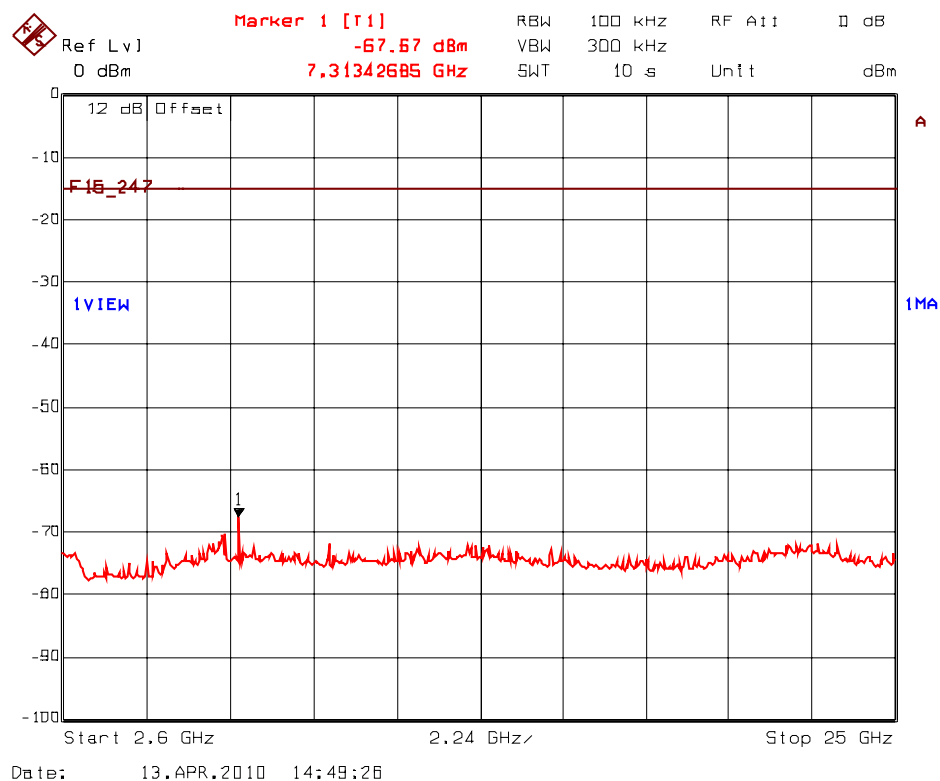


Plot 5.8.4.2.4. Spurious RF Conducted Emissions
Transmitter Frequency: 2440 MHz, High Power



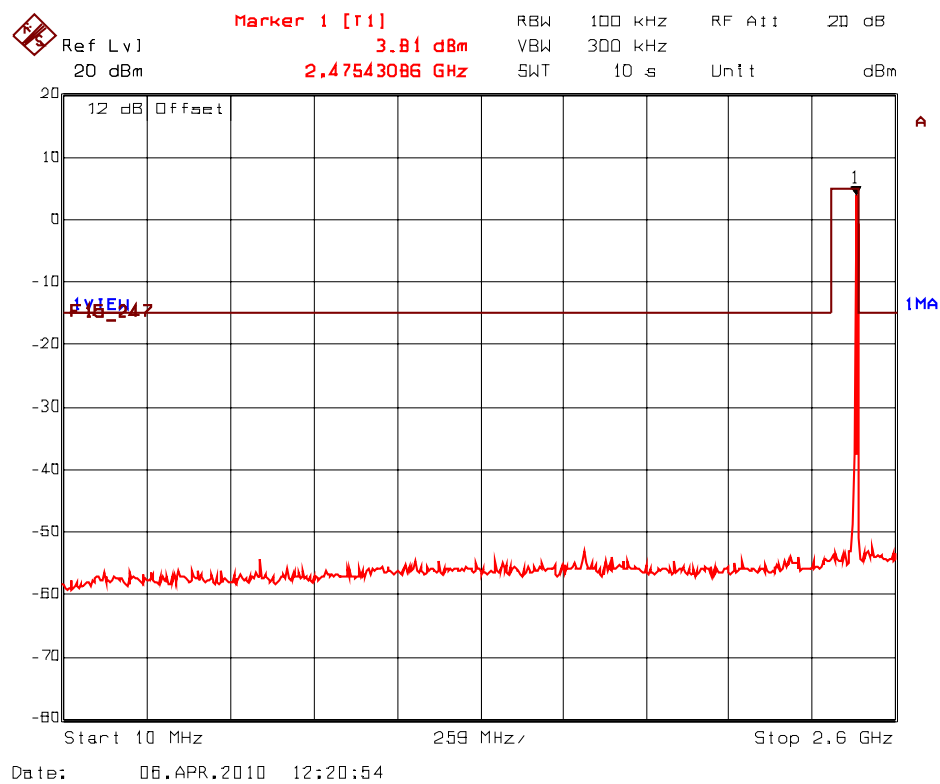
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Plot 5.8.4.2.5. Spurious RF Conducted Emissions
Transmitter Frequency: 2475 MHz, High Power



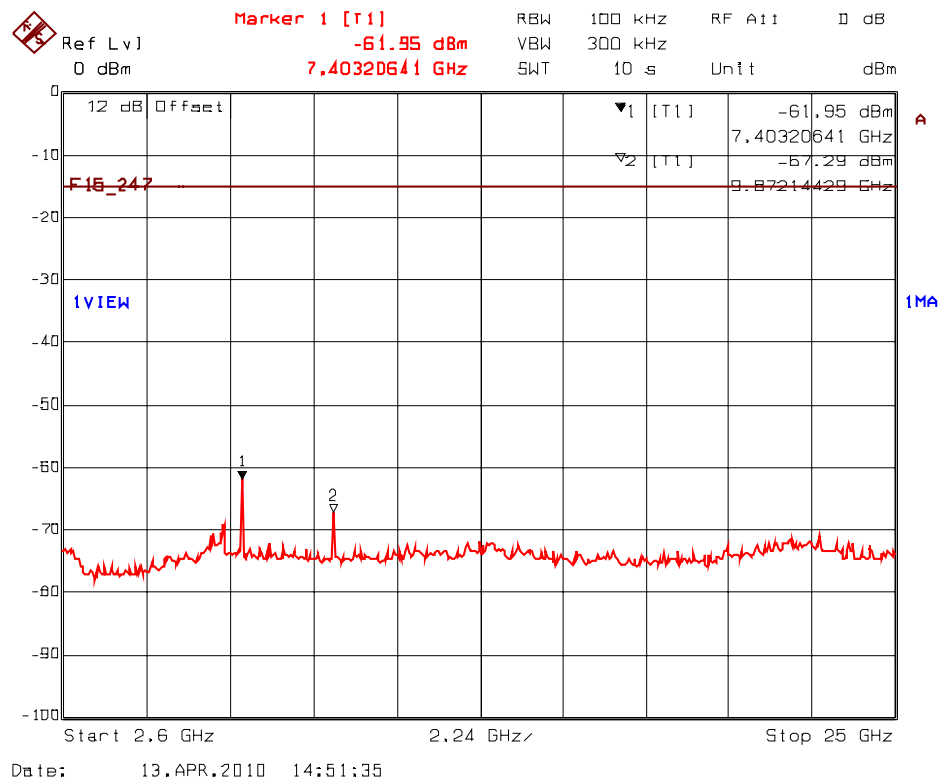
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Plot 5.8.4.2.6. Spurious RF Conducted Emissions
 Transmitter Frequency: 2475 MHz, High Power



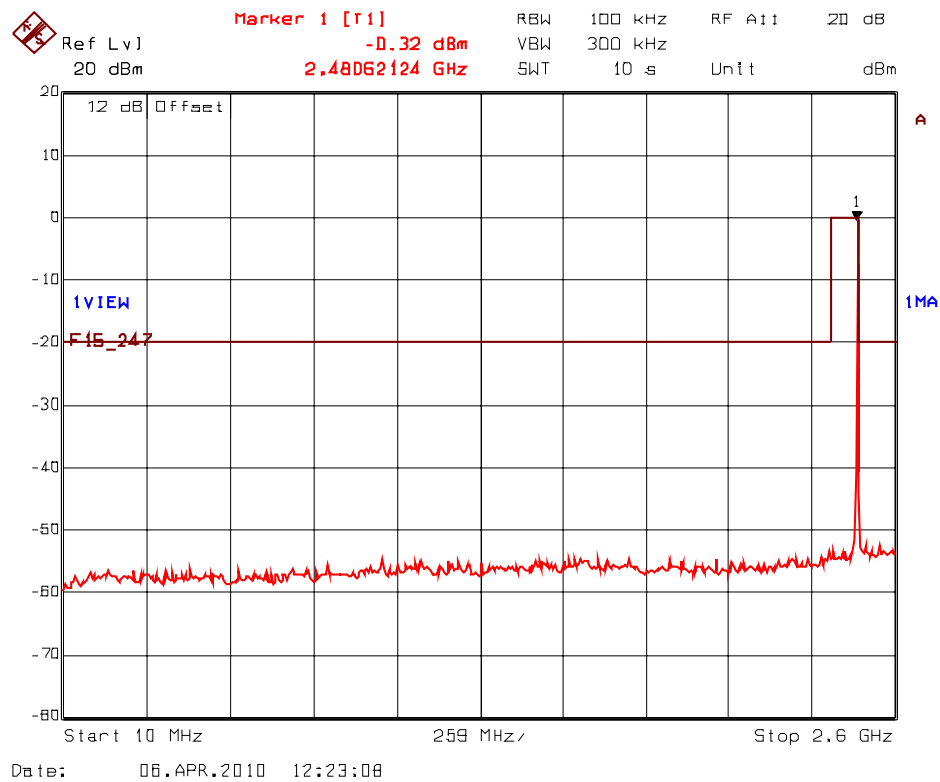
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Plot 5.8.4.2.7. Spurious RF Conducted Emissions
Transmitter Frequency: 2480 MHz, High Power



