



TEST REPORT nr. R19118001

Federal Communication Commission (FCC)

Test item

Description: BLED MODULE
Trademark: DIXELL
Model/Type: BLEDIX001
FCC ID: ZG5BLEDIX001

Test Specification

Standard: FCC Rules & Regulations, Title 47:2018
Part 15 paragraph(s): 203, 207, 209 and 247

Client's name: DIXELL S.r.l.

Address: Via dell'Industria, 27 – 32016 Alpago (BL) – ITALY

Manufacturer's name : Same as client

Address: --

Report

Tested by: G. Gandini

Giovanni Gandini

Approved by: R. Beghetto – Laboratory Manager

R. Beghetto

Date of issue: 17.10.19

Contents: 102 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.



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1. Summary

Standard:

FCC Rules & Regulations, Title 47:2018
Part 15 paragraph(s): 203, 207, 209 and 247

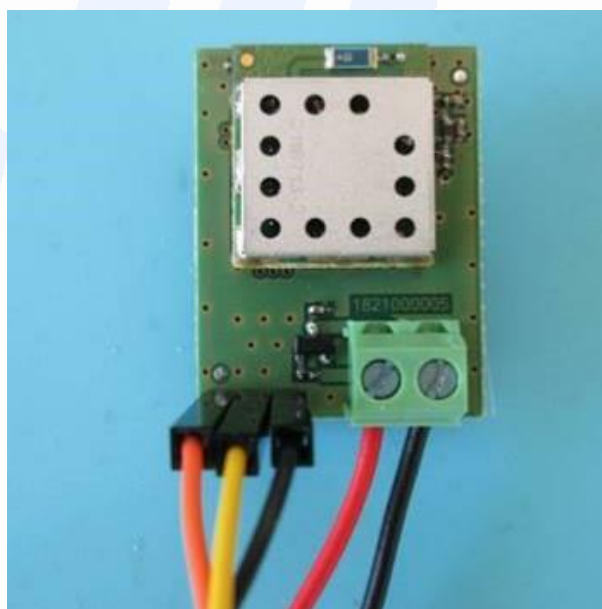
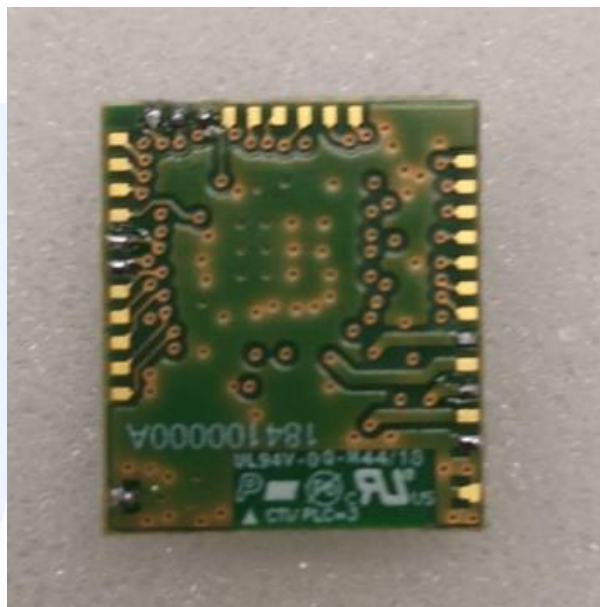
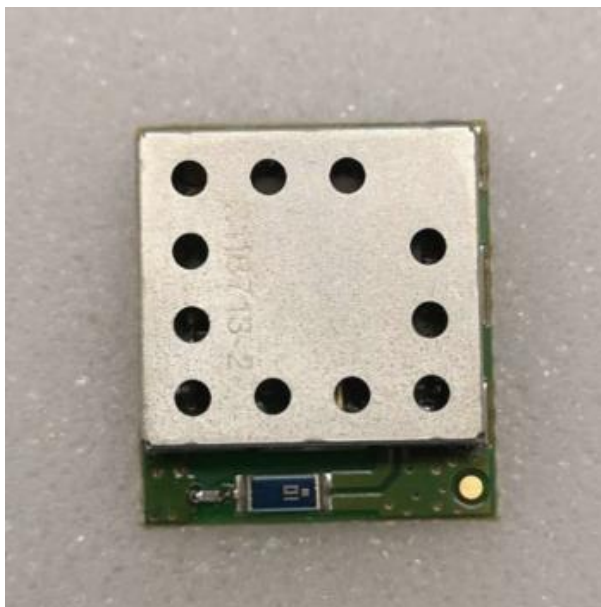
Test specifications	Environmental Phenomena	Tests sequence	Result
Part 15.203	Antenna requirements	1	Complies
Part 15.207	Conducted emissions	2	Complies
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	3	Complies
Part 15.247 (a) (2)	DTS bandwidth	4	Complies
Part 15.247 (d)	Band edge	5	Complies
Part 15.209 and 15.247	Fundamental emission output power	6	Complies
Part 15.209 and 15.247	Maximum power spectral density level in the fundamental emission	7	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



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 '19	January '20
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '19	June '22
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '18	November '21
CMC S136	Schwarzbeck	VULB 9163	Broadband Antenna	9163-205	June '19	June '22
CMC S164	Rohde & Schwarz	ESU26	EMC interference receiver	100052	January '19	January '20
CMC S200	Schwarzbeck	NSLK 8128	V-LISN	8128-273	January '19	January '20
CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver	100781	January '19	January '20
CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)	733	July '16	July '19
CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz	104059	November '16	November '19



7. Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_01	3,0 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30MHz	PE001_02	2,9 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30MHz	PE001_03	2,6 dB	1
Conducted emission CISPR 16 ISN 0,15-30MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0MHz	PE001_05	3,1 dB	1
Disturbance Power 30-300 MHz	PE002_01	3,6 dB	1
Radiated Emission LAS 0,15-30MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30MHz	PE004_01	4,0 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300MHz	PE004_02	3,9 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000MHz	PE004_03	3,8 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18GHz	PE004_04	4,2 dB	1
Human Exposure to electromagnetic fields	PE005_01	23,6 %	1
Harmonic current emissions test	PE006_01	10 mA + 2,6 %	1
Voltage fluctuation and flicker test	PE007_01	4,8 %	1
Radiated Immunity 80MHz-6GHz	PE102_XX	2,1 dB 0,82 V/m a 3V/m	1
Conducted Immunity 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	6,25 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,25 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,21 % 0,22 V a 10V	1



Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,0 dB	1
Power/Spurious ERP 30-1000MHz d=10m	PR001_02+03	4,7 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_04	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_05	5,4 dB	1
Frequency error	PR002_01+02	$< 1 \times 10^{-7}$	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	$< 1 \times 10^{-7}$	1
Conducted RF power and spurious emission	PR002_01+02	1,1 dB	1
Adjacent channel power	PR002_01+02	1,1 dB	1
Blocking	PR002_01+02	1,1 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_19_02 date 27/03/2019			

Note 1:

The expanded uncertainty reported according to the document EA-4-02 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 15:2018	--
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
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r01	Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC rules
Internal Procedure PM001 rev. 3.0 (Quality Manual)	Measure Procedure
Internal procedure INC_M rev. 9.1 (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.

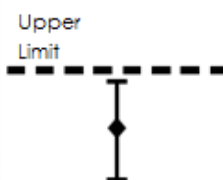
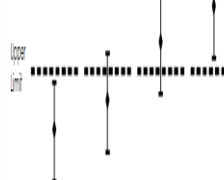
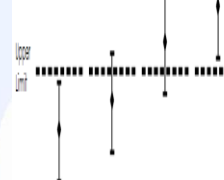
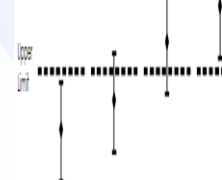


11. Results

In this clause tests results are reported.

Measurement uncertainty is in accordance with document CMC INC_M rev. 9.1.

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 Antenna requirements

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.203
- 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

--
Measurement uncertainty: See clause 7 of this test report

Test specification

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31 (d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded

Environmental conditions

Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
23	100	42

Results

Antenna Type	External R.F. power amplifier	Gain	Remarks
Integrated antenna	Not Present	1 dBi	--

Result: The requirements are met



11.2 Conducted emissions

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part 15.207
- ANSI C63.10 cl. 6.2
- 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 S206
Measurement uncertainty: See clause 7 of this test report

Test specification

Port: Main port
Frequency range: 150 kHz – 30 MHz
EUT – LISN distance: 80 cm
EUT – reference ground plane distance: 40 cm

Environmental conditions

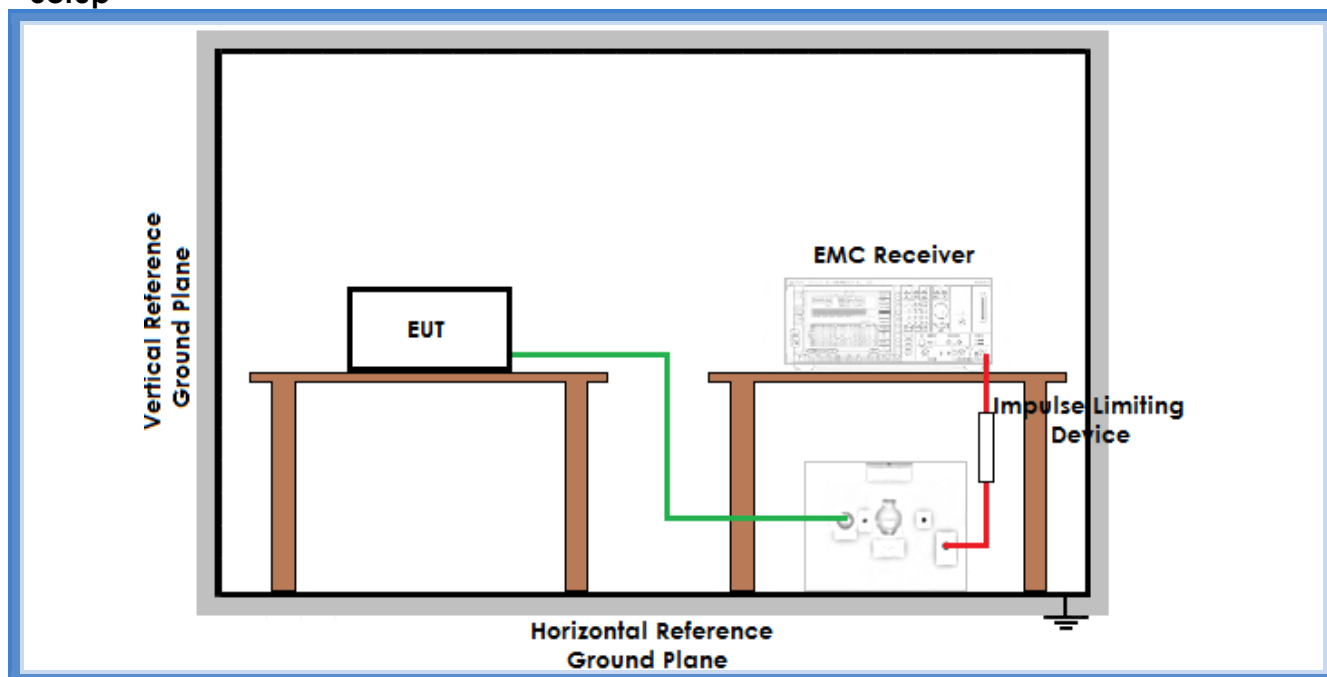
Temperature (°C)	Atmospheric pressure (kPa)	Relative humidity (%)
21	98	46

