

TEST REPORT

of

FCC Part 15 Subpart C §15.247

FCC ID: 2BN2L-GEN2S2PLUS

Equipment Under Test : Automatically washing and drying toilet BIDET
Model Name : GEN2.0 S2 Plus
Variant Model Name(s) : Refer to page 3
Applicant : INUS Co., Ltd.
Manufacturer : INUS HOME VINA LIMITED COMPANY
Date of Receipt : 2025.03.05
Date of Test(s) : 2025.04.10 ~ 2025.07.28
Date of Issue : 2025.08.01

In the configuration tested, the EUT complied with the standards specified above.
This test report does not assure KOLAS accreditation.

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- 2) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.
- 3) This test report cannot be reproduced, except in full, without prior written permission of the Company.
- 4) The data marked ※ in this report was provided by the customer and may affect the validity of the test results.

We are responsible for all the information of this test report except for the data(※) provided by the customer

Tested by:



Dave Kim

Technical
Manager:



Jinhyoung Cho

SGS Korea Co., Ltd. Gunpo Laboratory

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)

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- 4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807
- Designation number: KR0150

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1.2. Details of Applicant

Applicant : INUS Co., Ltd.

Address : 34, Yeongdong-daero 96-gil, Gangnam-gu, Seoul, Republic of Korea, 06173

Contact Person : Shin, Gyu-young

Phone No. : +82 2 6989 1877

1.3. Details of Manufacturer

Company : INUS HOME VINA LIMITED COMPANY

Address : Workshop B2, street 06 Giang Dien IP, Giang Dien commune, TrangBom Village, Dong Nai Province, Vietnam, 76317

1.4. Description of EUT

Kind of Product	Automatically washing and drying toilet BIDET
Model Name	GEN2.0 S2 Plus
Variant Model Name(s)	S2ER2-05, S2ER2-06, S2ER2-07, S2ER2-08
Serial Number	Conducted: RF 002 Wire Radiated: RF 002
Power Supply	AC 110 V
Frequency Range	2 425 MHz ~ 2 475 MHz (Zigbee)
Modulation Technique	DSSS
Number of Channels	3 channels
Antenna Type	PCB pattern Antenna
Antenna Gain[※]	-0.47 dB i
H/W Version	GEN2 S2+ PBA V1.0
S/W Version	GEN2 S2+ SW V1.0

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMA100B	106887	Oct. 11, 2024	Annual	Oct. 11, 2025
Spectrum Analyzer	R&S	FSV30	103453	Oct. 29, 2024	Annual	Oct. 29, 2025
Spectrum Analyzer	Agilent	N9020A	MY53421758	Sep. 10, 2024	Annual	Sep. 10, 2025
Attenuator	MCLI	FAS-12-10	A2	Jun. 10, 2024	Annual	Jun. 10, 2025
High Pass Filter	Wainwright Instrument GmbH	WHKX3.0/18G-10SS	21	Jun. 07, 2024	Annual	Jun. 07, 2025
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	15	Jun. 07, 2024	Annual	Jun. 07, 2025
Low Pass Filter	Mini-Circuits	NLP-1200+	V8979400903-2	Feb. 04, 2025	Annual	Feb. 04, 2026
Power Sensor	R&S	NRP-Z81	100418	Feb. 03, 2025	Annual	Feb. 03, 2026
AC Power Supply	KIKUSUI	PCR500M	QJ001755	Jun. 11, 2024	Annual	Jun. 11, 2025
Preamplifier	H.P.	8447F	2944A03909	Aug. 09, 2024	Annual	Aug. 09, 2025
Preamplifier	R&S	SCU18F	101058	Feb. 27, 2025	Annual	Feb. 27, 2026
Pre Amplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	Oct. 14, 2024	Annual	Oct. 14, 2025
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB1519	1519-039	Mar. 25, 2025	Biennial	Mar. 25, 2027
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9163	01126	Mar. 05, 2025	Biennial	Mar. 05, 2027
Horn Antenna	R&S	HF906	100326	Feb. 24, 2025	Annual	Feb. 24, 2026
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	9170-540	Dec. 11, 2024	Annual	Dec. 11, 2025
EMI Test Receiver	R&S	ESU26	100109	Jan. 13, 2025	Annual	Jan. 13, 2026
Turn Table	Innco systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Controller	Innco systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Antenna Mast	Innco systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-5 m	TPC2402190004	Apr. 08, 2025	Semi-Annual	Oct. 08, 2025
Coaxial Cable	SENSORVIEW	NMST-13A26-NMST-10 m	TPC2402190001	Apr. 08, 2025	Semi-Annual	Oct. 08, 2025
Coaxial Cable	Radiall	TESTPRO3	18 22 88	Apr. 11, 2025	Semi-Annual	Oct. 11, 2025
Test Receiver	R&S	ESCI7	100911	Feb. 27, 2025	Annual	Feb. 27, 2026
Two-Line V-Network	R&S	ENV216	100190	Jun. 05, 2025	Annual	Jun. 05, 2026
Shield Room	SY Corporation	L × W × H (6.5 m × 3.5 m × 3.5 m)	N/A	N.C.R.	N/A	N.C.R.

