

12.7 Spectrum bandwidth – 26 dB bandwidth**Description:**

Measurement of the 26 dB bandwidth of the modulated signal.

Measurement:

Measurement parameter	
According to: KDB789033 D02, C.1.	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	1% EBW
Video bandwidth:	≥ RBW
Span:	> complete signal!
Trace-Mode:	Max hold
Used test setup:	see chapter 7.4 – A
Measurement uncertainty:	see chapter 9

Limits:

Spectrum Bandwidth – 26 dB Bandwidth
-/-

Result: antenna port 1

OFDM / a – mode	26 dB bandwidth [MHz]				
	Channel	5180 MHz	5200 MHz	5300 MHz	5320 MHz
		23.33	23.63	22.93	23.68
Channel		5500 MHz	5600 MHz	5700 MHz	-/-
		23.33	22.68	22.73	-/-
Channel		5745 MHz	5705 MHz	5805 MHz	5825 MHz
		23.68	24.08	23.23	23.58

OFDM / n HT20 – mode	26 dB bandwidth [MHz]				
	Channel	5180 MHz	5200 MHz	5300 MHz	5320 MHz
		23.73	23.33	23.73	23.73
Channel		5500 MHz	5600 MHz	5700 MHz	-/-
		23.43	23.63	23.93	-/-
Channel		5745 MHz	5765 MHz	5805 MHz	5825 MHz
		24.03	22.98	23.83	23.53

OFDM / n HT40 – mode	26 dB bandwidth [MHz]				
	Channel	5190 MHz	5230 MHz	5270 MHz	5310 MHz
		46.75	46.45	47.55	48.25
	Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
		46.55	48.85	47.95	46.85
	Channel	5755 MHz	5795 MHz	-/-	-/-
		47.05	45.85	-/-	-/-

Result: antenna port 2

OFDM / a – mode	26 dB bandwidth [MHz]				
	Channel	5180 MHz	5200 MHz	5300 MHz	5320 MHz
		23.13	23.83	22.73	23.23
Channel	5500 MHz	5600 MHz	5700 MHz	-/-	
	23.38	23.08	22.63	-/-	
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz	
	22.98	23.88	22.63	23.23	

OFDM / n HT20 – mode	26 dB bandwidth [MHz]				
	Channel	5180 MHz	5200 MHz	5300 MHz	5320 MHz
		24.23	24.53	24.08	24.38
Channel		5500 MHz	5600 MHz	5700 MHz	-/-
		23.53	23.33	23.78	-/-
Channel		5745 MHz	5765 MHz	5805 MHz	5825 MHz
		23.63	23.73	23.83	23.68

OFDM / n HT40 – mode	26 dB bandwidth [MHz]				
	Channel	5190 MHz	5230 MHz	5270 MHz	5310 MHz
		47.25	47.65	47.45	47.85
Channel		5510 MHz	5550 MHz	5630 MHz	5670 MHz
		48.25	48.05	48.65	48.65
Channel		5755 MHz	5795 MHz	-/-	-/-
		47.75	47.65	-/-	-/-

Result: antenna port 3

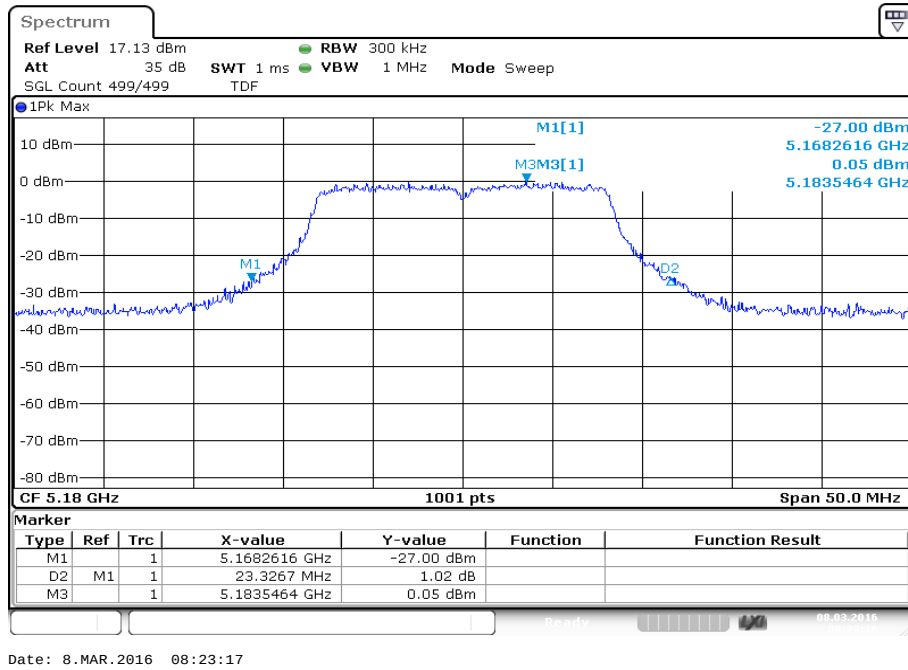
OFDM / a – mode	26 dB bandwidth [MHz]				
	Channel	5180 MHz	5200 MHz	5300 MHz	5320 MHz
		23.53	23.28	23.13	23.33
Channel	5500 MHz	5600 MHz	5700 MHz	-/-	
	22.88	23.38	22.63	-/-	
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz	
	23.28	23.73	23.33	22.58	

OFDM / n HT20 – mode	26 dB bandwidth [MHz]				
	Channel	5180 MHz	5200 MHz	5300 MHz	5320 MHz
		23.88	23.78	23.48	23.33
Channel	5500 MHz	5600 MHz	5700 MHz	-/-	
	23.73	23.68	23.33	-/-	
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz	
	24.73	23.83	24.48	23.28	

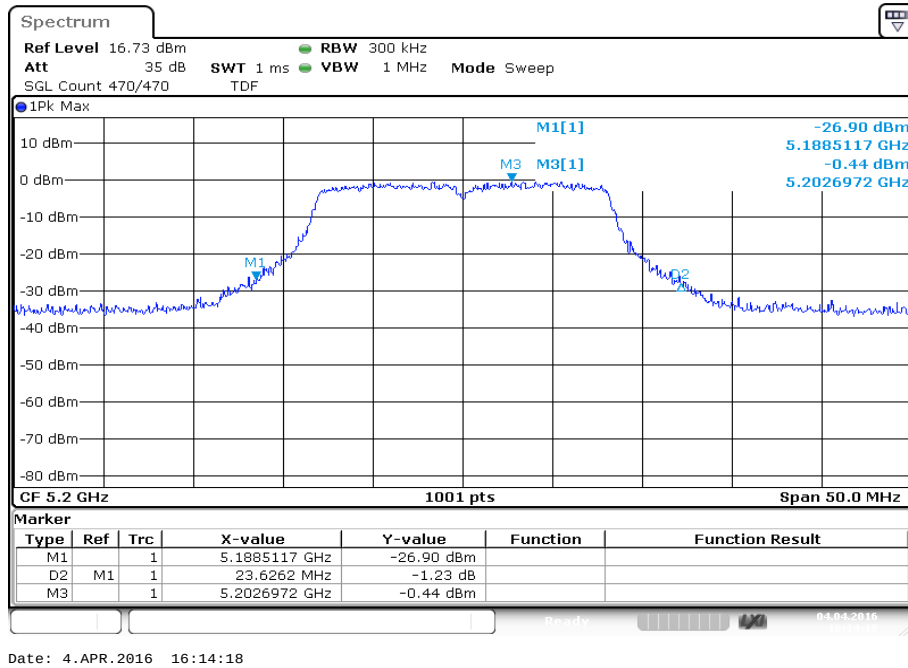
OFDM / n HT40 – mode	26 dB bandwidth [MHz]				
	Channel	5190 MHz	5230 MHz	5270 MHz	5310 MHz
		47.55	48.75	47.05	47.45
Channel		5510 MHz	5550 MHz	5630 MHz	5670 MHz
		47.75	47.25	48.35	47.85
Channel		5755 MHz	5795 MHz	-/-	-/-
		49.45	48.35	-/-	-/-

