



Prüfbericht-Nr.: <i>Test report no.:</i>	CN25PJ5X 001	Auftrags-Nr.: <i>Order no.:</i>	48275486	Seite 1 von 36 Page 1 of 36
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-04-14	
Auftraggeber: <i>Client:</i>	Nedap N.V. Parallelweg 2, 7141 DC Groenlo, The Netherlands			
Prüfgegenstand: <i>Test item:</i>	iD Gate Pro Region 2			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	ASSY RA38S RFID			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-05-27			
Prüfmuster-Nr.: <i>Test sample no:</i>	A004006211-001 A004006211-002			
Prüfzeitraum: <i>Testing period:</i>	2025-06-03 - 2025-06-04			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	Ausstellungsdatum: <i>Issue date:</i>			
Stellung / Position:	Stellung / Position:			
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(2)	Peak Output Power	Pass
5.1.3	15.247(a)(1)	20 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(d)	Conducted Spurious Emission and Band Edges	Pass
5.1.5	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.1.6	15.247(a)(1)	Hopping Channel Separation	Pass
5.1.7	15.247(a)(1) (i)	Number of Hopping Frequency Used	Pass
5.1.8	15.247(a)(1)(i)	Dwell Time on Each Channel	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2025-06-13

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

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

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a iD Gate Pro Region 2 working at 902-928 MHz with RFID function.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	iD Gate Pro Region 2
Type Identification	ASSY RA38S RFID
FCC ID	CGDRA38SRFID

Technical Specification of EUT

Item	EUT information
Operating Frequency	902 – 928 MHz
Channel Number	50
Operation Voltage	115 Vac
Modulation	ASK
Maximum Output Power (mW)	901.57
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3

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3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

Mode	Channel Frequency (MHz)		
	902.75	914.75	927.25
ASK	Default	Default	Default

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	902.75	14	909.25	27	915.75	40	922.25
2	903.25	15	909.75	28	916.25	41	922.75
3	903.75	16	910.25	29	916.75	42	923.25
4	904.25	17	910.75	30	917.25	43	923.75
5	904.75	18	911.25	31	917.75	44	924.25
6	905.25	19	911.75	32	918.25	45	924.75
7	905.75	20	912.25	33	918.75	46	925.25
8	906.25	21	912.75	34	919.25	47	925.75
9	906.75	22	913.25	35	919.75	48	926.25
10	907.25	23	913.75	36	920.25	49	926.75
11	907.75	24	914.25	37	920.75	50	927.25
12	908.25	25	914.75	38	921.25		
13	908.75	26	915.25	39	921.75		

4.3 Test Operation and Test Software

Setup for testing: Power on the EUT and the EUT will start Power transmission using the fundamental frequency in the range of 902 MHz to 928 MHz.

The samples were used as follows:

A004006211-001

A004006211-002

Full test was applied on all test modes, but only worst case was shown.

The EUT provides one transmitter and receiver with diversity function.

The EUT has two RF ports, Port A and Port B, which do not transmit simultaneously. Since Port A has higher output power, only the worst-case port (Port A) was evaluated in this test report.

The EUT is equipped with three antennas (Antenna 1, Antenna 2, and Antenna 3), which do not operate simultaneously.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Y-plane**.
2. "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	902 to 928	902.75, 914.75, 927.25

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	902 to 928	902.75, 914.75, 927.25

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	902 to 928	902.75, 914.75, 927.25

Mains Conducted Emission Test

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	902 to 928	914.75

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Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	24-24.8 °C	70-71 %	Andy Chen
Radiated Spurious Emissions above 1 GHz	23-24.4 °C	52-55 %	Ivan Chiang
Radiated Spurious Emissions below 1 GHz	23-24.4 °C	52-55 %	Ivan Chiang
Mains Conducted Emission	22 °C	52 %	Chuan Chu

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

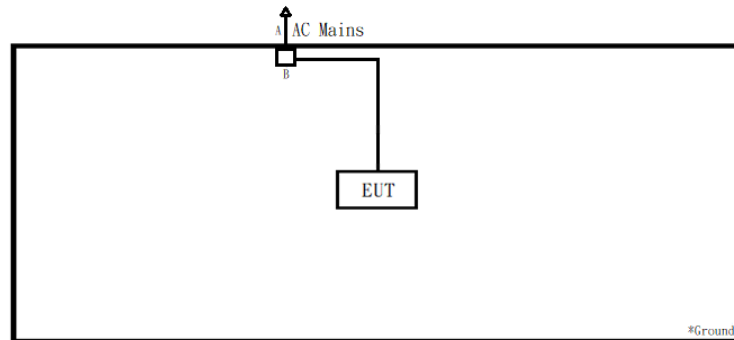
No.	Product	Brand	Model	Description
B	Adapter	PROCET	PT-PSE109GBTRO-A	--

Support Unit

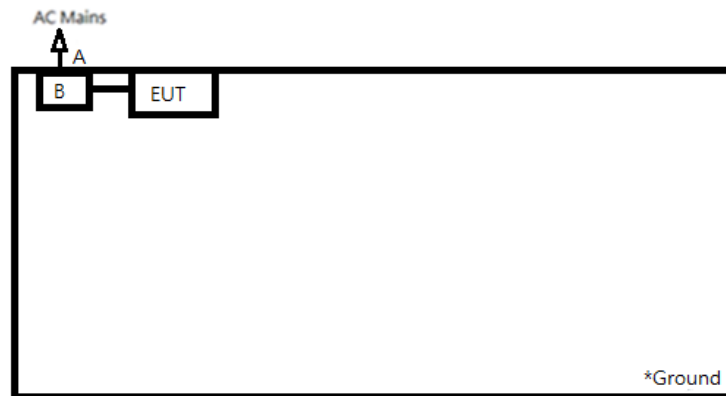
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Power Cable	Dongguan Ubill Electrical Co. Ltd.	SAA-151497-EA	N/A	NO	NO	177	--
-	Notebook	HP	HP 15-da1046TX	CND9111RJ2	-	-	-	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only.

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 5 dBi. The antenna is circular patch antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo for details.

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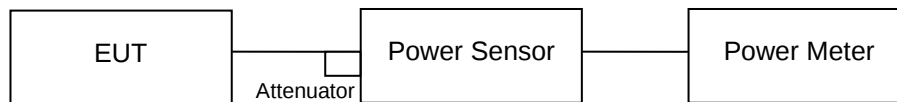
5.1.2 Peak Output Power

Limit

1 watt for systems employing at least 50 hopping channels; and 0.25 watts for systems employing less than 50 hopping channels.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2025/02/26	2026/02/25	2025/6/4	2025/6/4
Power Sensor	Anritsu	MA2411B	1725269	2025/02/26	2026/02/25	2025/6/4	2025/6/4

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result

Peak Output Power

<Port A>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(dBm)
Low Channel	902.75	29.41	872.97	30.00
Middle Channel	914.75	29.48	887.16	30.00
High Channel	927.25	29.42	874.98	30.00

<Port B>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(dBm)
Low Channel	902.75	29.43	877.00	30.00
Middle Channel	914.75	29.55	901.57	30.00
High Channel	927.25	29.46	883.08	30.00

Average Power

<Port A>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	902.75	29.37	864.97
Middle Channel	914.75	29.45	881.05
High Channel	927.25	29.38	866.96

<Port B>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	902.75	29.39	868.96
Middle Channel	914.75	29.51	893.31
High Channel	927.25	29.42	874.98

