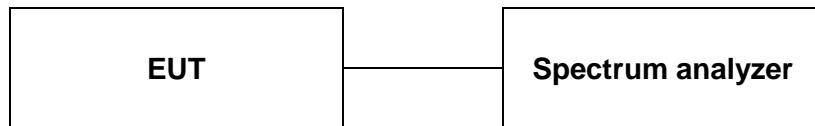


## 5. 26 dB and 99% bandwidth

### 5.1. Test setup



### 5.2. Limit

Not applicable

### 5.3. Test procedure (KDB 789033)

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.

2. Set the spectrum analyzer as,

RBW = approximately 1% of the emission bandwidth

VBW > RBW

Detector = Peak

Trace mode = max hold

3. Repeat until all the rest channels are investigated.

### 5.4. Test results

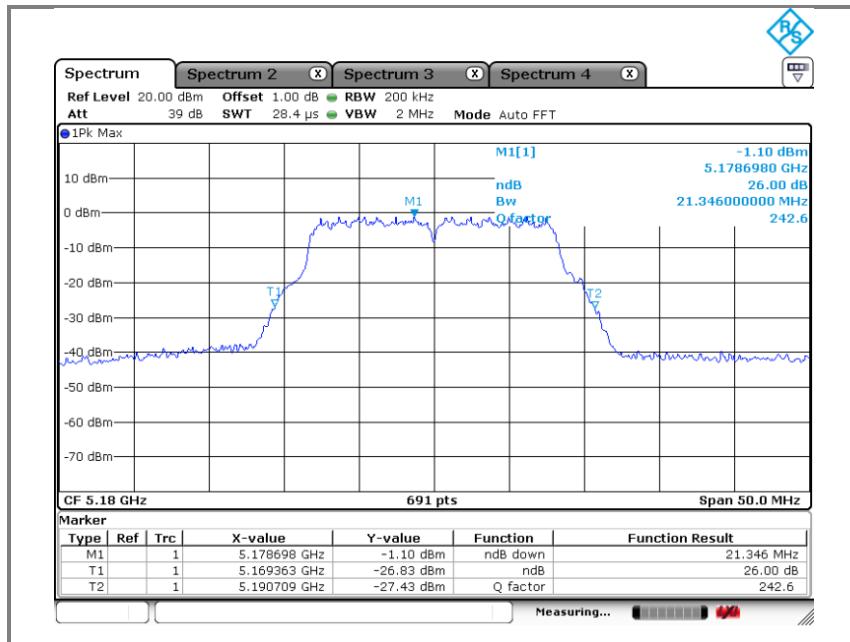
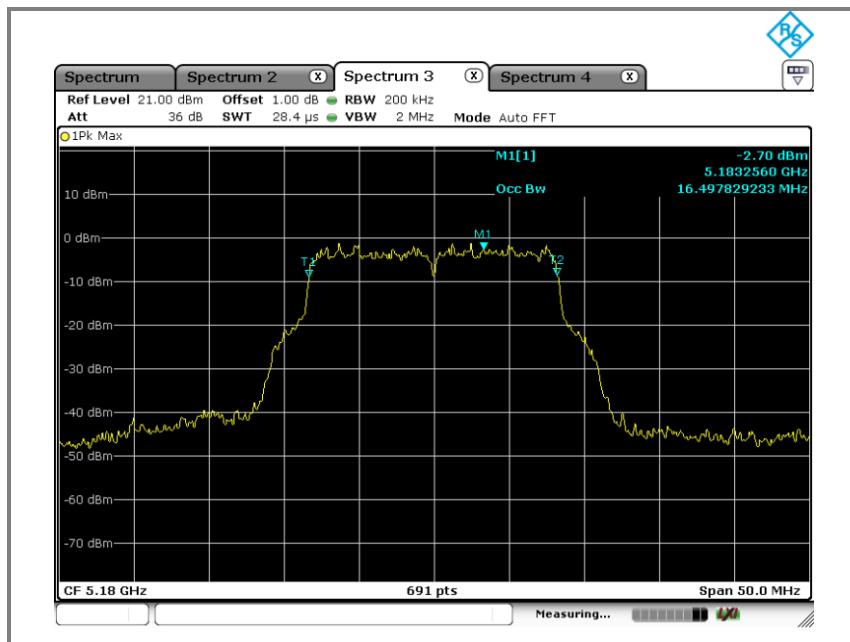
Ambient temperature: 22°C

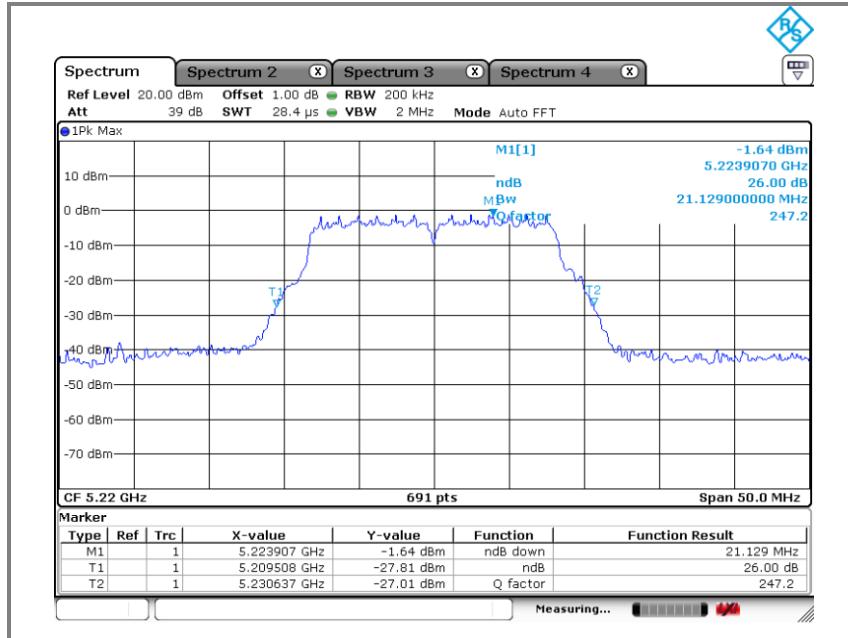
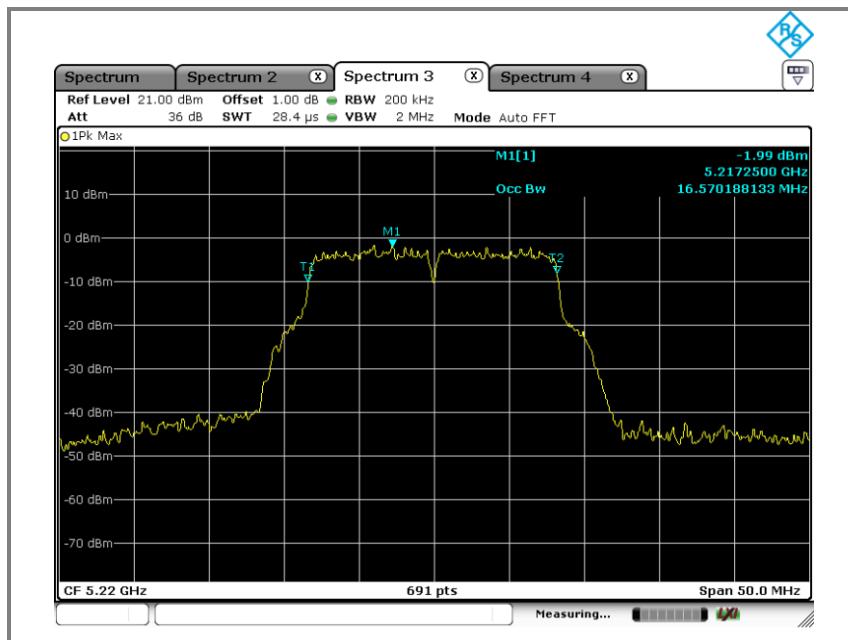
Relative humidity: 45% R.H.

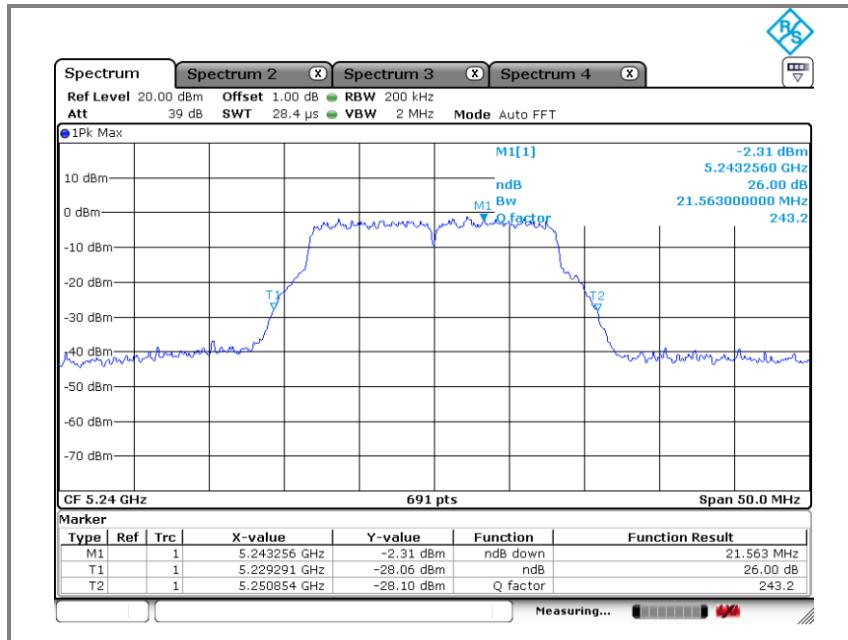
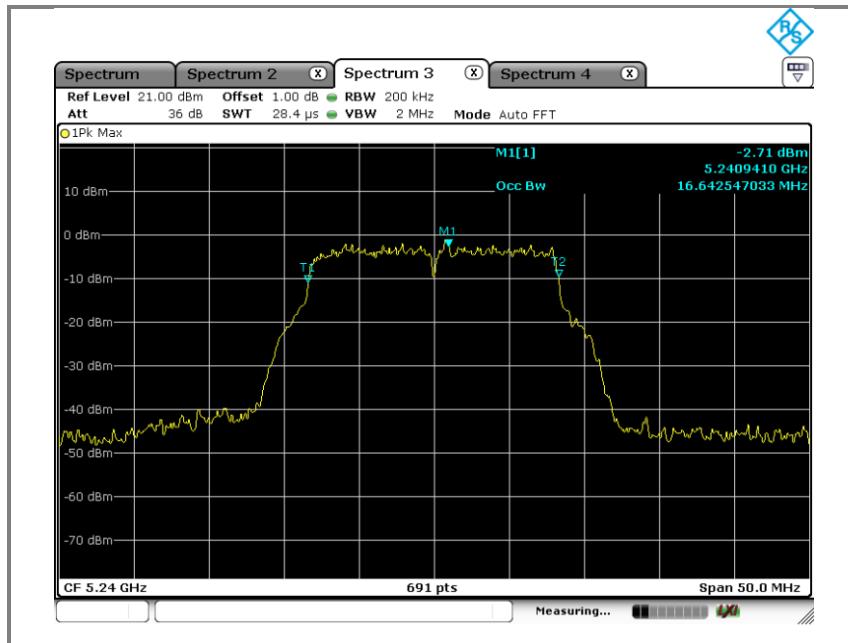
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<b>Mode</b>	<b>Frequency(MHz)</b>	<b>26 dB bandwidth(MHz)</b>	<b>99% bandwidth(MHz)</b>
U-NII-1(802.11a)	5 180	21.35	16.50
	5 220	21.13	16.57
	5 240	21.56	16.64
U-NII-1(n_HT20)	5 180	21.56	18.02
	5 220	21.78	17.73
	5 240	21.64	17.73
U-NII-1(n_HT40)	5 190	39.48	36.12
	5 230	39.48	36.12
U-NII-1(VHT80)	5 210	81.04	75.72
U-NII-2A(802.11a)	5 260	21.27	16.57
	5 300	21.42	16.71
	5 320	21.49	16.79
U-NII-2A(n_HT20)	5 260	21.42	17.95
	5 300	21.93	17.87
	5 320	21.27	17.95
U-NII-2A(n_HT40)	5 270	39.36	36.12
	5 310	39.25	36.24
U-NII-2A(VHT80)	5 290	80.81	75.95
U-NII-2C(802.11a)	5 500	21.49	16.64
	5 560	20.84	16.71
	5 620	21.42	16.57
U-NII-2C(n_HT20)	5 500	22.07	17.95
	5 560	21.93	17.95
	5 620	21.49	18.02
U-NII-2C(n_HT40)	5 510	39.71	36.24
	5 550	39.71	36.12
	5 590	39.48	36.24
U-NII-2C(VHT80)	5 530	80.58	75.95
	5 610	81.51	75.72

<b>Mode</b>	<b>Frequency(MHz)</b>	<b>26 dB bandwidth(MHz)</b>	<b>99% bandwidth(MHz)</b>
U-NII-3(802.11a)	5 745	21.64	16.64
	5 785	21.35	16.71
	5 805	21.42	16.64
U-NII-3(n_HT20)	5 745	21.56	17.80
	5 785	21.78	17.95
	5 805	21.93	17.73
U-NII-3(n_HT40)	5 755	39.48	36.24
	5 795	39.48	36.12
U-NII-3(VHT80)	5 775	81.97	75.72

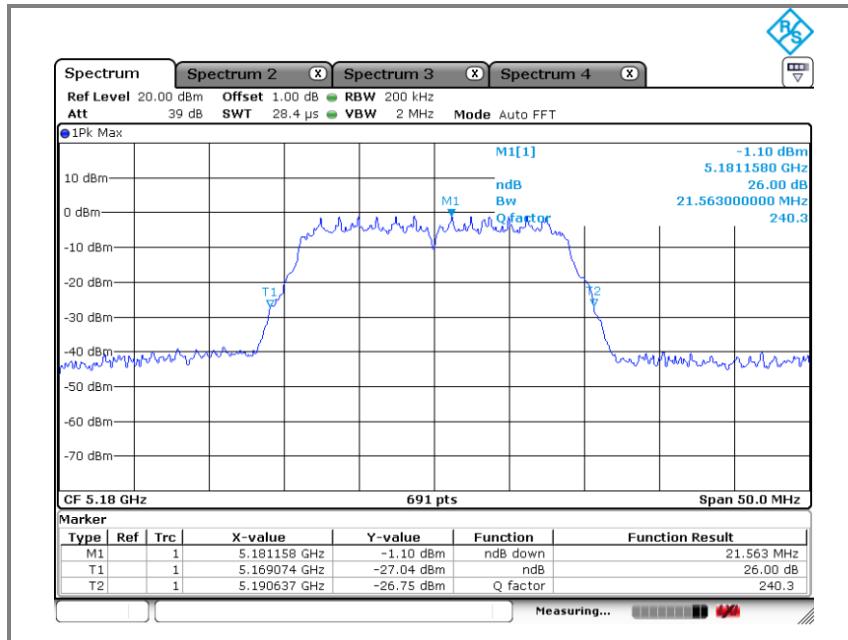
**Operation mode: U-NII-1(802.11a)**
**A. Low channel(5180 MHz)- 26 dB bandwidth**

**A. Low channel(5180 MHz)– 99% bandwidth**


**B. Middle channel(5220 MHz)- 26 dB bandwidth**

**B. Middle channel(5220 MHz)– 99% bandwidth**


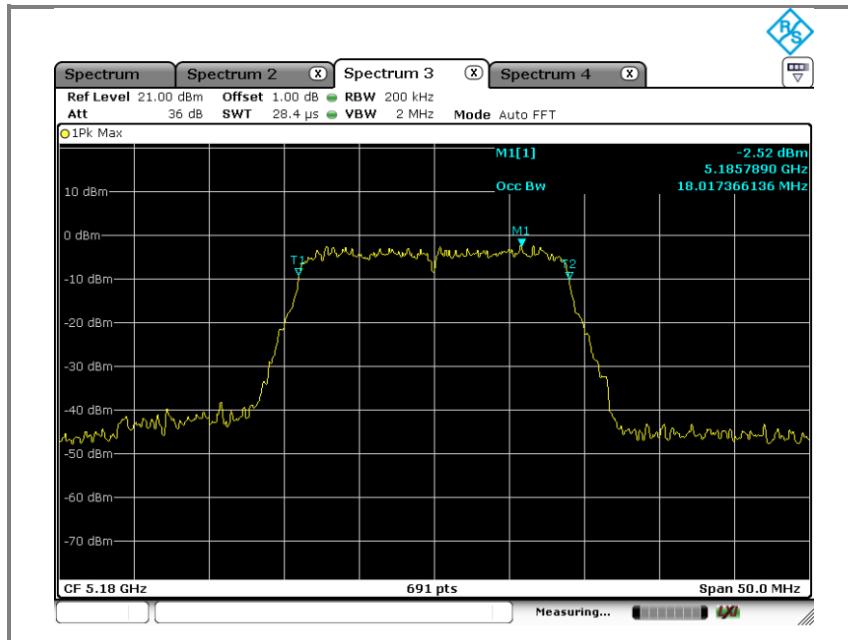
**C. High channel(5240 MHz)- 26 dB bandwidth**