Acceptance limits

Frequency range (MHz)	dB(μV) Quasi-peak	dB(μV) Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50



Setup



Result

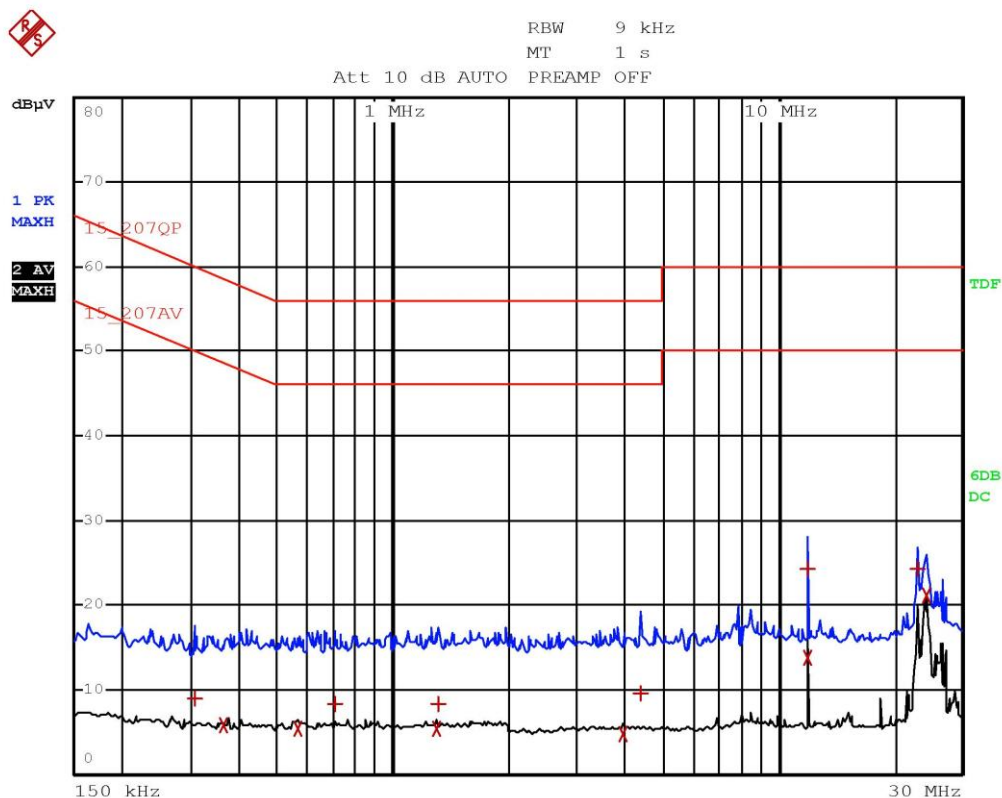
Line	Graphs	Remarks	Result
L1	G191180100	--	Complies
N	G191180101	--	Complies
Remarks: Tests performed on 120 Vac side of power unit			