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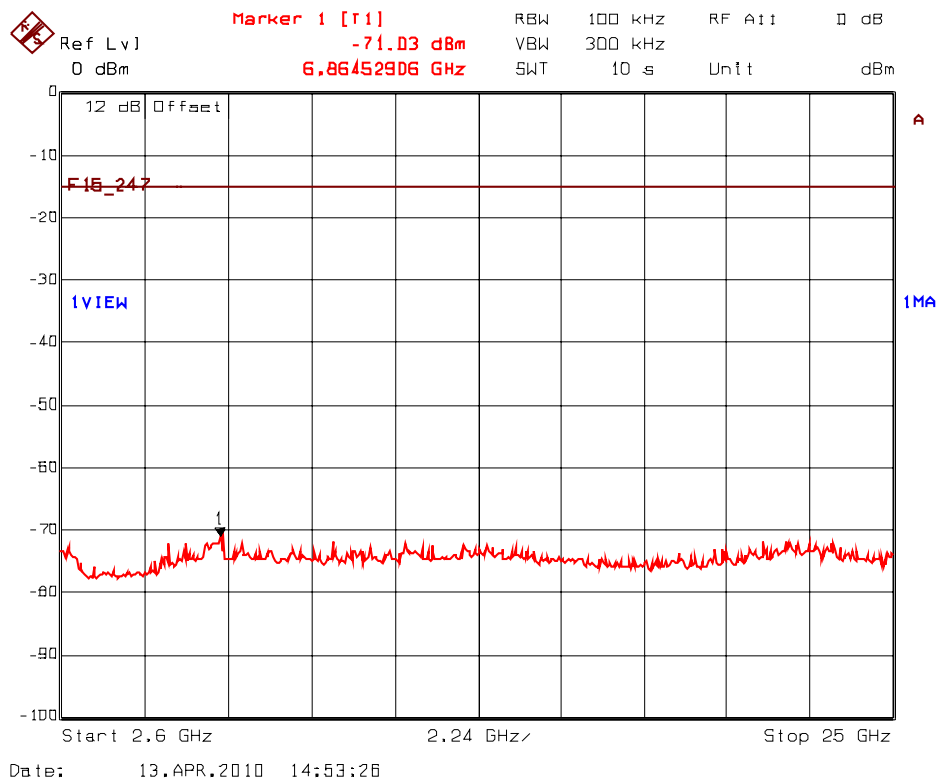
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

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Plot 5.8.4.2.8. Spurious RF Conducted Emissions
 Transmitter Frequency: 2480 MHz, High Power



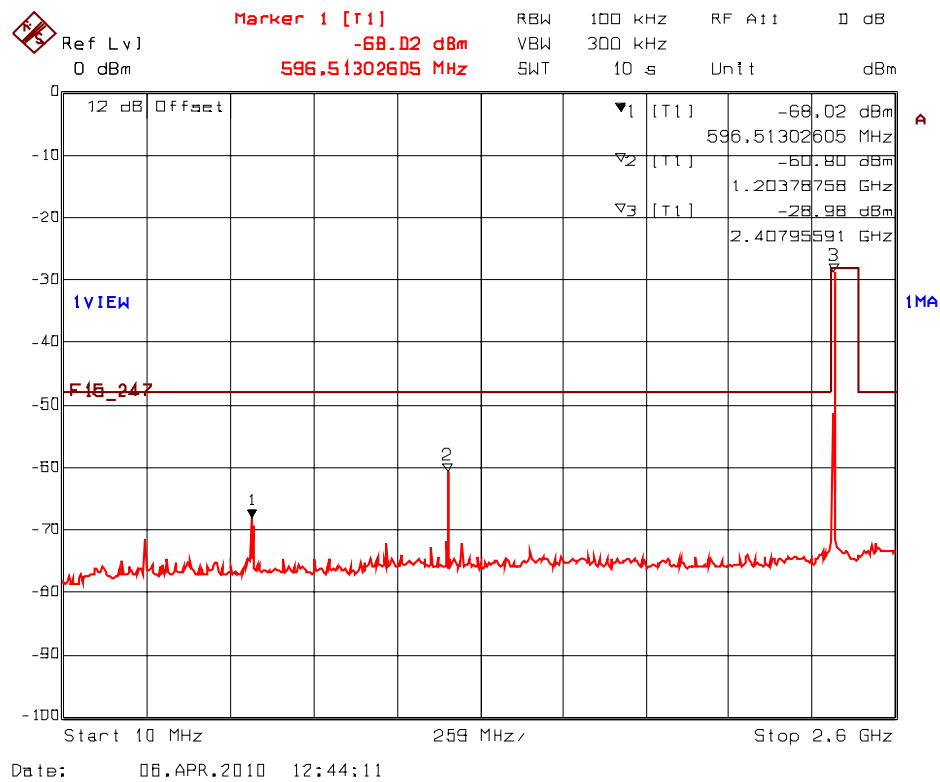
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Plot 5.8.4.2.9. Spurious RF Conducted Emissions
 Transmitter Frequency: 2405 MHz, Low Power



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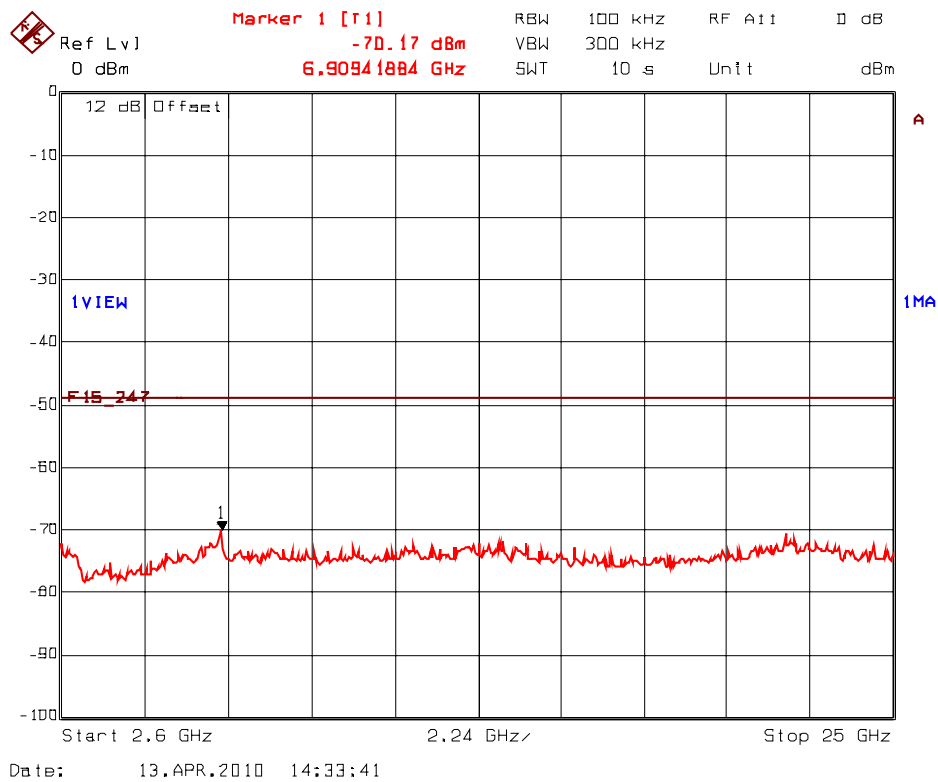
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

File #: DIGI-028Q1F15C247

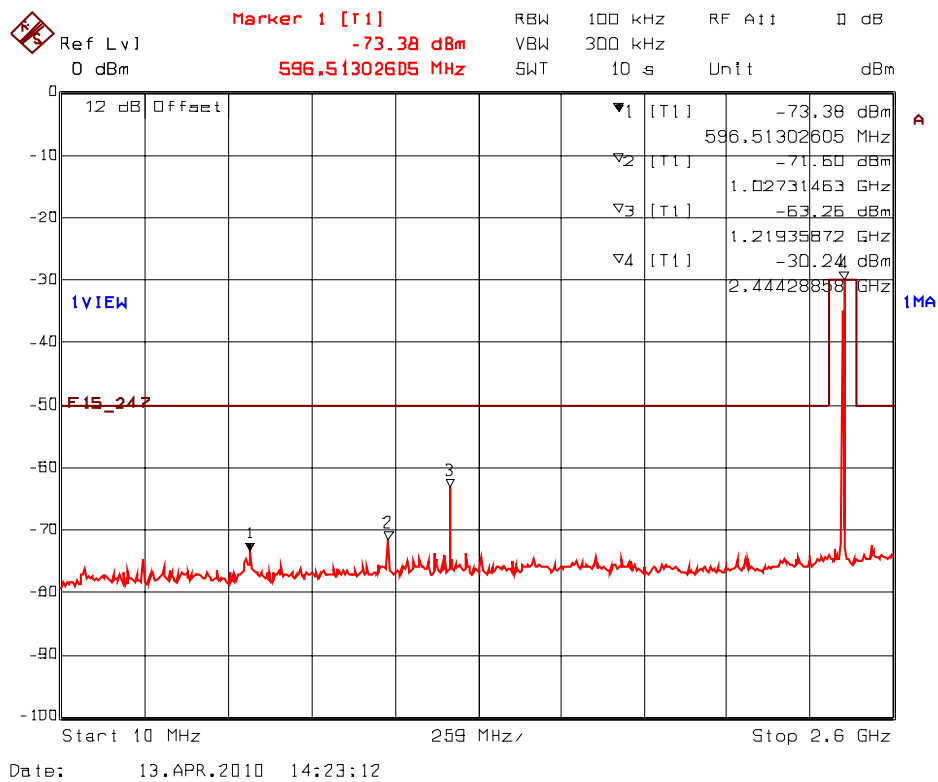
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Plot 5.8.4.2.10. Spurious RF Conducted Emissions
Transmitter Frequency: 2405 MHz, Low Power



