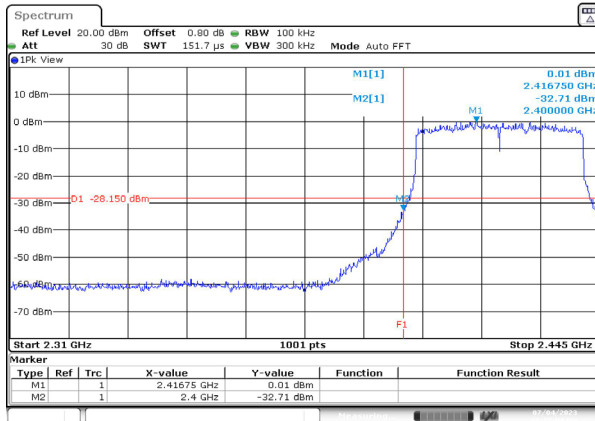


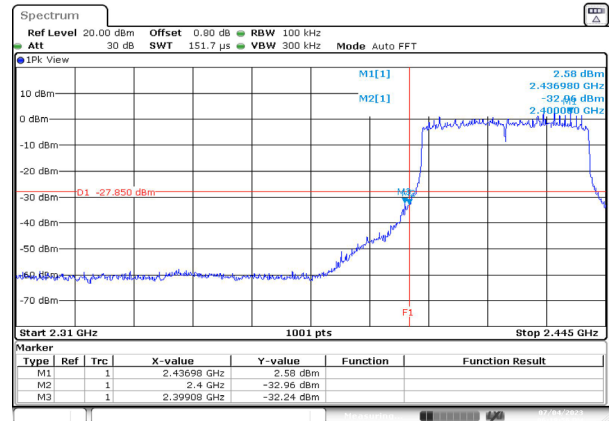
Product : Peplink Pepwave Wireless Product
 Test Item : Band Edge
 Test Mode : Transmit (802.11ax-40 MHz)
 Test Date : 2023/07/04

Measurement Level Δ (dB)	Result
> 20	PASS



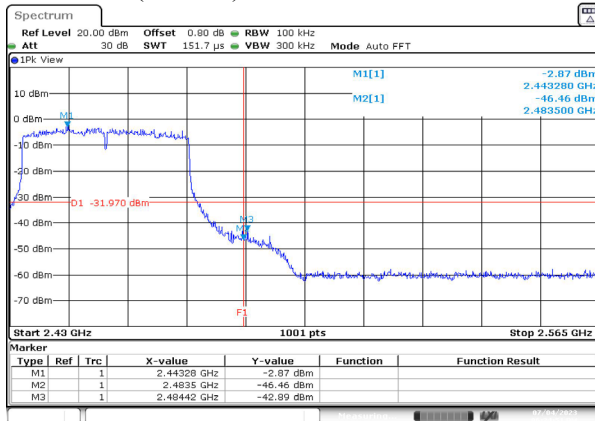
Date: 4 JUL 2023 18:17:04

Channel 03 (Chain A)



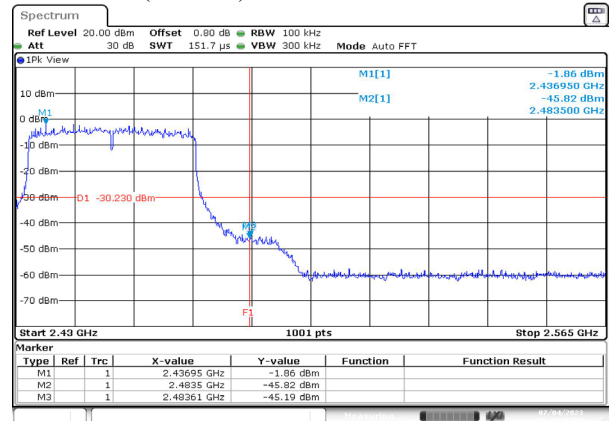
Date: 4 JUL 2023 18:18:57

Channel 03 (Chain B)



Date: 4 JUL 2023 18:24:51

Channel 09 (Chain A)

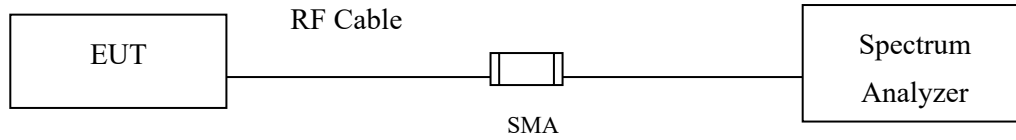


Date: 4 JUL 2023 18:26:47

Channel 09 (Chain B)

7. 6dB Bandwidth

7.1. Test Setup



7.2. Limits

The minimum bandwidth shall be at least 500 kHz.

