.01
n66	30	DFT-s OFDM QPSK	24.16	27.33	0.541	<33.01
n66	20	DFT-s OFDM QPSK	24.21	27.38	0.547	<33.01
n66	15	DFT-s OFDM QPSK	24.23	27.4	0.550	<33.01
n66	10	DFT-s OFDM QPSK	24.15	27.32	0.540	<33.01
n66	5	DFT-s OFDM QPSK	24.08	27.25	0.531	<33.01
n66	40	DFT-s OFDM 16QAM	23.71	26.88	0.488	<33.01
n66	30	DFT-s OFDM 16QAM	23.69	26.86	0.485	<33.01
n66	20	DFT-s OFDM 16QAM	23.77	26.94	0.494	<33.01
n66	15	DFT-s OFDM 16QAM	23.77	26.94	0.494	<33.01
n66	10	DFT-s OFDM 16QAM	23.66	26.83	0.482	<33.01
n66	5	DFT-s OFDM 16QAM	23.66	26.83	0.482	<33.01
n66	40	DFT-s OFDM 64QAM	22.25	25.42	0.348	<33.01
n66	30	DFT-s OFDM 64QAM	22.18	25.35	0.343	<33.01
n66	20	DFT-s OFDM 64QAM	22.33	25.5	0.355	<33.01
n66	15	DFT-s OFDM 64QAM	22.35	25.52	0.356	<33.01
n66	10	DFT-s OFDM 64QAM	22.15	25.32	0.340	<33.01
n66	5	DFT-s OFDM 64QAM	22.11	25.28	0.337	<33.01
n66	40	DFT-s OFDM 256QAM	19.97	23.14	0.206	<33.01
n66	30	DFT-s OFDM 256QAM	20.03	23.2	0.209	<33.01
n66	20	DFT-s OFDM 256QAM	19.91	23.08	0.203	<33.01
n66	15	DFT-s OFDM 256QAM	19.91	23.08	0.203	<33.01
n66	10	DFT-s OFDM 256QAM	19.9	23.07	0.203	<33.01
n66	5	DFT-s OFDM 256QAM	19.8	22.97	0.198	<33.01
n66	40	CP-OFDM QPSK	23.38	26.55	0.452	<33.01
n66	30	CP-OFDM QPSK	23.23	26.4	0.437	<33.01
n66	20	CP-OFDM QPSK	23.24	26.41	0.438	<33.01
n66	15	CP-OFDM QPSK	23.24	26.41	0.438	<33.01
n66	10	CP-OFDM QPSK	23.13	26.3	0.427	<33.01
n66	5	CP-OFDM QPSK	23.12	26.29	0.426	<33.01
n66	40	CP-OFDM 16QAM	22.5	25.67	0.369	<33.01
n66	30	CP-OFDM 16QAM	22.63	25.8	0.380	<33.01
n66	20	CP-OFDM 16QAM	22.78	25.95	0.394	<33.01
n66	15	CP-OFDM 16QAM	22.63	25.8	0.380	<33.01



n66	10	CP-OFDM 16QAM	22.55	25.72	0.373	<33.01
n66	5	CP-OFDM 16QAM	22.51	25.68	0.370	<33.01
n66	40	CP-OFDM 64QAM	21.06	24.23	0.265	<33.01
n66	30	CP-OFDM 64QAM	21.07	24.24	0.265	<33.01
n66	20	CP-OFDM 64QAM	21.23	24.4	0.275	<33.01
n66	15	CP-OFDM 64QAM	21.15	24.32	0.270	<33.01
n66	10	CP-OFDM 64QAM	20.96	24.13	0.259	<33.01
n66	5	CP-OFDM 64QAM	21.11	24.28	0.268	<33.01
n66	40	CP-OFDM 256QAM	17.99	21.16	0.131	<33.01
n66	30	CP-OFDM 256QAM	18.05	21.22	0.132	<33.01
n66	20	CP-OFDM 256QAM	17.94	21.11	0.129	<33.01
n66	15	CP-OFDM 256QAM	18.1	21.27	0.134	<33.01
n66	10	CP-OFDM 256QAM	17.83	21	0.126	<33.01
n66	5	CP-OFDM 256QAM	18.16	21.33	0.136	<33.01
n71	20	DFT-s OFDM BPSK	23.96	22.5	0.292	< 34.77
n71	15	DFT-s OFDM BPSK	23.91	22.45	0.288	< 34.77
n71	10	DFT-s OFDM BPSK	23.75	22.29	0.278	< 34.77
n71	5	DFT-s OFDM BPSK	23.74	22.28	0.277	< 34.77
n71	20	DFT-s OFDM QPSK	23.99	22.53	0.294	< 34.77
n71	15	DFT-s OFDM QPSK	24.02	22.56	0.296	< 34.77
n71	10	DFT-s OFDM QPSK	23.89	22.43	0.287	< 34.77
n71	5	DFT-s OFDM QPSK	24.03	22.57	0.296	< 34.77
n71	20	DFT-s OFDM 16QAM	23.64	22.18	0.271	< 34.77
n71	15	DFT-s OFDM 16QAM	23.53	22.07	0.264	< 34.77
n71	10	DFT-s OFDM 16QAM	23.19	21.73	0.244	< 34.77
n71	5	DFT-s OFDM 16QAM	23.5	22.04	0.262	< 34.77
n71	20	DFT-s OFDM 64QAM	22.06	20.6	0.188	< 34.77
n71	15	DFT-s OFDM 64QAM	22.04	20.58	0.187	< 34.77
n71	10	DFT-s OFDM 64QAM	22.13	20.67	0.191	< 34.77
n71	5	DFT-s OFDM 64QAM	21.96	20.5	0.184	< 34.77
n71	20	DFT-s OFDM 256QAM	19.88	18.42	0.114	< 34.77
n71	15	DFT-s OFDM 256QAM	19.89	18.43	0.114	< 34.77
n71	10	DFT-s OFDM 256QAM	19.69	18.23	0.109	< 34.77
n71	5	DFT-s OFDM 256QAM	19.67	18.21	0.109	< 34.77
n71	20	CP-OFDM QPSK	22.44	20.98	0.206	< 34.77
n71	15	CP-OFDM QPSK	23.13	21.67	0.241	< 34.77
n71	10	CP-OFDM QPSK	23.04	21.58	0.236	< 34.77
n71	5	CP-OFDM QPSK	23.16	21.7	0.243	< 34.77
n71	20	CP-OFDM 16QAM	22.35	20.89	0.201	< 34.77
n71	15	CP-OFDM 16QAM	22.4	20.94	0.204	< 34.77
n71	10	CP-OFDM 16QAM	22.54	21.08	0.21	< 34.77
n71	5	CP-OFDM 16QAM	22.4	20.94	0.204	< 34.77
n71	20	CP-OFDM 64QAM	21.02	19.56	0.148	< 34.77



n71	15	CP-OFDM 64QAM	21.03	19.57	0.149	< 34.77
n71	10	CP-OFDM 64QAM	21.08	19.62	0.15	< 34.77
n71	5	CP-OFDM 64QAM	21.02	19.56	0.148	< 34.77
n71	20	CP-OFDM 256QAM	18.14	16.68	0.076	< 34.77
n71	15	CP-OFDM 256QAM	17.9	16.44	0.072	< 34.77
n71	10	CP-OFDM 256QAM	17.64	16.18	0.292	< 34.77
n71	5	CP-OFDM 256QAM	17.87	16.41	0.288	< 34.77

n48						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	18.61	21.99	0.158	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
20	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	18.76	22.14	0.164	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	18.80	22.18	0.165	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	19.02	22.40	0.174	N/A	N/A
	QPSK	19.00	22.38	0.173	N/A	N/A
	16QAM	17.70	21.08	0.128	N/A	N/A
	64QAM	16.36	19.74	0.094	N/A	N/A
	256QAM	14.34	17.72	0.059	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



n70						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4897	4M49G7D
	QPSK	21.92	25.19	0.330	4.5104	4M51G7D
	16QAM	/	/	/	4.486	4M49W7D
	64QAM	/	/	/	4.4828	4M48W7D
	256QAM	/	/	/	4.4835	4M48W7D
	CP-QPSK	/	/	/	4.4787	4M48G7D
10	PI/2 BPSK	/	/	/	8.937	8M94G7D
	QPSK	21.72	24.99	0.316	8.9227	8M92G7D
	16QAM	/	/	/	8.9486	8M95W7D
	64QAM	/	/	/	8.9493	8M95W7D
	256QAM	/	/	/	8.9351	8M94W7D
	CP-QPSK	/	/	/	9.2946	9M29G7D
15	PI/2 BPSK	21.89	25.16	0.328	13.408	13M4G7D
	QPSK	21.96	25.23	0.333	13.424	13M4G7D
	16QAM	20.81	24.08	0.256	13.416	13M4W7D
	64QAM	19.25	22.52	0.179	13.401	13M4W7D
	256QAM	16.98	20.25	0.106	13.443	13M4W7D
	CP-QPSK	/	/	/	14.099	14M1G7D

n77/n78(3450-3500MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.71	28.09	0.644	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
15	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.86	28.24	0.667	N/A	N/A



	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
20	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.82	28.20	0.661	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.97	28.35	0.684	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.99	28.37	0.687	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.76	28.14	0.652	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.66	28.04	0.637	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.60	27.98	0.628	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.57	27.95	0.624	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.57	27.95	0.624	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	24.58	27.96	0.625	N/A	N/A
	QPSK	24.13	27.51	0.564	N/A	N/A
	16QAM	23.45	26.83	0.482	N/A	N/A
	64QAM	22.07	25.45	0.351	N/A	N/A
	256QAM	19.92	23.30	0.214	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A

n77/n78(3700-3980MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
10	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.34	27.72	0.592	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
15	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.44	27.82	0.605	N/A	N/A



	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
20	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.44	27.82	0.605	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
30	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.37	27.75	0.596	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
40	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.70	28.08	0.643	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
50	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.31	27.69	0.587	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
60	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.27	27.65	0.582	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
70	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.28	27.66	0.583	N/A	N/A
	16QAM	/	/	/	N/A	N/A



	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
80	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.28	27.66	0.583	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
90	PI/2 BPSK	/	/	/	N/A	N/A
	QPSK	24.17	27.55	0.569	N/A	N/A
	16QAM	/	/	/	N/A	N/A
	64QAM	/	/	/	N/A	N/A
	256QAM	/	/	/	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A
100	PI/2 BPSK	24.18	27.56	0.570	N/A	N/A
	QPSK	24.17	27.55	0.569	N/A	N/A
	16QAM	23.01	26.39	0.436	N/A	N/A
	64QAM	21.60	24.98	0.315	N/A	N/A
	256QAM	19.70	23.08	0.203	N/A	N/A
	CP-QPSK	/	/	/	N/A	N/A



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 and Part 96 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE

n2 & n25			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP $\leq$ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit $\leq$ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq$ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

Remark: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.



n5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §22.917(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm	PASS

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n7 & n41			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(m)(4)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -25 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".



n12			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤3W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n48			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41(b)	Refer to section 2.1	PASS
Peak-Average Ratio	§96.39(g)	≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §96.41(e)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §96.41(e)	≤ -40 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §96.41(e)	≤ -40 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".



n66 & n70			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	PASS
Peak-Average Ratio	§27.50(d) (5)	Limit ≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n71			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)(10)	ERP ≤ 3 W	PASS
Peak-Average Ratio	N/A	N/A	N/A
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §27.53(g)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A



n77(3450~3550MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP $\leq$ 1W	PASS
Peak-Average Ratio	§27.50(K)(4)	$\leq$ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(l)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	$\leq$ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

n77(3700~3980MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP $\leq$ 1W	PASS
Peak-Average Ratio	§27.50(j)(4)	$\leq$ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(n)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	$\leq$ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	$\leq$ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".



Test detailed items/section required by FCC rules and results are as below:

Test Item	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and ERP/EIRP	Gan Jing	PASS	Nodeviation
Occupied Bandwidth	Gan Jing	PASS	Nodeviation
Frequency Stability	Gan Jing	PASS	Nodeviation
Peak to Average Radio	Gan Jing	PASS	Nodeviation
Conducted Spurious Emissions	Gan Jing	PASS	Nodeviation
Band Edge	Gan Jing	PASS	Nodeviation
Radiated Spurious Emissions	Gao Jianrou	PASS	Nodeviation
Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016. Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table. Note 3: The declared of product specification for EUT presented in the report are provided by manufacturer and the test laboratory is not responsible for the accuracy of the information. Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals. Note 5: According to the measured power of all frequency bands, The frequency band with the highest power as worst case was selected for the same NR frequency band for testing.			

1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60

2. Summary Test Results And Description

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for n2, n25, the ERP of Mobile and portable stations are limited to 2 watts EIRP.

