

TEST REPORT

Test report no.: 1-1554-01-16/09-Part 2-A



Testing laboratory

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Accredited test laboratory:

The test laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025
 DAR registration number: DGA-PL-176/94-D1

Area of Testing: Radio/Satellite Communications

Applicant

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Manufacturer

Digi International GmbH
Branch Breisach
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 79206 Breisach / Germany

Test standard/s

| | |
|-------------------|--|
| 47 CFR Part 15 | Title 47 of the Code of Federal Regulations; Chapter I-Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices |
| RSS - 210 Issue 8 | Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment |

For further applied test standards please refer to section 3 of this test report.

Test item

| | |
|--------------------|---|
| Kind of test item: | WLAN module |
| Model name: | ConnectCore Wi-i.Mx51 |
| FCC ID: | MCQ-50M1699 |
| IC: | 1846A-50M1699 |
| Frequency [MHz]: | 5150 MHz – 5250 MHz ISM band 1 5250 MHz – 5350 MHz ISM band 2 5470 MHz – 5725 MHz ISM band 3 |
| Power supply: | 115.0V AC by AC/DC power supply |
| Temperature range: | -20 °C to +55 °C |

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test performed:

Test report authorised:

Marco Bertolino

Stefan Bös

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2 General information

2.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM ICT Services GmbH.

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

2.2 Application details

| | |
|------------------------------------|------------|
| Date of receipt of order: | 2010-09-22 |
| Date of receipt of test item: | 2010-11-11 |
| Start of test: | 2010-12-02 |
| End of test: | 2010-12-17 |
| Person(s) present during the test: | -/- |

3 Test standard/s

| Test standard | Version | Test standard description |
|-------------------|---------|---|
| 47 CFR Part 15 | 2009-10 | Title 47 of the Code of Federal Regulations; Chapter I-Federal Communications Commission subchapter A - general, Part 15-Radio frequency devices |
| RSS - 210 Issue 8 | 2010-12 | Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment |

4 Test environment

| | | |
|----------------------------|-----------|---------------------------------------|
| Temperature: | T_{nom} | +24 °C during room temperature tests |
| | T_{max} | +55 °C during high temperature test |
| | T_{min} | -20 °C during low temperature test |
| Relative humidity content: | | 60 % |
| Air pressure: | | not relevant for this kind of testing |
| Power supply: | V_{nom} | 115.0 V AC by AC/DC power supply |
| | V_{max} | 126.5 V |
| | V_{min} | 103.5 V |

5 Test item

| | | |
|----------------------|---|---|
| Kind of test item | : | WLAN module |
| Type identification | : | ConnectCore Wi-i.Mx51 |
| S/N serial number | : | Prototype 55001445-92 |
| HW hardware status | : | No information available! |
| SW software status | : | No information available! |
| Frequency band [MHz] | : | 5150 MHz – 5250 MHz ISM band 1 (lowest channel 5180; highest channel 5240 MHz) 5250 MHz – 5350 MHz ISM band 2 (lowest channel 5260; highest channel 5320 MHz) 5470 MHz – 5725 MHz ISM band 3 (lowest channel 5500; highest channel 5700 MHz) |
| Type of modulation | : | ODFM technology with BPSK; QPSK; 16- & 64-QAM modulation. |
| Number of channels | : | ISM band 1: 4 ISM band 2: 4 ISM band 3: 11 |
| Antenna | : | External rod antenna → for more information please take a look at the annex B – photos of the EUT. |
| Power supply | : | 115.0 V AC by AC/DC power supply |
| Temperature range | : | -20 °C to +55 °C |

6 Test laboratories sub-contracted

None

7 Summary of measurement results



No deviations from the technical specifications were ascertained



There were deviations from the technical specifications ascertained

| TC Identifier | Description | Verdict | Date | Remark |
|---------------|--------------------------------------|---------|------------|--------|
| RF-Testing | FCC Part 15 §15.407 - CANADA RSS-210 | Passed | 2011-01-13 | -/- |

| Test specification clause | Test case | Temperature conditions | Power source voltages | Mode | Pass | Fail | NA | NP | Remark |
|--|--|------------------------|-----------------------|------|-------------------------------------|--------------------------|--------------------------|--------------------------|----------|
| | Antenna gain | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| §15.407a(3)+(4)/ RSS-210 Issue 8 A 9.2 (1) | Peak transmit power | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| §15.407/ Rss-Gen | Spectrum bandwidth of a OFDM system 6dB bandwidth | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| §15.407/ Rss-Gen | Spectrum bandwidth of a OFDM system 20dB bandwidth | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| §15.407/ Rss-Gen | Spectrum bandwidth of a OFDM system 26dB bandwidth | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| §15.205 RSS-210 / A8.5 | Band edge compliance radiated | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| §15.407a(5) RSS-210 Issue 8 A9.2 (1) | Peak power spectral density conducted | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| RSS-210 Annex 9.5(5) | Emission stability under extrem conditions | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| § 15.407a (6)/ RSS-210 Issue 8 A 9.2 (1) | Ratio of peak excursion | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| § 15.407b (3)/ RSS-210 Issue 8 A 9.3 (1) | Undesirable emissions conducted | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| § 15.209/ RSS-210 Issue 8 A 9.3 (1) | Spurious Emission - radiated (TX) | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| § 15.209/ RSS-210 Issue 8 2.7 | Spurious Emission - radiated (RX) | Nominal | Nominal | OFDM | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |
| § 15.107/207/ RSS-210 Issue 8 2.7 | Conducted Emissions <30 MHz | Nominal | Nominal | -/- | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Complies |

Note: NA = Not Applicable; NP = Not Performed

8 RF measurement testing

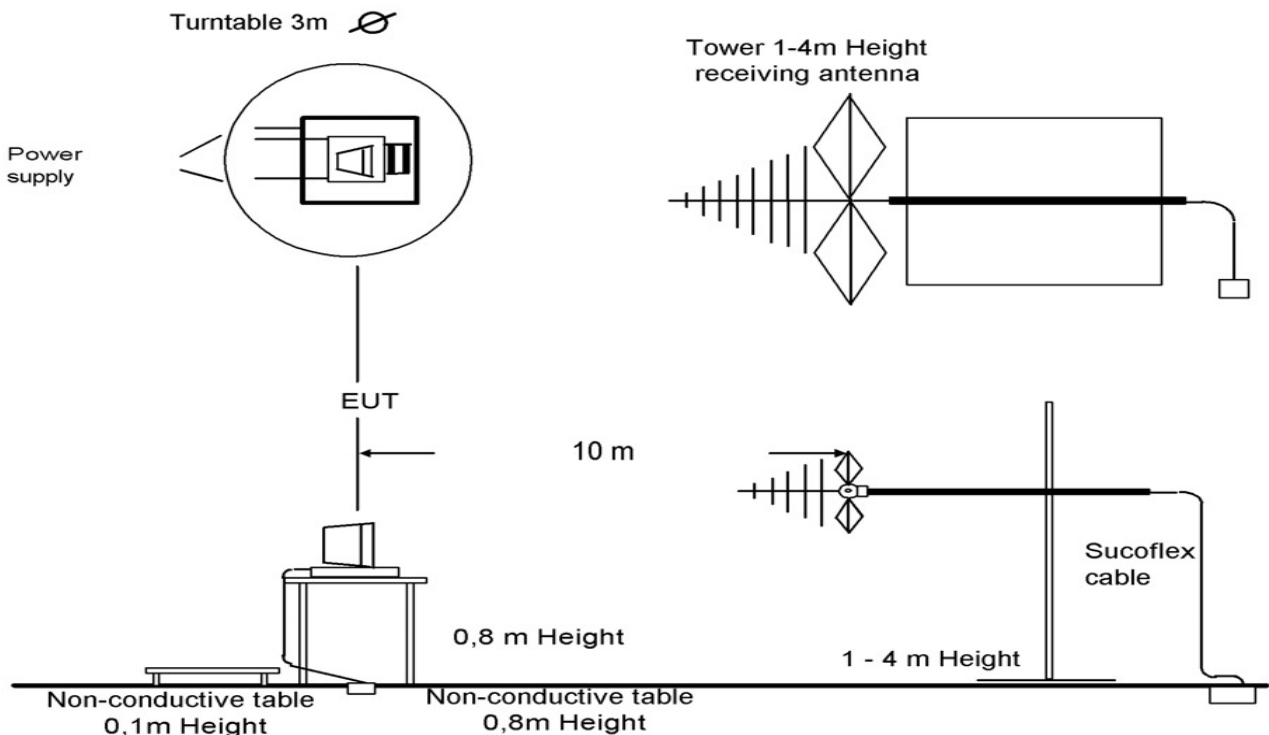
8.1 Description of test setup

8.1.1 Radiated measurements

The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 25 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63.2-1996 clause 15 and ANSI C63.4-2009 clause 4.1.5. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63-4-2009 clause 4.2.

Antennas are confirmed with ANSI C63.2-1996 item 15.

Semi anechoic chamber



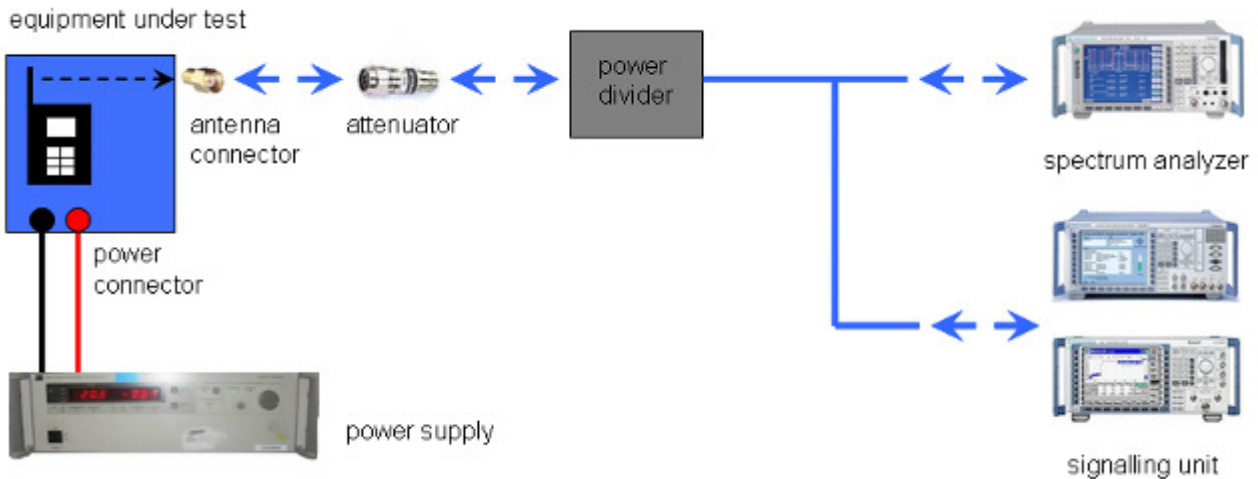
Picture 1: Diagram radiated measurements

| | |
|-----------------|---------------------|
| 9 kHz - 30 MHz: | active loop antenna |
| 30 MHz – 1 GHz: | tri-log antenna |
| > 1 GHz: | horn antenna |

The EUT is powered by an external power supply with nominal voltage. The signalling is performed from outside the chamber with a signalling unit (CMU200 or other) by air link using signalling antenna.

8.1.2 Conducted measurements

The EUT's RF signal is coupled out by the antenna connector which is supplied by the manufacturer. The signal is first 10dB attenuated before it is power divided (~6dB loss per branch). One of the signal paths is connected to the communication base Station (CMU200 or other), the other one is connected to the spectrum analyzer. The specific losses for both signal paths are first checked within a calibration. The measurement readings on the signalling unit/spectrum analyzer are corrected by the specific test set-up loss. The attenuator, power divider, signalling unit and the spectrum analyzer are impedance matched on 50 Ohm.



Picture 2: Diagram conducted measurements

8.2 Additional comments

- Reference documents: This test report consists of three parts 1-1554-01-06_09-Part 1-A, 1-1554-01-06_09-Part 2-A and 1-1554-01-06_09-Part 3 due to file size requirements of the pdf for granting. A complete test report 1-1554-01-06_09 is also available.
- Special test descriptions: None
- Configuration descriptions: None
- Test mode:
- No test mode available.
lperf was used to ping another device with the largest support packet size
 - Special software is used.
EUT is transmitting pseudo random data by itself

9 Measurement results

9.1 TX spurious emissions radiated

Description:

Measurement of the radiated spurious emissions in transmit mode. The measurement is performed at channel 1, 6 and 11. The measurement is repeated for all modulations.

Measurement:

| Measurement parameter | |
|-----------------------|---|
| Detector: | Peak / Quasi Peak |
| Sweep time: | Auto |
| Video bandwidth: | Sweep: 100 kHz RB Remeasurement: 10 Hz RB According Part 15.407 1 MHz |
| Resolution bandwidth: | F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz |
| Span: | 30 MHz to 40 GHz |
| Trace-Mode: | Max Hold |
| Measured Modulation | <input checked="" type="checkbox"/> OFDM |

The modulation with the highest output power was used to perform the transmitter spurious emissions. If spurious were detected a re-measurement was performed on the detected frequency with each modulation.

Limits:

| FCC | IC |
|---|-------------------------------|
| CFR Part 15.407 b (1) | RSS 210 Issue 8 Annex 9 3 (1) |
| TX Spurious Emissions Radiated | |
| <p>For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.</p> | |

Results: band 1 – 5150 MHz to 5250 MHz, a – mode

| TX Spurious Emissions Radiated [dBμV/m] | | | | | | | | |
|---|---------------------|-------|---|---------------------|-------|---|---------------------|-------|
| OFDM - mode | | | | | | | | |
| 5180 MHz | | | 5220 MHz | | | 5240 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | |
| 3453.3 | No restricted band! | | 3466.6 | No restricted band! | | 3493.4 | No restricted band! | |
| 6906.6 | No restricted band! | | 6933.3 | No restricted band! | | 6986.6 | No restricted band! | |
| 10362.0 | No restricted band! | | 10396.0 | No restricted band! | | 10480.0 | No restricted band! | |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

| TX Spurious Emissions Radiated [dBm] | | | | | | | | |
|---|----------|--|---|----------|--|---|----------|--|
| OFDM - mode | | | | | | | | |
| 5180 MHz | | | 5220 MHz | | | 5240 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| 10.36 GHz | 1 MHz PP | -33.43 dBm vertical -35.25 dBm horizontal | 10.40 GHz | 1 MHz PP | -33.17 dBm vertical -34.72 dBm horizontal | 10.48GHz | 1 MHz PP | -33.09 dBm vertical -34.21 dBm horizontal |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

Results: band 1 – 5150 MHz to 5250 MHz, n – mode

| TX Spurious Emissions Radiated [dB μ V/m] | | | | | | | | |
|---|---------------------|-------|---|---------------------|-------|---|---------------------|-------|
| OFDM - mode | | | | | | | | |
| 5180 MHz | | | 5220 MHz | | | 5240 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | |
| 3453.3 | No restricted band! | | 3466.6 | No restricted band! | | 3493.4 | No restricted band! | |
| 6906.6 | No restricted band! | | 6933.3 | No restricted band! | | 6986.6 | No restricted band! | |
| 10362.0 | No restricted band! | | 10396.0 | No restricted band! | | 10480.0 | No restricted band! | |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

| TX Spurious Emissions Radiated [dBm] | | | | | | | | |
|---|----------|-----------------------|---|----------|-----------------------|---|----------|-----------------------|
| OFDM - mode | | | | | | | | |
| 5180 MHz | | | 5220 MHz | | | 5240 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| 3466.7 | 1 MHz PP | -48.21 dBm vertical | 10.40 GHz | 1 MHz PP | -34.33 dBm vertical | 10.48GHz | 1 MHz PP | -34.11 dBm vertical |
| | | -51.01 dBm horizontal | | | -34.59 dBm horizontal | | | -34.30 dBm horizontal |
| 10.36 GHz | 1 MHz PP | -34.01 dBm vertical | -/- | -/- | -/- | -/- | -/- | -/- |
| | | -34.00 dBm horizontal | | | | | | |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

Results: band 2 – 5250 MHz to 5350 MHz, a – mode

| TX Spurious Emissions Radiated [dBμV/m] | | | | | | | | |
|---|---------------------|-------|---|---------------------|-------|---|---------------------|--|
| OFDM - mode | | | | | | | | |
| 5260 MHz | | | 5280 MHz | | | 5320 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | |
| 3506.6 | No restricted band! | | 3520.2 | No restricted band! | | 3546.7 | No restricted band! | |
| 7016.6 | No restricted band! | | 7040.0 | No restricted band! | | 4160.0 | 1 MHz / 10 Hz PP | 45.18 dBμV/m vertical 41.59 dBμV/m horizontal |
| 10520.0 | No restricted band! | | 10560.0 | No restricted band! | | 10641.4 | 1 MHz / 10 Hz PP | 50.73 dBμV/m vertical 47.74 dBμV/m horizontal |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

| TX Spurious Emissions Radiated [dBm] | | | | | | | | |
|---|----------|--|---|----------|--|---|----------|--|
| OFDM - mode | | | | | | | | |
| 5260 MHz | | | 5280 MHz | | | 5320 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| 10.52 GHz | 1 MHz PP | -33.33 dBm vertical -34.52 dBm horizontal | 3.52 GHz | 1 MHz PP | -44.70 dBm vertical -47.14 dBm horizontal | 10.64 GHz | 1 MHz PP | -32.90 dBm vertical -33.11 dBm horizontal |
| -/- | -/- | -/- | 10.56 GHz | 1 MHz PP | -33.02 dBm vertical -34.15 dBm horizontal | -/- | -/- | -/- |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

Results: band 2 – 5250 MHz to 5350 MHz, n – mode

| TX Spurious Emissions Radiated [dB μ V/m] | | | | | | | | |
|---|---------------------|-------|---|---------------------|-------|---|---------------------|--|
| OFDM - mode | | | | | | | | |
| 5260 MHz | | | 5280 MHz | | | 5320 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | |
| 3506.6 | No restricted band! | | 3520.2 | No restricted band! | | 3546.7 | No restricted band! | |
| 7016.6 | No restricted band! | | 7040.0 | No restricted band! | | 4160.0 | 1 MHz / 10 Hz PP | 45.07 dB μ V/m vertical 41.66 dB μ V/m horizontal |
| 10520.0 | No restricted band! | | 10560.0 | No restricted band! | | 10641.4 | 1 MHz / 10 Hz PP | 49.90 dB μ V/m vertical 47.52 dB μ V/m horizontal |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

| TX Spurious Emissions Radiated [dBm] | | | | | | | | |
|---|----------|--|---|----------|--|---|----------|--|
| OFDM - mode | | | | | | | | |
| 5260 MHz | | | 5280 MHz | | | 5320 MHz | | |
| F | Detector | Level | F | Detector | Level | F | Detector | Level |
| 10.52 GHz | 1 MHz PP | -33.42 dBm vertical -33.59 dBm horizontal | 10.56 GHz | 1 MHz PP | -33.71 dBm vertical -34.04 dBm horizontal | 10.64 GHz | 1 MHz PP | -33.26 dBm vertical -33.31 dBm horizontal |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| | | | | | | | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

Results: band 3 – 5470 MHz to 5725 MHz, a – mode

| TX Spurious Emissions Radiated [dB μ V/m] | | | | | | | | |
|---|------------------|--|---|------------------|--|---|------------------|--|
| OFDM - mode | | | | | | | | |
| 5500 MHz | | | 5600 MHz | | | 5700 MHz | | |
| F [MHz] | Detector | Level | F [MHz] | Detector | Level | F [MHz] | Detector | Level |
| For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | |
| 3666.7 | 1 MHz / 10 Hz PP | 50.19 dB μ V/m vertical 46.02 dB μ V/m horizontal | 3733.4 | 1 MHz / 10 Hz PP | 48.81 dB μ V/m vertical 47.09 dB μ V/m horizontal | 3800.0 | 1 MHz / 10 Hz PP | 48.17 dB μ V/m vertical 46.62 dB μ V/m horizontal |
| 4160.0 | 1 MHz / 10 Hz PP | 41.41 dB μ V/m vertical 39.72 dB μ V/m horizontal | 4160.0 | 1 MHz / 10 Hz PP | 44.59 dB μ V/m vertical 41.98 dB μ V/m horizontal | 11400.0 | 1 MHz / 10 Hz PP | 47.23 dB μ V/m vertical 45.84 dB μ V/m horizontal |
| 11000.0 | 1 MHz / 10 Hz PP | 49.89 dB μ V/m vertical 47.33 dB μ V/m horizontal | 7466.7 | 1 MHz / 10 Hz PP | 41.51 dB μ V/m vertical 42.77 dB μ V/m horizontal | -/- | -/- | -/- |
| -/- | -/- | -/- | 11200.0 | 1 MHz / 10 Hz PP | 47.72 dB μ V/m vertical 46.84 dB μ V/m horizontal | -/- | -/- | -/- |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

| TX Spurious Emissions Radiated [dBm] | | | | | | | | |
|---|----------|--|---|----------|--|---|----------|--|
| OFDM - mode | | | | | | | | |
| 5500 MHz | | | 5600 MHz | | | 5700 MHz | | |
| F [MHz] | Detector | Level | F [MHz] | Detector | Level | F [MHz] | Detector | Level |
| 3.67 GHz | 1 MHz PP | -42.11 dBm vertical -44.40 dBm horizontal | 11.2 GHz | 1 MHz PP | -33.82 dBm vertical -34.27 dBm horizontal | 11.4 GHz | 1 MHz PP | -34.71 dBm vertical -35.33 dBm horizontal |
| 11.0 GHz | 1 MHz PP | -33.20 dBm vertical -33.47 dBm horizontal | -/- | -/- | -/- | -/- | -/- | -/- |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

Results: band 2 – 5470 MHz to 5725 MHz, n – mode

| TX Spurious Emissions Radiated [dBμV/m] | | | | | | | | |
|---|------------------|--|---|------------------|--|---|------------------|--|
| OFDM - mode | | | | | | | | |
| 5500 MHz | | | 5600 MHz | | | 5700 MHz | | |
| F [MHz] | Detector | Level | F [MHz] | Detector | Level | F [MHz] | Detector | Level |
| For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | | For emissions below 1 GHz – please take a look at the table below the 1 GHz plot. | | |
| 3666.7 | 1 MHz / 10 Hz PP | 49.71 dBμV/m vertical 45.33 dBμV/m horizontal | 3733.4 | 1 MHz / 10 Hz PP | 48.02 dBμV/m vertical 45.76 dBμV/m horizontal | 3800.0 | 1 MHz / 10 Hz PP | 47.67 dBμV/m vertical 46.33 dBμV/m horizontal |
| 4160.0 | 1 MHz / 10 Hz PP | 40.81 dBμV/m vertical 39.99 dBμV/m horizontal | 4160.0 | 1 MHz / 10 Hz PP | 44.33 dBμV/m vertical 41.65 dBμV/m horizontal | 11400.0 | 1 MHz / 10 Hz PP | 46.77 dBμV/m vertical 44.19 dBμV/m horizontal |
| 11000.0 | 1 MHz / 10 Hz PP | 49.46 dBμV/m vertical 47.08 dBμV/m horizontal | 7466.7 | 1 MHz / 10 Hz PP | 41.01 dBμV/m vertical 42.67 dBμV/m horizontal | -/- | -/- | -/- |
| -/- | -/- | -/- | 11200.0 | 1 MHz / 10 Hz PP | 46.95 dBμV/m vertical 46.34 dBμV/m horizontal | -/- | -/- | -/- |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

| TX Spurious Emissions Radiated [dBm] | | | | | | | | |
|---|----------|--|---|----------|--|---|----------|--|
| OFDM - mode | | | | | | | | |
| 5500 MHz | | | 5600 MHz | | | 5700 MHz | | |
| F [MHz] | Detector | Level | F [MHz] | Detector | Level | F [MHz] | Detector | Level |
| 11.0 GHz | 1 MHz PP | -33.72 dBm vertical -34.12 dBm horizontal | 11.2 GHz | 1 MHz PP | -34.53 dBm vertical -34.71 dBm horizontal | 3.8 GHz | 1 MHz PP | -43.12 dBm vertical -46.18 dBm horizontal |
| -/- | -/- | -/- | -/- | -/- | -/- | 11.4 GHz | 1 MHz PP | -38.37 dBm vertical -39.00 dBm horizontal |
| For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | | For emissions above 13 GHz – please take a look at the plots. | | |
| Measurement uncertainty | | | ± 3 dB | | | | | |

Band 1: 5150 MHz to 5250 MHz

OFDM – mode / a – mode (54 MBit/s):

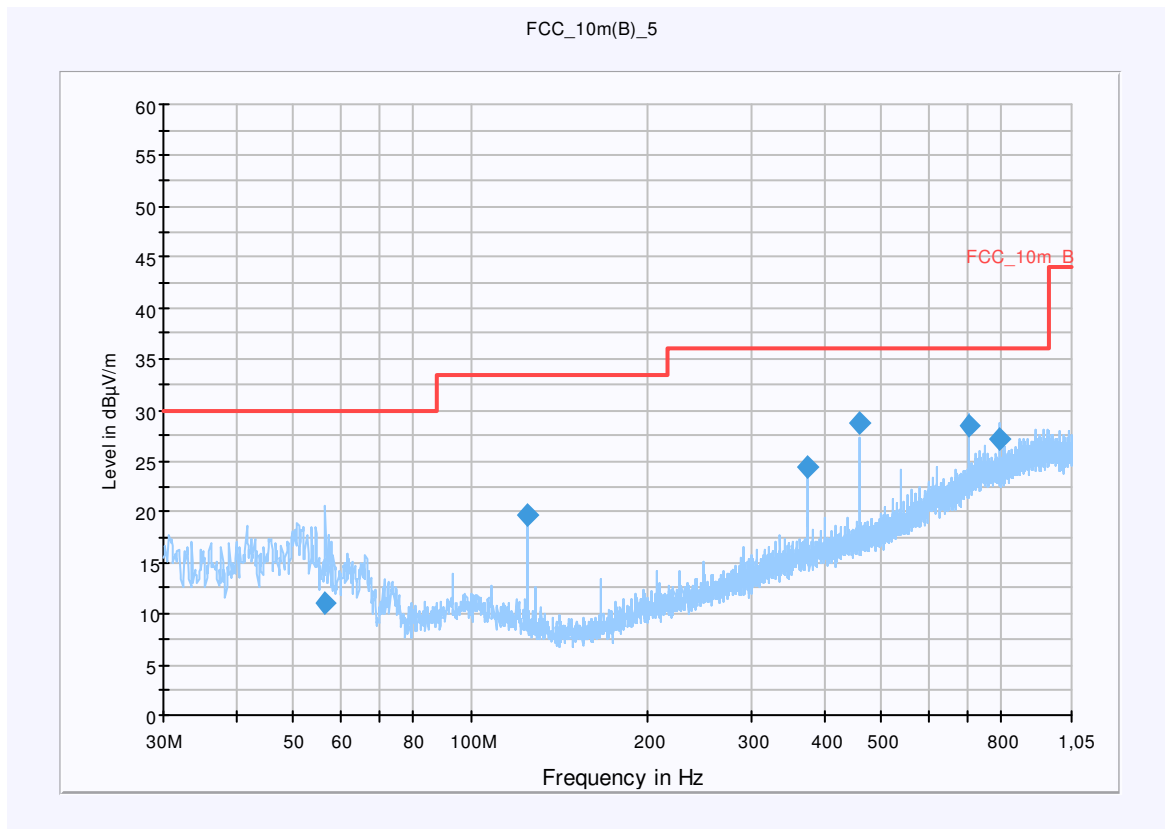
Plot 1: lowest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5180 MHz, CH 36, 54 Mbit/s, a mode, power index 21
 Operator Name: Hennemann
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dBµV/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30 MHz - 1,05 GHz QuasiPeak 120 kHz 15 s Receiver



Final Result 1

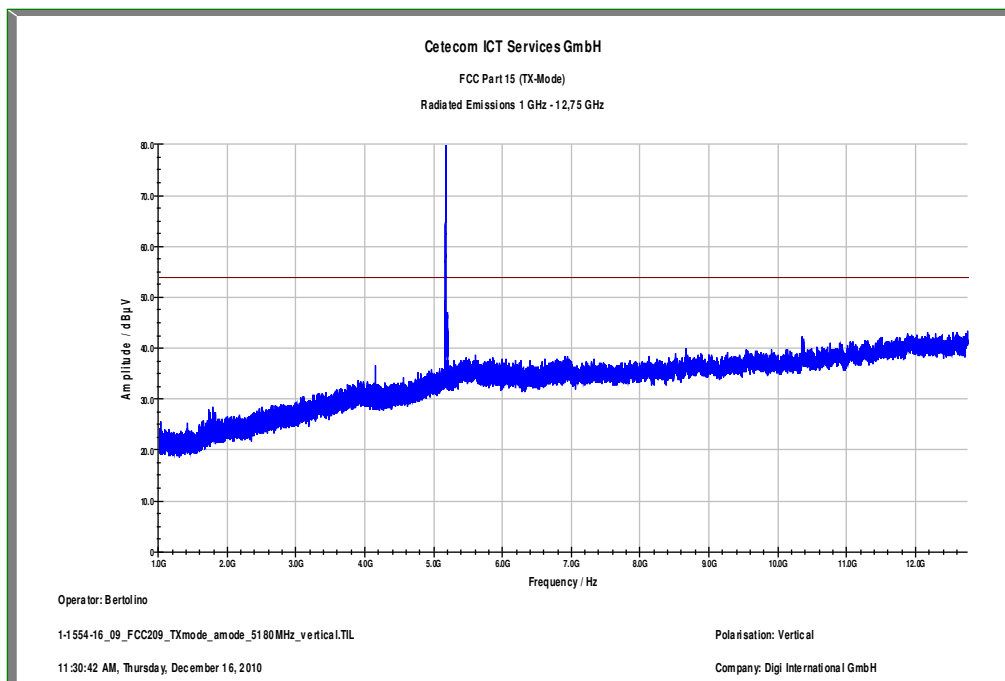
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) | Comment |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------|---------|
| 56.760000 | 11.0 | 15000.000 | 120.000 | 177.0 | V | -2.0 | 12.4 | 19.0 | 30.0 | |
| 124.680000 | 19.7 | 15000.000 | 120.000 | 98.0 | V | 182.0 | 9.8 | 13.8 | 33.5 | |
| 374.040000 | 24.3 | 15000.000 | 120.000 | 270.0 | H | -2.0 | 16.5 | 11.7 | 36.0 | |
| 457.200000 | 28.7 | 15000.000 | 120.000 | 203.0 | H | 153.0 | 17.8 | 7.3 | 36.0 | |
| 706.560000 | 28.6 | 15000.000 | 120.000 | 135.0 | H | 153.0 | 22.7 | 7.4 | 36.0 | |
| 789.600000 | 27.1 | 15000.000 | 120.000 | 98.0 | H | 343.0 | 23.8 | 8.9 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

