

12.8 Occupied bandwidth – 99% emission bandwidth

Description:

Measurement of the 99% bandwidth of the modulated signal acc. RSS-GEN.

Measurement:

Measurement parameter	
According to: KDB789033 D02, D.	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	300 kHz / 500 kHz
Video bandwidth:	1 MHz / 3 MHz
Span:	50 MHz / 100 MHz
Measurement procedure:	Measurement of the 99% bandwidth using the integration function of the analyzer
Trace-Mode:	Max hold (allow trace to stabilize)
Used test setup:	see chapter 7.4 – A
Measurement uncertainty:	see chapter 9

Usage:

-/-	IC
Occupied Bandwidth – 99% emission bandwidth	
OBW is necessary for Emission Designator	

Result: antenna port 1

OFDM / a – mode Channel	99% bandwidth [kHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
	16933	16883	16983	16933
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	16983	17033	16933	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	16933	16983	16983	16933

OFDM / n HT20 – mode Channel	99% bandwidth [kHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
	18032	17982	17982	18032
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	17982	17982	17982	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	17982	18082	18082	18032

OFDM / n HT40 – mode Channel	99% bandwidth [kHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
	36763	36763	36863	36663
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	36863	36763	36763	36863
Channel	5755 MHz	5795 MHz	-/-	-/-
	36763	36863	-/-	-/-

Result: antenna port 2

OFDM / a – mode Channel	99% bandwidth [kHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
	16983	16983	16883	16983
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	16883	16883	16933	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	16933	16933	16883	16883

OFDM / n HT20 – mode Channel	99% bandwidth [kHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
	17982	18032	18032	17982
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	18032	17932	18032	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	18032	18032	17982	17982

OFDM / n HT40 – mode Channel	99% bandwidth [kHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
	36763	36763	36763	36763
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	36863	36663	36763	36763
Channel	5755 MHz	5795 MHz	-/-	-/-
	36663	36763	-/-	-/-

Result: antenna port 3

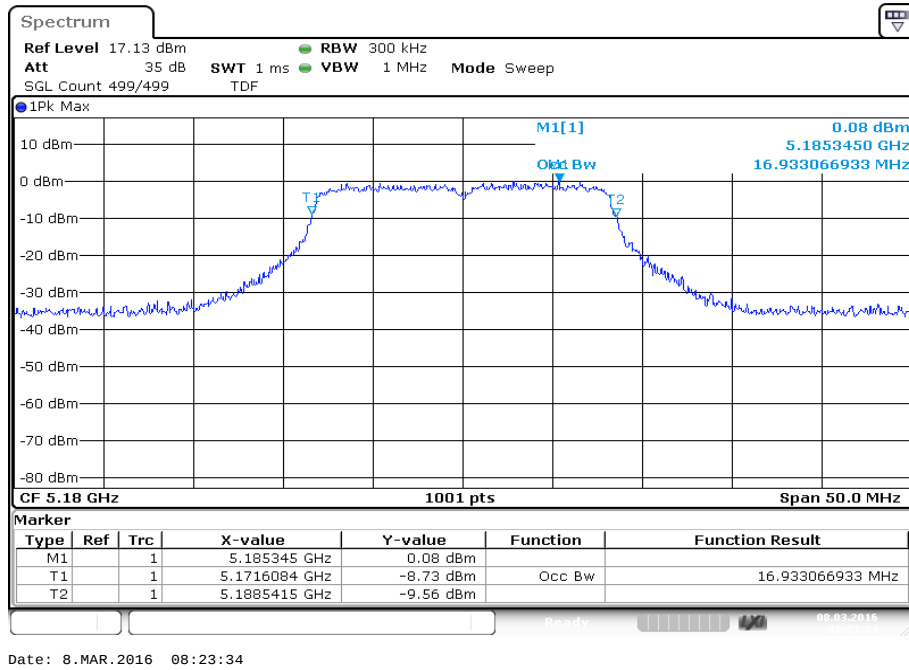
OFDM / a – mode Channel	99% bandwidth [kHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
	16933	16933	16933	16933
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	16883	16933	16983	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	16933	16933	16983	16883

OFDM / n HT20 – mode Channel	99% bandwidth [kHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
	17982	17982	17982	18032
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	18032	18032	18032	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	18032	18032	18032	18032

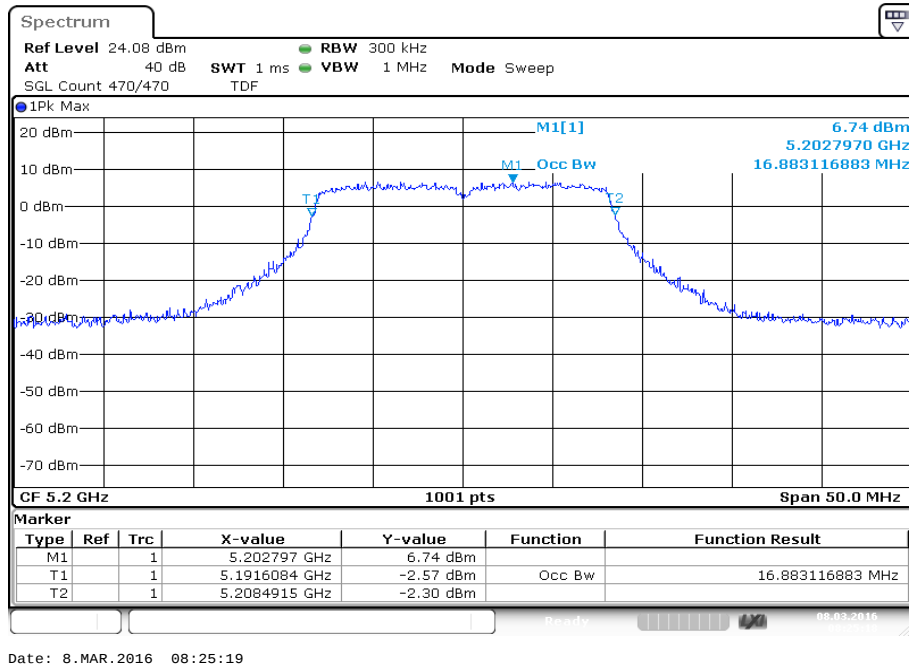
OFDM / n HT40 – mode Channel	99% bandwidth [kHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
	36763	36663	36663	36663
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	36863	36863	36763	36863
Channel	5755 MHz	5795 MHz	-/-	-/-
	36863	36663	-/-	-/-

