



TEST REPORT

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.

PRODUCT NAME : Mobile Phone

MODEL NAME : CPH2513, CPH2515

BRAND NAME : ONEPLUS

FCC ID : 2ABZ2-AA534

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

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Change History		
Version	Date	Reason for change
1.0	2023-03-13	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	OnePlus Technology (Shenzhen) Co., Ltd.
Applicant Address:	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China
Manufacturer:	OnePlus Technology (Shenzhen) Co., Ltd.
Manufacturer Address:	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Phone	
Hardware Version:	11	
Software Version:	OxygenOS 13.1	
IMEI:	869320060047646	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM
	CP-OFDM	QPSK, 16QAM, 64QAM, 256QAM
SA Band:	n2, n5, n12, n25, n41, n66, n71, n77, n78	
Power Class:	PC2:	n41, n77, n78
	PC3:	n2, n5, n12, n25, n41, n66, n71, n77, n78
EN-DC Band:	n2	DC_5A_n2, DC_12A_n2, DC_13A_n2, DC_66A_n2
	n5	DC_2A_n5, DC_7A_n5, DC_66A_n5, DC_48A_n5
	n25	DC_66A_n25
	n41	DC_2A_n41, DC_25A_n41, DC_26A_n41, DC_66A_n41
	n66	DC_2A_n66, DC_5A_n66, DC_7A_n66, DC_12A_n66, DC_13A_n66, DC_48A_n66
	n71	DC_2A_n71, DC_7A_n71, DC_66A_n71
	n77	DC_2A_n77, DC_5A_n77, DC_7A_n77, DC_12A_n77, DC_13A_n77, DC_66A_n77



	n78	DC_2A_n78, DC_5A_n78, DC_7A_n78, DC_12A_n78, DC_66A_n78
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n12	Tx: 699MHz-716MHz
		Rx: 729MHz-746MHz
	n25	Tx: 1850MHz-1915MHz
		Rx: 1930MHz-1995MHz
	n41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	n66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2200MHz
	n71	Tx: 663MHz-698MHz
		Rx: 617MHz-652MHz
n77 : (enabling bands)	Tx: 3700MHz-3980MHz	
	Rx: 3700MHz-3980MHz	
	Tx: 3450MHz-3550MHz	
	Rx: 3450MHz-3550MHz	
n78: (enabling bands)	Tx: 3700MHz-3800MHz	
	Rx: 3700MHz-3800MHz	
	Tx: 3450MHz-3550MHz	
	Rx: 3450MHz-3550MHz	
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n12	5MHz, 10MHz, 15MHz
	n25	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz,
	n41	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz,
	n71	5MHz, 10MHz, 15MHz, 20MHz
	n77	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
	n78	20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 70MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	n2	ANT0: 0.0dBi, ANT1: 0.7dBi, ANT4: -3.5dBi
	n5	ANT0: -4.6dBi, ANT1: -1.7dBi,



	n12	ANT0: -4.5dBi, ANT1: -3.8dBi,
	n25	ANT0: 0.0dBi, ANT1: 0.7dBi, ANT4: -3.5dBi,
	n41	ANT0: -0.2dBi, ANT1: 2.5dBi, ANT4: -0.7dBi
	n66	ANT0: 1.9dBi, ANT1: -0.3dBi, ANT4: -2.3dBi
	n71	ANT0: -4.6dBi, ANT1: -2.9dBi
	n77	ANT3: -3.5dBi, ANT4: -3.5dBi, ANT5: -3.5dBi, ANT6: -3.5dBi
	n78	ANT3: -3.5dBi, ANT4: -3.5dBi, ANT5: -3.5dBi, ANT6: -3.5dBi
	Accessory Information:	Battery 1:
Brand Name:		SUPERVOOC
Model No.:		BLP989
Serial No.:		N/A
Capacity:		Typical: 5000mAh, Rated: 4880mAh
Rated Voltage:		3.89V
Charge Limit:		4.48V
Manufacturer:		Dongguan NVT Technology Co., Ltd.
Battery 2:		
Brand Name:		SUPERVOOC
Model No.:		BLP989
Serial No.:		N/A
Capacity:		Typical: 5000mAh, Rated: 4880mAh
Rated Voltage:		3.89V
Charge Limit:		4.48V
Manufacturer:		SUNWODA Electronic Co., Ltd.
AC Adapter 1:		
Brand Name:		SUPERVOOC
Model No.:		VCB7CAUH
Serial No.:		N/A
Rated Input:		100-130V, 200-240V~50/60HZ, 1.8A
Rated Output:		5V=2A or 5V-11V=5A Max 5V=2A or 5V-11V=6.1A Max
Manufacturer:		Dongguan YOHO Electronic Technology Co., Ltd.
AC Adapter 2:		
Brand Name:		SUPERVOOC
Model No.:		VCB7CAUH
Serial No.:		N/A
Rated Input:		100-130V, 200-240V 50/60HZ, 1.8A



	Rated Output:	5V=2A or 5V-11V=5A Max 5V=2A or 5V-11V=6.1A Max
	Manufacturer:	Jiangsu Chenyang Electron Co., Ltd.
	USB Cable 1:	
	Model No.:	DL124
	USB Cable 2:	
	Model No.:	DL129

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

Note 2: There is no test for SA n78 due to the band is completely covered by SA n77 and its power level setting also less than SA n77.

Note 3: According to the certificate holder, they declared that the models CPH2513 for dual SIM and CPH2515 for single SIM are accordant in both hardware and software version. These two models only differ in model name and SIM card slot. Everything else are the same. The main measuring model is CPH2515, only the results for CPH2515 were recorded in this report.



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 (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4492	4M49G7D
	QPSK	23.95	24.65	0.292	4459	4M46G7D
	16QAM	/	/	/	4495	4M50D7W
	64QAM	/	/	/	4512	4M51D7W
	256QAM	/	/	/	4492	4M49D7W
	CP-QPSK	/	/	/	4513	4M51D7W
10	PI/2 BPSK	/	/	/	8937	8M94G7D
	QPSK	24.00	24.70	0.295	8936	8M94G7D
	16QAM	/	/	/	8916	8M92D7W
	64QAM	/	/	/	8935	8M94D7W
	256QAM	/	/	/	8937	8M94D7W
	CP-QPSK	/	/	/	9291	9M29D7W
15	PI/2 BPSK	/	/	/	13450	13M5G7D
	QPSK	23.96	24.66	0.292	13383	13M4G7D
	16QAM	/	/	/	13437	13M4D7W
	64QAM	/	/	/	13463	13M5D7W
	256QAM	/	/	/	13447	13M4D7W
	CP-QPSK	/	/	/	14191	14M2D7W
20	PI/2 BPSK	23.92	24.62	0.290	17969	18M0G7D
	QPSK	24.02	24.72	0.296	17920	17M9G7D
	16QAM	23.76	24.46	0.279	17856	17M9D7W
	64QAM	22.30	23.00	0.200	17824	17M8D7W
	256QAM	19.82	20.52	0.113	17899	17M9D7W
	CP-QPSK	/	/	/	19016	19M0D7W



n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4442	4M44G7D
	QPSK	23.96	22.26	0.168	4505	4M51G7D
	16QAM	/	/	/	4462	4M46D7W
	64QAM	/	/	/	4483	4M48D7W
	256QAM	/	/	/	4481	4M48D7W
	CP-QPSK	/	/	/	4483	4M48D7W
10	PI/2 BPSK	/	/	/	8931	8M93G7D
	QPSK	23.90	22.20	0.166	8930	8M93G7D
	16QAM	/	/	/	9030	9M03D7W
	64QAM	/	/	/	9003	9M00D7W
	256QAM	/	/	/	8903	8M90D7W
	CP-QPSK	/	/	/	9344	9M34D7W
15	PI/2 BPSK	/	/	/	13495	13M5G7D
	QPSK	24.01	22.31	0.170	13506	13M5G7D
	16QAM	/	/	/	13424	13M4D7W
	64QAM	/	/	/	13568	13M6D7W
	256QAM	/	/	/	13445	13M4D7W
	CP-QPSK	/	/	/	14157	14M2D7W
20	PI/2 BPSK	24.02	22.32	0.171	18072	18M1G7D
	QPSK	24.05	22.35	0.172	18005	18M0G7D
	16QAM	23.54	21.84	0.153	17894	17M9D7W
	64QAM	22.25	20.55	0.114	17896	17M9D7W
	256QAM	19.63	17.93	0.062	17926	17M9D7W
	CP-QPSK	/	/	/	18970	19M0D7W

n12						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4488	4M49G7D
	QPSK	23.95	20.15	0.104	4505	4M51G7D
	16QAM	/	/	/	4496	4M50D7W
	64QAM	/	/	/	4485	4M49D7W
	256QAM	/	/	/	4504	4M50D7W



	CP-QPSK	/	/	/	4497	4M50D7W
10	PI/2 BPSK	/	/	/	8974	8M97G7D
	QPSK	23.91	20.11	0.103	9034	9M03G7D
	16QAM	/	/	/	8904	8M90D7W
	64QAM	/	/	/	8998	9M00D7W
	256QAM	/	/	/	9017	9M02D7W
	CP-QPSK	/	/	/	9347	9M35D7W
15	PI/2 BPSK	23.98	20.18	0.104	13584	13M6G7D
	QPSK	24.04	20.24	0.106	13532	13M5G7D
	16QAM	23.56	19.76	0.095	13434	13M4D7W
	64QAM	22.06	18.26	0.067	13569	13M6D7W
	256QAM	19.71	15.91	0.039	13515	13M5D7W
	CP-QPSK	/	/	/	14217	14M2D7W

n25						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4526	4M53G7D
	QPSK	23.85	24.55	0.285	4510	4M51G7D
	16QAM	/	/	/	4452	4M45D7W
	64QAM	/	/	/	4492	4M49D7W
	256QAM	/	/	/	4501	4M50D7W
	CP-QPSK	/	/	/	4443	4M44D7W
10	PI/2 BPSK	/	/	/	9018	9M02G7D
	QPSK	23.96	24.66	0.292	9016	9M02G7D
	16QAM	/	/	/	9041	9M04D7W
	64QAM	/	/	/	8918	8M92D7W
	256QAM	/	/	/	8992	8M99D7W
	CP-QPSK	/	/	/	9281	9M28D7W
15	PI/2 BPSK	/	/	/	13428	13M4G7D
	QPSK	23.97	24.67	0.293	13507	13M5G7D
	16QAM	/	/	/	13479	13M5D7W
	64QAM	/	/	/	13498	13M5D7W
	256QAM	/	/	/	13430	13M4D7W
	CP-QPSK	/	/	/	14204	14M2D7W
20	PI/2 BPSK	/	/	/	17922	17M9G7D



	QPSK	24.02	24.72	0.296	18079	18M1G7D
	16QAM	/	/	/	17983	18M0D7W
	64QAM	/	/	/	17817	17M8D7W
	256QAM	/	/	/	17898	17M9D7W
	CP-QPSK	/	/	/	19023	19M0D7W
30	PI/2 BPSK	/	/	/	28688	28M7G7D
	QPSK	24.01	24.71	0.296	28761	28M8G7D
	16QAM	/	/	/	28753	28M8D7W
	64QAM	/	/	/	28736	28M7D7W
	256QAM	/	/	/	28616	28M6D7W
	CP-QPSK	/	/	/	28853	28M9D7W
40	PI/2 BPSK	24.05	24.75	0.299	38718	38M7G7D
	QPSK	24.07	24.77	0.300	38972	39M0G7D
	16QAM	23.45	24.15	0.260	38887	38M9D7W
	64QAM	21.93	22.63	0.183	38918	38M9D7W
	256QAM	19.50	20.20	0.105	38568	38M6D7W
	CP-QPSK	/	/	/	35568	35M6D7W

n41						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20	PI/2 BPSK	/	/	/	18102	18M1G7D
	QPSK	25.86	28.36	0.685	18021	18M0G7D
	16QAM	/	/	/	18083	18M1D7W
	64QAM	/	/	/	17955	18M0D7W
	256QAM	/	/	/	18067	18M1D7W
	CP-QPSK	/	/	/	18048	18M0D7W
30	PI/2 BPSK	/	/	/	27021	27M0G7D
	QPSK	25.85	28.35	0.684	26780	26M8G7D
	16QAM	/	/	/	27075	27M1D7W
	64QAM	/	/	/	26976	27M0D7W
	256QAM	/	/	/	26992	27M0D7W
	CP-QPSK	/	/	/	27138	27M1D7W
40	PI/2 BPSK	/	/	/	36101	36M1G7D
	QPSK	25.82	28.32	0.679	35987	36M0G7D
	16QAM	/	/	/	35874	36M9D7W



	64QAM	/	/	/	35752	36M8D7W
	256QAM	/	/	/	35963	36M0D7W
	CP-QPSK	/	/	/	35985	36M0D7W
50	PI/2 BPSK	/	/	/	46582	46M6G7D
	QPSK	25.89	28.39	0.690	46127	46M1G7D
	16QAM	/	/	/	45839	45M8D7W
	64QAM	/	/	/	46055	46M1D7W
	256QAM	/	/	/	46217	46M2D7W
	CP-QPSK	/	/	/	46339	46M3D7W
60	PI/2 BPSK	/	/	/	58574	58M6G7D
	QPSK	25.74	28.24	0.667	58455	58M5G7D
	16QAM	/	/	/	57747	58M7D7W
	64QAM	/	/	/	58579	58M6D7W
	256QAM	/	/	/	57722	57M7D7W
	CP-QPSK	/	/	/	58522	58M5D7W
70	PI/2 BPSK	/	/	/	64341	64M3G7D
	QPSK	25.62	28.12	0.649	64393	64M4G7D
	16QAM	/	/	/	64387	64M4D7W
	64QAM	/	/	/	64364	64M4D7W
	256QAM	/	/	/	64291	64M3D7W
	CP-QPSK	/	/	/	67546	67M5D7W
80	PI/2 BPSK	/	/	/	77931	77M9G7D
	QPSK	25.63	28.13	0.650	78099	78M1G7D
	16QAM	/	/	/	77756	77M8D7W
	64QAM	/	/	/	78127	78M1D7W
	256QAM	/	/	/	78221	78M2D7W
	CP-QPSK	/	/	/	78215	78M2D7W
90	PI/2 BPSK	/	/	/	86676	86M7G7D
	QPSK	25.67	28.17	0.656	86707	86M7G7D
	16QAM	/	/	/	86836	86M8D7W
	64QAM	/	/	/	86576	86M6D7W
	256QAM	/	/	/	86538	86M5D7W
	CP-QPSK	/	/	/	87458	87M5D7W
100	PI/2 BPSK	25.72	28.22	0.664	97105	97M1G7D
	QPSK	25.92	28.42	0.695	97552	97M6G7D
	16QAM	25.10	27.60	0.575	97465	97M5D7W
	64QAM	23.66	26.16	0.413	96963	97M0D7W



	256QAM	21.43	23.93	0.247	97618	97M6D7W
	CP-QPSK	/	/	/	97096	97M1D7W

n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4483	4M48G7D
	QPSK	23.47	25.37	0.344	4459	4M46G7D
	16QAM	/	/	/	4511	4M51D7W
	64QAM	/	/	/	4461	4M46D7W
	256QAM	/	/	/	4496	4M50D7W
	CP-QPSK	/	/	/	4502	4M50D7W
10	PI/2 BPSK	/	/	/	9045	9M05G7D
	QPSK	24.19	26.09	0.406	8910	8M91G7D
	16QAM	/	/	/	8931	8M93D7W
	64QAM	/	/	/	8937	8M94D7W
	256QAM	/	/	/	8972	8M97D7W
	CP-QPSK	/	/	/	9304	9M30D7W
15	PI/2 BPSK	/	/	/	13588	13M6G7D
	QPSK	24.24	26.14	0.411	13553	13M6G7D
	16QAM	/	/	/	13534	13M5D7W
	64QAM	/	/	/	13564	13M6D7W
	256QAM	/	/	/	13501	13M5D7W
	CP-QPSK	/	/	/	14242	14M2D7W
20	PI/2 BPSK	/	/	/	18090	18M1G7D
	QPSK	24.19	26.09	0.406	18119	18M1G7D
	16QAM	/	/	/	18075	18M1D7W
	64QAM	/	/	/	18129	18M1D7W
	256QAM	/	/	/	17906	18M0D7W
	CP-QPSK	/	/	/	19065	19M1D7W
30	PI/2 BPSK	/	/	/	28832	28M8G7D
	QPSK	24.26	26.16	0.413	28701	28M7G7D
	16QAM	/	/	/	28818	28M8D7W
	64QAM	/	/	/	28762	28M8D7W
	256QAM	/	/	/	28626	28M6D7W
	CP-QPSK	/	/	/	28723	28M7D7W



40	PI/2 BPSK	24.18	26.08	0.406	38943	38M9G7D
	QPSK	24.27	26.17	0.414	38497	38M5G7D
	16QAM	23.29	25.19	0.330	38925	38M9D7W
	64QAM	22.00	23.90	0.245	38601	38M6D7W
	256QAM	19.59	21.49	0.141	38775	38M8D7W
	CP-QPSK	/	/	/	38759	38M8D7W

n71						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4497	4M50G7D
	QPSK	23.88	20.98	0.125	4509	4M51G7D
	16QAM	/	/	/	4481	4M48D7W
	64QAM	/	/	/	4509	4M51D7W
	256QAM	/	/	/	4488	4M49D7W
	CP-QPSK	/	/	/	4502	4M50D7W
10	PI/2 BPSK	/	/	/	8904	8M90G7D
	QPSK	23.99	21.09	0.129	9016	9M02G7D
	16QAM	/	/	/	8889	8M89D7W
	64QAM	/	/	/	9010	9M01D7W
	256QAM	/	/	/	9005	9M00D7W
	CP-QPSK	/	/	/	9335	9M34D7W
15	PI/2 BPSK	/	/	/	13458	13M5G7D
	QPSK	24.02	21.12	0.129	13495	13M5G7D
	16QAM	/	/	/	13563	13M6D7W
	64QAM	/	/	/	13604	13M6D7W
	256QAM	/	/	/	13509	13M5D7W
	CP-QPSK	/	/	/	14271	14M3D7W
20	PI/2 BPSK	24.25	21.35	0.136	17958	18M0G7D
	QPSK	24.28	21.38	0.137	18004	18M0G7D
	16QAM	23.92	21.02	0.126	18007	18M0D7W
	64QAM	22.34	19.44	0.088	17988	18M0D7W
	256QAM	19.77	16.87	0.049	18193	18M2D7W
	CP-QPSK	/	/	/	19090	19M1D7W

n77 (3700 MHz ~ 3980 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17856	17M9G7D
	QPSK	25.81	22.31	0.170	17867	17M9G7D
	16QAM	/	/	/	18062	18M1D7W
	64QAM	/	/	/	17971	18M0D7W
	256QAM	/	/	/	17831	17M8D7W
	CP-QPSK	/	/	/	17892	17M9D7W
30	PI/2 BPSK	/	/	/	26929	26M9G7D
	QPSK	25.80	22.30	0.170	26952	27M0G7D
	16QAM	/	/	/	26915	26M9D7W
	64QAM	/	/	/	26673	26M7D7W
	256QAM	/	/	/	27082	27M1D7W
	CP-QPSK	/	/	/	26985	26M9D7W
40	PI/2 BPSK	/	/	/	36113	36M1G7D
	QPSK	25.82	22.32	0.171	35965	36M0G7D
	16QAM	/	/	/	36085	36M1D7W
	64QAM	/	/	/	35608	35M6D7W
	256QAM	/	/	/	36041	36M0D7W
	CP-QPSK	/	/	/	36130	36M1D7W
50	PI/2 BPSK	/	/	/	45574	45M6G7D
	QPSK	25.80	22.30	0.170	46039	46M0G7D
	16QAM	/	/	/	45581	45M6D7W
	64QAM	/	/	/	45869	45M9D7W
	256QAM	/	/	/	46148	46M1D7W
	CP-QPSK	/	/	/	46906	46M9D7W
60	PI/2 BPSK	/	/	/	58619	58M6G7D
	QPSK	25.77	22.27	0.169	58139	58M1G7D
	16QAM	/	/	/	58615	58M6D7W
	64QAM	/	/	/	58441	58M4D7W
	256QAM	/	/	/	58559	58M6D7W
	CP-QPSK	/	/	/	58337	58M3D7W
70	PI/2 BPSK	/	/	/	65099	65M1G7D
	QPSK	25.78	22.28	0.169	64464	64M5G7D
	16QAM	/	/	/	65176	65M2D7W



	64QAM	/	/	/	64959	65M0D7W
	256QAM	/	/	/	64926	64M9D7W
	CP-QPSK	/	/	/	64815	64M8D7W
80	PI/2 BPSK	/	/	/	78061	78M1G7D
	QPSK	25.72	22.22	0.167	77959	78M0G7D
	16QAM	/	/	/	77889	77M9D7W
	64QAM	/	/	/	77093	77M1D7W
	256QAM	/	/	/	77882	77M9D7W
	CP-QPSK	/	/	/	77675	77M7D7W
	90	PI/2 BPSK	/	/	/	86312
QPSK		25.69	22.19	0.166	86599	86M6G7D
16QAM		/	/	/	86073	86M1D7W
64QAM		/	/	/	86254	86M3D7W
256QAM		/	/	/	86622	86M6D7W
CP-QPSK		/	/	/	87450	87M5D7W
100	PI/2 BPSK	25.78	22.28	0.169	96459	96M5G7D
	QPSK	25.88	22.38	0.173	97272	97M3G7D
	16QAM	24.08	20.58	0.114	96407	96M4D7W
	64QAM	22.63	19.13	0.082	97633	97M6D7W
	256QAM	20.32	16.82	0.048	97383	97M4D7W
	CP-QPSK	/	/	/	97512	97M5D7W

n77 (3450 MHz ~ 3550 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20	PI/2 BPSK	/	/	/	17944	17M9G7D
	QPSK	25.69	22.19	0.166	18043	18M0G7D
	16QAM	/	/	/	17872	17M9D7W
	64QAM	/	/	/	17942	17M9D7W
	256QAM	/	/	/	18004	18M0D7W
	CP-QPSK	/	/	/	18046	18M0D7W
30	PI/2 BPSK	/	/	/	26972	27M0G7D
	QPSK	25.66	22.16	0.164	27118	27M1G7D
	16QAM	/	/	/	27085	27M1D7W
	64QAM	/	/	/	26983	27M0D7W
	256QAM	/	/	/	26910	26M9D7W



	CP-QPSK	/	/	/	26950	27M0D7W
40	PI/2 BPSK	/	/	/	35803	35M8G7D
	QPSK	25.71	22.21	0.166	36107	36M1G7D
	16QAM	/	/	/	36289	36M3D7W
	64QAM	/	/	/	36056	36M4D7W
	256QAM	/	/	/	36212	36M2D7W
	CP-QPSK	/	/	/	35803	35M8D7W
50	PI/2 BPSK	/	/	/	46093	46M1G7D
	QPSK	25.72	22.22	0.167	46195	46M2G7D
	16QAM	/	/	/	46140	46M1D7W
	64QAM	/	/	/	46010	46M0D7W
	256QAM	/	/	/	46174	46M2D7W
	CP-QPSK	/	/	/	46240	46M2D7W
60	PI/2 BPSK	/	/	/	58496	58M5G7D
	QPSK	25.69	22.19	0.166	58155	58M2G7D
	16QAM	/	/	/	58545	58M5D7W
	64QAM	/	/	/	58504	58M5D7W
	256QAM	/	/	/	58101	58M1D7W
	CP-QPSK	/	/	/	58347	58M3D7W
70	PI/2 BPSK	/	/	/	64875	64M9G7D
	QPSK	25.68	22.18	0.165	64948	64M9G7D
	16QAM	/	/	/	65054	65M1D7W
	64QAM	/	/	/	64761	64M8D7W
	256QAM	/	/	/	64786	64M8D7W
	CP-QPSK	/	/	/	65092	65M1D7W
80	PI/2 BPSK	/	/	/	77339	77M3G7D
	QPSK	25.72	22.22	0.167	78144	78M1G7D
	16QAM	/	/	/	77886	77M9D7W
	64QAM	/	/	/	77669	77M7D7W
	256QAM	/	/	/	78036	78M0D7W
	CP-QPSK	/	/	/	78133	78M1D7W
90	PI/2 BPSK	/	/	/	86540	86M5G7D
	QPSK	25.70	22.20	0.166	86443	86M4G7D
	16QAM	/	/	/	86675	86M7D7W
	64QAM	/	/	/	86396	86M4D7W
	256QAM	/	/	/	86561	86M6D7W
	CP-QPSK	/	/	/	87596	87M6D7W



100	PI/2 BPSK	25.53	22.03	0.160	96188	96M2G7D
	QPSK	25.73	22.23	0.167	95813	95M8G7D
	16QAM	24.42	20.92	0.124	97925	97M9D7W
	64QAM	23.38	19.88	0.097	96182	96M2D7W
	256QAM	20.67	17.17	0.052	96424	95M9D7W
	CP-QPSK	/	/	/	95877	95M9D7W

n78 (3700 MHz ~ 3800 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	25.58	22.08	0.161	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	25.55	22.05	0.160	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	25.58	22.08	0.161	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	25.64	22.14	0.164	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	25.61	22.11	0.163	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/



	QPSK	25.64	22.14	0.164	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	25.59	22.09	0.162	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	25.52	22.02	0.159	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	25.60	22.10	0.162	/	/
	QPSK	25.68	22.18	0.165	/	/
	16QAM	24.84	21.34	0.136	/	/
	64QAM	22.66	19.16	0.082	/	/
	256QAM	20.41	16.91	0.049	/	/

n78 (3450 MHz ~ 3550 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
20	PI/2 BPSK	/	/	/	/	/
	QPSK	25.66	22.16	0.164	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
30	PI/2 BPSK	/	/	/	/	/
	QPSK	25.66	22.16	0.164	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	25.75	22.25	0.168	/	/
	16QAM	/	/	/	/	/



	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	25.71	22.21	0.166	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	25.67	22.17	0.165	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
70	PI/2 BPSK	/	/	/	/	/
	QPSK	25.68	22.18	0.165	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	25.75	22.25	0.168	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	25.70	22.20	0.166	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	25.56	22.06	0.161	/	/
	QPSK	25.77	22.27	0.169	/	/
	16QAM	24.75	21.25	0.133	/	/
	64QAM	23.92	20.42	0.110	/	/
	256QAM	20.50	17.00	0.050	/	/



