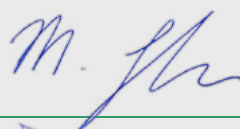


Test report nr. R25153101

Federal Communication Commission (FCC)

Customer	Xylem Service Italia S.r.l. Via Lombardi, 14 – 36075 Montecchio Maggiore (VI) – Italy	
(#) FCC ID	2AYCGXSI03	
(#) Description of item tested	Control system for frequency converters with wireless functions	
(#) Trademark	Xylem	
(#) Model and/or type reference	HVX+0.WM-T0000	
(#) Manufacturer	Xylem Water Systems Hungary Kft. Külső Kátai út 61 – Cegléd 2700 – Hungary	
(#) Rating(s)	24 Vdc	
Test method requested, standard(s)	FCC Rules & Regulations, Title 47:2024 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247 Tests details at page 13	
Tested by (name / position & signature)	M. Segalla Technician	
Approved by (name / position & signature)	F. Marenda Laboratory manager	
Date of issue	19.09.2025	
General disclaimer	The test results presented in this report relate only to the item tested. This report shall not be reproduced, except in full, without the written approval of DEKRA Testing and Certification S.r.l.	
Report template No	15-247_DTS_DEKRA	

(#) information provided by the customer

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Competences and guarantees

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.r.l. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.r.l. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.r.l. at the time of performance of the test.

DEKRA Testing and Certification S.r.l. is liable to the customer for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

General conditions

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.r.l.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.r.l. and the Accreditation Bodies.

Data provided by the customer

Information relating to the description of the sample, components list, and software/hardware version (if reported) are provided by the customer/manufacturer. DEKRA Testing and Certification S.r.l. cannot be considered responsible for this information, for any other document provided by the customer/manufacturer and for any difference between the software/hardware release present in the tested sample and that present in the object intended for final sale.

In some cases, the software in the tested sample is in a version dedicated exclusively to the test, and therefore does not represent the software installed in the final version of the product.

Reference standards

Standard(s)	Description
FCC Rules and Regulation Title 47 part 15:2024	--
KDB 558074 D01 15.247 Meas Guidance v05r02	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
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 C63.10:2020 + COR1:2023 + C63.10A:2024 + Errata to C63.10A:2024	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Usage of samples

Sample(s) used for testing chosen by the customer; DEKRA Testing and Certification S.r.l. cannot be considered responsible for the selection of the sample(s).

Internal identification	Serial number/Customer Id	Date of reception	Notes
P250863	--	23.07.2025	--

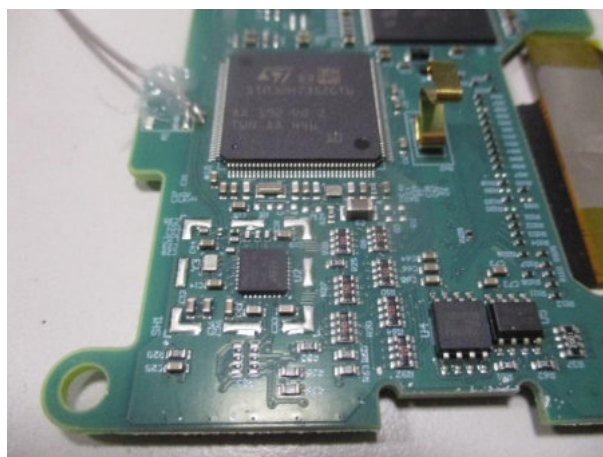
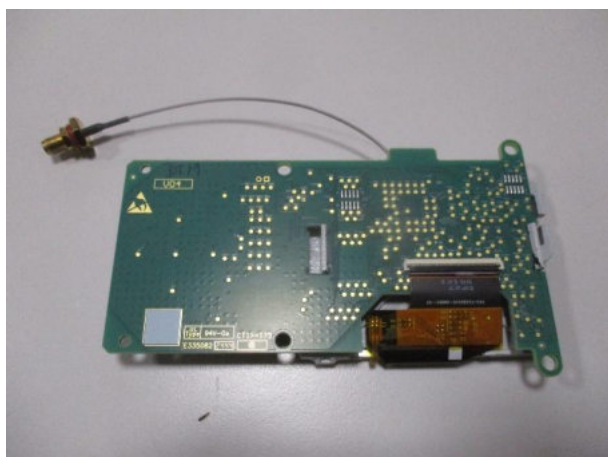
Test sample description

Test power supply..... :	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 24 V					☒
	☐	DC:					
Type of equipment..... :	☒	Transmitter unit					
	☒	Receiver unit					
Type of station..... :	☐	Portable station					
	☒	Mobile station					
Frequency band(s)..... :	2400 – 2483,5 MHz						
Nominal frequencies..... :	2402 MHz 2440 MHz 2480 MHz						
Software release..... :	FW pack 00.02.00						
Mounting position..... :	☐	Table top equipment					
	☒	Wall/Ceiling mounted equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
	☐	Other, for example rack mounted, body worn, etc.					
Operating modes..... :	N.	Operating mode of test item					
	1	EUT in continuous transmission at maximum power					



Photos of the test item





Testing period and place

Test Location	DEKRA Testing and Certification S.r.l.
FCC Registration Number	182474
Date (start)	06.08.2025
Date (finish)	27.08.2025

Document history

Report number	Date	Description
R25153101	19.09.2025	First release

List of attachments

Name	Description
Attachment 1	Measurement uncertainty, judgement of compliance and quality manual references

Environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.

The climatic conditions during the tests were within the following limits:

Temperature	Humidity	Atmospheric pressure
15 °C – 35 °C	30 % - 60 %	800 hPa – 1060 hPa

If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.

Environmental conditions have been monitored with the following instruments:

Id. number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
CMC S302	Testo	175H1	40370182 610	Data Logger	May 2025	May 2026

Remarks and comments

Throughout this report a comma is used as the decimal separator.

Tests reported in this test report marked by wording: "Test not accredited by ACCREDIA" are not part of the ACCREDIA accreditation of this laboratory.

Deviations from test specification

None.

Testing verdicts

N/A (Not Applicable)	Test case does not apply to the test object
P (Pass)	Test object meets the requirement
F (Fail)	Test object does not meet the requirement
N/E (Not Executed)	Test object was not evaluated for the requirement

Verdict summary

FCC Rules & Regulations, Title 47:2024 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247			
Clause	Requirement – Test case	Basic standard	Verdict
Part 15.203	Antenna requirements	--	P
Part 15.207	Conducted emissions	ANSI C63.10	P
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	ANSI C63.10	P
Part 15.247 (a) (2)	DTS bandwidth	ANSI C63.10	N/E
Part 15.215 (c)	20 dB bandwidth	ANSI C63.10	N/E
Part 15.247 (d)	Band edge	ANSI C63.10	N/E
Part 15.209 and 15.247	Fundamental emission output power	ANSI C63.10	P
Part 15.209 and 15.247	Maximum power spectral density level in the fundamental emission	ANSI C63.10	N/E

Test results

Antenna requirements

Tested by	M. Segalla	
Test date	06.08.2025	
Basic standard(s)	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
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, 15.221, or § 15.236. 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	
Antenna type	☒	Integral antenna
	☐	External antenna
Antenna gain	8,70 dBi	
External R.F. power amplifier	Not Present	

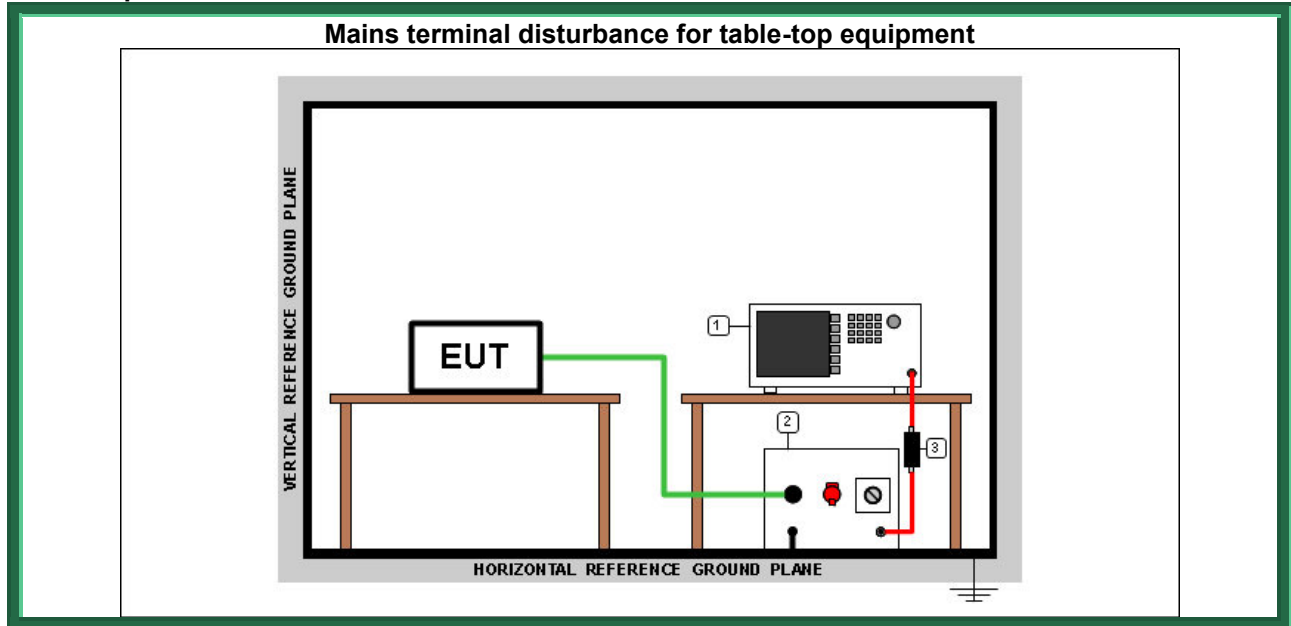
Conducted emission

Tested by	M. Segalla	
Test date	27.08.2025	
Test location (stand).....	Shielded chamber (CMC A001)	
Basic standard(s)	ANSI C63.10 cl. 6.2	
Product standard(s).....	FCC Rules and Regulation; Titles 47 Part. 15.207	
Test set-up description	☒	Table top equipment set-up (80 cm above the reference ground plane)
	☐	Floor standing equipment set-up (insulating material up to 12 mm thick)
	☐	False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary Test set-up description	--	
Test method applied.....	☒	Artificial mains network, 50 μ H/50 Ω LISN
	☐	Other:

Acceptance limits

Frequency range (MHz)	$\text{dB}(\mu\text{V})$ Quasi-peak	$\text{dB}(\mu\text{V})$ Average
0,15 to 0,50	66 to 56	56 to 46
0,5 to 5	56	46
5 to 30	60	50

Test setup



Test setup PE001_01

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
3	CMC S419	Rohde & Schwarz	ESH3-Z2	--	Pulse limiter	September 2025	September 2026
2	CMC S200	Schwarzbeck	NSLK 8128	8128-273	V-LISN	January 2025	January 2026
1	CMC S206	Rohde & Schwarz	ESCI 7	100781	EMC Receiver 9KHz-7GHz	December 2024	December 2025

Result

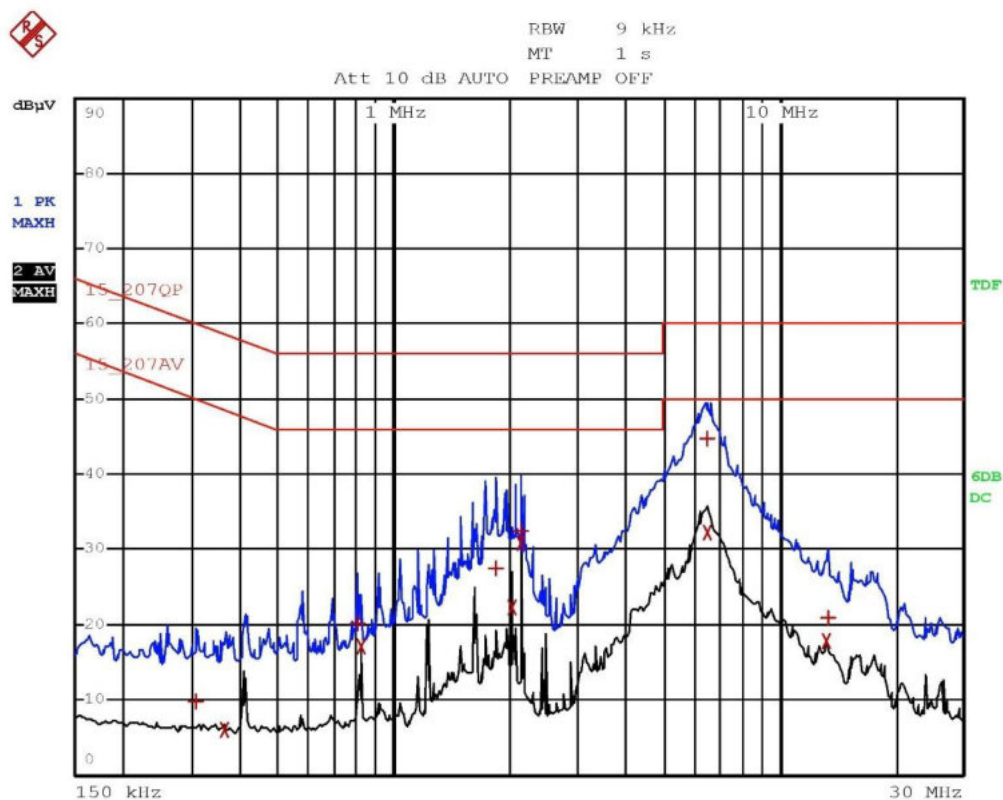
Line	Frequency Range (MHz)	Graphs	Remarks	Verdict
L1	0,15 – 30	25153124	--	P
N	0,15 – 30	25153125	--	P

Remarks: tests performed on 120 Vac side pf 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

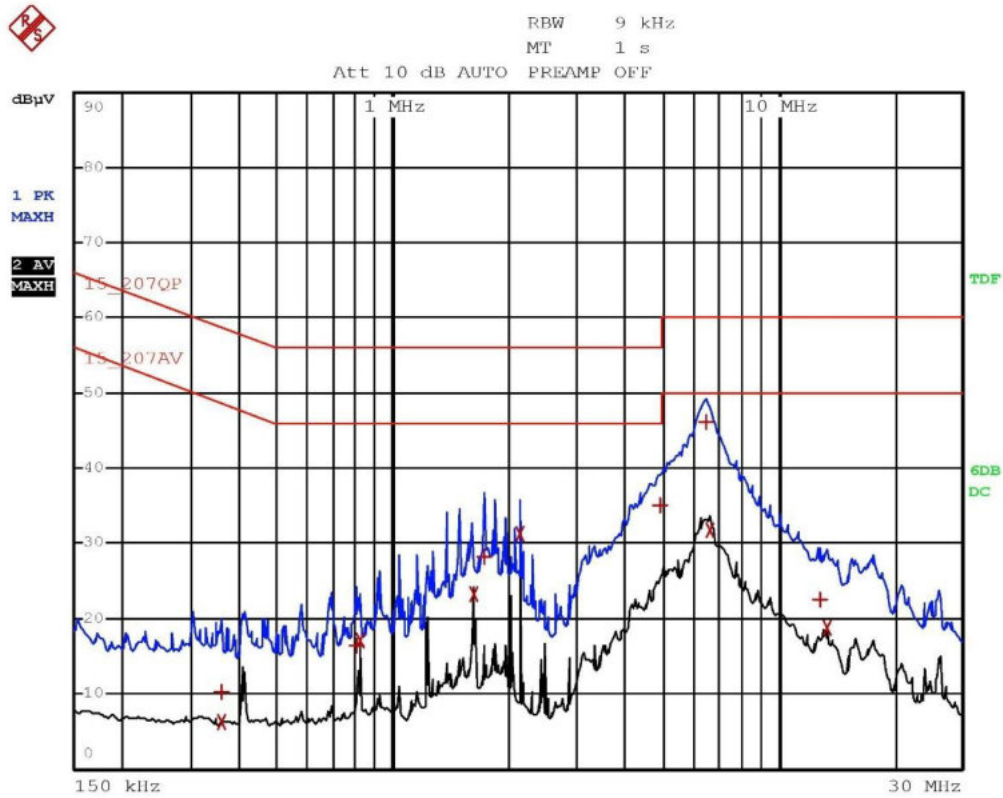
Graphs



Segalla 25153124

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	10.99	-49.08
2 Average	362 kHz	6.03	-42.65
1 Quasi Peak	806 kHz	20.04	-35.95
2 Average	822 kHz	17.22	-28.77
1 Quasi Peak	1.838 MHz	28.19	-27.80
2 Average	2.03 MHz	21.93	-24.06
1 Quasi Peak	2.142 MHz	32.76	-23.23
2 Average	2.142 MHz	30.88	-15.11
2 Average	6.49 MHz	32.08	-17.91
1 Quasi Peak	6.518 MHz	44.59	-15.40
2 Average	13.318 MHz	17.68	-32.31
1 Quasi Peak	13.462 MHz	20.80	-39.19

