

# FCC Radio Test Report

## FCC ID: 2ARWD-500WHTX

This report concerns: Original Grant

**Project No.** : 2112C153  
**Equipment** : OMNES Wireless Transmitter  
**Brand Name** : COUGAR  
**Test Model** : CGR-G53B-500WT  
**Series Model** : N/A  
**Applicant** : Compucase Enterprise Co.,Ltd.  
**Address** : No.225,Lane 54,AN HO Road,Sec.2,Tainan,Taiwan  
**Manufacturer** : Compucase Enterprise Co.,Ltd.  
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**Factory** : Pan Chang Enterprise Co.,Ltd.  
**Address** : HeWuJi Industrial District, SiJia Village, ShiJie Town, DongGuan City, GuanDong Province, China  
**Date of Receipt** : Jan. 04, 2022  
**Date of Test** : Apr. 02, 2022 ~ May 24, 2022  
**Issued Date** : Jun. 17, 2022  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG202201055 for conducted, DG202201054 for radiated.  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart C  
FCC KDB 558074 D01 15.247 Meas Guidance v05r02  
ANSI C63.10-2013

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

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TESTING CERT #5123.02

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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-1-2112C153	R00	Original Report.	Jun. 17, 2022	Valid

## 1. 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.

## 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 1.2 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% 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	2.60

### B. Radiated emissions Measurement:

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	4.36
		30MHz ~ 200MHz	H	3.32
		200MHz ~ 1,000MHz	V	4.08
		200MHz ~ 1,000MHz	H	3.96

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 6GHz	3.80
		6GHz ~ 18GHz	4.82

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB03 (1m)	CISPR	18 ~ 26.5 GHz	3.62
		26.5 ~ 40 GHz	4.00

### C. Other Measurement:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Conducted Spurious Emission	±2.71 dB
Power Spectral Density	±0.86 dB
Temperature	±0.08 °C
Humidity	±1.5%

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



### 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	22°C	58%	AC 120V/60Hz	Rod Tang
Radiated Emissions-9 kHz to 30 MHz	22°C	50%	DC 5V	Torocat Yuan
Radiated Emissions-30 MHz to 1000 MHz	21°C	51%	DC 5V	Jakyri Wen
Radiated Emissions-Above 1000 MHz	21°C	51%	DC 5V	Jakyri Wen
Bandwidth	22°C	60%	DC 5V	Ansel Yang
Maximum Output Power	22°C	60%	DC 5V	Ansel Yang
Conducted Spurious Emission	22°C	60%	DC 5V	Ansel Yang
Power Spectral Density	22°C	60%	DC 5V	Ansel Yang

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	OMNES Wireless Transmitter
Brand Name	COUGAR
Test Model	CGR-G53B-500WT
Series Model	N/A
Model Difference(s)	N/A
Power Source	Supplied from PC USB port.
Power Rating	DC 5V 500mA
Operation Frequency	2403 MHz ~ 2478 MHz
Modulation Type	GFSK
Bit Rate of Transmitter	3Mbps
Max. Peak Output Power	3Mbps: 6.34 dBm (0.0043 W)
Max. Average Output Power	3Mbps: 5.50 dBm (0.0035 W)

Note:

- 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)	Channel	Frequency (MHz)
01	2403	10	2430	19	2457
02	2406	11	2433	20	2460
03	2409	12	2436	21	2463
04	2412	13	2439	22	2466
05	2415	14	2442	23	2469
06	2418	15	2445	24	2472
07	2421	16	2448	25	2475
08	2424	17	2451	26	2478
09	2427	18	2454		

#### 3. Table for Filed Antenna:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	SHEN ZHEN YINGFENG ANTENNA TECHNOLOGY CO., LTD	YF5020H1R2G4502	Chip	SMA female	2.5

Note: The antenna gain is provided by the manufacturer.

## 2.2 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_3Mbps Channel 01/13/26
Mode 2	TX Mode_3Mbps Channel 01

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_3Mbps Channel 01

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 2	TX Mode_3Mbps Channel 01

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX Mode_3Mbps Channel 01/13/26

Conducted test	
Final Test Mode	Description
Mode 1	TX Mode_3Mbps Channel 01/13/26

Note:

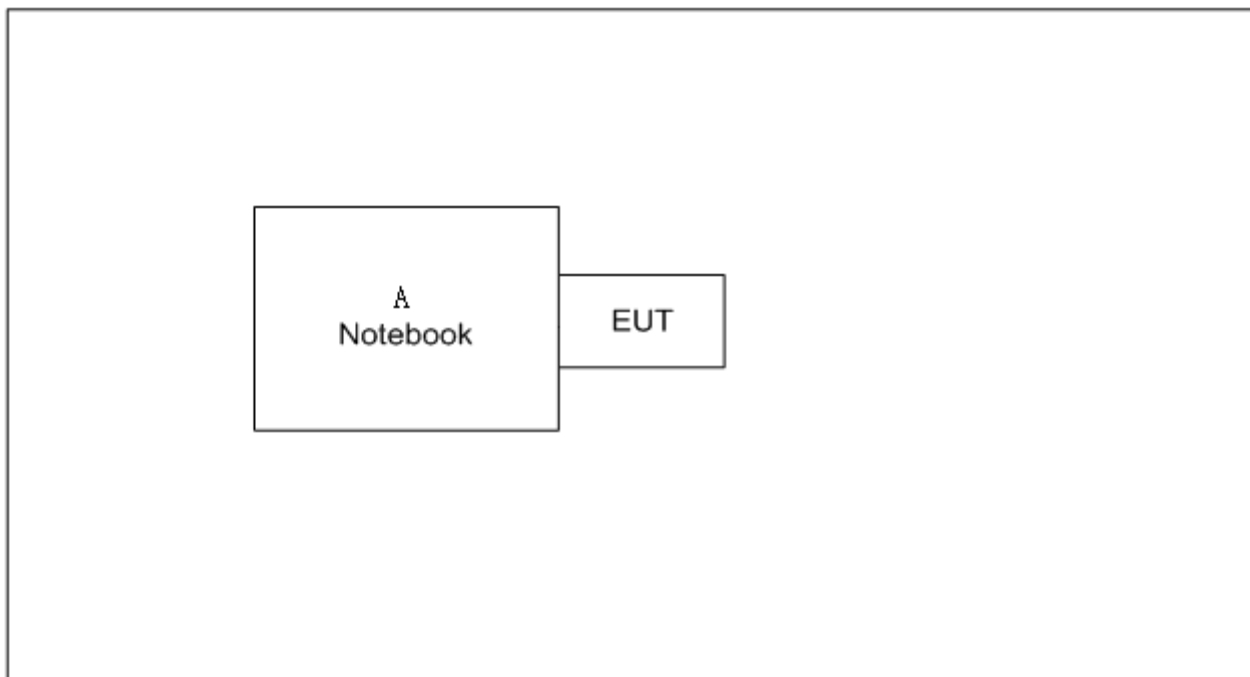
- (1) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) For AC power line conducted emissions and radiated emissions below 1 GHz test, the 3Mbps Channel 01 is found to be the worst case and recorded.

## 2.3 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	N/A		
Frequency (MHz)	2403	2439	2478
3Mbps	Default	Default	Default

## 2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.5 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Note
A	Notebook	Lenovo	E40-70	N/A	AC power line conducted emissions test and Radiated emissions test - 9 kHz to 30 MHz
	Notebook	HONOR	NBLK-WAX9X	N/A	Radiated emissions test - Above 30 MHz

Item	Cable Type	Shielded Type	Ferrite Core	Length
-	-	-	-	-

### 3. AC POWER LINE CONDUCTED EMISSIONS

#### 3.1 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.

#### 3.2 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.

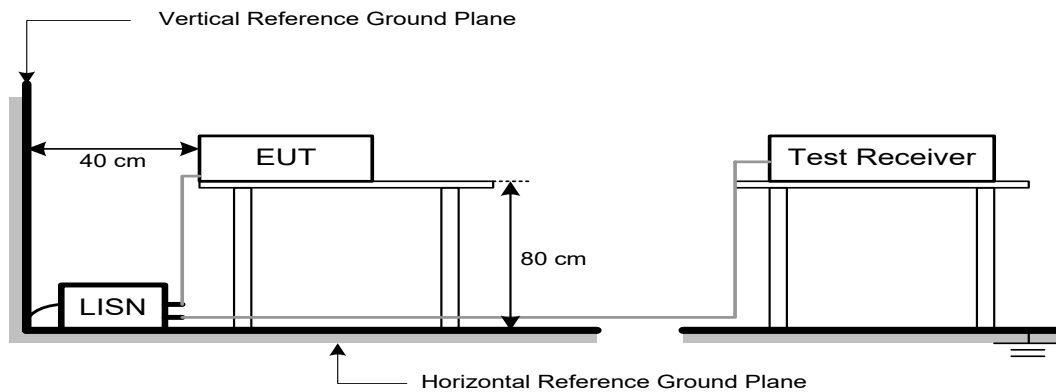
The following table is the setting of the receiver:

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

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

### 3.4 TEST SETUP



### 3.5 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.

### 3.6 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.

## 4. RADIATED EMISSIONS

### 4.1 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)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

**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).

## 4.2 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 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 1 GHz)
- 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

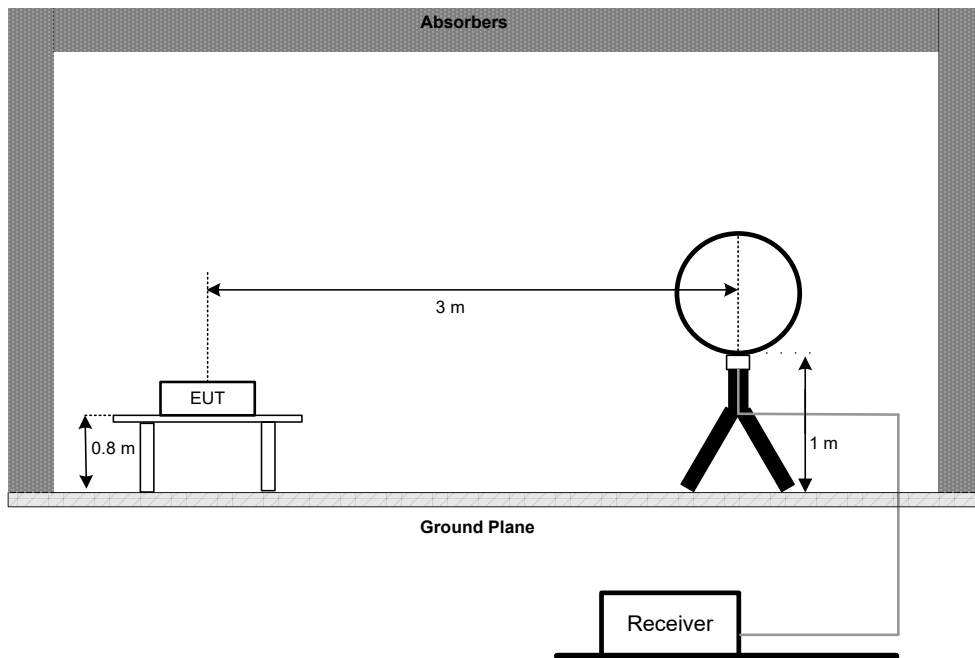


#### 4.3 DEVIATION FROM TEST STANDARD

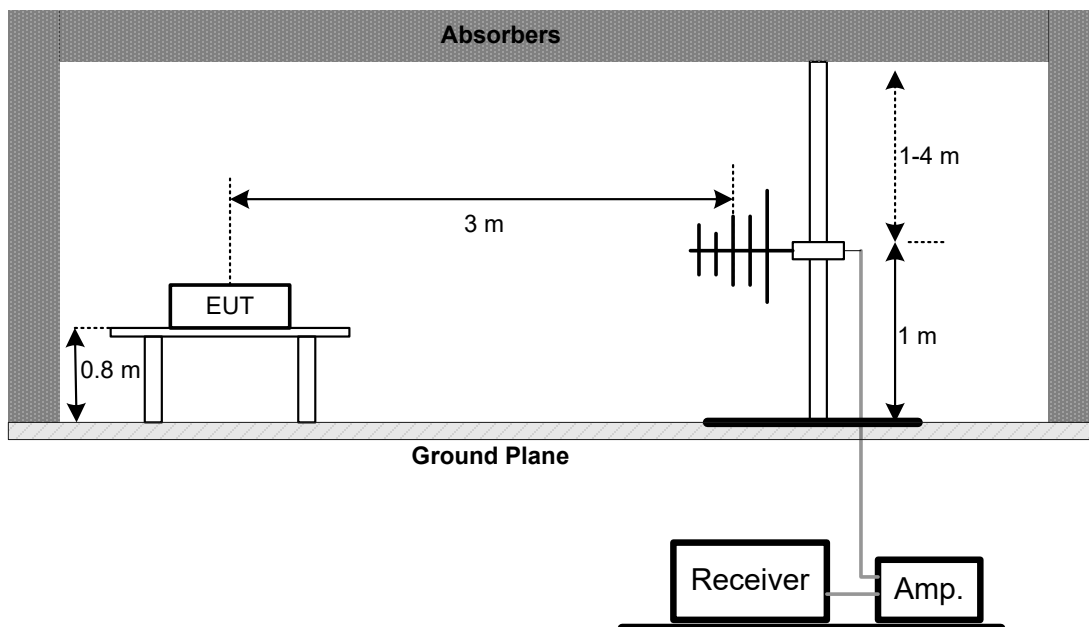
No deviation.

