REPORT No.: SZ23120090W02

TEST REPORT

APPLICANT	:	Sonim Technologies, Inc.
PRODUCT NAME	:	5G smartphone
MODEL NAME	:	P200
BRAND NAME	:	Sonim
FCC ID	:	WYPP200
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27
RECEIPT DATE	:	2023-12-21
TEST DATE	:	2024-01-12 to 2024-03-27
ISSUE DATE	:	2024-05-24

Edited by: Liu Yuanxin (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

NOTE: This document is issued by ShenzhenMorlab Communication Technology Co., Ltd., the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for validation and information confirmed at our website.

DIRECTORY

1. Technical Information ····· 3
1.1. Applicant and Manufacturer Information ····· 3
1.2. Equipment Under Test (EUT) Description ····· 3
1.3. Maximum ERP/EIRP and Emission Designator ····· 5
1.4. Test Standards and Results ····· 13
1.5. Environmental Conditions ····· 16
2. Summary Test Results And Description ····· 17
2.1. Transmitter Conducted Output Power ····· 17
2.2. Occupied Bandwidth ····· 80
2.3. Frequency Stability ····· 170
2.4. Peak to Average Ratio ····· 174
2.5. Conducted Spurious Emissions ····· 225
2.6. Band Edge ····· 296
2.7. Radiated Spurious Emissions ····· 331
Annex A Test Uncertainty ····· 386
Annex B Testing Laboratory Information ····· 387

Change History		
Version	Date	Reason for change
1.0	2024-05-24	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Sonim Technologies, Inc.
Applicant Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer:	Sonim Technologies, Inc.
Manufacturer Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	5G smartphone	
Hardware Version:	V1.0	
Software Version:	P200.AT01.30D	
Sample No:	2#	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
SA Band:	n2, n5, n66, n77	
Power Class:	PC2:	n77
	PC3:	n2, n5, n66, n77
EN-DC Band:	n2	DC_5A_n2, DC_12A_n2, DC_14A_n2, DC_66A_n2
	n5	DC_2A_n5, DC_66A_n5
	n66	DC_2A_n66, DC_5A_n66, DC_12A_n66, DC_14A_n66
	n77	DC_2A_n77, DC_5A_n77, DC_7A_n77, DC_12A_n77, DC_14A_n77, DC_66A_n77
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
		Rx:3550 MHz–3700 MHz
	n66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2200MHz
	n77	Tx: 3450MHz-3550MHz

	(enabling bands)	Rx: 3450MHz-3550MHz
		Tx: 3700MHz-3980MHz
		Rx: 3700MHz-3980MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz
	n77	20MHz, 30MHz, 40MHz, 60MHz, 80MHz, 100MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	n2	ANT1: 0.01dBi, ANT5: -0.61dBi,
	n5	ANT2: -3.19dBi
	n66	ANT1: -0.8dBi, ANT5:-1.96dBi,
	n77	ANT10:2.31dBi
Accessory Information:	**Battery :**	
	Brand Name:	N/A
	Model No.:	BAT-05000-11S
	Serial No.:	N/A
	Capacity:	5000mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.
	AC Adapter :	
	Brand Name:	N/A
	Model No.:	1-CHUSQ302-097
	Serial No.:	N/A
	Rated Input:	100-240V~50/60HZ, 0.5A
	Rated Output:	5V⎓3A or 9V⎓2A or 12V⎓1.5A
	Manufacturer:	HUIZHOU PUAN ELEOTRONICS 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: n77 supports both power class 2 and class 3. We have evaluated two power classes respectively by performing full test, for Conducted Output Power .we recorded the test result of two power classes separately, for other test items we only recorded the worst test result (Class 2) in this report.

Note 3: In the same NR frequency band, The measured power in SA mode is higher than that in NSA mode，SA mode is selected to test all test cases.

1.3. Maximum ERP/EIRP and Emission Designator

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

ERP (dBm) = EIPR (dBm) - 2.15

n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4901	4M49G7D
	QPSK	22.83	22.84	0.192	4.5001	4M50G7D
	16QAM	/	/	/	4.4951	4M50W7D
	64QAM	/	/	/	4.4793	4M48W7D
	256QAM	/	/	/	4.4874	4M49W7D
	CP-QPSK	/	/	/	4.4759	4M48G7D
10	PI/2 BPSK	/	/	/	8.9265	8M93G7D
	QPSK	22.82	22.83	0.192	8.9392	8M94G7D
	16QAM	/	/	/	8.9607	8M96W7D
	64QAM	/	/	/	8.9360	8M94W7D
	256QAM	/	/	/	8.9469	8M95W7D
	CP-QPSK	/	/	/	9.3053	9M31G7D
15	PI/2 BPSK	/	/	/	13.430	13M4G7D
	QPSK	22.80	22.81	0.191	13.436	13M4G7D
	16QAM	/	/	/	13.435	13M4W7D
	64QAM	/	/	/	13.400	13M4W7D
	256QAM	/	/	/	13.442	13M4W7D
	CP-QPSK	/	/	/	14.119	14M1G7D
20	PI/2 BPSK	23.04	23.05	0.202	17.890	17M9G7D
	QPSK	23.17	23.18	0.208	17.899	17M9G7D
	16QAM	22.85	22.86	0.193	17.893	17M9W7D
	64QAM	21.25	21.26	0.134	17.915	17M9W7D
	256QAM	19.02	19.03	0.080	17.866	17M9W7D
	CP-QPSK	/	/	/	18.933	18M9G7D

n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4868	4M49G7D
	QPSK	22.96	17.62	0.058	4.5003	4M50G7D
	16QAM	/	/	/	4.4902	4M49W7D
	64QAM	/	/	/	4.4842	4M48W7D
	256QAM	/	/	/	4.4857	4M49W7D
	CP-QPSK	/	/	/	4.4838	4M48G7D
10	PI/2 BPSK	/	/	/	8.9237	8M92G7D
	QPSK	22.91	17.57	0.057	8.9292	8M93G7D
	16QAM	/	/	/	8.9467	8M95W7D
	64QAM	/	/	/	8.9294	8M93W7D
	256QAM	/	/	/	8.9365	8M94W7D
	CP-QPSK	/	/	/	9.2994	9M30G7D
15	PI/2 BPSK	/	/	/	13.426	13M4G7D
	QPSK	22.90	17.56	0.057	13.445	13M5G7D
	16QAM	/	/	/	13.449	13M5W7D
	64QAM	/	/	/	13.414	13M4W7D
	256QAM	/	/	/	13.445	13M5W7D
	CP-QPSK	/	/	/	14.124	14M1G7D
20	PI/2 BPSK	23.01	17.67	0.058	17.865	17M9G7D
	QPSK	23.03	17.69	0.059	17.856	17M9G7D
	16QAM	22.90	17.56	0.057	17.889	17M9W7D
	64QAM	21.36	16.02	0.040	17.895	17M9W7D
	256QAM	19.23	13.89	0.024	17.863	17M9W7D
	CP-QPSK	/	/	/	18.906	18M9G7D

n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4.4905	4M49G7D
	QPSK	23.43	22.63	0.183	4.4921	4M49G7D
	16QAM	/	/	/	4.4972	4M50W7D
	64QAM	/	/	/	4.4778	4M48W7D
	256QAM	/	/	/	4.4843	4M48W7D
	CP-QPSK	/	/	/	4.4764	4M48G7D
10	PI/2 BPSK	/	/	/	8.933	8M93G7D
	QPSK	23.38	22.58	0.181	8.9279	8M93G7D
	16QAM	/	/	/	8.9502	8M95W7D
	64QAM	/	/	/	8.9365	8M94W7D
	256QAM	/	/	/	8.9365	8M94W7D
	CP-QPSK	/	/	/	9.291	9M29G7D
15	PI/2 BPSK	/	/	/	13.422	13M4G7D
	QPSK	23.43	22.63	0.183	13.428	13M4G7D
	16QAM	/	/	/	13.432	13M4W7D
	64QAM	/	/	/	13.4	13M4W7D
	256QAM	/	/	/	13.438	13M4W7D
	CP-QPSK	/	/	/	14.121	14M1G7D
20	PI/2 BPSK	23.48	22.68	0.185	17.89	17M9G7D
	QPSK	23.52	22.72	0.187	17.886	17M9G7D
	16QAM	23.45	22.65	0.184	17.909	17M9W7D
	64QAM	22.03	21.23	0.133	17.911	17M9W7D
	256QAM	19.61	18.81	0.076	17.87	17M9W7D
	CP-QPSK	/	/	/	18.92	18M9G7D

n77(3450-3550MHz)(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.873	17M9G7D
	QPSK	26.64	28.95	0.785	17.839	17M8G7D
	16QAM	/	/	/	17.868	17M9W7D
	64QAM	/	/	/	17.86	17M9W7D
	256QAM	/	/	/	17.853	17M9W7D
	CP-QPSK	/	/	/	17.89	17M9G7D
30	PI/2 BPSK	/	/	/	26.793	26M8G7D
	QPSK	26.65	28.96	0.787	26.821	26M8G7D
	16QAM	/	/	/	26.83	26M8W7D
	64QAM	/	/	/	26.816	26M8W7D
	256QAM	/	/	/	26.823	26M8W7D
	CP-QPSK	/	/	/	26.846	26M9G7D
40	PI/2 BPSK	/	/	/	35.733	35M7G7D
	QPSK	26.62	28.93	0.782	35.768	35M8G7D
	16QAM	/	/	/	35.808	35M8W7D
	64QAM	/	/	/	35.812	35M8W7D
	256QAM	/	/	/	35.78	35M8W7D
	CP-QPSK	/	/	/	35.715	35M7G7D
60	PI/2 BPSK	/	/	/	57.935	57M9G7D
	QPSK	26.57	28.88	0.773	57.863	57M9G7D
	16QAM	/	/	/	57.816	57M8W7D
	64QAM	/	/	/	57.95	58M0W7D
	256QAM	/	/	/	57.918	57M9W7D
	CP-QPSK	/	/	/	57.793	57M8G7D
80	PI/2 BPSK	/	/	/	77.126	77M1G7D
	QPSK	26.57	28.88	0.773	77.126	77M1G7D
	16QAM	/	/	/	77.099	77M1W7D
	64QAM	/	/	/	77.141	77M1W7D
	256QAM	/	/	/	76.968	77M0W7D
	CP-QPSK	/	/	/	77.089	77M1G7D
100	PI/2 BPSK	26.55	28.86	0.769	96.383	96M4G7D
	QPSK	26.66	28.97	0.789	96.364	96M4G7D
	16QAM	26.37	28.68	0.738	96.414	96M4W7D

	64QAM	24.56	26.87	0.486	96.383	96M4W7D
	256QAM	21.84	24.15	0.260	96.466	96M5W7D
	CP-QPSK	/	/	/	96.238	96M2G7D

n77(3450-3550MHz)(PC3)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	22.44	24.75	0.299	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	22.50	24.81	0.303	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	22.51	24.82	0.303	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	22.50	24.81	0.303	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
	CP-QPSK	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	22.46	24.77	0.300	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/

	CP-QPSK	/	/	/	/	/
100	PI/2 BPSK	22.53	24.84	0.305	/	/
	QPSK	22.54	24.85	0.305	/	/
	16QAM	22.40	24.71	0.296	/	/
	64QAM	20.91	23.22	0.210	/	/
	256QAM	18.74	21.05	0.127	/	/
	CP-QPSK	/	/	/	/	/

n77(3700-3980MHz)(PC2)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17.838	17M8G7D
	QPSK	27.01	29.32	0.855	17.841	17M8G7D
	16QAM	/	/	/	17.897	17M9W7D
	64QAM	/	/	/	17.824	17M8W7D
	256QAM	/	/	/	17.835	17M8W7D
	CP-QPSK	/	/	/	17.918	17M9G7D
30	PI/2 BPSK	/	/	/	26.807	26M8G7D
	QPSK	26.93	29.24	0.839	26.804	26M8G7D
	16QAM	/	/	/	26.818	26M8W7D
	64QAM	/	/	/	26.813	26M8W7D
	256QAM	/	/	/	26.848	26M9W7D
	CP-QPSK	/	/	/	26.794	26M8G7D
40	PI/2 BPSK	/	/	/	35.751	35M8G7D
	QPSK	27.08	29.39	0.869	35.782	35M8G7D
	16QAM	/	/	/	35.81	35M8W7D
	64QAM	/	/	/	35.797	35M8W7D
	256QAM	/	/	/	35.773	35M8W7D
	CP-QPSK	/	/	/	35.685	35M7G7D
60	PI/2 BPSK	/	/	/	57.978	58M0G7D
	QPSK	27.18	29.49	0.889	57.882	57M9G7D
	16QAM	/	/	/	57.951	58M0W7D
	64QAM	/	/	/	57.985	58M0W7D
	256QAM	/	/	/	57.952	58M0W7D
	CP-QPSK	/	/	/	57.869	57M9G7D
80	PI/2 BPSK	/	/	/	77.048	77M1G7D

	QPSK	27.14	29.45	0.881	77.162	77M2G7D
	16QAM	/	/	/	77.063	77M1W7D
	64QAM	/	/	/	77.064	77M1W7D
	256QAM	/	/	/	77.108	77M1W7D
	CP-QPSK	/	/	/	77.104	77M1G7D
100	PI/2 BPSK	27.56	29.87	0.971	96.454	96M5G7D
	QPSK	27.60	29.91	0.979	96.449	96M5G7D
	16QAM	26.00	28.31	0.678	96.453	96M5W7D
	64QAM	24.47	26.78	0.476	96.359	96M4W7D
	256QAM	22.32	24.63	0.290	96.294	96M3W7D
	CP-QPSK	/	/	/	96.215	96M2G7D

n77(3700-3980MHz)(PC3)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (MHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	22.48	24.79	0.301	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	22.44	24.75	0.299	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	22.49	24.80	0.302	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	22.48	24.79	0.301	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/

	QPSK	22.54	24.85	0.305	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	22.50	24.81	0.303	/	/
	QPSK	22.56	24.87	0.307	/	/
	16QAM	22.39	24.70	0.295	/	/
	64QAM	20.91	23.22	0.210	/	/
	256QAM	/	/	/	/	/

1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part 27 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

n2			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit≤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)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -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

n66			
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”.

n77(3450~3550MHz)			
Item	**FCC Rule No.**	**Requirements**	**Result**
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(K)(3)	EIRP ≤ 1W	PASS
Peak-Average Ratio	§27.50(K)(4)	≤ 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)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	≤ -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 ≤ 1W	PASS
Peak-Average Ratio	§27.50(j)(4)	≤ 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)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	≤ -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	Li Huaijie	PASS	Nodeviation
Occupied Bandwidth	Li Huaijie	PASS	Nodeviation
Frequency Stability	Li Huaijie	PASS	Nodeviation
Peak to Average Radio	Li Huaijie	PASS	Nodeviation
Conducted Spurious Emissions	Li Huaijie	PASS	Nodeviation
Band Edge	Li Huaijie	PASS	Nodeviation
Radiated Spurious Emissions	Gao Jianrou Su Zhan	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.

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, the ERP of Mobile and portable stations are limited to 2 watts EIRP.

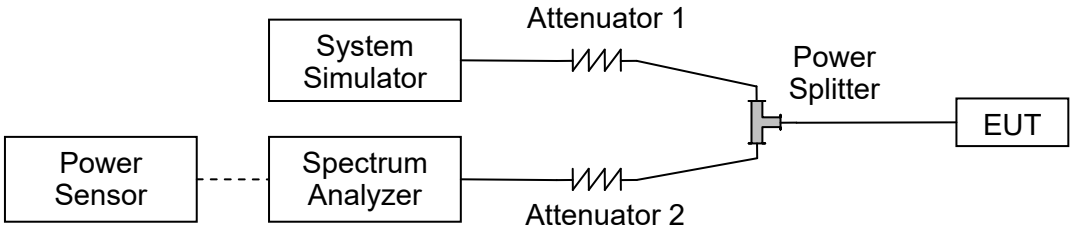
According to FCC section 27.50 (d)(4) for n66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

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(j)(3) for n77(3700-3980MHz),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 (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.

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

n2 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.70	22.78	22.59
20		1	53	22.74	22.63	22.58
20		1	104	22.74	22.68	22.65
20		50	1	22.83	22.80	22.59
20		50	25	22.85	22.87	22.65
20		50	50	22.82	22.82	22.69
20		100	0	22.88	23.04	22.70
20	DFT-s-OFDM QPSK	1	1	22.97	23.17	23.10
20		1	53	22.71	22.73	22.60
20		1	104	22.70	22.59	22.69
20		50	1	22.81	22.96	22.78
20		50	25	22.81	22.86	22.70
20		50	50	22.85	22.74	22.61
20		100	0	22.82	22.73	22.72
20	DFT-s-OFDM 16QAM	1	1	22.80	22.85	22.65
20	DFT-s-OFDM 64QAM	1	1	21.22	21.25	21.07
20	DFT-s-OFDM 256QAM	1	1	18.93	19.00	19.02
20	CP-OFDM QPSK	1	1	22.18	22.13	22.00
20	CP-OFDM 16QAM	1	1	21.66	21.62	21.51
20	CP-OFDM 64QAM	1	1	19.73	19.79	19.73
20	CP-OFDM 256QAM	1	1	17.00	17.04	16.97
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.79	22.80	22.67
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.82	22.80	22.66
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.80	22.83	22.78

n5 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.89	22.85	22.85
20		1	53	22.83	22.97	22.95
20		1	104	22.96	22.85	22.81
20		50	1	22.97	22.98	22.97
20		50	25	22.93	22.96	22.92
20		50	50	22.97	23.01	22.97
20		100	0	22.98	22.99	22.94
20	DFT-s-OFDM QPSK	1	1	22.84	23.03	22.92
20		1	53	22.81	22.87	22.92
20		1	104	22.90	22.83	22.83
20		50	1	22.88	22.99	22.95
20		50	25	22.96	22.98	22.97
20		50	50	22.90	22.98	22.95
20		100	0	22.91	22.90	22.98
20	DFT-s-OFDM 16QAM	1	1	22.86	22.90	22.89
20	DFT-s-OFDM 64QAM	1	1	21.34	21.35	21.36
20	DFT-s-OFDM 256QAM	1	1	19.23	19.18	19.16
20	CP-OFDM QPSK	1	1	22.26	22.24	22.26
20	CP-OFDM 16QAM	1	1	21.79	21.80	21.83
20	CP-OFDM 64QAM	1	1	19.91	19.90	19.91
20	CP-OFDM 256QAM	1	1	17.30	17.20	17.31
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.89	22.90	22.86
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.86	22.80	22.91
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.90	22.96	22.91

n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	23.37	23.41	23.35
20		1	53	23.44	23.34	23.30
20		1	104	23.38	23.31	23.33
20		50	1	23.42	23.46	23.35
20		50	25	23.44	23.48	23.40
20		50	50	23.46	23.44	23.32
20		100	0	23.45	23.43	23.41
20	DFT-s-OFDM QPSK	1	1	23.37	23.52	23.33
20		1	53	23.48	23.29	23.18
20		1	104	23.43	23.37	23.29
20		50	1	23.46	23.44	23.31
20		50	25	23.48	23.39	23.31
20		50	50	23.47	23.36	23.31
20		100	0	23.50	23.35	23.35
20	DFT-s-OFDM 16QAM	1	1	23.42	23.45	23.41
20	DFT-s-OFDM 64QAM	1	1	21.83	22.03	21.84
20	DFT-s-OFDM 256QAM	1	1	19.46	19.61	19.48
20	CP-OFDM QPSK	1	1	22.77	22.86	22.76
20	CP-OFDM 16QAM	1	1	22.24	22.35	22.23
20	CP-OFDM 64QAM	1	1	20.38	20.51	20.37
20	CP-OFDM 256QAM	1	1	17.55	17.65	17.56
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	23.42	23.43	23.37
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.32	23.38	23.33
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.42	23.43	23.40

n77(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		26.55	
100		1	136		26.14	
100		1	271		25.35	
100		135	1		25.92	
100		135	67		26.21	
100		135	136		25.07	
100		270	0		25.60	
100	DFT-s-OFDM QPSK	1	1		26.66	
100		1	136		26.15	
100		1	271		25.35	
100		135	1		26.41	
100		135	67		26.21	
100		135	136		25.57	
100		270	0		24.89	
100	DFT-s-OFDM 16QAM	1	1		26.37	
100	DFT-s-OFDM 64QAM	1	1		24.56	
100	DFT-s-OFDM 256QAM	1	1		21.84	
100	CP-OFDM QPSK	1	1		24.26	
100	CP-OFDM 16QAM	1	1		24.53	
100	CP-OFDM 64QAM	1	1		22.63	
100	CP-OFDM 256QAM	1	1		19.83	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.57	26.44	26.39
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.57	26.42	26.33
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.62	26.58	26.16
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.65	26.61	25.86
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.64	26.49	25.64

n77(3450-3550MHz) (PC3)						
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		22.42	
100		1	136		22.45	
100		1	271		22.25	
100		135	1		22.50	
100		135	67		22.53	
100		135	136		22.10	
100		270	0		22.47	
100	DFT-s-OFDM QPSK	1	1		22.54	
100		1	136		22.45	
100		1	271		22.27	
100		135	1		22.49	
100		135	67		22.42	
100		135	136		22.09	
100		270	0		22.47	
100	DFT-s-OFDM 16QAM	1	1		22.40	
100	DFT-s-OFDM 64QAM	1	1		20.91	
100	DFT-s-OFDM 256QAM	1	1		18.74	
100	CP-OFDM QPSK	1	1		21.94	
100	CP-OFDM 16QAM	1	1		21.48	
100	CP-OFDM 64QAM	1	1		19.57	
100	CP-OFDM 256QAM	1	1		16.78	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	22.46	22.40	22.46
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	22.50	22.33	22.49
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	22.51	22.46	22.43
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	22.50	22.43	22.48
Channel				630668	633334	636000

Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	22.38	22.44	22.30

n77(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	26.60	26.21	27.04
100		1	136	26.42	26.67	27.39
100		1	271	26.26	27.12	27.42
100		135	1	26.29	25.79	26.70
100		135	67	26.37	26.69	27.42
100		135	136	25.58	26.05	27.56
100		270	0	25.91	26.25	26.97
100	DFT-s-OFDM QPSK	1	1	27.39	27.60	27.56
100		1	136	26.36	26.72	26.73
100		1	271	26.18	27.11	27.43
100		135	1	27.05	27.32	27.26
100		135	67	26.39	26.70	26.84
100		135	136	25.10	25.59	26.20
100		270	0	25.43	25.74	26.18
100	DFT-s-OFDM 16QAM	1	1	25.54	25.16	26.00
100	DFT-s-OFDM 64QAM	1	1	24.20	24.28	24.47
100	DFT-s-OFDM 256QAM	1	1	21.94	21.90	22.32
100	CP-OFDM QPSK	1	1	25.13	25.18	25.47
100	CP-OFDM 16QAM	1	1	24.59	24.75	25.09
100	CP-OFDM 64QAM	1	1	22.72	22.86	23.23
100	CP-OFDM 256QAM	1	1	19.88	19.74	20.38
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.62	26.37	27.14
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.68	26.27	27.18
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	27.08	26.67	26.60
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98

30	DFT-s-OFDM QPSK	1	1	26.93	26.59	26.49
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	27.01	26.69	27.00

n77(3700-3980MHz) (PC3)						
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	22.50	21.78	22.48
100		1	136	22.00	22.43	21.98
100		1	271	21.68	22.49	22.38
100		135	1	22.49	21.96	22.38
100		135	67	22.07	22.42	22.11
100		135	136	21.67	22.27	22.16
100		270	0	22.05	22.32	22.16
100	DFT-s-OFDM QPSK	1	1	22.45	22.56	22.46
100		1	136	21.99	22.49	22.00
100		1	271	21.70	22.51	22.39
100		135	1	22.34	22.52	22.38
100		135	67	22.02	22.51	22.08
100		135	136	21.66	22.31	22.19
100		270	0	22.05	22.38	22.18
100	DFT-s-OFDM 16QAM	1	1	22.39	21.75	22.37
100	DFT-s-OFDM 64QAM	1	1	20.88	20.32	20.91
100	DFT-s-OFDM 256QAM	1	1	18.73	18.08	18.76
100	CP-OFDM QPSK	1	1	21.95	21.34	21.97
100	CP-OFDM 16QAM	1	1	21.49	20.87	21.49
100	CP-OFDM 64QAM	1	1	19.50	18.92	19.55
100	CP-OFDM 256QAM	1	1	16.73	16.12	16.76
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	22.54	21.89	22.29
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	22.48	21.95	21.97
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	22.43	22.36	22.49

Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	22.44	22.32	22.36
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	22.43	22.48	22.39

B5_n2 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.84	22.99	23.16
20		1	53	22.97	23.08	23.19
20		1	104	23.08	23.08	23.20
20		50	1	22.85	23.19	23.16
20		50	25	22.91	23.20	23.14
20		50	50	23.10	23.20	23.20
20		100	0	22.93	23.20	23.19
20	DFT-s-OFDM QPSK	1	1	22.79	23.15	23.05
20		1	53	22.85	23.14	23.09
20		1	104	23.00	23.14	23.10
20		50	1	22.88	23.12	23.11
20		50	25	22.97	23.13	23.14
20		50	50	22.98	23.10	23.05
20		100	0	22.97	23.07	23.06
20	DFT-s-OFDM 16QAM	1	1	22.90	23.15	23.14
20	DFT-s-OFDM 64QAM	1	1	21.37	21.64	21.62
20	DFT-s-OFDM 256QAM	1	1	19.47	19.70	19.69
20	CP-OFDM QPSK	1	1	22.32	22.62	22.61
20	CP-OFDM 16QAM	1	1	21.89	22.12	22.12
20	CP-OFDM 64QAM	1	1	20.43	20.64	20.66
20	CP-OFDM 256QAM	1	1	17.57	17.67	17.85
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.96	23.13	23.14
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.00	23.12	23.08
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.01	23.14	23.12

B12_n2 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.16	22.19	22.08
20		1	53	22.21	22.16	21.98
20		1	104	22.22	22.11	22.11
20		50	1	22.23	22.25	22.04
20		50	25	22.31	22.26	22.12
20		50	50	22.33	22.20	22.11
20		100	0	22.33	22.24	22.08
20	DFT-s-OFDM QPSK	1	1	22.25	22.36	22.20
20		1	53	22.22	22.14	22.01
20		1	104	22.14	22.04	22.11
20		50	1	22.21	22.31	22.08
20		50	25	22.24	22.28	22.09
20		50	50	22.24	22.24	22.10
20		100	0	22.24	22.28	22.11
20	DFT-s-OFDM 16QAM	1	1	22.17	22.30	22.18
20	DFT-s-OFDM 64QAM	1	1	20.67	20.78	20.57
20	DFT-s-OFDM 256QAM	1	1	18.71	18.82	18.60
20	CP-OFDM QPSK	1	1	21.64	21.76	21.65
20	CP-OFDM 16QAM	1	1	21.15	21.28	21.08
20	CP-OFDM 64QAM	1	1	19.71	19.80	19.65
20	CP-OFDM 256QAM	1	1	16.79	16.87	16.77
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.21	22.22	22.12
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.29	22.34	22.16
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.32	22.28	22.29

B14_n2 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.18	22.20	22.08
20		1	53	22.27	22.18	22.03
20		1	104	22.27	22.10	22.11
20		50	1	22.19	22.26	22.04
20		50	25	22.25	22.26	22.12
20		50	50	22.29	22.17	22.11
20		100	0	22.28	22.30	22.13
20	DFT-s-OFDM QPSK	1	1	22.32	22.44	22.24
20		1	53	22.17	22.17	22.01
20		1	104	22.18	22.03	22.13
20		50	1	22.21	22.26	22.10
20		50	25	22.28	22.17	22.11
20		50	50	22.29	22.15	22.09
20		100	0	22.28	22.20	22.12
20	DFT-s-OFDM 16QAM	1	1	22.19	22.38	22.32
20	DFT-s-OFDM 64QAM	1	1	20.70	20.96	20.76
20	DFT-s-OFDM 256QAM	1	1	18.78	18.80	18.56
20	CP-OFDM QPSK	1	1	21.67	21.84	21.57
20	CP-OFDM 16QAM	1	1	21.21	21.11	21.07
20	CP-OFDM 64QAM	1	1	19.73	19.82	19.77
20	CP-OFDM 256QAM	1	1	16.82	16.86	16.62
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.27	22.29	22.17
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.34	22.42	22.23
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.32	22.40	22.27

B66_n2 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.74	22.66	22.39
20		1	53	22.59	22.42	22.29
20		1	104	22.69	22.34	22.42
20		50	1	22.71	22.66	22.37
20		50	25	22.73	22.53	22.41
20		50	50	22.78	22.49	22.42
20		100	0	22.77	22.58	22.44
20	DFT-s-OFDM QPSK	1	1	22.74	22.83	22.62
20		1	53	22.62	22.44	22.32
20		1	104	22.76	22.37	22.48
20		50	1	22.77	22.66	22.42
20		50	25	22.66	22.57	22.46
20		50	50	22.67	22.55	22.46
20		100	0	22.71	22.62	22.43
20	DFT-s-OFDM 16QAM	1	1	22.75	22.73	22.80
20	DFT-s-OFDM 64QAM	1	1	21.22	21.42	21.19
20	DFT-s-OFDM 256QAM	1	1	19.32	19.32	19.09
20	CP-OFDM QPSK	1	1	22.18	22.26	22.08
20	CP-OFDM 16QAM	1	1	21.71	21.68	21.42
20	CP-OFDM 64QAM	1	1	20.34	20.28	20.09
20	CP-OFDM 256QAM	1	1	17.37	17.32	17.14
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.80	22.66	22.38
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.75	22.71	22.24
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.79	22.56	22.48

B2_n5 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.85	22.83	22.83
20		1	53	22.69	22.70	22.69
20		1	104	22.55	22.58	22.53
20		50	1	22.88	22.85	22.82
20		50	25	22.81	22.78	22.81
20		50	50	22.77	22.72	22.71
20		100	0	22.83	22.82	22.81
20	DFT-s-OFDM QPSK	1	1	22.93	22.85	22.83
20		1	53	22.73	22.72	22.71
20		1	104	22.60	22.58	22.57
20		50	1	22.84	22.85	22.80
20		50	25	22.82	22.83	22.78
20		50	50	22.77	22.76	22.74
20		100	0	22.84	22.81	22.83
20	DFT-s-OFDM 16QAM	1	1	22.90	22.90	22.84
20	DFT-s-OFDM 64QAM	1	1	21.44	21.44	21.43
20	DFT-s-OFDM 256QAM	1	1	19.53	19.52	19.46
20	CP-OFDM QPSK	1	1	22.41	22.39	22.46
20	CP-OFDM 16QAM	1	1	21.96	21.96	21.79
20	CP-OFDM 64QAM	1	1	20.46	20.46	20.46
20	CP-OFDM 256QAM	1	1	17.54	17.50	17.43
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.82	22.88	22.81
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.83	22.75	22.65
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.86	22.77	22.63

B66_n5 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	DFT-s-OFDM PI/2 BPSK	1	1	22.87	22.87	22.83
20		1	53	22.76	22.76	22.68
20		1	104	22.62	22.57	22.57
20		50	1	22.85	22.82	22.81
20		50	25	22.79	22.84	22.75
20		50	50	22.76	22.76	22.63
20		100	0	22.82	22.79	22.79
20	DFT-s-OFDM QPSK	1	1	22.94	22.85	22.76
20		1	53	22.73	22.72	22.72
20		1	104	22.60	22.60	22.59
20		50	1	22.91	22.76	22.70
20		50	25	22.76	22.76	22.70
20		50	50	22.73	22.76	22.70
20		100	0	22.69	22.72	22.80
20	DFT-s-OFDM 16QAM	1	1	22.86	22.76	22.88
20	DFT-s-OFDM 64QAM	1	1	21.52	21.49	21.47
20	DFT-s-OFDM 256QAM	1	1	19.49	19.35	19.41
20	CP-OFDM QPSK	1	1	22.49	22.38	22.35
20	CP-OFDM 16QAM	1	1	21.70	21.81	21.74
20	CP-OFDM 64QAM	1	1	20.49	20.46	20.35
20	CP-OFDM 256QAM	1	1	17.46	17.33	17.42
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.88	22.79	22.73
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.78	22.81	22.67
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.87	22.71	22.67

B2_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.73	22.69	22.37
20		1	53	22.77	22.36	22.15
20		1	104	22.77	22.40	22.34
20		50	1	22.83	22.67	22.35
20		50	25	22.79	22.47	22.25
20		50	50	22.87	22.40	22.35
20		100	0	22.85	22.48	22.28
20	DFT-s-OFDM QPSK	1	1	22.90	22.81	22.73
20		1	53	22.77	22.36	22.19
20		1	104	22.80	22.43	22.35
20		50	1	22.81	22.62	22.33
20		50	25	22.85	22.44	22.24
20		50	50	22.88	22.43	22.30
20		100	0	22.80	22.49	22.29
20	DFT-s-OFDM 16QAM	1	1	22.83	22.81	22.73
20	DFT-s-OFDM 64QAM	1	1	21.35	21.29	21.09
20	DFT-s-OFDM 256QAM	1	1	19.35	19.39	19.02
20	CP-OFDM QPSK	1	1	22.31	22.34	22.01
20	CP-OFDM 16QAM	1	1	21.84	21.79	21.36
20	CP-OFDM 64QAM	1	1	20.38	20.31	20.02
20	CP-OFDM 256QAM	1	1	17.43	17.40	17.05
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	20.16	22.62	22.22
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.73	22.51	22.16
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.72	22.44	22.40

B5_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.37	22.12	21.91
20		1	53	22.37	22.08	21.96
20		1	104	22.26	21.97	21.96
20		50	1	22.42	22.11	22.01
20		50	25	22.39	22.13	21.91
20		50	50	22.38	22.13	21.89
20		100	0	22.34	22.12	21.85
20	DFT-s-OFDM QPSK	1	1	22.36	22.51	22.29
20		1	53	22.36	22.07	21.81
20		1	104	22.25	21.94	21.81
20		50	1	22.37	22.40	22.25
20		50	25	22.35	22.18	21.91
20		50	50	22.36	22.11	21.95
20		100	0	22.30	22.15	21.93
20	DFT-s-OFDM 16QAM	1	1	22.37	22.39	22.19
20	DFT-s-OFDM 64QAM	1	1	20.89	20.86	20.66
20	DFT-s-OFDM 256QAM	1	1	18.86	18.62	18.41
20	CP-OFDM QPSK	1	1	21.98	21.78	21.62
20	CP-OFDM 16QAM	1	1	21.42	20.84	20.81
20	CP-OFDM 64QAM	1	1	19.89	19.74	19.42
20	CP-OFDM 256QAM	1	1	16.89	16.77	16.50
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.38	22.18	21.96
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.31	22.10	21.98
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.41	22.18	22.02

B12_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.39	22.21	22.00
20		1	53	22.40	22.10	21.95
20		1	104	22.28	21.97	21.85
20		50	1	22.36	22.24	22.08
20		50	25	22.39	22.21	22.01
20		50	50	22.33	22.13	21.94
20		100	0	22.37	22.20	21.92
20	DFT-s-OFDM QPSK	1	1	22.41	22.57	22.35
20		1	53	22.28	22.06	21.78
20		1	104	22.24	22.00	21.80
20		50	1	22.34	22.42	22.27
20		50	25	22.38	22.21	21.95
20		50	50	22.33	22.19	21.93
20		100	0	22.37	22.21	21.96
20	DFT-s-OFDM 16QAM	1	1	22.54	22.44	22.20
20	DFT-s-OFDM 64QAM	1	1	21.04	20.95	20.68
20	DFT-s-OFDM 256QAM	1	1	18.82	18.72	18.46
20	CP-OFDM QPSK	1	1	21.95	21.83	21.59
20	CP-OFDM 16QAM	1	1	21.10	20.95	20.80
20	CP-OFDM 64QAM	1	1	19.94	19.85	19.54
20	CP-OFDM 256QAM	1	1	16.84	16.76	16.54
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.38	22.24	21.99
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.29	22.15	21.92
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.38	22.10	21.93

B14_n66 (PC3)						
BW [MHz]	Modulation	RB num	RB start	Low Channel	Middle Channel	High Channel
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM PI/2 BPSK	1	1	22.34	22.15	22.03
20		1	53	22.33	22.01	21.83
20		1	104	22.26	21.93	21.83
20		50	1	22.31	22.13	22.07
20		50	25	22.35	22.17	21.91
20		50	50	22.36	22.04	21.94
20		100	0	22.32	22.07	21.91
20	DFT-s-OFDM QPSK	1	1	22.55	22.37	22.32
20		1	53	22.34	22.00	21.79
20		1	104	22.24	21.96	21.86
20		50	1	22.38	22.22	22.14
20		50	25	22.35	22.05	21.96
20		50	50	22.36	22.06	21.95
20		100	0	22.33	22.09	21.99
20	DFT-s-OFDM 16QAM	1	1	22.49	22.39	22.21
20	DFT-s-OFDM 64QAM	1	1	20.98	20.86	20.64
20	DFT-s-OFDM 256QAM	1	1	18.76	18.65	18.56
20	CP-OFDM QPSK	1	1	21.89	21.76	21.62
20	CP-OFDM 16QAM	1	1	21.04	20.86	20.83
20	CP-OFDM 64QAM	1	1	19.81	19.72	19.61
20	CP-OFDM 256QAM	1	1	16.76	16.71	16.59
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.23	22.18	22.03
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.33	22.04	21.89
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.25	22.10	21.94

B2_n77(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		26.50	
100		1	136		26.19	
100		1	271		25.47	
100		135	1		25.90	
100		135	67		26.53	
100		135	136		25.26	
100		270	0		25.79	
100	DFT-s-OFDM QPSK	1	1		26.58	
100		1	136		26.10	
100		1	271		25.52	
100		135	1		26.41	
100		135	67		26.21	
100		135	136		25.77	
100		270	0		25.18	
100	DFT-s-OFDM 16QAM	1	1		25.57	
100	DFT-s-OFDM 64QAM	1	1		24.51	
100	DFT-s-OFDM 256QAM	1	1		25.16	
100	CP-OFDM QPSK	1	1		25.06	
100	CP-OFDM 16QAM	1	1		24.56	
100	CP-OFDM 64QAM	1	1		23.10	
100	CP-OFDM 256QAM	1	1		20.15	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.43	26.41	26.35
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.51	26.39	26.24
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.55	26.47	26.10
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.52	26.50	26.02
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.53	26.35	26.05

B5_n77(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		26.51	
100		1	136		26.14	
100		1	271		25.55	
100		135	1		25.96	
100		135	67		26.40	
100		135	136		25.57	
100		270	0		25.71	
100	DFT-s-OFDM QPSK	1	1		26.59	
100		1	136		26.15	
100		1	271		25.57	
100		135	1		26.38	
100		135	67		26.21	
100		135	136		25.74	
100		270	0		25.25	
100	DFT-s-OFDM 16QAM	1	1		25.65	
100	DFT-s-OFDM 64QAM	1	1		24.53	
100	DFT-s-OFDM 256QAM	1	1		22.13	
100	CP-OFDM QPSK	1	1		25.11	
100	CP-OFDM 16QAM	1	1		24.39	
100	CP-OFDM 64QAM	1	1		23.05	
100	CP-OFDM 256QAM	1	1		20.04	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.48	26.36	26.30
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.44	26.42	26.29
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.55	26.53	26.14
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.57	26.43	26.08
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.55	26.42	26.03

B7_n77(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		25.68	
100		1	136		25.13	
100		1	271		25.54	
100		135	1		25.85	
100		135	67		25.25	
100		135	136		25.28	
100		270	0		25.66	
100	DFT-s-OFDM QPSK	1	1		25.90	
100		1	136		25.16	
100		1	271		25.51	
100		135	1		25.55	
100		135	67		25.17	
100		135	136		24.70	
100		270	0		24.17	
100	DFT-s-OFDM 16QAM	1	1		24.56	
100	DFT-s-OFDM 64QAM	1	1		23.63	
100	DFT-s-OFDM 256QAM	1	1		21.07	
100	CP-OFDM QPSK	1	1		24.11	
100	CP-OFDM 16QAM	1	1		23.56	
100	CP-OFDM 64QAM	1	1		22.05	
100	CP-OFDM 256QAM	1	1		19.14	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.46	25.45	25.30
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.51	25.42	25.27
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.75	25.60	25.22
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	25.73	25.53	24.81
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.68	25.39	24.66

B12_n77(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		26.58	
100		1	136		26.15	
100		1	271		25.54	
100		135	1		25.90	
100		135	67		26.16	
100		135	136		25.17	
100		270	0		25.69	
100	DFT-s-OFDM QPSK	1	1		26.64	
100		1	136		26.12	
100		1	271		25.43	
100		135	1		26.43	
100		135	67		26.18	
100		135	136		25.68	
100		270	0		25.22	
100	DFT-s-OFDM 16QAM	1	1		25.66	
100	DFT-s-OFDM 64QAM	1	1		24.63	
100	DFT-s-OFDM 256QAM	1	1		22.01	
100	CP-OFDM QPSK	1	1		25.01	
100	CP-OFDM 16QAM	1	1		24.49	
100	CP-OFDM 64QAM	1	1		23.01	
100	CP-OFDM 256QAM	1	1		20.05	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.46	26.42	26.28
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.41	26.39	26.27
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.71	26.51	26.13
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.63	26.43	25.86
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.61	26.35	25.64

B14_n77(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		26.59	
100		1	136		26.13	
100		1	271		25.47	
100		135	1		25.94	
100		135	67		26.16	
100		135	136		25.17	
100		270	0		25.73	
100	DFT-s-OFDM QPSK	1	1		26.65	
100		1	136		26.14	
100		1	271		25.45	
100		135	1		26.54	
100		135	67		26.19	
100		135	136		24.71	
100		270	0		25.22	
100	DFT-s-OFDM 16QAM	1	1		25.65	
100	DFT-s-OFDM 64QAM	1	1		24.60	
100	DFT-s-OFDM 256QAM	1	1		22.16	
100	CP-OFDM QPSK	1	1		25.01	
100	CP-OFDM 16QAM	1	1		24.50	
100	CP-OFDM 64QAM	1	1		23.06	
100	CP-OFDM 256QAM	1	1		20.04	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.49	26.37	26.29
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.47	26.32	26.30
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.64	26.55	26.16
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.59	26.48	26.13
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.63	26.45	26.17

B66_n77(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		26.52	
100		1	136		26.15	
100		1	271		25.49	
100		135	1		25.90	
100		135	67		26.24	
100		135	136		25.22	
100		270	0		25.74	
100	DFT-s-OFDM QPSK	1	1		26.61	
100		1	136		26.18	
100		1	271		25.50	
100		135	1		25.37	
100		135	67		26.24	
100		135	136		24.73	
100		270	0		25.26	
100	DFT-s-OFDM 16QAM	1	1		25.53	
100	DFT-s-OFDM 64QAM	1	1		24.07	
100	DFT-s-OFDM 256QAM	1	1		21.94	
100	CP-OFDM QPSK	1	1		25.03	
100	CP-OFDM 16QAM	1	1		24.69	
100	CP-OFDM 64QAM	1	1		23.11	
100	CP-OFDM 256QAM	1	1		19.94	
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	26.52	26.38	26.36
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	26.50	26.31	26.28
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	26.55	26.51	26.02
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM QPSK	1	1	26.58	26.46	26.10
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	26.57	26.44	26.11