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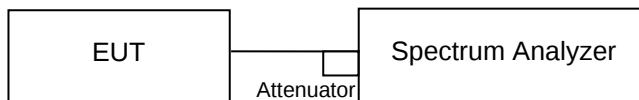
5.1.3 20 dB Bandwidth and 99% Occupied Bandwidth

Limit

The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/6/4	2025/6/4

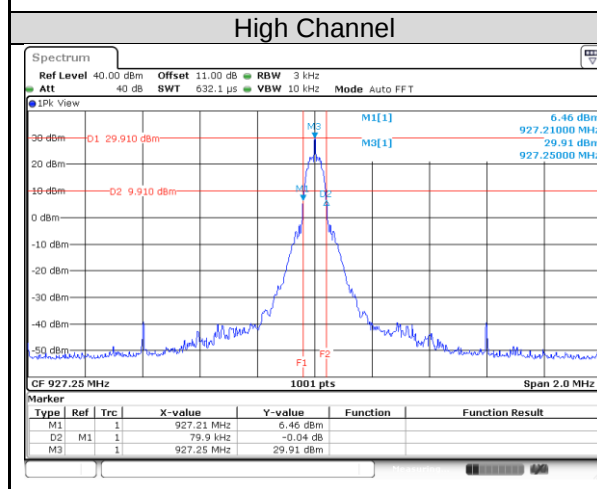
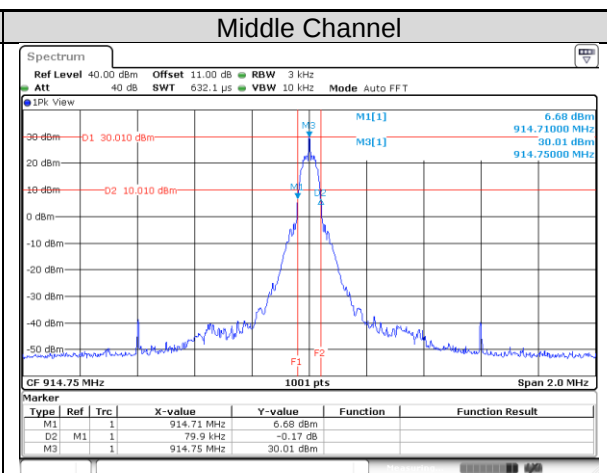
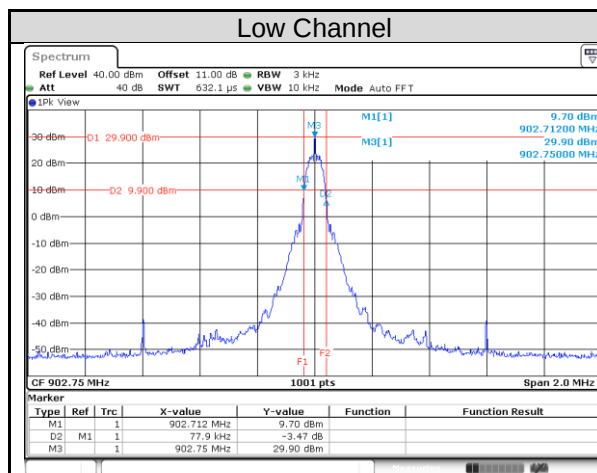
Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.
- The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Results

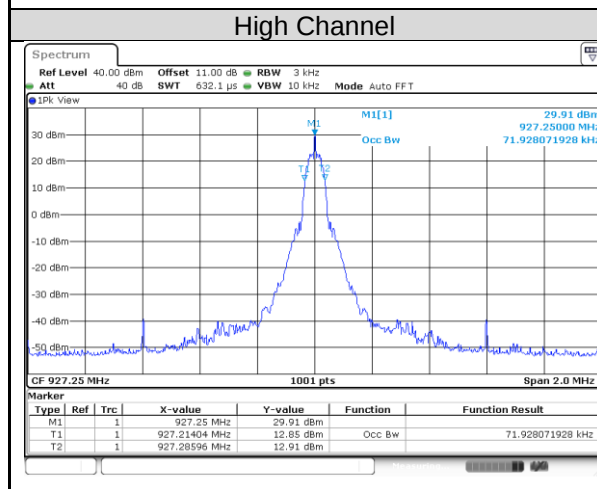
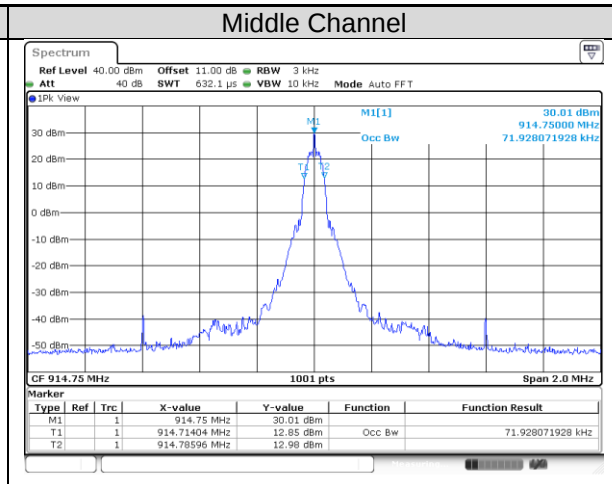
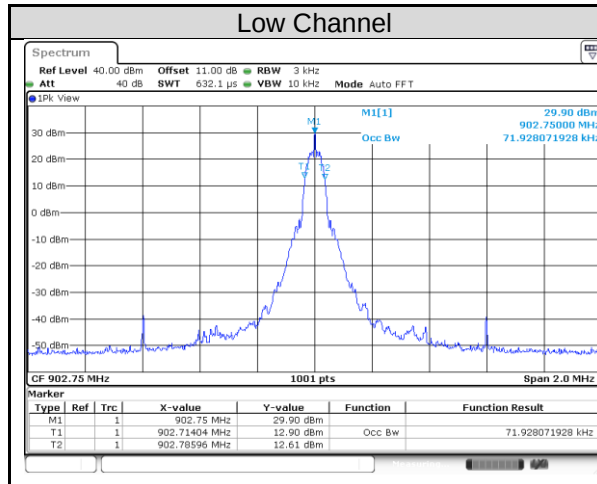
<20 dB Bandwidth>

Channel	Channel Frequency (MHz)	20 dB Bandwidth (MHz)	Result
Low Channel	902.75	0.08	Pass
Middle Channel	914.75	0.08	Pass
High Channel	927.25	0.08	Pass



<99% Occupied Bandwidth>

Channel	Channel Frequency (MHz)	99% Occupied Bandwidth (kHz)
Low Channel	902.75	71.93
Middle Channel	914.75	71.93
High Channel	927.25	71.93



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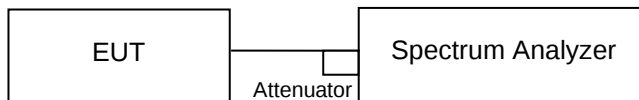
5.1.4 Conducted Spurious Emissions and Frequency Band Edges Measured in 100 kHz Bandwidth

