TÜV AUSTRIA SERVICES GMBH

Office:
Deutschstrasse 10
1230 Vienna/Austria
T: +43 5 0454-0
F: +43 5 0454-6505
E: pzw@tuv.at
W: www.tuv.at

Business Area
Industry & Energy Austria

Technik

TEST REPORT

of the accredited test laboratory

TÜV Nr.:INE-AT/FG-20/132

Applicant:	AKG Acoustics GmbH Salzgasse 2 5400 Hallein, Austria
Tested Product:	wireless microphone handheld transmitter
Type:	CSCHTX RF Band VII
Manufacturer:	VTech Communications Ltd. Xia Ling Bei Management Zone, Liaobu, Dongguan, Guangdong Province 523411 China

Output power:	25 mW	**power supply:**	1,5V DC internal battery
Frequency range:	500,1 – 530,5 MHz	**Channel separation:**	200kHz

Standard: EN 300 422-1 V2.1.2 ; 47 CFR Part 74 (Oct. 2018 Edition); RSS-210 Issue 9

TÜV AUSTRIA SERVICES GMBH
Test laboratory for EMC

Supervisor of EMC-laboratory:

Ing. Wilhelm Seier

09.04.2020

checked by:

Ing. Michael Emminger

Contents

1. Applicant

Company:	AKG Acoustics GmbH
Department:	R&D
Address:	Salzgasse 2 5400 Hallein, Austria
Contact person:	Mr. Gabor Mikovics

EUT received on:	16.10.2018
Tests were performed on:	16.01. till 29.01.2019

2. Description of EUT

EUT:	Wireless microphone handheld transmitter ‘CSCHTX RF Band VIII’
Serial Number:	Prototype
Manufacturer:	AKG Acoustics GmbH Salzgasse 2 5400 Hallein, Austria
Description:	AKG Acoustics GmbH provided the following configuration for the measurements: Prototype
Operating mode:	The measurements were carried out at the following running states: Tranmitting
Technical data EUT:	Rated voltage: 1,5VDC Rated current: 500mA Rated frequency: DC Mains voltage during the tests: 1,5VDC via internal battery
Climatic conditions in the emc laboratory:	Relative humidity: 19% Temperature: 23°C

3. Standards / Final result

Name	Title	Deviation	Result
EN 300422-1 V2.1.2	Wireless Microphones; Audio PMSE up to 3 GHz; Part 1: Class A Receivers; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	none	OK
47 CFR Part 74 (Oct. 2018 Edition)	EXPERIMENTAL RADIO, AUXILIARY, SPECIAL BROADCAST AND OTHER PROGRAM DISTRIBUTIONAL SERVICES; Subpart H—Low Power Auxiliary Stations	none	OK
RSS-210 Issue 9	Licence-Exempt Radio Apparatus: Category I Equipment; Annex G—Low-Power Radio Apparatus Operating in the Television Bands	none	OK

Result: Opinions and interpretation of testing laboratory
OK: EUT passed
NOK: EUT failed

4. TEST RESULT

4.1. Frequency stability SUBCLAUSE 8.1

ETSI requirements

Rated output power: 25 mW

Operating condition		Frequency Error kHz			Frequency Error ppm		
		500,1 MHz	515,3 MHz	530,5 MHz	500,1 MHz	515,3 MHz	530,5 MHz
T_{nom} (23)°C	V_{nom} (1,5)V	1,335	1,368	1,400	2,67	2,65	2,64
T_{min} (-20)°C	V_{min} (1)V	-0,376	-0,393	-0,409	-0,75	-0,76	-0,77
	V_{nom} (1,5)V	-0,481	-0,511	-0,515	-0,96	-0,99	-0,97
T_{max} (55)°C	V_{min} (1)V	-0,036	-0,015	-0,027	-0,07	-0,03	-0,05
	V_{nom} (1,5)V	-0,046	-0,038	-0,043	-0,09	-0,07	-0,08
Measurement uncertainty					± 0,1 ppm		

LIMIT **SUBCLAUSE 8.1.3**

The frequency error shall not exceed 20 parts per million for frequencies below 1 GHz, 15 parts per million between 1 GHz and 2 GHz and 10 ppm above 2 GHz.

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-131/1; NT-207; EMV-205; M-1200

Frequency stability **SUBCLAUSE 74.861 / G3.3**

FCC/ISED requirements

Rated output power: 25 mW

Operating condition	Frequency Error kHz			Frequency Error ppm		
Operating voltage at 20°C ambient temperature	500,1 MHz	515,3 MHz	530,5 MHz	500,1 MHz	515,3 MHz	530,5 MHz
1,5 V	1,310	1,344	1,384	2,62	2,61	2,61
1 V	1,300	1,333	1,368	2,60	2,59	2,58
Measurement uncertainty				± 0,1 ppm		

Operating condition	Frequency Error kHz			Frequency Error ppm		
ambient temperature at 1,5V operating voltage	500,1 MHz	515,3 MHz	530,5 MHz	500,1 MHz	515,3 MHz	530,5 MHz
-30°C	-4,402	-4,565	-4,728	-8,80	-8,86	-8,91
-20°C	-0,531	-0,511	-0,552	-1,06	-0,99	-1,04
-10°C	1,044	1,061	1,081	2,09	2,06	2,04
0°C	1,745	1,805	1,867	3,49	3,50	3,52
10°C	1,710	1,735	1,824	3,42	3,37	3,44
20°C	1,310	1,344	1,373	2,62	2,61	2,59
30°C	1,375	1,404	1,442	2,75	2,72	2,72
40°C	0,414	0,470	0,450	0,83	0,91	0,85
50°C	-0,021	-0,015	-0,038	-0,04	-0,03	-0,07
Measurement uncertainty				± 0,1 ppm		

LIMIT **SUBCLAUSE 74.861(e)(4) / Table G.1**

The frequency tolerance of the transmitter shall be 0,005 percent (50ppm).

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-131/1; NT-207; EMV-205; M-1200

4.2 Rated output power SUBCLAUSE 8.2

Radiated Measurement

Rated output power: 25 mW

Test conditions		Transmitter power (mW) (erp)		
		500,1 MHz	515,3 MHz	530,5 MHz
T_{nom} (23)°C	V_{nom} (1,5)V	23,99	23,99	19,50
Maximum deviation from rated output power under normal test conditions (%)		-4,0	-4,0	-22,0
Measurement uncertainty		± 0,75 dB		

LIMIT SUBCLAUSE 8.2.3

The measured value shall be within +20 % and -50 % of the manufacturers declared rated output power.