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24 and Part27 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

n2/25			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP \leq 2 W	PASS
Peak-Average Ratio	§24.232(d)	Limit \leq 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit EBW: No limit	PASS
Band Edges Compliance	§2.1051, §24.238(a)(b)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)(b)	\leq -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	\leq -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §24.235	No limit	N/A

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



n5			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP \leq 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)	\leq -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	\leq -13 dBm/1MHz	PASS
Frequency Stability	§2.1055, §22.355	\leq \pm 2.5ppm	PASS

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

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



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

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	§22.913(d)(5)	Limit ≤ 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(h)(1) §27.53(h)(3)(i)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)(1)	≤ -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(h)(1)	≤ -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

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



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

n77/78(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)/n78(3700~3800MHz)			
Item	FCC Rule No.	Requirements	Result
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP \leq 1W	PASS
Peak-Average Ratio	§27.50(j)(4)	\leq 13 dB	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	PASS
Band Edges Compliance	§2.1051, §27.53(n)(2)	Refer to section 2.6	PASS
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	\leq -13 dBm/1MHz	PASS
Field Strength of Spurious Radiation	§2.1053, §27.53(m)(4)	\leq -13 dBm/1MHz.	PASS
Frequency Stability	§2.1055, §27.54	No limit	N/A

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



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

Test Item	Test Date	Test Engineer	Result	Method Determination /Remark
Transmitter Conducted Output Power and ERP/EIRP	2023/01/14-2023/02/17	Li Huaijie	PASS	Nodeviation
Occupied Bandwidth	2023/01/16-2023/03/06	Li Huaijie	PASS	Nodeviation
Frequency Stability	2023/02/13	Li Huaijie	PASS	Nodeviation
Peak to Average Ratio	2023/01/16-2023/03/01	Li Huaijie	PASS	Nodeviation
Conducted Spurious Emissions	2023/01/16-2023/03/06	Li Huaijie	PASS	Nodeviation
Band Edge	2023/01/16-2023/03/01	Li Huaijie	PASS	Nodeviation
Radiated Spurious Emissions	2023/03/09	Lin Jiayong Yang Lian	PASS	Nodeviation

1.5. Environmental Conditions

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 -60
Atmospheric Pressure (kPa):	86-106



2. 47 CFR Part 2, Part 22, Part 24 and Part 27 Requirements

2.1. Transmitter Conducted Output Power

2.1.1. Requirement

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

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

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

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

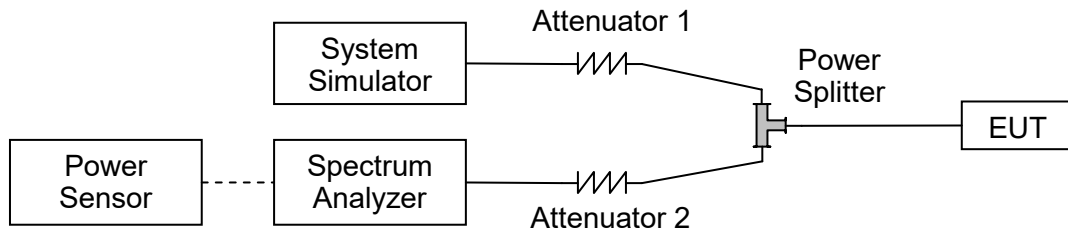
According to FCC section 27.50 (h)(2) for n41, mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50 (d)(4) for n66, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

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

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

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	23.77	23.69	23.81
20		1	53	23.86	23.92	23.82
20		1	104	23.61	23.74	23.76
20		50	1	22.98	23.04	23.20
20		50	25	23.25	23.05	23.16
20		50	50	22.68	22.79	22.67
20		100	0	23.20	23.10	23.21
20	DFT-s-OFDM QPSK	1	1	23.96	24.02	23.99
20		1	53	23.91	23.97	23.93
20		1	104	23.84	23.87	23.80
20		50	1	23.50	23.58	23.55
20		50	25	23.35	23.37	23.51
20		50	50	23.12	23.39	23.40
20		100	0	23.29	23.09	23.10
20	DFT-s-OFDM 16QAM	1	1	23.67	23.59	23.76
20	DFT-s-OFDM 64QAM	1	1	22.19	22.25	22.30
20	DFT-s-OFDM 256QAM	1	1	19.80	19.63	19.82
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.96	23.85	23.87
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	24.00	23.97	23.86
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.95	23.92	23.94
Channel				372000	376000	380000



Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	23.04	22.73	22.86
20	CP-OFDM 16QAM	1	1	22.68	22.57	22.65
20	CP-OFDM 64QAM	1	1	21.55	21.34	21.52
20	CP-OFDM 256QAM	1	1	17.73	17.83	17.84



n5

BW [MHz]	Modulation	RB Size	RB Offset	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	23.88	23.96	23.91
20		1	53	23.95	24.02	24.01
20		1	104	24.00	24.02	23.92
20		50	1	23.43	23.49	23.49
20		50	25	23.48	23.52	23.48
20		50	50	23.47	23.51	23.43
20		100	0	23.45	23.48	23.48
20	DFT-s-OFDM QPSK	1	1	24.02	24.05	23.92
20		1	53	24.01	24.03	23.97
20		1	104	23.95	23.98	23.91
20		50	1	23.41	23.52	23.44
20		50	25	23.45	23.49	23.45
20		50	50	23.47	23.49	23.52
20		100	0	23.44	23.54	23.50
20	DFT-s-OFDM 16QAM	1	1	23.48	23.44	23.54
20	DFT-s-OFDM 64QAM	1	1	22.25	22.25	21.97
20	DFT-s-OFDM 256QAM	1	1	19.56	19.52	19.63
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.94	24.01	23.87
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.85	23.90	23.82
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	23.86	23.96	23.94
Channel				166800	167300	167800



Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	22.85	23.05	23.03
20	CP-OFDM 16QAM	1	1	22.45	22.56	22.52
20	CP-OFDM 64QAM	1	1	21.38	21.44	21.40
20	CP-OFDM 256QAM	1	1	17.55	17.56	17.65



n12

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	DFT-s-OFDM PI/2 BPSK	1	1	23.96	23.98	23.83
15		1	39	23.88	23.90	23.86
15		1	77	23.83	23.87	23.85
15		36	1	23.43	23.44	23.40
15		36	18	23.41	23.42	23.35
15		36	36	23.35	23.38	23.29
15		75	0	23.34	23.40	23.35
15	DFT-s-OFDM QPSK	1	1	24.00	24.04	24.01
15		1	39	23.97	23.99	23.91
15		1	77	23.95	24.01	23.96
15		36	1	23.39	23.45	23.40
15		36	18	23.38	23.40	23.36
15		36	36	23.24	23.36	23.25
15		75	0	23.39	23.41	23.40
15	DFT-s-OFDM 16QAM	1	1	23.55	23.56	23.52
15	DFT-s-OFDM 64QAM	1	1	22.06	22.05	22.04
15	DFT-s-OFDM 256QAM	1	1	19.71	19.71	19.63
Channel				140800	141500	142200
Frequency (MHz)				704	707.5	711
10	DFT-s-OFDM QPSK	1	1	23.85	23.91	23.82
Channel				140300	141500	142700
Frequency (MHz)				701.5	707.5	713.5
5	DFT-s-OFDM QPSK	1	1	23.90	23.95	23.89
Channel				141300	141500	141700
Frequency (MHz)				706.5	707.5	708.5
15	CP-OFDM QPSK	1	1	22.94	23.02	22.83
15	CP-OFDM	1	1	22.41	22.55	22.52



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	16QAM					
15	CP-OFDM 64QAM	1	1	20.96	21.34	21.28
15	CP-OFDM 256QAM	1	1	17.73	17.71	17.78



n25

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				374000	376500	379000
Frequency (MHz)				1870	1882.5	1895
40	DFT-s-OFDM PI/2 BPSK	1	1	23.99	24.05	24.02
40		1	53	23.91	24.00	24.01
40		1	105	23.95	24.04	23.97
40		50	1	23.15	23.07	23.21
40		50	25	23.11	23.08	23.26
40		50	50	23.04	23.09	23.31
40		100	0	23.13	23.06	23.28
40	DFT-s-OFDM QPSK	1	1	24.06	24.07	24.03
40		1	53	23.69	24.01	24.00
40		1	105	23.98	24.04	24.01
40		50	1	23.15	23.20	23.17
40		50	25	23.12	23.16	23.12
40		50	50	23.07	23.12	23.10
40		100	0	23.11	23.12	23.08
40	DFT-s-OFDM 16QAM	1	1	23.24	23.45	23.25
40	DFT-s-OFDM 64QAM	1	1	21.88	21.93	21.89
40	DFT-s-OFDM 256QAM	1	1	19.46	19.50	19.44
Channel				373000	376500	380000
Frequency (MHz)				1865	1882.5	1900
30	DFT-s-OFDM QPSK	1	1	23.95	24.01	23.73
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM QPSK	1	1	24.01	24.02	24.00
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	23.83	23.97	23.79
Channel				371000	376500	382000



Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	23.92	23.96	23.95
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	23.82	23.85	23.77
Channel				374000	376500	379000
Frequency (MHz)				1870	1882.5	1895
40	CP-OFDM QPSK	1	1	22.58	22.70	22.74
40	CP-OFDM 16QAM	1	1	22.26	22.16	22.27
40	CP-OFDM 64QAM	1	1	20.66	20.92	20.76
40	CP-OFDM 256QAM	1	1	17.45	17.40	17.46



n41(PC2)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	DFT-s-OFDM PI/2 BPSK	1	1	25.52	25.53	25.50
100		1	136	25.48	25.72	25.63
100		1	272	25.45	25.68	25.58
100		135	1	25.09	25.22	25.09
100		135	67	25.20	25.20	25.13
100		135	136	25.28	25.31	25.24
100		270	0	25.22	25.28	25.22
100	DFT-s-OFDM QPSK	1	1	25.75	25.92	25.63
100		1	136	25.56	25.76	25.60
100		1	272	25.68	25.76	25.73
100		135	1	24.98	25.24	25.12
100		135	67	24.97	25.19	25.06
100		135	136	24.83	24.77	24.73
100		270	0	24.73	24.76	24.71
100	DFT-s-OFDM 16QAM	1	1	24.87	25.02	25.10
100	DFT-s-OFDM 64QAM	1	1	23.39	23.66	23.60
100	DFT-s-OFDM 256QAM	1	1	21.22	21.33	21.43
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.25	25.60	25.67
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.09	25.59	25.63
Channel				50620	518598	531000
Frequency (MHz)				2531.01	2592.99	2655.00
70	DFT-s-OFDM QPSK	1	1	25.14	25.62	25.49
Channel				505200	518598	531996



Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.17	25.74	25.70
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	25.73	25.76	25.89
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.36	25.82	25.80
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	25.60	25.85	25.78
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	25.62	25.86	25.83
BW [MHz]	Modulation	RB Size	RB Offset			
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	23.99	24.43	24.13
100	CP-OFDM 16QAM	1	1	23.41	23.76	23.65
100	CP-OFDM 64QAM	1	1	22.06	22.46	22.53
100	CP-OFDM 256QAM	1	1	18.73	19.14	19.11



n41(PC3)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	DFT-s-OFDM PI/2 BPSK	1	1	23.12	23.27	23.15
100		1	136	23.08	23.18	23.02
100		1	272	23.17	23.23	23.19
100		135	1	22.18	22.17	22.04
100		135	67	22.29	22.22	22.11
100		135	136	22.12	22.34	22.37
100		270	0	22.34	22.37	22.18
100	DFT-s-OFDM QPSK	1	1	23.17	23.32	23.24
100		1	136	23.20	23.17	23.02
100		1	272	23.13	23.25	23.21
100		135	1	22.10	22.18	22.09
100		135	67	22.04	22.16	22.07
100		135	136	21.98	22.15	22.01
100		270	0	22.06	22.11	22.03
100	DFT-s-OFDM 16QAM	1	1	22.19	22.27	22.18
100	DFT-s-OFDM 64QAM	1	1	22.07	22.09	22.00
100	DFT-s-OFDM 256QAM	1	1	20.08	20.26	19.97
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	23.16	23.24	22.97
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	23.28	23.21	23.00
Channel				50620	518598	531000
Frequency (MHz)				2531.01	2592.99	2655.00
70	DFT-s-OFDM QPSK	1	1	23.18	23.22	23.01
Channel				505200	518598	531996



Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	23.19	23.17	23.03
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	23.25	23.31	23.14
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	23.21	23.29	23.11
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	23.20	23.29	23.26
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	23.29	23.28	23.02
BW [MHz]	Modulation	RB Size	RB Offset			
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	22.23	21.93	21.92
100	CP-OFDM 16QAM	1	1	22.34	22.03	21.64
100	CP-OFDM 64QAM	1	1	21.55	21.70	21.30
100	CP-OFDM 256QAM	1	1	18.15	18.26	17.87



n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	24.11	24.18	24.01
40		1	53	24.10	24.15	24.14
40		1	104	24.07	24.10	24.05
40		53	1	23.16	23.41	23.35
40		53	26	23.35	23.46	23.28
40		53	52	23.34	23.48	23.29
40		106	0	23.33	23.41	23.35
40	DFT-s-OFDM QPSK	1	1	24.21	24.27	24.24
40		1	53	24.19	24.22	24.21
40		1	104	24.21	24.26	24.17
40		53	1	23.34	23.49	23.46
40		53	26	23.43	23.52	23.44
40		53	52	23.45	23.48	23.45
40		106	0	22.97	23.29	23.25
40	DFT-s-OFDM 16QAM	1	1	23.23	23.27	23.29
40	DFT-s-OFDM 64QAM	1	1	21.96	22.00	21.97
40	DFT-s-OFDM 256QAM	1	1	19.43	19.59	19.51
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	24.26	24.15	24.18
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	24.11	24.19	24.05
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	24.03	24.24	23.96
Channel				343000	349000	355000



Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	24.19	24.02	23.97
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.33	23.25	23.47
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	22.76	22.74	22.63
40	CP-OFDM 16QAM	1	1	22.25	22.29	21.99
40	CP-OFDM 64QAM	1	1	20.95	20.88	20.76
40	CP-OFDM 256QAM	1	1	17.47	17.55	17.62



n71

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	24.19	24.25	24.22
20		1	53	24.10	24.11	24.07
20		1	104	24.11	23.93	23.89
20		50	1	23.31	23.54	23.40
20		50	25	23.61	23.43	23.36
20		50	50	23.52	23.32	23.27
20		100	0	23.63	23.47	23.10
20	DFT-s-OFDM QPSK	1	1	24.25	24.28	24.22
20		1	53	24.13	24.24	24.16
20		1	104	23.85	24.06	23.97
20		50	1	23.56	23.60	23.52
20		50	25	23.59	23.47	23.37
20		50	50	23.51	23.58	23.27
20		100	0	23.53	23.55	23.40
20	DFT-s-OFDM 16QAM	1	1	23.92	23.53	23.65
20	DFT-s-OFDM 64QAM	1	1	22.34	22.27	22.18
20	DFT-s-OFDM 256QAM	1	1	19.73	19.77	19.77
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	23.97	24.02	23.94
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	23.89	23.99	23.88
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	23.75	23.88	23.76
Channel				134600	136100	137600



Frequency (MHz)				673	680.5	688
20	CP-OFDM QPSK	1	1	23.34	23.05	23.13
20	CP-OFDM 16QAM	1	1	22.82	22.65	22.62
20	CP-OFDM 64QAM	1	1	21.58	21.57	21.41
20	CP-OFDM 256QAM	1	1	17.84	17.96	17.81



n77 (3450 MHz ~ 3550 MHz) (PC2)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.53	/
100		1	136	/	25.48	/
100		1	271	/	25.41	/
100		135	1	/	24.75	/
100		135	67	/	24.73	/
100		135	136	/	24.68	/
100		270	0	/	24.62	/
100	DFT-s-OFDM QPSK	1	1	/	25.73	/
100		1	136	/	25.66	/
100		1	271	/	25.56	/
100		135	1	/	24.89	/
100		135	67	/	24.85	/
100		135	136	/	24.76	/
100		270	0	/	24.69	/
100	DFT-s-OFDM 16QAM	1	1	/	24.42	/
100	DFT-s-OFDM 64QAM	1	1	/	23.38	/
100	DFT-s-OFDM 256QAM	1	1	/	20.67	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.70	25.66	25.61
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.72	25.69	25.43
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98



70	DFT-s-OFDM PI/2 BPSK	1	1	25.56	25.68	25.61
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.69	25.55	25.63
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.60	25.72	25.58
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.64	25.71	25.49
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.66	25.66	25.58
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.68	25.69	25.50
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.83	/
100	CP-OFDM 16QAM	1	1	/	23.39	/



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100	CP-OFDM 64QAM	1	1	/	22.04	/
100	CP-OFDM 256QAM	1	1	/	18.75	/



n77 (3450 MHz ~ 3550 MHz) (PC3)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.23	/
100		1	136	/	23.29	/
100		1	271	/	23.28	/
100		135	1	/	22.29	/
100		135	67	/	22.18	/
100		135	136	/	22.11	/
100		270	0	/	22.04	/
100	DFT-s-OFDM QPSK	1	1	/	23.38	/
100		1	136	/	23.30	/
100		1	271	/	23.29	/
100		135	1	/	22.22	/
100		135	67	/	22.18	/
100		135	136	/	22.10	/
100		270	0	/	22.19	/
100	DFT-s-OFDM 16QAM	1	1	/	22.22	/
100	DFT-s-OFDM 64QAM	1	1	/	22.23	/
100	DFT-s-OFDM 256QAM	1	1	/	20.38	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.29	23.26
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	23.30	23.35	23.15
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98



70	DFT-s-OFDM PI/2 BPSK	1	1	23.23	23.32	23.13
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	23.17	23.28	23.09
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	23.28	23.35	23.05
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.33	23.26
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.27	23.15
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	23.27	23.30	23.11
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	22.02	/
100	CP-OFDM 16QAM	1	1	/	21.35	/



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100	CP-OFDM 64QAM	1	1	/	19.92	/
100	CP-OFDM 256QAM	1	1	/	18.01	/



n77 (3700 MHz ~ 3980 MHz) (PC2)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.70	25.78	25.75
100		1	136	25.69	25.66	25.60
100		1	271	25.65	25.69	25.55
100		135	1	24.63	24.69	24.62
100		135	67	24.55	24.67	24.62
100		135	136	24.52	24.41	24.36
100		270	0	24.62	24.47	24.44
100	DFT-s-OFDM QPSK	1	1	25.79	25.88	25.80
100		1	136	25.76	25.82	25.61
100		1	271	25.74	25.80	25.56
100		135	1	24.65	24.79	24.68
100		135	67	24.64	24.72	24.61
100		135	136	24.43	24.51	24.49
100		270	0	24.46	24.57	24.51
100	DFT-s-OFDM 16QAM	1	1	23.80	24.05	24.08
100	DFT-s-OFDM 64QAM	1	1	22.48	22.63	22.58
100	DFT-s-OFDM 256QAM	1	1	20.28	20.32	20.25
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.55	25.69	25.63
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	25.65	25.72	25.63
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945



70	DFT-s-OFDM PI/2 BPSK	1	1	25.63	25.78	25.63
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.55	25.77	25.72
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.49	25.80	25.73
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.63	25.82	25.80
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.64	25.80	25.75
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	25.77	25.81	25.79
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.47	23.82	23.52
100	CP-OFDM 16QAM	1	1	23.20	23.29	23.30



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100	CP-OFDM 64QAM	1	1	21.42	21.42	21.60
100	CP-OFDM 256QAM	1	1	17.90	18.03	18.25



n77 (3700 MHz ~ 3980 MHz) (PC3)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	23.22	23.26	23.22
100		1	136	23.18	23.18	23.25
100		1	271	23.16	23.17	23.02
100		135	1	22.33	22.46	22.43
100		135	67	22.43	22.51	22.48
100		135	136	22.31	22.37	22.44
100		270	0	22.45	22.36	22.49
100	DFT-s-OFDM QPSK	1	1	23.29	23.31	23.22
100		1	136	23.05	23.20	23.15
100		1	271	23.18	23.06	23.01
100		135	1	22.32	22.42	22.38
100		135	67	22.41	22.49	22.45
100		135	136	22.43	22.33	22.42
100		270	0	22.38	22.47	22.42
100	DFT-s-OFDM 16QAM	1	1	22.40	22.37	22.41
100	DFT-s-OFDM 64QAM	1	1	21.34	21.38	21.46
100	DFT-s-OFDM 256QAM	1	1	20.46	20.38	20.45
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	23.22	23.21	23.19
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	23.26	23.18	23.21
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945



70	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.22	23.14
Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	23.25	23.26	23.24
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	23.26	23.23	23.23
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	23.18	23.16	23.18
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.25	23.23
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.15	23.15
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	21.71	21.77	21.67
100	CP-OFDM 16QAM	1	1	21.74	21.71	21.68



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100	CP-OFDM 64QAM	1	1	20.84	20.75	20.99
100	CP-OFDM 256QAM	1	1	18.45	18.52	18.42



n78 (3450 MHz ~ 3550 MHz) (PC2)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.56	/
100		1	136	/	25.44	/
100		1	271	/	25.47	/
100		135	1	/	24.74	/
100		135	67	/	24.63	/
100		135	136	/	24.58	/
100		270	0	/	24.50	/
100	DFT-s-OFDM QPSK	1	1	/	25.77	/
100		1	136	/	25.74	/
100		1	271	/	25.73	/
100		135	1	/	24.80	/
100		135	67	/	24.79	/
100		135	136	/	24.72	/
100		270	0	/	24.68	/
100	DFT-s-OFDM 16QAM	1	1	/	24.75	/
100	DFT-s-OFDM 64QAM	1	1	/	23.92	/
100	DFT-s-OFDM 256QAM	1	1	/	20.50	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.70	25.58	25.64
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.63	25.75	25.75
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98



70	DFT-s-OFDM PI/2 BPSK	1	1	25.62	25.68	25.68
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.67	25.59	25.65
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.69	25.63	25.71
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.71	25.75	25.64
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.51	25.66	25.58
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.66	25.60	25.45
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.90	/
100	CP-OFDM 16QAM	1	1	/	23.74	/



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100	CP-OFDM 64QAM	1	1	/	22.02	/
100	CP-OFDM 256QAM	1	1	/	18.59	/



n78 (3450 MHz ~ 3550 MHz) (PC3)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.16	/
100		1	136	/	23.12	/
100		1	271	/	23.09	/
100		135	1	/	22.22	/
100		135	67	/	22.16	/
100		135	136	/	22.08	/
100		270	0	/	22.05	/
100	DFT-s-OFDM QPSK	1	1	/	23.34	/
100		1	136	/	23.25	/
100		1	271	/	23.13	/
100		135	1	/	22.29	/
100		135	67	/	22.14	/
100		135	136	/	22.18	/
100		270	0	/	22.23	/
100	DFT-s-OFDM 16QAM	1	1	/	22.32	/
100	DFT-s-OFDM 64QAM	1	1	/	22.90	/
100	DFT-s-OFDM 256QAM	1	1	/	20.52	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	23.11	23.08	23.12
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	23.17	23.12	23.02
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98



70	DFT-s-OFDM PI/2 BPSK	1	1	23.10	23.10	22.98
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	23.17	23.15	23.00
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	23.14	23.09	22.92
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	23.24	23.23	23.17
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	23.17	23.22	23.02
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	23.30	23.25	22.95
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	21.74	/
100	CP-OFDM 16QAM	1	1	/	21.68	/



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100	CP-OFDM 64QAM	1	1	/	20.91	/
100	CP-OFDM 256QAM	1	1	/	17.90	/



n78 (3700 MHz ~ 3800 MHz) (PC2)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.60	/
100		1	136	/	25.56	/
100		1	271	/	25.54	/
100		135	1	/	24.58	/
100		135	67	/	24.50	/
100		135	136	/	24.55	/
100		270	0	/	24.51	/
100	DFT-s-OFDM QPSK	1	1	/	25.68	/
100		1	136	/	25.61	/
100		1	271	/	25.55	/
100		135	1	/	24.81	/
100		135	67	/	24.75	/
100		135	136	/	24.69	/
100		270	0	/	24.55	/
100	DFT-s-OFDM 16QAM	1	1	/	24.84	/
100	DFT-s-OFDM 64QAM	1	1	/	22.66	/
100	DFT-s-OFDM 256QAM	1	1	/	20.41	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	25.43	25.52	25.50
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.47	25.57	25.59
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765

70	DFT-s-OFDM QPSK	1	1	25.47	25.64	25.61
Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	25.61	25.51	25.60
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.59	25.64	25.51
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.58	25.53	25.42
Channel				647668	650000	652332
Frequency (MHz)				3715.02	3750	3784.98
30	DFT-s-OFDM QPSK	1	1	25.55	25.51	25.48
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.56	25.47	25.58
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.57	/
100	CP-OFDM 16QAM	1	1	/	23.32	/



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100	CP-OFDM 64QAM	1	1	/	21.52	/
100	CP-OFDM 256QAM	1	1	/	18.20	/



n78 (3700 MHz ~ 3800 MHz) (PC3)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	23.19	/
100		1	136	/	23.12	/
100		1	271	/	23.08	/
100		135	1	/	22.23	/
100		135	67	/	22.19	/
100		135	136	/	22.22	/
100		270	0	/	22.12	/
100	DFT-s-OFDM QPSK	1	1	/	23.25	/
100		1	136	/	23.16	/
100		1	271	/	23.11	/
100		135	1	/	22.24	/
100		135	67	/	22.22	/
100		135	136	/	22.23	/
100		270	0	/	22.07	/
100	DFT-s-OFDM 16QAM	1	1	/	22.16	/
100	DFT-s-OFDM 64QAM	1	1	/	22.10	/
100	DFT-s-OFDM 256QAM	1	1	/	20.12	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	23.16	23.13	23.12
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	22.85	23.05	23.14
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765



70	DFT-s-OFDM QPSK	1	1	23.08	23.10	23.11
Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	23.14	23.18	23.20
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	23.20	23.17	23.13
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	23.01	23.20	23.12
Channel				647668	650000	652332
Frequency (MHz)				3715.02	3750	3784.98
30	DFT-s-OFDM QPSK	1	1	23.00	23.05	23.04
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	23.13	23.18	23.16
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	22.07	/
100	CP-OFDM 16QA M	1	1	/	22.04	/