Limit

20 dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site Shielded room

Test Setup



Test Instruments

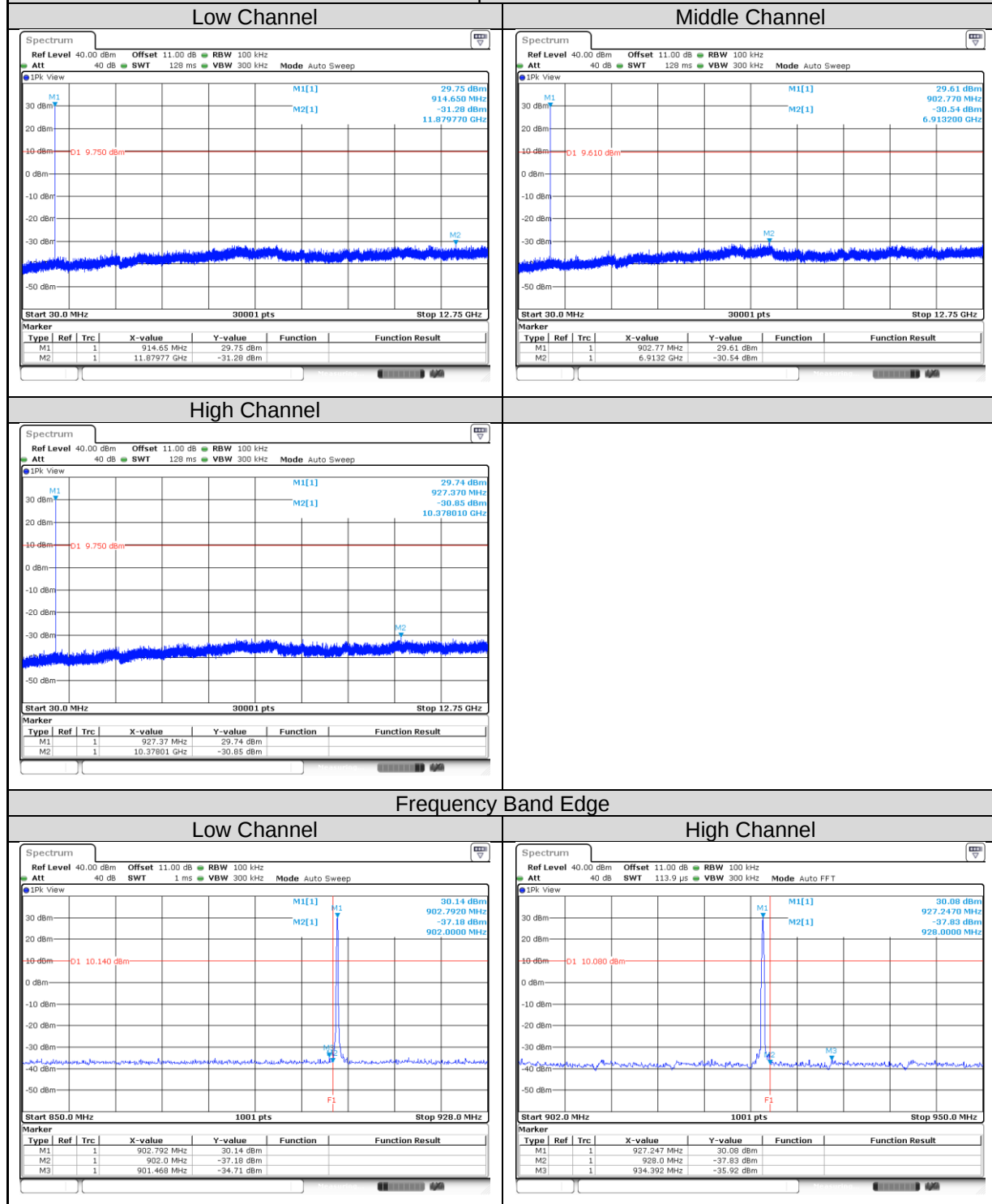
Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/6/4	2025/6/4

Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

Test Results

Conducted Spurious Emissions



5.1.5 Radiated Spurious Emissions and Band Edges

Limit

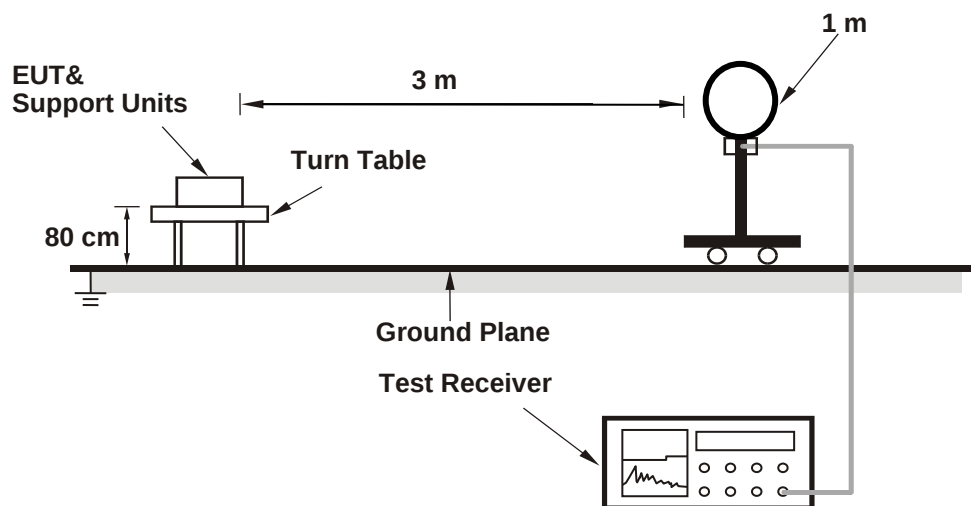
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

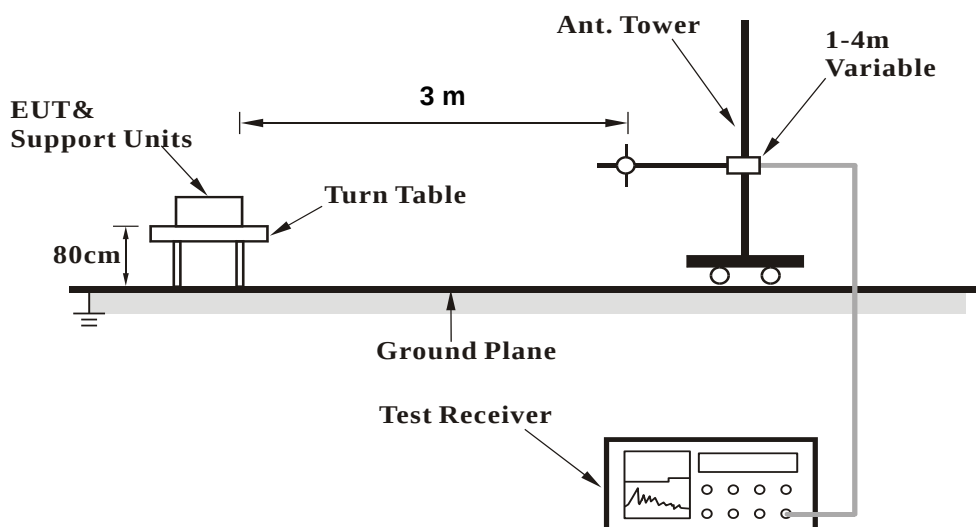
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