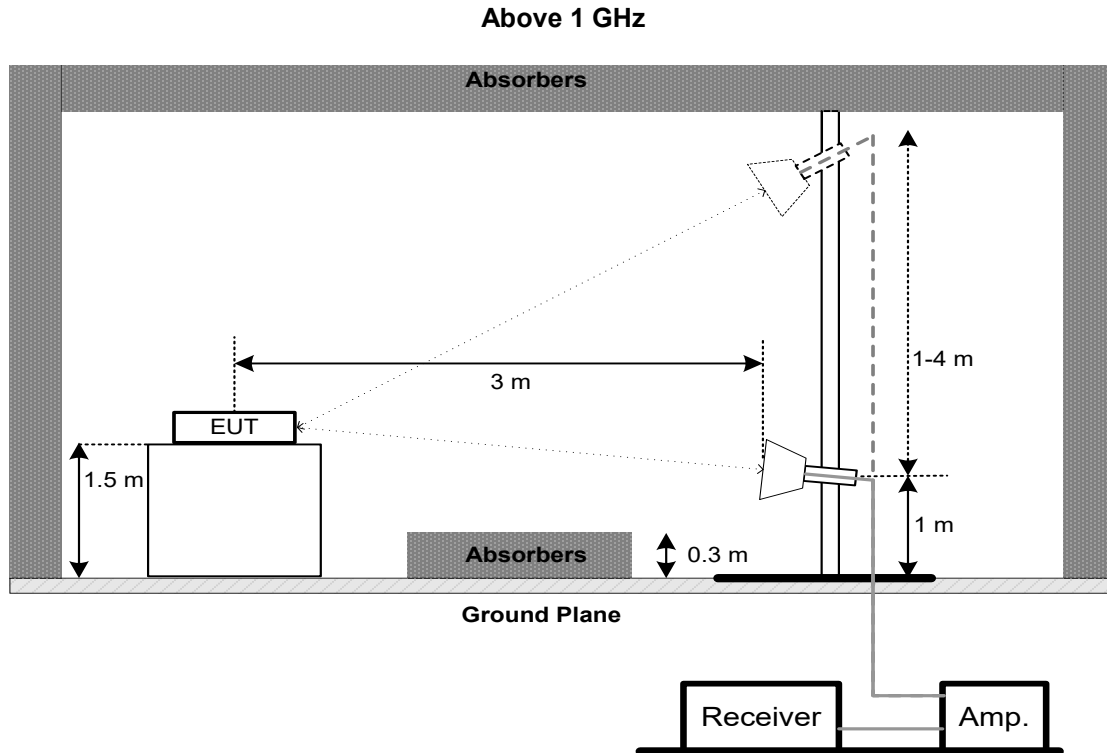
#### 4.4 TEST SETUP

##### 9 kHz to 30 MHz



##### 30 MHz to 1 GHz





#### 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 4.6 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.

#### 4.7 TEST RESULT - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

#### 4.8 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.

## 5. BANDWIDTH

### 5.1 LIMIT

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

### 5.2 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

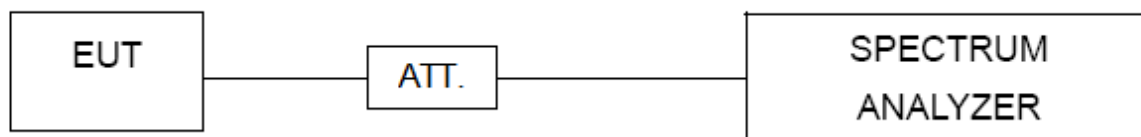
For 99% Emission Bandwidth:

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

### 5.3 DEVIATION FROM STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULTS

Please refer to the APPENDIX E.

## 6. MAXIMUM OUTPUT POWER

### 6.1 LIMIT

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

### 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:

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

## 7. CONDUCTED SPURIOUS EMISSION

### 7.1 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.

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

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX G.

## 8. POWER SPECTRAL DENSITY

### 8.1 LIMIT

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

### 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
Span Frequency	4 MHz (3 Mbps)
RBW	3 kHz
VBW	10 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 H.

## 9. 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	Jan. 22, 2023
2	LISN	EMCO	3816/2	52765	Jan. 22, 2023
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	Jan. 22, 2023
4	50Ω Terminator	SHX	TF5-3	15041305	N/A
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 08, 2023
7	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	MXE EMI Receiver	Keysight	N9038A	MY56400091	Jan. 22, 2023
2*	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 23, 2024
3	Cable	N/A	RG 213/U(9kHz~1GHz)	N/A	May 27, 2022
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	966 Chamber Room	ETS	9*6*6	N/A	Jul. 17, 2022

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 03, 2023
2	Amplifier	HP	8447D	2944A08742	Jan. 22, 2023
3	Cable	emci	LMR-400	N/A	Nov. 30, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
8	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Horn Antenna	ARA	DRG-118A	16554	Apr. 18, 2022 Apr. 18, 2023
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2022
3	Amplifier	Agilent	8449B	3008A02584	Jul. 10, 2022
4	Controller	CT	SC100	N/A	N/A
5	Controller	MF	MF-7802	MF780208416	N/A
6	Receiver	Agilent	N9038A	MY52130039	Jan. 22, 2023
7	EXA Spectrum Analyzer	Keysight	N9010A	MY56480488	Jan. 22, 2023
8	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 16, 2022
9	Cable	N/A	A81-SMAMSMAM-12.5M	N/A	Oct. 15, 2022
10	Cable	Talent microwave	A40-2.92M2.92M-2.5M	N/A	Nov. 30, 2022
11	Filter	STI	STI15-9912	N/A	Jul. 10, 2022
12	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
13	966 Chamber Room	RM	9*6*6	N/A	Jul. 24, 2022

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	Jul. 10, 2022
2	Attenuator	WOKEN	6SM3502	VAS1214NL	N/A
3	RF Cable	Tongkaichuan	N/A	N/A	N/A
4	DC Block	Mini	N/A	N/A	N/A

Remark: "N/A" denotes no model name, serial no. or calibration specified.

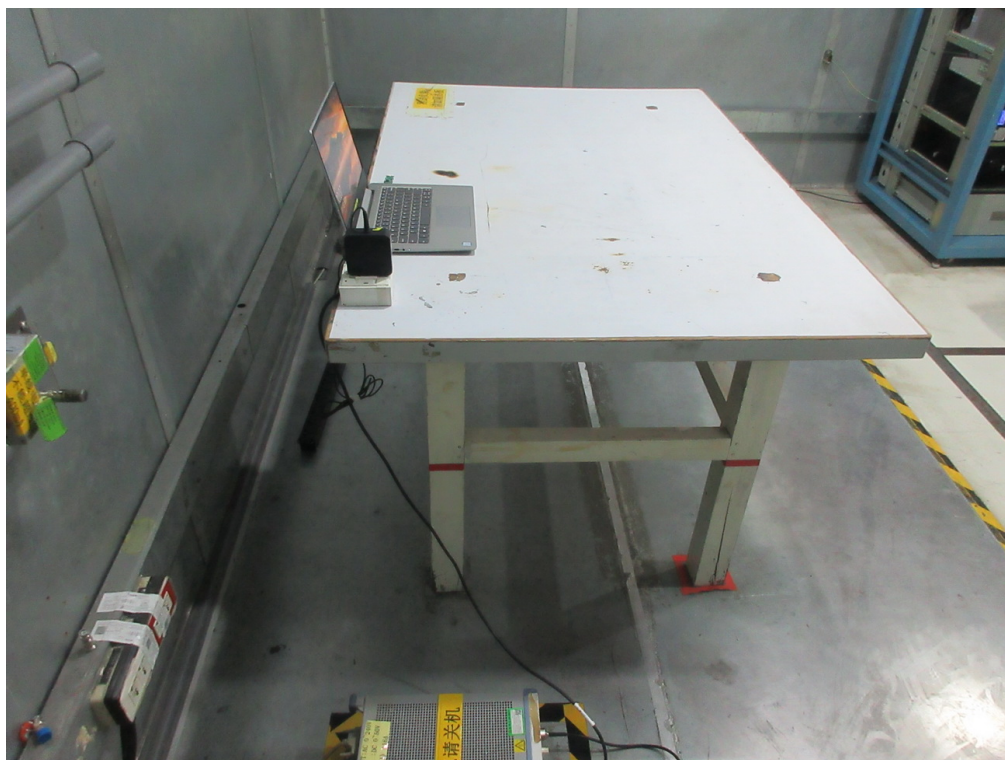
"\*\*" calibration period of equipment list is three year.

Except \* item, all calibration period of equipment list is one year.



