

Test Report

of the accredited Testing Laboratory
0274 – TÜV AUSTRIA GMBH – Location Vienna - EMC Radio
ISED Laboratory Company Number: 2932K, CAB identifier: AT0001

Order Confirmation Number: 2024-AT-TC-EE-ET-EX-0-000176

About

the Radio - test listed below

Applicant: Certification Company BV
Veluwezoom 42
1327 AH Almere
The Netherlands

Tested product: Radar System

Product Name: IRIS-Radar

Model: RRS-IRIS/A2/F9650

Accredited regulation: FCC: 47 CFR Part 90 (eCFR 16.01.2025)
ANSI C63.26-2015

Not-accredited regulation: Safety Code 6:2015

Andreas Malek



Examined by / Testing Laboratory
TÜV AUSTRIA GMBH



Michael Emminger



Approved by / Testing Laboratory
TÜV AUSTRIA GMBH

The results of this test report only refer to the provided equipment.

Issued on 16.06.2025 in Vienna / TIC

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1. Applicant

Company: Certification Company BV

Department: Regulatory Compliance Expert

Address: Veluwezoom 42
1327 AH Almere
The Netherlands

Contact person: Mr. David Rubio Borrajo

EUT received on: 16.01.2025

Tests were performed on: 16.01 – 20.01.2025

2. Description of EUT

EUT: Radar System 'RRS-IRIS/A2/F9650'

Serial Number: 185#214

Manufacturer: Robin Radar Systems B.V.
Laan van Waalhaven 355
2497 GM The Hague – The Netherlands

Description: Certification Company BV provided the following configuration for the measurements:

Radar System 'RRS-IRIS/A2/F9650' in conjunction with:
Mobile Processing Station 'RRS-IRIS-MPS/A2'
Breakout Box 'RRS-IRIS-2U-BOB/230VAC/A2'

Operating mode: The measurements were carried out at the following running states:

continuously operating radar system

Technical data EUT: Rated voltage: 48V
Rated current: 7A
Rated frequency: DC

Mains voltage during the tests: 48V DC

FCC-ID: 2A5YR-IRISA2F9650
Frequency: 9650 MHz
Output power: 2 x 12 W conducted (2 Antennas pointing in opposite direction)
Antenna gain: 23dBi (transmit antennas); 27 dBi (receive antennas)

Climatic conditions in the emc laboratory: Relative humidity: 18%
Temperature: 23°C

3. Standards / Final result

Name	Title	Deviation	Result
FCC: 47 CFR Part 90 (eCFR 16.01.2025)	PRIVATE LAND MOBILE RADIO SERVICES	none	OK
ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services	none	OK
Safety Code 6:2015	LIMITS OF HUMAN EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC ENERGY IN THE FREQUENCY RANGE FROM 3 KHZ TO 300 GHZ	none	OK
Result: Opinions and interpretation of testing laboratory OK: EUT passed NOK: EUT failed			

4. Test results

4.1 TEST OBJECT DATA

General EUT Description

This fixed transceiver is a rotating radar working on a fixed center frequency of 9650MHz.

2.1033 (c) Technical description

2.1033 (7) Type of emission: FMCW with 50 MHz sweep range – ITU emission designator: 55M0F0N

2.1033 (8) Frequency range: fixed center operating frequency: 9650 MHz

2.1033 (9) Power range and Controls: The maximum declared output power is 12 Watts into two antennas pointing in opposite directions. There is no power control or regulation accessible to the user.

2.1033 (10) Maximum output power rating: 2x12 Watts conducted power with 23 dBi antenna gain.

2.1033 (11) DC Voltage and Current to the final stages: 8 VDC
maximum current consumption: 5,7 A

Tests were performed on: January 16th till 20th 2022.

4.2 RF POWER OUTPUT

§ 2.1046

Conducted measurement is not possible, as there is no coaxial or waveguide connector output at the final stages. The final stages outputs are directly mounted on the antenna panel, therefore only radiated measurement was performed.

Declared conducted output power by the manufacturer: 2 x 12 Watts.

Declared antenna gain: 23 dBi (transmit antennas).

Radiated measurement at three meter measurement distance

Test conditions	Transmitter EIRP (dBm)		
		9650 MHz	
T _{nom} (23)°C		59,96	
Measurement uncertainty	± 2 dB		

Remark: as the antenna is quite big for the used frequency, measurements at three meter distance are in the near field region and therefore measurement is informal only.

LIMIT SUBCLAUSE 90.205 (r)

Requested transmitter power will be considered and authorized on a case by case basis.

