

## 12.5 Power spectral density

### Description:

Measurement of the power spectral density of a digital modulated system. The measurement is repeated at the lowest, middle and highest channel.

### Measurement:

Measurement parameter	
According to: KDB789033 D02, F.	
Detector:	RMS
Sweep time:	$\geq 10^*(\text{swp points}) * (\text{total on/off time})$
Resolution bandwidth:	1 MHz (500 kHz for 5.8 GHz band)
Video bandwidth:	$\geq 3 \times \text{RBW}$
Span:	$> \text{EBW}$
Trace-Mode:	Max hold
Used test setup:	see chapter 7.4 – A
Measurement uncertainty:	see chapter 9

### Limits:

Power Spectral Density	
<b>FCC</b>	
power spectral density conducted $\leq 11 \text{ dBm}$ in any 1 MHz band (band 5150 – 5250 MHz)* $\rightarrow 8 \text{ dBm}$	
power spectral density conducted $\leq 11 \text{ dBm}$ in any 1 MHz band (band 5250 – 5350 MHz)* $\rightarrow 8 \text{ dBm}$	
power spectral density conducted $\leq 11 \text{ dBm}$ in any 1 MHz band (band 5470 – 5725 MHz)* $\rightarrow 8 \text{ dBm}$	
power spectral density conducted $\leq 30 \text{ dBm}$ in any 500 kHz band (band 5725 – 5850 MHz)* $\rightarrow 27 \text{ dBm}$	
<b>IC</b>	
power spectral density <b>e.i.r.p. <math>\leq 10 \text{ dBm}</math></b> in any 1 MHz band (band 5150 – 5250 MHz)	
power spectral density conducted $\leq 11 \text{ dBm}$ in any 1 MHz band (band 5250 – 5350 MHz)* $\rightarrow 8 \text{ dBm}$	
power spectral density conducted $\leq 11 \text{ dBm}$ in any 1 MHz band (band 5470 – 5725 MHz)* $\rightarrow 8 \text{ dBm}$	
power spectral density conducted $\leq 30 \text{ dBm}$ in any 500 kHz band (band 5725 – 5850 MHz)* $\rightarrow 27 \text{ dBm}$	

\*limit shall be reduced by 3 dB because of the 9dBi antenna gain.

Results plots for 5150 MHz to 5725 MHz are shown in sub chapter 12.4

**Result:** antenna port 1

OFDM / a – mode	Power spectral density [dBm/MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	-0.2	0.9	2.8	2.8
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	2.5	2.7	2.2	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	-1.9	-1.1	-2.6	-1.2

OFDM / n HT20 – mode	Power spectral density [dBm/MHz]			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	-3.5	-1.4	1.4	2.3
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	3.1	1.4	1.9	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	-2.5	-2.1	-1.9	-4.0

OFDM / n HT40 – mode	Power spectral density [dBm/MHz]			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel				
Including duty cycle correction factor	-6.3	-2.1	-2.6	-5.3
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
Including duty cycle correction factor	-4.8	-1.6	-0.2	-0.7
Channel	5755 MHz	5795 MHz	-/-	-/-
Including duty cycle correction factor	-5.2	-6.9	-/-	-/-

**Result:** antenna port 2

<b>OFDM / a – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	-0.7	0.5	2.0	2.3
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	1.9	3.0	2.5	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	-1.3	-1.3	-2.9	-1.4

<b>OFDM / n HT20 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	-4.0	-1.6	1.0	2.0
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	2.9	1.6	2.3	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	-1.6	-1.8	-1.5	-3.8

<b>OFDM / n HT40 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel				
Including duty cycle correction factor	-6.2	-2.7	-2.0	-5.4
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
Including duty cycle correction factor	-5.1	-2.1	-0.4	-0.4
Channel	5755 MHz	5795 MHz	-/-	-/-
Including duty cycle correction factor	-4.8	-7.1	-/-	-/-

**Result:** antenna port 3

<b>OFDM / a – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	0.6	1.5	3.6	3.6
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	3.1	3.8	3.0	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	-1.3	-0.7	-1.8	-0.5

<b>OFDM / n HT20 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	-2.9	-0.9	1.9	2.9
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	3.6	2.7	2.6	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	-1.4	-1.9	-1.0	-3.6

<b>OFDM / n HT40 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5190 MHz	5210 MHz	5270 MHz	5310 MHz
Channel				
Including duty cycle correction factor	-5.3	-1.3	-1.2	-4.5
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
Including duty cycle correction factor	-4.6	-0.9	0.2	0.2
Channel	5755 MHz	5795 MHz	-/-	-/-
Including duty cycle correction factor	-4.5	-6.2	-/-	-/-

**Result:** antenna port 1 + antenna port 2

<b>OFDM / a – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	2.6	3.7	5.5	5.6
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	5.3	5.8	5.4	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	1.4	1.8	0.2	1.7

<b>OFDM / n HT20 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	-0.7	1.5	4.2	5.2
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	6.0	4.5	5.1	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	1.0	1.1	1.3	-0.9

<b>OFDM / n HT40 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel				
Including duty cycle correction factor	-3.2	0.6	0.7	-2.4
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
Including duty cycle correction factor	-1.9	1.2	2.7	2.5
Channel	5755 MHz	5795 MHz	-/-	-/-
Including duty cycle correction factor	-2.0	-3.9	-/-	-/-

**Result:** antenna port 1 + antenna port 2 + antenna port 3

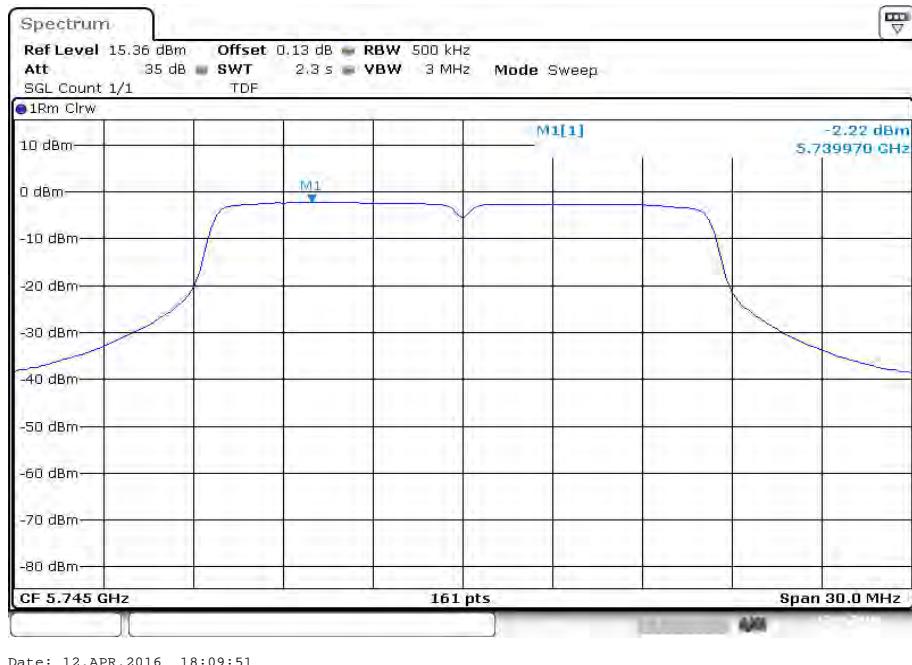
<b>OFDM / a – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	4.7	5.8	7.6	7.7
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	7.3	8.0	7.3	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	3.3	3.7	2.4	3.8

<b>OFDM / n HT20 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel				
Including duty cycle correction factor	1.3	3.5	6.2	7.2
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Including duty cycle correction factor	8.0	6.7	7.1	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
Including duty cycle correction factor	3.0	2.8	3.3	1.0

<b>OFDM / n HT40 – mode</b>	<b>Power spectral density [dBm/MHz]</b>			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel				
Including duty cycle correction factor	-1.1	2.8	2.9	-0.3
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
Including duty cycle correction factor	0.0	3.3	4.6	4.5
Channel	5755 MHz	5795 MHz	-/-	-/-
Including duty cycle correction factor	-0.1	-1.9	-/-	-/-

**Plots:** OFDM / a – mode, antenna port 1

**Plot 1:** 5745 MHz



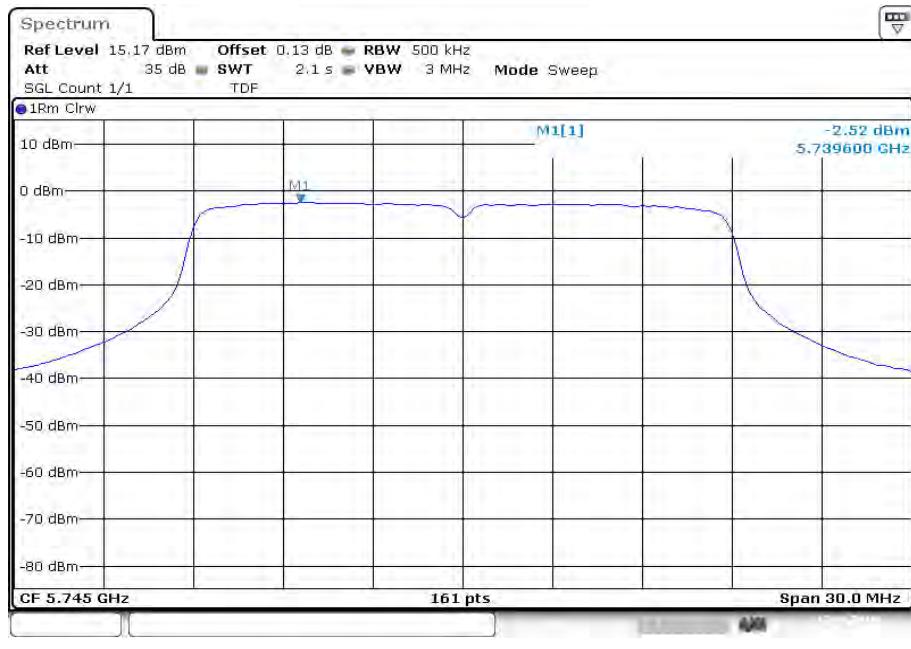
**Plot 2:** 5765 MHz



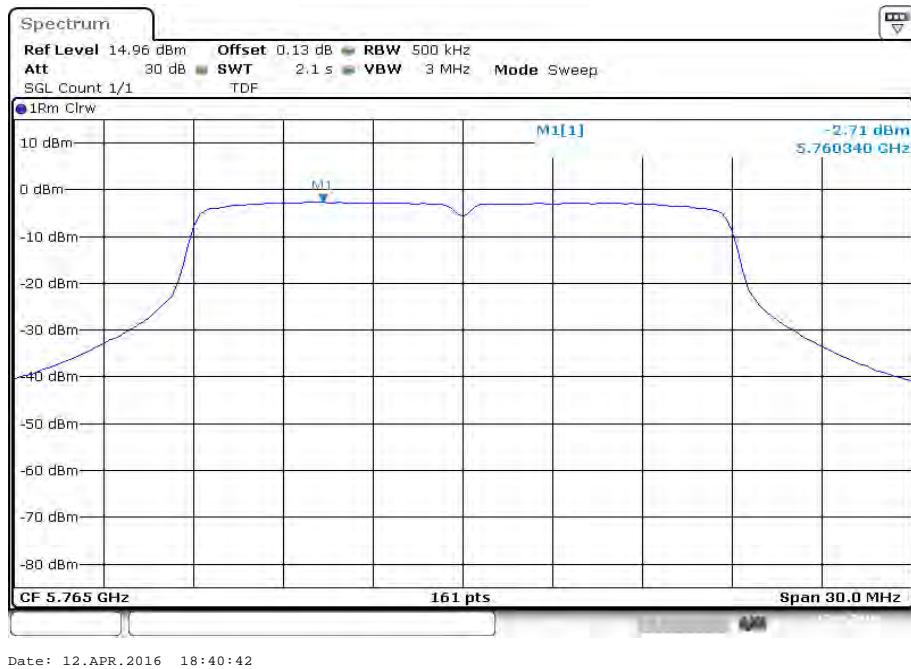
**Plot 3:** 5805 MHz**Plot 4:** 5825 MHz

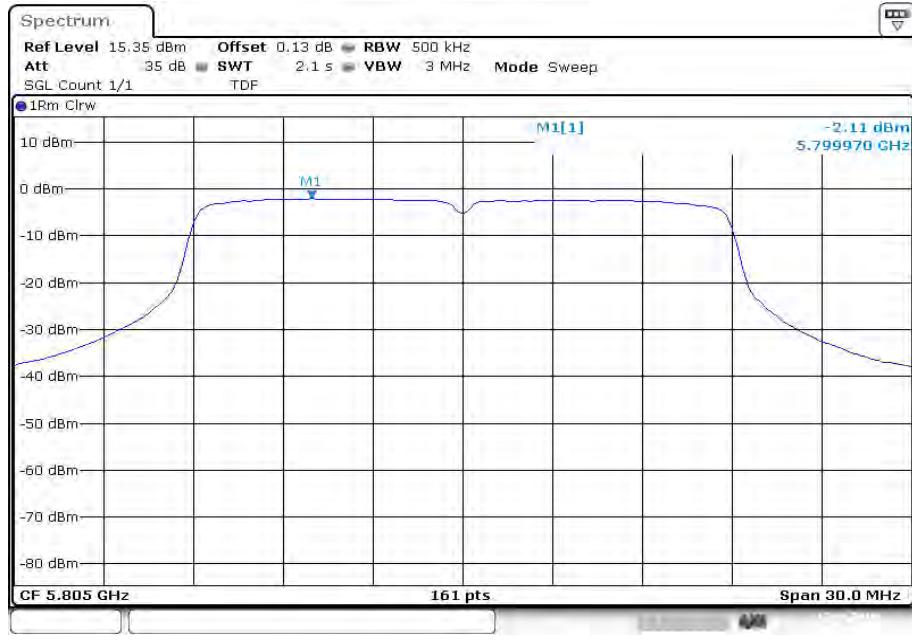
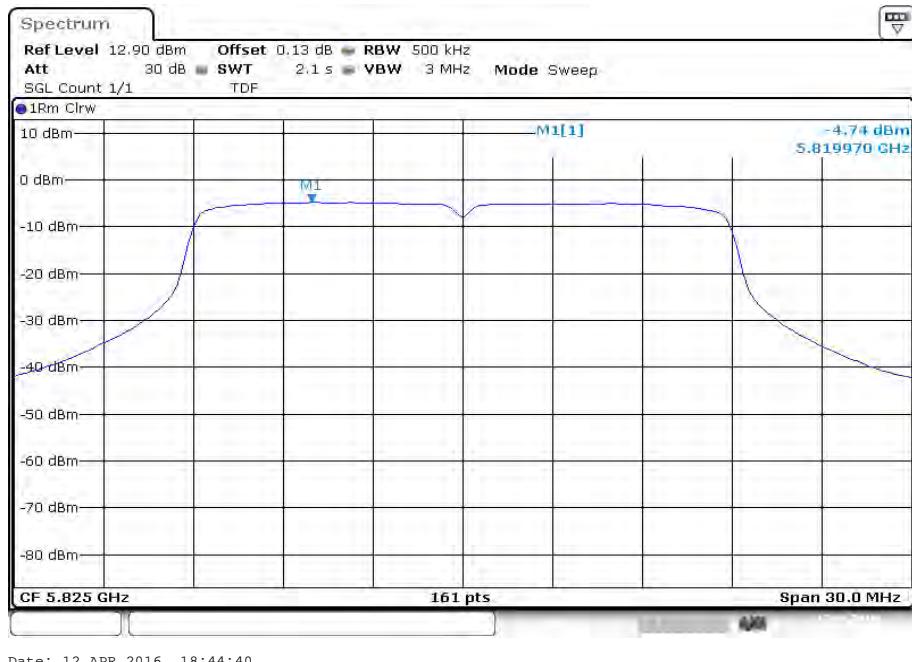
**Plots:** OFDM / n – mode, antenna port 1

**Plot 1:** 5745 MHz



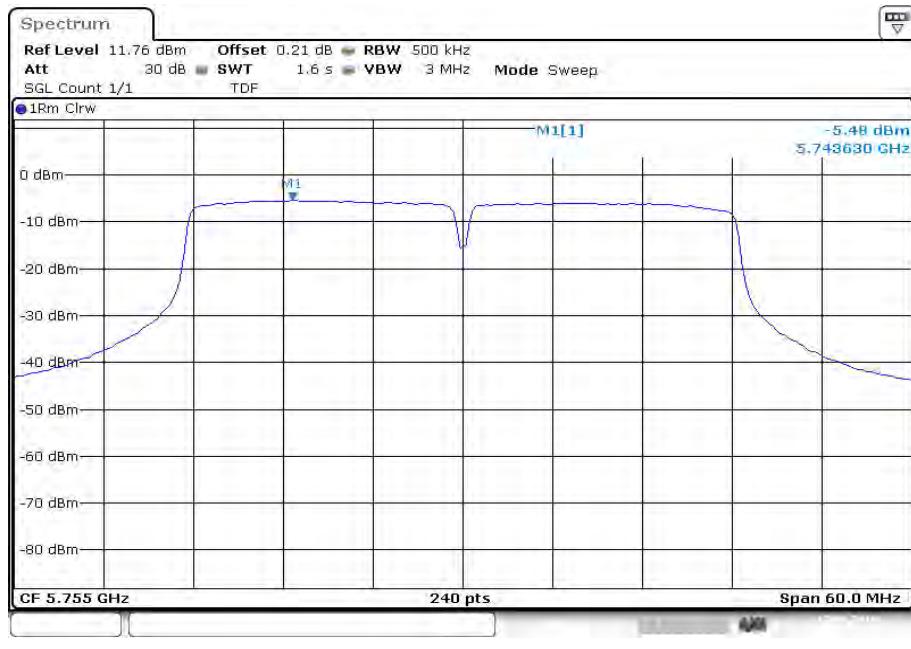
**Plot 2:** 5765 MHz



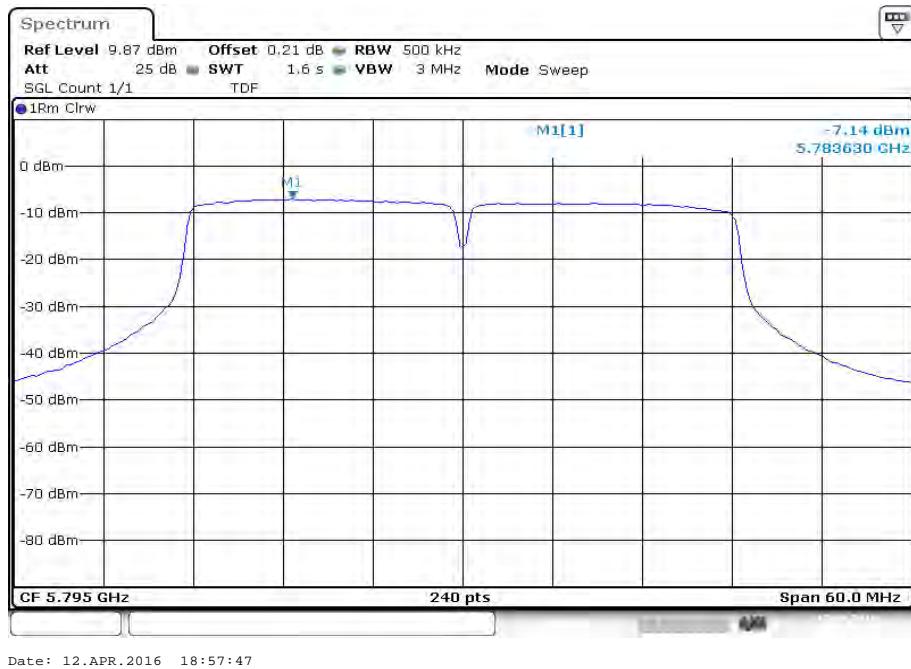
**Plot 3:** 5805 MHz**Plot 4:** 5825 MHz

**Plots:** OFDM / n40 – mode, antenna port 1

**Plot 1:** 5755 MHz



**Plot 2:** 5795 MHz

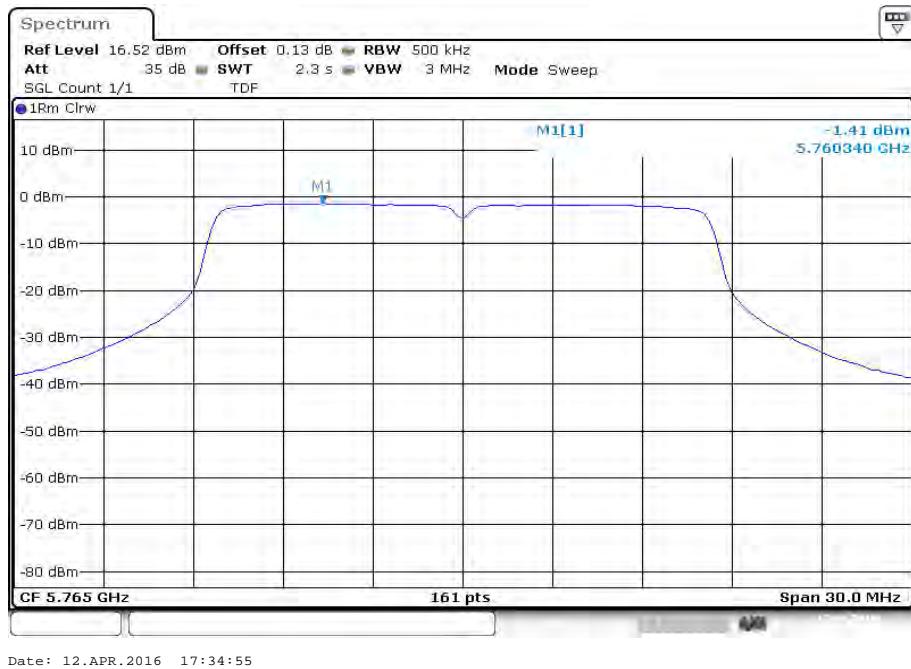


**Plots:** OFDM / a – mode, antenna port 2

**Plot 1:** 5745 MHz



**Plot 2:** 5765 MHz



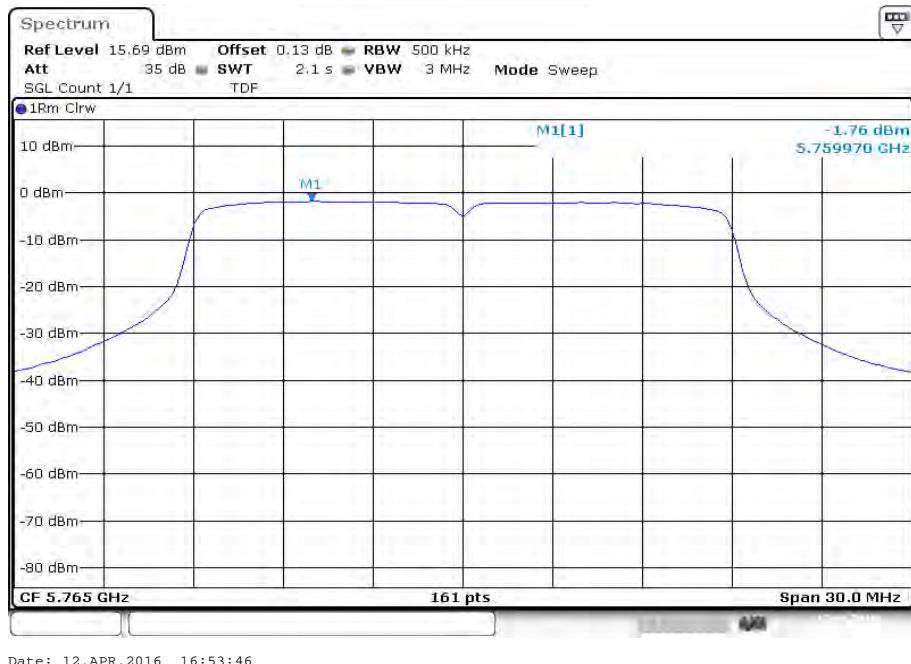
**Plot 3:** 5805 MHz**Plot 4:** 5825 MHz

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

**Plot 1:** 5745 MHz



**Plot 2:** 5765 MHz



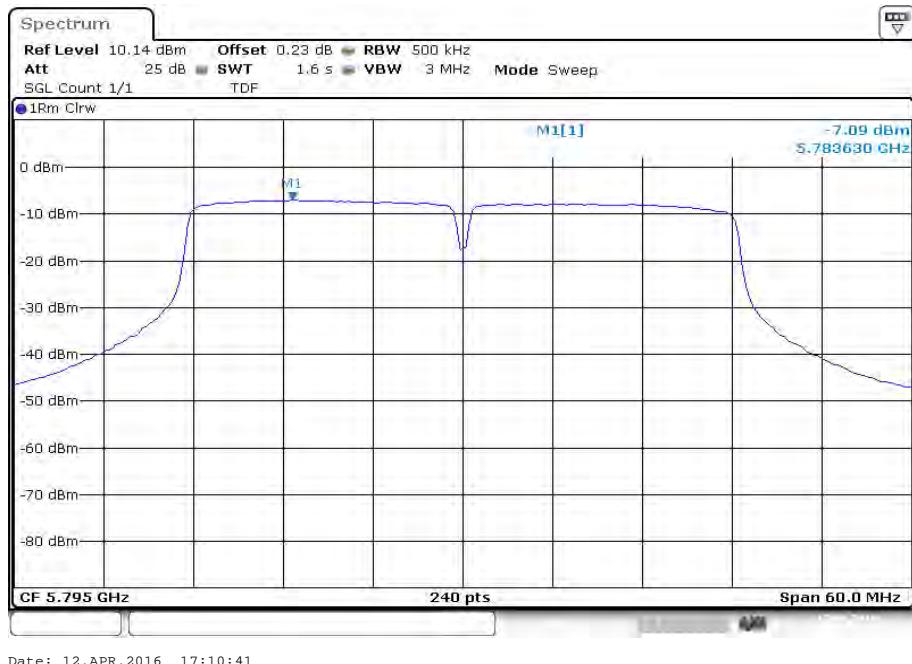
**Plot 3:** 5805 MHz**Plot 4:** 5825 MHz

**Plots:** OFDM / n40 – mode, antenna port 2

**Plot 1:** 5755 MHz



**Plot 2:** 5795 MHz

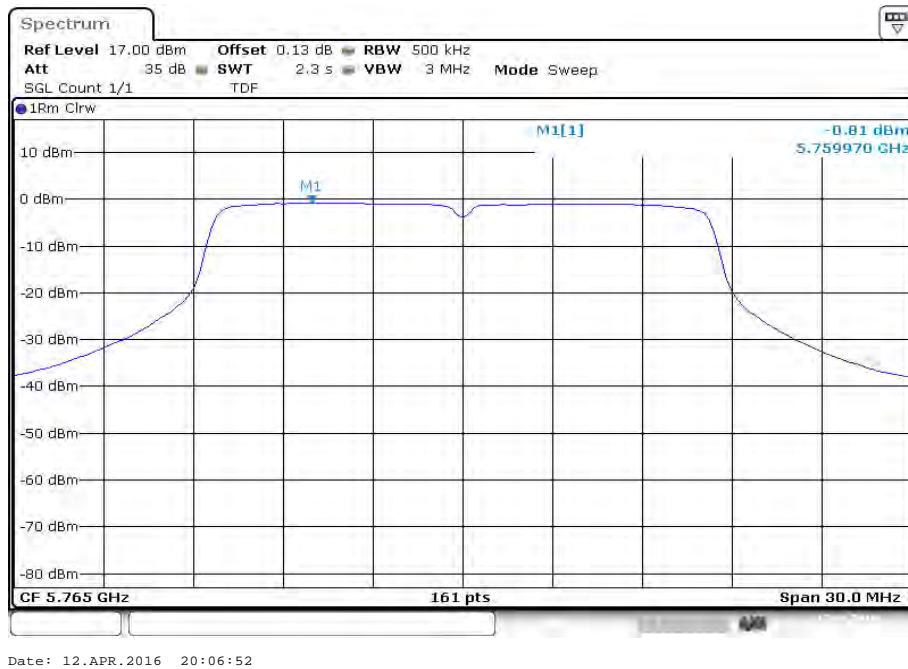


**Plots:** OFDM / a – mode, antenna port 3

**Plot 1:** 5745 MHz



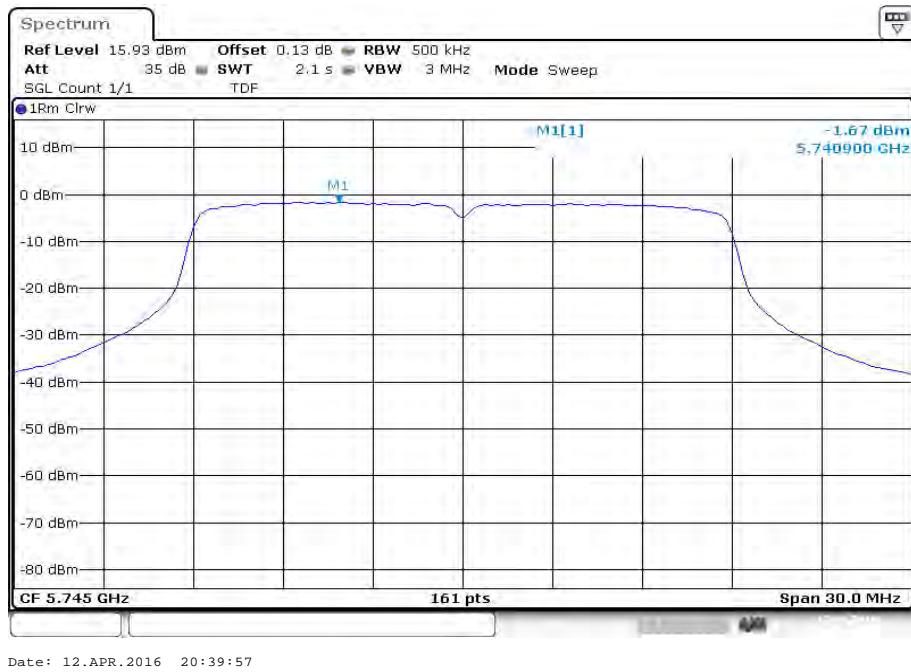
**Plot 2:** 5765 MHz



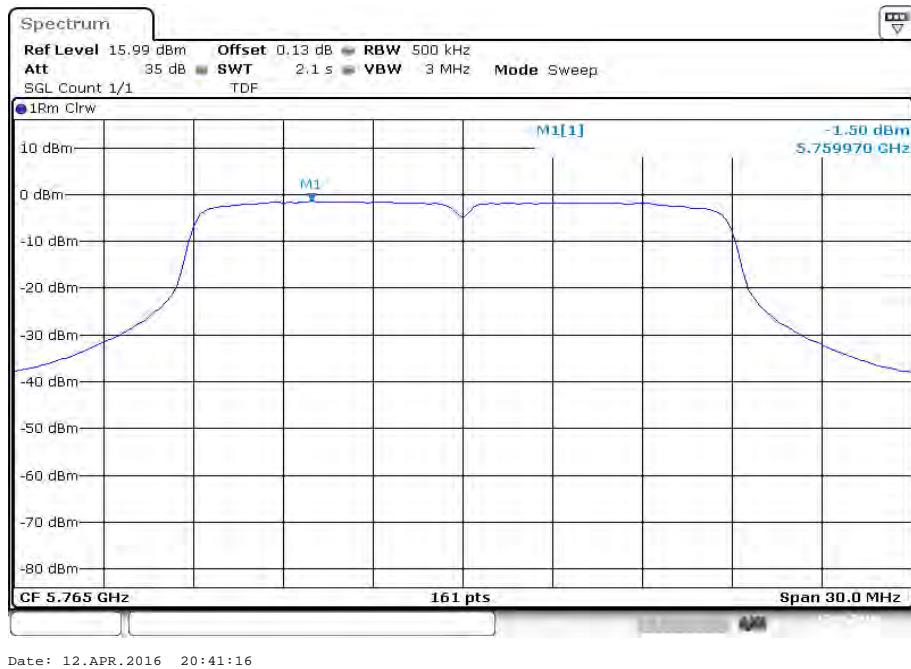
**Plot 3:** 5805 MHz**Plot 4:** 5825 MHz

