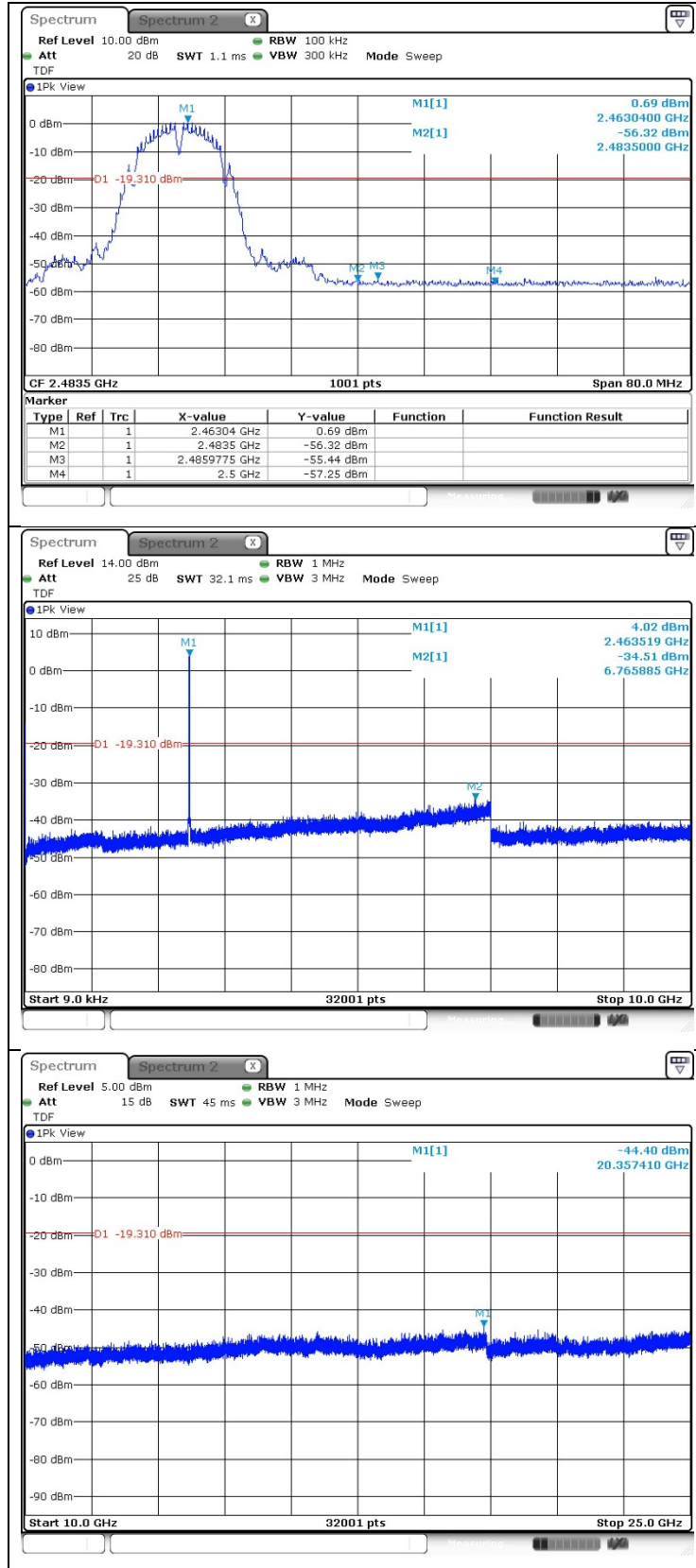
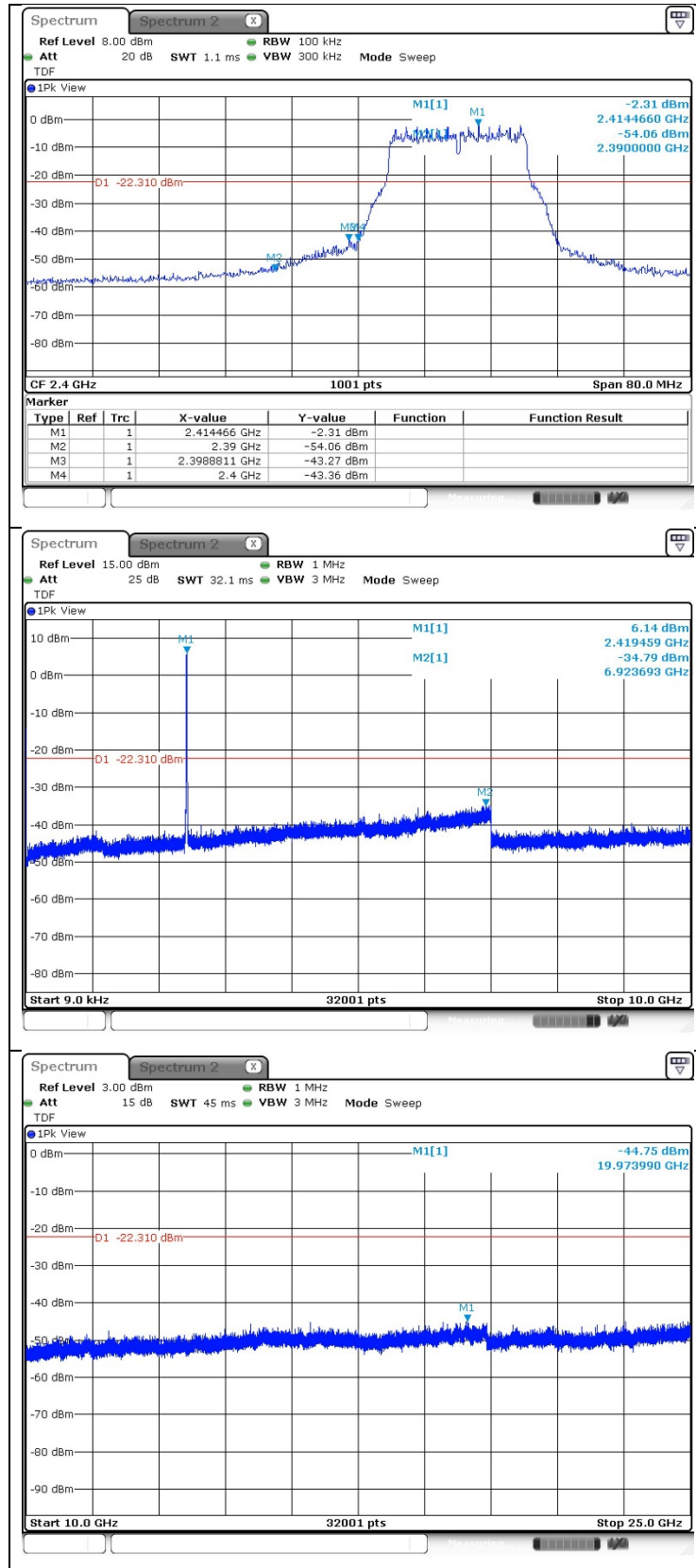


