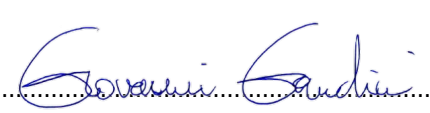
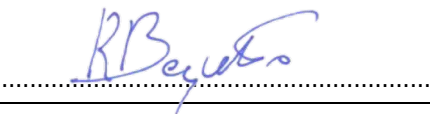


TEST REPORT

Nr. R21097201

Federal Communication Commission (FCC)

Report Reference No.	R21097201
Date of issue:	09.09.2021
Total number pages:	82
Applicant's name	Autec S.r.l.
Address	Via Pomaroli, 65 – 36030 Caldogno (VI) – Italy
Test specification:	
Standards	FCC Rules & Regulations, Title 47:2020 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247
Non-standard test method	N/A
Test Report Form No.	15-247_HoppingCMC
Test Report Form(s) Originator ..	CMC Centro Misure Compatibilità S.r.l.
Master TRF	2021-06
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 RTR Type UG0FH
FCC ID	OQA-RTRUG0FH
Rating(s)	12-24 Vdc
Report	
Tested by (name + signature)	G. Gandini 
Approved by (name + signature)	R. Beghetto 

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2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2020	--
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	

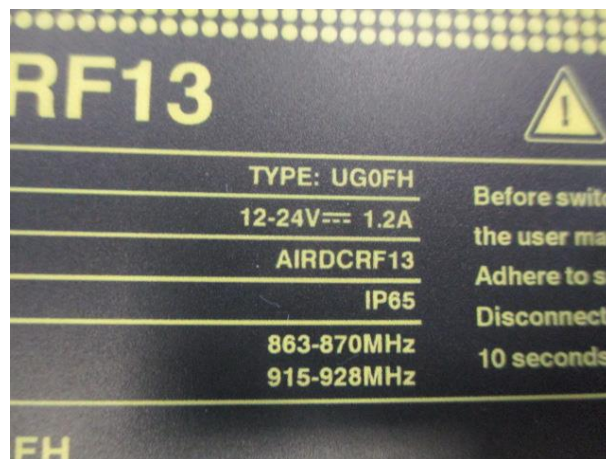
<i>Revision index</i>	<i>Date</i>	<i>Change history</i>
1.0	09.09.2021	--

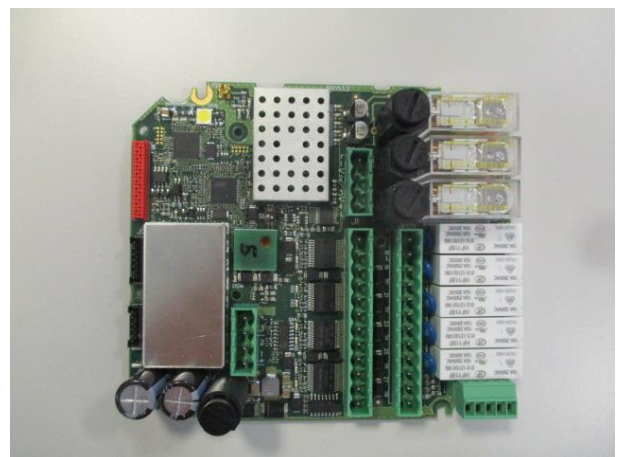
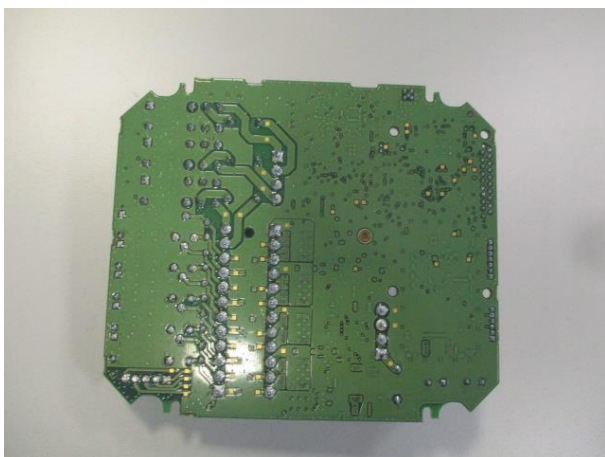
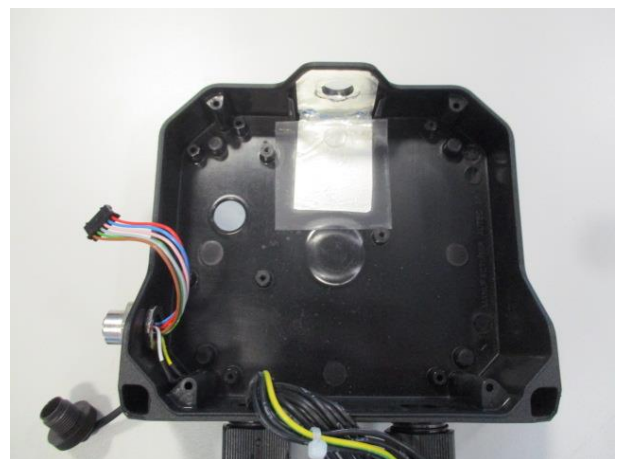
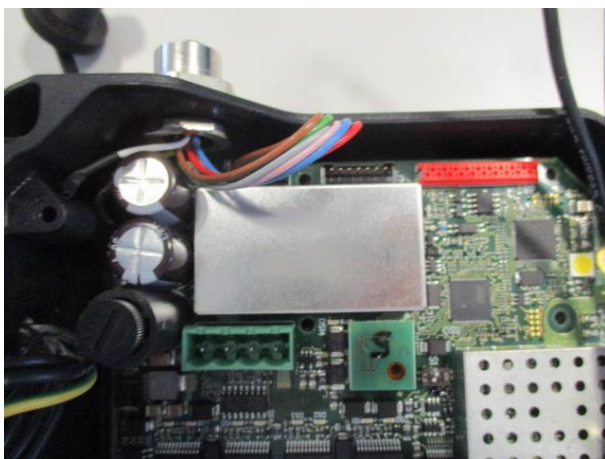
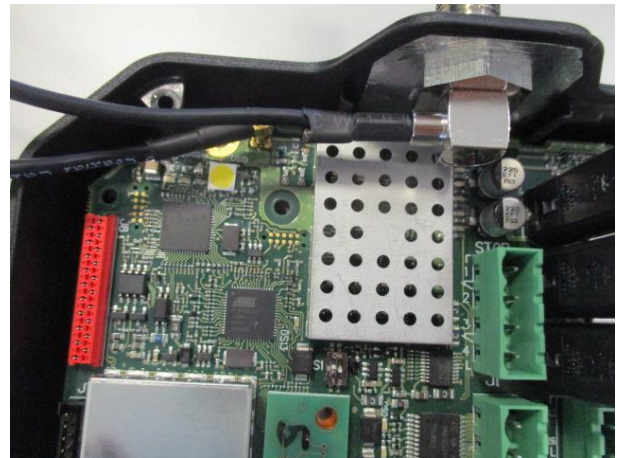
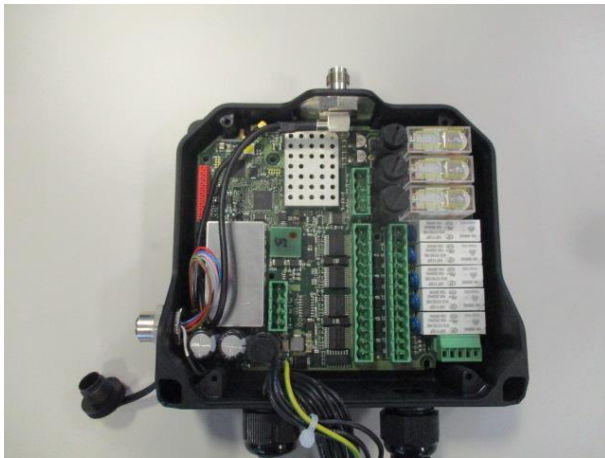
Testing and sampling:	
Date of receipt of test item	20.04.2021
Testing start date	27.04.2021
Testing end date	07.09.2021
Sampling procedure.....	Equipment used for testing was picked up by the manufacturer, at the end of the production process with random criterion. The results relate to the sample as it has been received.
Internal identification	Adhesive label with the product number P210478
General remarks:	
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.	
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:	
☒ Indicates that the listed condition, standard or equipment is applicable for this report. ☐ Indicates that the listed condition, standard or equipment is not applicable for this report.	