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

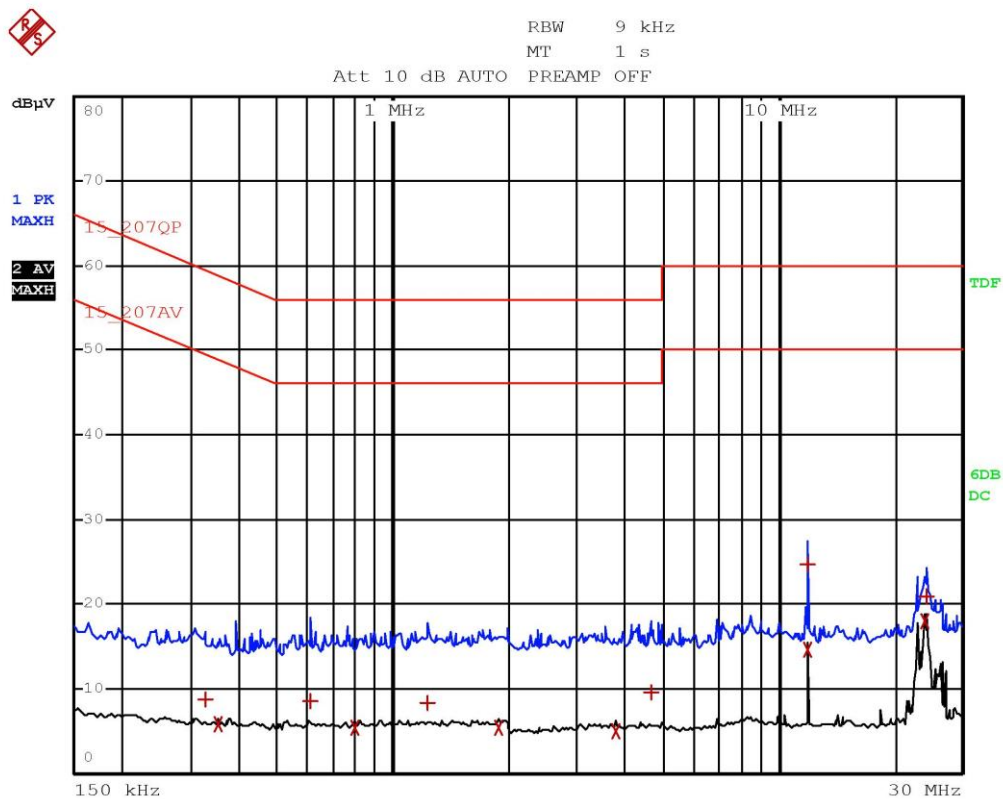


Gandini 191180100-Line L(120Vac)-Tx



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	306 kHz	8.84	-51.23
2 Average	362 kHz	5.67	-43.00
2 Average	566 kHz	5.45	-40.54
1 Quasi Peak	706 kHz	8.22	-47.77
2 Average	1.296 MHz	5.38	-40.61
1 Quasi Peak	1.312 MHz	8.22	-47.77
2 Average	3.944 MHz	4.82	-41.17
1 Quasi Peak	4.42 MHz	9.65	-46.35
1 Quasi Peak	11.936 MHz	24.17	-35.82
2 Average	11.936 MHz	13.69	-36.30
1 Quasi Peak	23.128 MHz	24.20	-35.79
2 Average	24.352 MHz	21.06	-28.94

Gandini 191180100-Line L(120Vac)-Tx



Gandini 191180101-Line N(120Vac)-Tx



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	326 kHz	8.75	-50.79
2 Average	350 kHz	5.77	-43.19
1 Quasi Peak	610 kHz	8.40	-47.59
2 Average	794 kHz	5.34	-40.65
1 Quasi Peak	1.228 MHz	8.22	-47.77
2 Average	1.876 MHz	5.45	-40.54
2 Average	3.796 MHz	4.89	-41.10
1 Quasi Peak	4.672 MHz	9.52	-46.47
1 Quasi Peak	11.944 MHz	24.75	-35.24
2 Average	11.944 MHz	14.66	-35.33
2 Average	23.916 MHz	18.00	-31.99
1 Quasi Peak	24.352 MHz	20.85	-39.14

Gandini 191180101-Line N(120Vac)-Tx

Result: The requirements are met



11.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Test set-up and execution

- FCC Rules and Regulation; Titles 47 Part. 15.209 and 15.247 (d)
- KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.5 and 8.6
- ANSI C63.10 cl. 11.11 and 11.12.1
- Internal procedure PM001
- See clause 4 of this test report
- Test date: February 16th, 2019
- Technician: G. Gandini

Test configuration

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 S136, CMC S164,
CMC S290
Measurement uncertainty: See clause 7 of this
test report

Test specification

Port: Enclosure
Frequency range: 0,009 MHz – 26000 MHz
Antenna polarization: Horizontal (H) – Vertical (V)
EUT height about the floor:
80 cm for frequencies ≤ 1000 MHz
150 cm for frequencies > 1000 MHz
EUT – Antenna distance:
10 m for frequencies ≤ 1000 MHz
3 m for frequencies > 1000 MHz

Environmental conditions

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



Acceptance limits

Frequency range (MHz)	Test distance (m)	Limits [dB(μV/m)]
0,009 to 0,490	300	48,5 to 13,8
0,490 to 1,705	30	33,8 to 22,9
1,705 to 30	30	29,5
30 to 88	3	40
88 to 216	3	43,5
216 to 960	3	46,0
Above 960	3	54,0

Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

Acceptance limits for emissions in restricted frequency bands (according FCC Part 15.209)

Frequency (MHz)	Test distance (m)	AV limits [dB(μV/m)]	Peak limits [dB(μV/m)]
> 1000	3	54	74

Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

The restricted frequency bands are listed in the following table (according to FCC Part 15.205)

MHz	MHz	MHz	GHz
0,09 – 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
8,41425 – 8,41475	162,0125 – 167,17	3260 – 3267	23,6 – 24
12,29 – 12,293	167,72 – 173,2	3332 – 3339	31,2 – 31,8
12,57675 – 12,57725	322 – 335,4	3600 – 4400	Above 38,6
13,36 – 13,41			