Plots: OFDM / a – mode, antenna port 1

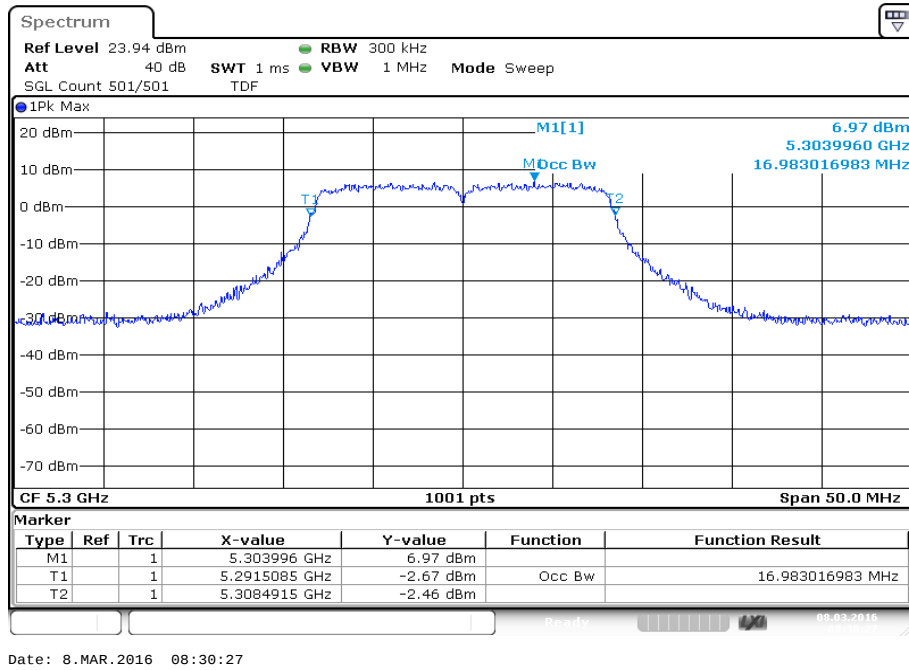
Plot 1: 5180 MHz



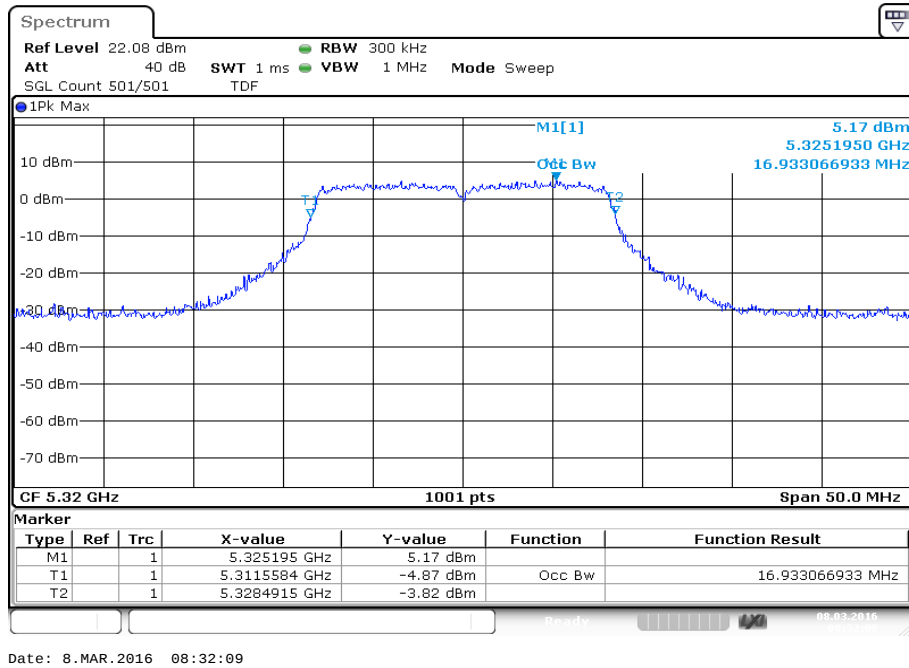
Plot 2: 5200 MHz



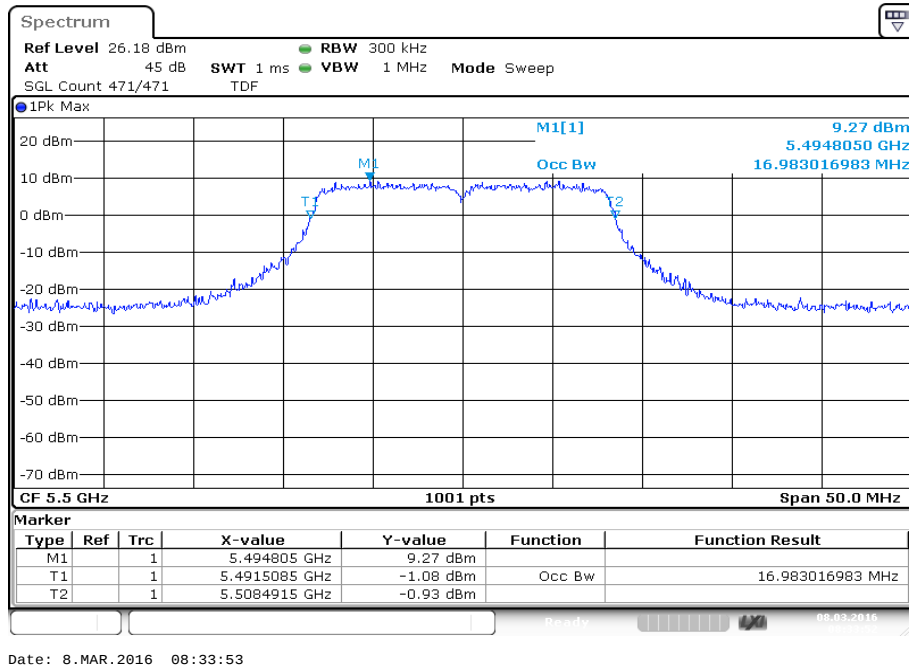
Plot 3: 5300 MHz



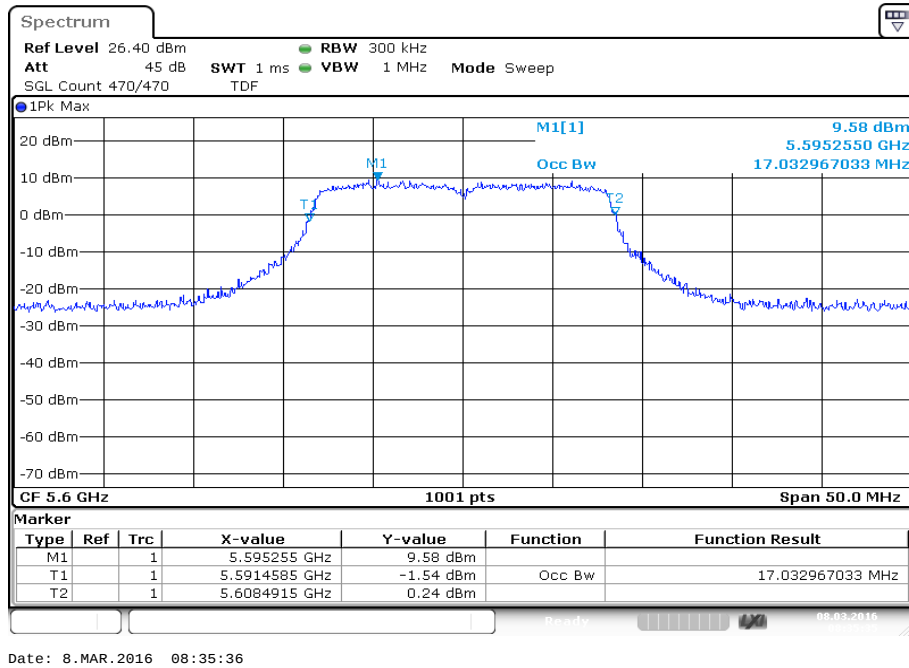
Plot 4: 5320 MHz



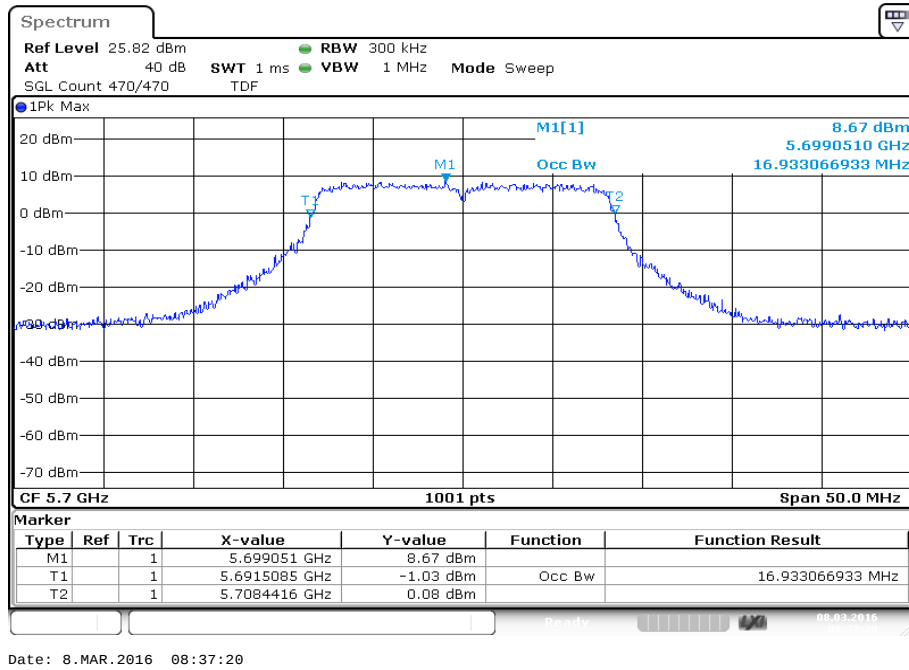
Plot 5: 5500 MHz



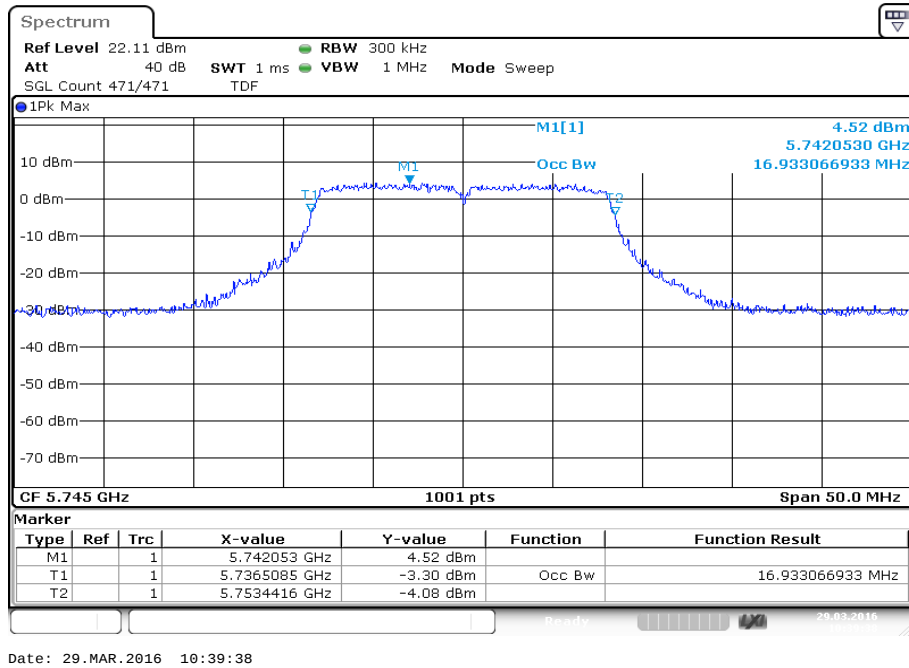
Plot 6: 5600 MHz



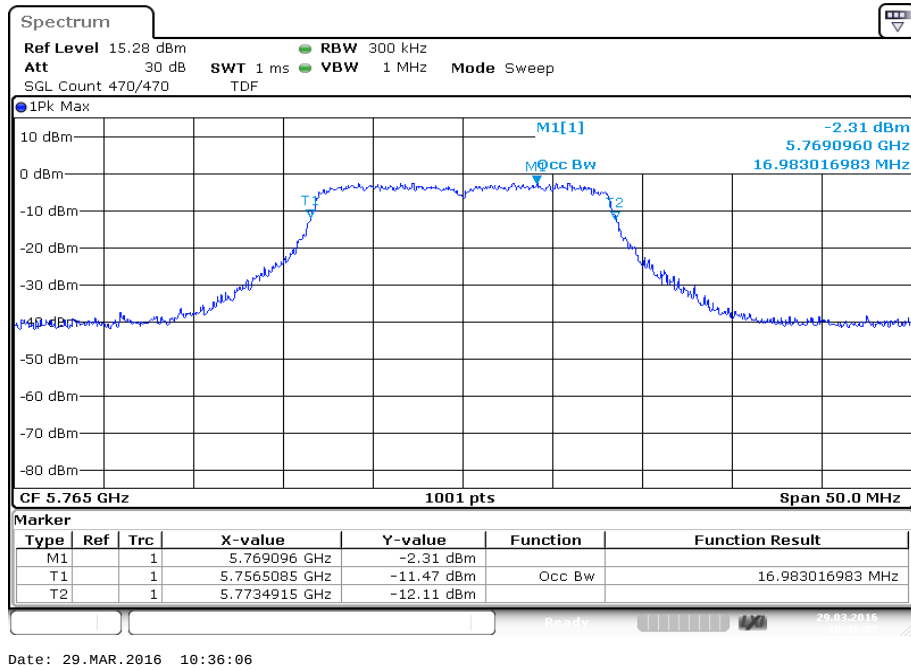
Plot 7: 5700 MHz



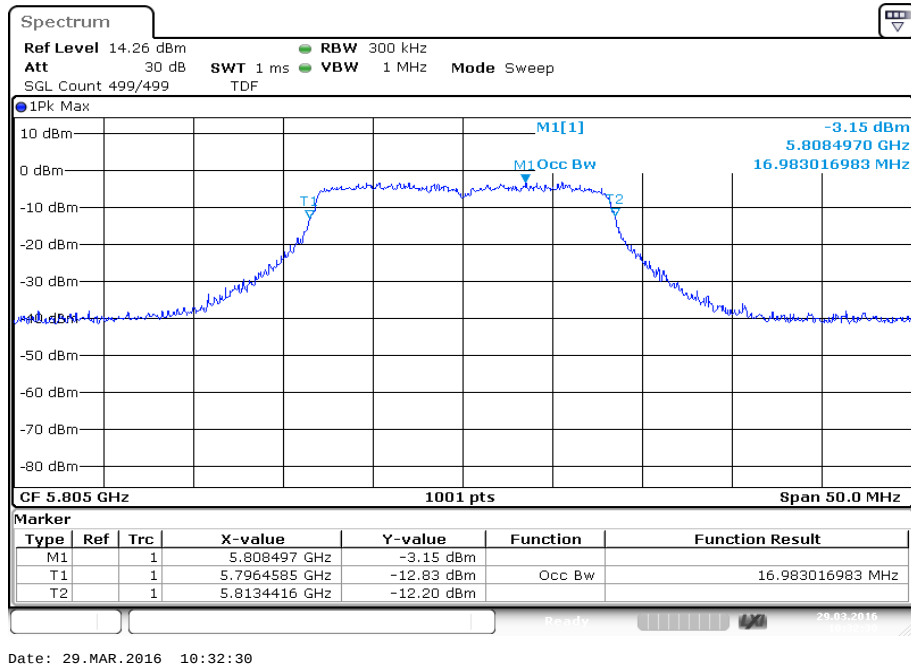
Plot 8: 5745 MHz



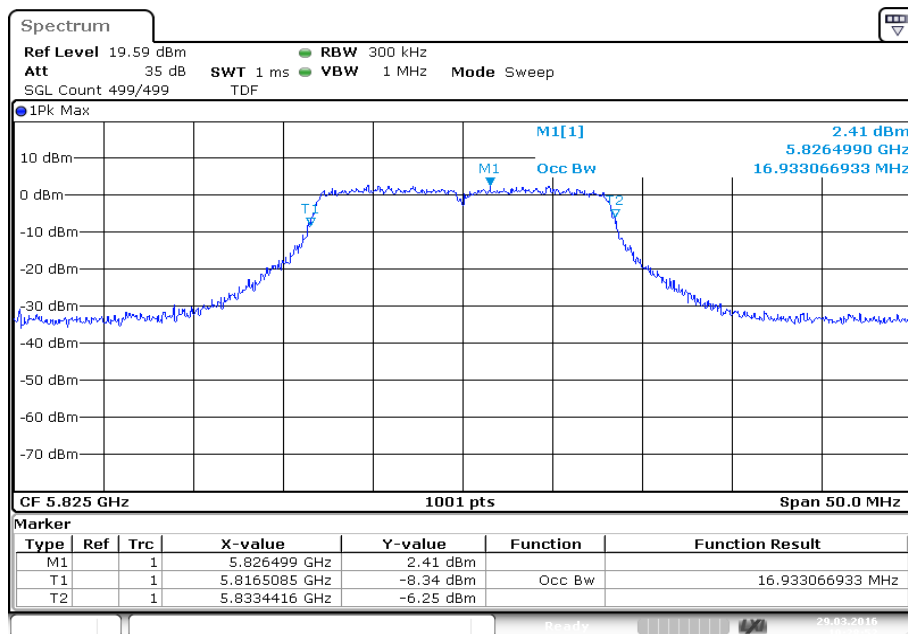
Plot 9: 5765 MHz



Plot 10: 5805 MHz



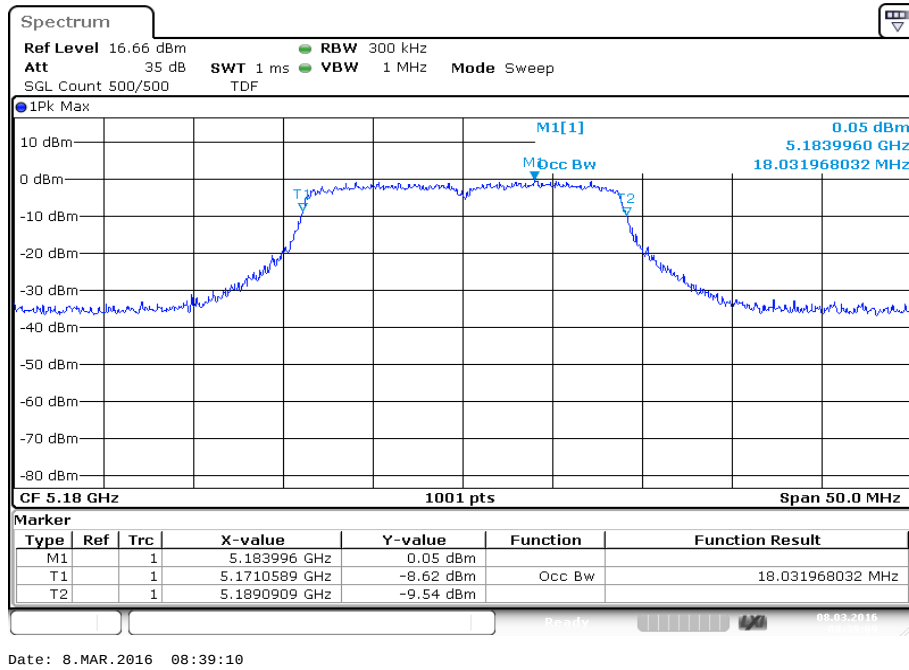
Plot 11: 5825 MHz



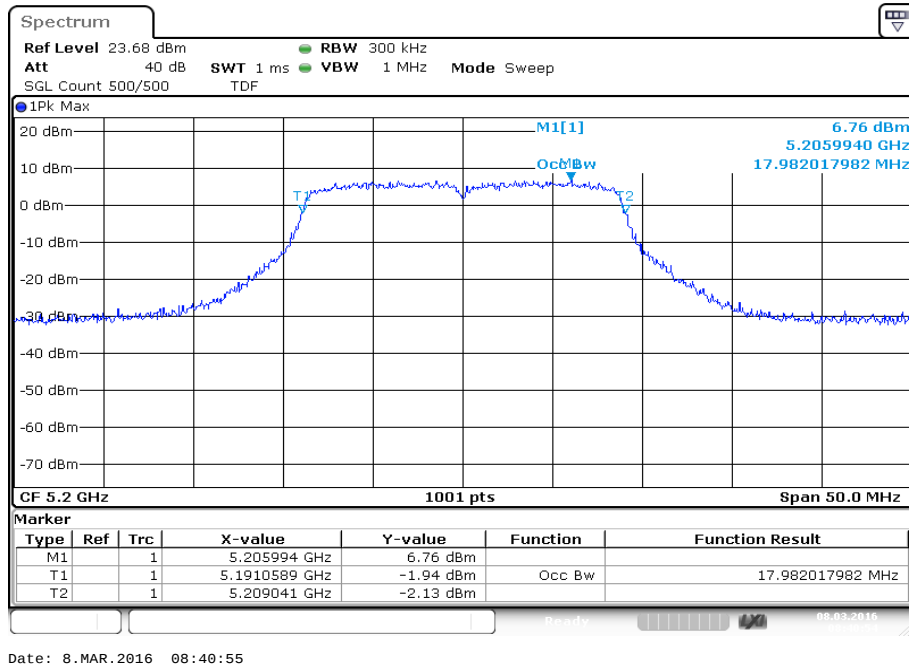
Date: 29.MAR.2016 10:28:53

Plots: OFDM / n HT20 – mode, antenna port 1

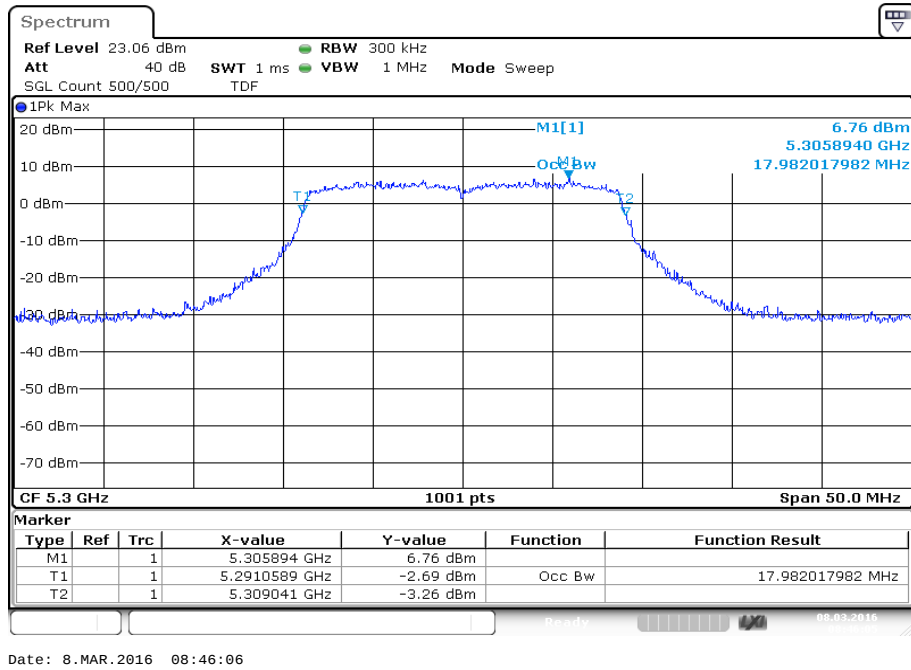
Plot 1: 5180 MHz



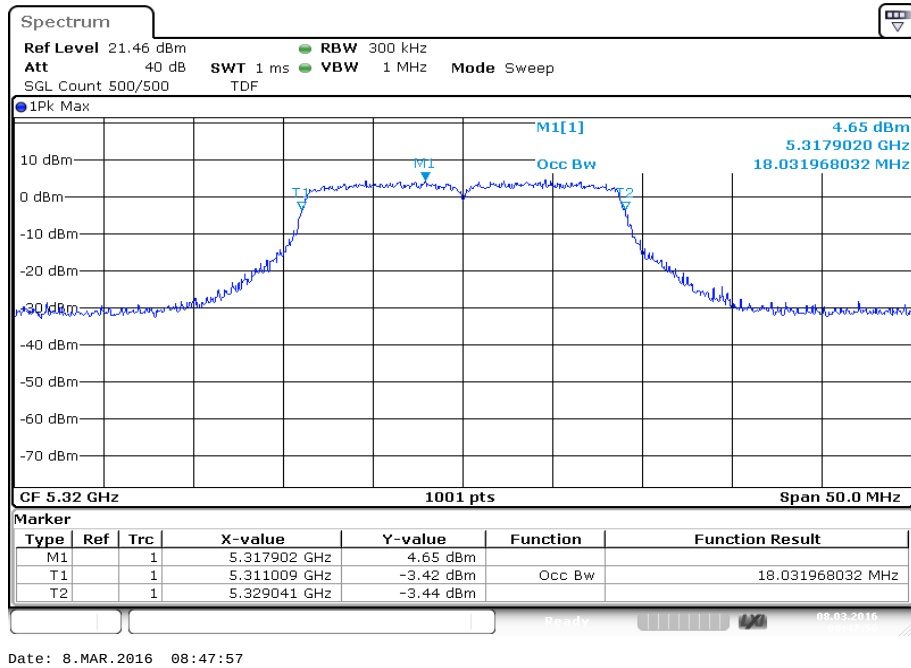
Plot 2: 5200 MHz



