

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

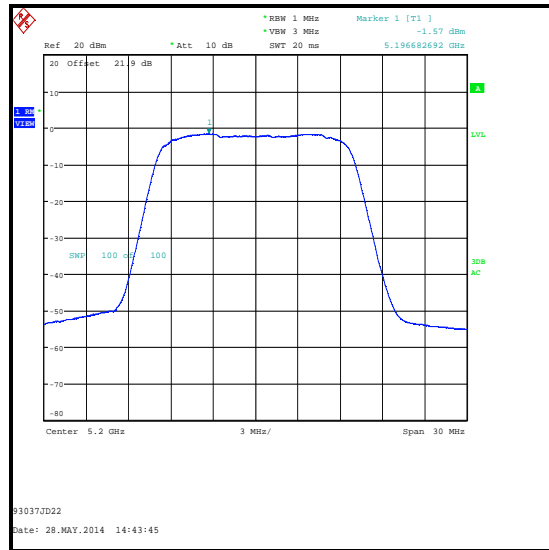
Results: Omnidirectional Antenna / 15 MHz Channel / 256QAM

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -1.1 | -1.0 | 2.0 | 11.5 | 9.5 | Complied |
| Middle | -1.5 | -1.1 | 1.7 | 11.5 | 9.8 | Complied |
| Top | -1.1 | -0.6 | 2.2 | 11.5 | 9.3 | Complied |

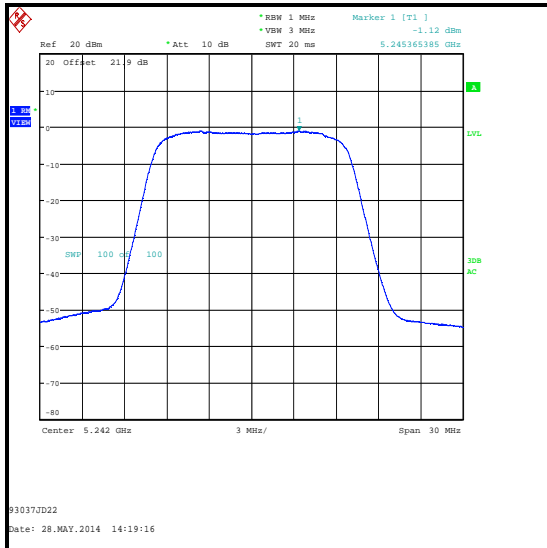
H Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 15 MHz Channel / 256QAM

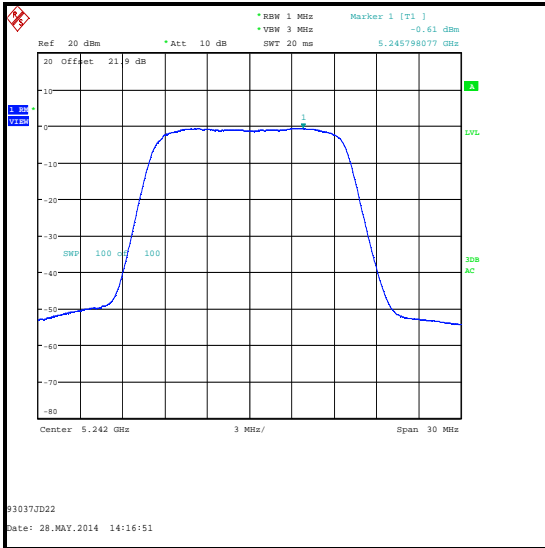
V Port



Bottom Channel



Middle Channel



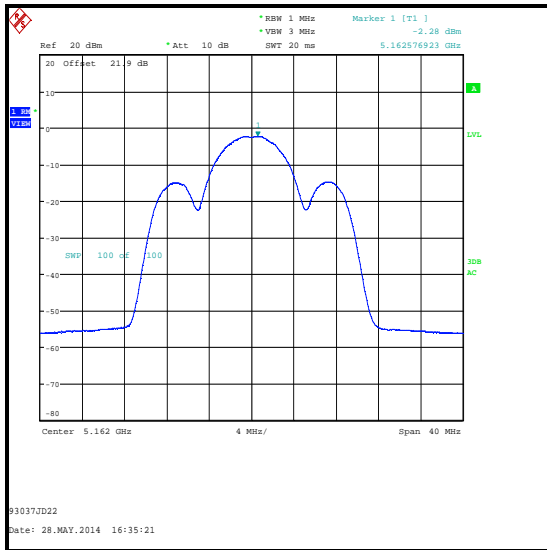
Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

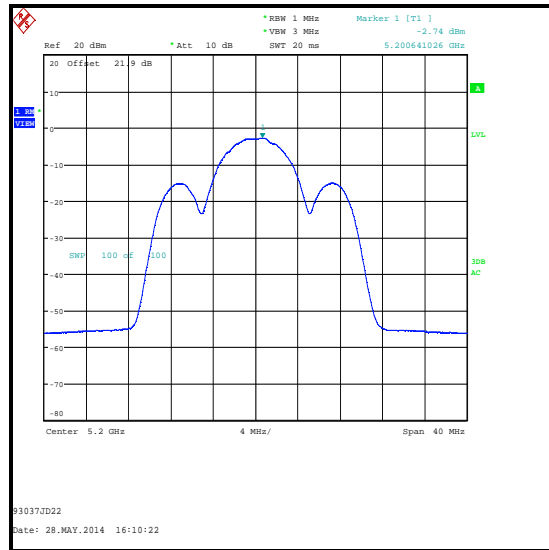
Results: Omnidirectional Antenna / 20 MHz Channel / ACQ

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -2.2 | -2.0 | 0.9 | 11.5 | 10.6 | Complied |
| Middle | -2.7 | -2.3 | 0.5 | 11.5 | 11.0 | Complied |
| Top | -2.2 | -2.0 | 0.9 | 11.5 | 10.6 | Complied |

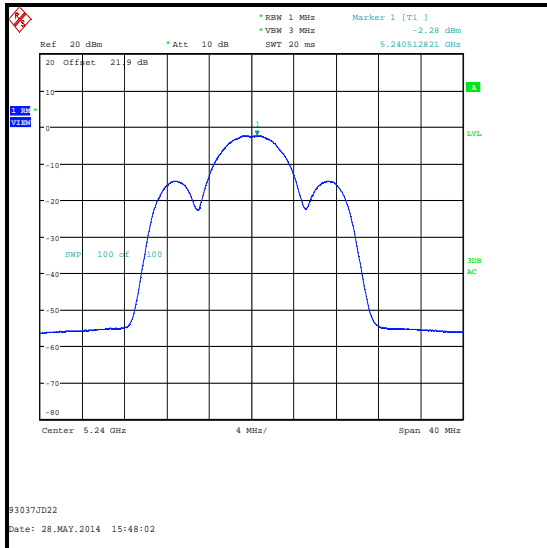
H Port



Bottom Channel



Middle Channel

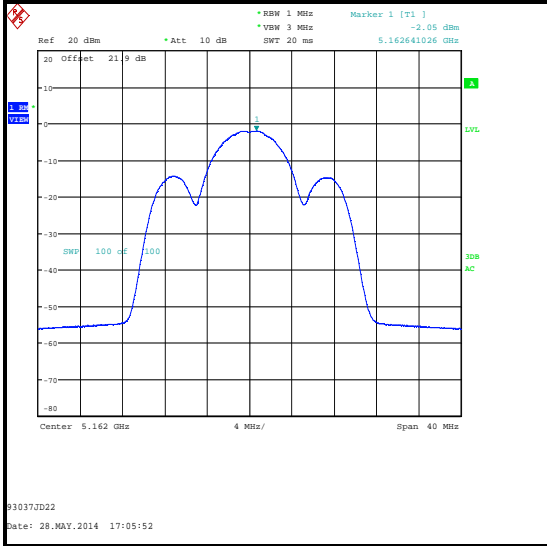


Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 20 MHz Channel / ACQ

V Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

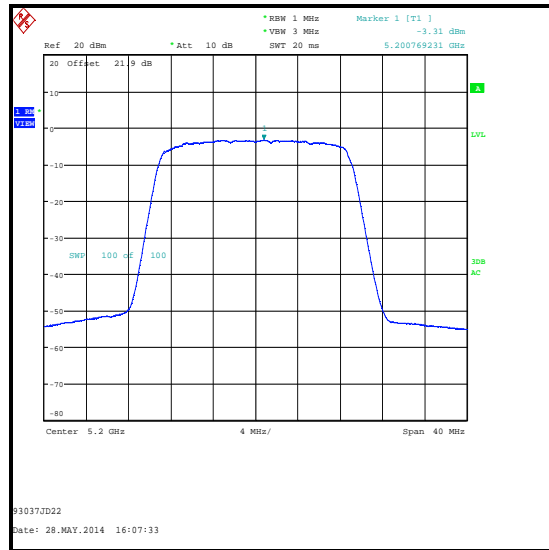
Results: Omnidirectional Antenna / 20 MHz Channel / 256QAM

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -3.1 | -2.7 | 0.1 | 11.5 | 11.4 | Complied |
| Middle | -3.3 | -2.4 | 0.2 | 11.5 | 11.3 | Complied |
| Top | -2.0 | -1.8 | 1.1 | 11.5 | 10.4 | Complied |

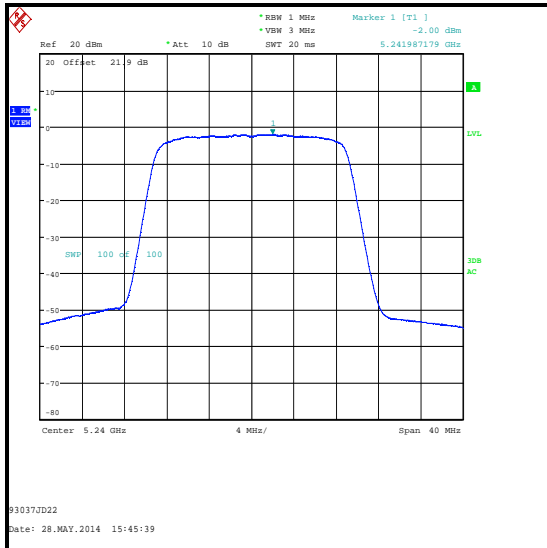
H Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 20 MHz Channel / 256QAM

V Port



Bottom Channel



Middle Channel



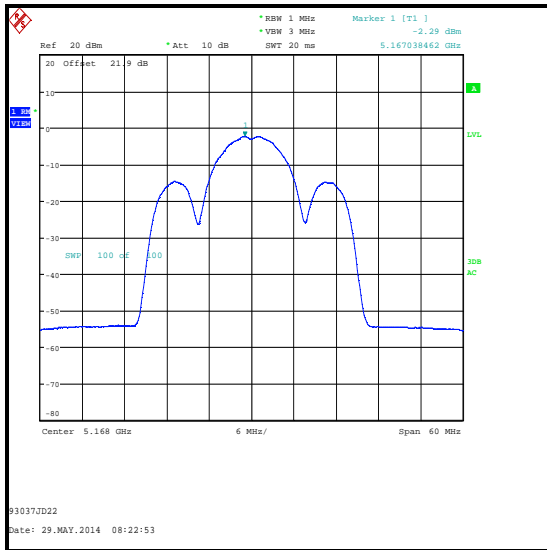
Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

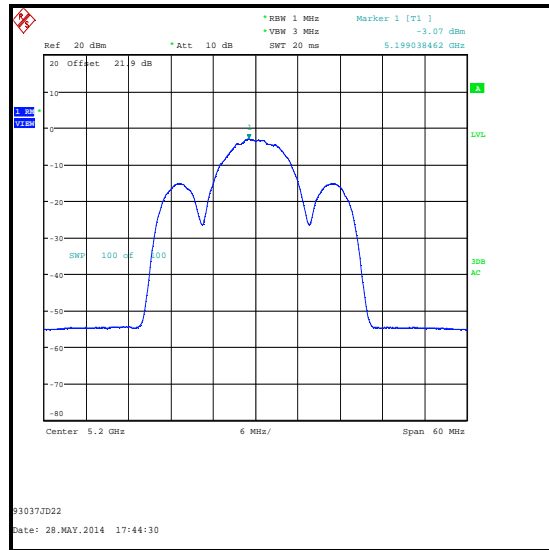
Results: Omnidirectional Antenna / 30 MHz Channel / ACQ

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -2.2 | -2.5 | 0.7 | 11.5 | 10.8 | Complied |
| Middle | -3.0 | -2.6 | 0.2 | 11.5 | 11.3 | Complied |
| Top | -1.6 | -2.2 | 1.1 | 11.5 | 10.4 | Complied |

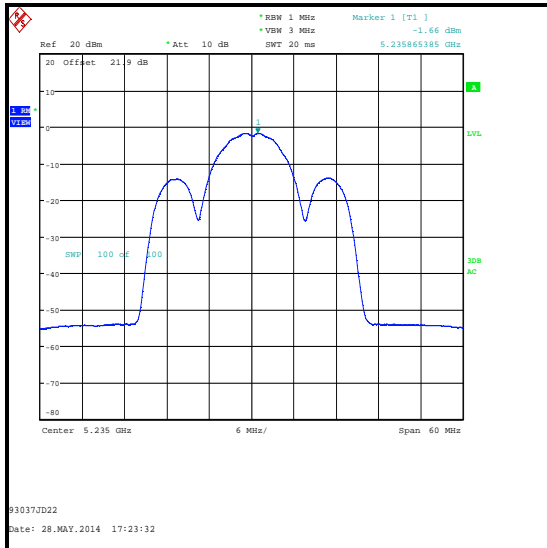
H Port



Bottom Channel



Middle Channel

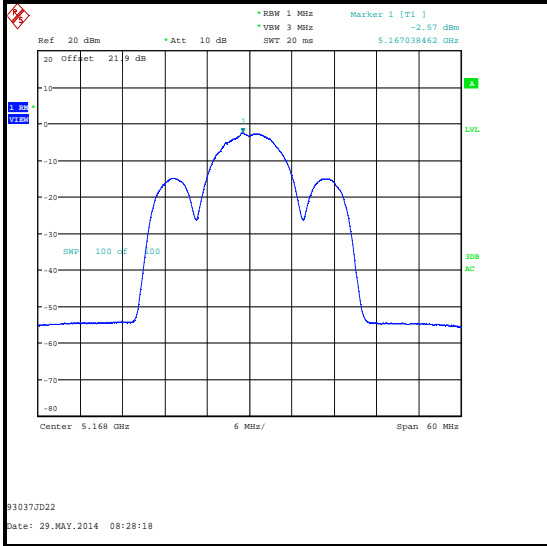


Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 30 MHz Channel / ACQ

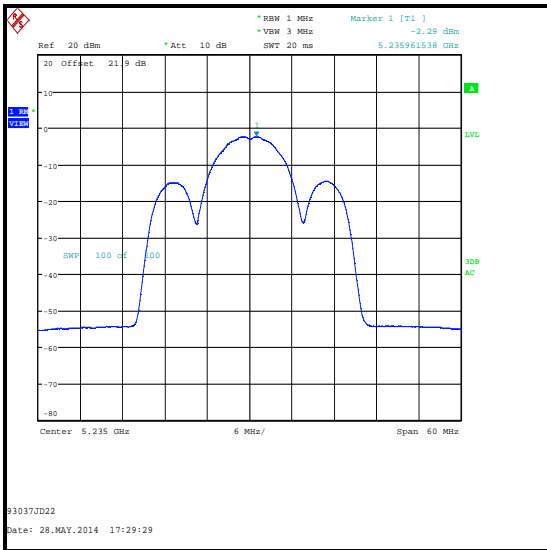
V Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 30 MHz Channel / 256QAM

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -3.0 | -3.1 | 0.0 | 11.5 | 11.5 | Complied |
| Middle | -3.7 | -3.4 | -0.5 | 11.5 | 12.0 | Complied |
| Top | -3.4 | -2.5 | 0.1 | 11.5 | 11.4 | Complied |

H Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 30 MHz Channel / 256QAM

V Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

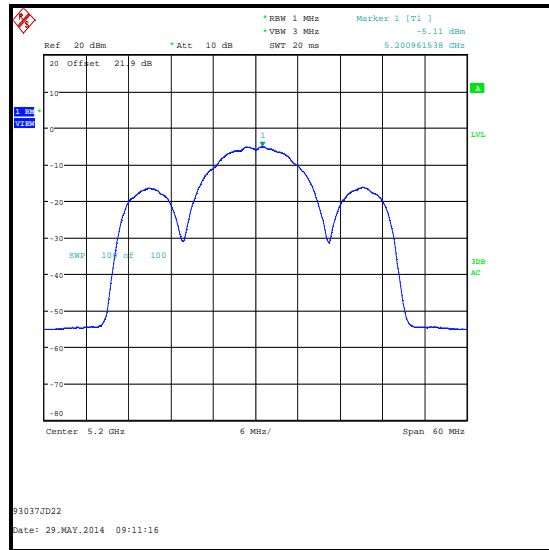
Results: Omnidirectional Antenna / 40 MHz Channel / ACQ

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -5.4 | -4.9 | -2.1 | 11.5 | 13.6 | Complied |
| Middle | -5.1 | -4.9 | -2.0 | 11.5 | 13.5 | Complied |
| Top | -5.4 | -3.7 | -1.5 | 11.5 | 13.0 | Complied |

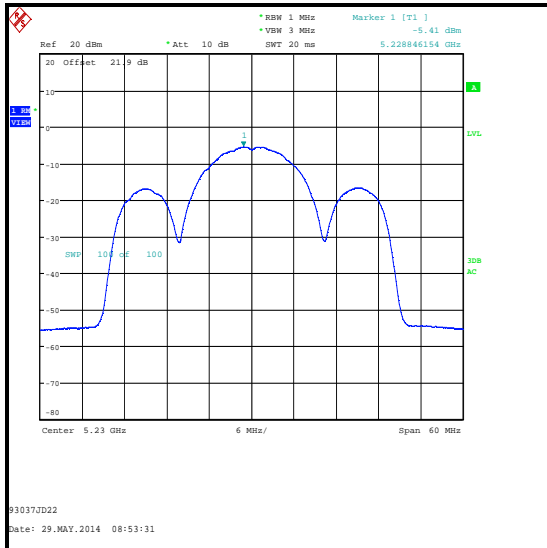
H Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 40 MHz Channel / ACQ

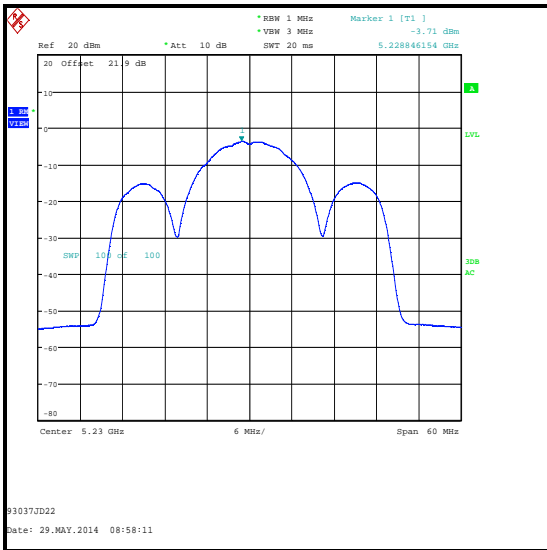
V Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

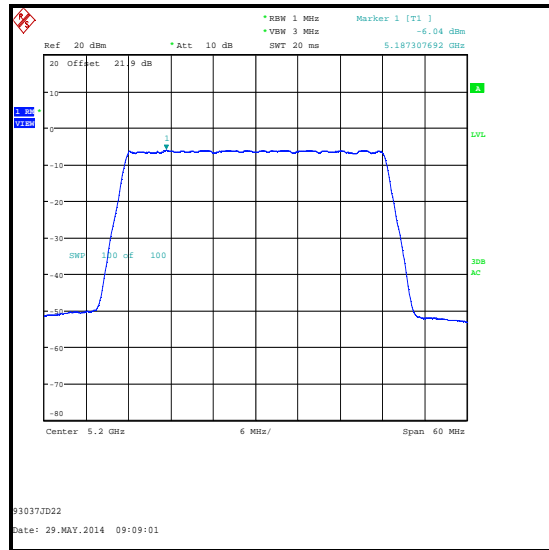
Results: Omnidirectional Antenna / 40 MHz Channel / 256QAM

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -5.8 | -5.4 | -2.6 | 11.5 | 14.1 | Complied |
| Middle | -6.0 | -5.7 | -2.8 | 11.5 | 14.3 | Complied |
| Top | -6.0 | -5.2 | -2.6 | 11.5 | 14.1 | Complied |

H Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 40 MHz Channel / 256QAM

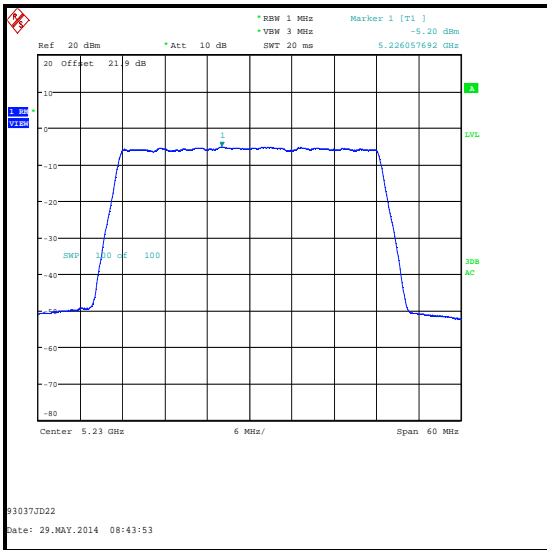
V Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

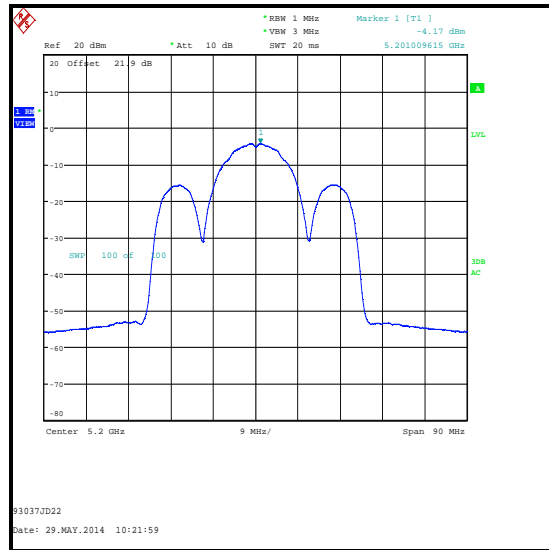
Results: Omnidirectional Antenna / 45 MHz Channel / ACQ

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------------|-----------------------------|----------------------------|----------------------------------|----------------|----------|
| Bottom | -4.4 | -4.1 | -1.3 | 11.5 | 12.8 | Complied |
| Middle | -4.1 | -4.2 | -1.1 | 11.5 | 12.6 | Complied |
| Top | -4.2 | -3.9 | -1.0 | 11.5 | 12.5 | Complied |

H Port



Bottom Channel



Middle Channel

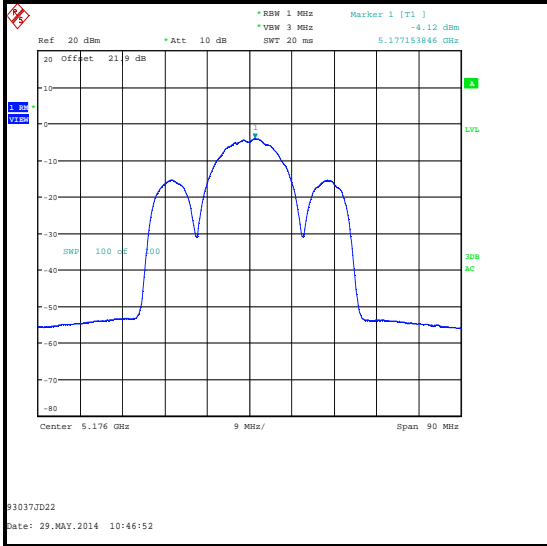


Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 45 MHz Channel / ACQ

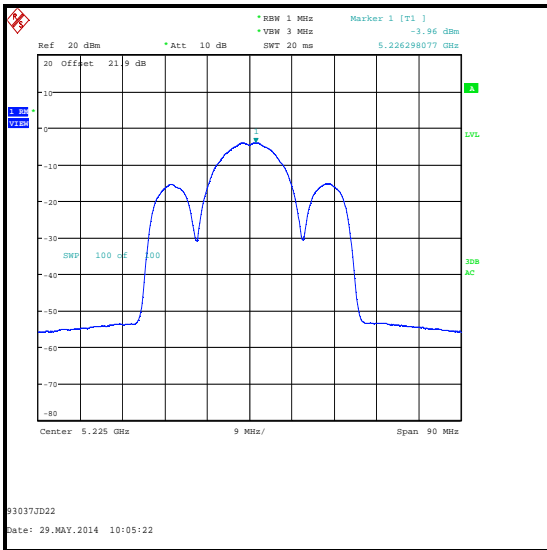
V Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

