

# Radiated Emission Test 9 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:  
SLG 41

Serial no.:  
---

Applicant:  
Siemens AG

Test site:  
Shielded room, cabin no. 2

Tested on:  
Test distance 3 metres

Date of test: 10/25/1999      Operator: R. Heller

Test performed: automatically      File name:

Mode:  
- EUT with bottom side on table  
  
- without transponder

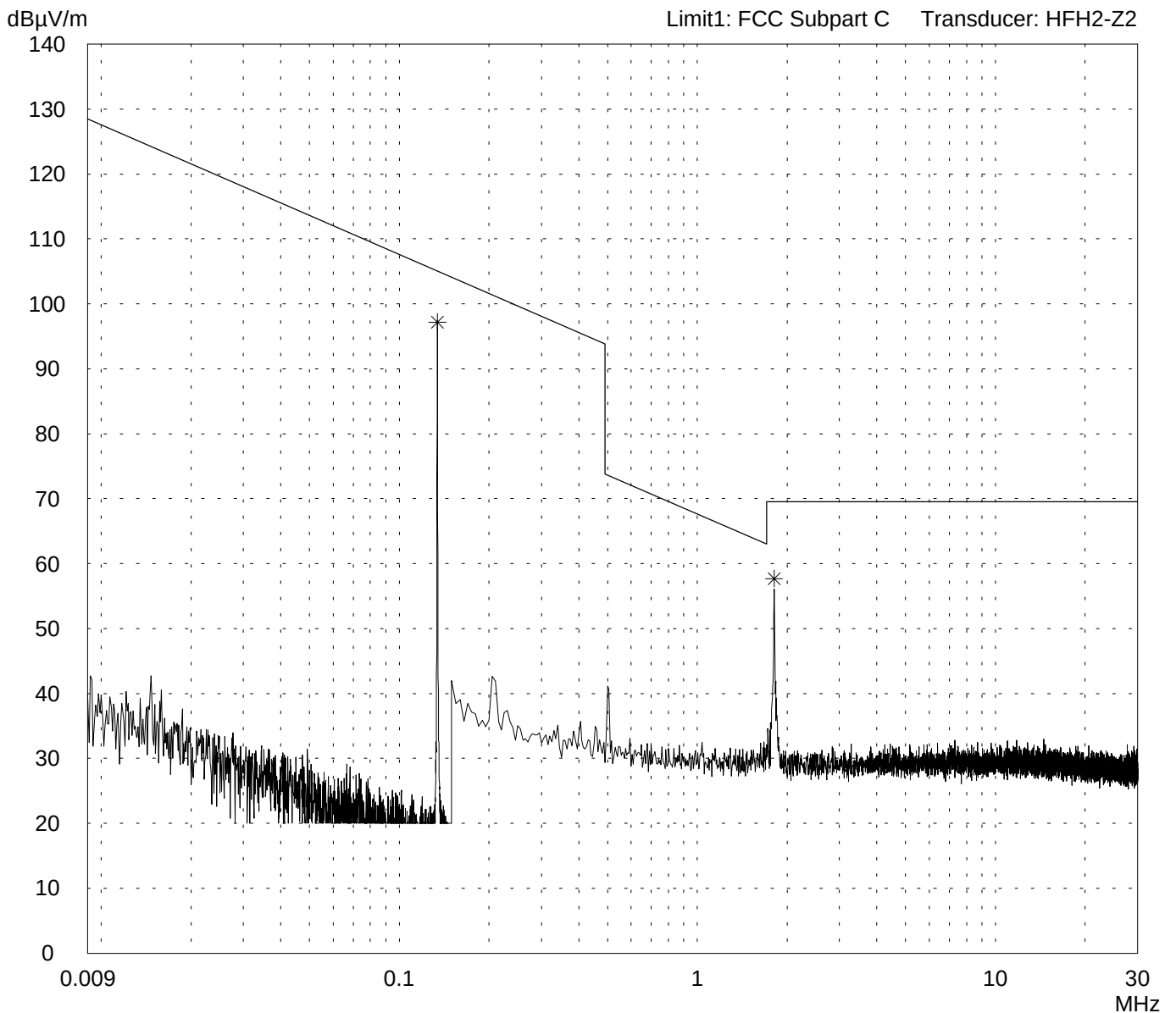
Additional final results:

- without transponder:  
0.1342 MHz: 97.2 dB $\mu$ V/m (AV-detector)