Note;

For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date

1.6. Declaration by the Manufacturer

The EUT operates only 3 channels – 2 425 MHz, 2 450 MHz and 2 475 MHz.

1.7. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C		
Section in FCC	Test Item(s)	Result
15.205(a) 15.209 15.247(d)	Transmitter Radiated Spurious Emissions and Conducted Spurious Emission	Pass
15.247(a)(2)	6 dB Bandwidth	Pass
15.247(b)(3)	Maximum Peak Conducted Output Power	Pass
15.247(e)	Power Spectral Density	Pass
15.207	AC Power Line Conducted Emission	Pass

1.8. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 15.247 Meas Guidance v05r02 were used in the measurement of the DUT.

1.9. Sample Calculation

Where relevant, the following sample calculation is provided:

1.9.1. Conducted Test

Offset value (dB) = Attenuator (dB) + Cable loss (dB)

1.9.2. Radiation Test

Field strength level (dB μ V/m) = Measured level (dB μ V) + Antenna factor (dB/m) + Cable loss (dB) - Amplifier gain (dB) + Duty factor (dB)

1.10. Information of software for test

- Using the Non_Signaling_Test_tool(v1.9) software on the PC to Test the EUT.

1.11. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty	
Maximum Peak Conducted Output Power	0.32 dB	
Power Spectral Density	0.63 dB	
6 dB Bandwidth	0.05 MHz	
Conducted Spurious Emission	0.89 dB	
AC Power Line Conducted Emission	3.00 dB	
Radiated Emission, 9 kHz to 30 MHz	H	3.40 dB
	V	3.40 dB
Radiated Emission, below 1 GHz	H	4.60 dB
	V	5.00 dB
Radiated Emission, above 1 GHz	H	3.60 dB
	V	3.60 dB

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

1.12. Test Report Revision

Revision	Report number	Date of Issue	Description
0	F690501-RF-RTL006026	2025.05.20	Initial
1	F690501-RF-RTL006026-1	2025.08.01	Retest 6. AC Power Line Conducted Emission

1.13. Description of Variant Model

Model name		Description
Basic model	GEN2.0 S2 Plus	- Basic model
Variant model	S2ER2-05	- Same as basic model, but the difference in product supplier.
	S2ER2-06	
	S2ER2-07	
	S2ER2-08	

Note;

All test items performed with basic model.

1.14. Duty Cycle of EUT

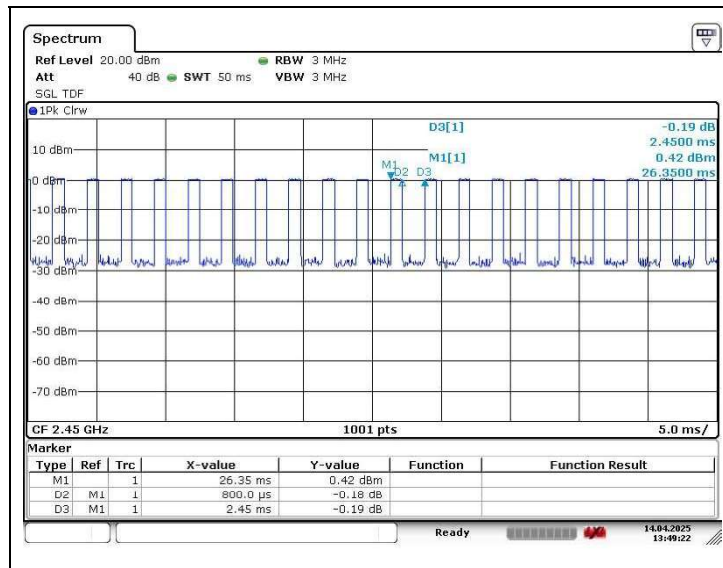
Regarding to KDB 558074 D01 15.247 Meas Guidance v05r02, 6, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below;
 Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100.