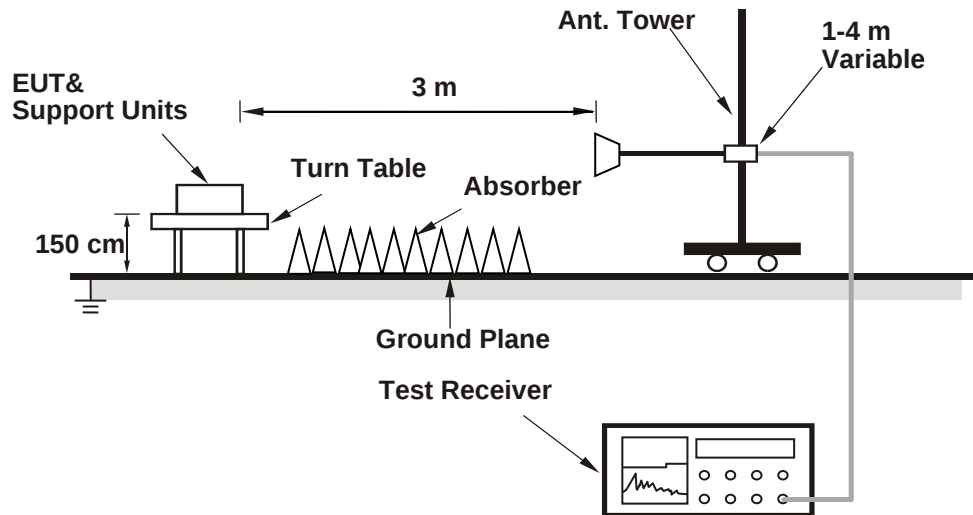
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101508	2025/4/29	2026/4/28
Horn Antenna	ETS-Lindgren	3117	00218929	2024/11/21	2025/11/20
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2025/4/30	2026/4/29
HF-AMP + AC source	EMCI	EMC051845SE	980633	2025/1/15	2026/1/14
HF-AMP + AC source	EMCI	EMC184045SE	980656	2025/1/15	2026/1/14
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Above 1 GHz					
Receiver	R&S	ESR7	102109	2025/2/13	2026/2/12
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2025/4/8	2026/4/7
LF-AMP	Agilent	8447D	2727A05146	2025/1/15	2026/1/14
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Above 1 GHz					
Receiver	R&S	ESR7	102109	2025/2/13	2026/2/12
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2024/12/11	2025/12/10
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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7. All supported operating modes were evaluated, and the data presented in this report reflects the worst-case emissions observed during testing.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

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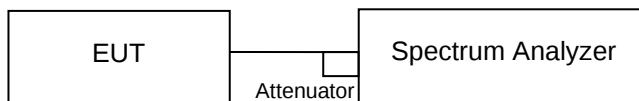
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5.1.6 Hopping Channel Separation

Limit ≥ 25 kHz or 20 dB bandwidth, whichever is greater

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/6/4	2025/6/4

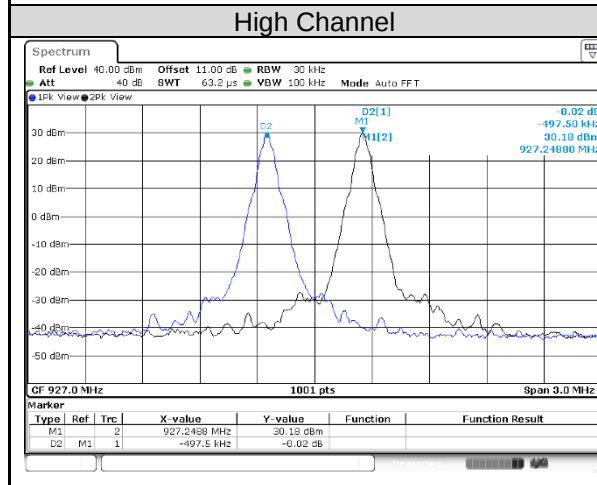
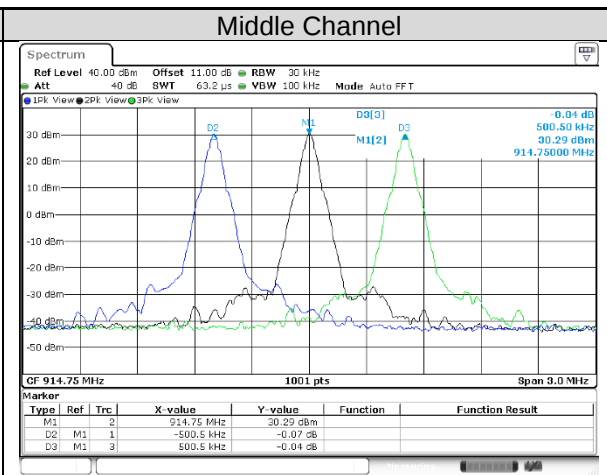
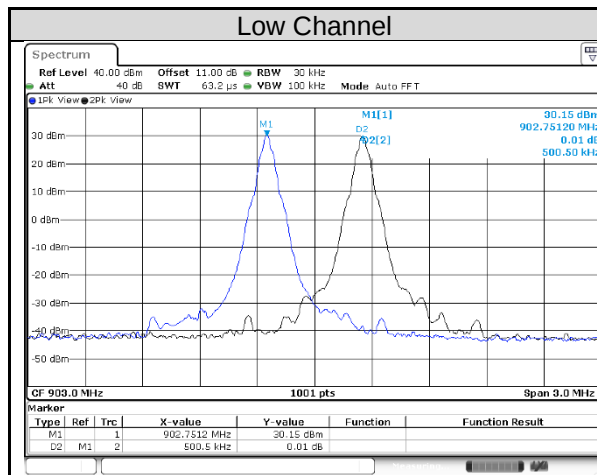
Test Procedure

Measurement Procedure REF

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

Test Results

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	Minimum Limit (MHz)	Result
Low	902.75	0.50	≥ 25 kHz or 20 dB bandwidth	Pass
Middle	914.75	0.50		Pass
High	927.25	0.50		Pass



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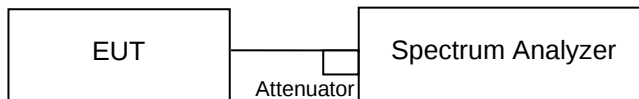
5.1.7 Number of Hopping Frequency

