



REPORT No.: SZ22080079W03

TEST REPORT

APPLICANT : Acer Incorporated

PRODUCT NAME : Acer Connect

MODEL NAME : M3

BRAND NAME : Acer

FCC ID : HLZM3

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	2023-03-09	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Acer Incorporated
Applicant Address:	8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan
Manufacturer:	Acer Incorporated
Manufacturer Address:	8F, 88, Sec. 1, Xintai 5th Rd. Xizhi, New Taipei City 221 Taiwan

1.2. Equipment Under Test (EUT) Description

Product Name:	Acer Connect	
Hardware Version:	L30-MB-V1.1	
Software Version:	ASW2106_UN_1201_T0054	
IMEI:	353818570007045; 353818570007052	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM,64QAM,256QAM
	CP-OFDM	QPSK, 16QAM,64QAM,256QAM
SA Band:	n2, n5, n7, n38, n41, n66, n71, n77, n78	
EN-DC Band:	DC_5A_n2, DC_12A_n2, DC_13A_n2, DC_66A_n2, DC_71A_n2, DC_2A_n7, DC_5A_n7, DC_12A_n7, DC_13A_n7, DC_2A_n66, DC_5A_n66, DC_12A_n66, DC_13A_n66, DC_71A_n66, DC_5A_n38, DC_12A_n38, DC_71A_n38, DC_2A_n41, DC_12A_n41, DC_26A_n41, DC_66A_n41, DC_71A_n41, DC_2A_n77, DC_5A_n77, DC_7A_n77, DC_12A_n77, DC_13A_n77, DC_14A_n77, DC_25A_n77, DC_26A_n77, DC_30A_n77, DC_2A_n78, DC_5A_n78, DC_7A_n78, DC_12A_n78, DC_13A_n78, DC_25A_n78, DC_26A_n78, DC_66A_n78, DC_71A_n78	
Frequency Range:	n2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	n5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	n7	Tx: 2500MHz-2570MHz
		Rx: 2620MHz-2690MHz
	n38	Tx: 2570MHz-2620MHz



		Rx: 2570MHz-2620MHz
	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
	n77 enabling bands	Tx: 3450MHz-3550MHz
		Rx: 3450MHz-3550MHz
	n78 enabling bands	Tx: 3700MHz-3800MHz
		Rx: 3700MHz-3800MHz
Channel Bandwidth	n2	5MHz, 10MHz, 15MHz, 20MHz
	n5	5MHz, 10MHz, 15MHz, 20MHz
	n7	10MHz, 15MHz, 20MHz
	n38	10MHz, 15MHz, 20MHz, 40MHz
	n41	10MHz, 15MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz
	n66	5MHz, 10MHz, 15MHz, 20MHz, 25MHz, 30MHz, 40MHz,
	n71	5MHz, 10MHz, 15MHz, 20MHz
	n77	10MHz, 15MHz, 20MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz
	n78	10MHz, 15MHz, 20MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz
Antenna Type:	Fixed Internal Antenna	
Antenna Gain:	n2	3.62dBi
	n5	3.54dBi
	n7	1.06dBi
	n38	3.09dBi
	n41	3.09dBi
	n66	1.84dBi
	n71	0.84dBi
	n77	2.84dBi
	n78	2.08dBi



Accessory Information:	Battery	
	Brand Name:	N.A
	Model No.:	765395
	Serial No.:	N/A
	Capacity:	6500mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.40V
	Manufacturer:	Huizhou Highpower Technology Co., Ltd.

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

Note 2: 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.

1.3. Maximum ERP/EIRP and Emission Designator

n2						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4475	4M48G7D
	QPSK	23.39	27.01	0.502	4478	4M48G7D
	16QAM	/	/	/	4476	4M48W7D
	64QAM	/	/	/	4474	4M47D7W
	256QAM	/	/	/	4476	4M48D7W
10	PI/2 BPSK	/	/	/	8922	8M92G7D
	QPSK	23.35	26.97	0.498	8929	8M93G7D
	16QAM	/	/	/	8913	8M91W7D
	64QAM	/	/	/	8909	8M91D7W
	256QAM	/	/	/	8904	8M90D7W
15	PI/2 BPSK	/	/	/	13423	13M4G7D
	QPSK	23.45	27.07	0.509	13392	13M4G7D
	16QAM	/	/	/	13405	13M4W7D
	64QAM	/	/	/	13415	13M4D7W
	256QAM	/	/	/	13412	13M4D7W
20	PI/2 BPSK	23.46	27.08	0.511	17890	17M9G7D
	QPSK	23.54	27.16	0.520	17909	17M9G7D
	16QAM	22.47	26.09	0.406	17897	17M9W7D
	64QAM	20.99	24.61	0.289	17879	17M9D7W
	256QAM	19.00	22.62	0.183	17893	17M9D7W

n5						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4512	4M51G7D
	QPSK	23.71	27.25	0.531	4505	4M51G7D
	16QAM	/	/	/	4503	4M50W7D
	64QAM	/	/	/	4502	4M50D7W
	256QAM	/	/	/	4444	4M44D7W
10	PI/2 BPSK	/	/	/	8992	8M99G7D
	QPSK	23.60	27.14	0.518	8979	8M98G7D



	16QAM	/	/	/	9016	9M02W7D
	64QAM	/	/	/	8942	8M94D7W
	256QAM	/	/	/	8960	8M96D7W
15	PI/2 BPSK	/	/	/	13553	13M6G7D
	QPSK	23.65	27.19	0.524	13517	13M5G7D
	16QAM	/	/	/	13419	13M4W7D
	64QAM	/	/	/	13504	13M5D7W
	256QAM	/	/	/	13421	13M4D7W
20	PI/2 BPSK	23.83	27.37	0.546	18116	18M1G7D
	QPSK	23.93	27.47	0.558	18048	18M0G7D
	16QAM	23.01	26.55	0.452	17901	17M9W7D
	64QAM	21.49	25.03	0.318	17908	17M9D7W
	256QAM	19.38	22.92	0.196	17967	18M0D7W

n7						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8905	8M91G7D
	QPSK	24.00	25.06	0.321	8911	8M91G7D
	16QAM	/	/	/	8924	8M92W7D
	64QAM	/	/	/	8929	8M93D7W
	256QAM	/	/	/	8923	8M92D7W
15	PI/2 BPSK	/	/	/	13407	13M4G7D
	QPSK	24.19	25.25	0.335	13426	13M4G7D
	16QAM	/	/	/	13419	13M4W7D
	64QAM	/	/	/	13416	13M4D7W
	256QAM	/	/	/	13401	13M4D7W
20	PI/2 BPSK	24.23	25.29	0.338	17881	17M9G7D
	QPSK	24.40	25.46	0.352	17893	17M9G7D
	16QAM	22.74	23.80	0.240	17953	18M0W7D
	64QAM	21.82	22.88	0.194	17903	17M9D7W
	256QAM	19.59	20.65	0.116	17896	17M9D7W



n38						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8623	8M62G7D
	QPSK	21.11	24.20	0.263	8591	8M59G7D
	16QAM	/	/	/	8584	8M58W7D
	64QAM	/	/	/	8590	8M59D7W
	256QAM	/	/	/	8561	8M56D7W
15	PI/2 BPSK	/	/	/	12865	12M9G7D
	QPSK	21.72	24.81	0.303	12947	12M9G7D
	16QAM	/	/	/	12862	12M9W7D
	64QAM	/	/	/	12874	12M9D7W
	256QAM	/	/	/	12867	12M9D7W
20	PI/2 BPSK	/	/	/	17870	17M9G7D
	QPSK	21.14	24.23	0.265	17789	17M8G7D
	16QAM	/	/	/	17849	17M8W7D
	64QAM	/	/	/	17836	17M8D7W
	256QAM	/	/	/	17866	17M9D7W
40	PI/2 BPSK	22.02	25.11	0.324	35708	35M7G7D
	QPSK	22.20	25.29	0.338	35755	35M8G7D
	16QAM	19.35	22.44	0.175	35791	35M8W7D
	64QAM	18.36	21.45	0.140	35750	35M8D7W
	256QAM	16.25	19.34	0.086	35793	35M8D7W

n41						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8619	8M62G7D
	QPSK	26.93	30.02	1.005	8556	8M56G7D
	16QAM	/	/	/	8593	8M59W7D
	64QAM	/	/	/	8597	8M60D7W
	256QAM	/	/	/	8572	8M57D7W
15	PI/2 BPSK	/	/	/	12855	12M9G7D
	QPSK	26.70	29.79	0.953	12863	12M9G7D
	16QAM	/	/	/	12849	12M8W7D



	64QAM	/	/	/	12834	12M8D7W
	256QAM	/	/	/	12877	12M9D7W
20	PI/2 BPSK	/	/	/	17833	17M8G7D
	QPSK	26.69	29.78	0.951	17759	17M8G7D
	16QAM	/	/	/	17838	17M8W7D
	64QAM	/	/	/	17832	17M8D7W
	256QAM	/	/	/	17856	17M9D7W
30	PI/2 BPSK	/	/	/	26871	26M9G7D
	QPSK	26.80	29.89	0.975	26777	26M8G7D
	16QAM	/	/	/	26825	26M8W7D
	64QAM	/	/	/	26801	26M8D7W
	256QAM	/	/	/	26768	26M8D7W
40	PI/2 BPSK	/	/	/	35802	35M8G7D
	QPSK	26.50	29.59	0.910	35746	35M7G7D
	16QAM	/	/	/	35745	35M7W7D
	64QAM	/	/	/	35769	35M8D7W
	256QAM	/	/	/	35770	35M8D7W
50	PI/2 BPSK	/	/	/	45679	45M7G7D
	QPSK	26.62	29.71	0.935	45790	45M8G7D
	16QAM	/	/	/	45735	45M7W7D
	64QAM	/	/	/	45810	45M8D7W
	256QAM	/	/	/	45753	45M8D7W
60	PI/2 BPSK	/	/	/	57917	57M9G7D
	QPSK	26.56	29.65	0.923	57918	57M9G7D
	16QAM	/	/	/	57884	57M9W7D
	64QAM	/	/	/	57861	57M9D7W
	256QAM	/	/	/	57873	57M9D7W
80	PI/2 BPSK	/	/	/	77039	77M0G7D
	QPSK	26.25	29.34	0.859	77241	77M2G7D
	16QAM	/	/	/	77138	77M1W7D
	64QAM	/	/	/	76929	76M9D7W
	256QAM	/	/	/	77065	77M1D7W
90	PI/2 BPSK	/	/	/	86672	86M7G7D
	QPSK	25.92	29.01	0.796	85608	85M6G7D
	16QAM	/	/	/	85501	85M5W7D
	64QAM	/	/	/	85501	85M5D7W
	256QAM	/	/	/	85615	85M6D7W



100	PI/2 BPSK	26.68	29.77	0.948	96270	96M3G7D
	QPSK	26.95	30.04	1.009	96034	96M0G7D
	16QAM	24.75	27.84	0.608	96234	96M2W7D
	64QAM	23.73	26.82	0.481	96196	96M2D7W
	256QAM	21.50	24.59	0.288	96101	96M1D7W

n66						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4464	4M46G7D
	QPSK	23.47	25.31	0.340	4466	4M47G7D
	16QAM	/	/	/	4482	4M48W7D
	64QAM	/	/	/	4463	4M46D7W
	256QAM	/	/	/	4449	4M45D7W
10	PI/2 BPSK	/	/	/	8908	8M91G7D
	QPSK	23.30	25.14	0.327	8902	8M90G7D
	16QAM	/	/	/	8932	8M93W7D
	64QAM	/	/	/	8908	8M91D7W
	256QAM	/	/	/	8911	8M91D7W
15	PI/2 BPSK	/	/	/	13404	13M4G7D
	QPSK	23.40	25.24	0.334	13391	13M4G7D
	16QAM	/	/	/	13403	13M4W7D
	64QAM	/	/	/	13416	13M4D7W
	256QAM	/	/	/	13400	13M4D7W
20	PI/2 BPSK	/	/	/	17878	17M9G7D
	QPSK	23.33	25.17	0.329	17884	17M9G7D
	16QAM	/	/	/	17877	17M9W7D
	64QAM	/	/	/	17875	17M9D7W
	256QAM	/	/	/	17887	17M9D7W
25	PI/2 BPSK	/	/	/	22895	22M9G7D
	QPSK	23.31	25.15	0.327	22864	22M9G7D
	16QAM	/	/	/	22876	22M9W7D
	64QAM	/	/	/	22871	22M9D7W
	256QAM	/	/	/	22852	22M9D7W
30	PI/2 BPSK	/	/	/	28566	28M6G7D
	QPSK	23.24	25.08	0.322	28599	28M6G7D



	16QAM	/	/	/	28605	28M6W7D
	64QAM	/	/	/	28664	28M7D7W
	256QAM	/	/	/	28605	28M6D7W
40	PI/2 BPSK	23.41	25.25	0.335	38604	38M6G7D
	QPSK	23.45	25.29	0.338	38500	38M5G7D
	16QAM	21.94	23.78	0.239	38628	38M6W7D
	64QAM	20.46	22.30	0.170	38583	38M6D7W
	256QAM	18.93	20.77	0.119	38513	38M5D7W

n71						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
5	PI/2 BPSK	/	/	/	4478	4M48G7D
	QPSK	23.63	24.47	0.280	4463	4M46G7D
	16QAM	/	/	/	4474	4M47W7D
	64QAM	/	/	/	4466	4M47D7W
	256QAM	/	/	/	4449	4M45D7W
10	PI/2 BPSK	/	/	/	8903	8M90G7D
	QPSK	23.35	24.19	0.262	8922	8M92G7D
	16QAM	/	/	/	8916	8M92W7D
	64QAM	/	/	/	8921	8M92D7W
	256QAM	/	/	/	8934	8M93D7W
15	PI/2 BPSK	/	/	/	13402	13M4G7D
	QPSK	23.47	24.31	0.270	13406	13M4G7D
	16QAM	/	/	/	13407	13M4W7D
	64QAM	/	/	/	13437	13M4D7W
	256QAM	/	/	/	13403	13M4D7W
20	PI/2 BPSK	23.68	24.52	0.283	17894	17M9G7D
	QPSK	23.72	24.56	0.286	17890	17M9G7D
	16QAM	22.49	23.33	0.215	17882	17M9W7D
	64QAM	20.98	21.82	0.152	17909	17M9D7W
	256QAM	19.47	20.31	0.107	17900	17M9D7W



n77 (3700 MHz ~ 3980 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8592	8M59G7D
	QPSK	25.75	28.59	0.723	8616	8M62G7D
	16QAM	/	/	/	8605	8M60W7D
	64QAM	/	/	/	8589	8M59D7W
	256QAM	/	/	/	8595	8M60D7W
15	PI/2 BPSK	/	/	/	12837	12M8G7D
	QPSK	25.78	28.62	0.728	12843	12M8G7D
	16QAM	/	/	/	12893	12M9W7D
	64QAM	/	/	/	12865	12M9D7W
	256QAM	/	/	/	12908	12M9D7W
20	PI/2 BPSK	/	/	/	17827	17M8G7D
	QPSK	25.65	28.49	0.706	17865	17M9G7D
	16QAM	/	/	/	17869	17M9W7D
	64QAM	/	/	/	17860	17M9D7W
	256QAM	/	/	/	17866	17M9D7W
40	PI/2 BPSK	/	/	/	35786	35M8G7D
	QPSK	25.33	28.17	0.656	35783	35M8G7D
	16QAM	/	/	/	35762	35M8W7D
	64QAM	/	/	/	35746	35M7D7W
	256QAM	/	/	/	35787	35M8D7W
50	PI/2 BPSK	/	/	/	45742	45M7G7D
	QPSK	25.57	28.41	0.693	45729	45M7G7D
	16QAM	/	/	/	45828	45M8W7D
	64QAM	/	/	/	45726	45M7D7W
	256QAM	/	/	/	45806	45M8D7W
60	PI/2 BPSK	/	/	/	57825	57M8G7D
	QPSK	25.33	28.17	0.656	57956	58M0G7D
	16QAM	/	/	/	57845	57M8W7D
	64QAM	/	/	/	57815	57M8D7W
	256QAM	/	/	/	57871	57M9D7W
80	PI/2 BPSK	/	/	/	77047	77M0G7D
	QPSK	25.53	28.37	0.687	77003	77M0G7D
	16QAM	/	/	/	76981	77M0W7D

	64QAM	/	/	/	77110	77M1D7W
	256QAM	/	/	/	76996	77M0D7W
90	PI/2 BPSK	/	/	/	85593	85M6G7D
	QPSK	25.08	27.92	0.619	85729	85M7G7D
	16QAM	/	/	/	85784	85M8W7D
	64QAM	/	/	/	85523	85M5D7W
	256QAM	/	/	/	85517	85M5D7W
100	PI/2 BPSK	25.84	28.68	0.738	96317	96M3G7D
	QPSK	25.93	28.77	0.753	96047	96M0G7D
	16QAM	23.71	26.55	0.452	96464	96M5W7D
	64QAM	22.27	25.11	0.324	96293	96M3D7W
	256QAM	20.66	23.50	0.224	96257	96M3D7W

n77 (3450 MHz ~ 3550 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	8608	8M61G7D
	QPSK	25.37	28.21	0.662	8573	8M57G7D
	16QAM	/	/	/	8567	8M57W7D
	64QAM	/	/	/	8586	8M59D7W
	256QAM	/	/	/	8561	8M56D7W
15	PI/2 BPSK	/	/	/	12814	12M8G7D
	QPSK	25.34	28.18	0.658	12886	12M9G7D
	16QAM	/	/	/	12921	12M9W7D
	64QAM	/	/	/	12870	12M9D7W
	256QAM	/	/	/	12858	12M9D7W
20	PI/2 BPSK	/	/	/	17806	17M8G7D
	QPSK	25.30	28.14	0.652	17829	17M8G7D
	16QAM	/	/	/	17820	17M8W7D
	64QAM	/	/	/	17831	17M8D7W
	256QAM	/	/	/	17859	17M9D7W
40	PI/2 BPSK	/	/	/	35732	35M7G7D
	QPSK	25.08	27.92	0.619	35753	35M8G7D
	16QAM	/	/	/	35712	35M7W7D
	64QAM	/	/	/	35789	35M8D7W
	256QAM	/	/	/	35849	35M8D7W



50	PI/2 BPSK	/	/	/	45741	45M7G7D
	QPSK	25.29	28.13	0.650	45778	45M8G7D
	16QAM	/	/	/	45726	45M7W7D
	64QAM	/	/	/	45820	45M8D7W
	256QAM	/	/	/	45740	45M7D7W
60	PI/2 BPSK	/	/	/	57874	57M9G7D
	QPSK	25.21	28.05	0.638	57822	57M8G7D
	16QAM	/	/	/	57860	57M9W7D
	64QAM	/	/	/	57842	57M8D7W
	256QAM	/	/	/	57861	57M9D7W
80	PI/2 BPSK	/	/	/	77080	77M1G7D
	QPSK	24.95	27.79	0.601	77012	77M0G7D
	16QAM	/	/	/	77176	77M2W7D
	64QAM	/	/	/	77115	77M1D7W
	256QAM	/	/	/	76965	77M0D7W
90	PI/2 BPSK	/	/	/	85708	85M7G7D
	QPSK	24.83	27.67	0.585	85733	85M7G7D
	16QAM	/	/	/	85589	85M6W7D
	64QAM	/	/	/	85680	85M7D7W
	256QAM	/	/	/	85763	85M8D7W
100	PI/2 BPSK	25.45	28.29	0.675	96104	96M1G7D
	QPSK	25.47	28.31	0.678	96127	96M1G7D
	16QAM	23.74	26.58	0.455	96086	96M1W7D
	64QAM	22.39	25.23	0.333	96079	96M1D7W
	256QAM	20.63	23.47	0.222	96048	96M0D7W

n78 (3700 MHz ~ 3800 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	/	/
	QPSK	25.71	27.79	0.601	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
15	PI/2 BPSK	/	/	/	/	/
	QPSK	25.57	27.65	0.582	/	/



	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
20	PI/2 BPSK	/	/	/	/	/
	QPSK	25.51	27.59	0.574	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	25.28	27.36	0.545	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	25.34	27.42	0.552	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	25.21	27.29	0.536	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/
	QPSK	24.93	27.01	0.502	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	24.56	26.64	0.461	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	25.46	27.54	0.568	/	/
	QPSK	25.65	27.73	0.593	/	/
	16QAM	23.01	25.09	0.323	/	/
	64QAM	21.66	23.74	0.237	/	/



	256QAM	19.95	22.03	0.160	/	/
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n78 (3450 MHz ~ 3550 MHz)						
Bandwidth (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Average (W)	99% BW (kHz)	Emission Designator
10	PI/2 BPSK	/	/	/	/	/
	QPSK	25.47	27.55	0.569	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
15	PI/2 BPSK	/	/	/	/	/
	QPSK	25.41	27.49	0.561	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
20	PI/2 BPSK	/	/	/	/	/
	QPSK	25.45	27.53	0.566	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
40	PI/2 BPSK	/	/	/	/	/
	QPSK	25.23	27.31	0.538	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
50	PI/2 BPSK	/	/	/	/	/
	QPSK	25.42	27.50	0.562	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
60	PI/2 BPSK	/	/	/	/	/
	QPSK	25.40	27.48	0.560	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
80	PI/2 BPSK	/	/	/	/	/



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	QPSK	25.21	27.29	0.536	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
90	PI/2 BPSK	/	/	/	/	/
	QPSK	25.03	27.11	0.514	/	/
	16QAM	/	/	/	/	/
	64QAM	/	/	/	/	/
	256QAM	/	/	/	/	/
100	PI/2 BPSK	25.38	27.46	0.557	/	/
	QPSK	25.45	27.53	0.566	/	/
	16QAM	23.76	25.84	0.384	/	/
	64QAM	22.34	24.42	0.277	/	/
	256QAM	20.45	22.53	0.179	/	/



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



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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046, 22.913(a)(5) 24.232(c) 27.50(d)(4) 27.50(h)(2) 27.50(j)(3) 27.50(k)(3)	Transmitter Conducted Output Power and ERP/EIRP	2022/12/08	Li Huaijie	PASS	Nodeviation
2.1049	Occupied Bandwidth	2022/11/11- 2022/12/11	Li Huaijie	PASS	Nodeviation
2.1055 22.355 24.238(a)	Frequency Stability	2022/12/12	Li Huaijie	PASS	Nodeviation
24.232(d) 27.50(d)(5) 27.50(j)(4) 27.50(k)(4)	Peak to Average Radio	2022/12/12- 2022/12/16	Li Huaijie	PASS	Nodeviation
2.1051, 22.917(a) 24.238(a) (b) 27.53(h) 27.53(l) (2) 27.53(m) (4) 27.53(n) (2)	Conducted Spurious Emissions	2022/12/05- 2022/12/13	Li Huaijie	PASS	Nodeviation
2.1051, 22.917(a) 24.238(a) (b) 27.53(h) 27.53(l) (2) 27.53(m) (4) 27.53(n) (2)	Band Edge	2022/11/18- 2022/12/16	Li Huaijie	PASS	Nodeviation
2.1051, 22.917(a) 24.238(a) (b) 27.53(h) 27.53(l) (2) 27.53(m) (4) 27.53(n) (2)	Radiated Spurious Emissions	2022/12/26	Gao Jianrou	PASS	Nodeviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipment. The ref offset 5.5dB contains two parts that cable loss 5.5dB.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



1.5. Environmental Conditions

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

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



2. 47 CFR Part 2, Part 22H, Part 24 and Part 27 L&M&O&Q Requirements

2.1. Transmitter Conducted Output Power And ERP/EIRP

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

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

According to FCC section 27.50 (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.

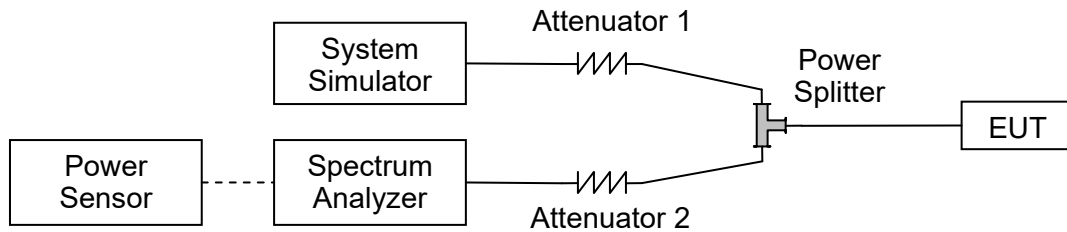
According to FCC section 27.50 (d)(4) for n66, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

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

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

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

2.1.2. Test Description



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

2.1.3. Test procedure

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

$EIRP \text{ (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

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	23.43	23.02	23.16
20		1	53	23.46	23.12	23.23
20		1	104	23.25	23.16	23.02
20		50	1	22.95	22.72	22.55
20		50	25	23.42	22.36	23.20
20		50	50	22.85	22.74	22.62
20		100	0	22.94	22.68	22.62
20	DFT-s-OFDM QPSK	1	1	23.46	23.54	23.30
20		1	53	23.34	23.29	23.21
20		1	104	23.13	23.21	22.94
20		50	1	23.08	23.15	22.75
20		50	25	23.51	23.25	23.22
20		50	50	22.45	22.18	21.66
20		100	0	22.49	22.15	22.10
20	DFT-s-OFDM 16QAM	1	1	22.47	22.12	22.07
20	DFT-s-OFDM 64QAM	1	1	20.99	20.63	20.56
20	DFT-s-OFDM 256QAM	1	1	19.00	18.64	18.59
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	23.45	23.04	23.13
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	23.35	22.93	23.06
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.39	23.12	23.24
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	21.64	21.53	21.56



20	CP-OFDM 16QAM	1	1	21.35	21.18	21.26
20	CP-OFDM 64QAM	1	1	20.45	20.22	20.36
20	CP-OFDM 256QAM	1	1	16.87	16.65	16.72

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	23.58	23.60	20.68
20		1	53	23.76	23.83	23.64
20		1	104	23.66	23.61	23.18
20		50	1	23.21	23.27	23.20
20		50	25	23.80	22.19	23.82
20		50	50	23.28	23.31	23.26
20		100	0	23.25	23.29	13.32
20	DFT-s-OFDM QPSK	1	1	23.72	23.93	23.66
20		1	53	23.82	23.89	23.79
20		1	104	23.70	23.73	23.69
20		50	1	22.67	22.76	22.74
20		50	25	23.84	23.83	23.85
20		50	50	22.80	22.79	22.80
20		100	0	22.74	22.79	22.80
20	DFT-s-OFDM 16QAM	1	1	23.01	22.51	22.75
20	DFT-s-OFDM 64QAM	1	1	21.17	20.93	21.49
20	DFT-s-OFDM 256QAM	1	1	19.38	19.05	19.31
Channel				166300	167300	168300
Frequency (MHz)				831.5	836.5	841.5
15	DFT-s-OFDM QPSK	1	1	23.58	23.65	23.33
Channel				165800	167300	168800
Frequency (MHz)				829	836.5	844
10	DFT-s-OFDM QPSK	1	1	23.60	22.96	22.10
Channel				165300	167300	169300



Frequency (MHz)				826.5	836.5	846.5
5	DFT-s-OFDM QPSK	1	1	20.80	23.27	23.71
Channel				166800	167300	167800
Frequency (MHz)				834	836.5	839
20	CP-OFDM QPSK	1	1	22.03	21.62	22.12
20	CP-OFDM 16QAM	1	1	21.55	21.64	21.70
20	CP-OFDM 64QAM	1	1	20.16	20.12	20.14
20	CP-OFDM 256QAM	1	1	17.22	17.29	16.40

n7						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	21.63	21.28	21.39
20		1	53	24.12	21.62	21.52
20		1	104	23.45	21.44	21.33
20		50	1	23.67	21.48	20.24
20		50	25	24.23	21.02	20.03
20		50	50	23.84	21.03	20.26
20		100	0	23.74	19.37	20.68
20		1	1	24.26	24.40	24.22
20	DFT-s-OFDM QPSK	1	53	24.20	23.54	21.62
20		1	104	22.94	23.93	20.62
20		50	1	23.51	23.83	23.69
20		50	25	23.41	23.82	23.69
20		50	50	23.30	23.11	22.92
20		100	0	23.04	23.16	23.07
20	DFT-s-OFDM 16QAM	1	1	22.04	22.74	21.05
20	DFT-s-OFDM 64QAM	1	1	21.82	21.32	21.02
20	DFT-s-OFDM 256QAM	1	1	19.10	19.59	19.03
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5



15	DFT-s-OFDM QPSK	1	1	24.19	24.12	24.06
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	22.86	24.00	22.47
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	CP-OFDM QPSK	1	1	19.59	22.62	19.91
20	CP-OFDM 16QAM	1	1	20.22	22.11	20.57
20	CP-OFDM 64QAM	1	1	20.09	20.49	20.23
20	CP-OFDM 256QAM	1	1	17.57	17.88	18.33

n38						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	22.02	20.55	20.44
40		1	53	21.64	20.89	20.57
40		1	105	20.63	20.43	19.92
40		50	1	20.85	20.69	20.35
40		50	25	21.42	20.92	20.57
40		50	50	20.60	20.29	19.93
40		100	0	20.77	20.89	20.14
40	DFT-s-OFDM QPSK	1	1	22.05	22.20	22.09
40		1	53	21.05	21.41	21.03
40		1	105	19.85	20.19	19.85
40		50	1	19.75	20.03	19.46
40		50	25	21.00	21.75	21.35
40		50	50	19.92	19.84	19.85
40		100	0	20.24	19.82	19.47
40	DFT-s-OFDM 16QAM	1	1	19.35	19.19	18.96
40	DFT-s-OFDM 64QAM	1	1	18.36	18.23	17.65
40	DFT-s-OFDM 256QAM	1	1	16.25	15.91	15.43



Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	20.36	20.81	21.14
Channel				515500	519000	522500
Frequency (MHz)				2577.5	2595	2612.5
15	DFT-s-OFDM QPSK	1	1	20.38	21.72	20.38
Channel				515000	519000	523000
Frequency (MHz)				2575	2595	2615
10	DFT-s-OFDM QPSK	1	1	21.11	20.86	20.31
Channel				516000	519000	522000
Frequency (MHz)				2590	2595	2600
40	CP-OFDM QPSK	1	1	18.94	19.04	19.39
40	CP-OFDM 16QAM	1	1	18.85	18.63	18.11
40	CP-OFDM 64QAM	1	1	18.77	17.59	16.54
40	CP-OFDM 256QAM	1	1	15.48	14.74	14.40

n41						
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	25.08	25.22	25.68
100		1	136	25.84	26.51	26.68
100		1	272	23.20	23.26	23.16
100		135	1	25.02	25.98	26.31
100		135	67	25.62	26.65	26.63
100		135	136	25.10	26.39	26.51
100		270	0	25.09	26.16	26.35
100	DFT-s-OFDM QPSK	1	1	26.66	26.95	26.44
100		1	136	25.89	26.35	26.65
100		1	272	23.07	23.28	23.18
100		135	1	26.08	26.86	26.76



100		135	67	25.63	26.66	26.81
100		135	136	25.02	25.89	26.00
100		270	0	25.01	25.66	25.87
100	DFT-s-OFDM 16QAM	1	1	24.03	24.13	24.75
100	DFT-s-OFDM 64QAM	1	1	22.69	23.06	23.73
100	DFT-s-OFDM 256QAM	1	1	21.02	21.16	21.50
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	24.57	25.44	25.92
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	24.89	25.67	26.25
Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.14	26.25	26.56
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	25.31	26.53	26.62
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	24.88	26.33	26.50
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	25.27	26.39	26.80
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	25.24	26.69	26.33
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	25.47	26.33	26.70
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685



10	DFT-s-OFDM QPSK	1	1	25.43	26.71	26.93
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	23.49	23.71	24.36
100	CP-OFDM 16QAM	1	1	23.01	23.25	24.10
100	CP-OFDM 64QAM	1	1	21.60	22.17	22.54
100	CP-OFDM 256QAM	1	1	19.03	19.03	19.54

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	20.52	22.63	22.98
40		1	53	22.98	23.18	23.36
40		1	104	23.32	23.41	23.36
40		53	1	22.68	22.63	22.90
40		53	26	22.81	23.02	23.15
40		53	52	22.98	23.20	23.31
40		106	0	22.18	22.15	22.39
40		1	1	23.16	23.45	23.21
40	DFT-s-OFDM QPSK	1	53	23.00	23.34	23.24
40		1	104	23.35	23.21	23.31
40		53	1	22.67	22.85	22.87
40		53	26	22.78	23.17	23.13
40		53	52	23.04	23.12	23.25
40		106	0	21.63	21.72	21.81
40		1	1	21.94	21.79	21.91
40	DFT-s-OFDM 16QAM	1	1	21.94	21.79	21.91
40	DFT-s-OFDM 64QAM	1	1	19.92	20.29	20.46
40	DFT-s-OFDM 256QAM	1	1	18.67	18.81	18.93
Channel				345000	349000	353000



Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	22.91	23.16	23.24
Channel				344500	349000	353500
Frequency (MHz)				1722.5	1745	1767.5
25	DFT-s-OFDM QPSK	1	1	23.01	23.25	23.31
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.04	23.33	23.27
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	23.16	23.40	23.16
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.04	23.30	23.08
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.18	23.47	23.30
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	21.32	21.33	21.70
40	CP-OFDM 16QAM	1	1	21.04	20.84	21.43
40	CP-OFDM 64QAM	1	1	19.59	19.63	19.67
40	CP-OFDM 256QAM	1	1	16.73	16.67	16.86

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	23.41	23.44	23.51
20		1	53	23.47	23.56	23.64
20		1	104	23.45	23.52	23.57
20		50	1	22.87	22.98	23.12
20		50	25	23.50	23.55	23.68
20		50	50	23.14	23.06	23.27
20		100	0	22.96	22.99	23.20
20	DFT-s-OFDM QPSK	1	1	23.52	23.72	23.57
20		1	53	23.47	23.49	23.52
20		1	104	23.45	23.52	23.59
20		50	1	22.36	22.42	22.62
20		50	25	23.54	23.56	23.71
20		50	50	22.44	22.54	22.78
20		100	0	22.47	22.50	22.73
20	DFT-s-OFDM 16QAM	1	1	22.41	22.36	22.49
20	DFT-s-OFDM 64QAM	1	1	20.97	20.89	20.98
20	DFT-s-OFDM 256QAM	1	1	19.41	19.36	19.47
Channel				134100	136100	138100
Frequency (MHz)				670.5	680.5	690.5
15	DFT-s-OFDM QPSK	1	1	23.42	23.41	23.47
Channel				133600	136100	138600
Frequency (MHz)				668	680.5	693
10	DFT-s-OFDM QPSK	1	1	23.34	23.29	23.35
Channel				133100	136100	139100
Frequency (MHz)				665.5	680.5	695.5
5	DFT-s-OFDM QPSK	1	1	23.63	23.47	23.58



Channel				134600	136100	137600
Frequency (MHz)				673	680.5	688
20	CP-OFDM QPSK	1	1	21.86	21.83	21.99
20	CP-OFDM 16QAM	1	1	21.44	21.42	21.46
20	CP-OFDM 64QAM	1	1	20.07	20.15	20.15
20	CP-OFDM 256QAM	1	1	17.30	17.21	17.30

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	24.85	24.31	24.64
100		1	136	25.84	25.25	25.54
100		1	271	25.32	24.12	24.45
100		135	1	25.34	24.57	24.84
100		135	67	25.78	25.23	25.57
100		135	136	25.55	24.50	24.81
100		270	0	25.43	24.51	24.82
100	DFT-s-OFDM QPSK	1	1	25.61	25.93	25.56
100		1	136	25.77	25.25	25.62
100		1	271	25.34	24.13	24.49
100		135	1	25.23	25.56	25.50
100		135	67	25.11	25.26	25.47
100		135	136	23.81	23.88	24.20
100		270	0	24.01	23.98	24.10
100	DFT-s-OFDM 16QAM	1	1	23.05	23.35	23.71
100	DFT-s-OFDM 64QAM	1	1	21.72	21.98	22.27
100	DFT-s-OFDM 256QAM	1	1	20.55	20.33	20.66
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995



90	DFT-s-OFDM QPSK	1	1	25.08	24.49	24.71
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.53	24.68	24.95
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.33	24.98	25.09
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.57	24.80	25.15
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.33	24.81	24.77
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.65	25.13	25.15
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.78	25.19	25.20
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.75	25.20	25.41
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	22.43	22.93	23.17
100	CP-OFDM 16QAM	1	1	21.80	22.37	22.62



100	CP-OFDM 64QAM	1	1	20.29	20.83	21.08
100	CP-OFDM 256QAM	1	1	17.74	18.34	18.55

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	/	24.71	/
100		1	136	/	25.40	/
100		1	271	/	23.99	/
100		135	1	/	24.51	/
100		135	67	/	25.45	/
100		135	136	/	24.85	/
100		270	0	/	24.88	/
100	DFT-s-OFDM QPSK	1	1	/	25.47	/
100		1	136	/	25.35	/
100		1	271	/	24.01	/
100		135	1	/	25.39	/
100		135	67	/	25.36	/
100		135	136	/	24.04	/
100		270	0	/	24.19	/
100	DFT-s-OFDM 16QAM	1	1	/	23.74	/
100	DFT-s-OFDM 64QAM	1	1	/	22.39	/
100	DFT-s-OFDM 256QAM	1	1	/	20.63	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.76	24.83	24.81
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510



80	DFT-s-OFDM QPSK	1	1	24.85	24.82	24.95
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.02	25.12	25.21
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.15	25.09	25.29
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	24.90	25.04	25.08
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.21	25.30	25.25
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.34	25.33	25.23
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.37	25.36	25.24
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.25	/
100	CP-OFDM 16QAM	1	1	/	22.66	/
100	CP-OFDM 64QAM	1	1	/	21.53	/
100	CP-OFDM 256QAM	1	1	/	18.62	/



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	/	24.02	/
100		1	136	/	25.46	/
100		1	271	/	24.46	/
100		135	1	/	24.57	/
100		135	67	/	25.37	/
100		135	136	/	24.69	/
100		270	0	/	24.59	/
100	DFT-s-OFDM QPSK	1	1	/	25.65	/
100		1	136	/	25.39	/
100		1	271	/	24.44	/
100		135	1	/	25.10	/
100		135	67	/	25.07	/
100		135	136	/	24.16	/
100		270	0	/	24.00	/
100	DFT-s-OFDM 16QAM	1	1	/	23.01	/
100	DFT-s-OFDM 64QAM	1	1	/	21.66	/
100	DFT-s-OFDM 256QAM	1	1	/	19.95	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	24.24	24.25	24.56
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	24.39	24.44	24.93
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	24.61	24.81	25.21



Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	24.47	24.91	25.34
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	20.87	24.77	25.28
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	24.75	25.19	25.51
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	24.74	25.23	25.57
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	24.60	25.24	25.71
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	22.49	/
100	CP-OFDM 16QAM	1	1	/	21.88	/
100	CP-OFDM 64QAM	1	1	/	20.41	/
100	CP-OFDM 256QAM	1	1	/	17.86	/

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	/	24.77	/
100		1	136	/	25.37	/
100		1	271	/	24.15	/



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100		135	1	/	24.94	/
100		135	67	/	25.38	/
100		135	136	/	24.73	/
100		270	0	/	24.84	/
100	DFT-s-OFDM QPSK	1	1	/	25.45	/
100		1	136	/	24.36	/
100		1	271	/	24.19	/
100		135	1	/	25.37	/
100		135	67	/	25.35	/
100		135	136	/	24.13	/
100		270	0	/	24.33	/
100	DFT-s-OFDM 16QAM	1	1	/	23.76	/
100	DFT-s-OFDM 64QAM	1	1	/	22.34	/
100	DFT-s-OFDM 256QAM	1	1	/	20.45	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.90	24.95	25.03
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.21	25.15	25.15
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.14	25.23	25.40
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.24	25.39	25.42
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98



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40	DFT-s-OFDM QPSK	1	1	24.94	25.17	25.23
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.19	25.45	25.40
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.30	25.41	25.36
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.42	25.47	25.42
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.41	/
100	CP-OFDM 16QAM	1	1	/	22.79	/
100	CP-OFDM 64QAM	1	1	/	22.02	/
100	CP-OFDM 256QAM	1	1	/	18.46	/



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	22.56	22.04	22.05
20		1	53	22.56	23.17	22.40
20		1	104	22.60	22.94	22.80
20		50	1	22.58	23.23	22.38
20		50	25	22.61	23.14	22.36
20		50	50	22.60	23.14	22.37
20		100	0	22.61	23.16	22.40
20	DFT-s-OFDM QPSK	1	1	23.47	23.50	23.49
20		1	53	22.44	23.26	23.06
20		1	104	22.43	23.27	23.02
20		50	1	22.46	22.72	22.35
20		50	25	22.11	22.75	22.09
20		50	50	22.13	22.75	22.05
20		100	0	22.11	22.72	22.08
20	DFT-s-OFDM 16QAM	1	1	22.57	22.27	22.01
20	DFT-s-OFDM 64QAM	1	1	22.09	22.21	22.03
20	DFT-s-OFDM 256QAM	1	1	20.46	21.30	21.06
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.05	22.77	22.03
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.04	22.76	22.05
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.43	23.49	21.83
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	22.76	22.32	22.79



20	CP-OFDM 16QAM	1	1	21.09	21.06	21.72
20	CP-OFDM 64QAM	1	1	19.56	19.82	19.39
20	CP-OFDM 256QAM	1	1	19.43	19.31	19.14

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	22.55	22.57	22.60
20		1	53	22.59	23.52	22.39
20		1	104	22.55	22.94	22.80
20		50	1	22.59	23.24	22.37
20		50	25	22.62	23.13	22.37
20		50	50	22.61	23.48	22.37
20		100	0	22.61	23.15	22.40
20	DFT-s-OFDM QPSK	1	1	23.45	23.53	23.49
20		1	53	23.06	23.32	23.08
20		1	104	22.46	23.34	23.08
20		50	1	22.10	22.73	22.03
20		50	25	22.12	22.74	22.06
20		50	50	22.10	22.75	22.08
20		100	0	22.10	22.74	22.01
20	DFT-s-OFDM 16QAM	1	1	21.84	22.42	22.21
20	DFT-s-OFDM 64QAM	1	1	20.59	21.32	21.14
20	DFT-s-OFDM 256QAM	1	1	19.63	19.85	19.75
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.66	22.80	22.74
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.86	23.50	22.91
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5



5	DFT-s-OFDM QPSK	1	1	23.41	23.48	23.40
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	23.42	23.32	23.09
20	CP-OFDM 16QAM	1	1	22.10	21.56	22.57
20	CP-OFDM 64QAM	1	1	19.58	19.78	19.39
20	CP-OFDM 256QAM	1	1	19.31	19.24	19.12

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	22.56	22.54	22.78
20		1	53	22.58	23.48	22.38
20		1	104	22.58	22.92	22.78
20		50	1	22.60	23.25	22.36
20		50	25	22.62	23.22	22.37
20		50	50	22.62	23.18	22.35
20		100	0	22.54	23.24	22.38
20	DFT-s-OFDM QPSK	1	1	23.44	23.50	23.49
20		1	53	22.46	23.33	23.15
20		1	104	22.46	23.33	23.16
20		50	1	23.30	23.44	23.26
20		50	25	22.11	22.74	22.07
20		50	50	22.13	22.74	22.08
20		100	0	22.12	22.75	22.10
20	DFT-s-OFDM 16QAM	1	1	22.55	22.40	22.20
20	DFT-s-OFDM 64QAM	1	1	21.27	21.75	21.70
20	DFT-s-OFDM 256QAM	1	1	20.82	21.32	21.14
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.57	22.77	22.53



Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.79	23.41	23.14
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.42	23.46	22.83
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	23.15	23.13	23.04
20	CP-OFDM 16QAM	1	1	22.11	21.79	22.42
20	CP-OFDM 64QAM	1	1	19.58	19.79	19.37
20	CP-OFDM 256QAM	1	1	19.40	19.21	19.42