According to FCC section 22.913 (a)(5) for n5, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (d)(4) for n66, n70, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 27.50 (h)(2) for n7, n41, mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50(c)(10) for n12, n71, Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

According to FCC section 27.50(j)(3) for n77(3700-3980MHz), n78(3700-3800MHz), mobile and portable stations are limited to 1 Watt EIRP. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

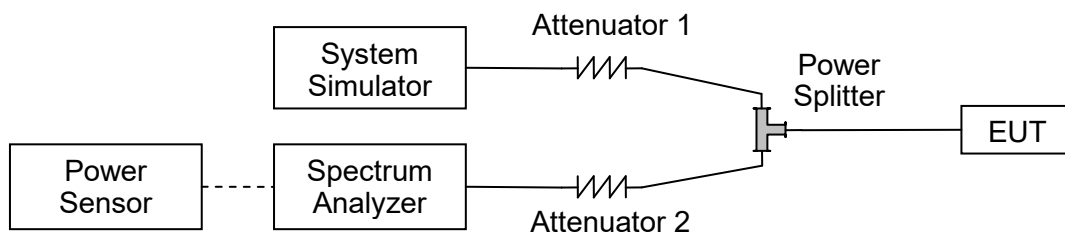
According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(k)(3) for n77, n78(3450-3550MHz), Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 96.41(b) for n48, the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below. Paragraph

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD ¹	47	37

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

2.1.4. Conducted Output Power



n48 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				638000	641666	645332
Frequency (MHz)				3570	3624.99	3679.98
40	DFT-s-OFDM PI/2 BPSK	1	1	18.30	18.81	18.93
40		1	80	18.35	18.62	18.83
40		1	158	18.65	18.98	19.02
40		80	1	17.95	18.25	18.32
40		80	40	18.37	18.69	18.87
40		80	80	17.93	18.19	18.30
40		160	0	17.94	18.19	18.38
40	DFT-s-OFDM QPSK	1	1	18.92	18.79	18.91
40		1	80	18.34	18.66	18.85
40		1	158	18.67	19.00	18.88
40		80	1	17.38	17.70	17.81
40		80	40	18.37	18.66	18.83
40		80	80	17.39	17.69	17.77
40		160	0	17.39	17.68	17.83
40	DFT-s-OFDM 16QAM	1	1	17.59	17.61	17.70
40	DFT-s-OFDM 64QAM	1	1	15.85	16.26	16.36
40	DFT-s-OFDM 256QAM	1	1	13.58	14.07	14.34
40	CP-OFDM QPSK	1	1	16.89	17.28	17.36
40	CP-OFDM 16QAM	1	1	16.27	16.77	16.88
40	CP-OFDM 64QAM	1	1	14.78	14.89	15.34
40	CP-OFDM 256QAM	1	1	11.64	12.06	12.38
Channel				637668	641666	645666
Frequency (MHz)				3565.02	3624.99	3684.99
30	DFT-s-OFDM QPSK	1	1	18.32	18.65	18.80
Channel				637334	641666	646000
Frequency (MHz)				3560.01	3624.99	3690
20	DFT-s-OFDM QPSK	1	1	18.30	18.71	18.76
Channel				637000	641666	646332
Frequency (MHz)				3555	3624.99	3694.98
10	DFT-s-OFDM QPSK	1	1	18.21	18.46	18.61



n70 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				/	340500	/
Frequency (MHz)				/	1702.5	/
15	DFT-s-OFDM PI/2 BPSK	1	1	/	21.83	/
15		1	80	/	21.89	/
15		1	158	/	21.86	/
15		80	1	/	21.30	/
15		80	40	/	21.86	/
15		80	80	/	21.41	/
15		160	0	/	21.38	/
15	DFT-s-OFDM QPSK	1	1	/	21.87	/
15		1	80	/	21.96	/
15		1	158	/	21.90	/
15		80	1	/	20.81	/
15		80	40	/	20.87	/
15		80	80	/	20.87	/
15		160	0	/	20.87	/
15	DFT-s-OFDM 16QAM	1	1	/	20.81	/
15	DFT-s-OFDM 64QAM	1	1	/	19.25	/
15	DFT-s-OFDM 256QAM	1	1	/	16.98	/
15	CP-OFDM QPSK	1	1	/	20.14	/
15	CP-OFDM 16QAM	1	1	/	19.74	/
15	CP-OFDM 64QAM	1	1	/	17.89	/
15	CP-OFDM 256QAM	1	1	/	15.08	/
Channel				340000	340500	341000
Frequency (MHz)				1700	1702.5	1705
10	DFT-s-OFDM QPSK	1	1	21.62	21.69	21.72
Channel				339500	340500	341500
Frequency (MHz)				1697.5	1702.5	1707.5
5	DFT-s-OFDM QPSK	1	1	21.92	21.74	21.84



n77/n78 (3450-3550MHz) (PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel					633334	
Frequency (MHz)					3500.01	
100	DFT-s-OFDM PI/2 BPSK	1	1		24.58	
100		1	136		24.04	
100		1	271		23.61	
100		135	1		23.79	
100		135	67		24.14	
100		135	136		22.99	
100		270	0		23.58	
100	DFT-s-OFDM QPSK	1	1		23.83	
100		1	136		24.01	
100		1	271		23.56	
100		135	1		23.27	
100		135	67		24.13	
100		135	136		22.47	
100		270	0		23.08	
100	DFT-s-OFDM 16QAM	1	1		23.45	
100	DFT-s-OFDM 64QAM	1	1		22.07	
100	DFT-s-OFDM 256QAM	1	1		19.92	
100	CP-OFDM QPSK	1	1		23.09	
100	CP-OFDM 16QAM	1	1		22.66	
100	CP-OFDM 64QAM	1	1		20.79	
100	CP-OFDM 256QAM	1	1		17.91	
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.57	24.52	24.45
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	24.57	24.42	24.34
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM QPSK	1	1	24.60	24.46	24.29
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	24.66	24.57	24.35
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	24.76	24.57	24.53
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	24.99	24.72	24.17



Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	24.97	24.64	23.86
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	24.82	24.43	23.64
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	24.86	24.36	23.65
Channel				630334	633334	636332
Frequency (MHz)				3455.01	3500.01	3544.98
10	DFT-s-OFDM QPSK	1	1	24.71	24.28	23.46

n77/n78(3700-3980MHz) (PC2)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	24.18	23.36	22.83
100		1	136	24.09	23.27	22.36
100		1	271	23.58	22.81	22.96
100		135	1	23.90	22.70	22.03
100		135	67	24.09	23.32	22.43
100		135	136	23.19	22.34	22.13
100		270	0	23.49	22.86	22.02
100		1	1	24.17	23.38	22.89
100	DFT-s-OFDM QPSK	1	136	24.10	23.30	22.38
100		1	271	23.59	22.81	22.96
100		135	1	23.40	22.24	21.54
100		135	67	24.07	23.35	22.43
100		135	136	22.72	21.75	21.64
100		270	0	23.05	22.34	21.54
100	DFT-s-OFDM 16QAM	1	1	23.01	22.35	21.86
100	DFT-s-OFDM 64QAM	1	1	21.60	20.84	20.34
100	DFT-s-OFDM 256QAM	1	1	19.70	18.65	18.17
100	CP-OFDM QPSK	1	1	22.68	21.97	19.46
100	CP-OFDM 16QAM	1	1	22.22	21.44	20.86
100	CP-OFDM 64QAM	1	1	20.70	19.83	19.33
100	CP-OFDM 256QAM	1	1	17.79	16.95	16.46
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM QPSK	1	1	24.17	23.49	22.93
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99



80	DFT-s-OFDM QPSK	1	1	24.28	23.64	22.83
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM QPSK	1	1	24.28	23.56	22.75
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	24.27	23.60	22.74
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	24.31	23.48	22.84
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	24.70	23.78	23.15
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	24.37	23.64	23.15
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	24.44	23.70	23.44
Channel				647168	656000	664832
Frequency (MHz)				3707.52	3840	3972.48
15	DFT-s-OFDM QPSK	1	1	24.44	23.70	23.47
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	24.34	23.50	23.52

**Effective Radiated Power and Effective Isotropic Radiated Power:**

Test Band	Frequency (MHz)	Channel Bandwidth (MHz)	Modulation	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Output Power (W)	Limit (dBm)
n2	1882.5	15	DFT-s OFDM QPSK	1	1	24.02	27.18	0.522	<33.01
n5	836	20	DFT-s OFDM 16QAM	1	1	23.91	22.56	0.180	<38.45
n7	2507.5	15	DFT-s OFDM 16QAM	1	77	24.78	27.64	0.581	<33.01
n12	708.5	15	DFT-s OFDM QPSK	1	1	23.54	22.23	0.167	<34.77
n25	1882.5	15	DFT-s OFDM QPSK	1	77	23.25	26.41	0.438	<33.01
n41	2592.99	70	CP OFDM QPSK	1	188	24.86	28.32	0.679	<33.01
n41_HP UE	2670	40	DFT-s OFDM QPSK	1	104	27.83	31.29	1.346	<33.01
n66	1772.5	15	DFT-s OFDM QPSK	1	77	24.23	27.4	0.550	<30
n71	690.5	15	DFT-s OFDM QPSK	1	1	23.57	22.11	0.163	<34.77

Note: The output power level have no change, only the gain differs from the gain of the module, and only the worst cases were recorded in this test report.



n70 (PC3)									
BW [M Hz]	Modulation	R B Si ze	RB Off set	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				/	/	340500	340500	/	/
Frequency (MHz)				/	/	1702.50	1702.50	/	/
15	DFT-s-OFDM PI/2 BPSK	1	1	/	/	25.10	0.324	/	/
15		1	80	/	/	25.16	0.328	/	/
15		1	158	/	/	25.13	0.326	/	/
15		80	1	/	/	24.57	0.286	/	/
15		80	40	/	/	25.13	0.326	/	/
15		80	80	/	/	24.68	0.294	/	/
15		16 0	0	/	/	24.65	0.292	/	/
15	DFT-s-OFDM QPSK	1	1	/	/	25.14	0.327	/	/
15		1	80	/	/	25.23	0.333	/	/
15		1	158	/	/	25.17	0.329	/	/
15		80	1	/	/	24.08	0.256	/	/
15		80	40	/	/	24.14	0.259	/	/
15		80	80	/	/	24.14	0.259	/	/
15		16 0	0	/	/	24.14	0.259	/	/
15	DFT-s-OFDM 16QAM	1	1	/	/	24.08	0.256	/	/
15	DFT-s-OFDM 64QAM	1	1	/	/	22.52	0.179	/	/
15	DFT-s-OFDM 256QAM	1	1	/	/	20.25	0.106	/	/
15	CP-OFDM QPSK	1	1	/	/	23.41	0.219	/	/
15	CP-OFDM 16QAM	1	1	/	/	23.01	0.200	/	/
15	CP-OFDM 64QAM	1	1	/	/	21.16	0.131	/	/
15	CP-OFDM 256QAM	1	1	/	/	18.35	0.068	/	/
Channel				340000	340000	340500	340500	341000	341000
Frequency (MHz)				1700.00	1700.00	1702.50	1702.50	1705.00	1705.00
10	DFT-s-OFDM QPSK	1	1	24.89	0.308	24.96	0.313	24.99	0.316
Channel				339500	339500	340500	340500	341500	341500
Frequency (MHz)				1697.50	1697.50	1702.50	1702.50	1707.50	1707.50
5	DFT-s-OFDM QPSK	1	1	25.19	0.330	25.01	0.317	25.11	0.324



n77/n78(3450-3550MHz) (PC2)									
BW [M Hz]	Modulation	R B Si ze	RB Off set	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
10 0	DFT-s-OFDM PI/2 BPSK	1	1	/	/	27.96	0.625	/	/
10 0		1	136	/	/	27.42	0.552	/	/
10 0		1	271	/	/	26.99	0.500	/	/
10 0		13 5	1	/	/	27.17	0.521	/	/
10 0		13 5	67	/	/	27.52	0.565	/	/
10 0		13 5	136	/	/	26.37	0.434	/	/
10 0		27 0	0	/	/	26.96	0.497	/	/
10 0	DFT-s-OFDM QPSK	1	1	/	/	27.21	0.526	/	/
10 0		1	136	/	/	27.39	0.548	/	/
10 0		1	271	/	/	26.94	0.494	/	/
10 0		13 5	1	/	/	26.65	0.462	/	/
10 0		13 5	67	/	/	27.51	0.564	/	/
10 0		13 5	136	/	/	25.85	0.385	/	/
10 0		27 0	0	/	/	26.46	0.443	/	/
10 0	DFT-s-OFDM 16QAM	1	1	/	/	26.83	0.482	/	/
10 0	DFT-s-OFDM 64QAM	1	1	/	/	25.45	0.351	/	/
10 0	DFT-s-OFDM 256QAM	1	1	/	/	23.30	0.214	/	/
10 0	CP-OFDM QPSK	1	1	/	/	26.47	0.444	/	/
10 0	CP-OFDM 16QAM	1	1	/	/	26.04	0.402	/	/
10 0	CP-OFDM 64QAM	1	1	/	/	24.17	0.261	/	/
10	CP-OFDM	1	1	/	/	21.29	0.135	/	/