High Channel

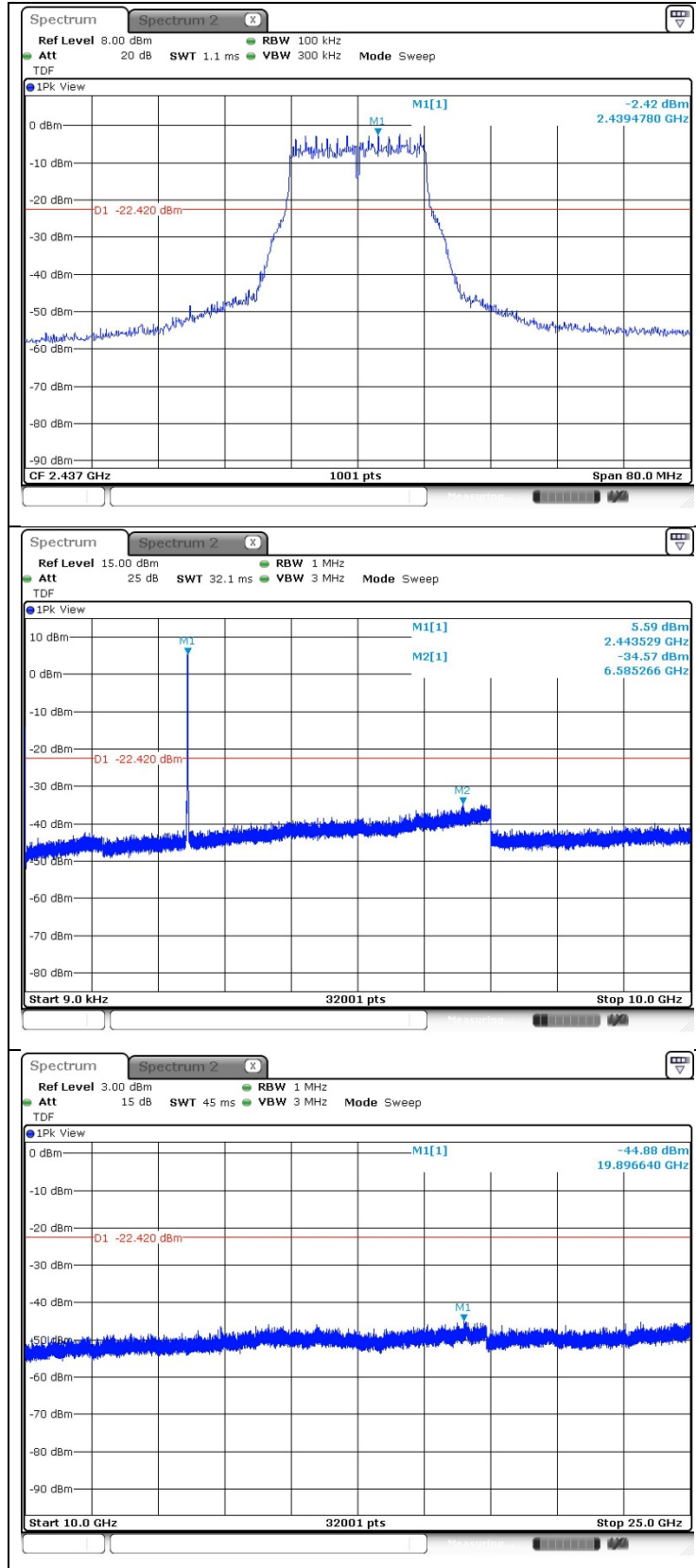


OFDM: 802.11g (54 Mbps)

