FCC Radio Test Report

FCC ID: 2A5LO-ZLTW304VAPRO

This report concerns: Original Grant

Project No.	:	2410C139
Equipment	:	Wi-Fi6 Wireless Router
Brand Name	:	TOZED KANGWEI
Test Model	:	ZLT W304VA PRO
Series Model	:	N/A
Applicant	:	Tozed Kangwei Tech Co., Ltd
Address	:	Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou, China
Manufacturer	:	Tozed Kangwei Tech Co., Ltd
Address	:	Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou, China
Factory	:	Tozed Kangwei Tech Co., Ltd
Address	:	Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou, China
Date of Receipt	:	Oct. 30, 2024
Date of Test	:	Nov. 01, 2024 ~ Nov. 30, 2024
Issued Date	:	Dec. 05, 2024
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG20241030382 for AC Power Line Conducted Emissions and Radiated Emissions -9kHz to 30 MHz, DG20241030379 for Radiated Emissions -30MHz to 1000MHz, DG20241030380 for conducted.
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by : Chella Zheng

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC17025:2017requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2410C139	R00	Original Report.	Dec. 05, 2024	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
ANSI C63.10-2013

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart C				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.225(a)-(d) 15.205(a) 15.209(a)	Radiated Emission	APPENDIX B APPENDIX C	PASS	------
15.225(e)	Frequency Tolerance	APPENDIX D	PASS	------
15.215(c)	Bandwidth	APPENDIX E	PASS	------
15.203	Antenna Requirement	------	PASS	Note(2)

Note:

(1) “N/A” denotes test is not applicable in this test report
(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.
BTL's Registration Number for FCC: 747969
BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95.45% confidence level (based on a coverage factor (k=2))
The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB01	CISPR	9kHz ~ 30MHz	2.36

Test Site	Method	Measurement Frequency Range	Ant. H / V	*U*,(dB)
DG-CB03 (3m)	CISPR	30MHz ~ 200MHz	V	4.40
		30MHz ~ 200MHz	H	3.62
		200MHz ~ 1,000MHz	V	4.58
		200MHz ~ 1,000MHz	H	3.98

C. Other Measurement test:

Test Item	Uncertainty
Frequency Tolerance	2.7 ppm
Temperature	0.8 °C
Humidity	2.2 %
Bandwidth	0.90 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	52%	AC 120V/60Hz	Hayden Chen	Nov. 08, 2024
Radiated Emissions-9kHz to 30MHz	26°C	48%	AC 120V/60Hz	Hayden Chen	Nov. 11, 2024
Radiated Emissions-30MHz to 1000MHz	24°C	53%	AC 120V/60Hz	Calvin Wen	Nov. 29, 2024
Frequency Tolerance	Normal & Extreme	49%	Normal & Extreme	Parker Yang	Nov. 21, 2024
Bandwidth	24°C	49%	AC 120V/60Hz	Parker Yang	Nov. 20, 2024

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wi-Fi6 Wireless Router
Brand Name	TOZED KANGWEI
Test Model	ZLT W304VA PRO
Series Model	N/A
Model Difference(s)	N/A
Software Version	1.0
Hardware Version	TZ7.823.835A
Power Source	DC Voltage supplied from AC adapter. Model: SA240V-240100U
Power Rating	I/P: 100-240V ~ 50/60Hz 0.8A Max O/P: 24V ⎓ 1A
Operation Frequency	13.56 MHz
Antenna Type	Loop Antenna

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

Test Channel	Test Frequency (MHz)
01	13.56

3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode_13.56MHz

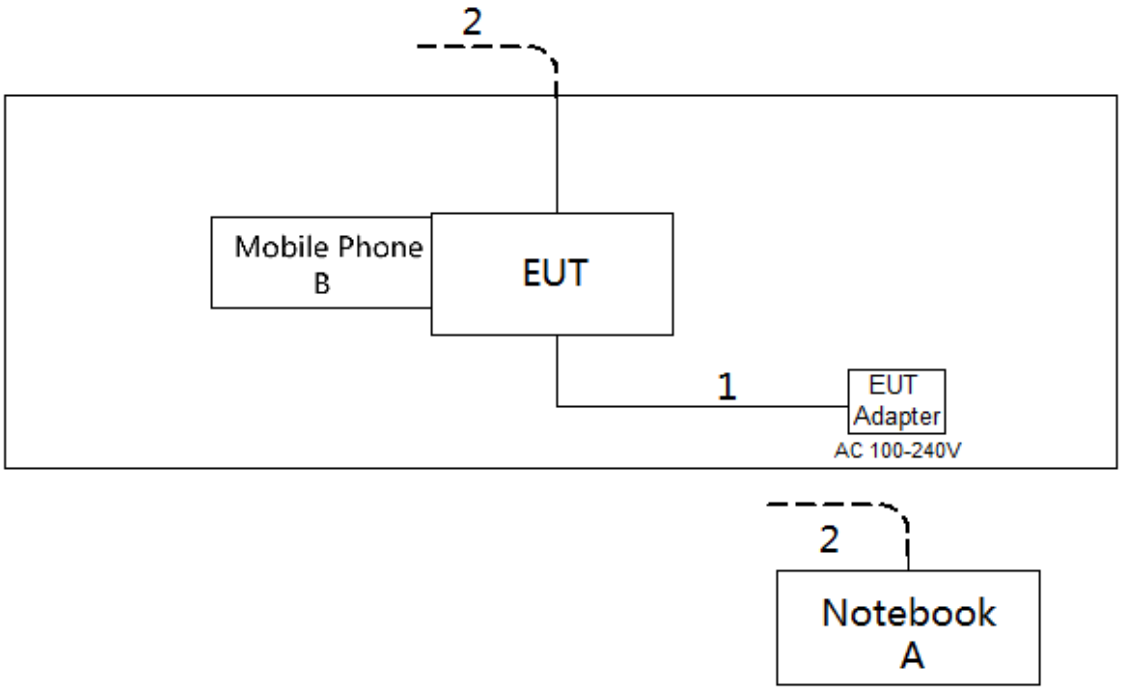
Following mode(s) was (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test	
Final Test Mode	Description
Mode 1	TX Mode_13.56MHz

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_13.56MHz

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_13.56MHz

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	14SER5 3500	N/A
B	Mobile Phone	Samsung	S9	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

Frequency of Emission (MHz)	Limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

Note:

(1) The tighter limit applies at the band edges.
(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item - EUT Test Photos.

