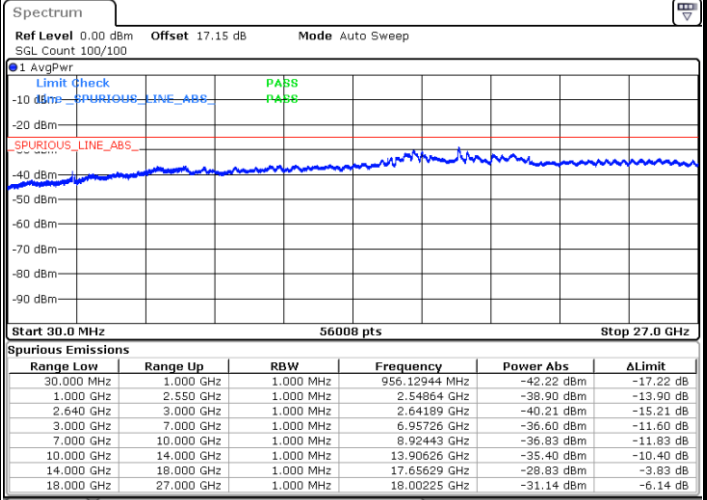
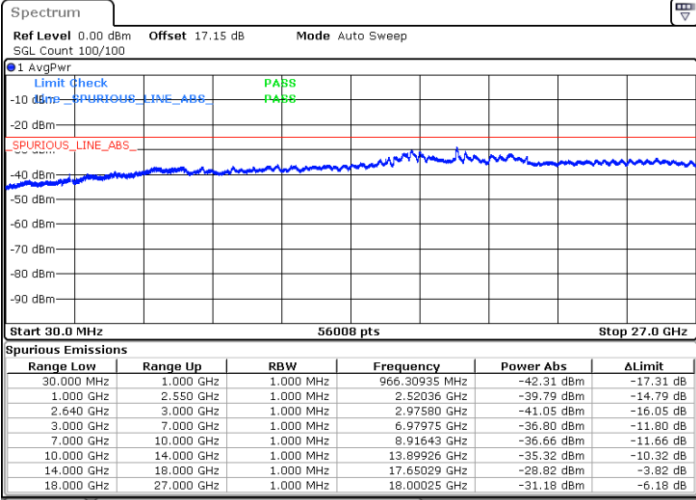




