



TEST REPORT Nr. R21035401

Federal Communication Commission (FCC)

Report Reference No.	R21035401
Date of issue:	29.03.2021
Total number pages:	30
Applicant's name	Autec S.r.l.
Address	Via Pomaroli, 65 – 36030 Caldogno (VI) – Italy
Test specification:	
Standards	FCC Rules & Regulations, Title 47:2019 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 225
Non-standard test method	N/A
Test Report Form No.	15_225CMC
Test Report Form(s) Originator ..	CMC Centro Misure Compatibilità S.r.l.
Master TRF	2021-02
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of CMC Centro Misure Compatibilità S.r.l.	
Test item description	Transceiver unit
Trademark	Autec
Manufacturer	Autec S.r.l.
Model / Type reference	Model LKN Type DF2NH
FCC ID	OQA-LKNDF2NH
Rating(s)	3,7 Vdc from battery
Report	
Tested by (name + signature)	M. Segalla
Approved by (name + signature)	R. Beghetto

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2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2019	--
3 List of attachments	
Attachment 1: Instruments list, measurement uncertainty, judgement of compliance and quality manual references	
4 Deviation(s) from test specification	
None	
5 Testing location	
CMC Centro Misure Compatibilità S.r.l. Via della Fisica, 20 – 36016 Thiene (VI) – Italy Test site facility's FCC registration number: 182474	

Revision index	Date	Change history
1.0	29.03.2021	--

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Testing and sampling:	
Date of receipt of test item	16.02.2021
Testing start date	16.02.2021
Testing end date	29.03.2021
Sampling procedure.....	Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion. The results relate to the sample as it has been received.
Internal identification.....	Adhesive label with the product number P210180
General remarks:	
<p>This 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 object tested. “(see appended table)”: refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.</p>	
Possible test case verdicts:	
Test case does not apply to the test object:	N/A (Not Applicable)
Test object does meet the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
Test object does not performed:	N/E (Not Executed)
Definition of symbols used in this test report:	
<input checked="" type="checkbox"/> Indicates that the listed condition, standard or equipment is applicable for this report. <input type="checkbox"/> Indicates that the listed condition, standard or equipment is not applicable for this report.	

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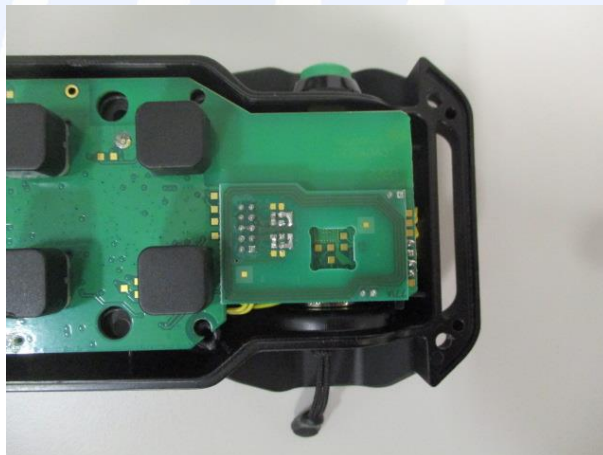
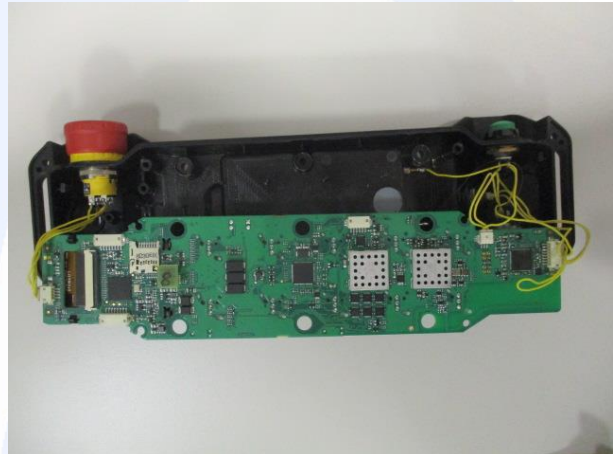
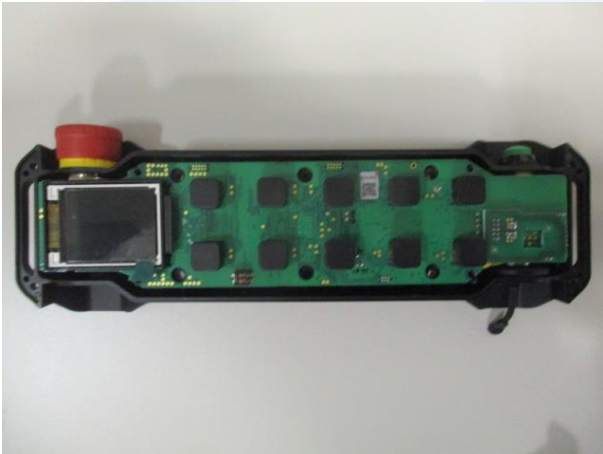
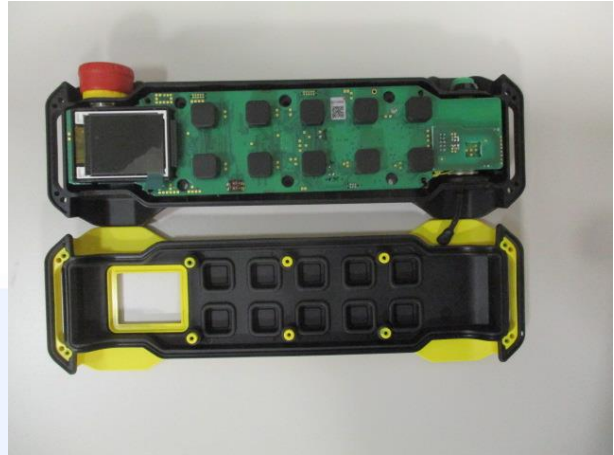


6 General description of tested item and testing condition(s)

Description	Transceiver unit					
Model Number	Model LKN Type DF2NH					
FCC ID	OQA-LKNDF2NH					
Serial Number	--					
Brand name	Autec					
Nominal frequency	13,56 MHz					
Test power supply	Voltage and Frequency	Reference poles				
		N	L1	L2	L3	PE
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	DC: 3,7 V from battery				<input type="checkbox"/>	
Test configuration	<input type="checkbox"/>	Table top equipment				
	<input type="checkbox"/>	Floor standing equipment				
	<input checked="" type="checkbox"/>	Hand-held equipment				
Type of equipment	<input checked="" type="checkbox"/>	Transmitter unit				
	<input checked="" type="checkbox"/>	Receiver unit				
Type of station	<input checked="" type="checkbox"/>	Portable station				
	<input type="checkbox"/>	Mobile station				
Operating modes	No.	Operating mode of test item				
	1	TX mode, continuous transmission at 13,56 MHz				
Declination of responsibility	<p>Components list and software/hardware version (if reported) are provided by the manufacturer. CMC Centro Misure Compatibilità S.r.l. cannot be considered responsible for these information, for any other document sent by the manufacturer and for any difference between the software version present in the tested sample and that present in the object intended for final sale.</p> <p>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.</p>					