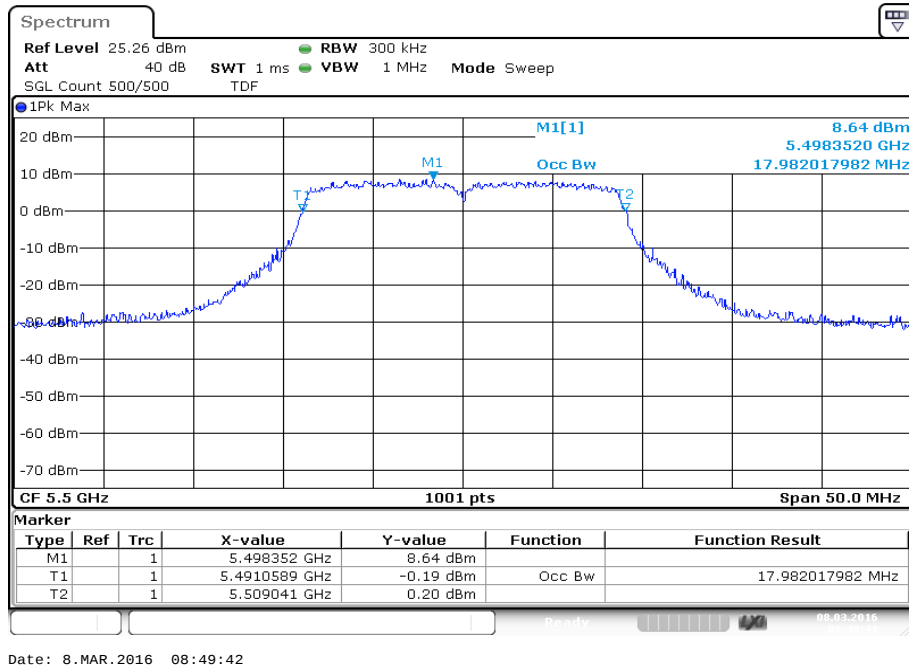
Plot 3: 5300 MHz



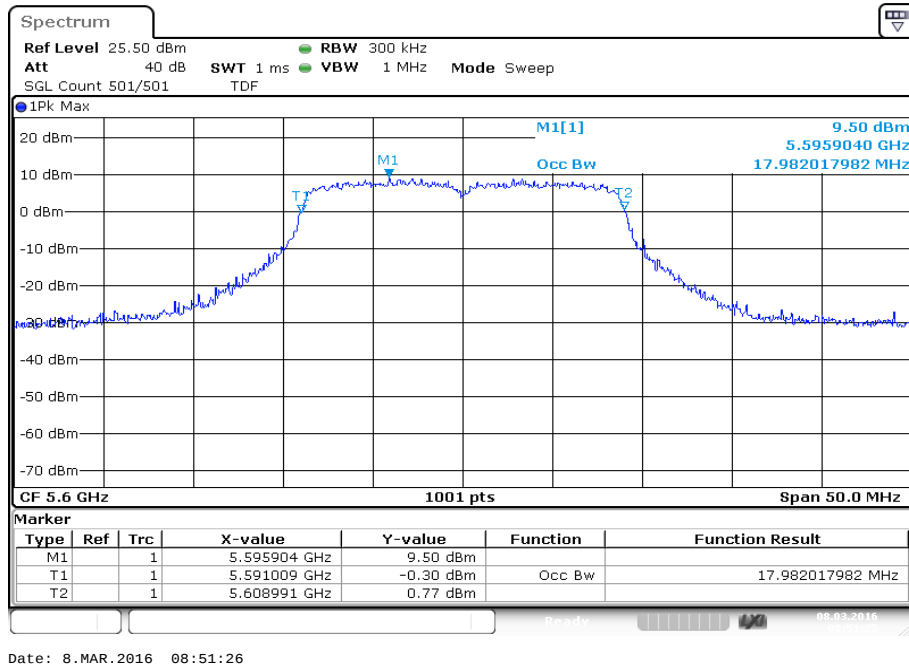
Plot 4: 5320 MHz



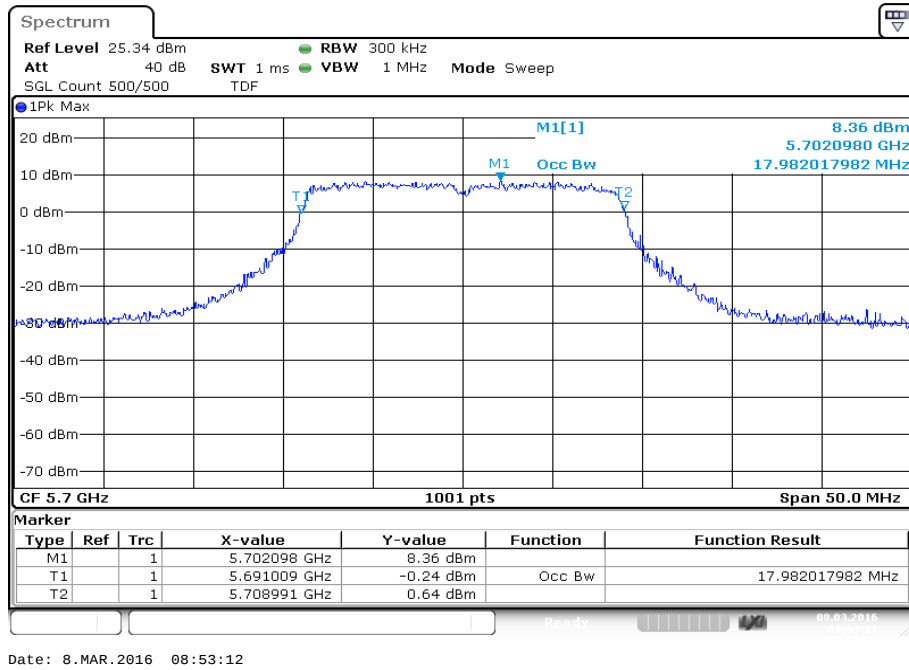
Plot 5: 5500 MHz



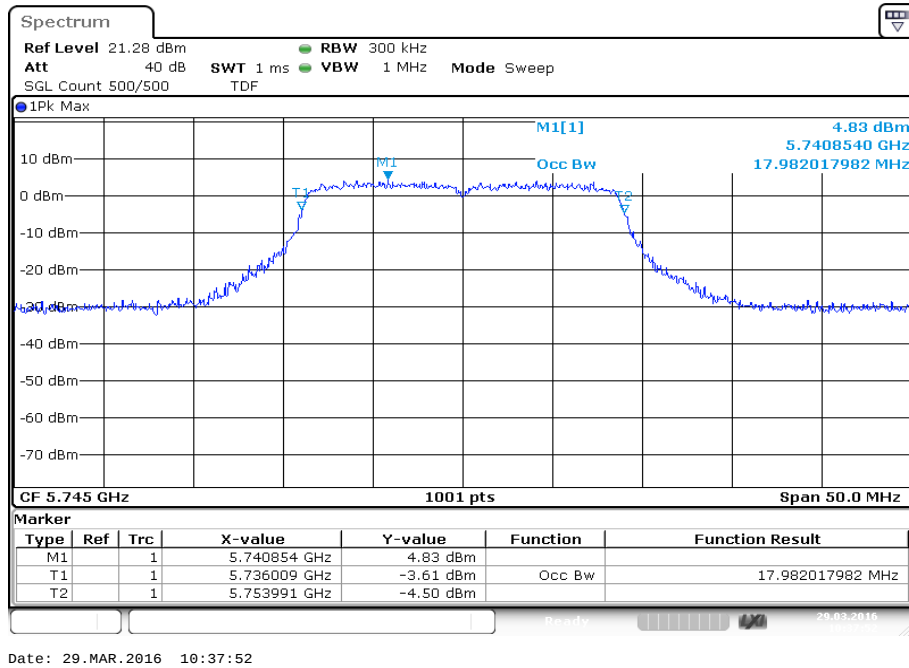
Plot 6: 5600 MHz



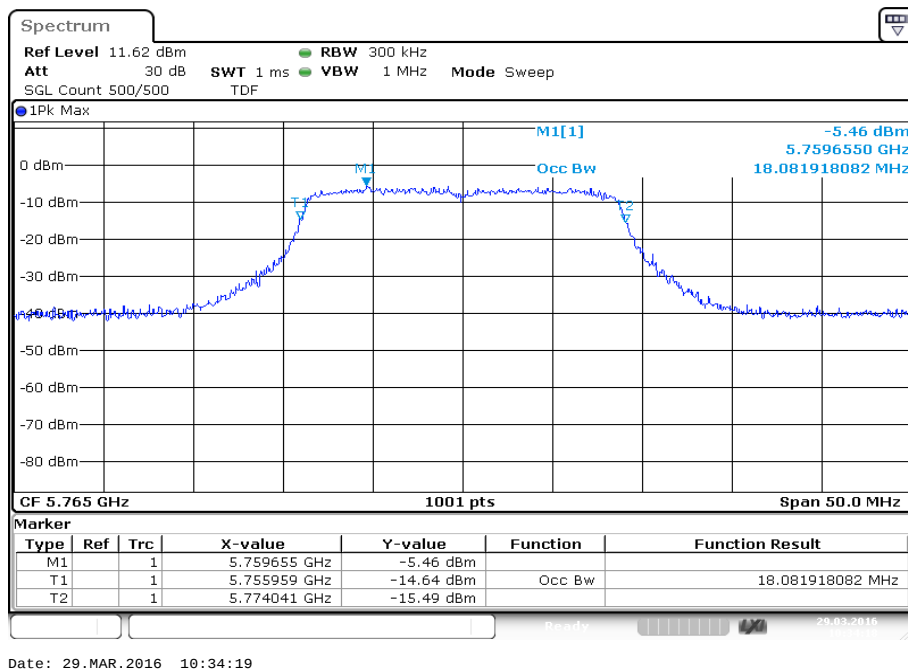
Plot 7: 5700 MHz



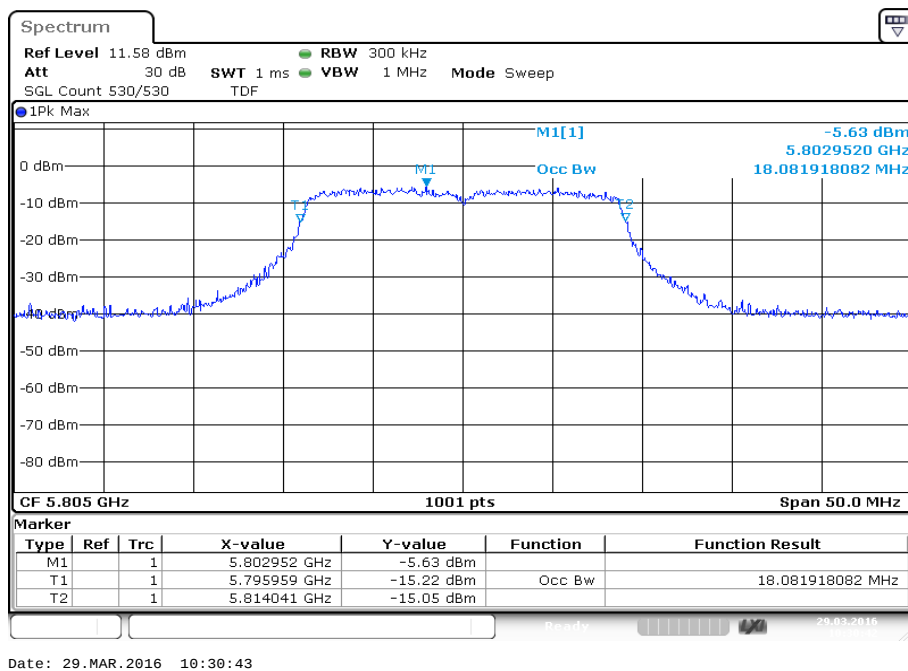
Plot 8: 5745 MHz



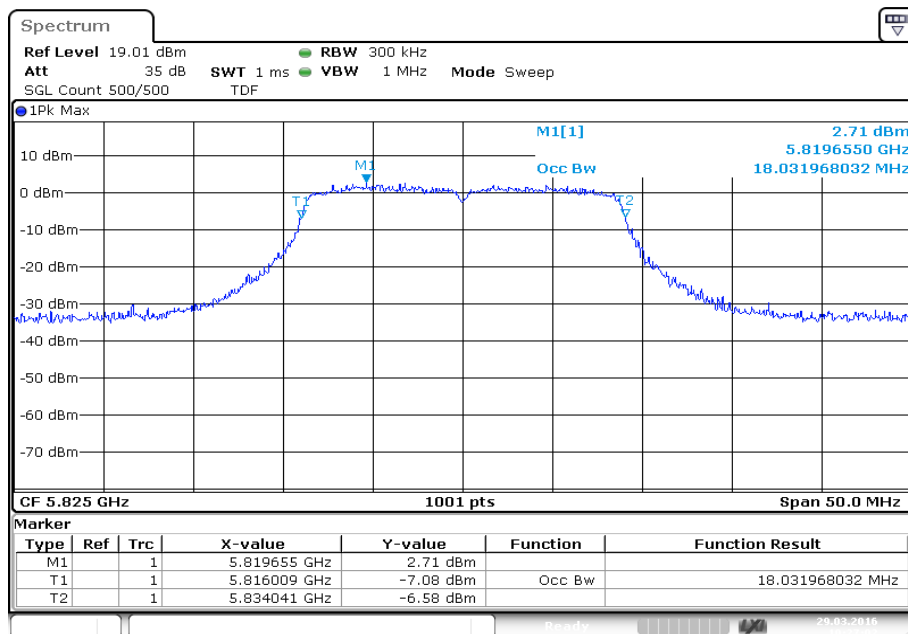
Plot 9: 5765 MHz



Plot 10: 5805 MHz



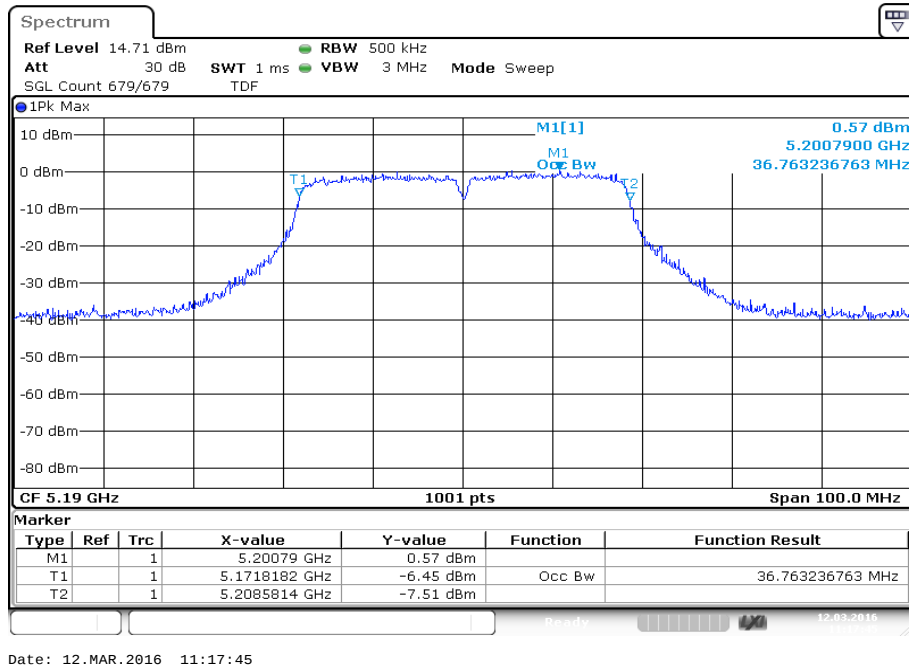
Plot 11: 5825 MHz



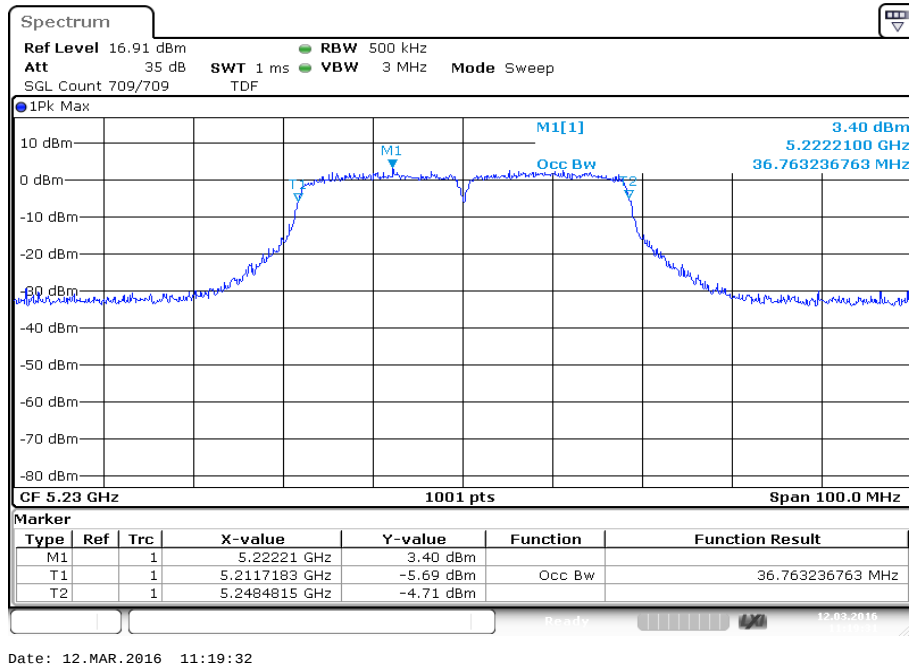
Date: 29.MAR.2016 10:27:03

Plots: OFDM / n HT40 – mode, antenna port 1

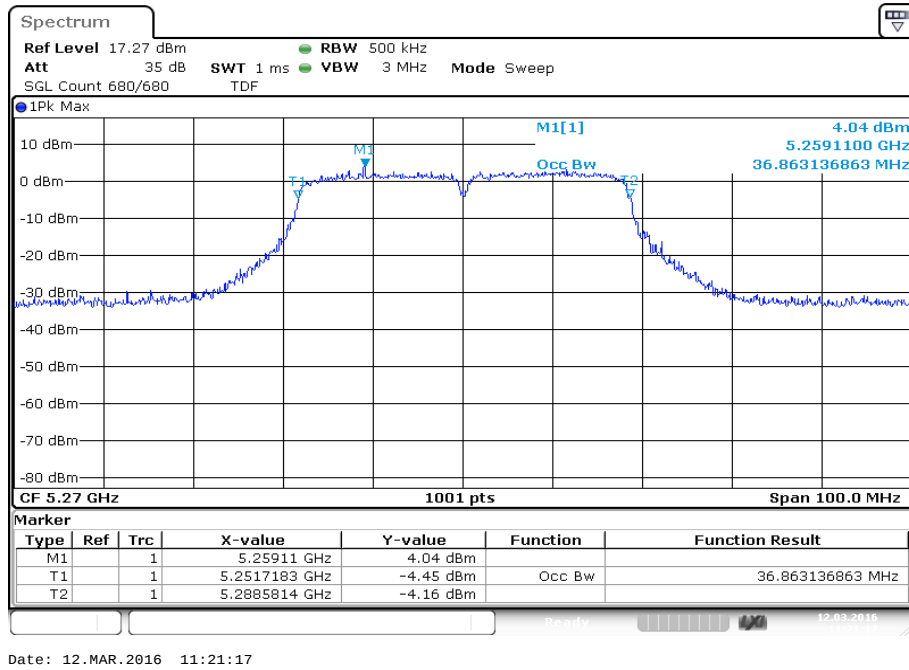
Plot 1: 5190 MHz



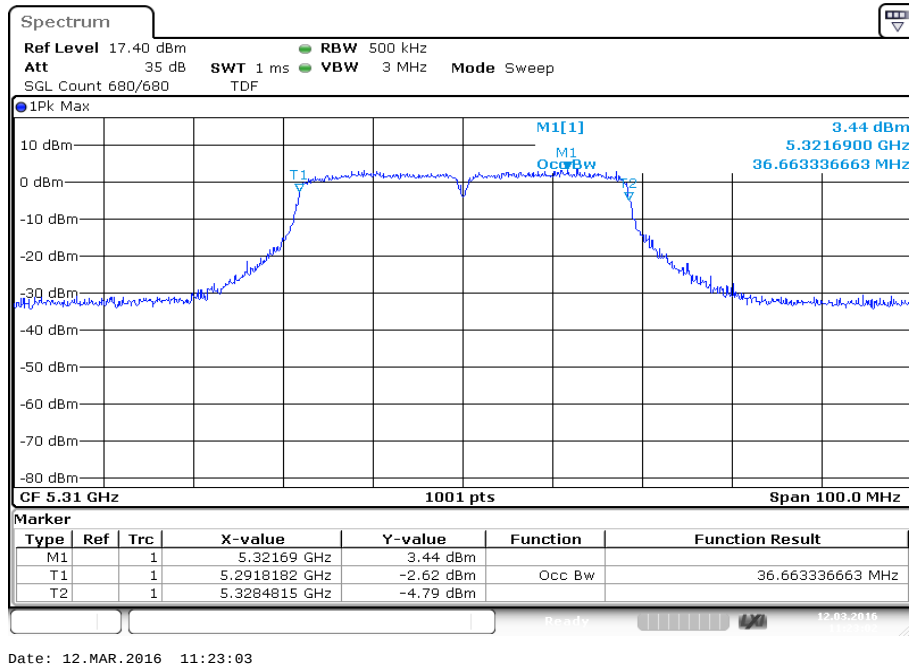
Plot 2: 5230 MHz



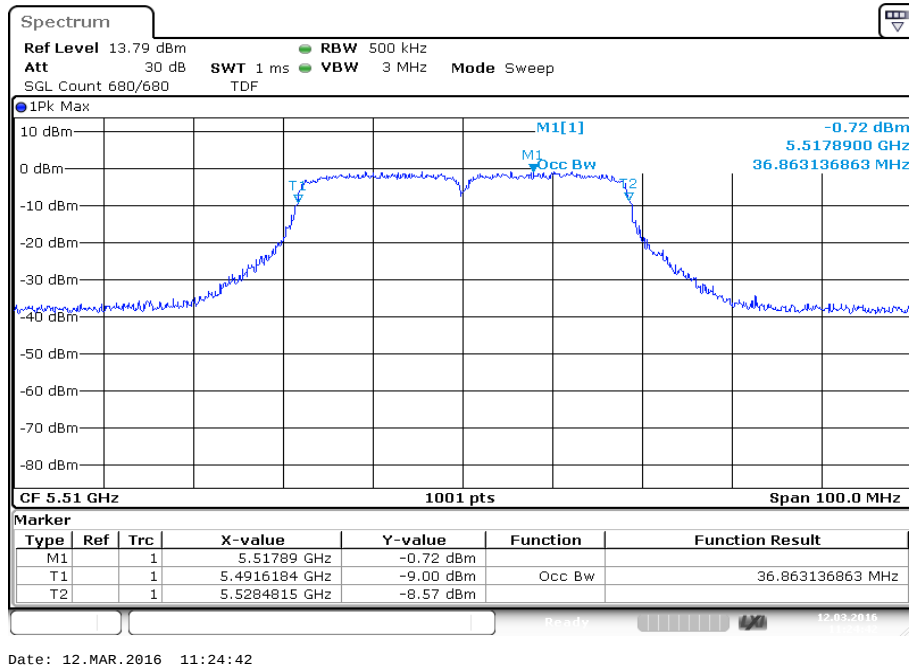
Plot 3: 5270 MHz



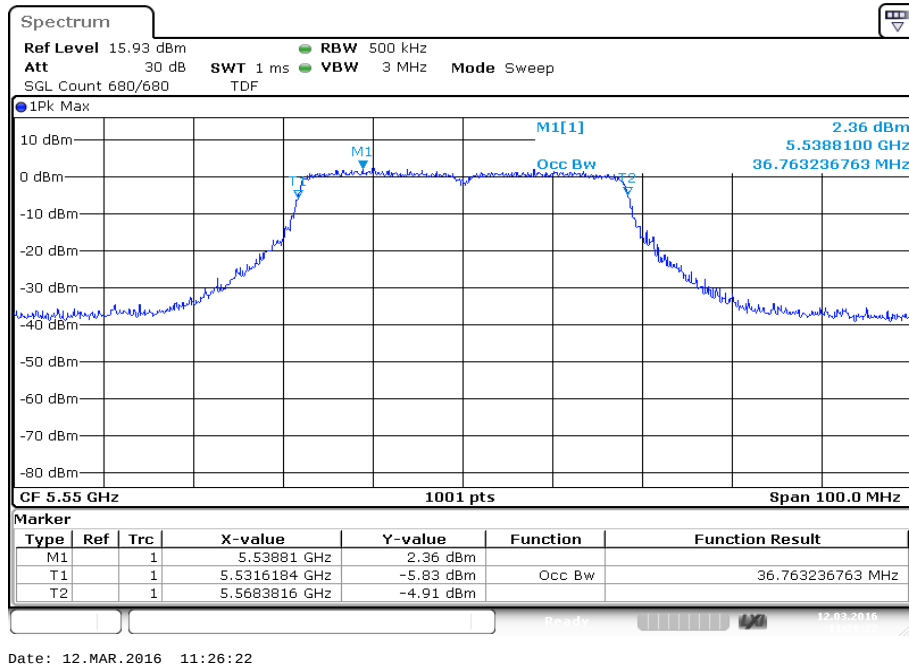
Plot 4: 5310 MHz



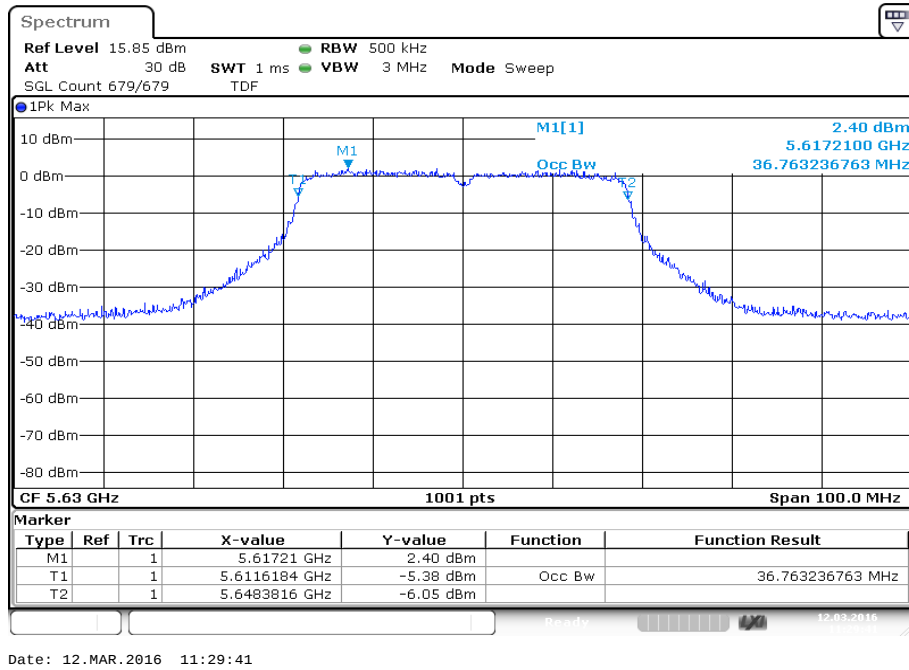
