



# FCC Radio Test Report

**FCC ID: 2BQ4V0825CRL**

**This report concerns: Original Grant**

<b>Project No.</b>	:	2506C291
<b>Equipment</b>	:	Ergonomic detachable wireless mechanical keyboard
<b>Brand Name</b>	:	NAYA TECH, Naya Create
<b>Model Name</b>	:	NAYA-800-1(NAYA-CREATE)
<b>Applicant</b>	:	Naya B.V.
<b>Address</b>	:	Wasaweg 3 Groningen, 9723JD, NL
<b>Manufacturer</b>	:	Dongguan Boen Intelligent Technology Co., Ltd.
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<b>Date of Receipt</b>	:	Jun. 20, 2025
<b>Date of Test</b>	:	Jun. 26, 2025 ~ Jul. 22, 2025
<b>Issued Date</b>	:	Aug. 27, 2025
<b>Test Sample</b>	:	Engineering Sample No.: DG20250620550-9 for average output power, DG20250620550-2 for other conducted, DG20250620559-5 for others.
<b>Standard(s)</b>	:	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. (Dongguan)

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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.

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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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### REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2506C291	R00	Original Report.	Aug. 15, 2025	Invalid
BTL-FCCP-2-2506C291	R01	This report changed the antenna gain in section 3.1. It is a revision of the report BTL-FCCP-2-2506C291 R00. This is a newly released report. replacing the BTL-FCCP-2-2506C291 R00 report.	Aug. 27, 2025	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

### For Radiated emissions 1GHz to 18GHz:

Room 102 & 702, Building A3, No.9, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

### For others:

No.3, Jinshagang 1st Road, Dalang, Dongguan, 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 Measurement:

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

### B. Radiated emissions Measurement:

Test Site	Method	Measurement Frequency Range	$U$ ,(dB)
DG-CB03	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-CB19 (3m)	CISPR	1GHz ~ 6GHz	4.48
		6GHz ~ 18GHz	3.88

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	24°C	54%	AC 120V/60Hz	Hayden Chen	Jul. 17, 2025
Radiated Emissions -9 kHz to 30 MHz	22°C	48%	DC 5V	Hayden Chen	Jul. 01, 2025
Radiated Emissions -30 MHz to 1000 MHz	23°C	55%	DC 5V	Calvin Wen	Jul. 08, 2025
Radiated Emissions -Above 1000 MHz	29°C	55%	DC 5V	Jensen Zhou	Jul. 09, 2025
	23°C	55%	DC 5V	Calvin Wen	Jul. 16, 2025
Bandwidth	23°C	58%	DC 5V	Newnar Wang	Jul. 08, 2025
	26°C	47%	DC 5V	Newnar Wang	Jul. 16, 2025
Maximum Output Power	23°C	58%	DC 5V	Newnar Wang	Jul. 08, 2025
	26°C	47%	DC 5V	Newnar Wang	Jul. 16, 2025
	22.3°C	58.9%	DC 5V	James Huang	Jul. 22, 2025
Conducted Spurious Emission	23°C	58%	DC 5V	Newnar Wang	Jul. 08, 2025
	26°C	47%	DC 5V	Newnar Wang	Jul. 16, 2025
Power Spectral Density	23°C	58%	DC 5V	Newnar Wang	Jul. 08, 2025
	26°C	47%	DC 5V	Newnar Wang	Jul. 16, 2025

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Ergonomic detachable wireless mechanical keyboard
Brand Name	NAYA TECH, Naya Create
Test Model	NAYA-800-1(NAYA-CREATE)
Model Name	NAYA-800-1(NAYA-CREATE)
Model Difference(s)	N/A
Keyboard	Left Keyboard
Hardware Version	Create_L_KB_20250220_V13,Create_R_KB_20250221_V13
Software Version	Naya_Temp_Flash_Pair.exe
Power Source	1# Supplied from battery. Model: 301217 2# Supplied from PC USB port.
Power Rating	1# DC 3.7V 50mAh 0.185Wh 2# DC 5V
Operation Frequency	2402 MHz ~ 2480 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	2Mbps
Max. Peak Output Power	2Mbps: 9.27 dBm (0.0085 W)
Max. Average Output Power	2Mbps: 4.35 dBm (0.0027 W)

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

## 2. Channel List:

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

## 3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	BOEN	RF0400A	PCB	N/A	0.8

### 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_2Mbps Channel 37/19/39
Mode 2	TX Mode_2Mbps Channel 39

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 2	TX Mode_2Mbps Channel 39

Radiated emissions test - Below 1GHz & Above 18 GHz	
Final Test Mode	Description
Mode 2	TX Mode_2Mbps Channel 39

Radiated emissions test - 1 GHz - 18 GHz	
Final Test Mode	Description
Mode 1	TX Mode_2Mbps Channel 37/19/39

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_2Mbps Channel 37/19/39

Note:

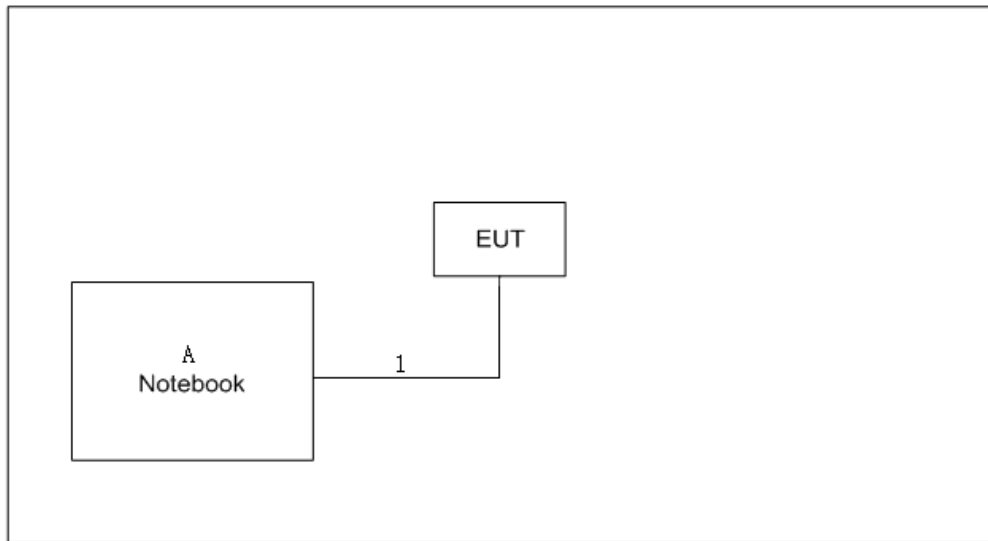
- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 2Mbps Channel 39 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 1 GHz - 18 GHz test, both Vertical and Horizontal are evaluated, only the worst polarization 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	nrfconnect-setup-5.1.0-x64		
Frequency (MHz)	2402	2442	2480
2Mbps	8	8	8

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



### 3.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Huawei	NbDE-WFH9	LR07GZNB

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

### 3.6 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain is provided by the manufacturer.
- 2) Except for AC power line conducted emissions and radiated emissions, the results of all test items include cable losses. Part of the cable losses (0.5dB) 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 (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.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value - Limit Value

### 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.

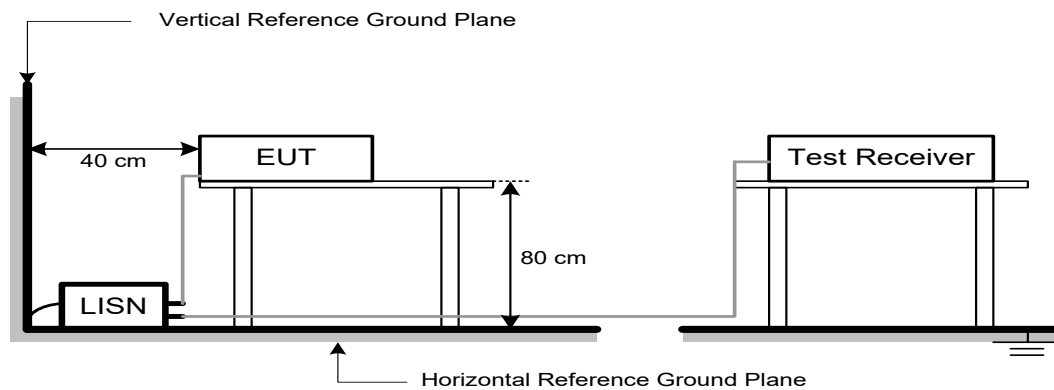
The following table is the setting of the receiver:

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 5)	63.5 (Note 5)

#### 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) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

(5)

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

20log (d<sub>limit</sub>/d<sub>measure</sub>)=20log (3/1)=9.5 dB.

FS<sub>limit</sub>: Harmonic at 3m Peak and Average limit.

FS<sub>max</sub>: Harmonic at 1m Peak and Average Maximum value.

d<sub>limit</sub>: Harmonic at 3m test distance.

d<sub>measure</sub>: Harmonic Actual test distance.



## 5.2 TEST PROCEDURE

- 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)
- 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)
- 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.
- 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).
- 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.
- 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.
- 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)
- 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)
- 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

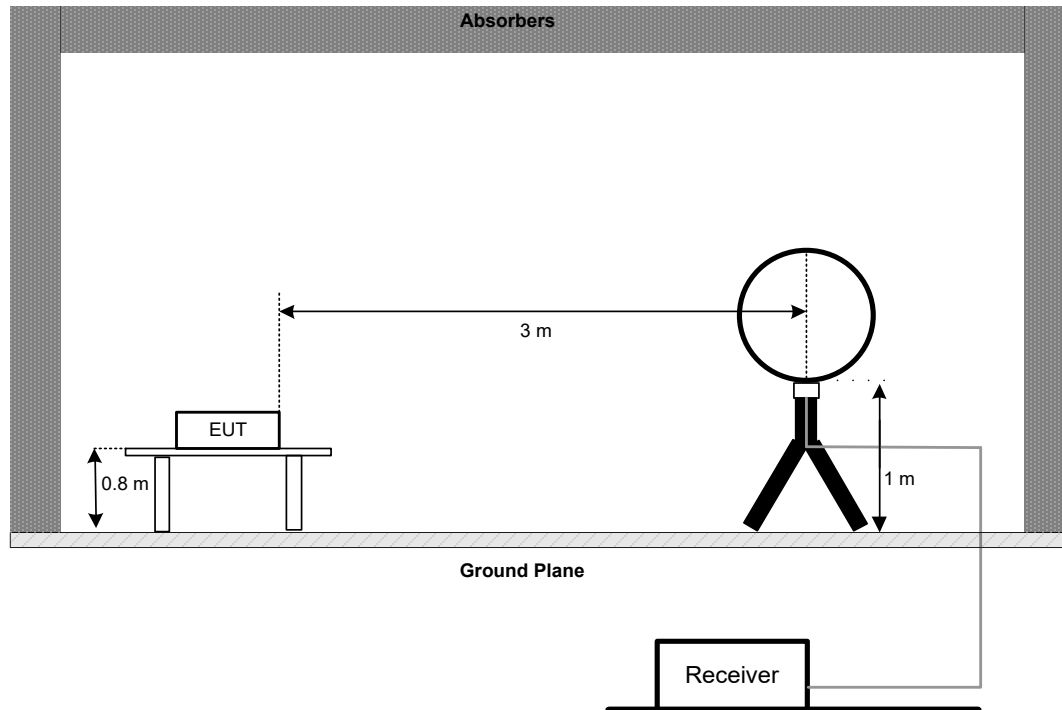
Spectrum Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

### 5.3 DEVIATION FROM TEST STANDARD

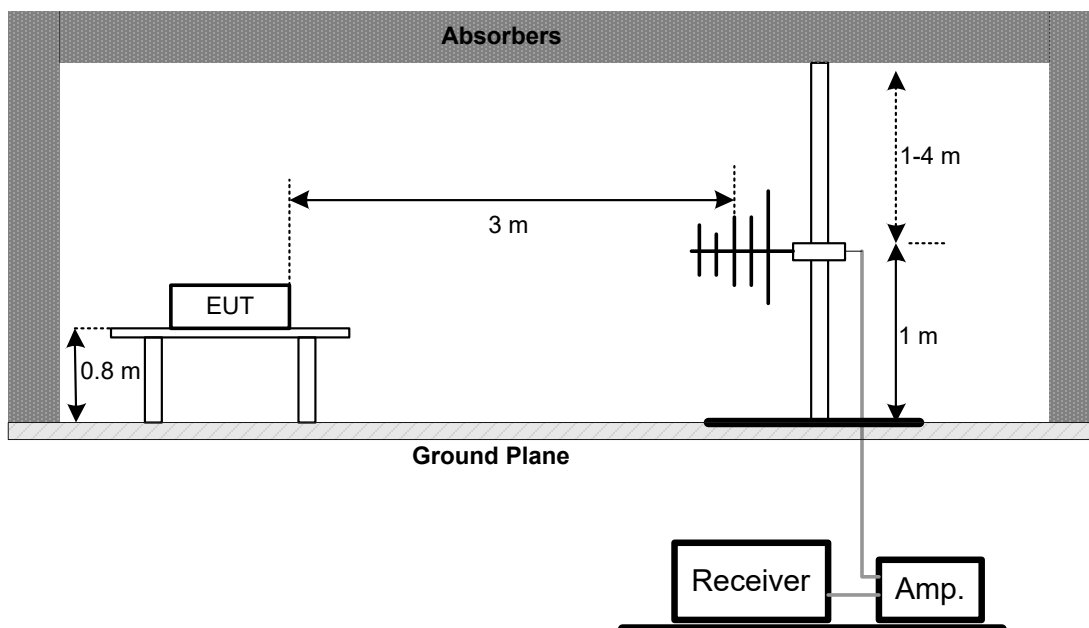
No deviation.

