TEST REPORT

For

able glass

In conformity with

FCC Part 15C

Model Name:	**glass-freecle**
FCC ID:	**2BMFO-FREECLE**
Report No.:	**WE240827CB1-12**
Issue Date:	**14 Jan. 2024**

Prepared for

freecle Inc.
rainbowbldg 1F, 2-20-13 Shimomeguro, Meguro-Ku, Tokyo, 153-0064, Japan

Prepared by

SGS Japan Inc.
3-5-23, Kitayamata, Tsuzuki-ku, Yokohama, 224-0021, Japan
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History

Report No.	Date	Revisions	Issued By
WE240827CB1-11	20 Dec. 2024	Initial Issue	N. Inokawa
WE240827CB1-12	14 Jan. 2025	Corrected antenna information in section 1.1 and 2.9 Revised accreditation information in section 1.3	N. Inokawa

1 General information

1.1 Product description from supplier

Test item	: able glass
Manufacturer	: freecle Inc.
Address	: rainbowbldg 1F, 2-20-13 Shimomeguro, Meguro-Ku, Tokyo, 153-0064, Japan
Model	: glass-freecle
FCC ID	: 2BMFO-FREECLE
Serial number	: No. 1 (for conducted test) No. 3 (for radiated test)
Hardware version	: V1.0.0_20231110
Software version	: V1.0.0_20241001
Operating frequency	: 2402 - 2480MHz
Modulation	: GFSK, π/4-DQPSK, 8DQPSK (Bluetooth 5.1)
Antenna gain	: +1.6 dBi (declared by the applicant)
Rated RF output power	: 2.5 mW (declared by the applicant)
Receipt date of EUT	: 06 Nov. 2024
Nominal power source voltages	: DC 3.7V

1.2 Test(s) performed/ Summary of test result

Test specification(s)	: FCC CFR 47 Part 15 Subpart C (15 Apr. 2024)
Test method(s)	: ANSI C63.10: 2013
Test(s) started	: 11 Nov. 2024
Test(s) completed	: 04 Dec. 2024
Summary of test result	: *Complied*

Note: The above judgment is only based on the measurement data and it does not include the measurement uncertainty. Accordingly, the statement below is applied to the test result.
The EUT complies with the limit required in the standard in case that the margin is not less than the measurement uncertainty in the Laboratory.
Compliance of the EUT is more probable than non-compliance is case that the margin is less than the measurement uncertainty in the Laboratory.

Test engineer : _____
N. Inokawa
C&P Connectivity Wireless RF Lab

Reviewer : _____
T. Takei
Manager, C&P Connectivity Wireless

1.3 Test facility

The Federal Communications Commission has reviewed the technical characteristics of the test facilities at SGS Japan Inc., located in 3-5-23, Kitayamata, Tsuzuki-ku, Yokohama, 224-0021, Japan, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948. The description of the test facilities has been filed under registration number JP5227 at the Office of the Federal Communications Commission. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.
The list of all public test facilities is available on the Internet at https://www.fcc.gov.

Registered by Innovation, Science and Economic Development Canada (ISED):
The registered CAB identifier is JP0009.

Accredited by **American Association for Laboratory Accreditation** (A2LA) for the emission tests stated in the scope of the certificate under Certificate Number 7080.01

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. Government.

1.4 Measurement uncertainty

The treatment of uncertainty is based on the general matters on the definition of uncertainty in “Guide to the expression of uncertainty in measurement (GUM)” published by ISO. The Lab’s uncertainty is determined by referring ETSI TR 100 028-1 V1.4.1.
The uncertainty of the measurement result in the level of confidence of approximately 95% (k=2) is as follows;

AC Conducted emission	: ± 3.3 dB (150 kHz - 30 MHz)
Radiated emission	: ± 5.1 dB (9 kHz - 30 MHz)
	: ± 5.0 dB (30 MHz - 1000 MHz)
	: ± 4.2 dB (1 GHz - 6 GHz)
	: ± 4.3 dB (6 GHz - 18 GHz)
	: ± 4.4 dB (18 GHz - 26 GHz)

1.5 Summary of test results

Requirement	Section in FCC	Result	Section in this report
20dB Bandwidth	15.247 (a)(1)	Complied	2.1
Hopping Carrier Frequency Separation	15.247 (a)(1)	Complied	2.2
Number of Hopping Channel	15.247 (a)(1)(iii)	Complied	2.3
Average Time of Occupancy	15.247 (a)(1)(iii)	Complied	2.4
Maximum Conducted Output Power	15.247 (b)(1)	Complied	2.5
Conducted Spurious Emissions	15.247(d)	Complied	2.6
Radiated Emissions	15.247(d)/15.205(b) /15.209	Complied	2.7
AC power line conducted emissions	15.207	Not Applicable*	2.8
Antenna requirement	15.203	Complied	2.9

Not Applicable*: EUT operates on battery power only.

1.6 Setup of equipment under test (EUT)

1.6.1 Test configuration of EUT

Equipment(s) under test

No.	Item	Manufacture	Model No.	Serial No.
1-1	able glass	freecle Inc.	glass-freecle	No.1
1-2	able glass	freecle Inc.	glass-freecle	No.3

Support equipment(s)

No.	Item	Manufacture	Model No.	Serial No.
2	Debugger	Qualcomm	TRBI200	N179238
3	PC	FUJITSU	FMVU02008	R5300099
4	AC adapter	FUJITSU	A13-065N2A	CP531970-02

Connected cable(s)

No.	Item	From	To	Cable Shielded	Ferrite Core	Length [m]
A	DC cable	1-1, 1-2	DC	No	No	1.0
B	Signal cable	1-1	2	No	No	0.2
C	USB cable	2	3	Yes	No	1.0
D	DC cable	3	4	No	No	1.2
E	AC cable	4	AC	No	No	0.8

Test software

Qualcomm BlueSuite 3.2.3 with the following settings as specified by the applicant;

- LO Freq. (MHz): 2402 (for Tx 2402MHz)
  2441 (for Tx 2441MHz)
  2480 (for Tx 2480MHz)
- Power (Atn, Mag): (3, -8)
- Packet Type: 15 (for DH5 packet)
  30 (for 2DH5 packet)
  31 (for 3DH5 packet)
- Packet Size: 339 (for DH5 packet)
  679 (for 2DH5 packet)
  1021 (for 3DH5 packet)
- TX/RX Int (us): 6250 (for DH5 packet)
  3750 (for 2DH5 and 3DH5 packet)

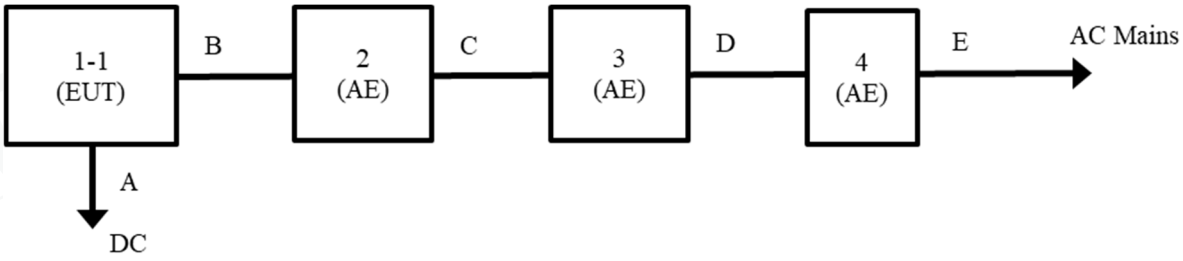
For other settings, the default settings are used.

The duty cycles of the fixed-channel test signals resulting from the above settings are as follows,

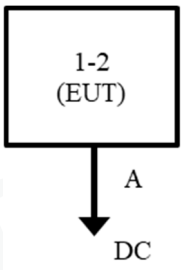
- DH5 packet: 45.6 %
- 2DH5 packet: 76.1%
- 3DH5 packet: 76.1%

1.6.2 Setup diagram of tested system

[Configuration 1]



[Configuration 2]



1.6.3 Operating condition

The following is the list of the test modes shown in this test report.

- Tx 2402MHz DH5: The EUT is in continuous transmission mode at 2402MHz, with DH5 packet
- Tx 2441MHz DH5: The EUT is in continuous transmission mode at 2441MHz, with DH5 packet
- Tx 2480MHz DH5: The EUT is in continuous transmission mode at 2480MHz, with DH5 packet
- Tx Hopping DH5: The EUT is in continuous transmission mode with DH5 packet, hopping-on
- Tx 2402MHz 2DH5: The EUT is in continuous transmission mode at 2402MHz, with 2DH5 packet
- Tx 2441MHz 2DH5: The EUT is in continuous transmission mode at 2440MHz, with 2DH5 packet
- Tx 2480MHz 2DH5: The EUT is in continuous transmission mode at 2480MHz, with 2DH5 packet
- Tx Hopping 2DH5: The EUT is in continuous transmission mode with 2DH5 packet, hopping-on
- Tx 2402MHz 3DH5: The EUT is in continuous transmission mode at 2402MHz, with 3DH5 packet
- Tx 2441MHz 3DH5: The EUT is in continuous transmission mode at 2440MHz, with 3DH5 packet
- Tx 2480MHz 3DH5: The EUT is in continuous transmission mode at 2480MHz, with 3DH5 packet
- Tx Hopping 3DH5: The EUT is in continuous transmission mode with 3DH5 packet, hopping-on

1.7 Equipment modifications

No modifications have been made to the equipment in order to achieve compliance with the applicable standards described in clause 1.2.

1.8 Deviation from the standard

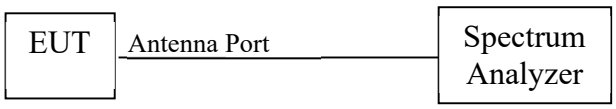
No deviations from the standards described in clause 1.2.

2 Test procedure and test data

2.1 20dB Bandwidth

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 6.9.2

- RBW : 1 to 5 % of OBW
- VBW > 3 x RBW
- Span : OBW x 2 to 5
- Trace : Max hold

Limitation

There are no limitations.
The measurement value is used for the emission designator.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-

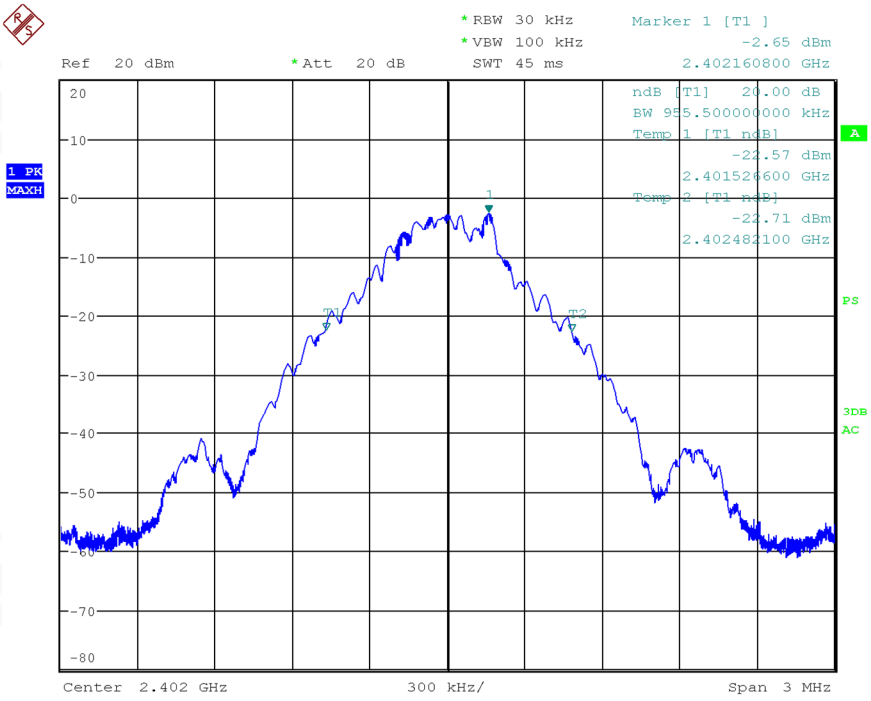
Test data

Configuration: 1

Transmission Frequency [MHz]	Packet	Occupied Bandwidth [kHz]
2402	Tx DH5	955.5
2441	Tx DH5	953.7
2480	Tx DH5	954.6
2402	Tx 2DH5	640.5
2441	Tx 2DH5	640.5
2480	Tx 2DH5	645.9
2402	Tx 3DH5	628.2
2441	Tx 3DH5	646.8
2480	Tx 3DH5	641.1