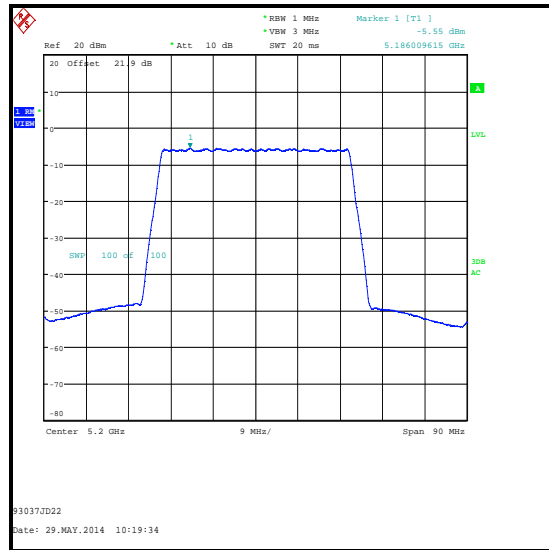
Results: Omnidirectional Antenna / 45 MHz Channel / 256QAM

| Channel | PPSD H Port (dBm/MHz) | PPSD V Port (dBm/MHz) | PPSD Power (dBm/MHz) | PPSD Power Limit (dBm/MHz) | Margin (dB) | Result |
|---------|-----------------------|-----------------------|----------------------|----------------------------|-------------|----------|
| Bottom | -5.4 | -5.4 | -2.4 | 11.5 | 13.9 | Complied |
| Middle | -5.5 | -4.7 | -2.1 | 11.5 | 13.6 | Complied |
| Top | -5.4 | -5.4 | -2.4 | 11.5 | 13.9 | Complied |

H Port



Bottom Channel



Middle Channel



Top Channel

Transmitter Maximum Power Spectral Density (5.15-5.25 GHz band) (continued)

Results: Omnidirectional Antenna / 45 MHz Channel / 256QAM

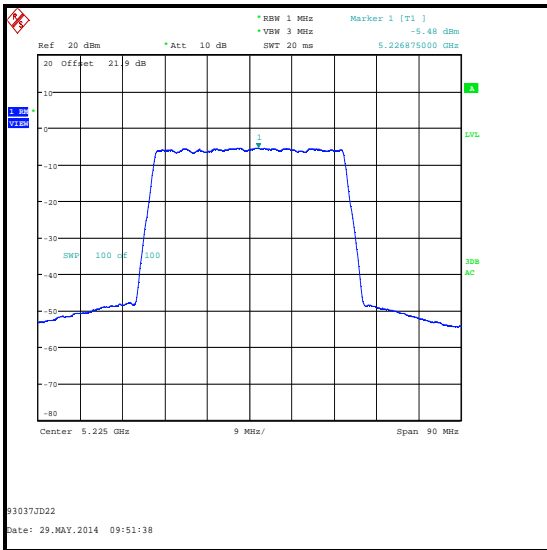
V Port



Bottom Channel



Middle Channel



Top Channel

Test Equipment Used:

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|------------------|-----------------|------------|-------------|-----------------------|------------------------|
| A2143 | Attenuator | AtlanTecRF | AN18-20 | 081120-23 | Calibrated Before Use | - |
| G0607 | Signal Generator | Rohde & Schwarz | SMU 200A | 100943 | 18 Jul 2016 | 36 |
| M1630 | Test Receiver | Rohde & Schwarz | ESU40 | 100233 | 13 Mar 2015 | 12 |
| M1658 | Thermohygrometer | JM Handelpunkt | 30.5015.13 | None stated | 14 Mar 2015 | 12 |

5.2.4. Transmitter Out of Band Radiated Emissions**Test Summary:**

| | | | |
|------------------------------------|---|--------------------|----------------------------|
| Test Engineers: | Sandeep Bharat & David Doyle | Test Dates: | 21 May 2014 to 23 May 2014 |
| Test Sample Serial Numbers: | 0004565000C2 (all antennas apart from plate antenna) & 0004565017A7 (plate antenna) | | |

| | |
|--------------------------|--|
| FCC Reference: | Parts 15.407(b)(1);(b)(6); (b)(7) & 15.209(a) |
| Test Method Used: | FCC KDB 789033 II.G.4 & ANSI C63.10 Sections 6.3 & 6.5 and Notes below |
| Frequency Range: | 30 MHz to 1000 MHz |

Environmental Conditions:

| | |
|-------------------------------|----------|
| Temperature (°C): | 23 to 24 |
| Relative Humidity (%): | 34 to 42 |

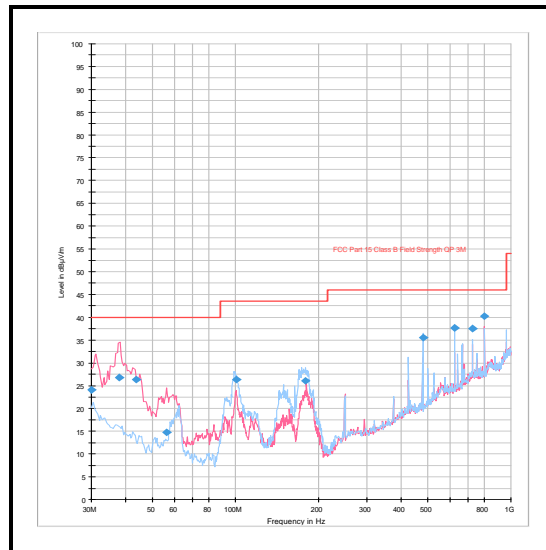
Note(s):

1. Radiated spurious emissions testing was performed with the EUT transmitting at maximum power on a 5 MHz channel with 256QAM modulation. This configuration produced the highest emission levels and was therefore deemed to be worst case. The EUT was transmitting at >99% duty cycle. The highest gain antenna of each antenna type was tested using the appropriate maximum power setting.
2. Pre-scans with the EUT transmitting on the top channel (highest configurable channel) were performed according FCC Part 15.407(b)(1) which states for transmitters operating in the band 5.15 to 5.25 GHz: all emissions outside of the band shall not exceed -27 dBm/MHz. Part 15.407(b)(6) states unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209. Part 15.407(b)(7) states the provisions of 15.205 apply, i.e. restricted bands of operation.
3. The final measured value, for the given emission in the field strength result tables, incorporates the calibrated antenna factor, preamplifier gain, attenuator loss and cable loss.
4. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
5. Measurements below 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. The EUT was placed in the centre of the chamber turntable. The EUT and antenna were mounted onto a pole in a typical end-user configuration and interconnected using the RF cables supplied by the manufacturer. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
6. All emissions shown on the prescan plots were investigated. The highest emission level was compared to the applicable limit to obtain the margin. All other emissions were found to be >20 dB below the applicable limit or ambient and therefore not recorded.

Transmitter Radiated Emissions (continued)

Results: Top Channel / 256QAM / Parabolic Antenna

| Frequency (MHz) | Antenna Polarity | Quasi-Peak Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------------|----------------------|-------------|----------|
| 37.836 | Vertical | 26.8 | 40.0 | 13.2 | Complied |
| 43.536 | Vertical | 26.4 | 40.0 | 13.6 | Complied |
| 479.999 | Horizontal | 35.6 | 46.0 | 10.4 | Complied |
| 624.970 | Horizontal | 37.6 | 46.0 | 8.4 | Complied |
| 724.982 | Horizontal | 37.5 | 46.0 | 8.5 | Complied |
| 800.004 | Vertical | 40.3 | 46.0 | 5.7 | Complied |

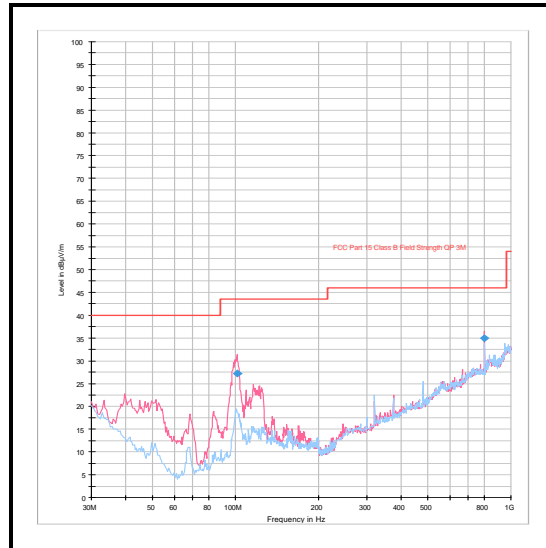


Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 256QAM / Plate Antenna

| Frequency (MHz) | Antenna Polarity | Quasi-Peak Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------------|----------------------|-------------|----------|
| 101.725 | Vertical | 27.2 | 43.5 | 16.3 | Complied |
| 799.997 | Vertical | 34.9 | 46.0 | 11.1 | Complied |

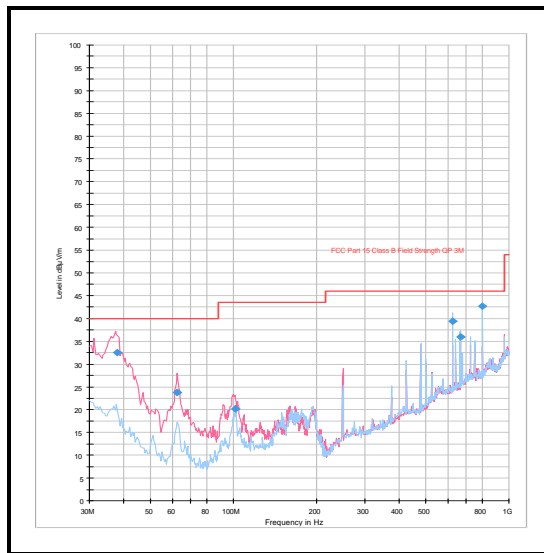


Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Transmitter Radiated Emissions (continued)

Results: Top Channel / 256QAM / Sectorised Antenna

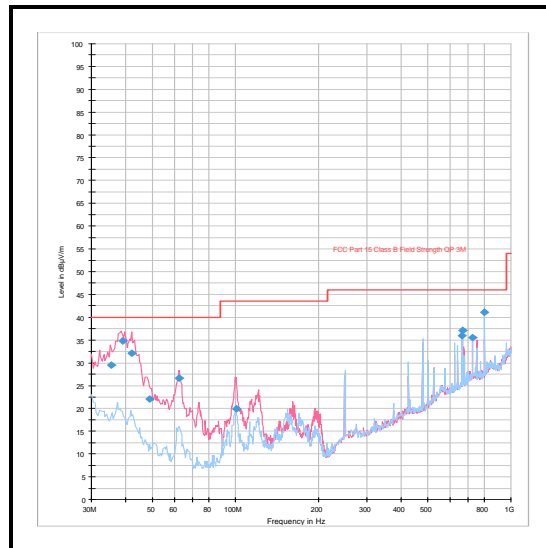
| Frequency (MHz) | Antenna Polarity | Quasi-Peak Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------------|----------------------|-------------|----------|
| 37.883 | Vertical | 32.6 | 40.0 | 7.4 | Complied |
| 62.508 | Vertical | 23.8 | 40.0 | 16.2 | Complied |
| 624.981 | Horizontal | 39.3 | 46.0 | 6.7 | Complied |
| 666.667 | Horizontal | 36.0 | 46.0 | 10.0 | Complied |
| 799.997 | Horizontal | 42.7 | 46.0 | 3.3 | Complied |



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Transmitter Radiated Emissions (continued)**Results: Top Channel / 256QAM / Omnidirectional Antenna**

| Frequency (MHz) | Antenna Polarity | Quasi-Peak Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------------|----------------------|-------------|----------|
| 35.376 | Vertical | 29.5 | 40.0 | 10.5 | Complied |
| 38.830 | Vertical | 34.9 | 40.0 | 5.1 | Complied |
| 664.062 | Vertical | 35.9 | 46.0 | 10.1 | Complied |
| 666.655 | Horizontal | 37.1 | 46.0 | 8.9 | Complied |
| 724.977 | Vertical | 35.6 | 46.0 | 10.4 | Complied |
| 799.997 | Horizontal | 41.1 | 46.0 | 4.9 | Complied |



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Test Equipment Used:

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|------------------|-------------------|------------|-------------|----------------------|------------------------|
| M1622 | Thermohygrometer | JM Handlungspunkt | 30.5015.06 | None stated | 31 Dec 2014 | 12 |
| K0001 | 5m RSE Chamber | Rainford EMC | N/A | N/A | 26 Nov 2014 | 12 |
| G0543 | Amplifier | Sonoma | 310N | 230801 | 19 Aug 2014 | 3 |
| M1273 | Test Receiver | Rohde & Schwarz | ESIB 26 | 100275 | 15 Feb 2015 | 12 |
| A490 | Antenna | Chase | CBL6111A | 1590 | 29 Apr 2015 | 12 |
| A1834 | Attenuator | Hewlett Packard | 8491B | 10444 | 15 Nov 2014 | 12 |
| A2132 | Low Pass Filter | AtlanTecRF | AFL-03000 | 300-192 | 25 Apr 2015 | 12 |

Transmitter Out of Band Radiated Emissions (continued)**Test Summary:**

| | | | |
|------------------------------------|--|--------------------|-------------------------------|
| Test Engineer: | Ian Watch | Test Dates: | 23 May 2014 to 24 May 2014 |
| Test Sample Serial Numbers: | 0004565000C2 (all antennas apart from plate antenna) & 0004565017A7 (plate antenna) | | |

| | |
|--------------------------|---|
| FCC Reference: | Parts 15.407(b)(1), 15.407(b)(7), 15.205 & 15.209(a) |
| Test Method Used: | FCC KDB 789033 II.G.5; II.G.6 & ANSI C63.10 Sections 6.3 & 6.6 and Notes below |
| Frequency Range: | 1 GHz to 40 GHz |

Environmental Conditions:

| | |
|-------------------------------|----------|
| Temperature (°C): | 21 to 25 |
| Relative Humidity (%): | 40 to 43 |

Note(s):

- Radiated spurious emissions testing was performed with the EUT transmitting at maximum power on a 5 MHz channel with 256QAM modulation. This configuration produced the highest emission levels and was therefore deemed to be worst case. The EUT was transmitting at >99% duty cycle. The highest gain antenna of each antenna type was tested using the appropriate maximum power setting.
- Pre-scans with the EUT transmitting on the top channel (highest configurable channel) were performed according to FCC Part 15.407(b)(1) which states all emissions outside of the 5.15-5.35 GHz band will not exceed -27 dBm/MHz E.I.R.P. Part 15.407(b)(7) states the provisions of 15.205 apply i.e. restricted bands of operation.
- Appropriate RF filters and attenuators were used during pre-scans and final measurements. Insertion losses were entered on the spectrum analyser as RF levels offsets.
- It was not always possible to maintain a constant reference level on the spectrum analyser plots due to the test setup. The reference level was set as high as the spectrum analyser allowed and was as close to the in-band measurements as possible.
- Result plots from 4.5 GHz to 5.46 GHz for a 5 MHz channel with 256QAM are contained within the Transmitter Band Edge Radiated Emissions section of this report. Tests were performed as a field strength measurements and any emissions in non-restricted bands converted to a E.I.R.P. value in dBm in accordance with FCC KDB 789033 II(G)2d(iii) using a conversion factor of -95.2. A peak detector was used (worst case) unless otherwise stated. The measured values incorporates the calibrated antenna factor and cable loss.
- Where spurious emissions occurred in a restricted band, the maximum field strength level was compared to peak (74 dB μ V/m) and average (54 dB μ V/m) limits. Where spurious emissions occurred in a non-restricted band, the maximum field strength was converted to E.I.R.P. and compared to the -27 dBm/MHz E.I.R.P. limit. The -27 dBm/MHz E.I.R.P. limit was converted to a field strength limit of 68.2 dB μ V/m at 3 metres. This limit line is marked on the plots as "15407".
- Pre-scans above 1 GHz were performed in a fully anechoic chamber (Asset Number K0002) at a distance of 3 metres. The EUT was placed in the centre of the chamber turntable. Final measurements above 1 GHz were performed in a semi-anechoic chamber (Asset Number K0001) at a distance of 3 metres. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions (continued)**Results: Bottom Channel / 5 MHz Channel / 256QAM / Parabolic Antenna**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 4994.712 | Horizontal | 58.6 | 74.0 | 15.4 | Complied |
| 5116.987 | Horizontal | 63.6 | 74.0 | 10.4 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 4996.955 | Horizontal | 47.7 | 54.0 | 6.3 | Complied |
| 5118.109 | Horizontal | 52.3 | 54.0 | 1.7 | Complied |

Results: Middle Channel / 5 MHz Channel / 256QAM / Parabolic Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5033.413 | Horizontal | 59.8 | 74.0 | 14.2 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5033.413 | Horizontal | 49.9 | 54.0 | 4.1 | Complied |

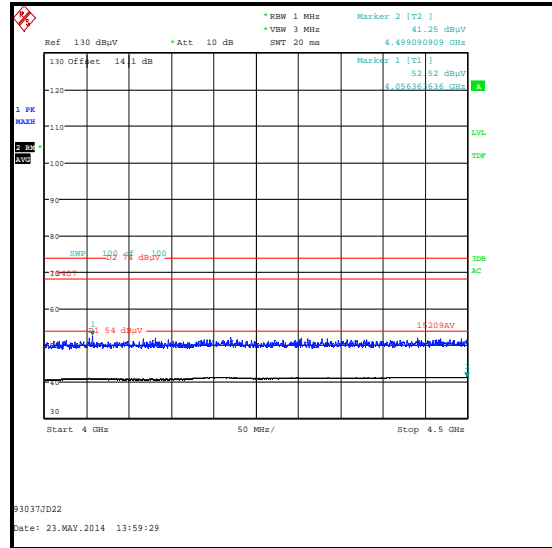
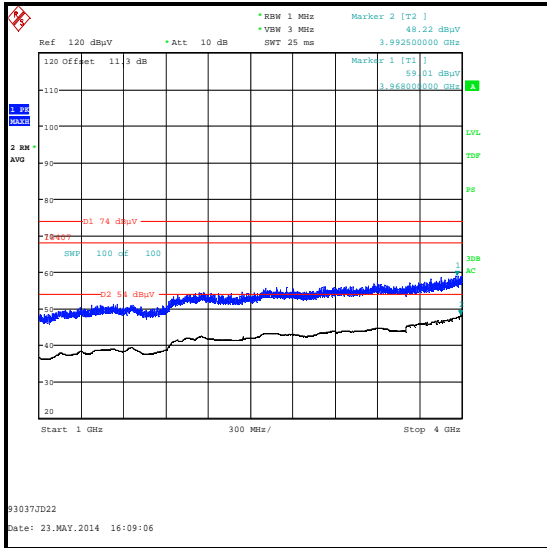
Results: Top Channel / 5 MHz Channel / 256QAM / Parabolic Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5407.083 | Horizontal | 62.1 | 74.0 | 11.9 | Complied |

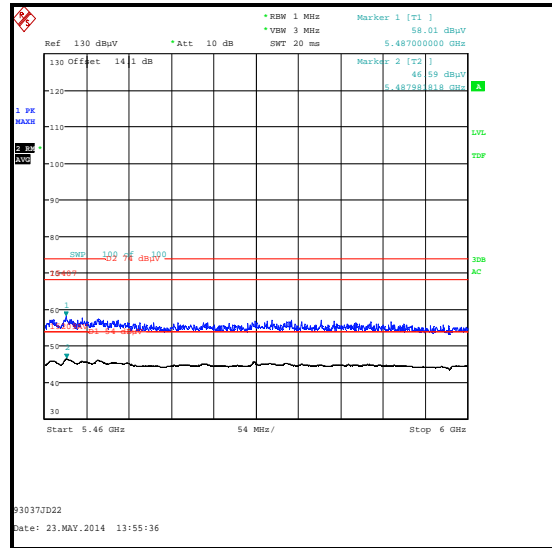
| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5407.917 | Horizontal | 52.4 | 54.0 | 1.6 | Complied |

Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Parabolic Antenna

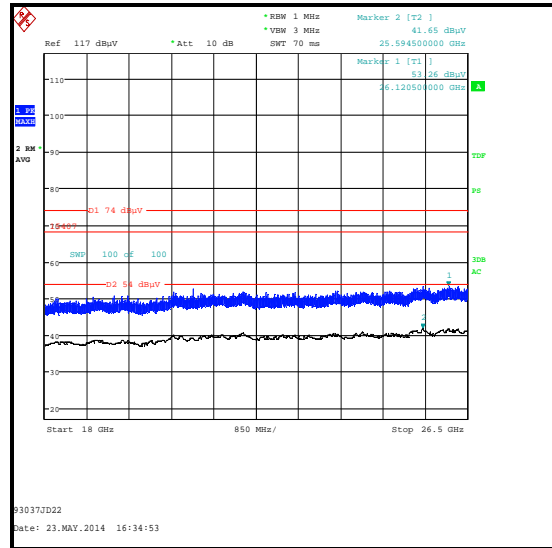
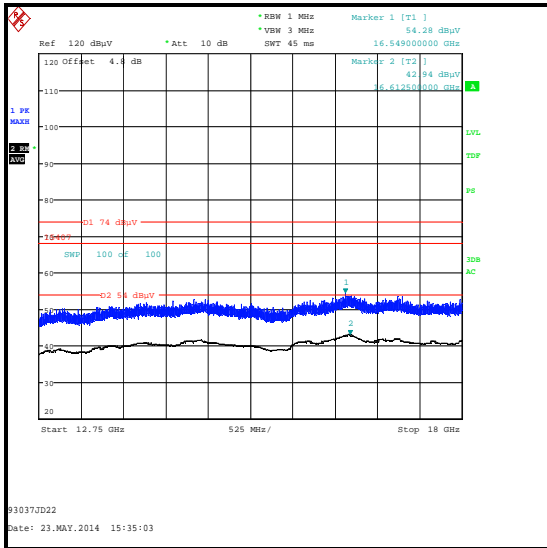
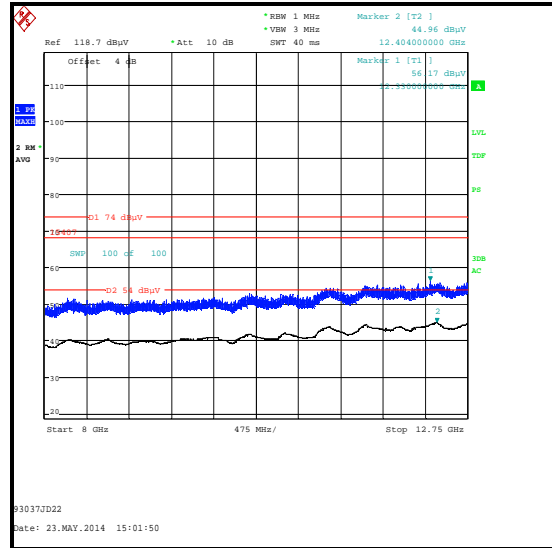
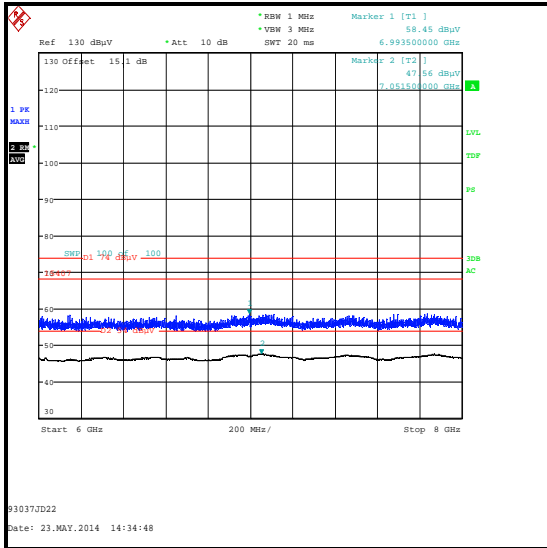