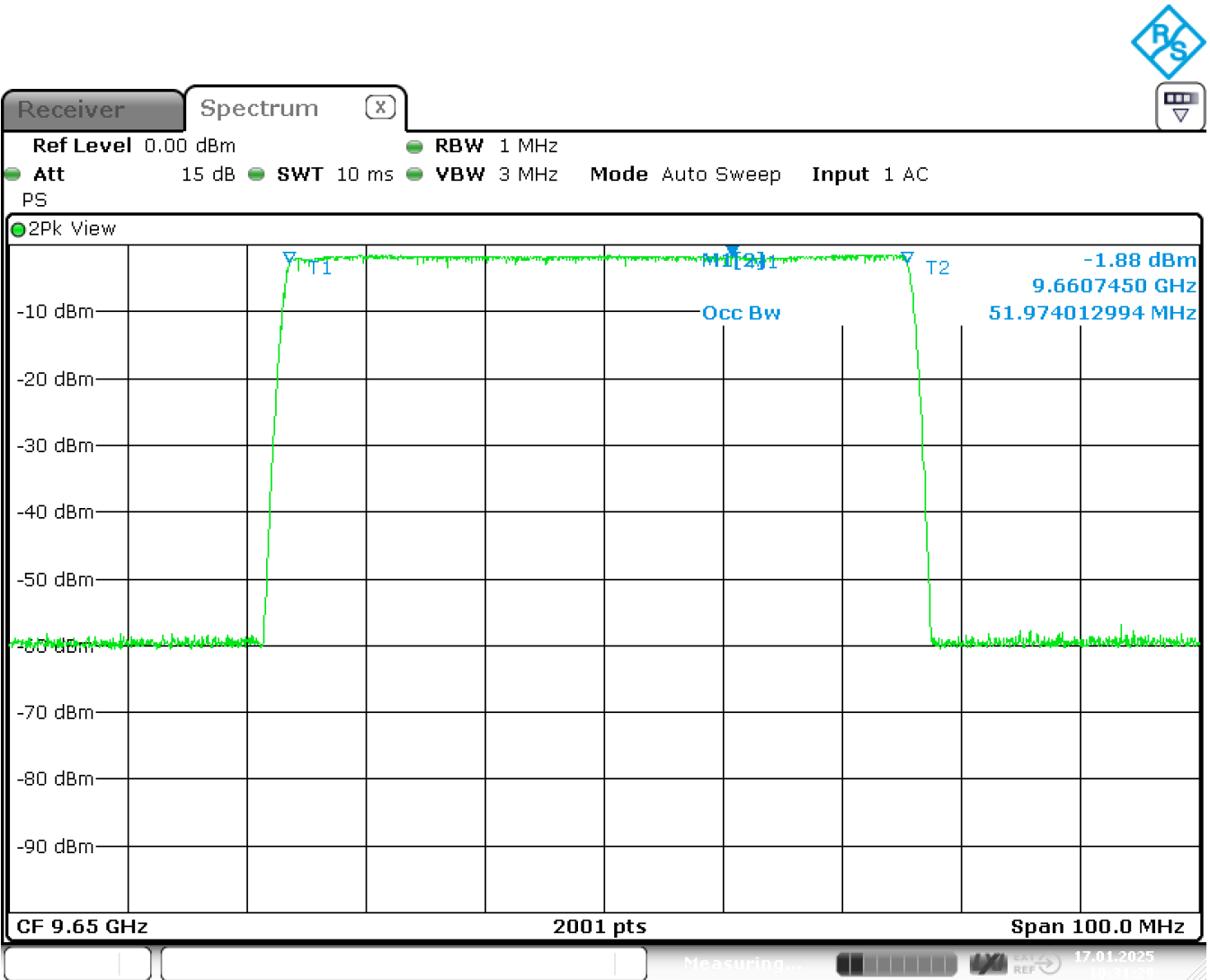
Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-139; NT-207/1

4.3 99% OCCUPIED BANDWIDTH

§ 2.1049

Radiated Measurement

Center Frequency: 9650 MHz



Date: 17.JAN.2025 10:31:30

99% Bandwidth: 51,974 MHz

LIMIT SUBCLAUSE 90.209(b)(5)

Bandwidths for radiolocation stations in the frequency range above 2500 MHz will be reviewed and authorized on a case-by-case basis.