Plot 5.8.4.2.11. Spurious RF Conducted Emissions
 Transmitter Frequency: 2440 MHz, Low Power



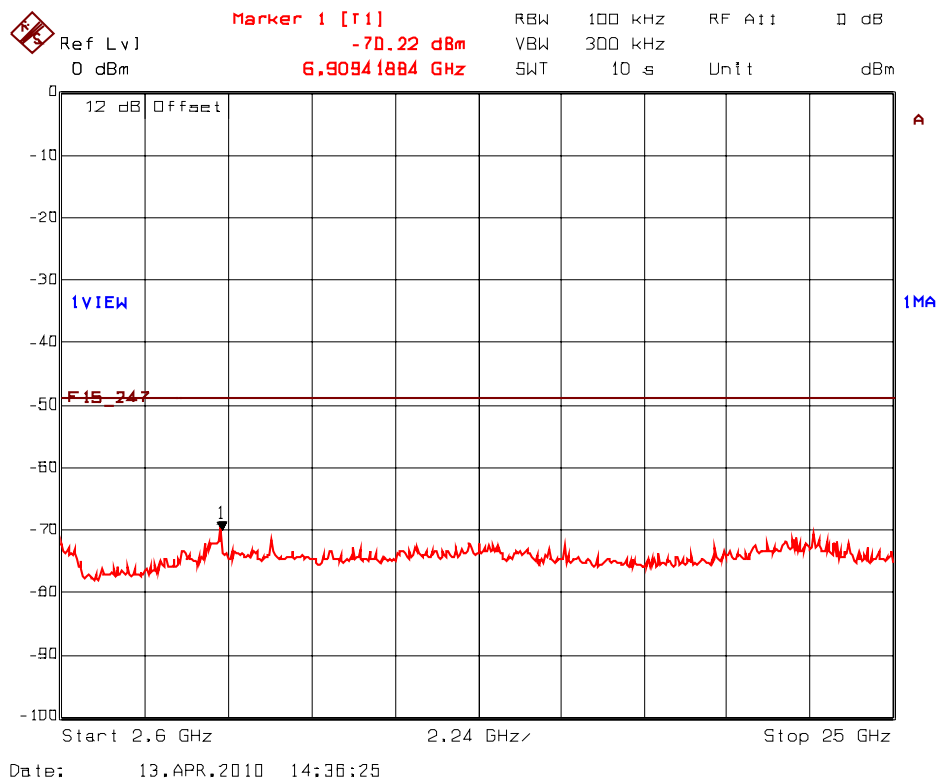
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Plot 5.8.4.2.12. Spurious RF Conducted Emissions
 Transmitter Frequency: 2440 MHz, Low Power



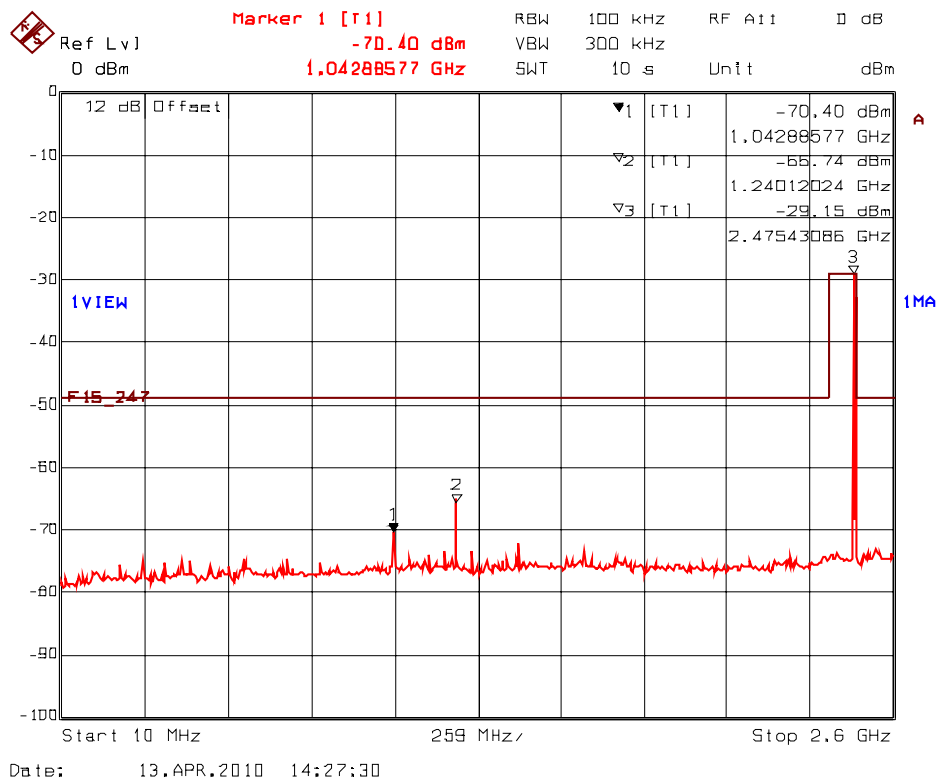
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Plot 5.8.4.2.13. Spurious RF Conducted Emissions
 Transmitter Frequency: 2475 MHz, Low Power



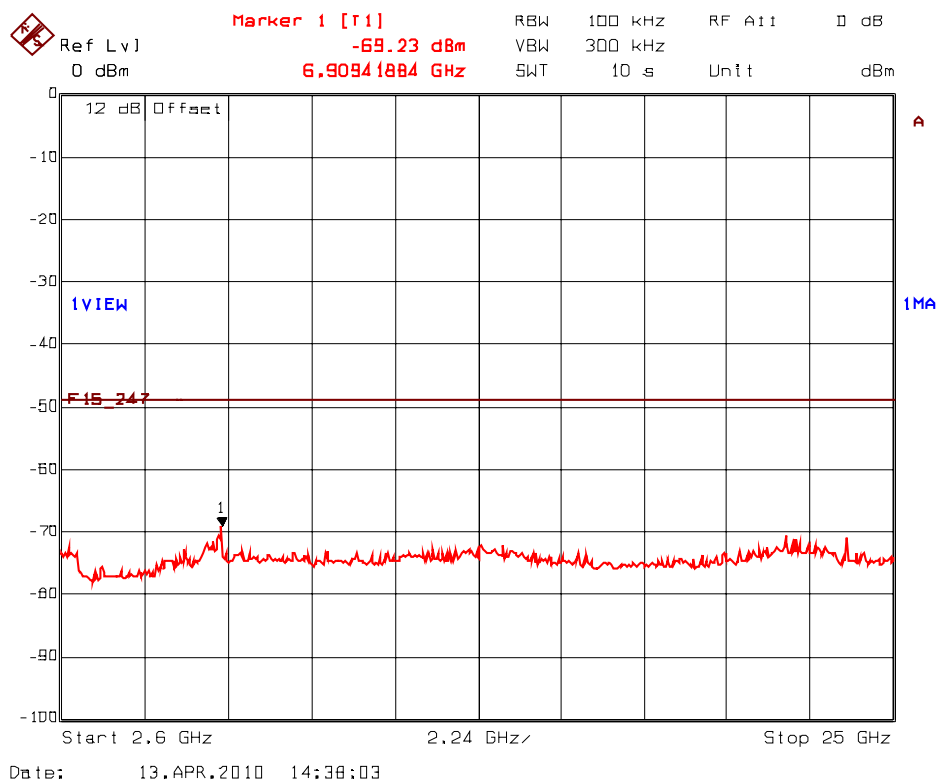
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Plot 5.8.4.2.14. Spurious RF Conducted Emissions
 Transmitter Frequency: 2475 MHz, Low Power



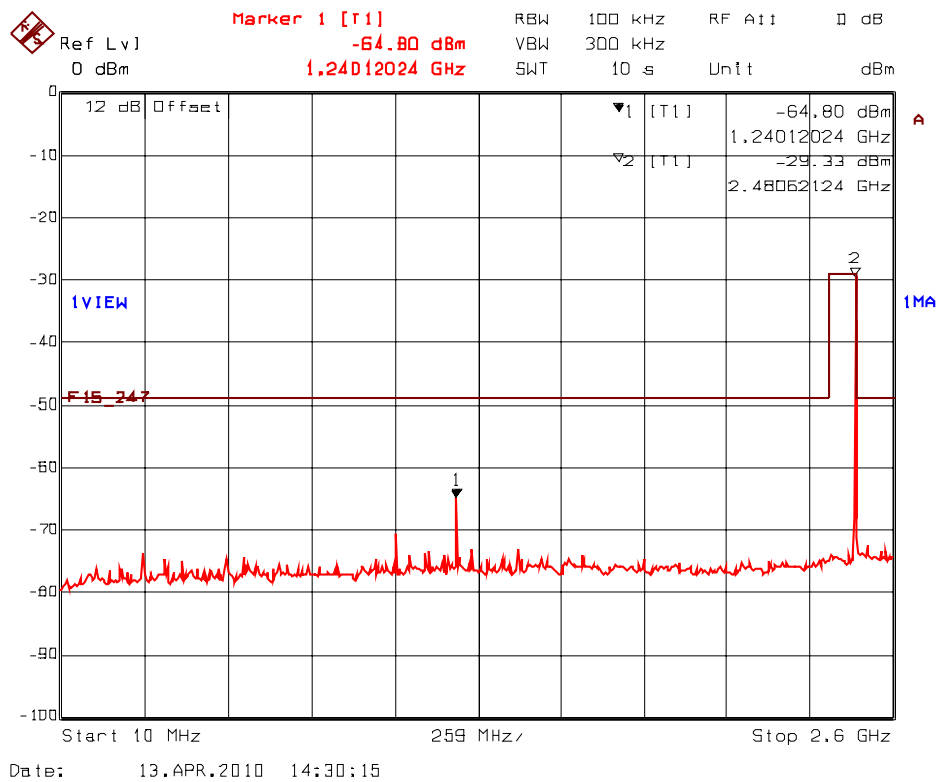
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Plot 5.8.4.2.15. Spurious RF Conducted Emissions
Transmitter Frequency: 2480 MHz, Low Power