LTE Band 38 / 10MHz

Lowest Channel / QPSK

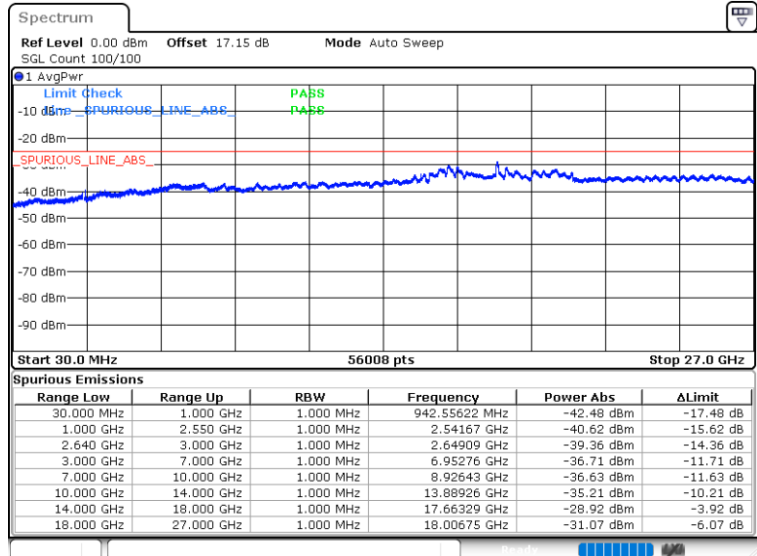
Middle Channel / QPSK



Date: 15.APR.2023 17:08:53

Date: 15.APR.2023 17:10:26

Highest Channel / QPSK



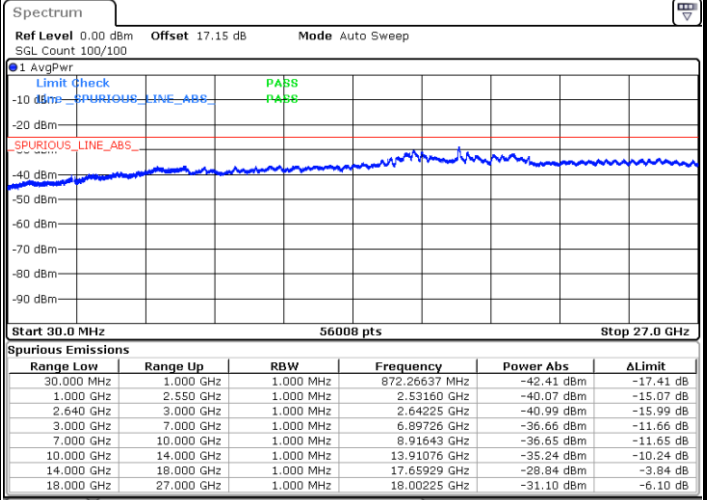
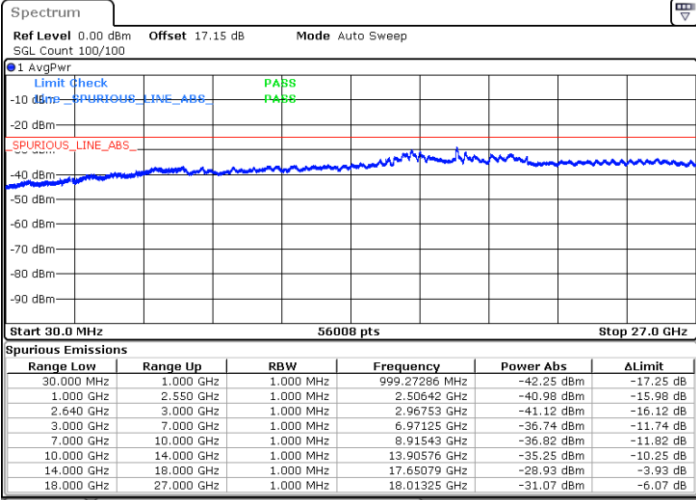
Date: 15.APR.2023 17:11:59