Plots: OFDM / a – mode, antenna port 1

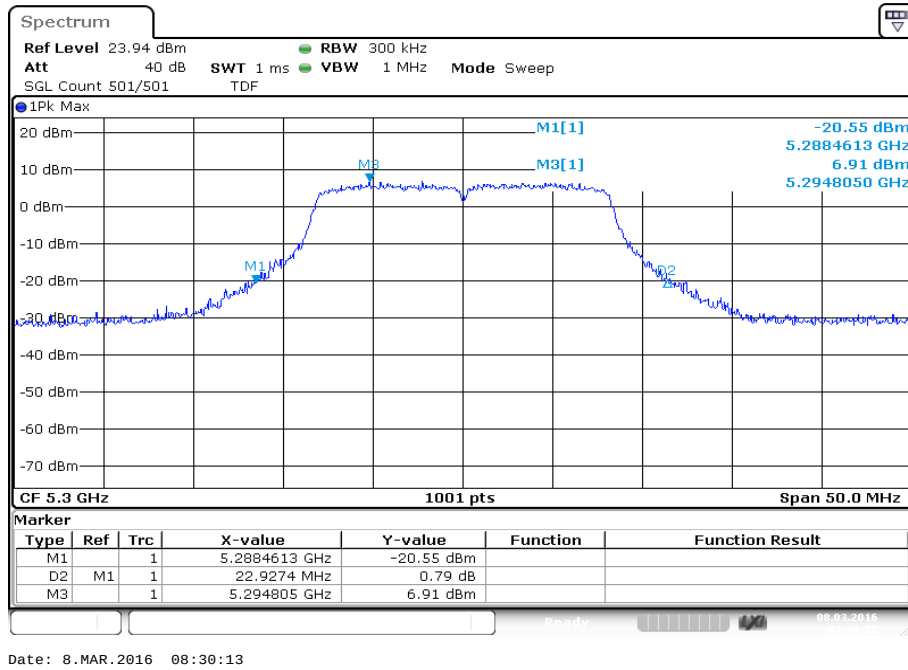
Plot 1: 5180 MHz



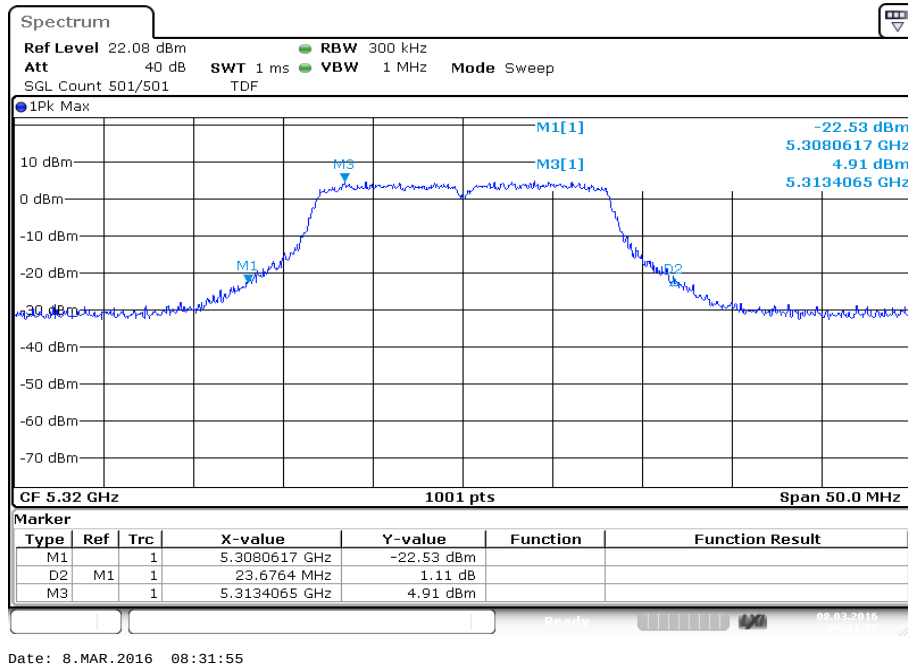
Plot 2: 5200 MHz



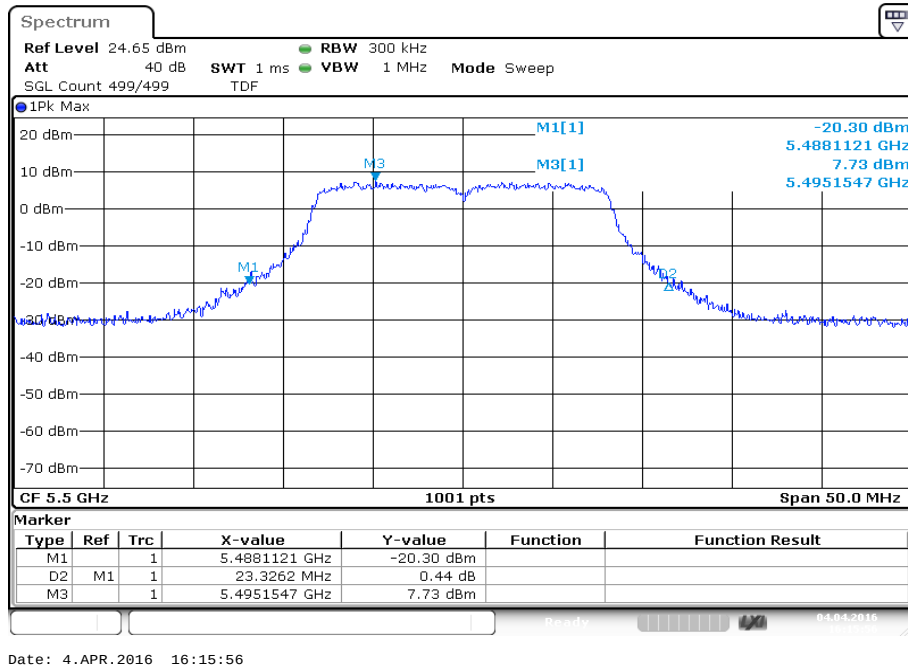
Plot 3: 5300 MHz



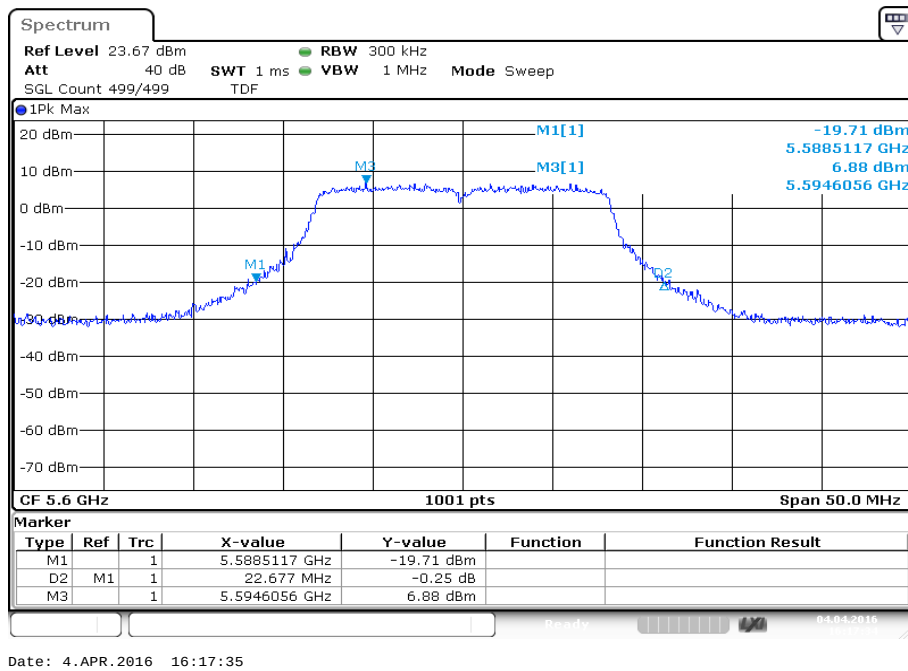
Plot 4: 5320 MHz



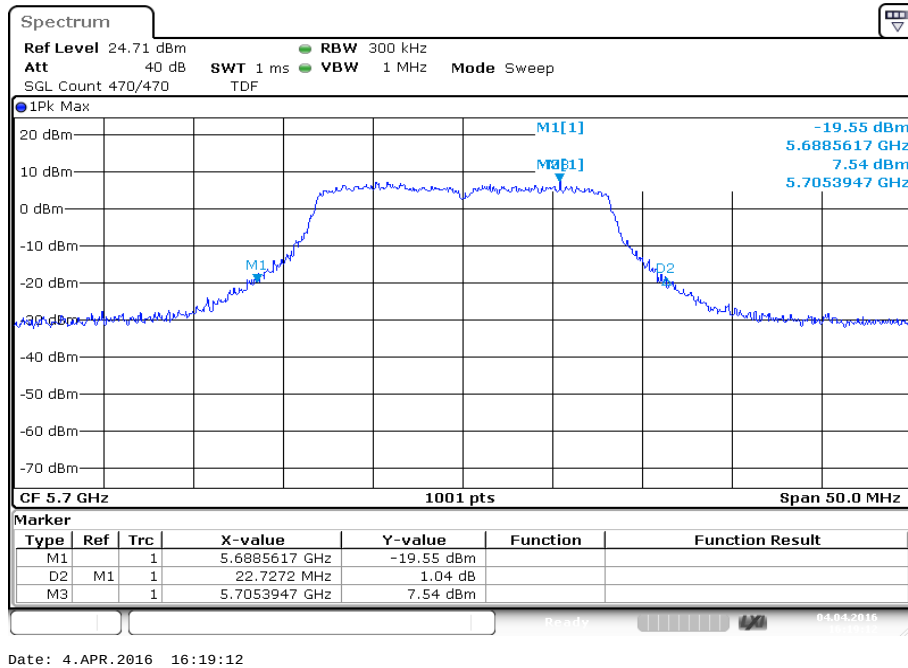
Plot 5: 5500 MHz



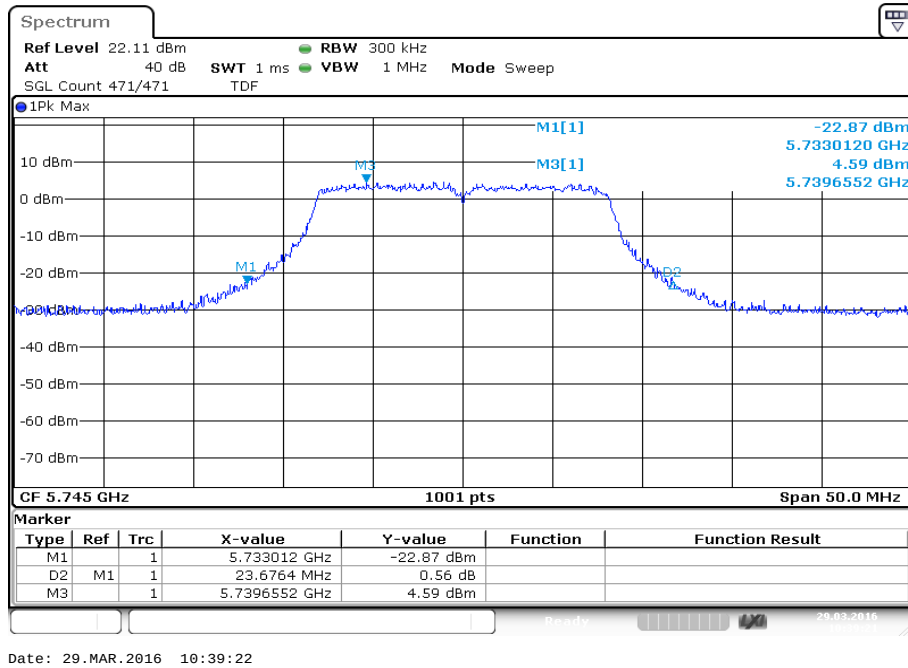
Plot 6: 5600 MHz



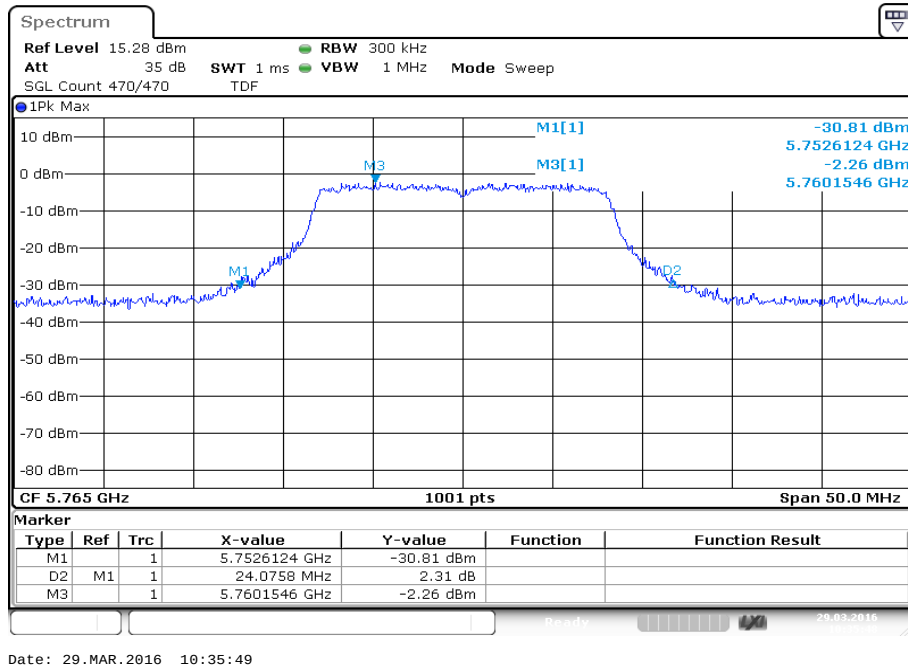
Plot 7: 5700 MHz



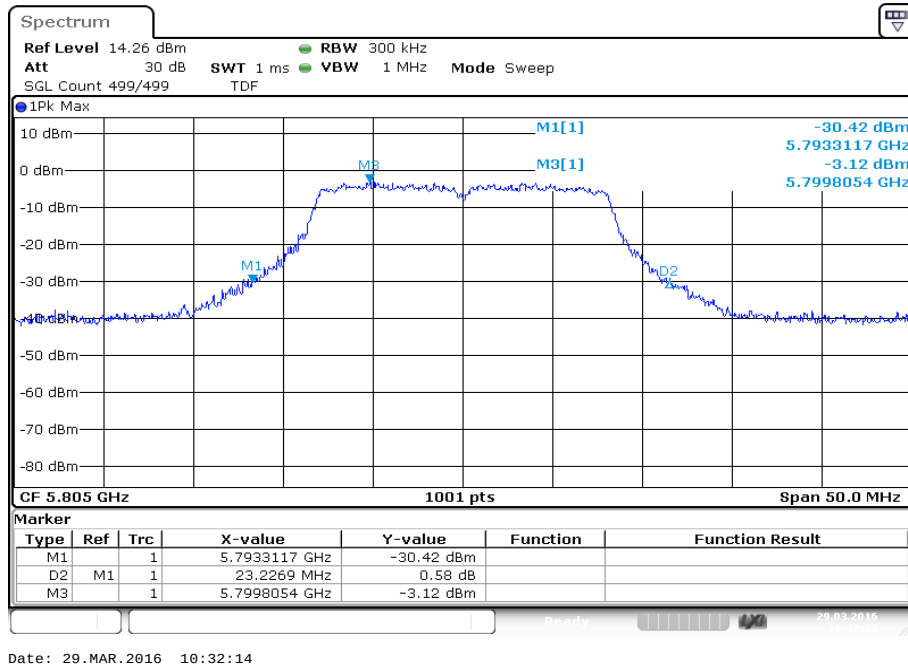
Plot 8: 5745 MHz



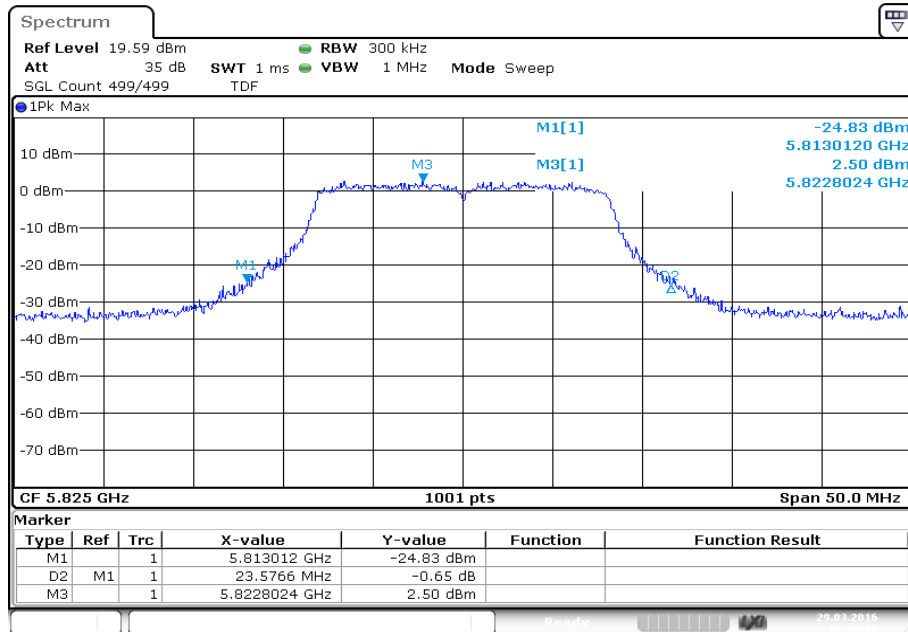
Plot 9: 5765 MHz



Plot 10: 5805 MHz



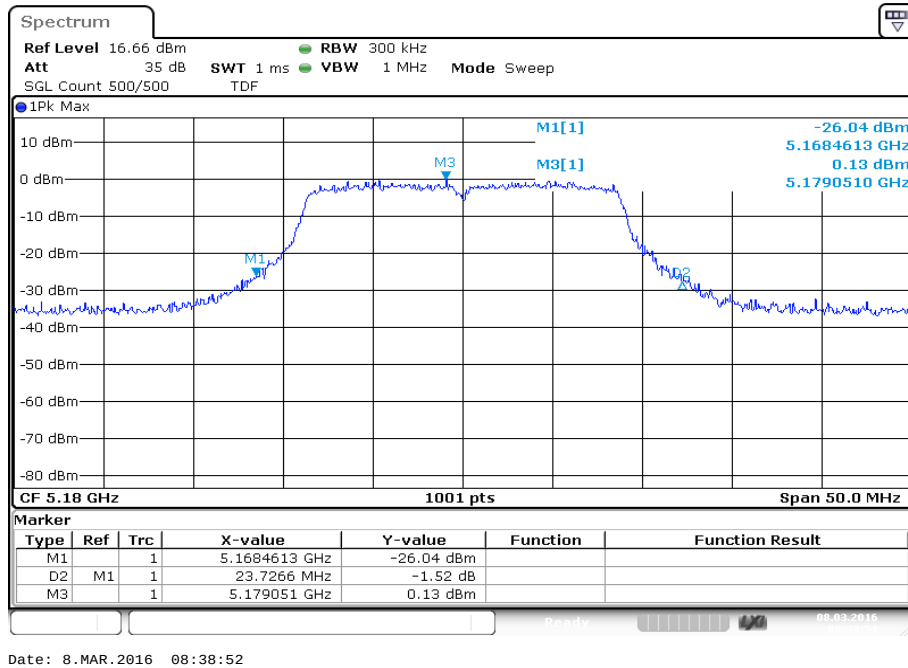
Plot 11: 5825 MHz



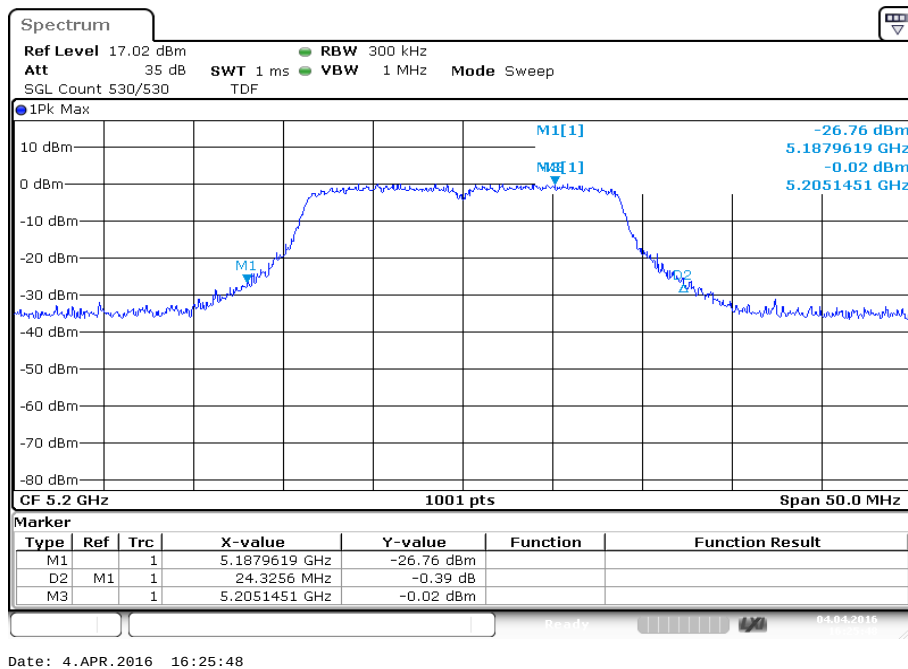
Date: 29.MAR.2016 10:28:37

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

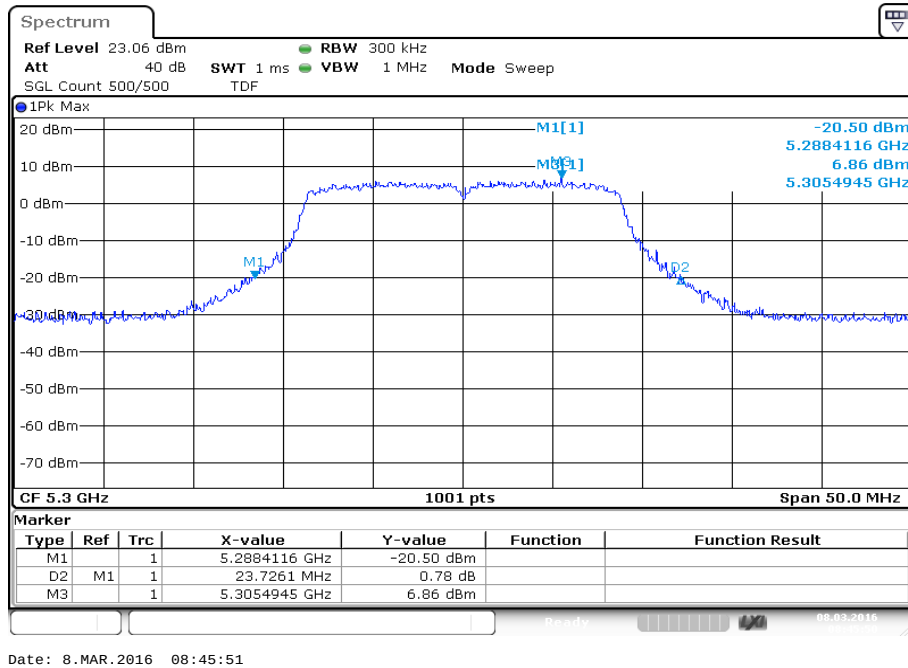
Plot 1: 5180 MHz



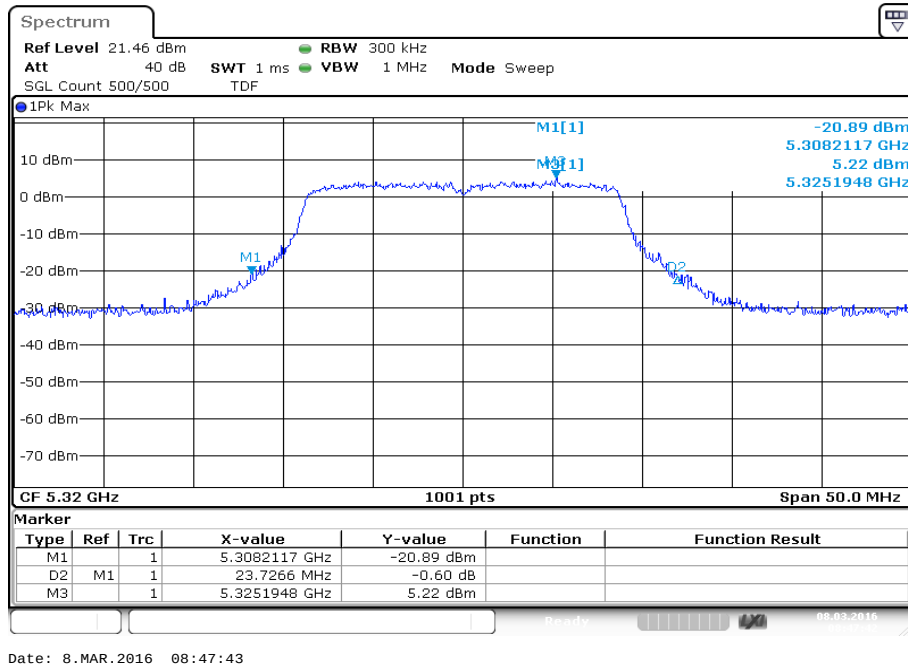
Plot 2: 5200 MHz