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-131/1; NT-207

4.3 NECESSARY BANDWIDTH SUBCLAUSE 8.3

LIMIT SUBCLAUSE 8.3.2.2

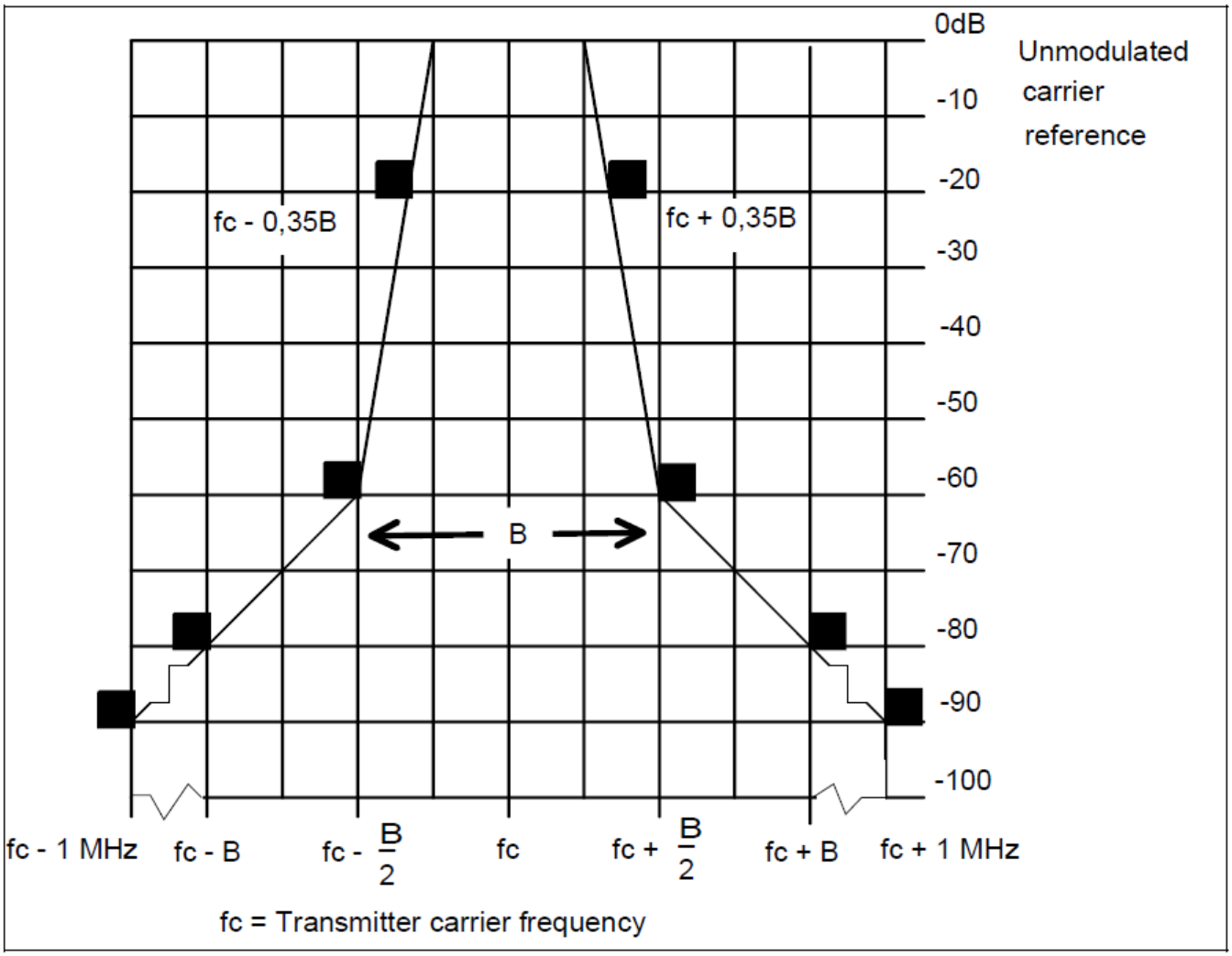


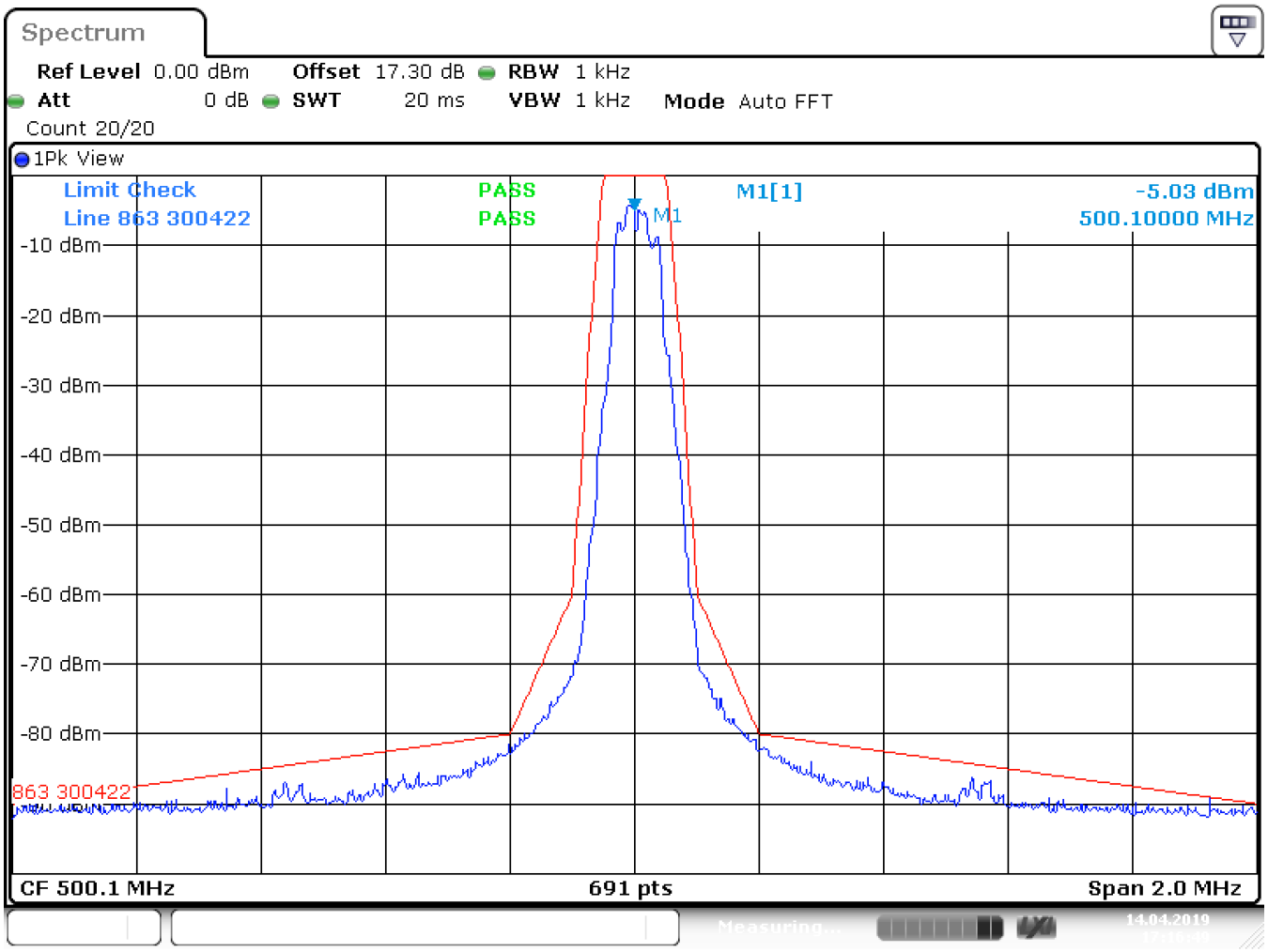
Figure 3 shows the spectrum mask for all analogue systems in the band. The -90 dBc point shall be ±1 MHz from fc measured with an average detector. To comply, a measured value shall fall below the mask limit as shown in figure 3.

NECESSARY BANDWIDTH **SUBCLAUSE 8.3**

The operating Bandwidth was measured at an acoustic input level 12 dB higher than the limiting threshold, determined with 500 Hz signal.

Rated output power: 25 mW

Measurement with weighted noise source signal @ 500,1 MHz centered.