Limit

If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/6/4	2025/6/4

Test Procedure

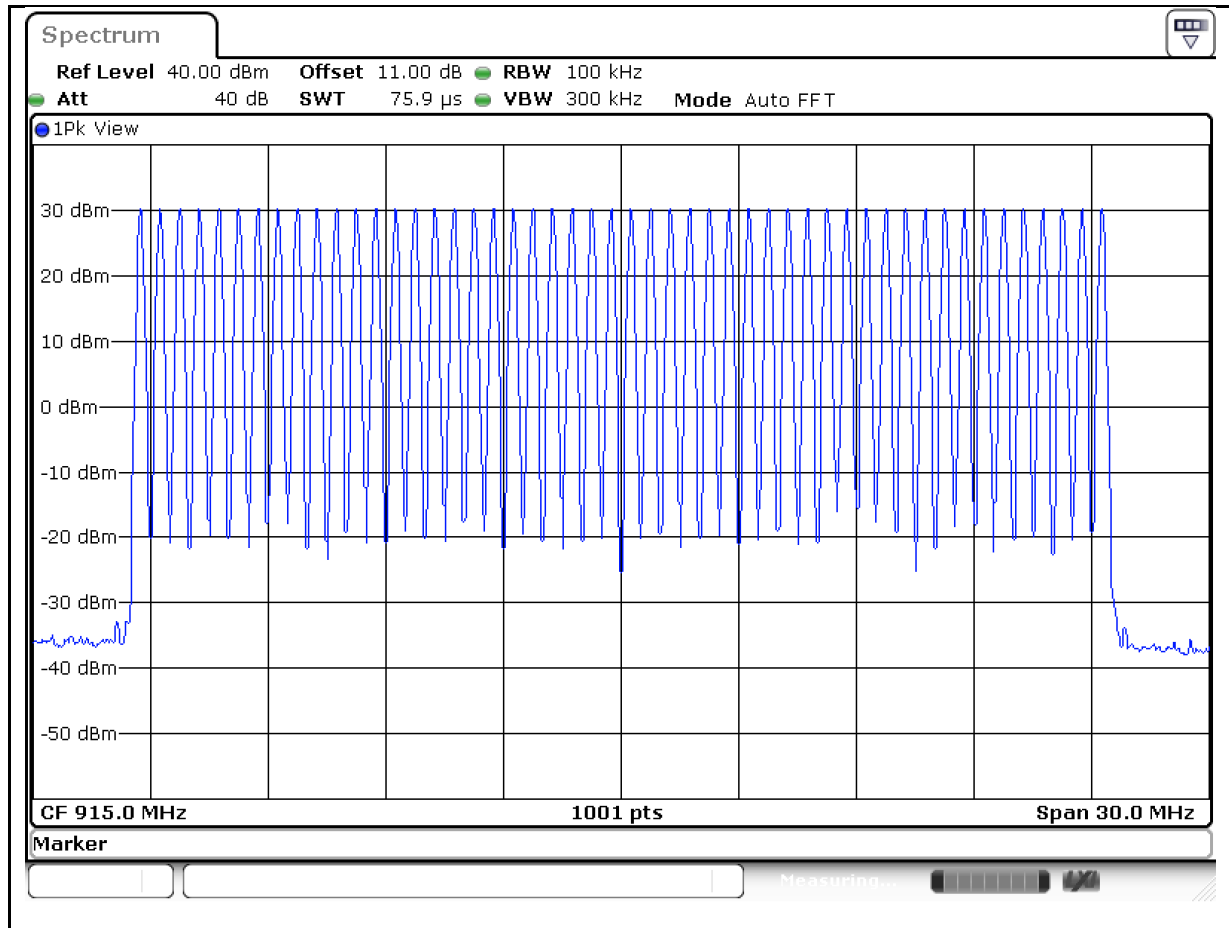
- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

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Test Results

Frequency Range	Measured Quantity of Hopping Channel	Result
902 to 928 MHz	50	Pass



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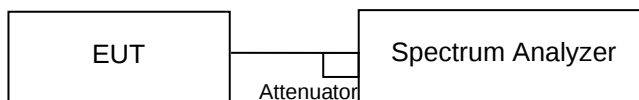
5.1.8 Dwell Time

Limit

If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period.

Kind of Test Site Shielded room

Test Setup



Test Instruments

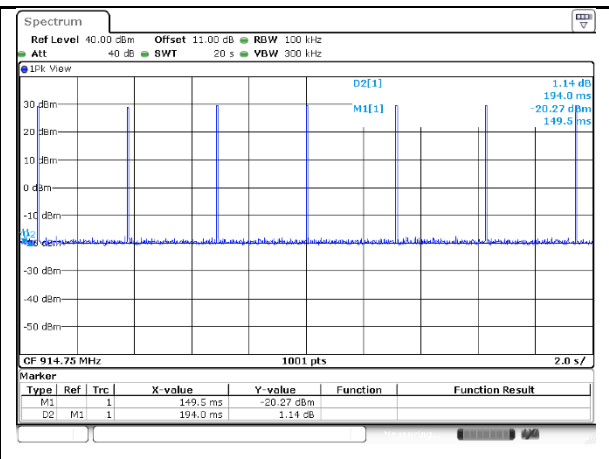
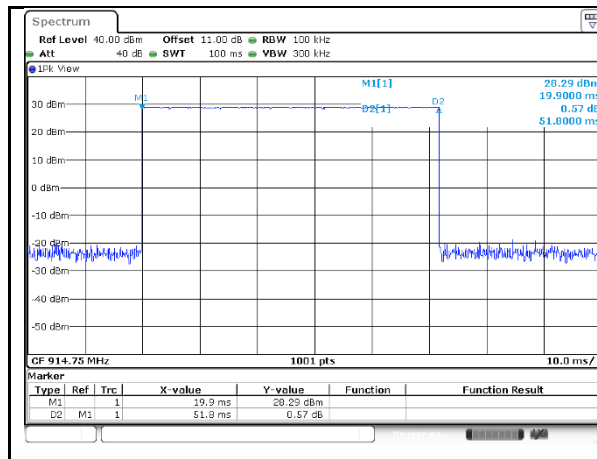
Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2025/02/26	2026/02/25	2025/6/4	2025/6/4

Test Procedures

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

Test Results

Number of transfer in a 20 (50Hopping*0.4s)	Package transfer time (msec)	Dwell time (ms)	Limit (ms)	Result
7 (times / 20 sec) * 1 = 7 times	51.80	362.60	400	Pass



5.2 Mains Emission

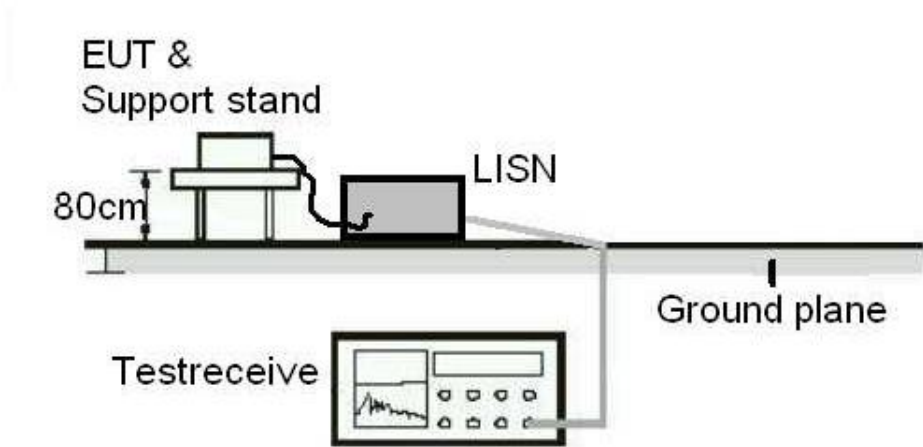
5.2.1 Mains Conducted Emission

Limit

Mains Conducted emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2024/10/22	2025/10/21
EMI Test Receiver	R&S	ESCI	101094	2024/11/25	2025/11/24

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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