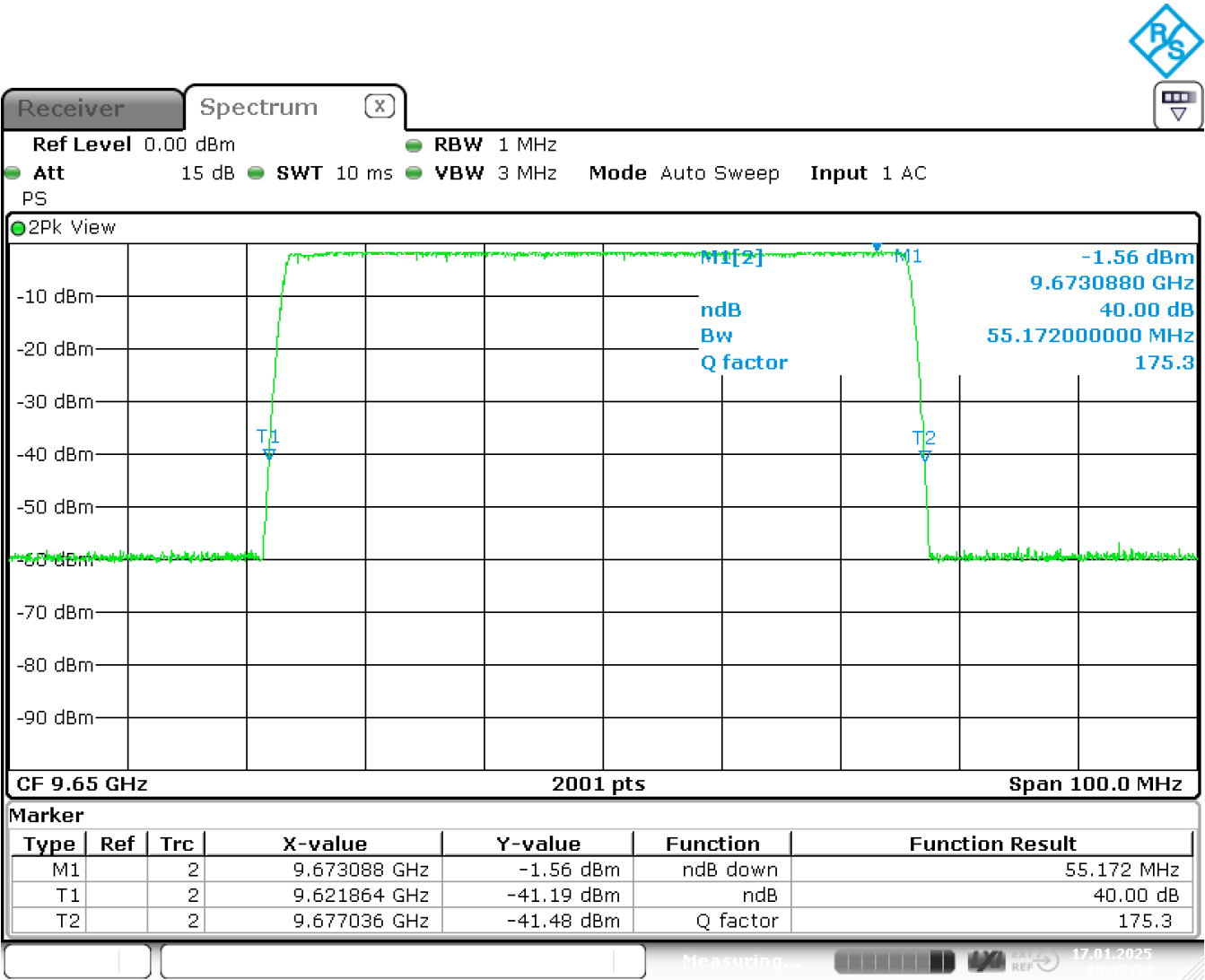
Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-139; NT-207/1

