



CMC
Centro Misure Compatibilità S.r.l.
Via della Fisica, 20
36016 Thiene (VI)



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178819

Meas Type Emission

Equipment under Test

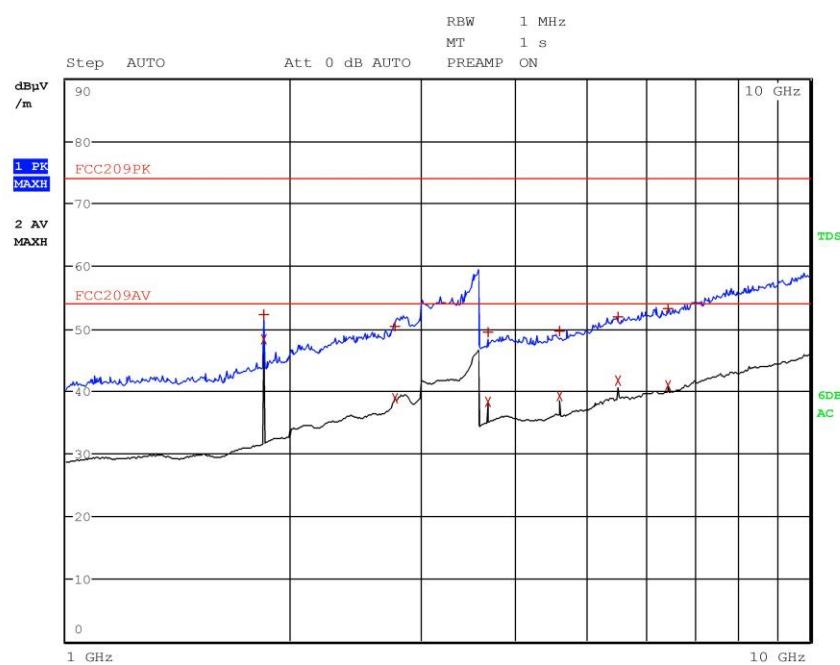
Manufacturer

OP Condition Tx - Fmid

Operator Gandini 16178819

Test Spec

Horiz





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Meas Type Emission

Equipment under Test

Manufacturer

OP Condition Tx - Fmid

Operator Gandini 16178819

Test Spec

Horiz

Final Measurement

Meas Time: 1 s

Margin: 6 dB

Subranges: 12

| Trace | Frequency | Level (dB μ V/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------------|----------|----------------|
| 1 | 1.842800000 GHz | 52.35 | Max Peak | -21.63 |
| 2 | 1.842800000 GHz | 48.34 | Average | -5.64 |
| 2 | 2.764400000 GHz | 38.81 | Average | -15.17 |
| 1 | 2.773200000 GHz | 50.48 | Max Peak | -23.50 |
| 1 | 3.686000000 GHz | 49.41 | Max Peak | -24.57 |
| 2 | 3.686000000 GHz | 38.23 | Average | -15.75 |
| 1 | 4.600000000 GHz | 49.59 | Max Peak | -24.39 |
| 2 | 4.607600000 GHz | 39.22 | Average | -14.76 |
| 1 | 5.522400000 GHz | 51.99 | Max Peak | -21.99 |
| 2 | 5.528800000 GHz | 41.65 | Average | -12.33 |
| 1 | 6.447600000 GHz | 53.17 | Max Peak | -20.81 |
| 2 | 6.450400000 GHz | 40.91 | Average | -13.07 |



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LAB N° 0168

G16178820

Meas Type Emission

Equipment under Test

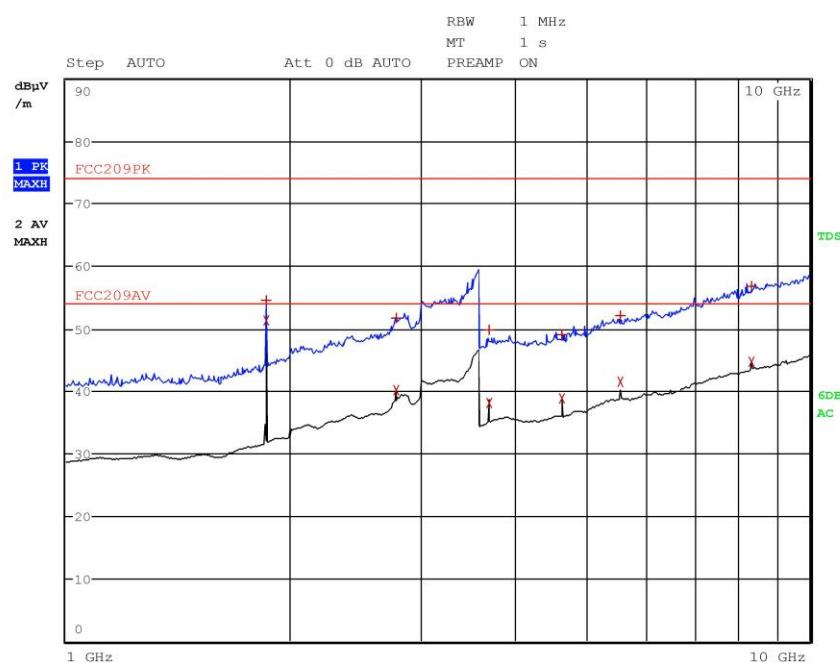
Manufacturer

OP Condition Tx - Fmax

Operator Gandini 16178820

Test Spec

Horiz



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

Manufacturer

OP Condition Tx - Fmax

Operator Gandini 16178820

Test Spec

Horiz

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 12

| Trace | Frequency | Level (dB μ V/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------------|----------|----------------|
| 2 | 1.855600000 GHz | 51.27 | Average | -2.71 |
| 1 | 1.855600000 GHz | 54.63 | Max Peak | -19.35 |
| 1 | 2.776800000 GHz | 51.76 | Max Peak | -22.22 |
| 2 | 2.783600000 GHz | 40.12 | Average | -13.86 |
| 1 | 3.711600000 GHz | 49.83 | Max Peak | -24.15 |
| 2 | 3.711600000 GHz | 38.08 | Average | -15.90 |
| 1 | 4.635600000 GHz | 49.02 | Max Peak | -24.96 |
| 2 | 4.639200000 GHz | 38.92 | Average | -15.06 |
| 1 | 5.552400000 GHz | 52.04 | Max Peak | -21.94 |
| 2 | 5.567200000 GHz | 41.52 | Average | -12.46 |
| 1 | 8.347200000 GHz | 56.74 | Max Peak | -17.24 |
| 2 | 8.350800000 GHz | 44.70 | Average | -9.28 |