6.1 Photos of the test item



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7 Verdict summary section

FCC Rules & Regulations, Title 47:2019			
Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 225			
Clause	Requirement – Test case	Basic standard	Verdict
Part 15.203	Antenna requirements	--	P
Part 15.207	Conducted emissions	ANSI C63.10	N/A (+)
Part 15.209	Radiated emissions	ANSI C63.10	P
Part 15.225	Field strength with the assigned band	ANSI C63.10	P
Part 15.225 (e)	Frequency tolerance	ANSI C63.10	P
Part 15.215	20 dB bandwidth	ANSI C63.10	P

(+) Devices which only employ battery power. See FCC Part 15.207 (c)



Normative references	
Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2019	--
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





8 Test conditions

8.1 General

Environmental reference 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.		
Measurement uncertainties	Attachment 1		



9 Test results

9.1 Antenna requirements

Tested by	M. Segalla	
Test date	16.02.2021	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification	<p>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</p>	
Antenna type.....	<input checked="" type="checkbox"/>	Integral antenna
	<input type="checkbox"/>	External antenna
Antenna gain.....	≤ 2 dBi	
External R.F. power amplifier	Not Present	



9.2 Radiated emissions

Tested by	M. Segalla	
Test date	16.02.2021	
Test location (stand)	Semi-anechoic chamber (CMC A070)	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.209 ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6	
Test set-up description	<input checked="" type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input type="checkbox"/>	Floor standing equipment set-up (insulating material up to 12 mm thick)
	<input type="checkbox"/>	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	SAC with measurement distance [m]: 10	
Supplementary information.....	According to KDB 414788 D01 chapter 2, emissions at frequencies below 30 MHz have been evaluated on 10 m SAC test site. As demonstrated on document "Test site correlation" date 28.03.2019, results of tests on SAC10 are slightly higher than the results of tests on OATS test site. The evaluation has been performed at both 10 and 3 m distance and at both 125 kHz and 13,56 MHz frequency	

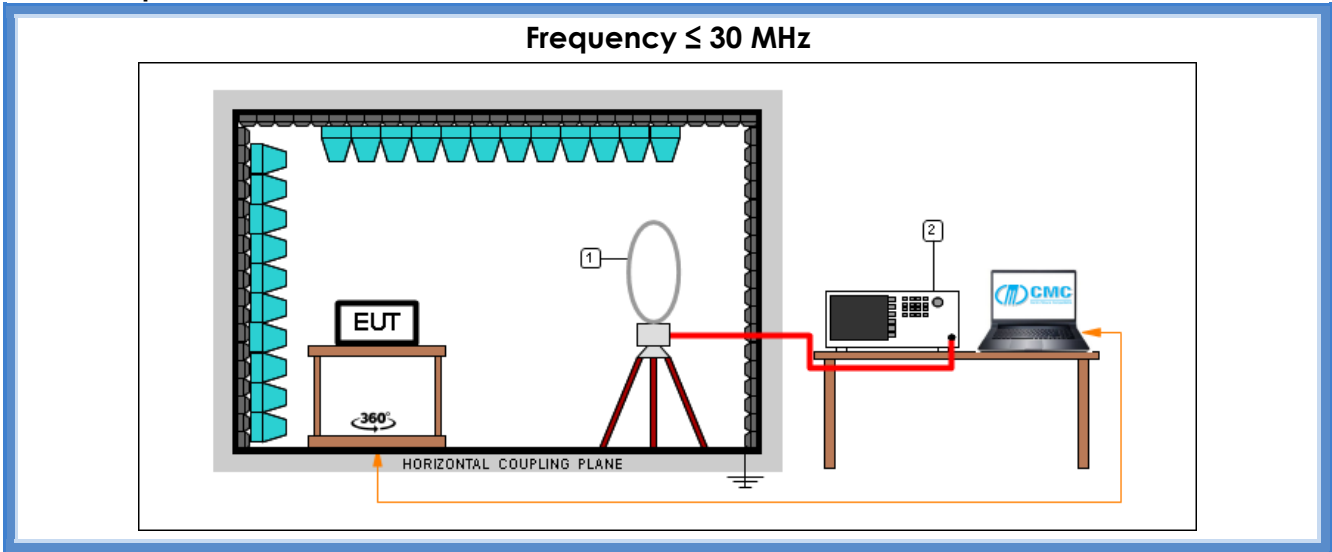
Acceptance limits

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
960 to 1000	3	54

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 results have been extrapolated to the specified distance using an extrapolation factor

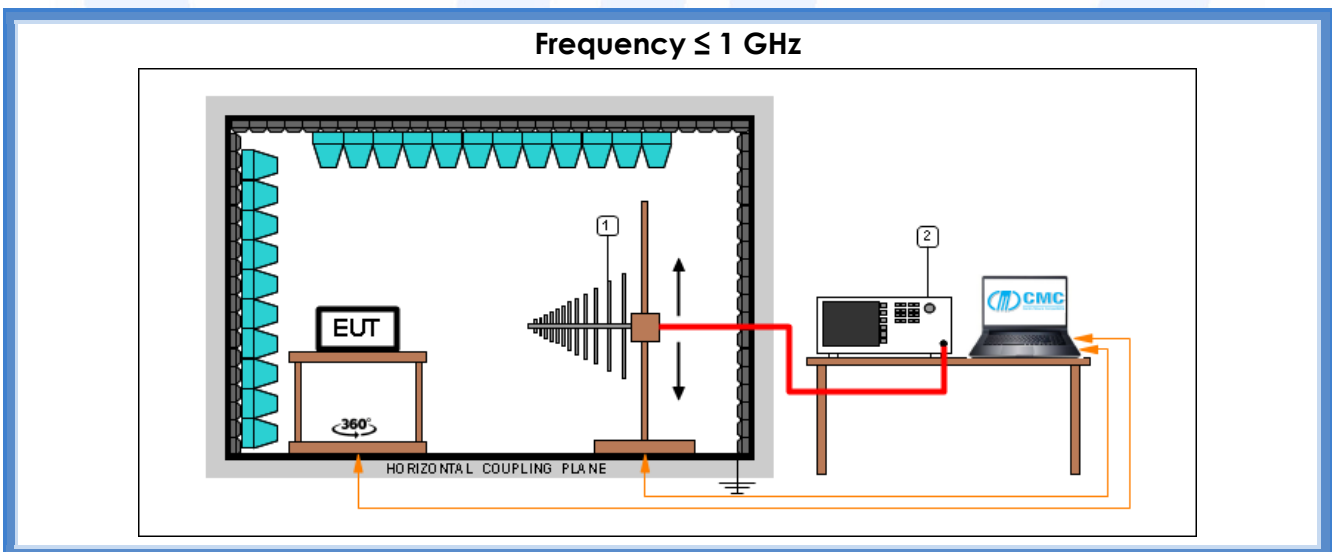
Frequency (MHz)	Test distance (m)	AV limits [dB(µV/m)]	Peak limits [dB(µV/m)]
> 1000	3	54	74

Test setup



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S127	Schaffner	HLA6120	Loop Antenna 9kHz - 30MHz



Test setup PE004_02

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Broadband Antenna

Test setup PE004_03

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S287	Schwarzbeck	VUSLP 9111B	Broadband Antenna



Result

<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Remarks</i>	<i>Result</i>
Loop	0,009 – 30	G21035405	--	P
V	30 – 300	G21035407	--	P
H	30 – 300	G21035408	--	P
H	300 – 1000	G21035409	--	P
V	300 – 1000	G21035410	--	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