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	22.56	22.56	22.82
20		1	53	22.56	22.74	22.39
20		1	104	22.61	22.36	22.79
20		50	1	22.60	23.16	22.38
20		50	25	22.62	23.10	22.37
20		50	50	22.60	23.18	22.38
20		100	0	22.61	23.19	22.42
20		1	1	23.50	23.51	23.48
20	DFT-s-OFDM QPSK	1	53	22.48	23.32	23.15
20		1	104	22.48	23.31	23.09
20		50	1	22.11	22.74	21.89
20		50	25	22.13	22.73	21.87
20		50	50	22.12	22.74	21.90
20		100	0	22.12	22.71	21.88
20	DFT-s-OFDM 16QAM	1	1	21.54	22.39	21.77
20	DFT-s-OFDM 64QAM	1	1	20.16	20.98	20.78



20	DFT-s-OFDM 256QAM	1	1	20.48	21.30	21.14
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.81	23.43	22.91
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.08	22.79	22.06
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.22	23.43	22.83
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	22.32	22.72	22.72
20	CP-OFDM 16QAM	1	1	20.43	20.76	20.05
20	CP-OFDM 64QAM	1	1	19.57	19.78	19.38
20	CP-OFDM 256QAM	1	1	19.44	19.24	19.09

DC_71A_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	22.57	22.63	22.55
20		1	53	22.60	22.73	22.57
20		1	104	22.57	22.54	22.80
20		50	1	22.63	23.43	22.38
20		50	25	22.67	23.23	22.37
20		50	50	22.66	23.20	22.40
20		100	0	22.67	23.12	22.40
20	DFT-s-OFDM QPSK	1	1	23.47	23.50	23.33
20		1	53	22.46	23.27	23.16
20		1	104	23.41	23.28	23.20
20		50	1	23.44	23.45	23.42



20		50	25	22.14	22.75	22.06
20		50	50	22.13	22.74	22.07
20		100	0	22.14	22.75	22.10
20	DFT-s-OFDM 16QAM	1	1	22.05	22.40	22.21
20	DFT-s-OFDM 64QAM	1	1	20.42	20.99	20.78
20	DFT-s-OFDM 256QAM	1	1	20.44	21.31	21.12
Channel				371500	376000	380500
Frequency (MHz)				1857.5	1880	1902.5
15	DFT-s-OFDM QPSK	1	1	22.14	22.79	22.05
Channel				371000	376000	381000
Frequency (MHz)				1855	1880	1905
10	DFT-s-OFDM QPSK	1	1	22.86	22.79	22.11
Channel				370500	376000	381500
Frequency (MHz)				1852.5	1880	1907.5
5	DFT-s-OFDM QPSK	1	1	23.44	23.41	22.84
Channel				372000	376000	380000
Frequency (MHz)				1860	1880	1900
20	CP-OFDM QPSK	1	1	23.32	22.73	22.85
20	CP-OFDM 16QAM	1	1	22.46	21.18	21.07
20	CP-OFDM 64QAM	1	1	20.23	20.11	20.37
20	CP-OFDM 256QAM	1	1	19.61	19.58	19.41

DC_2A_n7						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	23.70	24.01	24.00
20		1	53	23.70	23.99	23.99
20		1	104	23.70	24.03	23.98
20		50	1	23.48	23.89	23.66
20		50	25	23.63	23.89	23.67



20	DFT-s-OFDM QPSK	50	50	23.62	23.89	23.65
20		100	0	23.48	23.90	23.66
20		1	1	24.31	24.38	24.35
20		1	53	23.56	23.84	23.88
20		1	104	23.56	23.83	23.87
20		50	1	23.11	23.39	23.12
20		50	25	23.11	23.38	23.15
20		50	50	23.10	23.38	23.12
20		100	0	23.12	23.39	23.12
20						
20	DFT-s-OFDM 16QAM	1	1	23.05	23.39	23.10
20	DFT-s-OFDM 64QAM	1	1	21.45	22.00	21.91
20	DFT-s-OFDM 256QAM	1	1	19.64	20.15	20.12
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	23.59	24.10	23.90
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	23.52	23.99	23.63
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	CP-OFDM QPSK	1	1	22.55	22.70	22.47
20	CP-OFDM 16QAM	1	1	21.77	22.05	21.83
20	CP-OFDM 64QAM	1	1	20.25	20.56	20.43
20	CP-OFDM 256QAM	1	1	17.65	17.96	18.06

DC_5A_n7						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	23.69	23.99	23.97
20		1	53	23.70	24.01	24.00
20		1	104	23.70	24.00	23.99



20		50	1	23.62	23.90	23.67
20		50	25	23.47	23.88	23.65
20		50	50	23.63	23.39	23.50
20		100	0	23.69	23.92	23.65
20	DFT-s-OFDM QPSK	1	1	24.29	24.37	24.35
20		1	53	23.58	23.91	23.88
20		1	104	23.57	23.90	23.88
20		50	1	23.12	23.41	23.14
20		50	25	23.12	23.38	23.15
20		50	50	23.11	23.40	23.13
20		100	0	23.14	23.40	23.13
20	DFT-s-OFDM 16QAM	1	1	23.17	23.20	23.00
20	DFT-s-OFDM 64QAM	1	1	21.67	21.76	21.60
20	DFT-s-OFDM 256QAM	1	1	19.83	20.17	19.96
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	23.54	24.11	23.95
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	23.48	24.16	23.78
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	CP-OFDM QPSK	1	1	22.56	22.70	22.58
20	CP-OFDM 16QAM	1	1	21.61	21.94	21.95
20	CP-OFDM 64QAM	1	1	20.27	20.59	20.49
20	CP-OFDM 256QAM	1	1	17.64	18.14	17.92

DC_12A_n7						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM	1	1	23.69	24.00	24.34



20	PI/2 BPSK	1	53	23.69	23.97	24.00
20		1	104	23.70	24.00	23.99
20		50	1	23.63	23.87	23.66
20		50	25	23.63	23.89	23.65
20		50	50	23.62	23.88	23.49
20		100	0	23.66	23.88	23.65
20	DFT-s-OFDM QPSK	1	1	24.19	24.38	24.35
20		1	53	23.59	23.84	23.85
20		1	104	23.58	23.82	23.87
20		50	1	23.13	23.40	23.14
20		50	25	23.09	23.40	23.13
20		50	50	23.11	23.40	23.14
20		100	0	23.14	23.40	23.12
20	DFT-s-OFDM 16QAM	1	1	23.04	23.17	23.14
20	DFT-s-OFDM 64QAM	1	1	21.42	21.76	21.89
20	DFT-s-OFDM 256QAM	1	1	19.67	19.97	20.15
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	23.58	24.14	23.91
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	23.39	24.20	23.78
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	CP-OFDM QPSK	1	1	22.56	22.75	22.55
20	CP-OFDM 16QAM	1	1	21.60	22.09	21.95
20	CP-OFDM 64QAM	1	1	20.25	20.59	20.44
20	CP-OFDM 256QAM	1	1	17.82	17.95	17.87



DC_13A_n7						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	DFT-s-OFDM PI/2 BPSK	1	1	23.53	24.19	23.98
20		1	53	23.54	23.79	23.99
20		1	104	23.55	23.77	23.99
20		50	1	23.56	24.04	23.64
20		50	25	23.48	23.62	23.50
20		50	50	23.45	23.65	23.49
20		100	0	23.48	23.65	23.66
20	DFT-s-OFDM QPSK	1	1	24.20	24.36	24.17
20		1	53	23.42	23.65	23.87
20		1	104	23.44	23.62	23.87
20		50	1	23.05	23.22	23.13
20		50	25	22.94	23.12	23.14
20		50	50	22.94	23.12	23.13
20		100	0	22.96	23.37	23.13
20	DFT-s-OFDM 16QAM	1	1	23.17	23.38	23.15
20	DFT-s-OFDM 64QAM	1	1	21.52	21.67	21.85
20	DFT-s-OFDM 256QAM	1	1	19.71	19.96	20.12
Channel				501500	507000	512500
Frequency (MHz)				2507.5	2535	2562.5
15	DFT-s-OFDM QPSK	1	1	23.42	23.88	24.01
Channel				501000	507000	513000
Frequency (MHz)				2505	2535	2565
10	DFT-s-OFDM QPSK	1	1	23.08	24.02	23.72
Channel				502000	507000	512000
Frequency (MHz)				2510	2535	2560
20	CP-OFDM QPSK	1	1	22.27	22.46	22.44
20	CP-OFDM 16QAM	1	1	21.63	21.73	21.80
20	CP-OFDM 64QAM	1	1	20.16	20.33	20.46



20	CP-OFDM 256QAM	1	1	17.50	18.09	18.06
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DC_ 5A_n38						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	22.10	22.13	22.09
40		1	53	22.05	22.07	22.06
40		1	105	21.78	21.63	21.82
40		50	1	22.01	22.11	22.08
40		50	25	21.84	21.83	21.90
40		50	50	22.05	22.10	22.03
40		100	0	22.09	22.06	22.03
40	DFT-s-OFDM QPSK	1	1	22.08	22.18	22.15
40		1	53	21.90	21.94	22.01
40		1	105	21.16	21.05	21.24
40		50	1	21.80	21.85	21.82
40		50	25	21.93	21.82	21.88
40		50	50	21.75	21.58	21.64
40		100	0	21.77	21.69	21.74
40	DFT-s-OFDM 16QAM	1	1	21.34	21.33	21.41
40	DFT-s-OFDM 64QAM	1	1	20.59	20.50	20.85
40	DFT-s-OFDM 256QAM	1	1	18.67	18.65	18.75
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	22.07	22.15	22.05
Channel				515500	519000	522500
Frequency (MHz)				2577.5	2595	2612.5
15	DFT-s-OFDM QPSK	1	1	21.93	21.89	22.09
Channel				515000	519000	523000
Frequency (MHz)				2575	2595	2615
10	DFT-s-OFDM QPSK	1	1	21.95	22.02	22.09



Channel				516000	519000	522000
Frequency (MHz)				2590	2595	2600
40	CP-OFDM QPSK	1	1	20.56	21.50	21.83
40	CP-OFDM 16QAM	1	1	20.89	21.22	21.43
40	CP-OFDM 64QAM	1	1	18.74	19.69	19.89
40	CP-OFDM 256QAM	1	1	16.17	16.64	16.94

DC_12A_n38						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	21.63	21.63	21.87
40		1	53	22.07	22.13	22.00
40		1	105	21.22	21.17	21.27
40		50	1	21.82	21.73	21.77
40		50	25	22.05	22.13	22.10
40		50	50	21.79	21.61	21.66
40		100	0	21.80	21.71	21.79
40	DFT-s-OFDM QPSK	1	1	22.12	22.16	22.14
40		1	53	22.10	22.12	22.00
40		1	105	20.66	20.67	20.72
40		50	1	21.30	21.35	21.33
40		50	25	22.06	22.12	22.09
40		50	50	21.27	21.10	21.14
40		100	0	21.27	21.19	21.26
40	DFT-s-OFDM 16QAM	1	1	21.22	21.37	21.43
40	DFT-s-OFDM 64QAM	1	1	20.47	20.65	20.77
40	DFT-s-OFDM 256QAM	1	1	18.65	18.48	18.75
Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	22.15	22.04	22.12
Channel				515500	519000	522500
Frequency (MHz)				2577.5	2595	2612.5



15	DFT-s-OFDM QPSK	1	1	22.08	22.03	22.08
Channel				515000	519000	523000
Frequency (MHz)				2575	2595	2615
10	DFT-s-OFDM QPSK	1	1	22.11	22.03	22.07
Channel				516000	519000	522000
Frequency (MHz)				2590	2595	2600
40	CP-OFDM QPSK	1	1	20.87	21.67	21.85
40	CP-OFDM 16QAM	1	1	20.89	21.20	21.27
40	CP-OFDM 64QAM	1	1	19.70	19.53	20.03
40	CP-OFDM 256QAM	1	1	16.15	16.59	16.95

DC_71A_n38						
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel
Channel				518000	519000	520000
Frequency (MHz)				2590	2595	2600
40	DFT-s-OFDM PI/2 BPSK	1	1	21.41	21.44	21.65
40		1	53	22.01	22.10	22.04
40		1	105	21.11	20.97	21.11
40		50	1	21.60	21.55	21.59
40		50	25	21.98	22.04	22.09
40		50	50	21.57	21.40	21.47
40		100	0	21.61	21.49	21.54
40	DFT-s-OFDM QPSK	1	1	21.96	22.15	22.05
40		1	53	22.07	22.05	22.12
40		1	105	20.48	20.35	20.56
40		50	1	21.11	21.19	21.13
40		50	25	22.13	22.04	22.09
40		50	50	21.06	20.92	20.96
40		100	0	21.10	20.97	21.06
40	DFT-s-OFDM 16QAM	1	1	21.11	21.19	21.42
40	DFT-s-OFDM 64QAM	1	1	20.60	20.64	20.76
40	DFT-s-OFDM 256QAM	1	1	18.45	18.67	18.89



Channel				516000	519000	522000
Frequency (MHz)				2580	2595	2610
20	DFT-s-OFDM QPSK	1	1	22.05	22.06	22.03
Channel				515500	519000	522500
Frequency (MHz)				2577.5	2595	2612.5
15	DFT-s-OFDM QPSK	1	1	22.05	22.01	21.94
Channel				515000	519000	523000
Frequency (MHz)				2575	2595	2615
10	DFT-s-OFDM QPSK	1	1	21.95	22.03	22.08
Channel				516000	519000	522000
Frequency (MHz)				2590	2595	2600
40	CP-OFDM QPSK	1	1	21.05	21.23	21.39
40	CP-OFDM 16QAM	1	1	20.89	20.88	20.54
40	CP-OFDM 64QAM	1	1	19.50	19.63	19.90
40	CP-OFDM 256QAM	1	1	16.19	16.49	16.94

DC_2A_n41						
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	25.19	25.50	26.07
100		1	136	26.19	26.34	26.68
100		1	272	22.96	22.87	22.87
100		135	1	25.59	25.86	25.98
100		135	67	26.28	26.36	26.61
100		135	136	25.76	25.88	25.79
100		270	0	25.65	25.87	25.91
100	DFT-s-OFDM QPSK	1	1	26.55	26.80	26.70
100		1	136	26.49	26.63	26.45
100		1	272	22.96	22.84	22.91
100		135	1	25.42	25.60	25.55
100		135	67	26.30	26.38	26.66



100		135	136	25.27	25.37	25.32
100		270	0	25.18	25.37	25.42
100	DFT-s-OFDM 16QAM	1	1	24.33	24.55	25.07
100	DFT-s-OFDM 64QAM	1	1	22.69	22.87	23.43
100	DFT-s-OFDM 256QAM	1	1	21.17	21.35	21.92
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.57	25.56	26.06
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.66	25.74	26.06
Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.87	25.93	26.56
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	26.07	26.17	26.54
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.71	26.12	26.18
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	26.10	26.54	26.28
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	26.06	26.56	26.31
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	26.26	26.58	26.5
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685
10	DFT-s-OFDM QPSK	1	1	26.24	26.57	26.54



Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	23.82	24.32	24.66
100	CP-OFDM 16QAM	1	1	23.36	23.45	24.10
100	CP-OFDM 64QAM	1	1	22.23	22.44	23.08
100	CP-OFDM 256QAM	1	1	19.06	19.27	19.88

DC_12A_n41						
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	25.19	25.46	26.07
100		1	136	26.18	26.34	26.77
100		1	272	22.96	22.87	22.88
100		135	1	25.59	25.86	25.99
100		135	67	26.27	26.37	26.62
100		135	136	25.75	25.88	25.78
100		270	0	25.67	25.89	25.93
100	DFT-s-OFDM QPSK	1	1	26.65	26.90	26.57
100		1	136	26.46	26.62	26.67
100		1	272	22.97	22.85	22.89
100		135	1	25.53	25.42	25.56
100		135	67	26.30	26.39	26.61
100		135	136	25.68	25.59	25.60
100		270	0	25.56	25.58	25.72
100	DFT-s-OFDM 16QAM	1	1	24.32	24.39	25.05
100	DFT-s-OFDM 64QAM	1	1	22.71	22.94	23.51
100	DFT-s-OFDM 256QAM	1	1	21.16	21.40	21.94
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.74	25.6	26.02
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99



80	DFT-s-OFDM QPSK	1	1	25.70	25.78	26.05
Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.84	25.89	26.54
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	26.06	26.12	26.85
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.73	26.04	26.18
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	26.10	26.40	26.28
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	26.08	26.75	26.29
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	26.25	26.41	26.51
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685
10	DFT-s-OFDM QPSK	1	1	26.21	26.87	26.53
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	23.83	24.07	24.69
100	CP-OFDM 16QAM	1	1	23.38	23.58	24.24
100	CP-OFDM 64QAM	1	1	22.22	22.46	23.09
100	CP-OFDM 256QAM	1	1	19.06	19.28	19.86

DC_26A_n41						
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	25.20	25.51	26.07
100		1	136	26.18	26.35	26.67
100		1	272	25.95	25.89	25.88
100		135	1	25.60	25.67	25.68
100		135	67	26.27	26.36	26.62
100		135	136	25.76	25.88	25.77
100		270	0	25.66	25.89	25.89
100	DFT-s-OFDM QPSK	1	1	26.62	26.75	26.67
100		1	136	26.51	26.49	26.49
100		1	272	22.95	22.89	22.90
100		135	1	25.51	25.69	25.55
100		135	67	26.29	26.40	26.65
100		135	136	25.26	25.39	25.33
100		270	0	25.57	25.40	25.42
100	DFT-s-OFDM 16QAM	1	1	24.32	24.44	24.89
100	DFT-s-OFDM 64QAM	1	1	22.70	22.99	23.50
100	DFT-s-OFDM 256QAM	1	1	21.17	21.37	21.97
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.58	25.61	26.02
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.69	25.74	25.92
Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.84	25.96	26.57
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	26.08	26.21	26.65
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.73	26.11	26.19



Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	26.05	26.49	26.29
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	26.05	26.57	26.33
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	26.25	26.42	26.49
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685
10	DFT-s-OFDM QPSK	1	1	26.21	26.56	26.52
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	23.81	24.06	24.68
100	CP-OFDM 16QAM	1	1	23.47	23.67	24.24
100	CP-OFDM 64QAM	1	1	22.24	22.44	23.04
100	CP-OFDM 256QAM	1	1	19.03	19.25	19.86

DC_66A_n41						
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	25.22	25.44	26.04
100		1	136	26.18	26.33	26.66
100		1	272	25.63	25.66	25.87
100		135	1	25.60	25.85	25.97
100		135	67	26.27	26.35	26.62
100		135	136	25.75	25.86	25.78
100		270	0	25.64	25.88	25.92
100	DFT-s-OFDM QPSK	1	1	26.53	26.76	26.66
100		1	136	26.44	26.58	26.45
100		1	272	22.93	22.84	22.89
100		135	1	25.42	25.61	25.53



100		135	67	26.28	26.37	26.65
100		135	136	25.25	25.38	25.32
100		270	0	25.17	25.38	25.43
100	DFT-s-OFDM 16QAM	1	1	24.32	24.51	24.85
100	DFT-s-OFDM 64QAM	1	1	22.71	22.94	23.56
100	DFT-s-OFDM 256QAM	1	1	21.18	21.37	21.98
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.64	25.61	25.92
Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.68	25.72	25.82
Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.85	25.93	26.54
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	26.04	26.22	25.54
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.74	26.08	26.19
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	26.02	26.48	26.27
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	25.98	26.55	26.32
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	26.22	26.56	26.46
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685



10	DFT-s-OFDM QPSK	1	1	26.19	26.57	26.53
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	24.86	24.05	24.65
100	CP-OFDM 16QAM	1	1	23.34	23.68	24.11
100	CP-OFDM 64QAM	1	1	22.19	22.43	23.03
100	CP-OFDM 256QAM	1	1	19.03	19.23	19.85

DC_71A_n41						
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	26.62	25.69	26.08
100		1	136	26.20	26.47	26.63
100		1	272	25.90	25.77	25.59
100		135	1	25.60	25.88	25.99
100		135	67	26.29	26.64	26.61
100		135	136	25.78	25.91	25.78
100		270	0	25.66	25.89	25.90
100	DFT-s-OFDM QPSK	1	1	26.58	26.72	26.66
100		1	136	26.43	26.63	26.43
100		1	272	22.94	22.84	22.91
100		135	1	25.63	25.69	25.54
100		135	67	26.30	26.39	26.65
100		135	136	25.67	25.69	25.59
100		270	0	25.66	25.57	25.53
100	DFT-s-OFDM 16QAM	1	1	24.34	24.37	25.08
100	DFT-s-OFDM 64QAM	1	1	22.72	22.94	23.52
100	DFT-s-OFDM 256QAM	1	1	21.19	21.36	21.94
Channel				508200	518598	528996
Frequency (MHz)				2541	2592.99	2644.98
90	DFT-s-OFDM QPSK	1	1	25.67	25.59	26.01



Channel				507204	518598	529998
Frequency (MHz)				2536.02	2592.99	2649.99
80	DFT-s-OFDM QPSK	1	1	25.67	25.57	25.51
Channel				505200	518598	531996
Frequency (MHz)				2526.00	2592.99	2659.98
60	DFT-s-OFDM QPSK	1	1	25.55	25.61	26.53
Channel				504204	518598	532998
Frequency (MHz)				2521.02	2592.99	2664.99
50	DFT-s-OFDM QPSK	1	1	26.05	26.17	26.54
Channel				503202	518598	534000
Frequency (MHz)				2516.01	2592.99	2670.00
40	DFT-s-OFDM QPSK	1	1	25.75	26.15	26.22
Channel				502200	518598	534996
Frequency (MHz)				2511.00	2592.99	2674.98
30	DFT-s-OFDM QPSK	1	1	26.06	26.58	26.29
Channel				501204	518598	535998
Frequency (MHz)				2506.02	2592.99	2679.99
20	DFT-s-OFDM QPSK	1	1	26.08	25.79	26.28
Channel				500700	518598	536496
Frequency (MHz)				2503.5	2592.99	2682.48
15	DFT-s-OFDM QPSK	1	1	26.24	26.42	26.46
Channel				500202	518598	537000
Frequency (MHz)				2501.01	2592.99	2685
10	DFT-s-OFDM QPSK	1	1	26.2	26.63	26.56
Channel				509202	518598	528000
Frequency (MHz)				2546.01	2592.99	2640.00
100	CP-OFDM QPSK	1	1	23.82	24.30	24.65
100	CP-OFDM 16QAM	1	1	23.43	23.50	24.24
100	CP-OFDM 64QAM	1	1	22.22	22.36	23.00
100	CP-OFDM 256QAM	1	1	19.07	19.20	19.85

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	23.14	23.12	23.26
40		1	53	23.19	23.07	23.22
40		1	104	23.09	23.12	23.15
40		53	1	23.14	23.22	23.26
40		53	26	23.02	23.24	23.01
40		53	52	23.11	23.06	23.19
40		106	0	23.25	23.00	22.81
40	DFT-s-OFDM QPSK	1	1	23.19	23.41	23.21
40		1	53	23.00	23.05	23.01
40		1	104	22.97	23.11	23.02
40		53	1	23.26	23.38	23.10
40		53	26	23.15	23.19	23.27
40		53	52	23.09	23.14	23.11
40		106	0	22.59	22.46	22.16
40	DFT-s-OFDM 16QAM	1	1	22.75	22.43	22.17
40	DFT-s-OFDM 64QAM	1	1	21.56	21.35	21.06
40	DFT-s-OFDM 256QAM	1	1	19.81	19.59	19.31
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	23.04	23.24	22.71
Channel				344500	349000	353500
Frequency (MHz)				1722.5	1745	1767.5
25	DFT-s-OFDM QPSK	1	1	22.88	23.22	23.06
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.91	23.14	23.12



Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.92	23.24	23.16
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.01	23.28	23.27
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.06	23.26	23.35
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	22.22	21.98	21.70
40	CP-OFDM 16QAM	1	1	21.75	21.55	21.29
40	CP-OFDM 64QAM	1	1	20.20	19.98	19.71
40	CP-OFDM 256QAM	1	1	17.49	17.28	16.98

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	22.74	22.51	22.22
40		1	53	22.78	22.86	23.11
40		1	104	22.47	23.20	23.19
40		53	1	22.71	22.52	22.24
40		53	26	22.97	22.58	22.87
40		53	52	22.79	22.83	23.37
40		106	0	22.24	21.99	21.78
40	DFT-s-OFDM QPSK	1	1	23.20	23.38	23.18
40		1	53	22.71	22.73	23.27
40		1	104	22.34	23.16	23.03
40		53	1	22.60	22.80	22.71



40		53	26	22.67	22.47	22.53
40		53	52	22.68	22.71	23.15
40		106	0	21.64	21.42	21.15
40	DFT-s-OFDM 16QAM	1	1	22.24	22.39	22.16
40	DFT-s-OFDM 64QAM	1	1	21.26	21.33	21.03
40	DFT-s-OFDM 256QAM	1	1	19.58	19.55	19.30
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	23.07	23.24	23.04
Channel				344500	349000	353500
Frequency (MHz)				1722.5	1745	1767.5
25	DFT-s-OFDM QPSK	1	1	23.05	23.32	23.28
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.01	23.35	23.33
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.95	23.14	23.29
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.01	23.28	23.37
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.98	23.11	23.29
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760



40	CP-OFDM QPSK	1	1	22.20	21.95	21.69
40	CP-OFDM 16QAM	1	1	21.74	21.54	21.22
40	CP-OFDM 64QAM	1	1	20.14	19.95	19.70
40	CP-OFDM 256QAM	1	1	17.50	17.26	16.98

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	22.72	22.52	22.58
40		1	53	22.60	22.86	23.28
40		1	104	22.50	23.26	23.11
40		53	1	22.74	22.54	22.25
40		53	26	23.02	22.60	22.90
40		53	52	22.81	22.86	23.29
40		106	0	22.26	22.05	21.78
40	DFT-s-OFDM QPSK	1	1	23.30	23.43	23.22
40		1	53	22.69	22.77	23.43
40		1	104	22.38	22.94	22.78
40		53	1	22.42	22.48	22.14
40		53	26	22.65	22.53	22.81
40		53	52	22.48	22.76	23.01
40		106	0	21.61	21.49	21.20
40	DFT-s-OFDM 16QAM	1	1	22.19	22.35	22.24
40	DFT-s-OFDM 64QAM	1	1	21.58	21.08	20.84
40	DFT-s-OFDM 256QAM	1	1	19.82	19.39	19.07
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	23.09	23.21	22.91
Channel				344500	349000	353500



Frequency (MHz)				1722.5	1745	1767.5
25	DFT-s-OFDM QPSK	1	1	22.98	23.19	23.05
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.18	23.17	23.15
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.98	23.17	23.16
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	22.97	23.26	23.14
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	22.95	23.16	23.07
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	22.23	21.86	21.69
40	CP-OFDM 16QAM	1	1	21.77	21.49	21.25
40	CP-OFDM 64QAM	1	1	20.17	19.93	19.71
40	CP-OFDM 256QAM	1	1	17.50	17.44	17.07

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	22.73	22.53	22.57
40		1	53	22.78	22.86	23.39
40		1	104	22.46	23.28	23.11
40		53	1	22.56	22.57	22.24



40		53	26	22.99	22.61	22.64
40		53	52	22.79	22.86	23.06
40		106	0	22.26	22.01	22.08
40	DFT-s-OFDM QPSK	1	1	23.30	23.42	23.26
40		1	53	22.67	22.77	23.29
40		1	104	22.32	23.22	23.00
40		53	1	22.67	22.44	22.12
40		53	26	22.69	22.50	22.26
40		53	52	22.68	22.76	23.18
40		106	0	21.58	21.50	21.56
40	DFT-s-OFDM 16QAM	1	1	22.28	22.36	22.27
40	DFT-s-OFDM 64QAM	1	1	21.56	21.12	21.11
40	DFT-s-OFDM 256QAM	1	1	19.79	19.43	19.04
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	23.05	23.15	23.20
Channel				344500	349000	353500
Frequency (MHz)				1722.5	1745	1767.5
25	DFT-s-OFDM QPSK	1	1	22.98	23.12	23.18
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	22.89	23.22	23.13
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	22.95	23.08	23.25
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.03	23.15	23.14



Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.05	23.13	23.19
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	22.14	21.88	21.68
40	CP-OFDM 16QAM	1	1	21.72	21.46	21.21
40	CP-OFDM 64QAM	1	1	20.12	19.94	19.69
40	CP-OFDM 256QAM	1	1	17.66	17.41	16.97

DC_71A_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	22.57	22.24
40		1	53	22.77	22.82	23.28
40		1	104	22.44	23.23	23.11
40		53	1	22.73	22.51	22.25
40		53	26	22.96	22.62	22.90
40		53	52	22.77	22.82	23.35
40		106	0	22.24	22.02	21.77
40	DFT-s-OFDM QPSK	1	1	23.15	23.40	23.38
40		1	53	22.66	22.75	23.30
40		1	104	22.36	23.19	22.99
40		53	1	22.58	22.40	22.11
40		53	26	22.78	22.51	22.83
40		53	52	22.67	22.76	23.13
40		106	0	21.55	21.60	21.56
40	DFT-s-OFDM 16QAM	1	1	22.09	22.12	22.10
40	DFT-s-OFDM 64QAM	1	1	21.53	21.09	21.07



40	DFT-s-OFDM 256QAM	1	1	19.77	19.36	19.28
Channel				345000	349000	353000
Frequency (MHz)				1725	1745	1765
30	DFT-s-OFDM QPSK	1	1	23.16	23.18	23.03
Channel				344500	349000	353500
Frequency (MHz)				1722.5	1745	1767.5
25	DFT-s-OFDM QPSK	1	1	23.03	23.10	23.07
Channel				344000	349000	354000
Frequency (MHz)				1720	1745	1770
20	DFT-s-OFDM QPSK	1	1	23.08	23.20	23.10
Channel				343500	349000	354500
Frequency (MHz)				1717.5	1745	1772.5
15	DFT-s-OFDM QPSK	1	1	23.15	23.24	23.13
Channel				343000	349000	355000
Frequency (MHz)				1715	1745	1775
10	DFT-s-OFDM QPSK	1	1	23.04	23.15	23.12
Channel				342500	349000	355500
Frequency (MHz)				1712.5	1745	1777.5
5	DFT-s-OFDM QPSK	1	1	23.11	23.17	23.15
Channel				346000	349000	352000
Frequency (MHz)				1730	1745	1760
40	CP-OFDM QPSK	1	1	22.14	21.95	21.68
40	CP-OFDM 16QAM	1	1	21.72	21.55	21.23
40	CP-OFDM 64QAM	1	1	20.13	19.96	19.70
40	CP-OFDM 256QAM	1	1	17.62	17.26	16.94

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	24.59	24.84	24.86
100		1	136	25.73	25.79	25.72
100		1	271	24.94	24.85	24.73
100		135	1	24.98	25.09	25.12
100		135	67	25.75	25.81	25.75
100		135	136	25.22	25.20	25.03
100		270	0	25.06	25.14	25.07
100	DFT-s-OFDM QPSK	1	1	25.60	25.86	25.77
100		1	136	25.80	25.82	25.83
100		1	271	24.95	24.97	24.81
100		135	1	24.55	24.65	24.63
100		135	67	25.76	25.83	25.77
100		135	136	24.57	24.56	24.57
100		270	0	24.59	24.66	24.61
100	DFT-s-OFDM 16QAM	1	1	23.70	23.94	23.98
100	DFT-s-OFDM 64QAM	1	1	22.07	22.23	22.37
100	DFT-s-OFDM 256QAM	1	1	20.45	20.70	20.80
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.05	25.10	25.22
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.06	25.22	25.26
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.31	25.46	25.41



Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.30	25.51	25.62
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.00	25.22	25.24
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.52	25.73	25.55
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.59	25.84	25.58
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.62	25.79	25.54
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.14	23.43	23.52
100	CP-OFDM 16QAM	1	1	22.72	22.99	23.06
100	CP-OFDM 64QAM	1	1	21.16	21.45	21.54
100	CP-OFDM 256QAM	1	1	18.44	18.68	18.77



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	/	24.23	/
100		1	136	/	25.32	/
100		1	271	/	24.28	/
100		135	1	/	24.59	/
100		135	67	/	25.33	/
100		135	136	/	24.67	/
100		270	0	/	24.65	/
100	DFT-s-OFDM QPSK	1	1	/	25.40	/
100		1	136	/	25.37	/
100		1	271	/	24.33	/
100		135	1	/	24.10	/
100		135	67	/	25.34	/
100		135	136	/	24.18	/
100		270	0	/	24.05	/
100	DFT-s-OFDM 16QAM	1	1	/	23.52	/
100	DFT-s-OFDM 64QAM	1	1	/	21.84	/
100	DFT-s-OFDM 256QAM	1	1	/	20.32	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.16	25.16	25.22
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.32	25.28	25.05
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.27	25.29	25.33



Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.27	25.19	25.18
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.15	25.17	25.12
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.03	25.05	24.98
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.06	25.12	24.90
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.02	24.98	25.04
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.53	/
100	CP-OFDM 16QAM	1	1	/	23.08	/
100	CP-OFDM 64QAM	1	1	/	21.52	/
100	CP-OFDM 256QAM	1	1	/	18.78	/

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	1	1	24.59	24.85	24.87
100		1	136	25.75	25.87	25.79



100	PI/2 BPSK	1	271	24.96	24.94	24.78
100		135	1	25.01	25.19	25.13
100		135	67	25.78	25.87	25.80
100		135	136	25.23	25.26	24.98
100		270	0	25.03	25.21	25.13
100	DFT-s-OFDM QPSK	1	1	25.62	25.88	25.61
100		1	136	25.82	25.83	25.79
100		1	271	25.01	24.88	24.85
100		135	1	24.57	24.73	24.69
100		135	67	25.79	25.78	25.80
100		135	136	24.57	24.81	24.61
100		270	0	24.53	24.60	24.64
100	DFT-s-OFDM 16QAM	1	1	24.09	24.00	24.05
100	DFT-s-OFDM 64QAM	1	1	22.06	22.41	22.47
100	DFT-s-OFDM 256QAM	1	1	20.54	20.81	20.91
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.03	25.13	25.29
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.00	25.34	25.28
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.28	25.48	25.48
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.30	25.64	25.69
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960



40	DFT-s-OFDM QPSK	1	1	25.05	25.30	25.28
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.53	25.78	25.55
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.62	25.70	25.60
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.62	25.60	25.58
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.15	23.49	23.78
100	CP-OFDM 16QAM	1	1	22.70	23.04	23.00
100	CP-OFDM 64QAM	1	1	21.14	21.46	21.53
100	CP-OFDM 256QAM	1	1	18.42	18.74	18.83

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	/	24.26	/
100		1	136	/	25.34	/
100		1	271	/	24.30	/
100		135	1	/	24.67	/
100		135	67	/	25.33	/
100		135	136	/	24.68	/
100		270	0	/	24.70	/
100	DFT-s-	1	1	/	25.39	/



100	OFDM QPSK	1	136	/	25.24	/
100		1	271	/	24.38	/
100		135	1	/	24.12	/
100		135	67	/	25.37	/
100		135	136	/	24.19	/
100		270	0	/	24.07	/
100	DFT-s- OFDM 16QAM	1	1	/	23.56	/
100	DFT-s- OFDM 64QAM	1	1	/	21.94	/
100	DFT-s- OFDM 256QAM	1	1	/	20.39	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s- OFDM QPSK	1	1	25.14	25.23	25.02
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s- OFDM QPSK	1	1	25.02	25.12	25.19
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s- OFDM QPSK	1	1	25.10	25.04	25.01
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s- OFDM QPSK	1	1	25.03	25.24	24.96
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s- OFDM QPSK	1	1	25.36	25.26	25.32
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s- OFDM QPSK	1	1	25.05	25.03	25.02



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Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	24.91	25.01	25.03
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.02	25.08	24.98
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.73	/
100	CP-OFDM 16QAM	1	1	/	23.00	/
100	CP-OFDM 64QAM	1	1	/	21.44	/
100	CP-OFDM 256QAM	1	1	/	18.78	/

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	24.56	24.88	24.96
100		1	136	25.71	25.81	25.77
100		1	271	24.91	24.92	24.82
100		135	1	24.99	25.12	25.13
100		135	67	25.73	25.83	25.78
100		135	136	25.18	25.24	25.11
100		270	0	25.01	25.19	25.07
100	DFT-s-OFDM QPSK	1	1	25.61	25.89	25.86
100		1	136	25.84	25.80	25.83
100		1	271	24.73	24.89	24.90
100		135	1	24.51	24.56	24.65
100		135	67	25.73	25.85	25.79
100		135	136	24.54	24.76	24.61
100		270	0	24.57	24.68	24.62



100	DFT-s-OFDM 16QAM	1	1	23.72	23.95	24.02
100	DFT-s-OFDM 64QAM	1	1	21.99	22.27	22.39
100	DFT-s-OFDM 256QAM	1	1	20.43	20.74	20.82
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.03	25.08	25.21
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.03	25.27	25.21
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.31	25.43	25.41
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.32	25.57	25.64
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.06	25.25	25.23
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.51	25.73	25.56
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.60	25.83	25.68
Channel				647000	656000	665000



Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.61	25.89	25.68
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.29	23.41	23.52
100	CP-OFDM 16QAM	1	1	22.65	22.98	23.05
100	CP-OFDM 64QAM	1	1	21.14	21.41	21.50
100	CP-OFDM 256QAM	1	1	18.43	18.70	18.79

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	/	24.29	/
100		1	136	/	25.34	/
100		1	271	/	24.30	/
100		135	1	/	24.70	/
100		135	67	/	25.35	/
100		135	136	/	24.68	/
100		270	0	/	24.69	/
100	DFT-s-OFDM QPSK	1	1	/	25.43	/
100		1	136	/	25.37	/
100		1	271	/	24.36	/
100		135	1	/	24.13	/
100		135	67	/	25.36	/
100		135	136	/	24.18	/
100		270	0	/	24.20	/
100	DFT-s-OFDM 16QAM	1	1	/	24.05	/
100	DFT-s-OFDM 64QAM	1	1	/	22.39	/



100	DFT-s-OFDM 256QAM	1	1	/	20.86	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.95	25.17	25.25
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.40	25.38	25.27
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.06	25.15	25.03
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.13	25.06	25.08
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.39	25.22	25.33
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	24.99	25.02	25.01
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.02	25.18	25.13
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.01	25.13	25.07
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/



100	CP-OFDM QPSK	1	1	/	23.53	/
100	CP-OFDM 16QAM	1	1	/	23.09	/
100	CP-OFDM 64QAM	1	1	/	21.52	/
100	CP-OFDM 256QAM	1	1	/	18.78	/

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	24.60	24.92	24.83
100		1	136	25.75	25.69	25.76
100		1	271	24.98	24.73	24.75
100		135	1	25.01	25.20	25.15
100		135	67	25.79	25.85	25.78
100		135	136	25.23	25.27	25.06
100		270	0	25.10	25.21	25.06
100	DFT-s-OFDM QPSK	1	1	25.73	25.87	25.80
100		1	136	25.49	25.86	25.82
100		1	271	24.81	25.00	24.84
100		135	1	24.54	24.58	24.66
100		135	67	25.80	25.81	25.80
100		135	136	24.76	24.64	24.48
100		270	0	24.62	24.57	24.62
100	DFT-s-OFDM 16QAM	1	1	23.70	24.00	24.04
100	DFT-s-OFDM 64QAM	1	1	22.10	22.38	22.47
100	DFT-s-OFDM 256QAM	1	1	20.49	20.78	20.87
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	24.06	25.08	25.24
Channel				649334	656000	662666



Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.01	24.97	25.32
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.30	25.48	25.46
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.28	25.63	25.71
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.10	25.29	25.25
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.54	25.78	25.55
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.64	25.55	25.57
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.64	25.59	25.55
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.16	23.47	23.76
100	CP-OFDM 16QAM	1	1	22.72	23.03	23.13
100	CP-OFDM 64QAM	1	1	21.14	21.45	21.58
100	CP-OFDM 256QAM	1	1	18.42	18.71	18.83



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	/	24.51	/
100		1	136	/	25.33	/
100		1	271	/	24.31	/
100		135	1	/	24.66	/
100		135	67	/	25.35	/
100		135	136	/	24.68	/
100		270	0	/	24.69	/
100	DFT-s-OFDM QPSK	1	1	/	25.37	/
100		1	136	/	25.31	/
100		1	271	/	24.36	/
100		135	1	/	24.24	/
100		135	67	/	25.30	/
100		135	136	/	24.17	/
100		270	0	/	24.08	/
100	DFT-s-OFDM 16QAM	1	1	/	24.04	/
100	DFT-s-OFDM 64QAM	1	1	/	22.41	/
100	DFT-s-OFDM 256QAM	1	1	/	20.89	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.14	25.17	25.19
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.30	25.35	25.04
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.07	25.03	25.18



Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	24.98	25.09	25.04
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.04	25.05	25.13
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.03	25.11	25.09
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.01	24.99	25.02
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.17	25.21	25.04
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.72	/
100	CP-OFDM 16QAM	1	1	/	23.02	/
100	CP-OFDM 64QAM	1	1	/	21.42	/
100	CP-OFDM 256QAM	1	1	/	18.80	/

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	24.59	24.91	24.97
100		1	136	25.74	25.83	25.77
100		1	271	24.77	24.93	24.78



100		135	1	25.02	25.15	25.03
100		135	67	25.80	25.78	25.78
100		135	136	25.24	25.27	25.07
100		270	0	25.09	25.19	25.13
100	DFT-s-OFDM QPSK	1	1	25.61	25.90	25.73
100		1	136	25.71	25.86	25.89
100		1	271	25.01	24.94	24.84
100		135	1	24.51	24.58	24.68
100		135	67	25.79	25.83	25.79
100		135	136	24.59	24.65	24.61
100		270	0	24.62	24.59	24.65
100	DFT-s-OFDM 16QAM	1	1	23.68	23.95	24.04
100	DFT-s-OFDM 64QAM	1	1	22.06	22.38	22.48
100	DFT-s-OFDM 256QAM	1	1	20.44	20.78	20.91
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.03	25.09	25.30
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.03	25.33	25.05
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.23	25.47	25.42
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.26	25.58	25.69
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960



40	DFT-s-OFDM QPSK	1	1	25.05	25.33	25.31
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.53	25.58	25.57
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.57	25.59	25.67
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.58	25.65	25.66
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.29	23.47	23.58
100	CP-OFDM 16QAM	1	1	22.58	23.03	23.15
100	CP-OFDM 64QAM	1	1	20.98	21.43	21.59
100	CP-OFDM 256QAM	1	1	18.41	18.71	18.83

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	/	24.30	/
100		1	136	/	25.30	/
100		1	271	/	24.30	/
100		135	1	/	24.65	/
100		135	67	/	25.29	/
100		135	136	/	24.66	/
100		270	0	/	24.67	/
100	DFT-s-	1	1	/	25.40	/



100	OFDM QPSK	1	136	/	25.35	/
100		1	271	/	24.34	/
100		135	1	/	24.11	/
100		135	67	/	25.35	/
100		135	136	/	24.19	/
100		270	0	/	24.07	/
100	DFT-s-OFDM 16QAM	1	1	/	24.02	/
100	DFT-s-OFDM 64QAM	1	1	/	22.41	/
100	DFT-s-OFDM 256QAM	1	1	/	20.88	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.07	25.21	25.26
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.41	25.36	25.12
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.20	25.02	25.11
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.02	25.05	25.04
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.16	25.24	25.32
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	24.95	25.10	25.11



Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.08	25.13	25.12
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.09	25.07	25.03
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.53	/
100	CP-OFDM 16QAM	1	1	/	23.11	/
100	CP-OFDM 64QAM	1	1	/	21.52	/
100	CP-OFDM 256QAM	1	1	/	18.81	/

DC_ 14A_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	24.59	24.86	22.65
100		1	136	25.75	25.81	25.80
100		1	271	24.78	24.95	24.77
100		135	1	25.01	25.14	25.12
100		135	67	25.78	25.85	25.79
100		135	136	25.22	25.27	25.08
100		270	0	25.08	25.20	25.13
100	DFT-s-OFDM QPSK	1	1	25.88	25.88	25.72
100		1	136	25.80	25.84	25.79
100		1	271	25.00	24.92	24.84
100		135	1	24.50	24.62	24.56
100		135	67	25.77	25.80	25.83
100		135	136	24.58	24.79	24.49
100		270	0	24.44	24.62	24.53