Mode	Duty Cycle (%)	Correction factor (dB)
DSSS	32.65	4.86

Remark;

- Duty Cycle (%) = (Tx on time / Tx on + off time) x 100
- Correction Factor (dB) = 10 log (1 / Duty Cycle)

- Test plot

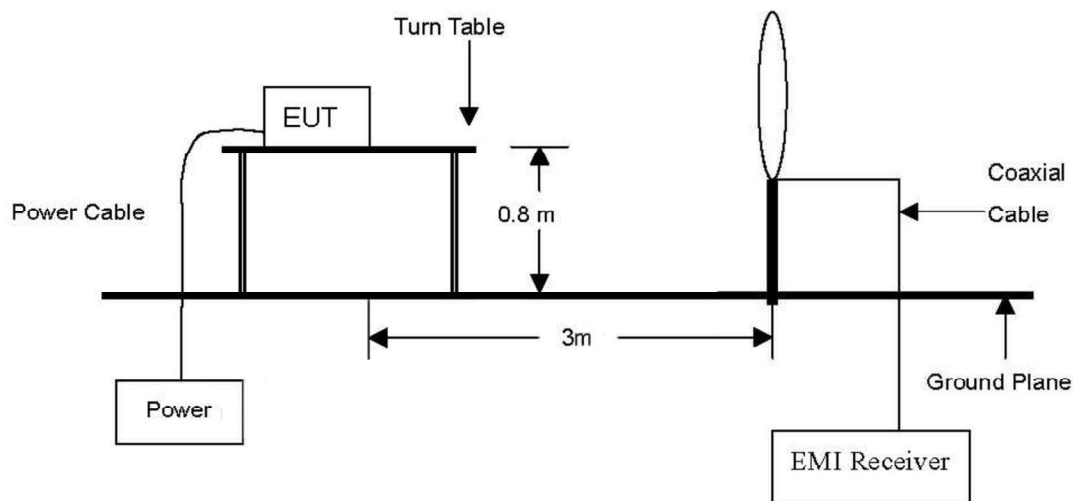


2. Transmitter Radiated Spurious Emissions and Conducted Spurious Emissions

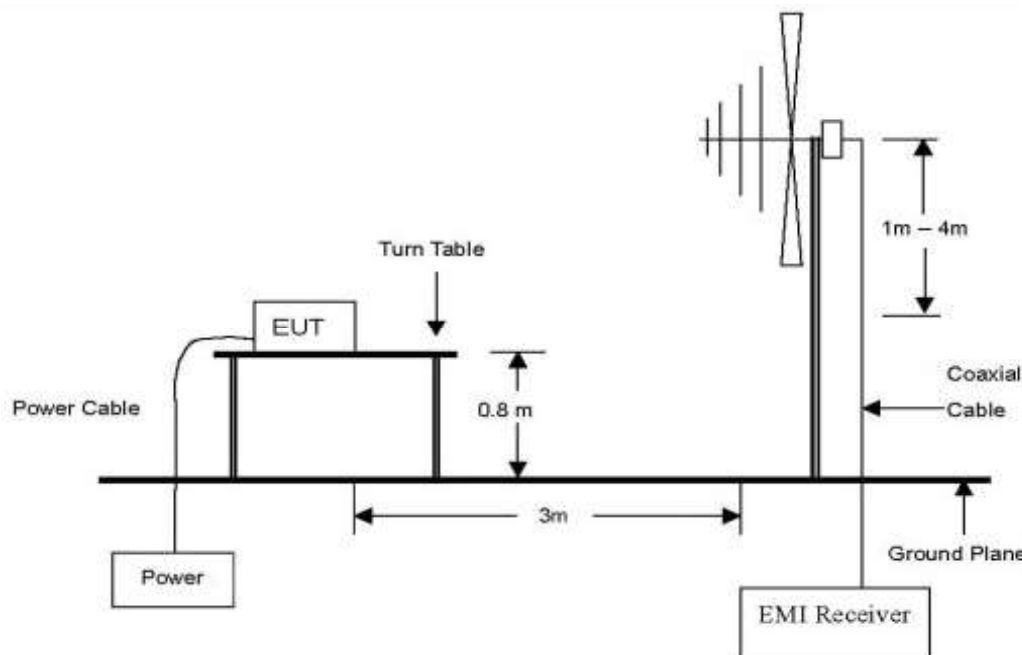
2.1. Test Setup

2.1.1. Transmitter Radiated Spurious Emissions

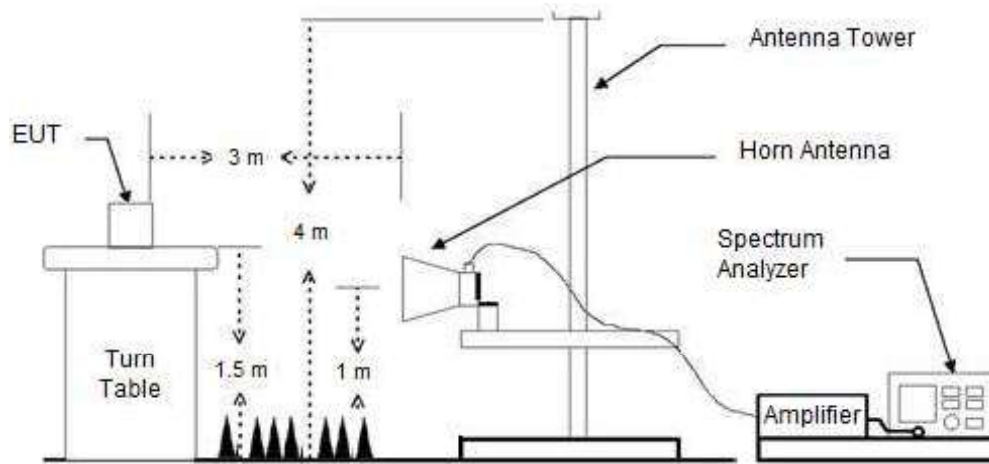
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz Emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated from 1 GHz to the 10th harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



2.1.2. Conducted Spurious Emissions



2.2. Limit

According to §15.247(d), 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emission which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (Meters)
0.009-0.490	$2\,400/F(\text{kHz})$	300
0.490-1.705	$24\,000/F(\text{kHz})$	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates in section 11.11 & 11.12 of ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

2.3.2. Test Procedures for emission from above 30 MHz

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 GHz and 1.5 meters above the ground at a 3 meter anechoic chamber test site above 1 GHz. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. For measurements below 1 GHz resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
6. For measurements Above 1 GHz resolution bandwidth is set to 1 MHz, the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

2.3.3. Test Procedures for Conducted Spurious Emissions

1. Unwanted Emissions into Non-Restricted Frequency Bands

- The Reference Level Measurement refer to section 11.11.2

Set analyzer center frequency to DTS channel center frequency, SPAN ≥ 1.5 times the DTS bandwidth, the RBW = 100 kHz and VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold.

- Unwanted Emissions Level Measurement refer to section 11.11.3

Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 kHz and VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold.

2. Unwanted Emissions into Restricted Frequency Bands

- Peak Power measurement procedure refer to section 11.12.2.4

Set RBW = as specified in Table 9, VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = auto, Trace = Max hold.

Table 9 – RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1 000 MHz	100 kHz to 120 kHz
> 1 000 MHz	1 MHz

If the peak – detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

- Average Power measurements procedure refer to section 11.12.2.5.2

The EUT shall be configured to operate at the maximum achievable duty cycle.

Measure the duty cycle D of the transmitter output signal as described in section 11.6.

Set RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = RMS, if span / (# of points in sweep) \leq (RBW/2).

Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied then the detector mode shall be set to peak.

Averaging type = power (i.e., RMS).