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G16178821

Meas Type Emission

Equipment under Test

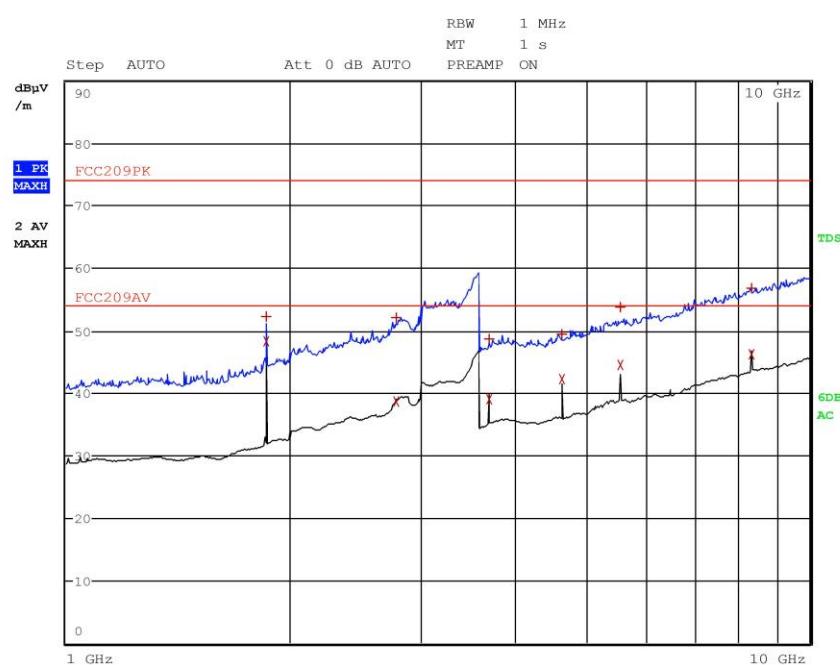
Manufacturer

OP Condition Tx - Fmax

Operator Gandini 16178821

Test Spec

Vert



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

Meas Type Emission

Equipment under Test

Manufacturer

OP Condition Tx - Fmax

Operator Gandini 16178821

Test Spec

Vert

Final Measurement

Meas Time: 1 s

Margin: 20 dB

Subranges: 12

| Trace | Frequency | Level (dB μ V/m) | Detector | Delta Limit/dB |
|-------|-----------------|----------------------|----------|----------------|
| 2 | 1.855600000 GHz | 48.32 | Average | -5.66 |
| 1 | 1.855600000 GHz | 52.31 | Max Peak | -21.67 |
| 1 | 2.782800000 GHz | 52.15 | Max Peak | -21.83 |
| 2 | 2.783600000 GHz | 38.74 | Average | -15.24 |
| 1 | 3.702800000 GHz | 48.66 | Max Peak | -25.32 |
| 2 | 3.711600000 GHz | 39.13 | Average | -14.85 |
| 2 | 4.639200000 GHz | 42.23 | Average | -11.75 |
| 1 | 4.641600000 GHz | 49.47 | Max Peak | -24.51 |
| 1 | 5.567200000 GHz | 53.87 | Max Peak | -20.11 |
| 2 | 5.567200000 GHz | 44.47 | Average | -9.51 |
| 2 | 8.350800000 GHz | 46.20 | Average | -7.78 |
| 1 | 8.356400000 GHz | 56.76 | Max Peak | -17.22 |

Result: The requirements are met



11.3 20 dB bandwidth

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

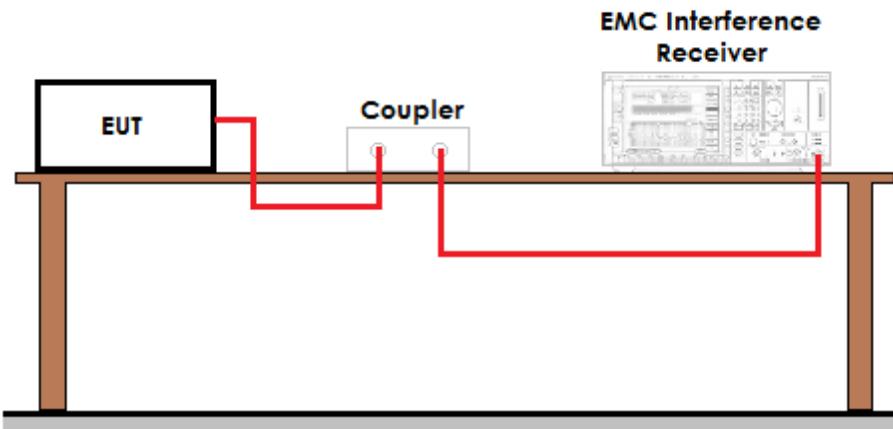
Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 22 | 100 | 45 |

Acceptance limits: The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz



Setup



Result

| Frequency (MHz) | Graphs | 20 dB bandwidth (kHz) | Maximum 20 dB bandwidth allowed (kHz) | Results |
|-----------------|-----------|-----------------------|---------------------------------------|----------|
| 915,150 | G16178837 | 24,437 | 500 | Complies |
| 921,500 | G16178851 | 22,956 | 500 | Complies |
| 927,850 | G16178854 | 24,037 | 500 | Complies |



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Graphs

G16178837

Meas Type Emission

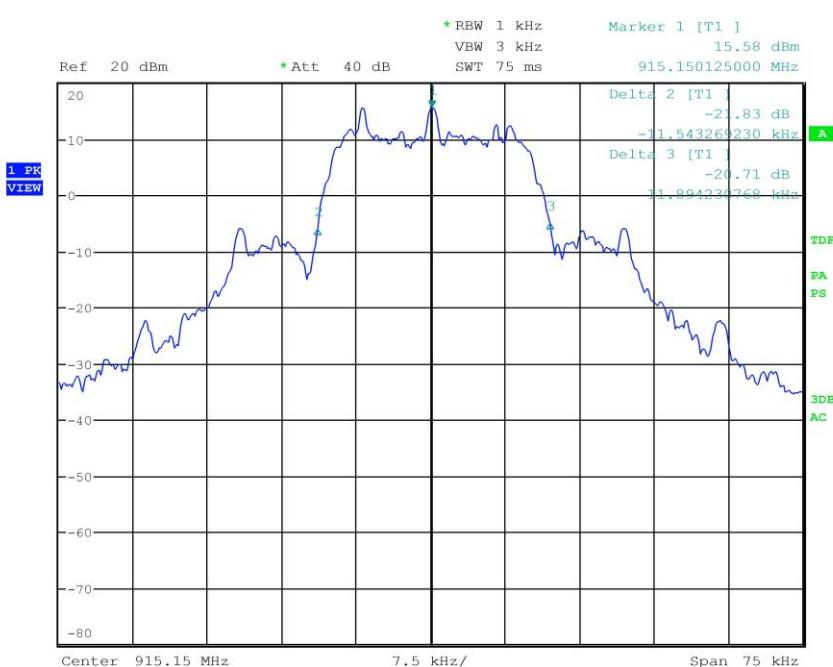
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178837

