



312 File Number: **SATAMD2018013100013**

Filing Description

| Question | Response |
|-------------|---|
| Description | The Boeing Company requests authority to launch and operate a non-geostationary satellite orbit ("NGSO") fixed satellite service ("FSS") system operating in V-band with inter-satellite service links operating in Ka-band and V-band. |

**Satellite
Information**

| Question | Response |
|--|-------------------------|
| Select Orbit Type | NGSO |
| Space Station or Satellite Network Name | V-band Constellation |
| Estimated Lifetime of Satellite(s) From Date of Launch | 10 Years |
| Will the space station(s) operate on a Common Carrier basis? | No |

Operating Frequency Bands (17)

| Nature of service | Description | Frequency Band (s) | Mode Type |
|--|-------------------------|-----------------------------|-----------|
| Fixed-Satellite Service | | 47200.0 MHz -50200.0 MHz | Receive |
| Fixed-Satellite Service | | 50400.0 MHz -51400.0 MHz | Receive |
| Fixed-Satellite Service | | 37500.0 MHz -42000.0 MHz | Transmit |
| Other Satellite Service (please specify) | Inter-Satellite Service | 17800.0 MHz -19300.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 19700.0 MHz -20200.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 27500.0 MHz -29100.0 MHz | Transmit |
| Other Satellite Service (please specify) | Inter-Satellite Service | 29500.0 MHz -30000.0 MHz | Transmit |
| Other Satellite Service (please specify) | Inter-Satellite Service | 37500.0 MHz -40000.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 40000.0 MHz -42000.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 47200.0 MHz -50200.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 50400.0 MHz -51400.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 47200.0 MHz -50200.0 MHz | Transmit |
| Other Satellite Service (please specify) | Inter-Satellite Service | 50400.0 MHz -51400.0 MHz | Transmit |
| Other Satellite Service (please specify) | Inter-Satellite Service | 65000.0 MHz -68000.0 MHz | Transmit |
| Other Satellite Service (please specify) | Inter-Satellite Service | 65000.0 MHz -68000.0 MHz | Receive |
| Other Satellite Service (please specify) | Inter-Satellite Service | 68000.0 MHz -71000.0 MHz | Receive |

| | | | |
|---|----------------------------|-----------------------------|----------|
| Other Satellite Service (please specify) | Inter-Satellite Service | 68000.0 MHz -71000.0 MHz | Transmit |
|---|----------------------------|-----------------------------|----------|

**Orbital
Information For
Non-
Geostationary
Satellites**

| Question | Response |
|--|------------|
| Total Number of Satellites in the active constellation | 147 |
| Orbit Epoch Date | 01/01/2018 |
| Celestial Reference Body | Earth |

Orbital Plane 1:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 1 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 277.4 degrees |
| Argument of Perigee | 270.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 40004.7 km |
| Perigee | 31571.5 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 291.6 |

Orbital Plane 2:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 1 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 349.4 degrees |
| Argument of Perigee | 270.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 40004.7 km |
| Perigee | 31571.5 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |

Active Service Arc End Angle with respect to Ascending Node 63.4 degrees

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
|------------------|--|

| | |
|---|-------|
| 1 | 219.5 |
|---|-------|

Orbital Plane 3:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 1 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 61.3 degrees |
| Argument of Perigee | 270.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 40004.7 km |
| Perigee | 31571.5 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
|------------------|--|

| | |
|---|-------|
| 1 | 147.6 |
|---|-------|

Orbital Plane 4:

| Question | Response |
|-----------------------------------|---------------|
| Number of Satellites in Plane | 1 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 133.4 degrees |

| | |
|---|-----------------|
| Argument of Perigee | 270.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 40004.7 km |
| Perigee | 31571.5 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 75.6 |

Orbital Plane 5:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 1 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 205.4 degrees |
| Argument of Perigee | 270.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 40004.7 km |
| Perigee | 31571.5 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
|------------------|--|

| | |
|---|-----|
| 1 | 3.6 |
|---|-----|

Orbital Plane 6:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 2 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 277.4 degrees |
| Argument of Perigee | 180.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 44221.4 km |
| Perigee | 27354.9 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 288.0 |
| 2 | 129.0 |

Orbital Plane 7:

| Question | Response |
|-----------------------------------|-----------------|
| Number of Satellites in Plane | 2 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 349.4 degrees |
| Argument of Perigee | 180.0 degrees |
| Orbital Period | 86170.5 seconds |

| | |
|---|---------------|
| Apogee | 44221.4 km |
| Perigee | 27354.9 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 56.9 |
| 2 | 215.9 |

Orbital Plane 8:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 2 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 61.3 degrees |
| Argument of Perigee | 180.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 44221.4 km |
| Perigee | 27354.9 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 345.0 |
| 2 | 144.0 |

Orbital Plane 9:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 2 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 133.4 degrees |
| Argument of Perigee | 180.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 44221.4 km |
| Perigee | 27354.9 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 273.1 |
| 2 | 72.1 |