Result plots from 4.5 GHz to 5.46 GHz are contained within the Transmitter Band Edge Radiated Emissions section of this report



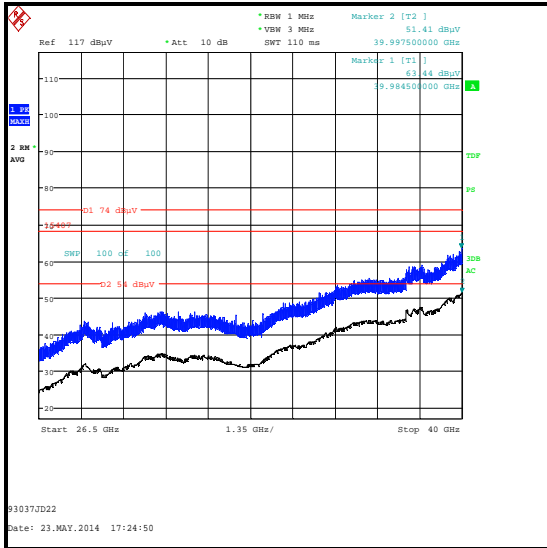
Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Parabolic Antenna



Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Parabolic Antenna



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Transmitter Out of Band Radiated Emissions (continued)**Results: Bottom Channel / 5 MHz Channel / 256QAM / Plate Antenna**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5116.987 | Horizontal | 58.5 | 74.0 | 15.5 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5116.987 | Horizontal | 47.7 | 54.0 | 6.3 | Complied |

Results: Middle Channel / 5 MHz Channel / 256QAM / Plate Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5041.966 | Horizontal | 60.7 | 74.0 | 13.3 | Complied |
| 5359.821 | Horizontal | 61.2 | 74.0 | 12.8 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5041.966 | Horizontal | 51.0 | 54.0 | 3.0 | Complied |
| 5359.917 | Horizontal | 51.2 | 54.0 | 2.8 | Complied |

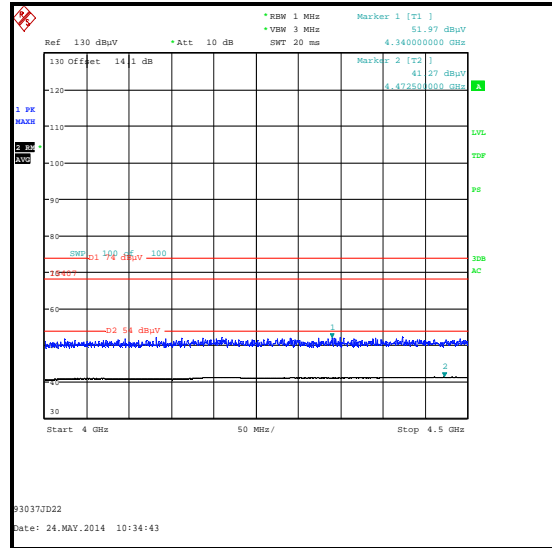
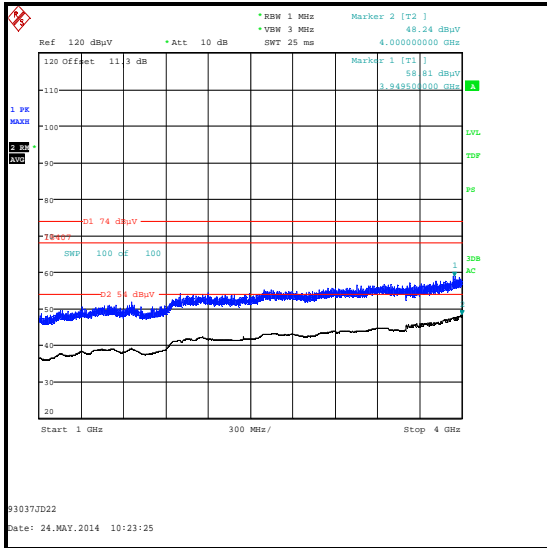
Results: Top Channel / 5 MHz Channel / 256QAM / Plate Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5407.083 | Horizontal | 61.2 | 74.0 | 12.8 | Complied |

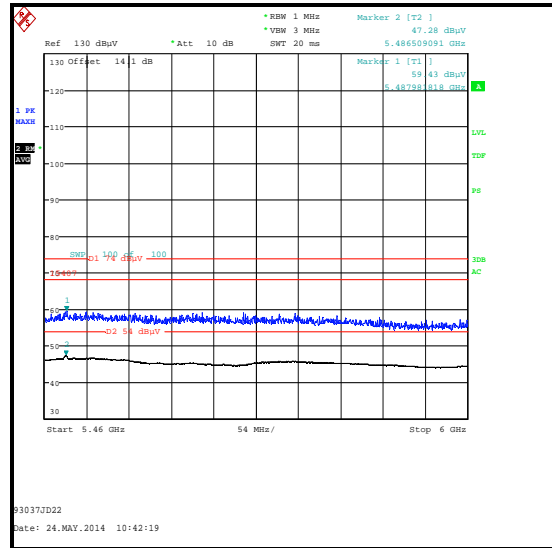
| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5407.083 | Horizontal | 51.2 | 54.0 | 2.8 | Complied |

Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Plate Antenna

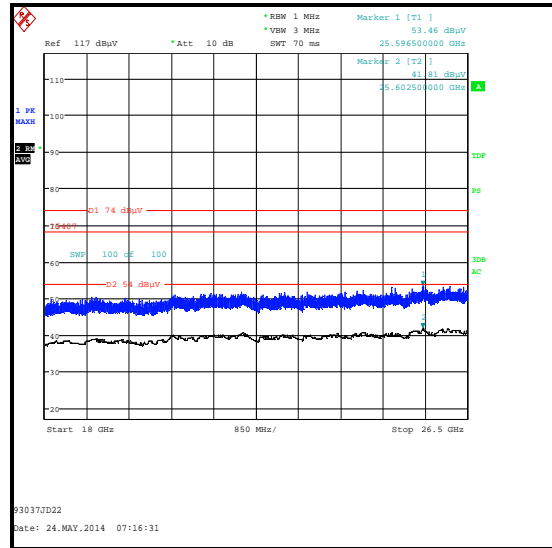
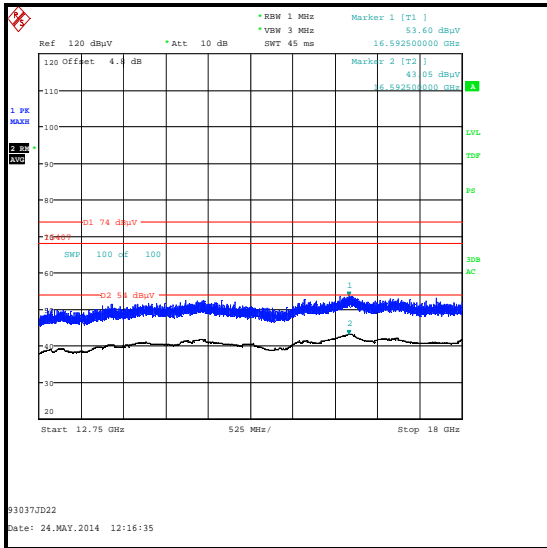
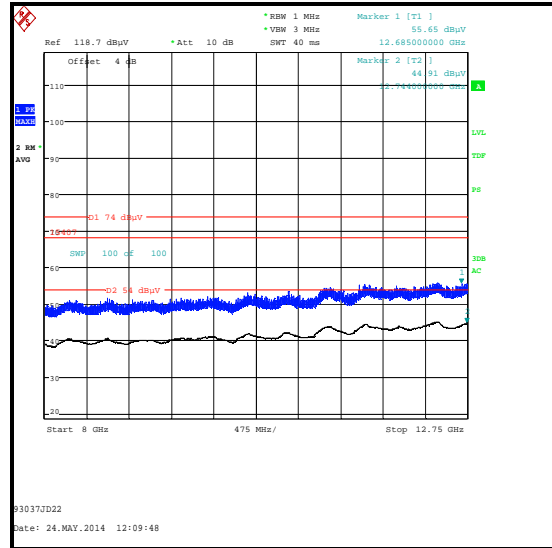
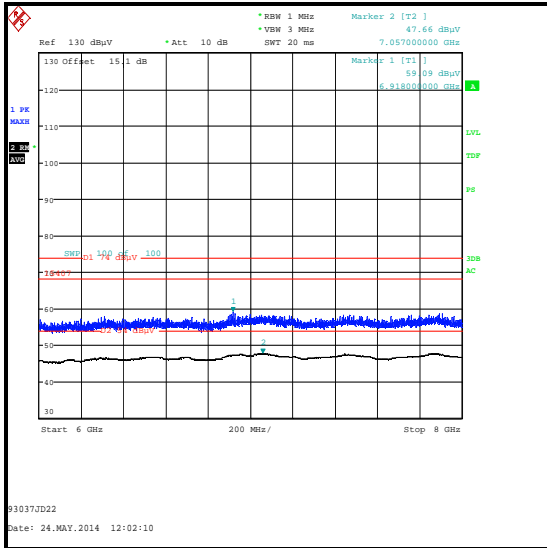


Result plots from 4.5 GHz to 5.46 GHz are contained within the Transmitter Band Edge Radiated Emissions section of this report



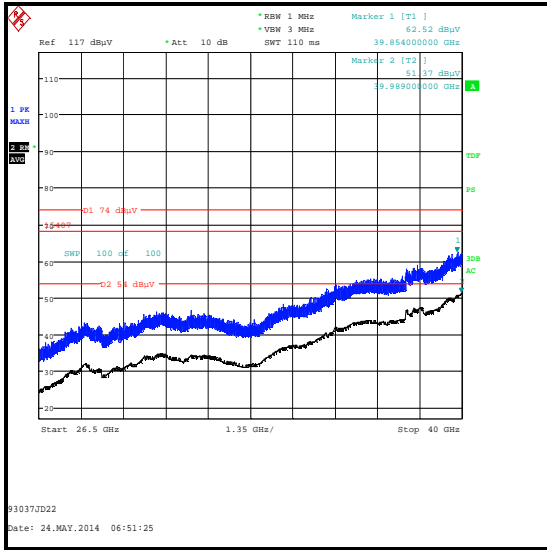
Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Plate Antenna



Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Plate Antenna



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Transmitter Out of Band Radiated Emissions (continued)**Results: Bottom Channel / 5 MHz Channel / 256QAM / Sectorised Antenna**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 4996.955 | Horizontal | 56.7 | 74.0 | 17.3 | Complied |
| 5116.987 | Horizontal | 62.5 | 74.0 | 11.5 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 4996.955 | Horizontal | 50.0 | 54.0 | 4.0 | Complied |
| 5116.987 | Horizontal | 52.3 | 54.0 | 1.7 | Complied |

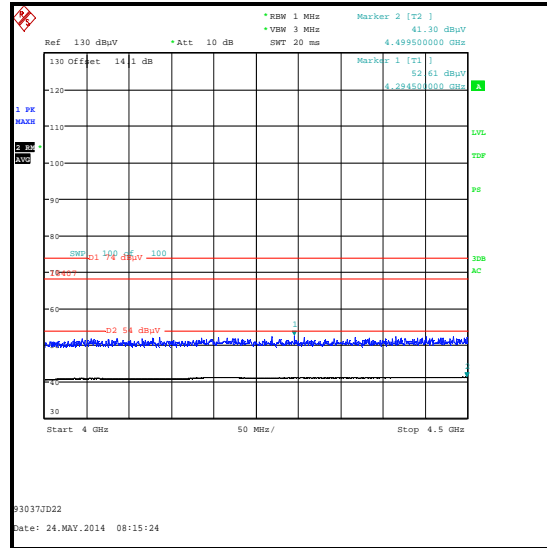
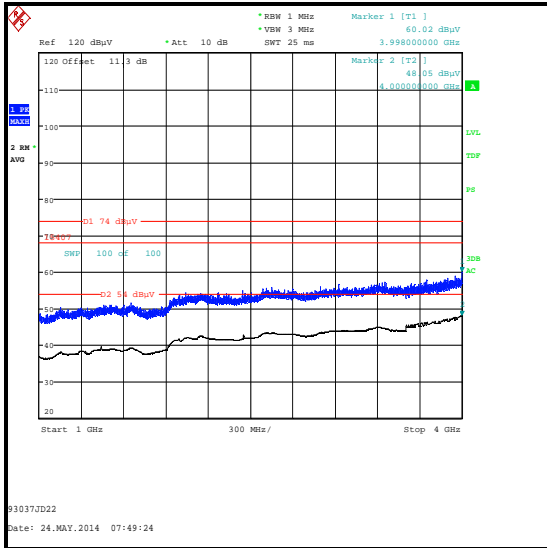
Results: Middle Channel / 5 MHz Channel / 256QAM / Sectorised Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5041.966 | Horizontal | 59.5 | 74.0 | 14.5 | Complied |

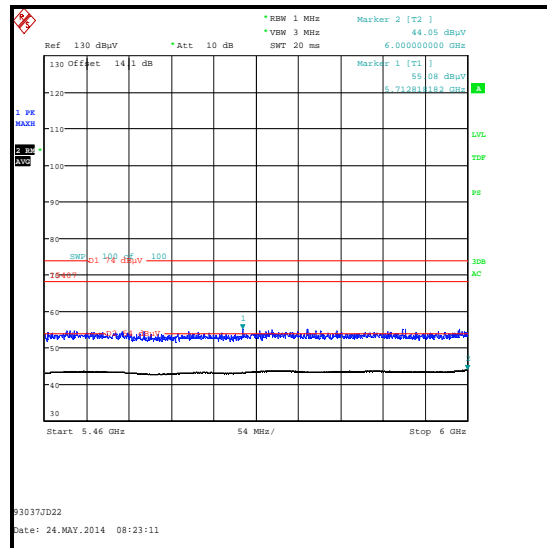
| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5041.966 | Horizontal | 49.7 | 54.0 | 4.3 | Complied |

Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Sectorised Antenna

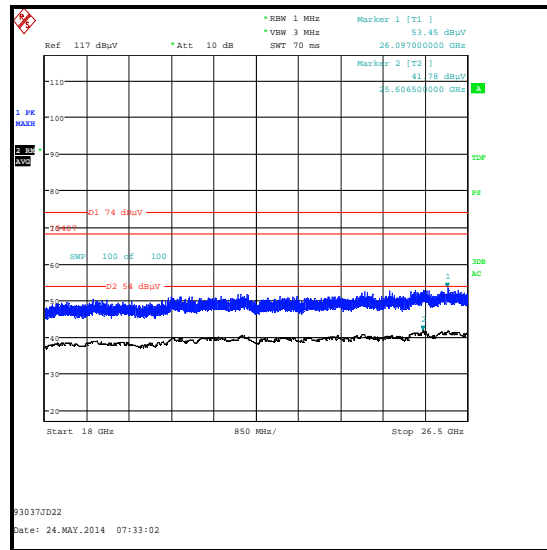
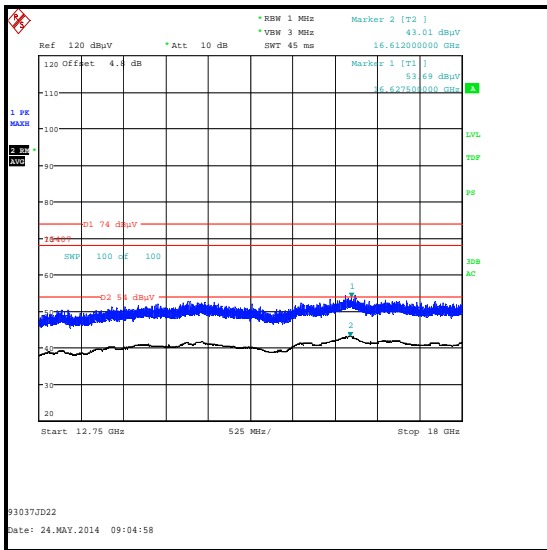
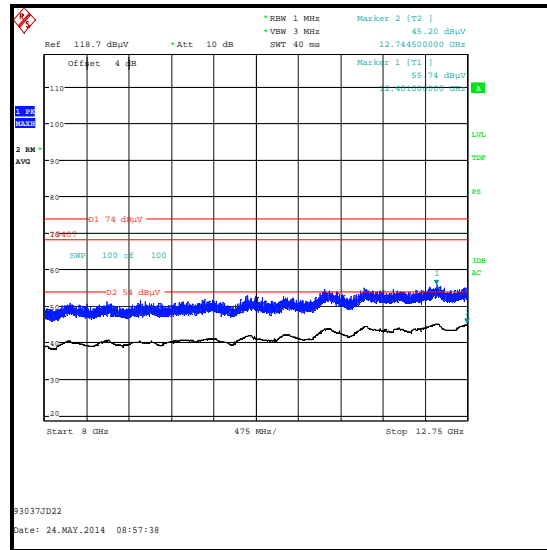
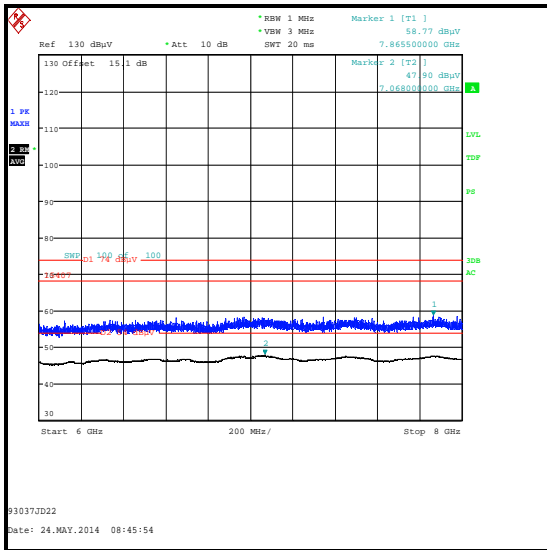


Result plots from 4.5 GHz to 5.46 GHz are contained within the Transmitter Band Edge Radiated Emissions section of this report



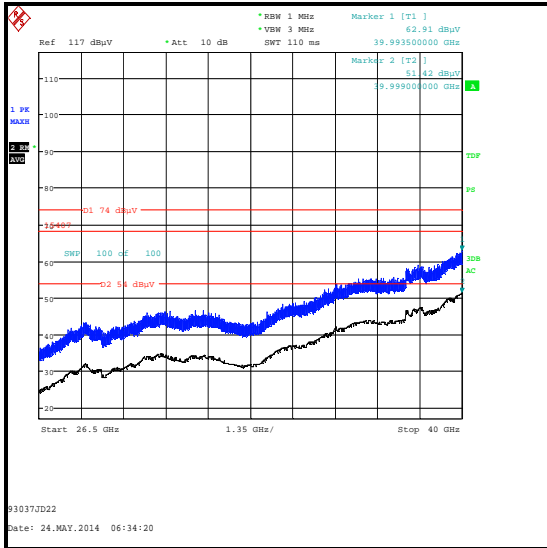
Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Sectorised Antenna



Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Sectorised Antenna



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Transmitter Out of Band Radiated Emissions (continued)**Results: Bottom Channel / 5 MHz Channel / 256QAM / Omnidirectional Antenna**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5116.987 | Horizontal | 56.2 | 74.0 | 17.8 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5116.987 | Horizontal | 46.7 | 54.0 | 7.3 | Complied |

Results: Middle Channel / 5 MHz Channel / 256QAM / Omnidirectional Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5040.020 | Horizontal | 60.9 | 74.0 | 13.1 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5039.587 | Horizontal | 47.2 | 54.0 | 6.8 | Complied |

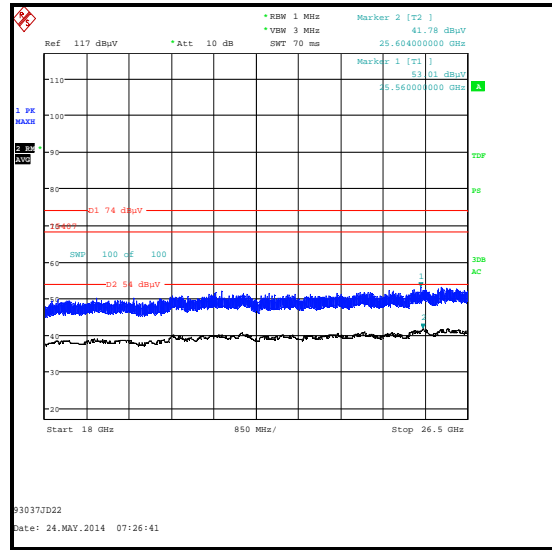
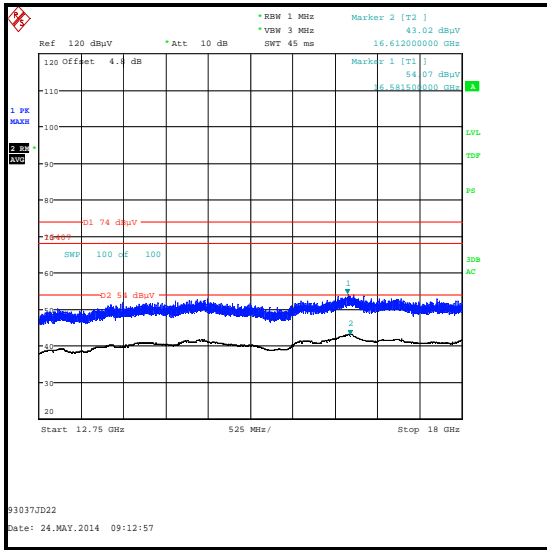
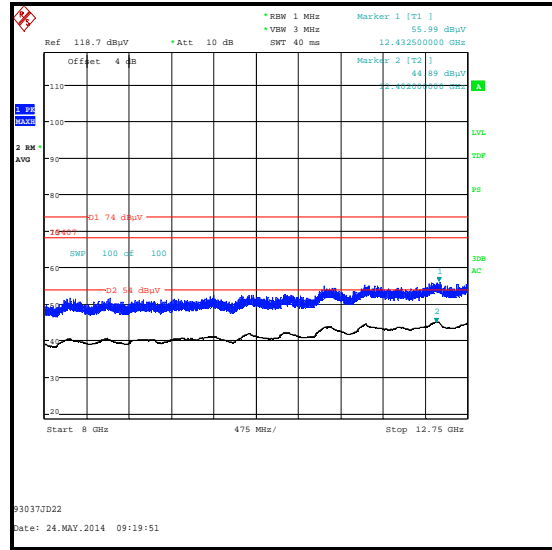
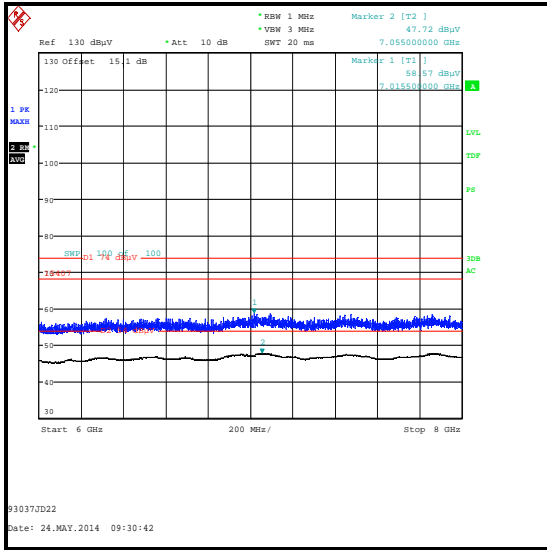
Results: Top Channel / 5 MHz Channel / 256QAM / Omnidirectional Antenna

| Frequency (MHz) | Antenna Polarity | Peak Level (dB μ V/m) | Peak Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|---------------------------|---------------------------|-------------|----------|
| 5408.750 | Horizontal | 54.5 | 74.0 | 19.5 | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB μ V/m) | Average Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|------------------------------|------------------------------|-------------|----------|
| 5407.500 | Horizontal | 43.8 | 54.0 | 10.2 | Complied |