### 5.4 TEST SETUP

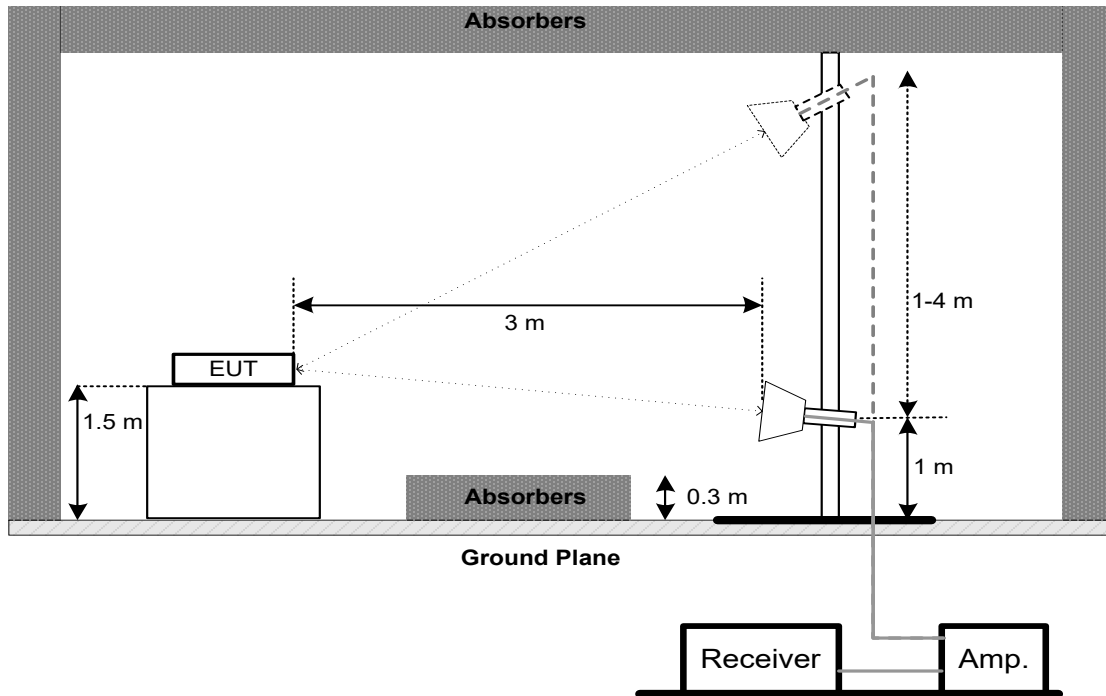
9 kHz to 30 MHz



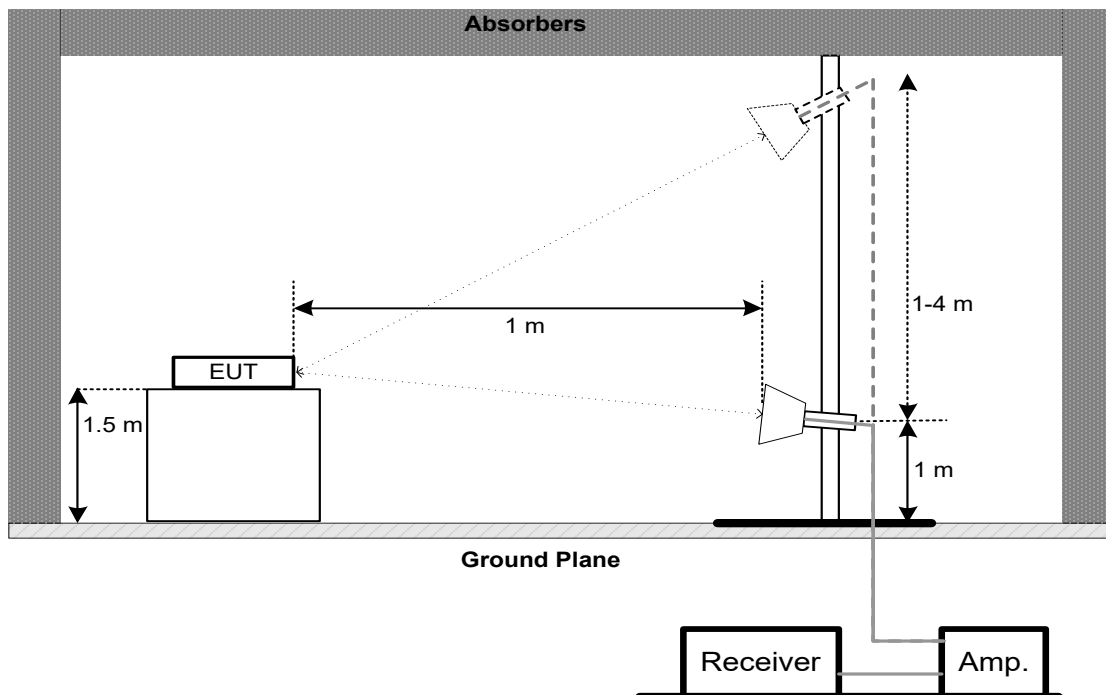
30 MHz to 1 GHz



**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	$>$ Measurement Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span	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	$\geq 3 \times \text{RBW}$
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:

For Reference Level:

Spectrum Parameters	Setting
Span	$\geq 1.5$ times the bandwidth.
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Band edge:

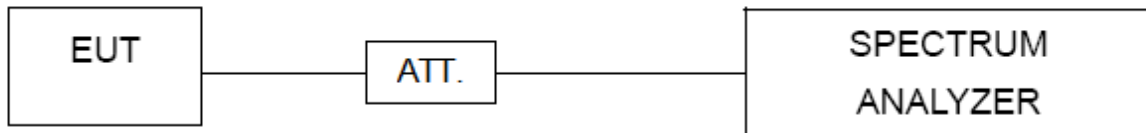
Spectrum Parameters	Setting
Start Frequency	2300 MHz
Stop Frequency	2690 MHz
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For Emission Level - Harmonic:

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

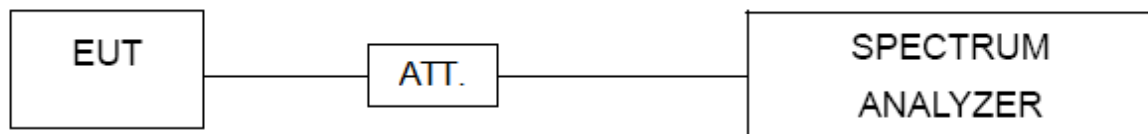
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span	1.5 times the DTS bandwidth
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. 06, 2025
2	TWO-LINE V-NETWORK	R&S	ENV216	102771	Jun. 27, 2026
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-12 M-001	12M	Apr. 23, 2026
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 1513-60	00025	Mar. 01, 2026
2	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
3	Cable	RegalWay	LMR400-NMNM-6m	N/A	Apr. 26, 2026
4	Cable	RegalWay	LMR400-NMRANM-3. 5m	N/A	Apr. 26, 2026
5	966 Chamber room	CM	9*6*6	N/A	May 09, 2026

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. 14, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06009	Dec. 14, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980998	May 17, 2026
4	Cable	RegalWay	LMR400-NMNM-12.5m	N/A	Jun. 04, 2026
5	Cable	RegalWay	LMR400-NMNM-3m	N/A	Jun. 04, 2026
6	Cable	RegalWay	LMR400-NMNM-0.5m	N/A	Jun. 04, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
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 09, 2026

**Radiated Emissions - 1 GHz - 18 GHz**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Positioning Controller	MF	MF-7802	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63430227	Oct. 29, 2025
4	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 0000	N/A	Jun. 12, 2026
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3 000	N/A	Jun. 12, 2026
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 000	N/A	Jun. 12, 2026
7	966 Chamber room	Tai He	9*6*6 (NSA&VSWR)	N/A	May 18, 2026
8	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 28, 2025
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 28, 2026
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	COM-MW	ZHPF6-M3000-180 00-174	N/A	Oct. 29, 2025

**Radiated Emissions - Above 18 GHz**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Keysight	N9010A	MY55150209	Aug. 20, 2025
2	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 20, 2025
6	966 Chamber room	CM	9*6*6	N/A	May 09, 2026
7	Positioning Controller	MF	MF-7802	N/A	N/A
8	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

**Bandwidth &  
Power Spectral Density &  
Conducted Spurious Emission**

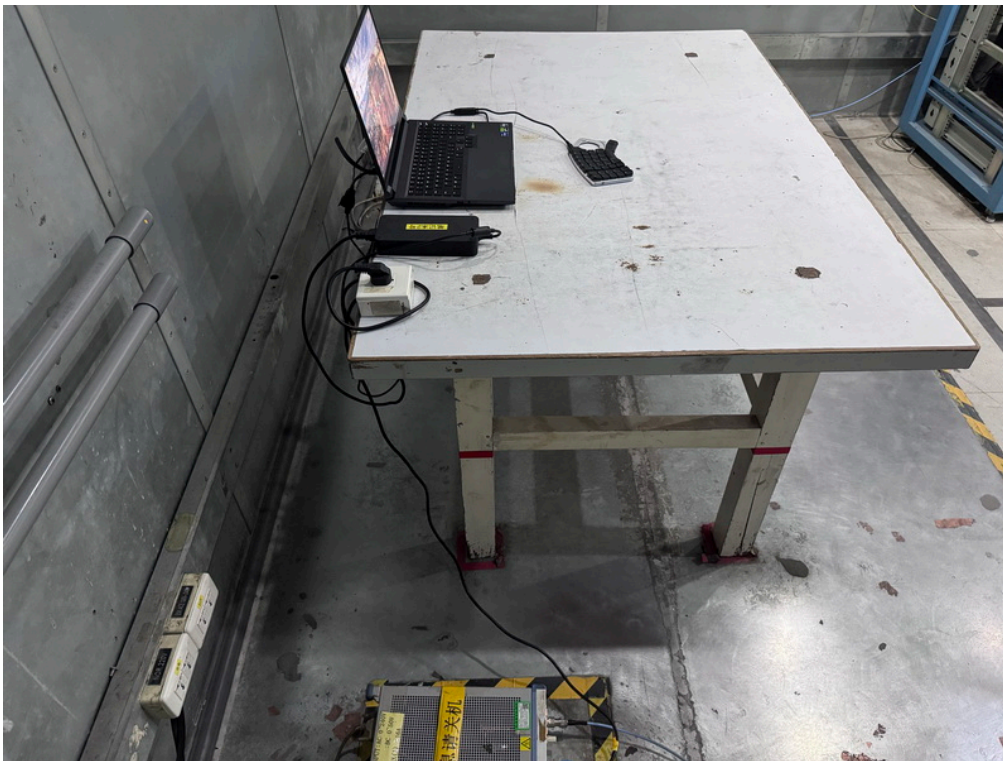
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	FSV Signal & Spectrum Analyzer	R&S	FSV3044	101682	Oct. 17, 2025
2	CTA	BTL	CTA	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	FSV Signal & Spectrum Analyzer	R&S	FSV3044	101682	Oct. 17, 2025
2	CTA	BTL	CTA	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A
4	Smart Power Sensor	R&S	NRP-Z21	102209	Jan. 11, 2026

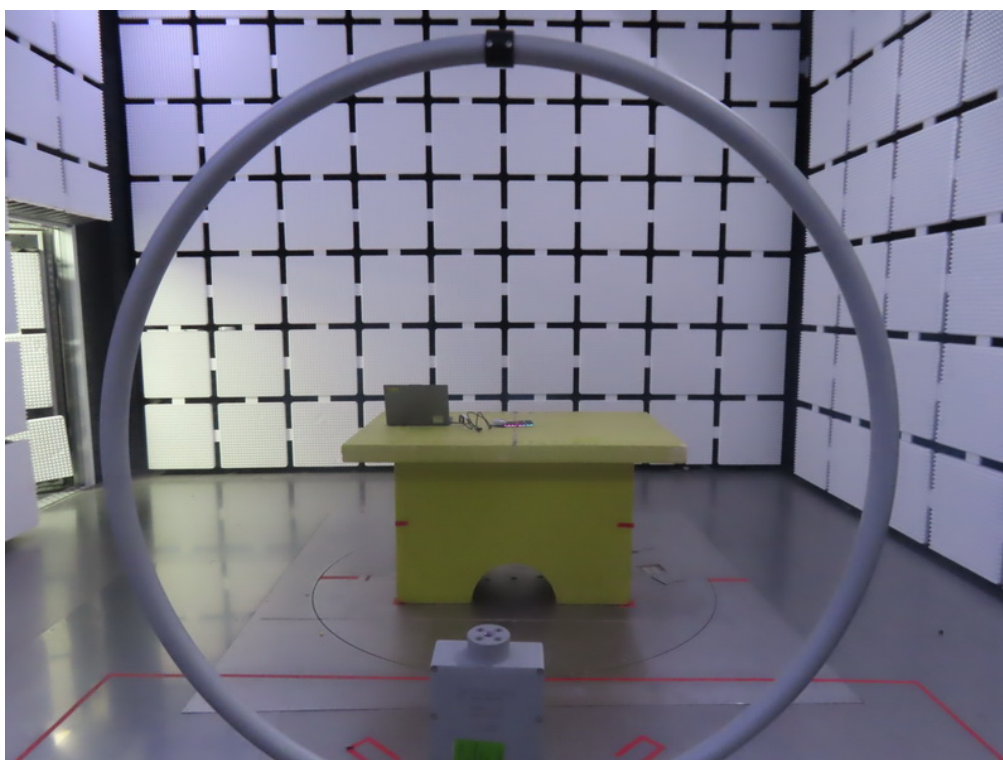
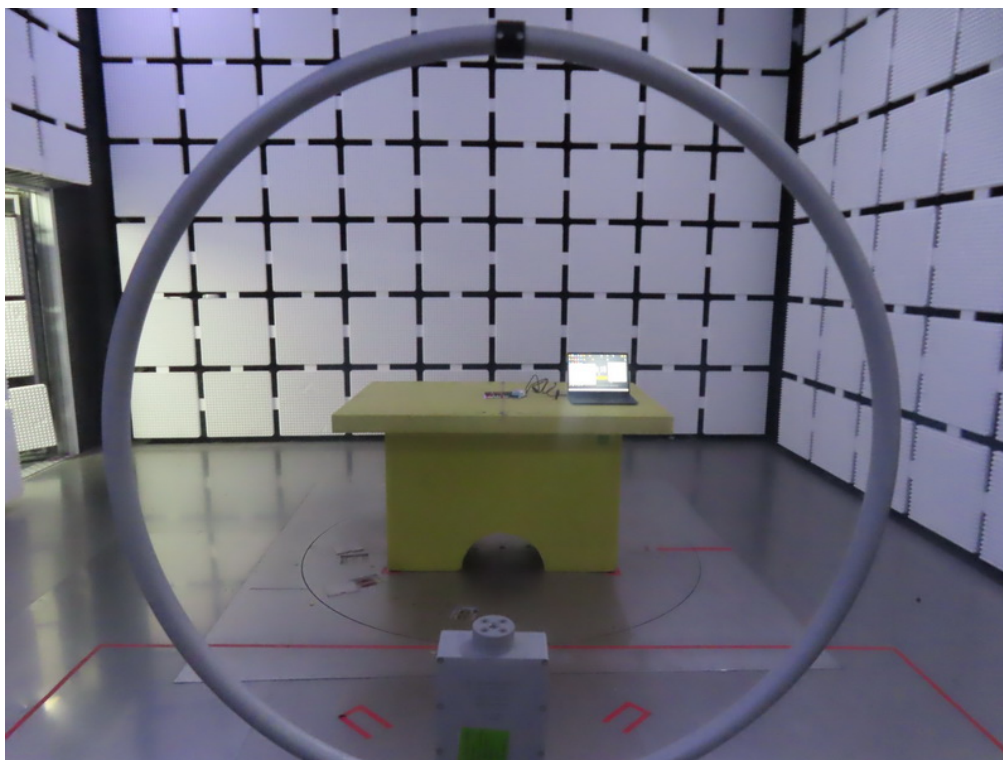
Remark: "N/A" denotes no model name, serial no. or calibration specified.  
All calibration period of equipment list is one year.

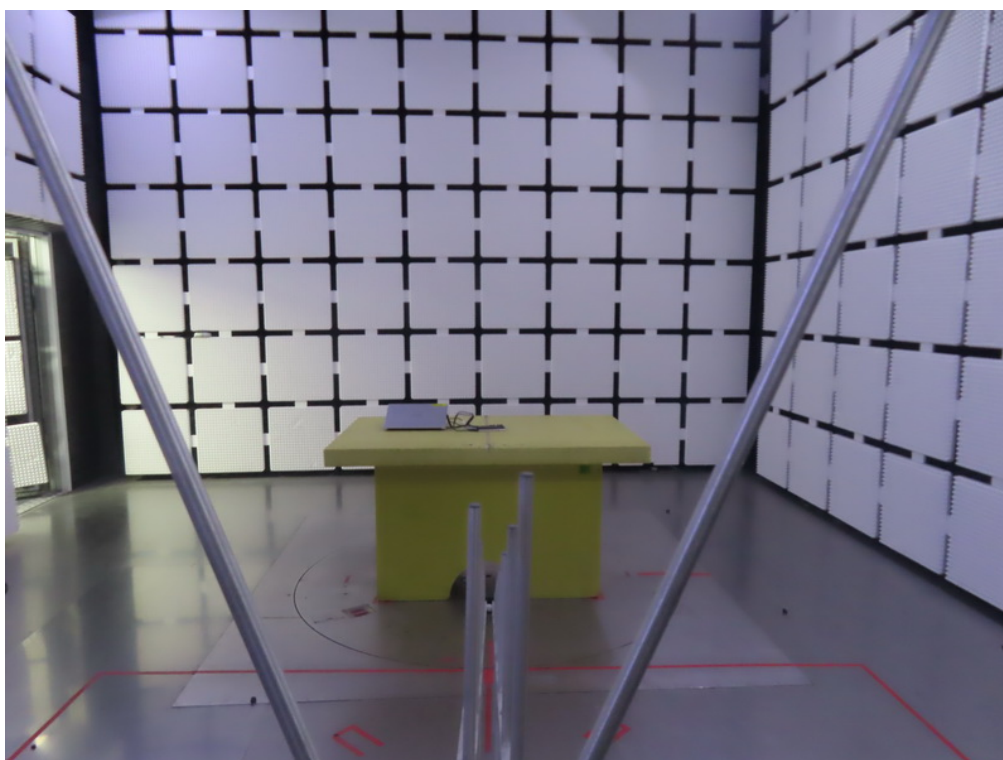
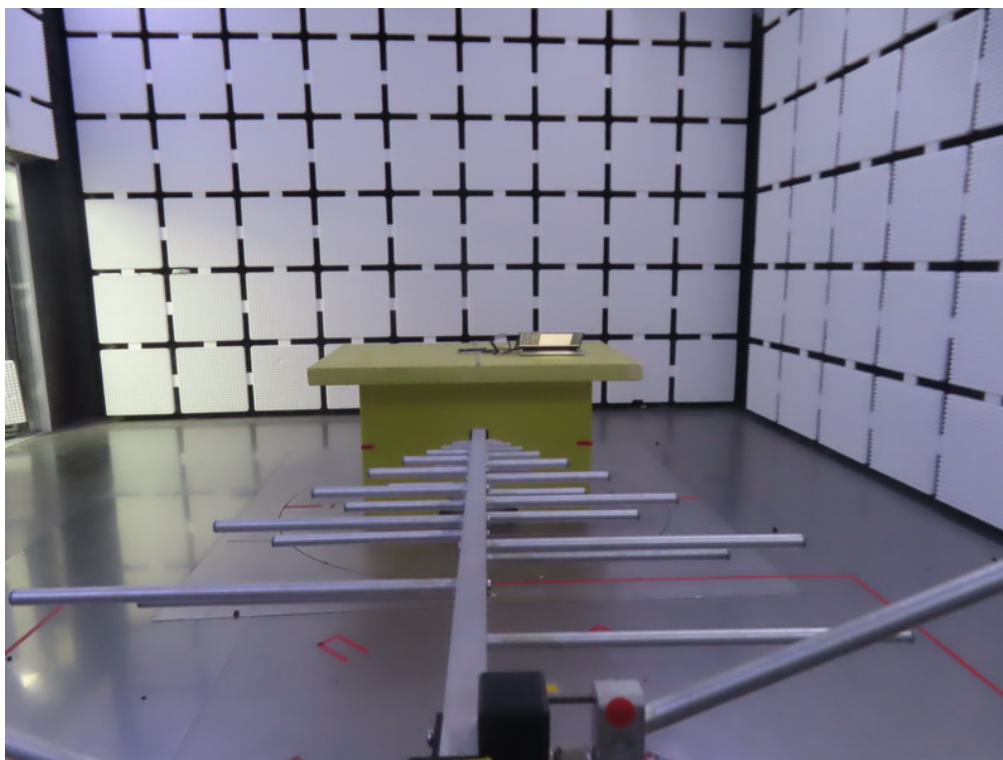
## 11. EUT TEST PHOTO

### AC Power Line Conducted Emissions Test Photos





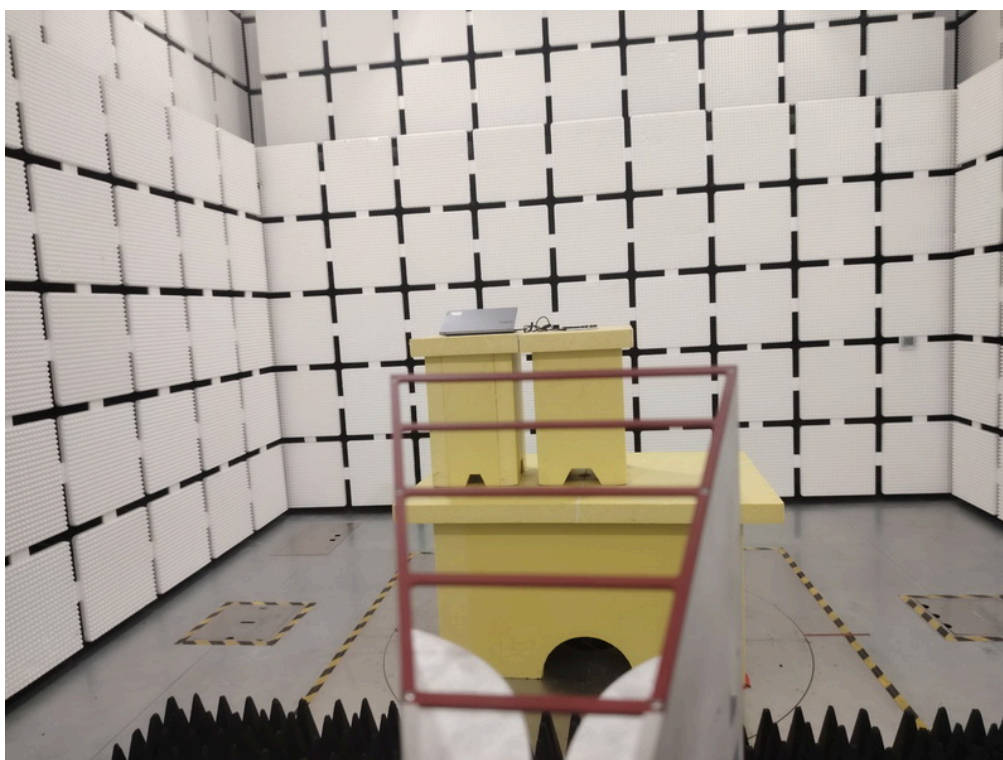
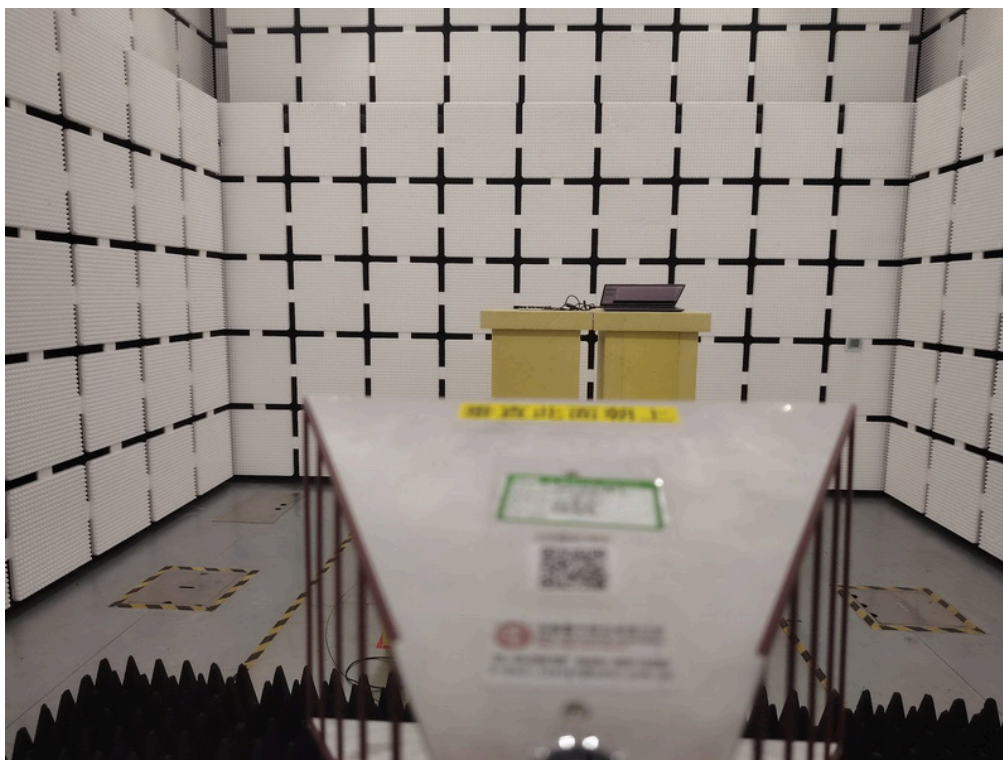
**Radiated Emissions Test Photos****9 kHz to 30 MHz**

**Radiated Emissions Test Photos****30 MHz to 1000 MHz**



### Radiated Emissions Test Photos

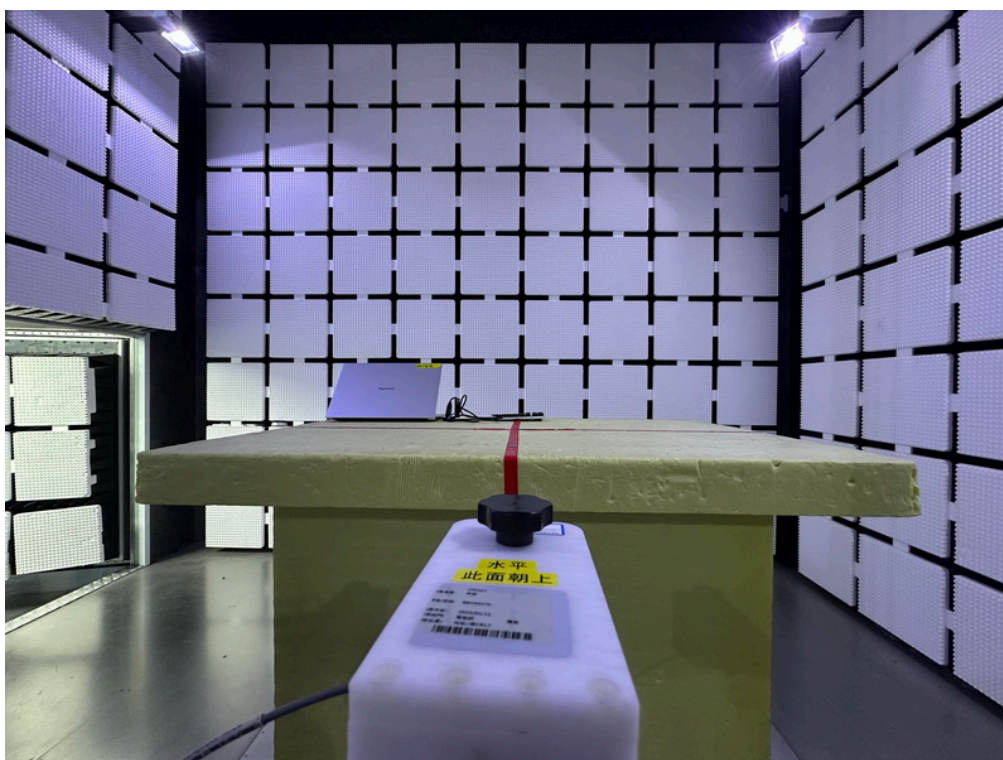
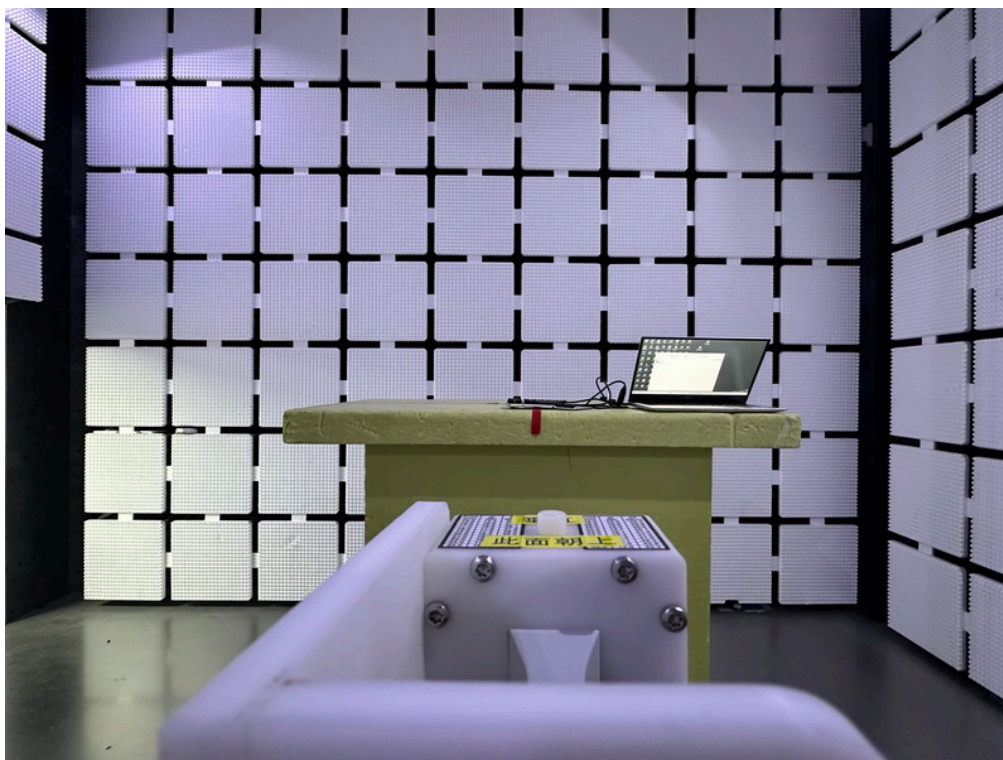
#### Band edge & Harmonic(1 GHz to 18 GHz)



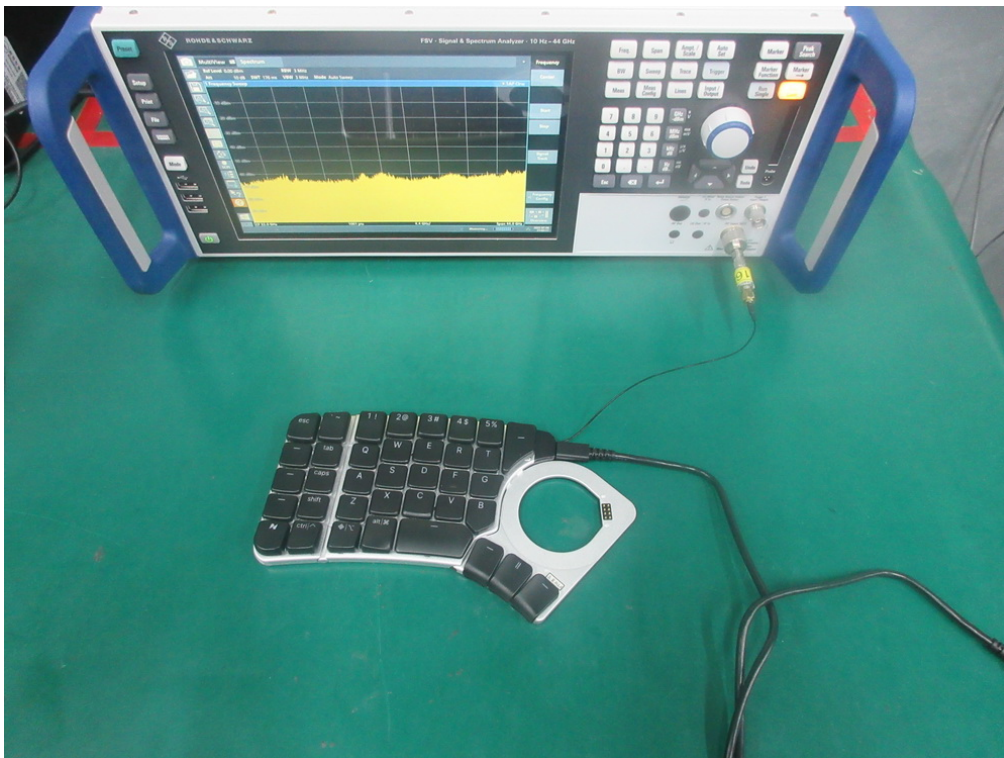


## Radiated Emissions Test Photos

### Harmonic(18 GHz to 26.5 GHz)



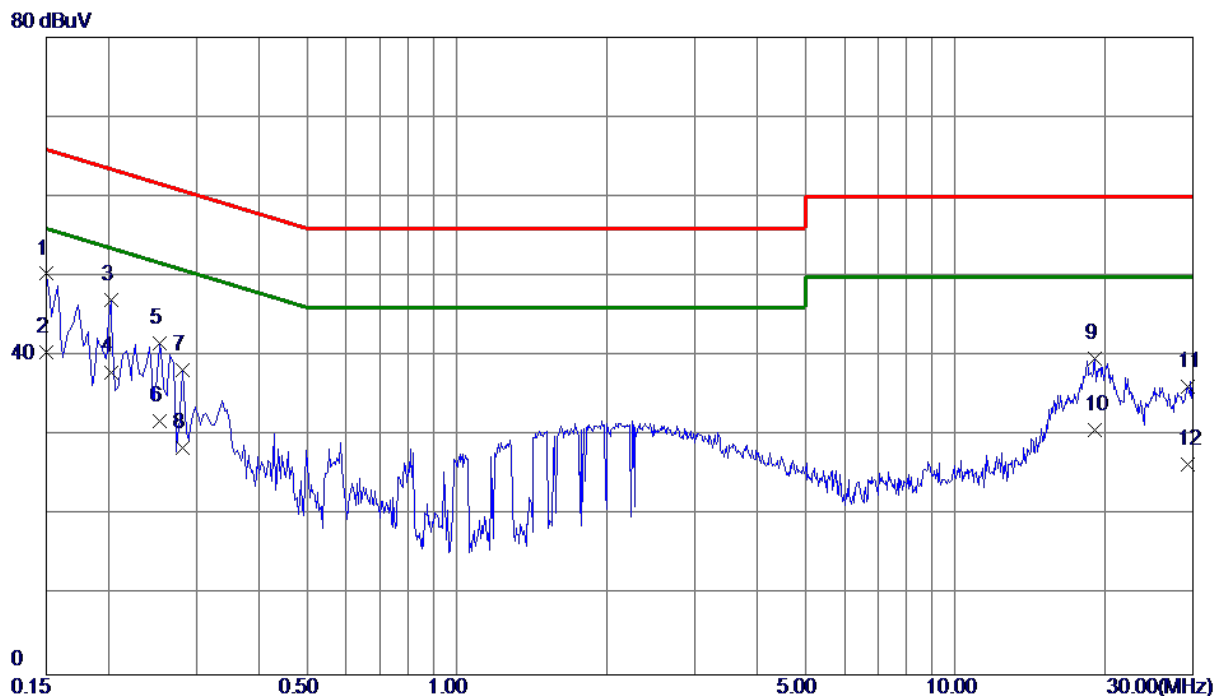
## Conducted Test Photos



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



Test Mode	TX Mode Channel 39_2Mbps	Phase	Line
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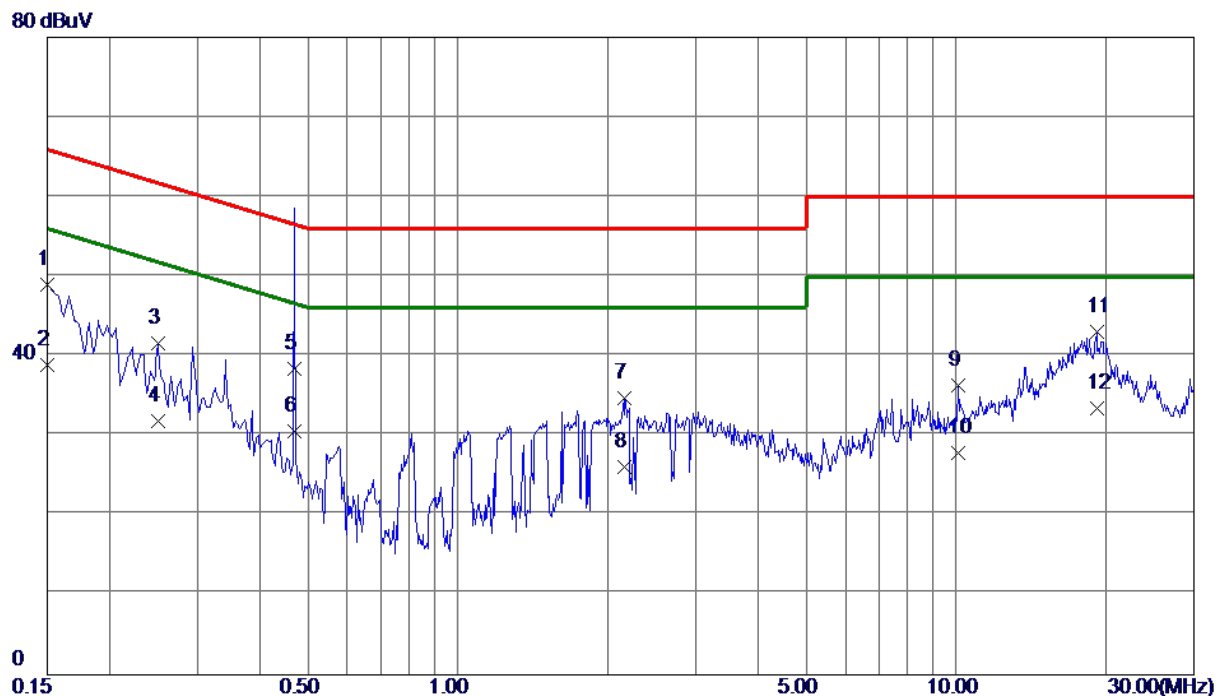


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	40.42	9.90	50.32	66.00	-15.68	QP	
2 *	0.1500	30.59	9.90	40.49	56.00	-15.51	AVG	
3	0.2020	37.11	9.90	47.01	63.53	-16.52	QP	
4	0.2020	28.10	9.90	38.00	53.53	-15.53	AVG	
5	0.2540	31.72	9.91	41.63	61.63	-20.00	QP	
6	0.2540	21.90	9.91	31.81	51.63	-19.82	AVG	
7	0.2819	28.28	9.92	38.20	60.76	-22.56	QP	
8	0.2819	18.60	9.92	28.52	50.76	-22.24	AVG	
9	19.0780	24.85	14.84	39.69	60.00	-20.31	QP	
10	19.0780	15.89	14.84	30.73	50.00	-19.27	AVG	
11	29.2340	20.27	15.86	36.13	60.00	-23.87	QP	
12	29.2340	10.60	15.86	26.46	50.00	-23.54	AVG	

## REMARKS:

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

Test Mode	TX Mode Channel 39_2Mbps	Phase	Neutral
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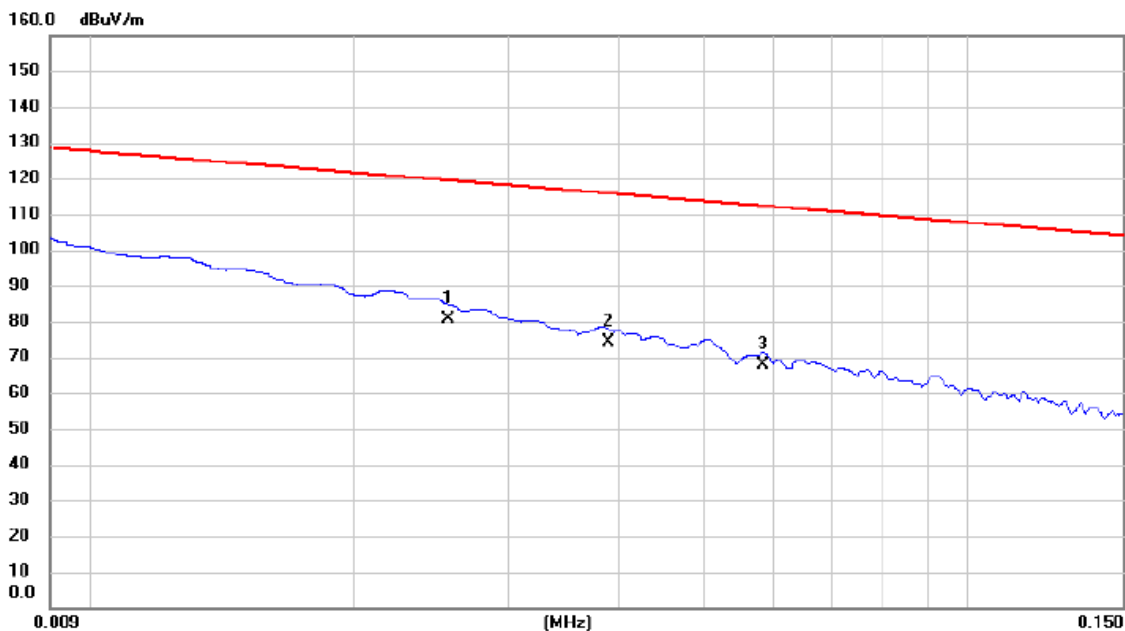
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	38.98	9.97	48.95	66.00	-17.05	QP	
2	0.1500	28.90	9.97	38.87	56.00	-17.13	AVG	
3	0.2500	31.55	9.98	41.53	61.76	-20.23	QP	
4	0.2500	21.81	9.98	31.79	51.76	-19.97	AVG	
5	0.4700	28.40	10.03	38.43	56.51	-18.08	QP	
6 *	0.4700	20.60	10.03	30.63	46.51	-15.88	AVG	
7	2.1540	24.47	10.22	34.69	56.00	-21.31	QP	
8	2.1540	15.90	10.22	26.12	46.00	-19.88	AVG	
9	10.1059	24.43	11.92	36.35	60.00	-23.65	QP	
10	10.1059	15.90	11.92	27.82	50.00	-22.18	AVG	
11	19.1540	28.27	14.76	43.03	60.00	-16.97	QP	
12	19.1540	18.70	14.76	33.46	50.00	-16.54	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 Channel 39_2Mbps	Polarization	Ant 0°
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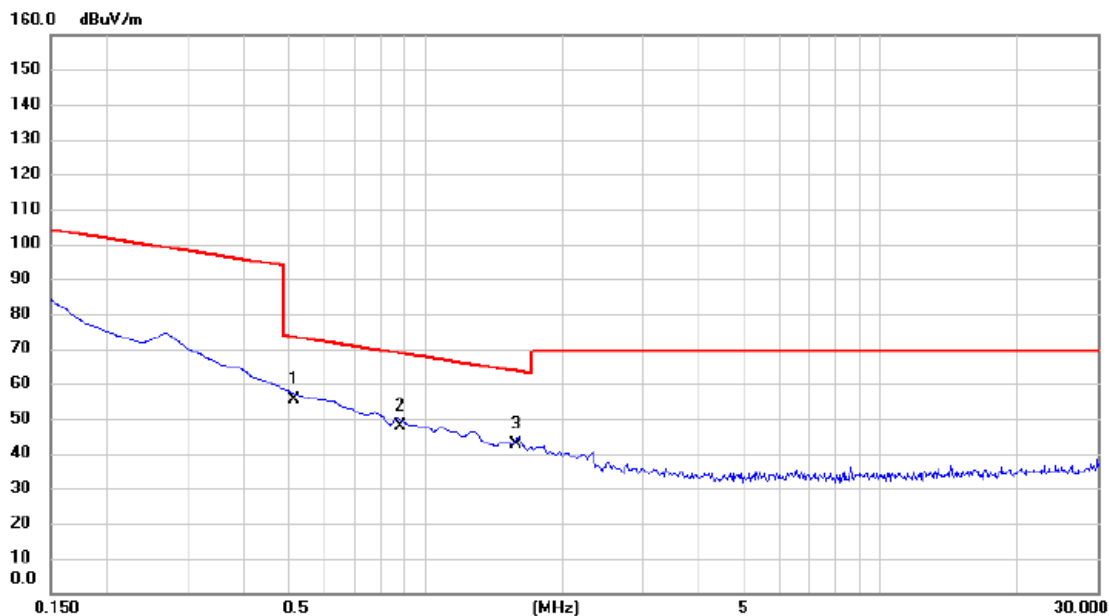


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.026	60.49	20.23	80.72	119.44	-38.72	AVG	
2		0.039	53.89	20.14	74.03	115.78	-41.75	AVG	
3		0.059	47.67	20.14	67.81	112.26	-44.45	AVG	

## REMARKS:

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

Test Mode	TX Mode Channel 39_2Mbps	Polarization	Ant 0°
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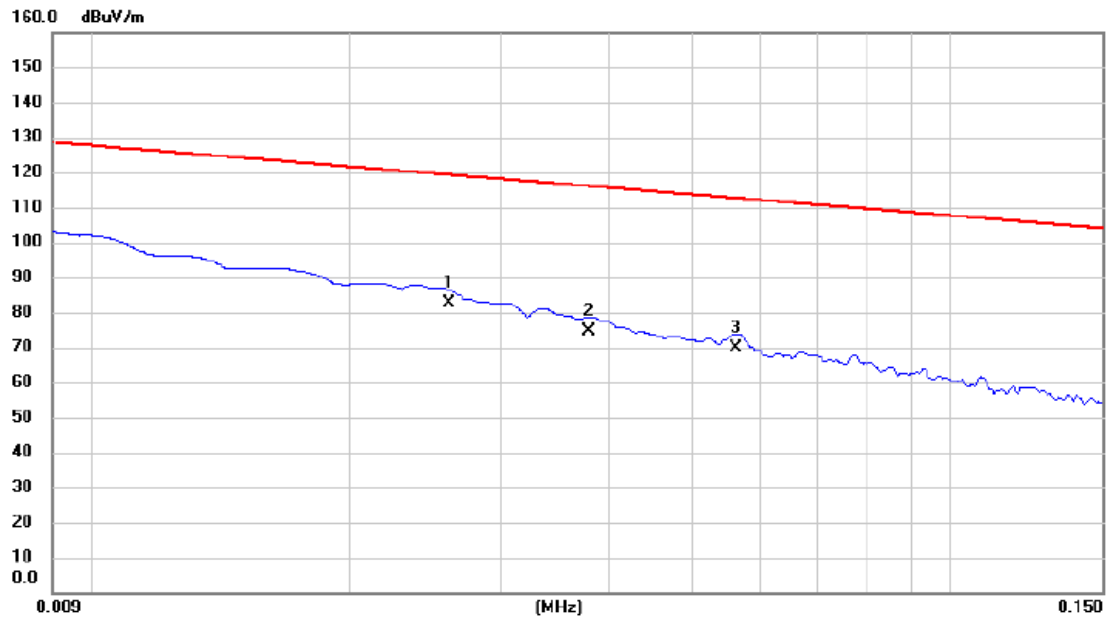
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.513	35.32	20.06	55.38	73.40	-18.02	QP	
2	0.880	27.79	19.98	47.77	68.71	-20.94	QP	
3	1.583	22.53	20.01	42.54	63.62	-21.08	QP	

## REMARKS:

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



Test Mode	TX Mode Channel 39_2Mbps	Polarization	Ant 90°
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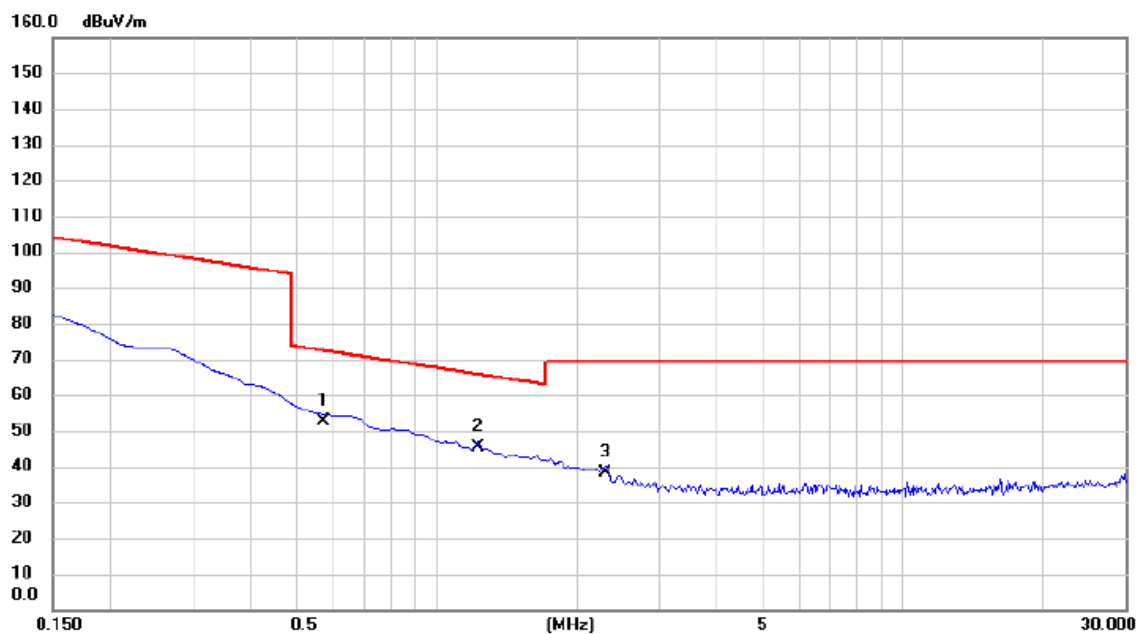
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.026	62.34	20.22	82.56	119.27	-36.71	AVG	
2		0.038	54.64	20.14	74.78	116.01	-41.23	AVG	
3		0.056	49.81	20.14	69.95	112.61	-42.66	AVG	

## REMARKS:

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

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

Test Mode	TX Mode Channel 39_2Mbps	Polarization	Ant 90°
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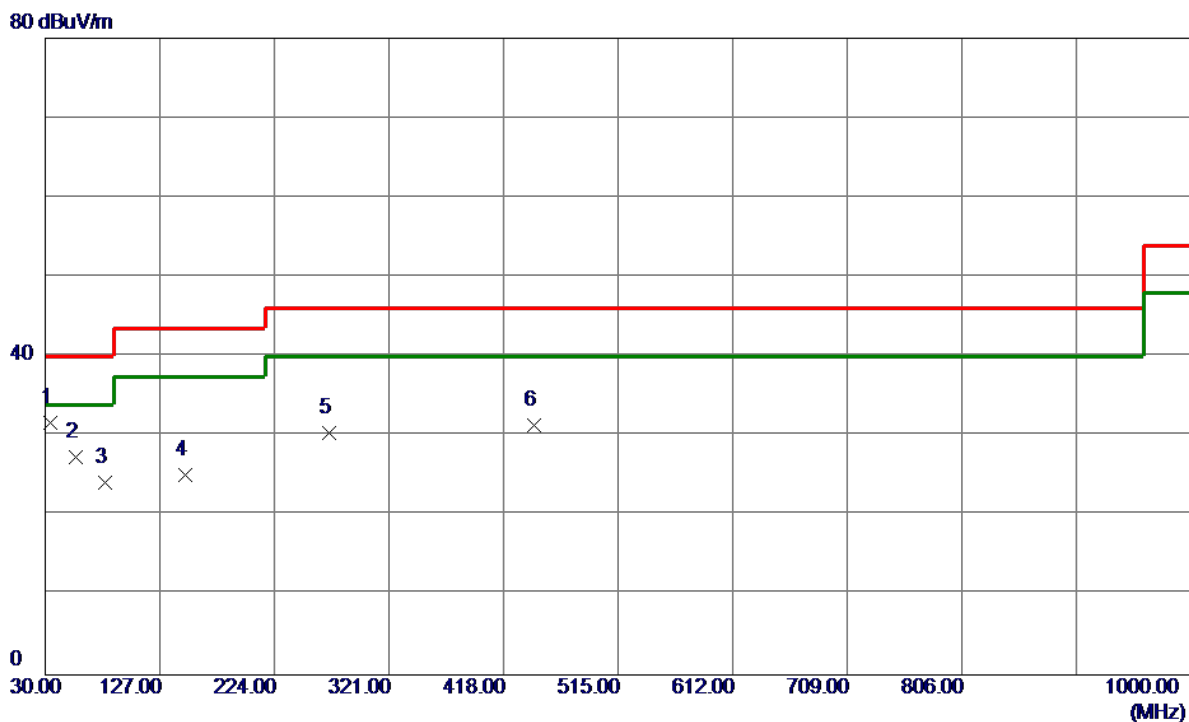
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.573	32.66	20.04	52.70	72.44	-19.74	QP	
2		1.224	25.36	20.00	45.36	65.85	-20.49	QP	
3		2.299	18.31	20.02	38.33	69.54	-31.21	QP	

## 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 Channel 39_2Mbps	Polarization	Vertical
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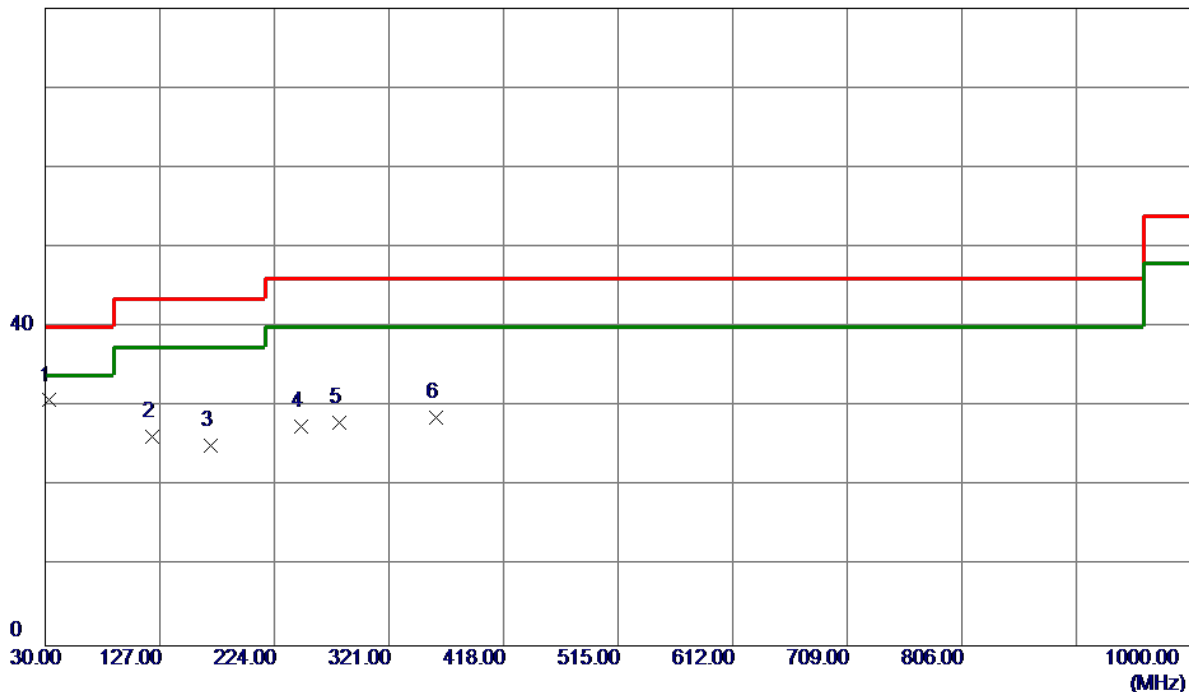
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	33.8800	44.00	-12.29	31.71	40.00	-8.29	Peak	
2	56.1900	38.59	-11.26	27.33	40.00	-12.67	Peak	
3	80.4400	39.38	-15.25	24.13	40.00	-15.87	Peak	
4	148.3400	35.90	-10.73	25.17	43.52	-18.35	Peak	
5	270.5600	41.10	-10.67	30.43	46.02	-15.59	Peak	
6	444.1900	37.56	-6.14	31.42	46.02	-14.60	Peak	

## REMARKS:

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

Test Mode	TX Mode Channel 39_2Mbps	Polarization	Horizontal
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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 *	32.9100	43.27	-12.47	30.80	40.00	-9.20	Peak	
2	120.2100	39.32	-13.08	26.24	43.52	-17.28	Peak	
3	169.6799	35.72	-10.65	25.07	43.52	-18.45	Peak	
4	246.3100	39.04	-11.56	27.48	46.02	-18.54	Peak	
5	279.2900	38.11	-10.15	27.96	46.02	-18.06	Peak	
6	360.7700	37.05	-8.42	28.63	46.02	-17.39	Peak	

## REMARKS:

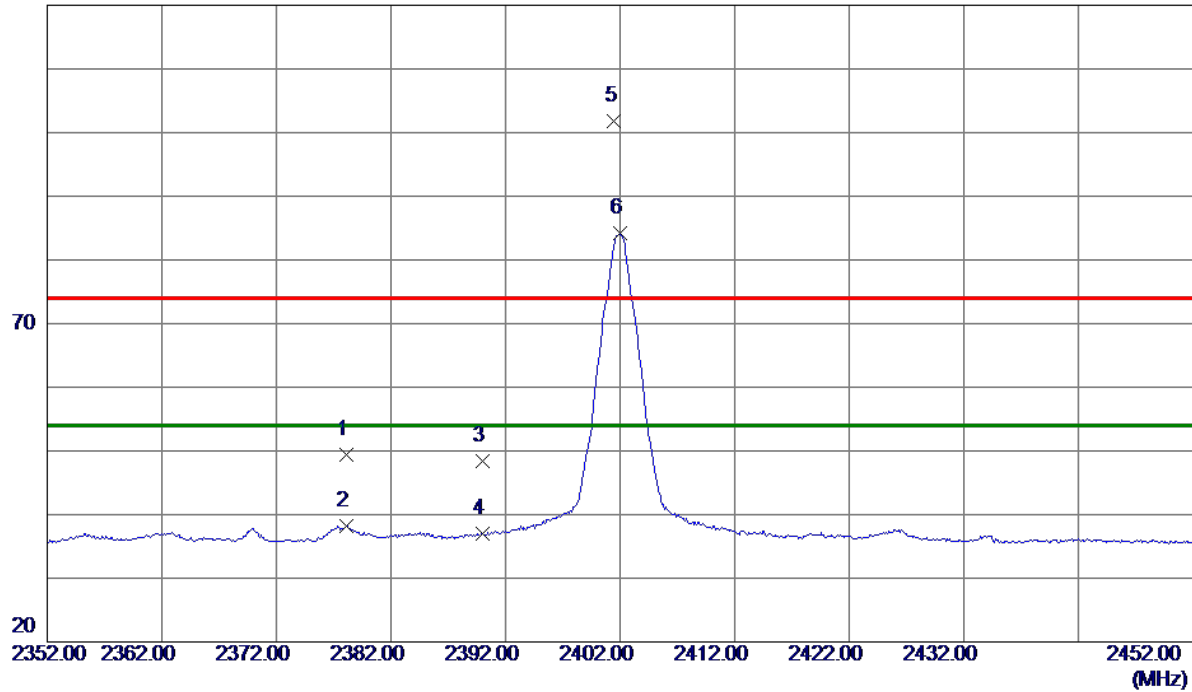
(1) Measurement Value = Reading Level + Correct Factor.

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

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

Test Mode	TX 2402 MHz_CH37_2Mbps	Polarization	Horizontal
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120 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2378.1000	40.15	9.23	49.38	74.00	-24.62	Peak	
2	2378.1000	28.98	9.23	38.21	54.00	-15.79	AVG	
3	2390.0000	39.19	9.26	48.45	74.00	-25.55	Peak	
4	2390.0000	27.75	9.26	37.01	54.00	-16.99	AVG	
5	2401.5000	92.58	9.28	101.86	74.00	27.86	Peak	No Limit
6 *	2402.0000	74.87	9.28	84.15	54.00	30.15	AVG	No Limit

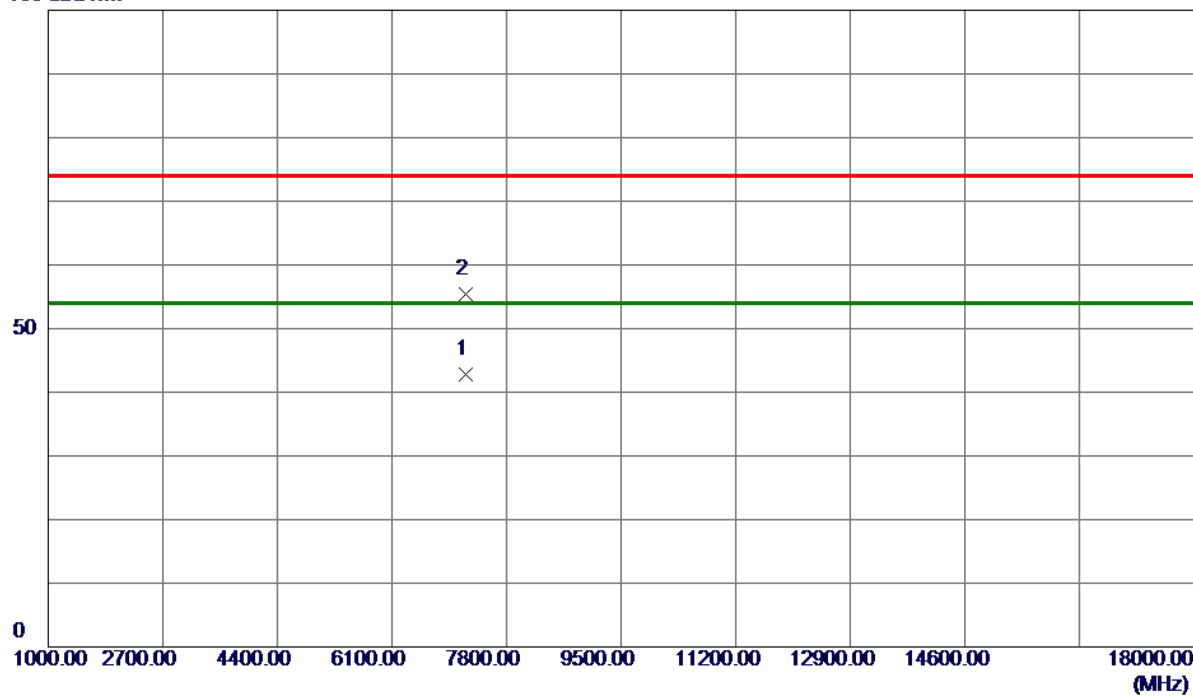
## REMARKS:

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

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

Test Mode	TX 2402 MHz_CH37_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 *	7204.9800	34.75	7.98	42.73	54.00	-11.27	AVG	
2	7204.7200	47.43	7.98	55.41	74.00	-18.59	Peak	

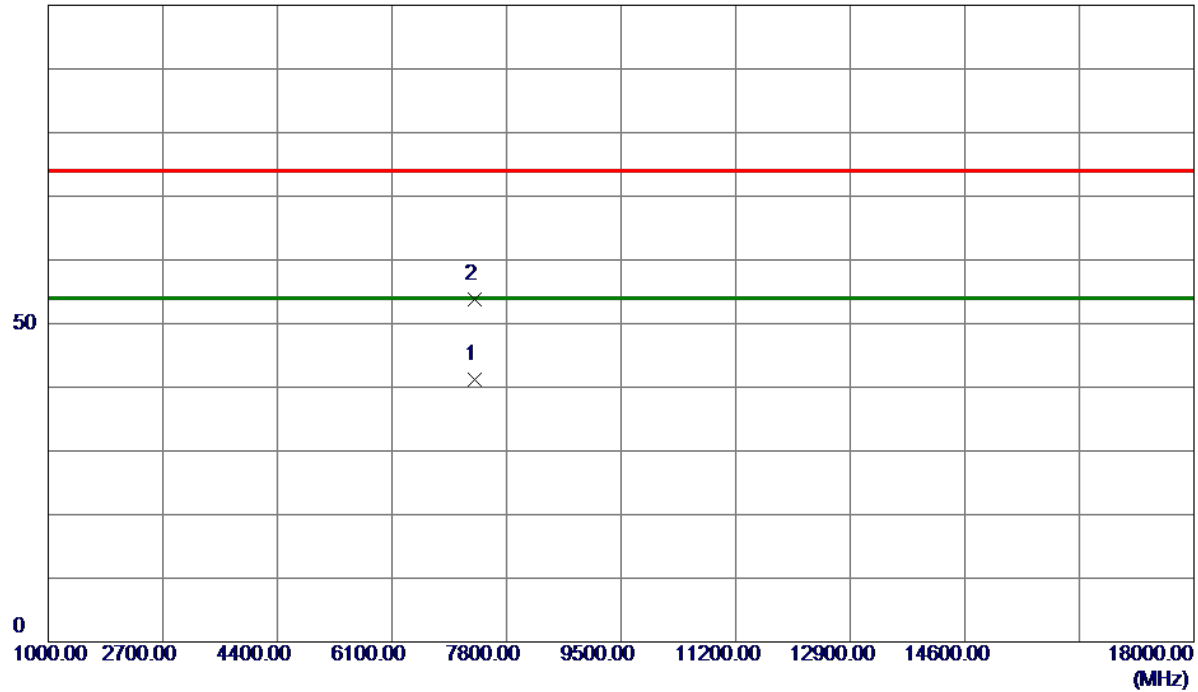
## REMARKS:

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



Test Mode	TX 2442 MHz_CH19_2Mbps	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 *	7324.8750	32.94	8.28	41.22	54.00	-12.78	AVG	
2	7324.4250	45.48	8.28	53.76	74.00	-20.24	Peak	

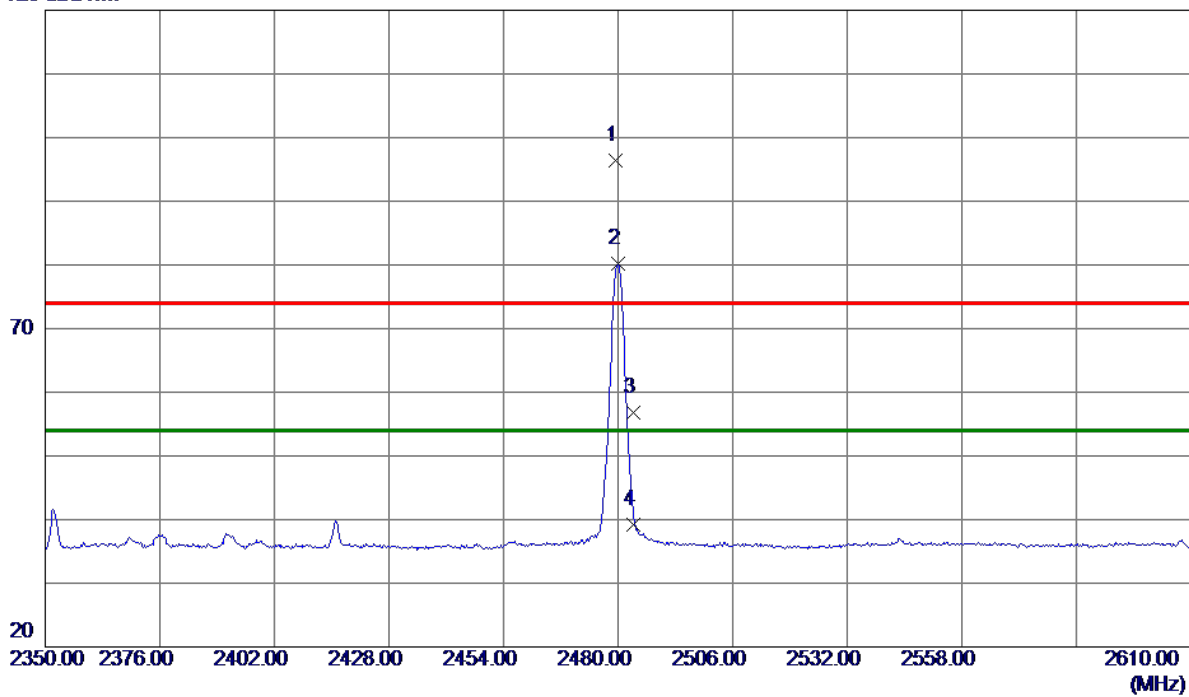
## REMARKS:

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

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

Test Mode	TX 2480 MHz_CH39_2Mbps	Polarization	Horizontal
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120 dBuV/m



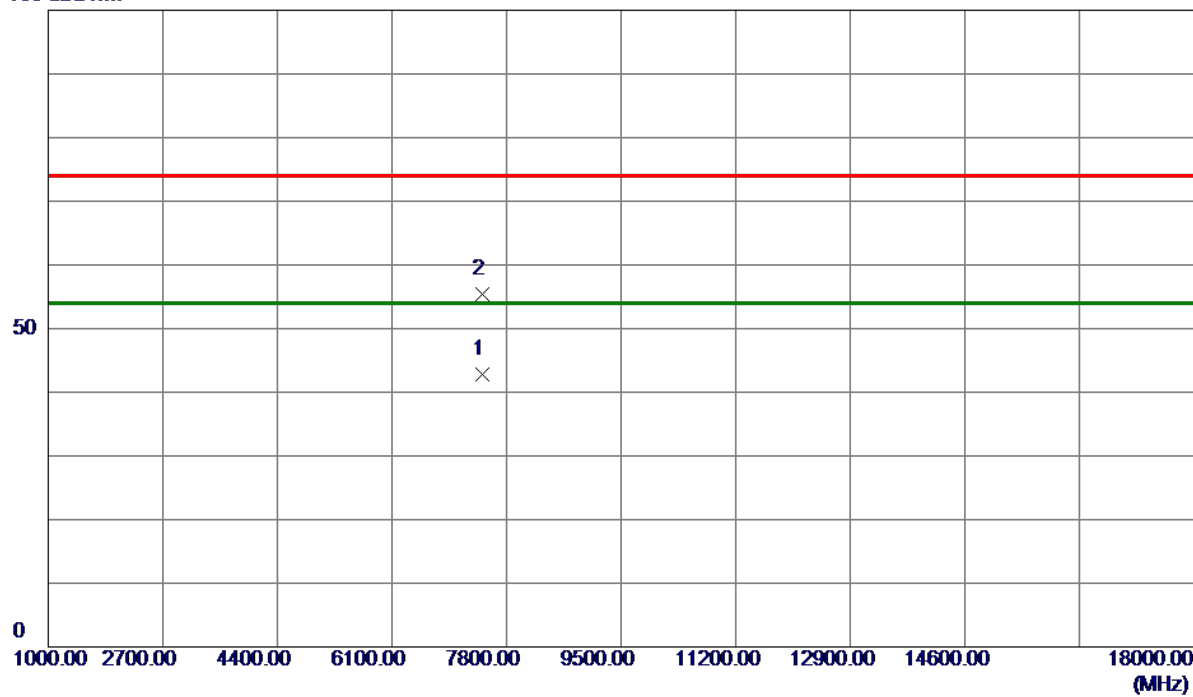
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2479.4800	86.96	9.47	96.43	74.00	22.43	Peak	No Limit
2 *	2480.0000	70.70	9.47	80.17	54.00	26.17	AVG	No Limit
3	2483.5000	47.35	9.48	56.83	74.00	-17.17	Peak	
4	2483.5000	29.73	9.48	39.21	54.00	-14.79	AVG	

## REMARKS:

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

Test Mode	TX 2480 MHz_CH39_2Mbps	Polarization	Horizontal
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100 dBuV/m



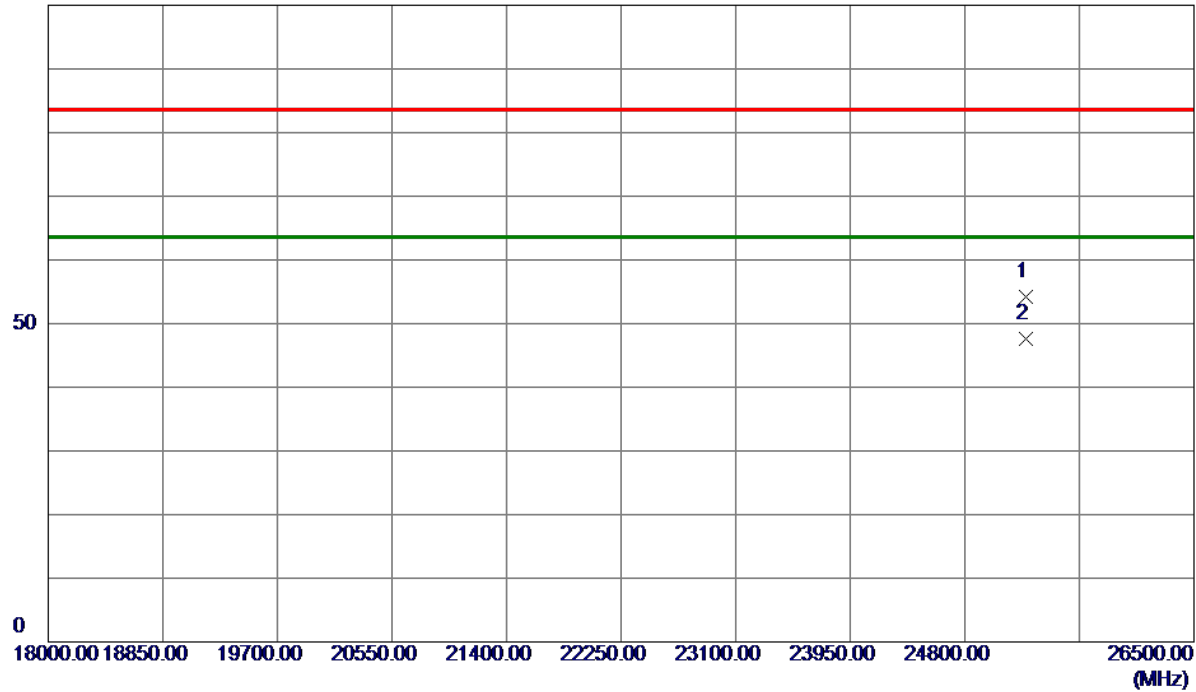
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7438.9250	34.29	8.56	42.85	54.00	-11.15	AVG	
2	7439.9000	46.79	8.56	55.35	74.00	-18.65	Peak	

## REMARKS:

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

Test Mode	TX 2480 MHz_CH39_2Mbps	Polarization	Vertical
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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	25250.5000	50.17	3.99	54.16	83.50	-29.34	Peak	
2 *	25250.5000	43.67	3.99	47.66	63.50	-15.84	AVG	

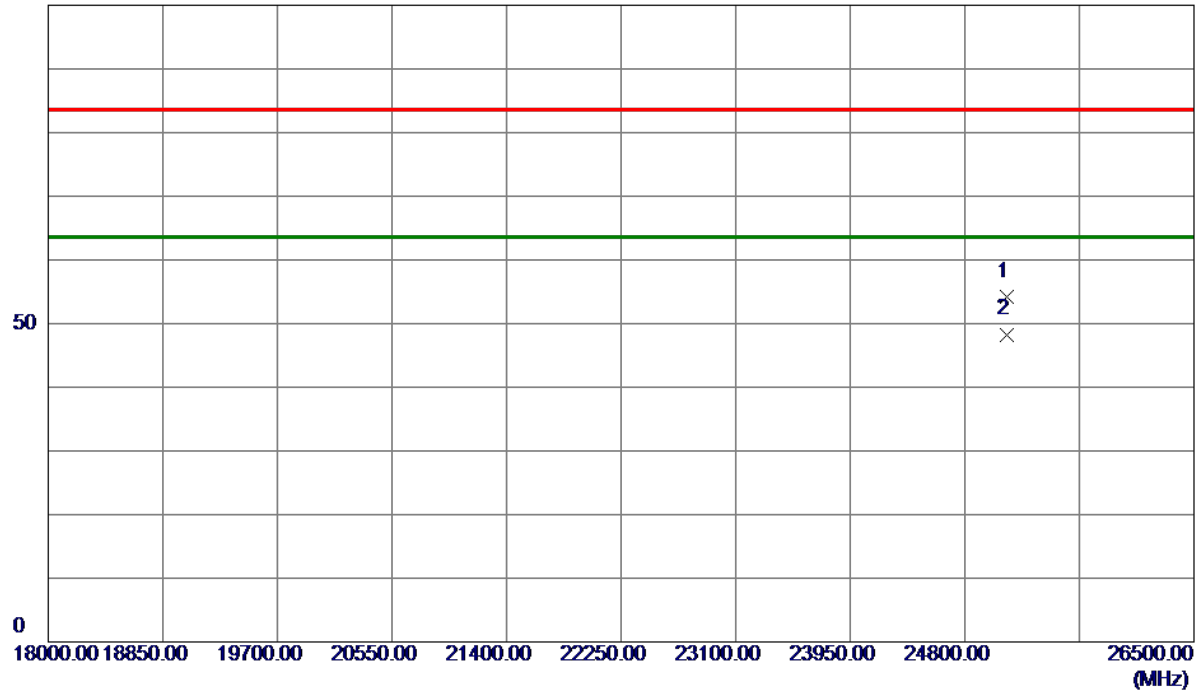
## REMARKS:

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

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

Test Mode	TX 2480 MHz_CH39_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	25114.5000	50.06	4.18	54.24	83.50	-29.26	Peak	
2 *	25114.5000	44.12	4.18	48.30	63.50	-15.20	AVG	

#### REMARKS:

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

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

## APPENDIX E - BANDWIDTH

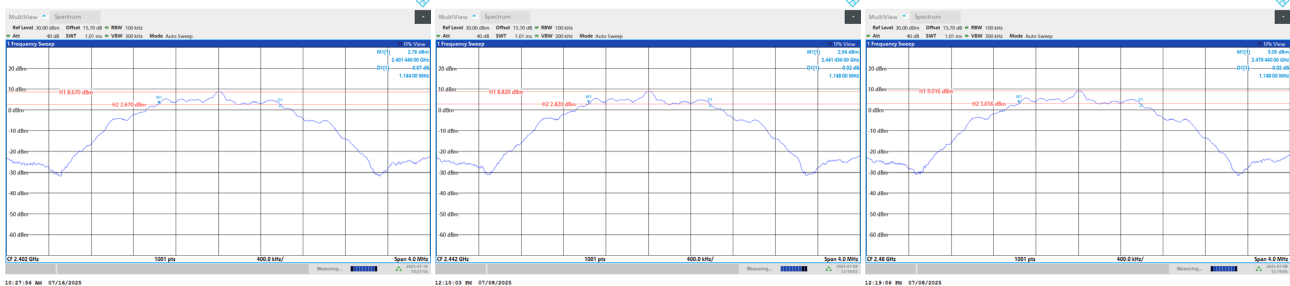
Test Mode	TX Mode_2Mbps
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
37	2402	1.144	2.044	0.5	Pass
19	2442	1.148	2.047	0.5	Pass
39	2480	1.148	2.050	0.5	Pass

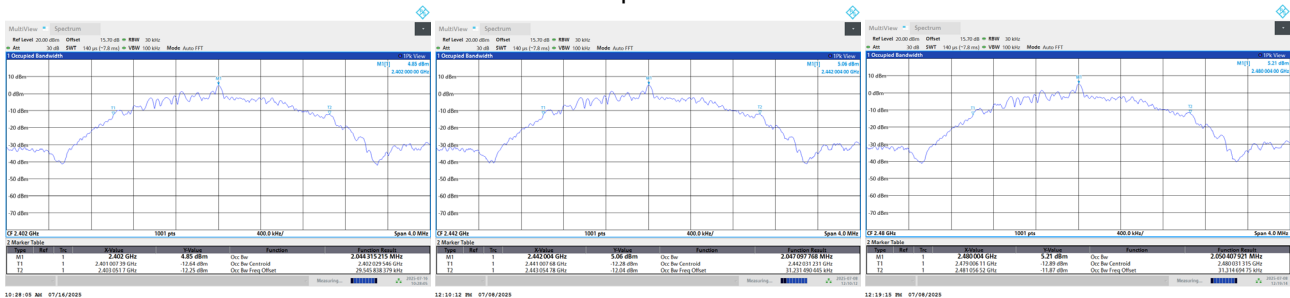
CH37

CH19  
6 dB Bandwidth

CH39



99 % Occupied Bandwidth



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



Test Mode	TX Mode_2Mbps
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Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	8.93	0.0078	30.00	1.0000	Pass
2442	9.07	0.0081	30.00	1.0000	Pass
2480	9.27	0.0085	30.00	1.0000	Pass

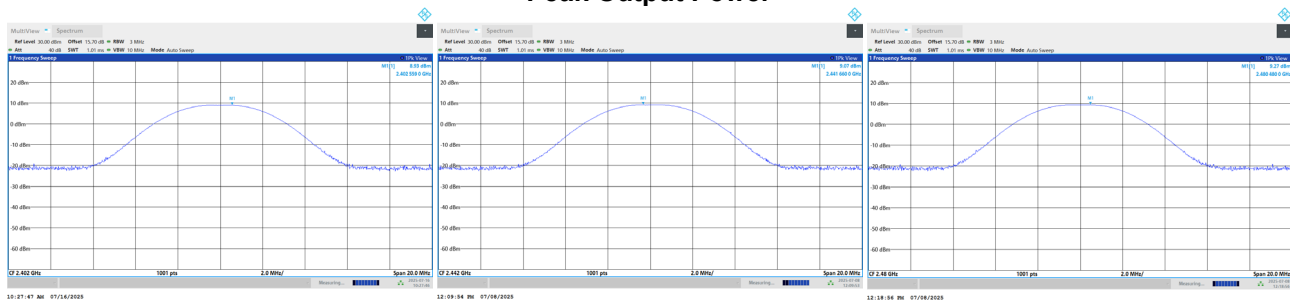
Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	4.18	0.0026	30.00	1.0000	Pass
2442	4.13	0.0026	30.00	1.0000	Pass
2480	4.35	0.0027	30.00	1.0000	Pass

Note: Output power = Measure result + Cable loss

CH37

CH19  
Peak Output Power

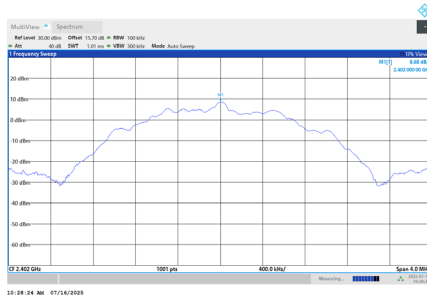
CH39



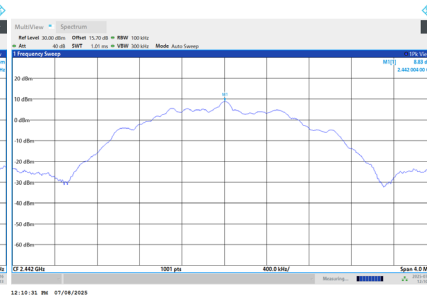
## **APPENDIX G - CONDUCTED SPURIOUS EMISSION**

Test Mode TX Mode\_2Mbps

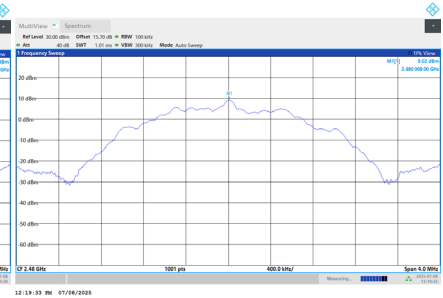
Reference Level-CH37



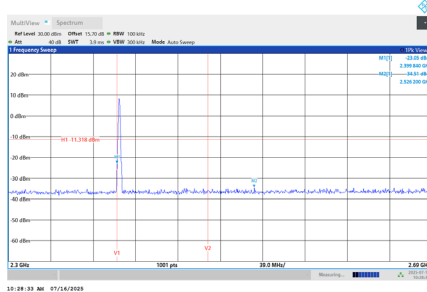
Reference Level-CH19



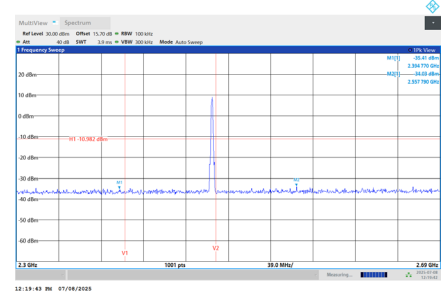
Reference Level-CH39



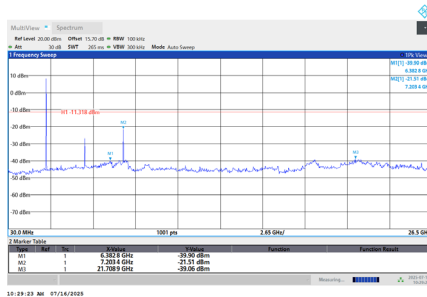
Bandedge-CH37



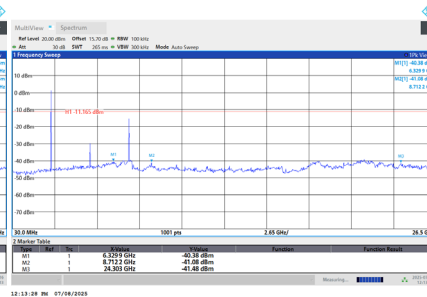
Bandedge-CH39



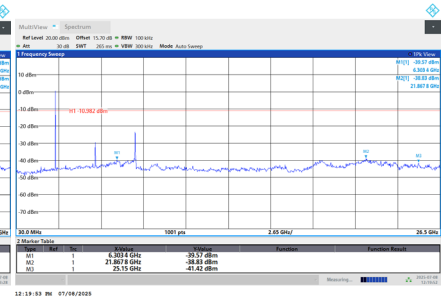
Harmonic-CH37



Harmonic-CH19



Harmonic-CH39

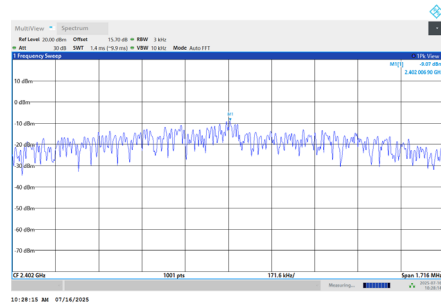


## APPENDIX H - POWER SPECTRAL DENSITY

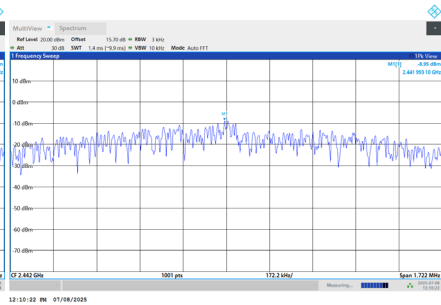
Test Mode	TX Mode_2Mbps
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Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
37	2402	-9.07	8.00	Pass
19	2442	-8.95	8.00	Pass
39	2480	-8.79	8.00	Pass

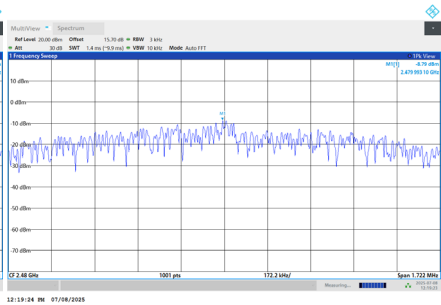
CH37



CH19



CH39



End of Test Report