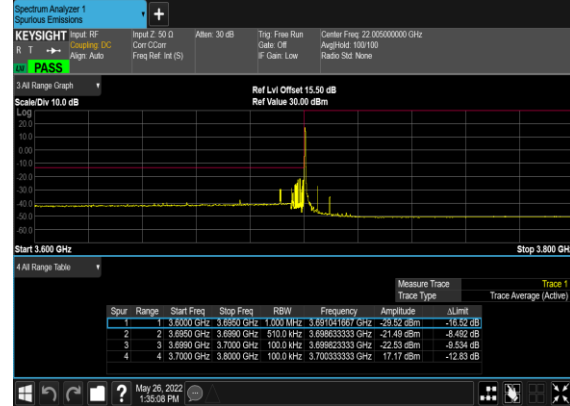


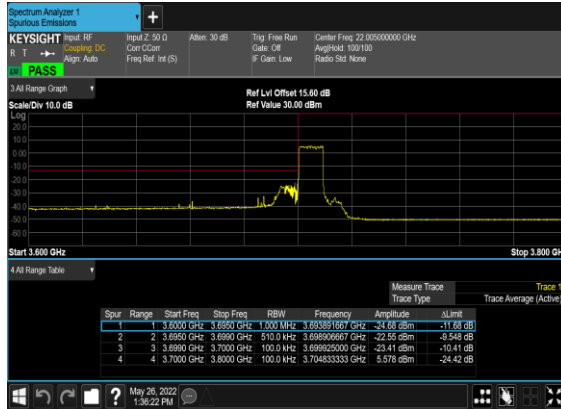
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



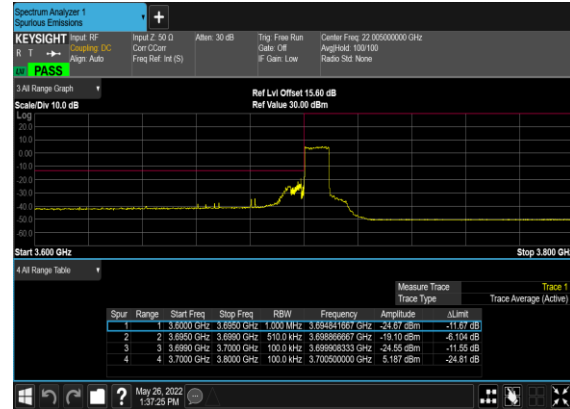
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



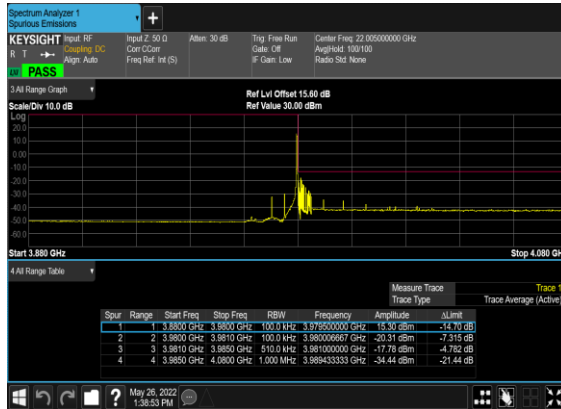
N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



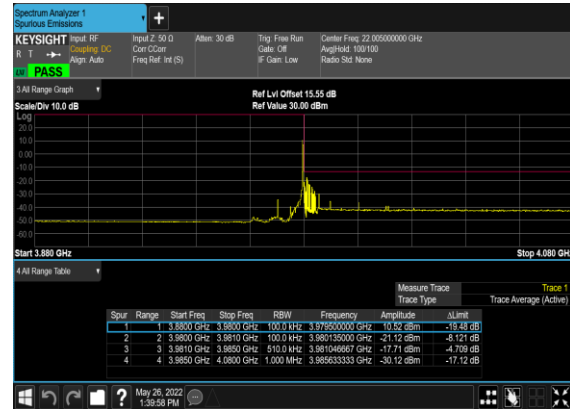
N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



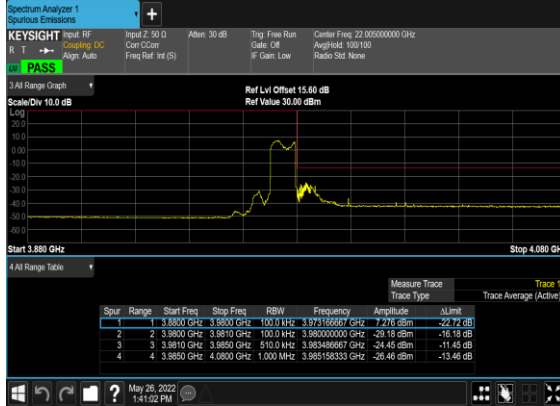
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



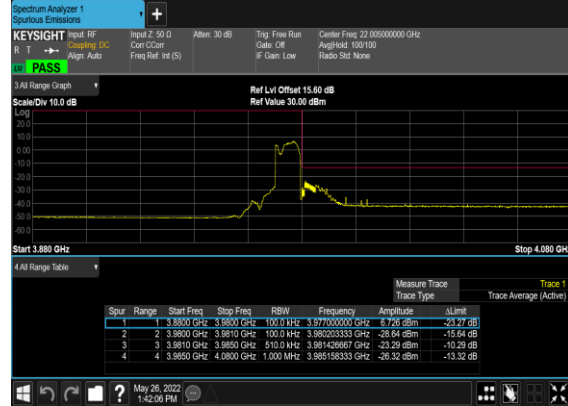
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



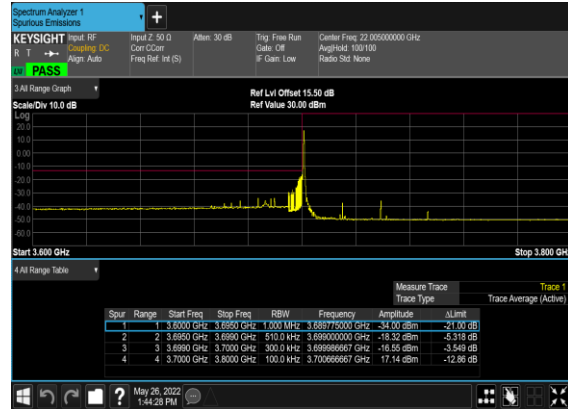
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OFDM_QPSK_Outer_Full_High_CH



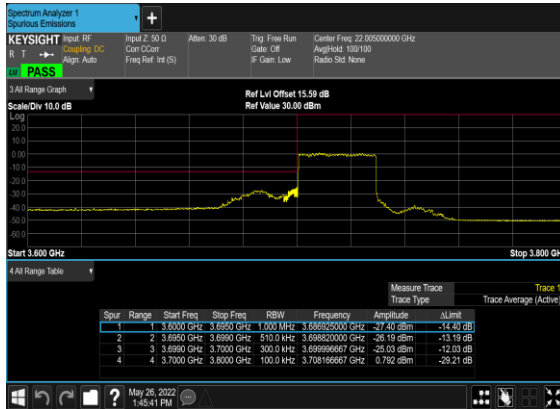
N77(30M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



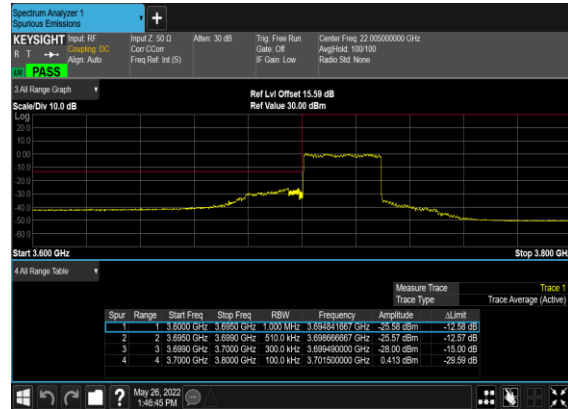
N77(30M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(30M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(30M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input RF
R T → Locking DC
Align Auto

Input Z: 50 Ω
Center Freq: 22.00000000 GHz
Ref Level Offset: 15.54 dB
Ref Value: 30.00 dBm

Scale/Div: 10.0 dB
Log

Start: 3.880 GHz
Stop: 4.080 GHz

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	3.88001 GHz	3.88001 GHz	100.01 Hz	3.979333333 GHz	-16.76 dBm	-15.34 dB
2	2	3.98000 GHz	3.9810 GHz	300.0 MHz	3.980035000 GHz	-14.71 dBm	-1.113 dB
3	3	3.98810 GHz	3.98850 GHz	510.0 MHz	3.981860000 GHz	-23.86 dBm	-10.96 dB
4	4	3.98810 GHz	4.0000 GHz	1.000 MHz	3.993391667 GHz	-35.29 dBm	-22.29 dB

The screenshot displays the Keysight Spectrum Analyzer 1 interface. The top panel shows various input and output settings, including Input 2: 50 dB, Core C-Cent, and Center Freq: 22.000600000 GHz. The main display area shows a spectrum plot with a prominent peak at 3.880 GHz. The bottom panel shows a table of measured traces.

Spor	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	AUnit
1		3.88000 GHz	3.98000 GHz	100.0 kHz	3.979333333 GHz	-16.34 dBm	-14.96 dB
2	1	3.98000 GHz	3.98100 GHz	300.0 MHz	3.980051667 GHz	-16.07 dBm	-2.076 dB
3	3	3.98100 GHz	3.98500 GHz	510.0 MHz	3.981240000 GHz	-22.19 dBm	-8.196 dB
4	3	3.98500 GHz	4.00000 GHz	1.000 MHz	3.999700000 GHz	-32.63 dBm	-19.03 dB

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input: RF
R T → ← Center Freq: 3.880 GHz
Coupling: DC
Align: Auto
3.880 GHz **PASS**

Input Z: 50 Ω
Port Corr: Off
Freq Ref: Int (s)

Att: 30 dB

Trig: Free Run
Gate: Off
IF Gain: Low

Center Freq: 22.00000000 GHz
Res: 100 Hz
Radio Std: None

3.88 GHz Graph

Scale/Div: 10.0 dB

Log

Ref Level Offset: 15.59 dBm
Ref Value: 30.00 dBm

Start: 3.880 GHz

Stop: 4.080 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	PBW	Frequency	Amplitude	Offset
					Trace Type	Measure Trace	Trace Average (Active)
1	1	3.88000 GHz	3.90000 GHz	100.1 MHz	3.952033333 GHz	-27.03 dBm	-27.03 dB
2	2	3.98000 GHz	3.98100 GHz	300.0 MHz	3.980218333 GHz	-24.09 dBm	-11.00 dB
3	3	3.98100 GHz	3.98500 GHz	510.0 MHz	3.981663333 GHz	-25.49 dBm	-12.49 dB
4	4	3.98500 GHz	4.08000 GHz	1.000 MHz	3.992000000 GHz	-23.02 dBm	-16.02 dB

May 26, 2022
1:50:23 PM

Keysight Spectrum Analyzer 1
 Spurious Emissions
 Input 2, 50 dBm
 Cont C
 Center Freq 22.00000000 GHz
 Span 100.00 MHz
 Resolution BW 30.00 dBm

Scale Div: 10.0 dB
 Ref Lvl Offset 15.59 dBm
 Ref Value 30.00 dBm

Start 3.880 GHz
Stop 4.080 GHz

Spur	Range	Start Freq	Stop Freq	PBW	Frequency	Amplitude	ΔLvl
1	1	3.8800 GHz	3.9800 GHz	100.0 kHz	3.979166667 GHz	-1.03 dBm	-27.84 dB
2	2	3.9800 GHz	3.9810 GHz	300.0 MHz	3.980000000 GHz	-24.92 dBm	-11.92 dB
3	3	3.9810 GHz	3.9850 GHz	510.0 kHz	3.981666667 GHz	-26.51 dBm	-15.51 dB
4	4	3.9850 GHz	4.0800 GHz	1.000 MHz	3.986666667 GHz	-27.74 dBm	-14.74 dB

KEYSIGHT Spectrum Analyzer 1
 Input RF: RF
 Corr CCOR: Creating DC
 Align: Auto
 Span: 3.00 GHz
 Center Freq: 22.000000000 GHz
 Arg/Hd: 100/100
 Radio Std: None

Scale/Div 10.0 dB
 Log
 Start 3.600 GHz
 Stop 3.800 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	1	3.6000 GHz	3.6950 GHz	100.0 MHz	3.698933333 GHz	-22.89 dBm	-20.18 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 MHz	3.698960000 GHz	-22.89 dBm	-9.982 dB
3	3	3.6990 GHz	3.7000 GHz	360.0 MHz	3.699956667 GHz	-15.89 dBm	-2.891 dB
4	4	3.7000 GHz	3.8000 GHz	100.0 MHz	3.700833333 GHz	17.07 dBm	-12.13 dB

KEYSIGHT Input RF
R T → **Coupling DC**
Align: Auto
Low PASS

Input 2: 50.0 GHz
Cen C/Ref
Freq Ref: Int (S)

Att: 30.0 dB
Trig: Free Run
Off: Gain Low

Center Freq: 22.00000000 GHz
AverHdd: 100/10
Radio Std: None

3 All Range Graph
Scale/Div: 10.0 dB
Ref Lvl Offset: 15.57 dB
Ref Value: 30.00 dBm

Start: 3.600 GHz
Stop: 3.800 GHz

4 All Range Table

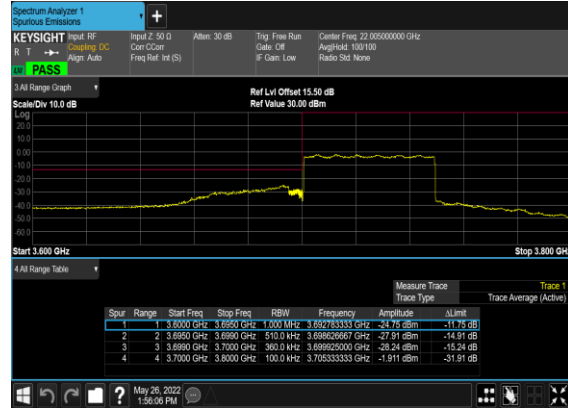
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	3	3.6900 GHz	3.6950 GHz	1.000 MHz	3.689860000 GHz	-29.55 dBm	-13.94 dB
2	2	3.6950 GHz	3.6990 GHz	510.0 kHz	3.689860000 GHz	-29.91 dBm	-10.91 dB
3	3	3.6990 GHz	3.7000 GHz	360.0 kHz	3.699850000 GHz	-16.59 dBm	-3.99 dB
4	4	3.7000 GHz	3.8000 GHz	100.0 kHz	3.700833333 GHz	-16.79 dBm	-13.21 dB

Measure Trace 1
Trace Type
Trace Average (Active)