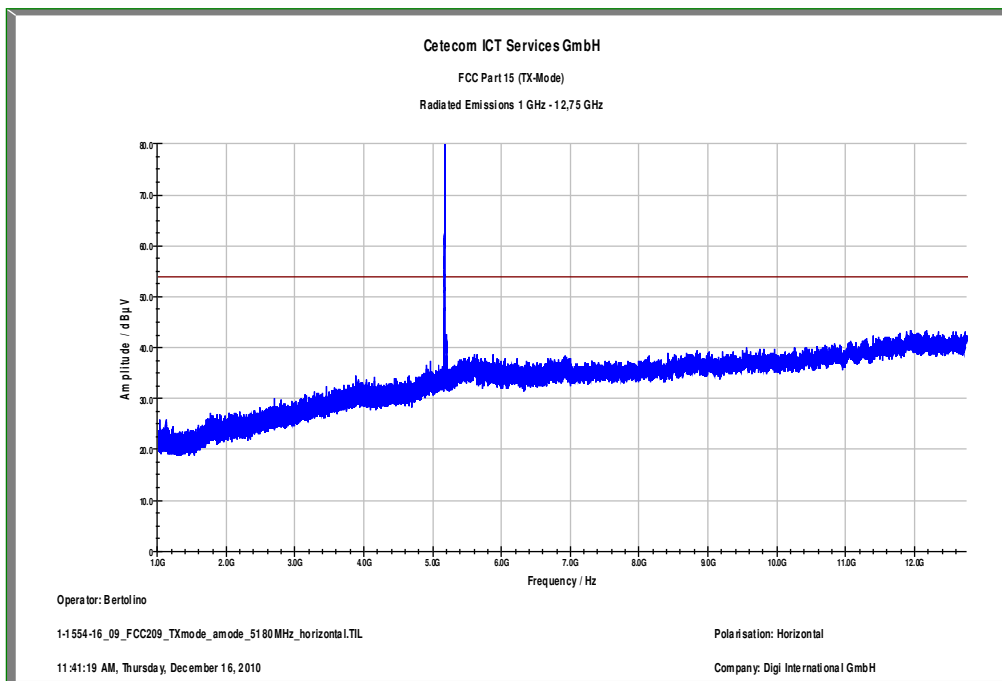
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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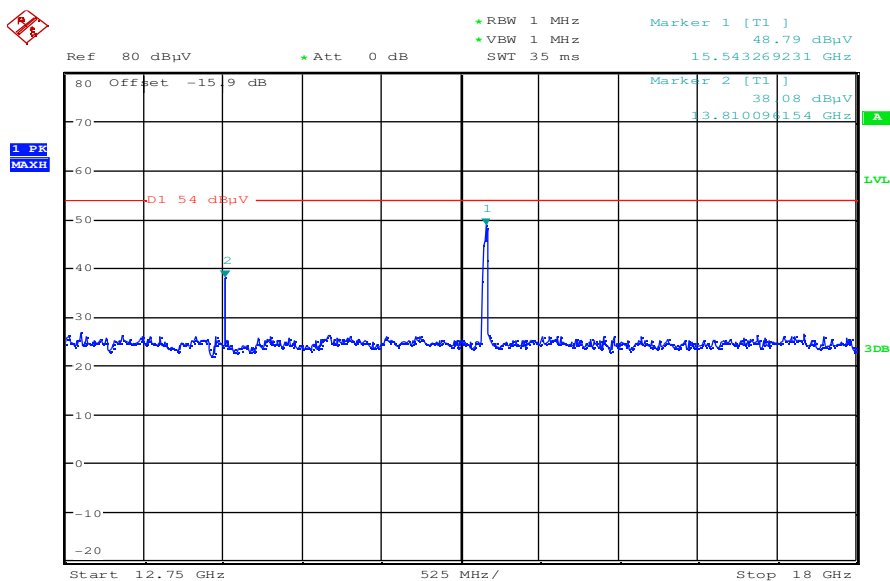
Plot 2: lowest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 3: lowest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

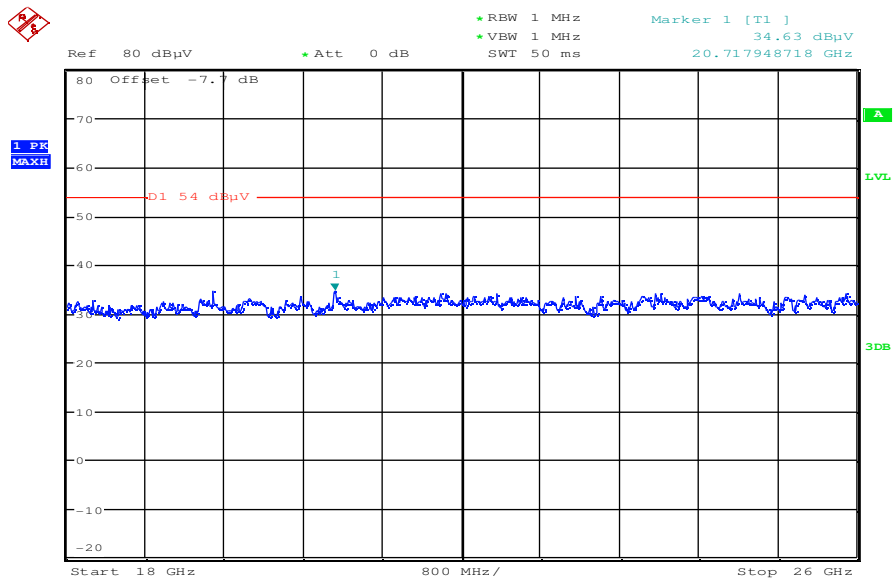


Plot 4: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



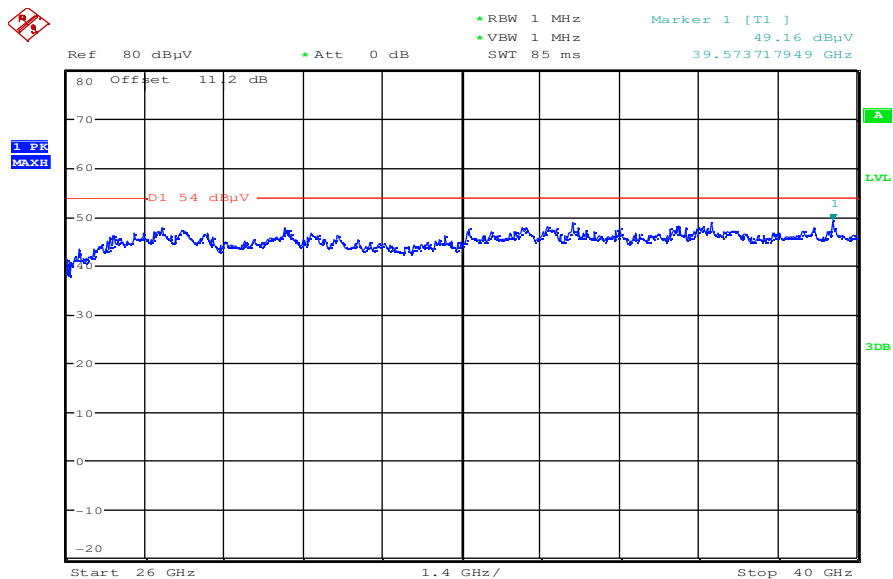
Date: 14.DEC.2010 10:07:07

Plot 5: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



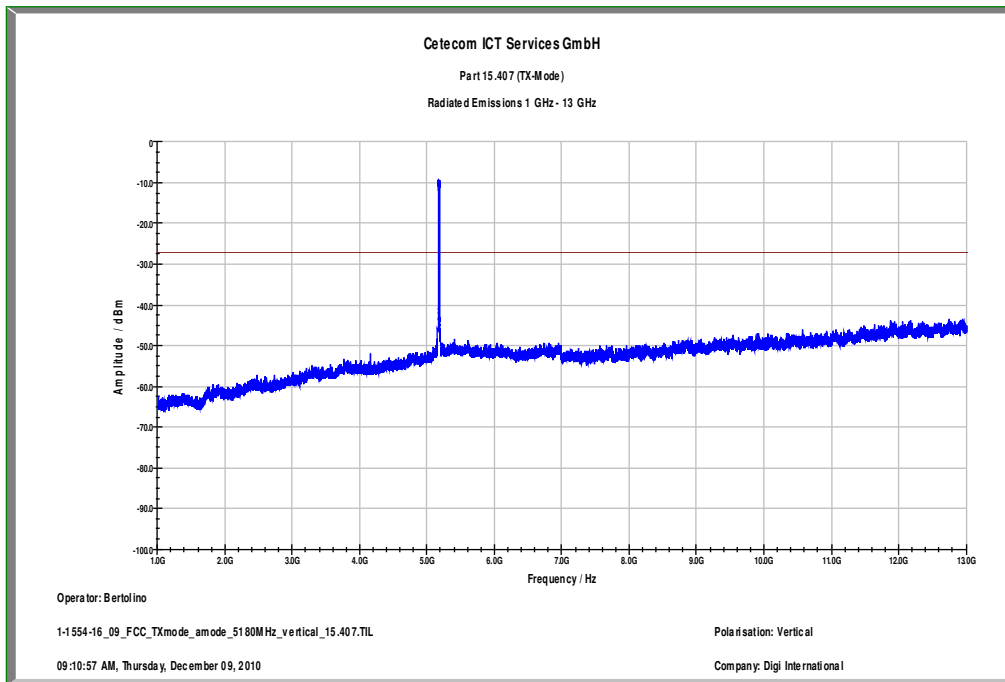
Date: 14.DEC.2010 10:48:10

Plot 6: lowest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

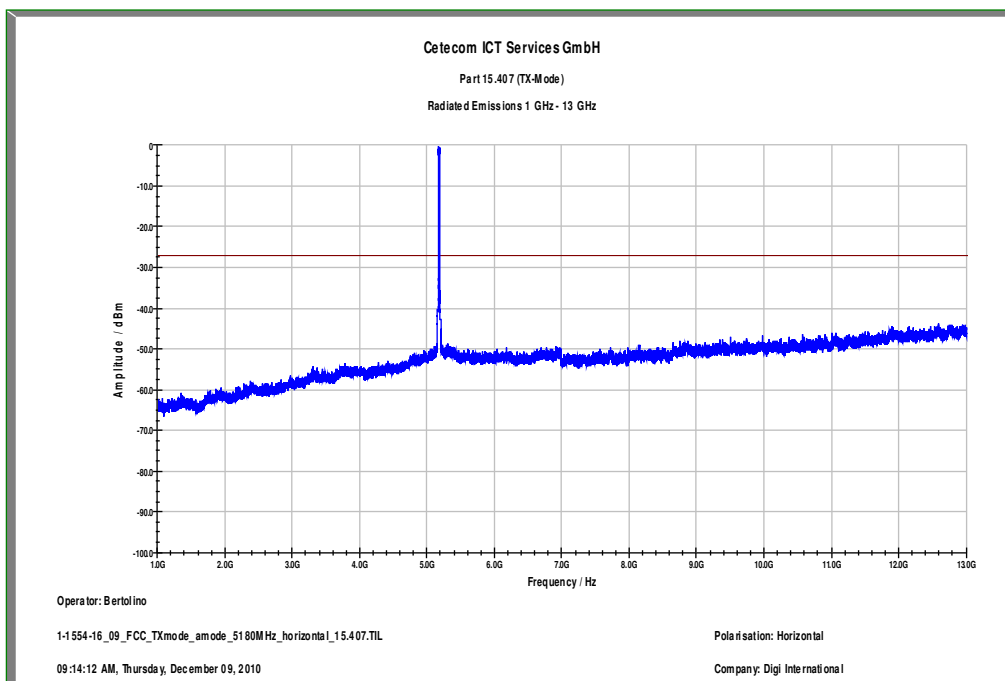


Date: 14.DEC.2010 11:03:51

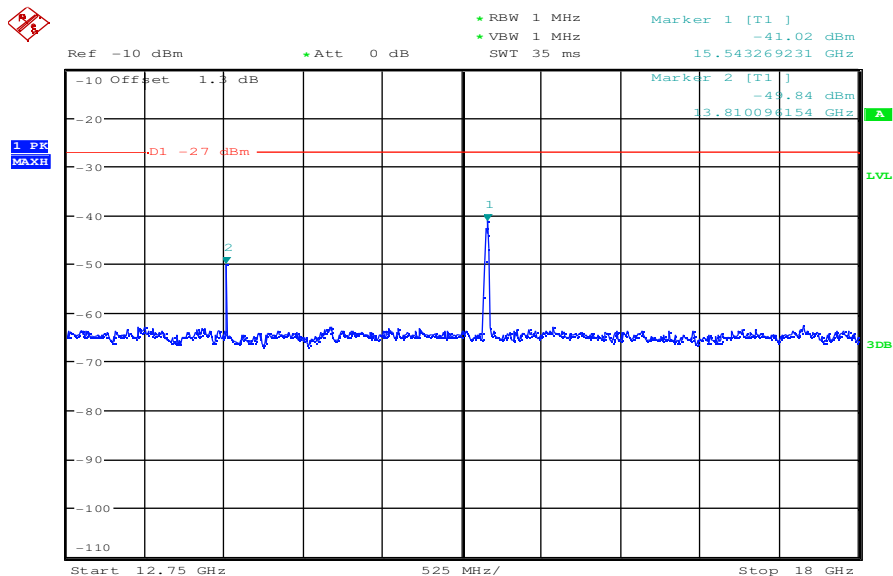
Plot 7: lowest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 8: lowest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

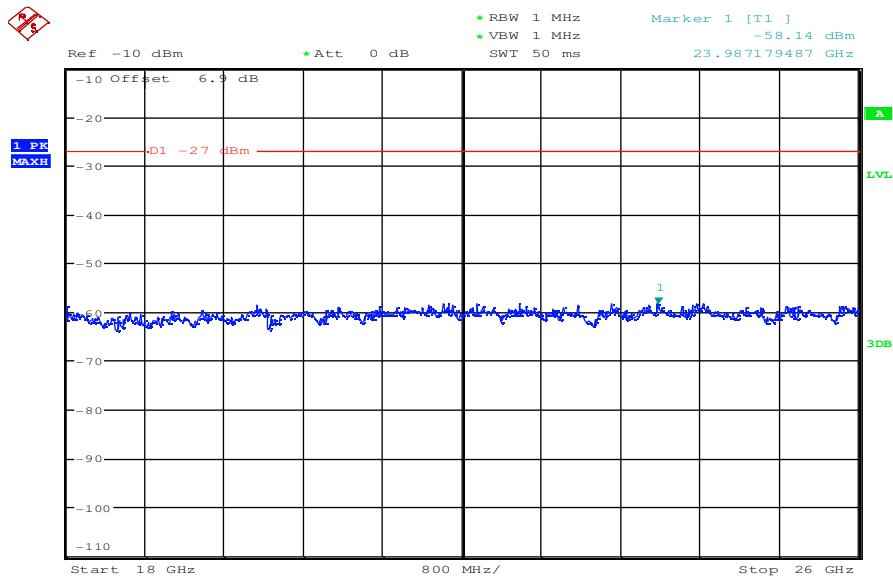


Plot 9: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



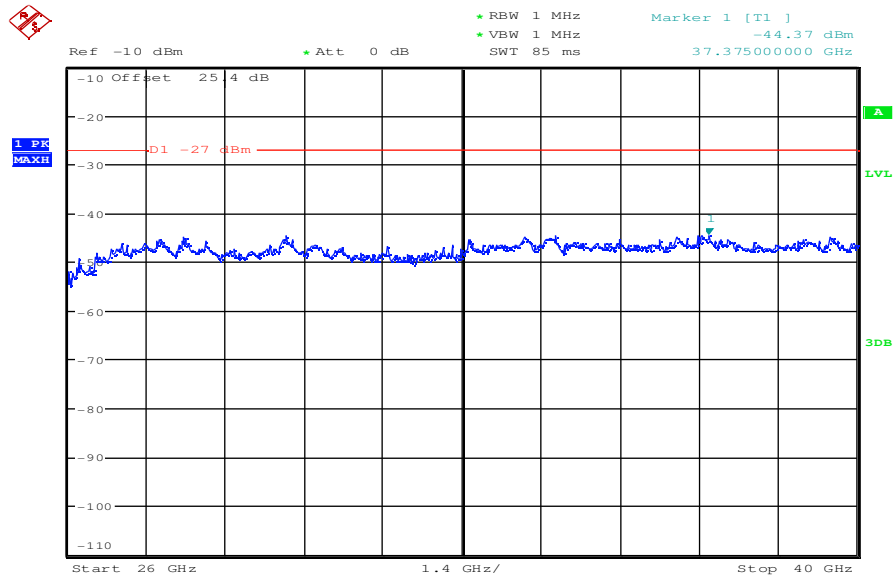
Date: 14.DEC.2010 07:20:24

Plot 10: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 07:51:11

Plot 11: lowest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:10:42

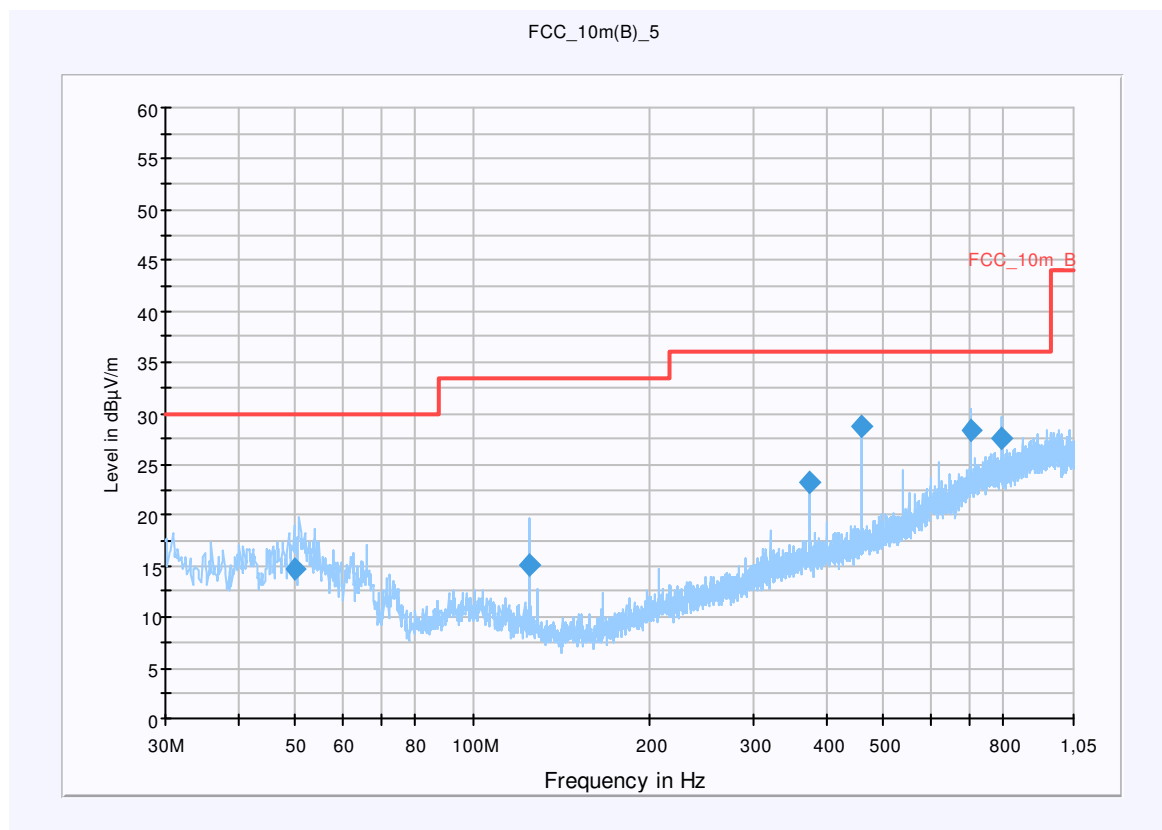
Plot 12: middle channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5200 MHz, CH 40, 54 Mbit/s, a mode, power index 21
 Operator Name: Hennemann
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30 MHz - 1,05 GHz QuasiPeak 120 kHz 15 s Receiver



Final Result 1

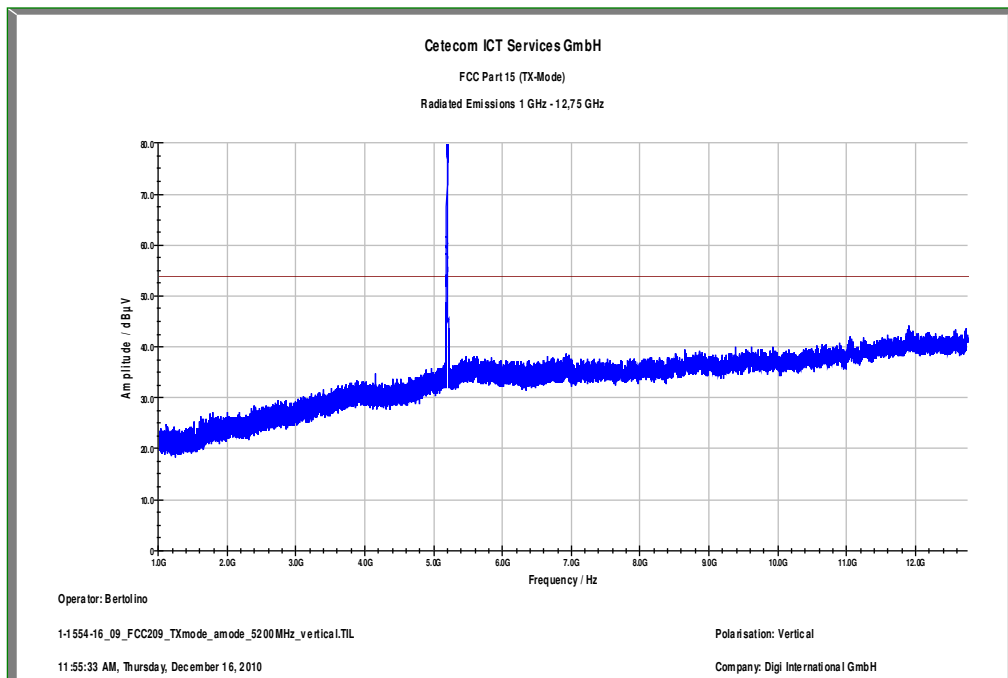
| Frequency (MHz) | QuasiPeak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) | Comment |
|-----------------|--------------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------------|---------|
| 49.800000 | 14.7 | 15000.000 | 120.000 | 117.0 | V | -2.0 | 13.4 | 15.3 | 30.0 | |
| 124.680000 | 15.2 | 15000.000 | 120.000 | 98.0 | V | 189.0 | 9.8 | 18.3 | 33.5 | |
| 374.040000 | 23.2 | 15000.000 | 120.000 | 270.0 | H | 38.0 | 16.5 | 12.8 | 36.0 | |
| 457.200000 | 28.8 | 15000.000 | 120.000 | 204.0 | H | 172.0 | 17.8 | 7.2 | 36.0 | |
| 706.560000 | 28.4 | 15000.000 | 120.000 | 98.0 | H | 158.0 | 22.7 | 7.6 | 36.0 | |
| 789.600000 | 27.5 | 15000.000 | 120.000 | 98.0 | H | 158.0 | 23.8 | 8.5 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

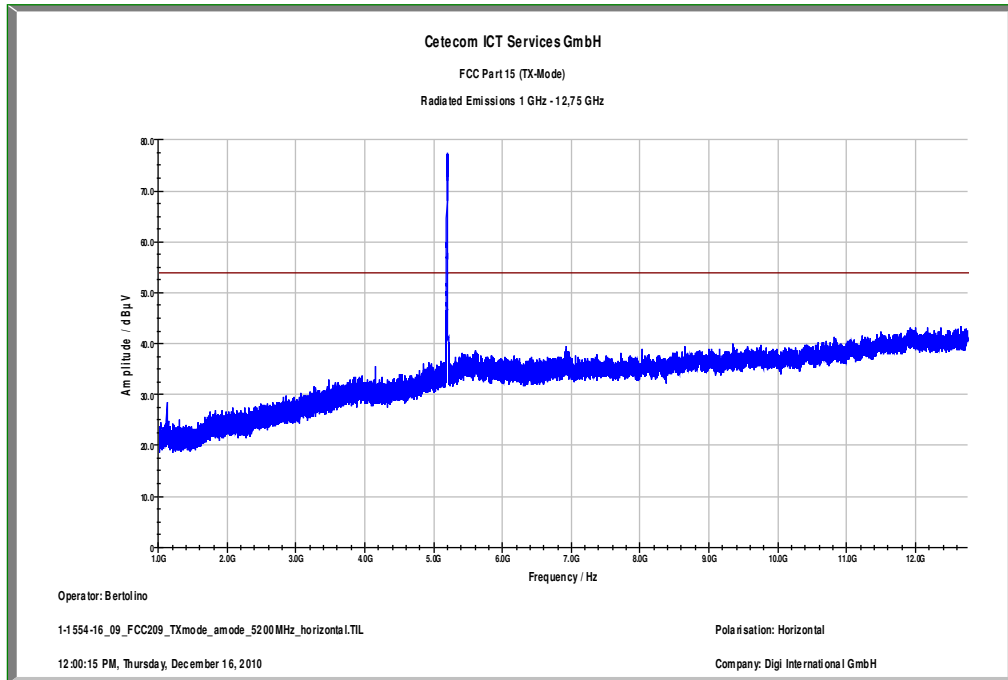
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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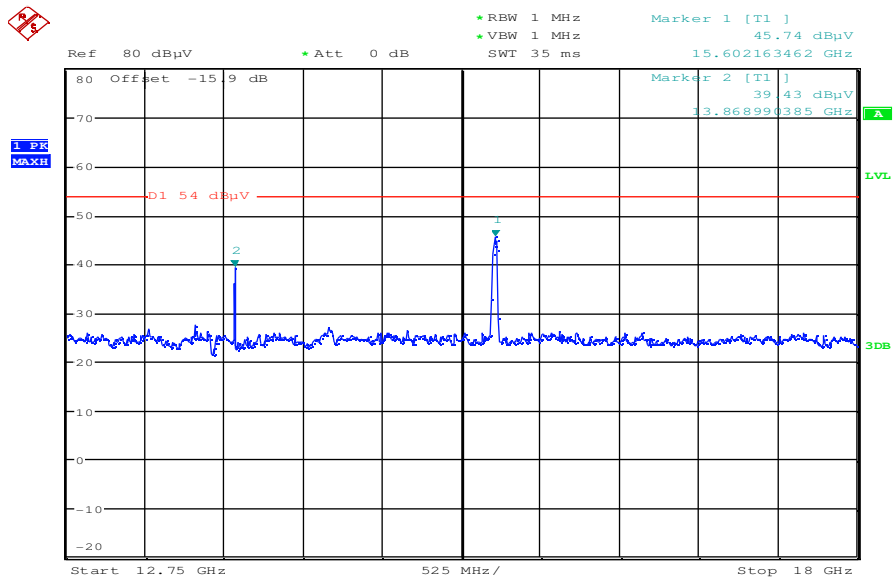
Plot 13: middle channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 14: middle channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

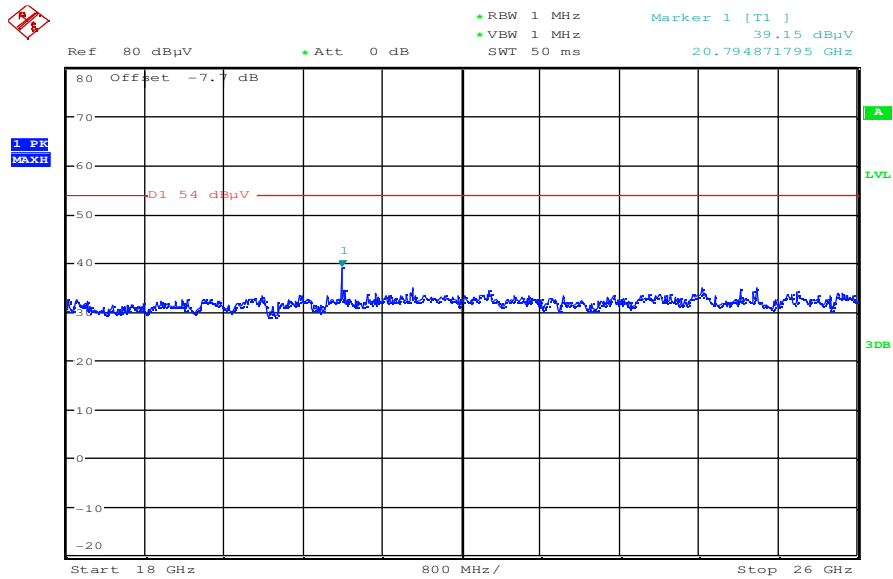


Plot 15: middle channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



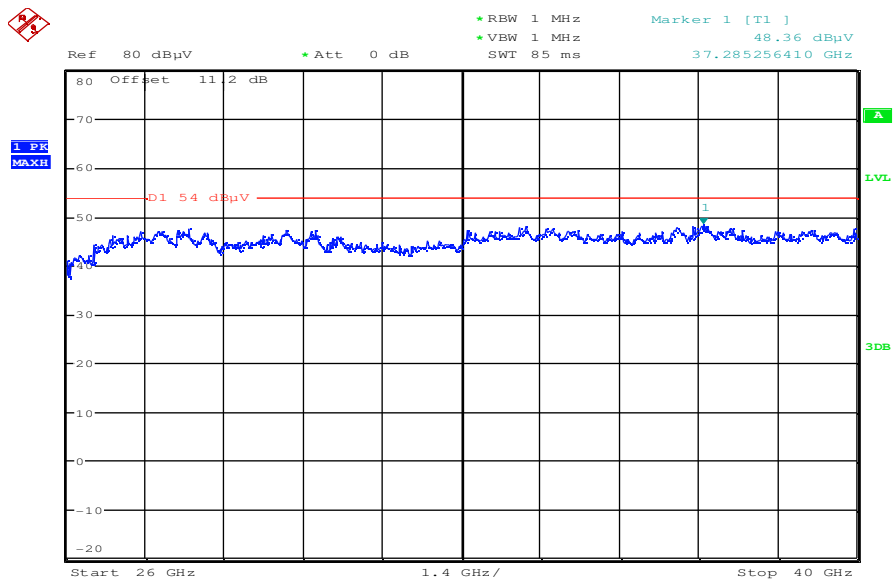
Date: 14.DEC.2010 10:08:55

Plot 16: middle channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



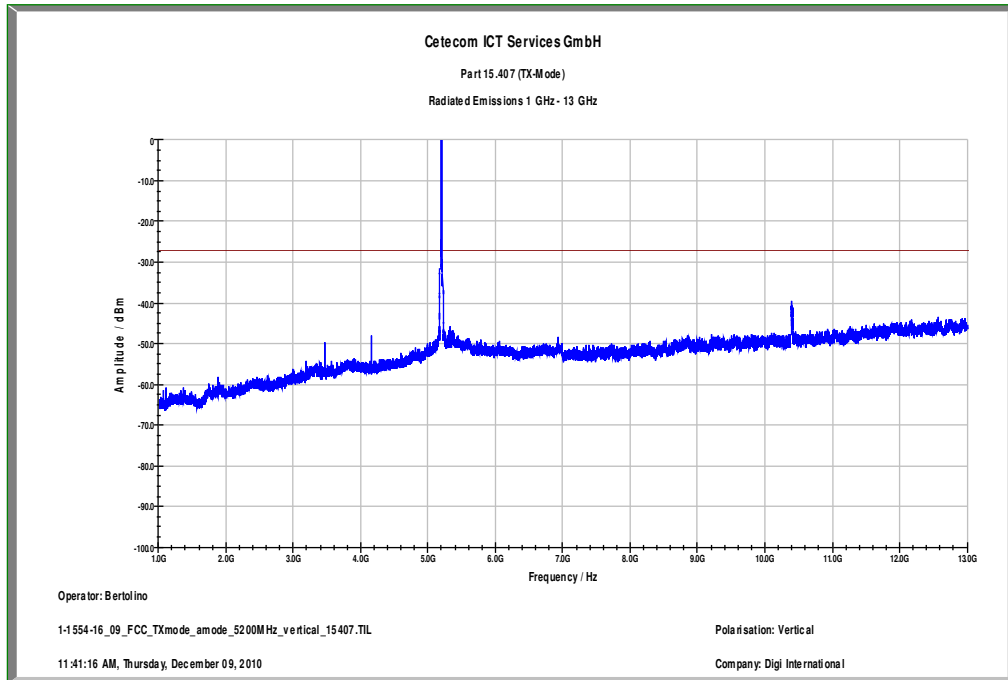
Date: 14.DEC.2010 10:49:03

Plot 17: middle channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

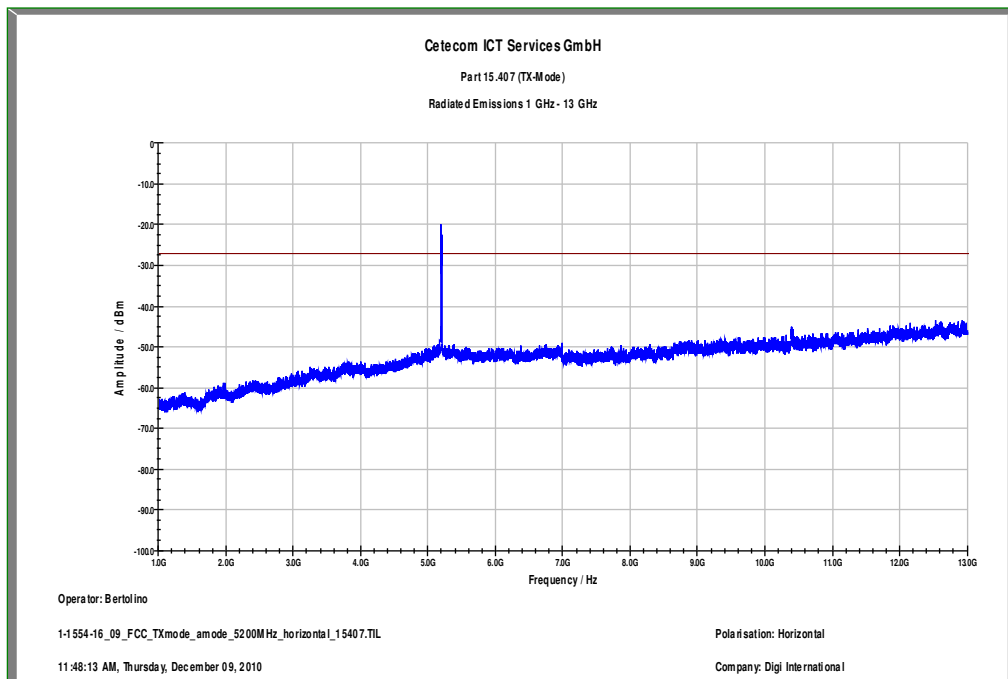


Date: 14.DEC.2010 11:04:35

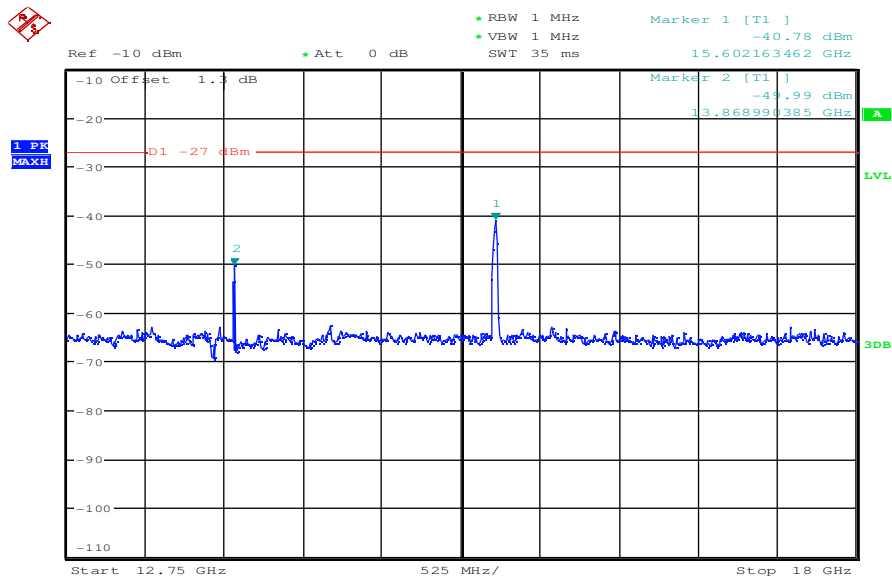
Plot 18: middle channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 19: middle channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