**C. High channel(5240 MHz)– 99% bandwidth**


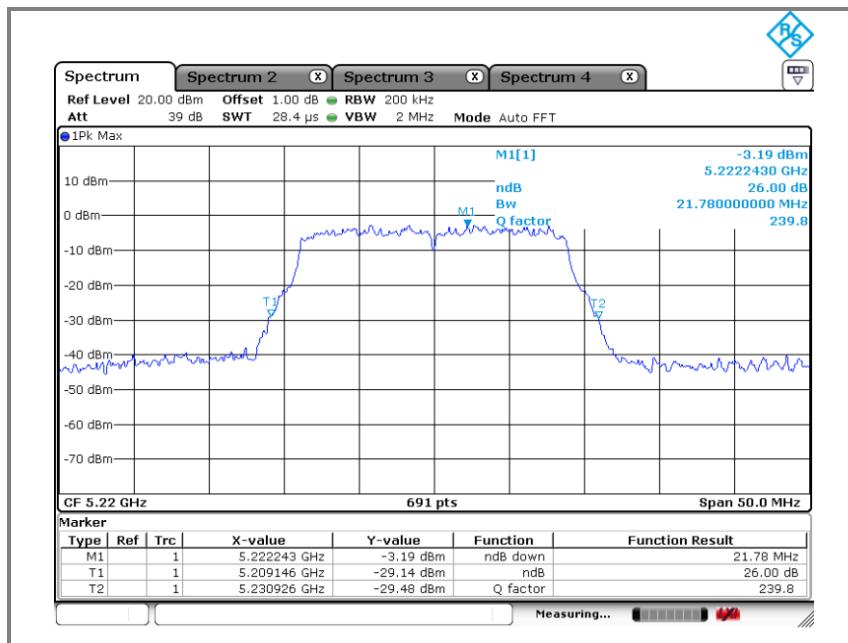
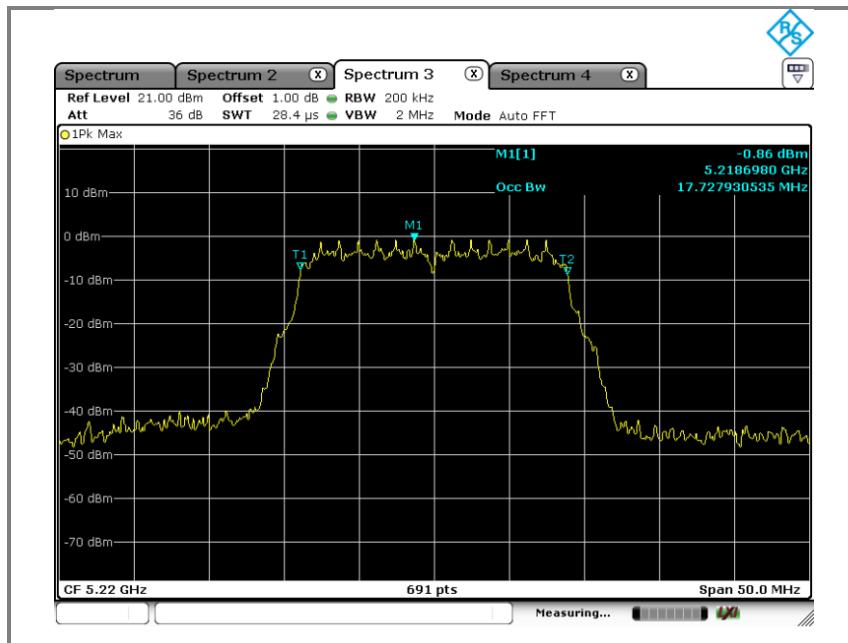
**Operation mode: U-NII-1(n\_HT20)**

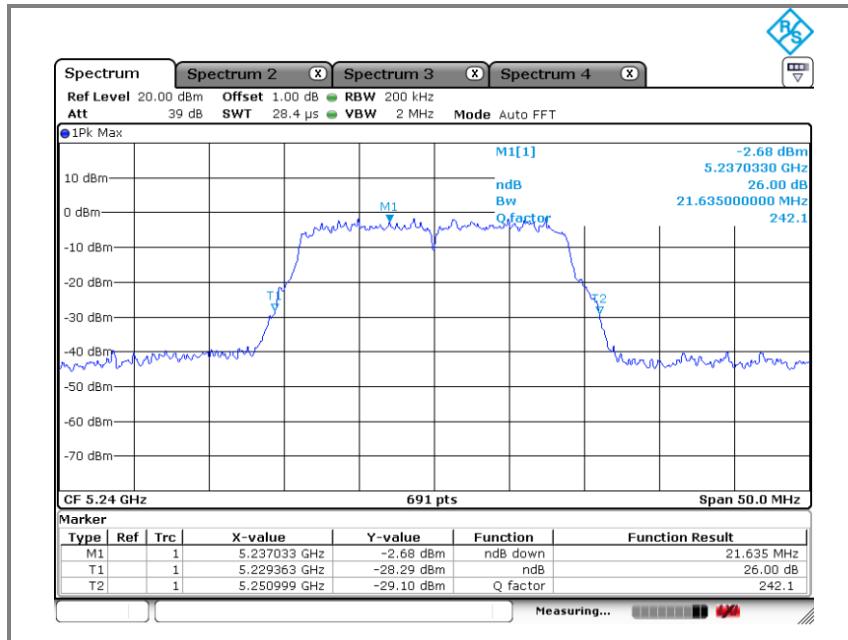
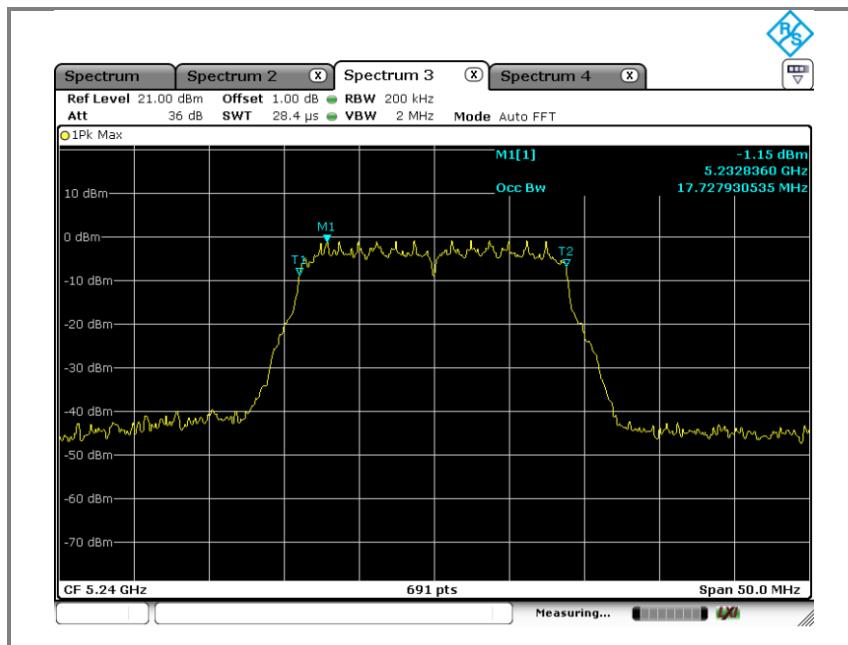
### A. Low channel(5180 MHz)- 26 dB bandwidth



### A. Low channel(5180 MHz)- 99% bandwidth

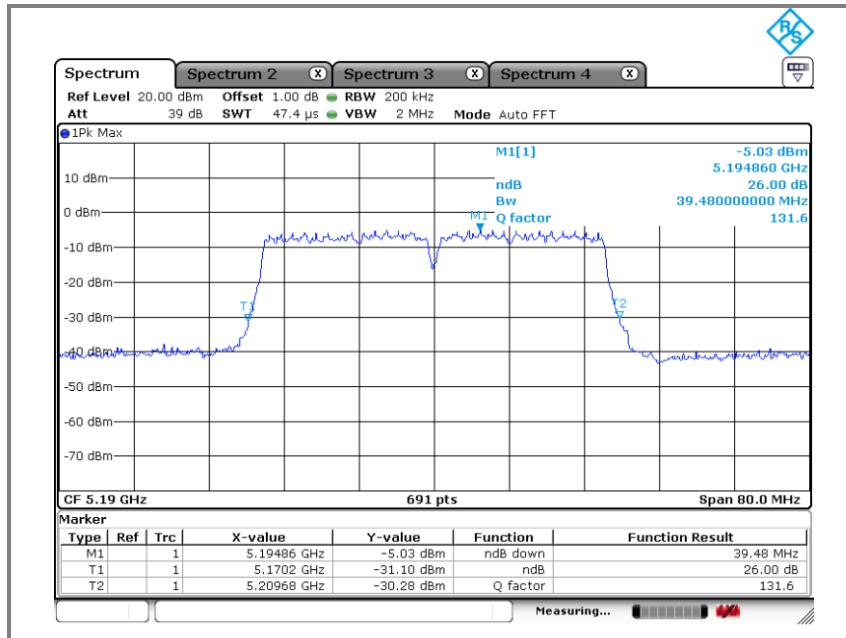


**B. Middle channel(5220 MHz)- 26 dB bandwidth**

**B. Middle channel(5220 MHz)– 99% bandwidth**


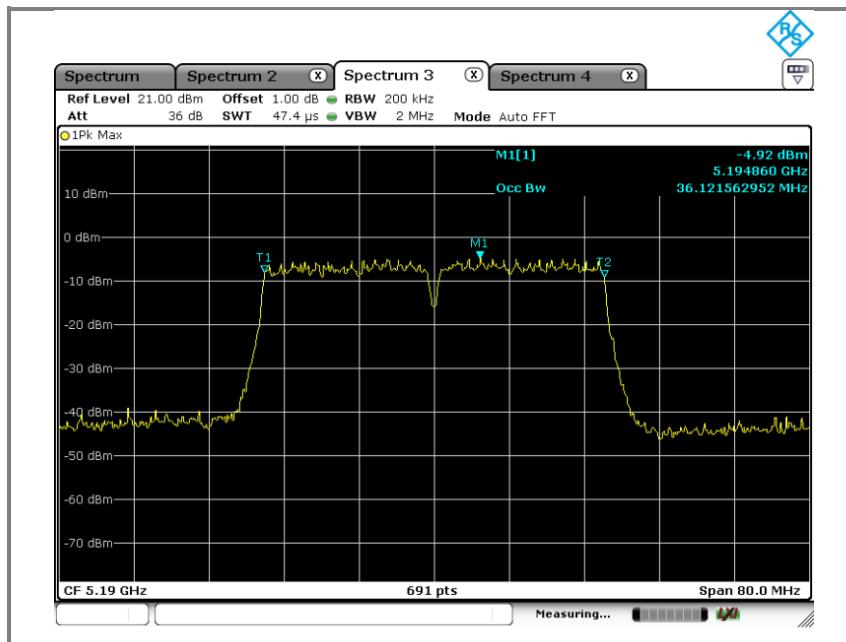
**C. High channel(5240 MHz)- 26 dB bandwidth**

**C. High channel(5240 MHz)– 99% bandwidth**


**Operation mode: U-NII-1(n\_HT40)**

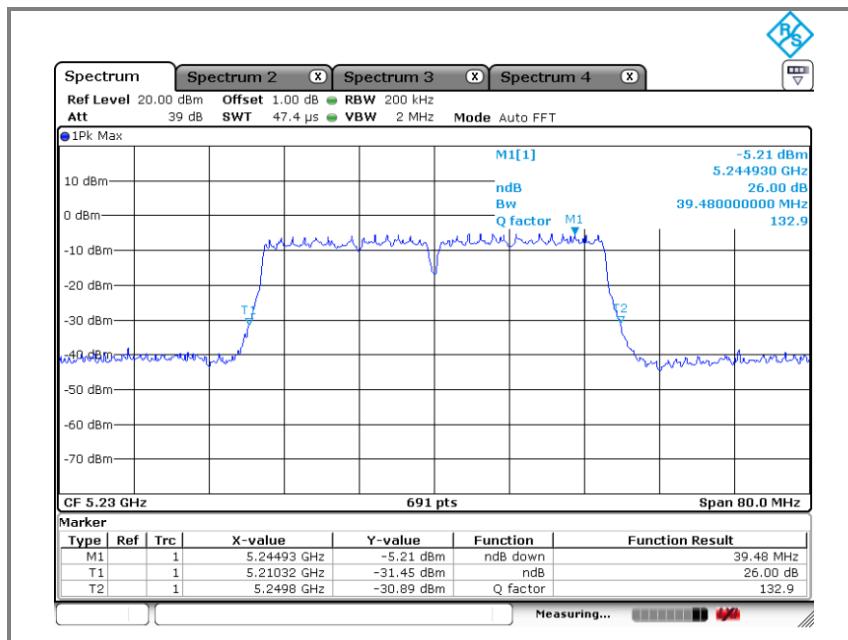
### A. Low channel(5190 MHz)- 26 dB bandwidth



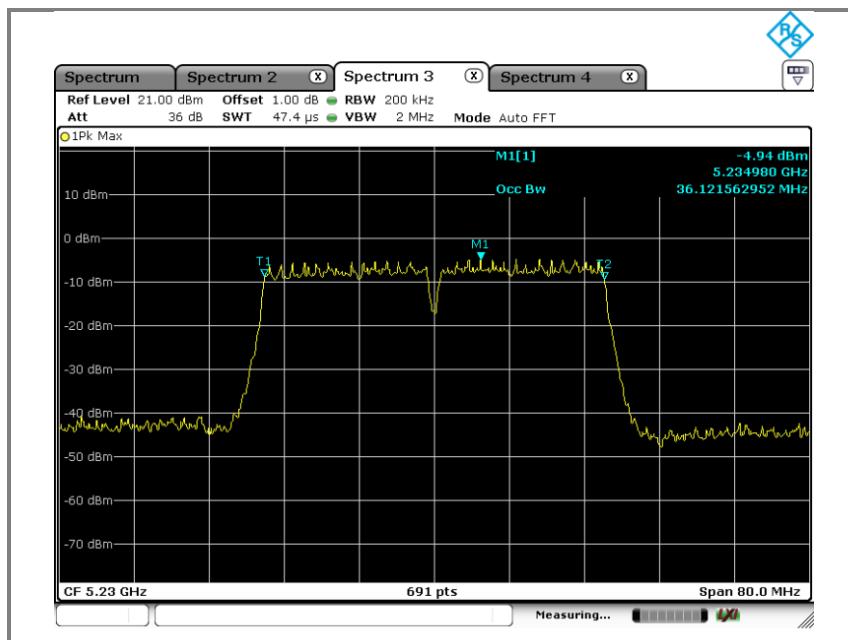
### A. Low channel(5190 MHz)– 99% bandwidth

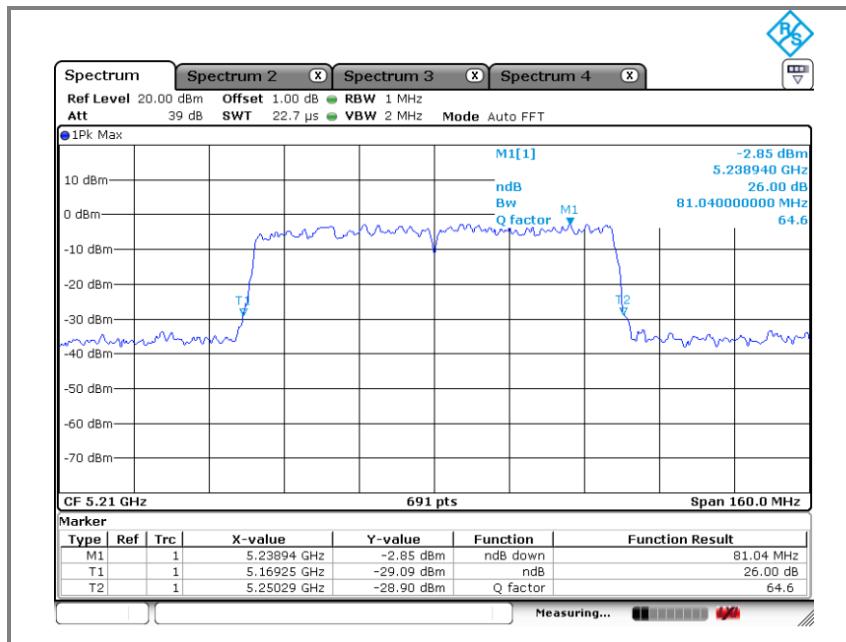
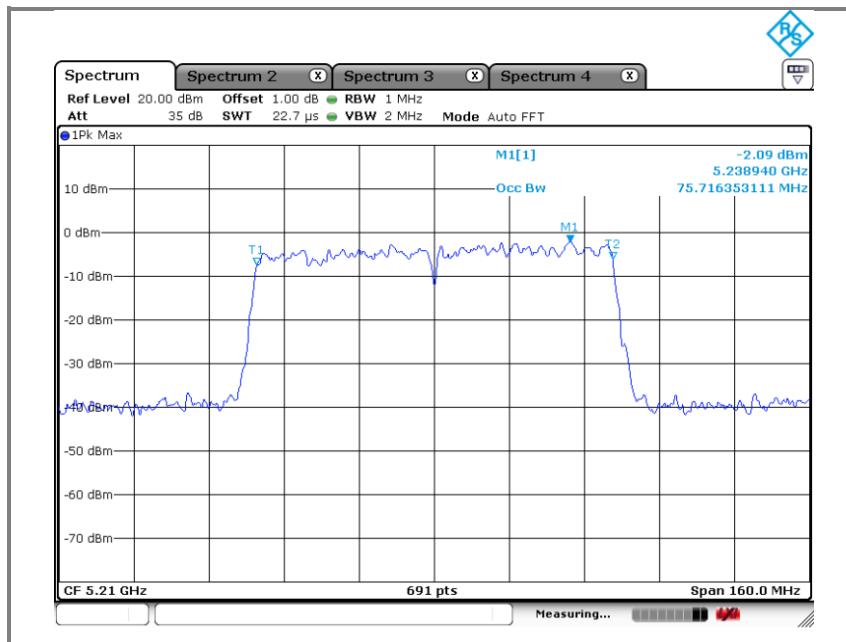


