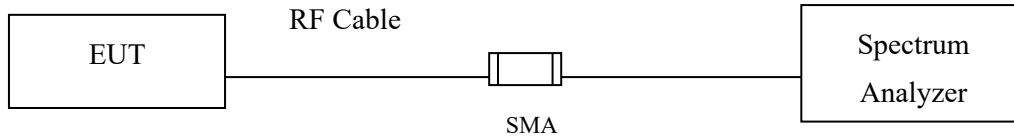


7. 6 dB Occupied Bandwidth

7.1. Test Setup



7.2. Limits

For the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz

7.3. Test Procedure

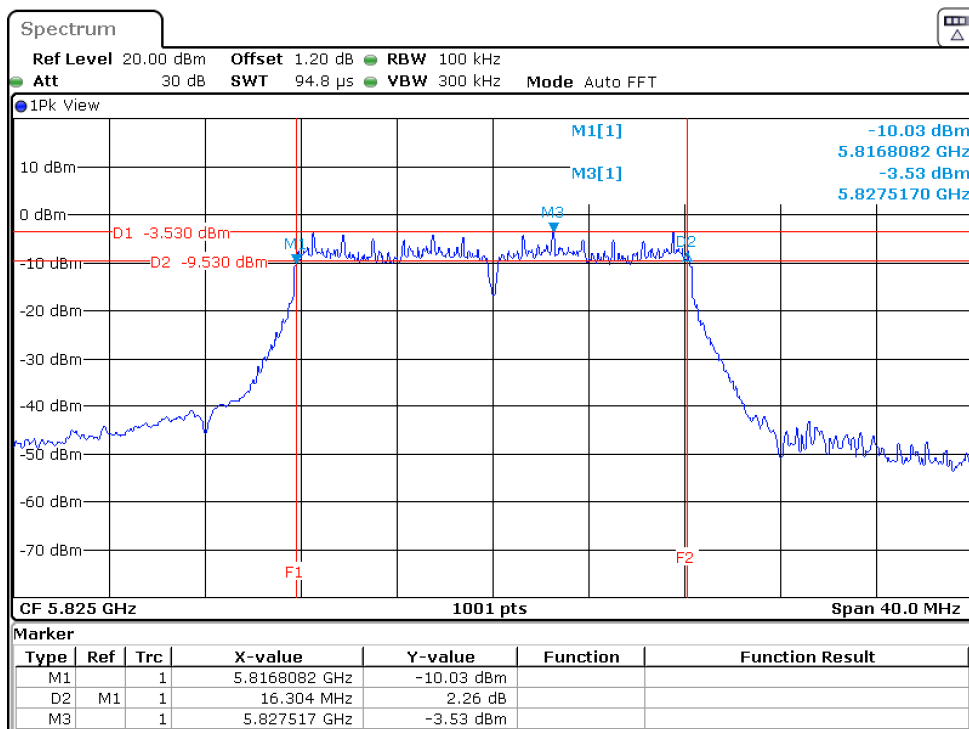
The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Test Result of 6 dB Occupied Bandwidth

Product : PanaCast 50 Video Bar System
 Test Item : 6 dB Occupied Bandwidth Data
 Test Mode : Transmit (802.11a)
 Test Date : 2023/03/27

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	16344	>500	Pass
157	5785	16304	>500	Pass
165	5825	16304	>500	Pass

