

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | |
|---------------------------------|--|---|------------------|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|-------|
| LTE Band 5 1.4MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, Z Position Mode: LTE5 1.4MHz FUND QPSK Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | | Low Ch | | | | | | | | | |
| | | 824.70 | 15.85 | V | 1.1 | -1.5 | 13.25 | 38.5 | -25.2 | | |
| | | 824.70 | 4.03 | H | 1.1 | -1.5 | 1.43 | 38.5 | -37.0 | | |
| | | Mid Ch | | | | | | | | | |
| | | 836.50 | 15.15 | V | 1.1 | -1.4 | 12.66 | 38.5 | -25.8 | | |
| | | 836.50 | 5.82 | H | 1.1 | -1.4 | 3.33 | 38.5 | -35.1 | | |
| | | High Ch | | | | | | | | | |
| | | 844.30 | 13.99 | V | 1.6 | -1.3 | 11.11 | 38.5 | -27.3 | | |
| | | 844.30 | 6.78 | H | 1.6 | -1.3 | 3.90 | 38.5 | -34.5 | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | |
| | LTE Band 5 1.4MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, Z Position Mode: LTE5 1.4MHz FUND 16QAM Test Equipment: Receiving: VULB9163-749, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00164753, 3m SMA Cable Warehouse. | | | | | | | | | |
| | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBd) | ERP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | | Low Ch | | | | | | | | |
| | | 824.70 | 14.85 | V | 1.1 | -1.5 | 12.25 | 38.5 | -26.2 | | |
| | | 824.70 | 3.23 | H | 1.1 | -1.5 | 0.63 | 38.5 | -37.8 | | |
| | | Mid Ch | | | | | | | | | |
| | | 836.50 | 14.16 | V | 1.1 | -1.4 | 11.67 | 38.5 | -26.8 | | |
| | | 836.50 | 4.83 | H | 1.1 | -1.4 | 2.34 | 38.5 | -36.1 | | |
| | | High Ch | | | | | | | | | |
| | | 844.30 | 12.86 | V | 1.1 | -1.3 | 10.48 | 38.5 | -28.0 | | |
| | | 844.30 | 5.88 | H | 1.1 | -1.3 | 3.50 | 38.5 | -35.0 | | |
| | | Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm | | | | | | | | | |

LTE Band 4

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|---|--|---------------------|--------------------|-----------------------|-----------------------|----------------|----------------|----------------|-------|
| LTE Band 4 20MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, QPSK, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1720.00 | 1.62 | V | 1.54 | 9.12 | 9.20 | 30.0 | -20.8 | | |
| | 1720.00 | 10.88 | H | 1.54 | 9.12 | 18.46 | 30.0 | -11.5 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | 1.13 | V | 1.55 | 9.31 | 8.89 | 30.0 | -21.1 | | |
| | 1732.50 | 11.51 | H | 1.55 | 9.31 | 19.27 | 30.0 | -10.7 | | |
| | High Ch | | | | | | | | | |
| | 1745.00 | 1.23 | V | 1.56 | 9.37 | 9.04 | 30.0 | -21.0 | | |
| | 1745.00 | 11.90 | H | 1.56 | 9.37 | 19.71 | 30.0 | -10.3 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 4 20MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, 16QAM, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1720.00 | | 0.58 | V | 1.54 | 9.12 | 8.16 | 30.0 | -21.8 | | |
| 1720.00 | | 9.92 | H | 1.54 | 9.12 | 17.50 | 30.0 | -12.5 | | |
| Mid Ch | | | | | | | | | | |
| 1732.50 | | 0.09 | V | 1.55 | 9.31 | 7.85 | 30.0 | -22.2 | | |
| 1732.50 | | 10.51 | H | 1.55 | 9.31 | 18.27 | 30.0 | -11.7 | | |
| High Ch | | | | | | | | | | |
| 1745.00 | | 0.22 | V | 1.56 | 9.37 | 8.03 | 30.0 | -22.0 | | |
| 1745.00 | | 10.87 | H | 1.56 | 9.37 | 18.68 | 30.0 | -11.3 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|---|--|---|--------------------|--------------------|-----------------------|---------------|----------------|----------------|-------|
| LTE Band 4 15MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, QPSK, 15MHz | | | | | | | | |
| | Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1717.50 | 1.59 | V | 1.54 | 9.12 | 9.17 | 30.0 | -20.8 | |
| | 1717.50 | 10.80 | H | 1.54 | 9.12 | 18.38 | 30.0 | -11.6 | |
| | Mid Ch | | | | | | | | |
| | 1732.50 | 1.02 | V | 1.55 | 9.31 | 8.78 | 30.0 | -21.2 | |
| | 1732.50 | 11.66 | H | 1.55 | 9.31 | 19.42 | 30.0 | -10.6 | |
| | High Ch | | | | | | | | |
| | 1747.50 | 1.38 | V | 1.56 | 9.39 | 9.21 | 30.0 | -20.8 | |
| | 1747.50 | 11.96 | H | 1.56 | 9.39 | 19.79 | 30.0 | -10.2 | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| | LTE Band 4 15MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, 16QAM, 15MHz | | | | | | | |
| Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| f MHz | | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| Low Ch | | | | | | | | | |
| 1717.50 | | 0.63 | V | 1.54 | 9.12 | 8.21 | 30.0 | -21.8 | |
| 1717.50 | | 9.66 | H | 1.54 | 9.12 | 17.24 | 30.0 | -12.8 | |
| Mid Ch | | | | | | | | | |
| 1732.50 | | -0.01 | V | 1.55 | 9.31 | 7.75 | 30.0 | -22.3 | |
| 1732.50 | | 10.61 | H | 1.55 | 9.31 | 18.37 | 30.0 | -11.6 | |
| High Ch | | | | | | | | | |
| 1747.50 | | 0.41 | V | 1.56 | 9.39 | 8.24 | 30.0 | -21.8 | |
| 1747.50 | | 10.99 | H | 1.56 | 9.39 | 18.82 | 30.0 | -11.2 | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | |
|--|---|---|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|-------|
| LTE Band 4 10MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, QPSK, 10MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1715.00 | 1.43 | V | 1.54 | 9.12 | 9.01 | 30.0 | -21.0 | | |
| | 1715.00 | 10.75 | H | 1.54 | 9.12 | 18.33 | 30.0 | -11.7 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | 0.90 | V | 1.55 | 9.31 | 8.66 | 30.0 | -21.3 | | |
| | 1732.50 | 11.55 | H | 1.55 | 9.31 | 19.31 | 30.0 | -10.7 | | |
| | High Ch | | | | | | | | | |
| | 1750.00 | 1.23 | V | 1.56 | 9.40 | 9.07 | 30.0 | -20.9 | | |
| | 1750.00 | 11.97 | H | 1.56 | 9.40 | 19.81 | 30.0 | -10.2 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 4 10MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4 16QAM, 10MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1715.00 | | 0.41 | V | 1.54 | 9.12 | 7.99 | 30.0 | -22.0 | | |
| 1715.00 | | 9.78 | H | 1.54 | 9.12 | 17.36 | 30.0 | -12.6 | | |
| Mid Ch | | | | | | | | | | |
| 1732.50 | | -0.11 | V | 1.55 | 9.31 | 7.65 | 30.0 | -22.4 | | |
| 1732.50 | | 10.51 | H | 1.55 | 9.31 | 18.27 | 30.0 | -11.7 | | |
| High Ch | | | | | | | | | | |
| 1750.00 | | 0.27 | V | 1.56 | 9.40 | 8.11 | 30.0 | -21.9 | | |
| 1750.00 | | 11.00 | H | 1.56 | 9.40 | 18.84 | 30.0 | -11.2 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | |
|--|---|--|---------------------|--------------------|-----------------------|-----------------------|----------------|----------------|----------------|-------|
| LTE Band 4 5MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, QPSK , 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1712.50 | 1.10 | V | 1.54 | 9.12 | 8.68 | 30.0 | -21.3 | | |
| | 1712.50 | 10.60 | H | 1.54 | 9.12 | 18.18 | 30.0 | -11.8 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | 0.53 | V | 1.55 | 9.31 | 8.29 | 30.0 | -21.7 | | |
| | 1732.50 | 11.52 | H | 1.55 | 9.31 | 19.28 | 30.0 | -10.7 | | |
| | High Ch | | | | | | | | | |
| | 1752.50 | 0.69 | V | 1.56 | 9.39 | 8.52 | 30.0 | -21.5 | | |
| | 1752.50 | 11.84 | H | 1.56 | 9.39 | 19.67 | 30.0 | -10.3 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 4 5MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4 16QAM, 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1712.50 | | 0.07 | V | 1.54 | 9.12 | 7.65 | 30.0 | -22.4 | | |
| 1712.50 | | 9.59 | H | 1.54 | 9.12 | 17.17 | 30.0 | -12.8 | | |
| Mid Ch | | | | | | | | | | |
| 1732.50 | | -0.51 | V | 1.55 | 9.31 | 7.25 | 30.0 | -22.8 | | |
| 1732.50 | | 10.51 | H | 1.55 | 9.31 | 18.27 | 30.0 | -11.7 | | |
| High Ch | | | | | | | | | | |
| 1752.50 | | -0.29 | V | 1.56 | 9.39 | 7.54 | 30.0 | -22.5 | | |
| 1752.50 | | 10.86 | H | 1.56 | 9.39 | 18.69 | 30.0 | -11.3 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|-------------------------------|--|--|------------------|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|
| LTE Band 4 3MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4, QPSK, 3MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| | | 1711.50 | 1.05 | V | 1.54 | 9.12 | 8.63 | 30.0 | -21.4 | |
| | | 1711.50 | 10.74 | H | 1.54 | 9.12 | 18.32 | 30.0 | -11.7 | |
| | | Mid Ch | | | | | | | | |
| | | 1732.50 | 0.58 | V | 1.55 | 9.31 | 8.34 | 30.0 | -21.7 | |
| | | 1732.50 | 11.56 | H | 1.55 | 9.31 | 19.32 | 30.0 | -10.7 | |
| | | High Ch | | | | | | | | |
| | | 1753.50 | 0.56 | V | 1.56 | 9.38 | 8.38 | 30.0 | -21.6 | |
| | | 1753.50 | 11.88 | H | 1.56 | 9.38 | 19.70 | 30.0 | -10.3 | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| | LTE Band 4 3MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4 16QAM, 3MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| | | Low Ch | | | | | | | | |
| | | 1711.50 | 0.05 | V | 1.54 | 9.12 | 7.63 | 30.0 | -22.4 | |
| | | 1711.50 | 9.69 | H | 1.54 | 9.12 | 17.27 | 30.0 | -12.7 | |
| | | Mid Ch | | | | | | | | |
| | | 1732.50 | -0.41 | V | 1.55 | 9.31 | 7.35 | 30.0 | -22.7 | |
| | | 1732.50 | 10.51 | H | 1.55 | 9.31 | 18.27 | 30.0 | -11.7 | |
| | | High Ch | | | | | | | | |
| | | 1753.50 | -0.49 | V | 1.56 | 9.38 | 7.33 | 30.0 | -22.7 | |
| | | 1753.50 | 10.86 | H | 1.56 | 9.38 | 18.68 | 30.0 | -11.3 | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |

| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | |
|--|---|--|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|-------|
| LTE Band 4 1.4MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4 QPSK, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1710.70 | -0.67 | V | 1.54 | 9.12 | 6.91 | 30.0 | -23.1 | | |
| | 1710.70 | 8.67 | H | 1.54 | 9.12 | 16.25 | 30.0 | -13.8 | | |
| | Mid Ch | | | | | | | | | |
| | 1732.50 | -0.95 | V | 1.55 | 9.31 | 6.81 | 30.0 | -23.2 | | |
| | 1732.50 | 9.53 | H | 1.55 | 9.31 | 17.29 | 30.0 | -12.7 | | |
| | High Ch | | | | | | | | | |
| | 1754.30 | -1.10 | V | 1.56 | 9.37 | 6.71 | 30.0 | -23.3 | | |
| | 1754.30 | 9.79 | H | 1.56 | 9.37 | 17.60 | 30.0 | -12.4 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 4 1.4MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 4 16QAM, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1710.70 | | -1.66 | V | 1.54 | 9.12 | 5.92 | 30.0 | -24.1 | | |
| 1710.70 | | 7.62 | H | 1.54 | 9.12 | 15.20 | 30.0 | -14.8 | | |
| Mid Ch | | | | | | | | | | |
| 1732.50 | | -1.91 | V | 1.55 | 9.31 | 5.85 | 30.0 | -24.2 | | |
| 1732.50 | | 8.51 | H | 1.55 | 9.31 | 16.27 | 30.0 | -13.7 | | |
| High Ch | | | | | | | | | | |
| 1754.30 | | -2.06 | V | 1.56 | 9.37 | 5.75 | 30.0 | -24.3 | | |
| 1754.30 | | 8.79 | H | 1.56 | 9.37 | 16.60 | 30.0 | -13.4 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

LTE Band 2

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--|--|---|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|-------|
| LTE Band 2 20MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 QPSK, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1860.00 | 5.42 | V | 1.60 | 9.12 | 12.94 | 33.0 | -20.1 | | |
| | 1860.00 | 12.03 | H | 1.60 | 9.12 | 19.55 | 33.0 | -13.5 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 6.90 | V | 1.62 | 8.62 | 13.90 | 33.0 | -19.1 | | |
| | 1880.00 | 13.22 | H | 1.62 | 8.62 | 20.22 | 33.0 | -12.8 | | |
| | High Ch | | | | | | | | | |
| | 1900.00 | 5.66 | V | 1.63 | 8.50 | 12.53 | 33.0 | -20.5 | | |
| | 1900.00 | 12.92 | H | 1.63 | 8.50 | 19.79 | 33.0 | -13.2 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 2 20MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 16QAM, 20MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1860.00 | | 4.37 | V | 1.60 | 9.12 | 11.89 | 33.0 | -21.1 | | |
| 1860.00 | | 11.01 | H | 1.60 | 9.12 | 18.53 | 33.0 | -14.5 | | |
| Mid Ch | | | | | | | | | | |
| 1880.00 | | 5.86 | V | 1.62 | 8.62 | 12.86 | 33.0 | -20.1 | | |
| 1880.00 | | 12.21 | H | 1.62 | 8.62 | 19.21 | 33.0 | -13.8 | | |
| High Ch | | | | | | | | | | |
| 1900.00 | | 4.73 | V | 1.63 | 8.50 | 11.60 | 33.0 | -21.4 | | |
| 1900.00 | | 11.86 | H | 1.63 | 8.50 | 18.73 | 33.0 | -14.3 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | |
|--|--|---------------------|-------------------------|--------------------|-----------------------|---------------|----------------|----------------|-------|--|
| LTE Band 2 15MHz QPSK | Company: | | Samsung | | | | | | | |
| | Project #: | | 15K22210 | | | | | | | |
| | Date: | | 11-13-15 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, X Position | | | | | | | |
| | Mode: | | LTE Band 2 QPSK, 15MHz | | | | | | | |
| | Test Equipment: | | | | | | | | | |
| | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | | | |
| | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1857.50 | 4.85 | V | 1.60 | 9.12 | 12.37 | 33.0 | -20.6 | | |
| | 1857.50 | 11.88 | H | 1.60 | 9.12 | 19.40 | 33.0 | -13.6 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 6.57 | V | 1.62 | 8.62 | 13.57 | 33.0 | -19.4 | | |
| 1880.00 | 13.04 | H | 1.62 | 8.62 | 20.04 | 33.0 | -13.0 | | | |
| High Ch | | | | | | | | | | |
| 1902.50 | 5.42 | V | 1.63 | 8.49 | 12.28 | 33.0 | -20.7 | | | |
| 1902.50 | 12.90 | H | 1.63 | 8.49 | 19.76 | 33.0 | -13.2 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |
| LTE Band 2 15MHz 16QAM | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | |
| | Company: | | Samsung | | | | | | | |
| | Project #: | | 15K22210 | | | | | | | |
| | Date: | | 11-13-15 | | | | | | | |
| | Test Engineer: | | Steven.Kim | | | | | | | |
| | Configuration: | | EUT ONLY, X Position | | | | | | | |
| | Mode: | | LTE Band 2 16QAM, 15MHz | | | | | | | |
| | Test Equipment: | | | | | | | | | |
| | Receiving: 3117[00168724] and Chamber 1 SMA Cables | | | | | | | | | |
| | Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1857.50 | 3.83 | V | 1.60 | 9.12 | 11.35 | 33.0 | -21.7 | | |
| | 1857.50 | 10.88 | H | 1.60 | 9.12 | 18.40 | 33.0 | -14.6 | | |
| | Mid Ch | | | | | | | | | |
| 1880.00 | 5.56 | V | 1.62 | 8.62 | 12.56 | 33.0 | -20.4 | | | |
| 1880.00 | 11.97 | H | 1.62 | 8.62 | 18.97 | 33.0 | -14.0 | | | |
| High Ch | | | | | | | | | | |
| 1902.50 | 4.37 | V | 1.63 | 8.49 | 11.23 | 33.0 | -21.8 | | | |
| 1902.50 | 11.86 | H | 1.63 | 8.49 | 18.72 | 33.0 | -14.3 | | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | |
|--------------------------------|--|---|------------------|------------------|-----------------|--------------------|--------------------|-------------|-------------|-------------|
| LTE Band 2 10MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 QPSK, 10MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| | | 1855.00 | 4.40 | V | 1.60 | 9.12 | 11.92 | 33.0 | -21.1 | |
| | | 1855.00 | 11.84 | H | 1.60 | 9.12 | 19.36 | 33.0 | -13.6 | |
| | | Mid Ch | | | | | | | | |
| | | 1880.00 | 6.86 | V | 1.62 | 8.62 | 13.86 | 33.0 | -19.1 | |
| | | 1880.00 | 13.13 | H | 1.62 | 8.62 | 20.13 | 33.0 | -12.9 | |
| | | High Ch | | | | | | | | |
| | | 1905.00 | 5.02 | V | 1.63 | 8.47 | 11.86 | 33.0 | -21.1 | |
| | | 1905.00 | 12.79 | H | 1.63 | 8.47 | 19.63 | 33.0 | -13.4 | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| | LTE Band 2 10MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 16QAM, 10MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| | | Low Ch | | | | | | | | |
| | | 1855.00 | 3.39 | V | 1.60 | 9.12 | 10.91 | 33.0 | -22.1 | |
| | | 1855.00 | 10.73 | H | 1.60 | 9.12 | 18.25 | 33.0 | -14.8 | |
| | | Mid Ch | | | | | | | | |
| | | 1880.00 | 5.87 | V | 1.62 | 8.62 | 12.87 | 33.0 | -20.1 | |
| | | 1880.00 | 12.11 | H | 1.62 | 8.62 | 19.11 | 33.0 | -13.9 | |
| | | High Ch | | | | | | | | |
| | | 1905.00 | 3.99 | V | 1.63 | 8.47 | 10.83 | 33.0 | -22.2 | |
| | | 1905.00 | 11.82 | H | 1.63 | 8.47 | 18.66 | 33.0 | -14.3 | |
| | | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |

| | | High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | |
|--|---|--|---------------------|--------------------|-----------------------|-----------------------|----------------|----------------|----------------|
| LTE Band 2 5MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 QPSK, 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | Low Ch | | | | | | | | |
| | 1852.50 | 4.12 | V | 1.60 | 9.12 | 11.64 | 33.0 | -21.4 | |
| | 1852.50 | 11.66 | H | 1.60 | 9.12 | 19.18 | 33.0 | -13.8 | |
| | Mid Ch | | | | | | | | |
| | 1880.00 | 6.67 | V | 1.62 | 8.62 | 13.67 | 33.0 | -19.3 | |
| | 1880.00 | 12.89 | H | 1.62 | 8.62 | 19.89 | 33.0 | -13.1 | |
| | High Ch | | | | | | | | |
| | 1907.50 | 4.53 | V | 1.63 | 8.46 | 11.36 | 33.0 | -21.6 | |
| | 1907.50 | 12.69 | H | 1.63 | 8.46 | 19.52 | 33.0 | -13.5 | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | |
| | LTE Band 2 5MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 16QAM, 5MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| Low Ch | | | | | | | | | |
| 1852.50 | | 3.40 | V | 1.60 | 9.12 | 10.92 | 33.0 | -22.1 | |
| 1852.50 | | 10.61 | H | 1.60 | 9.12 | 18.13 | 33.0 | -14.9 | |
| Mid Ch | | | | | | | | | |
| 1880.00 | | 5.65 | V | 1.62 | 8.62 | 12.65 | 33.0 | -20.3 | |
| 1880.00 | | 12.03 | H | 1.62 | 8.62 | 19.03 | 33.0 | -14.0 | |
| High Ch | | | | | | | | | |
| 1907.50 | | 3.52 | V | 1.63 | 8.46 | 10.35 | 33.0 | -22.6 | |
| 1907.50 | | 11.78 | H | 1.63 | 8.46 | 18.61 | 33.0 | -14.4 | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |

| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | |
|--|---|--|---------------------|--------------------|-----------------------|-----------------------|----------------|----------------|----------------|-------|
| LTE Band 2 3MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 QPSK, 3MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes | |
| | Low Ch | | | | | | | | | |
| | 1851.50 | 4.36 | V | 1.60 | 9.12 | 11.88 | 33.0 | -21.1 | | |
| | 1851.50 | 11.56 | H | 1.60 | 9.12 | 19.08 | 33.0 | -13.9 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 6.89 | V | 1.62 | 8.62 | 13.89 | 33.0 | -19.1 | | |
| | 1880.00 | 12.83 | H | 1.62 | 8.62 | 19.83 | 33.0 | -13.2 | | |
| | High Ch | | | | | | | | | |
| | 1908.50 | 4.34 | V | 1.63 | 8.45 | 11.16 | 33.0 | -21.8 | | |
| | 1908.50 | 12.68 | H | 1.63 | 8.45 | 19.50 | 33.0 | -13.5 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 2 3MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 16QAM, 3MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Cable Loss (dB) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Notes |
| | | Low Ch | | | | | | | | |
| 1851.50 | | 3.30 | V | 1.60 | 9.12 | 10.82 | 33.0 | -22.2 | | |
| 1851.50 | | 10.52 | H | 1.60 | 9.12 | 18.04 | 33.0 | -15.0 | | |
| Mid Ch | | | | | | | | | | |
| 1880.00 | | 5.86 | V | 1.62 | 8.62 | 12.86 | 33.0 | -20.1 | | |
| 1880.00 | | 11.81 | H | 1.62 | 8.62 | 18.81 | 33.0 | -14.2 | | |
| High Ch | | | | | | | | | | |
| 1908.50 | | 3.35 | V | 1.63 | 8.45 | 10.17 | 33.0 | -22.8 | | |
| 1908.50 | | 11.65 | H | 1.63 | 8.45 | 18.47 | 33.0 | -14.5 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

| High Frequency Substitution Measurement UL Korea, Ltd. Suwon Laboratory Chamber 2 | | | | | | | | | | |
|--|---|--|-----------|------------|--------------|-------|-------|--------|-------|--|
| LTE Band 2 1.4MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 QPSK, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | | |
| | f | SG reading | Ant. Pol. | Cable Loss | Antenna Gain | EIRP | Limit | Margin | Notes | |
| | MHz | (dBm) | (H/V) | (dB) | (dBi) | (dBm) | (dBm) | (dB) | | |
| | Low Ch | | | | | | | | | |
| | 1850.70 | 2.31 | V | 1.60 | 9.12 | 9.83 | 33.0 | -23.2 | | |
| | 1850.70 | 9.74 | H | 1.60 | 9.12 | 17.26 | 33.0 | -15.7 | | |
| | Mid Ch | | | | | | | | | |
| | 1880.00 | 5.00 | V | 1.62 | 8.62 | 12.00 | 33.0 | -21.0 | | |
| | 1880.00 | 11.07 | H | 1.62 | 8.62 | 18.07 | 33.0 | -14.9 | | |
| | High Ch | | | | | | | | | |
| | 1909.30 | 2.43 | V | 1.63 | 8.44 | 9.24 | 33.0 | -23.8 | | |
| | 1909.30 | 10.62 | H | 1.63 | 8.44 | 17.43 | 33.0 | -15.6 | | |
| | Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | |
| | LTE Band 2 1.4MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT ONLY, X Position Mode: LTE Band 2 16QAM, 1.4MHz Test Equipment: Receiving: 3117[00168724] and Chamber 1 SMA Cables Substitution: 3115[00161451] Substitution, 3m SMA Cable Warehouse | | | | | | | | |
| f | | SG reading | Ant. Pol. | Cable Loss | Antenna Gain | EIRP | Limit | Margin | Notes | |
| MHz | | (dBm) | (H/V) | (dB) | (dBi) | (dBm) | (dBm) | (dB) | | |
| Low Ch | | | | | | | | | | |
| 1850.70 | | 1.25 | V | 1.60 | 9.12 | 8.77 | 33.0 | -24.2 | | |
| 1850.70 | | 8.76 | H | 1.60 | 9.12 | 16.28 | 33.0 | -16.7 | | |
| Mid Ch | | | | | | | | | | |
| 1880.00 | | 3.93 | V | 1.62 | 8.62 | 10.93 | 33.0 | -22.1 | | |
| 1880.00 | | 10.02 | H | 1.62 | 8.62 | 17.02 | 33.0 | -16.0 | | |
| High Ch | | | | | | | | | | |
| 1909.30 | | 1.44 | V | 1.63 | 8.44 | 8.25 | 33.0 | -24.7 | | |
| 1909.30 | | 9.64 | H | 1.63 | 8.44 | 16.45 | 33.0 | -16.5 | | |
| Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm | | | | | | | | | | |

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238 and §27.53

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM 850

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | |
|---|------------------|--|---------------|---------------------------|-------------|------------|-------------|------------|-------|
| GSM | GSM850 GPRS | Company: Samsung | | Project #: 15K22210 | | | | | |
| | | Date: 11-13-15 | | Test Engineer: Steven.Kim | | | | | |
| | | Configuration: EUT / AC Adapter / Earphone, Z Position | | Mode: GPRS 850 MHz | | | | | |
| | | Chamber | Pre-amplifier | Filter | Limit | | | | |
| | | Chamber 2 | AFS42 | Filter 1 | Part 22 | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.2MHz | | | | | | | | | |
| 1.6484 | -3.5 | V | 3.0 | 39.1 | 1.0 | -41.6 | -13.0 | -28.6 | |
| 2.4726 | 2.2 | V | 3.0 | 39.5 | 1.0 | -36.3 | -13.0 | -23.3 | |
| 3.2968 | -17.3 | V | 3.0 | 40.1 | 1.0 | -56.4 | -13.0 | -43.4 | |
| 1.6484 | -7.2 | H | 3.0 | 39.1 | 1.0 | -45.3 | -13.0 | -32.3 | |
| 2.4726 | 9.0 | H | 3.0 | 39.5 | 1.0 | -29.5 | -13.0 | -16.5 | |
| 3.2968 | -17.6 | H | 3.0 | 40.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| Mid Ch, 836.6MHz | | | | | | | | | |
| 1.6730 | -2.1 | V | 3.0 | 39.1 | 1.0 | -40.2 | -13.0 | -27.2 | |
| 2.5098 | 5.1 | V | 3.0 | 39.5 | 1.0 | -33.4 | -13.0 | -20.4 | |
| 3.3464 | -17.3 | V | 3.0 | 40.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1.6730 | -1.8 | H | 3.0 | 39.1 | 1.0 | -39.9 | -13.0 | -26.9 | |
| 2.5098 | 7.5 | H | 3.0 | 39.5 | 1.0 | -31.1 | -13.0 | -18.1 | |
| 3.3464 | -17.5 | H | 3.0 | 40.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| High Ch, 848.8MHz | | | | | | | | | |
| 1.6976 | -6.2 | V | 3.0 | 39.1 | 1.0 | -44.3 | -13.0 | -31.3 | |
| 2.5466 | -5.3 | V | 3.0 | 39.6 | 1.0 | -43.8 | -13.0 | -30.8 | |
| 3.3952 | -17.3 | V | 3.0 | 40.2 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1.6976 | -1.3 | H | 3.0 | 39.1 | 1.0 | -39.4 | -13.0 | -26.4 | |
| 2.5466 | 7.7 | H | 3.0 | 39.6 | 1.0 | -30.9 | -13.0 | -17.9 | |
| 3.3952 | -17.4 | H | 3.0 | 40.2 | 1.0 | -56.6 | -13.0 | -43.6 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |
| GSM | GSM850 EGPRS | Company: Samsung | | Project #: 15K22210 | | | | | |
| | | Date: 11-13-15 | | Test Engineer: Steven.Kim | | | | | |
| | | Configuration: EUT / AC Adapter / Earphone, Z Position | | Mode: EGPRS 850 MHz | | | | | |
| | | Chamber | Pre-amplifier | Filter | Limit | | | | |
| | | Chamber 1 | AFS42 | Filter 1 | Part 22 | | | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.2MHz | | | | | | | | | |
| 1.6484 | -13.5 | V | 3.0 | 39.1 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 2.4726 | -7.9 | V | 3.0 | 39.5 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 3.2968 | -16.8 | V | 3.0 | 40.1 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 1.6484 | -17.2 | H | 3.0 | 39.1 | 1.0 | -55.3 | -13.0 | -42.3 | |
| 2.4726 | -1.1 | H | 3.0 | 39.5 | 1.0 | -39.6 | -13.0 | -26.6 | |
| 3.2968 | -17.6 | H | 3.0 | 40.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| Mid Ch, 836.6MHz | | | | | | | | | |
| 1.6730 | -11.8 | V | 3.0 | 39.1 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 2.5098 | -5.1 | V | 3.0 | 39.5 | 1.0 | -43.6 | -13.0 | -30.6 | |
| 3.3464 | -17.4 | V | 3.0 | 40.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1.6730 | -11.1 | H | 3.0 | 39.1 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 2.5098 | -2.3 | H | 3.0 | 39.5 | 1.0 | -40.8 | -13.0 | -27.8 | |
| 3.3464 | -17.5 | H | 3.0 | 40.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| High Ch, 848.8MHz | | | | | | | | | |
| 1.6976 | -16.1 | V | 3.0 | 39.1 | 1.0 | -54.3 | -13.0 | -41.3 | |
| 2.5466 | -15.0 | V | 3.0 | 39.6 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 3.3952 | -17.4 | V | 3.0 | 40.2 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1.6976 | -10.9 | H | 3.0 | 39.1 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 2.5466 | -2.3 | H | 3.0 | 39.6 | 1.0 | -40.8 | -13.0 | -27.8 | |
| 3.3952 | -17.4 | H | 3.0 | 40.2 | 1.0 | -56.6 | -13.0 | -43.6 | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