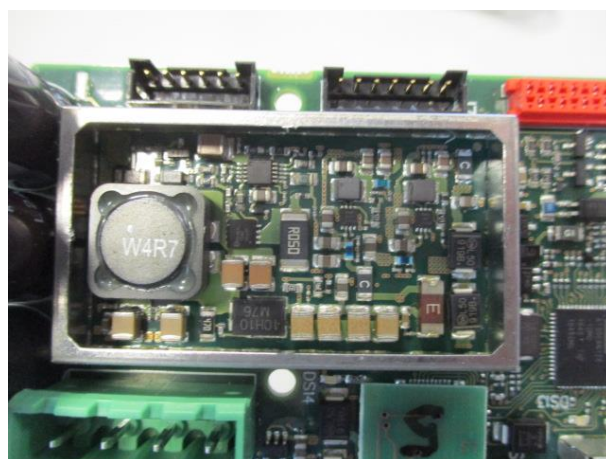
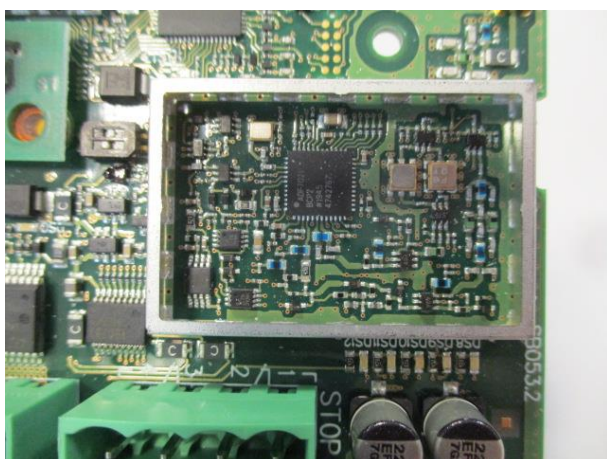
6 General description of tested item and testing condition(s)

Description	Transceiver unit						
Model Number	Model RTR Type UG0FH						
FCC ID	OQA-RTRUG0FH						
Serial Number	--						
Brand name	Autec						
Frequency band	902 – 928 MHz						
Nominal frequencies	F _L : 915,050 MHz		F _M : 921,400 MHz		F _H : 927,800 MHz		
Test power supply.....		Voltage and Frequency	Reference poles				
			N	L1	L2	L3	PE
	☐	AC:	☐	☐	☐	☐	☐
	☐	AC:	☐	☐	☐	☐	☐
	☒	DC: 24 V					☐
Pseudo randomly ordered list of hopping frequencies	See document rtr_ug0fh_operational_description_rev0						
Test configuration	☒	Table top equipment					
	☐	Floor standing equipment					
	☐	Hand-held equipment					
Type of equipment	☒	Transmitter unit					
	☒	Receiver unit					
Type of station	☐	Portable station					
	☒	Mobile station					
Operating modes	No.	Operating mode of test item					
	1	EUT in continuous transmission at maximum power					

6.1 Photos of the test item







7 Verdict summary section

FCC Rules & Regulations, Title 47:2020 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247			
Clause	Requirement – Test case	Basic standard	Verdict
Part 15.247 (a) (1)	Pseudo randomly ordered list of hopping frequencies	--	P
Part 15.203	Antenna requirements	ANSI C63.10	P
Part 15.207	Conducted emissions	ANSI C63.10	P
Part 15.209	Radiated emissions and spurious emission	ANSI C63.10	P
Part 15.247	20 dB Bandwidth	ANSI C63.10	P
Part 15.247	Channel Separation	ANSI C63.10	P
Part 15.247	Number of Hopping Channel	ANSI C63.10	P
Part 15.247	Time of occupancy	ANSI C63.10	P
Part 15.247	Band edge	ANSI C63.10	P
Part 15.209 and 15.247	Peak Output Power	ANSI C63.10	P

Normative references	
Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2020	--
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 C63.10:2013	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	G. Gandini	
Test date	27.04.2021	
Reference standards	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
	☐	Dedicated antenna
Antenna gain.....	≤ 2 dBi	
External R.F. power amplifier	Not Present	