- with transponder MDS 302  
0.1342 MHz: 89.5 dB $\mu$ V/m (QP-detector)  
0.1342 MHz: 89.5 dB $\mu$ V/m (AV-detector)  
1.810 MHz: 57.0 dB $\mu$ V/m (QP-detector)

Detector:  
Peak / Final Results: QP

Final results:  
20 dB Margin      25 Subranges



Result:  
Prescan

Project file:  
51905-80642

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|                                          |                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model:<br>SLG 41                         | Mode:<br>- EUT with bottom side on table<br><br>- without transponder<br><br>Additional final results:<br><br>- without transponder:<br>0.1342 MHz: 97.2 dBµV/m (AV-detector)<br><br>- with transponder MDS 302<br>0.1342 MHz: 89.5 dBµV/m (QP-detector)<br>0.1342 MHz: 89.5 dBµV/m (AV-detector)<br>1.810 MHz: 57.0 dBµV/m (QP-detector) |
| Serial no.:<br>---                       |                                                                                                                                                                                                                                                                                                                                           |
| Applicant:<br>Siemens AG                 |                                                                                                                                                                                                                                                                                                                                           |
| Test site:<br>Shielded room, cabin no. 2 |                                                                                                                                                                                                                                                                                                                                           |
| Tested on:<br>Test distance 3 metres     |                                                                                                                                                                                                                                                                                                                                           |
| Date of test:<br>10/25/1999              |                                                                                                                                                                                                                                                                                                                                           |
| Test performed:<br>automatically         | File name:                                                                                                                                                                                                                                                                                                                                |

|                          |                                                |
|--------------------------|------------------------------------------------|
| Detector:                | Final results:                                 |
| Peak / Final Results: QP | 20 dB Margin                      25 Subranges |

| Frequency<br>MHz | Reading<br>$\text{dB}\mu\text{V}$ | Correction factor<br>$\text{dB}$ | Value<br>$\text{dB}\mu\text{V/m}$ | Limit<br>$\text{dB}\mu\text{V/m}$ | Limit exceeded |
|------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------|
| 0.1342<br>1.8100 | 77.2<br>37.7                      | 20.0<br>20.0                     | 97.2<br>57.7                      | 105.0<br>69.5                     |                |

|                    |                              |      |    |       |
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Tested on:  
Test distance 3 metres

Date of test: 10/25/1999      Operator: R. Heller

Test performed: automatically      File name:

Mode:  
- EUT with right hand side on table  
  
- without transponder

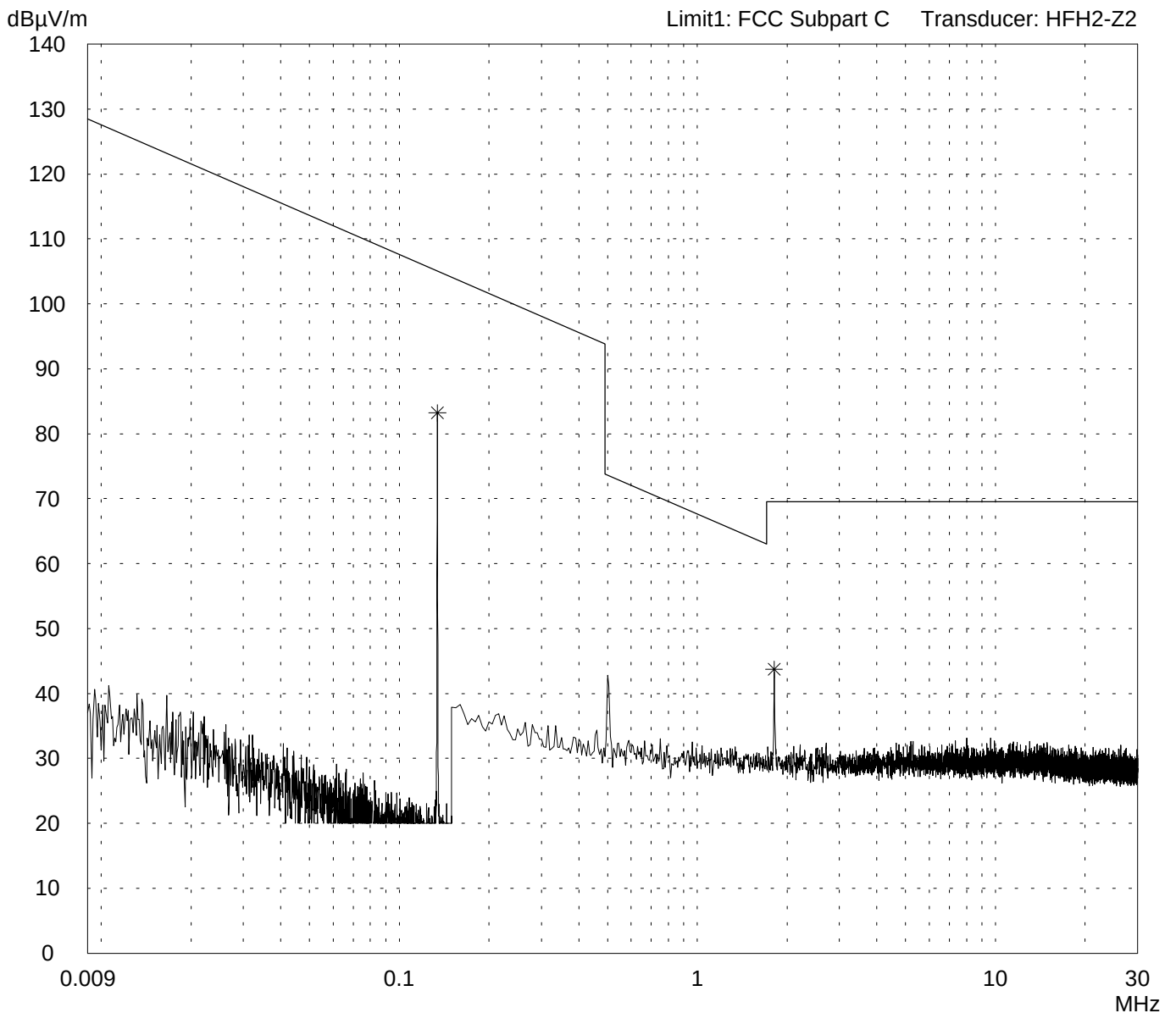
Additional final results:

- without transponder:  
0.1342 MHz: 83.2 dB $\mu$ V/m (AV-detector)

- with transponder MDS 302  
0.1342 MHz: 72.3 dB $\mu$ V/m (QP-detector)  
0.1342 MHz: 72.3 dB $\mu$ V/m (AV-detector)  
1.810 MHz: 42.4 dB $\mu$ V/m (QP-detector)

Detector:  
Peak / Final Results: QP

Final results:  
Selected by hand



Result:  
Prescan

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## Radiated Emission Test 9 kHz - 30 MHz according to FCC Part 15 Subpart C

|                                          |                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model:<br>SLG 41                         | Mode:<br>- EUT with right hand side on table<br><br>- without transponder<br><br>Additional final results:<br><br>- without transponder:<br>0.1342 MHz: 83.2 dBµV/m (AV-detector)<br><br>- with transponder MDS 302<br>0.1342 MHz: 72.3 dBµV/m (QP-detector)<br>0.1342 MHz: 72.3 dBµV/m (AV-detector)<br>1.810 MHz: 42.4 dBµV/m (QP-detector) |
| Serial no.:<br>---                       |                                                                                                                                                                                                                                                                                                                                               |
| Applicant:<br>Siemens AG                 |                                                                                                                                                                                                                                                                                                                                               |
| Test site:<br>Shielded room, cabin no. 2 |                                                                                                                                                                                                                                                                                                                                               |
| Tested on:<br>Test distance 3 metres     |                                                                                                                                                                                                                                                                                                                                               |
| Date of test:<br>10/25/1999              | Operator:<br>R. Heller                                                                                                                                                                                                                                                                                                                        |
| Test performed:<br>automatically         | File name:                                                                                                                                                                                                                                                                                                                                    |

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Detector:<br>Peak / Final Results: QP | Final results:<br>Selected by hand |
|---------------------------------------|------------------------------------|

| Frequency<br>MHz | Reading<br>dBµV | Correction factor<br>dB | Value<br>dBµV/m | Limit<br>dBµV/m | Limit<br>exceeded |
|------------------|-----------------|-------------------------|-----------------|-----------------|-------------------|
| 0.1342<br>1.8100 | 63.2<br>23.7    | 20.0<br>20.0            | 83.2<br>43.7    | 105.0<br>69.5   |                   |

|                    |                              |      |    |       |
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Tested on:  
Test distance 3 metres

Date of test:  
10/25/1999

Operator:  
R. Heller

Test performed:  
automatically

File name:

Mode:

- EUT with back side on table

- without transponder

Additional final result:

0.1342 MHz: 98.2 dB $\mu$ V/m (AV-detector)

Detector:

Peak / Final Results: QP

Final results:

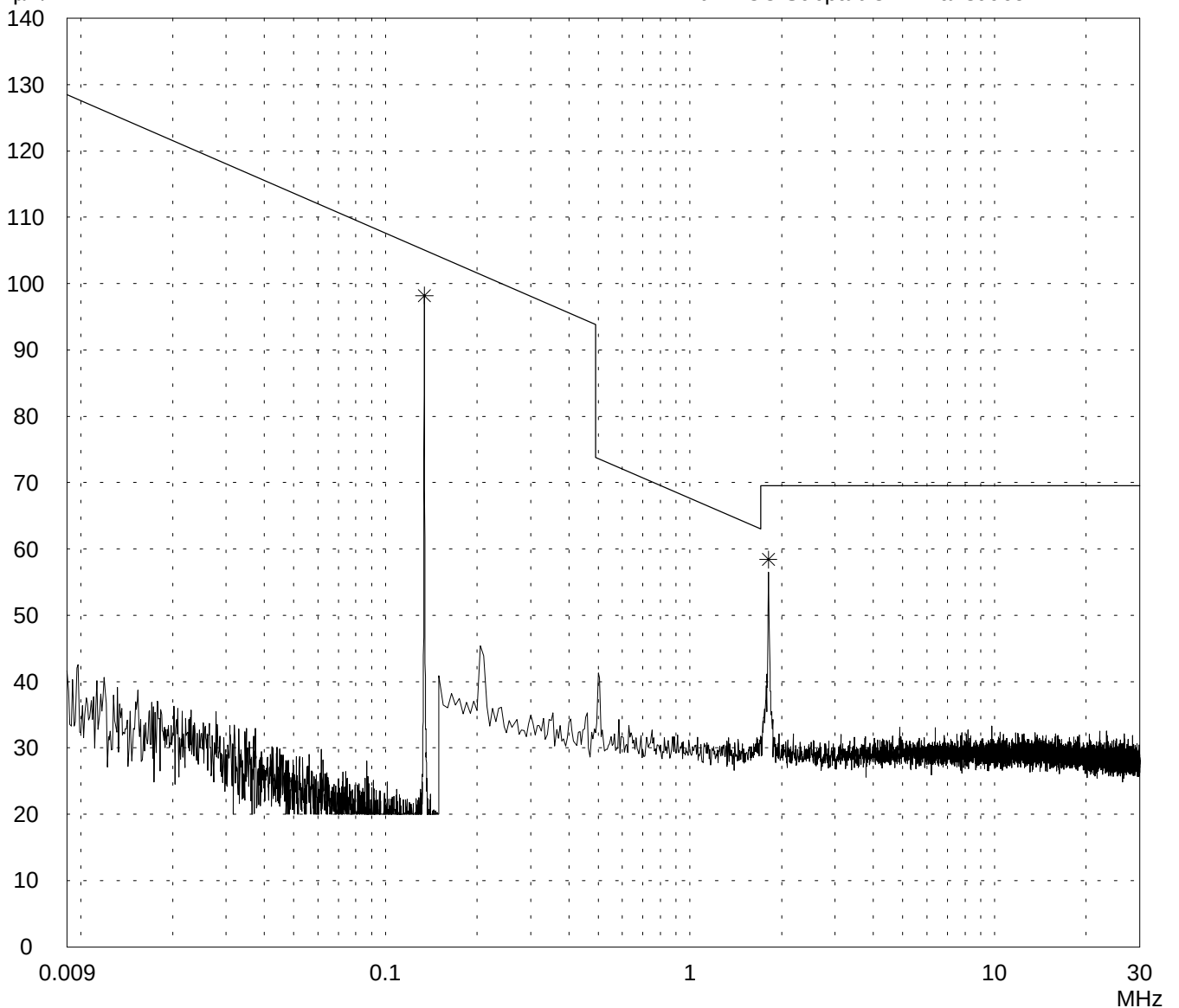
20 dB Margin

25 Subranges

dB $\mu$ V/m

Limit1: FCC Subpart C

Transducer: HFH2-Z2



Result:  
Prescan

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## Radiated Emission Test 9 kHz - 30 MHz according to FCC Part 15 Subpart C