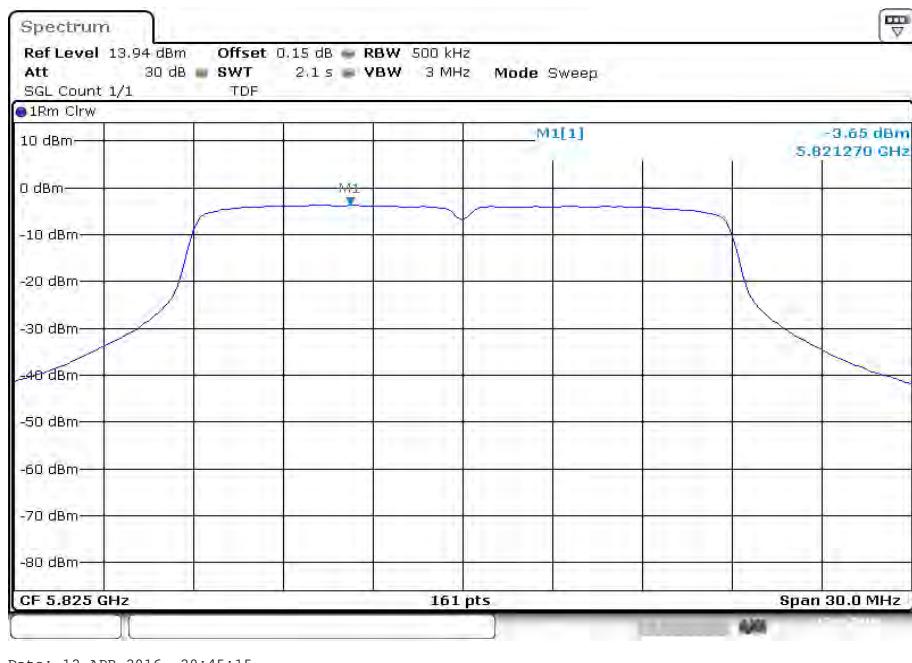
**Plots:** OFDM / n – mode, antenna port 3

**Plot 1:** 5745 MHz



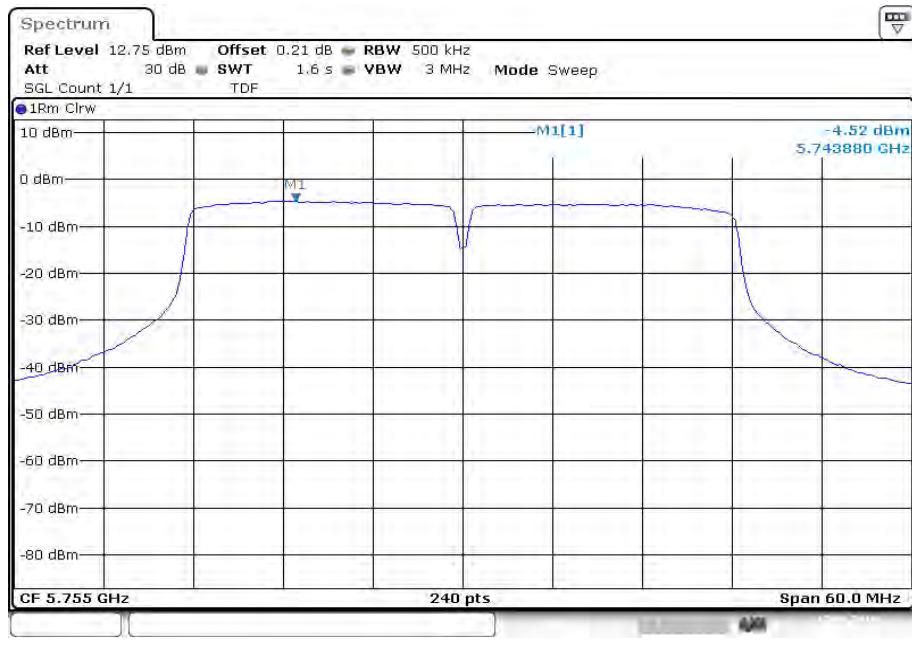
**Plot 2:** 5765 MHz



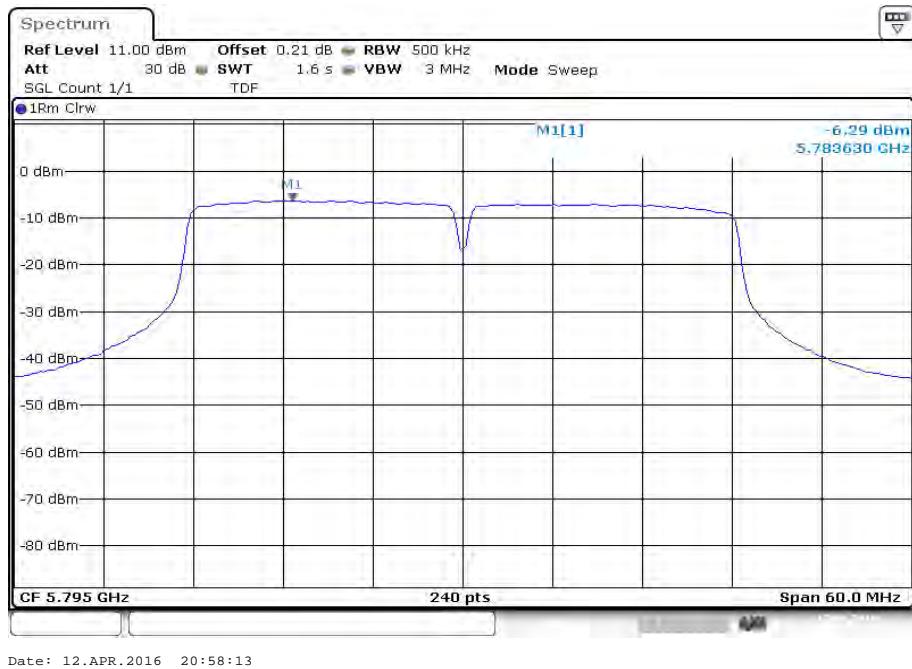
**Plot 3:** 5805 MHz**Plot 4:** 5825 MHz

**Plots:** OFDM / n40 – mode, antenna port 3

**Plot 1:** 5755 MHz



**Plot 2:** 5795 MHz



**12.6 Minimum emission bandwidth for the band 5.725-5.85 GHz****Description:**

Measurement of the 6 dB bandwidth of the modulated signal.

**Measurement:**

<b>Measurement parameter</b>	
<b>According to: KDB789033 D02, C.2.</b>	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	100 kHz
Video bandwidth:	300 kHz
Span:	40 MHz
Measurement procedure:	Using marker to find -6dBc frequencies
Trace-Mode:	Max hold (allow trace to stabilize)
Used test setup:	see chapter 7.5
Measurement uncertainty:	see chapter 8

**Limits:**

FCC	IC
Minimum Emission Bandwidth for the band 5.725-5.85 GHz	
The minimum 6 dB bandwidth shall be at least 500 kHz.	

**Result:** antenna port 1

<b>OFDM / a – mode</b>	<b>6 dB bandwidth [MHz]</b>			
	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	16.39	16.36	16.39	16.39

<b>OFDM / n HT20 – mode</b>	<b>6 dB bandwidth [MHz]</b>			
	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	17.38	17.59	17.62	17.59

<b>OFDM / n HT40 – mode</b>	<b>6 dB bandwidth [MHz]</b>	
	5755 MHz	5795 MHz
	36.02	36.02

**Result:** antenna port 2

<b>OFDM / a – mode</b>	<b>6 dB bandwidth [MHz]</b>			
	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	16.36	16.36	16.39	16.39

<b>OFDM / n HT20 – mode</b>	<b>6 dB bandwidth [MHz]</b>			
	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	17.59	17.59	17.59	17.35

<b>OFDM / n HT40 – mode</b>	<b>6 dB bandwidth [MHz]</b>	
	5755 MHz	5795 MHz
	36.02	36.14

**Result:** antenna port 3

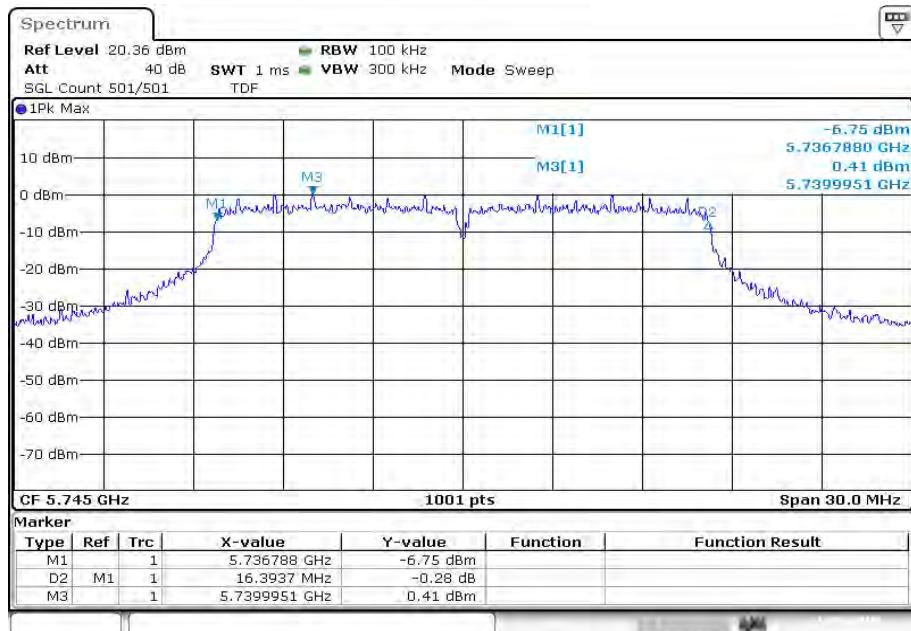
<b>OFDM / a – mode</b>	<b>6 dB bandwidth [MHz]</b>			
	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	16.36	16.36	16.39	16.39

<b>OFDM / n HT20 – mode</b>	<b>6 dB bandwidth [MHz]</b>			
	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	17.38	17.59	17.62	17.59

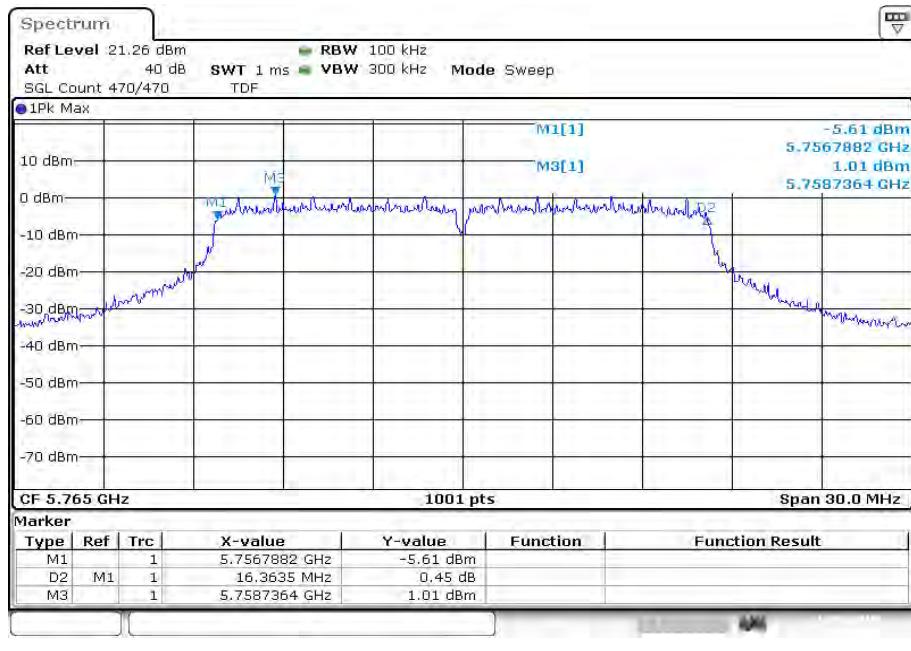
<b>OFDM / n HT40 – mode</b>	<b>6 dB bandwidth [MHz]</b>	
	5755 MHz	5795 MHz
	36.03	36.14

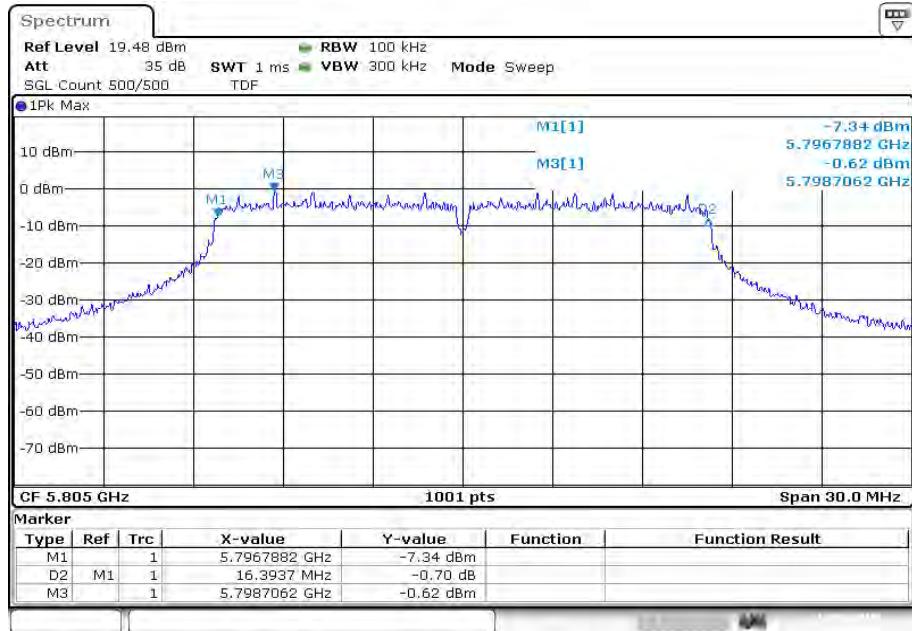
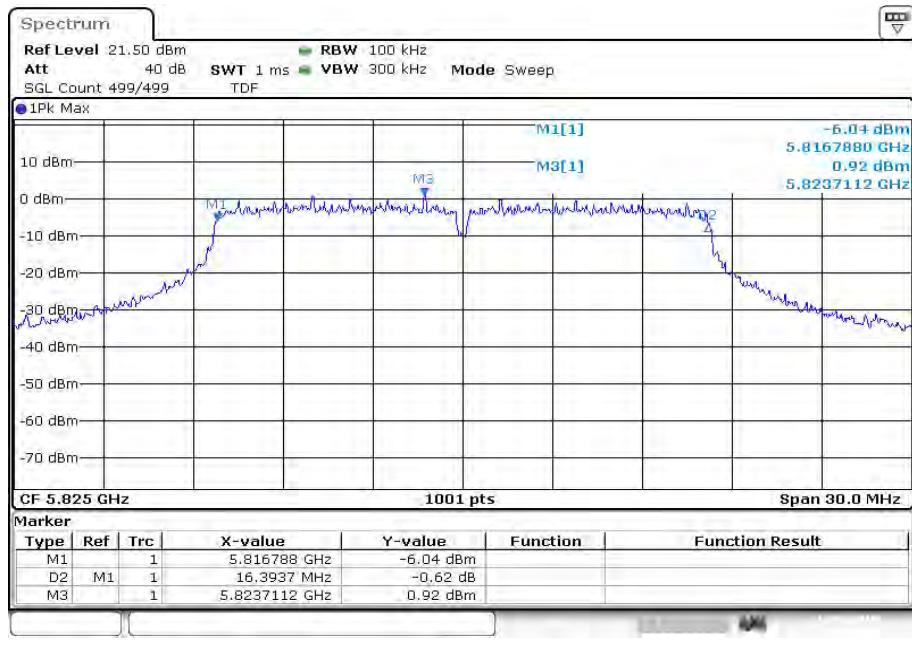
**Plots:** OFDM / a – mode; antenna port 1

### Plot 1: 5745 MHz



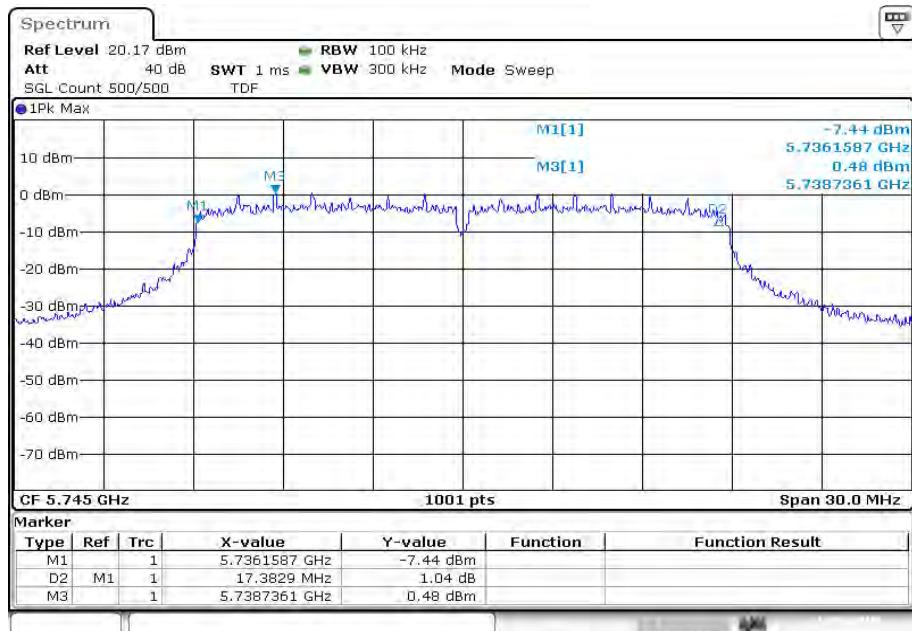
### Plot 2: 5765 MHz



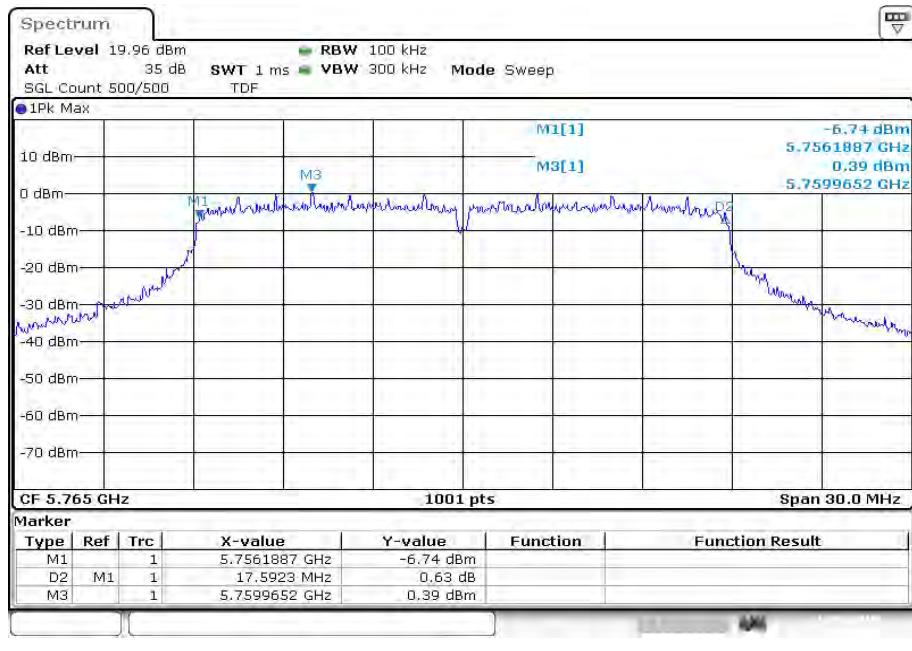
**Plot 3: 5805 MHz****Plot 4: 5825 MHz**

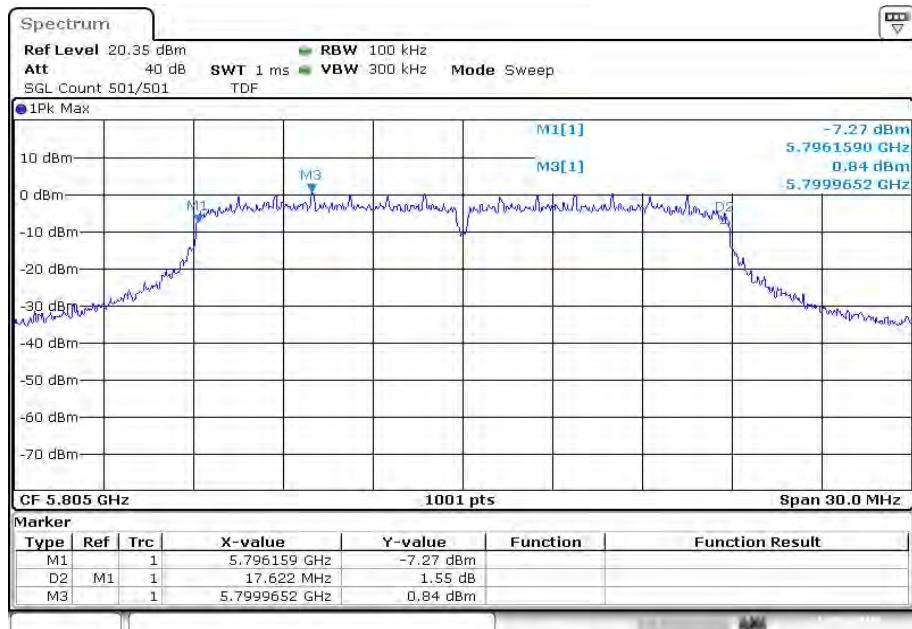
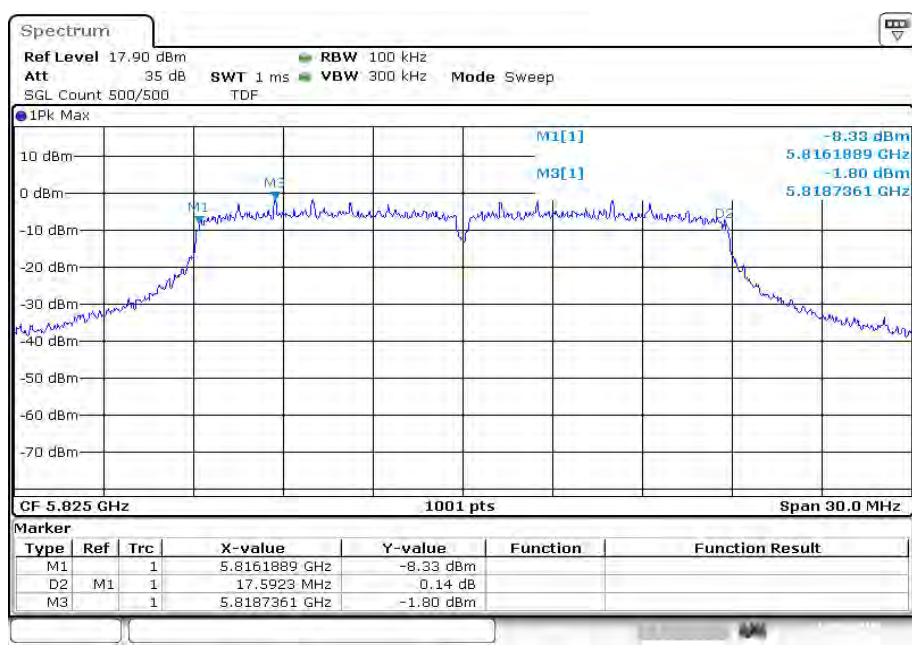
**Plots:** OFDM / n HT20 – mode; antenna port 1

### Plot 1: 5745 MHz



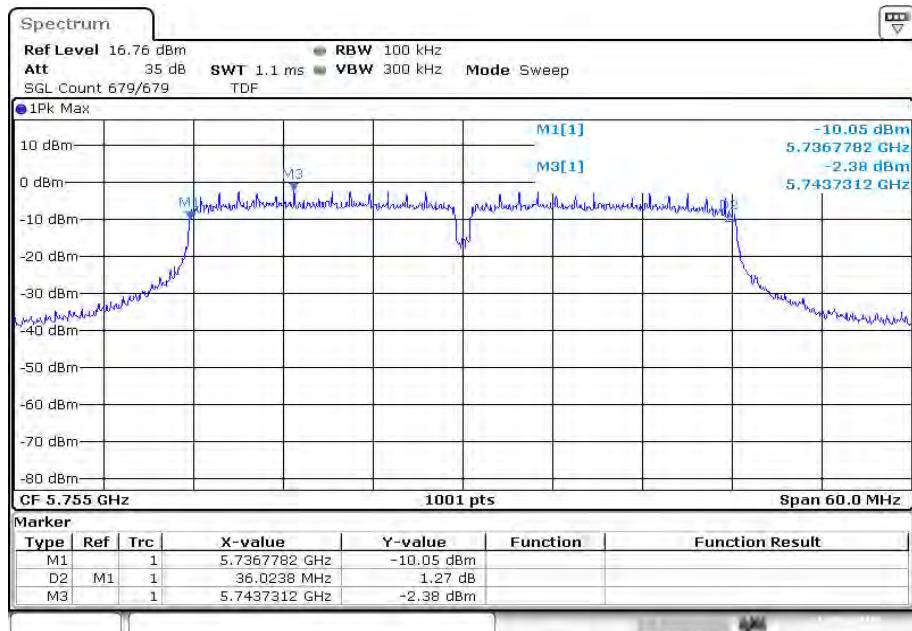
### Plot 2: 5765 MHz



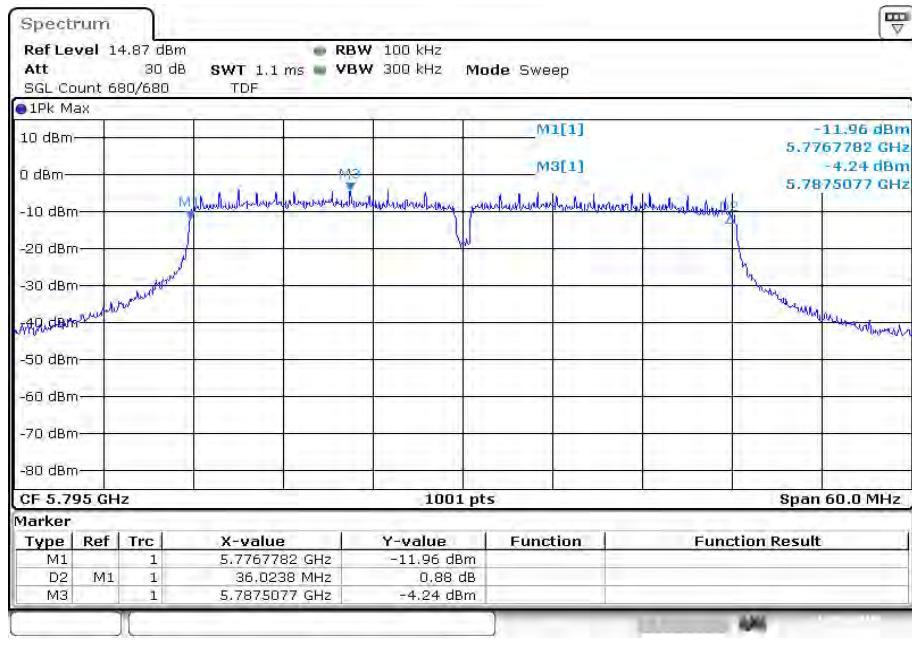
**Plot 3: 5805 MHz****Plot 4: 5825 MHz**

**Plots:** OFDM / n HT40 – mode; antenna port 1

### Plot 1: 5755 MHz

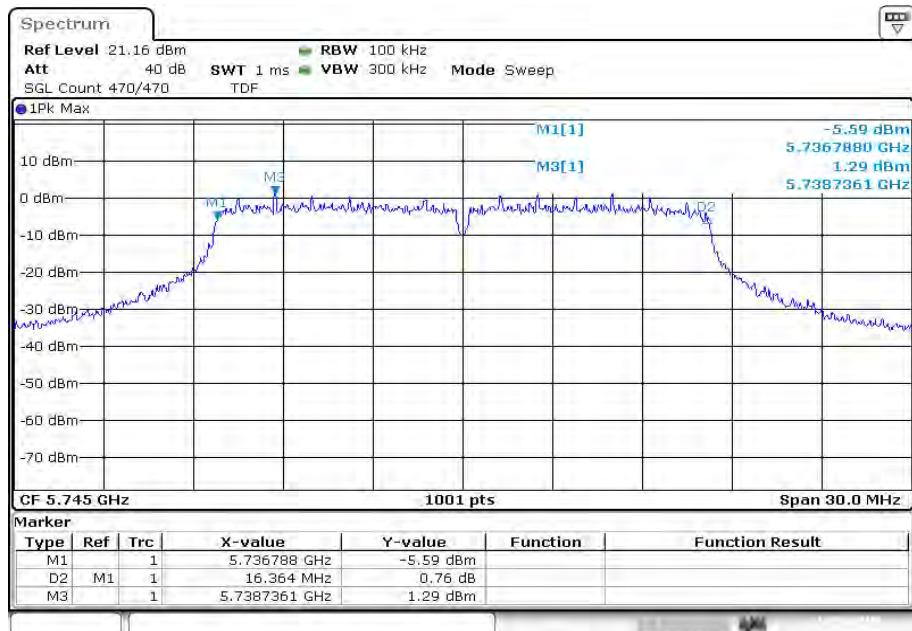


### Plot 2: 5795 MHz

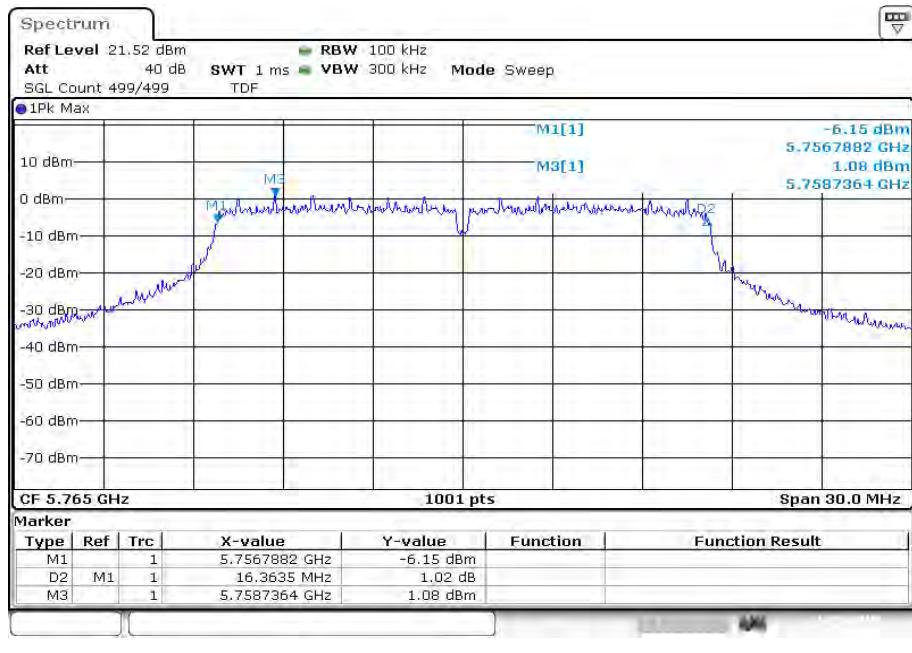


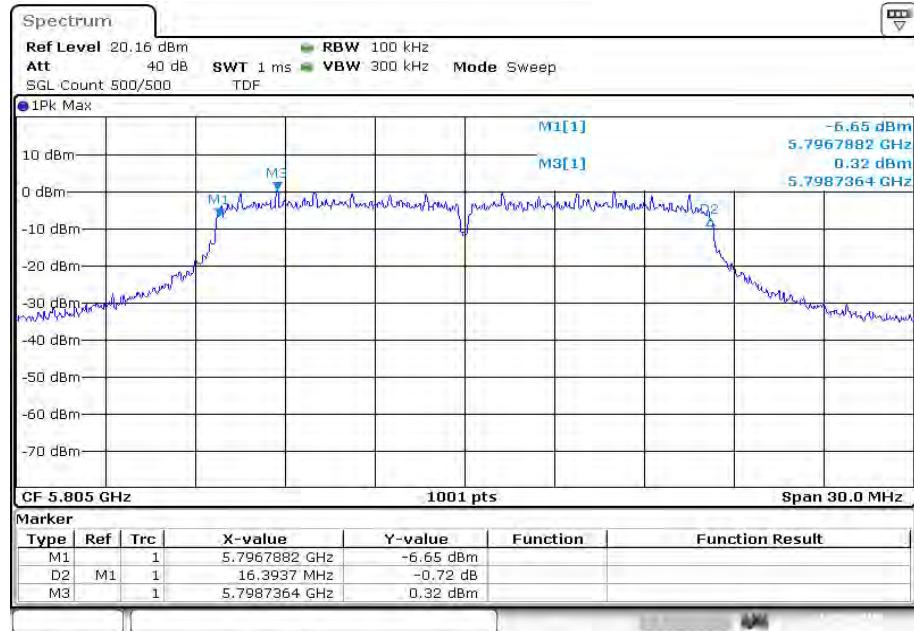
**Plots:** OFDM / a – mode; antenna port 2