Test Spec





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LAB N° 0168

G16178851

Meas Type Emission

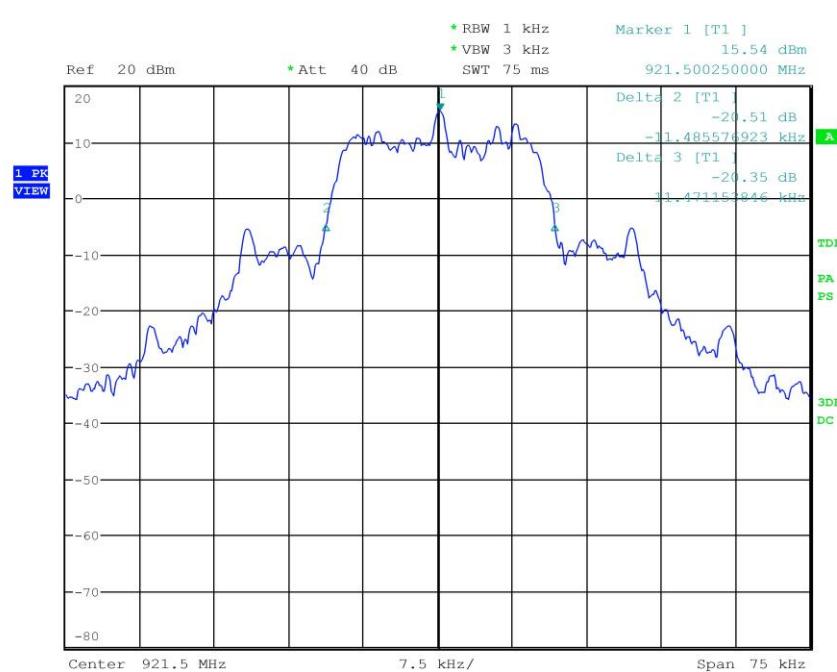
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178851

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178854

Meas Type Emission

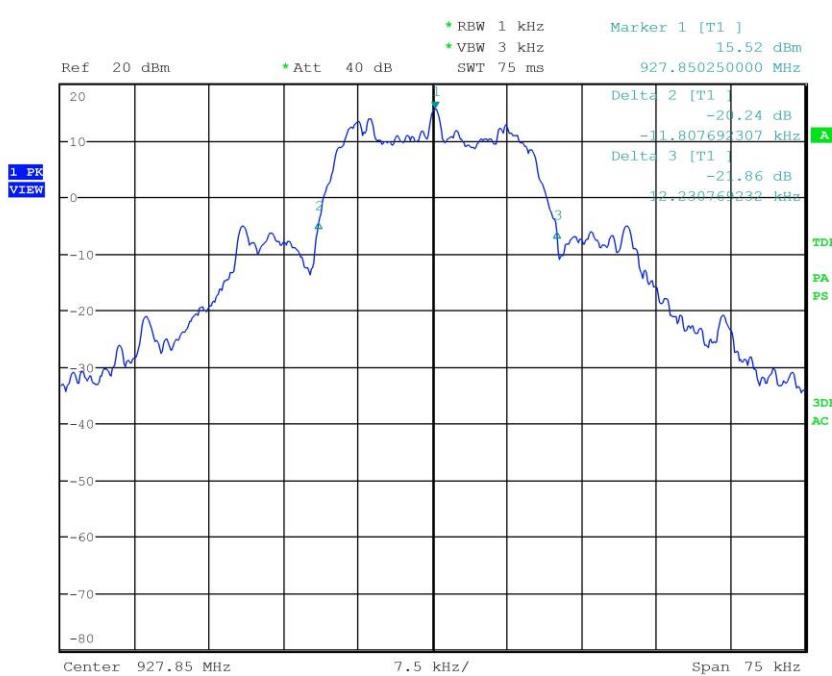
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178854

Test Spec



Result: The requirements are met



11.4 Channel separation

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

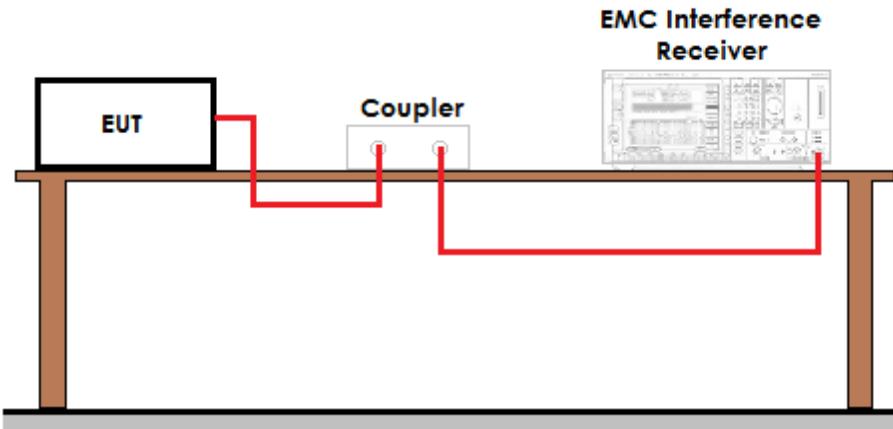
Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 20 | 100 | 42 |

Acceptance limits: frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483,5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW



Setup



Result

| Frequency band (MHz) | Graphs | Channel separation (kHz) | Minimum channel separation required (kHz) | Results |
|----------------------|-----------|--------------------------|----------------------------------------------------------------------------|----------|
| 902 – 928 | G16178835 | 201,0 | 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater | Complies |



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Graphs

G16178835

Meas Type Emission

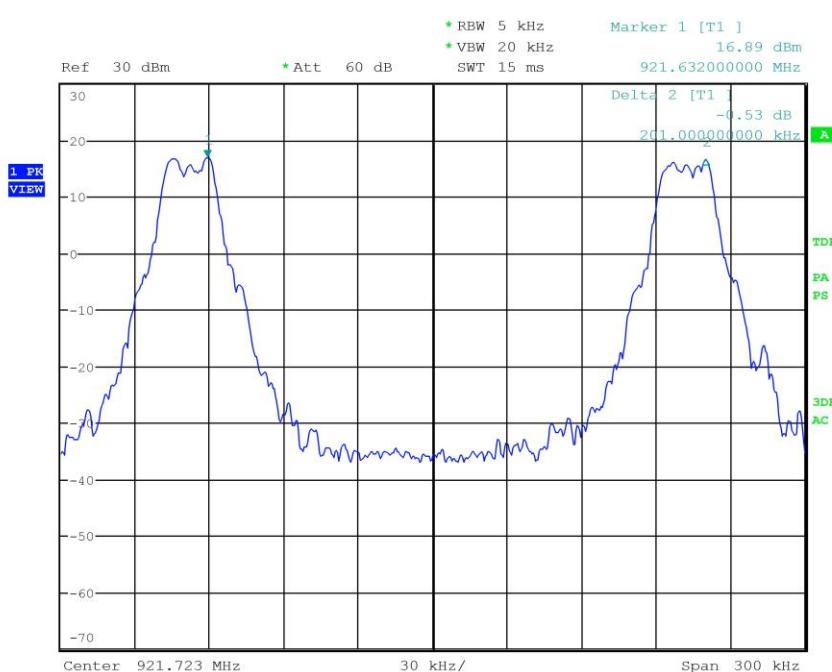
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178835