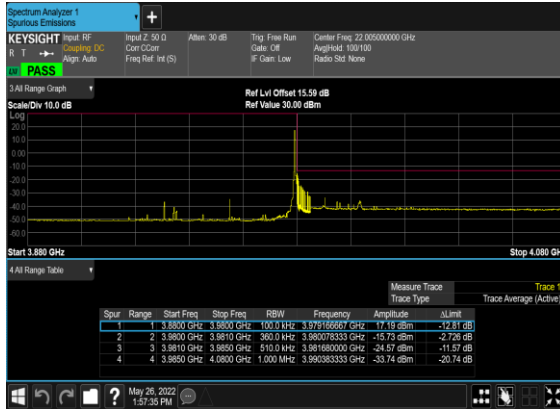
N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



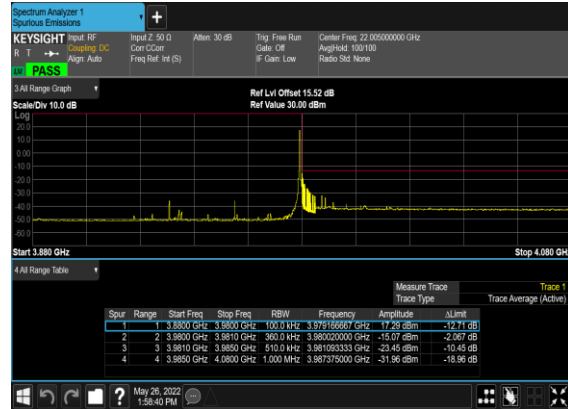
N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



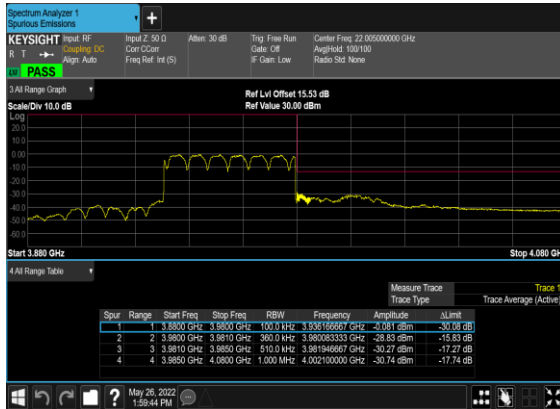
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



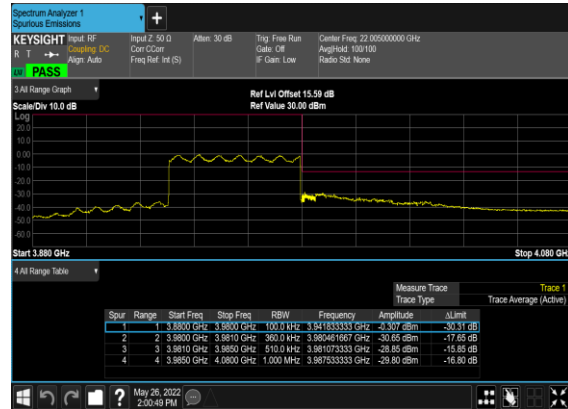
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N77(50M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH



FR1 N77 SCS 30kHz (ANT3)

Conducted Power and EIRP (ANT gain=-6.3dBi)

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power (dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	12@6	25.66	19.36	0.0863
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@1	25.56	19.26	0.0843
77	30	10	647000	3705	DFT-s-OFDM PI/2 BPSK	1@22	25.48	19.18	0.0828
77	30	10	647000	3705	DFT-s-OFDM QPSK	12@6	25.55	19.25	0.0841
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.48	19.18	0.0828
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	25.44	19.14	0.0820
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	24.56	18.26	0.0670
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	24.53	18.23	0.0665
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	24.36	18.06	0.0640
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	12@6	23.01	16.71	0.0469
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@1	23.19	16.89	0.0489
77	30	10	647000	3705	DFT-s-OFDM 64 QAM	1@22	22.95	16.65	0.0462
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	12@6	21.16	14.86	0.0306
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@1	21.1	14.8	0.0302
77	30	10	647000	3705	DFT-s-OFDM 256 QAM	1@22	21	14.7	0.0295
77	30	10	647000	3705	CP-OFDM QPSK	12@6	24.17	17.87	0.0612
77	30	10	647000	3705	CP-OFDM QPSK	1@1	24.16	17.86	0.0611
77	30	10	647000	3705	CP-OFDM QPSK	1@22	23.86	17.56	0.0570
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	12@6	25.48	19.18	0.0828
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.35	19.05	0.0804
77	30	10	656000	3840	DFT-s-OFDM PI/2 BPSK	1@22	25.31	19.01	0.0796
77	30	10	656000	3840	DFT-s-OFDM QPSK	12@6	25.4	19.1	0.0813
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	25.35	19.05	0.0804
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@22	25.24	18.94	0.0783
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	12@6	24.41	18.11	0.0647
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.45	18.15	0.0653
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@22	24.26	17.96	0.0625
77	30	10	656000	3840	DFT-s-OFDM	12@6	22.87	16.57	0.0454

					64 QAM				
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.9	16.6	0.0457
77	30	10	656000	3840	DFT-s-OFDM 64 QAM	1@22	22.93	16.63	0.0460
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	12@6	20.97	14.67	0.0293
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.73	14.43	0.0277
77	30	10	656000	3840	DFT-s-OFDM 256 QAM	1@22	20.72	14.42	0.0277
77	30	10	656000	3840	CP-OFDM QPSK	12@6	23.84	17.54	0.0568
77	30	10	656000	3840	CP-OFDM QPSK	1@1	23.83	17.53	0.0566
77	30	10	656000	3840	CP-OFDM QPSK	1@22	23.69	17.39	0.0548
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	12@6	25.92	19.62	0.0916
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@1	25.84	19.54	0.0899
77	30	10	665000	3975	DFT-s-OFDM PI/2 BPSK	1@22	25.76	19.46	0.0883
77	30	10	665000	3975	DFT-s-OFDM QPSK	12@6	25.85	19.55	0.0902
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	25.78	19.48	0.0887
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@22	25.72	19.42	0.0875
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	12@6	24.81	18.51	0.0710
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.88	18.58	0.0721
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@22	24.94	18.64	0.0731
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	12@6	23.34	17.04	0.0506
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	1@1	23.44	17.14	0.0518
77	30	10	665000	3975	DFT-s-OFDM 64 QAM	1@22	23.45	17.15	0.0519
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	12@6	21.41	15.11	0.0324
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	1@1	20.91	14.61	0.0289
77	30	10	665000	3975	DFT-s-OFDM 256 QAM	1@22	21.21	14.91	0.0310
77	30	10	665000	3975	CP-OFDM QPSK	12@6	24.31	18.01	0.0632
77	30	10	665000	3975	CP-OFDM QPSK	1@1	24.21	17.91	0.0618
77	30	10	665000	3975	CP-OFDM QPSK	1@22	24.18	17.88	0.0614
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	18@9	25.64	19.34	0.0859
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@1	25.55	19.25	0.0841
77	30	15	647168	3707.52	DFT-s-OFDM PI/2 BPSK	1@36	25.5	19.2	0.0832
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	25.62	19.32	0.0855
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.5	19.2	0.0832
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	25.46	19.16	0.0824
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	24.55	18.25	0.0668

77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	24.44	18.14	0.0652
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	24.49	18.19	0.0659
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	18@9	23.13	16.83	0.0482
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@1	23.18	16.88	0.0488
77	30	15	647168	3707.52	DFT-s-OFDM 64 QAM	1@36	23.19	16.89	0.0489
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	18@9	21.09	14.79	0.0301
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@1	20.9	14.6	0.0288
77	30	15	647168	3707.52	DFT-s-OFDM 256 QAM	1@36	20.88	14.58	0.0287
77	30	15	647168	3707.52	CP-OFDM QPSK	19@9	24.08	17.78	0.0600
77	30	15	647168	3707.52	CP-OFDM QPSK	1@1	23.88	17.58	0.0573
77	30	15	647168	3707.52	CP-OFDM QPSK	1@36	23.89	17.59	0.0574
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	18@9	25.45	19.15	0.0822
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.39	19.09	0.0811
77	30	15	656000	3840	DFT-s-OFDM PI/2 BPSK	1@36	25.3	19	0.0794
77	30	15	656000	3840	DFT-s-OFDM QPSK	18@9	25.4	19.1	0.0813
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	25.31	19.01	0.0796
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@36	25.31	19.01	0.0796
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	18@9	24.34	18.04	0.0637
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.45	18.15	0.0653
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@36	24.37	18.07	0.0641
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	18@9	23.05	16.75	0.0473
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.04	16.74	0.0472
77	30	15	656000	3840	DFT-s-OFDM 64 QAM	1@36	22.94	16.64	0.0461
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	18@9	20.94	14.64	0.0291
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.79	14.49	0.0281
77	30	15	656000	3840	DFT-s-OFDM 256 QAM	1@36	20.55	14.25	0.0266
77	30	15	656000	3840	CP-OFDM QPSK	19@9	23.89	17.59	0.0574
77	30	15	656000	3840	CP-OFDM QPSK	1@1	23.95	17.65	0.0582
77	30	15	656000	3840	CP-OFDM QPSK	1@36	23.66	17.36	0.0545
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	18@9	25.86	19.56	0.0904
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@1	25.77	19.47	0.0885
77	30	15	664832	3972.48	DFT-s-OFDM PI/2 BPSK	1@36	25.7	19.4	0.0871
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	18@9	25.8	19.5	0.0891
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	25.66	19.36	0.0863

77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@36	25.68	19.38	0.0867
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	18@9	24.67	18.37	0.0687
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	24.76	18.46	0.0701
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@36	24.81	18.51	0.0710
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	18@9	23.32	17.02	0.0504
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	1@1	23.13	16.83	0.0482
77	30	15	664832	3972.48	DFT-s-OFDM 64 QAM	1@36	23.17	16.87	0.0486
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	18@9	21.26	14.96	0.0313
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	1@1	21.12	14.82	0.0303
77	30	15	664832	3972.48	DFT-s-OFDM 256 QAM	1@36	21.15	14.85	0.0305
77	30	15	664832	3972.48	CP-OFDM QPSK	19@9	24.31	18.01	0.0632
77	30	15	664832	3972.48	CP-OFDM QPSK	1@1	24.18	17.88	0.0614
77	30	15	664832	3972.48	CP-OFDM QPSK	1@36	24.05	17.75	0.0596
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	25@12	25.63	19.33	0.0857
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@1	25.55	19.25	0.0841
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@49	25.51	19.21	0.0834
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	25.56	19.26	0.0843
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.52	19.22	0.0836
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	25.49	19.19	0.0830
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	24.56	18.26	0.0670
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	24.44	18.14	0.0652
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.51	18.21	0.0662
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	25@12	23.08	16.78	0.0476
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@1	23.08	16.78	0.0476
77	30	20	647334	3710.01	DFT-s-OFDM 64 QAM	1@49	23.17	16.87	0.0486
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	25@12	21.16	14.86	0.0306
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@1	21.1	14.8	0.0302
77	30	20	647334	3710.01	DFT-s-OFDM 256 QAM	1@49	21.02	14.72	0.0296
77	30	20	647334	3710.01	CP-OFDM QPSK	25@12	24.06	17.76	0.0597
77	30	20	647334	3710.01	CP-OFDM QPSK	1@1	24.04	17.74	0.0594
77	30	20	647334	3710.01	CP-OFDM QPSK	1@49	23.87	17.57	0.0571
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	25@12	25.45	19.15	0.0822
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.38	19.08	0.0809
77	30	20	656000	3840	DFT-s-OFDM PI/2 BPSK	1@49	25.29	18.99	0.0793

77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	25.4	19.1	0.0813
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.36	19.06	0.0805
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	25.27	18.97	0.0789
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.36	18.06	0.0640
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.48	18.18	0.0658
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	24.32	18.02	0.0634
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	25@12	22.9	16.6	0.0457
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.05	16.75	0.0473
77	30	20	656000	3840	DFT-s-OFDM 64 QAM	1@49	22.93	16.63	0.0460
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	25@12	20.91	14.61	0.0289
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.87	14.57	0.0286
77	30	20	656000	3840	DFT-s-OFDM 256 QAM	1@49	20.75	14.45	0.0279
77	30	20	656000	3840	CP-OFDM QPSK	25@12	23.93	17.63	0.0579
77	30	20	656000	3840	CP-OFDM QPSK	1@1	23.79	17.49	0.0561
77	30	20	656000	3840	CP-OFDM QPSK	1@49	23.74	17.44	0.0555
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	25@12	25.85	19.55	0.0902
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@1	25.71	19.41	0.0873
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@49	25.72	19.42	0.0875
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	25.8	19.5	0.0891
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.66	19.36	0.0863
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	25.7	19.4	0.0871
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	24.72	18.42	0.0695
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	24.78	18.48	0.0705
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	24.84	18.54	0.0714
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	25@12	23.36	17.06	0.0508
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@1	23.38	17.08	0.0511
77	30	20	664666	3969.99	DFT-s-OFDM 64 QAM	1@49	23.5	17.2	0.0525
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	25@12	21.28	14.98	0.0315
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@1	21.13	14.83	0.0304
77	30	20	664666	3969.99	DFT-s-OFDM 256 QAM	1@49	21.32	15.02	0.0318
77	30	20	664666	3969.99	CP-OFDM QPSK	25@12	24.34	18.04	0.0637
77	30	20	664666	3969.99	CP-OFDM QPSK	1@1	24.13	17.83	0.0607
77	30	20	664666	3969.99	CP-OFDM QPSK	1@49	24.23	17.93	0.0621
77	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	32@16	25.57	19.27	0.0845

77	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@1	25.53	19.23	0.0838
77	30	25	647500	3712.5	DFT-s-OFDM PI/2 BPSK	1@63	25.48	19.18	0.0828
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	32@16	25.53	19.23	0.0838
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	25.56	19.26	0.0843
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@63	25.44	19.14	0.0820
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	32@16	24.47	18.17	0.0656
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	24.46	18.16	0.0655
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@63	24.47	18.17	0.0656
77	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	32@16	22.94	16.64	0.0461
77	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@1	23.33	17.03	0.0505
77	30	25	647500	3712.5	DFT-s-OFDM 64 QAM	1@63	23.23	16.93	0.0493
77	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	32@16	21.14	14.84	0.0305
77	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@1	21.29	14.99	0.0316
77	30	25	647500	3712.5	DFT-s-OFDM 256 QAM	1@63	20.96	14.66	0.0292
77	30	25	647500	3712.5	CP-OFDM QPSK	33@16	23.98	17.68	0.0586
77	30	25	647500	3712.5	CP-OFDM QPSK	1@1	24.17	17.87	0.0612
77	30	25	647500	3712.5	CP-OFDM QPSK	1@63	24.13	17.83	0.0607
77	30	25	656000	3840	DFT-s-OFDM PI/2 BPSK	32@16	25.47	19.17	0.0826
77	30	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.51	19.21	0.0834
77	30	25	656000	3840	DFT-s-OFDM PI/2 BPSK	1@63	25.3	19	0.0794
77	30	25	656000	3840	DFT-s-OFDM QPSK	32@16	25.42	19.12	0.0817
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@1	25.38	19.08	0.0809
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@63	25.31	19.01	0.0796
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	32@16	24.35	18.05	0.0638
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.59	18.29	0.0675
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@63	24.49	18.19	0.0659
77	30	25	656000	3840	DFT-s-OFDM 64 QAM	32@16	22.94	16.64	0.0461
77	30	25	656000	3840	DFT-s-OFDM 64 QAM	1@1	22.92	16.62	0.0459
77	30	25	656000	3840	DFT-s-OFDM 64 QAM	1@63	22.99	16.69	0.0467
77	30	25	656000	3840	DFT-s-OFDM 256 QAM	32@16	21.07	14.77	0.0300
77	30	25	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.87	14.57	0.0286
77	30	25	656000	3840	DFT-s-OFDM 256 QAM	1@63	20.59	14.29	0.0269
77	30	25	656000	3840	CP-OFDM QPSK	33@16	23.89	17.59	0.0574
77	30	25	656000	3840	CP-OFDM QPSK	1@1	24.05	17.75	0.0596