Date: 14.APR.2019 17:16:50

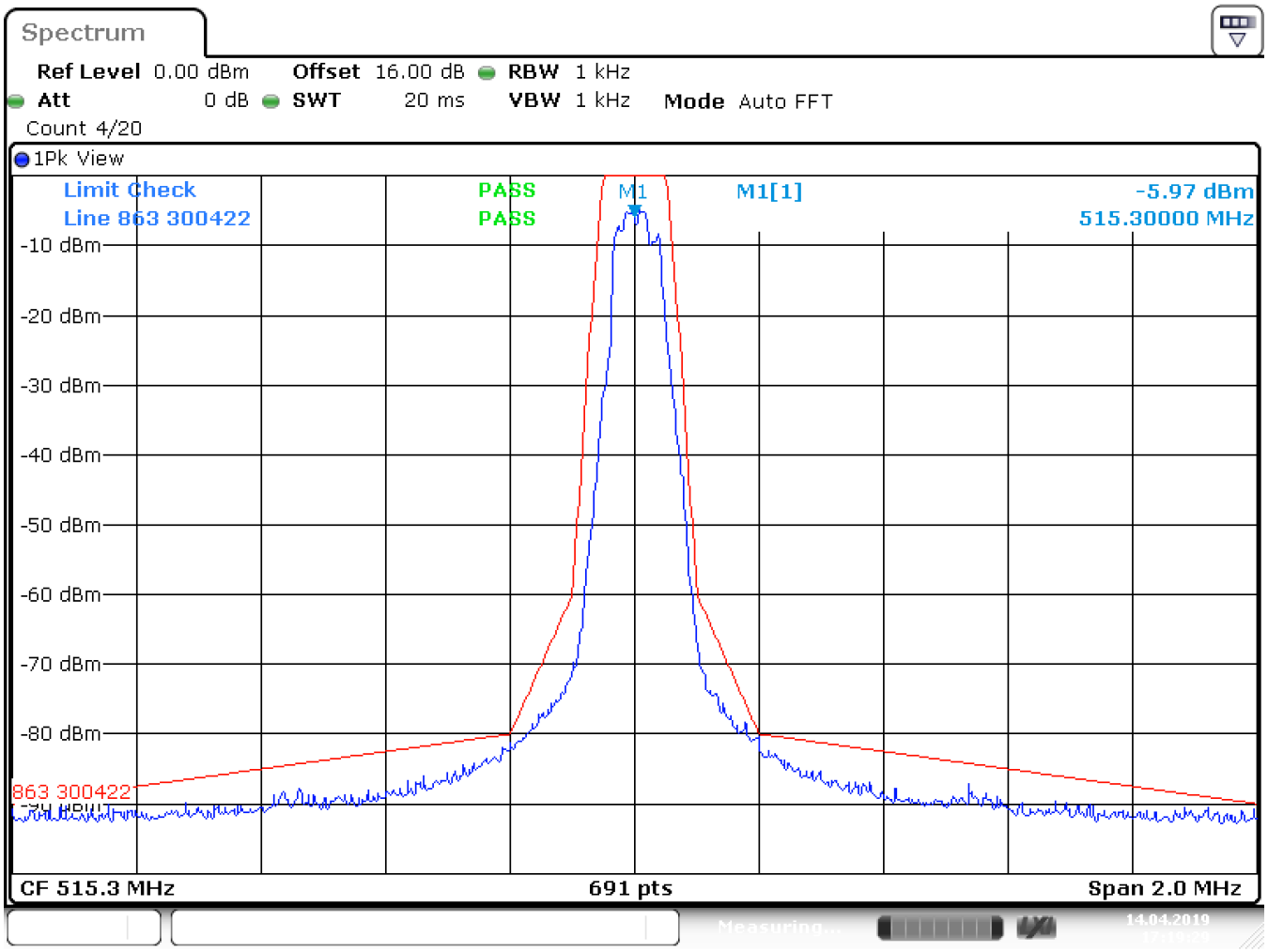
TEST EQUIPMENT USED: EMV-205

NECESSARY BANDWIDTH SUBCLAUSE 8.3

The operating Bandwidth was measured at an acoustic input level 12 dB higher than the limiting threshold, determined with 500 Hz signal.

Rated output power: 25 mW

Measurement with weighted noise source signal @ 515,3 MHz centered.



Date: 14.APR.2019 17:19:29

TEST EQUIPMENT USED: EMV-205

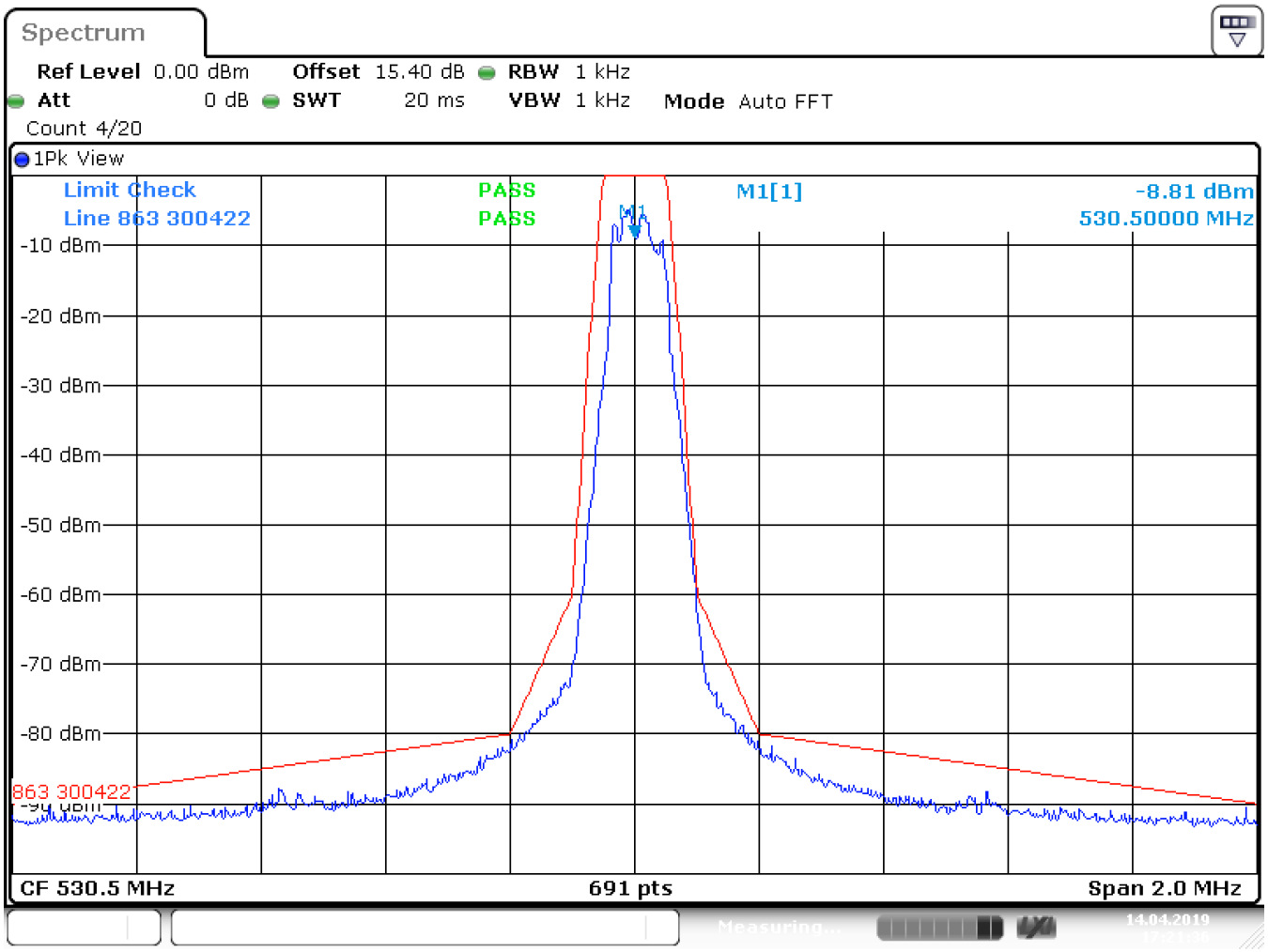
Ambient temperature: 23°C Relative humidity: 19%

NECESSARY BANDWIDTH **SUBCLAUSE 8.3**

The operating Bandwidth was measured at an acoustic input level 12 dB higher than the limiting threshold, determined with 500 Hz signal.

Rated output power: 25 mW

Measurement with weighted noise source signal @ 530,5 MHz centered.



Date: 14.APR.2019 17:21:36

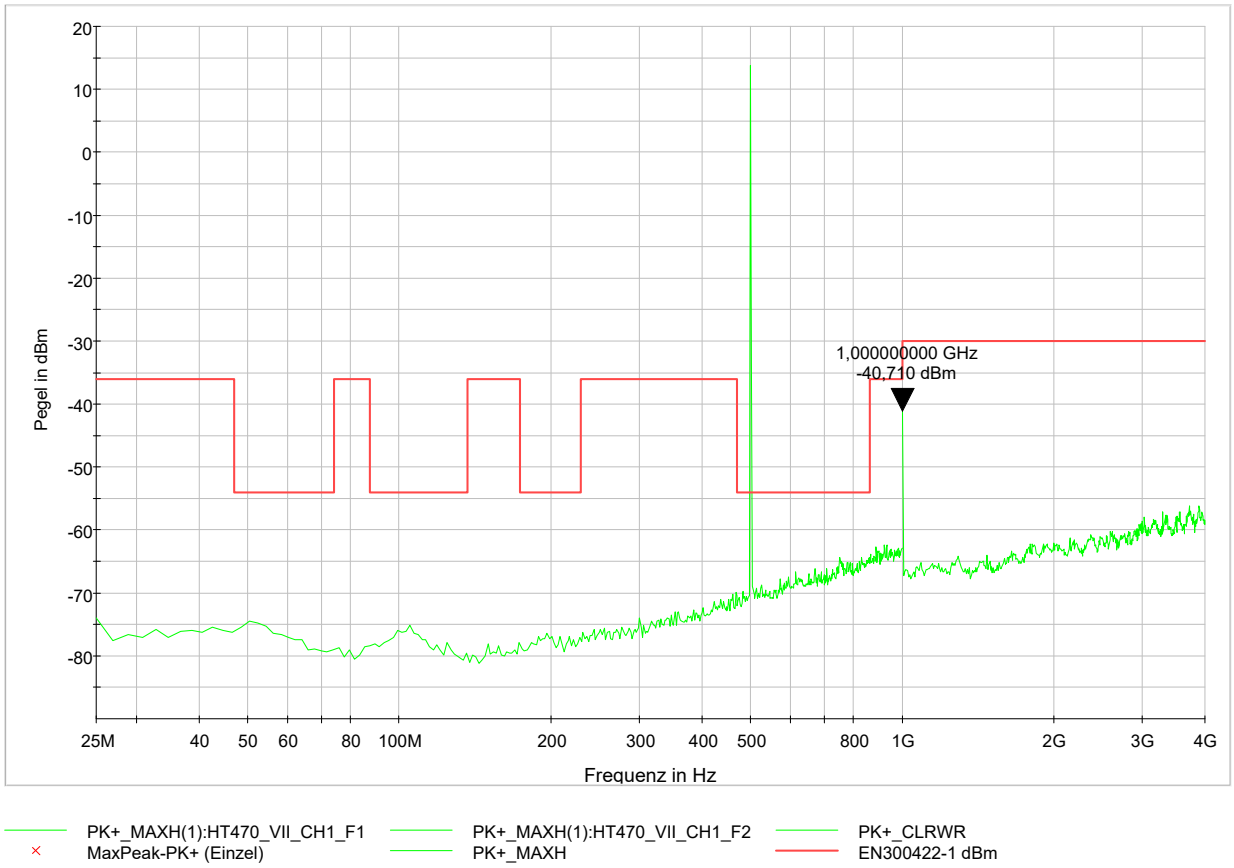
TEST EQUIPMENT USED: EMV-205

4.4 TRANSMITTER SPURIOUS EMISSIONS radiated SUBCLAUSE 8.4

Operating mode: transmitter operating at 500,1 MHz

Rated output power: 25 mW

Modulation: unmodulated carrier



LIMIT SUBCLAUSE 8.4.3

47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤ 1000 MHz	Frequencies > 1000 MHz
4,0 nW (-54 dBm)	250 nW (-36 dBm)	1,00 µW (-30 dBm)

