



## TEST REPORT nr. R18175301

### Federal Communication Commission (FCC)

#### Test item

Description.....: COMPACT UHF NEAR FIELD RFID DESKTOP READER  
Trademark.....: CAEN RFID  
Model/Type .....: WR1251IUNFBA  
FCC ID .....: UVECAENRFID029

#### Test Specification

Standard.....: FCC Rules & Regulations, Title 47:2017  
Part 15 paragraph(s): 107 and 109

**Client's name** .....: CAEN RFID S.r.l.

Address .....: Via Vetraia, 11 – 55049 Viareggio (LU) – ITALY

**Manufacturer's name** : Same as client

Address .....: --

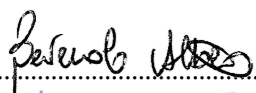
#### Report

Tested by .....: A. Bertezolo

Approved by .....: R. Beghetto – Laboratory Manager

Date of issue .....: 09.08.18

Contents.....: 31 pages


This test report shall not be reproduced except in full without the written approval of CMC.  
The test results presented in this report relate only to the item tested.



## Index

|      |                                                              |    |
|------|--------------------------------------------------------------|----|
| 1.   | SUMMARY.....                                                 | 3  |
| 2.   | DESCRIPTION OF EQUIPMENT UNDER TEST (EUT).....               | 4  |
| 2.1  | TEST SITE .....                                              | 4  |
| 3.   | TESTING AND SAMPLING .....                                   | 4  |
| 4.   | OPERATIVE CONDITIONS.....                                    | 4  |
| 5.   | PHOTOGRAPH(S) OF EUT .....                                   | 5  |
| 5.1  | PHOTOGRAPH(S) OF EUT .....                                   | 5  |
| 6.   | EQUIPMENT LIST.....                                          | 6  |
| 7.   | MEASUREMENT UNCERTAINTY .....                                | 7  |
| 8.   | REFERENCE DOCUMENTS.....                                     | 9  |
| 9.   | DEVIATION FROM TEST SPECIFICATION.....                       | 10 |
| 10.  | TEST CASE VERDICTS.....                                      | 10 |
| 11.  | RESULTS.....                                                 | 11 |
| 11.1 | CONTINUOUS DISTURBANCE VOLTAGE TEST (150 kHz – 30 MHz) ..... | 12 |
| 11.2 | RADIATED DISTURBANCE TEST.....                               | 18 |



## 1. Summary

### Emission Test:

FCC Rules & Regulations, Title 47:2017  
Part 15 paragraph(s): 107 and 109

| Test specifications    | Environmental Phenomena        | Port           | Tests sequence | Result   |
|------------------------|--------------------------------|----------------|----------------|----------|
| Part 15.107<br>Class B | Continuous disturbance voltage | Mains terminal | 2              | Complies |
| Part 15.109<br>Class B | Radiated disturbance           | Enclosure      | 1              | Complies |

The Test Report was given to the Client representatives for necessary documentation of ratification of the tested equipment and it is valid for the FCC certification.



## 2. Description of Equipment under test (EUT)

Power supply ..... : 5 Vdc from USB  
Tests performed on 120 V ~ 60 Hz side of auxiliary PC  
Power cable ..... : Unshielded  
Serial Number ..... : --

### 2.1 Test Site

Company ..... : CMC Centro Misure Compatibilità S.r.l.  
Address ..... : Via della Fisica, 20  
36016 Thiene (VI) – ITALY  
Test site facility's FCC registration number ..... : 182474

## 3. Testing and sampling

Date of receipt of test item ..... : 25.07.18  
Testing start date ..... : 07.08.18  
Testing end date ..... : 09.08.18  
Samples tested nr. .... : 1  
Sampling procedure. .... : Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion  
Internal identification ..... : adhesive label with the product number P180973

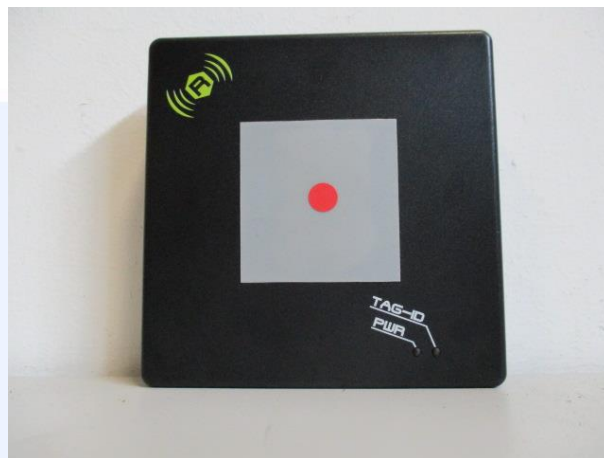
## 4. Operative conditions

EUT exercising ..... : EUT supplied from PC, link test running  
Auxiliary equipment ..... : PC Acer mod. Aspire One ZE6



## 5. Photograph(s) of EUT

### 5.1 Photograph(s) of EUT





## 6. Equipment list

| <i>Id. number</i> | <i>Manufacturer</i> | <i>Model</i>         | <i>Description</i>                  | <i>Serial number</i> | <i>Last calibration</i> | <i>Due date calibration</i> |
|-------------------|---------------------|----------------------|-------------------------------------|----------------------|-------------------------|-----------------------------|
| CMC S010          | Rohde & Schwarz     | ESH3-Z2              | Impulses Limiting Device            | ---                  | January '18             | January '19                 |
| CMC S108          | EMCO                | 3115                 | Horn Antenna                        | 9811-5622            | June '16                | June '19                    |
| CMC S127          | Schaffner           | HLA6120              | Loop Antenna                        | 1191                 | March '17               | March '20                   |
| CMC S164          | Rohde & Schwarz     | ESU26                | EMC interference receiver           | 100052               | January '18             | January '19                 |
| CMC S227          | Rohde & Schwarz     | ESR7                 | EMI Test Receiver 7GHz              | 101121               | January '18             | January '19                 |
| CMC S260          | CMC                 | Wfr_N                | Shielded Cable                      | Wfr_ant10-1          | November '17            | November '18                |
| CMC S261          | CMC                 | Wfr_N                | Shielded Cable                      | Wfr_ant20-1          | November '17            | November '18                |
| CMC S262          | CMC                 | Wfr_N_fix            | Shielded Cable                      | Wfr_fix32-1          | November '17            | November '18                |
| CMC S263          | CMC                 | Wfr_N_fix            | Shielded Cable                      | Wfr_fix31-1          | November '17            | November '18                |
| CMC S264          | CMC                 | Wfr_N                | Shielded Cable                      | Wfr_ext03-1          | November '17            | November '18                |
| CMC S271          | Schwarzbeck         | BBA 9106 + VHBB 9124 | Biconical Antenna (30-300MHz)       | 831                  | June '16                | June '19                    |
| CMC S287          | Schwarzbeck         | VUSLP 9111B          | Log-periodic Antenna (200 MHz-3GHz) | 9111B-203            | June '16                | June '19                    |
| CMC S288          | CMC                 | W_sma_white          | Joint Shielded Cable                | W_001                | November '17            | November '18                |