Plot 5: 5510 MHz



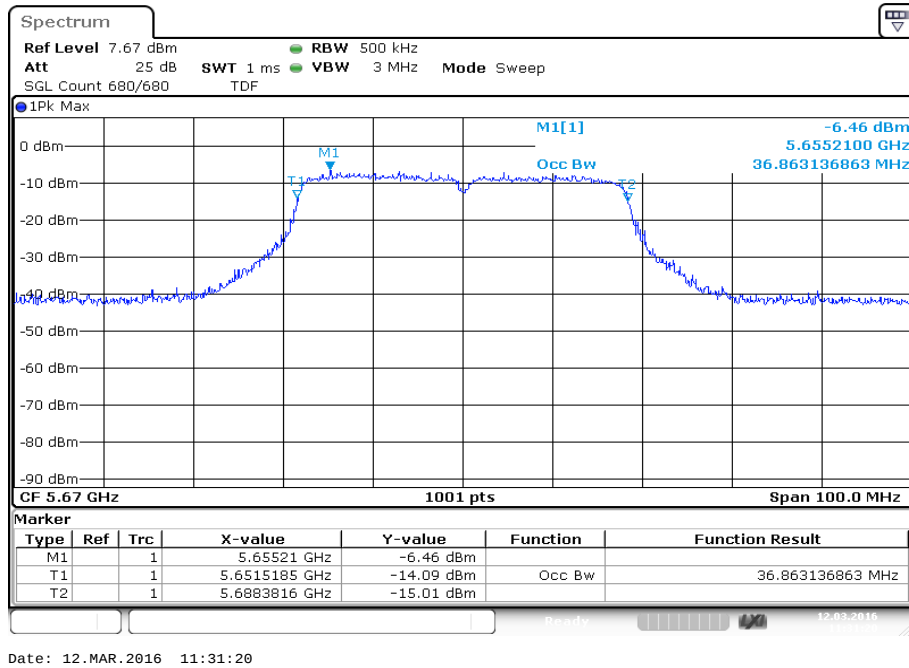
Plot 6: 5550 MHz



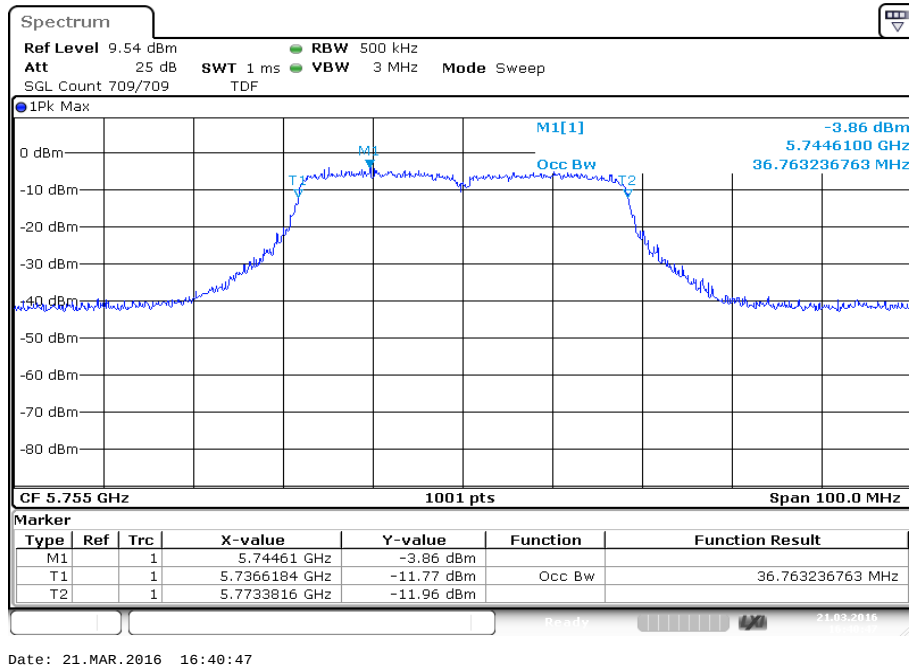
Plot 7: 5630 MHz



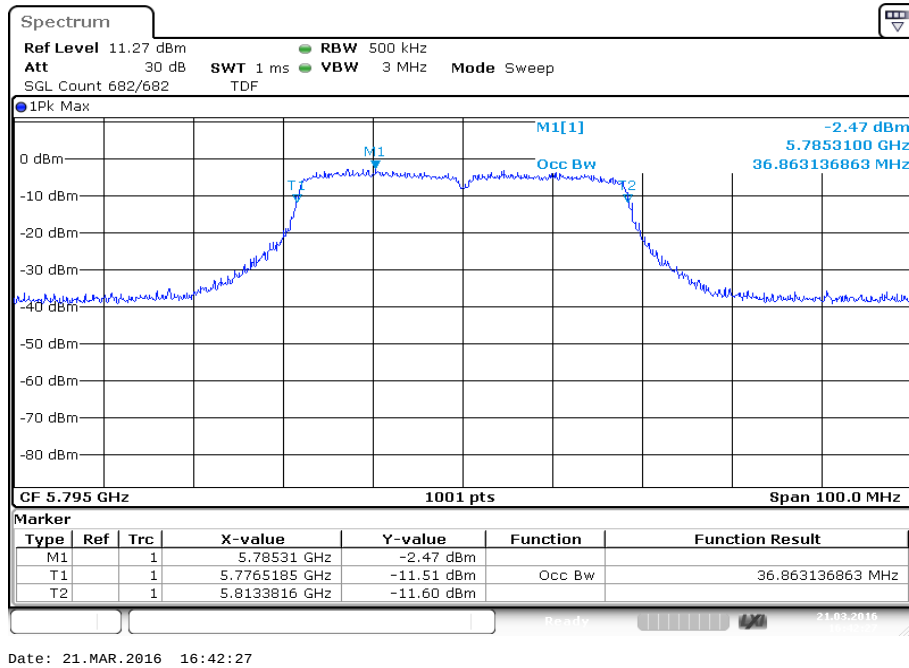
Plot 8: 5670 MHz



Plot 9: 5755 MHz

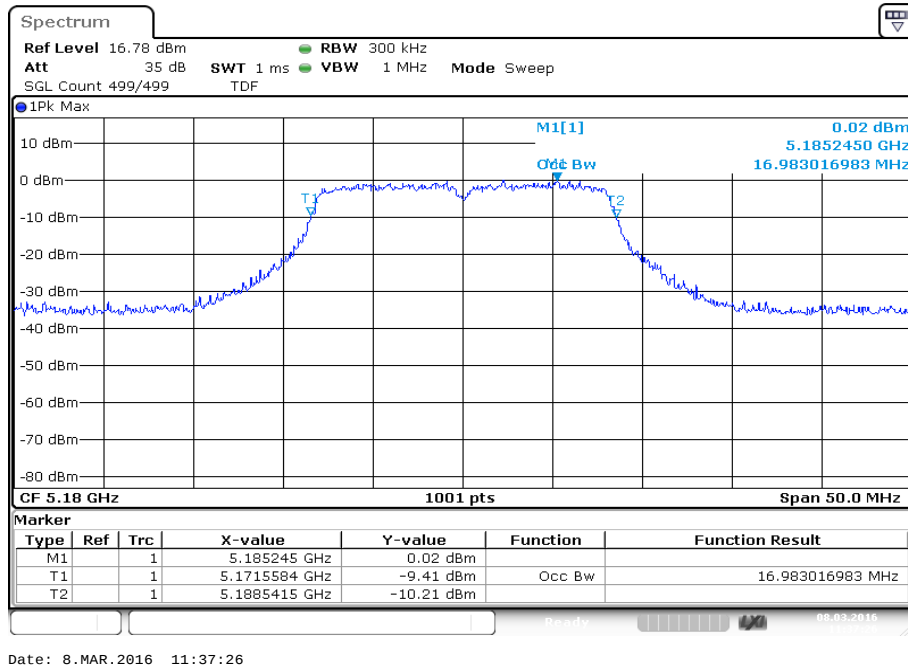


Plot 10: 5795 MHz

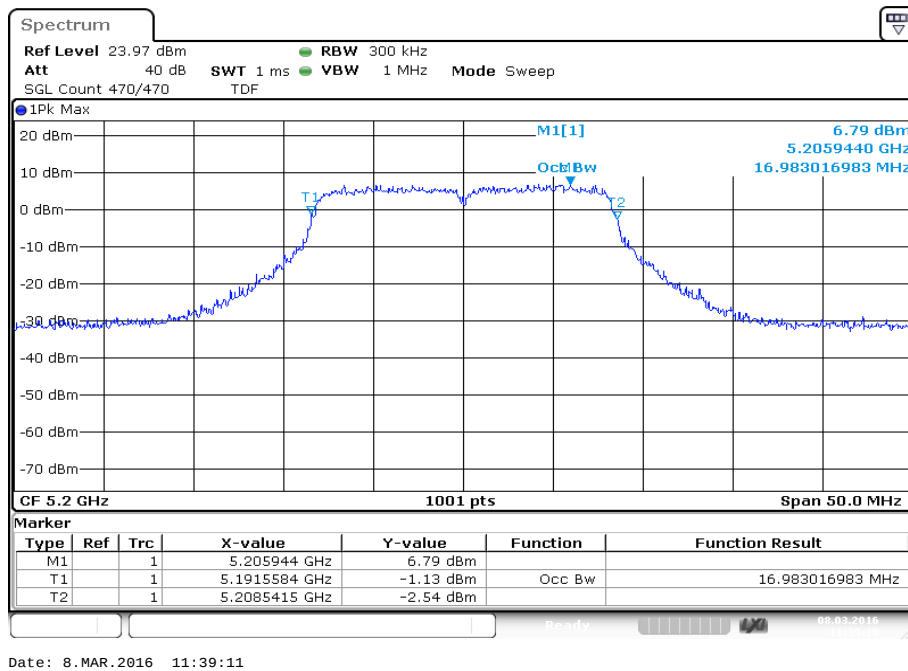


Plots: OFDM / a – mode, antenna port 2

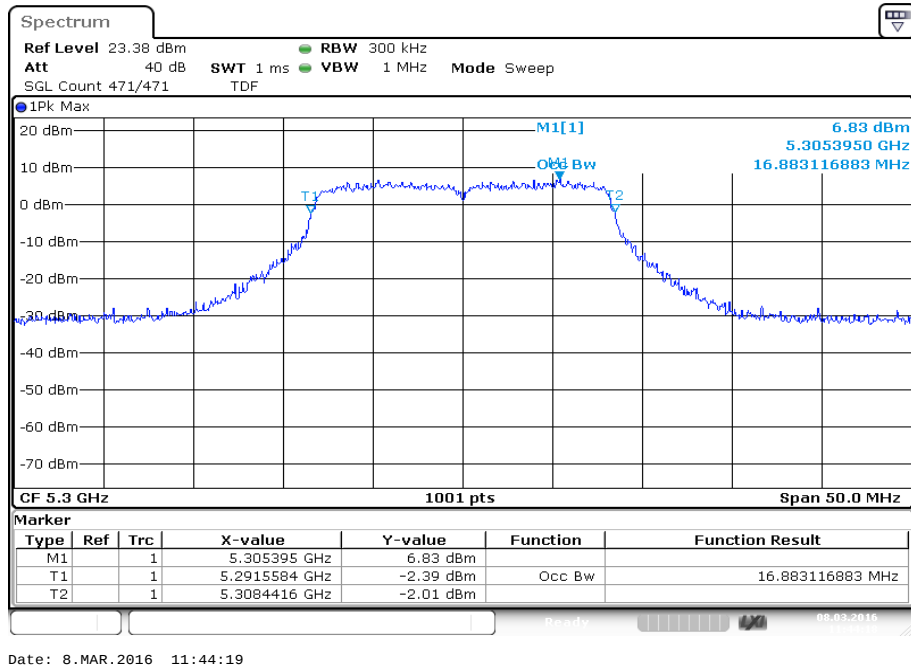
Plot 1: 5180 MHz



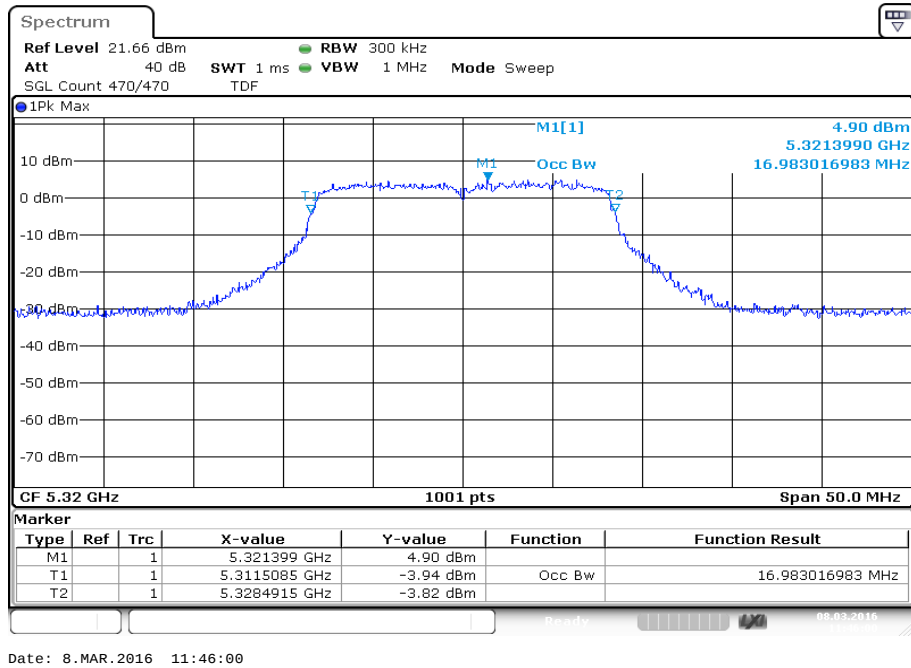
Plot 2: 5200 MHz



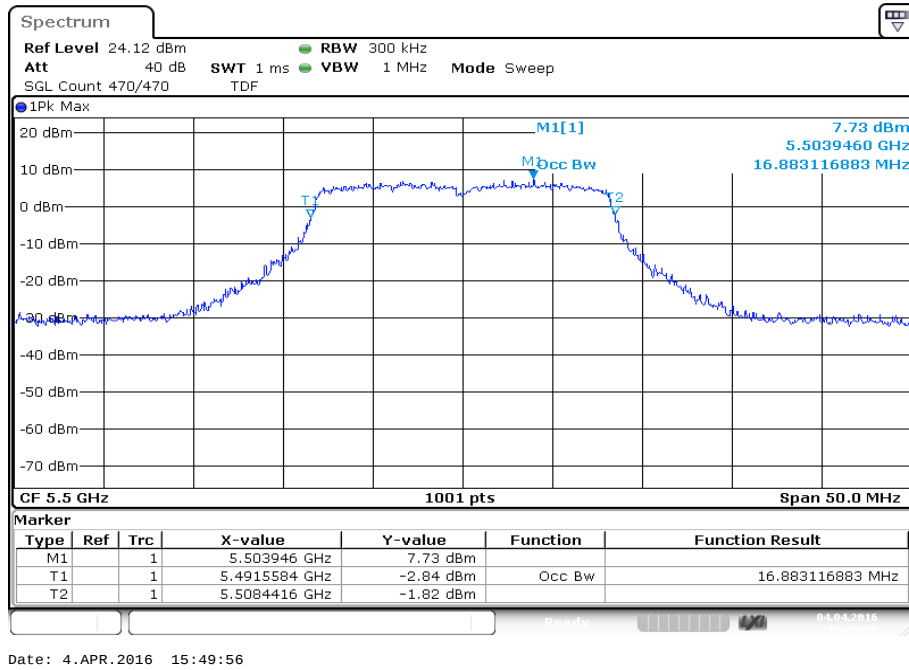
Plot 3: 5300 MHz



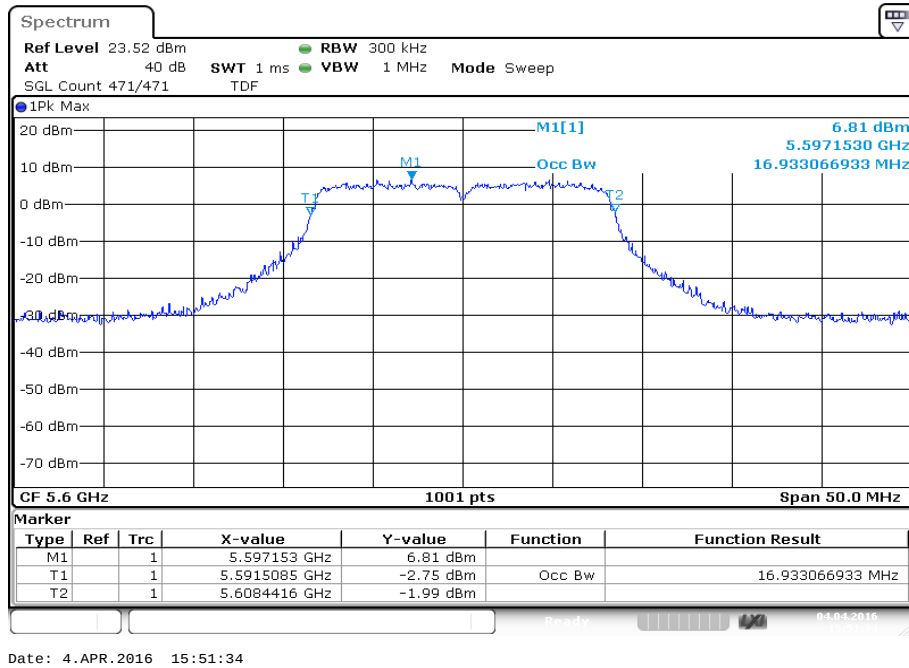
Plot 4: 5320 MHz



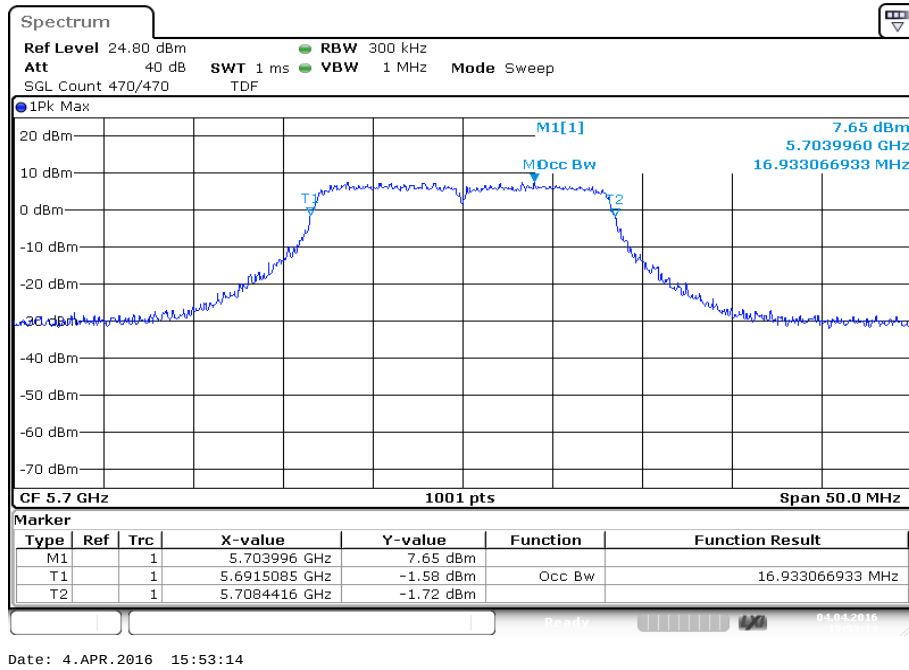
Plot 5: 5500 MHz



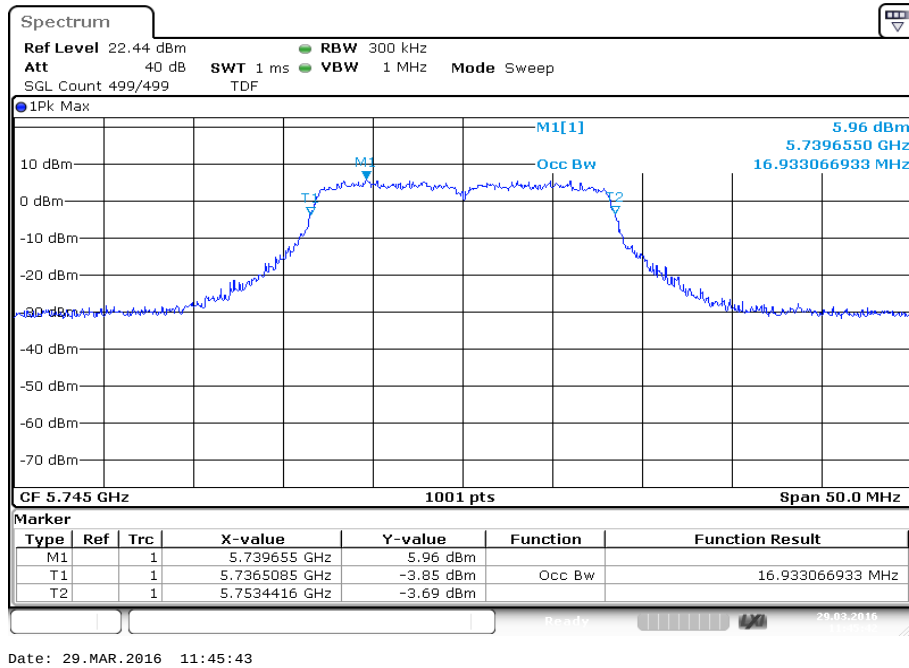
Plot 6: 5600 MHz



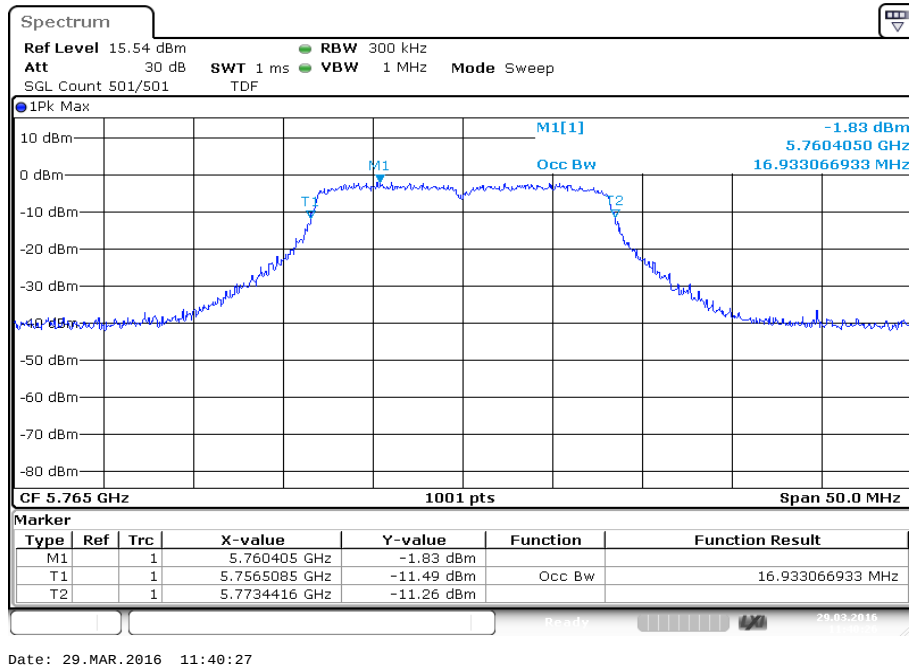
Plot 7: 5700 MHz



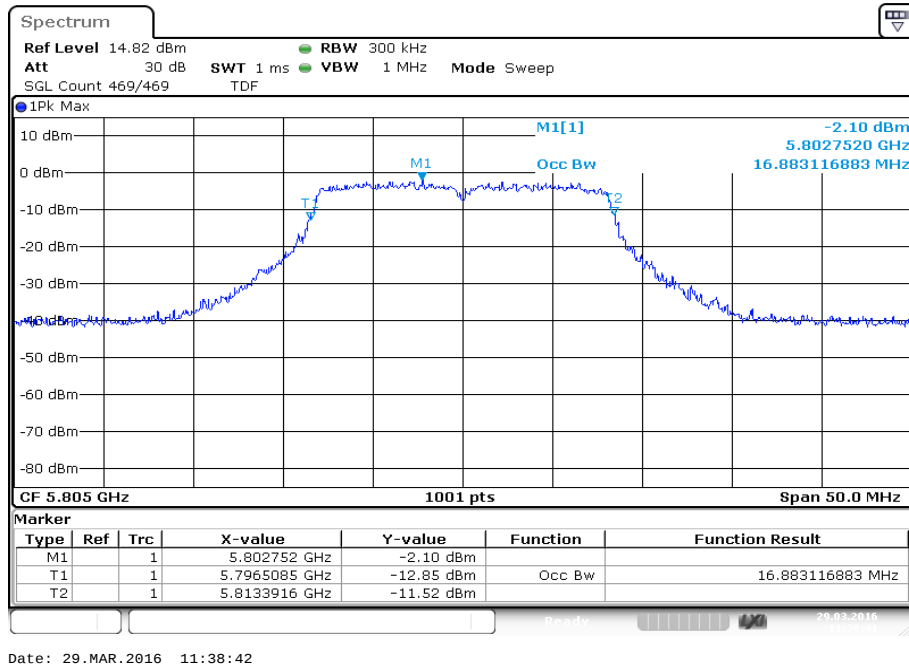
Plot 8: 5745 MHz



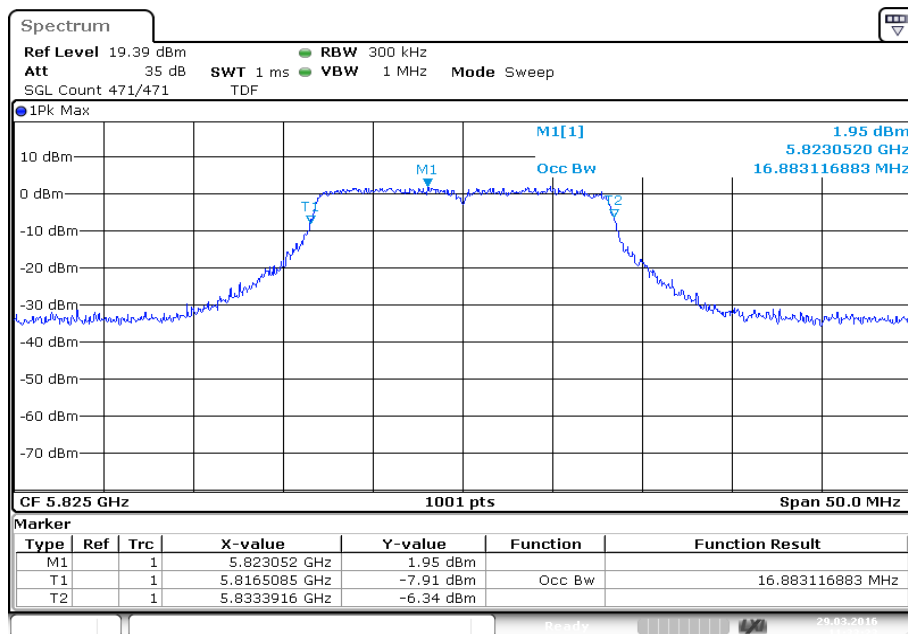