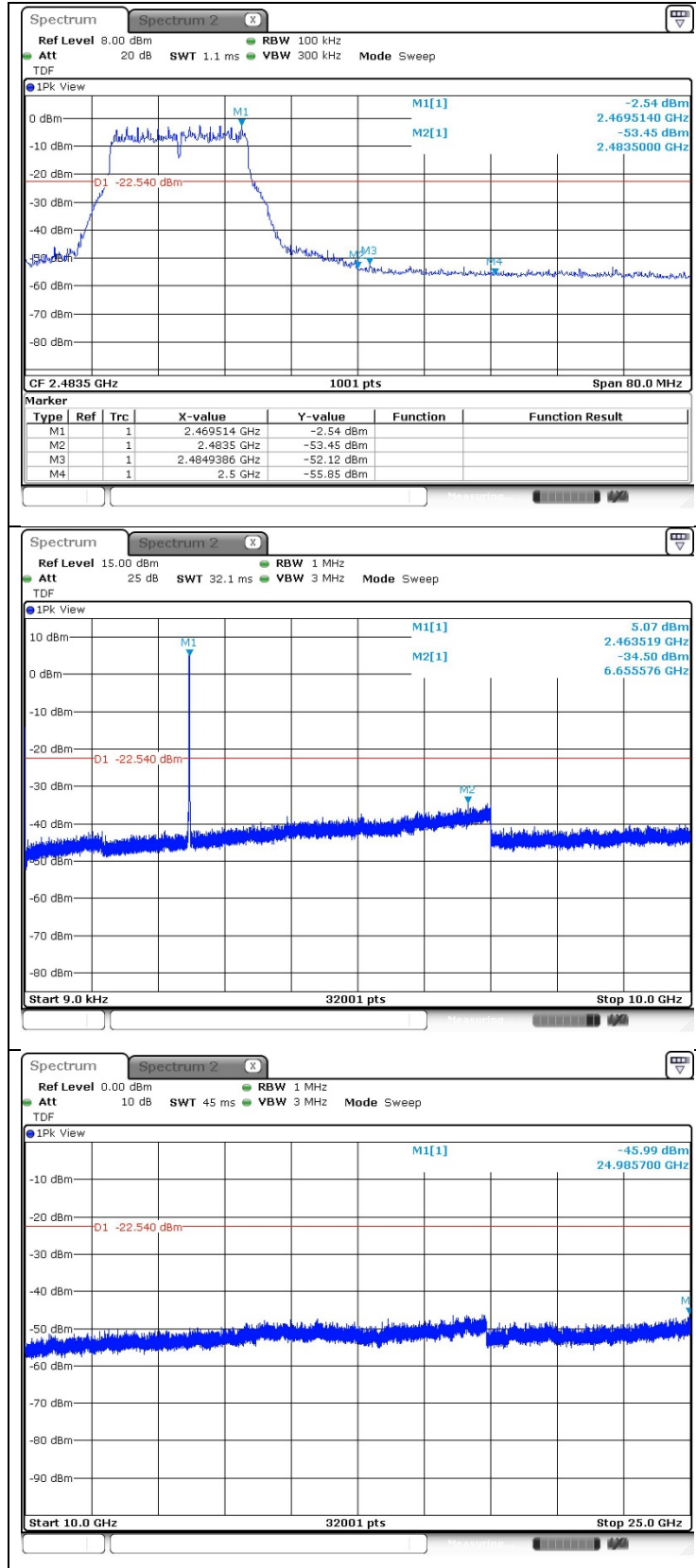
Low Channel



Middle Channel

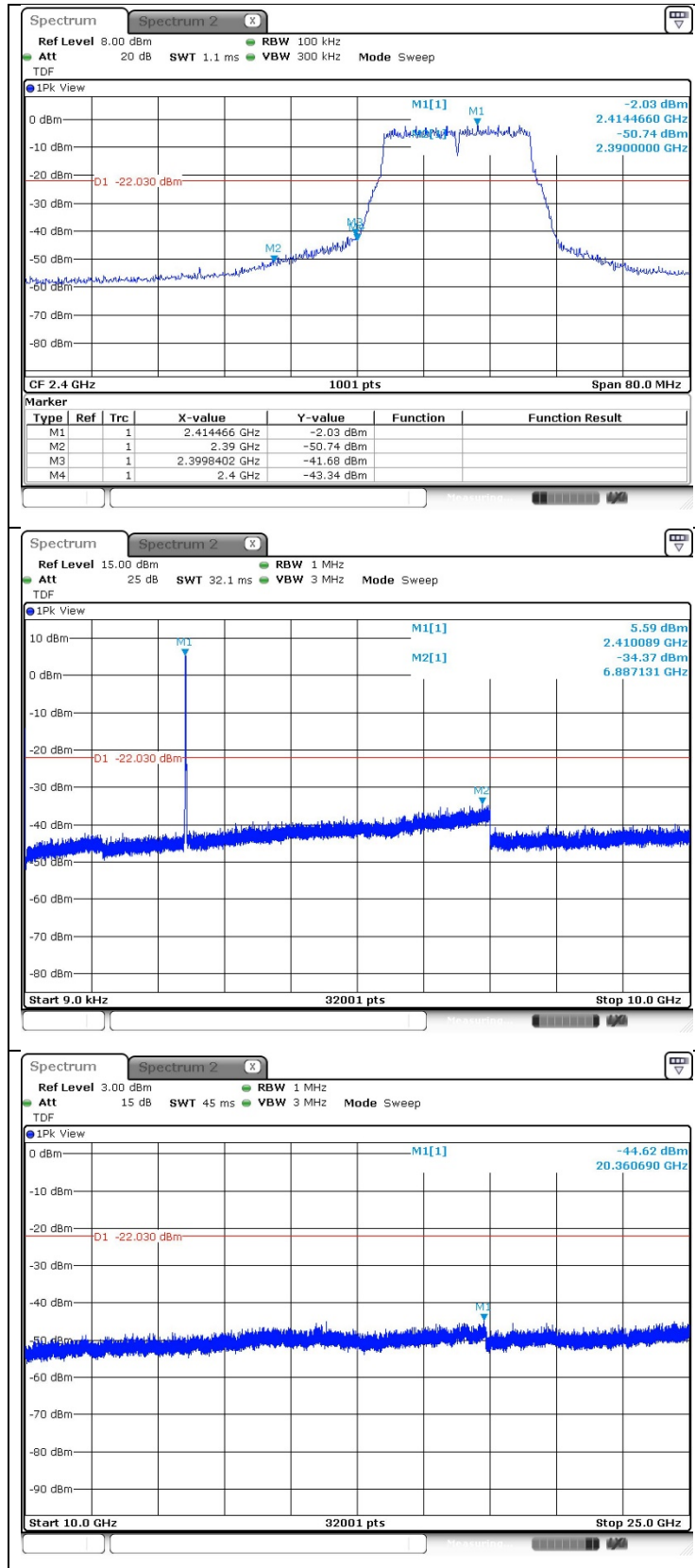