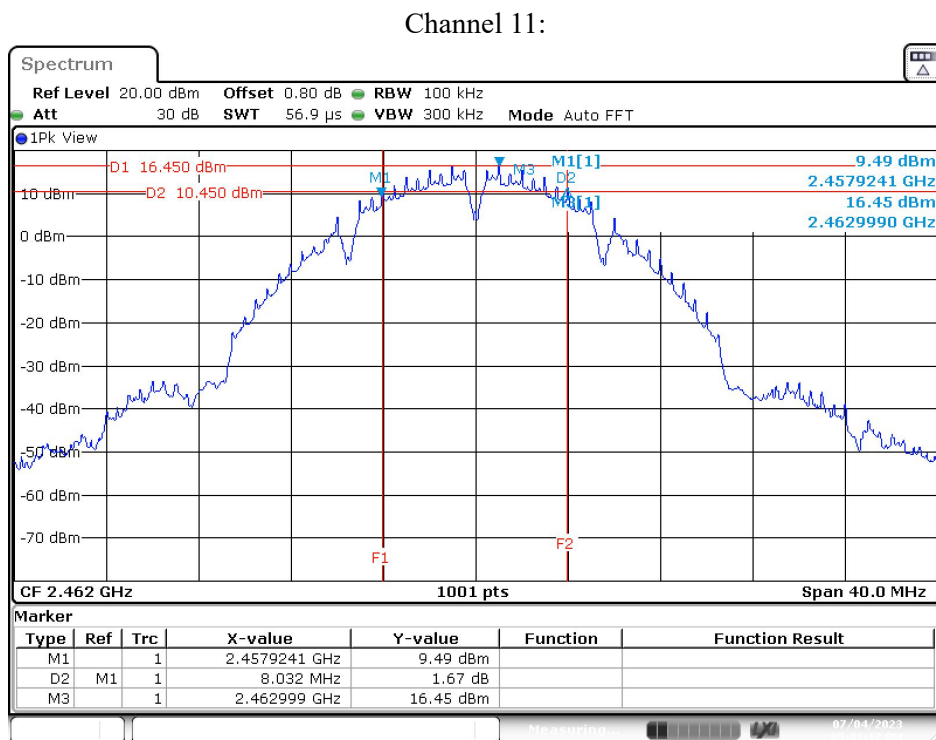
7.3. Test Procedure

The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 11.8 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Result of 6dB Bandwidth

Product : Peplink Pepwave Wireless Product
 Test Item : 6dB Bandwidth Data
 Test Mode : Transmit (802.11b)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	A	8032	>500	Pass
06	2437	A	8032	>500	Pass
11	2462	A	8032	>500	Pass
01	2412	B	8032	>500	Pass
06	2437	B	8032	>500	Pass
11	2462	B	8032	>500	Pass