Plot 9: 5765 MHz



Plot 10: 5805 MHz



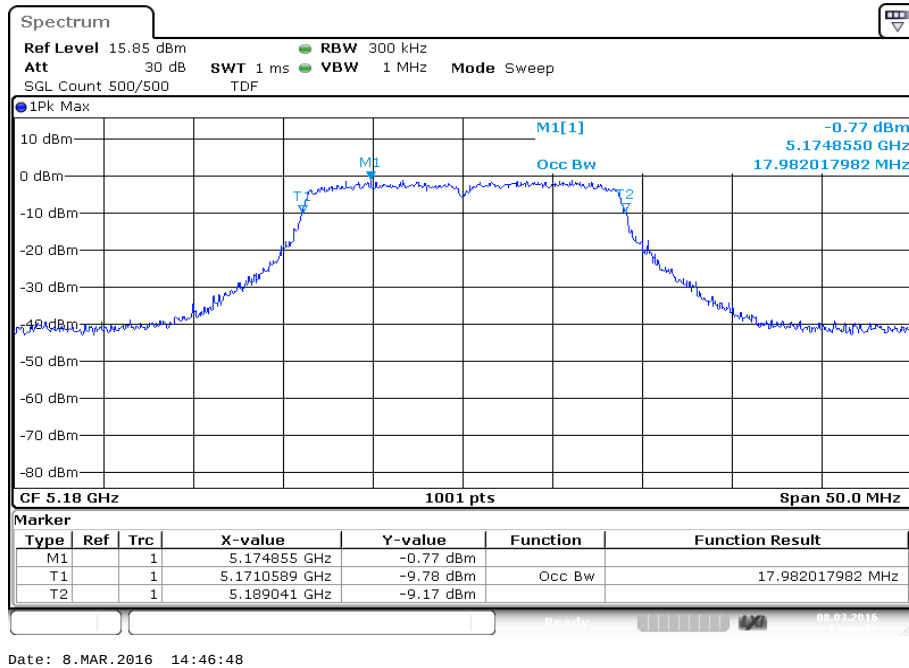
Plot 11: 5825 MHz



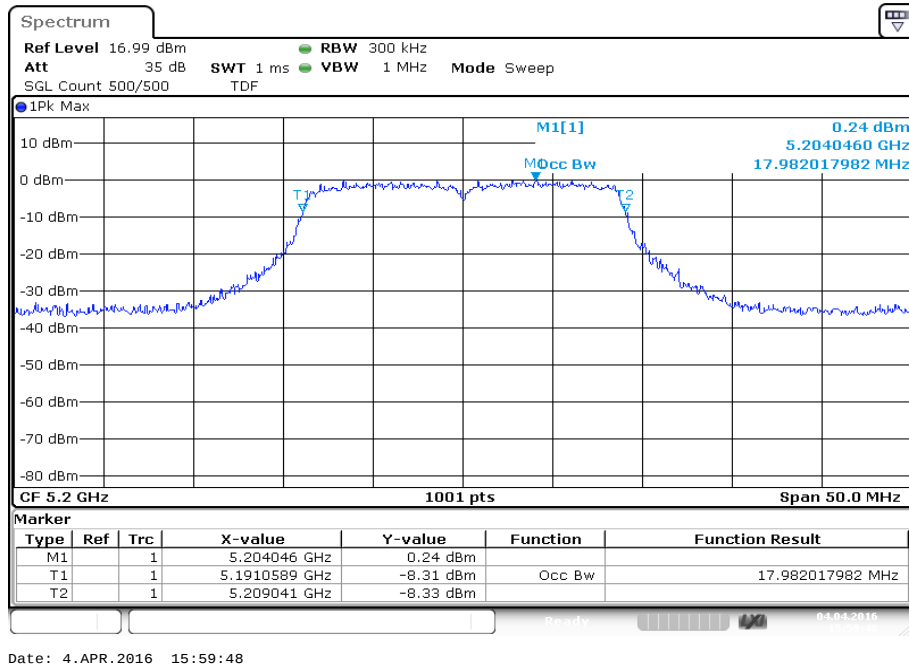
Date: 29.MAR.2016 11:33:24

Plots: OFDM / n HT20 – mode, antenna port 2

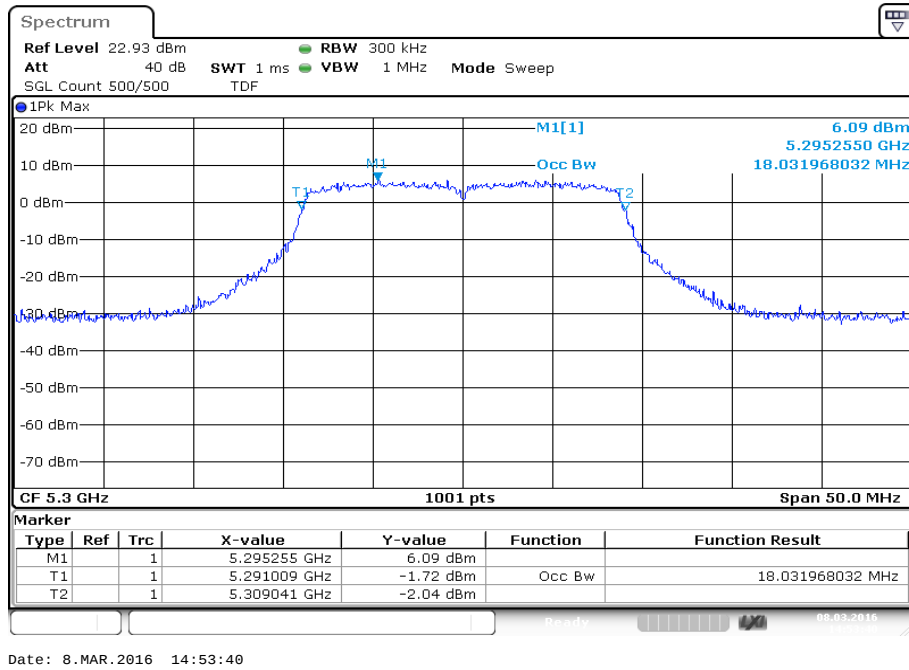
Plot 1: 5180 MHz



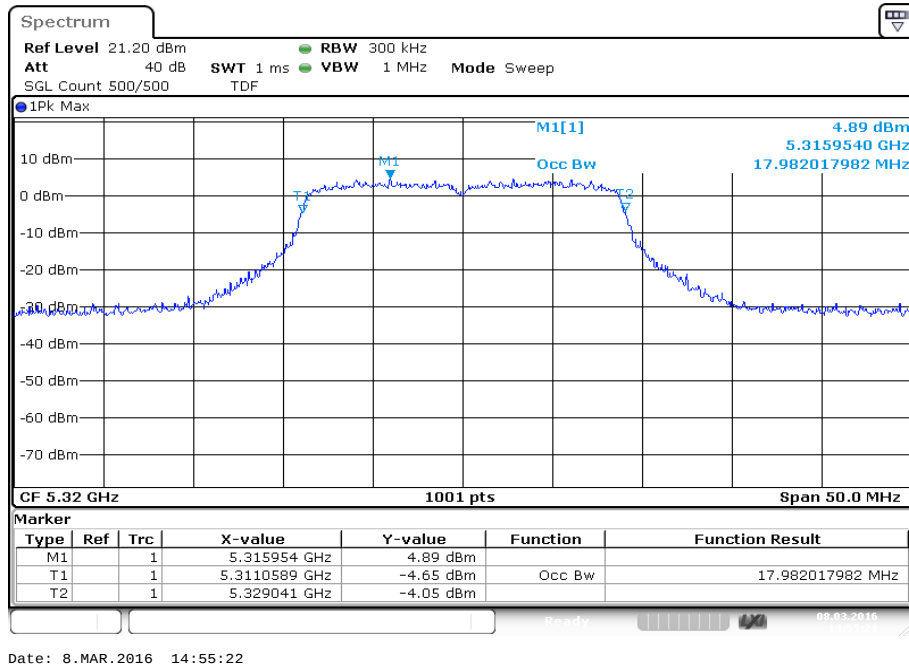
Plot 2: 5200 MHz



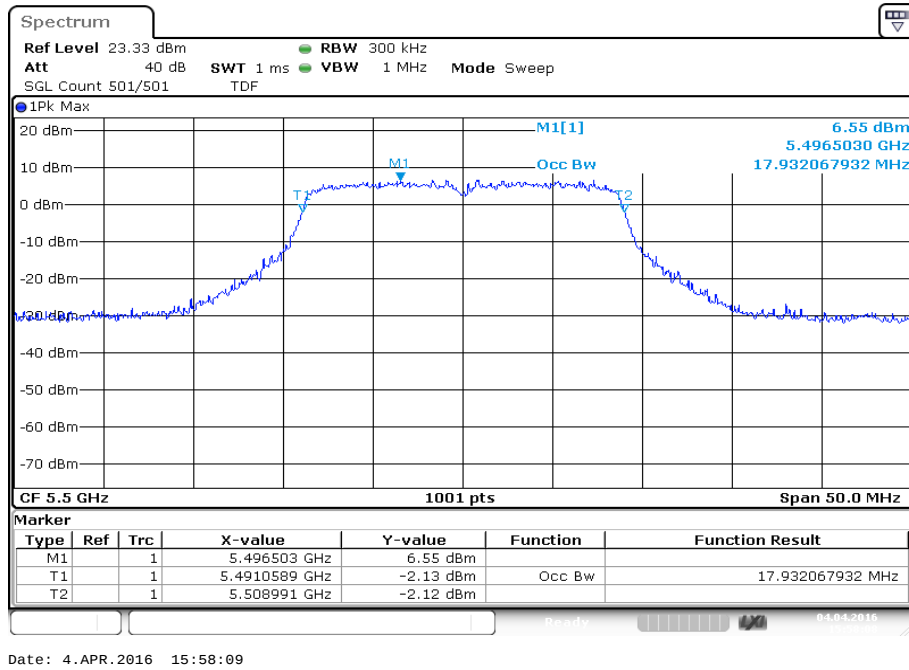
Plot 3: 5300 MHz



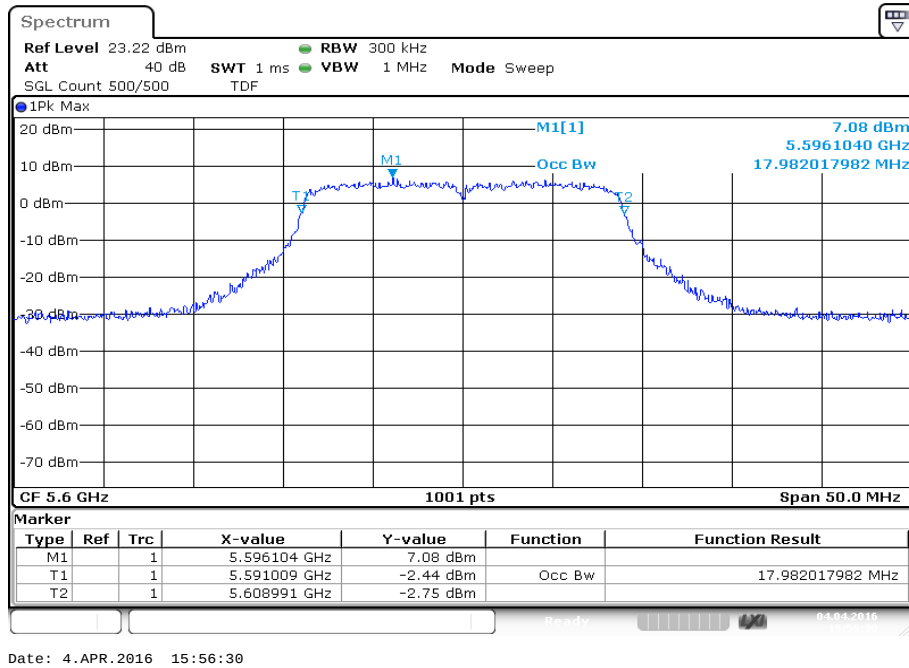
Plot 4: 5320 MHz



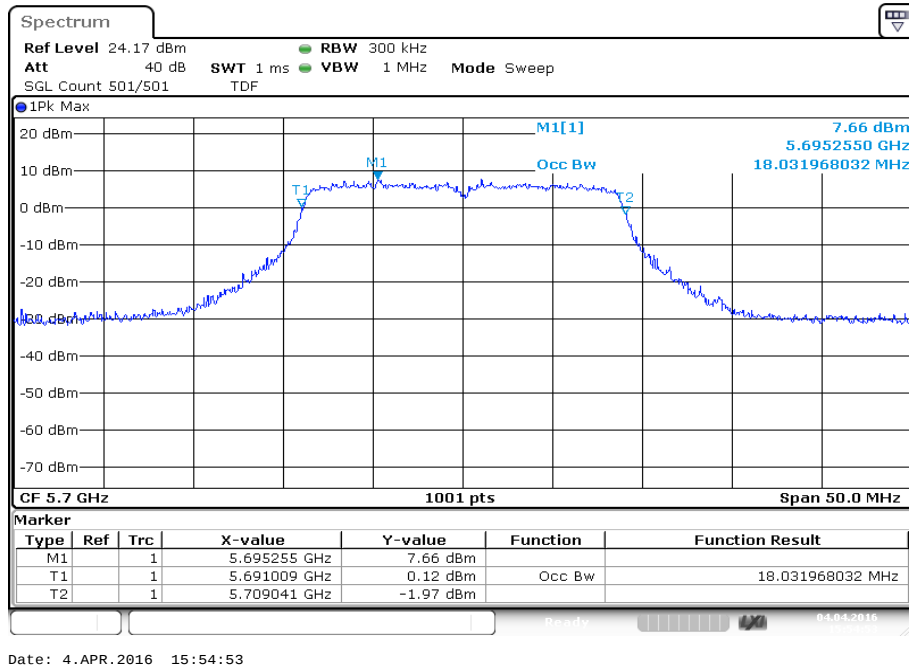
Plot 5: 5500 MHz



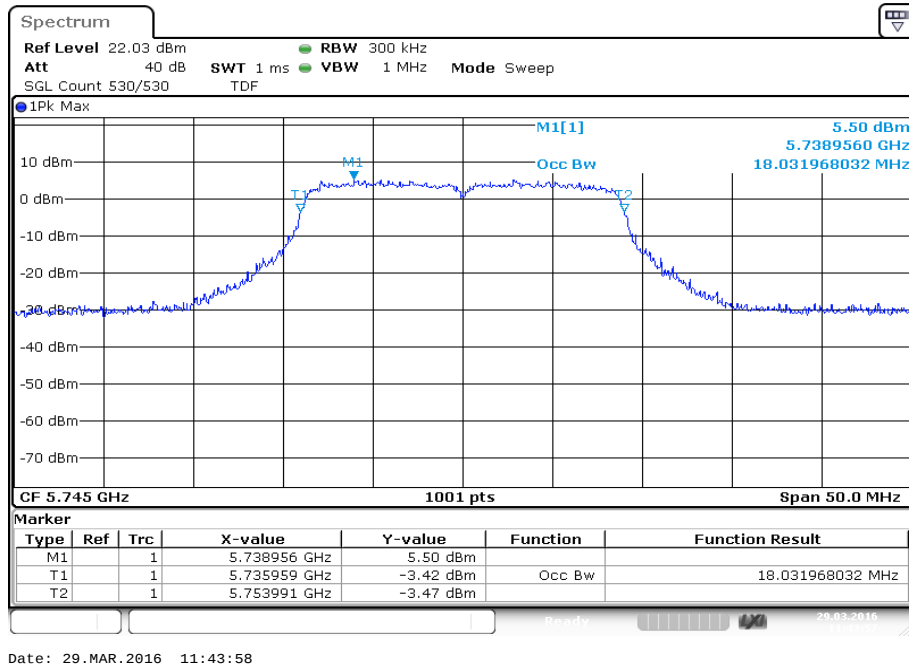
Plot 6: 5600 MHz



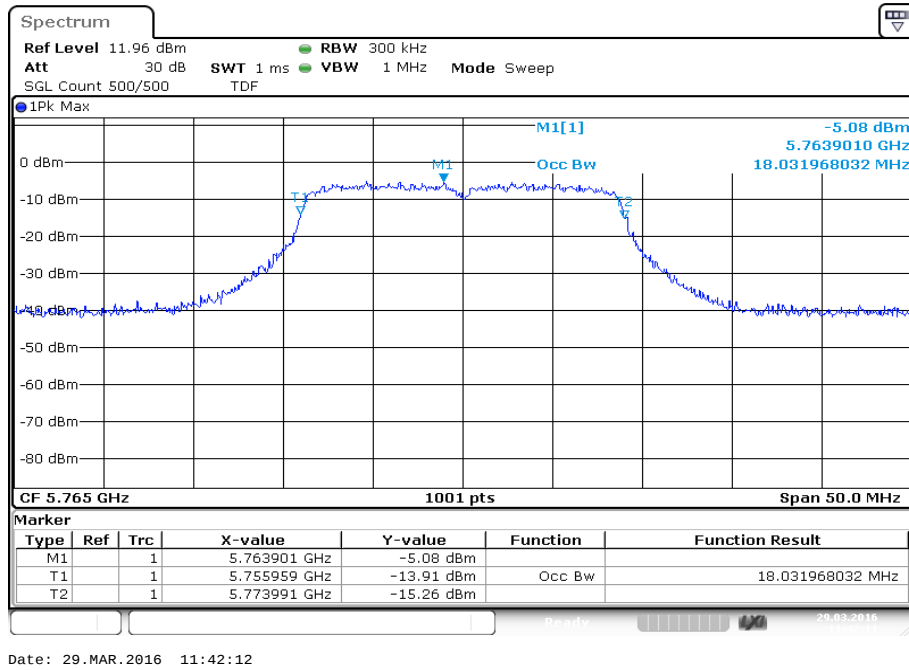
Plot 7: 5700 MHz



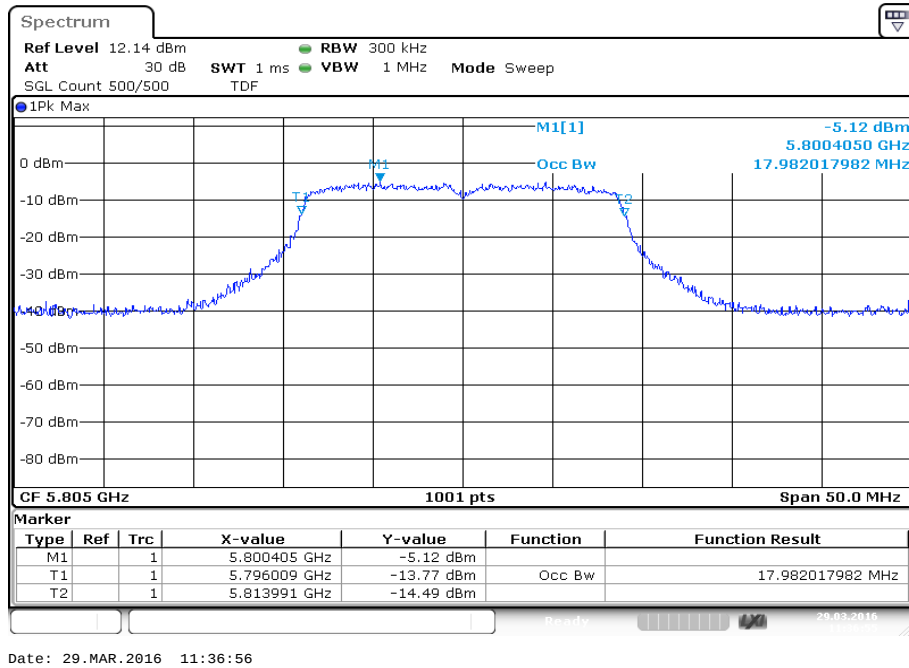
Plot 8: 5745 MHz



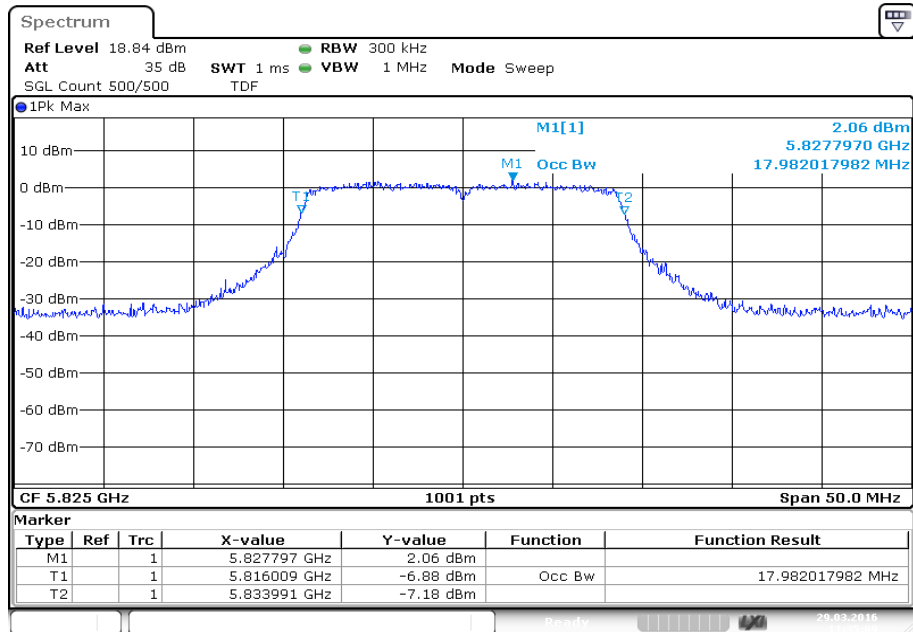
Plot 9: 5765 MHz



Plot 10: 5805 MHz



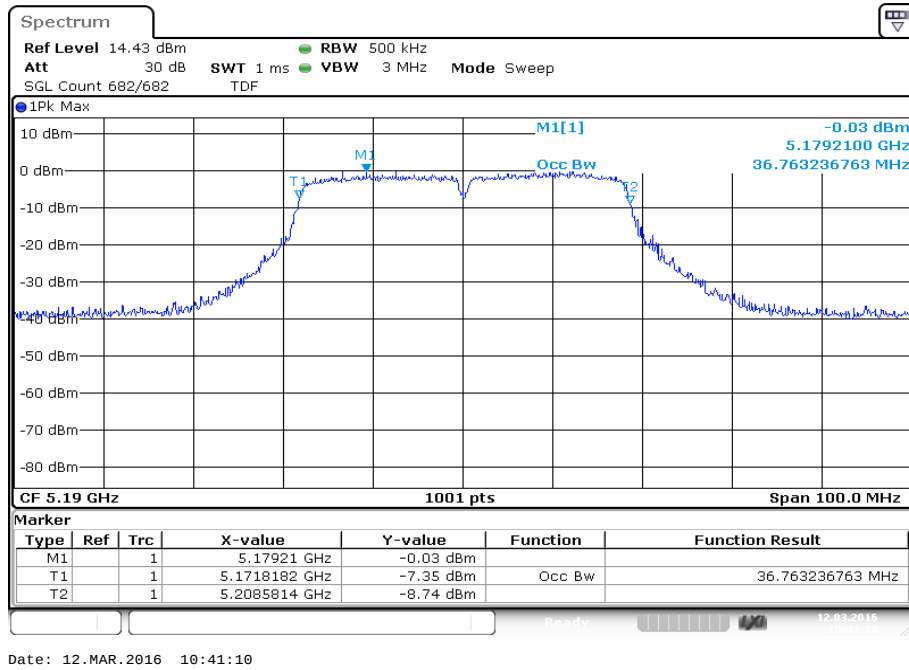
Plot 11: 5825 MHz



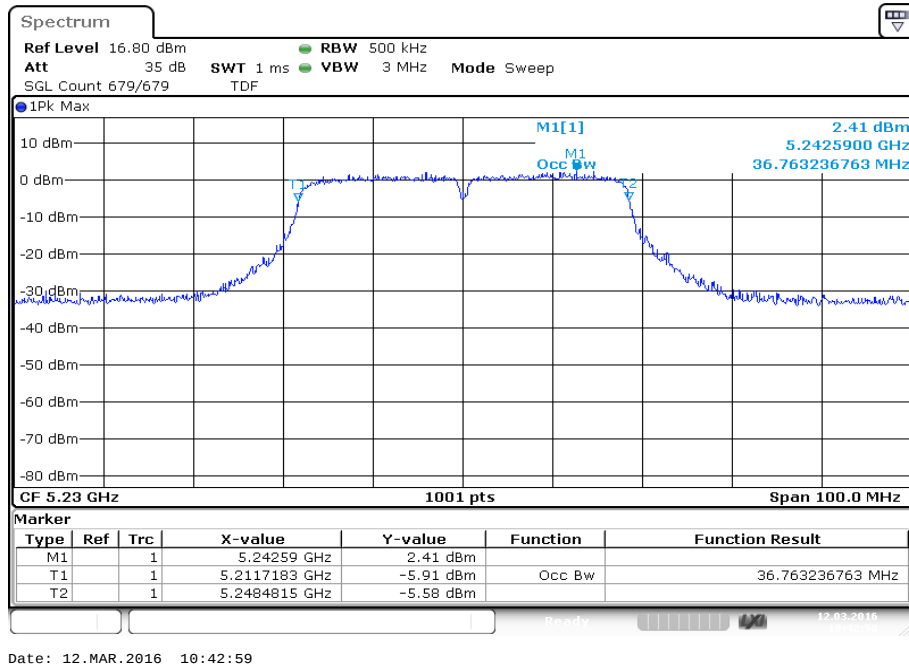