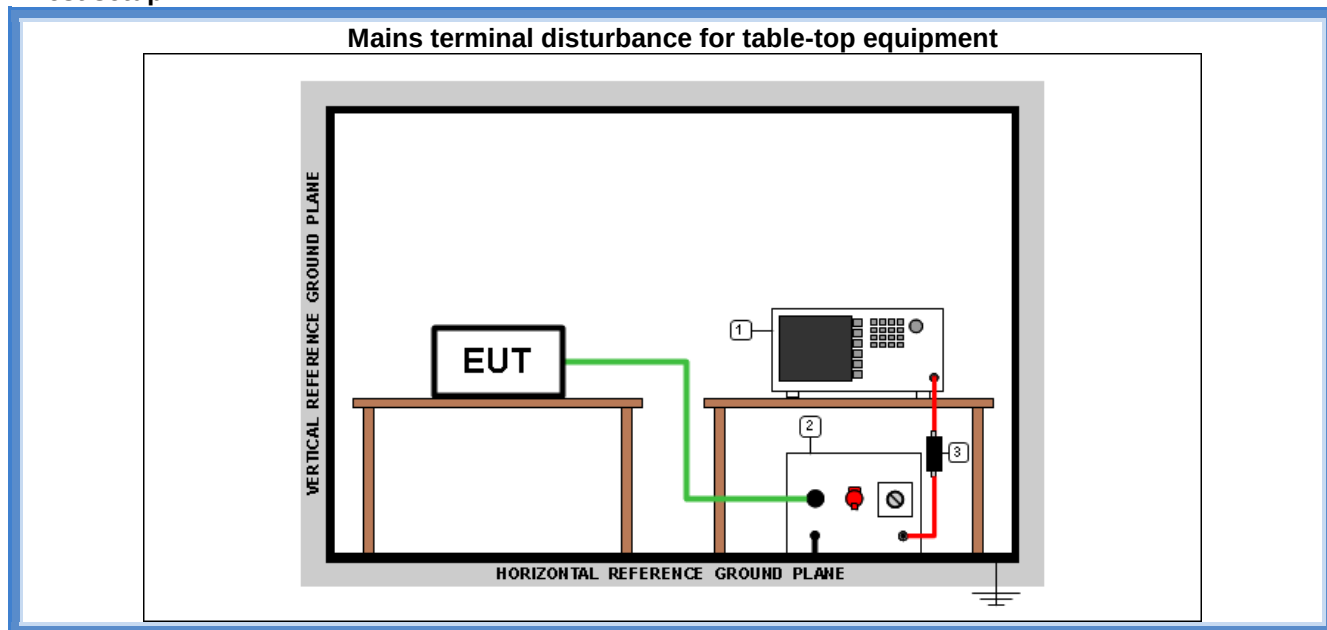
9.2 Conducted emission

Tested by	G. Gandini	
Test date	27.04.2021	
Test location (stand)	Shielded chamber (CMC A001)	
Reference standards	FCC Rules and Regulation; Titles 47 Part. 15.207 ANSI C63.10 cl. 6.2	
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)	<i>dB(μV) Quasi-peak</i>	<i>dB(μV) Average</i>
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	Description
3	CMC S010	Rohde & Schwarz	ESH3-Z2	Pulse limiter
2	CMC S200	Schwarzbeck	NSLK 8128	V-LISN
1	CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz

Result

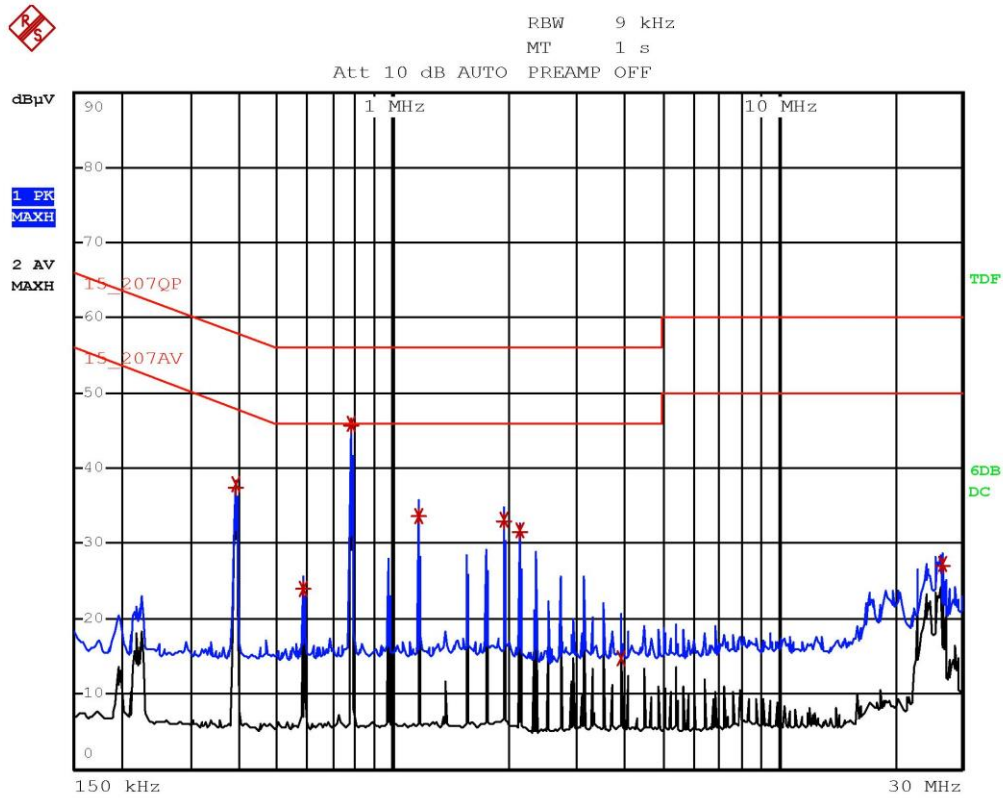
Line	Frequency Range (MHz)	Graphs	Remarks	Result
+24 Vdc	0,15 – 30	G21097201	--	P
-24 Vdc	0,15 – 30	G21097201	--	P