0	256QAM								
Channel				633000	633000	633334	633334	633666	633666
Frequency (MHz)				3495.00	3495.00	3500.01	3500.01	3504.99	3504.99
90	DFT-s-OFDM QPSK	1	1	27.95	0.624	27.90	0.617	27.83	0.607
Channel				632668	632668	633334	633334	634000	634000
Frequency (MHz)				3490.02	3490.02	3500.01	3500.01	3510.00	3510.00
80	DFT-s-OFDM QPSK	1	1	27.95	0.624	27.80	0.603	27.72	0.592
Channel				632334	632334	633334	633334	634332	634332
Frequency (MHz)				3485.01	3485.01	3500.01	3500.01	3514.98	3514.98
70	DFT-s-OFDM QPSK	1	1	27.98	0.628	27.84	0.608	27.67	0.585
Channel				632000	632000	633334	633334	634666	634666
Frequency (MHz)				3480.00	3480.00	3500.01	3500.01	3519.99	3519.99
60	DFT-s-OFDM QPSK	1	1	28.04	0.637	27.95	0.624	27.73	0.593
Channel				631668	631668	633334	633334	635000	635000
Frequency (MHz)				3475.02	3475.02	3500.01	3500.01	3525.00	3525.00
50	DFT-s-OFDM QPSK	1	1	28.14	0.652	27.95	0.624	27.91	0.618
Channel				631334	631334	633334	633334	635332	635332
Frequency (MHz)				3470.01	3470.01	3500.01	3500.01	3529.98	3529.98
40	DFT-s-OFDM QPSK	1	1	28.37	0.687	28.10	0.646	27.55	0.569
Channel				631000	631000	633334	633334	635666	635666
Frequency (MHz)				3465.00	3465.00	3500.01	3500.01	3534.99	3534.99
30	DFT-s-OFDM QPSK	1	1	28.35	0.684	28.02	0.634	27.24	0.530
Channel				630668	630668	633334	633334	636000	636000
Frequency (MHz)				3460.02	3460.02	3500.01	3500.01	3540.00	3540.00
20	DFT-s-OFDM QPSK	1	1	28.20	0.661	27.81	0.604	27.02	0.504
Channel				630500	630500	633334	633334	636166	636166
Frequency (MHz)				3457.50	3457.50	3500.01	3500.01	3542.49	3542.49
15	DFT-s-OFDM QPSK	1	1	28.24	0.667	27.74	0.594	27.03	0.505
Channel				630334	630334	633334	633334	636332	636332
Frequency (MHz)				3455.01	3455.01	3500.01	3500.01	3544.98	3544.98
10	DFT-s-OFDM QPSK	1	1	28.09	0.644	27.66	0.583	26.84	0.483



n77/n78(3700-3980MHz) (PC2)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel /dBm	Low Channel /Watt	Middle Channel /dBm	Middle Channel /Watt	High Channel /dBm	High Channel /Watt
Channel				650000	650000	656000	656000	662000	662000
Frequency (MHz)				3750.00	3750.00	3840.00	3840.00	3930.00	3930.00
100	DFT-s-OFDM PI/2 BPSK	1	1	27.56	0.570	26.74	0.472	26.21	0.418
100		1	136	27.47	0.558	26.65	0.462	25.74	0.375
100		1	271	26.96	0.497	26.19	0.416	26.34	0.431
100		135	1	27.28	0.535	26.08	0.406	25.41	0.348
100		135	67	27.47	0.558	26.70	0.468	25.81	0.381
100		135	136	26.57	0.454	25.72	0.373	25.51	0.356
100		270	0	26.87	0.486	26.24	0.421	25.40	0.347
100	DFT-s-OFDM QPSK	1	1	27.55	0.569	26.76	0.474	26.27	0.424
100		1	136	27.48	0.560	26.68	0.466	25.76	0.377
100		1	271	26.97	0.498	26.19	0.416	26.34	0.431
100		135	1	26.78	0.476	25.62	0.365	24.92	0.310
100		135	67	27.45	0.556	26.73	0.471	25.81	0.381
100		135	136	26.10	0.407	25.13	0.326	25.02	0.318
100		270	0	26.43	0.440	25.72	0.373	24.92	0.310
100	DFT-s-OFDM 16QAM	1	1	26.39	0.436	25.73	0.374	25.24	0.334
100	DFT-s-OFDM 64QAM	1	1	24.98	0.315	24.22	0.264	23.72	0.236
100	DFT-s-OFDM 256QAM	1	1	23.08	0.203	22.03	0.160	21.55	0.143
100	CP-OFDM QPSK	1	1	26.06	0.404	25.35	0.343	22.84	0.192
100	CP-OFDM 16QAM	1	1	25.60	0.363	24.82	0.303	24.24	0.265
100	CP-OFDM 64QAM	1	1	24.08	0.256	23.21	0.209	22.71	0.187
10	CP-OFDM	1	1	21.17	0.131	20.33	0.108	19.84	0.096



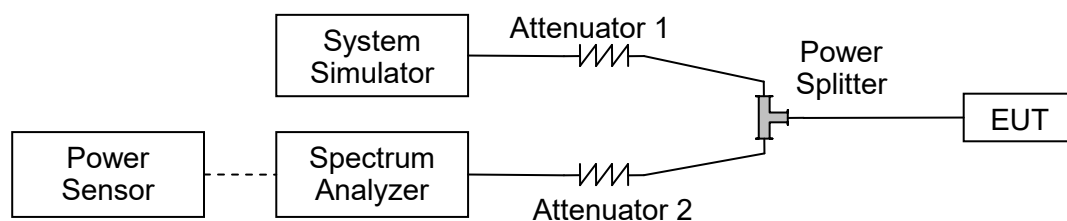
0	256QAM								
Channel				649666	649666	656000	656000	662332	662332
Frequency (MHz)				3744.99	3744.99	3840.00	3840.00	3934.98	3934.98
90	DFT-s-OFDM QPSK	1	1	27.55	0.569	26.87	0.486	26.31	0.428
Channel				649334	649334	656000	656000	662666	662666
Frequency (MHz)				3740.01	3740.01	3840.00	3840.00	3939.99	3939.99
80	DFT-s-OFDM QPSK	1	1	27.66	0.583	27.02	0.504	26.21	0.418
Channel				649000	649000	656000	656000	663000	663000
Frequency (MHz)				3735.00	3735.00	3840.00	3840.00	3945.00	3945.00
70	DFT-s-OFDM QPSK	1	1	27.66	0.583	26.94	0.494	26.13	0.410
Channel				648668	648668	656000	656000	663332	663332
Frequency (MHz)				3730.02	3730.02	3840.00	3840.00	3949.98	3949.98
60	DFT-s-OFDM QPSK	1	1	27.65	0.582	26.98	0.499	26.12	0.409
Channel				648334	648334	656000	656000	663666	663666
Frequency (MHz)				3725.01	3725.01	3840.00	3840.00	3954.99	3954.99
50	DFT-s-OFDM QPSK	1	1	27.69	0.587	26.86	0.485	26.22	0.419
Channel				648000	648000	656000	656000	664000	664000
Frequency (MHz)				3720.00	3720.00	3840.00	3840.00	3960.00	3960.00
40	DFT-s-OFDM QPSK	1	1	28.08	0.643	27.16	0.520	26.53	0.450
Channel				647668	647668	656000	656000	664332	664332
Frequency (MHz)				3715.02	3715.02	3840.00	3840.00	3964.98	3964.98
30	DFT-s-OFDM QPSK	1	1	27.75	0.596	27.02	0.504	26.53	0.450
Channel				647334	647334	656000	656000	664666	664666
Frequency (MHz)				3710.01	3710.01	3840.00	3840.00	3969.99	3969.99
20	DFT-s-OFDM QPSK	1	1	27.82	0.605	27.08	0.511	26.82	0.481
Channel				647168	647168	656000	656000	664832	664832
Frequency (MHz)				3707.52	3707.52	3840.00	3840.00	3972.48	3972.48
15	DFT-s-OFDM QPSK	1	1	27.82	0.605	27.08	0.511	26.85	0.484
Channel				647000	647000	656000	656000	665000	665000
Frequency (MHz)				3705.00	3705.00	3840.00	3840.00	3975.00	3975.00
10	DFT-s-OFDM QPSK	1	1	27.72	0.592	26.88	0.488	26.90	0.490

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

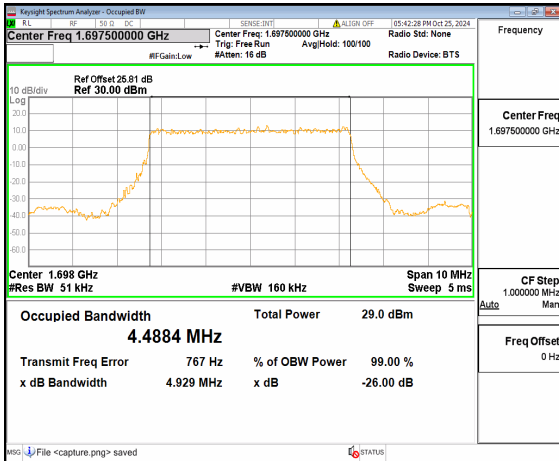
2.2.4. Test Result



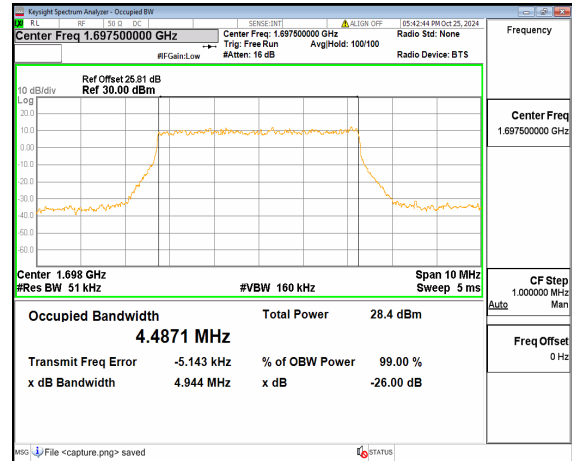
Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
n70	15	5	339500	DFT-s-OFDM PI/2 BPSK	25/0	4.4884	4.929	PASS
n70	15	5	339500	DFT-s-OFDM QPSK	25/0	4.4871	4.944	PASS
n70	15	5	339500	DFT-s-OFDM 16QAM	25/0	4.4857	4.988	PASS
n70	15	5	339500	DFT-s-OFDM 64QAM	25/0	4.4828	4.982	PASS
n70	15	5	339500	DFT-s-OFDM 256QAM	25/0	4.4835	5.076	PASS
n70	15	5	339500	CP-OFDM QPSK	25/0	4.4748	5.129	PASS
n70	15	5	340500	DFT-s-OFDM PI/2 BPSK	25/0	4.4844	5.027	PASS
n70	15	5	340500	DFT-s-OFDM QPSK	25/0	4.5104	5.205	PASS
n70	15	5	340500	DFT-s-OFDM 16QAM	25/0	4.4860	5.062	PASS
n70	15	5	340500	DFT-s-OFDM 64QAM	25/0	4.4696	4.980	PASS
n70	15	5	340500	DFT-s-OFDM 256QAM	25/0	4.4808	5.040	PASS
n70	15	5	340500	CP-OFDM QPSK	25/0	4.4767	5.096	PASS
n70	15	5	341500	DFT-s-OFDM PI/2 BPSK	25/0	4.4897	5.023	PASS
n70	15	5	341500	DFT-s-OFDM QPSK	25/0	4.4916	5.099	PASS
n70	15	5	341500	DFT-s-OFDM 16QAM	25/0	4.4847	4.970	PASS
n70	15	5	341500	DFT-s-OFDM 64QAM	25/0	4.4809	5.094	PASS
n70	15	5	341500	DFT-s-OFDM 256QAM	25/0	4.4753	4.996	PASS
n70	15	5	341500	CP-OFDM QPSK	25/0	4.4787	5.103	PASS
n70	15	10	340000	DFT-s-OFDM PI/2 BPSK	50/0	8.9370	9.711	PASS
n70	15	10	340000	DFT-s-OFDM QPSK	50/0	8.9174	9.578	PASS
n70	15	10	340000	DFT-s-OFDM 16QAM	50/0	8.9471	9.653	PASS
n70	15	10	340000	DFT-s-OFDM 64QAM	50/0	8.9321	9.718	PASS
n70	15	10	340000	DFT-s-OFDM 256QAM	50/0	8.9351	9.571	PASS
n70	15	10	340000	CP-OFDM	52/0	9.2946	9.984	PASS



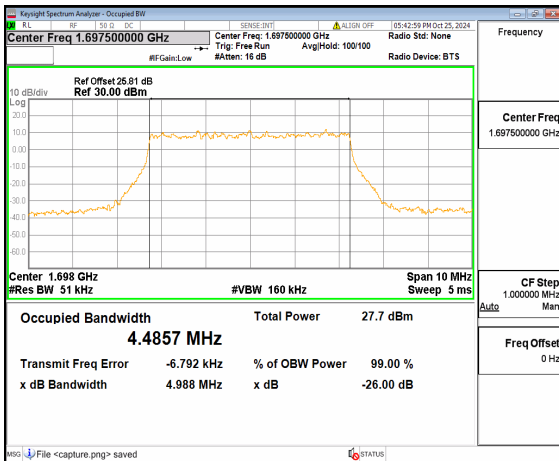
				QPSK				
n70	15	10	340500	DFT-s-OFDM PI/2 BPSK	50/0	8.9283	9.628	PASS
n70	15	10	340500	DFT-s-OFDM QPSK	50/0	8.9195	9.628	PASS
n70	15	10	340500	DFT-s-OFDM 16QAM	50/0	8.9486	9.601	PASS
n70	15	10	340500	DFT-s-OFDM 64QAM	50/0	8.9265	9.620	PASS
n70	15	10	340500	DFT-s-OFDM 256QAM	50/0	8.9324	9.698	PASS
n70	15	10	340500	CP-OFDM QPSK	52/0	9.2869	10.129	PASS
n70	15	10	341000	DFT-s-OFDM PI/2 BPSK	50/0	8.9350	9.743	PASS
n70	15	10	341000	DFT-s-OFDM QPSK	50/0	8.9227	9.662	PASS
n70	15	10	341000	DFT-s-OFDM 16QAM	50/0	8.9461	9.606	PASS
n70	15	10	341000	DFT-s-OFDM 64QAM	50/0	8.9493	9.646	PASS
n70	15	10	341000	DFT-s-OFDM 256QAM	50/0	8.8978	9.432	PASS
n70	15	10	341000	CP-OFDM QPSK	52/0	9.2746	10.086	PASS
n70	15	15	340500	DFT-s-OFDM PI/2 BPSK	75/0	13.408	14.341	PASS
n70	15	15	340500	DFT-s-OFDM QPSK	75/0	13.424	14.334	PASS
n70	15	15	340500	DFT-s-OFDM 16QAM	75/0	13.416	14.225	PASS
n70	15	15	340500	DFT-s-OFDM 64QAM	75/0	13.401	14.332	PASS
n70	15	15	340500	DFT-s-OFDM 256QAM	75/0	13.443	14.370	PASS
n70	15	15	340500	CP-OFDM QPSK	79/0	14.099	14.994	PASS