### Plot 1: 5745 MHz

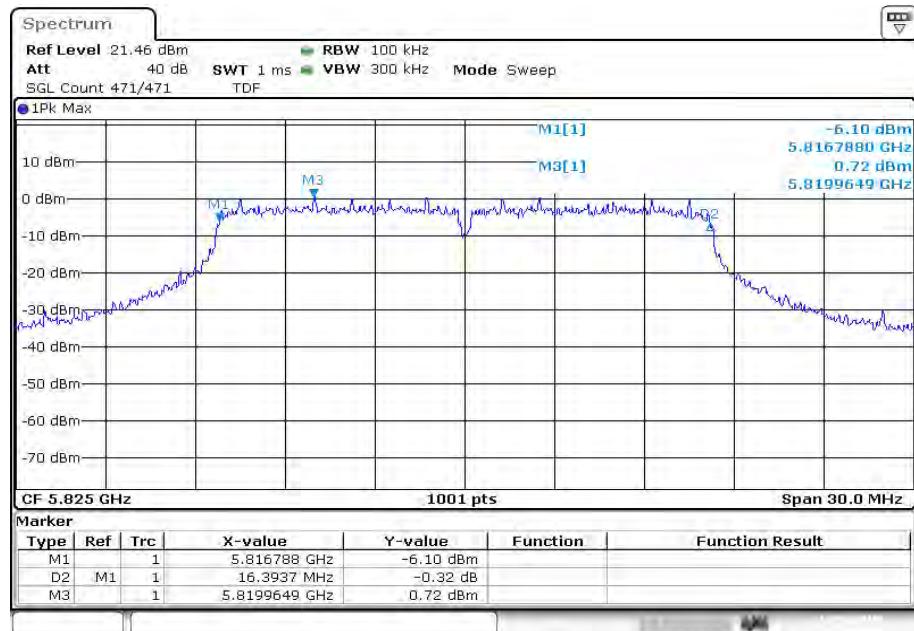


### Plot 2: 5765 MHz



**Plot 3: 5805 MHz**

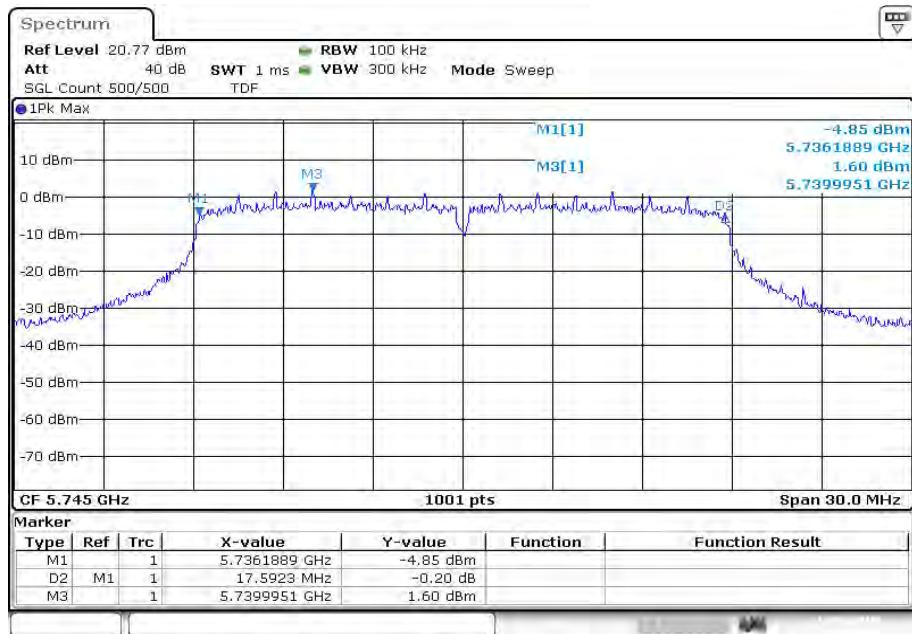
Date: 12.APR.2016 17:36:54

**Plot 4: 5825 MHz**

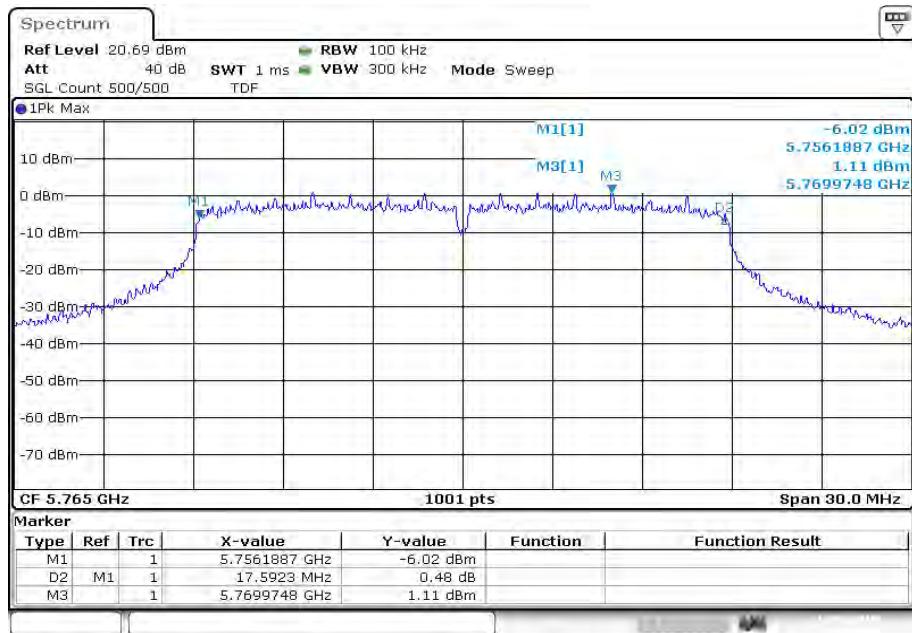
Date: 12.APR.2016 17:38:11

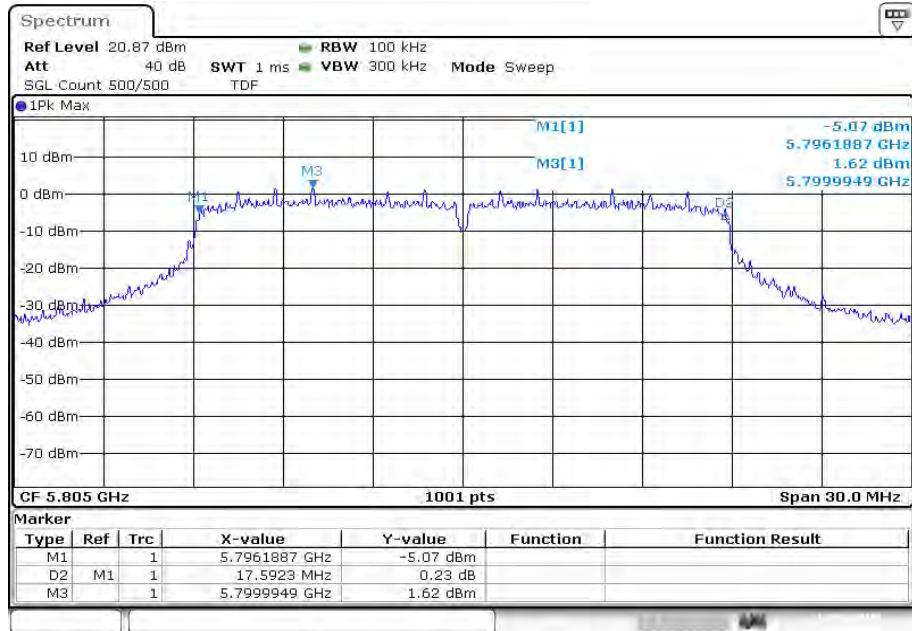
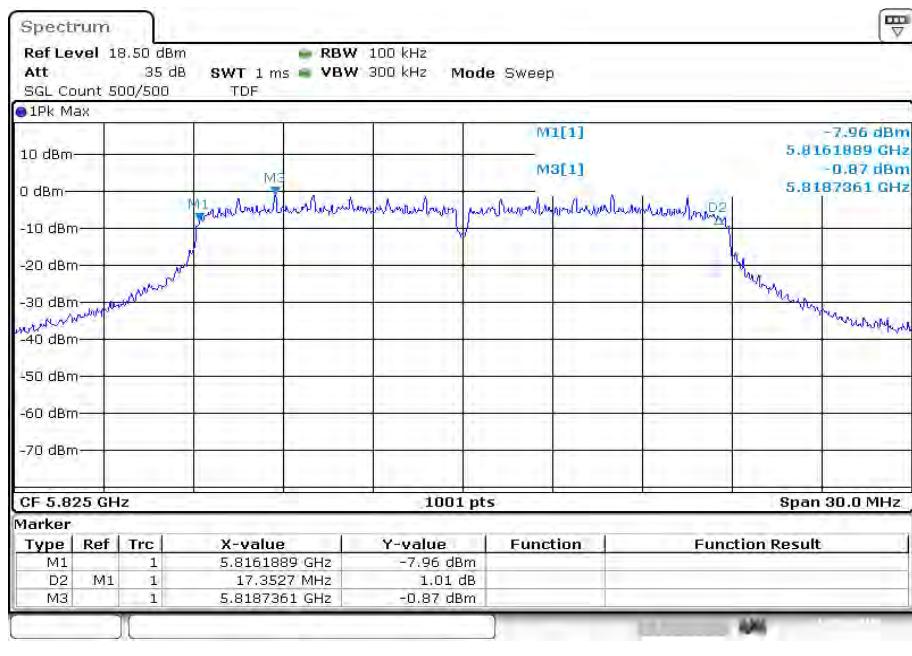
**Plots:** OFDM / n HT20 – mode; antenna port 2

### Plot 1: 5745 MHz



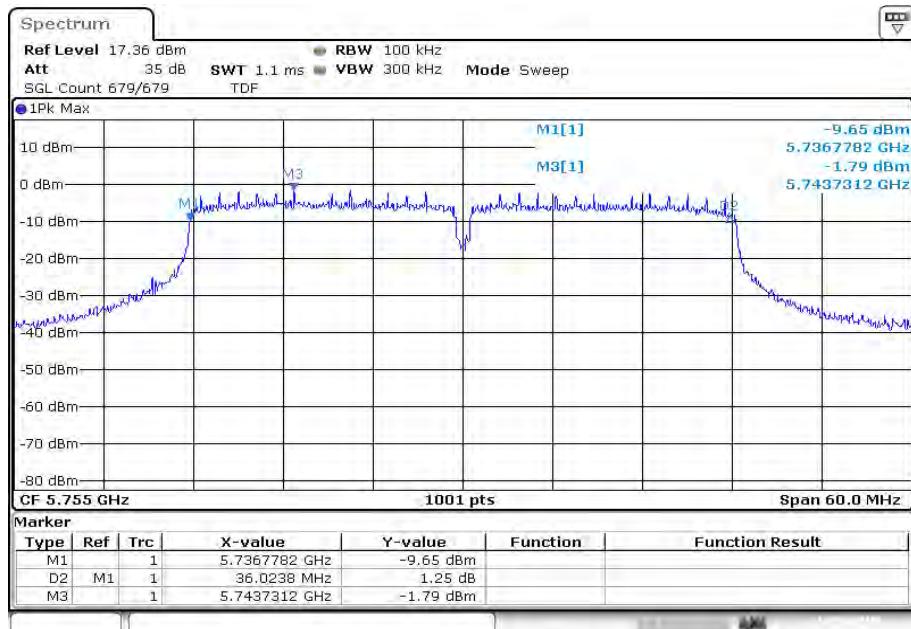
### Plot 2: 5765 MHz



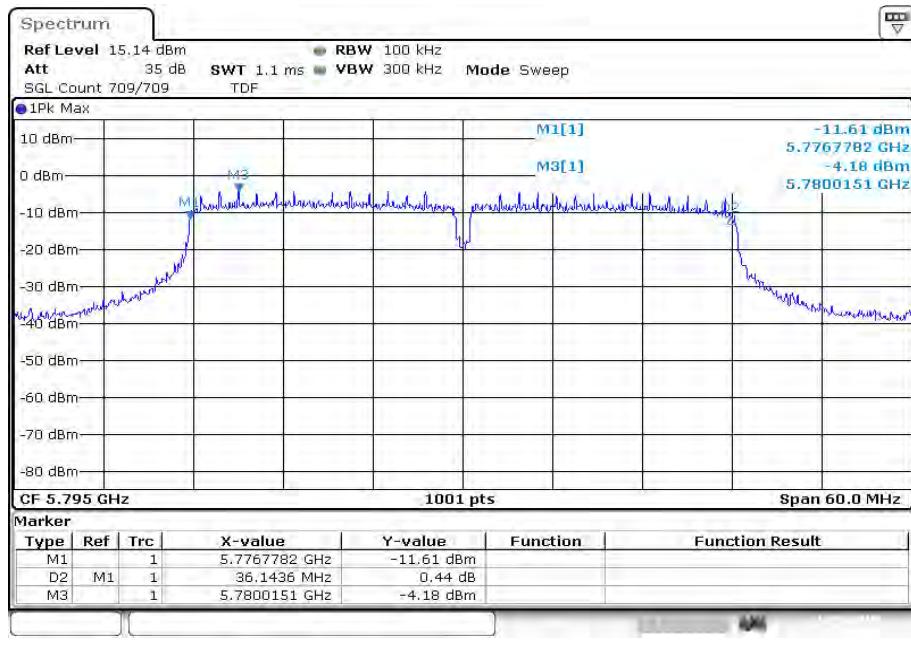
**Plot 3: 5805 MHz****Plot 4: 5825 MHz**

**Plots:** OFDM / n HT40 – mode; antenna port 2

### Plot 1: 5755 MHz

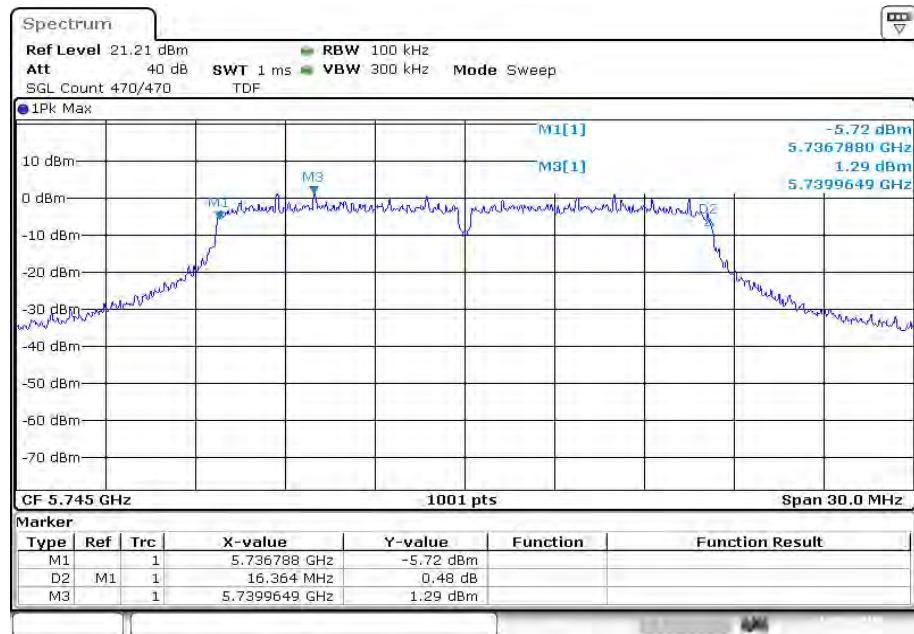


### Plot 2: 5795 MHz

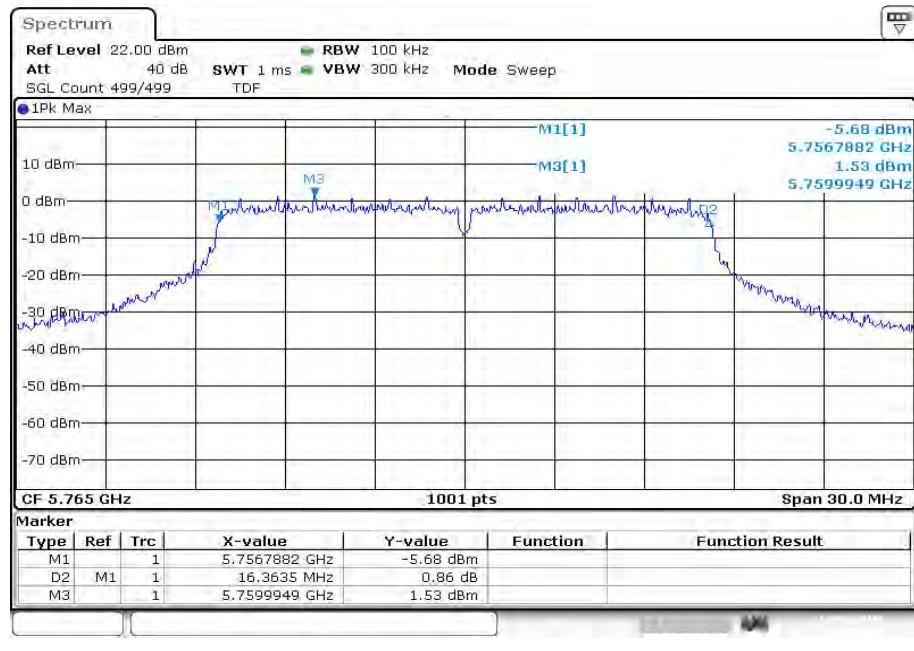


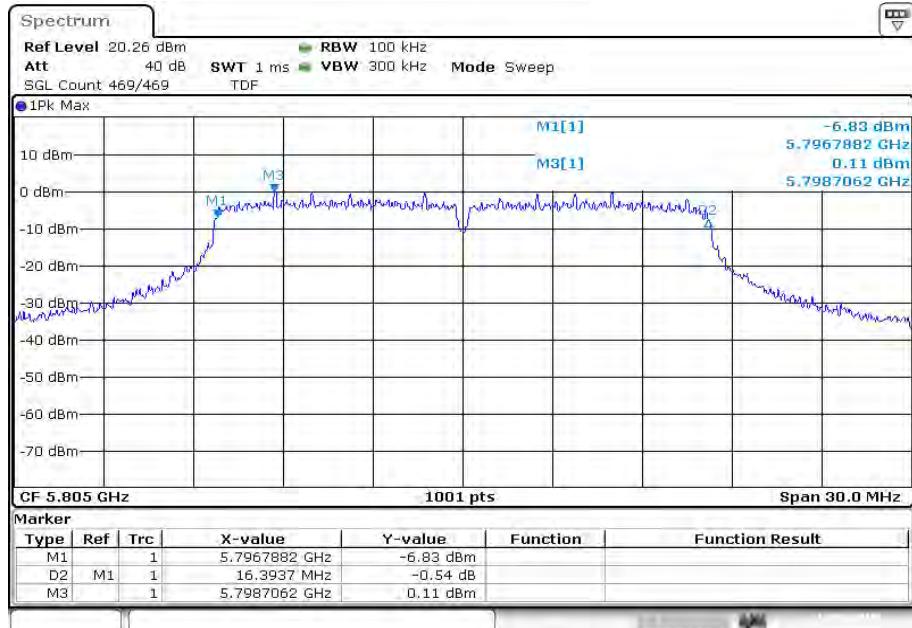
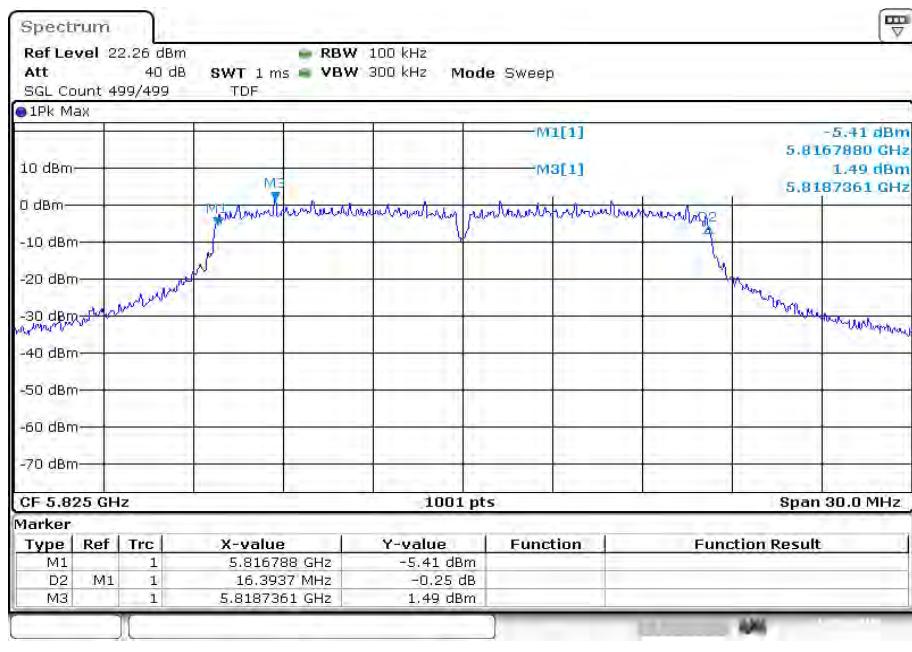
**Plots:** OFDM / a – mode; antenna port 3

### Plot 1: 5745 MHz



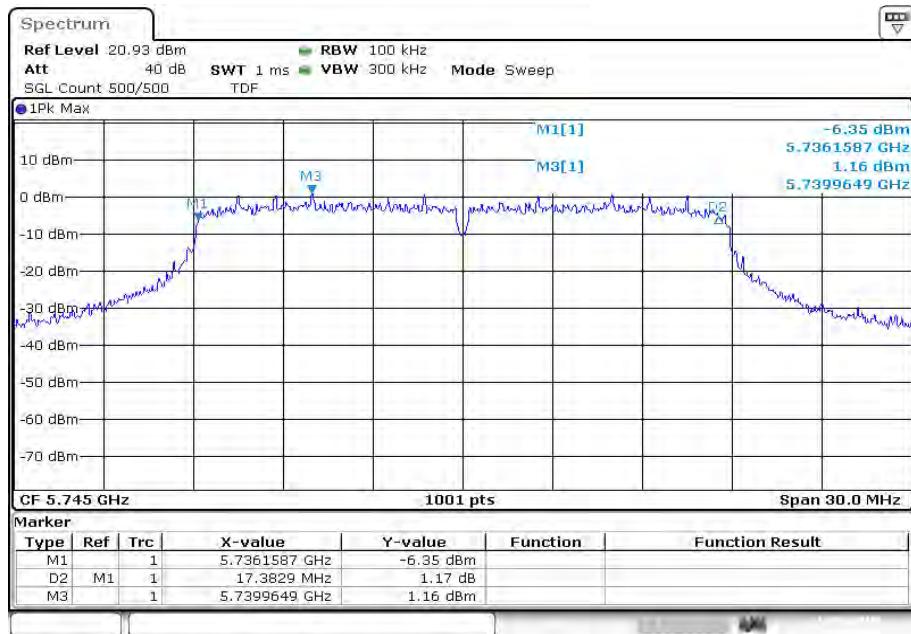
### Plot 2: 5765 MHz



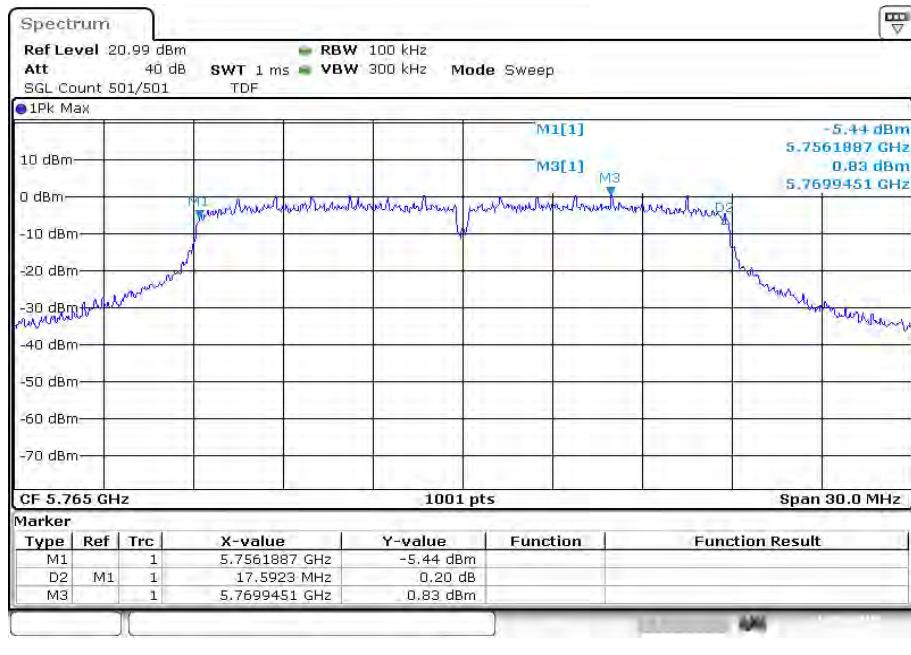
**Plot 3: 5805 MHz****Plot 4: 5825 MHz**

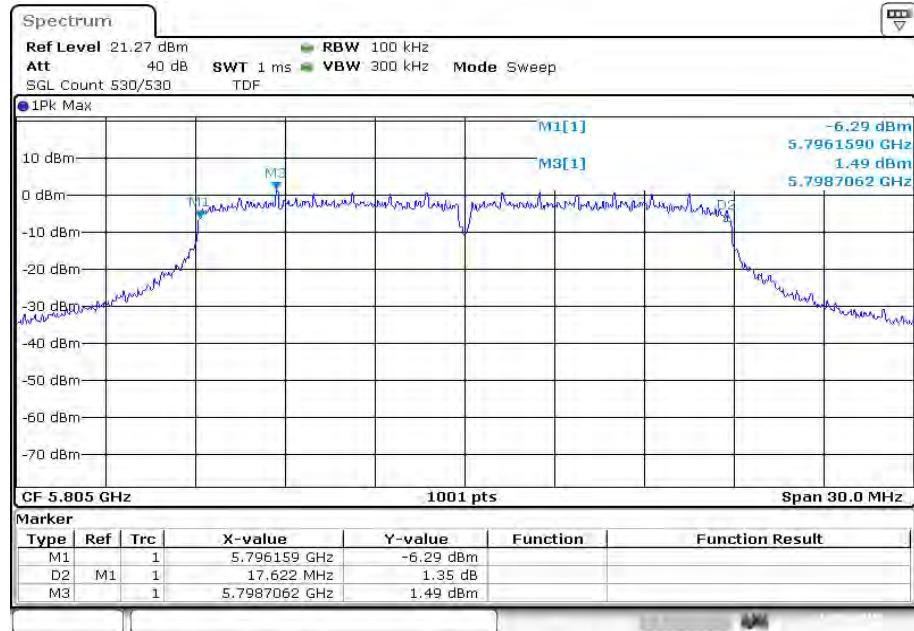
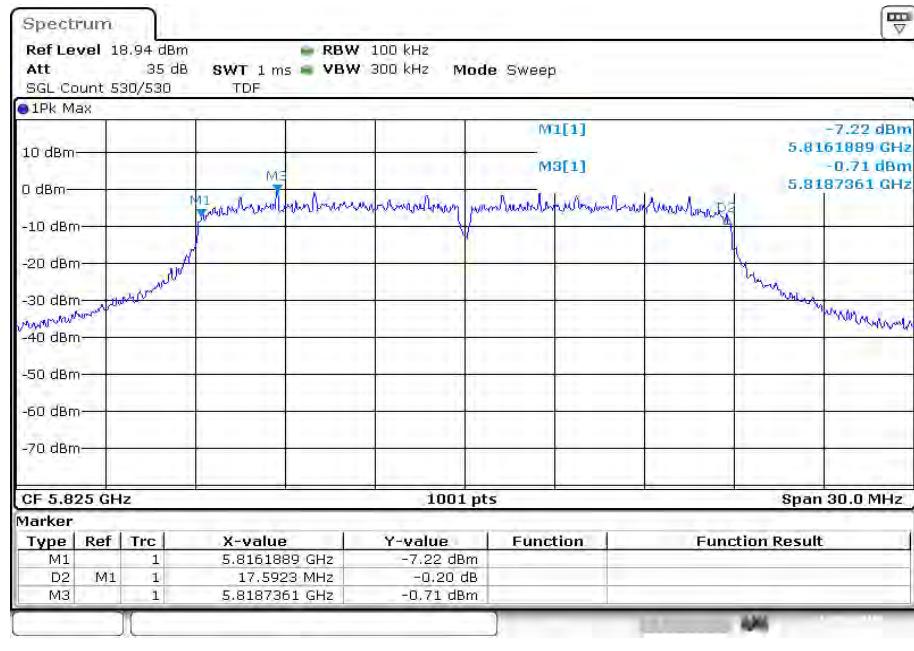
**Plots:** OFDM / n HT20 – mode; antenna port 3

### Plot 1: 5745 MHz



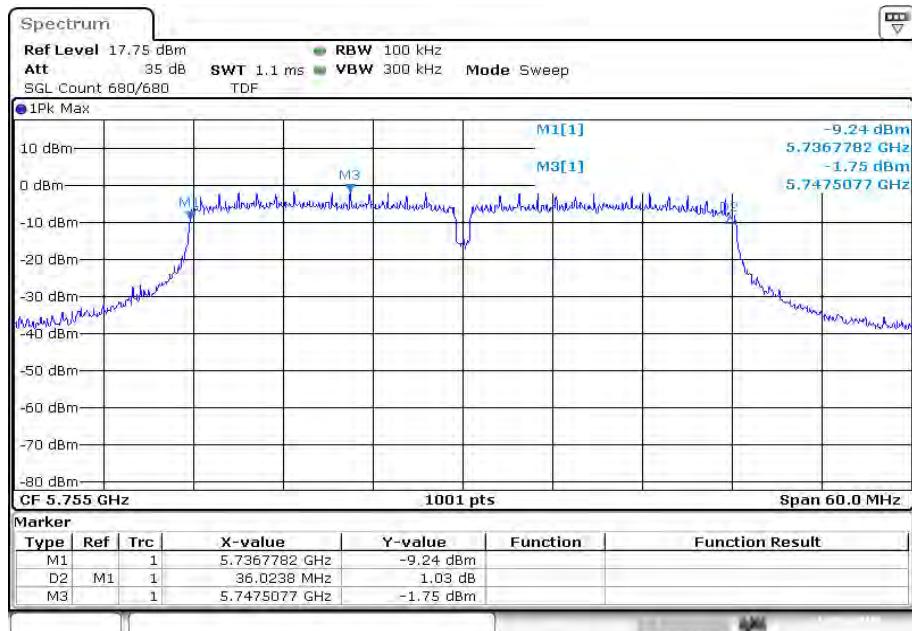
### Plot 2: 5765 MHz



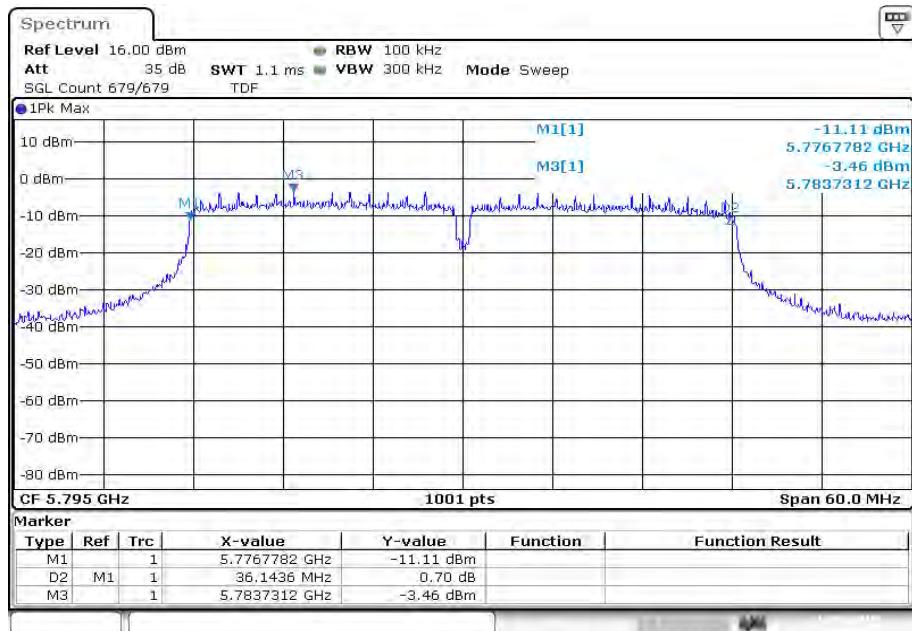
**Plot 3: 5805 MHz****Plot 4: 5825 MHz**