[Chart]

Operating condition: Tx 2402MHz DH5

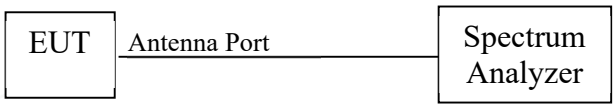


Tested Date:	11 Nov. 2024	Temperature:	21 degC
Humidity:	49 %	Atmos. Press:	1013 hPa

2.2 Hopping Carrier Frequency Separation

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 7.8.2

- RBW: about 30% of OBW
- VBW > RBW
- Trace : Max hold

Applicable rule and limitation

FCC 15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Limit: *more than 637 kHz for DH5 packet*
more than 431 kHz for 2DH5 packet
more than 431 kHz for 3DH5 packet

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-

Test results - *Complied with requirement*

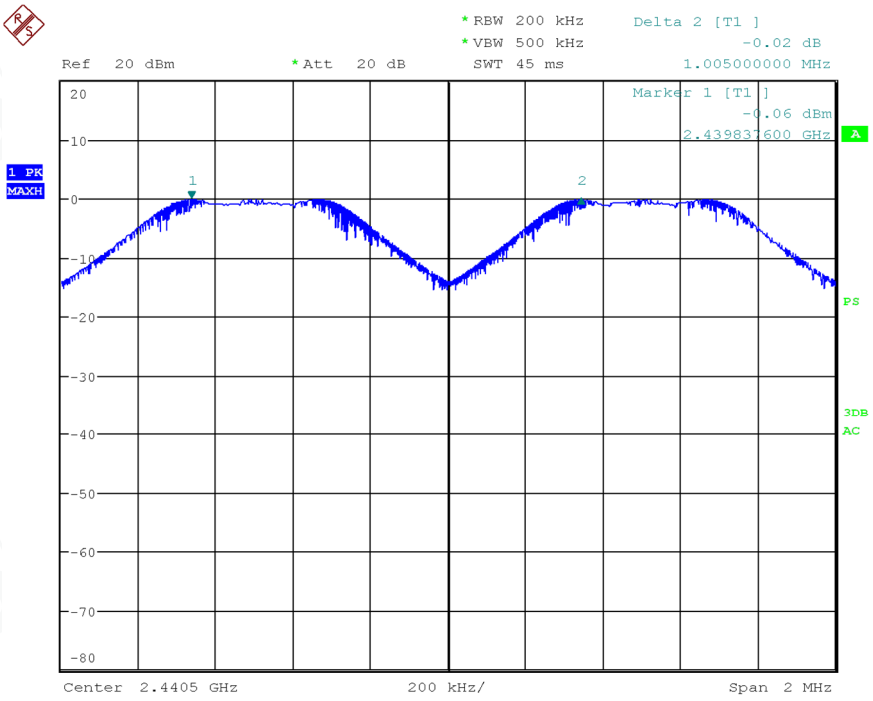
Test Data

Configuration: 1

Mode	Frequency Separation [kHz]	Result
Tx Hopping DH5	1005.0	Pass
Tx Hopping 2DH5	1002.6	Pass
Tx Hopping 3DH5	1005.6	Pass

[Chart]

Operating condition: Tx Hopping DH5

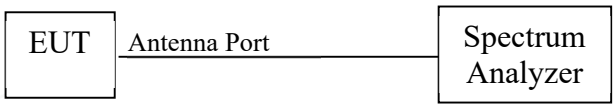


Tested Date:	11 Nov. 2024	Temperature:	21 degC
Humidity:	49 %	Atmos. Press:	1013 hPa

2.3 Number of Hopping Frequencies

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 7.8.3

- RBW: about 30% of OBW
- VBW > RBW
- Trace : Max hold

Applicable rule and limitation

FCC 15.247 (a)(1)(iii)

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-

Test results - *Complied with requirement*

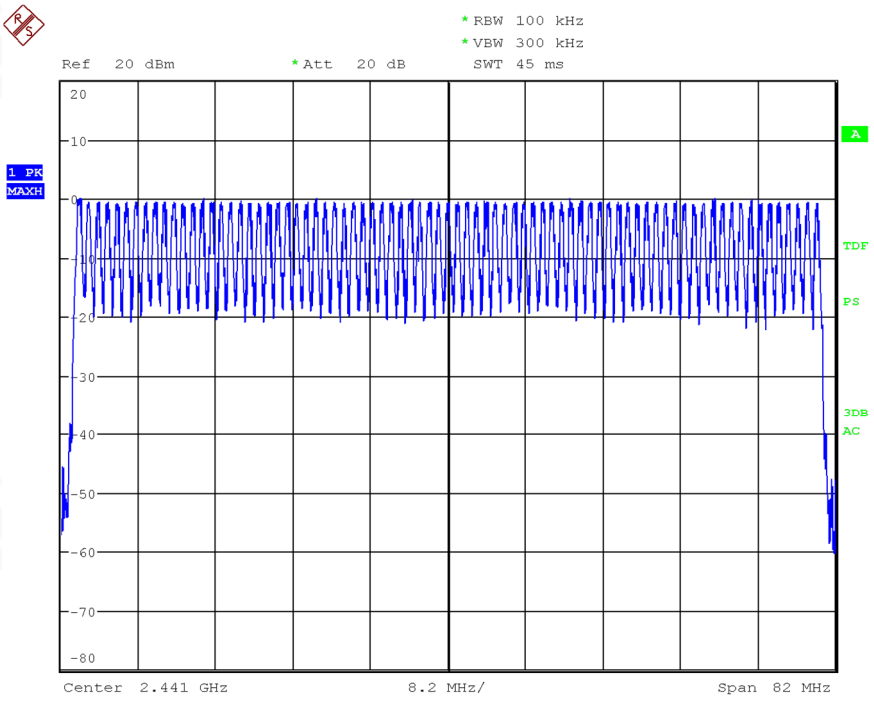
Test Data

Configuration: 1

Mode	Number of hopping frequencies	Result
Tx Hopping DH5	79	Pass
Tx Hopping 2DH5	79	Pass
Tx Hopping 3DH5	79	Pass

[Chart]

Operating condition: Tx Hopping DH5

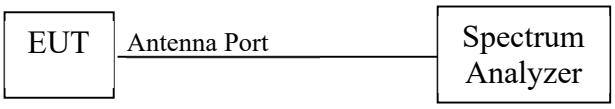


Tested Date:	11 Nov. 2024	Temperature:	21 degC
Humidity:	49 %	Atmos. Press:	1013 hPa

2.4 Average Time of Occupancy

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 7.8.4

- RBW < Channel separation
- Trace : Max hold

Applicable rule and limitation

FCC 15.247 (a)(1)(iii)

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. (31.6 s)

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-

Test results - *Complied with requirement*

Test Data

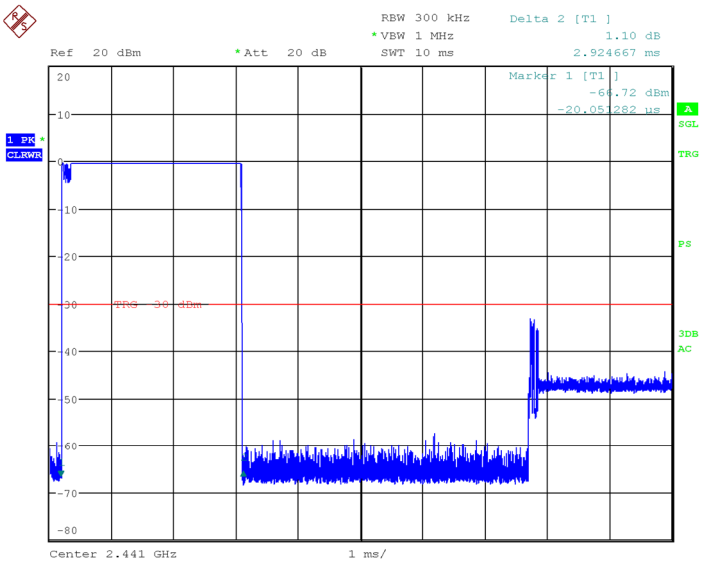
Configuration: 1

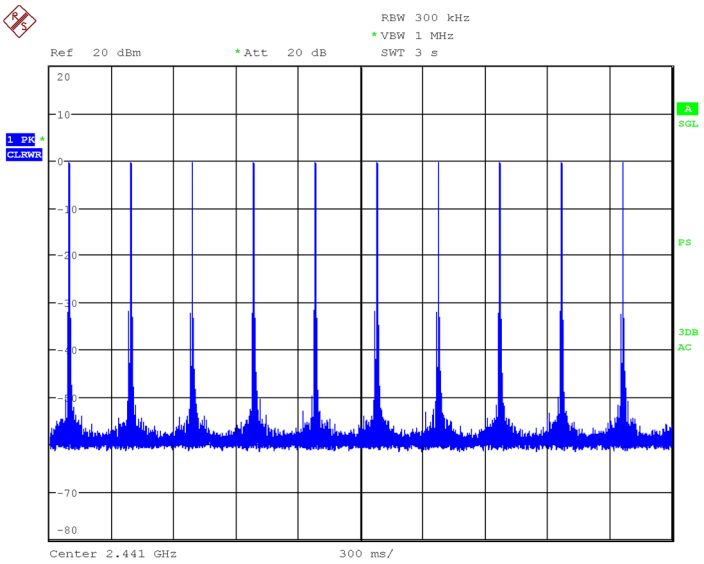
Mode	Tx time per hop [ms]	Number of hops / 3 s	Number of hops / 31.6 s	Time of occupancy [s] (*)	Result
Tx Hopping DH1	0.394	30	316	0.125	Pass
Tx Hopping DH3	1.660	10	105.3	0.175	Pass
Tx Hopping DH5	2.910	6	63.2	0.184	Pass
Tx Hopping 2DH5	2.914	10	105.3	0.307	Pass
Tx Hopping 3DH1	0.398	10	105.3	0.042	Pass
Tx Hopping 3DH3	1.659	10	105.3	0.175	Pass
Tx Hopping 3DH5	2.925	10	105.3	0.308	Pass

(*) The test result was calculated as follows,
Average time of occupancy = (Tx time per hop) x (Number of hops / 31.6 s)

[Chart]

Operating condition: Tx Hopping 3DH5



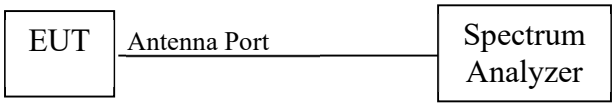


Tested Date:	11 Nov. 2024	Temperature:	21 degC
Humidity:	49 %	Atmos. Press:	1013 hPa

