



EMI - T E S T R E P O R T

- FCC Part 15.209, RSS-GEN -

Type / Model Name : G7115A

Product Description : Diode Array Detector

Applicant : Agilent Technologies Deutschland GmbH

Address : Hewlett-Packard-Strasse 8
76337 Waldbronn, Baden-Württemberg
GERMANY

Manufacturer : Agilent Technologies Singapore (International) Pte. Ltd.

Address : No. 1 Yishun Ave 7
SINGAPORE 768923
SINGAPORE

Test Result according to the standards listed in clause 1 test standards:	POSITIVE
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Test Report No. :	80192414-00 Rev_1	15. October 2024
Date of issue		



FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

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ATTACHMENT A to ATTACHMENT C as separate supplement

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules and Regulations Part 15, Subpart A - General (January 2024)

FCC Rules and Regulations Part 15, Subpart C - Intentional Radiators (January 2024)

Part 15, Subpart C, Section 15.207 Conducted limits

Part 15, Subpart C, Section 15.209 Radiated emission limits, general requirements

RSS Rules and Regulations

RSS-Gen, Issue 5, March 2018 General Requirements and Information for the Certification of
Amendment 1 (March 2019)
Amendment 2 (February 2021) Radiocommunication Equipment

RSS-210, Issue 11, June 2024 Licence-Exempt Radio Apparatus: Category I Equipment

ANSI C63.10: 2013 Testing Unlicensed Wireless Devices

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2 EQUIPMENT UNDER TEST

2.1 Information provided by the Client

Please note, we do not take any responsibility for information provided by the client or his representative which may have an influence on the validity of the test results.

2.2 Sampling

The customer is responsible for the choice of sample. Sample configuration, start-up and operation is carried out by the customer or according his/her instructions.

2.3 Photo documentation of the EUT

Detailed photos see ATTACHMENT A and ATTACHMENT C

ATTACHMENT A: External views

ATTACHMENT B: Internal views

ATTACHMENT C: Test setup



2.4 Short description of the equipment under test (EUT)

The EUT is a Diode Array Detector is for highest optical performance.

Two internal 125 kHz antennas are located in the device. The TAG reader reads sequentially each antenna.

Number of tested samples: 1
 Serial number: DEAC626152

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2.5 Variants of the EUT

According to the customer, there are other variants of this device.

It is expressly pointed out here, that no measurements have been carried out on these devices!

G7165A Multiple Wavelength detector (MWD) Multiple wavelength detection with up to 80 Hz data rates.

2.6 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

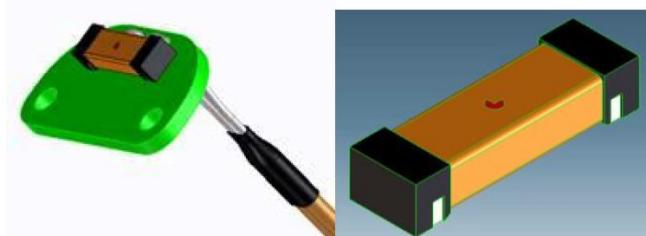
- Cont. TAG reading at 125 kHz (all antennas are read sequentially)

2.7 Antenna

Antenna: 125KHz

Agilent PN 9140-5210: PCB Mountable Part • IND-FXD 900uH 5% 10mA 3.6X11.8mm SMT

Manufacturer: Premo, SDTR1103-0090J



2.8 EUT configuration

The following peripheral devices and interface cables were connected during the measurements:

- 5 Port Gigabit Switch
- Measurement Laptop
-

Model : Netgear – GS105 v4

Model : HP – EliteBook 840 (CSA No.:01-01/01-15-019)

Model :

2.9 Power supply system utilised

Power supply voltage : 100 – 240 V AC, 50 or 60 Hz

All tests were carried out with a supply voltage of 120 V, 60 Hz unless otherwise stated. Exceptions are described in the detailed test conditions.

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3 TEST RESULT SUMMARY

FCC Rule Part	RSS Rule Part	Description	Result
15.207	RSS-Gen, 8.8 RSS-210, 7	AC power line conducted emissions	passed
15.209	RSS-Gen, 8.9 RSS-210, 7	Field strength of fundamental	passed
15.209	RSS-Gen, 8.9 RSS-210, 7	Spurious emissions	passed
15.215	RSS-Gen, 6.7 RSS-210, 7	Occupied bandwidth	passed

3.1 Revision history of test report

Test report No	Rev.	Issue Date	Changes
80192414-00	0	25 September 2024	Initial test report
80192414-00	1	15 October 2024	Changes in point 2.5 (Variants of the EUT)

The test report with the highest revision number replaces the previous test reports.

3.2 FINAL ASSESSMENT

The equipment under test fulfills the EMI requirements cited in clause 1 test standards.

Date of receipt of test sample : acc. to storage records

Testing commenced on : 07 February 2024

Testing concluded on : 26 February 2024

Checked by: _____ Tested by: _____

Klaus Gegenfurtner Teamleader Radio

Josef Knab
Radio Team

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

CSA Group Bayern GmbH
Ohmstrasse 1-4
94342 STRASSKIRCHEN
GERMANY

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15 - 35 ° C

Humidity: 30 - 60 %

Atmospheric pressure: 86 - 106 kPa

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. It is noted that the expanded measurement uncertainty corresponds to the measurement results from the standard measurement uncertainty multiplied by the coverage factor $k = 2$. The true value is located in the corresponding interval with a probability of 95 %. The measurement uncertainty was calculated for all measurements listed in this test report on basis of the ETSI Technical Report TR 100 028 Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1 and Part 2. The results are documented in the quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	± 3.29 dB
20 dB Bandwidth	Center frequency of EuT	95%	$\pm 2.5 \cdot 10^{-7}$
99% Occupied Bandwidth	Center frequency of EuT	95%	$\pm 2.5 \cdot 10^{-7}$
Radiated Spurious Emissions	9 kHz to 30 MHz	95%	± 3.53 dB
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	± 3.71 dB
Radiated Spurious Emissions	1000 MHz to 10000 MHz	95%	± 2.34 dB
Peak conducted output power	902 MHz to 928 MHz	95%	± 0.35 dB
Conducted Spurious Emissions	9 kHz to 10000 MHz	95%	± 2.15 dB

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4.4 Conformity Decision Rule

The applied conformity decision rule is based on ILAC G8:09/2019 clause 4.2.1 Binary Statement for Simple Acceptance Rule ($w = 0$).

Details can be found in the procedure CSA_B_V50_29.

4.5 Measurement protocol for FCC and ISED

4.5.1 GENERAL INFORMATION

CSA Group Bayern GmbH is recognized as wireless testing laboratory under the CAB identifier:

**FCC: DE 0011
ISED: DE0009**

4.5.2 General Standard information

The test methods used comply with ANSI C63.10 - "Testing Unlicensed Wireless Devices".