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100	CP-OFDM 64QAM	1	1	/	21.27	/
100	CP-OFDM 256QAM	1	1	/	18.15	/



DC_5A_n2

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.78	22.86	22.85
20		1	53	22.68	22.64	22.54
20		1	104	22.47	22.46	22.31
20		50	1	22.79	22.63	22.50
20		50	25	22.69	22.69	22.46
20		50	50	22.63	22.48	22.29
20		100	0	22.84	22.63	22.43
20		DFT-s-OFDM QPSK	1	1	23.02	23.05
20	1		53	22.80	22.48	22.79
20	1		104	22.63	22.63	22.60
20	50		1	22.85	22.88	22.66
20	50		25	22.77	22.80	22.64
20	50		50	22.68	22.78	22.56
20	100		0	22.62	22.79	22.75
20	DFT-s-OFDM 16QAM	1	1	22.48	22.71	22.51
20	DFT-s-OFDM 64QAM	1	1	20.75	20.60	20.70
20	DFT-s-OFDM 256QAM	1	1	18.82	18.88	18.70
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.80	22.88	22.69
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.86	22.87	22.90
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.77	22.52	22.86



Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	21.74	21.71	21.78
20	CP-OFDM 16QAM	1	1	21.52	21.44	21.36
20	CP-OFDM 64QAM	1	1	19.69	19.48	19.54
20	CP-OFDM 256QAM	1	1	16.75	16.62	16.66



DC_12A_n2

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.76	22.84	22.83
20		1	53	22.66	22.62	22.52
20		1	104	22.45	22.44	22.29
20		50	1	22.77	22.61	22.48
20		50	25	22.67	22.67	22.44
20		50	50	22.61	22.46	22.27
20		100	0	22.82	22.61	22.41
20		DFT-s-OFDM QPSK	1	1	22.99	23.03
20	1		53	22.78	22.46	22.77
20	1		104	22.61	22.61	22.58
20	50		1	22.83	22.86	22.64
20	50		25	22.75	22.78	22.62
20	50		50	22.66	22.76	22.54
20	100		0	22.60	22.77	22.73
20	DFT-s-OFDM 16QAM	1	1	22.46	22.69	22.49
20	DFT-s-OFDM 64QAM	1	1	20.73	20.58	20.68
20	DFT-s-OFDM 256QAM	1	1	18.80	18.86	18.68
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.73	22.90	22.77
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.77	22.88	22.73
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.73	23.87	22.77



Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	21.72	21.69	21.76
20	CP-OFDM 16QAM	1	1	21.50	21.42	21.34
20	CP-OFDM 64QAM	1	1	19.67	19.46	19.52
20	CP-OFDM 256QAM	1	1	16.73	16.60	16.64



DC_13A_n2

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.71	22.73	22.61
20		1	53	22.66	22.73	22.57
20		1	104	22.42	22.38	22.28
20		50	1	22.88	22.67	22.50
20		50	25	22.73	22.77	22.46
20		50	50	22.64	22.60	22.27
20		100	0	22.85	22.54	22.47
20		DFT-s-OFDM QPSK	1	1	22.94	23.00
20	1		53	22.71	22.43	22.62
20	1		104	22.56	22.56	22.53
20	50		1	22.68	22.72	22.61
20	50		25	22.65	22.64	22.49
20	50		50	22.63	22.65	22.38
20	100		0	22.47	22.72	22.63
20	DFT-s-OFDM 16QAM	1	1	22.41	22.71	22.52
20	DFT-s-OFDM 64QAM	1	1	20.69	20.50	20.56
20	DFT-s-OFDM 256QAM	1	1	18.80	18.87	18.68
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.92	22.98	22.92
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.93	22.97	23.00
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.84	22.91	22.63



Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	21.60	21.61	21.56
20	CP-OFDM 16QAM	1	1	21.43	21.46	21.38
20	CP-OFDM 64QAM	1	1	19.76	19.45	19.53
20	CP-OFDM 256QAM	1	1	16.78	16.62	16.54



DC_66A_n2

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	DFT-s-OFDM PI/2 BPSK	1	1	22.82	22.86	22.63
20		1	53	22.74	22.79	22.68
20		1	104	22.46	22.60	22.46
20		50	1	22.76	22.76	22.77
20		50	25	22.74	22.59	22.62
20		50	50	22.60	22.68	22.65
20		100	0	22.79	22.81	22.68
20		DFT-s-OFDM QPSK	1	1	23.07	23.19
20	1		53	22.75	22.65	22.69
20	1		104	22.75	22.51	22.52
20	50		1	22.76	22.83	22.82
20	50		25	22.78	22.77	22.78
20	50		50	22.77	22.68	22.58
20	100		0	22.74	22.92	22.69
20	DFT-s-OFDM 16QAM	1	1	22.28	22.53	22.41
20	DFT-s-OFDM 64QAM	1	1	20.72	20.67	20.58
20	DFT-s-OFDM 256QAM	1	1	18.32	18.46	18.22
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.91	23.03	23.05
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.92	22.93	23.03
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	22.89	23.06	22.95



Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	21.70	21.73	21.74
20	CP-OFDM 16QAM	1	1	21.22	21.43	21.18
20	CP-OFDM 64QAM	1	1	19.69	19.76	19.79
20	CP-OFDM 256QAM	1	1	16.97	17.08	16.93



DC_2A_n5

BW [MHz]	Modulation	RB Size	RB Offset	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	22.83	22.96	22.69
20		1	53	22.74	22.73	22.64
20		1	104	22.57	22.62	22.49
20		50	1	22.71	22.72	22.74
20		50	25	22.73	22.70	22.66
20		50	50	22.67	22.78	22.57
20		100	0	22.74	22.71	22.70
20		DFT-s-OFDM QPSK	1	1	23.12	23.14
20	1		53	22.75	22.64	22.73
20	1		104	22.65	22.55	22.48
20	50		1	22.84	22.87	22.74
20	50		25	22.70	22.69	22.76
20	50		50	22.72	22.69	22.60
20	100		0	22.81	22.95	22.75
20	DFT-s-OFDM 16QAM	1	1	22.55	22.68	22.56
20	DFT-s-OFDM 64QAM	1	1	20.68	20.68	20.54
20	DFT-s-OFDM 256QAM	1	1	18.41	18.48	18.22
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.03	23.06	23.07
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.12	23.13	23.09
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	23.15	23.17	23.00



Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	21.49	21.46	21.54
20	CP-OFDM 16QAM	1	1	21.14	21.14	21.10
20	CP-OFDM 64QAM	1	1	19.53	19.64	19.52
20	CP-OFDM 256QAM	1	1	16.78	16.90	16.81



DC_7A_n5

BW [MHz]	Modulation	RB Size	RB Offset	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	23.10	22.75	22.95
20		1	53	22.96	22.96	22.93
20		1	104	22.83	22.49	22.70
20		50	1	23.01	23.04	23.00
20		50	25	22.98	22.96	22.84
20		50	50	22.89	22.95	22.83
20		100	0	22.96	23.01	22.89
20		DFT-s-OFDM QPSK	1	1	23.26	23.32
20	1		53	22.99	22.99	22.99
20	1		104	22.87	22.77	22.82
20	50		1	23.02	23.06	23.05
20	50		25	22.92	23.00	23.01
20	50		50	22.96	22.94	22.84
20		100	0	22.94	23.06	23.01
20	DFT-s-OFDM 16QAM	1	1	22.93	23.04	22.94
20	DFT-s-OFDM 64QAM	1	1	20.91	20.96	20.83
20	DFT-s-OFDM 256QAM	1	1	18.59	18.61	18.47
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.98	22.90	22.87
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.15	23.05	22.95
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	23.22	23.26	22.97



Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	21.81	21.80	21.88
20	CP-OFDM 16QAM	1	1	21.34	21.46	21.31
20	CP-OFDM 64QAM	1	1	19.84	19.87	19.82
20	CP-OFDM 256QAM	1	1	17.05	17.11	17.05



DC_48A_n5

BW [MHz]	Modulation	RB Size	RB Offset	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	22.89	22.83
20		1	53	22.78	22.85	22.77
20		1	104	22.85	22.79	22.80
20		50	1	22.78	22.82	22.83
20		50	25	22.75	22.73	22.59
20		50	50	22.44	22.68	22.50
20		100	0	22.66	22.71	22.52
20		DFT-s-OFDM QPSK	1	1	23.14	23.25
20	1		53	23.02	22.68	23.05
20	1		104	22.93	23.14	23.07
20	50		1	22.82	23.05	22.90
20	50		25	22.89	22.90	22.87
20	50		50	22.81	22.86	22.56
20	100		0	22.75	22.85	22.85
20	DFT-s-OFDM 16QAM	1	1	22.33	22.25	22.25
20	DFT-s-OFDM 64QAM	1	1	21.02	20.68	21.03
20	DFT-s-OFDM 256QAM	1	1	18.68	18.84	18.76
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	22.93	22.95	22.93
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	22.97	22.99	22.84
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.86	22.88	22.87



Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	21.86	21.89	21.85
20	CP-OFDM 16QAM	1	1	21.41	21.45	21.36
20	CP-OFDM 64QAM	1	1	19.88	19.92	19.88
20	CP-OFDM 256QAM	1	1	16.59	16.58	16.52



DC_66A_n5

BW [MHz]	Modulation	RB Size	RB Offset	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	23.02	23.03	22.91
20		1	53	22.91	22.96	22.85
20		1	104	22.93	22.89	22.83
20		50	1	22.89	22.97	22.96
20		50	25	22.89	22.61	22.81
20		50	50	22.62	22.87	22.64
20		100	0	22.80	22.83	22.72
20		DFT-s-OFDM QPSK	1	1	23.25	23.33
20	1		53	23.11	22.81	23.08
20	1		104	23.03	23.16	23.09
20	50		1	22.90	23.11	23.02
20	50		25	22.89	22.95	22.99
20	50		50	22.84	22.96	22.70
20	100		0	22.87	22.94	22.93
20	DFT-s-OFDM 16QAM	1	1	22.43	22.31	22.26
20	DFT-s-OFDM 64QAM	1	1	21.15	20.79	21.09
20	DFT-s-OFDM 256QAM	1	1	18.73	18.90	18.81
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.11	23.14	22.97
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.06	23.08	22.92
Channel				165300	167300	169300
Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	22.99	23.03	22.94



Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	21.90	22.01	22.00
20	CP-OFDM 16QAM	1	1	21.41	21.50	21.37
20	CP-OFDM 64QAM	1	1	19.91	19.94	19.87
20	CP-OFDM 256QAM	1	1	16.62	16.68	16.59



DC_66A_n25

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				374000	376500	379000
Frequency (MHz)				1870	1882.5	1895
40	DFT-s-OFDM PI/2 BPSK	1	1	22.78	22.71	22.79
40		1	53	22.81	22.80	22.84
40		1	105	22.82	22.76	22.78
40		50	1	22.82	22.82	22.86
40		50	25	22.82	22.84	22.88
40		50	50	22.86	22.81	22.85
40		100	0	22.84	22.85	22.87
40		DFT-s-OFDM QPSK	1	1	22.87	22.94
40	1		53	22.80	22.90	22.77
40	1		105	22.83	22.82	22.84
40	50		1	22.83	22.85	22.85
40	50		25	22.83	22.89	22.87
40	50		50	22.87	22.79	22.81
40	100		0	22.85	22.83	22.80
40	DFT-s-OFDM 16QAM	1	1	22.06	22.02	22.21
40	DFT-s-OFDM 64QAM	1	1	20.87	20.90	20.90
40	DFT-s-OFDM 256QAM	1	1	18.82	18.93	19.01
Channel				373000	376500	380000
Frequency (MHz)				1865	1882.5	1900
30	DFT-s-OFDM QPSK	1	1	22.80	22.78	22.74
Channel				372000	376500	381000
Frequency (MHz)				1860	1882.5	1905
20	DFT-s-OFDM QPSK	1	1	22.77	22.84	22.69
Channel				371500	376500	381500
Frequency (MHz)				1857.5	1882.5	1907.5
15	DFT-s-OFDM QPSK	1	1	22.76	22.8	22.79



Channel				371000	376500	382000
Frequency (MHz)				1855	1882.5	1910
10	DFT-s-OFDM QPSK	1	1	22.86	22.89	22.79
Channel				370500	376500	382500
Frequency (MHz)				1852.5	1882.5	1912.5
5	DFT-s-OFDM QPSK	1	1	22.85	22.88	22.7
Channel				374000	376500	379000
Frequency (MHz)				1870	1882.5	1895
40	CP-OFDM QPSK	1	1	22.05	21.59	22.02
40	CP-OFDM 16QAM	1	1	21.02	21.00	21.11
40	CP-OFDM 64QAM	1	1	19.91	19.80	19.88
40	CP-OFDM 256QAM	1	1	16.53	16.50	16.61



DC_2A_n41

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202.00	518598.00	528000.00
Frequency (MHz)				2546.01	2592.99	2640.00
100	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.37	25.28
100		1	136	25.13	25.03	25.03
100		1	272	24.26	24.81	24.69
100		135	1	24.84	24.76	24.69
100		135	67	24.92	24.86	24.80
100		135	136	25.04	25.09	25.02
100		270	0	24.98	24.90	24.79
100	DFT-s-OFDM QPSK	1	1	25.44	25.55	25.49
100		1	136	25.28	25.45	25.42
100		1	272	25.33	25.15	25.39
100		135	1	24.55	24.70	24.43
100		135	67	24.77	24.66	24.60
100		135	136	24.34	24.55	24.45
100		270	0	24.20	24.58	24.55
100	DFT-s-OFDM 16QAM	1	1	24.60	24.89	24.64
100	DFT-s-OFDM 64QAM	1	1	23.21	23.57	23.35
100	DFT-s-OFDM 256QAM	1	1	20.80	21.13	20.89
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.46	25.37	25.47
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.37	25.35	25.12
Channel				50620	518598	531000
Frequency (MHz)				2531.01	2592.99	2655.00
70	DFT-s-OFDM QPSK	1	1	25.32	25.47	25.38



Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.30	25.36	25.36
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	25.48	25.13	25.2
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.31	25.34	25.09
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	25.11	25.20	25.27
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	25.07	25.16	25.36
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	24.19	24.50	24.29
100	CP-OFDM 16QAM	1	1	23.64	23.92	23.66
100	CP-OFDM 64QAM	1	1	21.90	22.21	21.98
100	CP-OFDM 256QAM	1	1	18.87	19.18	18.94



DC_25A_n41

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202.00	518598.00	528000.00
Frequency (MHz)				2546.01	2592.99	2640.00
100	DFT-s-OFDM PI/2 BPSK	1	1	24.83	25.35	25.36
100		1	136	24.89	24.76	24.70
100		1	272	23.96	24.58	24.42
100		135	1	25.10	24.98	24.89
100		135	67	25.08	25.08	25.01
100		135	136	25.31	25.35	25.24
100		270	0	25.17	25.12	25.03
100		DFT-s-OFDM QPSK	1	1	25.25	25.45
100	1		136	24.91	24.81	24.70
100	1		272	25.00	24.76	25.03
100	135		1	24.19	24.62	24.51
100	135		67	24.55	24.51	24.42
100	135		136	24.40	24.96	24.84
100	270		0	24.24	24.72	24.62
100	DFT-s-OFDM 16QAM	1	1	24.77	25.00	24.72
100	DFT-s-OFDM 64QAM	1	1	23.40	23.57	23.44
100	DFT-s-OFDM 256QAM	1	1	20.96	21.24	20.96
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.38	25.28	25.25
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.20	25.28	25.23
Channel				50620	518598	531000
Frequency (MHz)				2531.01	2592.99	2655.00
70	DFT-s-OFDM QPSK	1	1	25.38	25.40	25.28



Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	24.97	25.09	25.10
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	25.49	25.12	24.9
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	24.96	25.03	25.13
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	25.17	25.13	25.10
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	25.25	25.25	25.11
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	24.19	24.33	24.28
100	CP-OFDM 16QAM	1	1	23.69	23.90	23.61
100	CP-OFDM 64QAM	1	1	21.96	22.35	21.98
100	CP-OFDM 256QAM	1	1	19.09	19.37	19.14



DC_26A_n41

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202.00	518598.00	528000.00
Frequency (MHz)				2546.01	2592.99	2640.00
100	DFT-s-OFDM PI/2 BPSK	1	1	25.31	25.31	25.26
100		1	136	24.81	24.65	24.62
100		1	272	23.86	24.10	24.23
100		135	1	25.02	24.88	25.37
100		135	67	25.02	24.98	24.88
100		135	136	25.18	25.15	25.15
100		270	0	25.10	25.03	24.93
100		DFT-s-OFDM QPSK	1	1	24.98	25.47
100	1		136	25.00	25.27	25.12
100	1		272	25.08	25.11	25.08
100	135		1	24.53	24.70	24.52
100	135		67	24.54	24.50	24.44
100	135		136	24.15	24.75	24.78
100	270		0	24.67	24.64	24.53
100	DFT-s-OFDM 16QAM	1	1	24.68	24.78	24.64
100	DFT-s-OFDM 64QAM	1	1	23.32	23.49	23.32
100	DFT-s-OFDM 256QAM	1	1	20.87	21.13	20.87
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.27	25.19	25.31
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	24.97	25.20	25.26
Channel				50620	518598	531000
Frequency (MHz)				2531.01	2592.99	2655.00
70	DFT-s-OFDM QPSK	1	1	25.20	24.95	25.23



Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.26	25.11	25.07
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	25.55	25.31	25.23
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	24.95	25.16	25.19
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	25.35	24.98	25.15
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	25.46	25.27	25.04
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	24.20	24.46	24.25
100	CP-OFDM 16QAM	1	1	23.64	23.94	23.69
100	CP-OFDM 64QAM	1	1	21.94	22.27	21.96
100	CP-OFDM 256QAM	1	1	19.42	19.67	19.45



DC_66A_n41

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202.00	518598.00	528000.00
Frequency (MHz)				2546.01	2592.99	2640.00
100	DFT-s-OFDM PI/2 BPSK	1	1	25.32	25.36	25.29
100		1	136	24.84	24.70	24.64
100		1	272	23.89	24.10	24.25
100		135	1	25.05	24.87	24.71
100		135	67	25.04	25.00	24.90
100		135	136	25.24	25.25	25.17
100		270	0	25.10	25.03	24.96
100		DFT-s-OFDM QPSK	1	1	25.18	25.53
100	1		136	25.22	25.48	25.42
100	1		272	25.32	25.30	25.28
100	135		1	24.15	24.52	24.32
100	135		67	25.06	25.02	24.94
100	135		136	24.31	24.86	24.79
100	270		0	24.22	24.63	24.57
100	DFT-s-OFDM 16QAM	1	1	24.66	24.88	24.67
100	DFT-s-OFDM 64QAM	1	1	23.34	23.54	23.37
100	DFT-s-OFDM 256QAM	1	1	20.87	21.10	20.93
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.35	25.38	25.3
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.01	25.29	25.31
Channel				50620	518598	531000
Frequency (MHz)				2531.01	2592.99	2655.00
70	DFT-s-OFDM QPSK	1	1	25.19	25.33	25.10



Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.39	25.12	25.09
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	25.38	25.41	25.21
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.01	25.07	25.14
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	25.45	25.03	25.32
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	24.36	25.31	25.41
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	24.23	24.33	24.35
100	CP-OFDM 16QAM	1	1	23.68	23.89	23.58
100	CP-OFDM 64QAM	1	1	21.93	22.38	22.24
100	CP-OFDM 256QAM	1	1	18.90	19.21	19.34



DC_2A_n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.83	22.87	22.43
40		1	53	22.85	22.69	22.48
40		1	104	22.46	22.52	22.49
40		53	1	22.67	22.58	22.40
40		53	26	22.56	22.45	22.43
40		53	52	22.49	22.46	22.47
40		106	0	22.59	22.50	22.37
40		DFT-s-OFDM QPSK	1	1	22.80	22.91
40	1		53	22.87	22.72	22.66
40	1		104	22.66	22.73	22.52
40	53		1	22.68	22.70	22.60
40	53		26	22.77	22.68	22.51
40	53		52	22.67	22.54	22.36
40	106		0	22.69	22.45	22.55
40	DFT-s-OFDM 16QAM	1	1	22.30	22.21	22.15
40	DFT-s-OFDM 64QAM	1	1	20.76	20.72	20.66
40	DFT-s-OFDM 256QAM	1	1	18.73	18.76	18.80
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.83	22.79	22.72
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.85	22.87	22.85
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.73	22.79	22.77



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.97	22.78	22.82
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.87	22.84	22.73
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	21.68	21.82	21.51
40	CP-OFDM 16QAM	1	1	21.60	21.36	20.36
40	CP-OFDM 64QAM	1	1	20.07	20.04	19.86
40	CP-OFDM 256QAM	1	1	16.85	16.76	16.73



DC_5A_n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.67	22.76	22.26
40		1	53	22.69	22.50	22.32
40		1	104	22.36	22.38	22.33
40		53	1	22.50	22.42	22.27
40		53	26	22.46	22.39	22.31
40		53	52	22.36	22.34	22.29
40		106	0	22.41	22.34	22.31
40		DFT-s-OFDM QPSK	1	1	22.72	22.85
40	1		53	22.68	22.59	22.49
40	1		104	22.53	22.62	22.45
40	53		1	22.51	22.63	22.49
40	53		26	22.58	22.52	22.43
40	53		52	22.60	22.46	22.24
40	106		0	22.55	22.27	22.43
40	DFT-s-OFDM 16QAM	1	1	22.16	22.06	21.98
40	DFT-s-OFDM 64QAM	1	1	20.60	20.53	20.54
40	DFT-s-OFDM 256QAM	1	1	18.67	18.68	18.72
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.68	22.72	22.67
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.70	22.69	22.65
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.69	22.70	22.50



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.71	22.55	22.58
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.70	22.70	22.72
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	21.60	21.65	21.40
40	CP-OFDM 16QAM	1	1	21.42	21.29	20.24
40	CP-OFDM 64QAM	1	1	19.88	19.92	19.75
40	CP-OFDM 256QAM	1	1	16.76	16.69	16.63



DC_7A_n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.88	22.80	22.58
40		1	53	22.92	22.88	22.77
40		1	104	22.72	22.71	22.71
40		53	1	22.60	22.61	22.39
40		53	26	22.54	22.55	22.30
40		53	52	22.55	22.29	22.44
40		106	0	22.61	22.58	22.40
40		DFT-s-OFDM QPSK	1	1	23.10	23.12
40	1		53	22.94	22.76	22.90
40	1		104	23.00	22.95	22.89
40	53		1	22.78	22.79	22.55
40	53		26	22.74	22.74	22.48
40	53		52	22.66	22.34	22.58
40	106		0	22.55	22.61	22.45
40	DFT-s-OFDM 16QAM	1	1	22.69	22.73	22.57
40	DFT-s-OFDM 64QAM	1	1	20.61	20.68	20.49
40	DFT-s-OFDM 256QAM	1	1	18.87	18.86	18.77
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.98	22.74	22.74
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.04	22.49	22.36
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	23.01	22.89	22.87



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.88	22.84	22.80
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.90	22.86	22.80
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	22.00	22.03	22.10
40	CP-OFDM 16QAM	1	1	21.24	21.44	21.40
40	CP-OFDM 64QAM	1	1	19.90	19.86	19.67
40	CP-OFDM 256QAM	1	1	16.62	16.60	16.93



DC_12A_n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.69	22.71	22.09
40		1	53	22.50	22.50	22.39
40		1	104	22.27	22.35	22.39
40		53	1	22.47	22.25	22.21
40		53	26	22.35	22.31	22.29
40		53	52	22.36	22.30	22.30
40		106	0	22.28	22.26	22.28
40		DFT-s-OFDM QPSK	1	1	22.67	22.76
40	1		53	22.60	22.47	22.38
40	1		104	22.37	22.47	22.28
40	53		1	22.56	22.62	22.32
40	53		26	22.64	22.43	22.36
40	53		52	22.54	22.45	22.14
40	106		0	22.56	22.14	22.36
40	DFT-s-OFDM 16QAM	1	1	22.18	22.00	21.83
40	DFT-s-OFDM 64QAM	1	1	20.55	20.58	20.51
40	DFT-s-OFDM 256QAM	1	1	18.69	18.67	18.53
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.67	22.72	22.53
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.63	22.59	22.54
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.60	22.57	22.58



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.54	22.69	22.57
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.57	22.61	22.56
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	21.56	21.72	21.50
40	CP-OFDM 16QAM	1	1	21.39	21.29	20.22
40	CP-OFDM 64QAM	1	1	19.91	19.84	19.76
40	CP-OFDM 256QAM	1	1	16.67	16.71	16.58



DC_13A_n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.63	22.66	22.10
40		1	53	22.62	22.49	22.27
40		1	104	22.23	22.38	22.33
40		53	1	22.46	22.28	22.13
40		53	26	22.38	22.26	22.40
40		53	52	22.38	22.31	22.24
40		106	0	22.32	22.38	22.24
40		DFT-s-OFDM QPSK	1	1	22.66	22.69
40	1		53	22.61	22.55	22.48
40	1		104	22.44	22.56	22.31
40	53		1	22.48	22.57	22.35
40	53		26	22.56	22.36	22.26
40	53		52	22.57	22.48	22.25
40	106		0	22.54	22.19	22.34
40	DFT-s-OFDM 16QAM	1	1	22.09	21.98	21.89
40	DFT-s-OFDM 64QAM	1	1	20.67	20.55	20.45
40	DFT-s-OFDM 256QAM	1	1	18.61	18.73	18.67
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.64	22.54	22.51
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.47	22.63	22.62
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.58	22.69	22.73



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.64	22.54	22.55
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.63	22.54	22.55
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	21.45	21.62	21.34
40	CP-OFDM 16QAM	1	1	21.26	21.11	20.14
40	CP-OFDM 64QAM	1	1	19.74	19.71	19.65
40	CP-OFDM 256QAM	1	1	16.66	16.63	16.60