GSM 1900

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| GSM GSM1900 GPRS | Company: Samsung Project #: 15K22210 Date: 11-22-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, XPosition Mode: GPRS 1900 | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 24</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 1850.2MHz</td></tr> <tr><td>3.7004</td><td>-5.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr> <tr><td>5.5506</td><td>-7.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr> <tr><td>7.4008</td><td>-11.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>3.7000</td><td>-11.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>5.5506</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>7.4008</td><td>-11.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1880.0MHz</td></tr> <tr><td>3.7600</td><td>-5.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr> <tr><td>5.6400</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr> <tr><td>7.5200</td><td>-10.3</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> <tr><td>3.7600</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr> <tr><td>5.6400</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>7.5200</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr> <tr><td colspan="10">High Ch, 1909.8 MHz</td></tr> <tr><td>3.8196</td><td>-4.8</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.4</td><td>-13.0</td><td>-31.4</td><td></td></tr> <tr><td>5.7294</td><td>-10.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr> <tr><td>7.6392</td><td>-10.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td>3.8196</td><td>-5.8</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.4</td><td>-13.0</td><td>-32.4</td><td></td></tr> <tr><td>5.7294</td><td>-11.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>7.6392</td><td>-10.0</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1850.2MHz | | | | | | | | | | 3.7004 | -5.8 | V | 3.0 | 40.5 | 1.0 | -45.3 | -13.0 | -32.3 | | 5.5506 | -7.7 | V | 3.0 | 40.8 | 1.0 | -47.5 | -13.0 | -34.5 | | 7.4008 | -11.0 | V | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | 3.7000 | -11.8 | H | 3.0 | 40.5 | 1.0 | -51.3 | -13.0 | -38.3 | | 5.5506 | -11.5 | H | 3.0 | 40.8 | 1.0 | -51.3 | -13.0 | -38.3 | | 7.4008 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | Mid Ch, 1880.0MHz | | | | | | | | | | 3.7600 | -5.6 | V | 3.0 | 40.5 | 1.0 | -45.2 | -13.0 | -32.2 | | 5.6400 | -8.9 | V | 3.0 | 40.8 | 1.0 | -48.7 | -13.0 | -35.7 | | 7.5200 | -10.3 | V | 3.0 | 40.7 | 1.0 | -50.1 | -13.0 | -37.1 | | 3.7600 | -13.4 | H | 3.0 | 40.5 | 1.0 | -52.9 | -13.0 | -39.9 | | 5.6400 | -11.1 | H | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | | 7.5200 | -10.3 | H | 3.0 | 40.7 | 1.0 | -50.0 | -13.0 | -37.0 | | High Ch, 1909.8 MHz | | | | | | | | | | 3.8196 | -4.8 | V | 3.0 | 40.6 | 1.0 | -44.4 | -13.0 | -31.4 | | 5.7294 | -10.1 | V | 3.0 | 40.8 | 1.0 | -49.9 | -13.0 | -36.9 | | 7.6392 | -10.1 | V | 3.0 | 40.7 | 1.0 | -49.7 | -13.0 | -36.7 | | 3.8196 | -5.8 | H | 3.0 | 40.6 | 1.0 | -45.4 | -13.0 | -32.4 | | 5.7294 | -11.3 | H | 3.0 | 40.8 | 1.0 | -51.1 | -13.0 | -38.1 | | 7.6392 | -10.0 | H | 3.0 | 40.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Ch, 1850.2MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7004 | -5.8 | V | 3.0 | 40.5 | 1.0 | -45.3 | -13.0 | -32.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5506 | -7.7 | V | 3.0 | 40.8 | 1.0 | -47.5 | -13.0 | -34.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4008 | -11.0 | V | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7000 | -11.8 | H | 3.0 | 40.5 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5506 | -11.5 | H | 3.0 | 40.8 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4008 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.8 | -13.0 | -37.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 1880.0MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -5.6 | V | 3.0 | 40.5 | 1.0 | -45.2 | -13.0 | -32.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -8.9 | V | 3.0 | 40.8 | 1.0 | -48.7 | -13.0 | -35.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -10.3 | V | 3.0 | 40.7 | 1.0 | -50.1 | -13.0 | -37.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -13.4 | H | 3.0 | 40.5 | 1.0 | -52.9 | -13.0 | -39.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -11.1 | H | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -10.3 | H | 3.0 | 40.7 | 1.0 | -50.0 | -13.0 | -37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 1909.8 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8196 | -4.8 | V | 3.0 | 40.6 | 1.0 | -44.4 | -13.0 | -31.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7294 | -10.1 | V | 3.0 | 40.8 | 1.0 | -49.9 | -13.0 | -36.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6392 | -10.1 | V | 3.0 | 40.7 | 1.0 | -49.7 | -13.0 | -36.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8196 | -5.8 | H | 3.0 | 40.6 | 1.0 | -45.4 | -13.0 | -32.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7294 | -11.3 | H | 3.0 | 40.8 | 1.0 | -51.1 | -13.0 | -38.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6392 | -10.0 | H | 3.0 | 40.7 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GSM GSM1900 EGPRS | Company: Samsung Project #: 15K22210 Date: 11-22-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone, XPosition Mode: EGPRS 1900 MHz | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 24</div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 1850.2MHz</td></tr> <tr><td>3.7004</td><td>-11.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr> <tr><td>5.5506</td><td>-11.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>7.4008</td><td>-11.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>3.7000</td><td>-16.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>5.5500</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr> <tr><td>7.4000</td><td>-11.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1880.0MHz</td></tr> <tr><td>3.7600</td><td>-11.4</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.0</td><td>-13.0</td><td>-38.0</td><td></td></tr> <tr><td>5.6400</td><td>-12.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr> <tr><td>7.5200</td><td>-10.5</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td>3.7600</td><td>-16.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-55.7</td><td>-13.0</td><td>-42.7</td><td></td></tr> <tr><td>5.6400</td><td>-12.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td>7.5200</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> <tr><td colspan="10">High Ch, 1909.8 MHz</td></tr> <tr><td>3.8196</td><td>-11.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>5.7294</td><td>-12.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>7.6392</td><td>-10.2</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr> <tr><td>3.8196</td><td>-10.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr> <tr><td>5.7294</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr> <tr><td>7.6392</td><td>-10.2</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr> </tbody> </table> <p>Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</p> | | | | | | | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1850.2MHz | | | | | | | | | | 3.7004 | -11.0 | V | 3.0 | 40.5 | 1.0 | -50.4 | -13.0 | -37.4 | | 5.5506 | -11.7 | V | 3.0 | 40.8 | 1.0 | -51.5 | -13.0 | -38.5 | | 7.4008 | -11.3 | V | 3.0 | 40.8 | 1.0 | -51.1 | -13.0 | -38.1 | | 3.7000 | -16.4 | H | 3.0 | 40.5 | 1.0 | -55.9 | -13.0 | -42.9 | | 5.5500 | -12.9 | H | 3.0 | 40.8 | 1.0 | -52.7 | -13.0 | -39.7 | | 7.4000 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.7 | -13.0 | -37.7 | | Mid Ch, 1880.0MHz | | | | | | | | | | 3.7600 | -11.4 | V | 3.0 | 40.5 | 1.0 | -51.0 | -13.0 | -38.0 | | 5.6400 | -12.0 | V | 3.0 | 40.8 | 1.0 | -51.8 | -13.0 | -38.8 | | 7.5200 | -10.5 | V | 3.0 | 40.7 | 1.0 | -50.3 | -13.0 | -37.3 | | 3.7600 | -16.2 | H | 3.0 | 40.5 | 1.0 | -55.7 | -13.0 | -42.7 | | 5.6400 | -12.8 | H | 3.0 | 40.8 | 1.0 | -52.6 | -13.0 | -39.6 | | 7.5200 | -10.3 | H | 3.0 | 40.7 | 1.0 | -50.1 | -13.0 | -37.1 | | High Ch, 1909.8 MHz | | | | | | | | | | 3.8196 | -11.7 | V | 3.0 | 40.6 | 1.0 | -51.3 | -13.0 | -38.3 | | 5.7294 | -12.2 | V | 3.0 | 40.8 | 1.0 | -52.0 | -13.0 | -39.0 | | 7.6392 | -10.2 | V | 3.0 | 40.7 | 1.0 | -49.8 | -13.0 | -36.8 | | 3.8196 | -10.4 | H | 3.0 | 40.6 | 1.0 | -50.0 | -13.0 | -37.0 | | 5.7294 | -13.3 | H | 3.0 | 40.8 | 1.0 | -53.1 | -13.0 | -40.1 | | 7.6392 | -10.2 | H | 3.0 | 40.7 | 1.0 | -49.8 | -13.0 | -36.8 | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Ch, 1850.2MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7004 | -11.0 | V | 3.0 | 40.5 | 1.0 | -50.4 | -13.0 | -37.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5506 | -11.7 | V | 3.0 | 40.8 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4008 | -11.3 | V | 3.0 | 40.8 | 1.0 | -51.1 | -13.0 | -38.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7000 | -16.4 | H | 3.0 | 40.5 | 1.0 | -55.9 | -13.0 | -42.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5500 | -12.9 | H | 3.0 | 40.8 | 1.0 | -52.7 | -13.0 | -39.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4000 | -11.0 | H | 3.0 | 40.8 | 1.0 | -50.7 | -13.0 | -37.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 1880.0MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -11.4 | V | 3.0 | 40.5 | 1.0 | -51.0 | -13.0 | -38.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -12.0 | V | 3.0 | 40.8 | 1.0 | -51.8 | -13.0 | -38.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -10.5 | V | 3.0 | 40.7 | 1.0 | -50.3 | -13.0 | -37.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.7600 | -16.2 | H | 3.0 | 40.5 | 1.0 | -55.7 | -13.0 | -42.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.6400 | -12.8 | H | 3.0 | 40.8 | 1.0 | -52.6 | -13.0 | -39.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.5200 | -10.3 | H | 3.0 | 40.7 | 1.0 | -50.1 | -13.0 | -37.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 1909.8 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8196 | -11.7 | V | 3.0 | 40.6 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7294 | -12.2 | V | 3.0 | 40.8 | 1.0 | -52.0 | -13.0 | -39.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6392 | -10.2 | V | 3.0 | 40.7 | 1.0 | -49.8 | -13.0 | -36.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8196 | -10.4 | H | 3.0 | 40.6 | 1.0 | -50.0 | -13.0 | -37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.7294 | -13.3 | H | 3.0 | 40.8 | 1.0 | -53.1 | -13.0 | -40.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.6392 | -10.2 | H | 3.0 | 40.7 | 1.0 | -49.8 | -13.0 | -36.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

WCDMA Band 5

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--------------------------|--|---|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| WCDMA Band 5 REL99 | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: Tx, REL99,850MHz | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div> | | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | Low Ch, 826.40MHz | | | | | | | | | | |
| | | 1.6520 | -18.8 | V | 3.0 | 39.1 | 1.0 | -56.9 | -13.0 | -43.9 | | |
| | | 2.4790 | -9.1 | V | 3.0 | 39.5 | 1.0 | -47.6 | -13.0 | -34.6 | | |
| | | 3.3056 | -15.6 | V | 3.0 | 40.1 | 1.0 | -54.7 | -13.0 | -41.7 | | |
| | | 1.6520 | -19.9 | H | 3.0 | 39.1 | 1.0 | -58.0 | -13.0 | -45.0 | | |
| | | 2.4790 | -8.3 | H | 3.0 | 39.5 | 1.0 | -46.8 | -13.0 | -33.8 | | |
| | | 3.3056 | -15.8 | H | 3.0 | 40.1 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| | Mid Ch, 836.6MHz | | | | | | | | | | | |
| | 1.6732 | -19.0 | V | 3.0 | 39.1 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| | 2.5098 | -9.2 | V | 3.0 | 39.5 | 1.0 | -47.8 | -13.0 | -34.8 | | | |
| | 3.3464 | -15.7 | V | 3.0 | 40.1 | 1.0 | -54.8 | -13.0 | -41.8 | | | |
| | 1.6732 | -20.2 | H | 3.0 | 39.1 | 1.0 | -58.3 | -13.0 | -45.3 | | | |
| | 2.5098 | -9.5 | H | 3.0 | 39.5 | 1.0 | -48.0 | -13.0 | -35.0 | | | |
| | 3.3464 | -16.0 | H | 3.0 | 40.1 | 1.0 | -55.2 | -13.0 | -42.2 | | | |
| | High Ch, 846.6MHz | | | | | | | | | | | |
| | 1.6932 | -17.7 | V | 3.0 | 39.1 | 1.0 | -55.9 | -13.0 | -42.9 | | | |
| | 2.5390 | -11.8 | V | 3.0 | 39.6 | 1.0 | -50.4 | -13.0 | -37.4 | | | |
| | 3.3860 | -15.6 | V | 3.0 | 40.2 | 1.0 | -54.8 | -13.0 | -41.8 | | | |
| | 1.6932 | -20.8 | H | 3.0 | 39.1 | 1.0 | -58.9 | -13.0 | -45.9 | | | |
| | 2.5390 | -10.6 | H | 3.0 | 39.6 | 1.0 | -49.1 | -13.0 | -36.1 | | | |
| | 3.3860 | -15.9 | H | 3.0 | 40.2 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| WCDMA Band 5 HSDPA | Company: Samsung Project #: 15K22210 Date: 11-13-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: Tx, HSDPA,850MHz | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit Part 22</div> </div> | | | | | | | | | | | |
| | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | | Low Ch, 826.40MHz | | | | | | | | | | |
| | | 1.6520 | -18.8 | V | 3.0 | 39.1 | 1.0 | -56.9 | -13.0 | -43.9 | | |
| | | 2.4790 | -9.2 | V | 3.0 | 39.5 | 1.0 | -47.7 | -13.0 | -34.7 | | |
| | | 3.3056 | -15.6 | V | 3.0 | 40.1 | 1.0 | -54.7 | -13.0 | -41.7 | | |
| | | 1.6520 | -19.9 | H | 3.0 | 39.1 | 1.0 | -58.0 | -13.0 | -45.0 | | |
| | | 2.4790 | -8.3 | H | 3.0 | 39.5 | 1.0 | -46.8 | -13.0 | -33.8 | | |
| | | 3.3056 | -15.8 | H | 3.0 | 40.1 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| | Mid Ch, 836.6MHz | | | | | | | | | | | |
| | 1.6732 | -18.8 | V | 3.0 | 39.1 | 1.0 | -56.9 | -13.0 | -43.9 | | | |
| | 2.5098 | -9.3 | V | 3.0 | 39.5 | 1.0 | -47.8 | -13.0 | -34.8 | | | |
| | 3.3464 | -15.6 | V | 3.0 | 40.1 | 1.0 | -54.7 | -13.0 | -41.7 | | | |
| | 1.6732 | -20.1 | H | 3.0 | 39.1 | 1.0 | -58.2 | -13.0 | -45.2 | | | |
| | 2.5098 | -10.1 | H | 3.0 | 39.5 | 1.0 | -48.6 | -13.0 | -35.6 | | | |
| | 3.3464 | -16.0 | H | 3.0 | 40.1 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| | High Ch, 846.6MHz | | | | | | | | | | | |
| | 1.6932 | -17.7 | V | 3.0 | 39.1 | 1.0 | -55.8 | -13.0 | -42.8 | | | |
| | 2.5390 | -11.9 | V | 3.0 | 39.6 | 1.0 | -50.5 | -13.0 | -37.5 | | | |
| | 3.3860 | -15.6 | V | 3.0 | 40.2 | 1.0 | -54.8 | -13.0 | -41.8 | | | |
| | 1.6932 | -20.7 | H | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 | | | |
| | 2.5390 | -10.3 | H | 3.0 | 39.6 | 1.0 | -48.9 | -13.0 | -35.9 | | | |
| | 3.3860 | -15.7 | H | 3.0 | 40.2 | 1.0 | -54.8 | -13.0 | -41.8 | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