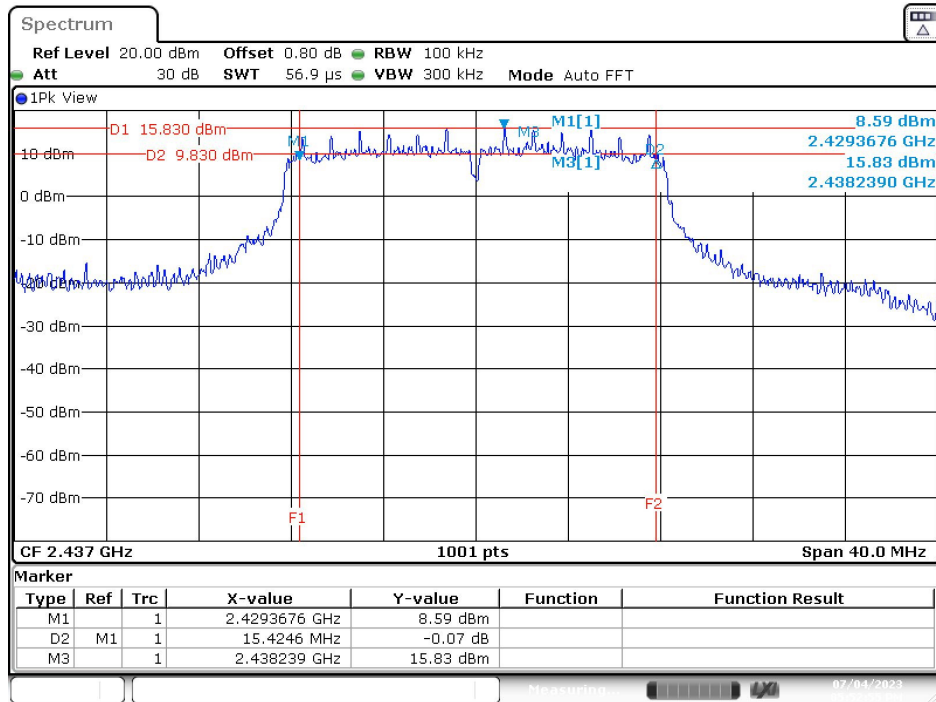


Date: 4.JUL.2023 17:41:17

Product : Peplink Pepwave Wireless Product
 Test Item : 6dB Bandwidth Data
 Test Mode : Transmit (802.11g)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	A	15664	>500	Pass
06	2437	A	15425	>500	Pass
11	2462	A	16024	>500	Pass
01	2412	B	15465	>500	Pass
06	2437	B	15465	>500	Pass
11	2462	B	16264	>500	Pass

Channel 06:

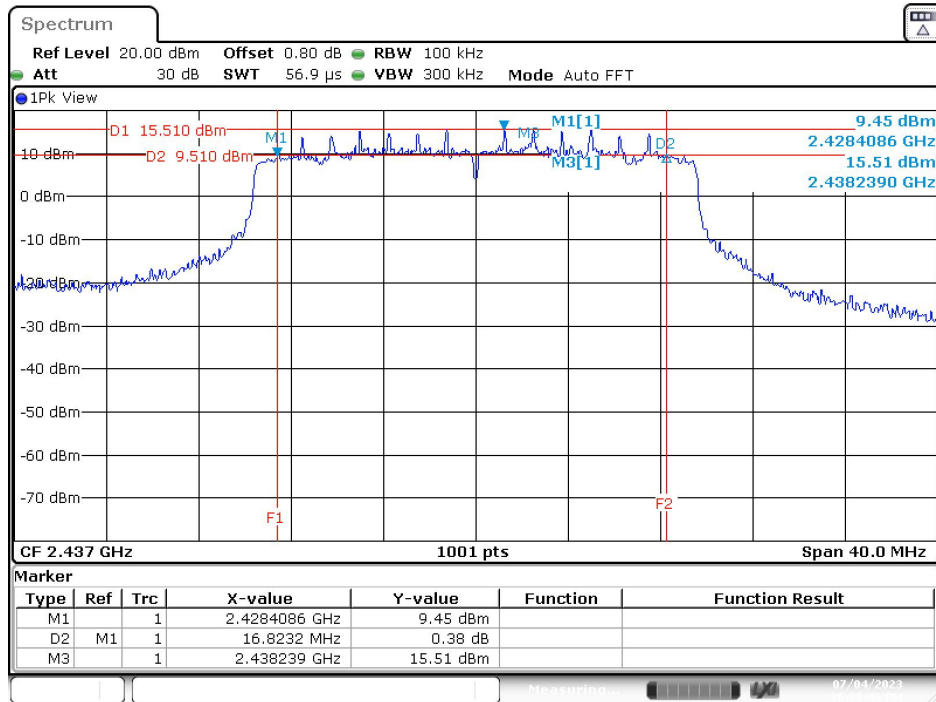


Date: 4.JUL.2023 17:52:55

Product : Peplink Pepwave Wireless Product
 Test Item : 6dB Bandwidth Data
 Test Mode : Transmit (802.11ax-20 MHz)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	A	18861	>500	Pass
06	2437	A	16823	>500	Pass
11	2462	A	18382	>500	Pass
01	2412	B	17303	>500	Pass
06	2437	B	17183	>500	Pass
11	2462	B	18182	>500	Pass