DC_48A_n66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	DFT-s-OFDM PI/2 BPSK	1	1	22.58	22.56	22.02
40		1	53	22.46	22.34	22.15
40		1	104	22.14	22.32	22.32
40		53	1	22.40	22.18	22.12
40		53	26	22.31	22.20	22.33
40		53	52	22.23	22.29	22.16
40		106	0	22.24	22.25	22.23
40		DFT-s-OFDM QPSK	1	1	22.53	22.60
40	1		53	22.48	22.40	22.44
40	1		104	22.38	22.50	22.24
40	53		1	22.45	22.47	22.20
40	53		26	22.45	22.26	22.23
40	53		52	22.49	22.34	22.21
40	106		0	22.51	22.06	22.25
40	DFT-s-OFDM 16QAM	1	1	22.06	21.92	21.84
40	DFT-s-OFDM 64QAM	1	1	20.59	20.48	20.38
40	DFT-s-OFDM 256QAM	1	1	18.61	18.66	18.60
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.51	22.53	22.49
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.44	22.46	22.50
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.46	22.44	22.43



Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.44	22.46	22.37
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.30	22.02	21.97
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	21.34	21.59	21.20
40	CP-OFDM 16QAM	1	1	21.15	21.07	20.11
40	CP-OFDM 64QAM	1	1	19.63	19.59	19.58
40	CP-OFDM 256QAM	1	1	16.53	16.52	16.58



DC_2A_n71

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.59	22.62	22.57
20		1	53	22.48	22.60	22.45
20		1	104	22.44	22.30	22.29
20		50	1	22.71	22.65	22.54
20		50	25	22.70	22.61	22.46
20		50	50	22.55	22.46	22.30
20		100	0	22.82	22.53	22.49
20		DFT-s-OFDM QPSK	1	1	22.79	22.85
20	1		53	22.64	22.43	22.58
20	1		104	22.53	22.42	22.34
20	50		1	22.65	22.66	22.52
20	50		25	22.61	22.52	22.44
20	50		50	22.55	22.56	22.30
20	100		0	22.32	22.60	22.55
20	DFT-s-OFDM 16QAM	1	1	22.46	22.57	22.51
20	DFT-s-OFDM 64QAM	1	1	20.62	20.51	20.41
20	DFT-s-OFDM 256QAM	1	1	18.78	18.74	18.62
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.74	22.62	22.52
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.80	22.61	22.43
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.79	22.58	22.43



Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	CP-OFDM QPSK	1	1	21.77	21.78	21.75
20	CP-OFDM 16QAM	1	1	21.53	21.46	21.44
20	CP-OFDM 64QAM	1	1	19.76	19.49	19.53
20	CP-OFDM 256QAM	1	1	16.80	16.63	16.66



DC_7A_n71

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.79	22.74	22.76
20		1	53	22.67	22.74	22.60
20		1	104	22.54	22.47	22.38
20		50	1	22.91	22.71	22.60
20		50	25	22.80	22.77	22.58
20		50	50	22.69	22.61	22.40
20		100	0	22.95	22.66	22.54
20		DFT-s-OFDM QPSK	1	1	22.97	23.04
20	1		53	22.72	22.48	22.73
20	1		104	22.63	22.61	22.53
20	50		1	22.77	22.79	22.66
20	50		25	22.68	22.71	22.59
20	50		50	22.71	22.69	22.48
20	100		0	22.62	22.75	22.75
20	DFT-s-OFDM 16QAM	1	1	22.52	22.73	22.62
20	DFT-s-OFDM 64QAM	1	1	20.76	20.60	20.68
20	DFT-s-OFDM 256QAM	1	1	18.92	18.89	18.73
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.88	22.97	22.79
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.89	22.95	22.76
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.88	22.90	22.67



Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	CP-OFDM QPSK	1	1	21.82	21.82	21.81
20	CP-OFDM 16QAM	1	1	21.57	21.47	21.42
20	CP-OFDM 64QAM	1	1	19.78	19.50	19.55
20	CP-OFDM 256QAM	1	1	16.80	16.69	16.66



DC_66A_n71

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	DFT-s-OFDM PI/2 BPSK	1	1	22.60	22.54	22.06
20		1	53	22.60	22.36	22.24
20		1	104	22.13	22.36	22.22
20		50	1	22.38	22.27	22.00
20		50	25	22.36	22.23	22.32
20		50	50	22.37	22.26	22.10
20		100	0	22.24	22.26	22.10
20		DFT-s-OFDM QPSK	1	1	22.76	22.83
20	1		53	22.48	22.46	22.34
20	1		104	22.33	22.49	22.39
20	50		1	22.47	22.55	22.49
20	50		25	22.48	22.24	22.31
20	50		50	22.46	22.44	22.31
20	100		0	22.42	22.10	22.45
20	DFT-s-OFDM 16QAM	1	1	22.01	21.84	21.86
20	DFT-s-OFDM 64QAM	1	1	20.64	20.48	20.43
20	DFT-s-OFDM 256QAM	1	1	18.59	18.68	18.52
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	22.64	22.68	22.49
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	22.62	22.66	22.42
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	22.60	22.62	22.45



Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	CP-OFDM QPSK	1	1	21.45	21.60	21.35
20	CP-OFDM 16QAM	1	1	21.25	21.16	20.19
20	CP-OFDM 64QAM	1	1	19.82	19.77	19.71
20	CP-OFDM 256QAM	1	1	16.67	16.69	16.67



DC_2A_n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.64	/
100		1	136	/	25.58	/
100		1	271	/	25.36	/
100		135	1	/	25.34	/
100		135	67	/	25.62	/
100		135	136	/	25.10	/
100		270	0	/	25.24	/
100	DFT-s-OFDM QPSK	1	1	/	25.68	/
100		1	136	/	25.47	/
100		1	271	/	25.28	/
100		135	1	/	24.68	/
100		135	67	/	24.59	/
100		135	136	/	24.11	/
100		270	0	/	24.13	/
100	DFT-s-OFDM 16QAM	1	1	/	24.73	/
100	DFT-s-OFDM 64QAM	1	1	/	23.36	/
100	DFT-s-OFDM 256QAM	1	1	/	20.65	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.14	25.19	25.27
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.27	25.26	25.28
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.25	25.27	25.40



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.48	25.41	25.39
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.44	25.44	25.31
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.54	25.14
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.65	25.51	25.31
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	24.94	25.14	24.88
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.90	/
100	CP-OFDM 16QAM	1	1	/	23.28	/
100	CP-OFDM 64QAM	1	1	/	22.00	/
100	CP-OFDM 256QAM	1	1	/	18.59	/



DC_5A_n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.57	/
100		1	136	/	25.51	/
100		1	271	/	25.28	/
100		135	1	/	25.23	/
100		135	67	/	25.60	/
100		135	136	/	25.00	/
100		270	0	/	25.07	/
100	DFT-s-OFDM QPSK	1	1	/	25.61	/
100		1	136	/	25.33	/
100		1	271	/	25.27	/
100		135	1	/	24.63	/
100		135	67	/	24.53	/
100		135	136	/	24.04	/
100		270	0	/	23.99	/
100	DFT-s-OFDM 16QAM	1	1	/	24.69	/
100	DFT-s-OFDM 64QAM	1	1	/	23.31	/
100	DFT-s-OFDM 256QAM	1	1	/	20.93	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.20	25.10	25.24
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.31	25.22	25.28
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.22	25.33	25.39



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.09	25.45	25.42
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.41	25.43	25.36
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.30	25.46	25.49
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.39	25.49	25.46
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.00	25.28	24.95
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.85	/
100	CP-OFDM 16QAM	1	1	/	23.31	/
100	CP-OFDM 64QAM	1	1	/	22.00	/
100	CP-OFDM 256QAM	1	1	/	19.80	/



DC_7A_n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.52	/
100		1	136	/	25.49	/
100		1	271	/	25.31	/
100		135	1	/	25.24	/
100		135	67	/	25.55	/
100		135	136	/	24.97	/
100		270	0	/	25.15	/
100		DFT-s-OFDM QPSK	1	1	/	25.61
100	1		136	/	25.35	/
100	1		271	/	25.22	/
100	135		1	/	24.75	/
100	135		67	/	24.52	/
100	135		136	/	24.05	/
100	270		0	/	24.21	/
100	DFT-s-OFDM 16QAM	1	1	/	24.71	/
100	DFT-s-OFDM 64QAM	1	1	/	23.23	/
100	DFT-s-OFDM 256QAM	1	1	/	20.97	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.25	25.12	23.93
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.32	25.28	23.87
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.28	25.29	25.35



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.4	25.45	25.33
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.43	25.43	25.3
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.43	25.36	25.38
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.17	25.4	25.53
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.27	25.41	25.21
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.88	/
100	CP-OFDM 16QAM	1	1	/	23.38	/
100	CP-OFDM 64QAM	1	1	/	21.95	/
100	CP-OFDM 256QAM	1	1	/	18.69	/



DC_12A_n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.54	/
100		1	136	/	25.51	/
100		1	271	/	25.27	/
100		135	1	/	24.91	/
100		135	67	/	24.84	/
100		135	136	/	25.01	/
100		270	0	/	25.07	/
100	DFT-s-OFDM QPSK	1	1	/	25.60	/
100		1	136	/	25.44	/
100		1	271	/	25.25	/
100		135	1	/	24.70	/
100		135	67	/	24.61	/
100		135	136	/	24.43	/
100	270	0	/	24.42	/	
100	DFT-s-OFDM 16QAM	1	1	/	24.54	/
100	DFT-s-OFDM 64QAM	1	1	/	23.05	/
100	DFT-s-OFDM 256QAM	1	1	/	20.58	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.23	25.11	25.18
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.29	25.22	25.22
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.22	25.29	25.40



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.44	25.42	25.40
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.38	25.48	25.29
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.49	25.36
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.41	25.41	25.45
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.00	25.26	25.34
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.85	/
100	CP-OFDM 16QAM	1	1	/	23.32	/
100	CP-OFDM 64QAM	1	1	/	21.77	/
100	CP-OFDM 256QAM	1	1	/	18.61	/



DC_13A_n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.57	/
100		1	136	/	25.46	/
100		1	271	/	25.26	/
100		135	1	/	25.22	/
100		135	67	/	25.59	/
100		135	136	/	25.07	/
100		270	0	/	25.13	/
100		DFT-s-OFDM QPSK	1	1	/	25.55
100	1		136	/	25.47	/
100	1		271	/	25.27	/
100	135		1	/	24.69	/
100	135		67	/	24.56	/
100	135		136	/	24.39	/
100	270		0	/	24.56	/
100	DFT-s-OFDM 16QAM	1	1	/	24.54	/
100	DFT-s-OFDM 64QAM	1	1	/	23.43	/
100	DFT-s-OFDM 256QAM	1	1	/	20.97	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.24	25.17	25.17
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.21	25.25	24.78
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.27	25.30	25.37



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.51	25.42	25.36
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.41	25.46	25.25
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.37	25.36	25.30
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.35	25.45	25.26
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.40	25.09	25.32
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.91	/
100	CP-OFDM 16QAM	1	1	/	23.15	/
100	CP-OFDM 64QAM	1	1	/	21.64	/
100	CP-OFDM 256QAM	1	1	/	18.70	/



DC_66A_n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.50	/
100		1	136	/	25.50	/
100		1	271	/	25.20	/
100		135	1	/	25.21	/
100		135	67	/	25.57	/
100		135	136	/	24.97	/
100		270	0	/	25.12	/
100		DFT-s-OFDM QPSK	1	1	/	25.58
100	1		136	/	25.44	/
100	1		271	/	25.27	/
100	135		1	/	24.56	/
100	135		67	/	24.52	/
100	135		136	/	24.42	/
100	270		0	/	24.44	/
100	DFT-s-OFDM 16QAM	1	1	/	24.60	/
100	DFT-s-OFDM 64QAM	1	1	/	23.61	/
100	DFT-s-OFDM 256QAM	1	1	/	20.95	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.19	25.11	25.21
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.25	25.25	25.17
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.27	25.26	25.39



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.44	25.41	25.41
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.36	25.43	25.14
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.42	25.42	25.33
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.35	25.39	25.36
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.25	25.32	25.17
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.95	/
100	CP-OFDM 16QAM	1	1	/	23.32	/
100	CP-OFDM 64QAM	1	1	/	21.99	/
100	CP-OFDM 256QAM	1	1	/	18.61	/



DC_2A_n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.27	23.90
100		1	136	25.34	25.16	25.34
100		1	271	25.42	25.42	25.25
100		135	1	25.04	25.07	25.04
100		135	67	25.41	25.46	25.48
100		135	136	24.95	25.08	24.91
100		270	0	25.10	25.05	24.97
100	DFT-s-OFDM QPSK	1	1	25.34	25.52	25.34
100		1	136	25.30	25.45	25.41
100		1	271	25.38	25.40	25.18
100		135	1	24.74	24.75	24.78
100		135	67	24.57	24.68	24.68
100		135	136	24.43	24.50	24.42
100		270	0	24.47	24.48	24.48
100	DFT-s-OFDM 16QAM	1	1	24.54	24.50	24.63
100	DFT-s-OFDM 64QAM	1	1	23.28	23.10	23.12
100	DFT-s-OFDM 256QAM	1	1	20.81	20.75	20.70
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.06	25.32	25.31
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	25.05	25.02	25.01
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM PI/2 BPSK	1	1	25.01	25.05	24.97



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.21	25.17	25.15
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.24	25.20	25.19
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.08	25.12	25.41
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.04	25.13	25.42
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	24.90	25.43	25.20
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.96	23.79	24.00
100	CP-OFDM 16QAM	1	1	23.51	23.57	23.53
100	CP-OFDM 64QAM	1	1	21.57	21.70	21.81
100	CP-OFDM 256QAM	1	1	19.40	19.31	19.42



DC_5A_n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.42	25.27	25.32
100		1	136	25.29	25.15	25.42
100		1	271	25.42	25.42	25.21
100		135	1	24.64	24.62	24.66
100		135	67	24.98	24.99	25.08
100		135	136	24.59	24.62	24.49
100		270	0	24.99	25.05	25.02
100	DFT-s-OFDM QPSK	1	1	25.30	25.49	25.35
100		1	136	25.21	25.45	25.40
100		1	271	25.37	25.38	25.16
100		135	1	24.58	24.76	24.43
100		135	67	24.57	24.68	24.65
100		135	136	23.93	23.99	23.91
100		270	0	23.93	24.01	24.00
100	DFT-s-OFDM 16QAM	1	1	24.55	24.57	24.61
100	DFT-s-OFDM 64QAM	1	1	23.51	23.48	23.50
100	DFT-s-OFDM 256QAM	1	1	20.68	20.72	20.76
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.05	24.93	25.01
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	25.01	25.03	25.06
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM PI/2 BPSK	1	1	24.97	25.08	24.95



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.22	25.22	25.19
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.20	25.21	25.18
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.29	25.09	25.32
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.36	25.05	25.33
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	25.19	25.34	25.25
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.89	23.77	23.89
100	CP-OFDM 16QAM	1	1	23.54	23.58	23.46
100	CP-OFDM 64QAM	1	1	21.53	21.65	21.68
100	CP-OFDM 256QAM	1	1	19.41	19.35	19.37



DC_7A_n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.45	25.52	25.47
100		1	136	25.36	25.40	25.48
100		1	271	25.48	25.37	25.44
100		135	1	25.38	25.55	25.44
100		135	67	25.44	25.48	25.49
100		135	136	25.37	25.44	25.55
100		270	0	25.38	25.46	25.56
100	DFT-s-OFDM QPSK	1	1	25.58	25.65	25.57
100		1	136	25.36	25.57	25.36
100		1	271	25.60	25.39	25.39
100		135	1	25.34	25.38	25.47
100		135	67	25.32	25.56	25.57
100		135	136	25.37	25.38	25.45
100		270	0	25.36	25.49	25.45
100	DFT-s-OFDM 16QAM	1	1	24.62	24.72	24.86
100	DFT-s-OFDM 64QAM	1	1	23.44	23.59	23.51
100	DFT-s-OFDM 256QAM	1	1	20.41	20.49	20.55
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.52	25.57	25.31
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	25.45	25.45	25.33
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM PI/2 BPSK	1	1	25.52	25.54	25.37



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.50	25.56	25.31
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.52	25.49	25.30
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.43	25.55	25.38
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.47	25.43
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	25.49	25.48	25.35
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	25.03	24.08	24.10
100	CP-OFDM 16QAM	1	1	23.56	23.51	23.44
100	CP-OFDM 64QAM	1	1	21.93	22.00	22.01
100	CP-OFDM 256QAM	1	1	19.59	19.65	19.61



DC_12A_n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.35	25.46	25.41
100		1	136	25.35	25.41	25.46
100		1	271	25.39	25.19	25.29
100		135	1	25.03	25.01	25.13
100		135	67	25.41	25.39	25.17
100		135	136	24.95	25.03	24.96
100		270	0	25.02	25.04	25.00
100	DFT-s-OFDM QPSK	1	1	25.42	25.58	25.43
100		1	136	25.34	25.43	25.40
100		1	271	25.38	25.21	25.27
100		135	1	24.71	24.78	24.73
100		135	67	24.68	24.66	24.64
100		135	136	23.94	24.02	23.91
100		270	0	24.04	24.03	24.04
100	DFT-s-OFDM 16QAM	1	1	24.63	24.68	24.40
100	DFT-s-OFDM 64QAM	1	1	23.22	23.23	23.27
100	DFT-s-OFDM 256QAM	1	1	22.30	20.34	22.36
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.01	25.28	25.08
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	25.04	25.07	24.53
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM PI/2 BPSK	1	1	25.02	24.98	24.93



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.24	25.08	25.11
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.20	25.12	25.12
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.43	25.35
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.35	25.08	25.32
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	25.41	25.36	25.22
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.53	23.51	23.58
100	CP-OFDM 16QAM	1	1	23.16	23.14	23.20
100	CP-OFDM 64QAM	1	1	21.40	21.37	21.45
100	CP-OFDM 256QAM	1	1	18.85	19.08	18.92



DC_13A_n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.37	25.38	25.41
100		1	136	25.33	25.19	25.34
100		1	271	25.44	25.43	25.23
100		135	1	24.98	25.08	25.09
100		135	67	25.45	25.45	25.41
100		135	136	24.97	25.03	24.88
100		270	0	24.97	25.02	25.02
100	DFT-s-OFDM QPSK	1	1	25.37	25.46	25.42
100		1	136	25.35	25.14	25.35
100		1	271	25.31	25.40	25.21
100		135	1	24.51	24.51	24.37
100		135	67	24.43	24.43	24.42
100		135	136	23.99	24.04	23.93
100		270	0	23.99	24.04	24.09
100	DFT-s-OFDM 16QAM	1	1	24.50	24.45	24.54
100	DFT-s-OFDM 64QAM	1	1	23.12	23.27	23.34
100	DFT-s-OFDM 256QAM	1	1	20.61	20.43	20.36
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.12	25.00	25.12
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	25.04	25.04	25.08
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM PI/2 BPSK	1	1	25.01	25.04	25.00



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.22	25.19	25.18
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.20	25.21	25.24
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.67	25.53	25.34
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.38	25.08	25.36
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	24.96	25.36	25.27
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.76	23.82	23.65
100	CP-OFDM 16QAM	1	1	23.33	23.35	23.41
100	CP-OFDM 64QAM	1	1	21.74	21.76	21.73
100	CP-OFDM 256QAM	1	1	20.26	20.23	20.31



DC_66A_n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	DFT-s-OFDM PI/2 BPSK	1	1	25.46	25.48	25.34
100		1	136	25.37	25.37	25.43
100		1	271	25.41	25.43	25.31
100		135	1	25.02	25.06	25.08
100		135	67	25.39	25.50	25.50
100		135	136	25.01	25.06	24.94
100		270	0	24.97	25.08	25.04
100	DFT-s-OFDM QPSK	1	1	25.31	25.52	25.38
100		1	136	25.30	25.46	25.45
100		1	271	25.39	25.37	25.28
100		135	1	24.59	24.66	24.68
100		135	67	24.40	24.51	24.47
100		135	136	23.99	24.11	23.98
100		270	0	23.97	24.11	24.02
100	DFT-s-OFDM 16QAM	1	1	24.42	24.51	24.52
100	DFT-s-OFDM 64QAM	1	1	23.18	23.13	23.10
100	DFT-s-OFDM 256QAM	1	1	20.83	20.76	22.75
Channel				649666	656000	662332
Frequency (MHz)				3744.99	3840	3934.98
90	DFT-s-OFDM PI/2 BPSK	1	1	25.03	24.96	25.04
Channel				649334	656000	662666
Frequency (MHz)				3740.01	3840	3939.99
80	DFT-s-OFDM PI/2 BPSK	1	1	24.60	25.03	25.03
Channel				649000	656000	663000
Frequency (MHz)				3735	3840	3945
70	DFT-s-OFDM PI/2 BPSK	1	1	24.99	25.06	25.17



Channel				648668	656000	663332
Frequency (MHz)				3730.02	3840	3949.98
60	DFT-s-OFDM PI/2 BPSK	1	1	25.24	25.19	25.07
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM PI/2 BPSK	1	1	25.19	25.24	25.09
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM PI/2 BPSK	1	1	25.54	25.09	24.98
Channel				647668	656000	664332
Frequency (MHz)				3715.02	3840	3964.98
30	DFT-s-OFDM PI/2 BPSK	1	1	25.38	25.14	25.22
Channel				647334	656000	664666
Frequency (MHz)				3710.01	3840	3969.99
20	DFT-s-OFDM PI/2 BPSK	1	1	24.92	25.47	25.25
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.59	23.62	23.61
100	CP-OFDM 16QAM	1	1	23.22	23.10	23.12
100	CP-OFDM 64QAM	1	1	21.74	21.76	21.77
100	CP-OFDM 256QAM	1	1	19.28	19.38	19.36



DC_2A_n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.06	/
100		1	136	/	25.40	/
100		1	271	/	25.27	/
100		135	1	/	25.18	/
100		135	67	/	25.40	/
100		135	136	/	24.98	/
100		270	0	/	25.08	/
100	DFT-s-OFDM QPSK	1	1	/	25.46	/
100		1	136	/	25.41	/
100		1	271	/	25.26	/
100		135	1	/	24.42	/
100		135	67	/	24.33	/
100		135	136	/	24.02	/
100		270	0	/	23.98	/
100	DFT-s-OFDM 16QAM	1	1	/	24.58	/
100	DFT-s-OFDM 64QAM	1	1	/	23.52	/
100	DFT-s-OFDM 256QAM	1	1	/	20.69	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.15	25.02	25.11
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.14	25.24	25.27
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.13	25.27	25.24



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.27	25.37	25.30
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.20	25.37	25.15
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.56	25.50	25.46
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.60	25.49
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.03	25.00	25.29
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.64	/
100	CP-OFDM 16QAM	1	1	/	23.10	/
100	CP-OFDM 64QAM	1	1	/	21.78	/
100	CP-OFDM 256QAM	1	1	/	18.50	/



DC_5A_n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.40	/
100		1	136	/	25.45	/
100		1	271	/	25.18	/
100		135	1	/	25.14	/
100		135	67	/	25.46	/
100		135	136	/	24.96	/
100		270	0	/	25.01	/
100	DFT-s-OFDM QPSK	1	1	/	25.47	/
100		1	136	/	25.40	/
100		1	271	/	25.12	/
100		135	1	/	24.59	/
100		135	67	/	24.53	/
100		135	136	/	23.99	/
100		270	0	/	24.05	/
100	DFT-s-OFDM 16QAM	1	1	/	24.53	/
100	DFT-s-OFDM 64QAM	1	1	/	23.46	/
100	DFT-s-OFDM 256QAM	1	1	/	20.55	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.07	25.08	25.10
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.12	25.19	25.16
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.13	25.32	25.27



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.32	25.28	25.34
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.19	25.27	25.13
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.38	25.34	25.28
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.23	25.37	25.29
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.22	25.15	25.21
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.65	/
100	CP-OFDM 16QAM	1	1	/	23.27	/
100	CP-OFDM 64QAM	1	1	/	21.76	/
100	CP-OFDM 256QAM	1	1	/	19.46	/



DC_7A_n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.36	/
100		1	136	/	25.37	/
100		1	271	/	25.10	/
100		135	1	/	24.94	/
100		135	67	/	25.33	/
100		135	136	/	24.73	/
100		270	0	/	24.96	/
100	DFT-s-OFDM QPSK	1	1	/	25.46	/
100		1	136	/	25.35	/
100		1	271	/	25.07	/
100		135	1	/	24.52	/
100		135	67	/	24.46	/
100		135	136	/	24.06	/
100		270	0	/	24.10	/
100	DFT-s-OFDM 16QAM	1	1	/	24.52	/
100	DFT-s-OFDM 64QAM	1	1	/	23.56	/
100	DFT-s-OFDM 256QAM	1	1	/	20.67	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.07	25.04	25.12
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.17	25.22	25.22
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.16	25.18	25.31
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.27	25.28	25.35
Channel				631668	633334	635000



Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.21	25.25	25.22
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.17	25.12	25.01
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.14	25.25	25.14
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.15	25.31	25.33
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.94	/
100	CP-OFDM 16QAM	1	1	/	23.44	/
100	CP-OFDM 64QAM	1	1	/	21.83	/
100	CP-OFDM 256QAM	1	1	/	19.60	/



DC_12A_n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.45	/
100		1	136	/	25.44	/
100		1	271	/	25.24	/
100		135	1	/	25.06	/
100		135	67	/	25.50	/
100		135	136	/	24.90	/
100		270	0	/	25.07	/
100	DFT-s-OFDM QPSK	1	1	/	25.51	/
100		1	136	/	25.48	/
100		1	271	/	25.14	/
100		135	1	/	24.50	/
100		135	67	/	24.46	/
100		135	136	/	24.16	/
100		270	0	/	24.23	/
100	DFT-s-OFDM 16QAM	1	1	/	24.67	/
100	DFT-s-OFDM 64QAM	1	1	/	23.44	/
100	DFT-s-OFDM 256QAM	1	1	/	20.78	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.07	25.03	25.16
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.13	25.09	25.05
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.15	25.13	25.28



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.29	25.30	25.32
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.18	25.29	25.16
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.17	25.11	25.12
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.22	25.20	25.10
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.24	25.07	25.29
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.67	/
100	CP-OFDM 16QAM	1	1	/	23.16	/
100	CP-OFDM 64QAM	1	1	/	21.54	/
100	CP-OFDM 256QAM	1	1	/	19.59	/