B2_n77(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	26.66	26.19	26.93
100		1	136	26.40	26.60	26.99
100		1	271	26.10	26.94	27.05
100		135	1	26.42	25.94	26.62
100		135	67	26.47	26.61	27.09
100		135	136	25.71	26.13	27.13
100		270	0	26.08	26.29	26.76
100	DFT-s-OFDM QPSK	1	1	26.65	27.22	26.85
100		1	136	26.36	26.60	26.25
100		1	271	26.10	26.83	27.02
100		135	1	25.88	26.75	25.80
100		135	67	26.36	26.64	26.38
100		135	136	25.10	25.67	25.72
100		270	0	25.49	25.80	25.69
100	DFT-s-OFDM 16QAM	1	1	25.66	25.38	26.09
100	DFT-s-OFDM 64QAM	1	1	24.35	23.99	24.72
100	DFT-s-OFDM 256QAM	1	1	22.05	21.75	22.46
100	CP-OFDM QPSK	1	1	25.14	24.84	25.45
100	CP-OFDM 16QAM	1	1	24.81	24.46	25.02
100	CP-OFDM 64QAM	1	1	23.34	22.98	23.54
100	CP-OFDM 256QAM	1	1	20.03	19.78	20.44
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.66	26.33	27.00
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.62	26.22	26.90
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	26.68	26.54	26.00
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	26.63	26.55	25.87
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	26.87	26.67	26.36

B5_n77(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	26.60	26.24	26.85
100		1	136	26.38	26.65	27.05
100		1	271	26.09	27.00	27.26
100		135	1	26.43	25.87	26.53
100		135	67	26.45	26.67	27.03
100		135	136	25.69	26.15	27.03
100		270	0	26.01	26.22	26.78
100	DFT-s-OFDM QPSK	1	1	27.40	27.50	27.47
100		1	136	26.34	26.65	26.15
100		1	271	26.01	26.65	26.92
100		135	1	27.26	27.35	27.19
100		135	67	26.36	26.65	26.28
100		135	136	25.14	25.64	25.62
100		270	0	25.46	25.73	25.59
100	DFT-s-OFDM 16QAM	1	1	25.64	25.21	25.95
100	DFT-s-OFDM 64QAM	1	1	24.24	23.82	24.56
100	DFT-s-OFDM 256QAM	1	1	22.23	21.76	22.54
100	CP-OFDM QPSK	1	1	25.23	24.78	25.54
100	CP-OFDM 16QAM	1	1	24.68	24.35	25.00
100	CP-OFDM 64QAM	1	1	23.20	22.77	23.53
100	CP-OFDM 256QAM	1	1	20.22	19.77	20.57
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.64	26.89	27.09
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.68	26.80	27.08
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	26.95	26.91	26.75
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	26.84	26.82	26.67
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	26.88	26.70	26.70

B7_n77(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	24.54	24.24	24.91
100		1	136	24.35	24.68	25.07
100		1	271	24.05	25.00	25.79
100		135	1	24.41	23.90	24.59
100		135	67	24.44	24.67	25.06
100		135	136	23.66	24.20	25.16
100		270	0	24.01	24.37	24.81
100	DFT-s-OFDM QPSK	1	1	25.60	25.91	25.52
100		1	136	24.39	24.64	25.06
100		1	271	24.09	24.98	25.82
100		135	1	25.06	25.41	25.29
100		135	67	24.40	24.66	25.06
100		135	136	23.12	23.67	24.65
100		270	0	23.55	23.77	24.30
100	DFT-s-OFDM 16QAM	1	1	23.81	23.30	24.10
100	DFT-s-OFDM 64QAM	1	1	22.29	21.84	22.63
100	DFT-s-OFDM 256QAM	1	1	20.05	19.68	20.37
100	CP-OFDM QPSK	1	1	23.21	22.87	23.55
100	CP-OFDM 16QAM	1	1	22.76	22.40	23.17
100	CP-OFDM 64QAM	1	1	21.34	20.90	21.63
100	CP-OFDM 256QAM	1	1	18.09	17.67	18.44
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	24.63	24.30	25.07
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	24.70	24.69	25.08
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	24.74	24.58	25.57
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	24.84	24.52	25.60
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	24.94	24.65	25.55

B12_n77(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	26.56	26.15	26.87
100		1	136	26.35	26.67	26.94
100		1	271	26.06	27.01	27.08
100		135	1	26.40	25.87	26.55
100		135	67	26.43	26.70	27.05
100		135	136	25.68	26.19	27.05
100		270	0	26.01	26.25	26.79
100	DFT-s-OFDM QPSK	1	1	27.05	27.28	27.09
100		1	136	26.39	26.66	26.36
100		1	271	26.09	26.90	27.12
100		135	1	26.73	26.99	26.88
100		135	67	26.42	26.67	26.48
100		135	136	25.19	25.61	25.83
100		270	0	25.52	25.77	25.77
100	DFT-s-OFDM 16QAM	1	1	25.83	25.31	26.11
100	DFT-s-OFDM 64QAM	1	1	24.43	23.97	24.76
100	DFT-s-OFDM 256QAM	1	1	22.18	21.73	22.43
100	CP-OFDM QPSK	1	1	25.20	24.76	25.50
100	CP-OFDM 16QAM	1	1	24.80	24.35	25.12
100	CP-OFDM 64QAM	1	1	23.30	22.88	23.64
100	CP-OFDM 256QAM	1	1	20.12	19.67	20.45
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.61	26.29	26.92
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.67	26.27	26.84
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	26.92	26.61	26.58
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	26.74	26.52	26.41
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	26.84	26.64	26.39

B14_n77(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	26.56	26.15	26.90
100		1	136	26.38	26.66	26.95
100		1	271	26.09	26.94	27.42
100		135	1	26.42	25.89	26.58
100		135	67	26.45	26.71	27.08
100		135	136	25.71	26.18	27.06
100		270	0	26.02	26.25	26.70
100	DFT-s-OFDM QPSK	1	1	27.29	27.38	27.42
100		1	136	26.40	26.57	26.32
100		1	271	26.08	26.85	27.09
100		135	1	27.10	27.32	27.33
100		135	67	26.43	26.59	26.41
100		135	136	25.21	25.62	25.73
100		270	0	25.52	25.76	25.69
100	DFT-s-OFDM 16QAM	1	1	25.80	25.37	25.94
100	DFT-s-OFDM 64QAM	1	1	24.41	24.06	24.56
100	DFT-s-OFDM 256QAM	1	1	22.07	21.71	22.40
100	CP-OFDM QPSK	1	1	25.22	24.80	25.44
100	CP-OFDM 16QAM	1	1	24.82	24.40	24.98
100	CP-OFDM 64QAM	1	1	23.31	22.89	23.51
100	CP-OFDM 256QAM	1	1	20.13	19.68	20.38
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.61	26.31	26.95
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.57	26.19	26.86
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	26.93	26.63	25.98
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	26.77	26.55	25.82
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	26.84	26.65	26.29

B66_n77(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	26.56	26.20	26.91
100		1	136	26.36	26.62	27.01
100		1	271	26.05	26.97	27.34
100		135	1	26.39	25.87	26.62
100		135	67	26.42	26.62	27.10
100		135	136	25.63	26.16	27.11
100		270	0	25.99	26.32	26.75
100	DFT-s-OFDM QPSK	1	1	27.17	27.23	27.36
100		1	136	26.34	26.63	26.26
100		1	271	26.04	26.78	27.02
100		135	1	27.00	27.05	27.20
100		135	67	26.39	26.61	26.39
100		135	136	25.16	25.68	25.74
100		270	0	25.50	25.82	25.70
100	DFT-s-OFDM 16QAM	1	1	25.65	25.41	25.98
100	DFT-s-OFDM 64QAM	1	1	24.23	24.09	24.69
100	DFT-s-OFDM 256QAM	1	1	22.21	21.82	22.38
100	CP-OFDM QPSK	1	1	25.18	24.82	25.47
100	CP-OFDM 16QAM	1	1	24.81	24.44	25.08
100	CP-OFDM 64QAM	1	1	23.26	22.96	23.60
100	CP-OFDM 256QAM	1	1	20.06	19.75	20.44
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM QPSK	1	1	26.64	26.25	26.95
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM QPSK	1	1	26.63	26.24	26.41
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	26.95	26.56	25.93
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM QPSK	1	1	26.80	26.49	25.79
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM QPSK	1	1	26.82	26.67	26.36

Effective Radiated Power and Effective Isotropic Radiated Power:

n2 (PC3)									
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				372000	372000	376000	376000	380000	380000
Frequency (MHz)				1860.00	1860.00	1880.00	1880.00	1900.00	1900.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.71	0.187	22.79	0.190	22.60	0.182
20		1	53	22.75	0.188	22.64	0.184	22.59	0.182
20		1	104	22.75	0.188	22.69	0.186	22.66	0.185
20		50	1	22.84	0.192	22.81	0.191	22.60	0.182
20		50	25	22.86	0.193	22.88	0.194	22.66	0.185
20		50	50	22.83	0.192	22.83	0.192	22.70	0.186
20		100	0	22.89	0.195	23.05	0.202	22.71	0.187
20	DFT-s-OFDM QPSK	1	1	22.98	0.199	23.18	0.208	23.11	0.205
20		1	53	22.72	0.187	22.74	0.188	22.61	0.182
20		1	104	22.71	0.187	22.60	0.182	22.70	0.186
20		50	1	22.82	0.191	22.97	0.198	22.79	0.190
20		50	25	22.82	0.191	22.87	0.194	22.71	0.187
20		50	50	22.86	0.193	22.75	0.188	22.62	0.183
20		100	0	22.83	0.192	22.74	0.188	22.73	0.187
20	DFT-s-OFDM 16QAM	1	1	22.81	0.191	22.86	0.193	22.66	0.185
20	DFT-s-OFDM 64QAM	1	1	21.23	0.133	21.26	0.134	21.08	0.128
20	DFT-s-OFDM 256QAM	1	1	18.94	0.078	19.01	0.080	19.03	0.080
20	CP-OFDM QPSK	1	1	22.19	0.166	22.14	0.164	22.01	0.159
20	CP-OFDM 16QAM	1	1	21.67	0.147	21.63	0.146	21.52	0.142
20	CP-OFDM 64QAM	1	1	19.74	0.094	19.80	0.095	19.74	0.094
20	CP-OFDM 256QAM	1	1	17.01	0.050	17.05	0.051	16.98	0.050
Channel				371500	371500	376000	376000	380500	380500
Frequency (MHz)				1857.50	1857.50	1880.00	1880.00	1902.50	1902.50
15	DFT-s-OFDM QPSK	1	1	22.80	0.191	22.81	0.191	22.68	0.185
Channel				371000	371000	376000	376000	381000	381000
Frequency (MHz)				1855.00	1855.00	1880.00	1880.00	1905.00	1905.00
10	DFT-s-OFDM QPSK	1	1	22.83	0.192	22.81	0.191	22.67	0.185
Channel				370500	370500	376000	376000	381500	381500

Frequency (MHz)				1852.50	1852.50	1880.00	1880.00	1907.50	1907.50
5	DFT-s-OFDM QPSK	1	1	22.81	0.191	22.84	0.192	22.79	0.190

n5 (PC3)									
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				166800	166800	167300	167300	167800	167800
Frequency (MHz)				834.00	834.00	836.50	836.50	839.00	839.00
20	DFT-s-OFDM PI/2 BPSK	1	1	17.55	0.057	17.51	0.056	17.51	0.056
20		1	53	17.49	0.056	17.63	0.058	17.61	0.058
20		1	104	17.62	0.058	17.51	0.056	17.47	0.056
20		50	1	17.63	0.058	17.64	0.058	17.63	0.058
20		50	25	17.59	0.057	17.62	0.058	17.58	0.057
20		50	50	17.63	0.058	17.67	0.058	17.63	0.058
20		100	0	17.64	0.058	17.65	0.058	17.60	0.058
20	DFT-s-OFDM QPSK	1	1	17.50	0.056	17.69	0.059	17.58	0.057
20		1	53	17.47	0.056	17.53	0.057	17.58	0.057
20		1	104	17.56	0.057	17.49	0.056	17.49	0.056
20		50	1	17.54	0.057	17.65	0.058	17.61	0.058
20		50	25	17.62	0.058	17.64	0.058	17.63	0.058
20		50	50	17.56	0.057	17.64	0.058	17.61	0.058
20		100	0	17.57	0.057	17.56	0.057	17.64	0.058
20	DFT-s-OFDM 16QAM	1	1	17.52	0.056	17.56	0.057	17.55	0.057
20	DFT-s-OFDM 64QAM	1	1	16.00	0.040	16.01	0.040	16.02	0.040
20	DFT-s-OFDM 256QAM	1	1	13.89	0.024	13.84	0.024	13.82	0.024
20	CP-OFDM QPSK	1	1	16.92	0.049	16.90	0.049	16.92	0.049
20	CP-OFDM 16QAM	1	1	16.45	0.044	16.46	0.044	16.49	0.045
20	CP-OFDM 64QAM	1	1	14.57	0.029	14.56	0.029	14.57	0.029
20	CP-OFDM 256QAM	1	1	11.96	0.016	11.86	0.015	11.97	0.016
Channel				166300	166300	167300	167300	168300	168300
Frequency (MHz)				831.50	831.50	836.50	836.50	841.50	841.50
15	DFT-s-OFDM QPSK	1	1	17.55	0.057	17.56	0.057	17.52	0.056
Channel				165800	165800	167300	167300	168800	168800
Frequency (MHz)				829.00	829.00	836.50	836.50	844.00	844.00
10	DFT-s-OFDM	1	1	17.52	0.056	17.46	0.056	17.57	0.057

	QPSK								
Channel				165300	165300	167300	167300	169300	169300
Frequency (MHz)				826.50	826.50	836.50	836.50	846.50	846.50
5	DFT-s-OFDM QPSK	1	1	17.56	0.057	17.62	0.058	17.57	0.057

n66 (PC3)									
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				344000	344000	349000	349000	354000	354000
Frequency (MHz)				1720.00	1720.00	1745.00	1745.00	1770.00	1770.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.57	0.181	22.61	0.182	22.55	0.180
20		1	53	22.64	0.184	22.54	0.179	22.50	0.178
20		1	104	22.58	0.181	22.51	0.178	22.53	0.179
20		50	1	22.62	0.183	22.66	0.185	22.55	0.180
20		50	25	22.64	0.184	22.68	0.185	22.60	0.182
20		50	50	22.66	0.185	22.64	0.184	22.52	0.179
20		100	0	22.65	0.184	22.63	0.183	22.61	0.182
20	DFT-s-OFDM QPSK	1	1	22.57	0.181	22.72	0.187	22.53	0.179
20		1	53	22.68	0.185	22.49	0.177	22.38	0.173
20		1	104	22.63	0.183	22.57	0.181	22.49	0.177
20		50	1	22.66	0.185	22.64	0.184	22.51	0.178
20		50	25	22.68	0.185	22.59	0.182	22.51	0.178
20		50	50	22.67	0.185	22.56	0.180	22.51	0.178
20		100	0	22.70	0.186	22.55	0.180	22.55	0.180
20	DFT-s-OFDM 16QAM	1	1	22.62	0.183	22.65	0.184	22.61	0.182
20	DFT-s-OFDM 64QAM	1	1	21.03	0.127	21.23	0.133	21.04	0.127
20	DFT-s-OFDM 256QAM	1	1	18.66	0.073	18.81	0.076	18.68	0.074
20	CP-OFDM QPSK	1	1	21.97	0.157	22.06	0.161	21.96	0.157
20	CP-OFDM 16QAM	1	1	21.44	0.139	21.55	0.143	21.43	0.139
20	CP-OFDM 64QAM	1	1	19.58	0.091	19.71	0.094	19.57	0.091
20	CP-OFDM 256QAM	1	1	16.75	0.047	16.85	0.048	16.76	0.047
Channel				343500	343500	349000	349000	354500	354500
Frequency (MHz)				1717.50	1717.50	1745.00	1745.00	1772.50	1772.50
15	DFT-s-OFDM QPSK	1	1	22.62	0.183	22.63	0.183	22.57	0.181
Channel				343000	343000	349000	349000	355000	355000

Frequency (MHz)				1715.00	1715.00	1745.00	1745.00	1775.00	1775.00
10	DFT-s-OFDM QPSK	1	1	22.52	0.179	22.58	0.181	22.53	0.179
Channel				342500	342500	349000	349000	355500	355500
Frequency (MHz)				1712.50	1712.50	1745.00	1745.00	1777.50	1777.50
5	DFT-s-OFDM QPSK	1	1	22.62	0.183	22.63	0.183	22.60	0.182

n77(3450-3550MHz) (PC3)									
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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	24.73	0.297	/	/
100		1	136	/	/	24.76	0.299	/	/
100		1	271	/	/	24.56	0.286	/	/
100		135	1	/	/	24.81	0.303	/	/
100		135	67	/	/	24.84	0.305	/	/
100		135	136	/	/	24.41	0.276	/	/
100		270	0	/	/	24.78	0.301	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	24.85	0.305	/	/
100		1	136	/	/	24.76	0.299	/	/
100		1	271	/	/	24.58	0.287	/	/
100		135	1	/	/	24.80	0.302	/	/
100		135	67	/	/	24.73	0.297	/	/
100		135	136	/	/	24.40	0.275	/	/
100		270	0	/	/	24.78	0.301	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	24.71	0.296	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	23.22	0.210	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	21.05	0.127	/	/
100	CP-OFDM QPSK	1	1	/	/	24.25	0.266	/	/
100	CP-OFDM 16QAM	1	1	/	/	23.79	0.239	/	/
100	CP-OFDM 64QAM	1	1	/	/	21.88	0.154	/	/
100	CP-OFDM 256QAM	1	1	/	/	19.09	0.081	/	/
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	24.77	0.300	24.71	0.296	24.77	0.300
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	24.81	0.303	24.64	0.291	24.80	0.302
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	24.82	0.303	24.77	0.300	24.74	0.298
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	24.81	0.303	24.74	0.298	24.79	0.301
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	24.69	0.294	24.75	0.299	24.61	0.289

n77(3700-3980MHz) (PC3)									
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	24.81	0.303	24.09	0.256	24.79	0.301
100		1	136	24.31	0.270	24.74	0.298	24.29	0.269
100		1	271	23.99	0.251	24.80	0.302	24.69	0.294
100		135	1	24.80	0.302	24.27	0.267	24.69	0.294
100		135	67	24.38	0.274	24.73	0.297	24.42	0.277
100		135	136	23.98	0.250	24.58	0.287	24.47	0.280
100		270	0	24.36	0.273	24.63	0.290	24.47	0.280
100	DFT-s-OFDM QPSK	1	1	24.76	0.299	24.87	0.307	24.77	0.300
100		1	136	24.30	0.269	24.80	0.302	24.31	0.270
100		1	271	24.01	0.252	24.82	0.303	24.70	0.295
100		135	1	24.65	0.292	24.83	0.304	24.69	0.294
100		135	67	24.33	0.271	24.82	0.303	24.39	0.275
100		135	136	23.97	0.249	24.62	0.290	24.50	0.282
100		270	0	24.36	0.273	24.69	0.294	24.49	0.281
100	DFT-s-OFDM 16QAM	1	1	24.70	0.295	24.06	0.255	24.68	0.294
100	DFT-s-OFDM 64QAM	1	1	23.19	0.208	22.63	0.183	23.22	0.210
100	DFT-s-OFDM 256QAM	1	1	21.04	0.127	20.39	0.109	21.07	0.128
100	CP-OFDM QPSK	1	1	24.26	0.267	23.65	0.232	24.28	0.268
100	CP-OFDM 16QAM	1	1	23.80	0.240	23.18	0.208	23.80	0.240
100	CP-OFDM	1	1	21.81	0.152	21.23	0.133	21.86	0.153

	64QAM								
100	CP-OFDM 256QAM	1	1	19.04	0.080	18.43	0.070	19.07	0.081
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	24.85	0.305	24.20	0.263	24.60	0.288
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	24.79	0.301	24.26	0.267	24.28	0.268
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	24.74	0.298	24.67	0.293	24.80	0.302
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	24.75	0.299	24.63	0.290	24.67	0.293
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	24.74	0.298	24.79	0.301	24.70	0.295

n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	28.86	0.769	/	/
100		1	136	/	/	28.45	0.700	/	/
100		1	271	/	/	27.66	0.583	/	/
100		135	1	/	/	28.23	0.665	/	/
100		135	67	/	/	28.52	0.711	/	/
100		135	136	/	/	27.38	0.547	/	/
100		270	0	/	/	27.91	0.618	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	28.97	0.789	/	/
100		1	136	/	/	28.46	0.701	/	/
100		1	271	/	/	27.66	0.583	/	/
100		135	1	/	/	28.72	0.745	/	/
100		135	67	/	/	28.52	0.711	/	/
100		135	136	/	/	27.88	0.614	/	/
100		270	0	/	/	27.20	0.525	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	28.68	0.738	/	/

100	DFT-s-OFDM 64QAM	1	1	/	/	26.87	0.486	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.15	0.260	/	/
100	CP-OFDM QPSK	1	1	/	/	26.57	0.454	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.84	0.483	/	/
100	CP-OFDM 64QAM	1	1	/	/	24.94	0.312	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.14	0.164	/	/
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	28.88	0.773	28.75	0.750	28.70	0.741
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	28.88	0.773	28.73	0.746	28.64	0.731
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	28.93	0.782	28.89	0.774	28.47	0.703
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	28.96	0.787	28.92	0.780	28.17	0.656
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	28.95	0.785	28.80	0.759	27.95	0.624

n77(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	28.91	0.778	28.52	0.711	29.35	0.861
100		1	136	28.73	0.746	28.98	0.791	29.70	0.933
100		1	271	28.57	0.719	29.43	0.877	29.73	0.940
100		135	1	28.60	0.724	28.10	0.646	29.01	0.796
100		135	67	28.68	0.738	29.00	0.794	29.73	0.940
100		135	136	27.89	0.615	28.36	0.685	29.87	0.971
100		270	0	28.22	0.664	28.56	0.718	29.28	0.847
100	DFT-s-OFDM	1	1	29.70	0.933	29.91	0.979	29.87	0.971