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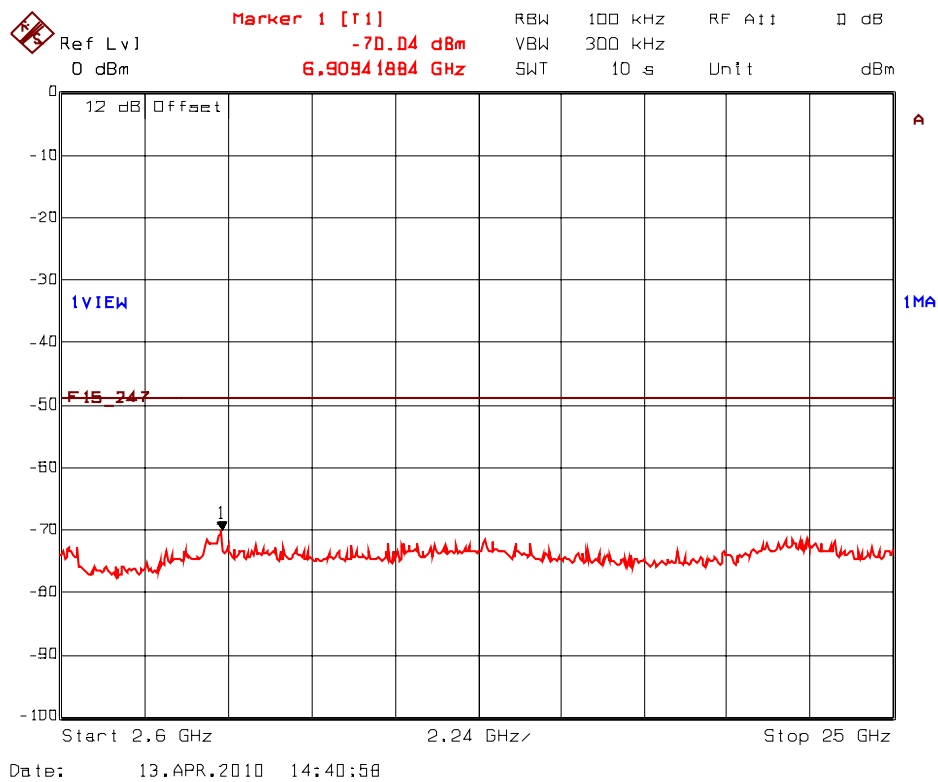
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

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Plot 5.8.4.2.16. Spurious RF Conducted Emissions
 Transmitter Frequency: 2480 MHz, Low Power



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5.9. TRANSMITTER SPURIOUS RADIATED EMISSIONS AT 3 METERS [§§ 15.247(d), 15.209 & 15.205]

5.9.1. Limit(s)

§ 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Section 15.205(a) - Restricted Bands of Operation

| MHz | MHz | MHz | GHz |
|--------------------------------|---------------------|---------------|------------------|
| 0.090–0.110 | 16.42–16.423 | 399.9–410 | 4.5–5.15 |
| ¹ 0.495–0.505 | 16.69475–16.69525 | 608–614 | 5.35–5.46 |
| 2.1735–2.1905 | 16.80425–16.80475 | 960–1240 | 7.25–7.75 |
| 4.125–4.128 | 25.5–25.67 | 1300–1427 | 8.025–8.5 |
| 4.17725–4.17775 | 37.5–38.25 | 1435–1626.5 | 9.0–9.2 |
| 4.20725–4.20775 | 73–74.6 | 1645.5–1646.5 | 9.3–9.5 |
| 6.215–6.218 | 74.8–75.2 | 1660–1710 | 10.6–12.7 |
| 6.26775–6.26825 | 108–121.94 | 1718.8–1722.2 | 13.25–13.4 |
| 6.31175–6.31225 | 123–138 | 2200–2300 | 14.47–14.5 |
| 8.291–8.294 | 149.9–150.05 | 2310–2390 | 15.35–16.2 |
| 8.362–8.366 | 156.52475–156.52525 | 2483.5–2500 | 17.7–21.4 |
| 8.37625–8.38675 | 156.7–156.9 | 2655–2900 | 22.01–23.12 |
| 8.41425–8.41475 | 162.0125–167.17 | 3260–3267 | 23.6–24.0 |
| 12.29–12.293 | 167.72–173.2 | 3332–3339 | 31.2–31.8 |
| 12.51975–12.52025 | 240–285 | 3345.8–3358 | 36.43–36.5 |
| 12.57675–12.57725 | 322–335.4 | 3600–4400 | (²) |
| 13.36–13.41 | | | |

¹ Until February 1, 1999, this restricted band shall be 0.490–0.510 MHz.

² Above 38.6

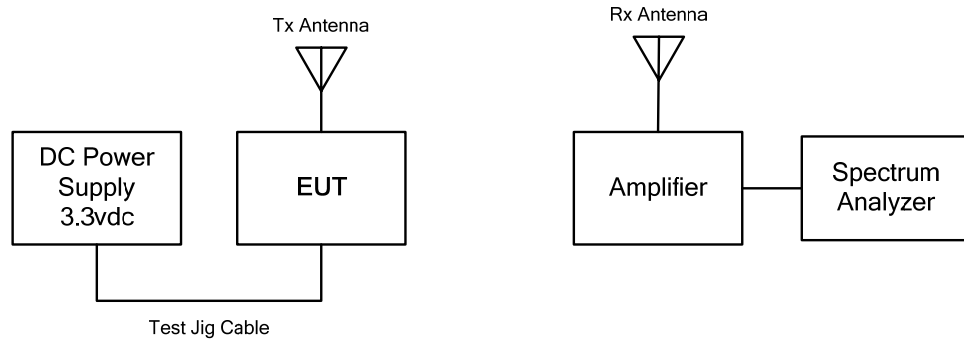
Section 15.209(a) – Field Strength Limits within Restricted Frequency Bands –

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009 - 0.490 | 2,400 / F (kHz) | 300 |
| 0.490 - 1.705 | 24,000 / F (kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 – 960 | 200 | 3 |
| Above 960 | 500 | 3 |

5.9.2. Method of Measurements

KDB Publication No. 558074: Guidance on Measurements for Digital Transmission Systems (47 CFR 15.247) and ANSI C63.10.

5.9.3. Test Arrangement



5.9.4. Test Data

Remarks:

- All spurious emissions that are in excess of 20 dB below the specified limit shall be recorded.
- EUT shall be tested in three orthogonal positions.
- The following test results are the worst-case measurements.
- A duty cycle correction factor of 27% (-11.37dB) shall be applied to a measurement made with an average detector.
- Band-edges compliance condition: EUT connected to antennas via antenna feedline must have a minimum cable loss as specified in the test configurations and the following table.

| Antenna Type | Maximum Antenna Gain (dBi) | Minimum Cable Loss (dB) | |
|---------------------------------|----------------------------|-------------------------|----------|
| | | 2405 - 2475 MHz | 2480 MHz |
| Dipole Antenna | 2.1 | 0.62 | 0.62 |
| Omni Directional Antenna | 15 | 0.62 | 5.12 |
| Yagi Antenna | 15 | 0.62 | 9.12 |
| Panel Antenna | 19 | 0.62 | 13.62 |
| Integrated PCB/Monopole Antenna | 1.5 | N/A | N/A |

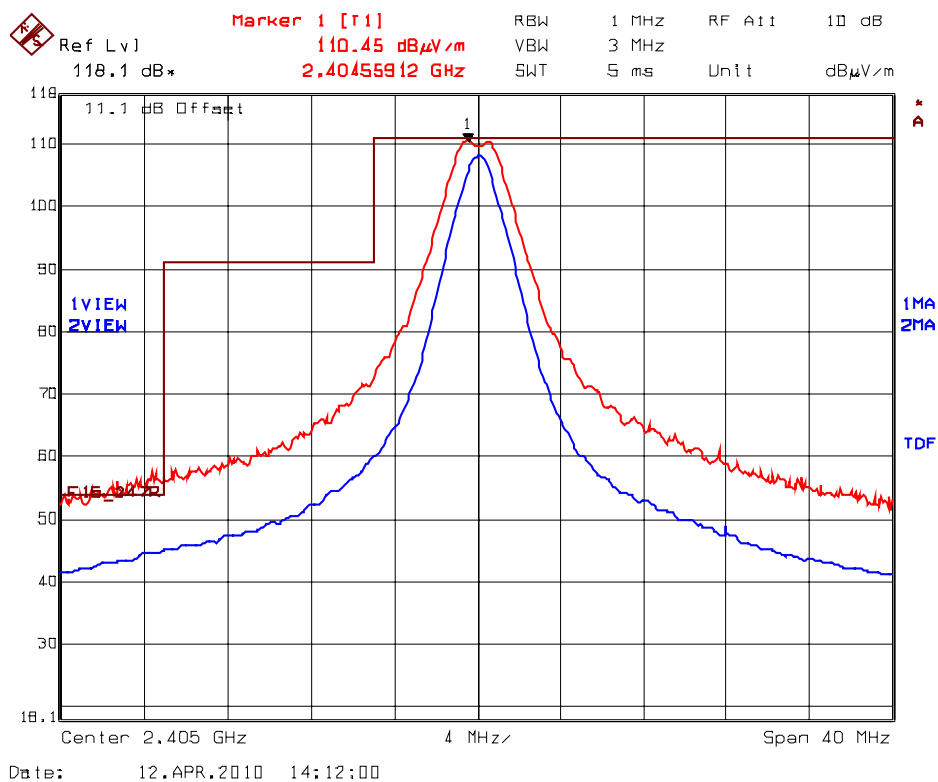
5.9.4.1. EUT with Dipole Antenna (2.1 dBi Gain with 0.62 dB Cable Loss)

| Fundamental Frequency: 2405 MHz | | | | | | | |
|---------------------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: 30 MHz – 25 GHz | | | | | | | |
| Frequency (MHz) | RF Peak Level (dBμV/m) | RF Avg Level (dBμV/m) | Antenna Plane (H/V) | Limit 15.209 (dBμV/m) | Limit 15.247 (dBμV/m) | Margin (dB) | Pass/Fail |
| 2405 | 103.55 | -- | V | -- | -- | — | -- |
| 2405 | 110.45 | -- | H | -- | -- | — | -- |
| 30 - 25000 | * | * | V/H | * | 90.5 | * | Pass |

*The spurious emissions from intentional radiators are more than 20 dB below the specified limit.