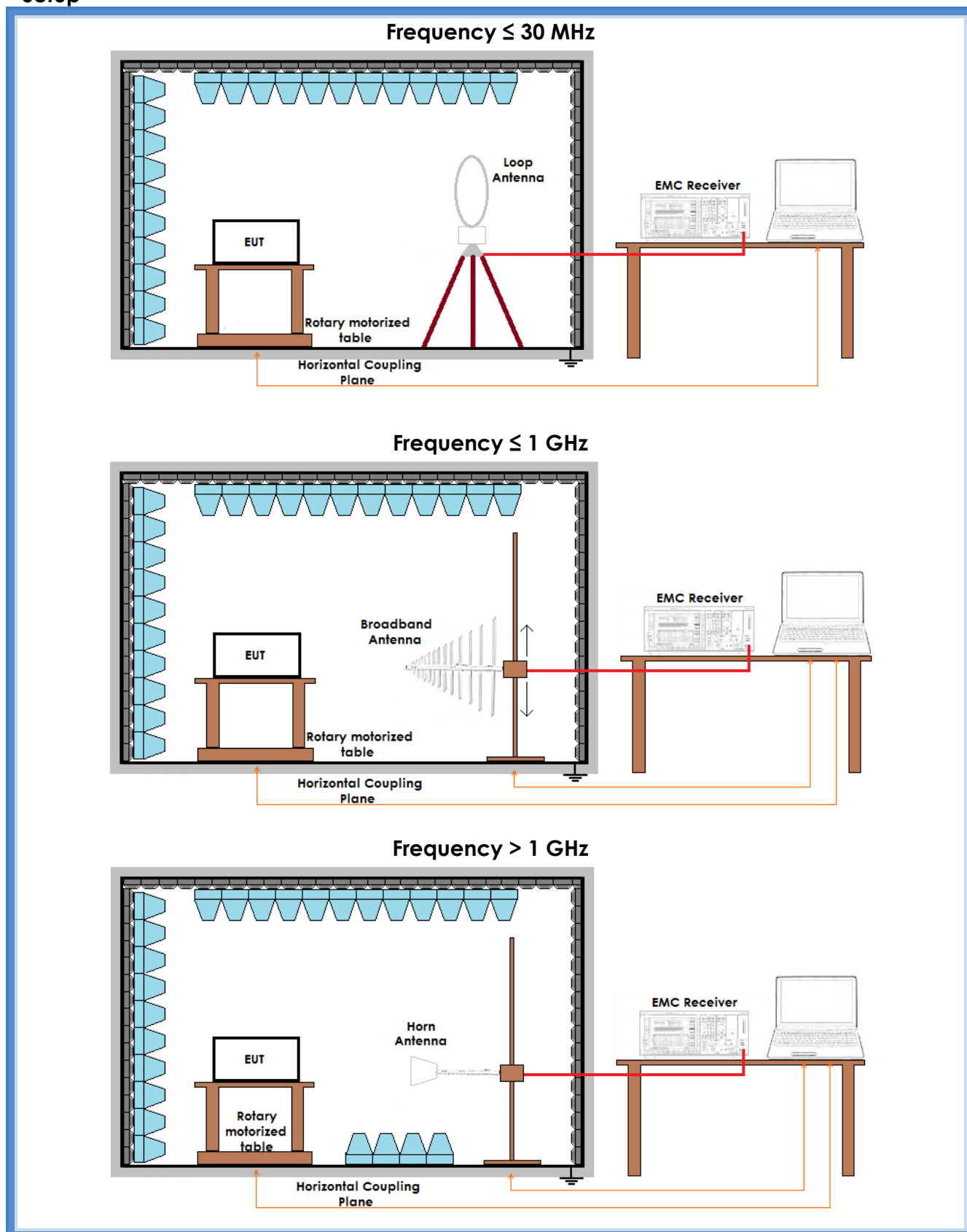


Acceptance limits for emissions in non-restricted frequency bands (according to ANSI C63.10 cl. 11.11.1)

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required

Setup



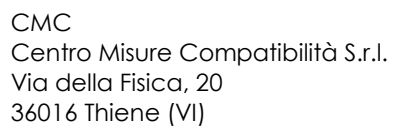


Result

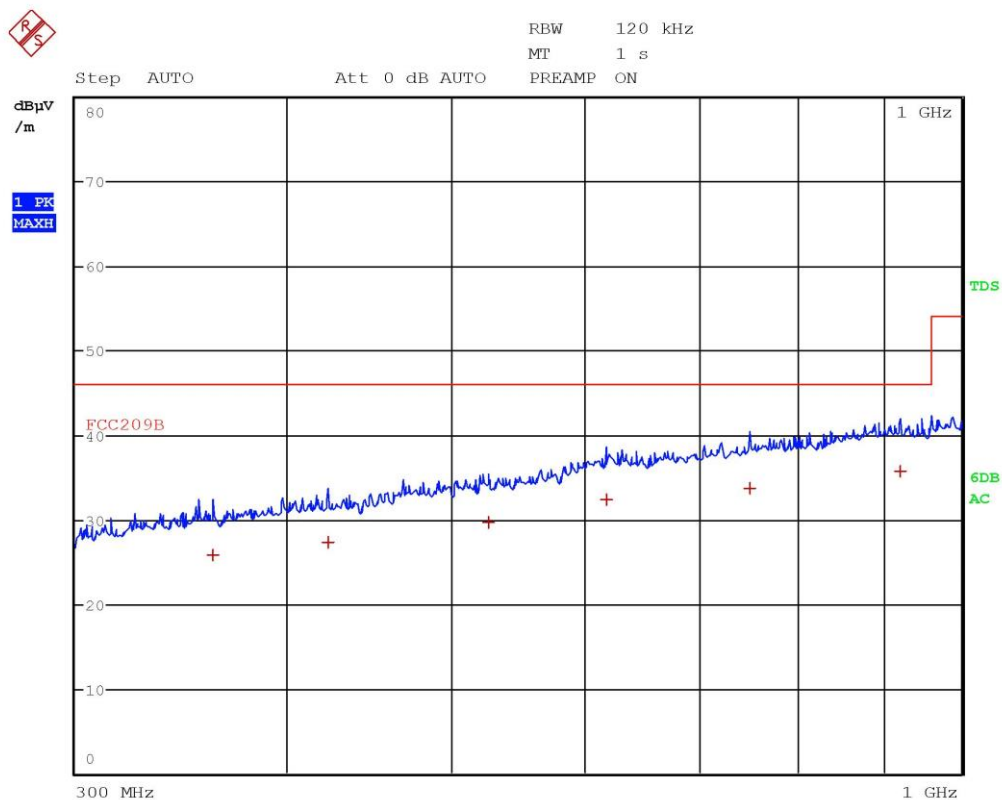
Polarization	Frequency Range (MHz)	Graphs	Remarks	Result
H	300 – 1000	G19118001	Worst case	Complies
V	300 – 1000	G19118002	Worst case	Complies
V	30 – 300	G19118003	Worst case	Complies
H	30 – 300	G19118004	Worst case	Complies
Loop	0,009 – 30	G19118005	Worst case	Complies
H	1000 – 3100	G19118006	Lowest channel	Complies
V	1000 – 3100	G19118007	Lowest channel	Complies
V	1000 – 3100	G19118008	Medium channel	Complies
H	1000 – 3100	G19118009	Medium channel	Complies
H	1000 – 3100	G19118010	Highest channel	Complies
V	1000 – 3100	G19118011	Highest channel	Complies
H	3100 – 10000	G19118019	Lowest channel	Complies
V	3100 – 10000	G19118020	Lowest channel	Complies
V	3100 – 10000	G19118021	Medium channel	Complies
H	3100 – 10000	G19118022	Medium channel	Complies
H	3100 – 10000	G19118023	Highest channel	Complies
V	3100 – 10000	G19118024	Highest channel	Complies
V	10000 – 18000	G19118025	Highest channel	Complies
H	10000 – 18000	G19118026	Highest channel	Complies
H	10000 – 18000	G19118027	Medium channel	Complies
V	10000 – 18000	G19118028	Medium channel	Complies
V	10000 – 18000	G19118029	Lowest channel	Complies
H	10000 – 18000	G19118030	Lowest channel	Complies
H	18000 – 26000	G19118031	Lowest channel	Complies
V	18000 – 26000	G19118032	Lowest channel	Complies
V	18000 – 26000	G19118033	Medium channel	Complies
H	18000 – 26000	G19118034	Medium channel	Complies
H	18000 – 26000	G19118035	Highest channel	Complies
V	18000 – 26000	G19118036	Highest channel	Complies
Remarks: Measurements at frequencies lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with different conversion factors, based on the measuring distance provided by the standard. Peaks above the limits are due to the nominal transmitting frequency				