Test Spec



Result: The requirements are met



11.5 Number of hopping channels

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

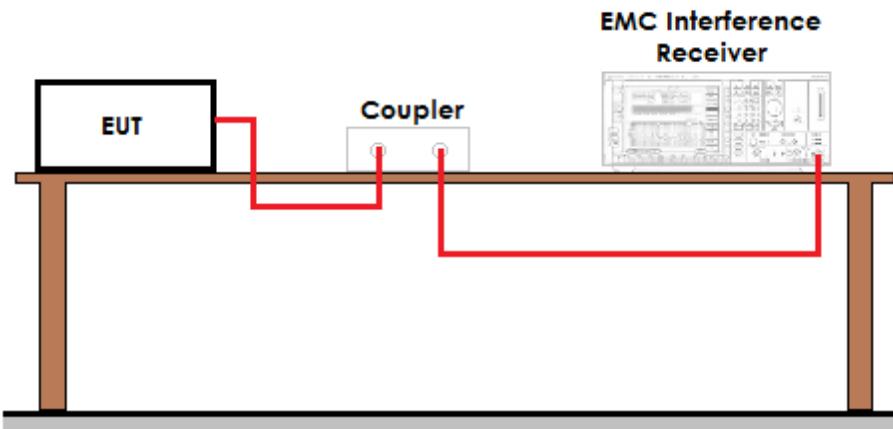
Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 20 | 100 | 42 |

Acceptance limits: for frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies. Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.



Setup



Result

| Graphs | Number of hopping channels | Minimum number of hopping channels required | Results |
|-----------|----------------------------|---------------------------------------------------------------------------------------------------|----------|
| G16178834 | 64 | 50 if the 20 dB bandwidth is less than 250 kHz 25 if the 20 dB bandwidth is 250 kHz or greater | Complies |



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LAB N° 0168

Graphs

G16178834

Meas Type Emission

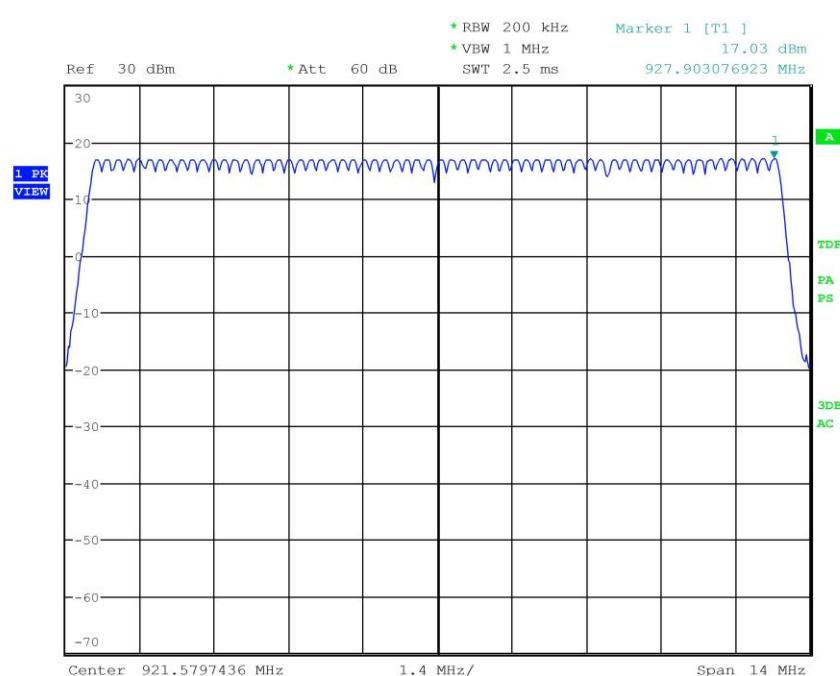
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178834

Test Spec



Result: The requirements are met



11.6 Time of occupancy

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

Environmental conditions

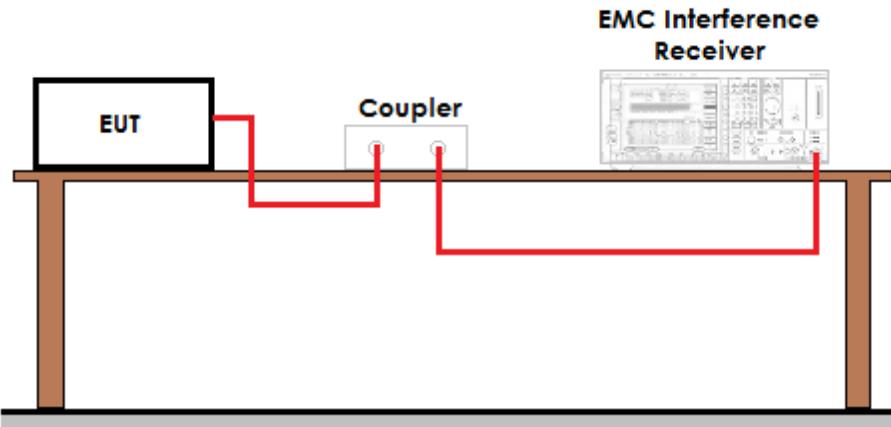
| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 22 | 100 | 42 |

Acceptance limits:

For frequency hopping systems operating in the 902–928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0,4 seconds within a 10 second period



Setup



Result

Dwell time of transmission

| Frequency (MHz) | Graphs | Dwell time (ms) |
|-----------------|-----------|-----------------|
| 921,58 | G16178836 | 21,634 |

Number of transmissions per period

| Frequency (MHz) | Time between 2 transmission on different channels | Number of transmissions (20000 ms / 49,519 ms / number of channels) |
|-----------------|---------------------------------------------------|---------------------------------------------------------------------|
| 921,58 | G16178836 | 49,519 ms |

| | |
|-------------------------------------------------------------|-----------|
| Time of occupancy (Dwell time x Number of transmissions) | 136,53 ms |
|-------------------------------------------------------------|-----------|