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

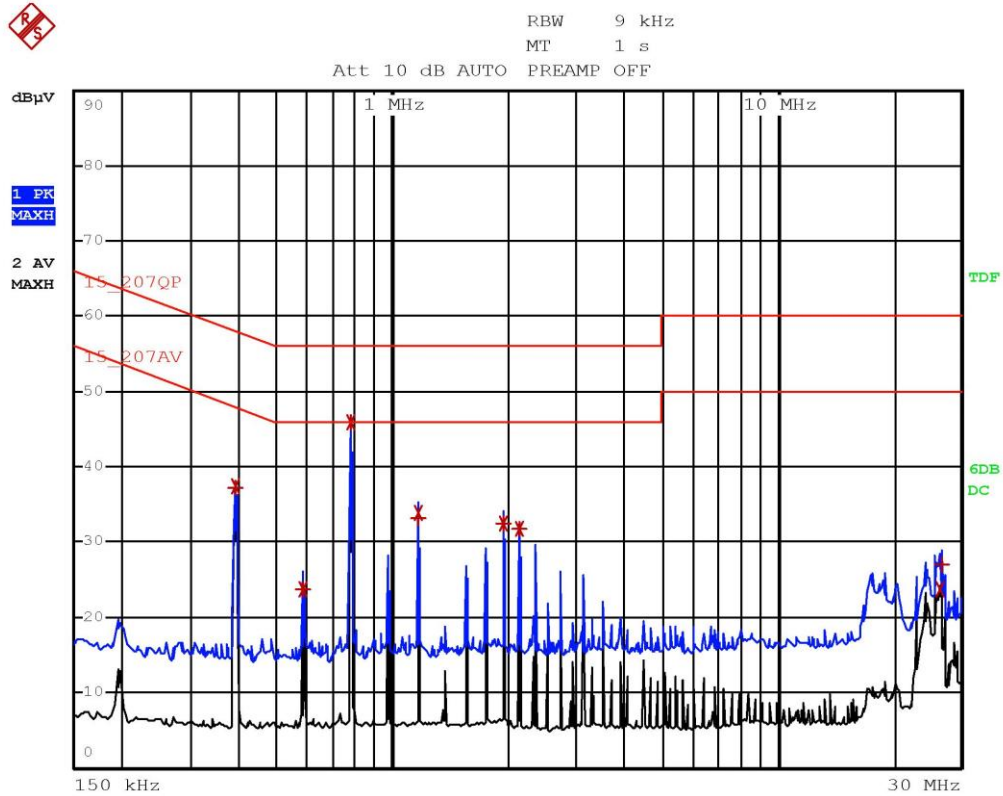
Graphs



Gandini 21097201-Line (+)-Tx Rx

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	15_207QP			
Trace2:	15_207AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB	
1 Quasi Peak	390 kHz	37.42	-20.63	
2 Average	390 kHz	37.96	-10.09	
2 Average	586 kHz	23.96	-22.03	
1 Quasi Peak	586 kHz	23.89	-32.10	
1 Quasi Peak	782 kHz	45.68	-10.31	
2 Average	782 kHz	45.98	-0.01	
1 Quasi Peak	1.174 MHz	33.57	-22.42	
2 Average	1.174 MHz	33.62	-12.37	
1 Quasi Peak	1.954 MHz	32.89	-23.10	
2 Average	1.954 MHz	33.09	-12.90	
1 Quasi Peak	2.15 MHz	31.61	-24.38	
2 Average	2.15 MHz	31.65	-14.34	
2 Average	3.906 MHz	14.72	-31.27	
1 Quasi Peak	26.61 MHz	26.93	-33.07	
2 Average	26.622 MHz	27.38	-22.61	

Gandini 21097201-Line (+)-Tx Rx



Gandini 21097202-Line (-)-Tx Rx

EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Quasi Peak	390 kHz	37.27	-20.78
2 Average	390 kHz	37.54	-10.52
1 Quasi Peak	586 kHz	23.83	-32.16
2 Average	586 kHz	23.69	-22.30
1 Quasi Peak	782 kHz	45.83	-10.16
2 Average	782 kHz	45.95	-0.04
2 Average	1.174 MHz	33.80	-12.19
1 Quasi Peak	1.174 MHz	33.11	-22.88
1 Quasi Peak	1.954 MHz	32.41	-23.58
2 Average	1.954 MHz	32.57	-13.42
1 Quasi Peak	2.15 MHz	31.66	-24.33
2 Average	2.15 MHz	31.71	-14.28
2 Average	26.486 MHz	23.79	-26.20
1 Quasi Peak	26.61 MHz	26.94	-33.05

Gandini 21097202-Line (-)-Tx Rx

9.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	G. Gandini
Test date	25.05.2021
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	☒ 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	SAC with measurement distance [m]: 10 m at frequencies ≤ 1 GHz 3 m at frequencies > 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	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

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

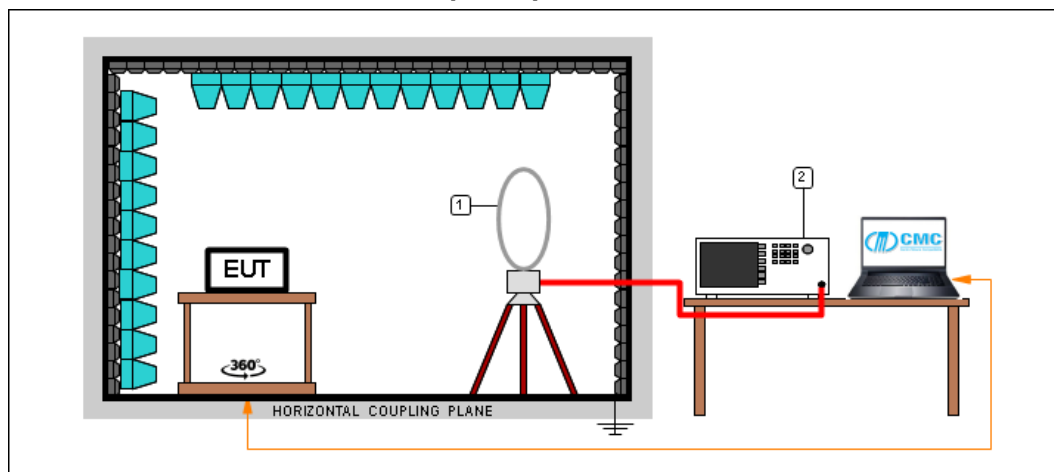
MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test setup