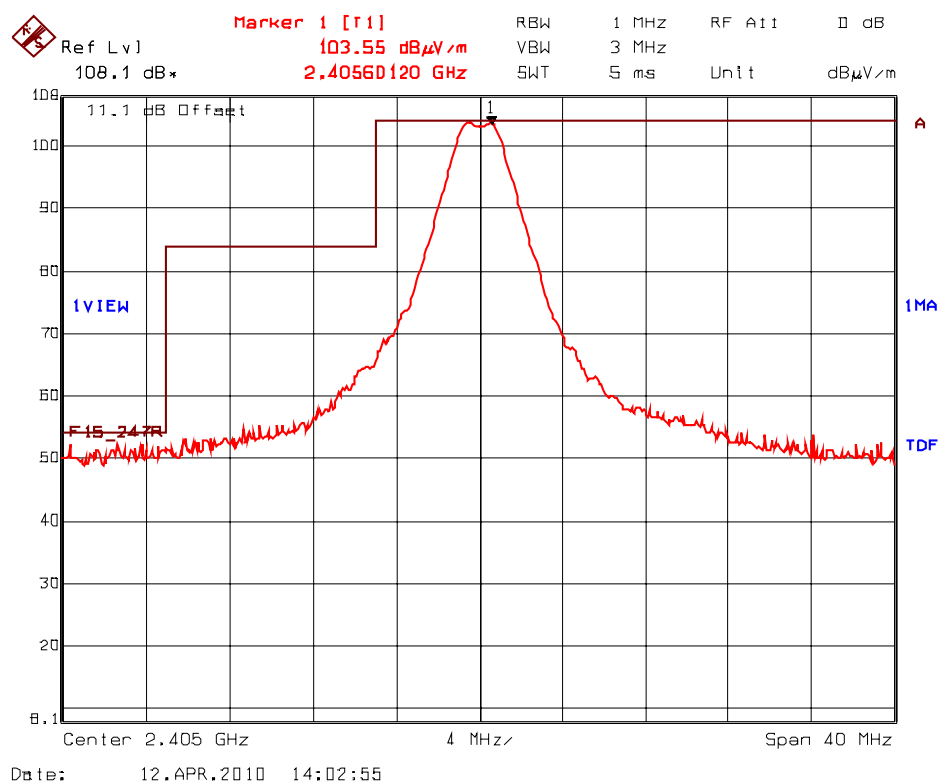
See the following test data plots for band-edge emissions.

Plot 5.9.4.1.1. Band-Edge RF Radiated Emissions @ 3 m
Low End of Frequency Band, 2405 MHz
Rx Antenna Orientation: Horizontal



Trace 1: RBW = 1 MHz, VBW = 3 MHz
Trace 2: RBW = 1 MHz, VBW = 10 Hz

Plot 5.9.4.1.2. Band-Edge RF Radiated Emissions @ 3 m
 Low End of Frequency Band, 2405 MHz
 Rx Antenna Orientation: Vertical



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| Fundamental Frequency: 2440 MHz | | | | | | | |
|---------------------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: 30 MHz – 25 GHz | | | | | | | |
| Frequency (MHz) | RF Peak Level (dBµV/m) | RF Avg Level (dBµV/m) | Antenna Plane (H/V) | Limit 15.209 (dBµV/m) | Limit 15.247 (dBµV/m) | Margin (dB) | Pass/Fail |
| 2440 | 104.05 | -- | V | -- | -- | — | -- |
| 2440 | 110.24 | -- | H | -- | -- | — | -- |
| 30 - 25000 | * | * | V/H | * | 90.2 | * | Pass |

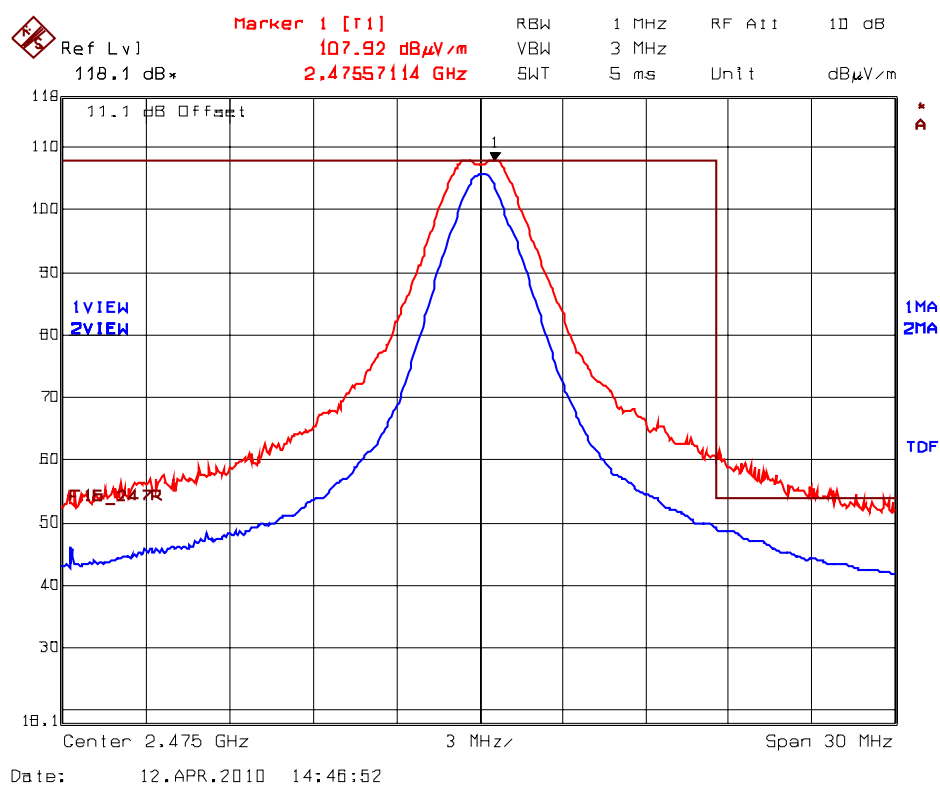
*The spurious emissions from intentional radiators are more than 20 dB below the specified limit.

| Fundamental Frequency: 2475 MHz | | | | | | | |
|---------------------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: 30 MHz – 25 GHz | | | | | | | |
| Frequency (MHz) | RF Peak Level (dBµV/m) | RF Avg Level (dBµV/m) | Antenna Plane (H/V) | Limit 15.209 (dBµV/m) | Limit 15.247 (dBµV/m) | Margin (dB) | Pass/Fail |
| 2475 | 105.15 | -- | V | -- | -- | — | -- |
| 2475 | 107.92 | -- | H | -- | -- | — | -- |
| 30 - 25000 | * | * | V/H | * | 87.9 | * | Pass |

*The spurious emissions from intentional radiators are more than 20 dB below the specified limit.

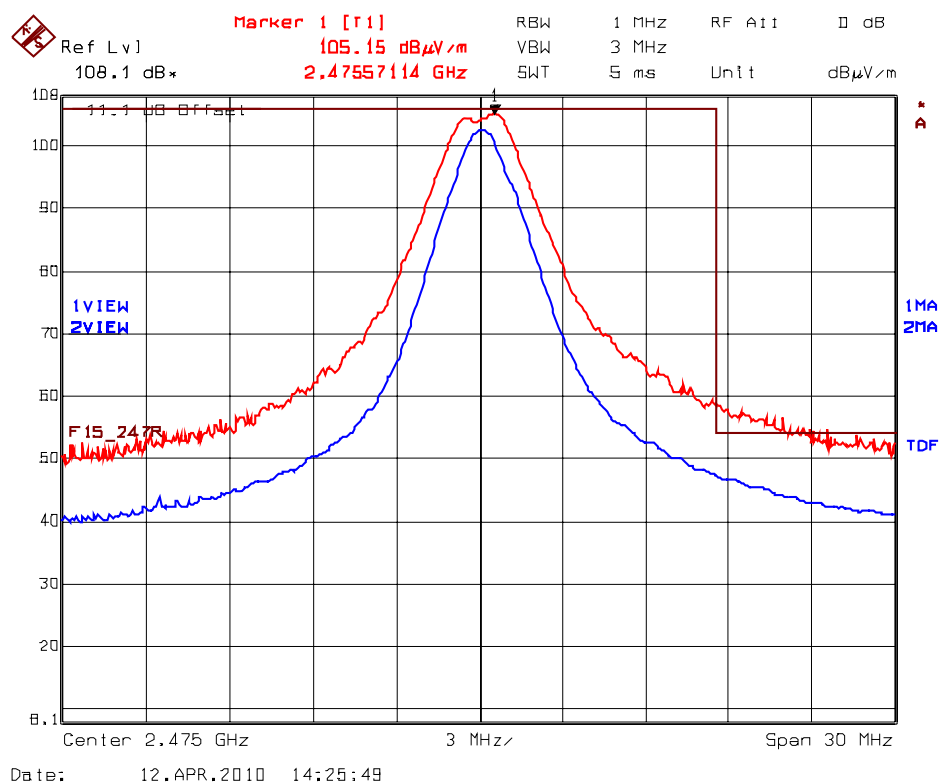
See the following test data plots for band-edge emissions.