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Graphs

G16178836

Meas Type Emission

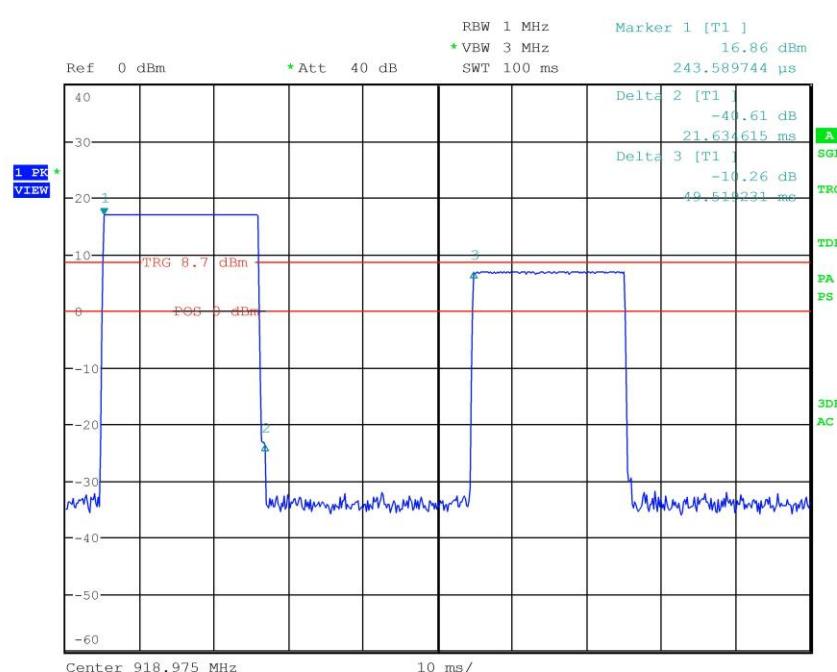
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178836

Test Spec



Result: The requirements are met



11.7 Band edge

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S227
Measurement uncertainty: See clause 7 of this test report

Test specification

See FCC Part 15.247

Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 22 | 100 | 45 |

Acceptance limits: operation within the band 902 – 928 MHz



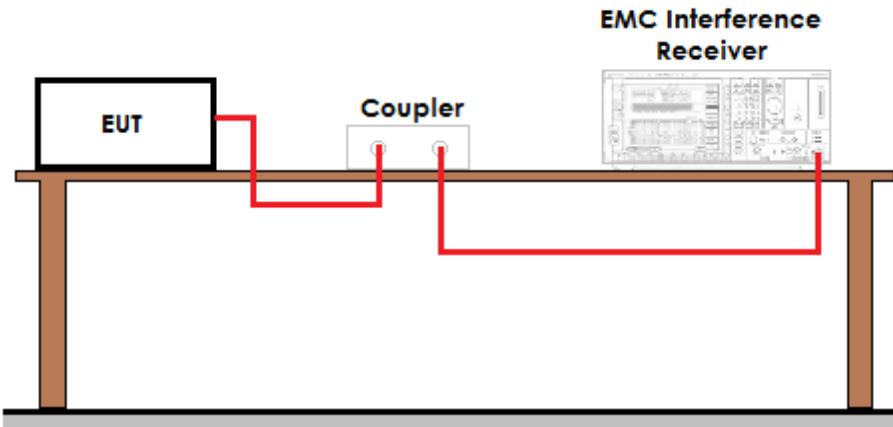
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ACCREDIA
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LAB N° 0168

Setup



Result

| Frequency (MHz) | Graph(s) – Hopping | Results | |
|-----------------|--------------------|---------------------------------|----------|
| 915,15 | G16178842 | F _L : 915,126153 MHz | Complies |
| 927,85 | G16178858 | F _H : 927,874717 MHz | Complies |

| Frequency (MHz) | Graph(s) – No hopping | Results | |
|-----------------|-----------------------|---------------------------------|----------|
| 915,15 | G16178843 | F _L : 915,125352 MHz | Complies |
| 927,85 | G16178859 | F _H : 927,876000 MHz | Complies |



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ACCREDIA
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LAB N° 0168

Graphs

G16178842

Meas Type Emission

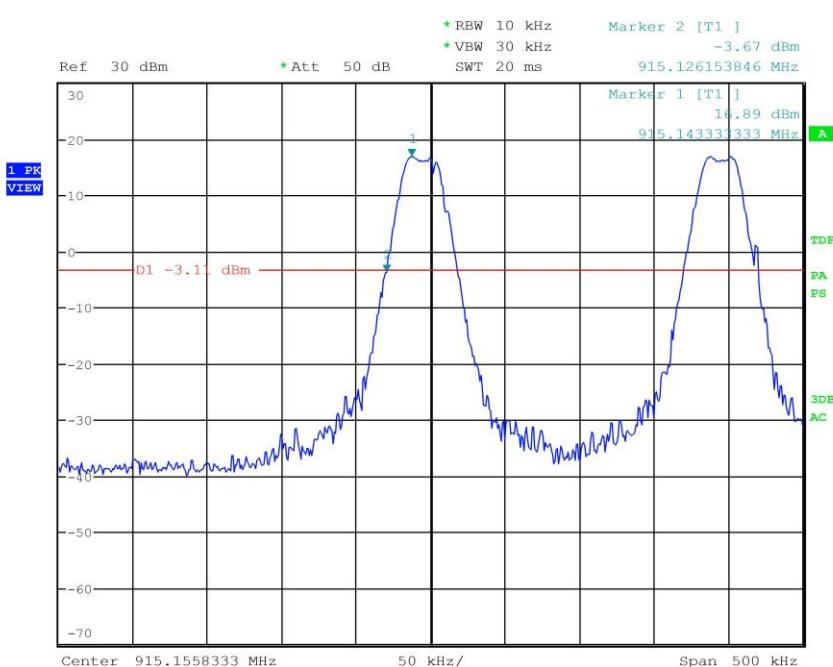
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178842