As an alternative the detector and averaging type may be set for linear voltage averaging.

Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used. Sweep time = auto, Perform a trace average of at least 100 traces.

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

- 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log (1 / D)]$, where D is the duty cycle.
- 2) If a specific emission is demonstrated to be continuous (D \geq 98%) rather than turning ON and OFF with the transmit cycle, then no duty cycled correction is required for that emission.

3. Definition of DUT Axis.

The radiation test of the EUT was investigated in three orthogonal orientations X, Y, and Z described in the test setup photo. All radiated testing of EUT was performed with worst case axis.

2.3.4. Test Procedures for Conducted Spurious Emissions

Per the guidance of ANSI C63.10-2013, section 11.11.1 & 11.11.2 & 11.11.3, the reference level for out of band emissions is established from the plots of this section since the band edge emissions are measured with a RBW of 100 kHz. This reference level is then used as the limit in subsequent plots for out of band spurious emissions shown in section 2.4.3. The limit for out of band spurious emission at the band edge is 20 dB below the fundamental emission level measured in a 100 kHz bandwidth.

1. Conducted Emissions at Band Edge

- The Measurement refer to section 11.11.3

Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 kHz and VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace mode = Max hold, The trace was allowed to stabilize.

2. Conducted Spurious Emissions

- The Measurement refer to section 11.11.3

Start frequency was set to 9 kHz and stop frequency was set to 25 GHz (separated into two plots per channel), RBW = 1 MHz, VBW $\geq 3 \times$ RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold, The trace was allowed to stabilize.

3. TDF function

- For plots showing conducted spurious emissions from 9 kHz to 25 GHz, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function.
 So, the reading values shown in plots were final result.

2.4. Test Results

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 % R.H.

2.4.1. Radiated Spurious Emissions below 1 000 MHz

The frequency spectrum from 9 MHz to 1 000 MHz was investigated.

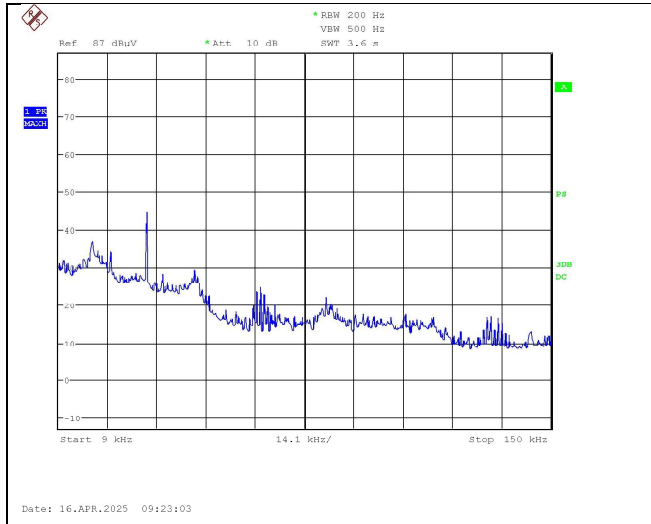
Radiated Emissions			Ant.	Correction (dB/m)	Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.		Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
53.98	44.33	Quasi - Peak	V	-7.69	36.64	40.00	3.36
55.97	44.85	Quasi - Peak	V	-7.96	36.89	40.00	3.11
57.21	44.49	Quasi - Peak	V	-8.08	36.41	40.00	3.59
59.05	43.29	Quasi - Peak	V	-8.45	34.84	40.00	5.16
99.52	36.95	Quasi - Peak	V	-8.59	28.36	43.50	15.14
927.36	23.46	Quasi - Peak	V	4.66	28.12	46.00	17.88

Remark;