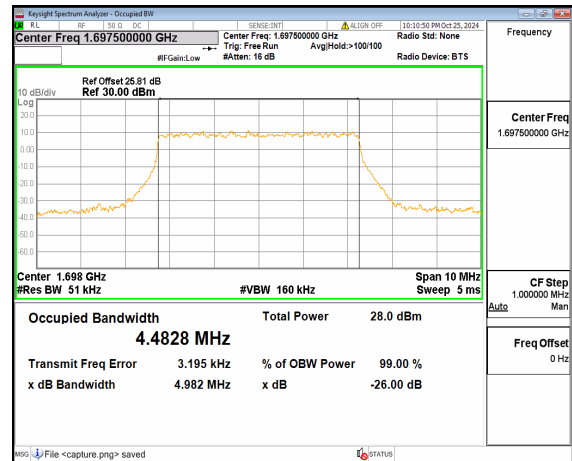
n70 5M DFT-s-OFDM BPSK Outer_Full Low



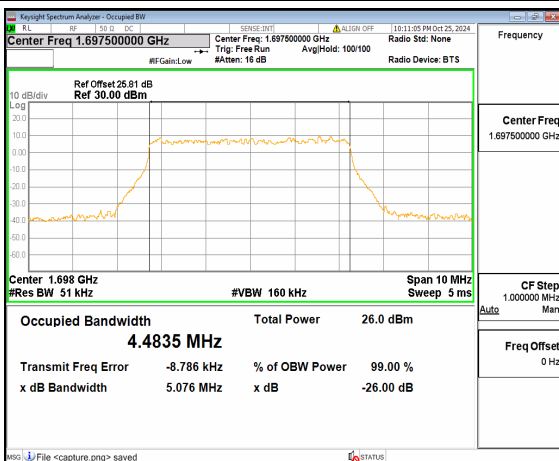
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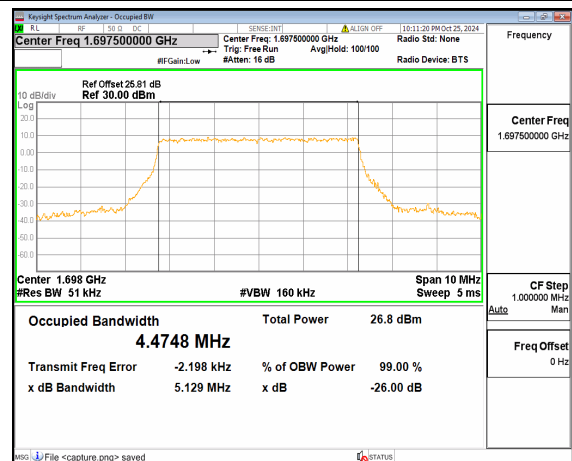
n70 5M DFT-s-OFDM 16QAM Outer_Full Low



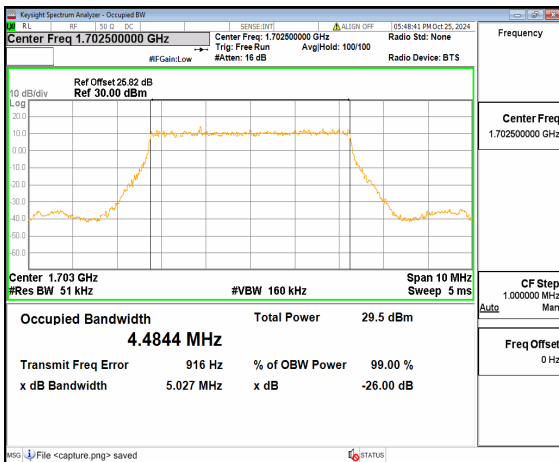
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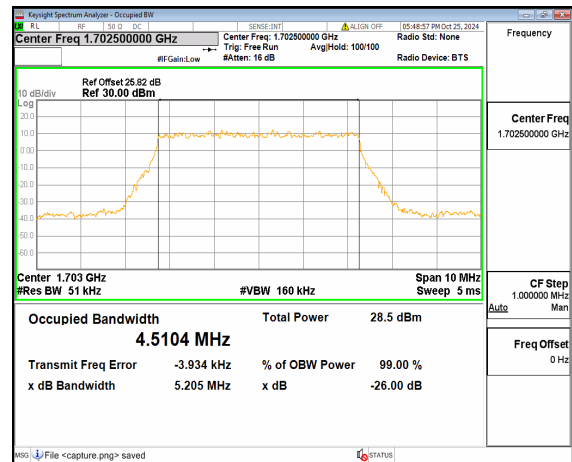
n70 5M DFT-s-OFDM 256QAM Outer_Full Low