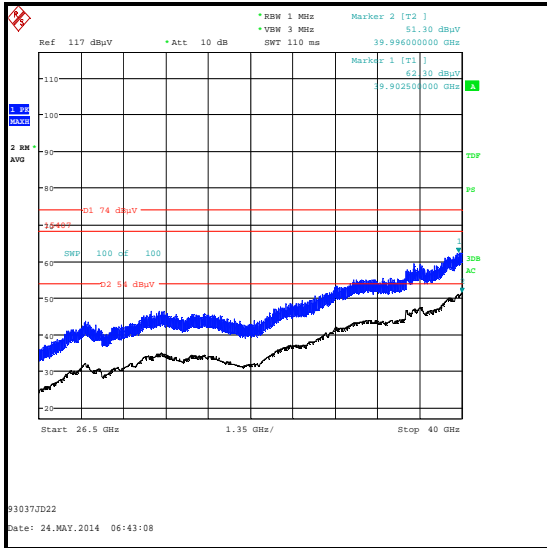
Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Omnidirectional Antenna



Transmitter Out of Band Radiated Emissions (continued)

Results: Top Channel / 5 MHz Channel / 256QAM / Omnidirectional Antenna



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Transmitter Radiated Emissions (continued)**Test Equipment Used:**

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|------------------|-----------------|------------|-------------|-----------------------|------------------------|
| K0001 | 5m RSE Chamber | Rainford EMC | N/A | N/A | 26 Nov 2014 | 12 |
| K0002 | 3m RSE Chamber | Rainford EMC | N/A | N/A | 14 Nov 2014 | 12 |
| A1534 | Pre Amplifier | Hewlett Packard | 8449B | 3008A00405 | 18 May 2015 | 12 |
| A1785 | Pre Amplifier | Farran | FLNA-28-30 | FTL 6483 | Calibrated Before Use | - |
| G0607 | Signal Generator | Rohde & Schwarz | SMU 200A | 100943 | 18 Jul 2016 | 36 |
| M1630 | Test Receiver | Rohde & Schwarz | ESU | 100233 | 13 Mar 2015 | 12 |
| A2134 | Low Pass Filter | AtlanTec RF | AFL-05000 | 300195 | 25 Apr 2015 | 12 |
| A1980 | High Pass Filter | AtlanTec RF | AFH-06000 | 09110900303 | 12 Apr 2015 | 12 |
| A1393 | Attenuator | Huber & Suhner | 6820.17.B | 757456 | 02 May 2015 | 12 |
| A1867 | Attenuator | Hewlett Packard | 8491A | 16823 | Calibrated Before Use | - |
| A1396 | Attenuator | Huber & Suhner | 6806.17.B | | 02 May 2015 | 12 |
| A1818 | Antenna | EMCO | 3115 | 00075692 | 14 Nov 2014 | 12 |
| A253 | Antenna | Flann Microwave | 12240-20 | 128 | 14 Nov 2014 | 12 |
| A254 | Antenna | Flann Microwave | 14240-20 | 139 | 14 Nov 2014 | 12 |
| A255 | Antenna | Flann Microwave | 16240-20 | 519 | 14 Nov 2014 | 12 |
| A256 | Antenna | Flann Microwave | 18240-20 | 400 | 14 Nov 2014 | 12 |
| A436 | Antenna | Flann Microwave | 20249-20 | 330 | 14 Nov 2014 | 12 |
| A203 | Antenna | Flann Microwave | 22240-20 | 343 | 19 May 2016 | 36 |
| M1656 | Thermohygrometer | JM Handelpunkt | 30.5015.13 | Not stated | 14 Mar 2015 | 12 |

5.2.5. Transmitter Band Edge Radiated Emissions**Test Summary:**

| | | | |
|-----------------------------------|---|--------------------|-------------------------------|
| Test Engineer: | Ian Watch | Test Dates: | 19 May 2014 to 22 May 2014 |
| Test Sample Serial Number: | 0004565000C2 (omnidirectional and plate antenna) & 0004565017A7 (parabolic and sectorised antenna) | | |

| | |
|--------------------------|---|
| FCC Reference: | Parts 15.407(b)(1), 15.407(b)(7), 15.205 & 15.209(a) |
| Test Method Used: | FCC KDB 789033 II.G.5; II.G.6 & ANSI C63.10 Sections 6.3 & 6.6 and Notes below |

Environmental Conditions:

| | |
|-------------------------------|----------|
| Temperature (°C): | 23 to 25 |
| Relative Humidity (%): | 38 to 42 |

Note(s):

- Band edge tests were performed as radiated measurements in the operating mode that produced the highest emission levels at band edges. All modes were initially tested and the mode that produced the highest levels was 256QAM. The EUT was transmitting with >99% duty cycle and at maximum power for bottom or top channel according to the antenna being used (refer to Section 4.2). All antennas types were tested. The EUT was connected to each antenna using the supplied RF cables.
- Lower band edge measurements were performed with the EUT transmitting on the bottom channel at maximum power. The lower band edge plots show a lower band edge frequency line F1 at 5.15 GHz. A restricted band of operation exists from 4.5 GHz to the lower band edge at 5.15 GHz. Restricted band 74 dB μ V/m peak limit and 54 dB μ V/m average limits apply. A marker was placed at 5.15 GHz, the peak and average levels were recorded.
- Upper band edge measurements were performed with the EUT transmitting on the top channel. The upper band edge plots show frequency lines F1 at 5.25 GHz and F2 at 5.35 GHz. Out-of-band spurious emissions requirements for transmitters operating in the 5.15-5.25 GHz band start at 5.35 GHz (Rule Part 15.407(b)(1)). A restricted band of operation exists from 5.35 GHz to 5.46 GHz. Restricted band 74 dB μ V/m peak limit and 54 dB μ V/m average limits apply. A marker was placed at 5.35 GHz, the peak and average levels were recorded.
- For all channel bandwidths apart from 5 MHz channel widths, markers were placed on any high level emissions (when present) in the restricted bands adjacent to the band edges and these emissions were also recorded in this section. Spurious emissions in the restricted bands adjacent to the band edges for 5 MHz channel widths were found to be worst case and are recorded in the Transmitter Out of Band Radiated Emissions section of this report.
- A software bug in the spectrum analyser screen copying application caused some average plots not to show the correct amount of trace sweeps. All average measurements were made with ≥ 100 sweeps.

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 5 MHz Channel / 256QAM / Peak**

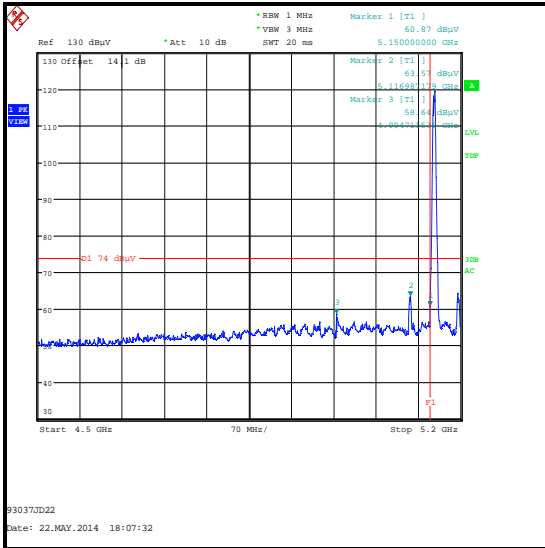
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 60.9 | 74.0 | 13.1 | Complied |
| 5350 | 56.7 | 74.0 | 17.3 | Complied |

Results: Parabolic Antenna / 5 MHz Channel / 256QAM / Average

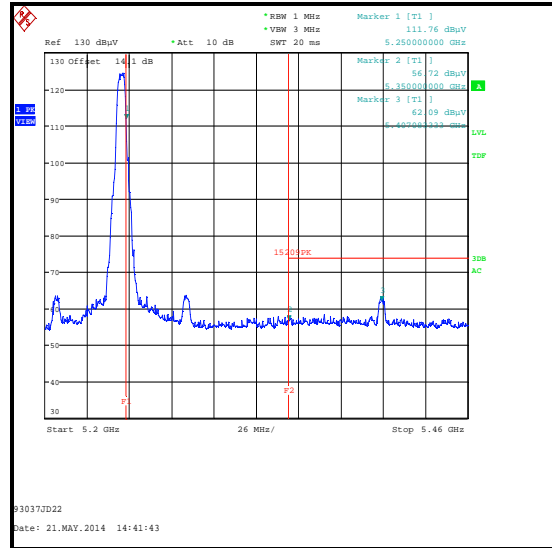
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 46.3 | 54.0 | 7.7 | Complied |
| 5350 | 46.2 | 54.0 | 7.8 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

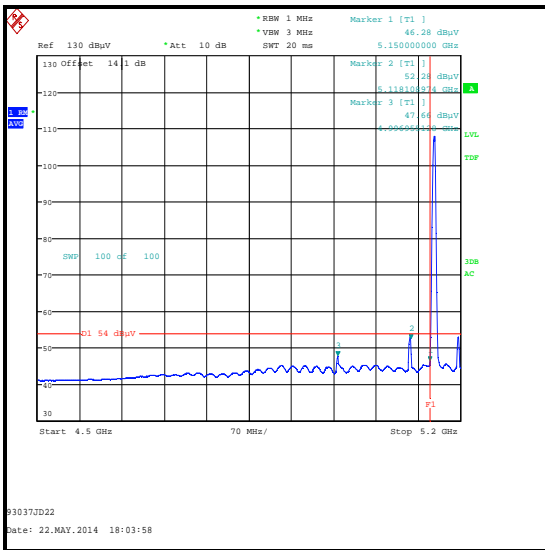
Results: Parabolic Antenna / 5 MHz Channel / 256QAM



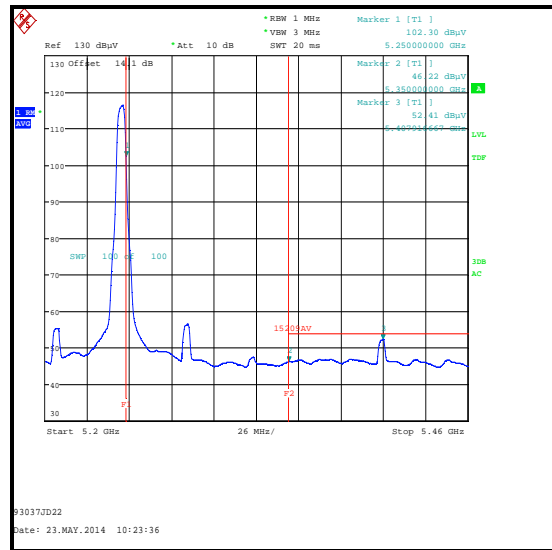
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 10 MHz Channel / 256QAM / Peak**

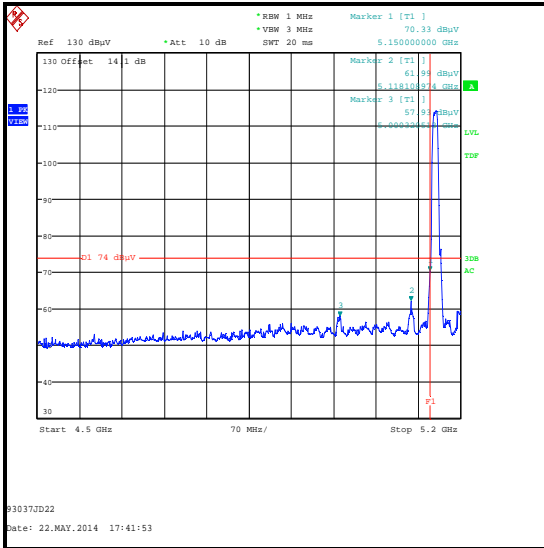
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5000.321 | 57.9 | 74.0 | 16.1 | Complied |
| 5118.109 | 62.0 | 74.0 | 12.0 | Complied |
| 5150 | 70.3 | 74.0 | 3.7 | Complied |
| 5350 | 58.4 | 74.0 | 15.6 | Complied |
| 5407.250 | 62.0 | 74.0 | 12.0 | Complied |

Results: Parabolic Antenna / 10 MHz Channel / 256QAM / Average

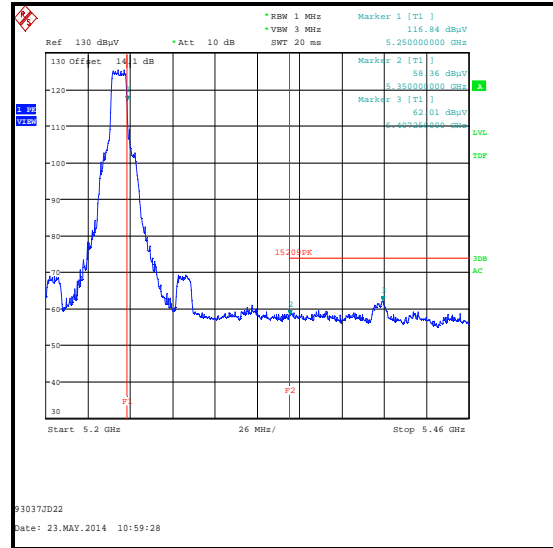
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5000.321 | 47.4 | 54.0 | 6.6 | Complied |
| 5118.109 | 48.9 | 54.0 | 5.1 | Complied |
| 5150 | 51.3 | 54.0 | 2.7 | Complied |
| 5350 | 48.1 | 54.0 | 5.9 | Complied |
| 5408.083 | 51.8 | 54.0 | 2.2 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

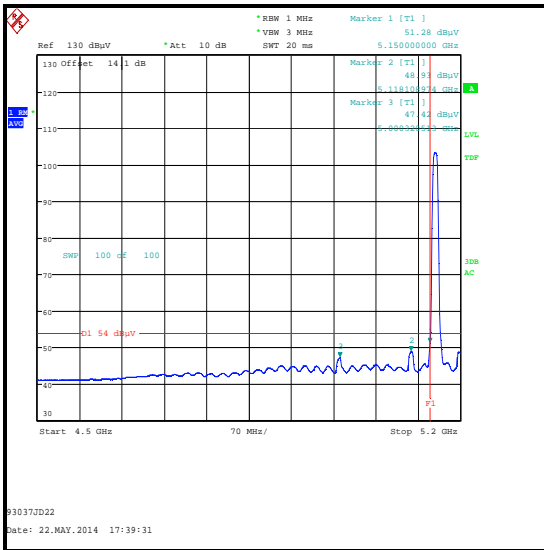
Results: Parabolic Antenna / 10 MHz Channel / 256QAM



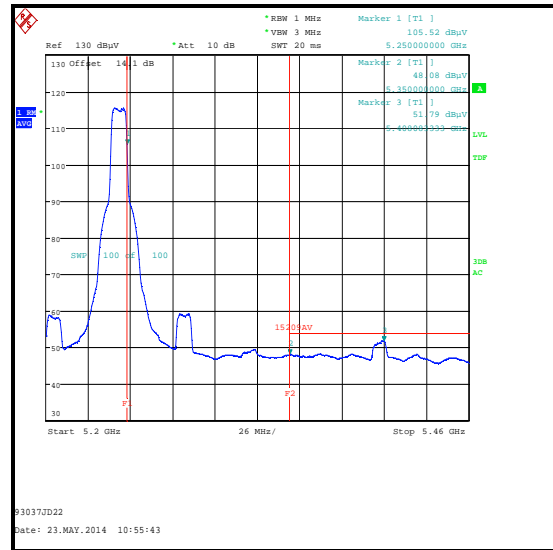
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 15 MHz Channel / 256QAM / Peak**

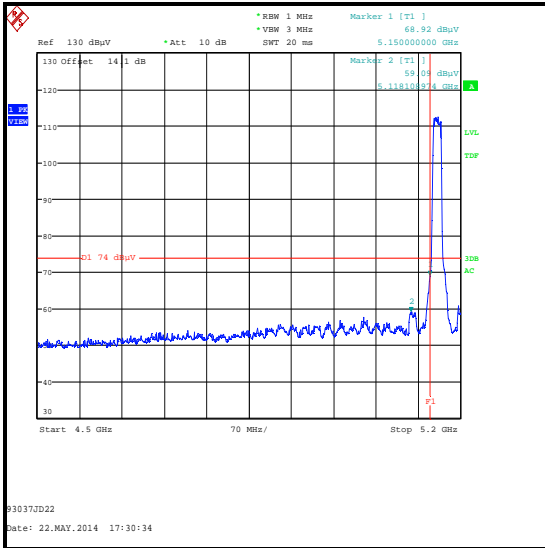
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5118.109 | 59.1 | 74.0 | 14.9 | Complied |
| 5150 | 68.9 | 74.0 | 5.1 | Complied |
| 5350 | 60.7 | 74.0 | 13.3 | Complied |
| 5360 | 63.3 | 74.0 | 10.7 | Complied |

Results: Parabolic Antenna / 15 MHz Channel / 256QAM / Average

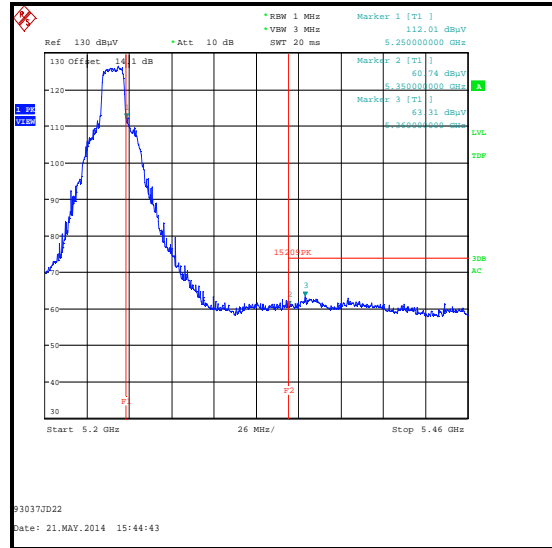
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5118.109 | 48.1 | 54.0 | 5.9 | Complied |
| 5150 | 52.1 | 54.0 | 1.9 | Complied |
| 5350 | 50.4 | 54.0 | 3.6 | Complied |
| 5362.083 | 51.4 | 54.0 | 2.6 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

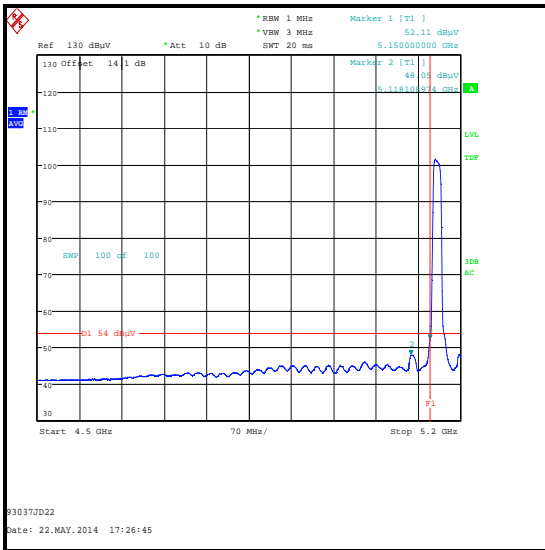
Results: Parabolic Antenna / 15 MHz Channel / 256QAM



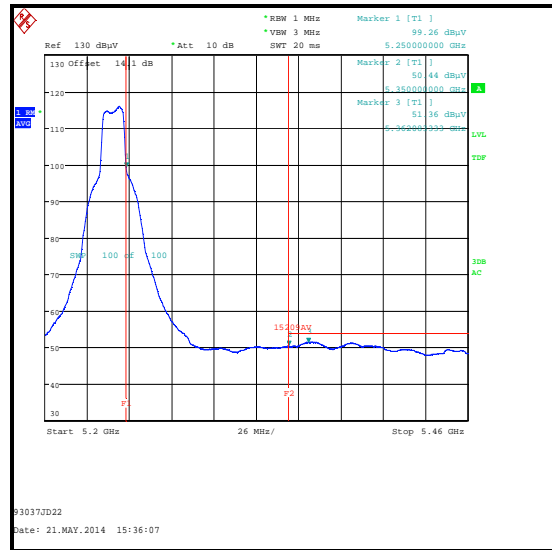
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 20 MHz Channel / 256QAM / Peak**

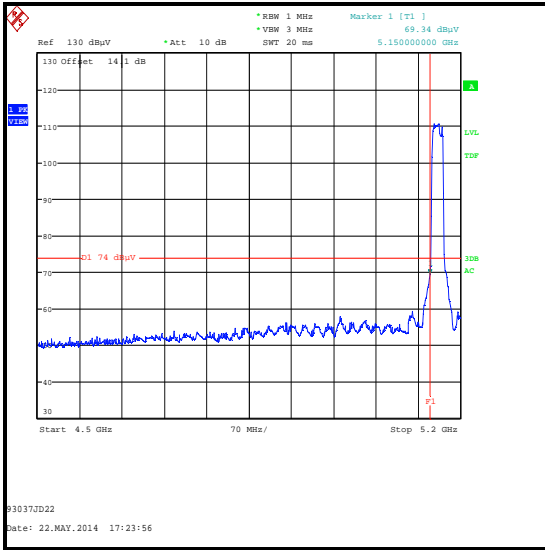
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 69.3 | 74.0 | 4.7 | Complied |
| 5350 | 62.6 | 74.0 | 11.4 | Complied |
| 5361.250 | 65.4 | 74.0 | 8.6 | Complied |

Results: Parabolic Antenna / 20 MHz Channel / 256QAM / Average

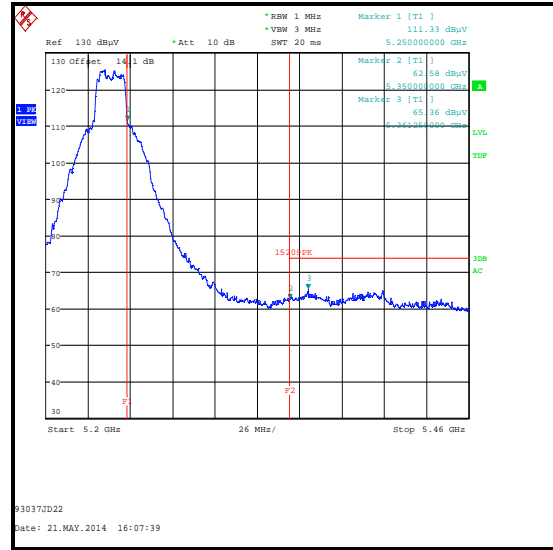
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.6 | 54.0 | 1.4 | Complied |
| 5350 | 51.6 | 54.0 | 2.4 | Complied |
| 5360.417 | 53.1 | 54.0 | 0.9 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Parabolic Antenna / 20 MHz Channel / 256QAM



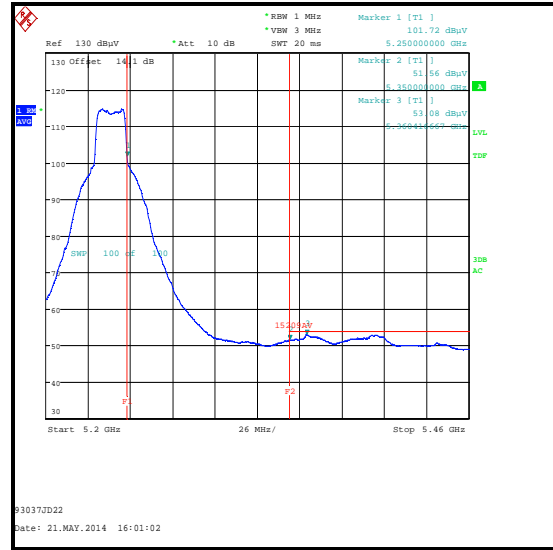
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 30 MHz Channel / 256QAM / Peak**