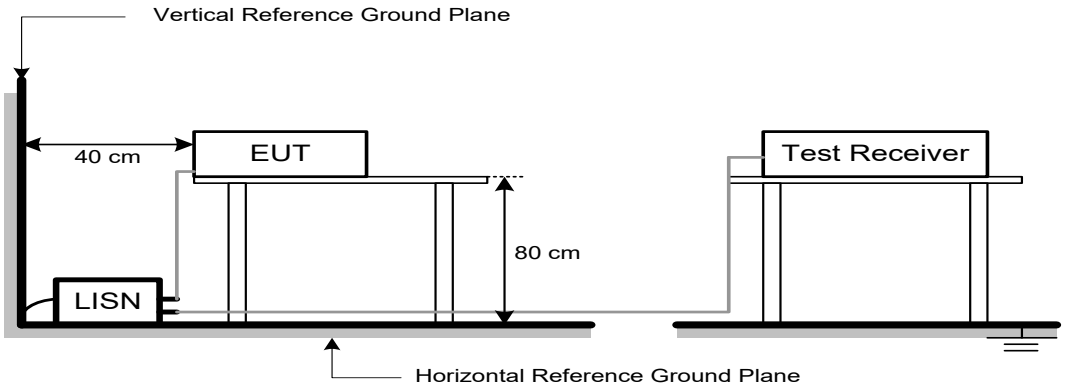
The following table is the setting of the receiver

Receiver Parameter	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.3 DEVIATION FROM TEST STANDARD

No deviation.

4.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting data or hopping on mode.

4.6 TEST RESULTS

Please refer to the APPENDIX A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.

(2) Measuring frequency range from 150 kHz to 30 MHz.

5. RADIATED EMISSION

5.1 LIMIT

§15.225 (a)
The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
§15.225 (b)
Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
§15.225 (c)
Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
§15.225 (d)
The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.
§15.209 (a)
Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

LIMITS OF RADIATED EMISSION MEASUREMENT (9 kHz-1000 MHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:
(1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
(2) The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

5.2 TEST PROCEDURE

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013.The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.
Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~150 kHz for RBW 200 Hz
Start ~ Stop Frequency	0.15 MHz~30 MHz for RBW 9 kHz
Start ~ Stop Frequency	30 MHz~1000 MHz for RBW 100 kHz

Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector

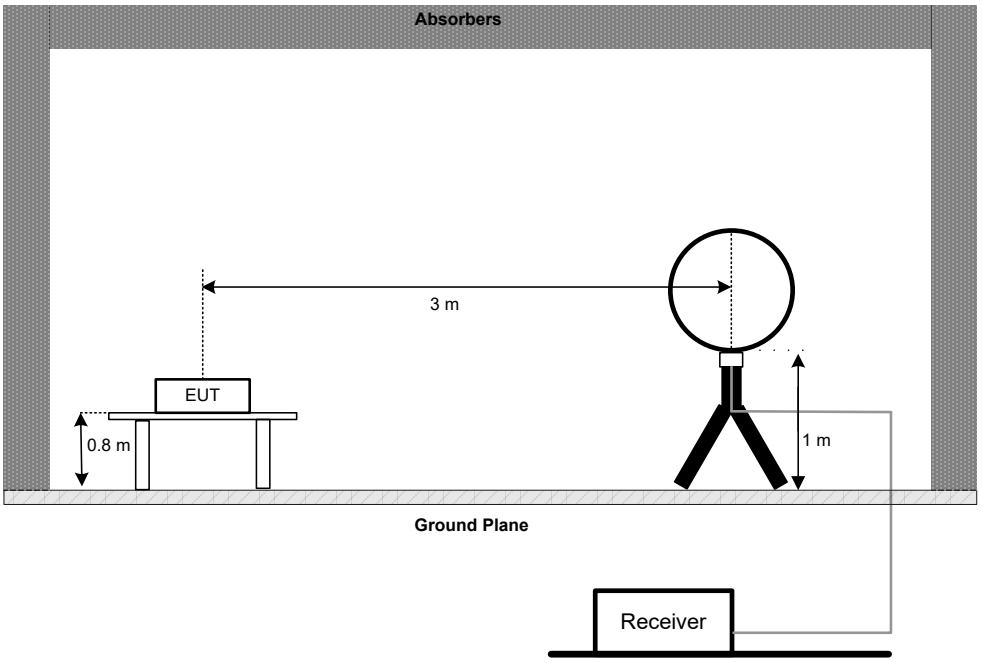
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

5.3 DEVIATION FROM TEST STANDARD

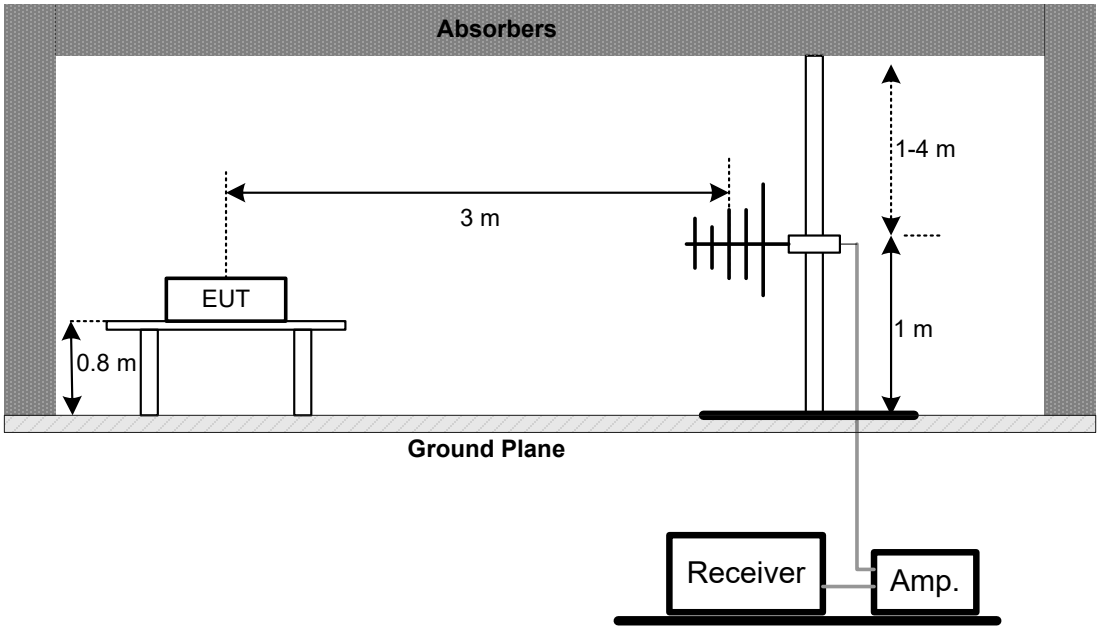
No deviation.

