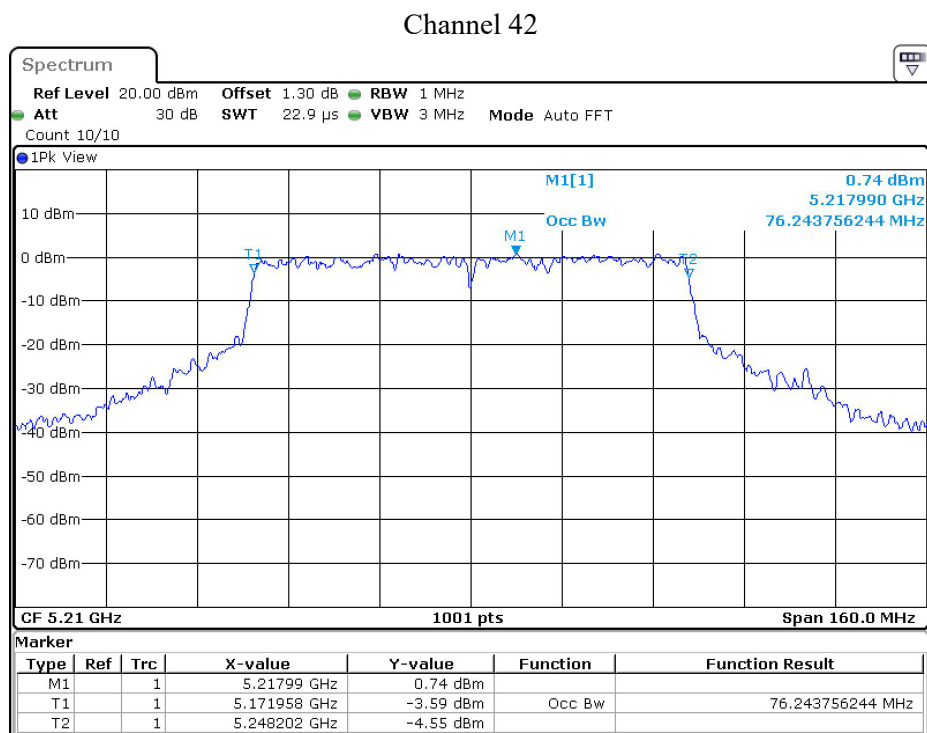


Product : Wireless Access Point
 Test Item : Band Edge Data
 Test Mode : Transmit (802.11ac-80 MHz)_Radio-3

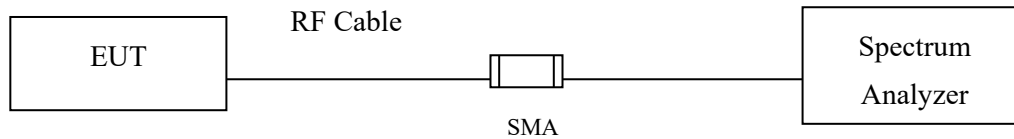
Test Frequency (MHz)	Measurement Level (MHz)	Limit (MHz)	Result
5210	5248.20	<5250	PASS



Date: 12.SEP.2023 17:48:05

7. 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 Occupied Bandwidth

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11a)_Radio-2
 Test Date : 2023/09/13