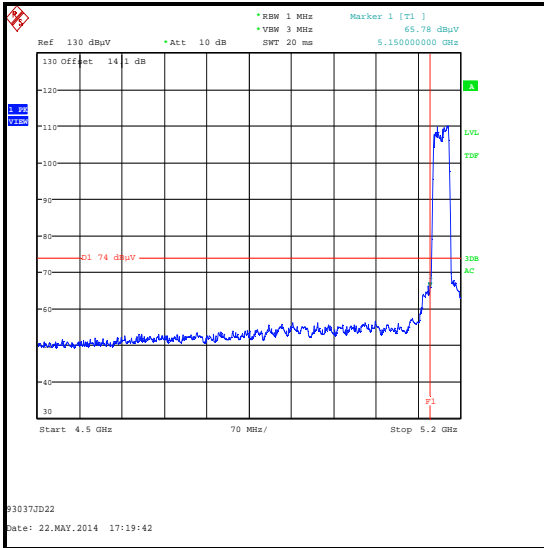
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 65.8 | 74.0 | 8.2 | Complied |
| 5350 | 62.9 | 74.0 | 11.1 | Complied |
| 5405.750 | 64.4 | 74.0 | 9.6 | Complied |

Results: Parabolic Antenna / 30 MHz Channel / 256QAM / Average

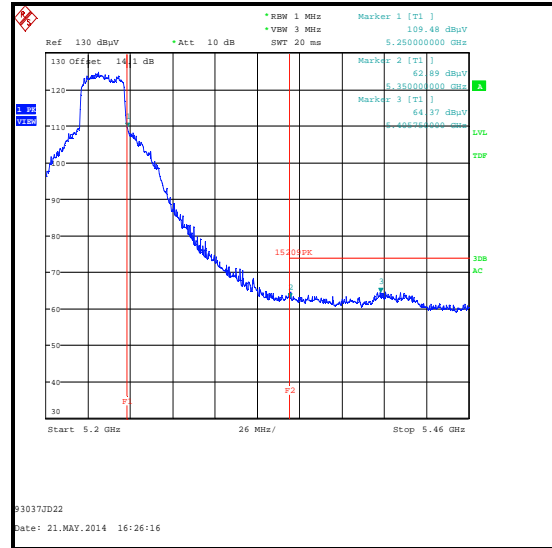
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.2 | 54.0 | 1.8 | Complied |
| 5350 | 52.7 | 54.0 | 1.3 | Complied |
| 5405.750 | 53.3 | 54.0 | 0.7 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

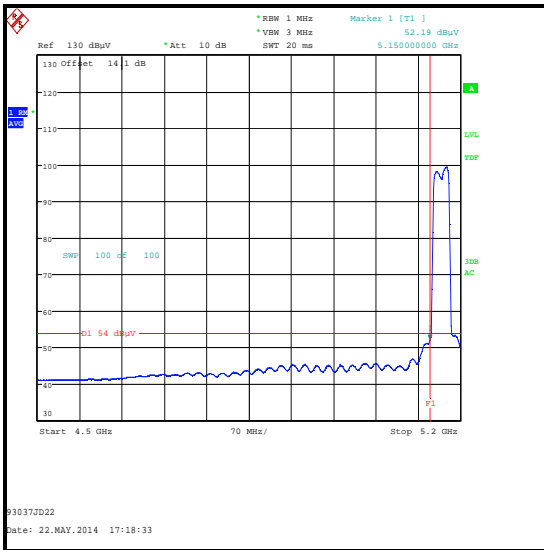
Results: Parabolic Antenna / 30 MHz Channel / 256QAM



Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 40 MHz Channel / 256QAM / Peak**

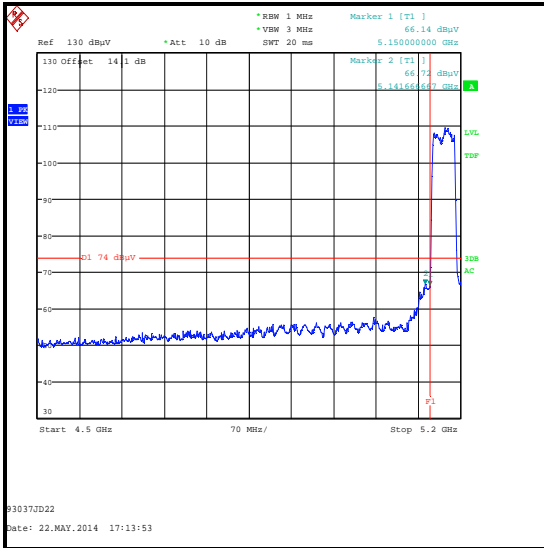
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5141.667 | 66.7 | 74.0 | 7.3 | Complied |
| 5150 | 66.1 | 74.0 | 7.9 | Complied |
| 5350 | 64.8 | 74.0 | 9.2 | Complied |
| 5351.917 | 67.8 | 74.0 | 6.2 | Complied |

Results: Parabolic Antenna / 40 MHz Channel / 256QAM / Average

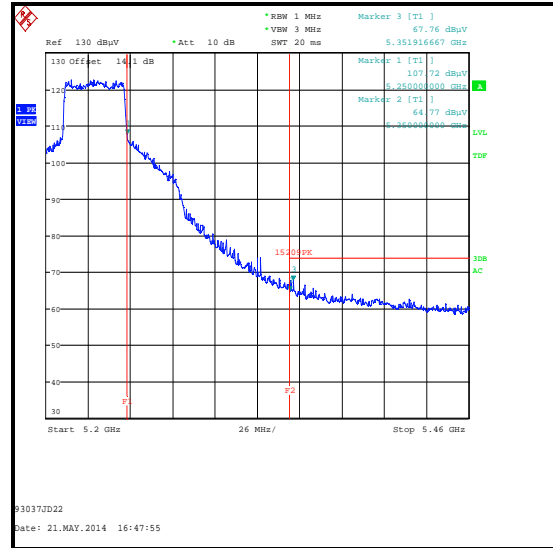
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 53.2 | 54.0 | 0.8 | Complied |
| 5350 | 53.1 | 54.0 | 0.9 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

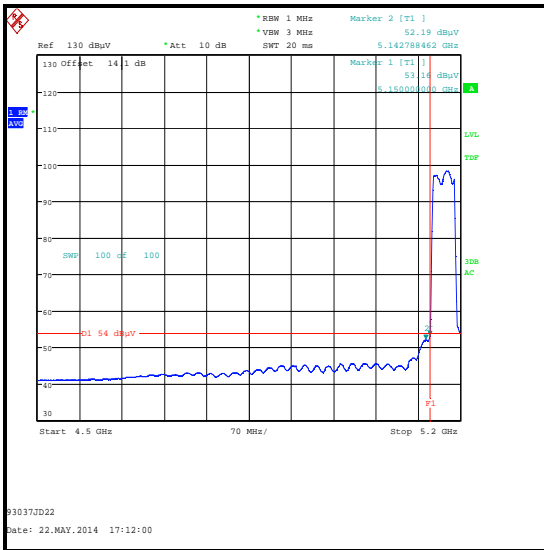
Results: Parabolic Antenna / 40 MHz Channel / 256QAM



Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Parabolic Antenna / 45 MHz Channel / 256QAM / Peak**

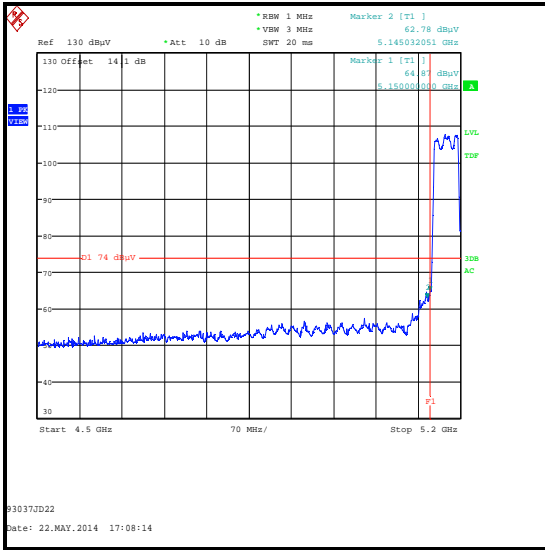
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5145.032 | 62.8 | 74.0 | 11.2 | Complied |
| 5150 | 64.9 | 74.0 | 9.1 | Complied |
| 5350 | 66.3 | 74.0 | 7.7 | Complied |

Results: Parabolic Antenna / 45 MHz Channel / 256QAM / Average

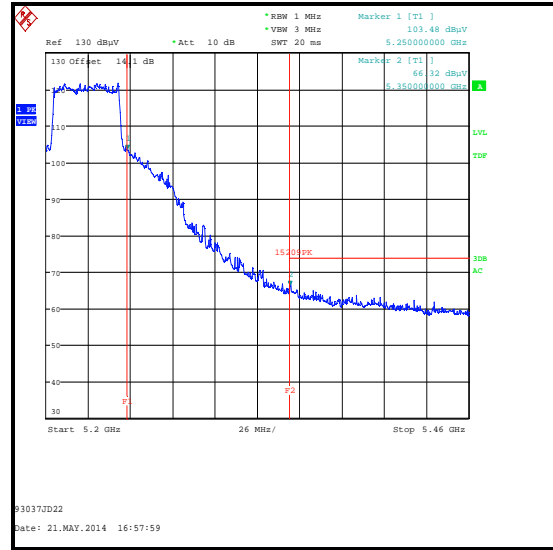
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.4 | 54.0 | 1.6 | Complied |
| 5350 | 53.1 | 54.0 | 0.9 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

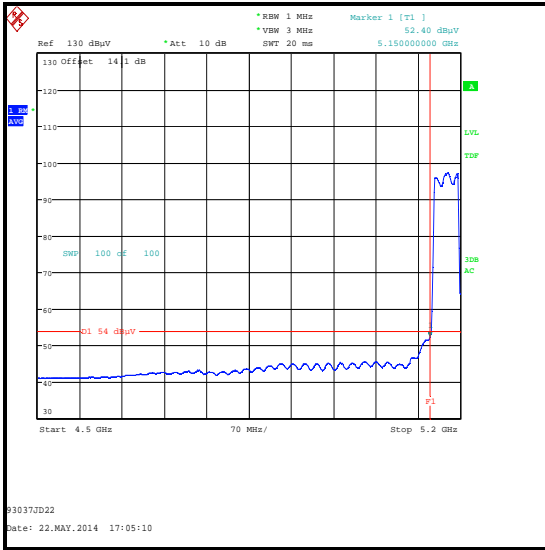
Results: Parabolic Antenna / 45 MHz Channel / 256QAM



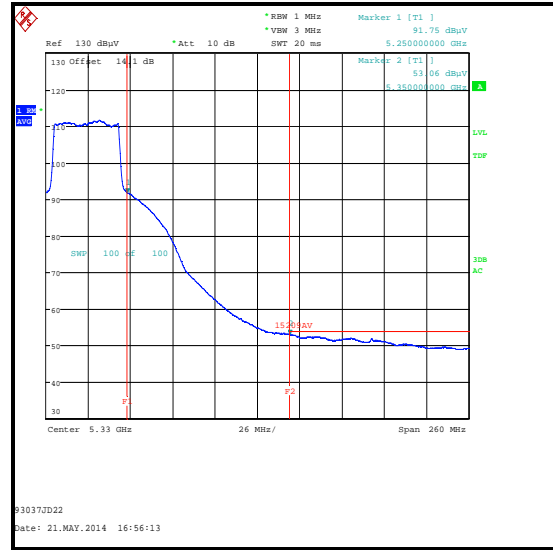
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 5 MHz Channel / 256QAM / Peak**

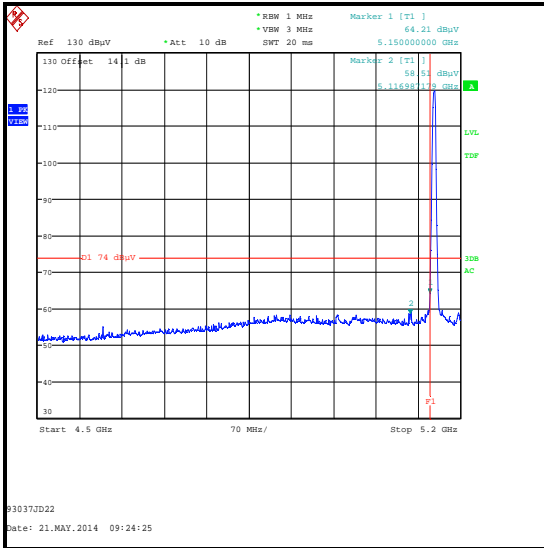
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 64.2 | 74.0 | 9.8 | Complied |
| 5350 | 56.1 | 74.0 | 17.9 | Complied |
| 5407.083 | 61.2 | 74.0 | 12.8 | Complied |

Results: Plate Antenna / 5 MHz Channel / 256QAM / Average

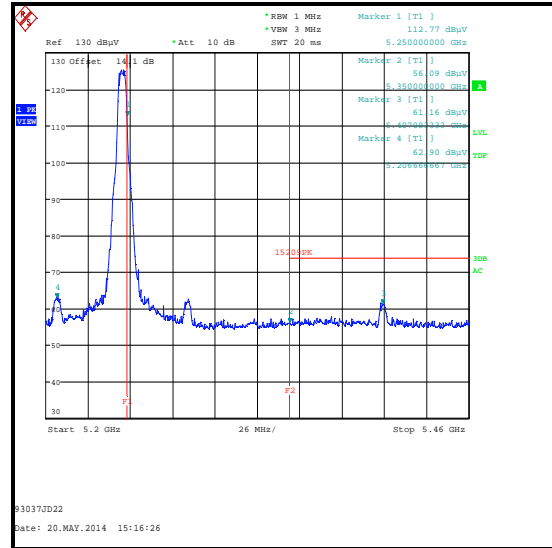
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 48.2 | 54.0 | 5.8 | Complied |
| 5350 | 46.3 | 54.0 | 7.7 | Complied |
| 5407.083 | 51.2 | 54.0 | 2.8 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

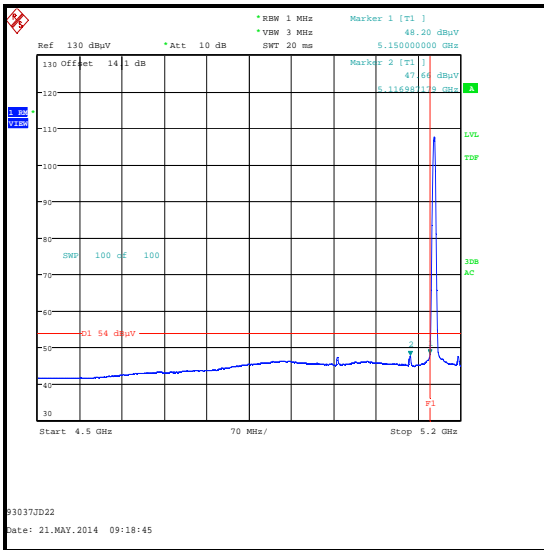
Results: Plate Antenna / 5 MHz Channel / 256QAM



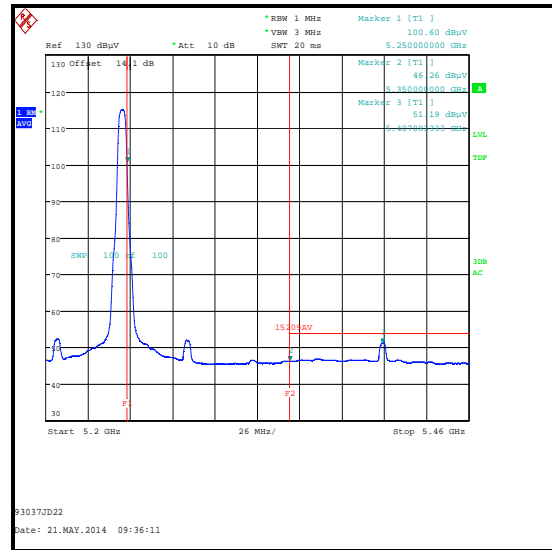
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 10 MHz Channel / 256QAM / Peak**

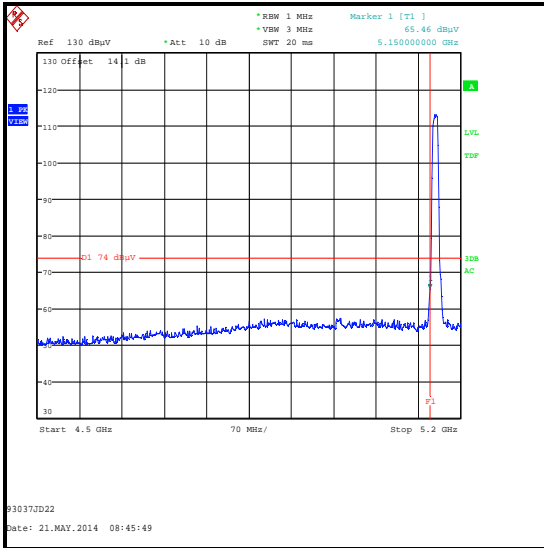
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 65.5 | 74.0 | 8.5 | Complied |
| 5350 | 56.1 | 74.0 | 17.9 | Complied |
| 5407.083 | 61.3 | 74.0 | 12.7 | Complied |

Results: Plate Antenna / 10 MHz Channel / 256QAM / Average

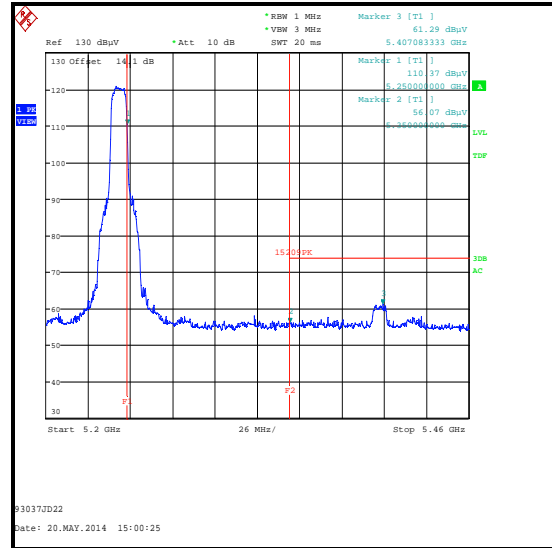
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 50.4 | 54.0 | 3.6 | Complied |
| 5350 | 46.2 | 54.0 | 7.8 | Complied |
| 5406.667 | 50.9 | 54.0 | 3.1 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

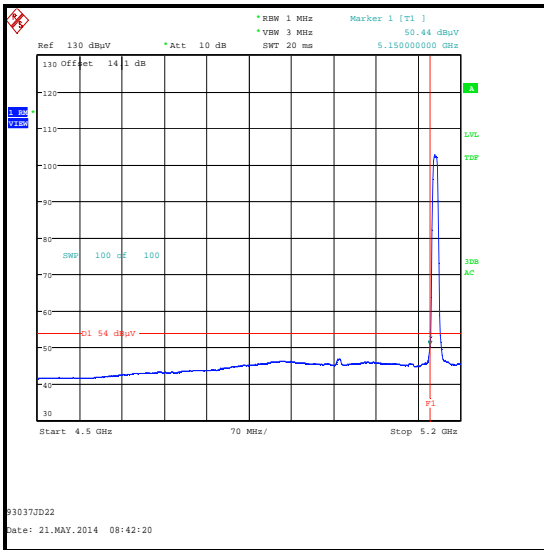
Results: Plate Antenna / 10 MHz Channel / 256QAM



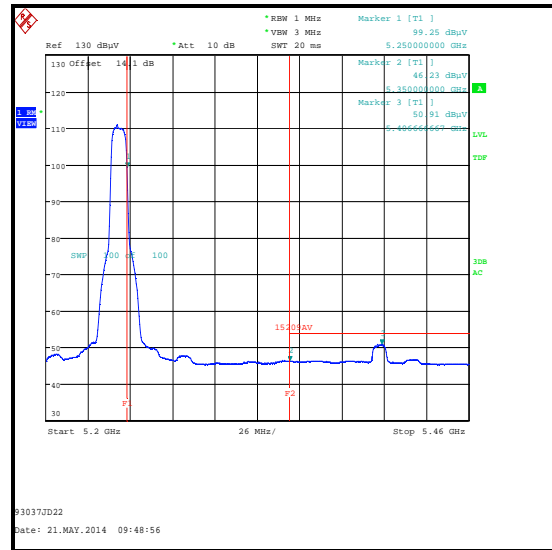
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 15 MHz Channel / 256QAM / Peak**

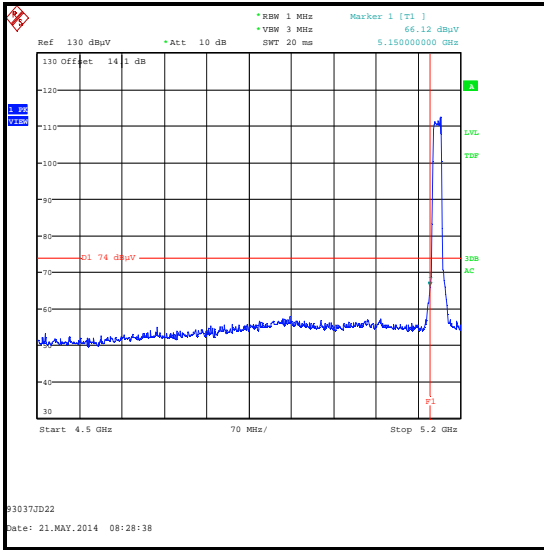
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 66.1 | 74.0 | 7.9 | Complied |
| 5350 | 58.9 | 74.0 | 15.1 | Complied |
| 5361.250 | 60.5 | 74.0 | 13.5 | Complied |

Results: Plate Antenna / 15 MHz Channel / 256QAM / Average

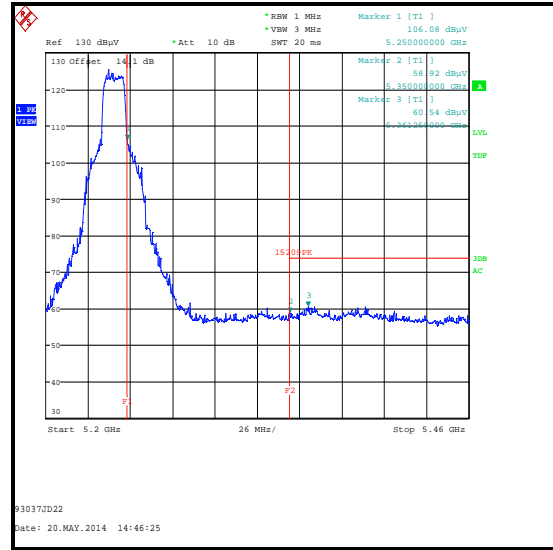
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 51.5 | 54.0 | 2.5 | Complied |
| 5350 | 48.1 | 54.0 | 5.9 | Complied |
| 5362.083 | 49.4 | 54.0 | 4.6 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

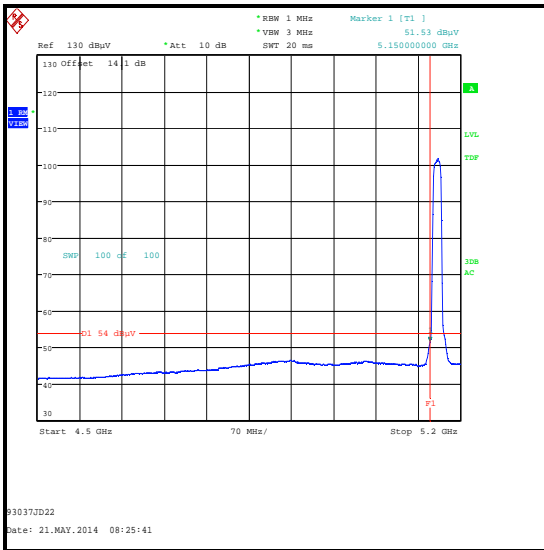
Results: Plate Antenna / 15 MHz Channel / 256QAM