**Plots:** OFDM / n HT40 – mode; antenna port 3

### Plot 1: 5755 MHz



### Plot 2: 5795 MHz



## 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:	$\geq$ 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

<b>OFDM / a – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	22.53	23.23	23.13	22.98
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.18	23.13	22.43	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	23.78	22.68	23.58	23.33

<b>OFDM / n HT20 – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	24.43	24.18	24.08	23.53
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	24.08	23.98	23.53	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	24.33	23.63	24.58	23.83

<b>OFDM / n HT40 – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel	47.15	47.95	47.15	48.05
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	47.85	48.25	47.85	48.05
Channel	5755 MHz	5795 MHz	-/-	-/-
	47.35	48.45	-/-	-/-

**Result:** antenna port 2

<b>OFDM / a – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.38	23.58	23.53	22.83
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.13	23.18	22.98	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	23.58	23.38	24.13	23.48

<b>OFDM / n HT20 – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.63	23.58	23.58	23.33
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
	23.63	24.28	23.38	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	24.03	24.33	24.28	24.23

<b>OFDM / n HT40 – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel	46.75	47.85	46.25	47.85
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
	47.25	47.45	47.85	47.85
Channel	5755 MHz	5795 MHz	-/-	-/-
	46.95	46.75	-/-	-/-

**Result:** antenna port 3

<b>OFDM / a – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	22.93	23.03	23.43	23.38
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Channel	22.18	23.67	23.28	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	22.83	22.98	23.28	23.88

<b>OFDM / n HT20 – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5180 MHz	5200 MHz	5300 MHz	5320 MHz
Channel	23.67	23.63	23.63	23.73
Channel	5500 MHz	5600 MHz	5700 MHz	-/-
Channel	23.98	24.23	23.33	-/-
Channel	5745 MHz	5765 MHz	5805 MHz	5825 MHz
	24.13	23.88	23.88	23.63

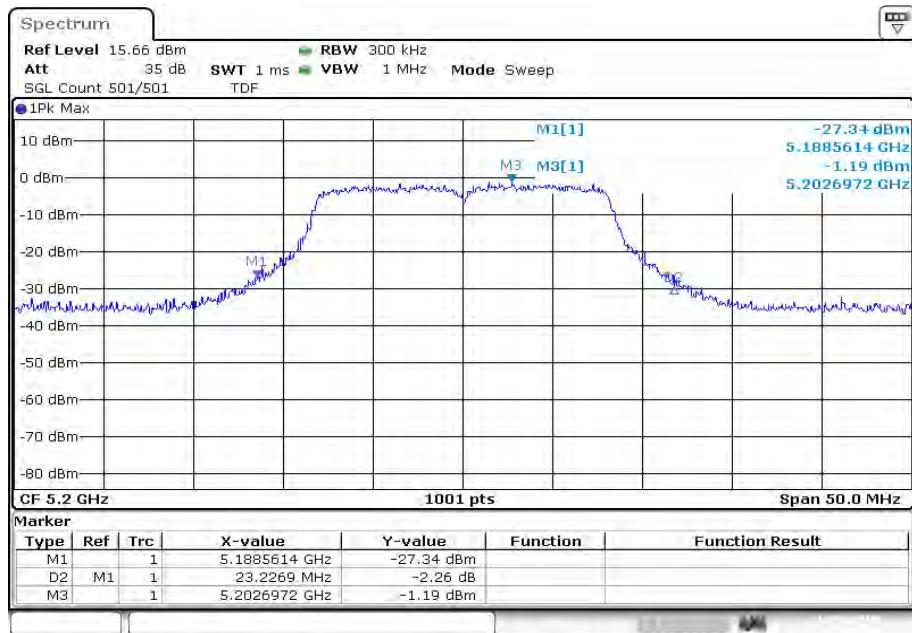
<b>OFDM / n HT40 – mode</b>	<b>26 dB bandwidth [MHz]</b>			
	5190 MHz	5230 MHz	5270 MHz	5310 MHz
Channel	48.15	48.95	47.55	46.85
Channel	5510 MHz	5550 MHz	5630 MHz	5670 MHz
Channel	47.55	46.95	46.95	46.45
Channel	5755 MHz	5795 MHz	-/-	-/-
	46.45	47.45	-/-	-/-

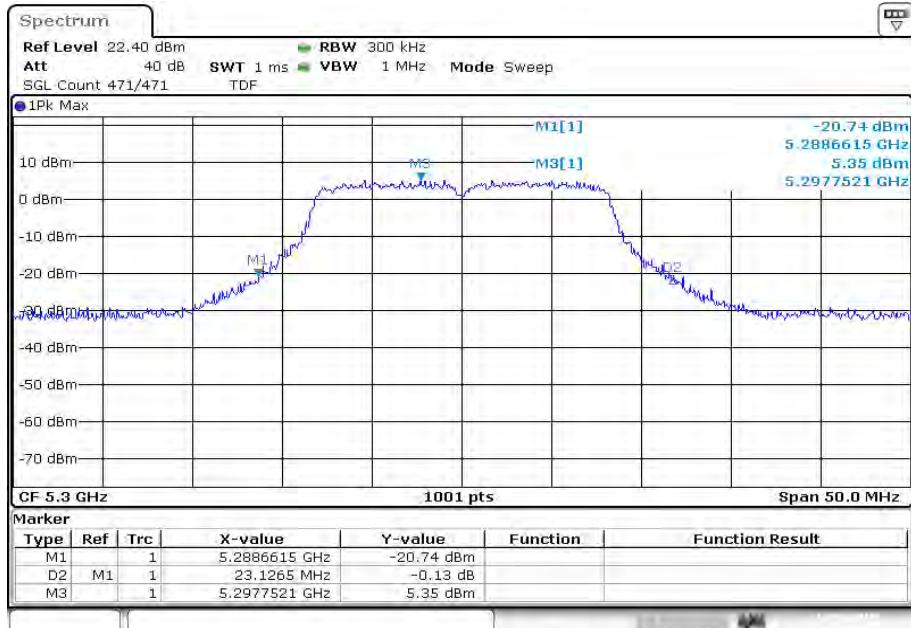
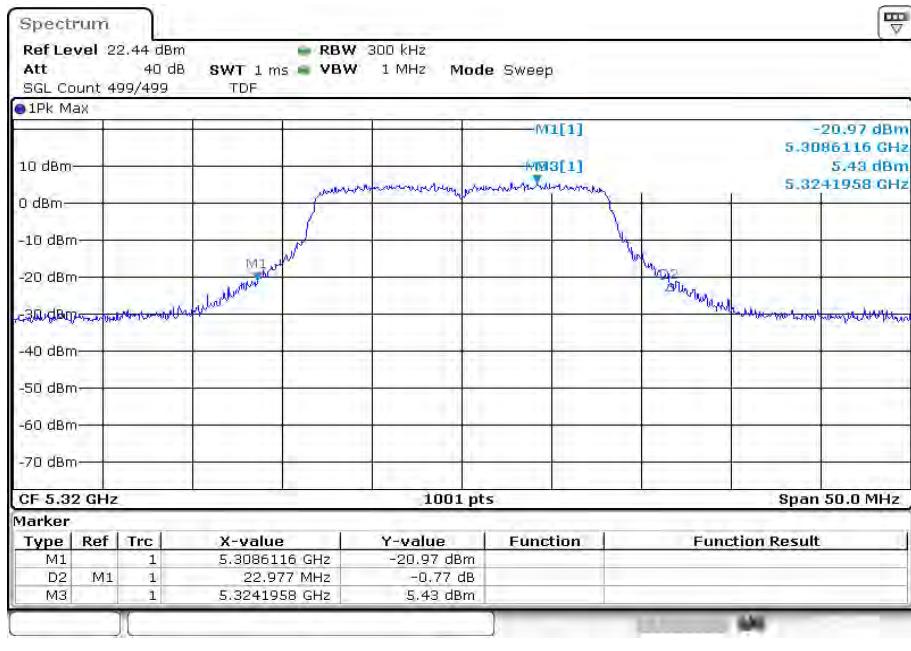
**Plots:** OFDM / a – mode, antenna port 1

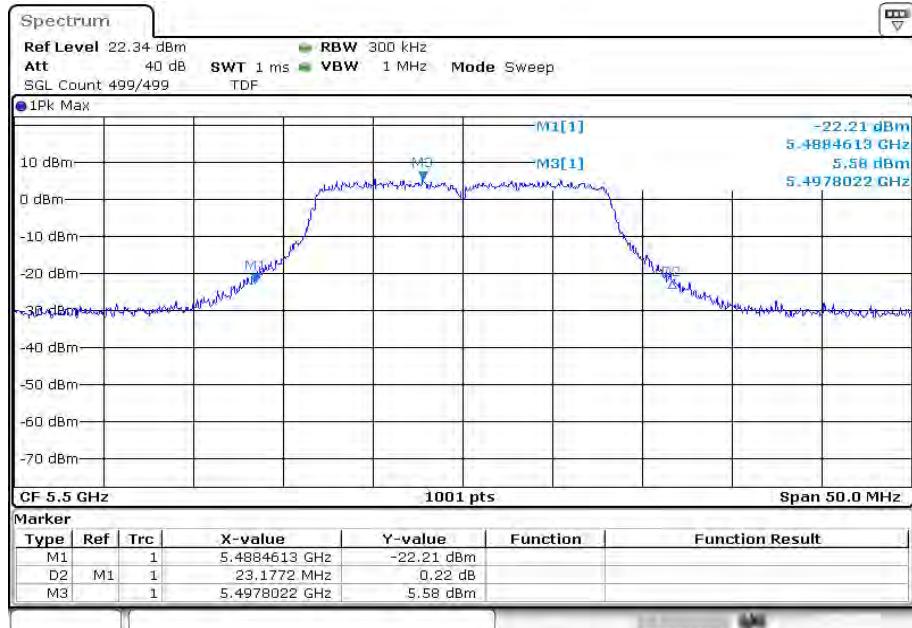
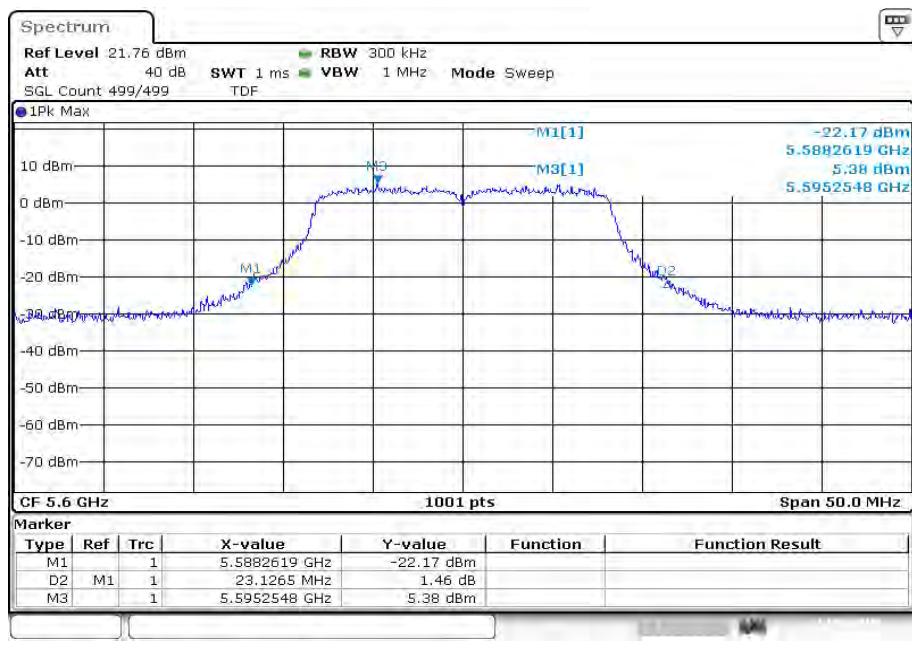
**Plot 1:** 5180 MHz

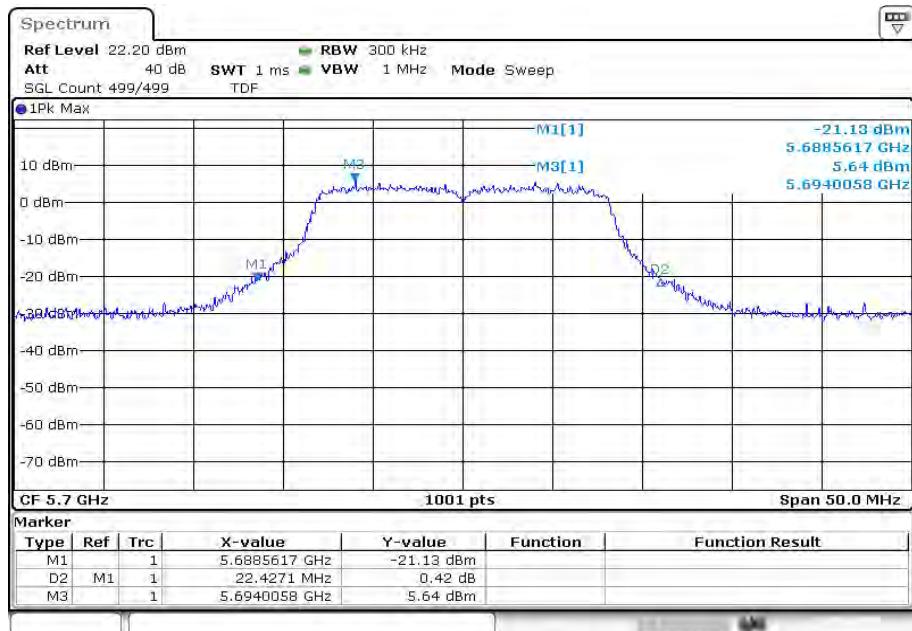


**Plot 2:** 5200 MHz

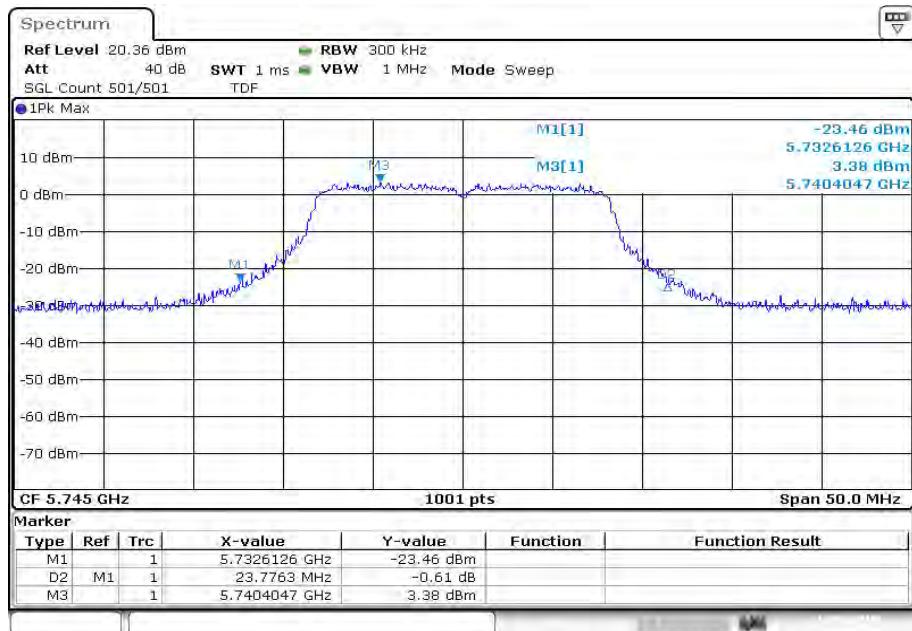


**Plot 3:** 5300 MHz**Plot 4:** 5320 MHz

**Plot 5: 5500 MHz****Plot 6: 5600 MHz**

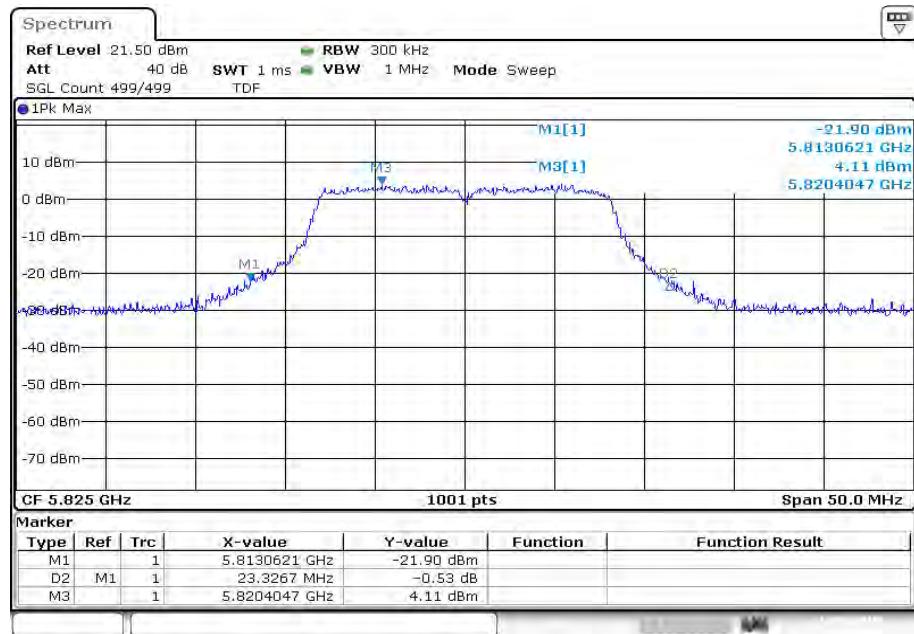
**Plot 7:** 5700 MHz

Date: 12.APR.2016 18:07:46

**Plot 8:** 5745 MHz

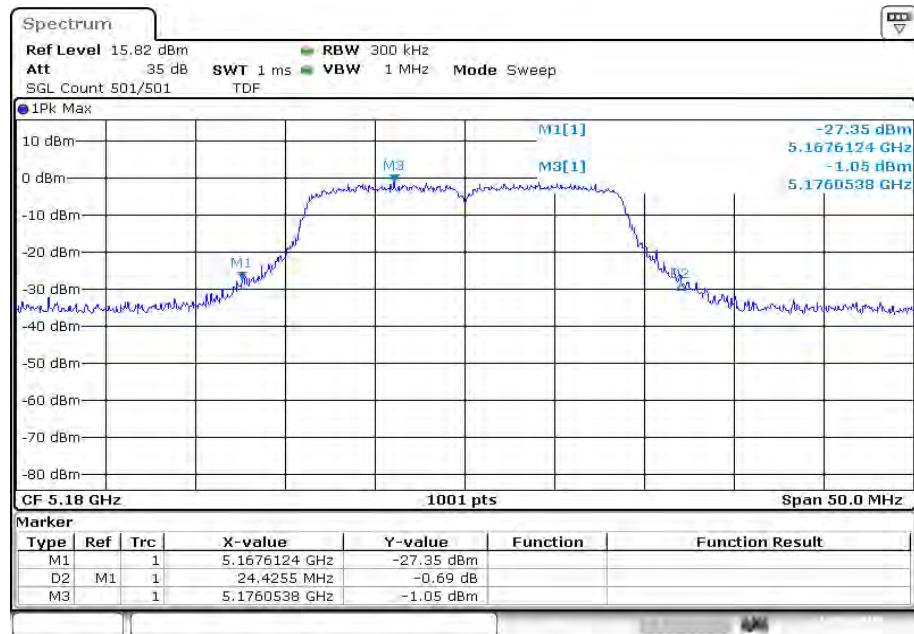
Date: 12.APR.2016 18:09:00

**Plot 9: 5765 MHz****Plot 10: 5805 MHz**

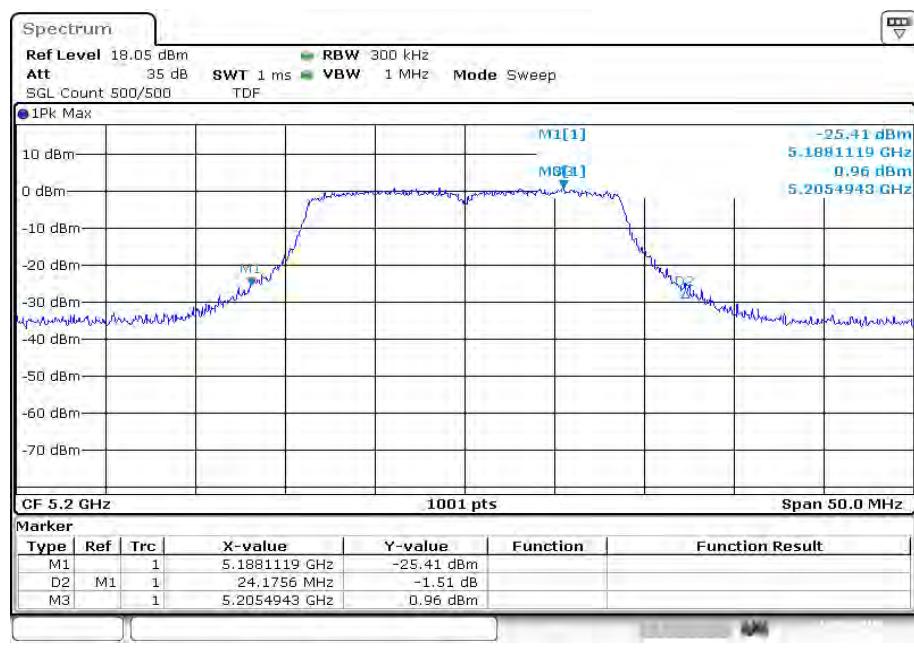
**Plot 11: 5825 MHz**

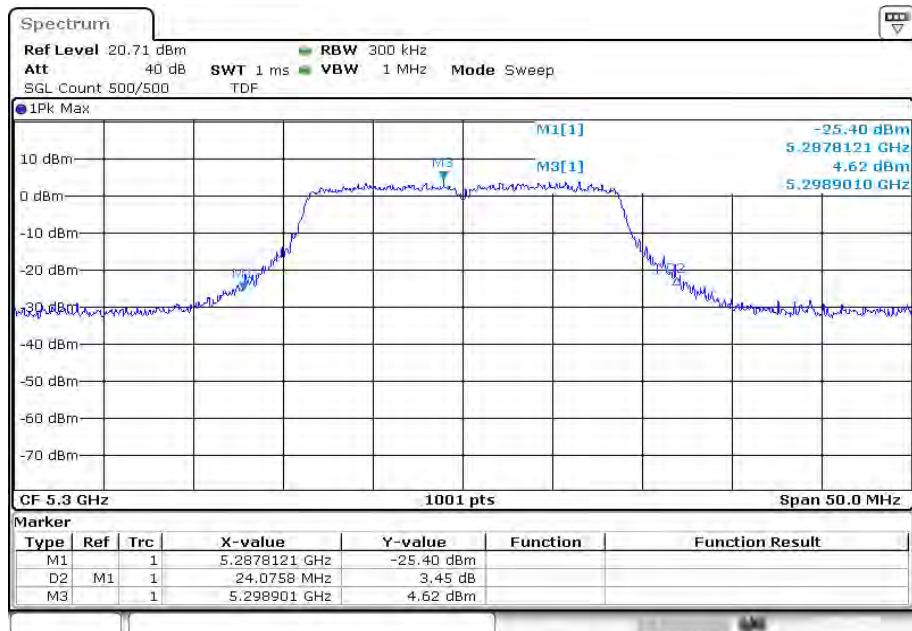
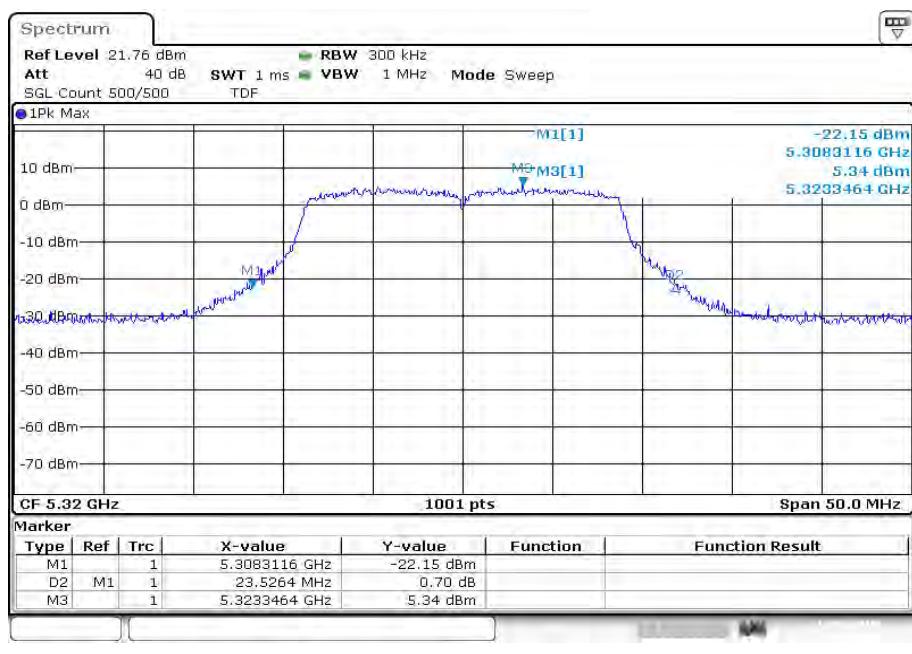
**Plots:** OFDM / n HT20 – mode, antenna port 1

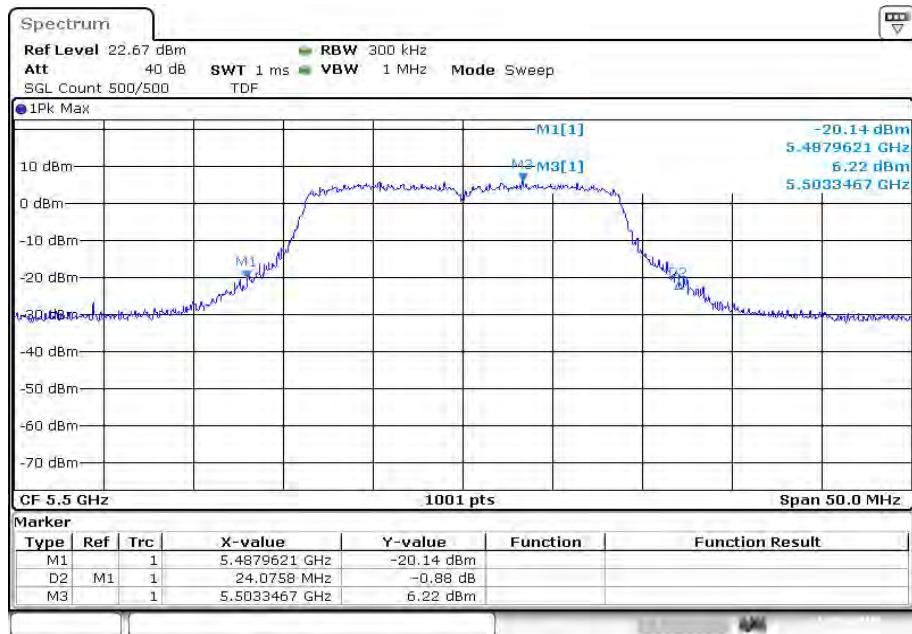
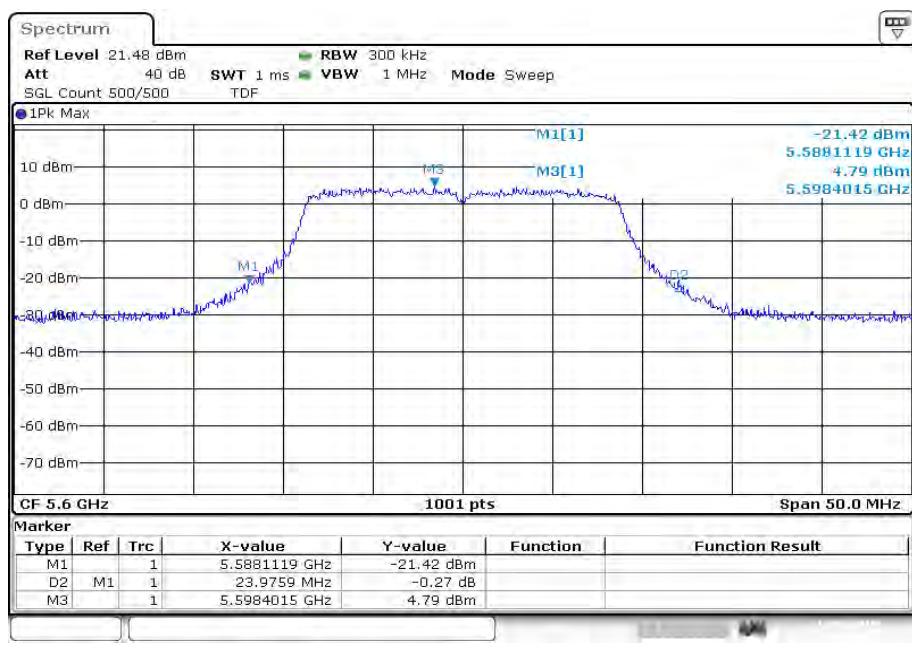
**Plot 1:** 5180 MHz