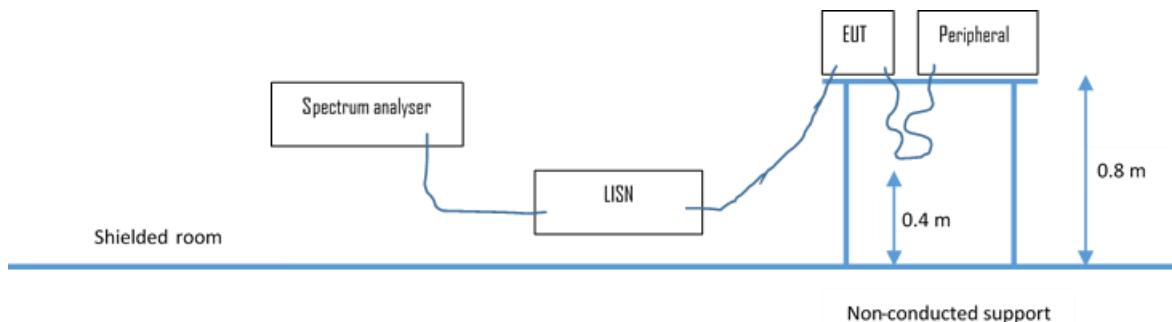
4.5.2.1 Justification

The equipment under test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions.

4.5.3 Details of test procedures

4.5.3.1 Conducted emission

Test setup according ANSI C63.10



The final level, expressed in $\text{dB}\mu\text{V}$, is arrived at by taking the reading directly from the Spectrum analyser. This level is compared to the limit.

To convert between $\text{dB}\mu\text{V}$ and μV , the following conversions apply:

$$\text{dB}\mu\text{V} = 20(\log \mu\text{V})$$

$$\mu\text{V} = \text{Inverse log}(\text{dB}\mu\text{V}/20)$$

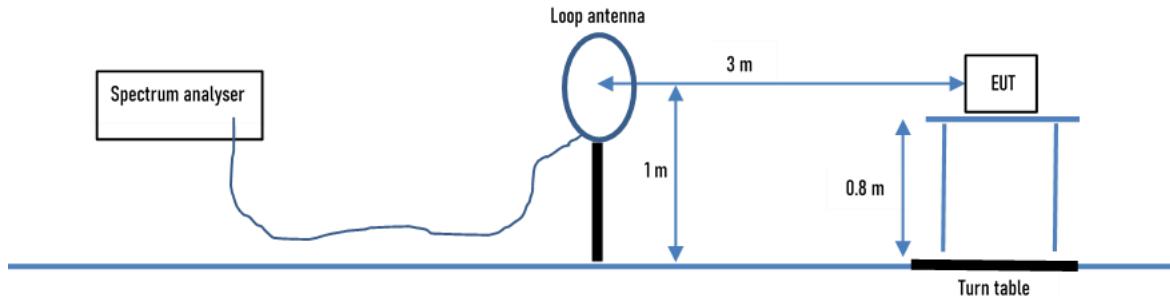
Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection and a Line Impedance Stabilization Network (LISN) with $50 \Omega / 50 \mu\text{H}$ (CISPR 16) characteristics. The receiver is protected by means of an impedance matched pulse limiter connected directly to the RF input. Table top equipment is placed on a non-conducting table 80 centimetres above the floor and is positioned 40 centimetres from the vertical ground plane (wall) of the screen room. If the minimum limit margin appears to be less than 20 dB with a peak mode measurement, the emission is re-measured using a tuned receiver with quasi-peak and average detection and recorded on the data sheets.

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4.5.3.2 Radiated emission

4.5.3.2.1 OATS1 test site (9 kHz - 30 MHz):

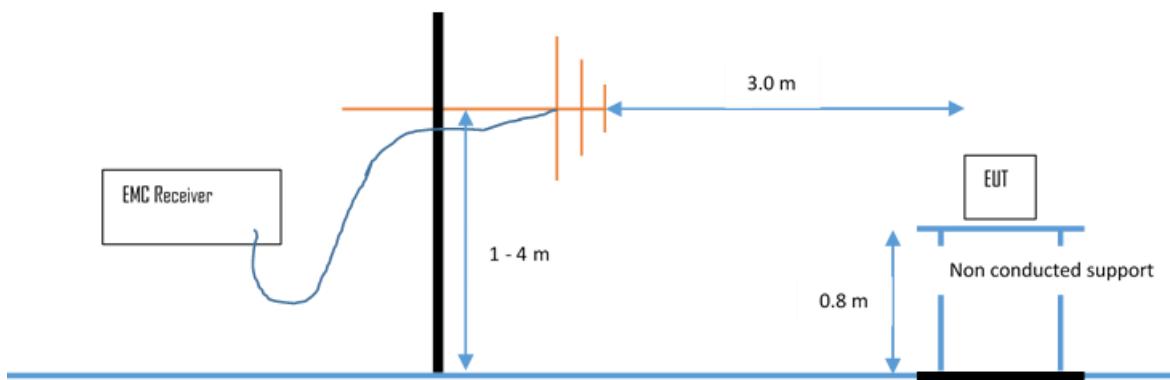
Test setup according ANSI C63.10



Emissions from the EUT are measured in the frequency range of 9 MHz to 30 MHz using a tuned receiver and a calibrated loop antenna. Table top equipment is placed on a 1.0 X 1.5 m non-conducting table 80 centimetres above the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screened room located outside the test area. The antenna is positioned 3, 10 or 30 metres horizontally from the EUT and is repeated vertically. To locate maximum emissions from the test sample the antenna is varied along the site axis and the EUT is rotated 360 degrees.

4.5.3.2.2 OATS1 test site (30 MHz - 1 GHz):

Test setup according ANSI C63.10.



Spurious emissions from the EUT are measured in the frequency range of 30 MHz to 1000 MHz using a tuned receiver and appropriate broadband linearly polarised antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection. Table top equipment is placed on a 1.0 X 1.5 m non-conducting table 80 centimetres above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screened room located outside the test area. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 metres and the EUT is rotated 360 degrees. The final level in dB μ V/m is calculated by taking the reading from the EMI receiver (Level dB μ V) and adding the correction factors and cable loss factor (dB). The FCC limit is subtracted from this result in order to provide the limit margin listed in the measurement protocol.

The resolution bandwidth setting:

30 MHz – 1000 MHz: RBW: 120 kHz

Example:

Frequency (MHz)	Level (dB μ V)	+	Factor (dB)	=	Level (dB μ V/m)	-	Limit (dB μ V/m)	=	Delta (dB)
719.0	75.0	+	32.6	=	107.6	-	110.0	=	-2.4

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5 TEST CONDITIONS AND RESULTS

5.1 Conducted emissions

For test instruments and accessories used, see section 6 Part A 4.

5.1.1 Description of the test location

Test location: Shielded Room S2

5.1.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.1.3 Applicable standard

FCC Part 15, Section 15.207 / RSS-GEN, Section 8.8

5.1.4 Description of Measurement

The radiated power of the spurious emission from the EUT is measured in a test setup following the procedures set out in ANSI C63.10.

