**Licitación No. IFT-11**

**Apéndice I. Grupos de Frecuencias en la Banda 400 MHz.**

**Plan de canalización a 25 kHz de los segmentos 410-415 / 420-425 MHz.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Grupo 1** | | **Grupo 2** | | **Grupo 3** | | **Grupo 4** | | **Grupo 5** | | **Grupo 6** | | **Grupo 7** | | **Grupo 8** | |
| ***Circuito*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** |
| 1 | 410.025 | 420.025 | 410.050 | 420.050 | 410.075 | 420.075 | 410.100 | 420.100 | 410.125 | 420.125 | 410.150 | 420.150 | 410.175 | 420.175 | 410.200 | 420.200 |
| 2 | 410.225 | 420.225 | 410.250 | 420.250 | 410.275 | 420.275 | 410.300 | 420.300 | 410.325 | 420.325 | 410.350 | 420.350 | 410.375 | 420.375 | 410.400 | 420.400 |
| 3 | 410.425 | 420.425 | 410.450 | 420.450 | 410.475 | 420.475 | 410.500 | 420.500 | 410.525 | 420.525 | 410.550 | 420.550 | 410.575 | 420.575 | 410.600 | 420.600 |
| 4 | 410.625 | 420.625 | 410.650 | 420.650 | 410.675 | 420.675 | 410.700 | 420.700 | 410.725 | 420.725 | 410.750 | 420.750 | 410.775 | 420.775 | 410.800 | 420.800 |
| 5 | 410.825 | 420.825 | 410.850 | 420.850 | 410.875 | 420.875 | 410.900 | 420.900 | 410.925 | 420.925 | 410.950 | 420.950 | 410.975 | 420.975 | 411.000 | 421.000 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Grupo 9** | | **Grupo 10** | | **Grupo 11** | | **Grupo 12** | | **Grupo 13** | | **Grupo 14** | | **Grupo 15** | | **Grupo 16** | |
| ***Circuito*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** |
| 1 | 411.025 | 421.025 | 411.050 | 421.050 | 411.075 | 421.075 | 411.100 | 421.100 | 411.125 | 421.125 | 411.150 | 421.150 | 411.175 | 421.175 | 411.200 | 421.200 |
| 2 | 411.225 | 421.225 | 411.250 | 421.250 | 411.275 | 421.275 | 411.300 | 421.300 | 411.325 | 421.325 | 411.350 | 421.350 | 411.375 | 421.375 | 411.400 | 421.400 |
| 3 | 411.425 | 421.425 | 411.450 | 421.450 | 411.475 | 421.475 | 411.500 | 421.500 | 411.525 | 421.525 | 411.550 | 421.550 | 411.575 | 421.575 | 411.600 | 421.600 |
| 4 | 411.625 | 421.625 | 411.650 | 421.650 | 411.675 | 421.675 | 411.700 | 421.700 | 411.725 | 421.725 | 411.750 | 421.750 | 411.775 | 421.775 | 411.800 | 421.800 |
| 5 | 411.825 | 421.825 | 411.850 | 421.850 | 411.875 | 421.875 | 411.900 | 421.900 | 411.925 | 421.925 | 411.950 | 421.950 | 411.975 | 421.975 | 412.000 | 422.000 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Grupo 17** | | **Grupo 18** | | **Grupo 19** | | **Grupo 20** | | **Grupo 21** | | **Grupo 22** | | **Grupo 23** | | **Grupo 24** | |
| ***Circuito*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** |
| 1 | 412.025 | 422.025 | 412.050 | 422.050 | 412.075 | 422.075 | 412.100 | 422.100 | 412.125 | 422.125 | 412.150 | 422.150 | 412.175 | 422.175 | 412.200 | 422.200 |
| 2 | 412.225 | 422.225 | 412.250 | 422.250 | 412.275 | 422.275 | 412.300 | 422.300 | 412.325 | 422.325 | 412.350 | 422.350 | 412.375 | 422.375 | 412.400 | 422.400 |
| 3 | 412.425 | 422.425 | 412.450 | 422.450 | 412.475 | 422.475 | 412.500 | 422.500 | 412.525 | 422.525 | 412.550 | 422.550 | 412.575 | 422.575 | 412.600 | 422.600 |
| 4 | 412.625 | 422.625 | 412.650 | 422.650 | 412.675 | 422.675 | 412.700 | 422.700 | 412.725 | 422.725 | 412.750 | 422.750 | 412.775 | 422.775 | 412.800 | 422.800 |