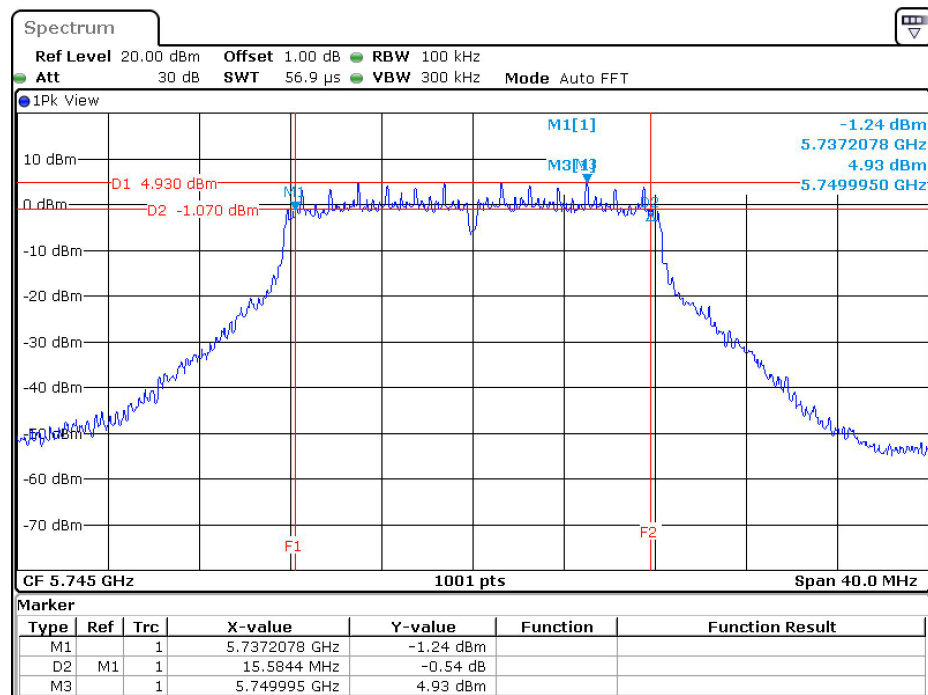
Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15664	>500	Pass
157	5785	16264	>500	Pass
165	5825	15744	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	15584	>500	Pass
157	5785	16024	>500	Pass
165	5825	16264	>500	Pass

Channel 149 (Chain B)



Date: 13.SEP.2023 17:45:17

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)_Radio-2
 Test Date : 2023/09/13

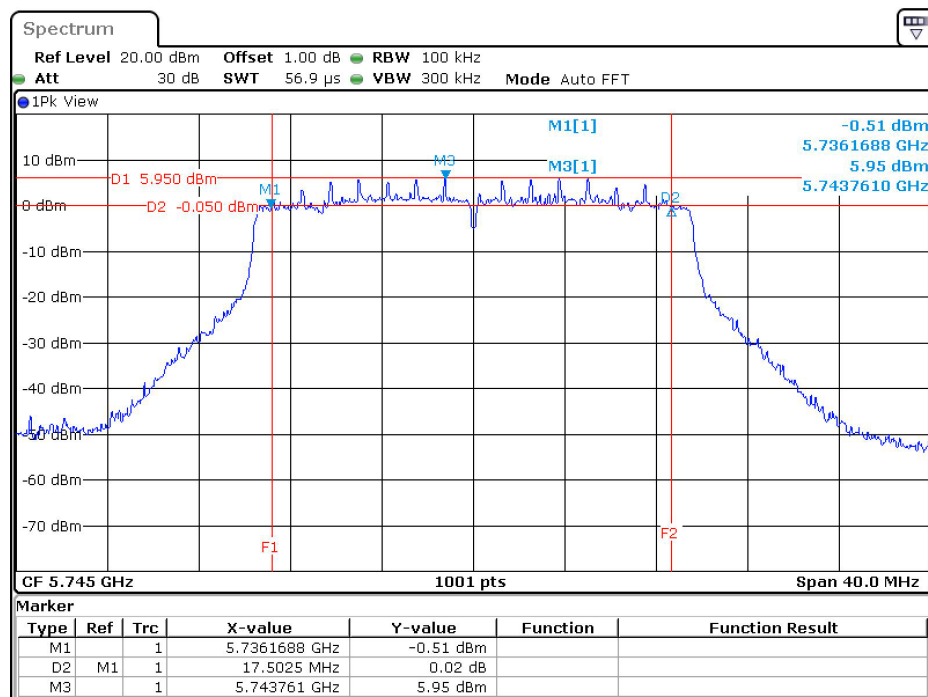
Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	18542	>500	Pass
157	5785	18062	>500	Pass
165	5825	18502	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	17503	>500	Pass
157	5785	17662	>500	Pass
165	5825	17543	>500	Pass

Channel 149 (Chain B)



Date: 13.SEP.2023 18:45:12

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-40 MHz)_Radio-2
 Test Date : 2023/09/13