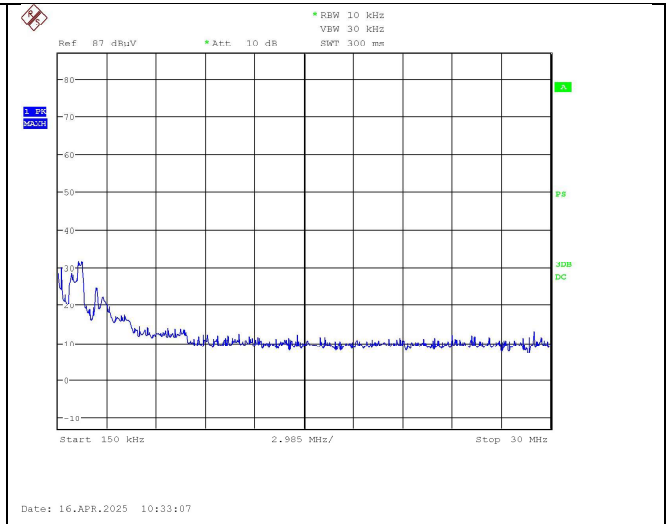
1. Spurious emissions for all channels were investigated and almost the same below 1 GHz.
2. Test from 30 MHz to 1 000 MHz was performed using the software of ELEKTRA(V5.02) from Rohde & Schwarz GmbH & Co. KG.
3. Reported spurious emissions are in **Low channel** as worst case among other channels.
4. Radiated spurious emission measurement as below.
(Actual = Reading + AF + AMP + CL)
(Correction = Antenna Factor + AMP Factor + Cable Loss)
5. According to §15.31(o), emission levels are not report much lower than the limits by over 20 dB.