LTE Band 38 / 15MHz

Lowest Channel / QPSK

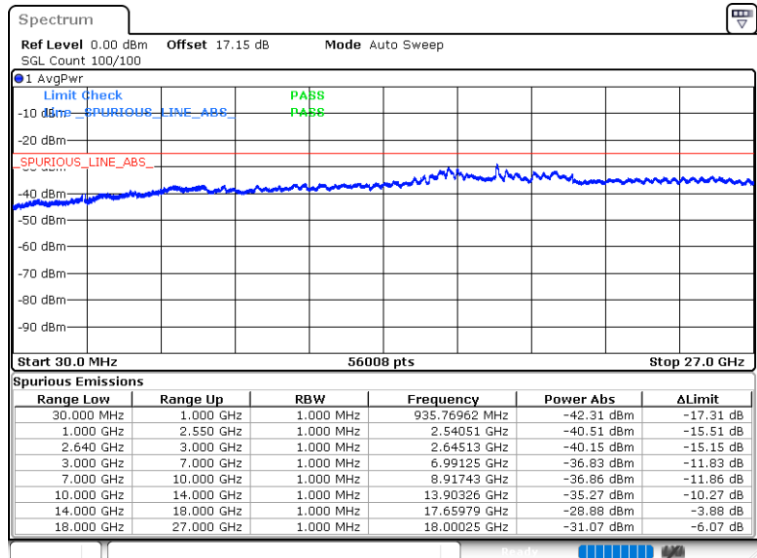
Middle Channel / QPSK



Date: 15.APR.2023 17:13:33

Date: 15.APR.2023 17:15:07

Highest Channel / QPSK



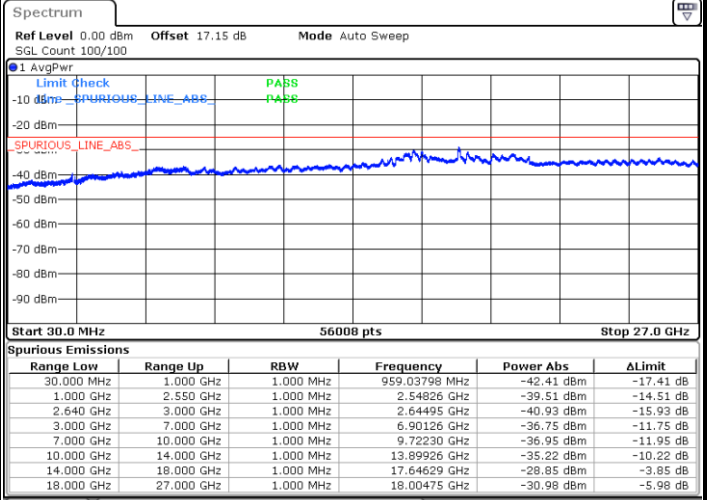
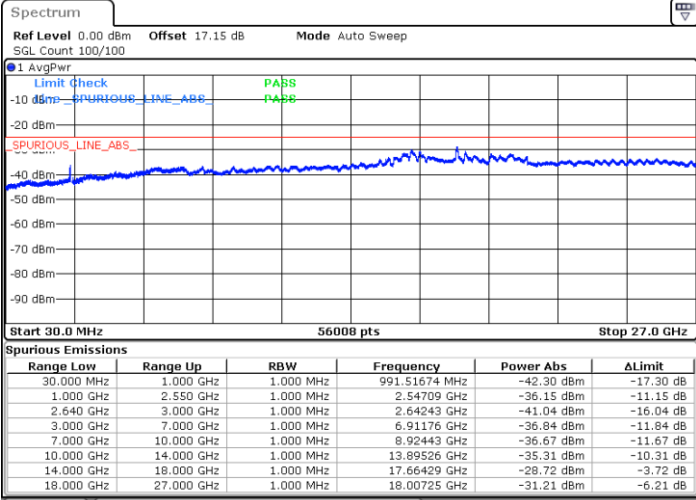
Date: 15.APR.2023 17:16:40



LTE Band 38 / 20MHz

Lowest Channel / QPSK

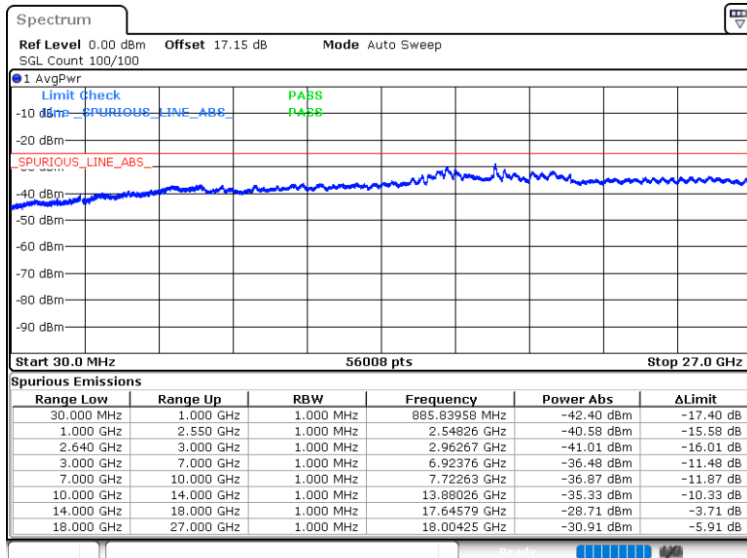
Middle Channel / QPSK



Date: 15.APR.2023 17:18:14

Date: 15.APR.2023 17:19:46

Highest Channel / QPSK



Date: 15.APR.2023 17:21:20



Frequency Stability

| Test Conditions | | LTE Band 38 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0035 | PASS |
| 40 | Normal Voltage | 0.0041 | |
| 30 | Normal Voltage | 0.0006 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0035 | |
| 0 | Normal Voltage | 0.0033 | |
| -10 | Normal Voltage | 0.0005 | |
| -20 | Normal Voltage | 0.0034 | |
| -30 | Normal Voltage | 0.0020 | |
| 20 | Maximum Voltage | 0.0018 | |
| 20 | Normal Voltage | 0.0035 | |
| 20 | Battery End Point | 0.0020 | |

Note:

- 1. Normal Voltage = 3.87 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.2 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Ant. 0>