### B. High channel(5230 MHz)- 26 dB bandwidth



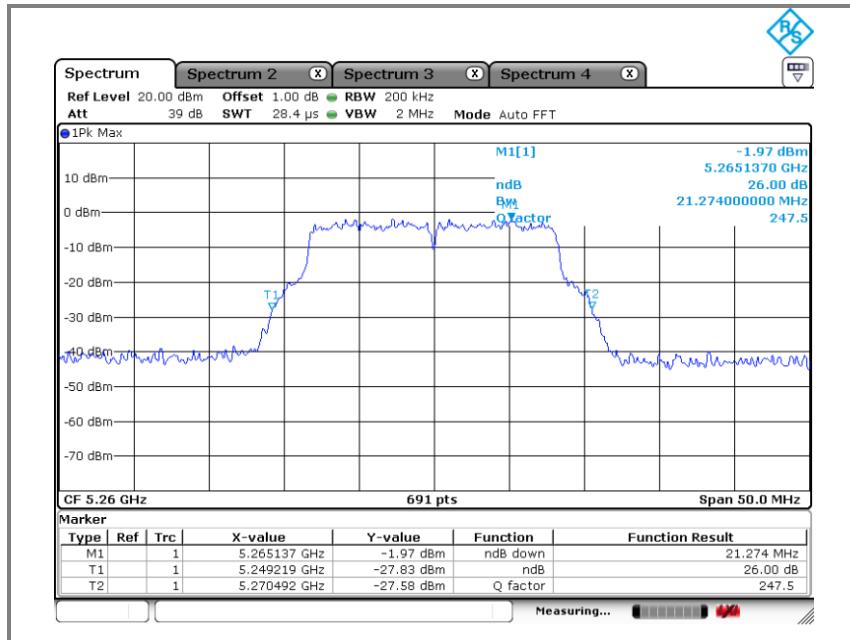
### B. High channel(5230 MHz)– 99% bandwidth



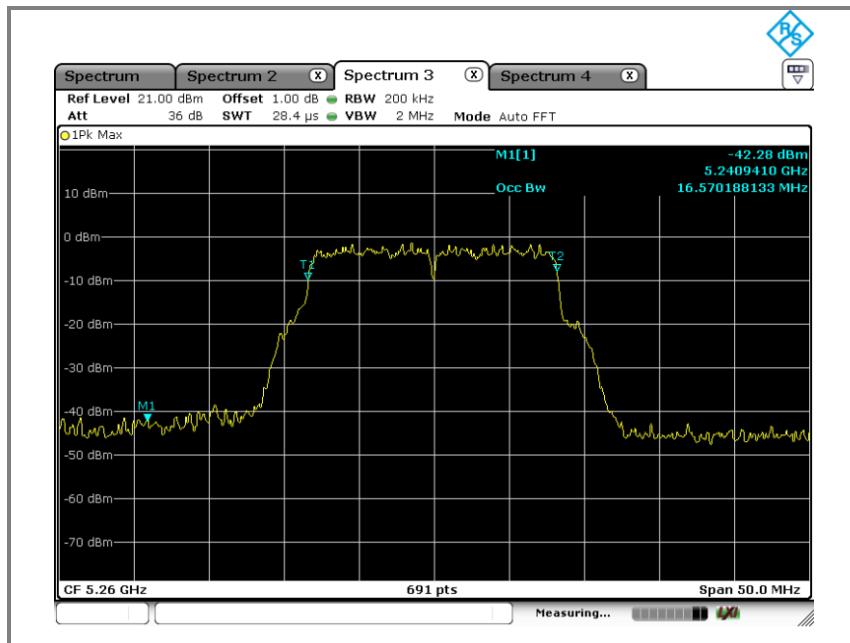
**Operation mode: U-NII-1(VHT80)**
**A. Low channel(5210 MHz)- 26 dB bandwidth**

**A. Low channel(5210 MHz)– 99% bandwidth**


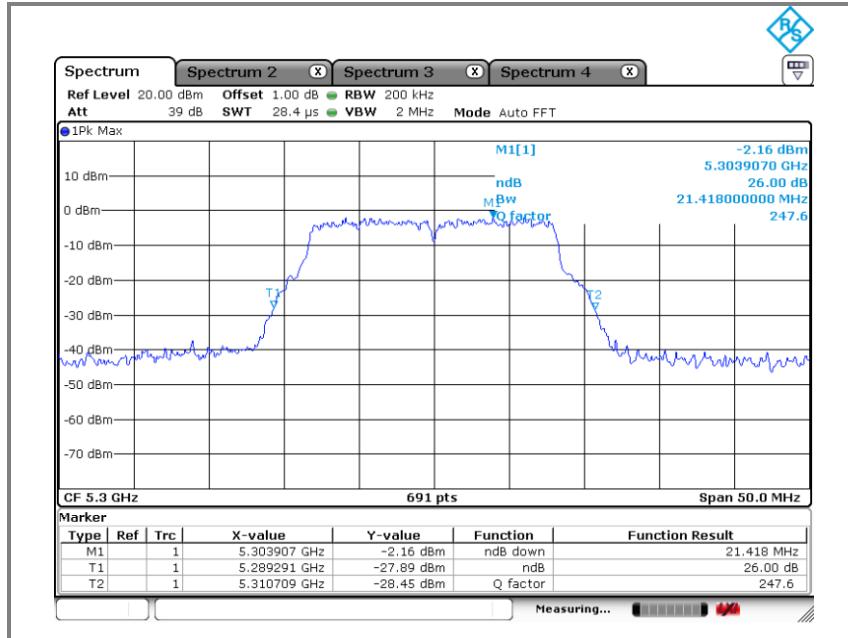
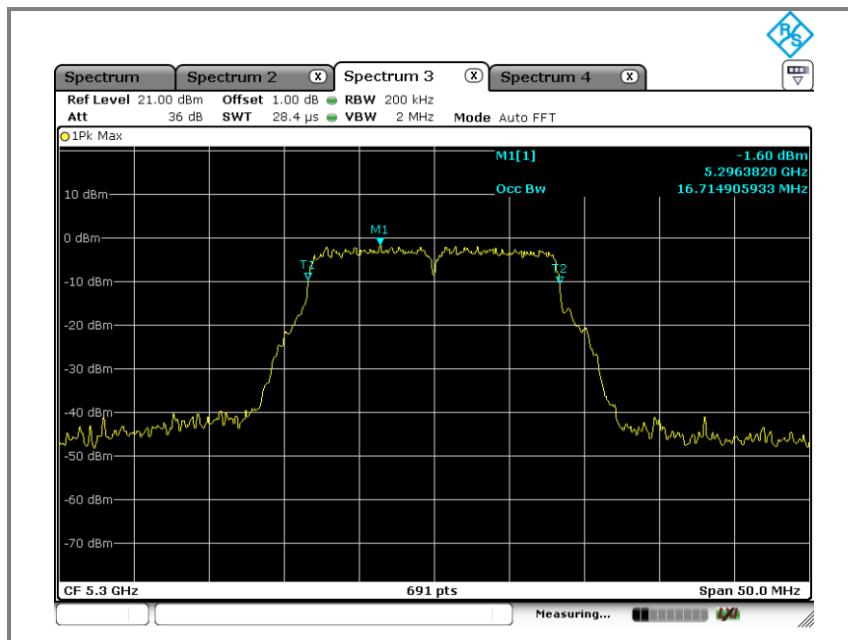
**Operation mode: U-NII-2A(802.11a)**

### A. Low channel(5260 MHz)- 26 dB bandwidth

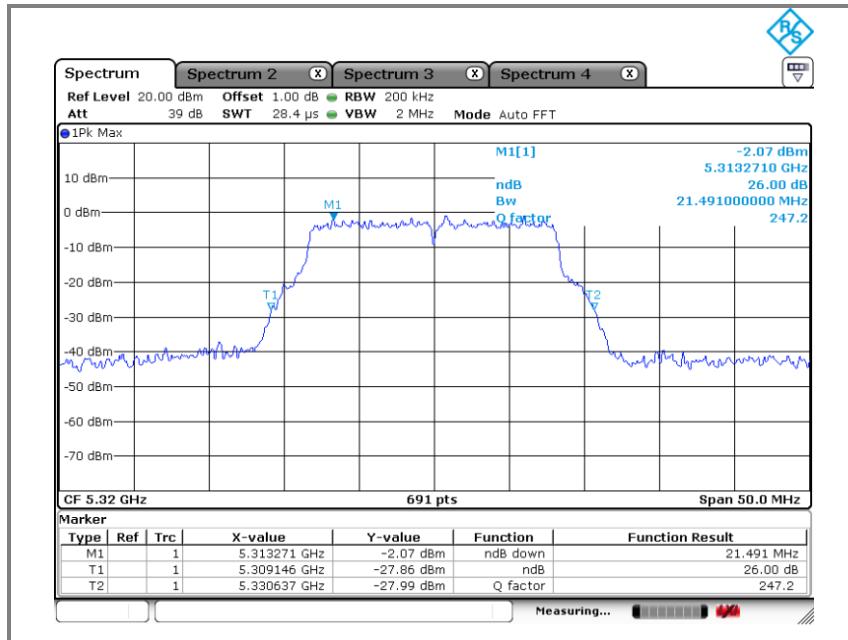


### A. Low channel(5260 MHz)– 99% bandwidth

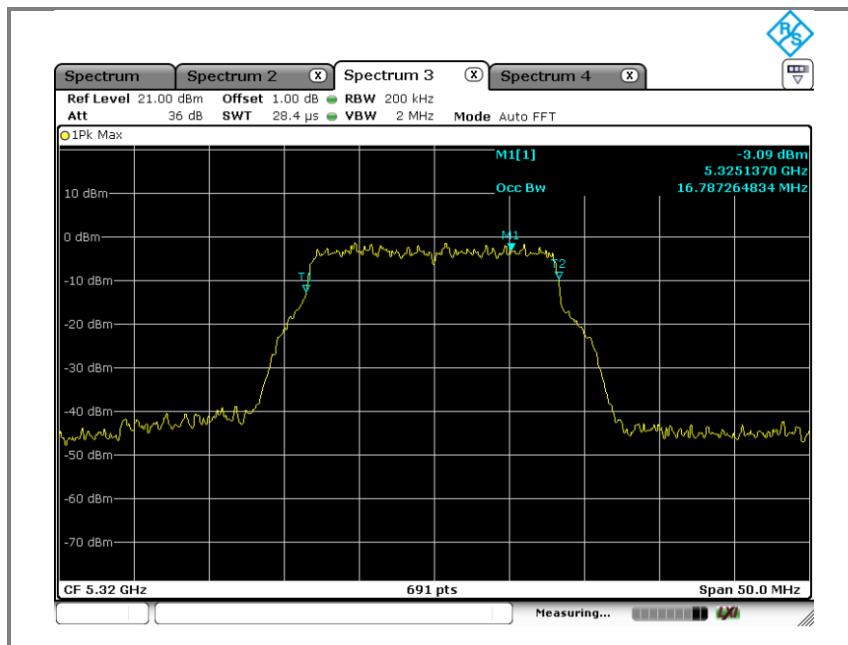


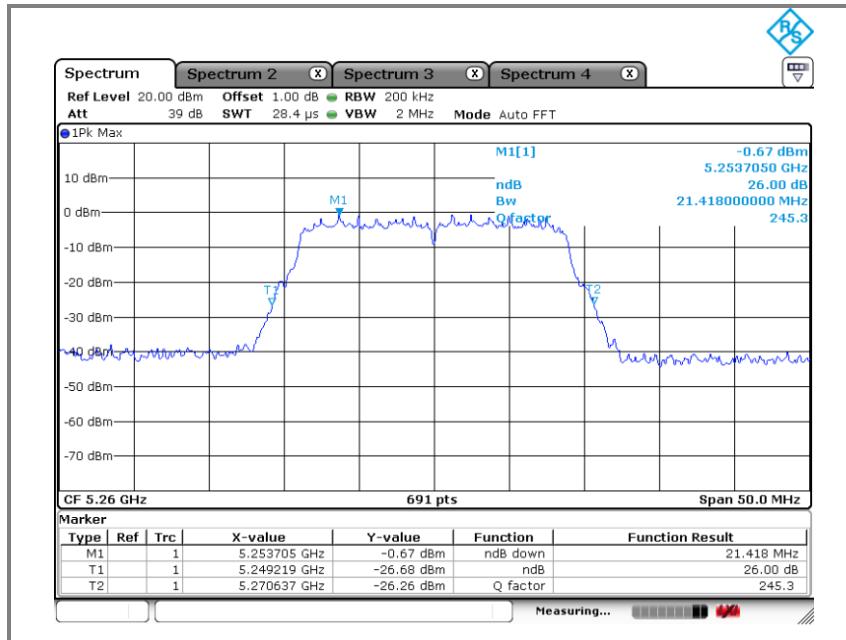
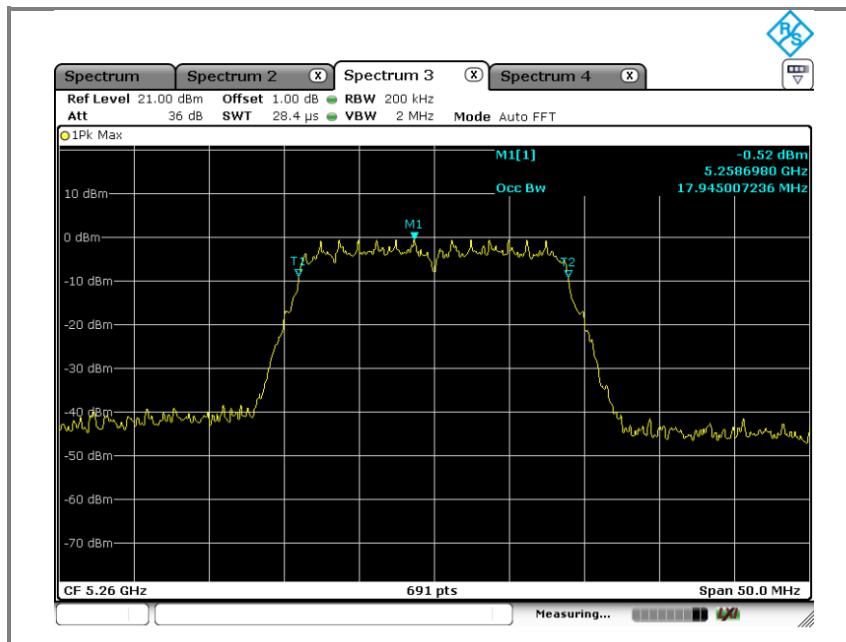
**B. Middle channel(5300 MHz)- 26 dB bandwidth**