5.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1000 MHz



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS - 9 kHz TO 30 MHz

Please refer to the APPENDIX B.

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

6. FREQUENCY TOLERANCE

6.1 LIMIT

Section	Test Item	Limit
FCC 15.225(e)	Frequency Tolerance	±1.356 kHz

6.2 TEST PROCEDURE

a. The frequency tolerance of the carrier signal shall be maintained within ±0.01% of theoperating frequency over a temperature variation of −20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

b. Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	100 kHz
RBW	10 kHz
VBW	30 kHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

Please refer to the APPENDIX D.

7. BANDWIDTH TEST

7.1 LIMIT

Section	Test Item	Limit
15.215(c)	20 dB Bandwidth	-

7.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

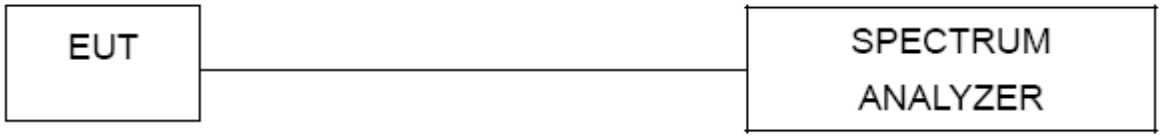
b. Spectrum Setting:

Spectrum Parameter	Setting
Span Frequency	100 kHz
RBW	10 kHz
VBW	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX E.

8. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI TEST RECEIVER	R&S	ESCI	100382	Dec. 22, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 09, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Sep. 09, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 31, 2025
4	Cable	RegalWay	LMR400-NMNM-12 .5m	N/A	Jun. 06, 2025
5	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jun. 06, 2025
6	Cable	RegalWay	LMR400-NMNM-0. 5m	N/A	Jun. 06, 2025
7	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
8	Positioning Controller	MF	MF-7802	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	CM	9*6*6	N/A	May 16,2025

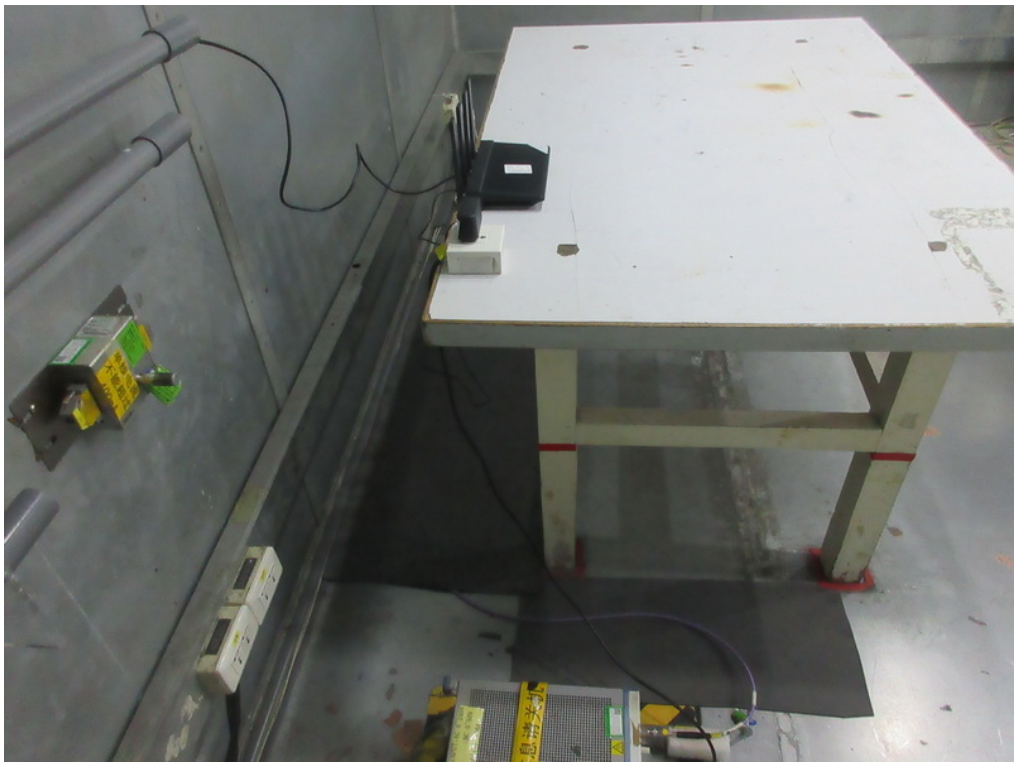
Frequency Tolerance					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025
2	PCB antenna	N/A	N/A	N/A	N/A
3	AC power source	Preen	AFC-S-1250	F123080107	May 06, 2025
4	Table top type high and low temperature test chamber	CEPREI	CEEC-M64T-40	15-008	Dec. 22, 2024

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025
2	PCB antenna	N/A	N/A	N/A	N/A