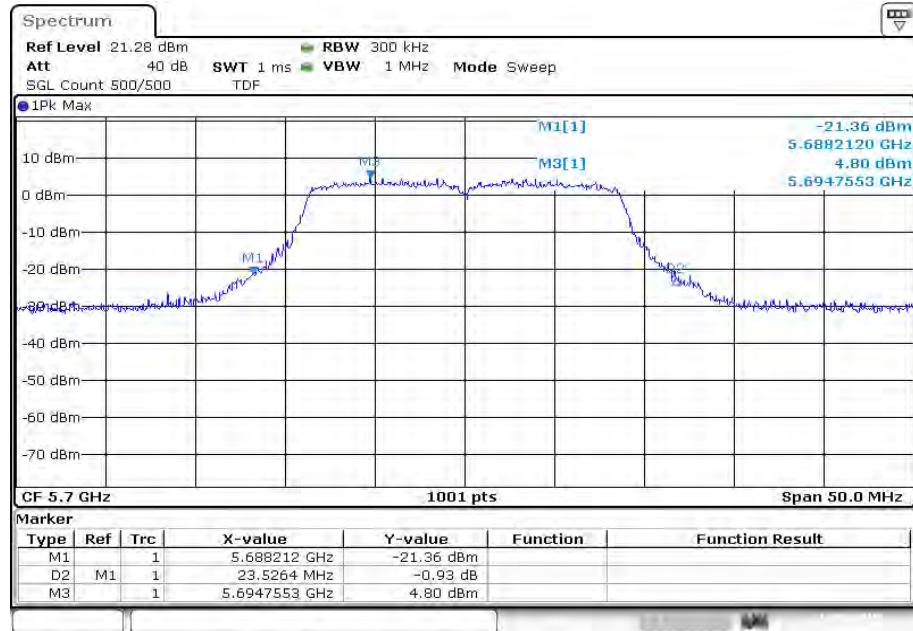


**Plot 2:** 5200 MHz

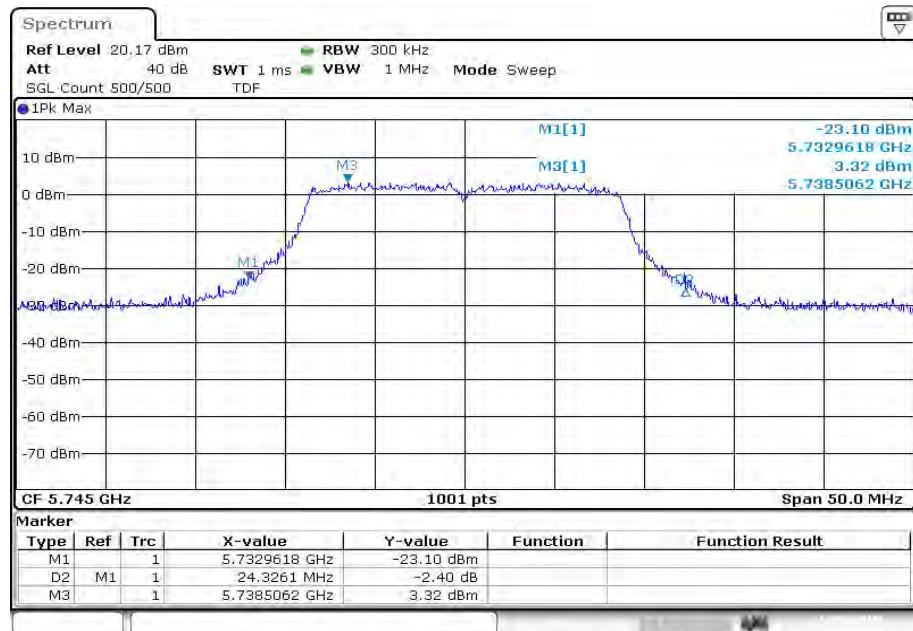


**Plot 3:** 5300 MHz**Plot 4:** 5320 MHz

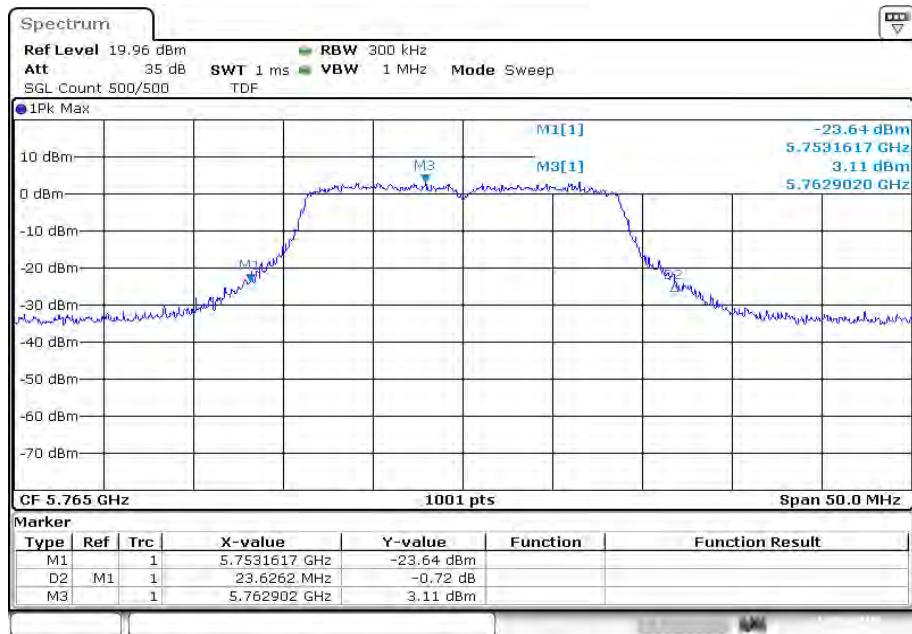
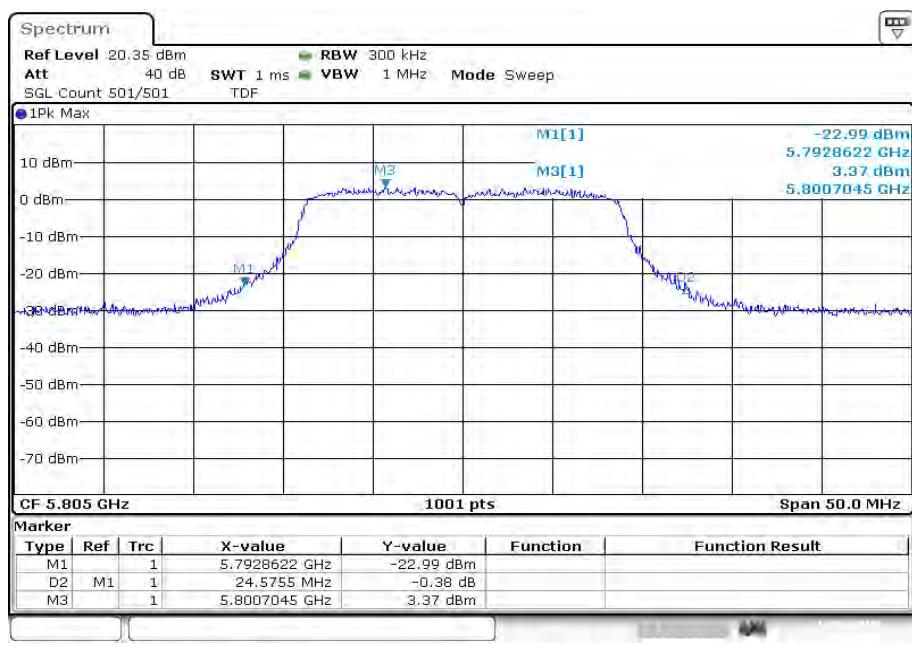
**Plot 5:** 5500 MHz**Plot 6:** 5600 MHz

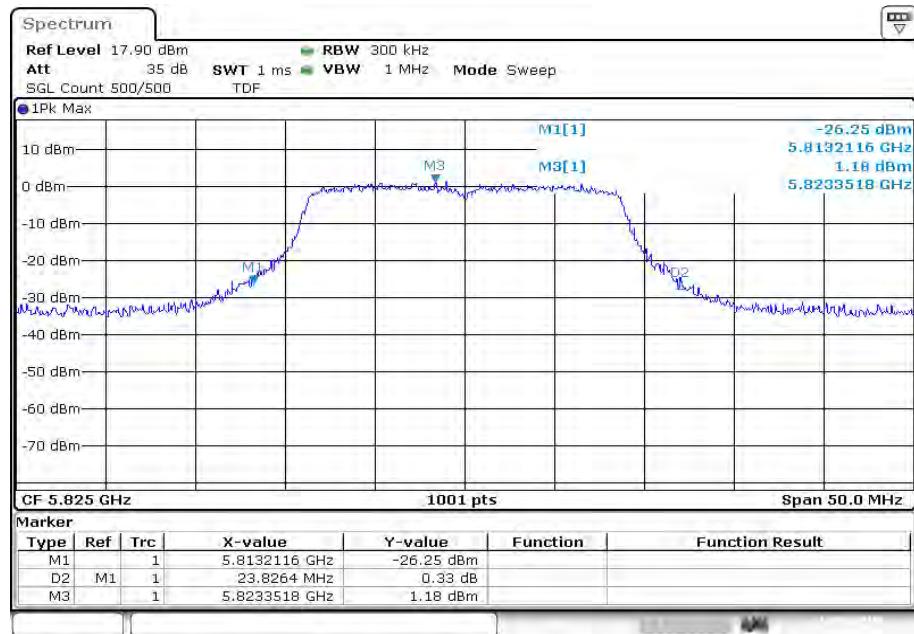
**Plot 7:** 5700 MHz

Date: 12.APR.2016 18:37:17

**Plot 8:** 5745 MHz

Date: 12.APR.2016 18:38:31

**Plot 9: 5765 MHz****Plot 10: 5805 MHz**

**Plot 11: 5825 MHz**

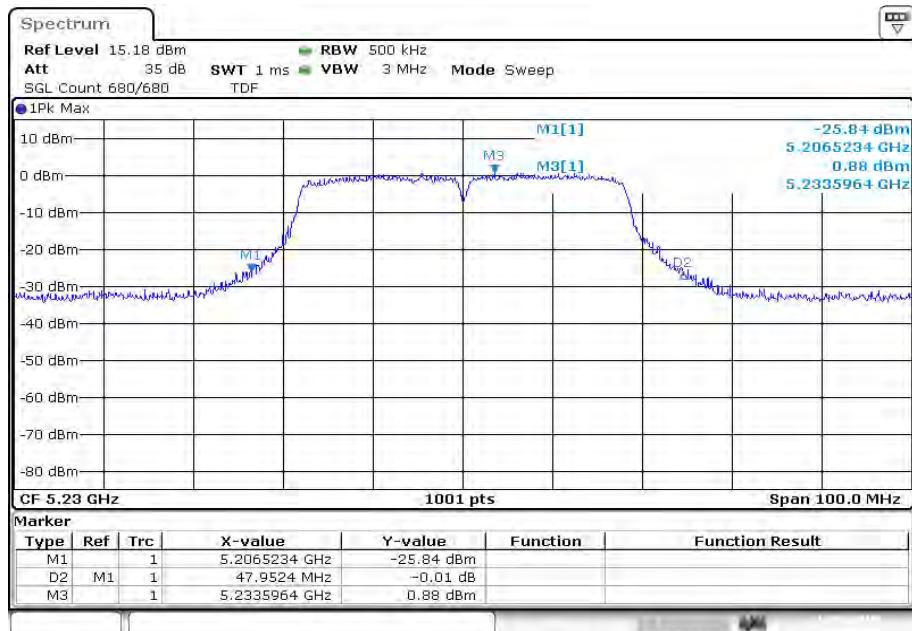
Date: 12.APR.2016 18:43:51

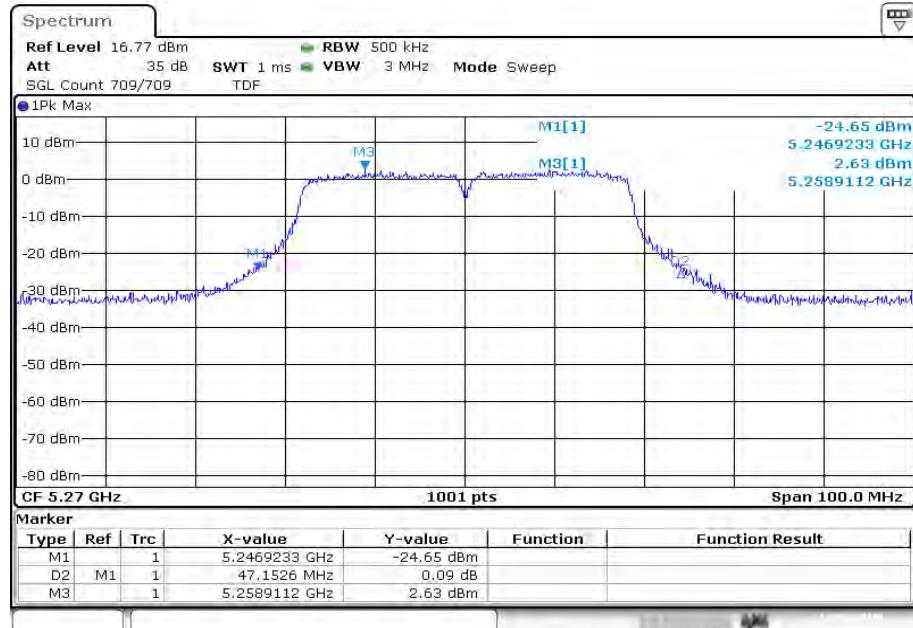
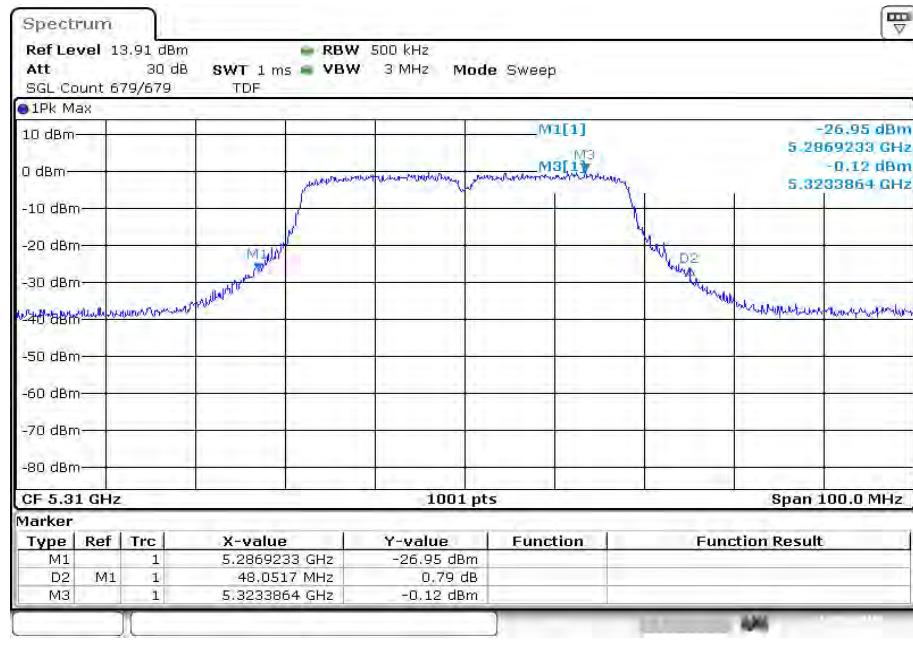
**Plots:** OFDM / n HT40 – mode, antenna port 1

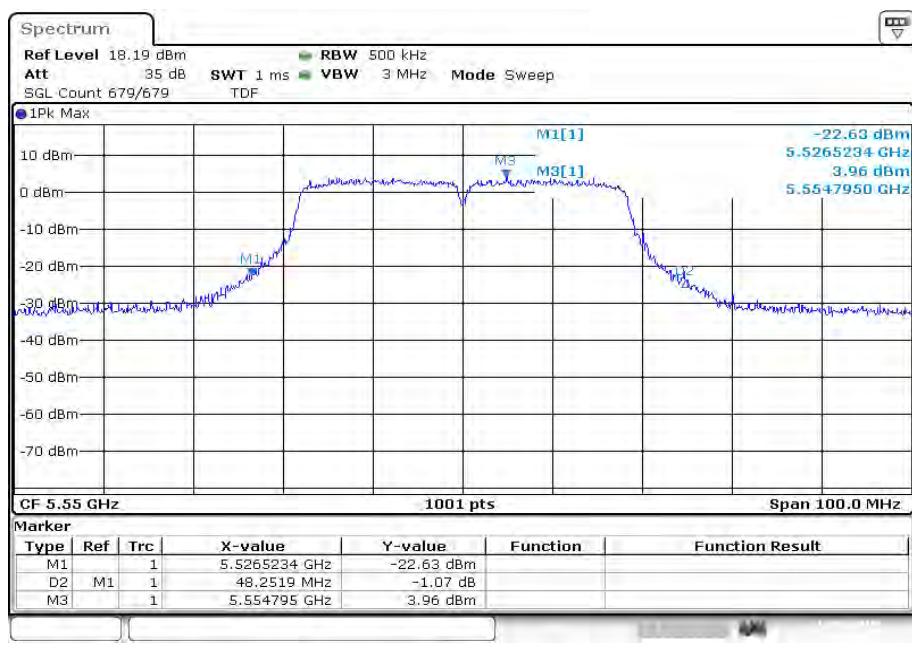
**Plot 1:** 5190 MHz

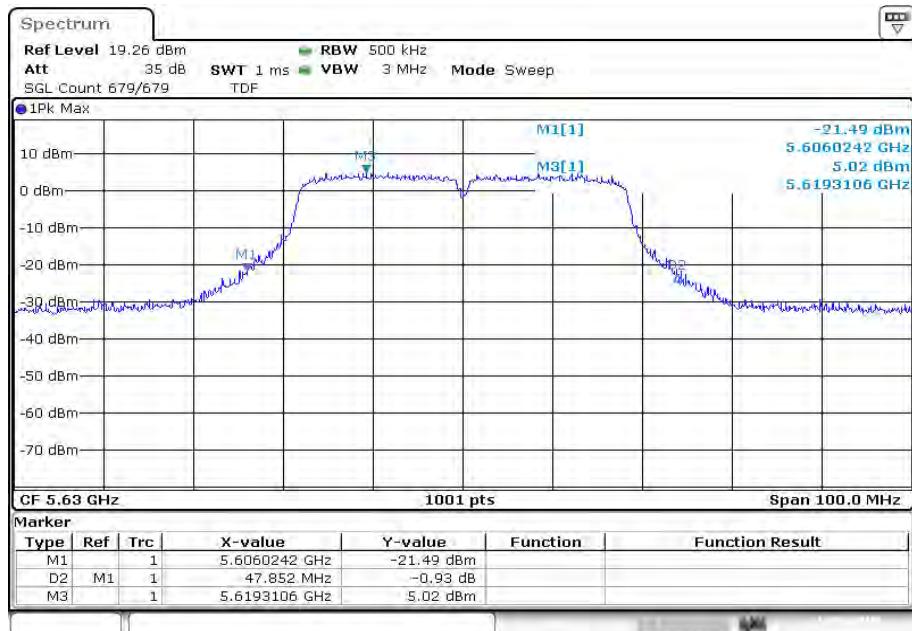
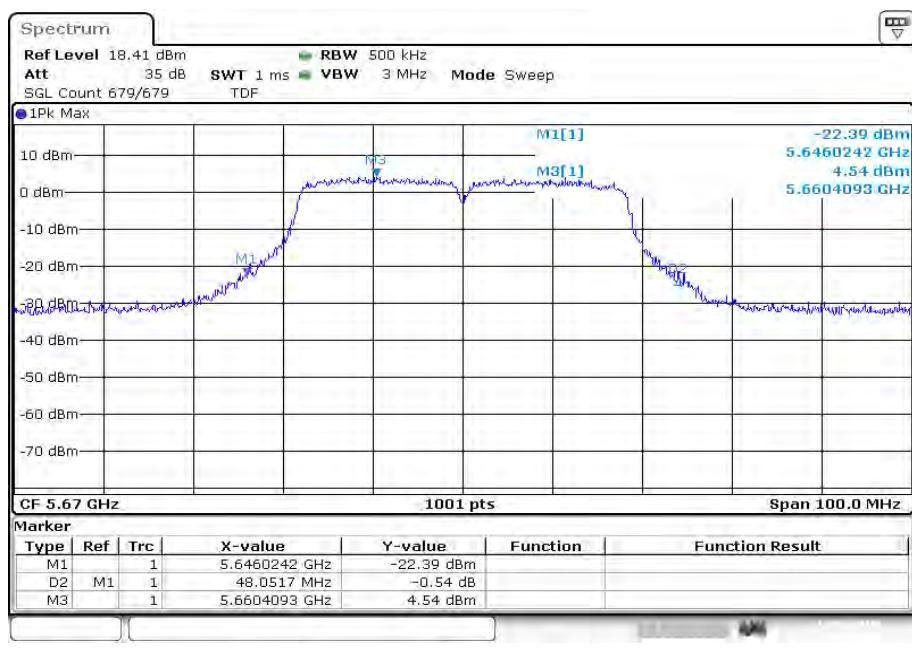


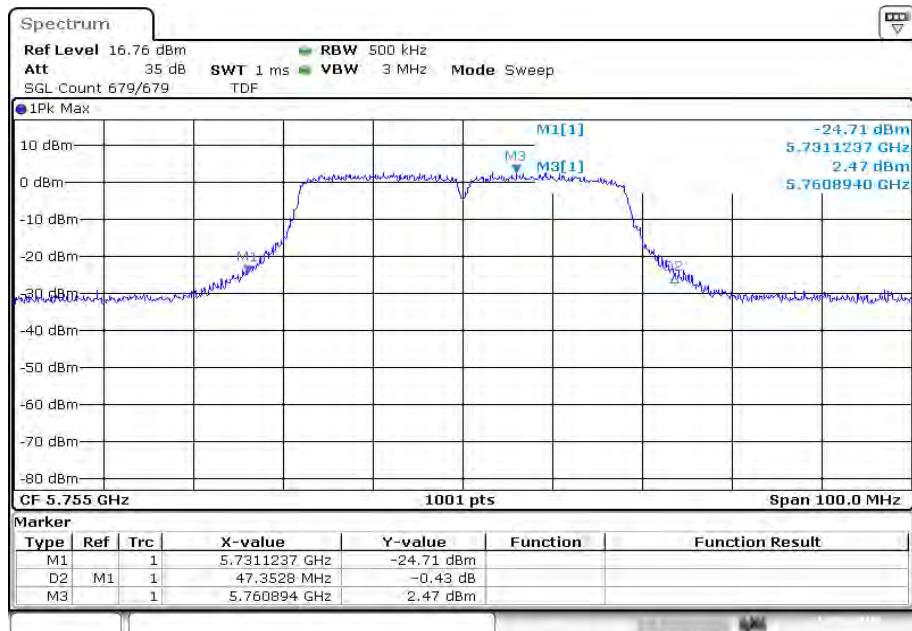
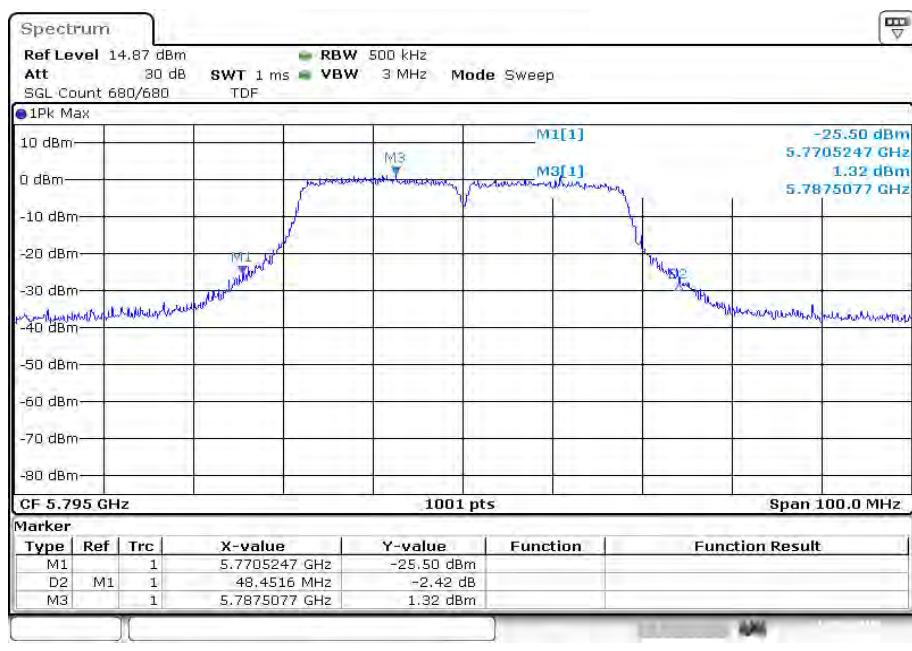
**Plot 2:** 5230 MHz



**Plot 3: 5270 MHz****Plot 4: 5310 MHz**

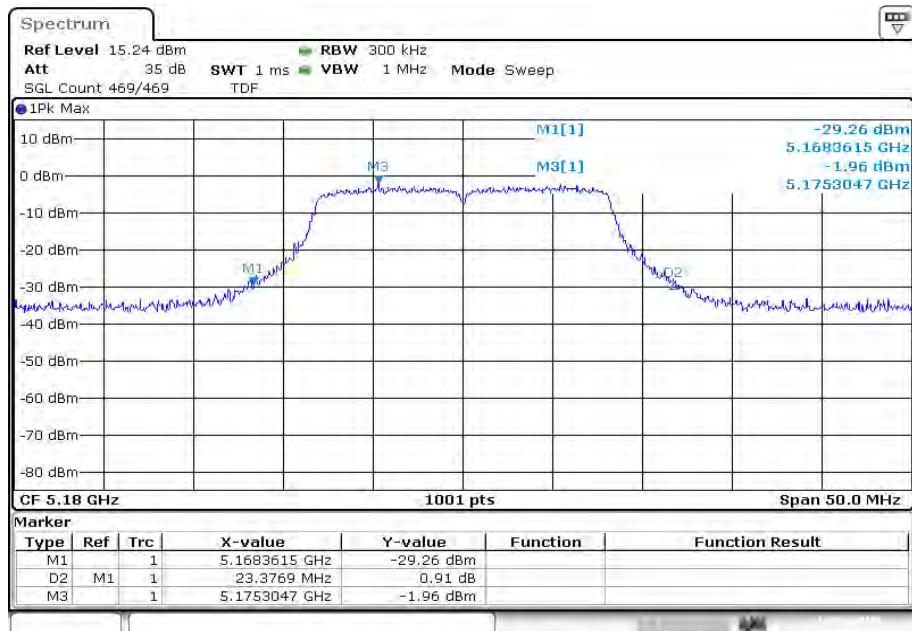
**Plot 5: 5510 MHz****Plot 6: 5550 MHz**

**Plot 7:** 5630 MHz**Plot 8:** 5670 MHz

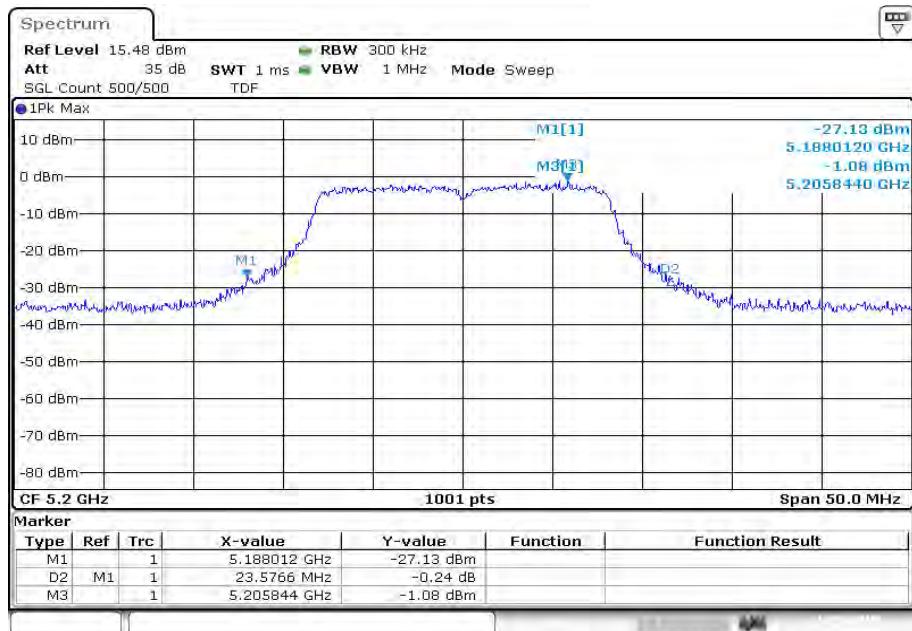
**Plot 9: 5755 MHz****Plot 10: 5795 MHz**

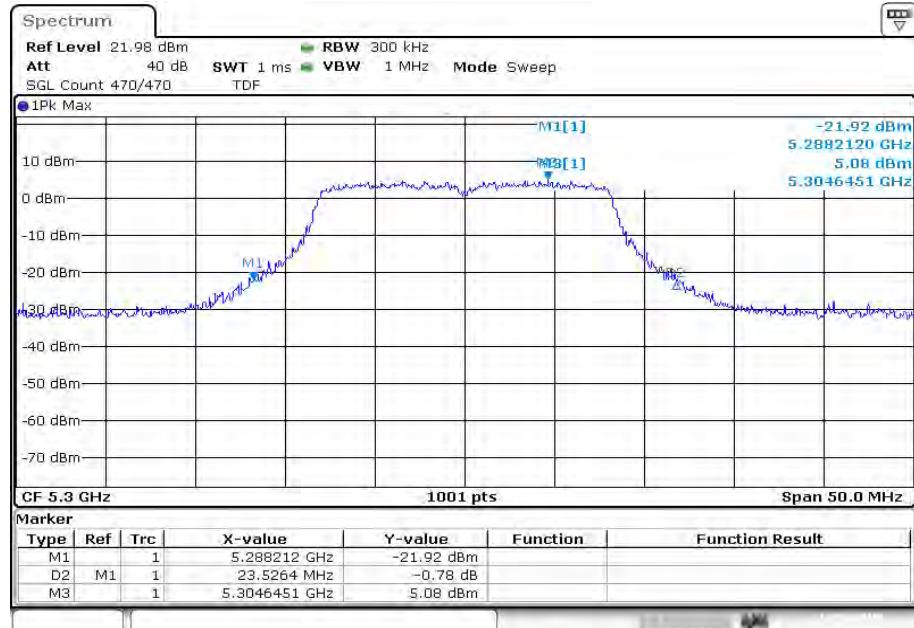
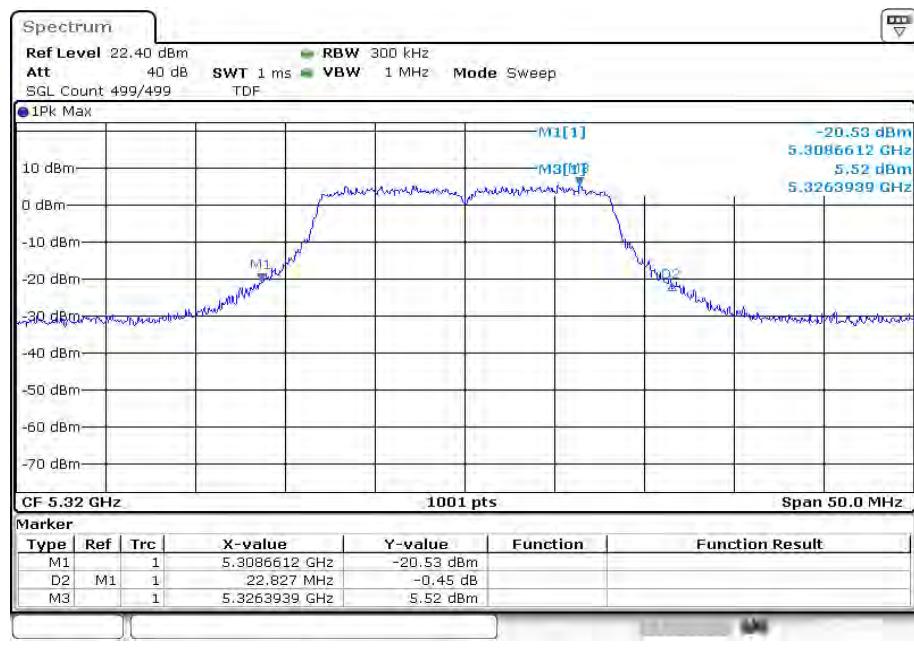
**Plots:** OFDM / a – mode, antenna port 2

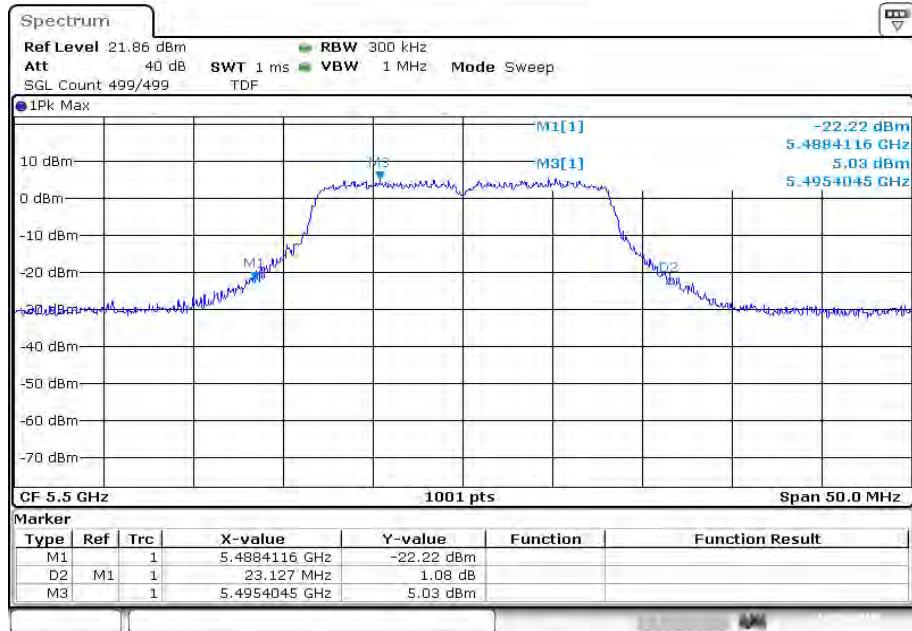
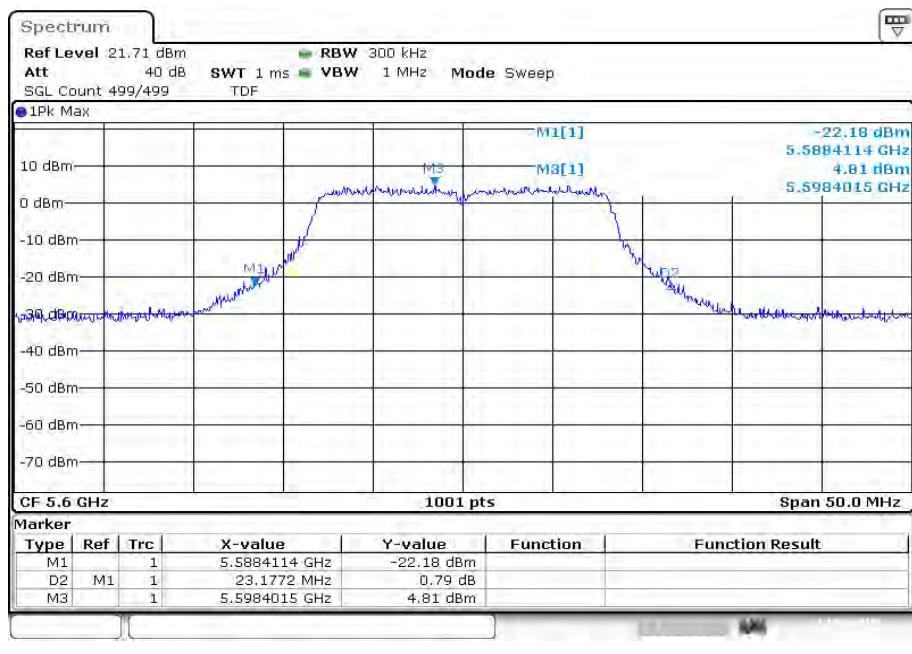
**Plot 1:** 5180 MHz