100	QPSK	1	136	28.67	0.736	29.03	0.800	29.04	0.802
100		1	271	28.49	0.706	29.42	0.875	29.74	0.942
100		135	1	29.36	0.863	29.63	0.918	29.57	0.906
100		135	67	28.70	0.741	29.01	0.796	29.15	0.822
100		135	136	27.41	0.551	27.90	0.617	28.51	0.710
100		270	0	27.74	0.594	28.05	0.638	28.49	0.706
100	DFT-s-OFDM 16QAM	1	1	27.85	0.610	27.47	0.558	28.31	0.678
100	DFT-s-OFDM 64QAM	1	1	26.51	0.448	26.59	0.456	26.78	0.476
100	DFT-s-OFDM 256QAM	1	1	24.25	0.266	24.21	0.264	24.63	0.290
100	CP-OFDM QPSK	1	1	27.44	0.555	27.49	0.561	27.78	0.600
100	CP-OFDM 16QAM	1	1	26.90	0.490	27.06	0.508	27.40	0.550
100	CP-OFDM 64QAM	1	1	25.03	0.318	25.17	0.329	25.54	0.358
100	CP-OFDM 256QAM	1	1	22.19	0.166	22.05	0.160	22.69	0.186
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	28.93	0.782	28.68	0.738	29.45	0.881
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	28.99	0.793	28.58	0.721	29.49	0.889
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	29.39	0.869	28.98	0.791	28.91	0.778
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	29.24	0.839	28.90	0.776	28.80	0.759
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	29.32	0.855	29.00	0.794	29.31	0.853

B5_n2 (PC3)									
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				372000	372000	376000	376000	380000	380000
Frequency (MHz)				1860.00	1860.00	1880.00	1880.00	1900.00	1900.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.85	0.193	23.00	0.200	23.17	0.207
20		1	53	22.98	0.199	23.09	0.204	23.20	0.209
20		1	104	23.09	0.204	23.09	0.204	23.21	0.209
20		50	1	22.86	0.193	23.20	0.209	23.17	0.207
20		50	25	22.92	0.196	23.21	0.209	23.15	0.207
20		50	50	23.11	0.205	23.21	0.209	23.21	0.209
20		100	0	22.94	0.197	23.21	0.209	23.20	0.209
20	DFT-s-OFDM QPSK	1	1	22.80	0.191	23.16	0.207	23.06	0.202
20		1	53	22.86	0.193	23.15	0.207	23.10	0.204
20		1	104	23.01	0.200	23.15	0.207	23.11	0.205
20		50	1	22.89	0.195	23.13	0.206	23.12	0.205
20		50	25	22.98	0.199	23.14	0.206	23.15	0.207
20		50	50	22.99	0.199	23.11	0.205	23.06	0.202
20		100	0	22.98	0.199	23.08	0.203	23.07	0.203
20	DFT-s-OFDM 16QAM	1	1	22.91	0.195	23.16	0.207	23.15	0.207
20	DFT-s-OFDM 64QAM	1	1	21.38	0.137	21.65	0.146	21.63	0.146
20	DFT-s-OFDM 256QAM	1	1	19.48	0.089	19.71	0.094	19.70	0.093
20	CP-OFDM QPSK	1	1	22.33	0.171	22.63	0.183	22.62	0.183
20	CP-OFDM 16QAM	1	1	21.90	0.155	22.13	0.163	22.13	0.163
20	CP-OFDM 64QAM	1	1	20.44	0.111	20.65	0.116	20.67	0.117
20	CP-OFDM 256QAM	1	1	17.58	0.057	17.68	0.059	17.86	0.061
Channel				371500	371500	376000	376000	380500	380500
Frequency (MHz)				1857.50	1857.50	1880.00	1880.00	1902.50	1902.50
15	DFT-s-OFDM QPSK	1	1	22.97	0.198	23.14	0.206	23.15	0.207
Channel				371000	371000	376000	376000	381000	381000
Frequency (MHz)				1855.00	1855.00	1880.00	1880.00	1905.00	1905.00
10	DFT-s-OFDM QPSK	1	1	23.01	0.200	23.13	0.206	23.09	0.204
Channel				370500	370500	376000	376000	381500	381500
Frequency (MHz)				1852.50	1852.50	1880.00	1880.00	1907.50	1907.50
5	DFT-s-OFDM QPSK	1	1	23.02	0.200	23.15	0.207	23.13	0.206

B12_n2 (PC3)									
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				372000	372000	376000	376000	380000	380000
Frequency (MHz)				1860.00	1860.00	1880.00	1880.00	1900.00	1900.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.17	0.165	22.20	0.166	22.09	0.162
20		1	53	22.22	0.167	22.17	0.165	21.99	0.158
20		1	104	22.23	0.167	22.12	0.163	22.12	0.163
20		50	1	22.24	0.167	22.26	0.168	22.05	0.160
20		50	25	22.32	0.171	22.27	0.169	22.13	0.163
20		50	50	22.34	0.171	22.21	0.166	22.12	0.163
20		100	0	22.34	0.171	22.25	0.168	22.09	0.162
20	DFT-s-OFDM QPSK	1	1	22.26	0.168	22.37	0.173	22.21	0.166
20		1	53	22.23	0.167	22.15	0.164	22.02	0.159
20		1	104	22.15	0.164	22.05	0.160	22.12	0.163
20		50	1	22.22	0.167	22.32	0.171	22.09	0.162
20		50	25	22.25	0.168	22.29	0.169	22.10	0.162
20		50	50	22.25	0.168	22.25	0.168	22.11	0.163
20		100	0	22.25	0.168	22.29	0.169	22.12	0.163
20	DFT-s-OFDM 16QAM	1	1	22.18	0.165	22.31	0.170	22.19	0.166
20	DFT-s-OFDM 64QAM	1	1	20.68	0.117	20.79	0.120	20.58	0.114
20	DFT-s-OFDM 256QAM	1	1	18.72	0.074	18.83	0.076	18.61	0.073
20	CP-OFDM QPSK	1	1	21.65	0.146	21.77	0.150	21.66	0.147
20	CP-OFDM 16QAM	1	1	21.16	0.131	21.29	0.135	21.09	0.129
20	CP-OFDM 64QAM	1	1	19.72	0.094	19.81	0.096	19.66	0.092
20	CP-OFDM 256QAM	1	1	16.80	0.048	16.88	0.049	16.78	0.048
Channel				371500	371500	376000	376000	380500	380500
Frequency (MHz)				1857.50	1857.50	1880.00	1880.00	1902.50	1902.50
15	DFT-s-OFDM QPSK	1	1	22.22	0.167	22.23	0.167	22.13	0.163
Channel				371000	371000	376000	376000	381000	381000
Frequency (MHz)				1855.00	1855.00	1880.00	1880.00	1905.00	1905.00
10	DFT-s-OFDM QPSK	1	1	22.30	0.170	22.35	0.172	22.17	0.165
Channel				370500	370500	376000	376000	381500	381500
Frequency (MHz)				1852.50	1852.50	1880.00	1880.00	1907.50	1907.50
5	DFT-s-OFDM QPSK	1	1	22.33	0.171	22.29	0.169	22.30	0.170

B14_n2 (PC3)									
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				372000	372000	376000	376000	380000	380000
Frequency (MHz)				1860.00	1860.00	1880.00	1880.00	1900.00	1900.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.19	0.166	22.21	0.166	22.09	0.162
20		1	53	22.28	0.169	22.19	0.166	22.04	0.160
20		1	104	22.28	0.169	22.11	0.163	22.12	0.163
20		50	1	22.20	0.166	22.27	0.169	22.05	0.160
20		50	25	22.26	0.168	22.27	0.169	22.13	0.163
20		50	50	22.30	0.170	22.18	0.165	22.12	0.163
20		100	0	22.29	0.169	22.31	0.170	22.14	0.164
20	DFT-s-OFDM QPSK	1	1	22.33	0.171	22.45	0.176	22.25	0.168
20		1	53	22.18	0.165	22.18	0.165	22.02	0.159
20		1	104	22.19	0.166	22.04	0.160	22.14	0.164
20		50	1	22.22	0.167	22.27	0.169	22.11	0.163
20		50	25	22.29	0.169	22.18	0.165	22.12	0.163
20		50	50	22.30	0.170	22.16	0.164	22.10	0.162
20		100	0	22.29	0.169	22.21	0.166	22.13	0.163
20	DFT-s-OFDM 16QAM	1	1	22.20	0.166	22.39	0.173	22.33	0.171
20	DFT-s-OFDM 64QAM	1	1	20.71	0.118	20.97	0.125	20.77	0.119
20	DFT-s-OFDM 256QAM	1	1	18.79	0.076	18.81	0.076	18.57	0.072
20	CP-OFDM QPSK	1	1	21.68	0.147	21.85	0.153	21.58	0.144
20	CP-OFDM 16QAM	1	1	21.22	0.132	21.12	0.129	21.08	0.128
20	CP-OFDM 64QAM	1	1	19.74	0.094	19.83	0.096	19.78	0.095
20	CP-OFDM 256QAM	1	1	16.83	0.048	16.87	0.049	16.63	0.046
Channel				371500	371500	376000	376000	380500	380500
Frequency (MHz)				1857.50	1857.50	1880.00	1880.00	1902.50	1902.50
15	DFT-s-OFDM QPSK	1	1	22.28	0.169	22.30	0.170	22.18	0.165
Channel				371000	371000	376000	376000	381000	381000
Frequency (MHz)				1855.00	1855.00	1880.00	1880.00	1905.00	1905.00
10	DFT-s-OFDM QPSK	1	1	22.35	0.172	22.43	0.175	22.24	0.167
Channel				370500	370500	376000	376000	381500	381500
Frequency (MHz)				1852.50	1852.50	1880.00	1880.00	1907.50	1907.50
5	DFT-s-OFDM QPSK	1	1	22.33	0.171	22.41	0.174	22.28	0.169

B66_n2 (PC3)									
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				372000	372000	376000	376000	380000	380000
Frequency (MHz)				1860.00	1860.00	1880.00	1880.00	1900.00	1900.00
20	DFT-s-OFDM PI/2 BPSK	1	1	22.75	0.188	22.67	0.185	22.40	0.174
20		1	53	22.60	0.182	22.43	0.175	22.30	0.170
20		1	104	22.70	0.186	22.35	0.172	22.43	0.175
20		50	1	22.72	0.187	22.67	0.185	22.38	0.173
20		50	25	22.74	0.188	22.54	0.179	22.42	0.175
20		50	50	22.79	0.190	22.50	0.178	22.43	0.175
20		100	0	22.78	0.190	22.59	0.182	22.45	0.176
20	DFT-s-OFDM QPSK	1	1	22.75	0.188	22.84	0.192	22.63	0.183
20		1	53	22.63	0.183	22.45	0.176	22.33	0.171
20		1	104	22.77	0.189	22.38	0.173	22.49	0.177
20		50	1	22.78	0.190	22.67	0.185	22.43	0.175
20		50	25	22.67	0.185	22.58	0.181	22.47	0.177
20		50	50	22.68	0.185	22.56	0.180	22.47	0.177
20		100	0	22.72	0.187	22.63	0.183	22.44	0.175
20	DFT-s-OFDM 16QAM	1	1	22.76	0.189	22.74	0.188	22.81	0.191
20	DFT-s-OFDM 64QAM	1	1	21.23	0.133	21.43	0.139	21.20	0.132
20	DFT-s-OFDM 256QAM	1	1	19.33	0.086	19.33	0.086	19.10	0.081
20	CP-OFDM QPSK	1	1	22.19	0.166	22.27	0.169	22.09	0.162
20	CP-OFDM 16QAM	1	1	21.72	0.149	21.69	0.148	21.43	0.139
20	CP-OFDM 64QAM	1	1	20.35	0.108	20.29	0.107	20.10	0.102
20	CP-OFDM 256QAM	1	1	17.38	0.055	17.33	0.054	17.15	0.052
Channel				371500	371500	376000	376000	380500	380500
Frequency (MHz)				1857.50	1857.50	1880.00	1880.00	1902.50	1902.50
15	DFT-s-OFDM QPSK	1	1	22.81	0.191	22.67	0.185	22.39	0.173
Channel				371000	371000	376000	376000	381000	381000
Frequency (MHz)				1855.00	1855.00	1880.00	1880.00	1905.00	1905.00
10	DFT-s-OFDM QPSK	1	1	22.76	0.189	22.72	0.187	22.25	0.168
Channel				370500	370500	376000	376000	381500	381500
Frequency (MHz)				1852.50	1852.50	1880.00	1880.00	1907.50	1907.50
5	DFT-s-OFDM QPSK	1	1	22.80	0.191	22.57	0.181	22.49	0.177

B2_n5 (PC3)									
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				166800	166800	167300	167300	167800	167800
Frequency (MHz)				834.00	834.00	836.50	836.50	839.00	839.00
20	DFT-s-OFDM PI/2 BPSK	1	1	17.51	0.056	17.49	0.056	17.49	0.056
20		1	53	17.35	0.054	17.36	0.054	17.35	0.054
20		1	104	17.21	0.053	17.24	0.053	17.19	0.052
20		50	1	17.54	0.057	17.51	0.056	17.48	0.056
20		50	25	17.47	0.056	17.44	0.055	17.47	0.056
20		50	50	17.43	0.055	17.38	0.055	17.37	0.055
20		100	0	17.49	0.056	17.48	0.056	17.47	0.056
20	DFT-s-OFDM QPSK	1	1	17.59	0.057	17.51	0.056	17.49	0.056
20		1	53	17.39	0.055	17.38	0.055	17.37	0.055
20		1	104	17.26	0.053	17.24	0.053	17.23	0.053
20		50	1	17.50	0.056	17.51	0.056	17.46	0.056
20		50	25	17.48	0.056	17.49	0.056	17.44	0.055
20		50	50	17.43	0.055	17.42	0.055	17.40	0.055
20		100	0	17.50	0.056	17.47	0.056	17.49	0.056
20	DFT-s-OFDM 16QAM	1	1	17.56	0.057	17.56	0.057	17.50	0.056
20	DFT-s-OFDM 64QAM	1	1	16.10	0.041	16.10	0.041	16.09	0.041
20	DFT-s-OFDM 256QAM	1	1	14.19	0.026	14.18	0.026	14.12	0.026
20	CP-OFDM QPSK	1	1	17.07	0.051	17.05	0.051	17.12	0.052
20	CP-OFDM 16QAM	1	1	16.62	0.046	16.62	0.046	16.45	0.044
20	CP-OFDM 64QAM	1	1	15.12	0.033	15.12	0.033	15.12	0.033
20	CP-OFDM 256QAM	1	1	12.20	0.017	12.16	0.016	12.09	0.016
Channel				166300	166300	167300	167300	168300	168300
Frequency (MHz)				831.50	831.50	836.50	836.50	841.50	841.50
15	DFT-s-OFDM QPSK	1	1	17.48	0.056	17.54	0.057	17.47	0.056
Channel				165800	165800	167300	167300	168800	168800
Frequency (MHz)				829.00	829.00	836.50	836.50	844.00	844.00
10	DFT-s-OFDM QPSK	1	1	17.49	0.056	17.41	0.055	17.31	0.054
Channel				165300	165300	167300	167300	169300	169300
Frequency (MHz)				826.50	826.50	836.50	836.50	846.50	846.50
5	DFT-s-OFDM QPSK	1	1	17.52	0.056	17.43	0.055	17.29	0.054

B66_n5 (PC3)									
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				166800	166800	167300	167300	167800	167800
Frequency (MHz)				834.00	834.00	836.50	836.50	839.00	839.00
20	DFT-s-OFDM PI/2 BPSK	1	1	17.53	0.057	17.53	0.057	17.49	0.056
20		1	53	17.42	0.055	17.42	0.055	17.34	0.054
20		1	104	17.28	0.053	17.23	0.053	17.23	0.053
20		50	1	17.51	0.056	17.48	0.056	17.47	0.056
20		50	25	17.45	0.056	17.50	0.056	17.41	0.055
20		50	50	17.42	0.055	17.42	0.055	17.29	0.054
20		100	0	17.48	0.056	17.45	0.056	17.45	0.056
20	DFT-s-OFDM QPSK	1	1	17.60	0.058	17.51	0.056	17.42	0.055
20		1	53	17.39	0.055	17.38	0.055	17.38	0.055
20		1	104	17.26	0.053	17.26	0.053	17.25	0.053
20		50	1	17.57	0.057	17.42	0.055	17.36	0.054
20		50	25	17.42	0.055	17.42	0.055	17.36	0.054
20		50	50	17.39	0.055	17.42	0.055	17.36	0.054
20		100	0	17.35	0.054	17.38	0.055	17.46	0.056
20	DFT-s-OFDM 16QAM	1	1	17.52	0.056	17.42	0.055	17.54	0.057
20	DFT-s-OFDM 64QAM	1	1	16.18	0.041	16.15	0.041	16.13	0.041
20	DFT-s-OFDM 256QAM	1	1	14.15	0.026	14.01	0.025	14.07	0.026
20	CP-OFDM QPSK	1	1	17.15	0.052	17.04	0.051	17.01	0.050
20	CP-OFDM 16QAM	1	1	16.36	0.043	16.47	0.044	16.40	0.044
20	CP-OFDM 64QAM	1	1	15.15	0.033	15.12	0.033	15.01	0.032
20	CP-OFDM 256QAM	1	1	12.12	0.016	11.99	0.016	12.08	0.016
Channel				166300	166300	167300	167300	168300	168300
Frequency (MHz)				831.50	831.50	836.50	836.50	841.50	841.50
15	DFT-s-OFDM QPSK	1	1	17.54	0.057	17.45	0.056	17.39	0.055
Channel				165800	165800	167300	167300	168800	168800
Frequency (MHz)				829.00	829.00	836.50	836.50	844.00	844.00
10	DFT-s-OFDM QPSK	1	1	17.44	0.055	17.47	0.056	17.33	0.054
Channel				165300	165300	167300	167300	169300	169300
Frequency (MHz)				826.50	826.50	836.50	836.50	846.50	846.50
5	DFT-s-OFDM QPSK	1	1	17.53	0.057	17.37	0.055	17.33	0.054

B2_n66 (PC3)									
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				344000	344000	349000	349000	354000	354000
Frequency (MHz)				1720.00	1720.00	1745.00	1745.00	1770.00	1770.00
20	DFT-s-OFDM PI/2 BPSK	1	1	21.93	0.156	21.89	0.155	21.57	0.144
20		1	53	21.97	0.157	21.56	0.143	21.35	0.136
20		1	104	21.97	0.157	21.60	0.145	21.54	0.143
20		50	1	22.03	0.160	21.87	0.154	21.55	0.143
20		50	25	21.99	0.158	21.67	0.147	21.45	0.140
20		50	50	22.07	0.161	21.60	0.145	21.55	0.143
20		100	0	22.05	0.160	21.68	0.147	21.48	0.141
20	DFT-s-OFDM QPSK	1	1	22.10	0.162	22.01	0.159	21.93	0.156
20		1	53	21.97	0.157	21.56	0.143	21.39	0.138
20		1	104	22.00	0.158	21.63	0.146	21.55	0.143
20		50	1	22.01	0.159	21.82	0.152	21.53	0.142
20		50	25	22.05	0.160	21.64	0.146	21.44	0.139
20		50	50	22.08	0.161	21.63	0.146	21.50	0.141
20		100	0	22.00	0.158	21.69	0.148	21.49	0.141
20	DFT-s-OFDM 16QAM	1	1	22.03	0.160	22.01	0.159	21.93	0.156
20	DFT-s-OFDM 64QAM	1	1	20.55	0.114	20.49	0.112	20.29	0.107
20	DFT-s-OFDM 256QAM	1	1	18.55	0.072	18.59	0.072	18.22	0.066
20	CP-OFDM QPSK	1	1	21.51	0.142	21.54	0.143	21.21	0.132
20	CP-OFDM 16QAM	1	1	21.04	0.127	20.99	0.126	20.56	0.114
20	CP-OFDM 64QAM	1	1	19.58	0.091	19.51	0.089	19.22	0.084
20	CP-OFDM 256QAM	1	1	16.63	0.046	16.60	0.046	16.25	0.042
Channel				343500	343500	349000	349000	354500	354500
Frequency (MHz)				1717.50	1717.50	1745.00	1745.00	1772.50	1772.50
15	DFT-s-OFDM QPSK	1	1	19.36	0.086	21.82	0.152	21.42	0.139
Channel				343000	343000	349000	349000	355000	355000
Frequency (MHz)				1715.00	1715.00	1745.00	1745.00	1775.00	1775.00
10	DFT-s-OFDM QPSK	1	1	21.93	0.156	21.71	0.148	21.36	0.137
Channel				342500	342500	349000	349000	355500	355500
Frequency (MHz)				1712.50	1712.50	1745.00	1745.00	1777.50	1777.50
5	DFT-s-OFDM QPSK	1	1	21.92	0.156	21.64	0.146	21.60	0.145

B5_n66 (PC3)									
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				344000	344000	349000	349000	354000	354000
Frequency (MHz)				1720.00	1720.00	1745.00	1745.00	1770.00	1770.00
20	DFT-s-OFDM PI/2 BPSK	1	1	21.57	0.144	21.32	0.136	21.11	0.129
20		1	53	21.57	0.144	21.28	0.134	21.16	0.131
20		1	104	21.46	0.140	21.17	0.131	21.16	0.131
20		50	1	21.62	0.145	21.31	0.135	21.21	0.132
20		50	25	21.59	0.144	21.33	0.136	21.11	0.129
20		50	50	21.58	0.144	21.33	0.136	21.09	0.129
20		100	0	21.54	0.143	21.32	0.136	21.05	0.127
20	DFT-s-OFDM QPSK	1	1	21.56	0.143	21.71	0.148	21.49	0.141
20		1	53	21.56	0.143	21.27	0.134	21.01	0.126
20		1	104	21.45	0.140	21.14	0.130	21.01	0.126
20		50	1	21.57	0.144	21.60	0.145	21.45	0.140
20		50	25	21.55	0.143	21.38	0.137	21.11	0.129
20		50	50	21.56	0.143	21.31	0.135	21.15	0.130
20		100	0	21.50	0.141	21.35	0.136	21.13	0.130
20	DFT-s-OFDM 16QAM	1	1	21.57	0.144	21.59	0.144	21.39	0.138
20	DFT-s-OFDM 64QAM	1	1	20.09	0.102	20.06	0.101	19.86	0.097
20	DFT-s-OFDM 256QAM	1	1	18.06	0.064	17.82	0.061	17.61	0.058
20	CP-OFDM QPSK	1	1	21.18	0.131	20.98	0.125	20.82	0.121
20	CP-OFDM 16QAM	1	1	20.62	0.115	20.04	0.101	20.01	0.100
20	CP-OFDM 64QAM	1	1	19.09	0.081	18.94	0.078	18.62	0.073
20	CP-OFDM 256QAM	1	1	16.09	0.041	15.97	0.040	15.70	0.037
Channel				343500	343500	349000	349000	354500	354500
Frequency (MHz)				1717.50	1717.50	1745.00	1745.00	1772.50	1772.50
15	DFT-s-OFDM QPSK	1	1	21.58	0.144	21.38	0.137	21.16	0.131
Channel				343000	343000	349000	349000	355000	355000
Frequency (MHz)				1715.00	1715.00	1745.00	1745.00	1775.00	1775.00
10	DFT-s-OFDM QPSK	1	1	21.51	0.142	21.30	0.135	21.18	0.131
Channel				342500	342500	349000	349000	355500	355500
Frequency (MHz)				1712.50	1712.50	1745.00	1745.00	1777.50	1777.50
5	DFT-s-OFDM QPSK	1	1	21.61	0.145	21.38	0.137	21.22	0.132