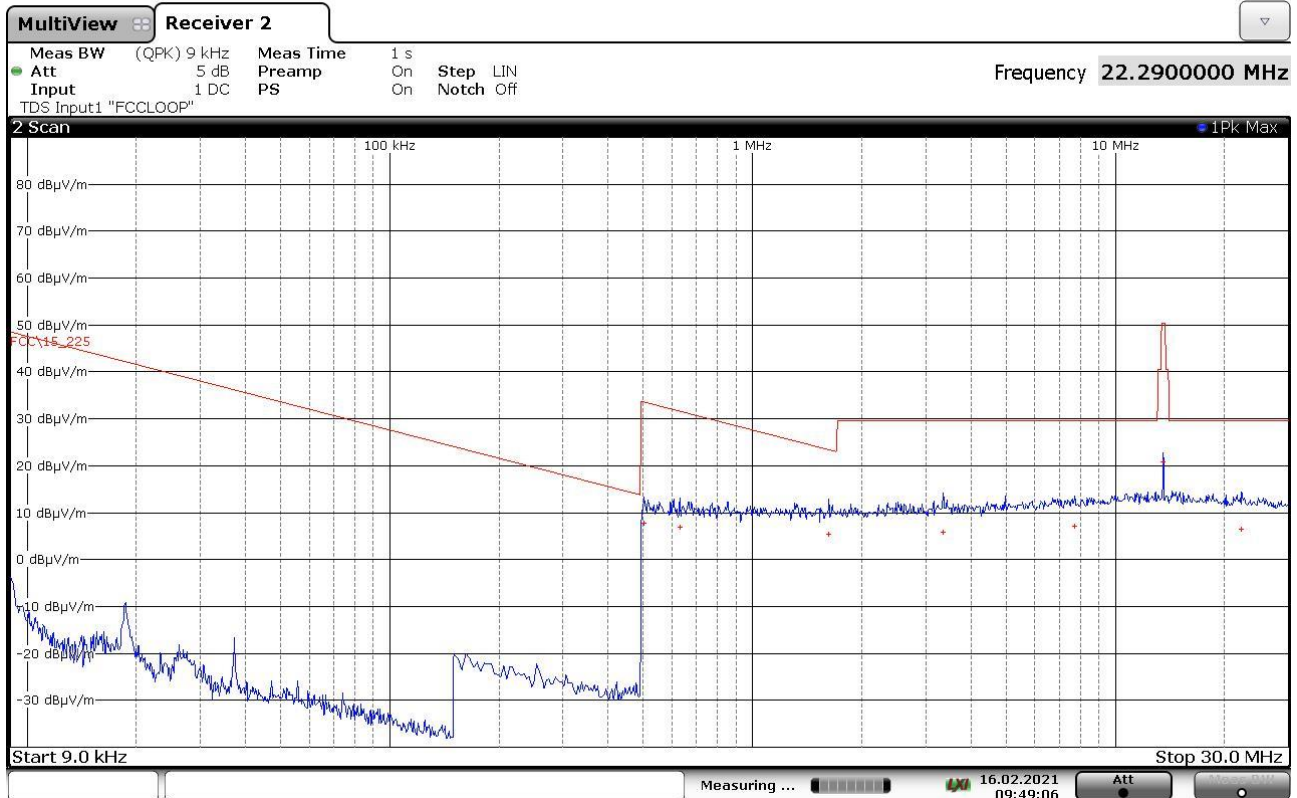
PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +
 AV: Average; AV [1s] (average at 1 second) values are marked with a X

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Graphs

Segalla 21035405



FINAL RESULT TABLE

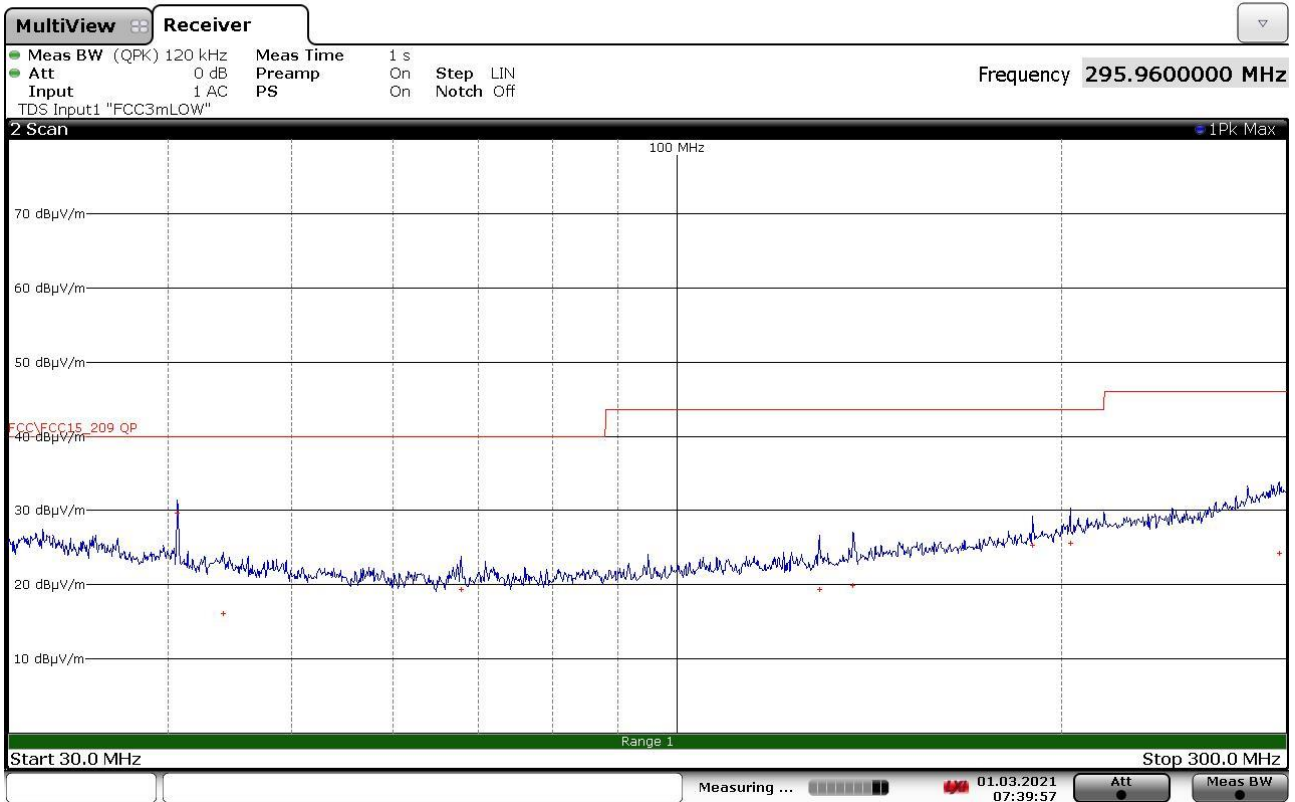
QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
502000	+7,86	-25,73
630000	+6,95	-24,67
1622000	+5,51	-17,89
3358000	+5,91	-23,63
7742000	+7,02	-22,52
13562000	+20,88	-63,12
22290000	+6,56	-22,98