Remark "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

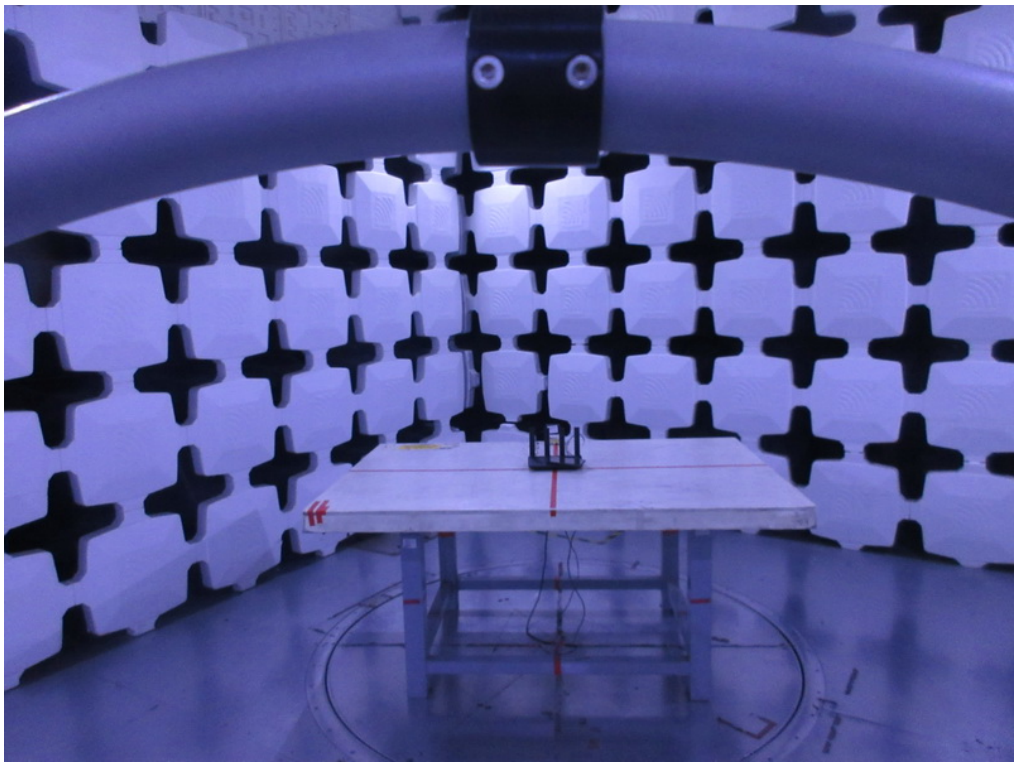
9. EUT TEST PHOTO

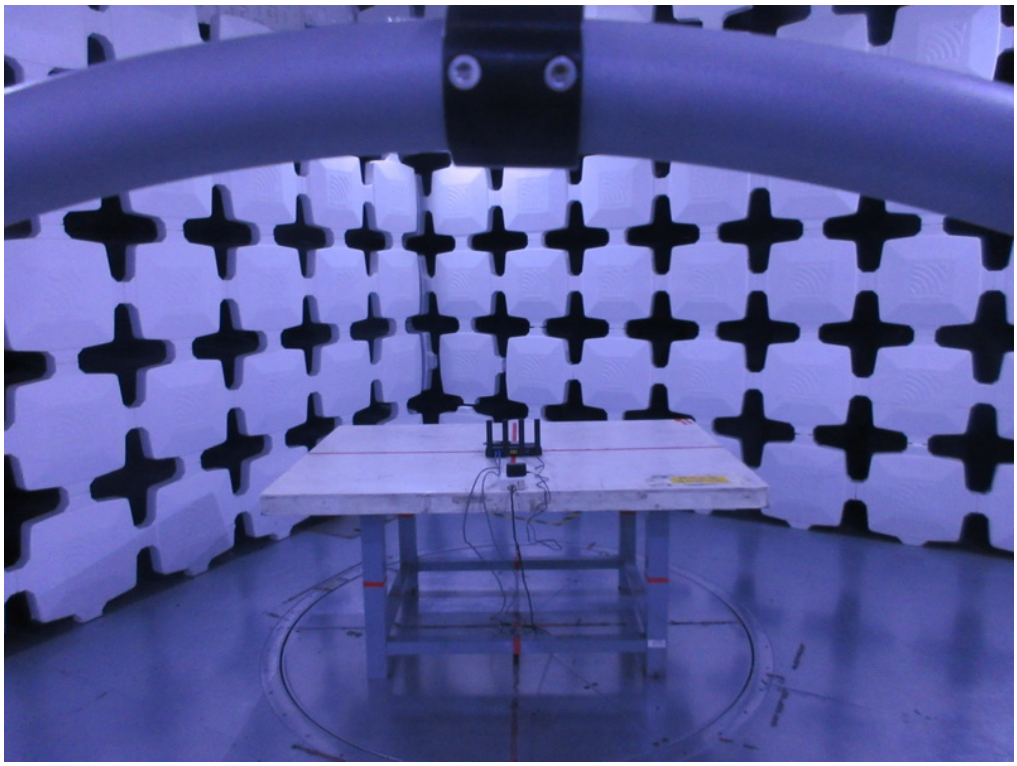
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