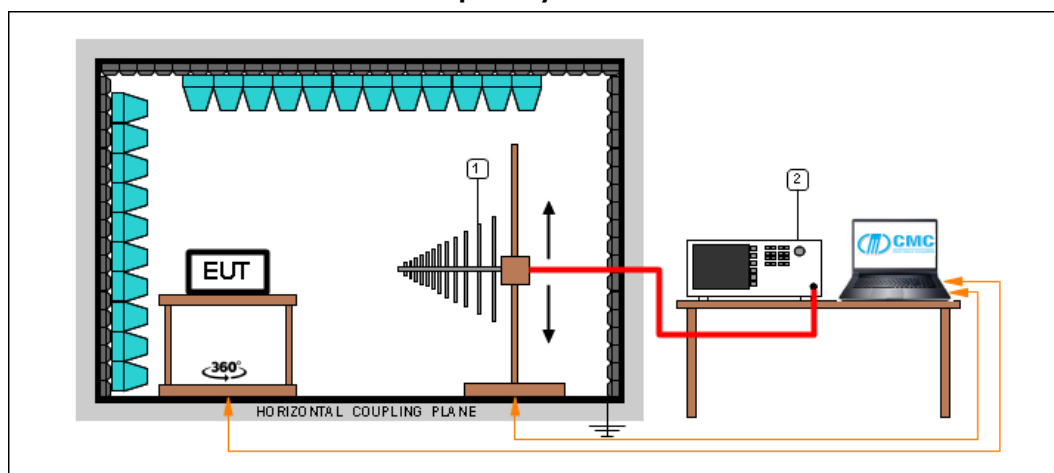
Frequency ≤ 30 MHz



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

Frequency ≤ 1 GHz



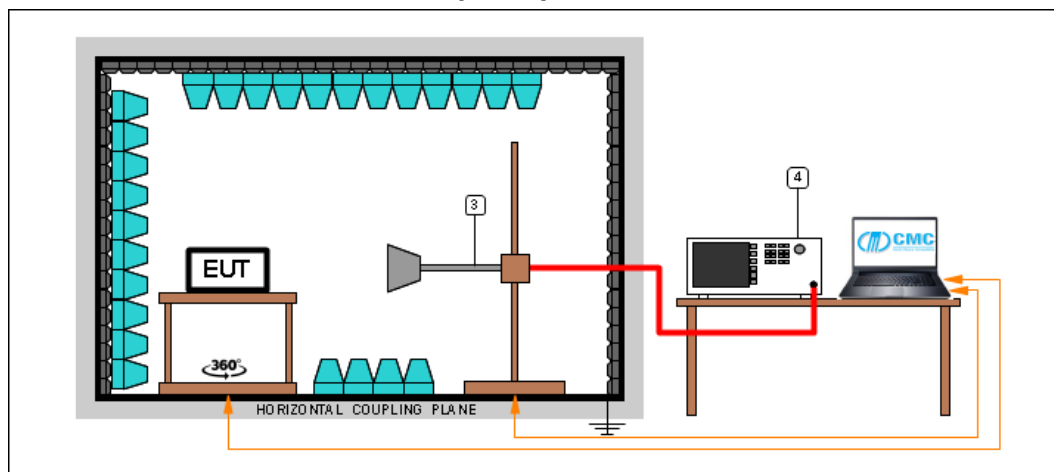
Test setup PE004_02

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

Frequency > 1 GHz



Test setup PE004_04

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
3	CMC S108	Emco	3115	Waveguide antenna

Test setup PE004_05

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
3	CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)

Result – external antenna (5 m cable)

<i>Transmission channel (MHz)</i>	<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Result</i>
915,050	V	1000 – 10000	G21097203	P
915,050	H	1000 – 10000	G21097204	P
921,400	H	1000 – 10000	G21097205	P
921,400	V	1000 – 10000	G21097206	P
927,800	V	1000 – 10000	G21097207	P
927,800	H	1000 – 10000	G21097208	P
Worst case	H	30 – 300	G21097218	P
Worst case	V	30 – 300	G21097219	P
Worst case	Loop	0,009 – 30	G21097220	P
927,800	V	300 – 1000	G21097228	P
927,800	H	300 – 1000	G21097229	P
921,400	H	300 – 1000	G21097230	P
921,400	V	300 – 1000	G21097231	P
915,050	V	300 – 1000	G21097232	P
915,050	H	300 – 1000	G21097233	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

Result – external antenna (direct)

Transmission channel (MHz)	Polarization	Frequency Range (MHz)	Graphs	Result
927,800	H	1000 – 10000	G21097209	P
927,800	V	1000 – 10000	G21097210	P
921,400	V	1000 – 10000	G21097211	P
921,400	H	1000 – 10000	G21097212	P
915,050	H	1000 – 10000	G21097213	P
915,050	V	1000 – 10000	G21097214	P
Worst case	V	30 – 300	G21097216	P
Worst case	H	30 – 300	G21097217	P
Worst case	Loop	0,009 – 30	G21097221	P
915,050	H	300 – 1000	G21097222	P
915,050	V	300 – 1000	G21097223	P
921,400	V	300 – 1000	G21097224	P
921,400	H	300 – 1000	G21097225	P
927,800	H	300 – 1000	G21097226	P
927,800	V	300 – 1000	G21097227	P

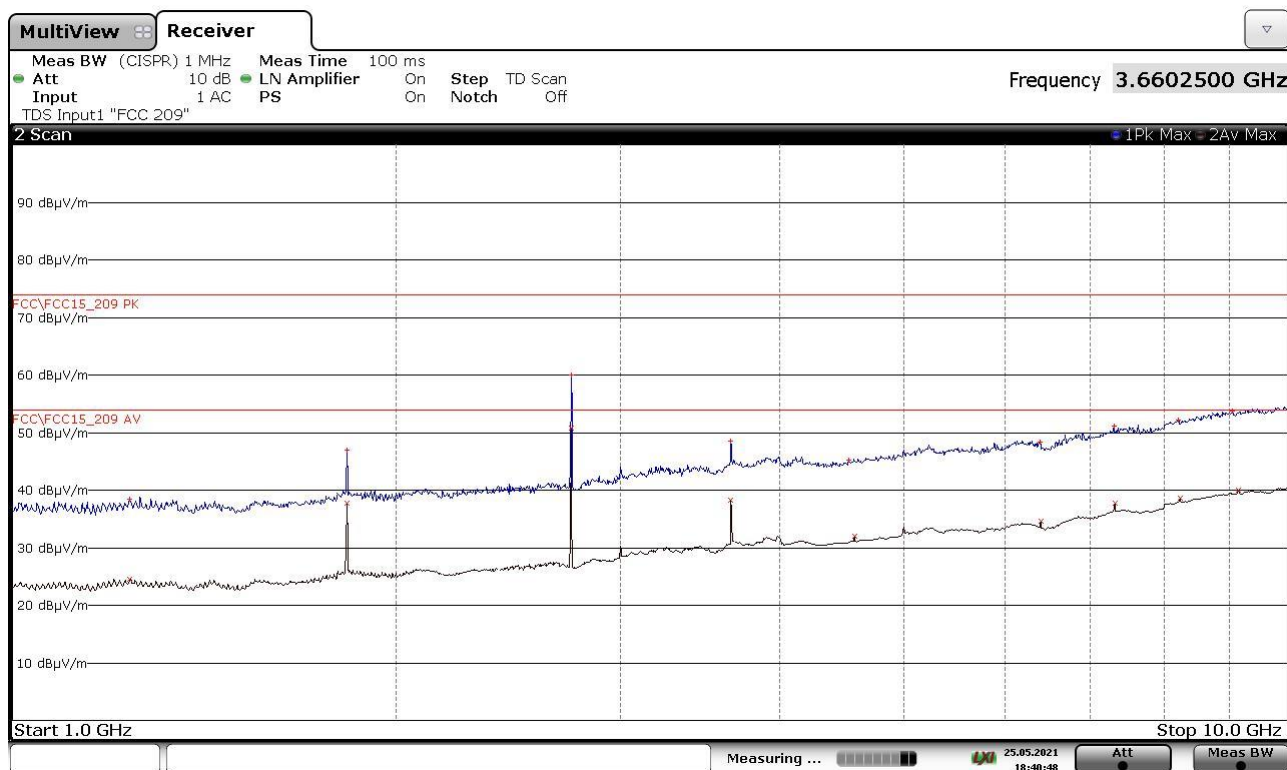
Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based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