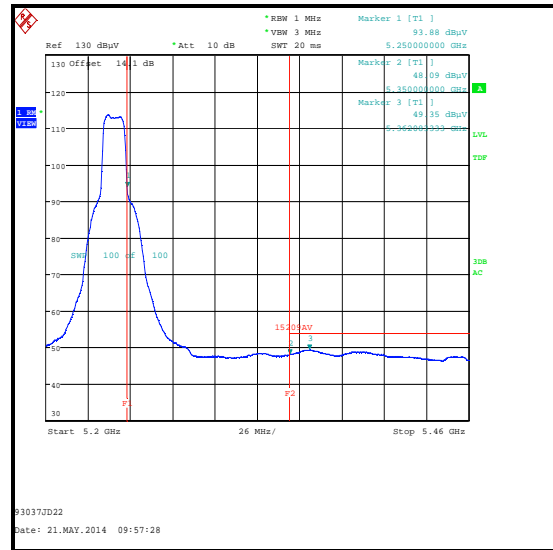
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 20 MHz Channel / 256QAM / Peak**

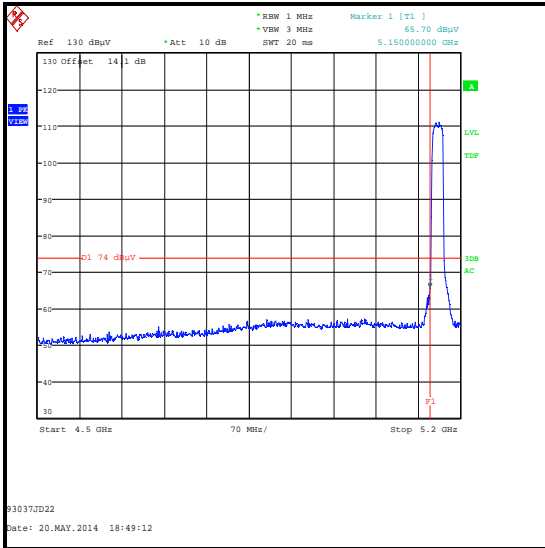
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 65.7 | 74.0 | 8.3 | Complied |
| 5350 | 58.7 | 74.0 | 15.3 | Complied |
| 5394.583 | 60.1 | 74.0 | 13.9 | Complied |

Results: Plate Antenna / 20 MHz Channel / 256QAM / Average

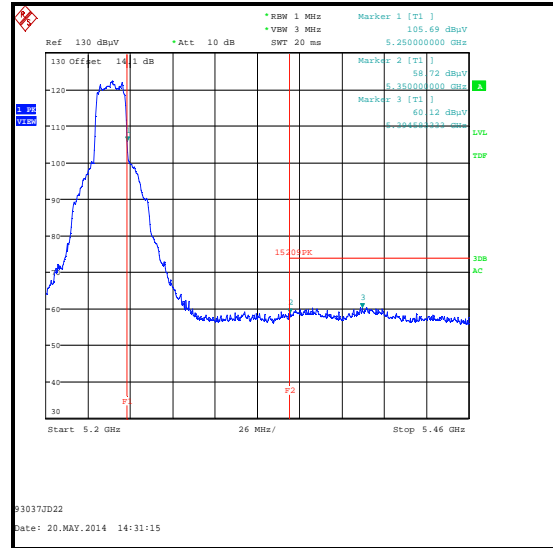
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 51.3 | 54.0 | 2.7 | Complied |
| 5350 | 48.3 | 54.0 | 5.7 | Complied |
| 5362.083 | 49.0 | 54.0 | 5.0 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

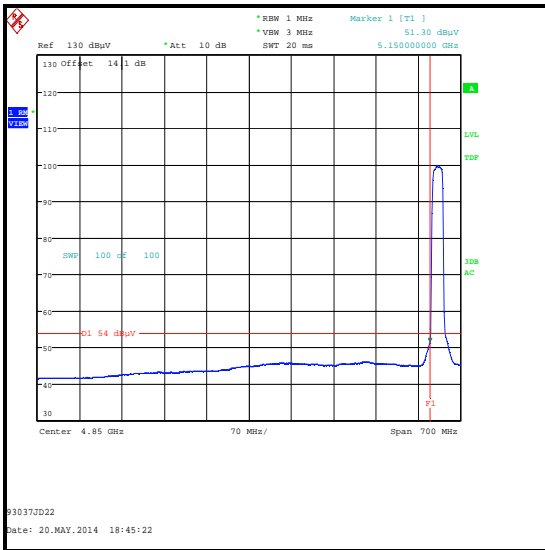
Results: Plate Antenna / 20 MHz Channel / 256QAM



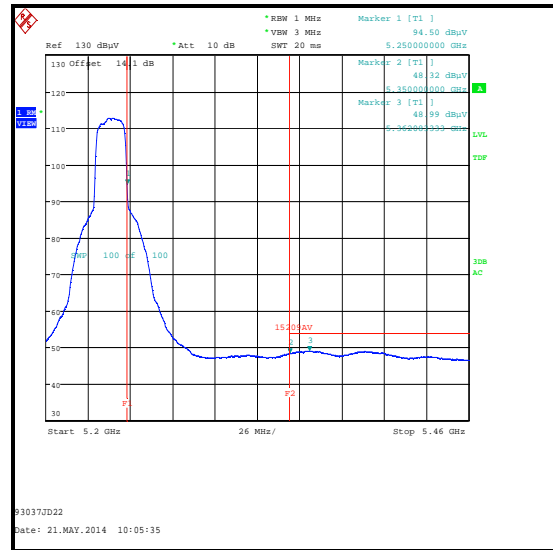
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 30 MHz Channel / 256QAM / Peak**

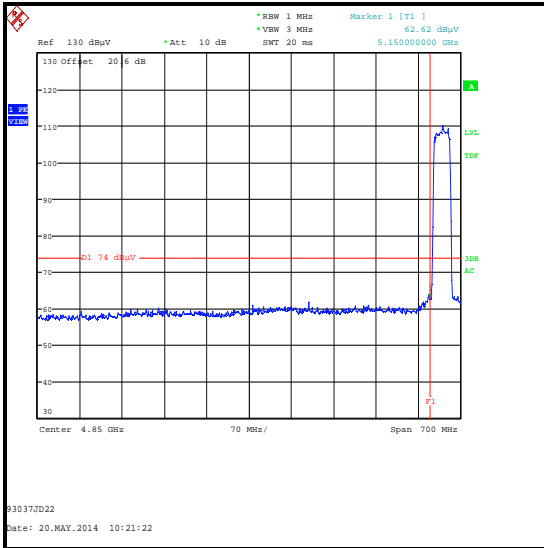
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 62.6 | 74.0 | 11.4 | Complied |
| 5350 | 60.2 | 74.0 | 13.8 | Complied |

Results: Plate Antenna / 30 MHz Channel / 256QAM / Average

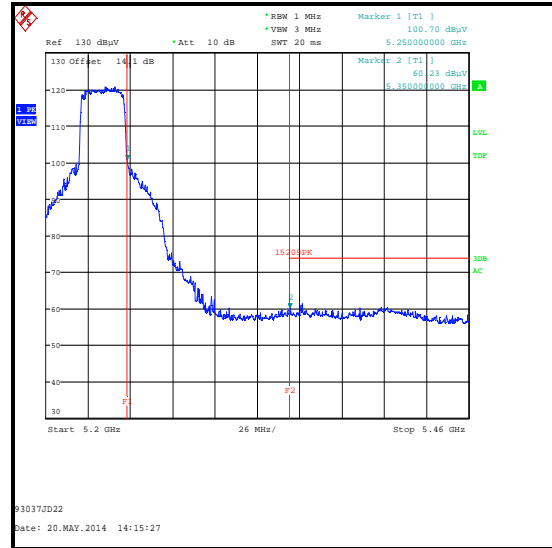
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.8 | 54.0 | 1.2 | Complied |
| 5350 | 49.2 | 54.0 | 4.8 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Plate Antenna / 30 MHz Channel / 256QAM



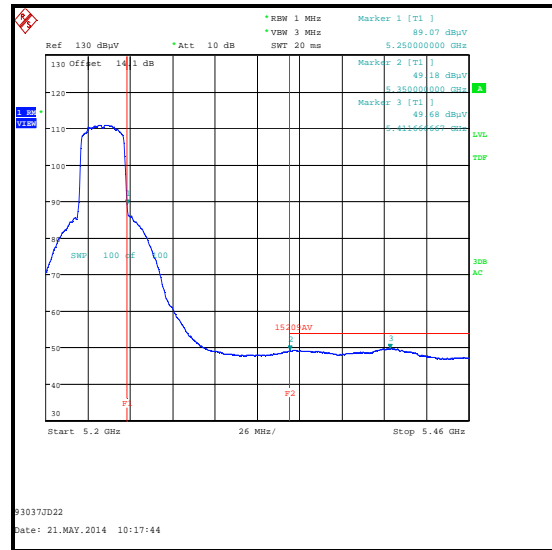
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 40 MHz Channel / 256QAM / Peak**

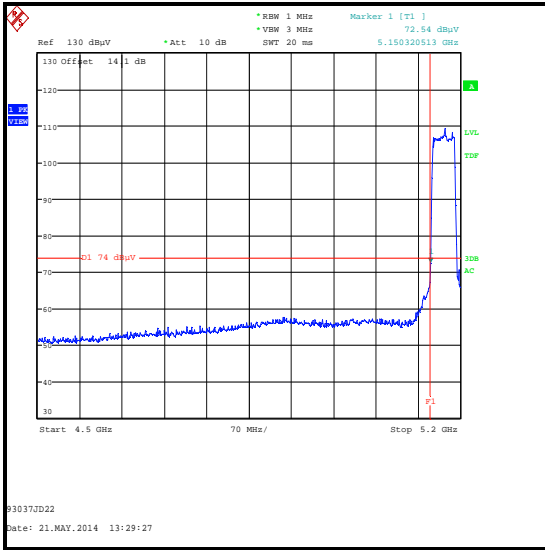
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 72.5 | 74.0 | 1.5 | Complied |
| 5350 | 59.4 | 74.0 | 14.6 | Complied |

Results: Plate Antenna / 40 MHz Channel / 256QAM / Average

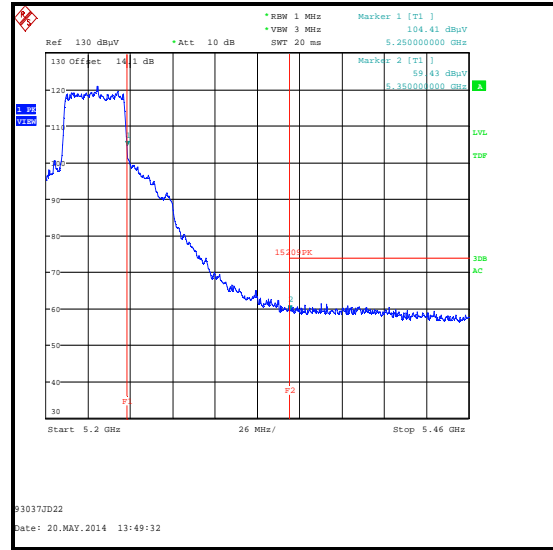
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 53.1 | 54.0 | 0.9 | Complied |
| 5350 | 49.6 | 54.0 | 5.4 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Plate Antenna / 40 MHz Channel / 256QAM



Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Plate Antenna / 45 MHz Channel / 256QAM / Peak**

| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 64.6 | 74.0 | 9.4 | Complied |
| 5350 | 60.2 | 74.0 | 13.8 | Complied |

Results: Plate Antenna / 45 MHz Channel / 256QAM / Average

| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.9 | 54.0 | 1.1 | Complied |
| 5350 | 48.6 | 54.0 | 5.4 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 5 MHz Channel / 256QAM / Peak**

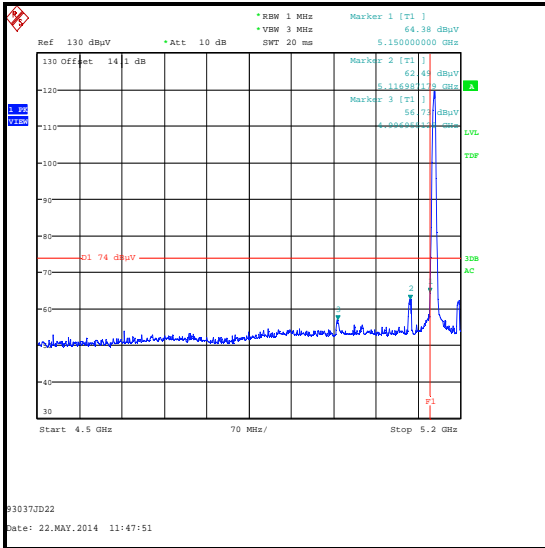
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 64.4 | 74.0 | 9.6 | Complied |
| 5350 | 53.0 | 74.0 | 21.0 | Complied |
| 5359 | 55.0 | 74.0 | 19.0 | Complied |

Results: Sectorised Antenna / 5 MHz Channel / 256QAM / Average

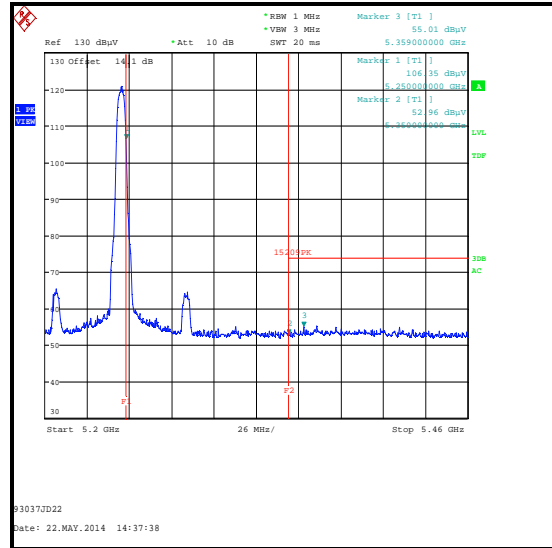
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 47.7 | 54.0 | 6.3 | Complied |
| 5350 | 43.6 | 54.0 | 10.4 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

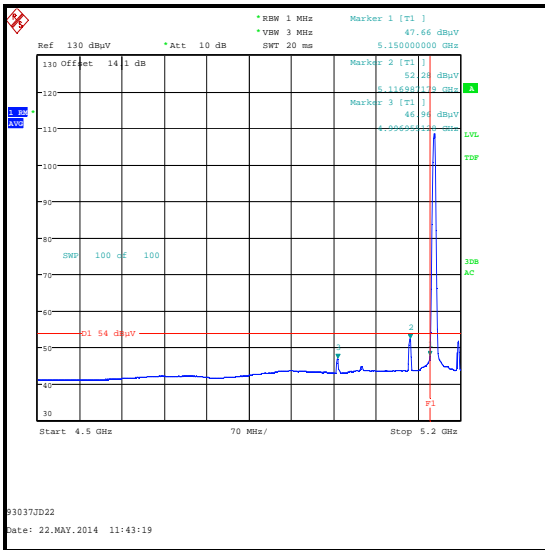
Results: Sectorised Antenna / 5 MHz Channel / 256QAM



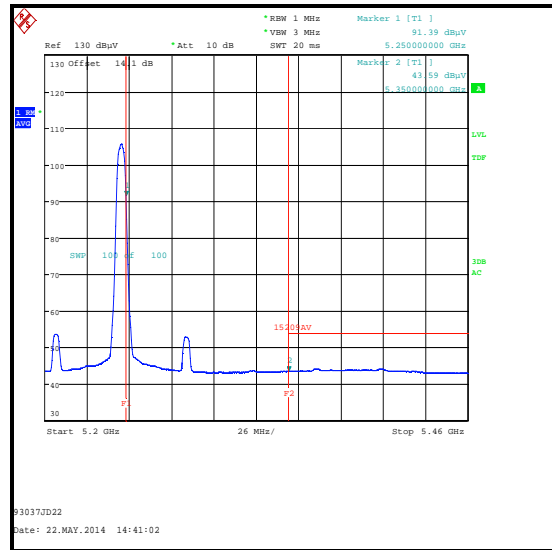
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 10 MHz Channel / 256QAM / Peak**

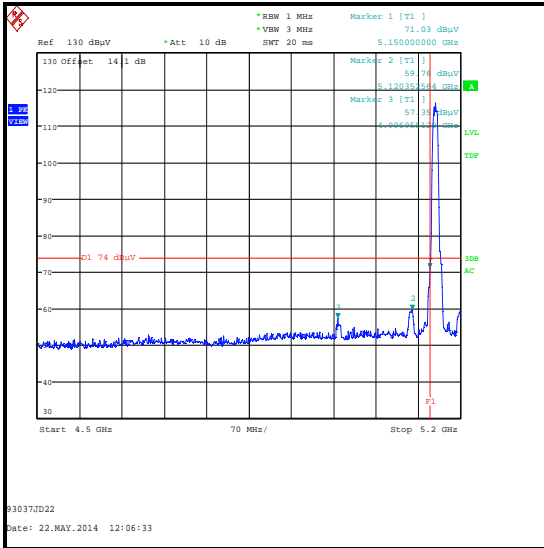
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 4996.955 | 57.4 | 74.0 | 16.6 | Complied |
| 5120.353 | 59.8 | 74.0 | 14.2 | Complied |
| 5150 | 71.0 | 74.0 | 3.0 | Complied |
| 5350 | 52.7 | 74.0 | 21.3 | Complied |
| 5404.583 | 56.0 | 74.0 | 18.0 | Complied |

Results: Sectorised Antenna / 10 MHz Channel / 256QAM / Average

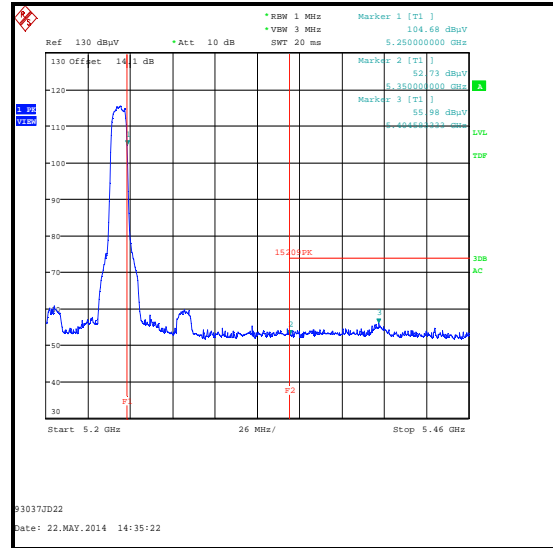
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 4999.199 | 44.5 | 54.0 | 9.5 | Complied |
| 5118.109 | 48.9 | 54.0 | 5.1 | Complied |
| 5150 | 50.6 | 54.0 | 3.4 | Complied |
| 5350 | 43.6 | 54.0 | 10.4 | Complied |
| 5403.334 | 45.0 | 54.0 | 9.0 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

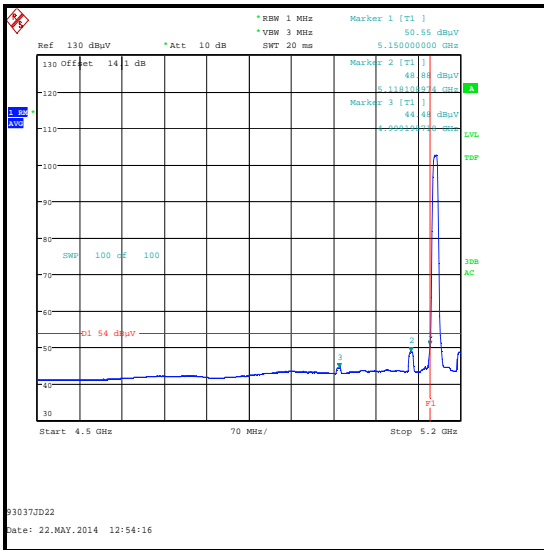
Results: Sectorised Antenna / 10 MHz Channel / 256QAM



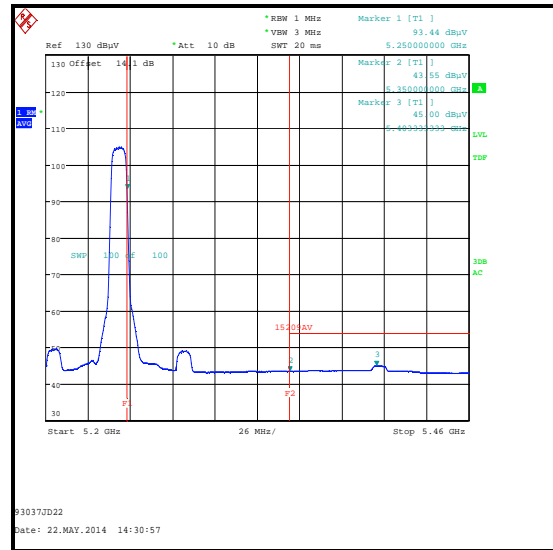
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 15 MHz Channel / 256QAM / Peak**

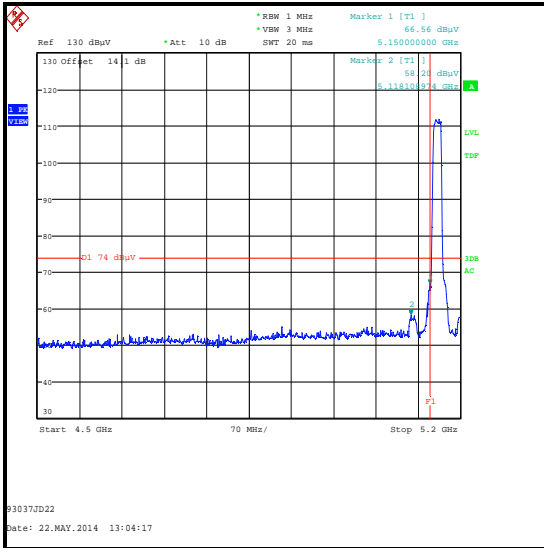
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5118.109 | 58.2 | 74.0 | 15.8 | Complied |
| 5150 | 66.6 | 74.0 | 7.4 | Complied |
| 5350 | 54.0 | 74.0 | 20.0 | Complied |

Results: Parabolic Antenna / 15 MHz Channel / 256QAM / Average

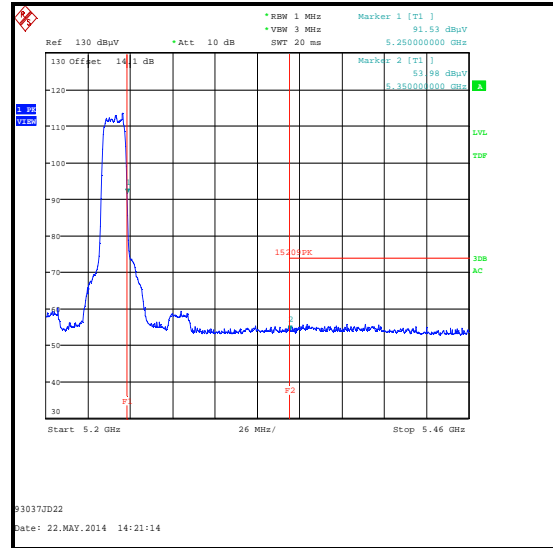
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5118.109 | 47.6 | 54.0 | 6.4 | Complied |
| 5150 | 51.4 | 54.0 | 2.6 | Complied |
| 5350 | 43.5 | 54.0 | 10.5 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Sectorised Antenna / 15 MHz Channel / 256QAM



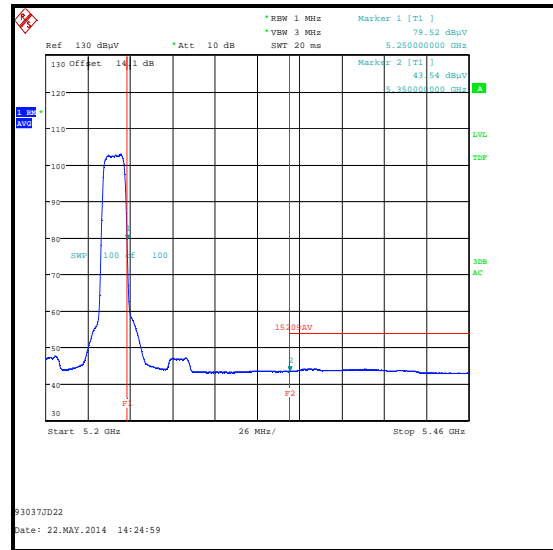
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 20 MHz Channel / 256QAM / Peak**

