| **Section/Description** | **SOR Article**  **Number** | **Scoring** | | | | | **Score** | **Reference in Technical Bid** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. Mandatory General Equipment Requirements | | | | | | | | |
| 4.8 Licenses | | | | | | | | |
| Excluding new features or capabilities, Offerors should provide the duration, in months, for which radio equipment is eligible for firmware/software upgrades at no cost to the Authorized User. | 4.8.1.1 | **18 points** awarded if the radio equipment is eligible for firmware/software upgrades at no cost to the Authorized User for 36 months or more.  **12 points** awarded if the radio equipment is eligible for firmware/software upgrades at no cost to the Authorized User for more than 23 months but less than 36 months.  **6 points** awarded if the radio equipment is eligible for firmware/software upgrades at no cost to the Authorized User for more than 11 months but less than 24 months.  **0 points** awarded if the radio equipment is eligible for firmware/software upgrades at no cost to the Authorized User for less than 12 months.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 18):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| 5. Equipment Specifications | | | | | | | | |
| 5.8 Encryption Keys | | | | | | | | |
| Preferably, the Keys should be stored within a cryptographic module in the Radio equipment in a manner which conforms at FIPS 140-2 Level 2 or 3 security. | 5.8.1.1 | **24 points** awarded if the Keys are stored within a cryptographic module in the Radio equipment in a manner which conforms at FIPS 140-2 Level 3.  **18 points** awarded if the Keys are stored within a cryptographic module in the Radio equipment in a manner which conforms at FIPS 140-2 Level 2.  **0 points** awarded if the Keys are stored within a cryptographic module in the Radio equipment in a manner which conforms at FIPS 140-2 Level 1.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 24):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| Preferably, 17 or more unique active and 17 or more unique inactive traffic encryption keys should be supported in each radio equipment unit. | 5.8.3.1 | **6 points** awarded if 17 or more unique active and 17 or more unique inactive traffic encryption keys are supported in each SU.  **0 points** awarded if 16 unique active and 16 unique inactive traffic encryption keys are supported in each SU.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| 5.12 Over The Air Programming | | | | | | | | |
| radio equipment should support Over The Air Programming (OTAP) functionality. | 5.12.1 | **6 points** awarded if radio equipment supports Over The Air Programming (OTAP) functionality.  **0 points** awarded if radio equipment does not support Over The Air Programming (OTAP) functionality.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| OTAP process should not apply radio programming changes, to the radio equipment, without notifying the radio equipment user of any impacts to radio equipment`s operations and explicit radio equipment user intervention at the time of change. | 5.12.2 | **12 points** awarded if OTAP process does not interfere with normal radio operations on the SU without explicit consent from the subscriber user at time of change.  **0 points** awarded if OTAP interferes with normal radio operations on the SU without explicit consent from the subscriber user at time of change.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 12):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| The OTAP application should maintain a log of all changes made, including who made the changes, radio(s) affected and configuration parameter(s) affected. | 5.12.3 | **6 points** awarded if the OTAP application maintains a log of all changes made, including who made the changes, radio(s) affected and configuration parameter(s) affected.  **0 points** awarded if the OTAP application does not maintain a log of all changes made, including who made the changes, radio(s) affected and configuration parameter(s) affected.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| 5.14 Radio Programming | | | | | | | | |
| Preferably, the same radio programming software should be used to provision Mobile and Portable Radios. | 5.14.1.1 | **6 points** awarded if the the same radio programming software is used to provision Mobile and Portable Radios..  **0 points** awarded if the the same radio programming software cannot be used to provision Mobile and Portable Radios.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 6 to determine the overall Article Score. | | | | |  |  |
| **Portable Score:** | | **Mobile Score:** | | |
| **VHF** | | | | | |
|  | + | |  | = |  |