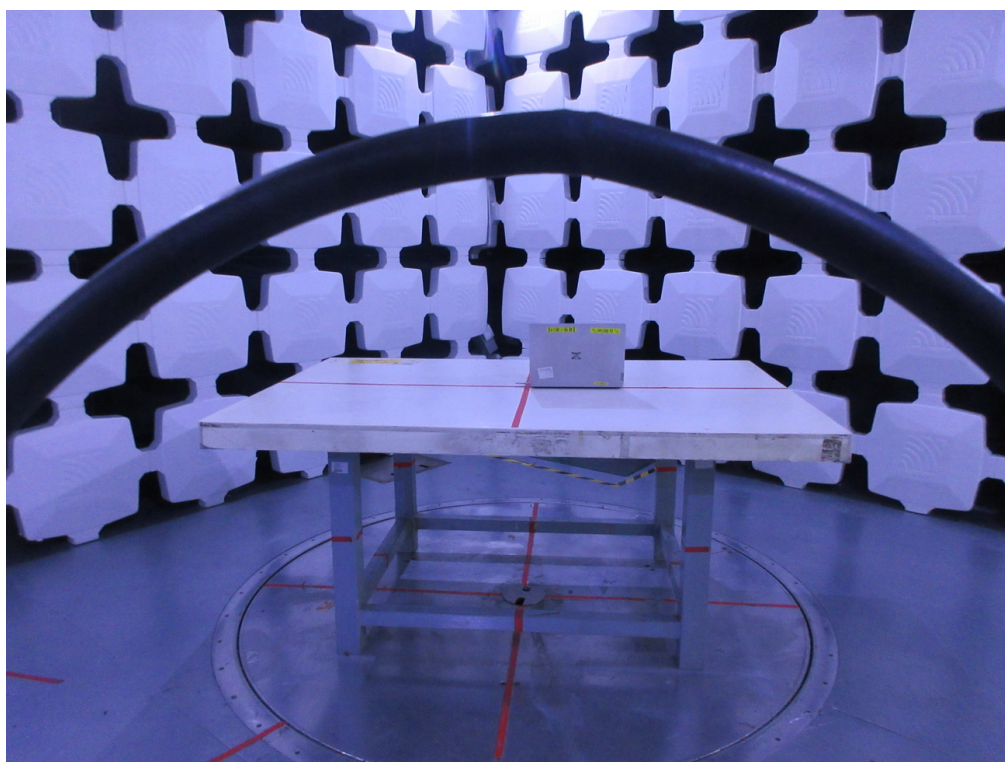
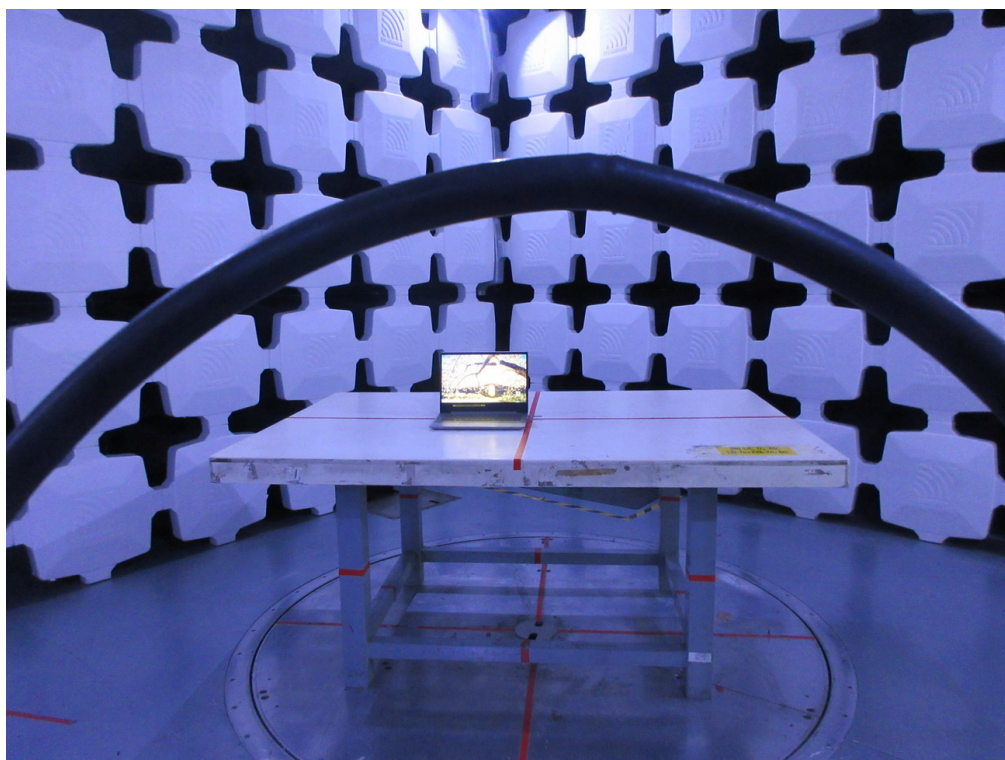
## 10. EUT TEST PHOTO

### AC Power Line Conducted Emissions Test Photos



# Radiated Emissions Test Photos

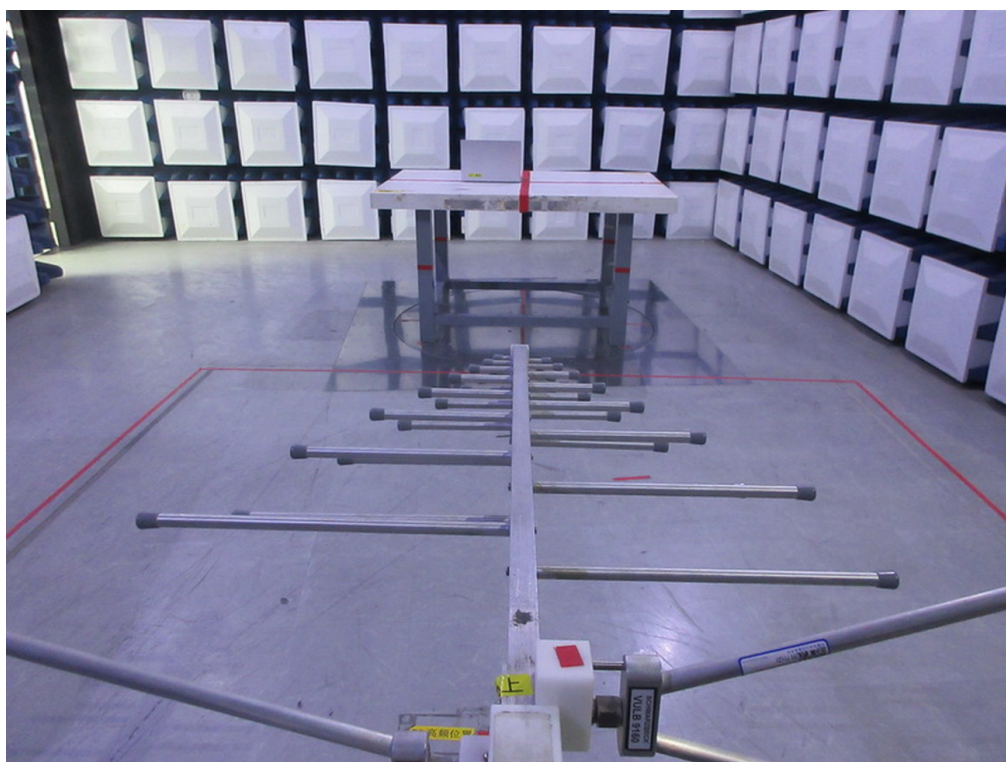
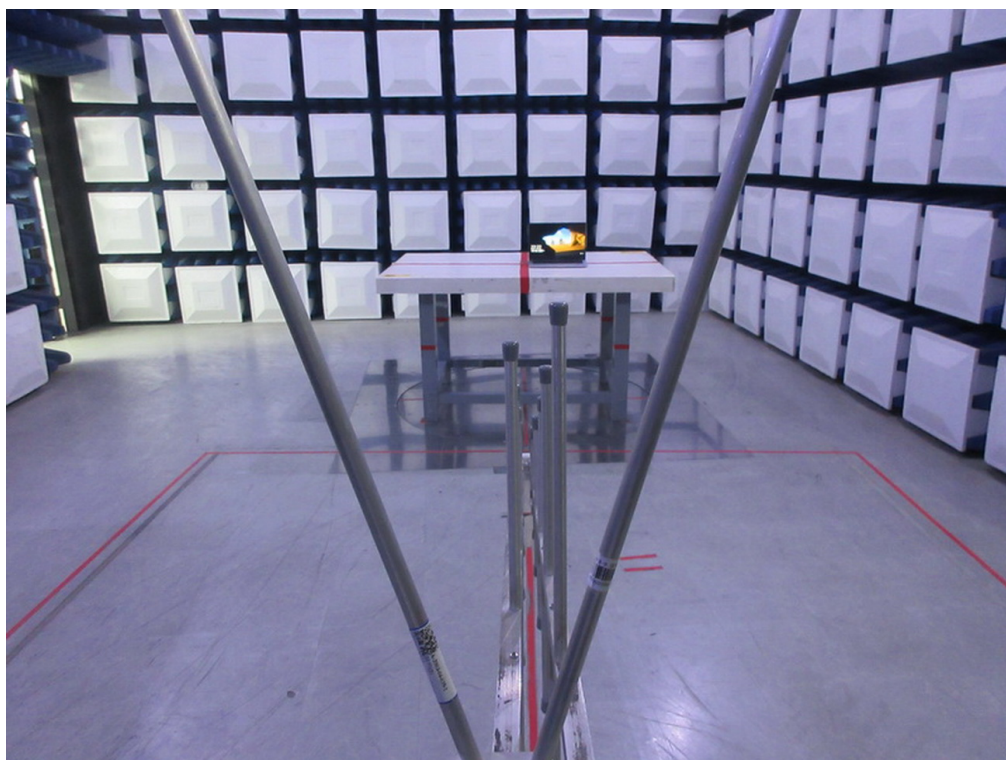
9 kHz to 30 MHz