High Channel

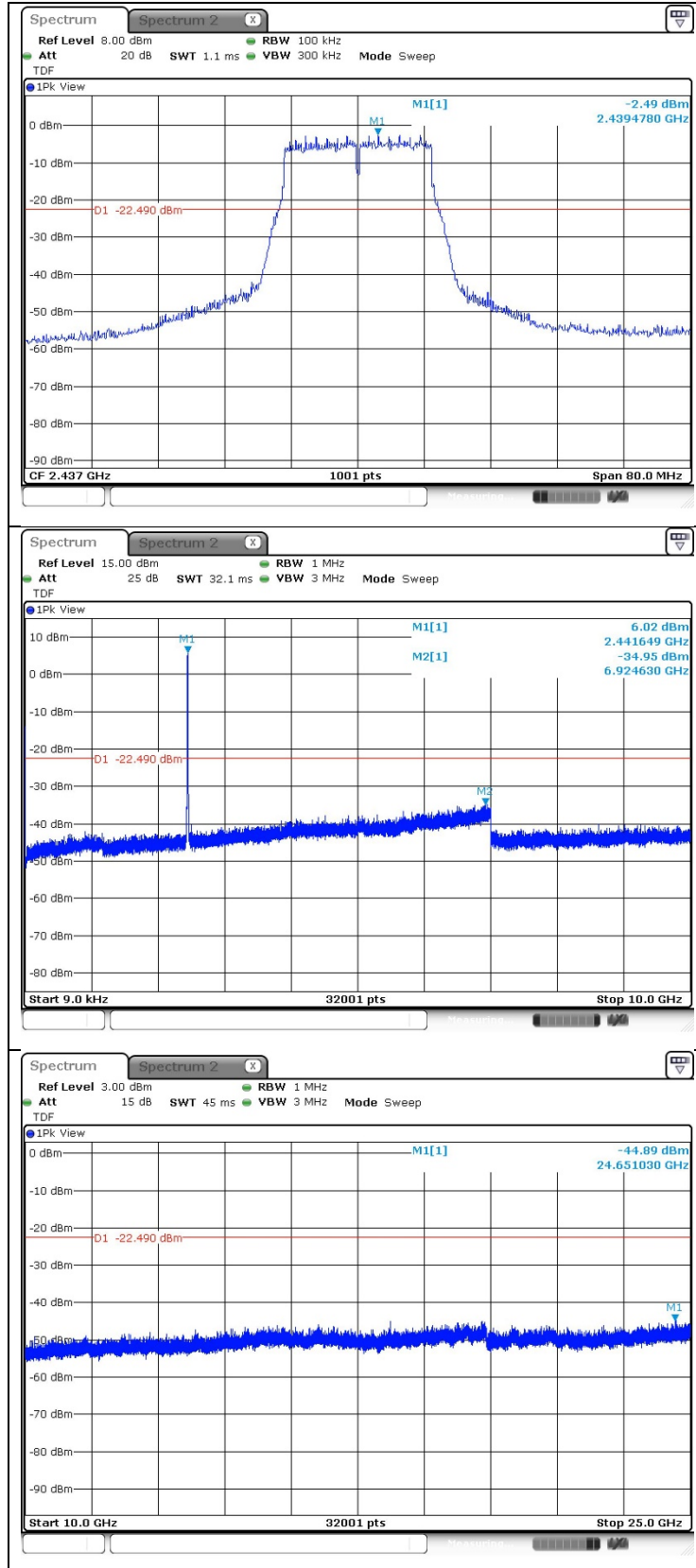


OFDM: 802.11n_HT20 (MCS6)