5.1.5 Test result

Frequency range: 0.15 MHz - 30 MHz

Min. limit margin >15 dB

Limit according to FCC Part 15, Section 15.207:

Limit according to RSS-GEN, Section 8.8:

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

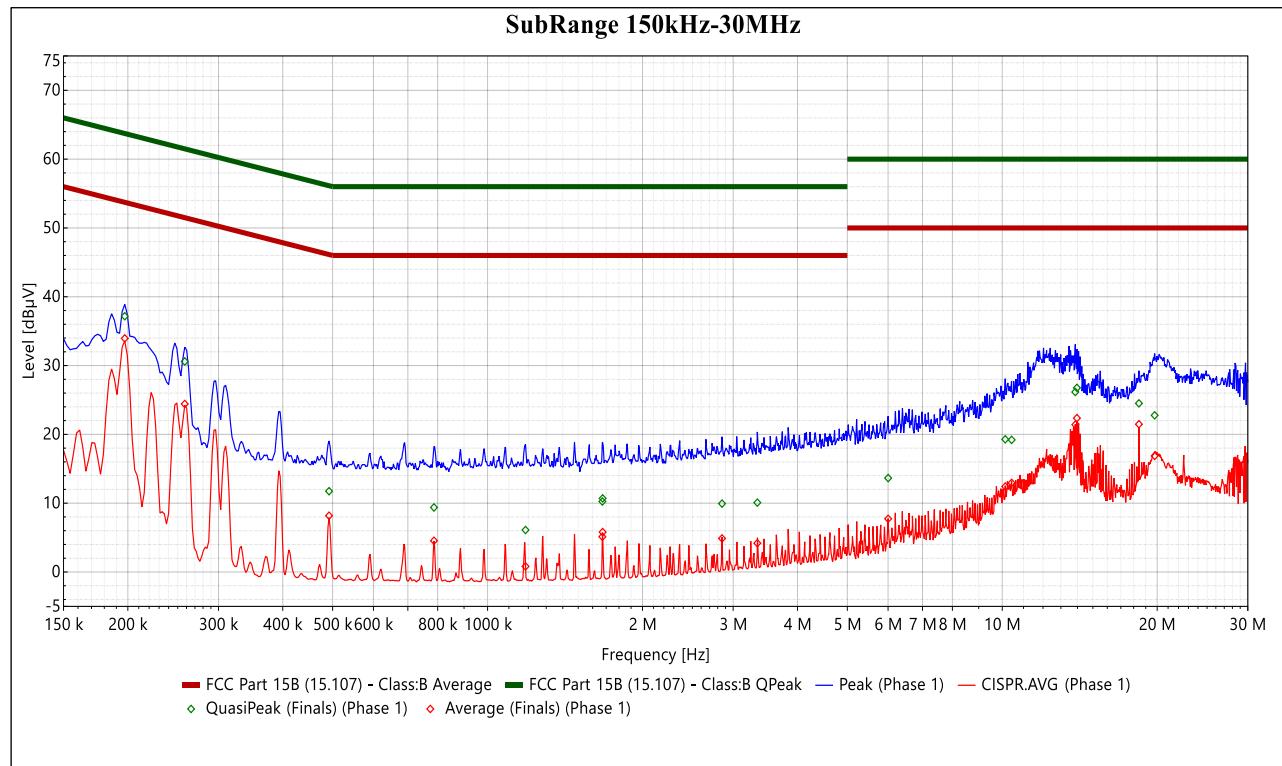
* Decreases with the logarithm of the frequency

The requirements are **FULFILLED**.

Remarks: For detailed results, please see the following page(s).

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5.1.6 Test protocol

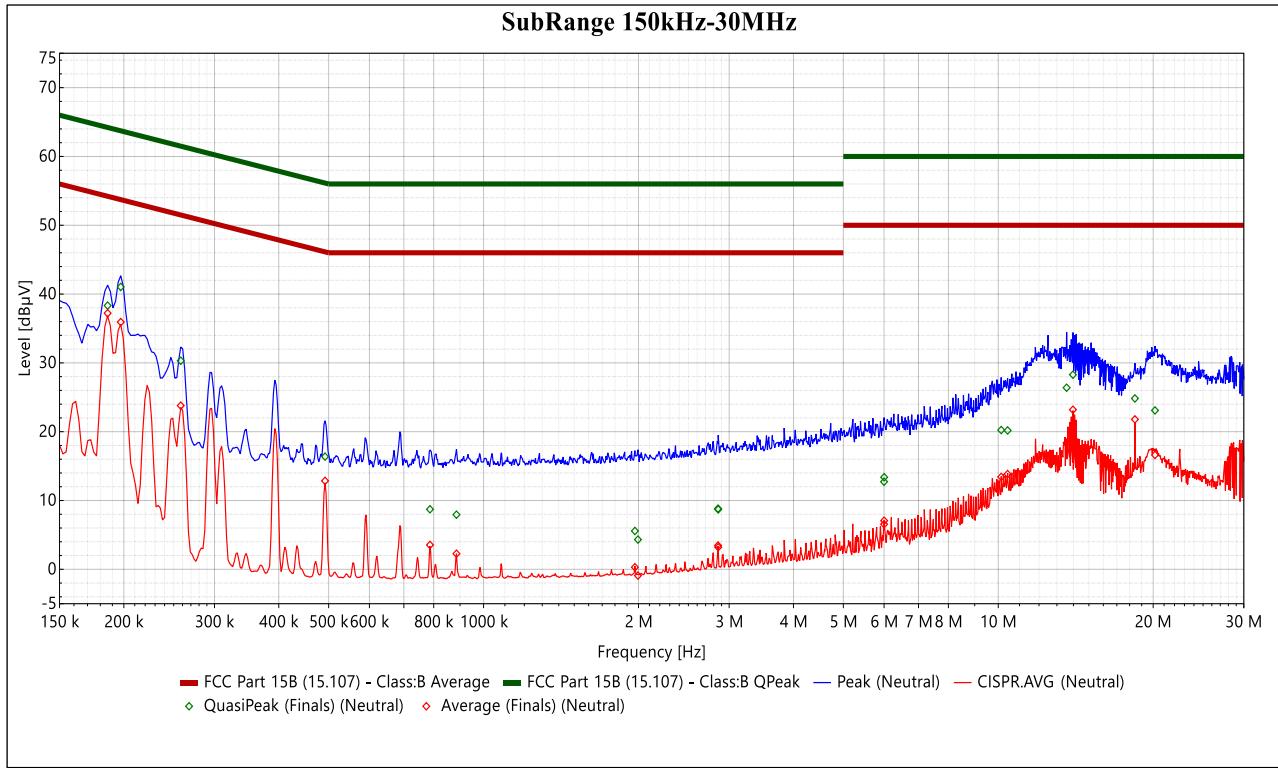
File No.:	80192414-00 Rev_1	Result:	PASS
Operation mode:	Cont. TAG reading at 125 kHz		
Tested by:	KJ	Nexio Version:	2023.0.8.0
Location:	S2	Date:	07.02.2024 15:04:32
Remarks:	Test point L1		