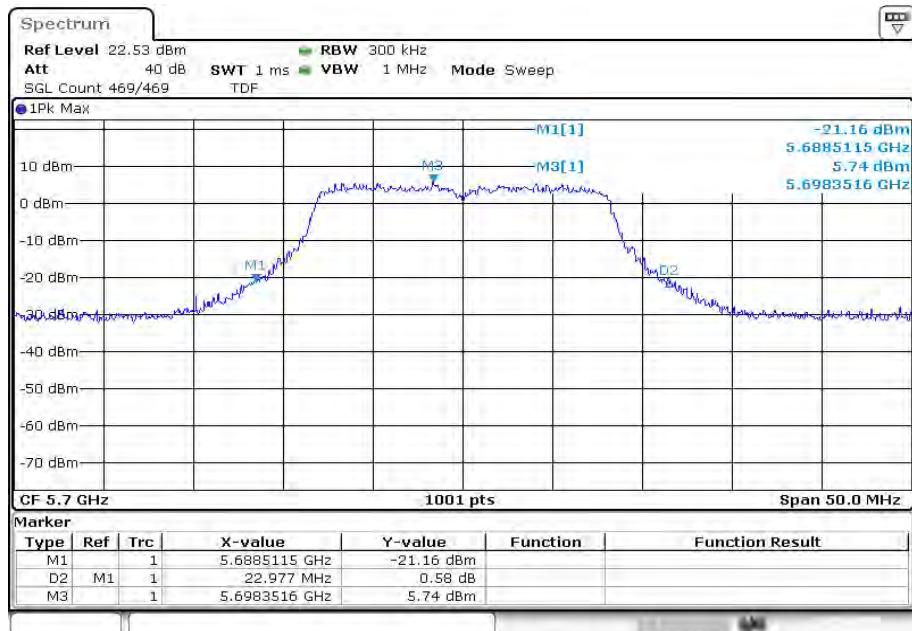
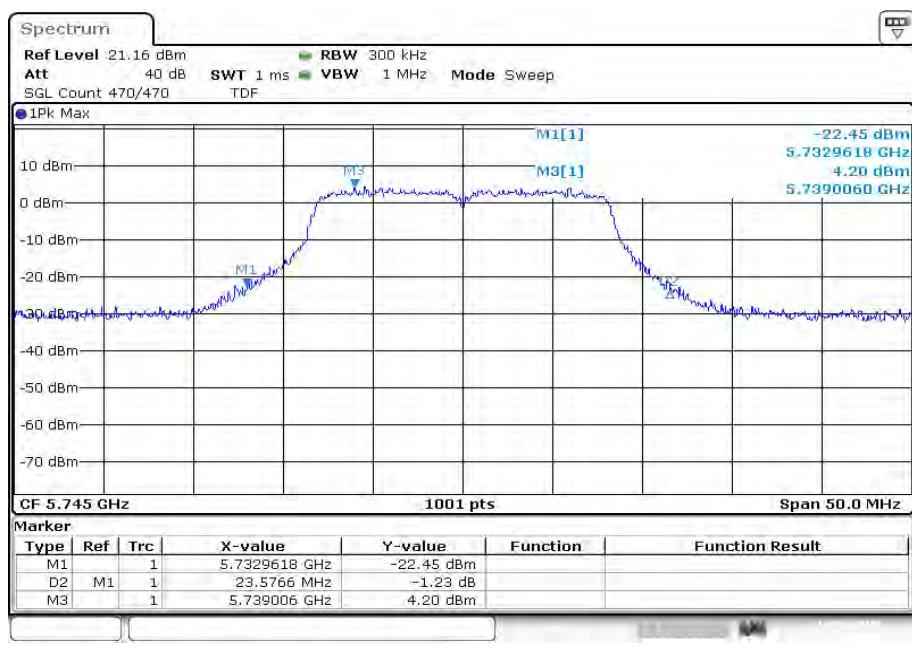


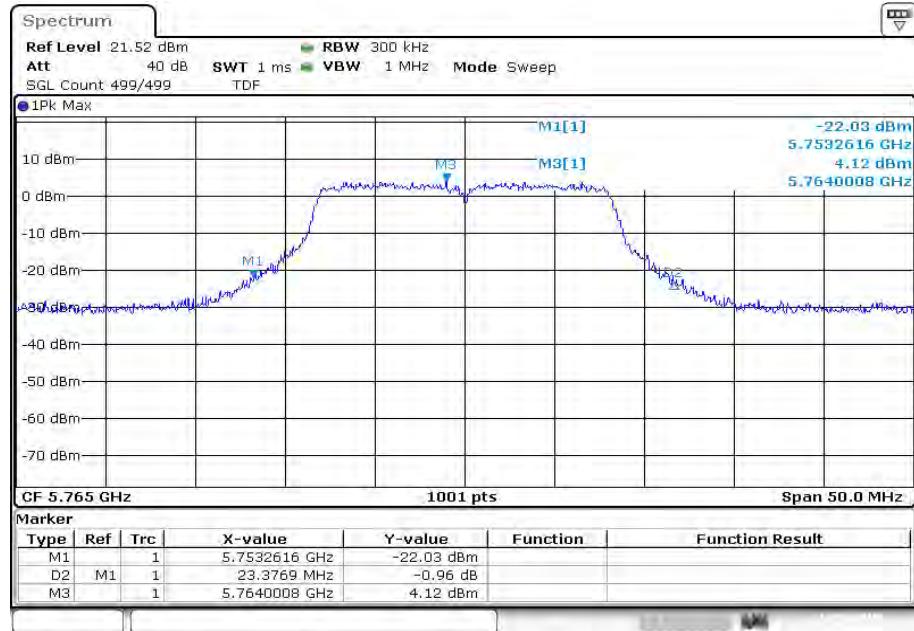
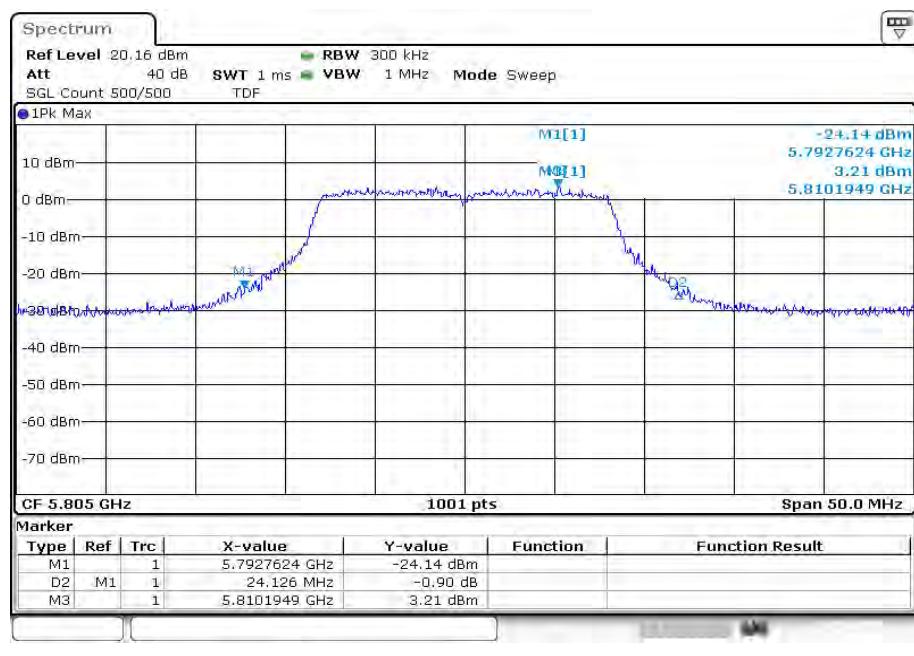
**Plot 2:** 5200 MHz

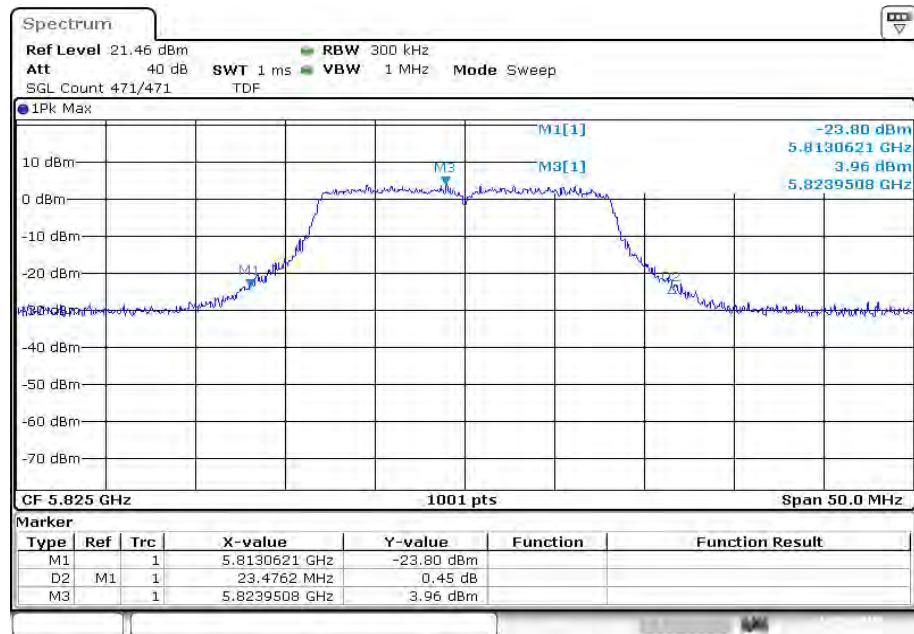


**Plot 3: 5300 MHz****Plot 4: 5320 MHz**

**Plot 5: 5500 MHz****Plot 6: 5600 MHz**

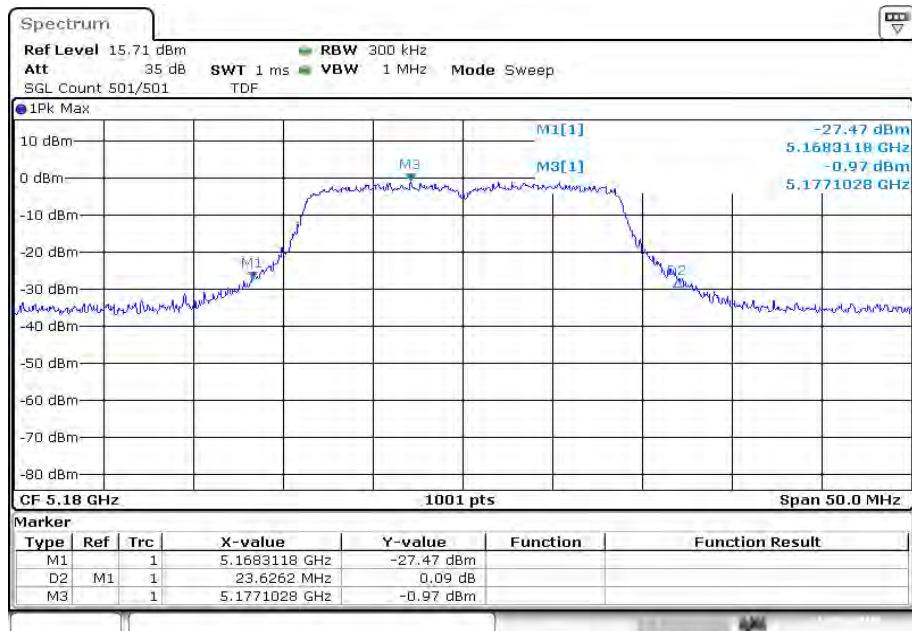
**Plot 7:** 5700 MHz**Plot 8:** 5745 MHz

**Plot 9: 5765 MHz****Plot 10: 5805 MHz**

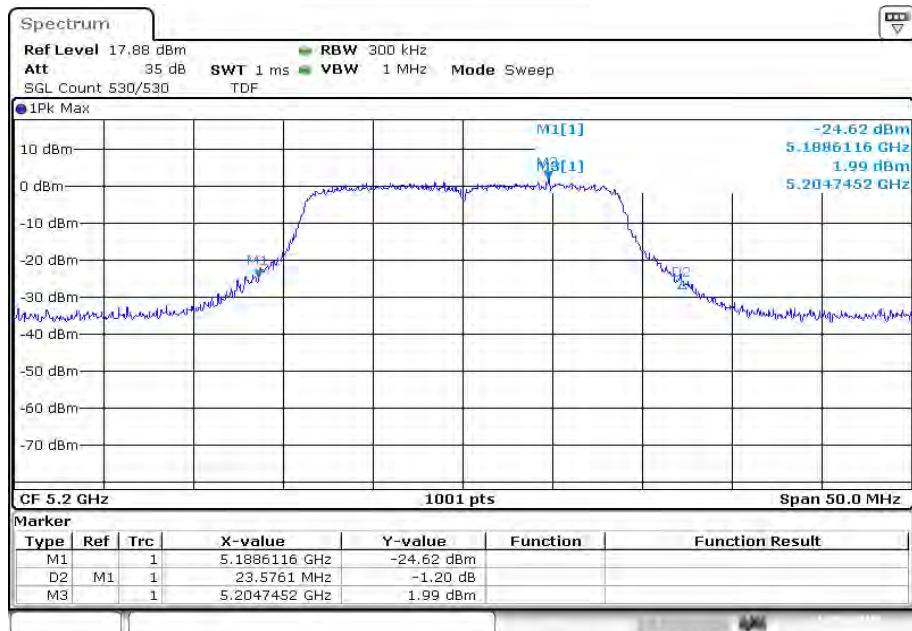
**Plot 11: 5825 MHz**

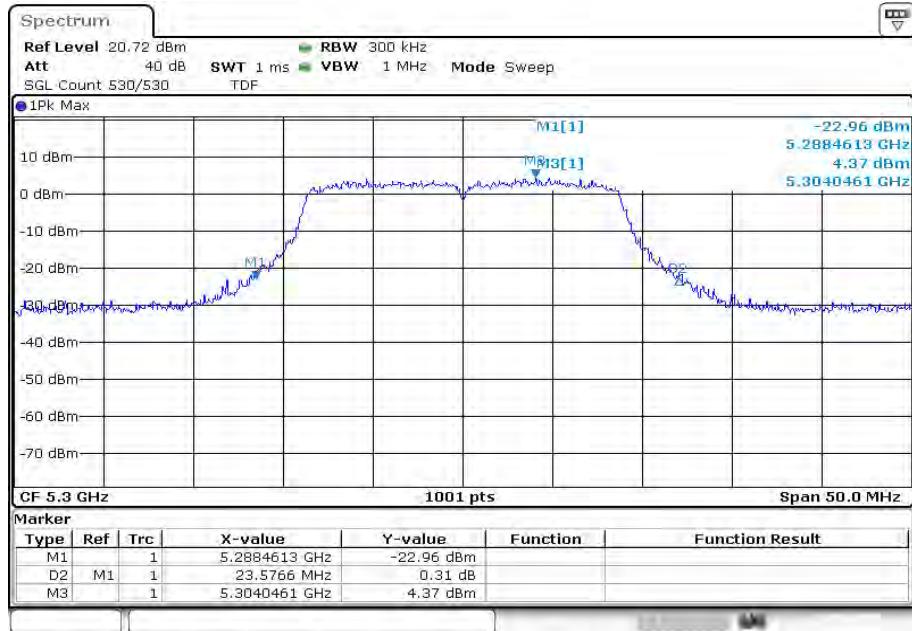
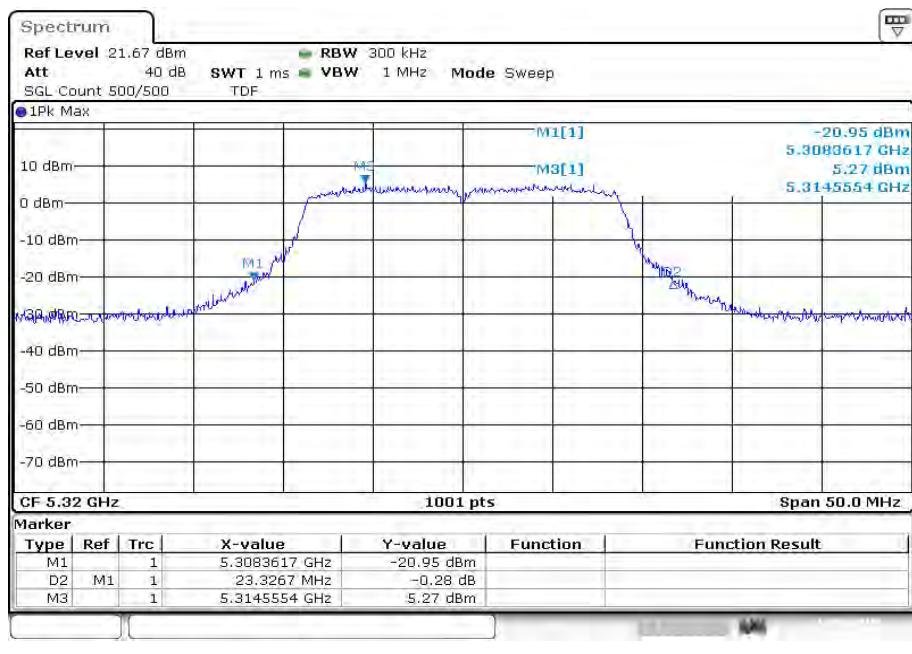
**Plots:** OFDM / n HT20 – mode, antenna port 2

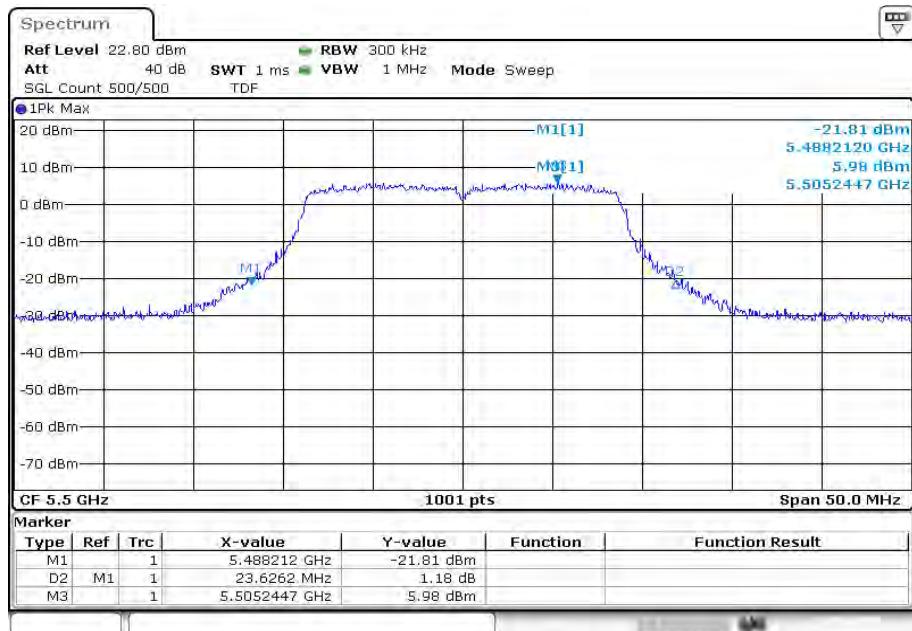
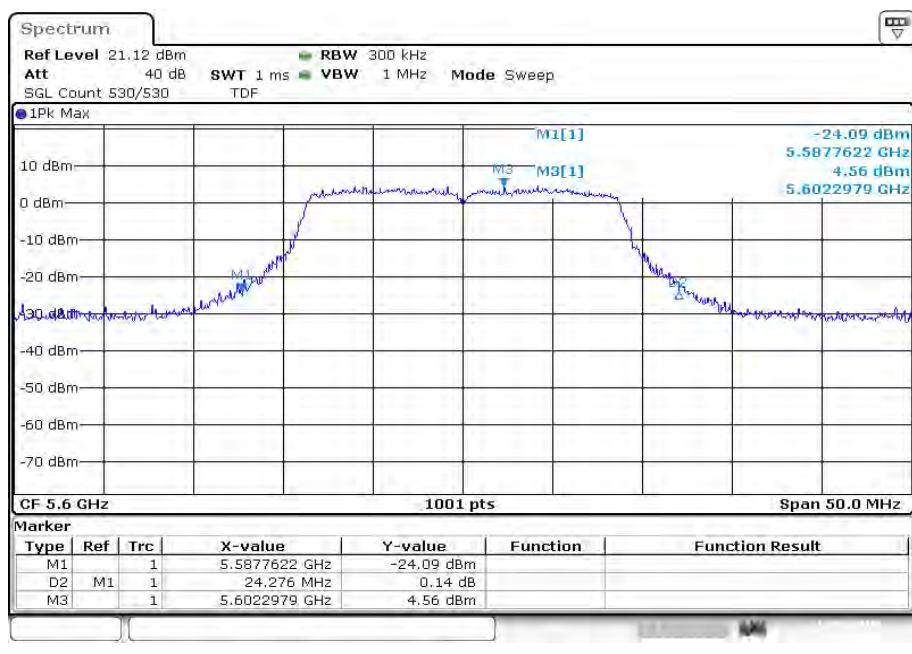
**Plot 1:** 5180 MHz

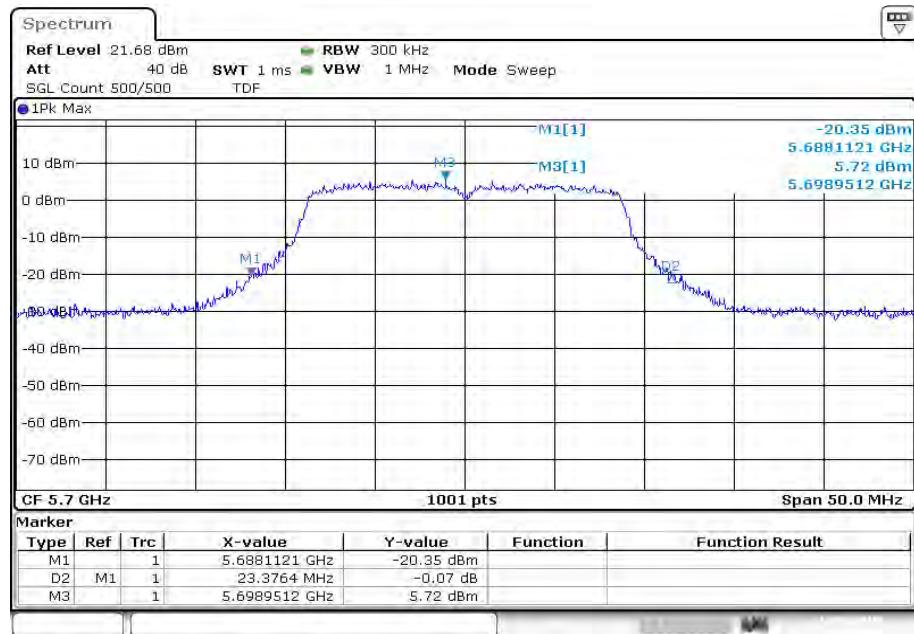
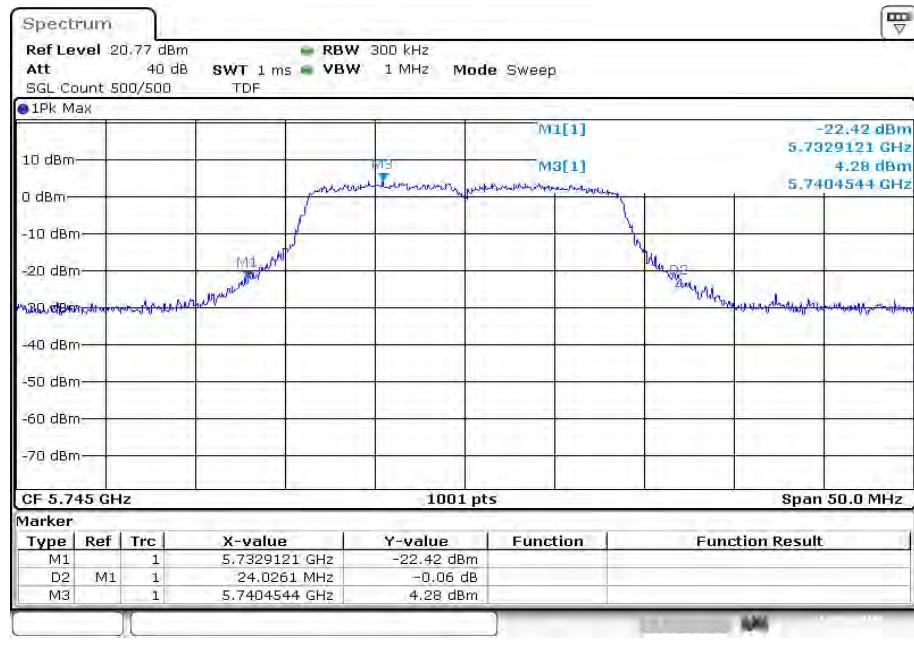


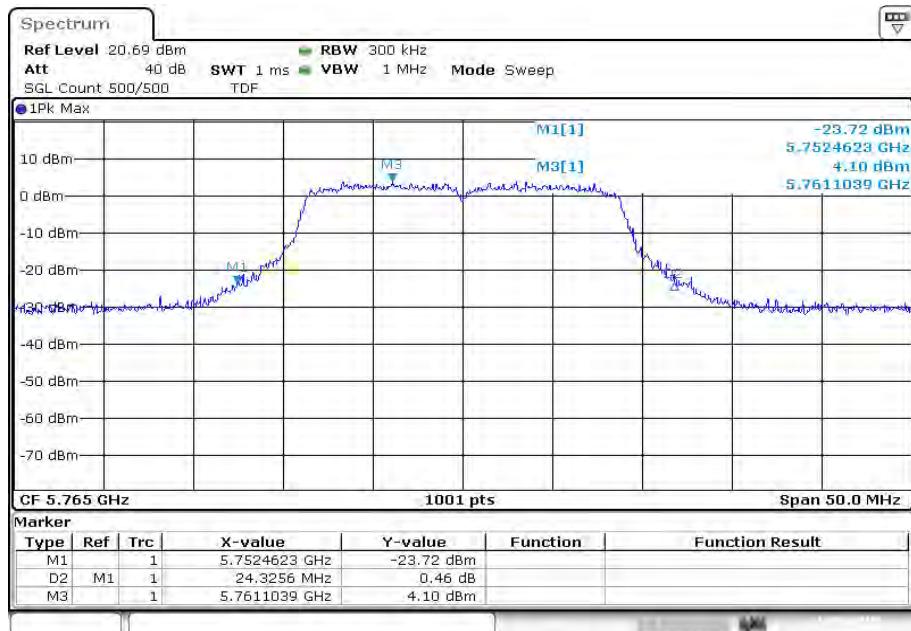
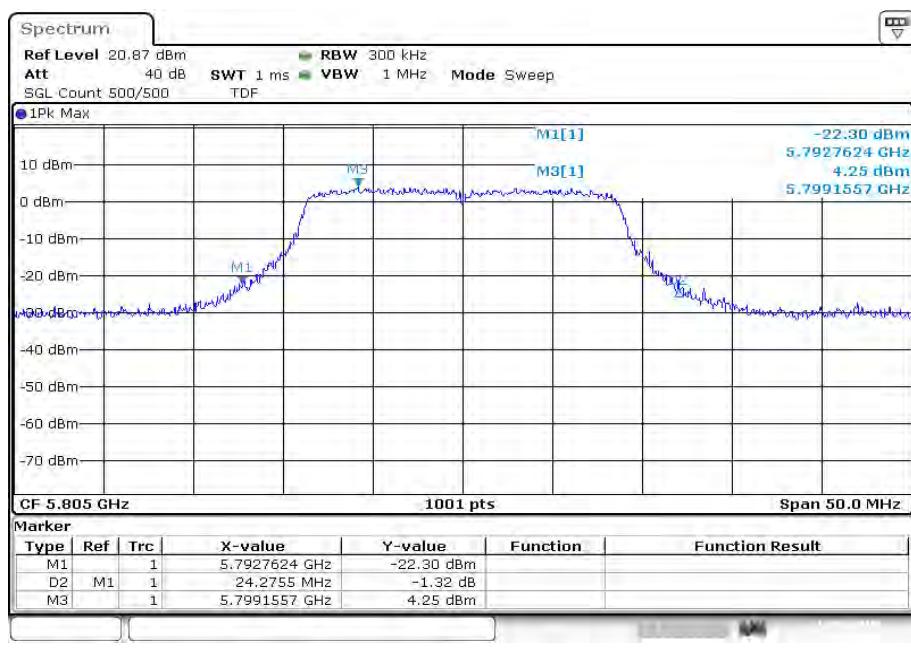
**Plot 2:** 5200 MHz

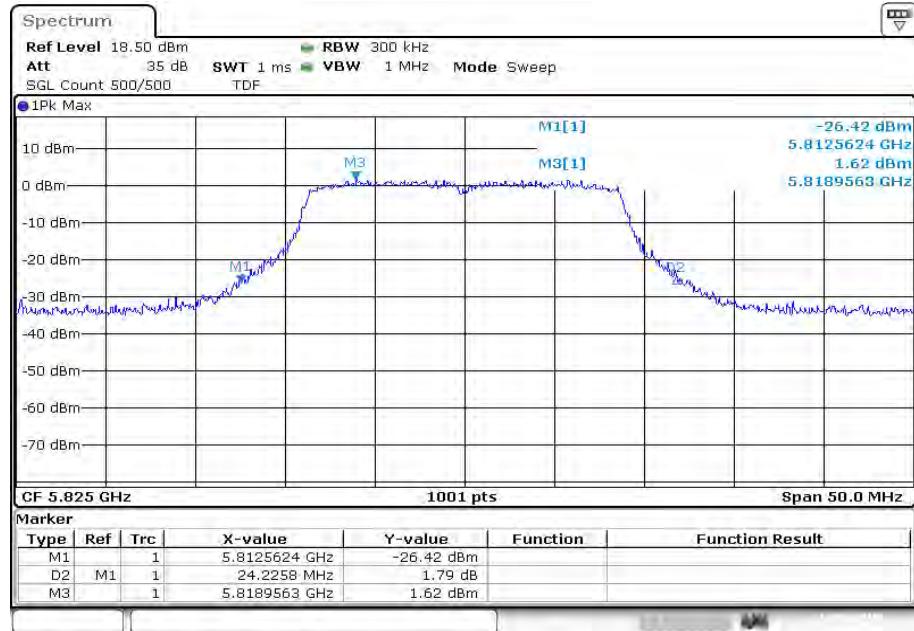


**Plot 3: 5300 MHz****Plot 4: 5320 MHz**

**Plot 5: 5500 MHz****Plot 6: 5600 MHz**

**Plot 7:** 5700 MHz**Plot 8:** 5745 MHz

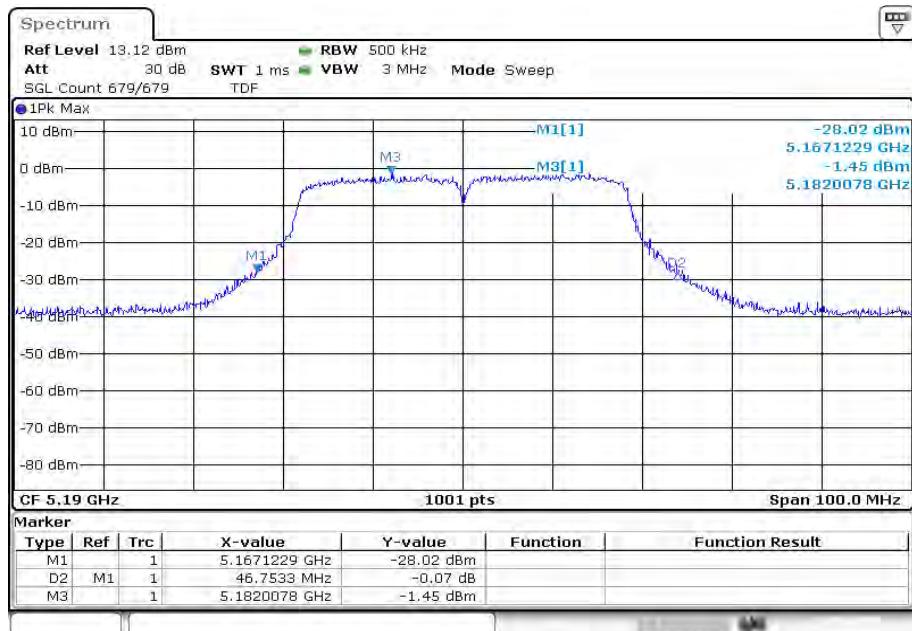
**Plot 9: 5765 MHz****Plot 10: 5805 MHz**