## 7. Measurement uncertainty

| Test                                                     | Test Setup | Expanded uncertainty     | Note |
|----------------------------------------------------------|------------|--------------------------|------|
| Conducted emission CISPR 16<br>LISN 50uH 0,009-0,0150MHz | PE001_01   | 3,4 dB                   | 1    |
| Conducted emission CISPR 16<br>LISN 50uH 0,150-30,0MHz   | PE001_01   | 2,8 dB                   | 1    |
| Conducted emission CISPR 16<br>Voltage Probe 0,15-30MHz  | PE001_02   | 2,6 dB                   | 1    |
| Conducted emission CISPR 16<br>Current Probe 0,15-30MHz  | PE001_03   | 2,2 dB                   | 1    |
| Conducted emission CISPR 16<br>ISN 0,15-30MHz            | PE001_04   | 4,5 dB                   | 1    |
| Clic CISPR 16<br>LISN 50uH 0,150-30,0MHz                 | PE001_05   | 3,1 dB                   | 1    |
| Disturbance Power<br>30-300 MHz                          | PE002_01   | 3,4 dB                   | 1    |
| Radiated Emission LAS<br>0,15-30MHz                      | PE003_01   | 1,5 dB                   | 1    |
| Radiated Emission CISPR 16<br>Loop Ant. 0,15-30MHz       | PE004_01   | 3,8 dB                   | 1    |
| Radiated Emission CISPR 16<br>Bicon. Ant. 30-300MHz      | PE004_02   | 3,3 dB                   | 1    |
| Radiated Emission CISPR 16<br>LogP. Ant. 300-1000MHz     | PE004_03   | 3,1 dB                   | 1    |
| Radiated Emission CISPR 16<br>Horn Ant. 1-18GHz          | PE004_04   | 3,6 dB                   | 1    |
| Human Exposure to electromagnetic fields                 | PE005_01   | 15,0 %                   | 1    |
| Harmonic current emissions test                          | PE006_01   | 10 mA + 1,6 %            | 1    |
| Voltage fluctuation and flicker test                     | PE007_01   | 4,2 %                    | 1    |
| Radiated Immunity<br>80MHz-6GHz                          | PE102_XX   | 2,1 dB 0,82 V/m a 3V/m   | 1    |
| Conducted Immunity<br>0,15-230MHz                        | PE105_XX   | 1,2 dB 0,44 V a 3V       | 1    |
| AC Magnetic field                                        | PE106_01   | 1,55 % 0,15 A/m a 10A/m  | 1    |
| Pulse Magnetic field                                     | PE107_01   | 6,24 % 18,7 A/m a 300A/m | 1    |
| Dumped Magnetic field                                    | PE108_01   | 6,24 % 1,87 A/m a 30A/m  | 1    |
| Common mode conducted immunity                           | PE112_01   | 2,20 % 0,22 V a 10V      | 1    |



| Test                                       | Test Setup  | Expanded uncertainty | Note |
|--------------------------------------------|-------------|----------------------|------|
| Power/Spurious<br>9kHz-30MHz               | PR001_01    | 3,8 dB               | 1    |
| Power/Spurious ERP<br>30-1000MHz d=10m     | PR001_02+03 | 4,3 dB               | 1    |
| Misura della potenza EIRP<br>1-18GHz d=3m  | PR001_04    | 4,3 dB               | 1    |
| Misura della potenza EIRP<br>18-40GHz d=3m | PR001_05    | 5,5 dB               | 1    |
| Frequency error                            | PR002_01+02 | < 1x10 <sup>-7</sup> | 1    |
| Timing zero span (1001pts.)                | PR002_01+02 | 0,2 % SWT            | 1    |
| Modulation bandwidth                       | PR002_01+02 | < 1x10 <sup>-7</sup> | 1    |
| Conducted RF power and spurious emission   | PR002_01+02 | 1,2 dB               | 1    |
| Adjacent channel power                     | PR002_01+02 | 1,2 dB               | 1    |
| Blocking                                   | PR002_01+02 | 1,2 dB               | 1    |

| Test                                             | Test Setup | Expanded uncertainty | Note |
|--------------------------------------------------|------------|----------------------|------|
| Electrostatic discharge immunity test            | PE101_0X   |                      | 2    |
| Electrical fast transients / burst immunity test | PE103_0X   |                      | 2    |
| Surge immunity test                              | PE104_0X   |                      | 2    |
| Short interruption immunity test                 | PE109_01   |                      | 2    |
| Rev_18_01 date 30/01/2018                        |            |                      |      |

**Note 1:**

The expanded uncertainty reported according to EN55016-4-2:2011 is based on a standard uncertainty multiplied by a coverage factor of K=2, providing a level of confidence of p = 95%

**Note 2:**

It has been demonstrated that the used test equipment meets the specified requirements in the standard with at least a 95% confidence, covering factor k = 2



## 8. Reference documents

| Reference no.                                      | Description                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FCC Rules and Regulation Title 47 part 15:2017     | --                                                                                                                                                               |
| ANSI C63.4:2014                                    | American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz |
| Internal Procedure PM001 rev. 3.0 (Quality Manual) | Measure procedure                                                                                                                                                |
| Internal procedure INC_M rev. 9.0 (Quality Manual) | Measurement uncertainty calculation                                                                                                                              |



## 9. Deviation from test specification

None

## 10. Test case verdicts

Test case does not apply to the test object ..... : N.A.

Test item does meet the requirement ..... : Complies

Test item does not meet the requirement ..... : Does not comply

Test not performed ..... : N.E.



## 11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC\_M rev. 9.0.

*Judgement of compliance:*

| Case 1                                                                                                            | Case 2                                                                                                                                                   | Case 3                                                                                                                                               | Case 4                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|                                                                                                                   |                                                                                                                                                          |                                                                                                                                                      |                                                                                                                    |
| The sample complies with the requirement.                                                                         | The sample complies with the requirement.                                                                                                                | The sample does not comply with the requirement.                                                                                                     | The sample does not comply with the requirement.                                                                   |
| The measurement results is within the specification limit when the measurement uncertainty is taken into account. | It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty although the measurement result is below the limit. | It is not possible to state compliance using a 95% coverage probability for the expanded uncertainty also the measurement result is upper the limit. | The measurement results is outside the specification limit when the measurement uncertainty is taken into account. |

In agreement with ILAC-G8: 03/2009 Guidelines on the Reporting of Compliance with Specification.