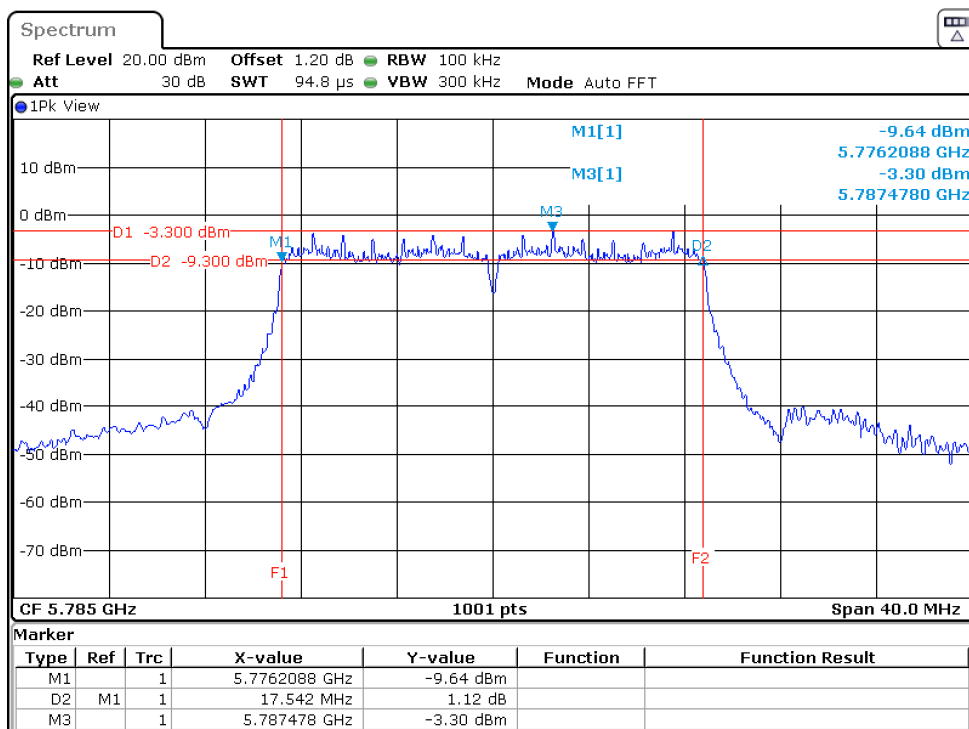
Figure Channel 165



Product : PanaCast 50 Video Bar System
 Test Item : 6 dB Occupied Bandwidth Data
 Test Mode : Transmit (802.11n-20MHz)
 Test Date : 2023/03/27

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	17542	>500	Pass
157	5785	17542	>500	Pass
165	5825	17582	>500	Pass

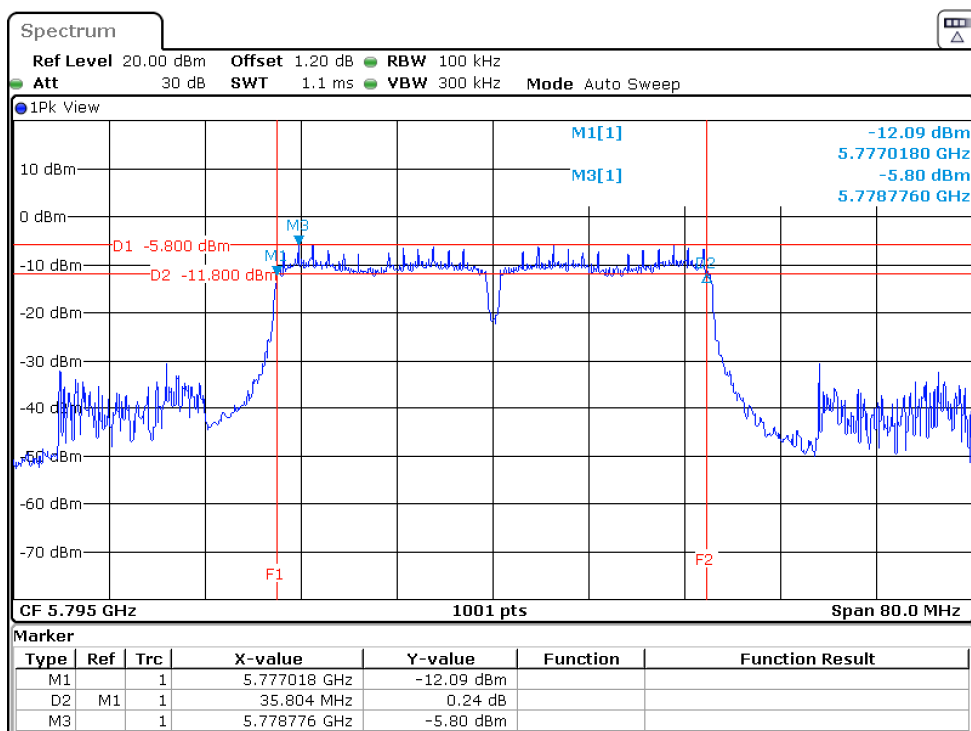
Figure Channel 157



Product : PanaCast 50 Video Bar System
 Test Item : 6 dB Occupied Bandwidth Data
 Test Mode : Transmit (802.11n-40MHz)
 Test Date : 2023/03/27