2.5 Maximum Peak Conducted Output Power

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 7.8.5

- RBW > OBW
- Span: about 5 times of OBW
- VBW > RBW
- Trace : Max hold

Applicable rule and limitation

FCC 15.247 (b)(1)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31		

Test results - *Complied with requirement*

Test Data

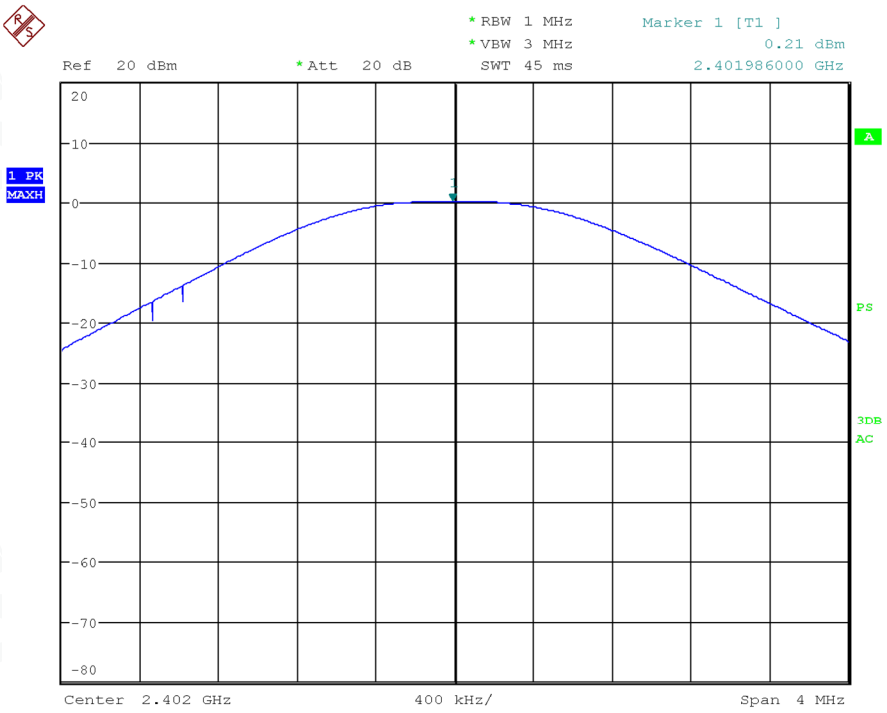
Configuration: 1

Transmission Frequency [MHz]	Mode	Reading [dBm]	Cable Loss [dB] (*)	Output Power [dBm] (**)	Result
2402	Tx DH5	0.01	0.45	0.46	Pass
2441	Tx DH5	-0.07	0.45	0.38	Pass
2480	Tx DH5	-0.39	0.45	0.06	Pass
2402	Tx 2DH5	0.21	0.45	0.66	Pass
2441	Tx 2DH5	-0.16	0.45	0.29	Pass
2480	Tx 2DH5	-0.13	0.45	0.32	Pass
2402	Tx 3DH5	-0.04	0.45	0.41	Pass
2441	Tx 3DH5	-0.11	0.45	0.34	Pass
2480	Tx 3DH5	-0.08	0.45	0.37	Pass

(*) The cable loss is declared by the applicant.
(**) The test result was calculated as follows,
Output Power = (Reading) + (Cable Loss)

[Chart]

Operating condition: Tx 2402MHz 2DH5

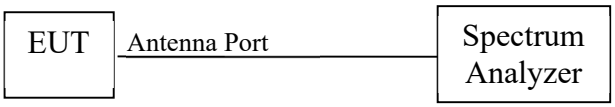


Tested Date:	12 Nov. 2024	Temperature:	23 degC
Humidity:	53 %	Atmos. Press:	1012 hPa

2.6 Conducted Spurious Emissions

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 7.8.8.

- RBW : 100 kHz
- VBW : 300 kHz
- Detector : Peak
- Trace : Max hold

Limitation

FCC 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-

Test results - *Complied with requirement*

Test Data

Configuration: 1

Operating mode: Tx 2402MHz DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2400.0	-54.60	0.14	-19.86
-	-	-	-

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2441MHz DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-
-	-	-	-

Note: All emissions have more than 20 dB margin.

Operating mode: Tx 2480MHz DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.5	-57.59	0.19	-19.81
2488.0	-53.62	0.19	-19.81

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2402MHz 2DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2400.0	-56.48	0.27	-19.73
2399.3	-54.12	0.27	-19.73

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2441MHz 2DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-
-	-	-	-

Note: All emissions have more than 20 dB margin.

Operating mode: Tx 2480MHz 2DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.5	-57.70	0.04	-19.96
2488.0	-50.73	0.04	-19.96

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2402MHz 3DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2400.0	-52.69	0.41	-19.59
-	-	-	-

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2441MHz 3DH5

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-
-	-	-	-

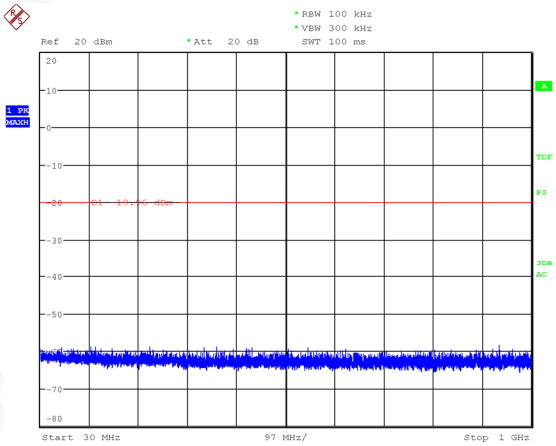
Note: All emissions have more than 20 dB margin.

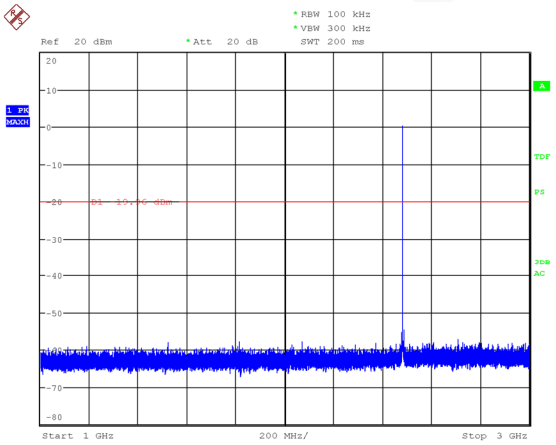
Operating mode: Tx 2480MHz 3DH5

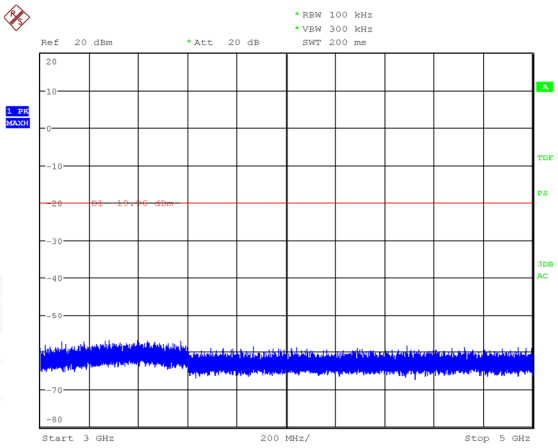
Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.5	-58.95	-0.16	-20.16
2488.0	-52.92	-0.16	-20.16

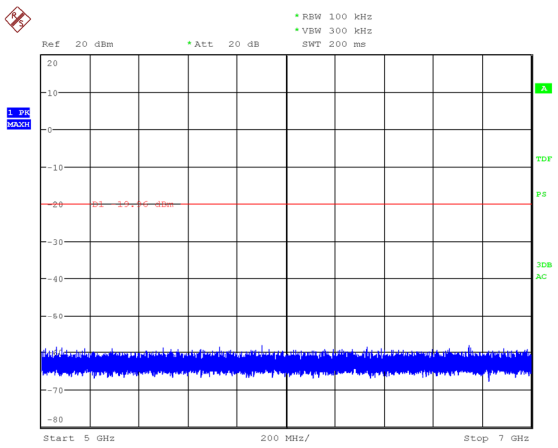
Note: All other emissions have more than 20 dB margin.