## 11.1 Continuous disturbance voltage test (150 kHz – 30 MHz)

### Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.107
- Internal procedure PM001
- See clause 4 of this test report

### Test configuration and test method

Test site:  
Shielded chamber

Auxiliary equipment:  
See clause 4 of this test report

### EUT exercising

See clause 4 of this test report

### Test equipment used

CMC S010, CMC S200, CMC S227  
Measurement uncertainty: See clause 7 of this test report

### Test specification

Port: Mains terminal  
Frequency range: 150 kHz – 30 MHz

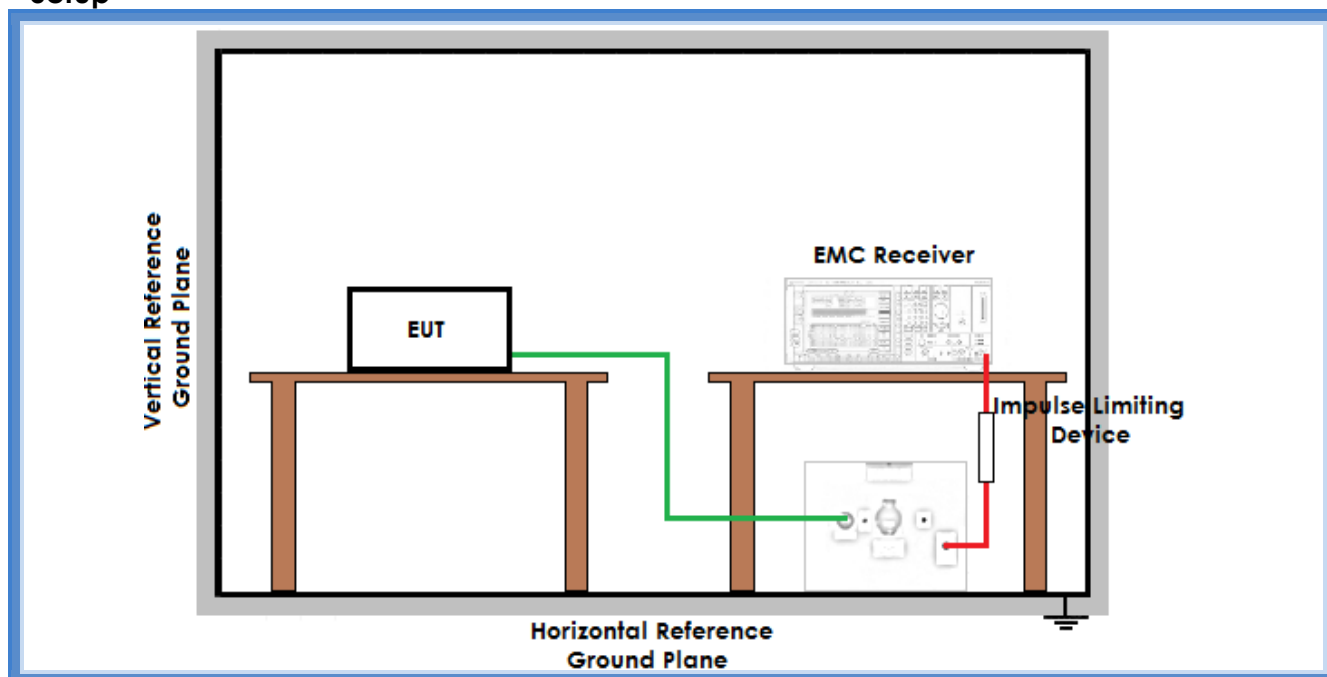
### Acceptance limits

| Limits for class A equipment |                   |                |
|------------------------------|-------------------|----------------|
| Frequency range (MHz)        | dB(μV) Quasi-peak | dB(μV) Average |
| 0,15 to 0,50                 | 79                | 66             |
| 0,5 to 5                     | 73                | 60             |
| 5 to 30                      | 73                | 60             |

| Limits for class B equipment |                   |                |
|------------------------------|-------------------|----------------|
| Frequency range (MHz)        | dB(μV) Quasi-peak | dB(μV) Average |
| 0,15 to 0,50                 | 66 to 56          | 56 to 46       |
| 0,5 to 5                     | 56                | 46             |
| 5 to 30                      | 60                | 50             |



## Setup



## Result

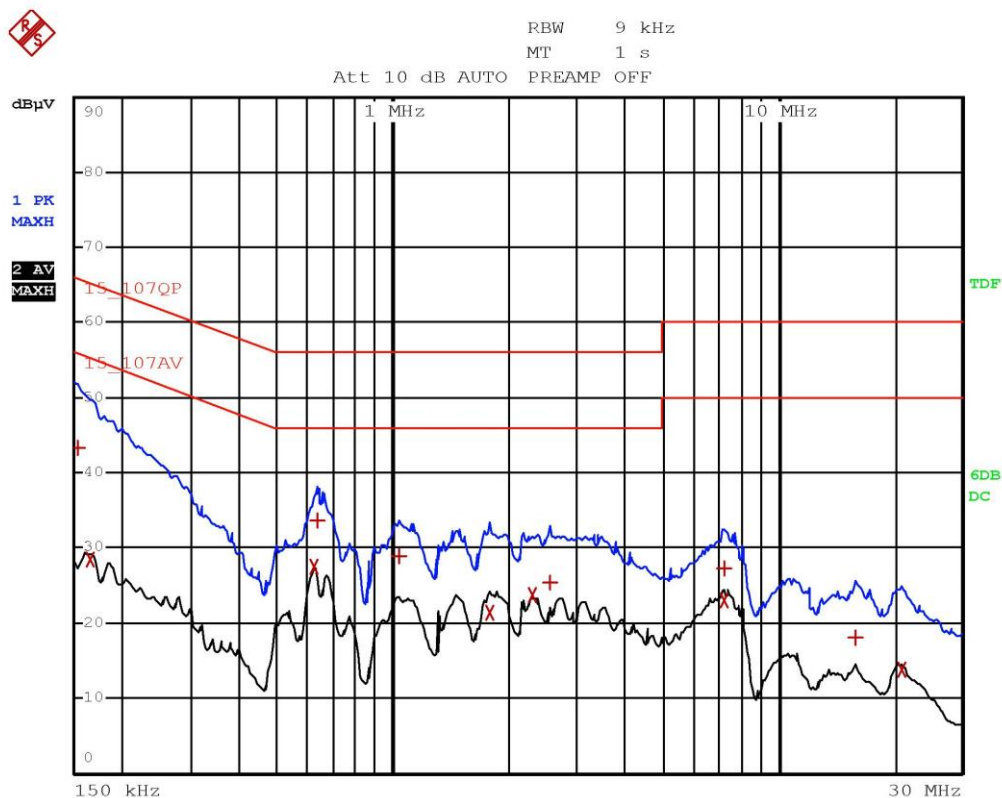
| Line        | Graphs    | Remarks | Result   |
|-------------|-----------|---------|----------|
| L1          | G18175307 | --      | Complies |
| N           | G18175308 | --      | Complies |
| Remarks: -- |           |         |          |

### Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +  
AV: Average; AV [1s] (average at 1 second) values are marked with a X



## Graphs

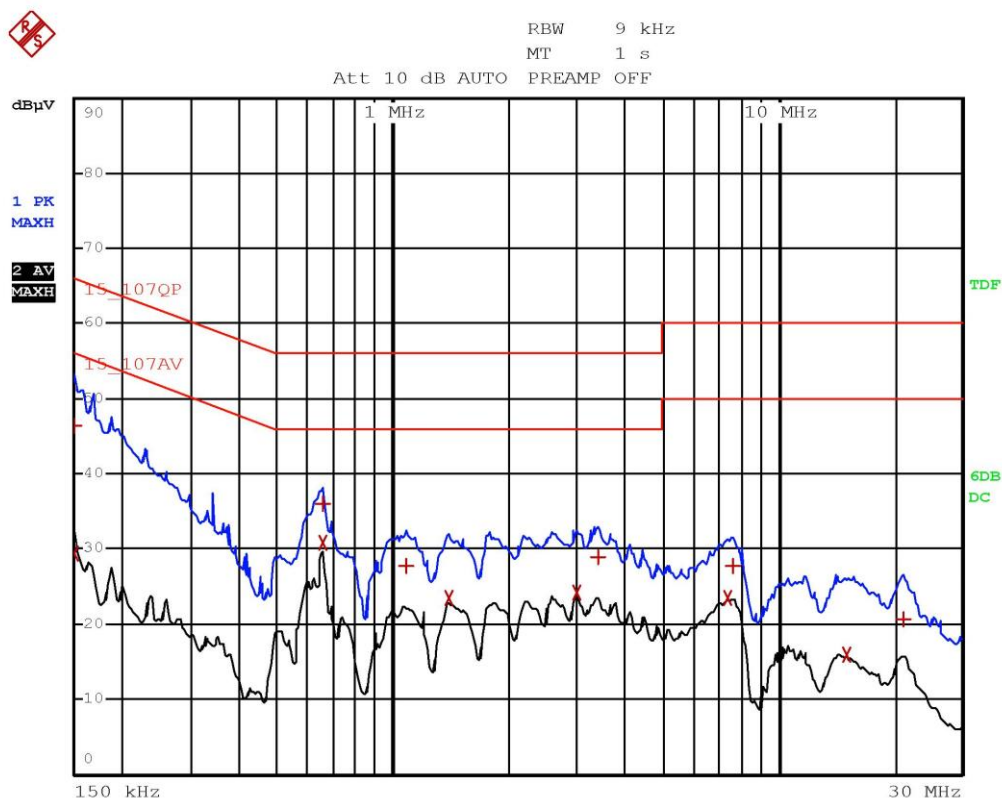


Segalla 18175307-Line L



| EDIT PEAK LIST (Final Measurement Results) |            |            |                |
|--------------------------------------------|------------|------------|----------------|
| Trace1:                                    | 15_107QP   |            |                |
| Trace2:                                    | 15_107AV   |            |                |
| Trace3:                                    | ---        |            |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV | DELTA LIMIT dB |
| 1 Quasi Peak                               | 154 kHz    | 43.29      | -22.48         |
| 2 Average                                  | 166 kHz    | 28.54      | -26.61         |
| 2 Average                                  | 622 kHz    | 27.51      | -18.48         |
| 1 Quasi Peak                               | 638 kHz    | 33.63      | -22.36         |
| 1 Quasi Peak                               | 1.042 MHz  | 28.97      | -27.02         |
| 2 Average                                  | 1.79 MHz   | 21.28      | -24.71         |
| 2 Average                                  | 2.298 MHz  | 23.62      | -22.37         |
| 1 Quasi Peak                               | 2.562 MHz  | 25.37      | -30.62         |
| 1 Quasi Peak                               | 7.21 MHz   | 27.25      | -32.74         |
| 2 Average                                  | 7.218 MHz  | 22.97      | -27.02         |
| 1 Quasi Peak                               | 15.906 MHz | 18.04      | -41.95         |
| 2 Average                                  | 20.898 MHz | 13.73      | -36.26         |

Segalla 18175307-Line L



Segalla 18175308-Line N



| EDIT PEAK LIST (Final Measurement Results) |            |            |                |
|--------------------------------------------|------------|------------|----------------|
| Trace1:                                    | 15_107QP   |            |                |
| Trace2:                                    | 15_107AV   |            |                |
| Trace3:                                    | ---        |            |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV | DELTA LIMIT dB |
| 1 Quasi Peak                               | 150 kHz    | 46.32      | -19.68         |
| 2 Average                                  | 150 kHz    | 29.40      | -26.59         |
| 1 Quasi Peak                               | 654 kHz    | 36.03      | -19.96         |
| 2 Average                                  | 654 kHz    | 30.74      | -15.26         |
| 1 Quasi Peak                               | 1.082 MHz  | 27.75      | -28.24         |
| 2 Average                                  | 1.394 MHz  | 23.41      | -22.58         |
| 2 Average                                  | 2.994 MHz  | 24.24      | -21.75         |
| 1 Quasi Peak                               | 3.398 MHz  | 28.86      | -27.14         |
| 2 Average                                  | 7.398 MHz  | 23.41      | -26.58         |
| 1 Quasi Peak                               | 7.65 MHz   | 27.85      | -32.14         |
| 2 Average                                  | 15.026 MHz | 15.94      | -34.05         |
| 1 Quasi Peak                               | 21.158 MHz | 20.60      | -39.39         |

Segalla 18175308-Line N

**Result:** The requirements are met



## 11.2 Radiated disturbance test

### Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.109
- 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 S127, CMC S164, CMC S271, CMC S287  
Measurement uncertainty: See clause 7 of this test report

### Test specification

Port: Enclosure  
Frequency range: 30 MHz – 6000 MHz  
Antenna polarization: Horizontal (H) – Vertical (V)  
EUT – Antenna distance:  
10 m for frequencies  $\leq$  1000 MHz  
3 m for frequencies  $>$  1000 MHz