LTE Band 5

| LTE Band 5 / 10MHz / QPSK | | | | | | | | | |
|---------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1649 | -40.57 | -13 | -27.57 | -56.73 | -46.95 | 0.71 | 9.24 | H |
| | 2474 | -60.59 | -13 | -47.59 | -80.65 | -67.74 | 0.95 | 10.25 | H |
| | 3298 | -58.32 | -13 | -45.32 | -81.89 | -65.86 | 1.10 | 10.79 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1649 | -36.87 | -13 | -23.87 | -52.89 | -43.25 | 0.71 | 9.24 | V |
| | 2474 | -61.29 | -13 | -48.29 | -81.38 | -68.44 | 0.95 | 10.25 | V |
| | 3298 | -58.74 | -13 | -45.74 | -82.12 | -66.28 | 1.10 | 10.79 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1664 | -39.34 | -13 | -26.34 | -55.51 | -45.82 | 0.72 | 9.35 | H |
| | 2496 | -57.17 | -13 | -44.17 | -77.4 | -64.28 | 0.95 | 10.21 | H |
| | 3328 | -58.56 | -13 | -45.56 | -82.13 | -66.22 | 1.11 | 10.91 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1664 | -36.79 | -13 | -23.79 | -52.83 | -43.27 | 0.72 | 9.35 | V |
| | 2496 | -46.83 | -13 | -33.83 | -67.05 | -53.94 | 0.95 | 10.21 | V |
| | 3328 | -58.93 | -13 | -45.93 | -82.36 | -66.59 | 1.11 | 10.91 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1679 | -39.52 | -13 | -26.52 | -55.7 | -46.11 | 0.72 | 9.45 | H |
| | 2519 | -60.94 | -13 | -47.94 | -81.35 | -68.06 | 0.95 | 10.22 | H |
| | 3358 | -58.89 | -13 | -45.89 | -82.46 | -66.66 | 1.11 | 11.03 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1679 | -37.50 | -13 | -24.50 | -53.55 | -44.09 | 0.72 | 9.45 | V |
| | 2519 | -61.18 | -13 | -48.18 | -81.55 | -68.30 | 0.95 | 10.22 | V |
| | 3358 | -59.20 | -13 | -46.20 | -82.68 | -66.97 | 1.11 | 11.03 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12

| LTE Band 12 / 10MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1399 | -38.66 | -13.00 | -25.66 | -54.70 | -43.43 | 0.77 | 7.69 | H |
| | 2099 | -48.71 | -13.00 | -35.71 | -67.08 | -55.49 | 0.87 | 9.80 | H |
| | 2798 | -60.35 | -13.00 | -47.35 | -81.37 | -67.79 | 1.01 | 10.60 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1399 | -40.37 | -13.00 | -27.37 | -56.11 | -45.14 | 0.77 | 7.69 | V |
| | 2099 | -40.20 | -13.00 | -27.20 | -58.63 | -46.98 | 0.87 | 9.80 | V |
| | 2798 | -60.87 | -13.00 | -47.87 | -81.90 | -68.31 | 1.01 | 10.60 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 1406 | -36.28 | -13.00 | -23.28 | -52.31 | -41.11 | 0.77 | 7.75 | H |
| | 2109 | -60.31 | -13.00 | -47.31 | -78.77 | -67.09 | 0.87 | 9.80 | H |
| | 2812 | -60.41 | -13.00 | -47.41 | -81.55 | -67.81 | 1.01 | 10.56 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1406 | -39.10 | -13.00 | -26.10 | -54.85 | -43.93 | 0.77 | 7.75 | V |
| | 2109 | -38.10 | -13.00 | -25.10 | -56.61 | -44.88 | 0.87 | 9.80 | V |
| | 2812 | -60.67 | -13.00 | -47.67 | -81.80 | -68.07 | 1.01 | 10.56 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|--------|--------|--------|--------|------|-------|---|
| Highest | 1413 | -37.57 | -13.00 | -24.57 | -53.61 | -42.46 | 0.76 | 7.80 | H |
| | 2120 | -55.44 | -13.00 | -42.44 | -73.99 | -62.22 | 0.87 | 9.80 | H |
| | 2826 | -60.79 | -13.00 | -47.79 | -82.07 | -68.15 | 1.02 | 10.52 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 1413 | -39.35 | -13.00 | -26.35 | -55.12 | -44.24 | 0.76 | 7.80 | V |
| | 2120 | -58.49 | -13.00 | -45.49 | -77.09 | -65.27 | 0.87 | 9.80 | V |
| | 2826 | -60.98 | -13.00 | -47.98 | -82.23 | -68.34 | 1.02 | 10.52 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