**B. Middle channel(5300 MHz)– 99% bandwidth**


### C. High channel(5320 MHz)- 26 dB bandwidth

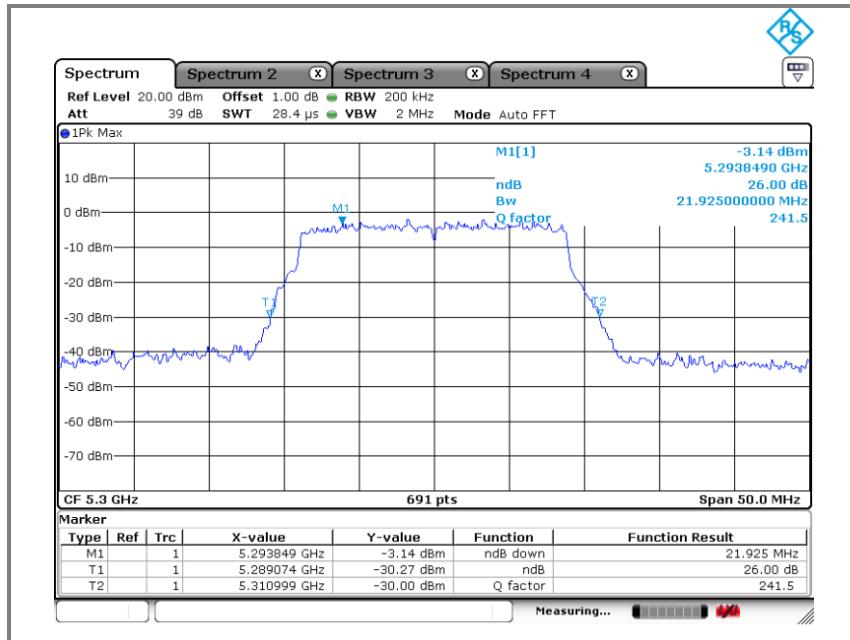


### C. High channel(5320 MHz)– 99% bandwidth

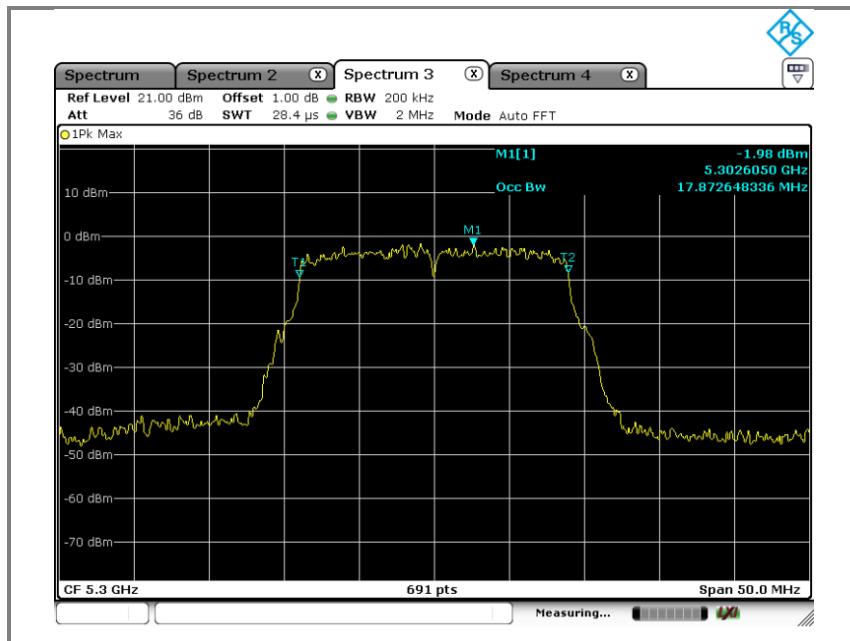


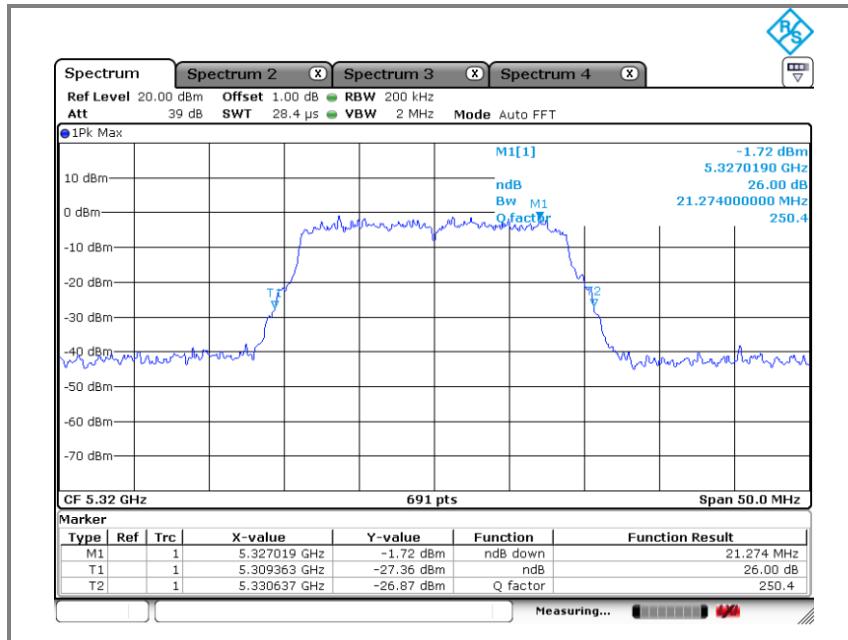
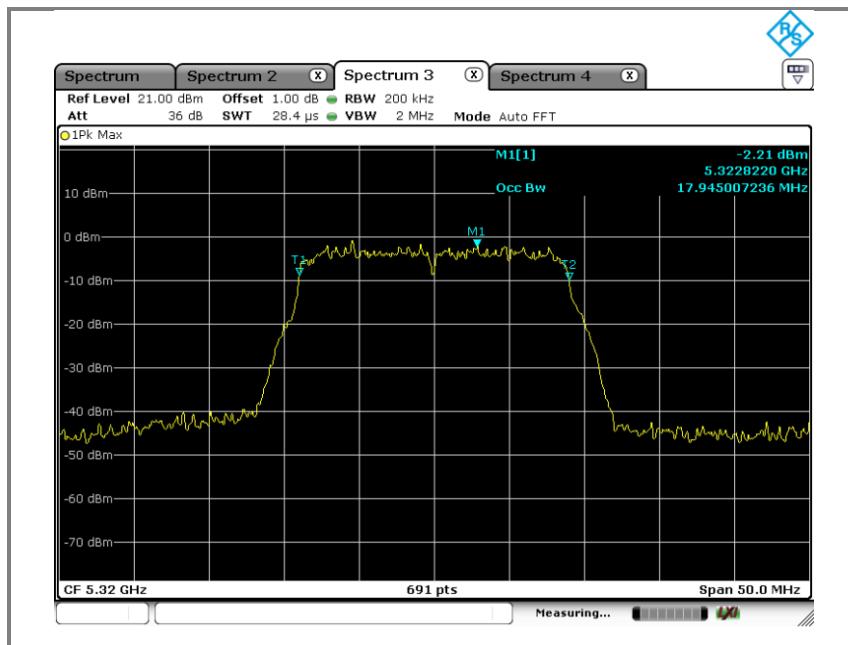
**Operation mode: U-NII-2A(n\_HT20)**
**A. Low channel(5260 MHz)- 26 dB bandwidth**

**A. Low channel(5260 MHz)– 99% bandwidth**


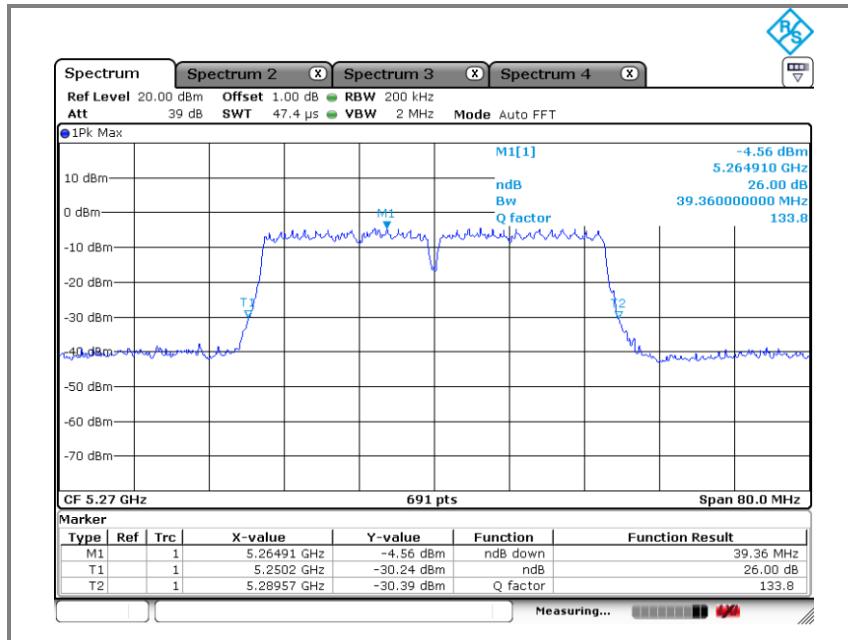
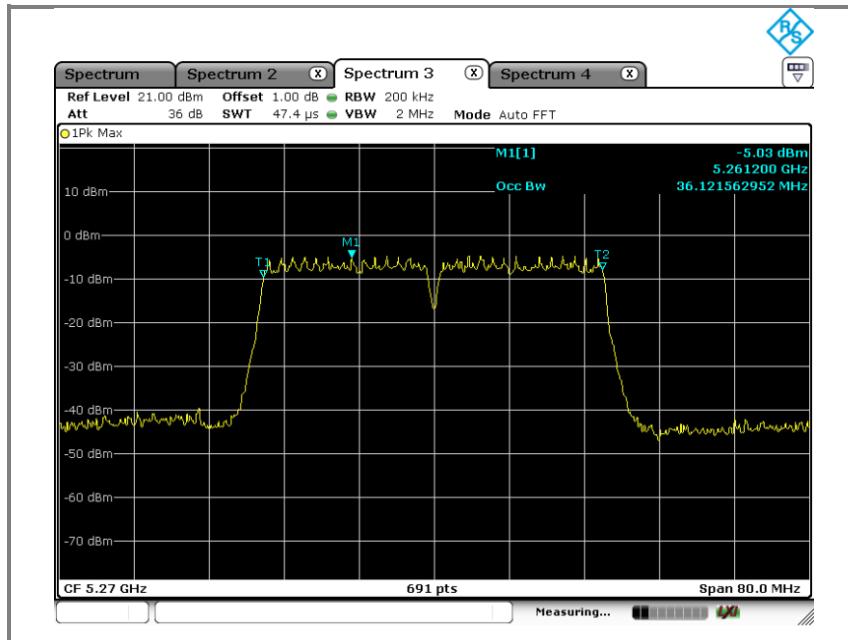
### B. Middle channel(5300 MHz)- 26 dB bandwidth



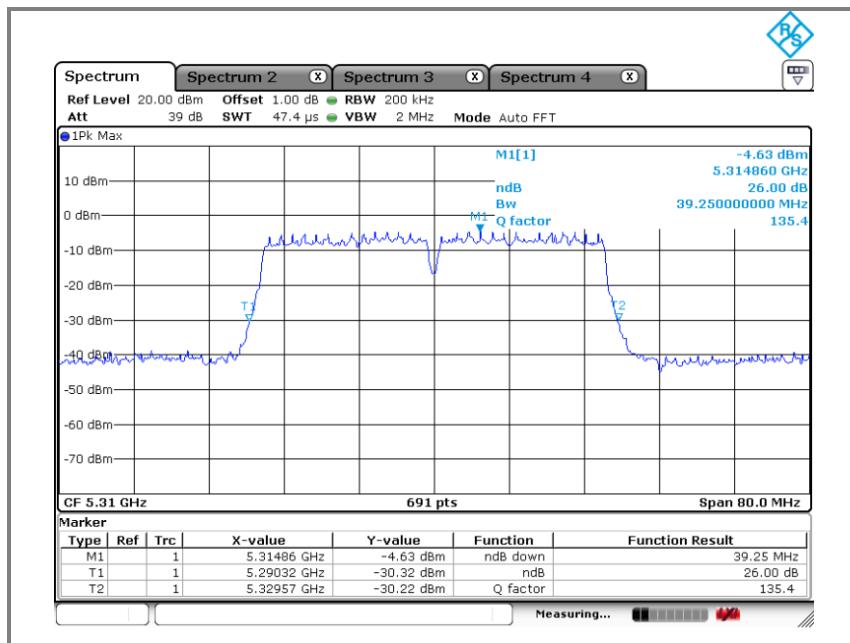
### B. Middle channel(5300 MHz)– 99% bandwidth



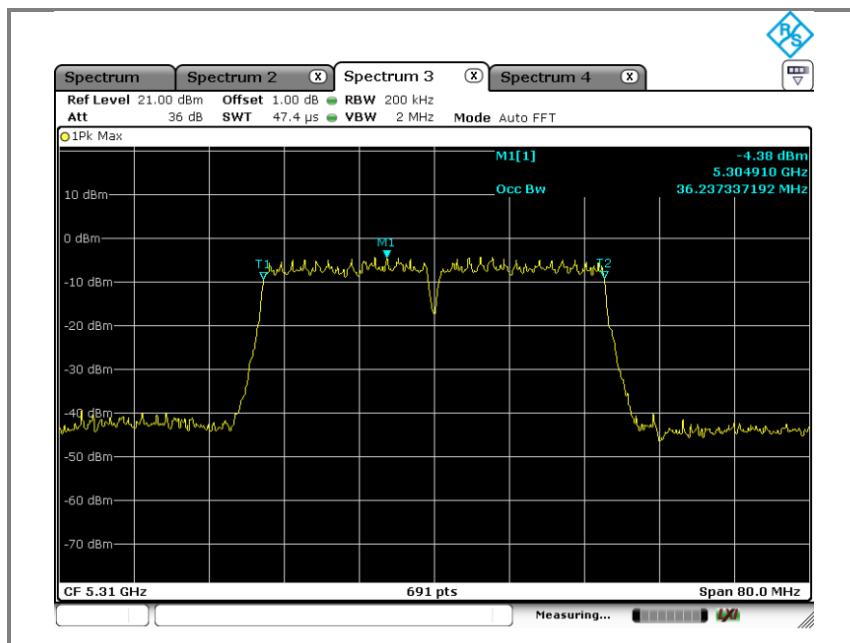
**C. High channel(5320 MHz)- 26 dB bandwidth**

**C. High channel(5320 MHz)– 99% bandwidth**


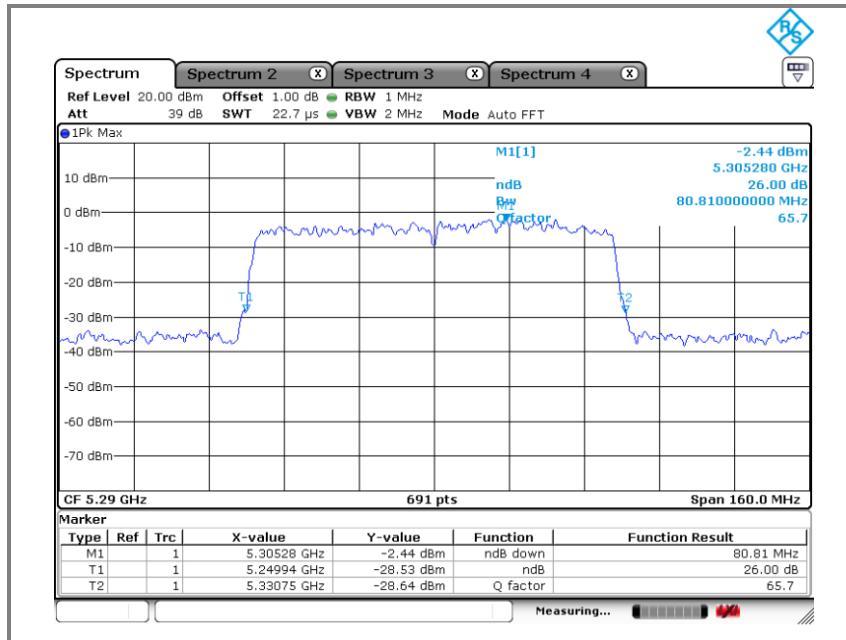
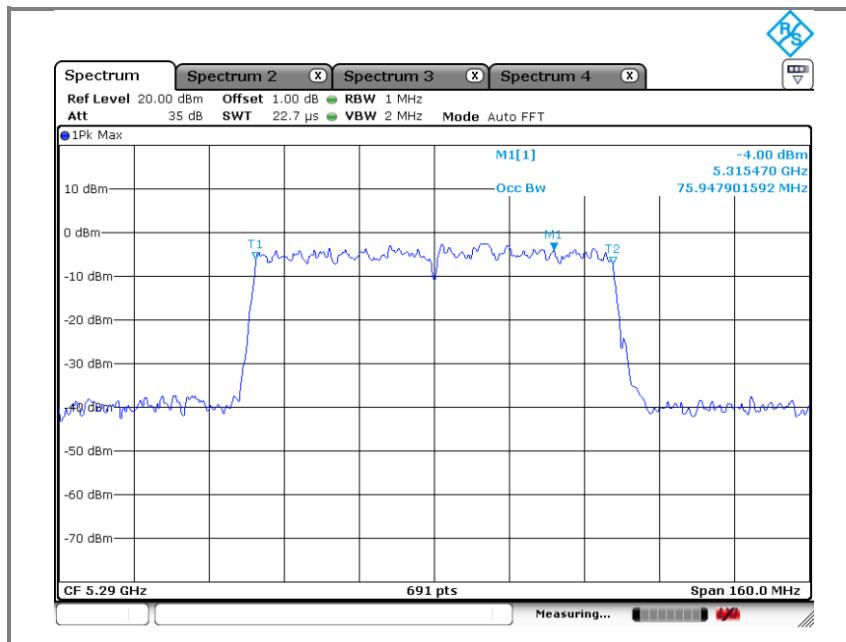
**Operation mode: U-NII-2A(n\_HT40)**
**A. Low channel(5270 MHz)- 26 dB bandwidth**

**A. Low channel(5270 MHz)- 99% bandwidth**


### B. High channel(5310 MHz)- 26 dB bandwidth



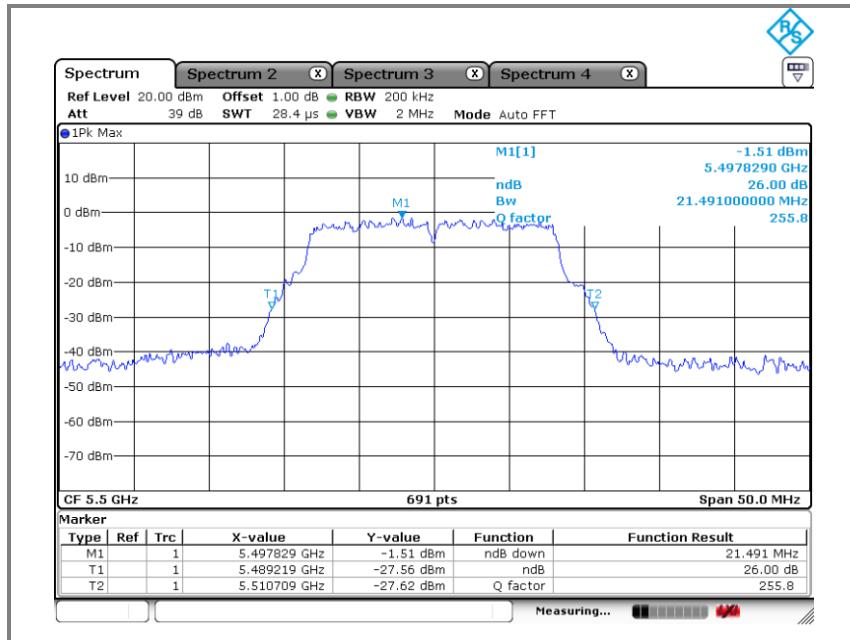
### B. High channel(5310 MHz)– 99% bandwidth