Orbital Plane 10:

| Question | Response |
|-----------------------------------|-----------------|
| Number of Satellites in Plane | 2 |
| Inclination Angle | 63.4 degrees |
| Right Ascension of Ascending Node | 205.4 degrees |
| Argument of Perigee | 180.0 degrees |
| Orbital Period | 86170.5 seconds |
| Apogee | 44221.4 km |
| Perigee | 27354.9 km |

| | |
|---|---------------|
| Active Service Arc Begin Angle with respect to Ascending Node | -63.4 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 63.4 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 201.1 |
| 2 | 0.1 |

Orbital Plane 11:

| Question | Response |
|---|----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 327.3 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 30.0 |
| 2 | 0.0 |
| 3 | 60.0 |
| 4 | 90.0 |
| 5 | 120.0 |

| | |
|-----------|-------|
| 6 | 150.0 |
| 7 | 180.0 |
| 8 | 210.0 |
| 9 | 240.0 |
| 10 | 270.0 |
| 11 | 300.0 |
| 12 | 330.0 |

Orbital Plane 12:

| Question | Response |
|---|----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 294.5 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 330.0 |
| 2 | 300.0 |
| 3 | 0.0 |
| 4 | 30.0 |
| 5 | 60.0 |

| | |
|-----------|-------|
| 6 | 90.0 |
| 7 | 120.0 |
| 8 | 150.0 |
| 9 | 180.0 |
| 10 | 210.0 |
| 11 | 240.0 |
| 12 | 270.0 |

Orbital Plane 13:

| Question | Response |
|---|----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 261.8 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|------------------|--|
| 1 | 330.0 |
| 2 | 300.0 |
| 3 | 0.0 |
| 4 | 30.0 |
| 5 | 60.0 |

| | |
|-----------|-------|
| 6 | 90.0 |
| 7 | 120.0 |
| 8 | 150.0 |
| 9 | 180.0 |
| 10 | 210.0 |
| 11 | 240.0 |
| 12 | 270.0 |

Orbital Plane 14:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 229.1 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 300.0 |
| 3 | 0.0 |
| 4 | 30.0 |
| 5 | 60.0 |

| | |
|-----------|-------|
| 6 | 90.0 |
| 7 | 120.0 |
| 8 | 150.0 |
| 9 | 180.0 |
| 10 | 210.0 |
| 11 | 240.0 |
| 12 | 270.0 |

Orbital Plane 15:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 196.4 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 300.0 |
| 2 | 330.0 |
| 3 | 0.0 |
| 4 | 30.0 |
| 5 | 60.0 |

| | |
|-----------|-------|
| 6 | 90.0 |
| 7 | 120.0 |
| 8 | 150.0 |
| 9 | 180.0 |
| 10 | 210.0 |
| 11 | 240.0 |
| 12 | 270.0 |

Orbital Plane 16:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 163.6 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 0.0 |
| 3 | 30.0 |
| 4 | 60.0 |
| 5 | 90.0 |

| | |
|-----------|-------|
| 6 | 120.0 |
| 7 | 150.0 |
| 8 | 180.0 |
| 9 | 210.0 |
| 10 | 240.0 |
| 11 | 270.0 |
| 12 | 300.0 |

Orbital Plane 17:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 130.9 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 0.0 |
| 3 | 30.0 |
| 4 | 60.0 |
| 5 | 90.0 |

| | |
|-----------|-------|
| 6 | 120.0 |
| 7 | 150.0 |
| 8 | 180.0 |
| 9 | 210.0 |
| 10 | 240.0 |
| 11 | 270.0 |
| 12 | 300.0 |

Orbital Plane 18:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 98.2 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 0.0 |
| 3 | 30.0 |
| 4 | 60.0 |
| 5 | 90.0 |

| | |
|-----------|-------|
| 6 | 120.0 |
| 7 | 150.0 |
| 8 | 180.0 |
| 9 | 210.0 |
| 10 | 240.0 |
| 11 | 270.0 |
| 12 | 300.0 |

Orbital Plane 19:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 65.5 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 0.0 |
| 3 | 30.0 |
| 4 | 60.0 |
| 5 | 90.0 |

| | |
|-----------|-------|
| 6 | 120.0 |
| 7 | 150.0 |
| 8 | 180.0 |
| 9 | 210.0 |
| 10 | 240.0 |
| 11 | 270.0 |
| 12 | 300.0 |

Orbital Plane 20:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 32.7 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 0.0 |
| 3 | 30.0 |
| 4 | 60.0 |
| 5 | 90.0 |

| | |
|-----------|-------|
| 6 | 120.0 |
| 7 | 150.0 |
| 8 | 180.0 |
| 9 | 210.0 |
| 10 | 240.0 |
| 11 | 270.0 |
| 12 | 300.0 |

Orbital Plane 21:

| Question | Response |
|---|-----------------|
| Number of Satellites in Plane | 12 |
| Inclination Angle | 54.0 degrees |
| Right Ascension of Ascending Node | 0.0 degrees |
| Argument of Perigee | 0.0 degrees |
| Orbital Period | 6379.1 seconds |
| Apogee | 1056.0 km |
| Perigee | 1056.0 km |
| Active Service Arc Begin Angle with respect to Ascending Node | -54.0 degrees |
| Active Service Arc End Angle with respect to Ascending Node | 54.0 degrees |