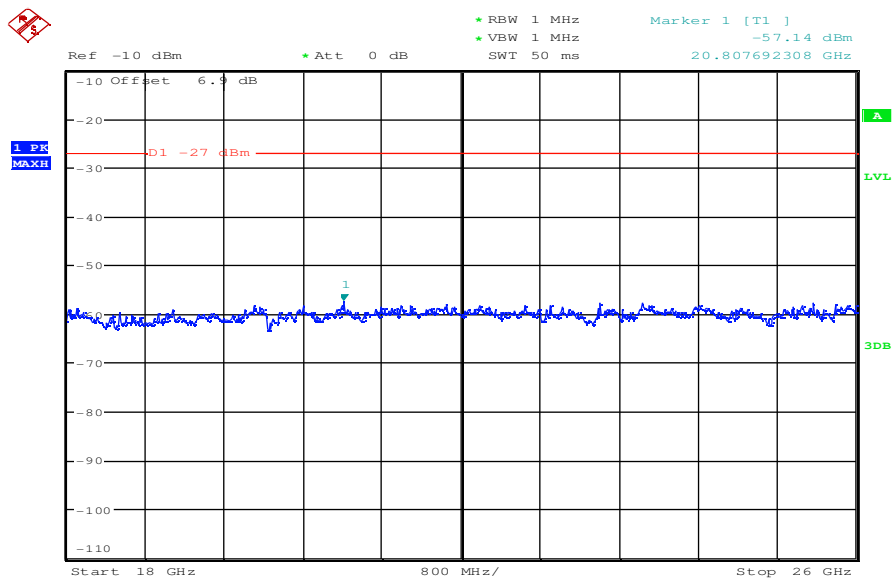


Plot 20: middle channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



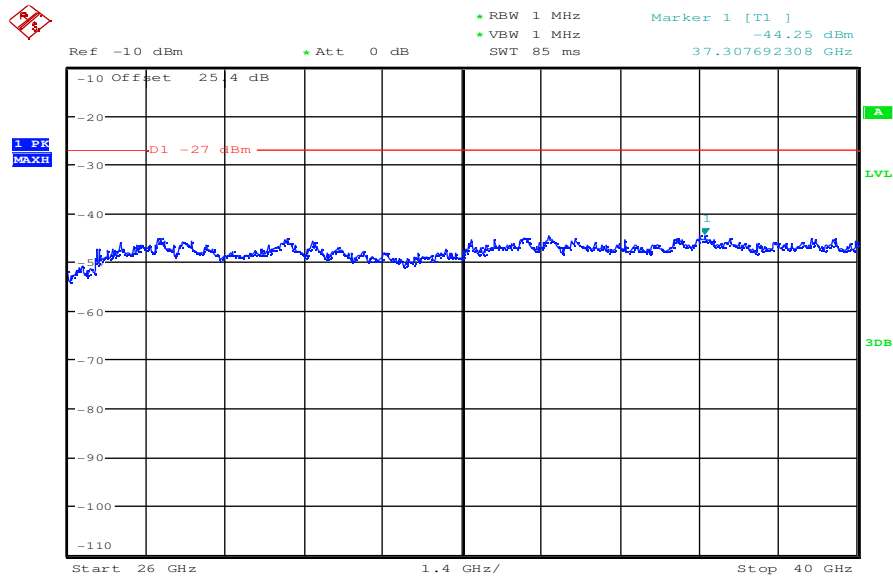
Date: 14.DEC.2010 07:22:01

Plot 21: middle channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 07:52:38

Plot 22: middle channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:11:38

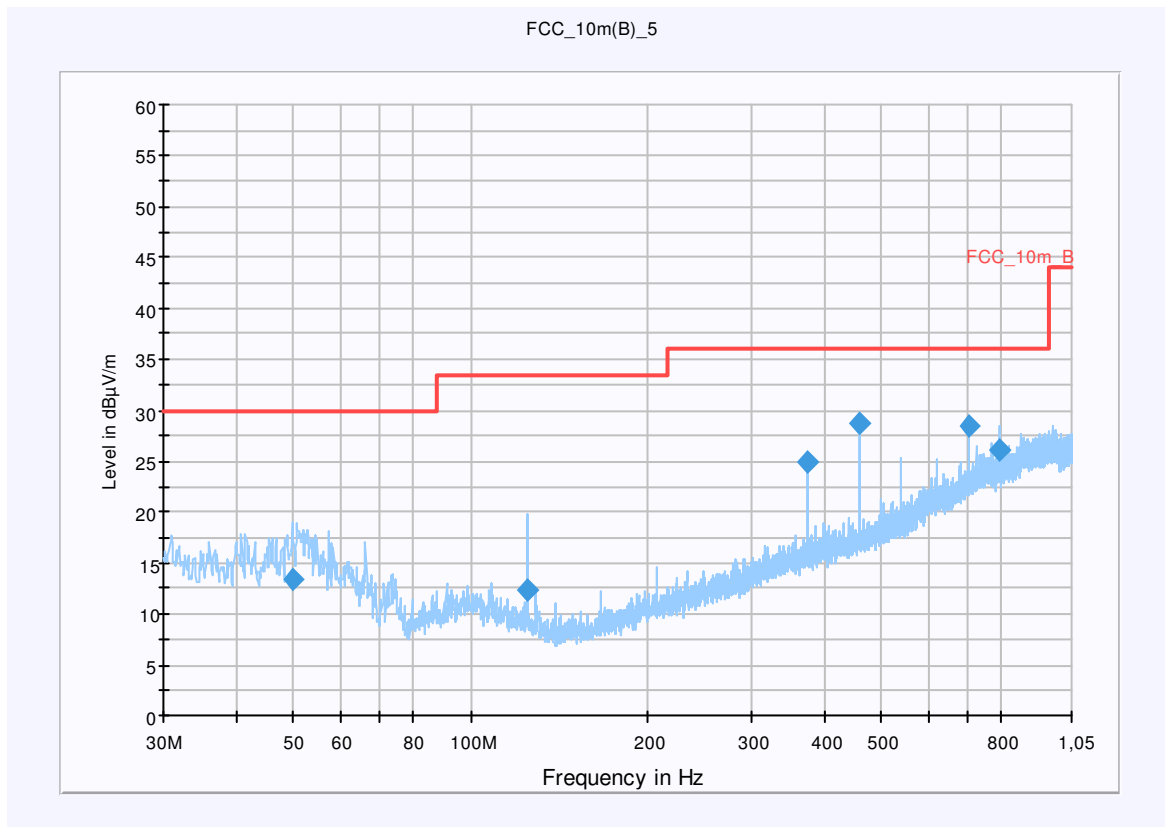
Plot 23: highest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5240 MHz, CH 48, 54 Mbit/s, a mode, power index 21
 Operator Name: Hennemann
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30 MHz - 1,05 GHz QuasiPeak 120 kHz 15 s Receiver



Final Result 1

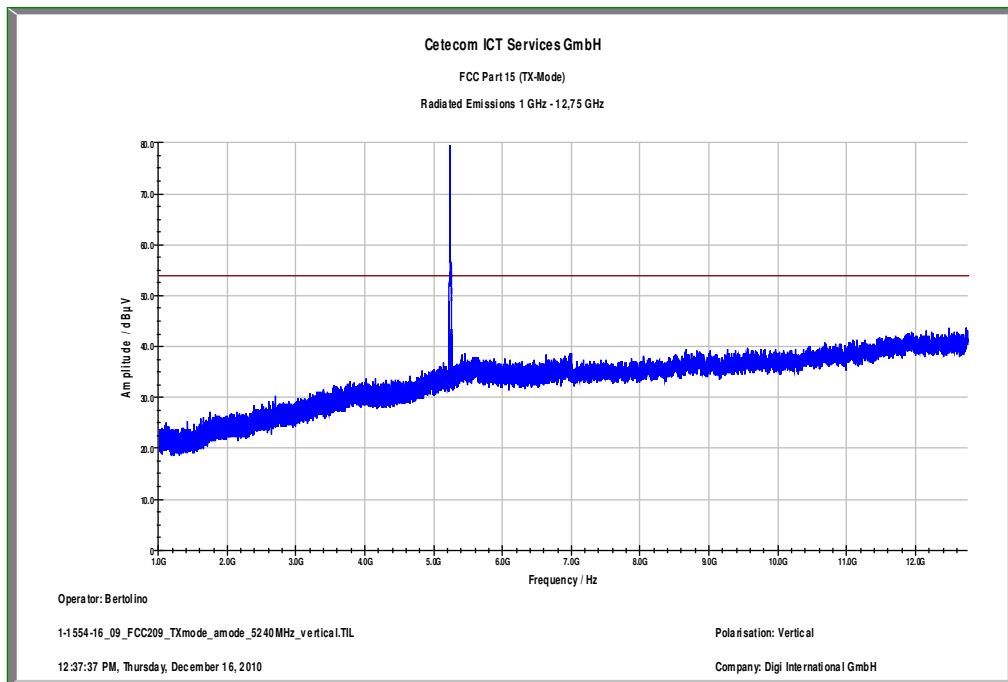
| Frequency (MHz) | QuasiPeak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) | Comment |
|-----------------|--------------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------------|---------|
| 49.800000 | 13.3 | 15000.000 | 120.000 | 98.0 | V | 252.0 | 13.4 | 16.7 | 30.0 | |
| 124.680000 | 12.5 | 15000.000 | 120.000 | 98.0 | V | 99.0 | 9.8 | 21.0 | 33.5 | |
| 374.040000 | 25.0 | 15000.000 | 120.000 | 230.0 | H | 10.0 | 16.5 | 11.0 | 36.0 | |
| 457.200000 | 28.7 | 15000.000 | 120.000 | 170.0 | H | 160.0 | 17.8 | 7.3 | 36.0 | |
| 706.560000 | 28.6 | 15000.000 | 120.000 | 134.0 | H | 160.0 | 22.7 | 7.4 | 36.0 | |
| 789.600000 | 26.2 | 15000.000 | 120.000 | 105.0 | H | -2.0 | 23.8 | 9.8 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

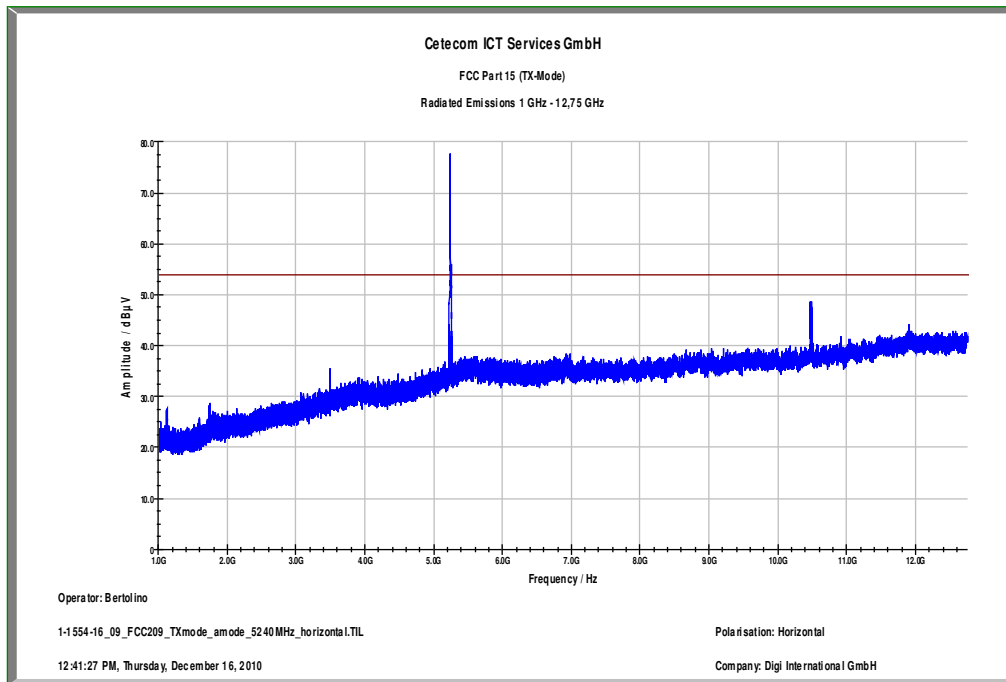
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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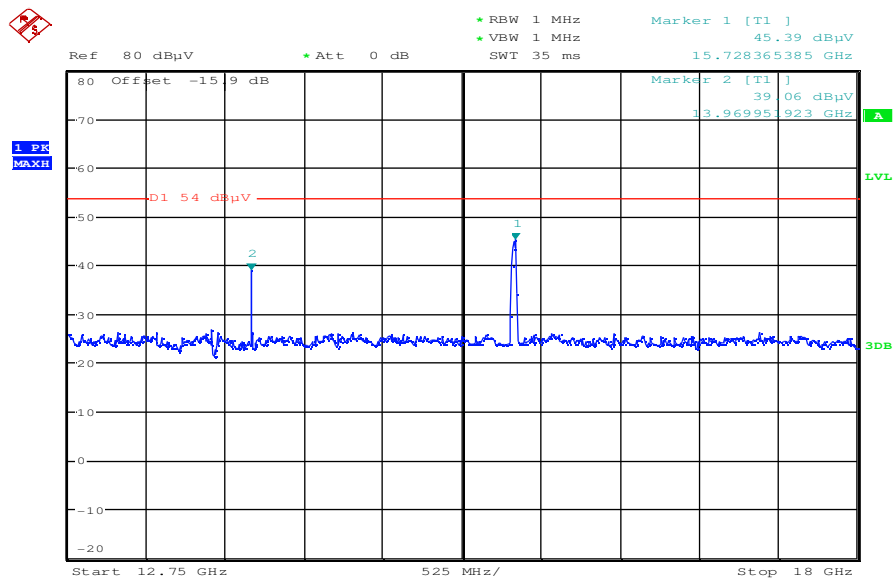
Plot 24: highest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 25: highest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

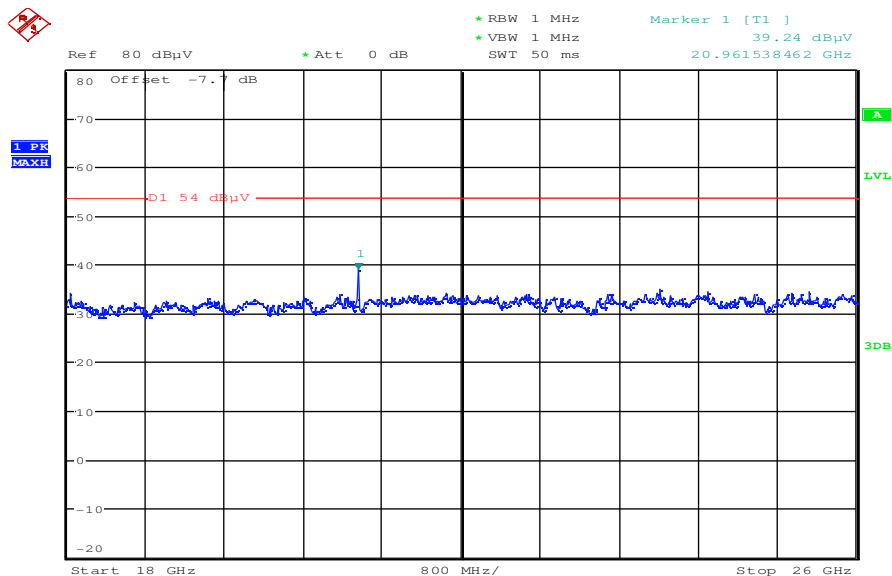


Plot 26: highest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



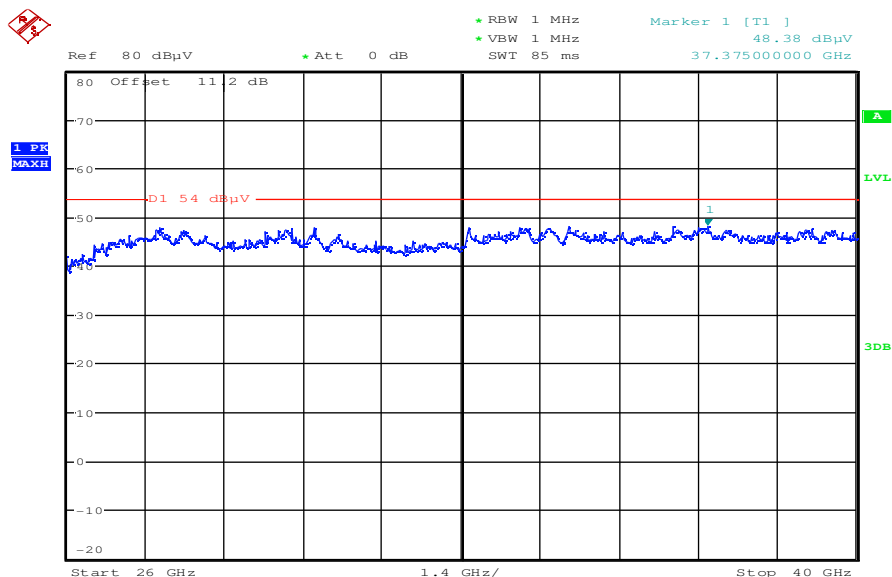
Date: 14.DEC.2010 10:10:40

Plot 27: highest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



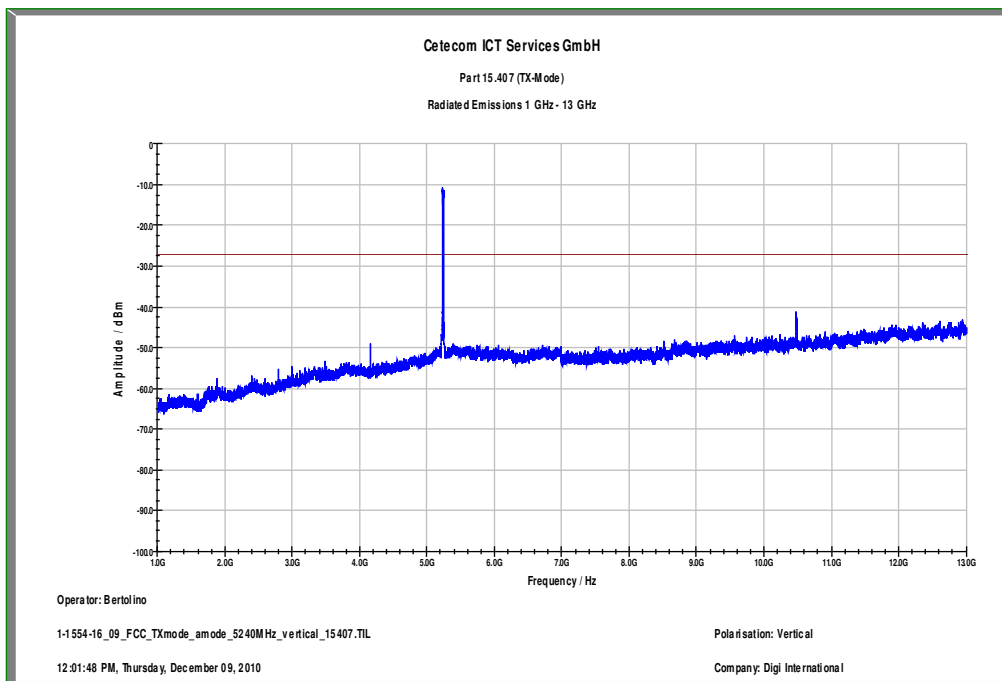
Date: 14.DEC.2010 10:49:49

Plot 28: highest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

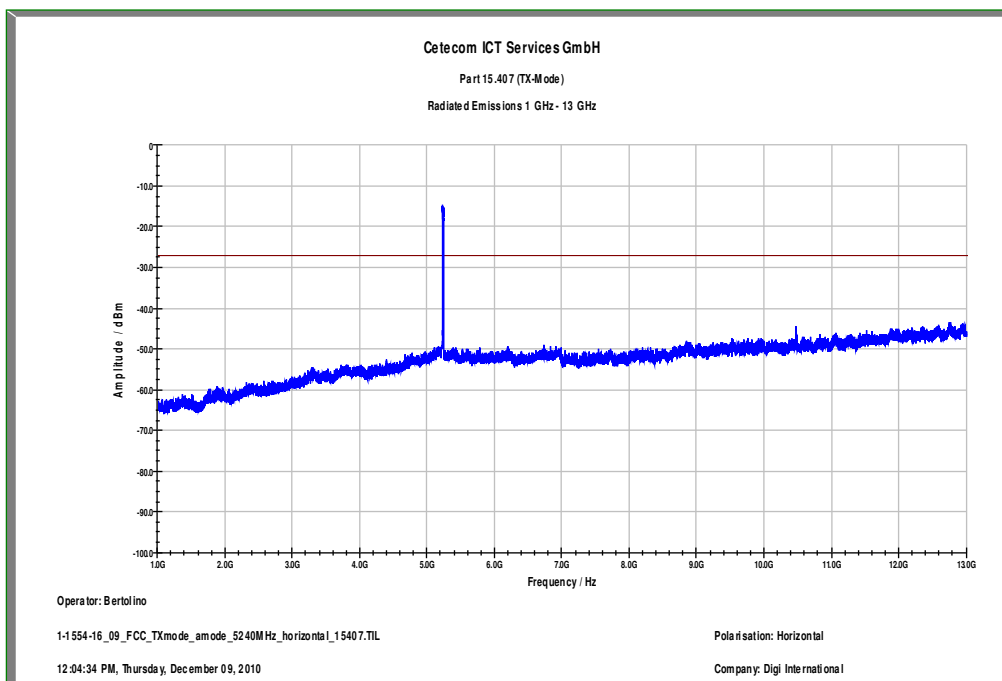


Date: 14.DEC.2010 11:05:26

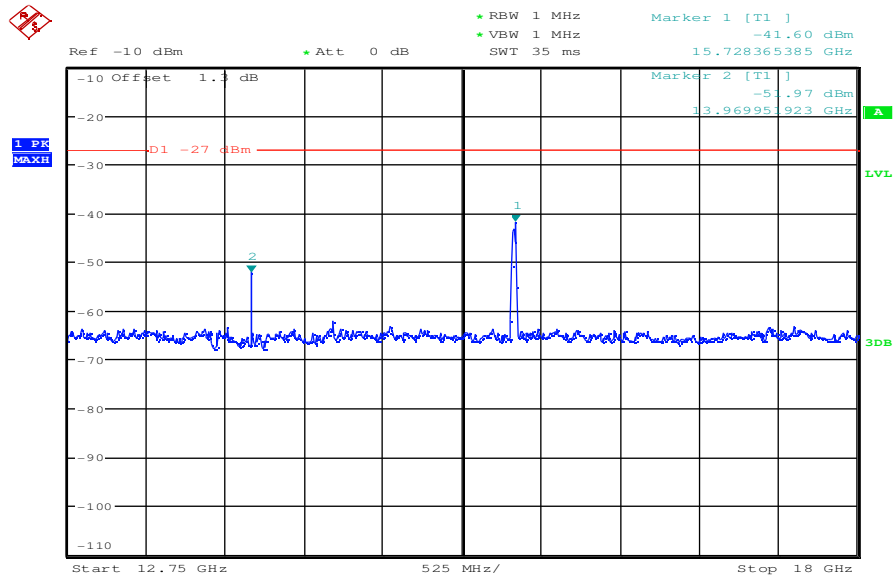
Plot 29: highest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 30: highest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

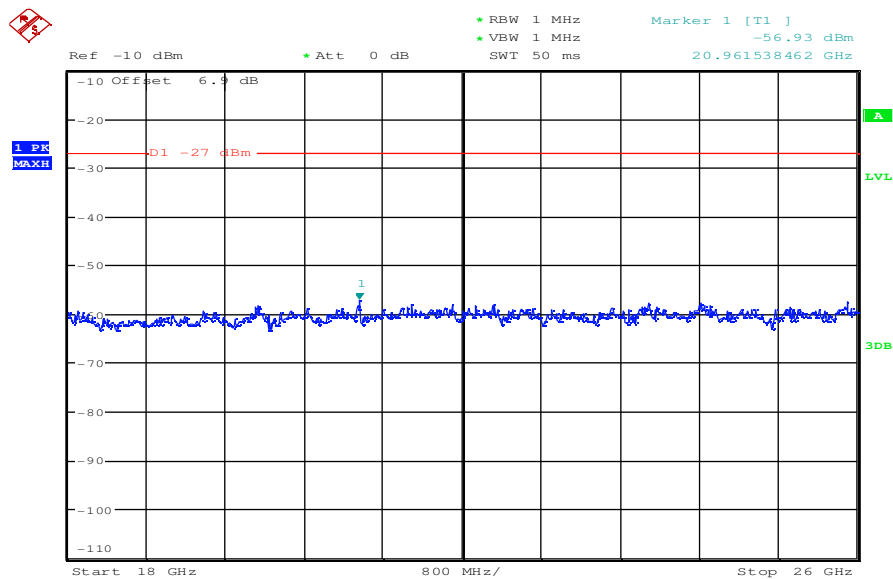


Plot 31: highest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



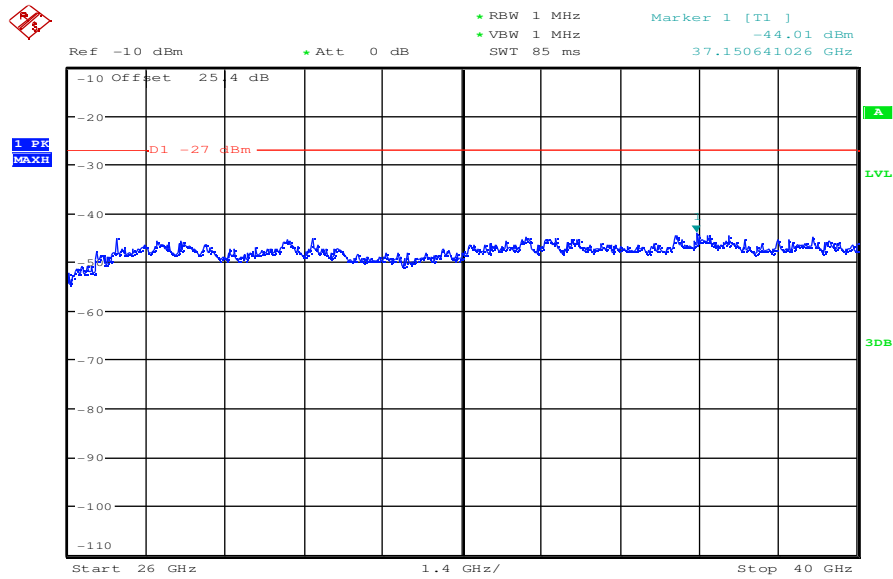
Date: 14.DEC.2010 07:23:01

Plot 32: highest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 07:53:31

Plot 33: highest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:12:23

OFDM – mode / n – mode (mcs7):