100	DFT-s-OFDM 16QAM	1	1	23.68	24.00	24.04
100	DFT-s-OFDM 64QAM	1	1	22.07	22.40	22.52
100	DFT-s-OFDM 256QAM	1	1	20.43	20.79	20.90
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.07	25.13	25.23
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.08	25.11	25.25
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.25	25.56	25.45
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.27	25.59	25.69
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.03	25.35	25.25
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.52	25.61	25.59
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.53	25.70	25.66
Channel				647000	656000	665000



Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.56	25.52	25.63
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.30	23.48	23.56
100	CP-OFDM 16QAM	1	1	22.60	23.03	23.12
100	CP-OFDM 64QAM	1	1	21.02	21.46	21.54
100	CP-OFDM 256QAM	1	1	18.41	18.74	18.83

DC_14A_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	/	24.46	/
100		1	136	/	25.34	/
100		1	271	/	24.32	/
100		135	1	/	24.66	/
100		135	67	/	25.37	/
100		135	136	/	24.68	/
100		270	0	/	24.69	/
100	DFT-s-OFDM QPSK	1	1	/	25.45	/
100		1	136	/	25.42	/
100		1	271	/	24.37	/
100		135	1	/	24.27	/
100		135	67	/	25.38	/
100		135	136	/	24.21	/
100		270	0	/	24.09	/
100	DFT-s-OFDM 16QAM	1	1	/	24.05	/
100	DFT-s-OFDM 64QAM	1	1	/	22.43	/



100	DFT-s-OFDM 256QAM	1	1	/	20.88	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.12	25.09	25.06
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.37	25.24	25.35
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.23	25.15	25.38
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.12	25.06	25.14
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.14	25.22	25.30
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.04	25.02	25.09
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.11	25.10	25.23
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.16	25.06	25.12
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/



100	CP-OFDM QPSK	1	1	/	23.55	/
100	CP-OFDM 16QAM	1	1	/	23.11	/
100	CP-OFDM 64QAM	1	1	/	21.53	/
100	CP-OFDM 256QAM	1	1	/	18.79	/

DC_ 25A_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	24.60	24.89	24.90
100		1	136	25.71	25.79	25.74
100		1	271	24.67	24.85	24.76
100		135	1	24.97	24.97	25.10
100		135	67	25.75	25.83	25.74
100		135	136	25.21	25.21	24.93
100		270	0	25.04	25.17	24.98
100	DFT-s-OFDM QPSK	1	1	25.63	25.85	25.84
100		1	136	25.76	25.83	25.82
100		1	271	24.94	24.74	24.80
100		135	1	24.48	24.68	24.61
100		135	67	25.77	25.83	25.77
100		135	136	24.55	24.74	24.45
100		270	0	24.42	24.66	24.47
100	DFT-s-OFDM 16QAM	1	1	23.72	23.93	23.98
100	DFT-s-OFDM 64QAM	1	1	21.99	22.26	22.33
100	DFT-s-OFDM 256QAM	1	1	20.45	20.73	20.80
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.06	25.09	25.05
Channel				649334	656000	662666



Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.00	25.25	25.21
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.23	25.47	25.39
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.26	25.58	25.62
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.03	25.26	25.22
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.54	25.74	25.54
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.59	25.64	25.56
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.62	25.76	25.59
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.15	23.52	23.46
100	CP-OFDM 16QAM	1	1	22.77	23.00	23.06
100	CP-OFDM 64QAM	1	1	21.26	21.44	21.49
100	CP-OFDM 256QAM	1	1	18.43	18.71	18.76



DC_ 25A_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	/	24.45	/
100		1	136	/	25.31	/
100		1	271	/	24.32	/
100		135	1	/	24.67	/
100		135	67	/	25.33	/
100		135	136	/	24.68	/
100		270	0	/	24.68	/
100	DFT-s-OFDM QPSK	1	1	/	25.37	/
100		1	136	/	25.33	/
100		1	271	/	24.37	/
100		135	1	/	24.25	/
100		135	67	/	25.34	/
100		135	136	/	24.19	/
100		270	0	/	24.20	/
100	DFT-s-OFDM 16QAM	1	1	/	24.04	/
100	DFT-s-OFDM 64QAM	1	1	/	22.39	/
100	DFT-s-OFDM 256QAM	1	1	/	20.82	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.03	25.17	25.22
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.34	25.30	25.22
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.13	25.18	25.10



Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.02	25.16	25.11
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.05	25.14	25.31
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.13	25.16	25.10
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.10	25.12	25.00
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.09	25.05	25.16
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.54	/
100	CP-OFDM 16QAM	1	1	/	23.13	/
100	CP-OFDM 64QAM	1	1	/	21.53	/
100	CP-OFDM 256QAM	1	1	/	18.75	/

DC_ 26A_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	24.61	24.86	25.01
100		1	136	25.74	25.85	25.75
100		1	271	24.97	24.79	24.76



100		135	1	24.80	25.20	24.93
100		135	67	25.77	25.89	25.78
100		135	136	25.25	25.31	25.04
100		270	0	25.11	25.22	25.06
100	DFT-s-OFDM QPSK	1	1	25.73	25.86	25.85
100		1	136	25.80	25.83	25.80
100		1	271	24.80	24.92	24.84
100		135	1	24.59	24.60	24.68
100		135	67	25.81	25.81	25.79
100		135	136	24.61	24.79	24.59
100		270	0	24.67	24.73	24.63
100	DFT-s-OFDM 16QAM	1	1	23.70	23.97	24.04
100	DFT-s-OFDM 64QAM	1	1	22.09	22.38	22.46
100	DFT-s-OFDM 256QAM	1	1	20.47	20.77	20.87
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.06	25.13	25.26
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.04	25.04	25.05
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.26	25.48	25.47
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.32	25.63	25.71
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960



40	DFT-s-OFDM QPSK	1	1	25.07	25.30	25.28
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.52	25.80	25.59
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.64	25.87	25.67
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.60	25.62	25.59
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.17	23.46	23.76
100	CP-OFDM 16QAM	1	1	22.74	23.05	22.97
100	CP-OFDM 64QAM	1	1	21.16	21.49	21.48
100	CP-OFDM 256QAM	1	1	18.42	18.73	18.81

DC_26A_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	/	24.46	/
100		1	136	/	25.32	/
100		1	271	/	24.30	/
100		135	1	/	24.71	/
100		135	67	/	25.34	/
100		135	136	/	24.67	/
100		270	0	/	24.69	/
100	DFT-s-	1	1	/	25.40	/



100	OFDM QPSK	1	136	/	25.38	/
100		1	271	/	24.37	/
100		135	1	/	24.11	/
100		135	67	/	25.34	/
100		135	136	/	24.20	/
100		270	0	/	24.21	/
100	DFT-s- OFDM 16QAM	1	1	/	24.06	/
100	DFT-s- OFDM 64QAM	1	1	/	22.42	/
100	DFT-s- OFDM 256QAM	1	1	/	20.89	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s- OFDM QPSK	1	1	25.19	25.22	25.10
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s- OFDM QPSK	1	1	25.29	25.32	25.34
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s- OFDM QPSK	1	1	25.02	25.22	25.18
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s- OFDM QPSK	1	1	25.06	25.10	25.17
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s- OFDM QPSK	1	1	25.17	25.21	25.30
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s- OFDM QPSK	1	1	25.15	25.21	25.12



Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.08	25.10	25.18
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.06	25.19	25.03
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.54	/
100	CP-OFDM 16QAM	1	1	/	23.10	/
100	CP-OFDM 64QAM	1	1	/	21.54	/
100	CP-OFDM 256QAM	1	1	/	18.80	/

DC_ 30A_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	24.58	24.80	24.91
100		1	136	25.72	25.77	25.66
100		1	271	24.68	24.82	24.65
100		135	1	24.96	25.12	25.06
100		135	67	25.75	25.83	25.69
100		135	136	25.20	25.21	24.76
100		270	0	25.05	25.14	25.02
100	DFT-s-OFDM QPSK	1	1	25.64	25.90	25.80
100		1	136	25.89	25.84	25.88
100		1	271	24.95	24.81	24.77
100		135	1	24.51	24.50	24.57
100		135	67	25.75	25.82	25.68
100		135	136	24.71	24.55	24.43
100		270	0	24.58	24.59	24.54



100	DFT-s-OFDM 16QAM	1	1	23.65	23.93	23.96
100	DFT-s-OFDM 64QAM	1	1	22.06	22.33	22.31
100	DFT-s-OFDM 256QAM	1	1	20.44	20.71	20.75
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.04	25.03	25.16
Channel				649334	656000	662666
Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.07	25.24	25.09
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.20	25.46	25.35
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.28	25.56	25.58
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.06	25.27	25.14
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.53	25.72	25.47
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.59	25.82	25.58
Channel				647000	656000	665000



Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.62	25.82	25.56
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.16	23.59	23.50
100	CP-OFDM 16QAM	1	1	22.73	22.88	23.04
100	CP-OFDM 64QAM	1	1	21.20	21.38	21.48
100	CP-OFDM 256QAM	1	1	18.41	18.71	18.75

DC_30A_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	/	24.44	/
100		1	136	/	25.31	/
100		1	271	/	24.30	/
100		135	1	/	24.70	/
100		135	67	/	25.34	/
100		135	136	/	24.67	/
100		270	0	/	24.68	/
100	DFT-s-OFDM QPSK	1	1	/	25.45	/
100		1	136	/	25.32	/
100		1	271	/	24.37	/
100		135	1	/	24.10	/
100		135	67	/	25.36	/
100		135	136	/	24.20	/
100		270	0	/	24.19	/
100	DFT-s-OFDM 16QAM	1	1	/	24.11	/
100	DFT-s-OFDM 64QAM	1	1	/	22.38	/



100	DFT-s-OFDM 256QAM	1	1	/	20.85	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.10	25.06	25.23
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.05	25.14	25.11
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.02	25.12	25.01
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.07	25.06	25.17
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.05	25.04	25.11
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.11	25.03	25.13
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.19	25.14	25.10
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.08	25.16	25.12
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/



100	CP-OFDM QPSK	1	1	/	23.54	/
100	CP-OFDM 16QAM	1	1	/	23.16	/
100	CP-OFDM 64QAM	1	1	/	21.57	/
100	CP-OFDM 256QAM	1	1	/	18.78	/

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	24.60	24.55	24.89
100		1	136	25.75	25.80	25.72
100		1	271	24.80	24.71	24.73
100		135	1	25.02	25.07	24.88
100		135	67	25.76	25.82	25.74
100		135	136	25.20	25.22	24.96
100		270	0	25.09	25.15	24.90
100	DFT-s-OFDM QPSK	1	1	25.63	25.87	25.84
100		1	136	25.85	25.80	25.87
100		1	271	24.73	24.85	24.85
100		135	1	24.58	24.66	24.52
100		135	67	25.77	25.82	25.74
100		135	136	24.55	24.58	24.57
100		270	0	24.59	24.51	24.58
100	DFT-s-OFDM 16QAM	1	1	23.64	23.94	23.99
100	DFT-s-OFDM 64QAM	1	1	22.09	22.26	22.32
100	DFT-s-OFDM 256QAM	1	1	20.47	20.72	20.79
Channel				649667	656000	662333
Frequency (MHz)				3745.005	3840	3934.995
90	DFT-s-OFDM QPSK	1	1	25.08	25.07	25.25
Channel				649334	656000	662666



Frequency (MHz)				3740	3840	3940
80	DFT-s-OFDM QPSK	1	1	25.09	25.03	25.21
Channel				648668	656000	663332
Frequency (MHz)				3730	3840	3950
60	DFT-s-OFDM QPSK	1	1	25.24	25.42	25.44
Channel				648334	656000	663666
Frequency (MHz)				3725.01	3840	3954.99
50	DFT-s-OFDM QPSK	1	1	25.32	25.53	25.67
Channel				648000	656000	664000
Frequency (MHz)				3720	3840	3960
40	DFT-s-OFDM QPSK	1	1	25.08	25.26	25.24
Channel				647334	656000	664666
Frequency (MHz)				3710	3840	3970
20	DFT-s-OFDM QPSK	1	1	25.51	25.74	25.57
Channel				647167	656000	664833
Frequency (MHz)				3707.505	3840	3972.495
15	DFT-s-OFDM QPSK	1	1	25.57	25.81	25.64
Channel				647000	656000	665000
Frequency (MHz)				3705	3840	3975
10	DFT-s-OFDM QPSK	1	1	25.62	25.84	25.59
Channel				650000	656000	662000
Frequency (MHz)				3750	3840	3930
100	CP-OFDM QPSK	1	1	23.14	23.60	23.50
100	CP-OFDM 16QAM	1	1	22.76	23.03	23.05
100	CP-OFDM 64QAM	1	1	21.22	21.50	21.51
100	CP-OFDM 256QAM	1	1	18.43	18.64	18.79



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	/	24.46	/
100		1	136	/	25.33	/
100		1	271	/	24.31	/
100		135	1	/	24.51	/
100		135	67	/	25.33	/
100		135	136	/	24.67	/
100		270	0	/	24.68	/
100	DFT-s-OFDM QPSK	1	1	/	25.45	/
100		1	136	/	25.41	/
100		1	271	/	24.35	/
100		135	1	/	24.11	/
100		135	67	/	25.35	/
100		135	136	/	24.18	/
100		270	0	/	24.21	/
100	DFT-s-OFDM 16QAM	1	1	/	23.99	/
100	DFT-s-OFDM 64QAM	1	1	/	22.43	/
100	DFT-s-OFDM 256QAM	1	1	/	20.85	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.20	25.16	25.19
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.10	25.20	25.13
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.05	25.06	25.08



Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.16	25.11	25.04
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.14	25.05	25.11
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.04	25.11	25.12
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.13	25.13	25.14
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.11	25.06	25.03
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.55	/
100	CP-OFDM 16QAM	1	1	/	23.10	/
100	CP-OFDM 64QAM	1	1	/	21.52	/
100	CP-OFDM 256QAM	1	1	/	18.79	/

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	/	24.25	/
100		1	136	/	25.39	/
100		1	271	/	24.56	/



100		135	1	/	24.62	/
100		135	67	/	25.39	/
100		135	136	/	24.80	/
100		270	0	/	24.71	/
100	DFT-s-OFDM QPSK	1	1	/	25.59	/
100		1	136	/	25.50	/
100		1	271	/	24.58	/
100		135	1	/	24.37	/
100		135	67	/	25.38	/
100		135	136	/	24.20	/
100		270	0	/	24.25	/
100	DFT-s-OFDM 16QAM	1	1	/	23.57	/
100	DFT-s-OFDM 64QAM	1	1	/	21.92	/
100	DFT-s-OFDM 256QAM	1	1	/	20.33	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	24.56	24.67	25.10
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	24.83	25.11	24.63
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.15	25.15	25.22
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.16	25.58	25.41
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780



40	DFT-s-OFDM QPSK	1	1	25.04	25.52	25.21
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.40	25.57	25.53
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.39	25.58	25.52
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	25.39	25.52	25.52
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.08	/
100	CP-OFDM 16QAM	1	1	/	22.51	/
100	CP-OFDM 64QAM	1	1	/	20.94	/
100	CP-OFDM 256QAM	1	1	/	18.28	/

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	/	24.60	/
100		1	136	/	25.44	/
100		1	271	/	24.83	/
100		135	1	/	24.82	/
100		135	67	/	25.46	/
100		135	136	/	24.91	/
100		270	0	/	24.81	/
100	DFT-s-OFDM	1	1	/	25.64	/
100		1	136	/	25.56	/



100	QPSK	1	271	/	24.87	/
100		135	1	/	25.34	/
100		135	67	/	25.47	/
100		135	136	/	24.31	/
100		270	0	/	24.21	/
100	DFT-s-OFDM 16QAM	1	1	/	23.89	/
100	DFT-s-OFDM 64QAM	1	1	/	22.23	/
100	DFT-s-OFDM 256QAM	1	1	/	20.70	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.12	25.06	25.26
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.19	25.08	25.11
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.38	25.59	25.18
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.58	25.38	25.35
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.25	25.11	25.12
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.50	25.46	25.51
Channel				630500	633334	636166



Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.46	25.51	25.48
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.52	25.51	25.45
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.35	/
100	CP-OFDM 16QAM	1	1	/	22.95	/
100	CP-OFDM 64QAM	1	1	/	21.34	/
100	CP-OFDM 256QAM	1	1	/	18.64	/

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	/	24.26	/
100		1	136	/	25.42	/
100		1	271	/	24.61	/
100		135	1	/	24.63	/
100		135	67	/	25.42	/
100		135	136	/	24.89	/
100		270	0	/	24.73	/
100	DFT-s-OFDM QPSK	1	1	/	25.62	/
100		1	136	/	25.57	/
100		1	271	/	24.62	/
100		135	1	/	25.37	/
100		135	67	/	25.41	/
100		135	136	/	24.21	/
100		270	0	/	24.30	/
100	DFT-s-OFDM 16QAM	1	1	/	23.54	/



100	DFT-s-OFDM 64QAM	1	1	/	21.96	/
100	DFT-s-OFDM 256QAM	1	1	/	20.36	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	25.02	25.10	25.19
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.08	25.02	25.10
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.17	25.18	25.30
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.19	25.37	25.53
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.05	25.15	25.03
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.37	25.58	25.51
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.38	25.58	25.60
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795



10	DFT-s-OFDM QPSK	1	1	25.41	25.61	25.58
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.18	/
100	CP-OFDM 16QAM	1	1	/	22.61	/
100	CP-OFDM 64QAM	1	1	/	21.02	/
100	CP-OFDM 256QAM	1	1	/	18.25	/

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	/	24.60	/
100		1	136	/	25.39	/
100		1	271	/	24.77	/
100		135	1	/	24.53	/
100		135	67	/	25.40	/
100		135	136	/	24.85	/
100		270	0	/	24.78	/
100	DFT-s-OFDM QPSK	1	1	/	25.65	/
100		1	136	/	25.50	/
100		1	271	/	24.81	/
100		135	1	/	24.30	/
100		135	67	/	25.40	/
100		135	136	/	24.33	/
100		270	0	/	24.27	/
100	DFT-s-OFDM 16QAM	1	1	/	23.77	/
100	DFT-s-OFDM 64QAM	1	1	/	22.34	/
100	DFT-s-OFDM 256QAM	1	1	/	20.72	/
Channel				633000	633334	633666



Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.01	25.08	25.06
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.09	25.23	25.11
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.29	25.28	25.25
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.41	25.38	25.41
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.27	25.14	25.06
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.52	25.45	25.54
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.59	25.56	25.52
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.60	25.54	25.51
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.37	/
100	CP-OFDM 16QAM	1	1	/	22.96	/



100	CP-OFDM 64QAM	1	1	/	21.34	/
100	CP-OFDM 256QAM	1	1	/	18.64	/

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	/	24.20	/
100		1	136	/	25.32	/
100		1	271	/	24.48	/
100		135	1	/	24.57	/
100		135	67	/	25.33	/
100		135	136	/	24.72	/
100		270	0	/	24.64	/
100	DFT-s-OFDM QPSK	1	1	/	25.62	/
100		1	136	/	25.42	/
100		1	271	/	24.51	/
100		135	1	/	25.28	/
100		135	67	/	25.32	/
100		135	136	/	24.28	/
100		270	0	/	24.21	/
100	DFT-s-OFDM 16QAM	1	1	/	23.59	/
100	DFT-s-OFDM 64QAM	1	1	/	21.87	/
100	DFT-s-OFDM 256QAM	1	1	/	20.31	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	25.04	25.03	25.19
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.23	25.13	25.04



Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.09	25.13	25.27
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.01	25.33	25.57
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	24.91	24.99	25.08
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.34	25.56	25.48
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.38	25.61	25.57
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	25.39	25.54	25.59
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.05	/
100	CP-OFDM 16QAM	1	1	/	22.53	/
100	CP-OFDM 64QAM	1	1	/	20.97	/
100	CP-OFDM 256QAM	1	1	/	18.29	/



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	/	24.55	/
100		1	136	/	25.42	/
100		1	271	/	24.76	/
100		135	1	/	24.76	/
100		135	67	/	25.40	/
100		135	136	/	24.87	/
100		270	0	/	24.78	/
100	DFT-s-OFDM QPSK	1	1	/	25.59	/
100		1	136	/	25.52	/
100		1	271	/	24.82	/
100		135	1	/	25.30	/
100		135	67	/	25.41	/
100		135	136	/	24.30	/
100		270	0	/	24.29	/
100	DFT-s-OFDM 16QAM	1	1	/	23.90	/
100	DFT-s-OFDM 64QAM	1	1	/	22.25	/
100	DFT-s-OFDM 256QAM	1	1	/	20.71	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.04	25.07	25.01
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.22	25.23	25.07
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.33	25.31	25.26



Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.57	25.37	25.35
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.22	25.07	25.07
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.49	25.47	25.51
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.50	25.52	25.53
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.49	25.52	25.51
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.37	/
100	CP-OFDM 16QAM	1	1	/	22.95	/
100	CP-OFDM 64QAM	1	1	/	21.36	/
100	CP-OFDM 256QAM	1	1	/	18.64	/

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	/	24.14	/
100		1	136	/	25.35	/
100		1	271	/	24.49	/



100		135	1	/	24.53	/
100		135	67	/	25.32	/
100		135	136	/	24.77	/
100		270	0	/	24.65	/
100	DFT-s-OFDM QPSK	1	1	/	25.60	/
100		1	136	/	25.42	/
100		1	271	/	24.51	/
100		135	1	/	25.40	/
100		135	67	/	25.31	/
100		135	136	/	24.29	/
100		270	0	/	24.17	/
100	DFT-s-OFDM 16QAM	1	1	/	23.57	/
100	DFT-s-OFDM 64QAM	1	1	/	21.93	/
100	DFT-s-OFDM 256QAM	1	1	/	20.37	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	25.01	25.15	25.18
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.08	25.04	25.03
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.07	25.14	25.27
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.11	25.42	25.50
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780



40	DFT-s-OFDM QPSK	1	1	25.07	25.10	25.10
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.36	25.49	25.50
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.42	25.55	25.50
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	25.39	25.53	25.52
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.05	/
100	CP-OFDM 16QAM	1	1	/	22.60	/
100	CP-OFDM 64QAM	1	1	/	20.97	/
100	CP-OFDM 256QAM	1	1	/	18.26	/

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	/	24.63	/
100		1	136	/	25.45	/
100		1	271	/	24.81	/
100		135	1	/	24.81	/
100		135	67	/	25.46	/
100		135	136	/	24.94	/
100		270	0	/	24.83	/
100	DFT-s-OFDM	1	1	/	25.61	/
100		1	136	/	25.57	/



100	QPSK	1	271	/	24.85	/
100		135	1	/	25.39	/
100		135	67	/	25.46	/
100		135	136	/	24.33	/
100		270	0	/	24.30	/
100	DFT-s-OFDM 16QAM	1	1	/	23.86	/
100	DFT-s-OFDM 64QAM	1	1	/	22.23	/
100	DFT-s-OFDM 256QAM	1	1	/	20.71	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.06	25.01	25.02
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.05	25.22	25.12
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.48	25.25	25.30
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.40	25.29	25.33
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.26	25.09	25.18
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.52	25.47	25.54
Channel				630500	633334	636166



Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.50	25.55	25.51
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.52	25.49	25.55
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.34	/
100	CP-OFDM 16QAM	1	1	/	22.95	/
100	CP-OFDM 64QAM	1	1	/	21.34	/
100	CP-OFDM 256QAM	1	1	/	18.63	/

DC_ 13A 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	/	24.27	/
100		1	136	/	25.43	/
100		1	271	/	24.58	/
100		135	1	/	24.62	/
100		135	67	/	25.41	/
100		135	136	/	24.85	/
100		270	0	/	24.74	/
100	DFT-s-OFDM QPSK	1	1	/	25.59	/
100		1	136	/	25.48	/
100		1	271	/	24.62	/
100		135	1	/	25.31	/
100		135	67	/	25.42	/
100		135	136	/	24.21	/
100		270	0	/	24.30	/
100	DFT-s-OFDM 16QAM	1	1	/	23.56	/



100	DFT-s-OFDM 64QAM	1	1	/	21.94	/
100	DFT-s-OFDM 256QAM	1	1	/	20.32	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	25.03	25.20	25.15
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	25.04	25.30	25.16
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.13	25.21	25.26
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.15	25.35	25.52
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	25.08	25.11	25.14
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.34	25.55	25.55
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.44	25.43	25.52
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795



10	DFT-s-OFDM QPSK	1	1	25.38	25.55	25.47
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.08	/
100	CP-OFDM 16QAM	1	1	/	22.59	/
100	CP-OFDM 64QAM	1	1	/	20.98	/
100	CP-OFDM 256QAM	1	1	/	18.27	/

DC_ 13A 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	/	24.88	/
100		1	136	/	25.55	/
100		1	271	/	24.89	/
100		135	1	/	24.86	/
100		135	67	/	25.44	/
100		135	136	/	24.89	/
100		270	0	/	24.85	/
100	DFT-s-OFDM QPSK	1	1	/	25.59	/
100		1	136	/	25.58	/
100		1	271	/	24.86	/
100		135	1	/	24.78	/
100		135	67	/	25.48	/
100		135	136	/	24.36	/
100		270	0	/	24.20	/
100	DFT-s-OFDM 16QAM	1	1	/	23.88	/
100	DFT-s-OFDM 64QAM	1	1	/	22.26	/
100	DFT-s-OFDM 256QAM	1	1	/	20.72	/
Channel				633000	633334	633666



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Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	25.04	25.01	25.05
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.03	25.24	25.13
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.40	25.31	25.25
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.42	25.44	25.37
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.21	25.05	25.07
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.52	25.46	25.46
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.45	25.55	25.46
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.48	25.50	25.53
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.31	/
100	CP-OFDM 16QAM	1	1	/	22.96	/



100	CP-OFDM 64QAM	1	1	/	21.34	/
100	CP-OFDM 256QAM	1	1	/	18.62	/

DC_ 25A 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	/	24.68	/
100		1	136	/	25.24	/
100		1	271	/	24.39	/
100		135	1	/	24.48	/
100		135	67	/	25.27	/
100		135	136	/	24.67	/
100		270	0	/	24.56	/
100	DFT-s-OFDM QPSK	1	1	/	25.63	/
100		1	136	/	25.32	/
100		1	271	/	24.43	/
100		135	1	/	25.23	/
100		135	67	/	25.19	/
100		135	136	/	24.30	/
100		270	0	/	24.12	/
100	DFT-s-OFDM 16QAM	1	1	/	23.54	/
100	DFT-s-OFDM 64QAM	1	1	/	21.86	/
100	DFT-s-OFDM 256QAM	1	1	/	20.31	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	24.83	24.91	24.82
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	24.78	24.85	24.96



Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.02	25.15	25.18
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.03	25.30	25.38
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	24.93	25.02	25.08
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.28	25.57	25.47
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.05	25.53	25.61
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	25.34	25.53	25.51
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.05	/
100	CP-OFDM 16QAM	1	1	/	22.59	/
100	CP-OFDM 64QAM	1	1	/	21.05	/
100	CP-OFDM 256QAM	1	1	/	18.26	/

DC_ 25A 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	/	24.78	/
100		1	136	/	25.54	/
100		1	271	/	24.92	/
100		135	1	/	24.90	/
100		135	67	/	24.48	/
100		135	136	/	24.92	/
100		270	0	/	24.93	/
100	DFT-s-OFDM QPSK	1	1	/	25.57	/
100		1	136	/	25.55	/
100		1	271	/	24.92	/
100		135	1	/	25.15	/
100		135	67	/	25.45	/
100		135	136	/	24.28	/
100		270	0	/	24.22	/
100	DFT-s-OFDM 16QAM	1	1	/	23.86	/
100	DFT-s-OFDM 64QAM	1	1	/	22.24	/
100	DFT-s-OFDM 256QAM	1	1	/	20.66	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.90	24.90	25.03
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.11	25.12	25.05
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.33	25.10	25.23
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525



50	DFT-s-OFDM QPSK	1	1	25.41	25.36	25.31
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.18	25.12	25.11
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.50	25.46	25.52
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.51	25.52	25.45
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.52	25.49	25.51
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.53	/
100	CP-OFDM 16QAM	1	1	/	23.02	/
100	CP-OFDM 64QAM	1	1	/	21.38	/
100	CP-OFDM 256QAM	1	1	/	18.60	/

DC_ 26A 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	/	24.80	/
100		1	136	/	25.33	/
100		1	271	/	24.79	/
100		135	1	/	24.82	/
100		135	67	/	25.39	/



100	DFT-s-OFDM QPSK	135	136	/	24.81	/
100		270	0	/	24.80	/
100		1	1	/	25.55	/
100		1	136	/	25.42	/
100		1	271	/	24.72	/
100		135	1	/	25.13	/
100		135	67	/	25.41	/
100		135	136	/	24.38	/
100		270	0	/	24.41	/
100	DFT-s-OFDM 16QAM	1	1	/	23.55	/
100	DFT-s-OFDM 64QAM	1	1	/	21.96	/
100	DFT-s-OFDM 256QAM	1	1	/	20.32	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	25.04	24.70	24.77
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	24.81	25.06	24.93
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.13	25.15	25.15
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.07	25.34	25.50
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	24.97	24.98	25.08
Channel				647334	650000	652666



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Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.04	25.51	25.53
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.44	25.49	25.50
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	25.44	25.44	25.52
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.17	/
100	CP-OFDM 16QAM	1	1	/	22.59	/
100	CP-OFDM 64QAM	1	1	/	20.97	/
100	CP-OFDM 256QAM	1	1	/	18.25	/

DC_ 26A 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	/	24.88	/
100		1	136	/	25.46	/
100		1	271	/	24.82	/
100		135	1	/	24.89	/
100		135	67	/	25.47	/
100		135	136	/	24.90	/
100		270	0	/	24.84	/
100	DFT-s-OFDM QPSK	1	1	/	25.63	/
100		1	136	/	25.56	/
100		1	271	/	24.85	/
100		135	1	/	24.36	/
100		135	67	/	25.47	/



100		135	136	/	24.37	/
100		270	0	/	24.33	/
100	DFT-s-OFDM 16QAM	1	1	/	23.90	/
100	DFT-s-OFDM 64QAM	1	1	/	22.27	/
100	DFT-s-OFDM 256QAM	1	1	/	20.73	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.95	24.96	25.04
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.11	25.13	25.07
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.34	25.32	25.26
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.38	25.41	25.33
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.26	25.18	25.20
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.52	25.45	25.49
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49



15	DFT-s-OFDM QPSK	1	1	25.47	25.55	25.53
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.54	25.52	25.55
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.44	/
100	CP-OFDM 16QAM	1	1	/	22.86	/
100	CP-OFDM 64QAM	1	1	/	21.22	/
100	CP-OFDM 256QAM	1	1	/	18.65	/

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	/	24.78	/
100		1	136	/	25.49	/
100		1	271	/	24.83	/
100		135	1	/	24.87	/
100		135	67	/	25.51	/
100		135	136	/	24.80	/
100		270	0	/	24.83	/
100	DFT-s-OFDM QPSK	1	1	/	25.58	/
100		1	136	/	25.56	/
100		1	271	/	24.53	/
100		135	1	/	24.43	/
100		135	67	/	25.48	/
100		135	136	/	24.44	/
100		270	0	/	24.35	/
100	DFT-s-OFDM 16QAM	1	1	/	23.52	/



100	DFT-s-OFDM 64QAM	1	1	/	21.94	/
100	DFT-s-OFDM 256QAM	1	1	/	20.31	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	25.03	25.06	24.81
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	24.85	24.66	24.92
Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.07	24.91	25.17
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.08	25.32	25.46
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	24.91	24.92	25.10
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.32	25.49	25.48
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.41	25.55	25.55
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795



10	DFT-s-OFDM QPSK	1	1	25.43	25.53	25.51
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.16	/
100	CP-OFDM 16QAM	1	1	/	22.58	/
100	CP-OFDM 64QAM	1	1	/	20.97	/
100	CP-OFDM 256QAM	1	1	/	18.25	/

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	/	24.80	/
100		1	136	/	25.47	/
100		1	271	/	24.84	/
100		135	1	/	24.82	/
100		135	67	/	25.46	/
100		135	136	/	24.90	/
100		270	0	/	24.87	/
100	DFT-s-OFDM QPSK	1	1	/	25.63	/
100		1	136	/	25.59	/
100		1	271	/	24.83	/
100		135	1	/	25.34	/
100		135	67	/	25.49	/
100		135	136	/	24.37	/
100		270	0	/	24.22	/
100	DFT-s-OFDM 16QAM	1	1	/	23.90	/
100	DFT-s-OFDM 64QAM	1	1	/	22.25	/
100	DFT-s-OFDM 256QAM	1	1	/	20.70	/
Channel				633000	633334	633666



Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.92	24.93	24.74
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	24.91	25.14	25.05
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.38	25.09	25.23
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525
50	DFT-s-OFDM QPSK	1	1	25.42	25.36	25.34
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.23	24.71	25.01
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.45	25.46	25.50
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.55	25.52	25.52
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.60	25.58	25.53
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.39	/
100	CP-OFDM 16QAM	1	1	/	22.93	/



100	CP-OFDM 64QAM	1	1	/	21.36	/
100	CP-OFDM 256QAM	1	1	/	18.63	/

DC_ 71A 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	/	24.98	/
100		1	136	/	25.48	/
100		1	271	/	24.97	/
100		135	1	/	24.79	/
100		135	67	/	25.50	/
100		135	136	/	24.94	/
100		270	0	/	24.58	/
100	DFT-s-OFDM QPSK	1	1	/	25.60	/
100		1	136	/	25.58	/
100		1	271	/	24.69	/
100		135	1	/	25.34	/
100		135	67	/	25.50	/
100		135	136	/	24.34	/
100		270	0	/	24.39	/
100	DFT-s-OFDM 16QAM	1	1	/	23.53	/
100	DFT-s-OFDM 64QAM	1	1	/	21.93	/
100	DFT-s-OFDM 256QAM	1	1	/	20.30	/
Channel				649667	650000	650333
Frequency (MHz)				3745.005	3750	3754.995
90	DFT-s-OFDM QPSK	1	1	24.59	24.67	25.03
Channel				649334	650000	650666
Frequency (MHz)				3740.01	3750	3759.99
80	DFT-s-OFDM QPSK	1	1	24.80	24.87	24.98



Channel				648667	650000	651333
Frequency (MHz)				3730.005	3750	3769.995
60	DFT-s-OFDM QPSK	1	1	25.05	25.12	25.17
Channel				648334	650000	651666
Frequency (MHz)				3725.01	3750	3774.99
50	DFT-s-OFDM QPSK	1	1	25.03	25.40	25.54
Channel				648000	650000	652000
Frequency (MHz)				3720	3750	3780
40	DFT-s-OFDM QPSK	1	1	24.91	24.95	25.18
Channel				647334	650000	652666
Frequency (MHz)				3710.01	3750	3789.99
20	DFT-s-OFDM QPSK	1	1	25.39	25.56	25.57
Channel				647167	650000	652833
Frequency (MHz)				3707.505	3750	3792.495
15	DFT-s-OFDM QPSK	1	1	25.37	25.58	25.59
Channel				647000	650000	653000
Frequency (MHz)				3705	3750	3795
10	DFT-s-OFDM QPSK	1	1	25.43	25.51	25.52
Channel				/	650000	/
Frequency (MHz)				/	3750	/
100	CP-OFDM QPSK	1	1	/	23.09	/
100	CP-OFDM 16QAM	1	1	/	22.57	/
100	CP-OFDM 64QAM	1	1	/	21.02	/
100	CP-OFDM 256QAM	1	1	/	18.28	/

DC_ 71A 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	/	24.81	/
100		1	136	/	25.46	/
100		1	271	/	24.91	/
100		135	1	/	24.83	/
100		135	67	/	25.42	/
100		135	136	/	24.90	/
100		270	0	/	24.72	/
100	DFT-s-OFDM QPSK	1	1	/	25.64	/
100		1	136	/	25.62	/
100		1	271	/	24.93	/
100		135	1	/	24.53	/
100		135	67	/	25.44	/
100		135	136	/	24.33	/
100		270	0	/	24.41	/
100	DFT-s-OFDM 16QAM	1	1	/	23.77	/
100	DFT-s-OFDM 64QAM	1	1	/	22.32	/
100	DFT-s-OFDM 256QAM	1	1	/	20.72	/
Channel				633000	633334	633666
Frequency (MHz)				3495	3500.01	3504.99
90	DFT-s-OFDM QPSK	1	1	24.71	24.96	24.67
Channel				632668	633334	634000
Frequency (MHz)				3490.02	3500.01	3510
80	DFT-s-OFDM QPSK	1	1	25.07	25.09	24.81
Channel				632000	633334	634666
Frequency (MHz)				3480	3500.01	3519.99
60	DFT-s-OFDM QPSK	1	1	25.28	24.85	25.30
Channel				631667	633334	635000
Frequency (MHz)				3475.005	3500.01	3525



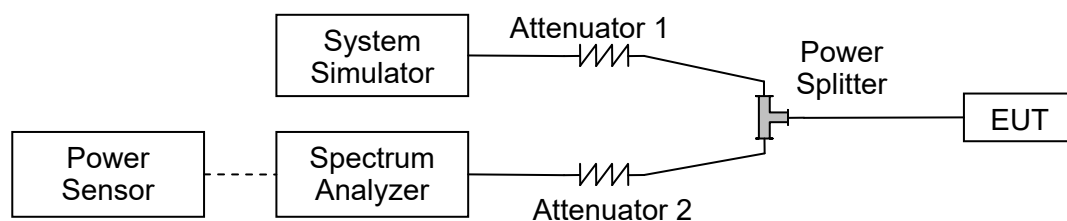
50	DFT-s-OFDM QPSK	1	1	25.42	25.41	25.30
Channel				631334	633334	635332
Frequency (MHz)				3470.01	3500.01	3529.98
40	DFT-s-OFDM QPSK	1	1	25.15	25.13	25.16
Channel				630668	633334	636000
Frequency (MHz)				3460.02	3500.01	3540
20	DFT-s-OFDM QPSK	1	1	25.50	25.43	25.60
Channel				630500	633334	636166
Frequency (MHz)				3457.5	3500.01	3542.49
15	DFT-s-OFDM QPSK	1	1	25.56	25.59	25.54
Channel				630334	633334	636333
Frequency (MHz)				3455.01	3500.01	3544.995
10	DFT-s-OFDM QPSK	1	1	25.52	25.55	25.52
Channel				/	633334	/
Frequency (MHz)				/	3500.01	/
100	CP-OFDM QPSK	1	1	/	23.42	/
100	CP-OFDM 16QAM	1	1	/	23.05	/
100	CP-OFDM 64QAM	1	1	/	21.35	/
100	CP-OFDM 256QAM	1	1	/	18.64	/

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	4.4738	4.825
2	15	5	386500	1852.5	DFT-s-OFDM QPSK	25@0	4.4635	4.841
2	15	5	386500	1852.5	DFT-s-OFDM 16 QAM	25@0	4.4683	4.776
2	15	5	386500	1852.5	DFT-s-OFDM 64 QAM	25@0	4.4653	4.794
2	15	5	386500	1852.5	DFT-s-OFDM 256 QAM	25@0	4.4760	4.836
2	15	5	386500	1852.5	CP-OFDM QPSK	25@0	4.4597	4.829
2	15	5	386500	1852.5	CP-OFDM 16 QAM	25@0	4.4609	4.853
2	15	5	386500	1852.5	CP-OFDM 64 QAM	25@0	4.4608	4.826
2	15	5	386500	1852.5	CP-OFDM 256 QAM	25@0	4.4627	4.844
2	15	5	392000	1880.0	DFT-s-OFDM PI/2 BPSK	25@0	4.4752	4.840
2	15	5	392000	1880.0	DFT-s-OFDM QPSK	25@0	4.4774	4.875
2	15	5	392000	1880.0	DFT-s-OFDM 16 QAM	25@0	4.4764	4.800
2	15	5	392000	1880.0	DFT-s-OFDM 64 QAM	25@0	4.4735	4.818
2	15	5	392000	1880.0	DFT-s-OFDM 256 QAM	25@0	4.4740	4.832
2	15	5	392000	1880.0	CP-OFDM QPSK	25@0	4.4605	4.848
2	15	5	392000	1880.0	CP-OFDM 16 QAM	25@0	4.4594	4.812
2	15	5	392000	1880.0	CP-OFDM 64 QAM	25@0	4.4616	4.895
2	15	5	392000	1880.0	CP-OFDM 256 QAM	25@0	4.4675	4.820



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2	15	5	397500	1907.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4666	4.801
2	15	5	397500	1907.5	DFT-s-OFDM QPSK	25@0	4.4776	4.877
2	15	5	397500	1907.5	DFT-s-OFDM 16 QAM	25@0	4.4645	4.825
2	15	5	397500	1907.5	DFT-s-OFDM 64 QAM	25@0	4.4739	4.799
2	15	5	397500	1907.5	DFT-s-OFDM 256 QAM	25@0	4.4740	4.778
2	15	5	397500	1907.5	CP-OFDM QPSK	25@0	4.4583	4.767
2	15	5	397500	1907.5	CP-OFDM 16 QAM	25@0	4.468	4.809
2	15	5	397500	1907.5	CP-OFDM 64 QAM	25@0	4.4637	4.847
2	15	5	397500	1907.5	CP-OFDM 256 QAM	25@0	4.4673	4.827
2	15	10	387000	1855.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8950	9.484
2	15	10	387000	1855.0	DFT-s-OFDM QPSK	50@0	8.8991	9.447
2	15	10	387000	1855.0	DFT-s-OFDM 16 QAM	50@0	8.8986	9.571
2	15	10	387000	1855.0	DFT-s-OFDM 64 QAM	50@0	8.9087	9.540
2	15	10	387000	1855.0	DFT-s-OFDM 256 QAM	50@0	8.9013	9.488
2	15	10	387000	1855.0	CP-OFDM QPSK	52@0	9.2723	9.887
2	15	10	387000	1855.0	CP-OFDM 16 QAM	52@0	9.2800	9.810
2	15	10	387000	1855.0	CP-OFDM 64 QAM	52@0	9.2743	9.735
2	15	10	387000	1855.0	CP-OFDM 256 QAM	52@0	9.2954	9.907
2	15	10	392000	1880.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9198	9.554



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2	15	10	392000	1880.0	DFT-s-OFDM QPSK	50@0	8.9025	9.441
2	15	10	392000	1880.0	DFT-s-OFDM 16 QAM	50@0	8.9097	9.548
2	15	10	392000	1880.0	DFT-s-OFDM 64 QAM	50@0	8.9047	9.467
2	15	10	392000	1880.0	DFT-s-OFDM 256 QAM	50@0	8.9039	9.565
2	15	10	392000	1880.0	CP-OFDM QPSK	52@0	9.2738	9.832
2	15	10	392000	1880.0	CP-OFDM 16 QAM	52@0	9.2620	9.769
2	15	10	392000	1880.0	CP-OFDM 64 QAM	52@0	9.2798	9.807
2	15	10	392000	1880.0	CP-OFDM 256 QAM	52@0	9.2938	9.827
2	15	10	397000	1905.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9224	9.538
2	15	10	397000	1905.0	DFT-s-OFDM QPSK	50@0	8.9287	9.386
2	15	10	397000	1905.0	DFT-s-OFDM 16 QAM	50@0	8.9126	9.628
2	15	10	397000	1905.0	DFT-s-OFDM 64 QAM	50@0	8.9072	9.502
2	15	10	397000	1905.0	DFT-s-OFDM 256 QAM	50@0	8.9009	9.517
2	15	10	397000	1905.0	CP-OFDM QPSK	52@0	9.2739	9.870
2	15	10	397000	1905.0	CP-OFDM 16 QAM	52@0	9.2990	9.865
2	15	10	397000	1905.0	CP-OFDM 64 QAM	52@0	9.2689	9.834
2	15	10	397000	1905.0	CP-OFDM 256 QAM	52@0	9.2919	9.884
2	15	15	387500	1857.5	DFT-s-OFDM PI/2 BPSK	75@0	13.423	13.98
2	15	15	387500	1857.5	DFT-s-OFDM QPSK	75@0	13.392	14.04