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	35804	>500	Pass
159	5795	35804	>500	Pass

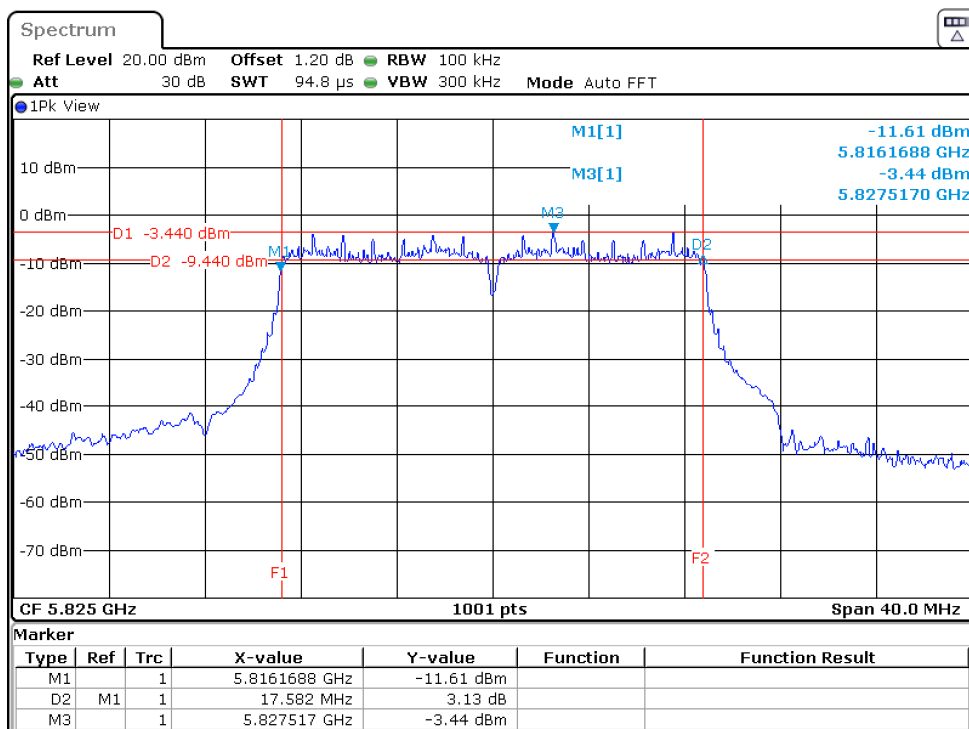
Figure Channel 159



Product : PanaCast 50 Video Bar System
 Test Item : 6 dB Occupied Bandwidth Data
 Test Mode : Transmit (802.11ac-20MHz)
 Test Date : 2023/03/27

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	17582	>500	Pass
157	5785	17582	>500	Pass
165	5825	17582	>500	Pass