Date: 29.MAR.2016 11:35:10

Plots: OFDM / n HT40 – mode, antenna port 2

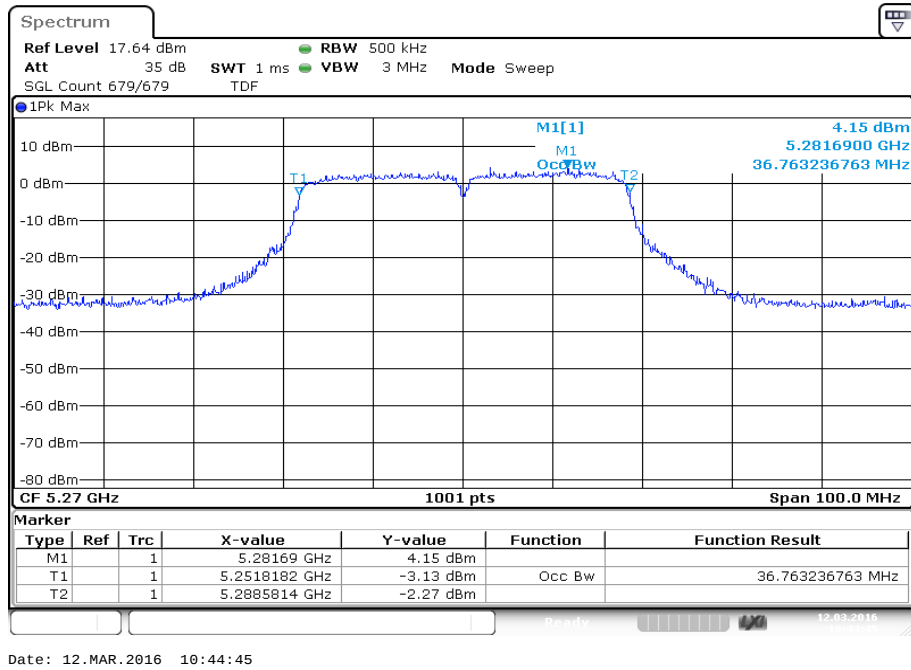
Plot 1: 5190 MHz



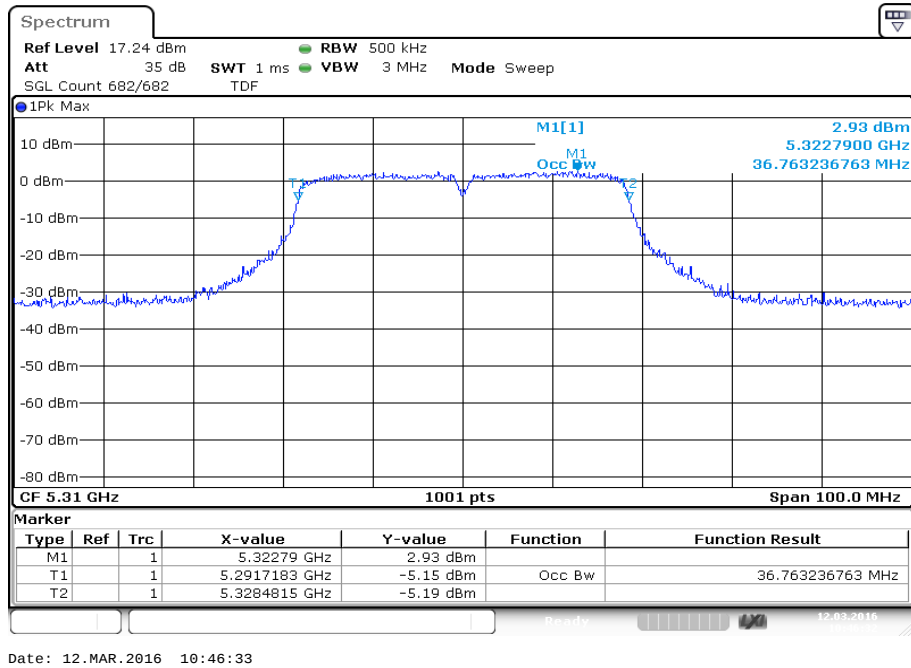
Plot 2: 5230 MHz



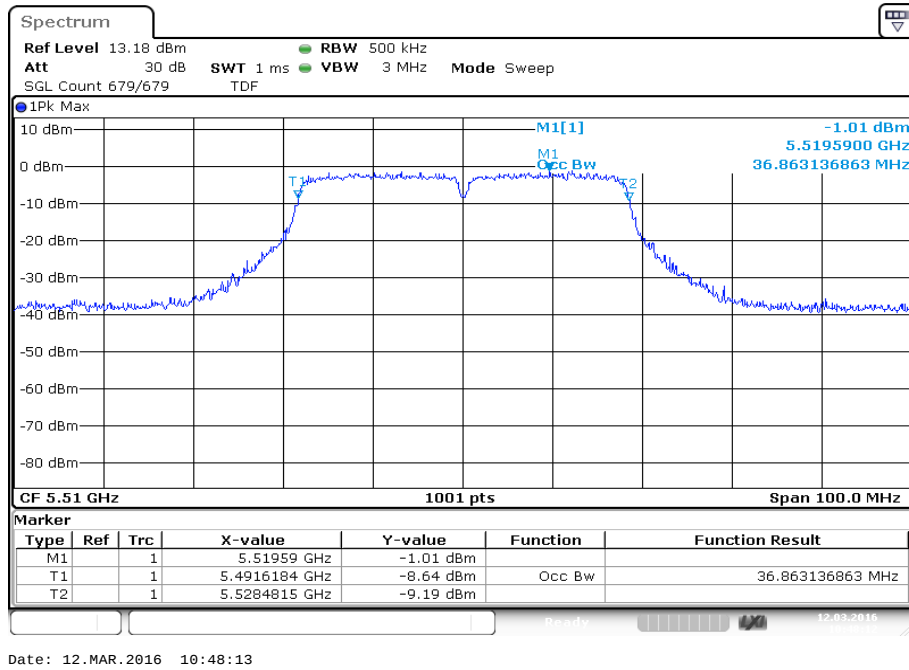
Plot 3: 5270 MHz



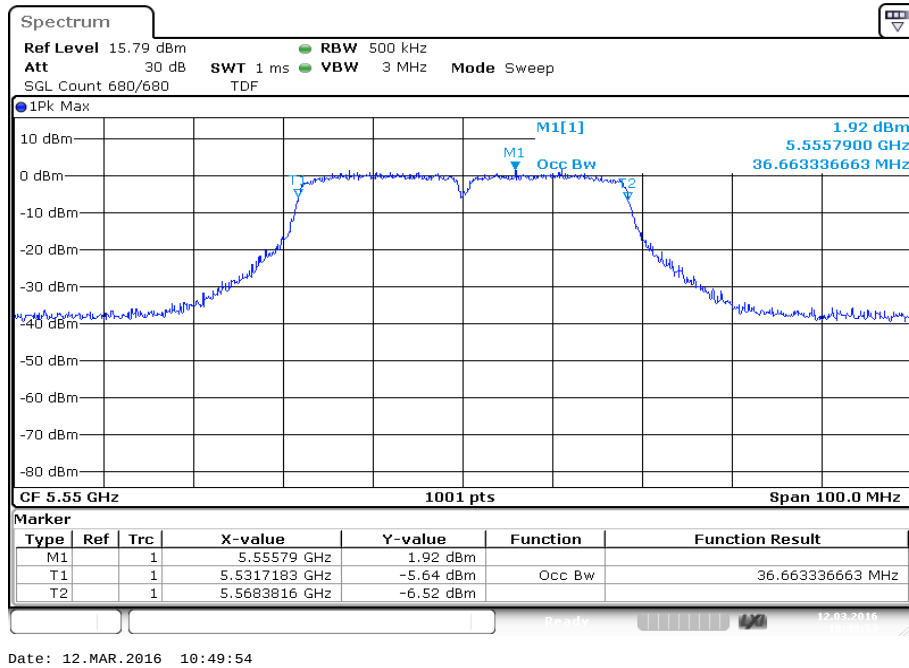
Plot 4: 5310 MHz



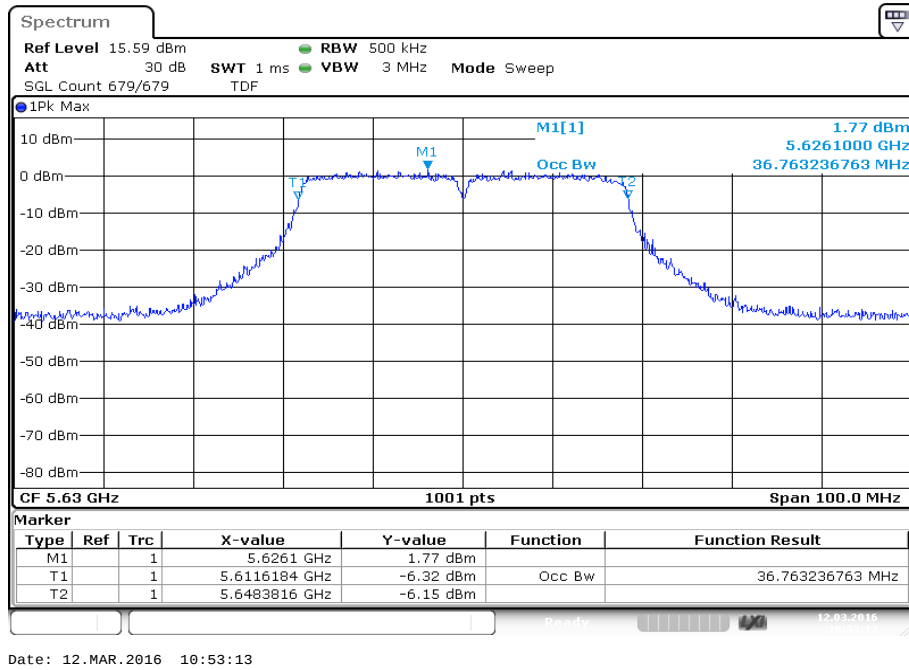
Plot 5: 5510 MHz



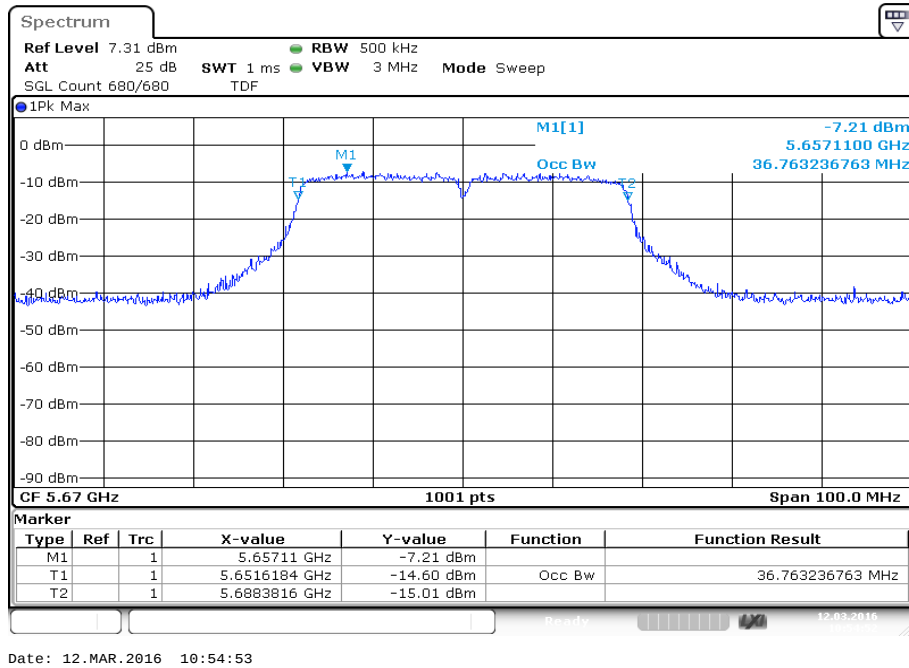
Plot 6: 5550 MHz



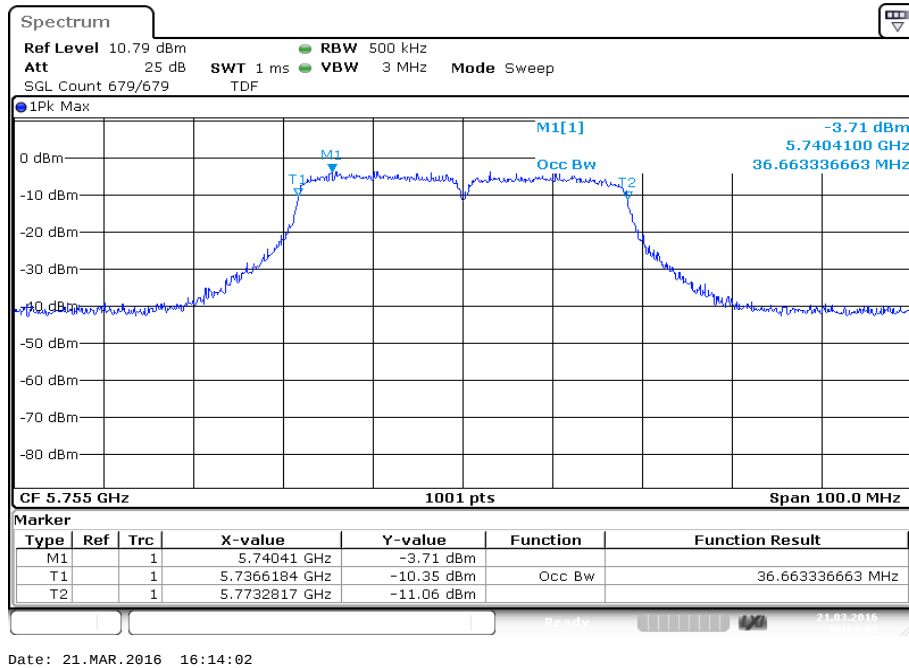
Plot 7: 5630 MHz



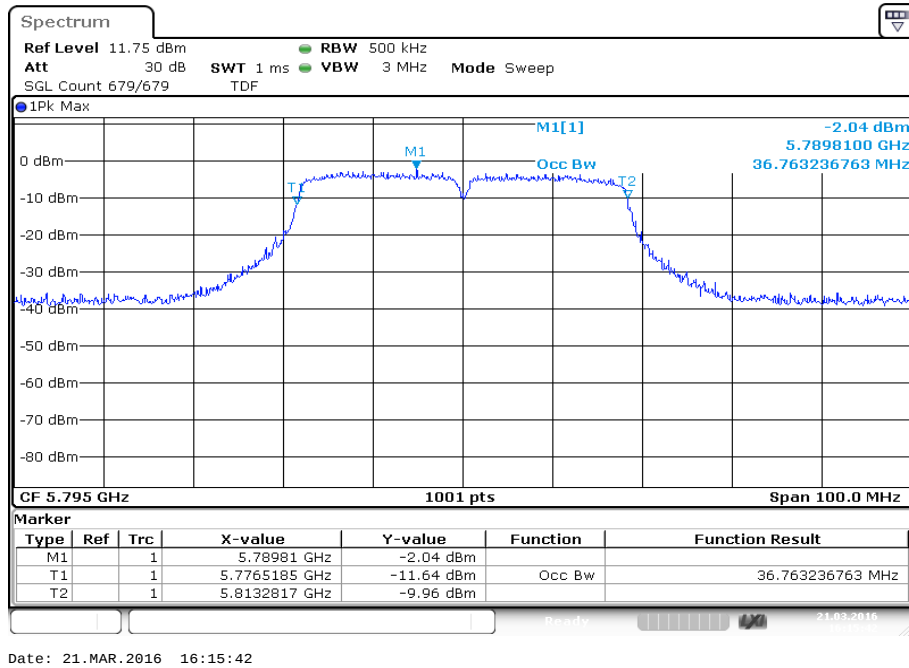
Plot 8: 5670 MHz



Plot 9: 5755 MHz

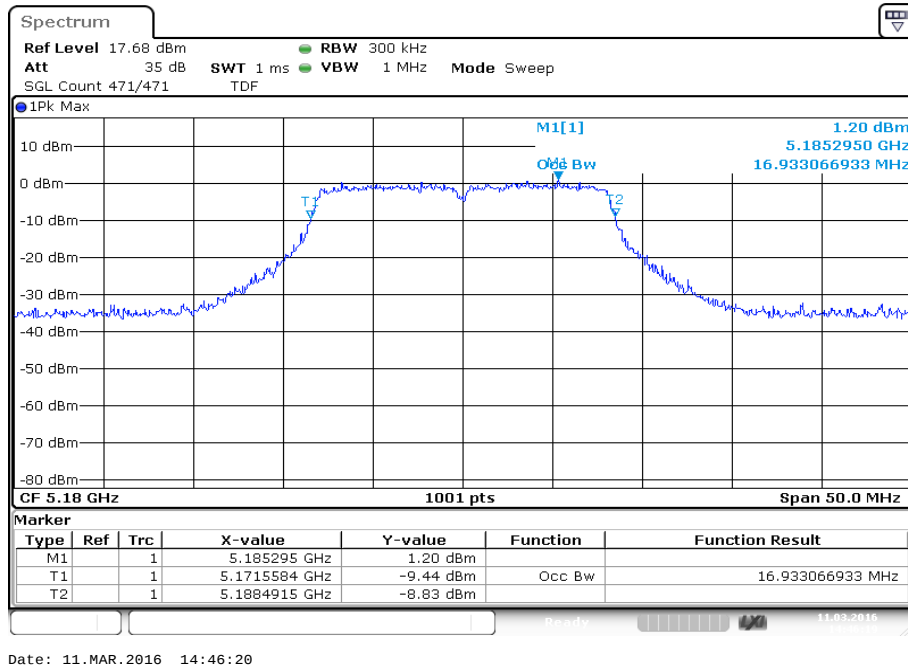


Plot 10: 5795 MHz

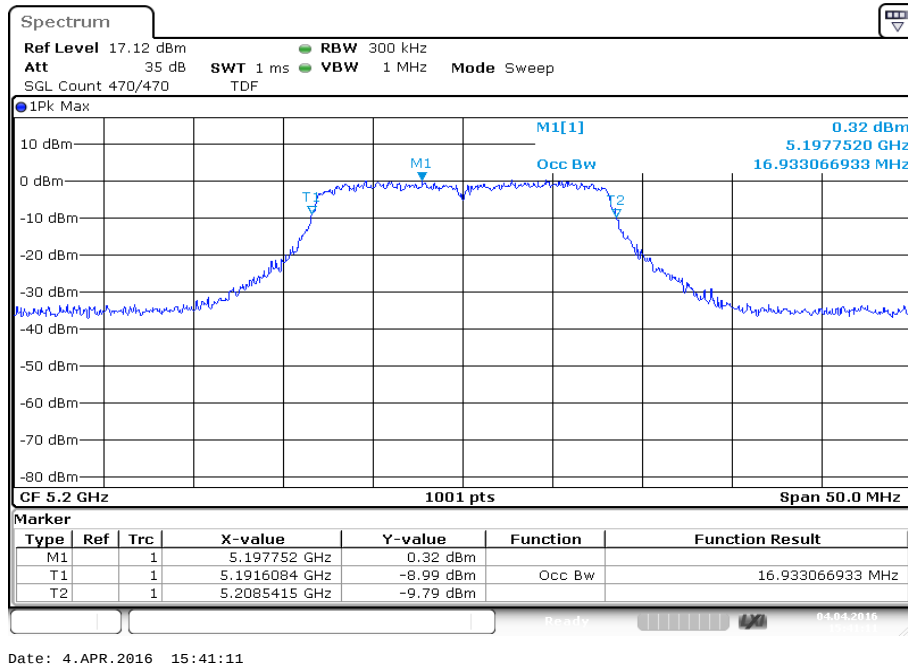


Plots: OFDM / a – mode, antenna port 3

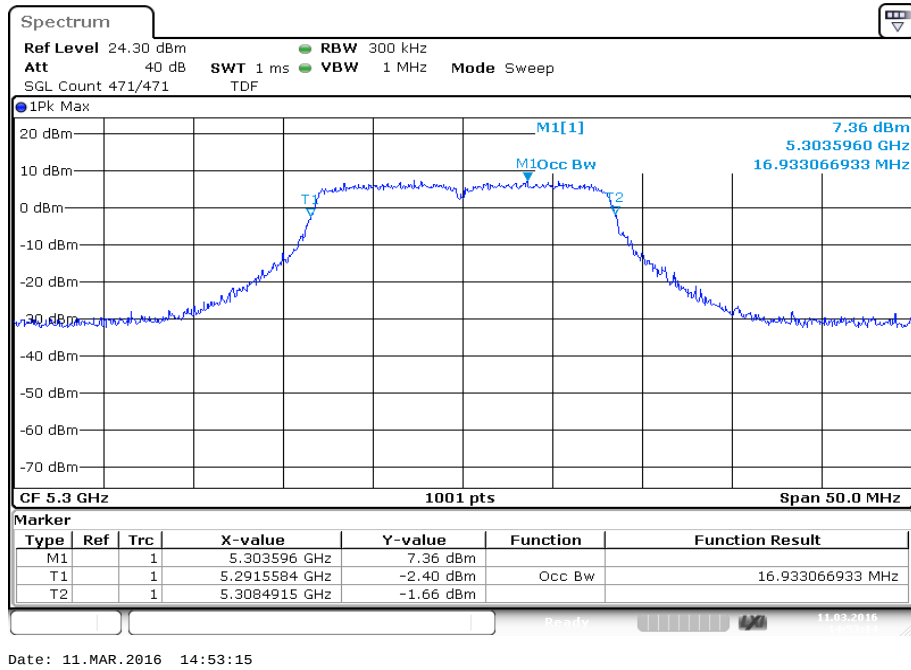
Plot 1: 5180 MHz



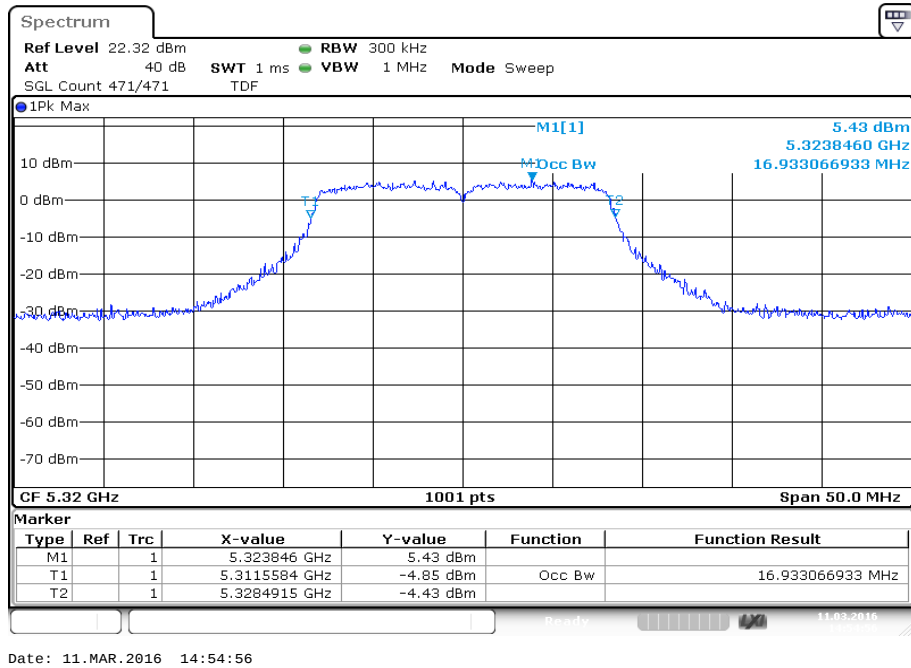
Plot 2: 5200 MHz



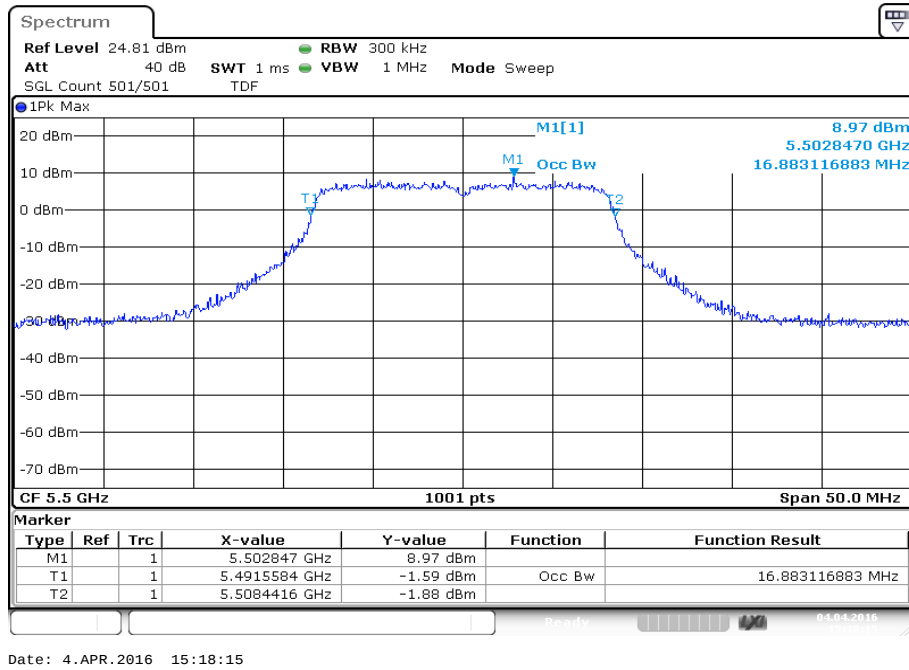
Plot 3: 5300 MHz