B12_n66 (PC3)									
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				344000	344000	349000	349000	354000	354000
Frequency (MHz)				1720.00	1720.00	1745.00	1745.00	1770.00	1770.00
20	DFT-s-OFDM PI/2 BPSK	1	1	21.59	0.144	21.41	0.138	21.20	0.132
20		1	53	21.60	0.145	21.30	0.135	21.15	0.130
20		1	104	21.48	0.141	21.17	0.131	21.05	0.127
20		50	1	21.56	0.143	21.44	0.139	21.28	0.134
20		50	25	21.59	0.144	21.41	0.138	21.21	0.132
20		50	50	21.53	0.142	21.33	0.136	21.14	0.130
20		100	0	21.57	0.144	21.40	0.138	21.12	0.129
20	DFT-s-OFDM QPSK	1	1	21.61	0.145	21.77	0.150	21.55	0.143
20		1	53	21.48	0.141	21.26	0.134	20.98	0.125
20		1	104	21.44	0.139	21.20	0.132	21.00	0.126
20		50	1	21.54	0.143	21.62	0.145	21.47	0.140
20		50	25	21.58	0.144	21.41	0.138	21.15	0.130
20		50	50	21.53	0.142	21.39	0.138	21.13	0.130
20		100	0	21.57	0.144	21.41	0.138	21.16	0.131
20	DFT-s-OFDM 16QAM	1	1	21.74	0.149	21.64	0.146	21.40	0.138
20	DFT-s-OFDM 64QAM	1	1	20.24	0.106	20.15	0.104	19.88	0.097
20	DFT-s-OFDM 256QAM	1	1	18.02	0.063	17.92	0.062	17.66	0.058
20	CP-OFDM QPSK	1	1	21.15	0.130	21.03	0.127	20.79	0.120
20	CP-OFDM 16QAM	1	1	20.30	0.107	20.15	0.104	20.00	0.100
20	CP-OFDM 64QAM	1	1	19.14	0.082	19.05	0.080	18.74	0.075
20	CP-OFDM 256QAM	1	1	16.04	0.040	15.96	0.039	15.74	0.037
Channel				343500	343500	349000	349000	354500	354500
Frequency (MHz)				1717.50	1717.50	1745.00	1745.00	1772.50	1772.50
15	DFT-s-OFDM QPSK	1	1	21.58	0.144	21.44	0.139	21.19	0.132
Channel				343000	343000	349000	349000	355000	355000
Frequency (MHz)				1715.00	1715.00	1745.00	1745.00	1775.00	1775.00
10	DFT-s-OFDM QPSK	1	1	21.49	0.141	21.35	0.136	21.12	0.129
Channel				342500	342500	349000	349000	355500	355500
Frequency (MHz)				1712.50	1712.50	1745.00	1745.00	1777.50	1777.50
5	DFT-s-OFDM QPSK	1	1	21.58	0.144	21.30	0.135	21.13	0.130

B14_n66 (PC3)									
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				344000	344000	349000	349000	354000	354000
Frequency (MHz)				1720.00	1720.00	1745.00	1745.00	1770.00	1770.00
20	DFT-s-OFDM PI/2 BPSK	1	1	21.54	0.143	21.35	0.136	21.23	0.133
20		1	53	21.53	0.142	21.21	0.132	21.03	0.127
20		1	104	21.46	0.140	21.13	0.130	21.03	0.127
20		50	1	21.51	0.142	21.33	0.136	21.27	0.134
20		50	25	21.55	0.143	21.37	0.137	21.11	0.129
20		50	50	21.56	0.143	21.24	0.133	21.14	0.130
20		100	0	21.52	0.142	21.27	0.134	21.11	0.129
20	DFT-s-OFDM QPSK	1	1	21.75	0.150	21.57	0.144	21.52	0.142
20		1	53	21.54	0.143	21.20	0.132	20.99	0.126
20		1	104	21.44	0.139	21.16	0.131	21.06	0.128
20		50	1	21.58	0.144	21.42	0.139	21.34	0.136
20		50	25	21.55	0.143	21.25	0.133	21.16	0.131
20		50	50	21.56	0.143	21.26	0.134	21.15	0.130
20		100	0	21.53	0.142	21.29	0.135	21.19	0.132
20	DFT-s-OFDM 16QAM	1	1	21.69	0.148	21.59	0.144	21.41	0.138
20	DFT-s-OFDM 64QAM	1	1	20.18	0.104	20.06	0.101	19.84	0.096
20	DFT-s-OFDM 256QAM	1	1	17.96	0.063	17.85	0.061	17.76	0.060
20	CP-OFDM QPSK	1	1	21.09	0.129	20.96	0.125	20.82	0.121
20	CP-OFDM 16QAM	1	1	20.24	0.106	20.06	0.101	20.03	0.101
20	CP-OFDM 64QAM	1	1	19.01	0.080	18.92	0.078	18.81	0.076
20	CP-OFDM 256QAM	1	1	15.96	0.039	15.91	0.039	15.79	0.038
Channel				343500	343500	349000	349000	354500	354500
Frequency (MHz)				1717.50	1717.50	1745.00	1745.00	1772.50	1772.50
15	DFT-s-OFDM QPSK	1	1	21.43	0.139	21.38	0.137	21.23	0.133
Channel				343000	343000	349000	349000	355000	355000
Frequency (MHz)				1715.00	1715.00	1745.00	1745.00	1775.00	1775.00
10	DFT-s-OFDM QPSK	1	1	21.53	0.142	21.24	0.133	21.09	0.129
Channel				342500	342500	349000	349000	355500	355500
Frequency (MHz)				1712.50	1712.50	1745.00	1745.00	1777.50	1777.50
5	DFT-s-OFDM QPSK	1	1	21.45	0.140	21.30	0.135	21.14	0.130

B2_n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	28.81	0.760	/	/
100		1	136	/	/	28.50	0.708	/	/
100		1	271	/	/	27.78	0.600	/	/
100		135	1	/	/	28.21	0.662	/	/
100		135	67	/	/	28.84	0.766	/	/
100		135	136	/	/	27.57	0.571	/	/
100		270	0	/	/	28.10	0.646	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	28.89	0.774	/	/
100		1	136	/	/	28.41	0.693	/	/
100		1	271	/	/	27.83	0.607	/	/
100		135	1	/	/	28.72	0.745	/	/
100		135	67	/	/	28.52	0.711	/	/
100		135	136	/	/	28.08	0.643	/	/
100		270	0	/	/	27.49	0.561	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	27.88	0.614	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	26.82	0.481	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	27.47	0.558	/	/
100	CP-OFDM QPSK	1	1	/	/	27.37	0.546	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.87	0.486	/	/
100	CP-OFDM 64QAM	1	1	/	/	25.41	0.348	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.46	0.176	/	/
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	28.74	0.748	28.72	0.745	28.66	0.735
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	28.82	0.762	28.70	0.741	28.55	0.716
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	28.86	0.769	28.78	0.755	28.41	0.693

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	28.83	0.764	28.81	0.760	28.33	0.681
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	28.84	0.766	28.66	0.735	28.36	0.685

B5_n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	28.82	0.762	/	/
100		1	136	/	/	28.45	0.700	/	/
100		1	271	/	/	27.86	0.611	/	/
100		135	1	/	/	28.27	0.671	/	/
100		135	67	/	/	28.71	0.743	/	/
100		135	136	/	/	27.88	0.614	/	/
100		270	0	/	/	28.02	0.634	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	28.90	0.776	/	/
100		1	136	/	/	28.46	0.701	/	/
100		1	271	/	/	27.88	0.614	/	/
100		135	1	/	/	28.69	0.740	/	/
100		135	67	/	/	28.52	0.711	/	/
100		135	136	/	/	28.05	0.638	/	/
100		270	0	/	/	27.56	0.570	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	27.96	0.625	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	26.84	0.483	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.44	0.278	/	/
100	CP-OFDM QPSK	1	1	/	/	27.42	0.552	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.70	0.468	/	/
100	CP-OFDM 64QAM	1	1	/	/	25.36	0.344	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.35	0.172	/	/
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	28.79	0.757	28.67	0.736	28.61	0.726

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	28.75	0.750	28.73	0.746	28.60	0.724
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	28.86	0.769	28.84	0.766	28.45	0.700
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	28.88	0.773	28.74	0.748	28.39	0.690
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	28.86	0.769	28.73	0.746	28.34	0.682

B7_n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	27.99	0.630	/	/
100		1	136	/	/	27.44	0.555	/	/
100		1	271	/	/	27.85	0.610	/	/
100		135	1	/	/	28.16	0.655	/	/
100		135	67	/	/	27.56	0.570	/	/
100		135	136	/	/	27.59	0.574	/	/
100		270	0	/	/	27.97	0.627	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	28.21	0.662	/	/
100		1	136	/	/	27.47	0.558	/	/
100		1	271	/	/	27.82	0.605	/	/
100		135	1	/	/	27.86	0.611	/	/
100		135	67	/	/	27.48	0.560	/	/
100		135	136	/	/	27.01	0.502	/	/
100		270	0	/	/	26.48	0.445	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	26.87	0.486	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	25.94	0.393	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	23.38	0.218	/	/
100	CP-OFDM QPSK	1	1	/	/	26.42	0.439	/	/
100	CP-OFDM	1	1	/	/	25.87	0.386	/	/

	16QAM								
100	CP-OFDM 64QAM	1	1	/	/	24.36	0.273	/	/
100	CP-OFDM 256QAM	1	1	/	/	21.45	0.140	/	/
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	27.77	0.598	27.76	0.597	27.61	0.577
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	27.82	0.605	27.73	0.593	27.58	0.573
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	28.06	0.640	27.91	0.618	27.53	0.566
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	28.04	0.637	27.84	0.608	27.12	0.515
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	27.99	0.630	27.70	0.589	26.97	0.498

B12_n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	28.89	0.774	/	/
100		1	136	/	/	28.46	0.701	/	/
100		1	271	/	/	27.85	0.610	/	/
100		135	1	/	/	28.21	0.662	/	/
100		135	67	/	/	28.47	0.703	/	/
100		135	136	/	/	27.48	0.560	/	/
100		270	0	/	/	28.00	0.631	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	28.95	0.785	/	/
100		1	136	/	/	28.43	0.697	/	/
100		1	271	/	/	27.74	0.594	/	/
100		135	1	/	/	28.74	0.748	/	/
100		135	67	/	/	28.49	0.706	/	/
100		135	136	/	/	27.99	0.630	/	/
100		270	0	/	/	27.53	0.566	/	/

100	DFT-s-OFDM 16QAM	1	1	/	/	27.97	0.627	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	26.94	0.494	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.32	0.270	/	/
100	CP-OFDM QPSK	1	1	/	/	27.32	0.540	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.80	0.479	/	/
100	CP-OFDM 64QAM	1	1	/	/	25.32	0.340	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.36	0.172	/	/
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	28.77	0.753	28.73	0.746	28.59	0.723
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	28.72	0.745	28.70	0.741	28.58	0.721
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	29.02	0.798	28.82	0.762	28.44	0.698
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	28.94	0.783	28.74	0.748	28.17	0.656
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	28.92	0.780	28.66	0.735	27.95	0.624

B14_n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	28.90	0.776	/	/
100		1	136	/	/	28.44	0.698	/	/
100		1	271	/	/	27.78	0.600	/	/
100		135	1	/	/	28.25	0.668	/	/
100		135	67	/	/	28.47	0.703	/	/
100		135	136	/	/	27.48	0.560	/	/
100		270	0	/	/	28.04	0.637	/	/

100	DFT-s-OFDM QPSK	1	1	/	/	28.96	0.787	/	/
100		1	136	/	/	28.45	0.700	/	/
100		1	271	/	/	27.76	0.597	/	/
100		135	1	/	/	28.85	0.767	/	/
100		135	67	/	/	28.50	0.708	/	/
100		135	136	/	/	27.02	0.504	/	/
100		270	0	/	/	27.53	0.566	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	27.96	0.625	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	26.91	0.491	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.47	0.280	/	/
100	CP-OFDM QPSK	1	1	/	/	27.32	0.540	/	/
100	CP-OFDM 16QAM	1	1	/	/	26.81	0.480	/	/
100	CP-OFDM 64QAM	1	1	/	/	25.37	0.344	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.35	0.172	/	/
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	28.80	0.759	28.68	0.738	28.60	0.724
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	28.78	0.755	28.63	0.729	28.61	0.726
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	28.95	0.785	28.86	0.769	28.47	0.703
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	28.90	0.776	28.79	0.757	28.44	0.698
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	28.94	0.783	28.76	0.752	28.48	0.705

B66_n77(3450-3550MHz) (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				/	/	633334	633334	/	/
Frequency (MHz)				/	/	3500.01	3500.01	/	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	/	28.83	0.764	/	/
100		1	136	/	/	28.46	0.701	/	/
100		1	271	/	/	27.80	0.603	/	/
100		135	1	/	/	28.21	0.662	/	/
100		135	67	/	/	28.55	0.716	/	/
100		135	136	/	/	27.53	0.566	/	/
100		270	0	/	/	28.05	0.638	/	/
100	DFT-s-OFDM QPSK	1	1	/	/	28.92	0.780	/	/
100		1	136	/	/	28.49	0.706	/	/
100		1	271	/	/	27.81	0.604	/	/
100		135	1	/	/	27.68	0.586	/	/
100		135	67	/	/	28.55	0.716	/	/
100		135	136	/	/	27.04	0.506	/	/
100		270	0	/	/	27.57	0.571	/	/
100	DFT-s-OFDM 16QAM	1	1	/	/	27.84	0.608	/	/
100	DFT-s-OFDM 64QAM	1	1	/	/	26.38	0.435	/	/
100	DFT-s-OFDM 256QAM	1	1	/	/	24.25	0.266	/	/
100	CP-OFDM QPSK	1	1	/	/	27.34	0.542	/	/
100	CP-OFDM 16QAM	1	1	/	/	27.00	0.501	/	/
100	CP-OFDM 64QAM	1	1	/	/	25.42	0.348	/	/
100	CP-OFDM 256QAM	1	1	/	/	22.25	0.168	/	/
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	28.83	0.764	28.69	0.740	28.67	0.736
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	28.81	0.760	28.62	0.728	28.59	0.723
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	28.86	0.769	28.82	0.762	28.33	0.681

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	28.89	0.774	28.77	0.753	28.41	0.693
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	28.88	0.773	28.75	0.750	28.42	0.695

B2_n77(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	28.97	0.789	28.50	0.708	29.24	0.839
100		1	136	28.71	0.743	28.91	0.778	29.30	0.851
100		1	271	28.41	0.693	29.25	0.841	29.36	0.863
100		135	1	28.73	0.746	28.25	0.668	28.93	0.782
100		135	67	28.78	0.755	28.92	0.780	29.40	0.871
100		135	136	28.02	0.634	28.44	0.698	29.44	0.879
100		270	0	28.39	0.690	28.60	0.724	29.07	0.807
100	DFT-s-OFDM QPSK	1	1	28.96	0.787	29.53	0.897	29.16	0.824
100		1	136	28.67	0.736	28.91	0.778	28.56	0.718
100		1	271	28.41	0.693	29.14	0.820	29.33	0.857
100		135	1	28.19	0.659	29.06	0.805	28.11	0.647
100		135	67	28.67	0.736	28.95	0.785	28.69	0.740
100		135	136	27.41	0.551	27.98	0.628	28.03	0.635
100		270	0	27.80	0.603	28.11	0.647	28.00	0.631
100	DFT-s-OFDM 16QAM	1	1	27.97	0.627	27.69	0.587	28.40	0.692
100	DFT-s-OFDM 64QAM	1	1	26.66	0.463	26.30	0.427	27.03	0.505
100	DFT-s-OFDM 256QAM	1	1	24.36	0.273	24.06	0.255	24.77	0.300
100	CP-OFDM QPSK	1	1	27.45	0.556	27.15	0.519	27.76	0.597
100	CP-OFDM 16QAM	1	1	27.12	0.515	26.77	0.475	27.33	0.541
100	CP-OFDM 64QAM	1	1	25.65	0.367	25.29	0.338	25.85	0.385
100	CP-OFDM 256QAM	1	1	22.34	0.171	22.09	0.162	22.75	0.188
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	28.97	0.789	28.64	0.731	29.31	0.853

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	28.93	0.782	28.53	0.713	29.21	0.834
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	28.99	0.793	28.85	0.767	28.31	0.678
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	28.94	0.783	28.86	0.769	28.18	0.658
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	29.18	0.828	28.98	0.791	28.67	0.736

B5_n77(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	28.91	0.778	28.55	0.716	29.16	0.824
100		1	136	28.69	0.740	28.96	0.787	29.36	0.863
100		1	271	28.40	0.692	29.31	0.853	29.57	0.906
100		135	1	28.74	0.748	28.18	0.658	28.84	0.766
100		135	67	28.76	0.752	28.98	0.791	29.34	0.859
100		135	136	28.00	0.631	28.46	0.701	29.34	0.859
100		270	0	28.32	0.679	28.53	0.713	29.09	0.811
100	DFT-s-OFDM QPSK	1	1	29.71	0.935	29.81	0.957	29.78	0.951
100		1	136	28.65	0.733	28.96	0.787	28.46	0.701
100		1	271	28.32	0.679	28.96	0.787	29.23	0.838
100		135	1	29.57	0.906	29.66	0.925	29.50	0.891
100		135	67	28.67	0.736	28.96	0.787	28.59	0.723
100		135	136	27.45	0.556	27.95	0.624	27.93	0.621
100		270	0	27.77	0.598	28.04	0.637	27.90	0.617
100	DFT-s-OFDM 16QAM	1	1	27.95	0.624	27.52	0.565	28.26	0.670
100	DFT-s-OFDM 64QAM	1	1	26.55	0.452	26.13	0.410	26.87	0.486
100	DFT-s-OFDM 256QAM	1	1	24.54	0.284	24.07	0.255	24.85	0.305
100	CP-OFDM QPSK	1	1	27.54	0.568	27.09	0.512	27.85	0.610
100	CP-OFDM 16QAM	1	1	26.99	0.500	26.66	0.463	27.31	0.538

100	CP-OFDM 64QAM	1	1	25.51	0.356	25.08	0.322	25.84	0.384
100	CP-OFDM 256QAM	1	1	22.53	0.179	22.08	0.161	22.88	0.194
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	28.95	0.785	29.20	0.832	29.40	0.871
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	28.99	0.793	29.11	0.815	29.39	0.869
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	29.26	0.843	29.22	0.836	29.06	0.805
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	29.15	0.822	29.13	0.818	28.98	0.791
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	29.19	0.830	29.01	0.796	29.01	0.796

B7_n77(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	26.85	0.484	26.55	0.452	27.22	0.527
100		1	136	26.66	0.463	26.99	0.500	27.38	0.547
100		1	271	26.36	0.433	27.31	0.538	28.10	0.646
100		135	1	26.72	0.470	26.21	0.418	26.90	0.490
100		135	67	26.75	0.473	26.98	0.499	27.37	0.546
100		135	136	25.97	0.395	26.51	0.448	27.47	0.558
100		270	0	26.32	0.429	26.68	0.466	27.12	0.515
100	DFT-s-OFDM QPSK	1	1	27.91	0.618	28.22	0.664	27.83	0.607
100		1	136	26.70	0.468	26.95	0.495	27.37	0.546
100		1	271	26.40	0.437	27.29	0.536	28.13	0.650
100		135	1	27.37	0.546	27.72	0.592	27.60	0.575
100		135	67	26.71	0.469	26.97	0.498	27.37	0.546
100		135	136	25.43	0.349	25.98	0.396	26.96	0.497
100		270	0	25.86	0.385	26.08	0.406	26.61	0.458
100	DFT-s-OFDM 16QAM	1	1	26.12	0.409	25.61	0.364	26.41	0.438

100	DFT-s-OFDM 64QAM	1	1	24.60	0.288	24.15	0.260	24.94	0.312
100	DFT-s-OFDM 256QAM	1	1	22.36	0.172	21.99	0.158	22.68	0.185
100	CP-OFDM QPSK	1	1	25.52	0.356	25.18	0.330	25.86	0.385
100	CP-OFDM 16QAM	1	1	25.07	0.321	24.71	0.296	25.48	0.353
100	CP-OFDM 64QAM	1	1	23.65	0.232	23.21	0.209	23.94	0.248
100	CP-OFDM 256QAM	1	1	20.40	0.110	19.98	0.100	20.75	0.119
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	26.94	0.494	26.61	0.458	27.38	0.547
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	27.01	0.502	27.00	0.501	27.39	0.548
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	27.05	0.507	26.89	0.489	27.88	0.614
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	27.15	0.519	26.83	0.482	27.91	0.618
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	27.25	0.531	26.96	0.497	27.86	0.611

B12_n77(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	28.87	0.771	28.46	0.701	29.18	0.828
100		1	136	28.66	0.735	28.98	0.791	29.25	0.841
100		1	271	28.37	0.687	29.32	0.855	29.39	0.869
100		135	1	28.71	0.743	28.18	0.658	28.86	0.769
100		135	67	28.74	0.748	29.01	0.796	29.36	0.863
100		135	136	27.99	0.630	28.50	0.708	29.36	0.863
100		270	0	28.32	0.679	28.56	0.718	29.10	0.813
100	DFT-s-OFDM QPSK	1	1	29.36	0.863	29.59	0.910	29.40	0.871
100		1	136	28.70	0.741	28.97	0.789	28.67	0.736