Mean Anomaly For Each Satellite

| Satellite Number | Mean Anomaly (degrees) at the Orbit Epoch Date |
|-------------------------|---|
| 1 | 330.0 |
| 2 | 0.0 |
| 3 | 30.0 |
| 4 | 60.0 |
| 5 | 90.0 |

| | |
|----------|-------|
| 6 | 120.0 |
|----------|-------|

| | |
|----------|-------|
| 7 | 150.0 |
|----------|-------|

| | |
|----------|-------|
| 8 | 180.0 |
|----------|-------|

| | |
|----------|-------|
| 9 | 210.0 |
|----------|-------|

| | |
|-----------|-------|
| 10 | 240.0 |
|-----------|-------|

| | |
|-----------|-------|
| 11 | 270.0 |
|-----------|-------|

| | |
|-----------|-------|
| 12 | 300.0 |
|-----------|-------|

Receiving Beams 1:

| Question | Response |
|---|--|
| Beam ID | G2L0 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 55.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 25.3 dB/K |
| Min. Saturation Flux Density | -149.0 dBW/m2 |
| Max. Saturation Flux Density | -69.6 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 2:

| Question | Response |
|--------------------------|------------------------------|
| Beam ID | G2R0 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 55.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |

| | |
|---|--|
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 25.3 dB/K |
| Min. Saturation Flux Density | -149.0 dBW/m2 |
| Max. Saturation Flux Density | -69.6 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 3:

| Question | Response |
|---|--|
| Beam ID | G3L0 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 55.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 25.3 dB/K |
| Min. Saturation Flux Density | -149.0 dBW/m2 |
| Max. Saturation Flux Density | -69.6 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 4:

| Question | Response |
|---|--|
| Beam ID | L2L0 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 49.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 19.1 dB/K |
| Min. Saturation Flux Density | -113.8 dBW/m ² |
| Max. Saturation Flux Density | -68.1 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 5:

| Question | Response |
|--------------------------|------------------------------|
| Beam ID | G3R0 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 55.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |

| | |
|---|--|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 25.3 dB/K |
| Min. Saturation Flux Density | -149.0 dBW/m2 |
| Max. Saturation Flux Density | -69.6 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 6:

| Question | Response |
|---|---|
| Beam ID | GTLC |
| Receive Beam Frequency | 51150.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | -25.5 dB/K |
| Min. Saturation Flux Density | -110.6 dBW/m2 |
| Max. Saturation Flux Density | -70.4 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Receiving Beams 7:

| Question | Response |
|----------|----------|
|----------|----------|

| | |
|---|---|
| Beam ID | GTRC |
| Receive Beam Frequency | 51150.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | -25.5 dB/K |
| Min. Saturation Flux Density | -110.6 dBW/m ² |
| Max. Saturation Flux Density | -70.4 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Receiving Beams 8:

| Question | Response |
|---|------------------------------|
| Beam ID | L2L1 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 42.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |

| | |
|------------------------------|--|
| G/T at Max. Gain Point | 11.5 dB/K |
| Min. Saturation Flux Density | -106.2 dBW/m2 |
| Max. Saturation Flux Density | -61.5 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 9:

| Question | Response |
|---|---|
| Beam ID | LTLC |
| Receive Beam Frequency | 51150.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | -25.5 dB/K |
| Min. Saturation Flux Density | -107.5 dBW/m2 |
| Max. Saturation Flux Density | -61.5 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Receiving Beams 10:

| Question | Response |
|----------|----------|
| Beam ID | L2R0 |

| | |
|---|--|
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 49.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 19.1 dB/K |
| Min. Saturation Flux Density | -113.8 dBW/m2 |
| Max. Saturation Flux Density | -68.1 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 11:

| Question | Response |
|---|------------------------------|
| Beam ID | L2R1 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 42.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 11.5 dB/K |

| | |
|------------------------------|--|
| Min. Saturation Flux Density | -106.2 dBW/m ² |
| Max. Saturation Flux Density | -61.5 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

**Receiving
Beams 12:**

| Question | Response |
|---|--|
| Beam ID | L3L0 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 49.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 19.1 dB/K |
| Min. Saturation Flux Density | -113.8 dBW/m ² |
| Max. Saturation Flux Density | -68.1 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

**Receiving
Beams 13:**

| Question | Response |
|------------------------|--------------------------|
| Beam ID | L3L1 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |

| | |
|---|--|
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 42.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 11.5 dB/K |
| Min. Saturation Flux Density | -106.2 dBW/m2 |
| Max. Saturation Flux Density | -61.5 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 14:

| Question | Response |
|---|------------------------------|
| Beam ID | L3R0 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 49.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 19.1 dB/K |
| Min. Saturation Flux Density | -113.8 dBW/m2 |

| | |
|------------------------------|--|
| Max. Saturation Flux Density | -68.1 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 15:

| Question | Response |
|---|--|
| Beam ID | L3R1 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 42.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 11.5 dB/K |
| Min. Saturation Flux Density | -106.2 dBW/m ² |
| Max. Saturation Flux Density | -61.5 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Receiving Beams 16:

| Question | Response |
|------------------------|------------------------------|
| Beam ID | LTRC |
| Receive Beam Frequency | 51150.0 MHz -51400.0 MHz |
| Beam Type | Both Steerable and Shapeable |

| | |
|---|---|
| Polarization | RHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | -25.5 dB/K |
| Min. Saturation Flux Density | -107.5 dBW/m2 |
| Max. Saturation Flux Density | -61.5 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