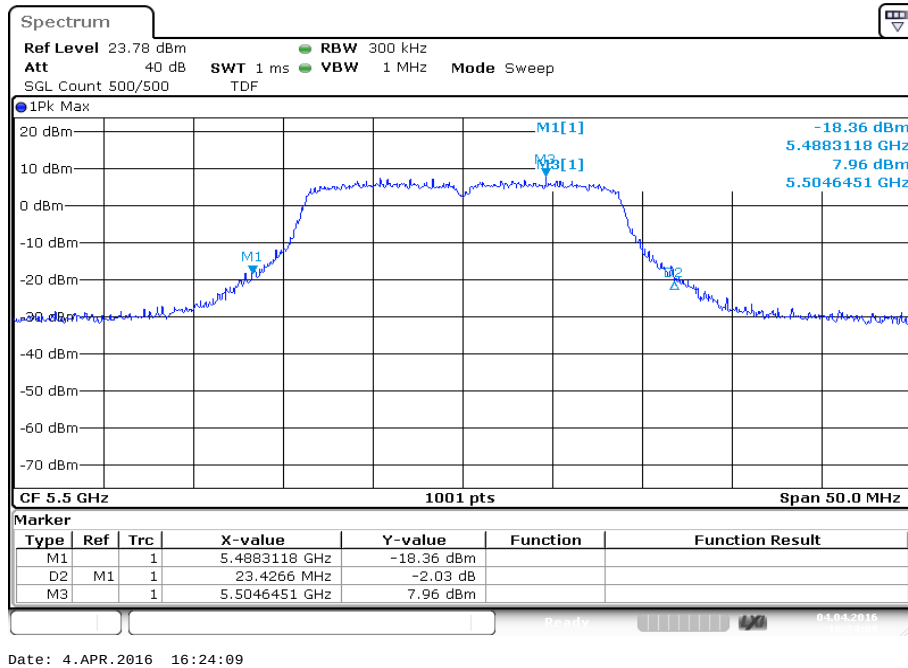
Plot 3: 5300 MHz



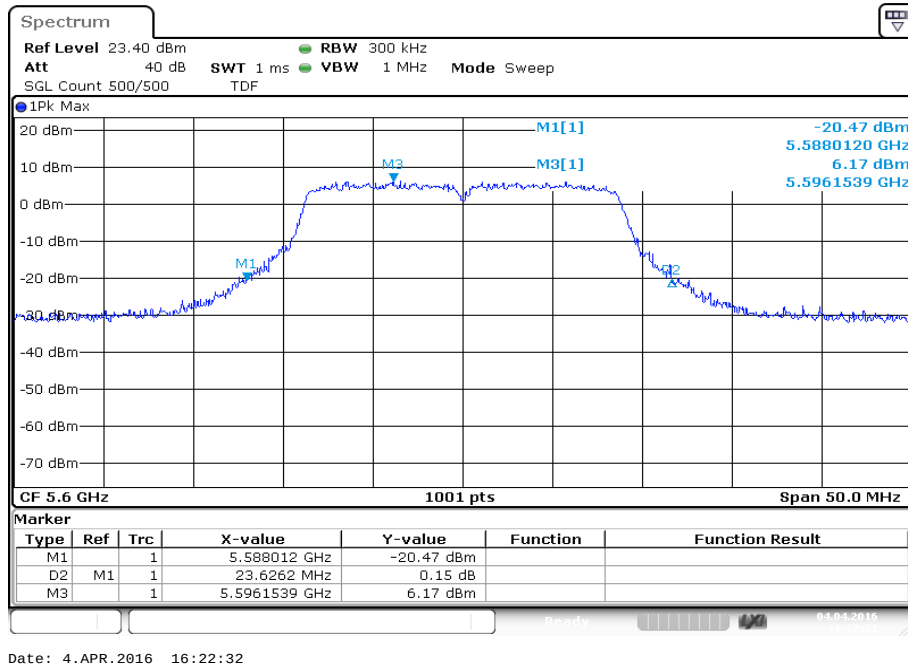
Plot 4: 5320 MHz



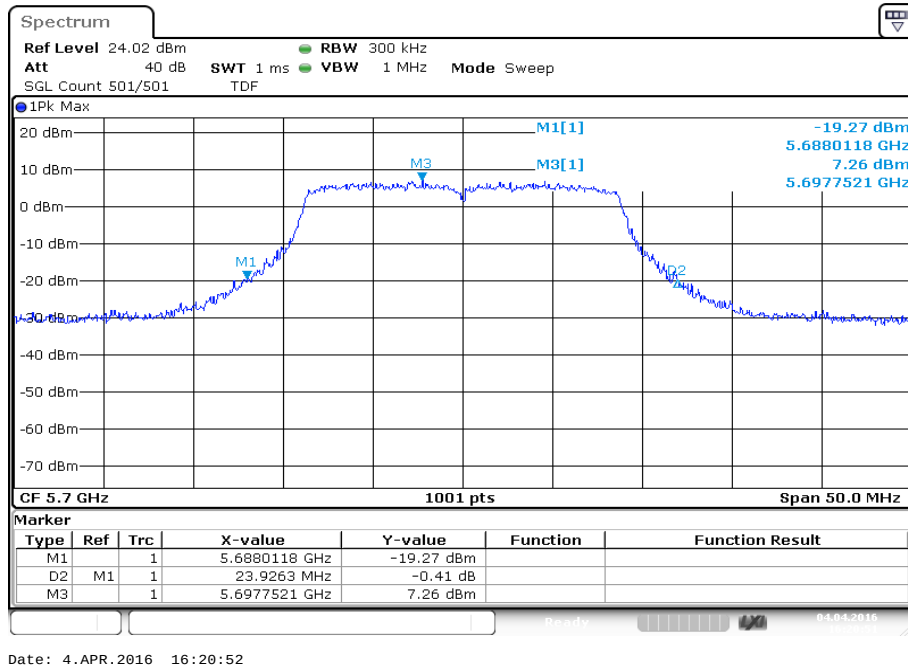
Plot 5: 5500 MHz



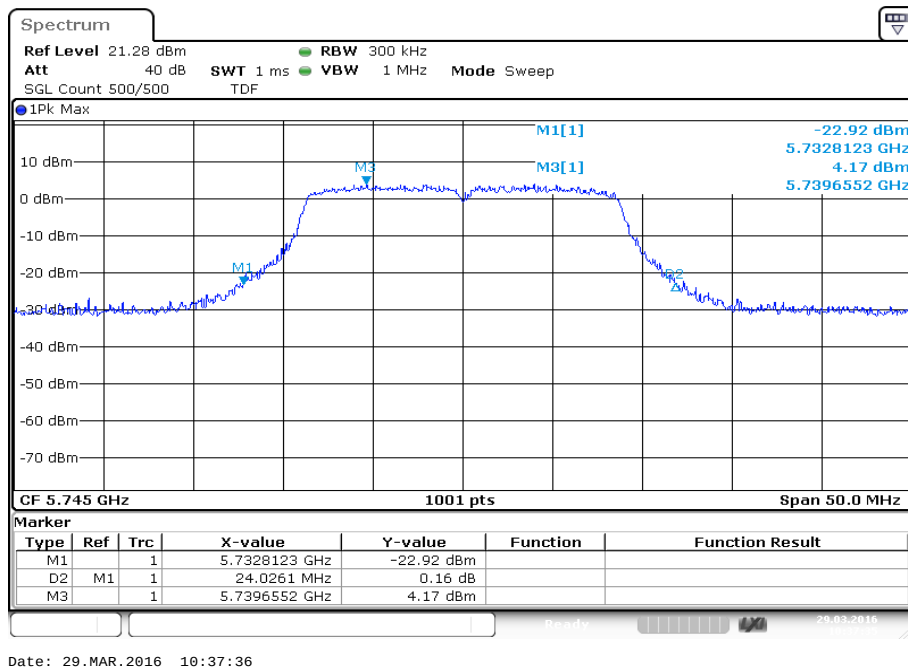
Plot 6: 5600 MHz



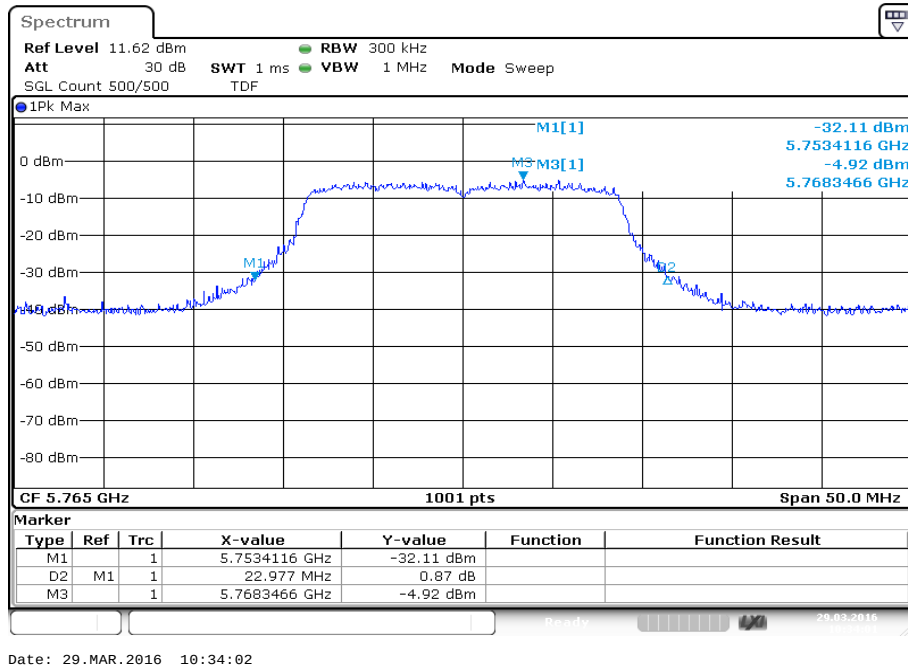
Plot 7: 5700 MHz



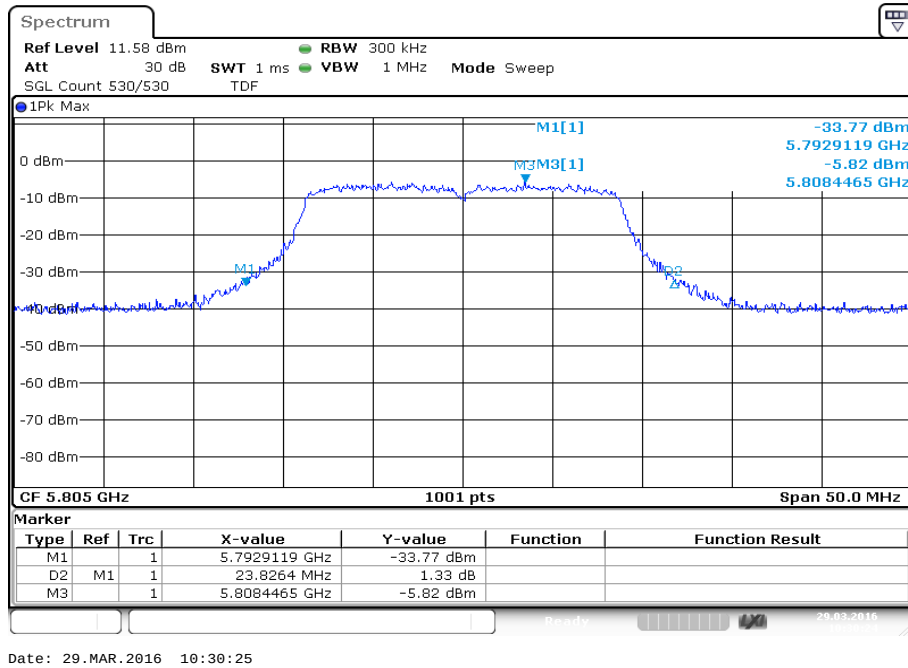
Plot 8: 5745 MHz



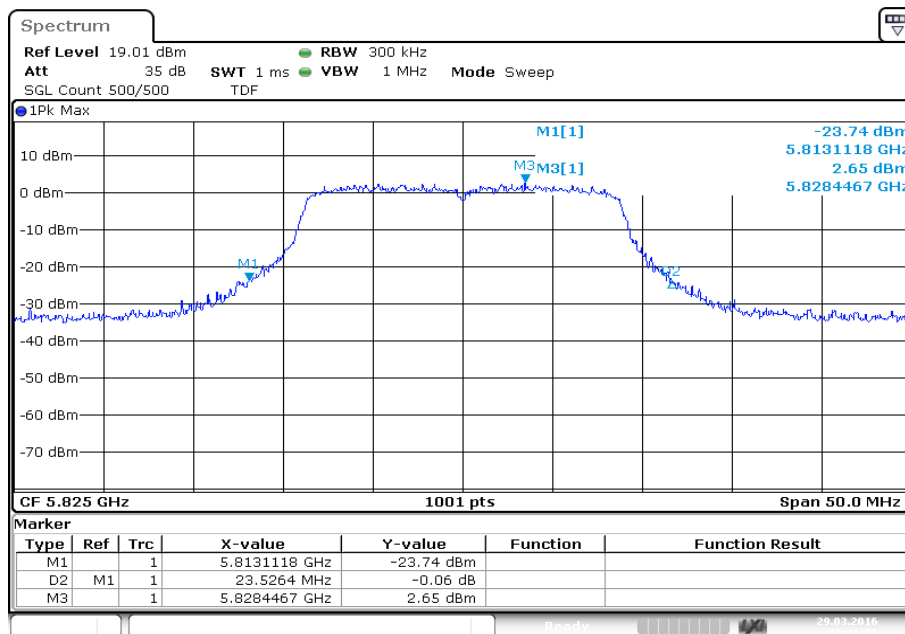
Plot 9: 5765 MHz



Plot 10: 5805 MHz



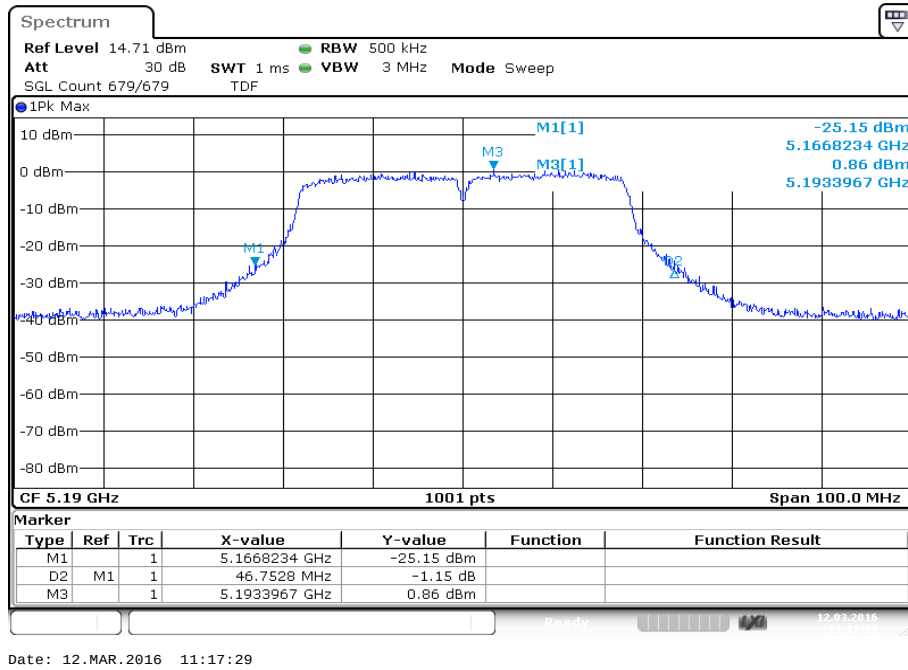
Plot 11: 5825 MHz



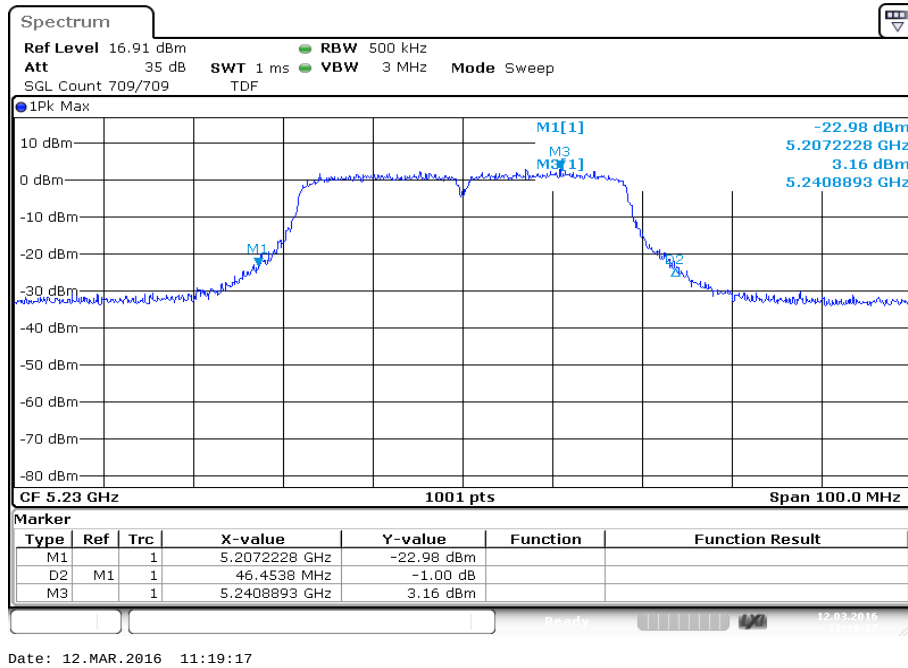
Date: 29.MAR.2016 10:26:46

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

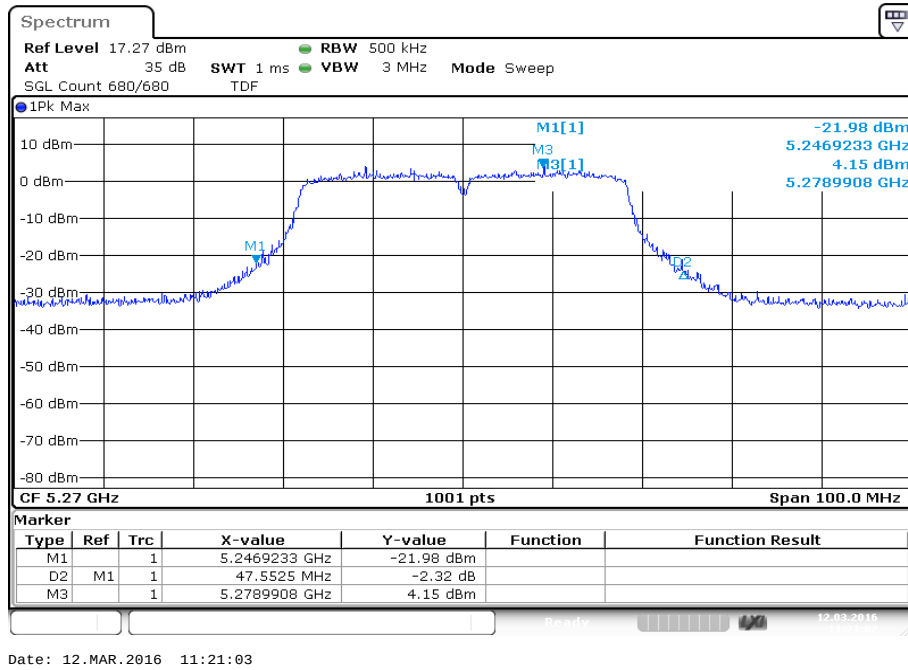
Plot 1: 5190 MHz



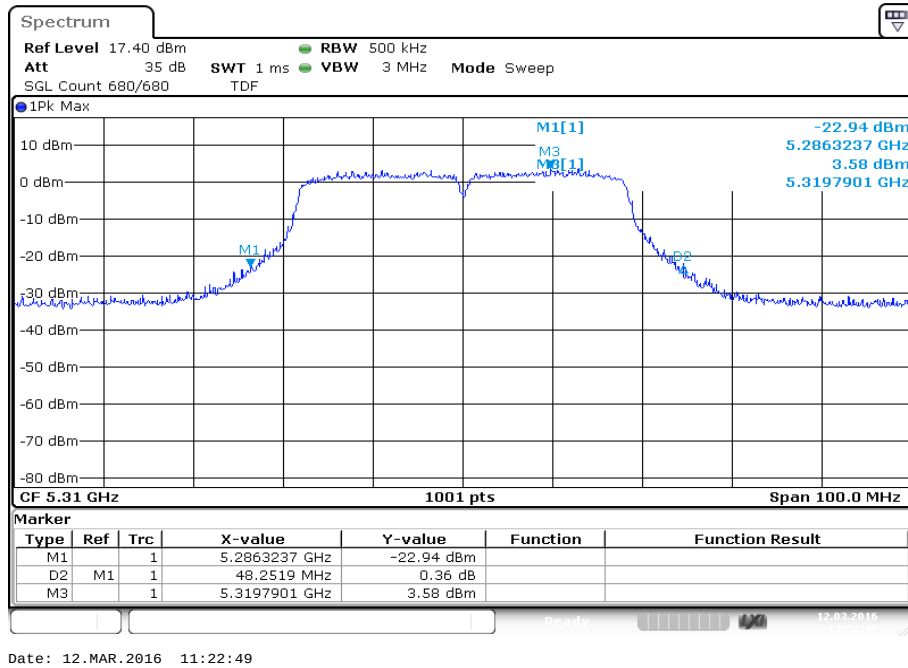
Plot 2: 5230 MHz



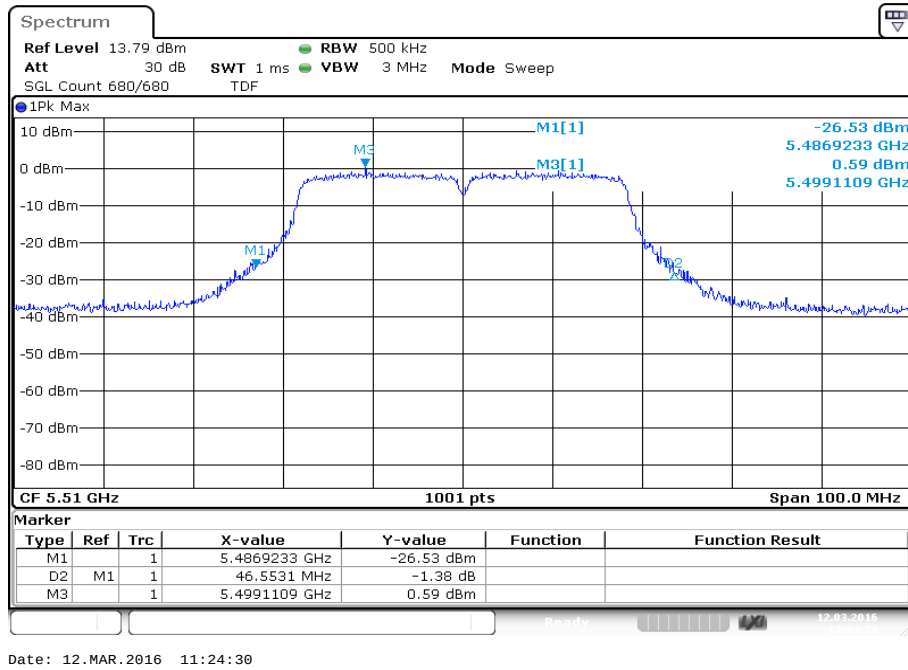
Plot 3: 5270 MHz



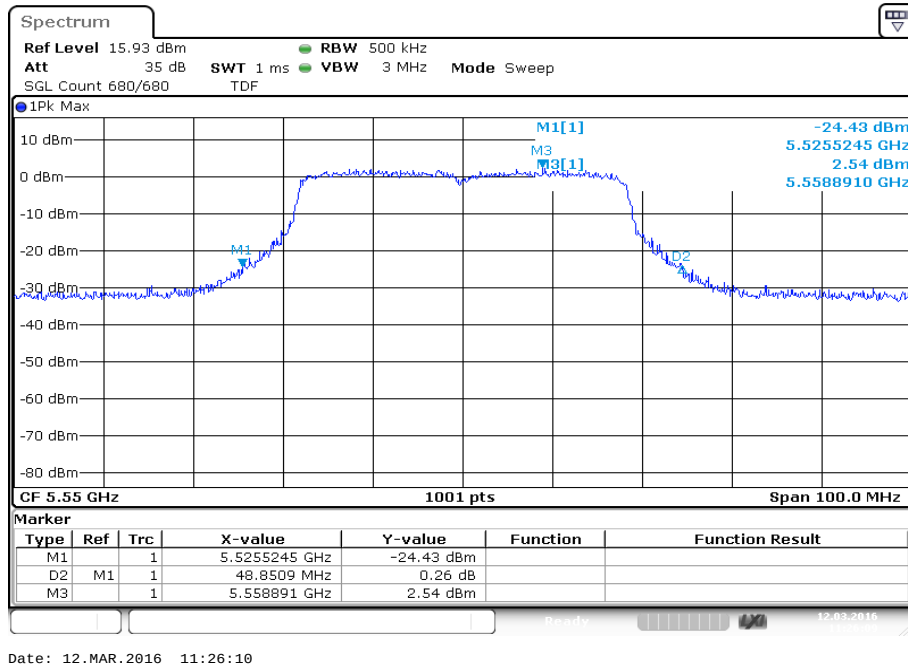
Plot 4: 5310 MHz



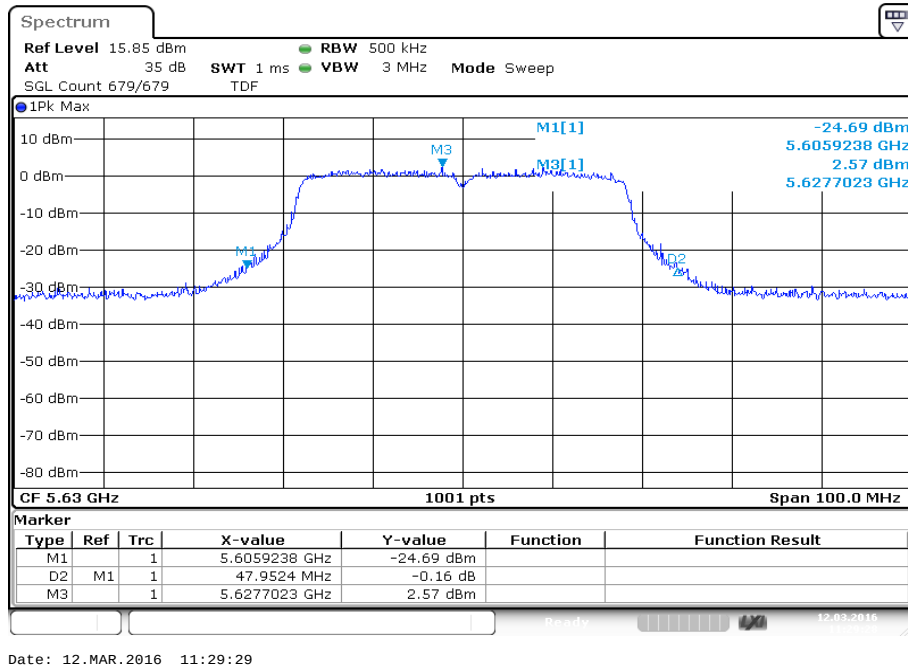