4.4 40 dB Authorized Bandwidth

§ ITU-R M.1177-4

Radiated Measurement

Center Frequency: 9650 MHz



Date: 17.JAN.2025 10:32:34

40 dB Bandwidth: 55,172 MHz rounded to 55 MHz

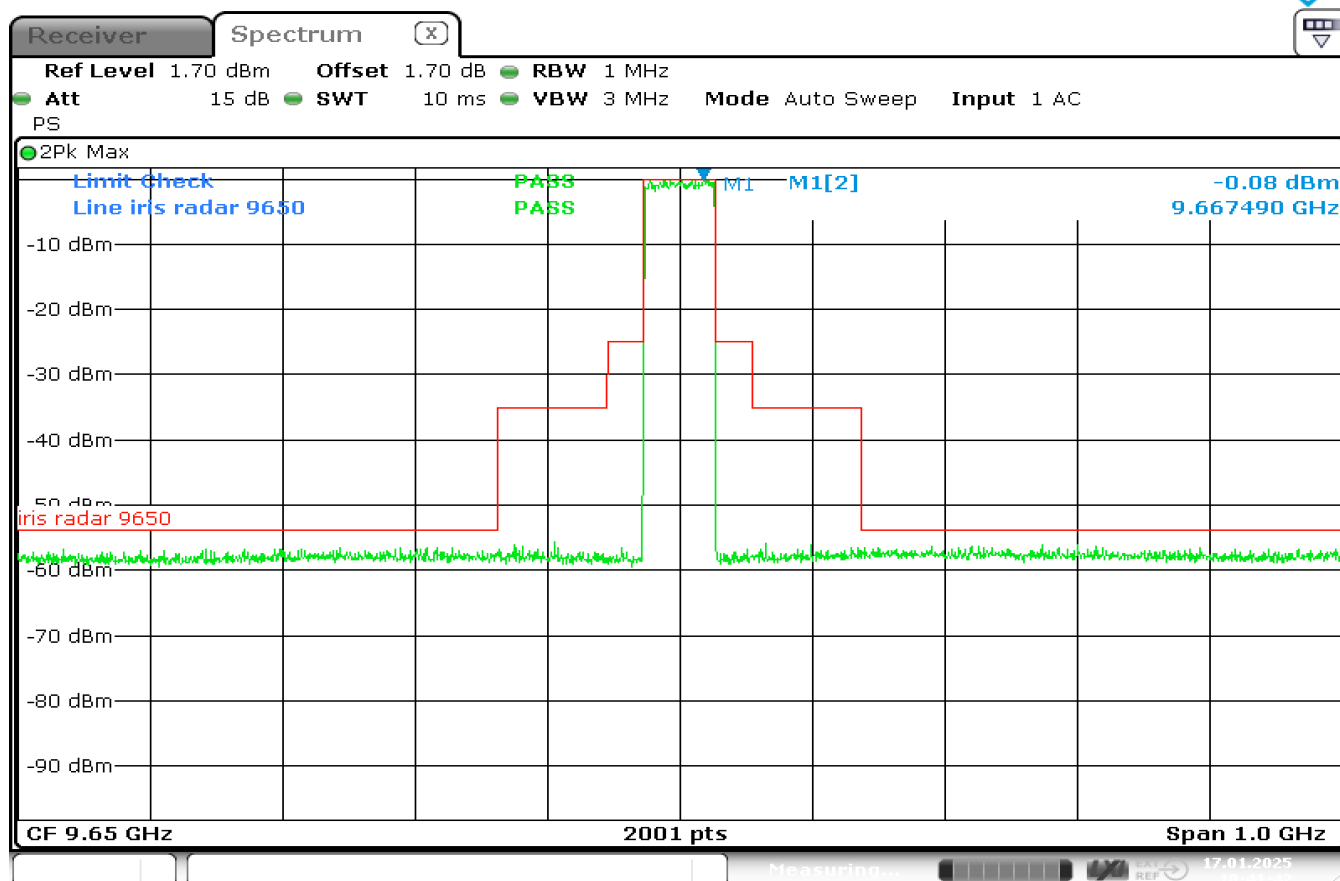
Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-139; NT-207/1

4.5 EMISSION MASK

§ 90.210

Radiated Measurement

Center Frequency: 9650 MHz



Date: 17. JAN. 2025 10:41:43

LIMIT

SUBCLAUSE 90.210(b)

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log (P)$ dB. -> With a Power of 12 W this equation results in 53.79 dB.

Authorized Bandwidth (40 dB Bandwidth): 55 MHz

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

Grundvorlage / Basic Template: FM-TAGMBH-KBS-0100b Grundvorlage Prüfbericht akkreditiert-DE-EN, Rev. 04