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2	15	15	387500	1857.5	DFT-s-OFDM 16 QAM	75@0	13.405	14.12
2	15	15	387500	1857.5	DFT-s-OFDM 64 QAM	75@0	13.415	14.07
2	15	15	387500	1857.5	DFT-s-OFDM 256 QAM	75@0	13.412	14.03
2	15	15	387500	1857.5	CP-OFDM QPSK	79@0	14.096	14.79
2	15	15	387500	1857.5	CP-OFDM 16 QAM	79@0	14.138	14.74
2	15	15	387500	1857.5	CP-OFDM 64 QAM	79@0	14.113	14.70
2	15	15	387500	1857.5	CP-OFDM 256 QAM	79@0	14.108	14.78
2	15	15	392000	1880.0	DFT-s-OFDM PI/2 BPSK	75@0	13.397	14.09
2	15	15	392000	1880.0	DFT-s-OFDM QPSK	75@0	13.377	14.07
2	15	15	392000	1880.0	DFT-s-OFDM 16 QAM	75@0	13.393	14.15
2	15	15	392000	1880.0	DFT-s-OFDM 64 QAM	75@0	13.399	14.22
2	15	15	392000	1880.0	DFT-s-OFDM 256 QAM	75@0	13.387	13.95
2	15	15	392000	1880.0	CP-OFDM QPSK	79@0	14.087	14.76
2	15	15	392000	1880.0	CP-OFDM 16 QAM	79@0	14.087	14.77
2	15	15	392000	1880.0	CP-OFDM 64 QAM	79@0	14.106	14.75
2	15	15	392000	1880.0	CP-OFDM 256 QAM	79@0	14.109	14.80
2	15	15	396500	1902.5	DFT-s-OFDM PI/2 BPSK	75@0	13.379	14.01
2	15	15	396500	1902.5	DFT-s-OFDM QPSK	75@0	13.389	14.10
2	15	15	396500	1902.5	DFT-s-OFDM 16 QAM	75@0	13.403	14.08



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2	15	15	396500	1902.5	DFT-s-OFDM 64 QAM	75@0	13.386	14.05
2	15	15	396500	1902.5	DFT-s-OFDM 256 QAM	75@0	13.393	14.07
2	15	15	396500	1902.5	CP-OFDM QPSK	79@0	14.076	14.82
2	15	15	396500	1902.5	CP-OFDM 16 QAM	79@0	14.092	14.73
2	15	15	396500	1902.5	CP-OFDM 64 QAM	79@0	14.104	14.72
2	15	15	396500	1902.5	CP-OFDM 256 QAM	79@0	14.093	14.75
2	15	20	388000	1860.0	DFT-s-OFDM PI/2 BPSK	100@0	17.890	19.09
2	15	20	388000	1860.0	DFT-s-OFDM QPSK	100@0	17.886	18.82
2	15	20	388000	1860.0	DFT-s-OFDM 16 QAM	100@0	17.897	19.04
2	15	20	388000	1860.0	DFT-s-OFDM 64 QAM	100@0	17.879	19.01
2	15	20	388000	1860.0	DFT-s-OFDM 256 QAM	100@0	17.893	18.95
2	15	20	388000	1860.0	CP-OFDM QPSK	106@0	18.968	19.78
2	15	20	388000	1860.0	CP-OFDM 16 QAM	106@0	18.903	19.72
2	15	20	388000	1860.0	CP-OFDM 64 QAM	106@0	18.933	19.96
2	15	20	388000	1860.0	CP-OFDM 256 QAM	106@0	18.937	19.89
2	15	20	392000	1880.0	DFT-s-OFDM PI/2 BPSK	100@0	17.885	18.78
2	15	20	392000	1880.0	DFT-s-OFDM QPSK	100@0	17.909	18.61
2	15	20	392000	1880.0	DFT-s-OFDM 16 QAM	100@0	17.853	18.93
2	15	20	392000	1880.0	DFT-s-OFDM 64 QAM	100@0	17.862	18.86



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2	15	20	392000	1880.0	DFT-s-OFDM 256 QAM	100@0	17.874	18.84
2	15	20	392000	1880.0	CP-OFDM QPSK	106@0	18.878	19.89
2	15	20	392000	1880.0	CP-OFDM 16 QAM	106@0	18.916	19.82
2	15	20	392000	1880.0	CP-OFDM 64 QAM	106@0	18.858	19.78
2	15	20	392000	1880.0	CP-OFDM 256 QAM	106@0	18.904	19.92
2	15	20	396000	1900.0	DFT-s-OFDM PI/2 BPSK	100@0	17.869	18.83
2	15	20	396000	1900.0	DFT-s-OFDM QPSK	100@0	17.809	18.80
2	15	20	396000	1900.0	DFT-s-OFDM 16 QAM	100@0	17.881	18.89
2	15	20	396000	1900.0	DFT-s-OFDM 64 QAM	100@0	17.861	18.90
2	15	20	396000	1900.0	DFT-s-OFDM 256 QAM	100@0	17.861	18.68
2	15	20	396000	1900.0	CP-OFDM QPSK	106@0	18.873	19.89
2	15	20	396000	1900.0	CP-OFDM 16 QAM	106@0	18.905	19.72
2	15	20	396000	1900.0	CP-OFDM 64 QAM	106@0	18.866	19.74
2	15	20	396000	1900.0	CP-OFDM 256 QAM	106@0	18.920	19.75
5	15	5	174300	826.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4801	4.633
5	15	5	174300	826.5	DFT-s-OFDM QPSK	25@0	4.4606	4.623
5	15	5	174300	826.5	DFT-s-OFDM 16 QAM	25@0	4.4350	4.601
5	15	5	174300	826.5	DFT-s-OFDM 64 QAM	25@0	4.4941	4.656
5	15	5	174300	826.5	DFT-s-OFDM 256 QAM	25@0	4.4393	4.574



5	15	5	174300	826.5	CP-OFDM QPSK	25@0	4.4745	4.644
5	15	5	174300	826.5	CP-OFDM 16 QAM	25@0	4.4584	4.595
5	15	5	174300	826.5	CP-OFDM 64 QAM	25@0	4.4835	4.602
5	15	5	174300	826.5	CP-OFDM 256 QAM	25@0	4.3463	4.517
5	15	5	176300	836.5	DFT-s- OFDM PI/2 BPSK	25@0	4.5118	4.630
5	15	5	176300	836.5	DFT-s- OFDM QPSK	25@0	4.5054	4.624
5	15	5	176300	836.5	DFT-s- OFDM 16 QAM	25@0	4.5032	4.616
5	15	5	176300	836.5	DFT-s- OFDM 64 QAM	25@0	4.4451	4.594
5	15	5	176300	836.5	DFT-s- OFDM 256 QAM	25@0	4.4441	4.591
5	15	5	176300	836.5	CP-OFDM QPSK	25@0	4.4539	4.560
5	15	5	176300	836.5	CP-OFDM 16 QAM	25@0	4.4489	4.571
5	15	5	176300	836.5	CP-OFDM 64 QAM	25@0	4.4188	4.588
5	15	5	176300	836.5	CP-OFDM 256 QAM	25@0	4.4783	4.582
5	15	5	178300	846.5	DFT-s- OFDM PI/2 BPSK	25@0	4.4185	4.572
5	15	5	178300	846.5	DFT-s- OFDM QPSK	25@0	4.4352	4.583
5	15	5	178300	846.5	DFT-s- OFDM 16 QAM	25@0	4.4343	4.608
5	15	5	178300	846.5	DFT-s- OFDM 64 QAM	25@0	4.5020	4.622
5	15	5	178300	846.5	DFT-s- OFDM 256 QAM	25@0	4.4065	4.553
5	15	5	178300	846.5	CP-OFDM QPSK	25@0	4.4708	4.596



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5	15	5	178300	846.5	CP-OFDM 16 QAM	25@0	4.4368	4.584
5	15	5	178300	846.5	CP-OFDM 64 QAM	25@0	4.4705	4.611
5	15	5	178300	846.5	CP-OFDM 256 QAM	25@0	4.4908	4.592
5	15	10	174800	829.0	DFT-s- OFDM PI/2 BPSK	50@0	8.9054	9.201
5	15	10	174800	829.0	DFT-s- OFDM QPSK	50@0	8.9793	9.367
5	15	10	174800	829.0	DFT-s- OFDM 16 QAM	50@0	9.0158	9.274
5	15	10	174800	829.0	DFT-s- OFDM 64 QAM	50@0	8.8806	9.170
5	15	10	174800	829.0	DFT-s- OFDM 256 QAM	50@0	8.8051	9.102
5	15	10	174800	829.0	CP-OFDM QPSK	52@0	9.1222	9.464
5	15	10	174800	829.0	CP-OFDM 16 QAM	52@0	9.1000	9.485
5	15	10	174800	829.0	CP-OFDM 64 QAM	52@0	9.3231	9.609
5	15	10	174800	829.0	CP-OFDM 256 QAM	52@0	9.2724	9.866
5	15	10	176300	836.5	DFT-s- OFDM PI/2 BPSK	50@0	8.9919	9.209
5	15	10	176300	836.5	DFT-s- OFDM QPSK	50@0	8.9550	9.154
5	15	10	176300	836.5	DFT-s- OFDM 16 QAM	50@0	8.9809	9.236
5	15	10	176300	836.5	DFT-s- OFDM 64 QAM	50@0	8.9419	9.209
5	15	10	176300	836.5	DFT-s- OFDM 256 QAM	50@0	8.9599	9.188
5	15	10	176300	836.5	CP-OFDM QPSK	52@0	9.3128	9.548
5	15	10	176300	836.5	CP-OFDM 16 QAM	52@0	9.3312	9.680



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5	15	10	176300	836.5	CP-OFDM 64 QAM	52@0	9.3426	9.578
5	15	10	176300	836.5	CP-OFDM 256 QAM	52@0	9.2168	9.473
5	15	10	177800	844.0	DFT-s- OFDM PI/2 BPSK	50@0	8.9026	9.650
5	15	10	177800	844.0	DFT-s- OFDM QPSK	50@0	8.8218	9.145
5	15	10	177800	844.0	DFT-s- OFDM 16 QAM	50@0	8.8769	9.198
5	15	10	177800	844.0	DFT-s- OFDM 64 QAM	50@0	8.8719	9.198
5	15	10	177800	844.0	DFT-s- OFDM 256 QAM	50@0	8.8830	9.085
5	15	10	177800	844.0	CP-OFDM QPSK	52@0	9.1632	9.429
5	15	10	177800	844.0	CP-OFDM 16 QAM	52@0	9.2528	9.578
5	15	10	177800	844.0	CP-OFDM 64 QAM	52@0	9.2217	9.509
5	15	10	177800	844.0	CP-OFDM 256 QAM	52@0	9.2864	9.761
5	15	15	175300	831.5	DFT-s- OFDM PI/2 BPSK	75@0	13.553	13.81
5	15	15	175300	831.5	DFT-s- OFDM QPSK	75@0	13.426	13.81
5	15	15	175300	831.5	DFT-s- OFDM 16 QAM	75@0	13.391	13.89
5	15	15	175300	831.5	DFT-s- OFDM 64 QAM	75@0	13.504	13.88
5	15	15	175300	831.5	DFT-s- OFDM 256 QAM	75@0	13.421	14.13
5	15	15	175300	831.5	CP-OFDM QPSK	79@0	13.915	14.32
5	15	15	175300	831.5	CP-OFDM 16 QAM	79@0	14.159	14.49
5	15	15	175300	831.5	CP-OFDM 64 QAM	79@0	14.046	14.59



5	15	15	175300	831.5	CP-OFDM 256 QAM	79@0	14.040	14.38
5	15	15	176300	836.5	DFT-s- OFDM PI/2 BPSK	75@0	13.355	13.76
5	15	15	176300	836.5	DFT-s- OFDM QPSK	75@0	13.331	13.85
5	15	15	176300	836.5	DFT-s- OFDM 16 QAM	75@0	13.419	13.77
5	15	15	176300	836.5	DFT-s- OFDM 64 QAM	75@0	13.354	13.90
5	15	15	176300	836.5	DFT-s- OFDM 256 QAM	75@0	13.278	13.58
5	15	15	176300	836.5	CP-OFDM QPSK	79@0	14.128	14.49
5	15	15	176300	836.5	CP-OFDM 16 QAM	79@0	14.050	14.48
5	15	15	176300	836.5	CP-OFDM 64 QAM	79@0	14.243	14.53
5	15	15	176300	836.5	CP-OFDM 256 QAM	79@0	14.199	14.51
5	15	15	177300	841.5	DFT-s- OFDM PI/2 BPSK	75@0	13.529	13.78
5	15	15	177300	841.5	DFT-s- OFDM QPSK	75@0	13.517	13.85
5	15	15	177300	841.5	DFT-s- OFDM 16 QAM	75@0	13.287	13.71
5	15	15	177300	841.5	DFT-s- OFDM 64 QAM	75@0	13.389	13.94
5	15	15	177300	841.5	DFT-s- OFDM 256 QAM	75@0	13.325	13.70
5	15	15	177300	841.5	CP-OFDM QPSK	79@0	14.081	14.48
5	15	15	177300	841.5	CP-OFDM 16 QAM	79@0	14.201	14.64
5	15	15	177300	841.5	CP-OFDM 64 QAM	79@0	14.110	14.48
5	15	15	177300	841.5	CP-OFDM 256 QAM	79@0	13.926	14.36



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5	15	20	175800	834.0	DFT-s-OFDM PI/2 BPSK	100@0	18.116	18.47
5	15	20	175800	834.0	DFT-s-OFDM QPSK	100@0	18.048	18.54
5	15	20	175800	834.0	DFT-s-OFDM 16 QAM	100@0	17.806	18.35
5	15	20	175800	834.0	DFT-s-OFDM 64 QAM	100@0	17.908	18.39
5	15	20	175800	834.0	DFT-s-OFDM 256 QAM	100@0	17.709	18.35
5	15	20	175800	834.0	CP-OFDM QPSK	106@0	19.014	19.52
5	15	20	175800	834.0	CP-OFDM 16 QAM	106@0	19.024	19.47
5	15	20	175800	834.0	CP-OFDM 64 QAM	106@0	18.496	19.31
5	15	20	175800	834.0	CP-OFDM 256 QAM	106@0	18.931	19.57
5	15	20	176300	836.5	DFT-s-OFDM PI/2 BPSK	100@0	17.869	18.45
5	15	20	176300	836.5	DFT-s-OFDM QPSK	100@0	17.717	18.29
5	15	20	176300	836.5	DFT-s-OFDM 16 QAM	100@0	17.844	18.54
5	15	20	176300	836.5	DFT-s-OFDM 64 QAM	100@0	17.783	18.24
5	15	20	176300	836.5	DFT-s-OFDM 256 QAM	100@0	17.748	18.61
5	15	20	176300	836.5	CP-OFDM QPSK	106@0	18.953	19.52
5	15	20	176300	836.5	CP-OFDM 16 QAM	106@0	19.12	19.55
5	15	20	176300	836.5	CP-OFDM 64 QAM	106@0	18.777	19.37
5	15	20	176300	836.5	CP-OFDM 256 QAM	106@0	18.373	18.99
5	15	20	176800	839.0	DFT-s-OFDM PI/2 BPSK	100@0	17.829	18.30



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5	15	20	176800	839.0	DFT-s-OFDM QPSK	100@0	17.958	18.44
5	15	20	176800	839.0	DFT-s-OFDM 16 QAM	100@0	17.901	18.76
5	15	20	176800	839.0	DFT-s-OFDM 64 QAM	100@0	17.818	18.50
5	15	20	176800	839.0	DFT-s-OFDM 256 QAM	100@0	17.967	18.43
5	15	20	176800	839.0	CP-OFDM QPSK	106@0	18.931	19.77
5	15	20	176800	839.0	CP-OFDM 16 QAM	106@0	18.962	19.69
5	15	20	176800	839.0	CP-OFDM 64 QAM	106@0	18.865	19.41
5	15	20	176800	839.0	CP-OFDM 256 QAM	106@0	18.633	19.23
7	15	10	525000	2505.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9013	9.574
7	15	10	525000	2505.0	DFT-s-OFDM QPSK	50@0	8.9023	9.559
7	15	10	525000	2505.0	DFT-s-OFDM 16 QAM	50@0	8.9224	9.590
7	15	10	525000	2505.0	DFT-s-OFDM 64 QAM	50@0	8.9288	9.493
7	15	10	525000	2505.0	DFT-s-OFDM 256 QAM	50@0	8.9196	9.549
7	15	10	525000	2505.0	CP-OFDM QPSK	52@0	9.2815	9.767
7	15	10	525000	2505.0	CP-OFDM 16 QAM	52@0	9.3092	9.839
7	15	10	525000	2505.0	CP-OFDM 64 QAM	52@0	9.3025	9.846
7	15	10	525000	2505.0	CP-OFDM 256 QAM	52@0	9.2751	11.31
7	15	10	531000	2535.0	DFT-s-OFDM PI/2 BPSK	50@0	8.9052	9.541
7	15	10	531000	2535.0	DFT-s-OFDM QPSK	50@0	8.9110	9.430



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7	15	10	531000	2535.0	DFT-s-OFDM 16 QAM	50@0	8.9231	9.589
7	15	10	531000	2535.0	DFT-s-OFDM 64 QAM	50@0	8.9120	9.412
7	15	10	531000	2535.0	DFT-s-OFDM 256 QAM	50@0	8.9234	9.458
7	15	10	531000	2535.0	CP-OFDM QPSK	52@0	9.2736	9.820
7	15	10	531000	2535.0	CP-OFDM 16 QAM	52@0	9.3158	9.857
7	15	10	531000	2535.0	CP-OFDM 64 QAM	52@0	9.3106	9.813
7	15	10	531000	2535.0	CP-OFDM 256 QAM	52@0	9.2799	9.815
7	15	10	537000	2565.0	DFT-s-OFDM PI/2 BPSK	50@0	8.8900	9.435
7	15	10	537000	2565.0	DFT-s-OFDM QPSK	50@0	8.8825	9.528
7	15	10	537000	2565.0	DFT-s-OFDM 16 QAM	50@0	8.9243	9.540
7	15	10	537000	2565.0	DFT-s-OFDM 64 QAM	50@0	8.9091	9.609
7	15	10	537000	2565.0	DFT-s-OFDM 256 QAM	50@0	8.9161	9.526
7	15	10	537000	2565.0	CP-OFDM QPSK	52@0	9.2736	9.863
7	15	10	537000	2565.0	CP-OFDM 16 QAM	52@0	9.2868	9.756
7	15	10	537000	2565.0	CP-OFDM 64 QAM	52@0	9.2957	9.852
7	15	10	537000	2565.0	CP-OFDM 256 QAM	52@0	9.2960	9.956
7	15	15	525500	2507.5	DFT-s-OFDM PI/2 BPSK	75@0	13.407	14.10
7	15	15	525500	2507.5	DFT-s-OFDM QPSK	75@0	13.426	14.11
7	15	15	525500	2507.5	DFT-s-OFDM 16 QAM	75@0	13.417	14.11



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7	15	15	525500	2507.5	DFT-s-OFDM 64 QAM	75@0	13.416	14.07
7	15	15	525500	2507.5	DFT-s-OFDM 256 QAM	75@0	13.397	14.08
7	15	15	525500	2507.5	CP-OFDM QPSK	79@0	14.098	14.78
7	15	15	525500	2507.5	CP-OFDM 16 QAM	79@0	14.140	14.81
7	15	15	525500	2507.5	CP-OFDM 64 QAM	79@0	14.081	15.11
7	15	15	525500	2507.5	CP-OFDM 256 QAM	79@0	14.091	14.78
7	15	15	531000	2535.0	DFT-s-OFDM PI/2 BPSK	75@0	13.393	14.09
7	15	15	531000	2535.0	DFT-s-OFDM QPSK	75@0	13.384	14.03
7	15	15	531000	2535.0	DFT-s-OFDM 16 QAM	75@0	13.419	14.15
7	15	15	531000	2535.0	DFT-s-OFDM 64 QAM	75@0	13.402	14.06
7	15	15	531000	2535.0	DFT-s-OFDM 256 QAM	75@0	13.401	13.98
7	15	15	531000	2535.0	CP-OFDM QPSK	79@0	14.102	14.77
7	15	15	531000	2535.0	CP-OFDM 16 QAM	79@0	14.100	14.82
7	15	15	531000	2535.0	CP-OFDM 64 QAM	79@0	14.108	14.73
7	15	15	531000	2535.0	CP-OFDM 256 QAM	79@0	14.097	14.67
7	15	15	536500	2562.5	DFT-s-OFDM PI/2 BPSK	75@0	13.401	14.15
7	15	15	536500	2562.5	DFT-s-OFDM QPSK	75@0	13.423	14.19
7	15	15	536500	2562.5	DFT-s-OFDM 16 QAM	75@0	13.396	14.10
7	15	15	536500	2562.5	DFT-s-OFDM 64 QAM	75@0	13.373	14.19



7	15	15	536500	2562.5	DFT-s-OFDM 256 QAM	75@0	13.380	14.10
7	15	15	536500	2562.5	CP-OFDM QPSK	79@0	14.077	14.85
7	15	15	536500	2562.5	CP-OFDM 16 QAM	79@0	14.115	14.80
7	15	15	536500	2562.5	CP-OFDM 64 QAM	79@0	14.090	14.69
7	15	15	536500	2562.5	CP-OFDM 256 QAM	79@0	14.079	14.75
7	15	20	526000	2510.0	DFT-s-OFDM PI/2 BPSK	100@0	17.862	18.89
7	15	20	526000	2510.0	DFT-s-OFDM QPSK	100@0	17.893	18.90
7	15	20	526000	2510.0	DFT-s-OFDM 16 QAM	100@0	17.940	18.86
7	15	20	526000	2510.0	DFT-s-OFDM 64 QAM	100@0	17.877	18.95
7	15	20	526000	2510.0	DFT-s-OFDM 256 QAM	100@0	17.872	18.80
7	15	20	526000	2510.0	CP-OFDM QPSK	106@0	18.897	21.38
7	15	20	526000	2510.0	CP-OFDM 16 QAM	106@0	18.952	21.24
7	15	20	526000	2510.0	CP-OFDM 64 QAM	106@0	18.931	19.80
7	15	20	526000	2510.0	CP-OFDM 256 QAM	106@0	18.953	19.70
7	15	20	531000	2535.0	DFT-s-OFDM PI/2 BPSK	100@0	17.877	18.81
7	15	20	531000	2535.0	DFT-s-OFDM QPSK	100@0	17.884	18.71
7	15	20	531000	2535.0	DFT-s-OFDM 16 QAM	100@0	17.910	18.84
7	15	20	531000	2535.0	DFT-s-OFDM 64 QAM	100@0	17.881	18.90
7	15	20	531000	2535.0	DFT-s-OFDM 256 QAM	100@0	17.886	18.90



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7	15	20	531000	2535.0	CP-OFDM QPSK	106@0	18.929	19.82
7	15	20	531000	2535.0	CP-OFDM 16 QAM	106@0	18.909	19.89
7	15	20	531000	2535.0	CP-OFDM 64 QAM	106@0	18.927	19.78
7	15	20	531000	2535.0	CP-OFDM 256 QAM	106@0	18.935	19.80
7	15	20	536000	2560.0	DFT-s- OFDM PI/2 BPSK	100@0	17.881	18.89
7	15	20	536000	2560.0	DFT-s- OFDM QPSK	100@0	17.889	18.80
7	15	20	536000	2560.0	DFT-s- OFDM 16 QAM	100@0	17.953	18.87
7	15	20	536000	2560.0	DFT-s- OFDM 64 QAM	100@0	17.903	18.84
7	15	20	536000	2560.0	DFT-s- OFDM 256 QAM	100@0	17.896	18.98
7	15	20	536000	2560.0	CP-OFDM QPSK	106@0	18.928	19.73
7	15	20	536000	2560.0	CP-OFDM 16 QAM	106@0	18.913	19.67
7	15	20	536000	2560.0	CP-OFDM 64 QAM	106@0	18.915	19.86
7	15	20	536000	2560.0	CP-OFDM 256 QAM	106@0	18.897	19.75
38	30	10	515000	2575	DFT-s- OFDM PI/2 BPSK	24@0	8.5877	9.354
38	30	10	515000	2575	DFT-s- OFDM QPSK	24@0	8.5913	9.252
38	30	10	515000	2575	DFT-s- OFDM 16 QAM	24@0	8.5493	9.329
38	30	10	515000	2575	DFT-s- OFDM 64 QAM	24@0	8.5499	9.134
38	30	10	515000	2575	DFT-s- OFDM 256 QAM	24@0	8.5610	9.124
38	30	10	515000	2575	CP-OFDM QPSK	24@0	8.5822	9.418



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38	30	10	515000	2575	CP-OFDM 16 QAM	24@0	8.6039	9.263
38	30	10	515000	2575	CP-OFDM 64 QAM	24@0	8.6036	9.457
38	30	10	515000	2575	CP-OFDM 256 QAM	24@0	8.5931	9.210
38	30	10	519000	2595	DFT-s- OFDM PI/2 BPSK	24@0	8.6229	10.34
38	30	10	519000	2595	DFT-s- OFDM QPSK	24@0	8.5867	9.171
38	30	10	519000	2595	DFT-s- OFDM 16 QAM	24@0	8.5613	9.188
38	30	10	519000	2595	DFT-s- OFDM 64 QAM	24@0	8.5766	9.338
38	30	10	519000	2595	DFT-s- OFDM 256 QAM	24@0	8.5510	9.472
38	30	10	519000	2595	CP-OFDM QPSK	24@0	8.5895	9.794
38	30	10	519000	2595	CP-OFDM 16 QAM	24@0	8.5826	9.264
38	30	10	519000	2595	CP-OFDM 64 QAM	24@0	8.5968	9.157
38	30	10	519000	2595	CP-OFDM 256 QAM	24@0	8.5842	9.196
38	30	10	523000	2615	DFT-s- OFDM PI/2 BPSK	24@0	8.5776	9.401
38	30	10	523000	2615	DFT-s- OFDM QPSK	24@0	8.5564	9.164
38	30	10	523000	2615	DFT-s- OFDM 16 QAM	24@0	8.5835	9.470
38	30	10	523000	2615	DFT-s- OFDM 64 QAM	24@0	8.5900	9.163
38	30	10	523000	2615	DFT-s- OFDM 256 QAM	24@0	8.5544	9.174
38	30	10	523000	2615	CP-OFDM QPSK	24@0	8.5785	9.329
38	30	10	523000	2615	CP-OFDM 16 QAM	24@0	8.5618	9.358



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38	30	10	523000	2615	CP-OFDM 64 QAM	24@0	8.5619	9.344
38	30	10	523000	2615	CP-OFDM 256 QAM	24@0	8.5791	9.206
38	30	15	515500	2577.5	DFT-s- OFDM PI/2 BPSK	36@0	12.865	13.71
38	30	15	515500	2577.5	DFT-s- OFDM QPSK	36@0	12.909	13.88
38	30	15	515500	2577.5	DFT-s- OFDM 16 QAM	36@0	12.862	13.29
38	30	15	515500	2577.5	DFT-s- OFDM 64 QAM	36@0	12.874	13.74
38	30	15	515500	2577.5	DFT-s- OFDM 256 QAM	36@0	12.865	13.84
38	30	15	515500	2577.5	CP-OFDM QPSK	38@0	13.562	14.33
38	30	15	515500	2577.5	CP-OFDM 16 QAM	38@0	13.576	14.44
38	30	15	515500	2577.5	CP-OFDM 64 QAM	38@0	13.558	14.34
38	30	15	515500	2577.5	CP-OFDM 256 QAM	38@0	13.554	14.27
38	30	15	519000	2595	DFT-s- OFDM PI/2 BPSK	36@0	12.791	13.76
38	30	15	519000	2595	DFT-s- OFDM QPSK	36@0	12.947	13.72
38	30	15	519000	2595	DFT-s- OFDM 16 QAM	36@0	12.839	13.75
38	30	15	519000	2595	DFT-s- OFDM 64 QAM	36@0	12.788	13.70
38	30	15	519000	2595	DFT-s- OFDM 256 QAM	36@0	12.812	13.60
38	30	15	519000	2595	CP-OFDM QPSK	38@0	13.589	14.36
38	30	15	519000	2595	CP-OFDM 16 QAM	38@0	13.615	14.28
38	30	15	519000	2595	CP-OFDM 64 QAM	38@0	13.521	14.24



38	30	15	519000	2595	CP-OFDM 256 QAM	38@0	13.580	14.48
38	30	15	522500	2612.5	DFT-s- OFDM PI/2 BPSK	36@0	12.840	15.61
38	30	15	522500	2612.5	DFT-s- OFDM QPSK	36@0	12.853	13.86
38	30	15	522500	2612.5	DFT-s- OFDM 16 QAM	36@0	12.843	13.48
38	30	15	522500	2612.5	DFT-s- OFDM 64 QAM	36@0	12.818	13.50
38	30	15	522500	2612.5	DFT-s- OFDM 256 QAM	36@0	12.867	13.54
38	30	15	522500	2612.5	CP-OFDM QPSK	38@0	13.535	14.3
38	30	15	522500	2612.5	CP-OFDM 16 QAM	38@0	13.596	14.65
38	30	15	522500	2612.5	CP-OFDM 64 QAM	38@0	13.589	14.33
38	30	15	522500	2612.5	CP-OFDM 256 QAM	38@0	13.534	14.46
38	30	20	516000	2580	DFT-s- OFDM PI/2 BPSK	50@0	17.870	18.66
38	30	20	516000	2580	DFT-s- OFDM QPSK	50@0	17.789	18.87
38	30	20	516000	2580	DFT-s- OFDM 16 QAM	50@0	17.849	18.63
38	30	20	516000	2580	DFT-s- OFDM 64 QAM	50@0	17.822	18.63
38	30	20	516000	2580	DFT-s- OFDM 256 QAM	50@0	17.851	18.65
38	30	20	516000	2580	CP-OFDM QPSK	51@0	18.216	19.41
38	30	20	516000	2580	CP-OFDM 16 QAM	51@0	18.216	19.24
38	30	20	516000	2580	CP-OFDM 64 QAM	51@0	18.223	19.25
38	30	20	516000	2580	CP-OFDM 256 QAM	51@0	18.258	19.23



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38	30	20	519000	2595	DFT-s-OFDM PI/2 BPSK	50@0	17.799	19.00
38	30	20	519000	2595	DFT-s-OFDM QPSK	50@0	17.774	18.69
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	50@0	17.809	18.72
38	30	20	519000	2595	DFT-s-OFDM 64 QAM	50@0	17.810	18.54
38	30	20	519000	2595	DFT-s-OFDM 256 QAM	50@0	17.866	18.57
38	30	20	519000	2595	CP-OFDM QPSK	51@0	18.168	19.11
38	30	20	519000	2595	CP-OFDM 16 QAM	51@0	18.229	18.98
38	30	20	519000	2595	CP-OFDM 64 QAM	51@0	18.197	19.11
38	30	20	519000	2595	CP-OFDM 256 QAM	51@0	18.199	18.99
38	30	20	522000	2610	DFT-s-OFDM PI/2 BPSK	50@0	17.844	19.15
38	30	20	522000	2610	DFT-s-OFDM QPSK	50@0	17.759	18.65
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	50@0	17.802	19.15
38	30	20	522000	2610	DFT-s-OFDM 64 QAM	50@0	17.836	18.77
38	30	20	522000	2610	DFT-s-OFDM 256 QAM	50@0	17.829	18.99
38	30	20	522000	2610	CP-OFDM QPSK	51@0	18.234	18.95
38	30	20	522000	2610	CP-OFDM 16 QAM	51@0	18.210	19.11
38	30	20	522000	2610	CP-OFDM 64 QAM	51@0	18.158	19.16
38	30	20	522000	2610	CP-OFDM 256 QAM	51@0	18.253	19.01
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	100@0	35.668	37.37



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38	30	40	518000	2590	DFT-s-OFDM QPSK	100@0	35.609	36.92
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	100@0	35.713	37.26
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	100@0	35.648	36.96
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	100@0	35.745	37.42
38	30	40	518000	2590	CP-OFDM QPSK	106@0	37.794	39.21
38	30	40	518000	2590	CP-OFDM 16 QAM	106@0	37.977	39.45
38	30	40	518000	2590	CP-OFDM 64 QAM	106@0	37.785	39.42
38	30	40	518000	2590	CP-OFDM 256 QAM	106@0	37.685	39.57
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	100@0	35.683	37.22
38	30	40	519000	2595	DFT-s-OFDM QPSK	100@0	35.755	37.37
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	100@0	35.735	37.40
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	100@0	35.734	37.23
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	100@0	35.672	37.33
38	30	40	519000	2595	CP-OFDM QPSK	106@0	37.703	39.55
38	30	40	519000	2595	CP-OFDM 16 QAM	106@0	37.693	39.28
38	30	40	519000	2595	CP-OFDM 64 QAM	106@0	37.822	39.39
38	30	40	519000	2595	CP-OFDM 256 QAM	106@0	37.831	39.31
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	100@0	35.708	37.13
38	30	40	520000	2600	DFT-s-OFDM QPSK	100@0	35.658	37.02



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38	30	40	520000	2600	DFT-s-OFDM 16 QAM	100@0	35.791	37.94
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	100@0	35.750	37.15
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	100@0	35.793	37.48
38	30	40	520000	2600	CP-OFDM QPSK	106@0	37.876	39.27
38	30	40	520000	2600	CP-OFDM 16 QAM	106@0	37.861	39.22
38	30	40	520000	2600	CP-OFDM 64 QAM	106@0	37.800	39.10
38	30	40	520000	2600	CP-OFDM 256 QAM	106@0	37.915	39.51
41	30	10	500202	2501.01	DFT-s-OFDM PI/2 BPSK	24@0	8.6186	9.304
41	30	10	500202	2501.01	DFT-s-OFDM QPSK	24@0	8.5558	9.166
41	30	10	500202	2501.01	DFT-s-OFDM 16 QAM	24@0	8.5928	9.278
41	30	10	500202	2501.01	DFT-s-OFDM 64 QAM	24@0	8.5708	9.230
41	30	10	500202	2501.01	DFT-s-OFDM 256 QAM	24@0	8.5390	9.179
41	30	10	500202	2501.01	CP-OFDM QPSK	24@0	8.5626	9.297
41	30	10	500202	2501.01	CP-OFDM 16 QAM	24@0	8.5681	9.501
41	30	10	500202	2501.01	CP-OFDM 64 QAM	24@0	8.5538	9.212
41	30	10	500202	2501.01	CP-OFDM 256 QAM	24@0	8.5815	9.114
41	30	10	518598	2592.99	DFT-s-OFDM PI/2 BPSK	24@0	8.5608	9.190
41	30	10	518598	2592.99	DFT-s-OFDM QPSK	24@0	8.5551	9.270
41	30	10	518598	2592.99	DFT-s-OFDM 16 QAM	24@0	8.5881	9.315



41	30	10	518598	2592.99	DFT-s-OFDM 64 QAM	24@0	8.5968	9.183
41	30	10	518598	2592.99	DFT-s-OFDM 256 QAM	24@0	8.5719	9.208
41	30	10	518598	2592.99	CP-OFDM QPSK	24@0	8.5705	9.210
41	30	10	518598	2592.99	CP-OFDM 16 QAM	24@0	8.6163	9.276
41	30	10	518598	2592.99	CP-OFDM 64 QAM	24@0	8.5736	9.119
41	30	10	518598	2592.99	CP-OFDM 256 QAM	24@0	8.5629	9.217
41	30	10	537000	2685	DFT-s-OFDM PI/2 BPSK	24@0	8.5887	9.237
41	30	10	537000	2685	DFT-s-OFDM QPSK	24@0	8.5269	9.267
41	30	10	537000	2685	DFT-s-OFDM 16 QAM	24@0	8.5577	9.220
41	30	10	537000	2685	DFT-s-OFDM 64 QAM	24@0	8.5784	9.317
41	30	10	537000	2685	DFT-s-OFDM 256 QAM	24@0	8.5592	9.151
41	30	10	537000	2685	CP-OFDM QPSK	24@0	8.5729	9.227
41	30	10	537000	2685	CP-OFDM 16 QAM	24@0	8.5860	9.186
41	30	10	537000	2685	CP-OFDM 64 QAM	24@0	8.5889	9.405
41	30	10	537000	2685	CP-OFDM 256 QAM	24@0	8.5866	9.143
41	30	15	500700	2503.5	DFT-s-OFDM PI/2 BPSK	36@0	12.813	13.99
41	30	15	500700	2503.5	DFT-s-OFDM QPSK	36@0	12.808	13.76
41	30	15	500700	2503.5	DFT-s-OFDM 16 QAM	36@0	12.842	13.57
41	30	15	500700	2503.5	DFT-s-OFDM 64 QAM	36@0	12.790	13.75



41	30	15	500700	2503.5	DFT-s-OFDM 256 QAM	36@0	12.852	13.82
41	30	15	500700	2503.5	CP-OFDM QPSK	38@0	13.614	14.54
41	30	15	500700	2503.5	CP-OFDM 16 QAM	38@0	13.552	14.36
41	30	15	500700	2503.5	CP-OFDM 64 QAM	38@0	13.593	14.51
41	30	15	500700	2503.5	CP-OFDM 256 QAM	38@0	13.580	14.34
41	30	15	518598	2592.99	DFT-s-OFDM PI/2 BPSK	36@0	12.835	13.60
41	30	15	518598	2592.99	DFT-s-OFDM QPSK	36@0	12.824	13.79
41	30	15	518598	2592.99	DFT-s-OFDM 16 QAM	36@0	12.823	13.73
41	30	15	518598	2592.99	DFT-s-OFDM 64 QAM	36@0	12.820	13.79
41	30	15	518598	2592.99	DFT-s-OFDM 256 QAM	36@0	12.861	13.73
41	30	15	518598	2592.99	CP-OFDM QPSK	38@0	13.595	14.55
41	30	15	518598	2592.99	CP-OFDM 16 QAM	38@0	13.575	14.56
41	30	15	518598	2592.99	CP-OFDM 64 QAM	38@0	13.553	14.33
41	30	15	518598	2592.99	CP-OFDM 256 QAM	38@0	13.567	14.34
41	30	15	536496	2682.48	DFT-s-OFDM PI/2 BPSK	36@0	12.855	14.02
41	30	15	536496	2682.48	DFT-s-OFDM QPSK	36@0	12.863	13.92
41	30	15	536496	2682.48	DFT-s-OFDM 16 QAM	36@0	12.849	13.87
41	30	15	536496	2682.48	DFT-s-OFDM 64 QAM	36@0	12.834	13.83
41	30	15	536496	2682.48	DFT-s-OFDM 256 QAM	36@0	12.877	13.73



41	30	15	536496	2682.48	CP-OFDM QPSK	38@0	13.550	14.27
41	30	15	536496	2682.48	CP-OFDM 16 QAM	38@0	13.588	14.48
41	30	15	536496	2682.48	CP-OFDM 64 QAM	38@0	13.580	14.36
41	30	15	536496	2682.48	CP-OFDM 256 QAM	38@0	13.556	14.54
41	30	20	501204	2506.02	DFT-s- OFDM PI/2 BPSK	50@0	17.833	18.56
41	30	20	501204	2506.02	DFT-s- OFDM QPSK	50@0	17.759	18.79
41	30	20	501204	2506.02	DFT-s- OFDM 16 QAM	50@0	17.838	18.78
41	30	20	501204	2506.02	DFT-s- OFDM 64 QAM	50@0	17.832	18.91
41	30	20	501204	2506.02	DFT-s- OFDM 256 QAM	50@0	17.831	18.68
41	30	20	501204	2506.02	CP-OFDM QPSK	51@0	18.178	19.17
41	30	20	501204	2506.02	CP-OFDM 16 QAM	51@0	18.179	18.9
41	30	20	501204	2506.02	CP-OFDM 64 QAM	51@0	18.192	19.11
41	30	20	501204	2506.02	CP-OFDM 256 QAM	51@0	18.205	19.07
41	30	20	518598	2592.99	DFT-s- OFDM PI/2 BPSK	50@0	17.818	18.93
41	30	20	518598	2592.99	DFT-s- OFDM QPSK	50@0	17.756	18.75
41	30	20	518598	2592.99	DFT-s- OFDM 16 QAM	50@0	17.810	19.04
41	30	20	518598	2592.99	DFT-s- OFDM 64 QAM	50@0	17.784	18.52
41	30	20	518598	2592.99	DFT-s- OFDM 256 QAM	50@0	17.783	18.49
41	30	20	518598	2592.99	CP-OFDM QPSK	51@0	18.256	19.07



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41	30	20	518598	2592.99	CP-OFDM 16 QAM	51@0	18.180	19.33
41	30	20	518598	2592.99	CP-OFDM 64 QAM	51@0	18.203	19.20
41	30	20	518598	2592.99	CP-OFDM 256 QAM	51@0	18.203	19.32
41	30	20	535998	2679.99	DFT-s- OFDM PI/2 BPSK	50@0	17.763	19.11
41	30	20	535998	2679.99	DFT-s- OFDM QPSK	50@0	17.759	18.83
41	30	20	535998	2679.99	DFT-s- OFDM 16 QAM	50@0	17.809	18.68
41	30	20	535998	2679.99	DFT-s- OFDM 64 QAM	50@0	17.830	18.70
41	30	20	535998	2679.99	DFT-s- OFDM 256 QAM	50@0	17.856	18.87
41	30	20	535998	2679.99	CP-OFDM QPSK	51@0	18.209	19.15
41	30	20	535998	2679.99	CP-OFDM 16 QAM	51@0	18.194	19.04
41	30	20	535998	2679.99	CP-OFDM 64 QAM	51@0	18.263	19.54
41	30	20	535998	2679.99	CP-OFDM 256 QAM	51@0	18.194	19.14
41	30	30	502200	2511	DFT-s- OFDM PI/2 BPSK	75@0	26.839	27.89
41	30	30	502200	2511	DFT-s- OFDM QPSK	75@0	26.701	28.15
41	30	30	502200	2511	DFT-s- OFDM 16 QAM	75@0	26.697	28.04
41	30	30	502200	2511	DFT-s- OFDM 64 QAM	75@0	26.753	28.35
41	30	30	502200	2511	DFT-s- OFDM 256 QAM	75@0	26.686	28.18
41	30	30	502200	2511	CP-OFDM QPSK	78@0	27.946	29.13
41	30	30	502200	2511	CP-OFDM 16 QAM	78@0	27.790	29.26



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41	30	30	502200	2511	CP-OFDM 64 QAM	78@0	27.831	28.89
41	30	30	502200	2511	CP-OFDM 256 QAM	78@0	27.862	29.08
41	30	30	518598	2592.99	DFT-s- OFDM PI/2 BPSK	75@0	26.871	28.06
41	30	30	518598	2592.99	DFT-s- OFDM QPSK	75@0	26.777	27.96
41	30	30	518598	2592.99	DFT-s- OFDM 16 QAM	75@0	26.716	28.20
41	30	30	518598	2592.99	DFT-s- OFDM 64 QAM	75@0	26.766	28.20
41	30	30	518598	2592.99	DFT-s- OFDM 256 QAM	75@0	26.768	28.02
41	30	30	518598	2592.99	CP-OFDM QPSK	78@0	27.858	29.00
41	30	30	518598	2592.99	CP-OFDM 16 QAM	78@0	27.815	29.06
41	30	30	518598	2592.99	CP-OFDM 64 QAM	78@0	27.749	29.13
41	30	30	518598	2592.99	CP-OFDM 256 QAM	78@0	27.776	29.14
41	30	30	534996	2674.98	DFT-s- OFDM PI/2 BPSK	75@0	26.847	28.31
41	30	30	534996	2674.98	DFT-s- OFDM QPSK	75@0	26.744	28.07
41	30	30	534996	2674.98	DFT-s- OFDM 16 QAM	75@0	26.825	28.01
41	30	30	534996	2674.98	DFT-s- OFDM 64 QAM	75@0	26.801	28.26
41	30	30	534996	2674.98	DFT-s- OFDM 256 QAM	75@0	26.711	27.77
41	30	30	534996	2674.98	CP-OFDM QPSK	78@0	27.808	29.09
41	30	30	534996	2674.98	CP-OFDM 16 QAM	78@0	27.829	28.90
41	30	30	534996	2674.98	CP-OFDM 64 QAM	78@0	27.643	29.40