Plot 5: 5510 MHz



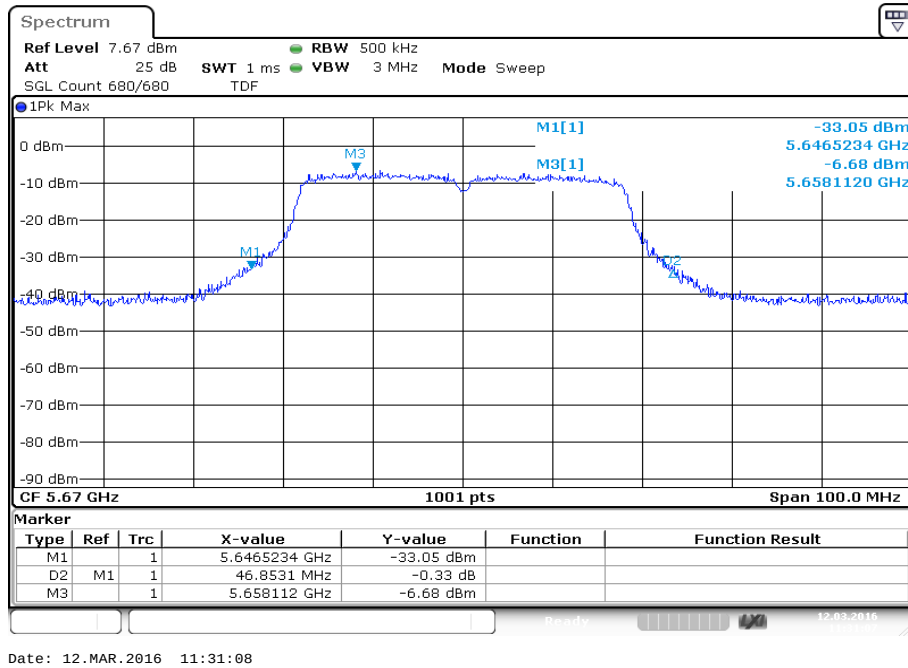
Plot 6: 5550 MHz



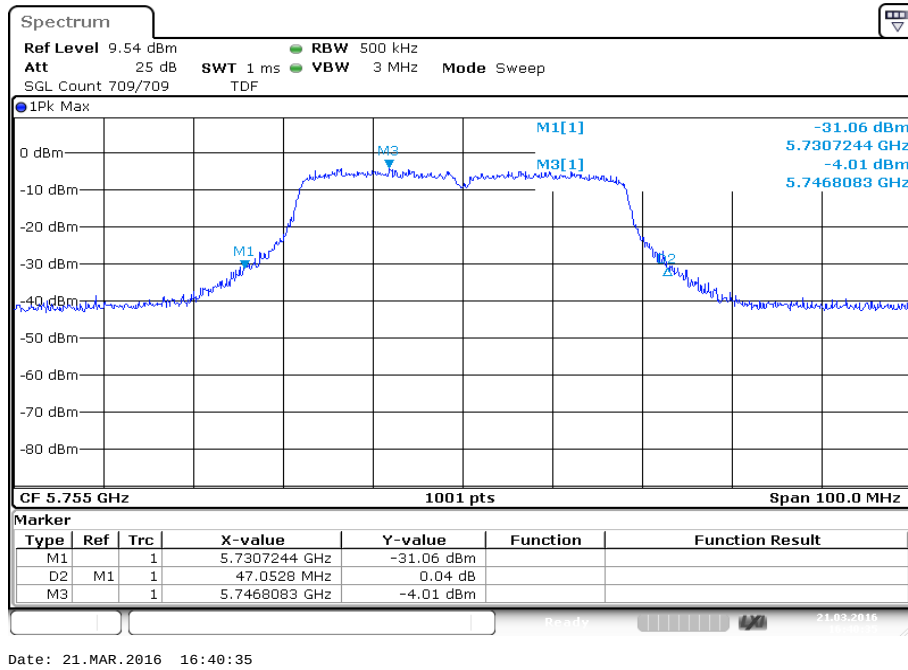
Plot 7: 5630 MHz



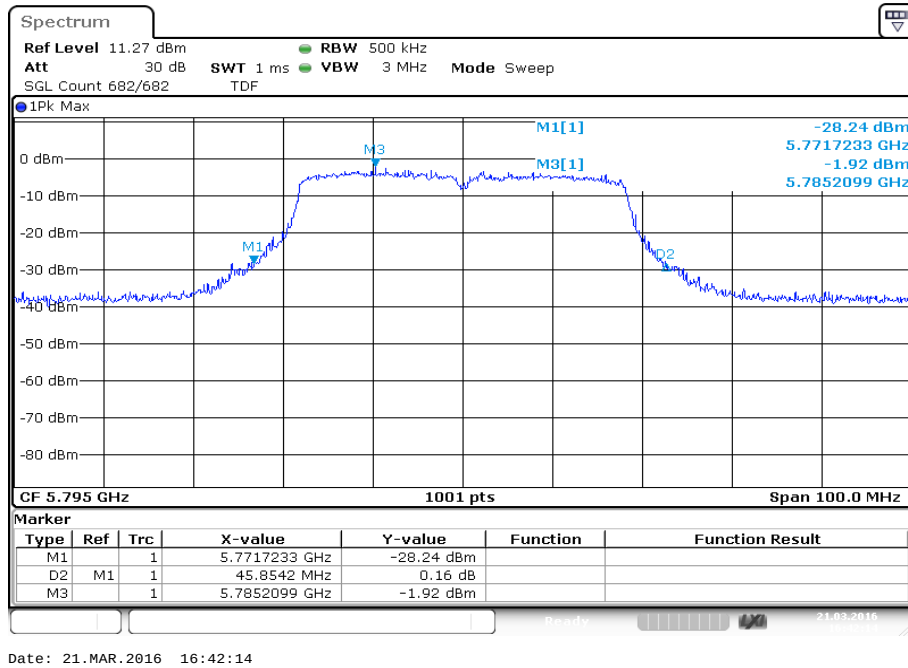
Plot 8: 5670 MHz



Plot 9: 5755 MHz

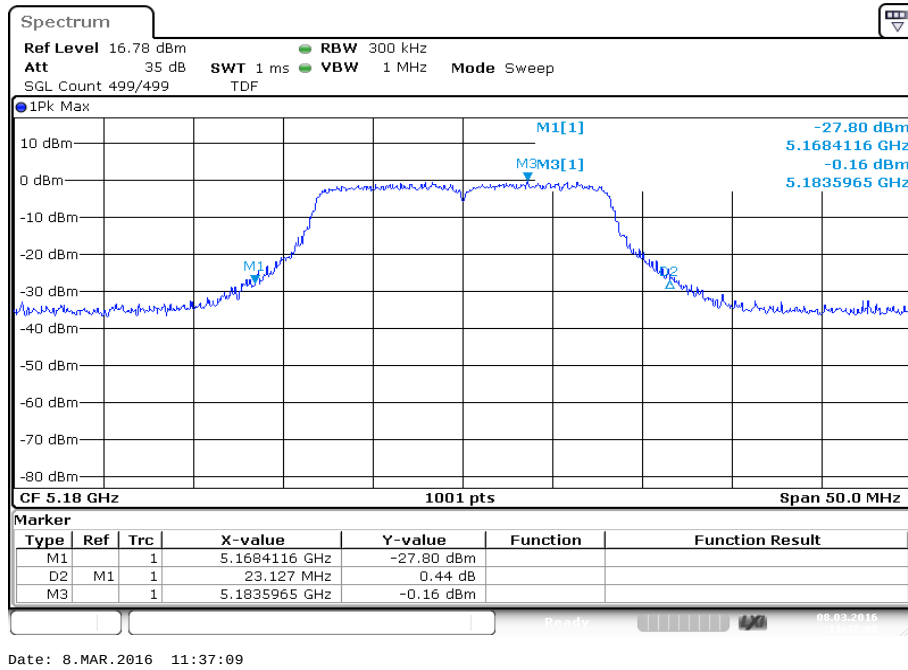


Plot 10: 5795 MHz

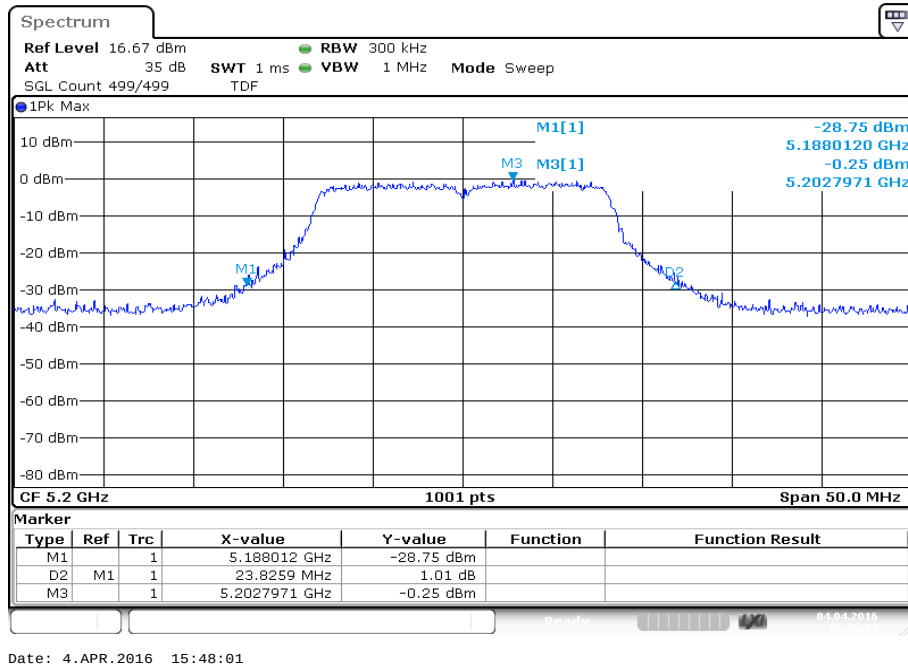


Plots: OFDM / a – mode, antenna port 2

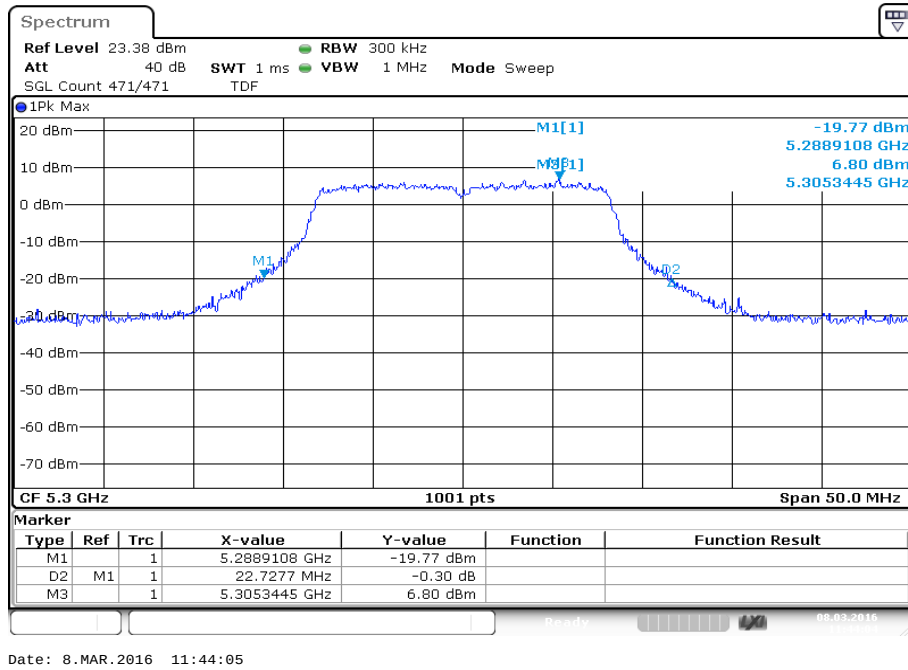
Plot 1: 5180 MHz



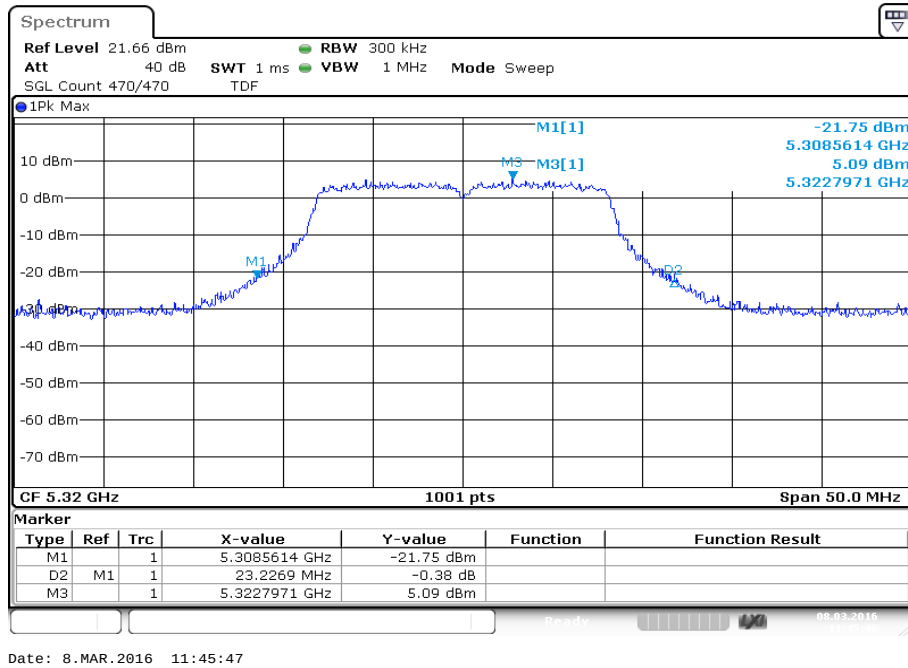
Plot 2: 5200 MHz



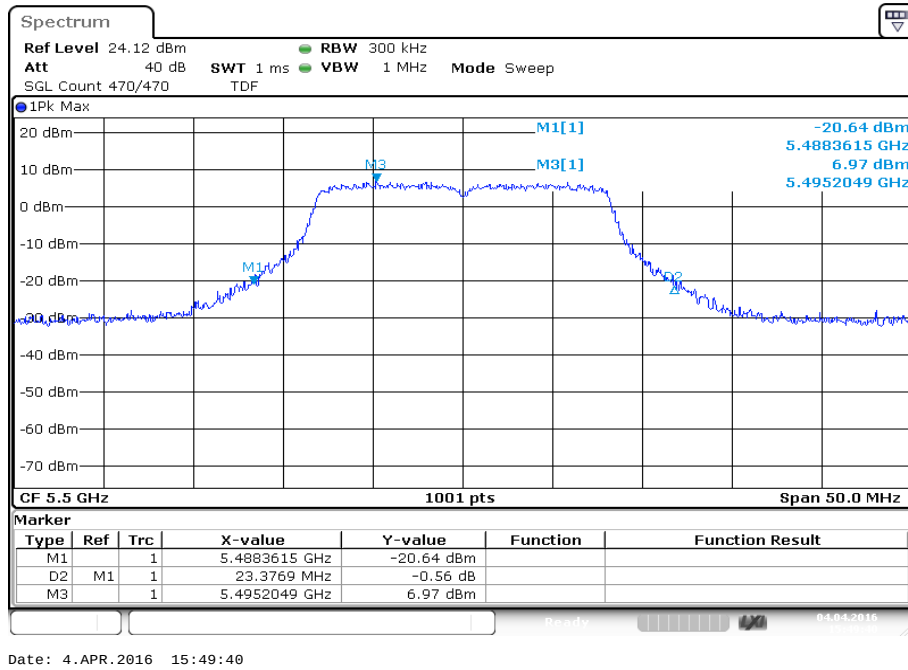
Plot 3: 5300 MHz



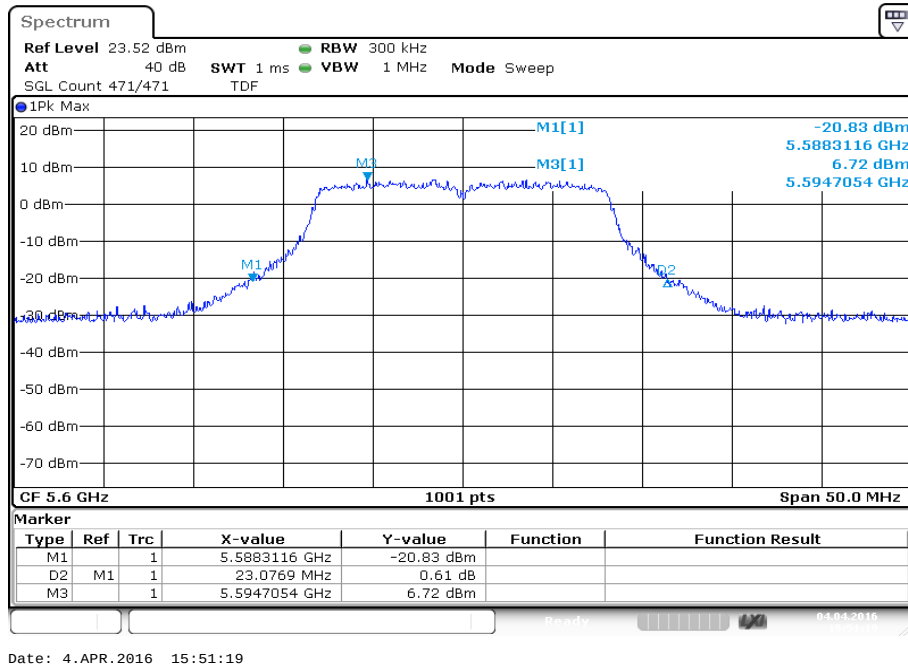
Plot 4: 5320 MHz



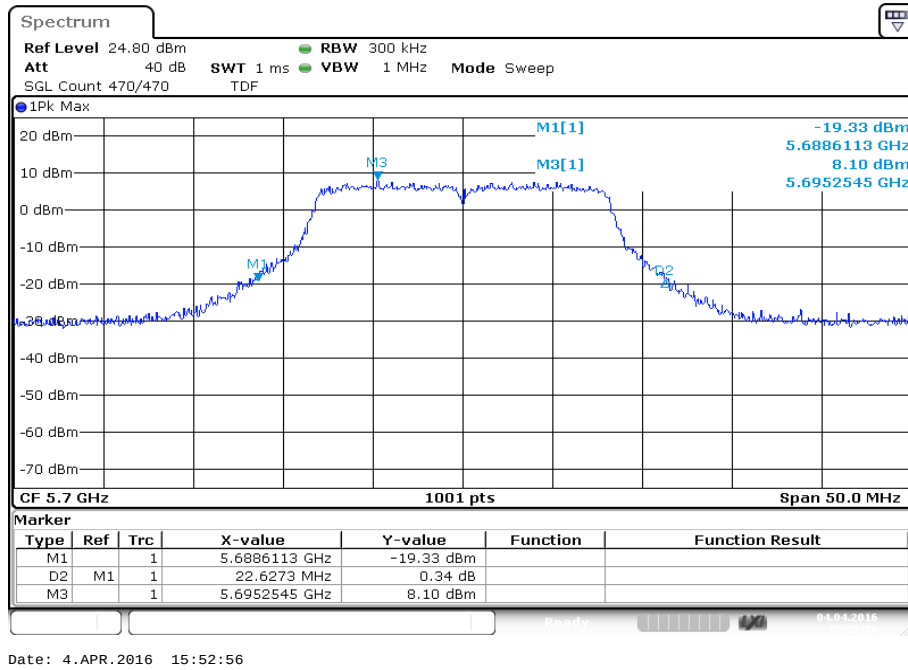
Plot 5: 5500 MHz



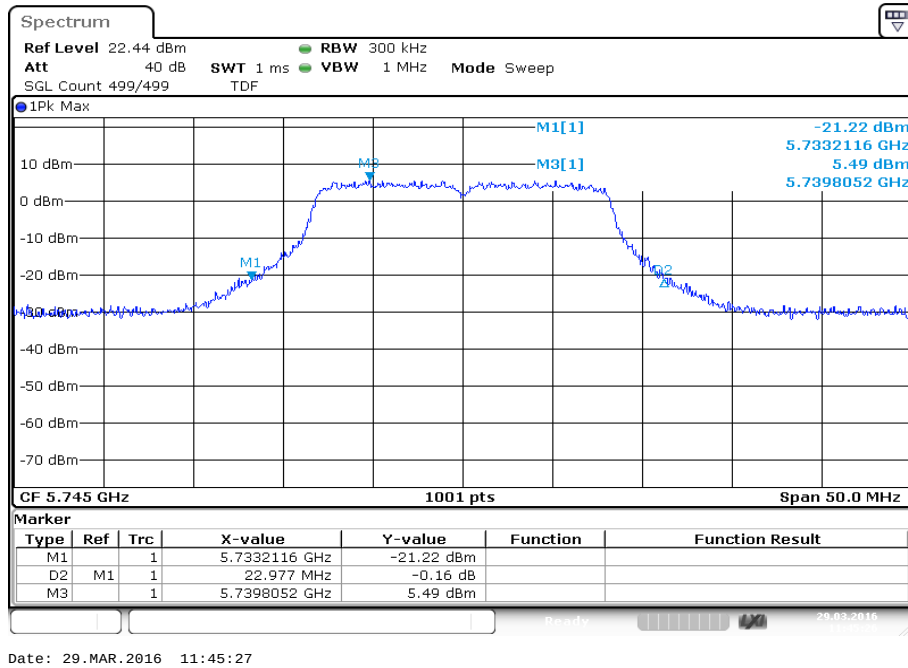
Plot 6: 5600 MHz



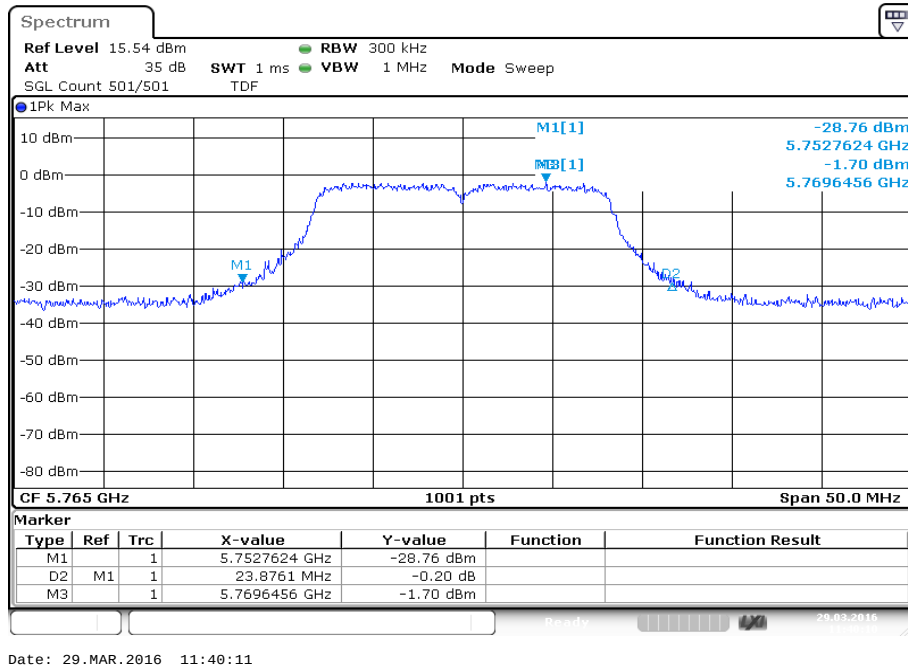
Plot 7: 5700 MHz



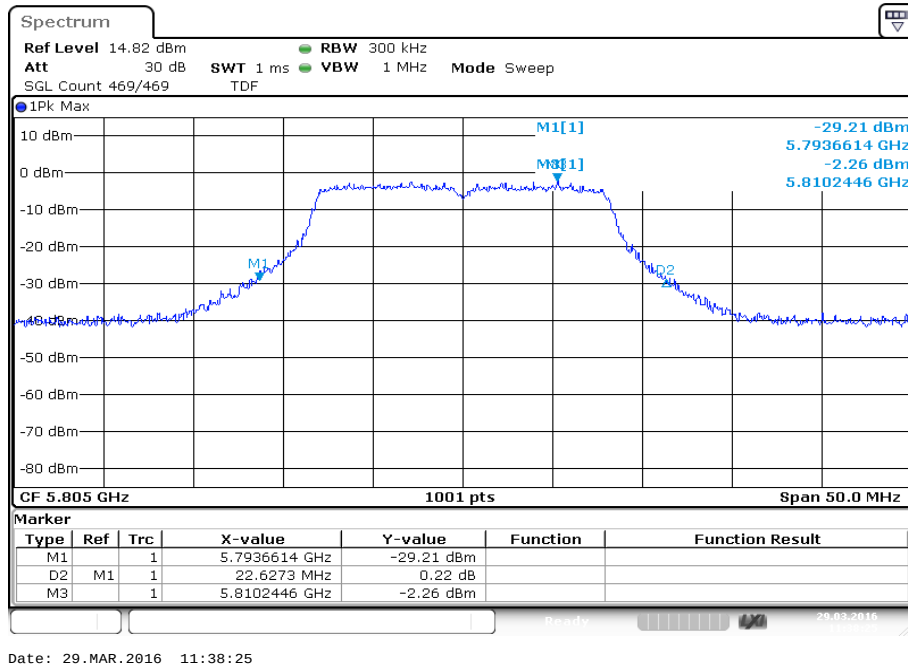
Plot 8: 5745 MHz



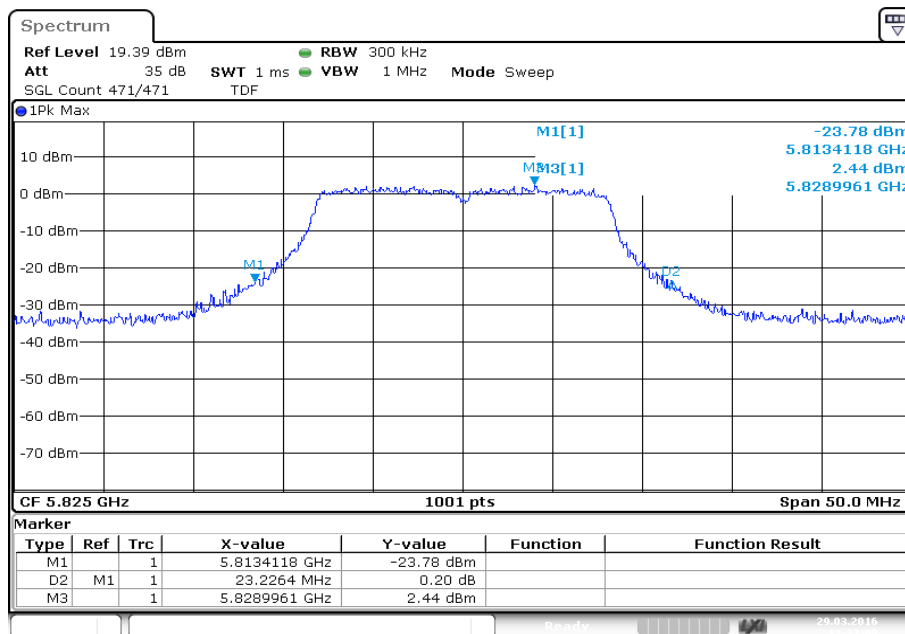