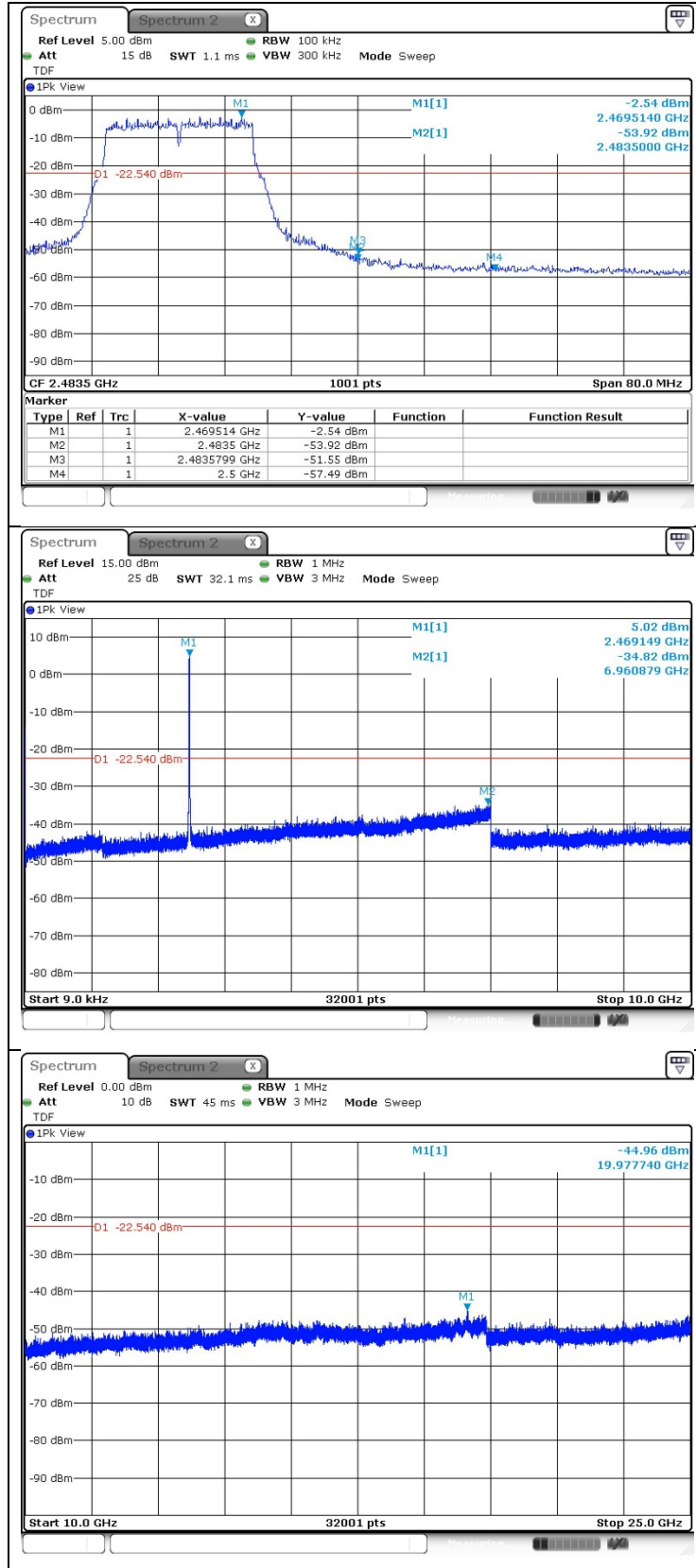
Low Channel



Middle Channel

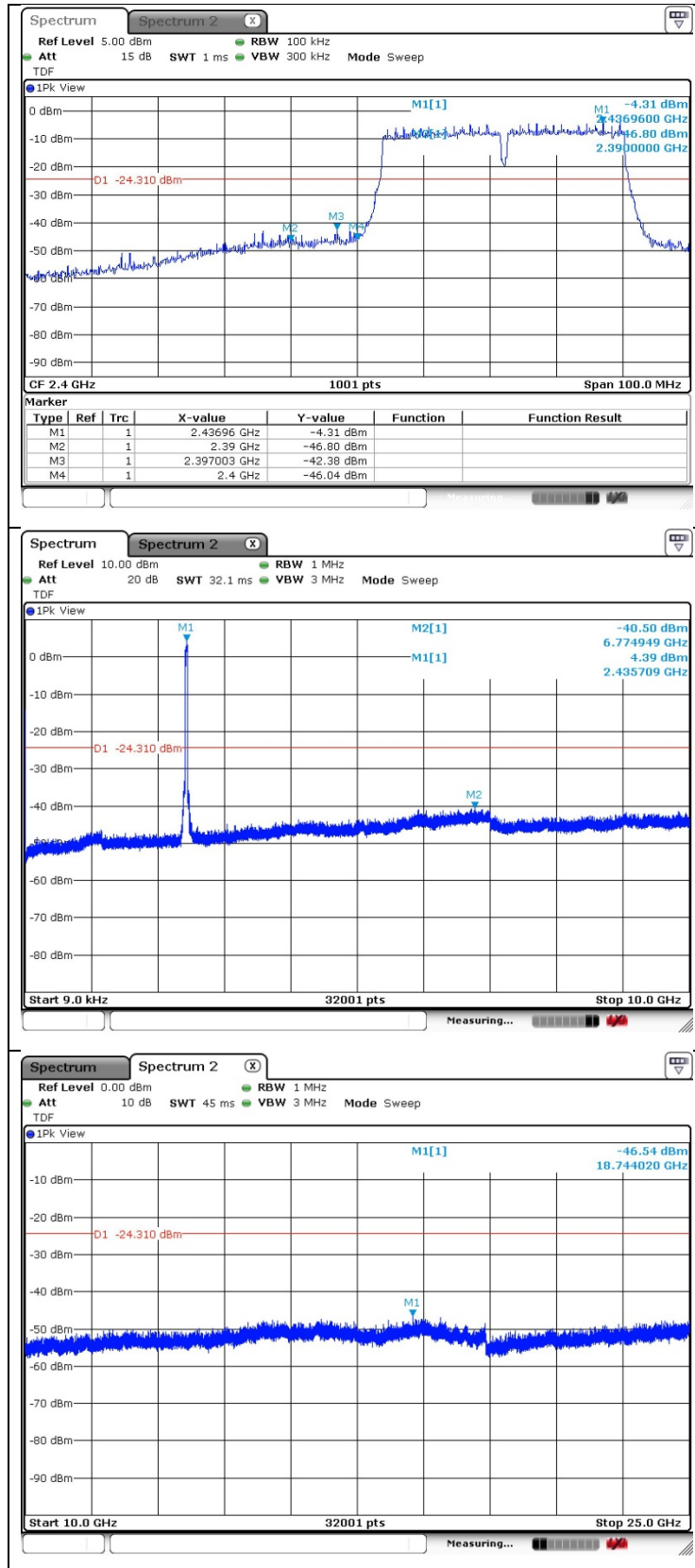


High Channel

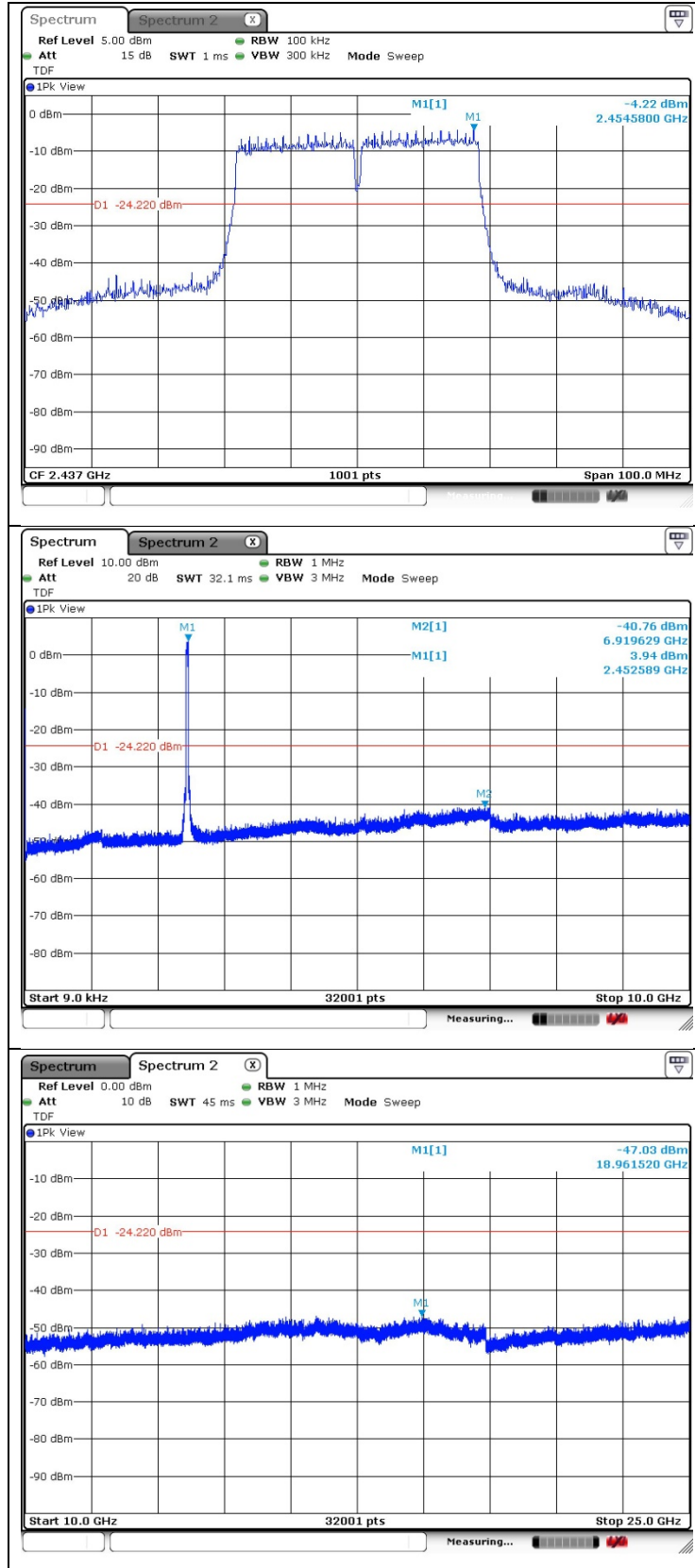


OFDM: 802.11n_HT40 (MCS4)

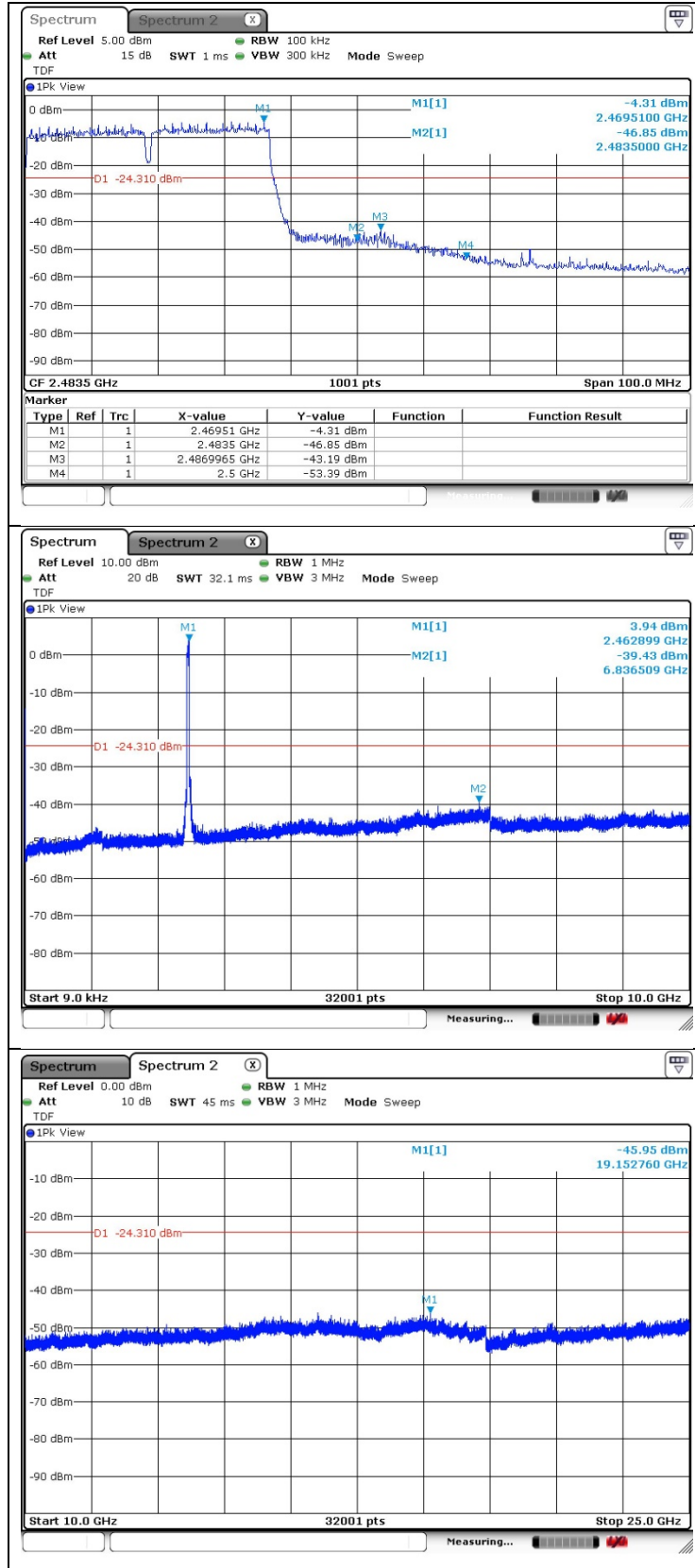
Low Channel



Middle Channel



High Channel



3. 6 dB Bandwidth

3.1. Test Setup



3.2. Limit

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902-928 MHz, 2 400-2 483.5 MHz, and 5 725-5 850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

3.3. Test Procedure

6 dB Bandwidth

The test follows section 11.8 DTS bandwidth of ANSI C63.10-2013.
 Tests performed using section 11.8.1 Option 1.