Frequency (Hz)	QuasiPeak (dBμV)	QP Margin	QP Limit (dBμV)	Average (dBμV)	AV Margin	AV Limit (dBμV)	Line	Correction (dB)
197.25 k	37.174	26.552	63.726	33.947	19.779	53.726	Phase 1	10.098
258 k	30.604	30.892	61.496	24.422	27.073	51.496	Phase 1	10.116
492 k	11.743	44.391	56.134	8.183	37.951	46.134	Phase 1	10.169
786.75 k	9.377	46.623	56	4.54	41.46	46	Phase 1	10.191
1.185 M	6.103	49.897	56	0.809	45.191	46	Phase 1	10.207
1.671 M	10.236	45.764	56	5.118	40.882	46	Phase 1	10.249
1.67325 M	10.7	45.3	56	5.799	40.201	46	Phase 1	10.249
2.8545 M	9.937	46.063	56	4.882	41.118	46	Phase 1	10.313
3.34275 M	10.083	45.917	56	4.183	41.817	46	Phase 1	10.321
6.00225 M	13.653	46.347	60	7.727	42.273	50	Phase 1	10.473
10.1355 M	19.282	40.718	60	12.417	37.583	50	Phase 1	10.57
10.428 M	19.197	40.803	60	12.952	37.048	50	Phase 1	10.597
13.866 M	26.156	33.844	60	21.412	28.588	50	Phase 1	10.839
13.96725 M	26.758	33.242	60	22.358	27.642	50	Phase 1	10.844
18.43125 M	24.512	35.488	60	21.468	28.532	50	Phase 1	10.915
19.77675 M	22.775	37.225	60	16.869	33.131	50	Phase 1	10.941

FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

File No.:	80192414-00 Rev_1	Result:	PASS
Operation mode:	Cont. TAG reading at 125 kHz		
Tested by:	KJ	Nexio Version:	2023.0.8.0
Location:	S2	Date:	07.02.2024 15:04:32
Remarks:	Test point N		



Frequency (Hz)	QuasiPeak (dB μ V)	QP Margin	QP Limit (dB μ V)	Average (dB μ V)	AV Margin	AV Limit (dB μ V)	Line	Correction (dB)
186 k	38.325	25.888	64.213	37.216	16.997	54.213	Neutral	10.142
197.25 k	41.036	22.69	63.726	35.933	17.793	53.726	Neutral	10.145
258 k	30.309	31.186	61.496	23.787	27.709	51.496	Neutral	10.159
492 k	16.385	39.749	56.134	12.846	33.288	46.134	Neutral	10.17
786.75 k	8.723	47.277	56	3.536	42.464	46	Neutral	10.205
885.75 k	7.944	48.056	56	2.272	43.728	46	Neutral	10.216
1.968 M	5.572	50.428	56	0.301	45.699	46	Neutral	10.28
1.995 M	4.318	51.682	56	-0.908	46.908	46	Neutral	10.282
2.8545 M	8.823	47.177	56	3.46	42.54	46	Neutral	10.335
2.85675 M	8.703	47.297	56	3.211	42.789	46	Neutral	10.335
6 M	12.726	47.274	60	6.56	43.44	50	Neutral	10.497
6.00225 M	13.379	46.621	60	7.06	42.94	50	Neutral	10.498
10.13325 M	20.238	39.762	60	13.426	36.574	50	Neutral	10.598
10.428 M	20.176	39.824	60	13.836	36.164	50	Neutral	10.621
13.578 M	26.391	33.609	60	18.372	31.628	50	Neutral	10.871
13.96725 M	28.281	31.719	60	23.194	26.806	50	Neutral	10.903
18.43125 M	24.829	35.171	60	21.793	28.207	50	Neutral	10.959
20.1615 M	23.09	36.91	60	16.623	33.377	50	Neutral	11.078

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5.2 Field strength of the fundamental wave

For test instruments and accessories used see section 6 Part **CPR 1**.

5.2.1 Description of the test location

Test location: OATS 1
 Test distance: 3 m

5.2.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.2.3 Applicable standard

FCC Part 15, Section 15.209(a) / RSS-GEN, Section 8.9

5.2.4 Description of Measurement

The radiated power of the spurious emission from the EUT is measured in a test setup following the procedures set out in ANSI C63.10.

5.2.5 Test result accd. to FCC

a) Result at a measurement distance of 3 m

Frequency (kHz)	Level (dB μ V)	Ant. factor (dB 1/m)	Field strength dB(μ V/m)
125.00	42.0	18.0	60.0

b) Result extrapolated to a distance of 300 m

Frequency (kHz)	Field strength dB(μ V/m) @3m	Extrapolation factor (dB)	Field strength dB(μ V/m) @300m	Limit dB(μ V/m)	Delta (dB)
125.00	60.0	-80.0	-20.0	25.7	-45.7

Limit according to FCC Part 15, Section 15.209(a):

Frequency (kHz)	Field strength of fundamental wave (μ V/m)	Measurement distance dB(μ V/m)
125	19.2	25.7

FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X
5.2.6 Test result accd. to RSS

a) Result at a measurement distance of 3 m

Frequency (kHz)	Level (dB μ A)	Ant. factor (dB 1/m)	Field strength dB(μ A/m)
125.00	-9.5	18.0	8.5

b) Result extrapolated to a distance of 300 m

Frequency (kHz)	Field strength dB(μ A/m) @3m	Extrapolation factor (dB)	Field strength dB(μ A/m) @300m	Limit dB(μ A/m)	Delta (dB)
125.00	8.5	-80.0	-71.5	-25.9	-45.6

Limit according to RSS-GEN, Section 8.9:

Frequency (kHz)	Field strength of fundamental wave (μ A/m)	Measurement distance dB(μ A/m)
125	0.05096	-25.9

The requirements are **FULFILLED**.

Remarks: The measurements were carried out with a PK detector because the EuT operate over several antennas at different times.

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5.3 Spurious emissions

For test instruments and accessories used see section 6 Part **SER 1, SER 2**.

5.3.1 Description of the test location

Test location: OATS 1
Test distance: 3 metres

5.3.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.3.3 Applicable standard

FCC Part 15, Section 15.209 / RSS-GEN, Section 8.9

5.3.4 Description of Measurement

The radiated power of the spurious emission from the EUT is measured in a test setup following the procedures set out in ANSI C63.10.

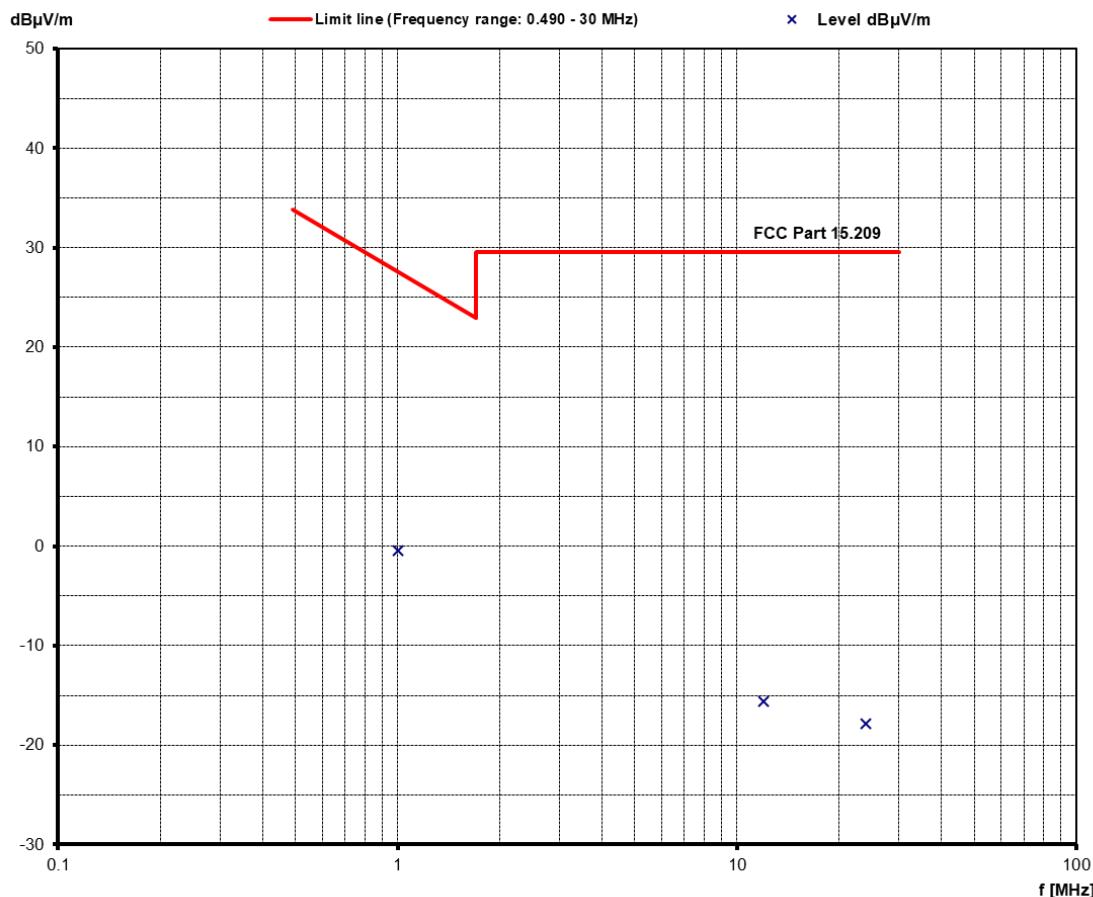
The resolution bandwidth during the measurement is as follows:

9 kHz – 150 kHz: RBW: 200 Hz
150 kHz – 30 MHz: RBW: 9 kHz
30 MHz – 1000 MHz: RBW: 120 kHz

Detector: QP (In frequency range 9-90 kHz and 110-490 kHz a linear average detector is used)

FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X
5.3.5 Test result < 30MHz accd. to FCC

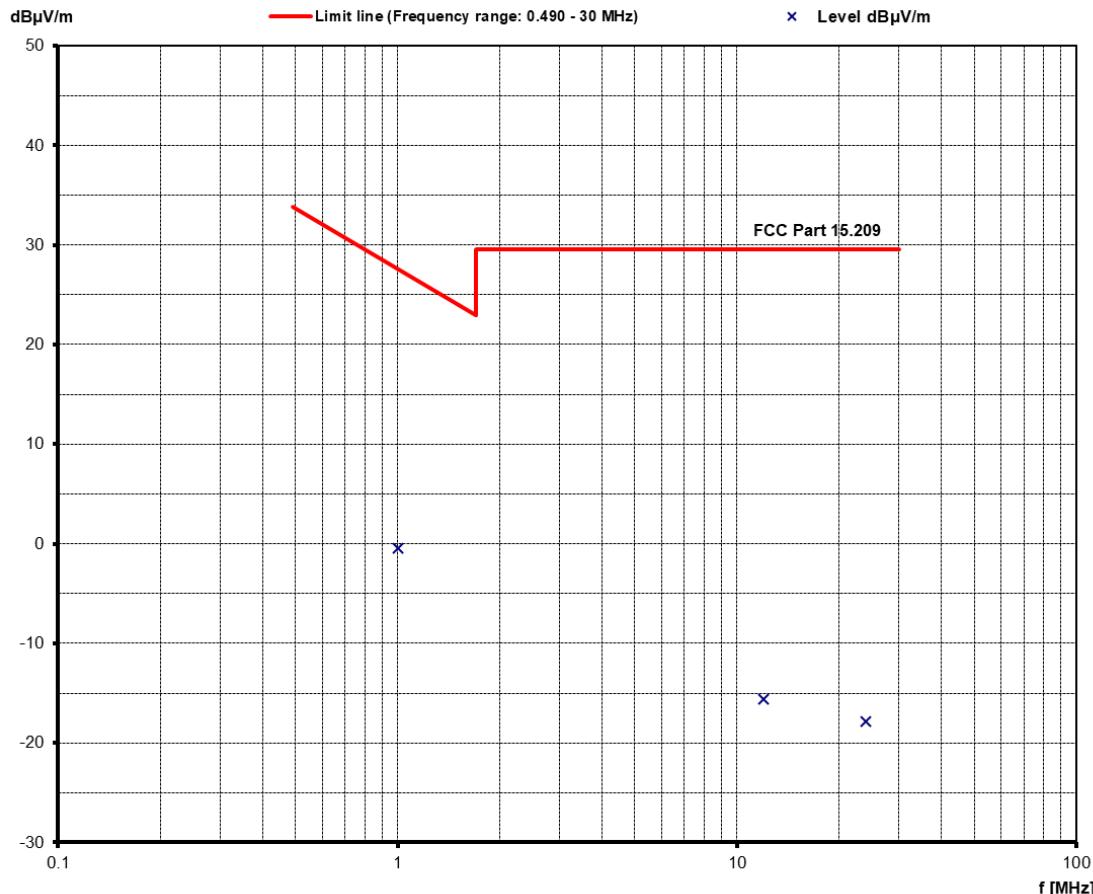
Frequency (kHz)	Level @3m (dB μ V)	Ant. factor (dB 1/m)	Field strength @3m dB(μ V/m)	Extrapolation factor @300m (dB)	Field strength level @300m dB(μ V/m)	Limit dB(μ V/m)	Delta (dB)
375.00	13.2	16.9	30.1	-80.0	-49.9	16.1	-66.0



FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

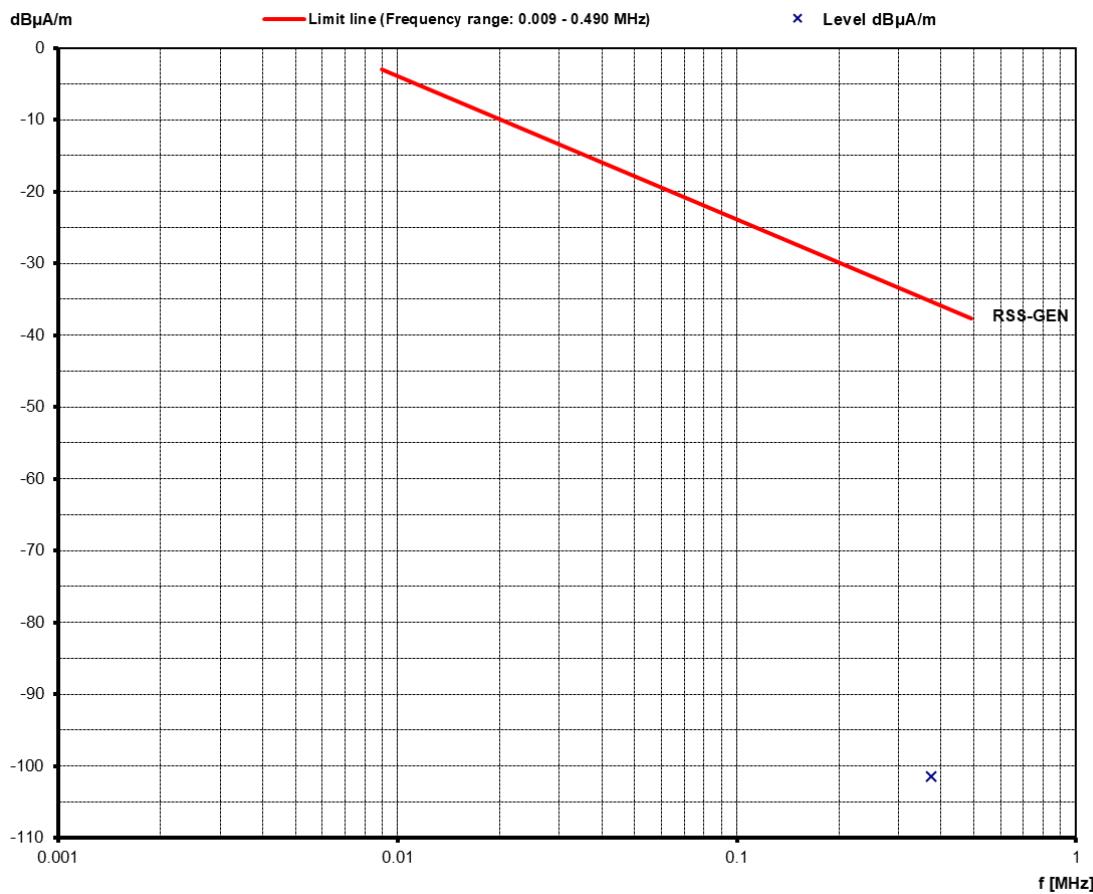
Frequency (kHz)	Level @3m (dB μ V)	Ant. factor (dB 1/m)	Field strength @3m dB(μ V/m)	Extrapolation factor @30m (dB)	Field strength level @30m dB(μ V/m)	Limit dB(μ V/m)	Delta (dB)
1000*	21.3	18.2	39.5	-40.0	-0.5	31.7	-32.2
12000*	6.8	17.6	24.4	-40.0	-15.6	27.6	-43.2
24000*	4.2	18.0	22.2	-40.0	-17.8	29.5	-47.3

Note: *) Ambient noise, no other spurious emissions could be detected



FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X
5.3.6 Test result < 30MHz accd. to RSS

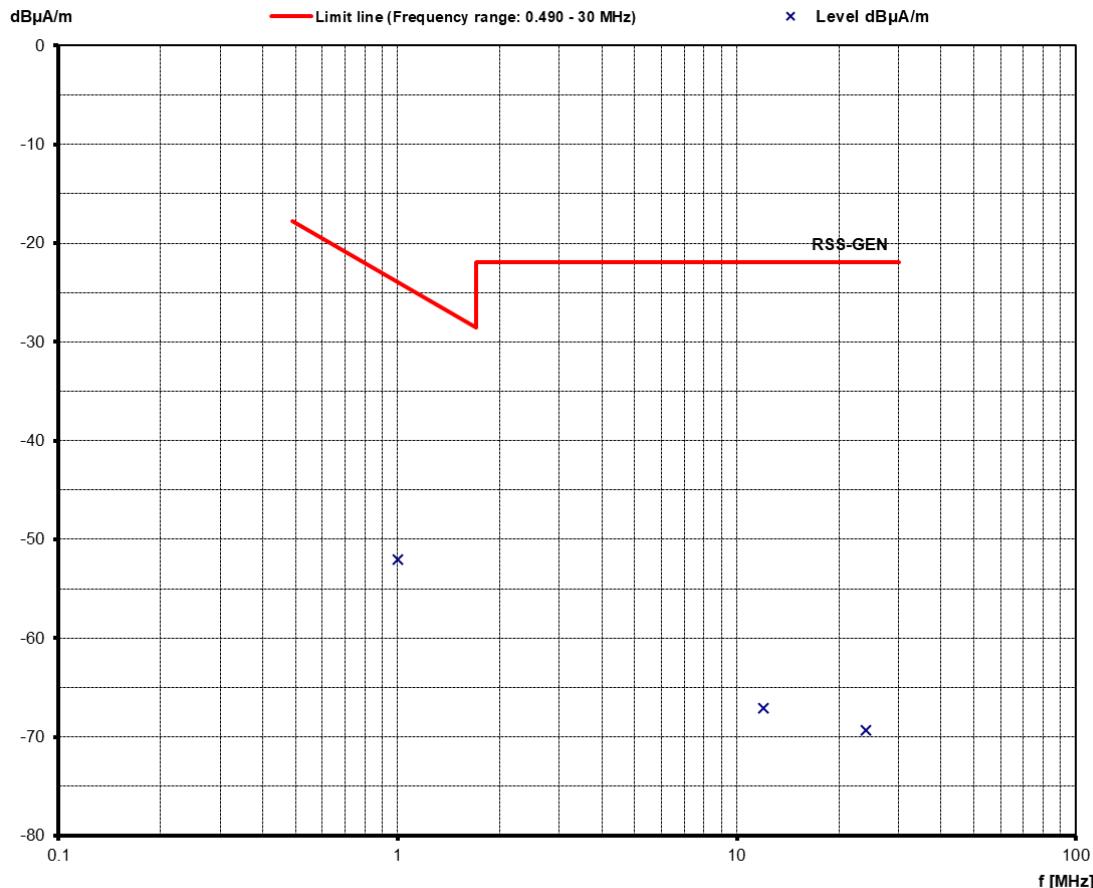
Frequency (kHz)	Level @3m (dB μ A)	Ant. factor (dB 1/m)	Field strength @3m dB(μ A/m)	Extrapolation factor @300m (dB)	Field strength level @300m dB(μ A/m)	Limit dB(μ A/m)	Delta (dB)
375.00	-38.3	16.9	-21.4	-80.0	-101.4	-35.4	-66.0



FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

Frequency (kHz)	Level @3m (dB μ A)	Ant. factor (dB 1/m)	Field strength @3m dB(μ A/m)	Extrapolation factor @30m (dB)	Field strength level @30m dB(μ A/m)	Limit dB(μ A/m)	Delta (dB)
1000*	-30.2	18.2	-12.0	-40.0	-52.0	-23.9	-28.1
12000*	-44.7	17.6	-27.1	-40.0	-67.1	-21.9	-45.2
24000*	-47.3	18.0	-29.3	-40.0	-69.3	-21.9	-47.4

Note: *) Ambient noise, no other spurious emissions could be detected.