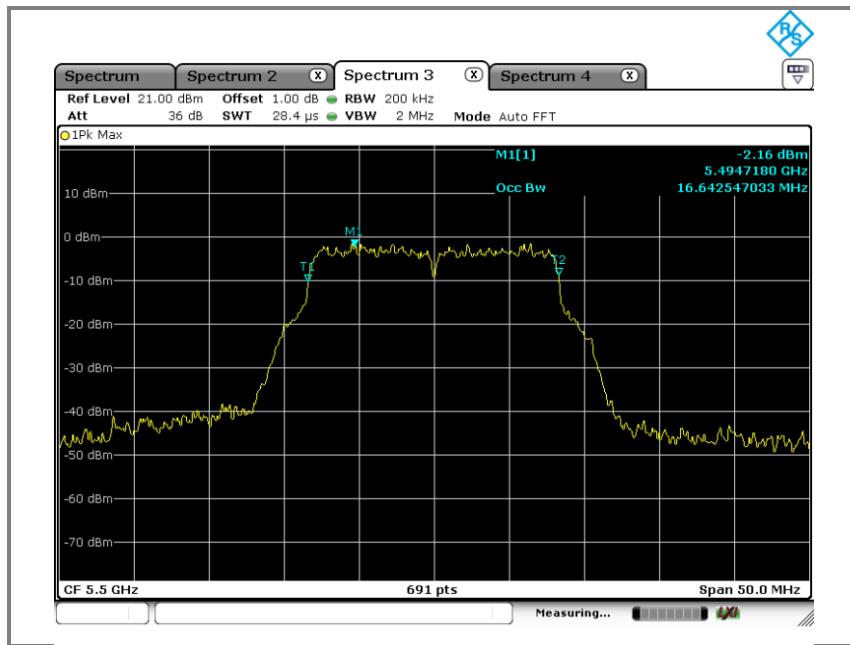
**Operation mode: U-NII-2A(VHT80)**
**A. Low channel(5290 MHz)- 26 dB bandwidth**

**A. Low channel(5290 MHz)– 99% bandwidth**


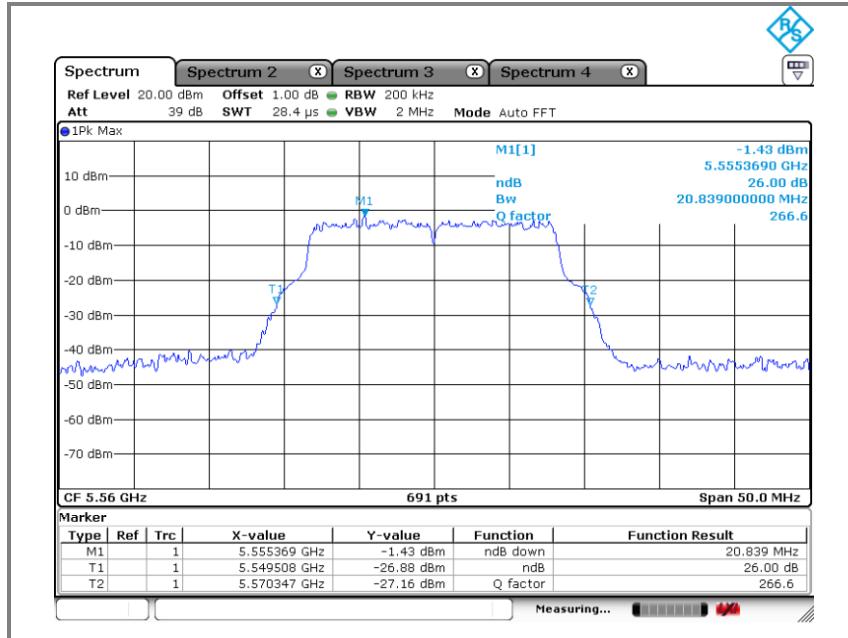
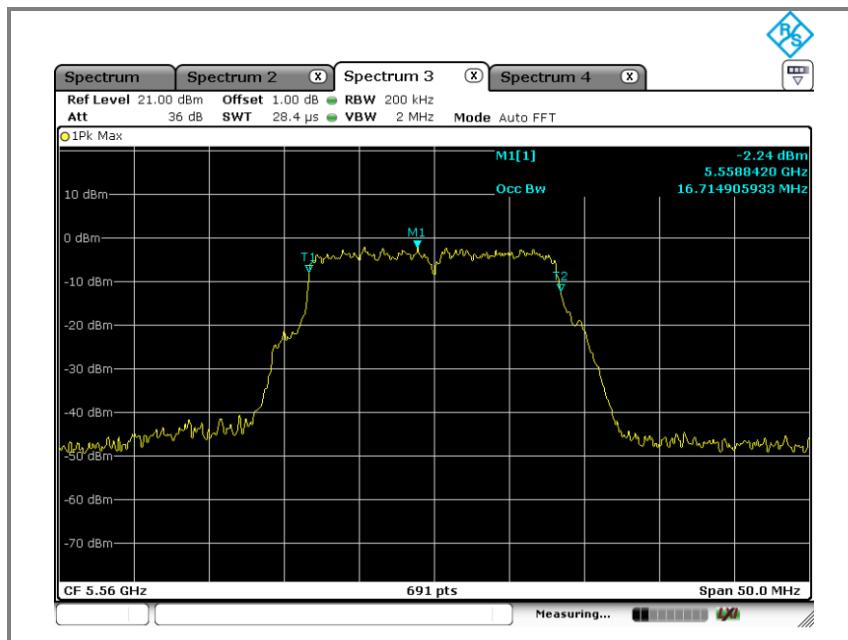
**Operation mode: U-NII-2C(802.11a)**

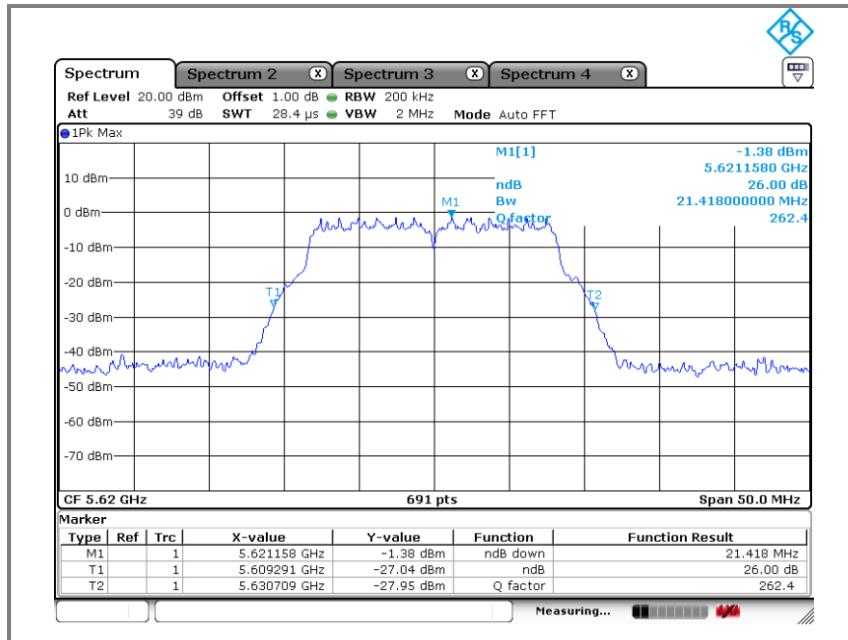
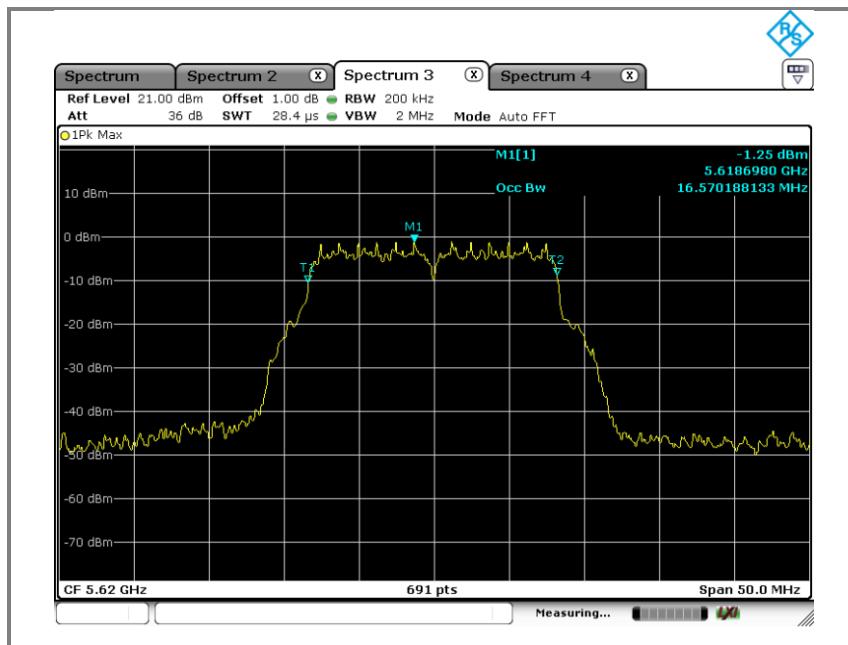
### A. Low channel(5500 MHz)- 26 dB bandwidth

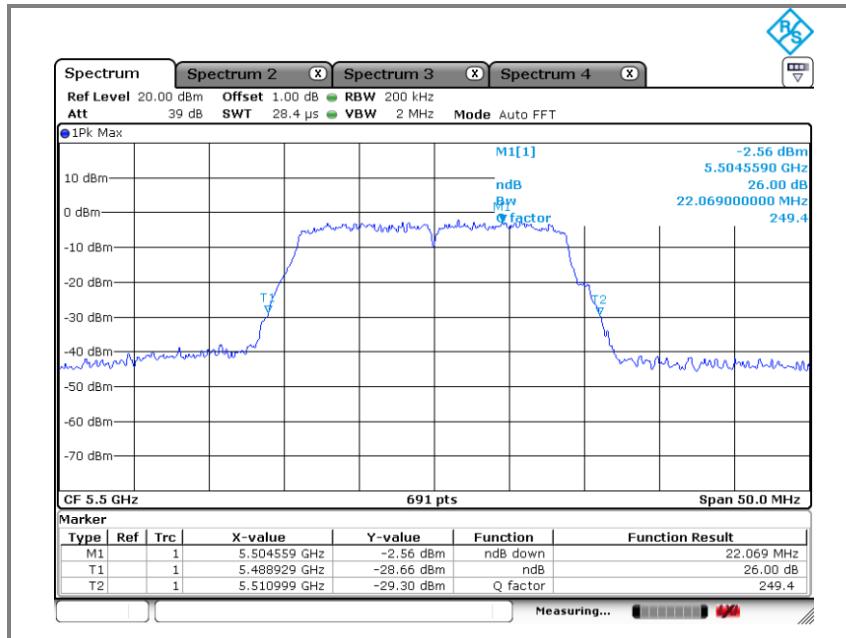
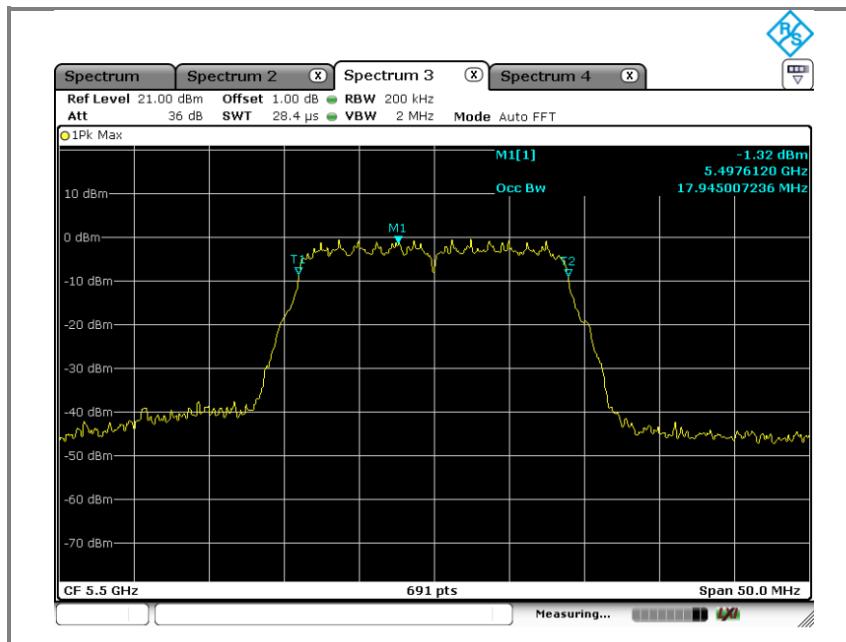


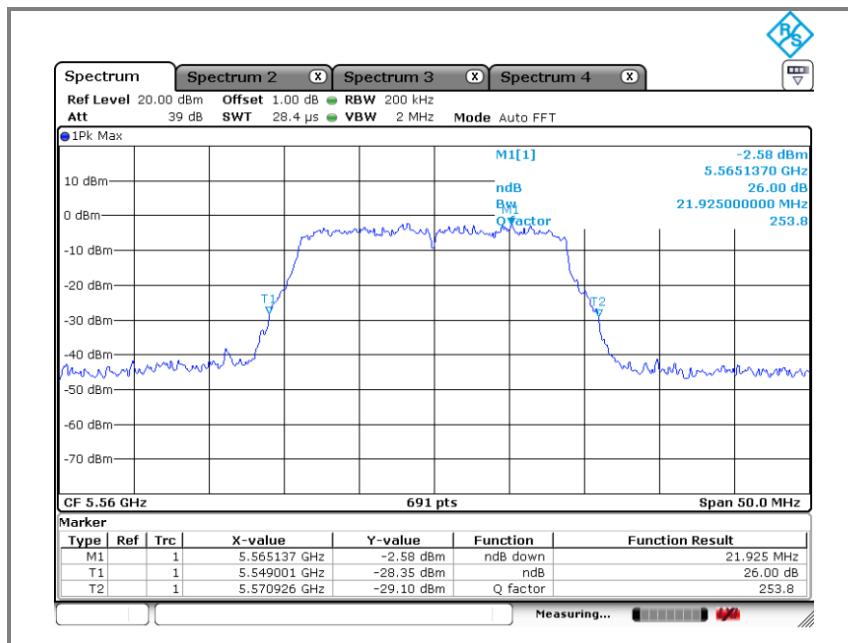
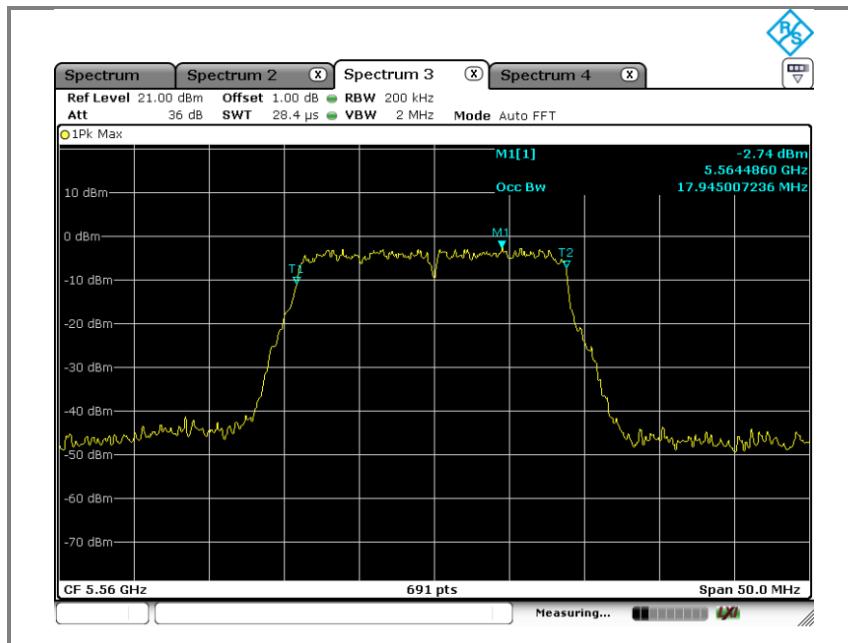
### A. Low channel(5500 MHz)– 99% bandwidth

