

Ms V Joyce

Question 4.1: Do you agree with our proposal to conduct a market led award through an auction process for licensed use of the 2.3 and 3.4 GHz bands? If not, please provide evidence to counter this proposal.:

No, there has been no proposal to safeguard the frequencies of 2400-2483.5 that are used by people with hearing aids and accessories, cochlear implant users and radio aid wearers. This has implications under the Equality Act 2010, UN Human Rights Convention 1976 and the European Rights of the Child 1989.

Question 4.2: Do you agree that we should not offer arrangements for aggregate bidding for low power use for these release bands? If you believe we should make such arrangements, please provide supporting evidence.:

Question 6.1: Do you have evidence to challenge our methodology and assumptions, which show the number of Wi-Fi routers likely to be affected by LTE interference is low?:

No clear investigation has been made on the effect this would have for hearing aid wearers, cochlear implant wearers and the use of further assistive devices eg radio aids.

Question 6.2: Do you have evidence to challenge our methodology and assumptions, which show the number of Wi-Fi client devices affected by LTE interference is low?:

Question 6.3: Do you agree with our assessment of the available options for mitigation of interference to home networks?:

Question 6.4: Do you agree with our assessment of the available options for mitigation of interference to public networks (both indoor and outdoor)?:

Question 6.5: Do you agree with our assessment of the available options for mitigation of interference to Enterprise Networks?:

Question 6.6: Do you agree with our conclusion that the impact to Wi-Fi is not of a significant nature and therefore no regulatory intervention is necessary? If not, can you provide evidence?:

Protection is needed for the bandwidths used by hearing aids. For example I cannot risk my child's radio aid system connected to his cochlear implants having interference when I use it on health and safety grounds when out and about.

Question 7.1: Do you agree that we do not need to perform technical analysis on the applications in the middle of the band as set out in paragraph 7.7?:

No I do not agree with this lack of assessment

Question 7.2: Do you agree with our technical analysis in relation to Bluetooth devices operating in the 2.4 GHz band, and that no additional restrictions are required in order to protect these applications?:

No- see above responses regarding risk to hearing aid and cochlear implant users.

Question 7.3: Do you agree with our technical analysis in relation to ZigBee devices operating in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

Question 7.4: Do you agree with our technical analysis in relation to video sender devices operating in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

Question 7.5: Do you agree with our technical analysis in relation to radio microphones devices operating in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

No I do not agree there has not been adequate investigation on the risk to thousands of children and adults wearing hearing aids, cochlear implants and radio aids

Question 7.6: Do you agree with our technical analysis in relation to short range devices operating in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

No I do not agree- as above

Question 7.7: Do you agree with our technical analysis in relation to medical devices operating in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

Question 7.8: Do you agree with our technical analysis in relation to emergency services use in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

Question 7.9: Do you agree with our technical analysis in relation to hearing aids and assisted listening devices operating in the 2.4 GHz band and that no additional restrictions are required in order to protect these applications?:

No I disagree- there is a large panic over these proposals amongst deaf people- you cannot do a complex stakeholder consultation like this without making it more user friendly so that people can identify the relevant issues easily

Question 8.1: Do you agree that the available mitigations address the potential shortfall of spectrum for PMSE at major events and that no additional

regulatory intervention is necessary to protect PMSE in frequencies adjacent to the award bands?:

Question 8.2: Do you agree that PMSE should have some continuing access to spectrum in the 3.4 GHz band until new services are rolled out in an area?:

Question 8.3: Which option for the provision of information about the roll-out of new services is most the appropriate? Should the requirement to supply information apply only in designated locations?:

Question 8.4: Do you agree that any continuing access should be limited to five years from the award of new 2.3 and 3.4 GHz licences?:

Question 8.5: Do you agree with our assessment that there is little incremental benefit in on-going PMSE access to the 2.3 GHz award band?:

Question 10.1: Do you agree with our proposal that no coordination procedure is necessary in respect to maritime radar?:

Question 11.1: Do you agree with our proposal to require coordination procedures for the 3.4 GHz band - in order to protect of air traffic control radar - in line with those applied to the 2.6 GHz band?:

Question 12.1: Do you agree that for mobile satellite services operating in the band between 2170 and 2200 MHz, coexistence with LTE operating in the award bands above 2.35 GHz is unlikely to be an interference problem?:

Question 12.2: Do you agree that satellite services operating in the band 2483.5 MHz to 2500 MHz can co-exist with LTE operating in the award bands (i.e. 2350 to 2390 MHz and 3410 to 3590 MHz) and there is unlikely to be an interference problem?:

Question 12.3: Do you agree with that for satellite services operating between 2200 and 2290 MHz, coexistence with LTE operating in the release bands is unlikely to be an interference problem?:

Question 12.4: Do you agree that for amateur satellite services operating between 2400 and 2450 MHz, coexistence with unwanted/out of band emissions of LTE operating in the release bands (the nearest release band is 2350 to 2390 MHz) is unlikely to be a greater problem than the current in-band interference from licence exempt and ISM uses?:

Question 12.5: Do you agree with our preferred option to adopt our proposed mask with informal co-operation on a case-by-case basis if required?:

Question 13.1 Do you agree with our preference not to have a transitional region between blocks for licences in the 2.3 GHz band?:

Question 13.2: Do you agree with our preference not to have a transitional region between blocks for licences in the 3.4 GHz band?:

Question 13.3: Do you agree with our preference to not require synchronisation between different networks in the frequency band?:

Question 13.4: Do you agree with our preference to include both the permissive (unsynchronised) and restrictive (synchronised) masks within the TLCs in the 2.3 GHz band?:

Question 13.5: Do you agree with our preference to include both the permissive (unsynchronised) and restrictive (synchronised) masks within the TLCs in the 3.4 GHz band?:

Question 13.6: Do you agree with our preference to not require synchronisation between different networks in the frequency band?:

Question 13.7: Do you agree with our proposed maximum in band power limit for base stations in the 2.3 GHz band?:

Question 13.8: Do you agree with our proposed maximum in band power limit for user terminals in the 2.3 GHz band?:

No

Question 13.9: Do you agree with our proposed maximum in band power limit for base stations in the 3.4 GHz band?:

Question 13.10: Do you agree with our proposed maximum in band power limit for user terminals in the 3.4 GHz band:

Question 14.1: Do you agree with our approach that it is not necessary to impose any guard bands or restricted blocks in order to manage the adjacencies between the incumbent UK Broadband and new users of spectrum to be awarded in the 3.4 GHz band?:

Question 14.2: Do you agree with our approach to require UK Broadband to have the same coordination requirements as other users of the band?:

