




# FCC Radio Test Report

## FCC ID: 2AR2STAT2149

This report concerns: Original Grant

**Project No.** : 2407C212  
**Equipment** : True wireless headphones  
**Brand Name** : PHILIPS or   
**Test Model** : TAT2149  
**Series Model** : TAT2149xx/yy, TAT2159, TAT2159xx/yy (xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination).  
**Applicant** : MMD Hong Kong Holding Limited  
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**Factory** : Jiangxi Cosonic Electroacoustic Technologies Co., Ltd.  
**Address** : Shangli Industrial Park, Jinshan Town, Shangli County, Pingxiang, Jiangxi  
**Date of Receipt** : Jul. 30, 2024  
**Date of Test** : Jul. 30, 2024 ~ Aug. 19, 2024  
**Issued Date** : Nov. 11, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG20240730109 for conducted, DG20240730108 for others.  
**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.

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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**.

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**BTL's** laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, 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-3-2407C212	R00	Original Report.	Nov. 11, 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

The following reference test guidance is not within the scope of accreditation of A2LA:

KDB 558074 D01 15.247 Meas Guidance v05r02

## 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	-----
15.247(d) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.247(a)(2)	Bandwidth	APPENDIX E	PASS	-----
15.247(b)(3)	Maximum Output Power	APPENDIX F	PASS	-----
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS	-----
15.247(e)	Power Spectral Density	APPENDIX H	PASS	-----
15.203	Antenna Requirement	-----	PASS	Note(2)

Note:

(1) "N/A" denotes test is not applicable to this device.

(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

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	4.08
		6GHz ~ 18GHz	4.62

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.36

### C. Other Measurement:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Conducted Spurious Emission	1.9 dB
Power Spectral Density	1.4 dB
Temperature	0.8 °C
Humidity	2.2 %


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	26°C	60%	AC 120V/60Hz	Hayden Chen	Aug. 14, 2024
Radiated Emissions-9 kHz to 30 MHz	25°C	40%	DC 5V	Hayden Chen	Aug. 14, 2024
Radiated Emissions-30 MHz to 1000 MHz	23°C	54%	DC 5V	Chen Mo	Aug. 14, 2024
Radiated Emissions-Above 1000 MHz	24°C	55%	DC 5V	Jensen Zhou	Aug. 11, 2024
Bandwidth	21°C	57%	DC 5V	Parker Yang	Aug. 02, 2024
Maximum Output Power	22°C	55%	DC 5V	Parker Yang	Aug. 13, 2024
Conducted Spurious Emission	21°C	57%	DC 5V	Parker Yang	Aug. 02, 2024
Power Spectral Density	21°C	57%	DC 5V	Parker Yang	Aug. 02, 2024

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	True wireless headphones
Brand Name	PHILIPS or 
Test Model	TAT2149
Series Model	TAT2149xx/yy, TAT2159, TAT2159xx/yy (xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination).
Model Difference(s)	Just different regions, different colors and different model names.
Hardware Version	V4.0
Software Version	V1.012
Earphone	Left Earphone
Power Source	Charging case: 1# Supplied from USB port. 2# Battery supplied. Model: 551330 Earphone: 1# Supplied from Charging case. 2# Battery supplied. Model: 1144
Power Rating	Charging case: 1# 5V $\overline{\text{---}}$ 500mA 2# DC 3.7V, 190mAh, 0.703Wh Earphone: 1# 5V $\overline{\text{---}}$ 65mA x 2 2# DC 3.7V, 0.148Wh
Operation Frequency	1Mbps: 2402 MHz ~ 2480 MHz 2Mbps: 2404 MHz ~ 2478 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	1Mbps, 2Mbps
Max. Output Power	1Mbps: 4.93 dBm (0.0031 W)

Note:

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

## 2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Note: 1Mbps supports Channel 00-39 while 2Mbps supports Channel 01-38.

## 3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	Cosonic Intelligent Technologies Co., Ltd.	CE-2187B	FPC	N/A	-0.4

### 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_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 01/19/38
Mode 3	TX Mode_1Mbps Channel 19

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 3	TX Mode_1Mbps Channel 19

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 3	TX Mode_1Mbps Channel 19

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 01/19/38

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_1Mbps Channel 00/19/39
Mode 2	TX Mode_2Mbps Channel 01/19/38

Note:

- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 1Mbps Channel 19 is found to be the worst case and recorded.
- (3) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (4) For radiated emission above 1GHz test, both Vertical and Horizontal are evaluated, only the worst case is recorded.

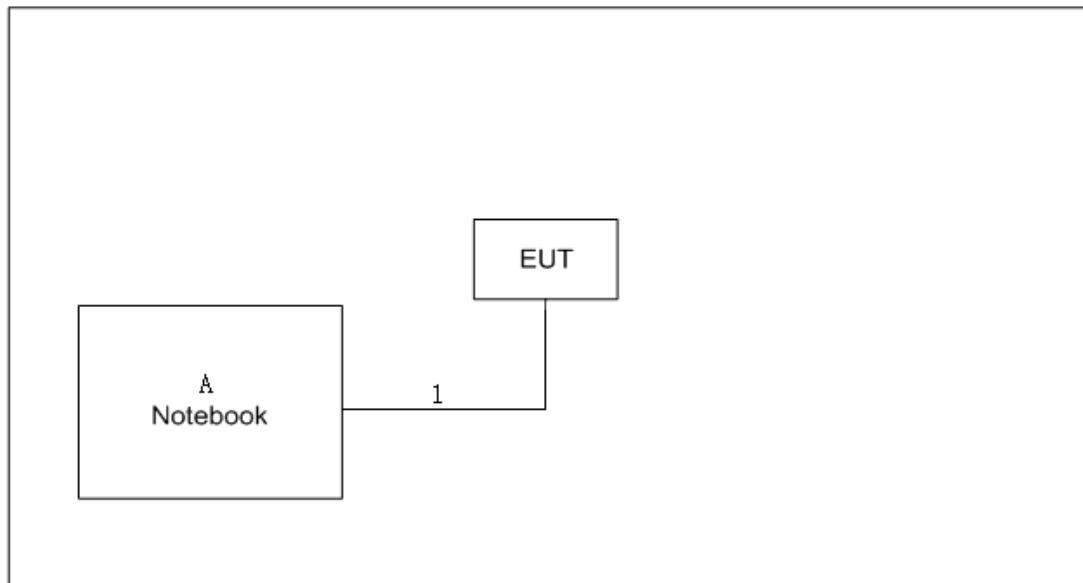
### 3.3 PARAMETERS OF TEST SOFTWARE

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

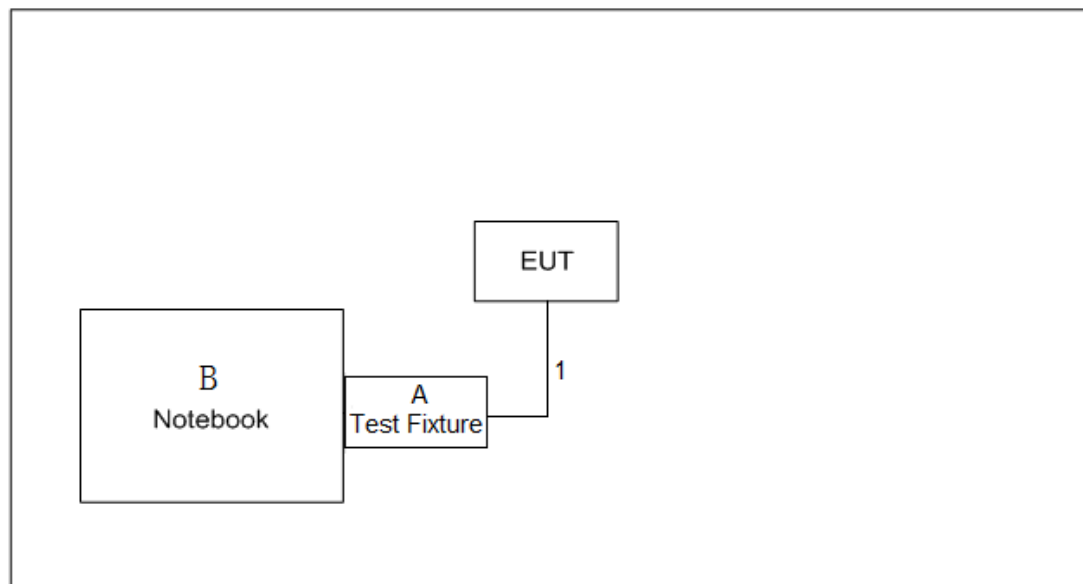
Test Software Version	BT_Tool V1.1.4		
Frequency (MHz)	2402	2440	2480
1Mbps	5	7	6
Frequency (MHz)	2404	2440	2478
2Mbps	5	5	6

### 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

AC power line conducted emissions test and Radiated emissions test - 9 kHz to 30 MHz



Radiated emissions test - Above 30 MHz



### 3.5 SUPPORT UNITS

#### AC power line conducted emissions test and Radiated emissions test - 9 kHz to 30 MHz

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Lenovo	V310-14ISK	LR07GZNB

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.8m

#### Radiated emissions test - Above 30 MHz

Item	Equipment	Brand	Model No.	Series No.	Note
A	Test Fixture	N/A	N/A	N/A	-
B	Notebook	Lenovo	Pro 13	N/A	Above 1000 MHz
		HUAWEI	WFH9	N/A	30 MHz to 1000 MHz

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	Data Cable	NO	NO	0.1m

### 3.6 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for radiated spurious emissions, the results of all test items include cable losses. Part of the cable losses (1dB) are provided by the manufacturer, while the other parts of the cable losses are provided by the testing laboratory.

## 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 LIMIT

Frequency of Emission (MHz)	Limit (dB $\mu$ V)	
	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.

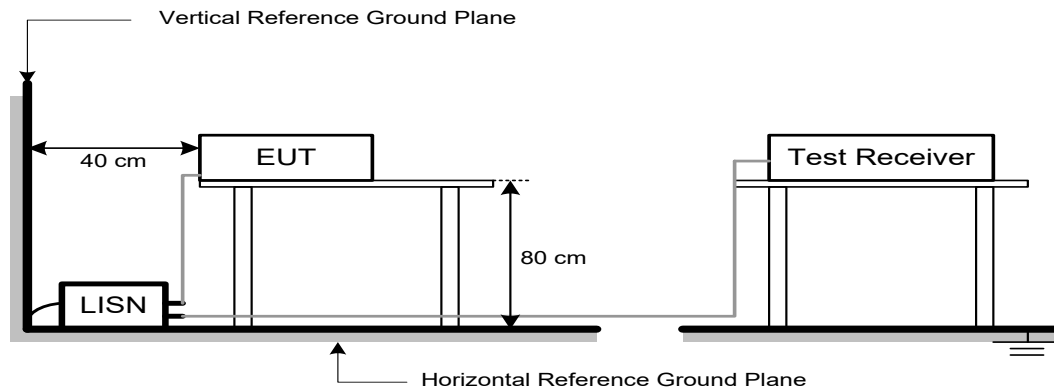
The following table is the setting of the receiver:

Receiver Parameters	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 fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

#### 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 EMISSIONS

### 5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### 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

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	Band edge/ Harmonic at 3m (dBμV/m)		Harmonic at 1m (dBμV/m)	
	Peak	Average	Peak	Average
Above 1000	74	54	83.5 (Note 4)	63.5 (Note 4)

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).
- (4)

$$FS_{\text{limit}} = FS_{\text{max}} - 20 \log \left( \frac{d_{\text{limit}}}{d_{\text{measure}}} \right)$$

$20 \log (d_{\text{limit}}/d_{\text{measure}}) = 20 \log (3/1) = 9.5 \text{ dB}$ .

$FS_{\text{limit}}$ : Harmonic at 3m Peak and Average limit.

$FS_{\text{max}}$ : Harmonic at 1m Peak and Average Maximum value.

$d_{\text{limit}}$ : Harmonic at 3m test distance.

$d_{\text{measure}}$ : Harmonic Actual test distance.

## 5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m or 1m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.  
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

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

Spectrum Parameters	Setting
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	1 MHz / 3 MHz for PK value 1 MHz / 1/T Hz for AVG value

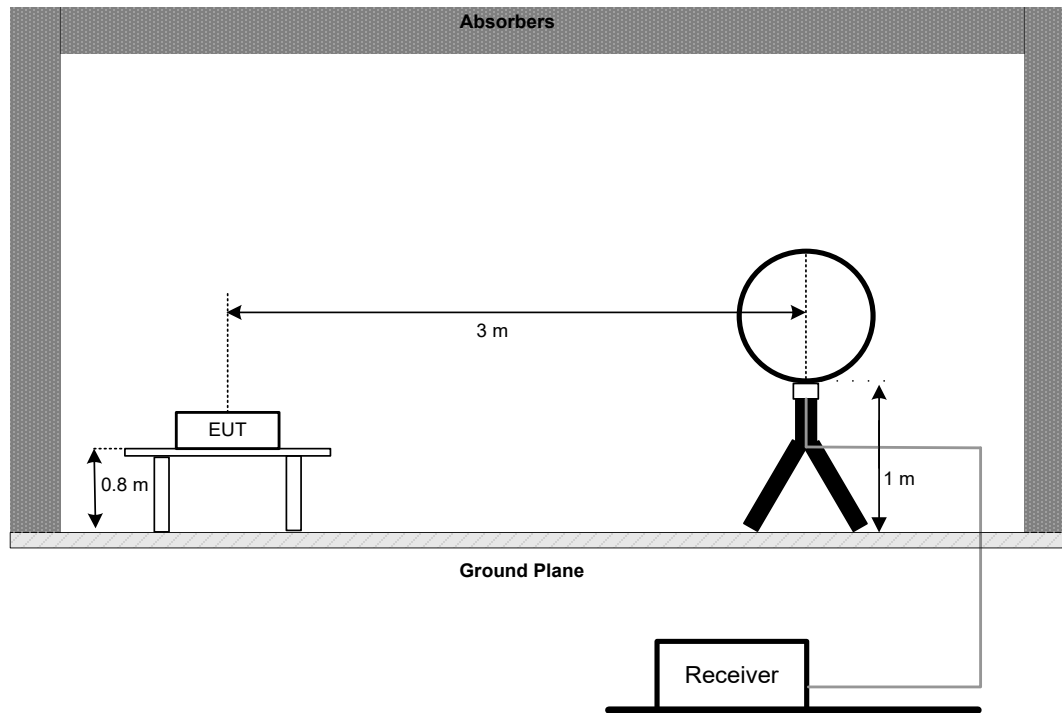
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector
Start ~ Stop Frequency	1 GHz~26.5 GHz for PK/AVG detector

## 5.3 DEVIATION FROM TEST STANDARD

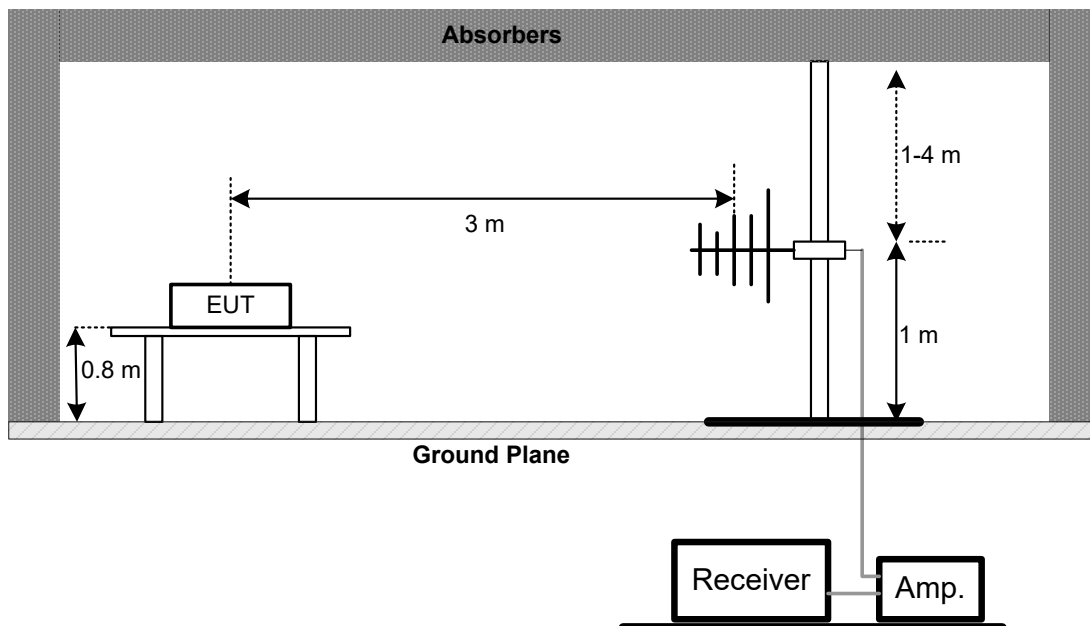
No deviation.

## 5.4 TEST SETUP

9 kHz to 30 MHz

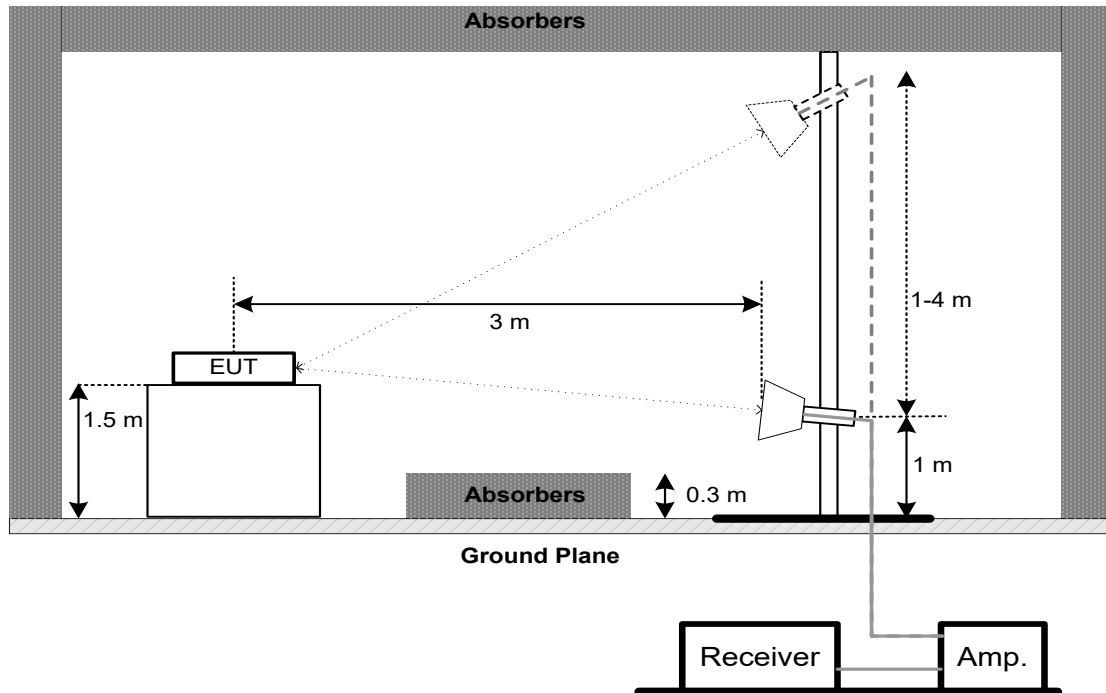


30 MHz to 1 GHz

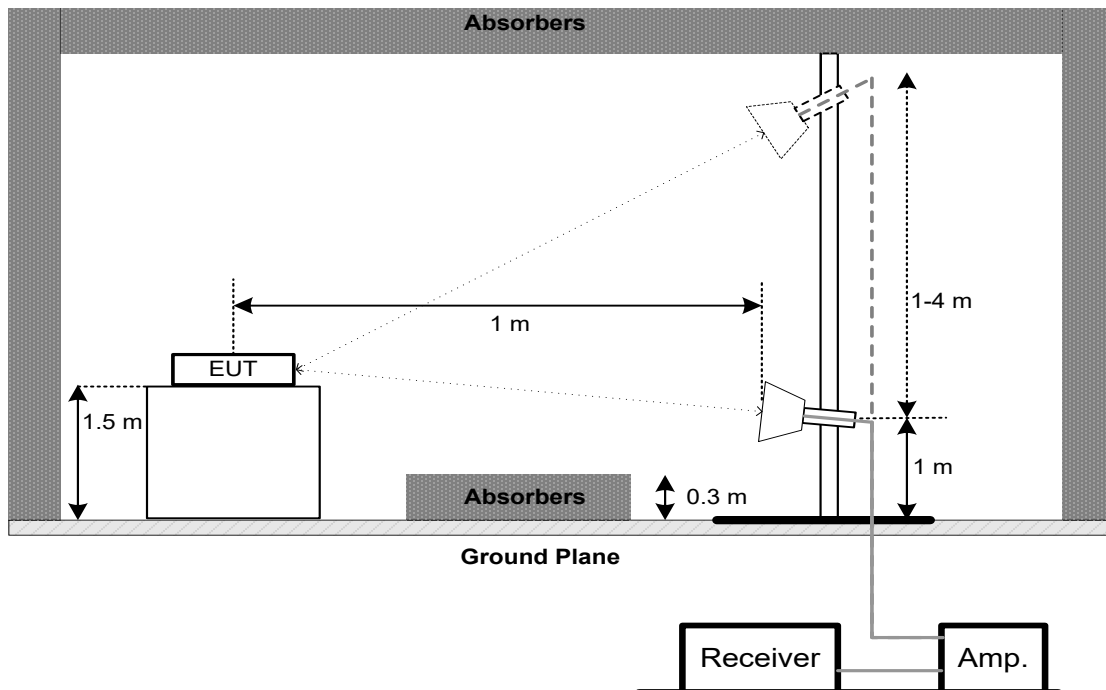


## Above 1 GHz

### Band edge & Harmonic (1 GHz to 18 GHz)



### Harmonic (18 GHz to 26.5 GHz)



**5.5 EUT OPERATING CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**5.6 TEST RESULT - 9 kHz TO 30 MHz**

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

**5.7 TEST RESULT - 30 MHz TO 1000 MHz**

Please refer to the APPENDIX C.

**5.8 TEST RESULT - ABOVE 1000 MHz**

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 6. BANDWIDTH

### 6.1 LIMIT

Section	Test Item	Limit
FCC 15.247(a)(2)	6 dB Bandwidth	$\geq 500$ kHz
	99% Emission Bandwidth	-

### 6.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

For 6 dB Bandwidth:

Spectrum Parameters	Setting
Span Frequency	$>$ Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	30 kHz
VBW	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULTS

Please refer to the APPENDIX E.

## 7. MAXIMUM OUTPUT POWER

### 7.1 LIMIT

Section	Test Item	Limit
FCC 15.247(b)(3)	Maximum Output Power	1.0000 watt or 30.00 dBm

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	$\geq 3 \times \text{RBW}$
RBW	3 MHz
VBW	3 MHz
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 F.

## 8. CONDUCTED SPURIOUS EMISSION

### 8.1 LIMIT

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 Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Start Frequency	30 MHz
Stop Frequency	26.5 GHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 8.3 DEVIATION FROM STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULTS

Please refer to the APPENDIX G.

## 9. POWER SPECTRAL DENSITY

### 9.1 LIMIT

Section	Test Item	Limit
FCC 15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)

### 9.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	2 MHz (1 Mbps) / 4 MHz (2 Mbps)
RBW	3 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 9.6 TEST RESULTS

Please refer to the APPENDIX H.

## 10. 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-9 M-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	RG 213/U	N/A	Jun. 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	1462	Dec. 13, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 13, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	Nov. 17, 2024
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

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Agilent	N9038A	MY52130039	Dec. 22, 2024
2	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980888	Nov. 17, 2024
3	EXA Signal Analyzer	Keysight	N9010A	MY56480488	Dec. 22, 2024
4	Double Ridged Guide Antenna	ETS	3115	75789	Jun. 15, 2025
5	Cable	RegalWay	RWLP50-4.0A-SMSM-12.5M	N/A	Jul. 03, 2025
6	Cable	RegalWay	RWLP50-4.0A-NMRA SM-2.5M	N/A	Jul. 03, 2025
7	Cable	RegalWay	RWLP50-4.0A-NMRA SMRA-0.8M	N/A	Jul. 03, 2025
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 17, 2025
9	Cable	RegalWay	RWLP50-2.6A-2.92M 2.92M-1.1M	N/A	Jul. 25, 2025
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
12	966 Chamber room	CM	9*6*6	N/A	May 19, 2025
13	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
14	Filter	STI	STI15-9912	N/A	May 31, 2025
15	Positioning Controller	MF	MF-7802	N/A	N/A
16	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Maximum Output Power & Power Spectral Density & Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	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.

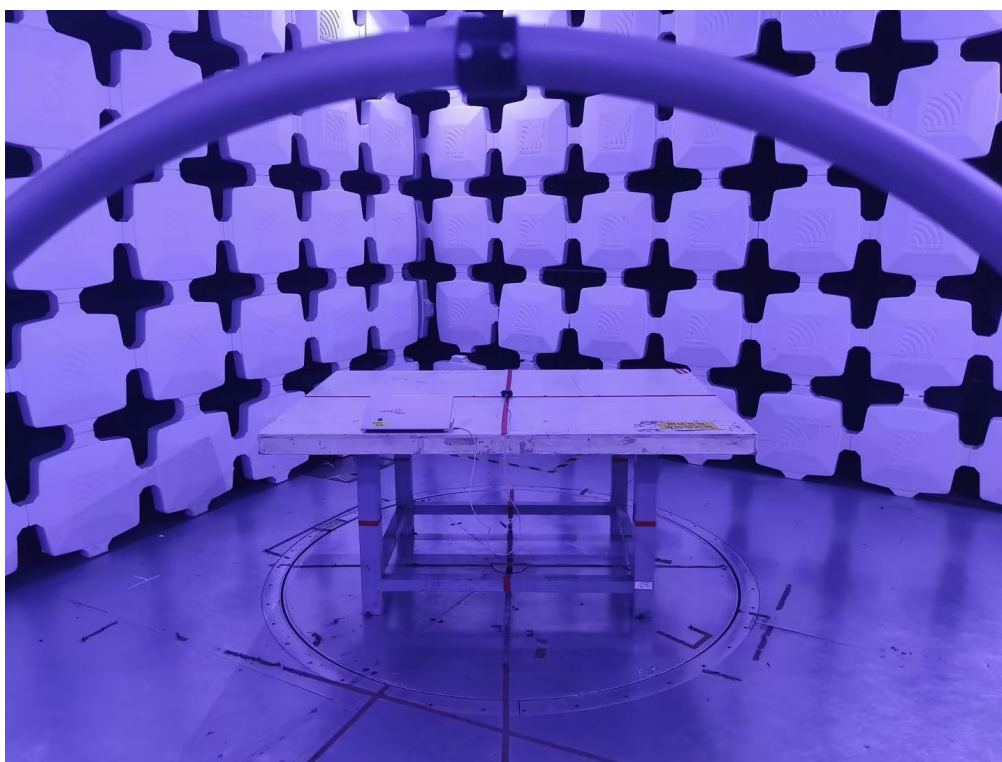
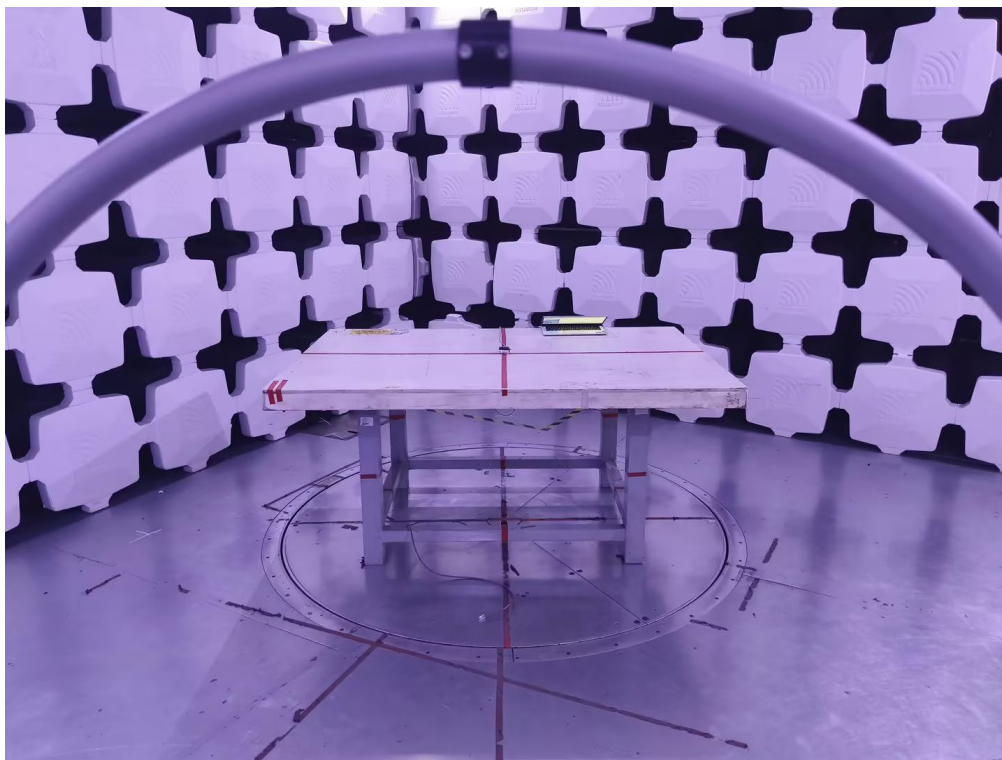
## 11. EUT TEST PHOTO

### AC Power Line Conducted Emissions Test Photos



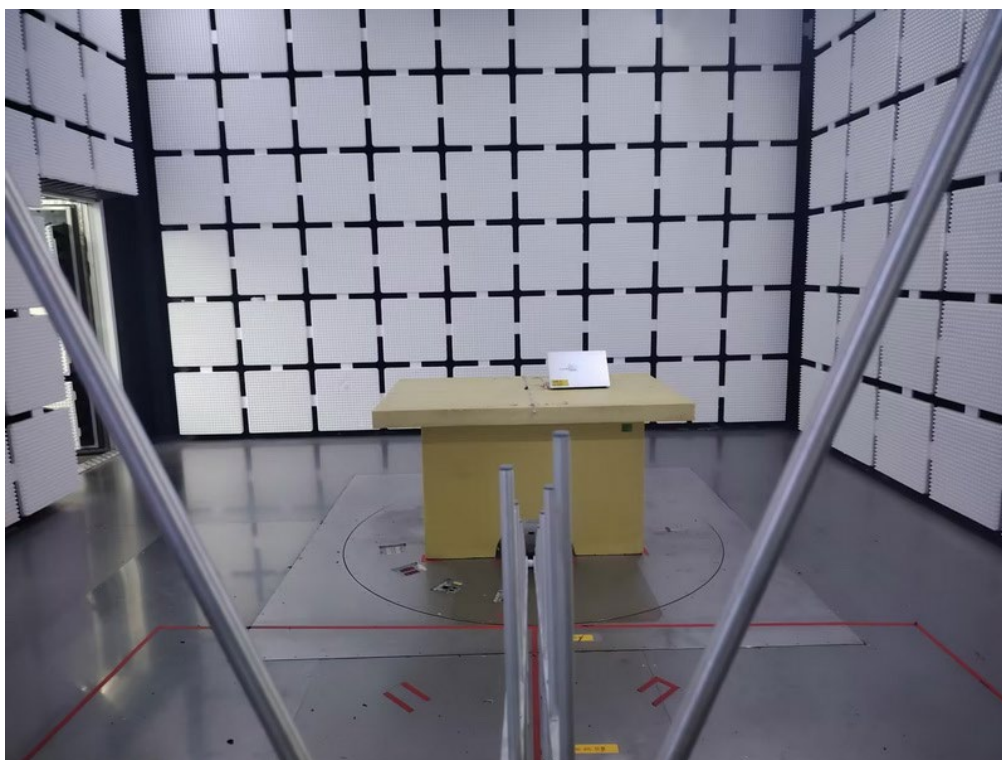
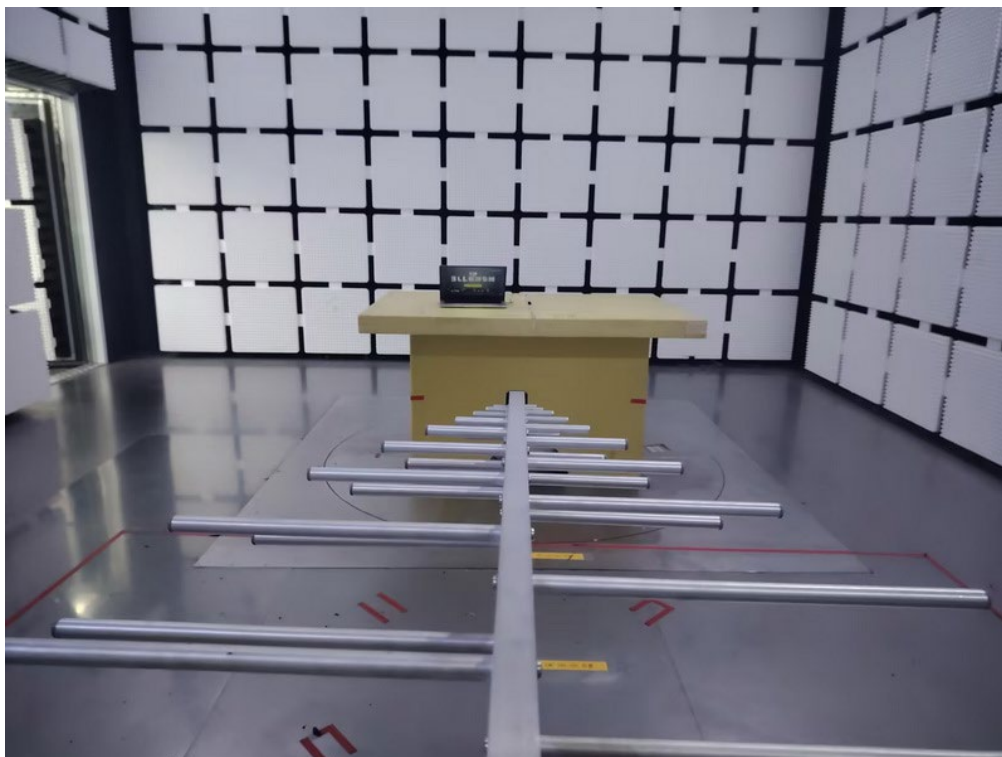
# Radiated Emissions Test Photos

9 kHz to 30 MHz



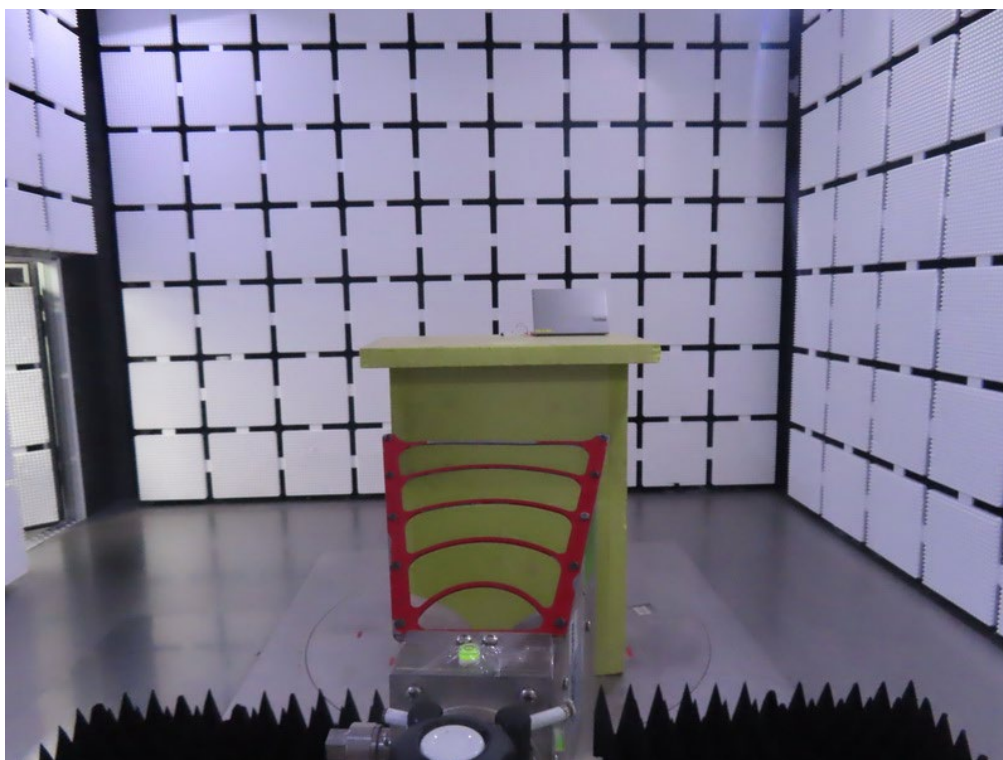
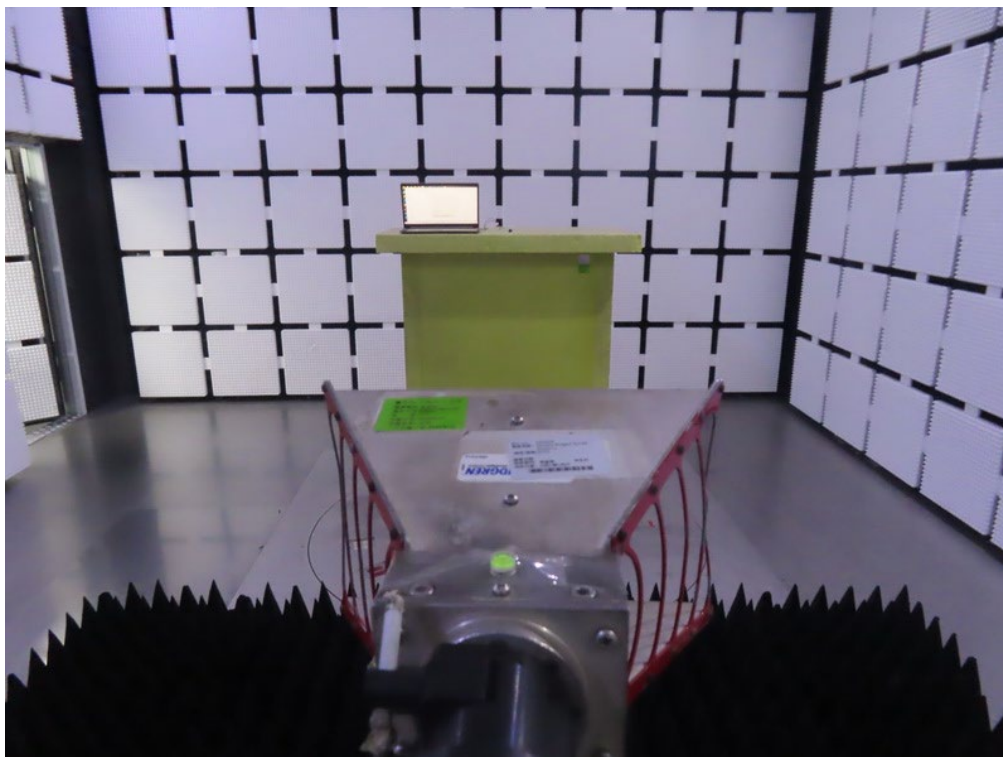
# Radiated Emissions Test Photos

30 MHz to 1000 MHz



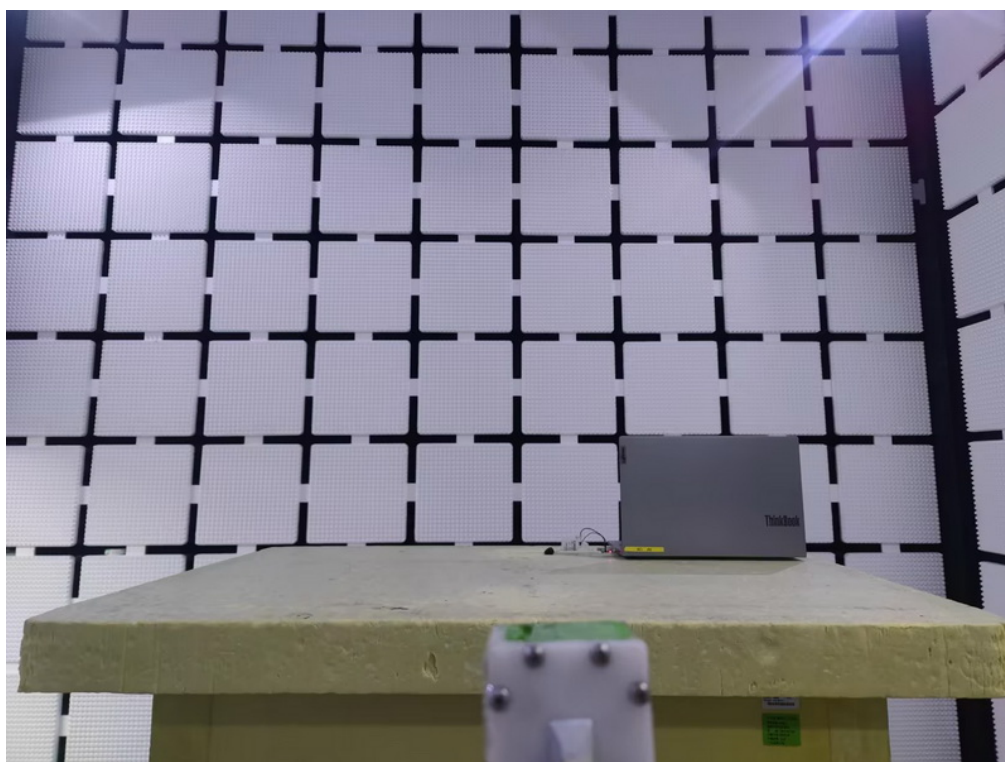
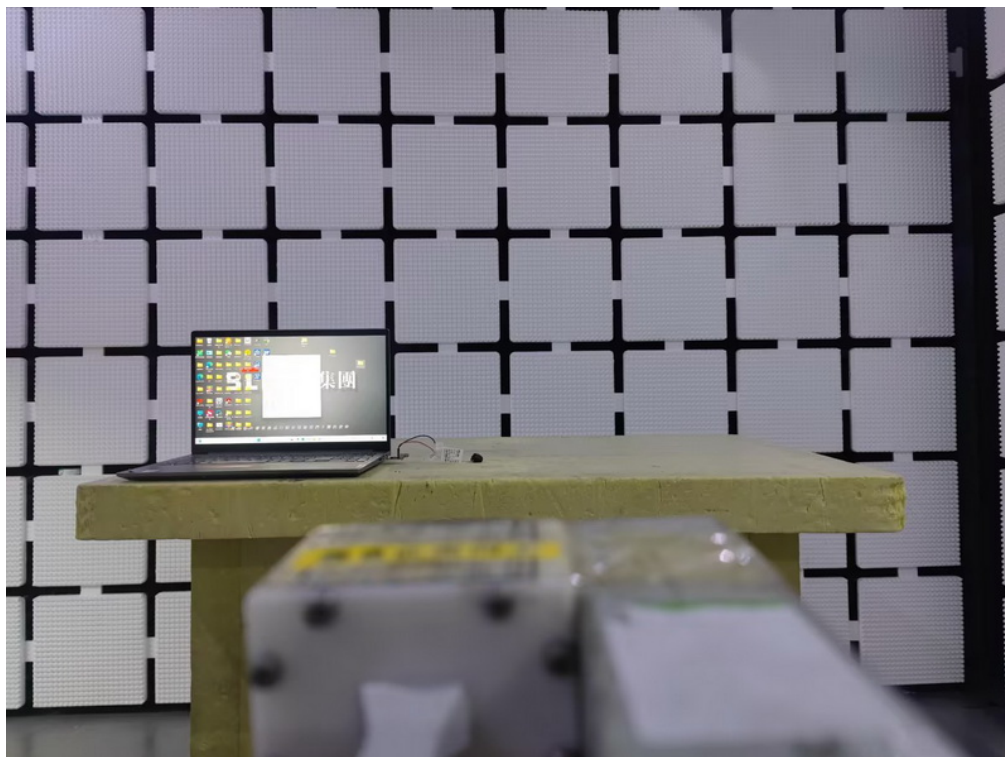
### Radiated Emissions Test Photos

Above 1 GHz\_Band edge & Harmonic (1 GHz to 18 GHz)

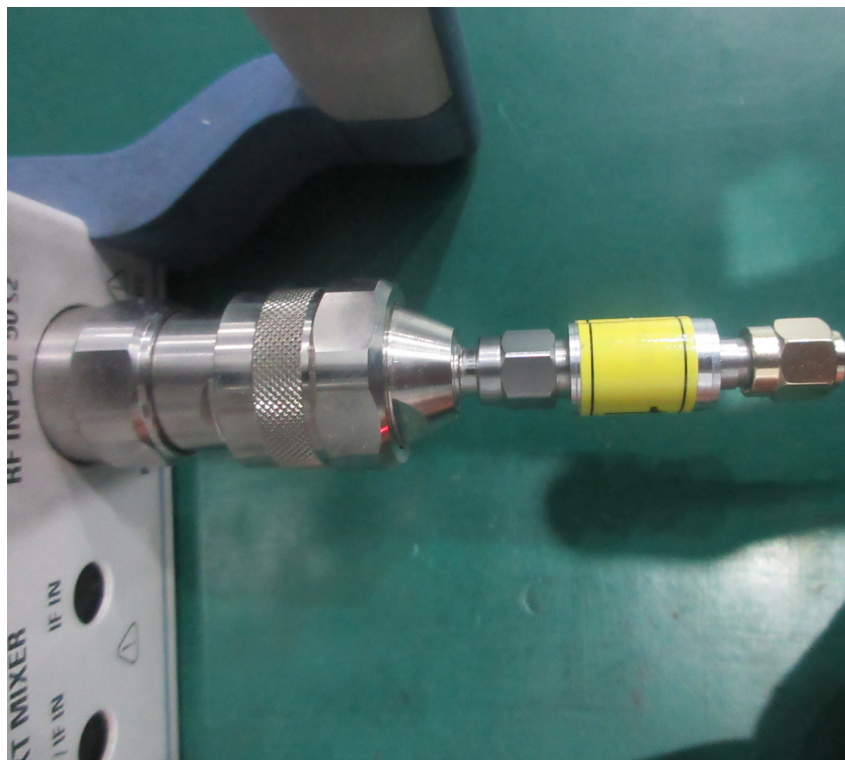
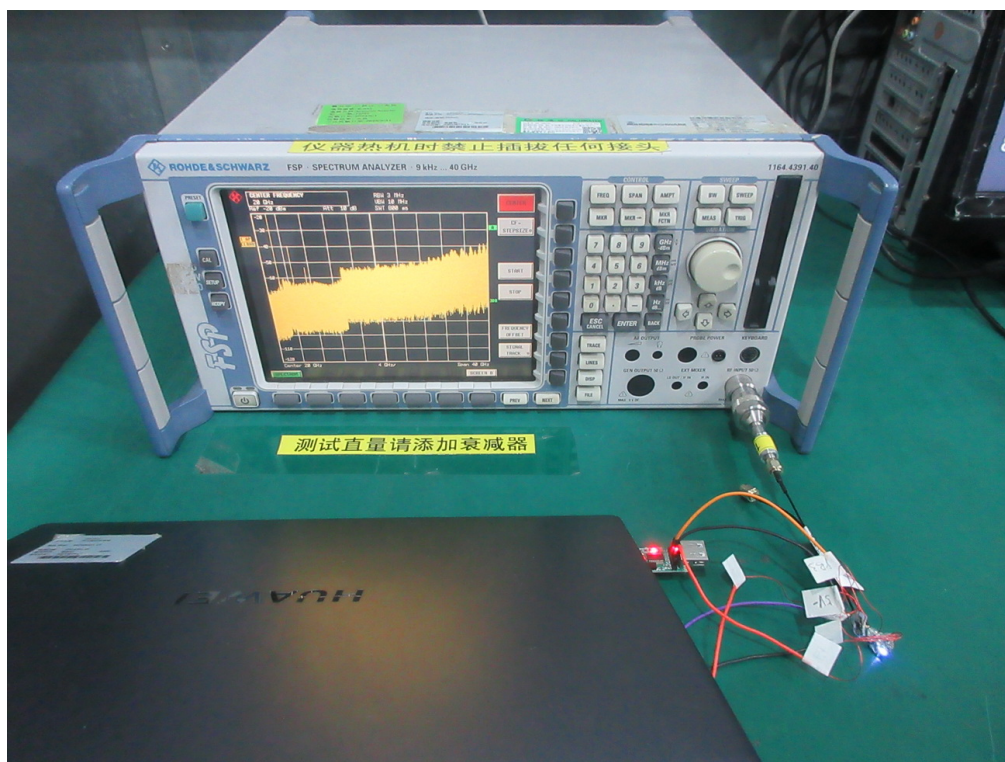


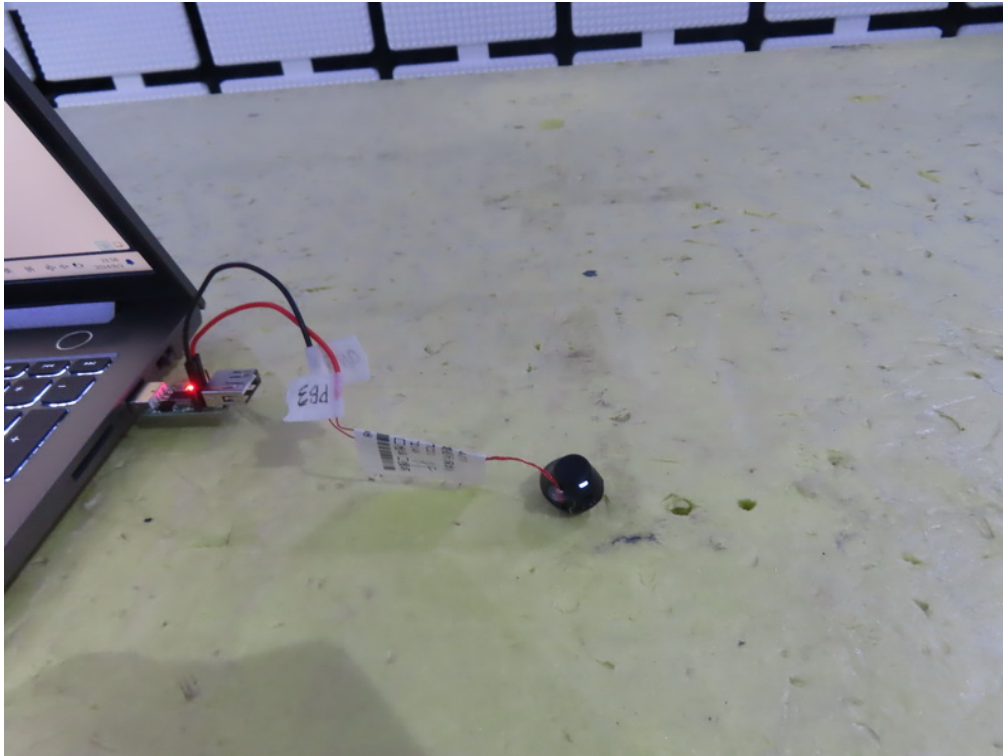
# Radiated Emissions Test Photos

Above 1 GHz\_Harmonic (18 GHz to 26.5 GHz)



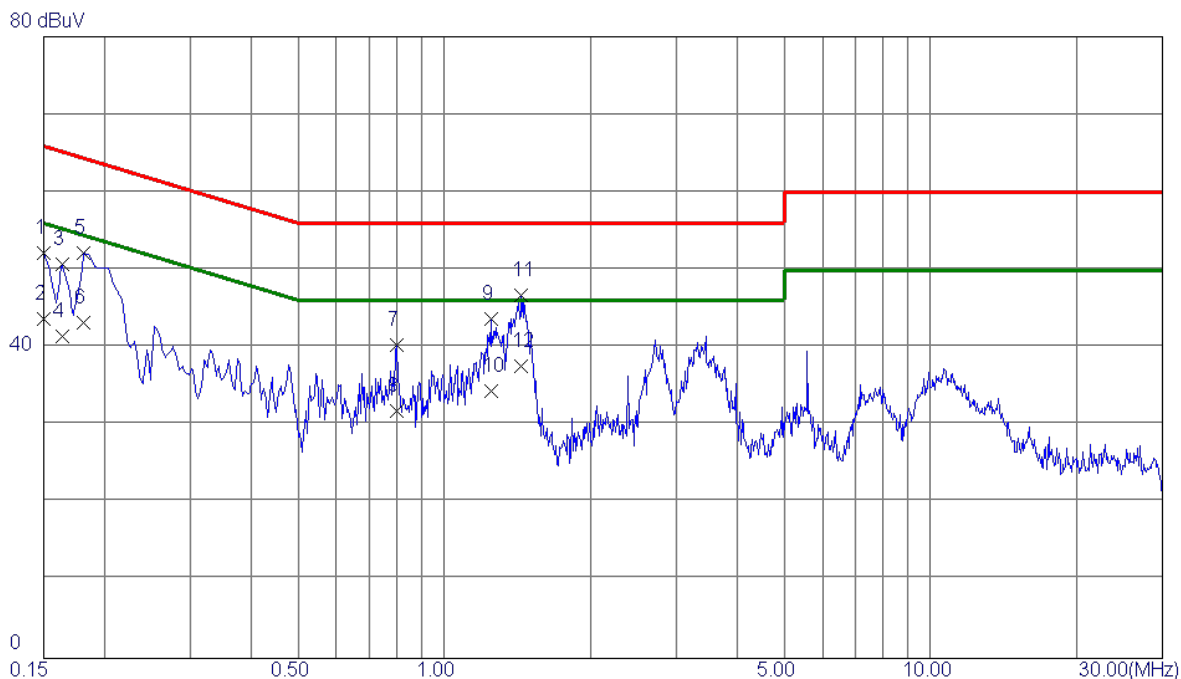
## Conducted Test Photos





## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

Test Mode	TX Mode_1Mbps Channel 19	Phase	Line
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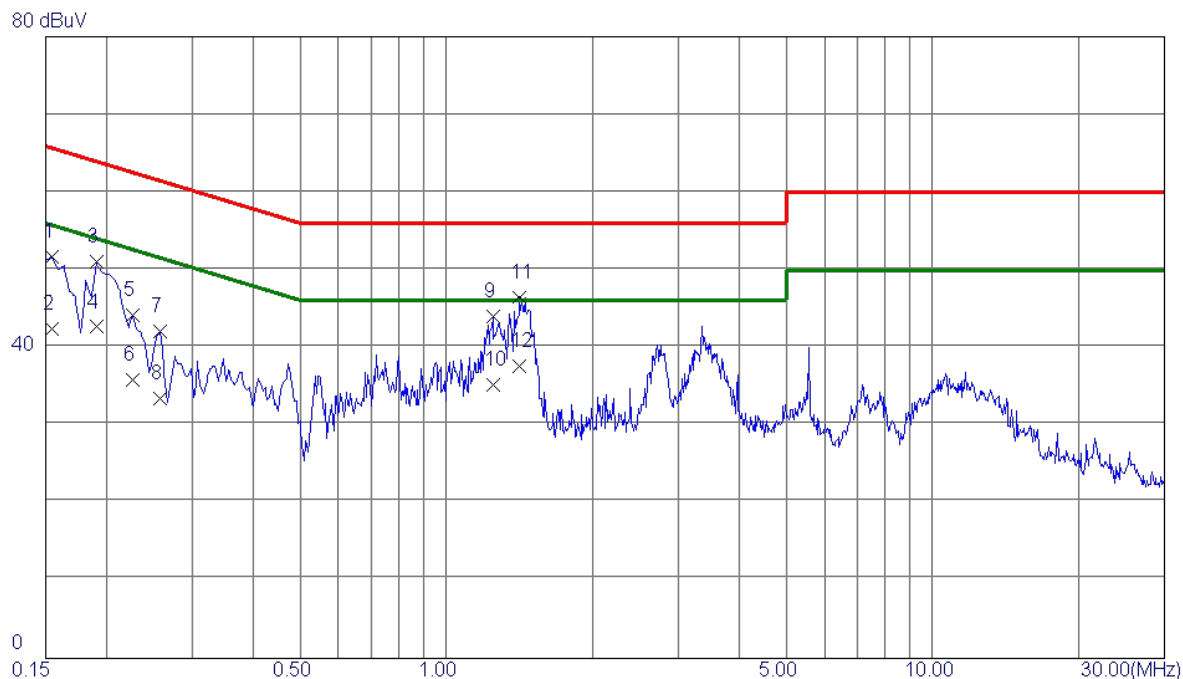


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	42.13	9.96	52.09	66.00	-13.91	QP	
2	0.1500	33.70	9.96	43.66	56.00	-12.34	AVG	
3	0.1635	40.80	9.97	50.77	65.28	-14.51	QP	
4	0.1635	31.40	9.97	41.37	55.28	-13.91	AVG	
5	0.1815	42.26	9.97	52.23	64.42	-12.19	QP	
6	0.1815	33.20	9.97	43.17	54.42	-11.25	AVG	
7	0.7980	29.23	11.11	40.34	56.00	-15.66	QP	
8	0.7980	20.80	11.11	31.91	46.00	-14.09	AVG	
9	1.2480	32.33	11.31	43.64	56.00	-12.36	QP	
10	1.2480	23.10	11.31	34.41	46.00	-11.59	AVG	
11	1.4415	35.52	11.27	46.79	56.00	-9.21	QP	
12 *	1.4415	26.30	11.27	37.57	46.00	-8.43	AVG	

## REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 19	Phase	Neutral
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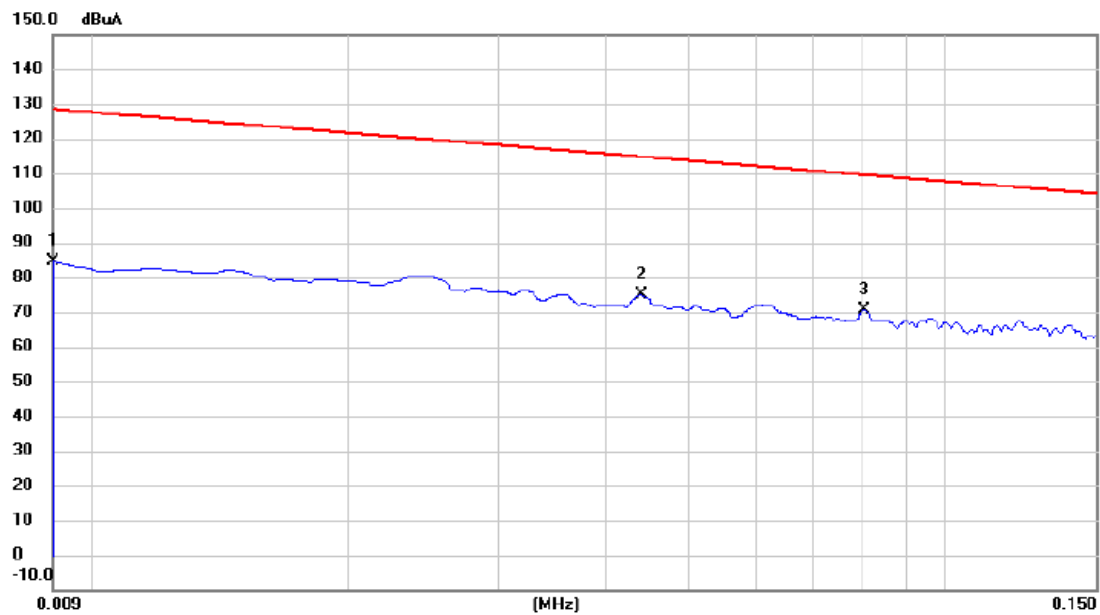
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	41.82	9.93	51.75	65.75	-14.00	QP	
2	0.1545	32.51	9.93	42.44	55.75	-13.31	AVG	
3	0.1905	41.08	9.94	51.02	64.01	-12.99	QP	
4	0.1905	32.70	9.94	42.64	54.01	-11.37	AVG	
5	0.2265	34.23	9.99	44.22	62.58	-18.36	QP	
6	0.2265	25.79	9.99	35.78	52.58	-16.80	AVG	
7	0.2580	32.07	10.04	42.11	61.50	-19.39	QP	
8	0.2580	23.41	10.04	33.45	51.50	-18.05	AVG	
9	1.2480	32.74	11.27	44.01	56.00	-11.99	QP	
10	1.2480	23.90	11.27	35.17	46.00	-10.83	AVG	
11	1.4144	35.25	11.23	46.48	56.00	-9.52	QP	
12 *	1.4144	26.30	11.23	37.53	46.00	-8.47	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_1Mbps Channel 19	Polarization	Ant 0°
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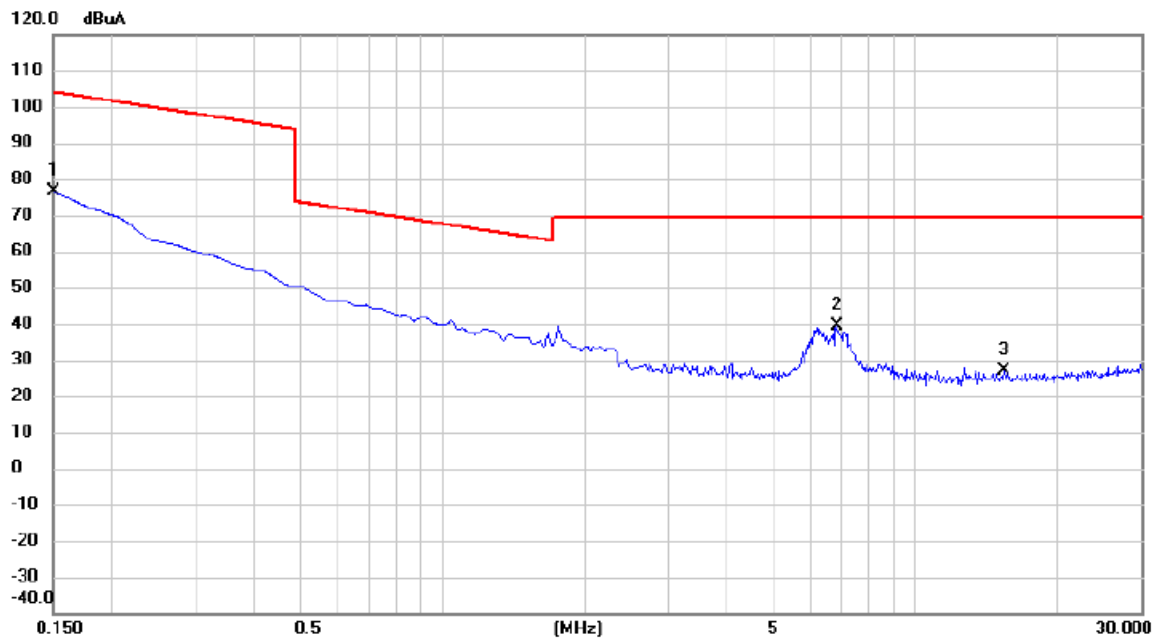


No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.0090	64.40	20.40	84.80	128.52	-43.72	AVG	
2		0.0440	53.66	21.17	74.83	114.74	-39.91	AVG	
3	*	0.0803	49.31	21.30	70.61	109.51	-38.90	AVG	

## REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 19	Polarization	Ant 0°
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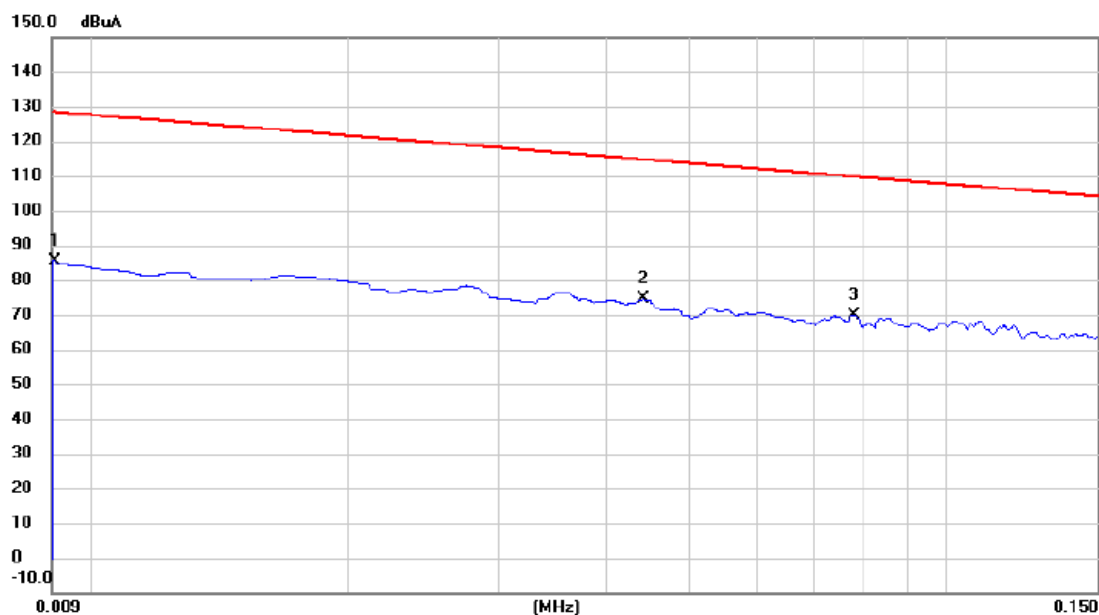


No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1	*	0.1500	55.28	21.27	76.55	104.09	-27.54	AVG	
2		6.8364	18.20	21.19	39.39	69.54	-30.15	QP	
3		15.4332	5.83	21.29	27.12	69.54	-42.42	QP	

## REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 19	Polarization	Ant 90°
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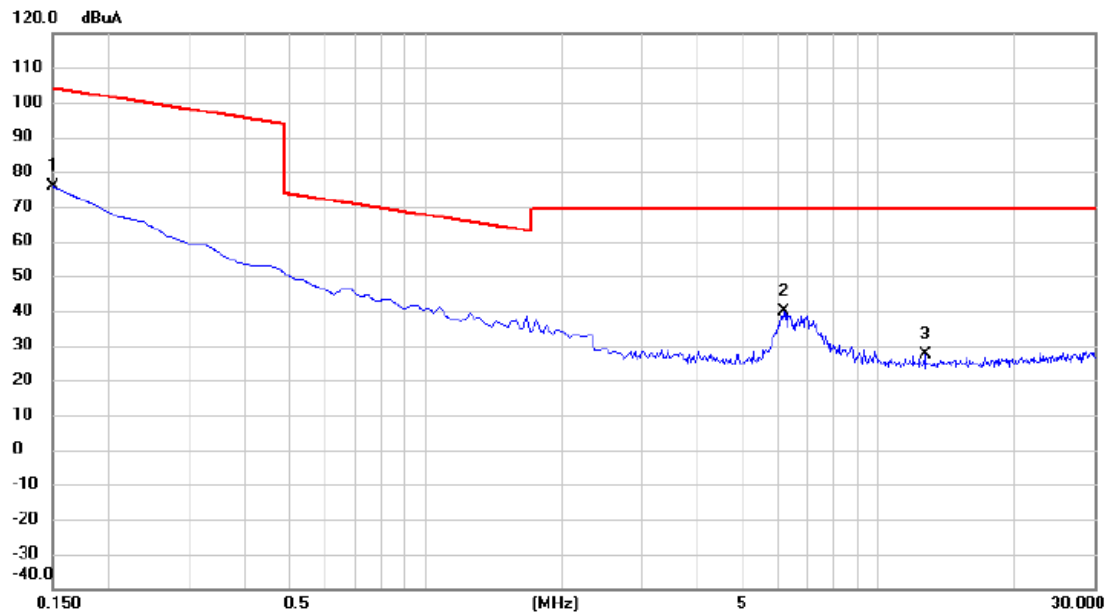
No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1		0.0091	65.14	20.41	85.55	128.42	-42.87	AVG	
2		0.0442	53.25	21.17	74.42	114.70	-40.28	AVG	
3	*	0.0780	48.49	21.29	69.78	109.76	-39.98	AVG	

## REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX Mode_1Mbps Channel 19	Polarization	Ant 90°
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No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Margin dB	Detector	Comment
1	*	0.1500	54.35	21.27	75.62	104.09	-28.47	AVG	
2		6.1797	18.51	21.18	39.69	69.54	-29.85	QP	
3		12.6870	6.02	21.20	27.22	69.54	-42.32	QP	

## REMARKS:

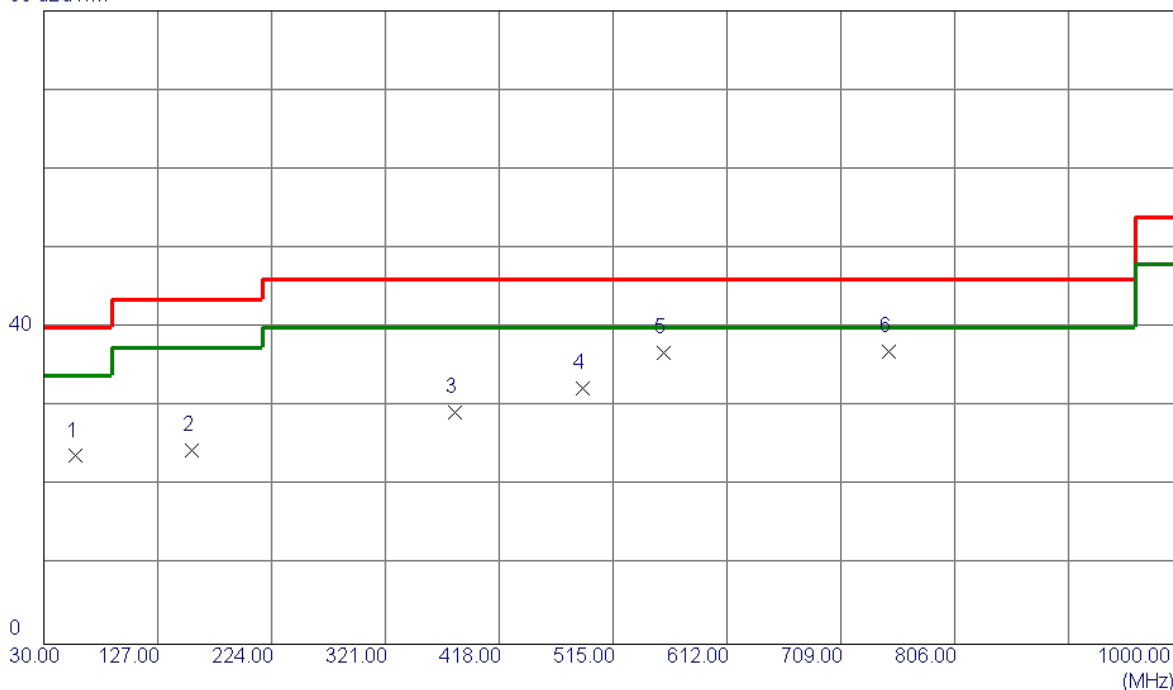
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

Test Mode	TX Mode_1Mbps Channel 19	Polarization	Vertical
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80 dBuV/m

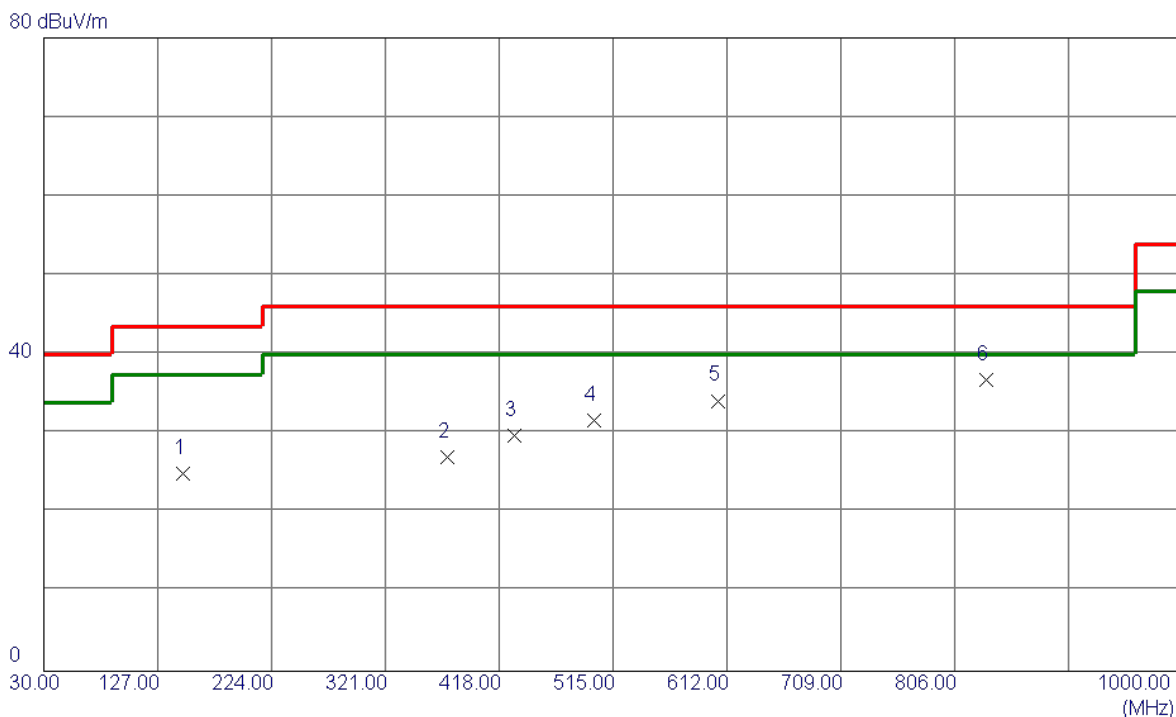


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	56.6750	35.36	-11.60	23.76	40.00	-16.24	Peak	
2	155.6150	35.42	-10.98	24.44	43.52	-19.08	Peak	
3	380.6550	37.90	-8.62	29.28	46.02	-16.74	Peak	
4	488.8100	38.45	-6.19	32.26	46.02	-13.76	Peak	
5	558.1650	41.55	-4.76	36.79	46.02	-9.23	Peak	
6 *	750.2250	38.01	-1.06	36.95	46.02	-9.07	Peak	

## REMARKS:

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

Test Mode	TX Mode_1Mbps Channel 19	Polarization	Horizontal
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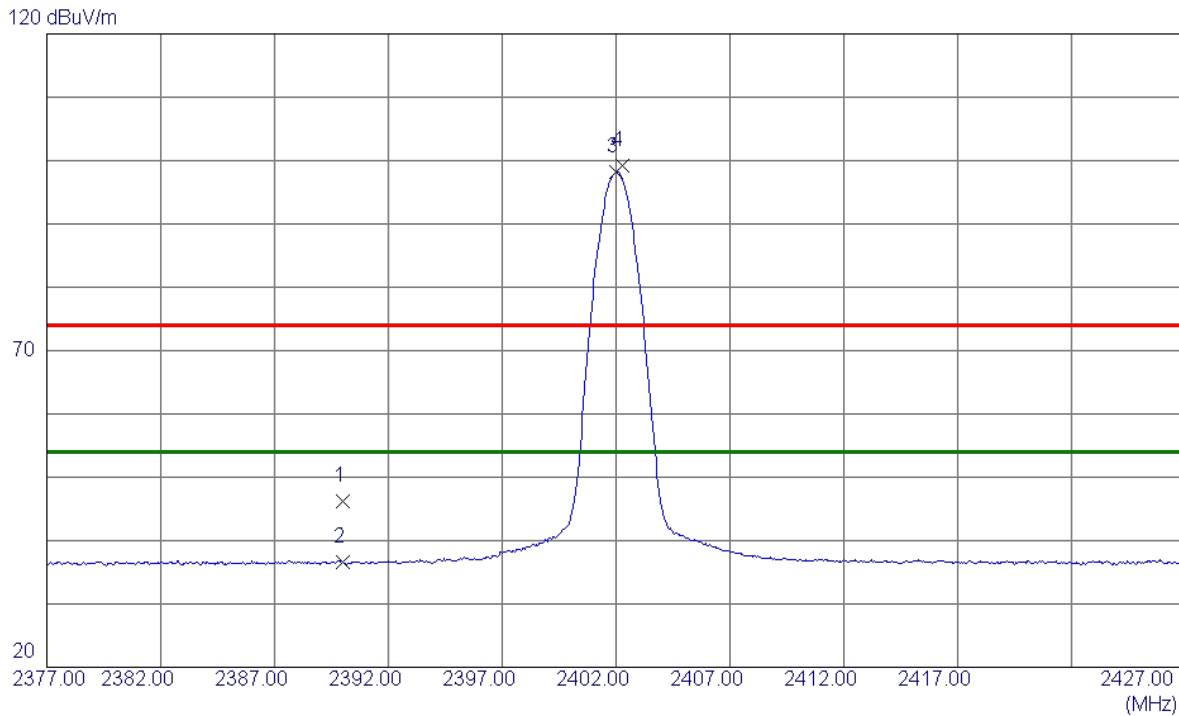
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	148.3400	36.28	-11.25	25.03	43.52	-18.49	Peak	
2	373.8650	35.85	-8.85	27.00	46.02	-19.02	Peak	
3	430.6100	37.03	-7.27	29.76	46.02	-16.26	Peak	
4	498.5100	37.70	-6.04	31.66	46.02	-14.36	Peak	
5	604.2400	37.69	-3.53	34.16	46.02	-11.86	Peak	
6 *	832.6750	37.47	-0.68	36.79	46.02	-9.23	Peak	

## REMARKS:

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

## **APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ**

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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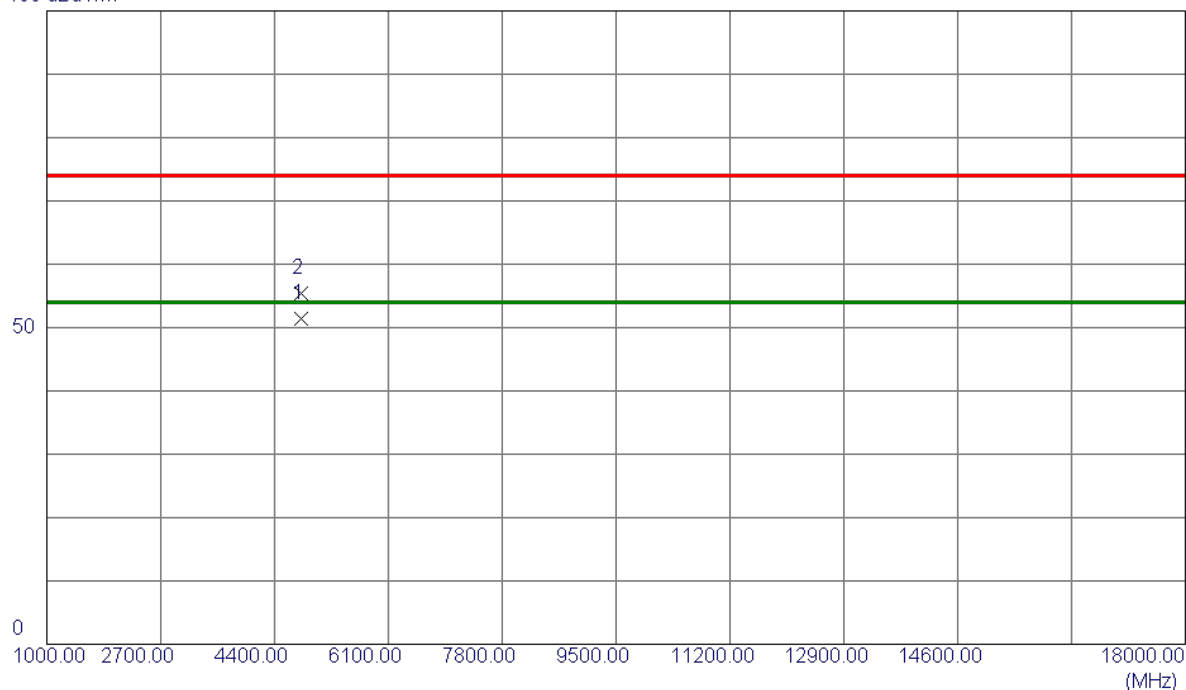
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	38.56	7.70	46.26	74.00	-27.74	Peak	
2	2390.0000	28.84	7.70	36.54	54.00	-17.46	AVG	
3 *	2402.0250	90.46	7.71	98.17	54.00	44.17	AVG	No Limit
4	2402.2500	91.45	7.71	99.16	74.00	25.16	Peak	No Limit

## REMARKS:

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

Test Mode	TX 2402 MHz _CH00_1Mbps	Polarization	Horizontal
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100 dBuV/m



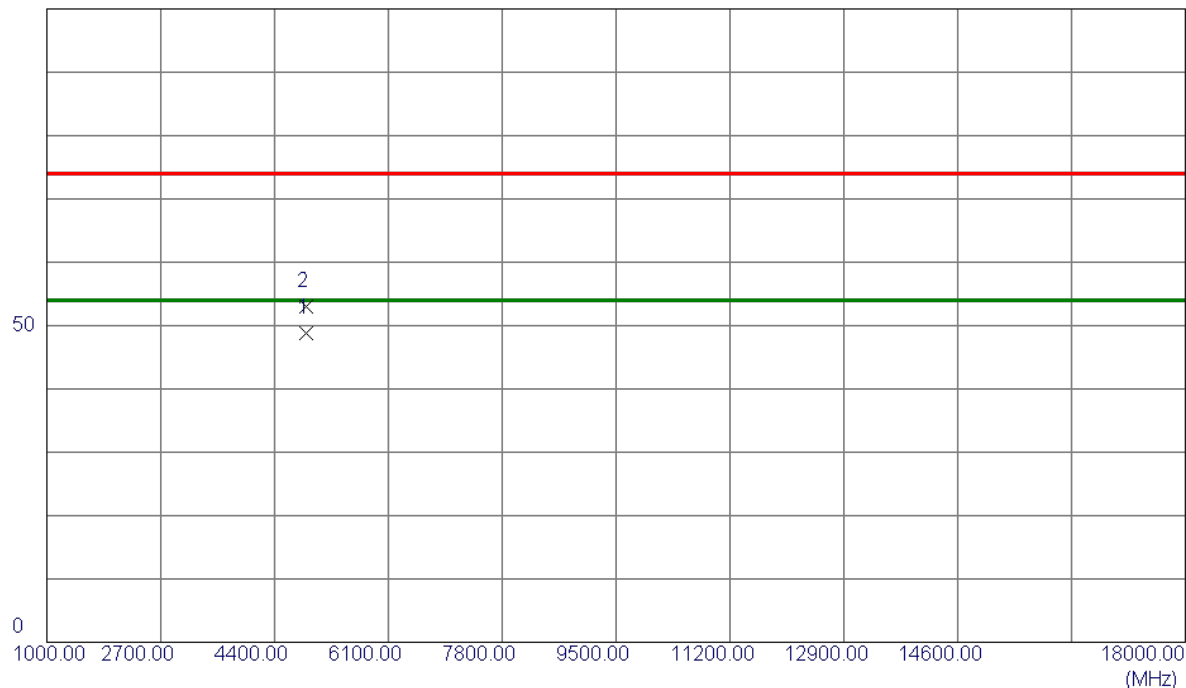
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4804.1000	48.57	2.79	51.36	54.00	-2.64	AVG	
2	4804.2750	52.60	2.79	55.39	74.00	-18.61	Peak	

## REMARKS:

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

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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100 dBuV/m

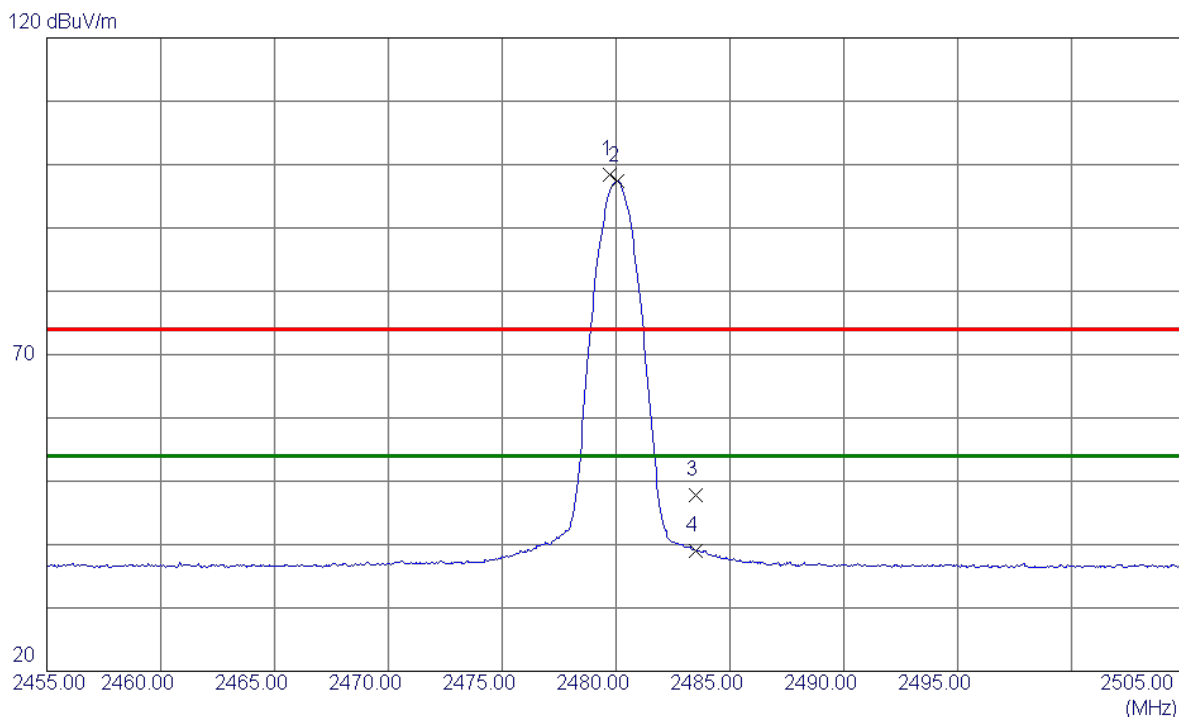


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880.0750	45.86	2.97	48.83	54.00	-5.17	AVG	
2	4880.5500	50.08	2.97	53.05	74.00	-20.95	Peak	

## REMARKS:

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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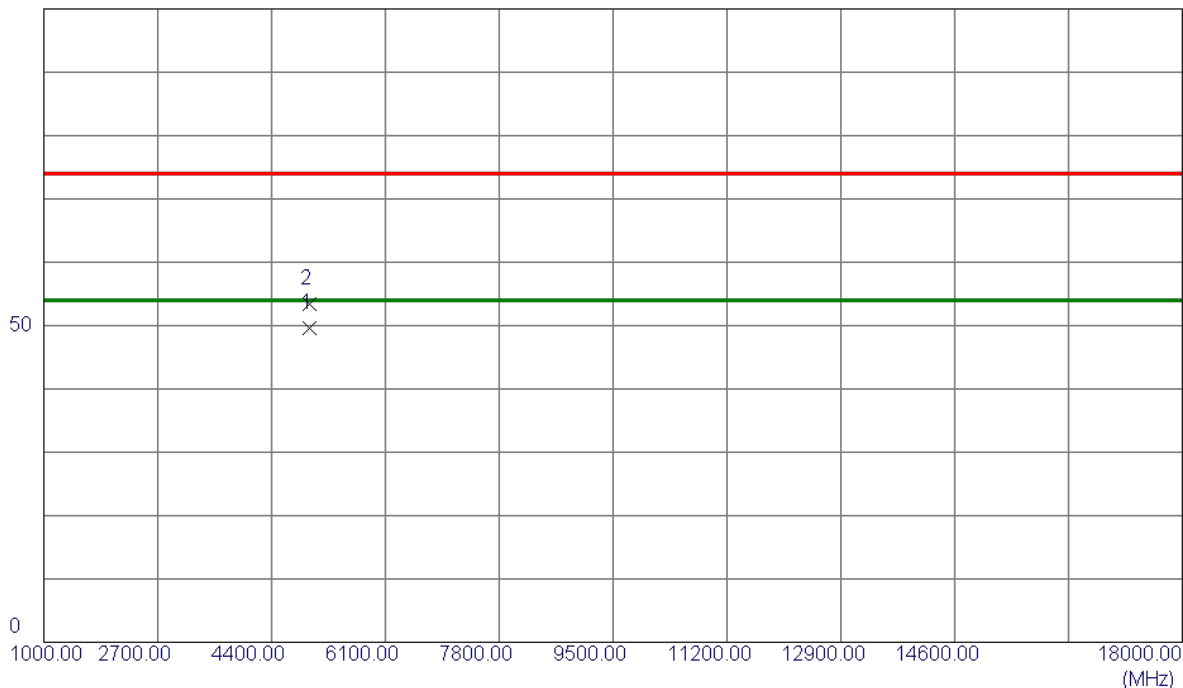
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.7250	90.50	7.81	98.31	74.00	24.31	Peak	No Limit
2 *	2480.0500	89.63	7.81	97.44	54.00	43.44	AVG	No Limit
3	2483.5000	40.07	7.81	47.88	74.00	-26.12	Peak	
4	2483.5000	31.19	7.81	39.00	54.00	-15.00	AVG	

## REMARKS:

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

Test Mode	TX 2480 MHz _CH39_1Mbps	Polarization	Horizontal
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100 dBuV/m

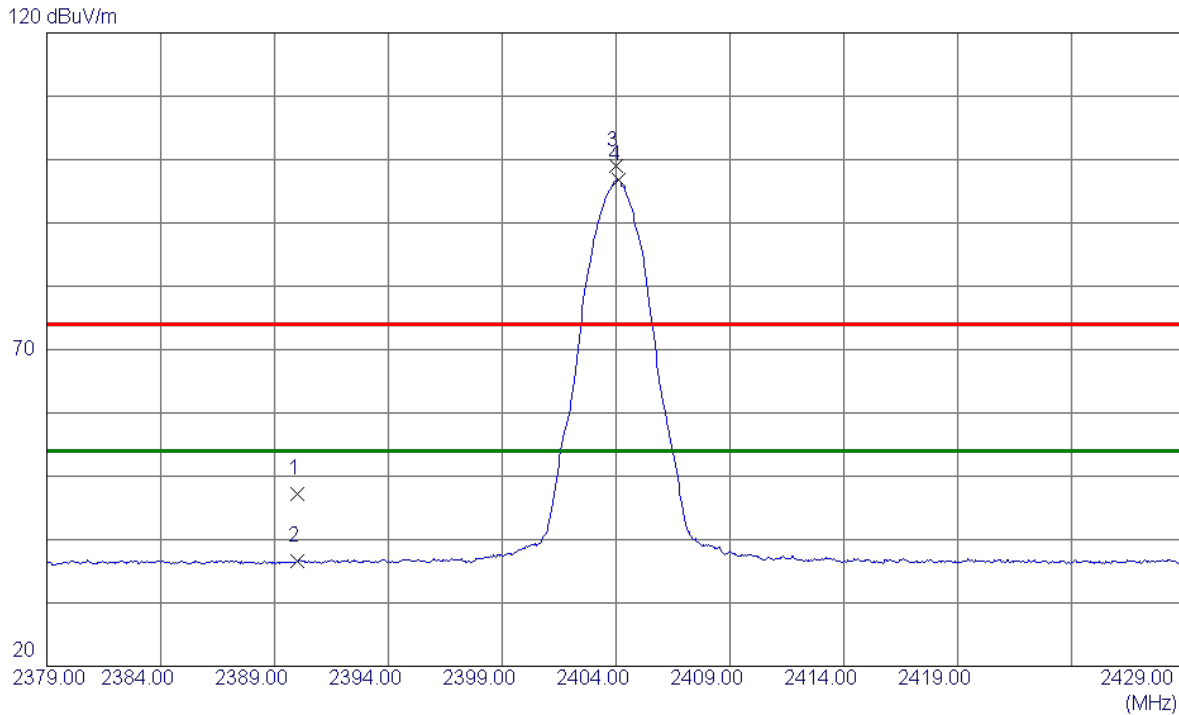


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4960.0250	46.52	3.16	49.68	54.00	-4.32	AVG	
2	4960.4750	50.31	3.16	53.47	74.00	-20.53	Peak	

## REMARKS:

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

Test Mode	TX 2404 MHz _CH01_2Mbps	Polarization	Horizontal
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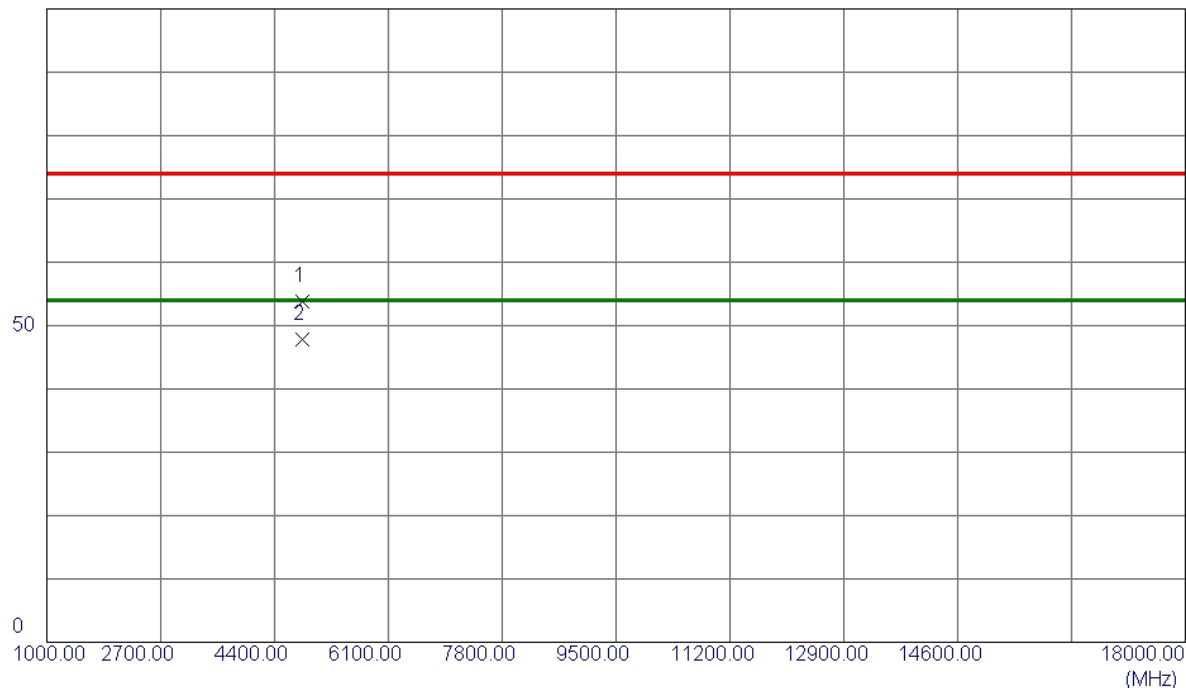
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.46	7.70	47.16	74.00	-26.84	Peak	
2	2390.0000	28.85	7.70	36.55	54.00	-17.45	AVG	
3	2404.0250	91.39	7.71	99.10	74.00	25.10	Peak	No Limit
4 *	2404.1000	89.05	7.71	96.76	54.00	42.76	AVG	No Limit

## REMARKS:

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

Test Mode	TX 2404 MHz _CH01_2Mbps	Polarization	Horizontal
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100 dBuV/m



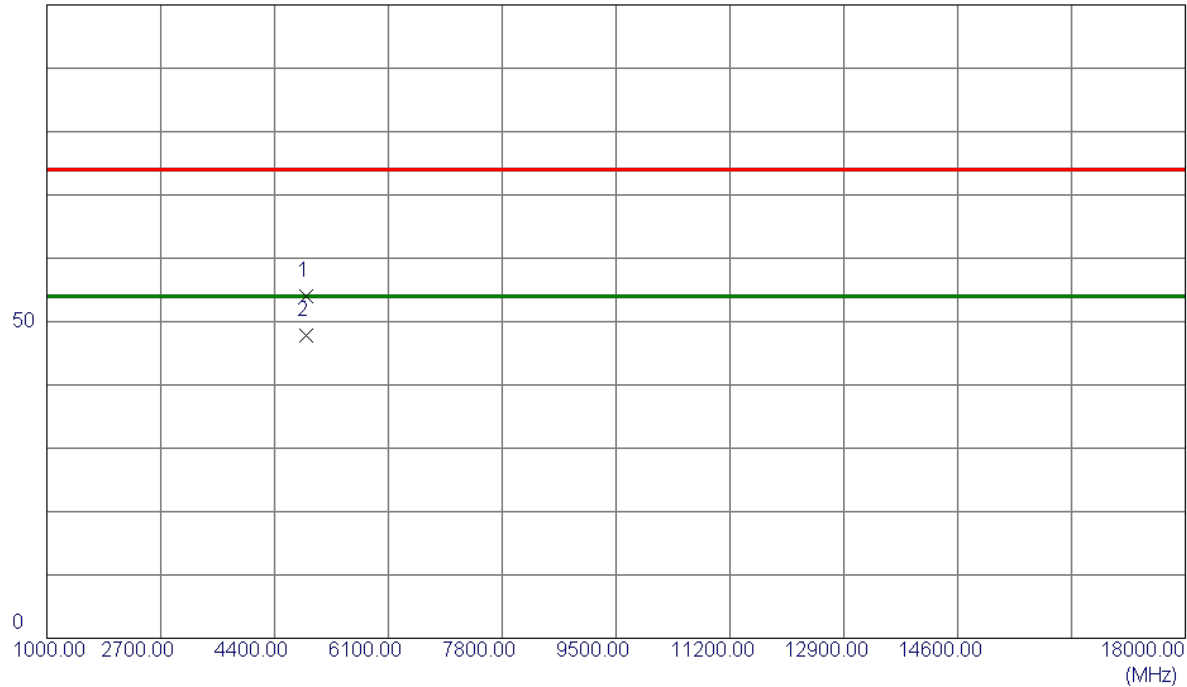
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4808.0750	51.09	2.80	53.89	74.00	-20.11	Peak	
2 *	4808.8750	45.01	2.80	47.81	54.00	-6.19	AVG	

## REMARKS:

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

Test Mode	TX 2440 MHz _CH19_2Mbps	Polarization	Horizontal
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100 dBuV/m

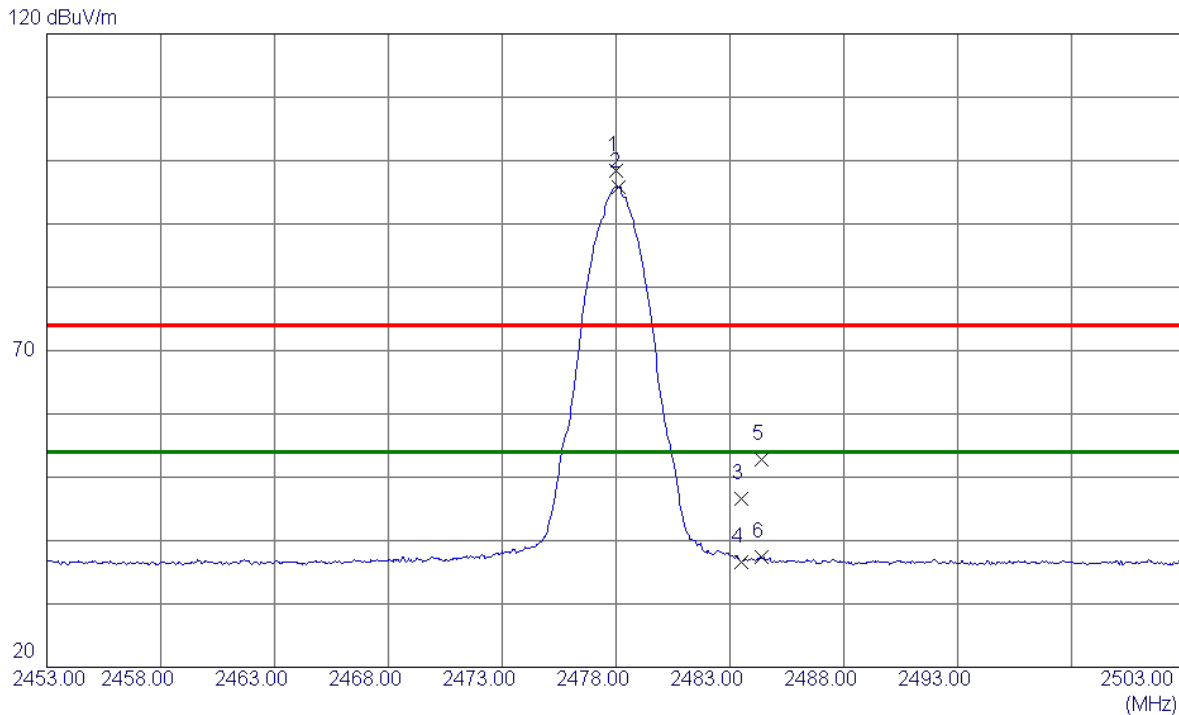


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4879.1000	51.00	2.97	53.97	74.00	-20.03	Peak	
2 *	4880.8000	44.76	2.97	47.73	54.00	-6.27	AVG	

#### REMARKS:

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

Test Mode	TX 2478 MHz _CH38_2Mbps	Polarization	Horizontal
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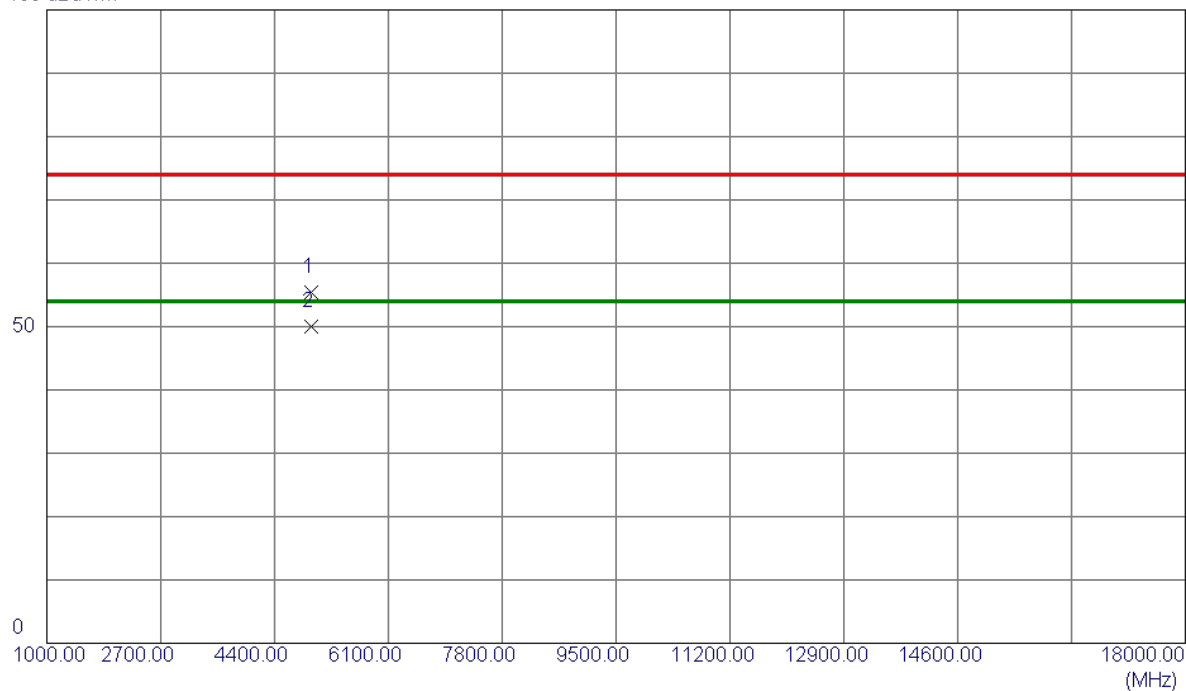
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2478.0000	90.65	7.80	98.45	74.00	24.45	Peak	No Limit
2 *	2478.1000	88.09	7.80	95.89	54.00	41.89	AVG	No Limit
3	2483.5000	38.88	7.81	46.69	74.00	-27.31	Peak	
4	2483.5000	28.77	7.81	36.58	54.00	-17.42	AVG	
5	2484.3750	44.98	7.81	52.79	74.00	-21.21	Peak	
6	2484.3750	29.62	7.81	37.43	54.00	-16.57	AVG	

## REMARKS:

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

Test Mode	TX 2478 MHz _CH38_2Mbps	Polarization	Horizontal
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100 dBuV/m

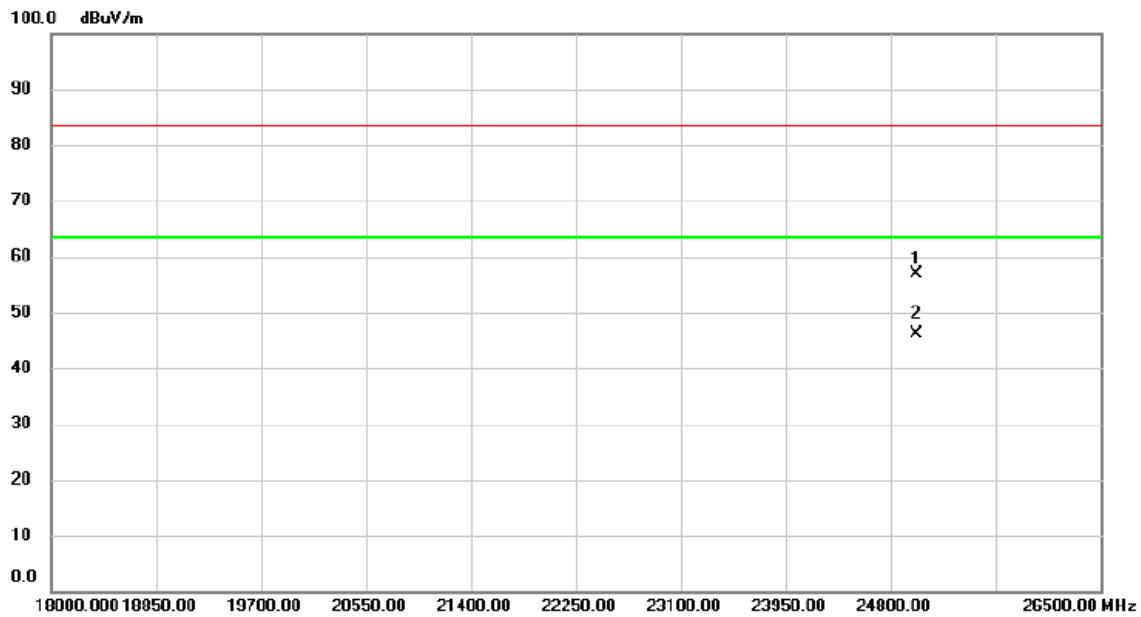


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4955.0250	52.33	3.15	55.48	74.00	-18.52	Peak	
2 *	4956.6250	46.81	3.15	49.96	54.00	-4.04	AVG	

## REMARKS:

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

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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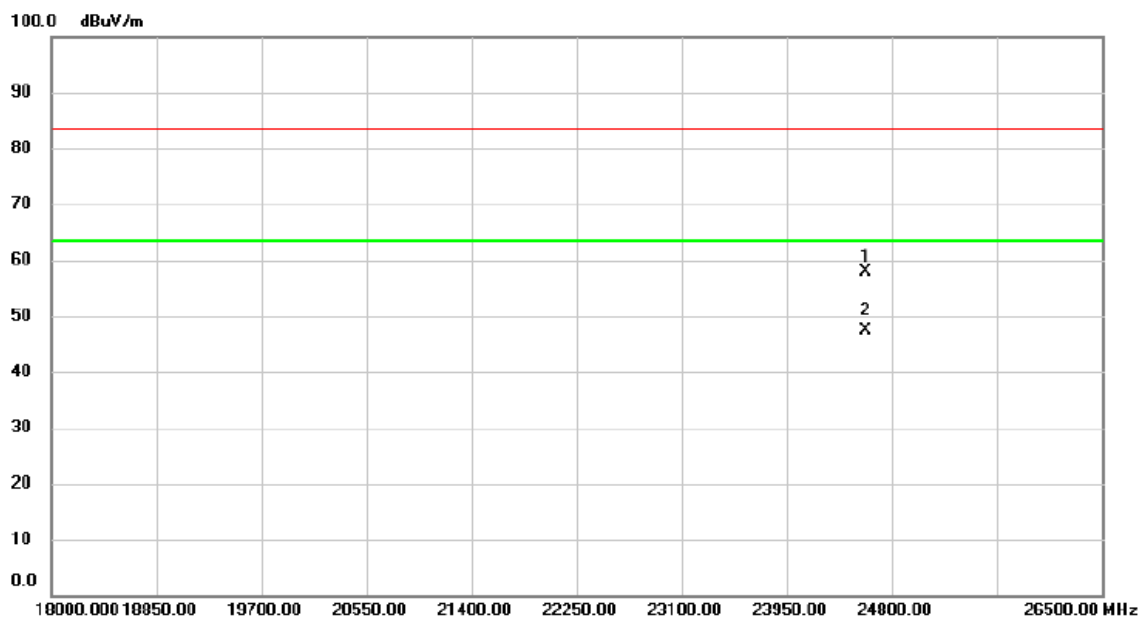


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		25012.500	45.00	11.86	56.86	83.50	-26.64	peak	
2	*	25012.500	34.15	11.86	46.01	63.50	-17.49	AVG	

## REMARKS:

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

Test Mode	TX 2440 MHz _CH19_1Mbps	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		24587.500	46.48	11.33	57.81	83.50	-25.69	peak	
2	*	24587.500	36.17	11.33	47.50	63.50	-16.00	AVG	

## REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

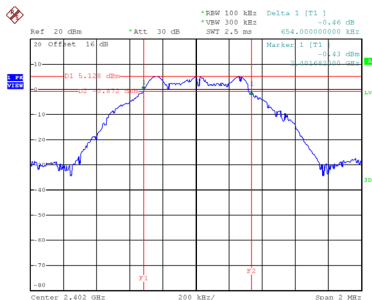
(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX E - BANDWIDTH**

Test Mode	TX Mode_1Mbps
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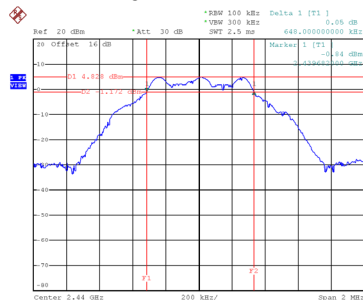
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
00	2402	0.654	0.972	0.5	Pass
19	2440	0.648	0.976	0.5	Pass
39	2480	0.653	0.976	0.5	Pass

CH00



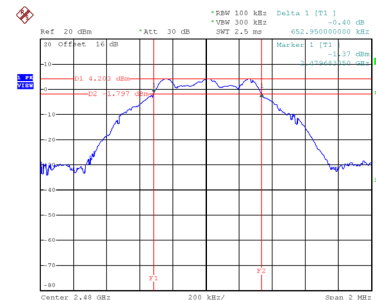
Date: 9.AUG.2024 17:20:38

**CH19**  
6 dB Bandwidth



Date: 9.AUG.2024 17:24:15

## CH39



Date: 9.AUG.2024 17:26:08

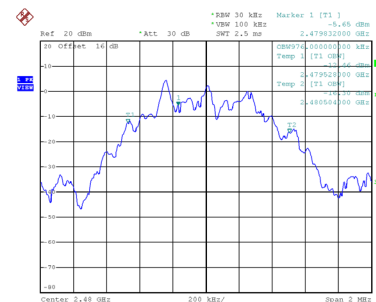
99 % Occupied Bandwidth



Date: 9.AUG.2024 17:20:00



Date: 9.AUG.2024 17:24:20

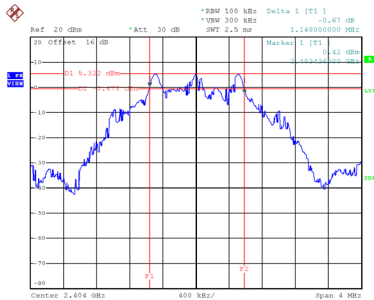


Date: 9.AUG.2024 17:26:14

Test Mode	TX Mode _2Mbps
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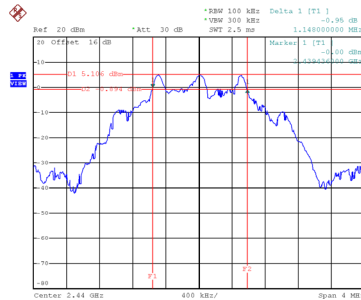
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
01	2404	1.148	1.912	0.5	Pass
19	2440	1.148	1.912	0.5	Pass
38	2478	1.156	1.920	0.5	Pass

CH01



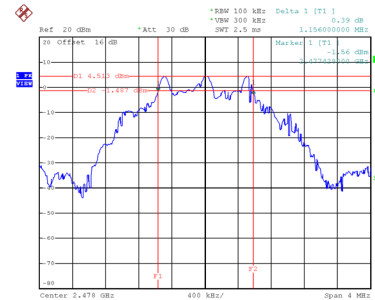
Date: 9.AUG.2024 18:57:24

CH19  
6 dB Bandwidth



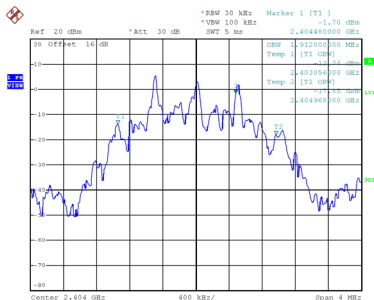
Date: 9.AUG.2024 19:00:51

CH38

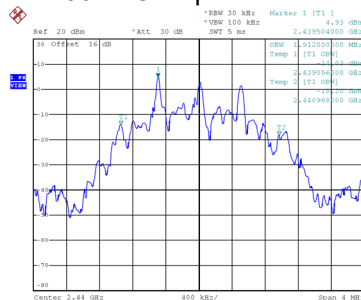


Date: 9.AUG.2024 19:06:01

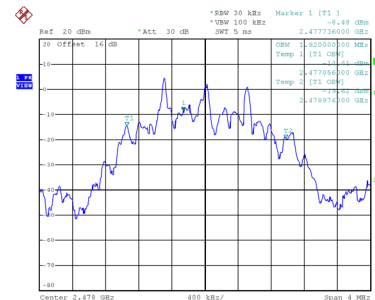
99 % Occupied Bandwidth



Date: 9.AUG.2024 18:56:44



Date: 9.AUG.2024 19:00:57



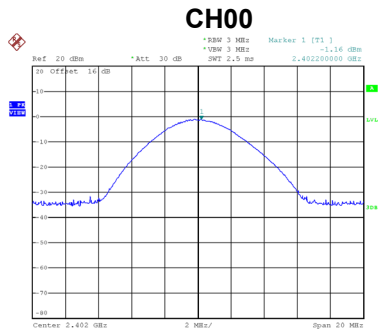
Date: 9.AUG.2024 19:06:07

## **APPENDIX F - MAXIMUM OUTPUT POWER**

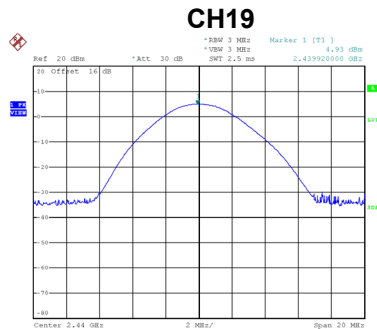
Test Mode	TX Mode _1Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	-1.16	0.0008	30.00	1.0000	Pass
2440	4.93	0.0031	30.00	1.0000	Pass
2480	0.33	0.0011	30.00	1.0000	Pass