Plot 5.9.4.1.3. Band-Edge RF Radiated Emissions @ 3 m
Low End of Frequency Band, 2475 MHz
Rx Antenna Orientation: Horizontal



Trace 1: RBW = 1 MHz, VBW = 3 MHz
Trace 2: RBW = 1 MHz, VBW = 10 Hz

Plot 5.9.4.1.4. Band-Edge RF Radiated Emissions @ 3 m
Low End of Frequency Band, 2475 MHz
Rx Antenna Orientation: Vertical



Trace 1: RBW = 1 MHz, VBW = 3 MHz
Trace 2: RBW = 1 MHz, VBW = 10 Hz

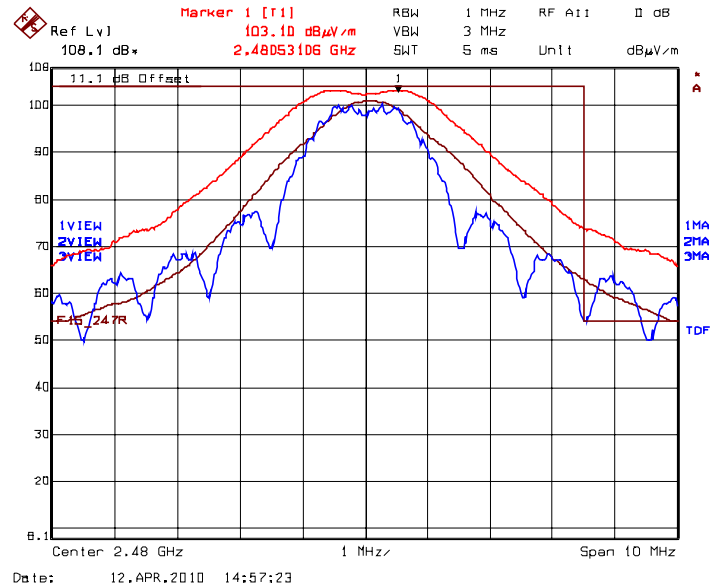
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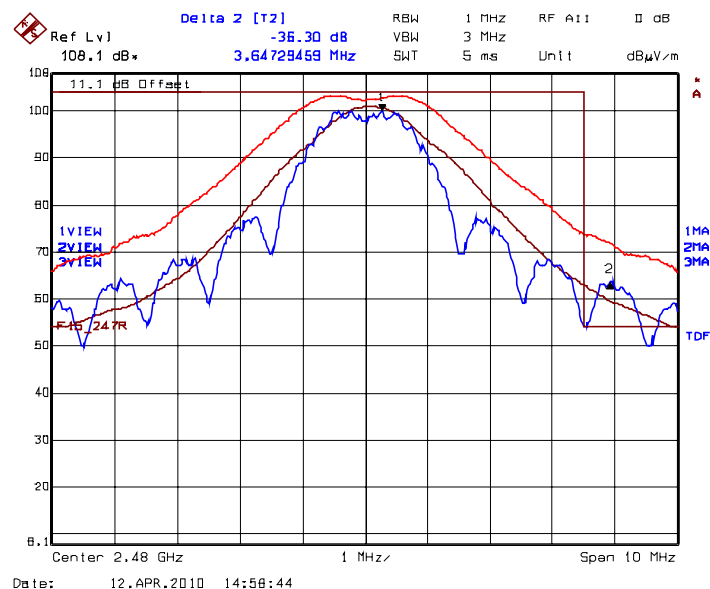
File #: DIGI-028Q1F15C247
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Plot 5.9.4.1.5. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Horizontal



Plot 5.9.4.1.6. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Horizontal



Trace 1: RBW= 1 MHz, VBW= 3 MHz

Trace 2: RBW= 100 kHz, VBW= 300 kHz, Delta (Peak to Band-Edge): 36.30dB

Trace 3: RBW= 1 MHz, VBW= 10 Hz

Peak Band-Edge at 2483.5 MHz: Peak = 103.10 dBμV/m – 36.30 dB = 66.80 dBμV/m (limit 74 dBμV/m)

Average: 62.78 dBμV/m – 11.37dB= 51.41 dBμV/m (limit 54 dBμV/m)

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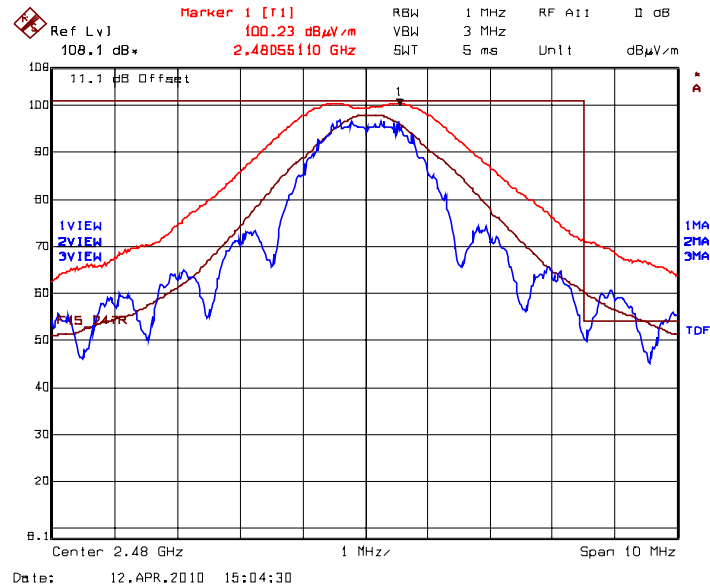
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File #: DIGI-028Q1F15C247

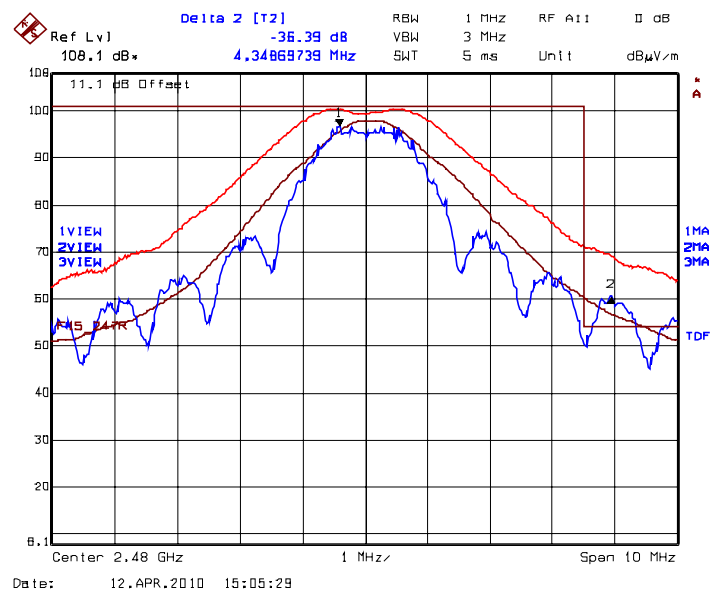
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Plot 5.9.4.1.7. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Vertical



Plot 5.9.4.1.8. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Vertical



Trace 1: RBW = 1 MHz, VBW = 3 MHz

Trace 2: RBW = 100 kHz, VBW = 300 kHz, Delta (Peak to Band-Edge): 36.39 dB

Trace 3: RBW = 1 MHz, VBW = 10 Hz

Peak Band-Edge at 2483.5 MHz: Peak = 100.23 dBμV/m – 36.39 dB = 63.84 dBμV/m (limit 74 dBμV/m)

Average: 60.23 dBμV/m – 11.37 dB = 48.86 dBμV/m (limit 54 dBμV/m)

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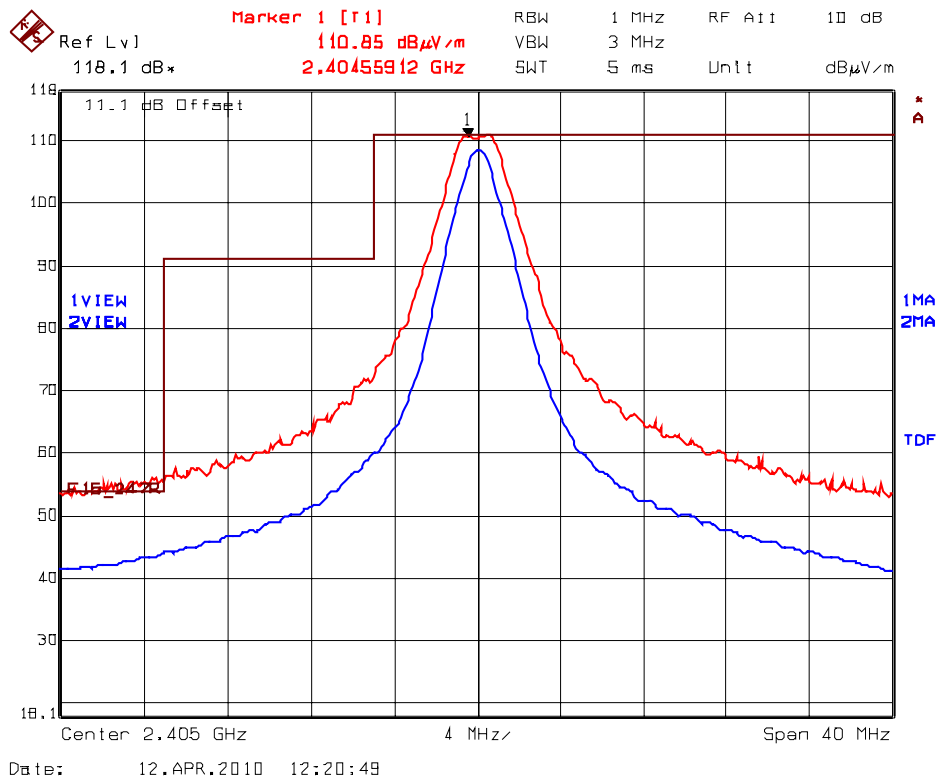
5.9.4.2. EUT with Omni Directional Antenna (15 dBi Gain with 0.62 dB Cable Loss (for 2405-2475 MHz) or 5.12 dB Cable Loss (for 2480MHz))

| Fundamental Frequency: | | 2405 MHz | | | | | |
|------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: | | 30 MHz – 25 GHz | | | | | |
| Frequency (MHz) | RF Peak Level (dBµV/m) | RF Avg Level (dBµV/m) | Antenna Plane (H/V) | Limit 15.209 (dBµV/m) | Limit 15.247 (dBµV/m) | Margin (dB) | Pass/Fail |
| 2405 | 116.47 | — | V | -- | -- | — | -- |
| 2405 | 110.85 | -- | H | -- | -- | — | -- |
| 30 -25000 | * | * | V/H | * | 96.5 | * | Pass |

*The spurious emissions from intentional radiators are more than 20 dB below the specified limit.