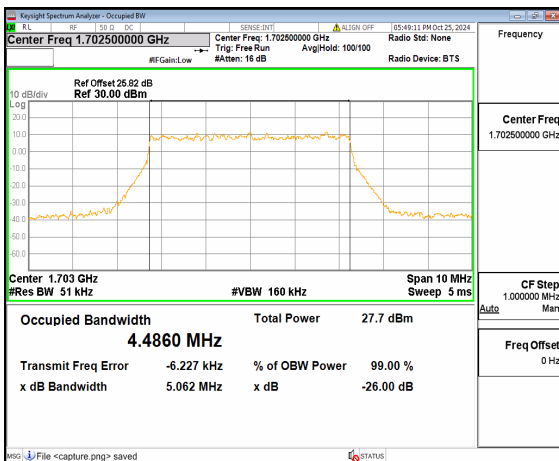
n70 5M CP-OFDM QPSK Outer_Full Low



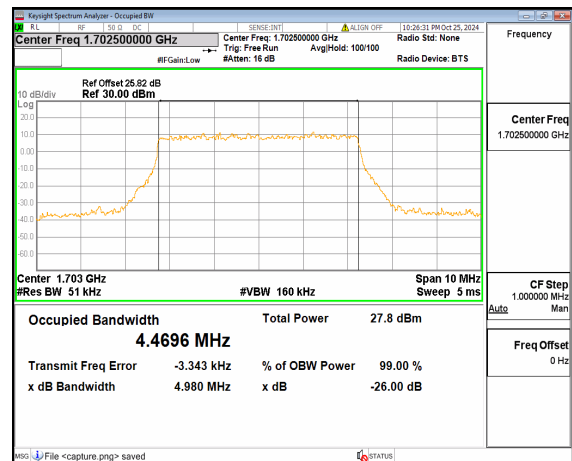
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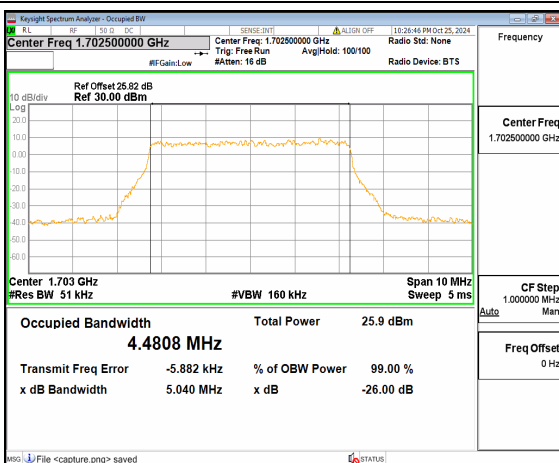
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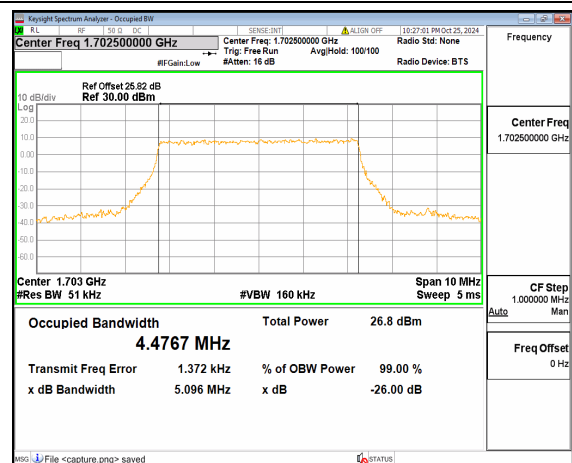
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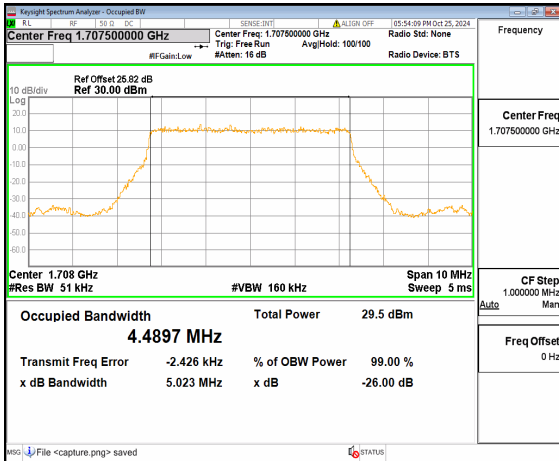
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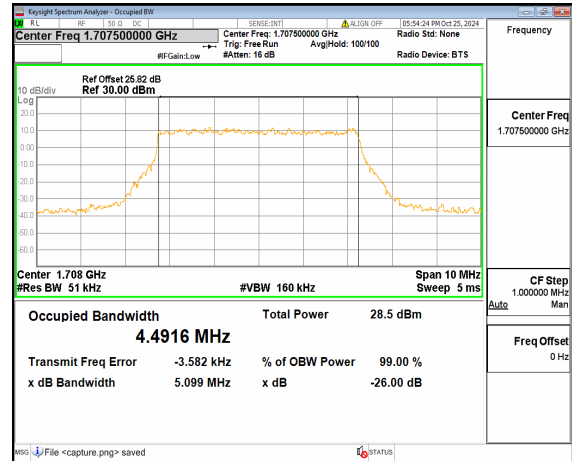
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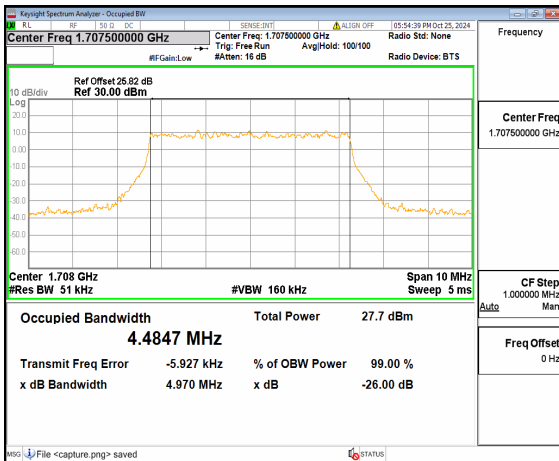
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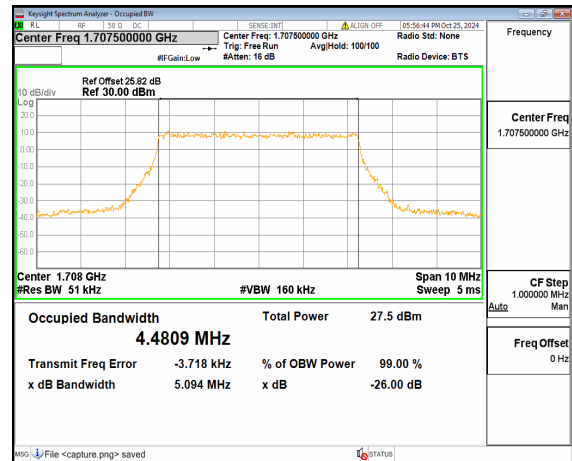
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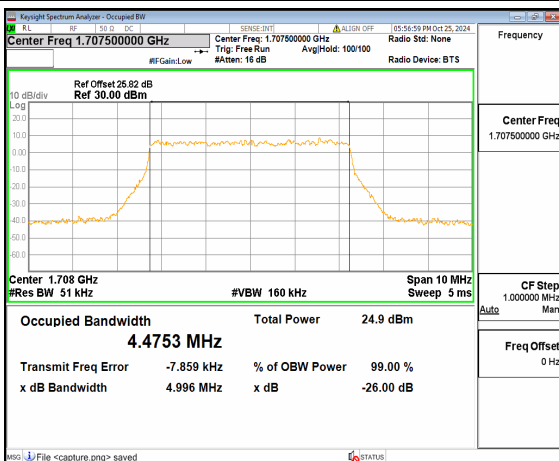
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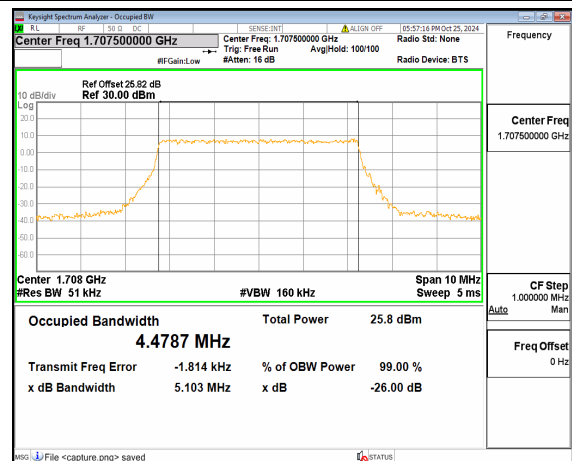
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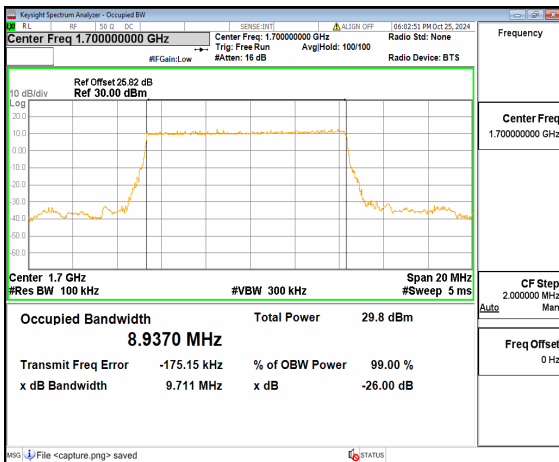
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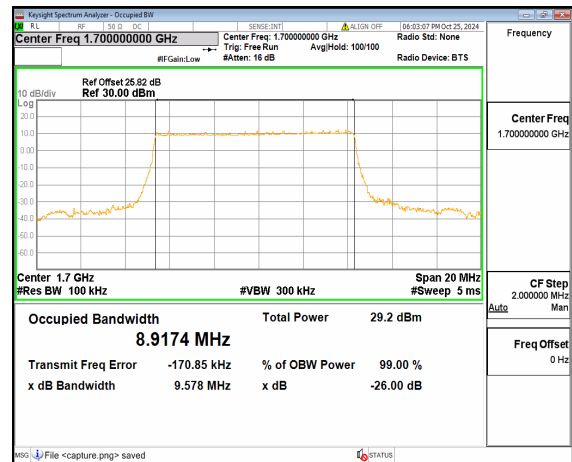
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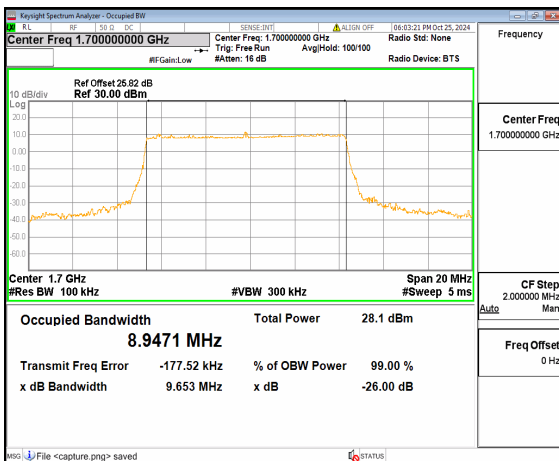
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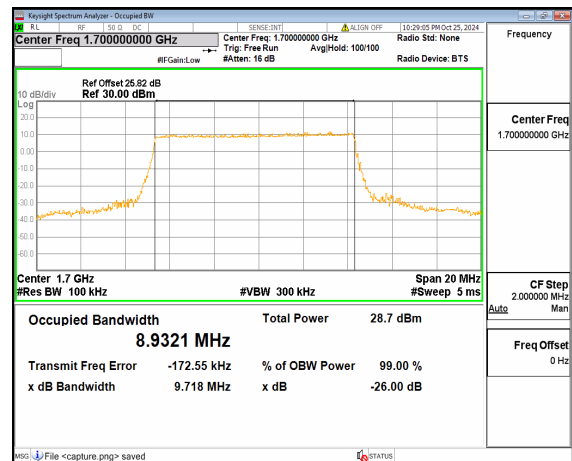
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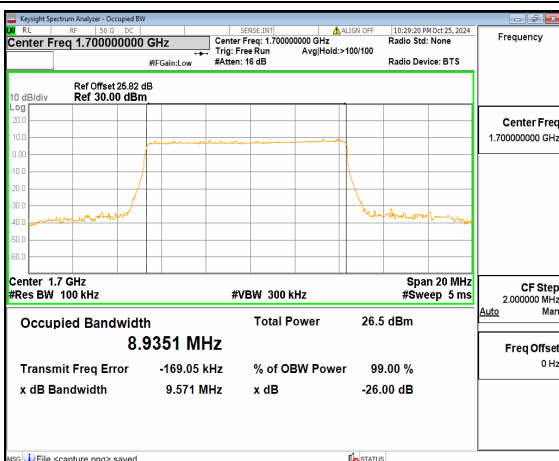
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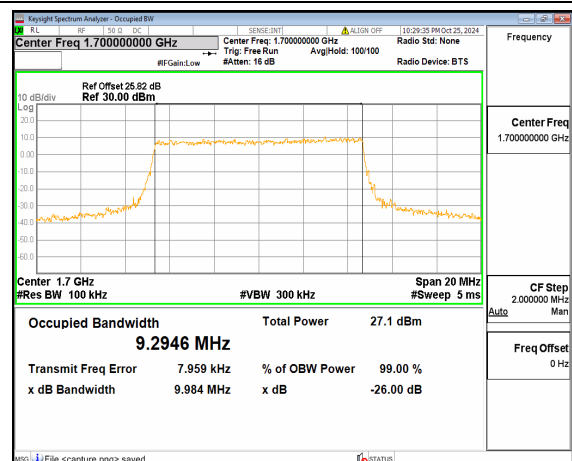
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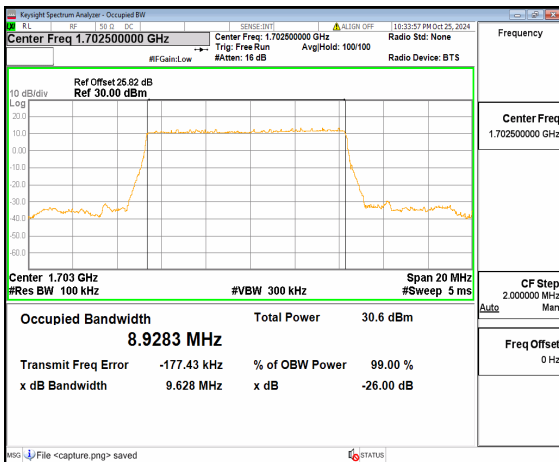
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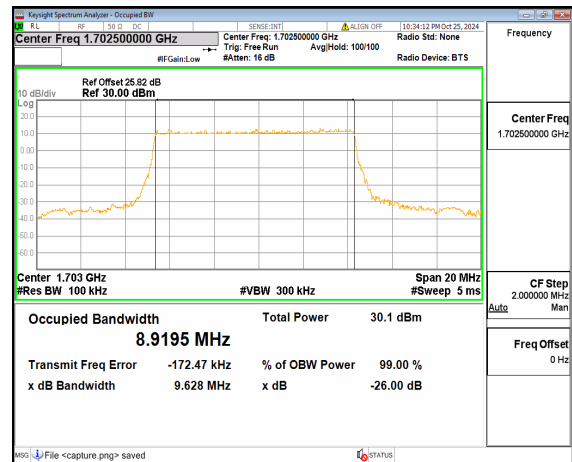
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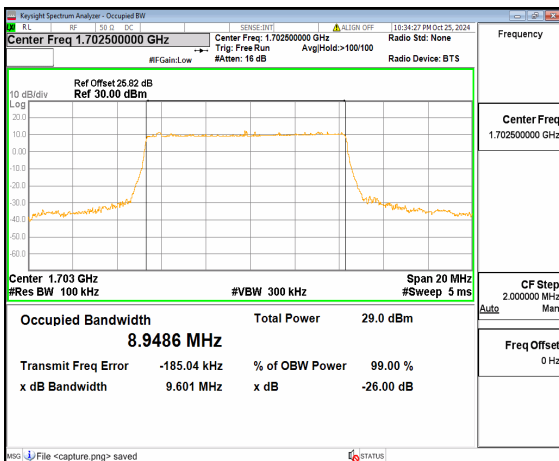
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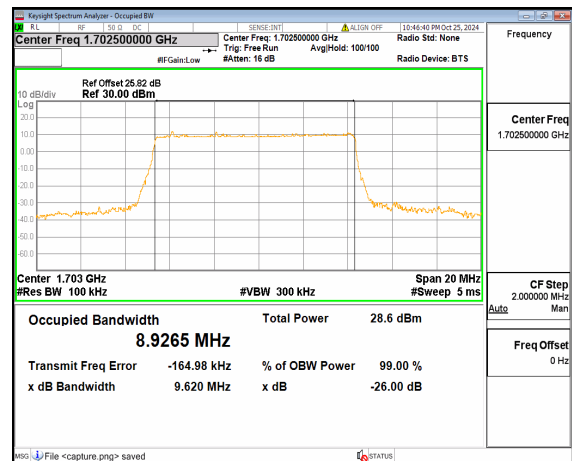
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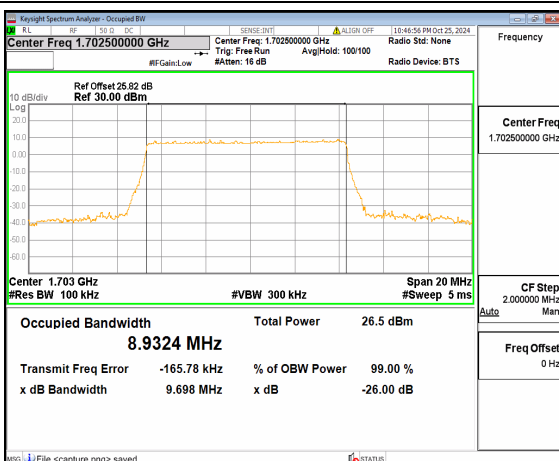
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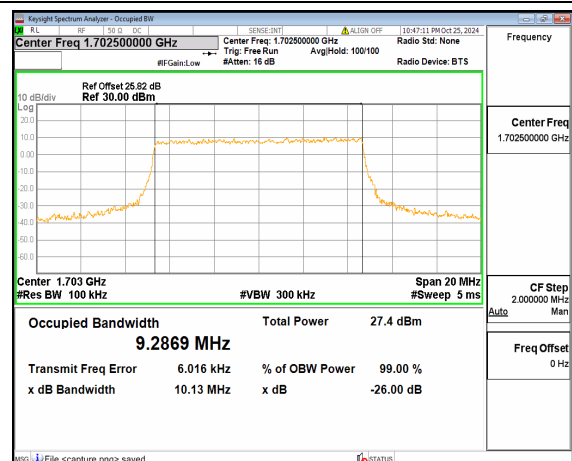
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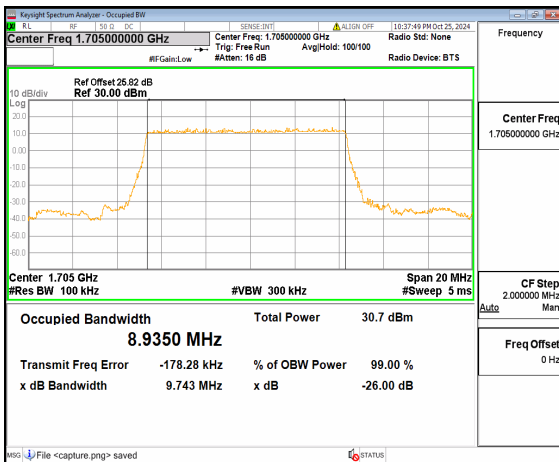
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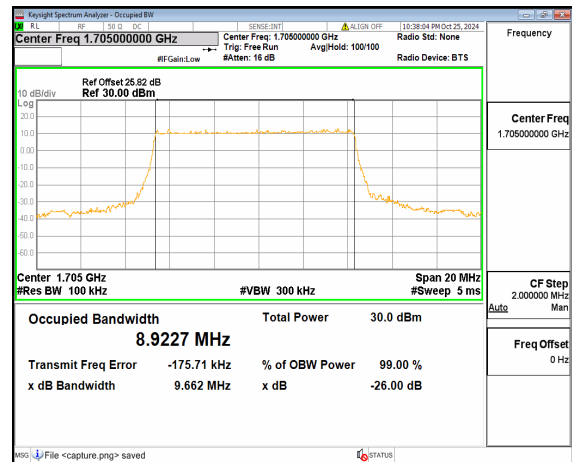
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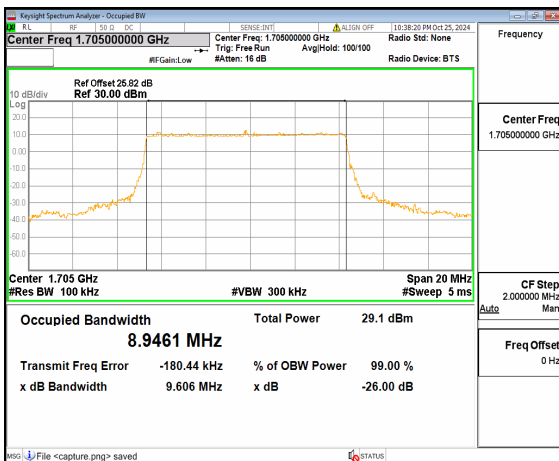
n70 10M CP-OFDM QPSK Outer_Full Mid