41	30	30	534996	2674.98	CP-OFDM 256 QAM	78@0	27.815	29.05
41	30	40	503202	2516.01	DFT-s- OFDM PI/2 BPSK	100@0	35.802	37.60
41	30	40	503202	2516.01	DFT-s- OFDM QPSK	100@0	35.602	37.27
41	30	40	503202	2516.01	DFT-s- OFDM 16 QAM	100@0	35.721	37.06
41	30	40	503202	2516.01	DFT-s- OFDM 64 QAM	100@0	35.629	37.02
41	30	40	503202	2516.01	DFT-s- OFDM 256 QAM	100@0	35.713	37.35
41	30	40	503202	2516.01	CP-OFDM QPSK	106@0	37.808	39.29
41	30	40	503202	2516.01	CP-OFDM 16 QAM	106@0	37.817	39.34
41	30	40	503202	2516.01	CP-OFDM 64 QAM	106@0	37.810	39.62
41	30	40	503202	2516.01	CP-OFDM 256 QAM	106@0	37.832	39.14
41	30	40	518598	2592.99	DFT-s- OFDM PI/2 BPSK	100@0	35.780	37.11
41	30	40	518598	2592.99	DFT-s- OFDM QPSK	100@0	35.746	37.19
41	30	40	518598	2592.99	DFT-s- OFDM 16 QAM	100@0	35.639	37.54
41	30	40	518598	2592.99	DFT-s- OFDM 64 QAM	100@0	35.769	37.34
41	30	40	518598	2592.99	DFT-s- OFDM 256 QAM	100@0	35.764	37.49
41	30	40	518598	2592.99	CP-OFDM QPSK	106@0	37.780	39.5
41	30	40	518598	2592.99	CP-OFDM 16 QAM	106@0	37.858	39.31
41	30	40	518598	2592.99	CP-OFDM 64 QAM	106@0	37.858	39.61
41	30	40	518598	2592.99	CP-OFDM 256 QAM	106@0	37.761	39.07



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41	30	40	534000	2670	DFT-s-OFDM PI/2 BPSK	100@0	35.756	37.12
41	30	40	534000	2670	DFT-s-OFDM QPSK	100@0	35.708	37.18
41	30	40	534000	2670	DFT-s-OFDM 16 QAM	100@0	35.745	37.33
41	30	40	534000	2670	DFT-s-OFDM 64 QAM	100@0	35.707	37.38
41	30	40	534000	2670	DFT-s-OFDM 256 QAM	100@0	35.770	37.87
41	30	40	534000	2670	CP-OFDM QPSK	106@0	37.789	39.17
41	30	40	534000	2670	CP-OFDM 16 QAM	106@0	37.855	39.27
41	30	40	534000	2670	CP-OFDM 64 QAM	106@0	37.859	39.23
41	30	40	534000	2670	CP-OFDM 256 QAM	106@0	37.726	39.47
41	30	50	504204	2521.02	DFT-s-OFDM PI/2 BPSK	128@0	45.584	47.23
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	128@0	45.570	47.29
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	128@0	45.735	48.06
41	30	50	504204	2521.02	DFT-s-OFDM 64 QAM	128@0	45.614	47.47
41	30	50	504204	2521.02	DFT-s-OFDM 256 QAM	128@0	45.651	47.57
41	30	50	504204	2521.02	CP-OFDM QPSK	133@0	47.419	49.29
41	30	50	504204	2521.02	CP-OFDM 16 QAM	133@0	47.370	49.59
41	30	50	504204	2521.02	CP-OFDM 64 QAM	133@0	47.354	49.44
41	30	50	504204	2521.02	CP-OFDM 256 QAM	133@0	47.337	49.56
41	30	50	518598	2521.02	DFT-s-OFDM PI/2 BPSK	128@0	45.463	47.93



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41	30	50	518598	2592.99	DFT-s-OFDM QPSK	128@0	45.790	47.39
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	128@0	45.699	47.38
41	30	50	518598	2592.99	DFT-s-OFDM 64 QAM	128@0	45.655	47.37
41	30	50	518598	2592.99	DFT-s-OFDM 256 QAM	128@0	45.753	48.11
41	30	50	518598	2592.99	CP-OFDM QPSK	133@0	47.478	49.46
41	30	50	518598	2592.99	CP-OFDM 16 QAM	133@0	47.521	49.74
41	30	50	518598	2592.99	CP-OFDM 64 QAM	133@0	47.578	49.44
41	30	50	518598	2592.99	CP-OFDM 256 QAM	133@0	47.349	49.22
41	30	50	532998	2664.99	DFT-s-OFDM PI/2 BPSK	128@0	45.679	47.20
41	30	50	532998	2664.99	DFT-s-OFDM QPSK	128@0	45.651	47.32
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	128@0	45.675	47.50
41	30	50	532998	2664.99	DFT-s-OFDM 64 QAM	128@0	45.810	47.50
41	30	50	532998	2664.99	DFT-s-OFDM 256 QAM	128@0	45.666	47.44
41	30	50	532998	2664.99	CP-OFDM QPSK	133@0	47.422	49.24
41	30	50	532998	2664.99	CP-OFDM 16 QAM	133@0	47.326	49.44
41	30	50	532998	2664.99	CP-OFDM 64 QAM	133@0	47.408	49.21
41	30	50	532998	2664.99	CP-OFDM 256 QAM	133@0	47.413	49.09
41	30	60	505200	2526	DFT-s-OFDM PI/2 BPSK	162@0	57.870	59.68
41	30	60	505200	2526	DFT-s-OFDM QPSK	162@0	57.918	59.81



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41	30	60	505200	2526	DFT-s-OFDM 16 QAM	162@0	57.884	59.82
41	30	60	505200	2526	DFT-s-OFDM 64 QAM	162@0	57.820	59.69
41	30	60	505200	2526	DFT-s-OFDM 256 QAM	162@0	57.873	59.72
41	30	60	505200	2526	CP-OFDM QPSK	162@0	57.713	59.72
41	30	60	505200	2526	CP-OFDM 16 QAM	162@0	57.696	59.68
41	30	60	505200	2526	CP-OFDM 64 QAM	162@0	57.620	59.90
41	30	60	505200	2526	CP-OFDM 256 QAM	162@0	57.801	60.03
41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	162@0	57.917	59.82
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	162@0	57.821	59.76
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	162@0	57.733	59.68
41	30	60	518598	2592.99	DFT-s-OFDM 64 QAM	162@0	57.771	59.93
41	30	60	518598	2592.99	DFT-s-OFDM 256 QAM	162@0	57.794	59.97
41	30	60	518598	2592.99	CP-OFDM QPSK	162@0	57.664	59.70
41	30	60	518598	2592.99	CP-OFDM 16 QAM	162@0	57.788	59.89
41	30	60	518598	2592.99	CP-OFDM 64 QAM	162@0	57.74	59.75
41	30	60	518598	2592.99	CP-OFDM 256 QAM	162@0	57.767	59.87
41	30	60	531996	2659.98	DFT-s-OFDM PI/2 BPSK	162@0	57.722	59.72
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	162@0	57.872	59.77
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	162@0	57.745	59.90



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41	30	60	531996	2659.98	DFT-s-OFDM 64 QAM	162@0	57.861	59.79
41	30	60	531996	2659.98	DFT-s-OFDM 256 QAM	162@0	57.708	66.00
41	30	60	531996	2659.98	CP-OFDM QPSK	162@0	57.589	59.68
41	30	60	531996	2659.98	CP-OFDM 16 QAM	162@0	57.702	59.79
41	30	60	531996	2659.98	CP-OFDM 64 QAM	162@0	57.761	59.98
41	30	60	531996	2659.98	CP-OFDM 256 QAM	162@0	57.650	59.98
41	30	80	507204	2536.02	DFT-s-OFDM PI/2 BPSK	216@0	77.027	79.83
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	216@0	77.241	79.74
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	216@0	77.138	79.57
41	30	80	507204	2536.02	DFT-s-OFDM 64 QAM	216@0	77.097	79.66
41	30	80	507204	2536.02	DFT-s-OFDM 256 QAM	216@0	77.065	79.61
41	30	80	507204	2536.02	CP-OFDM QPSK	217@0	77.147	79.93
41	30	80	507204	2536.02	CP-OFDM 16 QAM	217@0	77.278	80.23
41	30	80	507204	2536.02	CP-OFDM 64 QAM	217@0	77.298	79.98
41	30	80	507204	2536.02	CP-OFDM 256 QAM	217@0	77.300	79.87
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	216@0	77.039	79.74
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	216@0	76.902	79.52
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	216@0	76.846	79.48
41	30	80	518598	2592.99	DFT-s-OFDM 64 QAM	216@0	76.929	79.5



41	30	80	518598	2592.99	DFT-s-OFDM 256 QAM	216@0	76.883	79.48
41	30	80	518598	2592.99	CP-OFDM QPSK	217@0	77.290	80.05
41	30	80	518598	2592.99	CP-OFDM 16 QAM	217@0	77.318	80.24
41	30	80	518598	2592.99	CP-OFDM 64 QAM	217@0	77.280	79.87
41	30	80	518598	2592.99	CP-OFDM 256 QAM	217@0	77.281	80.02
41	30	80	529998	2649.99	DFT-s-OFDM PI/2 BPSK	216@0	76.686	79.88
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	216@0	76.972	79.65
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	216@0	77.125	79.49
41	30	80	529998	2649.99	DFT-s-OFDM 64 QAM	216@0	76.739	79.47
41	30	80	529998	2649.99	DFT-s-OFDM 256 QAM	216@0	76.751	79.62
41	30	80	529998	2649.99	CP-OFDM QPSK	217@0	77.299	79.88
41	30	80	529998	2649.99	CP-OFDM 16 QAM	217@0	77.263	80.23
41	30	80	529998	2649.99	CP-OFDM 64 QAM	217@0	77.241	80.05
41	30	80	529998	2649.99	CP-OFDM 256 QAM	217@0	77.269	80.09
41	30	90	508200	2541	DFT-s-OFDM PI/2 BPSK	240@0	85.435	88.41
41	30	90	508200	2541	DFT-s-OFDM QPSK	240@0	85.382	89.27
41	30	90	508200	2541	DFT-s-OFDM 16 QAM	240@0	85.439	88.34
41	30	90	508200	2541	DFT-s-OFDM 64 QAM	240@0	85.329	88.53
41	30	90	508200	2541	DFT-s-OFDM 256 QAM	240@0	85.462	88.46



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41	30	90	508200	2541	CP-OFDM QPSK	245@0	87.122	90.27
41	30	90	508200	2541	CP-OFDM 16 QAM	245@0	87.210	90.40
41	30	90	508200	2541	CP-OFDM 64 QAM	245@0	87.057	90.20
41	30	90	508200	2541	CP-OFDM 256 QAM	245@0	87.124	90.18
41	30	90	518598	2592.99	DFT-s- OFDM PI/2 BPSK	240@0	85.546	88.52
41	30	90	518598	2592.99	DFT-s- OFDM QPSK	240@0	85.608	88.65
41	30	90	518598	2592.99	DFT-s- OFDM 16 QAM	240@0	85.501	88.42
41	30	90	518598	2592.99	DFT-s- OFDM 64 QAM	240@0	85.419	88.54
41	30	90	518598	2592.99	DFT-s- OFDM 256 QAM	240@0	85.615	88.42
41	30	90	518598	2592.99	CP-OFDM QPSK	245@0	87.210	90.27
41	30	90	518598	2592.99	CP-OFDM 16 QAM	245@0	87.150	90.26
41	30	90	518598	2592.99	CP-OFDM 64 QAM	245@0	87.271	90.05
41	30	90	518598	2592.99	CP-OFDM 256 QAM	245@0	87.092	90.26
41	30	90	528996	2592.99	DFT-s- OFDM PI/2 BPSK	240@0	86.672	89.79
41	30	90	528996	2644.98	DFT-s- OFDM QPSK	240@0	85.355	88.28
41	30	90	528996	2644.98	DFT-s- OFDM 16 QAM	240@0	85.485	88.38
41	30	90	528996	2644.98	DFT-s- OFDM 64 QAM	240@0	85.501	88.57
41	30	90	528996	2644.98	DFT-s- OFDM 256 QAM	240@0	85.348	88.54
41	30	90	528996	2644.98	CP-OFDM QPSK	245@0	87.216	90.36



41	30	90	528996	2644.98	CP-OFDM 16 QAM	245@0	87.230	90.26
41	30	90	528996	2644.98	CP-OFDM 64 QAM	245@0	87.209	90.27
41	30	90	528996	2644.98	CP-OFDM 256 QAM	245@0	87.176	90.35
41	30	100	509202	2546.01	DFT-s- OFDM PI/2 BPSK	270@0	96.058	99.52
41	30	100	509202	2546.01	DFT-s- OFDM QPSK	270@0	96.029	99.36
41	30	100	509202	2546.01	DFT-s- OFDM 16 QAM	270@0	96.043	99.63
41	30	100	509202	2546.01	DFT-s- OFDM 64 QAM	270@0	96.087	99.57
41	30	100	509202	2546.01	DFT-s- OFDM 256 QAM	270@0	95.921	99.34
41	30	100	509202	2546.01	CP-OFDM QPSK	273@0	96.992	100.5
41	30	100	509202	2546.01	CP-OFDM 16 QAM	273@0	96.903	100.4
41	30	100	509202	2546.01	CP-OFDM 64 QAM	273@0	97.236	100.4
41	30	100	509202	2546.01	CP-OFDM 256 QAM	273@0	96.898	100.5
41	30	100	518598	2592.99	DFT-s- OFDM PI/2 BPSK	270@0	96.270	99.42
41	30	100	518598	2592.99	DFT-s- OFDM QPSK	270@0	96.034	99.37
41	30	100	518598	2592.99	DFT-s- OFDM 16 QAM	270@0	96.234	99.42
41	30	100	518598	2592.99	DFT-s- OFDM 64 QAM	270@0	96.196	99.38
41	30	100	518598	2592.99	DFT-s- OFDM 256 QAM	270@0	96.101	99.44
41	30	100	518598	2592.99	CP-OFDM QPSK	273@0	96.985	100.4
41	30	100	518598	2592.99	CP-OFDM 16 QAM	273@0	96.846	100.5



41	30	100	518598	2592.99	CP-OFDM 64 QAM	273@0	97.029	100.5
41	30	100	518598	2592.99	CP-OFDM 256 QAM	273@0	96.922	100.4
41	30	100	528000	2640	DFT-s- OFDM PI/2 BPSK	270@0	96.194	99.42
41	30	100	528000	2640	DFT-s- OFDM QPSK	270@0	95.771	99.42
41	30	100	528000	2640	DFT-s- OFDM 16 QAM	270@0	96.043	99.48
41	30	100	528000	2640	DFT-s- OFDM 64 QAM	270@0	95.874	99.44
41	30	100	528000	2640	DFT-s- OFDM 256 QAM	270@0	95.689	99.48
41	30	100	528000	2640	CP-OFDM QPSK	273@0	96.967	100.3
41	30	100	528000	2640	CP-OFDM 16 QAM	273@0	96.894	100.4
41	30	100	528000	2640	CP-OFDM 64 QAM	273@0	96.862	100.4
41	30	100	528000	2640	CP-OFDM 256 QAM	273@0	97.092	100.3
66	15	5	422500	1712.5	DFT-s- OFDM PI/2 BPSK	25@0	4.4642	4.792
66	15	5	422500	1712.5	DFT-s- OFDM QPSK	25@0	4.4660	4.808
66	15	5	422500	1712.5	DFT-s- OFDM 16 QAM	25@0	4.4819	4.792
66	15	5	422500	1712.5	DFT-s- OFDM 64 QAM	25@0	4.4594	4.852
66	15	5	422500	1712.5	DFT-s- OFDM 256 QAM	25@0	4.4459	4.809
66	15	5	422500	1712.5	CP-OFDM QPSK	25@0	4.4777	4.993
66	15	5	422500	1712.5	CP-OFDM 16 QAM	25@0	4.4763	4.849
66	15	5	422500	1712.5	CP-OFDM 64 QAM	25@0	4.4715	4.779



66	15	5	422500	1712.5	CP-OFDM 256 QAM	25@0	4.4710	4.833
66	15	5	429000	1745	DFT-s- OFDM PI/2 BPSK	25@0	4.4572	4.794
66	15	5	429000	1745	DFT-s- OFDM QPSK	25@0	4.4662	4.802
66	15	5	429000	1745	DFT-s- OFDM 16 QAM	25@0	4.4671	4.818
66	15	5	429000	1745	DFT-s- OFDM 64 QAM	25@0	4.4628	4.811
66	15	5	429000	1745	DFT-s- OFDM 256 QAM	25@0	4.4472	4.787
66	15	5	429000	1745	CP-OFDM QPSK	25@0	4.4721	4.948
66	15	5	429000	1745	CP-OFDM 16 QAM	25@0	4.4688	4.848
66	15	5	429000	1745	CP-OFDM 64 QAM	25@0	4.4732	4.853
66	15	5	429000	1745	CP-OFDM 256 QAM	25@0	4.4697	4.801
66	15	5	435500	1777.5	DFT-s- OFDM PI/2 BPSK	25@0	4.4631	4.795
66	15	5	435500	1777.5	DFT-s- OFDM QPSK	25@0	4.4582	4.775
66	15	5	435500	1777.5	DFT-s- OFDM 16 QAM	25@0	4.4528	4.848
66	15	5	435500	1777.5	DFT-s- OFDM 64 QAM	25@0	4.4616	4.794
66	15	5	435500	1777.5	DFT-s- OFDM 256 QAM	25@0	4.4488	4.792
66	15	5	435500	1777.5	CP-OFDM QPSK	25@0	4.4760	4.938
66	15	5	435500	1777.5	CP-OFDM 16 QAM	25@0	4.4766	4.872
66	15	5	435500	1777.5	CP-OFDM 64 QAM	25@0	4.4735	4.799
66	15	5	435500	1777.5	CP-OFDM 256 QAM	25@0	4.4682	4.849



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66	15	10	423000	1715	DFT-s-OFDM PI/2 BPSK	50@0	8.9031	9.528
66	15	10	423000	1715	DFT-s-OFDM QPSK	50@0	8.9018	9.485
66	15	10	423000	1715	DFT-s-OFDM 16 QAM	50@0	8.9322	9.544
66	15	10	423000	1715	DFT-s-OFDM 64 QAM	50@0	8.9037	9.456
66	15	10	423000	1715	DFT-s-OFDM 256 QAM	50@0	8.8966	9.537
66	15	10	423000	1715	CP-OFDM QPSK	52@0	9.2935	9.746
66	15	10	423000	1715	CP-OFDM 16 QAM	52@0	9.3004	9.686
66	15	10	423000	1715	CP-OFDM 64 QAM	52@0	9.2985	9.739
66	15	10	423000	1715	CP-OFDM 256 QAM	52@0	9.2518	9.825
66	15	10	429000	1745	DFT-s-OFDM PI/2 BPSK	50@0	8.9082	9.425
66	15	10	429000	1745	DFT-s-OFDM QPSK	50@0	8.9024	9.412
66	15	10	429000	1745	DFT-s-OFDM 16 QAM	50@0	8.9228	9.457
66	15	10	429000	1745	DFT-s-OFDM 64 QAM	50@0	8.9082	9.514
66	15	10	429000	1745	DFT-s-OFDM 256 QAM	50@0	8.9114	9.517
66	15	10	429000	1745	CP-OFDM QPSK	52@0	9.2874	9.774
66	15	10	429000	1745	CP-OFDM 16 QAM	52@0	9.2672	9.764
66	15	10	429000	1745	CP-OFDM 64 QAM	52@0	9.2948	9.761
66	15	10	429000	1745	CP-OFDM 256 QAM	52@0	9.2865	9.845
66	15	10	435000	1775	DFT-s-OFDM PI/2 BPSK	50@0	8.8921	9.472



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66	15	10	435000	1775	DFT-s-OFDM QPSK	50@0	8.8971	9.499
66	15	10	435000	1775	DFT-s-OFDM 16 QAM	50@0	8.9067	9.435
66	15	10	435000	1775	DFT-s-OFDM 64 QAM	50@0	8.9059	9.430
66	15	10	435000	1775	DFT-s-OFDM 256 QAM	50@0	8.9088	9.558
66	15	10	435000	1775	CP-OFDM QPSK	52@0	9.2822	9.788
66	15	10	435000	1775	CP-OFDM 16 QAM	52@0	9.2679	9.759
66	15	10	435000	1775	CP-OFDM 64 QAM	52@0	9.2769	9.810
66	15	10	435000	1775	CP-OFDM 256 QAM	52@0	9.2626	9.760
66	15	15	423500	1717.5	DFT-s-OFDM PI/2 BPSK	75@0	13.378	14.00
66	15	15	423500	1717.5	DFT-s-OFDM QPSK	75@0	13.388	14.04
66	15	15	423500	1717.5	DFT-s-OFDM 16 QAM	75@0	13.372	14.06
66	15	15	423500	1717.5	DFT-s-OFDM 64 QAM	75@0	13.416	14.07
66	15	15	423500	1717.5	DFT-s-OFDM 256 QAM	75@0	13.386	14.13
66	15	15	423500	1717.5	CP-OFDM QPSK	79@0	14.110	14.70
66	15	15	423500	1717.5	CP-OFDM 16 QAM	79@0	14.128	14.78
66	15	15	423500	1717.5	CP-OFDM 64 QAM	79@0	14.093	14.79
66	15	15	423500	1717.5	CP-OFDM 256 QAM	79@0	14.089	14.77
66	15	15	429000	1745	DFT-s-OFDM PI/2 BPSK	75@0	13.404	14.02
66	15	15	429000	1745	DFT-s-OFDM QPSK	75@0	13.391	14.11



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66	15	15	429000	1745	DFT-s-OFDM 16 QAM	75@0	13.401	14.08
66	15	15	429000	1745	DFT-s-OFDM 64 QAM	75@0	13.389	14.06
66	15	15	429000	1745	DFT-s-OFDM 256 QAM	75@0	13.400	14.10
66	15	15	429000	1745	CP-OFDM QPSK	79@0	14.097	14.77
66	15	15	429000	1745	CP-OFDM 16 QAM	79@0	14.090	14.66
66	15	15	429000	1745	CP-OFDM 64 QAM	79@0	14.105	14.85
66	15	15	429000	1745	CP-OFDM 256 QAM	79@0	14.094	14.66
66	15	15	434500	1772.5	DFT-s-OFDM PI/2 BPSK	75@0	13.380	14.04
66	15	15	434500	1772.5	DFT-s-OFDM QPSK	75@0	13.386	14.09
66	15	15	434500	1772.5	DFT-s-OFDM 16 QAM	75@0	13.403	14.11
66	15	15	434500	1772.5	DFT-s-OFDM 64 QAM	75@0	13.398	14.06
66	15	15	434500	1772.5	DFT-s-OFDM 256 QAM	75@0	13.360	14.00
66	15	15	434500	1772.5	CP-OFDM QPSK	79@0	14.105	14.80
66	15	15	434500	1772.5	CP-OFDM 16 QAM	79@0	14.099	14.74
66	15	15	434500	1772.5	CP-OFDM 64 QAM	79@0	14.085	14.74
66	15	15	434500	1772.5	CP-OFDM 256 QAM	79@0	14.045	14.71
66	15	20	424000	1720	DFT-s-OFDM PI/2 BPSK	100@0	17.878	18.93
66	15	20	424000	1720	DFT-s-OFDM QPSK	100@0	17.869	18.89
66	15	20	424000	1720	DFT-s-OFDM 16 QAM	100@0	17.877	18.67



66	15	20	424000	1720	DFT-s-OFDM 64 QAM	100@0	17.875	18.74
66	15	20	424000	1720	DFT-s-OFDM 256 QAM	100@0	17.871	18.90
66	15	20	424000	1720	CP-OFDM QPSK	106@0	18.916	19.90
66	15	20	424000	1720	CP-OFDM 16 QAM	106@0	18.929	19.78
66	15	20	424000	1720	CP-OFDM 64 QAM	106@0	18.896	19.87
66	15	20	424000	1720	CP-OFDM 256 QAM	106@0	18.860	19.80
66	15	20	429000	1745	DFT-s-OFDM PI/2 BPSK	100@0	17.871	18.95
66	15	20	429000	1745	DFT-s-OFDM QPSK	100@0	17.870	18.81
66	15	20	429000	1745	DFT-s-OFDM 16 QAM	100@0	17.804	18.74
66	15	20	429000	1745	DFT-s-OFDM 64 QAM	100@0	17.870	18.95
66	15	20	429000	1745	DFT-s-OFDM 256 QAM	100@0	17.884	18.93
66	15	20	429000	1745	CP-OFDM QPSK	106@0	18.878	19.67
66	15	20	429000	1745	CP-OFDM 16 QAM	106@0	18.889	19.73
66	15	20	429000	1745	CP-OFDM 64 QAM	106@0	18.886	19.8
66	15	20	429000	1745	CP-OFDM 256 QAM	106@0	18.882	19.9
66	15	20	434000	1770	DFT-s-OFDM PI/2 BPSK	100@0	17.865	18.59
66	15	20	434000	1770	DFT-s-OFDM QPSK	100@0	17.884	18.83
66	15	20	434000	1770	DFT-s-OFDM 16 QAM	100@0	17.868	18.84
66	15	20	434000	1770	DFT-s-OFDM 64 QAM	100@0	17.843	18.69



66	15	20	434000	1770	DFT-s-OFDM 256 QAM	100@0	17.887	18.90
66	15	20	434000	1770	CP-OFDM QPSK	106@0	18.924	19.86
66	15	20	434000	1770	CP-OFDM 16 QAM	106@0	18.895	19.79
66	15	20	434000	1770	CP-OFDM 64 QAM	106@0	18.866	19.89
66	15	20	434000	1770	CP-OFDM 256 QAM	106@0	18.880	19.73
66	15	25	424500	1722.5	DFT-s-OFDM PI/2 BPSK	128@0	22.872	23.83
66	15	25	424500	1722.5	DFT-s-OFDM QPSK	128@0	22.845	23.89
66	15	25	424500	1722.5	DFT-s-OFDM 16 QAM	128@0	22.876	24.11
66	15	25	424500	1722.5	DFT-s-OFDM 64 QAM	128@0	22.867	23.91
66	15	25	424500	1722.5	DFT-s-OFDM 256 QAM	128@0	22.832	23.90
66	15	25	424500	1722.5	CP-OFDM QPSK	133@0	23.793	24.91
66	15	25	424500	1722.5	CP-OFDM 16 QAM	133@0	23.668	24.69
66	15	25	424500	1722.5	CP-OFDM 64 QAM	133@0	23.693	24.71
66	15	25	424500	1722.5	CP-OFDM 256 QAM	133@0	23.739	24.60
66	15	25	429000	1745	DFT-s-OFDM PI/2 BPSK	128@0	22.895	24.05
66	15	25	429000	1745	DFT-s-OFDM QPSK	128@0	22.849	23.74
66	15	25	429000	1745	DFT-s-OFDM 16 QAM	128@0	22.867	23.86
66	15	25	429000	1745	DFT-s-OFDM 64 QAM	128@0	22.794	23.80
66	15	25	429000	1745	DFT-s-OFDM 256 QAM	128@0	22.837	23.91



66	15	25	429000	1745	CP-OFDM QPSK	133@0	23.738	24.66
66	15	25	429000	1745	CP-OFDM 16 QAM	133@0	23.742	24.68
66	15	25	429000	1745	CP-OFDM 64 QAM	133@0	23.712	24.64
66	15	25	429000	1745	CP-OFDM 256 QAM	133@0	23.706	24.64
66	15	25	433500	1767.5	DFT-s- OFDM PI/2 BPSK	128@0	22.883	23.69
66	15	25	433500	1767.5	DFT-s- OFDM QPSK	128@0	22.864	23.74
66	15	25	433500	1767.5	DFT-s- OFDM 16 QAM	128@0	22.873	23.81
66	15	25	433500	1767.5	DFT-s- OFDM 64 QAM	128@0	22.871	23.99
66	15	25	433500	1767.5	DFT-s- OFDM 256 QAM	128@0	22.852	23.73
66	15	25	433500	1767.5	CP-OFDM QPSK	133@0	23.757	25.01
66	15	25	433500	1767.5	CP-OFDM 16 QAM	133@0	23.77	24.74
66	15	25	433500	1767.5	CP-OFDM 64 QAM	133@0	23.741	24.76
66	15	25	433500	1767.5	CP-OFDM 256 QAM	133@0	23.751	24.53
66	15	30	425000	1725	DFT-s- OFDM PI/2 BPSK	160@0	28.566	29.56
66	15	30	425000	1725	DFT-s- OFDM QPSK	160@0	28.545	29.67
66	15	30	425000	1725	DFT-s- OFDM 16 QAM	160@0	28.582	29.58
66	15	30	425000	1725	DFT-s- OFDM 64 QAM	160@0	28.664	29.58
66	15	30	425000	1725	DFT-s- OFDM 256 QAM	160@0	28.588	29.63
66	15	30	425000	1725	CP-OFDM QPSK	160@0	28.602	29.76



66	15	30	425000	1725	CP-OFDM 16 QAM	160@0	28.598	29.56
66	15	30	425000	1725	CP-OFDM 64 QAM	160@0	28.627	29.60
66	15	30	425000	1725	CP-OFDM 256 QAM	160@0	28.606	29.77
66	15	30	429000	1745	DFT-s- OFDM PI/2 BPSK	160@0	28.498	29.50
66	15	30	429000	1745	DFT-s- OFDM QPSK	160@0	28.501	29.61
66	15	30	429000	1745	DFT-s- OFDM 16 QAM	160@0	28.462	29.53
66	15	30	429000	1745	DFT-s- OFDM 64 QAM	160@0	28.643	29.63
66	15	30	429000	1745	DFT-s- OFDM 256 QAM	160@0	28.434	29.51
66	15	30	429000	1745	CP-OFDM QPSK	160@0	28.543	29.59
66	15	30	429000	1745	CP-OFDM 16 QAM	160@0	28.483	29.56
66	15	30	429000	1745	CP-OFDM 64 QAM	160@0	28.535	29.68
66	15	30	429000	1745	CP-OFDM 256 QAM	160@0	28.456	29.71
66	15	30	433000	1765	DFT-s- OFDM PI/2 BPSK	160@0	28.563	29.56
66	15	30	433000	1765	DFT-s- OFDM QPSK	160@0	28.599	29.66
66	15	30	433000	1765	DFT-s- OFDM 16 QAM	160@0	28.605	29.66
66	15	30	433000	1765	DFT-s- OFDM 64 QAM	160@0	28.577	29.58
66	15	30	433000	1765	DFT-s- OFDM 256 QAM	160@0	28.605	29.61
66	15	30	433000	1765	CP-OFDM QPSK	160@0	28.554	29.78
66	15	30	433000	1765	CP-OFDM 16 QAM	160@0	28.553	29.58



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66	15	30	433000	1765	CP-OFDM 64 QAM	160@0	28.643	29.54
66	15	30	433000	1765	CP-OFDM 256 QAM	160@0	28.556	29.62
66	15	40	426000	1730	DFT-s- OFDM PI/2 BPSK	216@0	38.604	39.91
66	15	40	426000	1730	DFT-s- OFDM QPSK	216@0	38.500	40.07
66	15	40	426000	1730	DFT-s- OFDM 16 QAM	216@0	38.598	40.16
66	15	40	426000	1730	DFT-s- OFDM 64 QAM	216@0	38.579	40.10
66	15	40	426000	1730	DFT-s- OFDM 256 QAM	216@0	38.504	40.02
66	15	40	426000	1730	CP-OFDM QPSK	216@0	38.569	40.24
66	15	40	426000	1730	CP-OFDM 16 QAM	216@0	38.635	40.01
66	15	40	426000	1730	CP-OFDM 64 QAM	216@0	38.524	39.95
66	15	40	426000	1730	CP-OFDM 256 QAM	216@0	38.542	40.10
66	15	40	429000	1745	DFT-s- OFDM PI/2 BPSK	216@0	38.469	39.86
66	15	40	429000	1745	DFT-s- OFDM QPSK	216@0	38.407	39.94
66	15	40	429000	1745	DFT-s- OFDM 16 QAM	216@0	38.410	40.14
66	15	40	429000	1745	DFT-s- OFDM 64 QAM	216@0	38.547	40.03
66	15	40	429000	1745	DFT-s- OFDM 256 QAM	216@0	38.460	40.10
66	15	40	429000	1745	CP-OFDM QPSK	216@0	38.492	39.91
66	15	40	429000	1745	CP-OFDM 16 QAM	216@0	38.475	39.97
66	15	40	429000	1745	CP-OFDM 64 QAM	216@0	38.463	40.06



66	15	40	429000	1745	CP-OFDM 256 QAM	216@0	38.459	39.86
66	15	40	432000	1760	DFT-s- OFDM PI/2 BPSK	216@0	38.429	39.93
66	15	40	432000	1760	DFT-s- OFDM QPSK	216@0	38.441	39.90
66	15	40	432000	1760	DFT-s- OFDM 16 QAM	216@0	38.628	40.18
66	15	40	432000	1760	DFT-s- OFDM 64 QAM	216@0	38.583	39.97
66	15	40	432000	1760	DFT-s- OFDM 256 QAM	216@0	38.513	40.10
66	15	40	432000	1760	CP-OFDM QPSK	216@0	38.557	39.93
66	15	40	432000	1760	CP-OFDM 16 QAM	216@0	38.54	39.91
66	15	40	432000	1760	CP-OFDM 64 QAM	216@0	38.508	39.99
66	15	40	432000	1760	CP-OFDM 256 QAM	216@0	38.535	39.99
71	15	5	123900	665.5	DFT-s- OFDM PI/2 BPSK	25@0	4.4659	4.759
71	15	5	123900	665.5	DFT-s- OFDM QPSK	25@0	4.4626	4.785
71	15	5	123900	665.5	DFT-s- OFDM 16 QAM	25@0	4.4740	4.825
71	15	5	123900	665.5	DFT-s- OFDM 64 QAM	25@0	4.4624	4.836
71	15	5	123900	665.5	DFT-s- OFDM 256 QAM	25@0	4.4493	4.805
71	15	5	123900	665.5	CP-OFDM QPSK	25@0	4.4686	4.858
71	15	5	123900	665.5	CP-OFDM 16 QAM	25@0	4.4677	4.829
71	15	5	123900	665.5	CP-OFDM 64 QAM	25@0	4.4658	4.799
71	15	5	123900	665.5	CP-OFDM 256 QAM	25@0	4.4665	4.779



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71	15	5	126900	680.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4777	4.790
71	15	5	126900	680.5	DFT-s-OFDM QPSK	25@0	4.4584	4.820
71	15	5	126900	680.5	DFT-s-OFDM 16 QAM	25@0	4.4679	4.819
71	15	5	126900	680.5	DFT-s-OFDM 64 QAM	25@0	4.4607	4.828
71	15	5	126900	680.5	DFT-s-OFDM 256 QAM	25@0	4.4468	4.804
71	15	5	126900	680.5	CP-OFDM QPSK	25@0	4.4671	4.882
71	15	5	126900	680.5	CP-OFDM 16 QAM	25@0	4.466	4.817
71	15	5	126900	680.5	CP-OFDM 64 QAM	25@0	4.4752	4.832
71	15	5	126900	680.5	CP-OFDM 256 QAM	25@0	4.4703	4.808
71	15	5	129900	695.5	DFT-s-OFDM PI/2 BPSK	25@0	4.4563	4.763
71	15	5	129900	695.5	DFT-s-OFDM QPSK	25@0	4.4614	4.823
71	15	5	129900	695.5	DFT-s-OFDM 16 QAM	25@0	4.4566	4.792
71	15	5	129900	695.5	DFT-s-OFDM 64 QAM	25@0	4.4663	4.816
71	15	5	129900	695.5	DFT-s-OFDM 256 QAM	25@0	4.4418	4.814
71	15	5	129900	695.5	CP-OFDM QPSK	25@0	4.4738	4.836
71	15	5	129900	695.5	CP-OFDM 16 QAM	25@0	4.4613	4.797
71	15	5	129900	695.5	CP-OFDM 64 QAM	25@0	4.4761	4.851
71	15	5	129900	695.5	CP-OFDM 256 QAM	25@0	4.4712	4.801
71	15	10	124400	668	DFT-s-OFDM PI/2 BPSK	50@0	8.8740	9.378



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71	15	10	124400	668	DFT-s-OFDM QPSK	50@0	8.9138	9.540
71	15	10	124400	668	DFT-s-OFDM 16 QAM	50@0	8.8964	9.525
71	15	10	124400	668	DFT-s-OFDM 64 QAM	50@0	8.8934	9.435
71	15	10	124400	668	DFT-s-OFDM 256 QAM	50@0	8.9032	9.764
71	15	10	124400	668	CP-OFDM QPSK	52@0	9.2735	9.774
71	15	10	124400	668	CP-OFDM 16 QAM	52@0	9.2684	9.768
71	15	10	124400	668	CP-OFDM 64 QAM	52@0	9.2882	9.802
71	15	10	124400	668	CP-OFDM 256 QAM	52@0	9.2775	9.796
71	15	10	126900	680.5	DFT-s-OFDM PI/2 BPSK	50@0	8.8923	9.506
71	15	10	126900	680.5	DFT-s-OFDM QPSK	50@0	8.9218	9.552
71	15	10	126900	680.5	DFT-s-OFDM 16 QAM	50@0	8.9162	9.539
71	15	10	126900	680.5	DFT-s-OFDM 64 QAM	50@0	8.9126	9.531
71	15	10	126900	680.5	DFT-s-OFDM 256 QAM	50@0	8.9342	9.519
71	15	10	126900	680.5	CP-OFDM QPSK	52@0	9.273	9.748
71	15	10	126900	680.5	CP-OFDM 16 QAM	52@0	9.2737	9.819
71	15	10	126900	680.5	CP-OFDM 64 QAM	52@0	9.2675	9.880
71	15	10	126900	680.5	CP-OFDM 256 QAM	52@0	9.2713	9.755
71	15	10	129400	693	DFT-s-OFDM PI/2 BPSK	50@0	8.9031	9.508
71	15	10	129400	693	DFT-s-OFDM QPSK	50@0	8.9137	9.464



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71	15	10	129400	693	DFT-s-OFDM 16 QAM	50@0	8.9067	9.542
71	15	10	129400	693	DFT-s-OFDM 64 QAM	50@0	8.9213	9.482
71	15	10	129400	693	DFT-s-OFDM 256 QAM	50@0	8.9172	9.449
71	15	10	129400	693	CP-OFDM QPSK	52@0	9.2855	9.833
71	15	10	129400	693	CP-OFDM 16 QAM	52@0	9.2924	9.762
71	15	10	129400	693	CP-OFDM 64 QAM	52@0	9.2820	9.825
71	15	10	129400	693	CP-OFDM 256 QAM	52@0	9.2781	9.758
71	15	15	124900	670.5	DFT-s-OFDM PI/2 BPSK	75@0	13.400	14.09
71	15	15	124900	670.5	DFT-s-OFDM QPSK	75@0	13.390	14.05
71	15	15	124900	670.5	DFT-s-OFDM 16 QAM	75@0	13.400	14.12
71	15	15	124900	670.5	DFT-s-OFDM 64 QAM	75@0	13.412	14.07
71	15	15	124900	670.5	DFT-s-OFDM 256 QAM	75@0	13.403	13.97
71	15	15	124900	670.5	CP-OFDM QPSK	79@0	14.046	14.86
71	15	15	124900	670.5	CP-OFDM 16 QAM	79@0	14.118	14.64
71	15	15	124900	670.5	CP-OFDM 64 QAM	79@0	14.062	14.75
71	15	15	124900	670.5	CP-OFDM 256 QAM	79@0	14.101	14.74
71	15	15	126900	680.5	DFT-s-OFDM PI/2 BPSK	75@0	13.402	14.03
71	15	15	126900	680.5	DFT-s-OFDM QPSK	75@0	13.400	14.09
71	15	15	126900	680.5	DFT-s-OFDM 16 QAM	75@0	13.399	14.11



71	15	15	126900	680.5	DFT-s-OFDM 64 QAM	75@0	13.398	14.04
71	15	15	126900	680.5	DFT-s-OFDM 256 QAM	75@0	13.392	14.10
71	15	15	126900	680.5	CP-OFDM QPSK	79@0	14.084	14.76
71	15	15	126900	680.5	CP-OFDM 16 QAM	79@0	14.097	14.74
71	15	15	126900	680.5	CP-OFDM 64 QAM	79@0	14.098	14.73
71	15	15	126900	680.5	CP-OFDM 256 QAM	79@0	14.075	14.69
71	15	15	128900	690.5	DFT-s-OFDM PI/2 BPSK	75@0	13.400	14.13
71	15	15	128900	690.5	DFT-s-OFDM QPSK	75@0	13.406	13.96
71	15	15	128900	690.5	DFT-s-OFDM 16 QAM	75@0	13.407	14.10
71	15	15	128900	690.5	DFT-s-OFDM 64 QAM	75@0	13.437	14.01
71	15	15	128900	690.5	DFT-s-OFDM 256 QAM	75@0	13.399	14.02
71	15	15	128900	690.5	CP-OFDM QPSK	79@0	14.113	14.73
71	15	15	128900	690.5	CP-OFDM 16 QAM	79@0	14.089	14.77
71	15	15	128900	690.5	CP-OFDM 64 QAM	79@0	14.115	14.77
71	15	15	128900	690.5	CP-OFDM 256 QAM	79@0	14.125	14.78
71	15	20	125400	673	DFT-s-OFDM PI/2 BPSK	100@0	17.884	18.62
71	15	20	125400	673	DFT-s-OFDM QPSK	100@0	17.849	18.82
71	15	20	125400	673	DFT-s-OFDM 16 QAM	100@0	17.865	18.80
71	15	20	125400	673	DFT-s-OFDM 64 QAM	100@0	17.881	18.77



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71	15	20	125400	673	DFT-s-OFDM 256 QAM	100@0	17.873	18.87
71	15	20	125400	673	CP-OFDM QPSK	106@0	18.901	19.87
71	15	20	125400	673	CP-OFDM 16 QAM	106@0	18.876	19.89
71	15	20	125400	673	CP-OFDM 64 QAM	106@0	18.882	19.77
71	15	20	125400	673	CP-OFDM 256 QAM	106@0	18.875	19.78
71	15	20	126900	680.5	DFT-s-OFDM PI/2 BPSK	100@0	17.853	19.01
71	15	20	126900	680.5	DFT-s-OFDM QPSK	100@0	17.839	18.72
71	15	20	126900	680.5	DFT-s-OFDM 16 QAM	100@0	17.848	19.02
71	15	20	126900	680.5	DFT-s-OFDM 64 QAM	100@0	17.909	18.74
71	15	20	126900	680.5	DFT-s-OFDM 256 QAM	100@0	17.900	18.67
71	15	20	126900	680.5	CP-OFDM QPSK	106@0	18.944	19.82
71	15	20	126900	680.5	CP-OFDM 16 QAM	106@0	18.889	19.71
71	15	20	126900	680.5	CP-OFDM 64 QAM	106@0	18.841	19.83
71	15	20	126900	680.5	CP-OFDM 256 QAM	106@0	18.919	19.84
71	15	20	128400	688	DFT-s-OFDM PI/2 BPSK	100@0	17.894	18.83
71	15	20	128400	688	DFT-s-OFDM QPSK	100@0	17.890	18.83
71	15	20	128400	688	DFT-s-OFDM 16 QAM	100@0	17.882	18.70
71	15	20	128400	688	DFT-s-OFDM 64 QAM	100@0	17.878	18.90
71	15	20	128400	688	DFT-s-OFDM 256 QAM	100@0	17.891	18.77



