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DFT-s-OFDM Pi/2_Band2_10MHz_BPSK_50_0_LowCH371000-1855

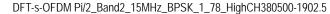






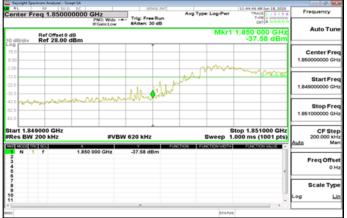
DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_1_0_LowCH371500-1857.5

Keysight Spectrum Analyzer - Swept SA				
enter Freq 1.85000000	D GHz PNC: Wide Trig: Free Run	Avg Type: Log-Pwr	AM Jun 18, 2020	Frequency
Ref Offset 8 dB 0 dB/div Ref 28.00 dBm	IFGain:Low #Atten: 30 dB	Mkr1 1.850	000 GHz .09 dBm	Auto Tun
0 g 10 0 0.00 2.00				Center Fre
12.0 22.0 32.0	nin N W		MAN	Start Fre 1.849000000 GH
20 Hullowhullowh	W-WWWWWWW			Stop Fr 1.851000000 G
tart 1.849000 GHz Res BW 200 kHz	#VBW 620 kHz	Sweep 1.000 ms		CF Ste 200.000 ki <u>Auto</u> M
N 1 f 1.8 2 3 4 5	50 000 GHz -21.09 dBm			Freq Offs 0
6 7 8 9				Scale Typ
10				Log L
90		STATUS		

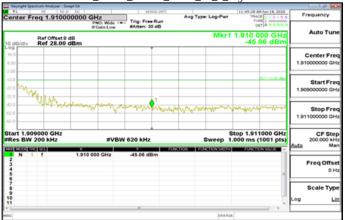




DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_75_0_LowCH371500-1857.5



DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_75_0_HighCH380500-1902.5



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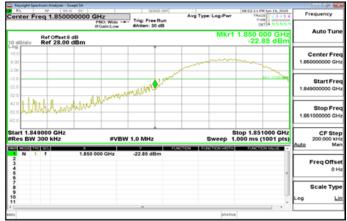
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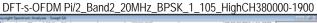
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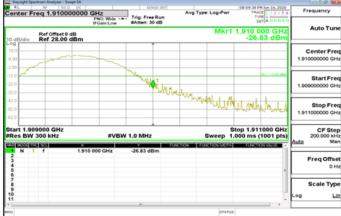
Report No.: ER/2020/30085 Page 140 of 212



DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_1_0_LowCH372000-1860

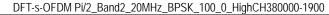


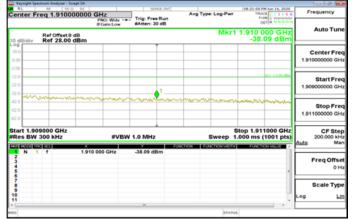




DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_100_0_LowCH372000-1860

Keysight Spectrum Analyzer - Swept SA			
Center Freq 1.85000000	GHz PNO: Wide Trig: Free Run	08:12:30 PH Jun 16, 2020 Avg Type: Log-Pwr TIPE A WWWW Datt & NN N	Frequency
Ref Offset 8 dB	IFGain:Low #Atten: 30 dB	Mkr1 1.850 000 GH: -29.15 dBn	Auto Tun
100 8.00 -2.00			Center Fre 1.850000000 GH
-12.0	under and the state of the stat	Month 1200.00	Start Fre 1.849000000 GH
42.0 			Stop Fre 1.851000000 GH
Start 1.849000 GHz Res BW 300 kHz	#VBW 1.0 MHz	Stop 1.851000 GH Sweep 1.000 ms (1001 pts	
	0 000 GHz -29.15 dBm		Freq Offse
7 8 9			Scale Typ
11			Log Li
80		STATUS	





DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_1_0_LowCH165300-826.5



DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_1_24_HighCH169300-846.5



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DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_25_0_LowCH165300-826.5





DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_25_0_HighCH169300-846.5

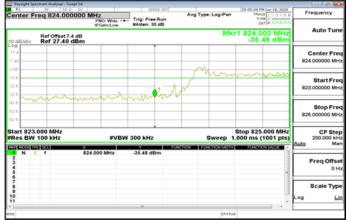
DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_1_0_LowCH165800-829