**Receiving
Beams 17:**

| Question | Response |
|---|--------------------------|
| Beam ID | X4L0 |
| Receive Beam Frequency | 17800.0 MHz -19300.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 40.4 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 14.0 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |

| | |
|--------------------------|--|
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Receiving Beams 18:

| Question | Response |
|---|--|
| Beam ID | X5L0 |
| Receive Beam Frequency | 19700.0 MHz -20200.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 40.4 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 14.0 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Receiving Beams 19:

| Question | Response |
|------------------------|--------------------------|
| Beam ID | X4R0 |
| Receive Beam Frequency | 17800.0 MHz -19300.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |

| | |
|---|--|
| Peak Gain | 40.4 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 14.0 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

**Receiving
Beams 20:**

| Question | Response |
|---|--------------------------|
| Beam ID | X5R0 |
| Receive Beam Frequency | 19700.0 MHz -20200.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 40.4 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 14.0 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |

| | |
|--------------------------|--|
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |
|--------------------------|--|

Receiving Beams 21:

| Question | Response |
|---|--|
| Beam ID | X6L0 |
| Receive Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 45.4 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 18.5 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Receiving Beams 22:

| Question | Response |
|------------------------|--------------------------|
| Beam ID | X7L0 |
| Receive Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 45.4 dBi |

| | |
|---|--|
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 18.5 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Receiving Beams 23:

| Question | Response |
|---|--------------------------|
| Beam ID | X6R0 |
| Receive Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 45.4 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 18.5 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |

| | |
|--------------------------|--|
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |
|--------------------------|--|

Receiving Beams 24:

| Question | Response |
|---|--|
| Beam ID | X7R0 |
| Receive Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 45.4 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 18.5 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Receiving Beams 25:

| Question | Response |
|------------------------|--------------------------|
| Beam ID | XAL1 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 45.8 dBi |

| | |
|---|---|
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 17.8 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

**Receiving
Beams 26:**

| Question | Response |
|---|--------------------------|
| Beam ID | XBL1 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 45.8 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 17.8 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |

| | |
|--------------------------|---|
| Service Area Description | Visible LEO satellites within the constellation |
|--------------------------|---|

Receiving Beams 27:

| Question | Response |
|---|---|
| Beam ID | XAR1 |
| Receive Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 45.8 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 17.8 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m ² |
| Max. Saturation Flux Density | -999.8 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Receiving Beams 28:

| Question | Response |
|------------------------|--------------------------|
| Beam ID | XBR1 |
| Receive Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 45.8 dBi |

| | |
|---|---|
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 17.8 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

**Receiving
Beams 29:**

| Question | Response |
|---|--------------------------|
| Beam ID | XCL1 |
| Receive Beam Frequency | 65000.0 MHz -68000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 48.6 dBi |
| Antenna Pointing Error | 0.07 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 20.6 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |

| | |
|--------------------------|---|
| Service Area Description | Visible LEO satellites within the constellation |
|--------------------------|---|

Receiving Beams 30:

| Question | Response |
|---|---|
| Beam ID | XDL1 |
| Receive Beam Frequency | 68000.0 MHz -71000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 48.6 dBi |
| Antenna Pointing Error | 0.07 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 20.6 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m ² |
| Max. Saturation Flux Density | -999.8 dBW/m ² |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Receiving Beams 31:

| Question | Response |
|------------------------|--------------------------|
| Beam ID | XCR1 |
| Receive Beam Frequency | 65000.0 MHz -68000.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 48.6 dBi |

| | |
|---|---|
| Antenna Pointing Error | 0.07 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 20.6 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

**Receiving
Beams 32:**

| Question | Response |
|---|--------------------------|
| Beam ID | XDR1 |
| Receive Beam Frequency | 68000.0 MHz -71000.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 48.6 dBi |
| Antenna Pointing Error | 0.07 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| G/T at Max. Gain Point | 20.6 dB/K |
| Min. Saturation Flux Density | -999.9 dBW/m2 |
| Max. Saturation Flux Density | -999.8 dBW/m2 |
| Co- or Cross Polar Mode | C |

Service Area Description

Visible LEO satellites within the constellation

Receiving Channels (25)