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

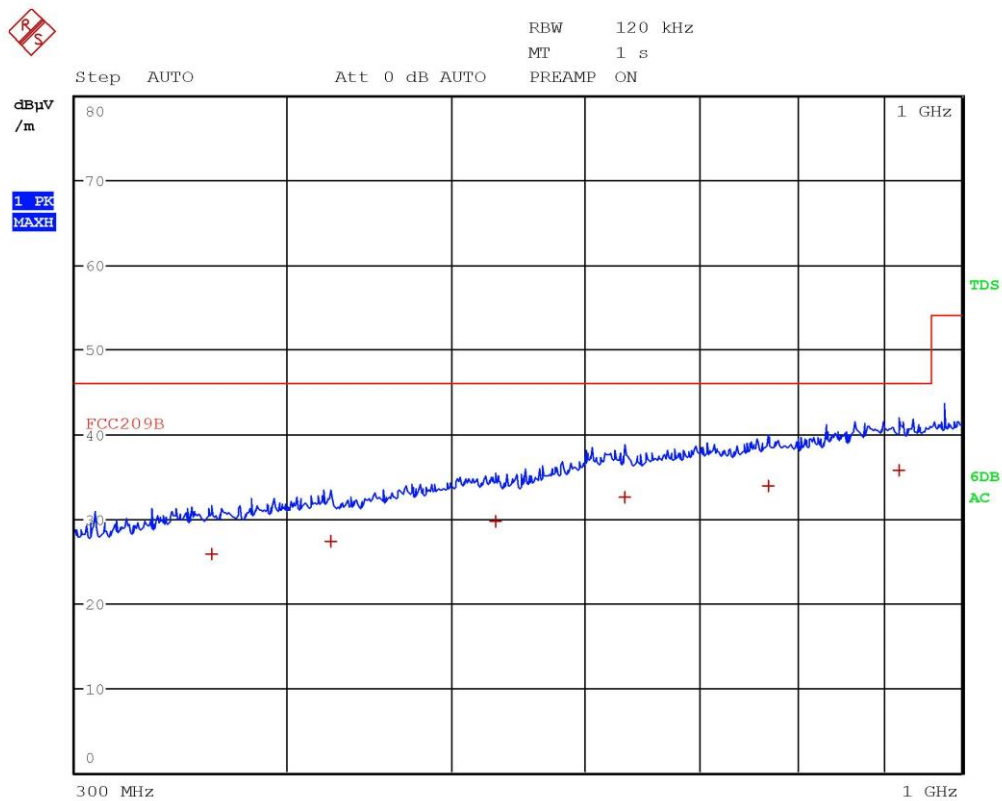


Gandini 19118001-Horiz-TX



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	361.52 MHz	25.85	-20.16
1 Quasi Peak	422.56 MHz	27.23	-18.78
1 Quasi Peak	525.68 MHz	29.69	-16.32
1 Quasi Peak	616.92 MHz	32.40	-13.61
1 Quasi Peak	750.24 MHz	33.72	-12.30
1 Quasi Peak	919.68 MHz	35.75	-10.26