Segalla 25153124



Segalla 25153125

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	358 kHz	10.38	-48.39
2 Average	358 kHz	6.18	-42.59
1 Quasi Peak	802 kHz	16.44	-39.56
2 Average	822 kHz	17.24	-28.76
2 Average	1.626 MHz	23.20	-22.79
1 Quasi Peak	1.73 MHz	28.30	-27.69
2 Average	2.142 MHz	31.34	-14.65
1 Quasi Peak	4.982 MHz	35.04	-20.95
1 Quasi Peak	6.486 MHz	46.10	-13.89
2 Average	6.666 MHz	31.69	-18.30
1 Quasi Peak	12.814 MHz	22.55	-37.44
2 Average	13.366 MHz	18.69	-31.30

Segalla 25153125

Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	M. Segalla
Test date	06.08.2025
Test location (stand)	Semi-anechoic chamber (CMC A070)
Basic standard(s)	ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6
Product standard(s)	FCC Rules and Regulation; Titles 47 Part. 15.209
Test set-up description.....	☒ Table top equipment set-up (80 cm above the reference ground plane) ☐ Floor standing equipment set-up (insulating material up to 12 mm thick) ☐ False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary test set-up description	--
Test method applied	OATS or SAC with measurement distance [m]: 10 m for frequencies below 1 GHz 3 m for frequencies above 1 GHz
Supplementary information	--

Acceptance limits

Acceptance limits for emissions in restricted frequency bands ($f < 1000$ MHz)		
Frequency range (MHz)	Test distance (m)	Limits [dB(μ V/m)]
0,009 to 0,490	300	$20\log(2400/F(\text{kHz}))$
0,490 to 1,705	30	$20\log(24000/F(\text{kHz}))$
1,705 to 30	30	$20\log(30)$
30 to 88	3	$20\log(100)^{**}$
88 to 216	3	$20\log(150)^{**}$
216 to 960	3	$20\log(200)^{**}$
Above 960	3	$20\log(500)$

** : except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54 – 72 MHz, 76 – 88 MHz, 174 – 216 MHz or 470 – 806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

Perimeter protection systems may operate in the 54 – 72 MHz and 76 – 88 MHz bands under the provisions of this section. The use of such perimeter protection systems is limited to industrial, business and commercial applications.

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 and 110 – 490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector. The Verdict have been extrapolated to the specified distance using an extrapolation factor.

Acceptance limits for emissions in restricted frequency bands ($f \geq 1000$ MHz)			
Frequency (MHz)	Test distance (m)	AV limits [dB(μ V/m)]	Peak limits [dB(μ V/m)]
> 1000	3	54	74

The restricted frequency bands are listed in the following table:

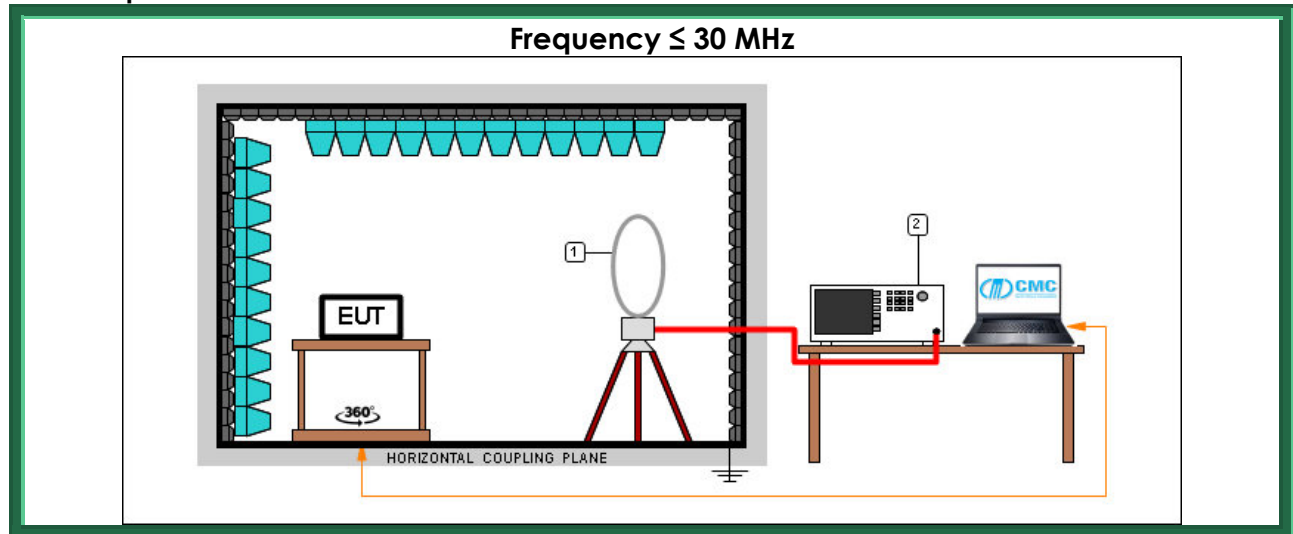
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	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 (according to ANSI C63.10 cl. 11.11.1)

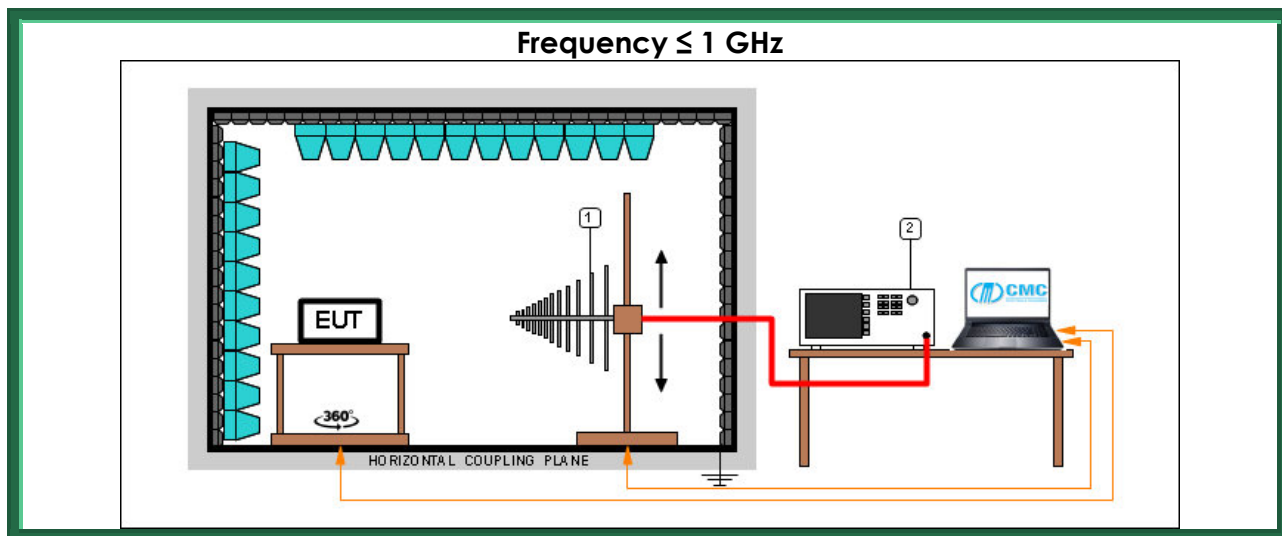
The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- 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.
- 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.
- In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required

Test setup



Test setup PE004_21							
Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
1	CMC S127	Schaffner	HLA6120	1191	Loop Antenna 9kHz - 30MHz	May 2025	May 2026
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

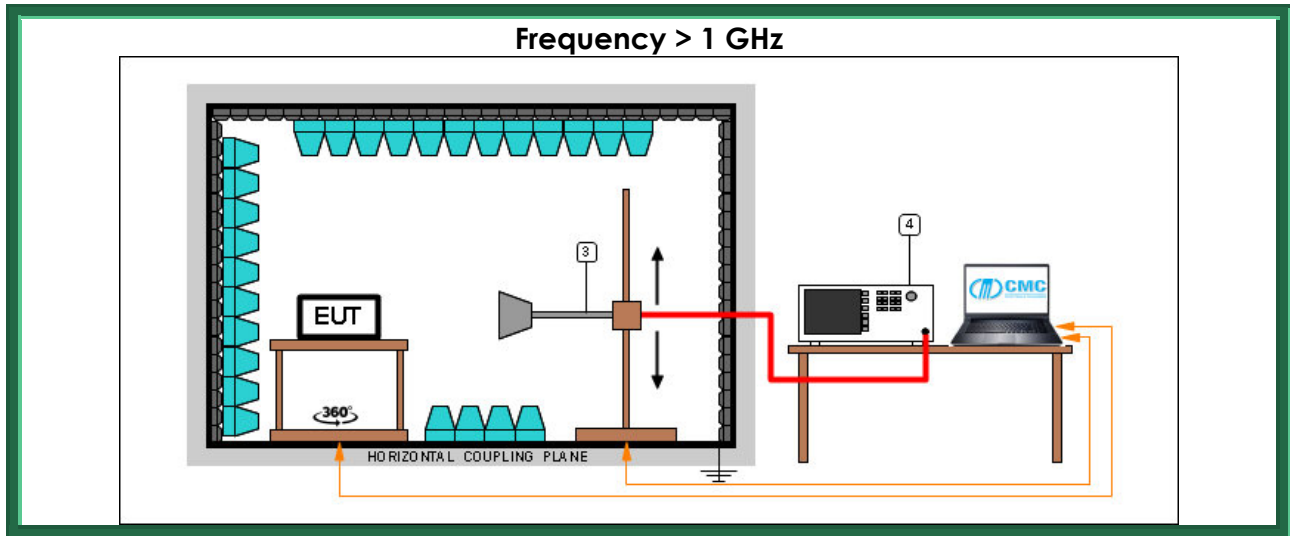


Test setup PE004_22

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	831	Broadband Antenna	August 2025	August 2028
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Test setup PE004_23

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
1	CMC S287	Schwarzbeck	VUSLP 9111B	9111B-203	Broadband Antenna	August 2025	August 2028
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required



Test setup PE004_24

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
4	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
3	CMC S108	Emco	3115	9811-5622	Waveguide antenna	August 2025	August 2028
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Test setup PE004_25

Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
4	CMC S402	Rohde & Schwarz	ESW44	103433	Emi Test Receiver	December 2024	December 2025
3	CMC S290	Schwarzbeck	BBHA 9170	733	Horn Antenna	October 2021	October 2026
--	CMC A105	Frankonia	FC06	FC06.1-2017-073	Turntable & Antenna mast controller (Software V02.05.013)	No calibration required	No calibration required

Result

Transmission frequency (MHz)	Polarization	Frequency Range (MHz)	Graphs	Verdict
2402	H	1000 – 3000	25153101	P
2402	V	1000 – 3000	25153102	P
2440	V	1000 – 3000	25153103	P
2440	H	1000 – 3000	25153104	P
2480	H	1000 – 3000	25153105	P
2480	V	1000 – 3000	25153106	P
2402	V	3000 – 18000	25153107	P
2402	H	3000 – 18000	25153108	P
2440	H	3000 – 18000	25153109	P
2440	V	3000 – 18000	25153110	P
2480	V	3000 – 18000	25153111	P
2480	H	3000 – 18000	25153112	P
2402	H	18000 – 26000	25153113	P
2402	V	18000 – 26000	25153114	P
2440	V	18000 – 26000	25153115	P
2440	H	18000 – 26000	25153116	P
2480	H	18000 – 26000	25153117	P
2480	V	18000 – 26000	25153118	P
Worst case	V	30 – 300	25153119	P
Worst case	H	30 – 300	25153120	P
Worst case	H	300 – 1000	25153121	P
Worst case	V	300 – 1000	25153122	P
Worst case	Loop	0,009 – 30	25153123	P

Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based on the measuring distance provided by the standard.

Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $20\log(\text{test distance}/10)$ based on the measuring distance provided by the standard.

Peaks above the limits are caused by the nominal transmitting frequencies.