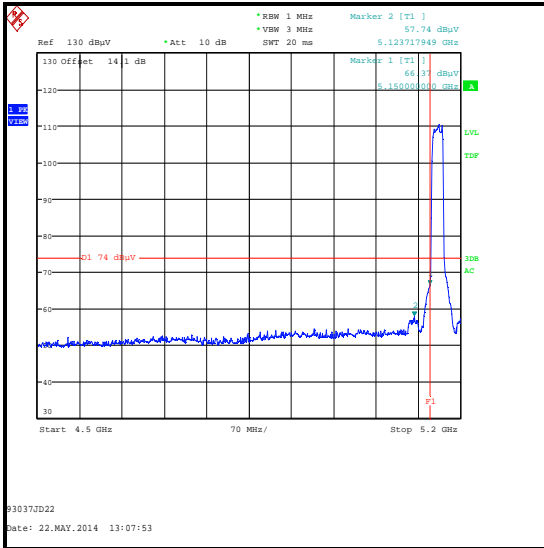
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5123.718 | 57.7 | 74.0 | 16.3 | Complied |
| 5150 | 66.4 | 74.0 | 7.6 | Complied |
| 5350 | 53.7 | 74.0 | 20.3 | Complied |
| 5375.500 | 55.0 | 74.0 | 19.0 | Complied |

Results: Sectorised Antenna / 20 MHz Channel / 256QAM / Average

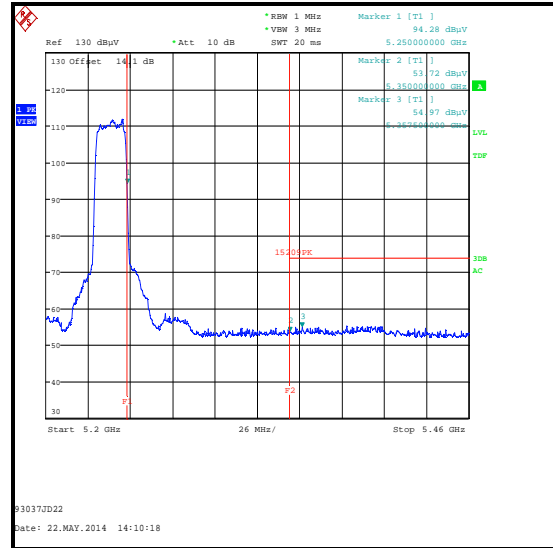
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5123.718 | 46.8 | 54.0 | 7.2 | Complied |
| 5150 | 53.1 | 54.0 | 0.9 | Complied |
| 5350 | 43.6 | 54.0 | 10.4 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

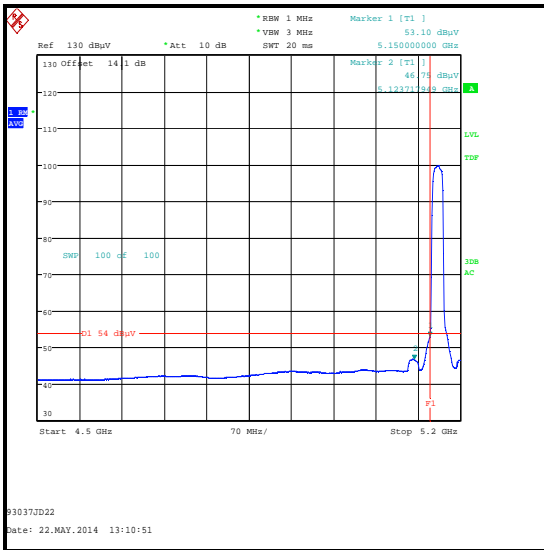
Results: Sectorised Antenna / 20 MHz Channel / 256QAM



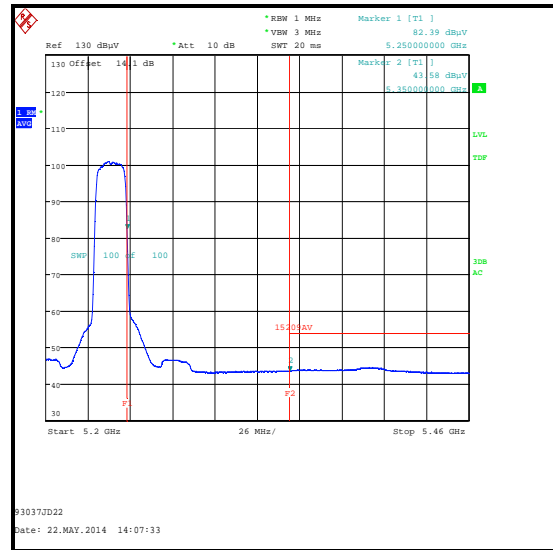
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 30 MHz Channel / 256QAM / Peak**

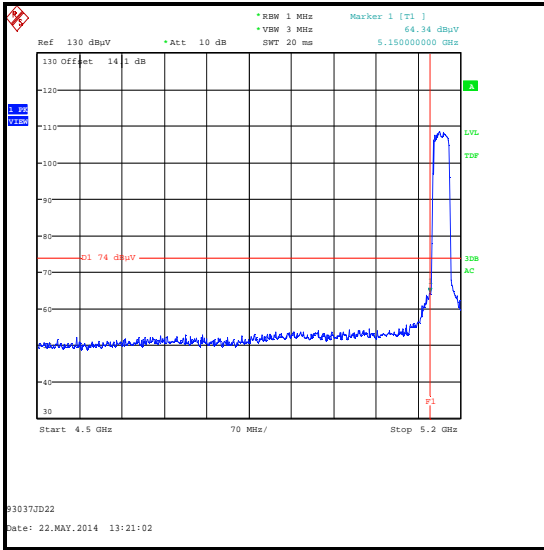
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 64.3 | 74.0 | 9.7 | Complied |
| 5350 | 53.6 | 74.0 | 20.4 | Complied |
| 5358.334 | 55.4 | 74.0 | 18.6 | Complied |

Results: Sectorised Antenna / 30 MHz Channel / 256QAM / Average

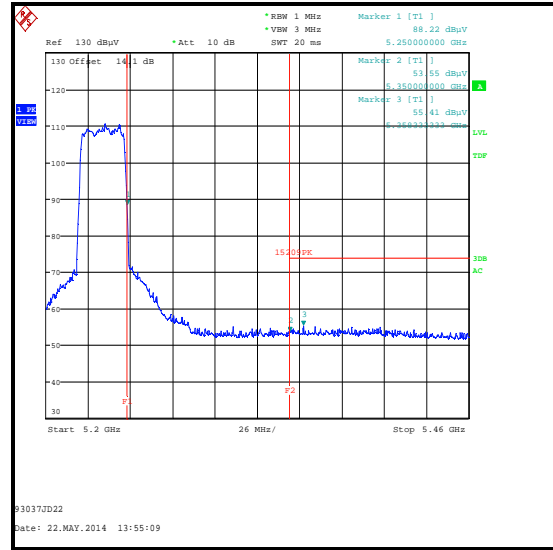
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.5 | 54.0 | 1.5 | Complied |
| 5350 | 43.9 | 54.0 | 10.1 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Sectorised Antenna / 30 MHz Channel / 256QAM



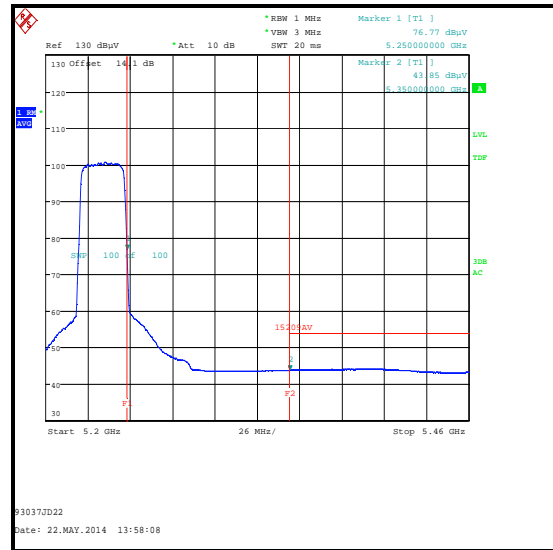
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 40 MHz Channel / 256QAM / Peak**

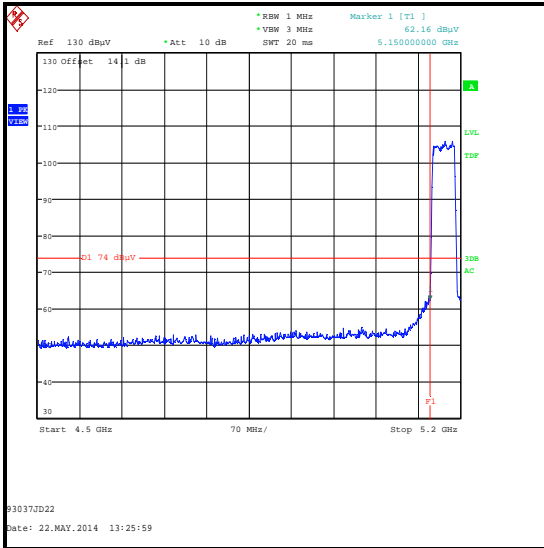
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 62.2 | 74.0 | 11.8 | Complied |
| 5350 | 54.1 | 74.0 | 19.9 | Complied |
| 5382.917 | 55.7 | 74.0 | 18.3 | Complied |

Results: Sectorised Antenna / 40 MHz Channel / 256QAM / Average

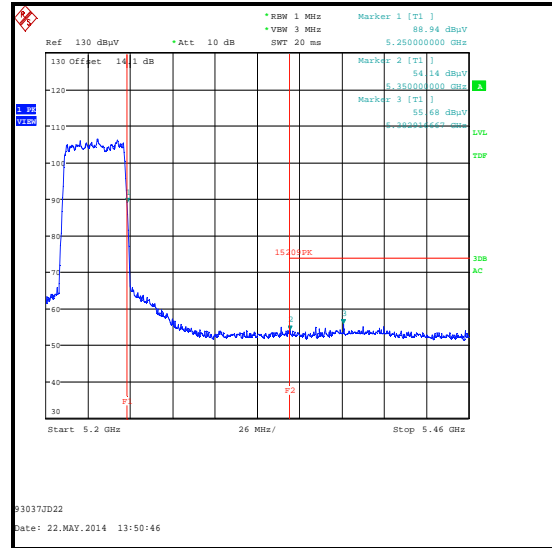
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 50.4 | 54.0 | 3.6 | Complied |
| 5350 | 43.5 | 54.0 | 10.5 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Sectorised Antenna / 40 MHz Channel / 256QAM



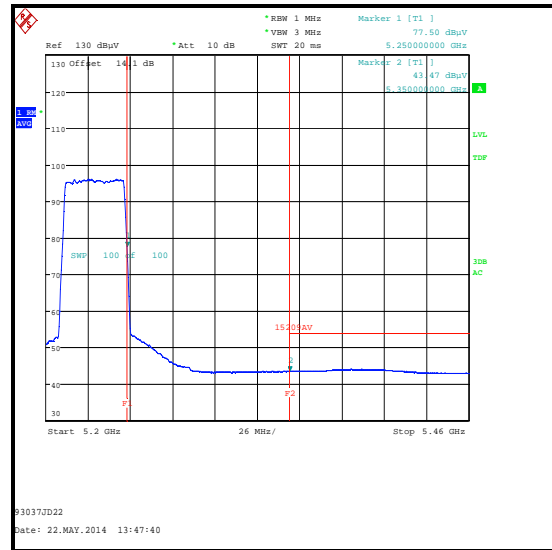
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Sectorised Antenna / 45 MHz Channel / 256QAM / Peak**

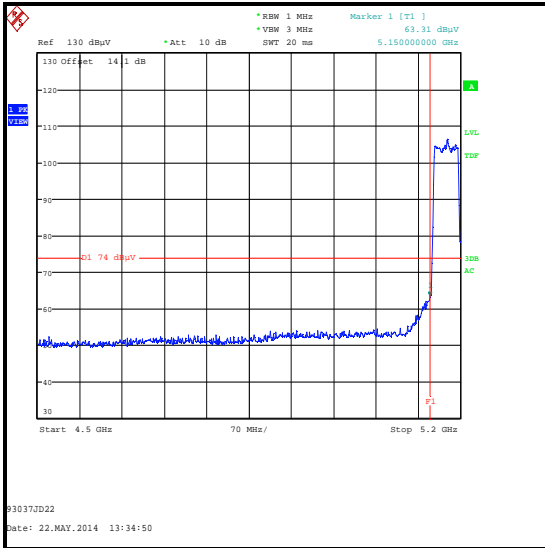
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 63.3 | 74.0 | 10.7 | Complied |
| 5350 | 53.3 | 74.0 | 20.7 | Complied |

Results: Sectorised Antenna / 45 MHz Channel / 256QAM / Average

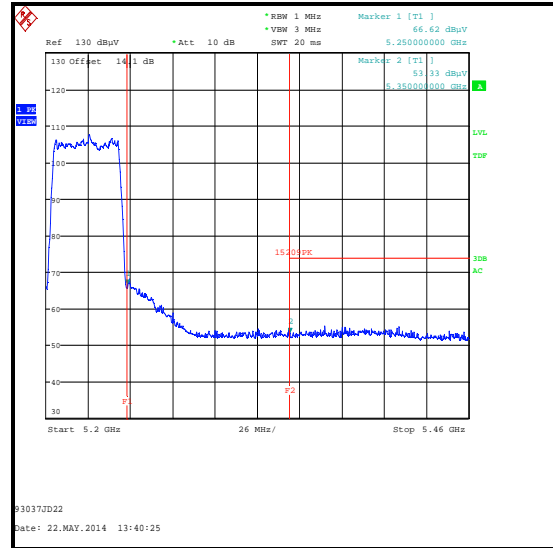
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.3 | 54.0 | 1.7 | Complied |
| 5350 | 43.6 | 54.0 | 10.4 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

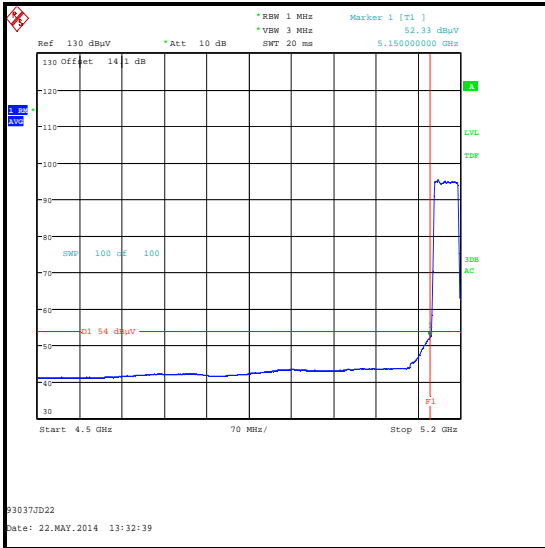
Results: Sectorised Antenna / 45 MHz Channel / 256QAM



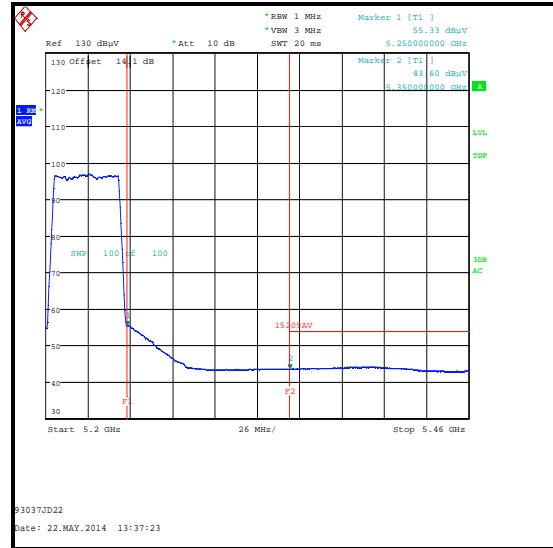
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 5 MHz Channel / 256QAM / Peak**

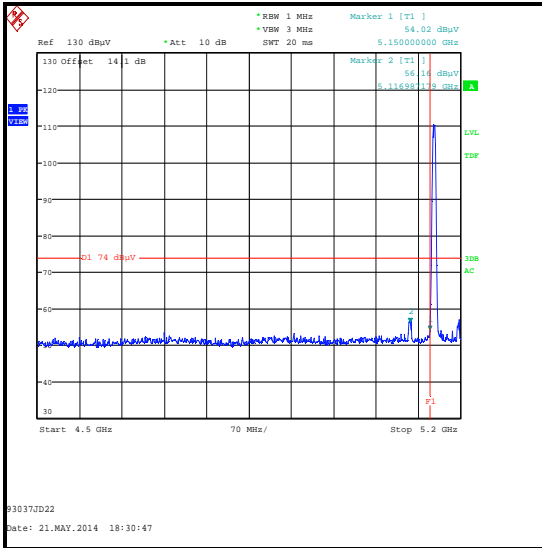
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 54.0 | 74.0 | 20.0 | Complied |
| 5350 | 51.7 | 74.0 | 22.3 | Complied |

Results: Omnidirectional Antenna / 5 MHz Channel / 256QAM / Average

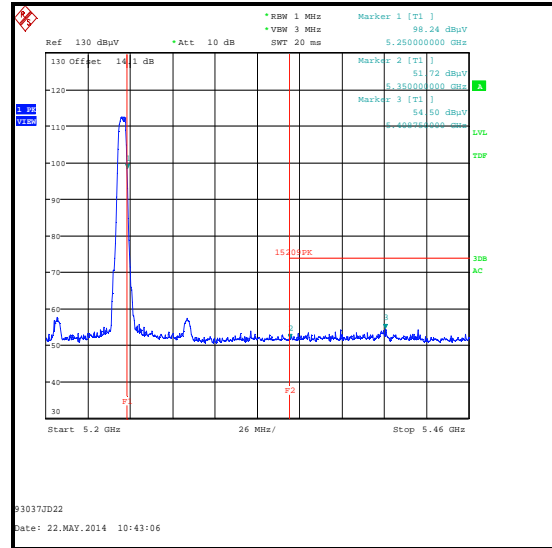
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 43.4 | 54.0 | 10.6 | Complied |
| 5350 | 42.7 | 54.0 | 11.3 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

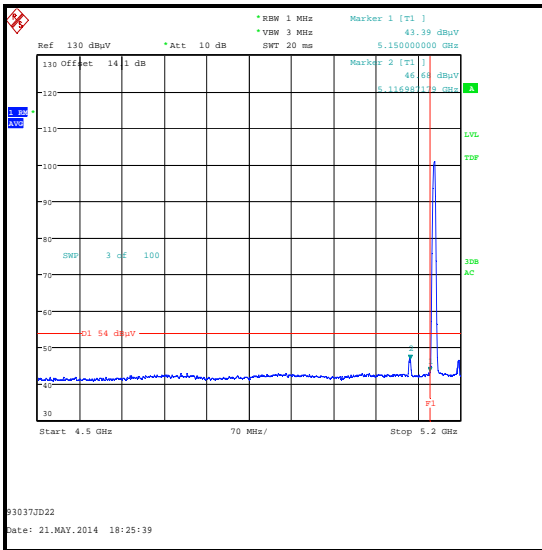
Results: Omnidirectional Antenna / 5 MHz Channel / 256QAM



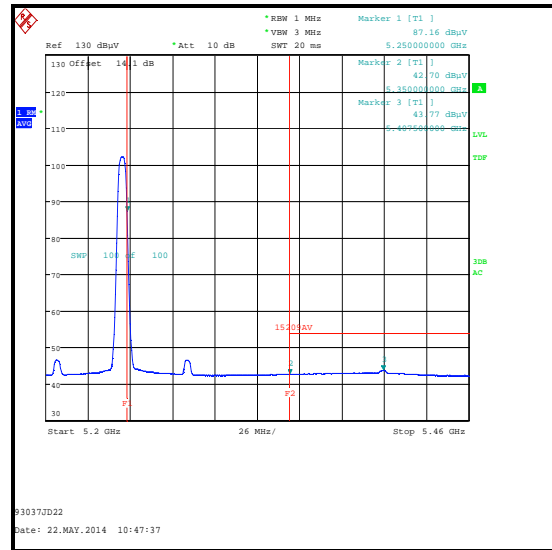
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 10 MHz Channel / 256QAM / Peak**

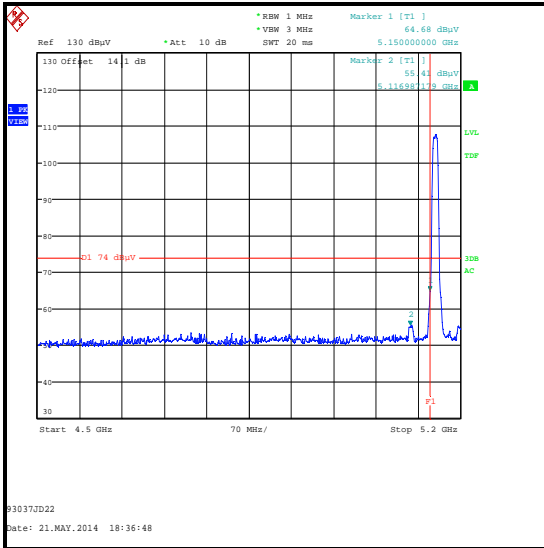
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 64.7 | 74.0 | 9.3 | Complied |
| 5350 | 51.3 | 74.0 | 22.7 | Complied |
| 5402.083 | 54.5 | 74.0 | 19.5 | Complied |

Results: Omnidirectional Antenna / 10 MHz Channel / 256QAM / Average

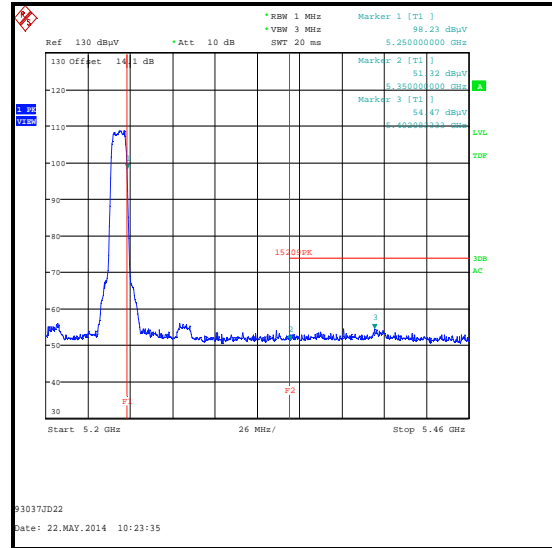
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 48.4 | 54.0 | 5.6 | Complied |
| 5350 | 42.8 | 54.0 | 11.2 | Complied |
| 5405 | 43.7 | 54.0 | 10.3 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

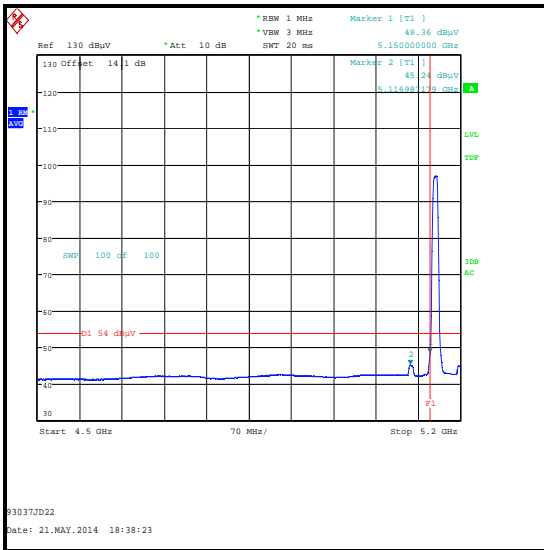
Results: Omnidirectional Antenna / 10 MHz Channel / 256QAM