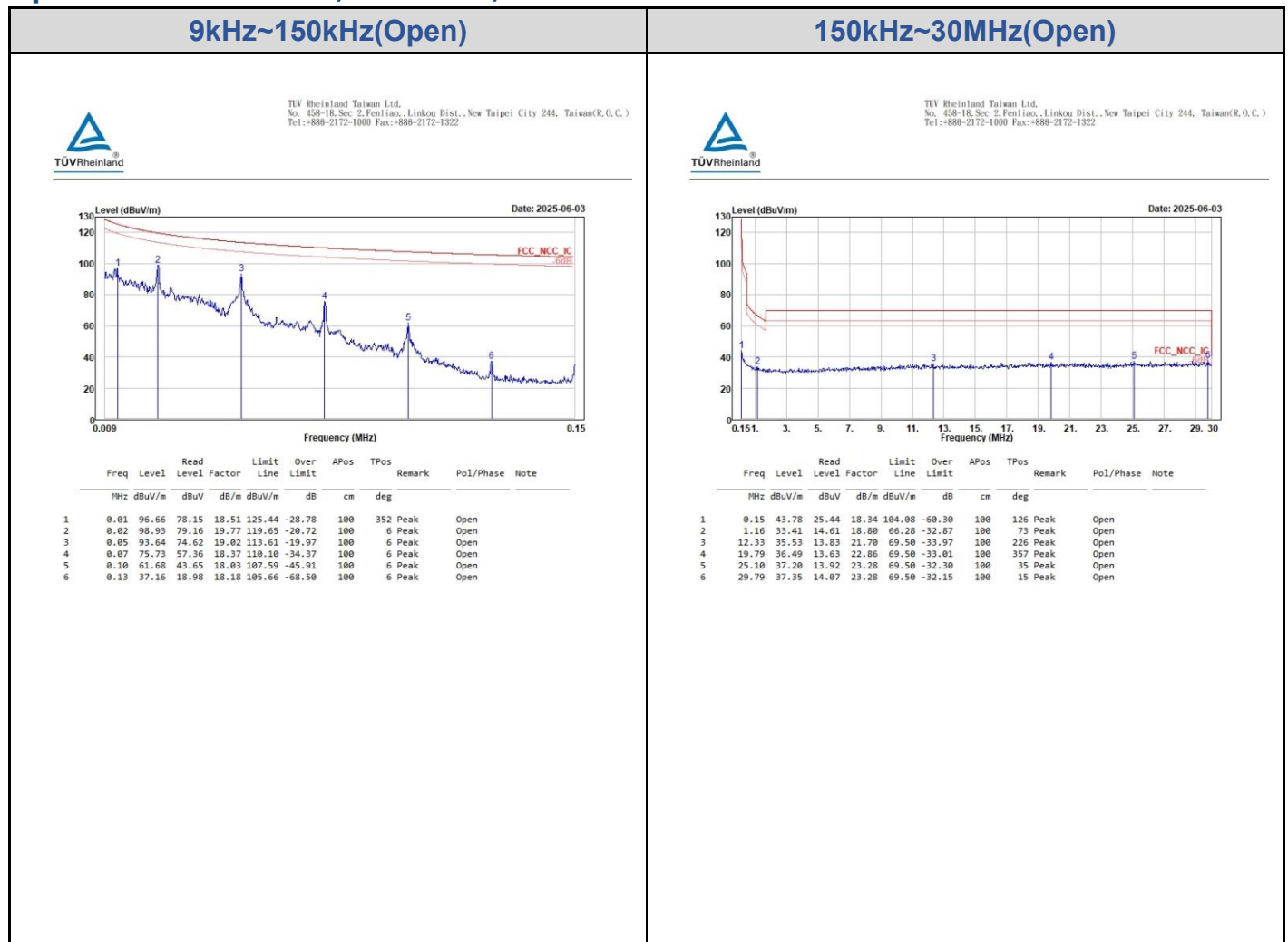
Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

<902.75 MHz>

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

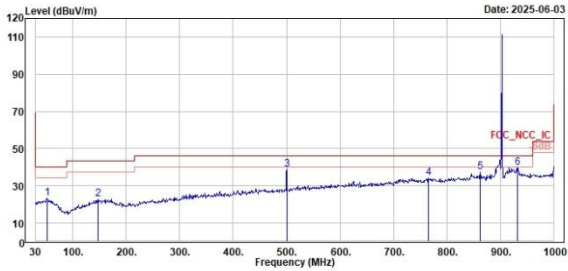


Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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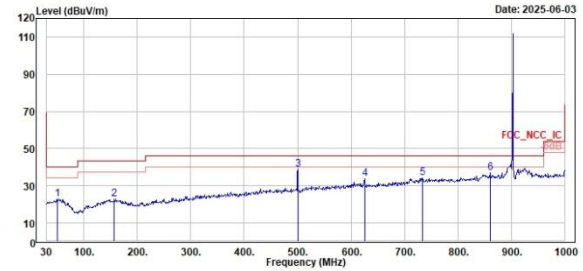


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	51.34	23.21	28.85	-5.64	40.00	-16.79	200	283	Peak	Horizontal		
2	146.40	22.79	28.85	-6.06	43.50	-20.71	122	360	Peak	Horizontal		
3	500.45	38.58	39.48	-0.90	46.00	-7.42	100	32	Peak	Horizontal		
4	765.26	34.09	29.56	4.53	46.00	-11.91	300	19	Peak	Horizontal		
5	862.26	37.46	31.94	5.52	46.00	-8.54	131	360	Peak	Horizontal		
6	932.10	39.92	33.51	6.41	46.00	-6.00	100	115	Peak	Horizontal		

Vertical



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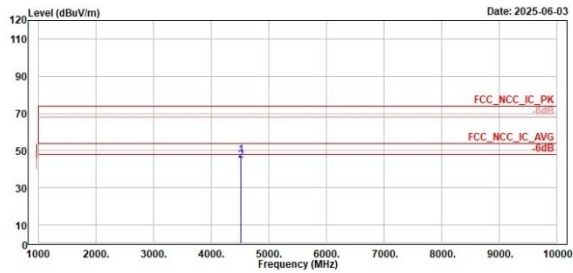
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	50.37	22.95	28.63	-5.68	40.00	-17.05	100	195	Peak	Vertical		
2	157.07	22.69	28.39	-5.70	43.50	-20.81	100	104	Peak	Vertical		
3	500.45	38.83	39.73	-0.90	46.00	-7.17	100	23	Peak	Vertical		
4	625.58	33.76	31.90	1.86	46.00	-12.24	123	360	Peak	Vertical		
5	733.25	34.36	30.65	3.71	46.00	-11.64	100	61	Peak	Vertical		
6	860.32	36.81	31.30	5.51	46.00	-9.19	100	19	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 10GHz

Horizontal



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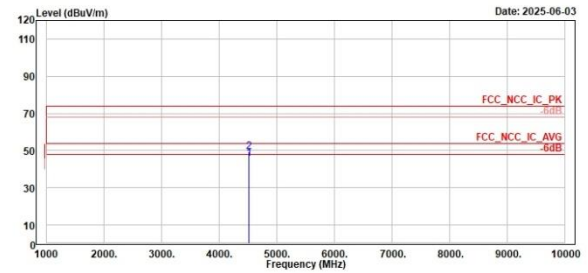


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4513.75	47.30	58.54	-11.24	54.00	-6.70	100	187	Average	Horizontal		
2	4513.75	44.54	55.78	-11.24	74.00	-29.46	100	187	Peak	Horizontal		

Vertical



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4513.75	45.80	57.04	-11.24	54.00	-8.20	100	54	Average	Vertical		
2	4513.75	49.49	60.73	-11.24	74.00	-24.51	100	54	Peak	Vertical		

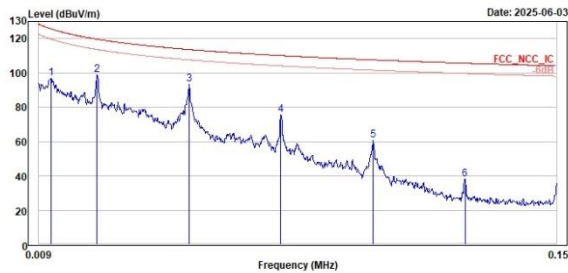
<914.75 MHz>

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

9kHz~150kHz(Open)