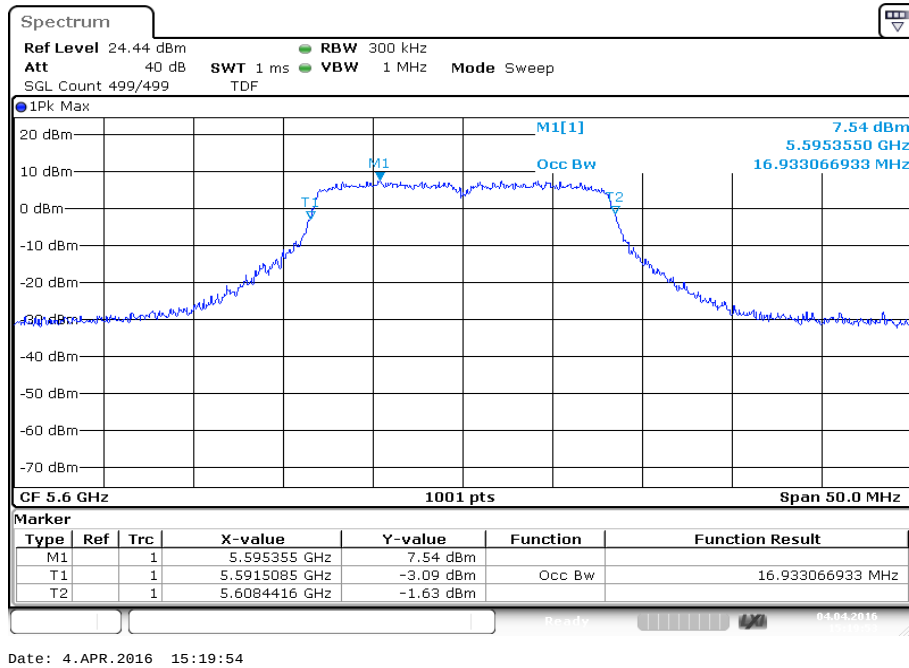
Plot 4: 5320 MHz



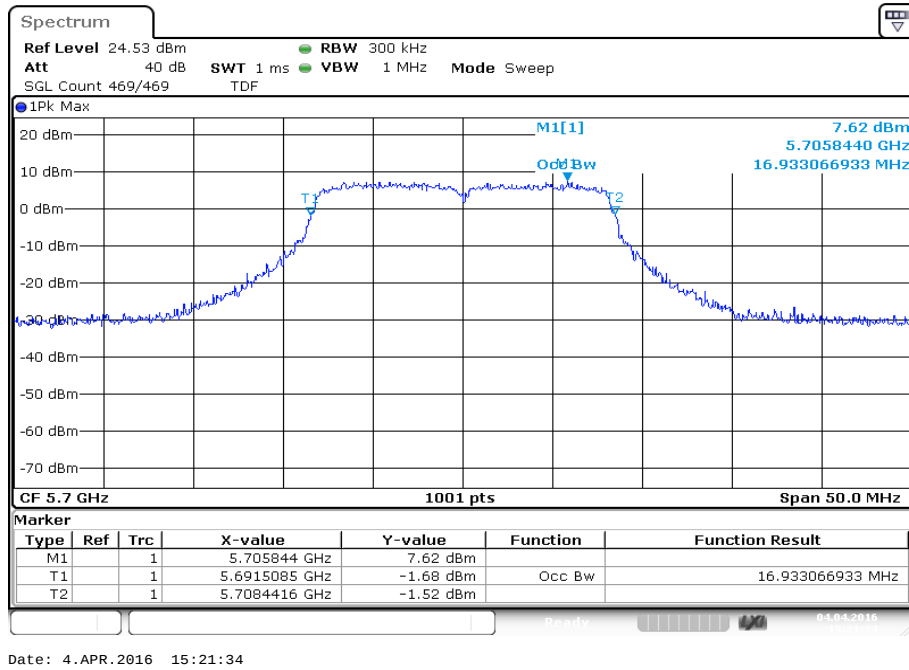
Plot 5: 5500 MHz



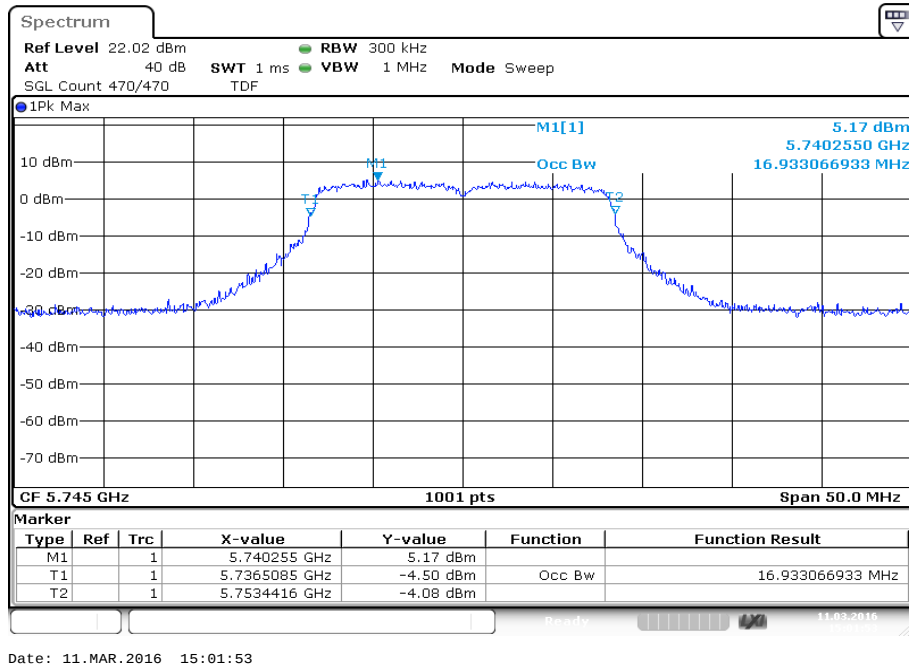
Plot 6: 5600 MHz



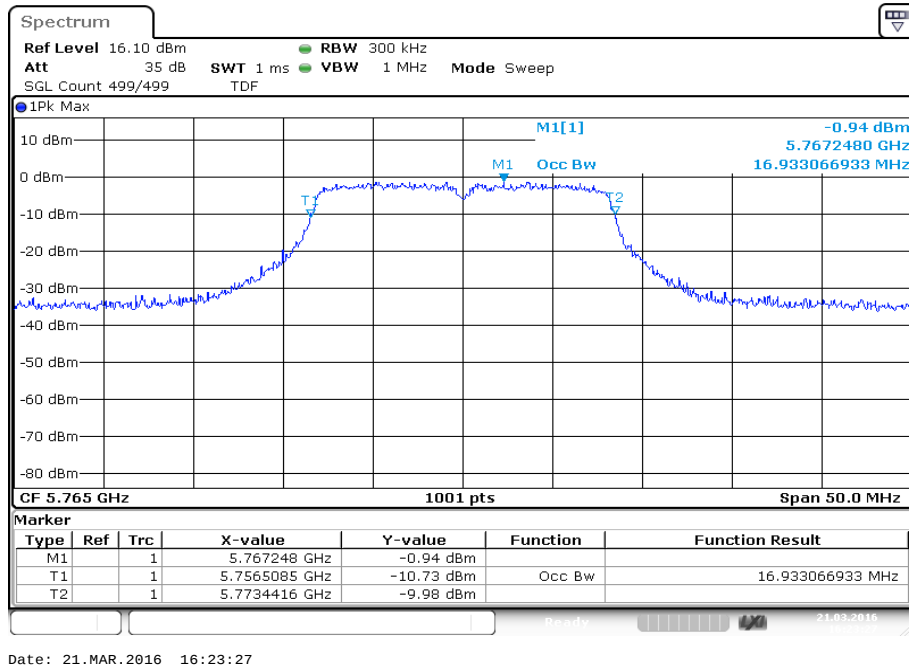
Plot 7: 5700 MHz



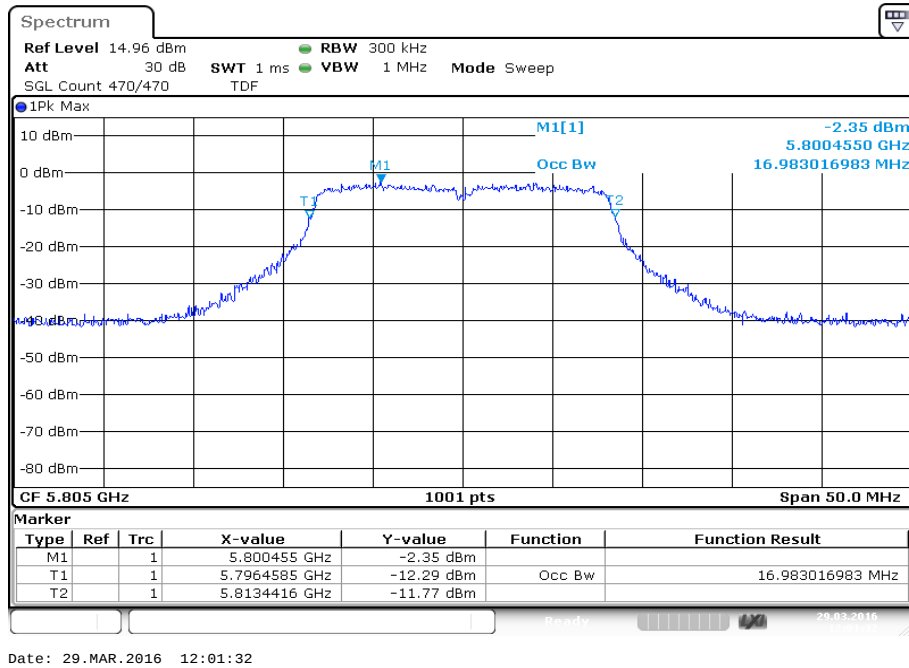
Plot 8: 5745 MHz



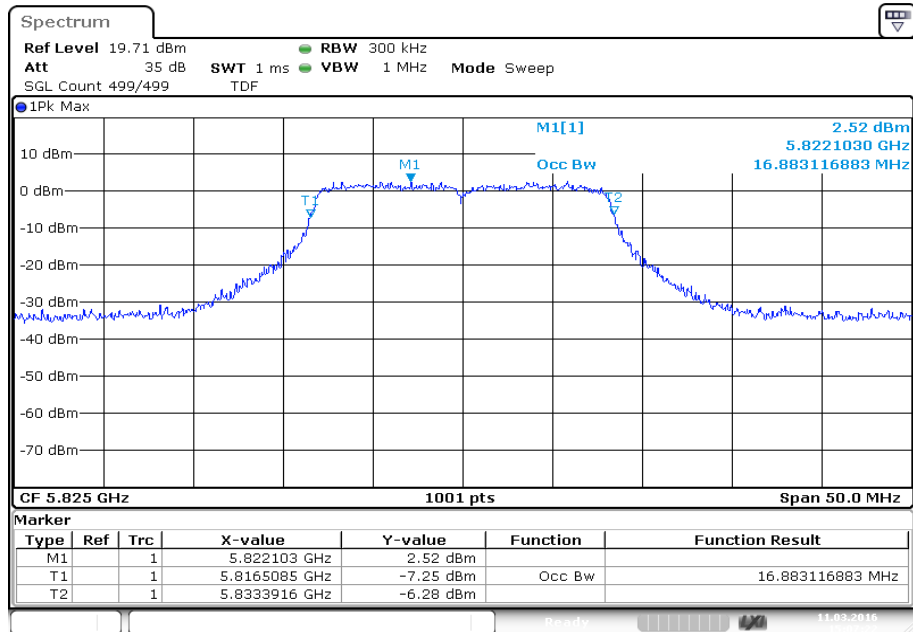
Plot 9: 5765 MHz



Plot 10: 5805 MHz



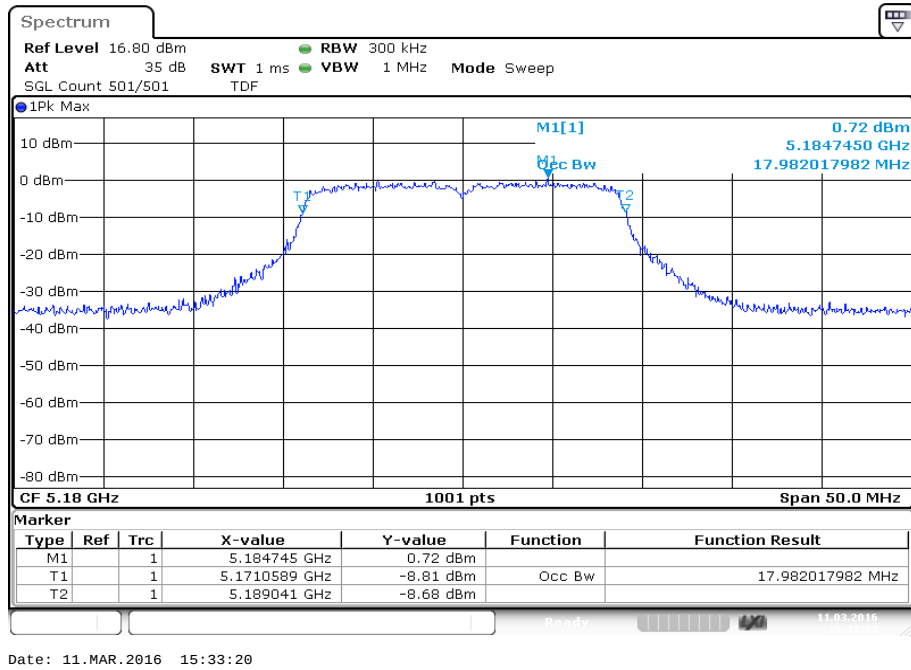
Plot 11: 5825 MHz



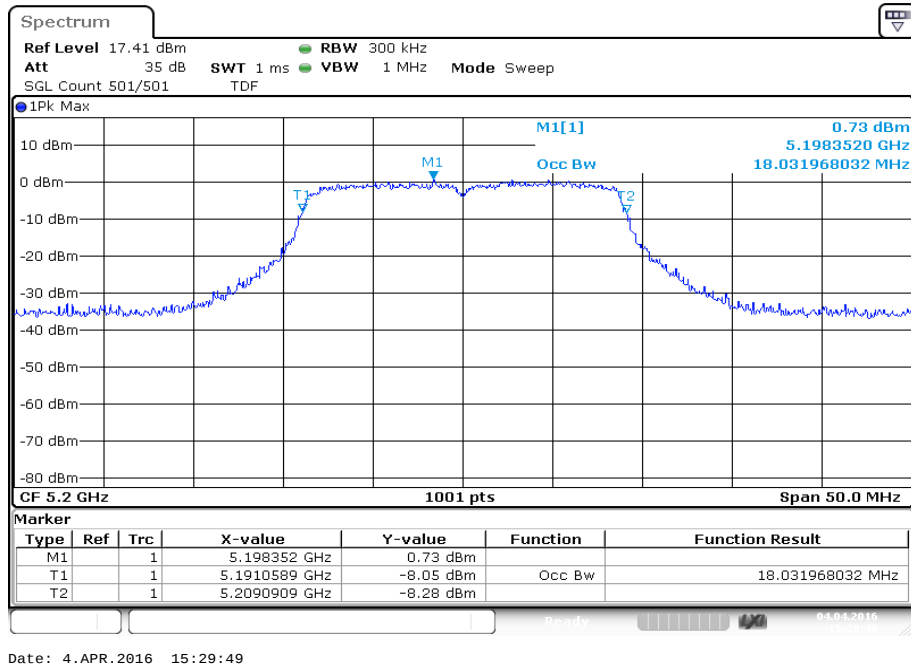
Date: 11.MAR.2016 15:07:22

Plots: OFDM / n HT20 – mode, antenna port 3

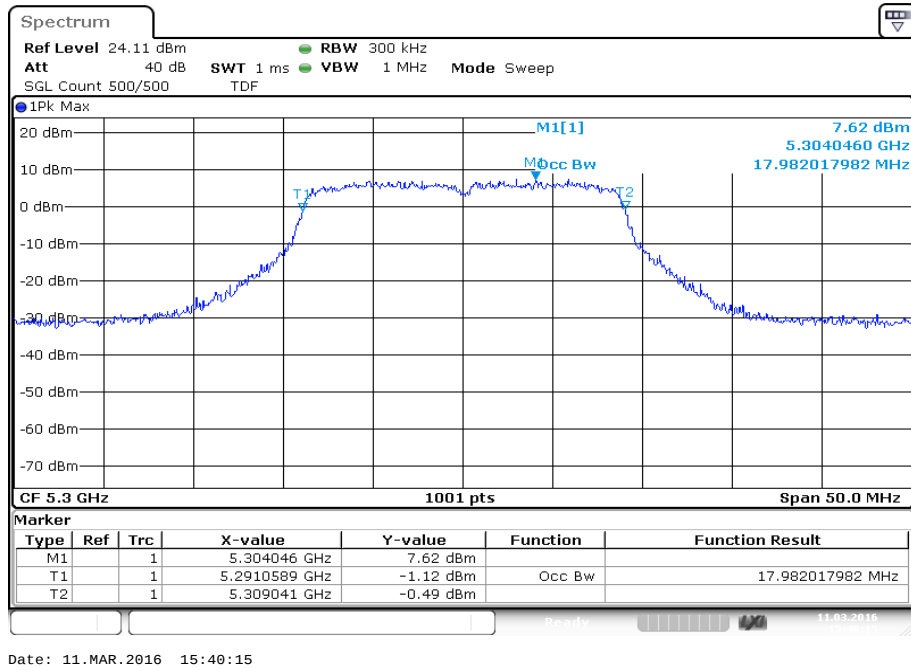
Plot 1: 5180 MHz



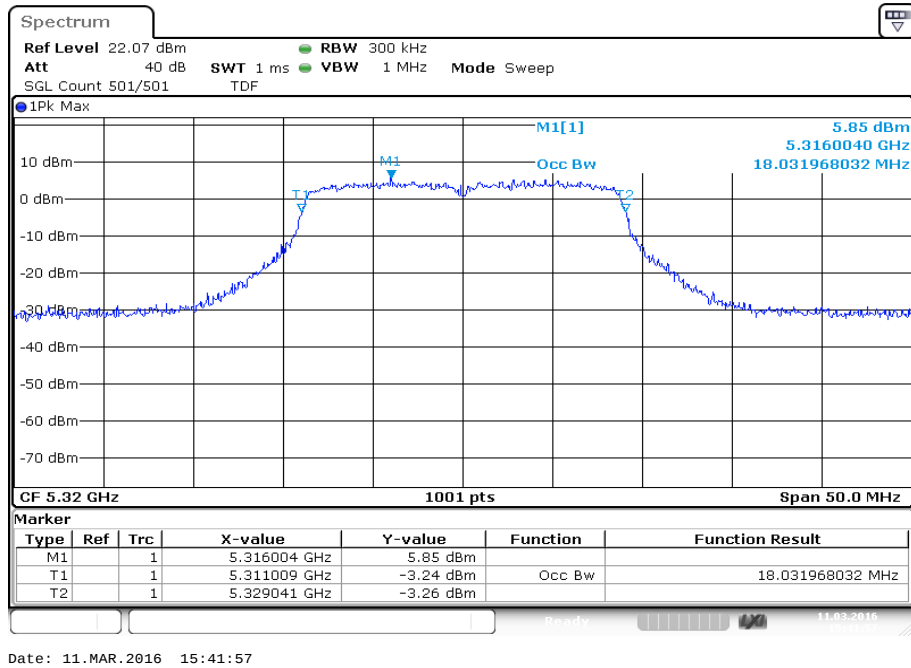
Plot 2: 5200 MHz



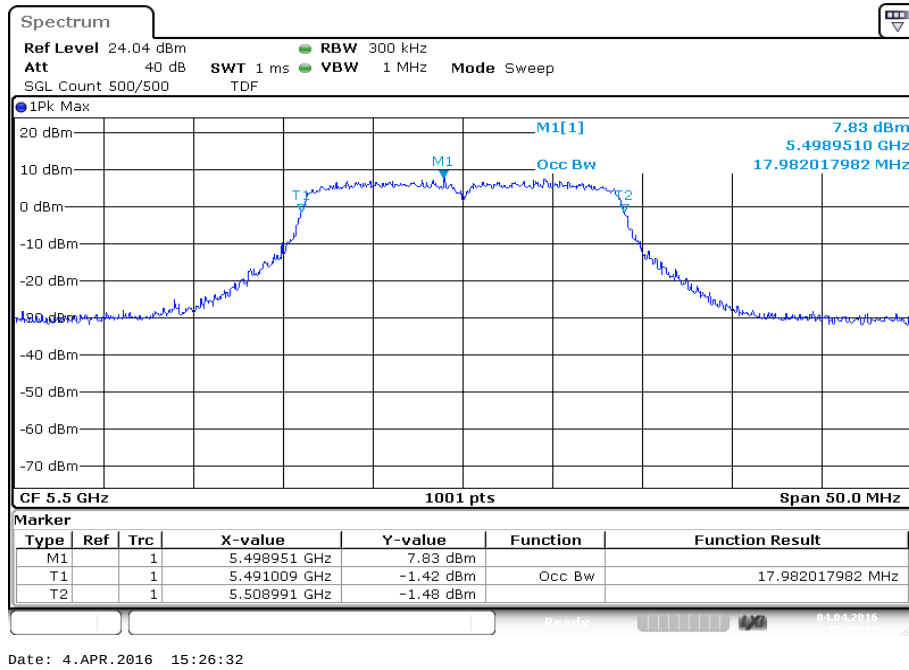
Plot 3: 5300 MHz



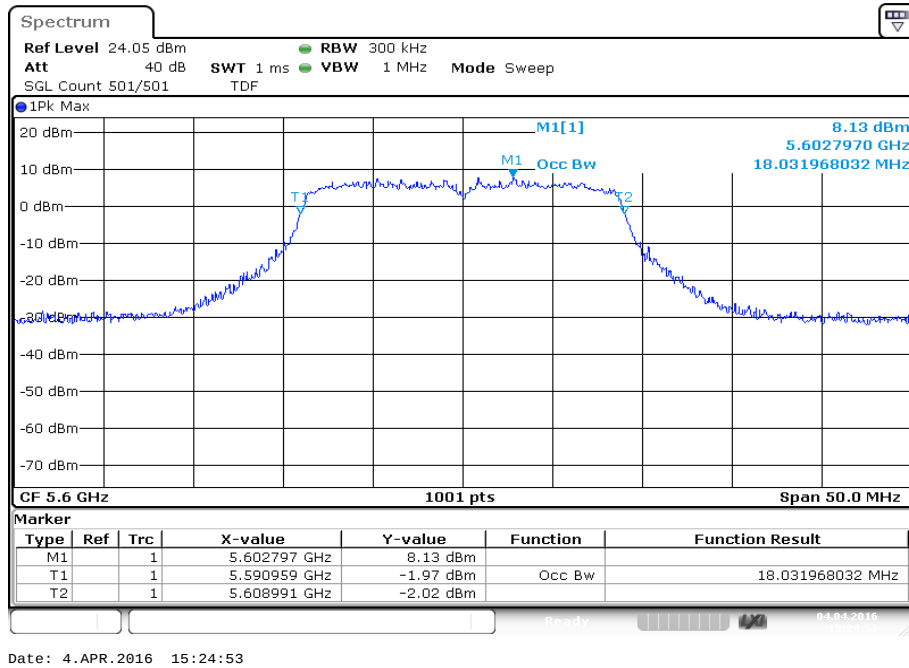
Plot 4: 5320 MHz



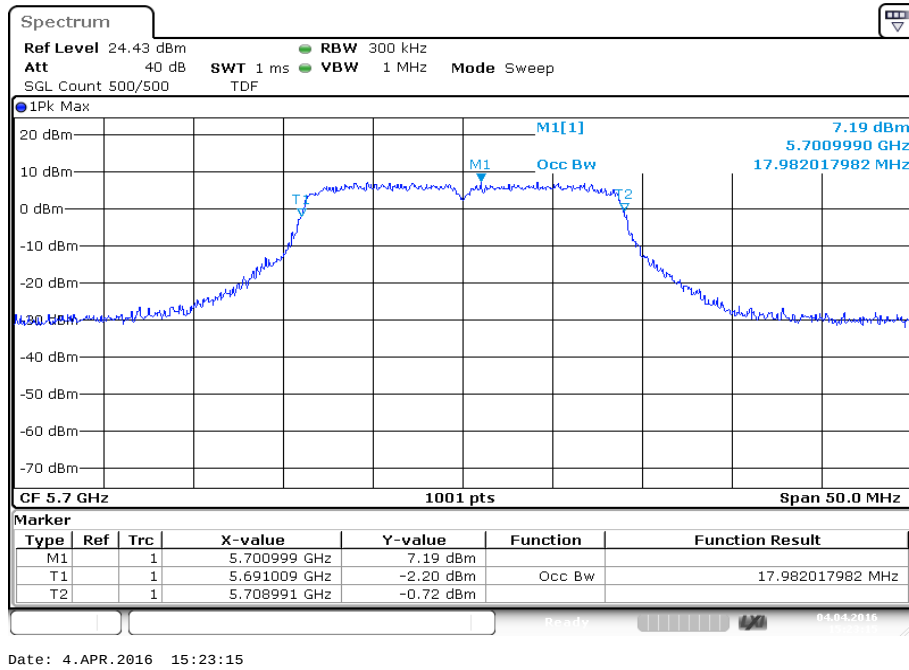
Plot 5: 5500 MHz



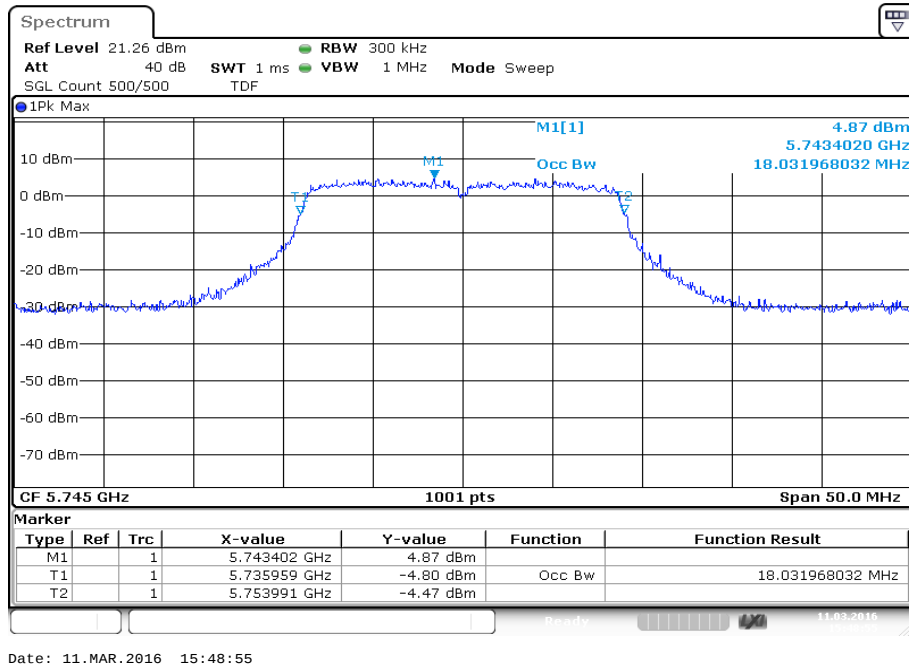