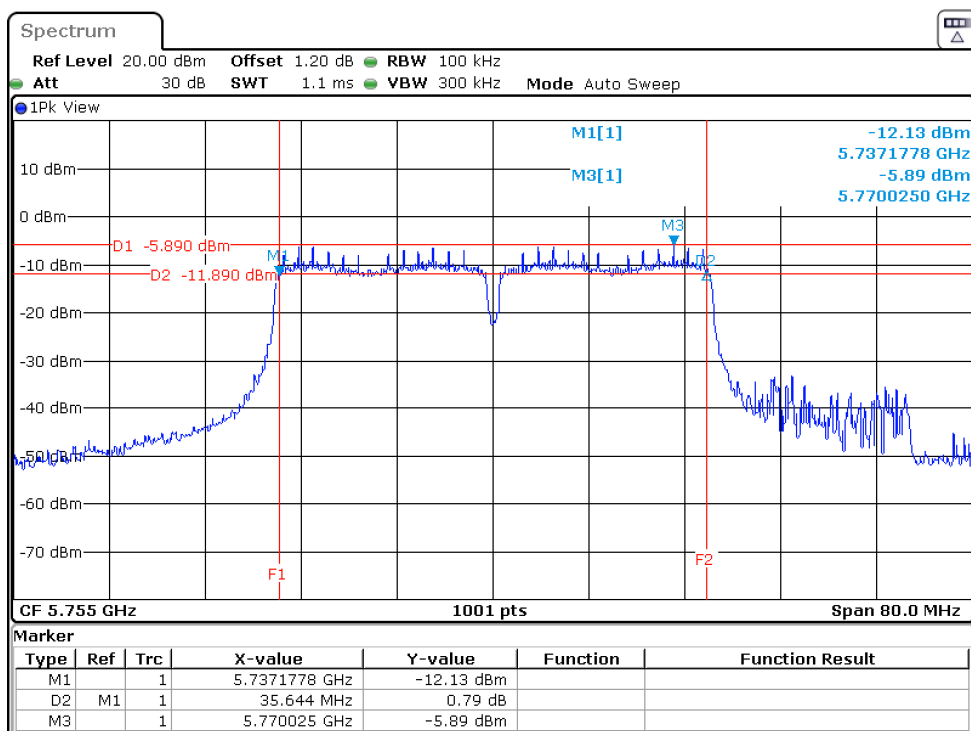
Figure Channel 165



Product : PanaCast 50 Video Bar System
 Test Item : 6 dB Occupied Bandwidth Data
 Test Mode : Transmit (802.11ac-40MHz)
 Test Date : 2023/03/27

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	35644	>500	Pass
159	5795	35804	>500	Pass

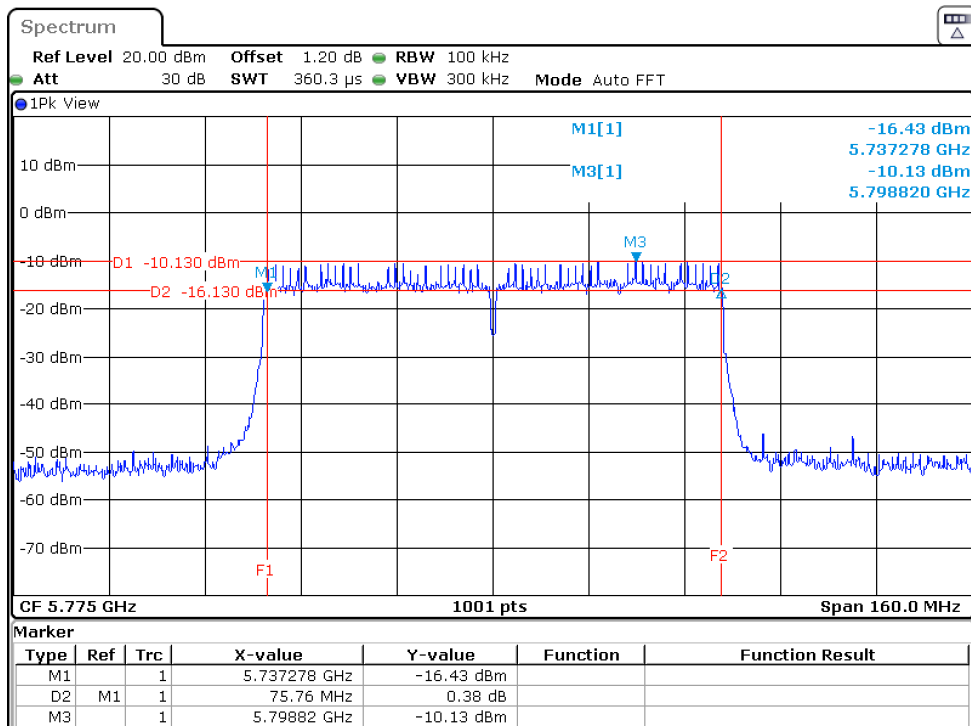
Figure Channel 151



Product : PanaCast 50 Video Bar System
 Test Item : 6 dB Occupied Bandwidth Data
 Test Mode : Transmit (802.11ac-80MHz)
 Test Date : 2023/03/27

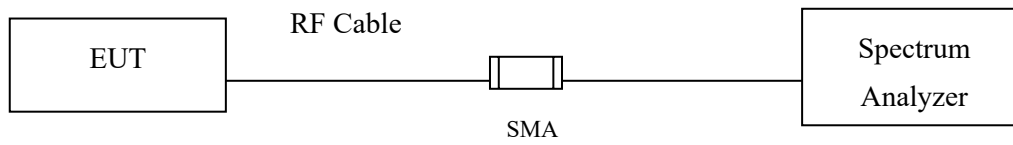
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	75760	>500	Pass

Figure Channel 155



8. Duty Cycle

8.1. Test Setup



8.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to U-NII test procedure of KDB789033 for compliance to FCC 47CFR 15.407 requirements.