21035405_2

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Segalla 21035407



FINAL RESULT TABLE

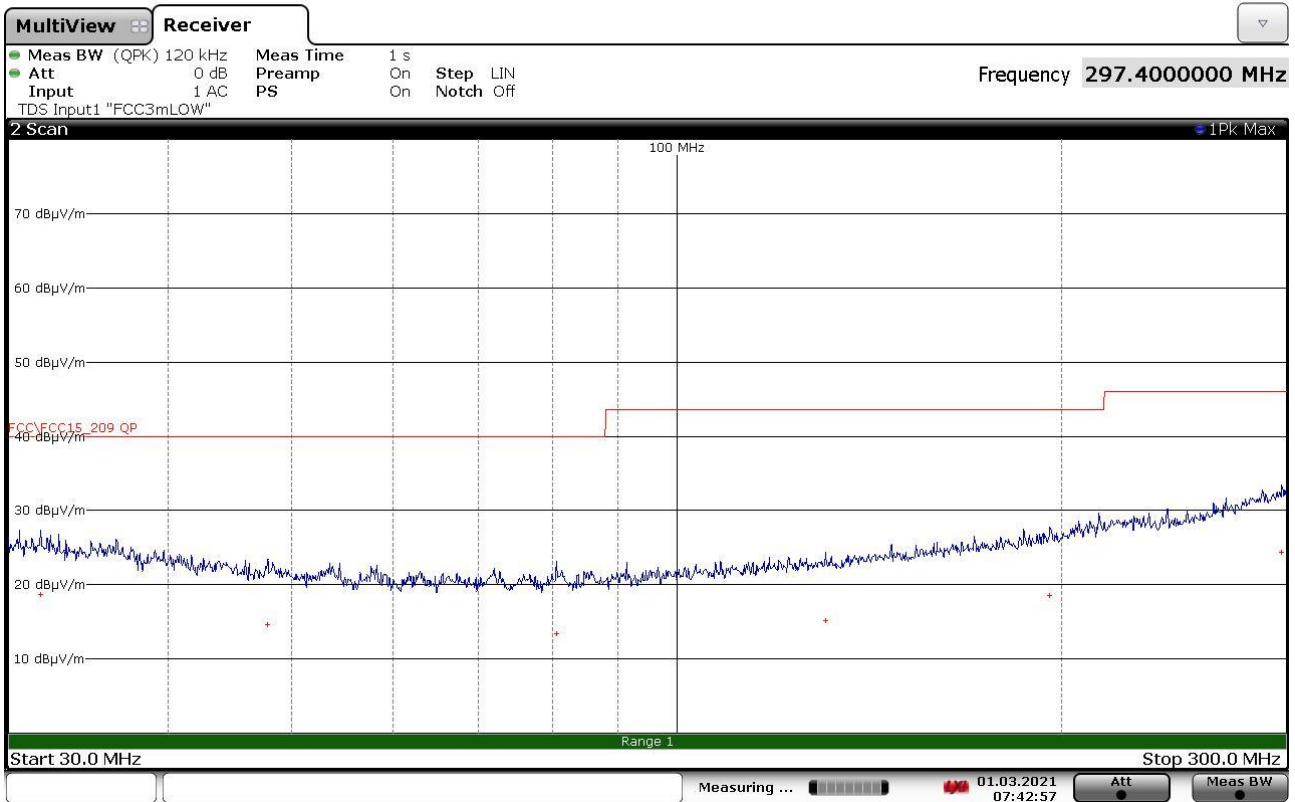
QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
40680000	+29,58	-10,42
44160000	+16,08	-23,92
67800000	+19,31	-20,69
129320000	+19,37	-24,15
137440000	+19,91	-23,61
189840000	+25,30	-18,22
203400000	+25,53	-17,99
295960000	+24,21	-21,81

21035407_2

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Segalla 21035408



FINAL RESULT TABLE

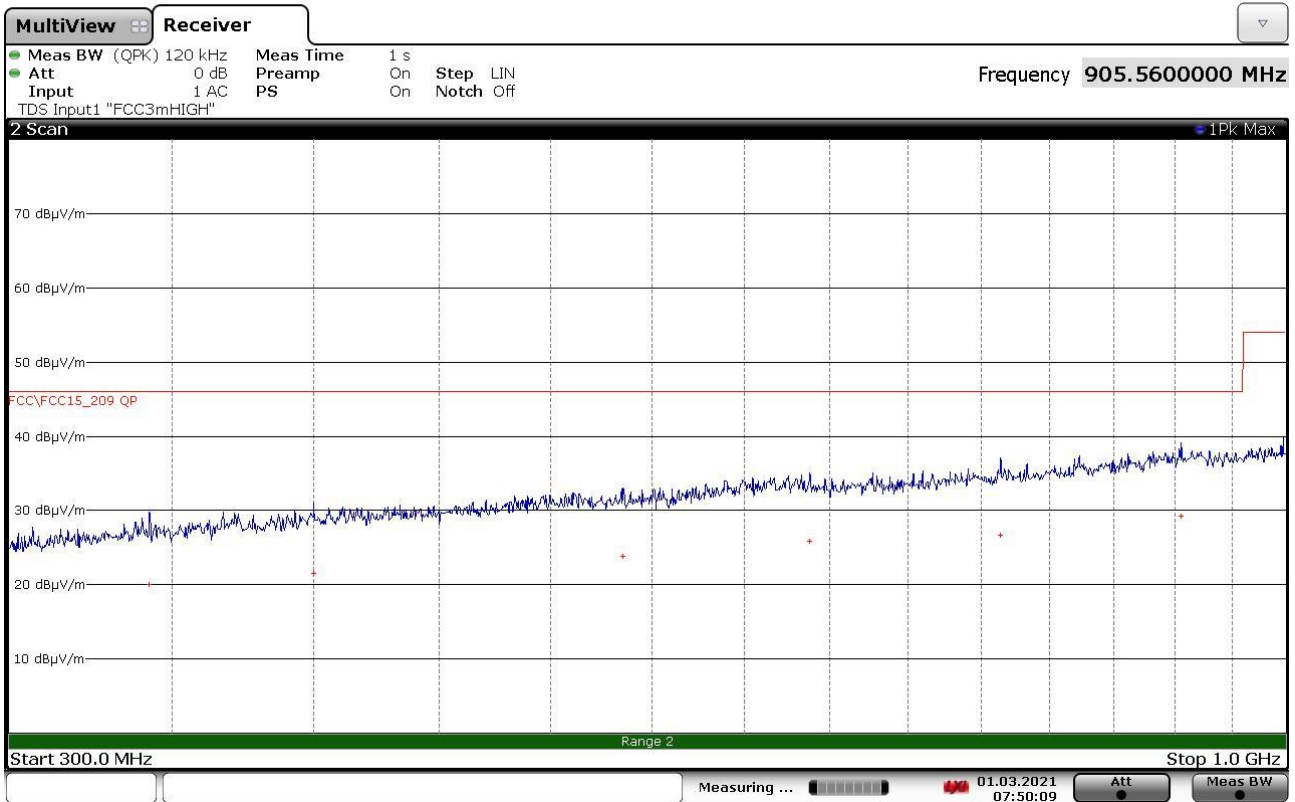
QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
31800000	+18,66	-21,34
47880000	+14,64	-25,36
80520000	+13,39	-26,61
130760000	+15,17	-28,35
195920000	+18,49	-25,03
297400000	+24,30	-21,72