77	30	25	656000	3840	CP-OFDM QPSK	1@63	23.95	17.65	0.0582
77	30	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	32@16	25.74	19.44	0.0879
77	30	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@1	25.72	19.42	0.0875
77	30	25	664500	3967.5	DFT-s-OFDM PI/2 BPSK	1@63	25.72	19.42	0.0875
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	32@16	25.76	19.46	0.0883
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@1	25.67	19.37	0.0865
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@63	25.66	19.36	0.0863
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	32@16	24.72	18.42	0.0695
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@1	24.8	18.5	0.0708
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@63	24.88	18.58	0.0721
77	30	25	664500	3967.5	DFT-s-OFDM 64 QAM	32@16	23.25	16.95	0.0495
77	30	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@1	23.4	17.1	0.0513
77	30	25	664500	3967.5	DFT-s-OFDM 64 QAM	1@63	23.59	17.29	0.0536
77	30	25	664500	3967.5	DFT-s-OFDM 256 QAM	32@16	21.34	15.04	0.0319
77	30	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@1	21.13	14.83	0.0304
77	30	25	664500	3967.5	DFT-s-OFDM 256 QAM	1@63	21.38	15.08	0.0322
77	30	25	664500	3967.5	CP-OFDM QPSK	33@16	24.14	17.84	0.0608
77	30	25	664500	3967.5	CP-OFDM QPSK	1@1	24.26	17.96	0.0625
77	30	25	664500	3967.5	CP-OFDM QPSK	1@63	24.32	18.02	0.0634
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	36@18	25.62	19.32	0.0855
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@1	25.57	19.27	0.0845
77	30	30	647668	3715.02	DFT-s-OFDM PI/2 BPSK	1@76	25.5	19.2	0.0832
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	25.57	19.27	0.0845
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	25.52	19.22	0.0836
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	25.49	19.19	0.0830
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	24.57	18.27	0.0671
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	24.54	18.24	0.0667
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.64	18.34	0.0682
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	36@18	23.05	16.75	0.0473
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@1	23.22	16.92	0.0492
77	30	30	647668	3715.02	DFT-s-OFDM 64 QAM	1@76	23.24	16.94	0.0494
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	36@18	21.18	14.88	0.0308
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@1	21.2	14.9	0.0309
77	30	30	647668	3715.02	DFT-s-OFDM 256 QAM	1@76	21.33	15.03	0.0318

77	30	30	647668	3715.02	CP-OFDM QPSK	39@19	24.06	17.76	0.0597
77	30	30	647668	3715.02	CP-OFDM QPSK	1@1	24.07	17.77	0.0598
77	30	30	647668	3715.02	CP-OFDM QPSK	1@76	23.96	17.66	0.0583
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	36@18	25.54	19.24	0.0839
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.51	19.21	0.0834
77	30	30	656000	3840	DFT-s-OFDM PI/2 BPSK	1@76	25.35	19.05	0.0804
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	25.46	19.16	0.0824
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	25.53	19.23	0.0838
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	25.4	19.1	0.0813
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.4	18.1	0.0646
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.61	18.31	0.0678
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	24.33	18.03	0.0635
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	36@18	23.04	16.74	0.0472
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.18	16.88	0.0488
77	30	30	656000	3840	DFT-s-OFDM 64 QAM	1@76	23.04	16.74	0.0472
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	36@18	21.02	14.72	0.0296
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@1	20.66	14.36	0.0273
77	30	30	656000	3840	DFT-s-OFDM 256 QAM	1@76	20.92	14.62	0.0290
77	30	30	656000	3840	CP-OFDM QPSK	39@19	23.92	17.62	0.0578
77	30	30	656000	3840	CP-OFDM QPSK	1@1	24.07	17.77	0.0598
77	30	30	656000	3840	CP-OFDM QPSK	1@76	23.88	17.58	0.0573
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	36@18	25.74	19.44	0.0879
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@1	25.66	19.36	0.0863
77	30	30	664332	3964.98	DFT-s-OFDM PI/2 BPSK	1@76	25.66	19.36	0.0863
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	25.65	19.35	0.0861
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	25.62	19.32	0.0855
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	25.63	19.33	0.0857
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	24.62	18.32	0.0679
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	24.77	18.47	0.0703
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	24.74	18.44	0.0698
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	36@18	23.16	16.86	0.0485
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@1	23.38	17.08	0.0511
77	30	30	664332	3964.98	DFT-s-OFDM 64 QAM	1@76	23.44	17.14	0.0518
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	36@18	21.31	15.01	0.0317

77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@1	21.17	14.87	0.0307
77	30	30	664332	3964.98	DFT-s-OFDM 256 QAM	1@76	21.2	14.9	0.0309
77	30	30	664332	3964.98	CP-OFDM QPSK	39@19	24.15	17.85	0.0610
77	30	30	664332	3964.98	CP-OFDM QPSK	1@1	24.2	17.9	0.0617
77	30	30	664332	3964.98	CP-OFDM QPSK	1@76	24.02	17.72	0.0592
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	50@25	25.6	19.3	0.0851
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@1	25.54	19.24	0.0839
77	30	40	648000	3720	DFT-s-OFDM PI/2 BPSK	1@104	25.56	19.26	0.0843
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.55	19.25	0.0841
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	25.51	19.21	0.0834
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.55	19.25	0.0841
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	24.48	18.18	0.0658
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	24.55	18.25	0.0668
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.58	18.28	0.0673
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	50@25	23.07	16.77	0.0475
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@1	23.18	16.88	0.0488
77	30	40	648000	3720	DFT-s-OFDM 64 QAM	1@104	23.39	17.09	0.0512
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	50@25	21.11	14.81	0.0303
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@1	20.91	14.61	0.0289
77	30	40	648000	3720	DFT-s-OFDM 256 QAM	1@104	21.19	14.89	0.0308
77	30	40	648000	3720	CP-OFDM QPSK	53@26	24.01	17.71	0.0590
77	30	40	648000	3720	CP-OFDM QPSK	1@1	24.05	17.75	0.0596
77	30	40	648000	3720	CP-OFDM QPSK	1@104	24.04	17.74	0.0594
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	50@25	25.52	19.22	0.0836
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.56	19.26	0.0843
77	30	40	656000	3840	DFT-s-OFDM PI/2 BPSK	1@104	25.41	19.11	0.0815
77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	25.44	19.14	0.0820
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.59	19.29	0.0849
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	25.42	19.12	0.0817
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.39	18.09	0.0644
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.65	18.35	0.0684
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.53	18.23	0.0665
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	50@25	22.98	16.68	0.0466
77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.23	16.93	0.0493

77	30	40	656000	3840	DFT-s-OFDM 64 QAM	1@104	23.19	16.89	0.0489
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	50@25	21.02	14.72	0.0296
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.18	14.88	0.0308
77	30	40	656000	3840	DFT-s-OFDM 256 QAM	1@104	20.88	14.58	0.0287
77	30	40	656000	3840	CP-OFDM QPSK	53@26	23.92	17.62	0.0578
77	30	40	656000	3840	CP-OFDM QPSK	1@1	23.97	17.67	0.0585
77	30	40	656000	3840	CP-OFDM QPSK	1@104	23.95	17.65	0.0582
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	50@25	25.8	19.5	0.0891
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@1	25.72	19.42	0.0875
77	30	40	664000	3960	DFT-s-OFDM PI/2 BPSK	1@104	25.74	19.44	0.0879
77	30	40	664000	3960	DFT-s-OFDM QPSK	50@25	25.75	19.45	0.0881
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	25.72	19.42	0.0875
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@104	25.74	19.44	0.0879
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	50@25	24.7	18.4	0.0692
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.73	18.43	0.0697
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@104	24.86	18.56	0.0718
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	50@25	23.26	16.96	0.0497
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	1@1	23.36	17.06	0.0508
77	30	40	664000	3960	DFT-s-OFDM 64 QAM	1@104	23.52	17.22	0.0527
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	50@25	21.34	15.04	0.0319
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	1@1	21.24	14.94	0.0312
77	30	40	664000	3960	DFT-s-OFDM 256 QAM	1@104	21.21	14.91	0.0310
77	30	40	664000	3960	CP-OFDM QPSK	53@26	24.24	17.94	0.0622
77	30	40	664000	3960	CP-OFDM QPSK	1@1	24.09	17.79	0.0601
77	30	40	664000	3960	CP-OFDM QPSK	1@104	24.36	18.06	0.0640
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	64@32	25.63	19.33	0.0857
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@1	25.6	19.3	0.0851
77	30	50	648334	3725.01	DFT-s-OFDM PI/2 BPSK	1@131	25.63	19.33	0.0857
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	25.57	19.27	0.0845
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	25.51	19.21	0.0834
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	25.61	19.31	0.0853
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	24.57	18.27	0.0671
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	24.67	18.37	0.0687
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.71	18.41	0.0693

77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	64@32	23.1	16.8	0.0479
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@1	23.23	16.93	0.0493
77	30	50	648334	3725.01	DFT-s-OFDM 64 QAM	1@131	23.49	17.19	0.0524
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	64@32	21.11	14.81	0.0303
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@1	21.27	14.97	0.0314
77	30	50	648334	3725.01	DFT-s-OFDM 256 QAM	1@131	21.13	14.83	0.0304
77	30	50	648334	3725.01	CP-OFDM QPSK	67@33	24.07	17.77	0.0598
77	30	50	648334	3725.01	CP-OFDM QPSK	1@1	23.96	17.66	0.0583
77	30	50	648334	3725.01	CP-OFDM QPSK	1@131	24.07	17.77	0.0598
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	64@32	25.53	19.23	0.0838
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.6	19.3	0.0851
77	30	50	656000	3840	DFT-s-OFDM PI/2 BPSK	1@131	25.44	19.14	0.0820
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	25.46	19.16	0.0824
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.54	19.24	0.0839
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	25.43	19.13	0.0818
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	24.47	18.17	0.0656
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.71	18.41	0.0693
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	24.53	18.23	0.0665
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	64@32	22.97	16.67	0.0465
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.39	17.09	0.0512
77	30	50	656000	3840	DFT-s-OFDM 64 QAM	1@131	23.12	16.82	0.0481
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	64@32	21.06	14.76	0.0299
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.09	14.79	0.0301
77	30	50	656000	3840	DFT-s-OFDM 256 QAM	1@131	20.92	14.62	0.0290
77	30	50	656000	3840	CP-OFDM QPSK	67@33	23.97	17.67	0.0585
77	30	50	656000	3840	CP-OFDM QPSK	1@1	24.06	17.76	0.0597
77	30	50	656000	3840	CP-OFDM QPSK	1@131	23.94	17.64	0.0581
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	64@32	25.72	19.42	0.0875
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@1	25.63	19.33	0.0857
77	30	50	663666	3954.99	DFT-s-OFDM PI/2 BPSK	1@131	25.69	19.39	0.0869
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	25.66	19.36	0.0863
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.61	19.31	0.0853
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	25.66	19.36	0.0863
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	24.65	18.35	0.0684

77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.69	18.39	0.0690
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	24.79	18.49	0.0706
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	64@32	23.19	16.89	0.0489
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@1	23.37	17.07	0.0509
77	30	50	663666	3954.99	DFT-s-OFDM 64 QAM	1@131	23.33	17.03	0.0505
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	64@32	21.24	14.94	0.0312
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@1	21.08	14.78	0.0301
77	30	50	663666	3954.99	DFT-s-OFDM 256 QAM	1@131	20.9	14.6	0.0288
77	30	50	663666	3954.99	CP-OFDM QPSK	67@33	24.17	17.87	0.0612
77	30	50	663666	3954.99	CP-OFDM QPSK	1@1	23.99	17.69	0.0587
77	30	50	663666	3954.99	CP-OFDM QPSK	1@131	24.08	17.78	0.0600
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	81@40	25.65	19.35	0.0861
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@1	25.55	19.25	0.0841
77	30	60	648668	3730.02	DFT-s-OFDM PI/2 BPSK	1@160	25.63	19.33	0.0857
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	25.55	19.25	0.0841
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.45	19.15	0.0822
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	25.57	19.27	0.0845
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	24.52	18.22	0.0664
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	24.6	18.3	0.0676
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	24.58	18.28	0.0673
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	81@40	23.13	16.83	0.0482
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@1	23.14	16.84	0.0483
77	30	60	648668	3730.02	DFT-s-OFDM 64 QAM	1@160	23.27	16.97	0.0498
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	81@40	21.14	14.84	0.0305
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@1	20.89	14.59	0.0288
77	30	60	648668	3730.02	DFT-s-OFDM 256 QAM	1@160	21.1	14.8	0.0302
77	30	60	648668	3730.02	CP-OFDM QPSK	81@40	24.04	17.74	0.0594
77	30	60	648668	3730.02	CP-OFDM QPSK	1@1	23.86	17.56	0.0570
77	30	60	648668	3730.02	CP-OFDM QPSK	1@160	24.01	17.71	0.0590
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	81@40	25.48	19.18	0.0828
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.56	19.26	0.0843
77	30	60	656000	3840	DFT-s-OFDM PI/2 BPSK	1@160	25.38	19.08	0.0809
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	25.39	19.09	0.0811
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	25.52	19.22	0.0836