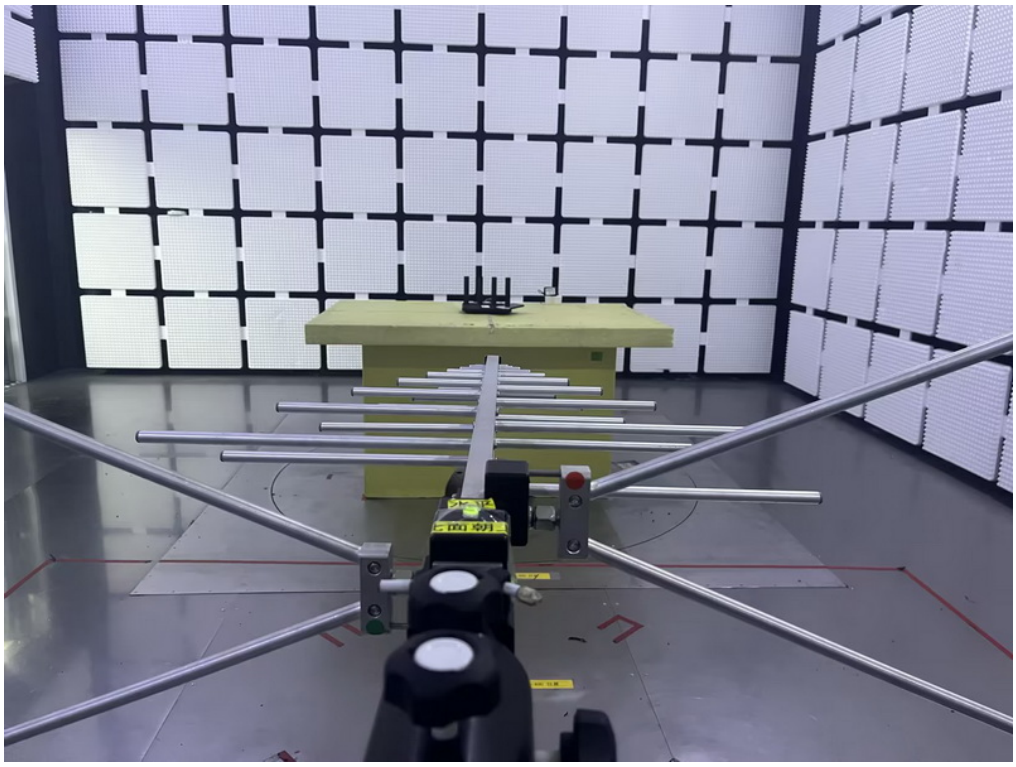
9 kHz to 30 MHz

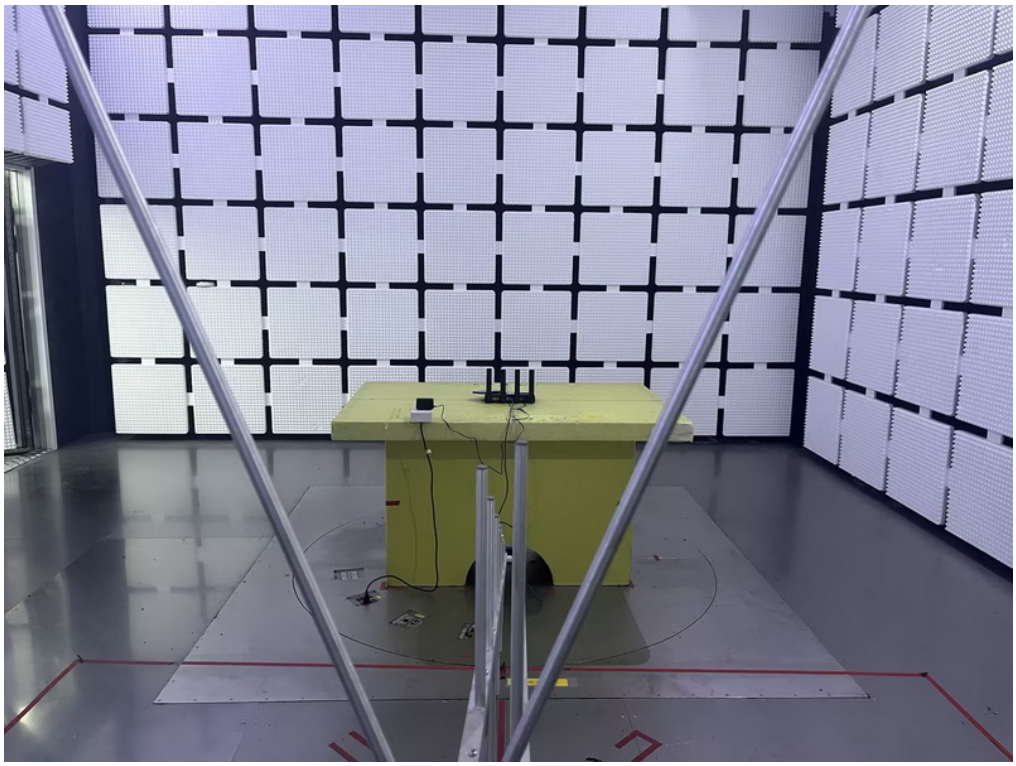




Radiated Emissions Test Photos

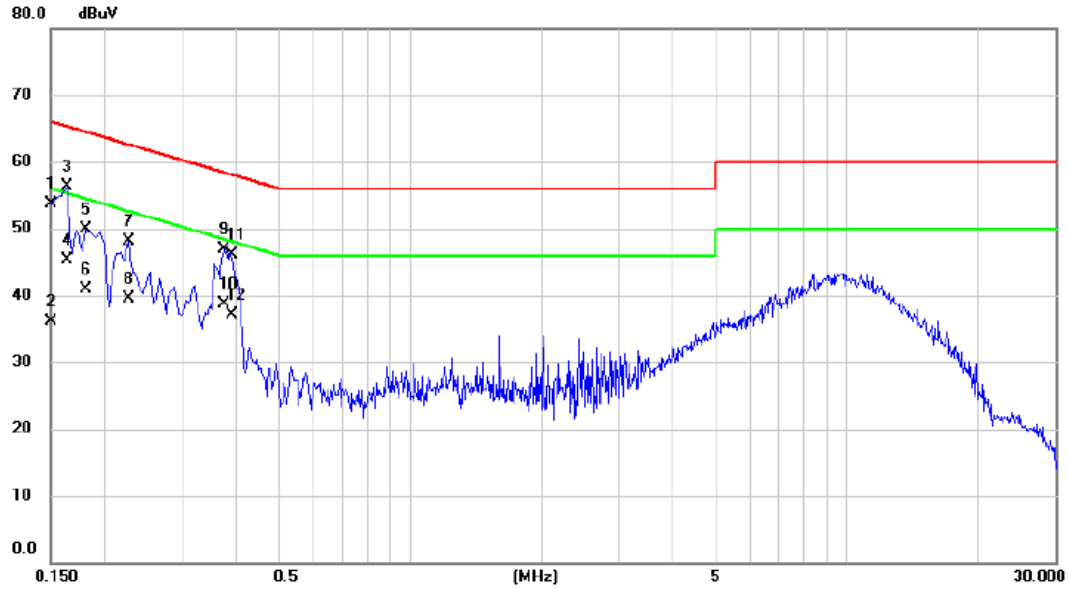
30 MHz to 1000 MHz





APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

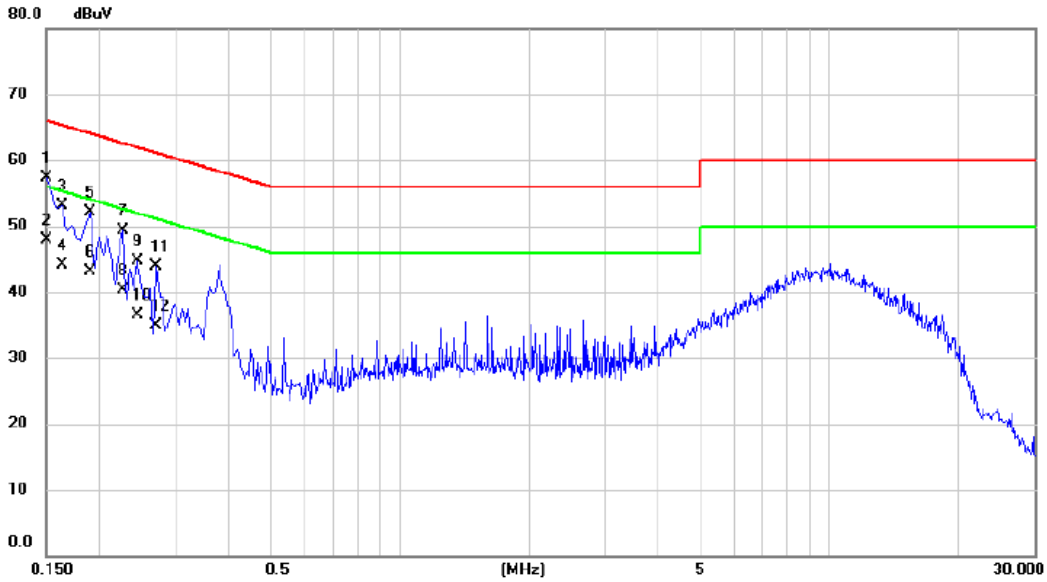
Test Mode	TX Mode_13.56MHz	Phase	Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	44.05	9.70	53.75	66.00	-12.25	QP	
2		0.1500	26.40	9.70	36.10	56.00	-19.90	AVG	
3	*	0.1635	46.53	9.70	56.23	65.28	-9.05	QP	
4		0.1635	35.60	9.70	45.30	55.28	-9.98	AVG	
5		0.1815	40.17	9.70	49.87	64.42	-14.55	QP	
6		0.1815	31.20	9.70	40.90	54.42	-13.52	AVG	
7		0.2265	38.49	9.71	48.20	62.58	-14.38	QP	
8		0.2265	29.80	9.71	39.51	52.58	-13.07	AVG	
9		0.3750	37.22	9.72	46.94	58.39	-11.45	QP	
10		0.3750	28.90	9.72	38.62	48.39	-9.77	AVG	
11		0.3893	36.45	9.72	46.17	58.08	-11.91	QP	
12		0.3893	27.30	9.72	37.02	48.08	-11.06	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_13.56MHz	Phase	Neutral