21035408_2

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Segalla 21035409



FINAL RESULT TABLE

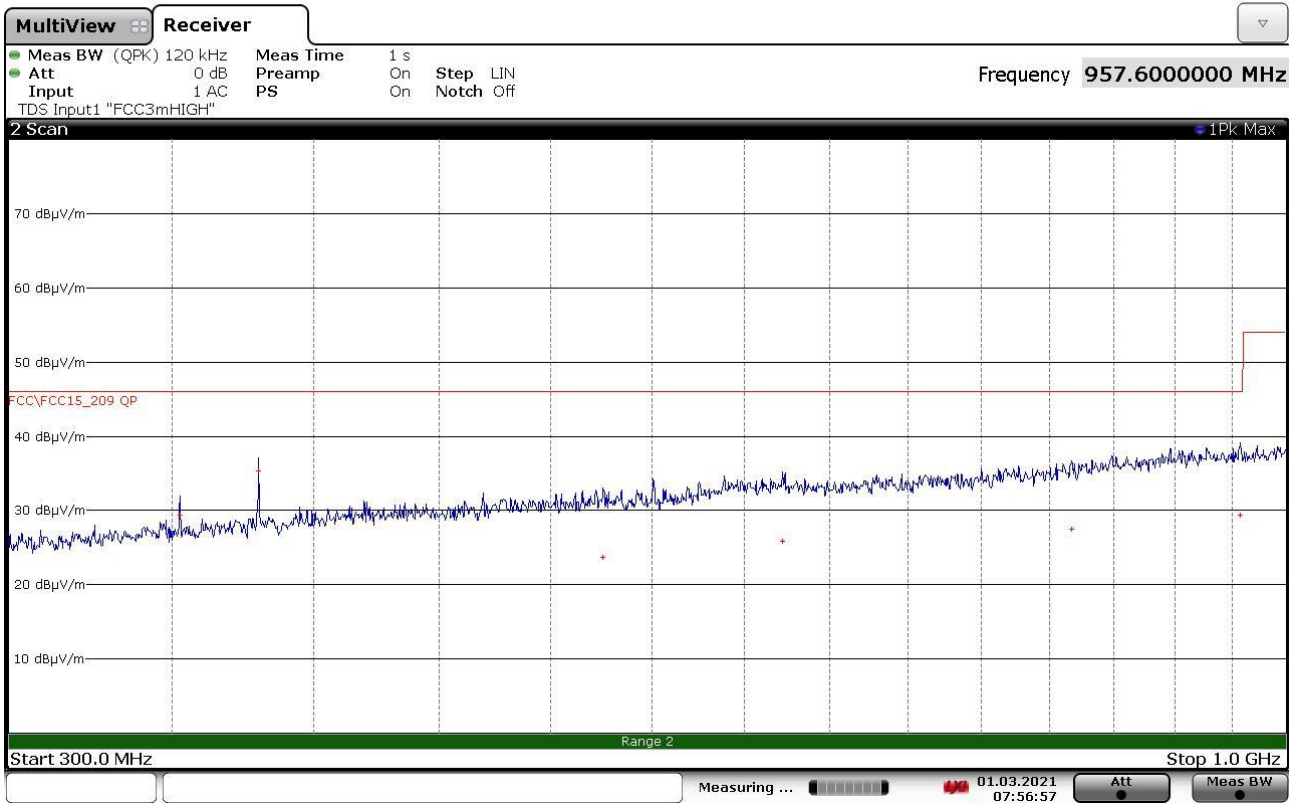
QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
342600000	+19,98	-26,04
399960000	+21,52	-24,50
535400000	+23,82	-22,20
638360000	+25,91	-20,11
764040000	+26,67	-19,35
905560000	+29,24	-16,78

21035409_2

CMC Centro Misure Compatibilità S.r.l.



Segalla 21035410



FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
352560000	+29,41	-16,61
379680000	+35,37	-10,65
525160000	+23,71	-22,31
622040000	+25,82	-20,20
816960000	+27,52	-18,50
957600000	+29,43	-16,59

21035410_2

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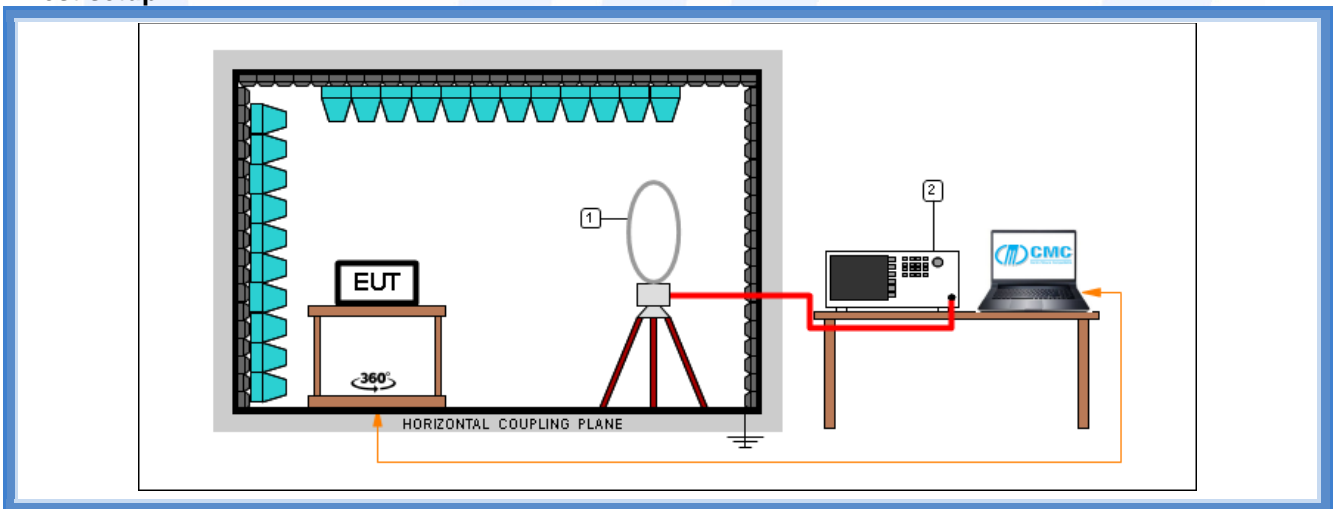
9.3 Field strength with the assigned band

Tested by	M. Segalla
Test date	06.05.2020
Test location (stand)	Semi-anechoic chamber (CMC A070)
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.209 and 15.225 ANSI C63.10
Supplementary test set-up description	EUT – antenna distance: 10 m
Supplementary information.....	--

Acceptance limits

- The field strength of any emissions within the band 13,553 – 13,567 MHz shall not exceed 15,848 microvolts/meter at 30 meters
- Within the bands 13,410 – 13,553 MHz and 13,567 – 13,710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters
- Within the bands 13,110 – 13,410 MHz and 13,710 – 14,010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters
- The field strength of any emissions appearing outside of the 13,110 – 14,010 MHz band shall not exceed the general radiated emission limits in §15.209

Test setup



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S127	Schaffner	HLA6120	Loop Antenna 9kHz - 30MHz



Result

Frequency band (MHz)	Graphs	Measured level (dB μ V/m)	Limit (dB μ V/m)
13,553 – 13,567	G21036502	22,08	84,00
	G21036503		