77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	25.39	19.09	0.0811
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	24.37	18.07	0.0641
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.55	18.25	0.0668
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	24.58	18.28	0.0673
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	81@40	22.93	16.63	0.0460
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.22	16.92	0.0492
77	30	60	656000	3840	DFT-s-OFDM 64 QAM	1@160	22.88	16.58	0.0455
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	81@40	20.96	14.66	0.0292
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.19	14.89	0.0308
77	30	60	656000	3840	DFT-s-OFDM 256 QAM	1@160	20.89	14.59	0.0288
77	30	60	656000	3840	CP-OFDM QPSK	81@40	23.87	17.57	0.0571
77	30	60	656000	3840	CP-OFDM QPSK	1@1	24.13	17.83	0.0607
77	30	60	656000	3840	CP-OFDM QPSK	1@160	23.85	17.55	0.0569
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	81@40	25.76	19.46	0.0883
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@1	25.53	19.23	0.0838
77	30	60	663332	3949.98	DFT-s-OFDM PI/2 BPSK	1@160	25.65	19.35	0.0861
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	25.67	19.37	0.0865
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.51	19.21	0.0834
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	25.61	19.31	0.0853
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	24.64	18.34	0.0682
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.52	18.22	0.0664
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	24.69	18.39	0.0690
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	81@40	23.22	16.92	0.0492
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@1	23.27	16.97	0.0498
77	30	60	663332	3949.98	DFT-s-OFDM 64 QAM	1@160	23.41	17.11	0.0514
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	81@40	21.28	14.98	0.0315
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@1	21.03	14.73	0.0297
77	30	60	663332	3949.98	DFT-s-OFDM 256 QAM	1@160	21.1	14.8	0.0302
77	30	60	663332	3949.98	CP-OFDM QPSK	81@40	24.17	17.87	0.0612
77	30	60	663332	3949.98	CP-OFDM QPSK	1@1	24.11	17.81	0.0604
77	30	60	663332	3949.98	CP-OFDM QPSK	1@160	24.27	17.97	0.0627
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	90@45	26.07	19.77	0.0948
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@1	25.88	19.58	0.0908
77	30	70	649000	3735	DFT-s-OFDM PI/2 BPSK	1@187	25.92	19.62	0.0916

77	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	26.09	19.79	0.0953
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	25.88	19.58	0.0908
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	25.95	19.65	0.0923
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	25.08	18.78	0.0755
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	24.97	18.67	0.0736
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	25.13	18.83	0.0764
77	30	70	649000	3735	DFT-s-OFDM 64 QAM	90@45	23.63	17.33	0.0541
77	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@1	23.65	17.35	0.0543
77	30	70	649000	3735	DFT-s-OFDM 64 QAM	1@187	23.65	17.35	0.0543
77	30	70	649000	3735	DFT-s-OFDM 256 QAM	90@45	21.67	15.37	0.0344
77	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@1	21.36	15.06	0.0321
77	30	70	649000	3735	DFT-s-OFDM 256 QAM	1@187	21.46	15.16	0.0328
77	30	70	649000	3735	CP-OFDM QPSK	95@47	24.56	18.26	0.0670
77	30	70	649000	3735	CP-OFDM QPSK	1@1	24.54	18.24	0.0667
77	30	70	649000	3735	CP-OFDM QPSK	1@187	24.58	18.28	0.0673
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	90@45	25.81	19.51	0.0893
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.92	19.62	0.0916
77	30	70	656000	3840	DFT-s-OFDM PI/2 BPSK	1@187	25.78	19.48	0.0887
77	30	70	656000	3840	DFT-s-OFDM QPSK	90@45	25.83	19.53	0.0897
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	25.94	19.64	0.0920
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@187	25.78	19.48	0.0887
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	90@45	24.85	18.55	0.0716
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.08	18.78	0.0755
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@187	24.83	18.53	0.0713
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	90@45	23.39	17.09	0.0512
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.63	17.33	0.0541
77	30	70	656000	3840	DFT-s-OFDM 64 QAM	1@187	23.59	17.29	0.0536
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	90@45	21.42	15.12	0.0325
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.74	15.44	0.0350
77	30	70	656000	3840	DFT-s-OFDM 256 QAM	1@187	21.14	14.84	0.0305
77	30	70	656000	3840	CP-OFDM QPSK	95@47	24.31	18.01	0.0632
77	30	70	656000	3840	CP-OFDM QPSK	1@1	24.4	18.1	0.0646
77	30	70	656000	3840	CP-OFDM QPSK	1@187	24.32	18.02	0.0634
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	90@45	26.2	19.9	0.0977

77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@1	25.9	19.6	0.0912
77	30	70	663000	3945	DFT-s-OFDM PI/2 BPSK	1@187	26.14	19.84	0.0964
77	30	70	663000	3945	DFT-s-OFDM QPSK	90@45	26.19	19.89	0.0975
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.93	19.63	0.0918
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@187	26.13	19.83	0.0962
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	90@45	25.2	18.9	0.0776
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	25.02	18.72	0.0745
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@187	25.3	19	0.0794
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	90@45	23.73	17.43	0.0553
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	1@1	23.63	17.33	0.0541
77	30	70	663000	3945	DFT-s-OFDM 64 QAM	1@187	23.82	17.52	0.0565
77	30	70	663000	3945	DFT-s-OFDM 256 QAM	90@45	21.78	15.48	0.0353
77	30	70	663000	3945	DFT-s-OFDM 256 QAM	1@1	21.55	15.25	0.0335
77	30	70	663000	3945	DFT-s-OFDM 256 QAM	1@187	21.28	14.98	0.0315
77	30	70	663000	3945	CP-OFDM QPSK	95@47	24.7	18.4	0.0692
77	30	70	663000	3945	CP-OFDM QPSK	1@1	24.46	18.16	0.0655
77	30	70	663000	3945	CP-OFDM QPSK	1@187	24.67	18.37	0.0687
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	108@54	26.07	19.77	0.0948
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@1	25.87	19.57	0.0906
77	30	80	649334	3740.01	DFT-s-OFDM PI/2 BPSK	1@215	25.95	19.65	0.0923
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	26.06	19.76	0.0946
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	25.87	19.57	0.0906
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	26	19.7	0.0933
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	25.09	18.79	0.0757
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.04	18.74	0.0748
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	25.06	18.76	0.0752
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	108@54	23.6	17.3	0.0537
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@1	23.71	17.41	0.0551
77	30	80	649334	3740.01	DFT-s-OFDM 64 QAM	1@215	23.76	17.46	0.0557
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	108@54	21.69	15.39	0.0346
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@1	21.39	15.09	0.0323
77	30	80	649334	3740.01	DFT-s-OFDM 256 QAM	1@215	21.52	15.22	0.0333
77	30	80	649334	3740.01	CP-OFDM QPSK	109@54	24.56	18.26	0.0670
77	30	80	649334	3740.01	CP-OFDM QPSK	1@1	24.55	18.25	0.0668

77	30	80	649334	3740.01	CP-OFDM QPSK	1@215	24.46	18.16	0.0655
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	108@54	25.83	19.53	0.0897
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.96	19.66	0.0925
77	30	80	656000	3840	DFT-s-OFDM PI/2 BPSK	1@215	25.8	19.5	0.0891
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	25.84	19.54	0.0899
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	25.97	19.67	0.0927
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	25.85	19.55	0.0902
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	24.89	18.59	0.0723
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.1	18.8	0.0759
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	24.94	18.64	0.0731
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	108@54	23.39	17.09	0.0512
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.63	17.33	0.0541
77	30	80	656000	3840	DFT-s-OFDM 64 QAM	1@215	23.61	17.31	0.0538
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	108@54	21.42	15.12	0.0325
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.42	15.12	0.0325
77	30	80	656000	3840	DFT-s-OFDM 256 QAM	1@215	21.3	15	0.0316
77	30	80	656000	3840	CP-OFDM QPSK	109@54	24.34	18.04	0.0637
77	30	80	656000	3840	CP-OFDM QPSK	1@1	24.69	18.39	0.0690
77	30	80	656000	3840	CP-OFDM QPSK	1@215	24.47	18.17	0.0656
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	108@54	26.17	19.87	0.0971
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@1	25.83	19.53	0.0897
77	30	80	662666	3939.99	DFT-s-OFDM PI/2 BPSK	1@215	26.11	19.81	0.0957
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	26.17	19.87	0.0971
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.81	19.51	0.0893
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	26.1	19.8	0.0955
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	25.22	18.92	0.0780
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	24.99	18.69	0.0740
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	25.19	18.89	0.0774
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	108@54	23.73	17.43	0.0553
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@1	23.59	17.29	0.0536
77	30	80	662666	3939.99	DFT-s-OFDM 64 QAM	1@215	23.78	17.48	0.0560
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	108@54	21.78	15.48	0.0353
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@1	21.28	14.98	0.0315
77	30	80	662666	3939.99	DFT-s-OFDM 256 QAM	1@215	21.57	15.27	0.0337

77	30	80	662666	3939.99	CP-OFDM QPSK	109@54	24.7	18.4	0.0692
77	30	80	662666	3939.99	CP-OFDM QPSK	1@1	24.43	18.13	0.0650
77	30	80	662666	3939.99	CP-OFDM QPSK	1@215	24.72	18.42	0.0695
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	120@60	26.07	19.77	0.0948
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@1	25.87	19.57	0.0906
77	30	90	649668	3745.02	DFT-s-OFDM PI/2 BPSK	1@243	25.91	19.61	0.0914
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	26.09	19.79	0.0953
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	25.92	19.62	0.0916
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	25.98	19.68	0.0929
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	25.11	18.81	0.0760
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.03	18.73	0.0746
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	25.09	18.79	0.0757
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	120@60	23.64	17.34	0.0542
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@1	23.52	17.22	0.0527
77	30	90	649668	3745.02	DFT-s-OFDM 64 QAM	1@243	23.65	17.35	0.0543
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	120@60	21.65	15.35	0.0343
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@1	21.22	14.92	0.0310
77	30	90	649668	3745.02	DFT-s-OFDM 256 QAM	1@243	21.46	15.16	0.0328
77	30	90	649668	3745.02	CP-OFDM QPSK	123@61	24.63	18.33	0.0681
77	30	90	649668	3745.02	CP-OFDM QPSK	1@1	24.47	18.17	0.0656
77	30	90	649668	3745.02	CP-OFDM QPSK	1@243	24.38	18.08	0.0643
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	120@60	25.82	19.52	0.0895
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.94	19.64	0.0920
77	30	90	656000	3840	DFT-s-OFDM PI/2 BPSK	1@243	25.82	19.52	0.0895
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	25.85	19.55	0.0902
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	25.98	19.68	0.0929
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	25.87	19.57	0.0906
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	24.87	18.57	0.0719
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.11	18.81	0.0760
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	24.96	18.66	0.0735
77	30	90	656000	3840	DFT-s-OFDM 64 QAM	120@60	23.42	17.12	0.0515
77	30	90	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.58	17.28	0.0535
77	30	90	656000	3840	DFT-s-OFDM 64 QAM	1@243	23.56	17.26	0.0532
77	30	90	656000	3840	DFT-s-OFDM 256 QAM	120@60	21.47	15.17	0.0329

77	30	90	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.44	15.14	0.0327
77	30	90	656000	3840	DFT-s-OFDM 256 QAM	1@243	21.3	15	0.0316
77	30	90	656000	3840	CP-OFDM QPSK	123@61	24.35	18.05	0.0638
77	30	90	656000	3840	CP-OFDM QPSK	1@1	24.56	18.26	0.0670
77	30	90	656000	3840	CP-OFDM QPSK	1@243	24.28	17.98	0.0628
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	120@60	26.12	19.82	0.0959
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@1	25.75	19.45	0.0881
77	30	90	662332	3934.98	DFT-s-OFDM PI/2 BPSK	1@243	26	19.7	0.0933
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	26.1	19.8	0.0955
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	25.75	19.45	0.0881
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	26.01	19.71	0.0935
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	25.17	18.87	0.0771
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	24.84	18.54	0.0714
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	25.21	18.91	0.0778
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	120@60	23.66	17.36	0.0545
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	1@1	23.57	17.27	0.0533
77	30	90	662332	3934.98	DFT-s-OFDM 64 QAM	1@243	23.59	17.29	0.0536
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	120@60	21.72	15.42	0.0348
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	1@1	21.28	14.98	0.0315
77	30	90	662332	3934.98	DFT-s-OFDM 256 QAM	1@243	21.68	15.38	0.0345
77	30	90	662332	3934.98	CP-OFDM QPSK	123@61	24.61	18.31	0.0678
77	30	90	662332	3934.98	CP-OFDM QPSK	1@1	24.29	17.99	0.0630
77	30	90	662332	3934.98	CP-OFDM QPSK	1@243	24.5	18.2	0.0661
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.1	19.8	0.0955
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.86	19.56	0.0904
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.94	19.64	0.0920
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.1	19.8	0.0955
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.89	19.59	0.0910
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	25.98	19.68	0.0929
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.16	18.86	0.0769
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.03	18.73	0.0746
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	25.1	18.8	0.0759
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.63	17.33	0.0541
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.53	17.23	0.0528

77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.65	17.35	0.0543
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.68	15.38	0.0345
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	21.22	14.92	0.0310
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	21.43	15.13	0.0326
77	30	100	650000	3750	CP-OFDM QPSK	137@68	24.62	18.32	0.0679
77	30	100	650000	3750	CP-OFDM QPSK	1@1	24.45	18.15	0.0653
77	30	100	650000	3750	CP-OFDM QPSK	1@271	24.35	18.05	0.0638
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	25.86	19.56	0.0904
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	25.97	19.67	0.0927
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	25.89	19.59	0.0910
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	25.85	19.55	0.0902
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	26.01	19.71	0.0935
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	25.86	19.56	0.0904
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	24.88	18.58	0.0721
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.12	18.82	0.0762
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	24.99	18.69	0.0740
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.44	17.14	0.0518
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.65	17.35	0.0543
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	23.52	17.22	0.0527
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.45	15.15	0.0327
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.41	15.11	0.0324
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	21.36	15.06	0.0321
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.36	18.06	0.0640
77	30	100	656000	3840	CP-OFDM QPSK	1@1	24.61	18.31	0.0678
77	30	100	656000	3840	CP-OFDM QPSK	1@271	24.34	18.04	0.0637
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	26.09	19.79	0.0953
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	25.71	19.41	0.0873
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	26.08	19.78	0.0951
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	26.13	19.83	0.0962
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	25.73	19.43	0.0877
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	26.1	19.8	0.0955
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	25.13	18.83	0.0764
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	24.85	18.55	0.0716
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	25.26	18.96	0.0787

77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	23.65	17.35	0.0543
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	23.43	17.13	0.0516
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	23.79	17.49	0.0561
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	21.68	15.38	0.0345
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	21.2	14.9	0.0309
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	21.75	15.45	0.0351
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.62	18.32	0.0679
77	30	100	662000	3930	CP-OFDM QPSK	1@1	24.34	18.04	0.0637
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.6	18.3	0.0676

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00274	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00486	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00678	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0023	PASS	-30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00383	PASS	-20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00292	PASS	-10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00425	PASS	0°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00535	PASS	10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00275	PASS	20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00618	PASS	30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00579	PASS	40°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.00627	PASS	50°C