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|------------|-------------------------|--------------------------|-----------------------------------|
| VX15 | 3000.0 | 69500.0 | Service Link |
| VX04 | 2000.0 | 41000.0 | Service Link |
| KX01 | 1500.0 | 18550.0 | Service Link |
| KX02 | 1500.0 | 18550.0 | Service Link |
| KX03 | 500.0 | 19950.0 | Service Link |
| KX04 | 500.0 | 19950.0 | Service Link |
| VX01 | 2500.0 | 38750.0 | Service Link |
| VX02 | 2500.0 | 38750.0 | Service Link |
| VX03 | 2000.0 | 41000.0 | Service Link |
| VF01 | 3000.0 | 48700.0 | Feeder Link |
| VF02 | 3000.0 | 48700.0 | Feeder Link |
| VS04 | 1000.0 | 50900.0 | Service Link |
| VS03 | 1000.0 | 50900.0 | Service Link |
| VS02 | 3000.0 | 48700.0 | Service Link |
| VS01 | 3000.0 | 48700.0 | Service Link |
| VF04 | 1000.0 | 50900.0 | Feeder Link |
| VTC | 250.0 | 51275.0 | TT&C |
| VF03 | 1000.0 | 50900.0 | Feeder Link |
| VX09 | 3000.0 | 48700.0 | Service Link |
| VX10 | 3000.0 | 48700.0 | Service Link |
| VX11 | 1000.0 | 50900.0 | Service Link |
| VX12 | 1000.0 | 50900.0 | Service Link |
| VX13 | 3000.0 | 66500.0 | Service Link |
| VX14 | 3000.0 | 66500.0 | Service Link |

VX16

3000.0

69500.0

Service Link

Transmitting Beams 1:

| Question | Response |
|---|---|
| Beam ID | LTLT |
| Transmit Beam Frequency | 41750.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -31.1 dBW/Hz |
| Max. Transmit EIRP | 12.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -118.0 | -115.5 | -113.0 | -110.5 | -108.0 | -108.0 |

Transmitting Beams 2:

| Question | Response |
|-------------------------|--------------------------|
| Beam ID | G0L0 |
| Transmit Beam Frequency | 37500.0 MHz -40000.0 MHz |

| | |
|---|--|
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 55.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -1.8 dBW/Hz |
| Max. Transmit EIRP | 92.2 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -120.0 | -116.3 | -112.5 | -108.8 | -105.0 | -105.0 |

Transmitting Beams 3:

| Question | Response |
|-------------------------|------------------------------|
| Beam ID | G0R0 |
| Transmit Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 55.9 dBi |
| Antenna Pointing Error | 0.1 degrees |

| | |
|---|--|
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -1.8 dBW/Hz |
| Max. Transmit EIRP | 92.2 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -120.0 | -116.3 | -112.5 | -108.8 | -105.0 | -105.0 |

Transmitting Beams 4:

| Question | Response |
|---|------------------------------|
| Beam ID | G1L0 |
| Transmit Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 54.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -1.8 dBW/Hz |

| | |
|--------------------------|--|
| Max. Transmit EIRP | 91.2 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -115.0 | -112.5 | -110.0 | -107.5 | -105.0 | -105.0 |

Transmitting Beams 5:

| Question | Response |
|---|--|
| Beam ID | G1R0 |
| Transmit Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 54.9 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -1.8 dBW/Hz |
| Max. Transmit EIRP | 91.2 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -115.0 | -112.5 | -110.0 | -107.5 | -105.0 | -105.0 |

Transmitting Beams 6:

| Question | Response |
|---|---|
| Beam ID | GTLT |
| Transmit Beam Frequency | 41750.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -4.5 dBW/Hz |
| Max. Transmit EIRP | 36.3 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| | | | | | | |

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| 1.0 | -118.0 | -115.5 | -113.0 | -110.5 | -108.0 | -108.0 |
| MHz | | | | | | |

Transmitting Beams 7:

| Question | Response |
|---|--|
| Beam ID | LOLO |
| Transmit Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 49.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -33.6 dBW/Hz |
| Max. Transmit EIRP | 60.4 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 | -120.0 | -116.3 | -112.5 | -108.8 | -105.0 | -105.0 |
| MHz | | | | | | |

Transmitting Beams 8:

| Question | Response |
|----------|----------|
|----------|----------|

| | |
|---|--|
| Beam ID | L0L1 |
| Transmit Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 42.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -28.1 dBW/Hz |
| Max. Transmit EIRP | 65.9 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) |
| * BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -120.0 | -116.3 | -112.5 | -108.8 | -105.0 | -105.0 |

Transmitting Beams 9:

| Question | Response |
|-------------------------|------------------------------|
| Beam ID | L0R0 |
| Transmit Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |

| | |
|---|--|
| Peak Gain | 49.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -33.6 dBW/Hz |
| Max. Transmit EIRP | 60.4 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| * | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -120.0 | -116.3 | -112.5 | -108.8 | -105.0 | -105.0 |

Transmitting Beams 10:

| Question | Response |
|--------------------------|------------------------------|
| Beam ID | L0R1 |
| Transmit Beam Frequency | 37500.0 MHz -40000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 42.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |

| | |
|---|--|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -28.1 dBW/Hz |
| Max. Transmit EIRP | 65.9 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° (dBW/m ² /BW): | * 5° - 10° (dBW/m ² /BW): | * 10° - 15° (dBW/m ² /BW): | * 15° - 20° (dBW/m ² /BW): | * 20° - 25° (dBW/m ² /BW): | * 25° - 90° (dBW/m ² /BW): |
|----------------|--|---|--|--|--|--|
| 1.0 MHz | -120.0 | -116.3 | -112.5 | -108.8 | -105.0 | -105.0 |