DC_66A_n78 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.40	/
100		1	136	/	25.45	/
100		1	271	/	25.30	/
100		135	1	/	25.17	/
100		135	67	/	25.50	/
100		135	136	/	24.99	/
100		270	0	/	25.05	/
100	DFT-s-OFDM QPSK	1	1	/	25.53	/
100		1	136	/	25.47	/
100		1	271	/	25.21	/
100		135	1	/	24.55	/
100		135	67	/	24.53	/
100		135	136	/	23.97	/
100		270	0	/	24.06	/
100	DFT-s-OFDM 16QAM	1	1	/	24.40	/
100	DFT-s-OFDM 64QAM	1	1	/	23.50	/
100	DFT-s-OFDM 256QAM	1	1	/	20.83	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM PI/2 BPSK	1	1	25.20	25.07	25.10
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM PI/2 BPSK	1	1	25.12	25.23	25.23
Channel				632334	633334	634332
Frequency (MHz)				3485.01	3500.01	3514.98
70	DFT-s-OFDM PI/2 BPSK	1	1	25.08	25.29	25.27



Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM PI/2 BPSK	1	1	25.26	25.30	25.29
Channel				631668	633334	635000
Frequency (MHz)				3475.02	3500.01	3525
50	DFT-s-OFDM PI/2 BPSK	1	1	25.19	25.27	25.11
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM PI/2 BPSK	1	1	25.30	25.29	25.17
Channel				631000	633334	635666
Frequency (MHz)				3465	3500.01	3534.99
30	DFT-s-OFDM PI/2 BPSK	1	1	25.23	25.35	25.27
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM PI/2 BPSK	1	1	25.32	25.05	25.06
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.66	/
100	CP-OFDM 16QAM	1	1	/	23.21	/
100	CP-OFDM 64QAM	1	1	/	21.88	/
100	CP-OFDM 256QAM	1	1	/	19.61	/



DC_2A_n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.40	/
100		1	136	/	25.36	/
100		1	271	/	25.40	/
100		135	1	/	24.96	/
100		135	67	/	25.40	/
100		135	136	/	24.97	/
100		270	0	/	24.98	/
100	DFT-s-OFDM QPSK	1	1	/	25.41	/
100		1	136	/	25.35	/
100		1	271	/	25.39	/
100		135	1	/	24.45	/
100		135	67	/	24.35	/
100		135	136	/	23.94	/
100		270	0	/	23.97	/
100	DFT-s-OFDM 16QAM	1	1	/	24.52	/
100	DFT-s-OFDM 64QAM	1	1	/	23.43	/
100	DFT-s-OFDM 256QAM	1	1	/	20.85	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	24.95	25.00	25.27
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.12	25.00	25.02
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	25.03	25.06	25.08



Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	25.24	25.08	25.13
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.17	25.15	25.23
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.06	25.29	25.30
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.23	25.32	25.40
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.68	/
100	CP-OFDM 16QAM	1	1	/	23.25	/
100	CP-OFDM 64QAM	1	1	/	21.81	/
100	CP-OFDM 256QAM	1	1	/	18.52	/



DC_5A_n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.36	/
100		1	136	/	25.33	/
100		1	271	/	25.37	/
100		135	1	/	24.95	/
100		135	67	/	25.37	/
100		135	136	/	25.01	/
100		270	0	/	24.97	/
100	DFT-s-OFDM QPSK	1	1	/	25.32	/
100		1	136	/	25.39	/
100		1	271	/	25.29	/
100		135	1	/	24.58	/
100		135	67	/	24.52	/
100		135	136	/	24.57	/
100		270	0	/	24.62	/
100	DFT-s-OFDM 16QAM	1	1	/	24.53	/
100	DFT-s-OFDM 64QAM	1	1	/	23.11	/
100	DFT-s-OFDM 256QAM	1	1	/	20.71	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	24.97	24.91	25.05
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.01	24.99	24.98
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	24.99	24.98	24.91



Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	25.22	25.03	25.04
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.17	25.08	25.20
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.24	25.07	25.15
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.17	24.96	25.10
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.54	/
100	CP-OFDM 16QAM	1	1	/	23.14	/
100	CP-OFDM 64QAM	1	1	/	21.60	/
100	CP-OFDM 256QAM	1	1	/	18.50	/



DC_7A_n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.41	/
100		1	136	/	25.36	/
100		1	271	/	25.42	/
100		135	1	/	24.97	/
100		135	67	/	25.26	/
100		135	136	/	25.00	/
100		270	0	/	25.00	/
100	DFT-s-OFDM QPSK	1	1	/	25.45	/
100		1	136	/	25.23	/
100		1	271	/	25.41	/
100		135	1	/	24.41	/
100		135	67	/	24.36	/
100		135	136	/	24.35	/
100		270	0	/	24.38	/
100	DFT-s-OFDM 16QAM	1	1	/	24.45	/
100	DFT-s-OFDM 64QAM	1	1	/	22.97	/
100	DFT-s-OFDM 256QAM	1	1	/	22.55	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	24.92	25.00	25.05
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.05	24.96	24.94
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	23.59	25.00	24.97



Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	25.25	25.12	25.00
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.21	25.11	25.30
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.03	25.02	24.96
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.31	25.27	25.32
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.71	/
100	CP-OFDM 16QAM	1	1	/	23.10	/
100	CP-OFDM 64QAM	1	1	/	21.53	/
100	CP-OFDM 256QAM	1	1	/	18.48	/



DC_12A_n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.39	/
100		1	136	/	25.35	/
100		1	271	/	25.21	/
100		135	1	/	24.94	/
100		135	67	/	24.77	/
100		135	136	/	24.98	/
100		270	0	/	24.95	/
100	DFT-s-OFDM QPSK	1	1	/	25.40	/
100		1	136	/	25.32	/
100		1	271	/	25.39	/
100		135	1	/	24.55	/
100		135	67	/	24.43	/
100		135	136	/	24.16	/
100		270	0	/	24.16	/
100	DFT-s-OFDM 16QAM	1	1	/	24.65	/
100	DFT-s-OFDM 64QAM	1	1	/	23.09	/
100	DFT-s-OFDM 256QAM	1	1	/	20.70	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	24.97	25.00	25.16
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.06	25.01	24.98
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	23.58	24.99	25.11



Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	23.81	25.07	24.99
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.17	25.10	25.22
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.43	25.28	25.03
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.10	25.31	25.37
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.69	/
100	CP-OFDM 16QAM	1	1	/	23.12	/
100	CP-OFDM 64QAM	1	1	/	21.45	/
100	CP-OFDM 256QAM	1	1	/	18.46	/



DC_66A_n78 (3700 MHz ~ 3800 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	DFT-s-OFDM PI/2 BPSK	1	1	/	25.36	/
100		1	136	/	25.38	/
100		1	271	/	25.41	/
100		135	1	/	24.96	/
100		135	67	/	25.36	/
100		135	136	/	24.98	/
100		270	0	/	25.02	/
100	DFT-s-OFDM QPSK	1	1	/	25.46	/
100		1	136	/	25.35	/
100		1	271	/	25.44	/
100		135	1	/	24.41	/
100		135	67	/	24.43	/
100		135	136	/	24.01	/
100		270	0	/	23.98	/
100	DFT-s-OFDM 16QAM	1	1	/	24.48	/
100	DFT-s-OFDM 64QAM	1	1	/	23.18	/
100	DFT-s-OFDM 256QAM	1	1	/	20.85	/
Channel				649668	650000	650332
Frequency (MHz)				3745.02	3750	3754.98
90	DFT-s-OFDM QPSK	1	1	25.03	24.95	25.01
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.07	24.97	25.01
Channel				649000	650000	651000
Frequency (MHz)				3735	3750	3765
70	DFT-s-OFDM QPSK	1	1	25.02	25.02	24.84



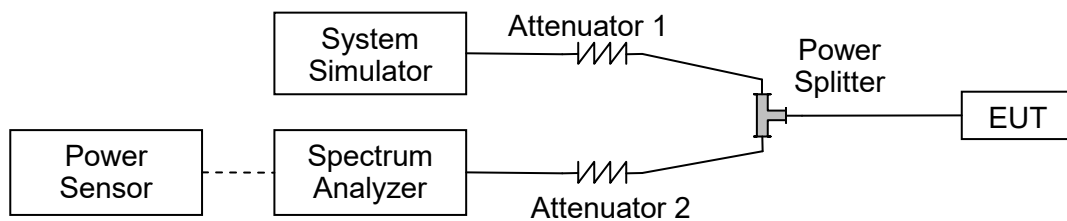
Channel				648668	650000	651332
Frequency (MHz)				3730.02	3750	3769.98
60	DFT-s-OFDM QPSK	1	1	25.19	25.08	25.08
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.12	25.15	25.27
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.20	25.13	25.06
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.23	25.14	25.17
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.70	/
100	CP-OFDM 16QAM	1	1	/	23.27	/
100	CP-OFDM 64QAM	1	1	/	21.80	/
100	CP-OFDM 256QAM	1	1	/	19.44	/

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



NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
2	15	5	386500	1852.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4455	4.605
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	25@0	4.4574	4.582
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	25@0	4.4142	4.601
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	25@0	4.4376	4.599
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	25@0	4.4741	4.745
2	15	5	386500	1852.5	CP-OFDM QPSK	25@0	4.4329	4.571
2	15	5	392000	1880.0	DFT-s-OFDM PI/2 BPSK	25@0	4.4797	4.599
2	15	5	392000	1880.0	DFT-s-OFDM QPSK	25@0	4.438	4.578
2	15	5	392000	1880.0	DFT-s-OFDM 16 QAM	25@0	4.4953	4.603
2	15	5	392000	1880.0	DFT-s-OFDM 64 QAM	25@0	4.4902	4.63
2	15	5	392000	1880.0	DFT-s-OFDM 256 QAM	25@0	4.4924	4.569
2	15	5	392000	1880.0	CP-OFDM QPSK	25@0	4.5131	4.632
2	15	5	397500	1907.5	DFT-s-OFDM PI/2 BPSK	25@0	4.492	4.637
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	25@0	4.459	4.611
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	25@0	4.46	4.598
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	25@0	4.5115	4.637



2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	25@0	4.4401	4.596
2	15	5	397500	1907.5	CP-OFDM QPSK	25@0	4.4198	4.562
2	15	10	387000	1855.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9215	9.403
2	15	10	387000	1855.0	DFT-s-OFDM QPSK	50@0	8.9196	9.395
2	15	10	387000	1855.0	DFT-s-OFDM 16 QAM	50@0	8.8744	9.265
2	15	10	387000	1855.0	DFT-s-OFDM 64 QAM	50@0	8.9353	9.322
2	15	10	387000	1855.0	DFT-s-OFDM 256 QAM	50@0	8.833	9.307
2	15	10	387000	1855.0	CP-OFDM QPSK	52@0	9.2729	9.753
2	15	10	392000	1880.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9153	9.33
2	15	10	392000	1880.0	DFT-s-OFDM QPSK	50@0	8.9363	9.425
2	15	10	392000	1880.0	DFT-s-OFDM 16 QAM	50@0	8.9158	9.249
2	15	10	392000	1880.0	DFT-s-OFDM 64 QAM	50@0	8.8374	9.397
2	15	10	392000	1880.0	DFT-s-OFDM 256 QAM	50@0	8.9167	9.304
2	15	10	392000	1880.0	CP-OFDM QPSK	52@0	9.2911	9.639
2	15	10	397000	1905.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9367	9.277
2	15	10	397000	1905.0	DFT-s-OFDM QPSK	50@0	8.8496	9.336
2	15	10	397000	1905.0	DFT-s-OFDM 16 QAM	50@0	8.8913	9.447



2	15	10	397000	1905.0	DFT-s-OFDM 64 QAM	50@0	8.9079	9.34
2	15	10	397000	1905.0	DFT-s-OFDM 256 QAM	50@0	8.9374	9.36
2	15	10	397000	1905.0	CP-OFDM QPSK	52@0	9.2745	9.742
2	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	75@0	13.329	14.02
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	75@0	13.358	13.87
2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	75@0	13.396	13.99
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	75@0	13.314	13.93
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	75@0	13.39	13.85
2	15	15	387500	1857.5	CP-OFDM QPSK	79@0	14.068	14.71
2	15	15	392000	1880.0	DFT-s-OFDM PI/2 BPSK	75@0	13.424	13.98
2	15	15	392000	1880.0	DFT-s-OFDM QPSK	75@0	13.352	13.96
2	15	15	392000	1880.0	DFT-s-OFDM 16 QAM	75@0	13.347	14.03
2	15	15	392000	1880.0	DFT-s-OFDM 64 QAM	75@0	13.458	13.93
2	15	15	392000	1880.0	DFT-s-OFDM 256 QAM	75@0	13.447	13.88
2	15	15	392000	1880.0	CP-OFDM QPSK	79@0	14.191	14.91
2	15	15	396500	1902.5	DFT-s-OFDM PI/2 BPSK	75@0	13.45	14.03
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	75@0	13.383	14.0



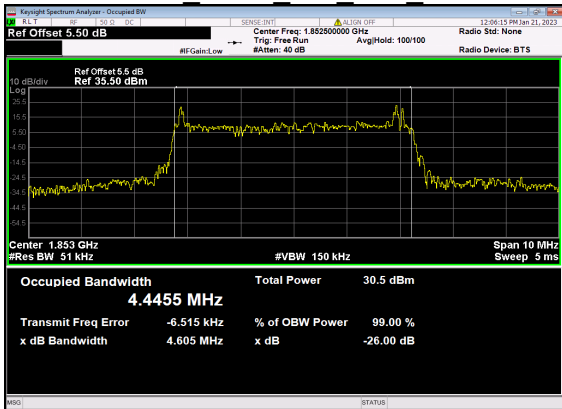
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	75@0	13.437	13.92
2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	75@0	13.463	13.87
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	75@0	13.287	13.95
2	15	15	396500	1902.5	CP-OFDM QPSK	79@0	14.091	14.58
2	15	20	388000	1860.0	DFT-s-OFDM PI/2 BPSK	100@0	17.969	18.57
2	15	20	388000	1860.0	DFT-s-OFDM QPSK	100@0	17.92	18.47
2	15	20	388000	1860.0	DFT-s-OFDM 16 QAM	100@0	17.842	18.55
2	15	20	388000	1860.0	DFT-s-OFDM 64 QAM	100@0	17.809	18.47
2	15	20	388000	1860.0	DFT-s-OFDM 256 QAM	100@0	17.886	18.74
2	15	20	388000	1860.0	CP-OFDM QPSK	106@0	18.941	19.82
2	15	20	392000	1880.0	DFT-s-OFDM PI/2 BPSK	100@0	17.909	18.71
2	15	20	392000	1880.0	DFT-s-OFDM QPSK	100@0	17.8	18.56
2	15	20	392000	1880.0	DFT-s-OFDM 16 QAM	100@0	17.753	18.6
2	15	20	392000	1880.0	DFT-s-OFDM 64 QAM	100@0	17.807	18.48
2	15	20	392000	1880.0	DFT-s-OFDM 256 QAM	100@0	17.899	18.53
2	15	20	392000	1880.0	CP-OFDM QPSK	106@0	19.016	19.71
2	15	20	396000	1900.0	DFT-s-OFDM PI/2 BPSK	100@0	17.838	18.59



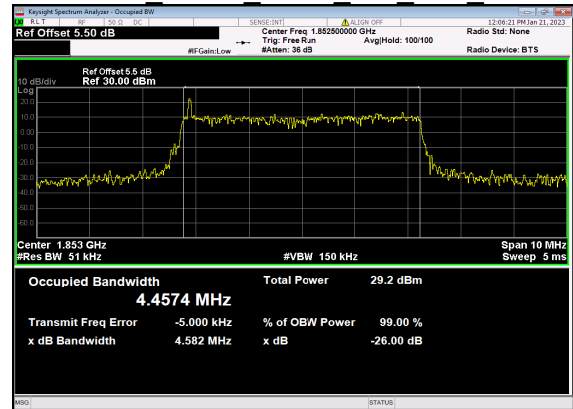
2	15	20	396000	1900.0	DFT-s-OFDM QPSK	100@0	17.851	18.57
2	15	20	396000	1900.0	DFT-s-OFDM 16 QAM	100@0	17.856	18.64
2	15	20	396000	1900.0	DFT-s-OFDM 64 QAM	100@0	17.824	18.49
2	15	20	396000	1900.0	DFT-s-OFDM 256 QAM	100@0	17.735	18.48
2	15	20	396000	1900.0	CP-OFDM QPSK	106@0	18.971	19.66



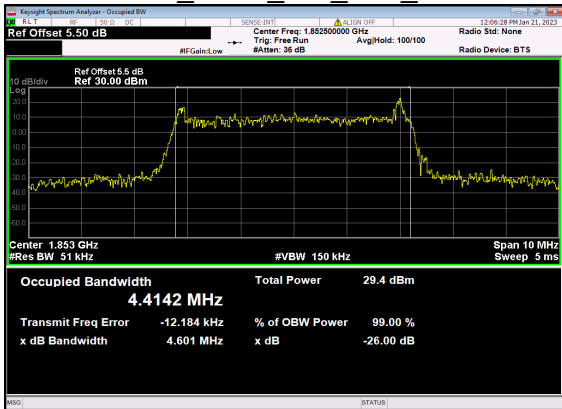
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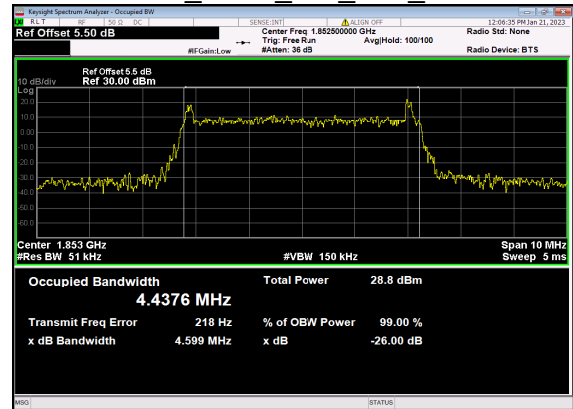
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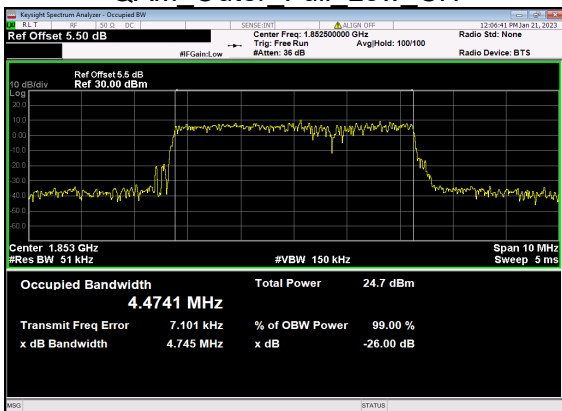
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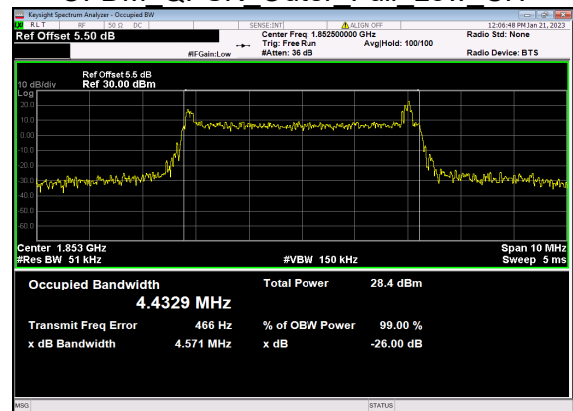
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N2(5M)_DFT-s-OFDM_256 QAM Outer Full Low CH

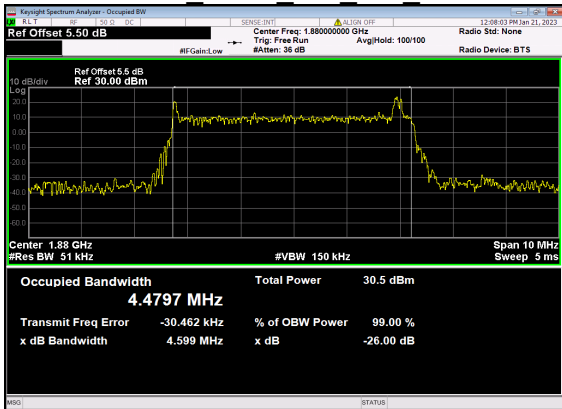


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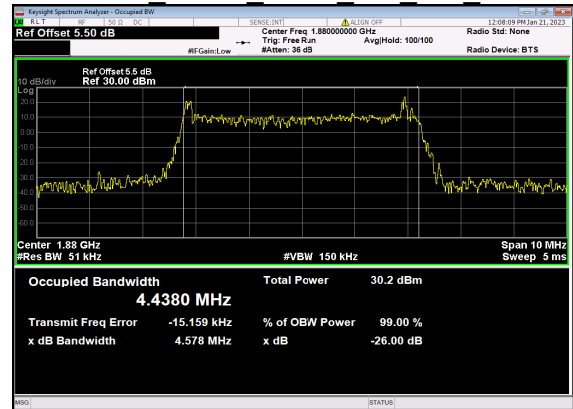




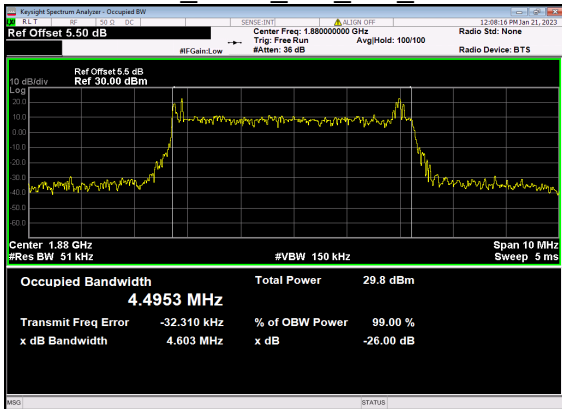
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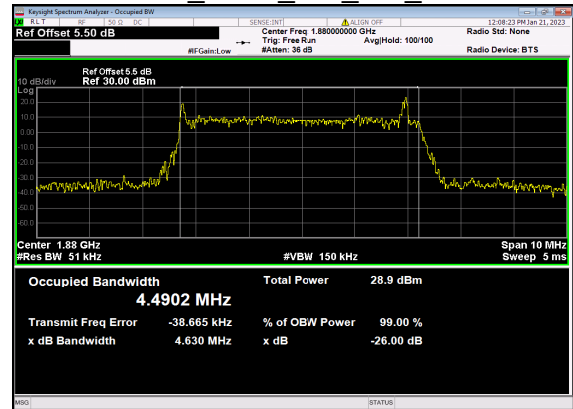
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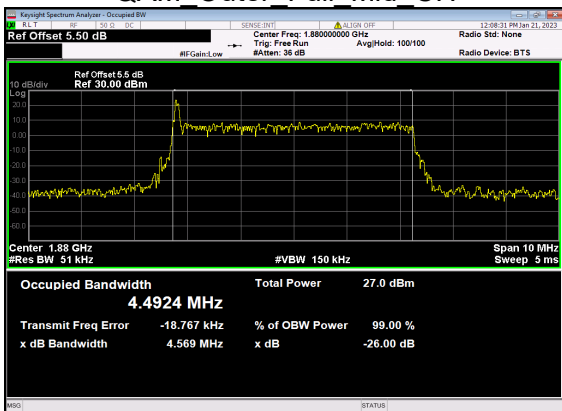
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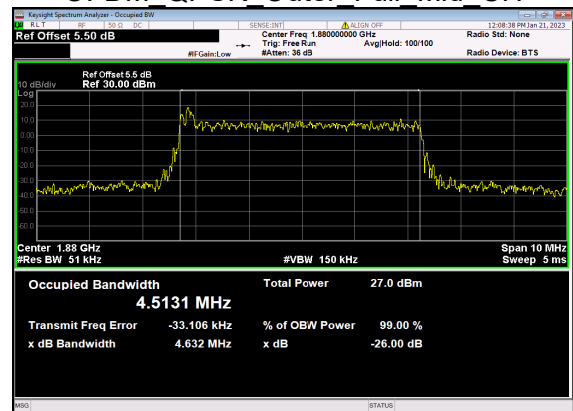
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N2(5M)_DFT-s-OFDM_256 QAM Outer Full Mid CH

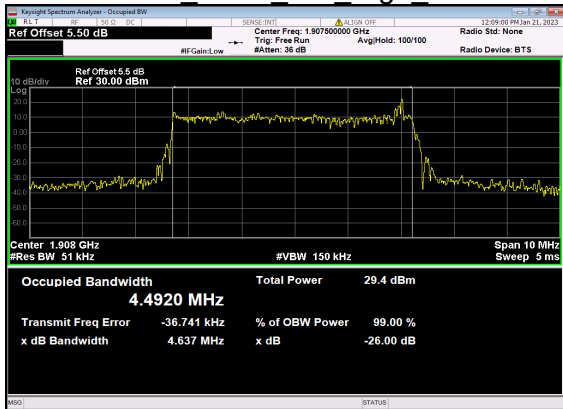


N2(5M)_CP-OFDM QPSK Outer Full Mid CH

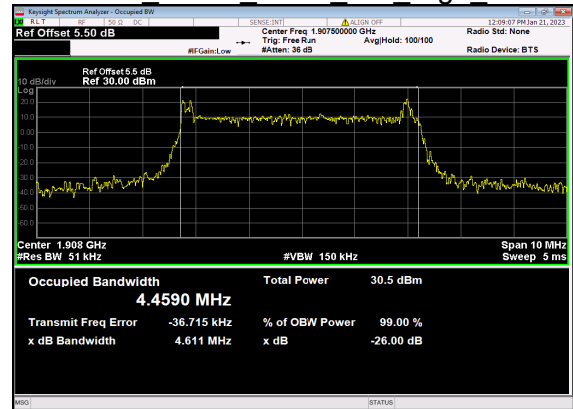




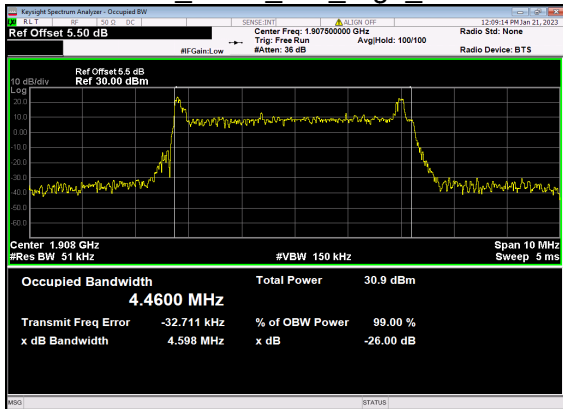
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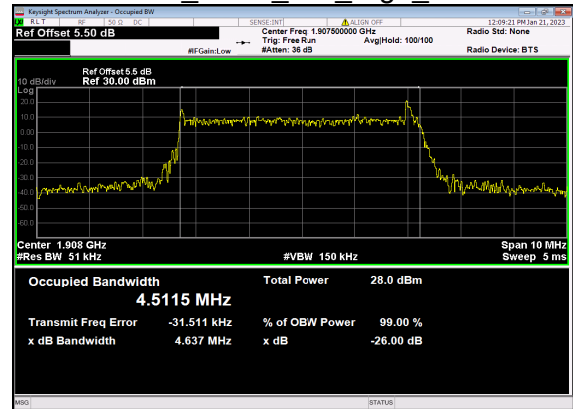
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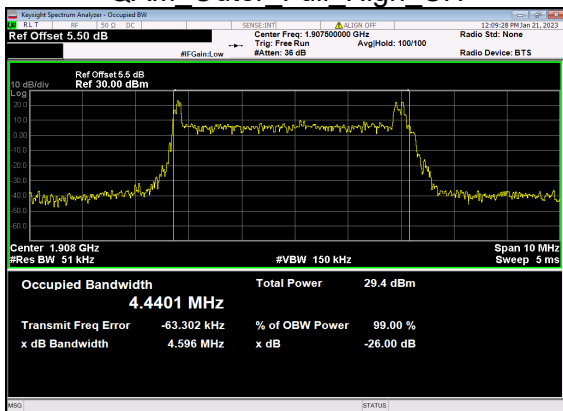
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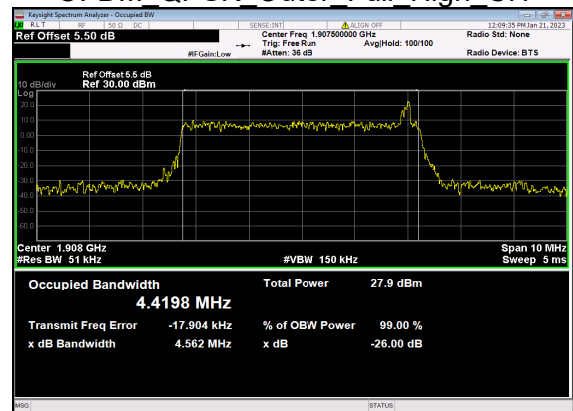
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N2(5M)_DFT-s-OFDM_256 QAM Outer Full High CH