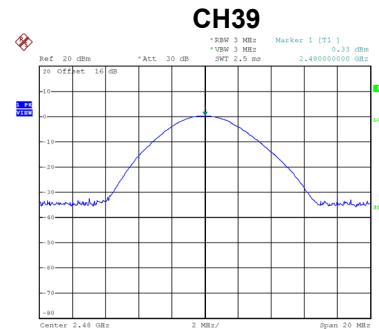
Note: Output power = Measure result + Cable loss



Date: 13.AUG.2024 11:32:32



Date: 9.AUG.2024 17:18:14

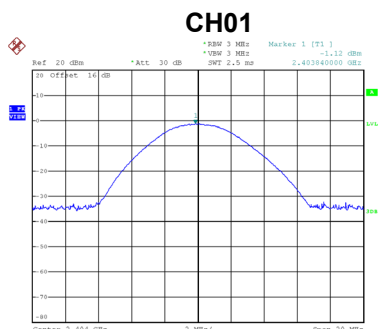


Date: 13.AUG.2024 11:33:02

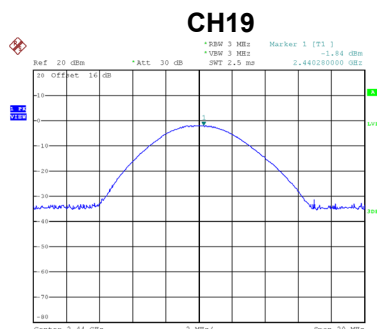
Test Mode	TX Mode _2Mbps
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Frequency (MHz)	Output Power (dBm)	Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2404	-1.12	0.0008	30.00	1.0000	Pass
2440	-1.84	0.0007	30.00	1.0000	Pass
2478	0.43	0.0011	30.00	1.0000	Pass

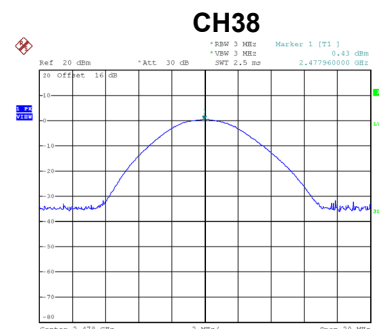
Note: Output power = Measure result + Cable loss



Date: 13.AUG.2024 11:33:51



Date: 13.AUG.2024 11:34:25

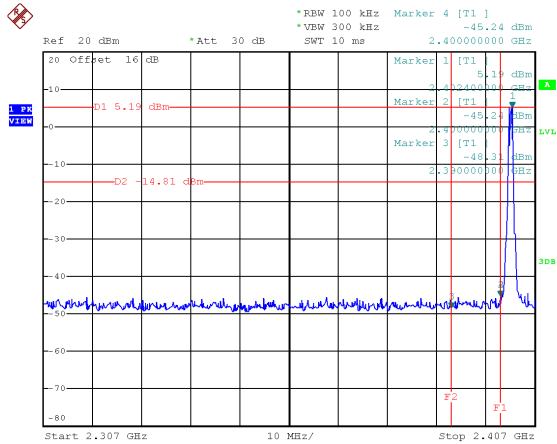


Date: 13.AUG.2024 11:35:02

## **APPENDIX G - CONDUCTED SPURIOUS EMISSION**

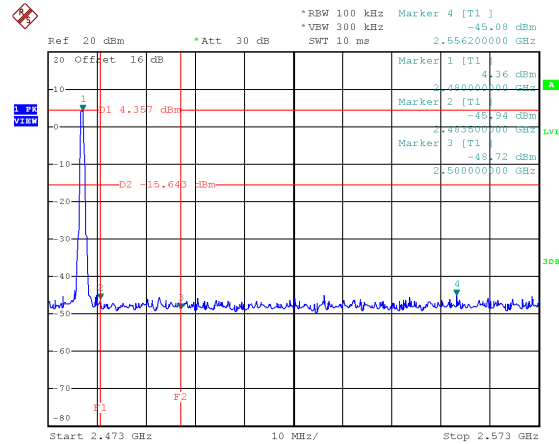
Test Mode TX Mode\_1Mbps

## Bandedge CH00 (Lower)



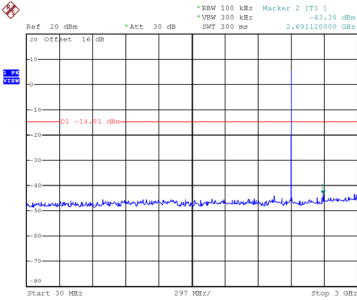
Date: 9.AUG.2024 17:21:02

## Bandedge CH39 (Upper)

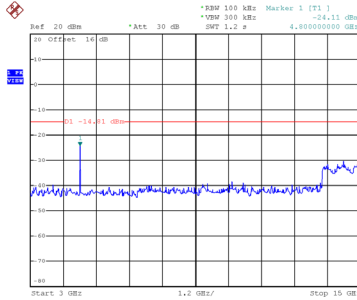


Date: 9.AUG.2024 17:27:48

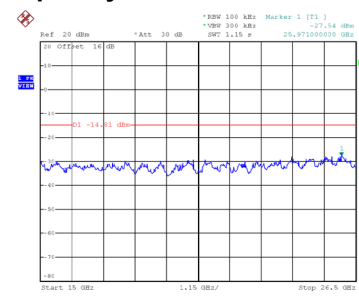
## CH00 – 10th Harmonic of the fundamental frequency



Date: 9.AUG.2024 17:22:03

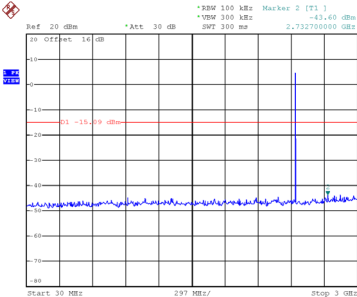


Date: 9.AUG.2024 17:23:15

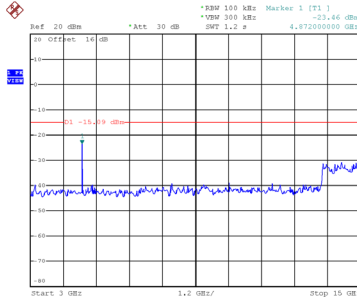


Date: 9.AUG.2024 17:22:17

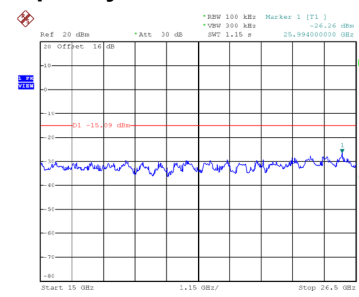
## CH19 – 10th Harmonic of the fundamental frequency



Date: 9.AUG.2024 17:24:58

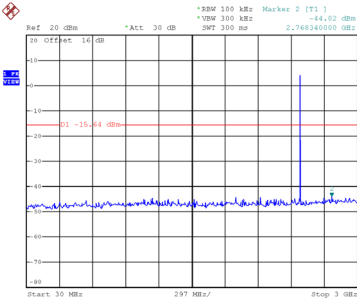


Date: 9.AUG.2024 17:25:05

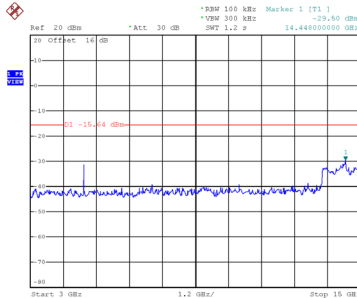


Date: 9.AUG.2024 17:25:12

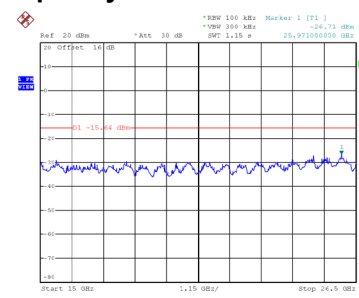
## CH39 – 10th Harmonic of the fundamental frequency



Date: 9.AUG.2024 17:28:01



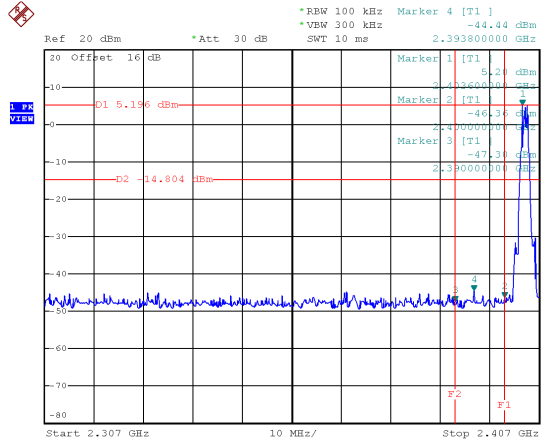
Date: 9.AUG.2024 17:28:08



Date: 9.AUG.2024 17:28:15

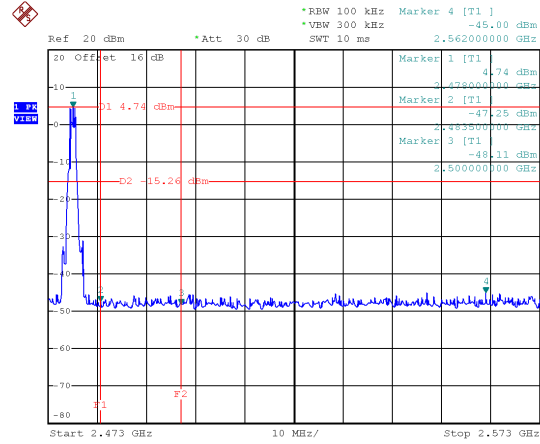
Test Mode TX Mode\_2Mbps

## Bandedge CH01 (Lower)



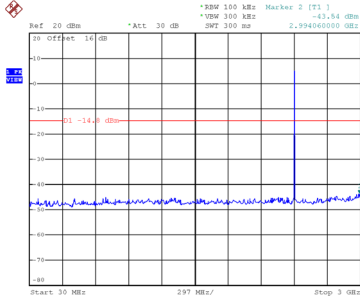
Date: 9.AUG.2024 18:59:16

## Bandedge CH38 (Upper)

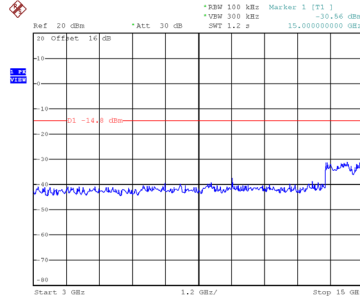


Date: 9.AUG.2024 19:06:46

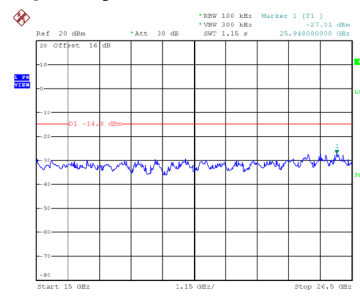
## CH01 – 10th Harmonic of the fundamental frequency



Date: 9.AUG.2024 18:59:30

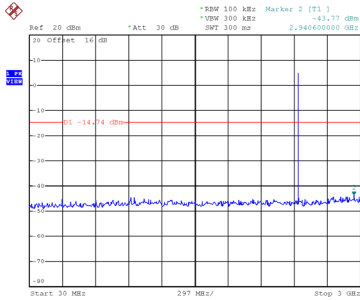


Date: 9.AUG.2024 18:59:37

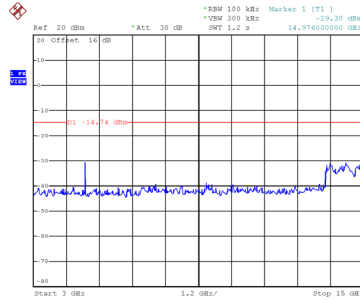


Date: 9.AUG.2024 18:59:44

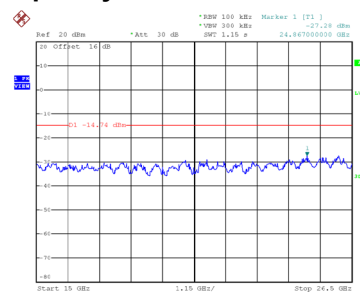
## CH19 – 10th Harmonic of the fundamental frequency



Date: 9.AUG.2024 19:01:34

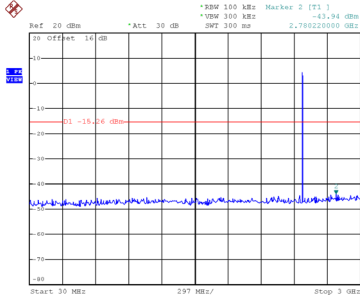


Date: 9.AUG.2024 19:01:41

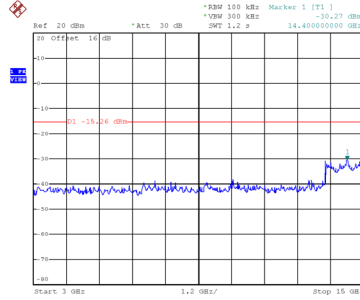


Date: 9.AUG.2024 19:01:49

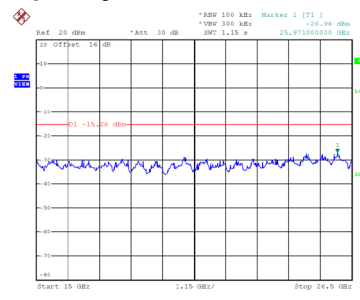
## CH38 – 10th Harmonic of the fundamental frequency



Date: 9.AUG.2024 19:06:59



Date: 9.AUG.2024 19:07:07



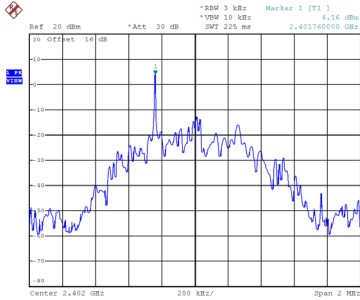
Date: 9.AUG.2024 19:07:14

## **APPENDIX H - POWER SPECTRAL DENSITY**

Test Mode	TX Mode _1Mbps
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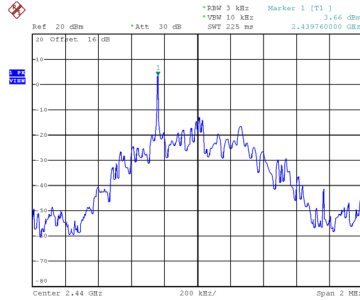
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
00	2402	4.16	8.00	Pass
19	2440	3.66	8.00	Pass
39	2480	3.24	8.00	Pass

CH00



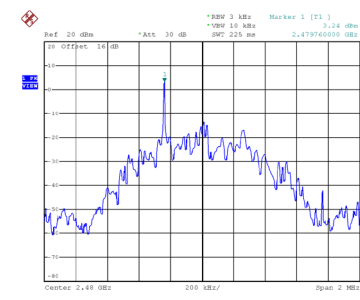
Date: 9.AUG.2024 17:23:20

CH19



Date: 9.AUG.2024 17:25:17

CH39

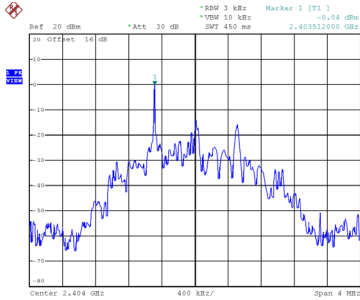


Date: 9.AUG.2024 17:28:21

Test Mode	TX Mode _2Mbps
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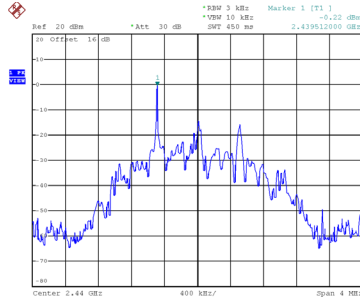
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
01	2404	-0.04	8.00	Pass
19	2440	-0.22	8.00	Pass
38	2478	-0.64	8.00	Pass

CH01



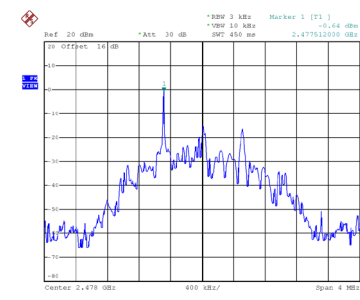
Date: 9.AUG.2024 18:57:30

CH19



Date: 9.AUG.2024 19:01:54

CH38



Date: 9.AUG.2024 19:06:13

End of Test Report