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-131/1; NT-139; NT-337; NT-207

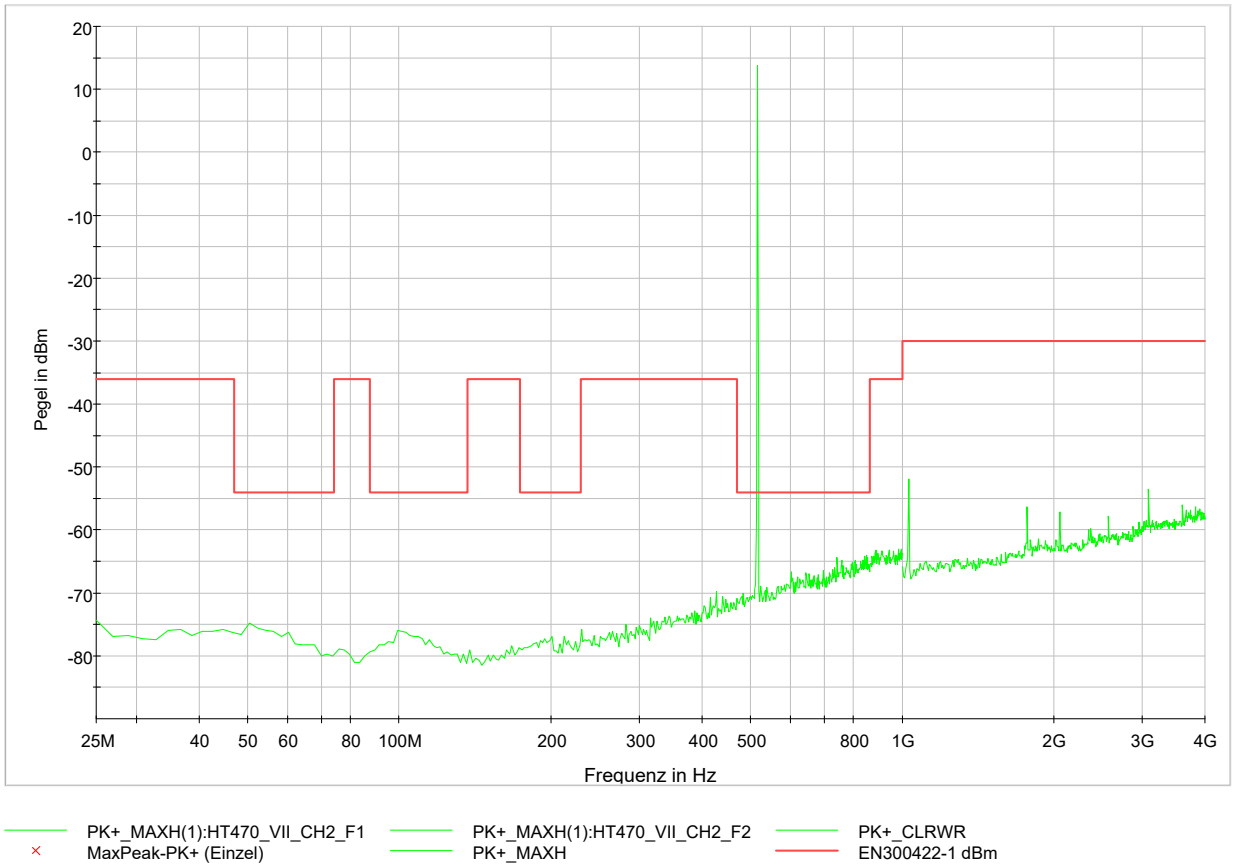
Ambient temperature: 23°C Relative humidity: 19%

TRANSMITTER SPURIOUS EMISSIONS radiated **SUBCLAUSE 8.4**

Operating mode: transmitter operating at 515,3 MHz

Rated output power: 25 mW

Modulation: unmodulated carrier



LIMIT **SUBCLAUSE 8.4.3**

47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤ 1000 MHz	Frequencies > 1000 MHz
4,0 nW (-54 dBm)	250 nW (-36 dBm)	1,00 µW (-30 dBm)

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-131/1; NT-139; NT-337; NT-207

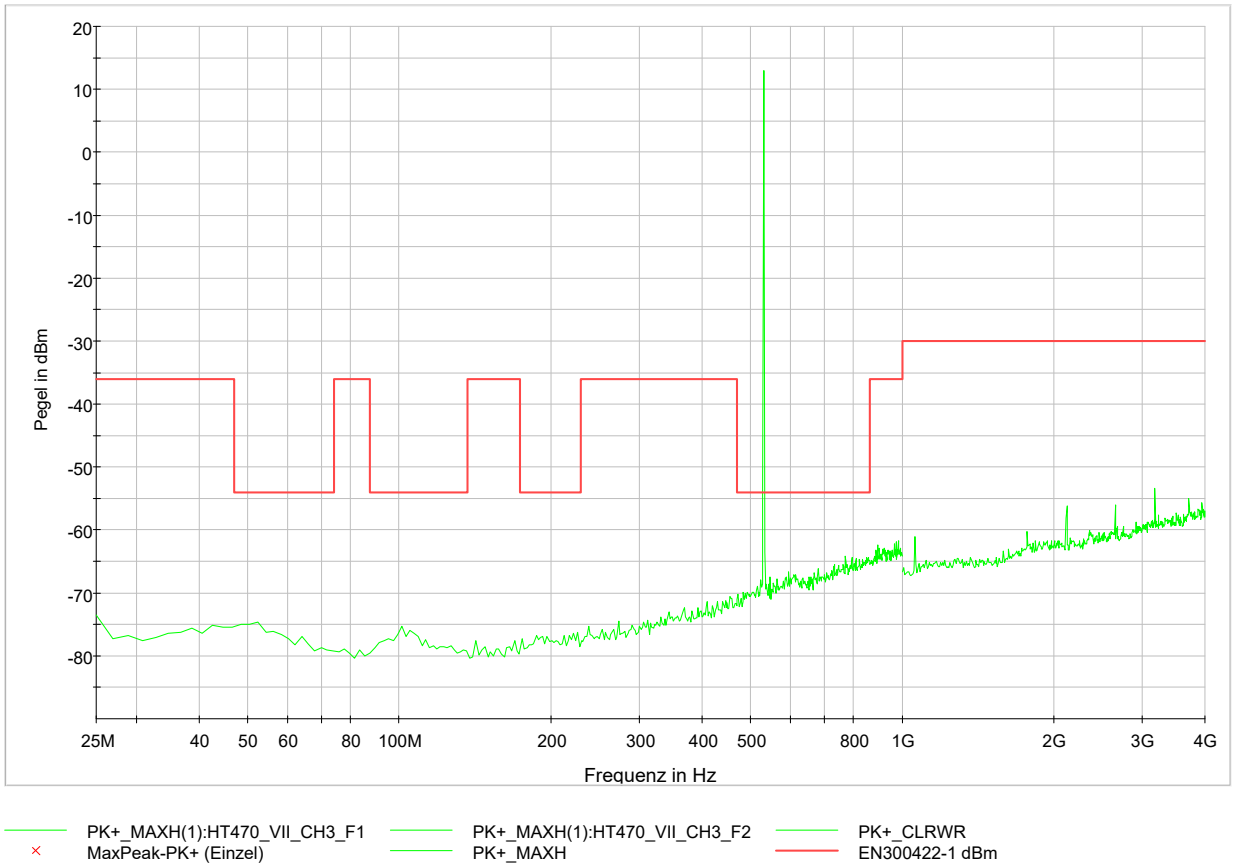
Ambient temperature: 23°C Relative humidity: 19%

TRANSMITTER SPURIOUS EMISSIONS radiated **SUBCLAUSE 8.4**

Operating mode: transmitter operating at 530,5 MHz

Rated output power: 25 mW

Modulation: unmodulated carrier



LIMIT **SUBCLAUSE 8.4.3**

47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤ 1000 MHz	Frequencies > 1000 MHz
4,0 nW (-54 dBm)	250 nW (-36 dBm)	1,00 µW (-30 dBm)

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-131/1; NT-139; NT-337; NT-207

Ambient temperature: 23°C Relative humidity: 19%

TRANSMITTER SPURIOUS EMISSIONS radiated **SUBCLAUSE 8.4**

Operating mode: transmitter standby

Because the transmitter is operating after switching on, there is no standby mode available and no measurement was performed.