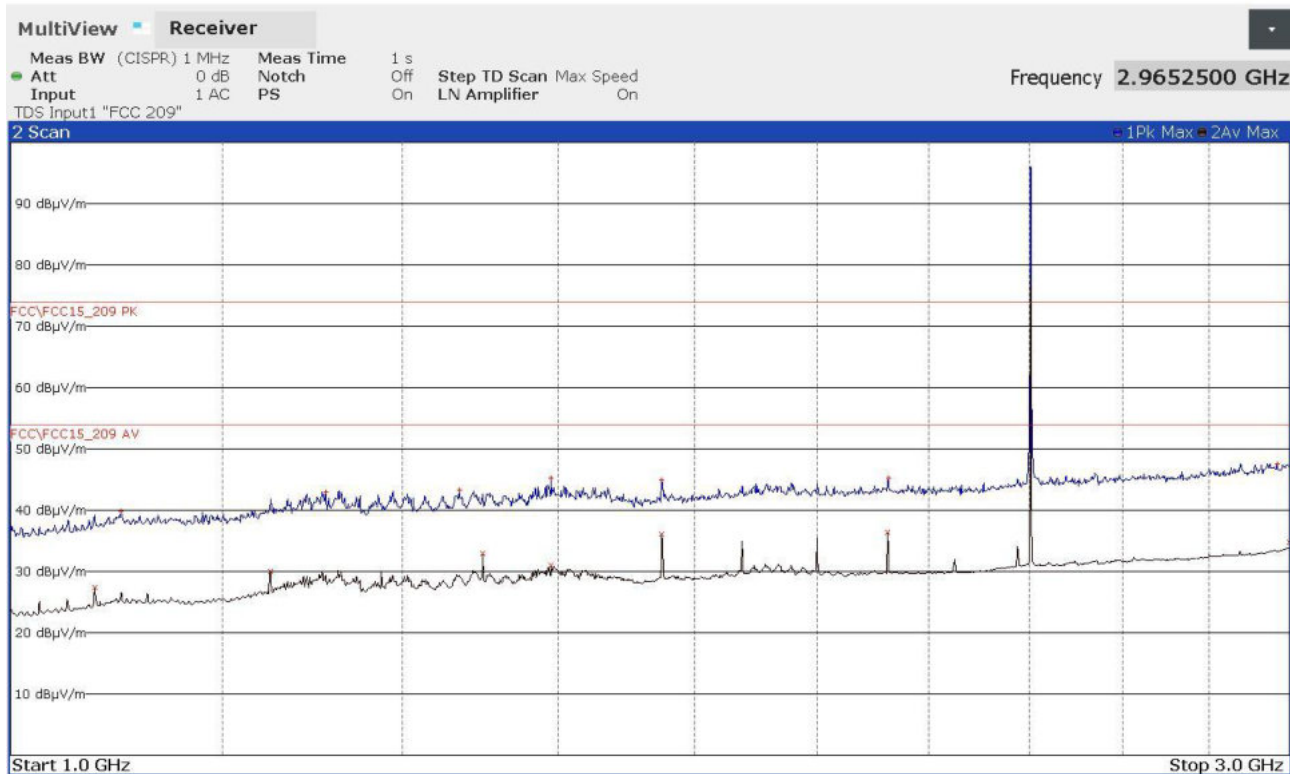
Graphs Legend

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

De Rosso-25153101

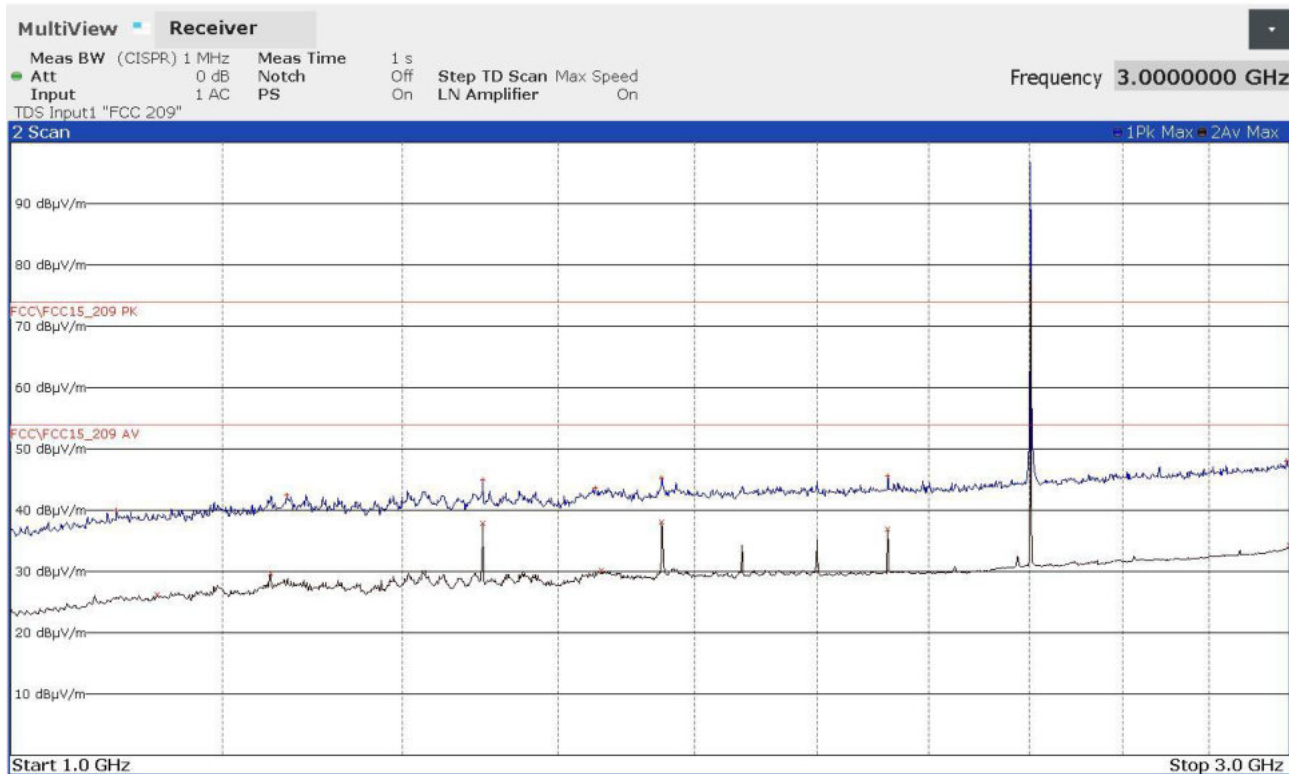


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1099750000	+39,84	-34,14	1075000000	+27,30	-26,68
1311000000	+42,92	-31,06	1250000000	+30,01	-23,97
1470750000	+43,31	-30,67	1500000000	+32,91	-21,07
1591000000	+45,20	-28,78	1591000000	+31,00	-22,98
1750000000	+44,84	-29,14	1750000000	+36,04	-17,94
2125250000	+45,22	-28,76	2125000000	+36,34	-17,64
2968000000	+47,61	-26,37	3000000000	+34,76	-19,22

25153101_2

De Rosso-25153102

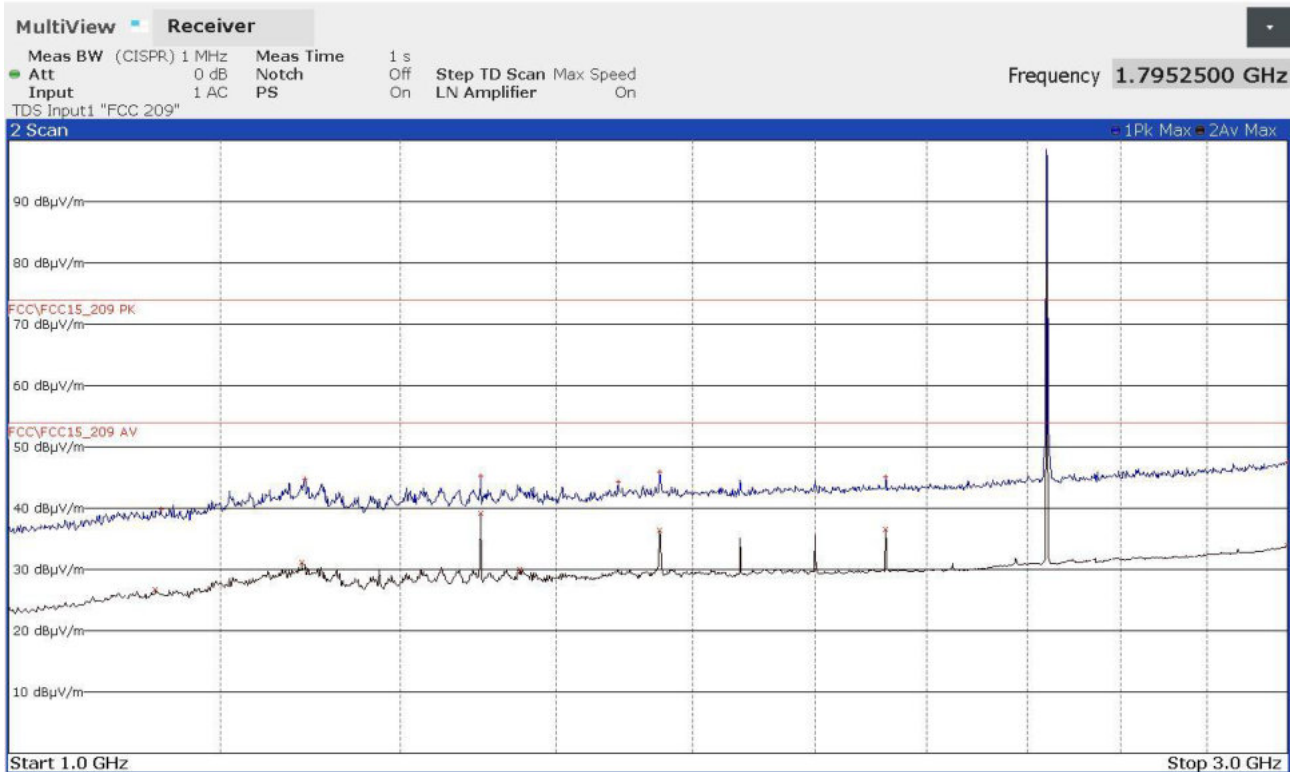


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1095000000	+40,05	-33,93	1134250000	+26,15	-27,83
1267750000	+42,47	-31,51	1250000000	+29,67	-24,31
1500000000	+44,89	-29,09	1500000000	+37,90	-16,08
1652250000	+43,58	-30,40	1661750000	+30,11	-23,87
1750000000	+45,23	-28,75	1750000000	+38,10	-15,88
2125000000	+45,64	-28,34	2125000000	+36,83	-17,15
2993000000	+48,05	-25,93	3000000000	+34,23	-19,75

25153102_2

De Rosso-25153103

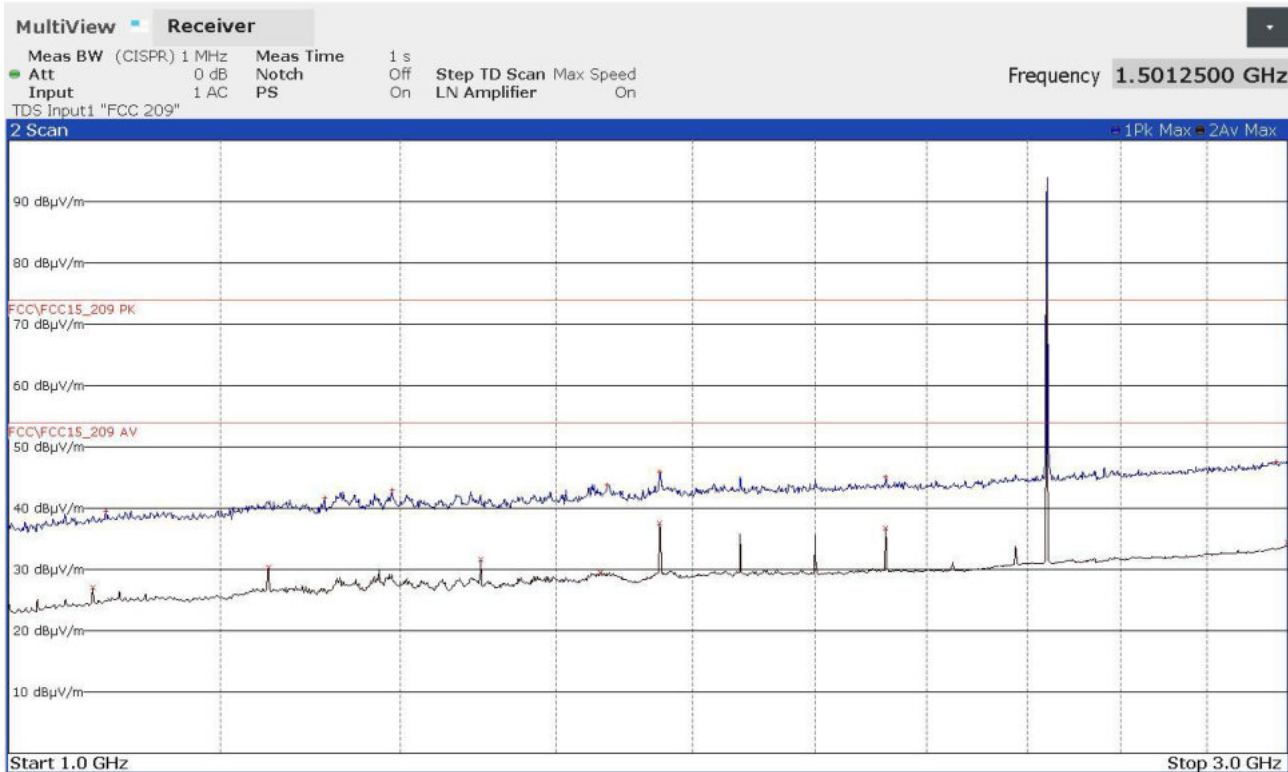


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1140000000	+39,80	-34,18	1134500000	+26,72	-27,26
1289500000	+44,75	-29,23	1286500000	+31,09	-22,89
1500000000	+45,20	-28,78	1500000000	+39,24	-14,74
1688250000	+44,22	-29,76	1552000000	+30,03	-23,95
1750000000	+45,83	-28,15	1750000000	+36,38	-17,60
2124750000	+45,15	-28,83	2125000000	+36,63	-17,35
2999500000	+47,58	-26,40	3000000000	+34,01	-19,97

25153103_2

De Rosso-25153104

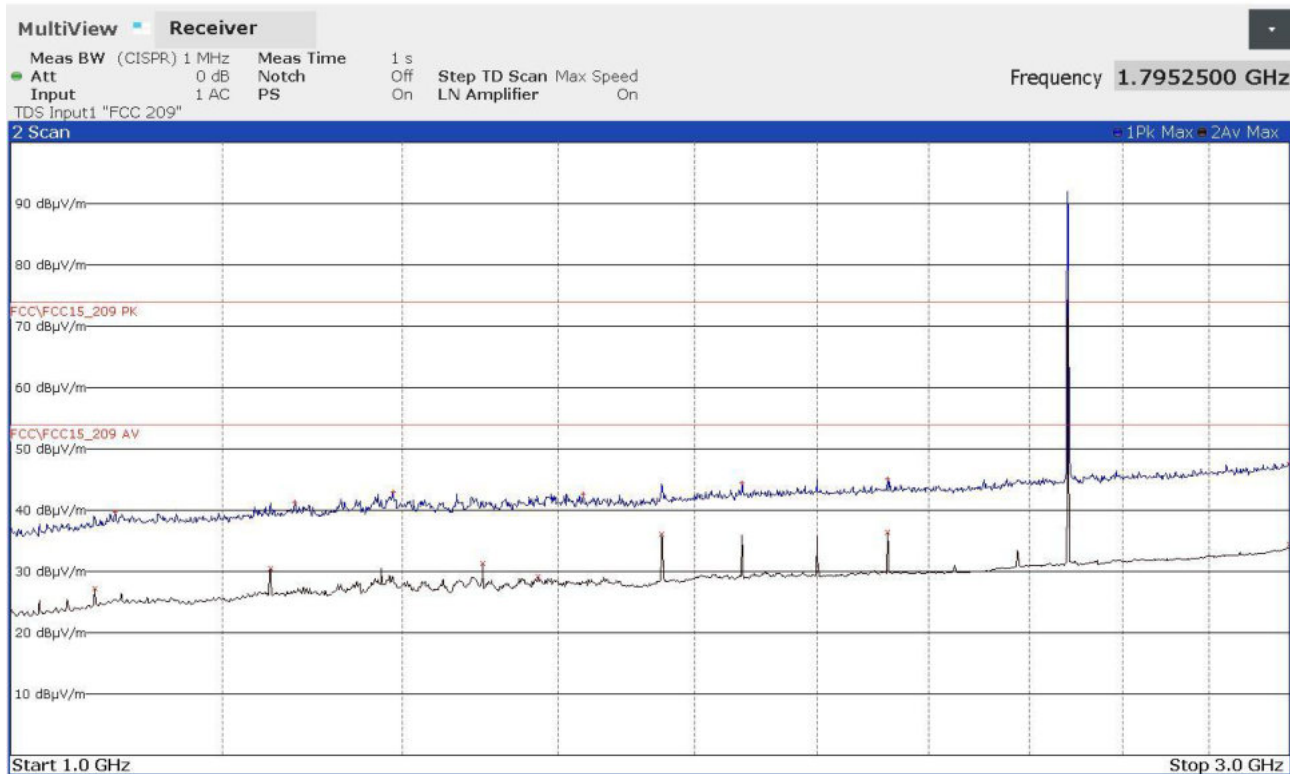


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1087250000	+39,55	-34,43	1075000000	+27,09	-26,89
1312000000	+41,60	-32,38	1250000000	+30,32	-23,66
1390250000	+42,94	-31,04	1500000000	+31,59	-22,39
1672500000	+43,85	-30,13	1663000000	+29,54	-24,44
1750000000	+45,90	-28,08	1750000000	+37,46	-16,52
2125000000	+45,06	-28,92	2125000000	+36,70	-17,28
2971250000	+47,58	-26,40	3000000000	+34,38	-19,60

25153104_2

De Rosso-25153105

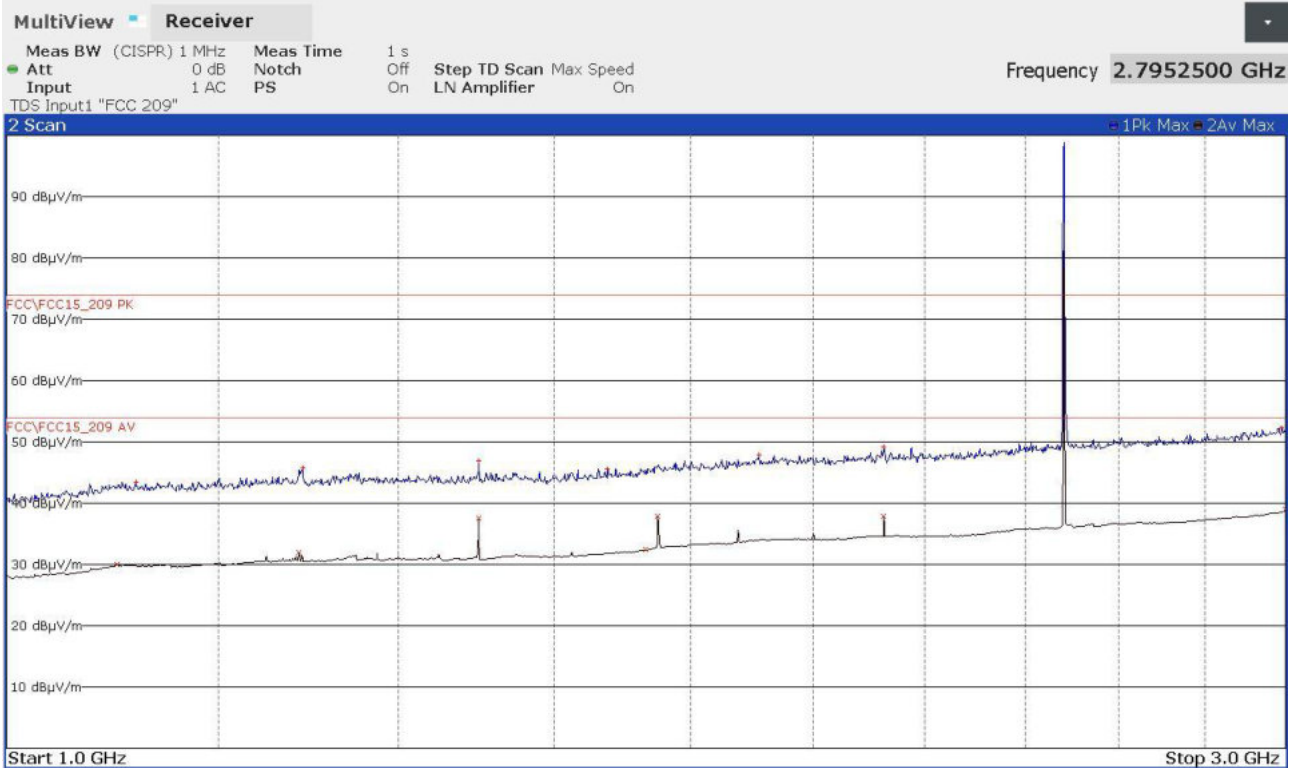


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1094250000	+39,74	-34,24	1075000000	+27,16	-26,82
1277000000	+41,33	-32,65	1250000000	+30,41	-23,57
1388750000	+42,97	-31,01	1500000000	+31,30	-22,68
1635250000	+42,60	-31,38	1572750000	+29,15	-24,83
1875000000	+44,37	-29,61	1750000000	+36,13	-17,85
2125000000	+45,16	-28,82	2125000000	+36,46	-17,52
2999500000	+47,63	-26,35	2999750000	+34,39	-19,59

