

UWB PAG Review Process Checklists

Question 6: What compliance information should be included with an application for certification?

Answer 6: In addition to the requirements specified in Sections 2.947, 2.911, 2.1033(b), 15.31, 15.203, and 15.521, the following information is required for the processing of a UWB application for certification:

- The UWB application category (e.g., imaging device, indoor system, hand held device), and the applicable rule section (among Sections 15.509 through 15.519).
TCB: UWB Application category is indoor use with applicable rule of 15.517.
- The lower and upper –10 dB frequencies (f_L and f_H , respectively) and the frequency of the maximum observed emission level (f_M). Also provide a frequency vs. amplitude plot that graphically depicts these values.
TCB: For f_M , f_L and f_H values and plots, please refer to Page 16-17 of test report (SZNS220413-14011E-RF-00).
- The maximum radiated emissions (including narrowband emissions) and the associated frequencies observed in each frequency band identified in the applicable emission limits tables.
TCB: For Max radiated emissions, please refer to Page 21-30 of test report (SZNS220413-14011E-RF-00).
- In the event that no emissions are observed in the aforementioned frequency bands, report the minimum sensitivity (noise floor) of the measurement system in these bands (i.e., show that the measurement system is capable of detecting emissions down to the level indicated by the applicable emissions limit).
TCB: For Max radiated emissions, please refer to Page 21-30 of test report (SZNS220413-14011E-RF-00).
- If applicable, report all digital circuitry emissions exceeding the applicable UWB limits, and provide a complete description of the process used to justify invoking the exception stated in Section 15.521(c).
TCB: N/A, for Max radiated emissions, please refer to Page 21-30 of test report (SZNS220413-14011E-RF-00).
- Frequency vs. amplitude plots depicting the measured fundamental emission, the out-of-band emission domain, and the emissions into the GPS frequency bands.
TCB: For Max radiated emissions, please refer to Page 21-30 of test report (SZNS220413-14011E-RF-00).
- Where applicable, indicate the location of required operating labels and/or a manual disable switch.
TCB: This device doesn't have operating labels and or a manual disable switch.
- Supporting photographs depicting the measurement system set-up and the device under test.
TCB: Please refer to exhibit of test setup photographs.

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Checklist for The PAG Review

1. Show that the device mode operation is permissible under the specific Part 15 subpart
TCB: This device can be certified under Part 15.517 as indoor USB system.
2. Specify if § 15.250 (15C) is used as alternative to §15.517 or §15.519 (15F)
TCB: The UWB radio is activated by BLE establishes a link between handheld key fob and this device. It's reasonable to apply Part 15F instead of 15.250 based on KDB 393764 D01 Q&A 5#. It's also be approved by the FCC per KDB 856009.
3. Show that KDB 393764 Q6 is being followed
TCB: Please refer to above Q6 response
4. Account for all technical requirements specific to each UWB mode of operation
TCB: all technical requirements specific to each UWB mode already accounted.
5. Verify that §15.519 devices do not utilize fixed infrastructure.
TCB: The device is indoor use and does not utilize fixed infrastructure.
6. Verify that grant restrictions and notices are in accordance with specific rule part
TCB: all restrictions and notices are in accordance with specific rule part.
7. Verify requirements and restrictions for UWB modular approvals
TCB: This is the final device, not a module.
8. TCB to include §15.521(a) statement on Grant Restrictions and verify the required device/user manual for all UWB modes of operation
TCB: The §15.521(a) statement already include in the grant.