| **UHF** | | | | | |
|  | + | |  | = |  |
| **700/800** | | | | | |
|  | + | |  | = |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 6 | | | | = |
| 6. Portable Radio Specific Requirements | | | | | | | | |
| 6.1 General | | | | | | | | |
| Preferably, Portable Radio should have an audio output of 1 Watt at no more than 1.5% audio distortion level. | 6.1.2.1 | **6 points** awarded if Portable Radio has an audio output of 1 Watt or more at no more than 1.5% audio distortion level.  **0 points** awarded if Portable Radio has an audio output of 0.5 Watt at no more than 1.5% audio distortion level.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| 6.3 Battery | | | | | | | | |
| Offerors should provide an extra high capacity rechargeable battery that will last in excess of 12 hours in encrypted mode, based on 5-5-90 duty cycle. On P25 channels stand-by time is defined as the period of time that the SU is monitoring the assigned control channel. | 6.3.2.1 | **6 points** awarded if the Offerors can provide an extra high capacity rechargeable battery that will last in excess of 12 hours.  **0 points** awarded if the Offerors can provide an extra high capacity rechargeable battery that will last 12 hours.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| 6.4 Physical Specifications | | | | | | | | |
| Offerors should specify the weight in grams of the portable radio with standard antenna and high capacity Li-Ion battery as per section 6.3.2 of the SOR. | 6.4.1.1 | **15 points** awarded to the lightest portable radio in category.  **0 points** awarded for the heaviest portable radio in categrory.  **0 to 15** points awarded based on equation below and all offeror’s responses.  Comparison based rating: (Max. Points 15) Points Awarded =  Max Points x ((WeightHeaviest SU - WeigthRated SU) / (WeightHeaviest SU - WeightLightest SU))  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| Offerors should specify in centimeters cubed (cm3 ) the volume of the portable radio(s), excluding clips and antenna, with high capacity Li-Ion battery attached as per section 6.3.2 of the SOR. | 6.4.1.2 | **15 points** awarded to the smallest portable radio in category.  **0 points** awarded for the biggest portable radio in categrory.  **0 to 15** points awarded based on equation below and all offeror’s responses.  Comparison based rating: (Max. Points 15)  Points Awarded = Max Points x ((VolumeBiggest SU - VolumeRated SU) / (VolumeBiggest SU - VolumeSmallest SU))  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score(Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| Offerors should specify in millimeters (mm) the height of the portable radio(s), with antenna and high capacity Li-Ion battery attached as per section 6.3.2 of the SOR. | 6.4.1.3 | **15 points** awarded to the smallest height portable radio in category.  **0 points** awarded for the tallest height portable radio in categrory.  **0 to 15** points awarded based on equation below and all offeror’s responses.  Comparison based rating: (Max. Points 15) Points Awarded = Max Points x ((HeightBiggest SU - HeightRated SU) / HeightBiggest SU - HeightSmallest SU))  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score(Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | = |
| 6.8 Visual Display and Audible Indicators | | | | | | | | |
| The number of characters per line that can be displayed on the alphanumeric screen of the Portable radio should be higher than 8. | 6.8.3.1 | **15 points** awarded if number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is 11 or more.  **10 points** awarded if number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is between 9 and 10.  **0 points** awarded if the number of characters per line that can be displayed on the alphanumeric screen of the Portable radio is 8.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| Portable radio should be equipped with a top facing alphanumeric display. | 6.8.12 | **15 points** awarded if portable radio is equipped with a top facing alphanumeric display.  **0 points** awarded if portable radio is not equipped with a top facing alphanumeric display.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score(Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| It should be possible to enable, disable and configure the audible alert and useable threshold level defined in 6.8.16 through the radio programming software. | 6.8.16.1 | **15 points** awarded if it is possible to enable, disable and configure the audible alert and useable threshold level defined in 6.8.16 through the radio programming software.  **0 points** awarded if it is not possible to enable, disable and configure the audible alert and useable threshold level defined in 6.8.16 through the radio programming software.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | = |
| 6.9 Capacity | | | | | | | | |
| Portable radio should have a capacity of 513 or more modes of operation (talkgroups/channels) that permit programming of various frequency channels, modes of modulation. | 6.9.1.1 | **6 points** awarded if the Portable radio has a capacity of 513 or more modes of operation.  **0 points** awarded if the Portable radio has a capacity of 512 modes of operation.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | = |
| 7. Mobile Radio Specific Requirements | | | | | | | | |
| 7.1 General | | | | | | | | |
| Mobile radio mode/primary talkgroup selection should be via a single rotary control that is physically separate from the volume adjustment rotary control mentioned in 7.1.6. | 7.1.7.1 | **6 points** awarded if the Mobile radio has a rotary mode/primary talkgroup selector that is physically separate from the volume adjustment rotary control.  **0 points** awarded if the Mobile radio does not have a rotary mode/primary talkgroup selector that is physically separate from the volume adjustment rotary control.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | **=** |
| 7.3 Physical Specifications | | | | | | | | |
| Offerors should specify in centimeters (cm) the height, length and depth with mounting bracket attached for each mobile radio(s) . Should two or more mobile radios be required to meet the dual band or multi band requirement streams, the dimensions should include all required units. | 7.3.2 | **15 points** awarded to the smallest mobile radio by volume in category.  **0 points** awarded for the biggest mobile radio by volume in categrory.  **0 to 15 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Max. Points 15)  Points Awarded = Max Points x ((VolumeLargest SU - VolumeRated SU) / (VolumeLargest SU - VolumeSmallest SU))  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | = |
| 7.5 Mobile Radio Component Configurations | | | | | | | | |
| A single control head should be capable of controlling multiple Mobile Radios. | 7.5.4.3 | **6 points** awarded ifa single control head is capable of controlling multiple Mobile Radios.  **0 points** awarded ifa single control head is not capable of controlling multiple Mobile Radios.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 6):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | = |
| 7.7 Visual Display and Audible Indicators | | | | | | | | |
| It should be possible to enable, disable and configure the audible alert and useable threshold level defined in 7.7.10 through the radio programming software. | 7.7.10.1 | **15 points** awarded if it is possible to enable, disable and configure the audible alert and useable threshold level defined in 7.7.10 through the radio programming software.  **0 points** awarded if it is not possible to enable, disable and configure the audible alert and useable threshold level defined in 7.7.10 through the radio programming software.  Points will be awarded in each of the 3 bands for each piece of radio equipment. The totals from each of the 3 bands will be added and divided by 3 to determine the overall Article Score. | | | | |  |  |
| VHF Score: | | | | |  |
| UHF Score: | | | | |  |
| 700/800 Score: | | | | |  |
| **Article Score (Max Pts. 15):** | | | | |  |
| (VHF+UHF+700/800 Scores) / 3 | | | | = |
| 8. Band Specific Requirements | | | | | | | | |
| 8.2 768-776 MHz, 798-806 MHz, 806-824 MHz and 851-869 MHz (700/800) Band Specific SU Requirements | | | | | | | | |
| 8.2.3 Portable Radio RF Specifications | | | | | | | | |
| Preferably exceed Sensitivity (digital) of 0.25 µv (-119 dBm) 5% BER | 8.2.3.3.1.1 | **7 points** awarded to the most sensitive portable radio in category.  **0 points** awarded for the least sensitive portable radio in categrory.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Sensitivity** Points Awarded = Max Points x {(SensitivityRated SU - SensitivityLeast Sens. SU) / (SensitivityMost Sens. SU - SensitivityLeast Sens. SU)} | | | | |  |  |
| 700/800 Portable Sensitivity Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed Inter modulation rejection of -70 dB (TIA/EIA 102) | 8.2.3.3.2.1 | **7 points** awarded to the portable radio with the highest Inter modulation refejction in category.  **0 points** awarded for the portable radio with the lowest Inter modulation refejction in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Inter Modulation rejection** Points Awarded = Max Points x {(InterModRated SU - InterModLeast Reject. SU) / (InterModMostReject. SU - InterModLeast Reject. SU)} | | | | |  |  |