25153105_2

De Rosso-25153106

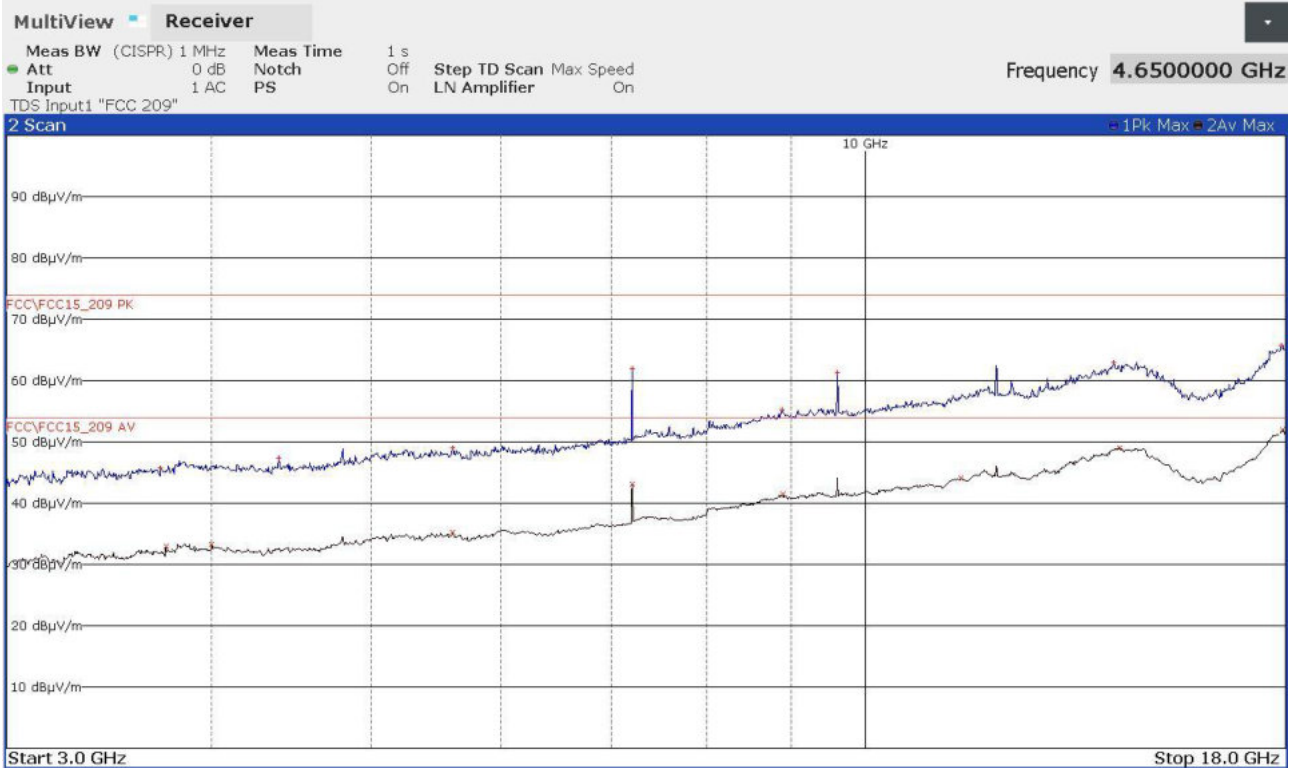


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1117750000	+43,48	-30,50	1100000000	+30,04	-23,94
1289750000	+45,68	-28,30	1285750000	+31,99	-21,99
1500000000	+46,82	-27,16	1500000000	+37,55	-16,43
1676000000	+45,60	-28,38	1730750000	+32,39	-21,59
1908000000	+47,80	-26,18	1750000000	+37,92	-16,06
2124500000	+49,16	-24,82	2125000000	+37,92	-16,06
2990250000	+52,31	-21,67	3000000000	+39,01	-14,97

25153106_2

De Rosso-25153107

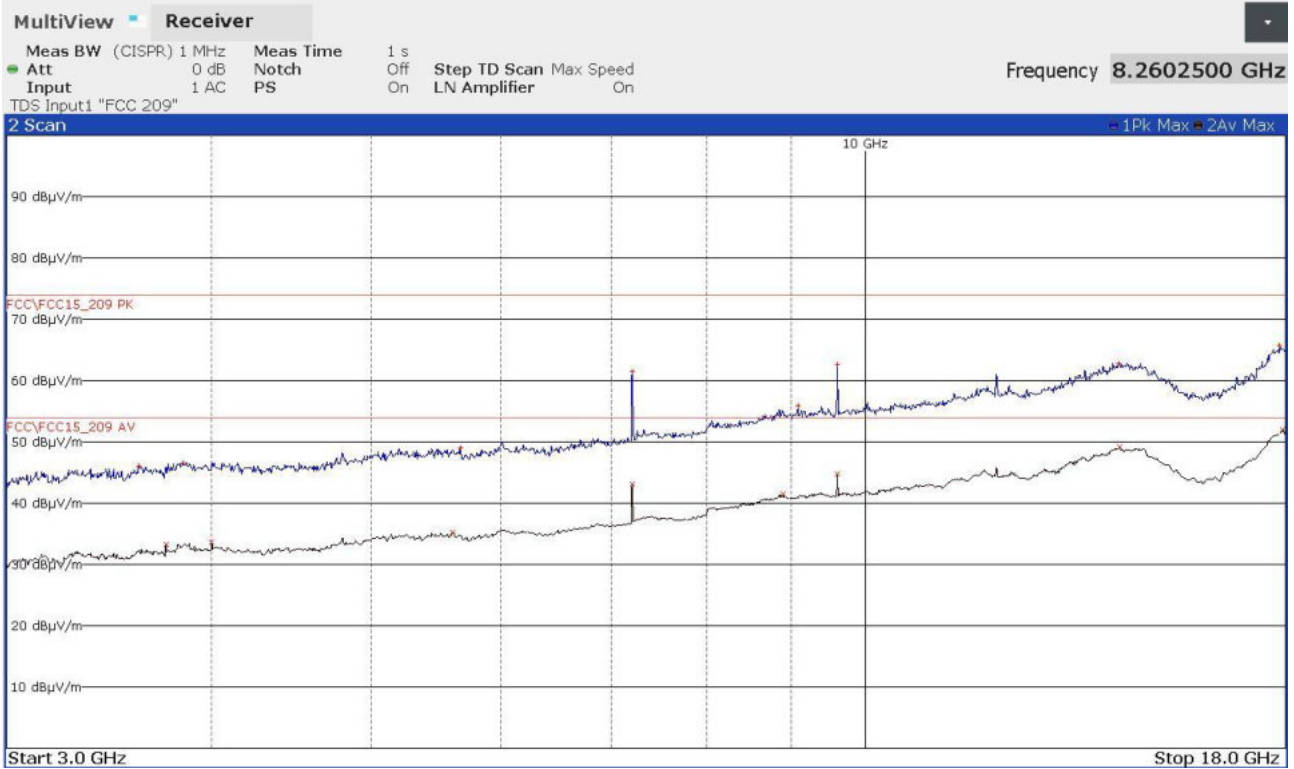


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3722750000	+45,76	-28,22	3750000000	+32,89	-21,09
4392500000	+47,41	-26,57	4000000000	+33,34	-20,64
5605750000	+48,97	-25,01	5606750000	+35,19	-18,79
7206750000	+61,98	-12,00	7205500000	+43,13	-10,85
8895750000	+55,27	-18,71	8900000000	+41,40	-12,58
9609000000	+61,34	-12,64	11420000000	+44,03	-9,95
14151500000	+62,91	-11,07	14260000000	+49,09	-4,89
17893250000	+65,81	-8,17	17920000000	+51,98	-2,00

25153107_2

De Rosso-25153108

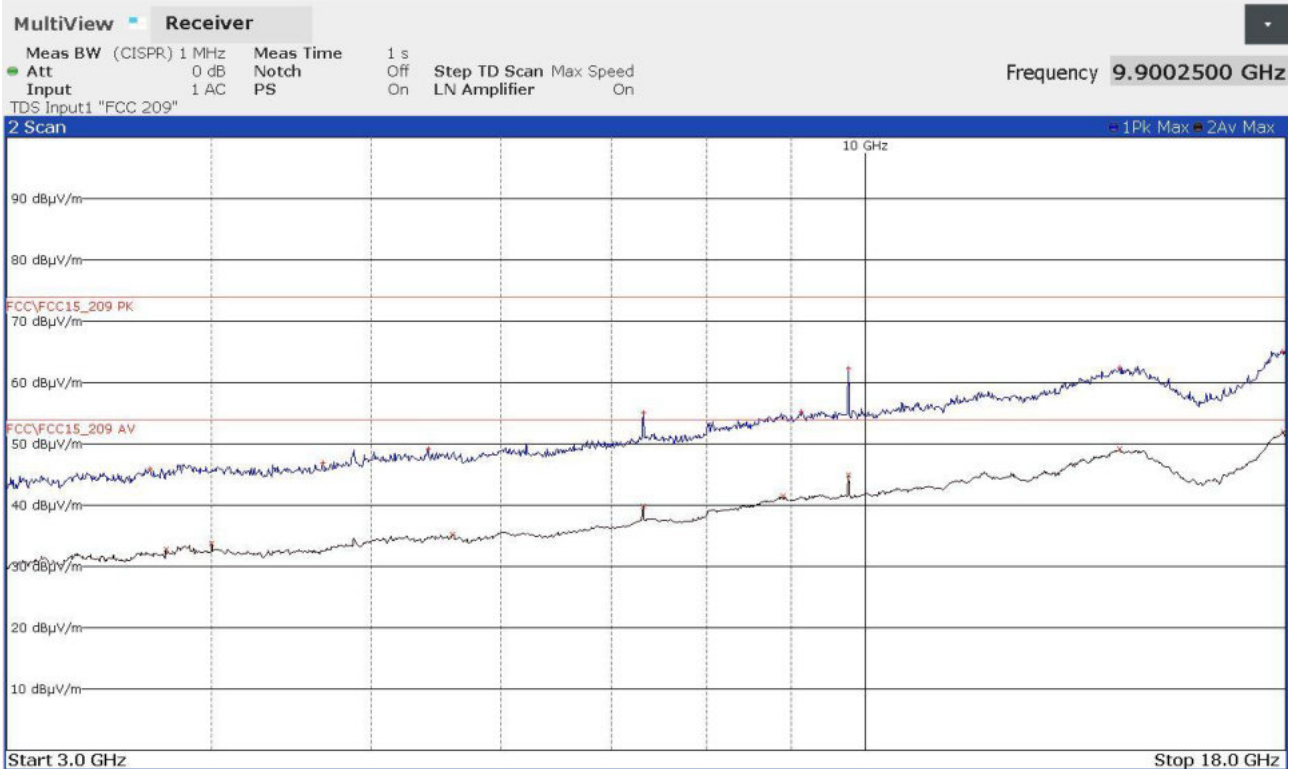


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3610000000	+45,99	-27,99	3750000000	+33,31	-20,67
3840750000	+46,62	-27,36	4000000000	+33,56	-20,42
5664000000	+49,06	-24,92	5605250000	+35,19	-18,79
7205250000	+61,44	-12,54	7205500000	+43,14	-10,84
9095500000	+55,84	-18,14	8900000000	+41,41	-12,57
9609000000	+62,62	-11,36	9607250000	+44,77	-9,21
14252750000	+62,77	-11,21	14260000000	+49,10	-4,88
17851750000	+65,77	-8,21	17920000000	+51,97	-2,01

25153108_2

De Rosso-25153109

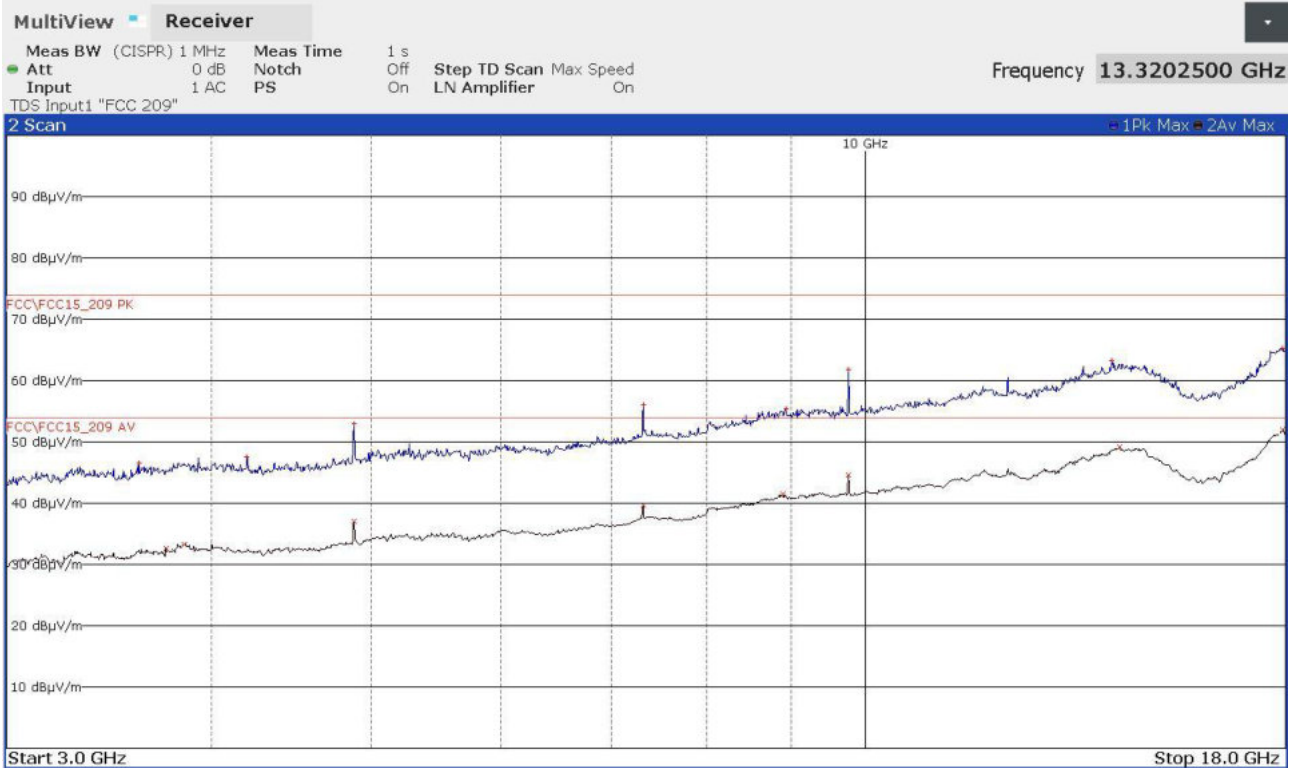


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3670500000	+45,96	-28,02	3750000000	+32,84	-21,14
4674500000	+46,87	-27,11	4000000000	+33,70	-20,28
5415000000	+49,23	-24,75	5605750000	+35,20	-18,78
7319250000	+55,15	-18,83	7319500000	+39,78	-14,20
9139000000	+55,26	-18,72	8900000000	+41,43	-12,55
9759000000	+62,33	-11,65	9759000000	+44,98	-9,00
14275000000	+62,43	-11,55	14260000000	+49,11	-4,87
17918000000	+65,14	-8,84	17940000000	+52,03	-1,95