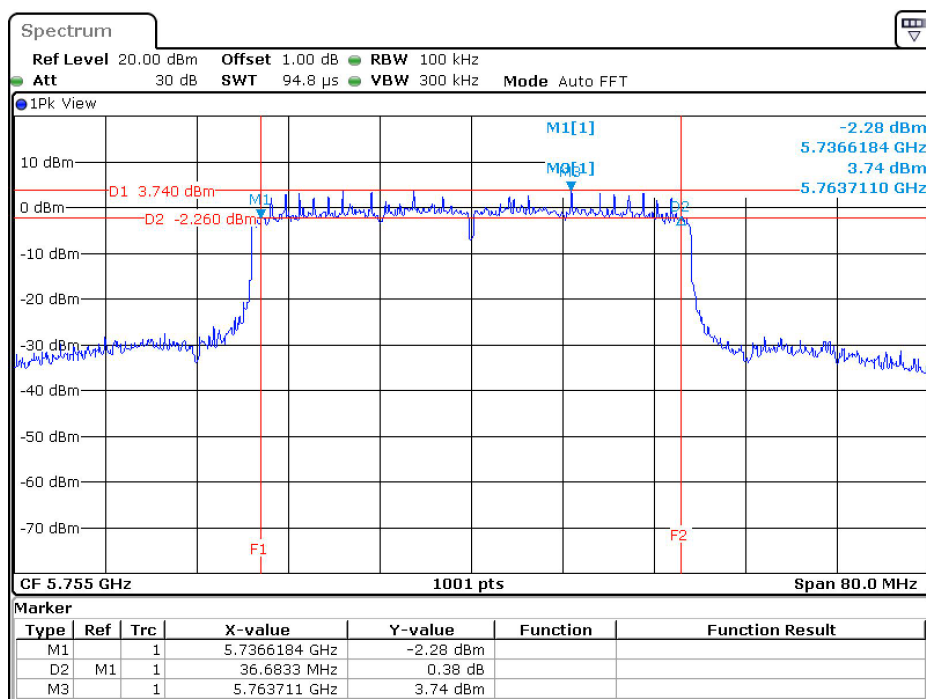
Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	37243	>500	Pass
159	5795	37163	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	36683	>500	Pass
159	5795	38202	>500	Pass

Channel 151 (Chain B)



Date: 13.SEP.2023 19:45:36

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-80 MHz)_Radio-2
 Test Date : 2023/09/13

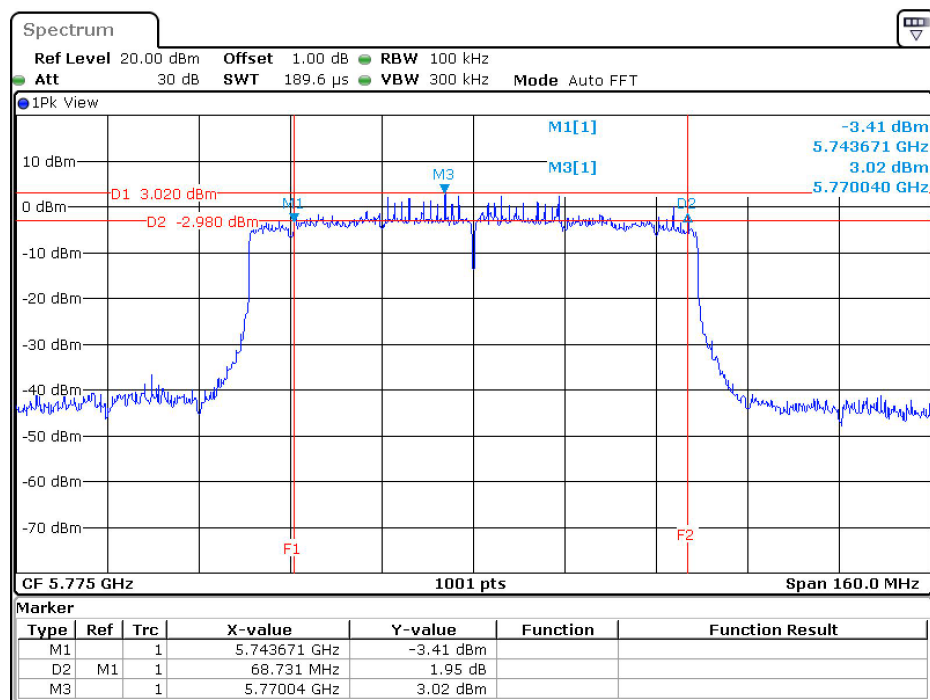
Chain A

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	77842	>500	Pass

Chain B

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	68731	>500	Pass

Channel 155 (Chain B)