Channel 06:

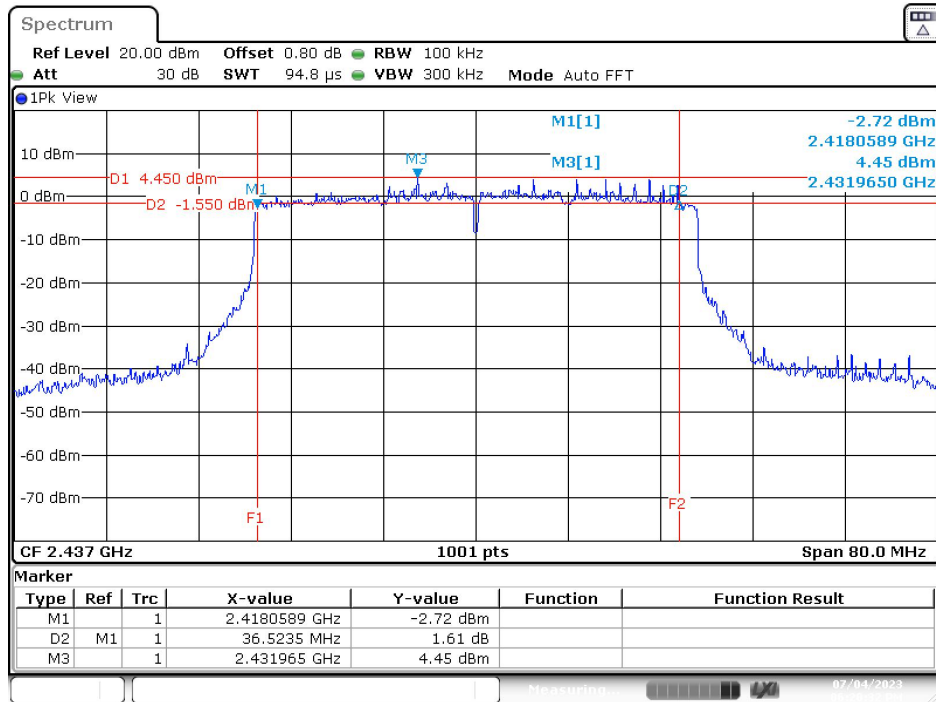


Date: 4.JUL.2023 18:08:46

Product : Peplink Pepwave Wireless Product
 Test Item : 6dB Bandwidth Data
 Test Mode : Transmit (802.11ax-40 MHz)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Chain	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	A	18861	>500	Pass
06	2437	A	16823	>500	Pass
09	2452	A	18382	>500	Pass
03	2422	B	17303	>500	Pass
06	2437	B	17183	>500	Pass
09	2452	B	18182	>500	Pass

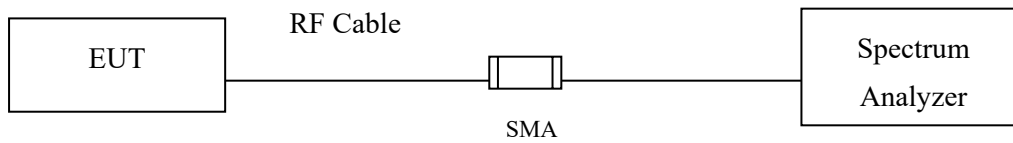
Channel 06:



Date: 4.JUL.2023 18:20:32

8. Power Density

8.1. Test Setup



8.2. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8 dBm in any 3 kHz bandwidth.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The maximum power spectral density using ANSI C63.10 Section 11.10.2 Method PKPSD (peak PSD).