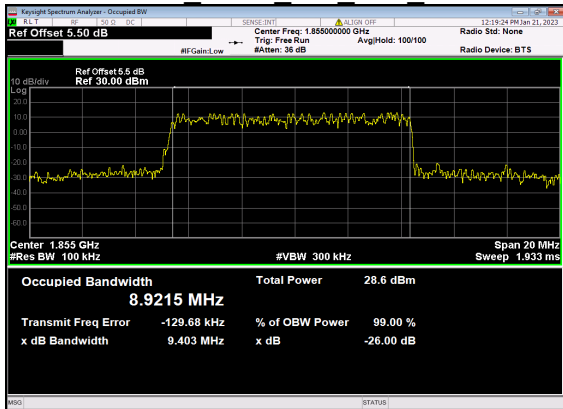


N2(5M)_CP-OFDM QPSK Outer Full High CH

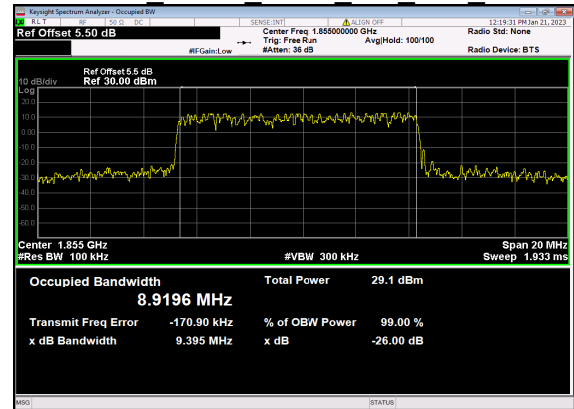




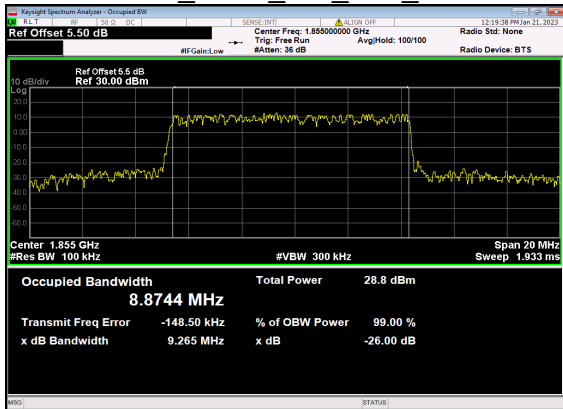
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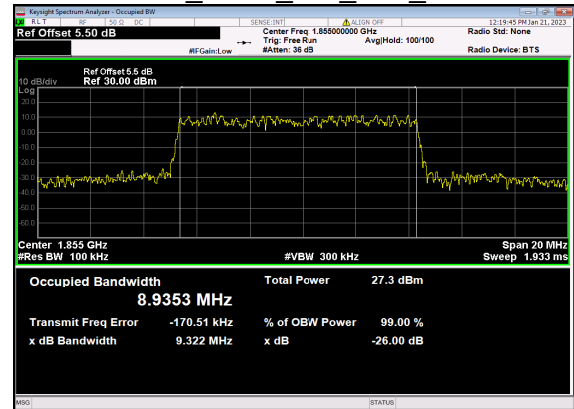
N2(10M)_DFT-s-OFDM QPSK Outer Full Low CH



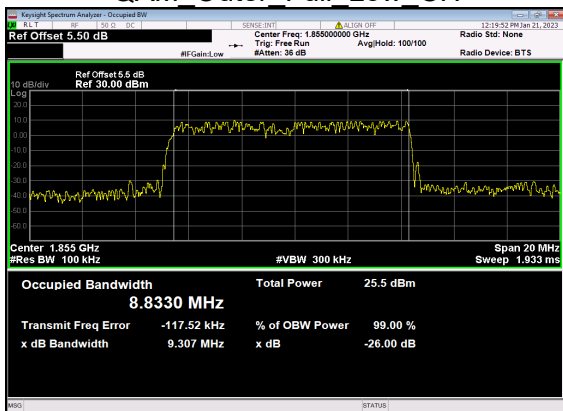
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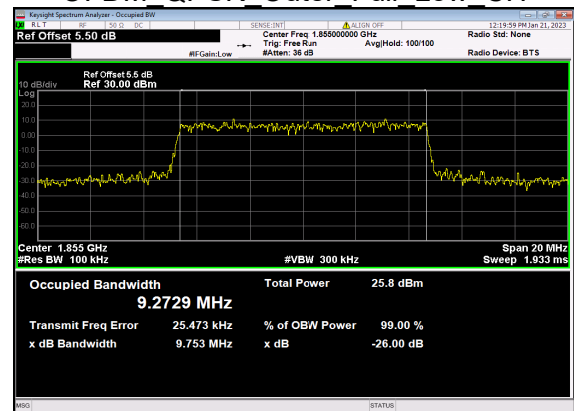
N2(10M)_DFT-s-OFDM_64 QAM Outer Full Low CH



N2(10M)_DFT-s-OFDM_256 QAM Outer Full Low CH

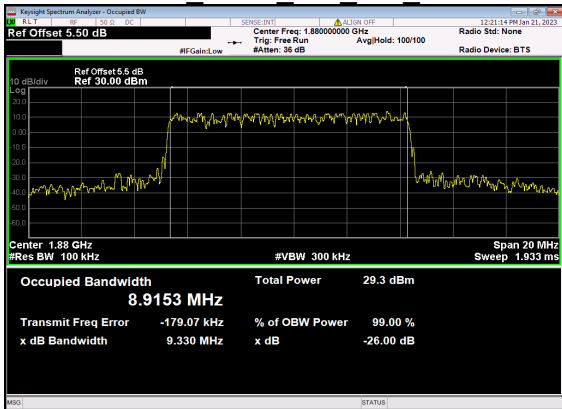


N2(10M)_CP-OFDM QPSK Outer Full Low CH

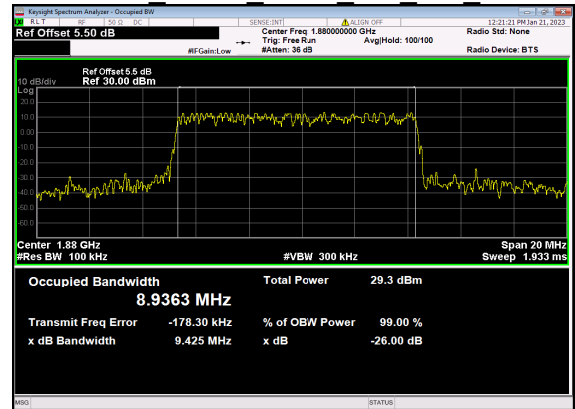




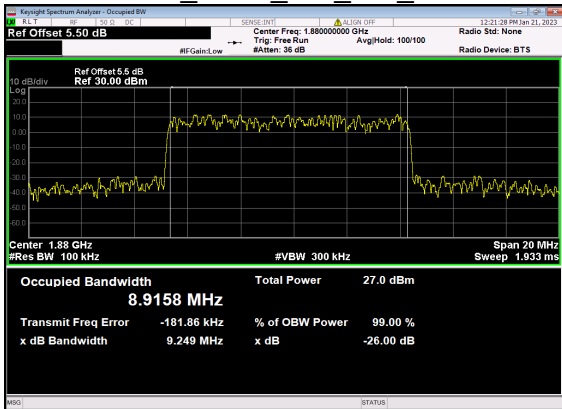
N2(10M)_DFT-s-OFDM_PI_2- BPSK Outer Full Mid CH



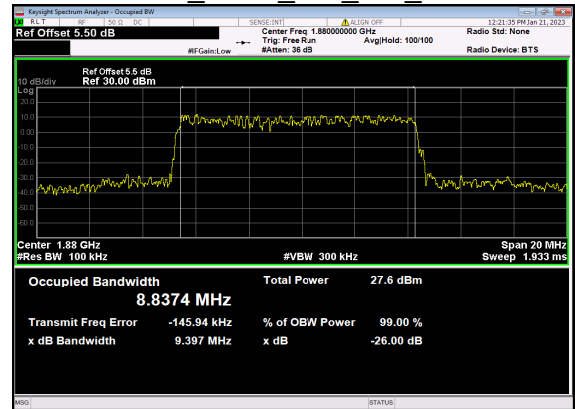
N2(10M)_DFT-s-OFDM_QPSK Outer Full Mid CH



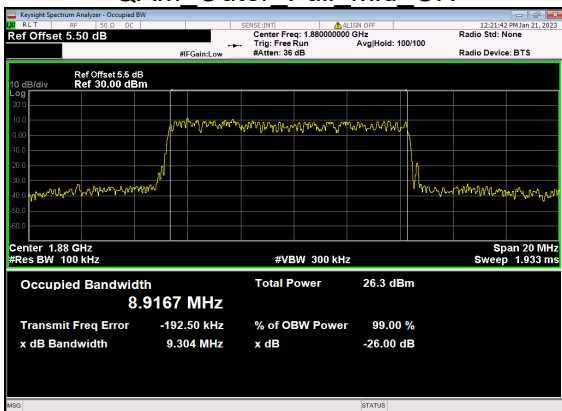
N2(10M)_DFT-s-OFDM_16 QAM Outer Full Mid CH



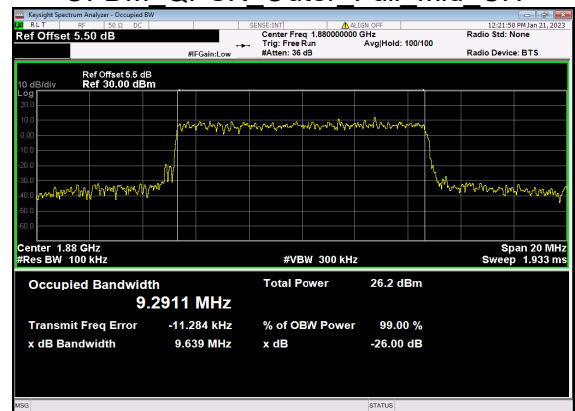
N2(10M)_DFT-s-OFDM_64 QAM Outer Full Mid CH



N2(10M)_DFT-s-OFDM_256 QAM Outer Full Mid CH

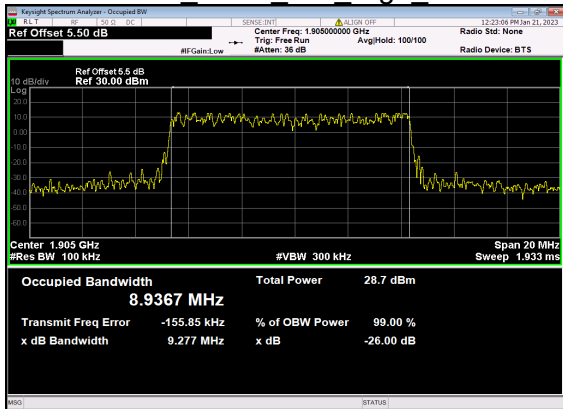


N2(10M)_CP-OFDM_QPSK Outer Full Mid CH

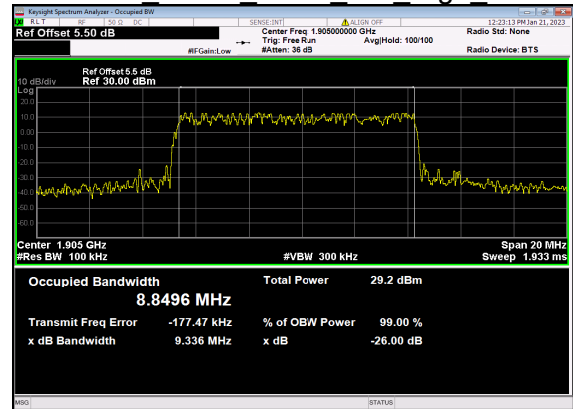




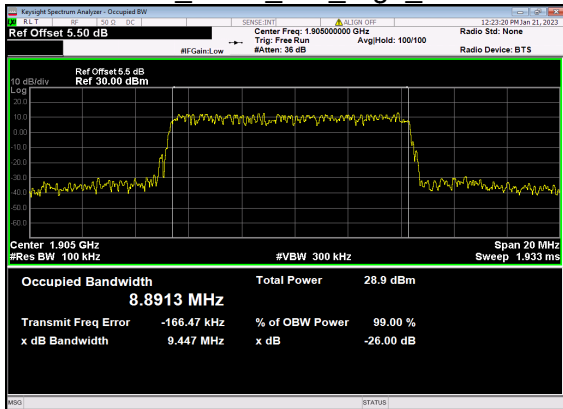
N2(10M)_DFT-s-OFDM_PI_2-BPSK Outer Full High CH



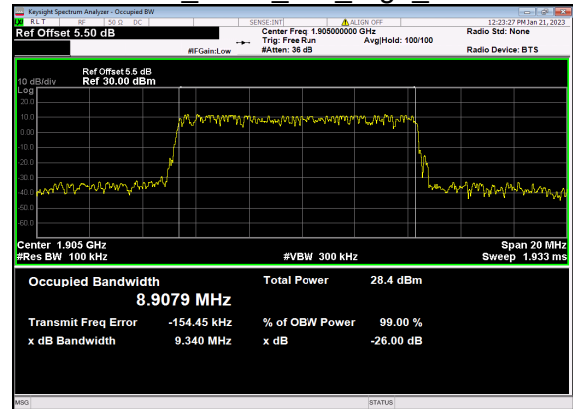
N2(10M)_DFT-s-OFDM QPSK Outer Full High CH



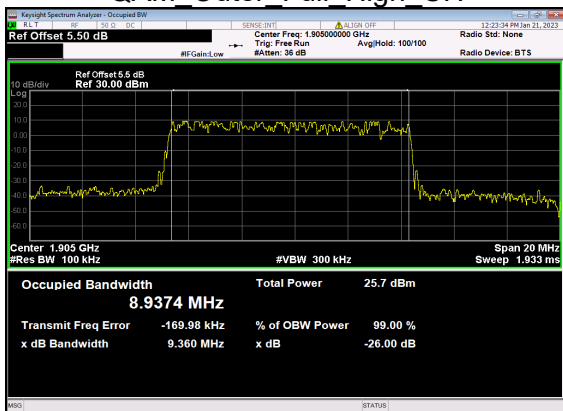
N2(10M)_DFT-s-OFDM_16 QAM Outer Full High CH



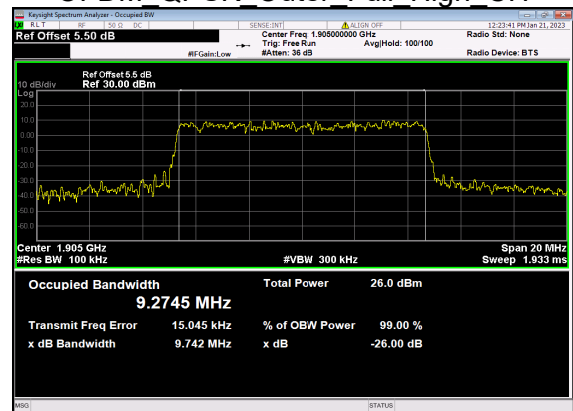
N2(10M)_DFT-s-OFDM_64 QAM Outer Full High CH



N2(10M)_DFT-s-OFDM_256 QAM Outer Full High CH

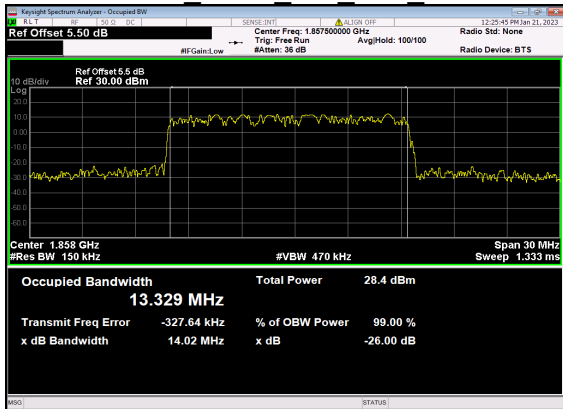


N2(10M)_CP-OFDM QPSK Outer Full High CH

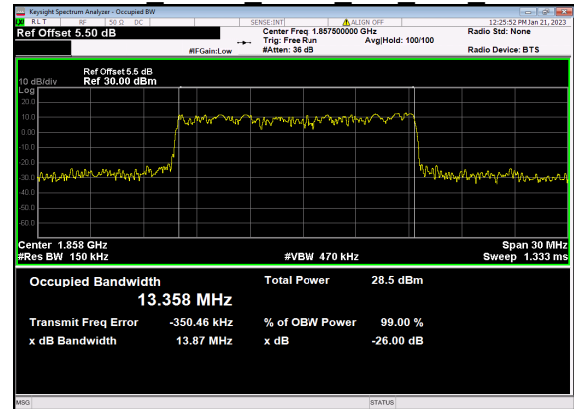




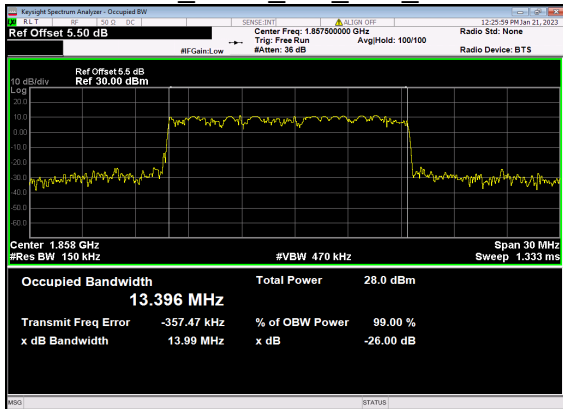
N2(15M)_DFT-s-OFDM_PI_2-BPSK Outer Full Low CH



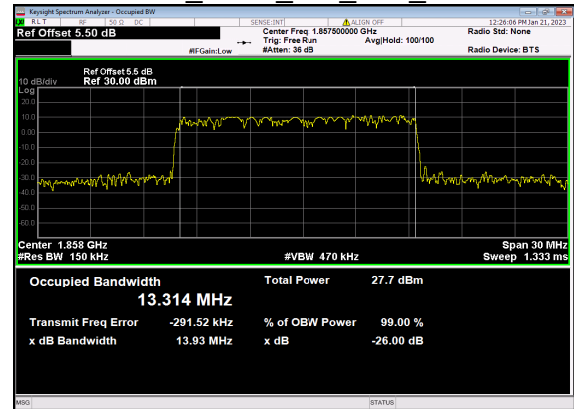
N2(15M)_DFT-s-OFDM QPSK Outer Full Low CH



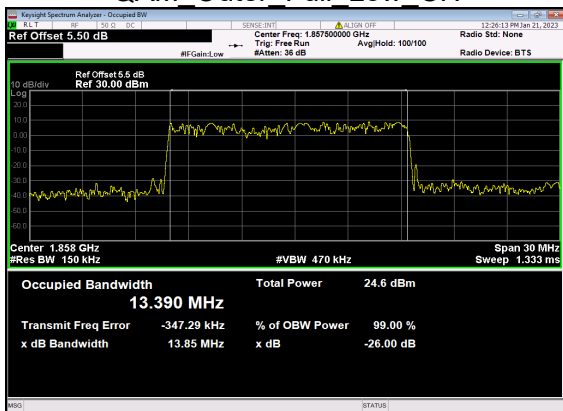
N2(15M)_DFT-s-OFDM_16 QAM Outer Full Low CH



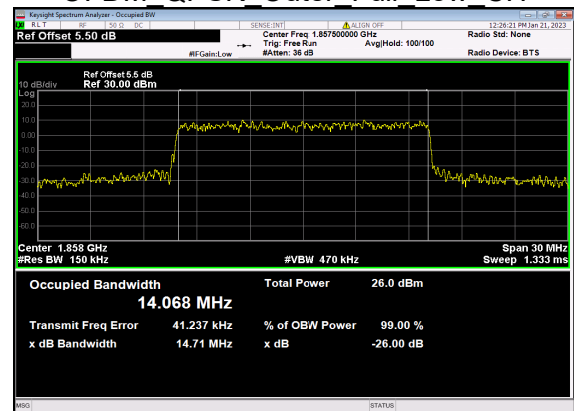
N2(15M)_DFT-s-OFDM_64 QAM Outer Full Low CH



N2(15M)_DFT-s-OFDM_256 QAM Outer Full Low CH

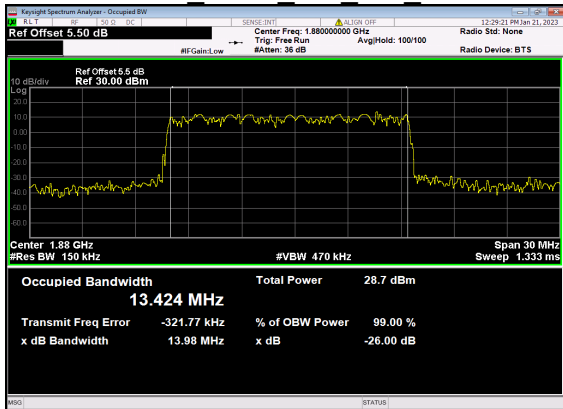


N2(15M)_CP-OFDM QPSK Outer Full Low CH

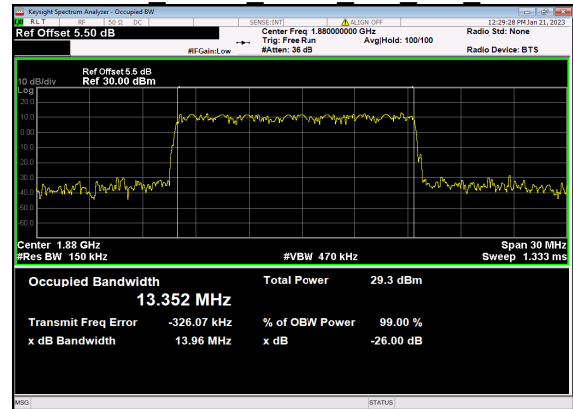




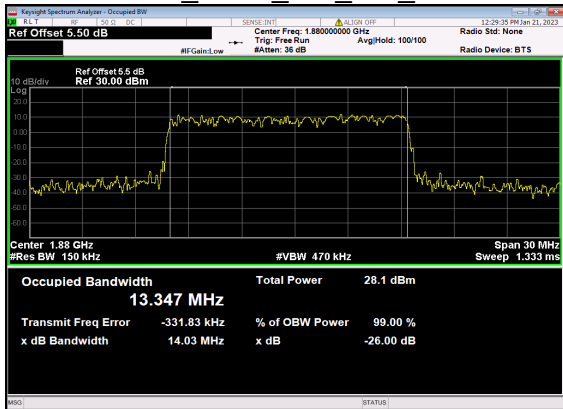
N2(15M)_DFT-s-OFDM_PI_2- BPSK Outer Full Mid CH



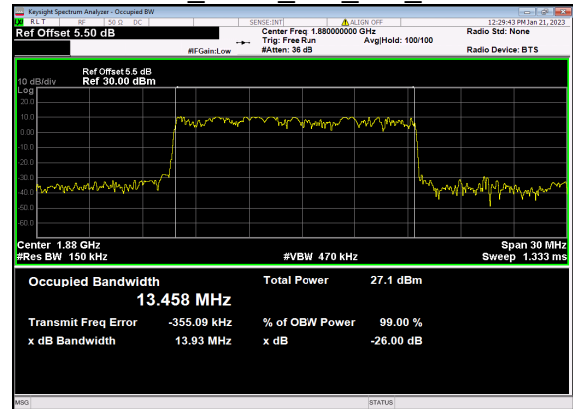
N2(15M)_DFT-s-OFDM QPSK Outer Full Mid CH