Gandini 21097203

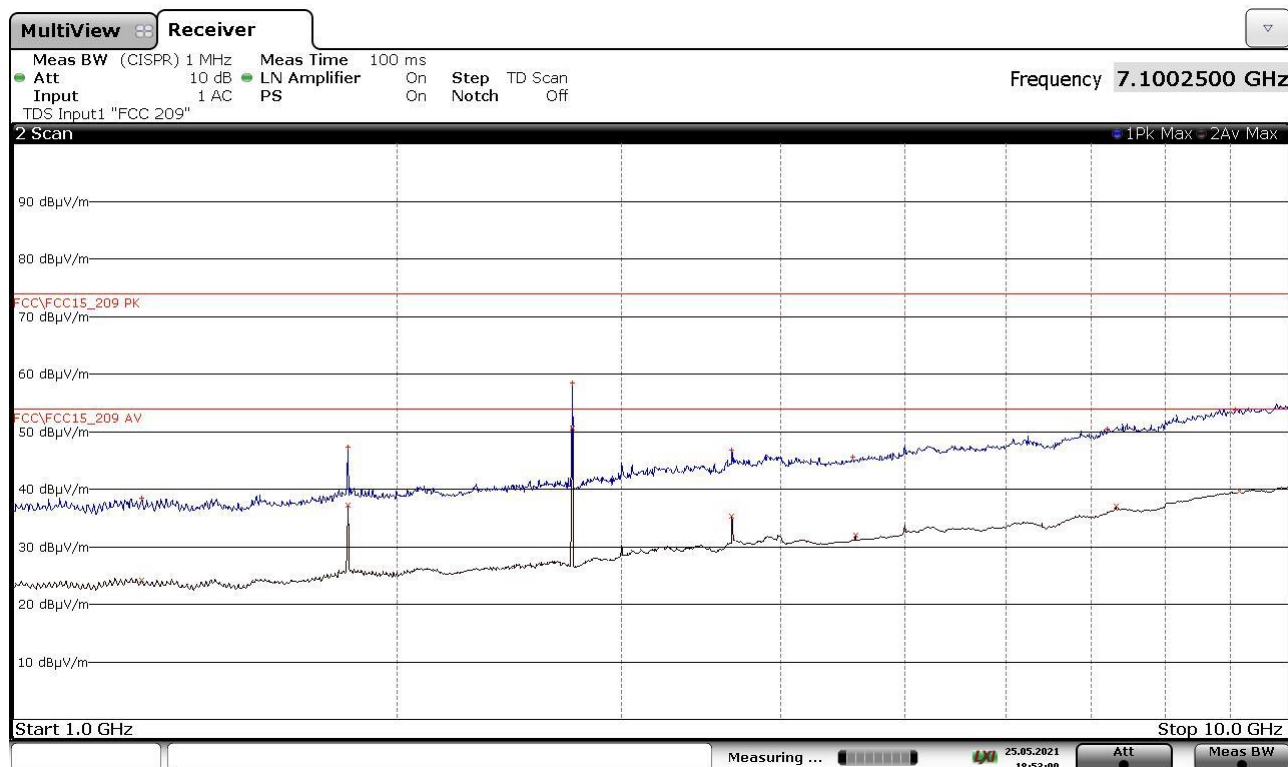


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1235250000	+38,40	-35,58	1235500000	+24,44	-29,54
1830000000	+46,98	-27,00	1830000000	+37,78	-16,20
2745250000	+60,07	-13,91	2745000000	+50,71	-3,27
3660250000	+48,53	-25,45	3660250000	+38,19	-15,79
4525250000	+45,26	-28,72	4575250000	+32,03	-21,95
6401250000	+48,28	-25,70	6405250000	+34,55	-19,43
7311500000	+51,14	-22,84	7320500000	+37,68	-16,30
8216750000	+52,24	-21,74	8235500000	+38,69	-15,29
9059000000	+53,73	-20,25	9150500000	+40,06	-13,92