The maximum power density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For CDD mode:

2400MHz: Directional gain = 10.81 dBi, Limit= 3.19dBm

Directional gain = $10 \log[(10G1/20 + 10G2/20)^2 / NANT]$ dBi

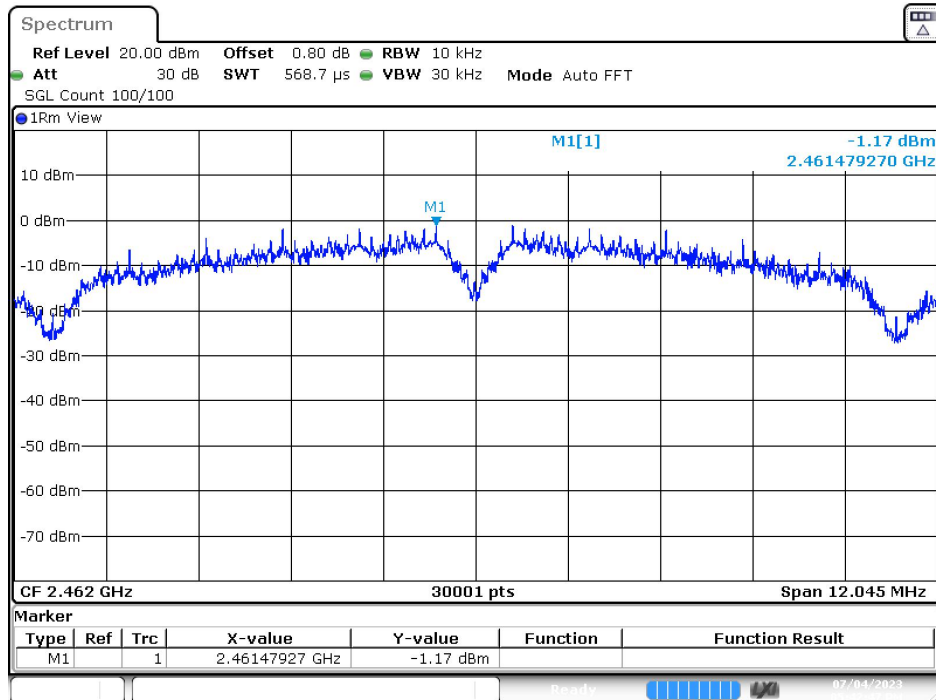
8.4. Test Result of Power Density

Product : Peplink Pepwave Wireless Product
 Test Item : Power Density Data
 Test Mode : Transmit (802.11b)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
01	2412	1	A	-1.700	1.43	2.816	3.19	Pass
			B	-1.560				
06	2437	1	A	-1.760	1.43	2.771	3.19	Pass
			B	-1.590				
11	2462	1	A	-1.460	1.43	3.133	3.19	Pass
			B	-1.170				

Note: Total PPSD/MHz = 10*log(Chain A (mW) + Chain B (mW)) + Duty factor.

Channel 11:



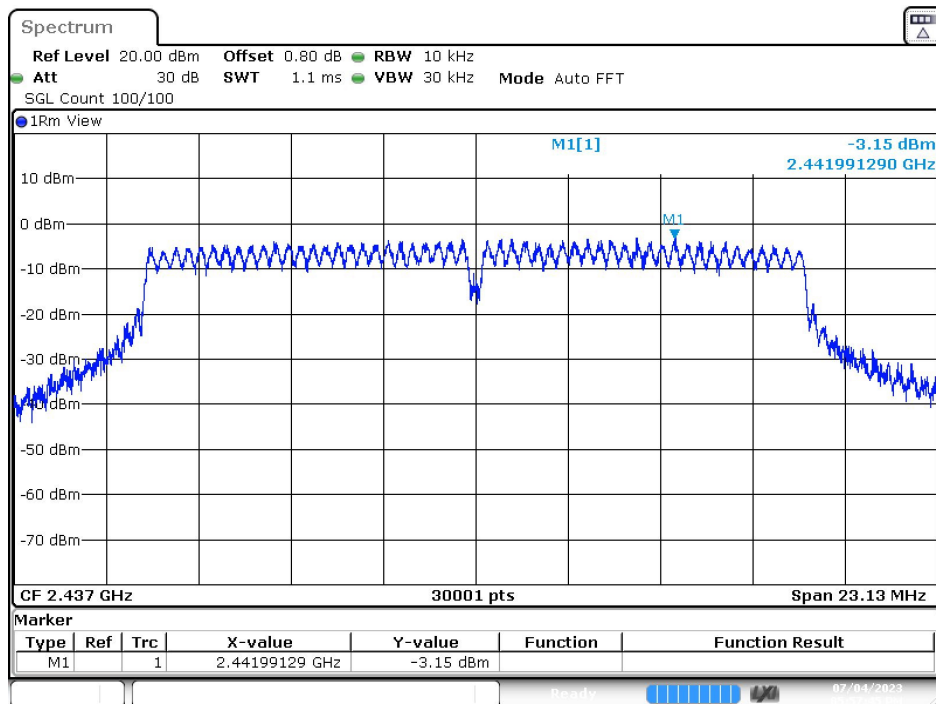
Date: 4 JUL 2023 17:42:47

Product : Peplink Pepwave Wireless Product
 Test Item : Power Density Data
 Test Mode : Transmit (802.11g)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Data Rate (Mbps)	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
01	2412	6	A	-10.650	0.49	-6.782	3.19	Pass
			B	-9.940				
06	2437	6	A	-3.150	0.49	-0.764	3.19	Pass
			B	-5.760				
11	2462	6	A	-8.430	0.49	-4.738	3.19	Pass
			B	-8.050				

Note: Total PPSD/MHz = 10*log(Chain A (mW) + Chain B (mW)) + Duty factor.

Channel 06:



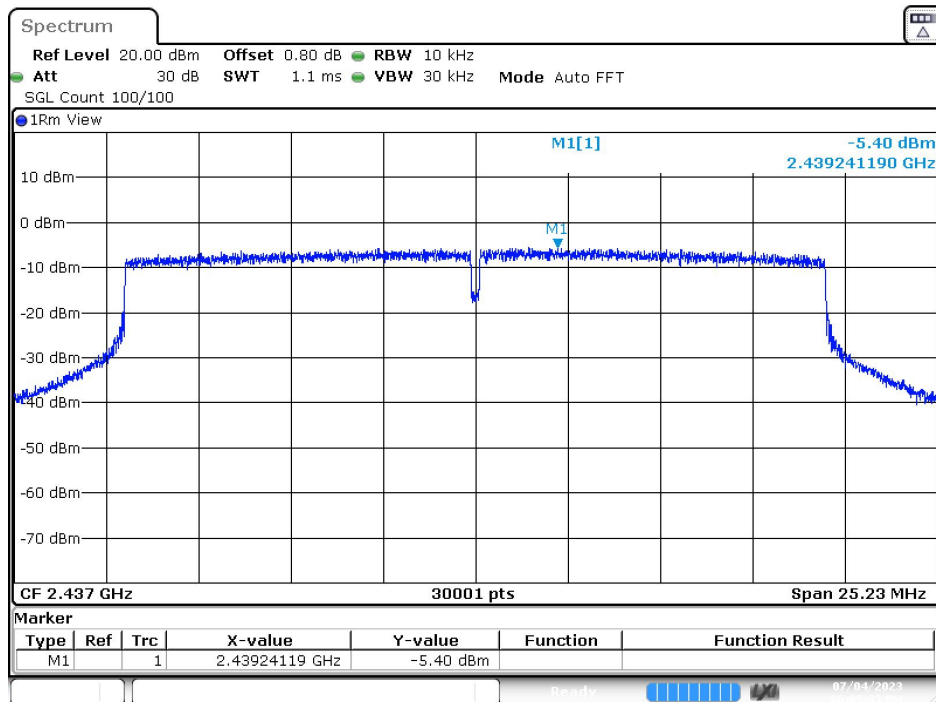
Date: 4 JUL 2023 17:57:45

Product : Peplink Pepwave Wireless Product
 Test Item : Power Density Data
 Test Mode : Transmit (802.11ax-20 MHz)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
01	2412	MCS0	A	-15.730	0.20	-12.46	3.19	Pass
			B	-15.610				
06	2437	MCS0	A	-5.400	0.20	-3.14	3.19	Pass
			B	-7.570				
11	2462	MCS0	A	-10.010	0.20	-6.91	3.19	Pass
			B	-10.250				

Note: Total PPSD/MHz = 10*log(Chain A (mW) + Chain B (mW)) + Duty factor.