**Plot 11:** 5825 MHz

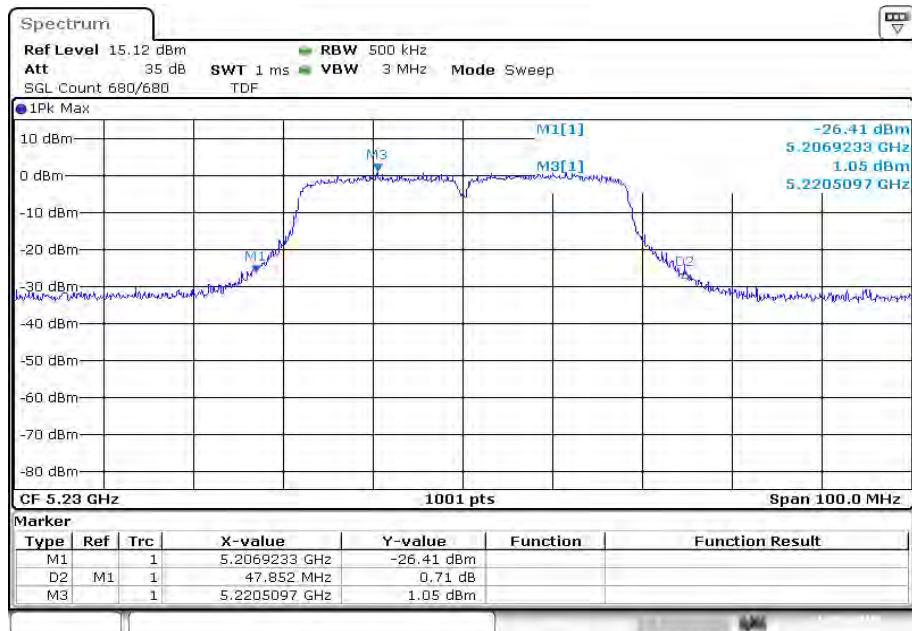
Date: 12.APR.2016 16:56:55

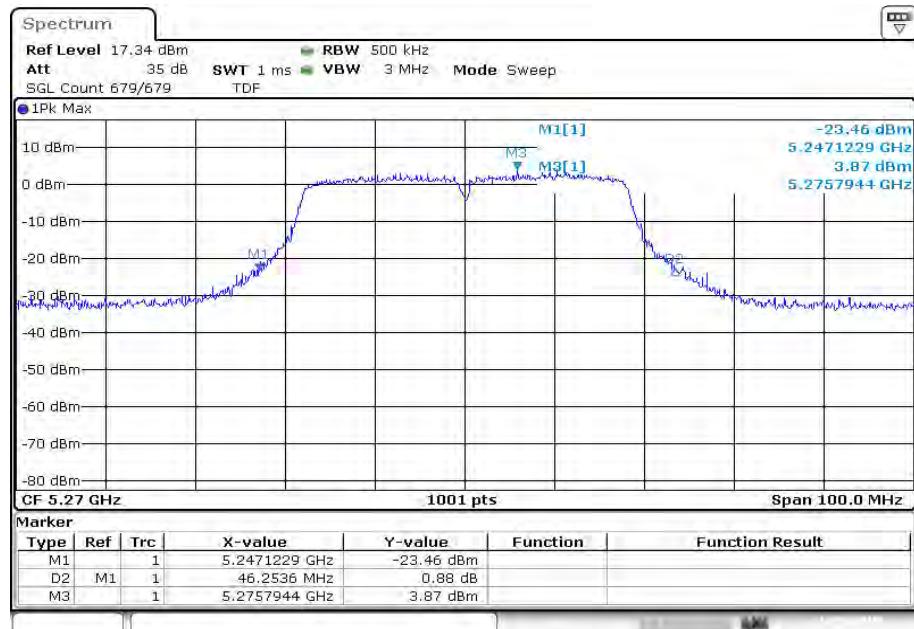
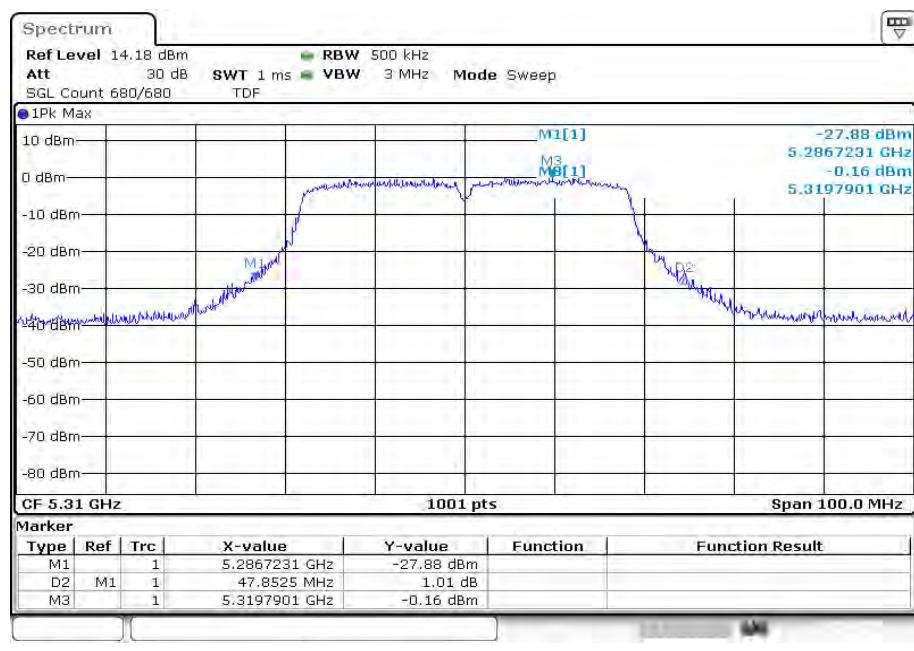
**Plots:** OFDM / n HT40 – mode, antenna port 2

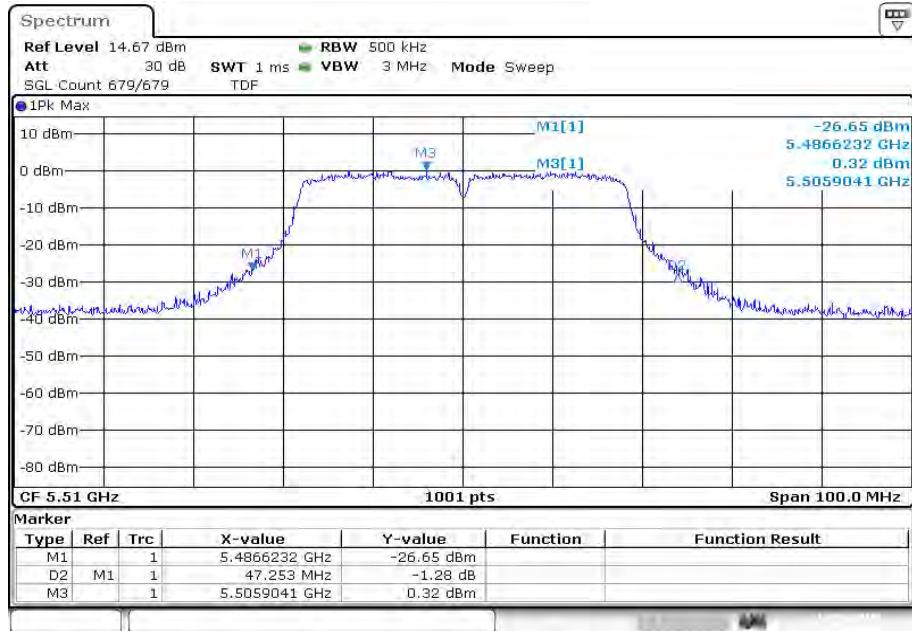
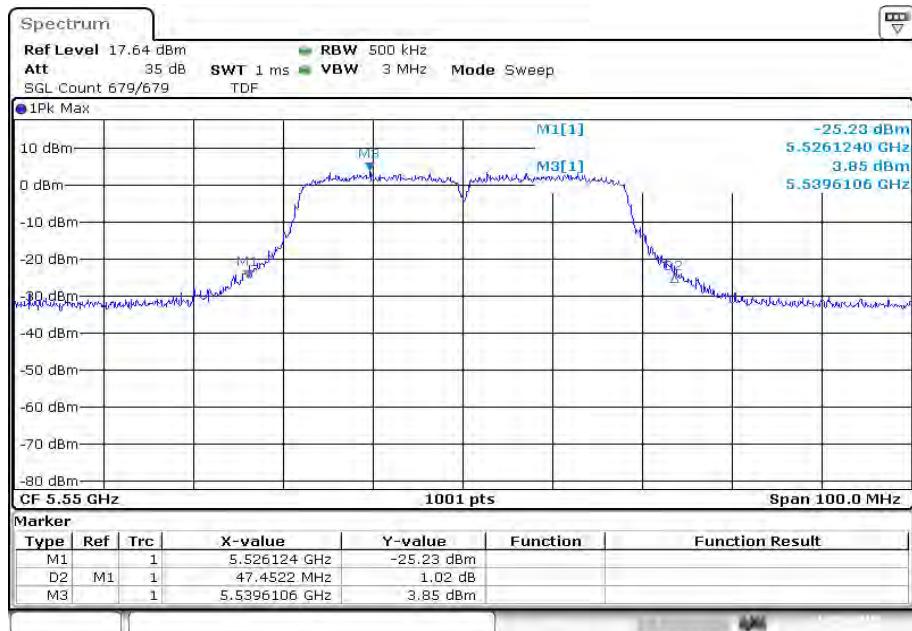
**Plot 1:** 5190 MHz

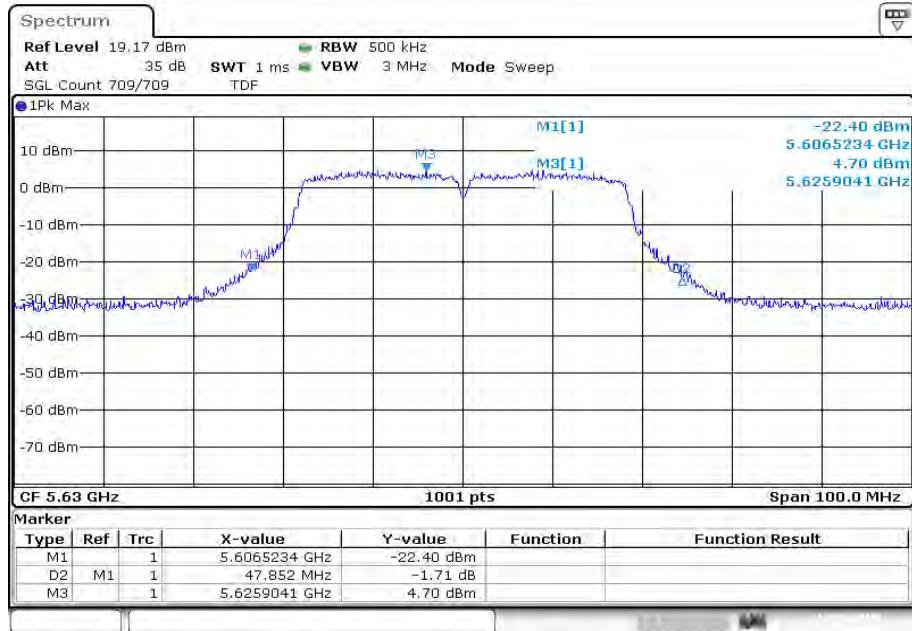
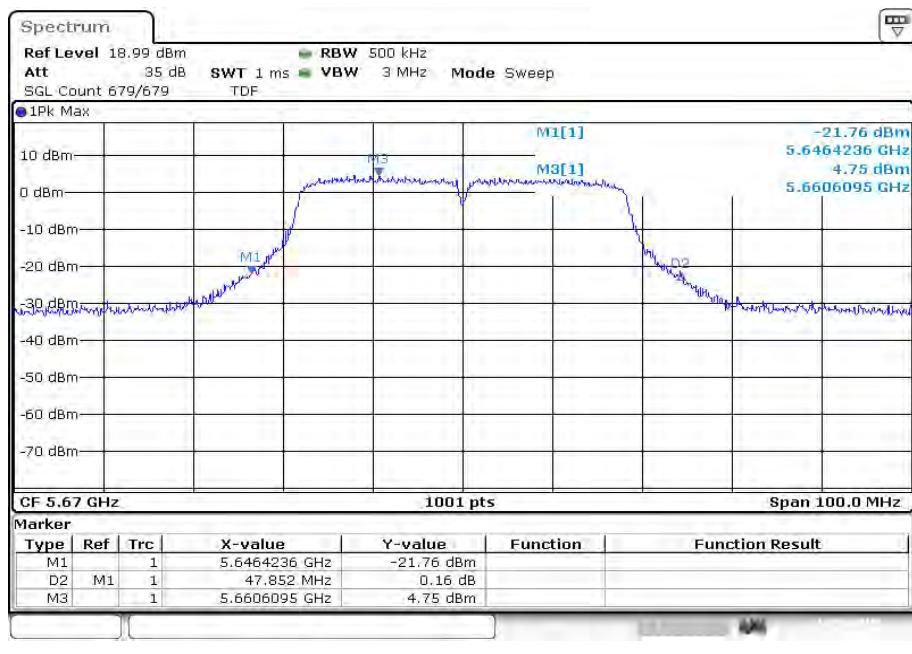


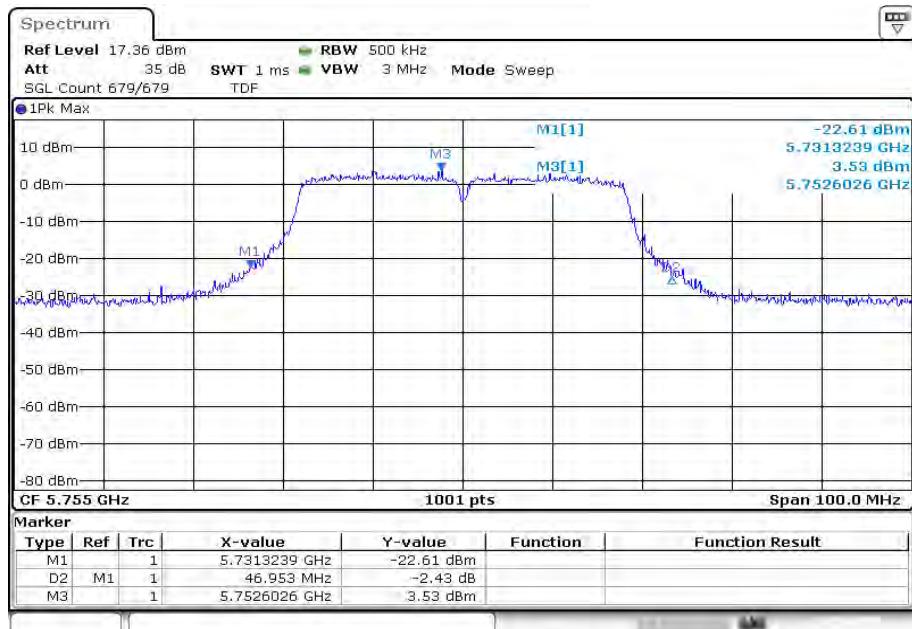
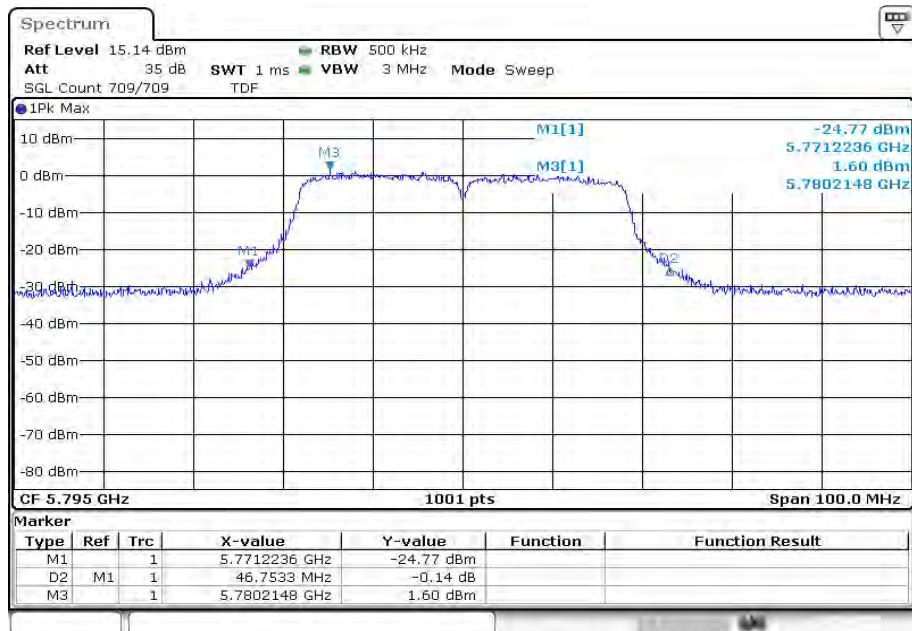
**Plot 2:** 5230 MHz



**Plot 3: 5270 MHz****Plot 4: 5310 MHz**

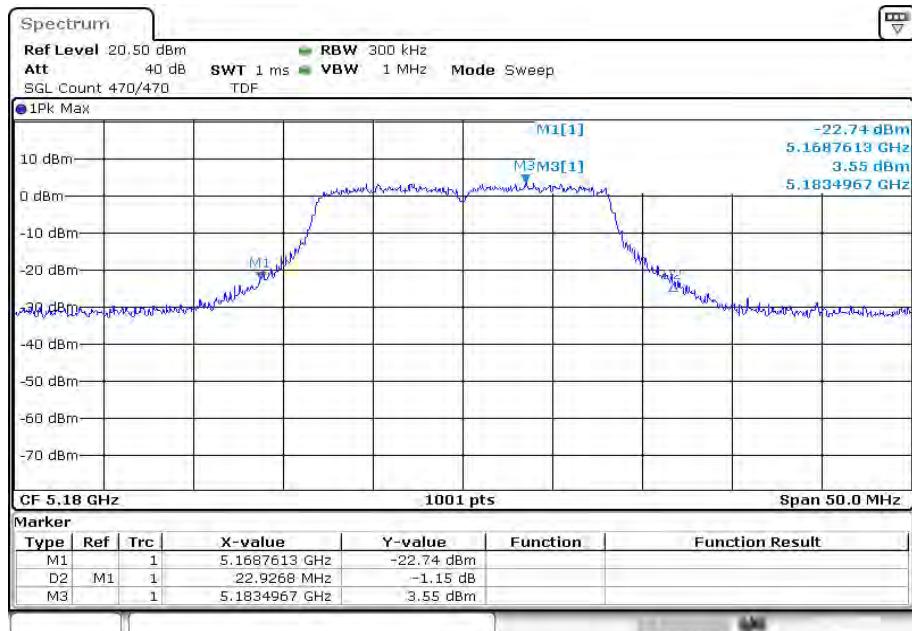
**Plot 5:** 5510 MHz**Plot 6:** 5550 MHz

**Plot 7:** 5630 MHz**Plot 8:** 5670 MHz

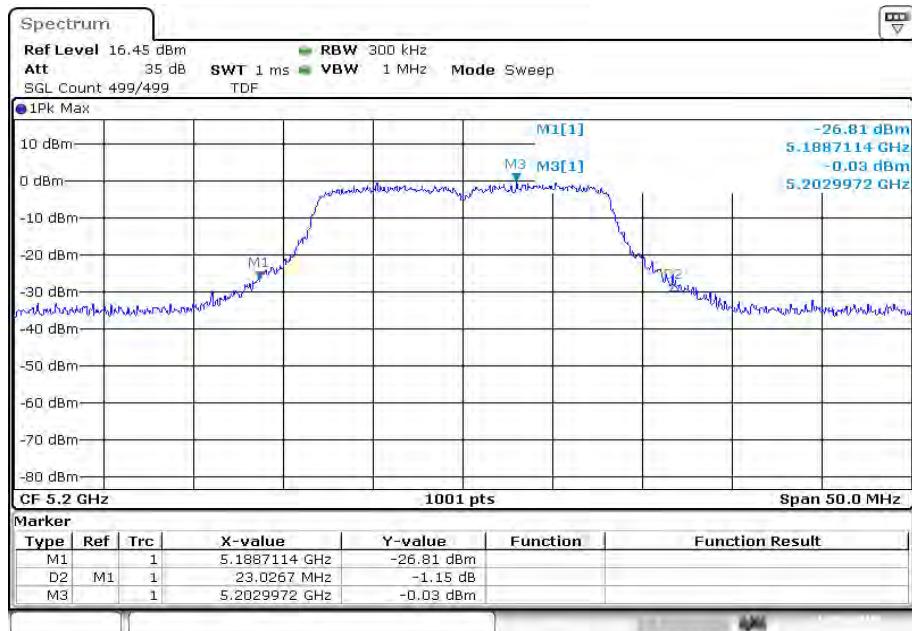
**Plot 9: 5755 MHz****Plot 10: 5795 MHz**

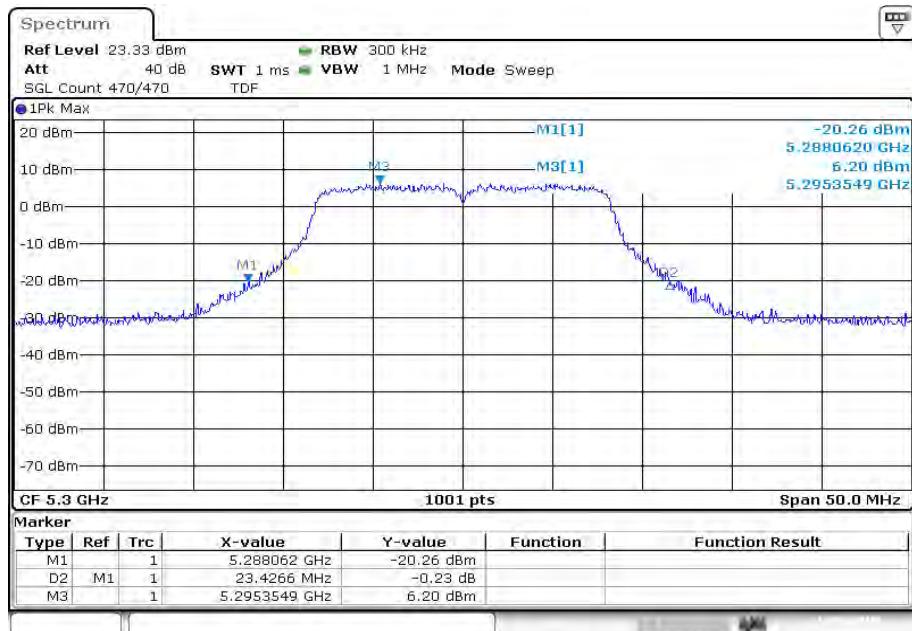
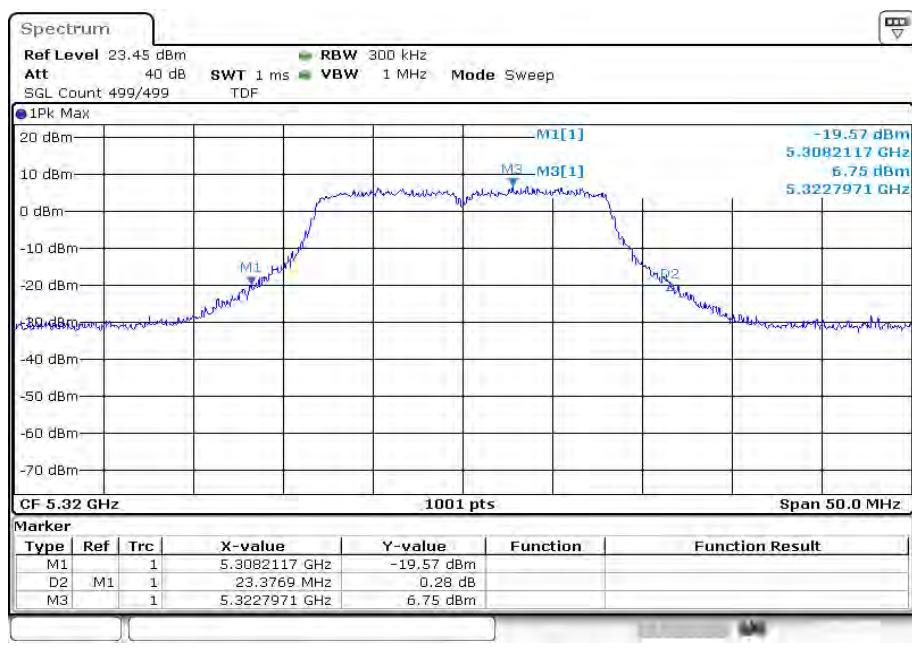
**Plots:** OFDM / a – mode, antenna port 3

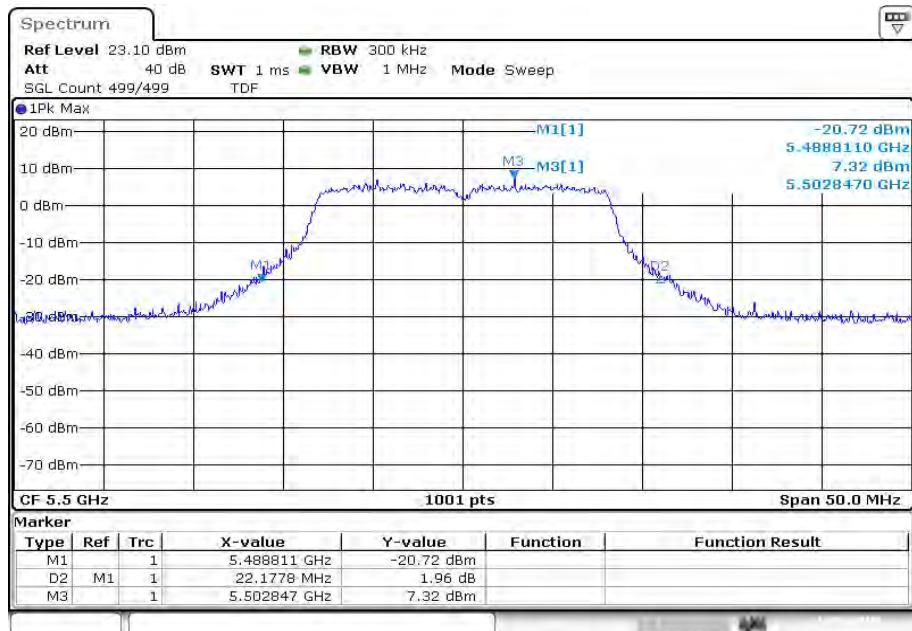
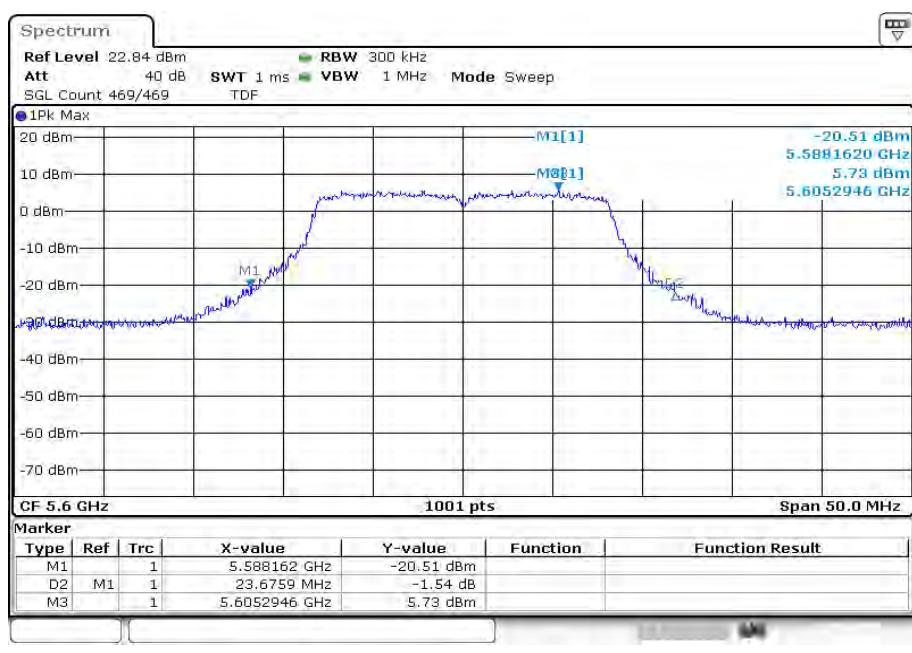
**Plot 1:** 5180 MHz

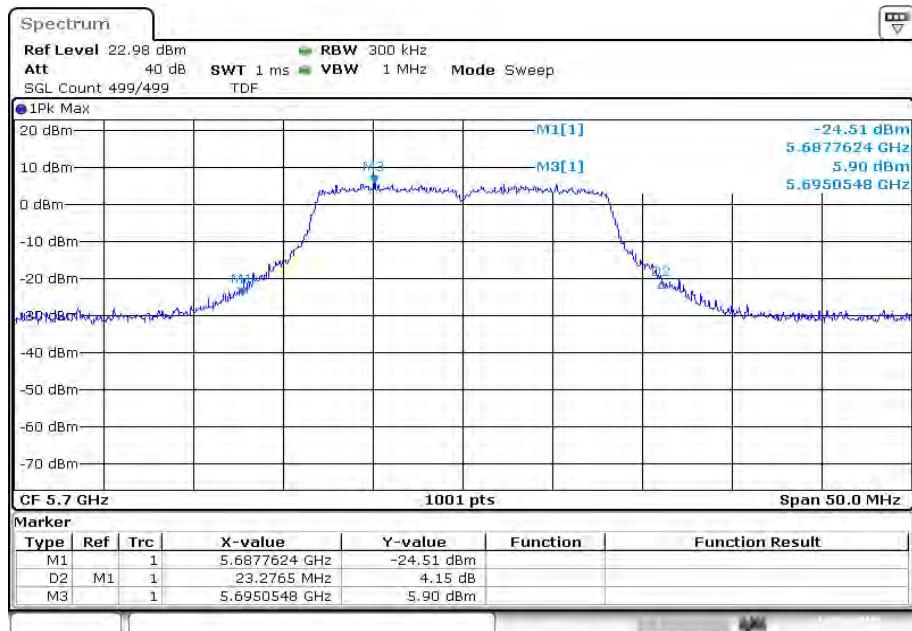
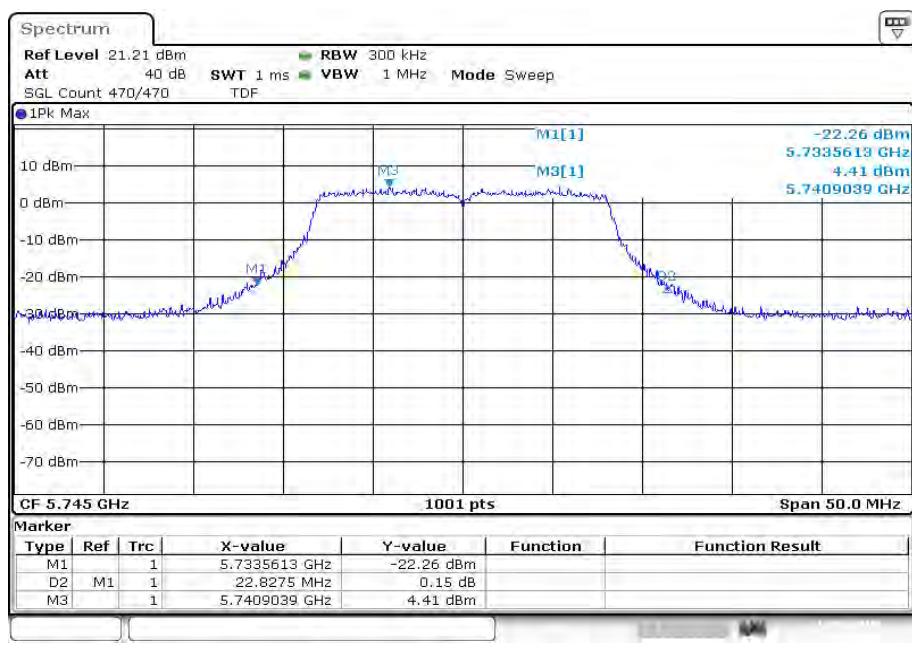