Plot 1: lowest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

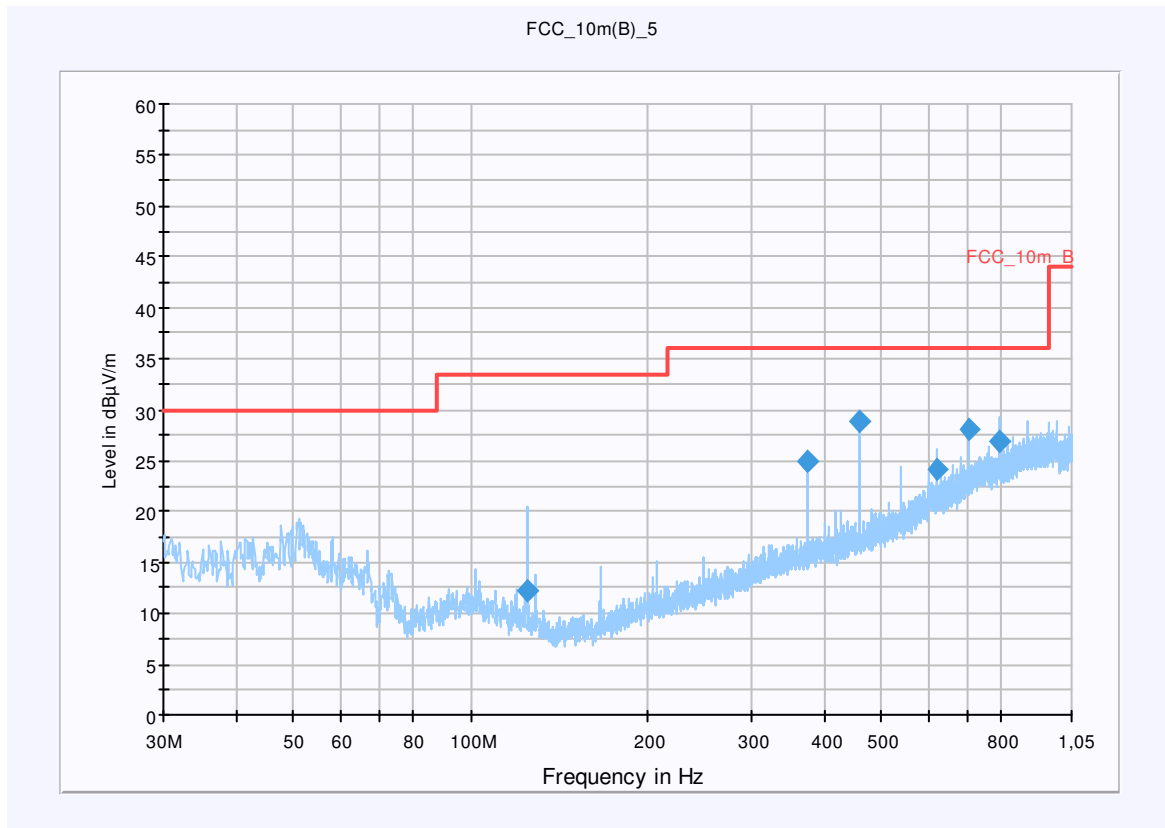
Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5180 MHz, CH 36, mcs 7, n mode, power index 21
 Operator Name: Hennemann
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dBµV/m

| Subrange | Detectors | IF Bandwidth | Meas. Time | Receiver |
|-------------------|-----------|--------------|------------|----------|
| 30 MHz - 1,05 GHz | QuasiPeak | 120 kHz | 15 s | Receiver |



Final Result 1

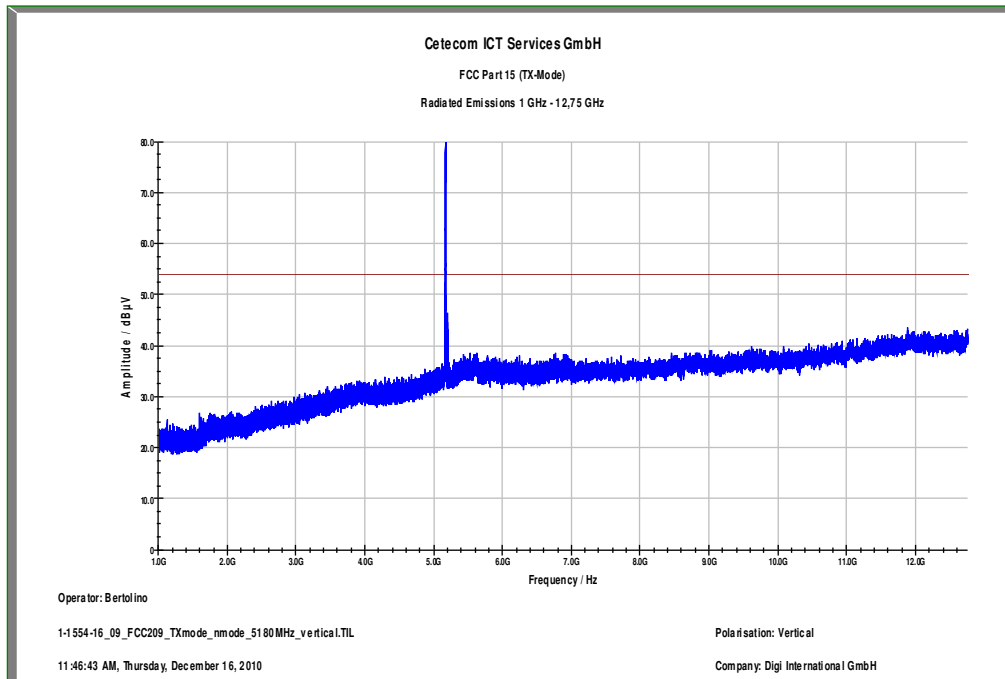
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) | Comment |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------|---------|
| 124.680000 | 12.2 | 15000.000 | 120.000 | 98.0 | V | 173.0 | 9.8 | 21.3 | 33.5 | |
| 374.040000 | 25.0 | 15000.000 | 120.000 | 230.0 | H | 9.0 | 16.5 | 11.0 | 36.0 | |
| 457.200000 | 28.9 | 15000.000 | 120.000 | 203.0 | H | 164.0 | 17.8 | 7.1 | 36.0 | |
| 623.400000 | 24.1 | 15000.000 | 120.000 | 143.0 | H | 44.0 | 20.9 | 11.9 | 36.0 | |
| 706.560000 | 28.1 | 15000.000 | 120.000 | 130.0 | H | 312.0 | 22.7 | 7.9 | 36.0 | |
| 789.720000 | 27.0 | 15000.000 | 120.000 | 98.0 | H | 151.0 | 23.8 | 9.0 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

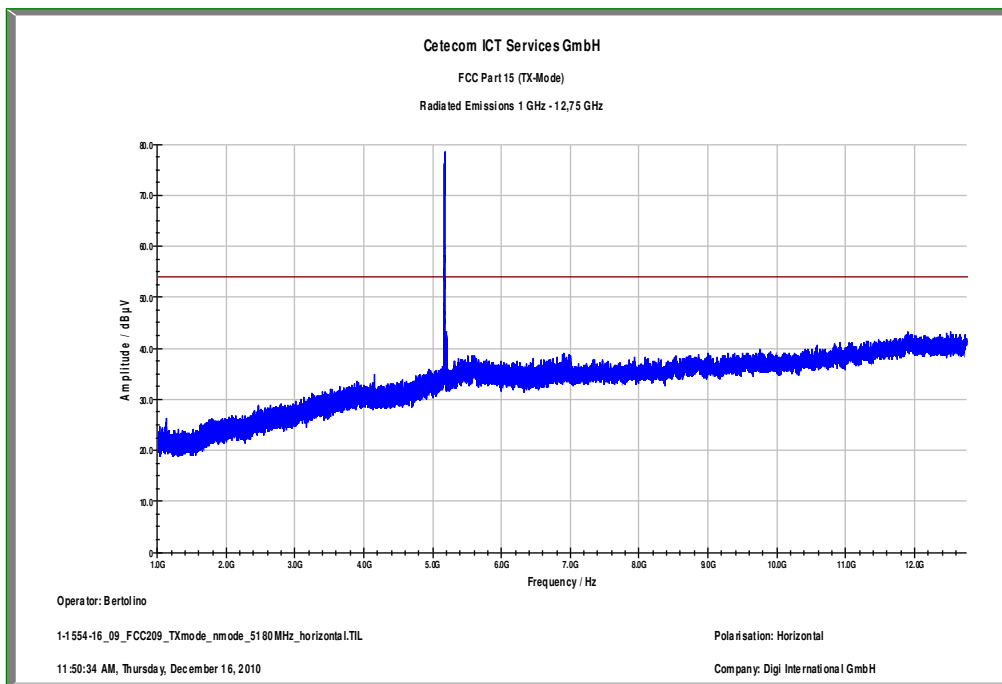
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 |
| Antenna Tower: | Correction Table: Cable_EN_1GHz (0909) Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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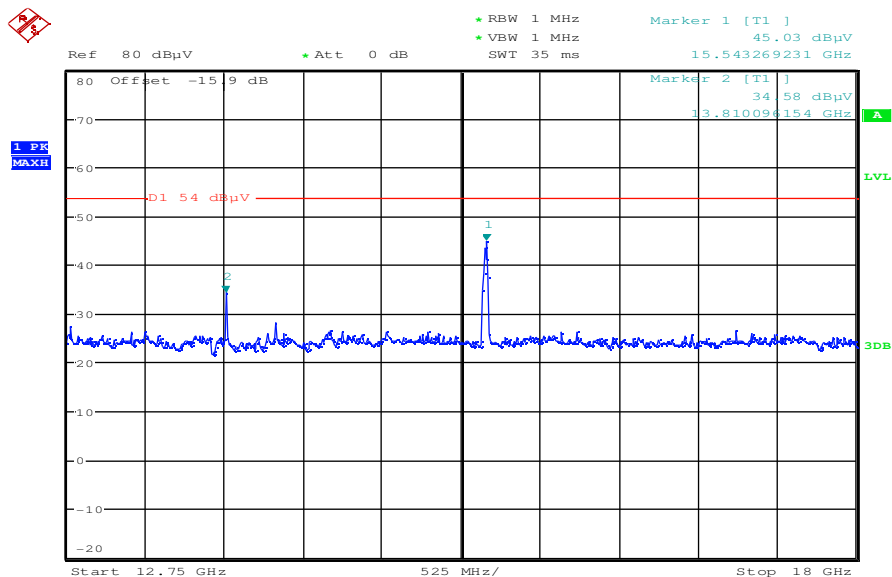
Plot 2: lowest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 3: lowest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

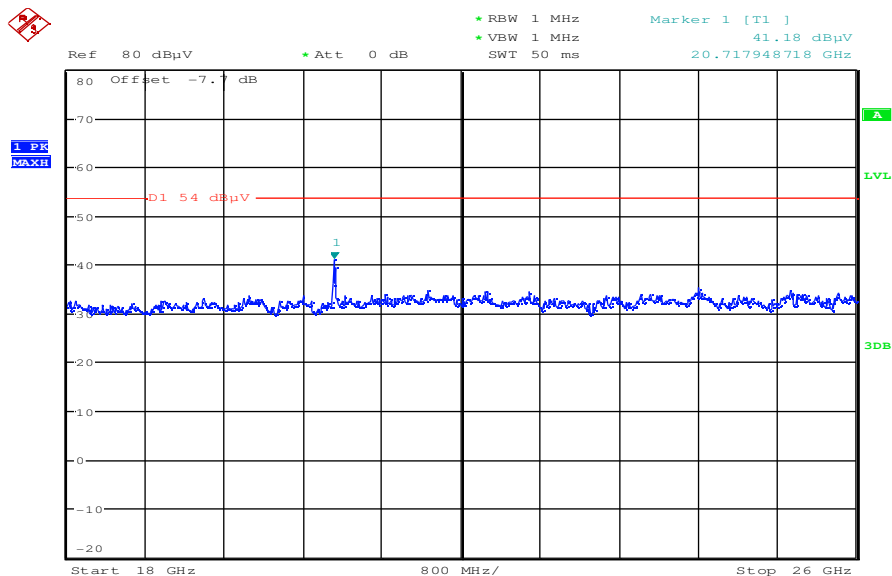


Plot 4: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



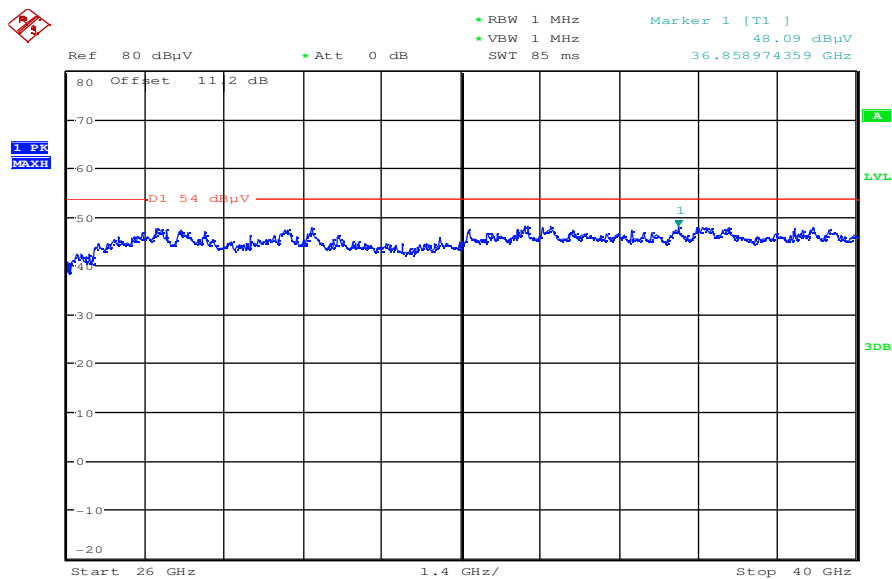
Date: 14.DEC.2010 10:20:21

Plot 5: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



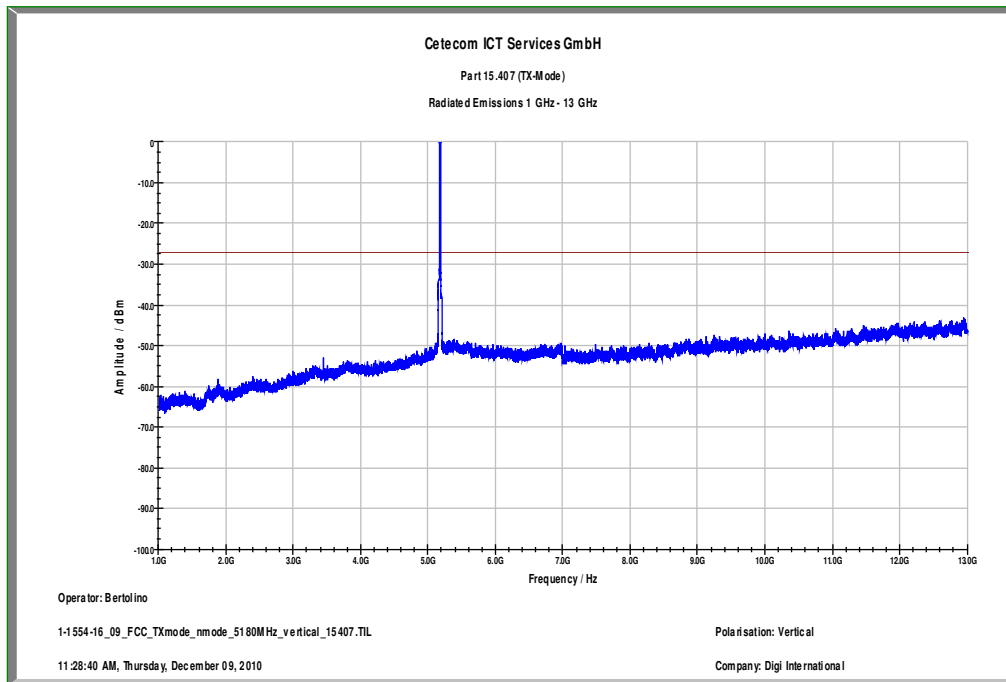
Date: 14.DEC.2010 10:55:05

Plot 6: lowest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

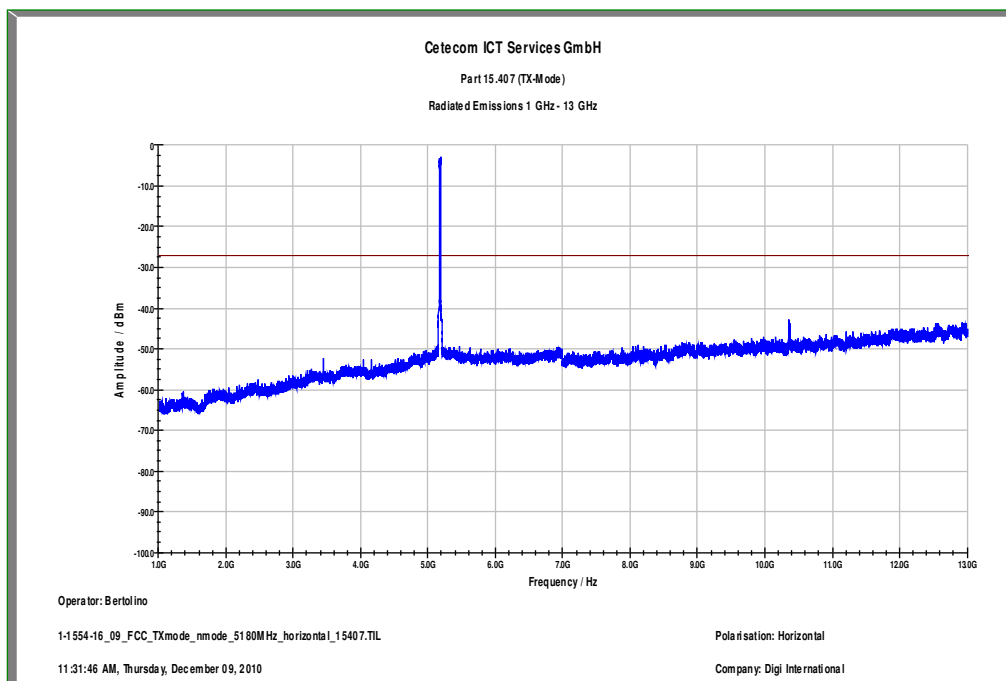


Date: 14.DEC.2010 11:12:08

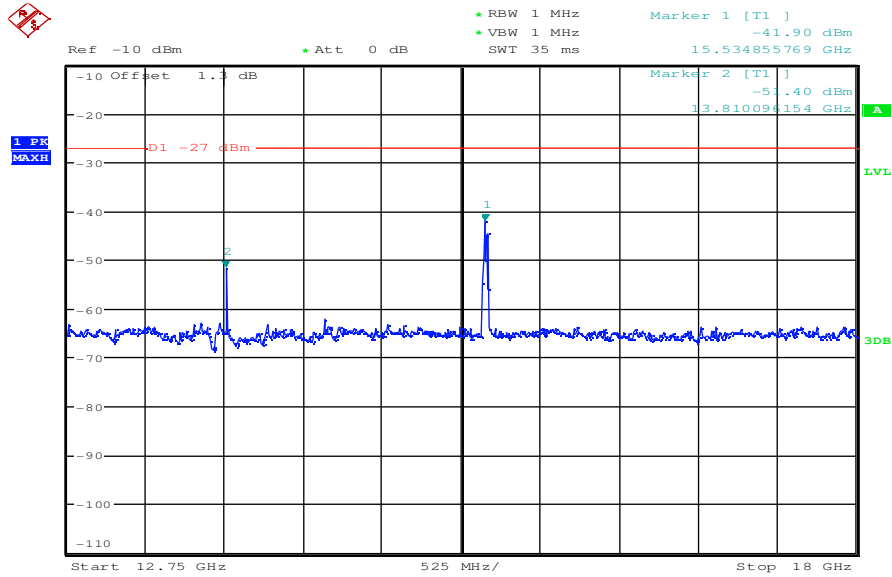
Plot 7: lowest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 8: lowest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

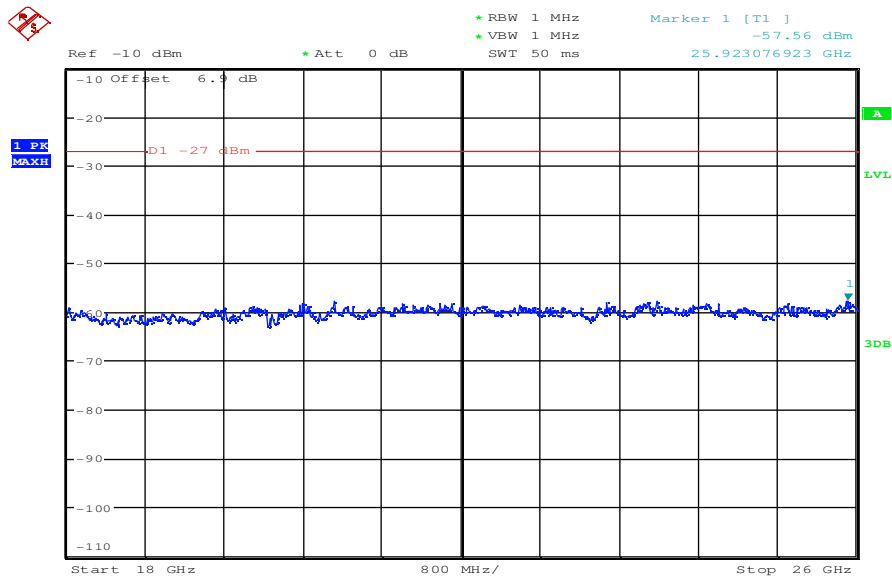


Plot 9: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



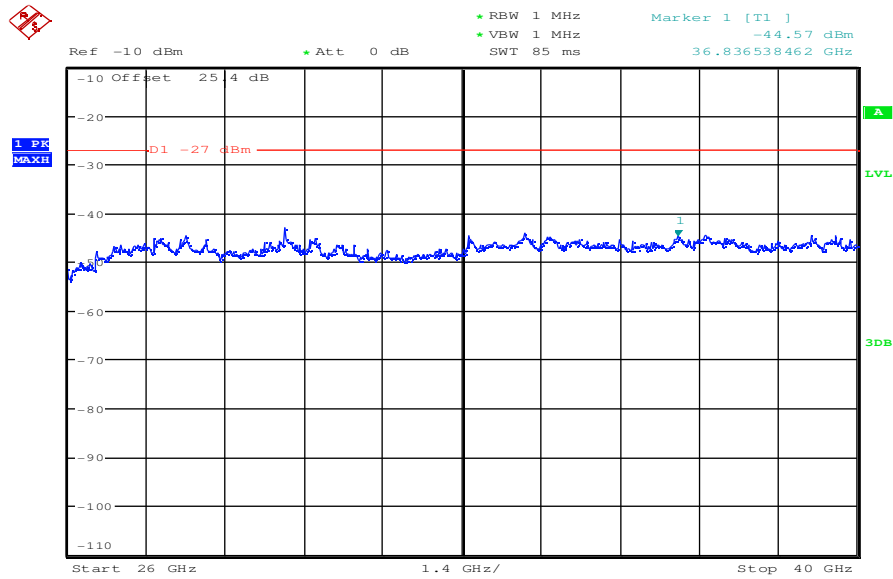
Date: 14.DEC.2010 07:33:35

Plot 10: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:00:26

Plot 11: lowest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:40:20

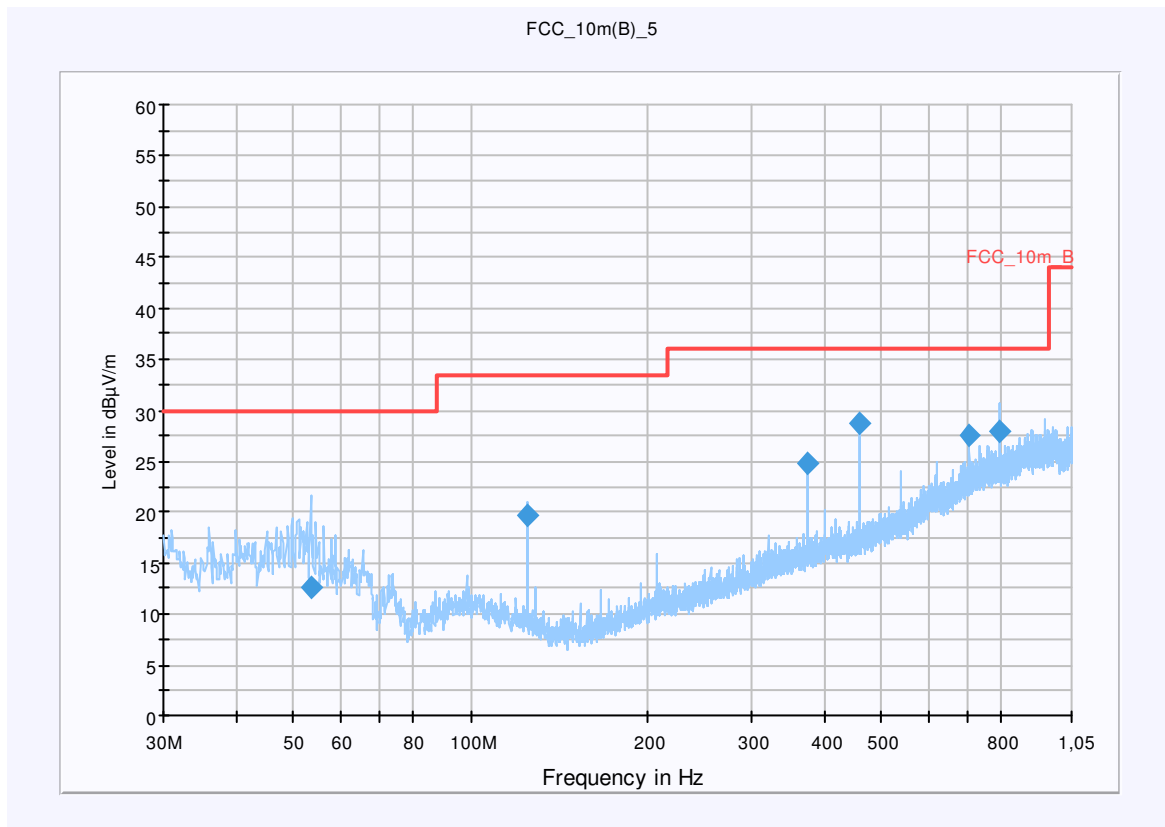
Plot 12: middle channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5200 MHz, CH 40, mcs 7, n mode, power index 21
 Operator Name: Hennemann
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30 MHz - 1,05 GHz QuasiPeak 120 kHz 15 s Receiver



Final Result 1

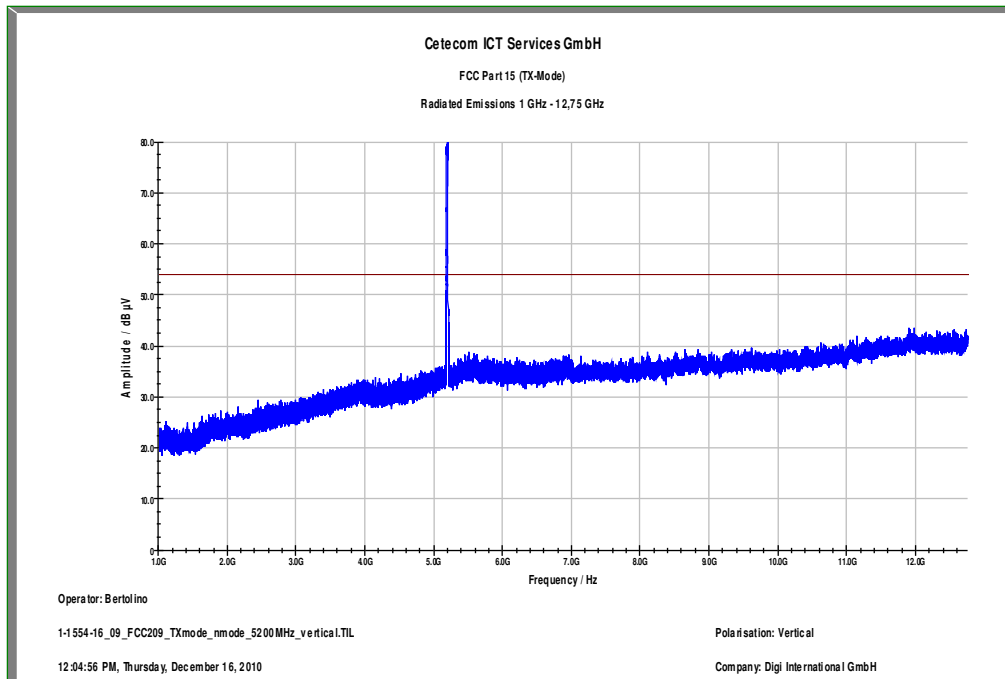
| Frequency (MHz) | QuasiPeak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) | Comment |
|-----------------|--------------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------------|---------|
| 53.400000 | 12.6 | 15000.000 | 120.000 | 270.0 | V | 97.0 | 13.0 | 17.4 | 30.0 | |
| 124.680000 | 19.7 | 15000.000 | 120.000 | 135.0 | V | 113.0 | 9.8 | 13.8 | 33.5 | |
| 374.040000 | 24.9 | 15000.000 | 120.000 | 219.0 | H | 13.0 | 16.5 | 11.1 | 36.0 | |
| 457.200000 | 28.8 | 15000.000 | 120.000 | 200.0 | H | 163.0 | 17.8 | 7.2 | 36.0 | |
| 706.560000 | 27.5 | 15000.000 | 120.000 | 98.0 | H | 307.0 | 22.7 | 8.5 | 36.0 | |
| 789.600000 | 27.9 | 15000.000 | 120.000 | 112.0 | H | 150.0 | 23.8 | 8.1 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

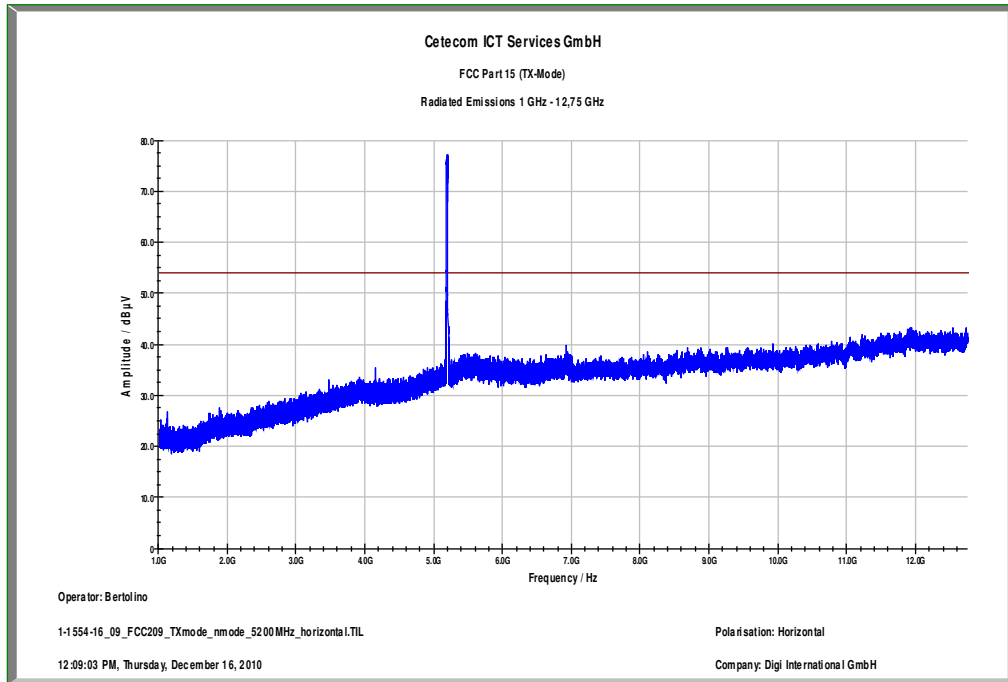
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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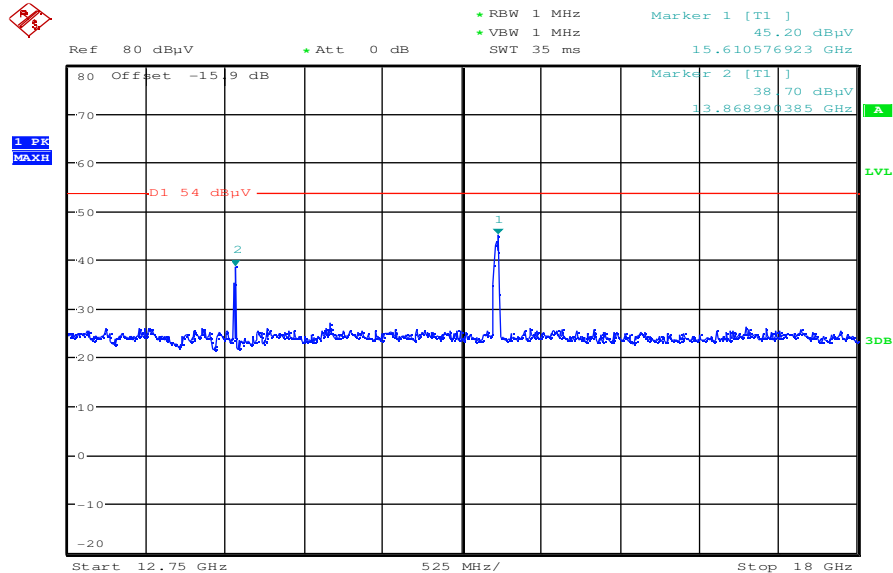
Plot 13: middle channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 14: middle channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