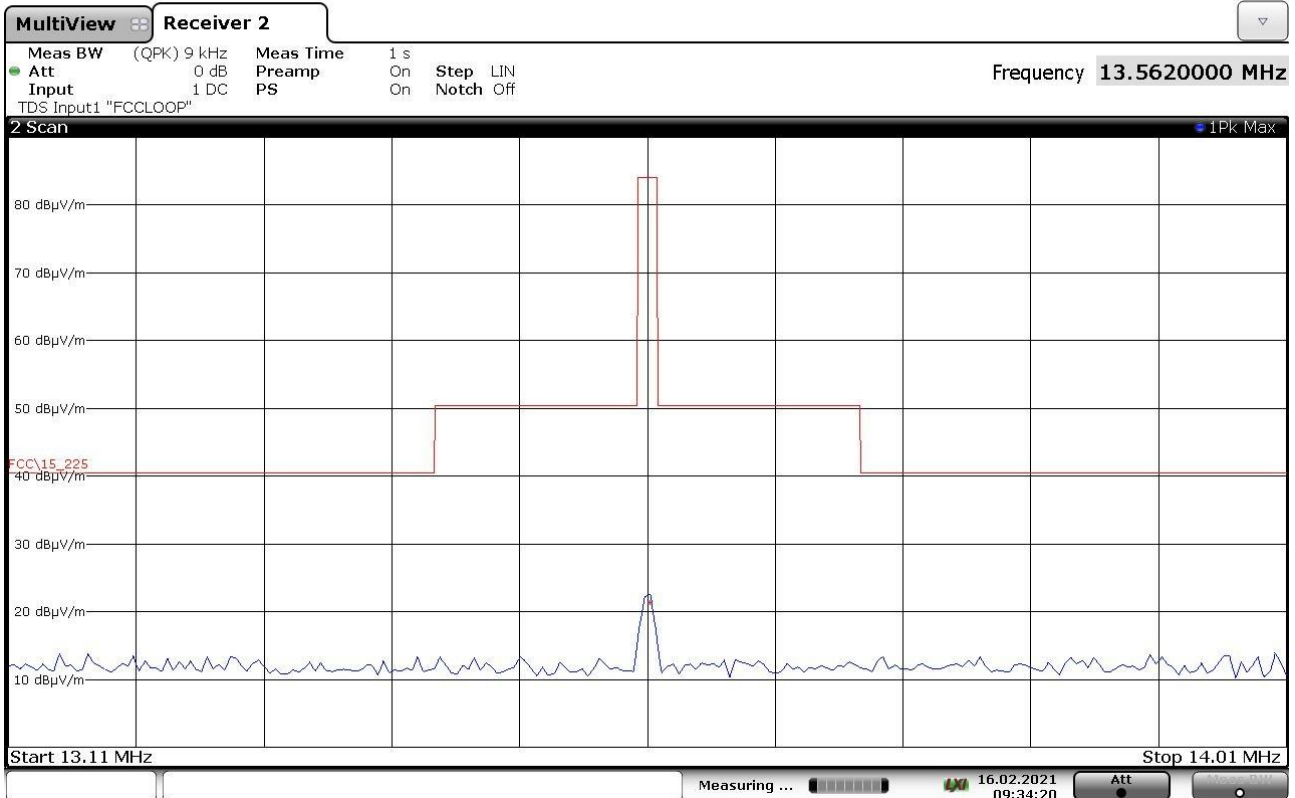
Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based on the measuring distance provided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





Graphs

Segalla 21035402



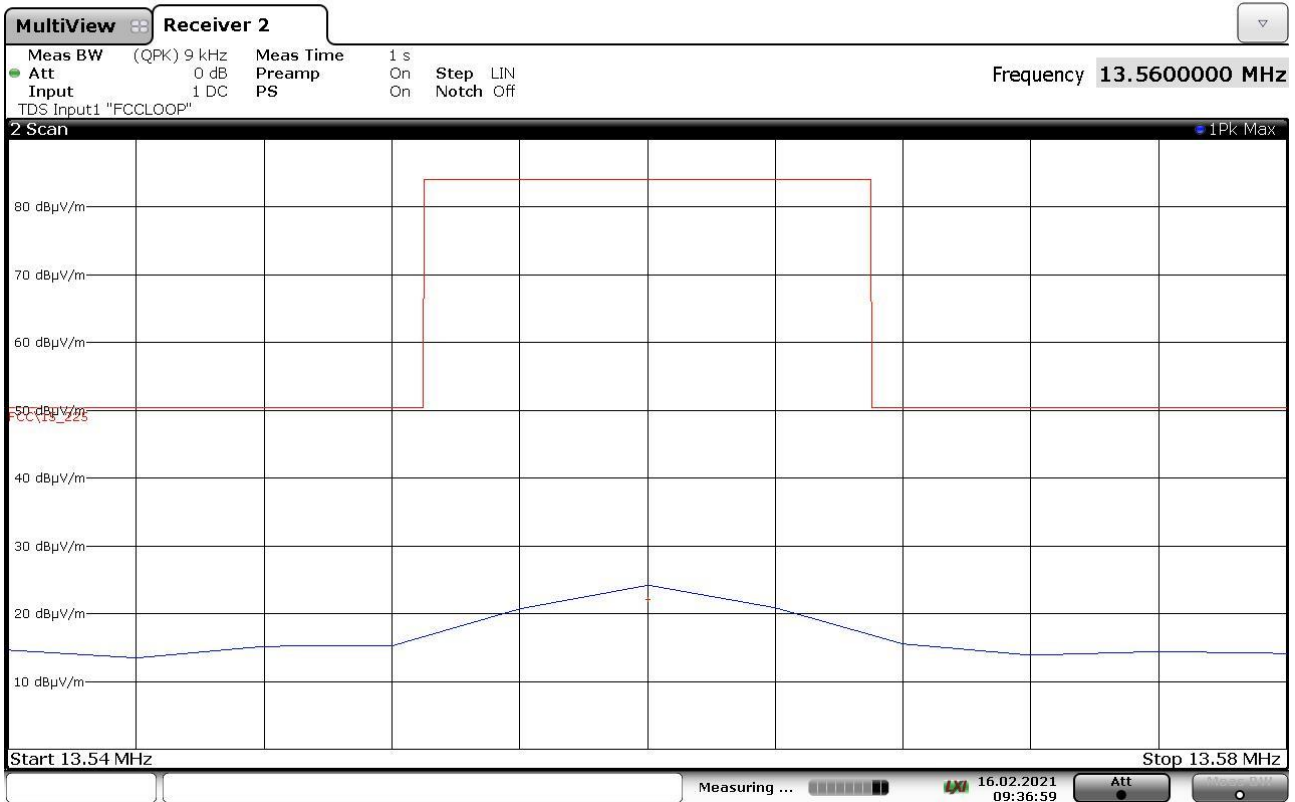
FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
13562000	+21,96	-62,04

21035402_2



Segalla 21035403



FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
13560000	+22,08	-61,92

21035403_2

CMC Centro Misure Compatibilità S.r.l.