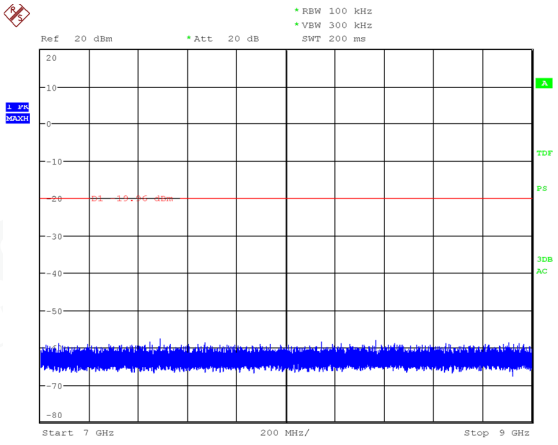
[Chart] Tx 2480MHz 2DH5

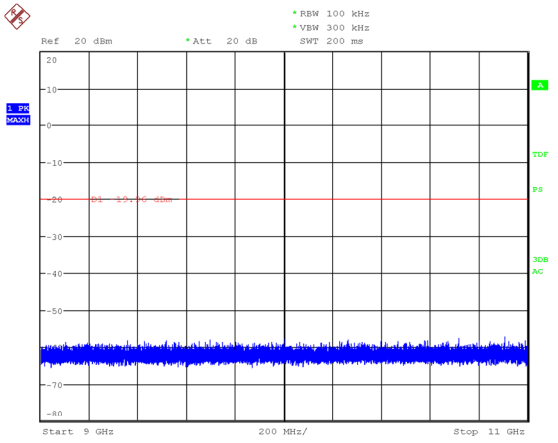


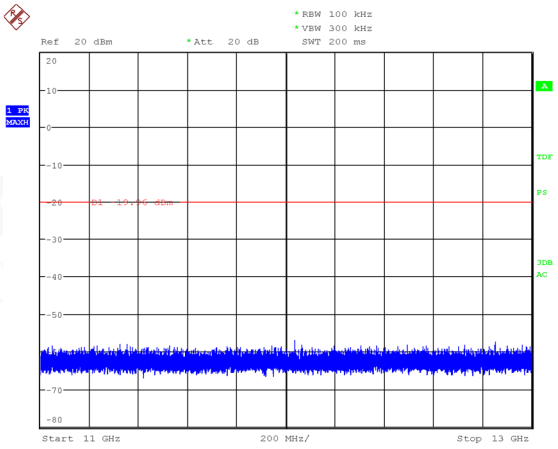


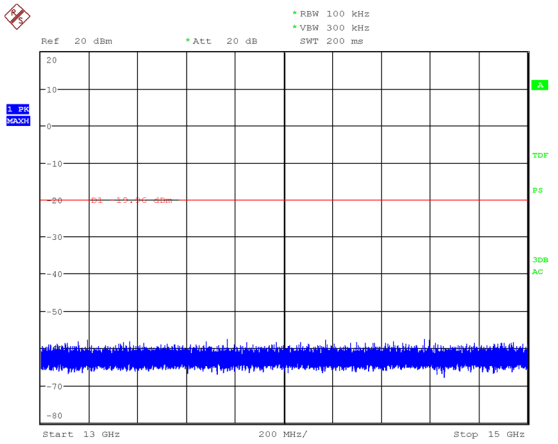


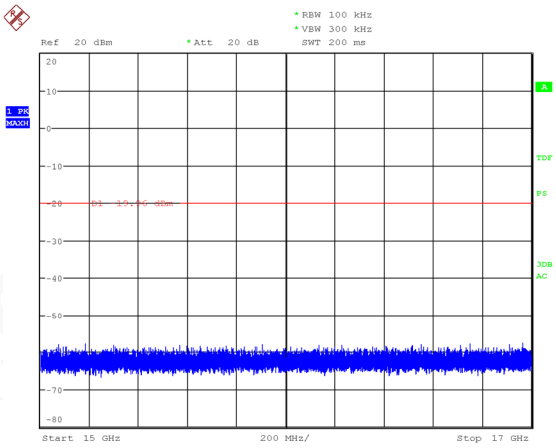


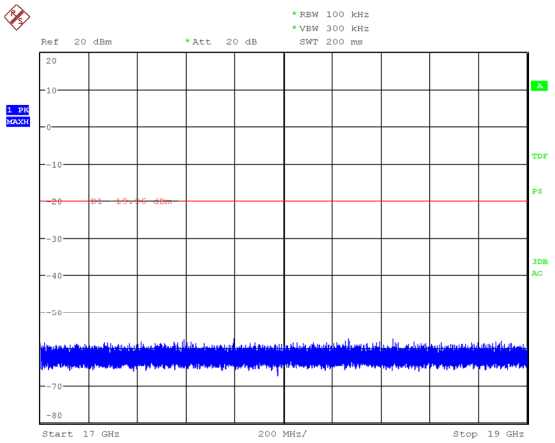


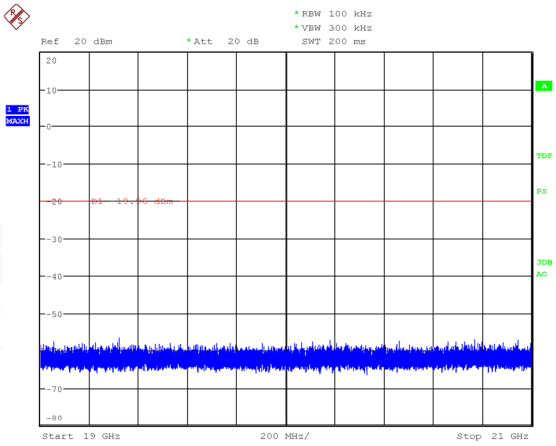


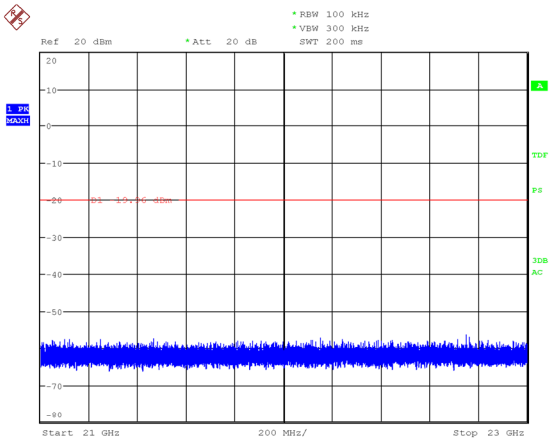


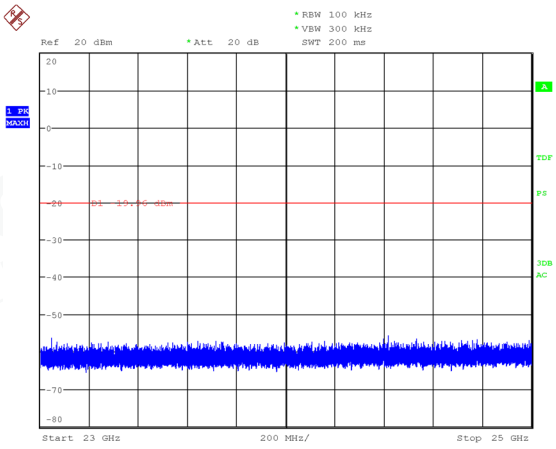






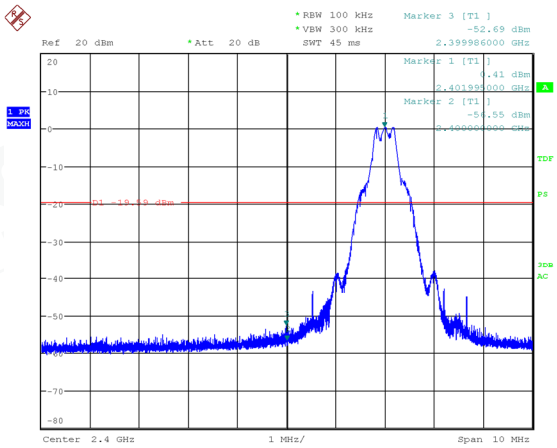




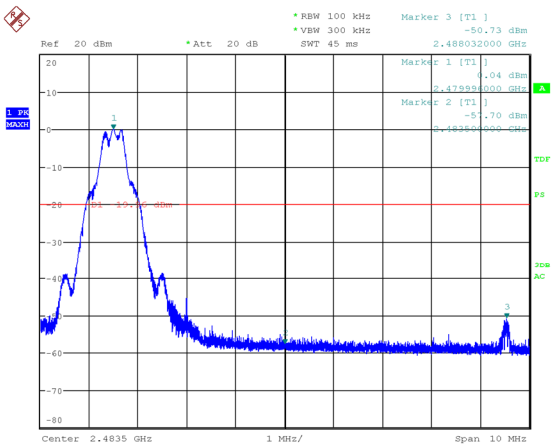


[Band edge]

Tx 2402MHz 3DH5



Tx 2480MHz 2DH5



Tested Date:	12 Nov. 2024	Temperature:	23 degC
Humidity:	53 %	Atmos. Press:	1012 hPa

2.7 Radiated emissions (for restricted frequency band)

Test setup

Test setup was implemented according to the method of ANSI C63.10 clause 6 .

Test procedure

Measurement procedures were implemented according to the method of ANSI C63.10 clauses 6.
The test receiver is set as below

[9 - 150 kHz]
RBW: 200 Hz, Detector: QP

[150 kHz - 30 MHz]
RBW: 9 kHz, Detector: QP

[30 - 1000 MHz]
RBW: 120 kHz, Detector: QP

[above 1000 MHz]
RBW: 1 MHz, Detector: Ave/PK

Applicable rule and limitation

FCC 15.205 restricted bands of operation
Except as shown in paragraph 15.205 (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.490 - 0.510	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	38.6 -

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in FCC 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in FCC 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions.

FCC 15.209 Field strength limits

Frequency [MHz]	Field Strength [μV/m]	Measurement Distance [m]	Field Strength [dBμV/m]
30 – 88	100	3	40.0
88 –216	150	3	43.5
216 – 960	200	3	46.0
Above 960	500	3	53.9

In the emission table above, the tighter limit applies at the band edges.
The emission limits shown in the above table are based on measurements employing a quasi-peak detector.

Test results - *Complied with requirement*

Test equipment used (refer to List of utilized test equipment)

AC01	CL11	TR06	PR21	BA07	CL38	CL39	PR12
DH06	LP06	CL31	BRF12	HPF11	LPF1	AT17	AT33
SH01	SH05	-	-	-	-	-	-

Test software used
EMI1 Ver. 6.1

Calculation method
The Correction Factor and Result are calculated as followings.

Correction Factor [dB/m] = Ant. Factor [dB/m] + Loss [dB] – Gain [dB]
Result [dBμV/m] = Reading [dBμV] + Correction Factor [dB/m]

Test Data (below 1000MHz)

Configuration: 2

Operating mode: Tx 2402MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	520.000	33.6	17.1	11.1	30.2	31.6	46.0	14.4	Hori.
2	524.000	33.7	17.1	11.2	30.2	31.8	46.0	14.2	Hori.
3	528.000	33.9	17.2	11.2	30.2	32.1	46.0	13.9	Hori.
4	531.998	33.9	17.3	11.2	30.2	32.2	46.0	13.8	Hori.
5	535.999	33.8	17.4	11.3	30.2	32.3	46.0	13.7	Hori.
6	840.003	22.5	20.0	12.7	29.8	25.4	46.0	20.6	Hori.

Operating mode: Tx 2402MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	552.000	32.7	18.6	11.4	30.2	32.5	46.0	13.5	Hori.
2	555.998	33.0	18.6	11.4	30.2	32.8	46.0	13.2	Hori.
3	558.000	31.3	18.6	11.4	30.2	31.1	46.0	14.9	Hori.
4	563.998	32.6	18.5	11.5	30.2	32.4	46.0	13.6	Hori.
5	567.998	32.3	18.5	11.5	30.2	32.1	46.0	13.9	Hori.
6	559.998	30.2	18.6	11.5	30.2	30.1	46.0	15.9	Vert.

Operating mode: Tx 2402MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	516.000	29.9	17.1	11.1	30.2	27.9	46.0	18.1	Hori.
2	552.000	29.1	18.6	11.4	30.2	28.9	46.0	17.1	Hori.
3	554.000	27.8	18.6	11.4	30.2	27.6	46.0	18.4	Hori.
4	556.000	29.6	18.6	11.4	30.2	29.4	46.0	16.6	Hori.
5	560.000	29.7	18.6	11.5	30.2	29.6	46.0	16.4	Hori.
6	36.211	22.8	19.3	7.0	30.4	18.7	40.0	21.3	Vert.
7	872.102	20.7	20.7	12.9	29.6	24.7	46.0	21.3	Vert.

Operating mode: Tx 2441MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	532.000	33.5	17.3	11.2	30.2	31.8	46.0	14.2	Hori.
2	536.001	33.5	17.4	11.3	30.2	32.0	46.0	14.0	Hori.
3	540.001	32.7	17.8	11.3	30.2	31.6	46.0	14.4	Hori.
4	542.000	30.5	18.0	11.3	30.2	29.6	46.0	16.4	Hori.
5	544.001	29.3	18.3	11.3	30.2	28.7	46.0	17.3	Hori.
6	547.999	31.1	18.5	11.4	30.2	30.8	46.0	15.2	Hori.

Operating mode: Tx 2441MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	527.998	31.4	17.2	11.2	30.2	29.6	46.0	16.4	Hori.
2	553.998	31.2	18.6	11.4	30.2	31.0	46.0	15.0	Hori.
3	555.998	32.8	18.6	11.4	30.2	32.6	46.0	13.4	Hori.
4	559.998	32.6	18.6	11.5	30.2	32.5	46.0	13.5	Hori.
5	564.000	32.4	18.5	11.5	30.2	32.2	46.0	13.8	Hori.
6	567.997	31.9	18.5	11.5	30.2	31.7	46.0	14.3	Hori.

Operating mode: Tx 2441MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	568.000	30.2	18.5	11.5	30.2	30.0	46.0	16.0	Hori.
2	571.999	30.0	18.5	11.5	30.2	29.8	46.0	16.2	Hori.
3	576.000	29.9	18.5	11.6	30.2	29.8	46.0	16.2	Hori.
4	579.998	29.8	18.5	11.6	30.2	29.7	46.0	16.3	Hori.
5	583.999	29.8	18.5	11.6	30.2	29.7	46.0	16.3	Hori.
6	910.671	20.7	20.4	13.1	29.2	25.0	46.0	21.0	Vert.