<Ant. 1>

LTE Band 2

| LTE Band 2 / 20MHz / QPSK | | | | | | | | | |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 3702 | -47.94 | -13 | -34.94 | -72.87 | -58.22 | 1.17 | 11.45 | H |
| | 5553 | -42.46 | -13 | -29.46 | -72.53 | -52.97 | 1.49 | 12.01 | H |
| | 7404 | -51.31 | -13 | -38.31 | -84.77 | -60.62 | 1.71 | 11.02 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3702 | -49.21 | -13 | -36.21 | -73.98 | -59.49 | 1.17 | 11.45 | V |
| | 5553 | -37.45 | -13 | -24.45 | -67.19 | -47.96 | 1.49 | 12.01 | V |
| | 7404 | -51.33 | -13 | -38.33 | -84.74 | -60.64 | 1.71 | 11.02 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 3742 | -53.95 | -13 | -40.95 | -79.07 | -64.16 | 1.18 | 11.39 | H |
| | 5613 | -47.29 | -13 | -34.29 | -77.58 | -57.87 | 1.46 | 12.05 | H |
| | 7484 | -50.92 | -13 | -37.92 | -84.41 | -60.57 | 1.68 | 11.34 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3742 | -51.29 | -13 | -38.29 | -76.24 | -61.50 | 1.18 | 11.39 | V |
| | 5613 | -37.94 | -13 | -24.94 | -67.87 | -48.52 | 1.46 | 12.05 | V |
| | 7484 | -51.44 | -13 | -38.44 | -84.83 | -61.09 | 1.68 | 11.34 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3782 | -48.17 | -13 | -35.17 | -73.47 | -58.31 | 1.19 | 11.33 | H |
| | 5673 | -41.39 | -13 | -28.39 | -71.92 | -51.72 | 1.48 | 11.81 | H |
| | 7564 | -50.99 | -13 | -37.99 | -84.48 | -60.76 | 1.69 | 11.46 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 3782 | -49.67 | -13 | -36.67 | -74.78 | -59.81 | 1.19 | 11.33 | V |
| | 5673 | -36.74 | -13 | -23.74 | -67.13 | -47.07 | 1.48 | 11.81 | V |
| | 7564 | -51.19 | -13 | -38.19 | -84.62 | -60.96 | 1.69 | 11.46 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 38

| LTE Band 38 / 20MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5142 | -53.78 | -25 | -28.78 | -83.77 | -63.56 | 1.40 | 11.18 | H |
| | 7713 | -50.63 | -25 | -25.63 | -84.28 | -60.24 | 1.72 | 11.33 | H |
| | 10284 | -46.97 | -25 | -21.97 | -84.56 | -56.46 | 2.01 | 11.50 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 5142 | -53.79 | -25 | -28.79 | -83.84 | -63.57 | 1.40 | 11.18 | V |
| | 7713 | -50.41 | -25 | -25.41 | -84.2 | -60.02 | 1.72 | 11.33 | V |
| | 10284 | -47.53 | -25 | -22.53 | -84.53 | -57.02 | 2.01 | 11.50 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| Middle | 5172 | -54.01 | -25 | -29.01 | -84.03 | -63.84 | 1.41 | 11.24 | H |
| | 7758 | -50.64 | -25 | -25.64 | -84.35 | -60.18 | 1.72 | 11.26 | H |
| | 10344 | -47.28 | -25 | -22.28 | -84.94 | -56.77 | 2.01 | 11.50 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 5172 | -54.08 | -25 | -29.08 | -84.18 | -63.91 | 1.41 | 11.24 | V |
| | 7758 | -50.57 | -25 | -25.57 | -84.49 | -60.11 | 1.72 | 11.26 | V |
| | 10344 | -47.86 | -25 | -22.86 | -84.94 | -57.35 | 2.01 | 11.50 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |



| | | | | | | | | | |
|---------|-------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 5202 | -54.27 | -25 | -29.27 | -84.32 | -64.15 | 1.42 | 11.30 | H |
| | 7803 | -50.49 | -25 | -25.49 | -84.26 | -59.96 | 1.73 | 11.20 | H |
| | 10404 | -47.13 | -25 | -22.13 | -84.85 | -56.61 | 2.02 | 11.50 | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | | | | | | | | | H |
| | 5202 | -53.72 | -25 | -28.72 | -83.86 | -63.60 | 1.42 | 11.30 | V |
| | 7803 | -50.00 | -25 | -25.00 | -84.04 | -59.47 | 1.73 | 11.20 | V |
| | 10404 | -47.78 | -25 | -22.78 | -84.92 | -57.26 | 2.02 | 11.50 | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |
| | | | | | | | | | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.