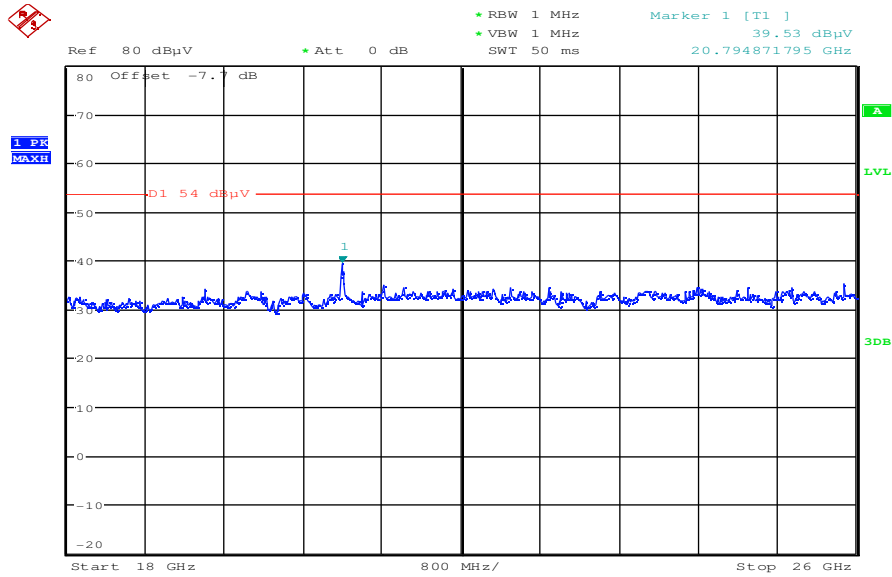


Plot 15: middle channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



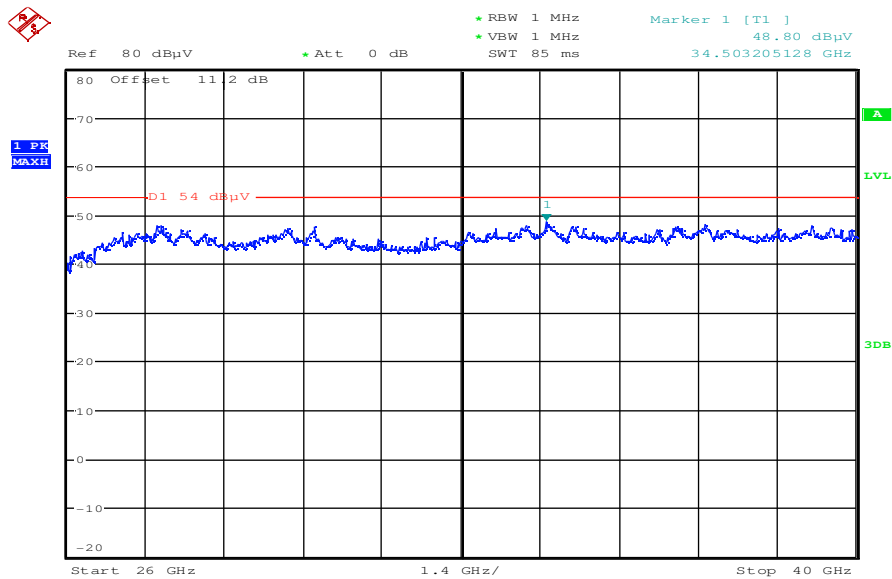
Date: 14.DEC.2010 10:21:34

Plot 16: middle channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



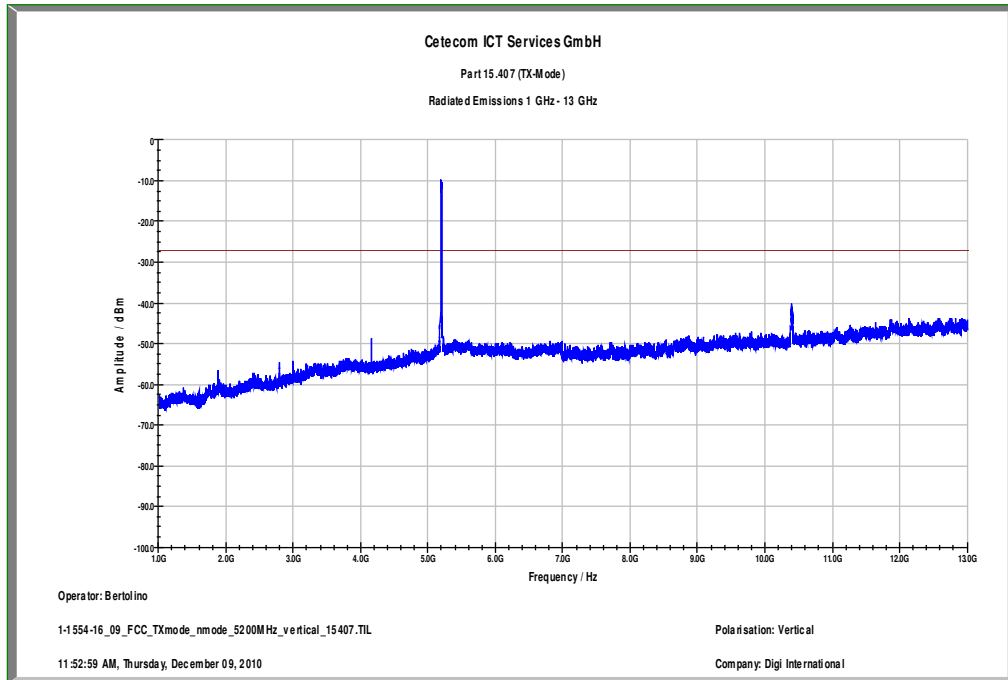
Date: 14.DEC.2010 10:55:59

Plot 17: middle channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

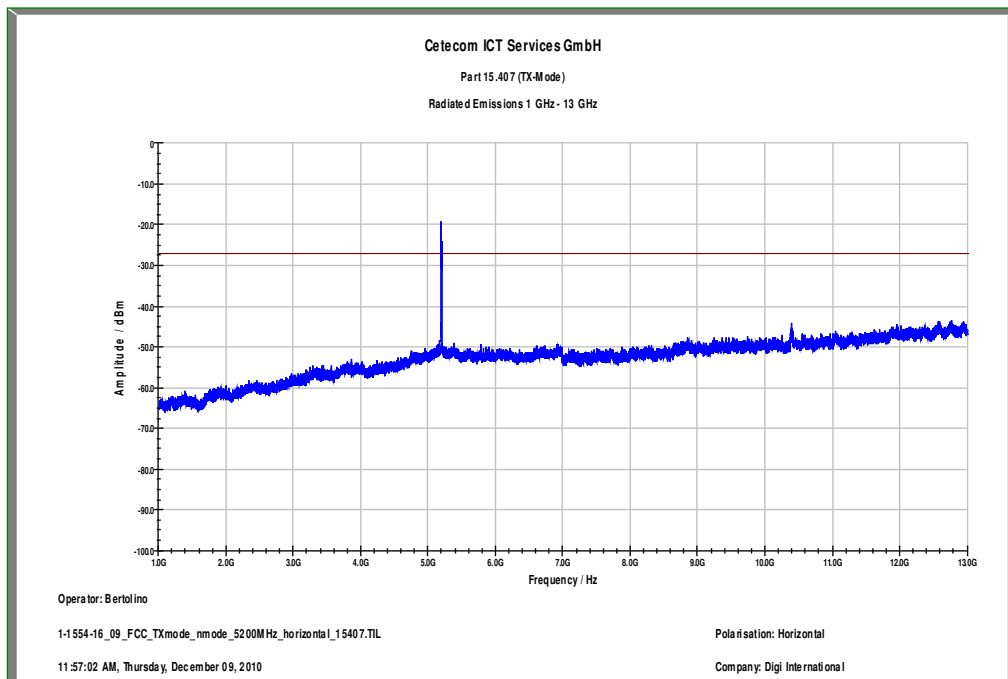


Date: 14.DEC.2010 11:12:36

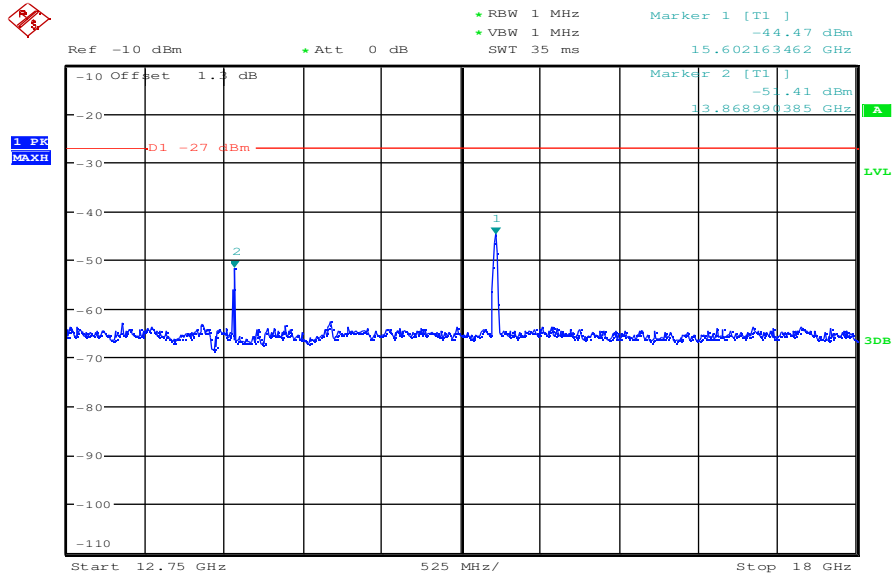
Plot 18: middle channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 19: middle channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

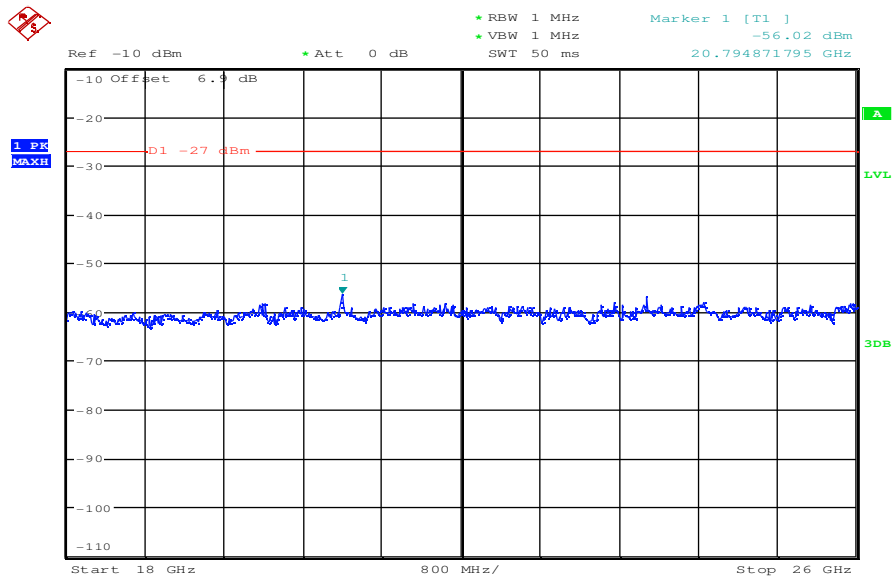


Plot 20: middle channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



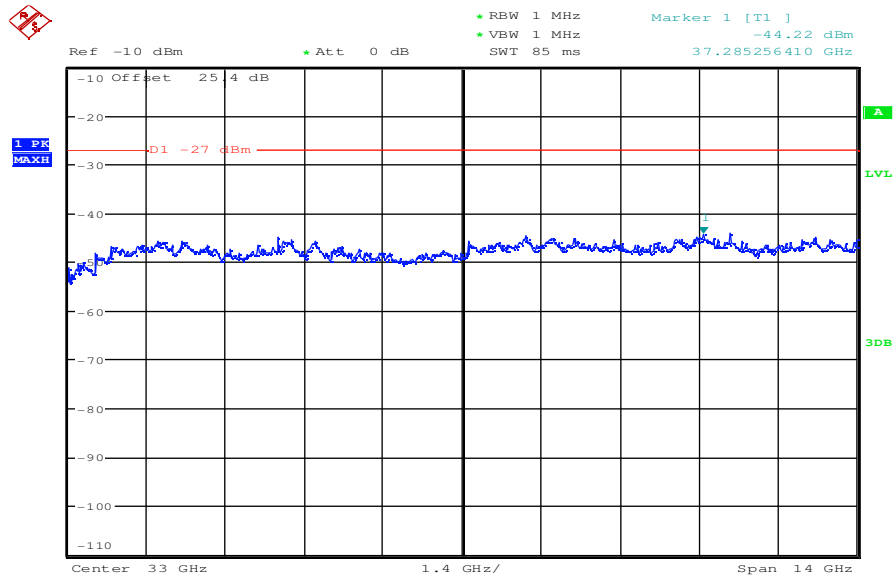
Date: 14.DEC.2010 07:35:08

Plot 21: middle channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:01:21

Plot 22: middle channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:44:46

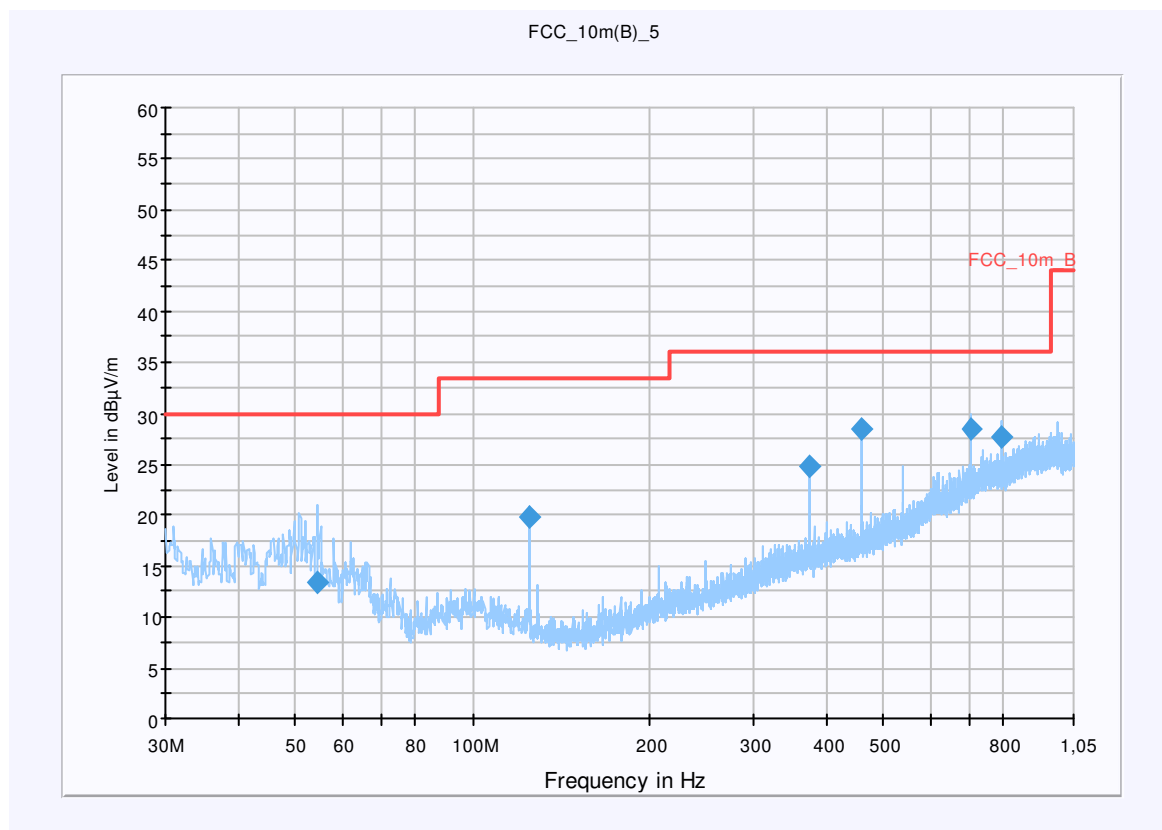
Plot 23: highest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5240 MHz, CH 48, mcs 7, n mode, power index 21
 Operator Name: Hennemann
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m
Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30 MHz - 1,05 GHz QuasiPeak 120 kHz 15 s Receiver



Final Result 1

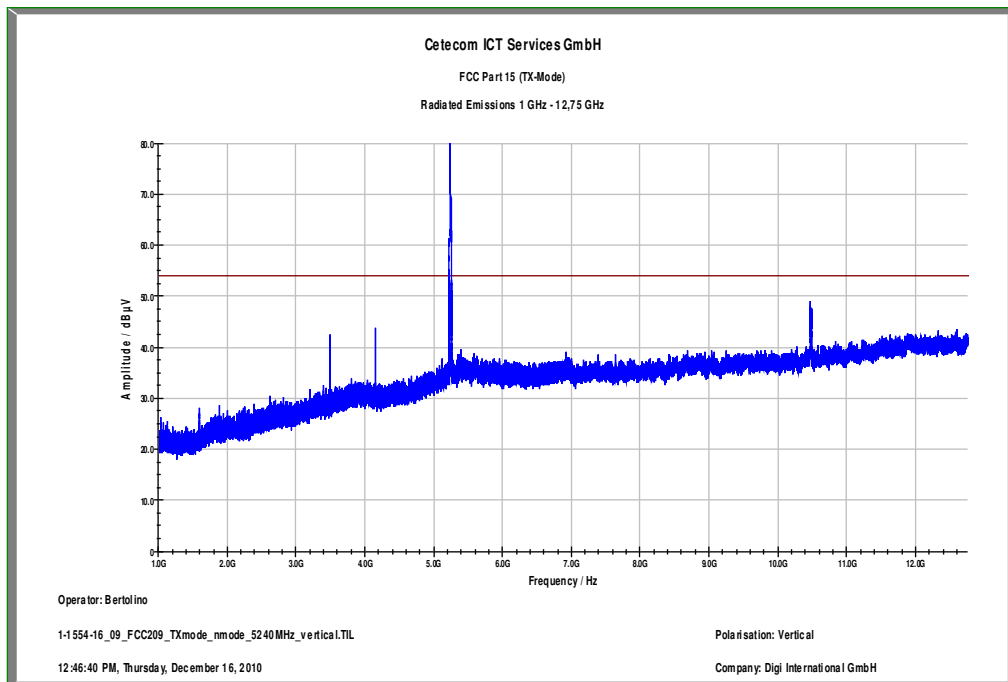
| Frequency (MHz) | QuasiPeak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) | Comment |
|-----------------|--------------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------------|---------|
| 54.480000 | 13.4 | 15000.000 | 120.000 | 270.0 | V | 291.0 | 12.9 | 16.6 | 30.0 | |
| 124.680000 | 19.9 | 15000.000 | 120.000 | 137.0 | V | 194.0 | 9.8 | 13.6 | 33.5 | |
| 374.040000 | 24.8 | 15000.000 | 120.000 | 231.0 | H | -2.0 | 16.5 | 11.2 | 36.0 | |
| 457.200000 | 28.6 | 15000.000 | 120.000 | 172.0 | H | 152.0 | 17.8 | 7.4 | 36.0 | |
| 706.560000 | 28.5 | 15000.000 | 120.000 | 136.0 | H | 152.0 | 22.7 | 7.5 | 36.0 | |
| 789.600000 | 27.7 | 15000.000 | 120.000 | 111.0 | H | 143.0 | 23.8 | 8.3 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

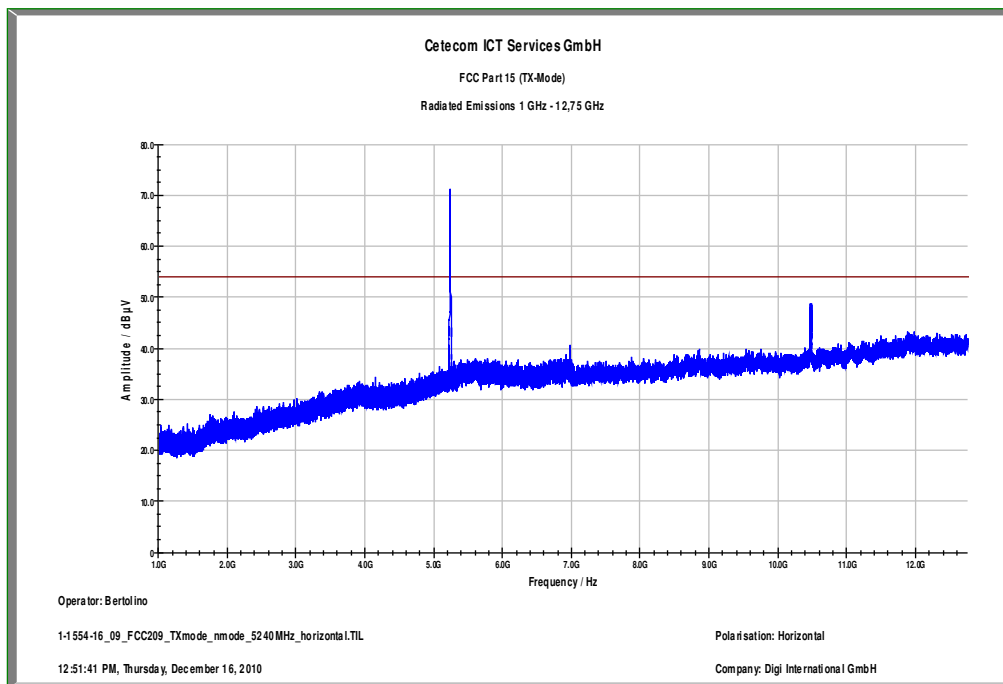
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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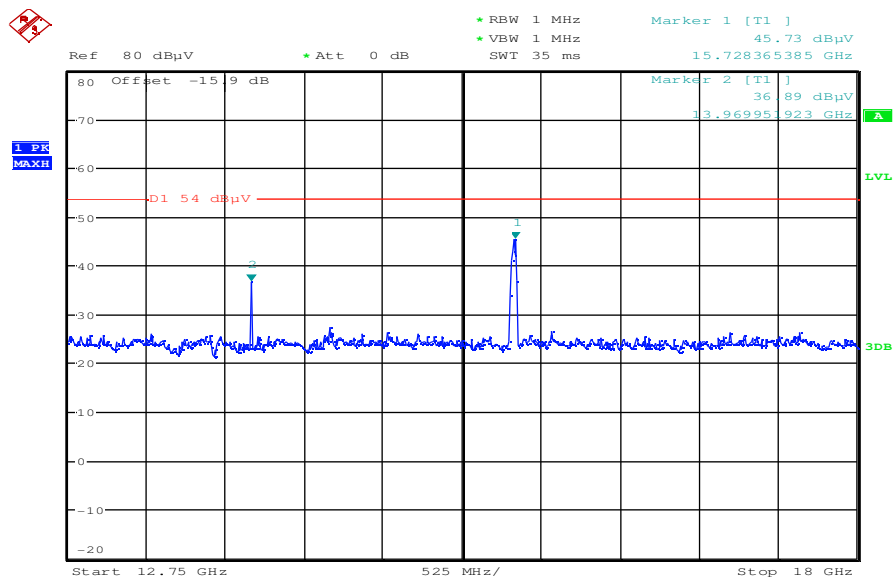
Plot 24: highest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 25: highest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

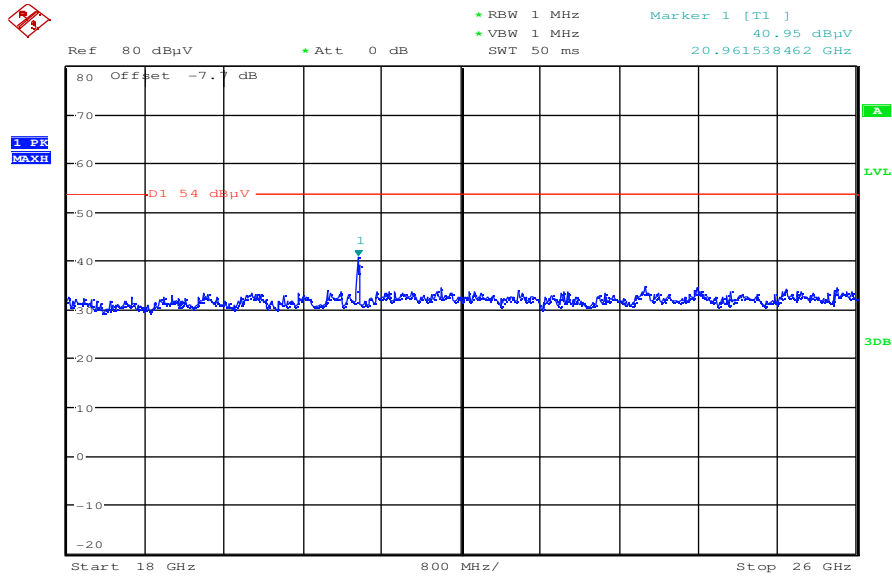


Plot 26: highest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



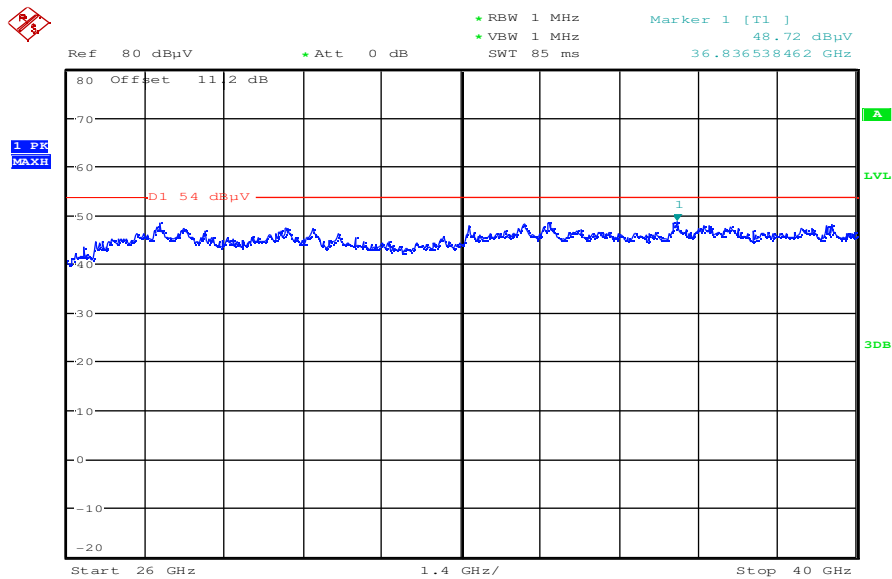
Date: 14.DEC.2010 10:23:27

Plot 27: highest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



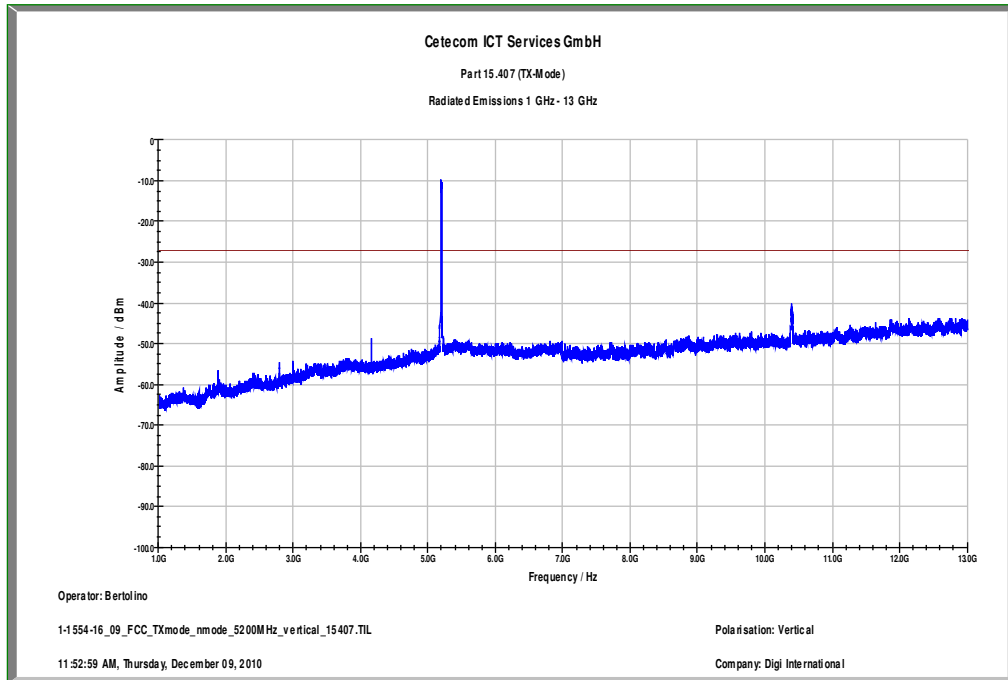
Date: 14.DEC.2010 10:56:46

Plot 28: highest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

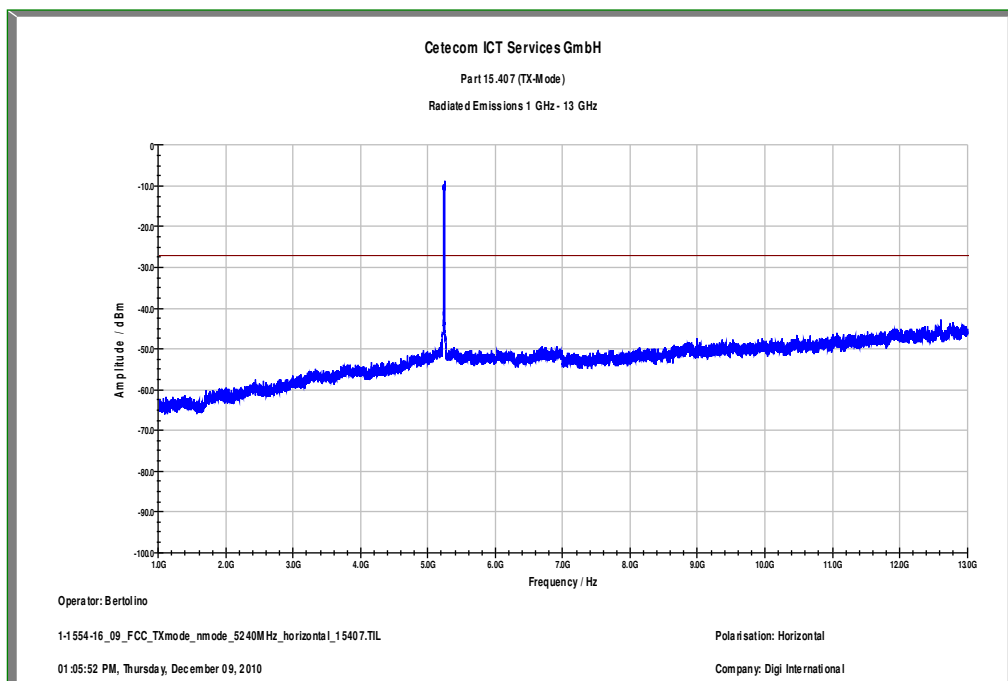


Date: 14.DEC.2010 11:13:25

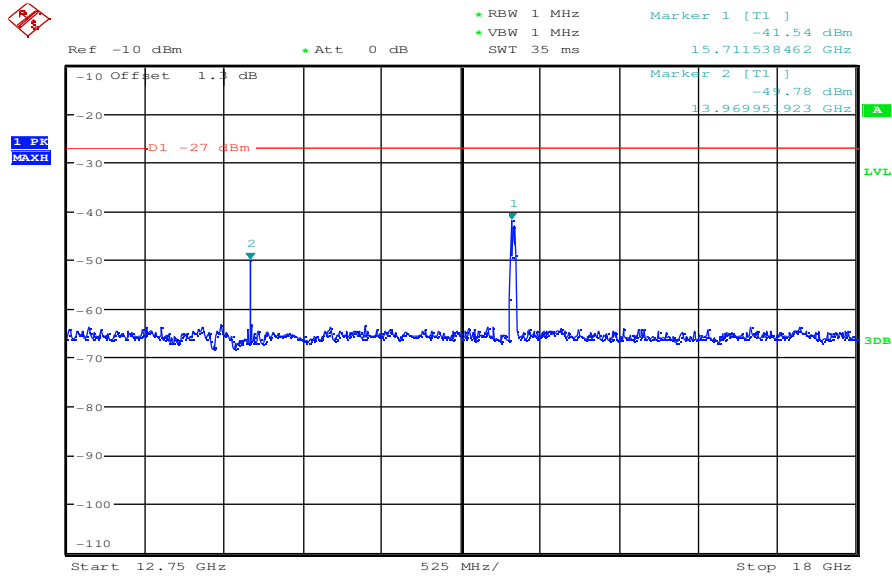
Plot 29: highest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 30: highest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