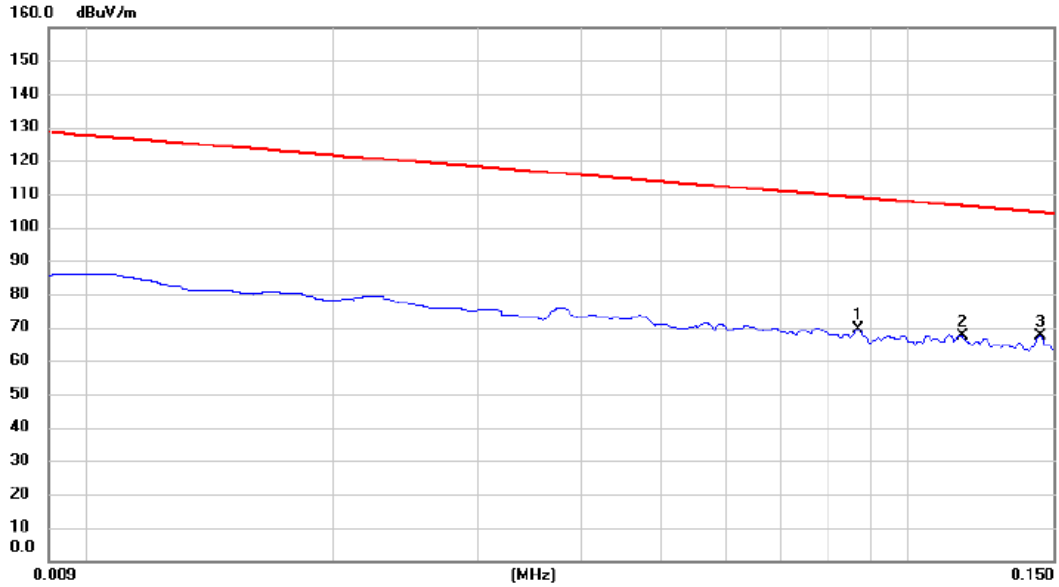


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	47.83	9.55	57.38	66.00	-8.62	QP	
2	*	0.1500	38.40	9.55	47.95	56.00	-8.05	AVG	
3		0.1635	43.60	9.55	53.15	65.28	-12.13	QP	
4		0.1635	34.50	9.55	44.05	55.28	-11.23	AVG	
5		0.1905	42.52	9.56	52.08	64.01	-11.93	QP	
6		0.1905	33.60	9.56	43.16	54.01	-10.85	AVG	
7		0.2265	39.78	9.57	49.35	62.58	-13.23	QP	
8		0.2265	30.70	9.57	40.27	52.58	-12.31	AVG	
9		0.2445	35.17	9.57	44.74	61.94	-17.20	QP	
10		0.2445	26.90	9.57	36.47	51.94	-15.47	AVG	
11		0.2714	34.41	9.57	43.98	61.07	-17.09	QP	
12		0.2714	25.30	9.57	34.87	51.07	-16.20	AVG	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

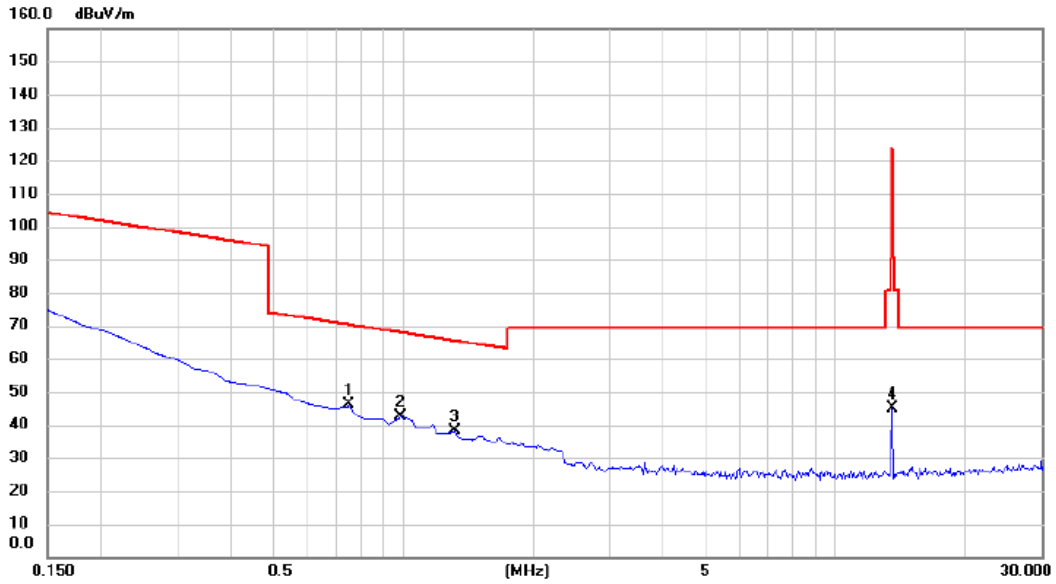
Test Mode	TX Mode_13.56MHz	Polarization	Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0868	48.12	21.30	69.42	108.94	-39.52	peak	
2		0.1163	45.90	21.31	67.21	106.41	-39.20	peak	
3	*	0.1445	46.21	21.27	67.48	104.54	-37.06	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

