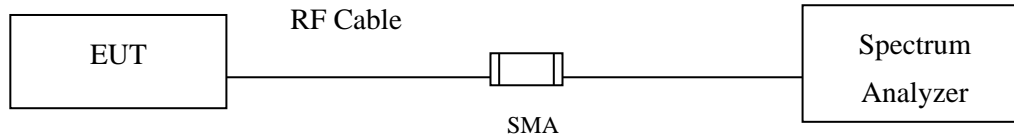


7. Occupied Bandwidth

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

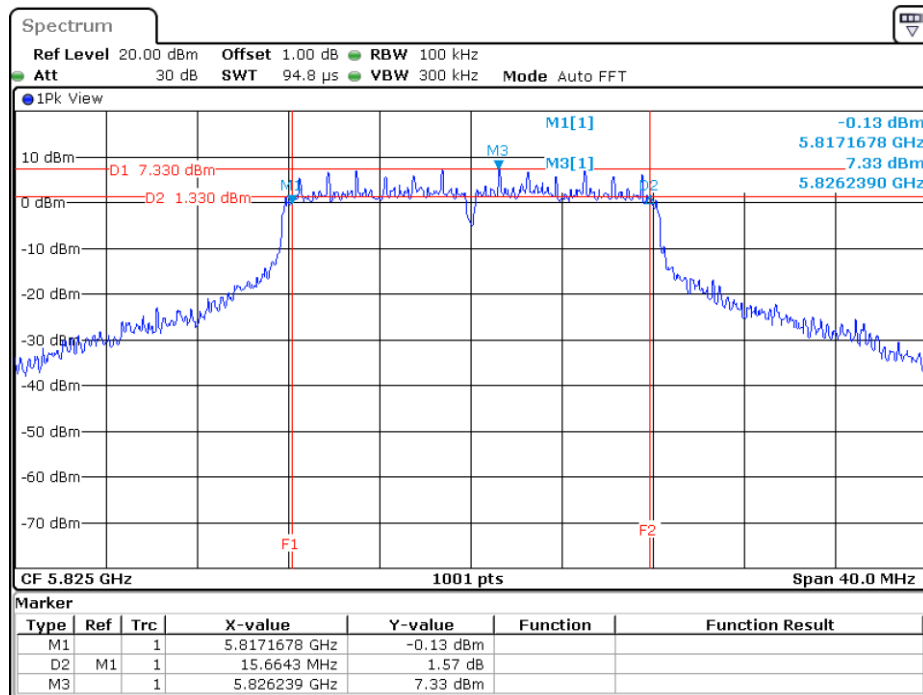
The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

7.4. Test Result of Occupied Bandwidth

Product : Celer, Celer-5G, Celer-LTE1, Celer-LTE2
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11a)
 Test Date : 2023/08/01

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	16024	>500	Pass
157	5785	A	15824	>500	Pass
165	5825	A	15664	>500	Pass
149	5745	B	15505	>500	Pass
157	5785	B	16024	>500	Pass
165	5825	B	15145	>500	Pass

Channel 165 (Chain A)