Plot 9: 5765 MHz



Plot 10: 5805 MHz



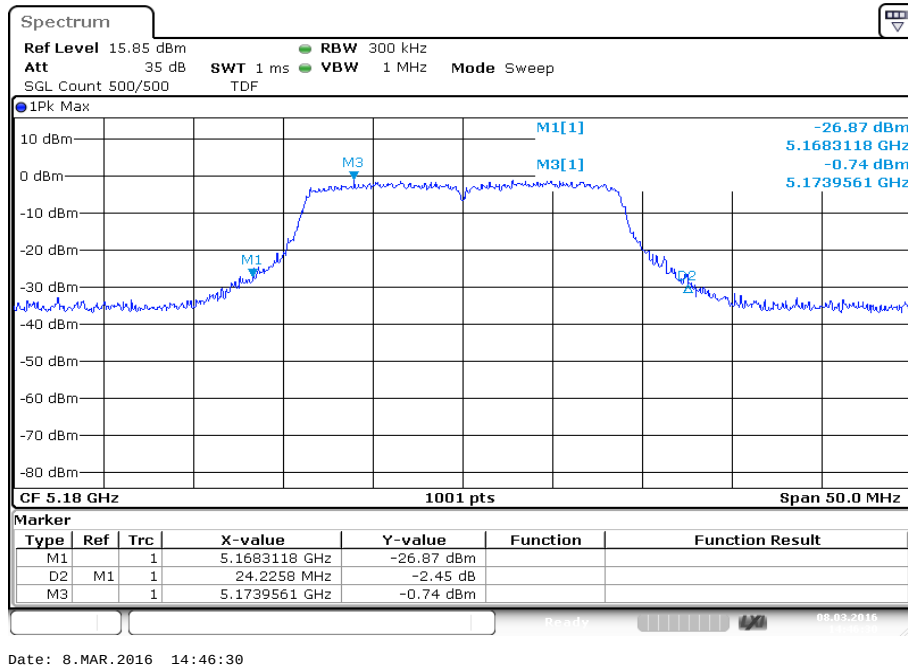
Plot 11: 5825 MHz



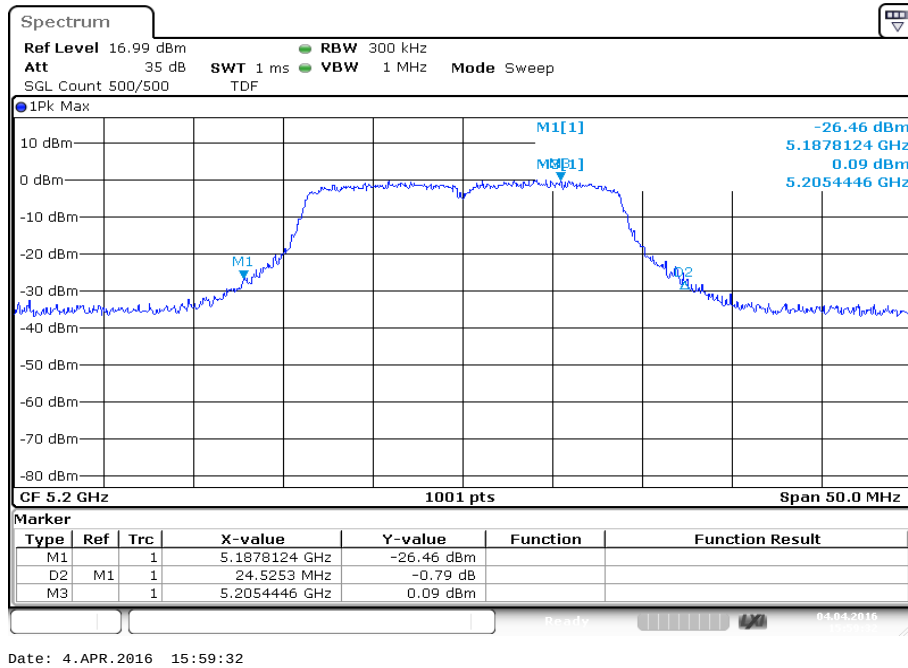
Date: 29.MAR.2016 11:33:09

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

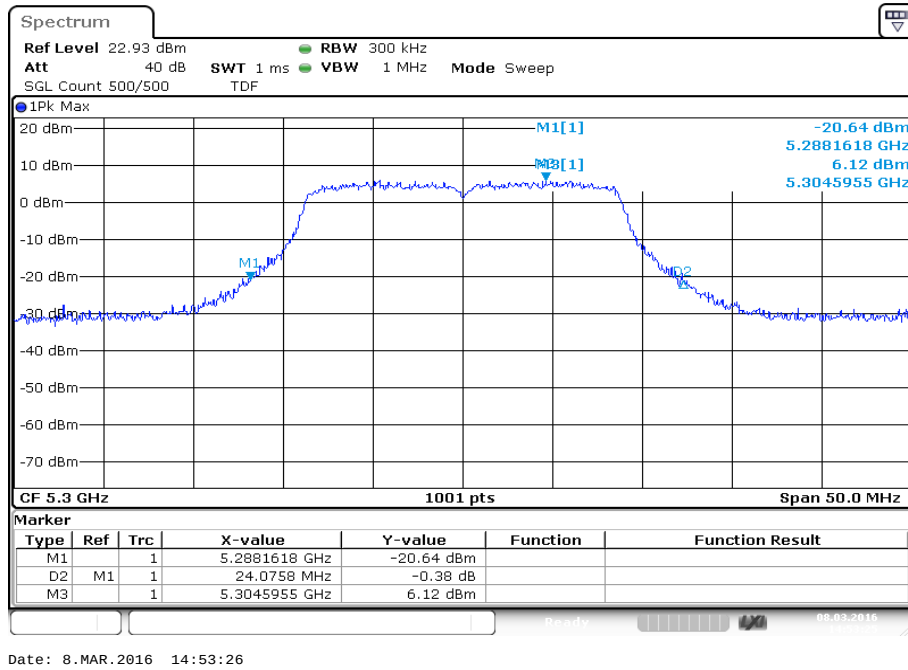
Plot 1: 5180 MHz



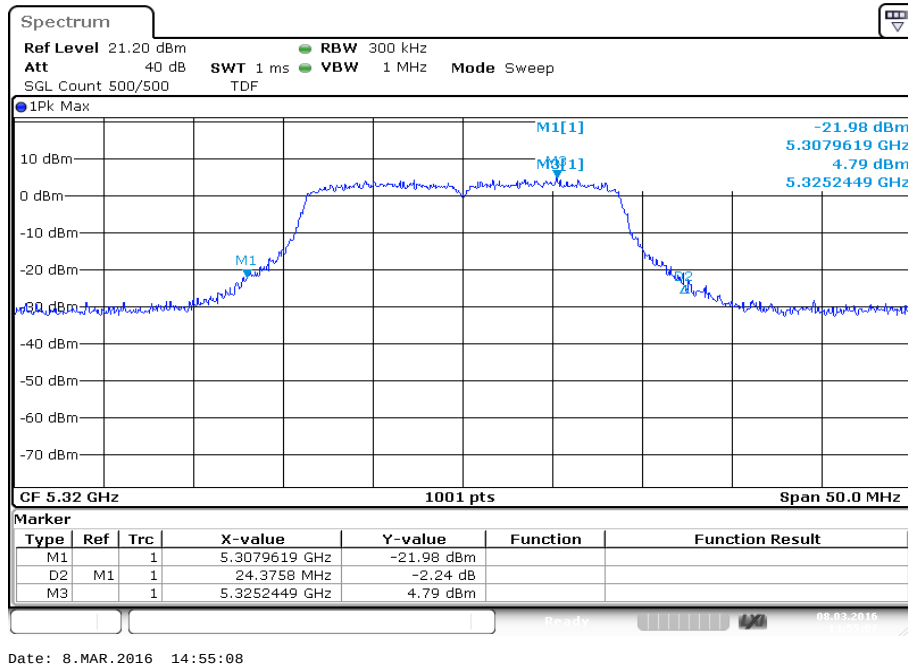
Plot 2: 5200 MHz



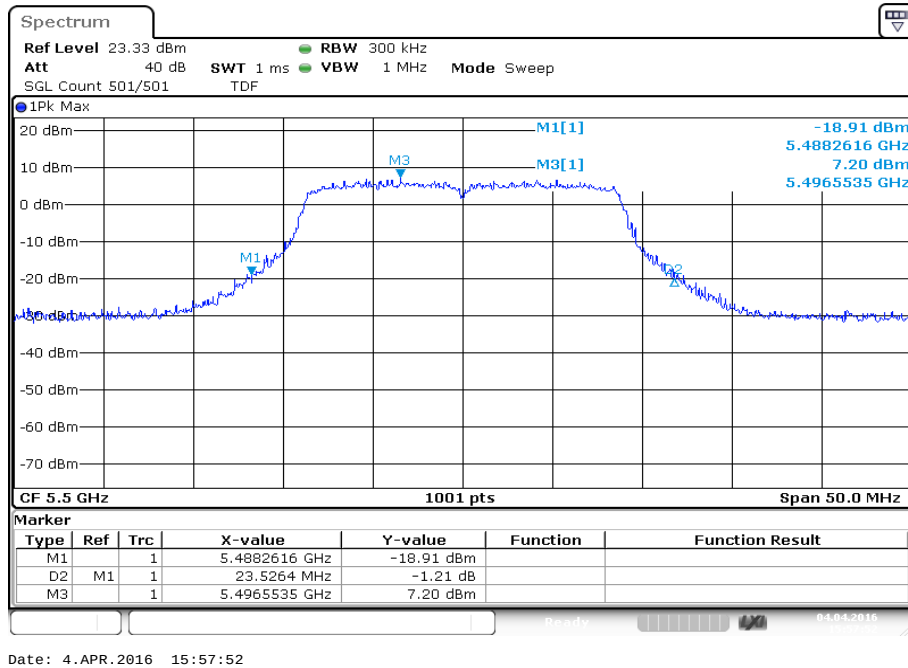
Plot 3: 5300 MHz



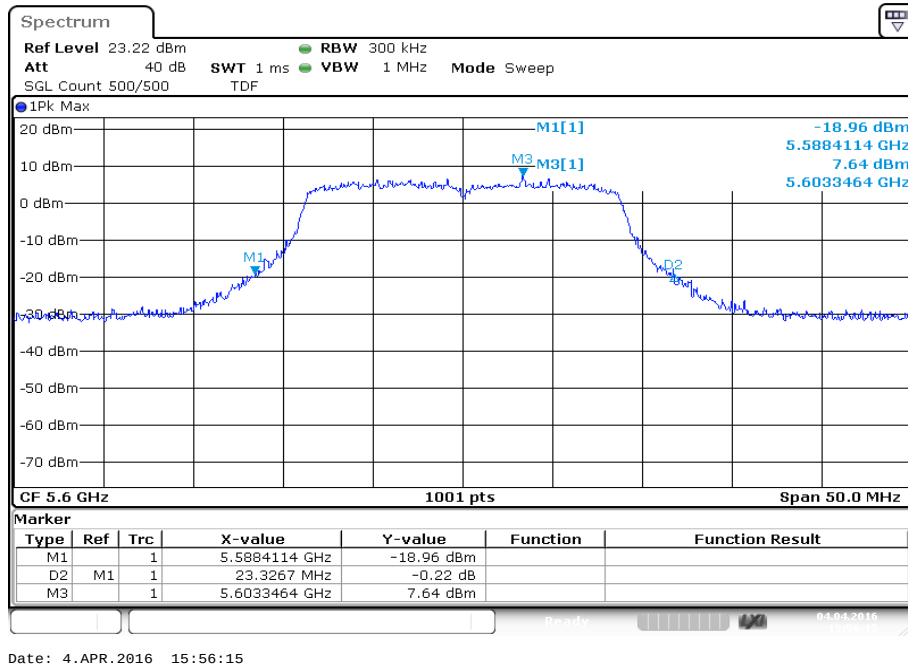
Plot 4: 5320 MHz



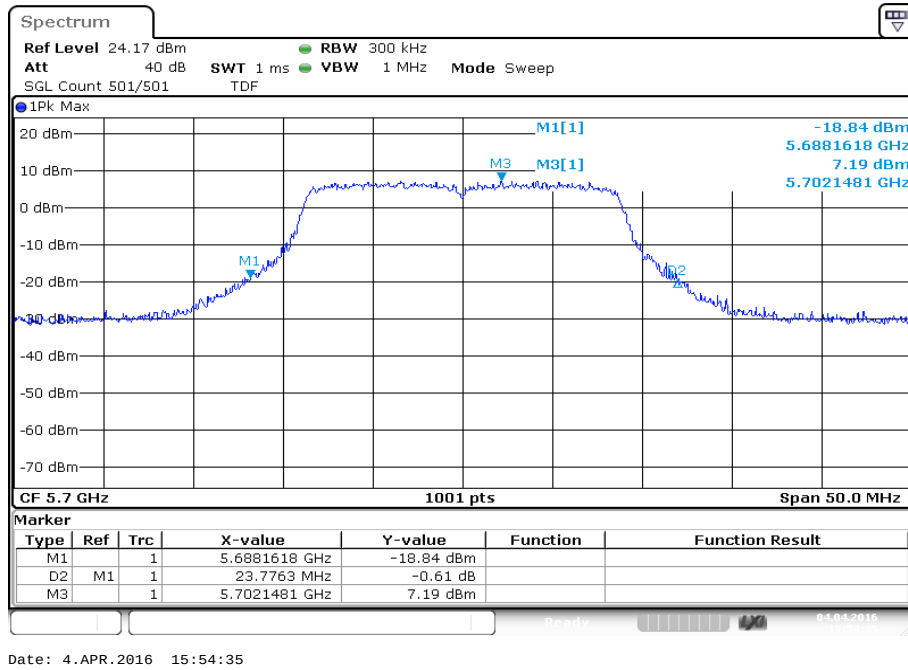
Plot 5: 5500 MHz



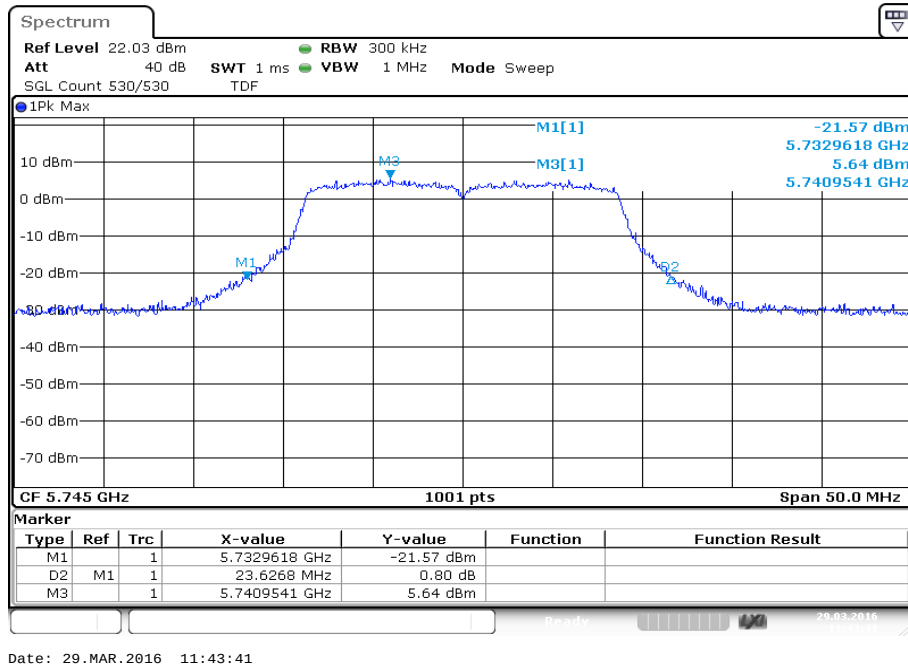
Plot 6: 5600 MHz



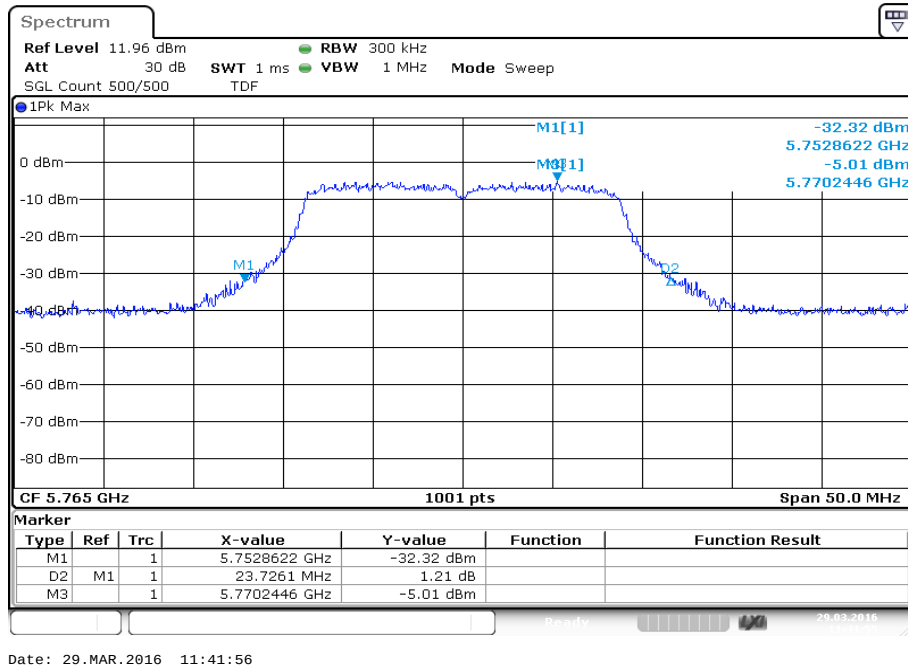
Plot 7: 5700 MHz



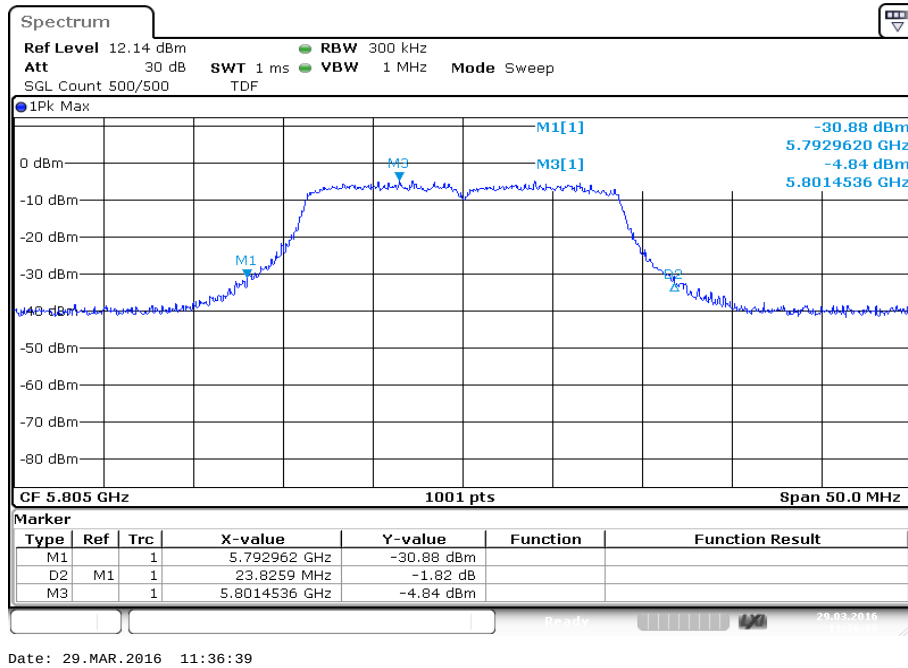
Plot 8: 5745 MHz



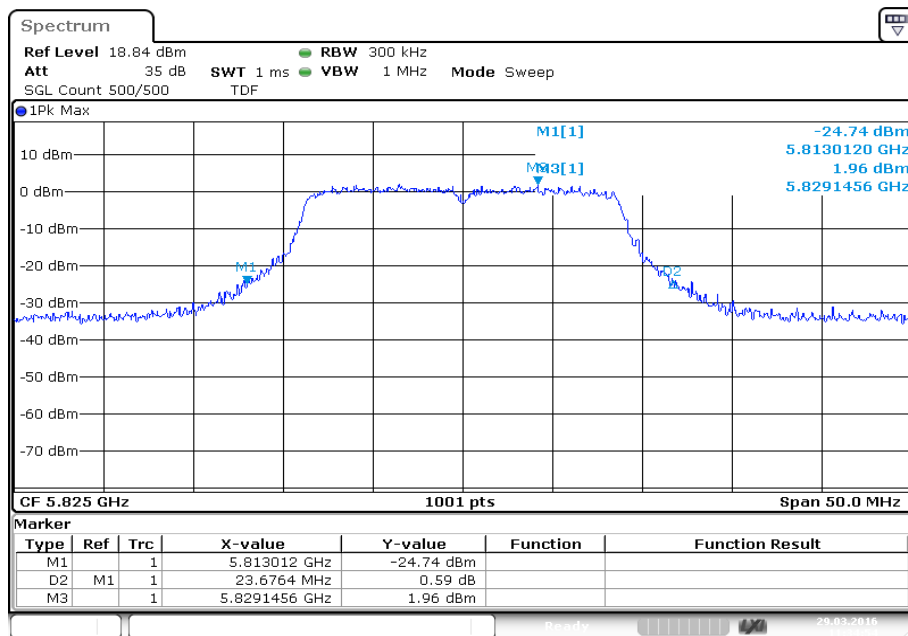
Plot 9: 5765 MHz



Plot 10: 5805 MHz



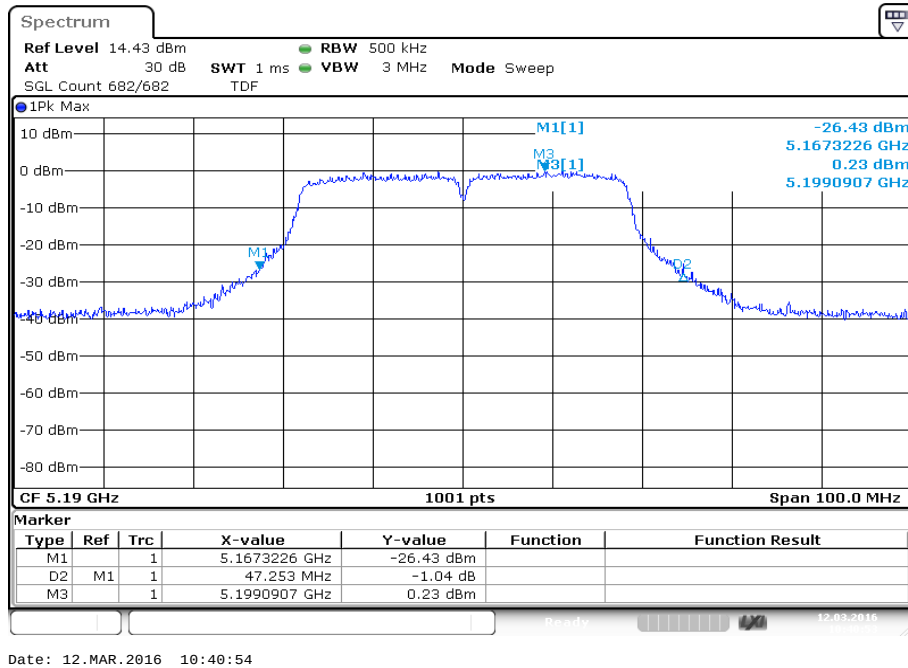
Plot 11: 5825 MHz



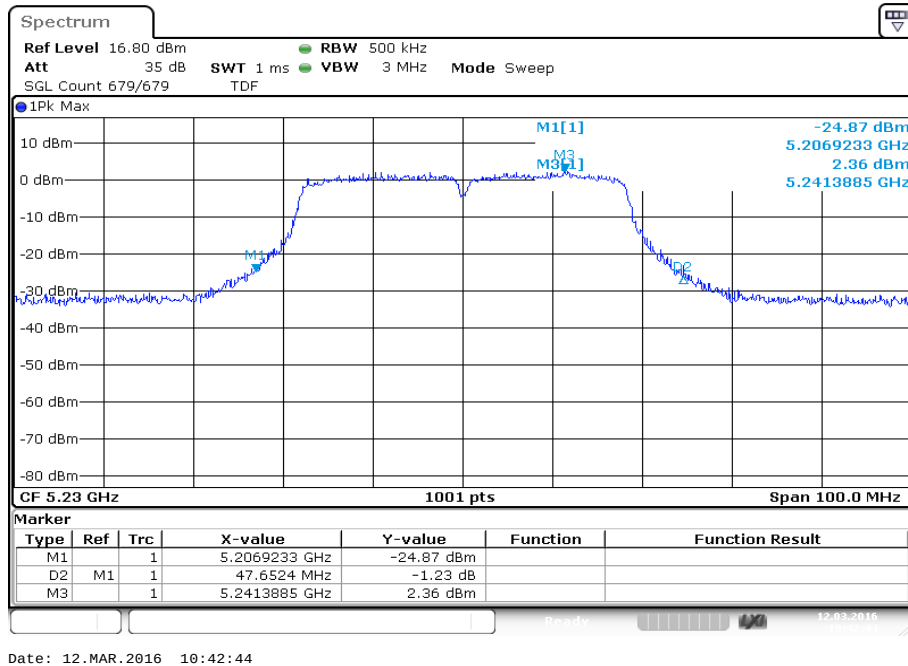