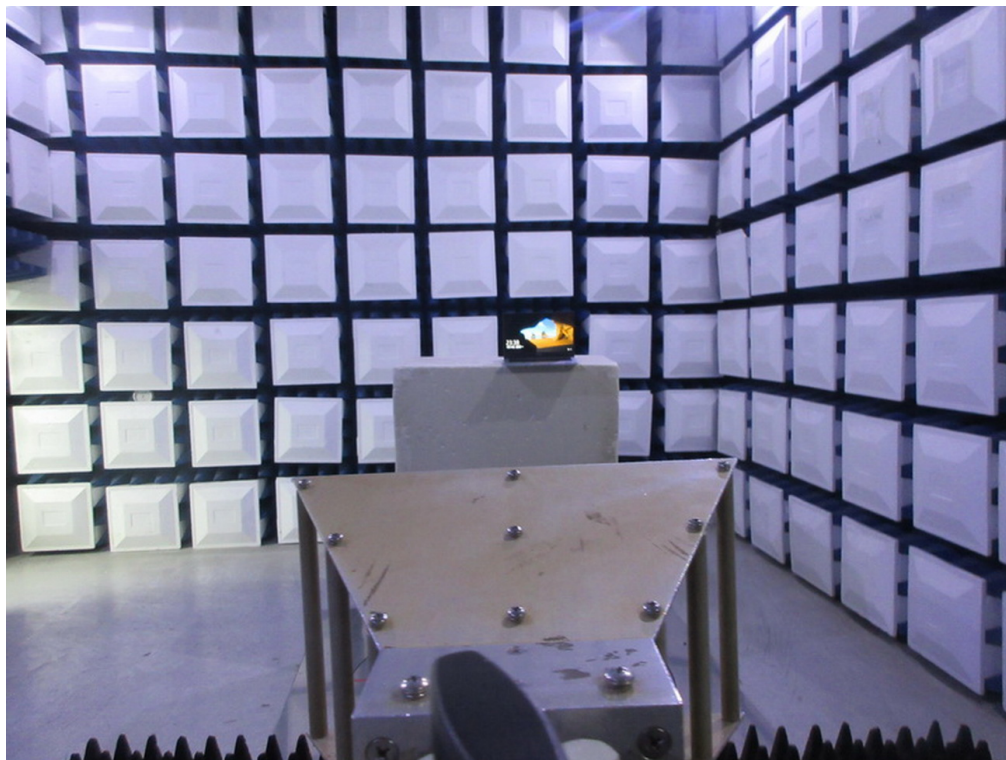




## Radiated Emissions Test Photos

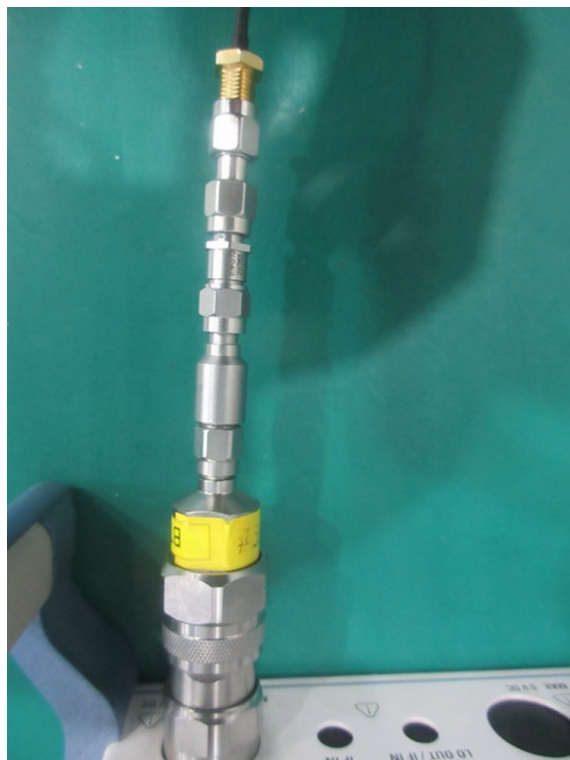
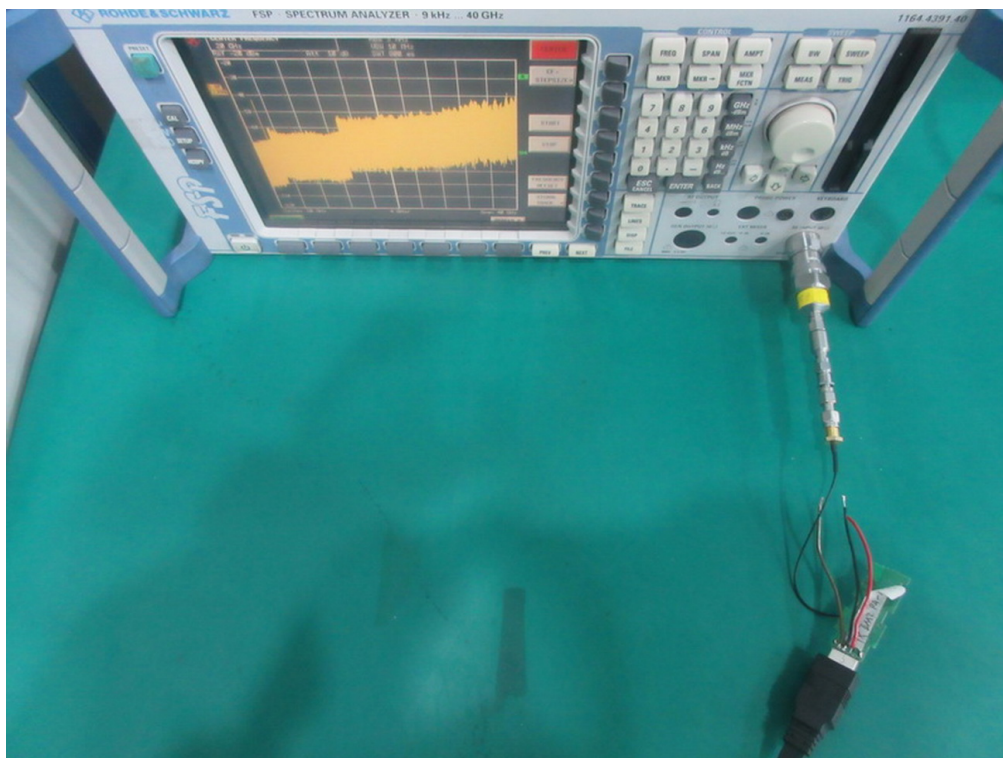
30 MHz to 1000 MHz



**Radiated Emissions Test Photos****Above 1 GHz**

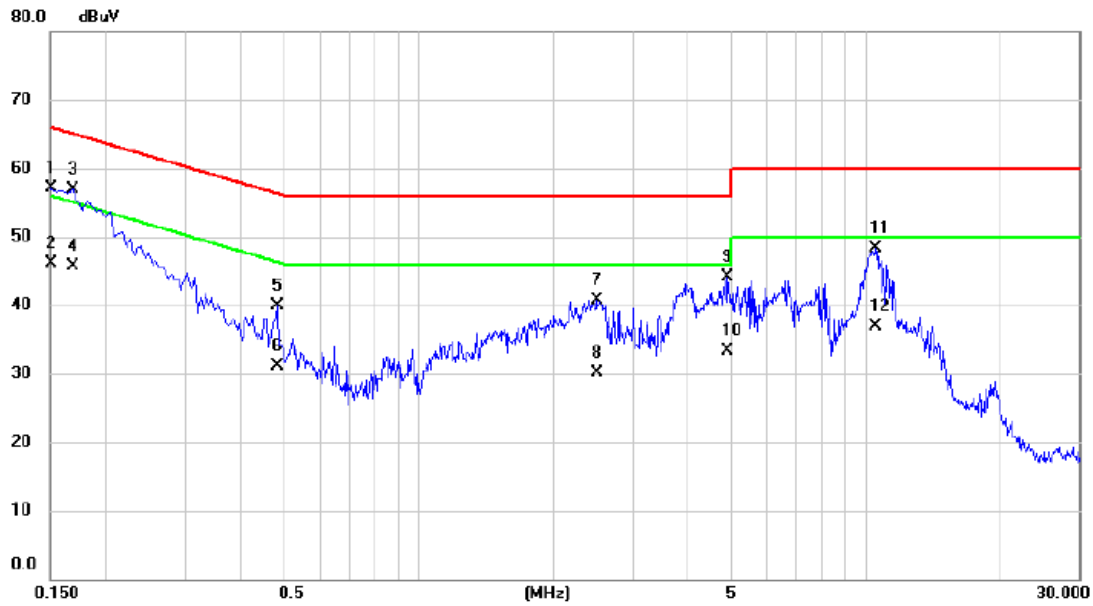


## Conducted Test Photos



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

Test Mode	TX Mode_3Mbps Channel 01	Phase	Line
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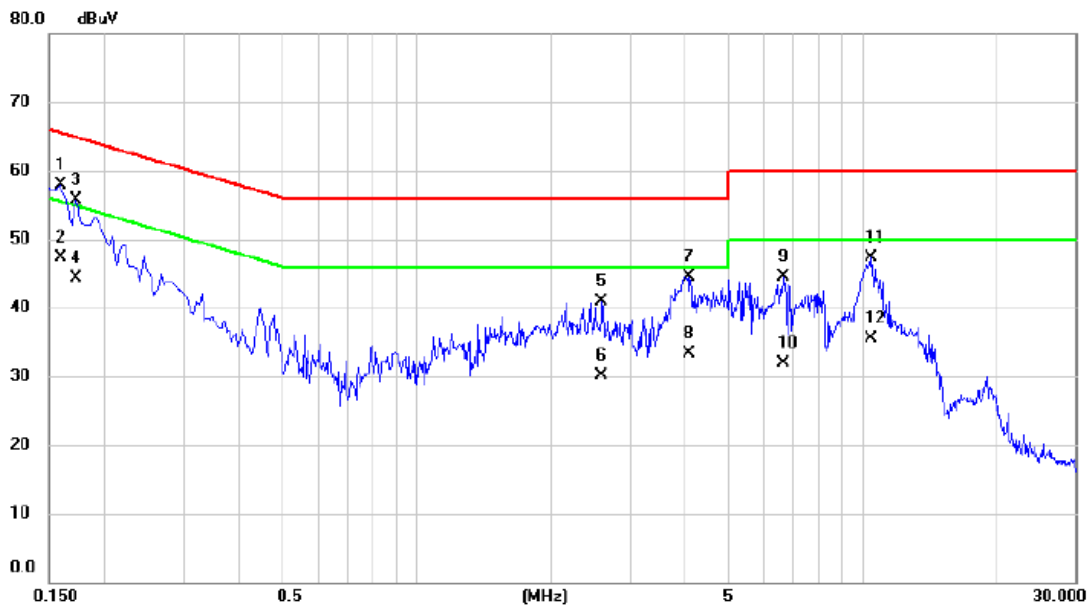


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	47.40	9.66	57.06	66.00	-8.94	QP	
2		0.1500	36.50	9.66	46.16	56.00	-9.84	AVG	
3	*	0.1680	47.17	9.67	56.84	65.06	-8.22	QP	
4		0.1680	36.10	9.67	45.77	55.06	-9.29	AVG	
5		0.4830	30.22	9.76	39.98	56.29	-16.31	QP	
6		0.4830	21.30	9.76	31.06	46.29	-15.23	AVG	
7		2.5080	30.80	9.93	40.73	56.00	-15.27	QP	
8		2.5080	20.10	9.93	30.03	46.00	-15.97	AVG	
9		4.9020	34.04	10.12	44.16	56.00	-11.84	QP	
10		4.9020	23.20	10.12	33.32	46.00	-12.68	AVG	
11		10.4730	37.82	10.49	48.31	60.00	-11.69	QP	
12		10.4730	26.50	10.49	36.99	50.00	-13.01	AVG	

## REMARKS:

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

Test Mode	TX Mode_3Mbps Channel 01	Phase	Neutral
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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1590	48.18	9.71	57.89	65.52	-7.63	QP	
2		0.1590	37.60	9.71	47.31	55.52	-8.21	AVG	
3		0.1725	45.91	9.71	55.62	64.84	-9.22	QP	
4		0.1725	34.50	9.71	44.21	54.84	-10.63	AVG	
5		2.5980	30.99	9.97	40.96	56.00	-15.04	QP	
6		2.5980	20.20	9.97	30.17	46.00	-15.83	AVG	
7		4.0650	34.51	10.08	44.59	56.00	-11.41	QP	
8		4.0650	23.20	10.08	33.28	46.00	-12.72	AVG	
9		6.6480	34.23	10.29	44.52	60.00	-15.48	QP	
10		6.6480	21.60	10.29	31.89	50.00	-18.11	AVG	
11		10.4415	36.73	10.49	47.22	60.00	-12.78	QP	
12		10.4415	25.10	10.49	35.59	50.00	-14.41	AVG	

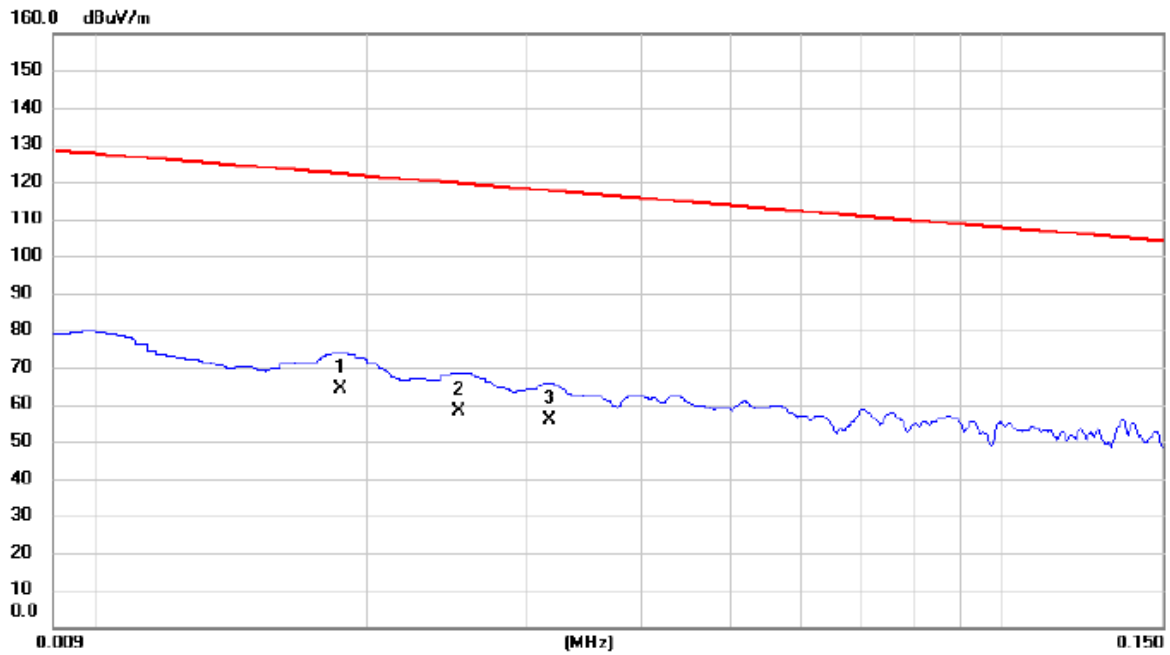
## REMARKS:

- (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_3Mbps Channel 01	Polarization	Ant 0°
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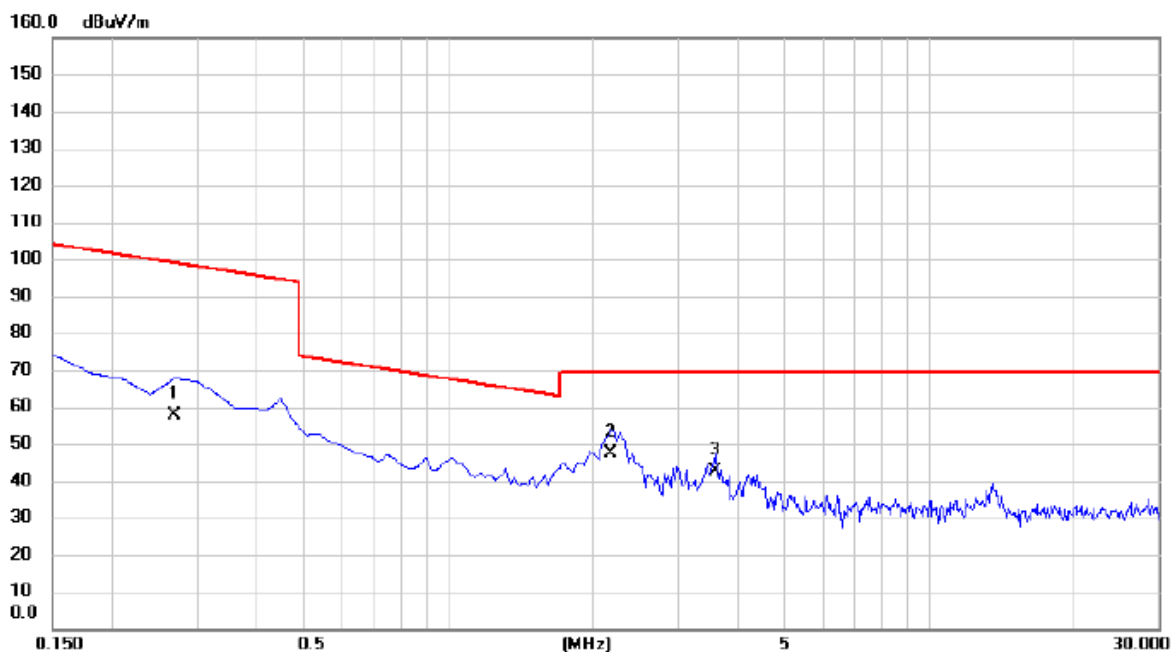


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0187	49.32	14.70	64.02	122.17	-58.15	AVG	
2		0.0252	44.21	14.17	58.38	119.58	-61.20	AVG	
3		0.0317	41.96	14.02	55.98	117.58	-61.60	AVG	

## REMARKS:

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

Test Mode	TX Mode_3Mbps Channel 01	Polarization	Ant 0°
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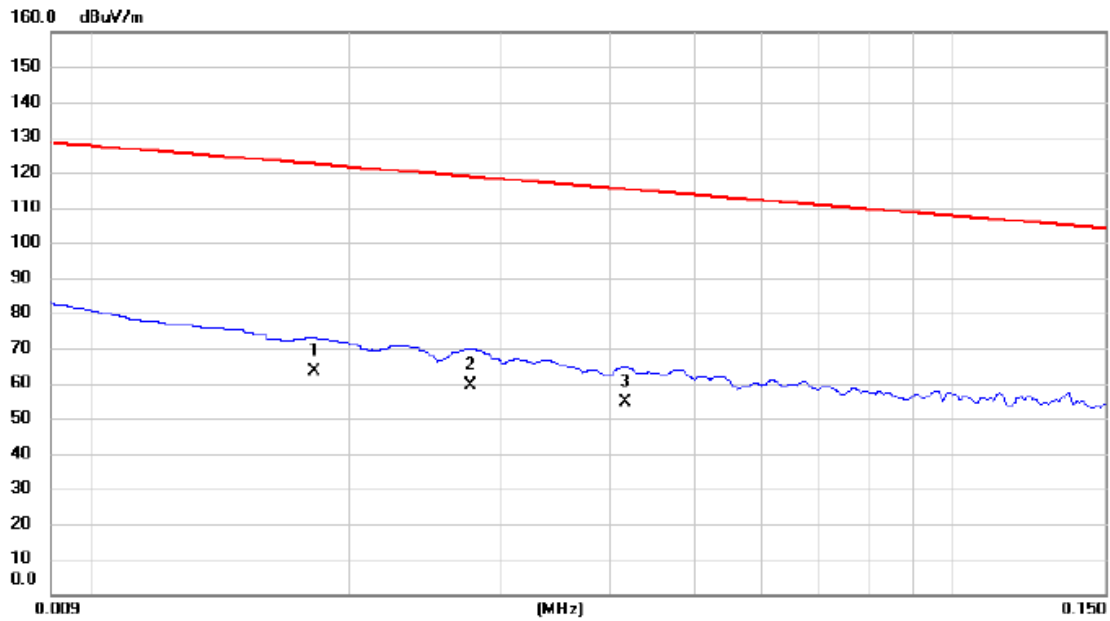


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2694	44.40	13.58	57.98	99.00	-41.02	AVG	
2	*	2.1798	35.28	12.02	47.30	69.54	-22.24	QP	
3		3.5827	30.96	11.72	42.68	69.54	-26.86	QP	

## REMARKS:

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

Test Mode	TX Mode_3Mbps Channel 01	Polarization	Ant 90°
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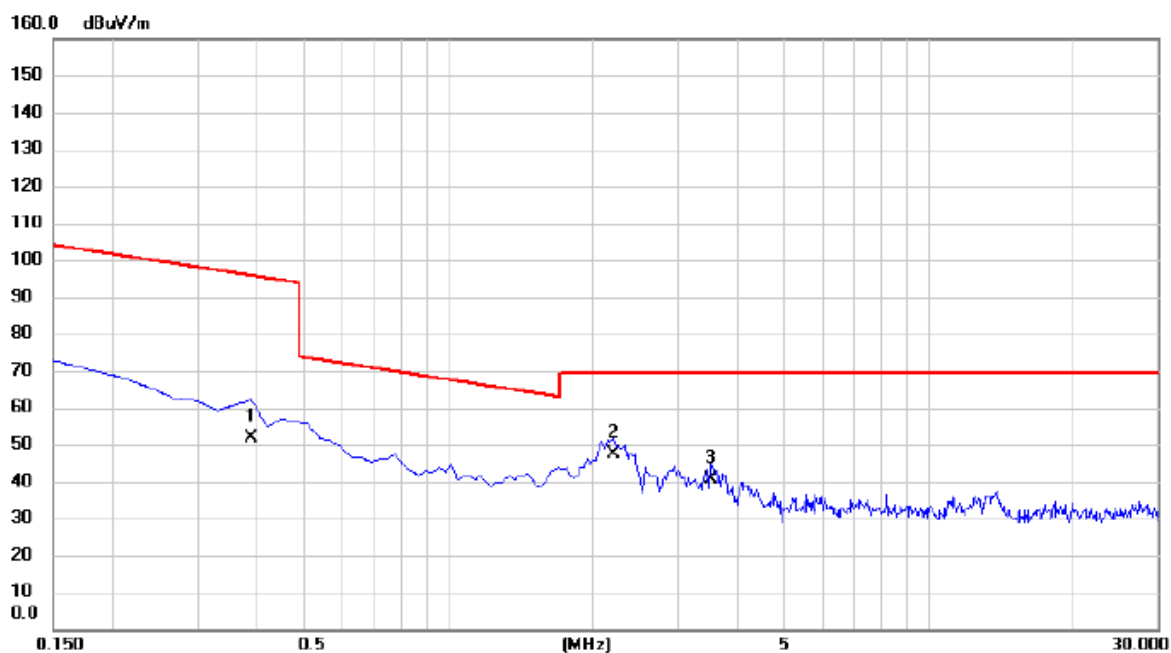


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0182	48.36	14.86	63.22	122.40	-59.18	AVG	
2		0.0276	45.21	14.12	59.33	118.79	-59.46	AVG	
3		0.0416	40.96	13.79	54.75	115.22	-60.47	AVG	

## REMARKS:

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

Test Mode	TX Mode_3Mbps Channel 01	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		0.3887	38.21	13.47	51.68	95.81	-44.13	AVG	
2	*	2.2096	35.22	12.01	47.23	69.54	-22.31	QP	
3		3.5230	28.96	11.72	40.68	69.54	-28.86	QP	

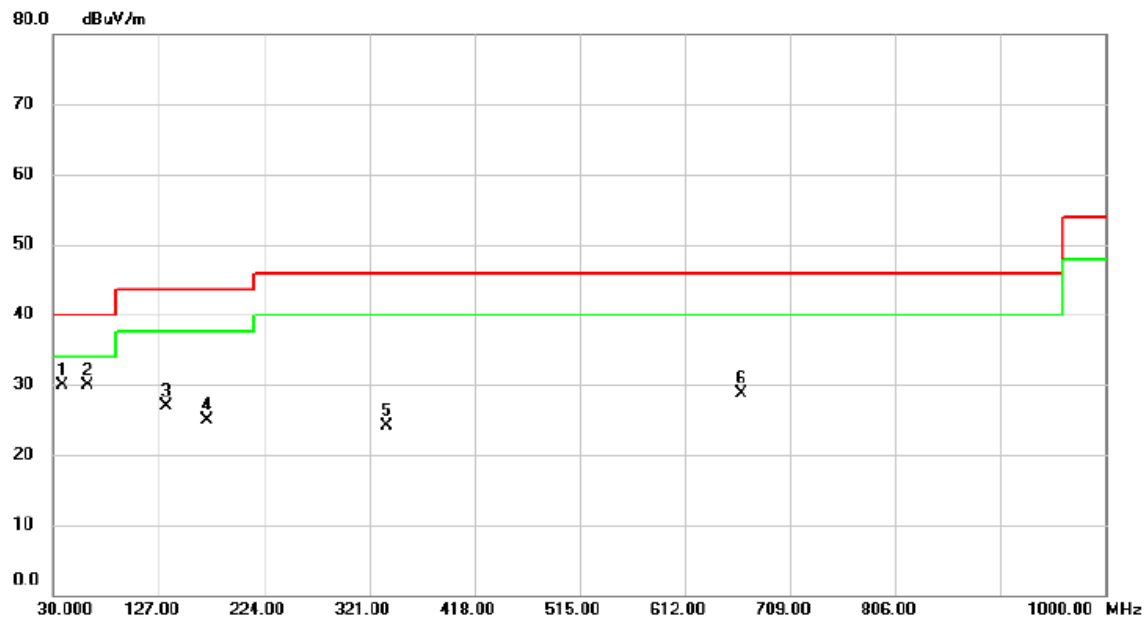
## REMARKS:

(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_3Mbps Channel 01	Polarization	Vertical
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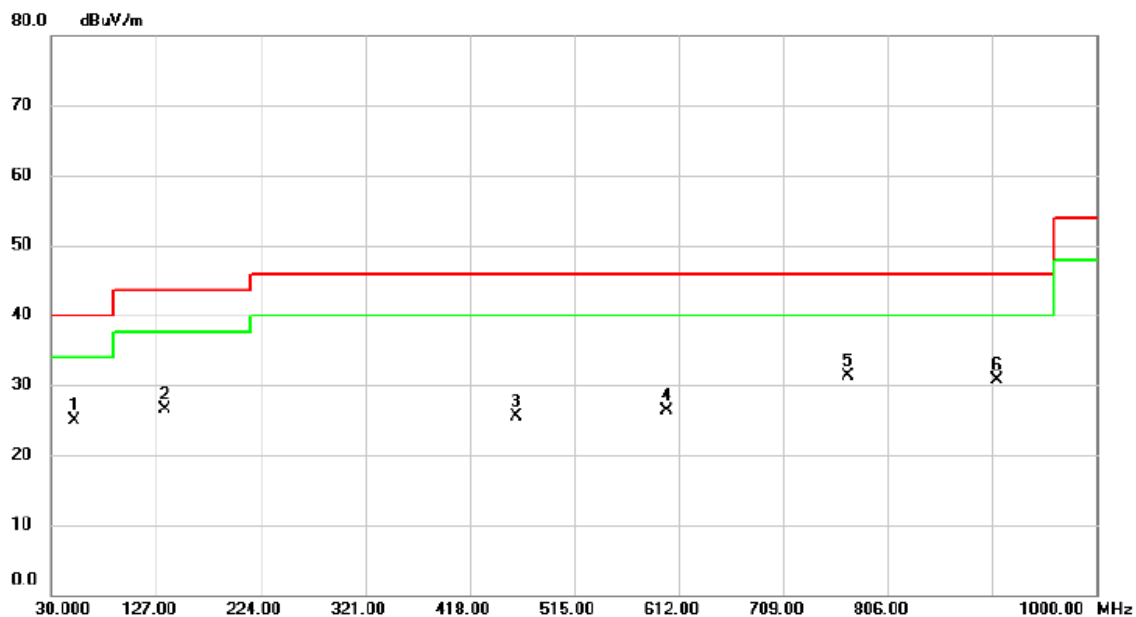


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	37.760	44.59	-14.70	29.89	40.00	-10.11	peak	
2		62.010	44.61	-14.77	29.84	40.00	-10.16	peak	
3		133.790	40.13	-13.20	26.93	43.50	-16.57	peak	
4		171.620	37.69	-12.75	24.94	43.50	-18.56	peak	
5		336.520	34.42	-10.22	24.20	46.00	-21.80	peak	
6		664.380	32.16	-3.54	28.62	46.00	-17.38	peak	

## REMARKS:

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

Test Mode	TX Mode_3Mbps Channel 01	Polarization	Horizontal
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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		51.340	38.63	-13.78	24.85	40.00	-15.15	peak	
2		135.730	39.65	-13.10	26.55	43.50	-16.95	peak	
3		460.680	32.81	-7.22	25.59	46.00	-20.41	peak	
4		600.360	30.90	-4.55	26.35	46.00	-19.65	peak	
5	*	769.140	32.73	-1.45	31.28	46.00	-14.72	peak	
6		906.880	30.24	0.48	30.72	46.00	-15.28	peak	

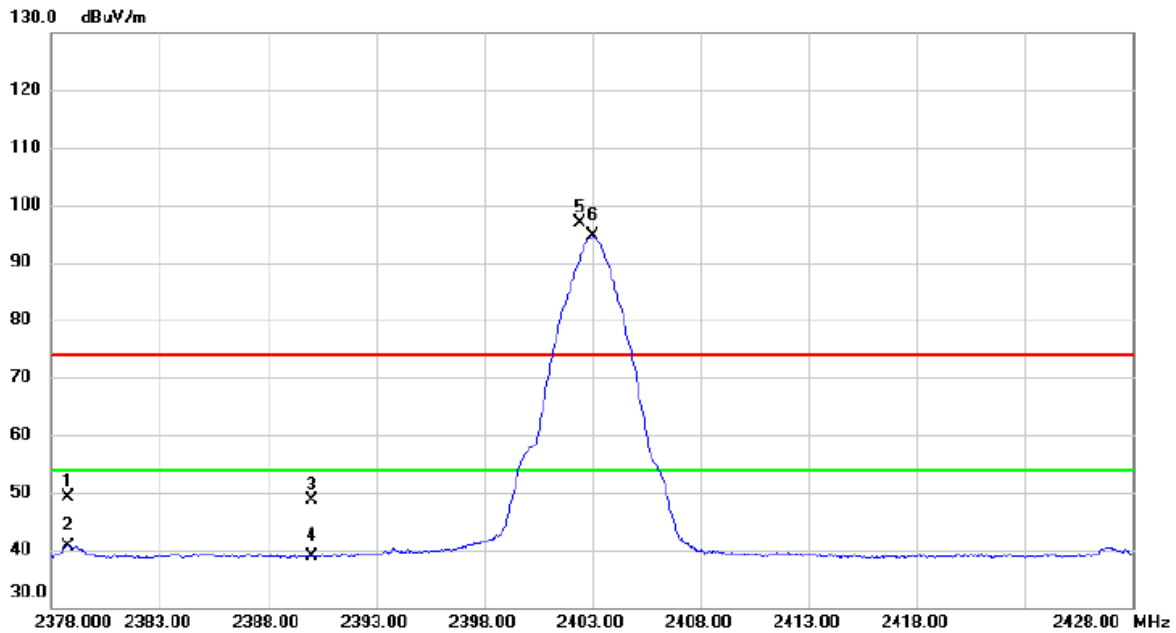
## REMARKS:

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



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

Test Mode	TX 2403 MHz _CH01_3Mbps	Polarization	Vertical
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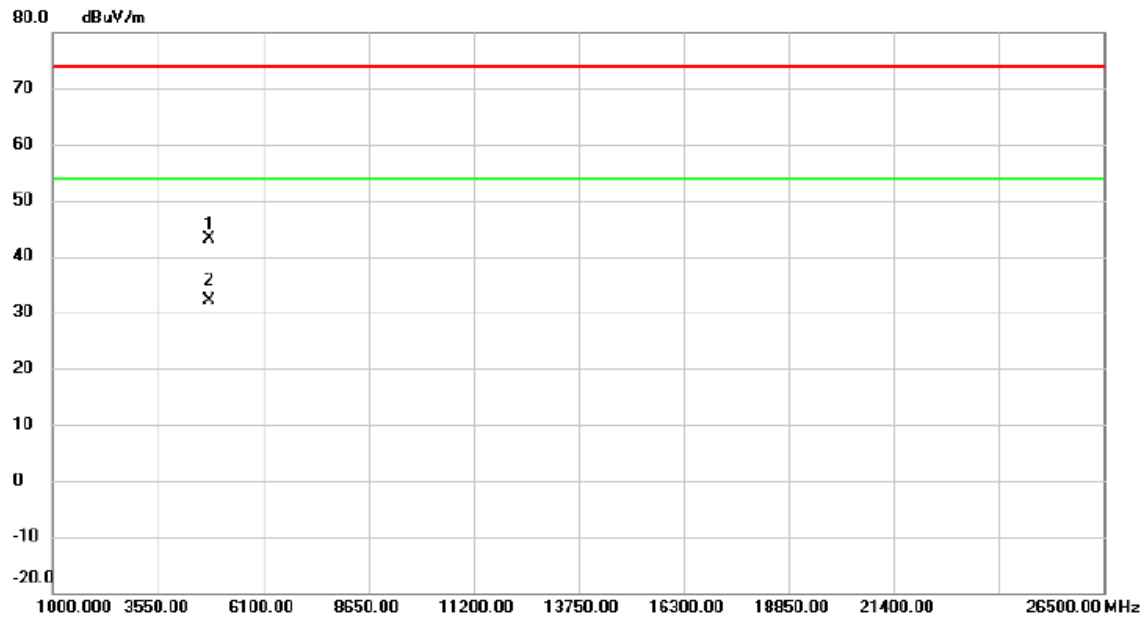


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2378.750	41.94	7.27	49.21	74.00	-24.79	peak	
2		2378.750	33.48	7.27	40.75	54.00	-13.25	AVG	
3		2390.000	41.46	7.27	48.73	74.00	-25.27	peak	
4		2390.000	31.66	7.27	38.93	54.00	-15.07	AVG	
5	X	2402.450	89.50	7.28	96.78	74.00	22.78	peak	No Limit
6	*	2403.000	87.28	7.28	94.56	54.00	40.56	AVG	No Limit

## REMARKS:

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

Test Mode	TX 2403 MHz _CH01_3Mbps	Polarization	Vertical
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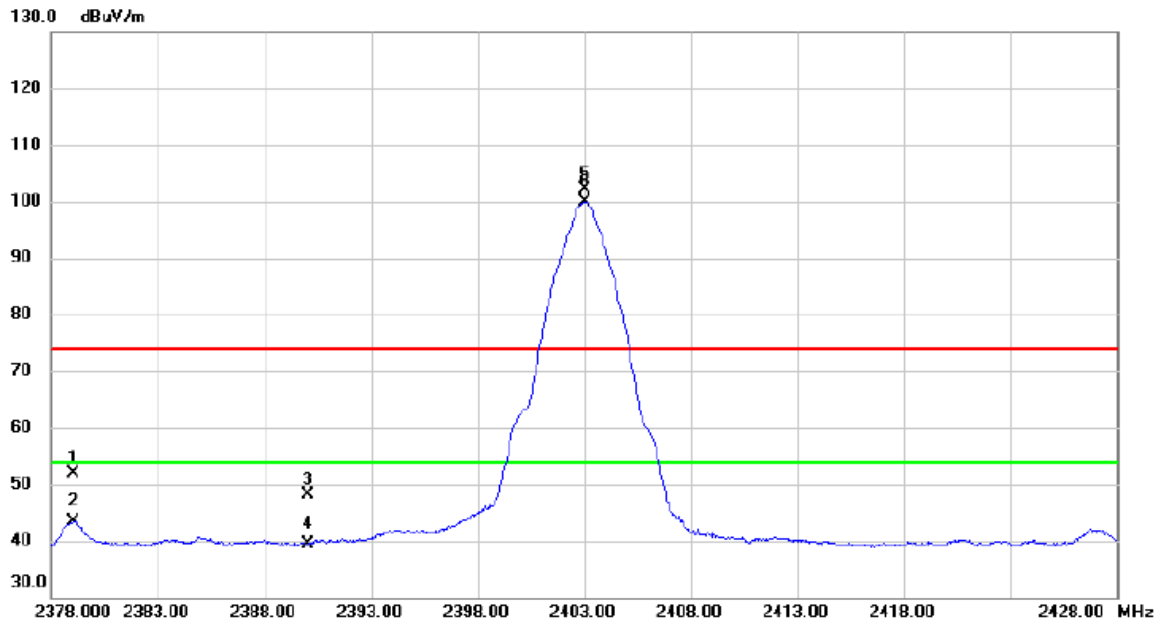


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4803.825	38.92	4.29	43.21	74.00	-30.79	peak	
2	*	4806.280	27.88	4.30	32.18	54.00	-21.82	AVG	