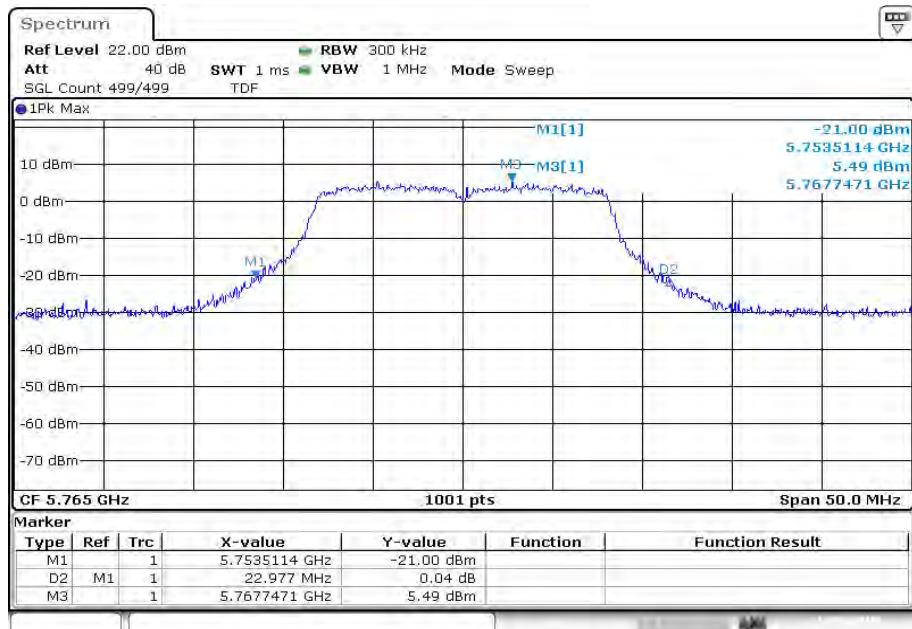
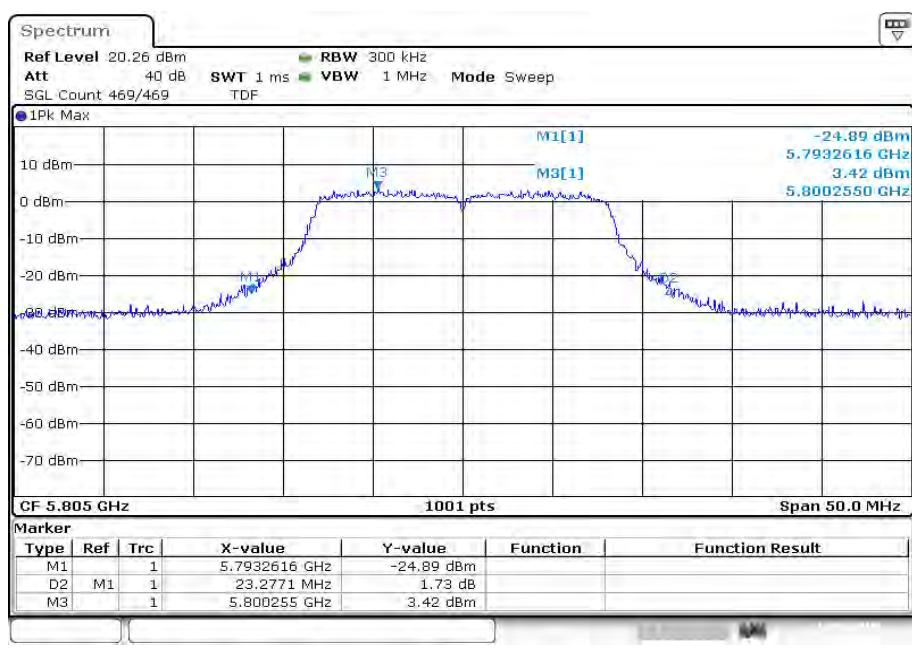
**Plot 2:** 5200 MHz

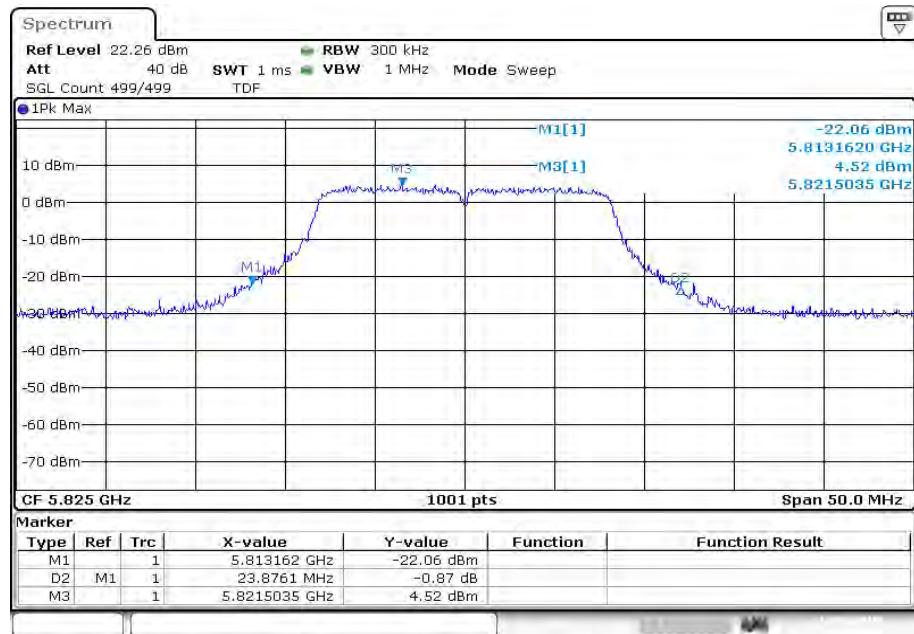


**Plot 3:** 5300 MHz**Plot 4:** 5320 MHz

**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

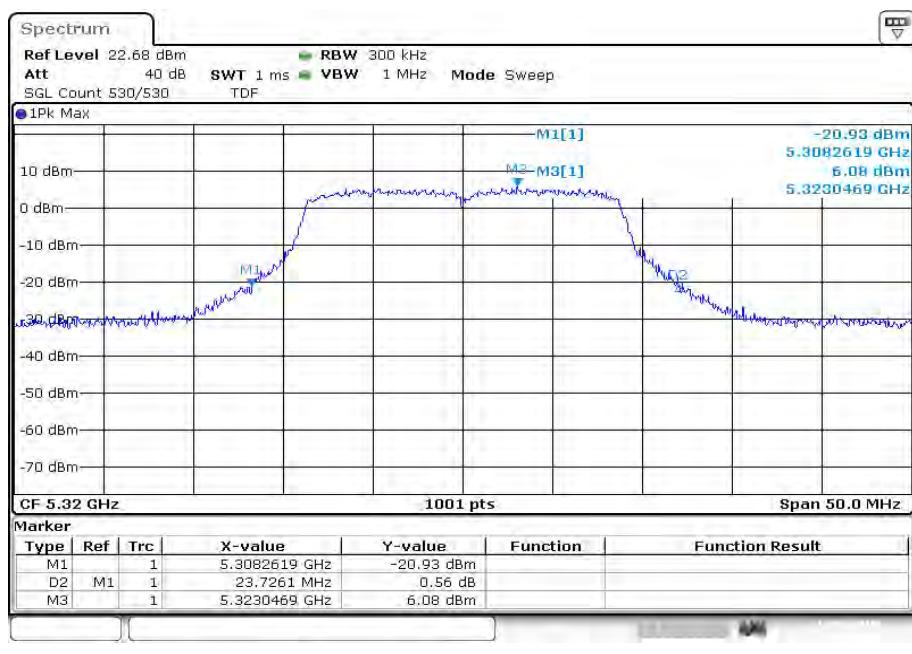
**Plots:** OFDM / n HT20 – mode, antenna port 3

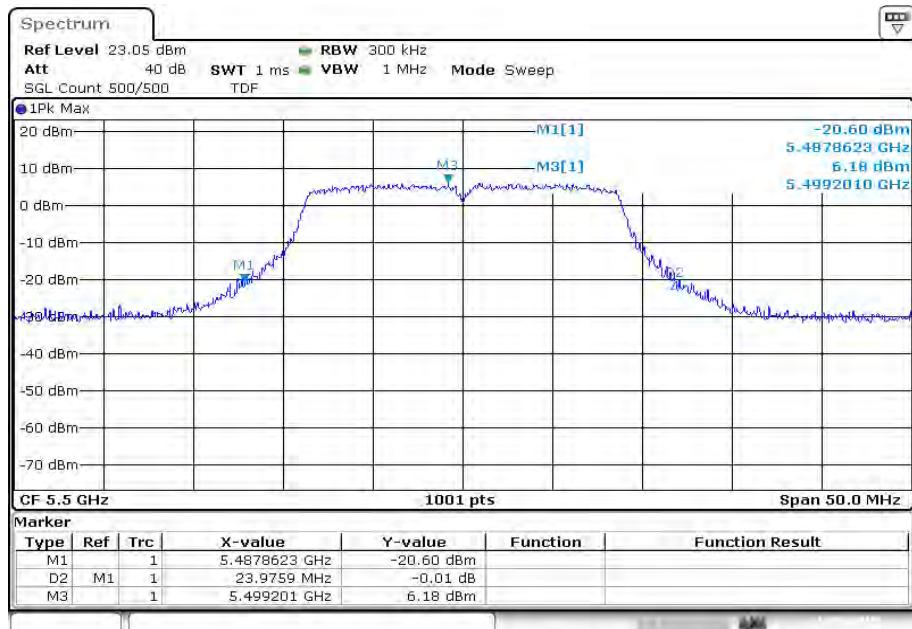
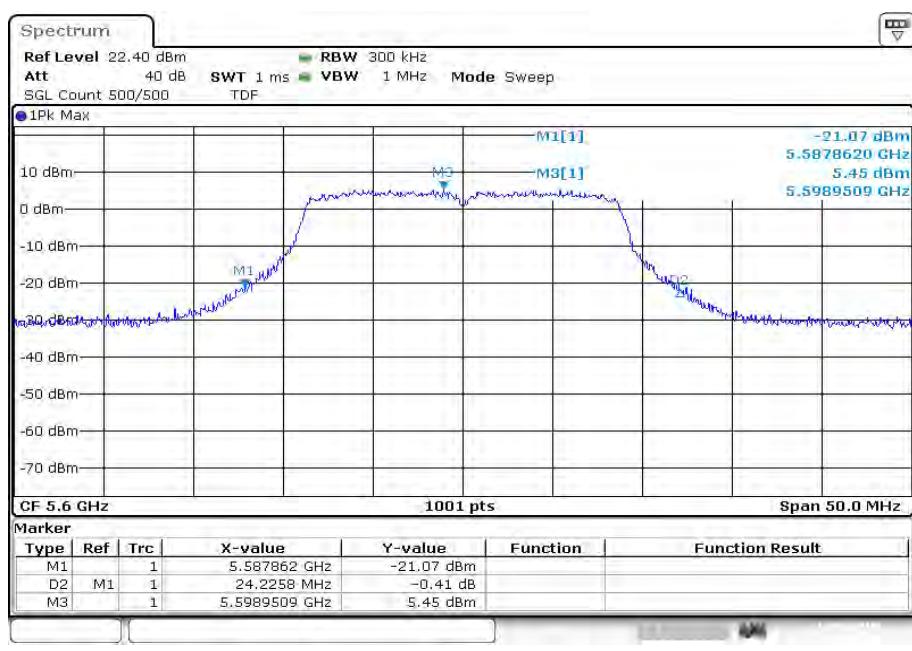
**Plot 1:** 5180 MHz

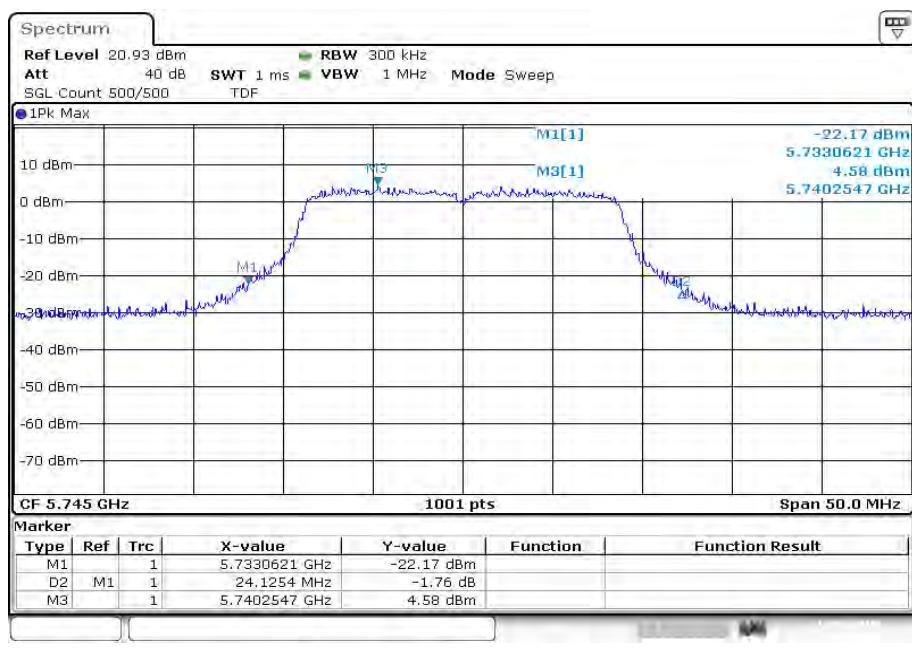


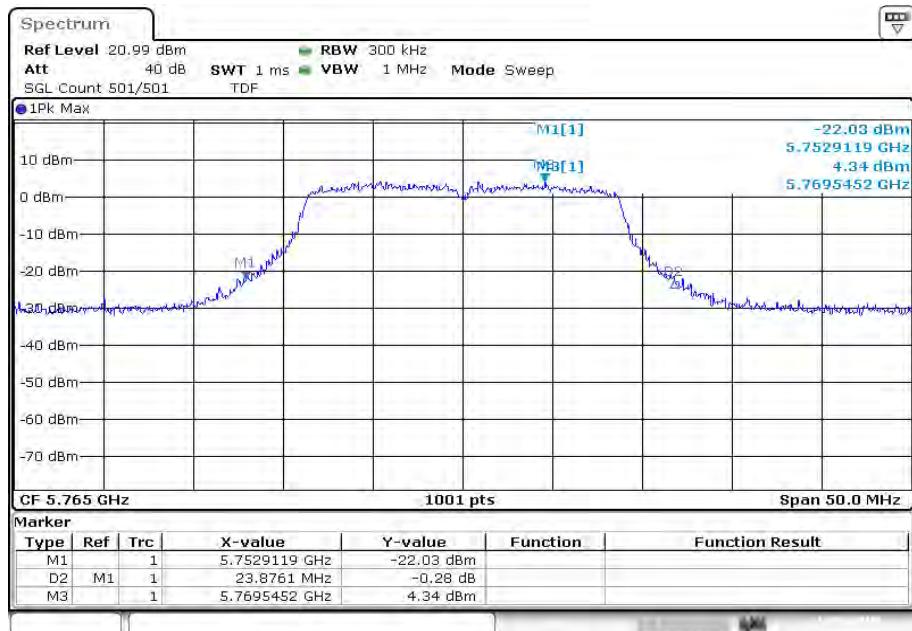
**Plot 2:** 5200 MHz



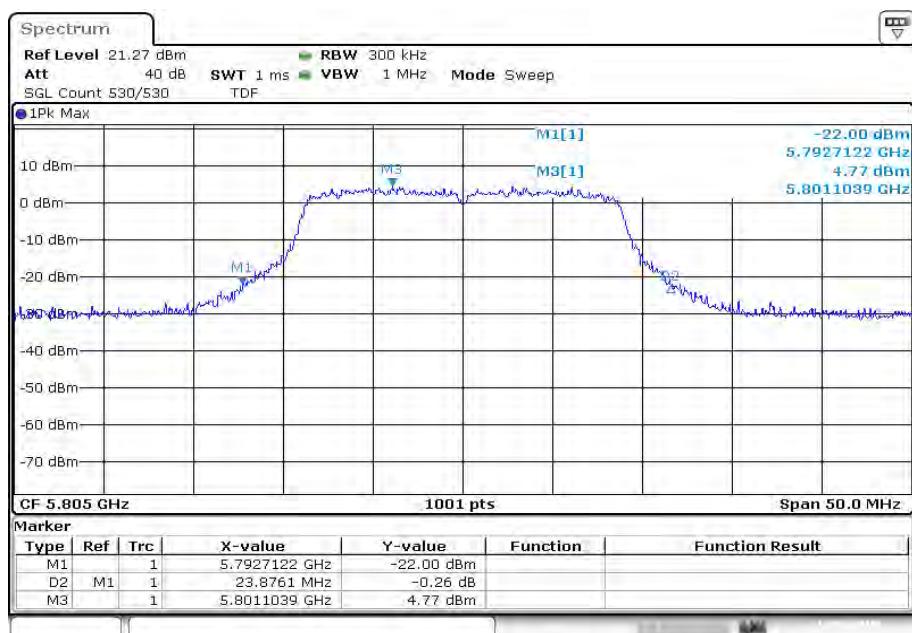
**Plot 3: 5300 MHz****Plot 4: 5320 MHz**

**Plot 5: 5500 MHz****Plot 6: 5600 MHz**

**Plot 7:** 5700 MHz**Plot 8:** 5745 MHz

**Plot 9: 5765 MHz**

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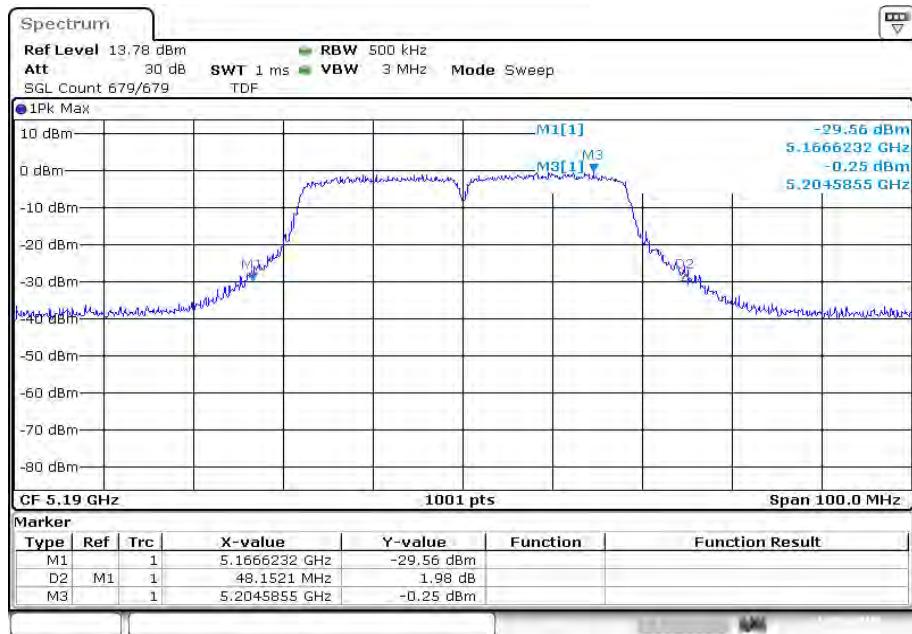
**Plot 10: 5805 MHz**

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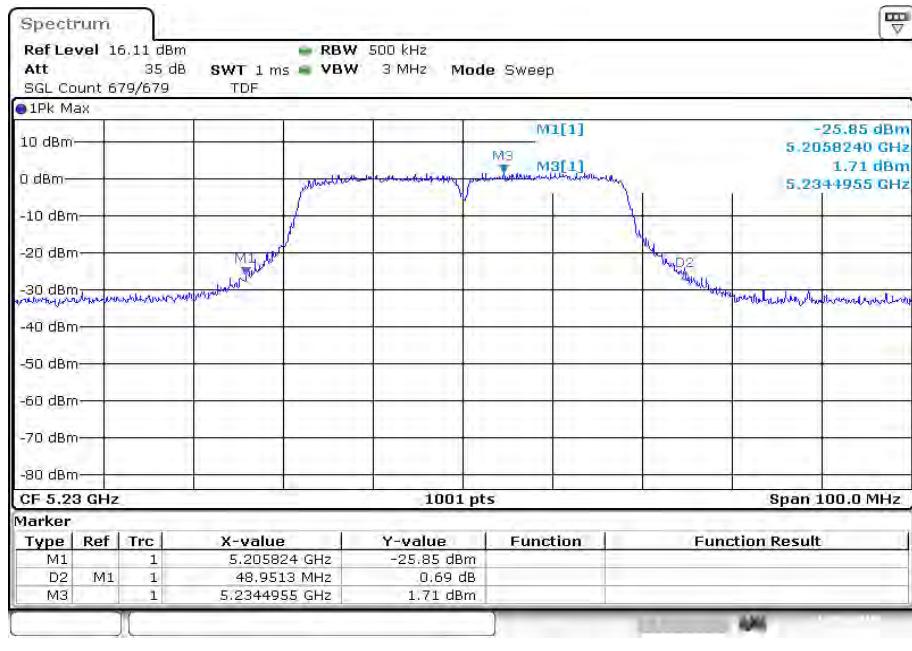
**Plot 11: 5825 MHz**

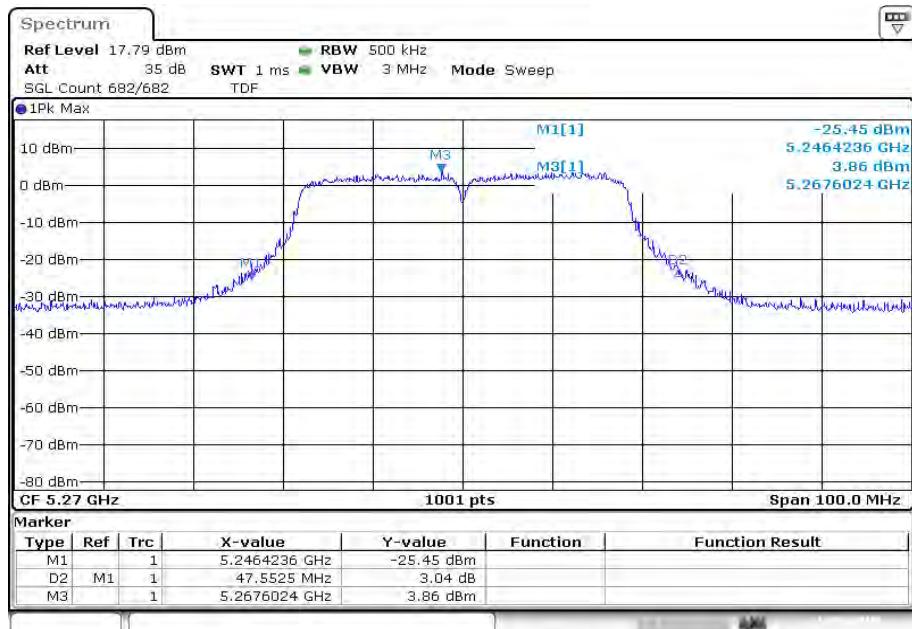
**Plots:** OFDM / n HT40 – mode, antenna port 3

**Plot 1:** 5190 MHz



**Plot 2:** 5230 MHz

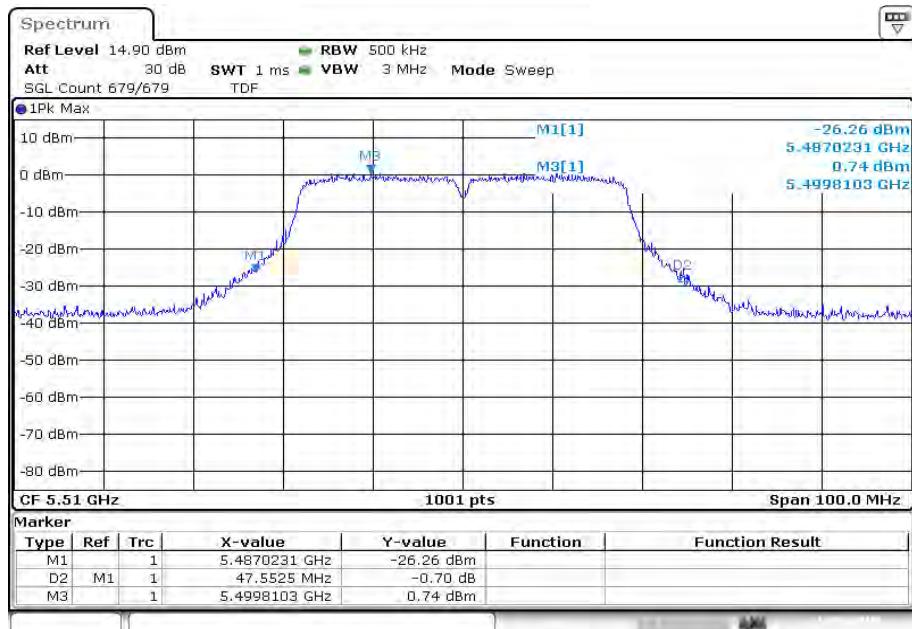
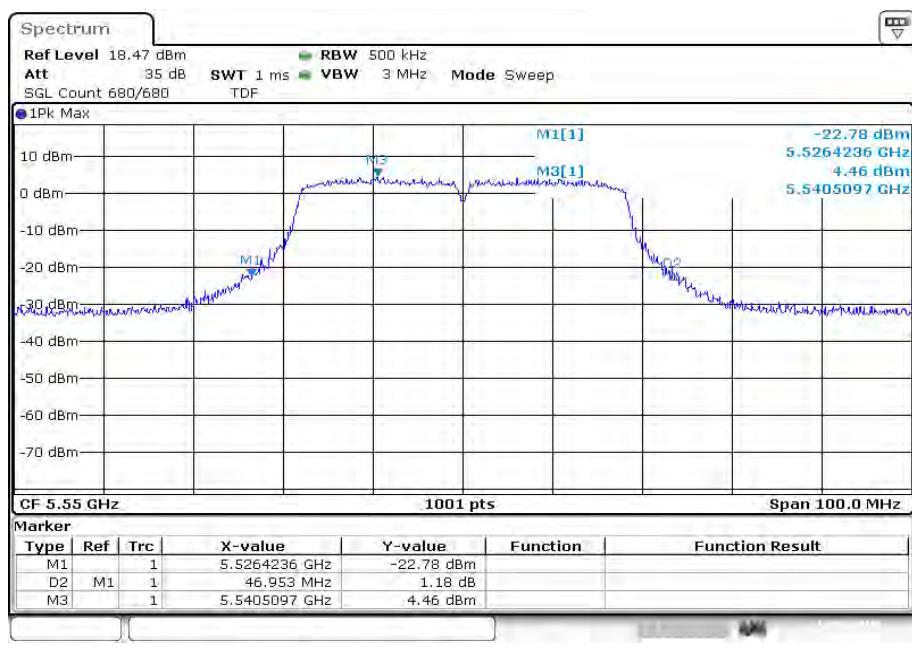


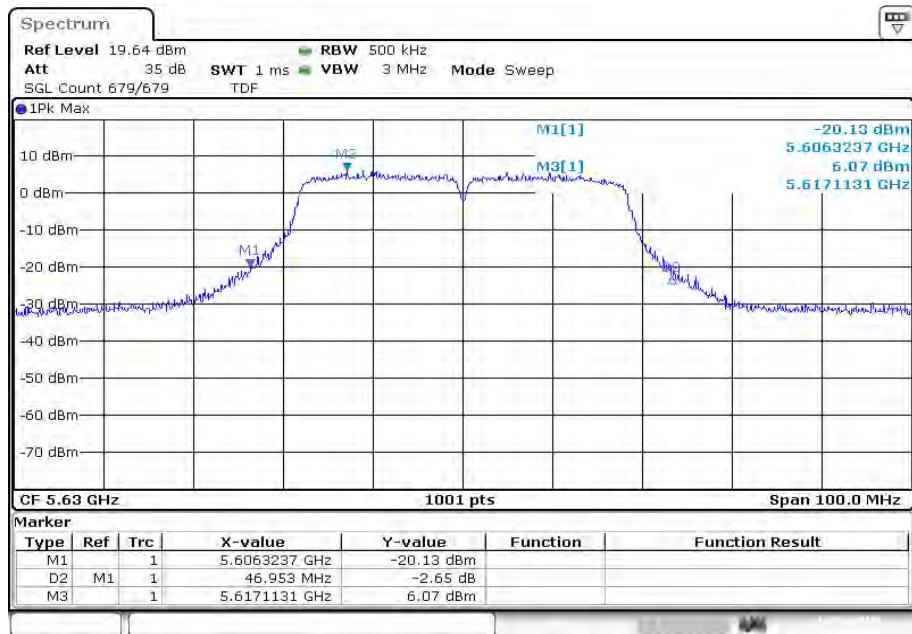
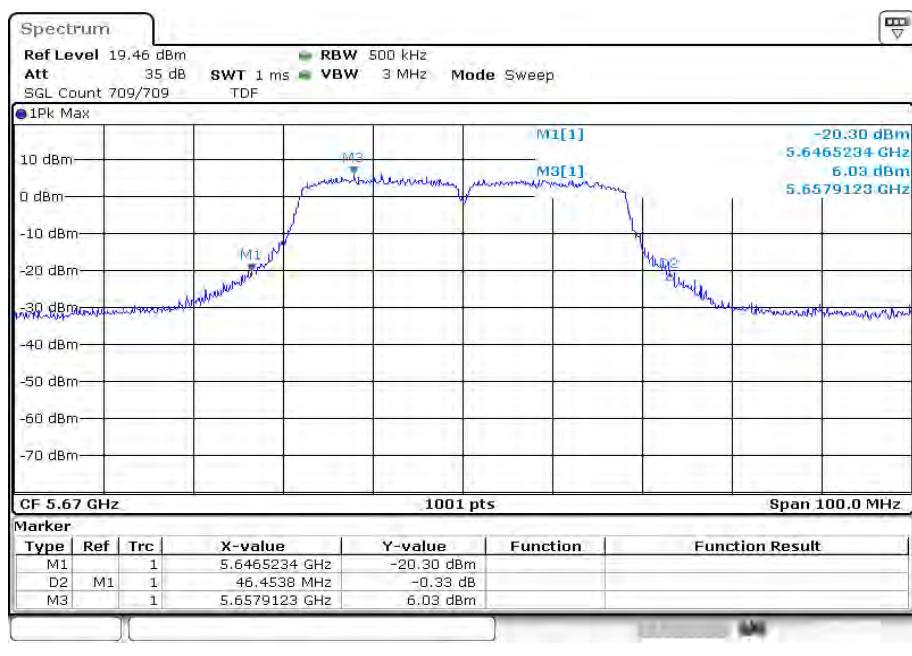
**Plot 3: 5270 MHz**

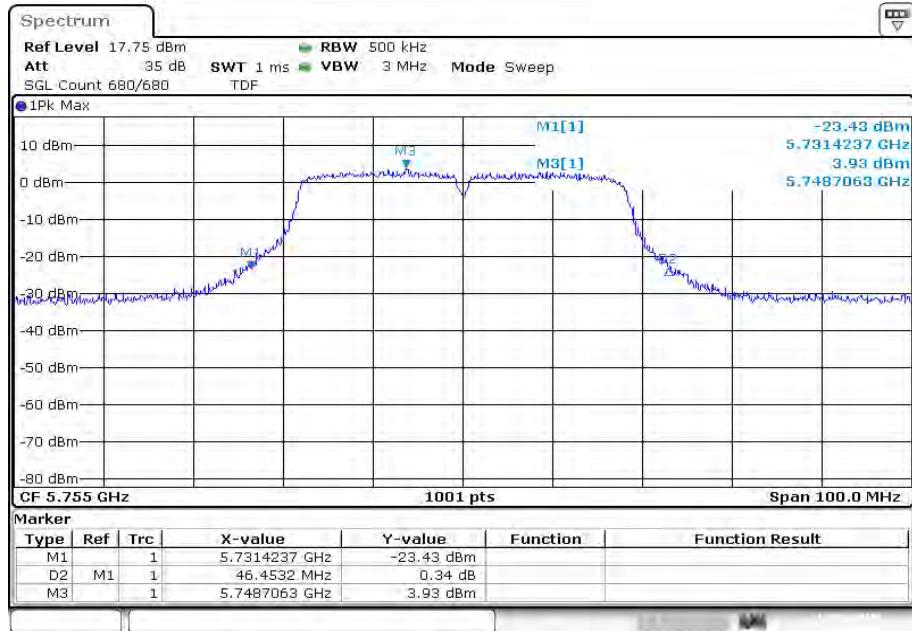
Date: 12.APR.2016 20:48:17

**Plot 4: 5310 MHz**

Date: 12.APR.2016 20:49:31

**Plot 5: 5510 MHz****Plot 6: 5550 MHz**

**Plot 7:** 5630 MHz**Plot 8:** 5670 MHz

**Plot 9: 5755 MHz****Plot 10: 5795 MHz**