Channel 06:



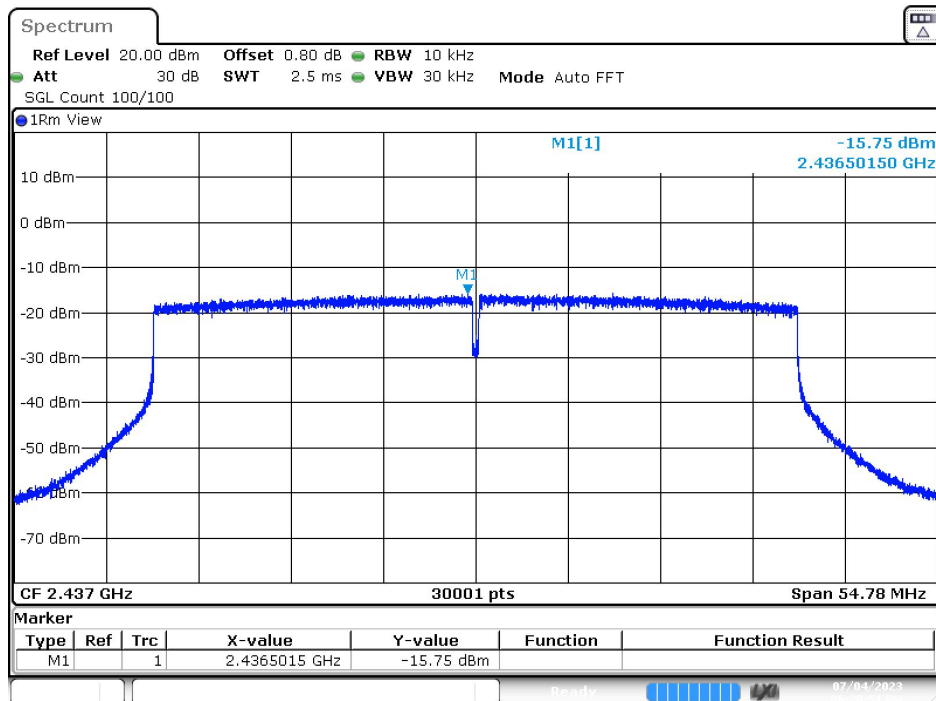
Date: 4.JUL.2023 18:09:03

Product : Peplink Pepwave Wireless Product
 Test Item : Power Density Data
 Test Mode : Transmit (802.11ax-40 MHz)
 Test Date : 2023/07/04

Channel No.	Frequency (MHz)	Data Rate	Chain	PPSD/MHz (dBm)	Duty factor (dBm)	Total PPSD/MHz (dBm)	Limit (dBm)	Result
03	2422	MCS0	A	-17.780	0.28	-14.18	3.19	Pass
			B	-17.190				
06	2437	MCS0	A	-15.820	0.28	-12.49	3.19	Pass
			B	-15.750				
09	2452	MCS0	A	-20.180	0.28	-16.67	3.19	Pass
			B	-19.750				

Note: Total PPSD/MHz = 10*log(Chain A (mW) + Chain B (mW)) + Duty factor.

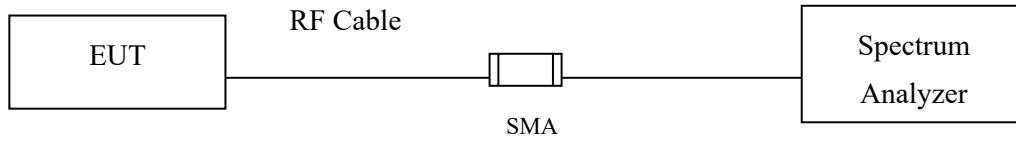
Channel 06:



Date: 4.JUL.2023 18:20:51

9. Duty Cycle

9.1. Test Setup



9.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to ANSI C63.10 2013 for compliance to FCC 47CFR 15.247 requirements.

9.3. Test Result of Duty Cycle

Product : Peplink Pepwave Wireless Product
 Test Item : Duty Cycle
 Test Mode : Transmit
 Test Date : 2023/06/29