Date: 29.MAR.2016 11:34:55

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

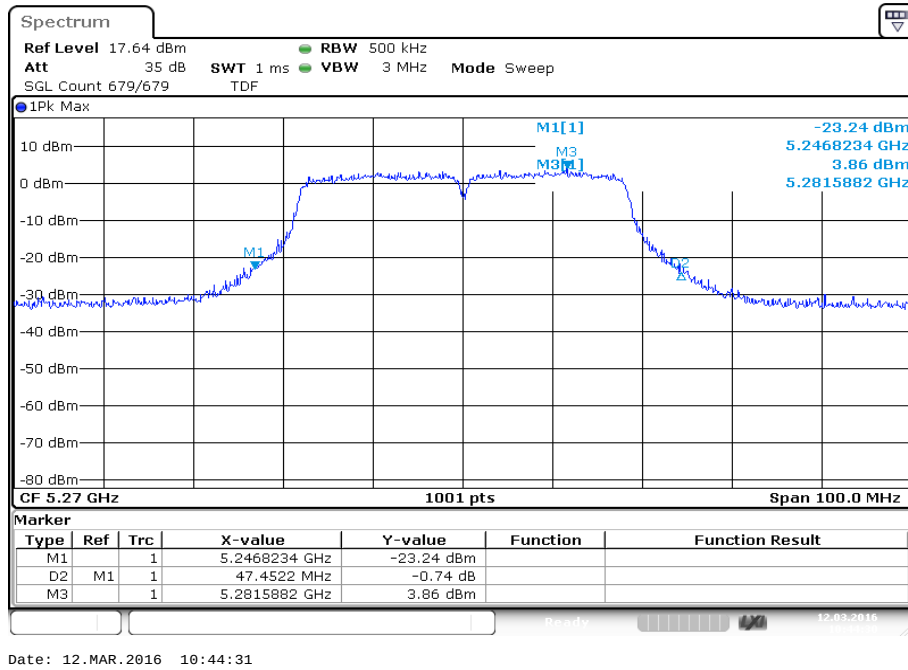
Plot 1: 5190 MHz



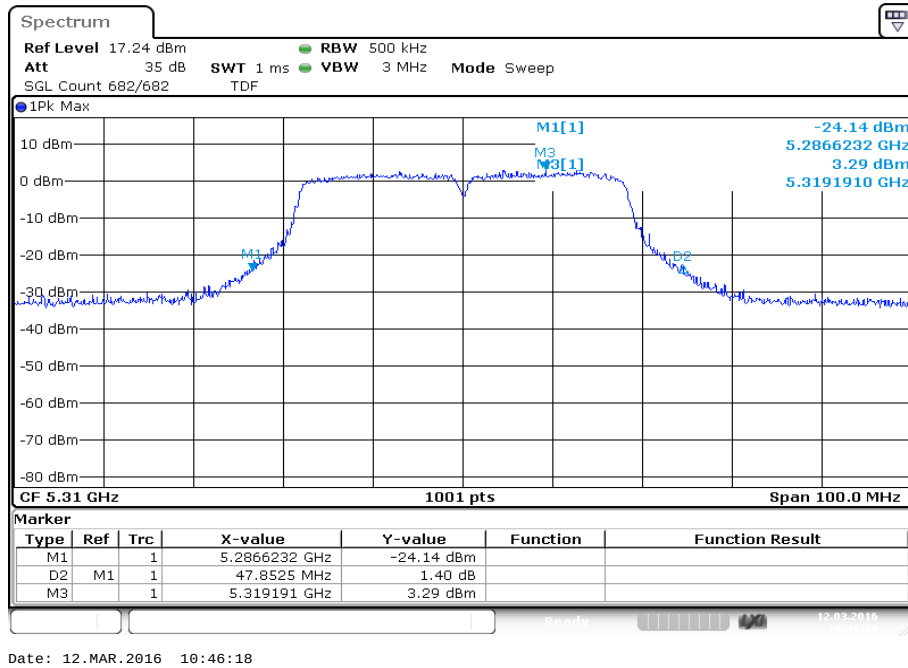
Plot 2: 5230 MHz



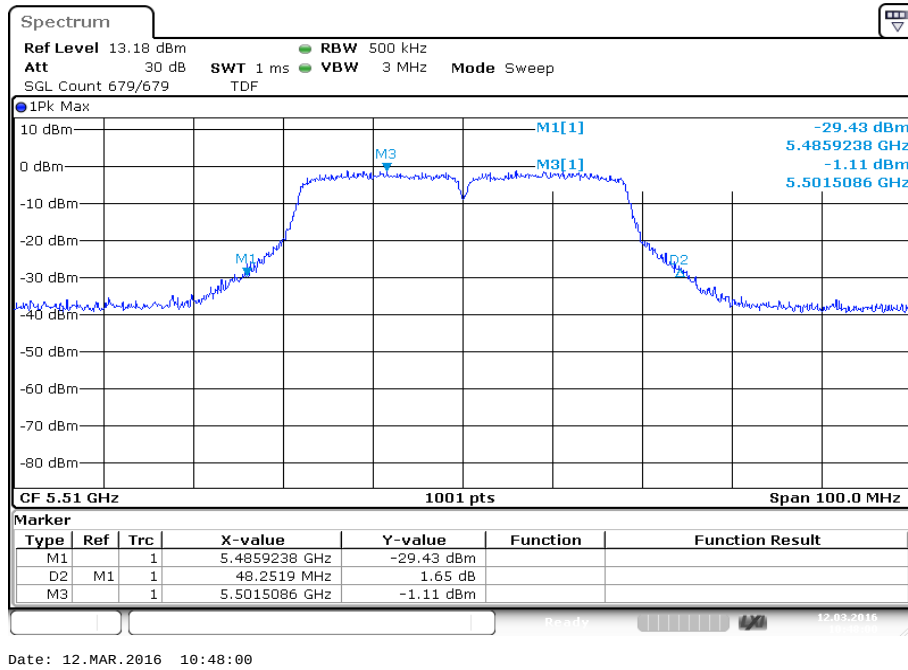
Plot 3: 5270 MHz



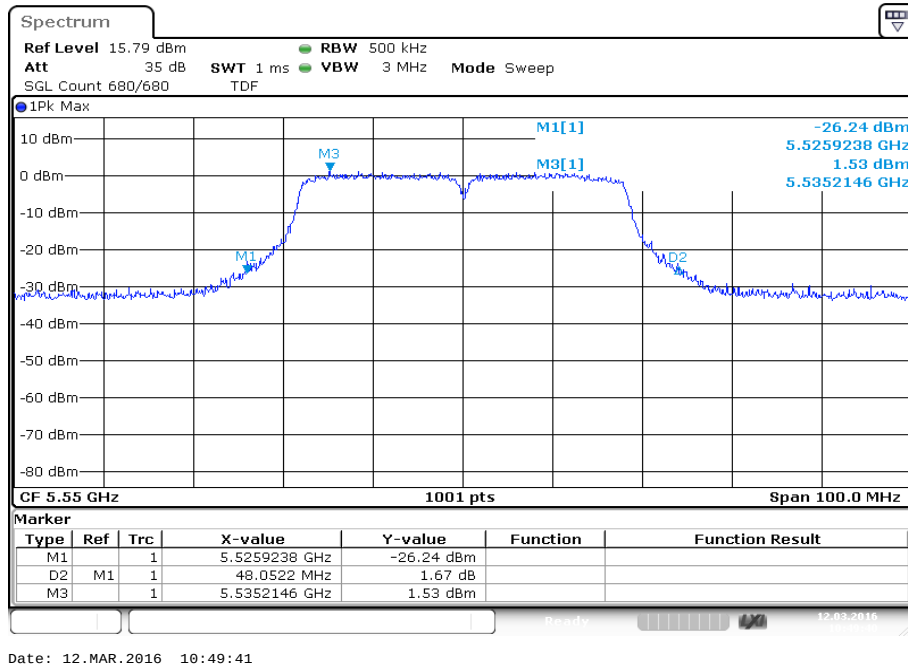
Plot 4: 5310 MHz



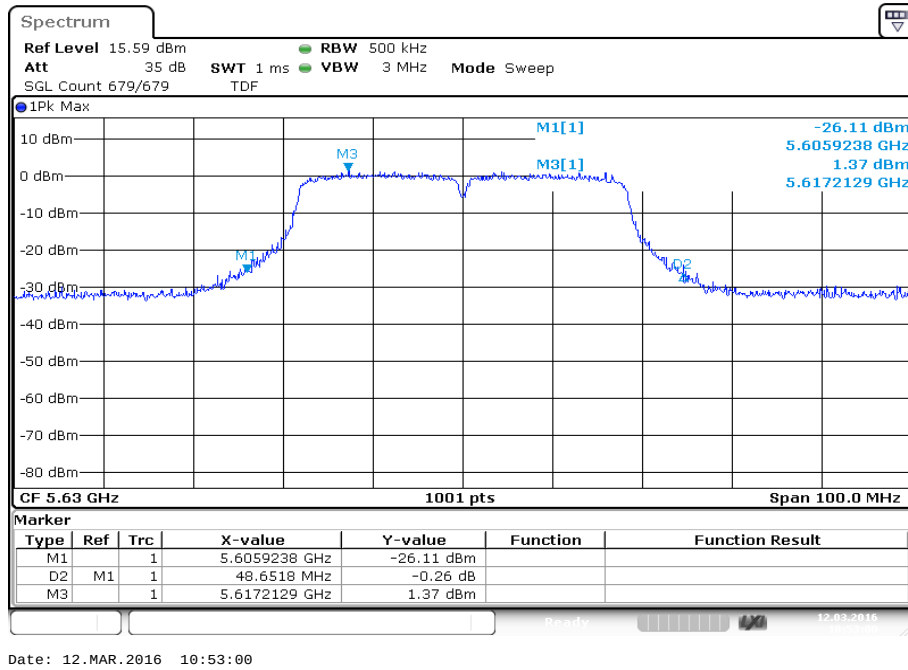
Plot 5: 5510 MHz



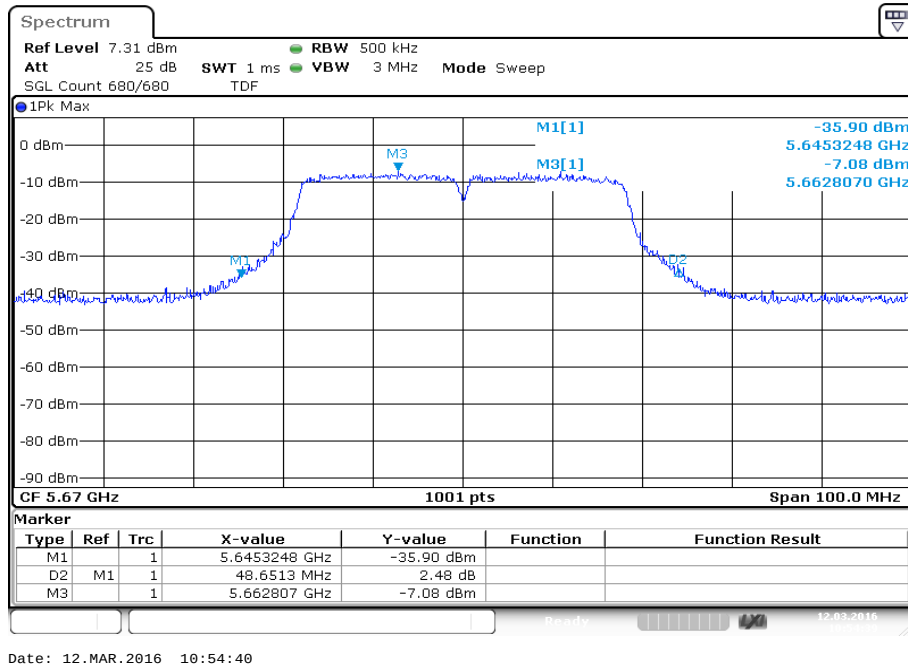
Plot 6: 5550 MHz



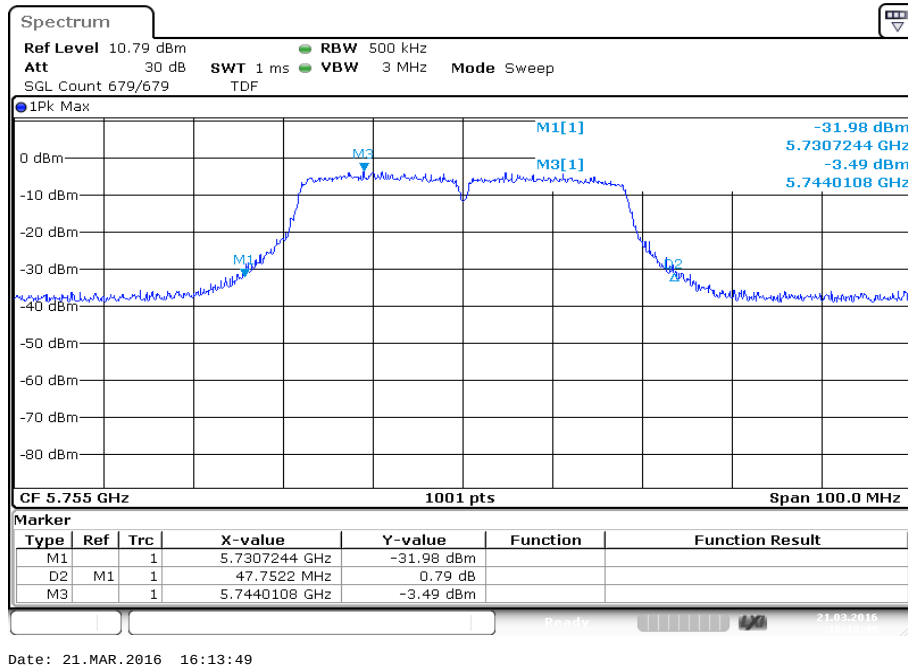
Plot 7: 5630 MHz



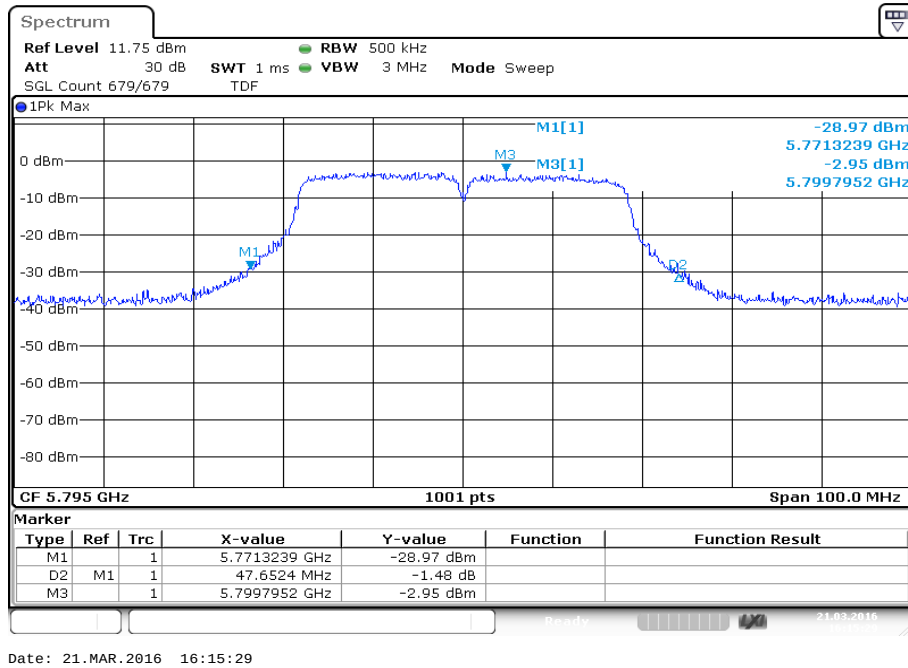
Plot 8: 5670 MHz



Plot 9: 5755 MHz

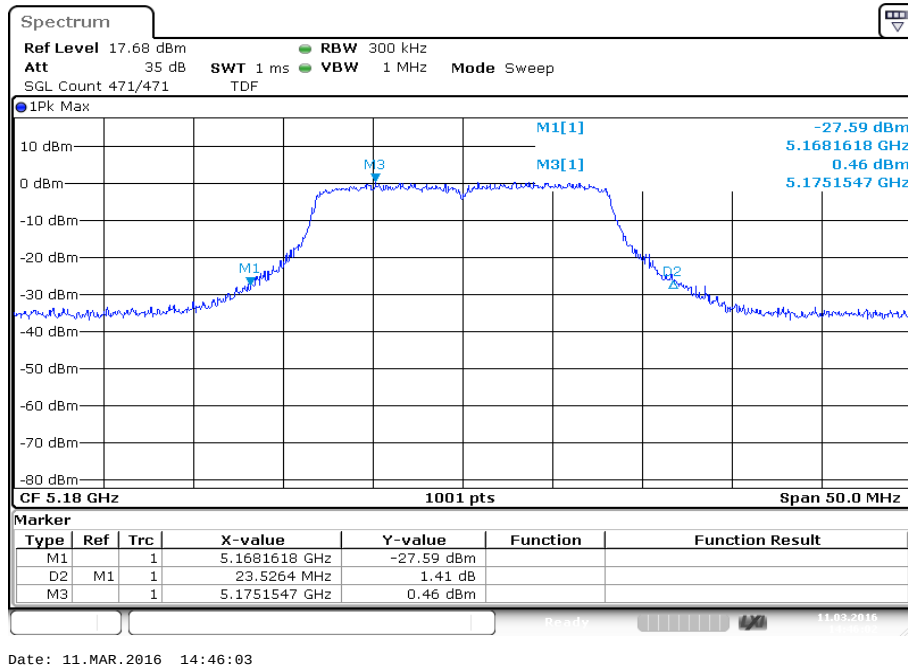


Plot 10: 5795 MHz

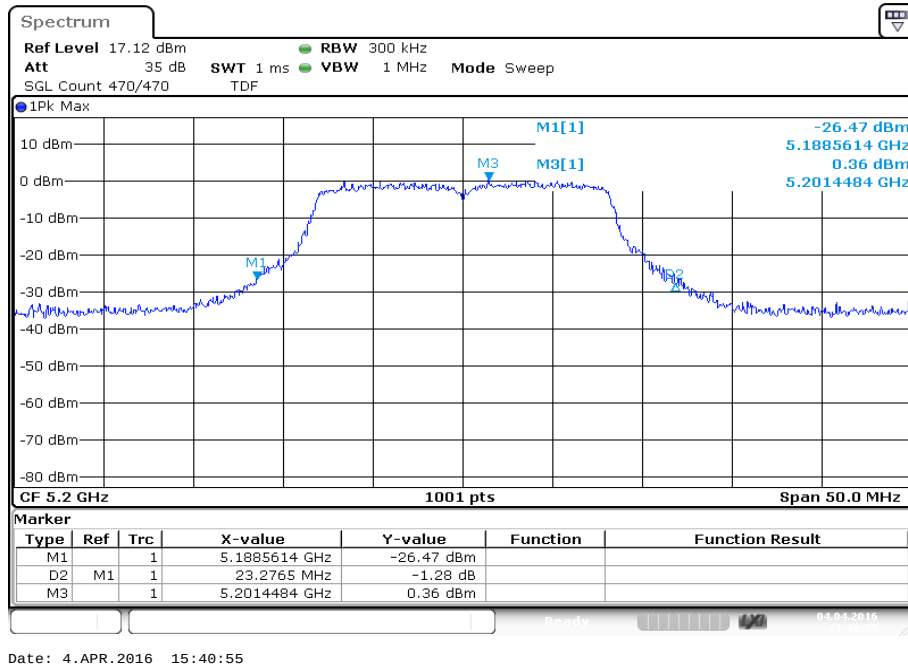


Plots: OFDM / a – mode, antenna port 3

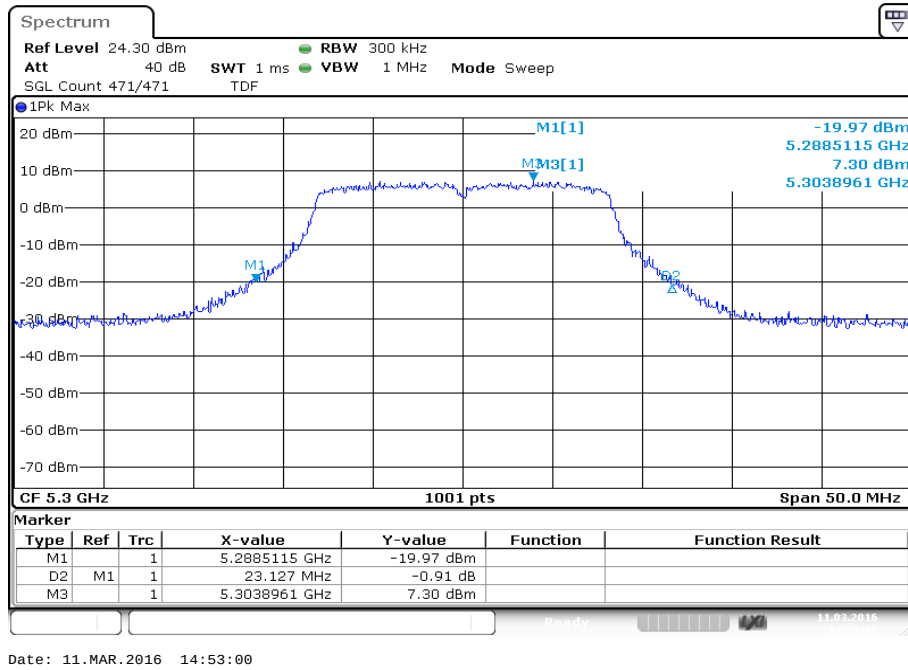
Plot 1: 5180 MHz



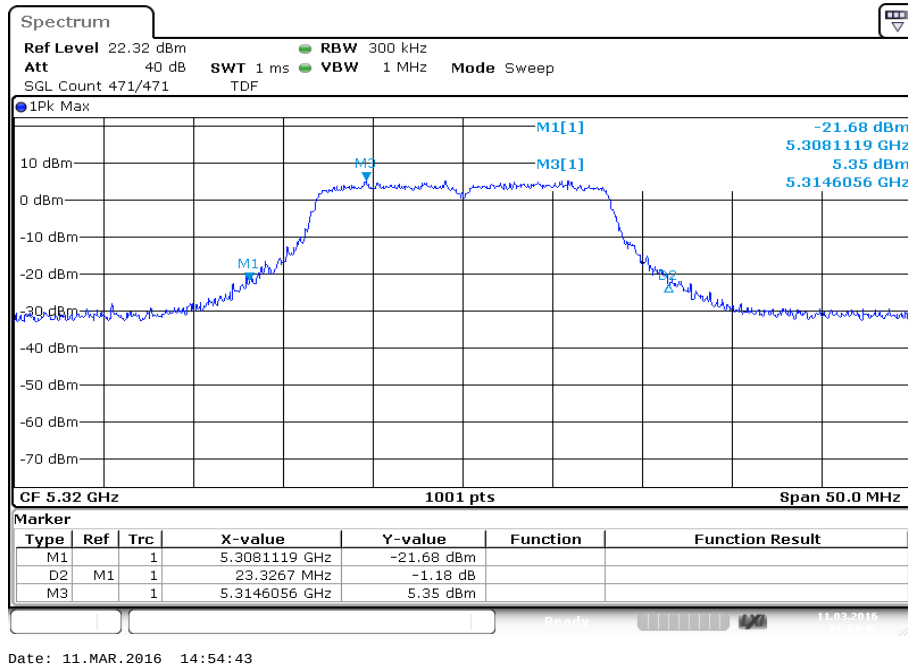
Plot 2: 5200 MHz



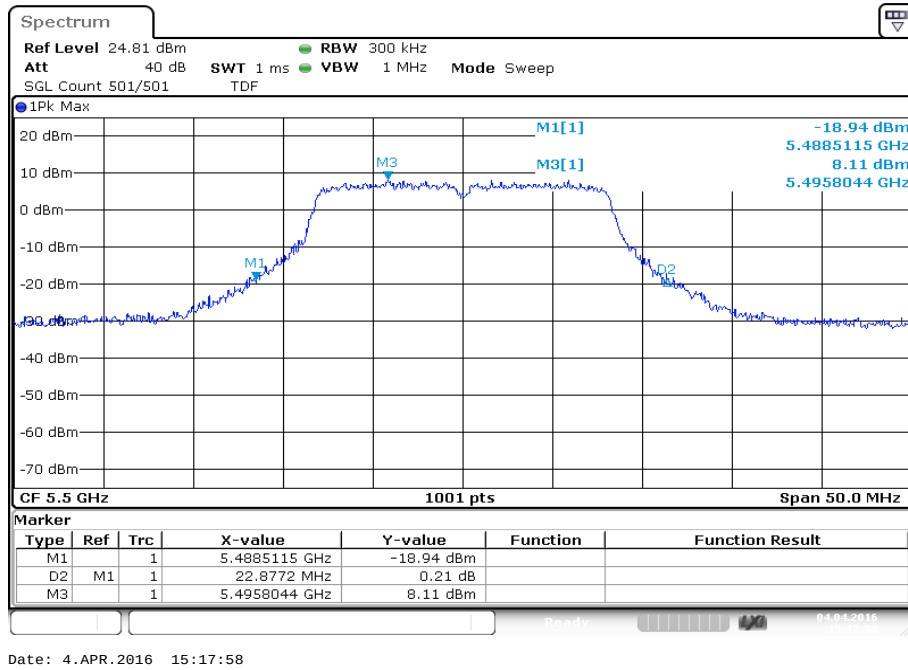
Plot 3: 5300 MHz