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178843

Meas Type Emission

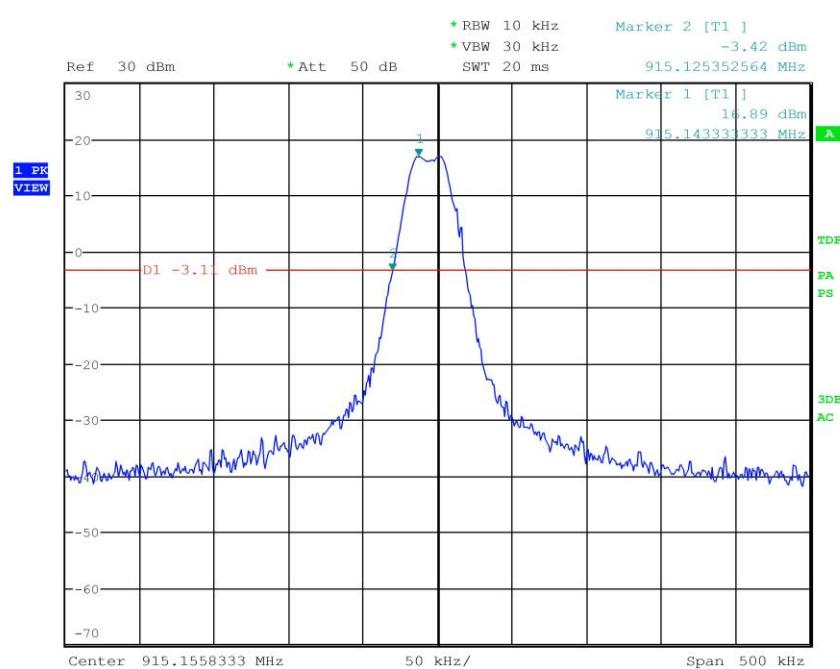
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178843

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178858

Meas Type Emission

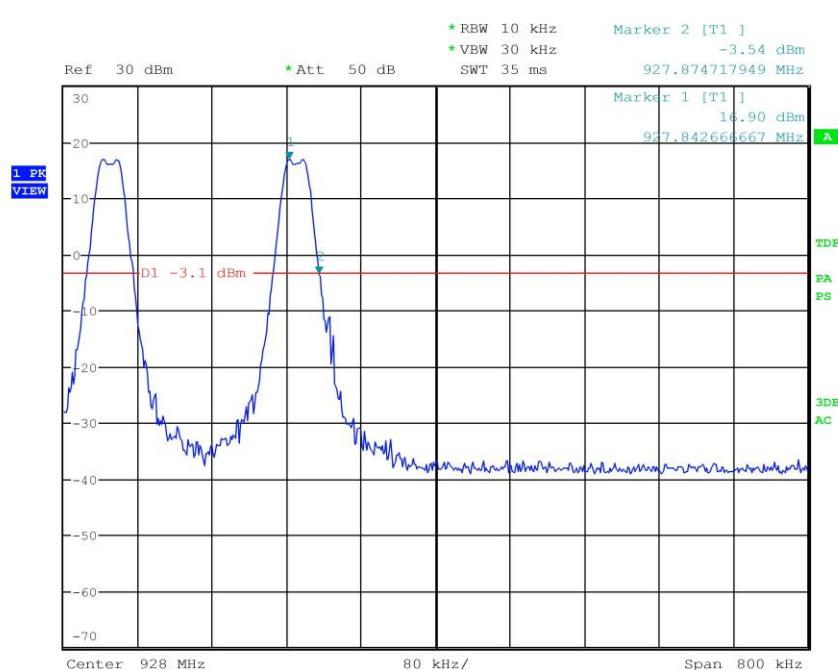
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178858

Test Spec



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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178859

Meas Type Emission

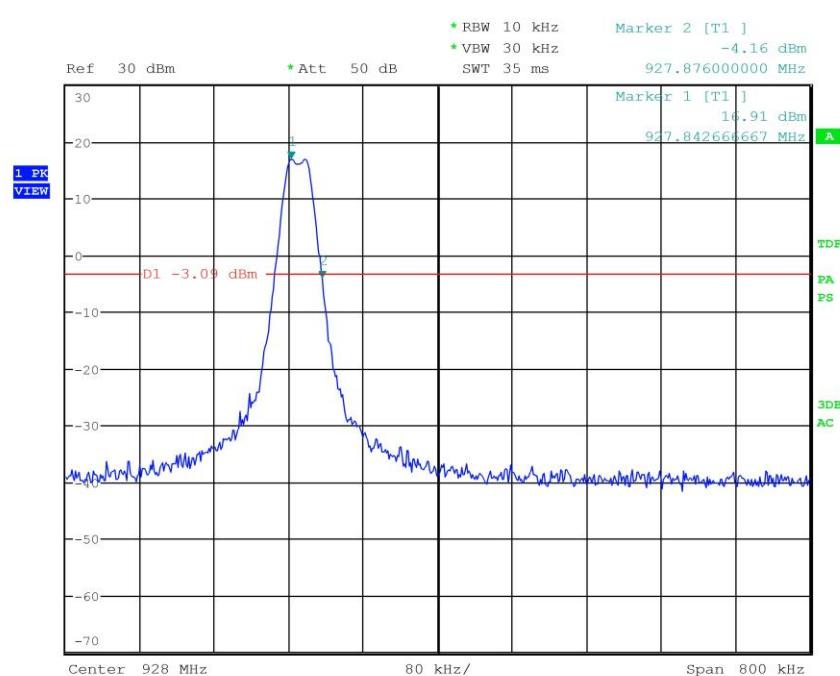
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178859

Test Spec



Result: The requirements are met



11.8 Peak Output Power

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.247
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test configuration and test method

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Antenna

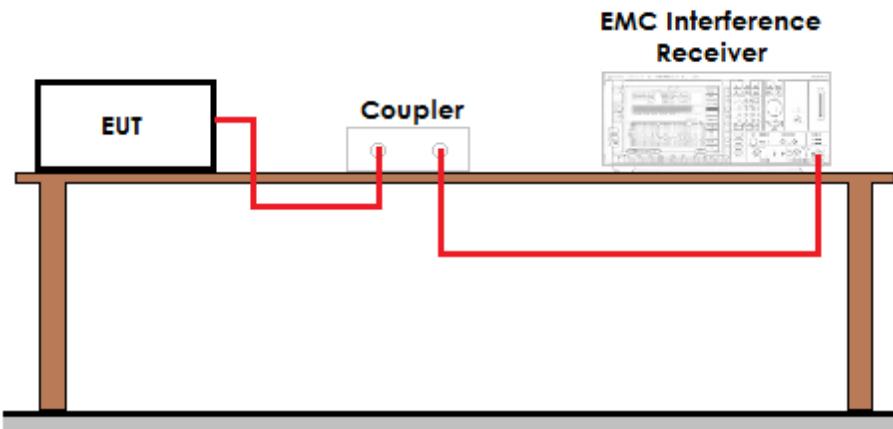
Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 20 | 100 | 45 |

For frequency hopping systems operating in the 2400–2483,5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483,5 MHz band: 0,125 watts. For frequency hopping systems operating in the 902–928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0,25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels.



