IEEE P802.11  
Wireless LANs

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | MCS 14 | | | | | | Date: 2025-7-29 | | | | | | Author(s): | | | | | | Name | Affiliation | Address | Phone | email | | Youhan Kim | Qualcomm Technologies, Inc. |  |  | [youhank@qti.qualcomm.com](mailto:youhank@qti.qualcomm.com) | | Darcy Poulin | Skyworks |  |  | [darcy.poulin@skyworksinc.com](mailto:darcy.poulin@skyworksinc.com) | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |

Abstract

This submission proposes text update to clarify that MCS 14 is not used in UHR.

NOTE – Set the Track Changes Viewing Option in the MS Word to “All Markup” to clearly see the proposed text edits.

**Revision History:**

R0: Initial version.

R1: Added removal of MCS 14 from Table 38-52.

## Background

During comment resolution on CIDs 358, 361 and 3707, TGbn decided not to define MCS 14 in UHR – see <https://mentor.ieee.org/802.11/dcn/25/11-25-0855-00-00bn-comment-resolution-for-38-5-parameters-of-uhr-mcs.docx>

Further clean up of MCS 14 from the TGbn draft was done in <https://mentor.ieee.org/802.11/dcn/25/11-25-0775-02-00bn-crs-on-new-mcss-for-subclause-38-5.docx>.

However, there are still two locations in 11bn D0.3 which refer to MCS 14.

11bn D0.3 P321L57:

|  |
| --- |
| … |

11bn D0.3 P342L13:

|  |
| --- |
| A black text on a white background  AI-generated content may be incorrect. |

This document proposes text update to remove the above references to MCS 14.

## Proposed Text Updates

*Instruction to TGbn Editor: Update Table 38-52 on 11bn D0.3 P321 as shown below:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Table 38-52 – Allowed relative constellation error versus constellation size and coding rate for non-ELR | | | | |
| Modulation | Coding rate | Relative constellation error in a UHR MU PPDU (dB) | Relative constellation error in a UHR TB PPDU using RRU when transmit power is larger than the maximum power of UHR-MCS 7 (dB) | Relative constellation error in a UHR TB PPDU using RRU when transmit power is less than or equal to the maximum power of UHR-MCS 7 (dB) |
|
| BPSK | 1/2 | –5 | –13 | –27 |
| QPSK | 1/2 | –10 | –13 | –27 |
| QPSK | 2/3 | –12 | –13 | –27 |
| QPSK | 3/4 | –13 | –13 | –27 |
| 16-QAM | 1/2 | –16 | –16 | –27 |
| 16-QAM | 2/3 | –18 | –18 | –27 |
| 16-QAM | 3/4 | –19 | –19 | –27 |
| 16-QAM | 5/6 | -20 | -20 | -27 |
| 64-QAM | 2/3 | –22 | –22 | –27 |
| 64-QAM | 3/4 | –25 | –25 | –27 |
| 64-QAM | 5/6 | –27 | –27 | –27 |
| 256-QAM | 2/3 | –29 | –29 | –29 |
| 256-QAM | 3/4 | –30 | –30 | –30 |
| 256-QAM | 5/6 | –32 | –32 | –32 |
| 1024-QAM | 3/4 | –35 | –35 | –35 |
| 1024-QAM | 5/6 | –35 | –35 | –35 |
| 4096-QAM | 3/4 | –38 | –38 | –38 |
| 4096-QAM | 5/6 | –38 | –38 | –38 |
| BPSK-DCM (UHR-MCS 15) | 1/2 | –5 | –13 | –27 |
|  |  |  |  |  |
| NOTE 1—The maximum power of UHR-MCS 7 can be measured by setting the UL Target Receive Power subfield as defined in Table 9-29j (UL Target Receive Power subfield in Trigger frame) in the Trigger frame to 127 for the RU for which the EVM test is conducted.  NOTE 2—N/A = not supported by the PPDU format. | | | | |

*Instruction to TGbn Editor: Update 11bn D0.3 P342L13 as shown below:*

UHR-MCS 15 is supported only with *Nss,u* = 1.

## Straw Poll

Do you support to instruct the TGbn Editor to update the 11bn amendment with the proposed text updates specified in 11-25/1369r1 (removes residual text on MCS 14)?

[End of File]