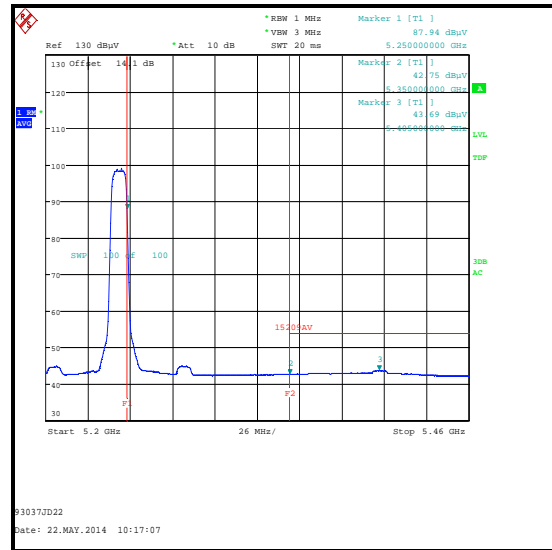
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 15 MHz Channel / 256QAM / Peak**

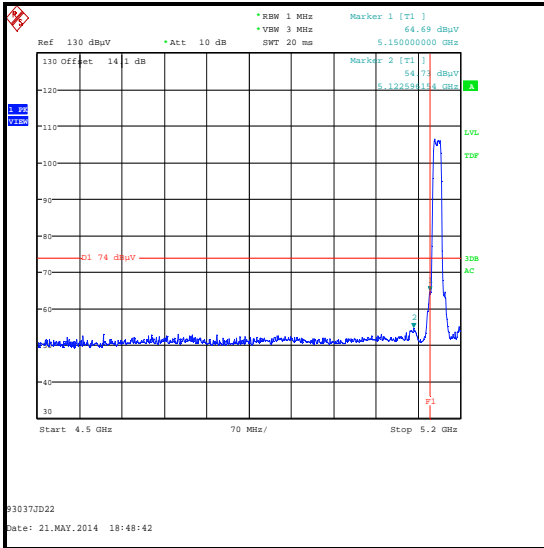
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 64.7 | 74.0 | 9.3 | Complied |
| 5350 | 51.5 | 74.0 | 22.5 | Complied |
| 5352.083 | 52.9 | 74.0 | 21.1 | Complied |

Results: Parabolic Antenna / 15 MHz Channel / 256QAM / Average

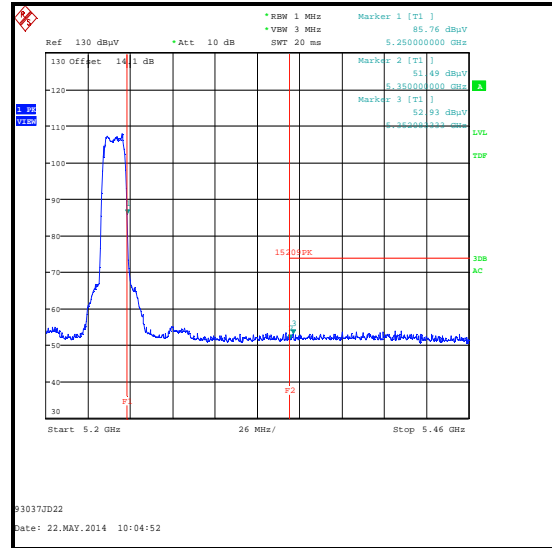
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 49.6 | 54.0 | 4.4 | Complied |
| 5350 | 42.7 | 54.0 | 11.3 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

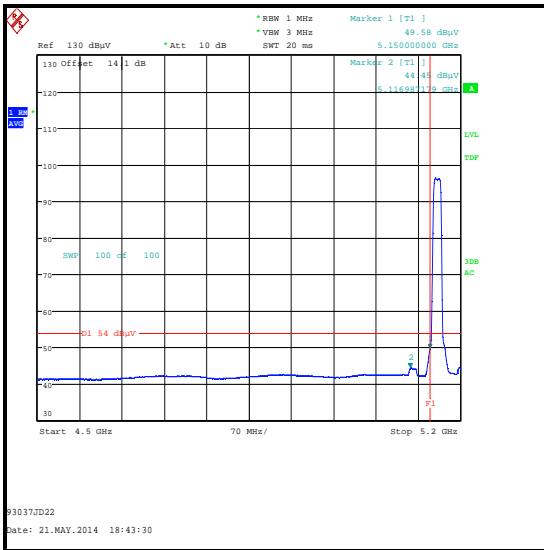
Results: Omnidirectional Antenna / 15 MHz Channel / 256QAM



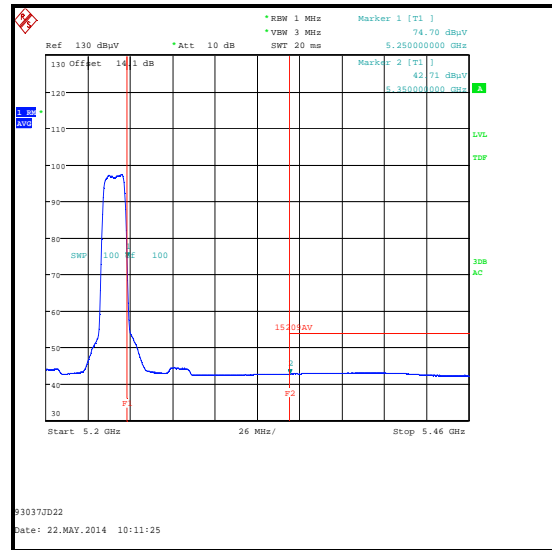
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 20 MHz Channel / 256QAM / Peak**

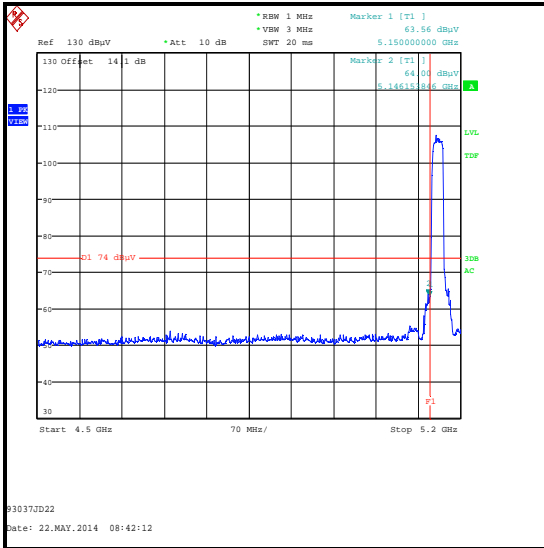
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5146.154 | 64.0 | 74.0 | 10.0 | Complied |
| 5150 | 63.6 | 74.0 | 10.4 | Complied |
| 5350 | 52.0 | 74.0 | 22.0 | Complied |
| 5351.667 | 53.1 | 74.0 | 20.9 | Complied |

Results: Omnidirectional Antenna / 20 MHz Channel / 256QAM / Average

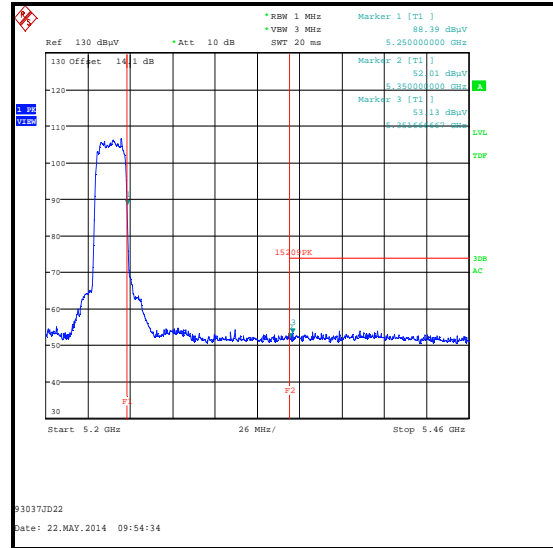
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 50.3 | 54.0 | 3.7 | Complied |
| 5350 | 42.8 | 54.0 | 11.2 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

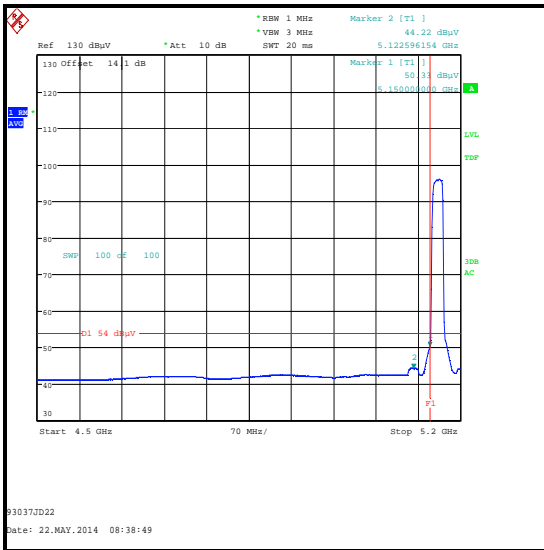
Results: Omnidirectional Antenna / 20 MHz Channel / 256QAM



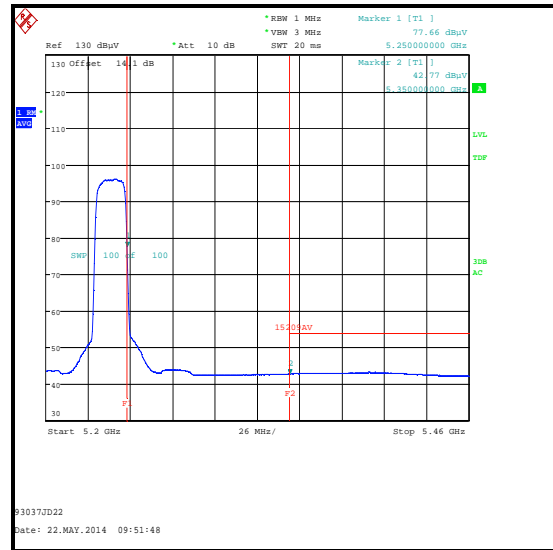
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 30 MHz Channel / 256QAM / Peak**

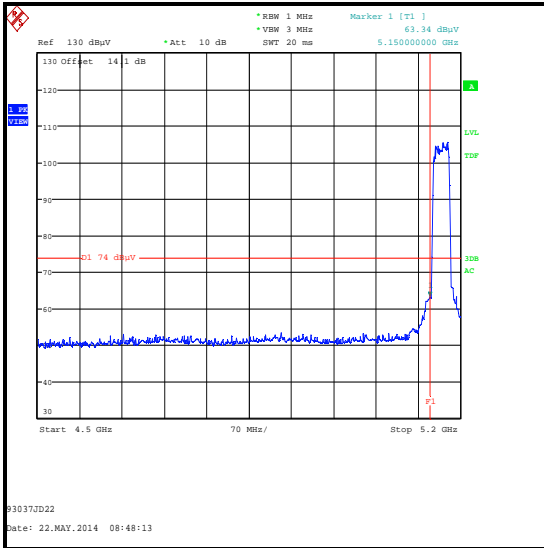
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 63.3 | 74.0 | 10.7 | Complied |
| 5350 | 52.5 | 74.0 | 21.5 | Complied |

Results: Omnidirectional Antenna / 30 MHz Channel / 256QAM / Average

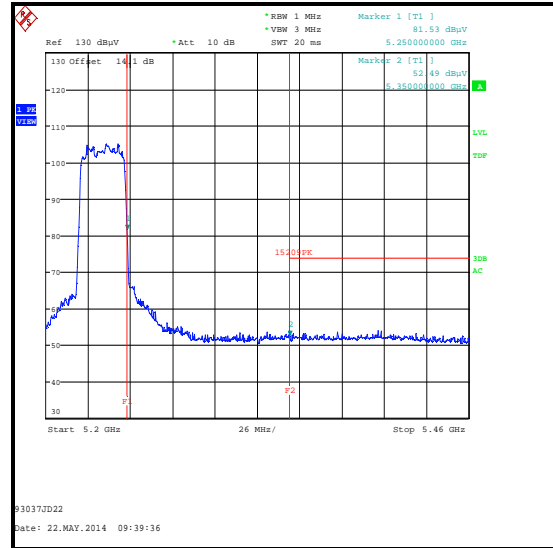
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.3 | 54.0 | 1.7 | Complied |
| 5350 | 42.9 | 54.0 | 11.1 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Omnidirectional Antenna / 30 MHz Channel / 256QAM



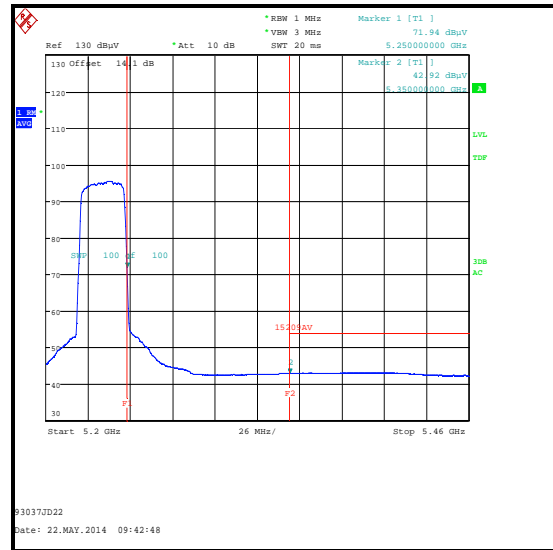
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 40 MHz Channel / 256QAM / Peak**

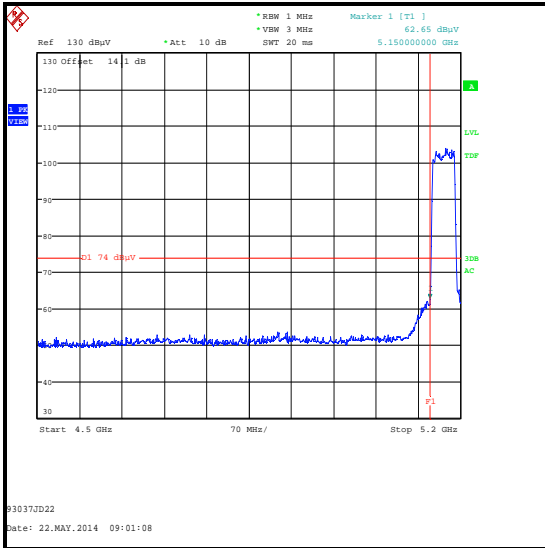
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 62.7 | 74.0 | 11.3 | Complied |
| 5350 | 52.5 | 74.0 | 21.5 | Complied |

Results: Omnidirectional Antenna / 40 MHz Channel / 256QAM / Average

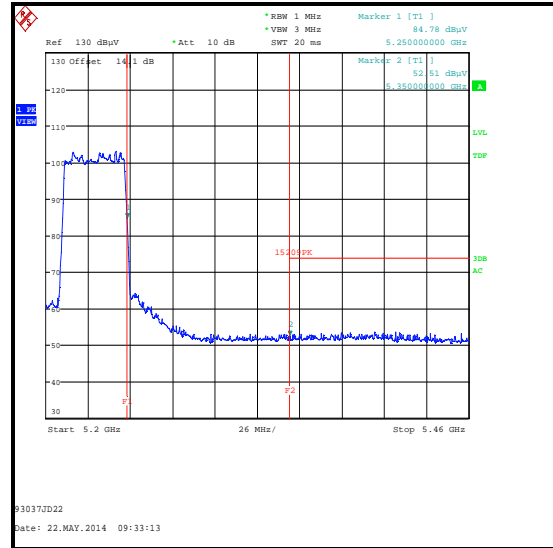
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 51.0 | 54.0 | 3.0 | Complied |
| 5350 | 42.8 | 54.0 | 11.2 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

Results: Omnidirectional Antenna / 40 MHz Channel / 256QAM



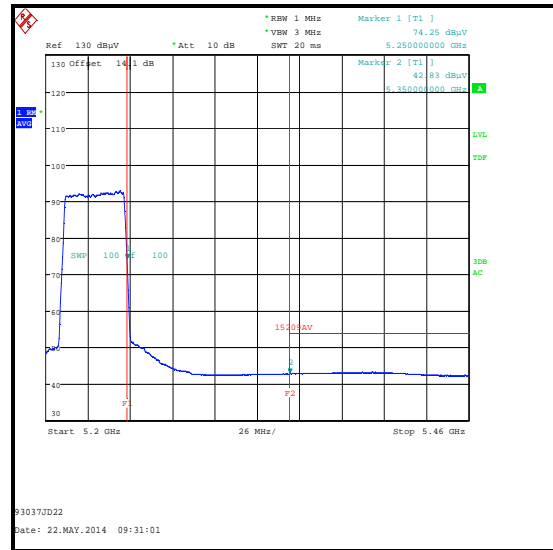
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Results: Omnidirectional Antenna / 45 MHz Channel / 256QAM / Peak**

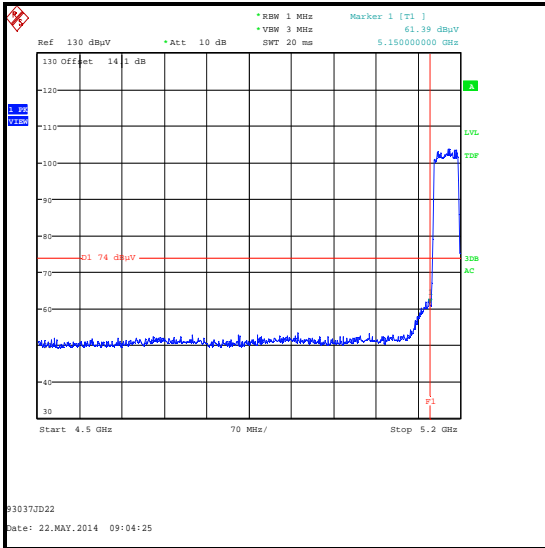
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 61.4 | 74.0 | 12.6 | Complied |
| 5350 | 51.9 | 74.0 | 22.1 | Complied |
| 5351.667 | 53.4 | 74.0 | 20.6 | Complied |

Results: Omnidirectional Antenna / 45 MHz Channel / 256QAM / Average

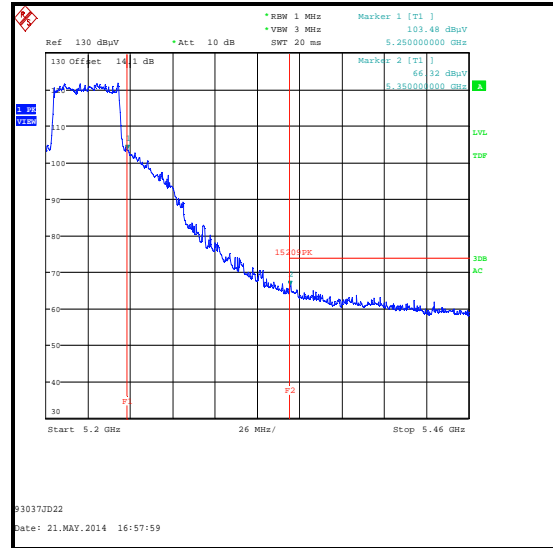
| Frequency (MHz) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|----------------------|----------------------|-------------|----------|
| 5150 | 52.5 | 54.0 | 1.5 | Complied |
| 5350 | 42.9 | 54.0 | 11.1 | Complied |

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)

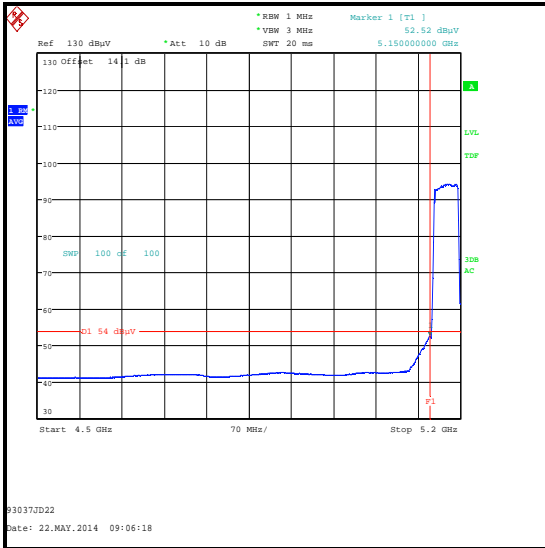
Results: Omnidirectional Antenna / 45 MHz Channel / 256QAM



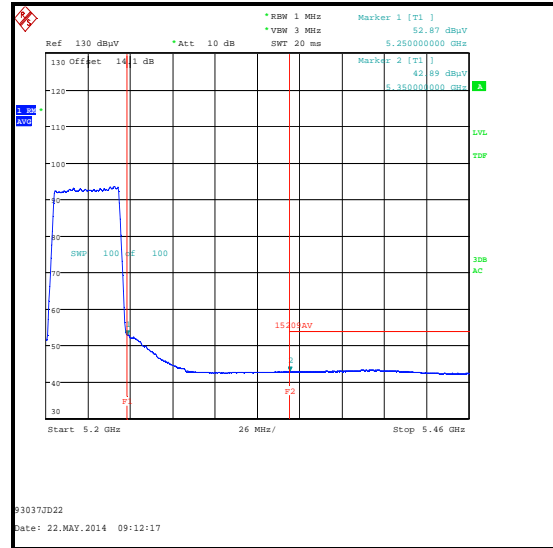
Lower Band Edge / Peak



Upper Band Edge / Peak



Lower Band Edge / Average



Upper Band Edge / Average

Transmitter Band Edge Radiated Emissions (5.15-5.25 GHz band operation) (continued)**Test Equipment Used:**

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|------------------|-----------------|------------|------------|-----------------------|------------------------|
| A253 | Antenna | Flann Microwave | 12240-20 | 128 | 14 Nov 2014 | 12 |
| A1393 | Attenuator | Huber & Suhner | 6820.17.B | 757456 | 20 May 2015 | 12 |
| A1867 | Attenuator | Hewlett Packard | 8491A | 16823 | Calibrated before use | - |
| A1396 | Attenuator | Huber & Suhner | 6810.17.B | 757987 | 02 May 2015 | 12 |
| A1534 | Pre Amplifier | Hewlett Packard | 8449B | 3008A00405 | 18 May 2015 | 12 |
| K0002 | 3m RSE Chamber | Rainford EMC | N/A | N/A | 14 Nov 2014 | 12 |
| G0607 | Signal Generator | Rohde & Schwarz | SMU 200A | 100943 | 18 July 2016 | 36 |
| K0001 | 5m RSE Chamber | Rainford EMC | N/A | N/A | 26 Nov 2014 | 12 |
| M1630 | Test Receiver | Rohde & Schwarz | ESU 40 | 100233 | 13 Mar 2015 | 12 |
| M1656 | Thermohygrometer | JM Handelspunkt | 30.5015.13 | Not stated | 14 Mar 2015 | 12 |

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

| Measurement Type | Range | Confidence Level (%) | Calculated Uncertainty |
|-----------------------------|----------------------|-----------------------------|-------------------------------|
| Conducted Output Power | 5.15 GHz to 5.25 GHz | 95% | ±0.76 dB |
| Power Spectral Density | 5.15 GHz to 5.25 GHz | 95% | ±1.13 dB |
| Occupied Bandwidth | 5.15 GHz to 5.25 GHz | 95% | ±3.92 % |
| Radiated Spurious Emissions | 30 MHz to 1 GHz | 95% | ±5.65 dB |
| Radiated Spurious Emissions | 1 GHz to 40 GHz | 95% | ±2.94 dB |

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

7. Report Revision History

| Version Number | Revision Details | | |
|----------------|------------------|--------|--|
| | Page No(s) | Clause | Details |
| 1.0 | - | - | Initial Version |
| 2.0 | 11 All | - | Removed references to 6' parabolic antenna Changed draft FCC KDB 789033 references to FCC KDB 789033 D02 General UNII Test Procedures New Rules v01, June 6 2014 |

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