71	15	20	128400	688	CP-OFDM QPSK	106@0	18.879	19.67
71	15	20	128400	688	CP-OFDM 16 QAM	106@0	18.903	19.76
71	15	20	128400	688	CP-OFDM 64 QAM	106@0	18.909	19.84
71	15	20	128400	688	CP-OFDM 256 QAM	106@0	18.933	19.77

n77 (3700 MHz ~ 3980 MHz)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	647000	3705.0	DFT-s- OFDM PI/2 BPSK	24@0	8.5917	9.283
77	30	10	647000	3705.0	DFT-s- OFDM QPSK	24@0	8.5858	9.151
77	30	10	647000	3705.0	DFT-s- OFDM 16 QAM	24@0	8.6046	9.290
77	30	10	647000	3705.0	DFT-s- OFDM 64 QAM	24@0	8.5886	9.221
77	30	10	647000	3705.0	DFT-s- OFDM 256 QAM	24@0	8.5555	9.252
77	30	10	647000	3705.0	CP-OFDM QPSK	24@0	8.5677	9.302
77	30	10	647000	3705.0	CP-OFDM 16 QAM	24@0	8.5749	9.521
77	30	10	647000	3705.0	CP-OFDM 64 QAM	24@0	8.5757	9.377
77	30	10	647000	3705.0	CP-OFDM 256 QAM	24@0	8.567	9.273
77	30	10	656000	3840.0	DFT-s- OFDM PI/2 BPSK	24@0	8.5604	9.381
77	30	10	656000	3840.0	DFT-s- OFDM QPSK	24@0	8.6163	9.279
77	30	10	656000	3840.0	DFT-s- OFDM 16 QAM	24@0	8.5762	9.364
77	30	10	656000	3840.0	DFT-s- OFDM 64 QAM	24@0	8.5649	9.259



77	30	10	656000	3840.0	DFT-s-OFDM 256 QAM	24@0	8.5471	9.341
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5821	9.354
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5916	9.323
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5831	9.252
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5675	9.492
77	30	10	665000	3975.0	DFT-s-OFDM PI/2 BPSK	24@0	8.5812	9.395
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	8.5406	9.149
77	30	10	665000	3975.0	DFT-s-OFDM 16 QAM	24@0	8.5938	9.216
77	30	10	665000	3975.0	DFT-s-OFDM 64 QAM	24@0	8.5456	9.328
77	30	10	665000	3975.0	DFT-s-OFDM 256 QAM	24@0	8.5954	9.322
77	30	10	665000	3975.0	CP-OFDM QPSK	24@0	8.5566	9.363
77	30	10	665000	3975.0	CP-OFDM 16 QAM	24@0	8.5965	9.292
77	30	10	665000	3975.0	CP-OFDM 64 QAM	24@0	8.5758	9.260
77	30	10	665000	3975.0	CP-OFDM 256 QAM	24@0	8.6028	9.358
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	36@0	12.837	13.46
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	36@0	12.805	13.63
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	36@0	12.875	13.76
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	36@0	12.865	13.59
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	36@0	12.908	13.76



77	30	15	647168	3707.52	CP-OFDM QPSK	38@0	13.563	14.34
77	30	15	647168	3707.52	CP-OFDM 16 QAM	38@0	13.603	14.34
77	30	15	647168	3707.52	CP-OFDM 64 QAM	38@0	13.549	14.43
77	30	15	647168	3707.52	CP-OFDM 256 QAM	38@0	13.562	14.61
77	30	15	656000	3840.0	DFT-s- OFDM PI/2 BPSK	36@0	12.829	13.78
77	30	15	656000	3840.0	DFT-s- OFDM QPSK	36@0	12.80	13.87
77	30	15	656000	3840.0	DFT-s- OFDM 16 QAM	36@0	12.893	13.89
77	30	15	656000	3840.0	DFT-s- OFDM 64 QAM	36@0	12.845	13.52
77	30	15	656000	3840.0	DFT-s- OFDM 256 QAM	36@0	12.833	13.93
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.578	14.37
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.593	14.30
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	11.411	11.92
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.565	14.57
77	30	15	664832	3972.48	DFT-s- OFDM PI/2 BPSK	36@0	12.834	13.87
77	30	15	664832	3972.48	DFT-s- OFDM QPSK	36@0	12.843	13.82
77	30	15	664832	3972.48	DFT-s- OFDM 16 QAM	36@0	12.825	13.81
77	30	15	664832	3972.48	DFT-s- OFDM 64 QAM	36@0	12.856	13.65
77	30	15	664832	3972.48	DFT-s- OFDM 256 QAM	36@0	12.868	13.79
77	30	15	664832	3972.48	CP-OFDM QPSK	38@0	13.568	14.39



77	30	15	664832	3972.48	CP-OFDM 16 QAM	38@0	13.588	14.44
77	30	15	664832	3972.48	CP-OFDM 64 QAM	38@0	13.581	14.33
77	30	15	664832	3972.48	CP-OFDM 256 QAM	38@0	13.562	14.37
77	30	20	647334	3710.01	DFT-s- OFDM PI/2 BPSK	50@0	17.808	19.05
77	30	20	647334	3710.01	DFT-s- OFDM QPSK	50@0	17.865	18.97
77	30	20	647334	3710.01	DFT-s- OFDM 16 QAM	50@0	17.869	18.70
77	30	20	647334	3710.01	DFT-s- OFDM 64 QAM	50@0	17.860	18.80
77	30	20	647334	3710.01	DFT-s- OFDM 256 QAM	50@0	17.866	18.93
77	30	20	647334	3710.01	CP-OFDM QPSK	51@0	18.214	19.13
77	30	20	647334	3710.01	CP-OFDM 16 QAM	51@0	18.209	19.05
77	30	20	647334	3710.01	CP-OFDM 64 QAM	51@0	18.178	19.31
77	30	20	647334	3710.01	CP-OFDM 256 QAM	51@0	18.215	19.14
77	30	20	656000	3840.0	DFT-s- OFDM PI/2 BPSK	50@0	17.827	18.77
77	30	20	656000	3840.0	DFT-s- OFDM QPSK	50@0	17.864	18.67
77	30	20	656000	3840.0	DFT-s- OFDM 16 QAM	50@0	17.777	18.59
77	30	20	656000	3840.0	DFT-s- OFDM 64 QAM	50@0	17.828	19.00
77	30	20	656000	3840.0	DFT-s- OFDM 256 QAM	50@0	17.823	19.14
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.189	19.13
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.182	19.26



77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.205	19.48
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.182	19.15
77	30	20	664666	3969.99	DFT-s- OFDM PI/2 BPSK	50@0	17.808	19.09
77	30	20	664666	3969.99	DFT-s- OFDM QPSK	50@0	17.807	18.55
77	30	20	664666	3969.99	DFT-s- OFDM 16 QAM	50@0	17.817	18.83
77	30	20	664666	3969.99	DFT-s- OFDM 64 QAM	50@0	17.776	18.87
77	30	20	664666	3969.99	DFT-s- OFDM 256 QAM	50@0	17.846	18.73
77	30	20	664666	3969.99	CP-OFDM QPSK	51@0	18.148	19.12
77	30	20	664666	3969.99	CP-OFDM 16 QAM	51@0	18.199	19.07
77	30	20	664666	3969.99	CP-OFDM 64 QAM	51@0	18.179	19.1
77	30	20	664666	3969.99	CP-OFDM 256 QAM	51@0	18.222	19.14
77	30	40	648000	3720.0	DFT-s- OFDM PI/2 BPSK	100@0	35.786	37.27
77	30	40	648000	3720.0	DFT-s- OFDM QPSK	100@0	35.702	37.23
77	30	40	648000	3720.0	DFT-s- OFDM 16 QAM	100@0	35.762	37.13
77	30	40	648000	3720.0	DFT-s- OFDM 64 QAM	100@0	35.746	37.06
77	30	40	648000	3720.0	DFT-s- OFDM 256 QAM	100@0	35.787	37.07
77	30	40	648000	3720.0	CP-OFDM QPSK	106@0	37.801	39.66
77	30	40	648000	3720.0	CP-OFDM 16 QAM	106@0	37.839	39.14
77	30	40	648000	3720.0	CP-OFDM 64 QAM	106@0	37.825	39.13



77	30	40	648000	3720.0	CP-OFDM 256 QAM	106@0	37.796	39.38
77	30	40	656000	3840.0	DFT-s- OFDM PI/2 BPSK	100@0	35.685	36.94
77	30	40	656000	3840.0	DFT-s- OFDM QPSK	100@0	35.783	37.29
77	30	40	656000	3840.0	DFT-s- OFDM 16 QAM	100@0	35.662	37.03
77	30	40	656000	3840.0	DFT-s- OFDM 64 QAM	100@0	35.676	37.35
77	30	40	656000	3840.0	DFT-s- OFDM 256 QAM	100@0	35.736	37.19
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.766	39.38
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.839	39.23
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.793	39.20
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.740	39.11
77	30	40	664000	3960.0	DFT-s- OFDM PI/2 BPSK	100@0	35.740	37.02
77	30	40	664000	3960.0	DFT-s- OFDM QPSK	100@0	35.782	37.10
77	30	40	664000	3960.0	DFT-s- OFDM 16 QAM	100@0	35.70	38.13
77	30	40	664000	3960.0	DFT-s- OFDM 64 QAM	100@0	35.725	37.37
77	30	40	664000	3960.0	DFT-s- OFDM 256 QAM	100@0	35.718	36.98
77	30	40	664000	3960.0	CP-OFDM QPSK	106@0	37.786	39.26
77	30	40	664000	3960.0	CP-OFDM 16 QAM	106@0	37.913	39.47
77	30	40	664000	3960.0	CP-OFDM 64 QAM	106@0	37.766	39.29
77	30	40	664000	3960.0	CP-OFDM 256 QAM	106@0	37.765	39.46



77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	128@0	45.550	47.58
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	45.606	47.33
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	128@0	45.593	47.35
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	128@0	45.653	47.62
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	128@0	45.806	47.75
77	30	50	648334	3725.01	CP-OFDM QPSK	133@0	47.377	49.16
77	30	50	648334	3725.01	CP-OFDM 16 QAM	133@0	47.433	49.46
77	30	50	648334	3725.01	CP-OFDM 64 QAM	133@0	47.426	49.45
77	30	50	648334	3725.01	CP-OFDM 256 QAM	133@0	47.259	49.12
77	30	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	45.712	47.88
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	128@0	45.729	47.80
77	30	50	656000	3840.0	DFT-s-OFDM 16 QAM	128@0	45.655	47.64
77	30	50	656000	3840.0	DFT-s-OFDM 64 QAM	128@0	45.726	47.46
77	30	50	656000	3840.0	DFT-s-OFDM 256 QAM	128@0	45.643	47.90
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.353	49.42
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.330	49.10
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.519	49.43
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.492	49.54
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	128@0	45.742	47.84



77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	45.719	47.45
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	128@0	45.828	47.99
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	128@0	45.720	47.30
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	128@0	45.693	47.44
77	30	50	663666	3954.99	CP-OFDM QPSK	133@0	47.279	49.12
77	30	50	663666	3954.99	CP-OFDM 16 QAM	133@0	47.391	49.5
77	30	50	663666	3954.99	CP-OFDM 64 QAM	133@0	47.378	49.49
77	30	50	663666	3954.99	CP-OFDM 256 QAM	133@0	47.049	48.94
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	162@0	57.825	59.79
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	162@0	57.735	59.82
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	162@0	57.75	59.74
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	162@0	57.703	59.96
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	162@0	57.699	59.94
77	30	60	648668	3730.02	CP-OFDM QPSK	162@0	57.619	59.9
77	30	60	648668	3730.02	CP-OFDM 16 QAM	162@0	57.792	59.78
77	30	60	648668	3730.02	CP-OFDM 64 QAM	162@0	57.713	59.68
77	30	60	648668	3730.02	CP-OFDM 256 QAM	162@0	57.685	59.97
77	30	60	656000	3840.0	DFT-s-OFDM PI/2 BPSK	162@0	57.703	59.74
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	162@0	57.808	60.16



77	30	60	656000	3840.0	DFT-s-OFDM 16 QAM	162@0	57.845	59.98
77	30	60	656000	3840.0	DFT-s-OFDM 64 QAM	162@0	57.737	59.91
77	30	60	656000	3840.0	DFT-s-OFDM 256 QAM	162@0	57.851	59.73
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.66	59.73
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.696	59.71
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.717	59.86
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.634	59.78
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	162@0	57.725	59.77
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	162@0	57.956	59.91
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	162@0	57.834	59.73
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	162@0	57.815	59.74
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	162@0	57.871	59.96
77	30	60	663332	3949.98	CP-OFDM QPSK	162@0	57.772	59.67
77	30	60	663332	3949.98	CP-OFDM 16 QAM	162@0	57.805	60.07
77	30	60	663332	3949.98	CP-OFDM 64 QAM	162@0	57.621	59.90
77	30	60	663332	3949.98	CP-OFDM 256 QAM	162@0	57.690	59.88
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	216@0	76.903	79.60
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	216@0	76.927	79.66
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	216@0	76.981	79.63



77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	216@0	77.11	79.59
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	216@0	76.975	79.78
77	30	80	649334	3740.01	CP-OFDM QPSK	217@0	77.32	79.92
77	30	80	649334	3740.01	CP-OFDM 16 QAM	217@0	77.349	79.85
77	30	80	649334	3740.01	CP-OFDM 64 QAM	217@0	77.362	79.77
77	30	80	649334	3740.01	CP-OFDM 256 QAM	217@0	77.383	79.95
77	30	80	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	77.047	79.73
77	30	80	656000	3840.0	DFT-s-OFDM QPSK	216@0	77.003	79.52
77	30	80	656000	3840.0	DFT-s-OFDM 16 QAM	216@0	76.868	79.61
77	30	80	656000	3840.0	DFT-s-OFDM 64 QAM	216@0	76.983	79.84
77	30	80	656000	3840.0	DFT-s-OFDM 256 QAM	216@0	76.996	79.51
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.374	79.92
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.516	79.93
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.353	79.93
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.453	80.11
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	216@0	76.983	79.66
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	216@0	76.808	79.47
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	216@0	76.900	79.68
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	216@0	76.901	79.61



77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	216@0	76.944	79.56
77	30	80	662666	3939.99	CP-OFDM QPSK	217@0	77.346	80.18
77	30	80	662666	3939.99	CP-OFDM 16 QAM	217@0	77.252	80.08
77	30	80	662666	3939.99	CP-OFDM 64 QAM	217@0	77.184	79.92
77	30	80	662666	3939.99	CP-OFDM 256 QAM	217@0	77.547	79.86
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	240@0	77.102	79.62
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	240@0	85.539	88.51
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	240@0	85.784	88.58
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	240@0	85.476	88.44
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	240@0	85.345	88.64
77	30	90	649668	3745.02	CP-OFDM QPSK	245@0	87.222	90.24
77	30	90	649668	3745.02	CP-OFDM 16 QAM	245@0	87.334	90.32
77	30	90	649668	3745.02	CP-OFDM 64 QAM	245@0	87.354	90.24
77	30	90	649668	3745.02	CP-OFDM 256 QAM	245@0	87.204	90.24
77	30	90	656000	3840.0	DFT-s-OFDM PI/2 BPSK	240@0	85.593	88.58
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	240@0	85.450	88.39
77	30	90	656000	3840.0	DFT-s-OFDM 16 QAM	240@0	85.348	88.63
77	30	90	656000	3840.0	DFT-s-OFDM 64 QAM	240@0	85.453	88.48
77	30	90	656000	3840.0	DFT-s-OFDM 256 QAM	240@0	85.517	88.63



77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.192	90.14
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.186	90.26
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.323	90.09
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.141	90.27
77	30	90	662332	3934.98	DFT-s- OFDM PI/2 BPSK	240@0	85.462	88.57
77	30	90	662332	3934.98	DFT-s- OFDM QPSK	240@0	85.729	88.44
77	30	90	662332	3934.98	DFT-s- OFDM 16 QAM	240@0	85.443	88.39
77	30	90	662332	3934.98	DFT-s- OFDM 64 QAM	240@0	85.523	88.53
77	30	90	662332	3934.98	DFT-s- OFDM 256 QAM	240@0	85.297	88.53
77	30	90	662332	3934.98	CP-OFDM QPSK	245@0	87.287	90.37
77	30	90	662332	3934.98	CP-OFDM 16 QAM	245@0	87.367	90.32
77	30	90	662332	3934.98	CP-OFDM 64 QAM	245@0	87.343	90.70
77	30	90	662332	3934.98	CP-OFDM 256 QAM	245@0	87.536	90.32
77	30	100	650000	3750.0	DFT-s- OFDM PI/2 BPSK	270@0	96.075	99.28
77	30	100	650000	3750.0	DFT-s- OFDM QPSK	270@0	95.88	99.43
77	30	100	650000	3750.0	DFT-s- OFDM 16 QAM	270@0	96.464	99.42
77	30	100	650000	3750.0	DFT-s- OFDM 64 QAM	270@0	96.187	99.42
77	30	100	650000	3750.0	DFT-s- OFDM 256 QAM	270@0	95.96	99.48
77	30	100	650000	3750.0	CP-OFDM QPSK	273@0	97.198	100.5



77	30	100	650000	3750.0	CP-OFDM 16 QAM	273@0	96.708	100.4
77	30	100	650000	3750.0	CP-OFDM 64 QAM	273@0	97.050	100.4
77	30	100	650000	3750.0	CP-OFDM 256 QAM	273@0	97.054	100.3
77	30	100	656000	3840.0	DFT-s- OFDM PI/2 BPSK	270@0	96.317	99.28
77	30	100	656000	3840.0	DFT-s- OFDM QPSK	270@0	96.047	99.65
77	30	100	656000	3840.0	DFT-s- OFDM 16 QAM	270@0	96.168	99.39
77	30	100	656000	3840.0	DFT-s- OFDM 64 QAM	270@0	96.293	99.56
77	30	100	656000	3840.0	DFT-s- OFDM 256 QAM	270@0	96.257	99.39
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.403	100.4
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.042	100.5
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.050	100.5
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	96.947	100.4
77	30	100	662000	3930.0	DFT-s- OFDM PI/2 BPSK	270@0	96.043	99.38
77	30	100	662000	3930.0	DFT-s- OFDM QPSK	270@0	96.011	99.52
77	30	100	662000	3930.0	DFT-s- OFDM 16 QAM	270@0	96.338	99.31
77	30	100	662000	3930.0	DFT-s- OFDM 64 QAM	270@0	96.177	99.81
77	30	100	662000	3930.0	DFT-s- OFDM 256 QAM	270@0	96.100	99.42
77	30	100	662000	3930.0	CP-OFDM QPSK	273@0	97.178	100.6
77	30	100	662000	3930.0	CP-OFDM 16 QAM	273@0	97.049	100.6



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77	30	100	662000	3930.0	CP-OFDM 64 QAM	273@0	97.213	100.4
77	30	100	662000	3930.0	CP-OFDM 256 QAM	273@0	97.157	100.4

n77 (3450 MHz ~ 3550 MHz)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	630334	3455.01	DFT-s-OFDM PI/2 BPSK	24@0	8.6079	9.412
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	8.5731	9.083
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	24@0	8.5572	9.249
77	30	10	630334	3455.01	DFT-s-OFDM 64 QAM	24@0	8.5864	9.277
77	30	10	630334	3455.01	DFT-s-OFDM 256 QAM	24@0	8.5493	9.206
77	30	10	630334	3455.01	CP-OFDM QPSK	24@0	8.5668	9.322
77	30	10	630334	3455.01	CP-OFDM 16 QAM	24@0	8.5663	9.415
77	30	10	630334	3455.01	CP-OFDM 64 QAM	24@0	8.5655	9.344
77	30	10	630334	3455.01	CP-OFDM 256 QAM	24@0	8.5616	9.291
77	30	10	633334	3500.01	DFT-s-OFDM PI/2 BPSK	24@0	8.5579	9.238
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	24@0	8.5574	9.225
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	24@0	8.567	9.228
77	30	10	633334	3500.01	DFT-s-OFDM 64 QAM	24@0	8.5532	9.160
77	30	10	633334	3500.01	DFT-s-OFDM 256 QAM	24@0	8.5608	9.259



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77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5514	9.395
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5916	9.353
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5722	9.252
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.6023	9.280
77	30	10	636332	3544.98	DFT-s- OFDM PI/2 BPSK	24@0	8.5889	9.289
77	30	10	636332	3544.98	DFT-s- OFDM QPSK	24@0	8.5329	9.250
77	30	10	636332	3544.98	DFT-s- OFDM 16 QAM	24@0	8.5591	9.289
77	30	10	636332	3544.98	DFT-s- OFDM 64 QAM	24@0	8.5516	9.246
77	30	10	636332	3544.98	DFT-s- OFDM 256 QAM	24@0	8.5498	9.204
77	30	10	636332	3544.98	CP-OFDM QPSK	24@0	8.5958	9.292
77	30	10	636332	3544.98	CP-OFDM 16 QAM	24@0	8.5779	9.306
77	30	10	636332	3544.98	CP-OFDM 64 QAM	24@0	8.607	9.240
77	30	10	636332	3544.98	CP-OFDM 256 QAM	24@0	8.6061	9.207
77	30	15	630500	3457.5	DFT-s- OFDM PI/2 BPSK	36@0	12.814	13.56
77	30	15	630500	3457.5	DFT-s- OFDM QPSK	36@0	12.796	13.71
77	30	15	630500	3457.5	DFT-s- OFDM 16 QAM	36@0	12.864	13.88
77	30	15	630500	3457.5	DFT-s- OFDM 64 QAM	36@0	12.822	13.54
77	30	15	630500	3457.5	DFT-s- OFDM 256 QAM	36@0	12.844	13.85
77	30	15	630500	3457.5	CP-OFDM QPSK	38@0	13.559	14.44



77	30	15	630500	3457.5	CP-OFDM 16 QAM	38@0	13.574	14.44
77	30	15	630500	3457.5	CP-OFDM 64 QAM	38@0	13.573	14.50
77	30	15	630500	3457.5	CP-OFDM 256 QAM	38@0	13.574	14.57
77	30	15	633334	3500.01	DFT-s- OFDM PI/2 BPSK	36@0	12.804	13.87
77	30	15	633334	3500.01	DFT-s- OFDM QPSK	36@0	12.861	13.49
77	30	15	633334	3500.01	DFT-s- OFDM 16 QAM	36@0	12.921	13.64
77	30	15	633334	3500.01	DFT-s- OFDM 64 QAM	36@0	12.827	13.74
77	30	15	633334	3500.01	DFT-s- OFDM 256 QAM	36@0	12.858	13.71
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.563	14.38
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.537	14.49
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.555	14.32
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.606	14.28
77	30	15	636166	3542.49	DFT-s- OFDM PI/2 BPSK	36@0	12.795	13.54
77	30	15	636166	3542.49	DFT-s- OFDM QPSK	36@0	12.886	13.88
77	30	15	636166	3542.49	DFT-s- OFDM 16 QAM	36@0	12.842	13.90
77	30	15	636166	3542.49	DFT-s- OFDM 64 QAM	36@0	12.870	13.74
77	30	15	636166	3542.49	DFT-s- OFDM 256 QAM	36@0	12.825	13.87
77	30	15	636166	3542.49	CP-OFDM QPSK	38@0	13.593	14.42
77	30	15	636166	3542.49	CP-OFDM 16 QAM	38@0	13.505	14.39



77	30	15	636166	3542.49	CP-OFDM 64 QAM	38@0	13.553	14.44
77	30	15	636166	3542.49	CP-OFDM 256 QAM	38@0	13.553	14.47
77	30	20	630668	3460.02	DFT-s- OFDM PI/2 BPSK	50@0	17.806	18.84
77	30	20	630668	3460.02	DFT-s- OFDM QPSK	50@0	17.781	18.82
77	30	20	630668	3460.02	DFT-s- OFDM 16 QAM	50@0	17.747	18.72
77	30	20	630668	3460.02	DFT-s- OFDM 64 QAM	50@0	17.822	19.09
77	30	20	630668	3460.02	DFT-s- OFDM 256 QAM	50@0	17.838	19.09
77	30	20	630668	3460.02	CP-OFDM QPSK	51@0	18.228	19.05
77	30	20	630668	3460.02	CP-OFDM 16 QAM	51@0	18.245	19.41
77	30	20	630668	3460.02	CP-OFDM 64 QAM	51@0	18.295	19.13
77	30	20	630668	3460.02	CP-OFDM 256 QAM	51@0	18.191	19.18
77	30	20	633334	3500.01	DFT-s- OFDM PI/2 BPSK	50@0	17.755	18.82
77	30	20	633334	3500.01	DFT-s- OFDM QPSK	50@0	17.829	19.02
77	30	20	633334	3500.01	DFT-s- OFDM 16 QAM	50@0	17.793	18.57
77	30	20	633334	3500.01	DFT-s- OFDM 64 QAM	50@0	17.831	18.61
77	30	20	633334	3500.01	DFT-s- OFDM 256 QAM	50@0	17.849	18.88
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.234	19.23
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.211	19.07
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.167	19.37



77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.147	19.15
77	30	20	636000	3540.0	DFT-s- OFDM PI/2 BPSK	50@0	17.805	18.93
77	30	20	636000	3540.0	DFT-s- OFDM QPSK	50@0	17.802	18.67
77	30	20	636000	3540.0	DFT-s- OFDM 16 QAM	50@0	17.82	18.95
77	30	20	636000	3540.0	DFT-s- OFDM 64 QAM	50@0	17.783	18.61
77	30	20	636000	3540.0	DFT-s- OFDM 256 QAM	50@0	17.859	18.81
77	30	20	636000	3540.0	CP-OFDM QPSK	51@0	18.158	19.12
77	30	20	636000	3540.0	CP-OFDM 16 QAM	51@0	18.164	19.04
77	30	20	636000	3540.0	CP-OFDM 64 QAM	51@0	18.198	19.12
77	30	20	636000	3540.0	CP-OFDM 256 QAM	51@0	18.213	19.35
77	30	40	631334	3470.01	DFT-s- OFDM PI/2 BPSK	100@0	35.665	37.15
77	30	40	631334	3470.01	DFT-s- OFDM QPSK	100@0	35.733	37.3
77	30	40	631334	3470.01	DFT-s- OFDM 16 QAM	100@0	35.605	37.04
77	30	40	631334	3470.01	DFT-s- OFDM 64 QAM	100@0	35.657	36.95
77	30	40	631334	3470.01	DFT-s- OFDM 256 QAM	100@0	35.627	36.99
77	30	40	631334	3470.01	CP-OFDM QPSK	106@0	37.776	39.19
77	30	40	631334	3470.01	CP-OFDM 16 QAM	106@0	37.908	39.39
77	30	40	631334	3470.01	CP-OFDM 64 QAM	106@0	37.811	39.62
77	30	40	631334	3470.01	CP-OFDM 256 QAM	106@0	37.846	39.27



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77	30	40	633334	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.732	37.20
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	100@0	35.753	37.09
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	100@0	35.699	37.34
77	30	40	633334	3500.01	DFT-s-OFDM 64 QAM	100@0	35.789	36.93
77	30	40	633334	3500.01	DFT-s-OFDM 256 QAM	100@0	35.687	37.39
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.783	39.32
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.731	39.17
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.802	39.13
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.864	39.97
77	30	40	635332	3500.01	DFT-s-OFDM PI/2 BPSK	100@0	35.693	37.57
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	100@0	35.688	36.97
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	100@0	35.712	37.13
77	30	40	635332	3529.98	DFT-s-OFDM 64 QAM	100@0	35.703	37.37
77	30	40	635332	3529.98	DFT-s-OFDM 256 QAM	100@0	35.849	37.21
77	30	40	635332	3529.98	CP-OFDM QPSK	106@0	37.782	39.12
77	30	40	635332	3529.98	CP-OFDM 16 QAM	106@0	37.759	39.25
77	30	40	635332	3529.98	CP-OFDM 64 QAM	106@0	37.901	39.23
77	30	40	635332	3529.98	CP-OFDM 256 QAM	106@0	37.746	39.60
77	30	50	631668	3475.02	DFT-s-OFDM PI/2 BPSK	128@0	45.465	47.50



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77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	45.620	47.49
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	128@0	45.657	48.06
77	30	50	631668	3475.02	DFT-s-OFDM 64 QAM	128@0	45.807	48.13
77	30	50	631668	3475.02	DFT-s-OFDM 256 QAM	128@0	45.740	48.38
77	30	50	631668	3475.02	CP-OFDM QPSK	133@0	47.465	49.23
77	30	50	631668	3475.02	CP-OFDM 16 QAM	133@0	47.428	49.24
77	30	50	631668	3475.02	CP-OFDM 64 QAM	133@0	47.418	49.03
77	30	50	631668	3475.02	CP-OFDM 256 QAM	133@0	47.252	49.04
77	30	50	633334	3500.01	DFT-s-OFDM PI/2 BPSK	128@0	45.632	48.05
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	128@0	45.754	47.56
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	128@0	45.726	47.58
77	30	50	633334	3500.01	DFT-s-OFDM 64 QAM	128@0	45.820	47.66
77	30	50	633334	3500.01	DFT-s-OFDM 256 QAM	128@0	45.655	47.61
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.420	49.09
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.472	49.27
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.521	49.18
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.407	49.05
77	30	50	635000	3525.0	DFT-s-OFDM PI/2 BPSK	128@0	45.741	47.55
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	45.778	48.01



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77	30	50	635000	3525.0	DFT-s-OFDM 16 QAM	128@0	45.693	47.30
77	30	50	635000	3525.0	DFT-s-OFDM 64 QAM	128@0	45.734	47.35
77	30	50	635000	3525.0	DFT-s-OFDM 256 QAM	128@0	45.705	47.26
77	30	50	635000	3525.0	CP-OFDM QPSK	133@0	47.448	49.20
77	30	50	635000	3525.0	CP-OFDM 16 QAM	133@0	47.446	49.06
77	30	50	635000	3525.0	CP-OFDM 64 QAM	133@0	47.427	49.42
77	30	50	635000	3525.0	CP-OFDM 256 QAM	133@0	47.377	49.08
77	30	60	632000	3480.0	DFT-s-OFDM PI/2 BPSK	162@0	57.712	59.89
77	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	57.790	60.00
77	30	60	632000	3480.0	DFT-s-OFDM 16 QAM	162@0	57.705	59.89
77	30	60	632000	3480.0	DFT-s-OFDM 64 QAM	162@0	57.739	59.83
77	30	60	632000	3480.0	DFT-s-OFDM 256 QAM	162@0	57.730	59.82
77	30	60	632000	3480.0	CP-OFDM QPSK	162@0	57.834	59.90
77	30	60	632000	3480.0	CP-OFDM 16 QAM	162@0	57.782	59.68
77	30	60	632000	3480.0	CP-OFDM 64 QAM	162@0	57.79	59.94
77	30	60	632000	3480.0	CP-OFDM 256 QAM	162@0	57.722	59.67
77	30	60	633334	3500.01	DFT-s-OFDM PI/2 BPSK	162@0	57.874	59.95
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	162@0	57.809	59.95
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	162@0	57.736	59.86



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77	30	60	633334	3500.01	DFT-s-OFDM 64 QAM	162@0	57.842	59.93
77	30	60	633334	3500.01	DFT-s-OFDM 256 QAM	162@0	57.753	59.92
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.599	59.79
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.665	59.79
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.656	59.91
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.791	59.87
77	30	60	634666	3519.99	DFT-s-OFDM PI/2 BPSK	162@0	57.770	59.89
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	57.822	59.95
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	162@0	57.860	59.72
77	30	60	634666	3519.99	DFT-s-OFDM 64 QAM	162@0	57.700	59.83
77	30	60	634666	3519.99	DFT-s-OFDM 256 QAM	162@0	57.861	60.48
77	30	60	634666	3519.99	CP-OFDM QPSK	162@0	57.714	59.68
77	30	60	634666	3519.99	CP-OFDM 16 QAM	162@0	57.694	59.75
77	30	60	634666	3519.99	CP-OFDM 64 QAM	162@0	57.662	59.72
77	30	60	634666	3519.99	CP-OFDM 256 QAM	162@0	57.731	59.83
77	30	80	632668	3519.99	DFT-s-OFDM PI/2 BPSK	216@0	76.930	79.56
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	216@0	76.987	79.60
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	216@0	77.176	81.61
77	30	80	632668	3490.02	DFT-s-OFDM 64 QAM	216@0	77.115	79.85



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77	30	80	632668	3490.02	DFT-s-OFDM 256 QAM	216@0	76.965	79.68
77	30	80	632668	3490.02	CP-OFDM QPSK	217@0	77.386	79.96
77	30	80	632668	3490.02	CP-OFDM 16 QAM	217@0	77.365	80.15
77	30	80	632668	3490.02	CP-OFDM 64 QAM	217@0	77.259	79.96
77	30	80	632668	3490.02	CP-OFDM 256 QAM	217@0	77.375	79.92
77	30	80	633334	3500.01	DFT-s-OFDM PI/2 BPSK	216@0	77.047	79.92
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	216@0	76.862	79.53
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	216@0	76.977	79.75
77	30	80	633334	3500.01	DFT-s-OFDM 64 QAM	216@0	76.901	79.62
77	30	80	633334	3500.01	DFT-s-OFDM 256 QAM	216@0	76.942	79.44
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.21	79.98
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.319	79.94
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.315	80.07
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.324	80.12
77	30	80	634000	3510.0	DFT-s-OFDM PI/2 BPSK	216@0	77.08	79.75
77	30	80	634000	3510.0	DFT-s-OFDM QPSK	216@0	77.012	79.47
77	30	80	634000	3510.0	DFT-s-OFDM 16 QAM	216@0	77.133	79.77
77	30	80	634000	3510.0	DFT-s-OFDM 64 QAM	216@0	77.097	79.60
77	30	80	634000	3510.0	DFT-s-OFDM 256 QAM	216@0	76.965	79.49



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77	30	80	634000	3510.0	CP-OFDM QPSK	217@0	77.533	79.90
77	30	80	634000	3510.0	CP-OFDM 16 QAM	217@0	77.386	79.76
77	30	80	634000	3510.0	CP-OFDM 64 QAM	217@0	77.417	79.93
77	30	80	634000	3510.0	CP-OFDM 256 QAM	217@0	77.362	80.12
77	30	90	633000	3495.0	DFT-s- OFDM PI/2 BPSK	240@0	85.708	88.33
77	30	90	633000	3495.0	DFT-s- OFDM QPSK	240@0	85.644	88.46
77	30	90	633000	3495.0	DFT-s- OFDM 16 QAM	240@0	85.589	88.45
77	30	90	633000	3495.0	DFT-s- OFDM 64 QAM	240@0	85.444	88.55
77	30	90	633000	3495.0	DFT-s- OFDM 256 QAM	240@0	85.763	88.57
77	30	90	633000	3495.0	CP-OFDM QPSK	245@0	87.292	90.30
77	30	90	633000	3495.0	CP-OFDM 16 QAM	245@0	87.264	90.28
77	30	90	633000	3495.0	CP-OFDM 64 QAM	245@0	87.264	90.33
77	30	90	633000	3495.0	CP-OFDM 256 QAM	245@0	87.454	90.29
77	30	90	633334	3500.01	DFT-s- OFDM PI/2 BPSK	240@0	85.469	88.51
77	30	90	633334	3500.01	DFT-s- OFDM QPSK	240@0	85.683	88.75
77	30	90	633334	3500.01	DFT-s- OFDM 16 QAM	240@0	85.371	88.39
77	30	90	633334	3500.01	DFT-s- OFDM 64 QAM	240@0	85.680	88.66
77	30	90	633334	3500.01	DFT-s- OFDM 256 QAM	240@0	85.674	88.64
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.344	90.27

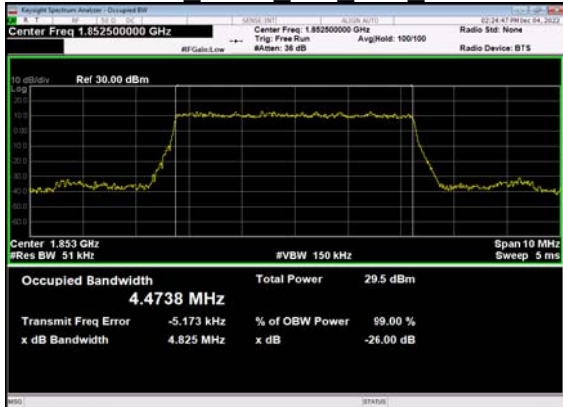
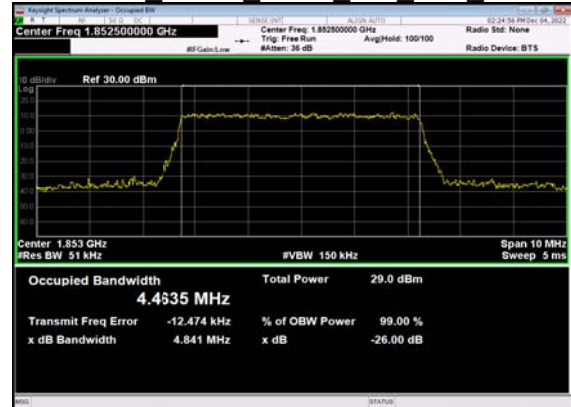
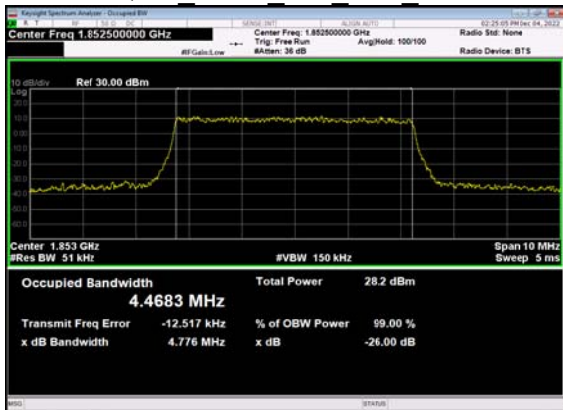
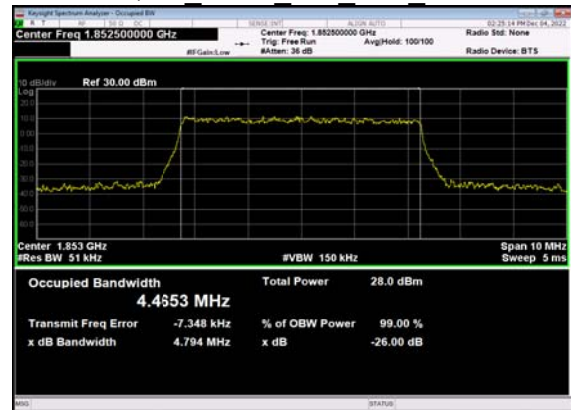


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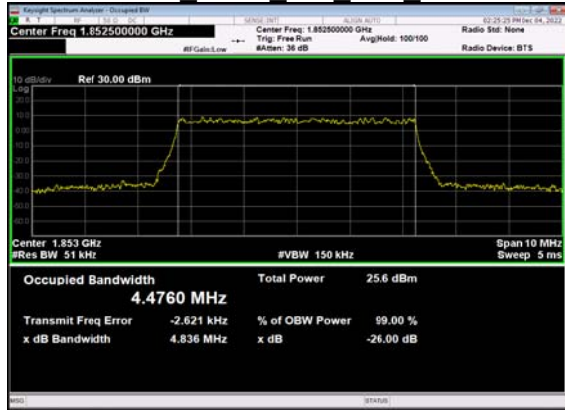
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.348	90.55
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.313	90.40
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.382	90.51
77	30	90	633666	3504.99	DFT-s- OFDM PI/2 BPSK	240@0	85.535	88.40
77	30	90	633666	3504.99	DFT-s- OFDM QPSK	240@0	85.733	88.39
77	30	90	633666	3504.99	DFT-s- OFDM 16 QAM	240@0	85.543	88.68
77	30	90	633666	3504.99	DFT-s- OFDM 64 QAM	240@0	85.599	88.68
77	30	90	633666	3504.99	DFT-s- OFDM 256 QAM	240@0	85.610	88.76
77	30	90	633666	3504.99	CP-OFDM QPSK	245@0	87.071	90.17
77	30	90	633666	3504.99	CP-OFDM 16 QAM	245@0	87.316	90.28
77	30	90	633666	3504.99	CP-OFDM 64 QAM	245@0	87.174	90.19
77	30	90	633666	3504.99	CP-OFDM 256 QAM	245@0	87.482	90.52
77	30	100	633334	3504.99	DFT-s- OFDM PI/2 BPSK	270@0	96.104	99.50
77	30	100	633334	3500.01	DFT-s- OFDM QPSK	270@0	96.127	99.39
77	30	100	633334	3500.01	DFT-s- OFDM 16 QAM	270@0	96.086	99.69
77	30	100	633334	3500.01	DFT-s- OFDM 64 QAM	270@0	96.079	99.50
77	30	100	633334	3500.01	DFT-s- OFDM 256 QAM	270@0	96.048	99.50
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.216	100.5
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.061	100.5



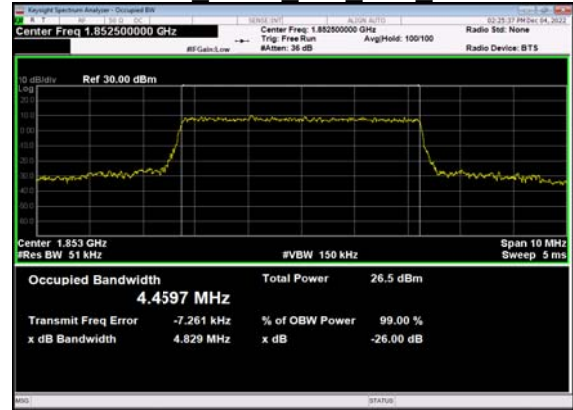
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.112	100.4
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.186	100.5

N2(5M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Low CHN2(5M)_DFT-s-
OFDM QPSK Outer Full Low CHN2(5M)_DFT-s-OFDM_16
QAM Outer Full Low CHN2(5M)_DFT-s-OFDM_64
QAM Outer Full Low CH

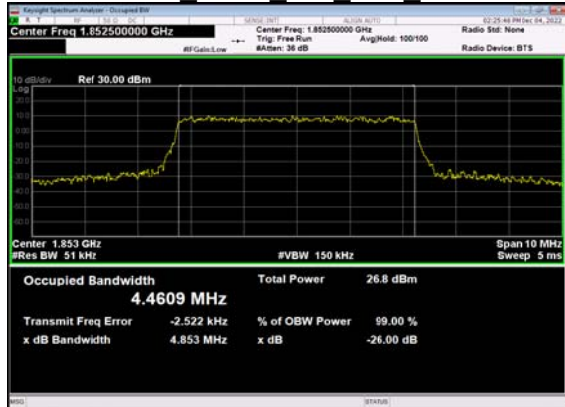
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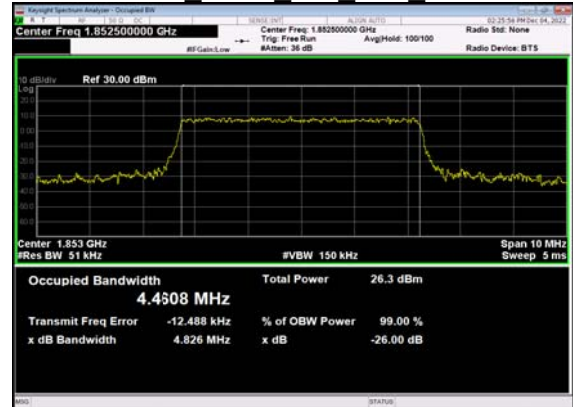
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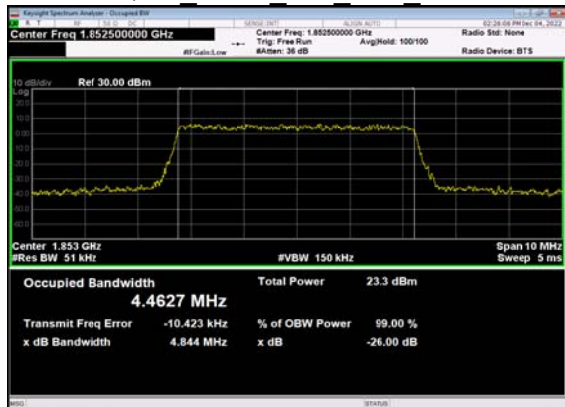
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QAM Outer Full Low CH