4.5 Transmitter intermodulation distortion SUBCLAUSE 8.5

Radiated measurement

	TX-IMD (dBc)		
Unwanted Signal	500,1 MHz	515,3 MHz	530,5 MHz
fw + 5 MHz	-44,7	-45,6	-48,9
fw – 5 MHz	-44,6	-46,7	-50,8
Measurement uncertainty	± 3dB		

LIMIT **SUBCLAUSE 8.5.3**

The maximum resulting IMD product shall be at least 40 dB below the output power of the DUT.

Measuring equipment used:
NT-100; NT-111/1; NT-112/1; NT-113/1; NT-131/1; NT-210; NT-310; NT-310/1; EMV-205

Appendix 1
Test equipment used

Division:
Industry & Energy

Department: FG

Test report number:
INE-AT/FG-20/132

Date: 09.04.2020

☐	Anechoic Chamber with 3m measurement distance	NT-100	☐	Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-173
☐	Stripline according to ISO 11452-5	NT-108	☐	Spectrumanalyzer – FSP7 9 kHz – 7 GHz	NT-200
☐	MA4000 - Antenna mast 1 - 4 m height	NT-110/1	☐	ESCI - Test receiver 9 kHz - 7 GHz	NT-203/1
☐	DS - Turntable 0 - 400 ° Azimuth	NT-111/1	☐	ESI26 – Test receiver 20 Hz – 26,5 GHz	NT-207
☐	CO3000 Controller Mast+Turntable	NT-112/1	☐	Digital Radio Tester CMW500	NT-208/1
☐	HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121	☐	Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
☐	FMZB1513 - Loop Antenna 9 kHz - 30 MHz	NT-122/1	☐	CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz	NT-210
☐	HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123	☐	3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
☐	3121C - Dipole Antenna 28 - 1000 MHz	NT-124	☐	Digital Radio Tester Aeroflex 3920	NT-212/1
☐	3115 - Horn Antenna 1 - 18 GHz (immunity)	NT-125	☐	Mixer M28HW 26,5 GHz - 40 GHz	NT-214
☐	3116 - Horn Antenna 18 - 40 GHz	NT-126	☐	RubiSource T&M Timing reference	NT-216
☐	SAS-200/543 - Bicon. Antenna 20 MHz - 300 MHz	NT-127	☐	Radiocommunicationanalyzer SWR 1180 MD	NT-217
☐	AT-1080 - Log. Per. Antenna 80 - 1000 MHz	NT-128	☐	Mixer M19HWD 40 GHz – 60 GHz	NT-218
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129	☐	Mixer M12HWD 60 GHz – 90 GHz	NT-219
☐	HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130	☐	DSO9104 Digital scope	NT-220/1
☐	3146 - Log. Per. Antenna 200 – 1000 MHz	NT-131	☐	TPS 2014 Digital scope	NT-222
☐	VULB 9163 Trilog Antenna 30 – 3000 MHz	NT-131/1	☐	Artificial Ear according to IEC 60318	NT-224
☐	Loop Antenna H-Field	NT-132	☐	1 kHz Sound calibrator	NT-225
☐	Horn Antenna 500 MHz - 2900 MHz	NT-133	☐	B10 - Harmonics and flicker analyzer	NT-232
☐	Horn Antenna 500 MHz - 6000 MHz	NT-133/1	☐	SRM-3006 Spectrumanalyzer	NT-233/1a
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-134	☐	E-field probe SRM 75 MHz – 3 GHz	NT-234
☐	Log. per. Antenna 800 MHz - 2500 MHz	NT-135	☐	Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-e
☐	BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	☐	Hall-Teslameter ETM-1	NT-241
☐	Conical Dipol Antenna PCD8250	NT-138	☐	EFA-3 H-field- / E-field probe	NT-243
☐	HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139	☐	EHP-50F H-field- / E-field probe	NT-243/1
☐	HZ-1 Antenna tripod	NT-150	☐	Field Meter EMR-200 100 kHz – 3 GHz	NT-244
☐	BN 1500 Antenna tripod	NT-151	☐	E-field probe 100 kHz – 3 GHz	NT-245
☐	Ant. tripod for EN61000-4-3 Model TP1000A	NT-156	☐	H-field probe 300 kHz – 30 MHz	NT-246

Appendix 1 (continued)
Test equipment used

☐	E-field probe 3 MHz – 18 GHz	NT-247
☐	H-field probe 27 MHz – 1 GHz	NT-248
☐	ELT-400 1 Hz – 400 kHz	NT-249
☐	MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250
☐	FCC-203I EM Injection clamp	NT-251
☐	FCC-203I-DCN Ferrite decoupling network	NT-252
☐	PR50 Current Probe	NT-253
☐	i310s Current Probe	NT-254/1
☐	Fluke 87 V True RMS Multimeter	NT-260
☐	Model 2000 Digital Multimeter	NT-261
☐	Fluke 87 V Digital Multimeter	NT-262/1
☐	ESH2-Z5-U1 Artificial mains network 4x25A	NT-300
☐	ESH3-Z5-U1 Artificial mains network 2x10A	NT-301
☐	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302
☐	ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a
☐	PHE 4500/B Power amplifier	NT-304
☐	EZ10 T-Artificial Network	NT-305
☐	SMG - Signal generator 0,1 - 1000 MHz	NT-310
☐	SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1
☐	RefRad Reference generator	NT-312
☐	SMP 02 Signal generator 10 MHz - 20 GHz	NT-313
☐	40 MHz Arbitrary Generator TGA1241	NT-315
☐	Artificial mains network NSLK 8127-PLC	NT-316
☐		
☐	PSURGE 4.1 Surge generator	NT-324
☐	IMU4000 Immunity test system	NT-325/1
☐	VCS 500-M6 Surge-Generator	NT-326
☐	Oscillatory Wave Simulator incl. Coupling networks	NT-328a+b+c
☐	BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330
☐	T82-50 RF-Amplifier 2 GHz – 8 GHz	NT-331
☐	500W1000M7 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332
☐	AS0102-65R - RF-Amplifier 1 GHz - 2 GHz	NT-333
☐	APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
☐	Preamplifier 1 GHz - 4 GHz	NT-335
☐	Preamplifier for GPS MKU 152 A	NT-336
☐	Preamplifier 100 MHz – 23 GHz	NT-337
☐	DC Block 10 MHz – 18 GHz Model 8048	NT-338
☐	2-97201 Electronic load	NT-341
☐	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
☐	TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
☐	VDS 200 Mobil-impuls-generator	NT-350
☐	LD 200 Mobil-impuls-generator	NT-351
☐	MPG 200 Mobil-Impuls-Generators	NT-352
☐	EFT 200 Mobil-impuls-generator	NT-353
☐	AN 200 S1 Artificial Network	NT-354
☐	FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
☐	PHE 4500 - Mains impedance network	NT-401
☐	IP 6.2 Coupling filter for data lines (Surge)	NT-403
☐	TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
☐	ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
☐	IP 4 - Capacitive clamp (Burst)	NT-411
☐	Highpass-Filter 100 MHz – 3 GHz	NT-412
☐	Highpass-Filter 600 MHz – 4 GHz	NT-413
☐	Highpass-Filter 1250 MHz – 4 GHz	NT-414
☐	Highpass-Filter 1800 MHz – 16 GHz	NT-415