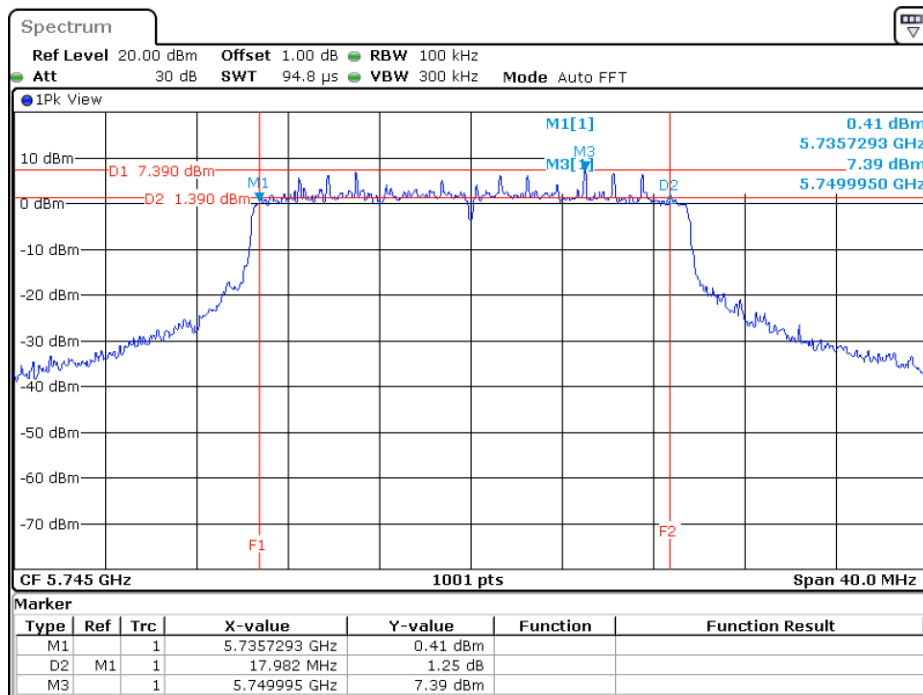


Date: 1.AUG.2023 17:27:16

Product : Celer, Celer-5G, Celer-LTE1, Celer-LTE2
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)
 Test Date : 2023/08/02

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
149	5745	A	17782	>500	Pass
157	5785	A	18182	>500	Pass
165	5825	A	18462	>500	Pass
149	5745	B	17982	>500	Pass
157	5785	B	18382	>500	Pass
165	5825	B	17223	>500	Pass

Channel 149 (Chain B)

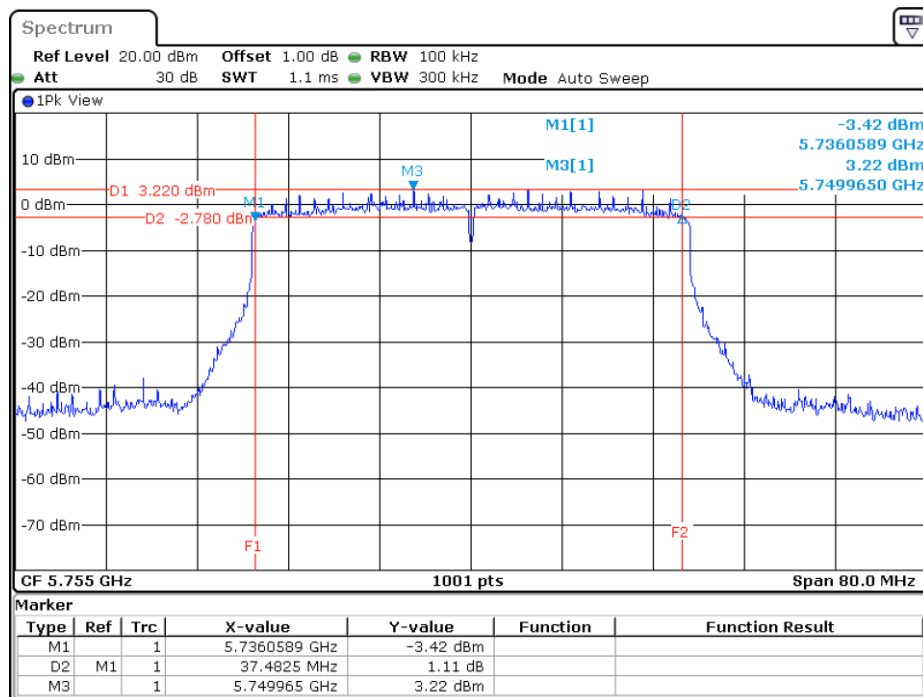


Date: 2.AUG.2023 11:39:16

Product : Celer, Celer-5G, Celer-LTE1, Celer-LTE2
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-40 MHz)
 Test Date : 2023/08/02