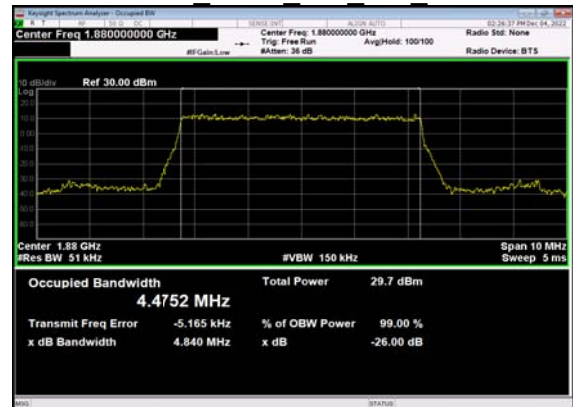
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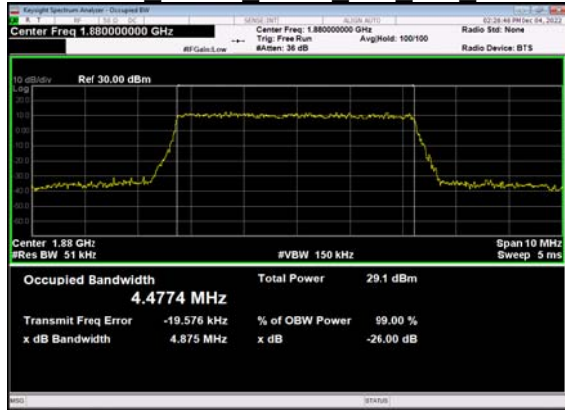
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QAM Outer Full Low CH



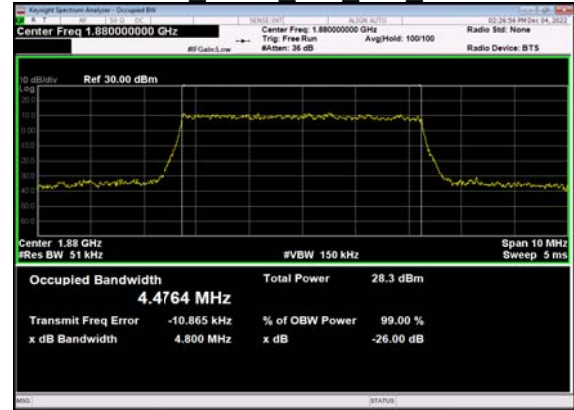
N2(5M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Mid CH



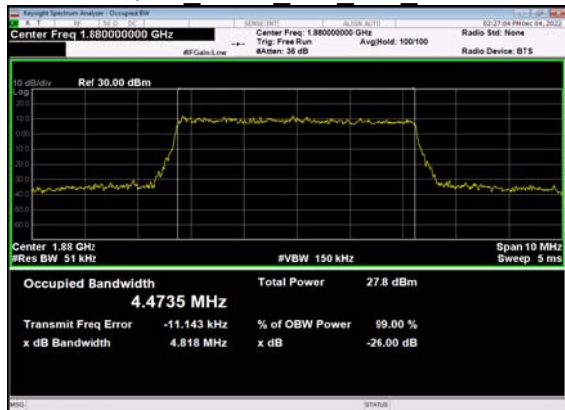
N2(5M)_DFT-s-OFDM QPSK Outer Full Mid CH



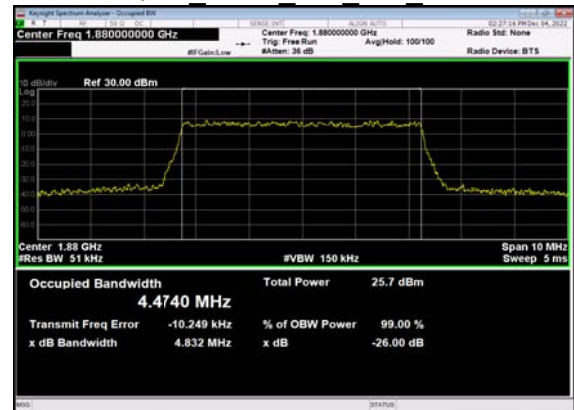
N2(5M)_DFT-s-OFDM_16 QAM Outer Full Mid CH



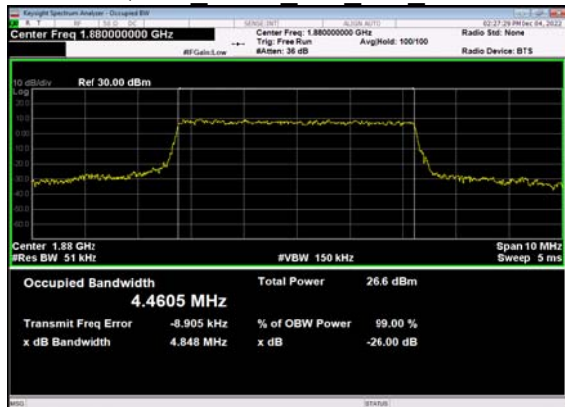
N2(5M)_DFT-s-OFDM_64 QAM Outer Full Mid CH



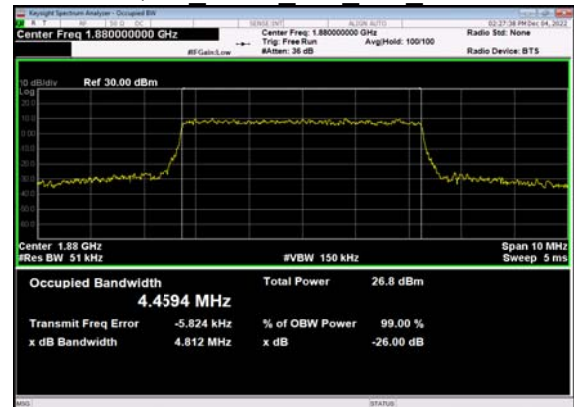
N2(5M)_DFT-s-OFDM_256 QAM Outer Full Mid CH



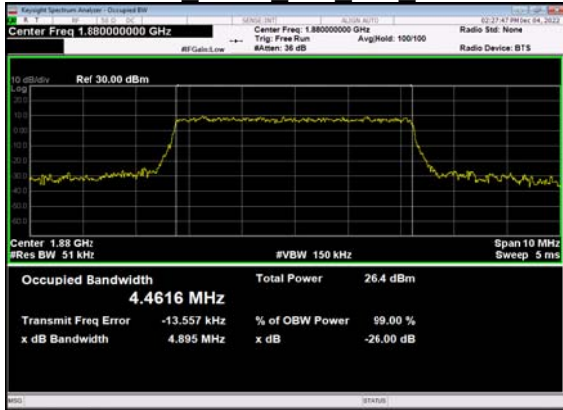
N2(5M)_CP-OFDM QPSK Outer Full Mid CH



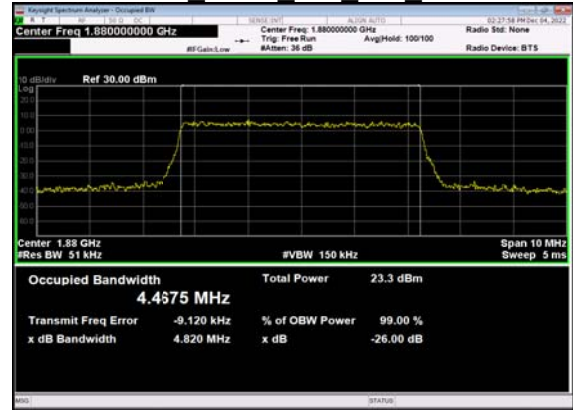
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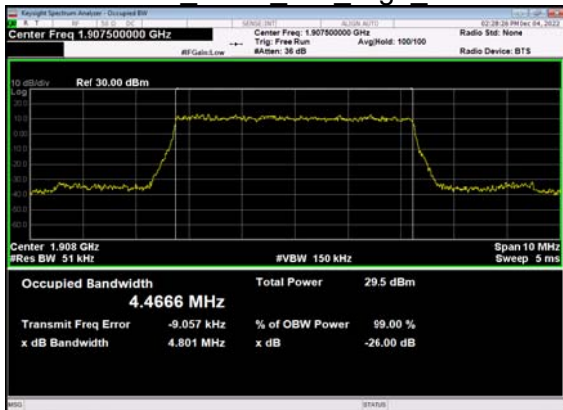
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QAM Outer Full Mid CH



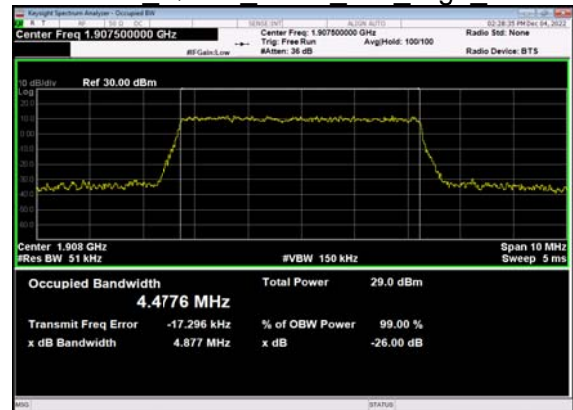
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QAM Outer Full Mid CH



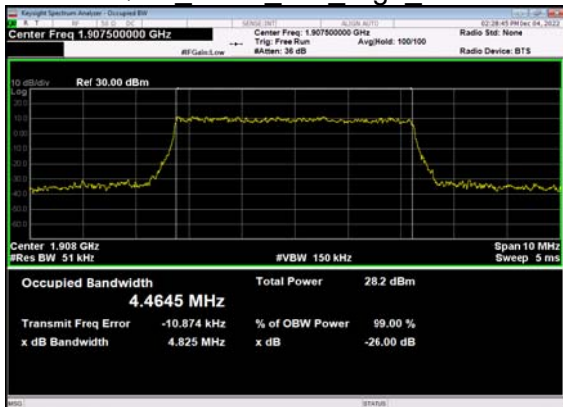
N2(5M)_DFT-s-OFDM_PI_2-
BPSK Outer Full High CH



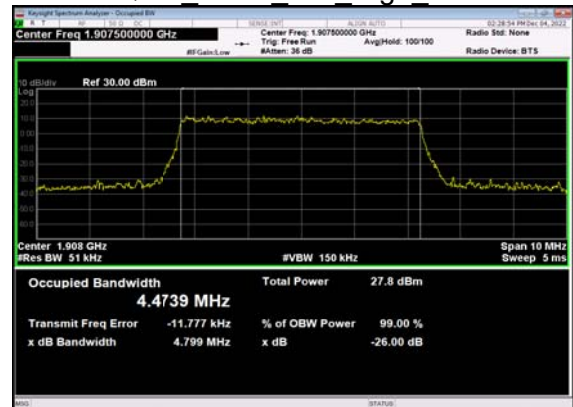
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OFDM QPSK Outer Full High CH



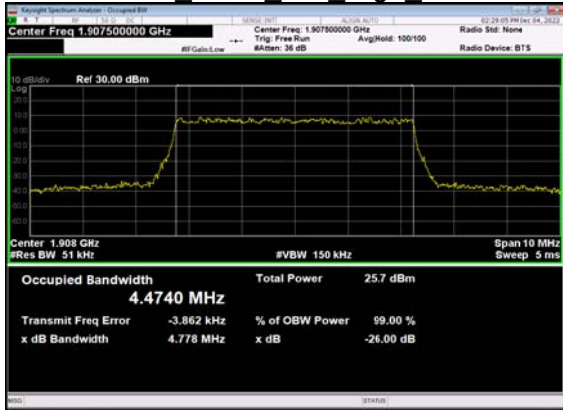
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QAM Outer Full High CH



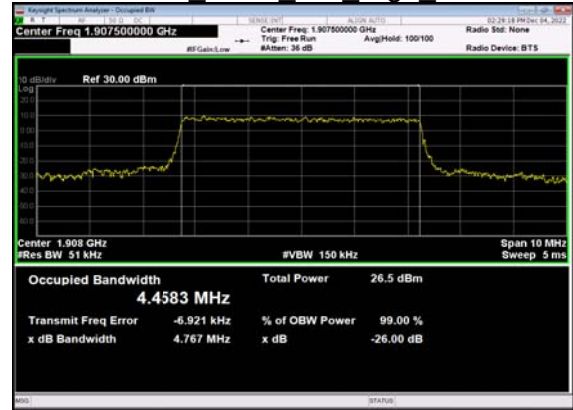
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QAM Outer Full High CH



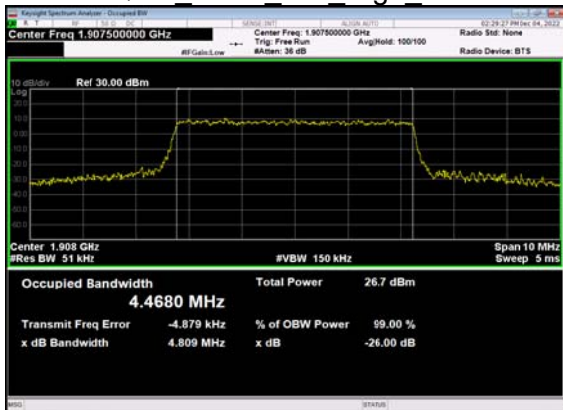
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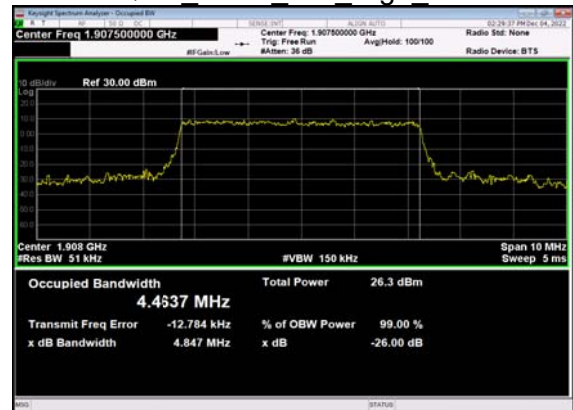
N2(5M)_CP-OFDM_ QPSK Outer Full High CH



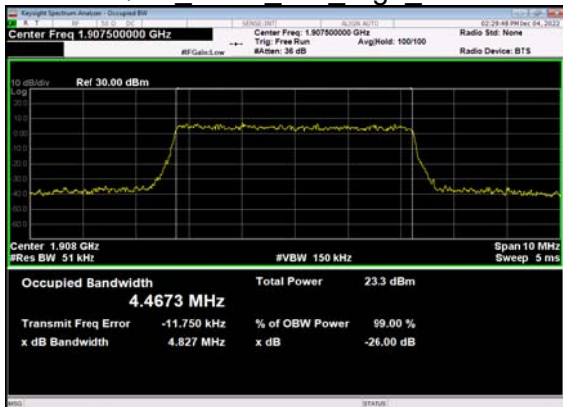
N2(5M)_CP-OFDM_16 QAM Outer Full High CH



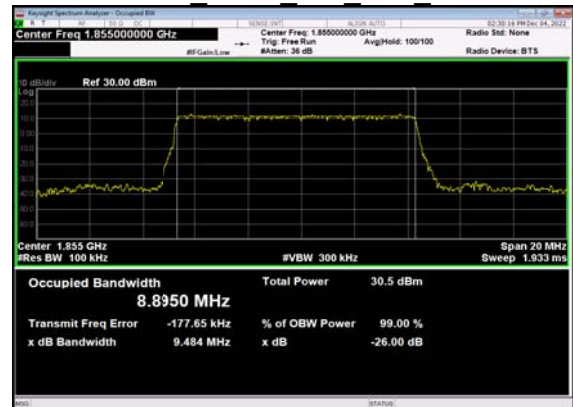
N2(5M)_CP-OFDM_64 QAM Outer Full High CH



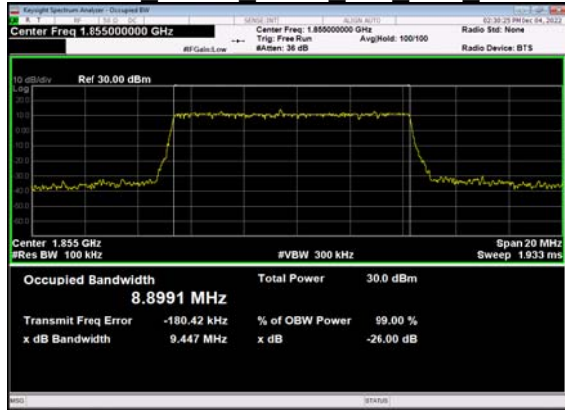
N2(5M)_CP-OFDM_256 QAM Outer Full High CH



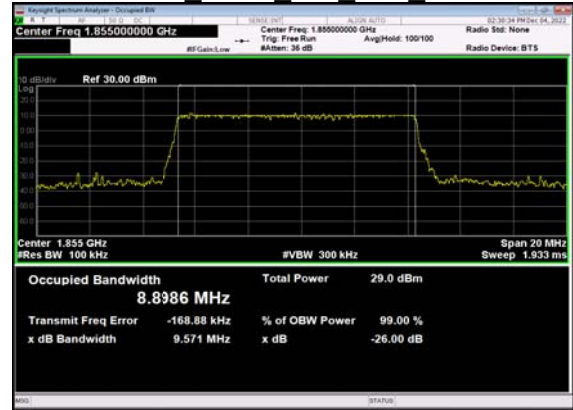
N2(10M)_DFT-s-OFDM_PI_2- BPSK Outer Full Low CH



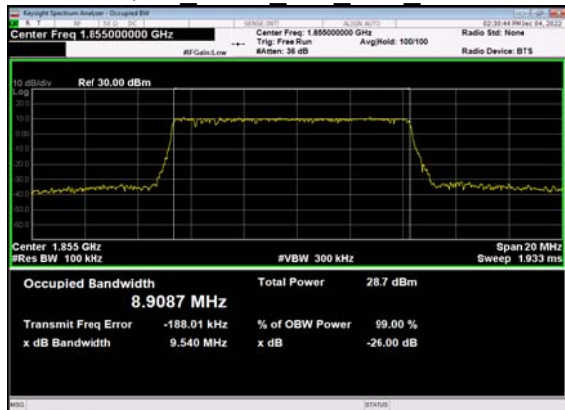
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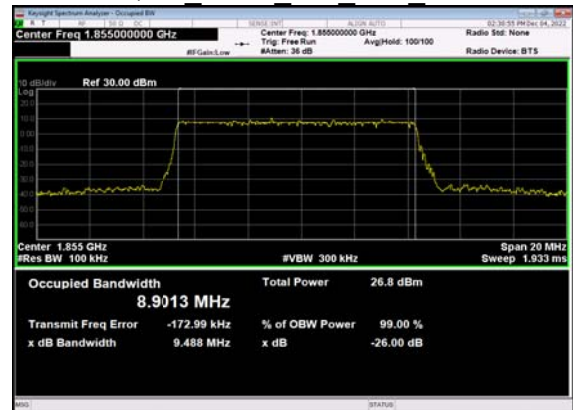
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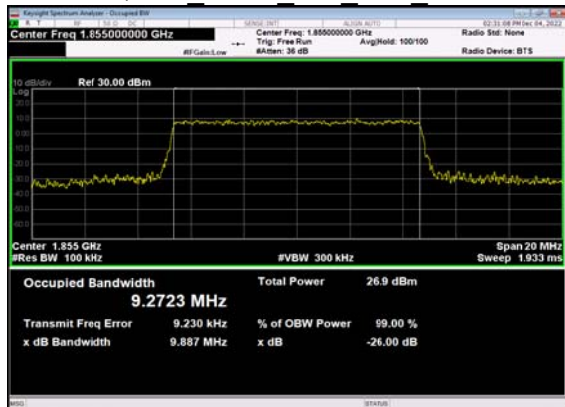
N2(10M)_DFT-s-OFDM_64 QAM Outer Full Low CH



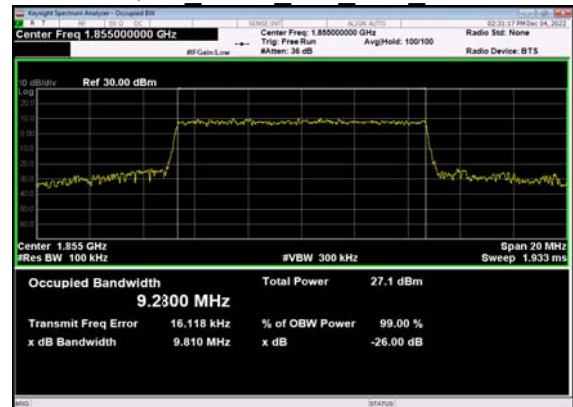
N2(10M)_DFT-s-OFDM_256 QAM Outer Full Low CH



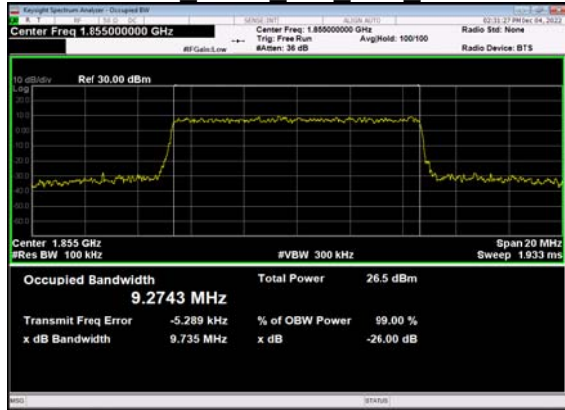
N2(10M)_CP-OFDM QPSK Outer Full Low CH



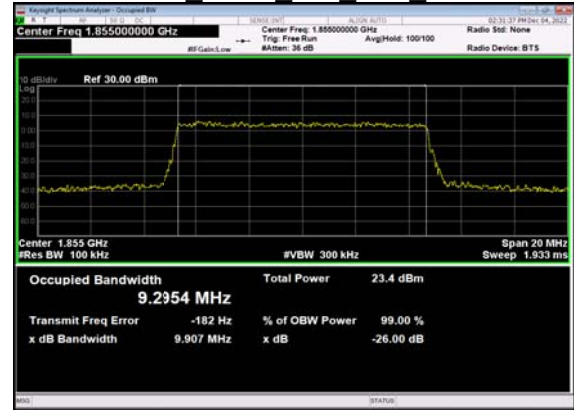
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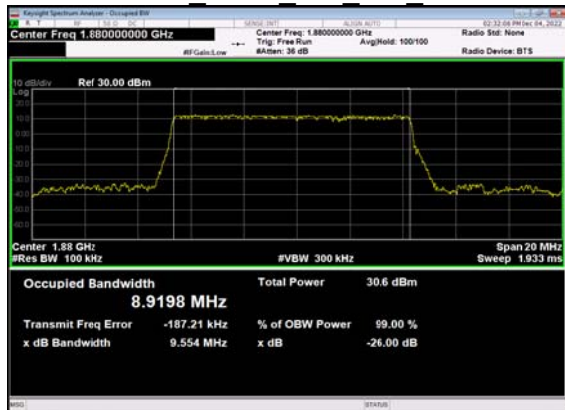
N2(10M)_CP-OFDM_64 QAM Outer Full Low CH



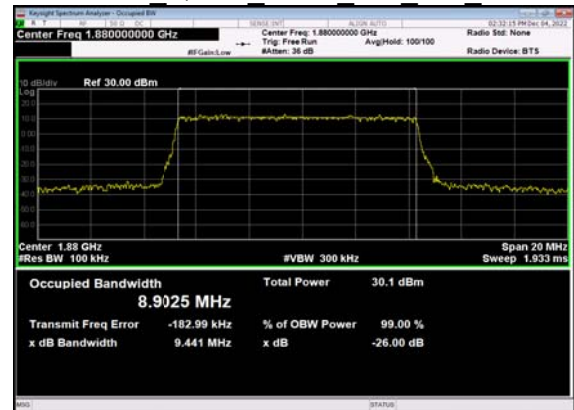
N2(10M)_CP-OFDM_256 QAM Outer Full Low CH



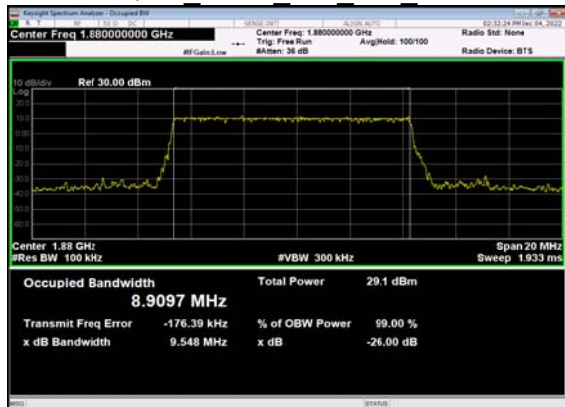
N2(10M)_DFT-s-OFDM_PI_2- BPSK Outer Full Mid CH



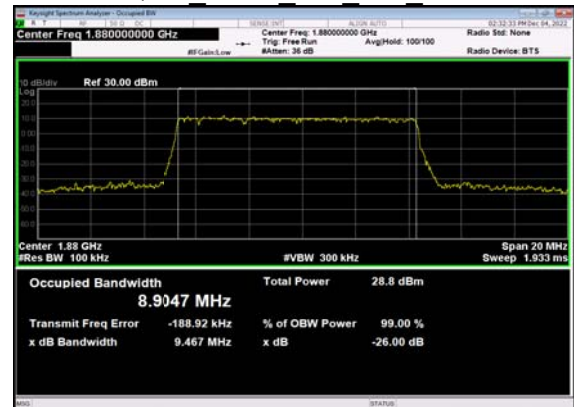
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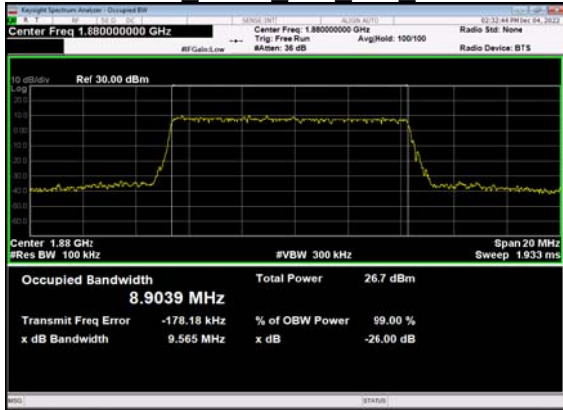
N2(10M)_DFT-s-OFDM_16 QAM Outer Full Mid CH



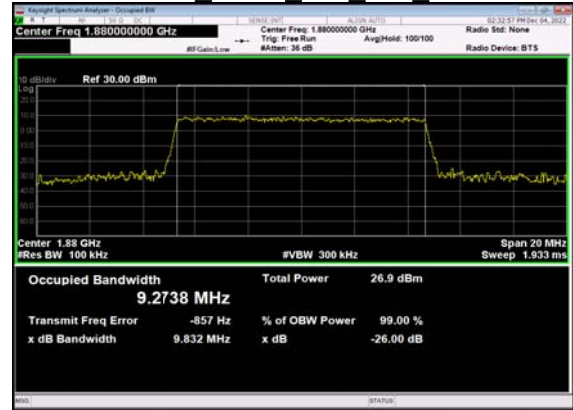
N2(10M)_DFT-s-OFDM_64 QAM Outer Full Mid CH



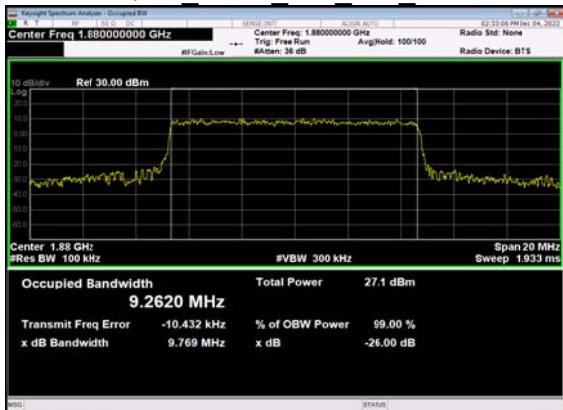
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QAM Outer Full Mid CH



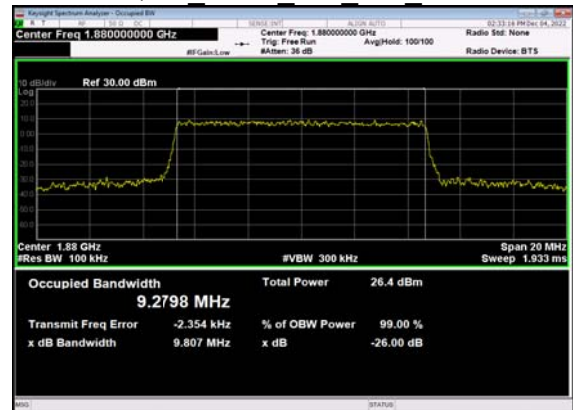
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QPSK Outer Full Mid CH



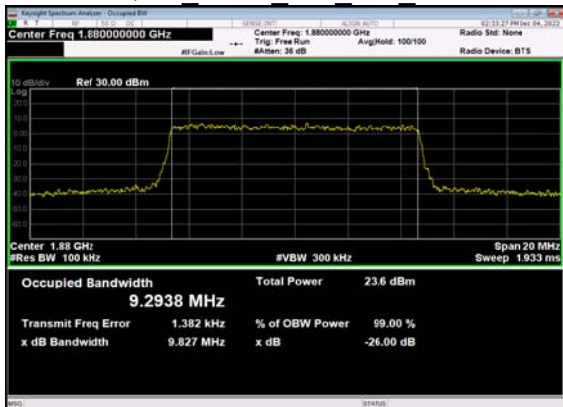
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QAM Outer Full Mid CH



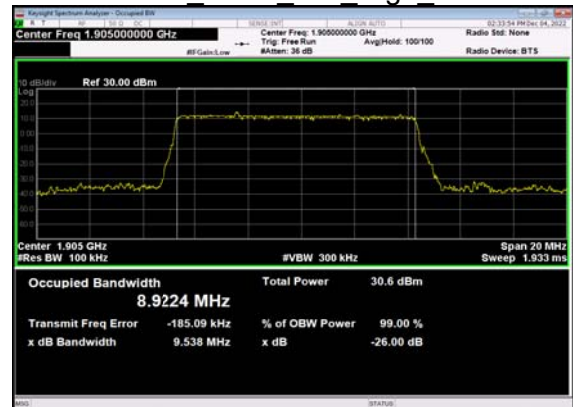
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QAM Outer Full Mid CH



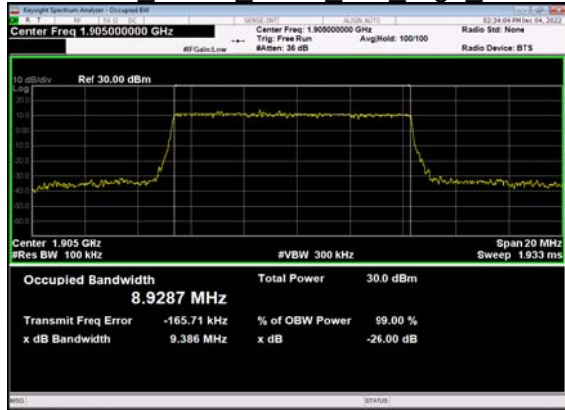
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QAM Outer Full Mid CH



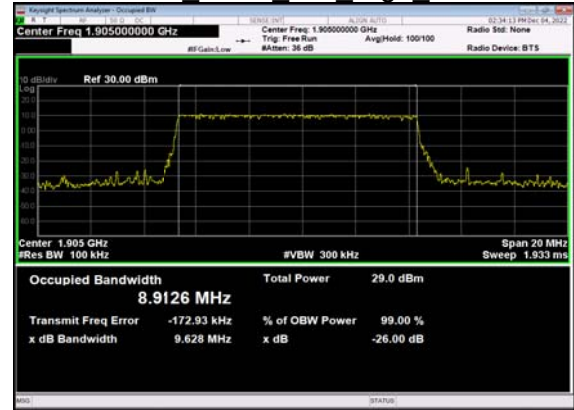
N2(10M)_DFT-s-OFDM_PI_2-
BPSK Outer Full High CH



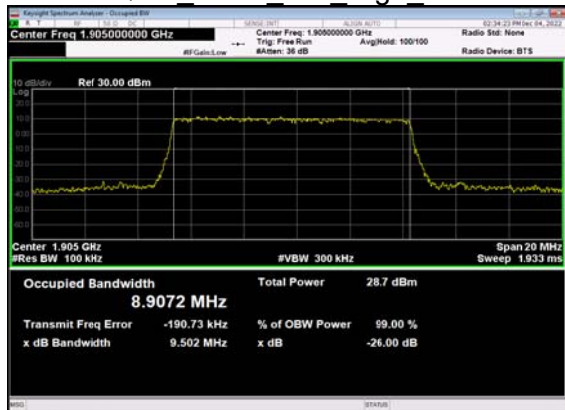
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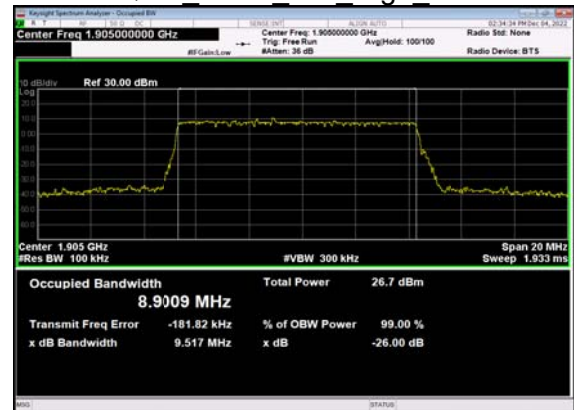
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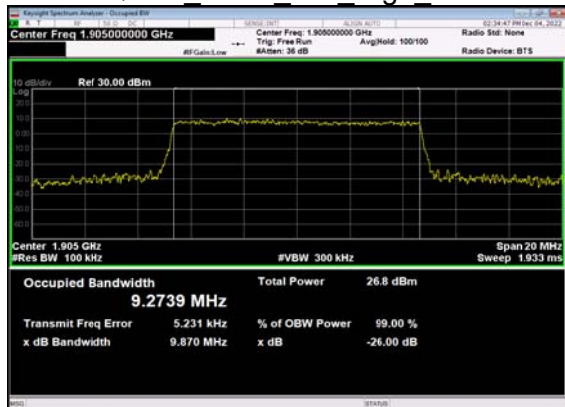
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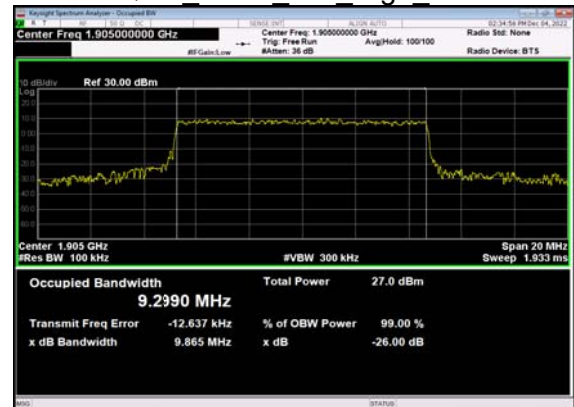
N2(10M)_DFT-s-OFDM_256 QAM Outer Full High CH



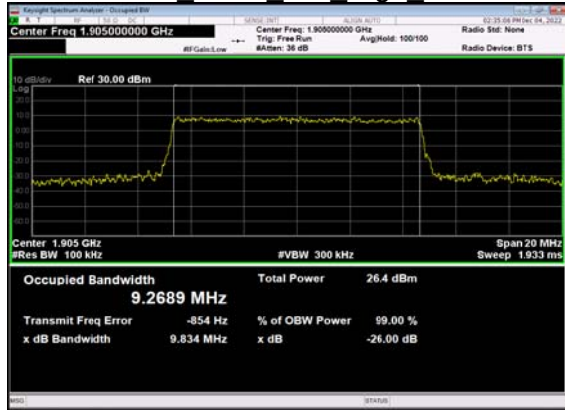
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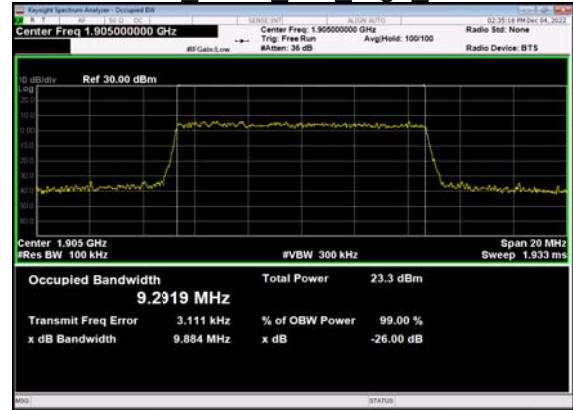
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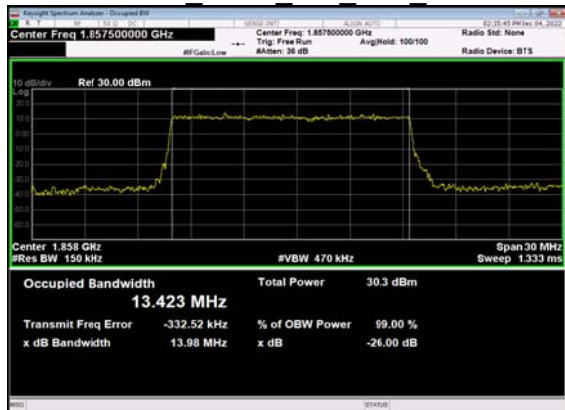
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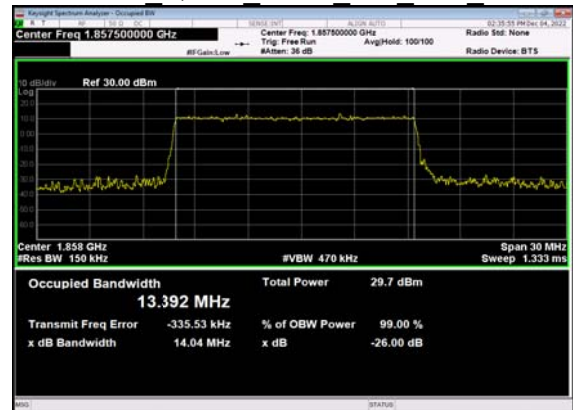
N2(10M)_CP-OFDM_256 QAM Outer Full High CH



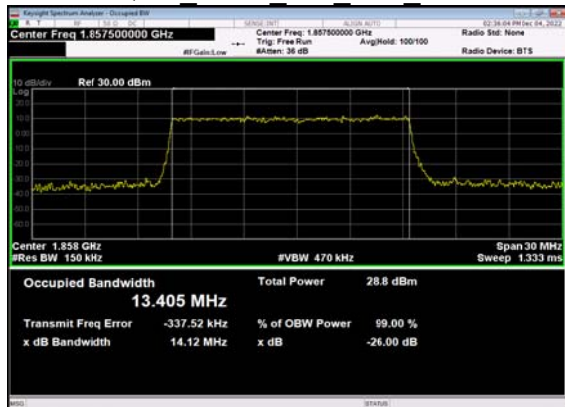
N2(15M)_DFT-s-OFDM_PI_2- BPSK Outer Full Low CH



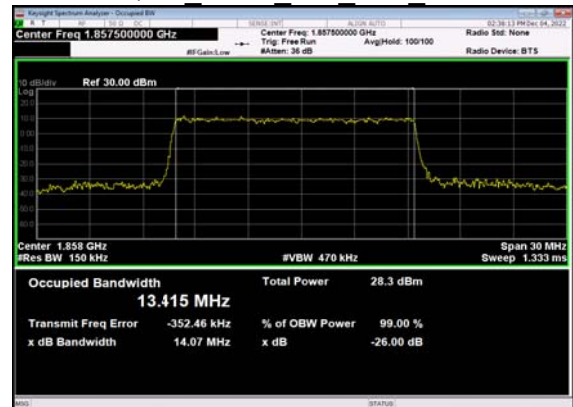
N2(15M)_DFT-s-OFDM QPSK Outer Full Low CH



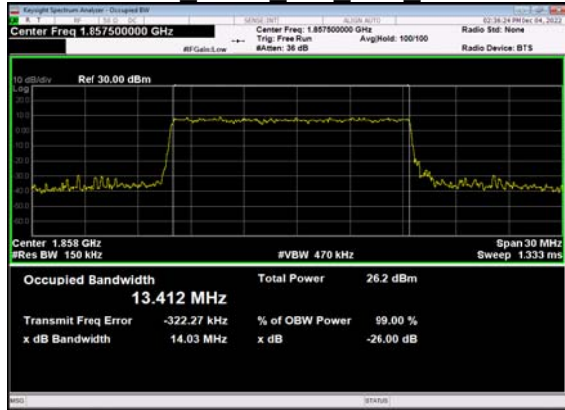
N2(15M)_DFT-s-OFDM_16 QAM Outer Full Low CH



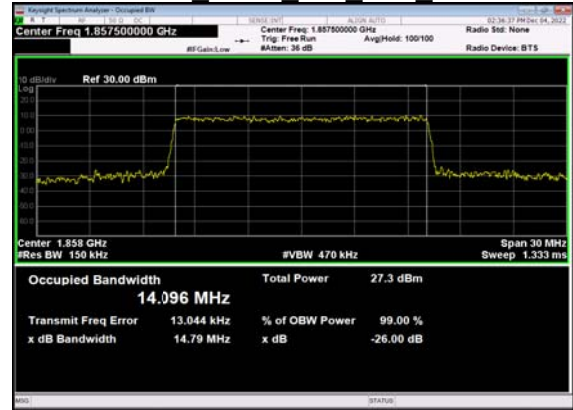
N2(15M)_DFT-s-OFDM_64 QAM Outer Full Low CH



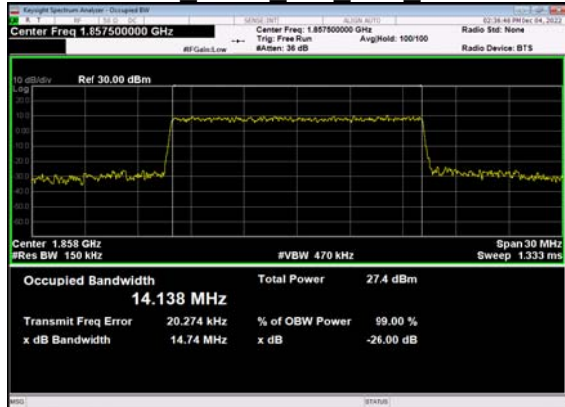
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QAM Outer Full Low CH



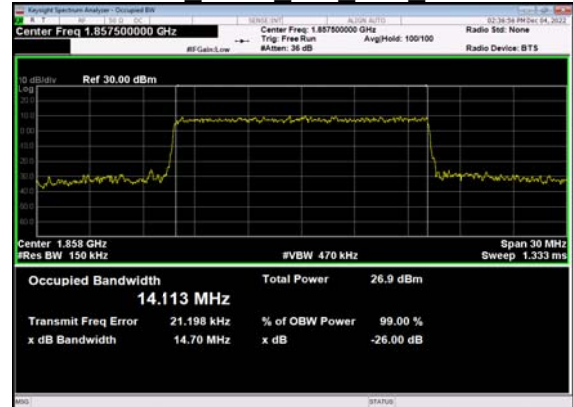
N2(15M)_CP-OFDM_
QPSK Outer Full Low CH



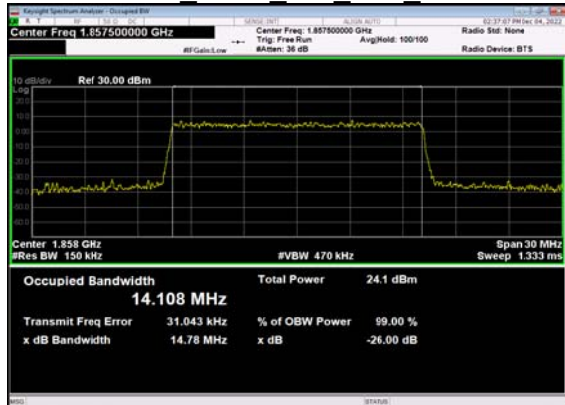
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QAM Outer Full Low CH