25153109_2

De Rosso-25153110

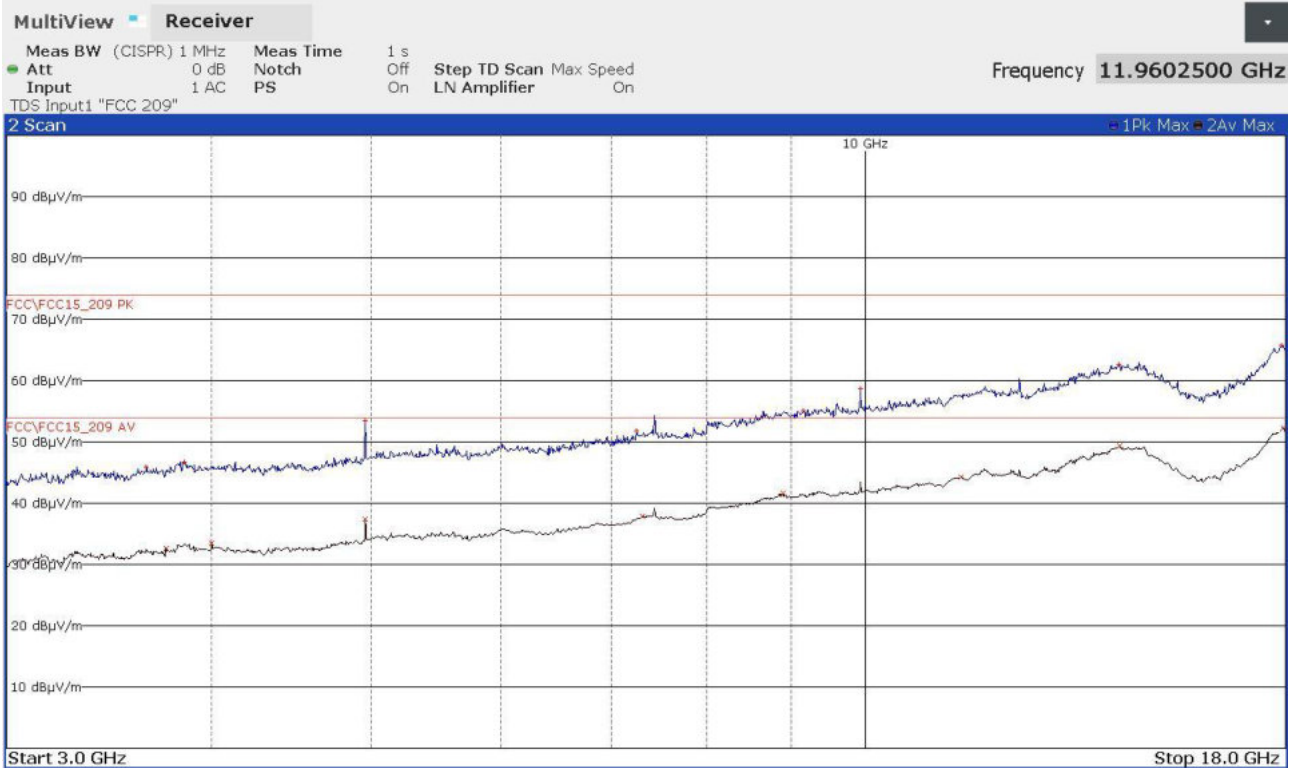


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3610250000	+46,53	-27,45	3750000000	+32,55	-21,43
4202500000	+47,58	-26,40	3850000000	+33,35	-20,63
4880500000	+53,01	-20,97	4879750000	+37,09	-16,89
7320000000	+56,14	-17,84	7319500000	+39,67	-14,31
8940000000	+55,44	-18,54	8900000000	+41,43	-12,55
9759000000	+61,74	-12,24	9759000000	+44,66	-9,32
14114500000	+63,21	-10,77	14260000000	+49,12	-4,86
17916250000	+65,30	-8,68	17920000000	+52,01	-1,97

25153110_2

De Rosso-25153111

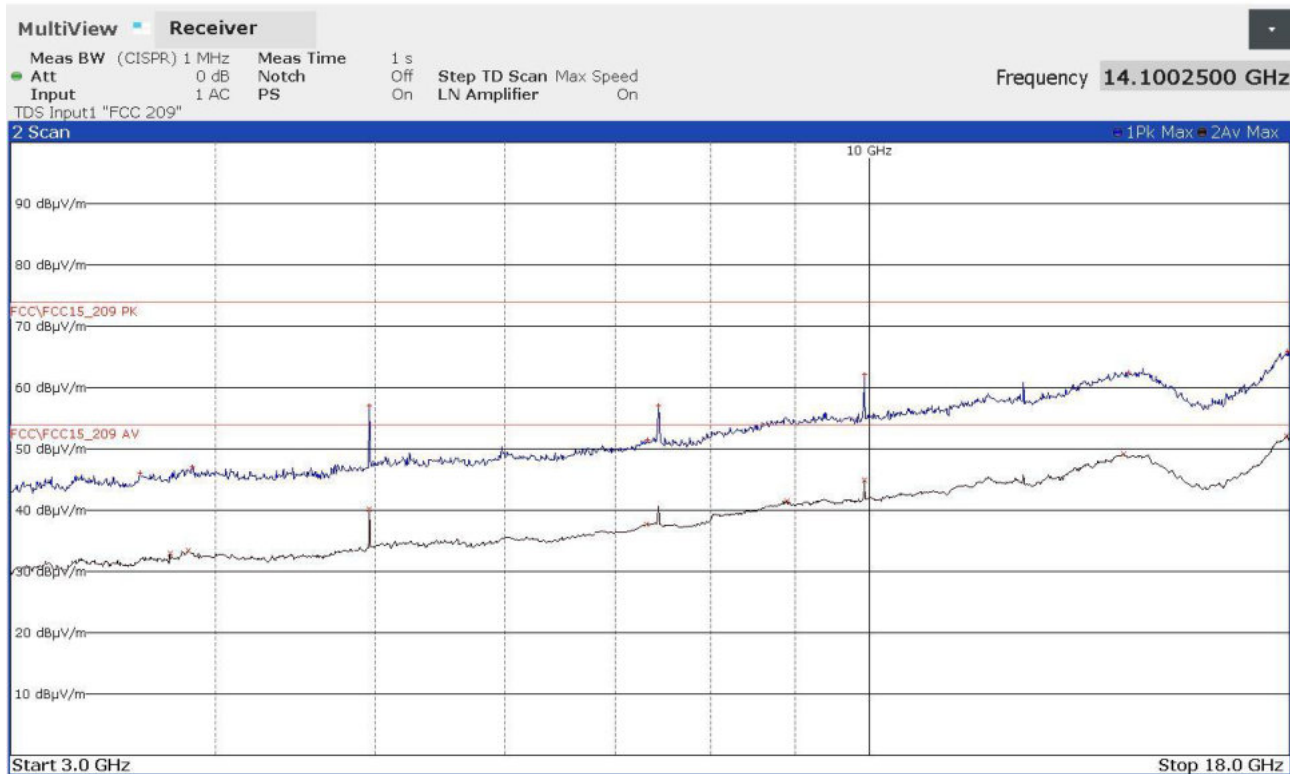


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3650500000	+45,97	-28,01	3750000000	+32,56	-21,42
3850250000	+46,73	-27,25	4000000000	+33,41	-20,57
4959500000	+53,39	-20,59	4959750000	+37,37	-16,61
7253250000	+51,78	-22,20	7316500000	+37,82	-16,16
9163500000	+55,02	-18,96	8900000000	+41,58	-12,40
9919000000	+58,75	-15,23	11420000000	+44,22	-9,76
14259500000	+62,59	-11,39	14260000000	+49,28	-4,70
17897750000	+65,74	-8,24	17940000000	+52,37	-1,61

25153111_2

De Rosso-25153112

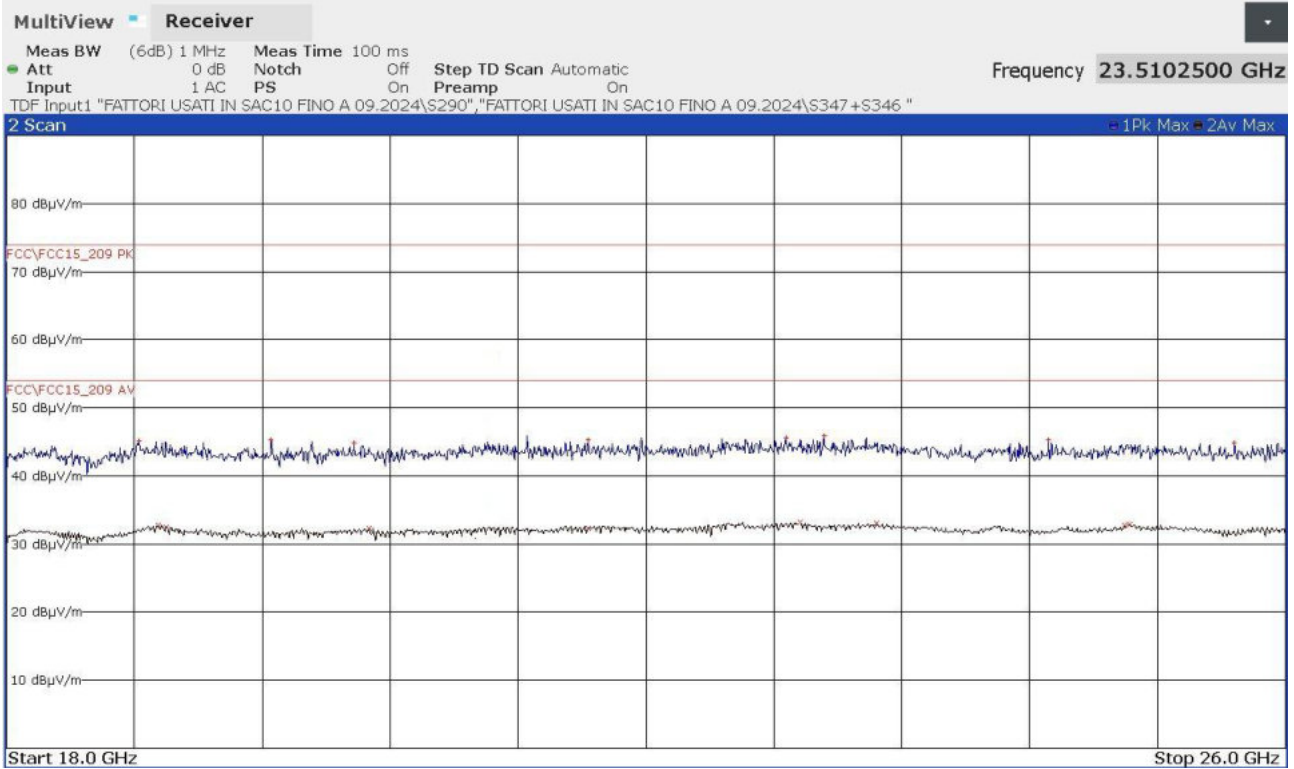


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3596500000	+46,03	-27,95	3750000000	+32,87	-21,11
3872750000	+47,07	-26,91	3850250000	+33,37	-20,61
4959500000	+57,05	-16,93	4959750000	+40,11	-13,87
7321000000	+51,47	-22,51	7317250000	+37,73	-16,25
7440500000	+57,13	-16,85	8900000000	+41,47	-12,51
9919000000	+62,08	-11,90	9919250000	+44,94	-9,04
14371750000	+62,52	-11,46	14260000000	+49,18	-4,80
17959250000	+65,90	-8,08	17920000000	+52,16	-1,82

25153112_2

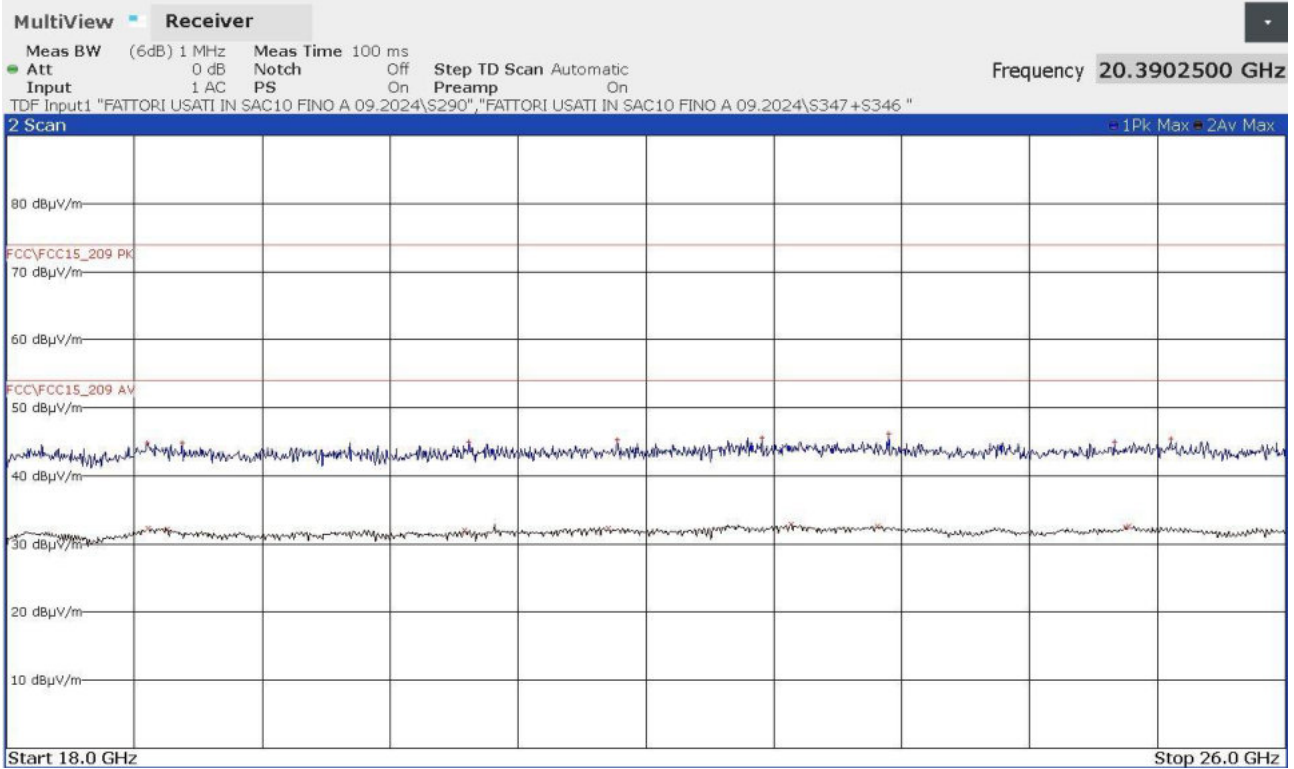
De Rosso-25153113



FINAL RESULT TABLE					
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18828250000	+45,11	-28,87	18948500000	+32,76	-21,22
19655500000	+45,29	-28,69	19001000000	+32,51	-21,47
20174750000	+44,82	-29,16	20268000000	+32,37	-21,61
21052750000	+57,91	-16,07	21052500000	+37,70	-16,28
22874750000	+45,65	-28,33	22966500000	+33,20	-20,78
23114250000	+45,88	-28,10	23445250000	+33,03	-20,95
24517750000	+45,31	-28,67	24995750000	+32,69	-21,29
25680250000	+44,85	-29,13	25025000000	+32,84	-21,14