4.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

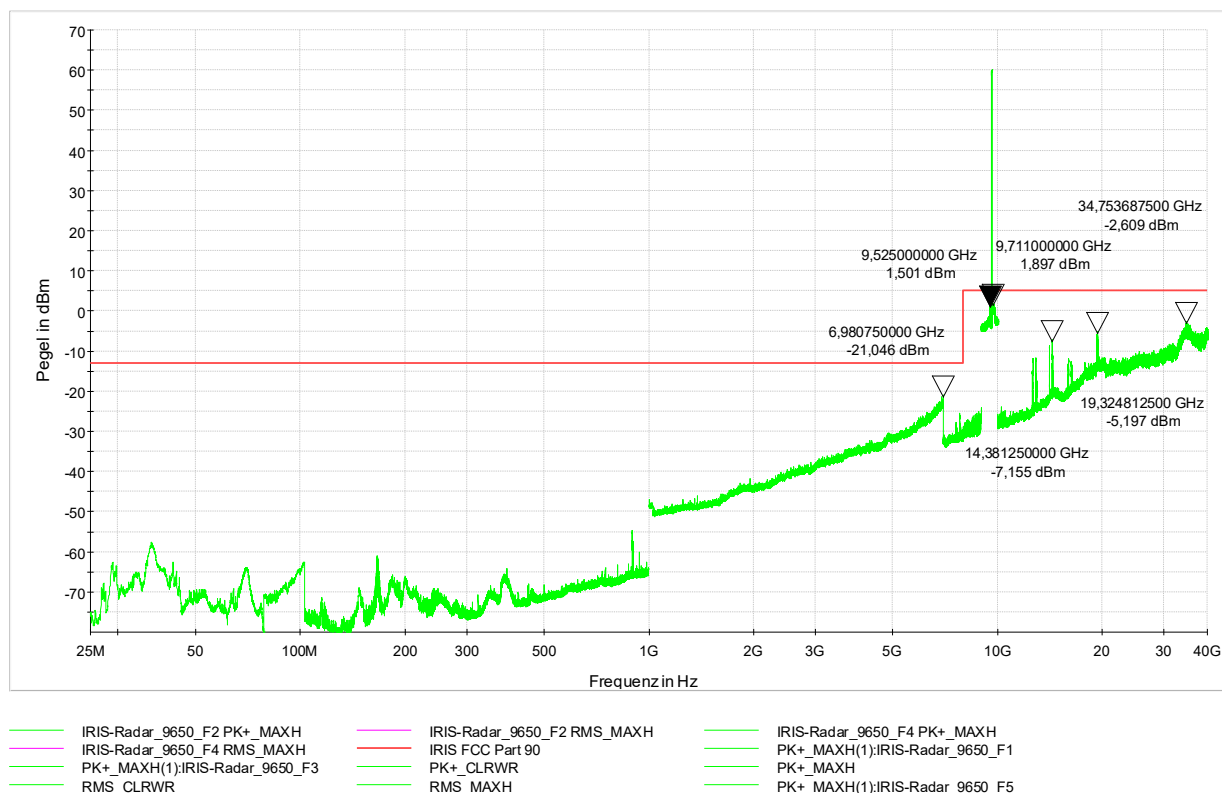
§ 2.1051

Conducted measurement is not possible, as there is no coaxial or waveguide connector output at the final stages. The final stages outputs are directly mounted on the antenna panel, therefore only radiated measurement was performed.

4.7 FIELD STRENGTH OF SPURIOUS RADIATION

§ 2.1053

Center Frequency: 9650 MHz



LIMIT

SUBCLAUSE 90.210(b)

Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log(P)$ dB. -> With a Power of 12 W this equation results in 53.79 dB.

Remark: at frequencies below 8 GHz, the more stringent limit of -13dBm EIRP (assuming 0dBi antenna gain) was checked.

Test Equipment used: NT-100; NT-110/1; NT-111/1; NT-112/1; NT-126; NT-131/1; NT-139; NT-207/1

4.8 FREQUENCY STABILITY**§ 2.1055**

Center Frequency: 9650 MHz

Temperature [°C]	Center frequency [MHz]
-30	9649,997
-20	9650,030
-10	9650,046
0	9650,044
10	9650,029
20	9650,009
30	9649,989
40	9649,977
50	9649,971

LIMIT**SUBCLAUSE 90.213**

Above 2450 MHz: Frequency stability for DSRCS equipment in the 5895-5925 MHz band is specified in subpart M of this part. For all other equipment, frequency stability is to be specified in the station authorization.

Radiolocation Service frequency band: 9500-10000 MHz, This frequency is shared with and is on a secondary basis to the Government Radiolocation Service.

Test Equipment used: EMV-205; M-1200

4.9 RADIOFREQUENCY RADIATION EXPOSURE LIMITS

§ 1.1310, Safety Code 6

	Spatial averaged MPE over 0 – 2 meters height [mW/cm ²]
Distance to the axis of rotation [cm]	Operating center Frequency: 9650 MHz
20	0,866

Measurements performed according to OET Bulletin 65.

Vertical maximum at 20cm distance: 2,044 mW/cm².

During the measurement the radar transmitter was operated with the antenna rotating.

The accuracy of the average measurement during rotation was checked by comparison of the maximum value of the power density with the radar not rotating weighed by a time averaging factor (using a spectrum analyser power average over 1 second in time, which is equal to one rotation cycle) and the measured value of the average power density during rotation. Both the average value calculated from the measured maximum weighed by the time averaging factor, as well as the direct measured average value were found to be equal.

LIMIT SUBCLAUSE 1.1310 (e)(1)(ii)

Limit for General Population/Uncontrolled Exposure in the frequency range 1500 – 100000 MHz is 1.0 mW/cm².

LIMIT Safety Code 6, 2.2.2

TABLE 5: Reference Levels for Electric Field Strength, Magnetic Field Strength and Power Density in Uncontrolled Environments

Frequency (MHz)	Electric Field Strength (E_{RL}), (V/m, RMS)	Magnetic Field Strength (H_{RL}), (A/m, RMS)	Power Density (S_{RL}), (W/m ²)	Reference Period (minutes)
10–20	27.46	0.0728	2	6
20–48	$58.07 / f^{0.25}$	$0.1540 / f^{0.25}$	$8.944 / f^{0.5}$	6
48–300	22.06	0.05852	1.291	6
300–6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000–15000	61.4	0.163	10	6
15000–150000	61.4	0.163	10	$616000 / f^{1.2}$
150000–300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000 / f^{1.2}$

Frequency, f , is in MHz.

Limit for radar frequency range 9600-9700 MHz: $10 \text{ W/m}^2 = 1.0 \text{ mW/cm}^2$