WCDMA Band 4

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|-------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--|
| WCDMA Band 4 REL99 | Company: Samsung Project #: 15K22210 Date: 11-23-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, REL99,1700MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Chamber 2 AFS42 Filter 1 Part 24 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 1712.4MHz</td></tr> <tr><td>3.4248</td><td>-14.2</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr> <tr><td>5.1372</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>6.8496</td><td>-9.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr> <tr><td>3.4248</td><td>-13.2</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr> <tr><td>5.1372</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr> <tr><td>6.8496</td><td>-9.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1732.6MHz</td></tr> <tr><td>3.4652</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr> <tr><td>5.1978</td><td>-10.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> <tr><td>6.9304</td><td>-9.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td>3.4652</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr> <tr><td>5.1978</td><td>-10.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr> <tr><td>6.9304</td><td>-9.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr><td colspan="10">High Ch, 1752.6MHz</td></tr> <tr><td>3.5052</td><td>-14.3</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>5.2578</td><td>-11.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>7.0104</td><td>-9.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr> <tr><td>3.5052</td><td>-14.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>5.2578</td><td>-11.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>7.0104</td><td>-10.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1712.4MHz | | | | | | | | | | 3.4248 | -14.2 | V | 3.0 | 40.2 | 1.0 | -53.4 | -13.0 | -40.4 | | 5.1372 | -6.5 | V | 3.0 | 40.9 | 1.0 | -46.4 | -13.0 | -33.4 | | 6.8496 | -9.3 | V | 3.0 | 41.0 | 1.0 | -49.3 | -13.0 | -36.3 | | 3.4248 | -13.2 | H | 3.0 | 40.2 | 1.0 | -52.4 | -13.0 | -39.4 | | 5.1372 | -9.6 | H | 3.0 | 40.9 | 1.0 | -49.5 | -13.0 | -36.5 | | 6.8496 | -9.5 | H | 3.0 | 41.0 | 1.0 | -49.5 | -13.0 | -36.5 | | Mid Ch, 1732.6MHz | | | | | | | | | | 3.4652 | -14.0 | V | 3.0 | 40.3 | 1.0 | -53.3 | -13.0 | -40.3 | | 5.1978 | -10.2 | V | 3.0 | 40.9 | 1.0 | -50.1 | -13.0 | -37.1 | | 6.9304 | -9.7 | V | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | 3.4652 | -14.1 | H | 3.0 | 40.3 | 1.0 | -53.3 | -13.0 | -40.3 | | 5.1978 | -10.8 | H | 3.0 | 40.9 | 1.0 | -50.7 | -13.0 | -37.7 | | 6.9304 | -9.6 | H | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | | High Ch, 1752.6MHz | | | | | | | | | | 3.5052 | -14.3 | V | 3.0 | 40.3 | 1.0 | -53.6 | -13.0 | -40.6 | | 5.2578 | -11.2 | V | 3.0 | 40.9 | 1.0 | -51.1 | -13.0 | -38.1 | | 7.0104 | -9.9 | V | 3.0 | 41.0 | 1.0 | -50.0 | -13.0 | -37.0 | | 3.5052 | -14.8 | H | 3.0 | 40.3 | 1.0 | -54.1 | -13.0 | -41.1 | | 5.2578 | -11.4 | H | 3.0 | 40.9 | 1.0 | -51.3 | -13.0 | -38.3 | | 7.0104 | -10.1 | H | 3.0 | 41.0 | 1.0 | -50.1 | -13.0 | -37.1 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 1712.4MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -14.2 | V | 3.0 | 40.2 | 1.0 | -53.4 | -13.0 | -40.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -6.5 | V | 3.0 | 40.9 | 1.0 | -46.4 | -13.0 | -33.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.8496 | -9.3 | V | 3.0 | 41.0 | 1.0 | -49.3 | -13.0 | -36.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -13.2 | H | 3.0 | 40.2 | 1.0 | -52.4 | -13.0 | -39.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -9.6 | H | 3.0 | 40.9 | 1.0 | -49.5 | -13.0 | -36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.8496 | -9.5 | H | 3.0 | 41.0 | 1.0 | -49.5 | -13.0 | -36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 1732.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4652 | -14.0 | V | 3.0 | 40.3 | 1.0 | -53.3 | -13.0 | -40.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.1978 | -10.2 | V | 3.0 | 40.9 | 1.0 | -50.1 | -13.0 | -37.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.9304 | -9.7 | V | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4652 | -14.1 | H | 3.0 | 40.3 | 1.0 | -53.3 | -13.0 | -40.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.1978 | -10.8 | H | 3.0 | 40.9 | 1.0 | -50.7 | -13.0 | -37.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.9304 | -9.6 | H | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 1752.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5052 | -14.3 | V | 3.0 | 40.3 | 1.0 | -53.6 | -13.0 | -40.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -11.2 | V | 3.0 | 40.9 | 1.0 | -51.1 | -13.0 | -38.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | -9.9 | V | 3.0 | 41.0 | 1.0 | -50.0 | -13.0 | -37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5052 | -14.8 | H | 3.0 | 40.3 | 1.0 | -54.1 | -13.0 | -41.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -11.4 | H | 3.0 | 40.9 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | -10.1 | H | 3.0 | 41.0 | 1.0 | -50.1 | -13.0 | -37.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WCDMA Band 4 HSDPA | Company: Samsung Project #: 15K22210 Date: 11-23-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, HSDPA,1700MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> Chamber 2 AFS42 Filter 1 Part 24 </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 1712.4MHz</td></tr> <tr><td>3.4248</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>5.1372</td><td>-4.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr> <tr><td>6.8496</td><td>-9.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr><td>3.4248</td><td>-13.1</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>5.1372</td><td>-8.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr> <tr><td>6.8496</td><td>-9.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.6</td><td>-13.0</td><td>-36.6</td><td></td></tr> <tr><td colspan="10">Mid Ch, 1732.6MHz</td></tr> <tr><td>3.4652</td><td>-14.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>5.1978</td><td>-10.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr> <tr><td>6.9304</td><td>-9.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td>3.4652</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr> <tr><td>5.1978</td><td>-10.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr> <tr><td>6.9304</td><td>-9.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td colspan="10">High Ch, 1752.6MHz</td></tr> <tr><td>3.5052</td><td>-14.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>5.2578</td><td>-11.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>7.0104</td><td>-10.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> <tr><td>3.5052</td><td>-14.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</td><td></td></tr> <tr><td>5.2578</td><td>-11.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>7.0104</td><td>-10.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Ch, 1712.4MHz | | | | | | | | | | 3.4248 | -13.1 | V | 3.0 | 40.2 | 1.0 | -52.3 | -13.0 | -39.3 | | 5.1372 | -4.9 | V | 3.0 | 40.9 | 1.0 | -44.8 | -13.0 | -31.8 | | 6.8496 | -9.6 | V | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | | 3.4248 | -13.1 | H | 3.0 | 40.2 | 1.0 | -52.3 | -13.0 | -39.3 | | 5.1372 | -8.6 | H | 3.0 | 40.9 | 1.0 | -48.4 | -13.0 | -35.4 | | 6.8496 | -9.6 | H | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | | Mid Ch, 1732.6MHz | | | | | | | | | | 3.4652 | -14.5 | V | 3.0 | 40.3 | 1.0 | -53.7 | -13.0 | -40.7 | | 5.1978 | -10.0 | V | 3.0 | 40.9 | 1.0 | -49.9 | -13.0 | -36.9 | | 6.9304 | -9.7 | V | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | 3.4652 | -14.0 | H | 3.0 | 40.3 | 1.0 | -53.2 | -13.0 | -40.2 | | 5.1978 | -10.5 | H | 3.0 | 40.9 | 1.0 | -50.4 | -13.0 | -37.4 | | 6.9304 | -9.7 | H | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | High Ch, 1752.6MHz | | | | | | | | | | 3.5052 | -14.2 | V | 3.0 | 40.3 | 1.0 | -53.5 | -13.0 | -40.5 | | 5.2578 | -11.3 | V | 3.0 | 40.9 | 1.0 | -51.1 | -13.0 | -38.1 | | 7.0104 | -10.1 | V | 3.0 | 41.0 | 1.0 | -50.1 | -13.0 | -37.1 | | 3.5052 | -14.9 | H | 3.0 | 40.3 | 1.0 | -54.2 | -13.0 | -41.2 | | 5.2578 | -11.6 | H | 3.0 | 40.9 | 1.0 | -51.5 | -13.0 | -38.5 | | 7.0104 | -10.0 | H | 3.0 | 41.0 | 1.0 | -50.0 | -13.0 | -37.0 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Ch, 1712.4MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -13.1 | V | 3.0 | 40.2 | 1.0 | -52.3 | -13.0 | -39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -4.9 | V | 3.0 | 40.9 | 1.0 | -44.8 | -13.0 | -31.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6.8496 | -9.6 | V | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.4248 | -13.1 | H | 3.0 | 40.2 | 1.0 | -52.3 | -13.0 | -39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5.1372 | -8.6 | H | 3.0 | 40.9 | 1.0 | -48.4 | -13.0 | -35.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.8496 | -9.6 | H | 3.0 | 41.0 | 1.0 | -49.6 | -13.0 | -36.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 1732.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4652 | -14.5 | V | 3.0 | 40.3 | 1.0 | -53.7 | -13.0 | -40.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.1978 | -10.0 | V | 3.0 | 40.9 | 1.0 | -49.9 | -13.0 | -36.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.9304 | -9.7 | V | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.4652 | -14.0 | H | 3.0 | 40.3 | 1.0 | -53.2 | -13.0 | -40.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.1978 | -10.5 | H | 3.0 | 40.9 | 1.0 | -50.4 | -13.0 | -37.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.9304 | -9.7 | H | 3.0 | 41.0 | 1.0 | -49.7 | -13.0 | -36.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Ch, 1752.6MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5052 | -14.2 | V | 3.0 | 40.3 | 1.0 | -53.5 | -13.0 | -40.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -11.3 | V | 3.0 | 40.9 | 1.0 | -51.1 | -13.0 | -38.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | -10.1 | V | 3.0 | 41.0 | 1.0 | -50.1 | -13.0 | -37.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.5052 | -14.9 | H | 3.0 | 40.3 | 1.0 | -54.2 | -13.0 | -41.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2578 | -11.6 | H | 3.0 | 40.9 | 1.0 | -51.5 | -13.0 | -38.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.0104 | -10.0 | H | 3.0 | 41.0 | 1.0 | -50.0 | -13.0 | -37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

WCDMA Band 2

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|--|--|----------------------|--------------|------------------------|-------------|--------------------|-------------|------------------|-------|--|
| WCDMA Band 2 REL99 | Company: Samsung Project #: 15K22210 Date: 11-22-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, REL99,1900MHz | | Chamber Chamber 2 | | Pre-amplifier AFS42 | | Filter Filter 1 | | Limit Part 24 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Ch, 1852.4MHz | | | | | | | | | | |
| | 3.7048 | -9.9 | V | 3.0 | 40.5 | 1.0 | -49.4 | -13.0 | -36.4 | | |
| | 5.5572 | -11.9 | V | 3.0 | 40.8 | 1.0 | -51.8 | -13.0 | -38.8 | | |
| | 7.4096 | -9.9 | V | 3.0 | 40.8 | 1.0 | -49.6 | -13.0 | -36.6 | | |
| | 3.7048 | -11.3 | H | 3.0 | 40.5 | 1.0 | -50.8 | -13.0 | -37.8 | | |
| | 5.5572 | -11.9 | H | 3.0 | 40.8 | 1.0 | -51.7 | -13.0 | -38.7 | | |
| | 7.4096 | -9.8 | H | 3.0 | 40.8 | 1.0 | -49.6 | -13.0 | -36.6 | | |
| | Mid Ch, 1880MHz | | | | | | | | | | |
| | 3.7600 | -6.4 | V | 3.0 | 40.5 | 1.0 | -45.9 | -13.0 | -32.9 | | |
| | 5.6400 | -11.1 | V | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | | |
| | 7.5200 | -8.9 | V | 3.0 | 40.7 | 1.0 | -48.6 | -13.0 | -35.6 | | |
| | 3.7600 | -8.5 | H | 3.0 | 40.5 | 1.0 | -48.0 | -13.0 | -35.0 | | |
| | 5.6400 | -11.7 | H | 3.0 | 40.8 | 1.0 | -51.5 | -13.0 | -38.5 | | |
| | 7.5200 | -8.8 | H | 3.0 | 40.7 | 1.0 | -48.5 | -13.0 | -35.5 | | |
| | High Ch, 1907.6MHz | | | | | | | | | | |
| | 3.8152 | -5.7 | V | 3.0 | 40.6 | 1.0 | -45.2 | -13.0 | -32.2 | | |
| | 5.7228 | -10.1 | V | 3.0 | 40.8 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| | 7.6304 | -9.0 | V | 3.0 | 40.7 | 1.0 | -48.7 | -13.0 | -35.7 | | |
| 3.8152 | -7.6 | H | 3.0 | 40.6 | 1.0 | -47.2 | -13.0 | -34.2 | | | |
| 5.7228 | -9.5 | H | 3.0 | 40.8 | 1.0 | -49.3 | -13.0 | -36.3 | | | |
| 7.6304 | -8.8 | H | 3.0 | 40.7 | 1.0 | -48.5 | -13.0 | -35.5 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| WCDMA Band 2 HSDPA | Company: Samsung Project #: 15K22210 Date: 11-22-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Earphone / X Position Mode: Tx, HSDPA,1900MHz | | Chamber Chamber 2 | | Pre-amplifier AFS42 | | Filter Filter 1 | | Limit Part 24 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Ch, 1852.4MHz | | | | | | | | | | |
| | 3.7048 | -9.8 | V | 3.0 | 40.5 | 1.0 | -49.3 | -13.0 | -36.3 | | |
| | 5.5572 | -11.3 | V | 3.0 | 40.8 | 1.0 | -51.1 | -13.0 | -38.1 | | |
| | 7.4096 | -10.0 | V | 3.0 | 40.8 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| | 3.7048 | -12.7 | H | 3.0 | 40.5 | 1.0 | -52.2 | -13.0 | -39.2 | | |
| | 5.5572 | -12.1 | H | 3.0 | 40.8 | 1.0 | -51.9 | -13.0 | -38.9 | | |
| | 7.4096 | -10.0 | H | 3.0 | 40.8 | 1.0 | -49.8 | -13.0 | -36.8 | | |
| | Mid Ch, 1880MHz | | | | | | | | | | |
| | 3.7600 | -6.1 | V | 3.0 | 40.5 | 1.0 | -45.6 | -13.0 | -32.6 | | |
| | 5.6400 | -11.8 | V | 3.0 | 40.8 | 1.0 | -51.6 | -13.0 | -38.6 | | |
| | 7.5200 | -9.1 | V | 3.0 | 40.7 | 1.0 | -48.8 | -13.0 | -35.8 | | |
| | 3.7600 | -8.5 | H | 3.0 | 40.5 | 1.0 | -48.1 | -13.0 | -35.1 | | |
| | 5.6400 | -11.8 | H | 3.0 | 40.8 | 1.0 | -51.6 | -13.0 | -38.6 | | |
| | 7.5200 | -9.0 | H | 3.0 | 40.7 | 1.0 | -48.7 | -13.0 | -35.7 | | |
| | High Ch, 1907.6MHz | | | | | | | | | | |
| | 3.8152 | -5.6 | V | 3.0 | 40.6 | 1.0 | -45.2 | -13.0 | -32.2 | | |
| | 5.7228 | -10.7 | V | 3.0 | 40.8 | 1.0 | -50.5 | -13.0 | -37.5 | | |
| | 7.6304 | -8.7 | V | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | |
| 3.8152 | -7.3 | H | 3.0 | 40.6 | 1.0 | -46.9 | -13.0 | -33.9 | | | |
| 5.7228 | -11.1 | H | 3.0 | 40.8 | 1.0 | -50.9 | -13.0 | -37.9 | | | |
| 7.6304 | -8.6 | H | 3.0 | 40.7 | 1.0 | -48.3 | -13.0 | -35.3 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