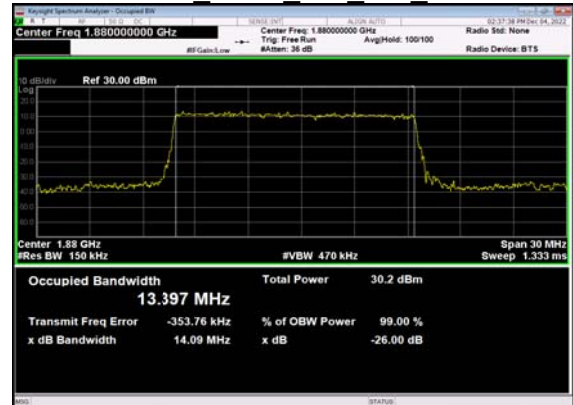
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QAM Outer Full Low CH



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

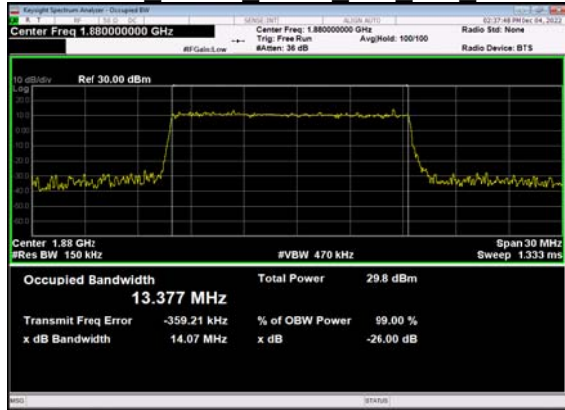


N2(15M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Mid CH

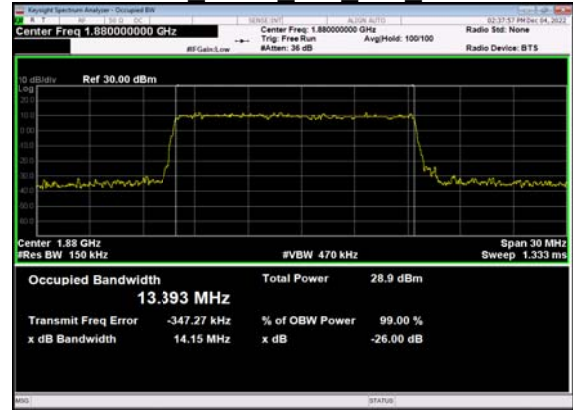




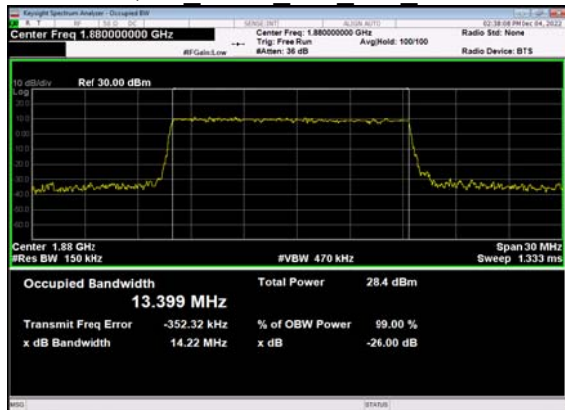
N2(15M)_DFT-s-OFDM QPSK Outer Full Mid CH



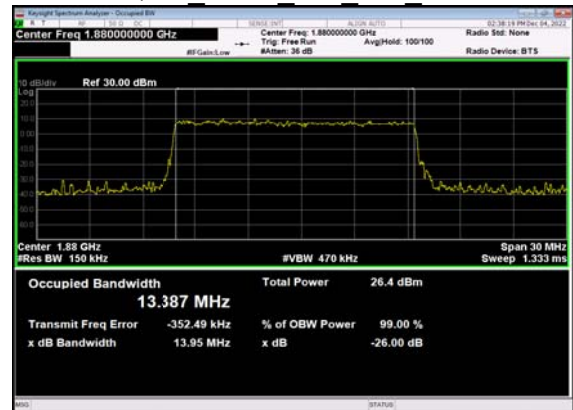
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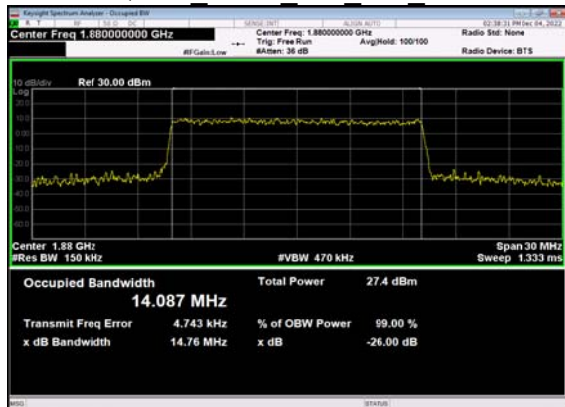
N2(15M)_DFT-s-OFDM_64 QAM Outer Full Mid CH



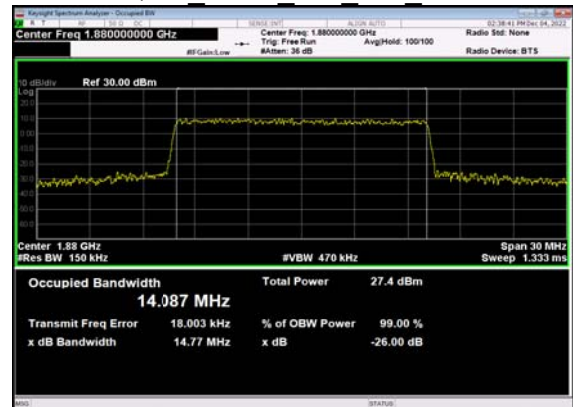
N2(15M)_DFT-s-OFDM_256 QAM Outer Full Mid CH



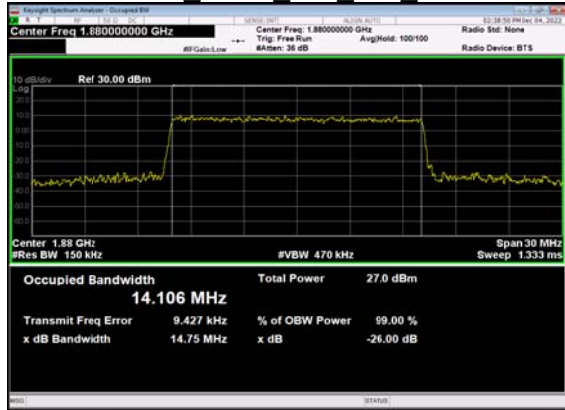
N2(15M)_CP-OFDM QPSK Outer Full Mid CH



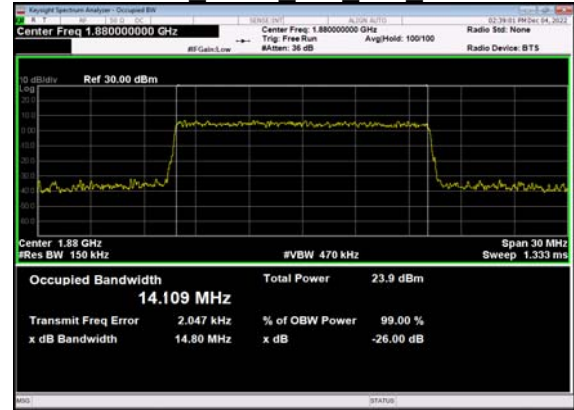
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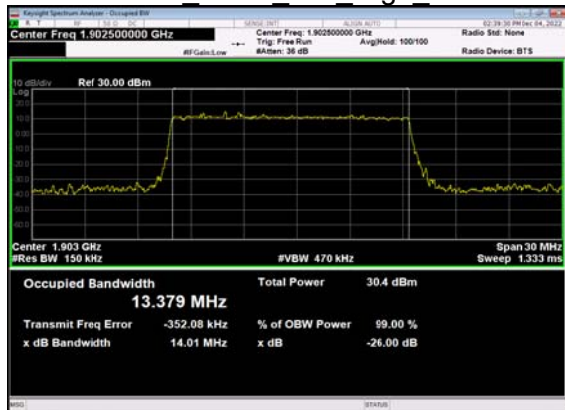
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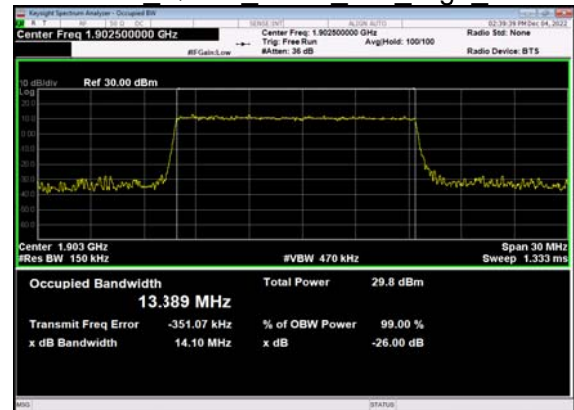
N2(15M)_CP-OFDM_256 QAM Outer Full Mid CH



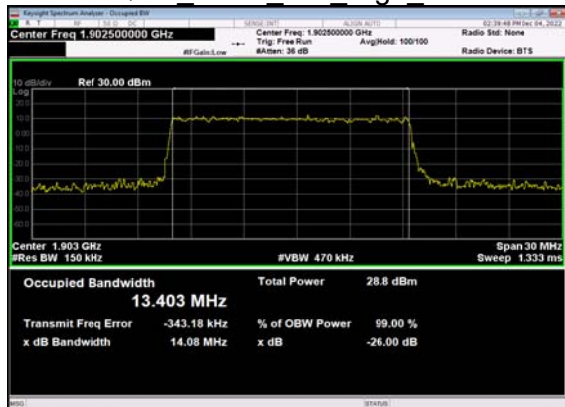
N2(15M)_DFT-s-OFDM_PI_2- BPSK Outer Full High CH



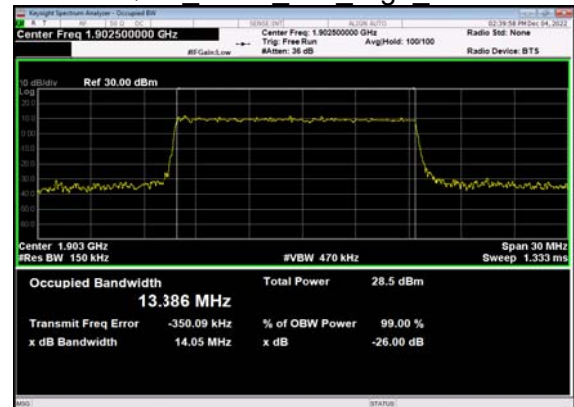
N2(15M)_DFT-s- OFDM QPSK Outer Full High CH



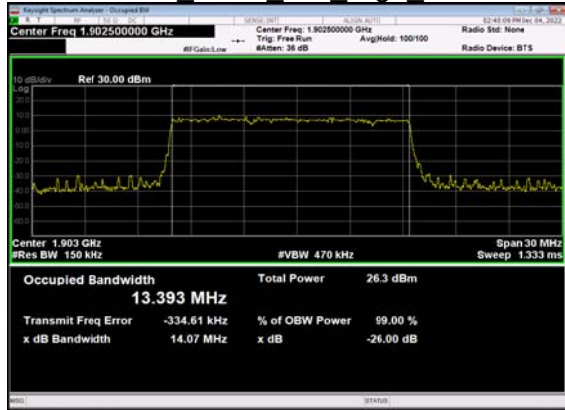
N2(15M)_DFT-s-OFDM_16 QAM Outer Full High CH



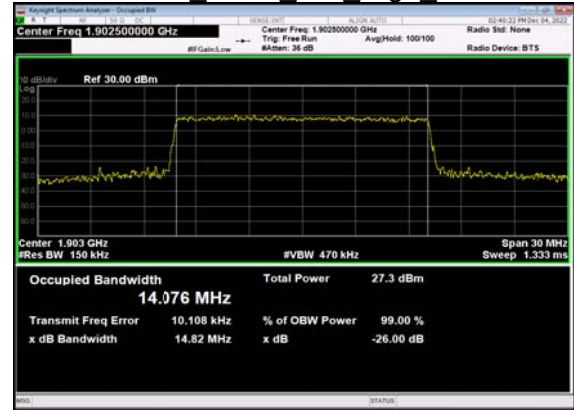
N2(15M)_DFT-s-OFDM_64 QAM Outer Full High CH



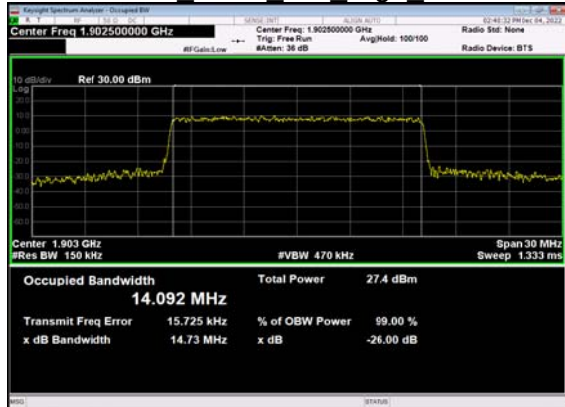
N2(15M)_DFT-s-OFDM_256
QAM Outer Full High CH



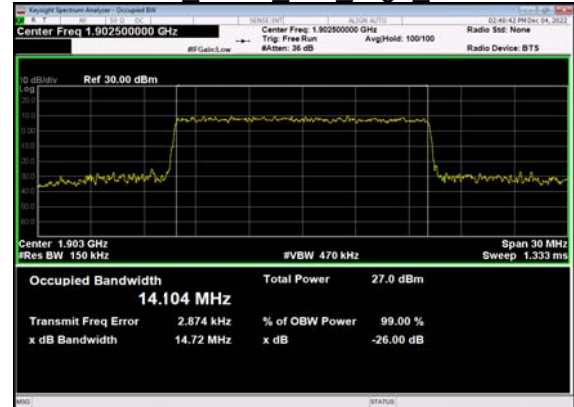
N2(15M)_CP-OFDM_
QPSK Outer Full High CH



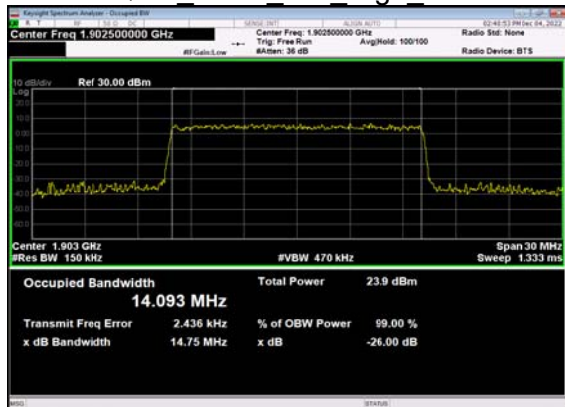
N2(15M)_CP-OFDM_16
QAM Outer Full High CH



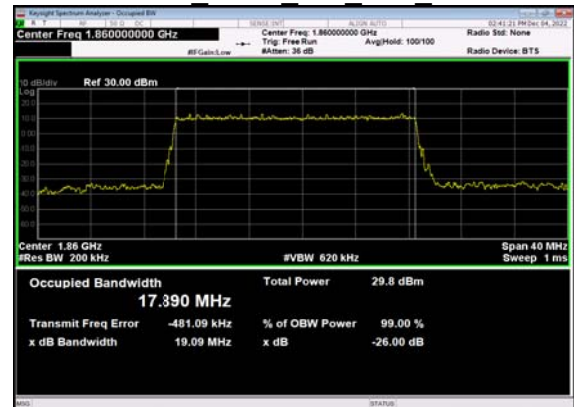
N2(15M)_CP-OFDM_64
QAM Outer Full High CH



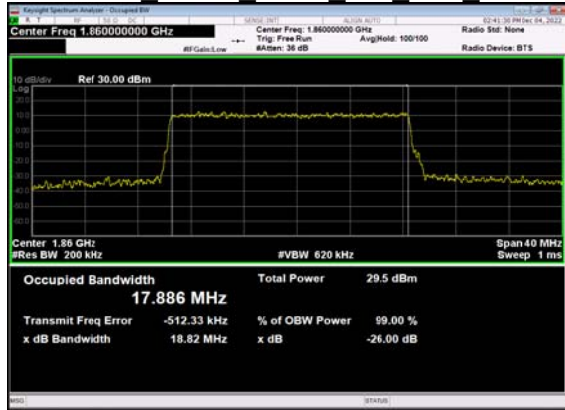
N2(15M)_CP-OFDM_256
QAM Outer Full High CH



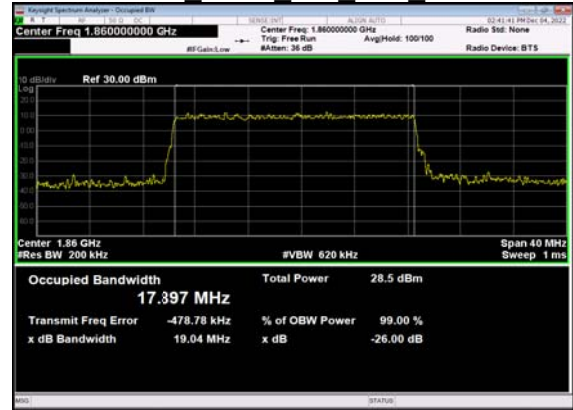
N2(20M)_DFT-s-OFDM_PI_2-
BPSK Outer Full Low CH



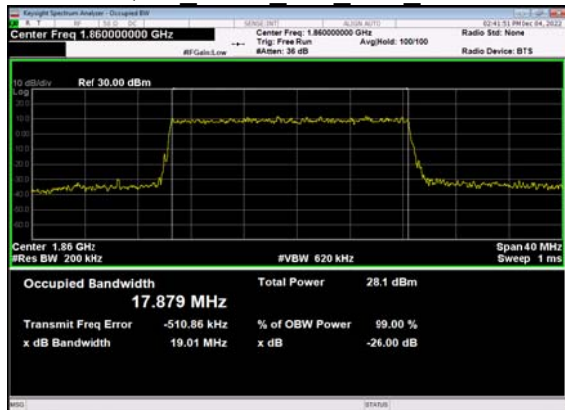
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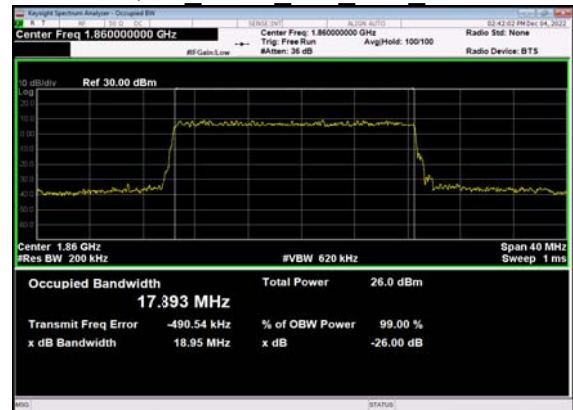
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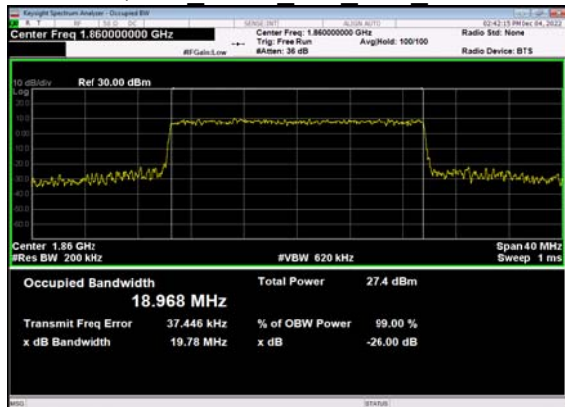
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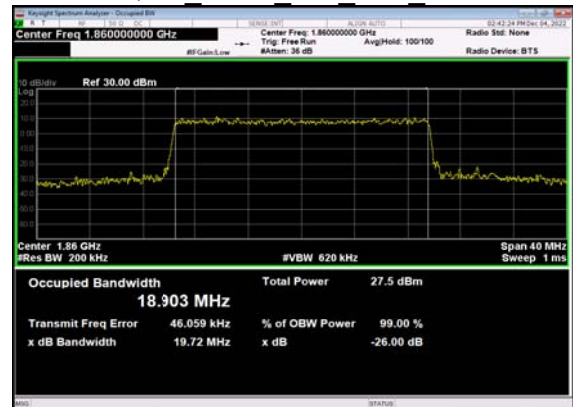
N2(20M)_DFT-s-OFDM_256 QAM Outer Full Low CH



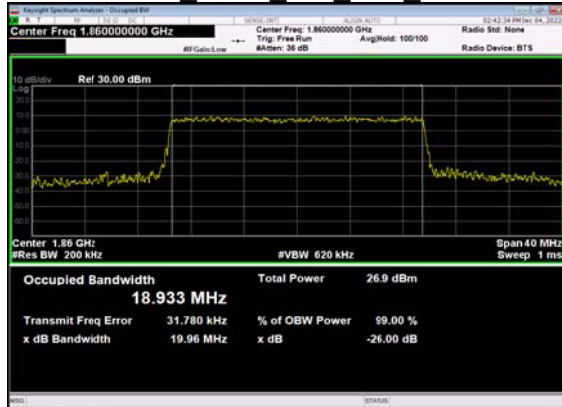
N2(20M)_CP-OFDM QPSK Outer Full Low CH



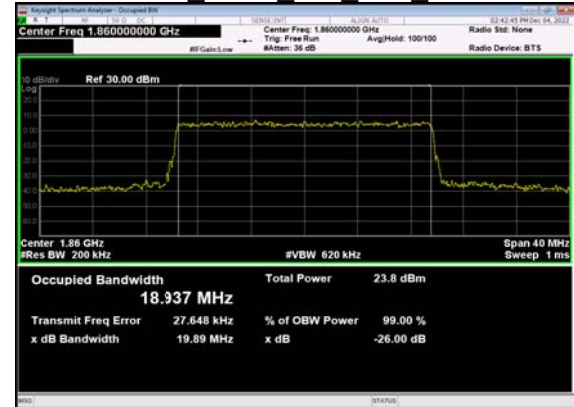
N2(20M)_CP-OFDM_16 QAM Outer Full Low CH



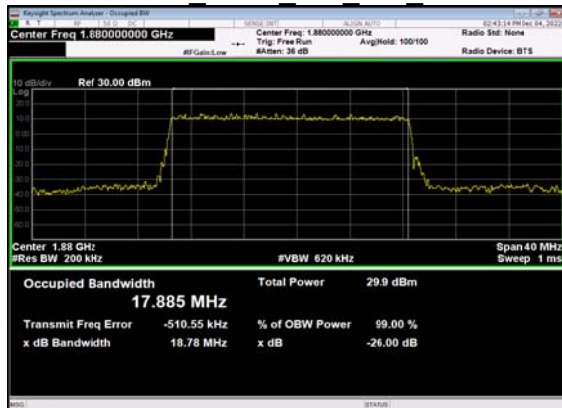
N2(20M)_CP-OFDM_64 QAM Outer Full Low CH



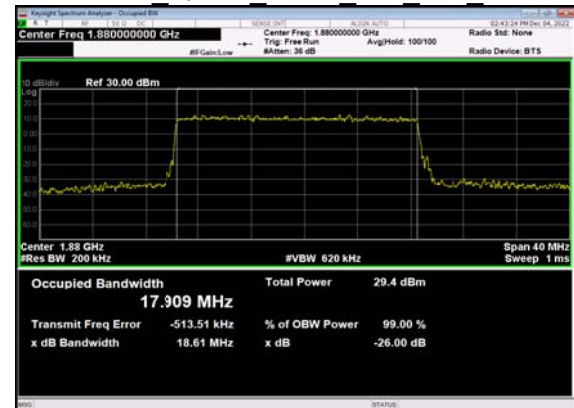
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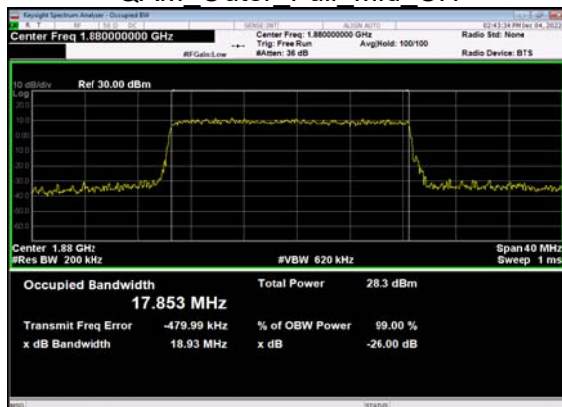
N2(20M)_DFT-s-OFDM_PI_2- BPSK Outer Full Mid CH



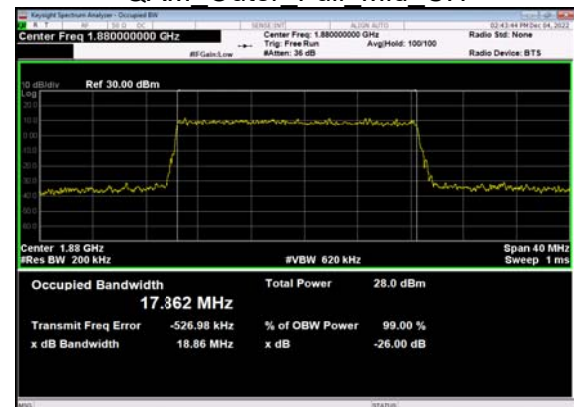
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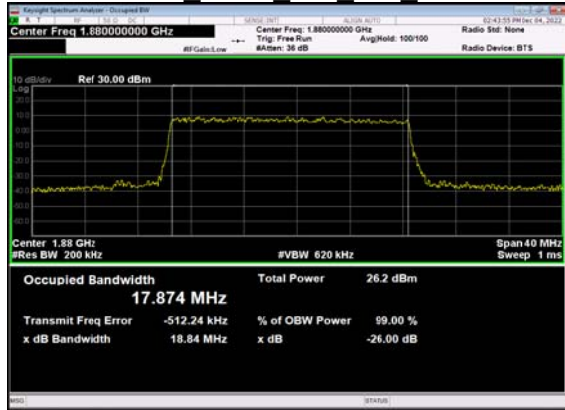
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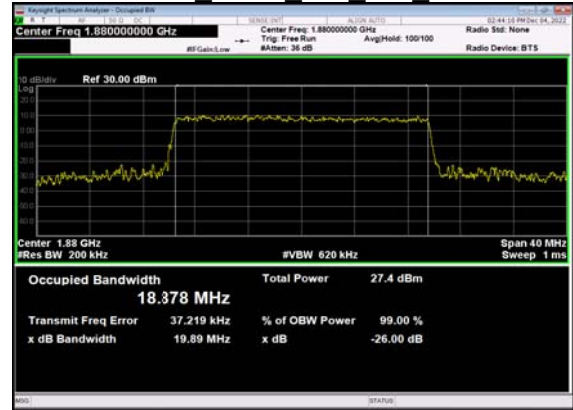
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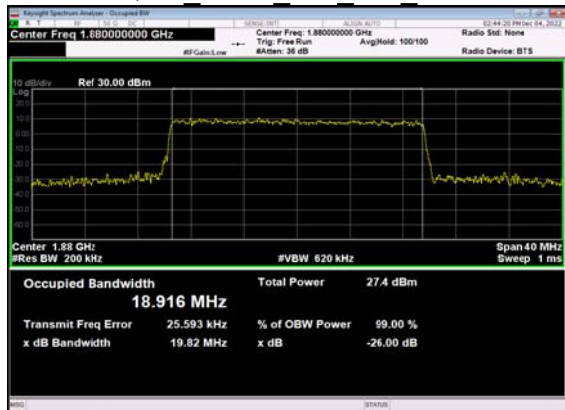
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QAM Outer Full Mid CH



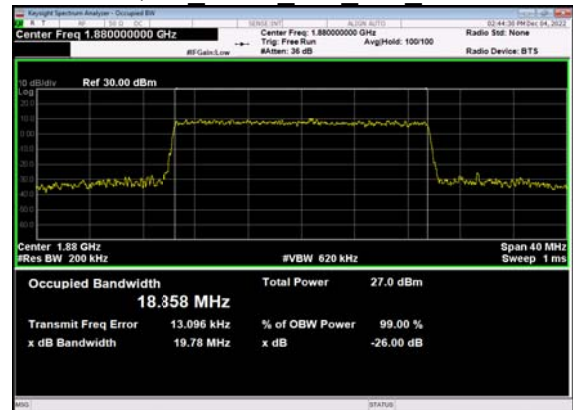
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QPSK Outer Full Mid CH



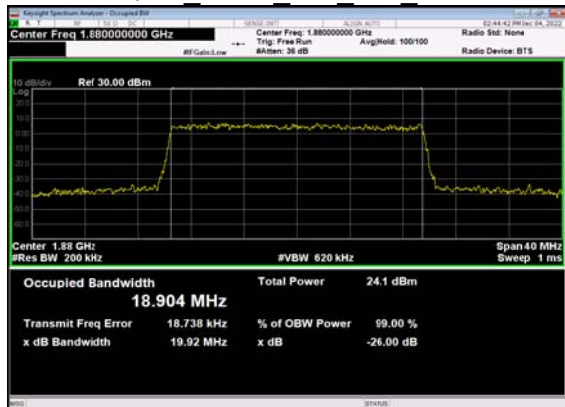
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QAM Outer Full Mid CH



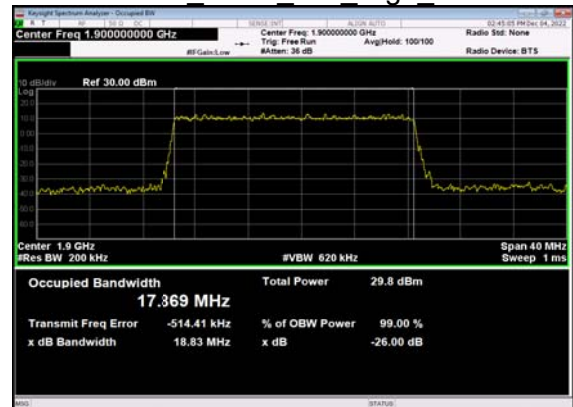
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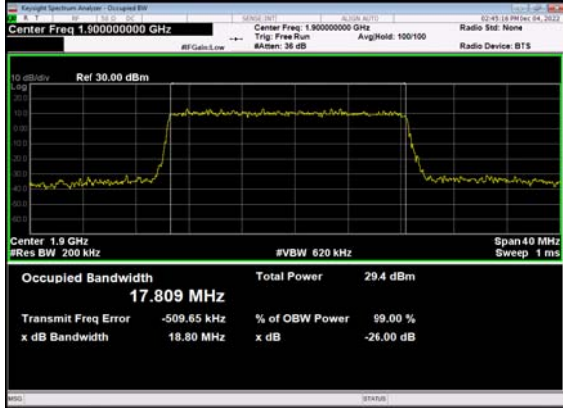
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QAM Outer Full Mid CH



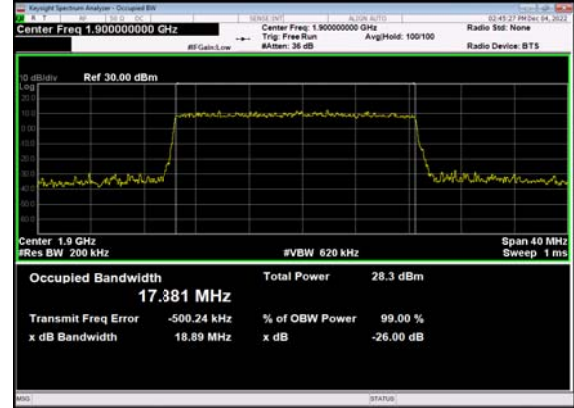
N2(20M)_DFT-s-OFDM_PI_2-
BPSK Outer Full High CH



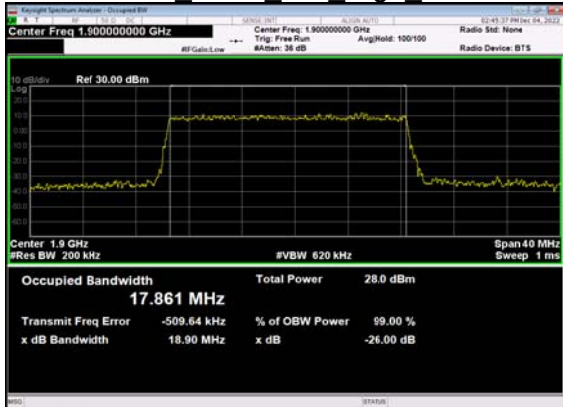
N2(20M)_DFT-s-OFDM QPSK Outer Full High CH



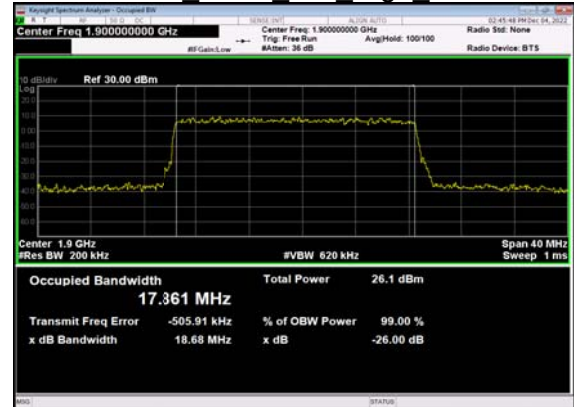
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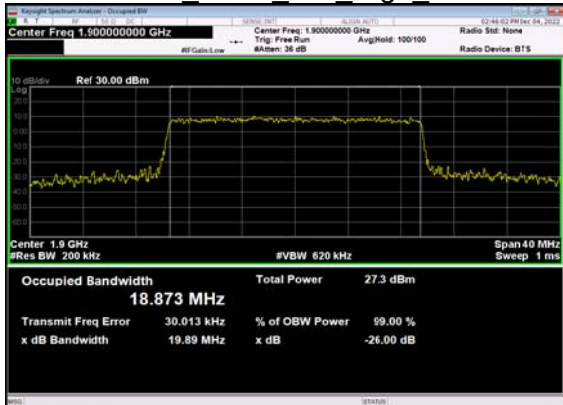
N2(20M)_DFT-s-OFDM_64 QAM Outer Full High CH



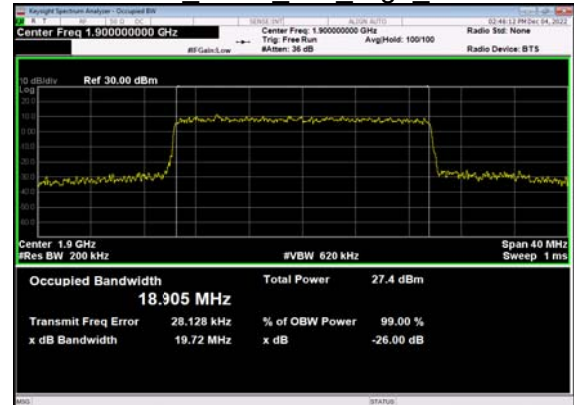
N2(20M)_DFT-s-OFDM_256 QAM Outer Full High CH



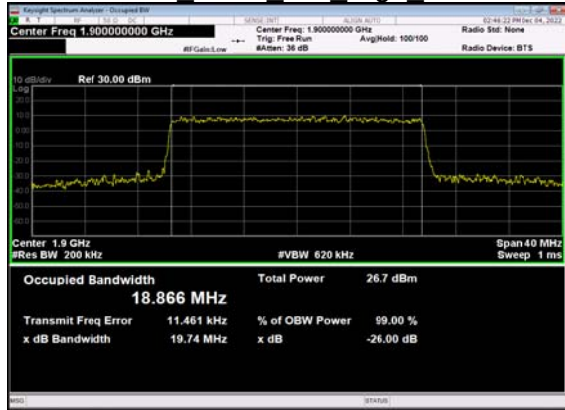
N2(20M)_CP-OFDM QPSK Outer Full High CH



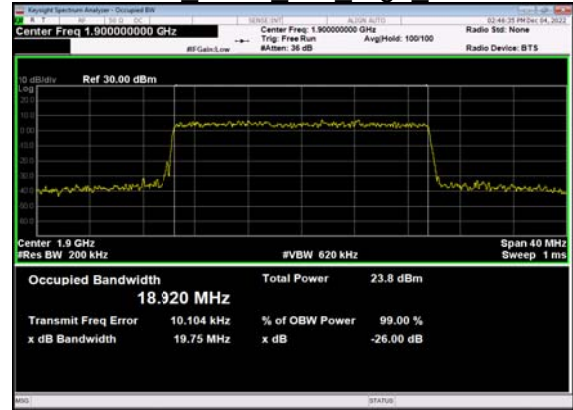
N2(20M)_CP-OFDM_16 QAM Outer Full High CH



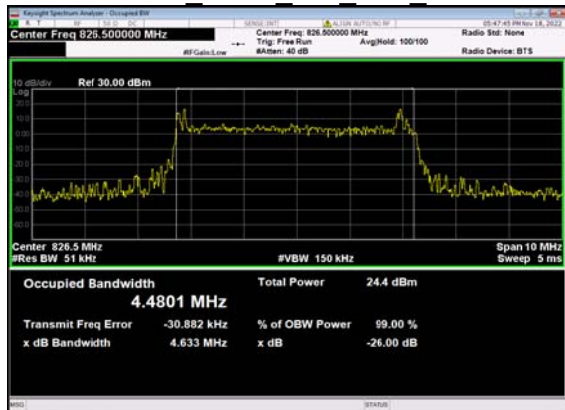
N2(20M)_CP-OFDM_64 QAM Outer Full High CH



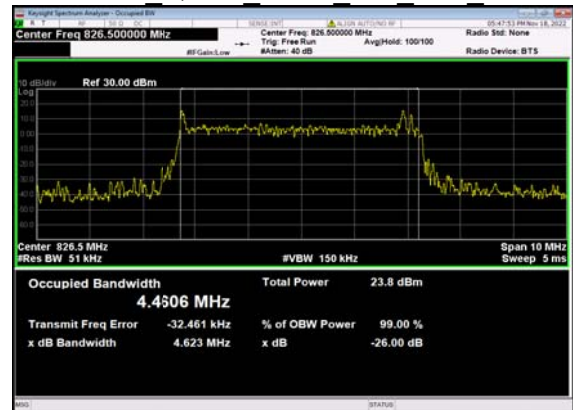
N2(20M)_CP-OFDM_256 QAM Outer Full High CH



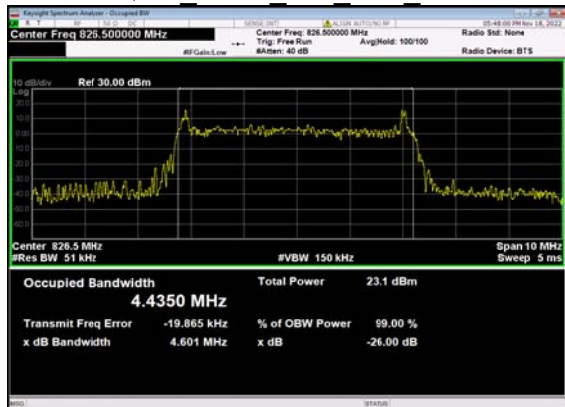
N5(5M)_DFT-s-OFDM_PI_2- BPSK Outer Full Low CH



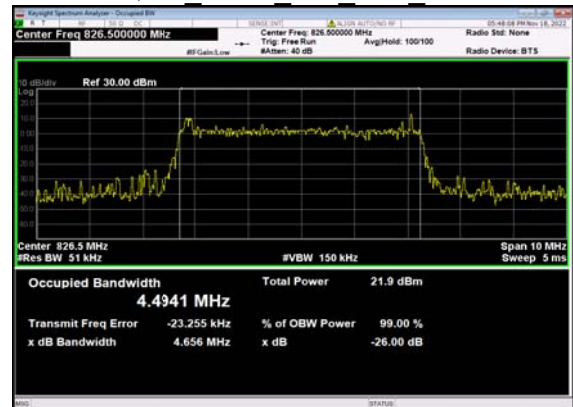
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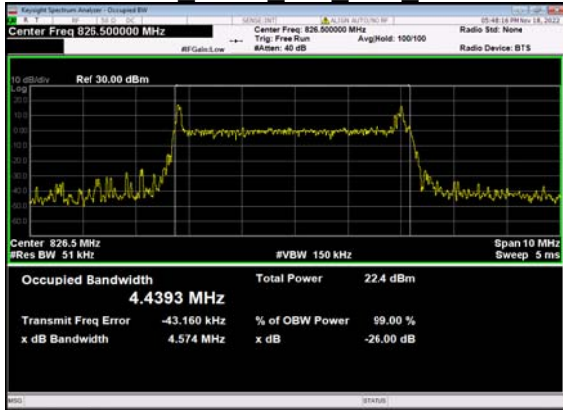
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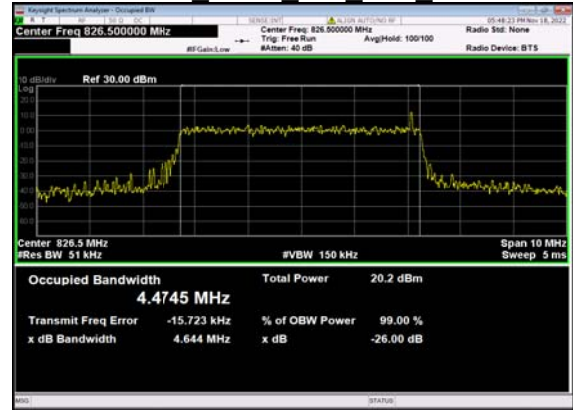
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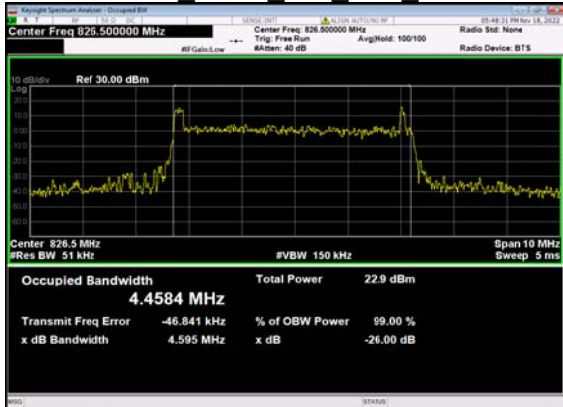
N5(5M)_DFT-s-OFDM_256 QAM Outer Full Low CH



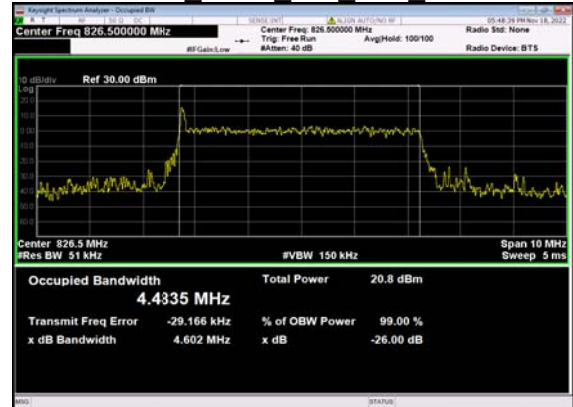
N5(5M)_CP-OFDM_ QPSK Outer Full Low CH



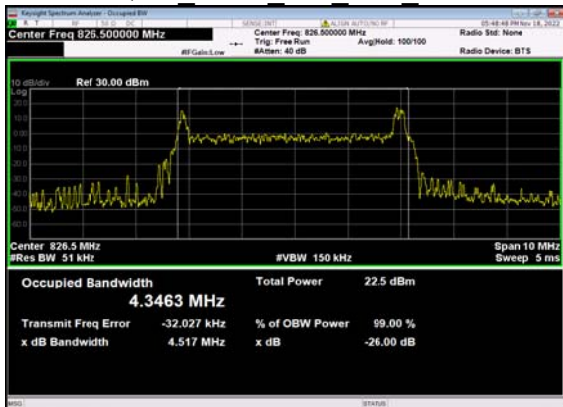
N5(5M)_CP-OFDM_16 QAM Outer Full Low CH



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



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



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