Keysight Spectrum Analyzer - Swept SA				
Center Freq 824.000000	Darb Mide and Trig: Free Ru	Avg Type: Log-Pwr	04:53:07 PM Jun 18, 2020 TRACE 1 2 3 4 5 6 TVPE 4 WWWWW	Frequency
Ref Offset 7.4 dB 10 dB/div Ref 27.40 dBm	IFGain:Low #Atten: 30 dB		1 824.000 MHz -28.91 dBm	Auto Tune
17.4 7.40 -2.60		m		Center Free 824.000000 MHz
-12.6		M	mmun	Start Free 823.000000 MHz
-42.6 42.6 42.6	WWWW !!!		ΥΥ	Stop Free 825.000000 MH
Start 823.000 MHz #Res BW 100 kHz	#VBW 300 kHz		Stop 825.000 MHz .000 ms (1001 pts)	CF Step 200.000 kHz Auto Mar
1 N 1 f 8 2 3 4 6	24.000 MHz -28.91 dBm			Freq Offse 0 Ha
7 8 9 10				Scale Type
4 (M90		STATU	3	

DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_1_51_HighCH168800-844



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_50_0_LowCH165800-829



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_50_0_HighCH168800-844

Keysight Spectrum Analyzer - Swept 5 RL RF 50 Q		SENSE INT		04:56:27 PH Jun 18, 2020	-
enter Freq 849.0000	DO MHz	Trig: Free Run	Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A NNNNN	
Ref Offset 7.4 d dB/div Ref 27.40 dB		#Atten: 30 dB	Mkr	849.000 MHz -36.59 dBm	A
9 .4 a0					Center Fre 849.000000 MH
e manna	hum	1		04.1 -13.00 alber	Start Fre 848.000000 Mi
6			mmm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
6 6 art 848.000 MHz		V 300 kHz	S	top 850.000 MHz 000 ms (1001 pts)	850.000000 M CF Sto 200.000 k
art 848.000 MHz es BW 100 kHz		V 300 kHz	S	top 850.000 MHz	850.000000 M CF Sto 200.000 k
art 848.000 MHz es BW 100 kHz	#VBV	V 300 kHz	S Sweep 1.0	top 850.000 MHz 000 ms (1001 pts)	ESO.000000 M CF Sto 200.000 ki <u>Auto</u> M Freq Offs
art 848.000 MHz es BW 100 kHz	#VBV	V 300 kHz	S Sweep 1.0	top 850.000 MHz 000 ms (1001 pts)	850.000000 М СF Sta 200.000 ki Ашta Freq Offs 0 1
art 848.000 MHz es BW 100 kHz	#VBV	V 300 kHz	S Sweep 1.0	top 850.000 MHz 000 ms (1001 pts)	

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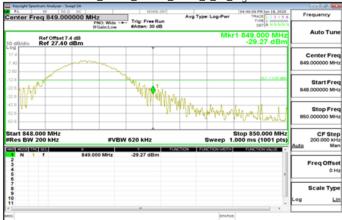
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DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_1_0_LowCH166300-831.5



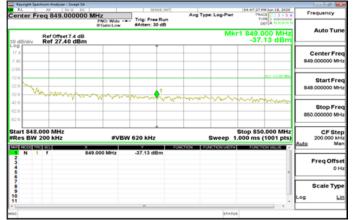




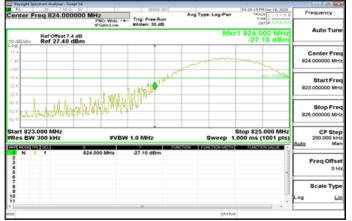
DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_75_0_LowCH166300-831.5

	SENSE:INT			
enter Freq 824.000000		Avg Type: Log-Pwr	50:52 PH Jun 18, 2020 TRACE 1 2 3 4 5 6 TVPE	Frequency
Ref Offset 7.4 dB	IFGain:Low #Atten: 30 dB	Mkr1 8	24.000 MHz -33.55 dBm	Auto Tu
29 7.4 .a) 60				Center Fr 824.000000 N
. 6	man and the state	wwwwww		Start Fr 823.000000 M
6 6 6				Stop F 825.000000 1
art 823.000 MHz	Å	Sto	p 825.000 MHz	CF S
es BW 200 kHz	#VBW 620 kHz		ms (1001 pts)	
es BW 200 kHz				Freq Off
tes BW 200 kHz	V A			200.000 i Auto h Freq Off 0 Scale Ty Log

DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_75_0_HighCH168300-841.5



DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_1_0_LowCH166800-834



DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_1_105_HighCH167800-839



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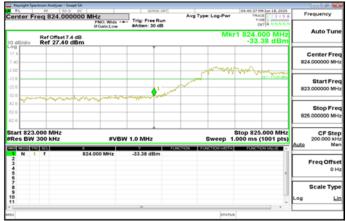
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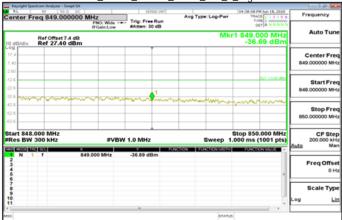
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DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_100_0_LowCH166800-834

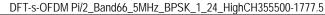






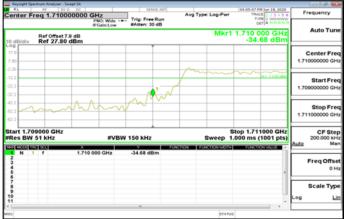
DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_1_0_LowCH342500-1712.5

Keysight Spectrum Analyzer - Swept SA			
Center Freq 1.710000000	GHz PNC: Wide Trig: Free Run	Avg Type: Log-Pwr TR4CE 1 2 3 4 5 TYPE A WWWW	
Ref Offset 7.8 dB 10 dB/div Ref 27.80 dBm	IF Gain:Low #Atten: 30 dB	Mkr1 1.710 000 GHz -28.51 dBm	Auto Tune
17.0 7.00 -2.20			Center Free 1.710000000 GH
-12.2 -22.2 -32.2			Start Free 1.709000000 GH
422 622 622	many 1		Stop Fre 1.711000000 GH
Start 1.709000 GHz #Res BW 51 kHz	#VBW 150 kHz	Stop 1.711000 GHz Sweep 1.000 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
	0 000 GHz -28.51 dBm		Freq Offse 0 H
7 8 9			Scale Type
10			Log Li
490		STATUS	





DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_25_0_LowCH342500-1712.5



DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_25_0_HighCH355500-1777.5



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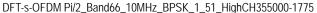
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Report No.: ER/2020/30085 Page 144 of 212

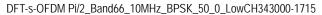


DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_1_0_LowCH343000-1715







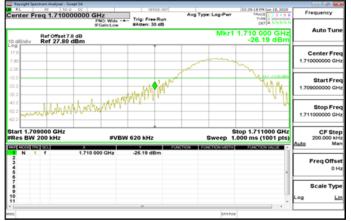




DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_50_0_HighCH355000-1775



DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_1_0_LowCH343500-1717.5



DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_1_78_HighCH354500-1772.5



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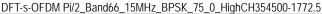
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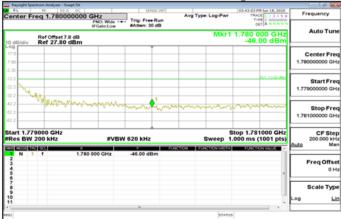
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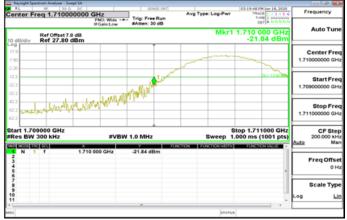
DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_75_0_LowCH343500-1717.5