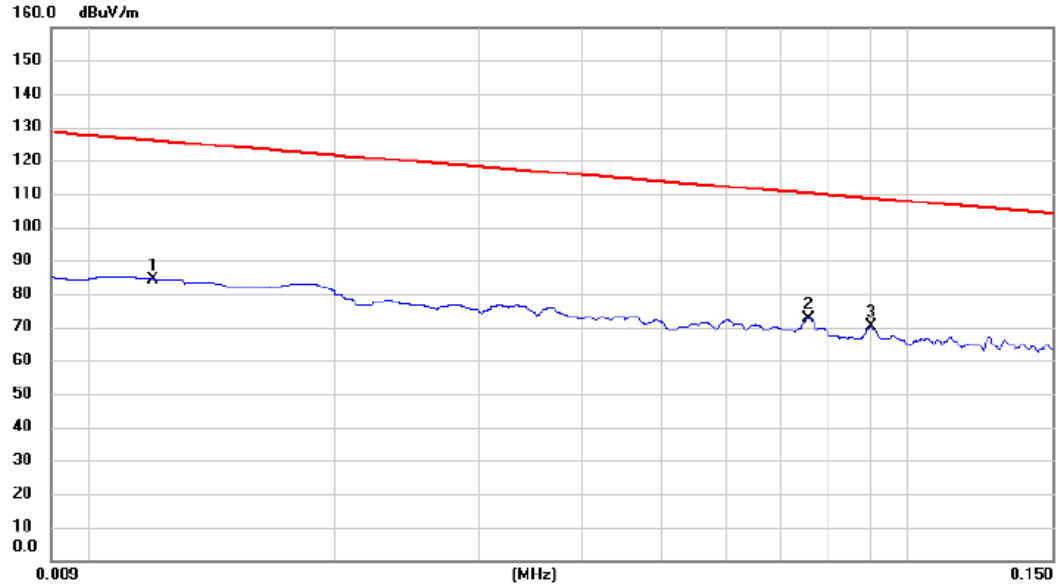
Test Mode	TX Mode_13.56MHz	Polarization	Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.7470	24.86	21.15	46.01	70.36	-24.35	peak	
2		0.9858	21.28	21.18	42.46	67.96	-25.50	peak	
3		1.3141	16.89	21.16	38.05	65.48	-27.43	peak	
4		13.5620	23.78	21.26	45.04	124.00	-78.96	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

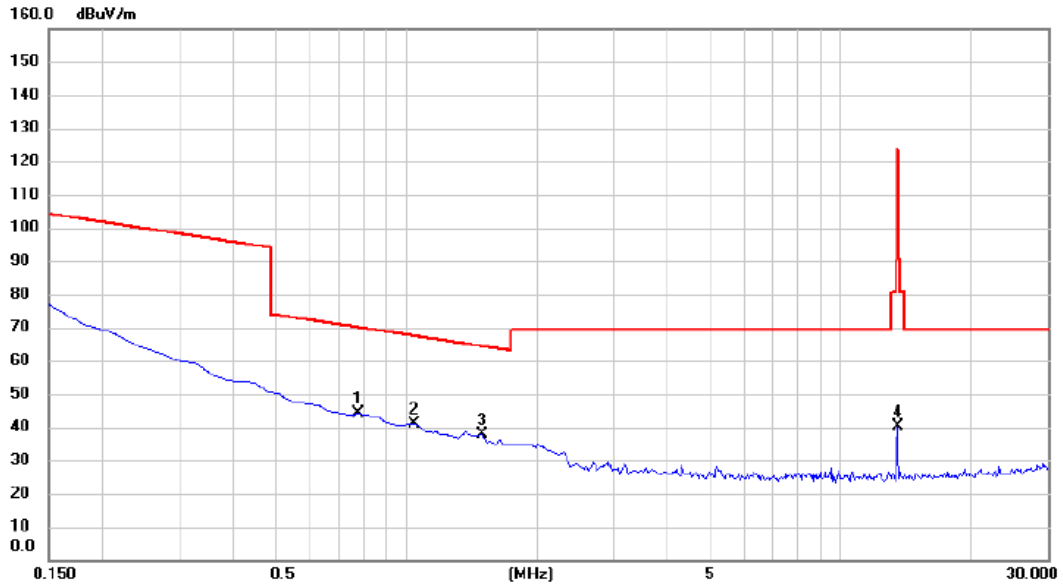
Test Mode	TX Mode_13.56MHz	Polarization	Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0120	63.74	20.56	84.30	126.02	-41.72	peak	
2	*	0.0757	51.28	21.29	72.57	110.12	-37.55	peak	
3		0.0901	48.68	21.33	70.01	108.62	-38.61	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_13.56MHz	Polarization	Ant 90°

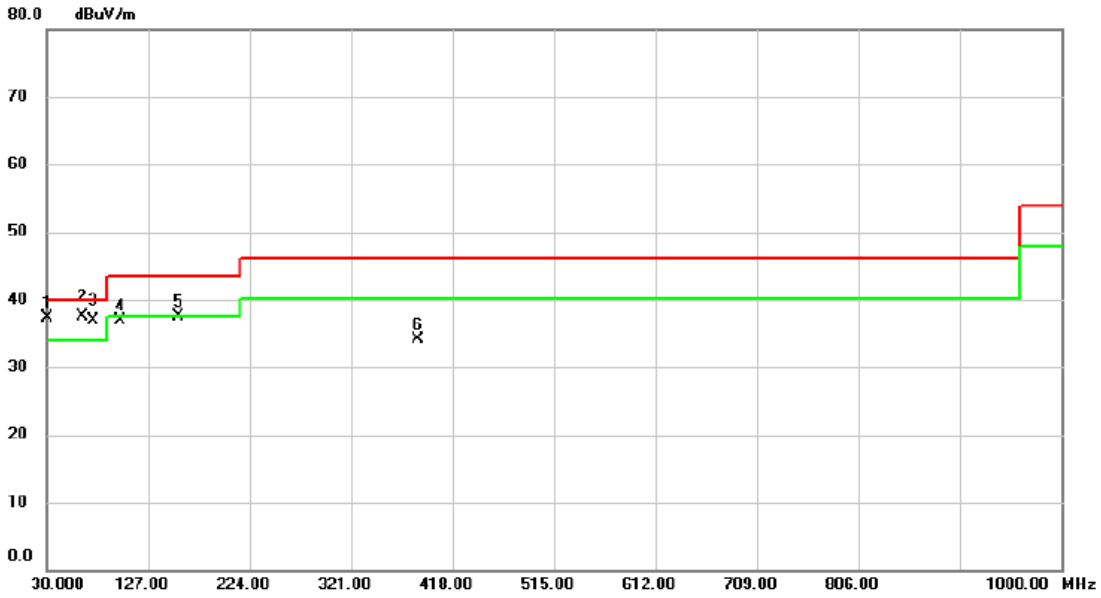


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.7768	22.98	21.16	44.14	70.02	-25.88	peak	
2		1.0455	19.96	21.18	41.14	67.45	-26.31	peak	
3		1.4932	16.70	21.14	37.84	64.37	-26.53	peak	
4		13.5628	19.03	21.26	40.29	124.00	-83.71	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