Transmitting Beams 11:

| Question | Response |
|---|------------------------------|
| Beam ID | L1L0 |
| Transmit Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 48.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -33.6 dBW/Hz |
| Max. Transmit EIRP | 59.4 dBW |
| Co- or Cross Polar Mode | C |

Service Area Description

Visible Earth above 25 deg
elevation angle

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| * | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) | (dBW/m ²) |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 | -115.0 | -112.5 | -110.0 | -107.5 | -105.0 | -105.0 |
| MHz | | | | | | |

Transmitting Beams 12:

| Question | Response |
|---|---|
| Beam ID | L1L1 |
| Transmit Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | LHCP |
| Peak Gain | 41.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -28.1 dBW/Hz |
| Max. Transmit EIRP | 64.9 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -115.0 | -112.5 | -110.0 | -107.5 | -105.0 | -105.0 |

Transmitting Beams 13:

| Question | Response |
|---|--|
| Beam ID | L1R0 |
| Transmit Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 48.8 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -33.6 dBW/Hz |
| Max. Transmit EIRP | 59.4 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -115.0 | -112.5 | -110.0 | -107.5 | -105.0 | -105.0 |

Transmitting Beams 14:

| Question | Response |
|---|--|
| Beam ID | L1R1 |
| Transmit Beam Frequency | 40000.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 41.2 dBi |
| Antenna Pointing Error | 0.03 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -28.1 dBW/Hz |
| Max. Transmit EIRP | 64.9 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 25 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -115.0 | -112.5 | -110.0 | -107.5 | -105.0 | -105.0 |

Transmitting Beams 15:

| Question | Response |
|-------------------------|--------------------------|
| Beam ID | LTRT |
| Transmit Beam Frequency | 41750.0 MHz -42000.0 MHz |

| | |
|---|---|
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | No |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -31.1 dBW/Hz |
| Max. Transmit EIRP | 12.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -118.0 | -115.5 | -113.0 | -110.5 | -108.0 | -108.0 |

Transmitting Beams 16:

| Question | Response |
|-------------------------|------------------------------|
| Beam ID | GTRT |
| Transmit Beam Frequency | 41750.0 MHz -42000.0 MHz |
| Beam Type | Both Steerable and Shapeable |
| Polarization | RHCP |
| Peak Gain | 5.0 dBi |
| Antenna Pointing Error | 0.2 degrees |

| | |
|---|---|
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -4.5 dBW/Hz |
| Max. Transmit EIRP | 36.3 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible Earth above 5 deg elevation angle |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -118.0 | -115.5 | -113.0 | -110.5 | -108.0 | -108.0 |

Transmitting Beams 17:

| Question | Response |
|---|--------------------------|
| Beam ID | X1L0 |
| Transmit Beam Frequency | 29500.0 MHz -30000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 43.6 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.0 dBW/Hz |

| | |
|--------------------------|--|
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| * | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |

Transmitting Beams 18:

| Question | Response |
|---|--|
| Beam ID | XOLO |
| Transmit Beam Frequency | 27500.0 MHz -29100.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 43.6 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.0 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |

Transmitting Beams 19:

| Question | Response |
|---|--|
| Beam ID | X0R0 |
| Transmit Beam Frequency | 27500.0 MHz -29100.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 43.6 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.0 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|-----|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| | | | | | | |

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| 1.0 | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |
| MHz | | | | | | |

Transmitting Beams 20:

| Question | Response |
|---|--|
| Beam ID | X1R0 |
| Transmit Beam Frequency | 29500.0 MHz -30000.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 43.6 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.0 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |
| MHz | | | | | | |

Transmitting Beams 21:

| Question | Response |
|----------|----------|
|----------|----------|

| | |
|---|--|
| Beam ID | X2L0 |
| Transmit Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 48.0 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -20.5 dBW/Hz |
| Max. Transmit EIRP | 66.5 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° (dBW/m ²) /BW: | * 5° - 10° (dBW/m ²) /BW: | * 10° - 15° (dBW/m ²) /BW: | * 15° - 20° (dBW/m ²) /BW: | * 20° - 25° (dBW/m ²) /BW: | * 25° - 90° (dBW/m ²) /BW: |
|----------------|--|---|--|--|--|--|
| 1.0 MHz | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |

Transmitting Beams 22:

| Question | Response |
|-------------------------|--------------------------|
| Beam ID | X3L0 |
| Transmit Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |

| | |
|---|--|
| Peak Gain | 48.0 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -20.5 dBW/Hz |
| Max. Transmit EIRP | 66.5 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| * BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |

Transmitting Beams 23:

| Question | Response |
|--------------------------|--------------------------|
| Beam ID | X2R0 |
| Transmit Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 48.0 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |

| | |
|---|--|
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -20.5 dBW/Hz |
| Max. Transmit EIRP | 66.5 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible sky with 2pi steradian field-of-view above the LEO satellite |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| * BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |

Transmitting Beams 24:

| Question | Response |
|---|--------------------------|
| Beam ID | X3R0 |
| Transmit Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 48.0 dBi |
| Antenna Pointing Error | 0.05 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -20.5 dBW/Hz |
| Max. Transmit EIRP | 66.5 dBW |
| Co- or Cross Polar Mode | C |

Service Area Description

Visible sky with 2pi steradian field-of-view above the LEO satellite

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| * | (dbW/m ²) | (dbW/m ²) | (dbW/m ²) | (dbW/m ²) | (dbW/m ²) | (dbW/m ²) |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -130.0 | -126.0 | -124.0 | -122.0 | -122.0 | -122.0 |

Transmitting Beams 25:

| Question | Response |
|---|---|
| Beam ID | X2L1 |
| Transmit Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 45.8 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.4 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |

Transmitting Beams 26:

| Question | Response |
|---|---|
| Beam ID | X3L1 |
| Transmit Beam Frequency | 50400.0 MHz -51400.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 45.8 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.4 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |

Transmitting Beams 27:

| Question | Response |
|---|---|
| Beam ID | X2R1 |
| Transmit Beam Frequency | 47200.0 MHz -50200.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 45.8 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.4 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |

Transmitting Beams 28:

| Question | Response |
|-------------------------|--------------------------|
| Beam ID | X3R1 |
| Transmit Beam Frequency | 50400.0 MHz -51400.0 MHz |

| | |
|---|---|
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 45.8 dBi |
| Antenna Pointing Error | 0.1 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -26.4 dBW/Hz |
| Max. Transmit EIRP | 61.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |

Transmitting Beams 29:

| Question | Response |
|-------------------------|--------------------------|
| Beam ID | X8L1 |
| Transmit Beam Frequency | 65000.0 MHz -68000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 48.6 dBi |
| Antenna Pointing Error | 0.07 degrees |

| | |
|---|---|
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -23.6 dBW/Hz |
| Max. Transmit EIRP | 64.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| * BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |

Transmitting Beams 30:

| Question | Response |
|---|--------------------------|
| Beam ID | X9L1 |
| Transmit Beam Frequency | 68000.0 MHz -71000.0 MHz |
| Beam Type | Steerable |
| Polarization | LHCP |
| Peak Gain | 48.6 dBi |
| Antenna Pointing Error | 0.07 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -23.6 dBW/Hz |

| | |
|--------------------------|---|
| Max. Transmit EIRP | 64.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

Max. Power Flux Density

| | * 0° - 5° | * 5° - 10° | * 10° - 15° | * 15° - 20° | * 20° - 25° | * 25° - 90° |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| * | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² | (dBW/m ² |
| BW: | /BW): | /BW): | /BW): | /BW): | /BW): | /BW): |
| 1.0 MHz | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |

Transmitting Beams 31:

| Question | Response |
|---|---|
| Beam ID | X8R1 |
| Transmit Beam Frequency | 65000.0 MHz -68000.0 MHz |
| Beam Type | Steerable |
| Polarization | RHCP |
| Peak Gain | 48.6 dBi |
| Antenna Pointing Error | 0.07 degrees |
| Antenna Rotational Error | 0.0 degrees |
| Polarization Switchable | |
| Polarization Alignment Relative to the Equatorial Plane | 45.0 degrees |
| Max. Transmit EIRP Density | -23.6 dBW/Hz |
| Max. Transmit EIRP | 64.0 dBW |
| Co- or Cross Polar Mode | C |
| Service Area Description | Visible LEO satellites within the constellation |

| | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|
| 1.0 | -133.0 | -129.0 | -127.0 | -125.0 | -125.0 | -125.0 |
| MHz | | | | | | |

Transmitting Channels (26)

| Channel ID | Channel Bandwidth (MHz) | Center Frequency s (MHz) | Feeder Link, Service Link or TT&C |
|------------|-------------------------|--------------------------|-----------------------------------|
| VX08 | 1000.0 | 50900.0 | Service Link |
| KX05 | 1600.0 | 28300.0 | Service Link |
| KX06 | 1600.0 | 28300.0 | Service Link |
| KX07 | 500.0 | 29750.0 | Service Link |
| VX24 | 3000.0 | 69500.0 | Service Link |
| VX17 | 3000.0 | 48700.0 | Service Link |
| VX18 | 3000.0 | 48700.0 | Service Link |
| VX19 | 1000.0 | 50900.0 | Service Link |
| VX20 | 1000.0 | 50900.0 | Service Link |
| VX21 | 3000.0 | 66500.0 | Service Link |
| VX22 | 3000.0 | 66500.0 | Service Link |
| VX23 | 3000.0 | 69500.0 | Service Link |
| VTT2 | 250.0 | 41875.0 | TT&C |
| VS06 | 2500.0 | 38750.0 | Service Link |
| VS07 | 2000.0 | 41000.0 | Service Link |
| VTT1 | 250.0 | 41875.0 | TT&C |
| VS08 | 2000.0 | 41000.0 | Service Link |
| VF05 | 2500.0 | 38750.0 | Feeder Link |
| VF06 | 2500.0 | 38750.0 | Feeder Link |
| VF07 | 2000.0 | 41000.0 | Feeder Link |
| VF08 | 2000.0 | 41000.0 | Feeder Link |
| VS05 | 2500.0 | 38750.0 | Service Link |
| VX07 | 1000.0 | 50900.0 | Service Link |
| VX06 | 3000.0 | 48700.0 | Service Link |

| | | | |
|-------------|--------|---------|--------------|
| VX05 | 3000.0 | 48700.0 | Service Link |
| KX08 | 500.0 | 29750.0 | Service Link |