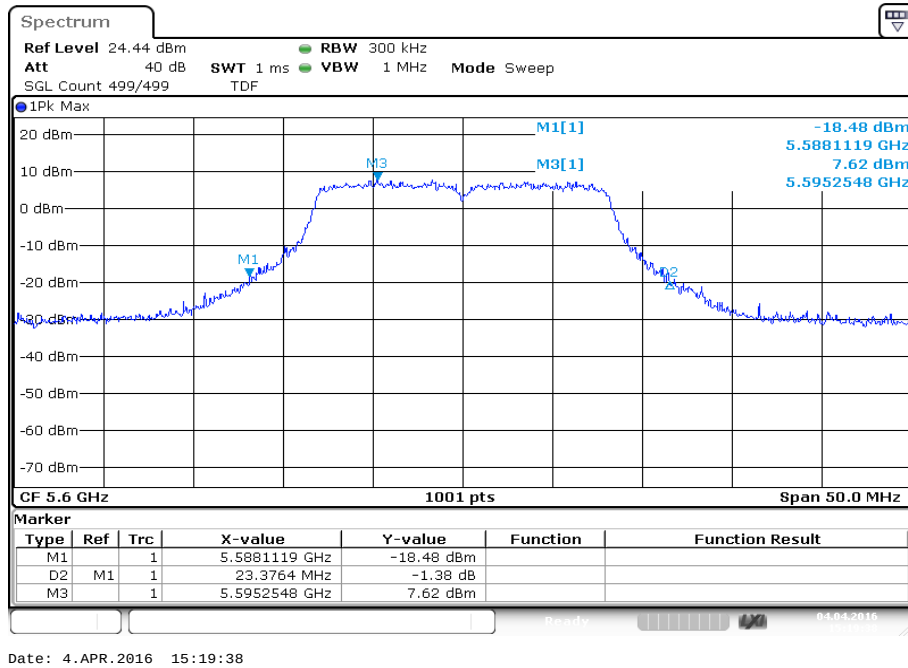
Plot 4: 5320 MHz



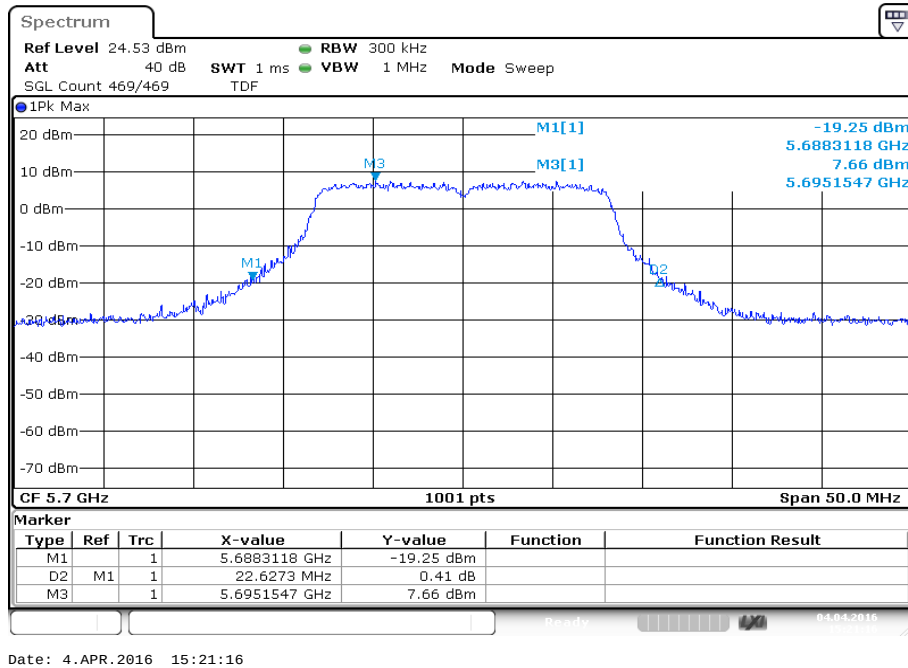
Plot 5: 5500 MHz



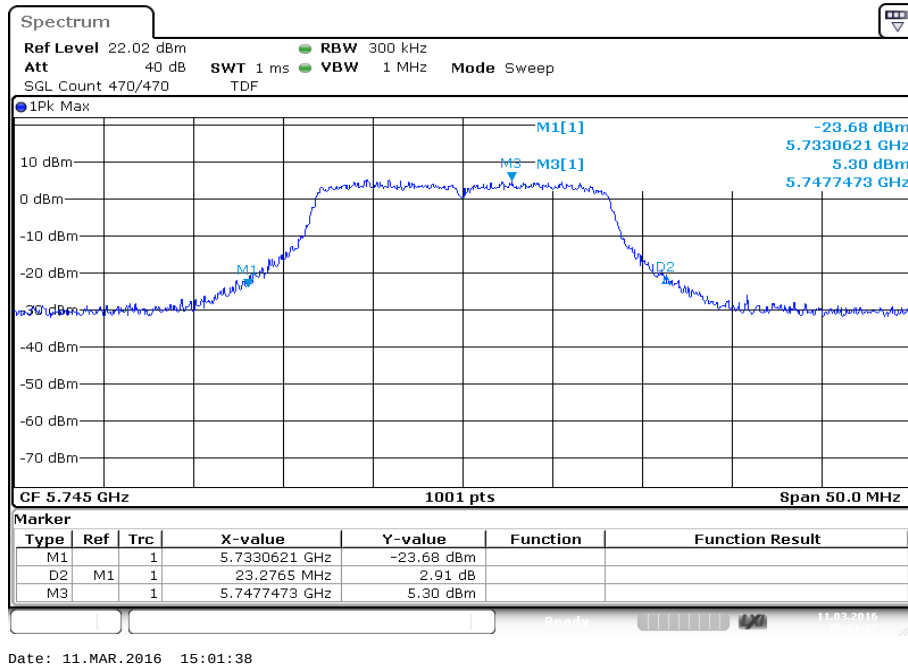
Plot 6: 5600 MHz



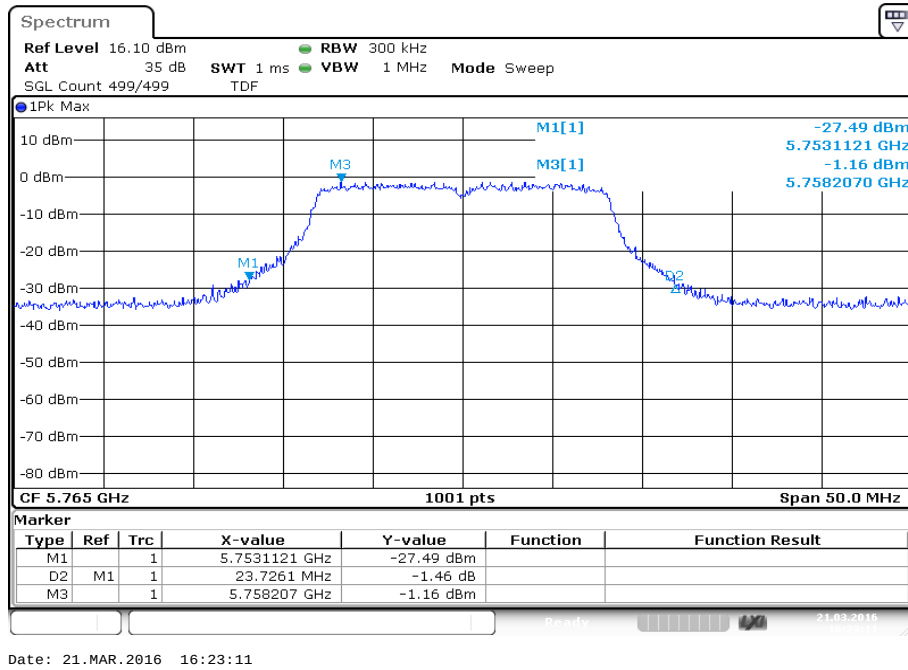
Plot 7: 5700 MHz



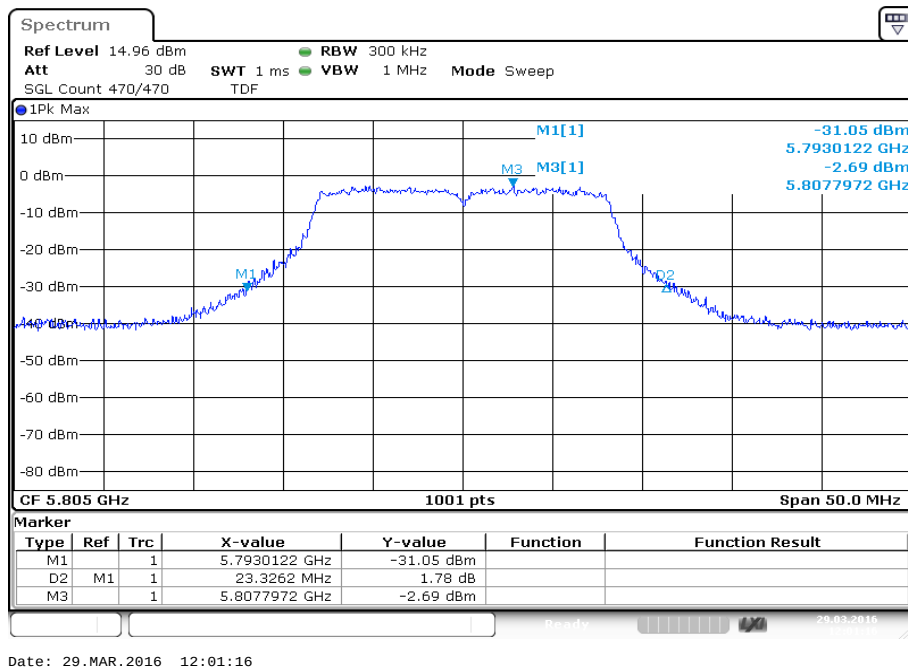
Plot 8: 5745 MHz



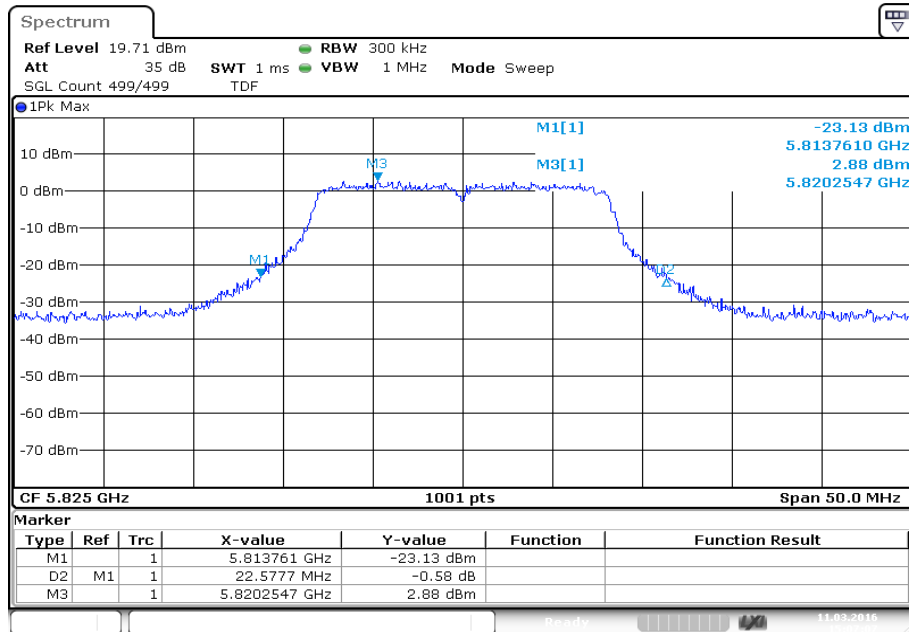
Plot 9: 5765 MHz



Plot 10: 5805 MHz



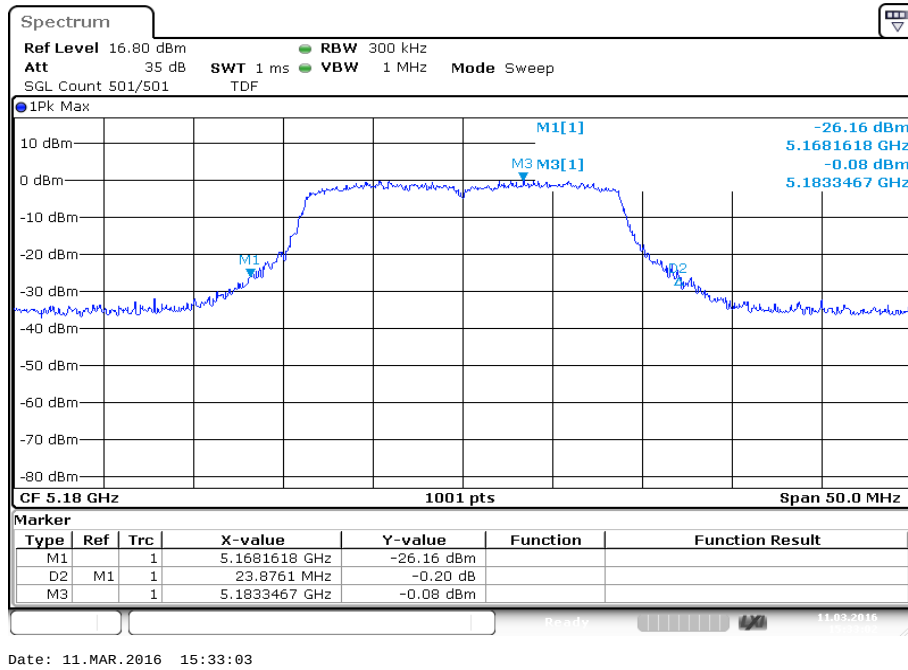
Plot 11: 5825 MHz



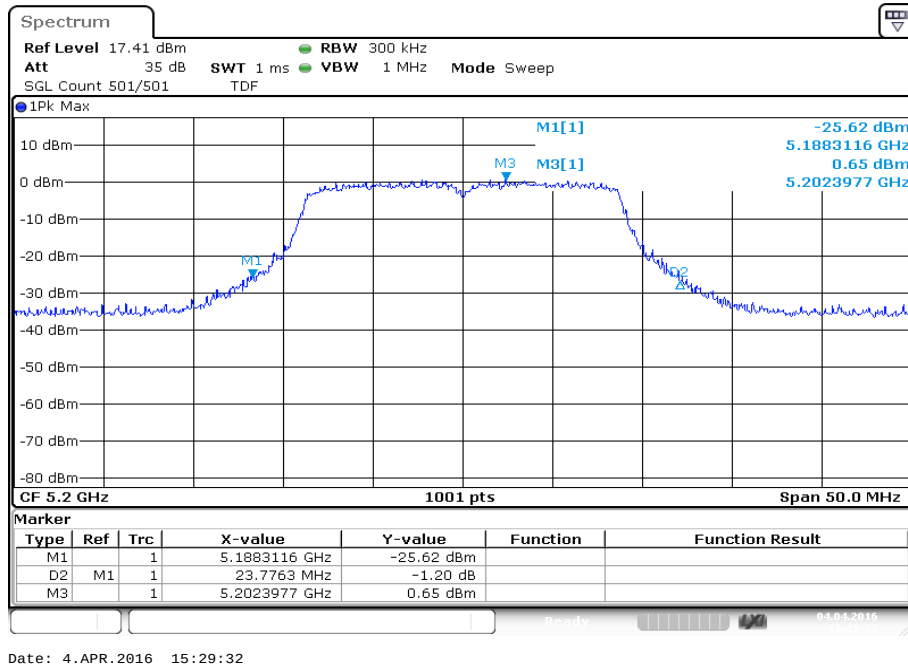
Date: 11.MAR.2016 15:07:08

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

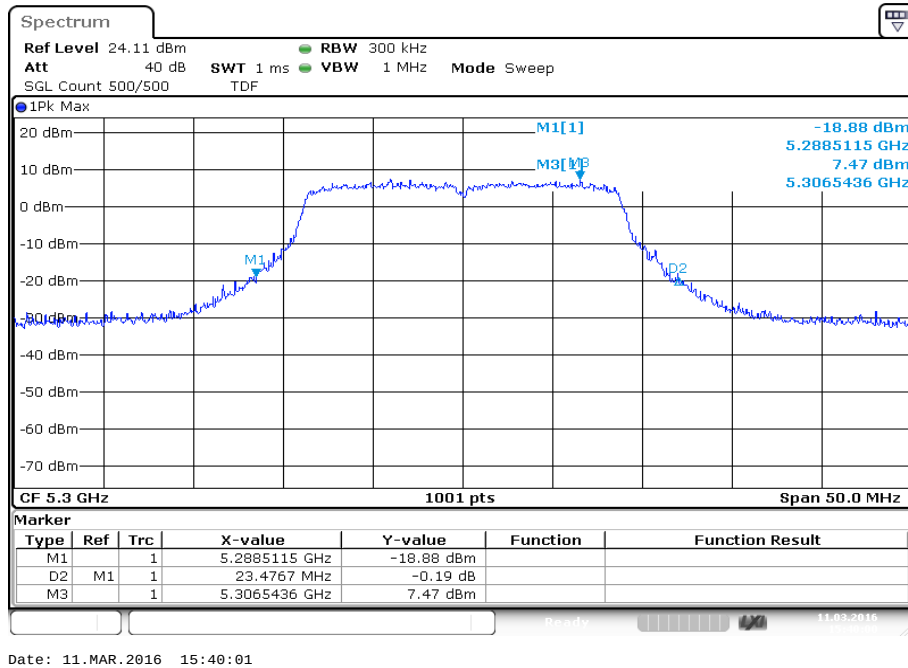
Plot 1: 5180 MHz



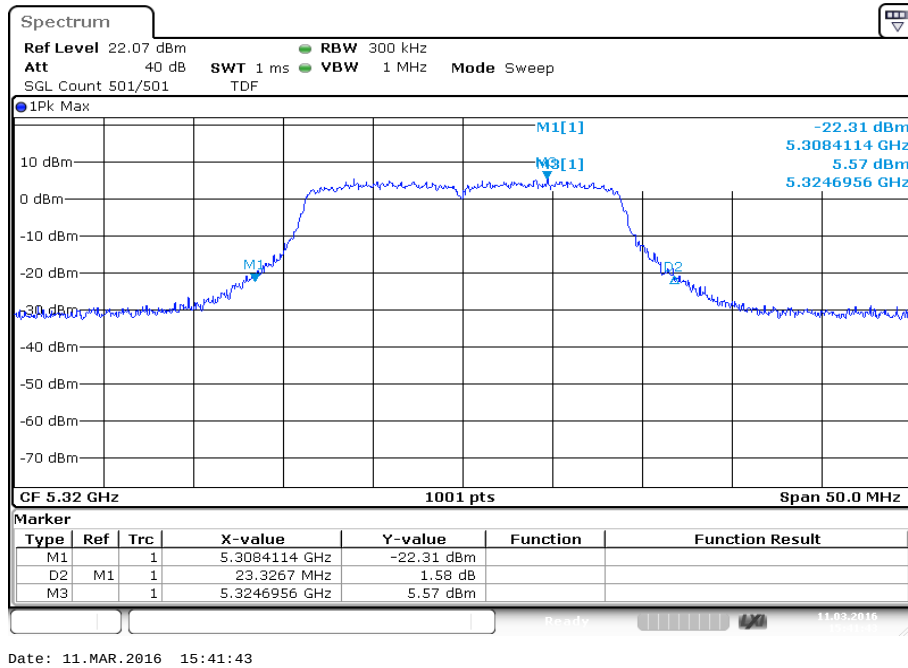
Plot 2: 5200 MHz



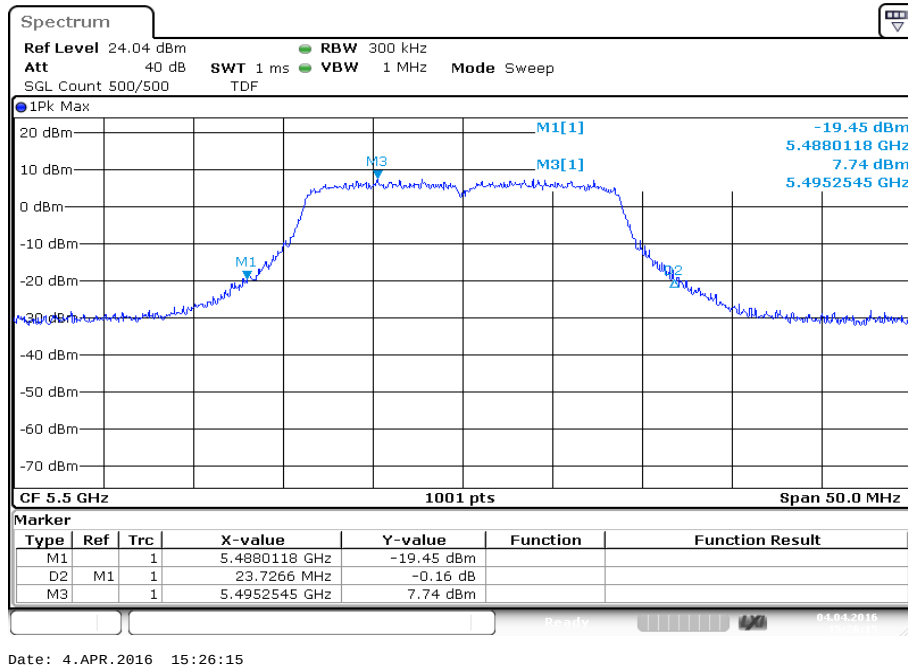
Plot 3: 5300 MHz



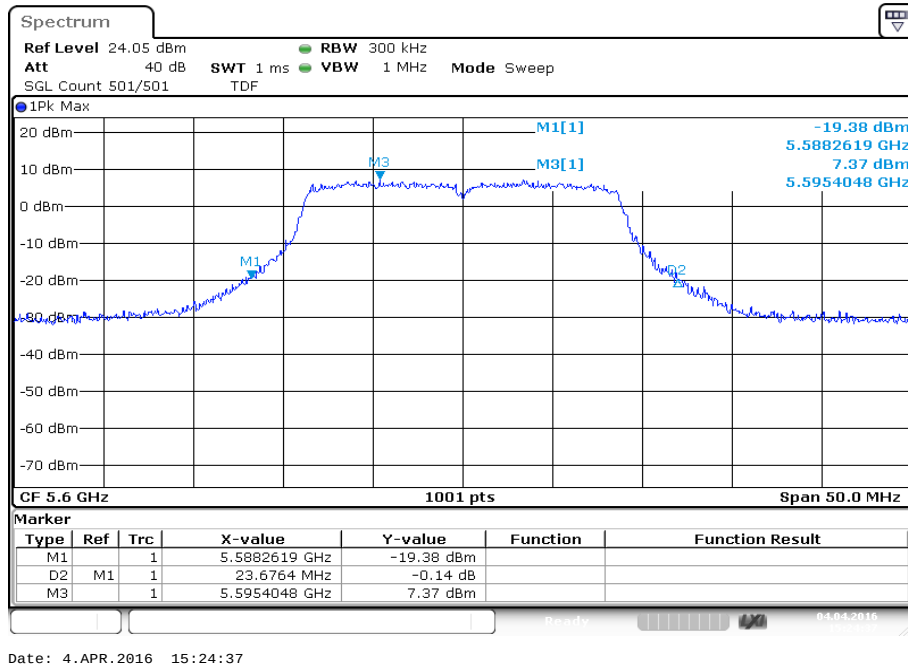
Plot 4: 5320 MHz



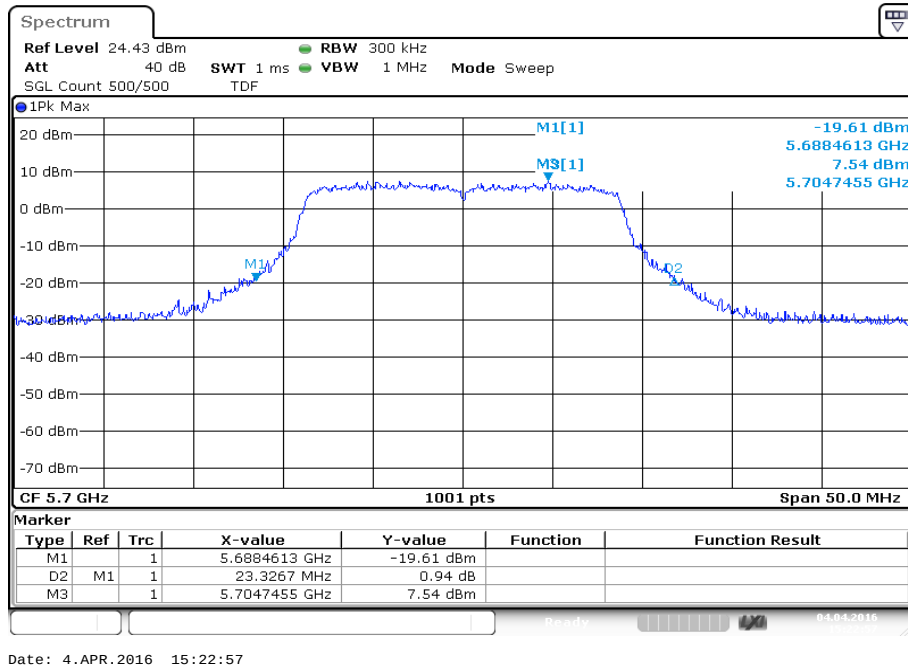
Plot 5: 5500 MHz



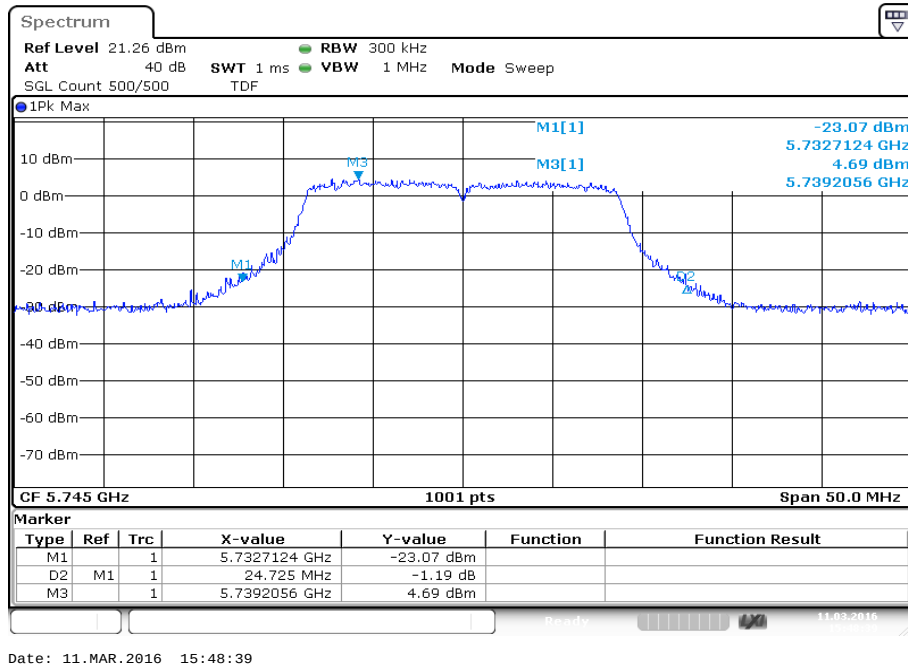