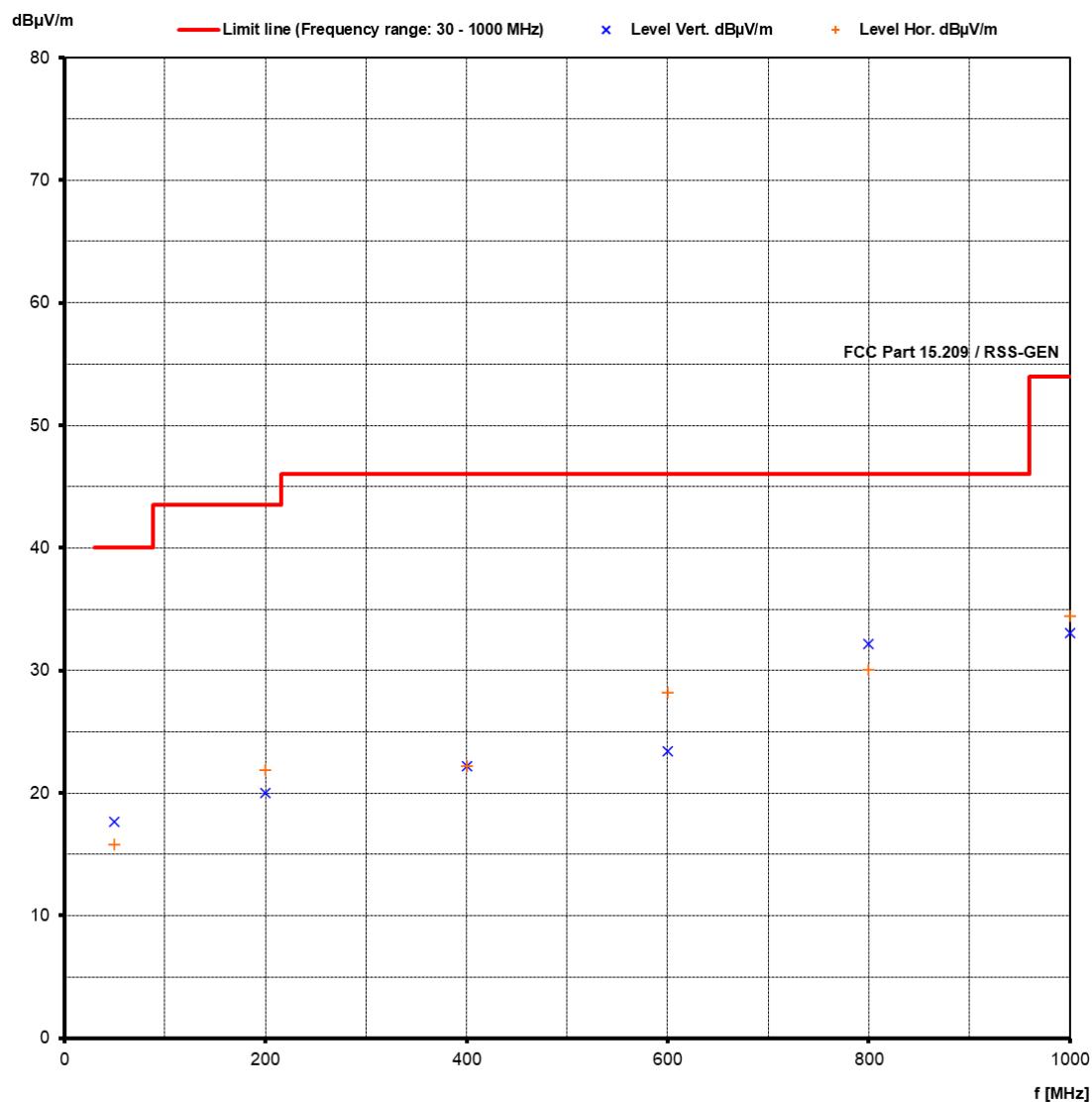


FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X
5.3.7 Test result 30 MHz < f < 1 GHz

Frequency (MHz)	Reading Vert. (dB μ V)	Reading Hor. (dB μ V)	Correct. Vert. (dB)	Correct. Hor. (dB)	Level Vert. (dB μ V/m)	Level Hor. (dB μ V/m)	Limit (dB μ V/m)	Dlimit (dB)
50*	0.1	-3.0	17.6	18.8	17.7	15.8	40.0	-22.3
200*	3.0	5.4	17.0	16.5	20.0	21.9	43.5	-21.6
400*	-1.1	-1.4	23.3	23.6	22.2	22.2	46.0	-23.8
600*	-4.9	-0.4	28.3	28.6	23.4	28.2	46.0	-17.8
800*	0.6	-1.8	31.6	31.9	32.2	30.1	46.0	-13.8
1000*	-0.9	0.0	34.0	34.4	33.1	34.4	54.0	-19.6

Note: The correction factor includes cable loss and antenna factor.

Note: *) Ambient noise, no other spurious emissions could be detected.



FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

Limit according to FCC Part 15, Section 15.209(a)

Frequency (MHz)	Field strength of spurious emissions (μ V/m)	dB(μ V/m)	Measurement distance (metres)
0.009 - 0.490	2400/F(kHz)	--	300
0.490 - 1.705	24000/F (kHz)	--	30
1.705 - 30.0	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Limit according to RSS-Gen, Section 8.9

Frequency (MHz)	Field strength of spurious emissions (μ A/m)	dB(μ A/m)	Measurement distance (metres)
0.009 - 0.490	6.37/F(kHz)	--	300 (Note 1)
0.490 - 1.705	63.7/F (kHz)	--	30
1.705 - 30.0	0.08	-22	30
Frequency (MHz)	Field strength of spurious emissions (μ V/m)	dB(μ V/m)	Measurement distance (metres)
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

 The requirements are **FULFILLED**.

Remarks: Measurement has been performed up to 1000 MHz.

The measurements were carried out with a PK detector because the EuT operate over several antennas at different times.

FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

5.4 Bandwidth

For test instruments and accessories used see section 6 Part **MB**.

5.4.1 Description of the test location

Test location: AREA4

5.4.2 Photo documentation of the test set-up

See ATTACHMENT C to this test report.