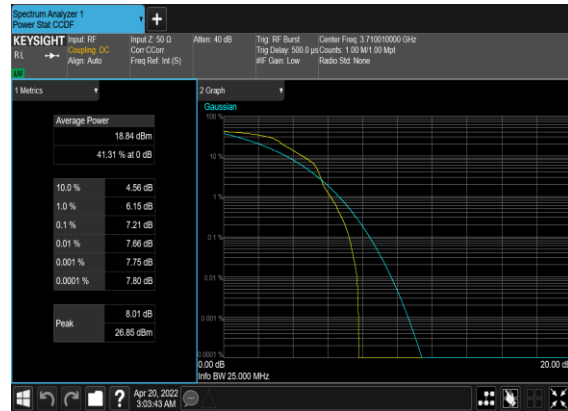
Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@0	7.33	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	7.21	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	8.38	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	8.81	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	7.24	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.48	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	8.49	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	8.02	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@0	7.25	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	7.56	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	8.33	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	8.3	13	PASS

N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH



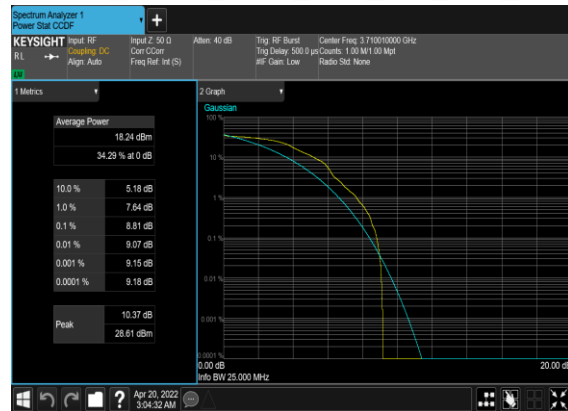
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



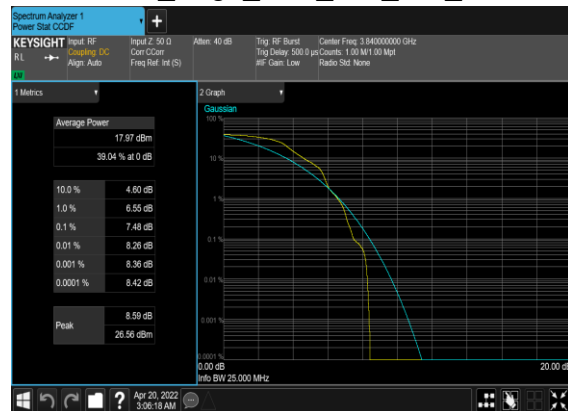
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH



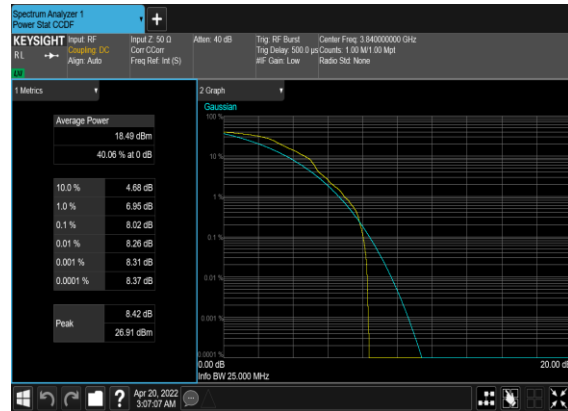
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH



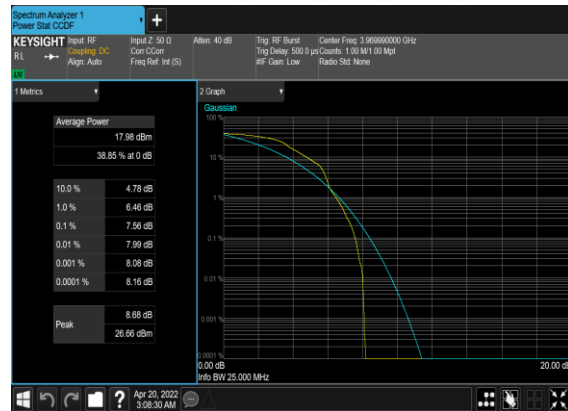
N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



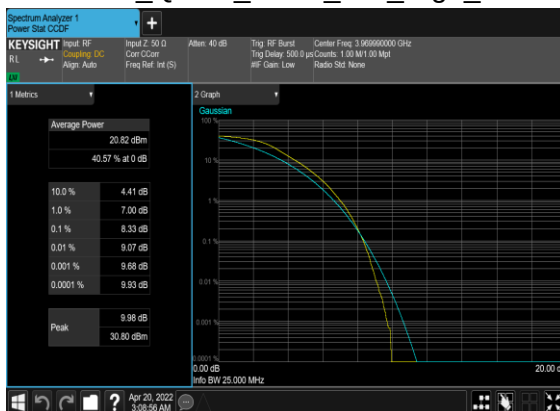
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH



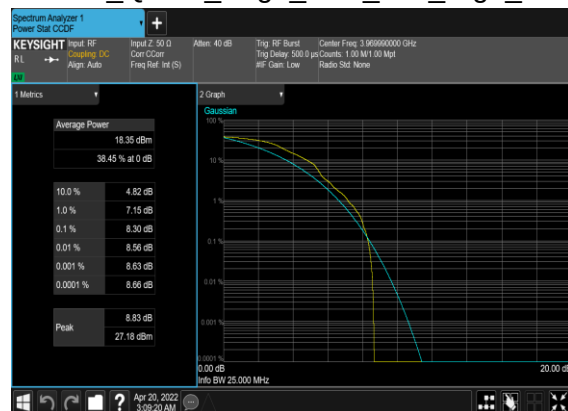
N77(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N77(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



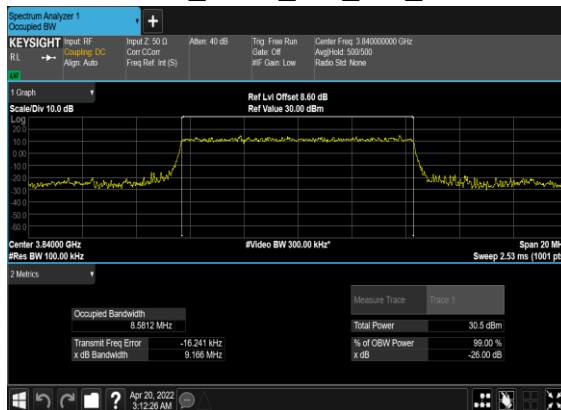
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	656000	3840.0	DFT-s-OFDM PI/2 BPSK	24@0	8.5812	9.166
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	8.5989	9.2
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5617	9.969
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5814	9.227
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5837	9.846
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5765	9.413
77	30	15	656000	3840.0	DFT-s-OFDM PI/2 BPSK	36@0	12.906	13.94
77	30	15	656000	3840.0	DFT-s-OFDM QPSK	36@0	12.874	13.79
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.565	15.18
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.564	14.64
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.577	14.51
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.584	14.69
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	17.852	18.74
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17.832	19.39
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.189	19.3
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.203	19.1
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.225	19.07
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.215	19.16
77	30	25	656000	3840.0	DFT-s-OFDM PI/2 BPSK	64@0	22.827	23.91
77	30	25	656000	3840.0	DFT-s-OFDM QPSK	64@0	22.782	23.81
77	30	25	656000	3840.0	CP-OFDM QPSK	65@0	23.21	24.58
77	30	25	656000	3840.0	CP-OFDM 16 QAM	65@0	23.184	24.6
77	30	25	656000	3840.0	CP-OFDM 64 QAM	65@0	23.217	24.2
77	30	25	656000	3840.0	CP-OFDM 256 QAM	65@0	23.21	24.79
77	30	30	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	26.751	28.2

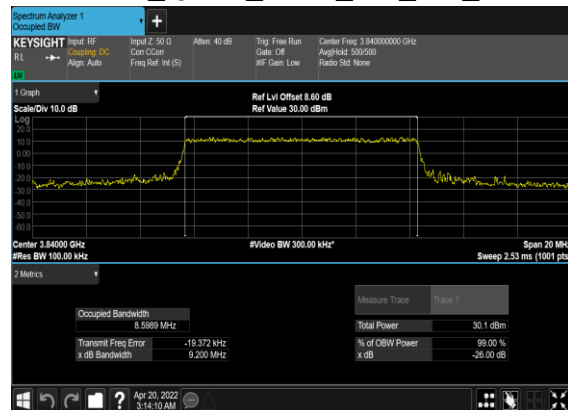
77	30	30	656000	3840.0	DFT-s-OFDM QPSK	75@0	26.759	28.11
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.832	29.1
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.859	29.67
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.86	29.21
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.843	29.09
77	30	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	35.703	37.16
77	30	40	656000	3840.0	DFT-s-OFDM QPSK	100@0	35.754	37.25
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.788	40.69
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.842	39.28
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.872	39.76
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.813	39.49
77	30	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	45.76	48.15
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	128@0	45.774	47.44
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.434	49.31
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.508	49.06
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.5	49.16
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.393	49.29
77	30	60	656000	3840.0	DFT-s-OFDM PI/2 BPSK	162@0	57.836	59.72
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	162@0	57.864	59.82
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.91	59.85
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.795	59.76
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.813	59.69
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.767	59.97
77	30	70	656000	3840.0	DFT-s-OFDM PI/2 BPSK	180@0	64.324	66.54
77	30	70	656000	3840.0	DFT-s-OFDM QPSK	180@0	64.34	66.35
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.537	69.66
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.432	69.71

77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.484	69.6
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.419	69.56
77	30	80	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	77.201	79.59
77	30	80	656000	3840.0	DFT-s-OFDM QPSK	216@0	77.173	79.62
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.45	80.82
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.527	80.06
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.413	80.04
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.593	82.75
77	30	90	656000	3840.0	DFT-s-OFDM PI/2 BPSK	240@0	85.898	88.56
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	240@0	85.68	88.55
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.592	90.33
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.432	90.23
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.559	91.29
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.468	90.31
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	270@0	96.585	99.59
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	270@0	96.409	99.54
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.344	100.7
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.326	100.6
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.49	100.5
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.627	100.6

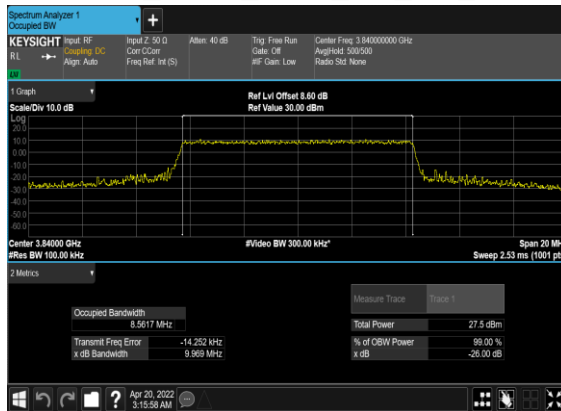
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BPSK_Outer_Full_Mid_CH



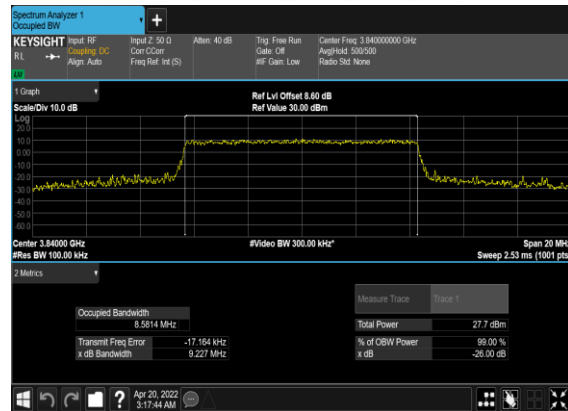
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OFDM_QPSK_Outer_Full_Mid_CH



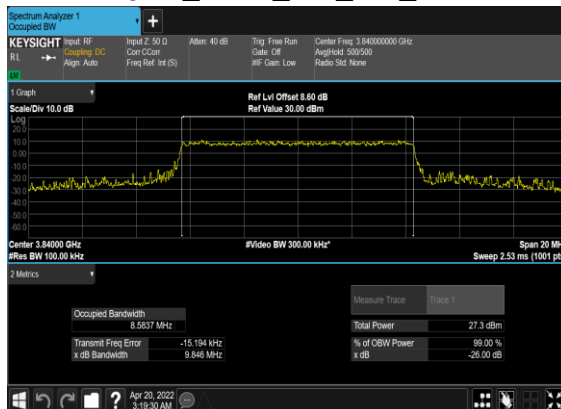
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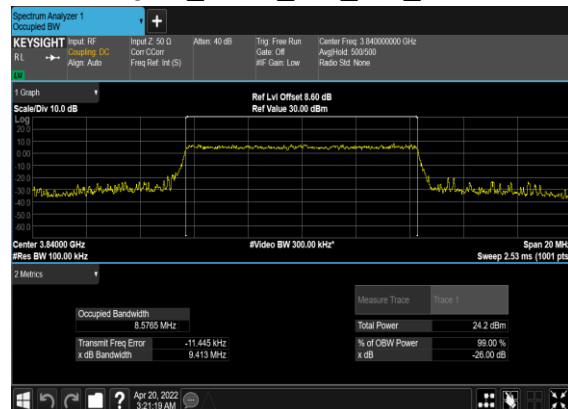
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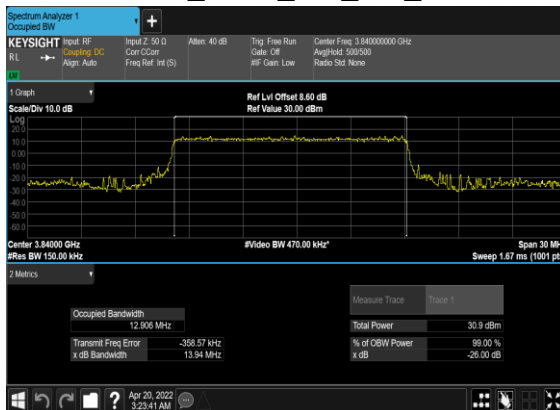
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QAM_Outer_Full_Mid_CH



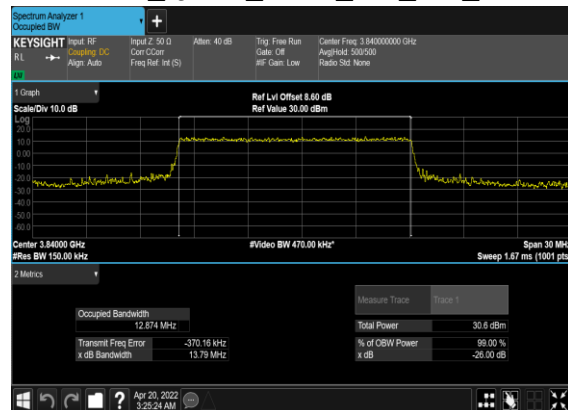
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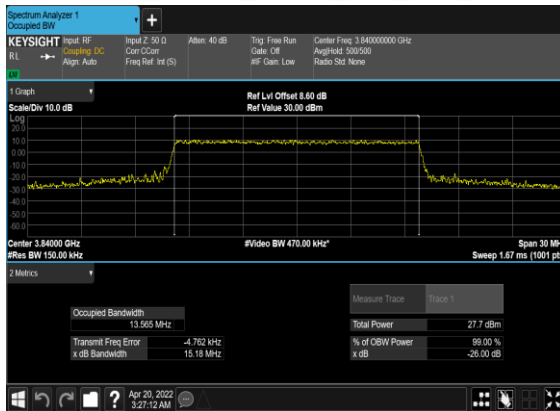
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BPSK_Outer_Full_Mid_CH