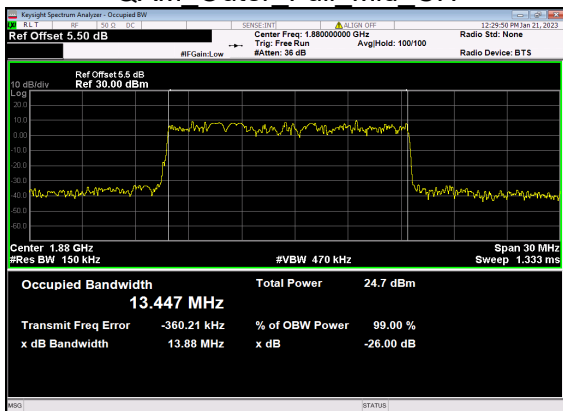
N2(15M)_DFT-s-OFDM_16 QAM Outer Full Mid CH



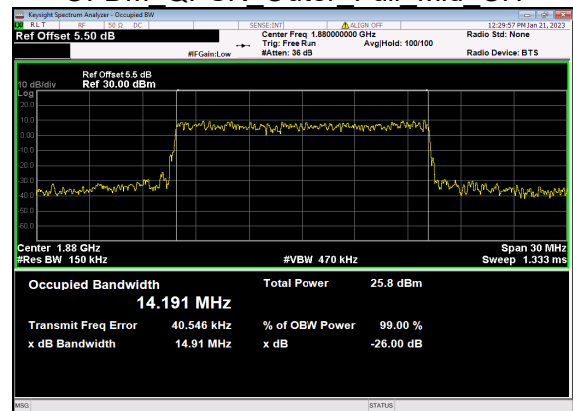
N2(15M)_DFT-s-OFDM_64 QAM Outer Full Mid CH



N2(15M)_DFT-s-OFDM_256 QAM Outer Full Mid CH

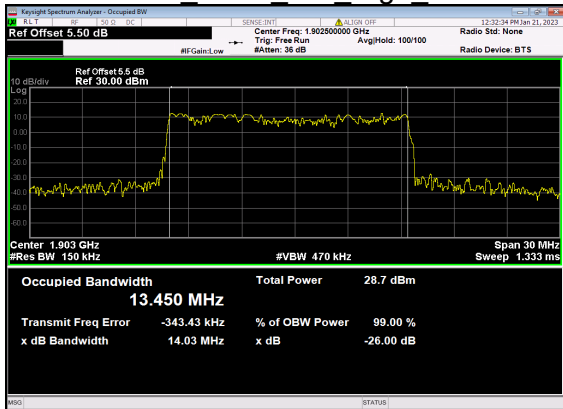


N2(15M)_CP-OFDM QPSK Outer Full Mid CH

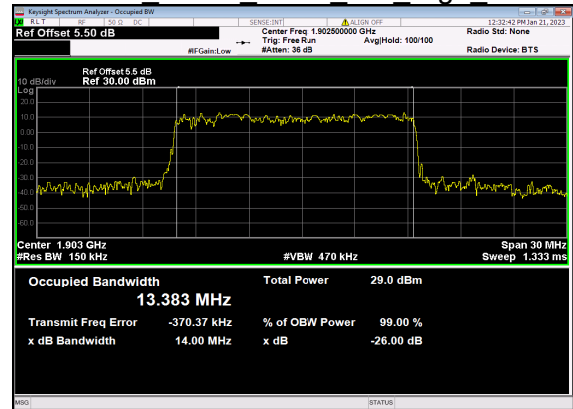




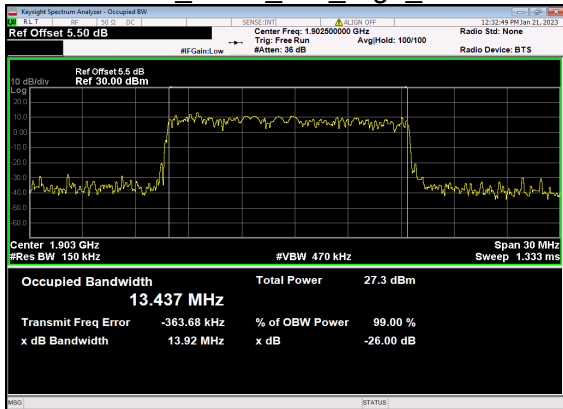
N2(15M)_DFT-s-OFDM_PI_2-BPSK Outer Full High CH



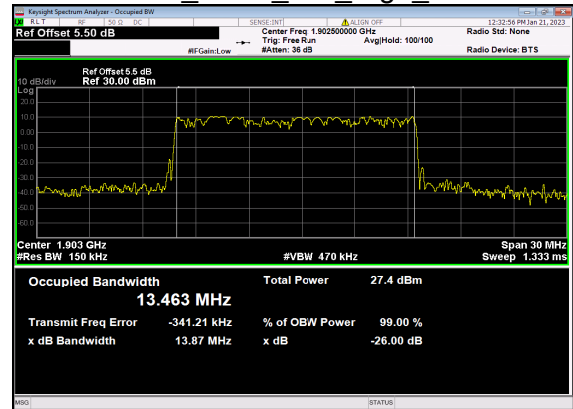
N2(15M)_DFT-s-OFDM QPSK Outer Full High CH



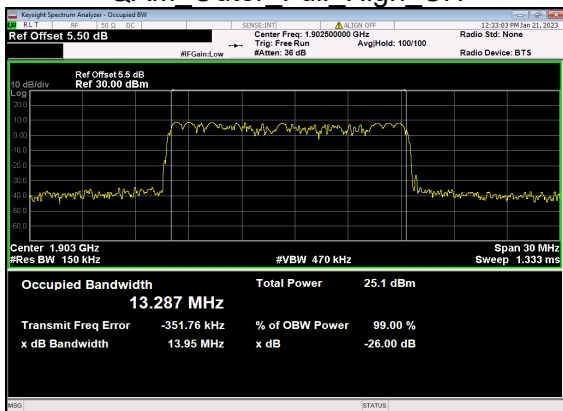
N2(15M)_DFT-s-OFDM_16 QAM Outer Full High CH



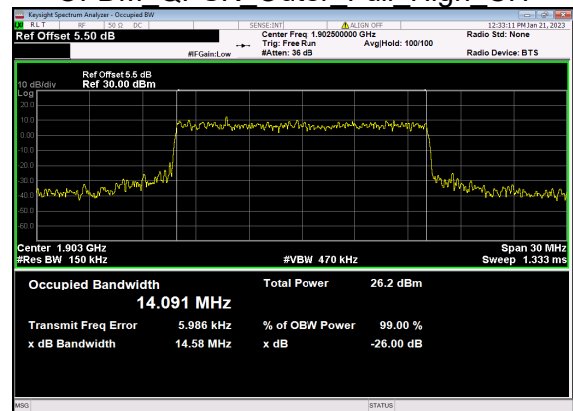
N2(15M)_DFT-s-OFDM_64 QAM Outer Full High CH



N2(15M)_DFT-s-OFDM_256 QAM Outer Full High CH

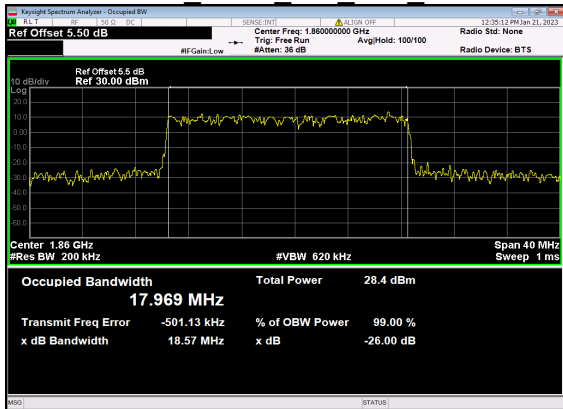


N2(15M)_CP-OFDM QPSK Outer Full High CH

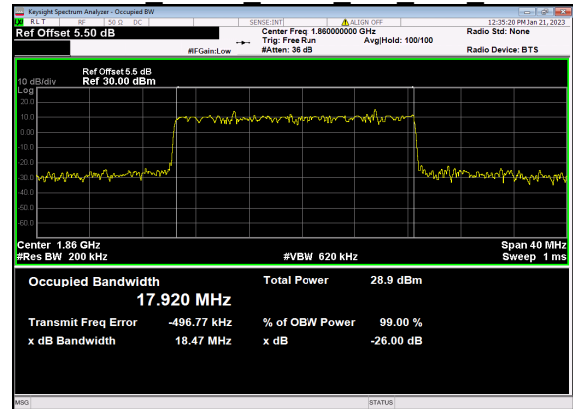




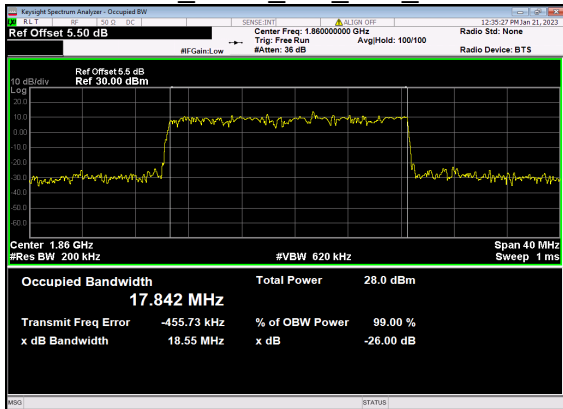
N2(20M)_DFT-s-OFDM_PI_2-BPSK Outer Full Low CH



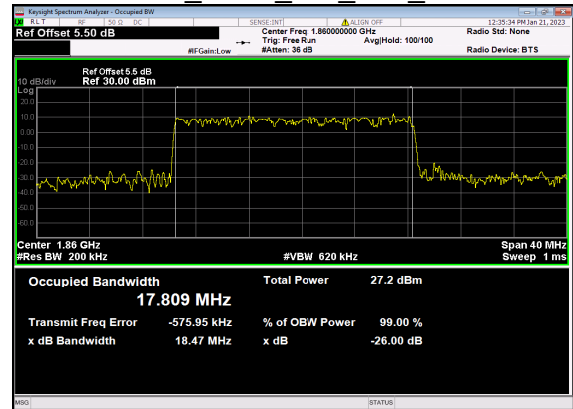
N2(20M)_DFT-s-OFDM QPSK Outer Full Low CH



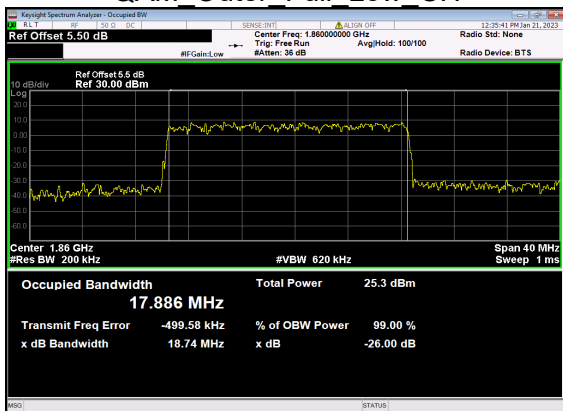
N2(20M)_DFT-s-OFDM_16 QAM Outer Full Low CH



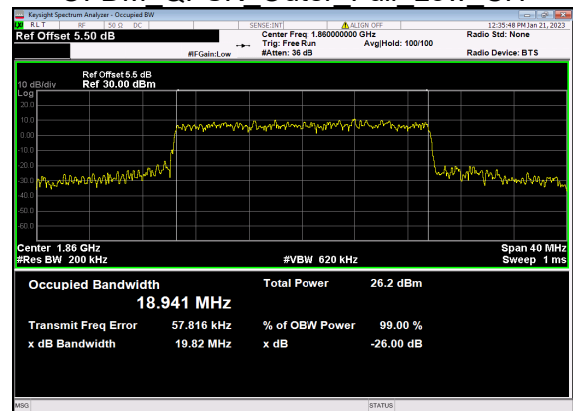
N2(20M)_DFT-s-OFDM_64 QAM Outer Full Low CH



N2(20M)_DFT-s-OFDM_256 QAM Outer Full Low CH

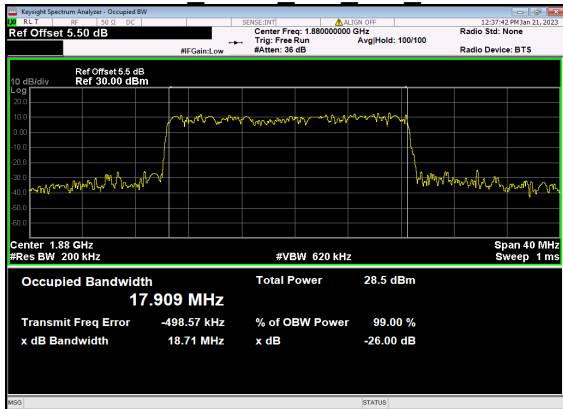


N2(20M)_CP-OFDM QPSK Outer Full Low CH

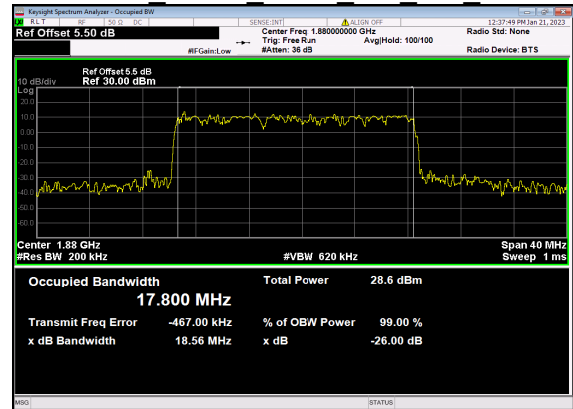




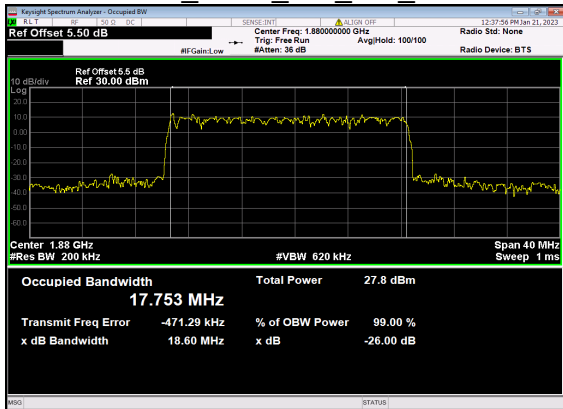
N2(20M)_DFT-s-OFDM_PI_2- BPSK Outer Full Mid CH



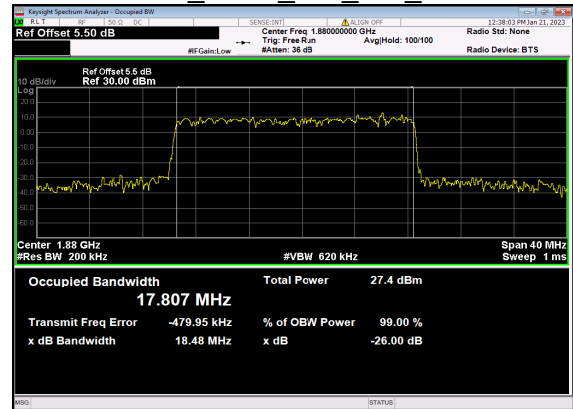
N2(20M)_DFT-s-OFDM QPSK Outer Full Mid CH



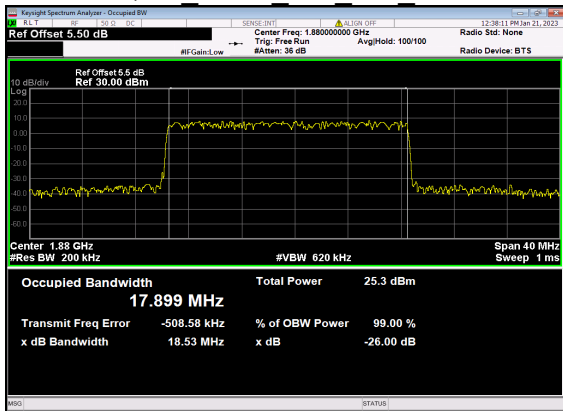
N2(20M)_DFT-s-OFDM_16 QAM Outer Full Mid CH



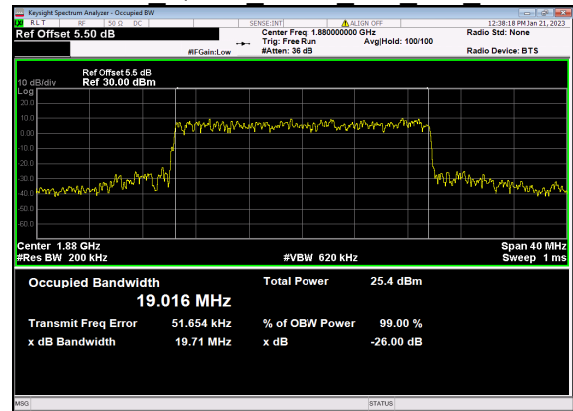
N2(20M)_DFT-s-OFDM_64 QAM Outer Full Mid CH



N2(20M)_DFT-s-OFDM_256 QAM Outer Full Mid CH

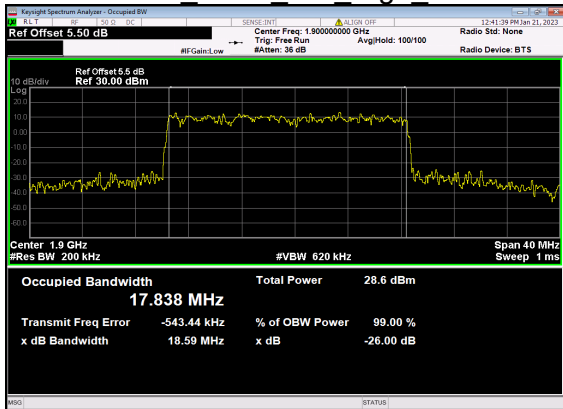


N2(20M)_CP-OFDM QPSK Outer Full Mid CH

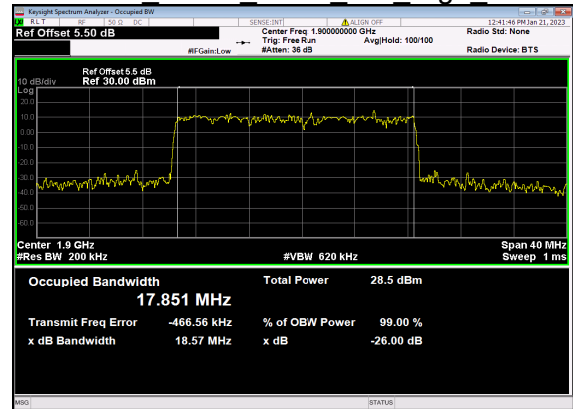




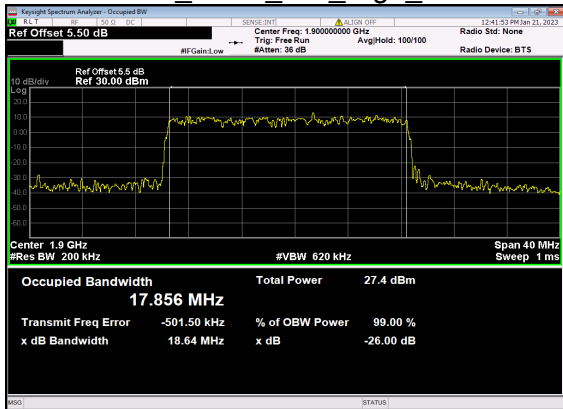
N2(20M)_DFT-s-OFDM_PI_2-BPSK Outer Full High CH



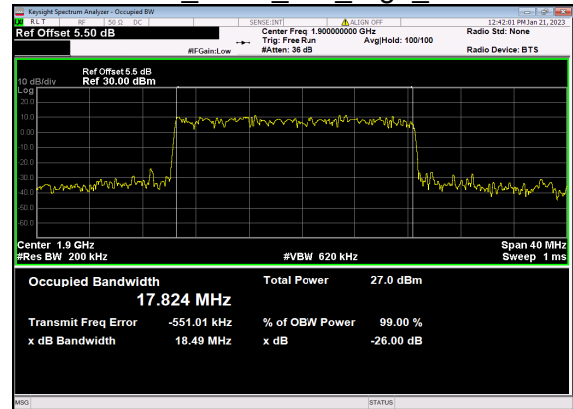
N2(20M)_DFT-s-OFDM QPSK Outer Full High CH



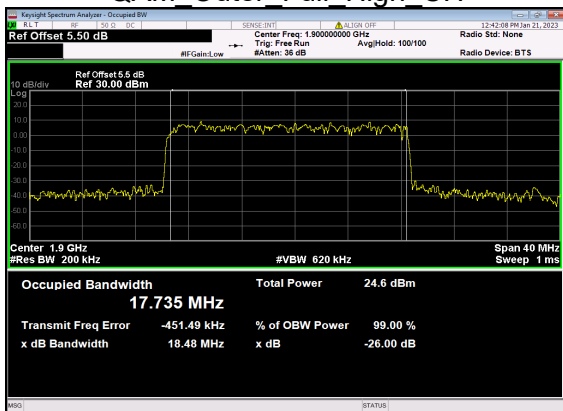
N2(20M)_DFT-s-OFDM_16 QAM Outer Full High CH



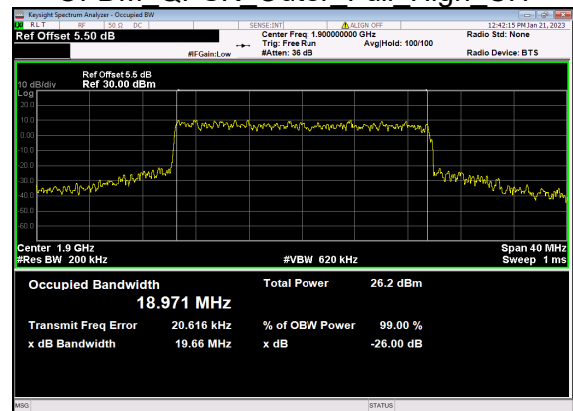
N2(20M)_DFT-s-OFDM_64 QAM Outer Full High CH



N2(20M)_DFT-s-OFDM_256 QAM Outer Full High CH



N2(20M)_CP-OFDM QPSK Outer Full High CH





NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4186	4.609
5	15	5	174300	826.5	DFT-s-OFDM QPSK	25@0	4.502	4.625
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	25@0	4.441	4.602
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	25@0	4.4643	4.619
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	25@0	4.4235	4.556
5	15	5	174300	826.5	CP-OFDM QPSK	25@0	4.4557	4.837
5	15	5	176300	836.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4393	4.611
5	15	5	176300	836.5	DFT-s-OFDM QPSK	25@0	4.4551	4.587
5	15	5	176300	836.5	DFT-s-OFDM 16 QAM	25@0	4.4592	4.626
5	15	5	176300	836.5	DFT-s-OFDM 64 QAM	25@0	4.4832	4.61
5	15	5	176300	836.5	DFT-s-OFDM 256 QAM	25@0	4.4806	4.607
5	15	5	176300	836.5	CP-OFDM QPSK	25@0	4.4825	4.592
5	15	5	178300	846.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4422	4.587
5	15	5	178300	846.5	DFT-s-OFDM QPSK	25@0	4.5045	4.638
5	15	5	178300	846.5	DFT-s-OFDM 16 QAM	25@0	4.4616	4.952
5	15	5	178300	846.5	DFT-s-OFDM 64 QAM	25@0	4.4792	4.614



5	15	5	178300	846.5	DFT-s-OFDM 256 QAM	25@0	4.4741	4.591
5	15	5	178300	846.5	CP-OFDM QPSK	25@0	4.4246	4.563
5	15	10	174800	829.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9308	10.08
5	15	10	174800	829.0	DFT-s-OFDM QPSK	50@0	8.9299	9.214
5	15	10	174800	829.0	DFT-s-OFDM 16 QAM	50@0	8.937	9.184
5	15	10	174800	829.0	DFT-s-OFDM 64 QAM	50@0	8.7936	9.072
5	15	10	174800	829.0	DFT-s-OFDM 256 QAM	50@0	8.792	9.11
5	15	10	174800	829.0	CP-OFDM QPSK	52@0	9.2489	9.669
5	15	10	176300	836.5	DFT-s-OFDM PI/2 BPSK	50@0	8.868	9.165
5	15	10	176300	836.5	DFT-s-OFDM QPSK	50@0	8.8822	9.207
5	15	10	176300	836.5	DFT-s-OFDM 16 QAM	50@0	8.7938	9.181
5	15	10	176300	836.5	DFT-s-OFDM 64 QAM	50@0	8.8622	9.105
5	15	10	176300	836.5	DFT-s-OFDM 256 QAM	50@0	8.903	9.89
5	15	10	176300	836.5	CP-OFDM QPSK	52@0	9.3444	9.575
5	15	10	177800	844.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8665	9.21
5	15	10	177800	844.0	DFT-s-OFDM QPSK	50@0	8.8772	9.394
5	15	10	177800	844.0	DFT-s-OFDM 16 QAM	50@0	9.0298	9.358



5	15	10	177800	844.0	DFT-s-OFDM 64 QAM	50@0	9.0032	9.215
5	15	10	177800	844.0	DFT-s-OFDM 256 QAM	50@0	8.8436	9.122
5	15	10	177800	844.0	CP-OFDM QPSK	52@0	9.2557	9.474
5	15	15	175300	831.5	DFT-s-OFDM PI/2 BPSK	75@0	13.419	13.93
5	15	15	175300	831.5	DFT-s-OFDM QPSK	75@0	13.506	13.8
5	15	15	175300	831.5	DFT-s-OFDM 16 QAM	75@0	13.4	14.83
5	15	15	175300	831.5	DFT-s-OFDM 64 QAM	75@0	13.501	13.82
5	15	15	175300	831.5	DFT-s-OFDM 256 QAM	75@0	13.445	13.78
5	15	15	175300	831.5	CP-OFDM QPSK	79@0	14.157	14.43
5	15	15	176300	836.5	DFT-s-OFDM PI/2 BPSK	75@0	13.495	13.83
5	15	15	176300	836.5	DFT-s-OFDM QPSK	75@0	13.338	13.79
5	15	15	176300	836.5	DFT-s-OFDM 16 QAM	75@0	13.353	14.08
5	15	15	176300	836.5	DFT-s-OFDM 64 QAM	75@0	13.511	13.8
5	15	15	176300	836.5	DFT-s-OFDM 256 QAM	75@0	13.343	13.67
5	15	15	176300	836.5	CP-OFDM QPSK	79@0	14.108	14.5
5	15	15	177300	841.5	DFT-s-OFDM PI/2 BPSK	75@0	13.437	13.89
5	15	15	177300	841.5	DFT-s-OFDM QPSK	75@0	13.286	13.73