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
151	5755	A	37562	>500	Pass
159	5795	A	37802	>500	Pass
151	5755	B	37483	>500	Pass
159	5795	B	37323	>500	Pass

Channel 151 (Chain B)

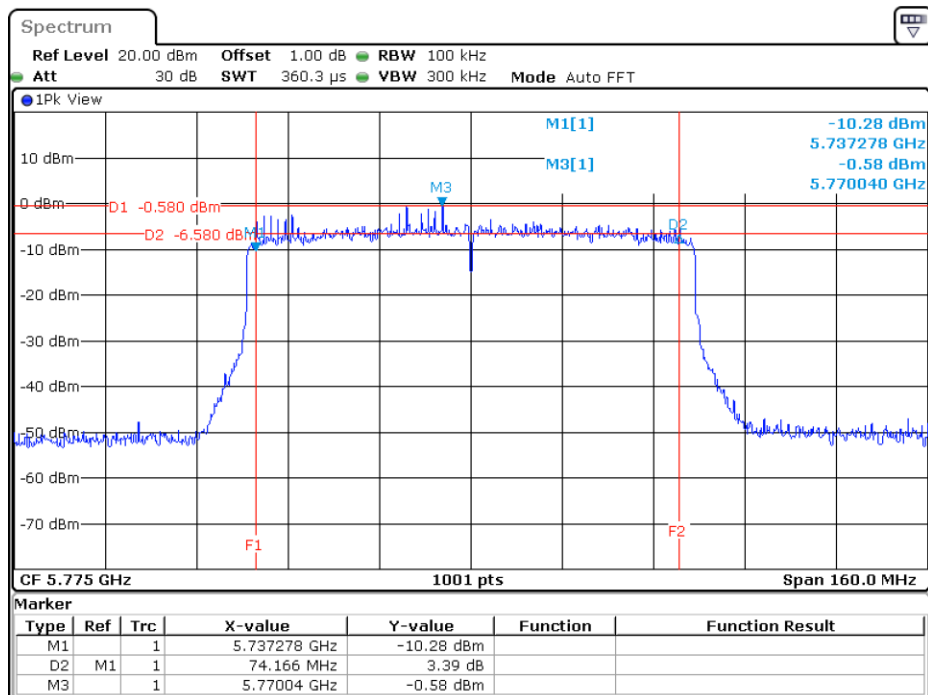


Date: 2.AUG.2023 15:04:22

Product : Celer, Celer-5G, Celer-LTE1, Celer-LTE2
 Test Item : Occupied Bandwidth Data
 Test Mode : Transmit (802.11ax-80 MHz)
 Test Date : 2023/08/02

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
155	5775	A	74166	>500	Pass
155	5775	B	76883	>500	Pass

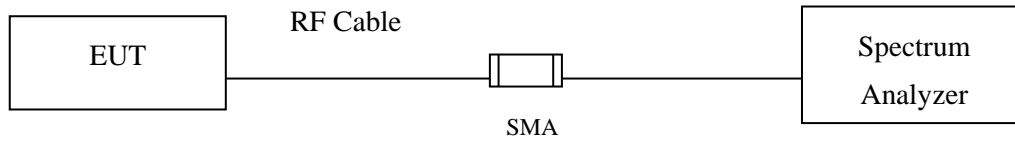
Channel 155 (Chain A)



Date: 2.AUG.2023 16:12:22

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 : Celer, Celer-5G, Celer-LTE1, Celer-LTE2
 Test Item : Duty Cycle
 Test Mode : Transmit

Duty Cycle Formula:

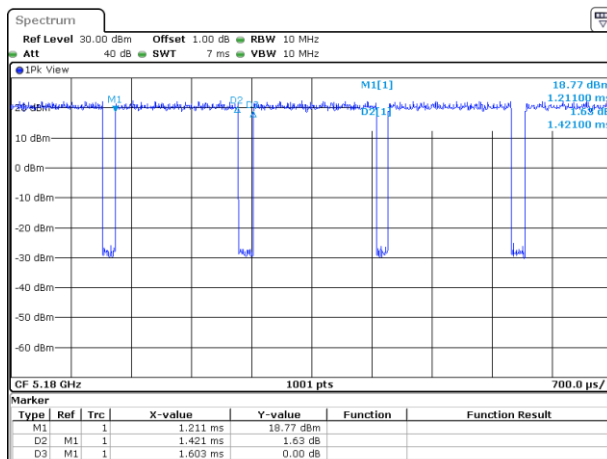
$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