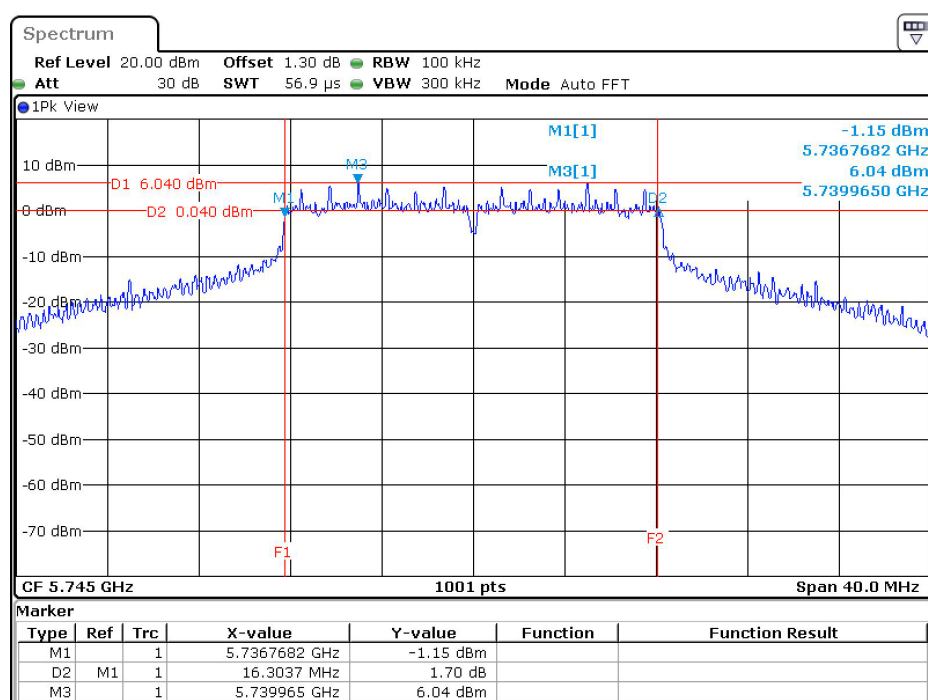


Date: 13.SEP.2023 19:52:37

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11a)_Radio-3
 Test Date : 2023/09/12