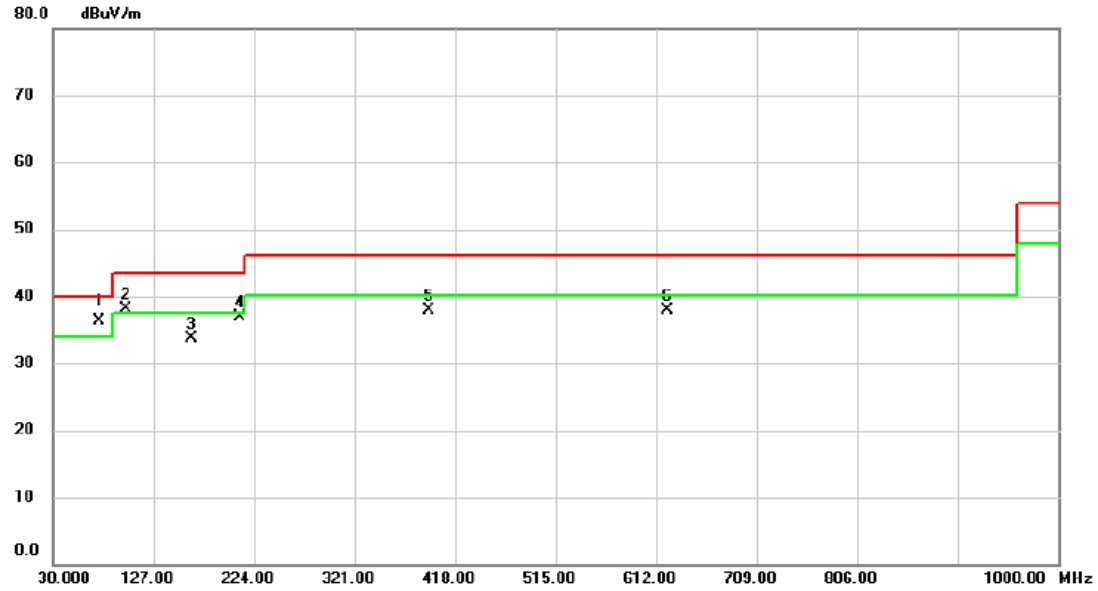
Test Mode	TX Mode_13.56MHz	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	!	30.000	50.34	-13.12	37.22	40.00	-2.78	peak	
2	*	64.435	49.99	-12.58	37.41	40.00	-2.59	QP	
3	!	75.105	51.30	-14.37	36.93	40.00	-3.07	QP	
4		100.325	52.80	-15.87	36.93	43.52	-6.59	peak	
5	!	156.585	48.53	-10.95	37.58	43.52	-5.94	peak	
6		385.505	42.47	-8.41	34.06	46.02	-11.96	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_13.56MHz	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	74.620	50.66	-14.29	36.37	40.00	-3.63	QP	
2	!	99.840	54.02	-15.95	38.07	43.52	-5.45	peak	
3		163.375	44.66	-10.98	33.68	43.52	-9.84	peak	
4		210.420	51.35	-14.43	36.92	43.52	-6.60	peak	
5		392.780	46.08	-8.18	37.90	46.02	-8.12	peak	
6		623.155	41.20	-3.25	37.95	46.02	-8.07	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - FREQUENCY TOLERANCE

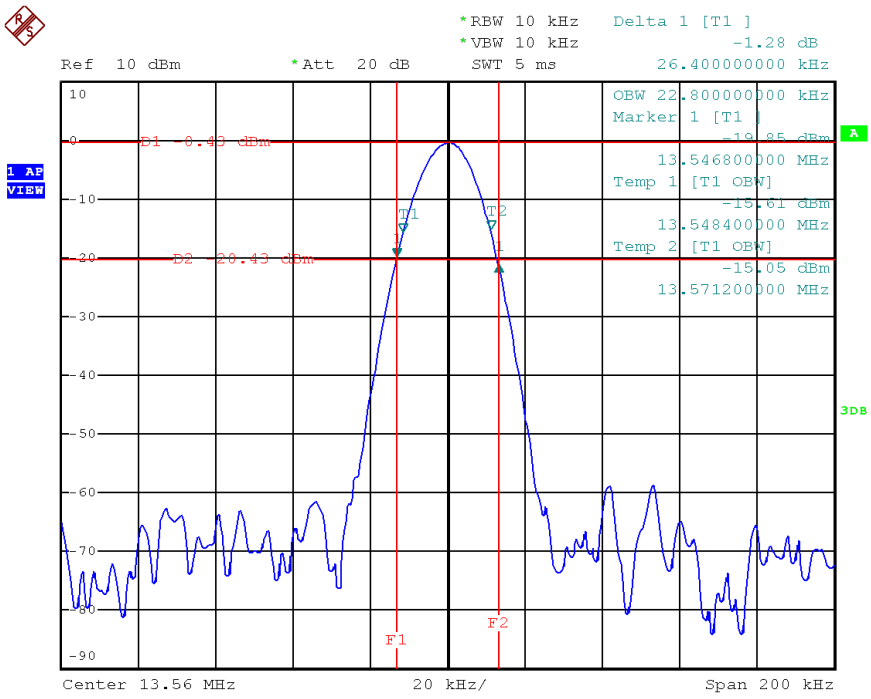
Test Mode	TX Mode_13.56MHz

Frequency Tolerance Versus Environmental Temperature					
Temperature	Voltage	Frequency	Frequency Error	Limit	Result
(℃)	(V)	(MHz)	(kHz)	(kHz)	
24	120	13.5598	-0.2	+/- 1.356	PASS
40	120	13.5598	-0.2	+/- 1.356	PASS
0	120	13.5598	-0.2	+/- 1.356	PASS
40	120	13.5598	-0.2	+/- 1.356	PASS
0	120	13.5598	-0.2	+/- 1.356	PASS
40	120	13.5598	-0.2	+/- 1.356	PASS
0	120	13.5598	-0.2	+/- 1.356	PASS
40	120	13.5598	-0.2	+/- 1.356	PASS
0	120	13.5598	-0.2	+/- 1.356	PASS
Frequency Tolerance Versus Input Voltage					
Temperature	Voltage	Frequency	Frequency Error	Limit	Result
(℃)	(V)	(MHz)	(kHz)	(kHz)	
24	120	13.5598	-0.2	+/- 1.356	PASS
24	102	13.5598	-0.2	+/- 1.356	PASS
24	138	13.5598	-0.2	+/- 1.356	PASS

APPENDIX E - BANDWIDTH

Test Mode	TX Mode_13.56MHz

Frequency (MHz)	20 dB Bandwidth (MHz)	Result
13.56	0.0228	Complies



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End of Test Report