25153113_2

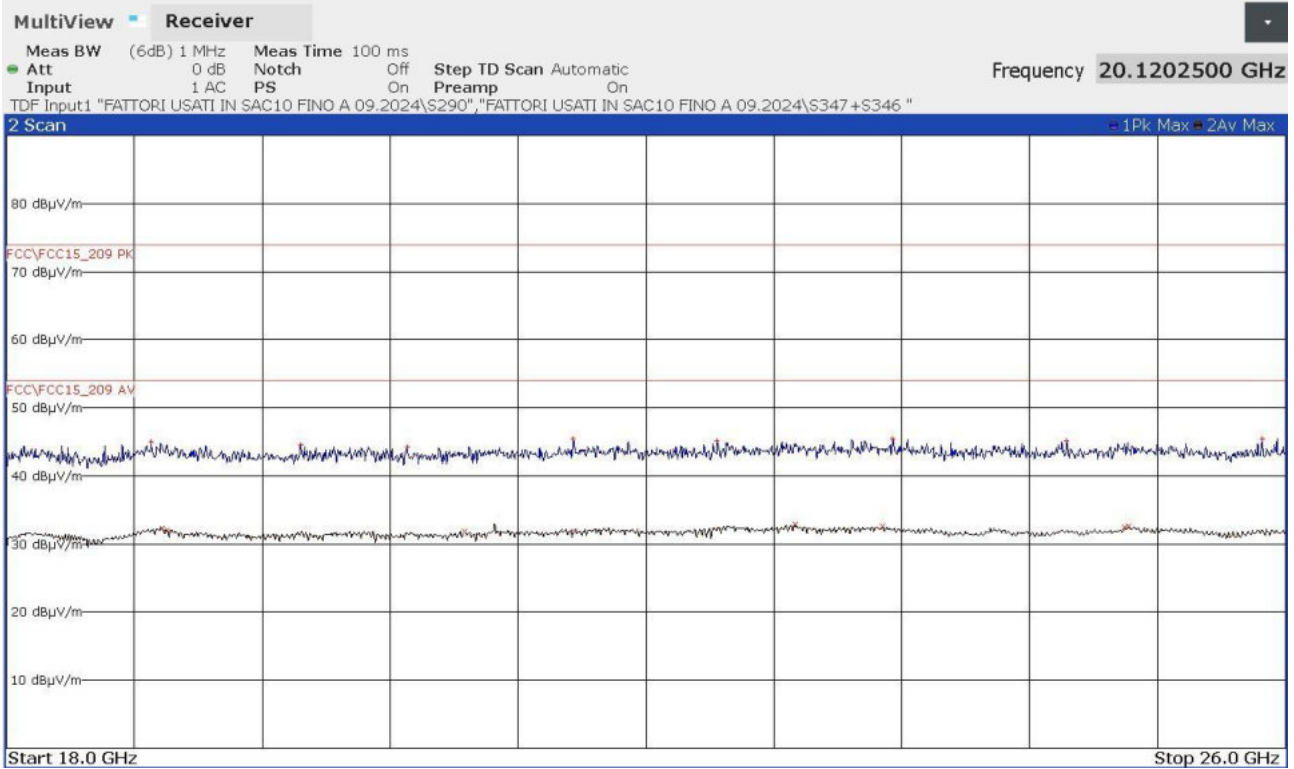
De Rosso-25153114



FINAL RESULT TABLE					
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18877750000	+44,85	-29,13	18885750000	+32,28	-21,70
19097500000	+44,79	-29,19	19006000000	+32,23	-21,75
20893750000	+45,02	-28,96	20867250000	+32,08	-21,90
21821250000	+45,24	-28,74	21765500000	+32,36	-21,62
22725500000	+45,64	-28,34	22908250000	+32,92	-21,06
23519000000	+46,25	-27,73	23446500000	+32,65	-21,33
24930750000	+44,95	-29,03	24999250000	+32,41	-21,57
25284500000	+45,47	-28,51	25016500000	+32,68	-21,30

25153114_2

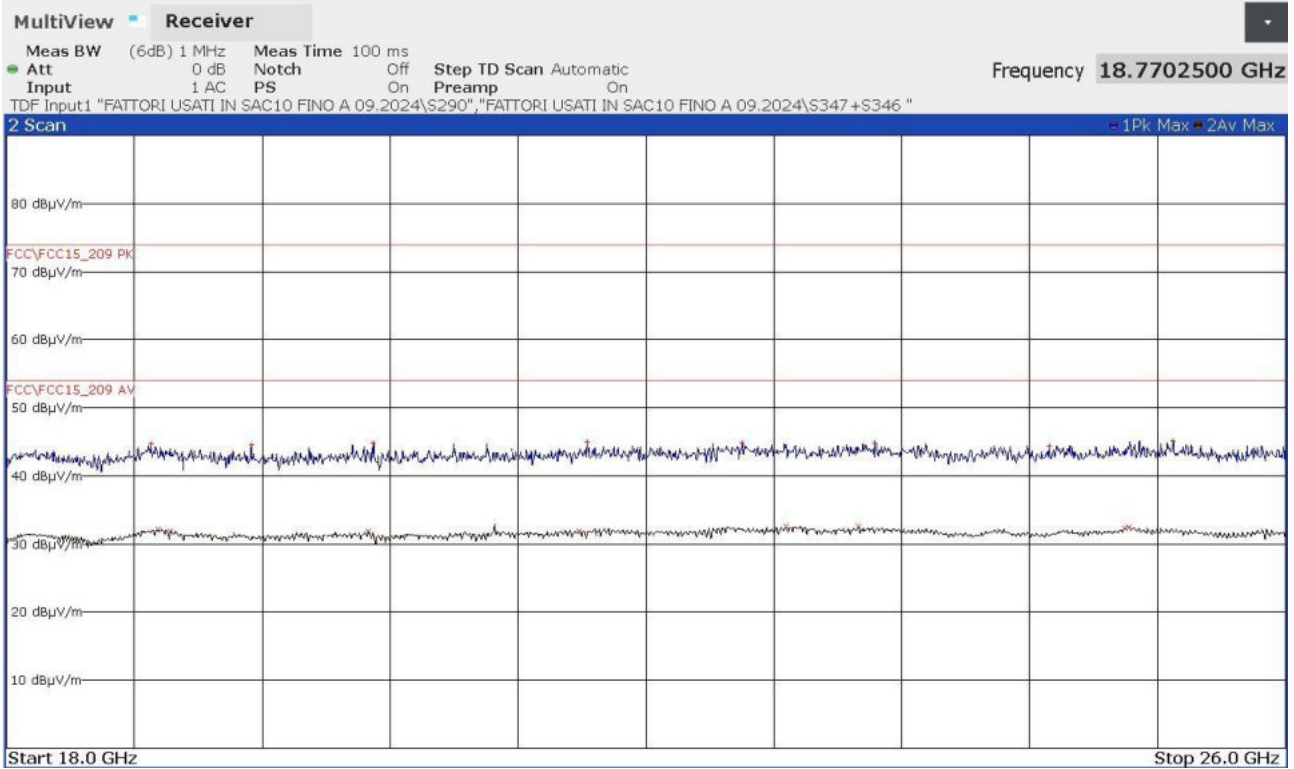
De Rosso-25153115



FINAL RESULT TABLE					
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18904500000	+44,93	-29,05	18977000000	+32,28	-21,70
19840750000	+44,62	-29,36	19005750000	+32,09	-21,89
20506500000	+44,32	-29,66	20867250000	+31,94	-22,04
21545250000	+45,51	-28,47	21549250000	+31,88	-22,10
22444500000	+45,10	-28,88	22933500000	+32,92	-21,06
23545500000	+45,39	-28,59	23477500000	+32,63	-21,35
24631750000	+45,19	-28,79	24995000000	+32,39	-21,59
25855250000	+45,41	-28,57	25019500000	+32,54	-21,44

25153115_2

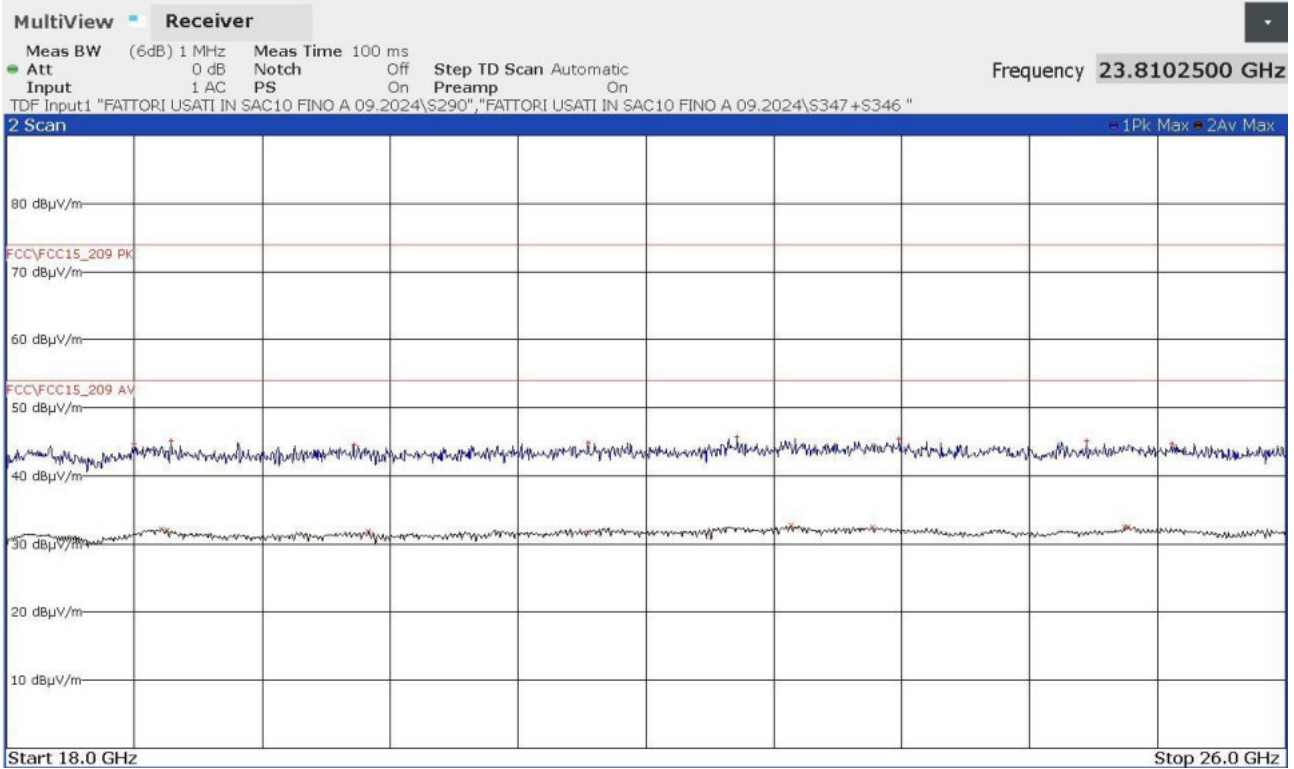
De Rosso-25153116



FINAL RESULT TABLE					
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18904750000	+44,74	-29,24	18947500000	+32,20	-21,78
19530750000	+44,53	-29,45	19026000000	+31,94	-22,04
20296750000	+44,85	-29,13	20264750000	+31,83	-22,15
21631000000	+45,01	-28,97	21584750000	+31,91	-22,07
22603250000	+44,91	-29,07	22879250000	+32,58	-21,40
23431500000	+44,87	-29,11	23327750000	+32,54	-21,44
24522500000	+44,46	-29,52	24996000000	+32,35	-21,63
25299000000	+45,22	-28,76	25018500000	+32,48	-21,50

25153116_2

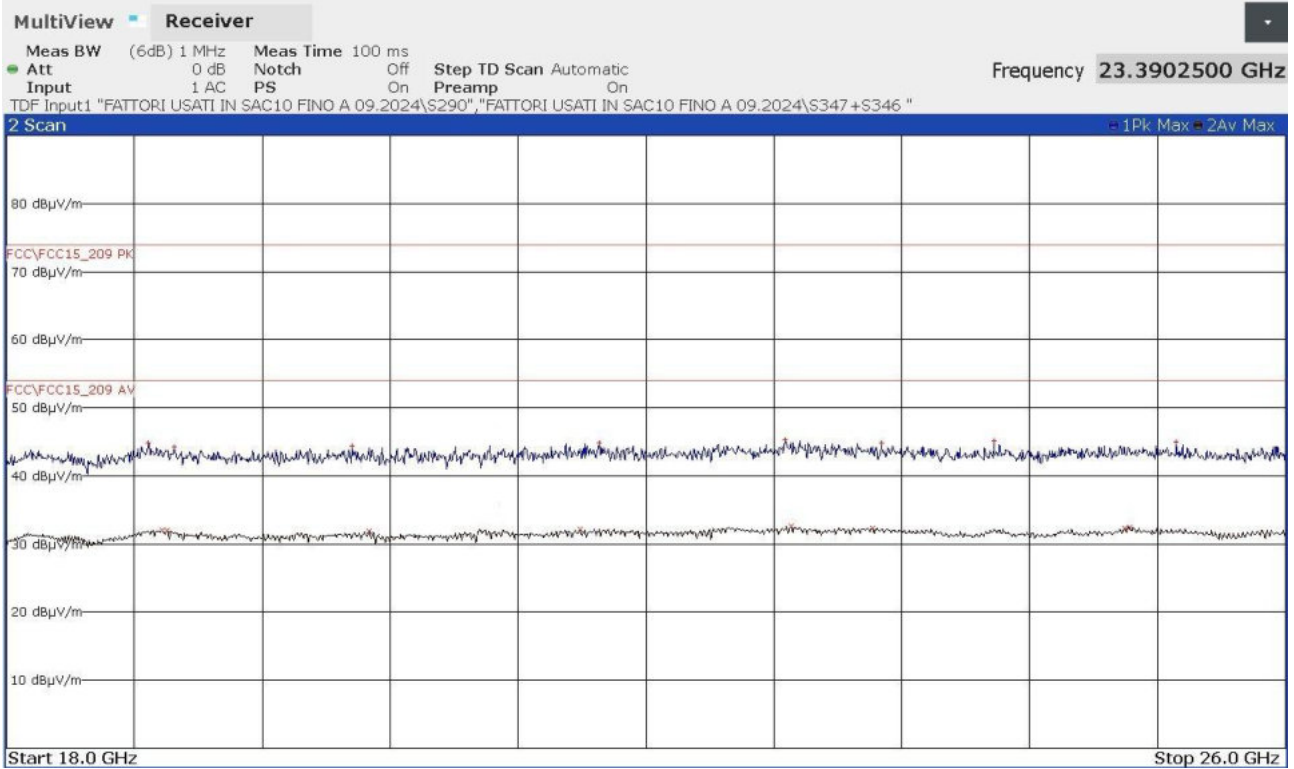
De Rosso-25153117



FINAL RESULT TABLE					
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18797750000	+44,69	-29,29	18965000000	+32,13	-21,85
19031750000	+45,12	-28,86	19004750000	+32,05	-21,93
20171250000	+44,50	-29,48	20265250000	+31,89	-22,09
21636250000	+44,92	-29,06	21638500000	+31,77	-22,21
22569750000	+45,68	-28,30	22906250000	+32,70	-21,28
23580750000	+45,45	-28,53	23416250000	+32,51	-21,47
24755500000	+45,15	-28,83	24997500000	+32,46	-21,52
25290750000	+44,67	-29,31	25015000000	+32,50	-21,48