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

Channel 149

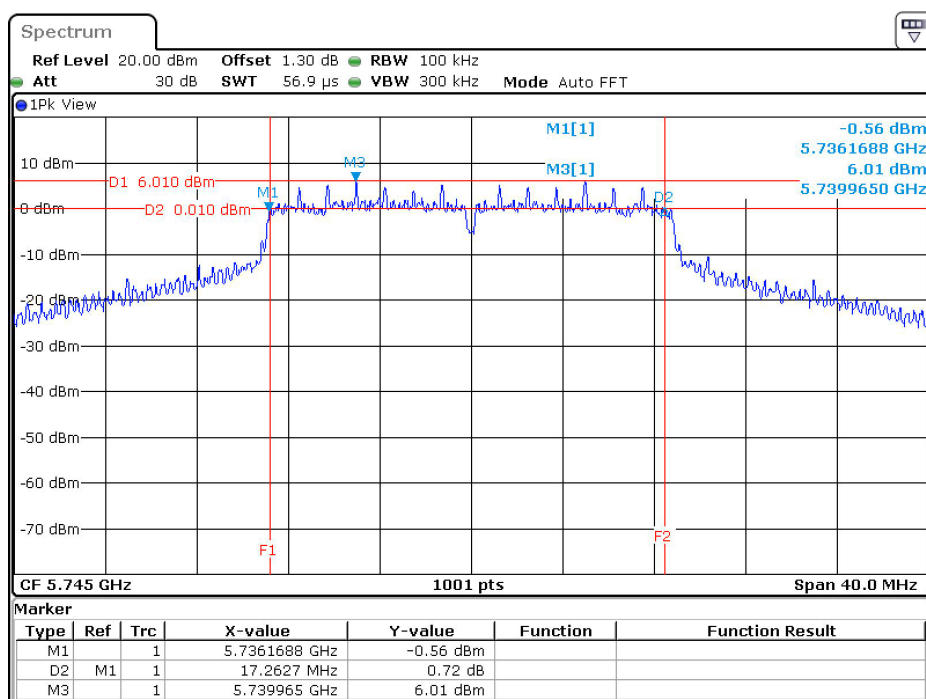


Date: 12.SEP.2023 17:12:09

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ac-20 MHz)_Radio-3
 Test Date : 2023/09/12

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	17263	>500	Pass
157	5785	17503	>500	Pass
165	5825	17582	>500	Pass

Channel 149

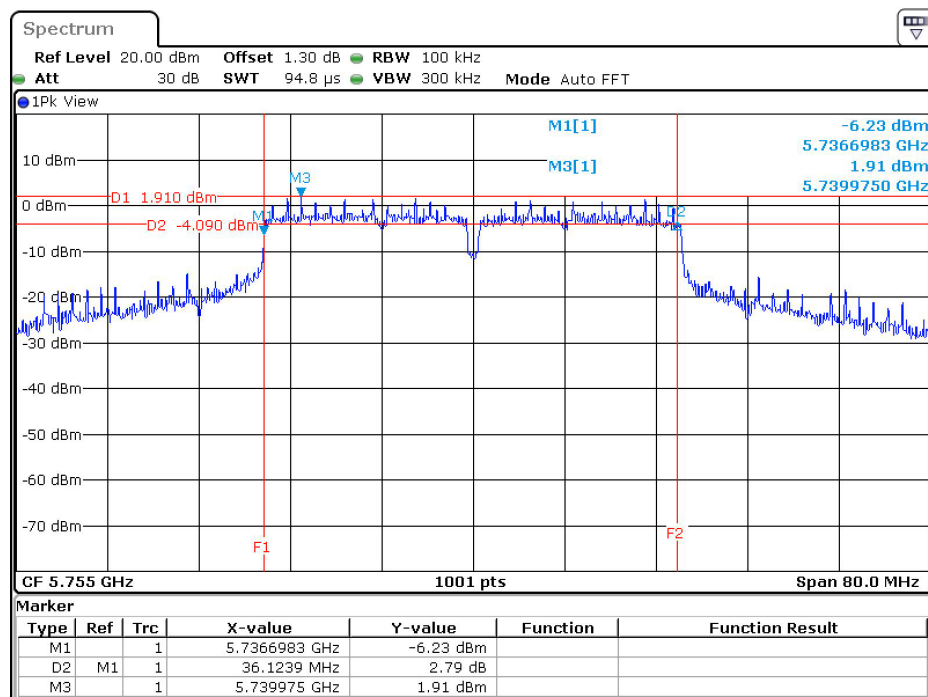


Date: 12.SEP.2023 17:22:57

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ac-40 MHz)_Radio-3
 Test Date : 2023/09/12

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	36124	>500	Pass
159	5795	36364	>500	Pass