Operating mode: Tx 2480MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	524.002	32.1	17.2	11.2	30.2	30.3	46.0	15.7	Hori.
2	532.000	32.5	17.3	11.2	30.2	30.8	46.0	15.2	Hori.
3	534.002	30.6	17.3	11.2	30.2	28.9	46.0	17.1	Hori.
4	535.999	32.3	17.4	11.3	30.2	30.8	46.0	15.2	Hori.
5	540.001	31.4	17.8	11.3	30.2	30.3	46.0	15.7	Hori.
6	567.999	30.5	18.5	11.5	30.2	30.3	46.0	15.7	Hori.

Operating mode: Tx 2480MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	531.999	30.6	17.3	11.2	30.2	28.9	46.0	17.1	Hori.
2	548.001	31.8	18.6	11.4	30.2	31.6	46.0	14.4	Hori.
3	551.999	32.2	18.6	11.4	30.2	32.0	46.0	14.0	Hori.
4	559.999	32.4	18.6	11.5	30.2	32.3	46.0	13.7	Hori.
5	563.999	31.9	18.5	11.5	30.2	31.7	46.0	14.3	Hori.
6	568.000	31.5	18.5	11.5	30.2	31.3	46.0	14.7	Hori.

Operating mode: Tx 2480MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	552.001	27.2	18.6	11.4	30.2	27.0	46.0	19.0	Hori.
2	556.000	27.8	18.6	11.4	30.2	27.6	46.0	18.4	Hori.
3	560.001	29.2	18.6	11.5	30.2	29.1	46.0	16.9	Hori.
4	563.998	29.6	18.5	11.5	30.2	29.4	46.0	16.6	Hori.
5	568.000	29.7	18.5	11.5	30.2	29.5	46.0	16.5	Hori.
6	579.998	29.4	18.5	11.6	30.2	29.3	46.0	16.7	Hori.

Operating mode: Tx 2402MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	456.000	33.7	16.5	10.7	30.2	30.7	46.0	15.3	Hori.
2	495.999	31.8	17.1	10.9	30.2	29.6	46.0	16.4	Hori.
3	504.000	32.0	17.1	11.0	30.2	29.9	46.0	16.1	Hori.
4	535.999	32.7	17.4	11.3	30.2	31.2	46.0	14.8	Hori.
5	544.000	32.0	18.3	11.3	30.2	31.4	46.0	14.6	Hori.
6	551.999	30.6	18.6	11.4	30.2	30.4	46.0	15.6	Hori.

Operating mode: Tx 2402MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	551.999	32.7	18.6	11.4	30.2	32.5	46.0	13.5	Hori.
2	555.999	33.0	18.6	11.4	30.2	32.8	46.0	13.2	Hori.
3	559.999	32.9	18.6	11.5	30.2	32.8	46.0	13.2	Hori.
4	563.999	32.3	18.5	11.5	30.2	32.1	46.0	13.9	Hori.
5	568.000	32.2	18.5	11.5	30.2	32.0	46.0	14.0	Hori.
6	571.999	31.8	18.5	11.5	30.2	31.6	46.0	14.4	Hori.

Operating mode: Tx 2402MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	560.000	30.4	18.6	11.5	30.2	30.3	46.0	15.7	Hori.
2	564.000	30.8	18.5	11.5	30.2	30.6	46.0	15.4	Hori.
3	565.998	29.2	18.5	11.5	30.2	29.0	46.0	17.0	Hori.
4	567.998	30.8	18.5	11.5	30.2	30.6	46.0	15.4	Hori.
5	571.999	30.6	18.5	11.5	30.2	30.4	46.0	15.6	Hori.
6	575.999	30.5	18.5	11.6	30.2	30.4	46.0	15.6	Hori.

Operating mode: Tx 2441MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	520.000	33.8	17.1	11.1	30.2	31.8	46.0	14.2	Hori.
2	527.998	33.6	17.2	11.2	30.2	31.8	46.0	14.2	Hori.
3	547.998	32.5	18.5	11.4	30.2	32.2	46.0	13.8	Hori.
4	560.000	31.1	18.6	11.5	30.2	31.0	46.0	15.0	Hori.
5	882.463	25.3	20.4	12.9	29.5	29.1	46.0	16.9	Hori.
6	783.887	30.2	19.7	12.5	30.1	32.3	46.0	13.7	Vert.

Operating mode: Tx 2441MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	543.999	32.0	18.2	11.3	30.2	31.3	46.0	14.7	Hori.
2	551.999	32.8	18.6	11.4	30.2	32.6	46.0	13.4	Hori.
3	555.999	32.8	18.6	11.4	30.2	32.6	46.0	13.4	Hori.
4	559.999	32.9	18.6	11.5	30.2	32.8	46.0	13.2	Hori.
5	563.997	32.5	18.5	11.5	30.2	32.3	46.0	13.7	Hori.
6	575.997	31.0	18.5	11.6	30.2	30.9	46.0	15.1	Hori.

Operating mode: Tx 2441MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	535.998	29.7	17.4	11.3	30.2	28.2	46.0	17.8	Hori.
2	555.999	28.9	18.6	11.4	30.2	28.7	46.0	17.3	Hori.
3	559.999	30.3	18.6	11.5	30.2	30.2	46.0	15.8	Hori.
4	563.999	30.7	18.5	11.5	30.2	30.5	46.0	15.5	Hori.
5	567.998	30.7	18.5	11.5	30.2	30.5	46.0	15.5	Hori.
6	573.999	28.8	18.5	11.6	30.2	28.7	46.0	17.3	Hori.

Operating mode: Tx 2480MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	527.998	33.9	17.2	11.2	30.2	32.1	46.0	13.9	Hori.
2	532.000	34.4	17.3	11.2	30.2	32.7	46.0	13.3	Hori.
3	535.999	34.9	17.4	11.3	30.2	33.4	46.0	12.6	Hori.
4	544.001	34.4	18.3	11.3	30.2	33.8	46.0	12.2	Hori.
5	548.000	34.4	18.5	11.4	30.2	34.1	46.0	11.9	Hori.
6	551.998	34.1	18.6	11.4	30.2	33.9	46.0	12.1	Hori.

Operating mode: Tx 2480MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	548.000	32.1	18.5	11.4	30.2	31.8	46.0	14.2	Hori.
2	552.000	32.4	18.6	11.4	30.2	32.2	46.0	13.8	Hori.
3	555.998	32.6	18.6	11.4	30.2	32.4	46.0	13.6	Hori.
4	559.999	32.4	18.6	11.5	30.2	32.3	46.0	13.7	Hori.
5	563.999	32.2	18.5	11.5	30.2	32.0	46.0	14.0	Hori.
6	568.001	31.6	18.5	11.5	30.2	31.4	46.0	14.6	Hori.

Operating mode: Tx 2480MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	560.000	29.6	18.6	11.5	30.2	29.5	46.0	16.5	Hori.
2	565.997	28.5	18.5	11.5	30.2	28.3	46.0	17.7	Hori.
3	567.999	30.1	18.5	11.5	30.2	29.9	46.0	16.1	Hori.
4	571.999	30.0	18.5	11.5	30.2	29.8	46.0	16.2	Hori.
5	578.000	28.3	18.5	11.6	30.2	28.2	46.0	17.8	Hori.
6	826.290	21.0	19.8	12.7	29.9	23.6	46.0	22.4	Hori.

Operating mode: Tx 2402MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	451.998	33.3	16.4	10.7	30.2	30.2	46.0	15.8	Hori.
2	459.998	33.2	16.6	10.7	30.2	30.3	46.0	15.7	Hori.
3	499.999	32.3	17.1	10.9	30.2	30.1	46.0	15.9	Hori.
4	511.999	31.8	17.1	11.1	30.2	29.8	46.0	16.2	Hori.
5	536.000	32.6	17.4	11.3	30.2	31.1	46.0	14.9	Hori.
6	540.000	32.2	17.8	11.3	30.2	31.1	46.0	14.9	Hori.

Operating mode: Tx 2402MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	551.999	32.7	18.6	11.4	30.2	32.5	46.0	13.5	Hori.
2	555.999	32.8	18.6	11.4	30.2	32.6	46.0	13.4	Hori.
3	559.999	32.8	18.6	11.5	30.2	32.7	46.0	13.3	Hori.
4	564.000	32.6	18.5	11.5	30.2	32.4	46.0	13.6	Hori.
5	565.998	31.3	18.5	11.5	30.2	31.1	46.0	14.9	Hori.
6	571.999	31.7	18.5	11.5	30.2	31.5	46.0	14.5	Hori.

Operating mode: Tx 2402MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	553.999	27.2	18.6	11.4	30.2	27.0	46.0	19.0	Hori.
2	559.999	30.4	18.6	11.5	30.2	30.3	46.0	15.7	Hori.
3	563.999	30.7	18.5	11.5	30.2	30.5	46.0	15.5	Hori.
4	567.999	30.8	18.5	11.5	30.2	30.6	46.0	15.4	Hori.
5	571.999	30.6	18.5	11.5	30.2	30.4	46.0	15.6	Hori.
6	576.000	30.5	18.5	11.6	30.2	30.4	46.0	15.6	Hori.
7	583.998	30.4	18.5	11.6	30.2	30.3	46.0	15.7	Hori.

Operating mode: Tx 2441MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	456.001	33.1	16.5	10.7	30.2	30.1	46.0	15.9	Hori.
2	467.999	31.8	16.8	10.8	30.2	29.2	46.0	16.8	Hori.
3	503.999	32.2	17.1	11.0	30.2	30.1	46.0	15.9	Hori.
4	515.999	31.7	17.1	11.1	30.2	29.7	46.0	16.3	Hori.
5	539.998	32.0	17.7	11.3	30.2	30.8	46.0	15.2	Hori.
6	543.998	31.5	18.2	11.3	30.2	30.8	46.0	15.2	Hori.

Operating mode: Tx 2441MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	551.999	33.5	18.6	11.4	30.2	33.3	46.0	12.7	Hori.
2	555.999	33.7	18.6	11.4	30.2	33.5	46.0	12.5	Hori.
3	557.999	32.4	18.6	11.4	30.2	32.2	46.0	13.8	Hori.
4	563.999	34.0	18.5	11.5	30.2	33.8	46.0	12.2	Hori.
5	567.998	34.1	18.5	11.5	30.2	33.9	46.0	12.1	Hori.
6	571.998	34.2	18.5	11.5	30.2	34.0	46.0	12.0	Hori.

Operating mode: Tx 2441MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	564.000	30.7	18.5	11.5	30.2	30.5	46.0	15.5	Hori.
2	567.998	30.7	18.5	11.5	30.2	30.5	46.0	15.5	Hori.
3	571.999	30.5	18.5	11.5	30.2	30.3	46.0	15.7	Hori.
4	575.999	30.4	18.5	11.6	30.2	30.3	46.0	15.7	Hori.
5	833.996	22.3	19.9	12.7	29.8	25.1	46.0	20.9	Hori.
6	931.025	20.8	20.6	13.2	29.0	25.6	46.0	20.4	Vert.

Operating mode: Tx 2480MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	457.998	31.5	16.5	10.7	30.2	28.5	46.0	17.5	Hori.
2	462.001	31.4	16.7	10.7	30.2	28.6	46.0	17.4	Hori.
3	497.999	30.2	17.1	10.9	30.2	28.0	46.0	18.0	Hori.
4	500.000	31.2	17.1	10.9	30.2	29.0	46.0	17.0	Hori.
5	536.000	32.1	17.4	11.3	30.2	30.6	46.0	15.4	Hori.
6	543.999	31.2	18.2	11.3	30.2	30.5	46.0	15.5	Hori.