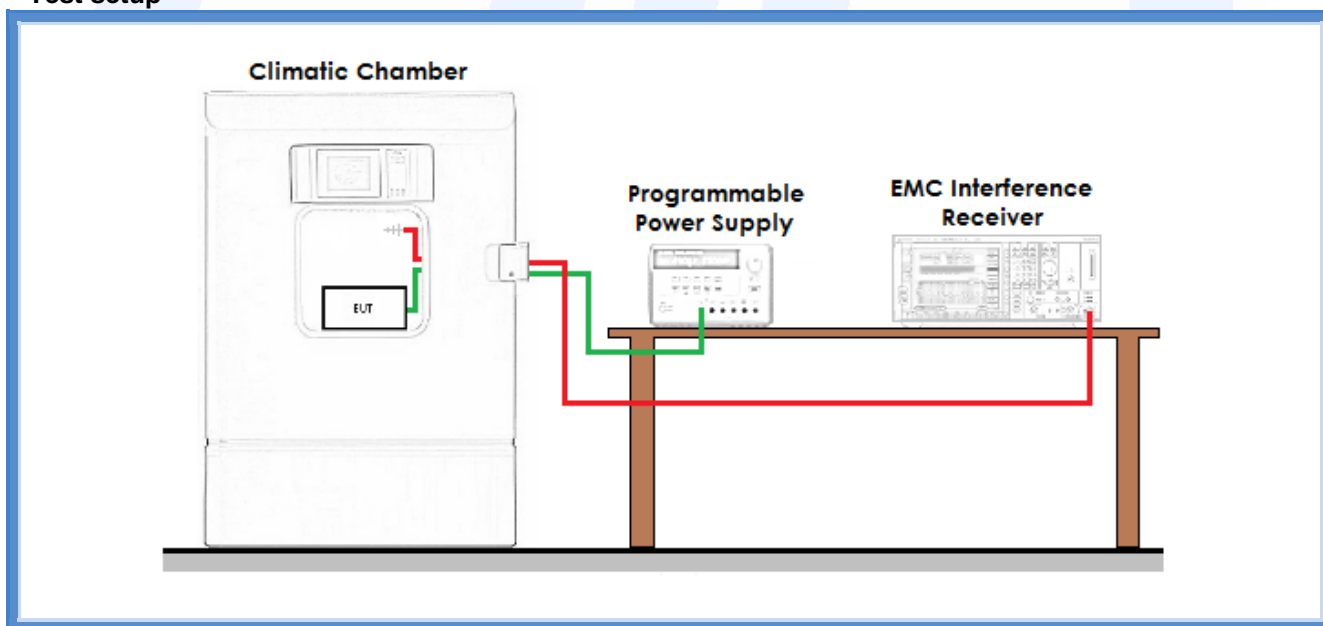
9.4 Frequency tolerance

Tested by	M. Segalla
Test date	26.05.2020
Test location (stand)	Climatic chamber (CMC B069)
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.225 e) ANSI C63.10
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

The frequency tolerance of the carrier signal shall be maintained within $\pm 0,01\%$ of the operating frequency over a temperature variation of $-20\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of $20\text{ }^{\circ}\text{C}$. For battery operated equipment, the equipment tests shall be performed using a new battery

Test setup



<i>Id. Number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>
CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
CMC B069	Angelantoni	CH 600C	Climatic chamber



Result

Test conditions		Measured frequency (MHz)	Frequency limits (MHz)
Temperature (°C)	Voltage level (V)		
-20	Nominal supply voltage	13,560056	13,55864 – 13,56136
-10	Nominal supply voltage	13,560056	13,55864 – 13,56136
0	Nominal supply voltage	13,560042	13,55864 – 13,56136
10	Nominal supply voltage	13,560030	13,55864 – 13,56136
20	Nominal supply voltage	13,560028	13,55864 – 13,56136
30	Nominal supply voltage	13,560030	13,55864 – 13,56136
40	Nominal supply voltage	13,560006	13,55864 – 13,56136
50	Nominal supply voltage	13,559968	13,55864 – 13,56136

Temperature (°C)	Test conditions		Measured frequency (MHz)	Frequency limits (MHz)
	Voltage level (%)	Voltage level (V)		
20	85	3,145	13,560028	13,55864 – 13,56136
20	90	3,33	13,560028	13,55864 – 13,56136
20	95	3,515	13,560028	13,55864 – 13,56136
20	100	3,70	13,560028	13,55864 – 13,56136
20	105	3,885	13,560028	13,55864 – 13,56136
20	110	4,07	13,560028	13,55864 – 13,56136
20	115	4,255	13,560028	13,55864 – 13,56136

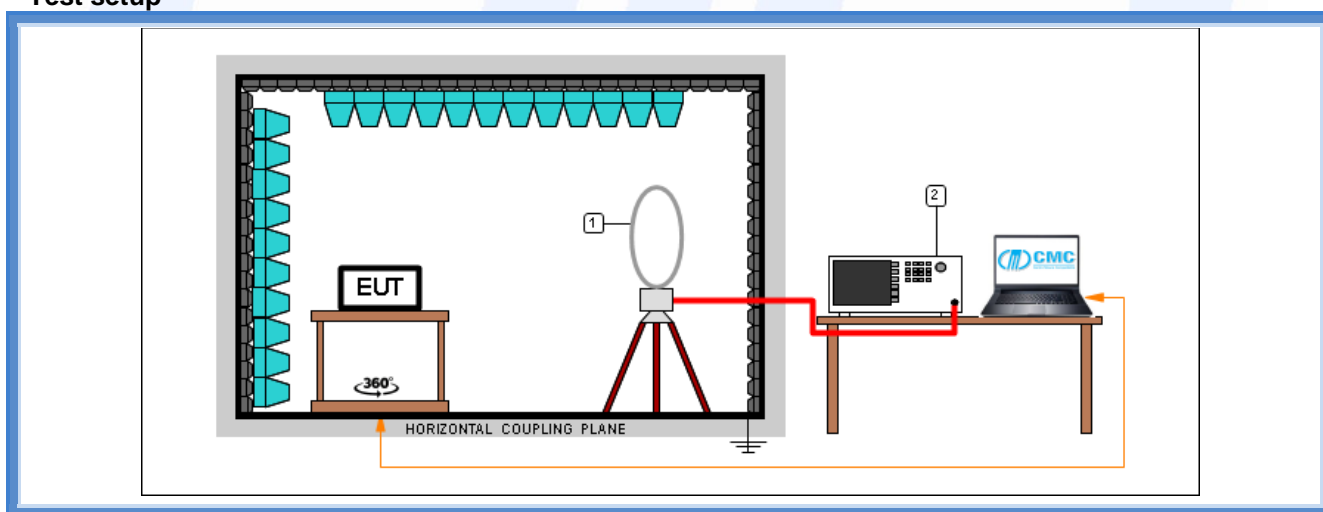
9.5 20 dB bandwidth

Tested by	M. Segalla
Test date	16.02.2021
Test location (stand)	Semi-anechoic chamber (CMC A070)
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.215 ANSI C63.10 cl. 7.8.7
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

Test setup



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S127	Schaffner	HLA6120	Loop Antenna 9kHz - 30MHz