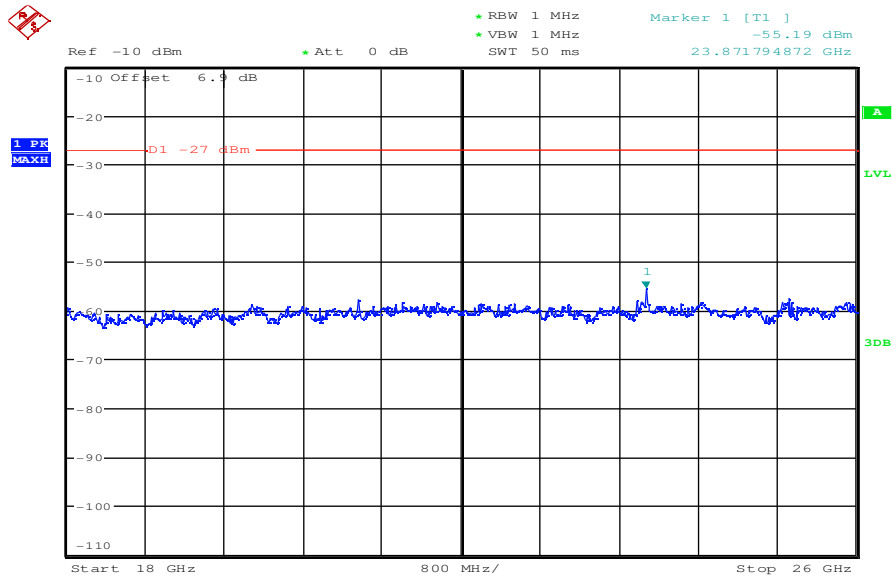


Plot 31: highest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



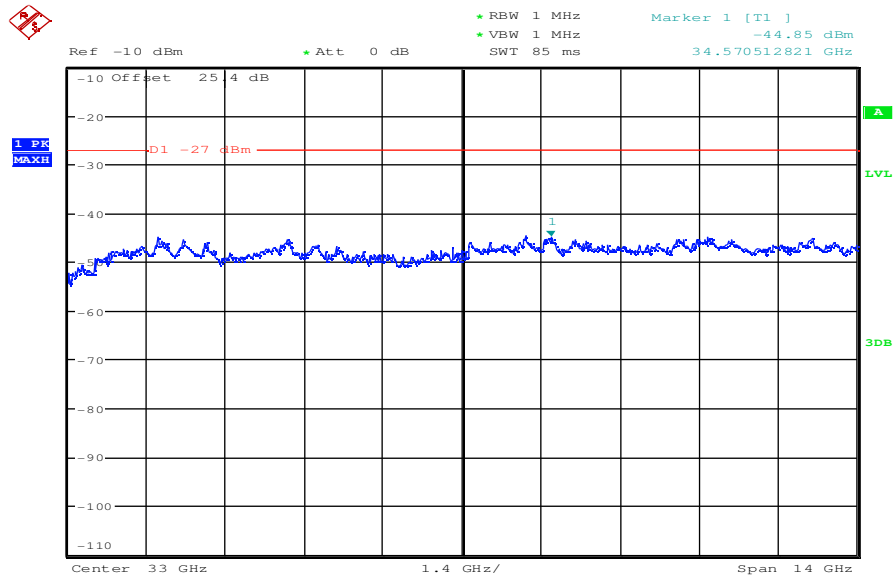
Date: 14.DEC.2010 07:36:57

Plot 32: highest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:02:03

Plot 33: highest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:45:24

Band 1: 5250 MHz to 5350 MHz

OFDM – mode / a – mode (54 MBit/s):

Plot 1: lowest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

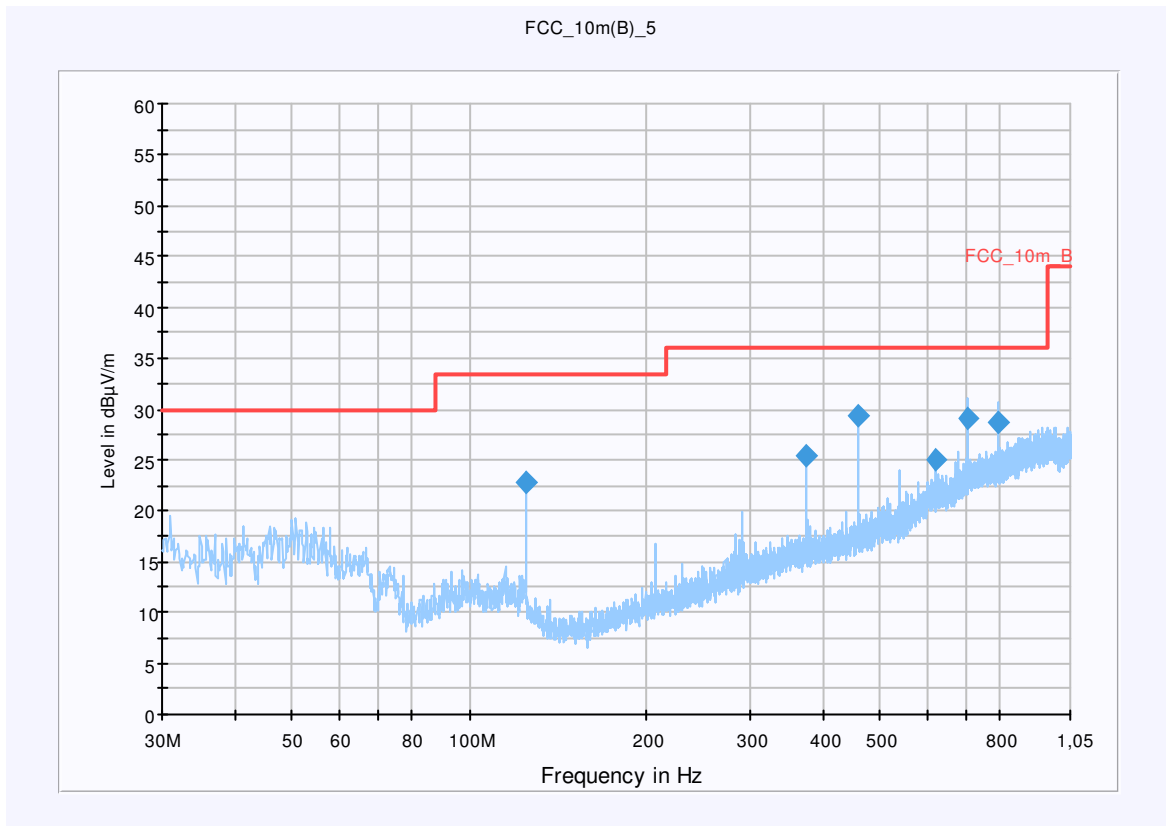
Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5260 MHz, CH 52, 54 Mbit/s, a mode, power index 21
 Operator Name: Merten
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dBµV/m

| Subrange | Detectors | IF Bandwidth | Meas. Time | Receiver |
|-------------------|-----------|--------------|------------|----------|
| 30 MHz - 1,05 GHz | QuasiPeak | 120 kHz | 15 s | Receiver |



Final Result 1

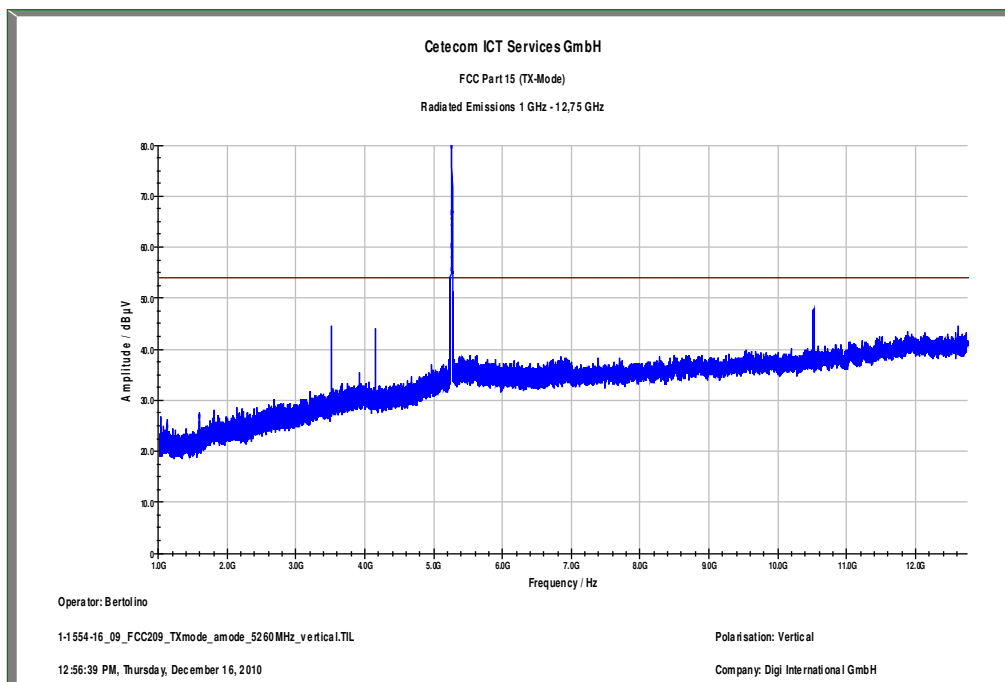
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) | Comment |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------|---------|
| 124.680000 | 22.8 | 15000.000 | 120.000 | 98.0 | V | 228.0 | 9.8 | 10.7 | 33.5 | |
| 374.040000 | 25.4 | 15000.000 | 120.000 | 226.0 | H | -2.0 | 16.5 | 10.6 | 36.0 | |
| 457.200000 | 29.3 | 15000.000 | 120.000 | 207.0 | H | 173.0 | 17.8 | 6.7 | 36.0 | |
| 623.400000 | 25.1 | 15000.000 | 120.000 | 142.0 | H | 30.0 | 20.9 | 10.9 | 36.0 | |
| 706.560000 | 29.1 | 15000.000 | 120.000 | 98.0 | H | 173.0 | 22.7 | 6.9 | 36.0 | |
| 789.600000 | 28.7 | 15000.000 | 120.000 | 98.0 | H | 151.0 | 23.8 | 7.3 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

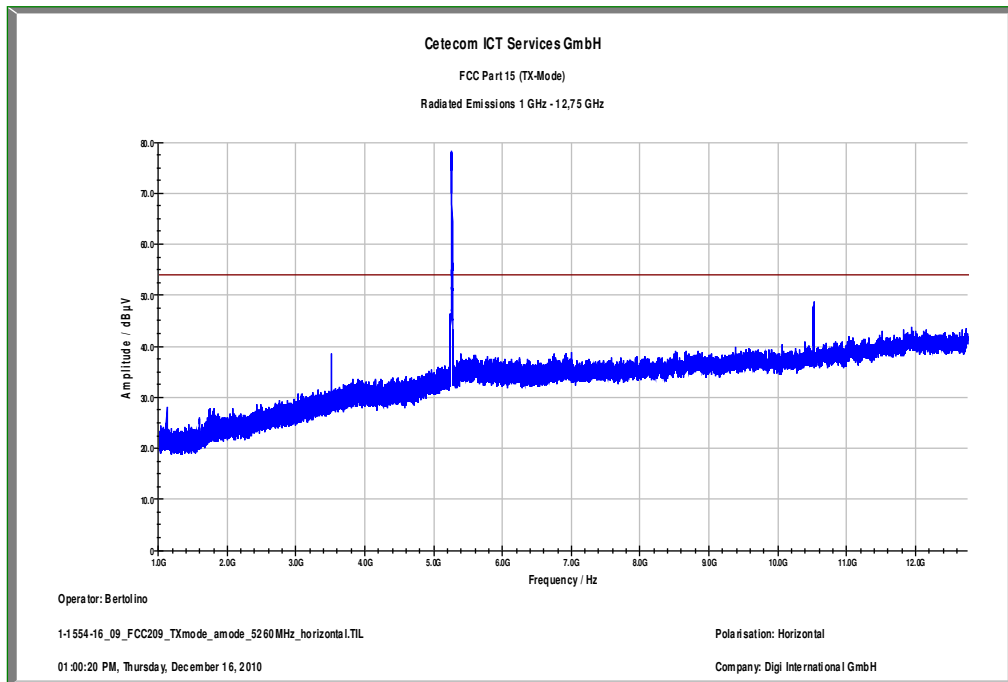
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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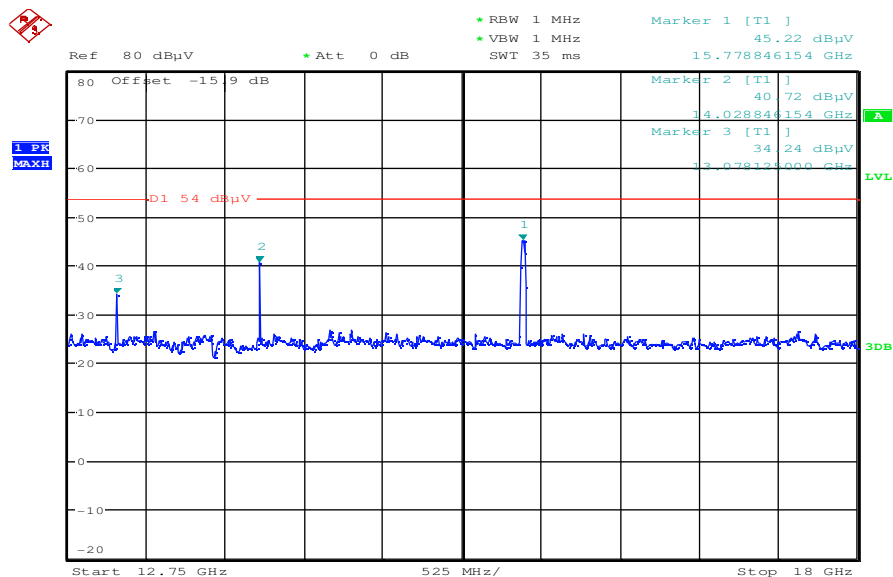
Plot 2: lowest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 3: lowest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

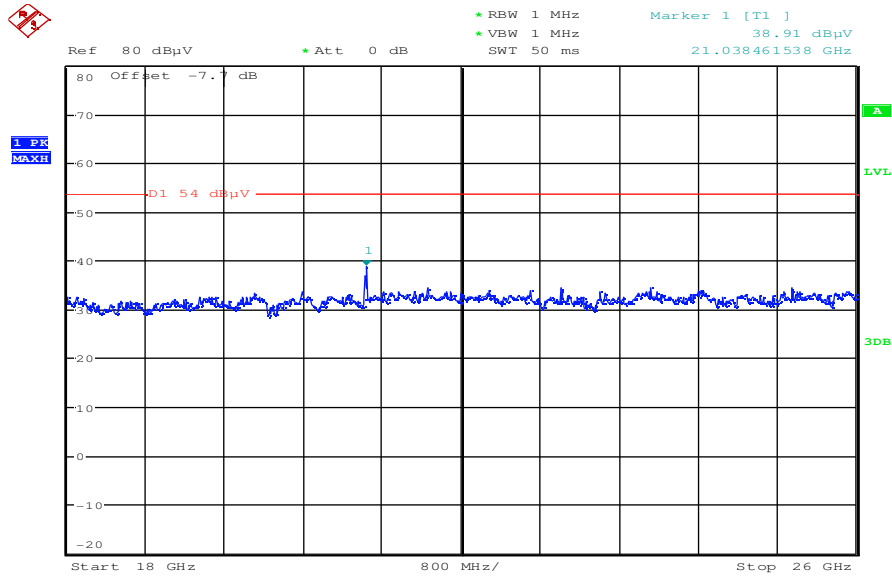


Plot 4: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



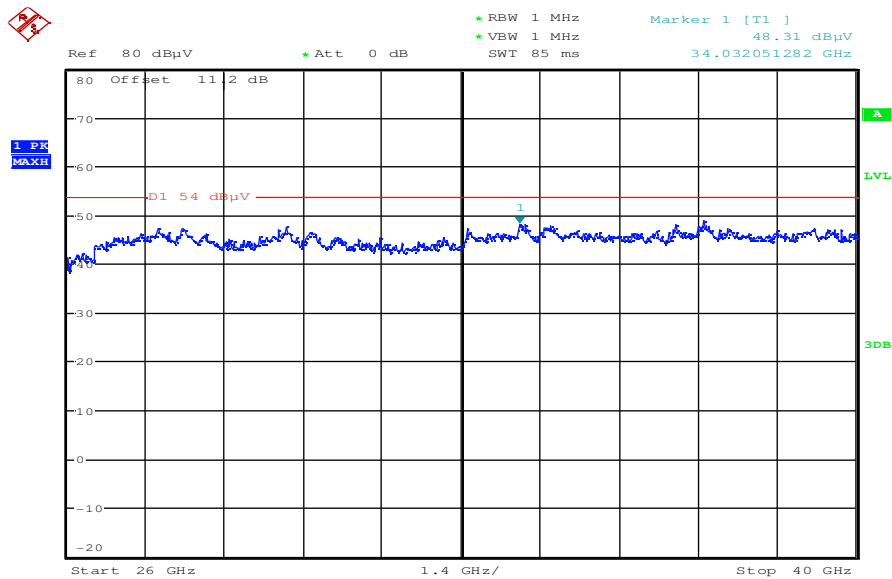
Date: 14.DEC.2010 10:11:50

Plot 5: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



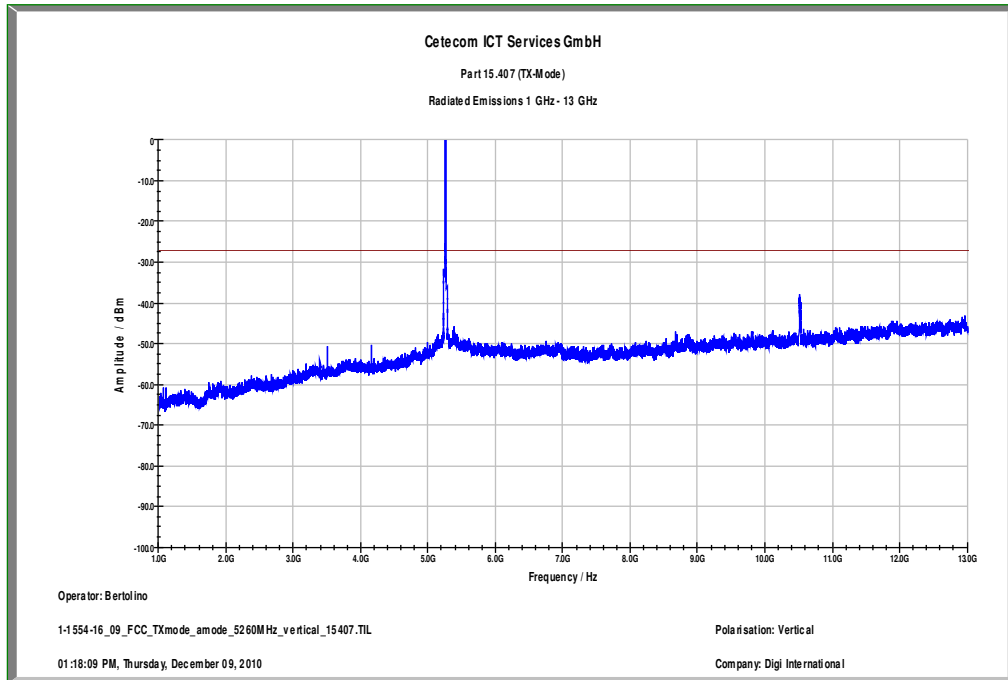
Date: 14.DEC.2010 10:50:29

Plot 6: lowest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

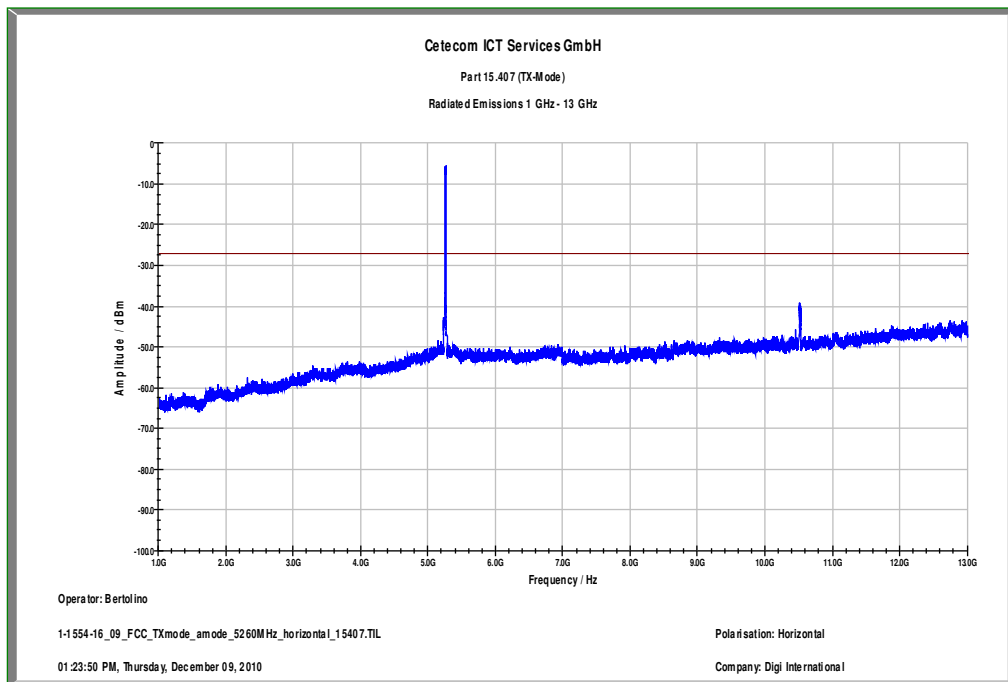


Date: 14.DEC.2010 11:06:17

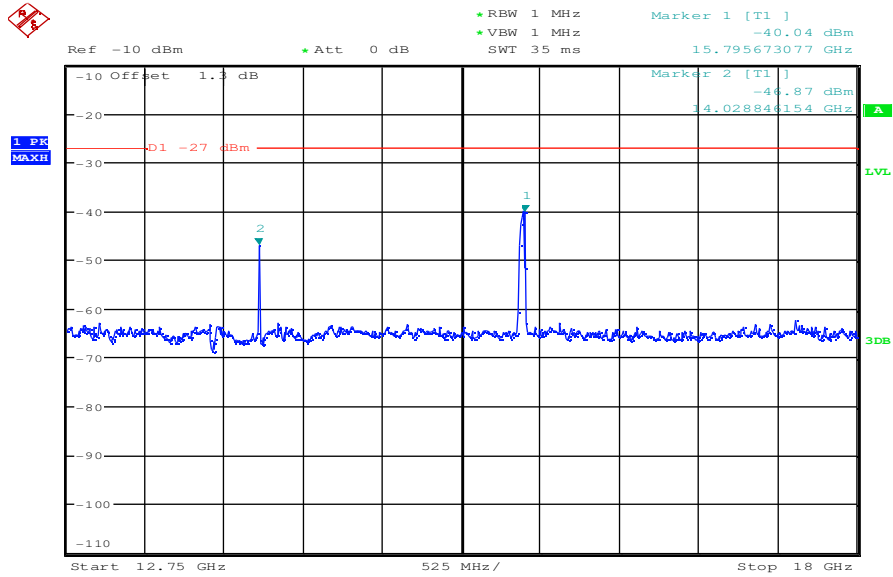
Plot 7: lowest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 8: lowest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

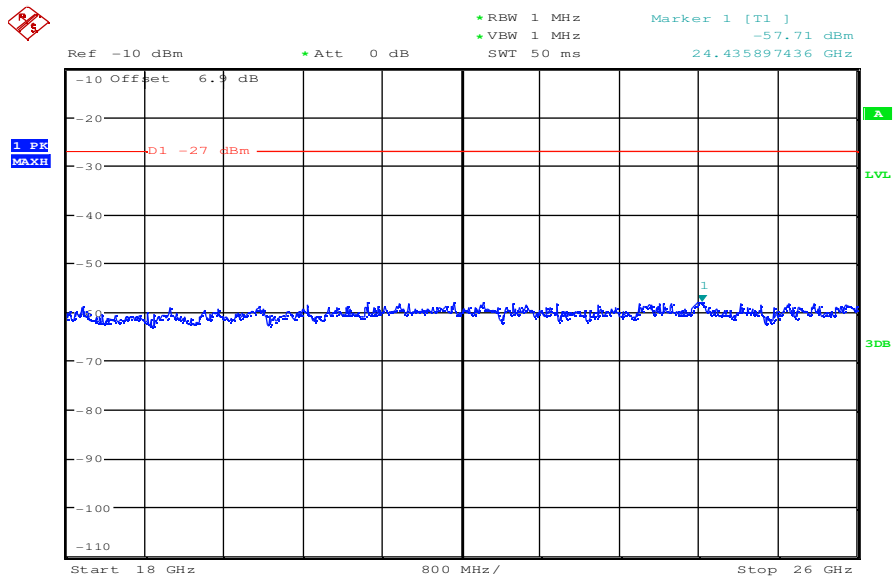


Plot 9: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



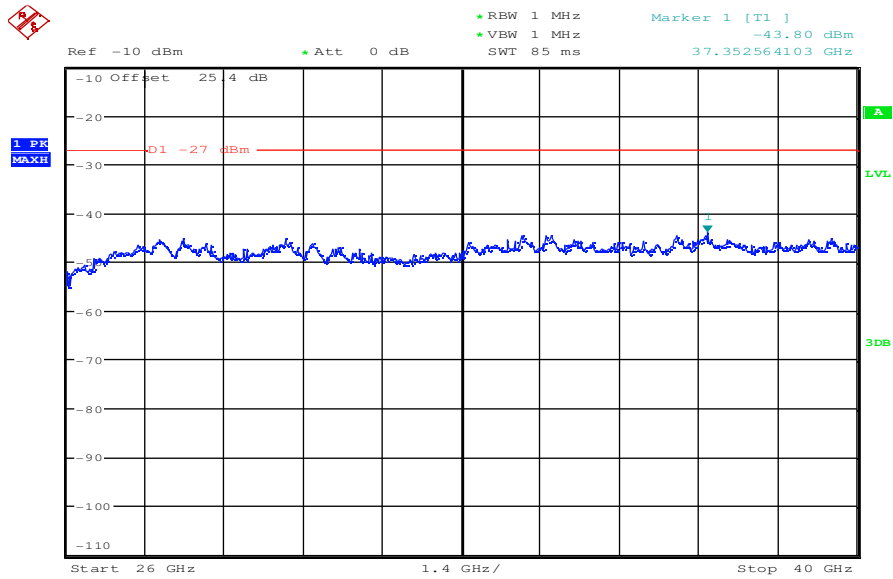
Date: 14.DEC.2010 07:24:23

Plot 10: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 07:54:22

Plot 11: lowest channel; power index 21, 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:13:05

Plot 12: middle channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

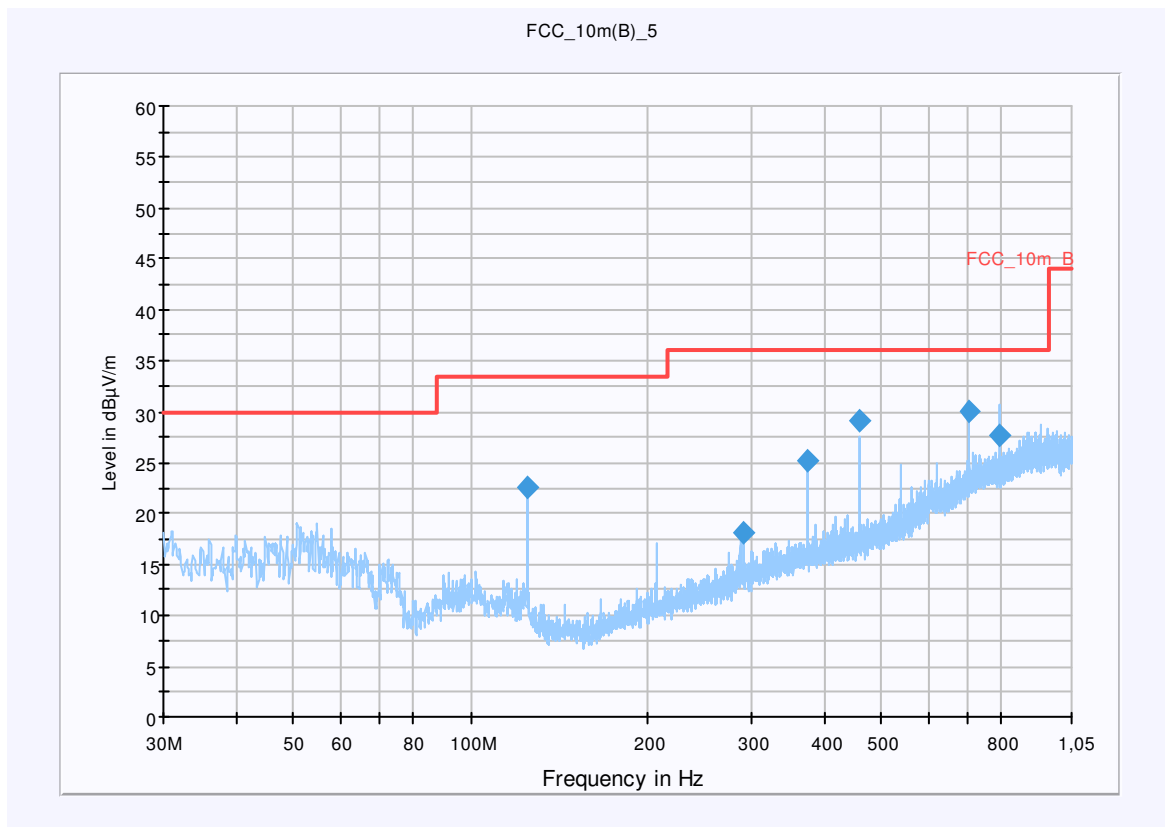
Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5280 MHz, CH 56, 54 Mbit/s, a mode, power index 21
 Operator Name: Merten
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dBµV/m