25153117_2

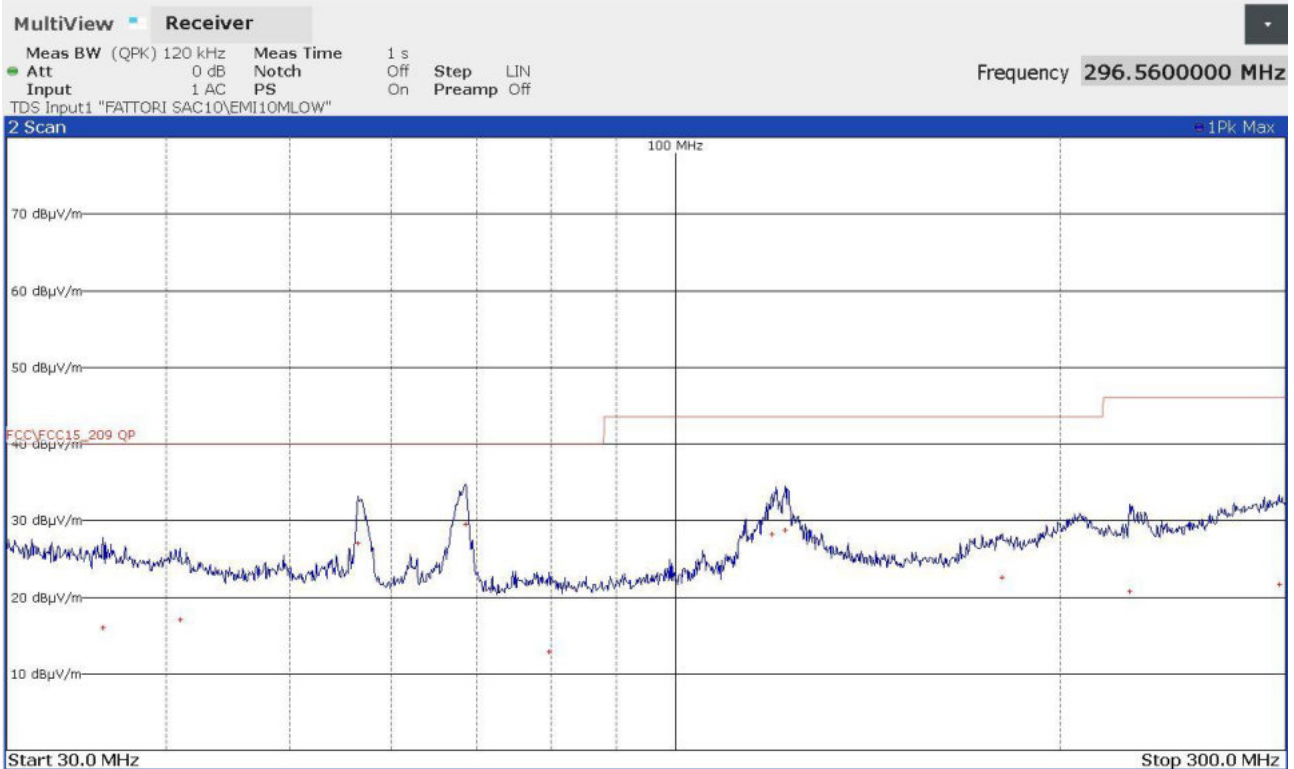
De Rosso-25153118



FINAL RESULT TABLE					
MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
18888500000	+44,88	-29,10	18977000000	+32,07	-21,91
19049500000	+44,30	-29,68	19003250000	+32,05	-21,93
20162250000	+44,44	-29,54	20268750000	+31,81	-22,17
21707000000	+44,82	-29,16	21587000000	+32,13	-21,85
22871000000	+45,36	-28,62	22909000000	+32,62	-21,36
23475500000	+44,85	-29,13	23417750000	+32,38	-21,60
24177500000	+45,13	-28,85	24996500000	+32,28	-21,70
25314500000	+45,02	-28,96	25023000000	+32,51	-21,47

25153118_2

De Rosso-25153119



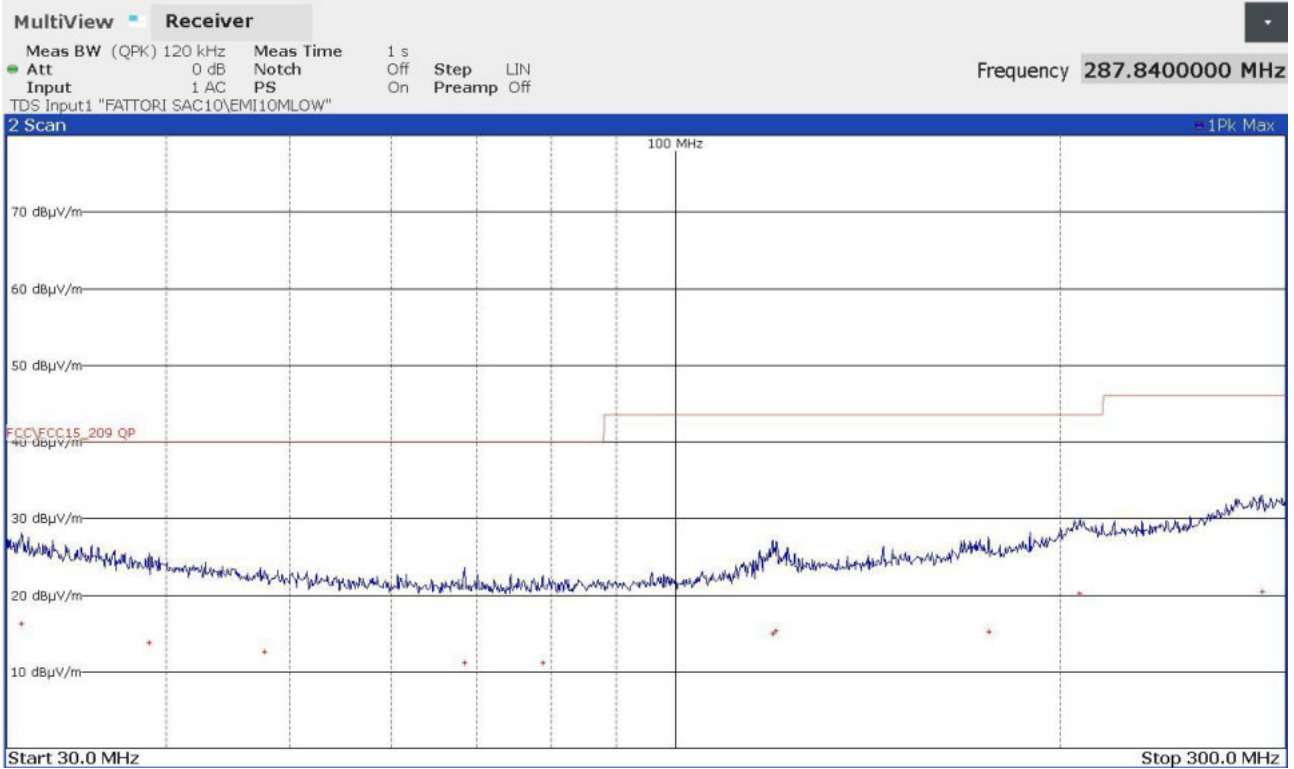
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
35680000	+15,98	-24,02
41000000	+17,05	-22,95
56480000	+27,01	-12,99
68560000	+29,49	-10,51
79680000	+12,90	-27,10
119120000	+28,21	-15,31
121960000	+28,74	-14,78
180000000	+22,51	-21,01
226840000	+20,66	-25,36
296560000	+21,60	-24,42

25153119_2

De Rosso-25153120



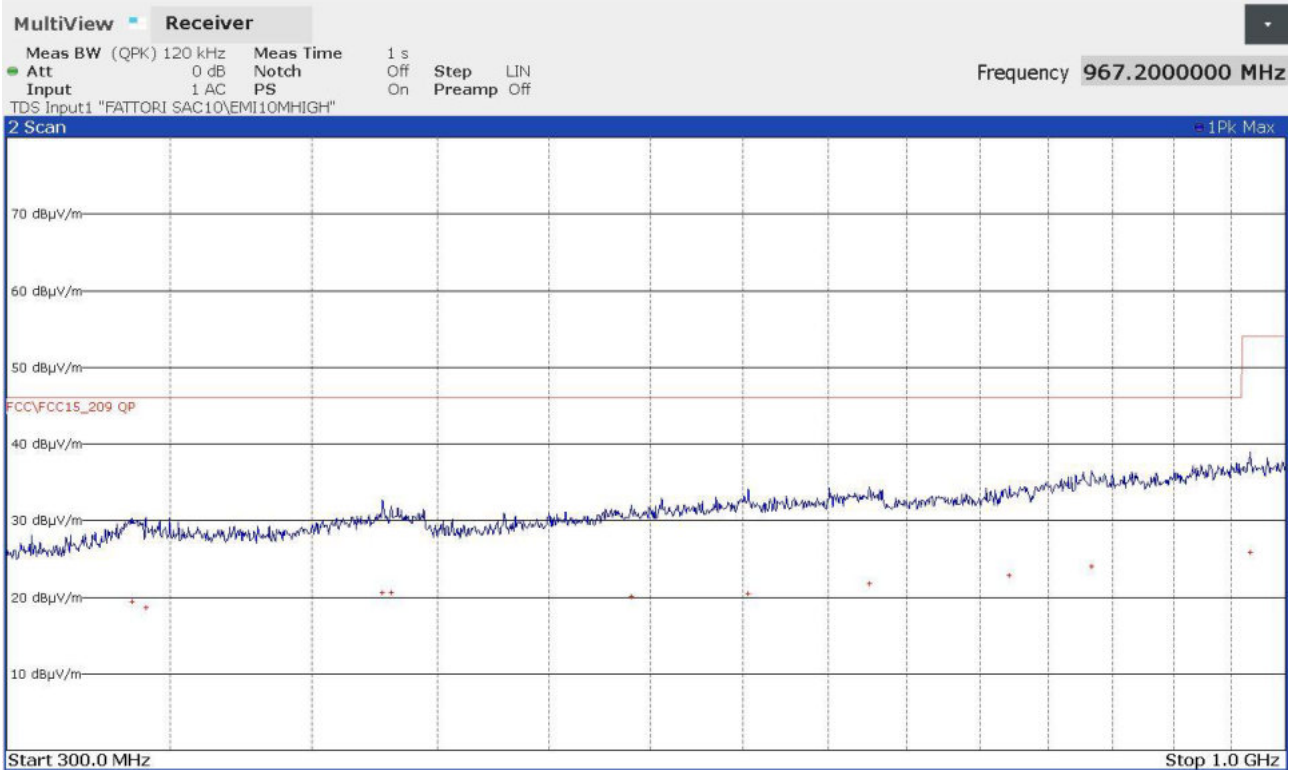
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30840000	+16,29	-23,71
38760000	+13,76	-26,24
47720000	+12,53	-27,47
68440000	+11,12	-28,88
78760000	+11,15	-28,85
119160000	+14,94	-28,58
120000000	+15,29	-28,23
175800000	+15,26	-28,26
207240000	+20,23	-23,29
287840000	+20,52	-25,50

25153120_2

De Rosso-25153121



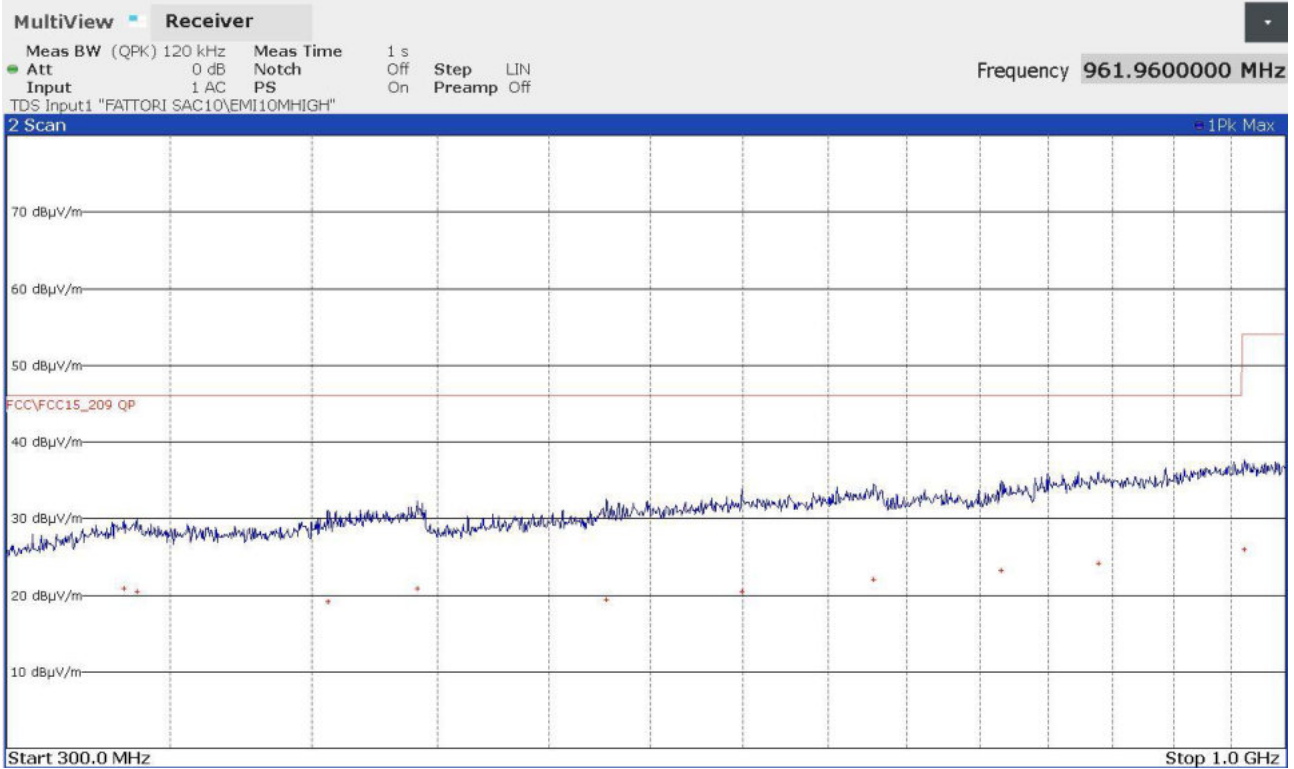
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
337520000	+19,41	-26,61
342000000	+18,65	-27,37
427480000	+20,64	-25,38
431000000	+20,58	-25,44
540240000	+20,01	-26,01
603160000	+20,47	-25,55
676080000	+21,80	-24,22
771120000	+22,87	-23,15
833000000	+24,06	-21,96
967200000	+25,82	-28,16

25153121_2

De Rosso-25153122



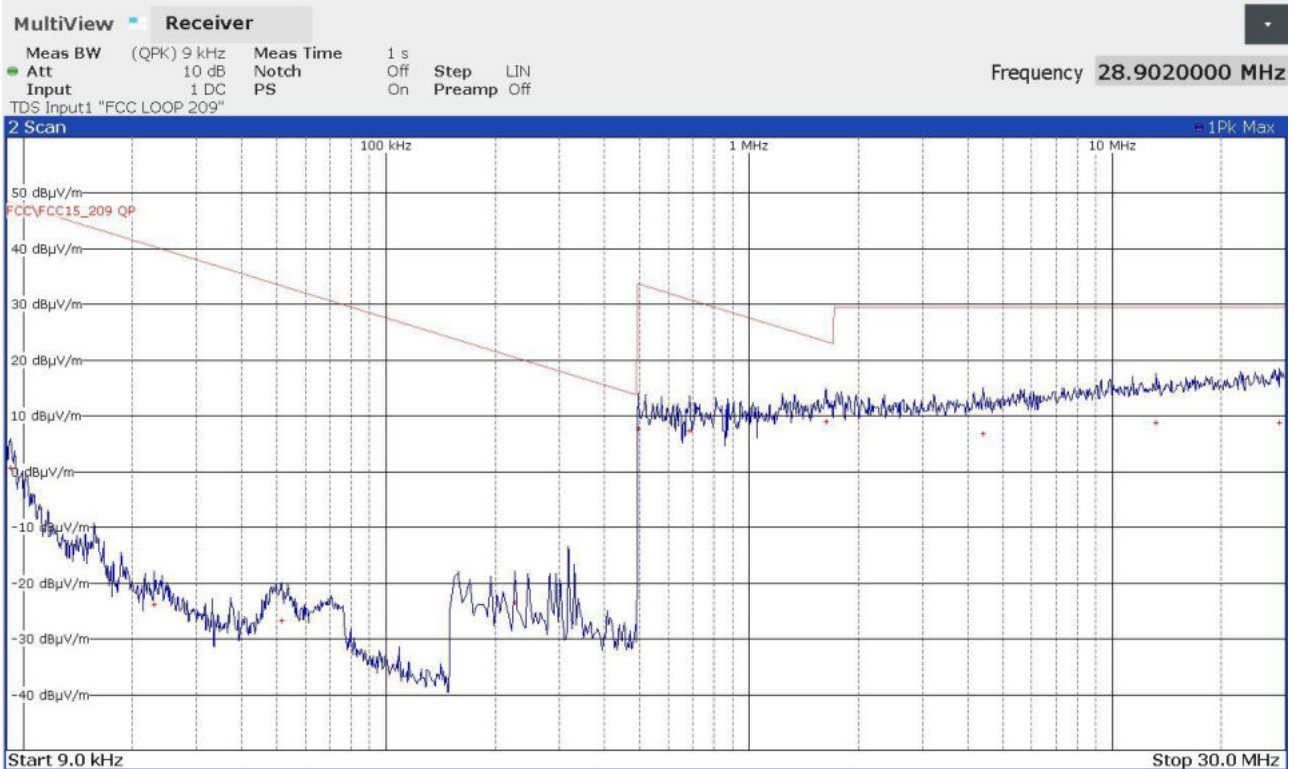
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
335000000	+20,84	-25,18
339120000	+20,40	-25,62
405840000	+19,17	-26,85
441720000	+20,83	-25,19
527840000	+19,47	-26,55
599440000	+20,40	-25,62
678440000	+21,98	-24,04
765000000	+23,18	-22,84
838360000	+24,07	-21,95
961960000	+25,91	-28,07