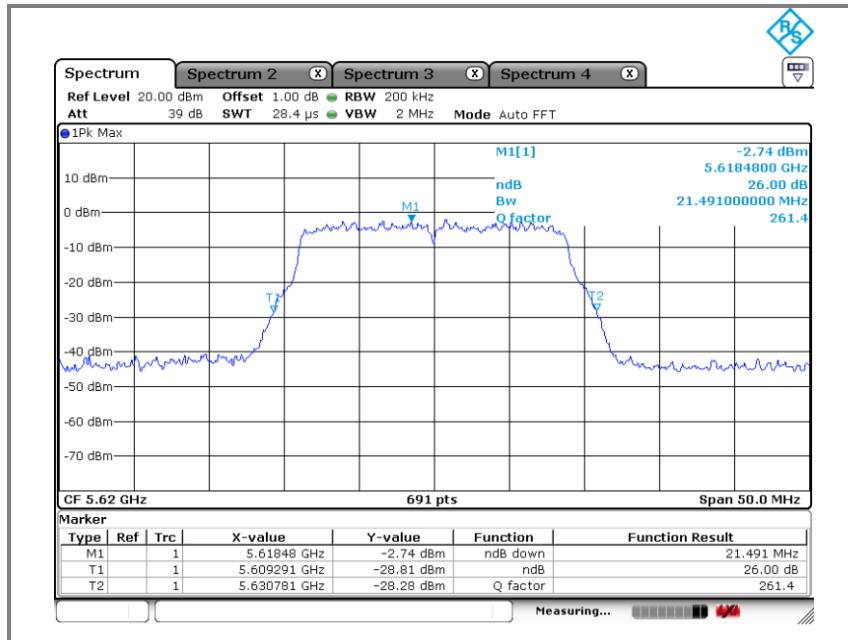
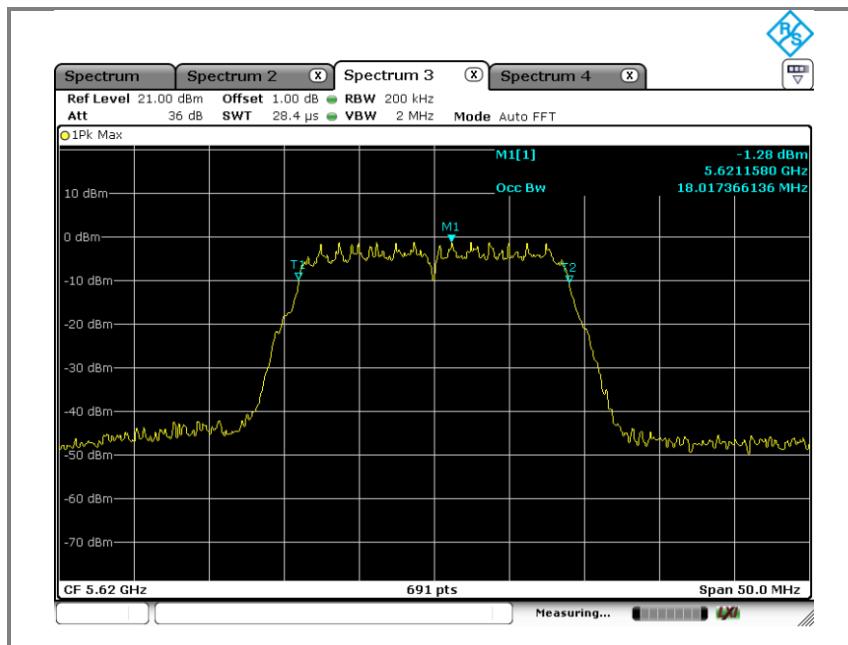


**B. Middle channel(5560 MHz)- 26 dB bandwidth**

**B. Middle channel(5560 MHz)– 99% bandwidth**


**C. High channel(5620 MHz)- 26 dB bandwidth**

**C. High channel(5620 MHz)– 99% bandwidth**


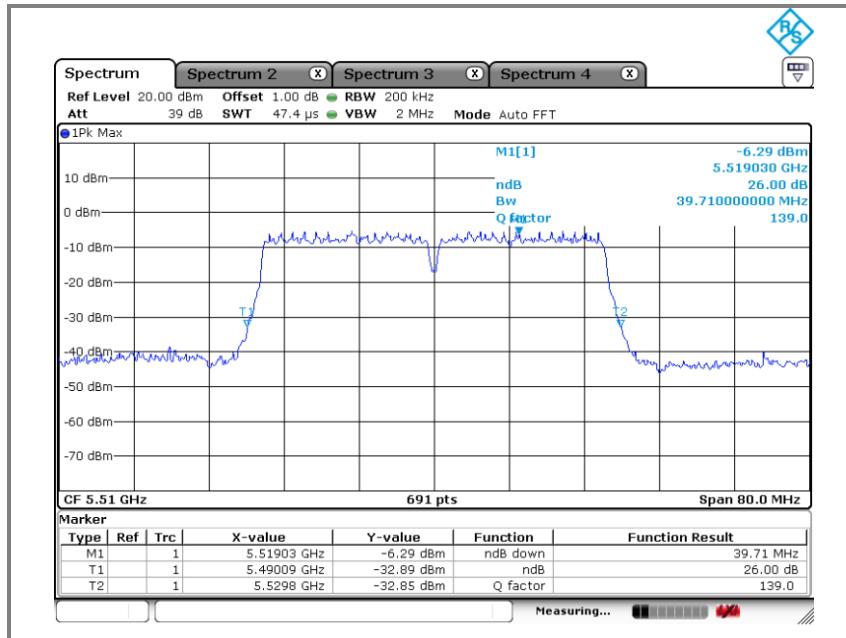
**Operation mode: U-NII-2C(n\_HT20)**
**A. Low channel(5500 MHz)- 26 dB bandwidth**

**A. Low channel(5500 MHz)– 99% bandwidth**


**B. Middle channel(5560 MHz)- 26 dB bandwidth**

**B. Middle channel(5560 MHz)– 99% bandwidth**


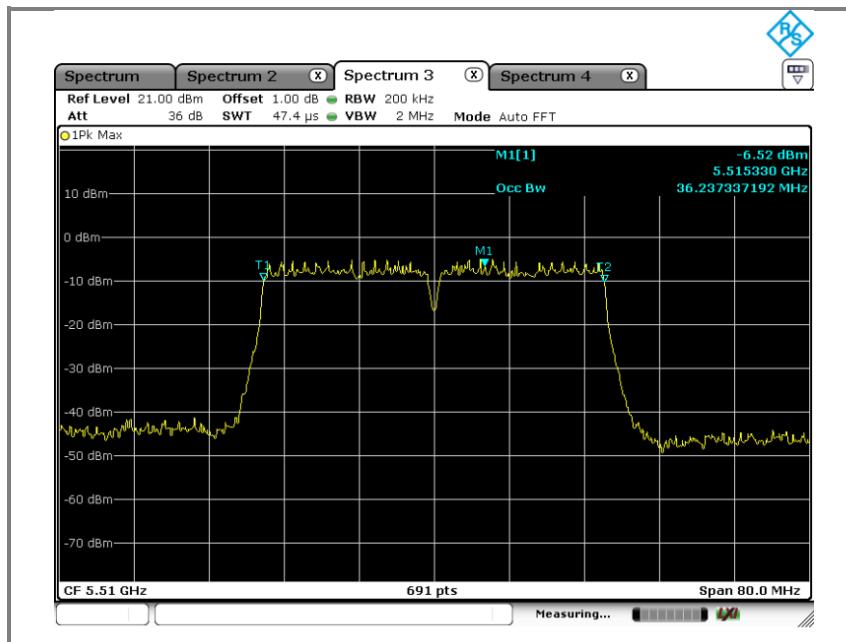
**C. High channel(5620 MHz)- 26 dB bandwidth**

**C. High channel(5620 MHz)– 99% bandwidth**


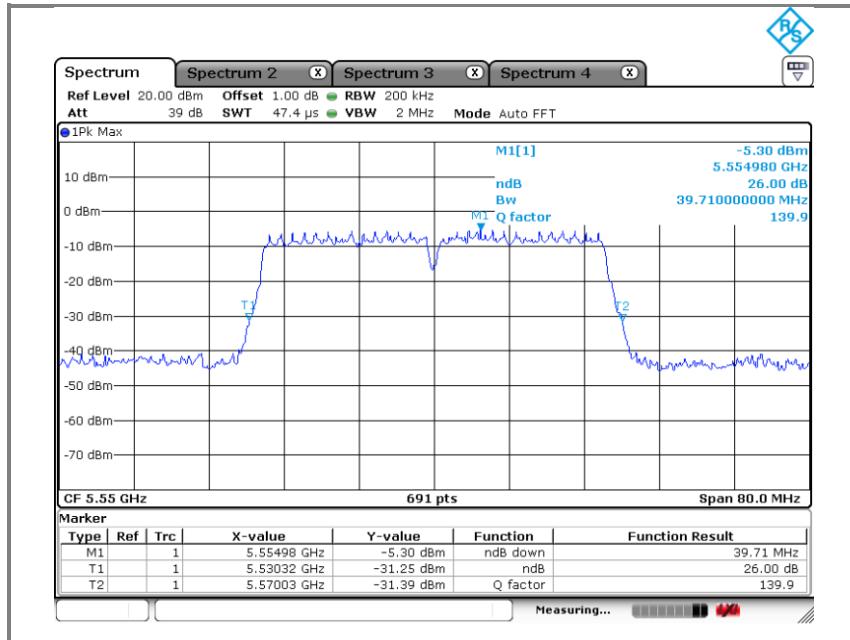
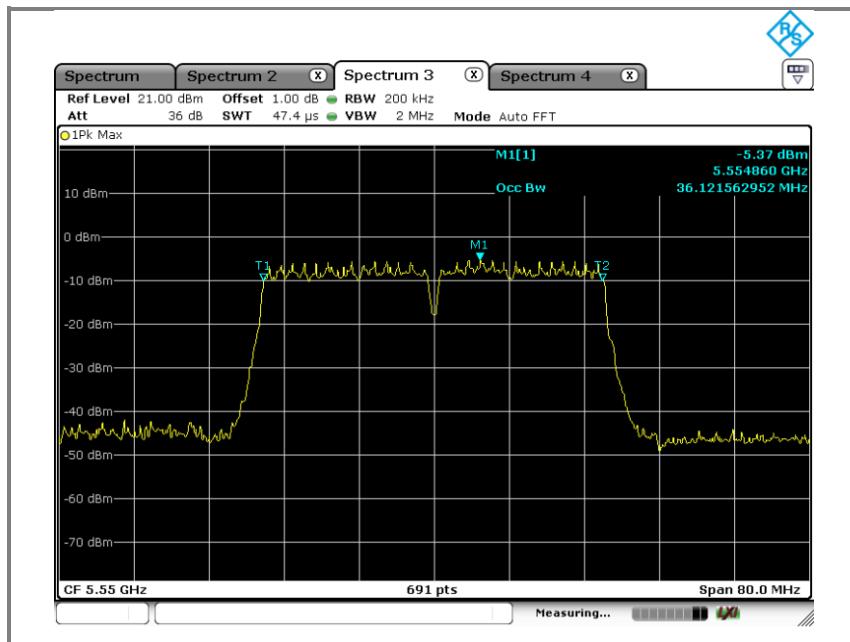
**Operation mode: U-NII-2C(n\_HT40)**

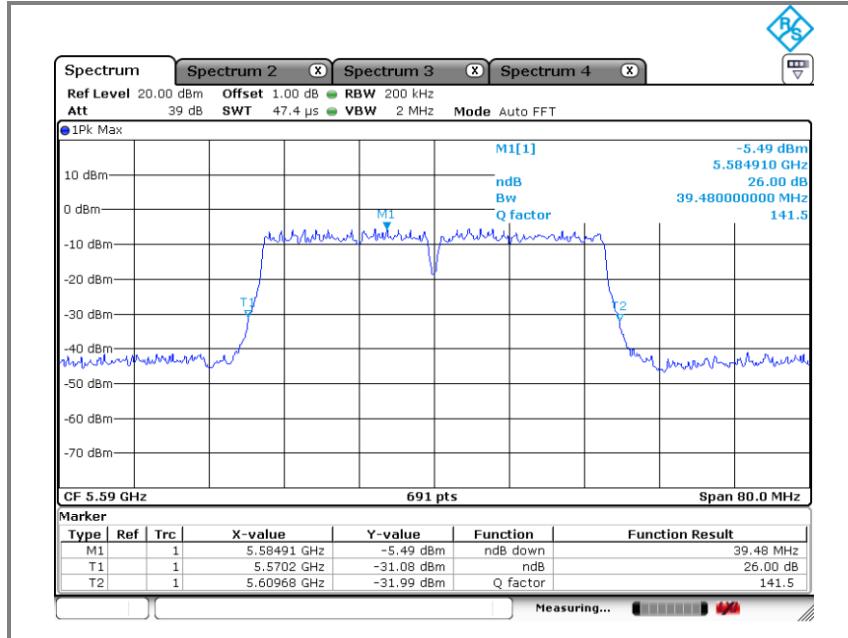
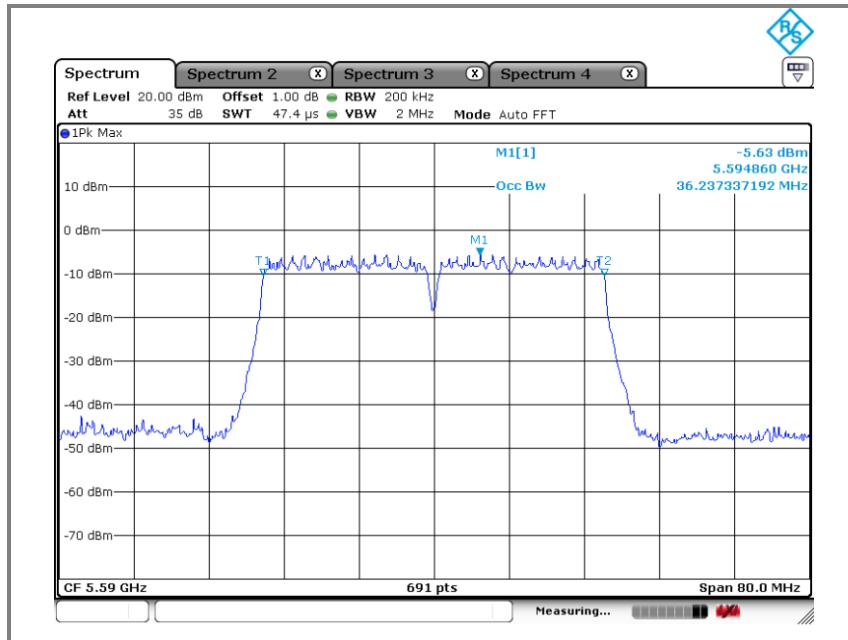
### A. Low channel(5510 MHz)- 26 dB bandwidth

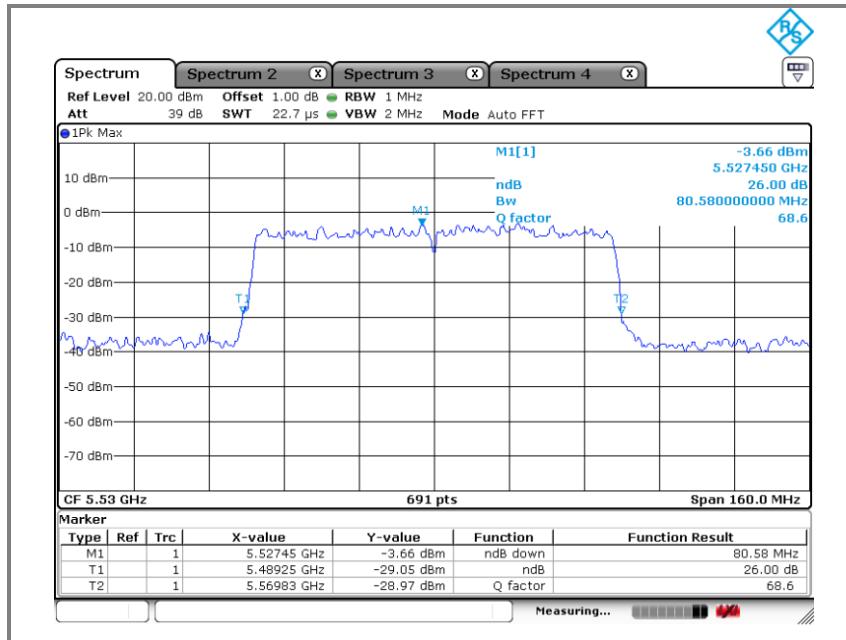
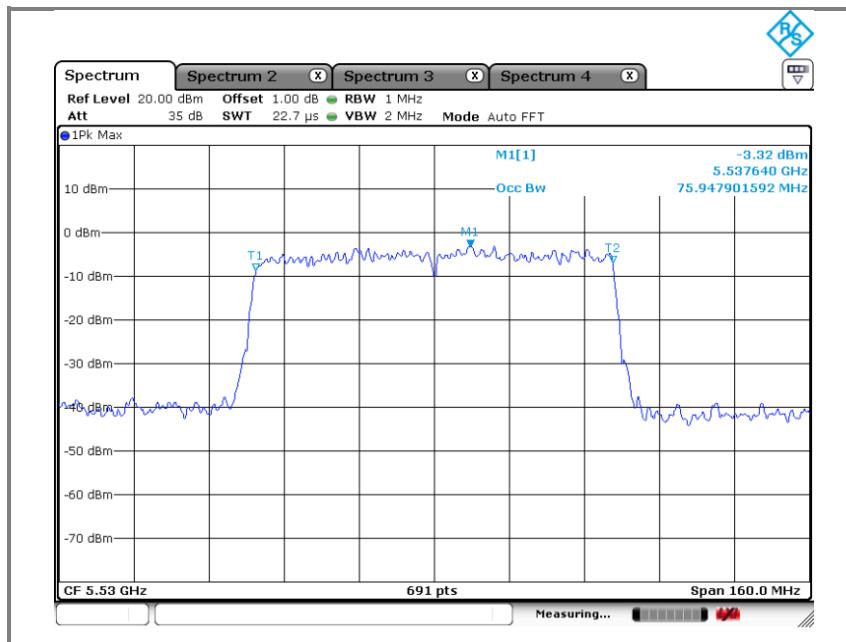