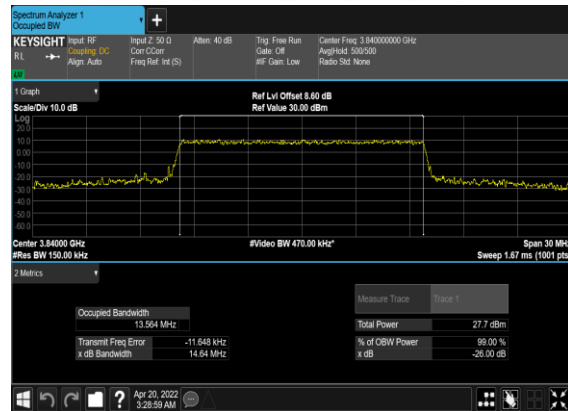
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OFDM_QPSK_Outer_Full_Mid_CH



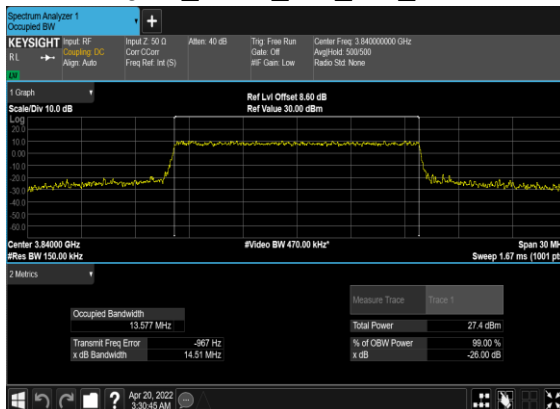
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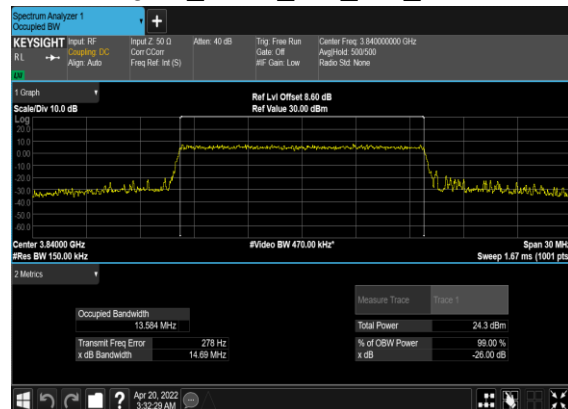
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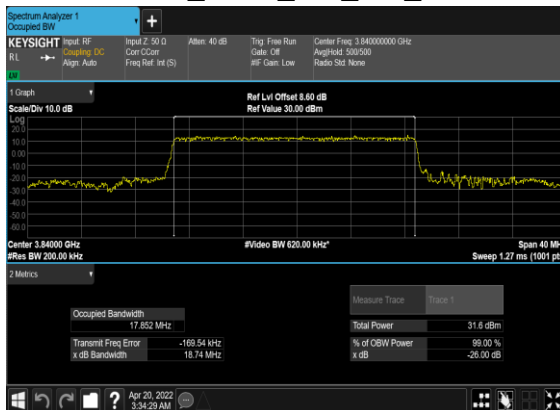
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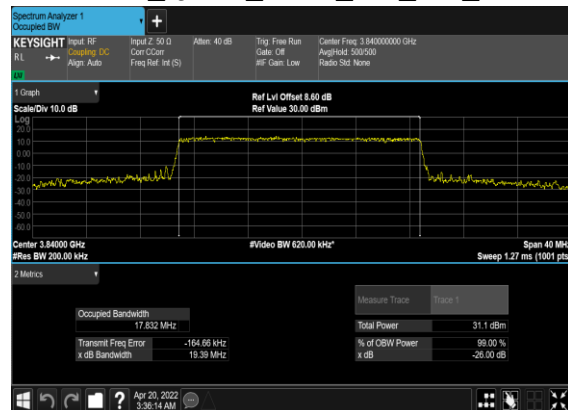
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QAM_Outer_Full_Mid_CH



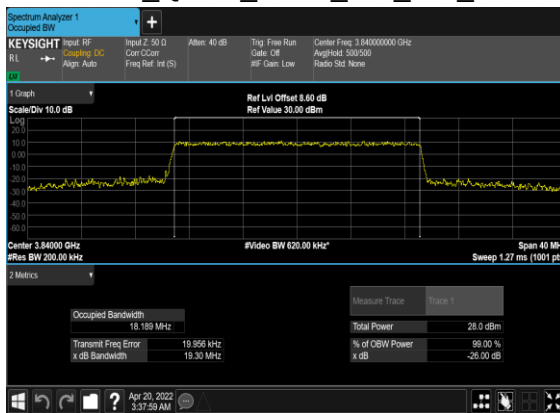
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BPSK_Outer_Full_Mid_CH



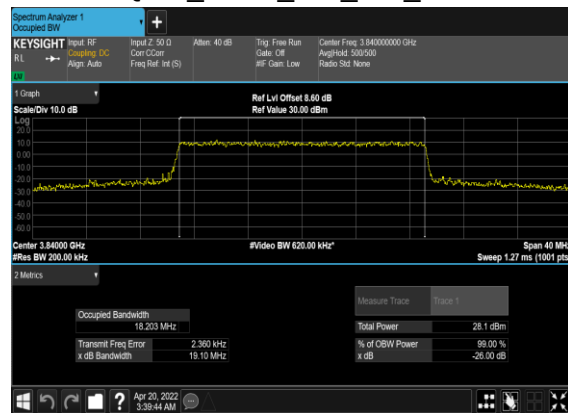
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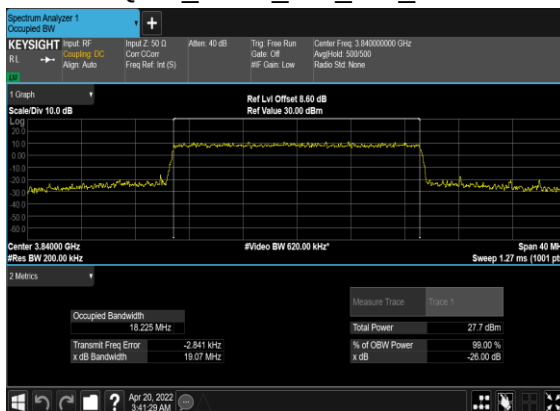
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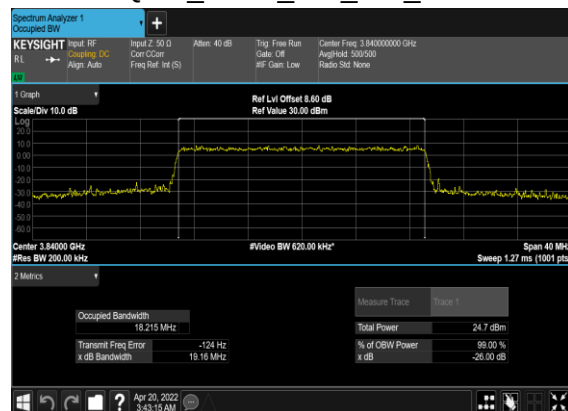
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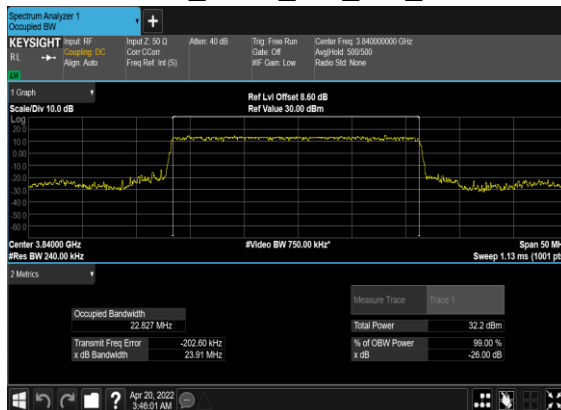
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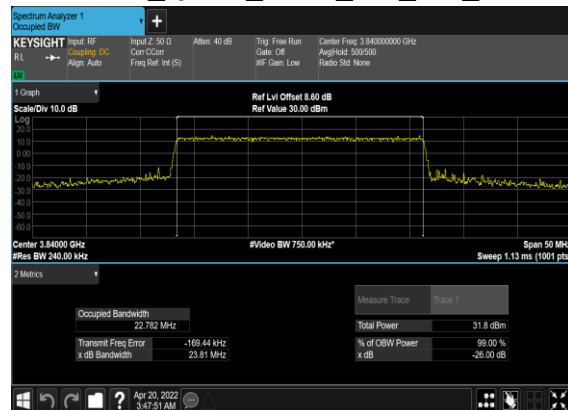
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QAM_Outer_Full_Mid_CH



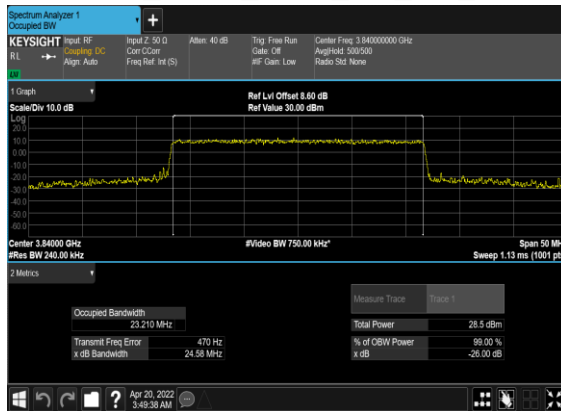
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BPSK_Outer_Full_Mid_CH



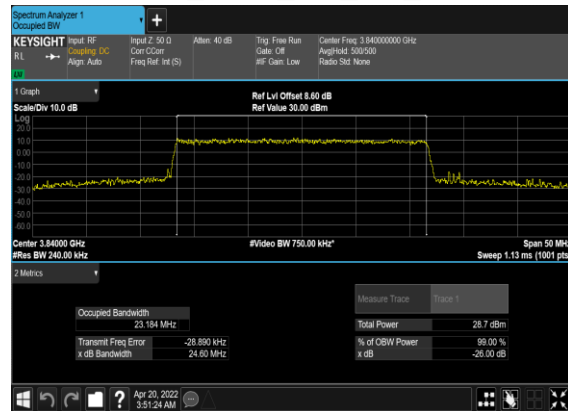
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OFDM_QPSK_Outer_Full_Mid_CH



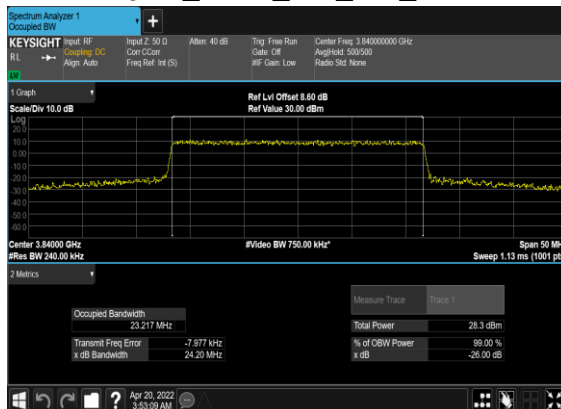
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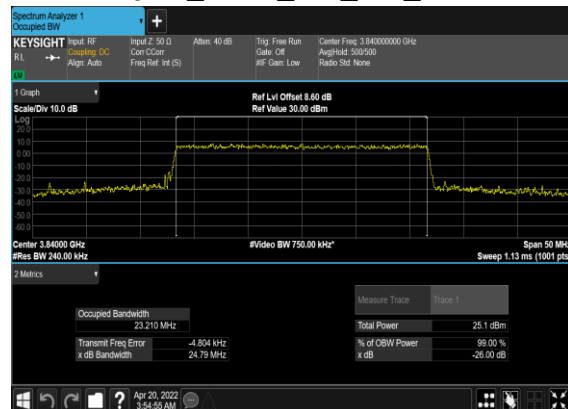
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QAM_Outer_Full_Mid_CH



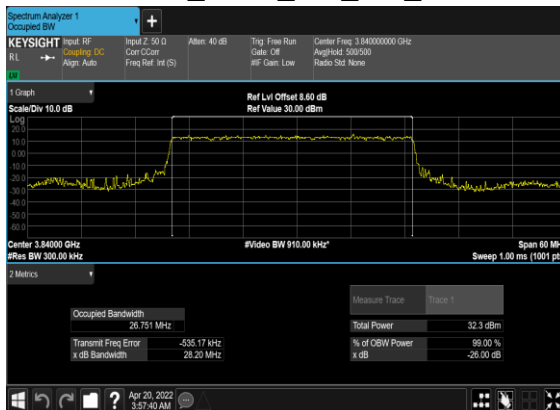
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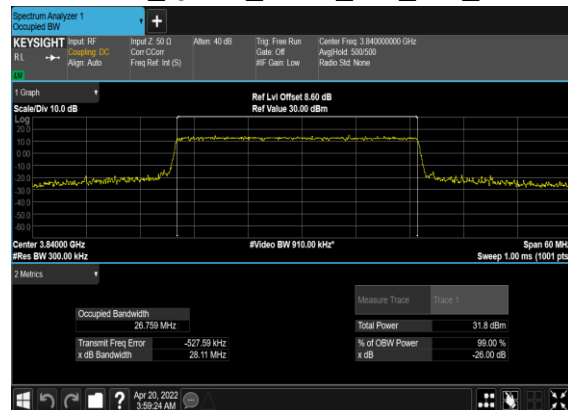
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QAM_Outer_Full_Mid_CH



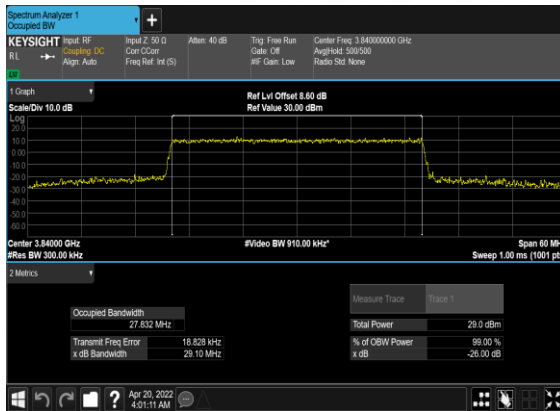
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BPSK_Outer_Full_Mid_CH