Channel 151

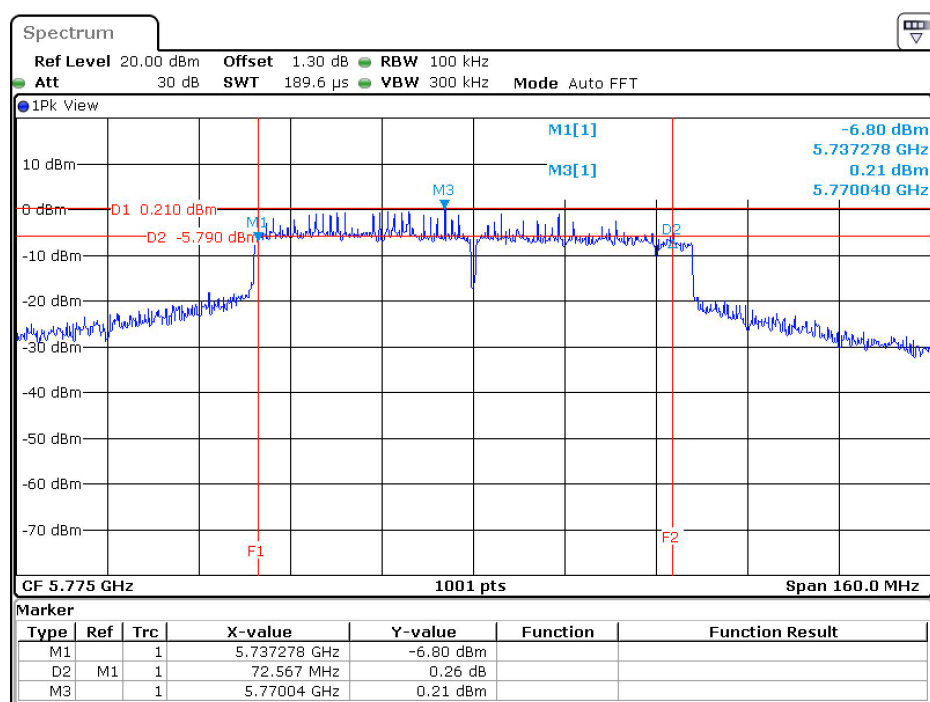


Date: 12.SEP.2023 17:28:41

Product : Wireless Access Point
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ac-80 MHz)_Radio-3
 Test Date : 2023/09/12

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	72567	>500	Pass

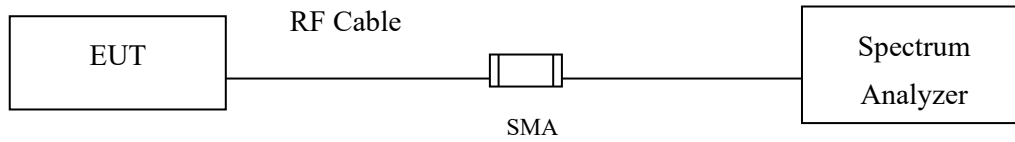
Channel 155



Date: 12.SEP.2023 17:49:01

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 : Wireless Access Point
 Test Item : Duty Cycle
 Test Mode : Transmit

Duty Cycle Formula:

Duty Cycle = $Ton / (Ton + Toff)$

Duty Factor = $10 \text{ Log } (1/\text{Duty Cycle})$

Results:

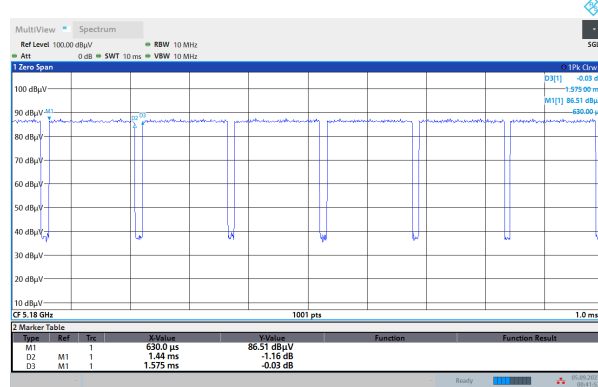
Radio-2

5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.4400	1.5750	91.43	0.39
802.11ax-20 MHz	5.4600	5.7450	95.04	0.22
802.11ax-40 MHz	5.4600	5.7150	95.54	0.20
802.11ax-80 MHz	5.4400	5.8000	93.79	0.28