Appendix 1 (continued)
Test equipment used

☐	Highpass-Filter 3500 MHz – 18 GHz	NT-416
☐	RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417
☐	RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418
☐	RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419
☐	RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421
☐	RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423
☐	RF-Attenuator 30 dB	NT-424
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426
☐	RF-Attenuator 6 dB	NT-428
☐	RF-Attenuator 0 dB - 81 dB	NT-429
☐	WRU 27 - Band blocking 27 MHz	NT-430
☐	WHJ450C9 AA - High pass 450 MHz	NT-431
☐	WHJ250C9 AA - High pass 250 MHz	NT-432
☐	RF-Load 150 W	NT-433
☐	Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-436
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-437
☐	RF-Attenuator DC – 18 GHz 10 dB	NT-438
☐	RF-Attenuator DC – 18 GHz 20 dB	NT-439
☐	I+P 7780 Directional coupler 100 - 2000 MHz	NT-440
☐	ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441
☐	Power Divider 6 dB/1 W/50 Ohm	NT-443
☐	Directional coupler 0,1 MHz – 70 MHz	NT-444
☐	Directional coupler 0,1 MHz – 70 MHz	NT-445
☐	Tube imitations according to EN 55015	NT-450
☐	FCC-801-M3-16A Coupling decoupling network	NT-458
☐	FCC-801-M2-50A Coupling decoupling network	NT-459
☐	FCC-801-M5-25 Coupling decoupling network	NT-460
☐	FCC-801-AF10 Coupling decoupling network	NT-461
☐	FCC-801-S25 Coupling decoupling network	NT-462
☐	FCC-801-T4 Coupling decoupling network	NT-463
☐	FCC-801-C1 Coupling decoupling network	NT-464
☐	SW 9605 - Current probe 150 kHz – 30 MHz	NT-465/1
☐	95242-1 – Current probe 1 MHz – 400 MHz	NT-468
☐	94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
☐	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
☐	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
☐	Van der Hoofden Test Head	NT-484
☐	EMC Video/Audiosystem	NT-511/1
☐	ES-K1 Version 1.71 SP2 Test software	NT-520
☐	EMC32 Version 10.60.10 Test software	NT-520/1
☐	SRM-TS Version 1.3 software for SRM-3000	NT-522
☐	SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
☐	Spitzenberger und Spies Test software V4.1	NT-525
☐	Noise power test apparatus according to EN 55014	NT-530
☐	Vertical coupling plane (ESD)	NT-531
☐	Test cable #4 for EN 61000-4-6	NT-553
☐	Test cable #3 for conducted emission	NT-554
☐	Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
☐	Test cable #8 Sucoflex 104EA	NT-559
☐	Test cable #9 (for outdoor measurements)	NT-580
☐	Test cable #10 (for outdoor measurements)	NT-581
☐	Test cable #13 Sucoflex 104PE	NT-584
☐	Test cable #21 for SRM-3000	NT-592
☐	Shield chamber	NT-600
☐	Climatic chamber	M-1200

Appendix 1 (continued)
Test equipment used

☐	Anechoic Chamber 3 m / 5 m measuring distance	EMV-100
☐	Turntabel 6 m diameter	EMV-101
☐	Antenna mast + controller	EMV-102+ EMV-103
☐	EMC Video/Audiosystem	EMV-104
☐	EMC Software EMC32 Version 10.60.10	EMV-105
☐	Hornantenna 1 – 18 GHz HF 907	EMV-110
☐	Antennapre.amp. 1 – 18 GHz ERZ-LNA0200-1800-30-2	EMV-111
☐	Trilog Antenna 30-3000 MHz VULB9163	EMV-112
☐	Monopol 9 kHz – 30 MHz VAMP 9243	EMV-113
☐	Antennapre.amp 18 – 40 GHz BBV 9721	EMV-114
☐	Hornantenna 200 – 2000 MHz AH-220	EMV-115
☐	DC Artificial Network PVDC 8300	EMV-150
☐	AC Artificial Network NNLK 8121 RC	EMV-151
☐	EMI Receiver ESR26	EMV-200
☐	Signalgenerator 9 kHz – 40 GHz N5173B	EMV-201
☐	GPS Frequency normal B-88	EMV-202
☐	DC Power supply N5745A	EMV-203
☐	Spektrum Analyzator FSV40	EMV-205
☐	Thd Multimeter Model 2015	EMV-206
☐	Poweramplifier PAS15000	EMV- 207/abc
☐	Inrush Current Source	EMV- 208/abc
☐	Arb.-generator Sycore	EMV-209
☐	Harmonics/Flicker analyzer ARS 16/3	EMV-210
☐	HF- Ampflifier 9 kHz-250 MHz BBA150	EMV-300
☐	HF- Amplifier 80 -1000 MHz BBA150	EMV-301
☐	HF- Amplifier 0,8 - 6 GHz BBA150	EMV-302
☐	High Power Ant. 20-200 MHz HPBA-2510	EMV-303/1
☐	Log.per Antenna 80-2700 MHz STLP 9128 E special	EMV-304
☐	Log.per Antenna 0,7 – 9 GHz STLP9149	EMV-305
☐	HF- Ampflifier 9 kHz-250 MHz BBA150 (low noise)	EMV-306
☐	ISO11451-2 TLS 10 kHz – 30 MHz	EMV-307
☐	Load Dump Generator LD 200N	EMV-350
☐	Ultra Compact Symulator UCS 200N100	EMV-351
☐	Automotive Power fail module PFM 200N100.1	EMV-352
☐	Voltage Drop Symulator VDS 200Q100	EMV-353
☐	Arb. Generator AutoWave	EMV-354
☐	Ultra Compact Symulator UCS 500N7	EMV-355
☐	Coupling decoupling network CNI 503B7 / 32 A	EMV-356
☐	Coupling decoupling network CNI 503B7 / 63 A	EMV-357
☐	Telecom Surge Generator TSurge 7	EMV-358
☐	Coupling decoupling network CNI 508N2	EMV-359
☐	Coupling decoupling network CNV 504N2.2	EMV-360
☐	Immunity generator NSG4060/NSG4060-1	EMV-361
☐	Coupling network CDND M316-2	EMV-362
☐	Coupling network CT419-5	EMV-363
☐	ESD Generator NSG 437	EMV-364
☐	Pulse Limiter VTSD 9561-F BNC	EMV-405
☐	Transient emission BSM200N40+BS200N100	EMV- 450+451
☐	Cap. Coupling Clamp HFK	EMV-455
☐	Mag. Field System MS100N+MC26100+MC2630	EMV- 456-458
☐	Coupling network CDN M2-100A	EMV-459
☐	Coupling network CDN M3-32A	EMV-460
☐	Coupling network CDN M5-100A	EMV-461
☐	Current Clamp CIP 9136A	EMV-462
☐	DC Artificial Network HV-AN 150	EMV- 464+465
☐	Coupling Clamp EM 101	EMV-466
☐	Decoupling Clamp FTC 101	EMV-467
☐	Power attenuator 10 dB / 250 Watt	EMV-469/2