- Option 1:

1. Set RBW to = 100 kHz.
2. Set the VBW $\geq [3 \times \text{RBW}]$.
3. Detector = peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4. Test Results

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

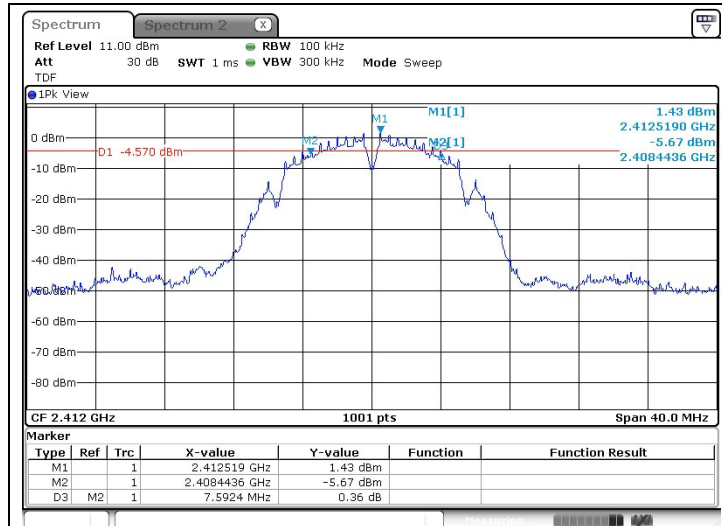
Operation Mode	Data Rate (Mbps)	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (kHz)
DSSS (802.11b)	1	Low	2 412	7.592	500
		Middle	2 437	8.152	
		High	2 462	8.152	
OFDM (802.11g)	54	Low	2 412	16.424	
		Middle	2 437	16.464	
		High	2 462	16.424	
OFDM (802.11n_HT20)	MCS6	Low	2 412	17.782	
		Middle	2 437	17.782	
		High	2 462	17.822	
OFDM (802.11n_HT40)	MCS4	Low	2 422	36.524	
		Middle	2 437	36.524	
		High	2 452	36.603	