| 700/800 Portable Inter Mod. Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed adjacent channel selectivity of -60 dB (TIA/EIA 102) | 8.2.3.3.3.1 | **7 points** awarded to the portable radio with the highest adjacent channel selectivity in category.  **0 points** awarded to the portable radio with the lowest adjacent channel selectivity in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Adjacent channel selectivity** Points Awarded = Max Points x {(AdjacencyRated SU - AdjacencyLeast Adj. SU) / (AdjacencyMost Adj. SU - AdjacencyLeast Adj. SU)} | | | | |  |  |
| 700/800 Portable Adj. Ch. Select Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed spurious response rejection of -70 dB | 8.2.3.3.4.1 | **7 points** awarded to the portable radio with the highest spurious response rejection in category.  **0 points** awarded to the portable radio with the lowest spurious response rejection in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Spurious response rejection** Points Awarded = Max Points x {(RejectionRated SU - RejectionLeast Reject SU) / (RejectionHighest Reject SU - RejectionLeast Reject SU)} | | | | |  |  |
| 700/800 Portable Spurious Resp. Article Score **(Max Pts. 7):** | | | | |  |
| Overall Portable 700/800 (Sensitivity+Adj. Ch. Select+Inter Mod.+Spurious Resp.) Score **(Max Pts. 28):** | | | | | | |  |  |
| 8.2.4 Mobile Radio RF Specifications | | | | | | | | |
| Preferably exceed Sensitivity (digital) of 0.25 µv (-119 dBm) 5% BER | 8.2.4.3.1.1 | **7 points** awarded to the most sensitive mobile radio in category.  **0 points** awarded for the least sensitive mobile radio in categrory.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Sensitivity** Points Awarded = Max Points x {(SensitivityRated SU - SensitivityLeast Sens. SU) / (SensitivityMost Sens. SU - SensitivityLeast Sens. SU)} | | | | |  |  |
| 700/800 Mobile Sensitivity Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed Inter modulation rejection of -75 dB (TIA/EIA 102) | 8.2.4.3.2.1 | **7 points** awarded to the mobile radio with the highest Inter modulation refejction in category.  **0 points** awarded for the mobile radio with the lowest Inter modulation refejction in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Inter Modulation rejection** Points Awarded = Max Points x {(InterModRated SU - InterModLeast Reject. SU) / (InterModMostReject. SU - InterModLeast Reject. SU)} | | | | |  |  |
| 700/800 Mobile Inter Mod. Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed adjacent channel selectivity of -60 dB (TIA/EIA 102) | 8.2.4.3.3.1 | **7 points** awarded to the mobile radio with the highest adjacent channel selectivity in category.  **0 points** awarded to the mobile radio with the lowest adjacent channel selectivity in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Adjacent channel selectivity** Points Awarded = Max Points x {(AdjacencyRated SU - AdjacencyLeast Adj. SU) / (AdjacencyMost Adj. SU - AdjacencyLeast Adj. SU)} | | | | |  |  |
| 700/800 Mobile Adj. Ch. Select Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed spurious response rejection of -80 dB | 8.2.4.3.4.1 | **7 points** awarded to the mobile radio with the highest spurious response rejection in category.  **0 points** awarded to the mobile radio with the lowest spurious response rejection in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Spurious response rejection** Points Awarded = Max Points x {(RejectionRated SU - RejectionLeast Reject SU) / (RejectionHighest Reject SU - RejectionLeast Reject SU)} | | | | |  |  |
| 700/800 Mobile Spurious Resp. Article Score **(Max Pts. 7):** | | | | |  |
| Overall Mobile 700/800 (Sensitivity+Adj. Ch. Select+Inter Mod.+Spurious Resp.) Score **(Max Pts. 28):** | | | | | | |  |  |
| **Overall 700/800 Band ((Overall 700/800 Portable + Overall 700/800 Mobile) / 2) Score** **(Max Pts. 28):** | | | | | | |  |  |
| 8.3 406.1-430 MHz and 450-470 MHz (UHF) Band Specific SU Requirements | | | | | | | | |
| 8.3.3 Portable Radio RF Specifications | | | | | | | | |
| Preferably exceed Sensitivity (digital) of 0.25 µv (-119 dBm) 5% BER | 8.3.3.3.1.1 | **7 points** awarded to the most sensitive portable radio in category.  **0 points** awarded for the least sensitive portable radio in categrory.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Sensitivity** Points Awarded = Max Points x {(SensitivityRated SU - SensitivityLeast Sens. SU) / (SensitivityMost Sens. SU - SensitivityLeast Sens. SU)} | | | | |  |  |