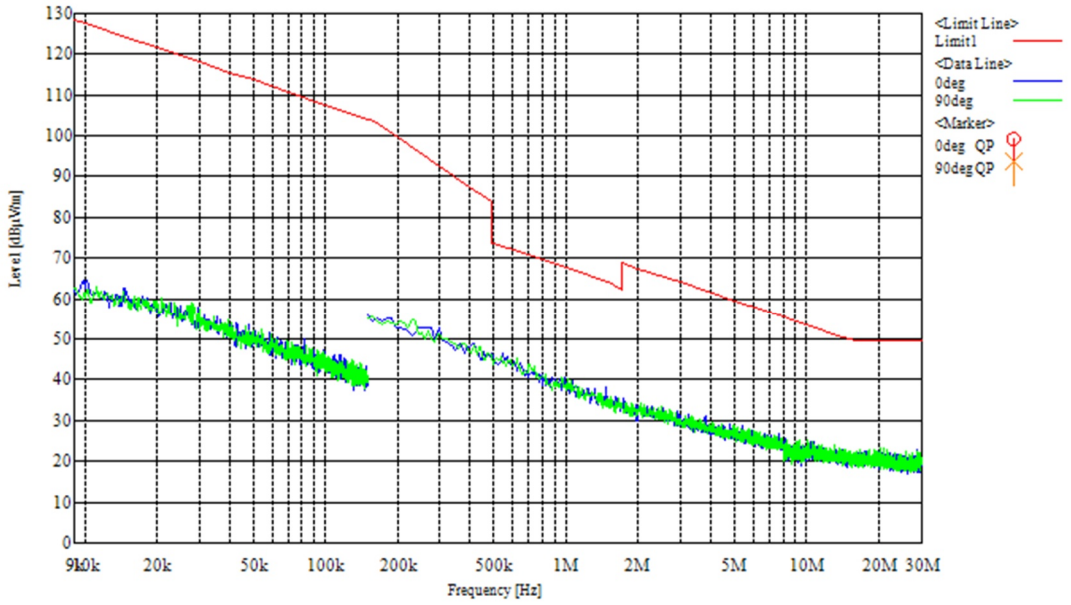
Operating mode: Tx 2480MHz 3DH5 Y-plane
[Emission level]

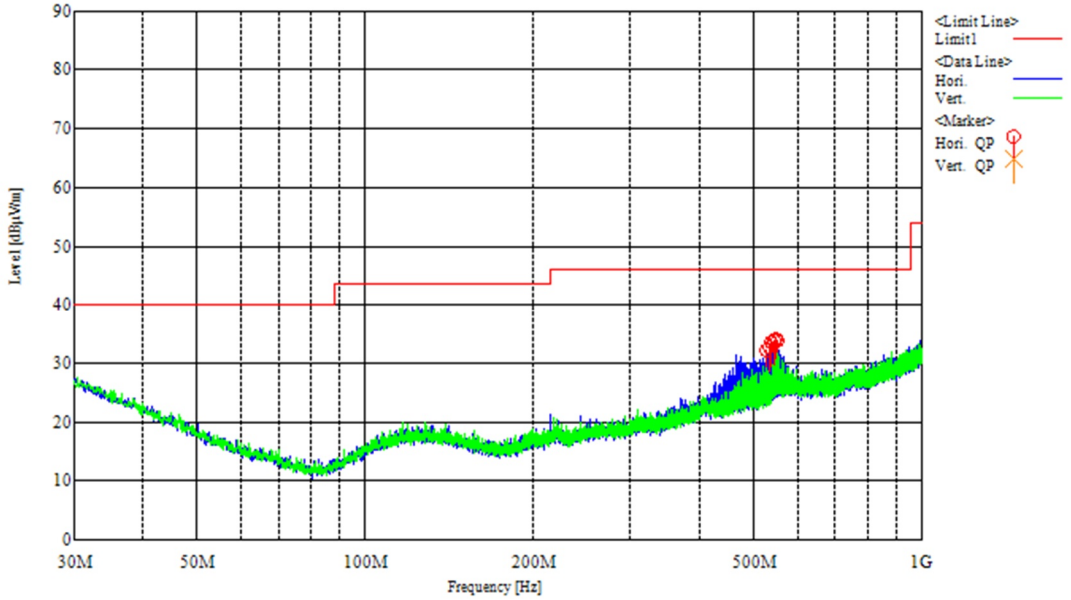
No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	544.001	33.0	18.3	11.3	30.2	32.4	46.0	13.6	Hori.
2	555.999	33.3	18.6	11.4	30.2	33.1	46.0	12.9	Hori.
3	559.998	33.5	18.6	11.5	30.2	33.4	46.0	12.6	Hori.
4	561.999	32.1	18.5	11.5	30.2	31.9	46.0	14.1	Hori.
5	564.000	33.6	18.5	11.5	30.2	33.4	46.0	12.6	Hori.
6	572.000	33.8	18.5	11.5	30.2	33.6	46.0	12.4	Hori.

Operating mode: Tx 2480MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading [dBµV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Ant.
1	560.000	29.5	18.6	11.5	30.2	29.4	46.0	16.6	Hori.
2	562.000	28.2	18.5	11.5	30.2	28.0	46.0	18.0	Hori.
3	564.000	30.0	18.5	11.5	30.2	29.8	46.0	16.2	Hori.
4	568.000	30.1	18.5	11.5	30.2	29.9	46.0	16.1	Hori.
5	571.999	30.0	18.5	11.5	30.2	29.8	46.0	16.2	Hori.
6	575.999	29.9	18.5	11.6	30.2	29.8	46.0	16.2	Hori.

[Chart] Tx 2480MHz 2DH5 X-plane





[Day1]

Tested Date:	13 Nov. 2024	Temperature:	20 degC
Humidity:	57 %	Atmos. Press:	1017 hPa

[Day2]

Tested Date:	18 Nov. 2024	Temperature:	21 degC
Humidity:	47 %	Atmos. Press:	1013 hPa

[Day3]

Tested Date:	04 Dec. 2024	Temperature:	22 degC
Humidity:	40 %	Atmos. Press:	1007 hPa

Test Data (above 1000MHz)

Configuration: 2

Operating mode: Tx 2402MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.983	44.2	31.6	2.1	46.3	40.5	73.9	53.9	27.6	13.4	Hori.
2	4804.159	43.5	30.0	2.1	45.6	38.9	73.9	53.9	28.3	15.0	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.077	44.5	31.6	2.1	46.6	40.5	73.9	53.9	27.3	13.4	Hori.
2	4803.923	43.2	30.7	2.1	45.3	39.6	73.9	53.9	28.6	14.3	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.031	43.9	31.8	2.1	46.0	40.7	73.9	53.9	27.9	13.2	Hori.
2	4803.974	43.2	30.7	2.1	45.3	39.6	73.9	53.9	28.6	14.3	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4881.969	42.6	29.5	2.6	45.2	38.9	73.9	53.9	28.7	15.0	Hori.
-	-	-	-	-	-	-	-	-	-	-	-

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4882.061	42.2	28.9	2.6	44.8	38.3	73.9	53.9	29.1	15.6	Hori.
2	7322.545	42.5	28.0	6.9	49.4	41.7	73.9	53.9	24.5	12.2	Hori.
3	7323.120	42.1	28.7	6.9	49.0	42.4	73.9	53.9	24.9	11.5	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7322.952	42.2	29.4	6.9	49.1	43.1	73.9	53.9	24.8	10.8	Hori.
-	-	-	-	-	-	-	-	-	-	-	-

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7440.442	42.7	28.9	7.3	50.0	43.0	73.9	53.9	23.9	10.9	Hori.
2	7439.557	42.5	28.4	7.3	49.8	42.5	73.9	53.9	24.1	11.4	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7439.520	42.4	28.7	7.3	49.7	42.8	73.9	53.9	24.2	11.1	Hori.
2	4960.143	42.4	28.6	2.7	45.1	38.1	73.9	53.9	28.8	15.8	Vert.
3	7439.931	42.6	29.3	7.3	49.9	43.4	73.9	53.9	24.0	10.5	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.851	43.2	29.6	2.7	45.9	39.1	73.9	53.9	28.0	14.8	Hori.
2	7439.897	43.3	29.6	7.3	50.6	43.7	73.9	53.9	23.3	10.2	Hori.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.022	44.8	35.1	2.1	46.9	39.6	73.9	53.9	27.0	14.3	Hori.
2	4803.987	43.9	32.7	2.1	46.0	37.2	73.9	53.9	27.9	16.7	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.990	44.8	34.9	2.1	46.9	39.4	73.9	53.9	27.0	14.5	Hori.
2	4803.994	43.9	33.1	2.1	46.0	37.6	73.9	53.9	27.9	16.3	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.009	44.6	34.7	2.1	46.7	39.2	73.9	53.9	27.2	14.7	Hori.
2	4803.989	43.9	33.7	2.1	46.0	38.2	73.9	53.9	27.9	15.7	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4881.997	43.2	31.7	2.6	45.8	36.7	73.9	53.9	28.1	17.2	Hori.
2	7323.005	42.4	30.4	6.9	49.3	39.7	73.9	53.9	24.6	14.2	Hori.
3	4881.971	42.8	31.1	2.6	45.4	36.1	73.9	53.9	28.5	17.8	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7322.993	42.5	30.6	6.9	49.4	39.9	73.9	53.9	24.5	14.0	Hori.
2	7322.987	42.6	31.8	6.9	49.5	41.1	73.9	53.9	24.4	12.8	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7322.980	43.1	32.8	6.9	50.0	42.1	73.9	53.9	23.9	11.8	Hori.
2	7323.014	43.0	30.8	6.9	49.9	40.1	73.9	53.9	24.0	13.8	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4960.063	43.3	30.9	2.7	46.0	36.0	73.9	53.9	27.9	17.9	Hori.
2	7440.039	43.0	31.2	7.3	50.3	40.9	73.9	53.9	23.6	13.0	Hori.
3	7440.020	42.8	30.6	7.3	50.1	40.3	73.9	53.9	23.8	13.6	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7439.997	42.4	30.3	7.3	49.7	40.0	73.9	53.9	24.2	13.9	Hori.
2	7439.988	43.0	31.2	7.3	50.3	40.9	73.9	53.9	23.6	13.0	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.999	43.4	31.4	2.7	46.1	36.5	73.9	53.9	27.8	17.4	Hori.
2	7439.968	43.5	32.5	7.3	50.8	42.2	73.9	53.9	23.1	11.7	Hori.
3	7440.001	43.3	30.7	7.3	50.6	40.4	73.9	53.9	23.3	13.5	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.994	45.4	35.3	2.1	47.5	39.8	73.9	53.9	26.4	14.1	Hori.
2	4804.016	43.8	32.8	2.1	45.9	37.3	73.9	53.9	28.0	16.6	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.997	44.4	34.9	2.1	46.5	39.4	73.9	53.9	27.4	14.5	Hori.
2	4803.999	43.9	33.2	2.1	46.0	37.7	73.9	53.9	27.9	16.2	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2402MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.008	44.4	34.7	2.1	46.5	39.2	73.9	53.9	27.4	14.7	Hori.
2	4803.994	43.9	33.7	2.1	46.0	38.2	73.9	53.9	27.9	15.7	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4881.996	43.5	32.2	2.6	46.1	37.2	73.9	53.9	27.8	16.7	Hori.
2	4882.015	43.0	31.3	2.6	45.6	36.3	73.9	53.9	28.3	17.6	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7322.995	42.4	30.6	6.9	49.3	39.9	73.9	53.9	24.6	14.0	Hori.
2	7322.998	42.8	31.7	6.9	49.7	41.0	73.9	53.9	24.2	12.9	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2441MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7322.990	43.5	32.6	6.9	50.4	41.9	73.9	53.9	23.5	12.0	Hori.
2	7322.978	42.3	30.9	6.9	49.2	40.2	73.9	53.9	24.7	13.7	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7439.997	43.0	30.9	7.3	50.3	40.6	73.9	53.9	23.6	13.3	Hori.
2	7439.993	42.5	30.3	7.3	49.8	40.0	73.9	53.9	24.1	13.9	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

Operating mode: Tx 2480MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.997	43.7	30.9	2.7	46.4	36.0	73.9	53.9	27.5	17.9	Hori.
2	7440.023	43.3	31.1	7.3	50.6	40.8	73.9	53.9	23.3	13.1	Hori.
3	7439.998	43.3	31.8	7.3	50.6	41.5	73.9	53.9	23.3	12.4	Vert.