| 5 | 412.825 | 422.825 | 412.850 | 422.850 | 412.875 | 422.875 | 412.900 | 422.900 | 412.925 | 422.925 | 412.950 | 422.950 | 412.975 | 422.975 | 413.000 | 423.000 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Grupo 25** | | **Grupo 26** | | **Grupo 27** | | **Grupo 28** | | **Grupo 29** | | **Grupo 30** | | **Grupo 31** | | **Grupo 32** | |
| ***Circuito*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** |
| 1 | 413.025 | 423.025 | 413.050 | 423.050 | 413.075 | 423.075 | 413.100 | 423.100 | 413.125 | 423.125 | 413.150 | 423.150 | 413.175 | 423.175 | 413.200 | 423.200 |
| 2 | 413.225 | 423.225 | 413.250 | 423.250 | 413.275 | 423.275 | 413.300 | 423.300 | 413.325 | 423.325 | 413.350 | 423.350 | 413.375 | 423.375 | 413.400 | 423.400 |
| 3 | 413.425 | 423.425 | 413.450 | 423.450 | 413.475 | 423.475 | 413.500 | 423.500 | 413.525 | 423.525 | 413.550 | 423.550 | 413.575 | 423.575 | 413.600 | 423.600 |
| 4 | 413.625 | 423.625 | 413.650 | 423.650 | 413.675 | 423.675 | 413.700 | 423.700 | 413.725 | 423.725 | 413.750 | 423.750 | 413.775 | 423.775 | 413.800 | 423.800 |
| 5 | 413.825 | 423.825 | 413.850 | 423.850 | 413.875 | 423.875 | 413.900 | 423.900 | 413.925 | 423.925 | 413.950 | 423.950 | 413.975 | 423.975 | 414.000 | 424.000 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Grupo 33** | | **Grupo 34** | | **Grupo 35** | | **Grupo 36** | | **Grupo 37** | | **Grupo 38** | | **Grupo 39** | | **Grupo 40** | |
| ***Circuito*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** | ***Rx*** | ***Tx*** |
| 1 | 414.025 | 424.025 | 414.050 | 424.050 | 414.075 | 424.075 | 414.100 | 424.100 | 414.125 | 424.125 | 414.150 | 424.150 | 414.175 | 424.175 | 414.200 | 424.200 |
| 2 | 414.225 | 424.225 | 414.250 | 424.250 | 414.275 | 424.275 | 414.300 | 424.300 | 414.325 | 424.325 | 414.350 | 424.350 | 414.375 | 424.375 | 414.400 | 424.400 |
| 3 | 414.425 | 424.425 | 414.450 | 424.450 | 414.475 | 424.475 | 414.500 | 424.500 | 414.525 | 424.525 | 414.550 | 424.550 | 414.575 | 424.575 | 414.600 | 424.600 |
| 4 | 414.625 | 424.625 | 414.650 | 424.650 | 414.675 | 424.675 | 414.700 | 424.700 | 414.725 | 424.725 | 414.750 | 424.750 | 414.775 | 424.775 | 414.800 | 424.800 |
| 5 | 414.825 | 424.825 | 414.850 | 424.850 | 414.875 | 424.875 | 414.900 | 424.900 | 414.925 | 424.925 | 414.950 | 424.950 | 414.975 | 424.975 | ND | ND |

**ND: No disponible**

**Notas:**

1. Cada Grupo de Frecuencias representa 0.25 MHz de espectro acumulado, salvo el caso del Grupo 40 que tendrá disponibles 0.20 MHz.
2. Las frecuencias mostradas en el plan de canalización representan la portadora central, donde la frecuencia de Tx corresponde a la estación transmisora y la frecuencia de Rx al equipo suscriptor.
3. Para las entidades federativas fronterizas del norte de la República Mexicana, solo se podrán utilizar las frecuencias comprendidas entre los grupos 9 al 24, acorde al Protocolo bilateral entre México y Estados Unidos firmado el 27 de julio de 2005[[1]](#footnote-2).

1. IFT. (2005). *Protocolo entre la Secretaría de Comunicaciones y Transportes de los Estados Unidos Mexicanos y el Department of State de los Estados Unidos de América, relativo a la adjudicación y uso de la banda de 406.1-420 MHz, para servicios fijo y móvil a lo largo de la frontera común*. Consultado el 25 de noviembre de 2021, de: <http://www.ift.org.mx/sites/default/files/industria/asuntos-internacionales/protocolo4061420mhzesp27jul05.pdf>. [↑](#footnote-ref-2)