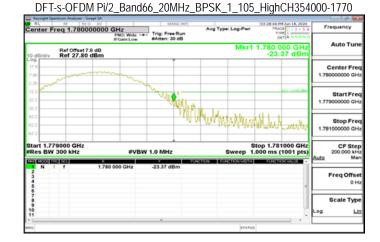




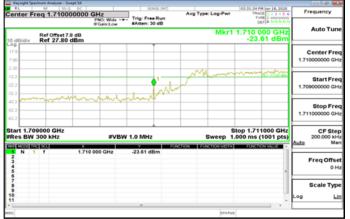


DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_1_0_LowCH344000-1720





DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_100_0_LowCH344000-1720



DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_100_0_HighCH354000-1770

						ectrum Analyzer - Swept SA	
Frequency	03:29:13 PH Jun 18, 2020 TRACE 1 2 3 4 5 6	pe: Log-Pwr		SENSCIN		req 1.78000000	enter Fr
	DET A NNNNN			#Atten: 30 dB	PNO: Wide		
Auto Tun	1.780 000 GHz -41.90 dBm	Mkr1				Ref Offset 7.8 dB Ref 27.80 dBm	0 dB/div
Center Fre							17.0
1.780000000 GH					_		.80
	01.1.13.00 dBrs						2.2
Start Fre 1.779000000 GH							2.2
						manum	2.2
Stop Fre				*****			2.2
1.781000000 GH							2.2
CF Ste 200.000 kH	top 1.781000 GHz 000 ms (1001 pts)	Success 1		1.0 MHz	#1/D1	79000 GHz 300 kHz	
Auto Ma			FUNCTION		#484		2 EXCOLU
				-41.90 dBm	0 000 GHz	1 f 1.7	
Freq Offse 0 H							3 4 6
Scale Typ							7
Log L							0
		STATUS					

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Member of SGS Group



DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_1_0_LowCH133147-665.5





DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_1_24_HighCH139100-695.5



DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_25_0_LowCH133100-665.5

Keysight Spectrum Analyzer - Swept SA					
Center Freq 663.000000	MHz PNC Wide	SENSE:INT	Avg Type: Log-Pwr	12:46:02 PH Jun 18, 2020 TRACE 1 2 3 4 5 6 TVPE 0 WWWWW	
Ref Offset 8 dB	IFGain:Low	#Atten: 30 dB	Mk	r1 663.000 MHz -34.82 dBm	Auto Tur
0 g 15 0 15 0 2 00			0		Center Fre 663.000000 Mi
2.0		1 N			Start Fr 662.000000 M
20 	hnh	~~~~~			Stop Fr 664.000000 M
tart 662.000 MHz Res BW 51 kHz	#VBW	150 kHz	Sweep	Stop 664.000 MHz 1.000 ms (1001 pts)	CF Str 200.000 k Auto M
	63.000 MHz	-34.82 dBm			Freq Offs 0
6 7 8 9					Scale Ty
0			STATU	0	

DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_25_0_HighCH139100-695.5



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_1_0_LowCH133600-668



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_1_51_HighCH138600-693



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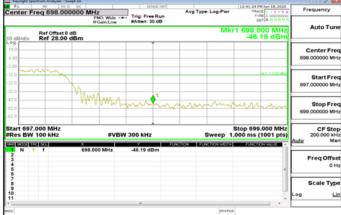
Report No.: ER/2020/30085 Page 147 of 212



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_50_0_LowCH133600-668







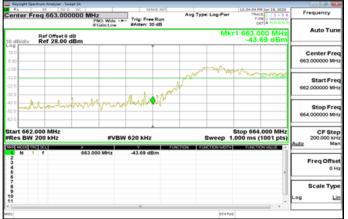
DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_1_0_LowCH134100-670.5



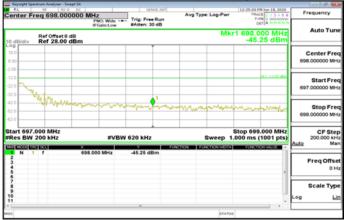
DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_1_78_HighCH138100-690.5



DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_75_0_LowCH134100-670.5



DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_75_0_HighCH138100-690.5



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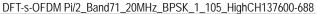
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DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_1_0_LowCH134600-673







DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_100_0_LowCH134600-673

Keysight Spectrum Analyzer - Swept SA			
enter Freq 663.000000 I		Avg Type: Log-Pwr TRACE	Frequency
Ref Offset 8 dB	PNO: Wide Trig: Free Run IFGein:Low #Atten: 30 dB	Mkr1 663.000 N -40.15 d	Auto Tu
		Ame -	Center Fr 663.000000 M
		when when	Start Fr 662.000000 N
0 	daddaan ahaalaa ah		Stop F 664.000000 M
art 662.000 MHz tes BW 300 kHz	#VBW 1.0 MHz	Stop 664.000 Sweep 1.000 ms (1001	pts) 200.000
	33.000 MHz -40.15 dBm		Freq Off
			Scale Ty
1		STATUS	, Log

DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_100_0_HighCH137600-688



CP-OFDM_Band2_5MHz_QPSK_1_0_LowCH370500-1852.5



CP-OFDM_Band2_5MHz_QPSK_1_24_HighCH381500-1907.5



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