Subrange **Detectors** **IF Bandwidth** **Meas. Time** **Receiver**
 30 MHz - 1,05 GHz QuasiPeak 120 kHz 15 s Receiver



Final Result 1

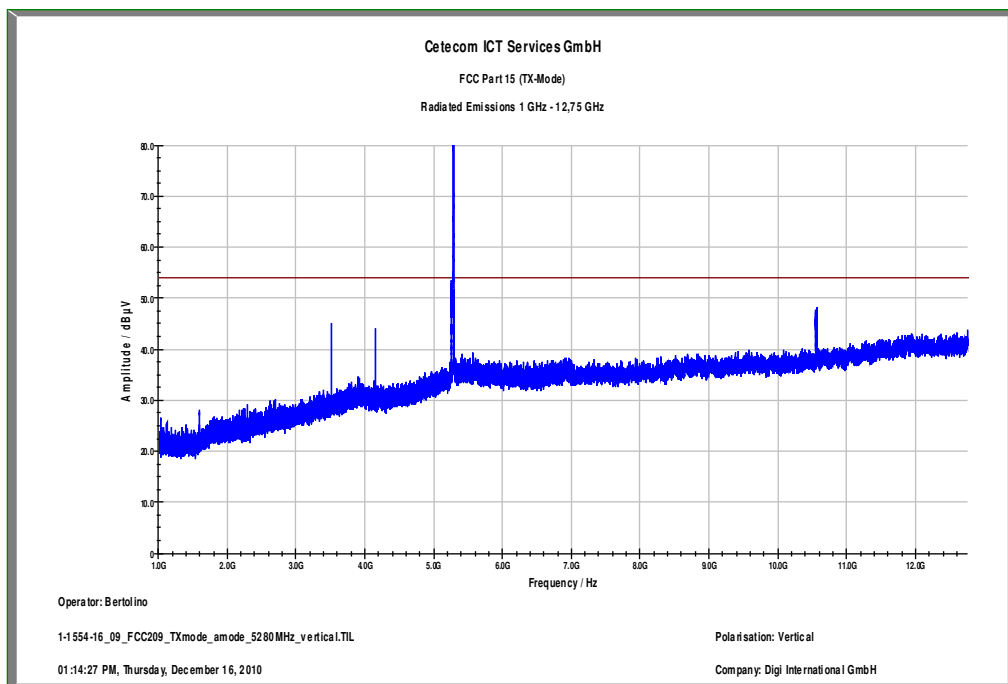
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) | Comment |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------|---------|
| 124.680000 | 22.6 | 15000.000 | 120.000 | 110.0 | V | 244.0 | 9.8 | 10.9 | 33.5 | |
| 290.880000 | 18.2 | 15000.000 | 120.000 | 270.0 | H | 298.0 | 14.3 | 17.8 | 36.0 | |
| 374.040000 | 25.1 | 15000.000 | 120.000 | 244.0 | H | 31.0 | 16.5 | 10.9 | 36.0 | |
| 457.200000 | 29.0 | 15000.000 | 120.000 | 174.0 | H | 163.0 | 17.8 | 7.0 | 36.0 | |
| 706.560000 | 30.2 | 15000.000 | 120.000 | 106.0 | H | 163.0 | 22.7 | 5.8 | 36.0 | |
| 789.720000 | 27.8 | 15000.000 | 120.000 | 109.0 | H | 66.0 | 23.8 | 8.2 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

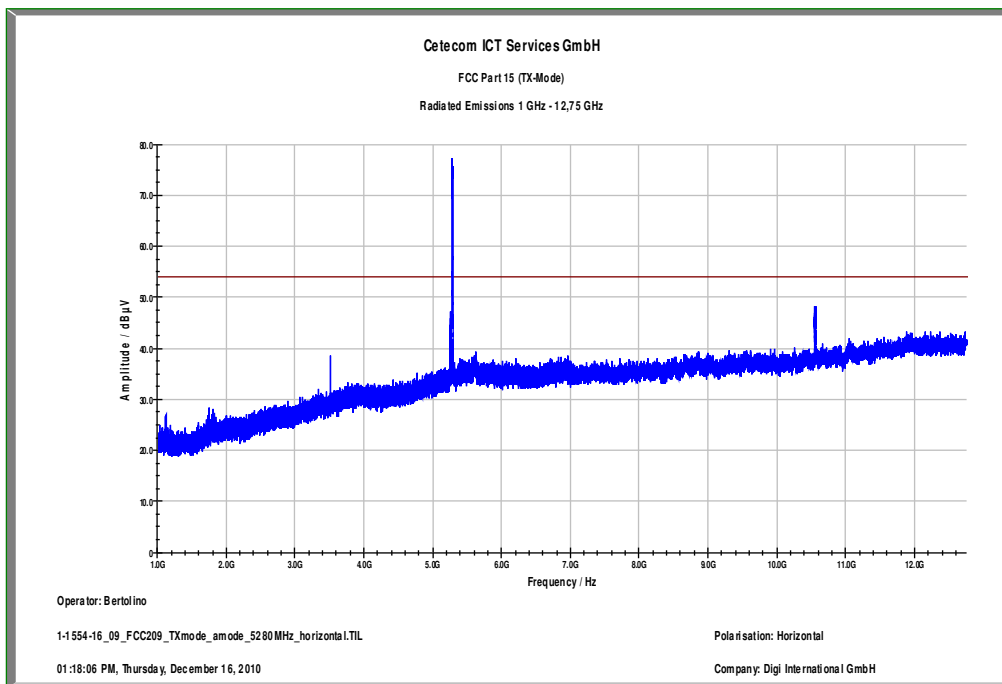
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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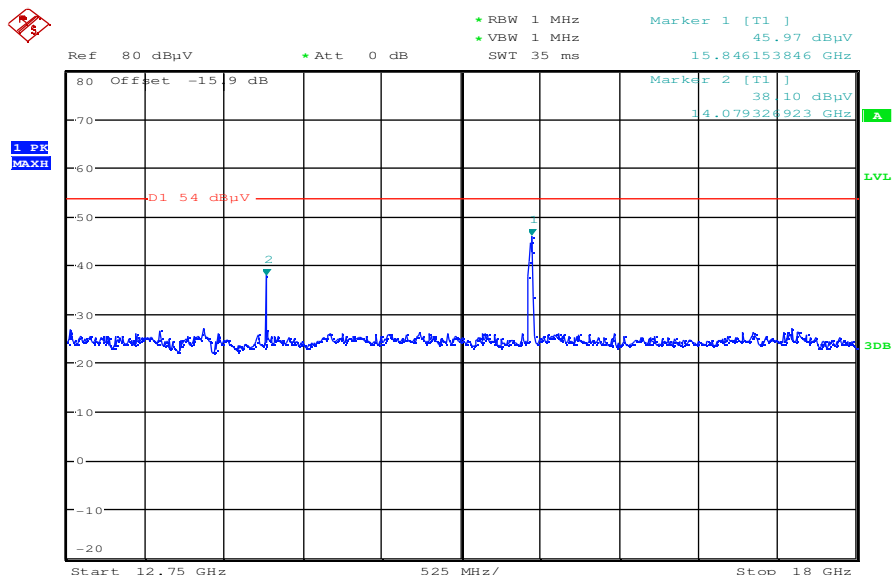
Plot 13: middle channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 14: middle channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

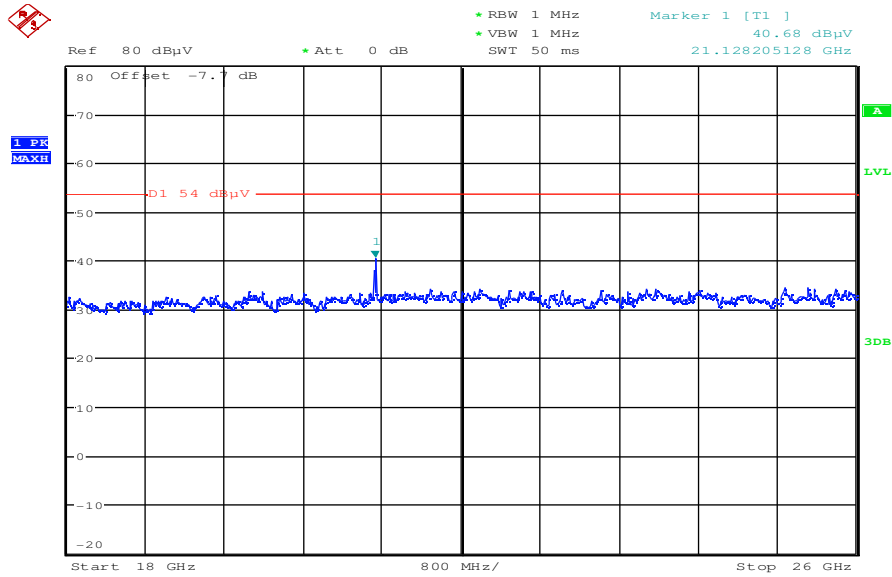


Plot 15: middle channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



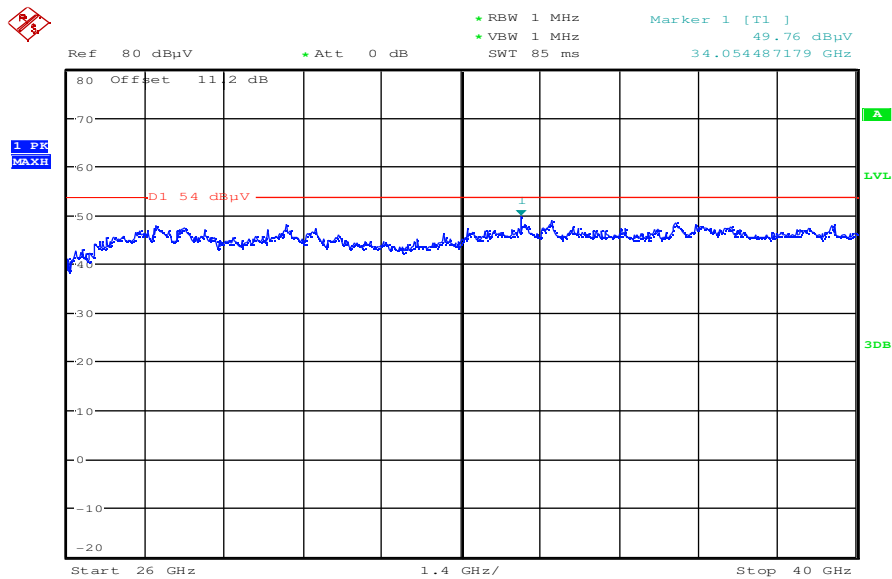
Date: 14.DEC.2010 10:13:52

Plot 16: middle channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



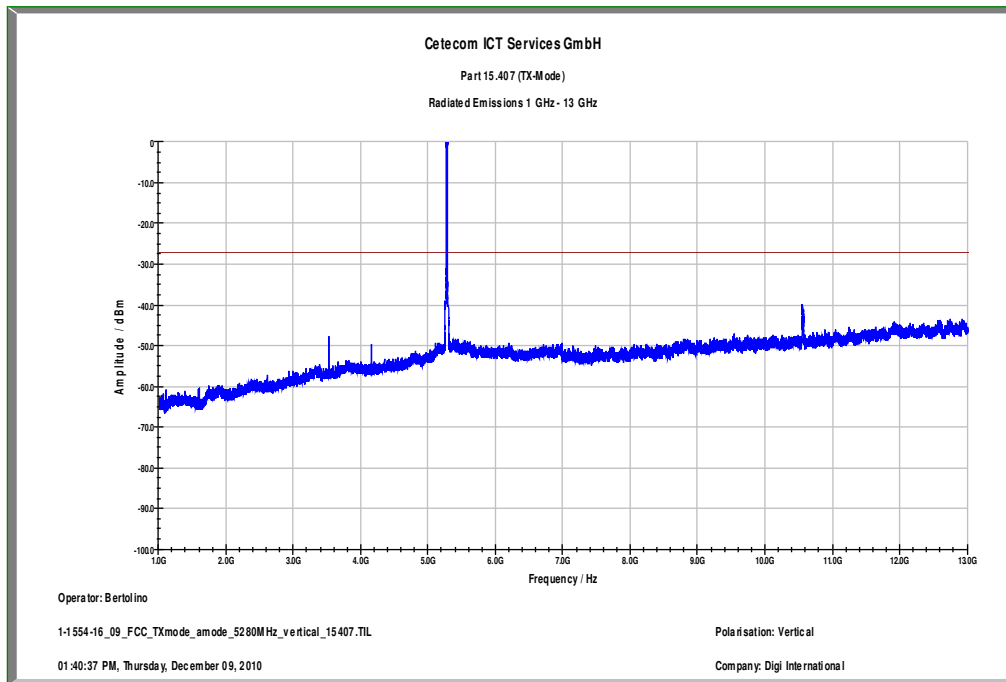
Date: 14.DEC.2010 10:51:15

Plot 17: middle channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

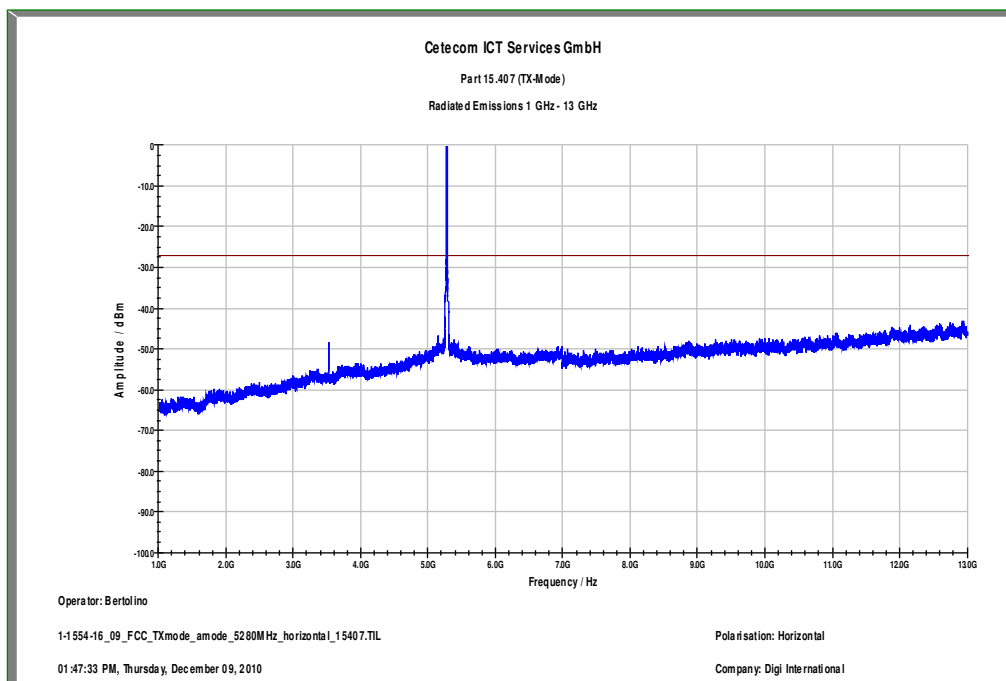


Date: 14.DEC.2010 11:07:30

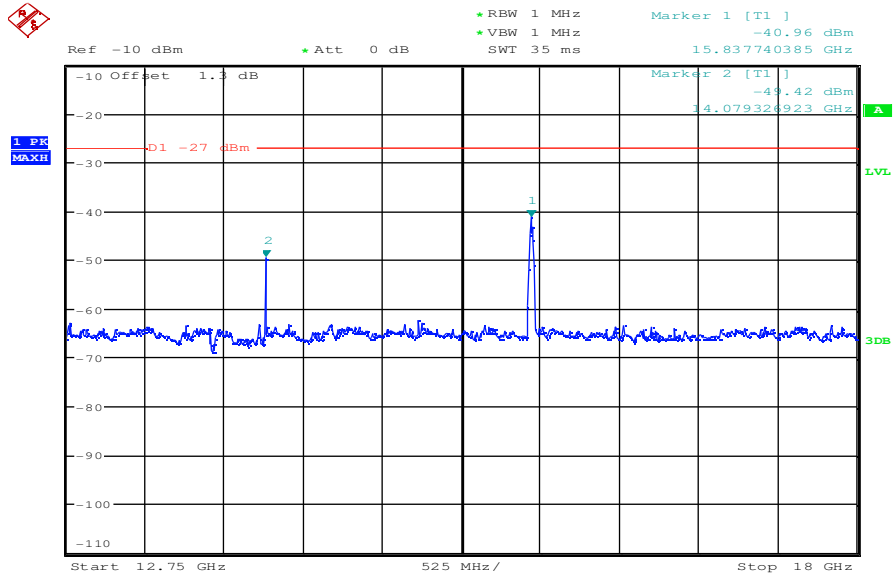
Plot 18: middle channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 19: middle channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

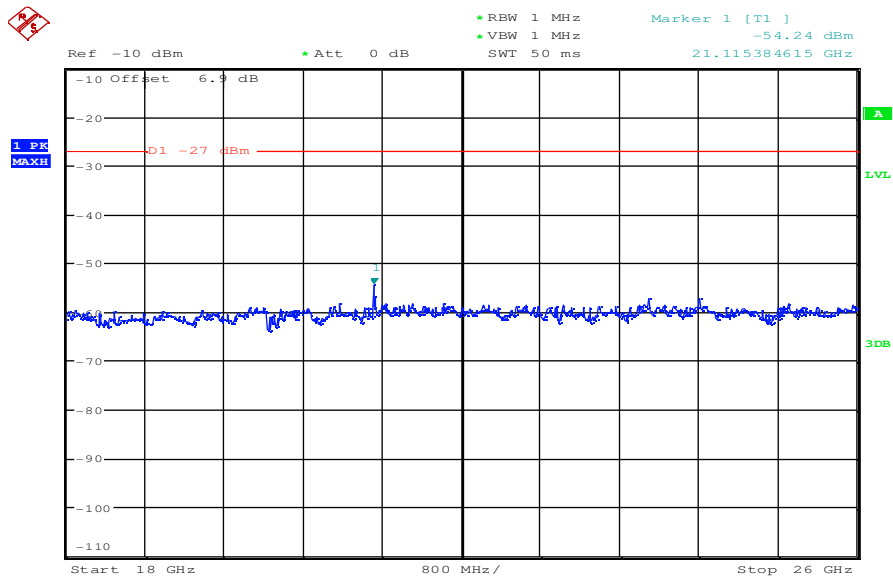


Plot 20: middle channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



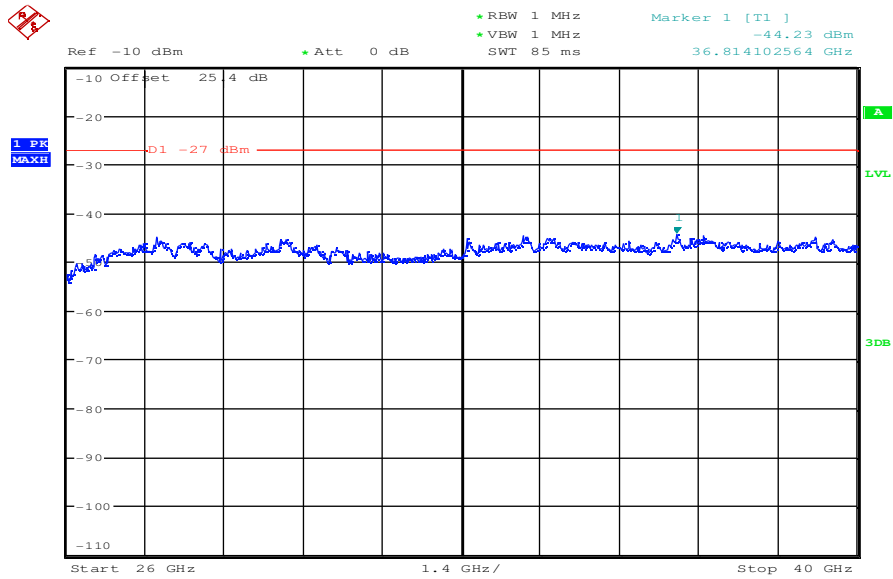
Date: 14.DEC.2010 07:25:28

Plot 21: middle channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 07:55:02

Plot 22: middle channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:13:58

Plot 23: highest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

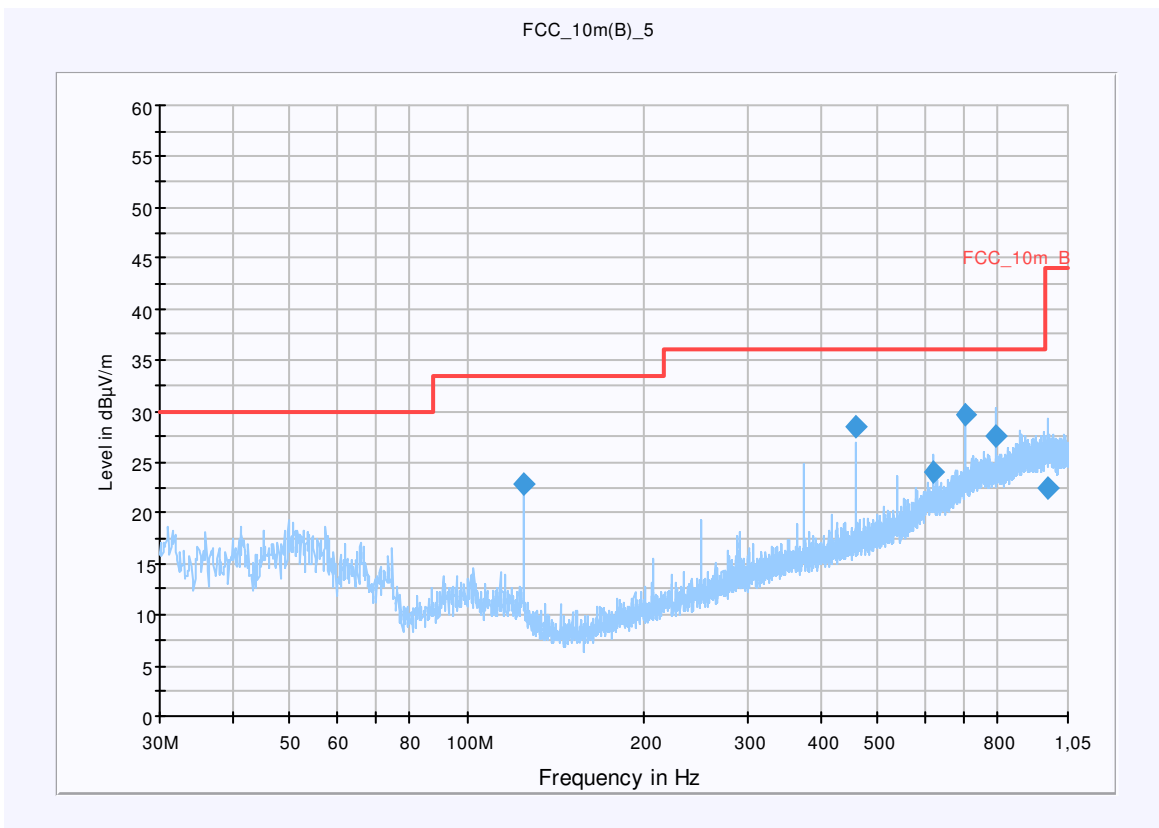
Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5320 MHz, CH 64, 54 Mbit/s, a mode, power index 21
 Operator Name: Merten
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dB μ V/m

| Subrange | Detectors | IF Bandwidth | Meas. Time | Receiver |
|-------------------|-----------|--------------|------------|----------|
| 30 MHz - 1,05 GHz | QuasiPeak | 120 kHz | 15 s | Receiver |



Final Result 1

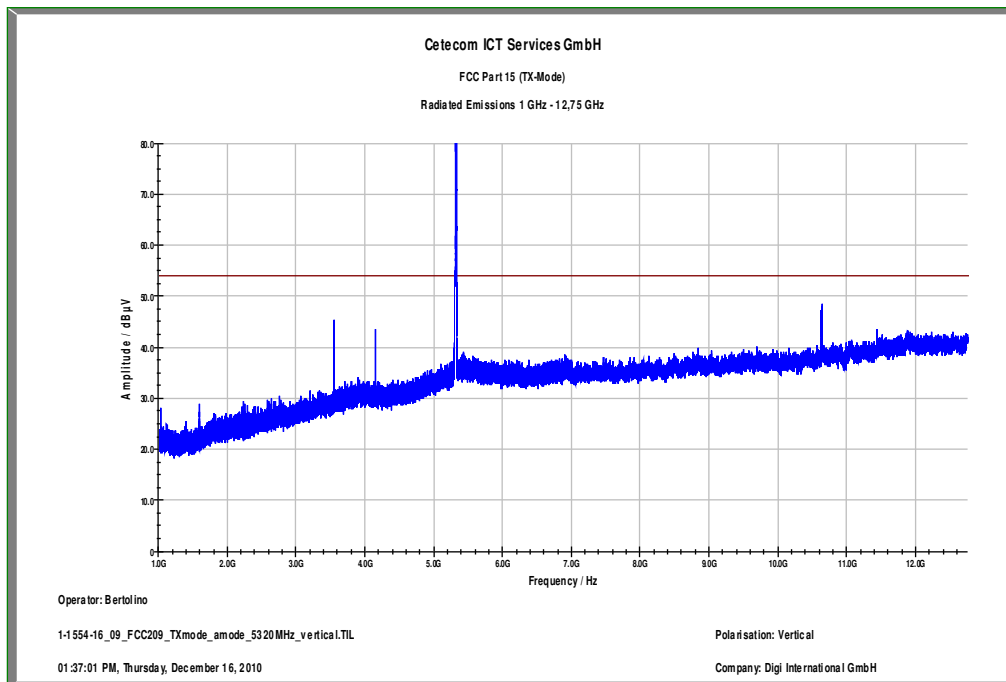
| Frequency (MHz) | QuasiPeak (dB μ V/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dB μ V/m) | Comment |
|-----------------|--------------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------------|---------|
| 124.680000 | 22.8 | 15000.000 | 120.000 | 98.0 | V | 238.0 | 9.8 | 10.7 | 33.5 | |
| 457.200000 | 28.5 | 15000.000 | 120.000 | 207.0 | H | 150.0 | 17.8 | 7.5 | 36.0 | |
| 623.400000 | 24.0 | 15000.000 | 120.000 | 98.0 | H | 24.0 | 20.9 | 12.0 | 36.0 | |
| 706.560000 | 29.6 | 15000.000 | 120.000 | 112.0 | H | 150.0 | 22.7 | 6.4 | 36.0 | |
| 789.720000 | 27.5 | 15000.000 | 120.000 | 105.0 | H | -2.0 | 23.8 | 8.5 | 36.0 | |
| 968.280000 | 22.5 | 15000.000 | 120.000 | 270.0 | V | 339.0 | 25.5 | 21.5 | 44.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

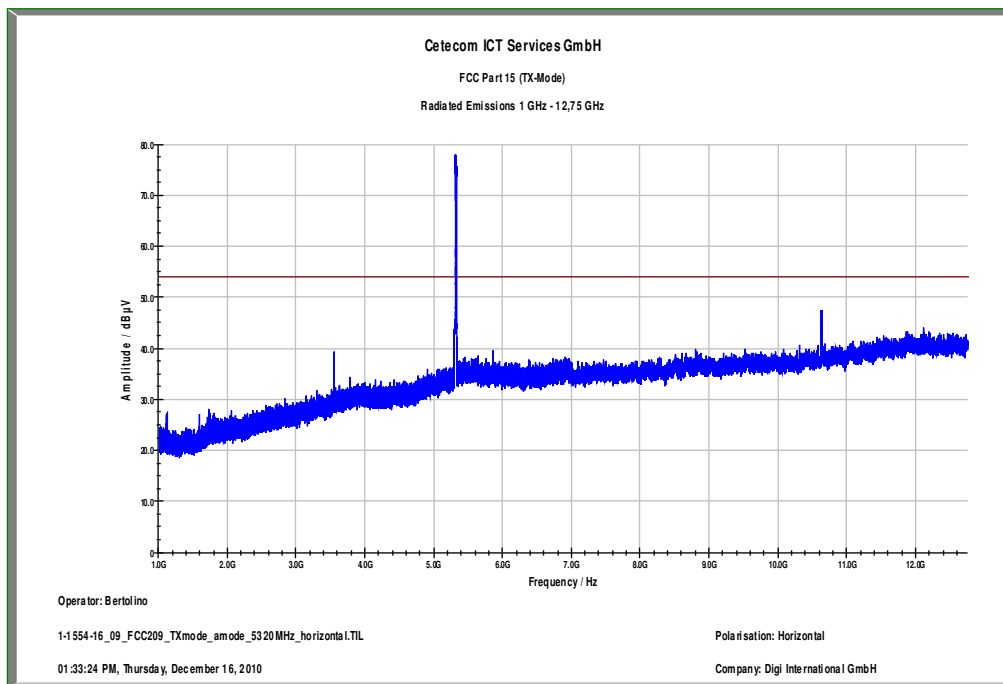
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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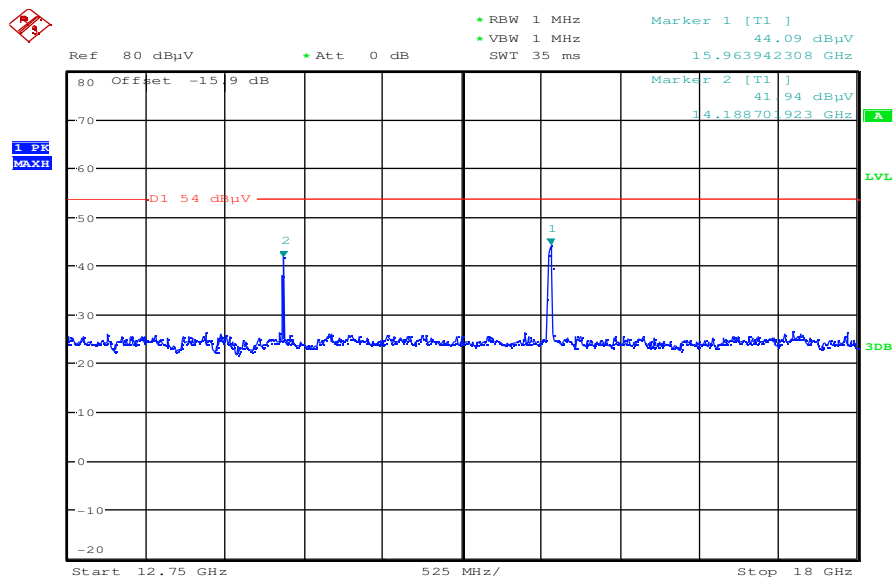
Plot 24: highest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 25: highest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