Certification Questions

| Question | Response |
|--|------------|
| <p>Are the applicable service area coverage requirements of 25.143(b)(2) (ii) and (iii), or 25.144(a)(3)(i), or 25.145 (c)(1) and (2), or 25.146(i)(1) and (2), or 25.148(c), or 25.225 met?</p> | <p>Yes</p> |
| <p>Are the applicable frequency tolerances of 25.202(e) and out-of-band emission limits of 25.202(f)(1),(2), and (3) met?</p> | <p>Yes</p> |
| <p>Are the cessation of emissions requirements of 25.207 met?</p> | <p>Yes</p> |
| <p>Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?</p> | <p>Yes</p> |
| <p>For NGSO applications, are the applicable equivalent-power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?</p> | <p>N/A</p> |
| <p>Are the applicable full-frequency-reuse requirements of 25.210 met?</p> | <p>Yes</p> |
| <p>If the application is for a 17/24 GHz BSS space station, will it be operated at an offset location with full power and interference protection in accordance with 25.262(b)?</p> | |

Attachments

| File Name | Beam | Field | Attachment Type | Description |
|--|------|------------------------------|------------------|-------------|
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X4L0 | NGSO Antenna Gain Data | PDF file (*.pdf) | |
| <u>LTRC.gxt</u> | LTRC | NGSO Antenna Gain Data | GXT file (*.gxt) | |
| <u>L3R1.gxt</u> | L3R1 | NGSO Antenna Gain Data | GXT file (*.gxt) | |
| <u>L3R0.gxt</u> | L3R0 | NGSO Antenna Gain Data | GXT file (*.gxt) | |
| <u>L3L1.gxt</u> | L3L1 | NGSO Antenna Gain Data | GXT file (*.gxt) | |
| <u>L3L0.gxt</u> | L3L0 | NGSO Antenna Gain Data | GXT file (*.gxt) | |
| <u>L2R1.gxt</u> | L2R1 | NGSO Antenna Gain Data | GXT file (*.gxt) | |
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X7R0 | NGSO Antenna Gain Data | PDF file (*.pdf) | |
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X6R0 | NGSO Antenna Gain Data | PDF file (*.pdf) | |
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X6L0 | NGSO Antenna Gain Data | PDF file (*.pdf) | |
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X7L0 | NGSO Antenna Gain Data | PDF file (*.pdf) | |
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X5R0 | NGSO Antenna Gain Data | PDF file (*.pdf) | |

| | | | |
|--|------|------------------------------|------------------|
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X5L0 | NGSO Antenna Gain Data | PDF file (*.pdf) |
| <u>Receiving Beam Attachment 7 25 2017.pdf</u> | X4R0 | NGSO Antenna Gain Data | PDF file (*.pdf) |
| <u>G1R0 Rev 01.gxt</u> | G1R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>G1L0 Rev 01.gxt</u> | G1L0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>G0R0 Rev 01.gxt</u> | G0R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>G0L0 Rev 01.gxt</u> | G0L0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>LTRT.gxt</u> | LTRT | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L1R1.gxt</u> | L1R1 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L1R0.gxt</u> | L1R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L1L1.gxt</u> | L1L1 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L1L0.gxt</u> | L1L0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L0R1.gxt</u> | L0R1 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L0R0.gxt</u> | L0R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |

| | | | |
|-----------------|------|------------------------------|------------------|
| <u>L0L1.gxt</u> | L0L1 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L0L0.gxt</u> | L0L0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>GTRT.gxt</u> | GTRT | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>GTLT.gxt</u> | GTLT | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L2R0.gxt</u> | L2R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>LTLC.gxt</u> | LTLC | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L2L1.gxt</u> | L2L1 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>L2L0.gxt</u> | L2L0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>GTLC.gxt</u> | GTLC | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>G3R0.gxt</u> | G3R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>GTRC.gxt</u> | GTRC | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>G3L0.gxt</u> | G3L0 | NGSO Antenna Gain Data | GXT file (*.gxt) |
| <u>G2R0.gxt</u> | G2R0 | NGSO Antenna Gain Data | GXT file (*.gxt) |

G2L0.gxt

G2L0

NGSO
Antenna Gain
Data

GXT file (*.
gxt)

LTLT.gxt

LTLT

NGSO
Antenna Gain
Data

GXT file (*.
gxt)