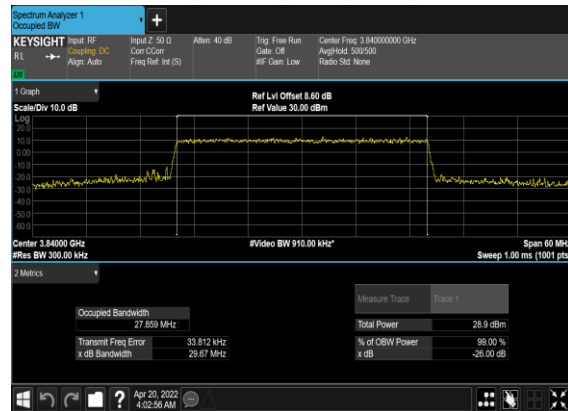
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OFDM_QPSK_Outer_Full_Mid_CH



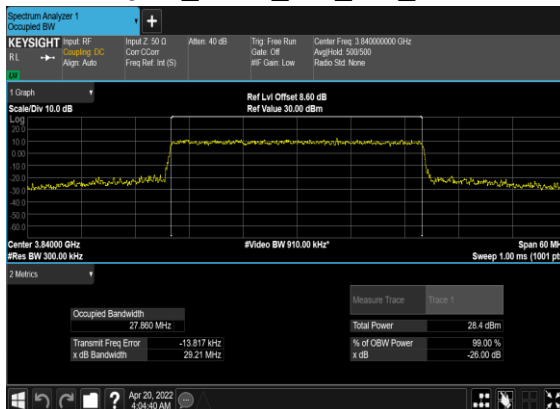
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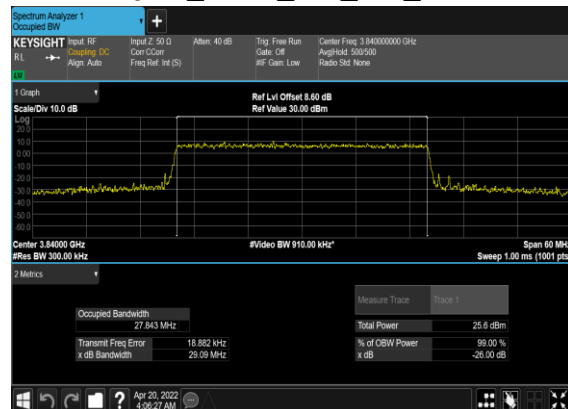
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QAM_Outer_Full_Mid_CH



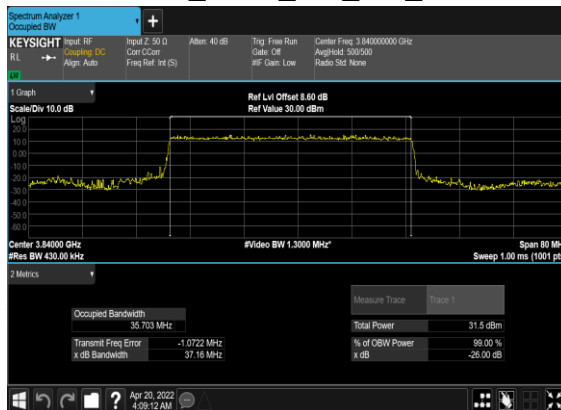
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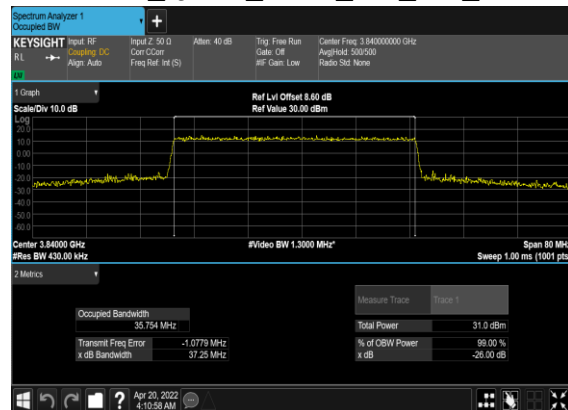
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QAM_Outer_Full_Mid_CH



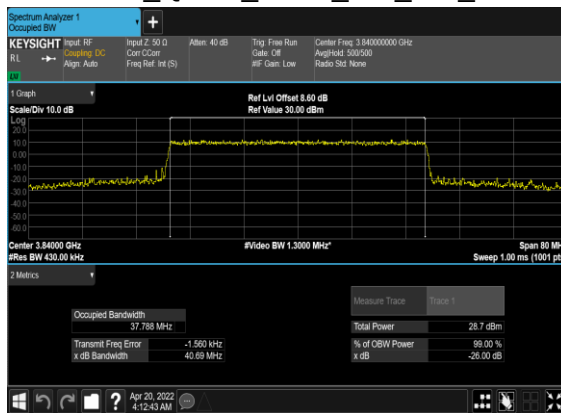
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BPSK_Outer_Full_Mid_CH



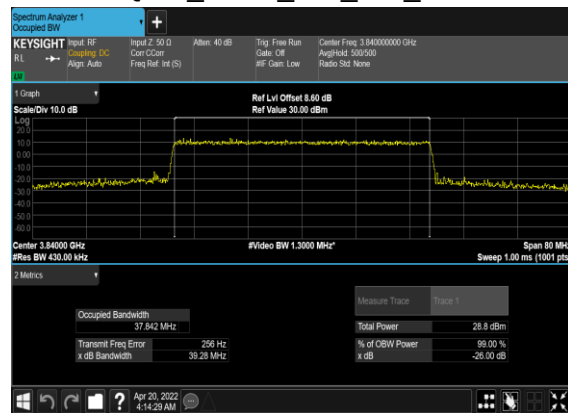
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OFDM_QPSK_Outer_Full_Mid_CH



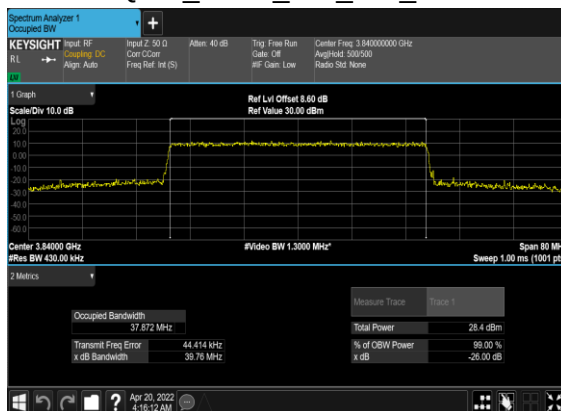
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OFDM_QPSK_Outer_Full_Mid_CH



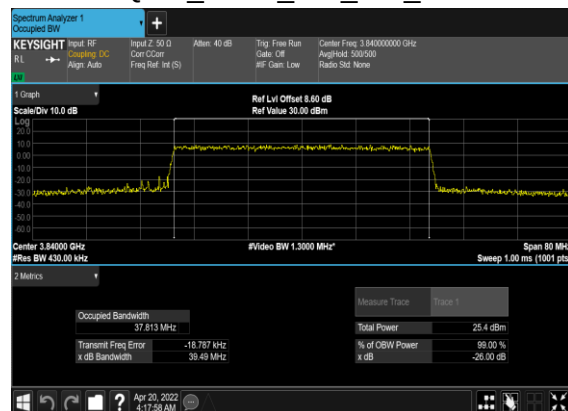
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QAM_Outer_Full_Mid_CH



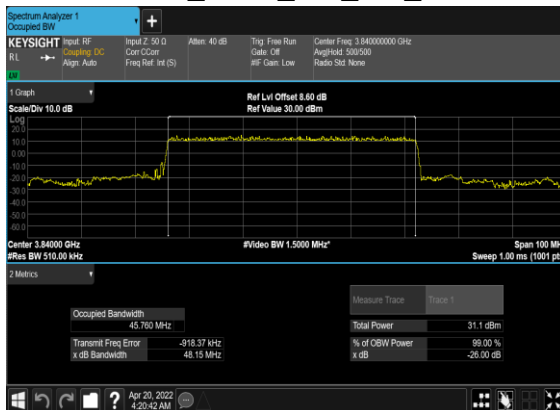
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QAM_Outer_Full_Mid_CH



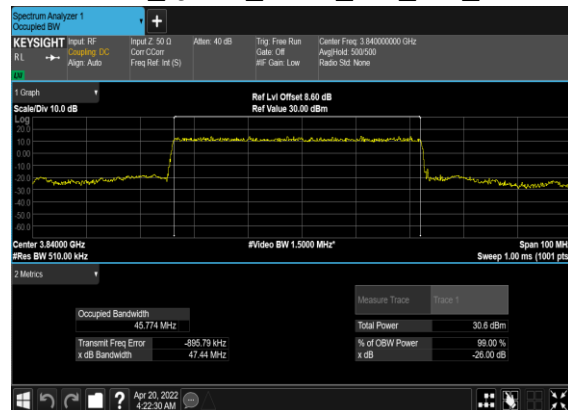
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QAM_Outer_Full_Mid_CH



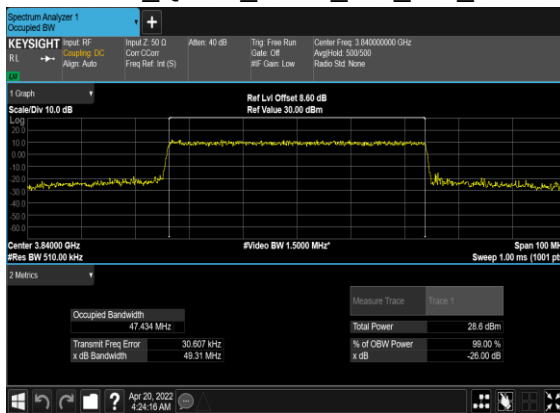
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BPSK_Outer_Full_Mid_CH



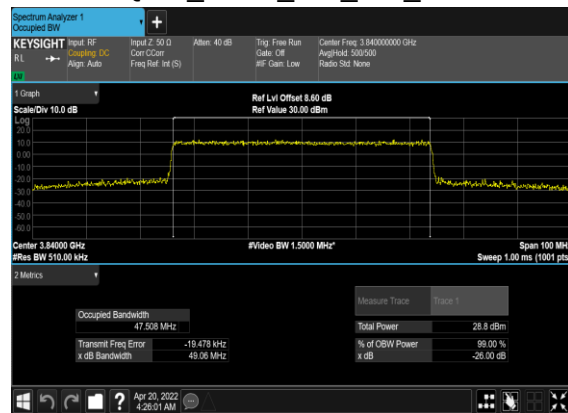
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OFDM_QPSK_Outer_Full_Mid_CH



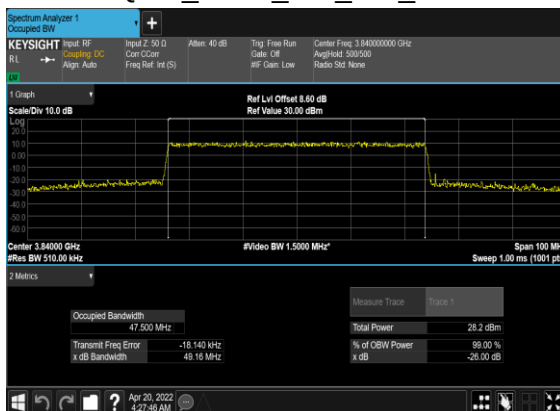
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OFDM_QPSK_Outer_Full_Mid_CH



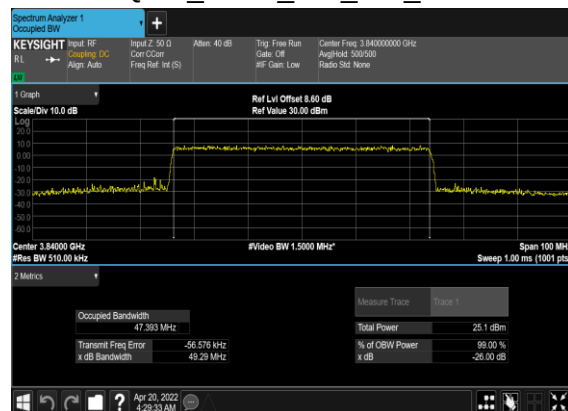
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QAM_Outer_Full_Mid_CH