100		1	271	28.40	0.692	29.21	0.834	29.43	0.877
100		135	1	29.04	0.802	29.30	0.851	29.19	0.830
100		135	67	28.73	0.746	28.98	0.791	28.79	0.757
100		135	136	27.50	0.562	27.92	0.619	28.14	0.652
100		270	0	27.83	0.607	28.08	0.643	28.08	0.643
100	DFT-s-OFDM 16QAM	1	1	28.14	0.652	27.62	0.578	28.42	0.695
100	DFT-s-OFDM 64QAM	1	1	26.74	0.472	26.28	0.425	27.07	0.509
100	DFT-s-OFDM 256QAM	1	1	24.49	0.281	24.04	0.254	24.74	0.298
100	CP-OFDM QPSK	1	1	27.51	0.564	27.07	0.509	27.81	0.604
100	CP-OFDM 16QAM	1	1	27.11	0.514	26.66	0.463	27.43	0.553
100	CP-OFDM 64QAM	1	1	25.61	0.364	25.19	0.330	25.95	0.394
100	CP-OFDM 256QAM	1	1	22.43	0.175	21.98	0.158	22.76	0.189
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	28.92	0.780	28.60	0.724	29.23	0.838
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	28.98	0.791	28.58	0.721	29.15	0.822
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	29.23	0.838	28.92	0.780	28.89	0.774
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	29.05	0.804	28.83	0.764	28.72	0.745
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	29.15	0.822	28.95	0.785	28.70	0.741

B14_n77(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	28.87	0.771	28.46	0.701	29.21	0.834
100		1	136	28.69	0.740	28.97	0.789	29.26	0.843
100		1	271	28.40	0.692	29.25	0.841	29.73	0.940
100		135	1	28.73	0.746	28.20	0.661	28.89	0.774
100		135	67	28.76	0.752	29.02	0.798	29.39	0.869
100		135	136	28.02	0.634	28.49	0.706	29.37	0.865
100		270	0	28.33	0.681	28.56	0.718	29.01	0.796
100	DFT-s-OFDM QPSK	1	1	29.60	0.912	29.69	0.931	29.73	0.940
100		1	136	28.71	0.743	28.88	0.773	28.63	0.729
100		1	271	28.39	0.690	29.16	0.824	29.40	0.871
100		135	1	29.41	0.873	29.63	0.918	29.64	0.920
100		135	67	28.74	0.748	28.90	0.776	28.72	0.745
100		135	136	27.52	0.565	27.93	0.621	28.04	0.637
100		270	0	27.83	0.607	28.07	0.641	28.00	0.631
100	DFT-s-OFDM 16QAM	1	1	28.11	0.647	27.68	0.586	28.25	0.668
100	DFT-s-OFDM 64QAM	1	1	26.72	0.470	26.37	0.434	26.87	0.486
100	DFT-s-OFDM 256QAM	1	1	24.38	0.274	24.02	0.252	24.71	0.296
100	CP-OFDM QPSK	1	1	27.53	0.566	27.11	0.514	27.75	0.596
100	CP-OFDM 16QAM	1	1	27.13	0.516	26.71	0.469	27.29	0.536
100	CP-OFDM 64QAM	1	1	25.62	0.365	25.20	0.331	25.82	0.382
100	CP-OFDM 256QAM	1	1	22.44	0.175	21.99	0.158	22.69	0.186
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	28.92	0.780	28.62	0.728	29.26	0.843
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	28.88	0.773	28.50	0.708	29.17	0.826
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	29.24	0.839	28.94	0.783	28.29	0.675

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	29.08	0.809	28.86	0.769	28.13	0.650
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	29.15	0.822	28.96	0.787	28.60	0.724

B66_n77(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	28.87	0.771	28.51	0.710	29.22	0.836
100		1	136	28.67	0.736	28.93	0.782	29.32	0.855
100		1	271	28.36	0.685	29.28	0.847	29.65	0.923
100		135	1	28.70	0.741	28.18	0.658	28.93	0.782
100		135	67	28.73	0.746	28.93	0.782	29.41	0.873
100		135	136	27.94	0.622	28.47	0.703	29.42	0.875
100		270	0	28.30	0.676	28.63	0.729	29.06	0.805
100	DFT-s-OFDM QPSK	1	1	29.48	0.887	29.54	0.899	29.67	0.927
100		1	136	28.65	0.733	28.94	0.783	28.57	0.719
100		1	271	28.35	0.684	29.09	0.811	29.33	0.857
100		135	1	29.31	0.853	29.36	0.863	29.51	0.893
100		135	67	28.70	0.741	28.92	0.780	28.70	0.741
100		135	136	27.47	0.558	27.99	0.630	28.05	0.638
100		270	0	27.81	0.604	28.13	0.650	28.01	0.632
100	DFT-s-OFDM 16QAM	1	1	27.96	0.625	27.72	0.592	28.29	0.675
100	DFT-s-OFDM 64QAM	1	1	26.54	0.451	26.40	0.437	27.00	0.501
100	DFT-s-OFDM 256QAM	1	1	24.52	0.283	24.13	0.259	24.69	0.294
100	CP-OFDM QPSK	1	1	27.49	0.561	27.13	0.516	27.78	0.600
100	CP-OFDM 16QAM	1	1	27.12	0.515	26.75	0.473	27.39	0.548
100	CP-OFDM 64QAM	1	1	25.57	0.361	25.27	0.337	25.91	0.390
100	CP-OFDM 256QAM	1	1	22.37	0.173	22.06	0.161	22.75	0.188
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	28.95	0.785	28.56	0.718	29.26	0.843

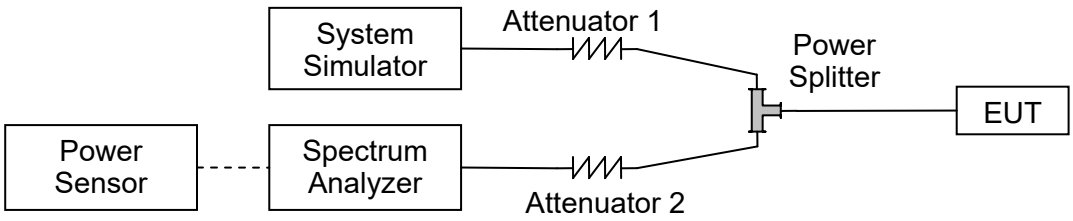
Channel				648668	648668	656000	656000	663332	663332
Frequency (MHz)				3730.02	3730.02	3840.00	3840.00	3949.98	3949.98
60	DFT-s-OFDM QPSK	1	1	28.94	0.783	28.55	0.716	28.72	0.745
Channel				648000	648000	656000	656000	664000	664000
Frequency (MHz)				3720.00	3720.00	3840.00	3840.00	3960.00	3960.00
40	DFT-s-OFDM QPSK	1	1	29.26	0.843	28.87	0.771	28.24	0.667
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	29.11	0.815	28.80	0.759	28.10	0.646
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	29.13	0.818	28.98	0.791	28.67	0.736

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.

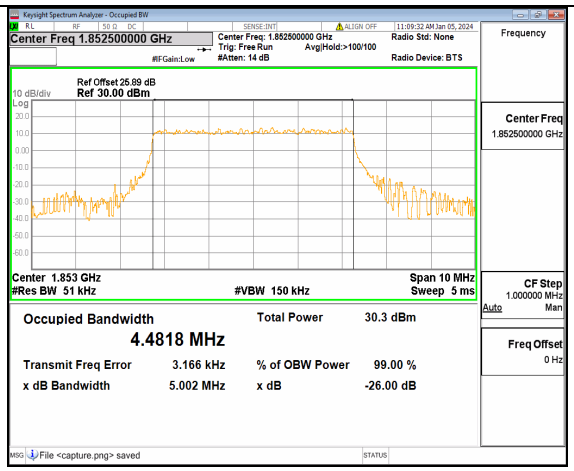
2.2.4.Test Result

Band	SCS (KHz)	BW (MHz)	ARFCN	Modulation	RB	OBW (MHz)	26dB BW (MHz)	Verdict
n2	15	5	370500	DFT-s-OFDM PI/2 BPSK	25/0	4.4818	5.002	PASS
n2	15	5	370500	DFT-s-OFDM QPSK	25/0	4.5001	5.180	PASS
n2	15	5	370500	DFT-s-OFDM 16QAM	25/0	4.4895	5.011	PASS
n2	15	5	370500	DFT-s-OFDM 64QAM	25/0	4.4793	5.045	PASS
n2	15	5	370500	DFT-s-OFDM 256QAM	25/0	4.4836	5.049	PASS
n2	15	5	370500	CP-OFDM QPSK	25/0	4.4742	5.106	PASS
n2	15	5	376000	DFT-s-OFDM PI/2 BPSK	25/0	4.4794	4.942	PASS
n2	15	5	376000	DFT-s-OFDM QPSK	25/0	4.4842	4.976	PASS
n2	15	5	376000	DFT-s-OFDM 16QAM	25/0	4.4861	5.101	PASS
n2	15	5	376000	DFT-s-OFDM 64QAM	25/0	4.4694	4.915	PASS
n2	15	5	376000	DFT-s-OFDM 256QAM	25/0	4.4874	5.050	PASS
n2	15	5	376000	CP-OFDM QPSK	25/0	4.4750	5.240	PASS
n2	15	5	381500	DFT-s-OFDM PI/2 BPSK	25/0	4.4901	5.079	PASS
n2	15	5	381500	DFT-s-OFDM QPSK	25/0	4.4899	5.065	PASS
n2	15	5	381500	DFT-s-OFDM 16QAM	25/0	4.4951	4.999	PASS
n2	15	5	381500	DFT-s-OFDM 64QAM	25/0	4.4787	4.968	PASS
n2	15	5	381500	DFT-s-OFDM 256QAM	25/0	4.4769	4.983	PASS
n2	15	5	381500	CP-OFDM QPSK	25/0	4.4759	5.050	PASS
n2	15	10	371000	DFT-s-OFDM PI/2 BPSK	50/0	8.934	9.674	PASS
n2	15	10	371000	DFT-s-OFDM QPSK	50/0	8.938	9.661	PASS
n2	15	10	371000	DFT-s-OFDM 16QAM	50/0	8.946	9.597	PASS
n2	15	10	371000	DFT-s-OFDM 64QAM	50/0	8.936	9.626	PASS
n2	15	10	371000	DFT-s-OFDM 256QAM	50/0	8.939	9.551	PASS

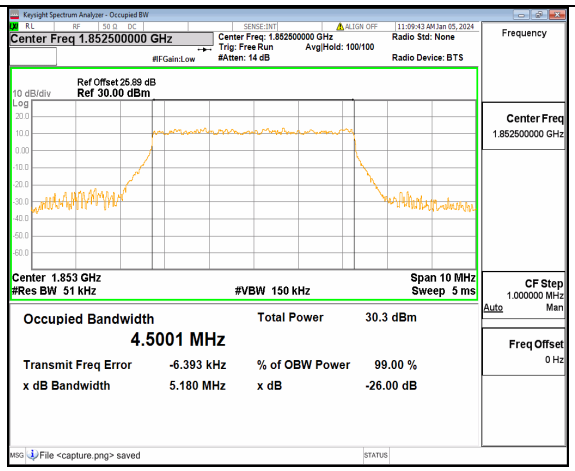
n2	15	10	371000	CP-OFDM QPSK	52/0	9.288	10.116	PASS
n2	15	10	376000	DFT-s-OFDM PI/2 BPSK	50/0	8.931	9.704	PASS
n2	15	10	376000	DFT-s-OFDM QPSK	50/0	8.936	9.656	PASS
n2	15	10	376000	DFT-s-OFDM 16QAM	50/0	8.951	9.665	PASS
n2	15	10	376000	DFT-s-OFDM 64QAM	50/0	8.933	9.644	PASS
n2	15	10	376000	DFT-s-OFDM 256QAM	50/0	8.931	9.613	PASS
n2	15	10	376000	CP-OFDM QPSK	52/0	9.293	10.085	PASS
n2	15	10	381000	DFT-s-OFDM PI/2 BPSK	50/0	8.922	9.699	PASS
n2	15	10	381000	DFT-s-OFDM QPSK	50/0	8.936	9.689	PASS
n2	15	10	381000	DFT-s-OFDM 16QAM	50/0	8.923	9.593	PASS
n2	15	10	381000	DFT-s-OFDM 64QAM	50/0	8.936	9.722	PASS
n2	15	10	381000	DFT-s-OFDM 256QAM	50/0	8.933	9.623	PASS
n2	15	10	381000	CP-OFDM QPSK	52/0	9.296	10.168	PASS
n2	15	15	371500	DFT-s-OFDM PI/2 BPSK	75/0	13.430	14.329	PASS
n2	15	15	371500	DFT-s-OFDM QPSK	75/0	13.428	14.348	PASS
n2	15	15	371500	DFT-s-OFDM 16QAM	75/0	13.412	14.236	PASS
n2	15	15	371500	DFT-s-OFDM 64QAM	75/0	13.400	14.173	PASS
n2	15	15	371500	DFT-s-OFDM 256QAM	75/0	13.442	14.365	PASS
n2	15	15	371500	CP-OFDM QPSK	79/0	14.107	16.510	PASS
n2	15	15	376000	DFT-s-OFDM PI/2 BPSK	75/0	13.411	14.357	PASS
n2	15	15	376000	DFT-s-OFDM QPSK	75/0	13.436	14.299	PASS
n2	15	15	376000	DFT-s-OFDM 16QAM	75/0	13.435	14.326	PASS
n2	15	15	376000	DFT-s-OFDM 64QAM	75/0	13.400	14.393	PASS
n2	15	15	376000	DFT-s-OFDM 256QAM	75/0	13.434	14.161	PASS

n2	15	15	376000	CP-OFDM QPSK	79/0	14.119	16.440	PASS
n2	15	15	380500	DFT-s-OFDM PI/2 BPSK	75/0	13.423	14.337	PASS
n2	15	15	380500	DFT-s-OFDM QPSK	75/0	13.434	14.394	PASS
n2	15	15	380500	DFT-s-OFDM 16QAM	75/0	13.435	14.469	PASS
n2	15	15	380500	DFT-s-OFDM 64QAM	75/0	13.399	14.236	PASS
n2	15	15	380500	DFT-s-OFDM 256QAM	75/0	13.429	14.335	PASS
n2	15	15	380500	CP-OFDM QPSK	79/0	14.118	16.952	PASS
n2	15	20	372000	DFT-s-OFDM PI/2 BPSK	100/0	17.873	19.063	PASS
n2	15	20	372000	DFT-s-OFDM QPSK	100/0	17.871	18.836	PASS
n2	15	20	372000	DFT-s-OFDM 16QAM	100/0	17.875	18.788	PASS
n2	15	20	372000	DFT-s-OFDM 64QAM	100/0	17.888	18.863	PASS
n2	15	20	372000	DFT-s-OFDM 256QAM	100/0	17.856	18.788	PASS
n2	15	20	372000	CP-OFDM QPSK	106/0	18.906	20.015	PASS
n2	15	20	376000	DFT-s-OFDM PI/2 BPSK	100/0	17.881	19.669	PASS
n2	15	20	376000	DFT-s-OFDM QPSK	100/0	17.899	18.984	PASS
n2	15	20	376000	DFT-s-OFDM 16QAM	100/0	17.889	18.979	PASS
n2	15	20	376000	DFT-s-OFDM 64QAM	100/0	17.915	18.853	PASS
n2	15	20	376000	DFT-s-OFDM 256QAM	100/0	17.866	18.809	PASS
n2	15	20	376000	CP-OFDM QPSK	106/0	18.933	21.404	PASS
n2	15	20	380000	DFT-s-OFDM PI/2 BPSK	100/0	17.890	19.093	PASS
n2	15	20	380000	DFT-s-OFDM QPSK	100/0	17.880	18.868	PASS
n2	15	20	380000	DFT-s-OFDM 16QAM	100/0	17.893	18.914	PASS
n2	15	20	380000	DFT-s-OFDM 64QAM	100/0	17.897	18.832	PASS
n2	15	20	380000	DFT-s-OFDM 256QAM	100/0	17.863	18.768	PASS

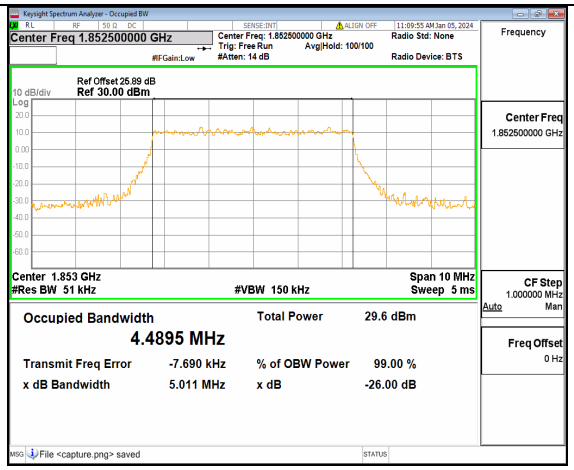
n2	15	20	380000	CP-OFDM QPSK	106/0	18.920	21.109	PASS