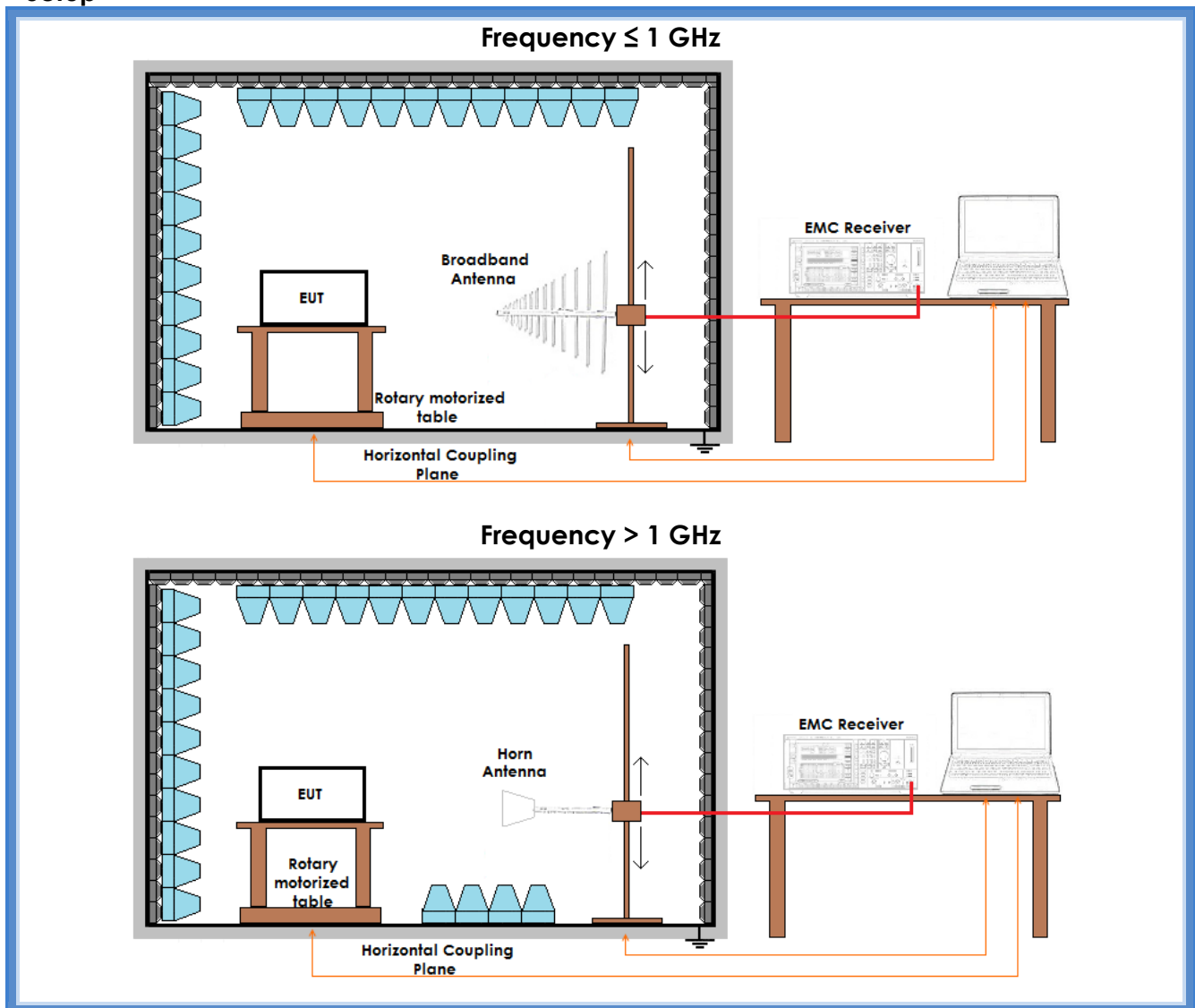
### Acceptance limits

| Class A radiated limits |                         |
|-------------------------|-------------------------|
| Frequency range (MHz)   | Limits [dB( $\mu$ V/m)] |
| 30 to 88                | 39,08                   |
| 88 to 216               | 43,52                   |
| 216 to 960              | 46,44                   |
| Above 960               | 49,54                   |

| Class B radiated limits |                         |
|-------------------------|-------------------------|
| Frequency range (MHz)   | Limits [dB( $\mu$ V/m)] |
| 30 to 88                | 40                      |
| 88 to 216               | 43,52                   |
| 216 to 960              | 46,02                   |
| Above 960               | 53,98                   |



## Setup



## Result

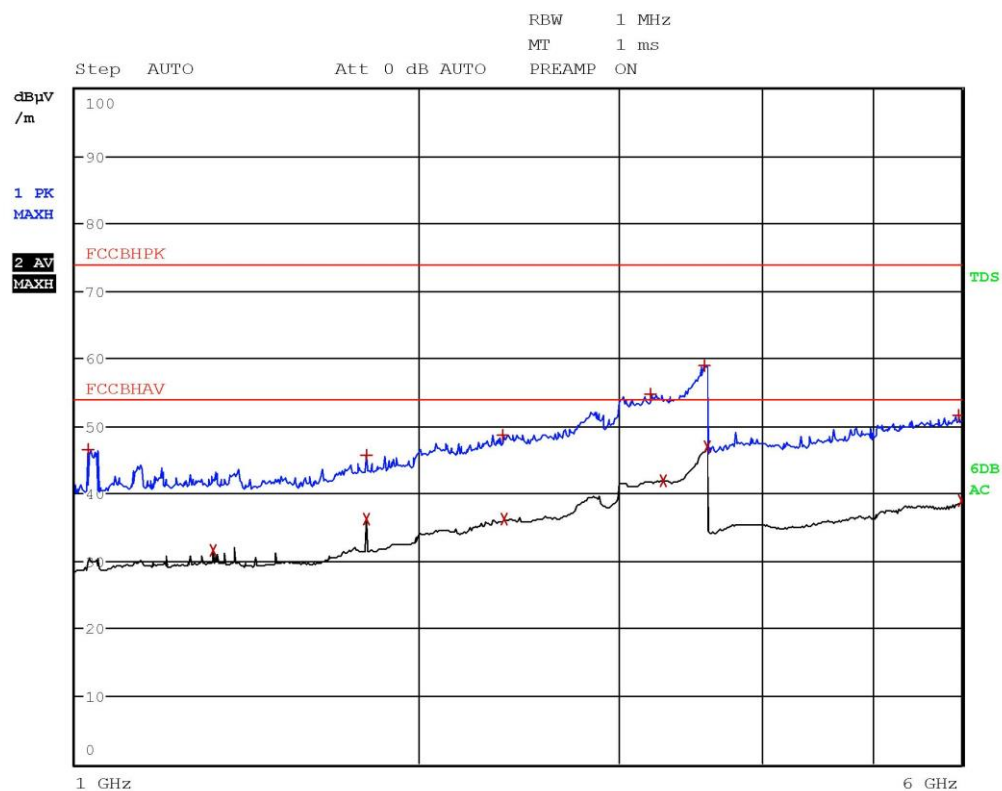
| Polarization | Frequency Range (MHz) | Graphs    | Remarks | Result   |
|--------------|-----------------------|-----------|---------|----------|
| V            | 1000 – 6000           | G18175301 | --      | Complies |
| H            | 1000 – 6000           | G18175302 | --      | Complies |
| V            | 300 – 1000            | G18175303 | --      | Complies |
| H            | 300 – 1000            | G18175304 | --      | Complies |
| H            | 30 – 300              | G18175305 | --      | Complies |
| V            | 30 – 300              | G18175306 | --      | Complies |
| Remarks: --  |                       |           |         |          |

### Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +  
AV: Average; AV [1s] (average at 1 second) values are marked with a x



## Graphs

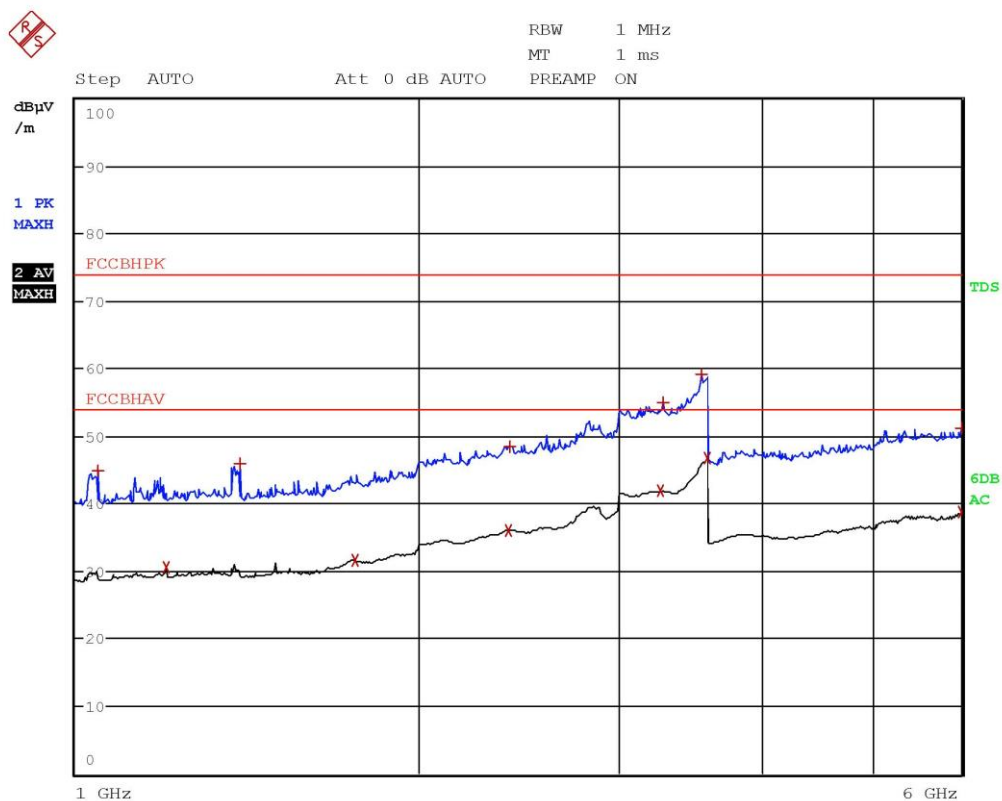


Segalla 18175301-Vert (1000-6000MHz)



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.0272 GHz | 46.43        | -27.55         |
| 2 Average                        | 1.32 GHz   | 31.71        | -22.26         |
| 1 Max Peak                       | 1.8 GHz    | 45.77        | -28.20         |
| 2 Average                        | 1.8 GHz    | 36.33        | -17.64         |
| 1 Max Peak                       | 2.3744 GHz | 48.71        | -25.26         |
| 2 Average                        | 2.3796 GHz | 36.30        | -17.67         |
| 1 Max Peak                       | 3.2016 GHz | 54.63        | -19.34         |
| 2 Average                        | 3.286 GHz  | 41.89        | -12.08         |
| 1 Max Peak                       | 3.5652 GHz | 58.88        | -15.09         |
| 2 Average                        | 3.5988 GHz | 46.86        | -7.11          |
| 1 Max Peak                       | 5.9712 GHz | 51.55        | -22.42         |
| 2 Average                        | 5.9984 GHz | 38.88        | -15.09         |

Segalla 18175301-Vert(1000-6000MHz)

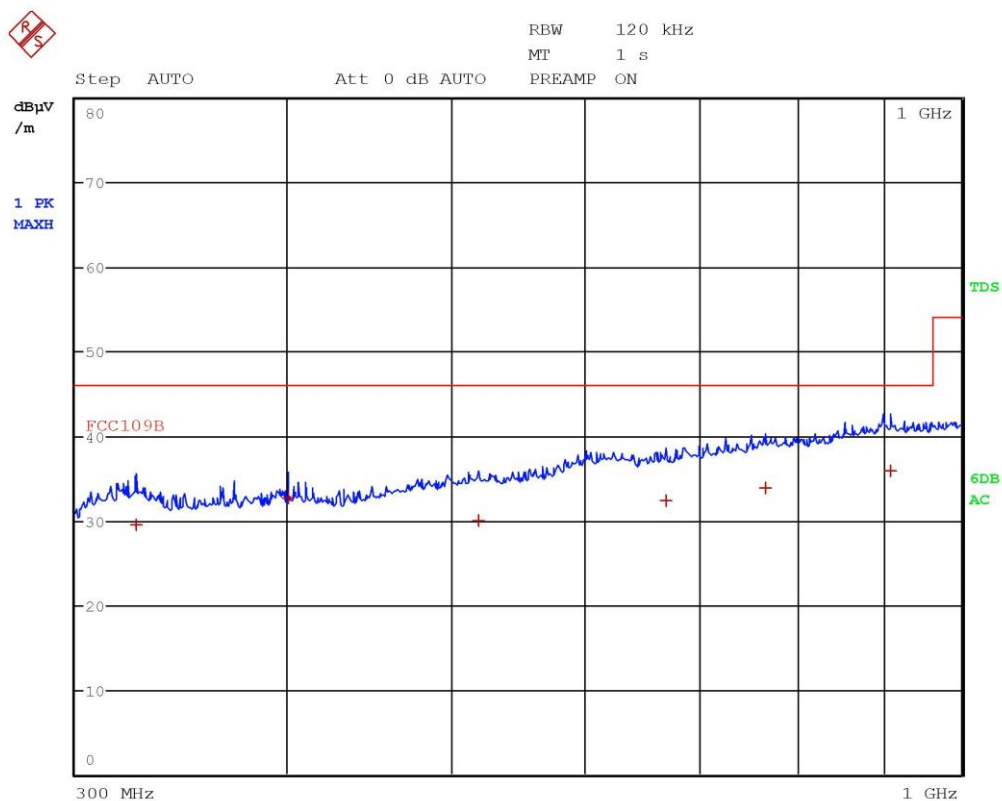


Segalla 18175302-Horiz(1000-6000MHz)