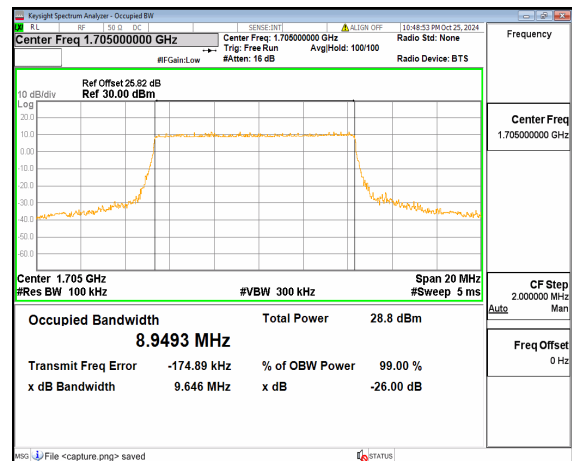
n70 10M DFT-s-OFDM BPSK Outer_Full High



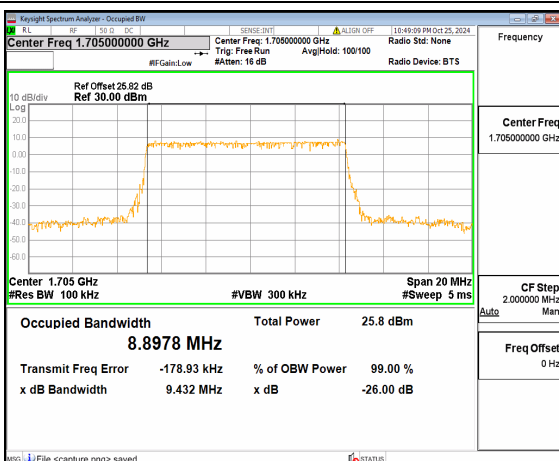
n70 10M DFT-s-OFDM QPSK Outer_Full High



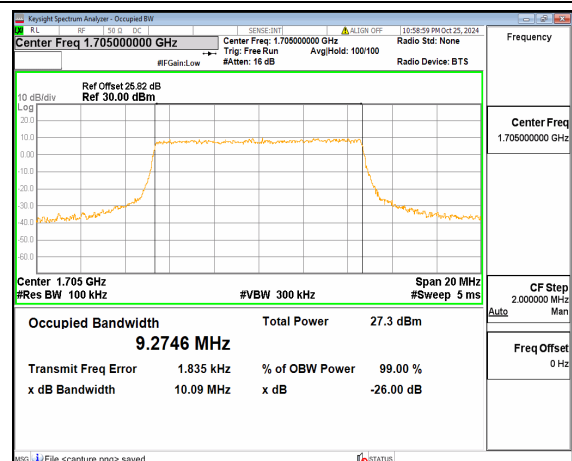
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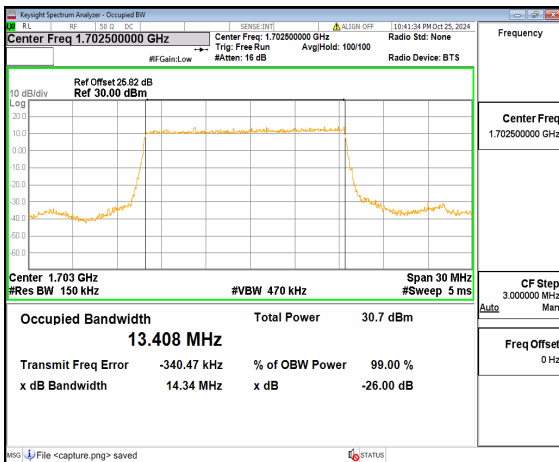
n70 10M DFT-s-OFDM 64QAM Outer_Full High



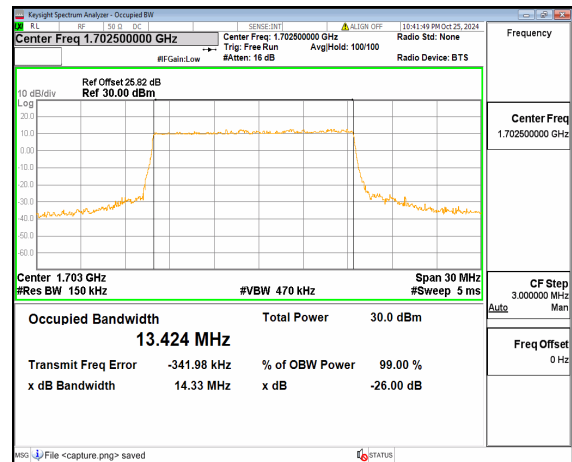
n70 10M DFT-s-OFDM 256QAM Outer_Full High



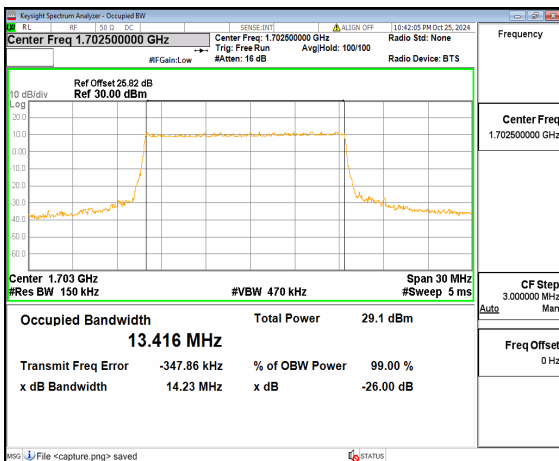
n70 10M CP-OFDM QPSK Outer_Full High



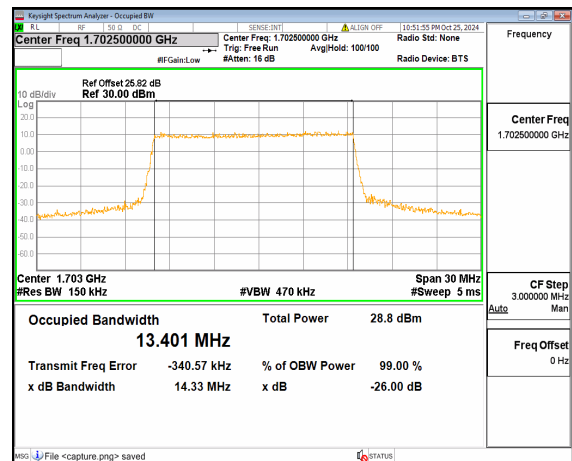
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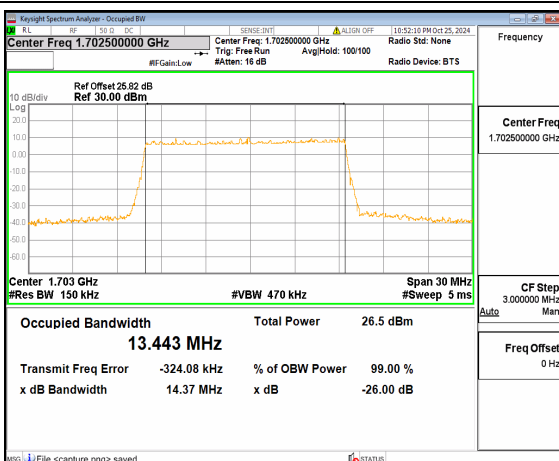
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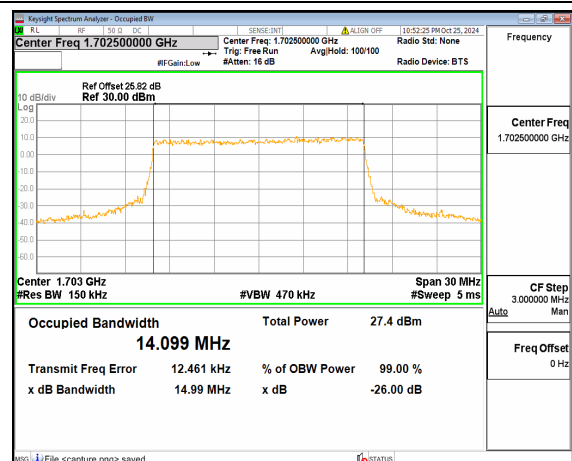
n70 15M DFT-s-OFDM 16QAM Outer_Full Mid



n70 15M DFT-s-OFDM 64QAM Outer_Full Mid



n70 15M DFT-s-OFDM 256QAM Outer_Full Mid



n70 15M CP-OFDM QPSK Outer_Full Mid

2.3. Frequency Stability

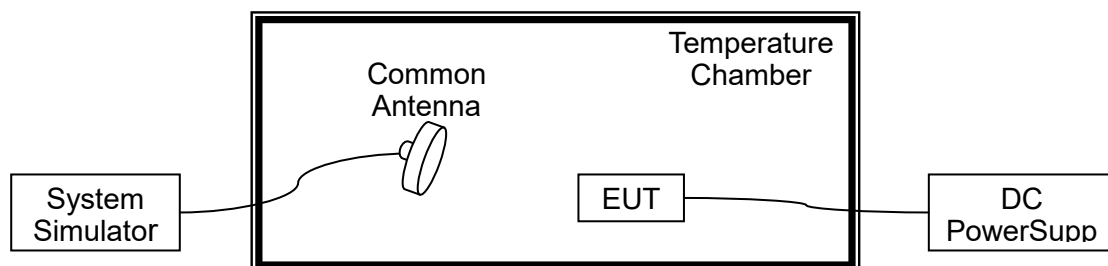
2.3.1. Requirement

According to FCC section 2.1055, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from -10°C to 45°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85VDC , 4.2VDC and 3.4VDC , which are specified by the applicant; the normal temperature here used is 20°C .



REPORT No.: SZ24050224W06

NR n70, QPSK, Channel 340500, SCS 15kHz, Frequency 1702.5MHz Limit=±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.93	+20(Ref)	18	0.011	PASS
Normal		0	20	0.012	
Normal		+10	18	0.011	
Normal		+20	20	0.012	
Normal		+30	14	0.008	
Normal		+40	-21	-0.012	
Normal		+45	-13	-0.008	
High	4.53	+20	-16	-0.009	
BATT.ENDPOINT	3.50	+20	17	0.010	

2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d) for n2, n25, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

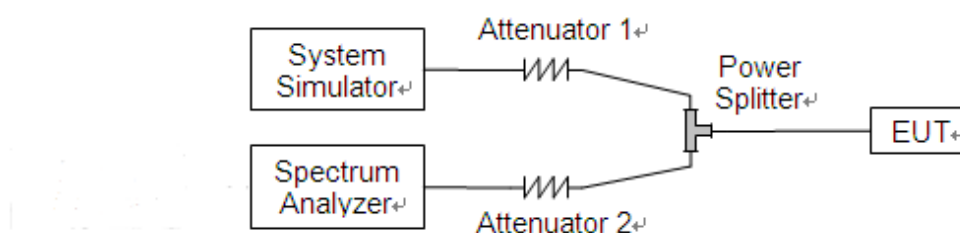
According to FCC section 27.50(d)(5) for n66, n70, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to FCC section 96.41(g) for n48, the peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB. PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities or another Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

According to FCC section 27.50(j)(4) and 25.50(k)(4) for n77, in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.4.2. Test Description

Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

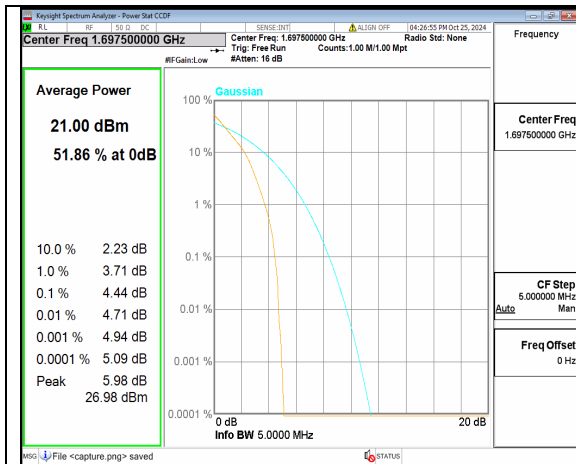
2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.