Gandini 19118001-Horiz-TX

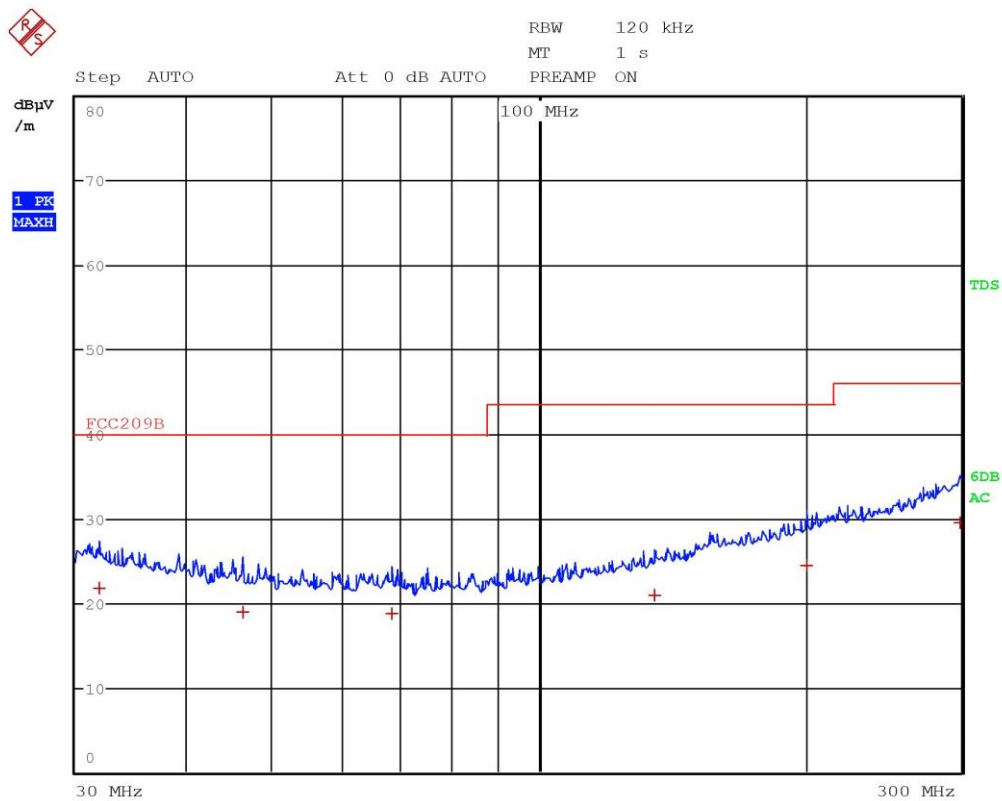


Gandini 19118002-Vert-TX



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	360.68 MHz	25.87	-20.14
1 Quasi Peak	424.2 MHz	27.28	-18.73
1 Quasi Peak	531.16 MHz	29.73	-16.28
1 Quasi Peak	633 MHz	32.46	-13.55
1 Quasi Peak	768.56 MHz	33.94	-12.07
1 Quasi Peak	918.6 MHz	35.75	-10.26

Gandini 19118002-Vert-TX

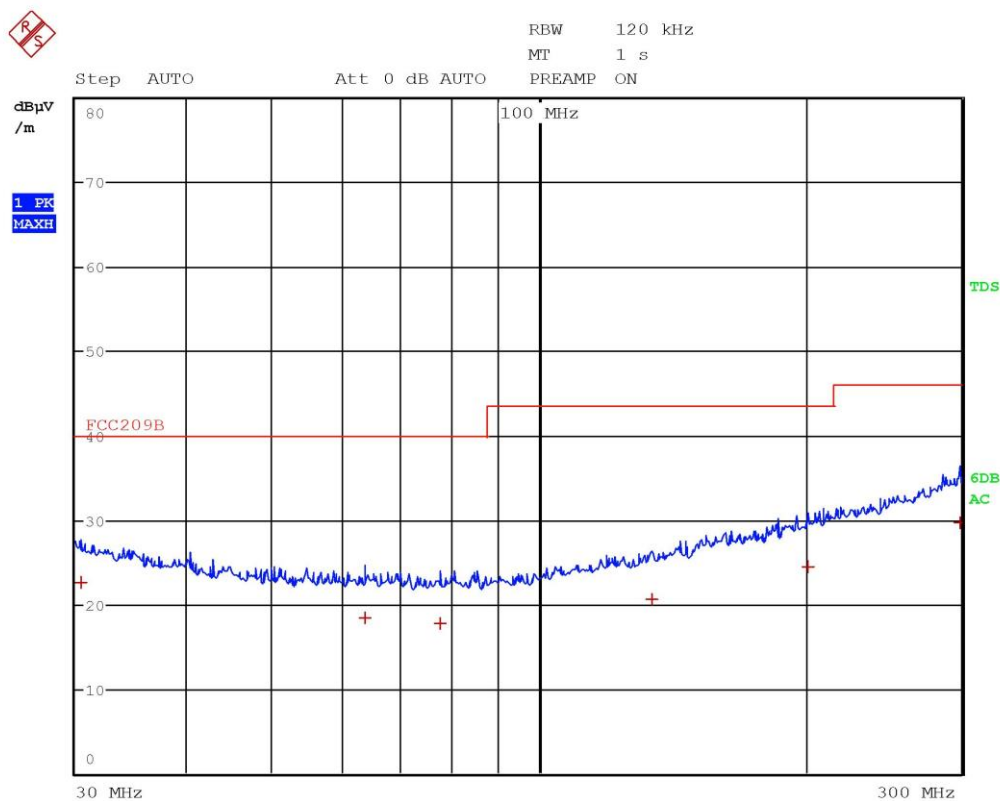


Gandini 19118003-Vert-TX



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	31.92 MHz	21.69	-18.30
1 Quasi Peak	46.32 MHz	18.90	-21.10
1 Quasi Peak	68.2 MHz	18.67	-21.32
1 Quasi Peak	135.16 MHz	20.84	-22.67
1 Quasi Peak	200.56 MHz	24.44	-19.07
1 Quasi Peak	298.92 MHz	29.56	-16.46