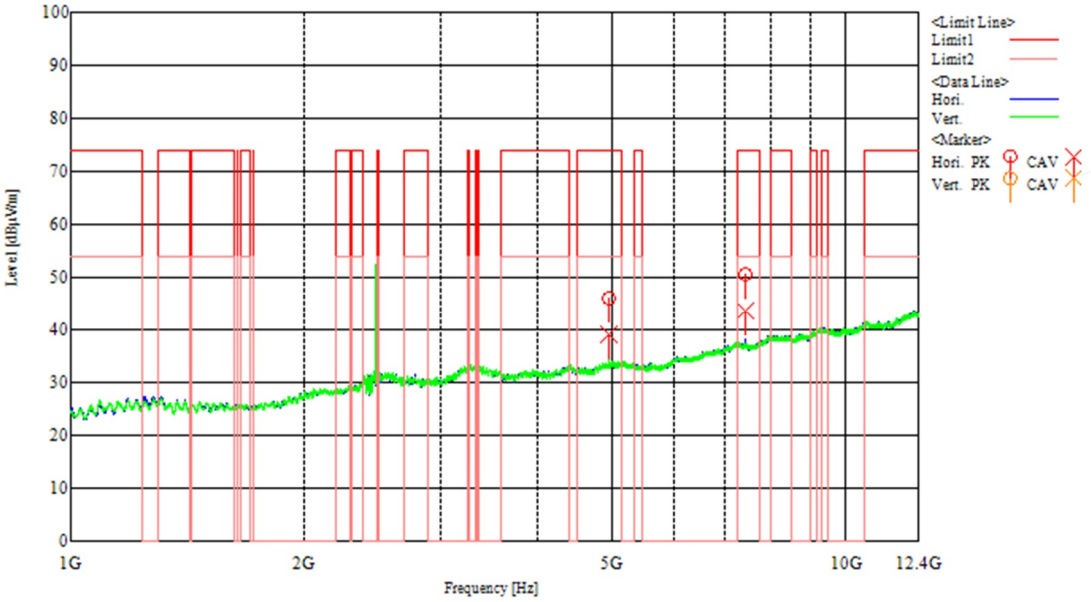
Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

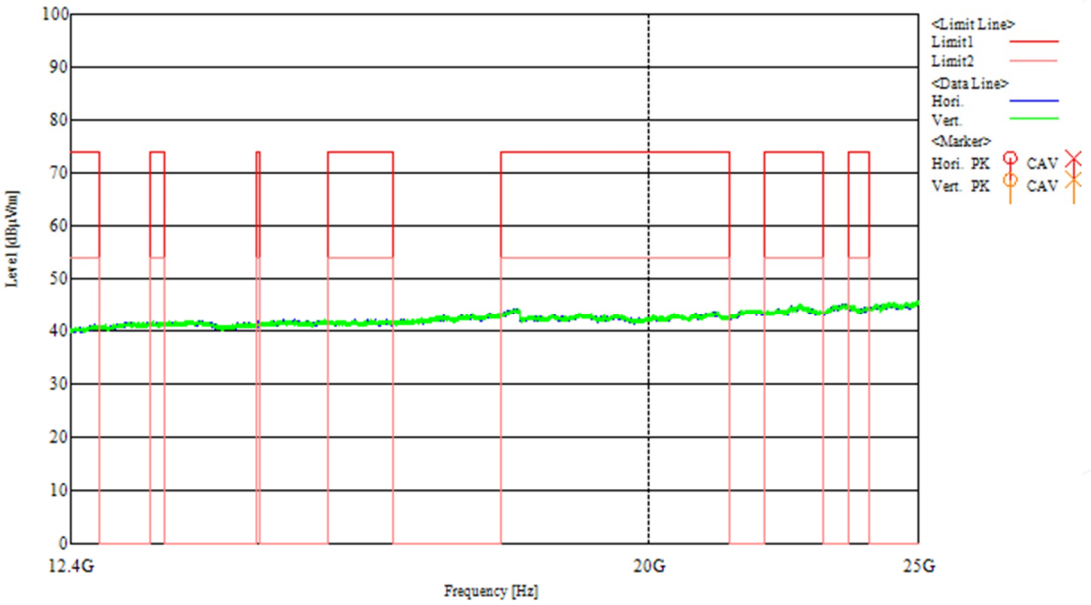
Operating mode: Tx 2480MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4960.009	43.3	31.3	2.7	46.0	36.4	73.9	53.9	27.9	17.5	Hori.
2	7439.966	43.1	32.5	7.3	50.4	42.2	73.9	53.9	23.5	11.7	Hori.
3	7440.004	42.6	30.1	7.3	49.9	39.8	73.9	53.9	24.0	14.1	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).
Note: All other emissions have more than 20 dB margin or are below the noise floor.

[Chart] Tx 2480MHz DH5 Z-plane





[Day1]

Tested Date:	28 Nov. 2024	Temperature:	19 degC
Humidity:	42 %	Atmos. Press:	1004 hPa

[Day2]

Tested Date:	02 Dec. 2024	Temperature:	19 degC
Humidity:	40 %	Atmos. Press:	1015 hPa

[Day3]

Tested Date:	03 Dec. 2024	Temperature:	18 degC
Humidity:	47 %	Atmos. Press:	1015 hPa

Test Data (Restricted band edge)

Configuration: 2

Operating mode: Tx 2402MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.2	31.5	4.8	50.0	43.1	73.9	53.9	23.9	10.8	Hori.
2	2390.000	45.7	31.5	4.8	50.5	43.1	73.9	53.9	23.4	10.8	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).

Operating mode: Tx 2402MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.2	31.5	4.8	50.0	43.1	73.9	53.9	23.9	10.8	Hori.
2	2390.000	45.7	31.3	4.8	50.5	42.9	73.9	53.9	23.4	11.0	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).

Operating mode: Tx 2402MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	44.8	31.4	4.8	49.6	43.0	73.9	53.9	24.3	10.9	Hori.
2	2390.000	45.3	31.5	4.8	50.1	43.1	73.9	53.9	23.8	10.8	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).

Operating mode: Tx 2480MHz DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	52.4	32.6	5.4	57.8	44.8	73.9	53.9	16.1	9.1	Hori.
2	2483.500	45.7	31.7	5.4	51.1	43.9	73.9	53.9	22.8	10.0	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).

Operating mode: Tx 2480MHz DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	53.5	32.6	5.4	58.9	44.8	73.9	53.9	15.0	9.1	Hori.
2	2483.500	45.7	31.7	5.4	51.1	43.9	73.9	53.9	22.8	10.0	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).

Operating mode: Tx 2480MHz DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	50.9	32.0	5.4	56.3	44.2	73.9	53.9	17.6	9.7	Hori.
2	2483.500	52.4	32.3	5.4	57.8	44.5	73.9	53.9	16.1	9.4	Vert.

Note: 6.8dB was added to the average result as the duty cycle compensation (45.6%).

Operating mode: Tx Hopping DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	44.8	31.3	4.8	49.6	42.9	73.9	53.9	24.3	11.0	Hori.
2	2390.000	45.0	31.3	4.8	49.8	42.9	73.9	53.9	24.1	11.0	Vert.
3	2483.500	45.8	31.6	5.4	51.2	43.8	73.9	53.9	22.7	10.1	Hori.
4	2483.500	45.3	31.5	5.4	50.7	43.7	73.9	53.9	23.2	10.2	Vert.

Operating mode: Tx Hopping DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.4	31.3	4.8	50.2	42.9	73.9	53.9	23.7	11.0	Hori.
2	2390.000	45.2	31.3	4.8	50.0	42.9	73.9	53.9	23.9	11.0	Vert.
3	2483.500	46.3	31.7	5.4	51.7	43.9	73.9	53.9	22.2	10.0	Hori.
4	2483.500	45.9	31.5	5.4	51.3	43.7	73.9	53.9	22.6	10.2	Vert.

Operating mode: Tx Hopping DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.2	31.3	4.8	50.0	42.9	73.9	53.9	23.9	11.0	Hori.
2	2390.000	45.4	31.3	4.8	50.2	42.9	73.9	53.9	23.7	11.0	Vert.
3	2483.500	45.7	31.6	5.4	51.1	43.8	73.9	53.9	22.8	10.1	Hori.
4	2483.500	46.5	31.6	5.4	51.9	43.8	73.9	53.9	22.0	10.1	Vert.

Operating mode: Tx 2402MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.3	31.6	4.8	50.1	38.8	73.9	53.9	23.8	15.1	Hori.
2	2390.000	44.9	31.3	4.8	49.7	38.5	73.9	53.9	24.2	15.4	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2402MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.2	31.6	4.8	50.0	38.8	73.9	53.9	23.9	15.1	Hori.
2	2390.000	45.0	31.4	4.8	49.8	38.6	73.9	53.9	24.1	15.3	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2402MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.1	31.4	4.8	49.9	38.6	73.9	53.9	24.0	15.3	Hori.
2	2390.000	45.4	31.5	4.8	50.2	38.7	73.9	53.9	23.7	15.2	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2480MHz 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	51.7	33.1	5.4	57.1	40.9	73.9	53.9	16.8	13.0	Hori.
2	2483.500	45.4	31.8	5.4	50.8	39.6	73.9	53.9	23.1	14.3	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2480MHz 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	53.5	33.2	5.4	58.9	41.0	73.9	53.9	15.0	12.9	Hori.
2	2483.500	46.4	31.9	5.4	51.8	39.7	73.9	53.9	22.1	14.2	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2480MHz 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	46.5	32.3	5.4	51.9	40.1	73.9	53.9	22.0	13.8	Hori.
2	2483.500	51.8	32.7	5.4	57.2	40.5	73.9	53.9	16.7	13.4	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx Hopping 2DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.0	31.3	4.8	49.8	38.5	73.9	53.9	24.1	15.4	Hori.
2	2390.000	45.0	31.3	4.8	49.8	38.5	73.9	53.9	24.1	15.4	Vert.
3	2483.500	45.7	31.7	5.4	51.1	39.5	73.9	53.9	22.8	14.4	Hori.
4	2483.500	44.9	31.5	5.4	50.3	39.3	73.9	53.9	23.6	14.6	Vert.

Operating mode: Tx Hopping 2DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.1	31.3	4.8	49.9	38.5	73.9	53.9	24.0	15.4	Hori.
2	2390.000	44.7	31.3	4.8	49.5	38.5	73.9	53.9	24.4	15.4	Vert.
3	2483.500	46.2	31.7	5.4	51.6	39.5	73.9	53.9	22.3	14.4	Hori.
4	2483.500	45.2	31.5	5.4	50.6	39.3	73.9	53.9	23.3	14.6	Vert.