Setup



Result

| Frequency (MHz) | Graphs | Measured QP level (dBm) | Peak Output Power (mW) | Remarks |
|-----------------|----------|-------------------------|------------------------|---------|
| 915,150 | 16178839 | 16,91 | 49,09 | -- |
| 921,500 | 16178850 | 16,93 | 49,32 | -- |
| 927,850 | 16178855 | 16,95 | 49,55 | -- |



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ACCREDIA
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LAB N° 0168

Graphs

G16178839

Meas Type Emission

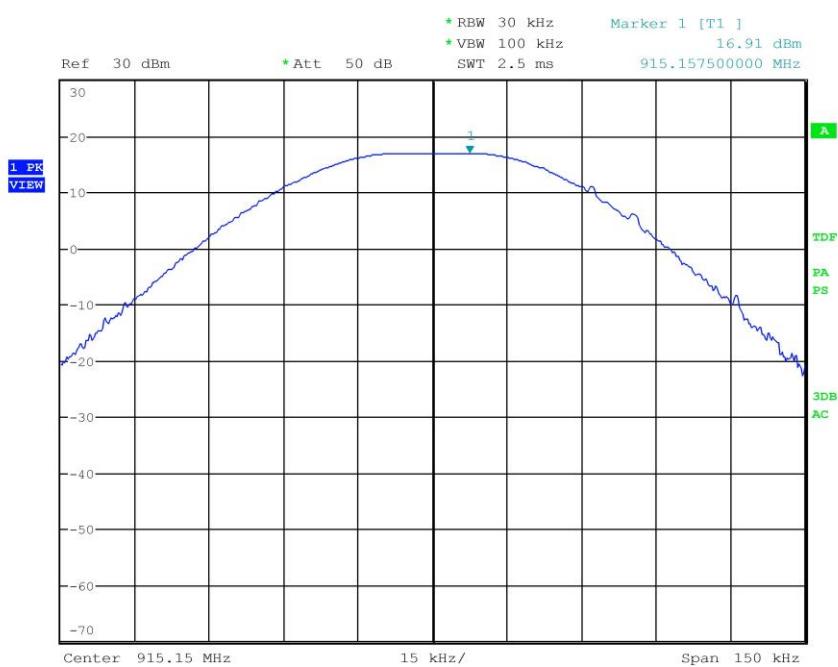
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178839

Test Spec





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ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178850

Meas Type Emission

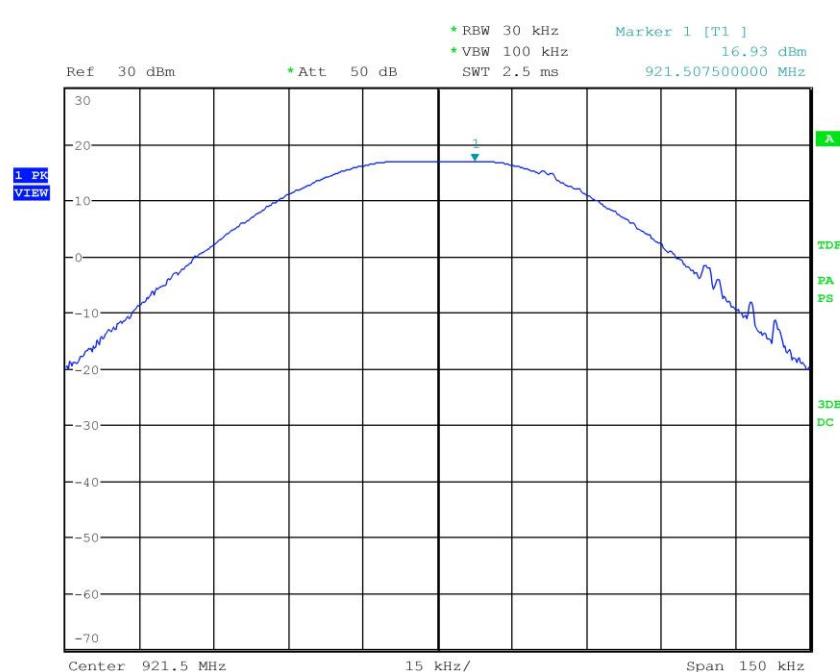
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178850

Test Spec





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Via della Fisica, 20
36016 Thiene (VI)



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAB N° 0168

G16178855

Meas Type Emission

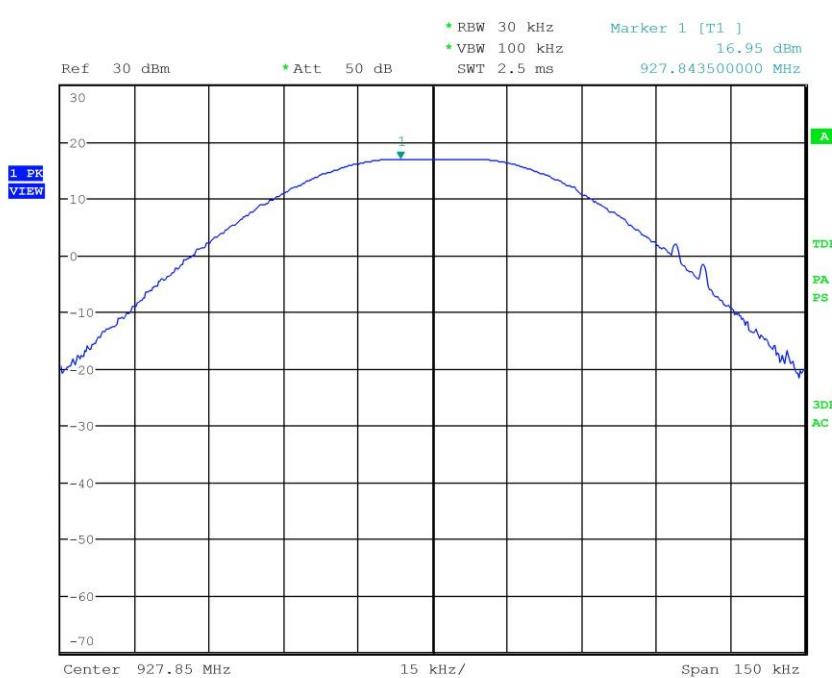
Equipment under Test

Manufacturer

OP Condition

Operator Bertezzolo 16178855

Test Spec



Result: The requirements are met



11.9 Spurious Emission

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.209
- DA 00-705
- Internal procedure PM001
- See clause 4 of this test report

Test configuration and test method

Test site:
Semi-anechoic chamber

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Enclosure
Antenna polarization: Horizontal (H) – Vertical (V)
EUT – Antenna distance: 3 m
Detector AV + Peak

Environmental conditions

| Temperature (°C) | Atmospheric pressure (kPa) | Relative humidity (%) |
|---------------------|-------------------------------|--------------------------|
| 22 | 100 | 45 |

Acceptance limits

| Acceptance limits for emissions in restricted frequency bands | | |
|---------------------------------------------------------------|-------------------------|---------------------------|
| Frequency (MHz) | AV limits [dB(µV/m)] | Peak limits [dB(µV/m)] |
| > 1000 | 54 | 74 |