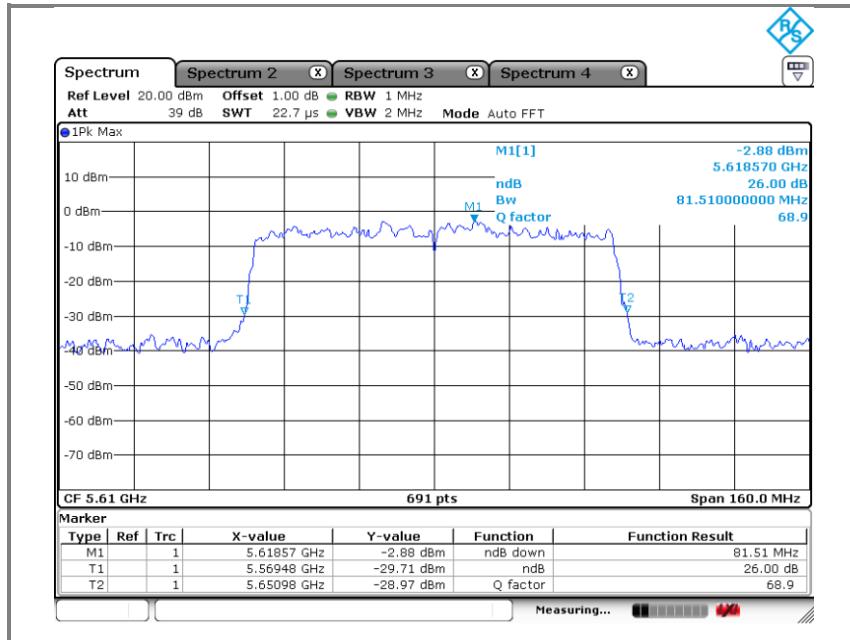
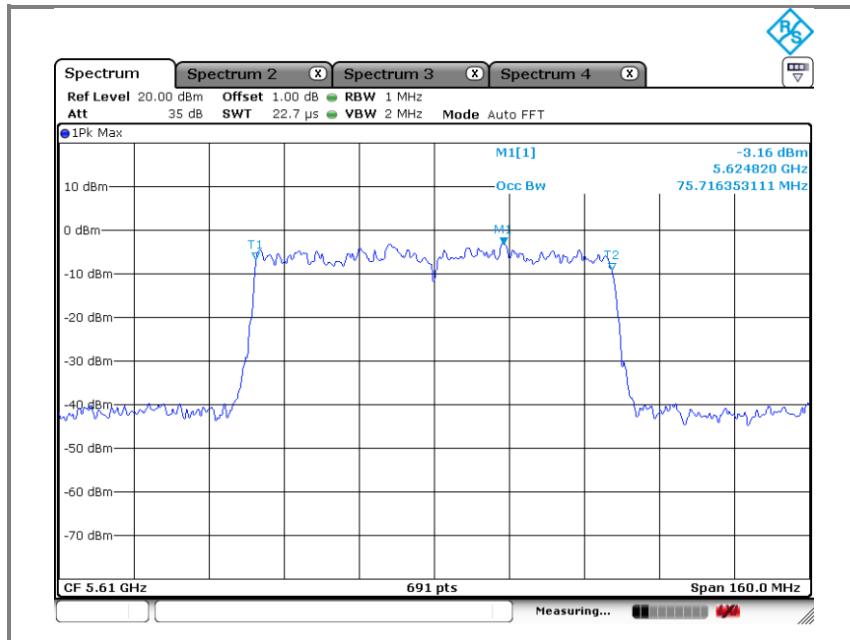
### A. Low channel(5510 MHz)– 99% bandwidth



**B. Middle channel(5550 MHz)- 26 dB bandwidth**

**B. Middle channel(5550 MHz)– 99% bandwidth**


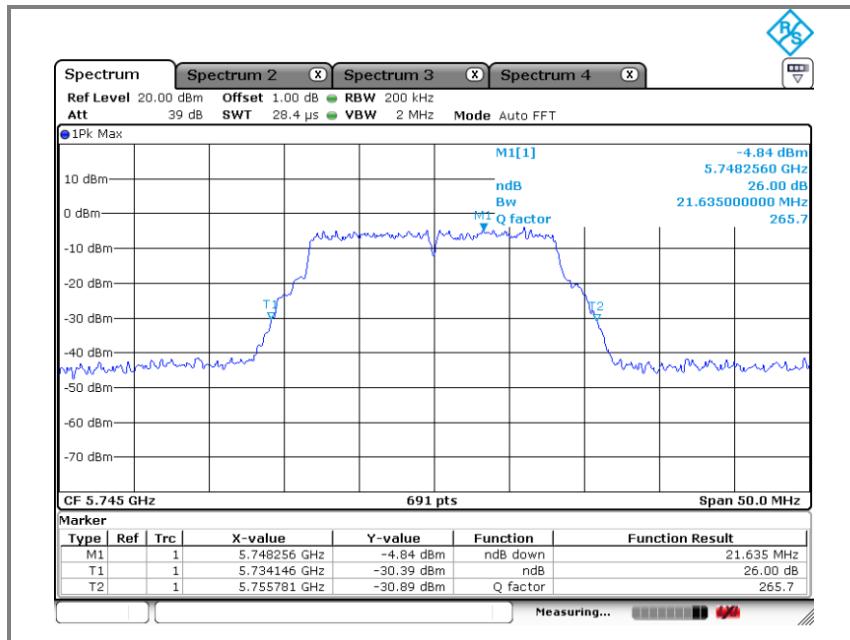
**C. High channel(5590 MHz)- 26 dB bandwidth**

**C. High channel(5590 MHz)- 99% bandwidth**


**Operation mode: U-NII-2C(VHT80)**
**A. Low channel(5530 MHz)- 26 dB bandwidth**

**A. Low channel(5530 MHz)– 99% bandwidth**


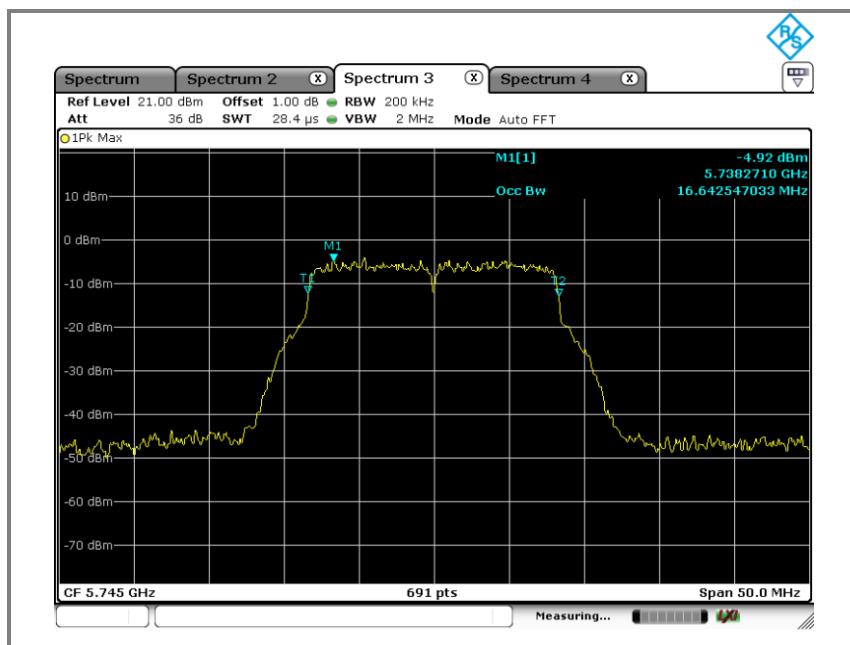
**A. High channel(5610 MHz)- 26 dB bandwidth**

**A. High channel(5610 MHz)– 99% bandwidth**


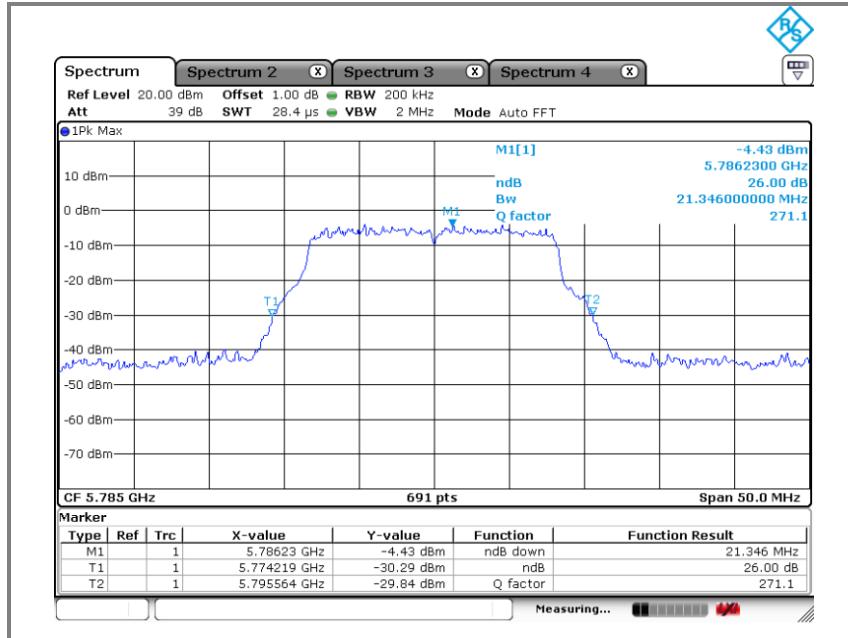
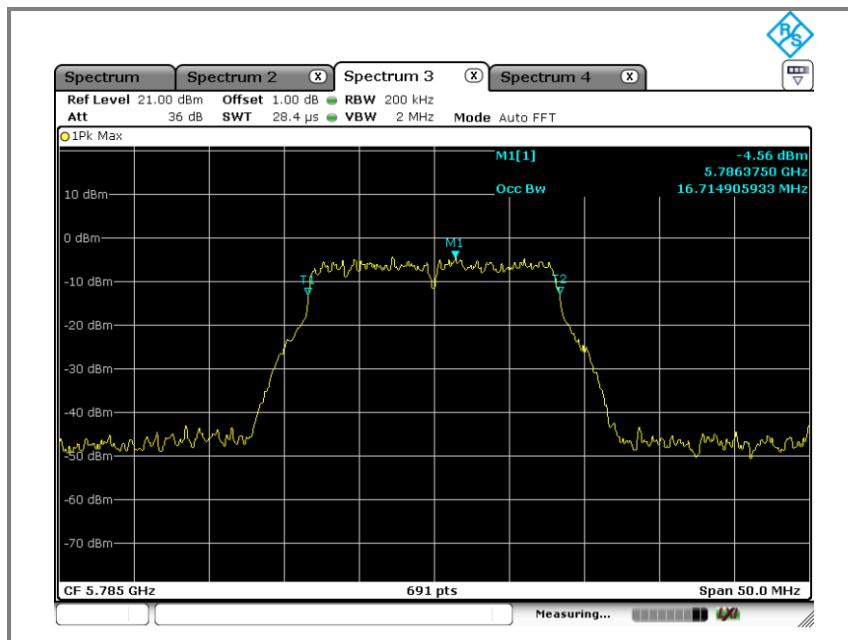
**Operation mode: U-NII-3(802.11a)**

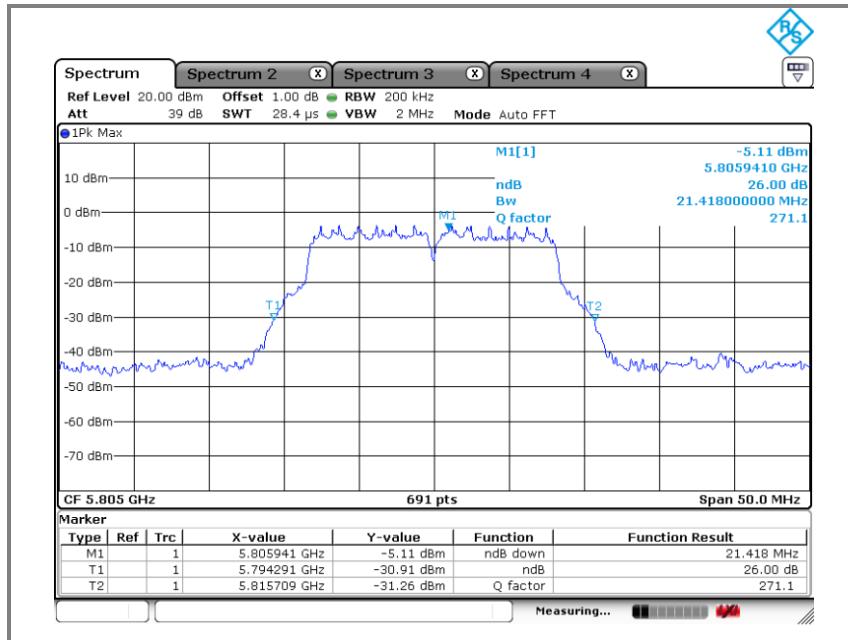
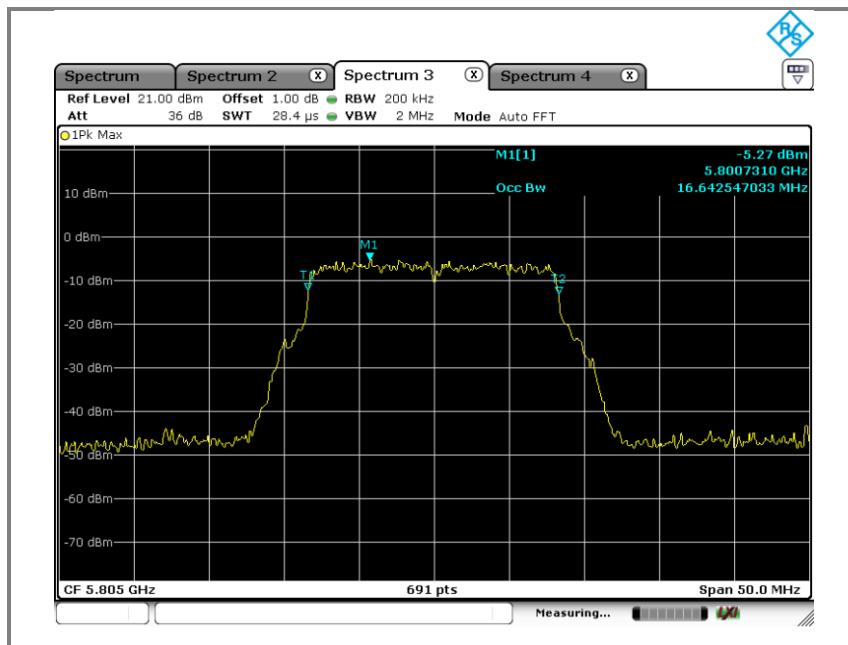
**A. Low channel(5745 MHz)- 26 dB bandwidth**



**A. Low channel(5745 MHz)– 99% bandwidth**

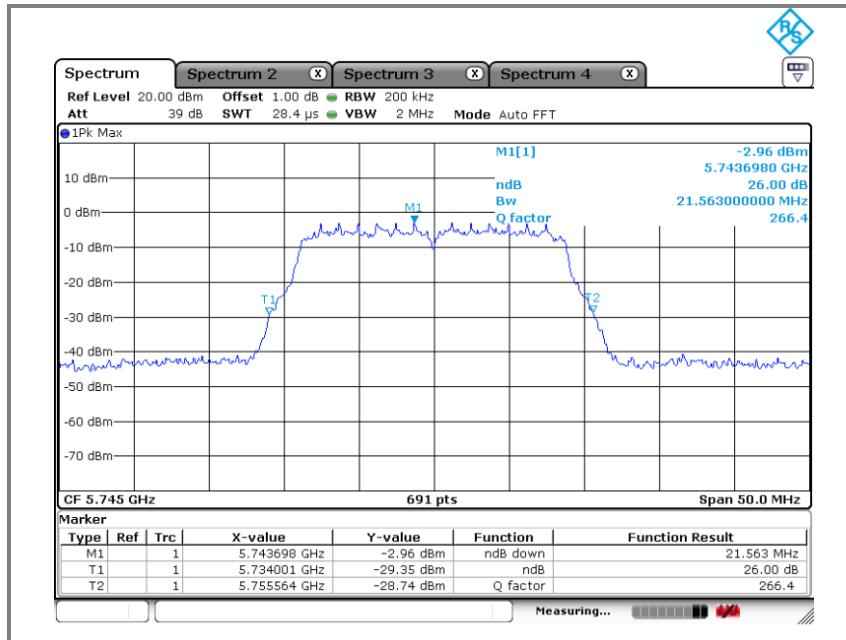


**B. Middle channel(5785 MHz)- 26 dB bandwidth**

**B. Middle channel(5785 MHz)– 99% bandwidth**


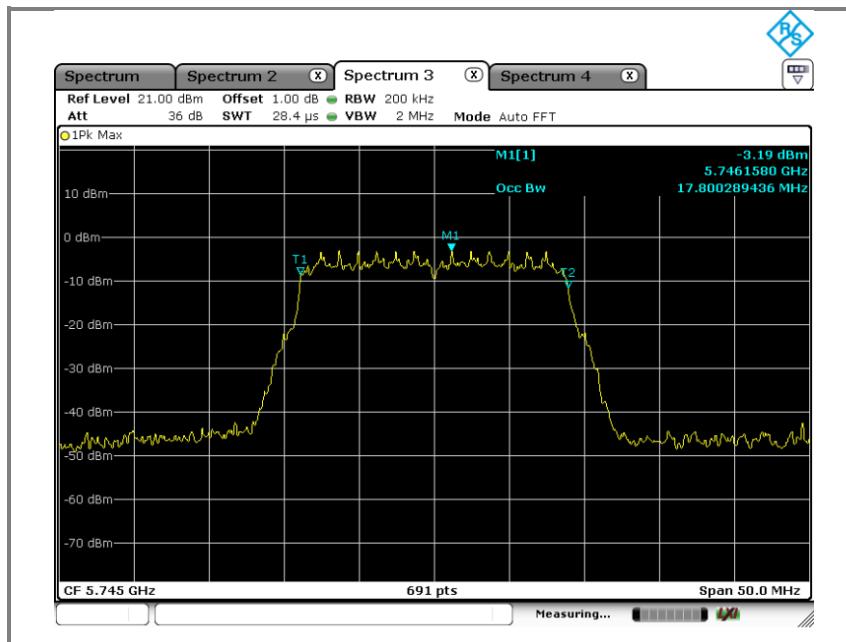
**C. High channel(5805 MHz)- 26 dB bandwidth**