## REMARKS:

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

Test Mode	TX 2403 MHz _CH01_3Mbps	Polarization	Horizontal
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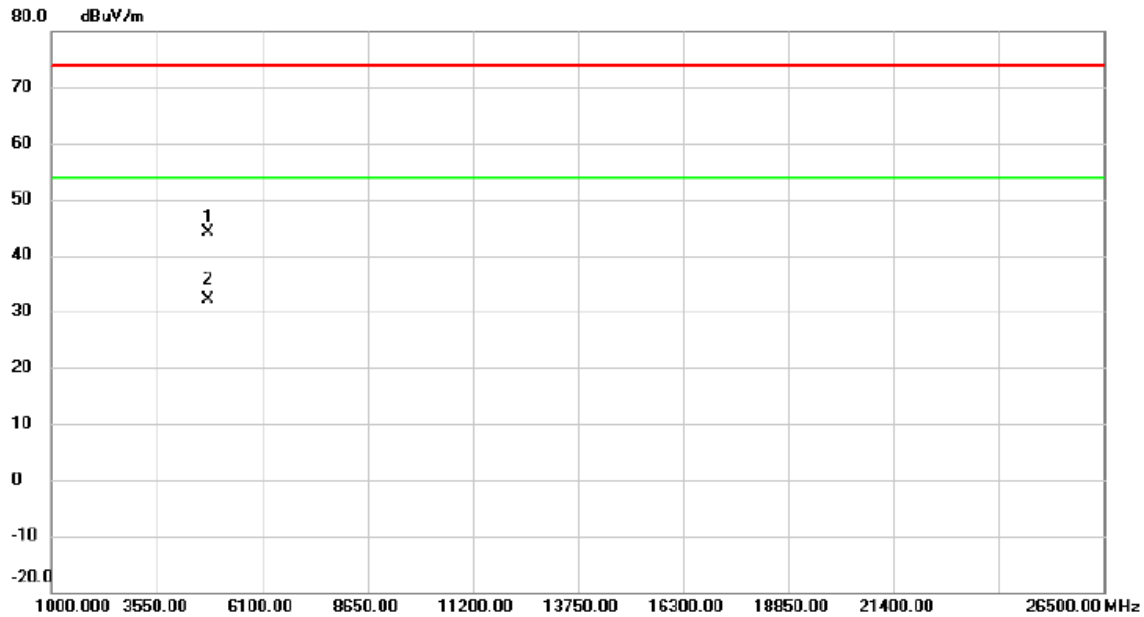
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2379.000	44.63	7.27	51.90	74.00	-22.10	peak	
2		2379.000	36.20	7.27	43.47	54.00	-10.53	AVG	
3		2390.000	40.95	7.27	48.22	74.00	-25.78	peak	
4		2390.000	32.12	7.27	39.39	54.00	-14.61	AVG	
5	X	2403.000	94.92	7.28	102.20	74.00	28.20	peak	No Limit
6	*	2403.050	92.55	7.28	99.83	54.00	45.83	AVG	No Limit

## REMARKS:

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

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

Test Mode	TX 2403 MHz _CH01_3Mbps	Polarization	Horizontal
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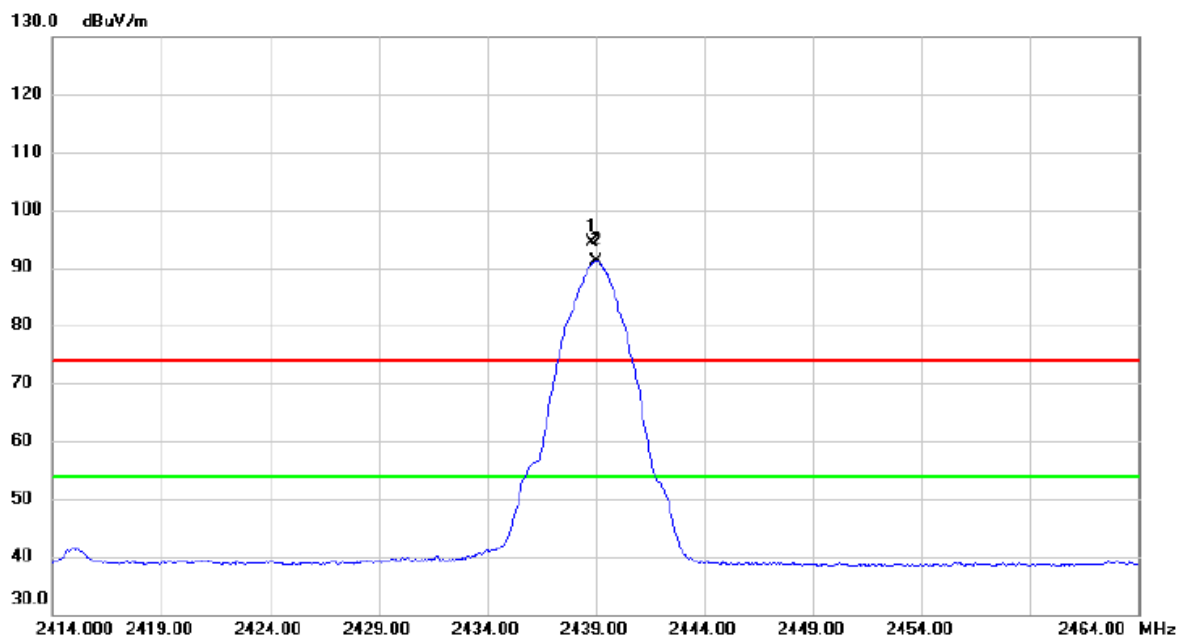
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4804.770	39.75	4.30	44.05	74.00	-29.95	peak	
2	*	4806.210	27.84	4.30	32.14	54.00	-21.86	AVG	

#### REMARKS:

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

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

Test Mode	TX 2439 MHz _CH13_ 3Mbps	Polarization	Vertical
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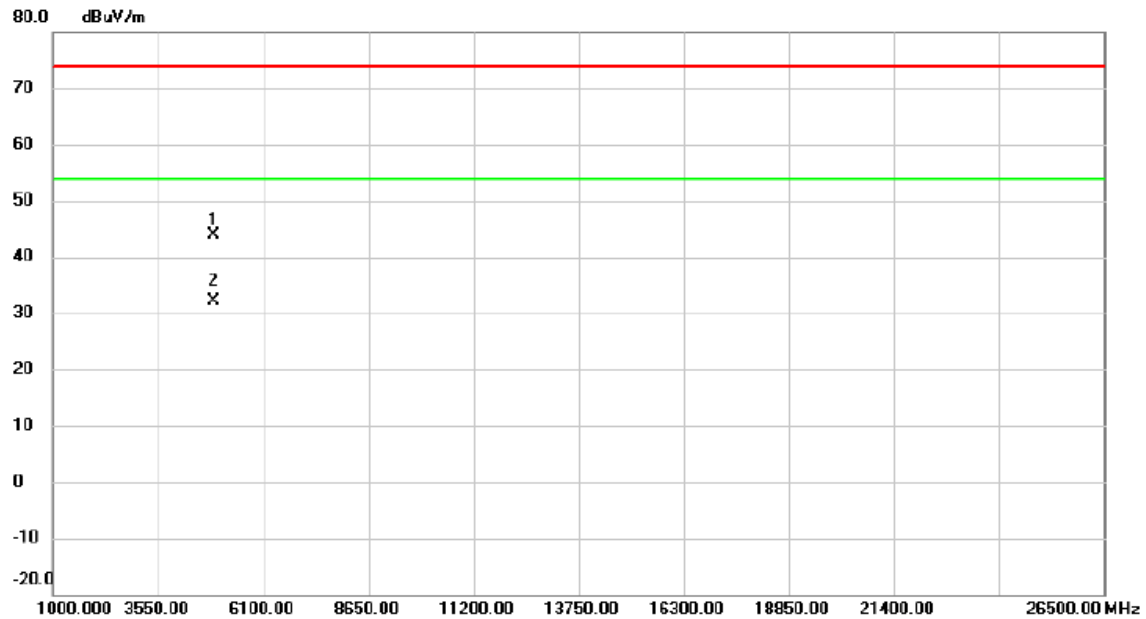
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2438.800	87.12	7.30	94.42	74.00	20.42	peak	No Limit
2	*	2439.050	83.84	7.30	91.14	54.00	37.14	AVG	No Limit

## REMARKS:

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

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

Test Mode	TX 2439 MHz _CH13_ 3Mbps	Polarization	Vertical
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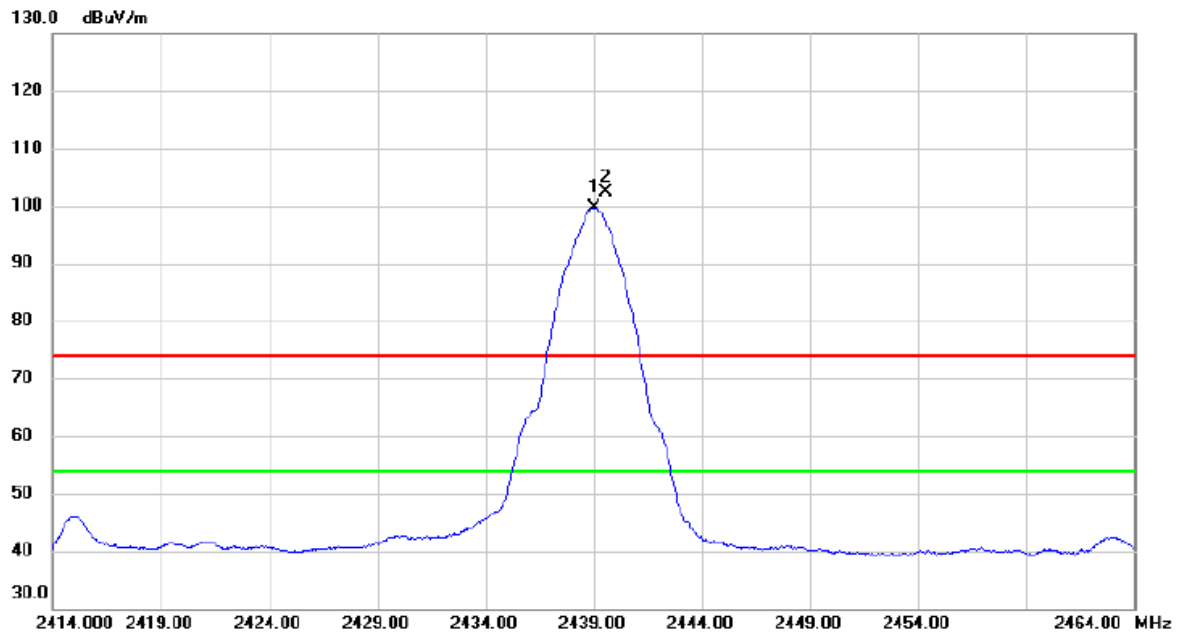


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4877.300	39.54	4.42	43.96	74.00	-30.04	peak	
2	*	4880.090	27.81	4.43	32.24	54.00	-21.76	AVG	

## REMARKS:

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

Test Mode	TX 2439 MHz _CH13_ 3Mbps	Polarization	Horizontal
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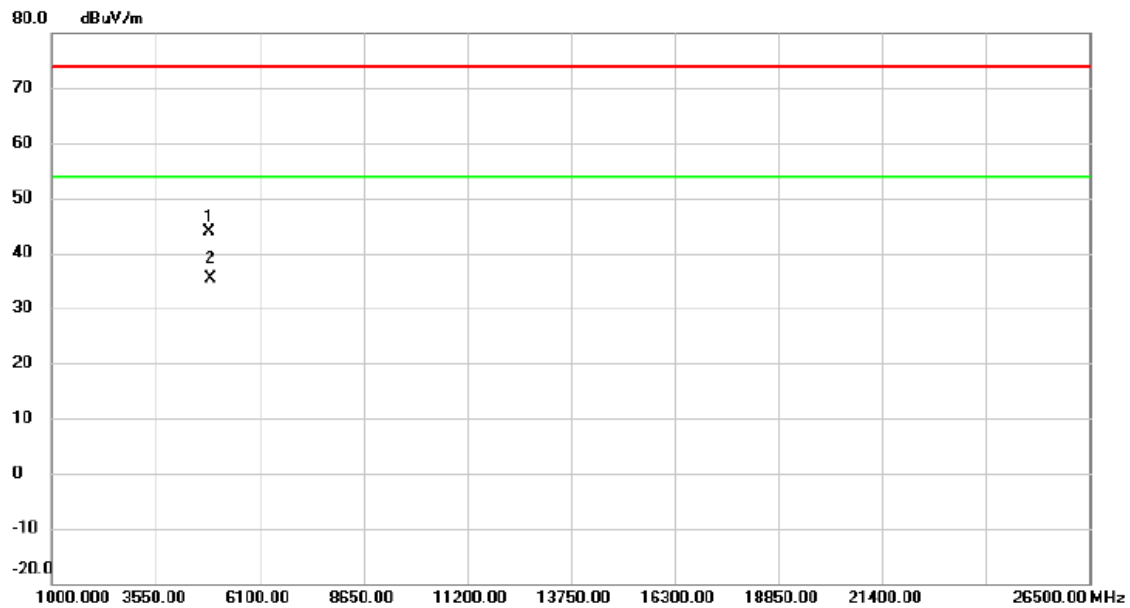
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2439.000	92.39	7.30	99.69	54.00	45.69	AVG	No Limit
2	X	2439.550	95.03	7.30	102.33	74.00	28.33	peak	No Limit