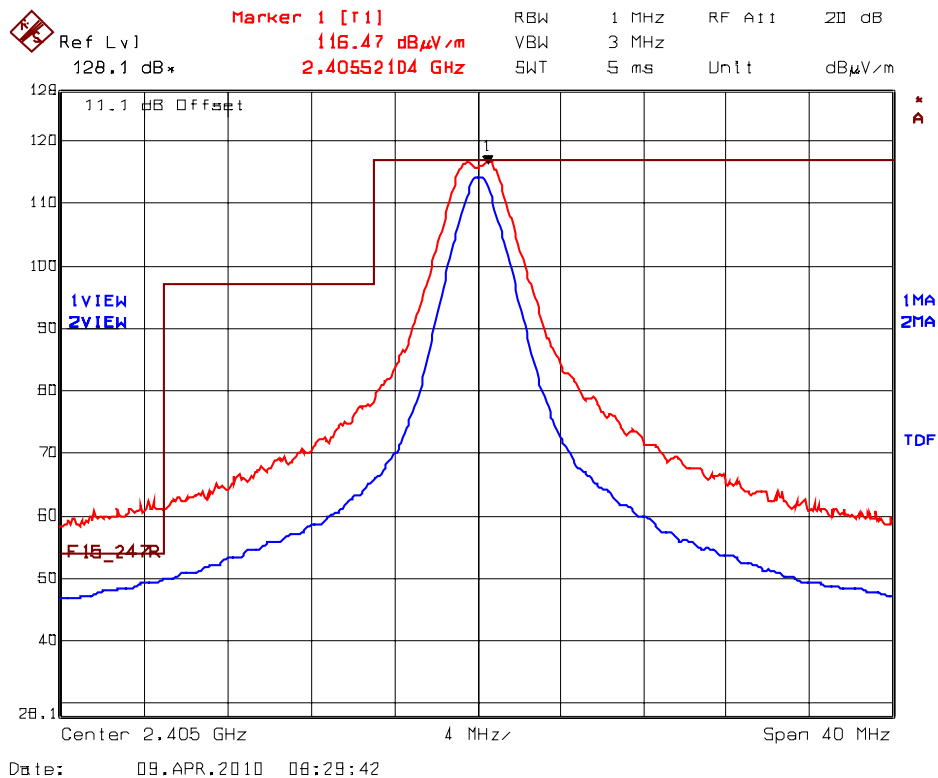
See the following test data plots for band-edge emissions.

Plot 5.9.4.2.1. Band-Edge RF Radiated Emissions @ 3 m
Low End of Frequency Band, 2405 MHz
Rx Antenna Orientation: Horizontal



Trace 1: RBW = 1 MHz, VBW = 3 MHz
Trace 2: RBW = 1 MHz, VBW = 10 Hz

Plot 5.9.4.2.2. Band-Edge RF Radiated Emissions @ 3 m
 Low End of Frequency Band, 2405 MHz
 Rx Antenna Orientation: Vertical



Trace 1: RBW = 1 MHz, VBW = 3 MHz
 Trace 2: RBW = 1 MHz, VBW = 10 Hz

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| Fundamental Frequency: | | 2440 MHz | | | | | |
|------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: | | 30 MHz – 25 GHz | | | | | |
| Frequency (MHz) | RF Peak Level (dBµV/m) | RF Avg Level (dBµV/m) | Antenna Plane (H/V) | Limit 15.209 (dBµV/m) | Limit 15.247 (dBµV/m) | Margin (dB) | Pass/Fail |
| 2440 | 115.89 | -- | V | -- | -- | -- | -- |
| 2440 | 110.55 | -- | H | -- | -- | -- | -- |
| 7320 | 57.50 | 35.46 | V | 54.0 | 95.9 | -18.5 | Pass* |
| 7320 | 57.76 | 36.12 | H | 54.0 | 95.9 | -17.9 | Pass* |

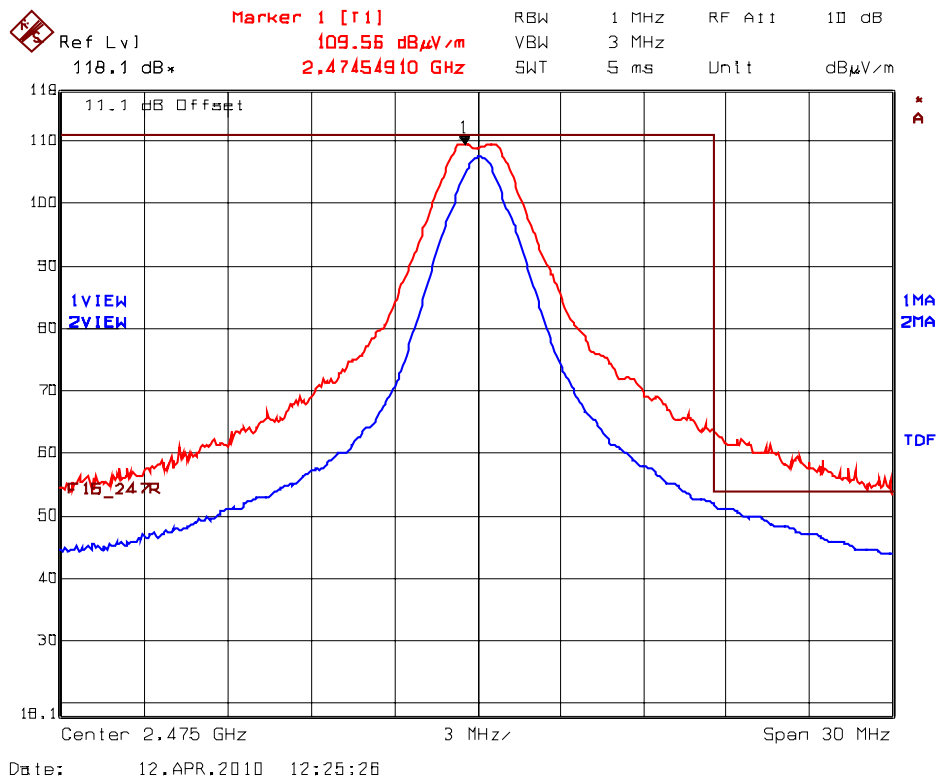
*Field strength of emissions appearing within restricted frequency bands shall not exceed the limits in § 15.209.

| Fundamental Frequency: | | 2475 MHz | | | | | |
|------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: | | 30 MHz – 25 GHz | | | | | |
| Frequency (MHz) | RF Peak Level (dBµV/m) | RF Avg Level (dBµV/m) | Antenna Plane (H/V) | Limit 15.209 (dBµV/m) | Limit 15.247 (dBµV/m) | Margin (dB) | Pass/Fail |
| 2475 | 113.08 | -- | V | -- | -- | -- | -- |
| 2475 | 109.56 | -- | H | -- | -- | -- | -- |
| 7425 | 59.08 | 36.78 | V | 54.0 | 93.1 | -17.2 | Pass* |
| 7425 | 57.42 | 35.01 | H | 54.0 | 93.1 | -19.0 | Pass* |

*Field strength of emissions appearing within restricted frequency bands shall not exceed the limits in § 15.209.

See the following test data plots for band-edge emissions.