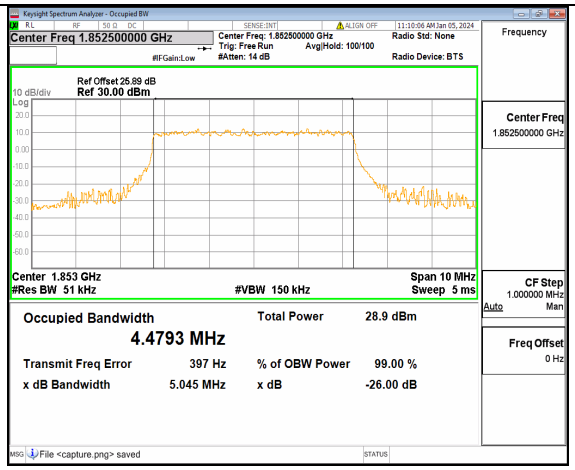
n2 5M DFT-s-OFDM BPSK Outer_Full Low



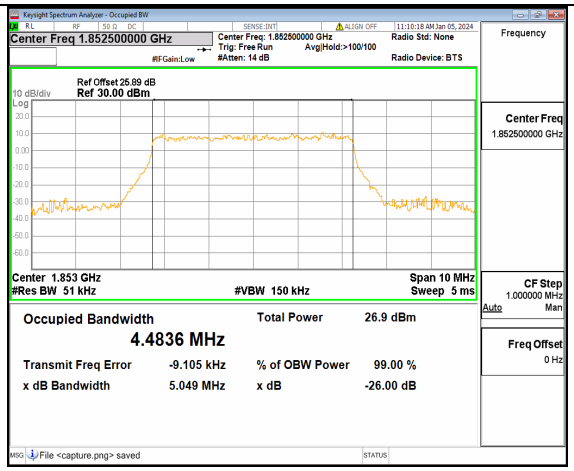
n2 5M DFT-s-OFDM QPSK Outer_Full Low



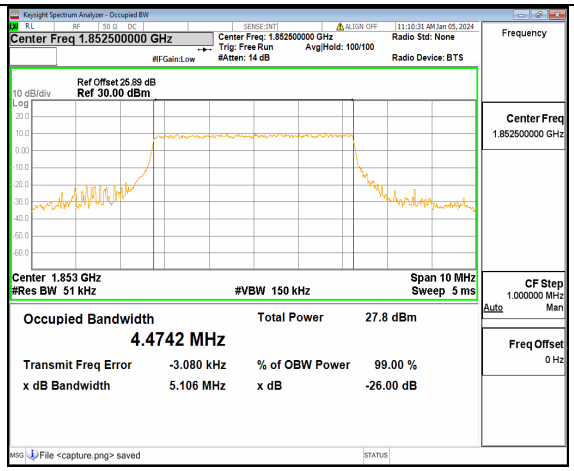
n2 5M DFT-s-OFDM 16QAM Outer_Full Low



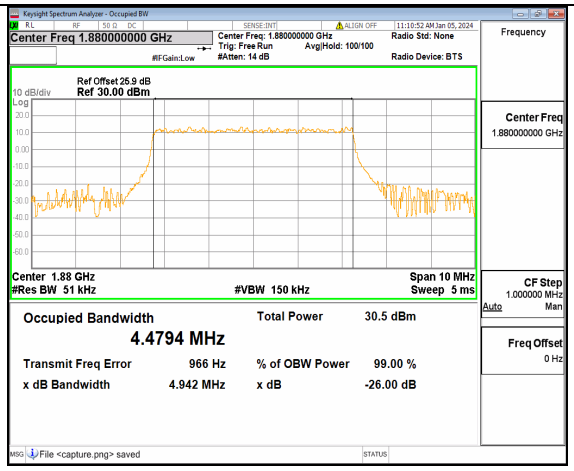
n2 5M DFT-s-OFDM 64QAM Outer_Full Low



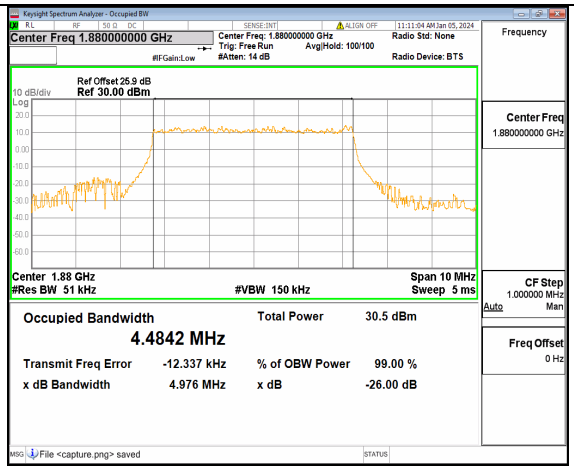
n2 5M DFT-s-OFDM 256QAM Outer_Full Low



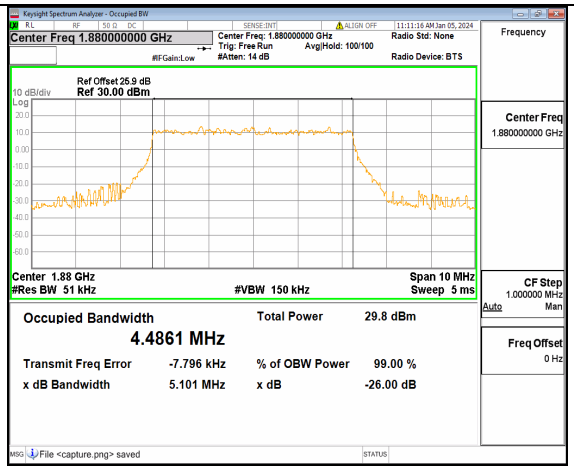
n2 5M CP-OFDM QPSK Outer_Full Low



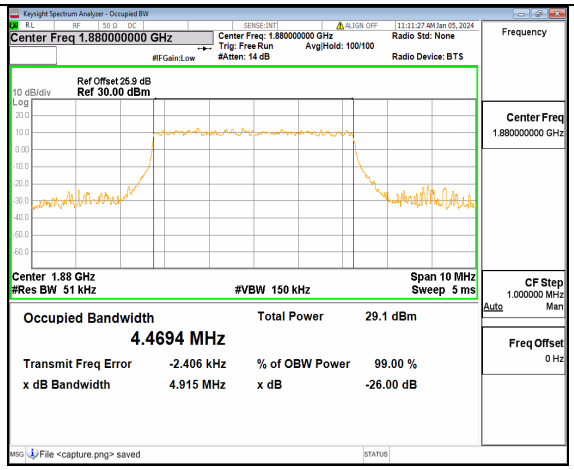
n2 5M DFT-s-OFDM BPSK Outer_Full Mid



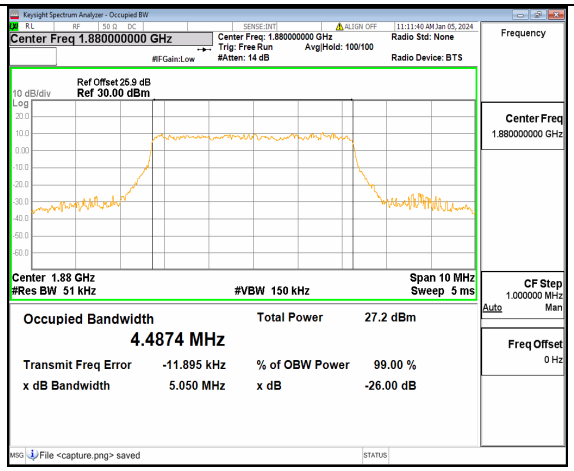
n2 5M DFT-s-OFDM QPSK Outer_Full Mid



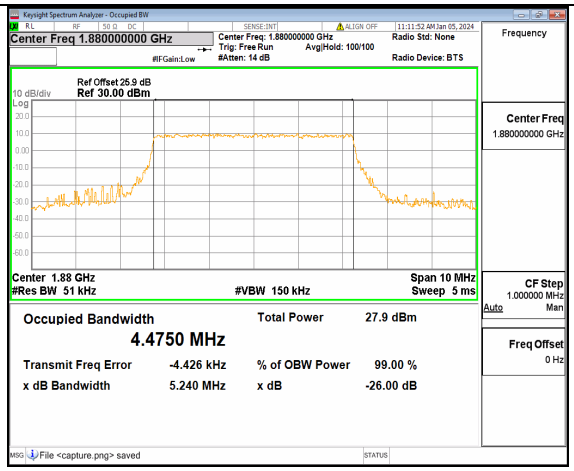
n2 5M DFT-s-OFDM 16QAM Outer_Full Mid



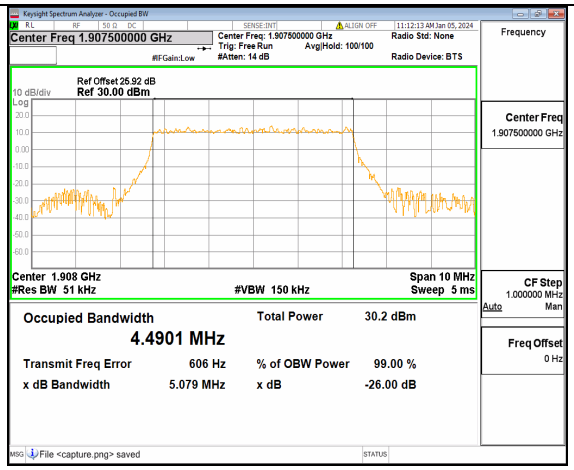
n2 5M DFT-s-OFDM 64QAM Outer_Full Mid



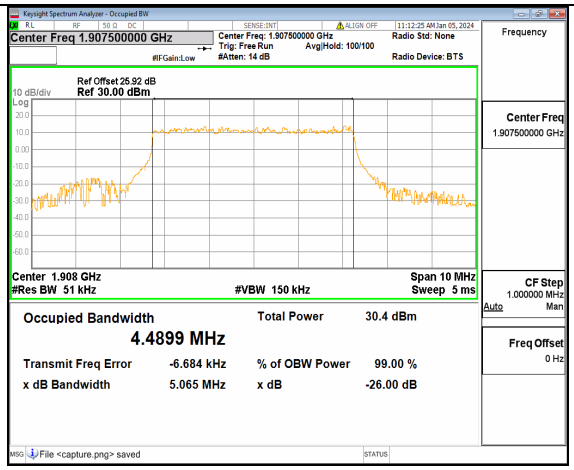
n2 5M DFT-s-OFDM 256QAM Outer_Full Mid



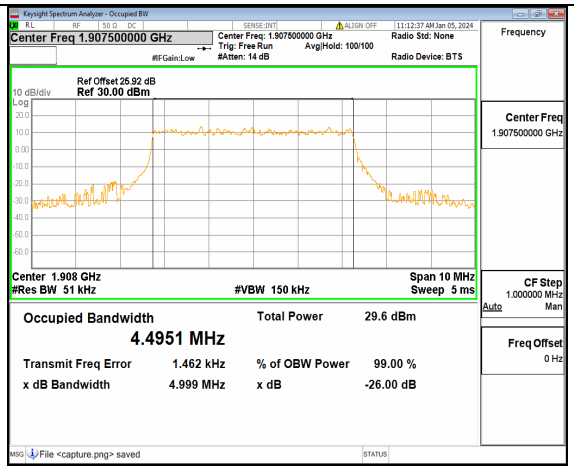
n2 5M CP-OFDM QPSK Outer_Full Mid



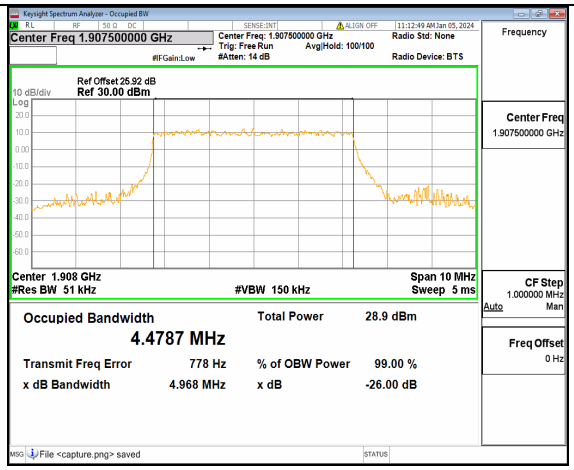
n2 5M DFT-s-OFDM BPSK Outer_Full High



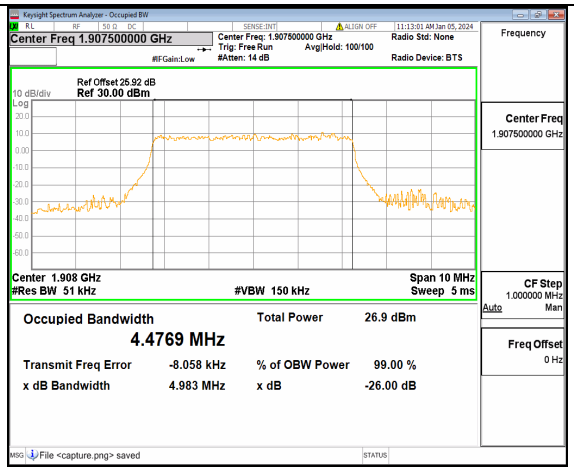
n2 5M DFT-s-OFDM QPSK Outer_Full High



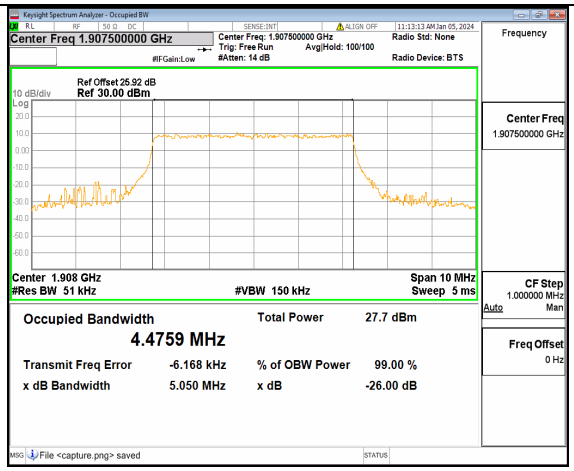
n2 5M DFT-s-OFDM 16QAM Outer_Full High



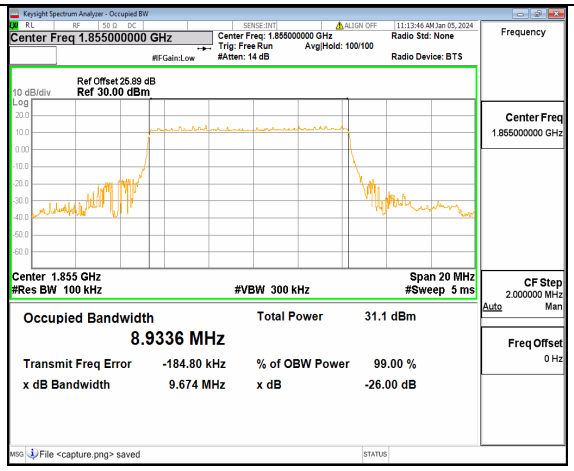
n2 5M DFT-s-OFDM 64QAM Outer_Full High



n2 5M DFT-s-OFDM 256QAM Outer_Full High

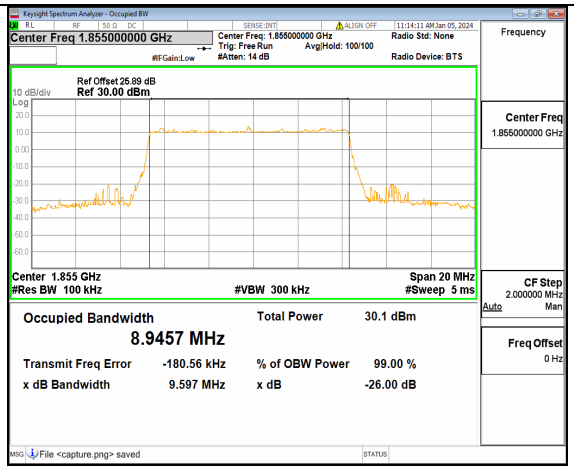


n2 5M CP-OFDM QPSK Outer_Full High

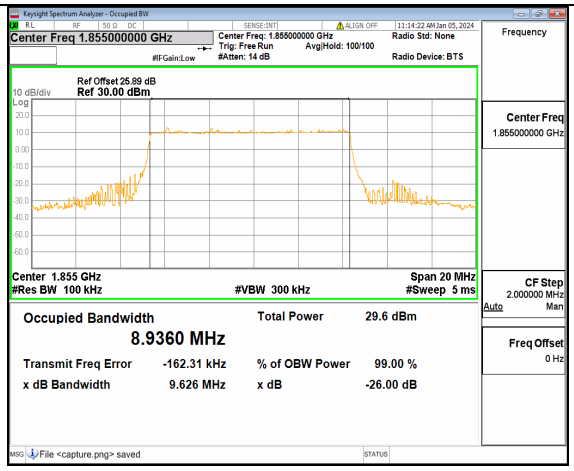


n2 10M DFT-s-OFDM BPSK Outer_Full Low

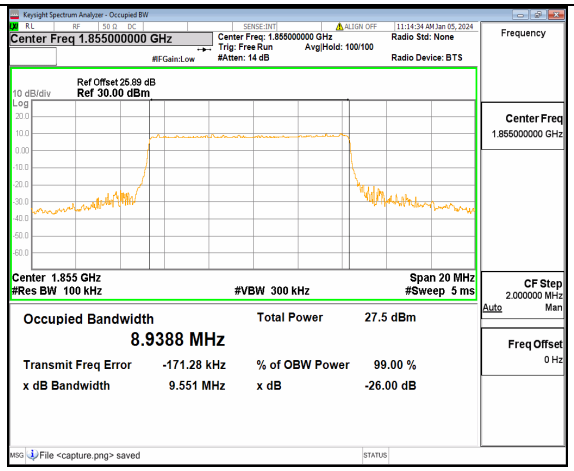
n2 10M DFT-s-OFDM QPSK Outer_Full Low



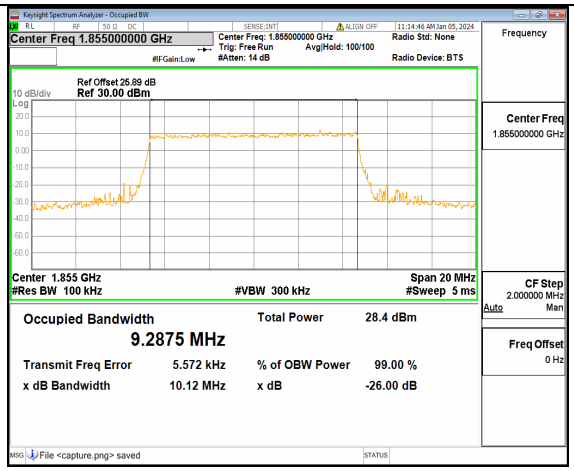
n2 10M DFT-s-OFDM 16QAM Outer_Full Low



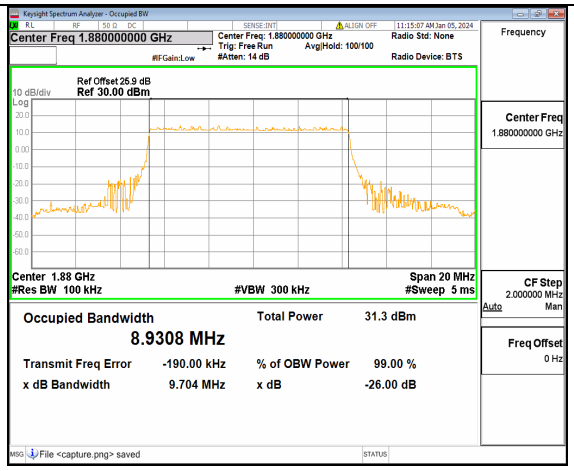
n2 10M DFT-s-OFDM 64QAM Outer_Full Low



n2 10M DFT-s-OFDM 256QAM Outer_Full Low

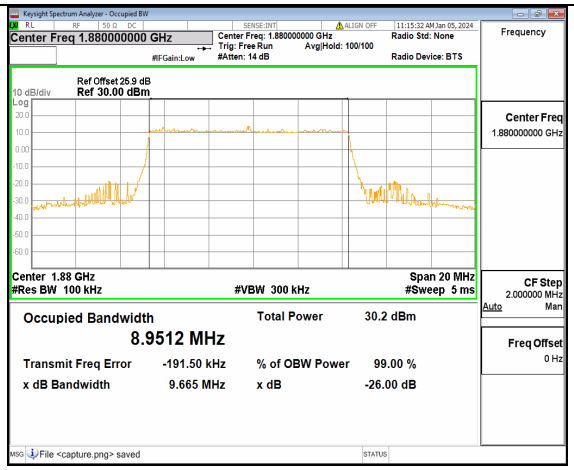


n2 10M CP-OFDM QPSK Outer_Full Low

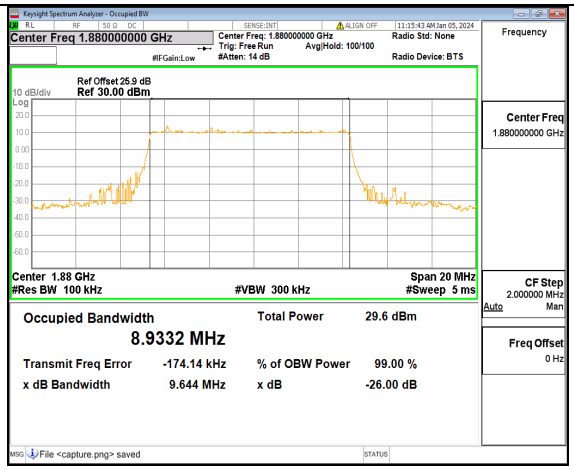


n2 10M DFT-s-OFDM BPSK Outer_Full Mid

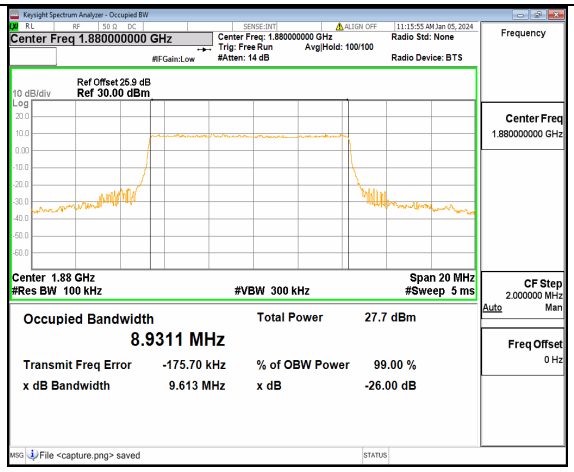
n2 10M DFT-s-OFDM QPSK Outer_Full Mid



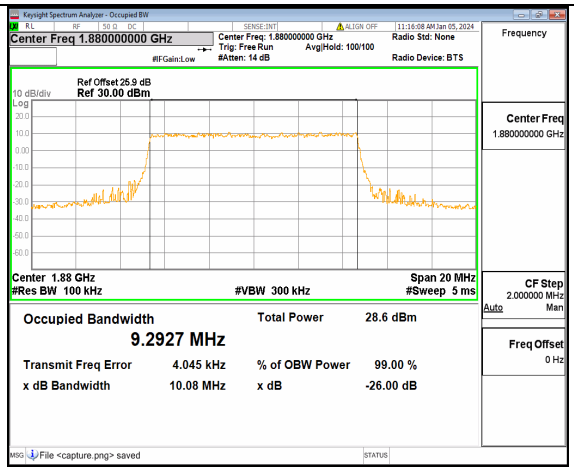
n2 10M DFT-s-OFDM 16QAM Outer_Full Mid



n2 10M DFT-s-OFDM 64QAM Outer_Full Mid

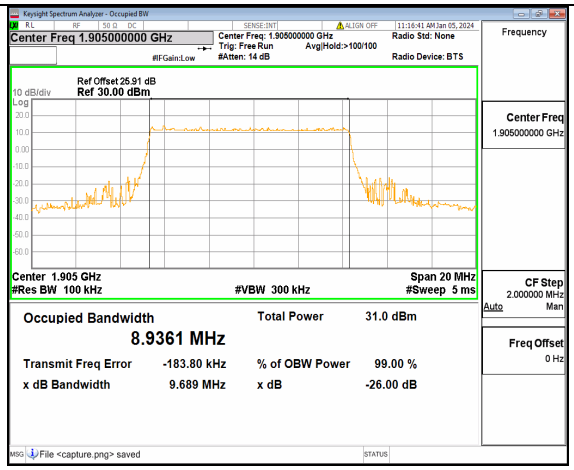


n2 10M DFT-s-OFDM 256QAM Outer_Full Mid

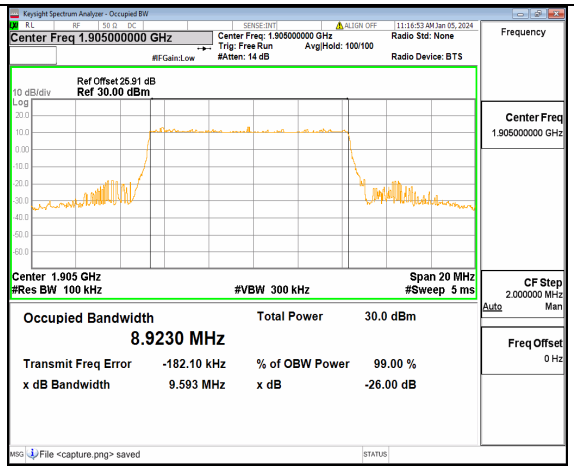


n2 10M CP-OFDM QPSK Outer_Full Mid

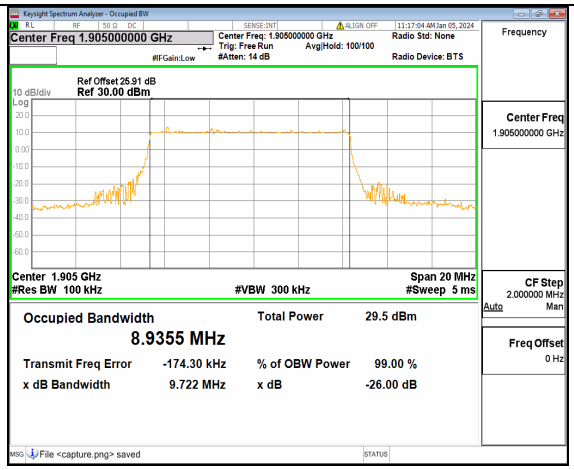
n2 10M DFT-s-OFDM BPSK Outer_Full High



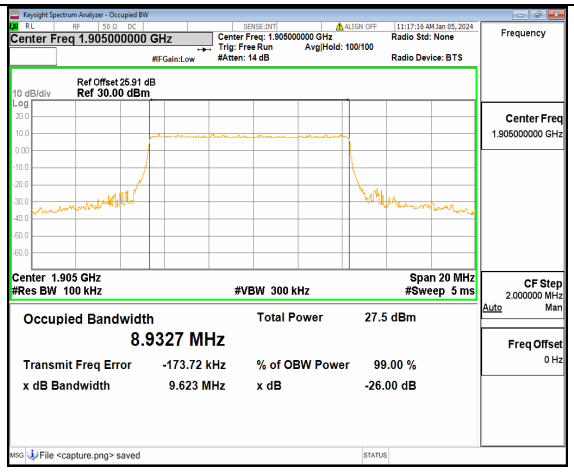
n2 10M DFT-s-OFDM QPSK Outer_Full High



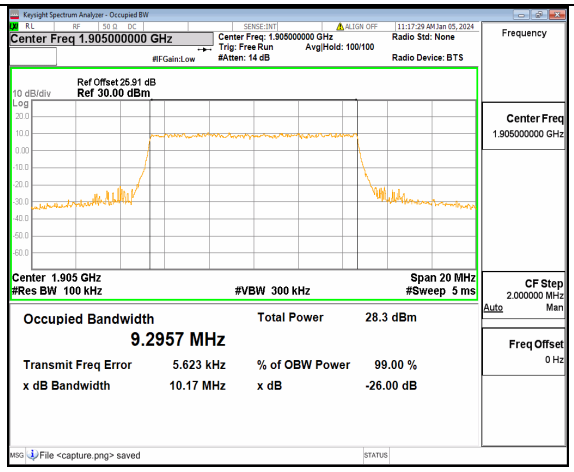
n2 10M DFT-s-OFDM 16QAM Outer_Full High



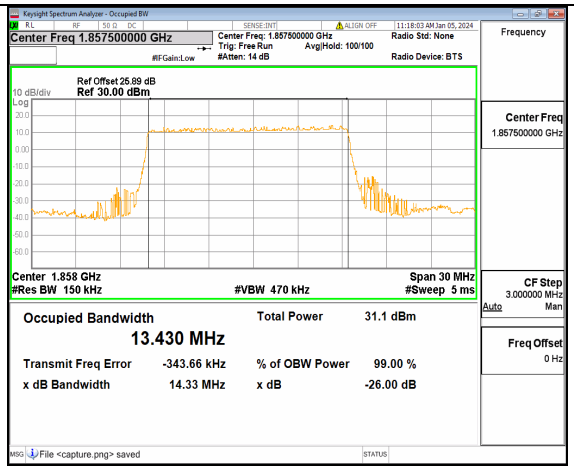
n2 10M DFT-s-OFDM 64QAM Outer_Full High



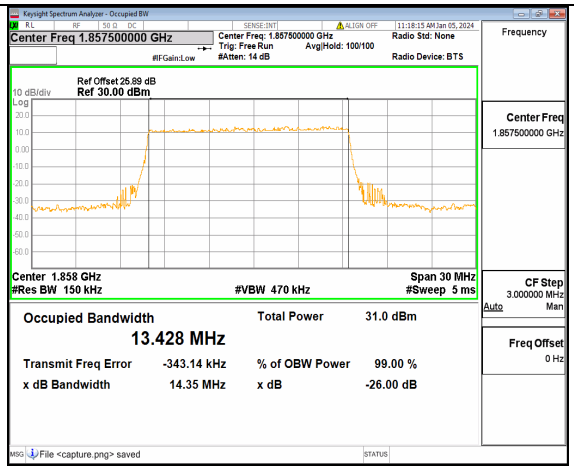
n2 10M DFT-s-OFDM 256QAM Outer_Full High