LTE Band 17

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|--|--|--|--------------|-------------|-------------|-------------|-------------|------------|-------|--|
| LTE Band 17 10MHz QPSK | Company: Samsung | | Project #: 15K22210 | | | | | | | | |
| | Date: 11-20-15 | | Test Engineer: Steven.Kim | | | | | | | | |
| | Configuration: EUT / AC Adapter / Earphone, Z Position | | Mode: TX, LTE BAND 17, 10MHz BW, QPSK | | | | | | | | |
| | Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (709MHz) | | | | | | | | | | |
| | 1.4180 | 15.7 | V | 3.0 | 39.0 | 1.0 | -22.3 | -13.0 | -9.3 | | |
| | 2.1270 | -12.1 | V | 3.0 | 39.3 | 1.0 | -50.4 | -13.0 | -37.4 | | |
| | 2.8360 | -13.6 | V | 3.0 | 39.7 | 1.0 | -52.3 | -13.0 | -39.3 | | |
| | 1.4180 | 9.1 | H | 3.0 | 39.0 | 1.0 | -28.9 | -13.0 | -15.9 | | |
| | 2.1270 | -15.0 | H | 3.0 | 39.3 | 1.0 | -53.3 | -13.0 | -40.3 | | |
| | 2.8360 | -16.5 | H | 3.0 | 39.7 | 1.0 | -55.2 | -13.0 | -42.2 | | |
| | Mid Channel (710MHz) | | | | | | | | | | |
| | 1.4200 | 15.3 | V | 3.0 | 39.0 | 1.0 | -22.7 | -13.0 | -9.7 | | |
| | 2.1300 | -11.8 | V | 3.0 | 39.3 | 1.0 | -50.1 | -13.0 | -37.1 | | |
| | 2.8400 | -15.7 | V | 3.0 | 39.7 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| | 1.4200 | 9.0 | H | 3.0 | 39.0 | 1.0 | -29.0 | -13.0 | -16.0 | | |
| | 2.1300 | -14.0 | H | 3.0 | 39.3 | 1.0 | -52.3 | -13.0 | -39.3 | | |
| | 2.8400 | -20.3 | H | 3.0 | 39.7 | 1.0 | -59.0 | -13.0 | -46.0 | | |
| High Channel (711MHz) | | | | | | | | | | | |
| 1.4220 | 14.7 | V | 3.0 | 39.0 | 1.0 | -23.4 | -13.0 | -10.4 | | | |
| 2.1330 | -10.1 | V | 3.0 | 39.3 | 1.0 | -48.4 | -13.0 | -35.4 | | | |
| 2.8440 | -15.4 | V | 3.0 | 39.7 | 1.0 | -54.1 | -13.0 | -41.1 | | | |
| 1.4220 | 8.3 | H | 3.0 | 39.0 | 1.0 | -29.7 | -13.0 | -16.7 | | | |
| 2.1330 | -16.5 | H | 3.0 | 39.3 | 1.0 | -54.9 | -13.0 | -41.9 | | | |
| 2.8440 | -19.7 | H | 3.0 | 39.7 | 1.0 | -58.4 | -13.0 | -45.4 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 17 10MHz 16QAM | Company: Samsung | | Project #: 15K22210 | | | | | | | | |
| | Date: 11-20-15 | | Test Engineer: Steven.Kim | | | | | | | | |
| | Configuration: EUT / AC Adapter / Earphone, Z Position | | Mode: TX, LTE BAND 17, 10MHz BW, 16QAM | | | | | | | | |
| | Chamber | | Pre-amplifier | | Filter | | Limit | | | | |
| | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (709MHz) | | | | | | | | | | |
| | 1.4180 | 14.7 | V | 3.0 | 39.0 | 1.0 | -23.3 | -13.0 | -10.3 | | |
| | 2.1270 | -13.1 | V | 3.0 | 39.3 | 1.0 | -51.4 | -13.0 | -38.4 | | |
| | 2.8360 | -14.6 | V | 3.0 | 39.7 | 1.0 | -53.3 | -13.0 | -40.3 | | |
| | 1.4180 | 8.1 | H | 3.0 | 39.0 | 1.0 | -29.9 | -13.0 | -16.9 | | |
| | 2.1270 | -16.0 | H | 3.0 | 39.3 | 1.0 | -54.3 | -13.0 | -41.3 | | |
| | 2.8360 | -17.5 | H | 3.0 | 39.7 | 1.0 | -56.2 | -13.0 | -43.2 | | |
| | Mid Channel (710MHz) | | | | | | | | | | |
| | 1.4200 | 14.3 | V | 3.0 | 39.0 | 1.0 | -23.7 | -13.0 | -10.7 | | |
| | 2.1300 | -12.8 | V | 3.0 | 39.3 | 1.0 | -51.1 | -13.0 | -38.1 | | |
| | 2.8400 | -16.7 | V | 3.0 | 39.7 | 1.0 | -55.4 | -13.0 | -42.4 | | |
| | 1.4200 | 8.0 | H | 3.0 | 39.0 | 1.0 | -30.0 | -13.0 | -17.0 | | |
| | 2.1300 | -15.0 | H | 3.0 | 39.3 | 1.0 | -53.3 | -13.0 | -40.3 | | |
| | 2.8400 | -21.3 | H | 3.0 | 39.7 | 1.0 | -60.0 | -13.0 | -47.0 | | |
| High Channel (711MHz) | | | | | | | | | | | |
| 1.4220 | 13.7 | V | 3.0 | 39.0 | 1.0 | -24.4 | -13.0 | -11.4 | | | |
| 2.1330 | -10.5 | V | 3.0 | 39.3 | 1.0 | -48.8 | -13.0 | -35.8 | | | |
| 2.8440 | -16.4 | V | 3.0 | 39.7 | 1.0 | -55.1 | -13.0 | -42.1 | | | |
| 1.4220 | 7.3 | H | 3.0 | 39.0 | 1.0 | -30.7 | -13.0 | -17.7 | | | |
| 2.1330 | -17.6 | H | 3.0 | 39.3 | 1.0 | -55.9 | -13.0 | -42.9 | | | |
| 2.8440 | -20.4 | H | 3.0 | 39.7 | 1.0 | -59.1 | -13.0 | -46.1 | | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|---------------------------------|--|---|-------|-------------------------|-----------------|-----------------|--------------|-------------|-------------|-------------|-------------|------------|-------|
| LTE Band 17 5MHz QPSK | | Company: Samsung | | | | | | | | | | | |
| | | Project #: 15K22210 | | | | | | | | | | | |
| | | Date: 11-20-15 | | | | | | | | | | | |
| | | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Earphone, Z Position | | | | | | | | | | | |
| | | Mode: TX LTE BAND 17, 5MHz BW, QPSK | | | | | | | | | | | |
| | | | | Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| | | | | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | |
| | | | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | | Low Channel (706.5MHz) | | | | | | | | | |
| | | | | 1.4130 | 15.7 | V | 3.0 | 39.0 | 1.0 | -22.3 | -13.0 | -9.3 | |
| | | | | 2.1195 | -9.1 | V | 3.0 | 39.3 | 1.0 | -47.4 | -13.0 | -34.4 | |
| | | | | 2.8260 | -15.5 | V | 3.0 | 39.7 | 1.0 | -54.2 | -13.0 | -41.2 | |
| | | | | 1.4130 | 8.8 | H | 3.0 | 39.0 | 1.0 | -29.2 | -13.0 | -16.2 | |
| | | | | 2.1195 | -14.5 | H | 3.0 | 39.3 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | | | | 2.8260 | -17.5 | H | 3.0 | 39.7 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | | | | Mid Channel (710MHz) | | | | | | | | | |
| | | | | 1.4200 | 15.5 | V | 3.0 | 39.0 | 1.0 | -22.5 | -13.0 | -9.5 | |
| | | | | 2.1300 | -11.4 | V | 3.0 | 39.3 | 1.0 | -49.8 | -13.0 | -36.8 | |
| | | | | 2.8400 | -15.9 | V | 3.0 | 39.7 | 1.0 | -54.6 | -13.0 | -41.6 | |
| | | | | 1.4200 | 8.9 | H | 3.0 | 39.0 | 1.0 | -29.1 | -13.0 | -16.1 | |
| | | | | 2.1300 | -14.0 | H | 3.0 | 39.3 | 1.0 | -52.3 | -13.0 | -39.3 | |
| | | | | 2.8400 | -18.9 | H | 3.0 | 39.7 | 1.0 | -57.6 | -13.0 | -44.6 | |
| | | | | High Channel (713.5MHz) | | | | | | | | | |
| | | | | 1.4270 | 15.7 | V | 3.0 | 39.0 | 1.0 | -22.4 | -13.0 | -9.4 | |
| | | 2.1405 | -4.5 | V | 3.0 | 39.3 | 1.0 | -42.9 | -13.0 | -29.9 | | | |
| | | 2.8540 | -17.4 | V | 3.0 | 39.7 | 1.0 | -56.1 | -13.0 | -43.1 | | | |
| | | 1.4270 | 7.7 | H | 3.0 | 39.0 | 1.0 | -30.3 | -13.0 | -17.3 | | | |
| | | 2.1405 | -14.3 | H | 3.0 | 39.3 | 1.0 | -52.6 | -13.0 | -39.6 | | | |
| | | 2.8540 | -22.9 | H | 3.0 | 39.7 | 1.0 | -61.6 | -13.0 | -48.6 | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |
| LTE Band 17 5MHz 16QAM | | Company: Samsung | | | | | | | | | | | |
| | | Project #: 15K22210 | | | | | | | | | | | |
| | | Date: 11-20-15 | | | | | | | | | | | |
| | | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | | Configuration: EUT / AC Adapter / Earphone, Z Position | | | | | | | | | | | |
| | | Mode: TX LTE BAND 17, 5MHz BW, 16QAM | | | | | | | | | | | |
| | | | | Chamber | | Pre-amplifier | | Filter | | Limit | | | |
| | | | | Chamber 2 | | AFS42 | | Filter 1 | | FCC Part 27 | | | |
| | | | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | | Low Channel (706.5MHz) | | | | | | | | | |
| | | | | 1.4130 | 14.7 | V | 3.0 | 39.0 | 1.0 | -23.3 | -13.0 | -10.3 | |
| | | | | 2.1195 | -10.1 | V | 3.0 | 39.3 | 1.0 | -48.4 | -13.0 | -35.4 | |
| | | | | 2.8260 | -16.5 | V | 3.0 | 39.7 | 1.0 | -55.2 | -13.0 | -42.2 | |
| | | | | 1.4130 | 7.8 | H | 3.0 | 39.0 | 1.0 | -30.2 | -13.0 | -17.2 | |
| | | | | 2.1195 | -15.5 | H | 3.0 | 39.3 | 1.0 | -53.8 | -13.0 | -40.8 | |
| | | | | 2.8260 | -18.6 | H | 3.0 | 39.7 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | | | Mid Channel (710MHz) | | | | | | | | | |
| | | | | 1.4200 | 14.5 | V | 3.0 | 39.0 | 1.0 | -23.5 | -13.0 | -10.5 | |
| | | | | 2.1300 | -12.4 | V | 3.0 | 39.3 | 1.0 | -50.8 | -13.0 | -37.8 | |
| | | | | 2.8400 | -16.9 | V | 3.0 | 39.7 | 1.0 | -55.6 | -13.0 | -42.6 | |
| | | | | 1.4200 | 7.9 | H | 3.0 | 39.0 | 1.0 | -30.1 | -13.0 | -17.1 | |
| | | | | 2.1300 | -14.9 | H | 3.0 | 39.3 | 1.0 | -53.3 | -13.0 | -40.3 | |
| | | | | 2.8400 | -19.5 | H | 3.0 | 39.7 | 1.0 | -58.3 | -13.0 | -45.3 | |
| | | | | High Channel (713.5MHz) | | | | | | | | | |
| | | | | 1.4270 | 14.7 | V | 3.0 | 39.0 | 1.0 | -23.4 | -13.0 | -10.4 | |
| | | 2.1405 | -5.6 | V | 3.0 | 39.3 | 1.0 | -43.9 | -13.0 | -30.9 | | | |
| | | 2.8540 | -18.4 | V | 3.0 | 39.7 | 1.0 | -57.1 | -13.0 | -44.1 | | | |
| | | 1.4270 | 7.2 | H | 3.0 | 39.0 | 1.0 | -30.8 | -13.0 | -17.8 | | | |
| | | 2.1405 | -15.3 | H | 3.0 | 39.3 | 1.0 | -53.6 | -13.0 | -40.6 | | | |
| | | 2.8540 | -23.4 | H | 3.0 | 39.7 | 1.0 | -62.1 | -13.0 | -49.1 | | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