21097203_2

Gandini 21097204

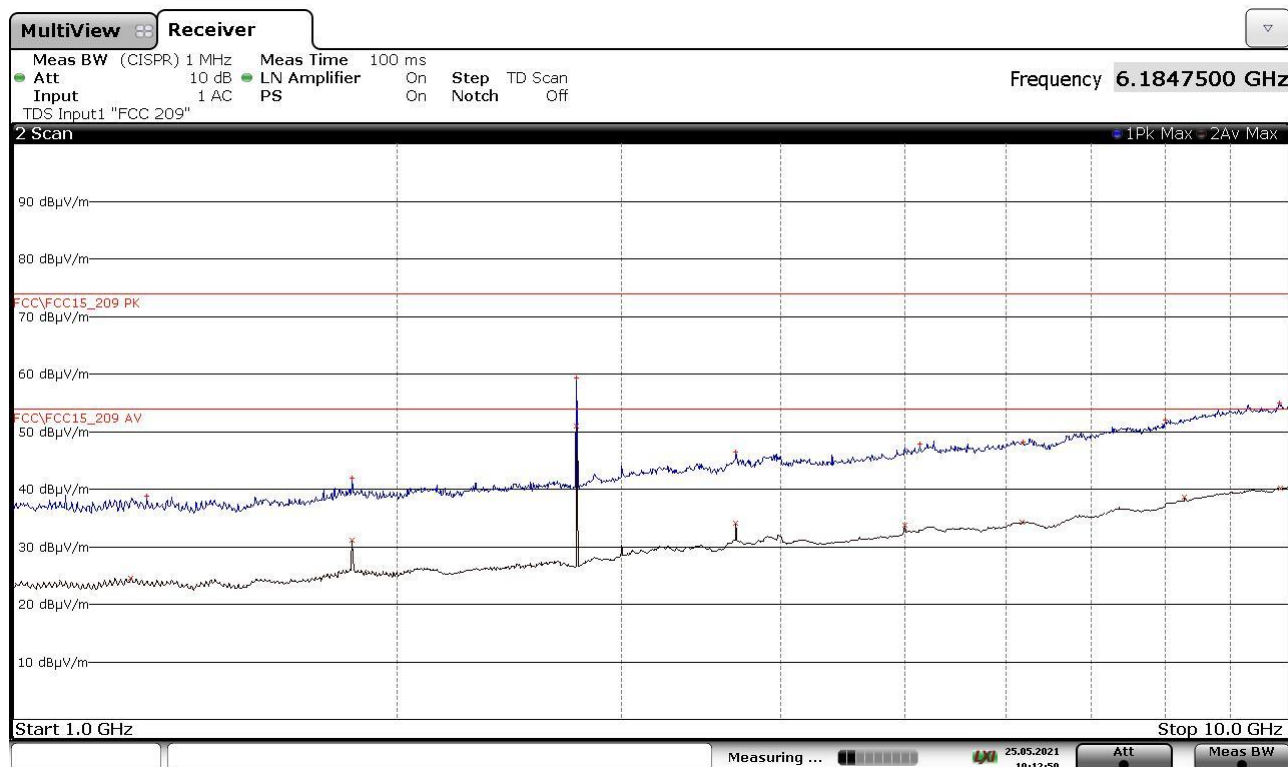


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1260750000	+38,52	-35,46	1260500000	+24,23	-29,75
1830000000	+47,36	-26,62	1830000000	+37,20	-16,78
2745250000	+58,47	-15,51	2745250000	+50,62	-3,36
3660250000	+46,70	-27,28	3660250000	+35,30	-18,68
4553250000	+45,52	-28,46	4575250000	+31,96	-22,02
7212000000	+50,50	-23,48	7320500000	+37,13	-16,85
9089000000	+53,82	-20,16	9150500000	+39,70	-14,28

21097204_2

Gandini 21097205

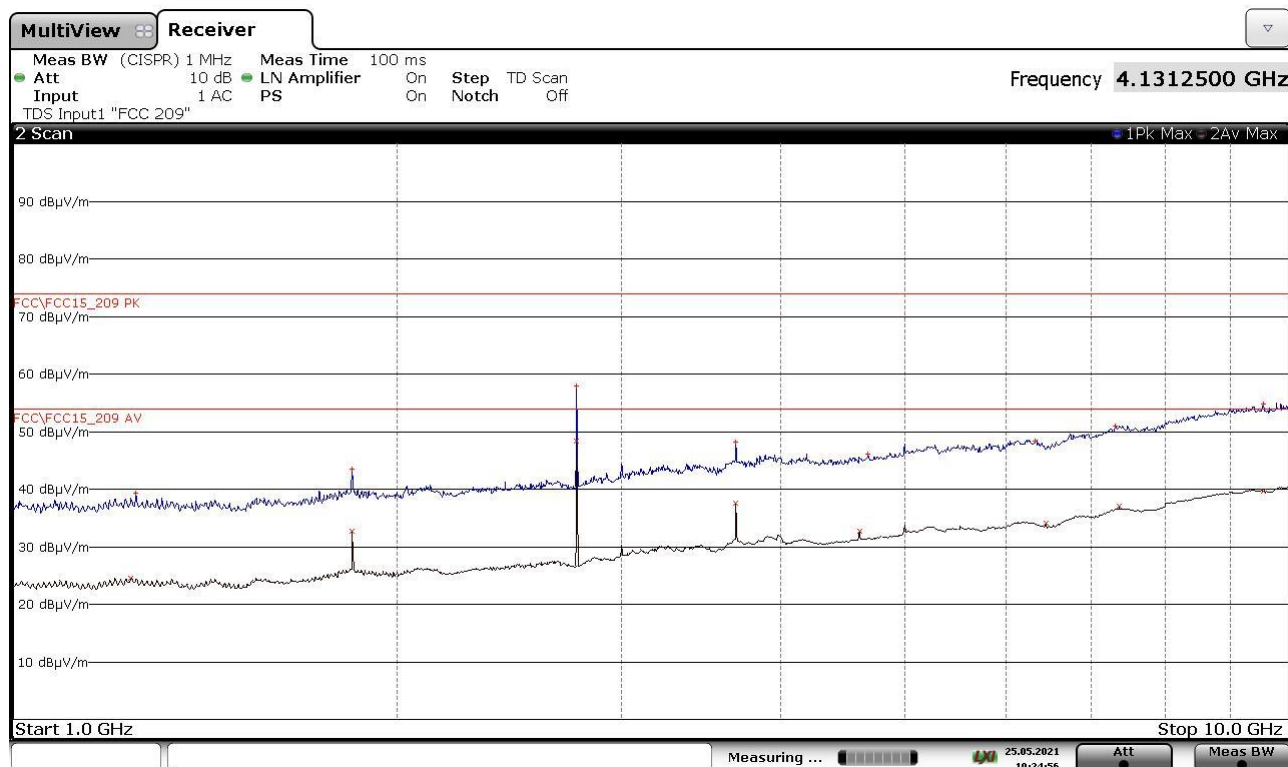


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1272000000	+38,74	-35,24	1235500000	+24,49	-29,49
1842750000	+41,84	-32,14	1842750000	+31,16	-22,82
2764250000	+59,24	-14,74	2764250000	+50,91	-3,07
3685500000	+46,41	-27,57	3685500000	+34,15	-19,83
5142000000	+47,87	-26,11	4999750000	+33,69	-20,29
6187500000	+48,18	-25,80	6184750000	+34,31	-19,67
8007250000	+52,03	-21,95	8292500000	+38,53	-15,45
9836000000	+55,01	-18,97	9851750000	+40,24	-13,74