5.4.3 Applicable standard

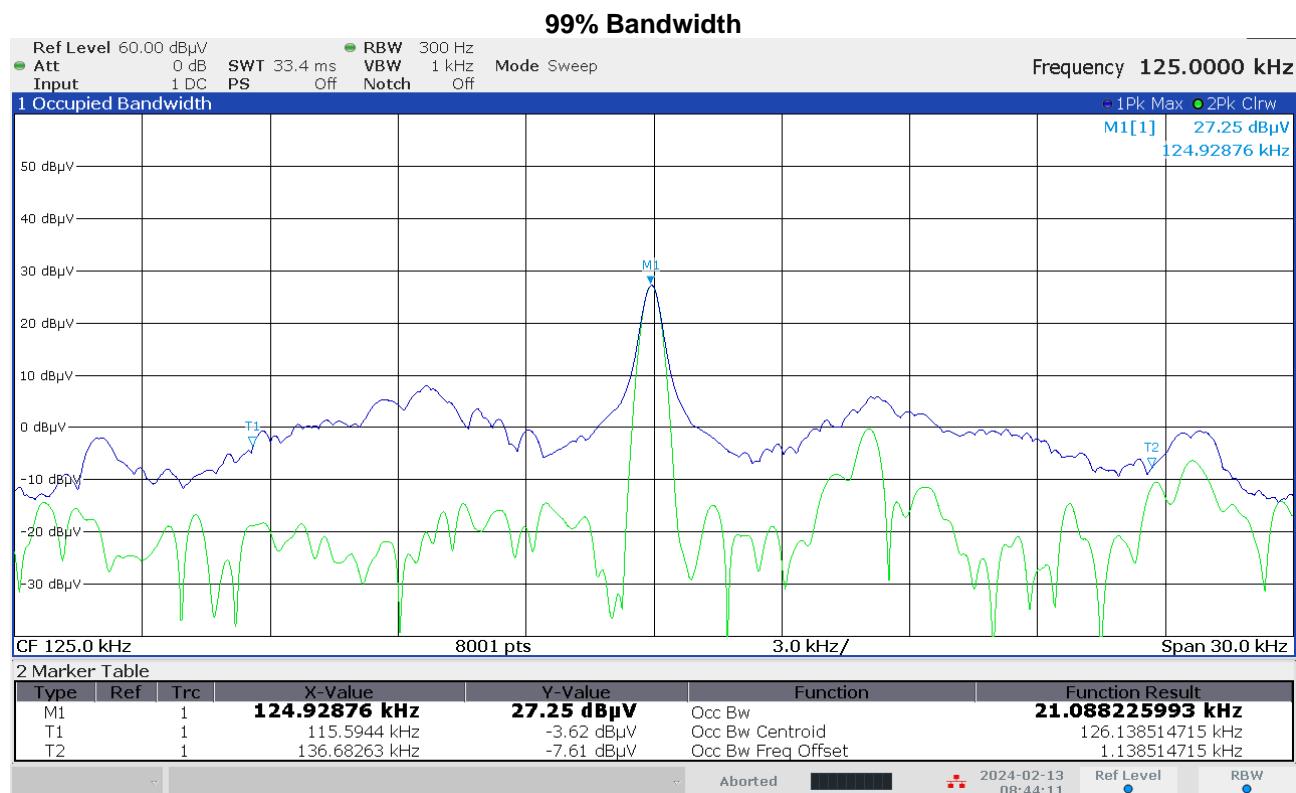
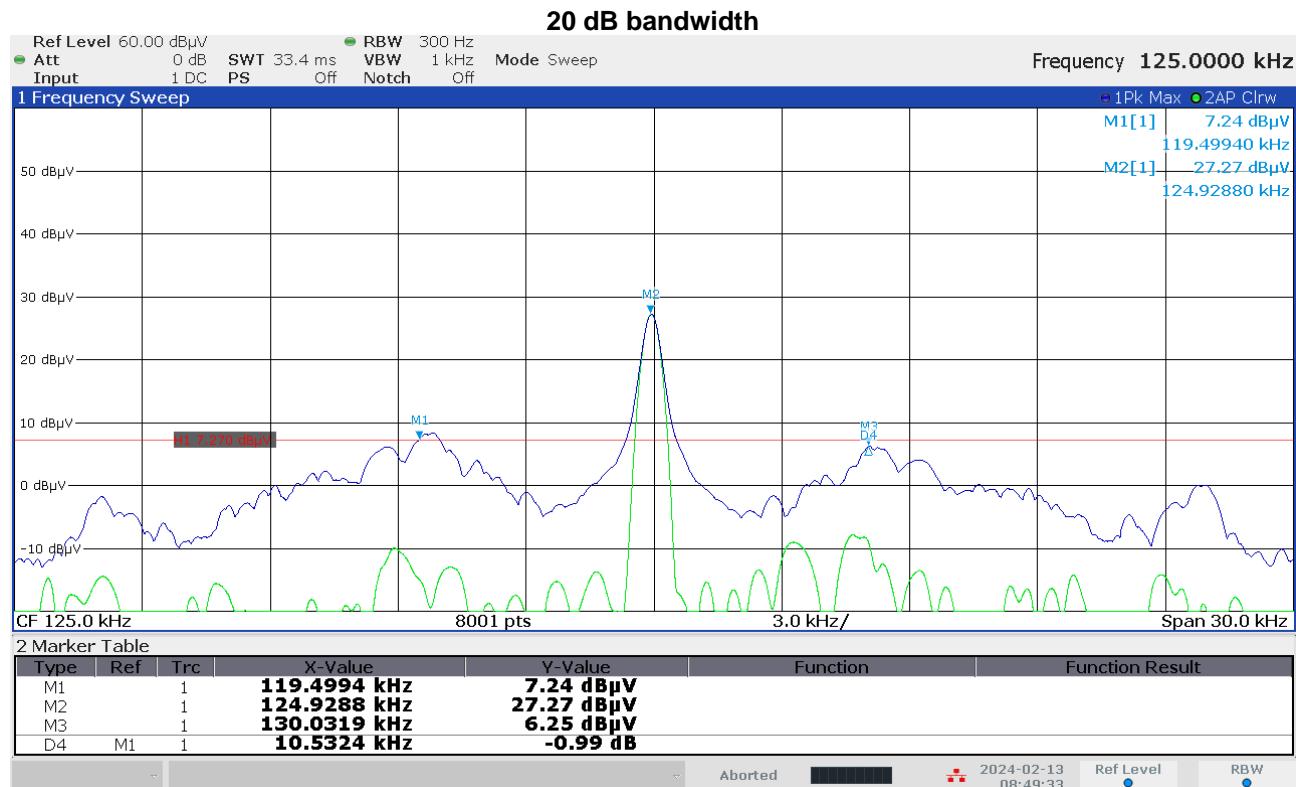
According to FCC Part 15, Section 15.215(c) / RSS-GEN, Section 6.7

5.4.4 Test result

Measured Bandwidth	result (kHz)	Limit (kHz)
20dB	10.716	--
99%	22.334	--

The requirements are **FULFILLED**.

Remarks: For detailed test result please refer to following test protocol.

FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X
5.4.5 Test protocol


FCC ID: 2BGE529G7115X IC ID: 32551-29G7115X

6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used are calibrated and verified regularly. The calibration history is available on request.
All listed measuring devices were calibrated at the time of use.

Test ID	Model Type	Equipment No.	Next Calib.	Last Calib.	Next Verif.	Last Verif.
A 4	BAT-EMC 2023.0.8.0	01-02/68-13-001				
	ESR 7	02-02/03-17-001	01/08/2024	01/08/2023		
	ESH 2 - Z 5	02-02/20-05-004	13/10/2025	13/10/2022	17/04/2024	17/04/2023
	N-4000-BNC	02-02/50-05-138				
	ESH 3 - Z 2	02-02/50-05-155	09/11/2025	09/11/2022	25/07/2024	25/07/2023
	6430	02-02/50-13-014				
CPR 1	ESW26	02-02/03-17-002	08/03/2024	08/03/2023		
	HFH 2 - Z 2	02-02/24-05-020	01/06/2025	01/06/2022	05/09/2024	05/09/2023
	KK-EF393-21N-16	02-02/50-05-033				
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
MB	METRAHIT WORLD	02-02/32-15-001	22/11/2024	22/11/2023		
	WK-340/40	02-02/45-05-001	27/07/2024	27/07/2023		
	Type 5315.5	02-02/50-05-197				
	7405	02-02/50-05-235				
	ESW44	09-16/03-24-001	21/11/2024	21/11/2023		
SER 1	ESW26	02-02/03-17-002	08/03/2024	08/03/2023		
	HFH 2 - Z 2	02-02/24-05-020	01/06/2025	01/06/2022	05/09/2024	05/09/2023
	KK-EF393-21N-16	02-02/50-05-033				
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
SER 2	ESVS 30	02-02/03-05-006	27/07/2024	27/07/2023		
	ESW26	02-02/03-17-002	08/03/2024	08/03/2023		
	VULB 9168	02-02/24-05-005	20/04/2024	20/04/2023	03/05/2024	03/05/2023
	NW-2000-NB	02-02/50-05-113				
	KK-EF393/U-16N-21N20 m	02-02/50-12-018				
	KK-SD_7/8-2X21N-33,0M	02-02/50-15-028				
	50F-003 N 3 dB	02-02/50-21-010				