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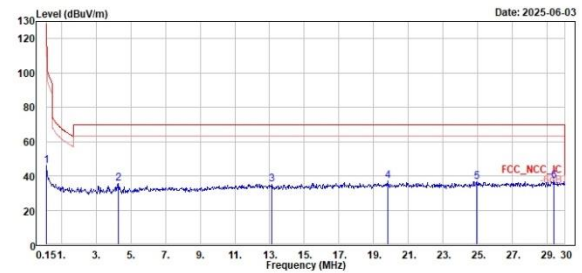


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	96.92	78.47	18.45	125.73	-28.81	100	342	Peak	Open		
2	0.02	98.72	78.95	19.77	119.65	-20.93	100	102	Peak	Open		
3	0.05	93.30	74.28	19.02	113.63	-20.33	100	233	Peak	Open		
4	0.07	75.69	57.32	18.37	110.10	-34.41	100	173	Peak	Open		
5	0.10	60.84	42.81	18.03	107.00	-46.76	100	332	Peak	Open		
6	0.13	30.24	20.06	10.18	105.66	-67.42	100	77	Peak	Open		

150kHz~30MHz(Open)



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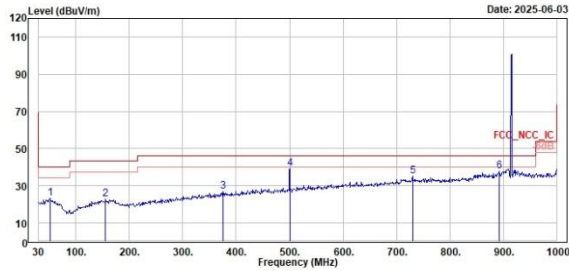
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.15	45.92	27.58	18.34	104.00	-58.16	100	7	Peak	Open		
2	4.30	35.40	15.92	19.48	69.50	-34.10	100	177	Peak	Open		
3	13.10	35.13	13.55	21.58	69.50	-34.37	100	12	Peak	Open		
4	19.79	37.26	14.40	22.86	69.50	-32.24	100	222	Peak	Open		
5	24.96	36.74	13.45	23.29	69.50	-32.76	100	278	Peak	Open		
6	29.37	36.98	13.71	23.27	69.50	-32.52	100	301	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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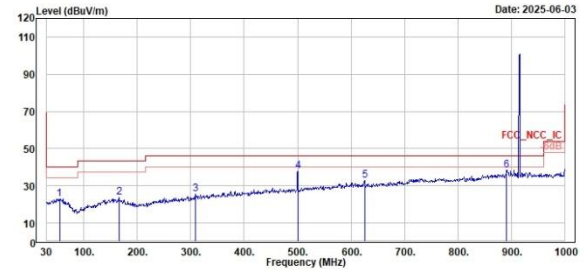


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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	51.34	23.23	28.67	-5.64	40.00	-16.77	200	18	Peak	Horizontal	
2	155.13	22.75	28.47	-5.72	43.50	-20.75	100	54	Peak	Horizontal	
3	375.32	26.98	29.90	-2.92	46.00	-19.02	300	30	Peak	Horizontal	
4	500.45	39.29	40.19	-0.90	46.00	-6.71	200	26	Peak	Horizontal	
5	730.34	35.23	31.53	3.70	46.00	-10.77	200	90	Peak	Horizontal	
6	893.30	37.83	31.08	5.95	46.00	-8.17	131	360	Peak	Horizontal	

Vertical



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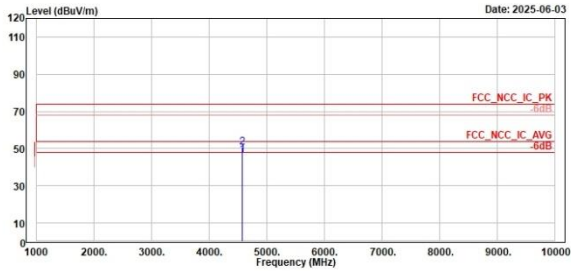
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	54.25	23.03	28.68	-5.65	40.00	-16.97	258	0	Peak	Vertical	
2	165.80	23.51	29.14	-5.63	43.50	-19.99	100	288	Peak	Vertical	
3	308.39	25.46	30.09	-4.63	46.00	-20.54	200	237	Peak	Vertical	
4	500.45	38.01	38.91	-0.90	46.00	-7.99	100	29	Peak	Vertical	
5	625.58	32.72	30.86	1.86	46.00	-13.28	100	342	Peak	Vertical	
6	891.36	38.46	32.40	5.98	46.00	-7.54	100	353	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 10GHz

Horizontal



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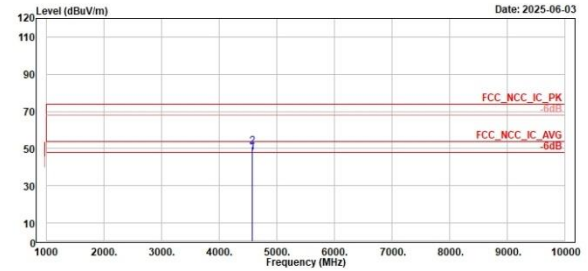


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4573.75	46.54	57.54	-11.00	54.00	-7.46	100	64	Average	Horizontal		
2	4573.75	50.63	61.63	-11.00	74.00	-23.37	100	64	Peak	Horizontal		

Vertical



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4573.75	47.79	58.79	-11.00	54.00	-6.21	153	55	Average	Vertical		
2	4573.75	51.18	62.18	-11.00	74.00	-22.82	153	55	Peak	Vertical		

Mains Conducted Emission, Tx Mode 150kHz ~ 30MHz

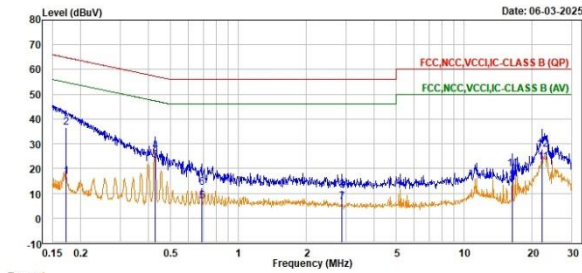
Worst Band

(Line)

(Neutral)



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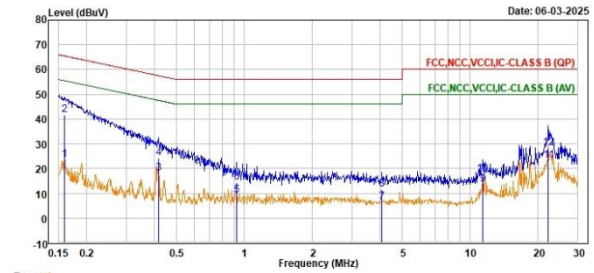