Plot 5.9.4.2.3. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2475 MHz
Rx Antenna Orientation: Horizontal



Trace 1: RBW = 1 MHz, VBW = 3 MHz
Trace 2: RBW = 1 MHz, VBW = 10 Hz

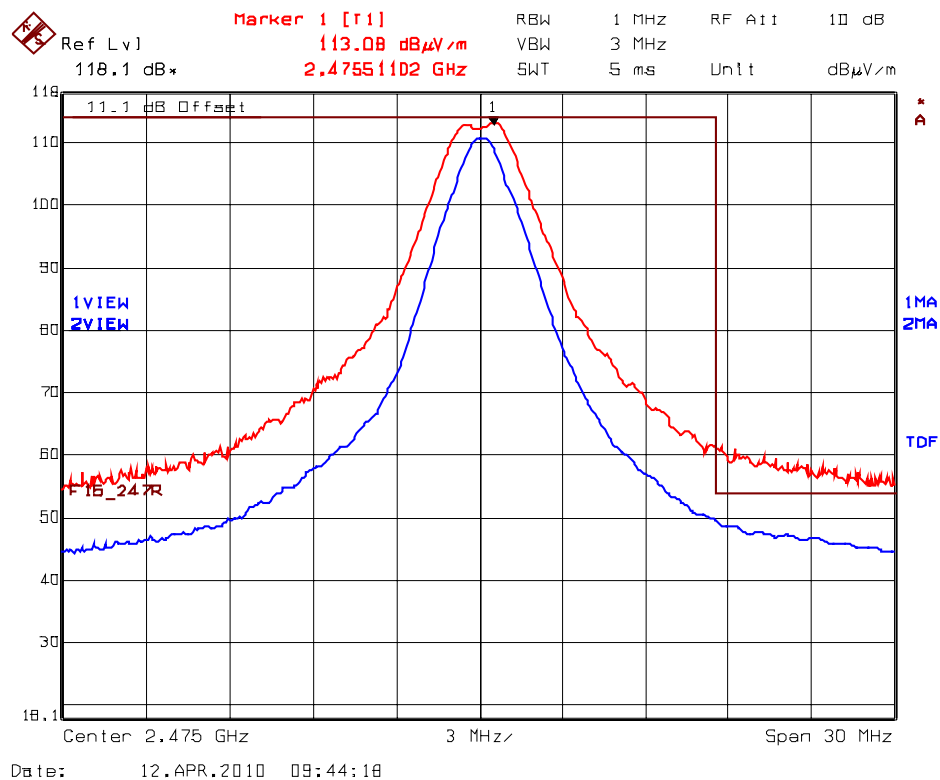
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3000 Bristol Circle, Oakville, Ontario, Canada L6H 6G4
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

File #: DIGI-028Q1F15C247
June 14, 2010

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Plot 5.9.4.2.4. Band-Edge RF Radiated Emissions @ 3 m
 High End of Frequency Band, 2475 MHz
 Rx Antenna Orientation: Vertical



Trace 1: RBW = 1 MHz, VBW = 3 MHz
 Trace 2: RBW = 1 MHz, VBW = 10 Hz

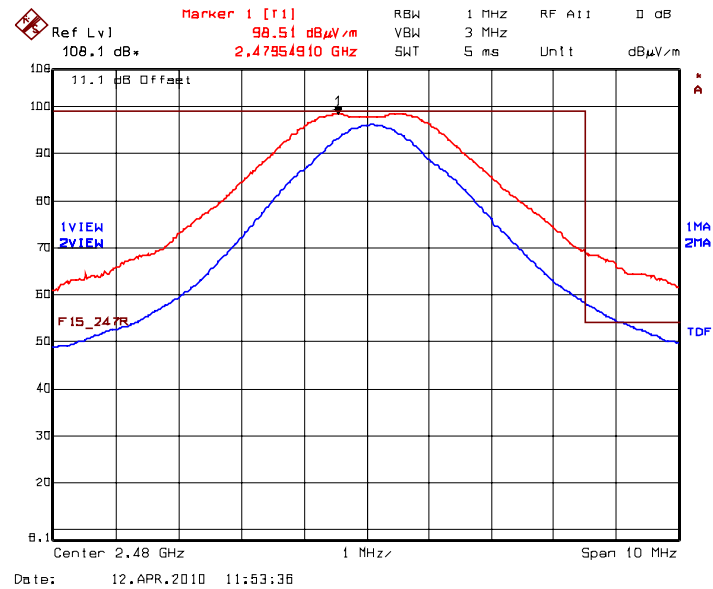
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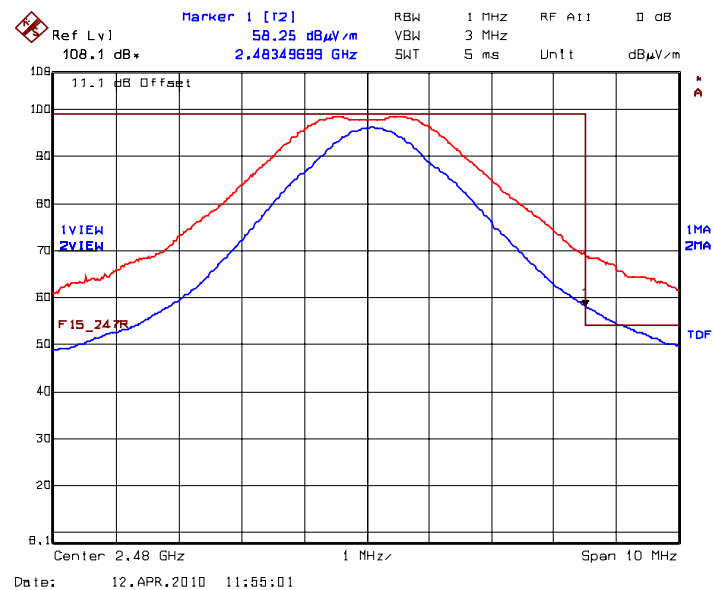
File #: DIGI-028Q1F15C247
 June 14, 2010

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Plot 5.9.4.2.5. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Horizontal



Plot 5.9.4.2.6. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Horizontal



Trace 1: RBW = 1 MHz, VBW = 3 MHz

Trace 2: RBW = 1 MHz, VBW = 10 Hz

Average: 58.25 dBμV/m – 11.37 dB = 46.88 dBμV/m (limit 54 dBμV/m)

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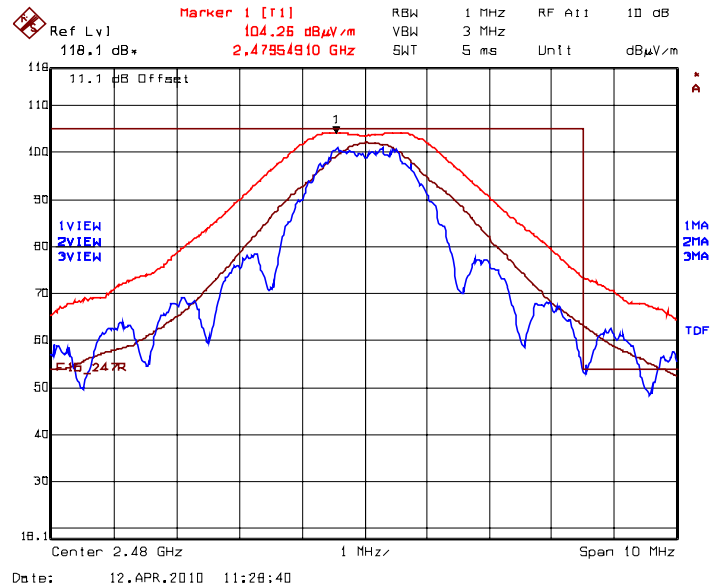
Tel. #: 905-829-1570, Fax. #: 905-829-8050, Email: vic@ultratech-labs.com, Website: <http://www.ultratech-labs.com>

File #: DIGI-028Q1F15C247

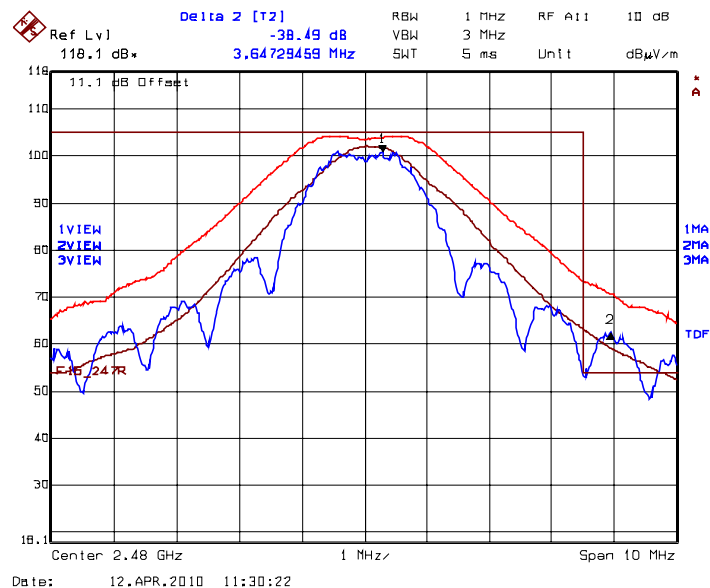
June 14, 2010

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

Plot 5.9.4.2.7. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Vertical



Plot 5.9.4.2.8. Band-Edge RF Radiated Emissions @ 3 m
High End of Frequency Band, 2480 MHz, Rx Antenna Orientation: Vertical



Trace 1: RBW = 1 MHz, VBW = 3 MHz

Trace 2: RBW = 100 kHz, VBW = 300 kHz, Delta (Peak to Band-Edge): 38.49dB

Trace 3: RBW = 1 MHz, VBW = 10 Hz

Peak Band-Edge at 2483.5 MHz: Peak = 104.26 dBμV/m - 38.49 dB = 65.77 dBμV/m (limit 74 dBμV/m)

Average: 63.19 dBμV/m - 11.37 dB = 51.82 dBμV/m (limit 54 dBμV/m)

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5.9.4.3. EUT with Yagi Antenna (15 dBi Gain with 0.62 dB Cable Loss (for 2405-2475 MHz) or 9.12 dB Cable Loss (for 2480 MHz))

| Fundamental Frequency: | | 2405 MHz | | | | | |
|------------------------|------------------------|-----------------------|---------------------|-----------------------|-----------------------|-------------|-----------|
| Test Frequency Range: | | 30 MHz – 25 GHz | | | | | |
| | | | | | | | |
| Frequency (MHz) | RF Peak Level (dBµV/m) | RF Avg Level (dBµV/m) | Antenna Plane (H/V) | Limit 15.209 (dBµV/m) | Limit 15.247 (dBµV/m) | Margin (dB) | Pass/Fail |
| 2405 | 116.47 | — | V | -- | -- | — | -- |
| 2405 | 116.13 | -- | H | -- | -- | — | -- |
| 30-25000 | * | * | V/H | * | 96.5 | * | Pass |

*The spurious emissions from intentional radiators are more than 20 dB below the specified limit.

See the following test data plots for band-edge emissions.