Overall frequency band of the radar system: 9600-9700 MHz

Test Equipment used: NT-100; EMV-205; NT-240a-e

Appendix 1

Test equipment used

☐ Anechoic Chamber with 3m measurement distance	NT-100	☐ Ant. tripod for EN61000-4-3 Model TP1000A	NT-156
☐ Stripline according to ISO 11452-5	NT-108	☐ Power quality analyzer Fluke 1760 (complete set)	NT-160 - NT-173
☐ MA4000 - Antenna mast 1 - 4 m height	NT-110/1		
☐ DS - Turntable 0 - 400 ° Azimuth	NT-111/1	☐ ESCI - Test receiver 9 kHz - 7 GHz	NT-203/1
☐ CO3000 Controller Mast+Turntable	NT-112/1	☐ ESR – Test receiver 20 Hz – 26,5 GHz	NT-207/1
☐ HUF-Z3 - Log. Per. Antenna 200 - 1000 MHz	NT-121	☐ Digital Radio Tester CMW500	NT-208/1
☐ FMZB1513 - Loop Antenna 9 kHz - 30 MHz	NT-122/1	☐ Noise-gen., ITU-R 559-2 20 Hz – 20 kHz	NT-209
☐ HFH-Z6 - Rod Antenna 9 kHz - 30 MHz	NT-123	☐ CMTA - Radiocommunication analyzer ; 0,1 - 1000 MHz	NT-210
☐ Dipole Antenna VHA9103 30 - 300 MHz	NT-124/1a	☐ 3271 - Spectrum analyzer 100 Hz - 26,5 GHz	NT-211
☐ Dipole Antenna UHA9105 300 - 1000 MHz	NT-124/1b	☐ 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 FS-Z60 40 GHz – 60 GHz	NT-218/1
☐ HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-129	☐ Mixer FS-Z90 60 GHz – 90 GHz	NT-219/1
☐ HK-116 - bicon. Antenna 20 MHz - 300 MHz	NT-130	☐ GDS-2504 Digital scope	P-W/OS03
☐ 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	☐ SRM-3006 Spectrumalyzer	NT-233/1a
☐ Horn Antenna 500 MHz - 6000 MHz	NT-133/1	☐ E-field probe SRM 75 MHz – 3 GHz	NT-234
☐ Log. per. Antenna 800 MHz - 2500 MHz	NT-134	☐ Field Meter NBM-500 incl. E- and H-Field probes	NT-240a-e
☐ Log. per. Antenna 800 MHz - 2500 MHz	NT-135	☐ Magnetometer HP-01	NT-241/1
☐ BiConiLog Antenna 26 MHz – 2000 MHz	NT-137	☐ EFA-3 H-field- / E-field probe	NT-243
☐ Conical Dipol Antenna PCD8250	NT-138	☐ EHP-50F H-field- / E-field probe	NT-243/1
☐ HF 906 - Horn Antenna 1 - 18 GHz (emission)	NT-139	☐ Field Meter EMR-200 100 kHz – 3 GHz	NT-244
☐ HZ-1 Antenna tripod	NT-150	☐ E-field probe 100 kHz – 3 GHz	NT-245
☐ BN 1500 Antenna tripod	NT-151	☐ H-field probe 300 kHz – 30 MHz	NT-246

Competence Center:
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Test equipment used

☐ E-field probe 3 MHz – 18 GHz	NT-247	☐ Prana N-MT 500 - RF-Amplifier 80 - 1000 MHz / 500 W	NT-332/1
☐ H-field probe 27 MHz – 1 GHz	NT-248	☐ BBA150 RF-Amplifier 1 GHz - 6 GHz	NT-333/1
☐ ELT-400 1 Hz – 400 kHz	NT-249	☐ APA01 – RF-Amplifier 0,5 GHz – 2,5 GHz	NT-334
☐ MDS 21 - Absorbing clamp 30 - 1000 MHz	NT-250	☐ Preamplifier 1 GHz - 4 GHz	NT-335
☐ CDN EMCL-35 EM Injection clamp	NT-251/1	☐ Preamplifier for GPS MKU 152 A	NT-336
☐ FCC-203I-DCN Ferrite decoupling network	NT-252	☐ Preamplifier 1 GHz – 18 GHz	NT-337/1
☐ PR50 Current Probe	NT-253	☐ DC Block 10 MHz – 18 GHz Model 8048	NT-338
☐ i310s Current Probe	NT-254/1	☐ 2-97201 Electronic load	NT-341
☐ Fluke 87 V True RMS Multimeter	NT-260	☐ TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-344
☐ Model 2000 Digital Multimeter	NT-261	☐ TSX3510P - Power supply 0-30 V / 0 - 10 A	NT-345
☐ Fluke 87 V Digital Multimeter	NT-262/1	☐ VDS 200 Mobil-impuls-generator	NT-350
☐ ESH2-Z5-U1 Artificial mains network 4x25A	NT-300	☐ LD 200 Mobil-impuls-generator	NT-351
☐ ESH3-Z5-U1 Artificial mains network 2x10A	NT-301	☐ MPG 200 Mobil-Impuls-Generators	NT-352
☐ ESH3-Z6-U1 Artificial mains network 1x100A	NT-302	☐ EFT 200 Mobil-impuls-generator	NT-353
☐ ESH3-Z6-U1 Artificial mains network 1x100A	NT-302a	☐ AN 200 S1 Artificial Network	NT-354
☐ EZ10 T-Artificial Network	NT-305	☐ FP-EFT 32M 3 ph. Coupling filter (Burst)	NT-400/1
☐ SMA100A - Signal generator 9 kHz - 6 GHz	NT-310/1	☐ PHE 4500 - Mains impedance network	NT-401
☐ RefRad Reference generator	NT-312	☐ IP 6.2 Coupling filter for data lines (Surge)	NT-403
☐ SMP 02 Signal generator 10 MHz - 20 GHz	NT-313	☐ TK 9421 High Power Volt. Probe 150 kHz - 30 MHz	NT-409
☐ 40 MHz Arbitrary Generator TGA1241	NT-315	☐ ESH2-Z3 - Probe 9 kHz - 30 MHz	NT-410
☐ Artificial mains network NSLK 8127-PLC	NT-316	☐ CN-EFT1000 - Capacitive clamp (Burst)	NT-411/1
☐ PSURGE 4.1 Surge generator	NT-324	☐ Highpass-Filter 100 MHz – 3 GHz	NT-412
☐ IMU4000 Immunity test system	NT-325/1a-e	☐ Highpass-Filter 600 MHz – 4 GHz	NT-413
☐ VCS 500-M6 Surge-Generator	NT-326	☐ Highpass-Filter 1250 MHz – 4 GHz	NT-414
☐ Oscillatory Wave Simulator incl. Coupling networks	NT-328a+b+c	☐ Highpass-Filter 1800 MHz – 16 GHz	NT-415
☐ BTA-250 - RF-Amplifier 9 kHz - 220 MHz / 250 W	NT-330		

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Test equipment used

☐	RF-Attenuator 10 dB DC – 18 GHz / 50 W	NT-417/1	☐	95242-1 – Current probe 1 MHz – 400 MHz	NT-468
☐	RF-Attenuator 6 dB DC – 18 GHz / 50 W	NT-418	☐	94106-1L-1 – Current probe 100 kHz – 450 MHz	NT-471
☐	RF-Attenuator 3 dB DC – 18 GHz / 50 W	NT-419	☐	WHKX12-2700-3000-18000 3 GHz Highpass filter	NT-472
☐	RF-Attenuator 20 dB DC - 1000 MHz / 25 W	NT-421	☐	WHKX10-3870-4500-18000 4,5 GHz Highpass filter	NT-473
☐	RF-Attenuator 30 dB DC - 1000 MHz / 1 W	NT-423	☐	CDN S9 USB3.0 Coupling decoupling network	NT-474
☐	RF-Attenuator 30 dB	NT-424	☐	CDN S2 XLR3-1 Coupling decoupling network	NT-475
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-425	☐	CDN S8 RJ45 Coupling decoupling network	NT-476
☐	RF-Attenuator 6 dB DC - 1000 MHz / 1 W	NT-426	☐	GA 1240 Power amplifier according to EN 61000-4-16	NT-480
☐	RF-Attenuator 6 dB	NT-428	☐	Coupling networks according to EN 61000-4-16	NT-481 - NT-483
☐	RF-Attenuator 0 dB - 81 dB	NT-429	☐	Van der Hoofden Test Head	NT-484
☐	WRU 27 - Band blocking 27 MHz	NT-430	☐	WRCJV12-5820-5850-5950-5980 5,9 GHz Band Reject Filter	NT-490
☐	WHJ450C9 AA - High pass 450 MHz	NT-431	☐	WHKX10-5670-6300-18000 6 GHz Highpass filter	NT-491
☐	WHJ250C9 AA - High pass 250 MHz	NT-432	☐	WHK12-935-1000-7000 1 GHz Highpass filter	NT-492
☐	RF-Load 150 W	NT-433	☐	EMC Video/Audiosystem	NT-511/1
☐	Impedance transducer 1:4 ; 1:9 ; 1:16	NT-435	☐	EMC32 Version 10.60.20 Test software	NT-520/1
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-436	☐	SRM-TS Version 1.3 software for SRM-3000	NT-522
☐	RF-Attenuator DC – 18 GHz 6 dB	NT-437	☐	SRM-TS Version 1.3.1 software for SRM-3006	NT-522/1
☐	RF-Attenuator DC – 18 GHz 10 dB	NT-438	☐	Spitzenberger und Spies Test software V4.1	NT-525
☐	RF-Attenuator DC – 18 GHz 20 dB	NT-439	☐	Vertical coupling plane (ESD)	NT-531
☐	ESH3-Z2 - Pulse limiter 9 kHz - 30 MHz	NT-441	☐	Test cable #4 for EN 61000-4-6	NT-553
☐	Power Divider 6 dB/1 W/50 Ohm	NT-443	☐	Test cable #3 for conducted emission	NT-554
☐	Directional coupler 0,1 MHz – 70 MHz	NT-444	☐	Test cable #5+#6 ESD-cable (2x470k)	NT-555 + NT-556
☐	Directional coupler 0,1 MHz – 70 MHz	NT-445	☐	Test cable #8 Sucoflex 104EA	NT-559
☐	Tube imitations according to EN 55015	NT-450	☐	Test cable #9 (for outdoor measurements)	NT-580
☐	FCC-801-M3-16A Coupling decoupling network	NT-458	☐	Test cable #10 (for outdoor measurements)	NT-581
☐	FCC-801-M2-50A Coupling decoupling network	NT-459	☐	Test cable #13 Sucoflex 104PE	NT-584
☐	FCC-801-M5-25 Coupling decoupling network	NT-460	☐	Test cable #21 for SRM-3000	NT-592
☐	FCC-801-T4 Coupling decoupling network	NT-463	☐	Shield chamber	NT-600
☐	FCC-801-C1 Coupling decoupling network	NT-464	☐	Climatic chamber	M-1200
☐	SW 9605 - Current probe 150 kHz – 30 MHz	NT-465/1			