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.17	16.64	7.02	9.62	54.88	-38.24 Average	line1
2	0.17	36.39	26.77	9.62	64.88	-28.49 QP	line1
3	0.43	23.13	13.50	9.63	47.31	-24.18 Average	line1
4	0.43	26.93	17.30	9.63	57.31	-30.38 QP	line1
5	0.69	6.73	-2.90	9.63	46.00	-39.27 Average	line1
6	0.69	12.36	2.73	9.63	56.00	-43.64 QP	line1
7	2.88	6.32	-3.36	9.68	46.00	-39.68 Average	line1
8	2.88	11.29	1.61	9.68	56.00	-44.71 QP	line1
9	16.41	15.28	5.53	9.75	50.00	-34.72 Average	line1
10	16.41	19.62	9.87	9.75	60.00	-40.38 QP	line1
11	22.25	22.52	12.00	9.72	50.00	-27.48 Average	line1
12	22.25	27.72	18.00	9.72	60.00	-32.28 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.16	23.46	13.83	9.63	55.54	-32.08 Average	neutral
2	0.16	41.83	32.20	9.63	65.54	-23.71 QP	neutral
3	0.41	18.03	8.40	9.63	47.55	-29.52 Average	neutral
4	0.41	24.13	14.50	9.63	57.55	-33.42 QP	neutral
5	0.92	9.32	-0.32	9.64	46.00	-36.68 Average	neutral
6	0.92	14.46	4.82	9.64	56.00	-41.54 QP	neutral
7	4.07	6.59	-3.10	9.69	46.00	-39.41 Average	neutral
8	4.07	11.40	1.79	9.69	56.00	-44.52 QP	neutral
9	11.35	13.75	3.95	9.80	50.00	-36.25 Average	neutral
10	11.35	17.61	7.81	9.80	60.00	-42.39 QP	neutral
11	22.25	23.22	13.37	9.85	50.00	-26.78 Average	neutral
12	22.25	28.43	18.58	9.85	60.00	-31.57 QP	neutral

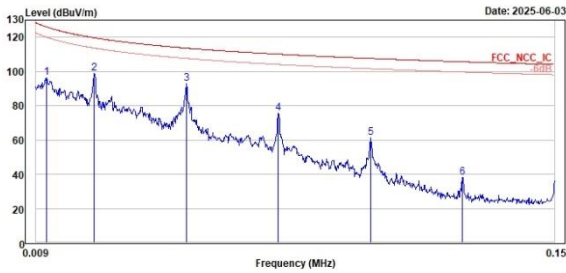
<927.25 MHz>

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

9kHz~150kHz(Open)



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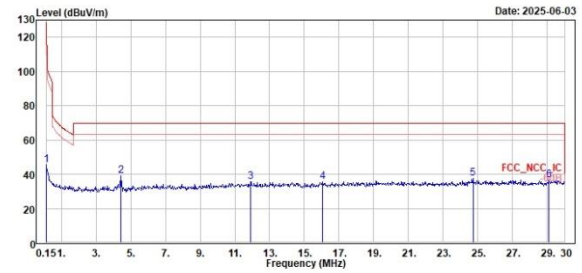


Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	96.32	77.93	18.39	126.03	-29.71	100	233	Peak	Open		
2	0.02	98.90	79.13	19.77	119.65	-20.75	100	74	Peak	Open		
3	0.05	92.91	73.89	19.02	113.61	-20.70	100	19	Peak	Open		
4	0.07	75.72	57.35	18.37	110.10	-34.38	100	17	Peak	Open		
5	0.10	61.28	43.25	18.03	107.59	-46.31	100	17	Peak	Open		
6	0.12	37.89	19.71	18.18	105.67	-67.78	100	313	Peak	Open		

150kHz~30MHz(Open)



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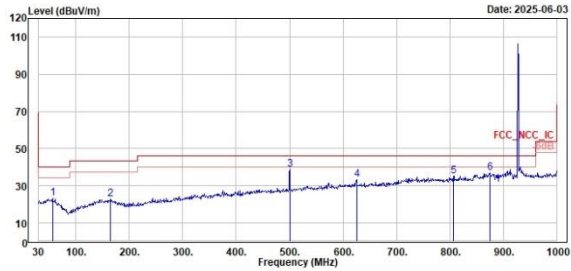
Peak	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.15	45.23	26.89	18.34	104.08	-58.85	100	1	Peak	Open		
2	4.42	39.27	19.77	19.50	69.50	-30.23	100	177	Peak	Open		
3	11.91	35.46	13.71	21.75	69.50	-34.04	100	144	Peak	Open		
4	16.03	35.80	13.87	21.93	69.50	-33.70	100	354	Peak	Open		
5	24.72	37.33	14.28	23.05	69.50	-32.17	100	310	Peak	Open		
6	29.10	36.54	13.27	23.27	69.50	-32.96	100	15	Peak	Open		

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

Horizontal



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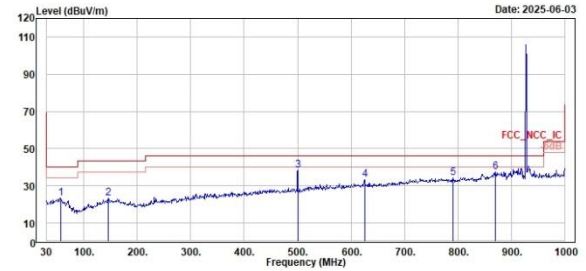


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	56.19	23.28	29.05	-5.77	40.00	-16.72	200	205	Peak	Horizontal		
2	164.83	22.75	28.44	-5.69	43.50	-20.75	400	358	Peak	Horizontal		
3	500.45	38.69	39.59	-0.90	46.00	-7.31	200	60	Peak	Horizontal		
4	625.58	33.32	31.46	1.86	46.00	-12.68	100	298	Peak	Horizontal		
5	806.97	35.26	30.43	4.83	46.00	-10.74	126	360	Peak	Horizontal		
6	874.87	36.77	31.21	5.56	46.00	-9.23	127	360	Peak	Horizontal		

Vertical



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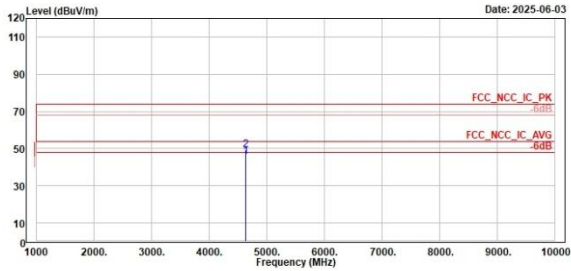
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	57.16	23.40	29.27	-5.87	40.00	-16.60	200	194	Peak	Vertical		
2	145.43	23.20	29.37	-6.17	43.50	-20.30	100	170	Peak	Vertical		
3	500.45	38.45	39.35	-0.90	46.00	-7.55	100	34	Peak	Vertical		
4	625.58	33.38	31.52	1.86	46.00	-12.62	132	360	Peak	Vertical		
5	790.48	34.28	29.97	4.31	46.00	-11.72	302	360	Peak	Vertical		
6	870.99	37.64	32.01	5.63	46.00	-8.36	110	360	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 10GHz

Horizontal



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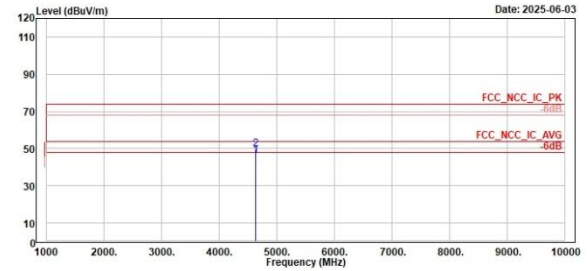


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4636.25	45.68	56.86	-11.18	54.00	-8.32	100	46	Average	Horizontal		
2	4636.25	49.42	60.60	-11.18	74.00	-24.58	100	46	Peak	Horizontal		

Vertical



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4636.25	46.07	57.25	-11.18	54.00	-7.93	107	93	Average	Vertical		
2	4636.25	49.74	60.92	-11.18	74.00	-24.26	107	93	Peak	Vertical		