Plot 6: 5600 MHz



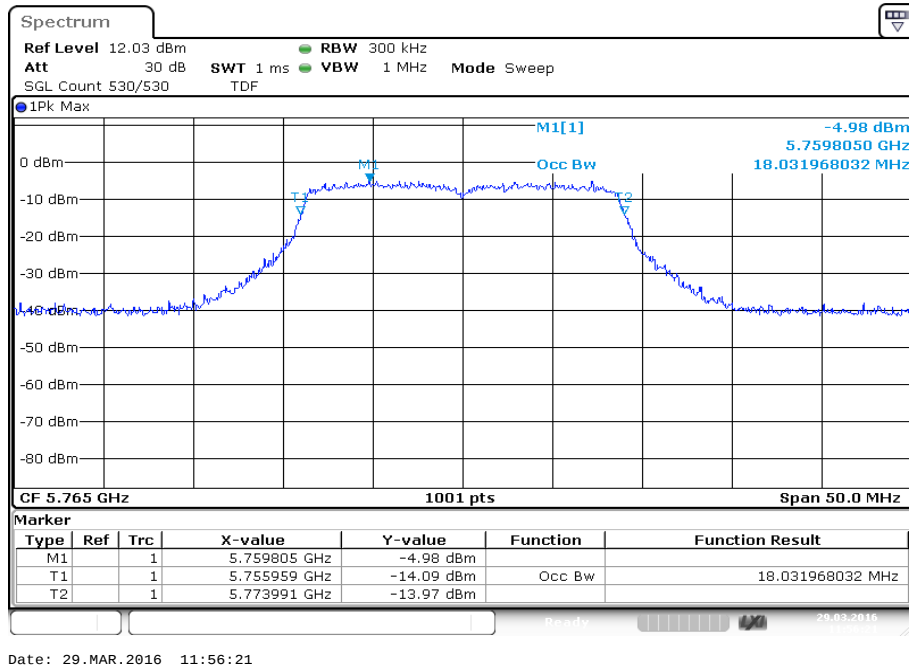
Plot 7: 5700 MHz



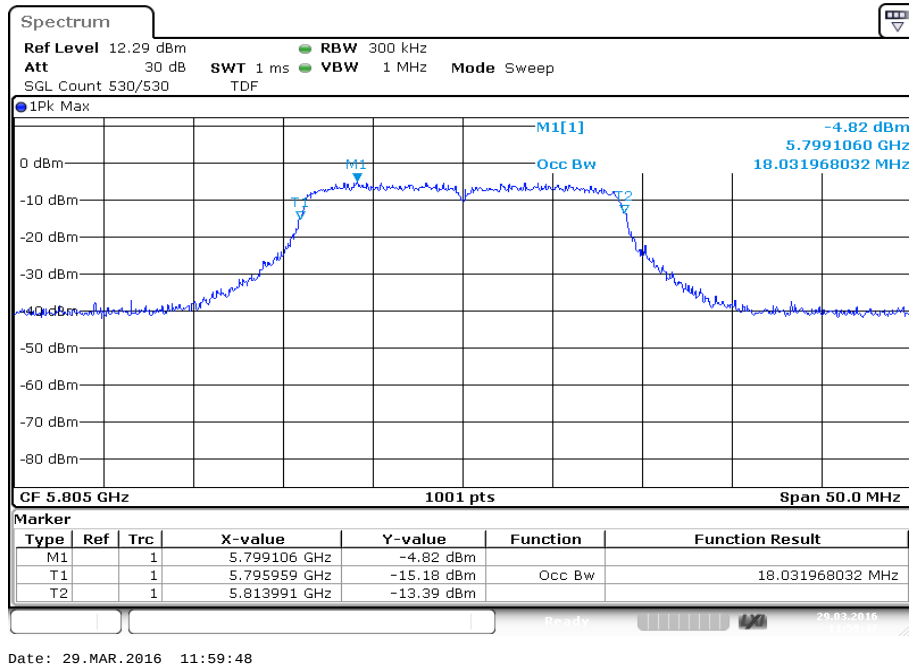
Plot 8: 5745 MHz



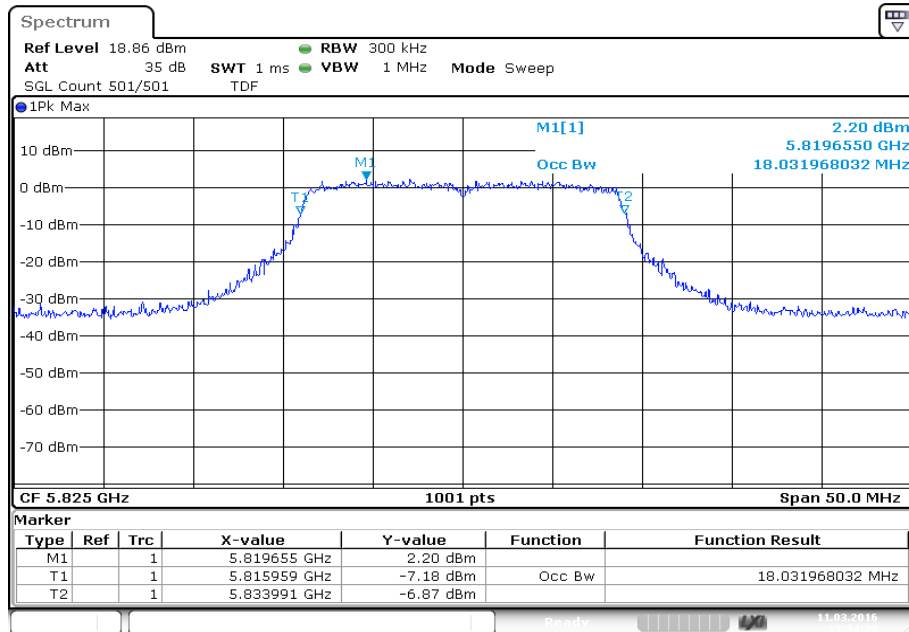
Plot 9: 5765 MHz



Plot 10: 5805 MHz



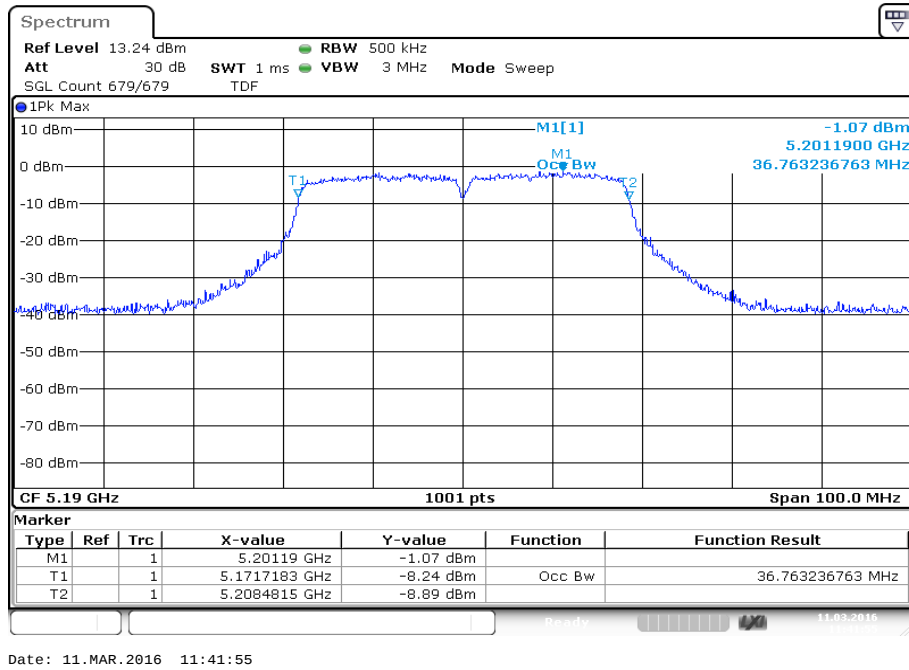
Plot 11: 5825 MHz



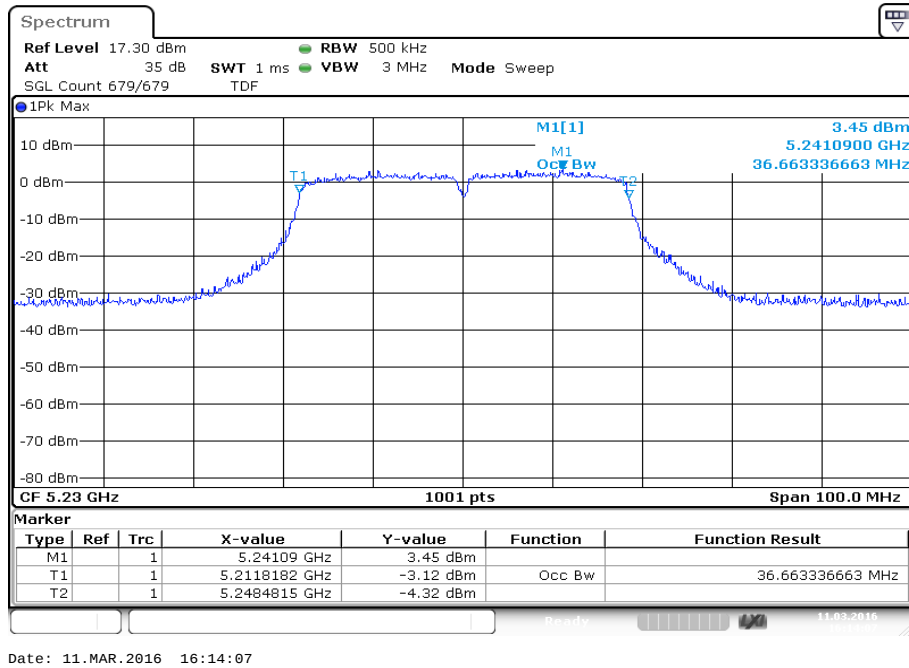
Date: 11.MAR.2016 15:54:24

Plots: OFDM / n HT40 – mode, antenna port 3

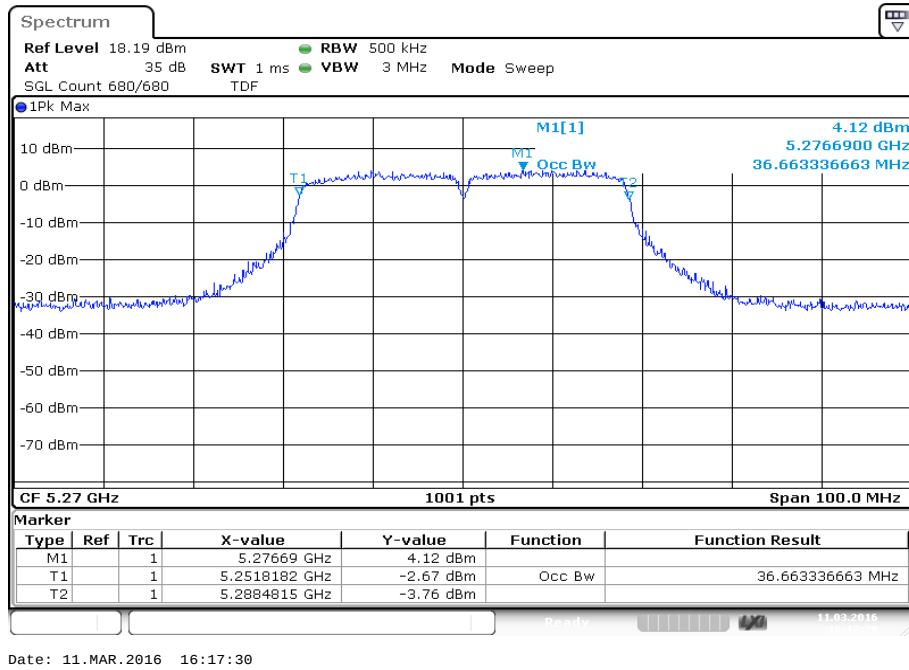
Plot 1: 5190 MHz



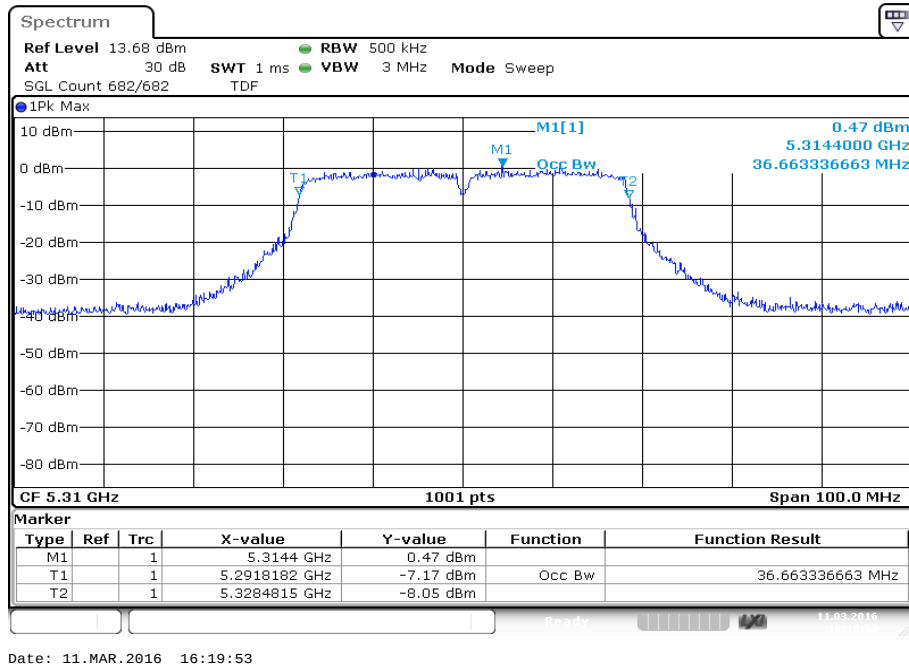
Plot 2: 5230 MHz



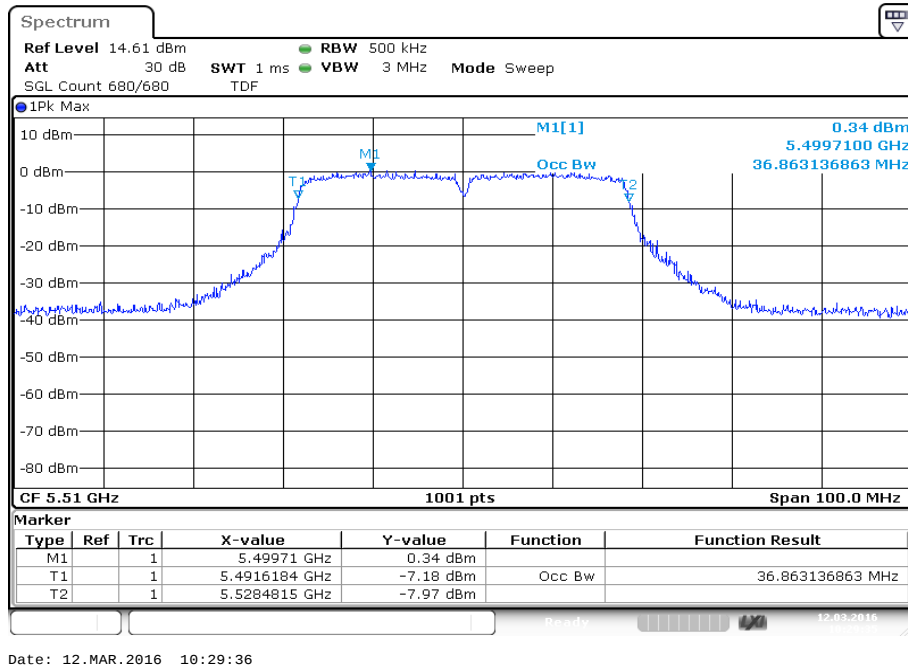
Plot 3: 5270 MHz



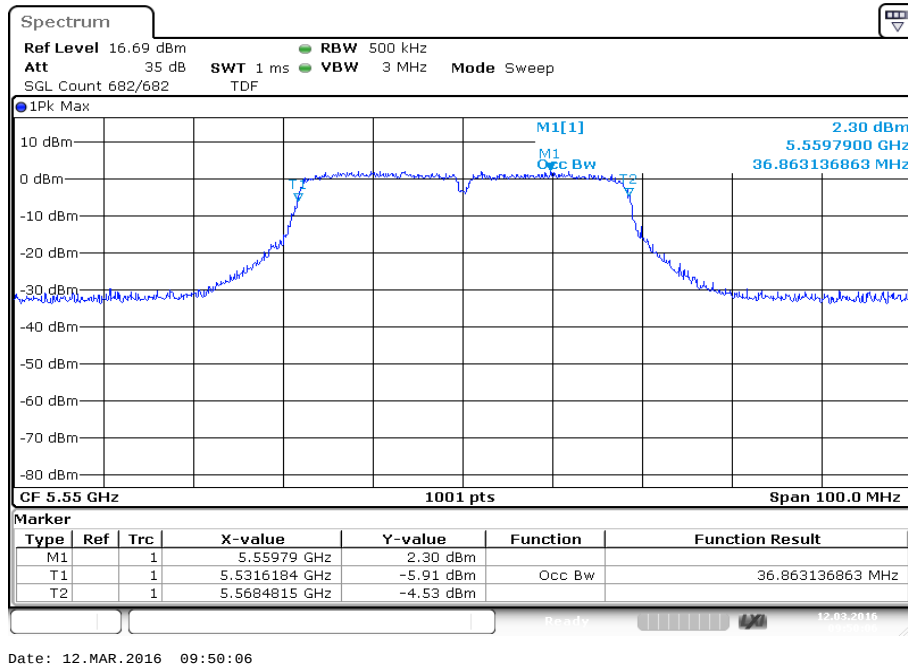
Plot 4: 5310 MHz



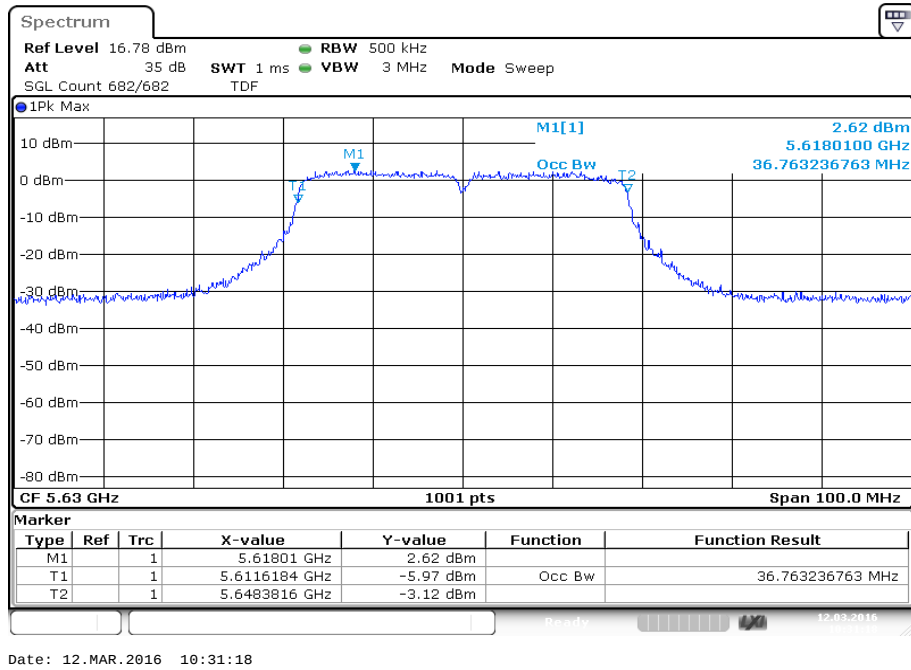
Plot 5: 5510 MHz



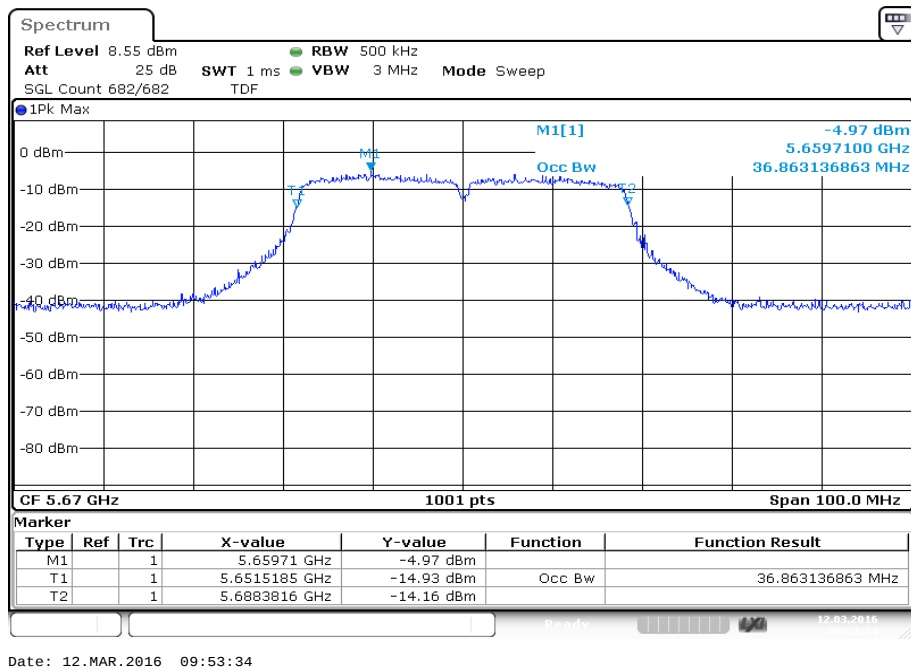
Plot 6: 5550 MHz



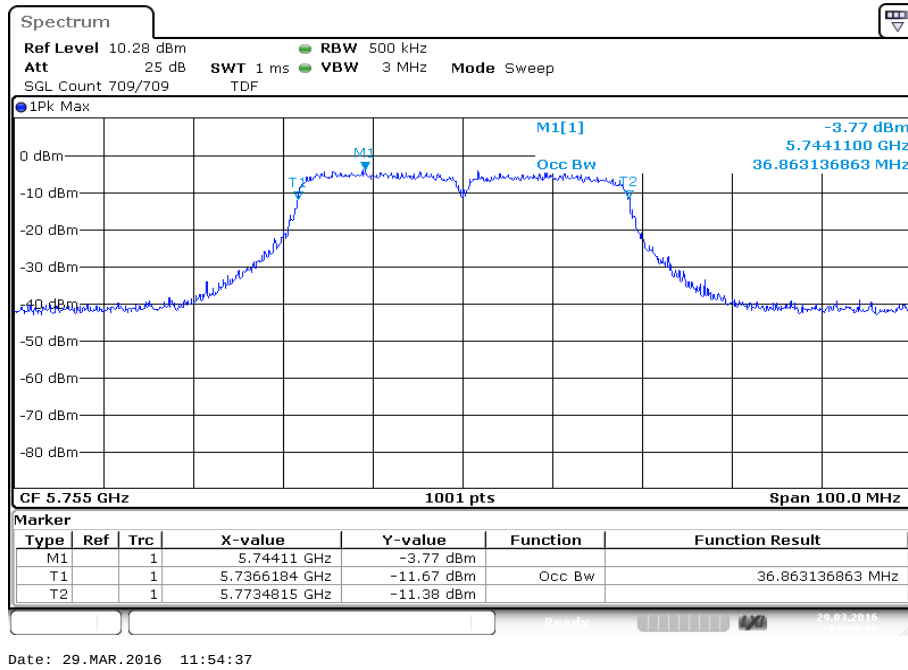
Plot 7: 5630 MHz



Plot 8: 5670 MHz



Plot 9: 5755 MHz



Plot 10: 5795 MHz