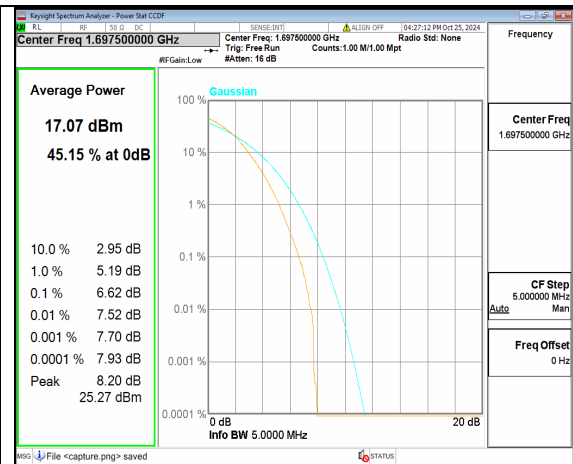
Band	SCS (kHz)	BW (MHz)	ARFCN	Modulation	RB	Result (dB)	Limit (dB)	Verdict
n70	15	5	339500	DFT-s-OFDM PI/2 BPSK	25/0	4.44	13	PASS
n70	15	5	339500	DFT-s-OFDM 256QAM	25/0	6.62	13	PASS
n70	15	5	339500	CP-OFDM QPSK	25/0	7.16	13	PASS
n70	15	5	339500	CP-OFDM 256QAM	25/0	8.41	13	PASS
n70	15	5	340500	DFT-s-OFDM PI/2 BPSK	25/0	4.74	13	PASS
n70	15	5	340500	DFT-s-OFDM 256QAM	25/0	6.54	13	PASS
n70	15	5	340500	CP-OFDM QPSK	25/0	11.89	13	PASS
n70	15	5	340500	CP-OFDM 256QAM	25/0	8.38	13	PASS
n70	15	5	341500	DFT-s-OFDM PI/2 BPSK	25/0	4.31	13	PASS
n70	15	5	341500	DFT-s-OFDM 256QAM	25/0	6.62	13	PASS
n70	15	5	341500	CP-OFDM QPSK	25/0	7.95	13	PASS
n70	15	5	341500	CP-OFDM 256QAM	25/0	8.41	13	PASS
n70	15	10	340000	DFT-s-OFDM PI/2 BPSK	50/0	4.4	13	PASS
n70	15	10	340000	DFT-s-OFDM 256QAM	50/0	6.89	13	PASS
n70	15	10	340000	CP-OFDM QPSK	52/0	7.14	13	PASS
n70	15	10	340000	CP-OFDM 256QAM	52/0	8.39	13	PASS
n70	15	10	340500	DFT-s-OFDM PI/2 BPSK	50/0	4.57	13	PASS
n70	15	10	340500	DFT-s-OFDM 256QAM	50/0	6.76	13	PASS



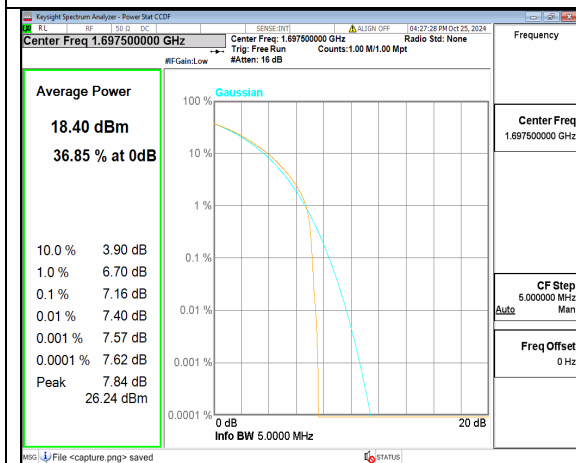
n70	15	10	340500	CP-OFDM QPSK	52/0	8.39	13	PASS
n70	15	10	340500	CP-OFDM 256QAM	52/0	8.41	13	PASS
n70	15	10	341000	DFT-s-OFDM PI/2 BPSK	50/0	4.23	13	PASS
n70	15	10	341000	DFT-s-OFDM 256QAM	50/0	6.79	13	PASS
n70	15	10	341000	CP-OFDM QPSK	52/0	7.01	13	PASS
n70	15	10	341000	CP-OFDM 256QAM	52/0	8.41	13	PASS
n70	15	15	340500	DFT-s-OFDM PI/2 BPSK	75/0	4.47	13	PASS
n70	15	15	340500	DFT-s-OFDM 256QAM	75/0	6.67	13	PASS
n70	15	15	340500	CP-OFDM QPSK	79/0	8.43	13	PASS
n70	15	15	340500	CP-OFDM 256QAM	79/0	8.4	13	PASS



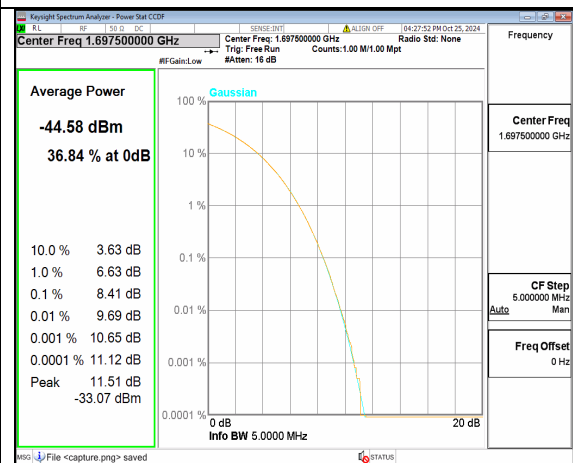
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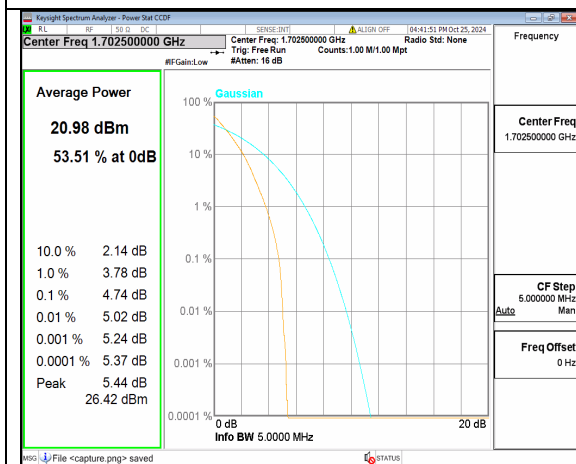
n70 5M DFT-s-OFDM 256QAM Outer_Full Low



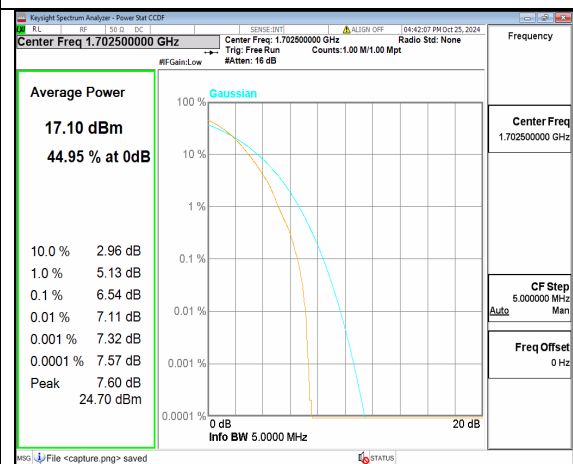
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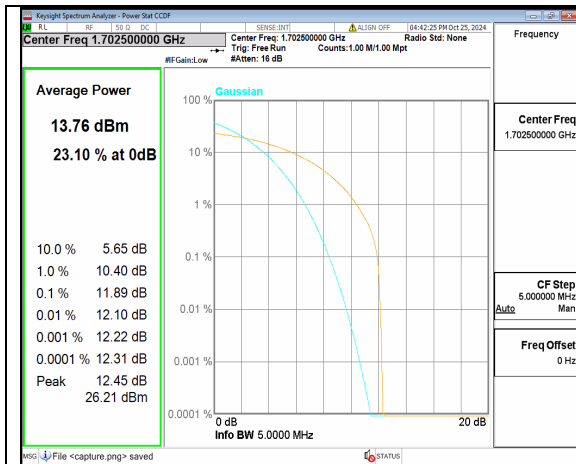
n70 5M CP-OFDM 256QAM Outer_Full Low