21097205_2

Gandini 21097206

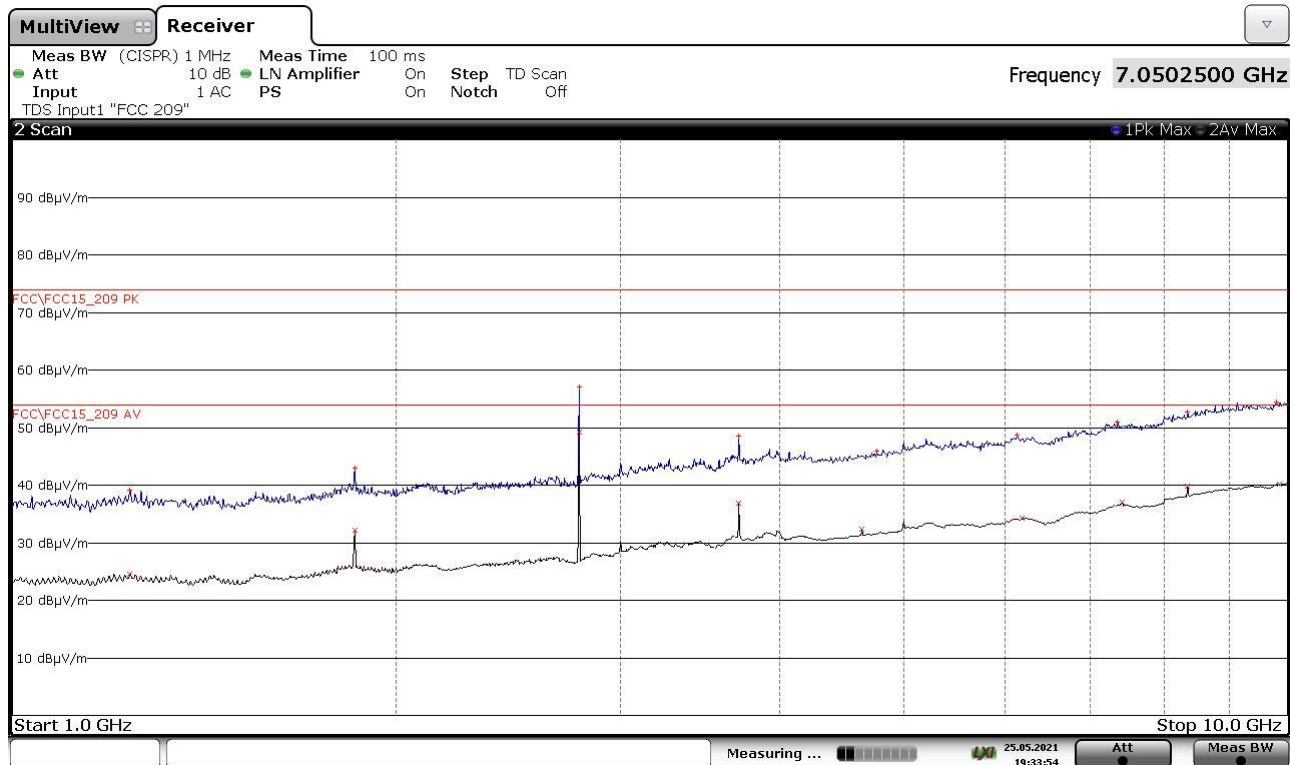


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1247000000	+39,30	-34,68	1236750000	+24,59	-29,39
1842750000	+43,56	-30,42	1842750000	+32,74	-21,24
2764250000	+58,00	-15,98	2764250000	+48,35	-5,63
3685750000	+48,26	-25,72	3685500000	+37,49	-16,49
4678750000	+46,02	-27,96	4607000000	+32,67	-21,31
6333250000	+48,39	-25,59	6449750000	+34,14	-19,84
7315250000	+50,97	-23,01	7371250000	+36,96	-17,02
9552500000	+54,75	-19,23	9551000000	+39,61	-14,37

21097206_2

Gandini 21097207

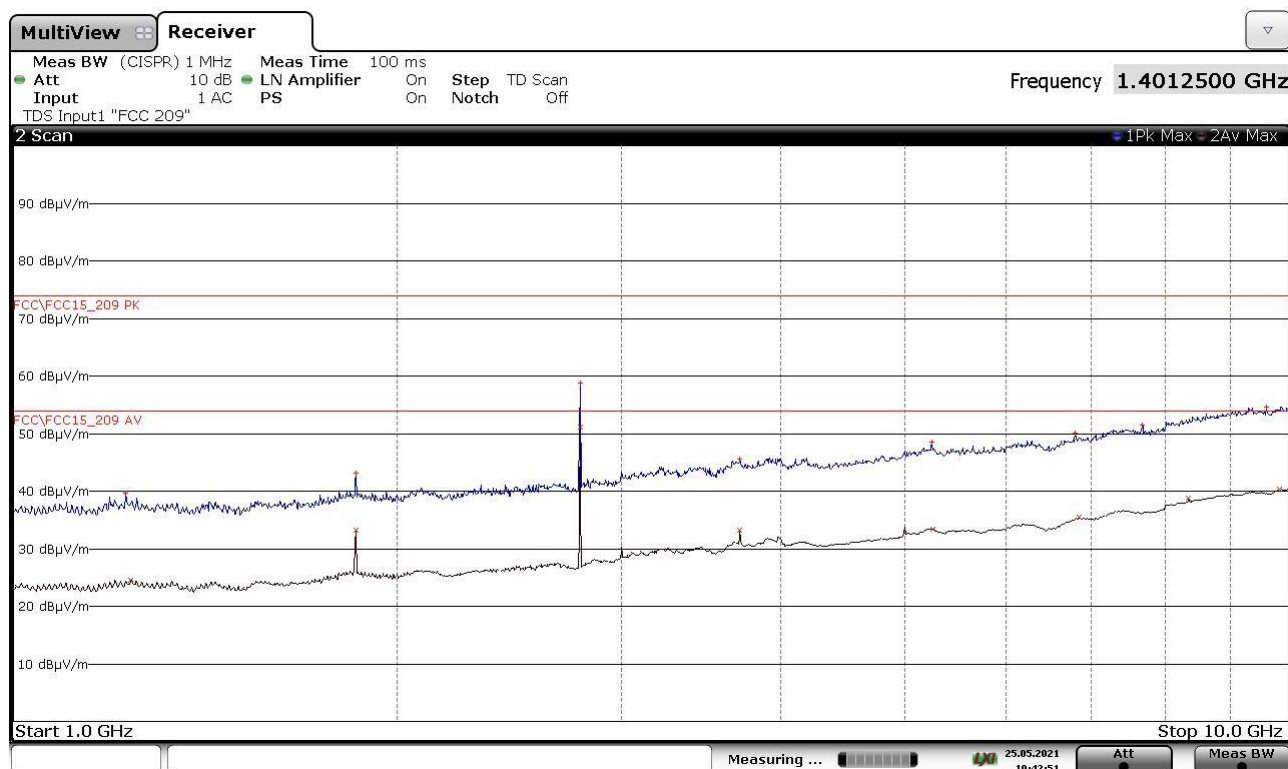


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1236750000	+39,05	-34,93	1235500000	+24,46	-29,52
1855500000	+43,03	-30,95	1855500000	+32,15	-21,83
2783500000	+57,04	-16,94	2783500000	+49,15	-4,83
3711250000	+48,49	-25,49	3711250000	+36,92	-17,06
4762000000	+45,88	-28,10	4639000000	+32,40	-21,58
6140000000	+48,65	-25,33	6187000000	+34,32	-19,66
7358750000	+50,91	-23,07	7422500000	+37,01	-16,97
8350250000	+52,61	-21,37	8350250000	+39,77	-14,21
9796000000	+54,44	-19,54	9851500000	+40,25	-13,73

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FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1225250000	+39,59	-34,39	1236750000	+24,59	-29,39
1855500000	+43,18	-30,80	1855500000	+33,21	-20,77
2783500000	+58,82	-15,16	2783500000	+51,06	-2,92
3711250000	+45,62	-28,36	3711250000	+33,29	-20,69
5251250000	+48,60	-25,38	5258750000	+33,34	-20,64
6800250000	+50,13	-23,85	6853500000	+35,46	-18,52
7685250000	+51,51	-22,47	8350250000	+38,72	-15,26
9608500000	+54,69	-19,29	9830500000	+40,28	-13,70

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