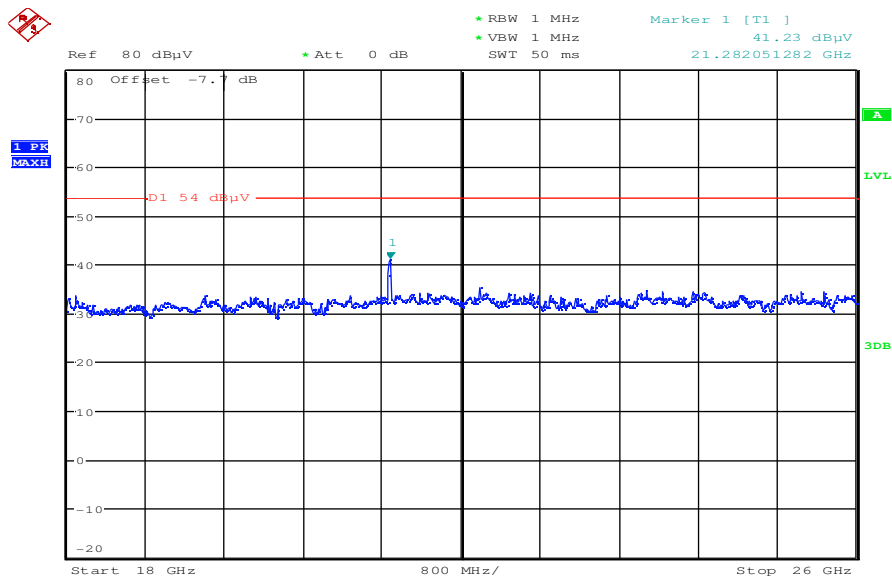


Plot 26: highest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



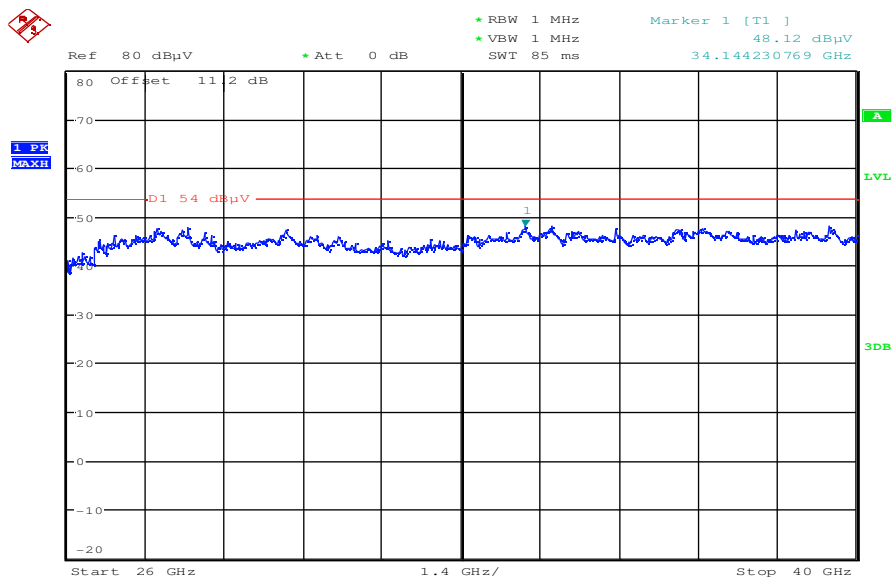
Date: 14.DEC.2010 10:15:21

Plot 27: highest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



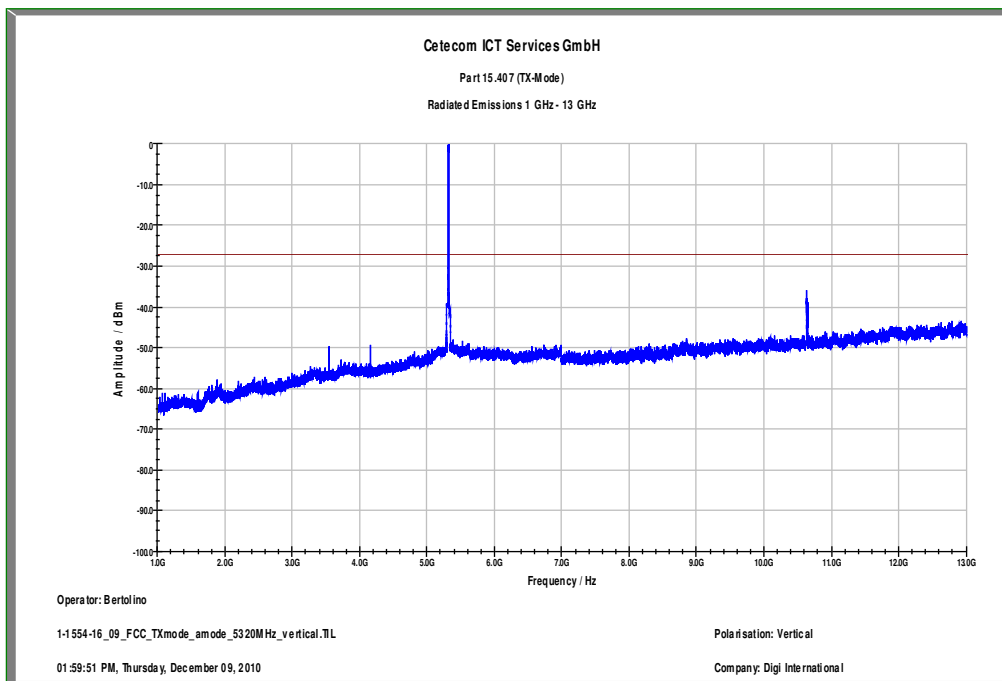
Date: 14.DEC.2010 10:52:01

Plot 28: highest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209

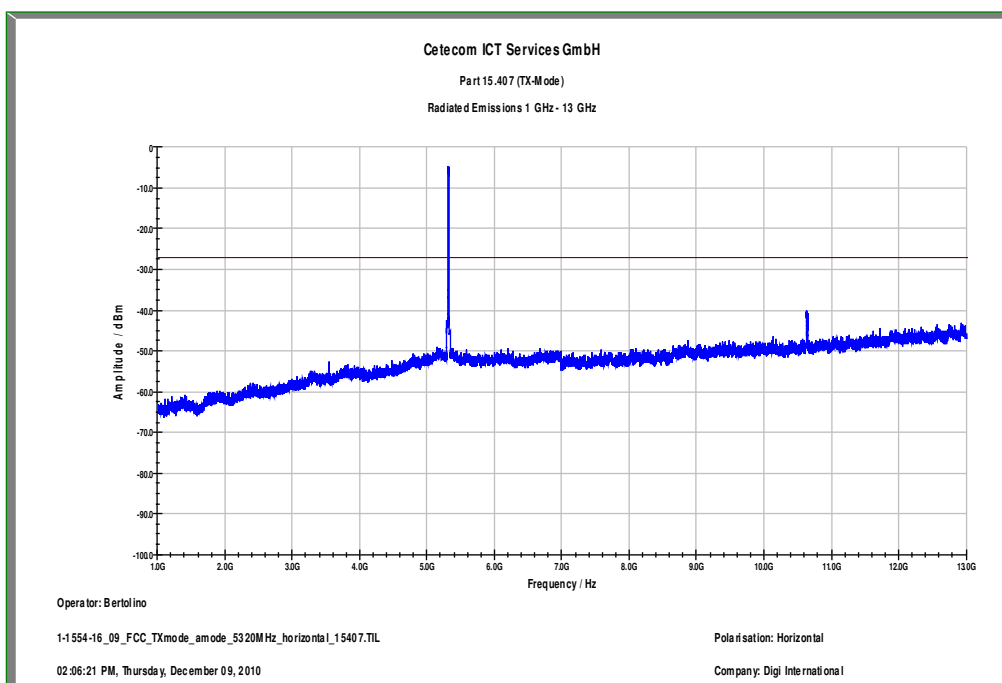


Date: 14.DEC.2010 11:08:11

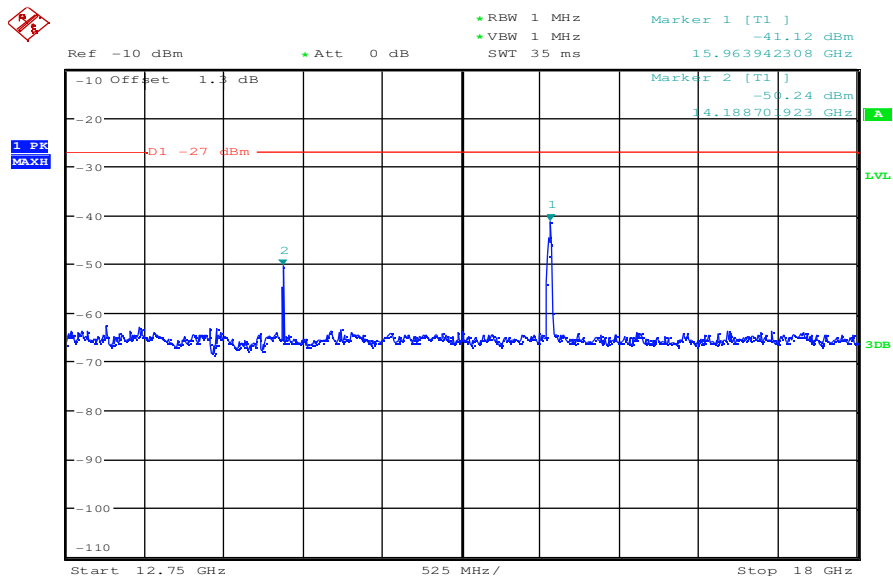
Plot 29: highest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 30: highest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

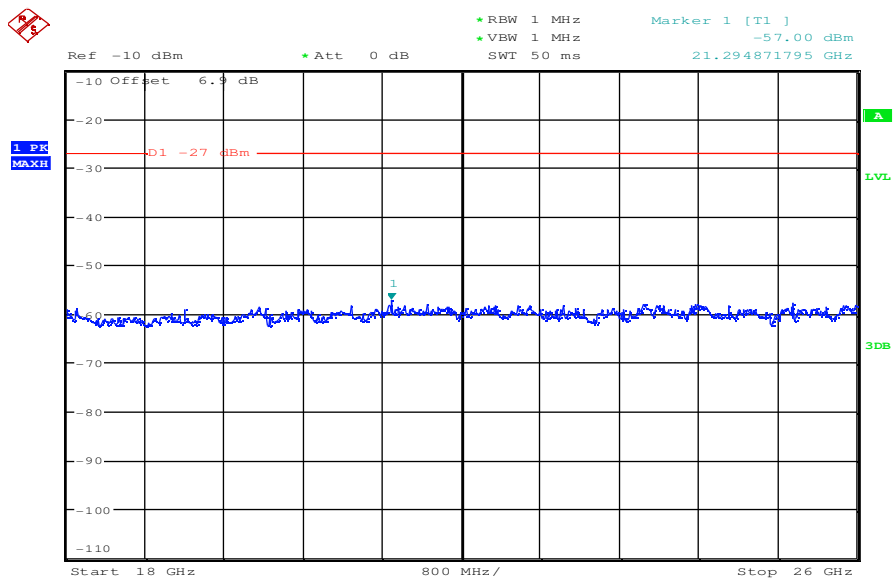


Plot 31: highest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.407



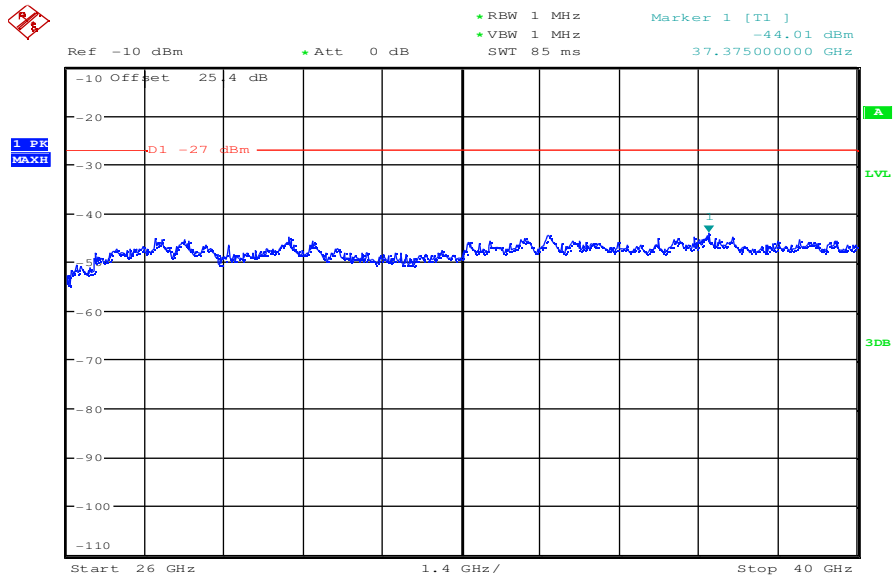
Date: 14.DEC.2010 07:27:03

Plot 32: highest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 07:56:18

Plot 33: highest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.407



Date: 14.DEC.2010 08:17:10

OFDM – mode / n – mode (mcs7):

Plot 1: lowest channel; power index 21; 30 MHz to 1 GHz – vertical & horizontal polarization, Part 15.209

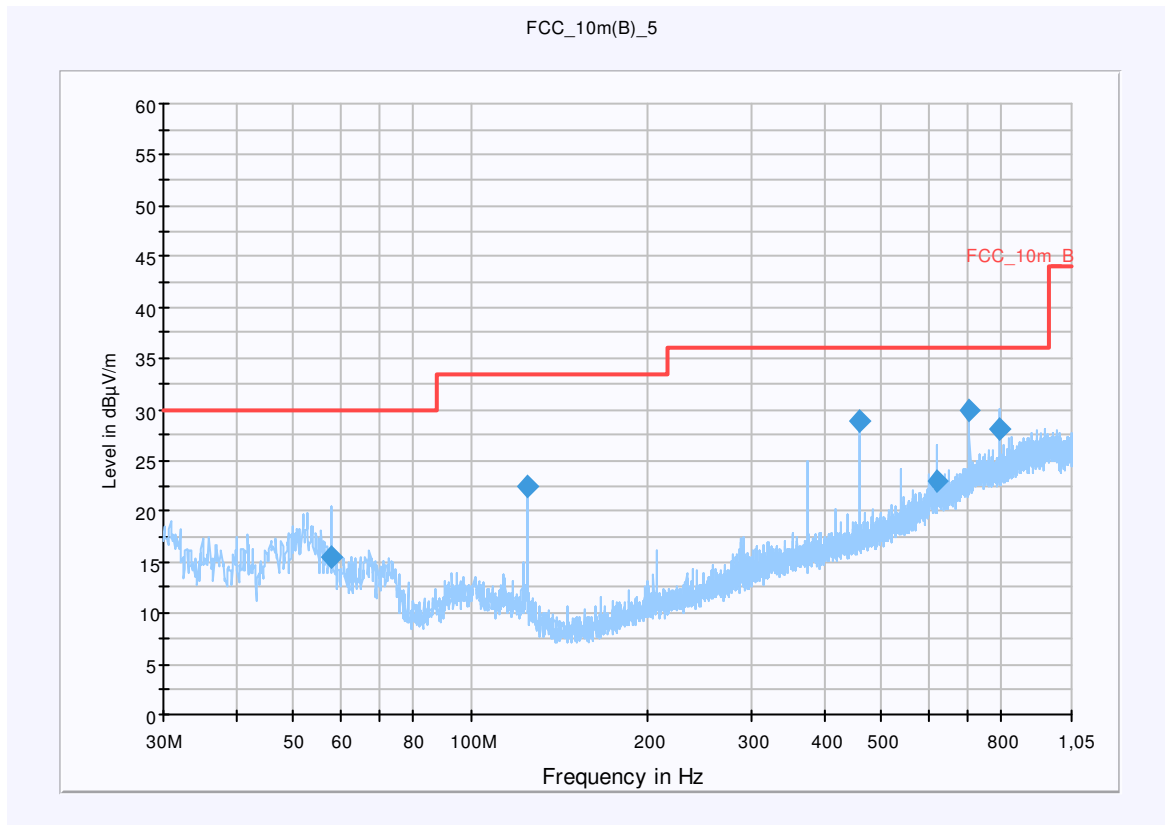
Common Information

EUT: i.MX51
 Serial Number: Proto
 Test Description: FCC part 15
 Operating Conditions: Tx, 5260 MHz, CH 52, mcs 7, n mode, power index 21
 Operator Name: Merten
 Comment: DC powered via development board

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
 Level Unit: dBµV/m

| Subrange | Detectors | IF Bandwidth | Meas. Time | Receiver |
|-------------------|-----------|--------------|------------|----------|
| 30 MHz - 1,05 GHz | QuasiPeak | 120 kHz | 15 s | Receiver |



Final Result 1

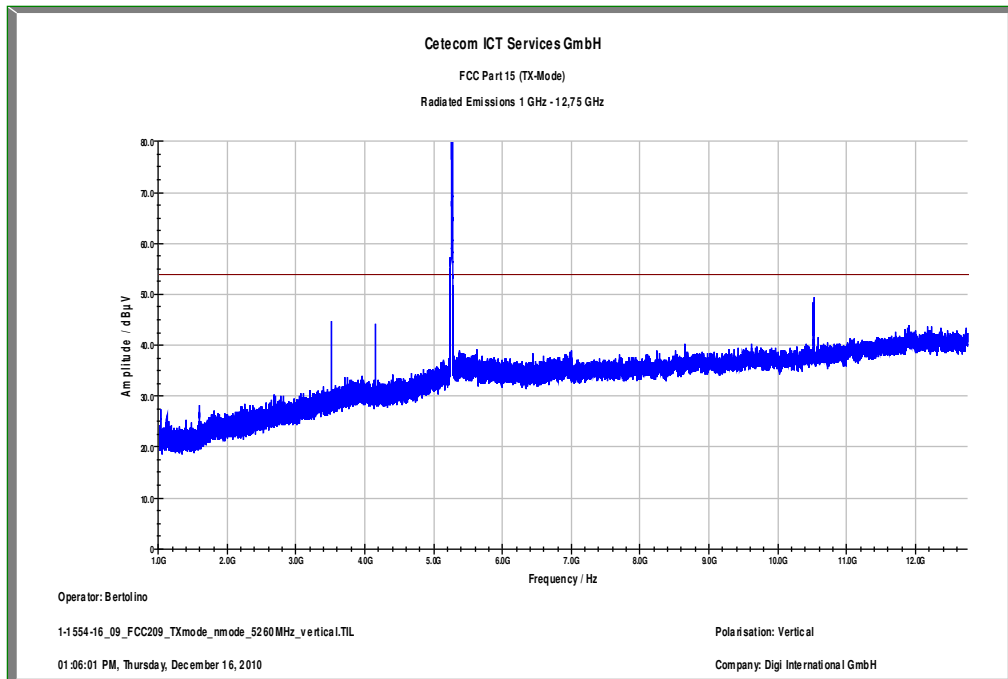
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Antenna height (cm) | Polarity | Turntable position (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) | Comment |
|-----------------|--------------------|-----------------|-----------------|---------------------|----------|--------------------------|------------|-------------|----------------|---------|
| 57.960000 | 15.5 | 15000.000 | 120.000 | 150.0 | V | 228.0 | 12.1 | 14.5 | 30.0 | |
| 124.680000 | 22.5 | 15000.000 | 120.000 | 120.0 | V | 205.0 | 9.8 | 11.0 | 33.5 | |
| 457.200000 | 28.8 | 15000.000 | 120.000 | 213.0 | H | 162.0 | 17.8 | 7.2 | 36.0 | |
| 623.400000 | 23.1 | 15000.000 | 120.000 | 167.0 | H | 162.0 | 20.9 | 13.0 | 36.0 | |
| 706.560000 | 29.9 | 15000.000 | 120.000 | 98.0 | H | 162.0 | 22.7 | 6.1 | 36.0 | |
| 789.600000 | 28.0 | 15000.000 | 120.000 | 98.0 | H | -2.0 | 23.8 | 8.0 | 36.0 | |

Hardware Setup: EMI radiated\Electric Field (NOS) - [EMI radiated]

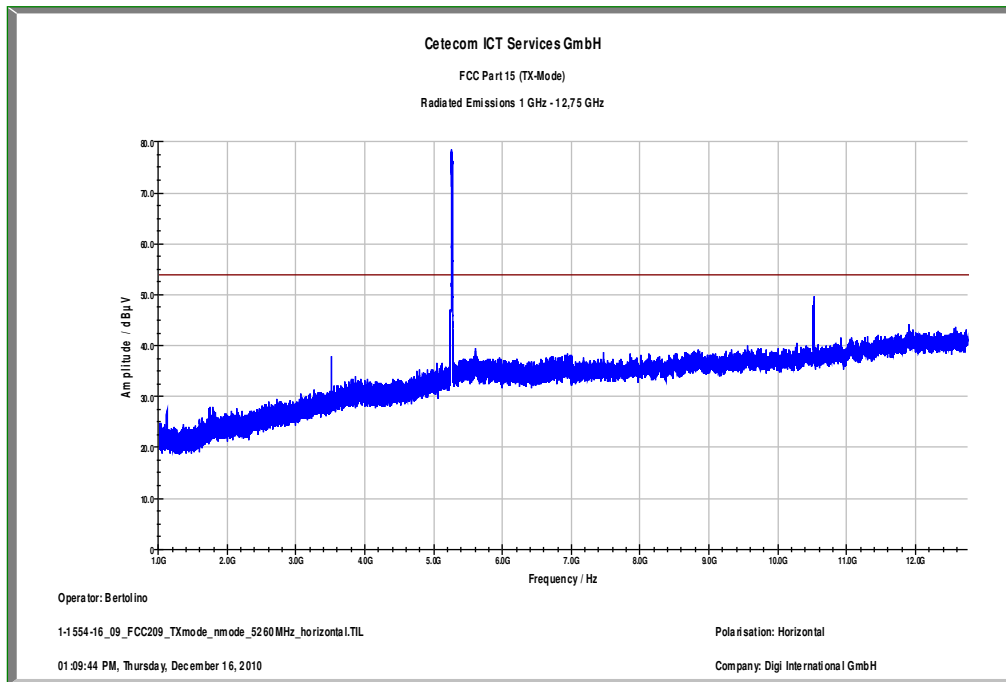
| Subrange 1 | |
|------------------|--|
| Frequency Range: | 30 MHz - 2 GHz |
| Receiver: | Receiver [ESCI 3] @ GPIB0 (ADR 20), SN 100083/003, FW 4.32 |
| Signal Path: | without Notch FW 1.0 |
| Antenna: | VULB 9163 SN 9163-295, FW --- Correction Table (vertical): VULP6113 Correction Table (horizontal): VULP6113 Correction Table: Cable_EN_1GHz (0909) |
| Antenna Tower: | Tower [EMCO 2090 Antenna Tower] @ GPIB0 (ADR 8), FW REV 3.12 |
| Turntable: | Turntable [EMCO Turntable] @ GPIB0 (ADR 9), FW REV 3.12 |

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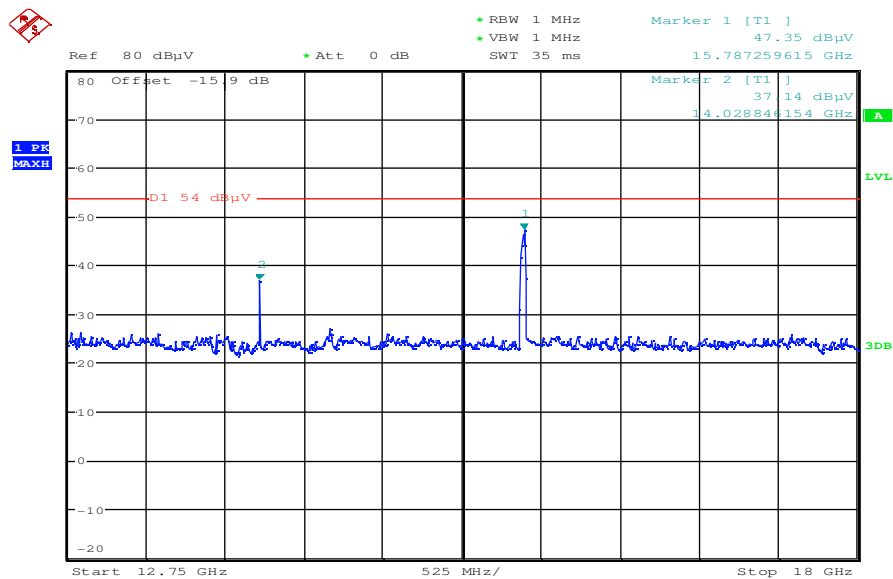
Plot 2: lowest channel; power index 21; 1 GHz to 12.75 GHz – vertical polarization, Part 15.209



Plot 3: lowest channel; power index 21; 1 GHz to 12.75 GHz – horizontal polarization, Part 15.209

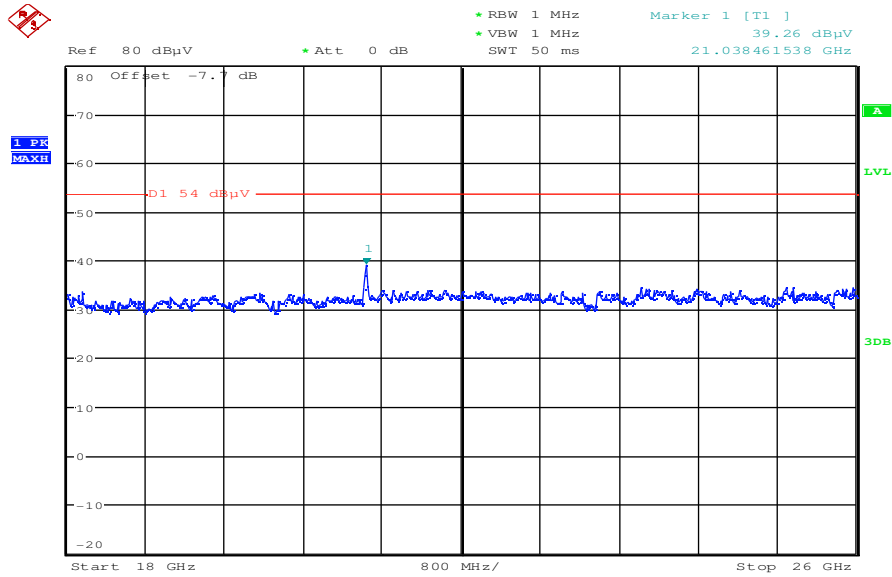


Plot 4: lowest channel; power index 21; 12.75 GHz to 18 GHz – vertical & horizontal polarization, Part 15.209



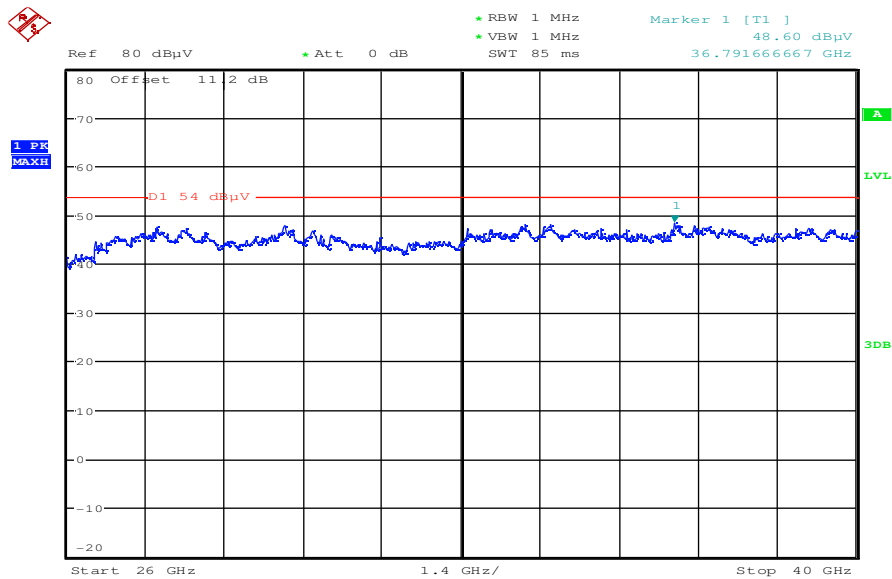
Date: 14.DEC.2010 10:24:13

Plot 5: lowest channel; power index 21; 18 GHz to 26 GHz – vertical & horizontal polarization, Part 15.209



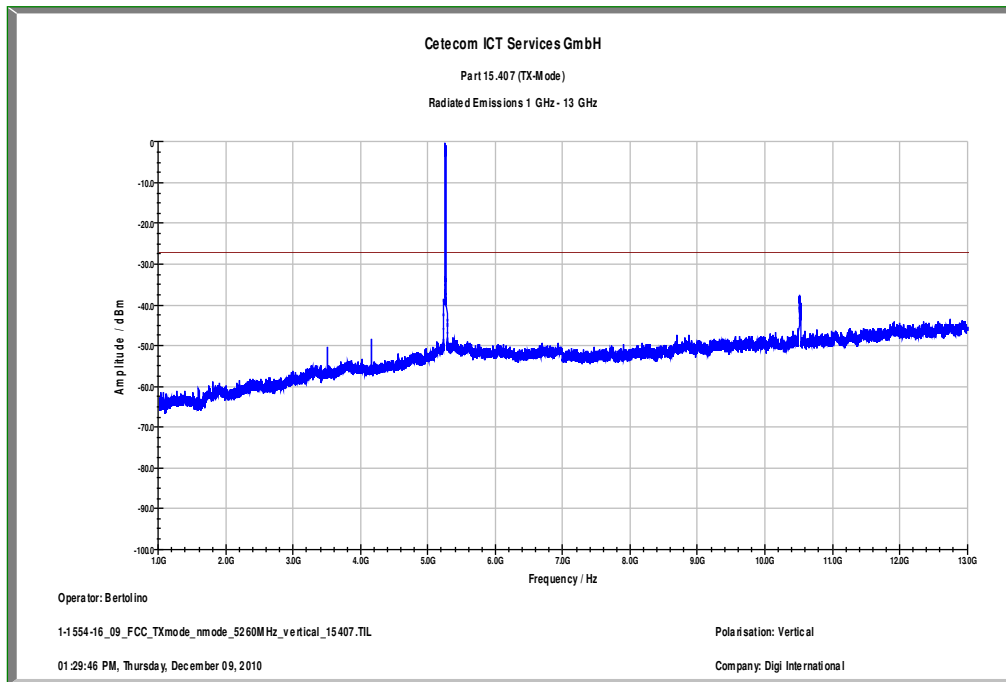
Date: 14.DEC.2010 10:57:29

Plot 6: lowest channel; power index 21; 26 GHz to 40 GHz – vertical & horizontal polarization, Part 15.209



Date: 14.DEC.2010 11:14:15

Plot 7: lowest channel; power index 21; 1 GHz to 13 GHz – vertical polarization, Part 15.407



Plot 8: lowest channel; power index 21; 1 GHz to 13 GHz – horizontal polarization, Part 15.407