Appendix 2
Photodocumentation

Description: General view #1

Division:
Industry & Energy

Department: FG

Test report reference:
INE-AT/FG-20/132

Date: 09.04.2020

Appendix 2
Photodocumentation

Description: General view #1

Division:
Industry & Energy

Department: FG

Test report reference:
INE-AT/FG-20/132

Date: 09.04.2020

Appendix 2
Photodocumentation

Description: Battery compartment opened

Appendix 2
Photodocumentation

Description: Microphone detached

Appendix 2
Photodocumentation

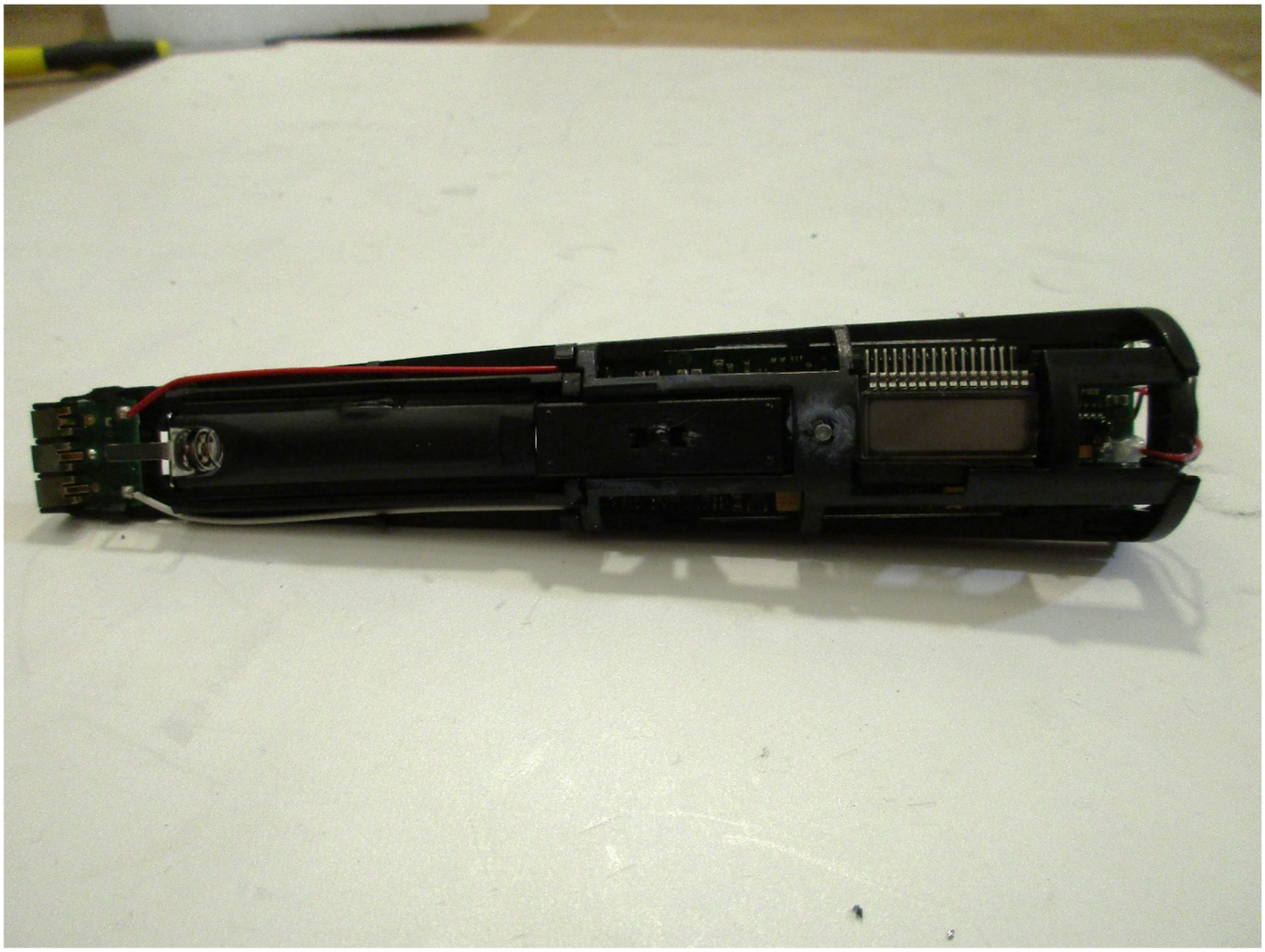
Description: Case opened view #1

Division:
Industry & Energy

Department: FG

Test report reference:
INE-AT/FG-20/132

Date: 09.04.2020



Appendix 2
Photodocumentation

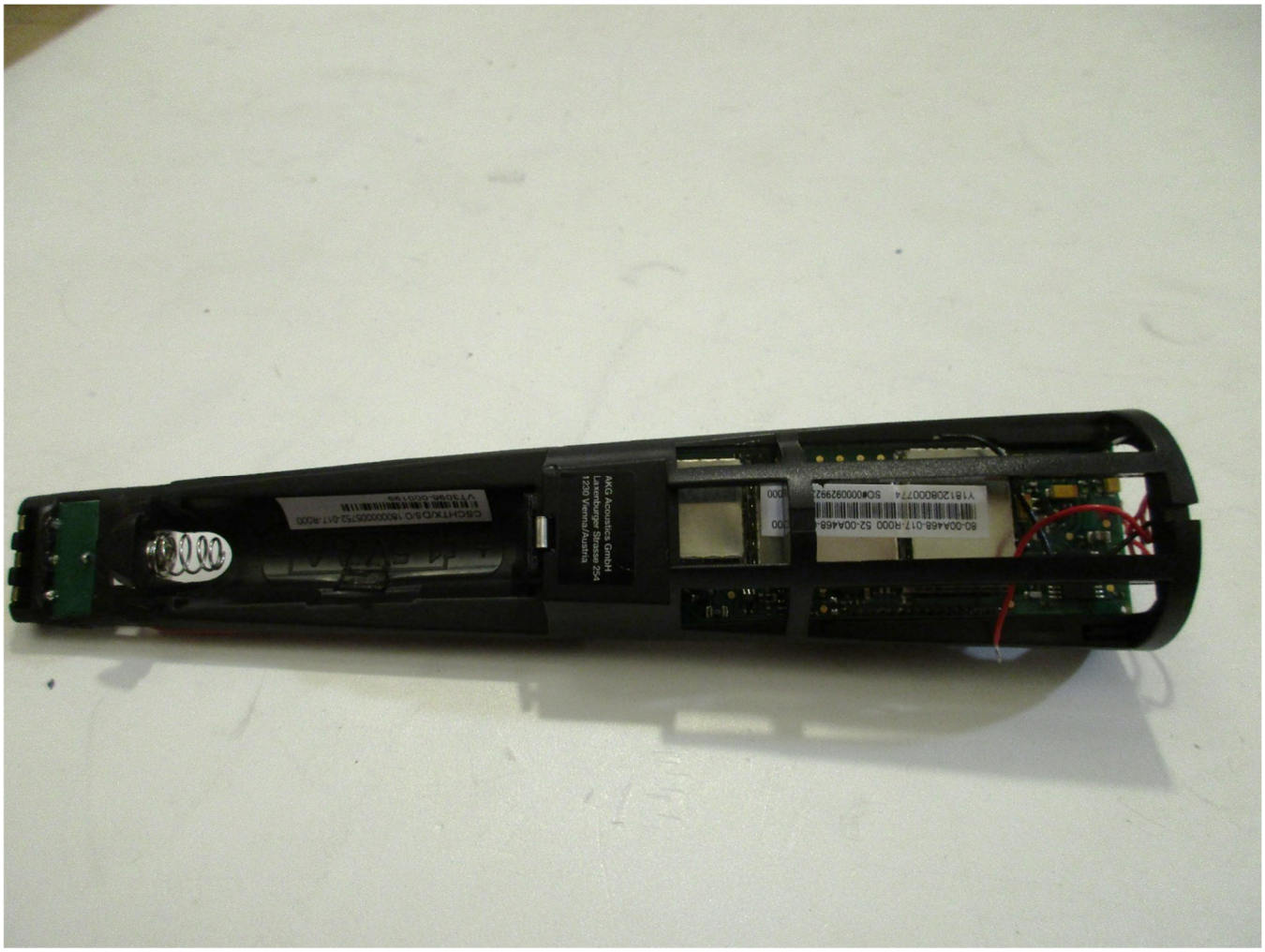
Description: Case opened view #2

Division:
Industry & Energy

Department: FG

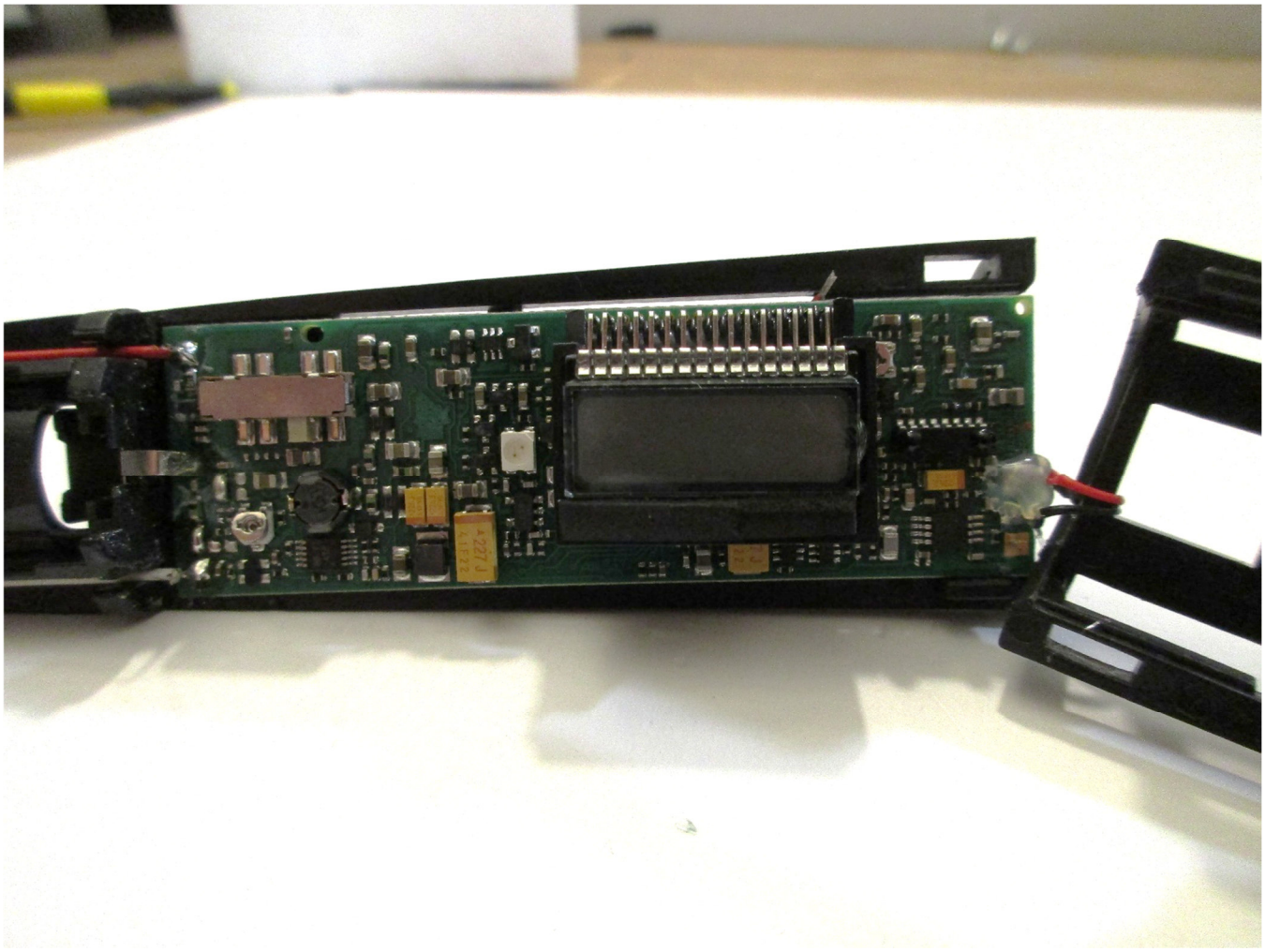
Test report reference:
INE-AT/FG-20/132

Date: 09.04.2020



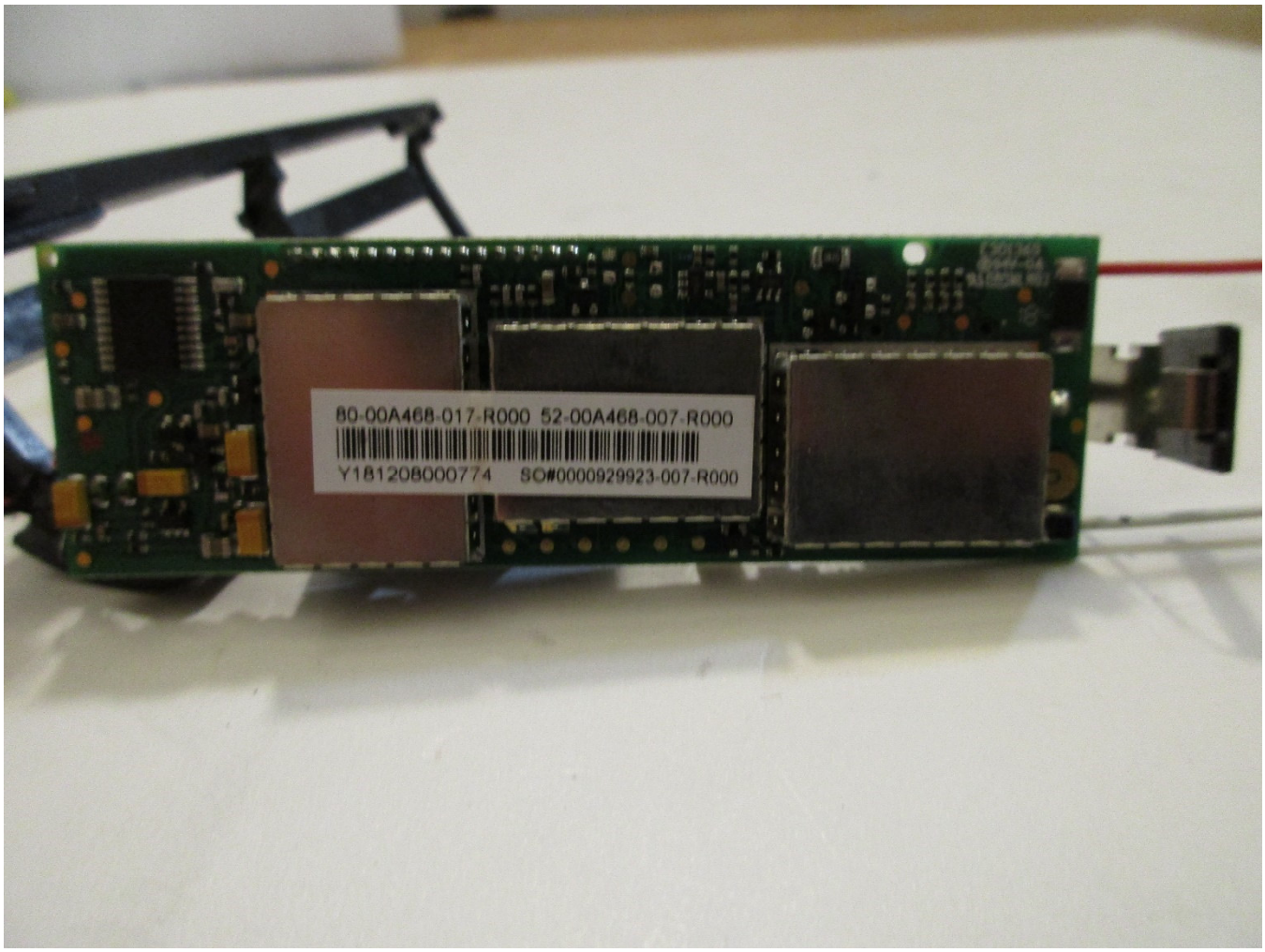
Appendix 2
Photodocumentation

Description: Case opened view #3



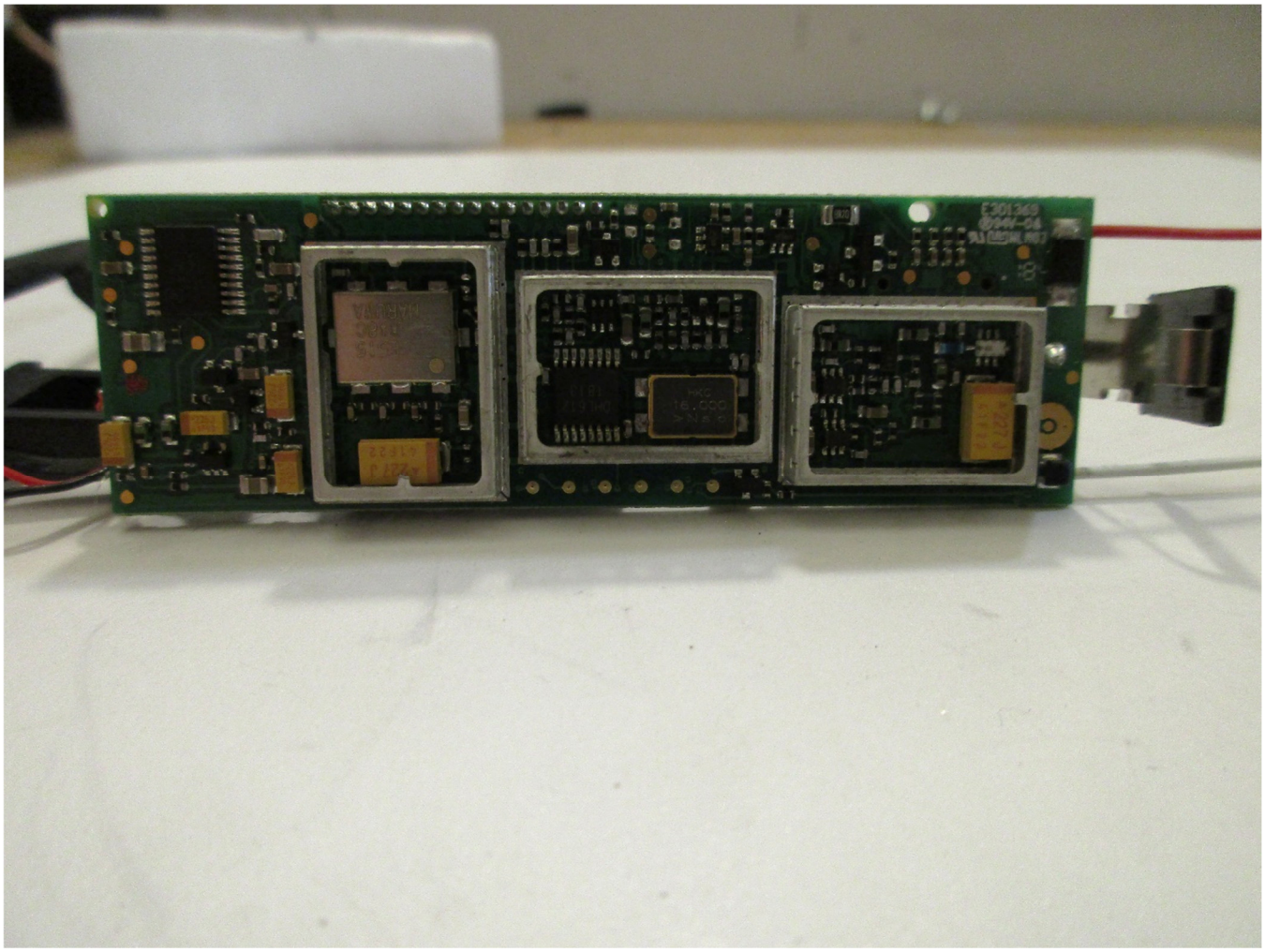
Appendix 2
Photodocumentation

Description: Case opened view #4



Appendix 2
Photodocumentation

Description: Shielding detached



Appendix 2
Photodocumentation

Description: Test setup