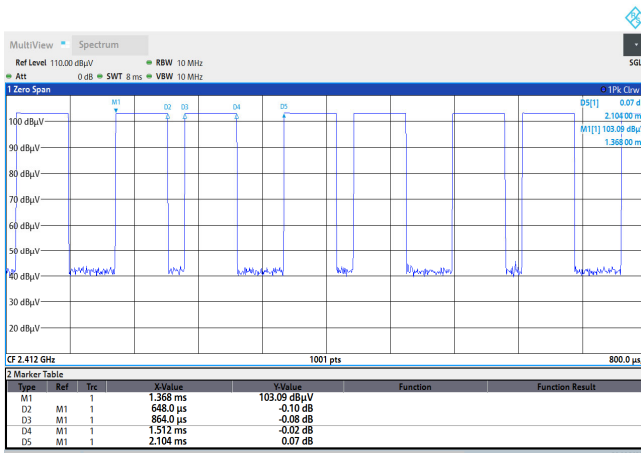
Duty Cycle Formula:

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

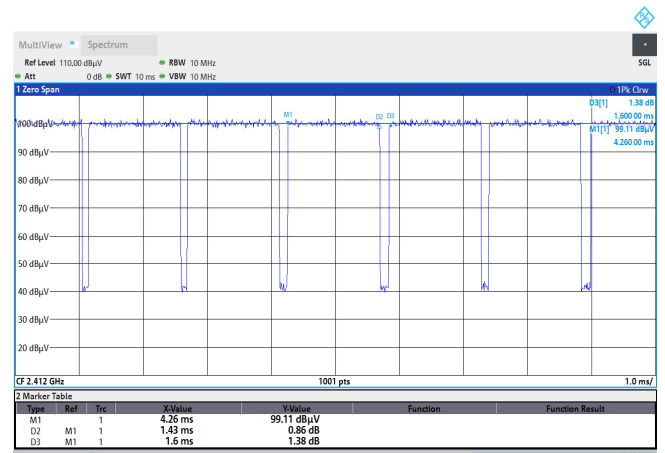
$$\text{Duty Factor} = 10 \text{ Log} (1/\text{Duty Cycle})$$

Results:

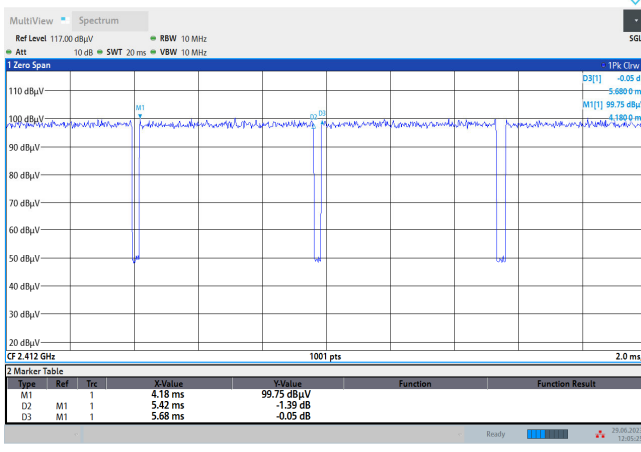
2.4GHz band	Ton (ms)	Ton + Toff (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11b	1.5120	2.1040	71.86	1.43
802.11g	1.4300	1.6000	89.38	0.49
802.11ax-20 MHz	5.4200	5.6800	95.42	0.20
802.11ax-40 MHz	5.4000	5.7600	93.75	0.28



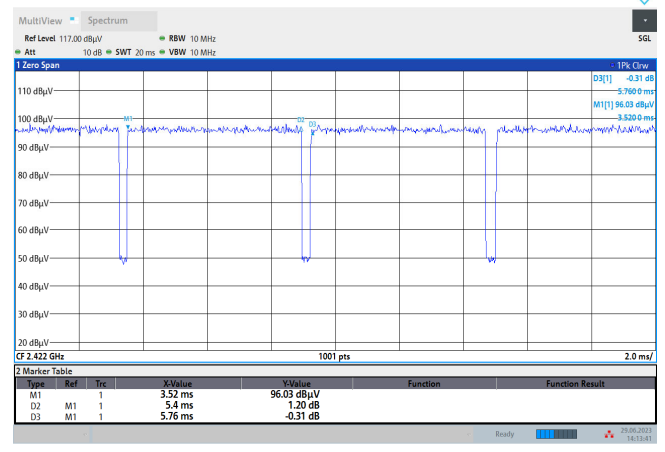
07:16:01 29.06.2023
802.11b



09:57:24 29.06.2023
802.11g



12:05:26 29.06.2023
802.11ax-20 MHz



14:13:41 29.06.2023
802.11ax-40 MHz