8.3. Test Result of Duty Cycle

Product : PanaCast 50 Video Bar System
Test Item : Duty Cycle
Test Mode : Transmit

Duty Cycle Formula:

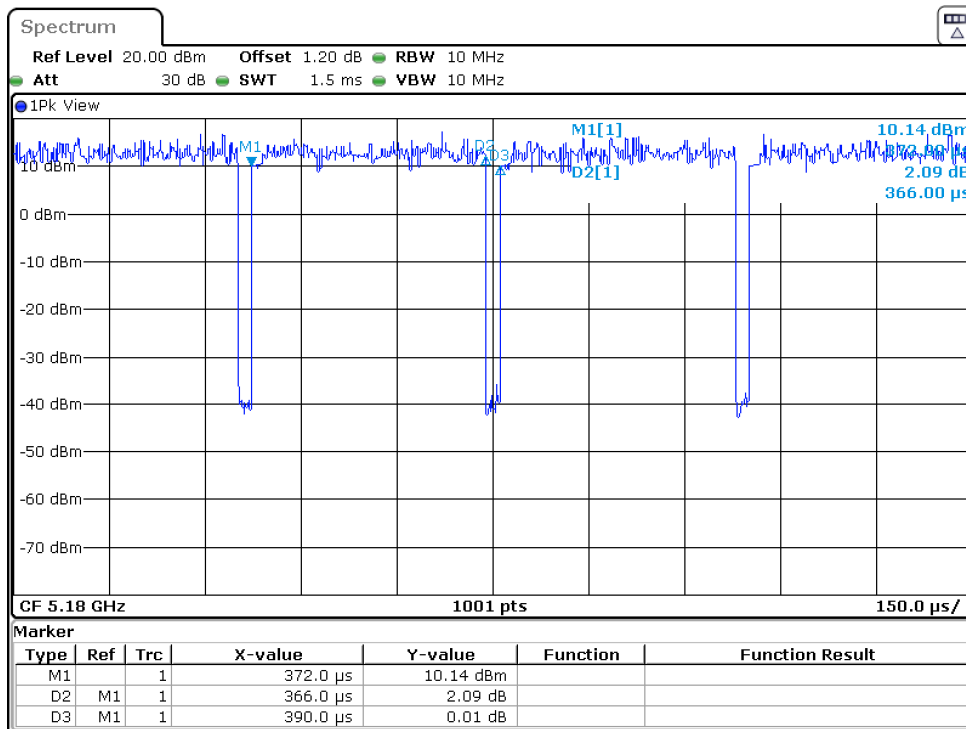
Duty Cycle = Ton / (Ton + Toff)

Duty Factor = 10 Log (1/Duty Cycle)

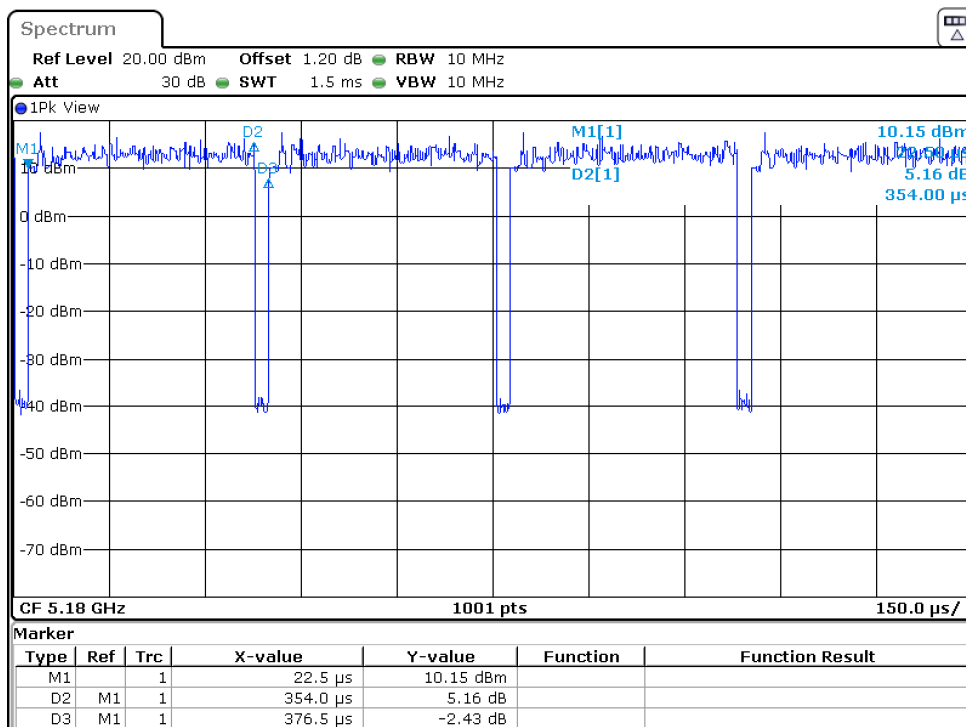
Results:

5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 a	0.3660	0.3900	93.85	0.28
802.11 n20	0.3540	0.3765	94.02	0.27
802.11 n40	0.1905	0.2145	88.81	0.52
802.11 ac20	0.3630	0.3855	94.16	0.26
802.11 ac40	0.1950	0.2175	89.66	0.47
802.11 ac80	0.1095	0.1335	82.02	0.86

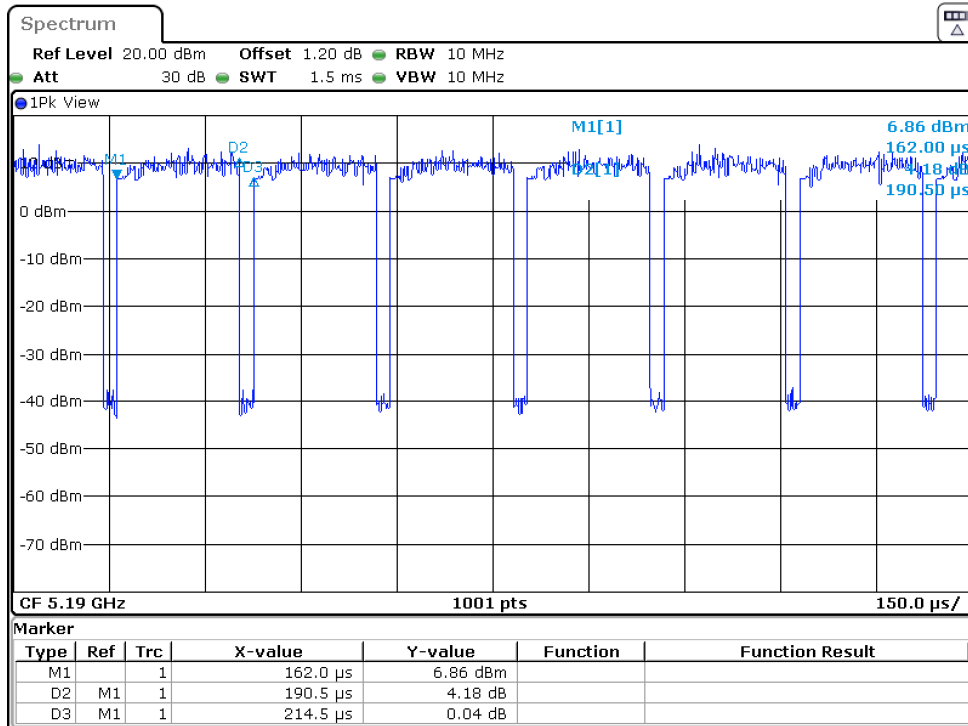
802.11a



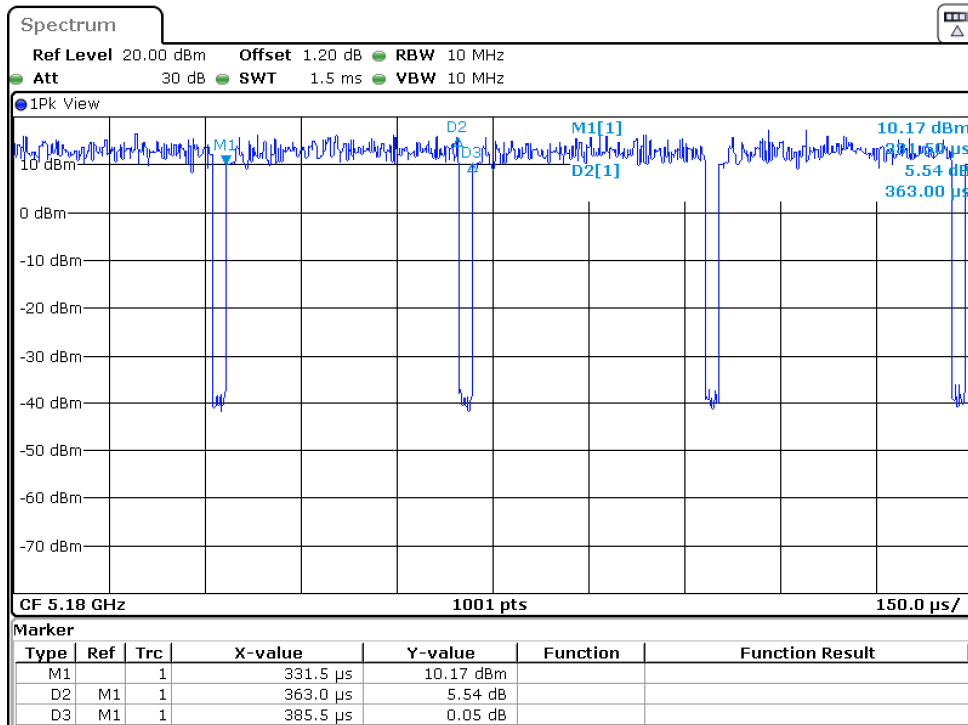
802.11n20



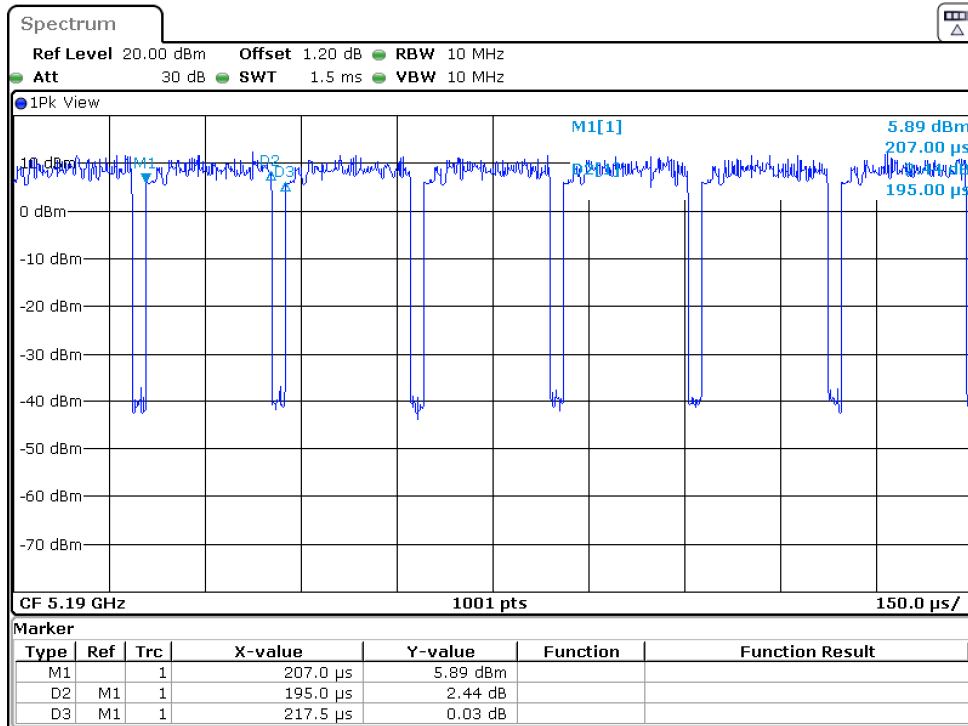
802.11n40



802.11ac20



802.11ac40



802.11ac80