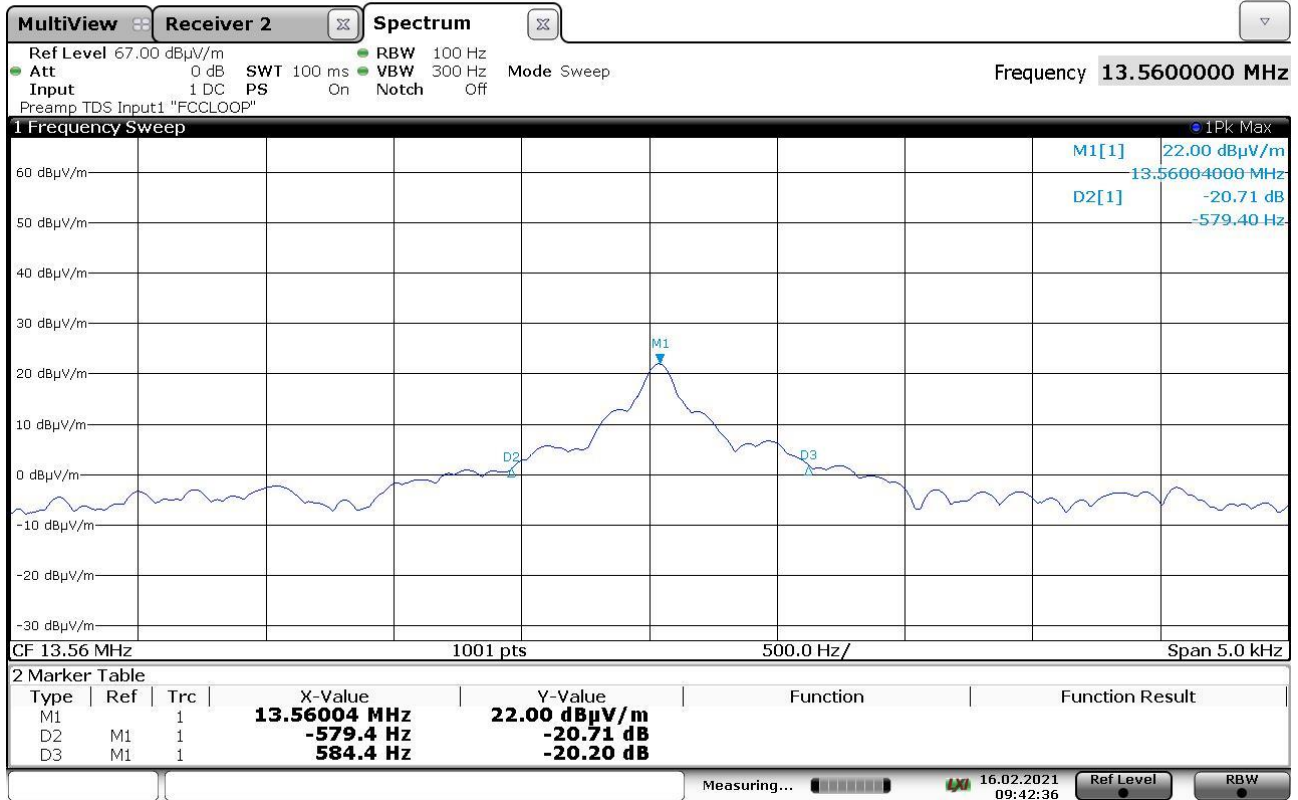
Result

f (MHz)	20 dB bandwidth (MHz)		Graph	Results
	F_L	F_H		
13,56	13,5594606	13,5606244	G21035404	Complies



Graphs

Segalla 21035404



CMC Centro Misure Compatibilità S.r.l.



Attachment 1

Instruments 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 '21	January '22
CMC S108	EMCO	3115	Horn Antenna	9811-5622	June '19	June '22
CMC S127	Schaffner	HLA6120	Loop Antenna	1191	November '18	November '23
CMC S200	Schwarzbeck	NSLK 8128	V-LISN	8128-273	January '21	January '22
CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz	100781	January '21	January '22
CMC S260	CMC	Wfr_N	Shielded Cable	Wfr_ant10-1	November '20	November '21
CMC S261	CMC	Wfr_N	Shielded Cable	Wfr_ant20-1	November '20	November '21
CMC S262	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix32-1	November '20	November '21
CMC S263	CMC	Wfr_N_fix	Shielded Cable	Wfr_fix31-1	November '20	November '21
CMC S264	CMC	Wfr_N	Shielded Cable	Wfr_ext03-1	November '20	November '21
CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Biconical Antenna (30-300MHz)	831	June '19	June '22
CMC S287	Schwarzbeck	VUSLP 9111B	Log-periodic Antenna (200 MHz-3Ghz)	9111B-203	June '19	June '22
CMC S288	CMC	W_sma_white	Joint Shielded Cable	W_001	November '20	November '21
CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz	104059	November '19	November '22
CMC S353	Rohde & Schwarz	ESW26	Emi Test Receiver 1 Hz - 26.5 GHz	101492	September '20	September '22



Attachment 1

Measurement uncertainty

Test	Test Setup	Expanded uncertainty	Note
Conducted emission CISPR 16 LISN 50uH 0,009-0,0150 MHz	PE001_01	3,4 dB	1
Conducted emission CISPR 16 LISN 50uH 0,150-30,0 MHz	PE001_01	3,0 dB	1
Conducted emission CISPR 16 Voltage Probe 0,15-30 MHz	PE001_02	2,3 dB	1
Conducted emission CISPR 16 Current Probe 0,15-30 MHz	PE001_03	2,6 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_01	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_01	4,2 dB	1
Radiated Emission CISPR 16 Bicon. Ant. 30-300 MHz	PE004_02	4,1 dB	1
Radiated Emission CISPR 16 LogP. Ant. 300-1000 MHz	PE004_03	3,9 dB	1
Radiated Emission CISPR 16 Horn Ant. 1-18 GHz	PE004_04	4,1 dB	1
Human Exposure to electromagnetic fields	PE005_01	16,7 %	1
Harmonics	PE006_01	10 mA + 2,9 %	1
Flicker	PE007_01	4,36 %	1
Radiated Immunity 80 MHz - 6 GHz	PE102_XX	2,20 dB 0,87 V/m a 3V/m	1
Conducted Immunity 0,15 - 230 MHz	PE105_XX	1,20 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	6,23 % 18,7 A/m a 300A/m	1
Dumped Magnetic field	PE108_01	6,23 % 1,87 A/m a 30A/m	1
Common mode conducted immunity	PE112_01	2,16 % 0,22 V a 10V	1



Attachment 1

Test	Test Setup	Expanded uncertainty	Note
Power/Spurious 9kHz-30MHz	PR001_01	4,2 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+05	4,7 dB	1
Misura della potenza EIRP 18-40GHz d=3m	PR001_06	5,4 dB	1
Frequency error	PR002_01+02	< 1x10 ⁻⁷	1
Timing zero span (1001pts.)	PR002_01+02	0,2 % SWT	1
Modulation bandwidth	PR002_01+02	< 1x10 ⁻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_21_01 date 23/02/2021			

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%

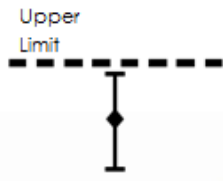
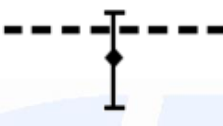

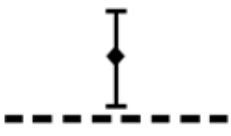
Note 2:

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



Attachment 1

Judgement of compliance

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

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. 3.1 (Quality Manual)	Measure procedure
Internal Procedure INC_M rev. 9.5 (Quality Manual)	Measurement uncertainty calculation