The restricted frequency bands are listed in the following table

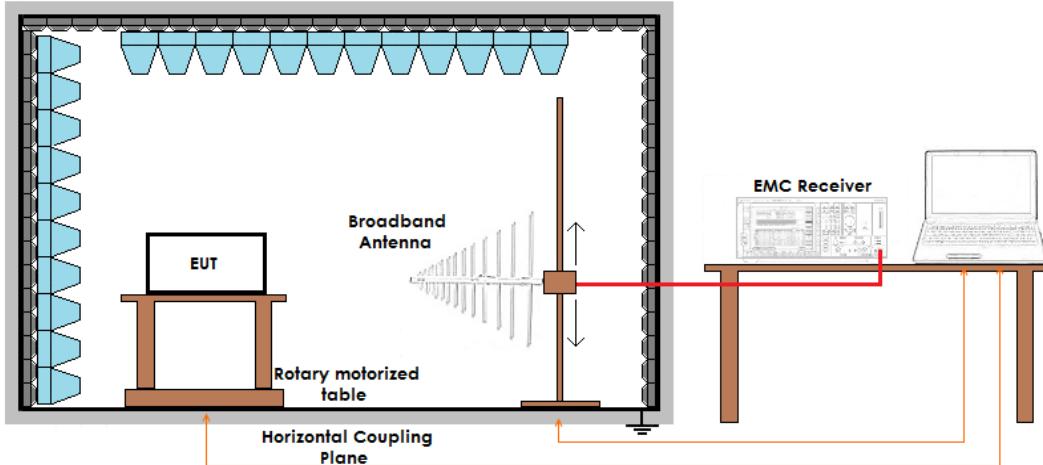
| MHz | MHz | MHz | GHz |
|---------------------|-----------------------|-----------------|---------------|
| 0,090 – 0,110 | 16,42 – 16,423 | 399,9 – 410 | 4,5 – 5,15 |
| 0,495 – 0,505 | 16,69475 – 16,69525 | 608 – 614 | 5,35 – 5,46 |
| 2,1735 – 2,1905 | 16,80425 – 16,80475 | 960 – 1240 | 7,25 – 7,75 |
| 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 | 2690 – 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 | Above 38,6 |
| 13,36 – 13,41 | | | |

Acceptance limits for emissions in non-restricted frequency bands

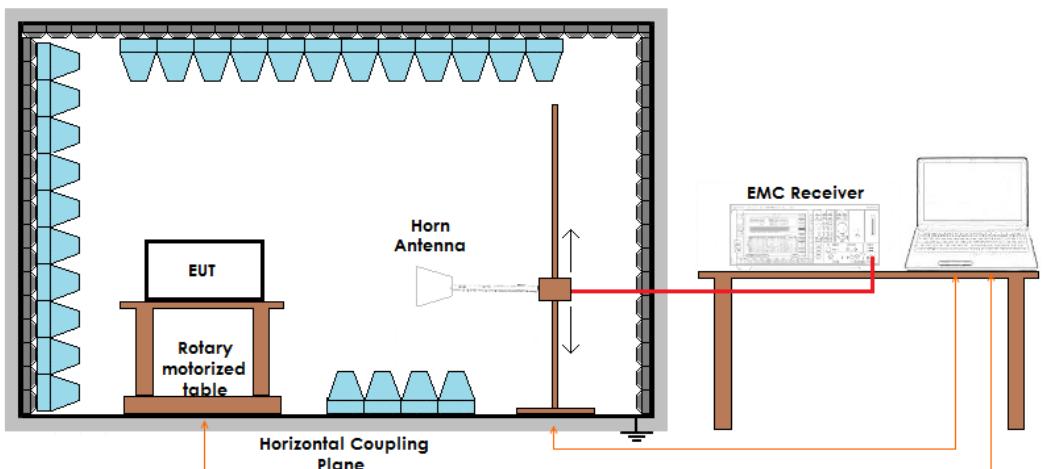
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

Setup

Frequency \leq 1 GHz



Frequency $>$ 1 GHz





Result – AV detector

| Harmonic | Lowest channel Level (dB μ V/m) | Medium channel Level (dB μ V/m) | Highest channel Level (dB μ V/m) | Results |
|----------|-------------------------------------------|-------------------------------------------|--------------------------------------------|---------|
| | Limits (dB μ V/m) | Limits (dB μ V/m) | Limits (dB μ V/m) | |
| II | 48,20 | 54,00 | 50,44 | 54,00 |
| III | More than 20 dB below limit | 54,00 | 38,81 | 54,00 |
| IV | 38,53 | 54,00 | 40,13 | 54,00 |
| V | 38,91 | 54,00 | 39,67 | 54,00 |
| VI | 49,07 | 54,00 | 46,96 | 54,00 |
| VII | 41,42 | 54,00 | 40,91 | 54,00 |
| VIII | More than 20 dB below limit | 54,00 | More than 20 dB below limit | 54,00 |
| IX | 45,27 | 54,00 | 45,68 | 54,00 |
| X | More than 20 dB below limit | 54,00 | More than 20 dB below limit | 54,00 |

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values

Result – Peak detector

| Harmonic | Lowest channel Level (dB μ V/m) | Medium channel Level (dB μ V/m) | Highest channel Level (dB μ V/m) | Results |
|----------|-------------------------------------------|-------------------------------------------|--------------------------------------------|---------|
| | Limits (dB μ V/m) | Limits (dB μ V/m) | Limits (dB μ V/m) | |
| II | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| III | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| IV | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| V | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| VI | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| VII | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| VIII | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |
| IX | 55,84 | 74,00 | 55,99 | 74,00 |
| X | More than 20 dB below limit | 74,00 | More than 20 dB below limit | 74,00 |

Remarks: EUT was tested in 3 orthogonal planes. The results in this table show the highest values

Result: The requirements are met



11.10 Maximum permissible exposure

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 1.1310
- Internal procedure PM001
- See clause 4 of this test report

Test configuration

Test site:
Laboratory

Auxiliary equipment:
See clause 4 of this test report

EUT exercising

See clause 4 of this test report

Test equipment used

CMC S108, CMC S136, CMC S164
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Antenna

Acceptance limits

1 mW/cm² max at 20 cm of distance

Result

| Power Density Limit (mW/cm ²) | Maximum Output Power (mW) | Antenna Gain (G) | Power Density at 20 cm (mW/cm ²) | Remarks |
|----------------------------------------------|---------------------------------|---------------------|----------------------------------------------------|----------|
| 1,00 | 49,55 | 1,585 | 0,016 | Measured |

Remarks: Power Density = (P x G) / (4πR²)

Result: The requirements are met