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

Results:

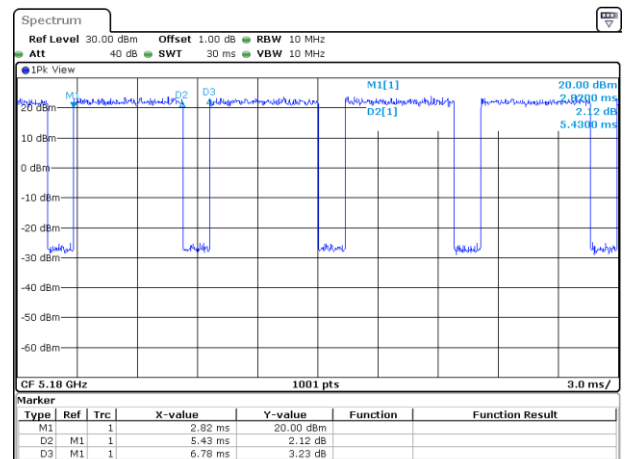
5 GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11a	1.4210	1.6030	88.65	0.52
802.11ax-20 MHz	5.4300	6.7800	80.09	0.96
802.11ax-40 MHz	5.4300	6.7800	80.09	0.96
802.11ax-80 MHz	5.4300	6.7800	80.09	0.96

802.11b



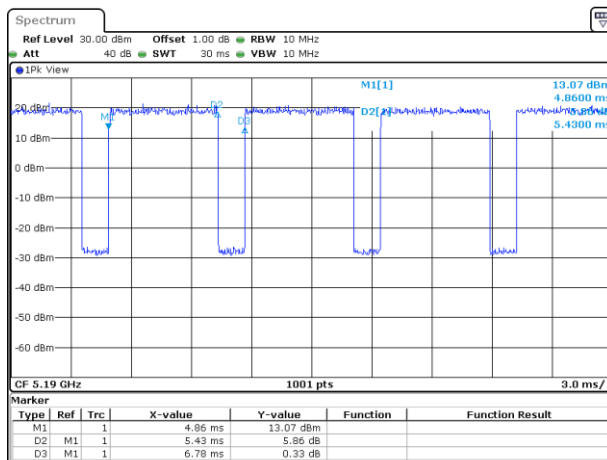
Date: 1 AUG 2023 16:01:58

802.11ax-20 MHz



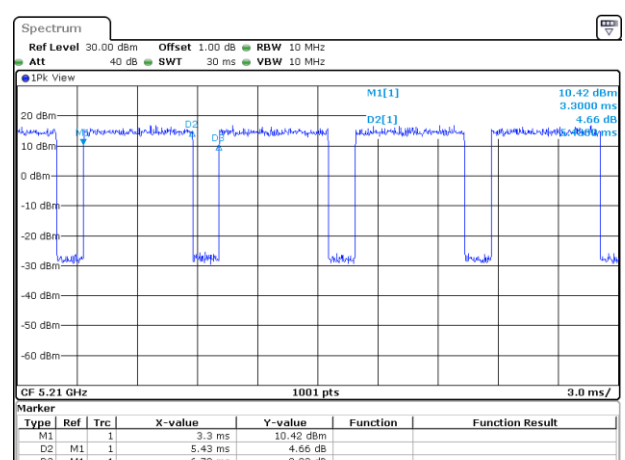
Date: 1 AUG 2023 18:04:58

802.11ax-40 MHz



Date: 2 AUG 2023 13:38:03

802.11ax-80 MHz



Date: 2 AUG 2023 15:18:01