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Test equipment used

☐	Anechoic Chamber 3 m / 5 m measuring distance	EMV-100	☐	HF- Amplifier 9 kHz-225 MHz BBL200	EMV-300/1
☐	Turntable 6 m diameter	EMV-101	☐	HF- Amplifier 80 -1000 MHz BBA150	EMV-301
☐	Antenna mast + controller	EMV-102+ EMV-103	☐	HF- Amplifier 0,8 - 6 GHz BBA150	EMV-302
☐	EMC Video/Audiosystem	EMV-104	☐	High Power Ant. 20-200 MHz HPBA-2510	EMV-303/1
☐	EMC Software EMC32 Version 10.6.2	EMV-105	☐	High Power Ant. 20-200 MHz S12018-21	EMV-303/2
☐	Hornantenna 1 – 18 GHz HF 907	EMV-110	☐	Log.per Antenna 80-2700 MHz STLP 9128 E special	EMV-304
☐	Antennapre.amp. 1 – 18 GHz BBV 9718 D	EMV-111/1	☐	Log.per Antenna 0,7 – 9 GHz STLP9149	EMV-305
☐	Trilog Antenna 30-3000 MHz VULB9163	EMV-112	☐	HF- Amplifier 9 kHz-250 MHz BBA150 (low noise)	EMV-306
☐	Monopol 9 kHz – 30 MHz VAMP 9243	EMV-113	☐	ISO11451-2 TLS 10 kHz – 30 MHz	EMV-307
☐	Antennapre.amp 18 – 40 GHz BBV 9721	EMV-114	☐	Load Dump Generator LD 200N	EMV-350
☐	Hornantenna 200 – 2000 MHz AH-220	EMV-115	☐	Ultra Compact Symulator UCS 200N100	EMV-351
☐	DC Artificial Network PVDC 8300	EMV-150	☐	Automotive Power fail module PFM 200N100.1	EMV-352
☐	AC Artificial Network NNLK 8121 RC	EMV-151	☐	Voltage Drop Symulator VDS 200Q100	EMV-353
☐	AC Artificial Network NNLK 140	EMV- 153a-d	☐	Arb. Generator AutoWave	EMV-354
☐	EMI Receiver ESW44	EMV-200/1	☐	Ultra Compact Symulator UCS 500N7	EMV-355
☐	Signalgenerator 9 kHz – 40 GHz N5173B	EMV-201	☐	Coupling decoupling network CNI 503B7 / 32 A	EMV-356
☐	GPS Frequency normal LBE-1420	EMV-202/1	☐	Coupling decoupling network CNI 503B7 / 63 A	EMV-357
☐	DC Power supply N5745A	EMV-203	☐	Telecom Surge Generator TSurge 7	EMV-358
☐	Spektrum Analyzator FSV40	EMV-205	☐	Coupling decoupling network CNI 508N2	EMV-359
☐	Thd Multimeter Model 2015	EMV-206	☐	Coupling decoupling network CNV 504N2.2	EMV-360
☐	Poweramplifier PAS15000	EMV- 207/abc	☐	Immunity generator NSG4060/NSG4060-1	EMV-361
☐	Inrush Current Source	EMV- 208/abc	☐	Coupling network CDND M316-2	EMV-362
☐	Arb.-generator Sycore	EMV-209	☐	Coupling network CT419-5	EMV-363
☐	Harmonics/Flicker analyzer ARS 16/3	EMV-210	☐	ESD Generator NSG 437	EMV-364
☐	Power Supply Regatron AC	EMV-214	☐	Pulse Limiter VTSD 9561-F BNC	EMV-405
☐	Power Supply Regatron DC	EMV-215	☐	Transient emission BSM200N40+BS200N100	EMV- 450+451
☐	Harmonics/Flicker analyser Zimmer	EMV-216	☐	Cap. Coupling Clamp HFK	EMV-455
☐	Flicker Impedanz Newtons4th 753	EMV-218	☐	Mag. Field System MS100N+MC26100+MC2630	EMV- 456-458
☐	Comemso	EMV-219			

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Appendix 1 (continued)

Test equipment used

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☐	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
☐	HV AMN NNHV 8123 800A	EMV-472
☐	HV AMN NNHV 8123 800A	EMV-473