| UHF Portable Sensitivity Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed Inter modulation rejection of -70 dB (TIA/EIA 102) | 8.3.3.3.2.1 | **7 points** awarded to the portable radio with the highest Inter modulation refejction in category.  **0 points** awarded for the portable radio with the lowest Inter modulation refejction in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Inter Modulation rejection** Points Awarded = Max Points x {(InterModRated SU - InterModLeast Reject. SU) / (InterModMostReject. SU - InterModLeast Reject. SU)} | | | | |  |  |
| UHF Portable Inter Mod. Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed adjacent channel selectivity of -60 dB (TIA/EIA 102) | 8.3.3.3.3.1 | **7 points** awarded to the portable radio with the highest adjacent channel selectivity in category.  **0 points** awarded to the portable radio with the lowest adjacent channel selectivity in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Adjacent channel selectivity** Points Awarded = Max Points x {(AdjacencyRated SU - AdjacencyLeast Adj. SU) / (AdjacencyMost Adj. SU - AdjacencyLeast Adj. SU)} | | | | |  |  |
| UHFPortable Adj. Ch. Select Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed spurious response rejection of -70 dB | 8.3.3.3.4.1 | **7 points** awarded to the portable radio with the highest spurious response rejection in category.  **0 points** awarded to the portable radio with the lowest spurious response rejection in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Spurious response rejection** Points Awarded = Max Points x {(RejectionRated SU - RejectionLeast Reject SU) / (RejectionHighest Reject SU - RejectionLeast Reject SU)} | | | | |  |  |
| UHF Portable Spurious Resp. Article Score **(Max Pts. 7):** | | | | |  |
| Overall Portable UHF (Sensitivity+Adj. Ch. Select+Inter Mod.+Spurious Resp.) Score **(Max Pts. 28):** | | | | | | |  |  |
| 8.3.4 Mobile Radio RF Specifications | | | | | | | | |
| Preferably exceed Sensitivity (digital) of 0.25 µv (-119 dBm) 5% BER | 8.3.4.3.1.1 | **7 points** awarded to the most sensitive mobile radio in category.  **0 points** awarded for the least sensitive mobile radio in categrory.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Sensitivity** Points Awarded = Max Points x {(SensitivityRated SU - SensitivityLeast Sens. SU) / (SensitivityMost Sens. SU - SensitivityLeast Sens. SU)} | | | | |  |  |
| UHF Mobile Sensitivity Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed Inter modulation rejection of -75 dB (TIA/EIA 102) | 8.3.4.3.2.1 | **7 points** awarded to the mobile radio with the highest Inter modulation refejction in category.  **0 points** awarded for the mobile radio with the lowest Inter modulation refejction in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Inter Modulation rejection** Points Awarded = Max Points x {(InterModRated SU - InterModLeast Reject. SU) / (InterModMostReject. SU - InterModLeast Reject. SU)} | | | | |  |  |
| UHF Mobile Inter Mod. Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed adjacent channel selectivity of -60 dB (TIA/EIA 102) | 8.3.4.3.3.1 | **7 points** awarded to the mobile radio with the highest adjacent channel selectivity in category.  **0 points** awarded to the mobile radio with the lowest adjacent channel selectivity in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Adjacent channel selectivity** Points Awarded = Max Points x {(AdjacencyRated SU - AdjacencyLeast Adj. SU) / (AdjacencyMost Adj. SU - AdjacencyLeast Adj. SU)} | | | | |  |  |
| UHF Mobile Adj. Ch. Select Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed spurious response rejection of -80 dB | 8.3.4.3.4.1 | **7 points** awarded to the mobile radio with the highest spurious response rejection in category.  **0 points** awarded to the mobile radio with the lowest spurious response rejection in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Spurious response rejection** Points Awarded = Max Points x {(RejectionRated SU - RejectionLeast Reject SU) / (RejectionHighest Reject SU - RejectionLeast Reject SU)} | | | | |  |  |
| UHF Mobile Spurious Resp. Article Score **(Max Pts. 7):** | | | | |  |
| Overall Mobile UHF (Sensitivity+Adj. Ch. Select+Inter Mod.+Spurious Resp.) Score **(Max Pts. 28):** | | | | | | |  |  |
| **Overall UHF Band ((Overall UHF Portable + Overall UHF Mobile) / 2) Score** **(Max Pts. 28):** | | | | | | |  |  |
| 8.4 138-144 MHz and 148-174 MHz (VHF) Band Specific SU Requirements | | | | | | | | |
| 8.4.3 Portable Radio RF Specifications | | | | | | | | |
| Preferably exceed Sensitivity (digital) of 0.22 µv (-120 dBm) 5% BER | 8.4.3.3.1.1 | **7 points** awarded to the most sensitive portable radio in category.  **0 points** awarded for the least sensitive portable radio in categrory.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Sensitivity** Points Awarded = Max Points x {(SensitivityRated SU - SensitivityLeast Sens. SU) / (SensitivityMost Sens. SU - SensitivityLeast Sens. SU)} | | | | |  |  |