Operating mode: Tx Hopping 2DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.4	31.3	4.8	50.2	38.5	73.9	53.9	23.7	15.4	Hori.
2	2390.000	45.5	31.3	4.8	50.3	38.5	73.9	53.9	23.6	15.4	Vert.
3	2483.500	45.5	31.6	5.4	50.9	39.4	73.9	53.9	23.0	14.5	Hori.
4	2483.500	45.9	31.6	5.4	51.3	39.4	73.9	53.9	22.6	14.5	Vert.

Operating mode: Tx 2402MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.4	31.7	4.8	50.2	38.9	73.9	53.9	23.7	15.0	Hori.
2	2390.000	45.3	31.3	4.8	50.1	38.5	73.9	53.9	23.8	15.4	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2402MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.3	31.6	4.8	50.1	38.8	73.9	53.9	23.8	15.1	Hori.
2	2390.000	45.5	31.4	4.8	50.3	38.6	73.9	53.9	23.6	15.3	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2402MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.3	31.4	4.8	50.1	38.6	73.9	53.9	23.8	15.3	Hori.
2	2390.000	45.2	31.5	4.8	50.0	38.7	73.9	53.9	23.9	15.2	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2480MHz 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	52.9	33.1	5.4	58.3	40.9	73.9	53.9	15.6	13.0	Hori.
2	2483.500	45.1	31.8	5.4	50.5	39.6	73.9	53.9	23.4	14.3	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2480MHz 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	54.5	33.1	5.4	59.9	40.9	73.9	53.9	14.0	13.0	Hori.
2	2483.500	47.7	31.9	5.4	53.1	39.7	73.9	53.9	20.8	14.2	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx 2480MHz 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	50.0	32.2	5.4	55.4	40.0	73.9	53.9	18.5	13.9	Hori.
2	2483.500	52.3	32.7	5.4	57.7	40.5	73.9	53.9	16.2	13.4	Vert.

Note: 2.4dB was added to the average result as the duty cycle compensation (76.1%).

Operating mode: Tx Hopping 3DH5 X-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.2	31.3	4.8	50.0	38.5	73.9	53.9	23.9	15.4	Hori.
2	2390.000	45.0	31.3	4.8	49.8	38.5	73.9	53.9	24.1	15.4	Vert.
3	2483.500	45.7	31.7	5.4	51.1	39.5	73.9	53.9	22.8	14.4	Hori.
4	2483.500	45.6	31.5	5.4	51.0	39.3	73.9	53.9	22.9	14.6	Vert.

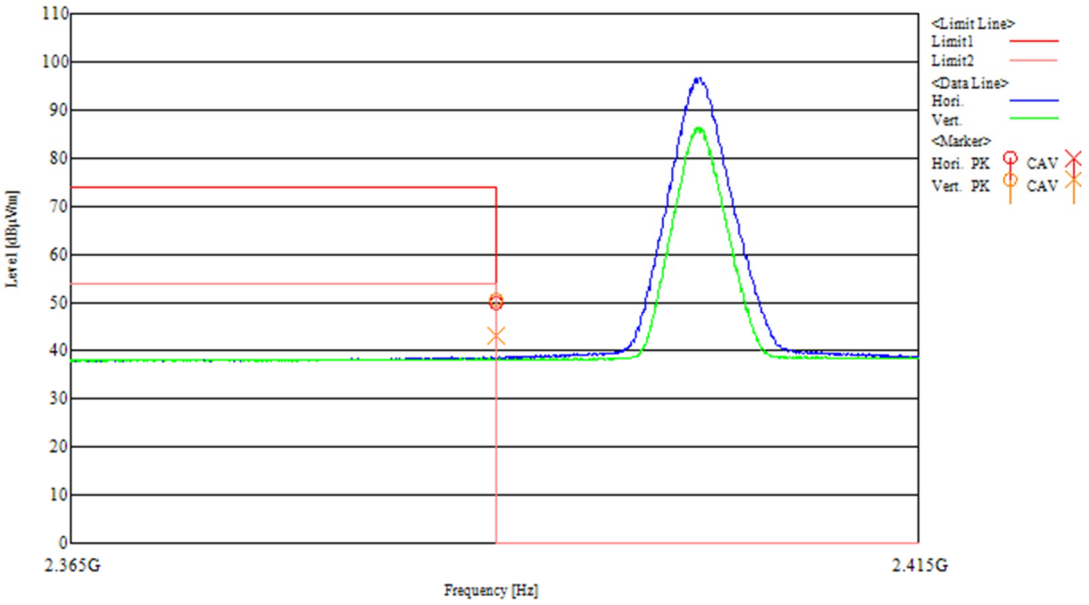
Operating mode: Tx Hopping 3DH5 Y-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.6	31.4	4.8	50.4	38.6	73.9	53.9	23.5	15.3	Hori.
2	2390.000	45.3	31.3	4.8	50.1	38.5	73.9	53.9	23.8	15.4	Vert.
3	2483.500	47.2	31.7	5.4	52.6	39.5	73.9	53.9	21.3	14.4	Hori.
4	2483.500	45.4	31.5	5.4	50.8	39.3	73.9	53.9	23.1	14.6	Vert.

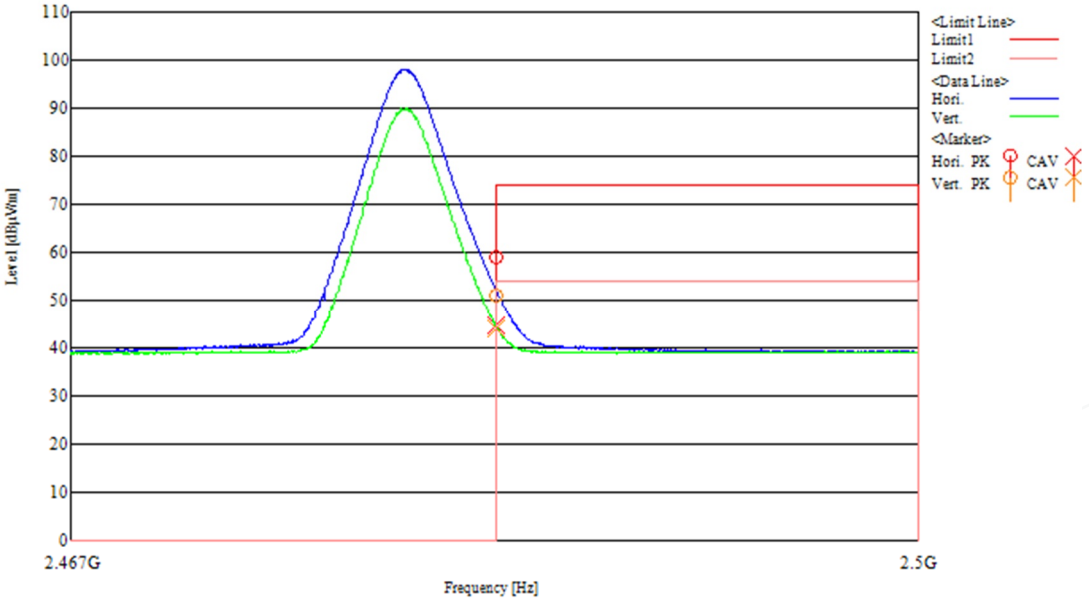
Operating mode: Tx Hopping 3DH5 Z-plane
[Emission level]

No.	Frequency [MHz]	Reading PK [dBµV]	Reading Ave [dBµV]	C.Factor [dB]	Result PK [dBµV/m]	Result Ave [dBµV/m]	Limit PK [dBµV/m]	Limit Ave [dBµV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.9	31.3	4.8	50.7	38.5	73.9	53.9	23.2	15.4	Hori.
2	2390.000	45.6	31.3	4.8	50.4	38.5	73.9	53.9	23.5	15.4	Vert.
3	2483.500	45.8	31.6	5.4	51.2	39.4	73.9	53.9	22.7	14.5	Hori.
4	2483.500	46.0	31.6	5.4	51.4	39.4	73.9	53.9	22.5	14.5	Vert.

[Chart] Tx 2402MHz DH5 X-plane



[Chart] Tx 2480MHz DH5 Y-plane



Tested Date:	21 Nov. 2024	Temperature:	18 degC
Humidity:	50 %	Atmos. Press:	1015 hPa

2.8 AC power line conducted emissions

Test setup

Test setup was implemented according to the method of ANSI C63.10 clause 6.2 .

Test procedure

Measurement procedures were implemented according to the method of ANSI C63.10 clause 6.2.

Applicable rule and limitation

FCC 15.207

AC power line conducted emissions limits

Frequency of Emission [MHz]	Conducted emissions Limit [dBµV]	
	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 lower limit applies at the band edges.

Test equipment used (refer to List of utilized test equipment)

-	-	-

Test software used

EMI Ver. 6.1

Calculation method

The Correction Factor and Result are calculated as followings.

Correction Factor [dB] = ISN Factor [dB] + Loss [dB]
Result [dBµV] = Reading [dBµV] + Correction Factor [dB]

Test results – *Not Applicable*

EUT operates on battery power only.

2.9 Antenna requirement

Applicable rule and limitation

FCC 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

Results – *Complied with requirement*

EUT uses no other antenna than the following antenna, which is permanently attached to the EUT.
The EUT therefore meets the requirement of this section.

No.	Antenna type	Antenna gain	Impedance
1	Multilayer	1.6 dBi [max]	50 Ω

4 List of utilized test equipment / calibration

ID No.	Kind of Equipment	Manufacturer	Model No.	Serial Number	Cal. Date	Cal. until
AC01(EM)	Anechoic Chamber (1st test room)	JSE	203397C	-	2024/03/29	2025/03/31
AC01(EG)	Anechoic Chamber (1st test room)	JSE	203397C	-	2024/03/22	2025/03/31
BA07	Bilogical Antenna	TESEQ	CBL6143A	26670	2024/03/11	2025/03/31
CL11	RF Cable for RE	RFT	-	-	2024/03/05	2025/03/31
CL72	RF Cable for CE	RFT	-	-	2024/01/17	2025/01/31
CL31	RF Cable 1 m	Junkosha	MWX221	1303S118	2024/01/18	2025/01/31
CL38	RF Cable 2 m	Junkosha	MWX221	1603S626	2024/01/18	2025/01/31
CL39	RF Cable 5 m	SUHNER	SUCOFLEX126E	523222	2024/01/18	2025/01/31
DH06	DRG Horn Antenna	A.H. Systems	SAS-571	1339	2024/07/30	2026/07/31
SH01	Standard Horn Antenna (18-26G)	A.H. Systems	SAS-572	208	2024/07/16	2025/07/31
SH05	Standard Horn Antenna (12-18G)	A.H. Systems	SAS-586	214	2024/07/16	2025/07/31
PR12	Pre. Amplifier (1-26G)	Agilent Technologies	8449B	3008A02513	2024/01/17	2025/01/31
PR21	Pre. Amplifier	Anritsu	MH648A	6200467119	2024/03/12	2025/03/31
BRF12	Band Reject Filter (2400MHz)	M-City	BRF2440-01	RF0012-02	2024/03/19	2025/03/31
HPF11	High Pass Filter (3500MHz)	Wainwright	WHNX6-2765-3500-26500-40CC	2	2024/08/17	2025/08/31
LPF1	Low Pass Filter (1000MHz)	M-City	LPF1000-04	RF0012-01	2024/03/19	2025/03/31
LP05	Loop Antenna	ETS-Lindgren	6502	00143302	2024/03/08	2025/03/31
AT17	Attenuator	JFW	50HF-006N	—	2024/03/05	2025/03/31
AT33	Attenuator 10dB 26GHz	INMET	26A-10	–	2024/10/18	2025/10/31
TR06	Test Receiver (F/W : 4.73 SP4)	Rohde & Schwarz	ESU26	100002	2023/12/15	2024/12/31

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.