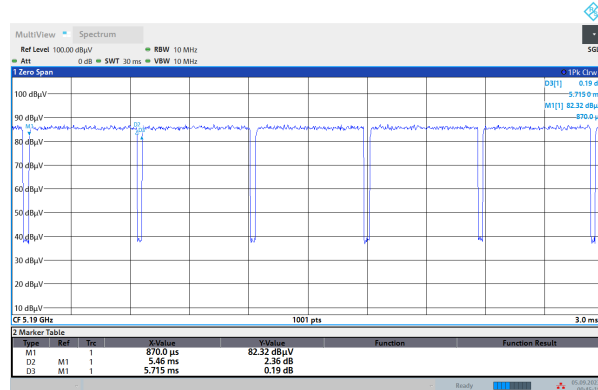
Radio-3

5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	4.0600	4.2100	96.44	0.16
802.11ac-20 MHz	3.7900	3.9400	96.19	0.17
802.11ac-40 MHz	1.8700	2.0250	92.35	0.35
802.11ac-80 MHz	0.9120	1.0740	84.92	0.71

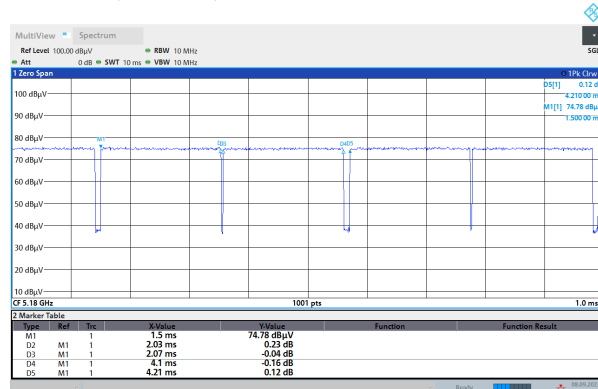
802.11a (Radio-2)



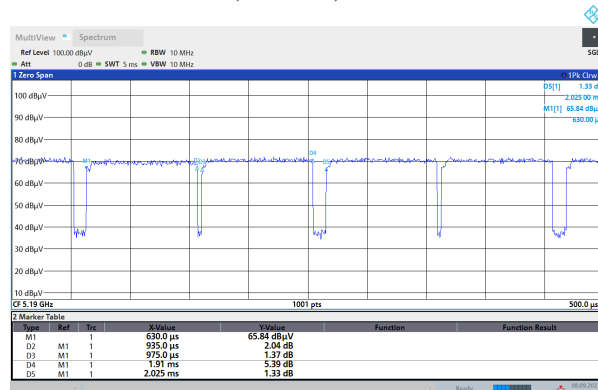
802.11ax-40 MHz (Radio-2)



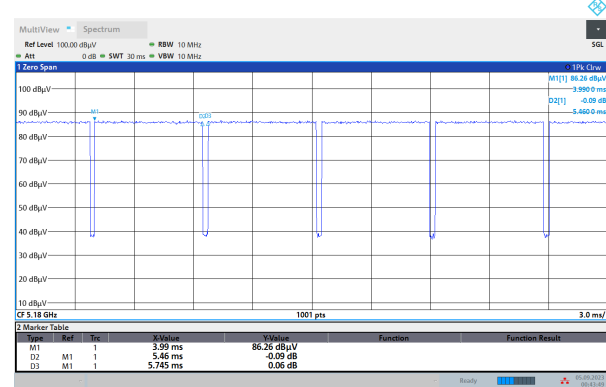
802.11a (Radio-3)



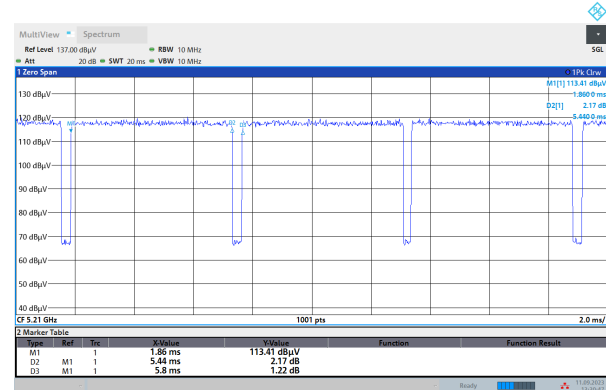
802.11ac-40 MHz (Radio-3)



802.11ax-20 MHz (Radio-2)



802.11ax-80 MHz (Radio-2)



802.11ac-20 MHz (Radio-3)



802.11ac-80 MHz (Radio-3)