**C. High channel(5805 MHz)– 99% bandwidth**


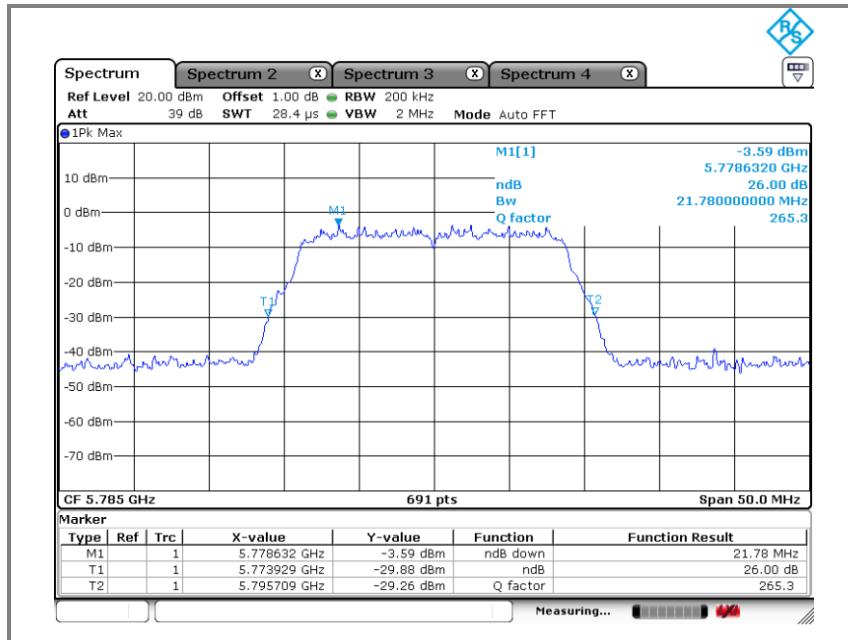
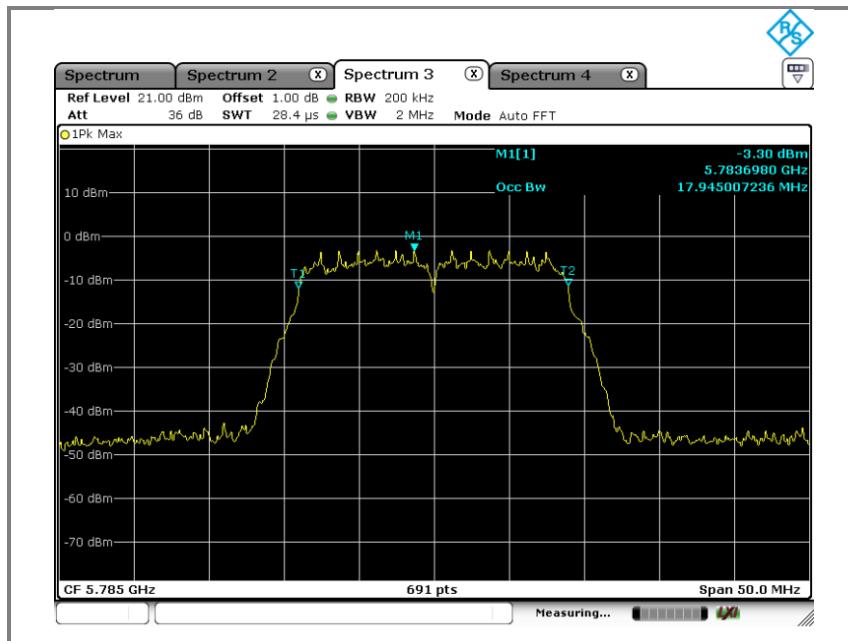
**Operation mode: U-NII-3(n\_HT20)**

### A. Low channel(5745 MHz)- 26 dB bandwidth

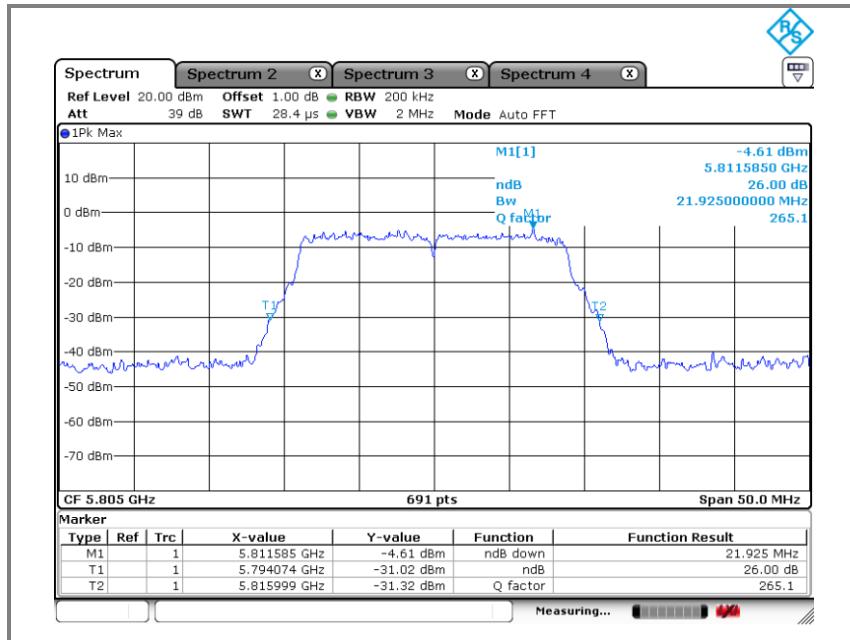


### A. Low channel(5745 MHz)- 99% bandwidth

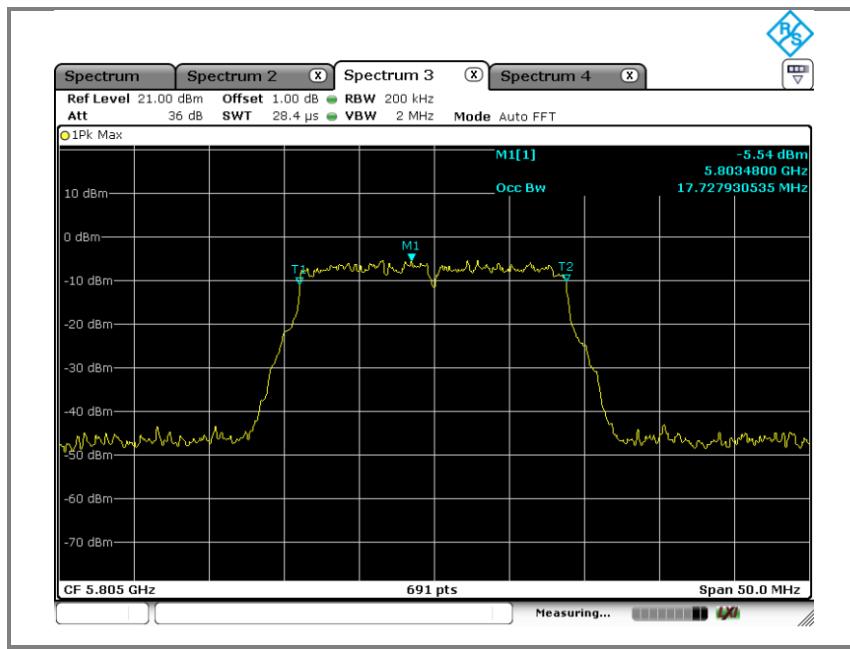


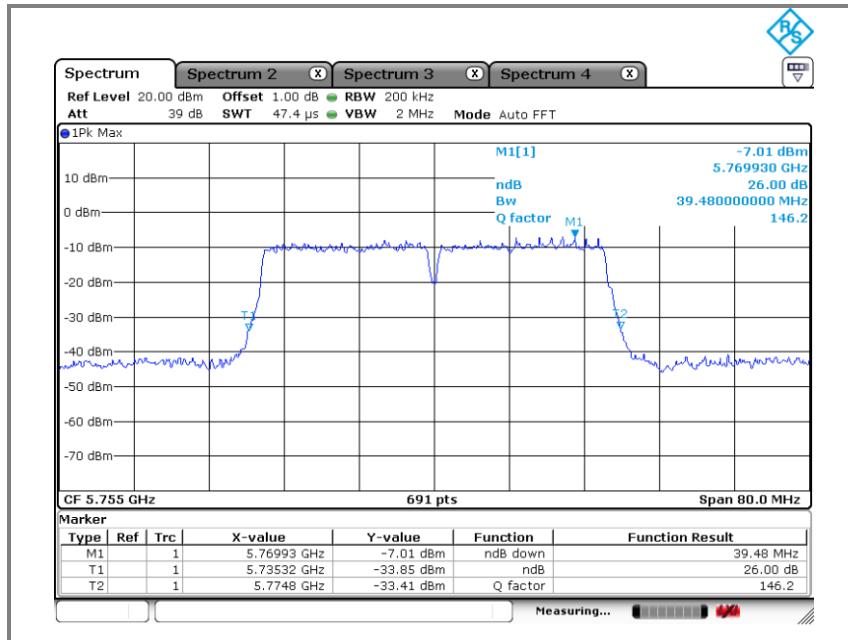
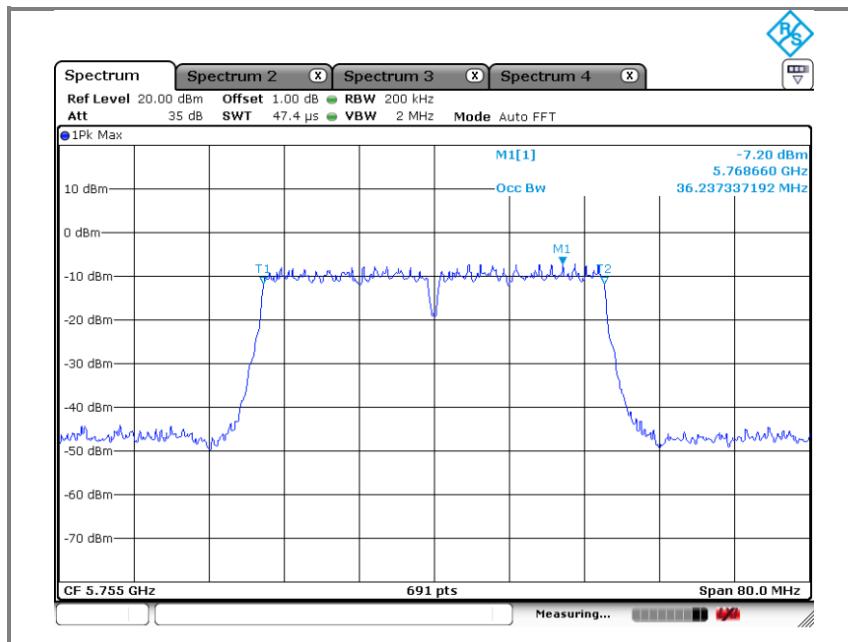
**B. Middle channel(5785 MHz)- 26 dB bandwidth**

**B. Middle channel(5785 MHz)– 99% bandwidth**


### C. High channel(5805 MHz)- 26 dB bandwidth

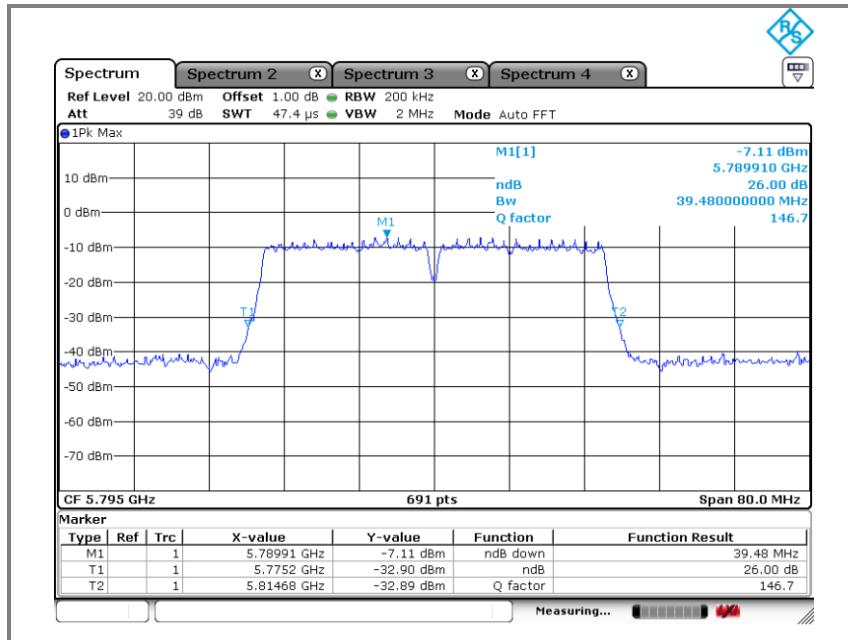


### C. High channel(5805 MHz)– 99% bandwidth

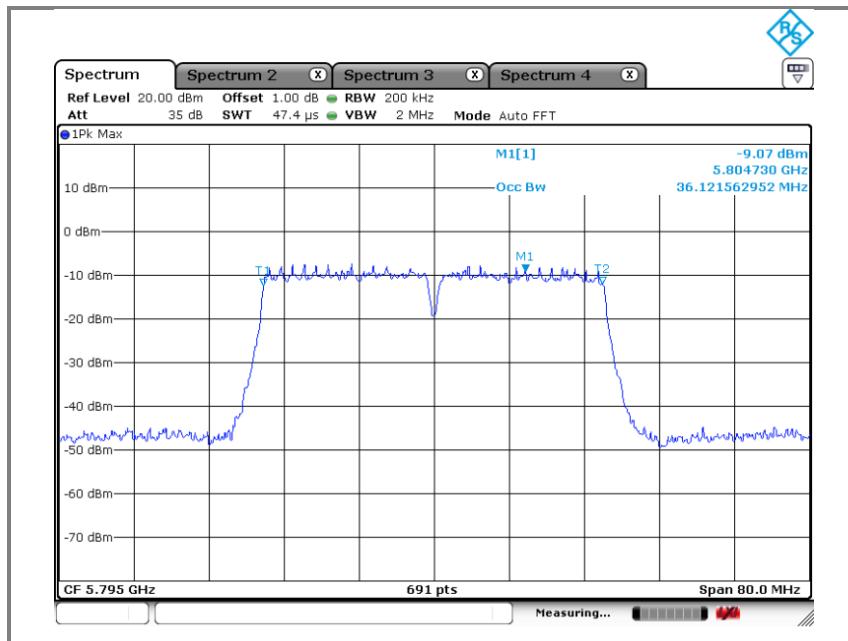


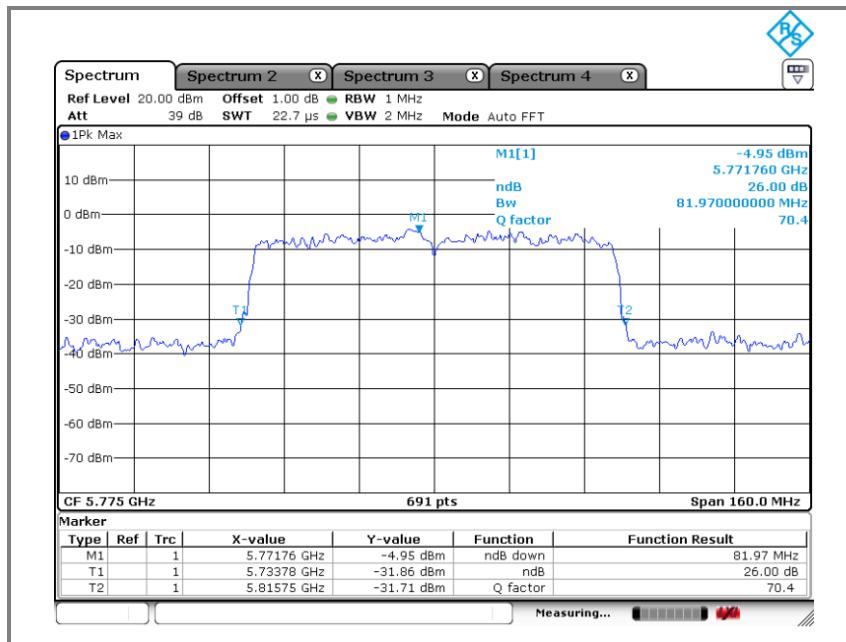
**Operation mode: U-NII-3(n\_HT40)**
**A. Low channel(5755 MHz)- 26 dB bandwidth**

**A. Low channel(5755 MHz)– 99% bandwidth**


### B. High channel(5795 MHz)- 26 dB bandwidth



### B. High channel(5795 MHz)– 99% bandwidth



**Operation mode: U-NII-3(VHT80)**
**A. Low channel(5775 MHz)- 26 dB bandwidth**

**A. Low channel(5775 MHz)– 99% bandwidth**