|                                                 |                                                                                                                                              |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Model:<br>SLG 41                                | Mode:<br>- EUT with back side on table<br><br>- without transponder<br><br>Additional final result:<br>0.1342 MHz: 98.2 dBµV/m (AV-detector) |
| Serial no.:<br>---                              |                                                                                                                                              |
| Applicant:<br>Siemens AG                        |                                                                                                                                              |
| Test site:<br>Shielded room, cabin no. 2        |                                                                                                                                              |
| Tested on:<br>Test distance 3 metres            |                                                                                                                                              |
| Date of test: 10/25/1999<br>Operator: R. Heller |                                                                                                                                              |
| Test performed: automatically<br>File name:     |                                                                                                                                              |

|                          |                                                |
|--------------------------|------------------------------------------------|
| Detector:                | Final results:                                 |
| Peak / Final Results: QP | 20 dB Margin                      25 Subranges |

| <i>Frequency<br/>MHz</i> | <i>Reading<br/>dBμV</i> | <i>Correction factor<br/>dB</i> | <i>Value<br/>dBμV/m</i> | <i>Limit<br/>dBμV/m</i> | <i>Limit<br/>exceeded</i> |
|--------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|---------------------------|
| 0.1342                   | 78.2                    | 20.0                            | 98.2                    | 105.0                   |                           |
| 1.8100                   | 38.4                    | 20.0                            | 58.4                    | 69.5                    |                           |

|                    |                              |      |    |       |
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Applicant:  
Siemens AG

Test site:  
Shielded room, cabin no. 2

Tested on:  
Test distance 3 metres

Date of test:  
10/25/1999

Operator:  
R. Heller

Test performed:  
automatically

File name:

Mode:

- EUT with back side on table

- with transponder MDS 302

Additional final result:

0.1342 MHz: 85.7 dB $\mu$ V/m (AV-detector)

Detector:

Peak / Final Results: QP

Final results:

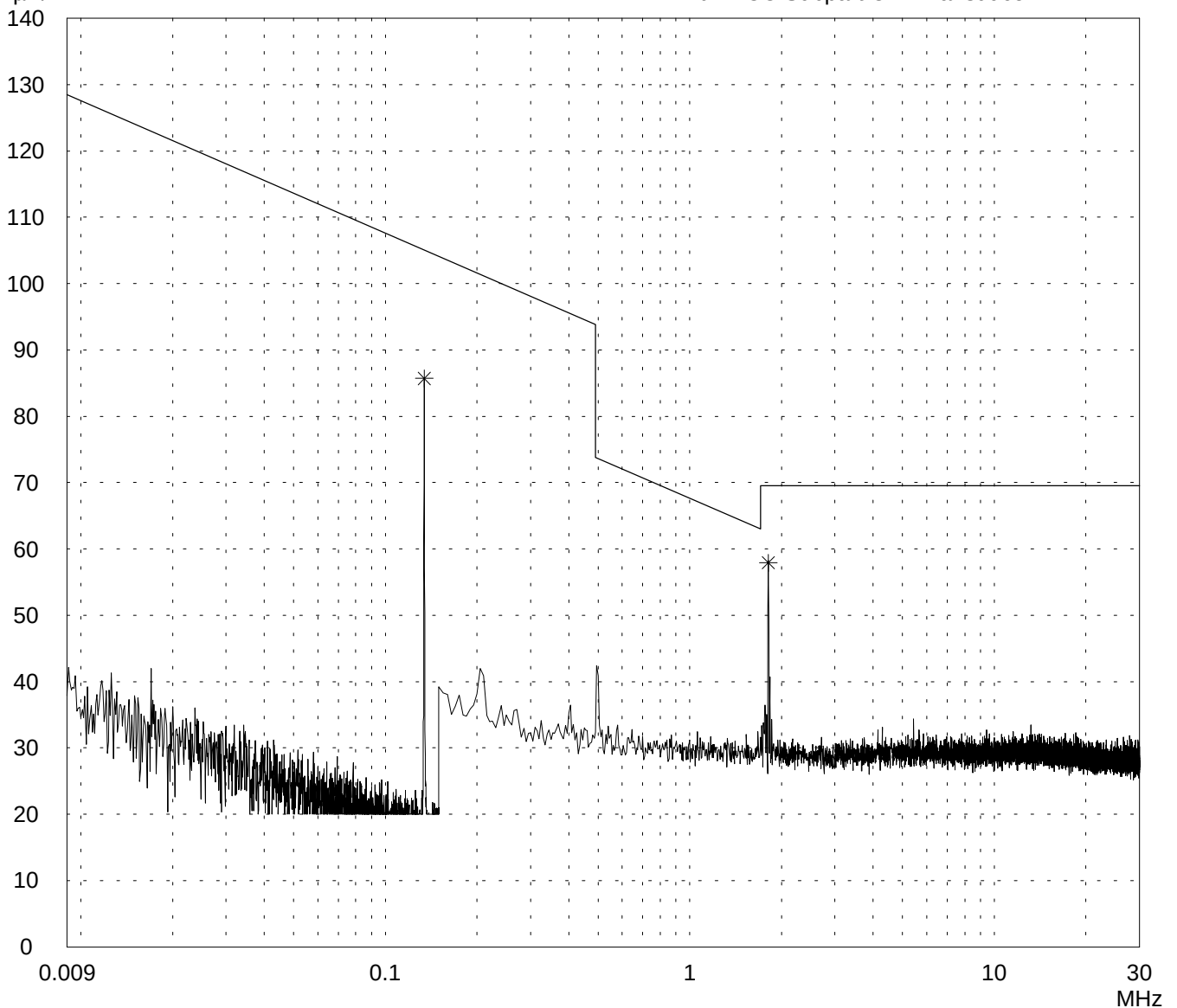
20 dB Margin

25 Subranges

dB $\mu$ V/m

Limit1: FCC Subpart C

Transducer: HFH2-Z2



Result:  
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# Radiated Emission Test 9 kHz - 30 MHz according to FCC Part 15 Subpart C

|                                                 |                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Model:<br>SLG 41                                | Mode:<br>- EUT with back side on table<br><br>- with transponder MDS 302<br><br>Additional final result:<br>0.1342 MHz: 85.7 dBµV/m (AV-detector) |
| Serial no.:<br>---                              |                                                                                                                                                   |
| Applicant:<br>Siemens AG                        |                                                                                                                                                   |
| Test site:<br>Shielded room, cabin no. 2        |                                                                                                                                                   |
| Tested on:<br>Test distance 3 metres            |                                                                                                                                                   |
| Date of test: 10/25/1999<br>Operator: R. Heller |                                                                                                                                                   |
| Test performed: automatically<br>File name:     |                                                                                                                                                   |

|                          |                                                |
|--------------------------|------------------------------------------------|
| Detector:                | Final results:                                 |
| Peak / Final Results: QP | 20 dB Margin                      25 Subranges |

| <i>Frequency<br/>MHz</i> | <i>Reading<br/>dBμV</i> | <i>Correction factor<br/>dB</i> | <i>Value<br/>dBμV/m</i> | <i>Limit<br/>dBμV/m</i> | <i>Limit<br/>exceeded</i> |
|--------------------------|-------------------------|---------------------------------|-------------------------|-------------------------|---------------------------|
| 0.1342                   | 65.7                    | 20.0                            | 85.7                    | 105.0                   |                           |
| 1.8120                   | 37.9                    | 20.0                            | 57.9                    | 69.5                    |                           |

|                    |                              |      |    |       |
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**Field Strength of Emissions according to FCC Rules,  
Part 15, Subpart C, Section 15.209  
Frequency Band 0.009 - 30 MHz**

Model: SLG 41  
 Type: N.A.  
 Serial No. N.A.  
 Applicant: Siemens AG  
 Test Site: Open Field Test Site (without Ground Plane)  
 Distance: 30 Meter  
 Date of Test: August 03, 1998

| Frequency (MHz) | Detector | Antenna Polarization | Receiver Reading (dBμV) | Correction Factor (dB) | Field Strength (dBμV/m) | Limit dBμV/m | Margin dB   |
|-----------------|----------|----------------------|-------------------------|------------------------|-------------------------|--------------|-------------|
| 0.1338          | QP       | ---                  | 27.2                    | 20                     | 47.2                    | 65           | <b>17.8</b> |
|                 |          |                      |                         |                        |                         |              |             |
|                 |          |                      |                         |                        |                         |              |             |
|                 |          |                      |                         |                        |                         |              |             |
|                 |          |                      |                         |                        |                         |              |             |
|                 |          |                      |                         |                        |                         |              |             |

**Sample calculation of field strength values:**

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Receiver Reading (dB}\mu\text{V)} + \text{Correction Factor (dB)}$$

Limit extrapolated by using the square of an inverse linear distance  
 extrapolation factor (40 dB/decade)

Test equipment used (see equipment list for details):  
 03, 04, 37, 63, 66