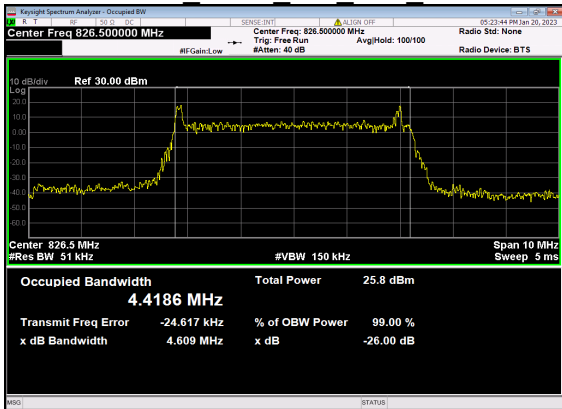
5	15	15	177300	841.5	DFT-s-OFDM 16 QAM	75@0	13.424	15.84
5	15	15	177300	841.5	DFT-s-OFDM 64 QAM	75@0	13.568	13.84
5	15	15	177300	841.5	DFT-s-OFDM 256 QAM	75@0	13.335	13.85
5	15	15	177300	841.5	CP-OFDM QPSK	79@0	14.007	14.48
5	15	20	175800	834.0	DFT-s-OFDM PI/2 BPSK	100@0	17.826	18.48
5	15	20	175800	834.0	DFT-s-OFDM QPSK	100@0	17.969	18.43
5	15	20	175800	834.0	DFT-s-OFDM 16 QAM	100@0	17.783	18.61
5	15	20	175800	834.0	DFT-s-OFDM 64 QAM	100@0	17.896	20.83
5	15	20	175800	834.0	DFT-s-OFDM 256 QAM	100@0	17.887	18.6
5	15	20	175800	834.0	CP-OFDM QPSK	106@0	18.802	21.89
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	17.615	18.24
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	17.849	18.66
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	100@0	17.894	19.03
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	100@0	17.814	18.47
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	100@0	17.926	18.47
5	15	20	176300	836.5	CP-OFDM QPSK	106@0	18.97	19.92
5	15	20	176800	839.0	DFT-s-OFDM PI/2 BPSK	100@0	18.072	18.45



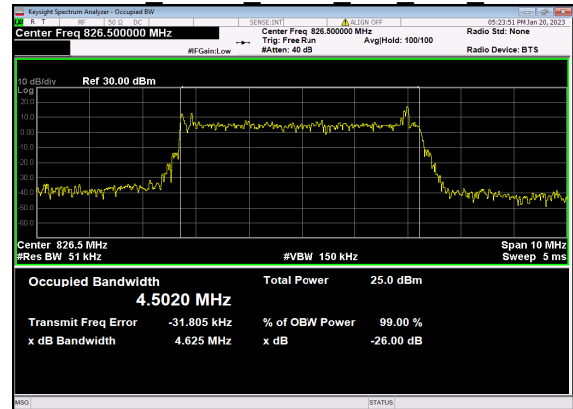
5	15	20	176800	839.0	DFT-s-OFDM QPSK	100@0	18.005	18.44
5	15	20	176800	839.0	DFT-s-OFDM 16 QAM	100@0	17.592	18.32
5	15	20	176800	839.0	DFT-s-OFDM 64 QAM	100@0	17.859	18.36
5	15	20	176800	839.0	DFT-s-OFDM 256 QAM	100@0	17.897	18.38
5	15	20	176800	839.0	CP-OFDM QPSK	106@0	18.851	19.43



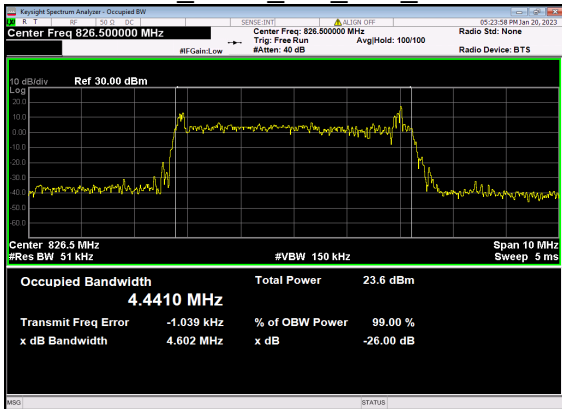
N5(5M)_DFT-s-OFDM_PI_2-BPSK Outer Full Low CH



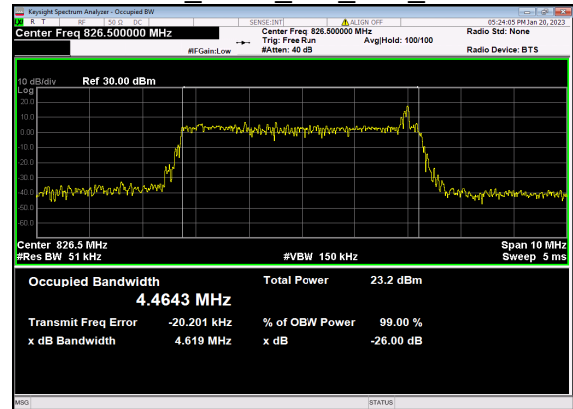
N5(5M)_DFT-s-OFDM QPSK Outer Full Low CH



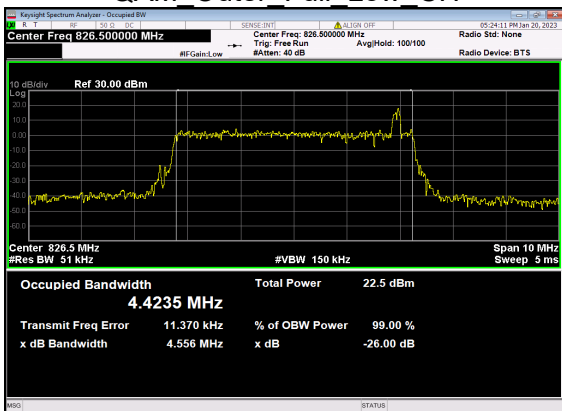
N5(5M)_DFT-s-OFDM_16 QAM Outer Full Low CH



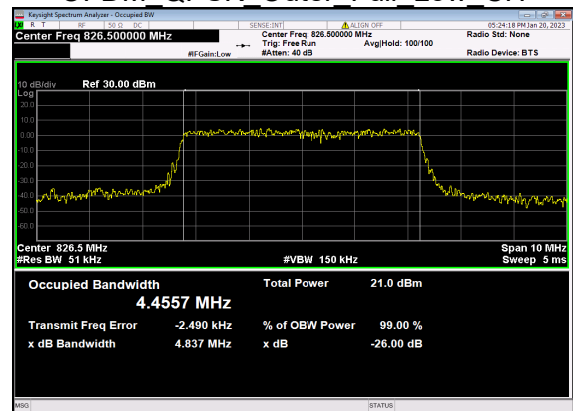
N5(5M)_DFT-s-OFDM_64 QAM Outer Full Low CH



N5(5M)_DFT-s-OFDM_256 QAM Outer Full Low CH

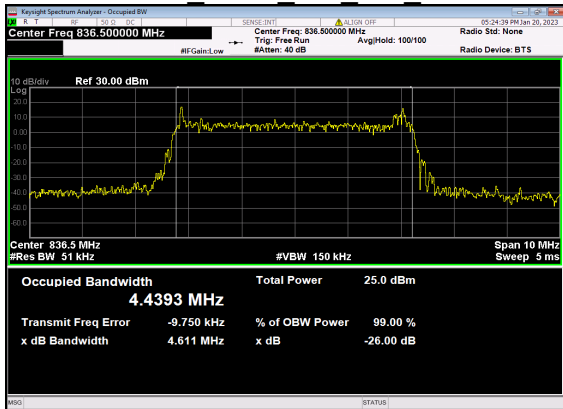


N5(5M)_CP-OFDM QPSK Outer Full Low CH

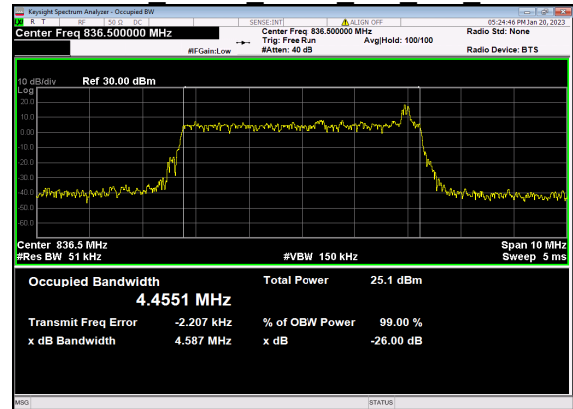




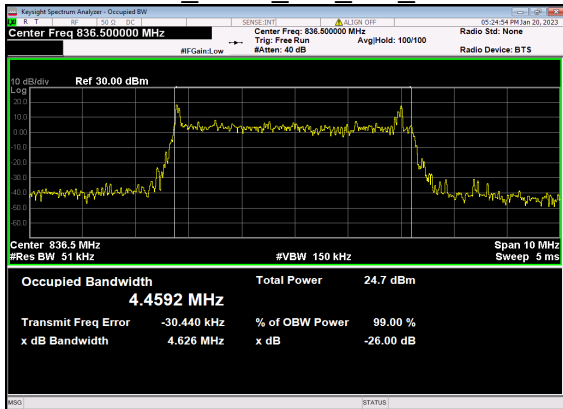
N5(5M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Mid CH



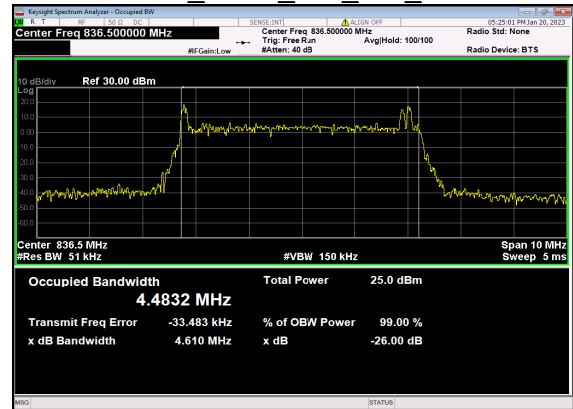
N5(5M)_DFT-s-
OFDM QPSK Outer Full Mid CH



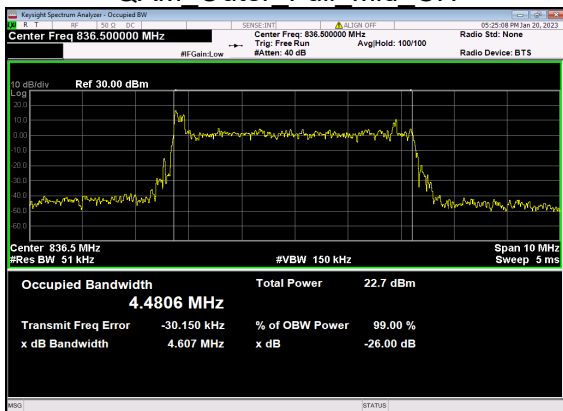
N5(5M)_DFT-s-OFDM_16
QAM Outer Full Mid CH



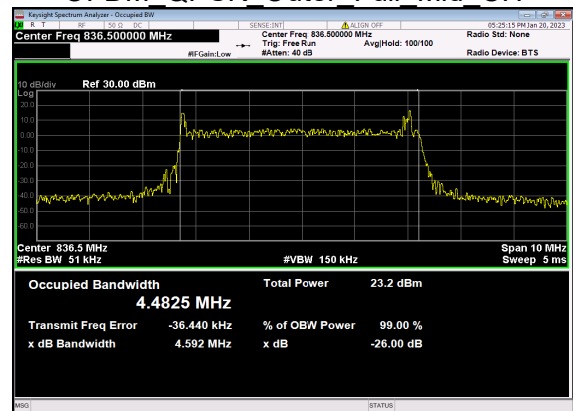
N5(5M)_DFT-s-OFDM_64
QAM Outer Full Mid CH



N5(5M)_DFT-s-OFDM_256
QAM Outer Full Mid CH

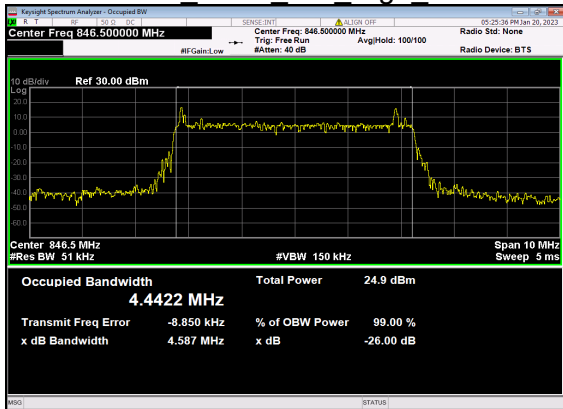


N5(5M)_CP-
OFDM QPSK Outer Full Mid CH

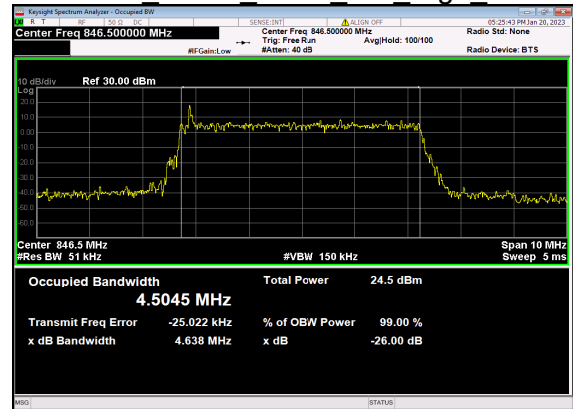




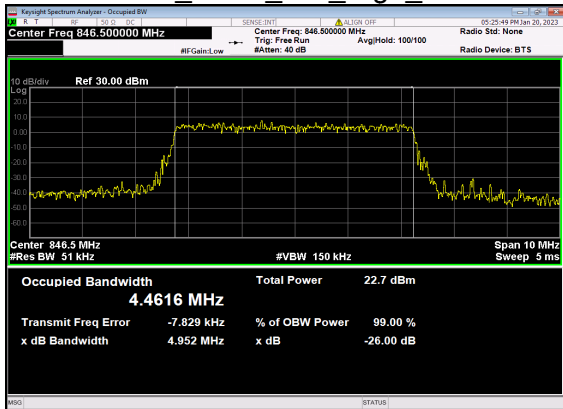
N5(5M)_DFT-s-OFDM_PI_2-BPSK Outer Full High CH



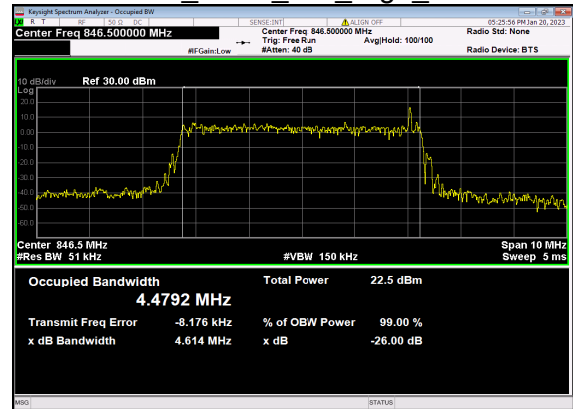
N5(5M)_DFT-s-OFDM QPSK Outer Full High CH



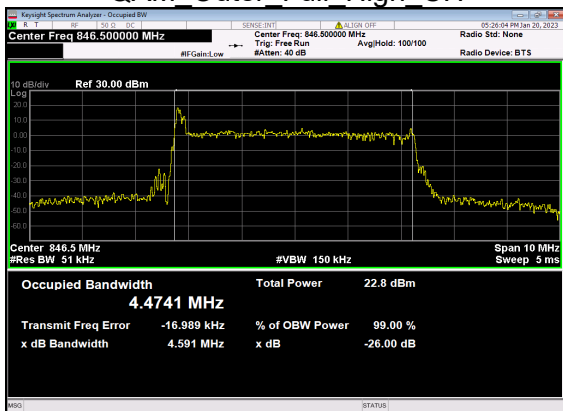
N5(5M)_DFT-s-OFDM_16 QAM Outer Full High CH



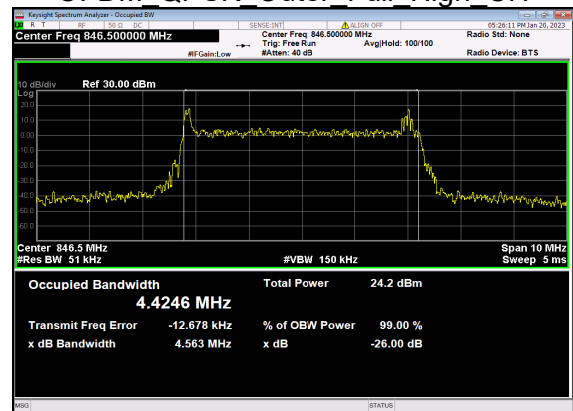
N5(5M)_DFT-s-OFDM_64 QAM Outer Full High CH



N5(5M)_DFT-s-OFDM_256 QAM Outer Full High CH

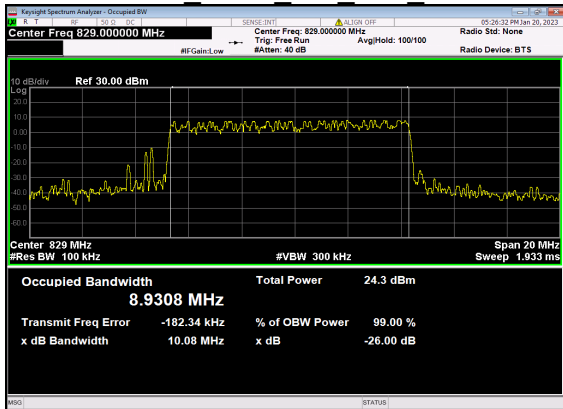


N5(5M)_CP-OFDM QPSK Outer Full High CH

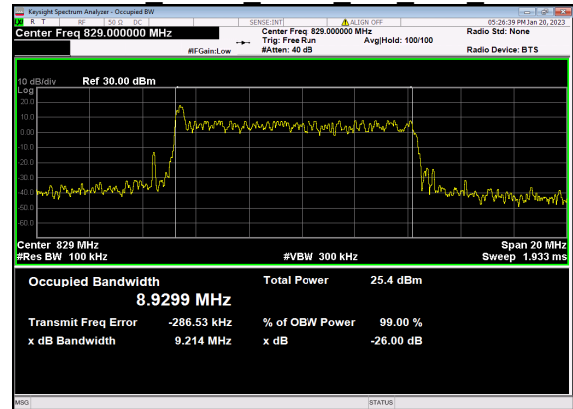




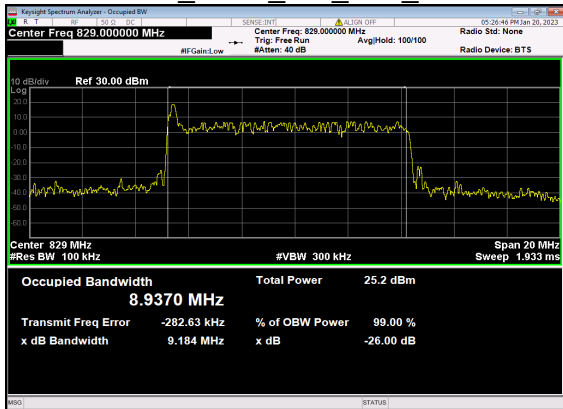
N5(10M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Low CH



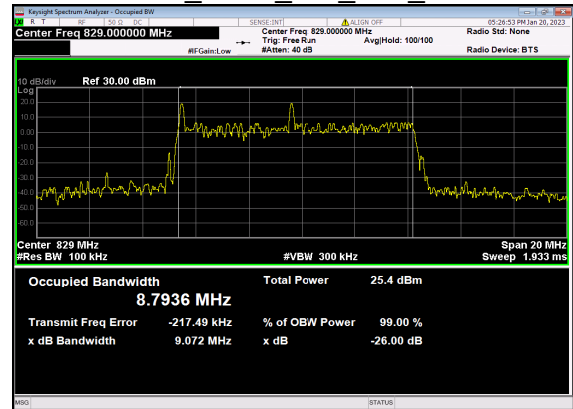
N5(10M)_DFT-s-OFDM QPSK Outer Full Low CH



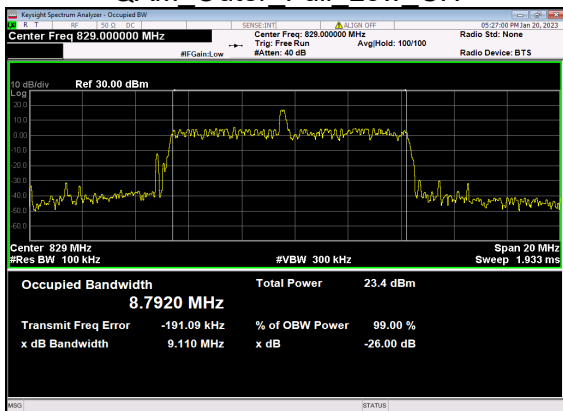
N5(10M)_DFT-s-OFDM_16
QAM Outer Full Low CH



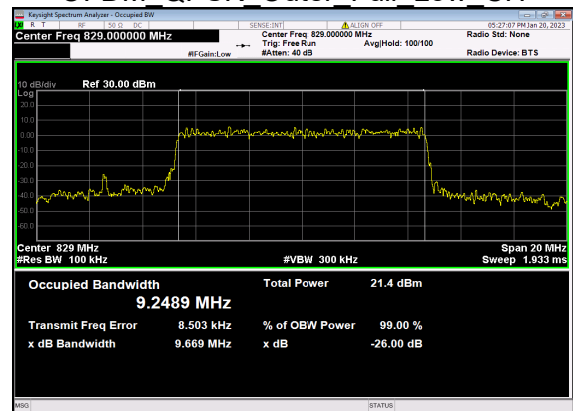
N5(10M)_DFT-s-OFDM_64
QAM Outer Full Low CH



N5(10M)_DFT-s-OFDM_256
QAM Outer Full Low CH

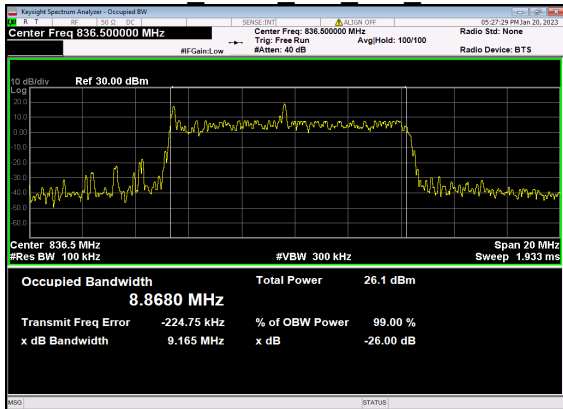


N5(10M)_CP-OFDM QPSK Outer Full Low CH

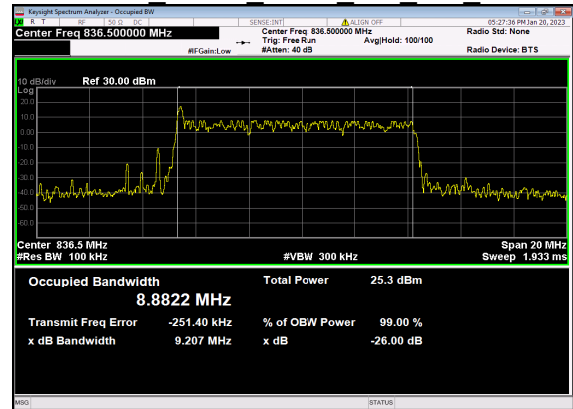




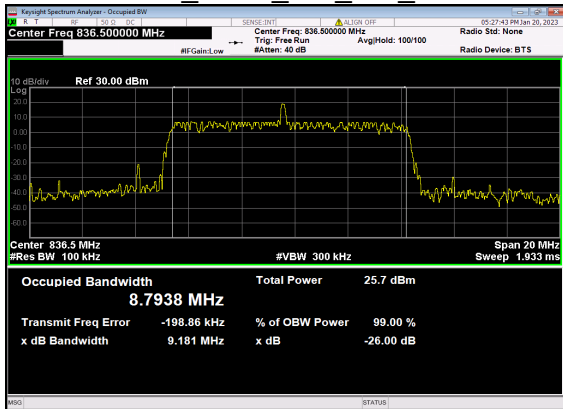
N5(10M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Mid CH



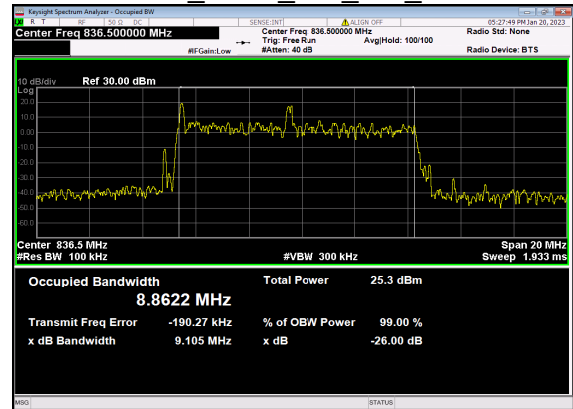
N5(10M)_DFT-s-
OFDM QPSK Outer Full Mid CH



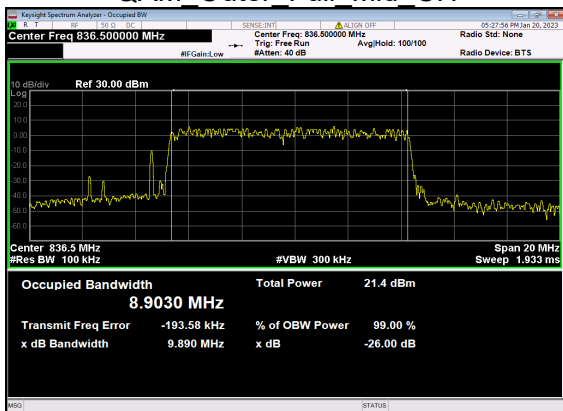
N5(10M)_DFT-s-OFDM_16
QAM Outer Full Mid CH



N5(10M)_DFT-s-OFDM_64
QAM Outer Full Mid CH



N5(10M)_DFT-s-OFDM_256
QAM Outer Full Mid CH



N5(10M)_CP-
OFDM QPSK Outer Full Mid CH