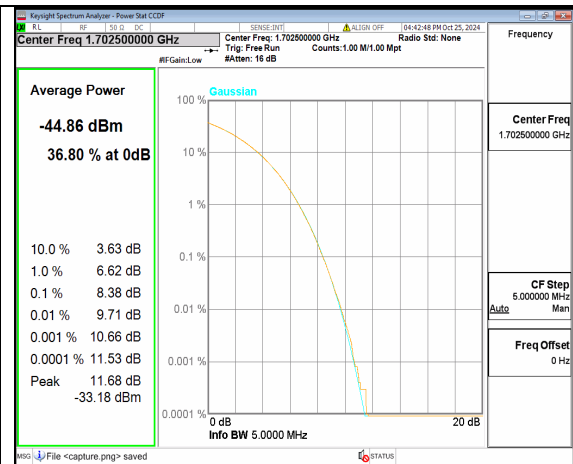
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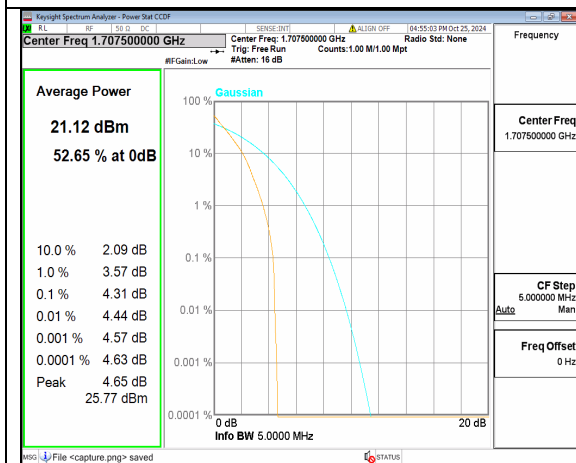
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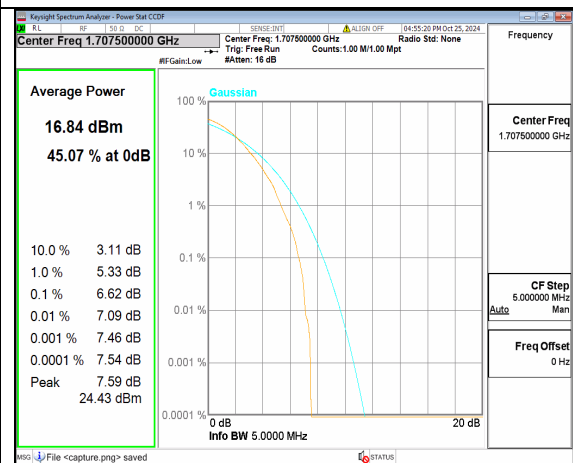
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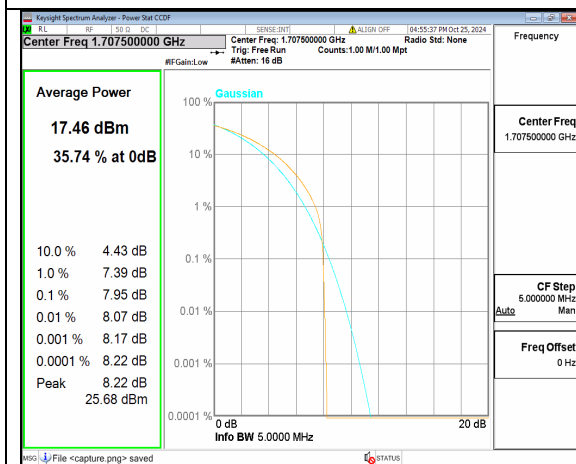
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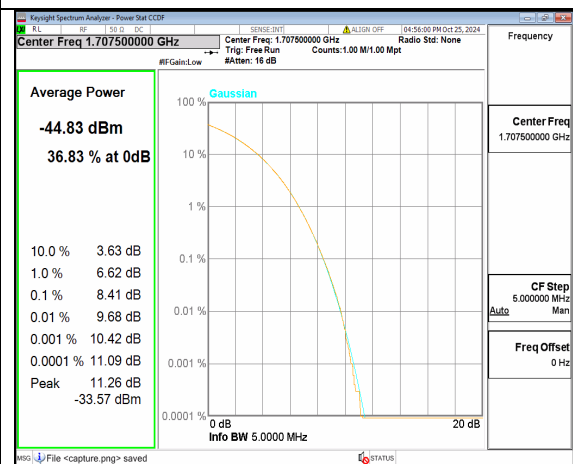
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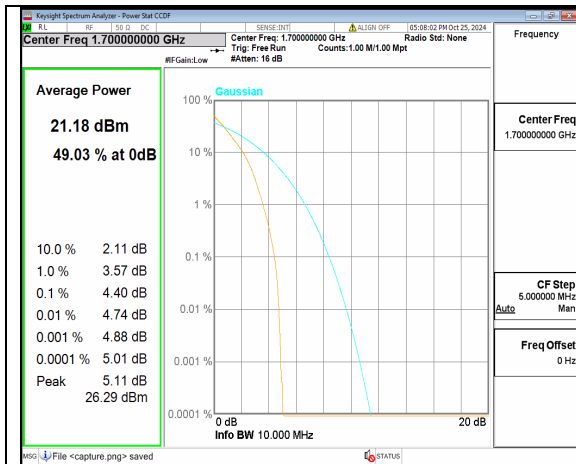
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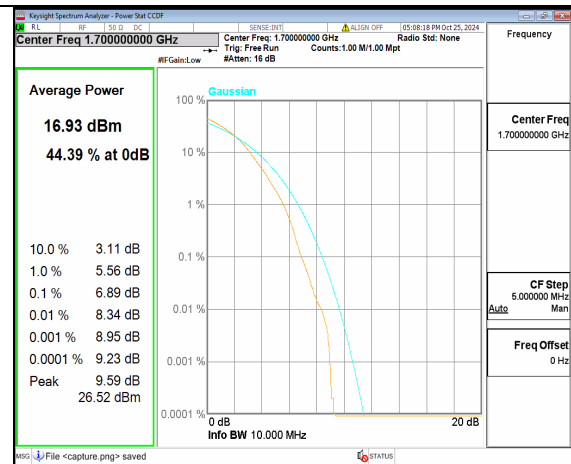
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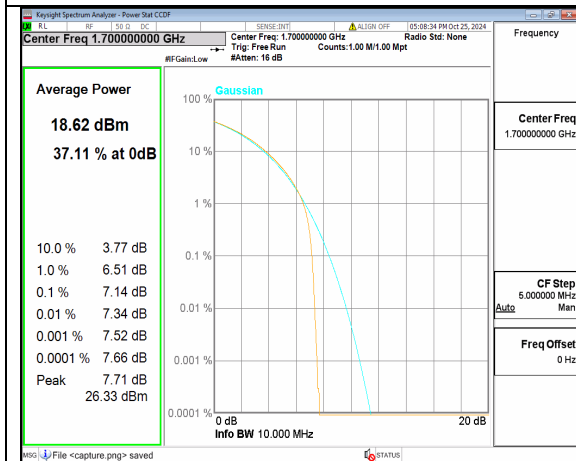
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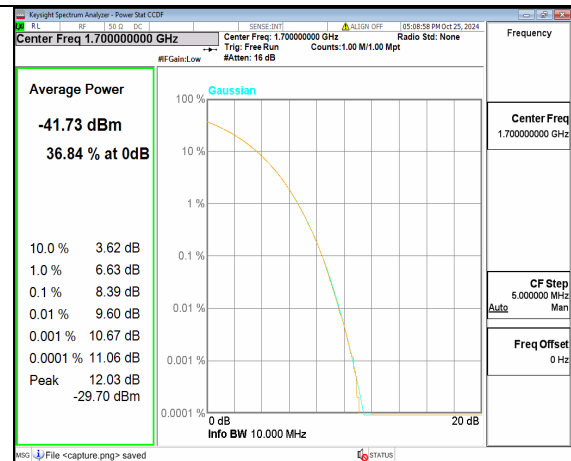
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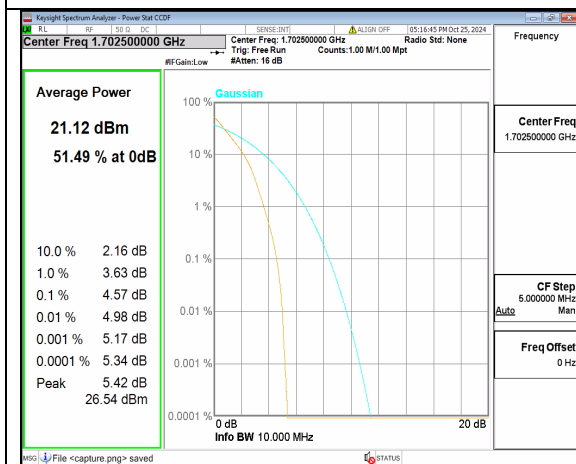
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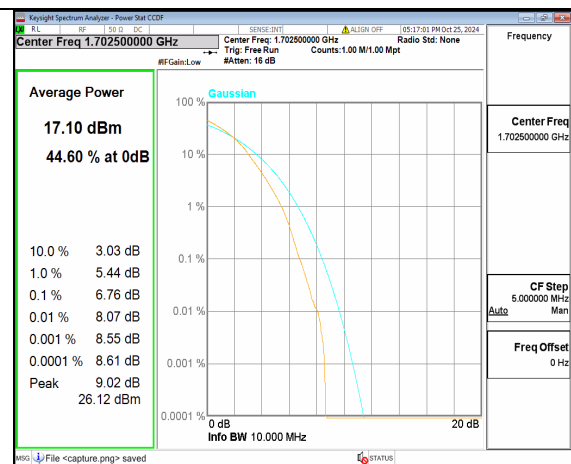
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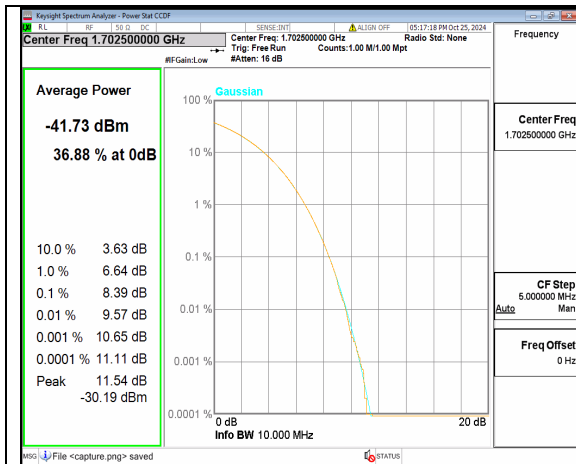
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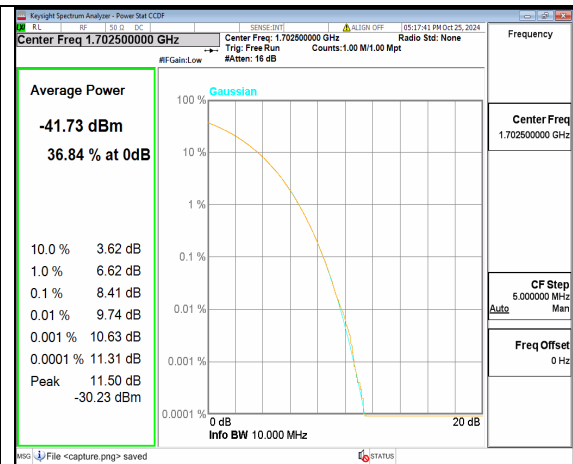
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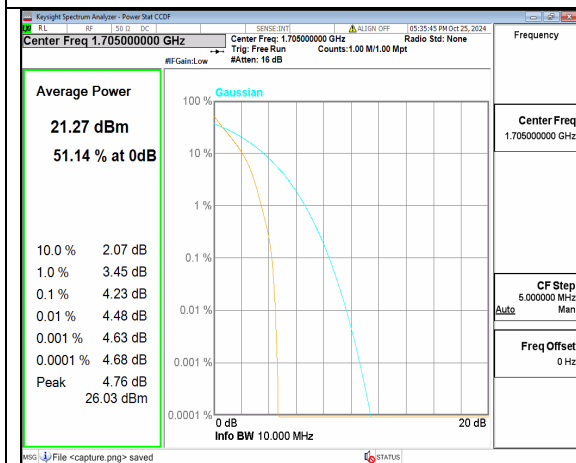
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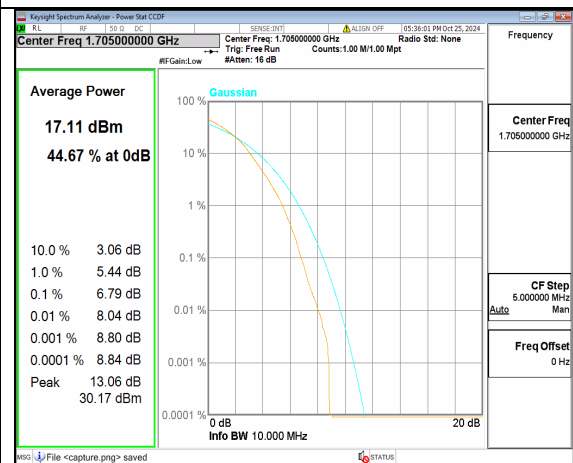
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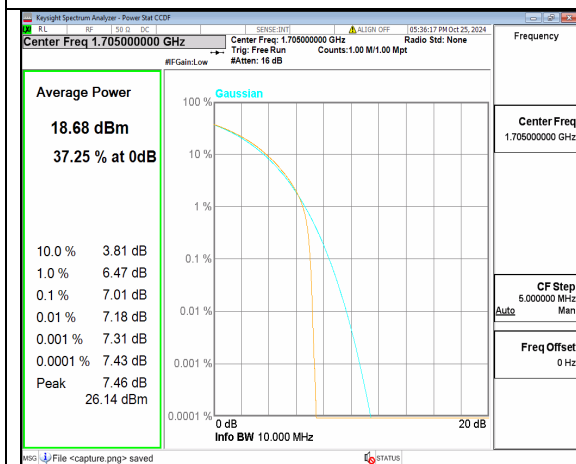
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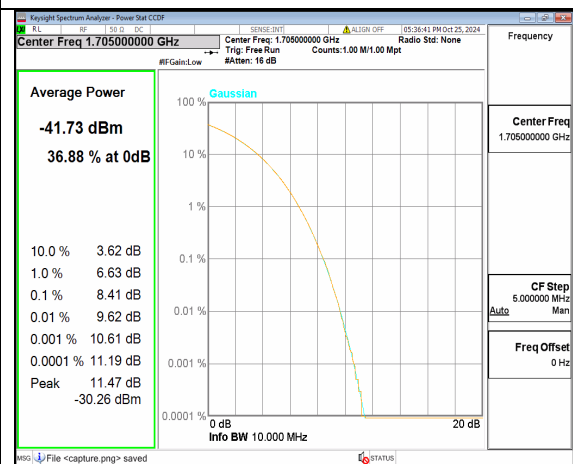
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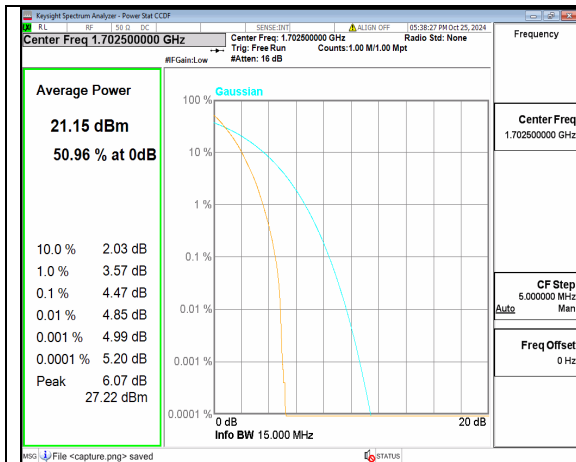
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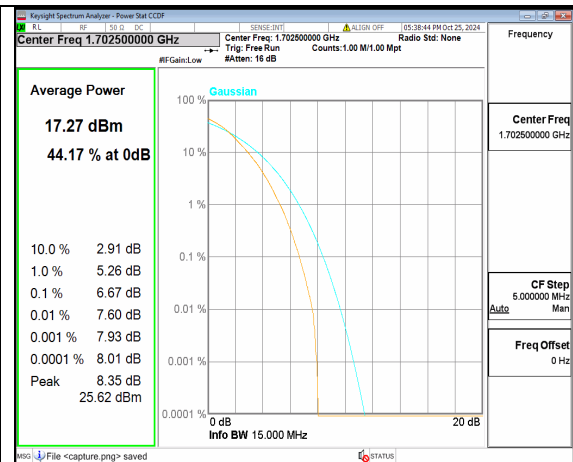
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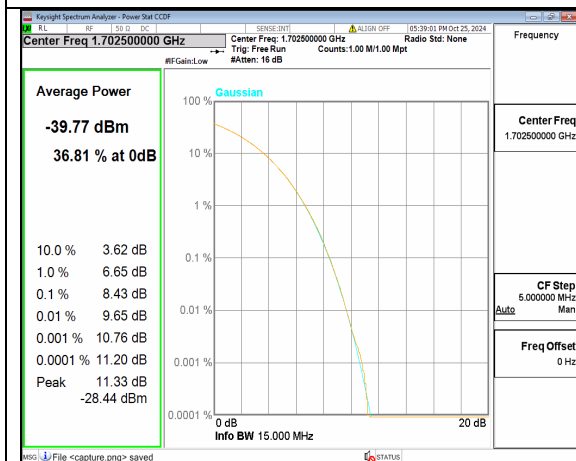
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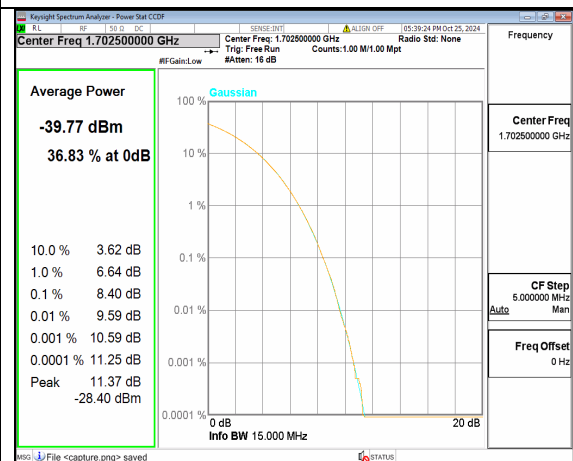
n70 15M DFT-s-OFDM BPSK Outer_Full Mid



n70 15M DFT-s-OFDM 256QAM Outer_Full Mid



n70 15M CP-OFDM QPSK Outer_Full Mid



n70 15M CP-OFDM 256QAM Outer_Full Mid



2.5. Conducted Spurious Emissions

2.5.1. Requirement

According to FCC section 2.1051, section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

According to FCC section 24.238(a) for n2, n25, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Additional to FCC section 22.917(a) for n5, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

According to FCC section 96.41(e) for n48, the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

According to FCC section 27.53(h) for n66, n70, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

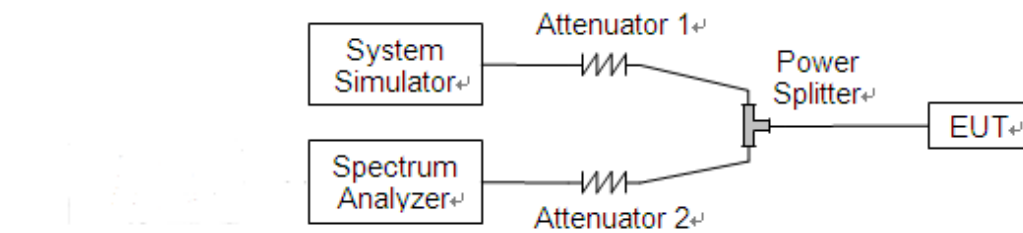
According to FCC section 27.53(m)(4) for n7, n41, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

According to FCC section 27.53(g) for n12, n71, for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(l)(2) for n77, for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

According to FCC section 27.53(n)(2) for n77, for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