Plot 6: 5600 MHz



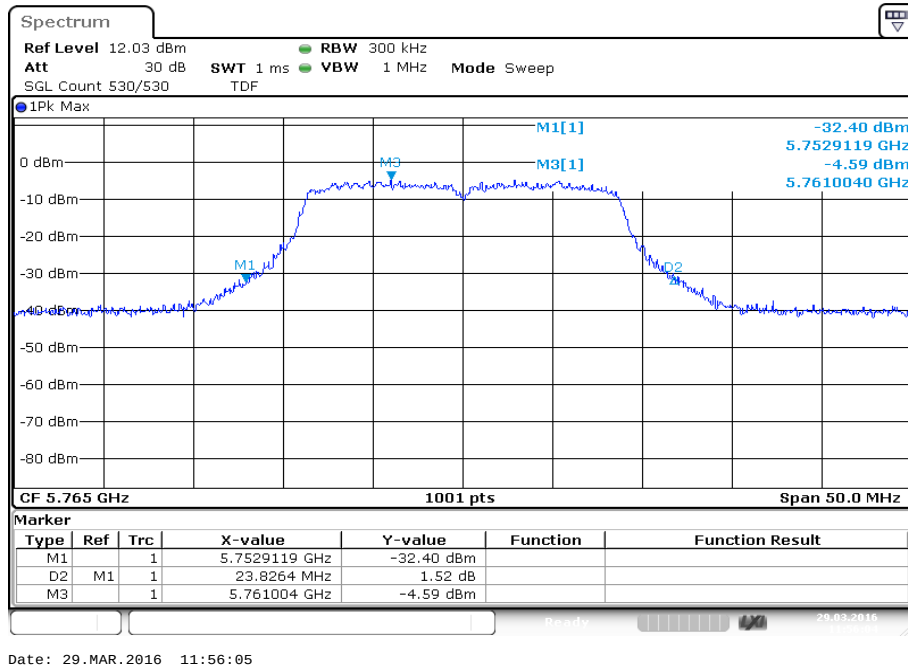
Plot 7: 5700 MHz



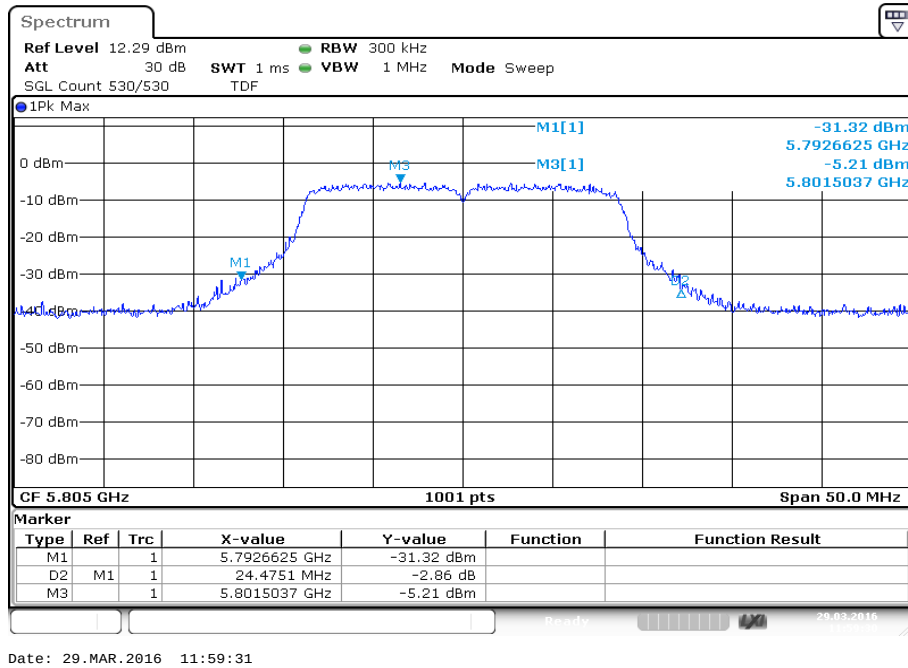
Plot 8: 5745 MHz



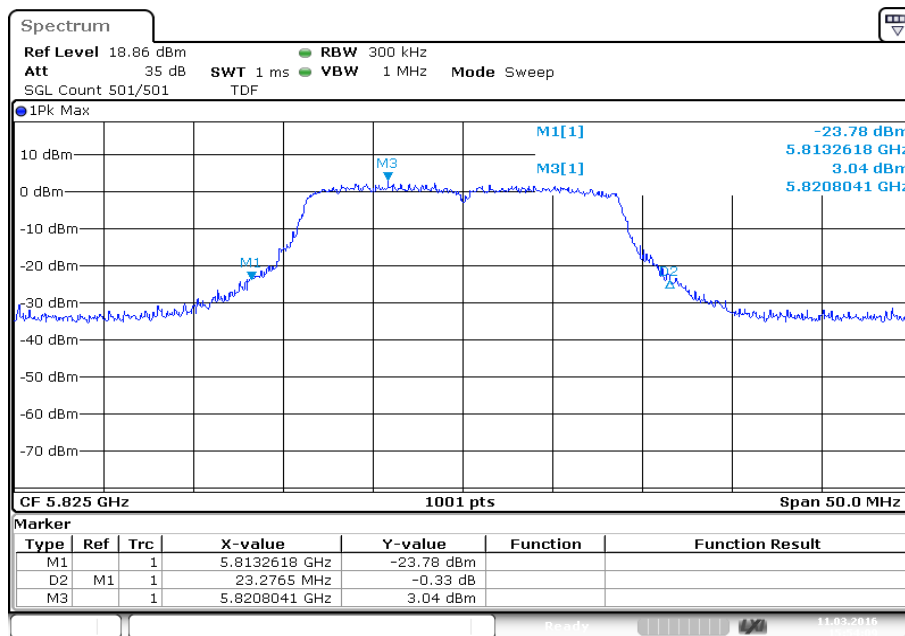
Plot 9: 5765 MHz



Plot 10: 5805 MHz



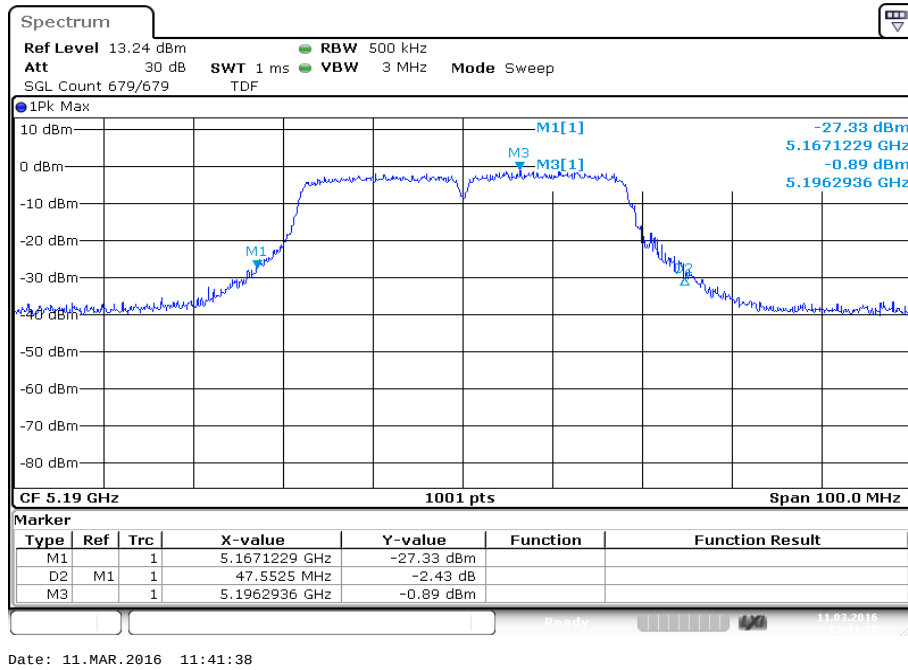
Plot 11: 5825 MHz



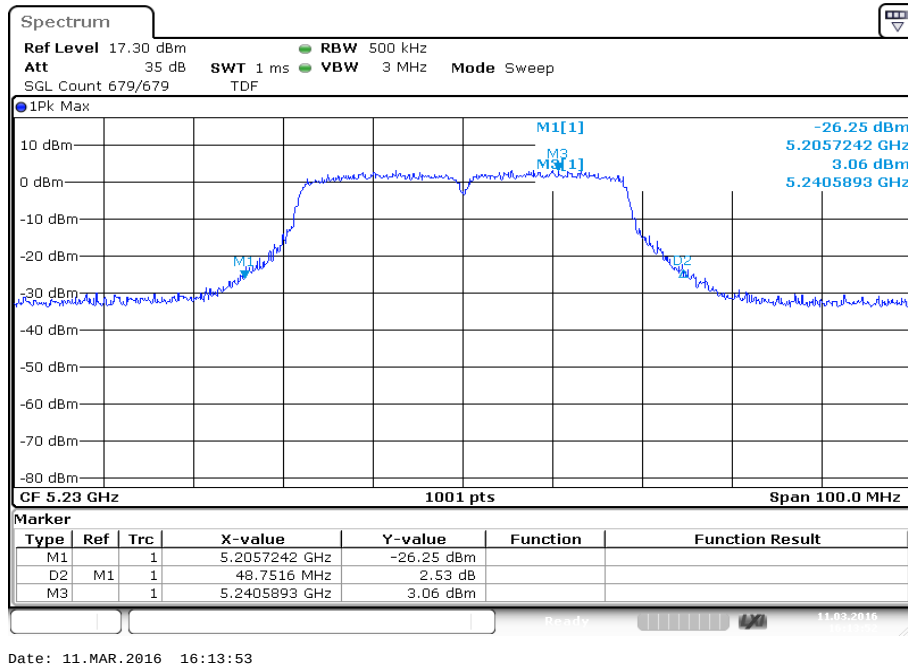
Date: 11.MAR.2016 15:54:09

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

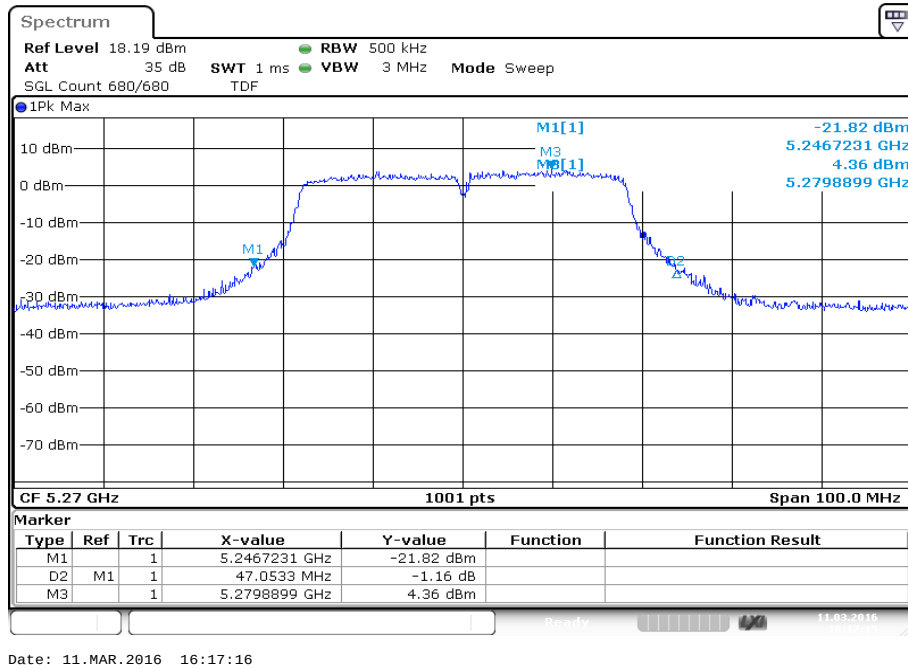
Plot 1: 5190 MHz



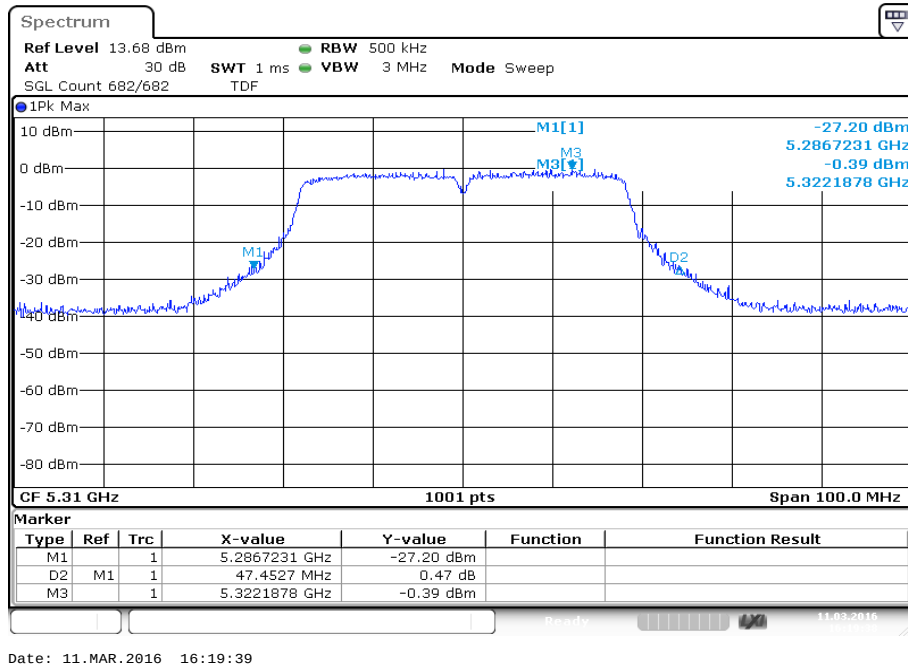
Plot 2: 5230 MHz



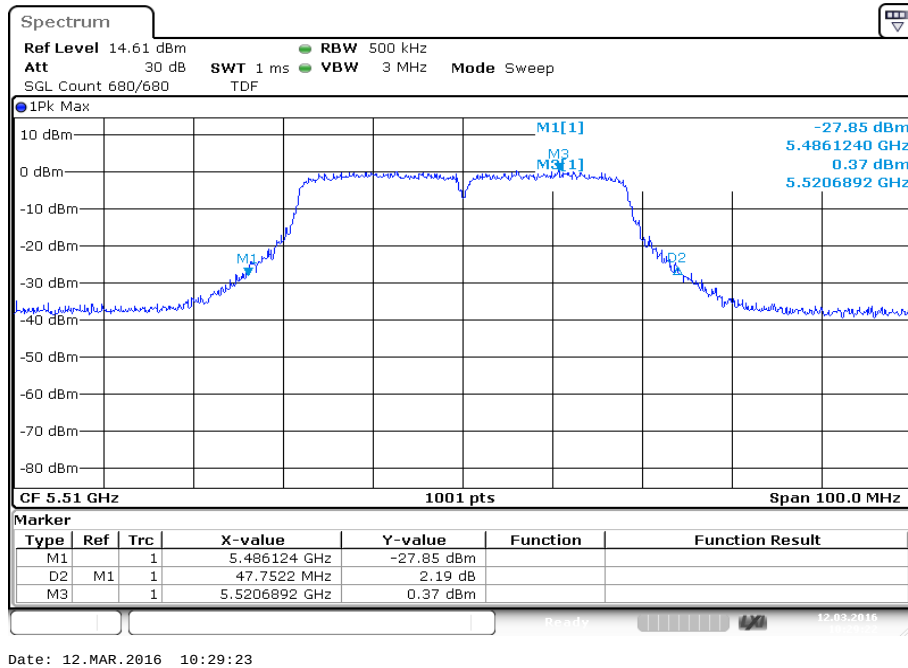
Plot 3: 5270 MHz



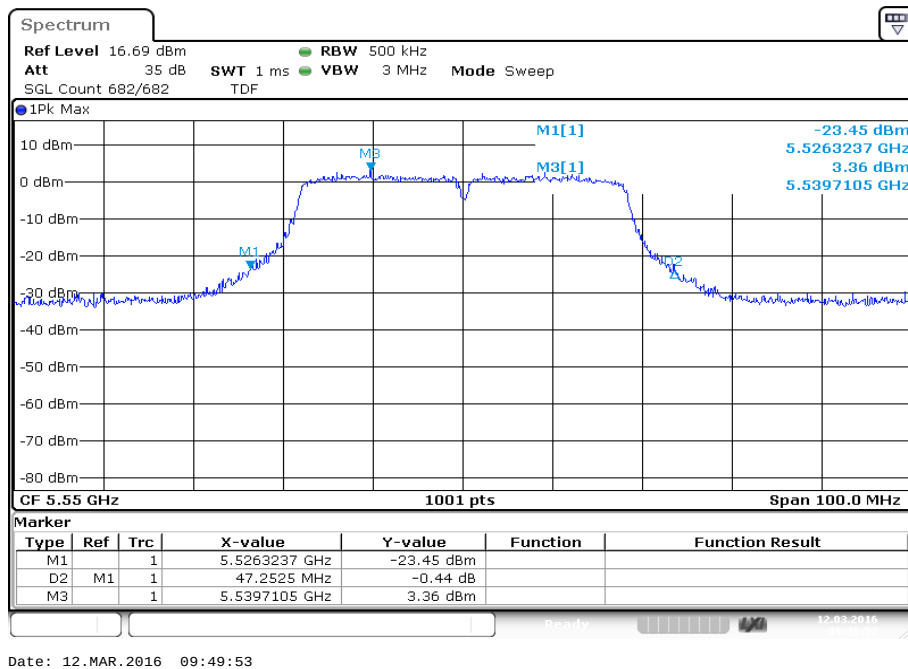
Plot 4: 5310 MHz



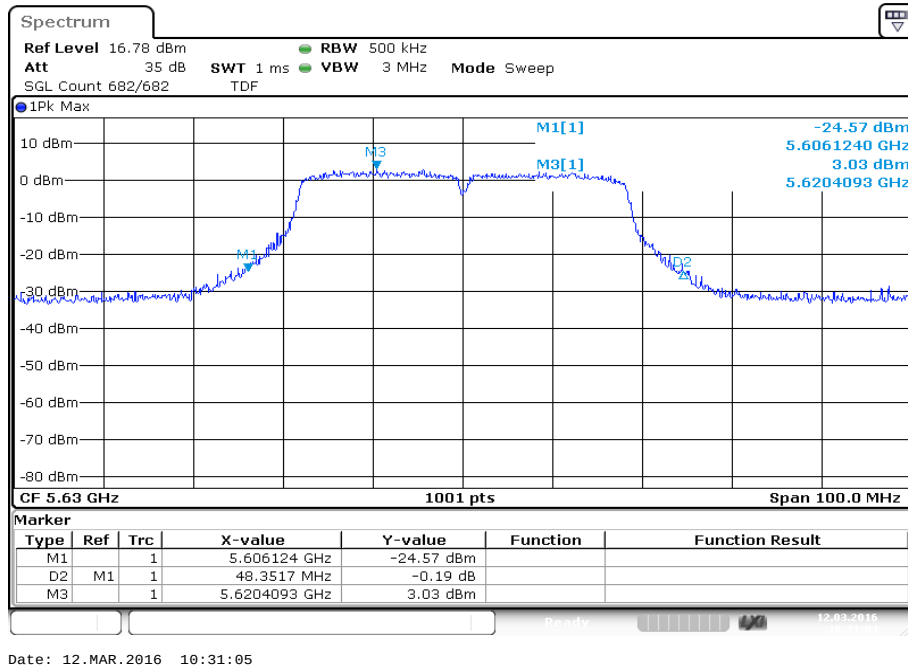
Plot 5: 5510 MHz



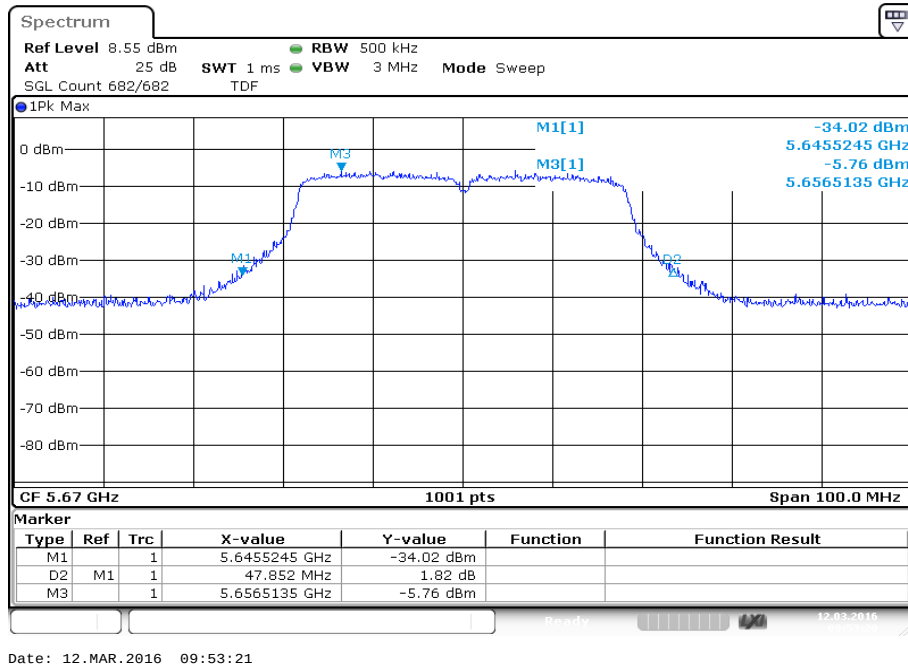
Plot 6: 5550 MHz



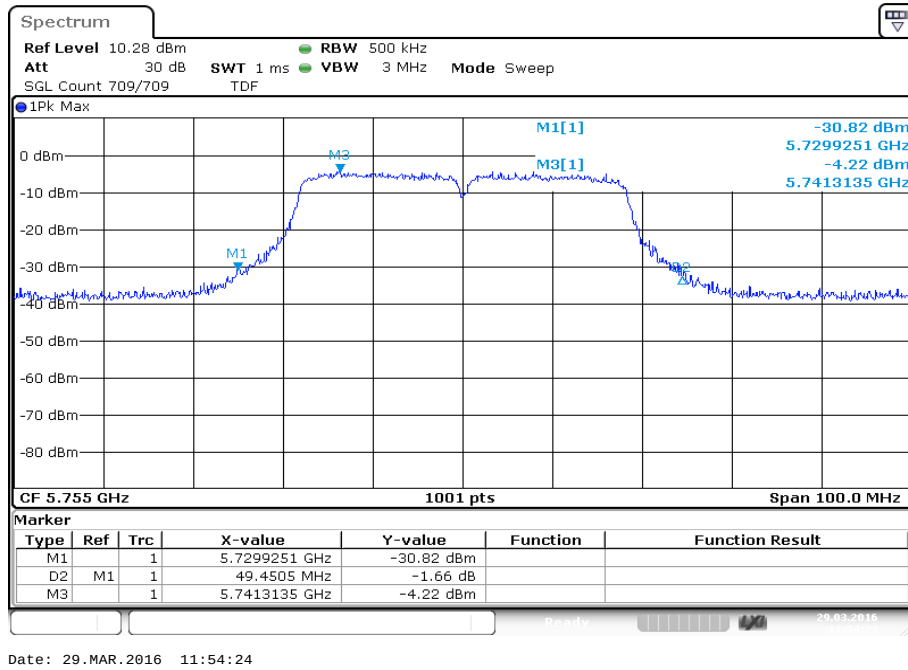
Plot 7: 5630 MHz



Plot 8: 5670 MHz



Plot 9: 5755 MHz



Plot 10: 5795 MHz