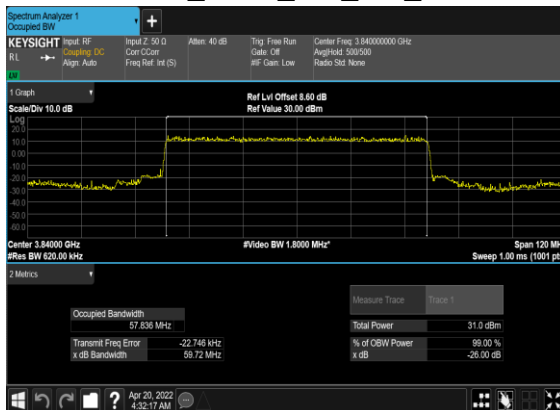
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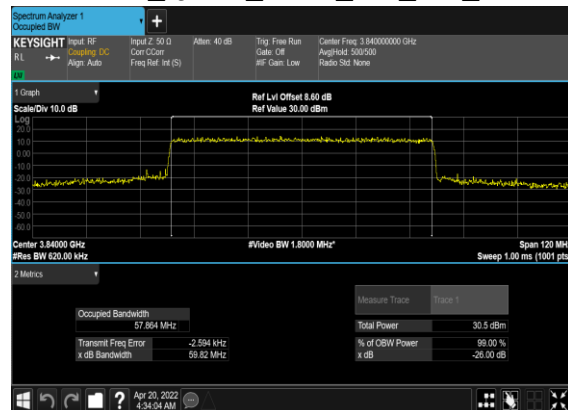
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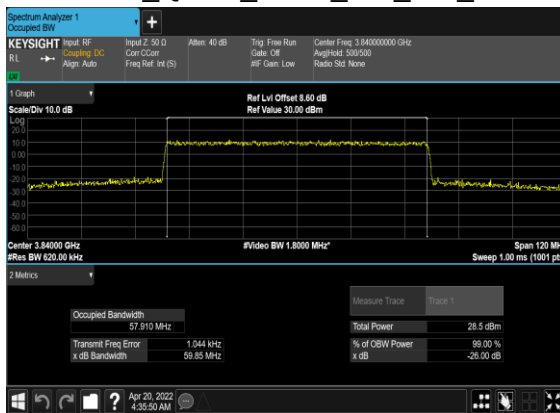
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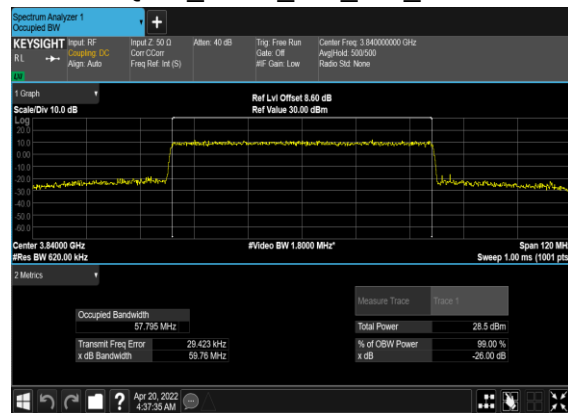
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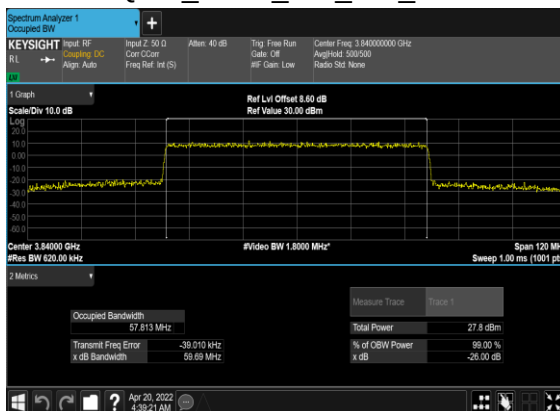
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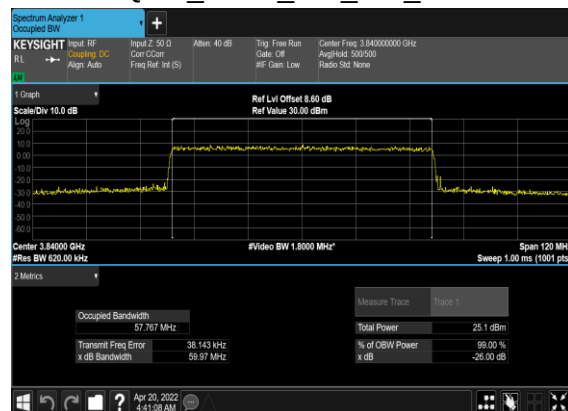
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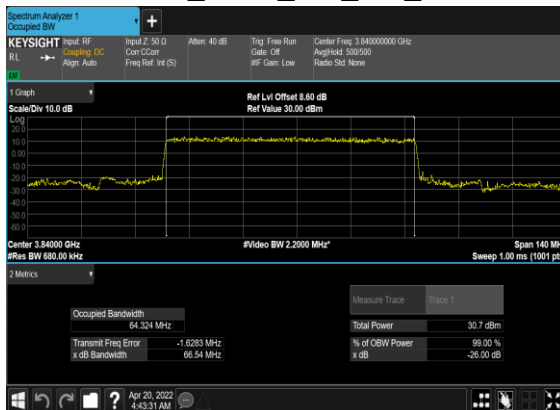
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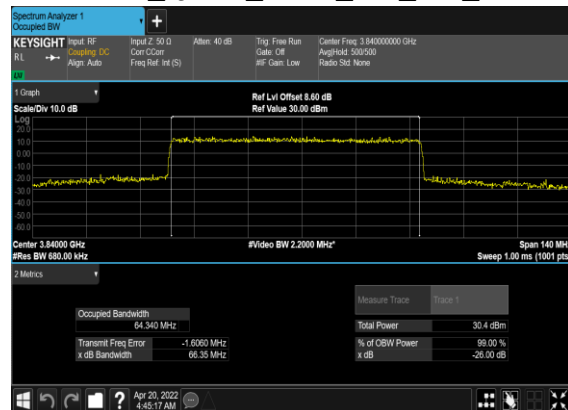
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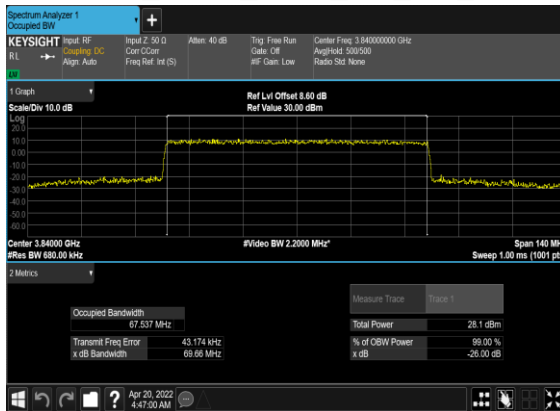
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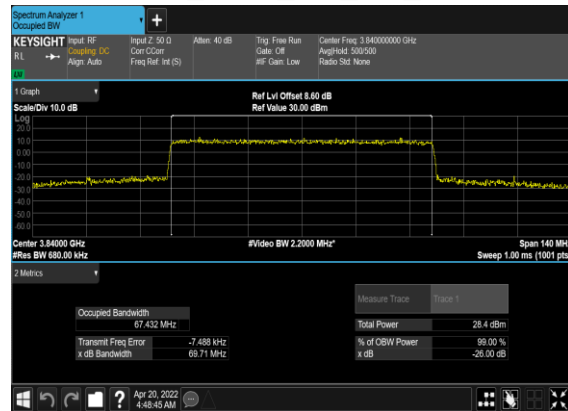
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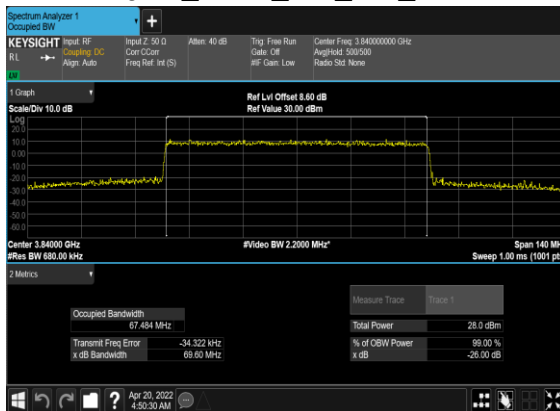
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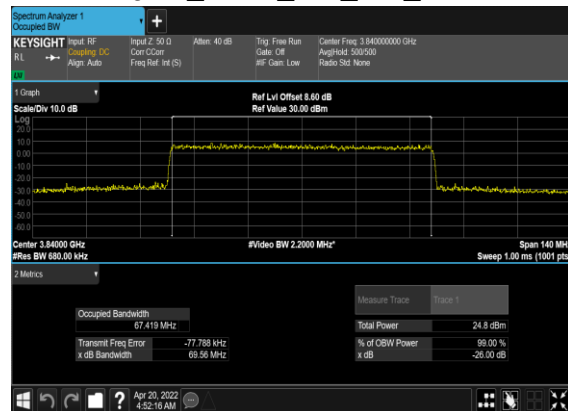
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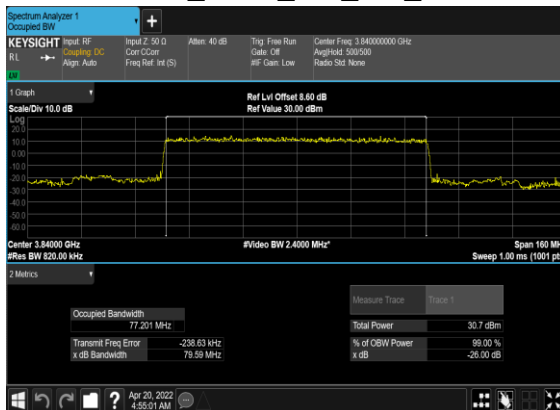
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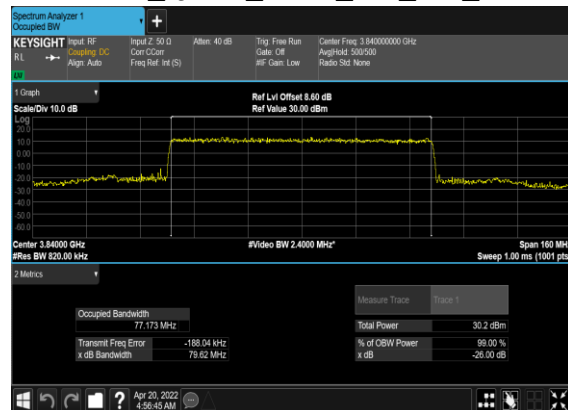
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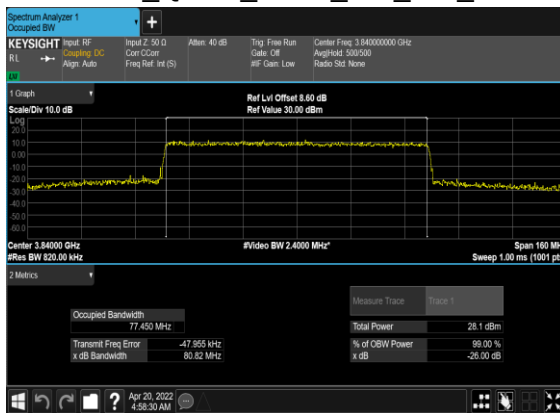
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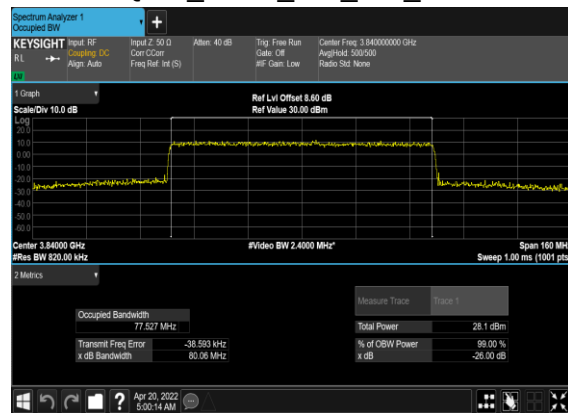
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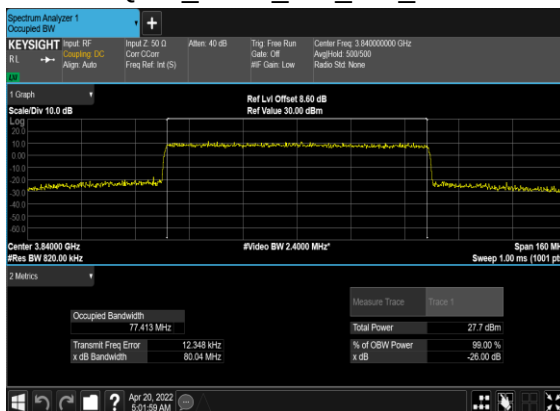
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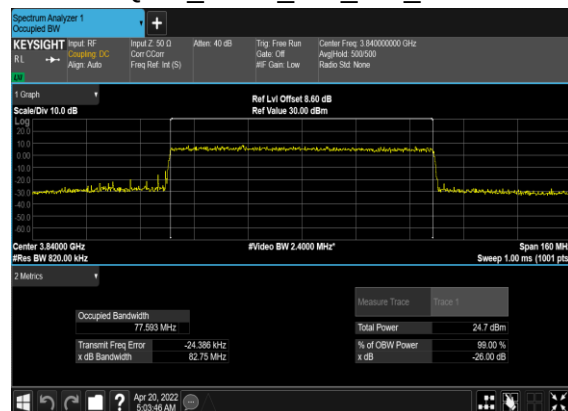
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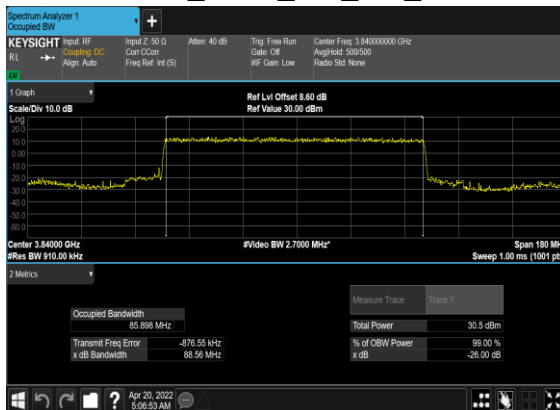
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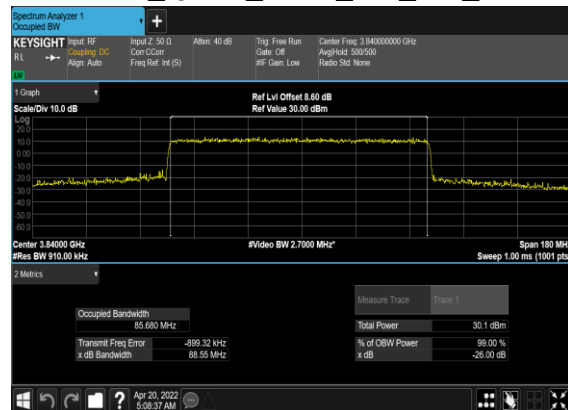
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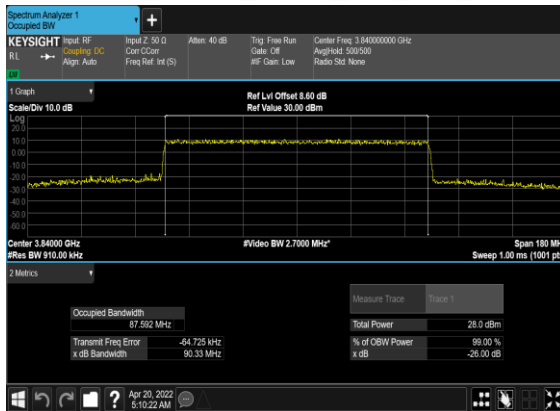
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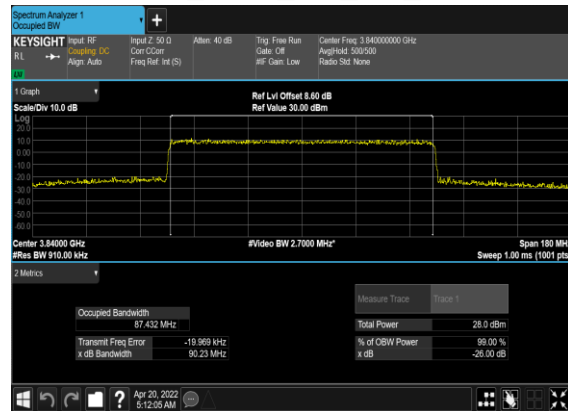
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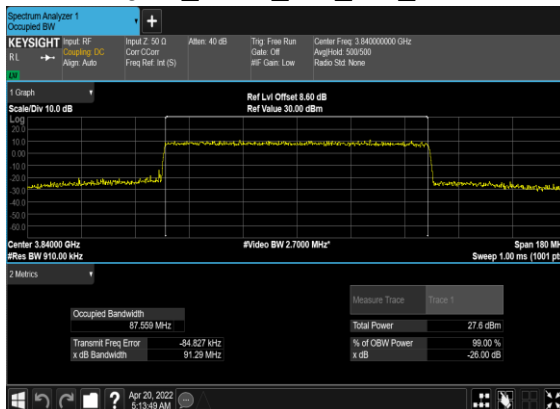
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OFDM_QPSK_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