Gandini 19118003-Vert-TX

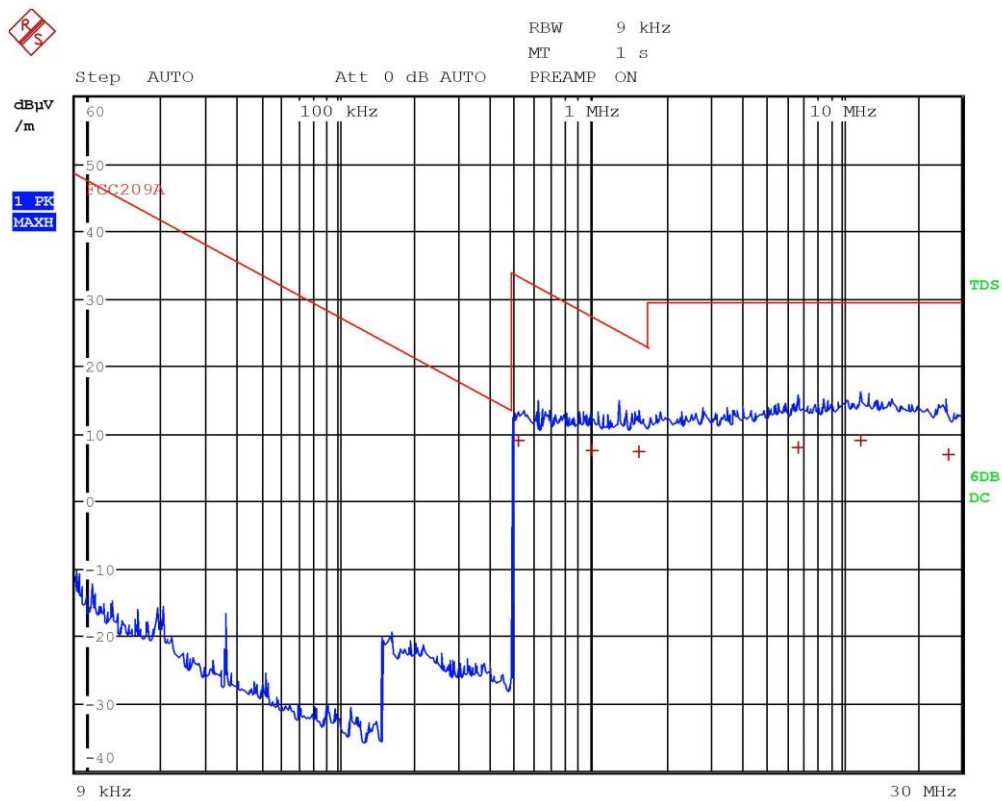


Gandini 19118004-Horiz-TX



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209B		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	30.36 MHz	22.55	-17.44
1 Quasi Peak	63.76 MHz	18.35	-21.64
1 Quasi Peak	77.52 MHz	17.70	-22.29
1 Quasi Peak	133.92 MHz	20.54	-22.97
1 Quasi Peak	201.6 MHz	24.44	-19.07
1 Quasi Peak	298.48 MHz	29.61	-16.40

Gandini 19118004-Horiz-TX

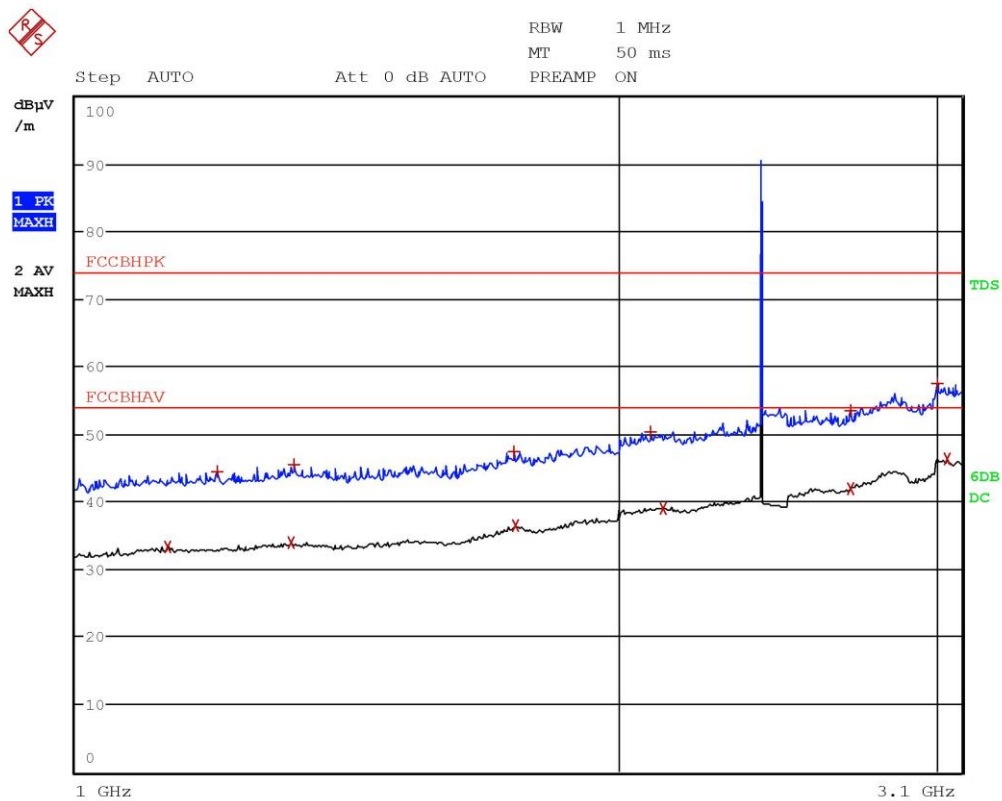


Gandini 19118005-Loop-TX



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	FCC209A		
Trace2:	---		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV/m	DELTA LIMIT dB
1 Quasi Peak	514 kHz	8.97	-24.41
1 Quasi Peak	1.022 MHz	7.50	-19.90
1 Quasi Peak	1.574 MHz	7.38	-16.28
1 Quasi Peak	6.73 MHz	8.00	-21.53
1 Quasi Peak	11.89 MHz	9.02	-20.51
1 Quasi Peak	26.702 MHz	6.85	-22.68

Gandini 19118005-Loop-TX



Gandini 19118006-Horiz-TX