- Test plots

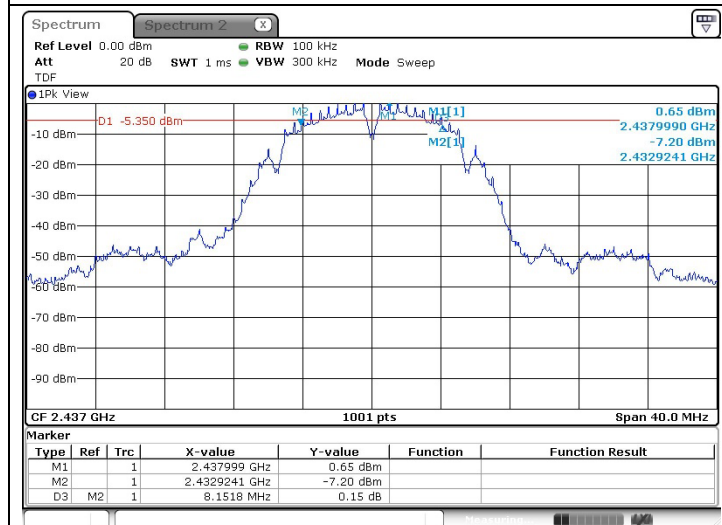
6 dB Bandwidth

DSSS: 802.11b

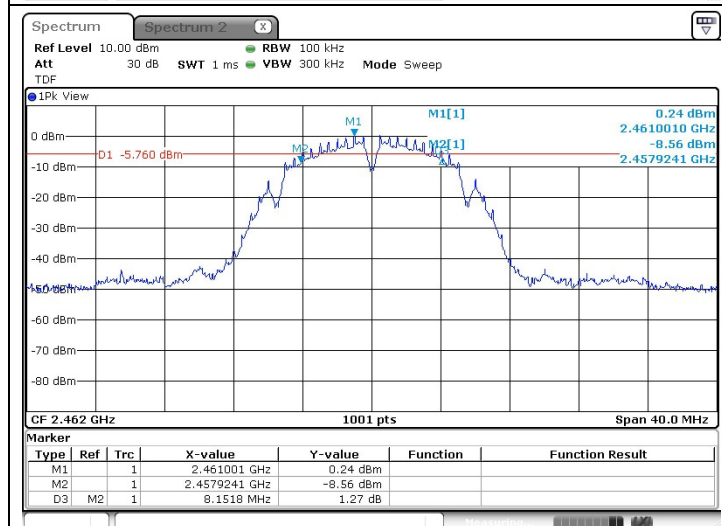
Low Channel



Middle Channel

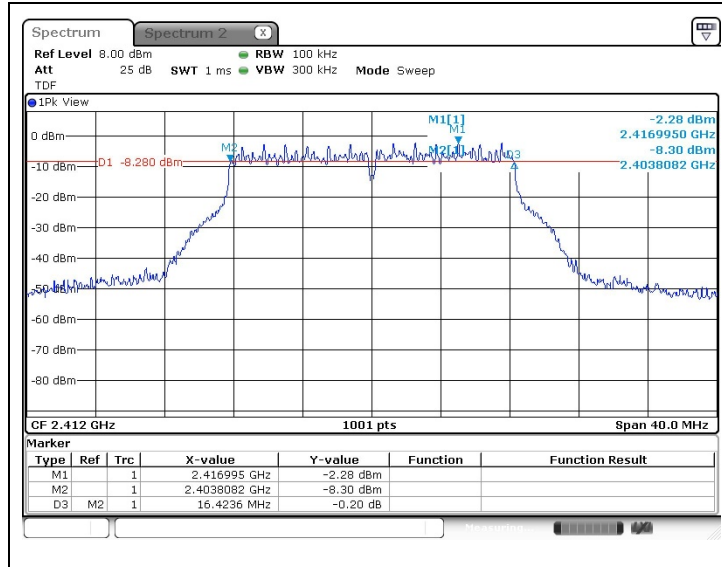


High Channel

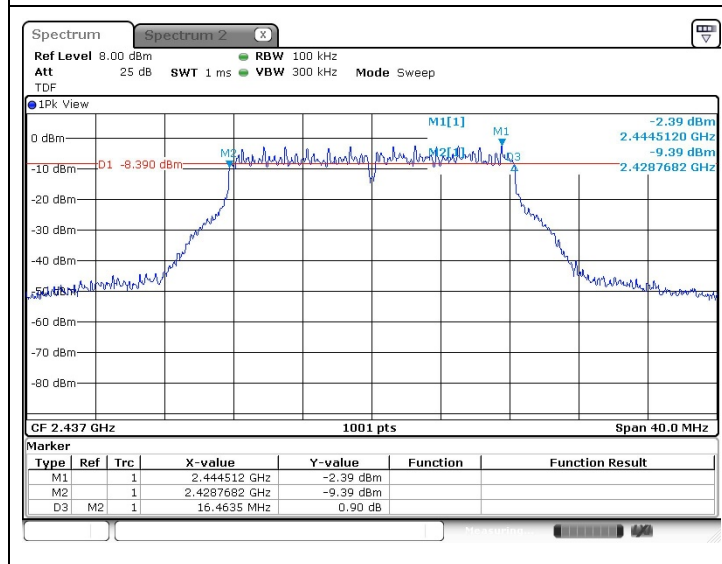


OFDM: 802.11g

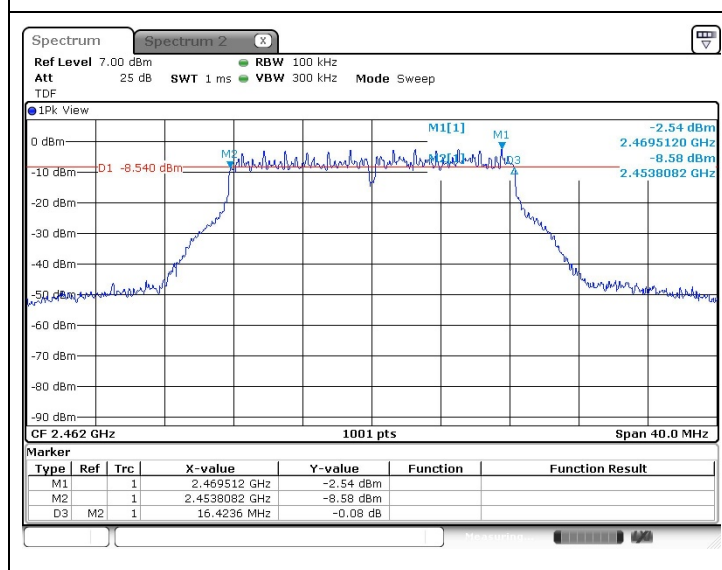
Low Channel



Middle Channel

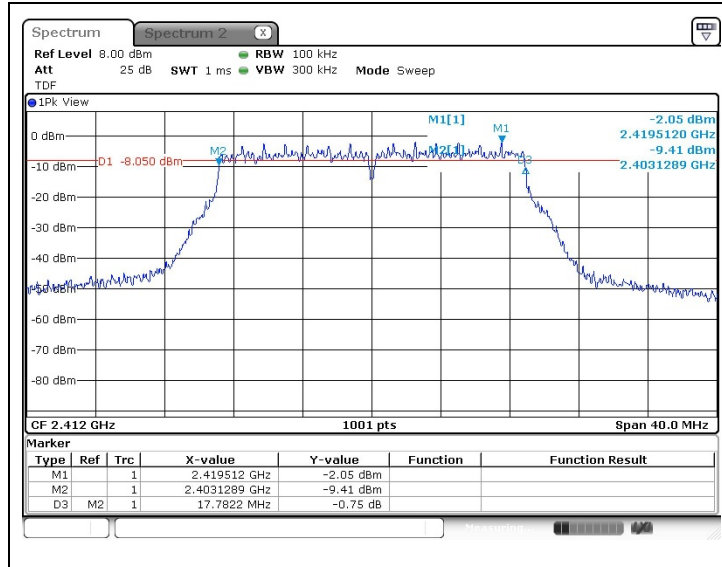


High Channel

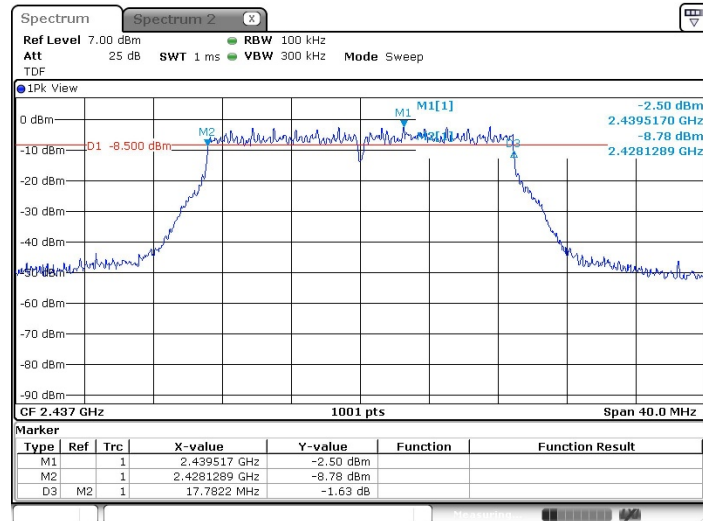


OFDM: 802.11n_HT20

Low Channel



Middle Channel



High Channel