LTE Band 5

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|--|--|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|----------------------|--|--|--|--|--|--|--|--|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-----------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-----|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|
| LTE Band 5 10MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-20-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX LTE BAND 5, 10MHz BW,QPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 22</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Channel (829MHz)</td></tr> <tr><td>1.6580</td><td>9.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-28.2</td><td>-13.0</td><td>-15.2</td><td></td></tr> <tr><td>2.4870</td><td>-18.5</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-57.0</td><td>-13.0</td><td>-44.0</td><td></td></tr> <tr><td>3.3160</td><td>-21.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td>1.6580</td><td>-0.8</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-38.9</td><td>-13.0</td><td>-25.9</td><td></td></tr> <tr><td>2.4870</td><td>-12.3</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>3.3160</td><td>-22.4</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.5</td><td>-13.0</td><td>-48.5</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>10.2</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-27.9</td><td>-13.0</td><td>-14.9</td><td></td></tr> <tr><td>2.5090</td><td>-19.2</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr> <tr><td>3.3460</td><td>-21.5</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.7</td><td>-13.0</td><td>-47.7</td><td></td></tr> <tr><td>1.6730</td><td>2.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-35.5</td><td>-13.0</td><td>-22.5</td><td></td></tr> <tr><td>2.5090</td><td>-16.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr> <tr><td>3.3460</td><td>-24.3</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-63.4</td><td>-13.0</td><td>-50.4</td><td></td></tr> <tr><td colspan="10">High Channel (844MHz)</td></tr> <tr><td>1.6880</td><td>10.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-27.5</td><td>-13.0</td><td>-14.5</td><td></td></tr> <tr><td>2.5320</td><td>-15.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>3.3760</td><td>-23.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-62.4</td><td>-13.0</td><td>-49.4</td><td></td></tr> <tr><td>1.6880</td><td>1.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-36.6</td><td>-13.0</td><td>-23.6</td><td></td></tr> <tr><td>2.5320</td><td>-20.5</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.1</td><td>-13.0</td><td>-46.1</td><td></td></tr> <tr><td>3.3760</td><td>-24.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-64.0</td><td>-13.0</td><td>-51.0</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (829MHz) | | | | | | | | | | 1.6580 | 9.9 | V | 3.0 | 39.1 | 1.0 | -28.2 | -13.0 | -15.2 | | 2.4870 | -18.5 | V | 3.0 | 39.5 | 1.0 | -57.0 | -13.0 | -44.0 | | 3.3160 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | 1.6580 | -0.8 | H | 3.0 | 39.1 | 1.0 | -38.9 | -13.0 | -25.9 | | 2.4870 | -12.3 | H | 3.0 | 39.5 | 1.0 | -50.8 | -13.0 | -37.8 | | 3.3160 | -22.4 | H | 3.0 | 40.1 | 1.0 | -61.5 | -13.0 | -48.5 | | Mid Channel (836.5MHz) | | | | | | | | | | 1.6730 | 10.2 | V | 3.0 | 39.1 | 1.0 | -27.9 | -13.0 | -14.9 | | 2.5090 | -19.2 | V | 3.0 | 39.5 | 1.0 | -57.7 | -13.0 | -44.7 | | 3.3460 | -21.5 | V | 3.0 | 40.1 | 1.0 | -60.7 | -13.0 | -47.7 | | 1.6730 | 2.6 | H | 3.0 | 39.1 | 1.0 | -35.5 | -13.0 | -22.5 | | 2.5090 | -16.4 | H | 3.0 | 39.5 | 1.0 | -54.9 | -13.0 | -41.9 | | 3.3460 | -24.3 | H | 3.0 | 40.1 | 1.0 | -63.4 | -13.0 | -50.4 | | High Channel (844MHz) | | | | | | | | | | 1.6880 | 10.6 | V | 3.0 | 39.1 | 1.0 | -27.5 | -13.0 | -14.5 | | 2.5320 | -15.0 | V | 3.0 | 39.5 | 1.0 | -53.5 | -13.0 | -40.5 | | 3.3760 | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.4 | -13.0 | -49.4 | | 1.6880 | 1.5 | H | 3.0 | 39.1 | 1.0 | -36.6 | -13.0 | -23.6 | | 2.5320 | -20.5 | H | 3.0 | 39.5 | 1.0 | -59.1 | -13.0 | -46.1 | | 3.3760 | -24.8 | H | 3.0 | 40.2 | 1.0 | -64.0 | -13.0 | -51.0 | | | | | | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (829MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6580 | 9.9 | V | 3.0 | 39.1 | 1.0 | -28.2 | -13.0 | -15.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4870 | -18.5 | V | 3.0 | 39.5 | 1.0 | -57.0 | -13.0 | -44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3160 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6580 | -0.8 | H | 3.0 | 39.1 | 1.0 | -38.9 | -13.0 | -25.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4870 | -12.3 | H | 3.0 | 39.5 | 1.0 | -50.8 | -13.0 | -37.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3160 | -22.4 | H | 3.0 | 40.1 | 1.0 | -61.5 | -13.0 | -48.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Channel (836.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | 10.2 | V | 3.0 | 39.1 | 1.0 | -27.9 | -13.0 | -14.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5090 | -19.2 | V | 3.0 | 39.5 | 1.0 | -57.7 | -13.0 | -44.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -21.5 | V | 3.0 | 40.1 | 1.0 | -60.7 | -13.0 | -47.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | 2.6 | H | 3.0 | 39.1 | 1.0 | -35.5 | -13.0 | -22.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5090 | -16.4 | H | 3.0 | 39.5 | 1.0 | -54.9 | -13.0 | -41.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -24.3 | H | 3.0 | 40.1 | 1.0 | -63.4 | -13.0 | -50.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (844MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6880 | 10.6 | V | 3.0 | 39.1 | 1.0 | -27.5 | -13.0 | -14.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5320 | -15.0 | V | 3.0 | 39.5 | 1.0 | -53.5 | -13.0 | -40.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3760 | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.4 | -13.0 | -49.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6880 | 1.5 | H | 3.0 | 39.1 | 1.0 | -36.6 | -13.0 | -23.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5320 | -20.5 | H | 3.0 | 39.5 | 1.0 | -59.1 | -13.0 | -46.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3760 | -24.8 | H | 3.0 | 40.2 | 1.0 | -64.0 | -13.0 | -51.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 | Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 5 10MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-20-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX LTE BAND 5, 10MHz BW,16QAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 22</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Channel (829MHz)</td></tr> <tr><td>1.6580</td><td>8.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-29.2</td><td>-13.0</td><td>-16.2</td><td></td></tr> <tr><td>2.4870</td><td>-19.5</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>3.3160</td><td>-23.1</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.3</td><td>-13.0</td><td>-49.3</td><td></td></tr> <tr><td>1.6580</td><td>-1.8</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-39.9</td><td>-13.0</td><td>-26.9</td><td></td></tr> <tr><td>2.4870</td><td>-13.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td>3.3160</td><td>-22.9</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>9.2</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-28.9</td><td>-13.0</td><td>-15.9</td><td></td></tr> <tr><td>2.5090</td><td>-20.1</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>3.3460</td><td>-22.5</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.7</td><td>-13.0</td><td>-48.7</td><td></td></tr> <tr><td>1.6730</td><td>1.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-36.5</td><td>-13.0</td><td>-23.5</td><td></td></tr> <tr><td>2.5090</td><td>-17.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>3.3460</td><td>-23.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.8</td><td>-13.0</td><td>-49.8</td><td></td></tr> <tr><td colspan="10">High Channel (844MHz)</td></tr> <tr><td>1.6880</td><td>9.6</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-28.5</td><td>-13.0</td><td>-15.5</td><td></td></tr> <tr><td>2.5320</td><td>-16.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-54.6</td><td>-13.0</td><td>-41.6</td><td></td></tr> <tr><td>3.3760</td><td>-23.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr> <tr><td>1.6880</td><td>0.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-37.6</td><td>-13.0</td><td>-24.6</td><td></td></tr> <tr><td>2.5320</td><td>-21.5</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.1</td><td>-13.0</td><td>-47.1</td><td></td></tr> <tr><td>3.3760</td><td>-24.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-63.8</td><td>-13.0</td><td>-50.8</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (829MHz) | | | | | | | | | | 1.6580 | 8.9 | V | 3.0 | 39.1 | 1.0 | -29.2 | -13.0 | -16.2 | | 2.4870 | -19.5 | V | 3.0 | 39.5 | 1.0 | -58.0 | -13.0 | -45.0 | | 3.3160 | -23.1 | V | 3.0 | 40.1 | 1.0 | -62.3 | -13.0 | -49.3 | | 1.6580 | -1.8 | H | 3.0 | 39.1 | 1.0 | -39.9 | -13.0 | -26.9 | | 2.4870 | -13.4 | H | 3.0 | 39.5 | 1.0 | -51.9 | -13.0 | -38.9 | | 3.3160 | -22.9 | H | 3.0 | 40.1 | 1.0 | -62.0 | -13.0 | -49.0 | | Mid Channel (836.5MHz) | | | | | | | | | | 1.6730 | 9.2 | V | 3.0 | 39.1 | 1.0 | -28.9 | -13.0 | -15.9 | | 2.5090 | -20.1 | V | 3.0 | 39.5 | 1.0 | -58.6 | -13.0 | -45.6 | | 3.3460 | -22.5 | V | 3.0 | 40.1 | 1.0 | -61.7 | -13.0 | -48.7 | | 1.6730 | 1.6 | H | 3.0 | 39.1 | 1.0 | -36.5 | -13.0 | -23.5 | | 2.5090 | -17.4 | H | 3.0 | 39.5 | 1.0 | -55.9 | -13.0 | -42.9 | | 3.3460 | -23.7 | H | 3.0 | 40.1 | 1.0 | -62.8 | -13.0 | -49.8 | | High Channel (844MHz) | | | | | | | | | | 1.6880 | 9.6 | V | 3.0 | 39.1 | 1.0 | -28.5 | -13.0 | -15.5 | | 2.5320 | -16.0 | V | 3.0 | 39.5 | 1.0 | -54.6 | -13.0 | -41.6 | | 3.3760 | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.5 | -13.0 | -49.5 | | 1.6880 | 0.5 | H | 3.0 | 39.1 | 1.0 | -37.6 | -13.0 | -24.6 | | 2.5320 | -21.5 | H | 3.0 | 39.5 | 1.0 | -60.1 | -13.0 | -47.1 | | 3.3760 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | | | | | | | | | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (829MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6580 | 8.9 | V | 3.0 | 39.1 | 1.0 | -29.2 | -13.0 | -16.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4870 | -19.5 | V | 3.0 | 39.5 | 1.0 | -58.0 | -13.0 | -45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3160 | -23.1 | V | 3.0 | 40.1 | 1.0 | -62.3 | -13.0 | -49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6580 | -1.8 | H | 3.0 | 39.1 | 1.0 | -39.9 | -13.0 | -26.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4870 | -13.4 | H | 3.0 | 39.5 | 1.0 | -51.9 | -13.0 | -38.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3160 | -22.9 | H | 3.0 | 40.1 | 1.0 | -62.0 | -13.0 | -49.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Channel (836.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | 9.2 | V | 3.0 | 39.1 | 1.0 | -28.9 | -13.0 | -15.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5090 | -20.1 | V | 3.0 | 39.5 | 1.0 | -58.6 | -13.0 | -45.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -22.5 | V | 3.0 | 40.1 | 1.0 | -61.7 | -13.0 | -48.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | 1.6 | H | 3.0 | 39.1 | 1.0 | -36.5 | -13.0 | -23.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5090 | -17.4 | H | 3.0 | 39.5 | 1.0 | -55.9 | -13.0 | -42.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -23.7 | H | 3.0 | 40.1 | 1.0 | -62.8 | -13.0 | -49.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (844MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6880 | 9.6 | V | 3.0 | 39.1 | 1.0 | -28.5 | -13.0 | -15.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5320 | -16.0 | V | 3.0 | 39.5 | 1.0 | -54.6 | -13.0 | -41.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3760 | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.5 | -13.0 | -49.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6880 | 0.5 | H | 3.0 | 39.1 | 1.0 | -37.6 | -13.0 | -24.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5320 | -21.5 | H | 3.0 | 39.5 | 1.0 | -60.1 | -13.0 | -47.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3760 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 | Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--------------------------------|--|---|-------------------------|------------------|------------------------|--------------|--------------------|-------------|------------------|-------------|------------|-------|
| LTE Band 5 5MHz QPSK | Company: Samsung | | | | | | | | | | | |
| | Project #: 15K22210 | | | | | | | | | | | |
| | Date: 11-20-15 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Earphone, Z Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 5, 5MHz BW, QPSK | | | | | | | | | | | |
| | | | Chamber Chamber 2 | | Pre-amplifier AFS42 | | Filter Filter 1 | | Limit Part 22 | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (826.5MHz) | | | | | | | | | |
| | | | 1.6530 | 10.1 | V | 3.0 | 39.1 | 1.0 | -28.0 | -13.0 | -15.0 | |
| | | | 2.4790 | -18.4 | V | 3.0 | 39.5 | 1.0 | -57.0 | -13.0 | -44.0 | |
| | | | 3.3060 | -21.7 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | |
| | | | 1.6530 | -0.2 | H | 3.0 | 39.1 | 1.0 | -38.3 | -13.0 | -25.3 | |
| | | | 2.4790 | -12.4 | H | 3.0 | 39.5 | 1.0 | -50.9 | -13.0 | -37.9 | |
| | | | 3.3060 | -22.2 | H | 3.0 | 40.1 | 1.0 | -61.3 | -13.0 | -48.3 | |
| | | | Mid Channel (836.5MHz) | | | | | | | | | |
| | | | 1.6730 | 10.2 | V | 3.0 | 39.1 | 1.0 | -27.9 | -13.0 | -14.9 | |
| | | | 2.5090 | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | | | 3.3460 | -21.6 | V | 3.0 | 40.1 | 1.0 | -60.8 | -13.0 | -47.8 | |
| | | | 1.6730 | 1.9 | H | 3.0 | 39.1 | 1.0 | -36.2 | -13.0 | -23.2 | |
| | | | 2.5090 | -17.3 | H | 3.0 | 39.5 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | | 3.3460 | -24.9 | H | 3.0 | 40.1 | 1.0 | -64.1 | -13.0 | -51.1 | |
| | | | High Channel (846.5MHz) | | | | | | | | | |
| | | | 1.6930 | 11.1 | V | 3.0 | 39.1 | 1.0 | -27.1 | -13.0 | -14.1 | |
| | | | 2.5390 | -15.4 | V | 3.0 | 39.6 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | | 3.3860 | -23.6 | V | 3.0 | 40.2 | 1.0 | -62.8 | -13.0 | -49.8 | | |
| | | 1.6930 | 2.0 | H | 3.0 | 39.1 | 1.0 | -36.1 | -13.0 | -23.1 | | |
| | | 2.5390 | -20.3 | H | 3.0 | 39.6 | 1.0 | -58.9 | -13.0 | -45.9 | | |
| | | 3.3860 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.7 | -13.0 | -50.7 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 5 5MHz 16QAM | Company: Samsung | | | | | | | | | | | |
| | Project #: 15K22210 | | | | | | | | | | | |
| | Date: 11-20-15 | | | | | | | | | | | |
| | Test Engineer: Steven.Kim | | | | | | | | | | | |
| | Configuration: EUT / AC Adapter / Earphone, Z Position | | | | | | | | | | | |
| | Mode: TX, LTE BAND 5, 5MHz BW, 16QAM | | | | | | | | | | | |
| | | | Chamber Chamber 2 | | Pre-amplifier AFS42 | | Filter Filter 1 | | Limit Part 22 | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (826.5MHz) | | | | | | | | | |
| | | | 1.6530 | 9.1 | V | 3.0 | 39.1 | 1.0 | -29.0 | -13.0 | -16.0 | |
| | | | 2.4790 | -19.4 | V | 3.0 | 39.5 | 1.0 | -58.0 | -13.0 | -45.0 | |
| | | | 3.3060 | -22.7 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | |
| | | | 1.6530 | -1.2 | H | 3.0 | 39.1 | 1.0 | -39.3 | -13.0 | -26.3 | |
| | | | 2.4790 | -13.4 | H | 3.0 | 39.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | | | 3.3060 | -23.0 | H | 3.0 | 40.1 | 1.0 | -62.1 | -13.0 | -49.1 | |
| | | | Mid Channel (836.5MHz) | | | | | | | | | |
| | | | 1.6730 | 9.2 | V | 3.0 | 39.1 | 1.0 | -28.9 | -13.0 | -15.9 | |
| | | | 2.5090 | -19.9 | V | 3.0 | 39.5 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | | | 3.3460 | -22.6 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | |
| | | | 1.6730 | 0.9 | H | 3.0 | 39.1 | 1.0 | -37.2 | -13.0 | -24.2 | |