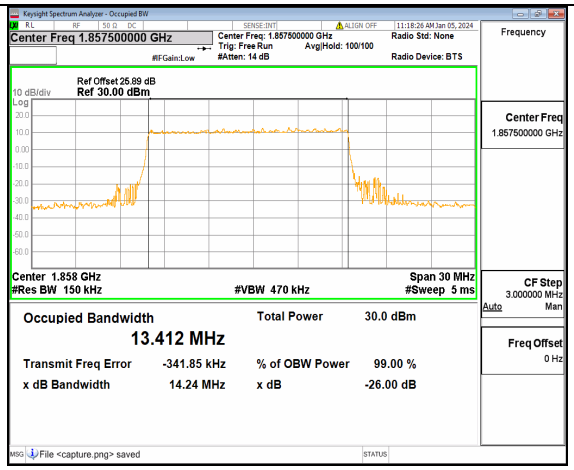
n2 10M CP-OFDM QPSK Outer_Full High



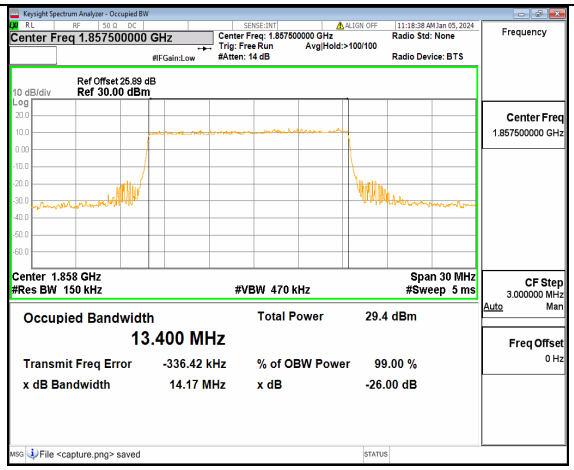
n2 15M DFT-s-OFDM BPSK Outer_Full Low



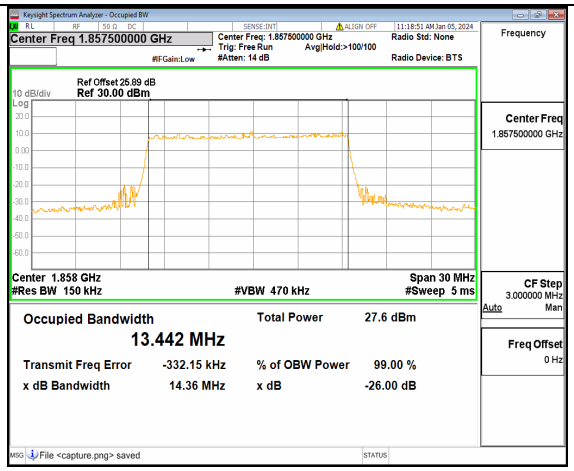
n2 15M DFT-s-OFDM QPSK Outer_Full Low



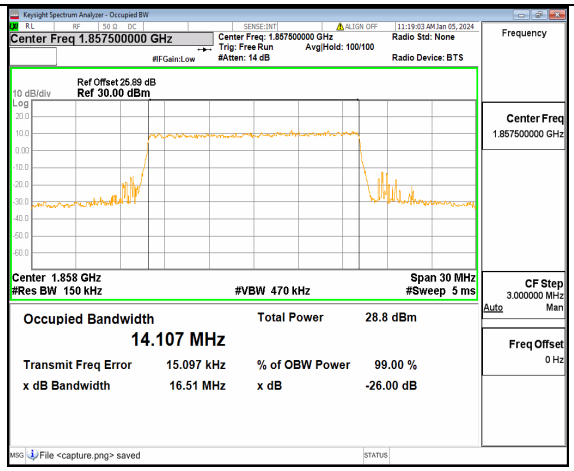
n2 15M DFT-s-OFDM 16QAM Outer_Full Low



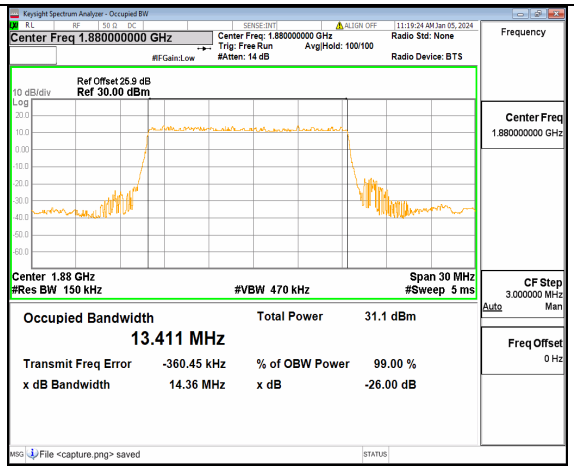
n2 15M DFT-s-OFDM 64QAM Outer_Full Low



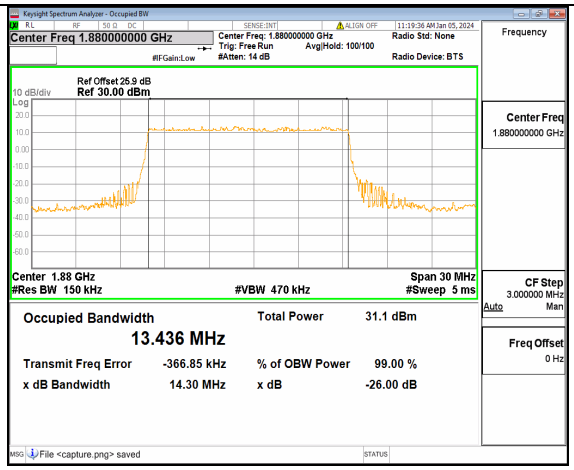
n2 15M DFT-s-OFDM 256QAM Outer_Full Low



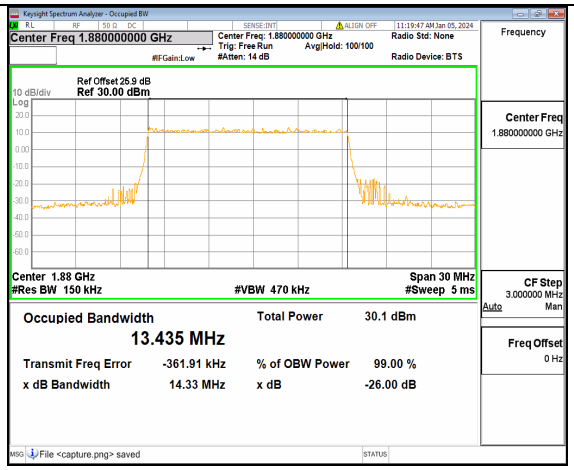
n2 15M CP-OFDM QPSK Outer_Full Low



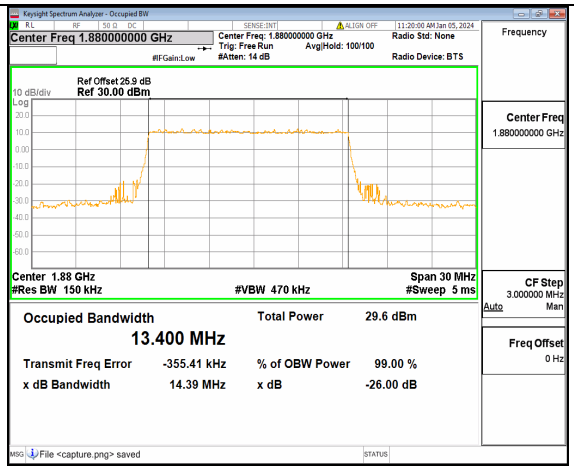
n2 15M DFT-s-OFDM BPSK Outer_Full Mid



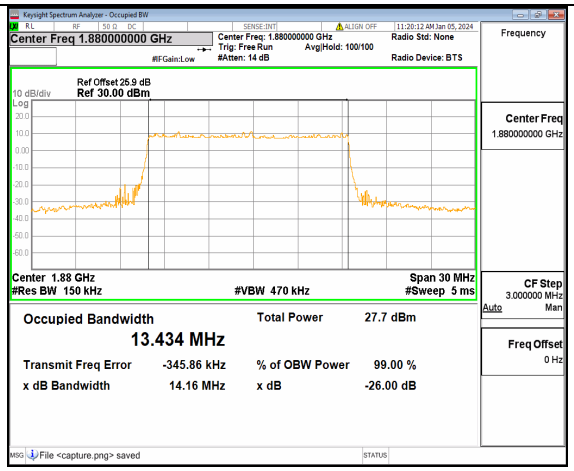
n2 15M DFT-s-OFDM QPSK Outer_Full Mid



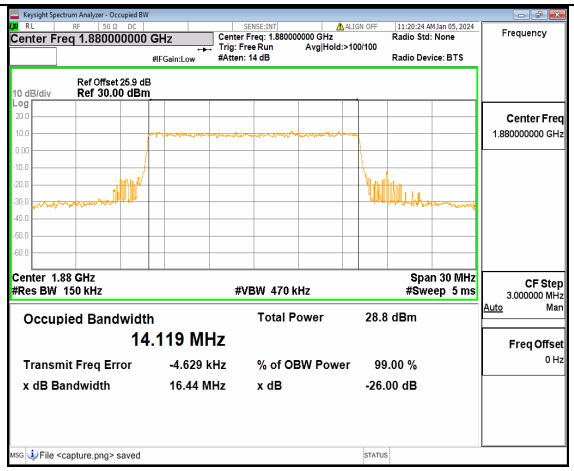
n2 15M DFT-s-OFDM 16QAM Outer_Full Mid



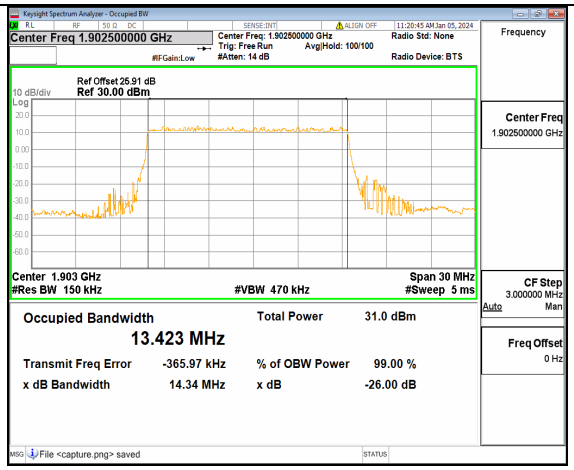
n2 15M DFT-s-OFDM 64QAM Outer_Full Mid



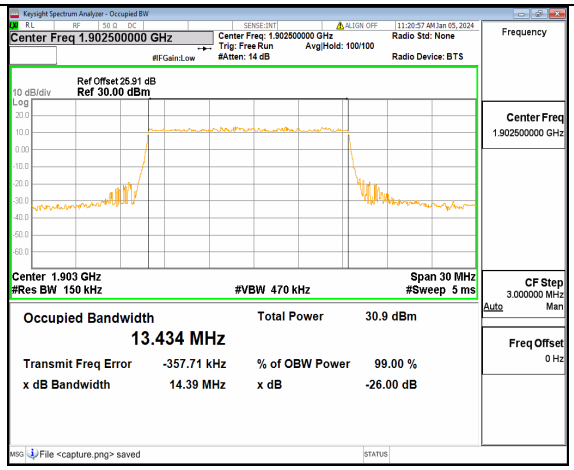
n2 15M DFT-s-OFDM 256QAM Outer_Full Mid



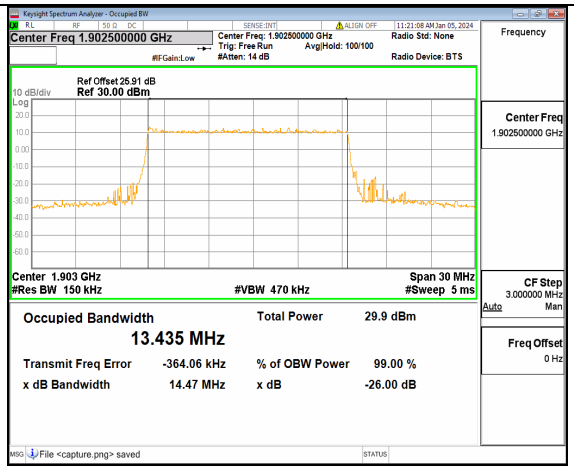
n2 15M CP-OFDM QPSK Outer_Full Mid



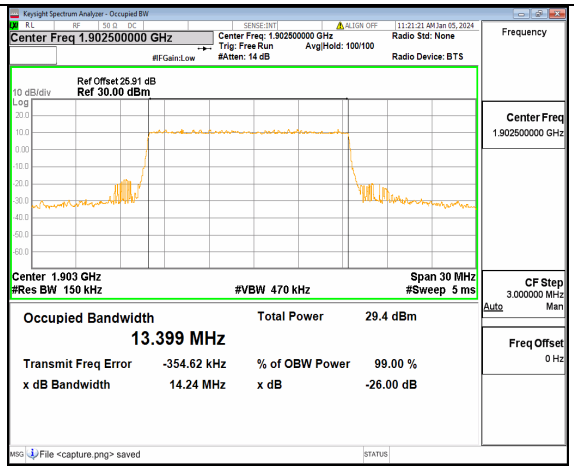
n2 15M DFT-s-OFDM BPSK Outer_Full High



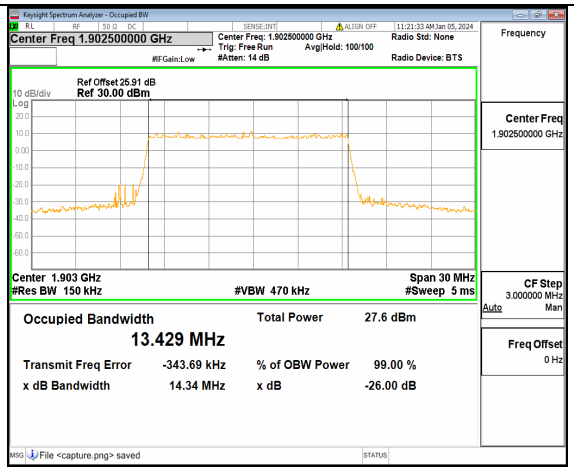
n2 15M DFT-s-OFDM QPSK Outer_Full High



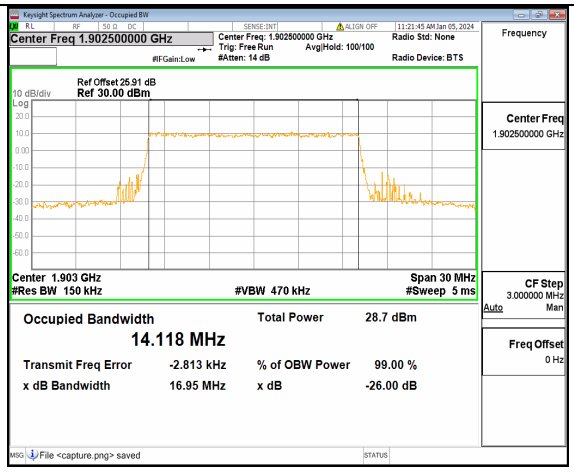
n2 15M DFT-s-OFDM 16QAM Outer_Full High



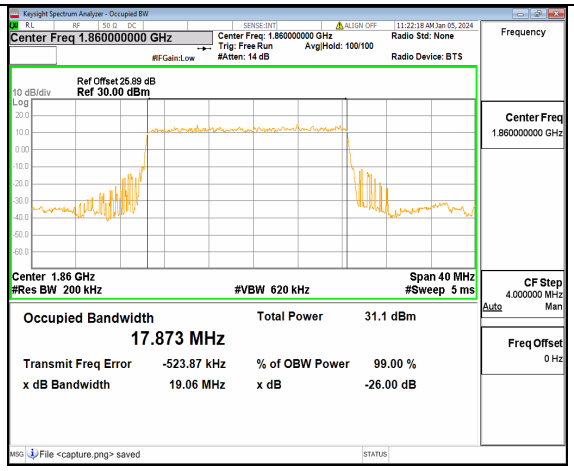
n2 15M DFT-s-OFDM 64QAM Outer_Full High



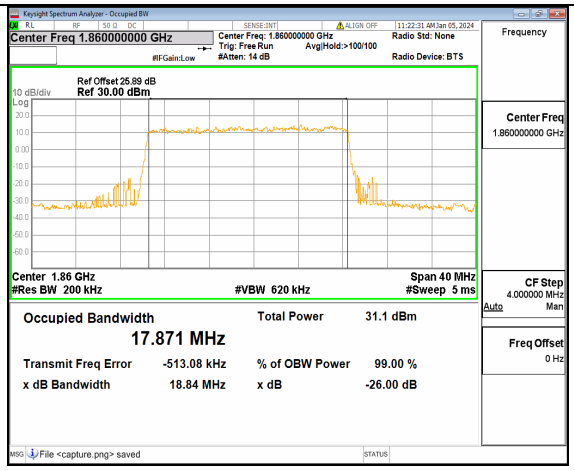
n2 15M DFT-s-OFDM 256QAM Outer_Full High



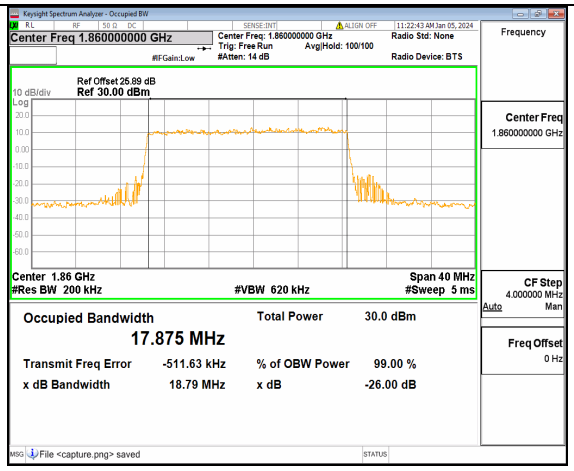
n2 15M CP-OFDM QPSK Outer_Full High



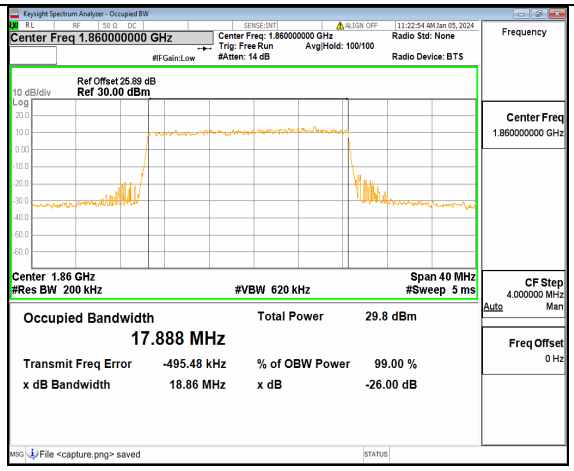
n2 20M DFT-s-OFDM BPSK Outer_Full Low



n2 20M DFT-s-OFDM QPSK Outer_Full Low



n2 20M DFT-s-OFDM 16QAM Outer_Full Low



n2 20M DFT-s-OFDM 64QAM Outer_Full Low