| EDIT PEAK LIST (Prescan Results) |            |              |                |
|----------------------------------|------------|--------------|----------------|
| Trace1:                          | FCCBHPK    |              |                |
| Trace2:                          | FCCBHAV    |              |                |
| Trace3:                          | ---        |              |                |
| TRACE                            | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Max Peak                       | 1.0452 GHz | 44.78        | -29.19         |
| 2 Average                        | 1.2 GHz    | 30.66        | -23.31         |
| 1 Max Peak                       | 1.3948 GHz | 45.92        | -28.06         |
| 2 Average                        | 1.762 GHz  | 31.63        | -22.34         |
| 2 Average                        | 2.4024 GHz | 36.09        | -17.88         |
| 1 Max Peak                       | 2.408 GHz  | 48.42        | -25.55         |
| 2 Average                        | 3.2616 GHz | 41.87        | -12.10         |
| 1 Max Peak                       | 3.2852 GHz | 54.91        | -19.06         |
| 1 Max Peak                       | 3.5504 GHz | 59.06        | -14.91         |
| 2 Average                        | 3.5996 GHz | 46.84        | -7.13          |
| 1 Max Peak                       | 5.9972 GHz | 51.15        | -22.82         |
| 2 Average                        | 5.9972 GHz | 38.81        | -15.16         |

Segalla 18175302-Horiz(1000-6000MHz)

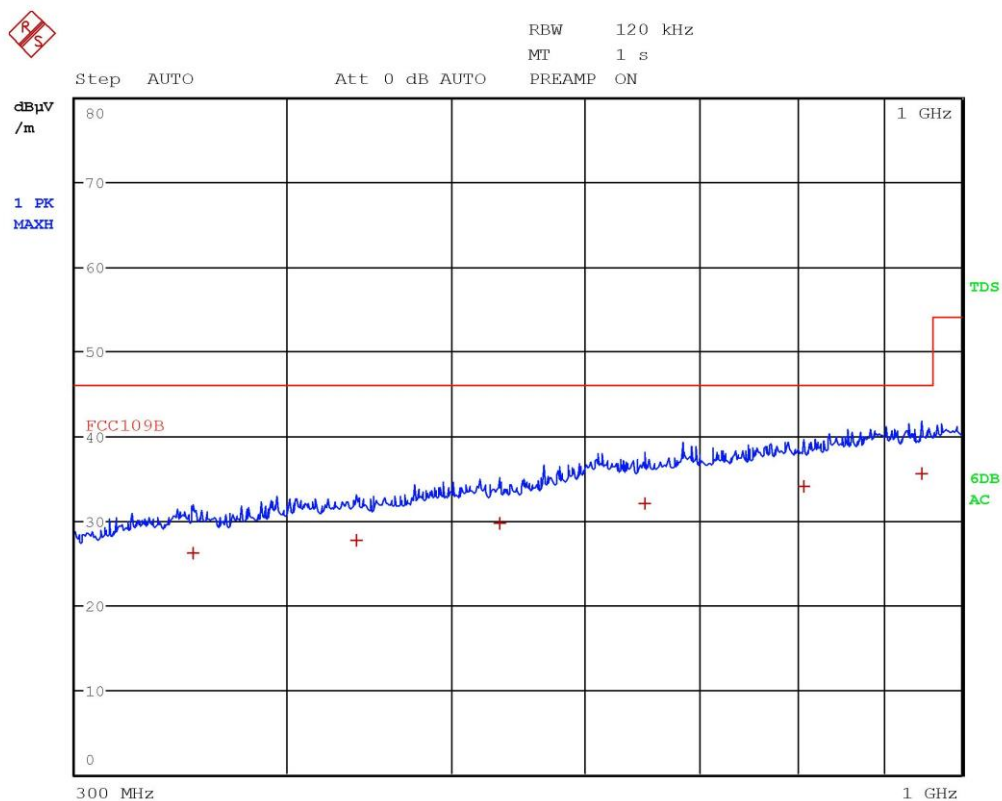


Segalla 18175303-Vert (300-1000MHz)



| EDIT PEAK LIST (Final Measurement Results) |            |              |                |
|--------------------------------------------|------------|--------------|----------------|
| Trace1:                                    | FCC109B    |              |                |
| Trace2:                                    | ---        |              |                |
| Trace3:                                    | ---        |              |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Quasi Peak                               | 326 MHz    | 29.49        | -16.52         |
| 1 Quasi Peak                               | 400.88 MHz | 32.62        | -13.39         |
| 1 Quasi Peak                               | 518.64 MHz | 29.99        | -16.02         |
| 1 Quasi Peak                               | 669.36 MHz | 32.42        | -13.60         |
| 1 Quasi Peak                               | 766.4 MHz  | 33.86        | -12.15         |
| 1 Quasi Peak                               | 908.16 MHz | 35.91        | -10.10         |

Segalla 18175303-Vert (300-1000MHz)