| | | | 2.5090 | -18.3 | H | 3.0 | 39.5 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | | 3.3460 | -24.8 | H | 3.0 | 40.1 | 1.0 | -63.9 | -13.0 | -50.9 | |
| | | | High Channel (846.5MHz) | | | | | | | | | |
| | | | 1.6930 | 10.1 | V | 3.0 | 39.1 | 1.0 | -28.0 | -13.0 | -15.0 | |
| | | | 2.5390 | -15.9 | V | 3.0 | 39.6 | 1.0 | -54.5 | -13.0 | -41.5 | |
| | | 3.3860 | -24.4 | V | 3.0 | 40.2 | 1.0 | -63.6 | -13.0 | -50.6 | | |
| | | 1.6930 | 1.1 | H | 3.0 | 39.1 | 1.0 | -37.0 | -13.0 | -24.0 | | |
| | | 2.5390 | -21.3 | H | 3.0 | 39.6 | 1.0 | -59.9 | -13.0 | -46.9 | | |
| | | 3.3860 | -24.7 | H | 3.0 | 40.2 | 1.0 | -63.9 | -13.0 | -50.9 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LTE Band 5 3MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-20-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 5, 3MHz BW, QPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 22</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>10.0</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-28.1</td><td>-13.0</td><td>-15.1</td><td></td></tr> <tr><td>2.4675</td><td>-17.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-56.4</td><td>-13.0</td><td>-43.4</td><td></td></tr> <tr><td>3.3020</td><td>-21.9</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td>1.6510</td><td>-0.8</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-38.9</td><td>-13.0</td><td>-25.9</td><td></td></tr> <tr><td>2.4675</td><td>-12.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>3.3020</td><td>-21.9</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>10.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-27.8</td><td>-13.0</td><td>-14.8</td><td></td></tr> <tr><td>2.5090</td><td>-18.9</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>3.3460</td><td>-21.5</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-60.7</td><td>-13.0</td><td>-47.7</td><td></td></tr> <tr><td>1.6730</td><td>3.0</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-35.1</td><td>-13.0</td><td>-22.1</td><td></td></tr> <tr><td>2.5090</td><td>-16.7</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-55.2</td><td>-13.0</td><td>-42.2</td><td></td></tr> <tr><td>3.3460</td><td>-24.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-63.3</td><td>-13.0</td><td>-50.3</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>11.4</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-26.7</td><td>-13.0</td><td>-13.7</td><td></td></tr> <tr><td>2.5425</td><td>-15.0</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>3.3900</td><td>-23.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr> <tr><td>1.6950</td><td>2.1</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-36.1</td><td>-13.0</td><td>-23.1</td><td></td></tr> <tr><td>2.5425</td><td>-20.2</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-58.7</td><td>-13.0</td><td>-45.7</td><td></td></tr> <tr><td>3.3900</td><td>-24.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-63.8</td><td>-13.0</td><td>-50.8</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (825.5MHz) | | | | | | | | | | 1.6510 | 10.0 | V | 3.0 | 39.1 | 1.0 | -28.1 | -13.0 | -15.1 | | 2.4675 | -17.9 | V | 3.0 | 39.5 | 1.0 | -56.4 | -13.0 | -43.4 | | 3.3020 | -21.9 | V | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | 1.6510 | -0.8 | H | 3.0 | 39.1 | 1.0 | -38.9 | -13.0 | -25.9 | | 2.4675 | -12.8 | H | 3.0 | 39.5 | 1.0 | -51.3 | -13.0 | -38.3 | | 3.3020 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | Mid Channel (836.5MHz) | | | | | | | | | | 1.6730 | 10.3 | V | 3.0 | 39.1 | 1.0 | -27.8 | -13.0 | -14.8 | | 2.5090 | -18.9 | V | 3.0 | 39.5 | 1.0 | -57.4 | -13.0 | -44.4 | | 3.3460 | -21.5 | V | 3.0 | 40.1 | 1.0 | -60.7 | -13.0 | -47.7 | | 1.6730 | 3.0 | H | 3.0 | 39.1 | 1.0 | -35.1 | -13.0 | -22.1 | | 2.5090 | -16.7 | H | 3.0 | 39.5 | 1.0 | -55.2 | -13.0 | -42.2 | | 3.3460 | -24.2 | H | 3.0 | 40.1 | 1.0 | -63.3 | -13.0 | -50.3 | | High Channel (847.5MHz) | | | | | | | | | | 1.6950 | 11.4 | V | 3.0 | 39.1 | 1.0 | -26.7 | -13.0 | -13.7 | | 2.5425 | -15.0 | V | 3.0 | 39.6 | 1.0 | -53.6 | -13.0 | -40.6 | | 3.3900 | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.5 | -13.0 | -49.5 | | 1.6950 | 2.1 | H | 3.0 | 39.1 | 1.0 | -36.1 | -13.0 | -23.1 | | 2.5425 | -20.2 | H | 3.0 | 39.6 | 1.0 | -58.7 | -13.0 | -45.7 | | 3.3900 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (825.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6510 | 10.0 | V | 3.0 | 39.1 | 1.0 | -28.1 | -13.0 | -15.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4675 | -17.9 | V | 3.0 | 39.5 | 1.0 | -56.4 | -13.0 | -43.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3020 | -21.9 | V | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6510 | -0.8 | H | 3.0 | 39.1 | 1.0 | -38.9 | -13.0 | -25.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4675 | -12.8 | H | 3.0 | 39.5 | 1.0 | -51.3 | -13.0 | -38.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3020 | -21.9 | H | 3.0 | 40.1 | 1.0 | -61.0 | -13.0 | -48.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6730 | 10.3 | V | 3.0 | 39.1 | 1.0 | -27.8 | -13.0 | -14.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5090 | -18.9 | V | 3.0 | 39.5 | 1.0 | -57.4 | -13.0 | -44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3460 | -21.5 | V | 3.0 | 40.1 | 1.0 | -60.7 | -13.0 | -47.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | 3.0 | H | 3.0 | 39.1 | 1.0 | -35.1 | -13.0 | -22.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5090 | -16.7 | H | 3.0 | 39.5 | 1.0 | -55.2 | -13.0 | -42.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -24.2 | H | 3.0 | 40.1 | 1.0 | -63.3 | -13.0 | -50.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (847.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6950 | 11.4 | V | 3.0 | 39.1 | 1.0 | -26.7 | -13.0 | -13.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5425 | -15.0 | V | 3.0 | 39.6 | 1.0 | -53.6 | -13.0 | -40.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3900 | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.5 | -13.0 | -49.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6950 | 2.1 | H | 3.0 | 39.1 | 1.0 | -36.1 | -13.0 | -23.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5425 | -20.2 | H | 3.0 | 39.6 | 1.0 | -58.7 | -13.0 | -45.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3900 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Band 5 3MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-20-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 5, 3MHz BW, 16QAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 2px;">Filter</div> <div style="border: 1px solid black; padding: 2px;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 22</div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>9.0</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-29.1</td><td>-13.0</td><td>-16.1</td><td></td></tr> <tr><td>2.4675</td><td>-19.0</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-57.5</td><td>-13.0</td><td>-44.5</td><td></td></tr> <tr><td>3.3020</td><td>-22.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr> <tr><td>1.6510</td><td>-1.1</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-39.2</td><td>-13.0</td><td>-26.2</td><td></td></tr> <tr><td>2.4675</td><td>-13.8</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>3.3020</td><td>-23.1</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>9.2</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-28.9</td><td>-13.0</td><td>-15.9</td><td></td></tr> <tr><td>2.5090</td><td>-20.1</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr> <tr><td>3.3460</td><td>-22.6</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr> <tr><td>1.6730</td><td>1.9</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-36.2</td><td>-13.0</td><td>-23.2</td><td></td></tr> <tr><td>2.5090</td><td>-17.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>3.3460</td><td>-24.8</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-64.0</td><td>-13.0</td><td>-51.0</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>10.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-27.8</td><td>-13.0</td><td>-14.8</td><td></td></tr> <tr><td>2.5425</td><td>-15.9</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr> <tr><td>3.3900</td><td>-24.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-63.8</td><td>-13.0</td><td>-50.8</td><td></td></tr> <tr><td>1.6950</td><td>0.8</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-37.3</td><td>-13.0</td><td>-24.3</td><td></td></tr> <tr><td>2.5425</td><td>-21.2</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> <tr><td>3.3900</td><td>-24.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-63.8</td><td>-13.0</td><td>-50.8</td><td></td></tr> </tbody> </table> | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (825.5MHz) | | | | | | | | | | 1.6510 | 9.0 | V | 3.0 | 39.1 | 1.0 | -29.1 | -13.0 | -16.1 | | 2.4675 | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | 3.3020 | -22.7 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | | 1.6510 | -1.1 | H | 3.0 | 39.1 | 1.0 | -39.2 | -13.0 | -26.2 | | 2.4675 | -13.8 | H | 3.0 | 39.5 | 1.0 | -52.3 | -13.0 | -39.3 | | 3.3020 | -23.1 | H | 3.0 | 40.1 | 1.0 | -62.2 | -13.0 | -49.2 | | Mid Channel (836.5MHz) | | | | | | | | | | 1.6730 | 9.2 | V | 3.0 | 39.1 | 1.0 | -28.9 | -13.0 | -15.9 | | 2.5090 | -20.1 | V | 3.0 | 39.5 | 1.0 | -58.6 | -13.0 | -45.6 | | 3.3460 | -22.6 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | | 1.6730 | 1.9 | H | 3.0 | 39.1 | 1.0 | -36.2 | -13.0 | -23.2 | | 2.5090 | -17.4 | H | 3.0 | 39.5 | 1.0 | -55.9 | -13.0 | -42.9 | | 3.3460 | -24.8 | H | 3.0 | 40.1 | 1.0 | -64.0 | -13.0 | -51.0 | | High Channel (847.5MHz) | | | | | | | | | | 1.6950 | 10.3 | V | 3.0 | 39.1 | 1.0 | -27.8 | -13.0 | -14.8 | | 2.5425 | -15.9 | V | 3.0 | 39.6 | 1.0 | -54.5 | -13.0 | -41.5 | | 3.3900 | -24.6 | V | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | | 1.6950 | 0.8 | H | 3.0 | 39.1 | 1.0 | -37.3 | -13.0 | -24.3 | | 2.5425 | -21.2 | H | 3.0 | 39.6 | 1.0 | -59.7 | -13.0 | -46.7 | | 3.3900 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Low Channel (825.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6510 | 9.0 | V | 3.0 | 39.1 | 1.0 | -29.1 | -13.0 | -16.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4675 | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3020 | -22.7 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6510 | -1.1 | H | 3.0 | 39.1 | 1.0 | -39.2 | -13.0 | -26.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.4675 | -13.8 | H | 3.0 | 39.5 | 1.0 | -52.3 | -13.0 | -39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3020 | -23.1 | H | 3.0 | 40.1 | 1.0 | -62.2 | -13.0 | -49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6730 | 9.2 | V | 3.0 | 39.1 | 1.0 | -28.9 | -13.0 | -15.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2.5090 | -20.1 | V | 3.0 | 39.5 | 1.0 | -58.6 | -13.0 | -45.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3.3460 | -22.6 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6730 | 1.9 | H | 3.0 | 39.1 | 1.0 | -36.2 | -13.0 | -23.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5090 | -17.4 | H | 3.0 | 39.5 | 1.0 | -55.9 | -13.0 | -42.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3460 | -24.8 | H | 3.0 | 40.1 | 1.0 | -64.0 | -13.0 | -51.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| High Channel (847.5MHz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6950 | 10.3 | V | 3.0 | 39.1 | 1.0 | -27.8 | -13.0 | -14.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5425 | -15.9 | V | 3.0 | 39.6 | 1.0 | -54.5 | -13.0 | -41.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3900 | -24.6 | V | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.6950 | 0.8 | H | 3.0 | 39.1 | 1.0 | -37.3 | -13.0 | -24.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5425 | -21.2 | H | 3.0 | 39.6 | 1.0 | -59.7 | -13.0 | -46.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3900 | -24.6 | H | 3.0 | 40.2 | 1.0 | -63.8 | -13.0 | -50.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|---|--|--------------------|--------------------|----------------------|----------------------|------------------|------------------|----------------|----------------|--|
| LTE Band 5 1.4MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-20-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX LTE BAND 5, 1.4MHz BW,QPSK | | Chamber: Chamber 2 | | Pre-amplifier: AFS42 | | Filter: Filter 1 | | Limit: Part 22 | | |
| | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| | Low Channel (824.7MHz) | | | | | | | | | | |
| | 1.6494 | 10.1 | V | 3.0 | 39.1 | 1.0 | -28.0 | -13.0 | -15.0 | | |
| | 2.4741 | -18.0 | V | 3.0 | 39.5 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| | 3.2988 | -21.8 | V | 3.0 | 40.1 | 1.0 | -60.9 | -13.0 | -47.9 | | |
| | 1.6494 | 9.2 | H | 3.0 | 39.1 | 1.0 | -28.9 | -13.0 | -15.9 | | |
| | 2.4741 | -12.4 | H | 3.0 | 39.5 | 1.0 | -50.9 | -13.0 | -37.9 | | |
| | 3.2988 | -22.5 | H | 3.0 | 40.1 | 1.0 | -61.6 | -13.0 | -48.6 | | |
| | Mid Channel (836.5MHz) | | | | | | | | | | |
| | 1.6730 | 10.3 | V | 3.0 | 39.1 | 1.0 | -27.8 | -13.0 | -14.8 | | |
| | 2.5090 | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | |
| | 3.3460 | -21.4 | V | 3.0 | 40.1 | 1.0 | -60.6 | -13.0 | -47.6 | | |
| | 1.6730 | 2.9 | H | 3.0 | 39.1 | 1.0 | -35.2 | -13.0 | -22.2 | | |
| | 2.5090 | -16.3 | H | 3.0 | 39.5 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| | 3.3460 | -24.2 | H | 3.0 | 40.1 | 1.0 | -63.3 | -13.0 | -50.3 | | |
| | High Channel (844.3MHz) | | | | | | | | | | |
| | 1.6886 | 11.3 | V | 3.0 | 39.1 | 1.0 | -26.9 | -13.0 | -13.9 | | |
| | 2.5329 | -14.8 | V | 3.0 | 39.5 | 1.0 | -53.4 | -13.0 | -40.4 | | |
| | 3.3772 | -23.4 | V | 3.0 | 40.2 | 1.0 | -62.6 | -13.0 | -49.6 | | |
| | 1.6886 | 2.2 | H | 3.0 | 39.1 | 1.0 | -36.0 | -13.0 | -23.0 | | |
| | 2.5329 | -20.2 | H | 3.0 | 39.5 | 1.0 | -58.8 | -13.0 | -45.8 | | |
| | 3.3772 | -24.7 | H | 3.0 | 40.2 | 1.0 | -63.9 | -13.0 | -50.9 | | |
| | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| | LTE Band 5 1.4MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-20-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX LTE BAND 5, 1.4MHz BW,16QAM | | Chamber: Chamber 2 | | Pre-amplifier: AFS42 | | Filter: Filter 1 | | Limit: Part 22 | |
| f GHz | | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Low Channel (824.7MHz) | | | | | | | | | | | |
| 1.6494 | | 9.1 | V | 3.0 | 39.1 | 1.0 | -29.0 | -13.0 | -16.0 | | |
| 2.4741 | | -19.0 | V | 3.0 | 39.5 | 1.0 | -57.5 | -13.0 | -44.5 | | |
| 3.2988 | | -22.8 | V | 3.0 | 40.1 | 1.0 | -61.9 | -13.0 | -48.9 | | |
| 1.6494 | | 8.7 | H | 3.0 | 39.1 | 1.0 | -29.5 | -13.0 | -16.5 | | |
| 2.4741 | | -13.5 | H | 3.0 | 39.5 | 1.0 | -52.0 | -13.0 | -39.0 | | |
| 3.2988 | | -23.0 | H | 3.0 | 40.1 | 1.0 | -62.1 | -13.0 | -49.1 | | |
| Mid Channel (836.5MHz) | | | | | | | | | | | |
| 1.6730 | | 9.3 | V | 3.0 | 39.1 | 1.0 | -28.8 | -13.0 | -15.8 | | |
| 2.5090 | | -20.0 | V | 3.0 | 39.5 | 1.0 | -58.5 | -13.0 | -45.5 | | |
| 3.3460 | | -22.6 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 | | |
| 1.6730 | | 1.9 | H | 3.0 | 39.1 | 1.0 | -36.2 | -13.0 | -23.2 | | |
| 2.5090 | | -17.3 | H | 3.0 | 39.5 | 1.0 | -55.9 | -13.0 | -42.9 | | |
| 3.3460 | | -24.5 | H | 3.0 | 40.1 | 1.0 | -63.7 | -13.0 | -50.7 | | |
| High Channel (844.3MHz) | | | | | | | | | | | |
| 1.6886 | | 10.3 | V | 3.0 | 39.1 | 1.0 | -27.9 | -13.0 | -14.9 | | |
| 2.5329 | | -15.9 | V | 3.0 | 39.5 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| 3.3772 | | -23.3 | V | 3.0 | 40.2 | 1.0 | -62.4 | -13.0 | -49.4 | | |
| 1.6886 | | 1.0 | H | 3.0 | 39.1 | 1.0 | -37.1 | -13.0 | -24.1 | | |
| 2.5329 | | -21.3 | H | 3.0 | 39.5 | 1.0 | -59.8 | -13.0 | -46.8 | | |
| 3.3772 | | -24.9 | H | 3.0 | 40.2 | 1.0 | -64.1 | -13.0 | -51.1 | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