- Test plots

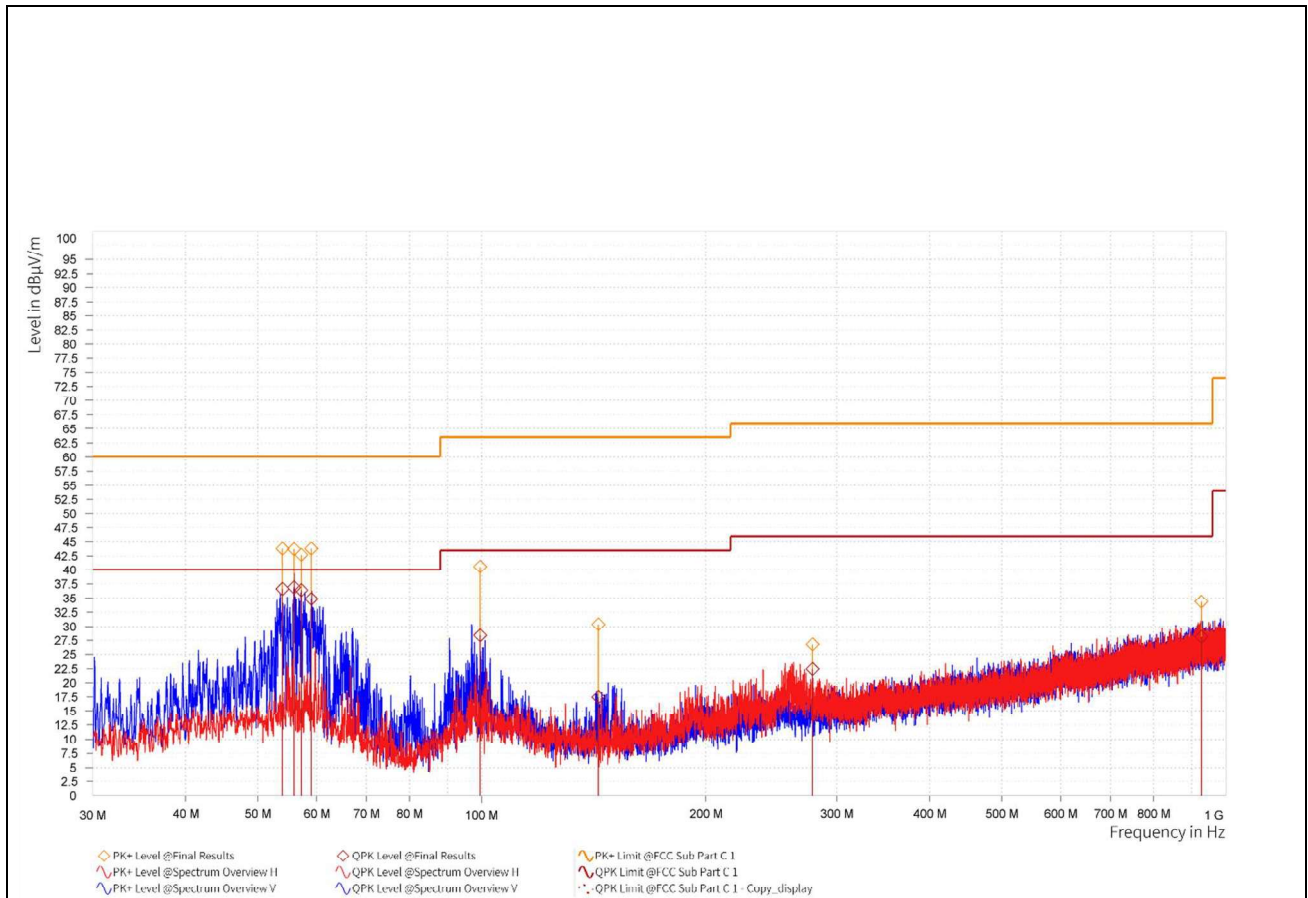
9 kHz – 150 kHz



150 kHz – 30 MHz



30 MHz – 1 GHz



2.4.2. Radiated Spurious Emissions above 1 000 MHz

The frequency spectrum above 1 000 MHz was investigated. All reading values are peak and average values.

Low Channel (2 425 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*2 310.00	14.57	Peak	V	27.94	7.27	-	49.78	74.00	24.22
*2 310.00	3.63	Average	V	27.94	7.27	4.86	43.70	54.00	10.30
*2 364.94	16.07	Peak	V	28.13	7.32	-	51.52	74.00	22.48
*2 389.51	3.83	Average	V	28.18	7.52	4.86	44.39	54.00	9.61
*2 390.00	14.30	Peak	V	28.18	7.52	-	50.00	74.00	24.00
*2 390.00	3.77	Average	V	28.18	7.52	4.86	44.33	54.00	9.67

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*4 848.88	50.24	Peak	V	32.99	-28.95	-	54.28	74.00	19.72
*4 850.78	40.38	Average	V	33.00	-28.95	4.86	49.29	54.00	4.71
*7 273.46	45.65	Peak	V	35.99	-24.88	-	56.76	74.00	17.24
*7 276.42	35.68	Average	V	36.01	-24.85	4.86	51.70	54.00	2.30

Middle Channel (2 450 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dB μ V)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
*4 898.87	49.66	Peak	V	33.29	-28.82	-	54.13	74.00	19.87
*4 898.93	40.13	Average	V	33.29	-28.82	4.86	49.46	54.00	4.54
*7 348.49	46.51	Peak	V	36.20	-24.88	-	57.83	74.00	16.17
*7 351.42	36.42	Average	V	36.20	-24.89	4.86	52.59	54.00	1.41

High Channel (2 475 MHz)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	DF (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*2 483.50	15.72	Peak	V	28.34	7.73	-	51.79	74.00	22.21
*2 483.50	4.17	Average	V	28.34	7.73	4.86	45.10	54.00	8.90
*2 483.56	16.25	Peak	V	28.34	7.73	-	52.32	74.00	21.68
*2 486.96	4.05	Average	V	28.37	7.73	4.86	45.01	54.00	8.99
*2 500.00	14.62	Peak	V	28.50	7.73	-	50.85	74.00	23.15
*2 500.00	4.11	Average	V	28.50	7.73	4.86	45.20	54.00	8.80

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (MHz)	Reading (dBμV)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	DF (dB)	Actual (dBμV/m)	Limit (dBμV/m)	Margin (dB)
*4 948.98	48.19	Peak	V	33.40	-28.66	-	52.93	74.00	21.07
*7 426.43	45.06	Peak	V	36.15	-25.25	-	55.96	74.00	18.04
*7 423.41	35.52	Average	V	36.15	-25.25	4.86	51.28	54.00	2.72

1. "*" means the restricted band.
2. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
3. Radiated emissions measured in frequency above 1 000 MHz were made with an instrument using peak/average detector mode.
4. Actual = Reading + AF + CL + (DF) or Reading + AF + AMP + CL + (DF).
5. According to § 15.31(o), emission levels are not reported much lower than the limits by over 20 dB.
6. The maximized peak measured value complies with the average limit, to perform an average measurement is unnecessary.
7. AF = Antenna Factor, CL = Cable Loss, DF = Duty Correction Factor.