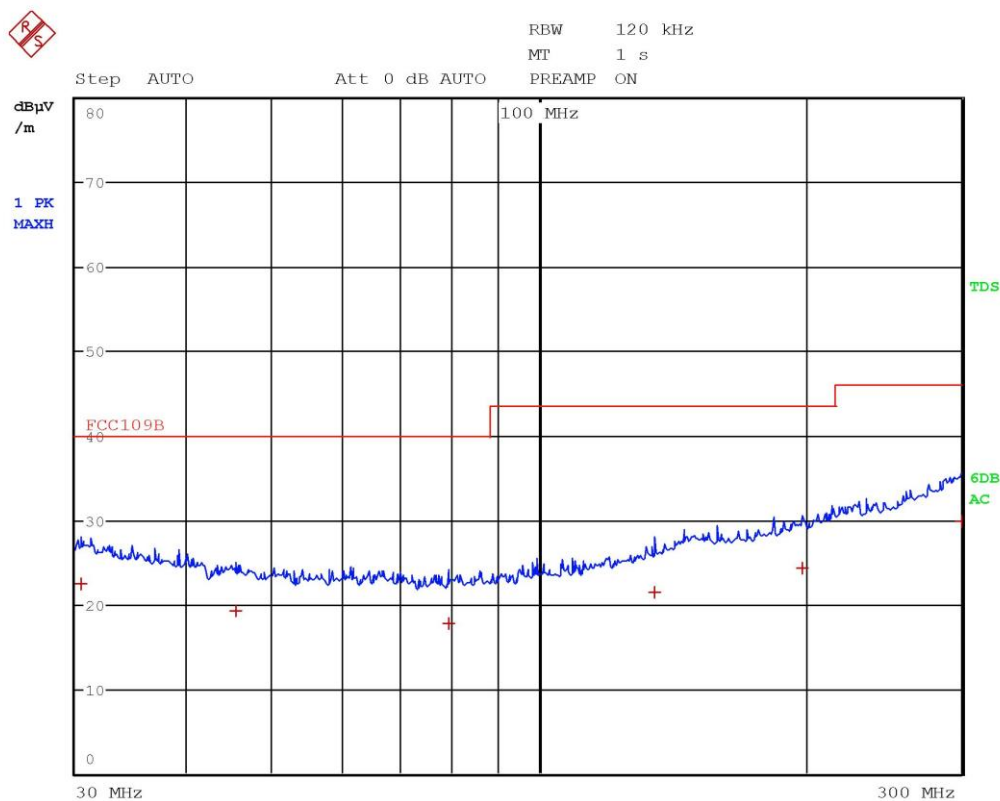


Segalla 18175304-Horiz(300-1000MHz)



| EDIT PEAK LIST (Final Measurement Results) |            |              |                |
|--------------------------------------------|------------|--------------|----------------|
| Trace1:                                    | FCC109B    |              |                |
| Trace2:                                    | ---        |              |                |
| Trace3:                                    | ---        |              |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Quasi Peak                               | 352.08 MHz | 26.18        | -19.83         |
| 1 Quasi Peak                               | 439.76 MHz | 27.67        | -18.34         |
| 1 Quasi Peak                               | 534 MHz    | 29.60        | -16.41         |
| 1 Quasi Peak                               | 649.76 MHz | 32.07        | -13.94         |
| 1 Quasi Peak                               | 807.88 MHz | 34.04        | -11.97         |
| 1 Quasi Peak                               | 946.64 MHz | 35.56        | -10.45         |

Segalla 18175304-Horiz(300-1000MHz)

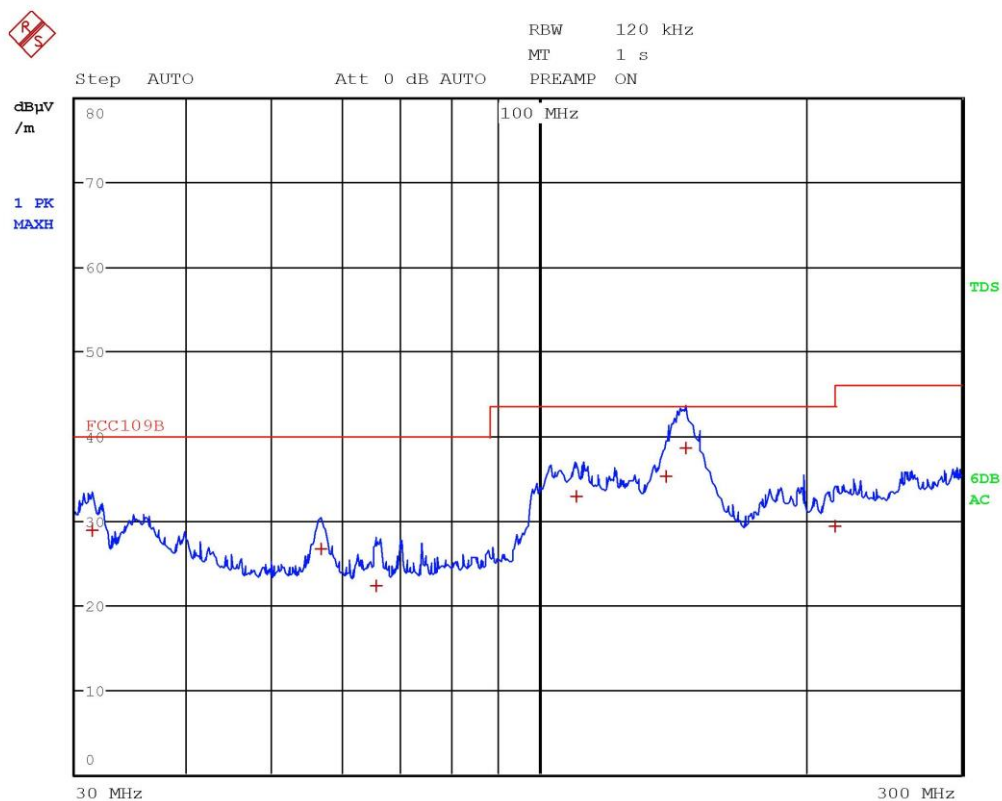


Segalla 18175305-Horiz(30-300MHz)



| EDIT PEAK LIST (Final Measurement Results) |            |              |                |
|--------------------------------------------|------------|--------------|----------------|
| Trace1:                                    | FCC109B    |              |                |
| Trace2:                                    | ---        |              |                |
| Trace3:                                    | ---        |              |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Quasi Peak                               | 30.36 MHz  | 22.46        | -17.53         |
| 1 Quasi Peak                               | 45.56 MHz  | 19.27        | -20.72         |
| 1 Quasi Peak                               | 79.28 MHz  | 17.71        | -22.28         |
| 1 Quasi Peak                               | 135.08 MHz | 21.36        | -22.15         |
| 1 Quasi Peak                               | 198.6 MHz  | 24.36        | -19.15         |
| 1 Quasi Peak                               | 299.6 MHz  | 29.78        | -16.23         |

Segalla 18175305-Horiz(30-300MHz)



Segalla 18175306-Vert (30-300MHz)



| EDIT PEAK LIST (Final Measurement Results) |            |              |                |
|--------------------------------------------|------------|--------------|----------------|
| Trace1:                                    | FCC109B    |              |                |
| Trace2:                                    | ---        |              |                |
| Trace3:                                    | ---        |              |                |
| TRACE                                      | FREQUENCY  | LEVEL dBμV/m | DELTA LIMIT dB |
| 1 Quasi Peak                               | 31.28 MHz  | 28.88        | -11.11         |
| 1 Quasi Peak                               | 56.76 MHz  | 26.59        | -13.40         |
| 1 Quasi Peak                               | 65.44 MHz  | 22.21        | -17.78         |
| 1 Quasi Peak                               | 110.44 MHz | 32.82        | -10.69         |
| 1 Quasi Peak                               | 139 MHz    | 35.13        | -8.38          |
| 1 Quasi Peak                               | 146.84 MHz | 38.57        | -4.94          |
| 1 Quasi Peak                               | 215.64 MHz | 29.29        | -14.23         |

Segalla 18175306-Vert (30-300MHz)

**Result:** The requirements are met