25153122_2

De Rosso-25153123



FINAL RESULT TABLE

MAX PEAK

Freq Hz	Lev dBuV/m	Margin dB
9240	+5,98	-42,31
23000	-17,82	-58,19
51480	-19,89	-53,26
226000	-17,89	-38,41
494000	+14,03	-19,70
686000	+13,65	-17,23
1626000	+14,73	-8,65
4406000	+15,05	-14,49
13182000	+17,61	-11,93
28902000	+18,47	-11,07

25153123_2

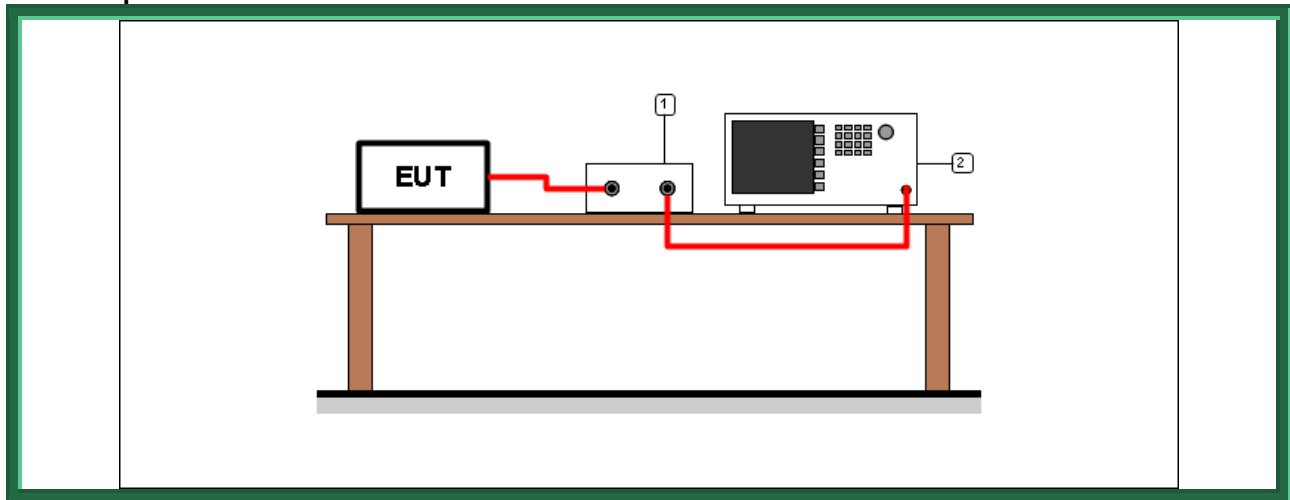
Fundamental emission output power

Tested by	M. Segalla
Test date	27.08.2025
Test location (stand)	Laboratory
Basic standard(s)	ANSI C63.10 cl. 11.9.1.1 KDB 558074 D01 DTS Meas Guidance v05r02 cl. 8.3.1.1
Product standard(s)	FCC Rules and Regulation; Titles 47 Part 15.247 (b) (3)
Supplementary test set-up description	--
Supplementary information	--

Acceptance limits

For systems using digital modulation in the 902 – 928 MHz, 2400 – 2483,5 MHz, and 5725 – 5850 MHz bands: 1 W.

Test setup



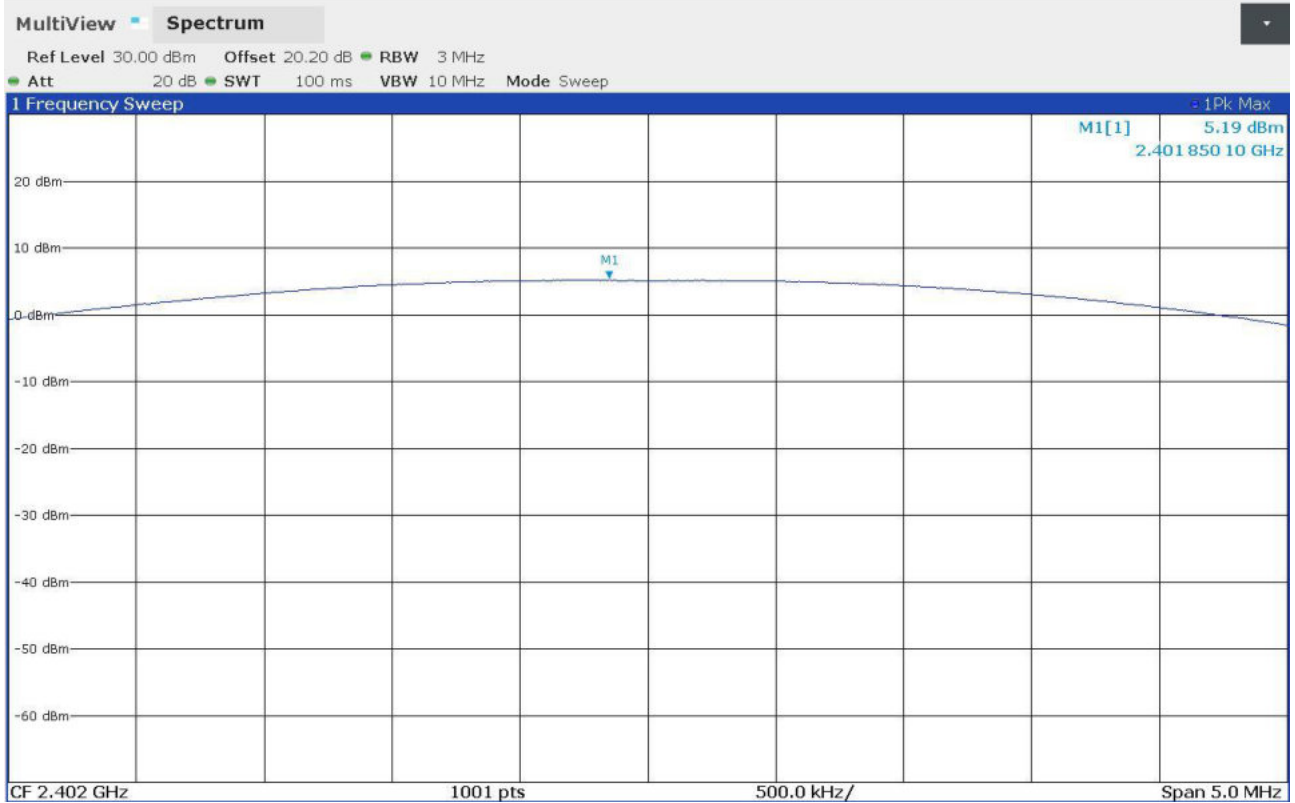
Test setup PR002_01							
Nr.	Id. Number	Manufacturer	Model	Serial number	Description	Last calibration date	Calibration expiration
2	CMC S295	Rohde & Schwarz	FSW43	104059	Spectrum Analyzer 43GHz	January 2024	January 2026
1	--	--	--	--	Cable + attenuator	Calibrated before the test	Calibrated before the test

Result

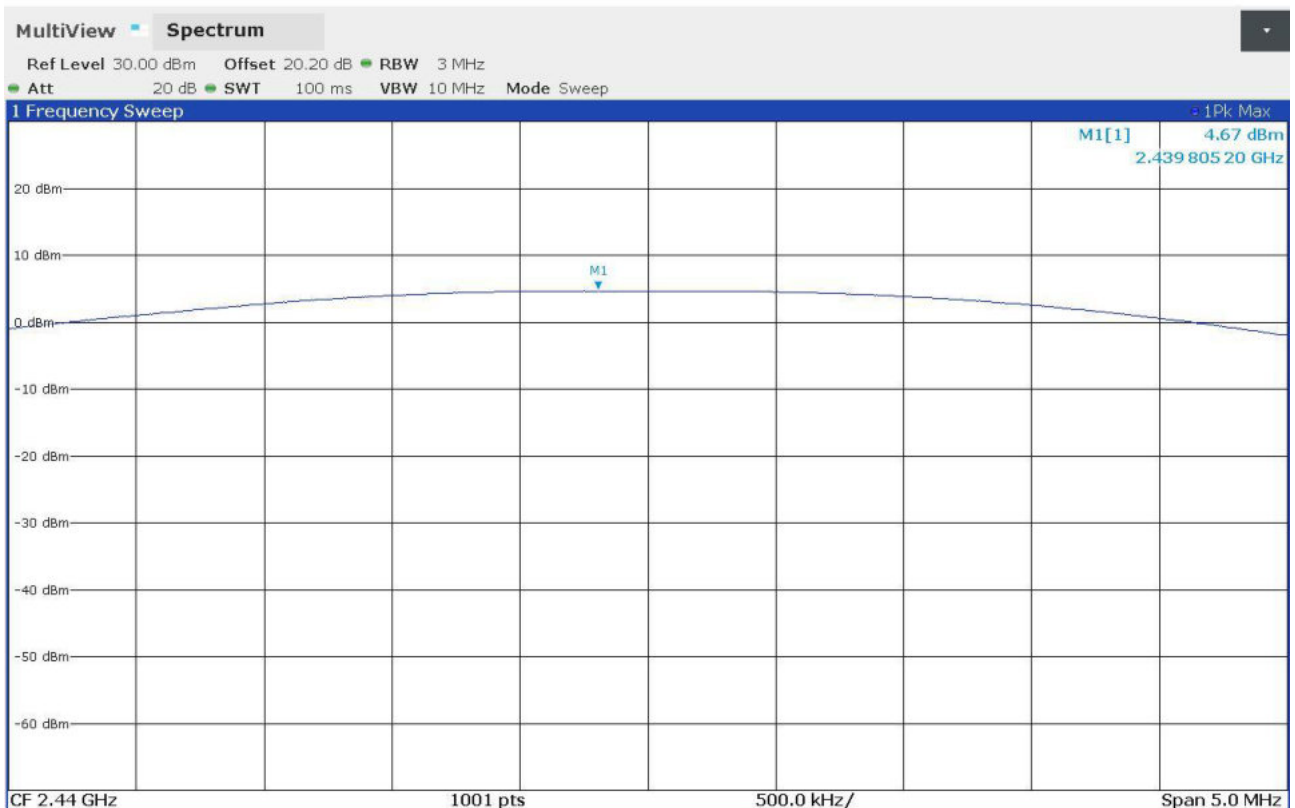
<i>Transmission frequency (MHz)</i>	<i>Graphs</i>	<i>Peak Output Power (dBm)</i>	<i>Peak Output Power (mW)</i>	<i>Limit (mW)</i>	<i>Verdict</i>
2402	25153126	5,19	3,30	1000	P
2440	25153127	4,67	2,93	1000	P
2480	25153128	4,36	2,73	1000	P

Graphs

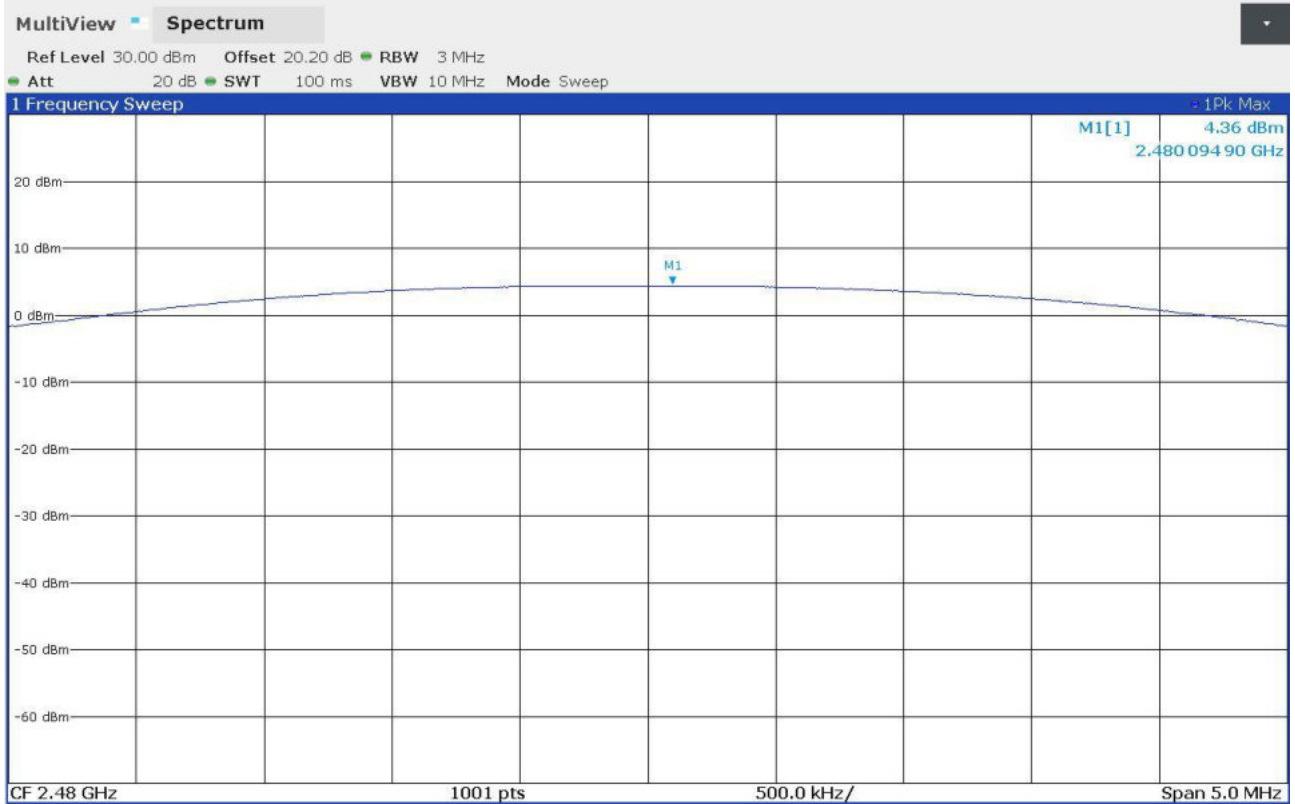
Segalla 25153126



Segalla 25153127



Segalla 25153128



Attachment 1

Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150 MHz	PE001_01	3,5 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_01	2,9 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30 MHz	PE001_02	2,2 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30 MHz	PE001_03	2,5 dB	1
Conducted emission CISPR 16 ISN 0,15-30 MHz	PE001_04	4,7 dB	1
Clic CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_05	2,9 dB	1
Radiated Emission CDNE 30-300 MHz	PE001_06	3,3 dB	1
Disturbance Power 30-300 MHz	PE002_X1	3,8 dB	1
Radiated Emission LAS 0,15-30 MHz	PE003_01	2,0 dB	1
Radiated Emission CISPR 16 Loop Ant. 0,15-30 MHz	PE004_X1	4,1 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_X2	4,7 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_X3	4,6 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_X4	4,7 dB	1
Human Exposure to electromagnetic fields	PE005_01	16,2 %	1
Harmonics	PE006_01	10 mA + 2,9 %	1
Flicker	PE007_01	3,40 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	2,43 dB 0,97 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,26 dB 0,47 V a 3V	1
AC Magnetic field	PE106_01	1,55 % 0,15 A/m a 10A/m	1
Pulse Magnetic field	PE107_01	6,21 % 18,6 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,21 % 1,86 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,11 % 0,21 V a 10V	1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_X1	4,1 dB	1
Power/Spurious ERP 30-1000MHz d=10m/3m	PR001_X2+X3	4,8 dB	1
Misura della potenza EIRP 1-18GHz d=3m	PR001_X4+X5	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_X6	5,1 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
Ring Wave immunity test	PE110_01		2
Low frequency immunity test	PE111_01		2
Dumped Oscillatory immunity test	PE113_01		2
Rev_25_01 date 26/02/2025			

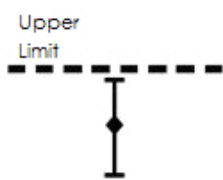
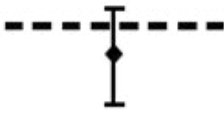
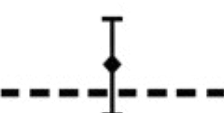
Note 1:

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 $k=2$

Judgement of compliance

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

In agreement with ILAC-G8:09/2019 cl.4.2.1 Guidelines on Decision Rules and Statements of Conformity

Quality manual references – Internal procedure

Internal Procedure PM001 rev. 4.1 (Quality Manual)	Measure procedure
Internal Procedure INC_M rev. 10.1 (Quality Manual)	Measurement uncertainty calculation