LTE Band 4

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | |
|---|--|--|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 4 20MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-23-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz BW, QPSK | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Channel (1720MHz) | | | | | | | | | |
| | 3.4400 | -16.0 | V | 3.0 | 40.2 | 1.0 | -55.3 | -13.0 | -42.3 | |
| | 5.1600 | -17.1 | V | 3.0 | 40.9 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | 6.8800 | -14.8 | V | 3.0 | 41.0 | 1.0 | -54.8 | -13.0 | -41.8 | |
| | 3.4400 | -16.4 | H | 3.0 | 40.2 | 1.0 | -55.6 | -13.0 | -42.6 | |
| | 5.1600 | -17.4 | H | 3.0 | 40.9 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | 6.8800 | -17.1 | H | 3.0 | 41.0 | 1.0 | -57.1 | -13.0 | -44.1 | |
| Mid Channel (1732.5MHz) | | | | | | | | | | |
| 3.4650 | -15.6 | V | 3.0 | 40.3 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| 5.1975 | -15.0 | V | 3.0 | 40.9 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| 6.9300 | -14.3 | V | 3.0 | 41.0 | 1.0 | -54.3 | -13.0 | -41.3 | | |
| 3.4650 | -16.8 | H | 3.0 | 40.3 | 1.0 | -56.0 | -13.0 | -43.0 | | |
| 5.1975 | -15.3 | H | 3.0 | 40.9 | 1.0 | -55.2 | -13.0 | -42.2 | | |
| 6.9300 | -16.8 | H | 3.0 | 41.0 | 1.0 | -56.8 | -13.0 | -43.8 | | |
| High Channel (1745MHz) | | | | | | | | | | |
| 3.4900 | -16.6 | V | 3.0 | 40.3 | 1.0 | -55.9 | -13.0 | -42.9 | | |
| 5.2350 | -17.8 | V | 3.0 | 40.9 | 1.0 | -57.7 | -13.0 | -44.7 | | |
| 6.9800 | -15.9 | V | 3.0 | 41.0 | 1.0 | -55.9 | -13.0 | -42.9 | | |
| 3.4900 | -17.9 | H | 3.0 | 40.3 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| 5.2350 | -15.3 | H | 3.0 | 40.9 | 1.0 | -55.2 | -13.0 | -42.2 | | |
| 6.9800 | -16.1 | H | 3.0 | 41.0 | 1.0 | -56.1 | -13.0 | -43.1 | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 4 20MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-23-15 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz BW, 16QAM | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">Chamber Chamber 2</div> <div style="border: 1px solid black; padding: 2px;">Pre-amplifier AFS42</div> <div style="border: 1px solid black; padding: 2px;">Filter Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Limit FCC Part 27</div> </div> | | | | | | | | | |
| | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Channel (1720MHz) | | | | | | | | | |
| | 3.4400 | -18.8 | V | 3.0 | 40.2 | 1.0 | -58.0 | -13.0 | -45.0 | |
| | 5.1600 | -18.7 | V | 3.0 | 40.9 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | 6.8800 | -15.9 | V | 3.0 | 41.0 | 1.0 | -55.9 | -13.0 | -42.9 | |
| | 3.4400 | -19.0 | H | 3.0 | 40.2 | 1.0 | -58.3 | -13.0 | -45.3 | |
| | 5.1600 | -19.6 | H | 3.0 | 40.9 | 1.0 | -59.4 | -13.0 | -46.4 | |
| | 6.8800 | -17.1 | H | 3.0 | 41.0 | 1.0 | -57.1 | -13.0 | -44.1 | |
| Mid Channel (1732.5MHz) | | | | | | | | | | |
| 3.4650 | -18.3 | V | 3.0 | 40.3 | 1.0 | -57.6 | -13.0 | -44.6 | | |
| 5.1975 | -17.1 | V | 3.0 | 40.9 | 1.0 | -57.0 | -13.0 | -44.0 | | |
| 6.9300 | -15.5 | V | 3.0 | 41.0 | 1.0 | -55.5 | -13.0 | -42.5 | | |
| 3.4650 | -18.7 | H | 3.0 | 40.3 | 1.0 | -57.9 | -13.0 | -44.9 | | |
| 5.1975 | -16.7 | H | 3.0 | 40.9 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| 6.9300 | -16.7 | H | 3.0 | 41.0 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| High Channel (1745MHz) | | | | | | | | | | |
| 3.4900 | -19.1 | V | 3.0 | 40.3 | 1.0 | -58.4 | -13.0 | -45.4 | | |
| 5.2350 | -19.0 | V | 3.0 | 40.9 | 1.0 | -58.9 | -13.0 | -45.9 | | |
| 6.9800 | -16.6 | V | 3.0 | 41.0 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| 3.4900 | -19.2 | H | 3.0 | 40.3 | 1.0 | -58.5 | -13.0 | -45.5 | | |
| 5.2350 | -18.3 | H | 3.0 | 40.9 | 1.0 | -58.1 | -13.0 | -45.1 | | |
| 6.9800 | -16.4 | H | 3.0 | 41.0 | 1.0 | -56.4 | -13.0 | -43.4 | | |
| Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|---------------------------------|----------------|---|--------------------------|-----------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 4 15MHz QPSK | Company: | Samsung | | | | | | | | | | |
| | Project #: | 15K22210 | | | | | | | | | | |
| | Date: | 11-24-15 | | | | | | | | | | |
| | Test Engineer: | Steven Kim | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | | |
| | Mode: | TX, LTE BAND 4, 15MHz BW, QPSK | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 27 | | | | | | |
| | | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1717.5MHz) | | | | | | | | | |
| | | | 3.4350 | -15.5 | V | 3.0 | 40.2 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | | | 5.1525 | -18.0 | V | 3.0 | 40.9 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | | | 6.8700 | -15.8 | V | 3.0 | 41.0 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | | 3.4350 | -15.5 | H | 3.0 | 40.2 | 1.0 | -54.8 | -13.0 | -41.8 | |
| | | | 5.1525 | -16.6 | H | 3.0 | 40.9 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | | | 6.8700 | -15.9 | H | 3.0 | 41.0 | 1.0 | -55.9 | -13.0 | -42.9 | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | | 3.4650 | -16.9 | V | 3.0 | 40.3 | 1.0 | -56.1 | -13.0 | -43.1 | |
| | | | 5.1975 | -18.5 | V | 3.0 | 40.9 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | | | 6.9300 | -14.7 | V | 3.0 | 41.0 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | | | 3.4650 | -17.5 | H | 3.0 | 40.3 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | | 5.1975 | -14.7 | H | 3.0 | 40.9 | 1.0 | -54.6 | -13.0 | -41.6 | |
| | | | 6.9300 | -16.5 | H | 3.0 | 41.0 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | | | High Channel (1747.5MHz) | | | | | | | | | |
| | | | 3.4950 | -18.2 | V | 3.0 | 40.3 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | | 5.2425 | -18.8 | V | 3.0 | 40.9 | 1.0 | -58.7 | -13.0 | -45.7 | | |
| | | 6.9900 | -14.4 | V | 3.0 | 41.0 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| | | 3.4950 | -20.4 | H | 3.0 | 40.3 | 1.0 | -59.7 | -13.0 | -46.7 | | |
| | | 5.2425 | -18.6 | H | 3.0 | 40.9 | 1.0 | -58.4 | -13.0 | -45.4 | | |
| | | 6.9900 | -16.5 | H | 3.0 | 41.0 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 4 15MHz 16QAM | Company: | Samsung | | | | | | | | | | |
| | Project #: | 15K22210 | | | | | | | | | | |
| | Date: | 11-24-15 | | | | | | | | | | |
| | Test Engineer: | Steven Kim | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | | |
| | Mode: | TX, LTE BAND 4, 15MHz BW, 16QAM | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 27 | | | | | | |
| | | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1717.5MHz) | | | | | | | | | |
| | | | 3.4350 | -18.1 | V | 3.0 | 40.2 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | | 5.1525 | -19.0 | V | 3.0 | 40.9 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | | | 6.8700 | -16.1 | V | 3.0 | 41.0 | 1.0 | -56.1 | -13.0 | -43.1 | |
| | | | 3.4350 | -17.6 | H | 3.0 | 40.2 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | | 5.1525 | -18.1 | H | 3.0 | 40.9 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | | | 6.8700 | -16.1 | H | 3.0 | 41.0 | 1.0 | -56.1 | -13.0 | -43.1 | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | | 3.4650 | -19.8 | V | 3.0 | 40.3 | 1.0 | -59.0 | -13.0 | -46.0 | |
| | | | 5.1975 | -18.7 | V | 3.0 | 40.9 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | | | 6.9300 | -15.8 | V | 3.0 | 41.0 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | | 3.4650 | -19.6 | H | 3.0 | 40.3 | 1.0 | -58.8 | -13.0 | -45.8 | |
| | | | 5.1975 | -16.0 | H | 3.0 | 40.9 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | | 6.9300 | -16.4 | H | 3.0 | 41.0 | 1.0 | -56.4 | -13.0 | -43.4 | |
| | | | High Channel (1747.5MHz) | | | | | | | | | |
| | | | 3.4950 | -19.5 | V | 3.0 | 40.3 | 1.0 | -58.8 | -13.0 | -45.8 | |
| | | 5.2425 | -19.6 | V | 3.0 | 40.9 | 1.0 | -59.5 | -13.0 | -46.5 | | |
| | | 6.9900 | -16.1 | V | 3.0 | 41.0 | 1.0 | -56.1 | -13.0 | -43.1 | | |
| | | 3.4950 | -21.3 | H | 3.0 | 40.3 | 1.0 | -60.5 | -13.0 | -47.5 | | |
| | | 5.2425 | -19.3 | H | 3.0 | 40.9 | 1.0 | -59.1 | -13.0 | -46.1 | | |
| | | 6.9900 | -16.9 | H | 3.0 | 41.0 | 1.0 | -56.9 | -13.0 | -43.9 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---------------------------------|---|---|-----------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 4 10MHz QPSK | Company: Samsung Project #: 15K22210 Date: 11-24-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 4, 10MHz BW, QPSK | | | | | | | | | | |
| | Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: FCC Part 27 | | | | | | | | | | |
| | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1715MHz) | | | | | | | | | |
| | | 3.4300 | -16.2 | V | 3.0 | 40.2 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | | 5.1450 | -16.8 | V | 3.0 | 40.9 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | 6.8600 | -16.0 | V | 3.0 | 41.0 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | | 3.4300 | -16.5 | H | 3.0 | 40.2 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | 5.1450 | -13.5 | H | 3.0 | 40.9 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | | 6.8600 | -15.8 | H | 3.0 | 41.0 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | 3.4650 | -17.1 | V | 3.0 | 40.3 | 1.0 | -56.4 | -13.0 | -43.4 | |
| | | 5.1975 | -15.6 | V | 3.0 | 40.9 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | | 6.9300 | -16.5 | V | 3.0 | 41.0 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | | 3.4650 | -16.5 | H | 3.0 | 40.3 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | 5.1975 | -14.3 | H | 3.0 | 40.9 | 1.0 | -54.2 | -13.0 | -41.2 | |
| | | 6.9300 | -16.8 | H | 3.0 | 41.0 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | High Channel (1750MHz) | | | | | | | | | |
| | | 3.5000 | -16.3 | V | 3.0 | 40.3 | 1.0 | -55.6 | -13.0 | -42.6 | |
| | | 5.2500 | -17.3 | V | 3.0 | 40.9 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | 7.0000 | -17.5 | V | 3.0 | 41.0 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | | 3.5000 | -18.0 | H | 3.0 | 40.3 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | 5.2500 | -15.9 | H | 3.0 | 40.9 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | | 7.0000 | -16.9 | H | 3.0 | 41.0 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |
| LTE Band 4 10MHz 16QAM | Company: Samsung Project #: 15K22210 Date: 11-24-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 4, 10MHz BW, 16QAM | | | | | | | | | | |
| | Chamber: Chamber 2 Pre-amplifier: AFS42 Filter: Filter 1 Limit: FCC Part 27 | | | | | | | | | | |
| | | f GHz | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | Low Channel (1715MHz) | | | | | | | | | |
| | | 3.4300 | -18.0 | V | 3.0 | 40.2 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | 5.1450 | -17.9 | V | 3.0 | 40.9 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | 6.8600 | -16.0 | V | 3.0 | 41.0 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | | 3.4300 | -18.5 | H | 3.0 | 40.2 | 1.0 | -57.7 | -13.0 | -44.7 | |
| | | 5.1450 | -15.5 | H | 3.0 | 40.9 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | | 6.8600 | -16.3 | H | 3.0 | 41.0 | 1.0 | -56.2 | -13.0 | -43.2 | |
| | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | 3.4650 | -19.4 | V | 3.0 | 40.3 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | | 5.1975 | -17.0 | V | 3.0 | 40.9 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | 6.9300 | -16.7 | V | 3.0 | 41.0 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | 3.4650 | -18.6 | H | 3.0 | 40.3 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | 5.1975 | -15.6 | H | 3.0 | 40.9 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | | 6.9300 | -16.6 | H | 3.0 | 41.0 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | | High Channel (1750MHz) | | | | | | | | | |
| | | 3.5000 | -18.5 | V | 3.0 | 40.3 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | | 5.2500 | -18.7 | V | 3.0 | 40.9 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | | 7.0000 | -17.1 | V | 3.0 | 41.0 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | 3.5000 | -19.1 | H | 3.0 | 40.3 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | | 5.2500 | -18.0 | H | 3.0 | 40.9 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | | 7.0000 | -16.9 | H | 3.0 | 41.0 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| | | UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--------------------------------|----------------|---|--------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| LTE Band 4 5MHz QPSK | Company: | Samsung | | | | | | | | | | |
| | Project #: | 15K22210 | | | | | | | | | | |
| | Date: | 11-24-15 | | | | | | | | | | |
| | Test Engineer: | Steven Kim | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | | |
| | Mode: | TX, LTE BAND 4, 5MHz BW, QPSK | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 27 | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1712.5MHz) | | | | | | | | | |
| | | | 3.4250 | -14.4 | V | 3.0 | 40.2 | 1.0 | -53.6 | -13.0 | -40.6 | |
| | | | 5.1375 | -19.2 | V | 3.0 | 40.9 | 1.0 | -59.1 | -13.0 | -46.1 | |
| | | | 6.5800 | -17.3 | V | 3.0 | 40.9 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | | 3.4250 | -15.5 | H | 3.0 | 40.2 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | | | 5.1375 | -19.3 | H | 3.0 | 40.9 | 1.0 | -59.2 | -13.0 | -46.2 | |
| | | | 6.5800 | -17.3 | H | 3.0 | 40.9 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | | 3.4650 | -17.5 | V | 3.0 | 40.3 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | | 5.1975 | -16.3 | V | 3.0 | 40.9 | 1.0 | -56.2 | -13.0 | -43.2 | |
| | | | 6.9300 | -16.8 | V | 3.0 | 41.0 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | | 3.4650 | -16.7 | H | 3.0 | 40.3 | 1.0 | -55.9 | -13.0 | -42.9 | |
| | | | 5.1975 | -14.3 | H | 3.0 | 40.9 | 1.0 | -54.2 | -13.0 | -41.2 | |
| | | | 6.9300 | -16.7 | H | 3.0 | 41.0 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | | High Channel (1752.5MHz) | | | | | | | | | |
| | | | 3.5050 | -20.4 | V | 3.0 | 40.3 | 1.0 | -59.7 | -13.0 | -46.7 | |
| | | 5.2575 | -13.8 | V | 3.0 | 40.9 | 1.0 | -53.6 | -13.0 | -40.6 | | |
| | | 7.0100 | -16.2 | V | 3.0 | 41.0 | 1.0 | -56.2 | -13.0 | -43.2 | | |
| | | 3.5050 | -19.3 | H | 3.0 | 40.3 | 1.0 | -58.6 | -13.0 | -45.6 | | |
| | | 5.2575 | -17.1 | H | 3.0 | 40.9 | 1.0 | -56.9 | -13.0 | -43.9 | | |
| | | 7.0100 | -17.1 | H | 3.0 | 41.0 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |
| LTE Band 4 5MHz 16QAM | Company: | Samsung | | | | | | | | | | |
| | Project #: | 15K22210 | | | | | | | | | | |
| | Date: | 11-24-15 | | | | | | | | | | |
| | Test Engineer: | Steven Kim | | | | | | | | | | |
| | Configuration: | EUT / AC Adapter / Ear Phone / X-Position | | | | | | | | | | |
| | Mode: | TX, LTE BAND 7, 5MHz BW, 16QAM | | | | | | | | | | |
| | | | Chamber | Pre-amplifier | Filter | Limit | | | | | | |
| | | | Chamber 2 | AFS42 | Filter 1 | FCC Part 27 | | | | | | |
| | | | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | | | Low Channel (1712.5MHz) | | | | | | | | | |
| | | | 3.4250 | -16.4 | V | 3.0 | 40.2 | 1.0 | -55.6 | -13.0 | -42.6 | |
| | | | 5.1375 | -19.4 | V | 3.0 | 40.9 | 1.0 | -59.3 | -13.0 | -46.3 | |
| | | | 6.5800 | -17.4 | V | 3.0 | 40.9 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | | 3.4250 | -17.6 | H | 3.0 | 40.2 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | | | 5.1375 | -19.3 | H | 3.0 | 40.9 | 1.0 | -59.2 | -13.0 | -46.2 | |
| | | | 6.5800 | -17.4 | H | 3.0 | 40.9 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | | Mid Channel (1732.5MHz) | | | | | | | | | |
| | | | 3.4650 | -19.4 | V | 3.0 | 40.3 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | | | 5.1975 | -19.6 | V | 3.0 | 40.9 | 1.0 | -59.5 | -13.0 | -46.5 | |
| | | | 6.9300 | -16.3 | V | 3.0 | 41.0 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | | | 3.4650 | -18.9 | H | 3.0 | 40.3 | 1.0 | -58.2 | -13.0 | -45.2 | |
| | | | 5.1975 | -15.8 | H | 3.0 | 40.9 | 1.0 | -55.7 | -13.0 | -42.7 | |
| | | | 6.9300 | -16.6 | H | 3.0 | 41.0 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | | | High Channel (1752.5MHz) | | | | | | | | | |
| | | | 3.5050 | -21.3 | V | 3.0 | 40.3 | 1.0 | -60.6 | -13.0 | -47.6 | |
| | | 5.2575 | -16.6 | V | 3.0 | 40.9 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| | | 7.0100 | -16.7 | V | 3.0 | 41.0 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| | | 3.5050 | -20.4 | H | 3.0 | 40.3 | 1.0 | -59.7 | -13.0 | -46.7 | | |
| | | 5.2575 | -16.9 | H | 3.0 | 40.9 | 1.0 | -56.7 | -13.0 | -43.7 | | |
| | | 7.0100 | -17.2 | H | 3.0 | 41.0 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| | | Rev. 03.03.09 Note: No other emissions were detected above the system noise floor. | | | | | | | | | | |