| VHF Portable Sensitivity Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed Inter modulation rejection of -70 dB (TIA/EIA 102) | 8.4.3.3.2.1 | **7 points** awarded to the portable radio with the highest Inter modulation refejction in category.  **0 points** awarded for the portable radio with the lowest Inter modulation refejction in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Inter Modulation rejection** Points Awarded = Max Points x {(InterModRated SU - InterModLeast Reject. SU) / (InterModMostReject. SU - InterModLeast Reject. SU)} | | | | |  |  |
| VHFPortable Inter Mod. Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed adjacent channel selectivity of -60 dB (TIA/EIA 102) | 8.4.3.3.3.1 | **7 points** awarded to the portable radio with the highest adjacent channel selectivity in category.  **0 points** awarded to the portable radio with the lowest adjacent channel selectivity in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Adjacent channel selectivity** Points Awarded = Max Points x {(AdjacencyRated SU - AdjacencyLeast Adj. SU) / (AdjacencyMost Adj. SU - AdjacencyLeast Adj. SU)} | | | | |  |  |
| VHF Portable Adj. Ch. Select Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed spurious response rejection of -70 dB | 8.4.3.3.4.1 | **7 points** awarded to the portable radio with the highest spurious response rejection in category.  **0 points** awarded to the portable radio with the lowest spurious response rejection in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Portable Unit Max. Points 7)  **Spurious response rejection** Points Awarded = Max Points x {(RejectionRated SU - RejectionLeast Reject SU) / (RejectionHighest Reject SU - RejectionLeast Reject SU)} | | | | |  |  |
| VHF Portable Spurious Resp. Article Score **(Max Pts. 7):** | | | | |  |
| Overall Portable VHF (Sensitivity+Adj. Ch. Select+Inter Mod.+Spurious Resp.) Score **(Max Pts. 28):** | | | | | | |  |  |
| 8.4.4 Mobile Radio RF Specifications | | | | | | | | |
| Preferably exceed Sensitivity (digital) of 0.25 µv (-119 dBm) 5% BER | 8.4.4.3.1.1 | **7 points** awarded to the most sensitive mobile radio in category.  **0 points** awarded for the least sensitive mobile radio in categrory.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Sensitivity** Points Awarded = Max Points x {(SensitivityRated SU - SensitivityLeast Sens. SU) / (SensitivityMost Sens. SU - SensitivityLeast Sens. SU)} | | | | |  |  |
| VHF Mobile Sensitivity Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed Inter modulation rejection of -75 dB (TIA/EIA 102) | 8.4.4.3.2.1 | **7 points** awarded to the mobile radio with the highest Inter modulation refejction in category.  **0 points** awarded for the mobile radio with the lowest Inter modulation refejction in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Inter Modulation rejection** Points Awarded = Max Points x {(InterModRated SU - InterModLeast Reject. SU) / (InterModMostReject. SU - InterModLeast Reject. SU)} | | | | |  |  |
| VHF Mobile Inter Mod. Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed adjacent channel selectivity of -60 dB (TIA/EIA 102) | 8.4.4.3.3.1 | **7 points** awarded to the mobile radio with the highest adjacent channel selectivity in category.  **0 points** awarded to the mobile radio with the lowest adjacent channel selectivity in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7  **Adjacent channel selectivity** Points Awarded = Max Points x {(AdjacencyRated SU - AdjacencyLeast Adj. SU) / (AdjacencyMost Adj. SU - AdjacencyLeast Adj. SU)} | | | | |  |  |
| VHF Mobile Adj. Ch. Select Article Score **(Max Pts. 7):** | | | | |  |
| Preferably exceed spurious response rejection of -80 dB | 8.4.4.3.4.1 | **7 points** awarded to the mobile radio with the highest spurious response rejection in category.  **0 points** awarded to the mobile radio with the lowest spurious response rejection in category.  **0 to 7 points** awarded based on equation below and all offeror’s responses.  Comparison based rating: (Mobile Unit Max. Points 7)  **Spurious response rejection** Points Awarded = Max Points x {(RejectionRated SU - RejectionLeast Reject SU) / (RejectionHighest Reject SU - RejectionLeast Reject SU)} | | | | |  |  |
| VHF Mobile Spurious Resp. Article Score **(Max Pts. 7):** | | | | |  |
| Overall Mobile VHF (Sensitivity+Adj. Ch. Select+Inter Mod.+Spurious Resp.) Score **(Max Pts. 28):** | | | | | | |  |  |
| **Overall VHF Band ((Overall VHF Portable + Overall VHF Mobile) / 2) Score (Max Pts. 28):** | | | | | | |  |
| **Overall Band ((Overall 700/800 Band + Overall UHF Band + Overall VHF Band) / 3) Score (Max Pts. 28):** | | | | | | |  |
| TOTAL: |  | 256 POINTS AVAILABLE | | | | |  |