## REMARKS:

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



Test Mode	TX 2439 MHz _CH13_ 3Mbps	Polarization	Horizontal
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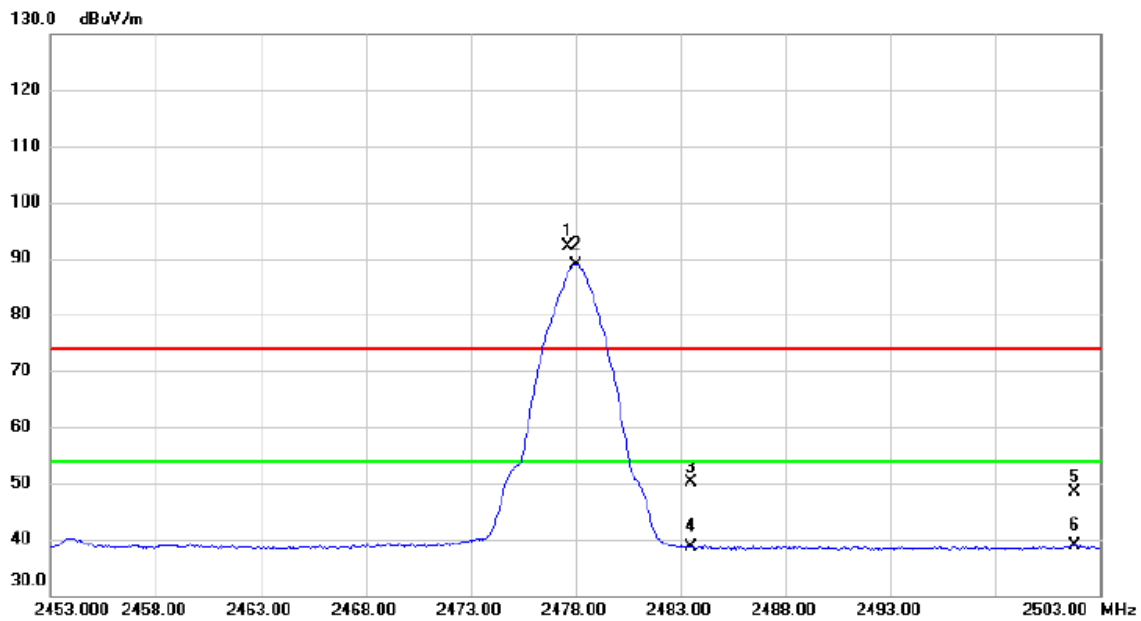


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4875.925	39.36	4.42	43.78	74.00	-30.22	peak	
2	*	4879.695	30.89	4.43	35.32	54.00	-18.68	AVG	

## REMARKS:

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

Test Mode	TX 2478 MHz _CH26_ 3Mbps	Polarization	Vertical
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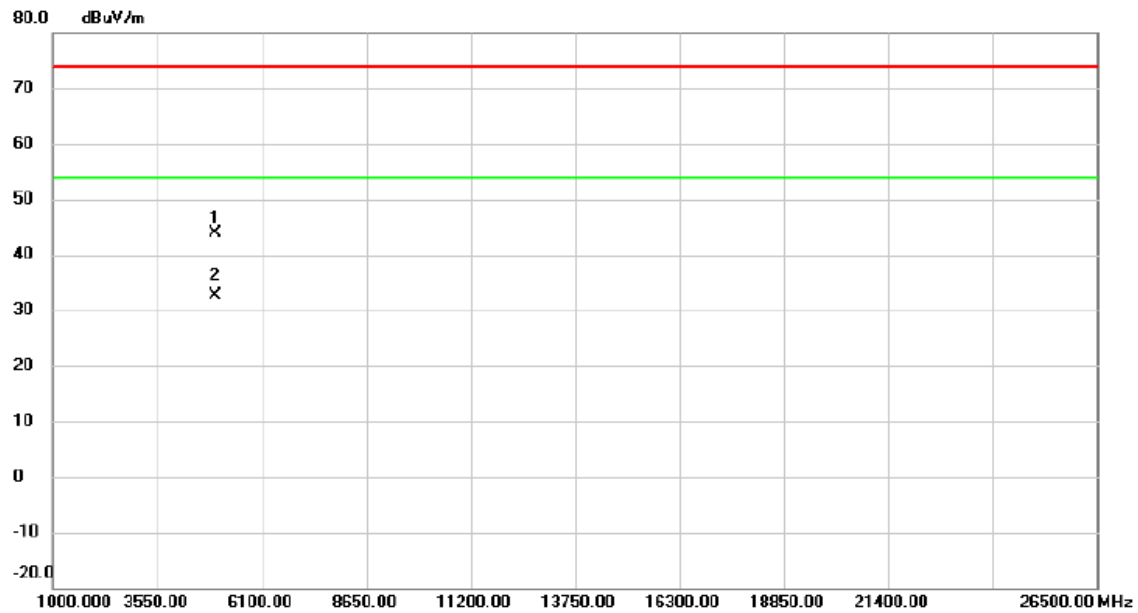
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2477.650	84.89	7.33	92.22	74.00	18.22	peak	No Limit
2	*	2478.000	81.60	7.34	88.94	54.00	34.94	AVG	No Limit
3		2483.500	42.67	7.34	50.01	74.00	-23.99	peak	
4		2483.500	31.32	7.34	38.66	54.00	-15.34	AVG	
5		2501.750	41.15	7.35	48.50	74.00	-25.50	peak	
6		2501.750	31.51	7.35	38.86	54.00	-15.14	AVG	

## REMARKS:

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

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

Test Mode	TX 2478 MHz _CH26_3Mbps	Polarization	Vertical
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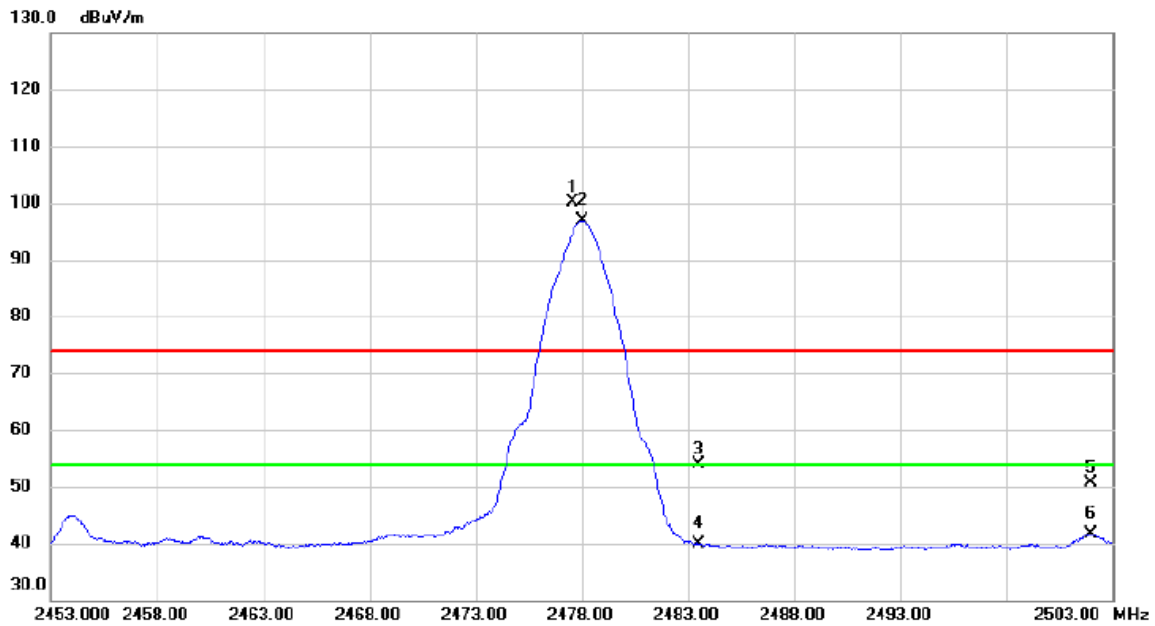
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4955.095	39.31	4.55	43.86	74.00	-30.14	peak	
2 *	4956.630	28.03	4.55	32.58	54.00	-21.42	AVG	

## REMARKS:

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

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

Test Mode	TX 2478 MHz _CH26_3Mbps	Polarization	Horizontal
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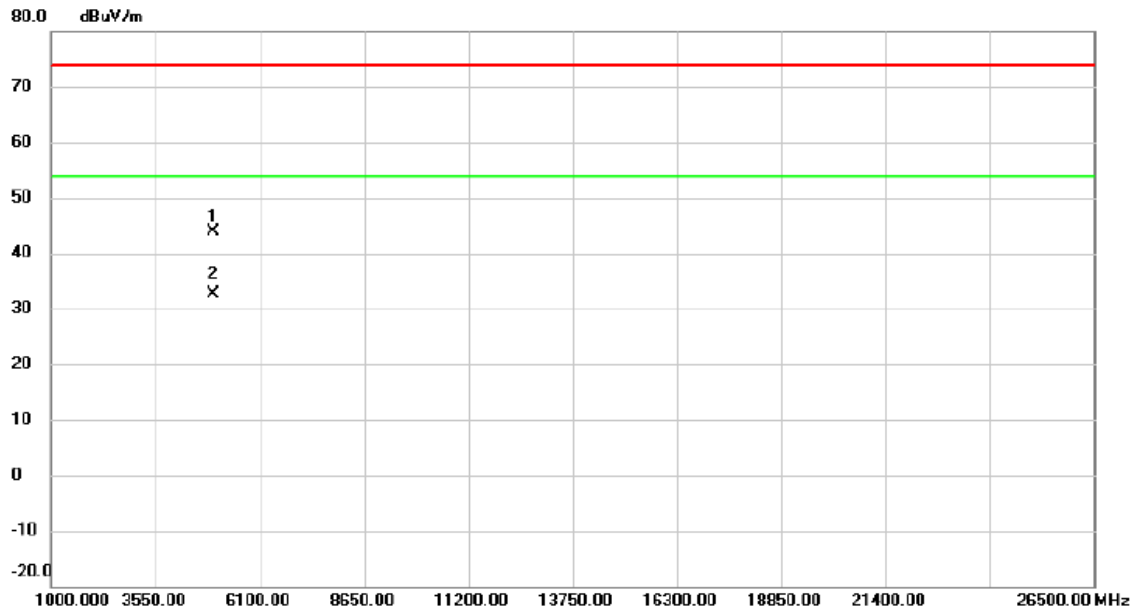
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2477.600	92.82	7.33	100.15	74.00	26.15	peak	No Limit
2	*	2478.050	89.56	7.34	96.90	54.00	42.90	AVG	No Limit
3		2483.500	46.46	7.34	53.80	74.00	-20.20	peak	
4		2483.500	32.58	7.34	39.92	54.00	-14.08	AVG	
5		2501.950	43.35	7.36	50.71	74.00	-23.29	peak	
6		2501.950	34.24	7.36	41.60	54.00	-12.40	AVG	

## REMARKS:

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

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

Test Mode	TX 2478 MHz _CH26_ 3Mbps	Polarization	Horizontal
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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		4955.685	39.35	4.55	43.90	74.00	-30.10	peak	
2	*	4957.435	28.03	4.55	32.58	54.00	-21.42	AVG	

## REMARKS:

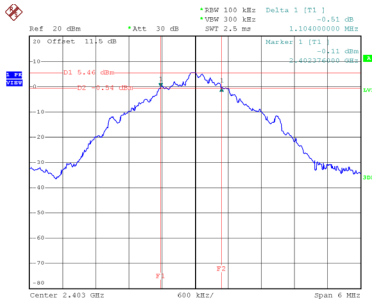
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX E - BANDWIDTH**

Test Mode	TX Mode _3Mbps
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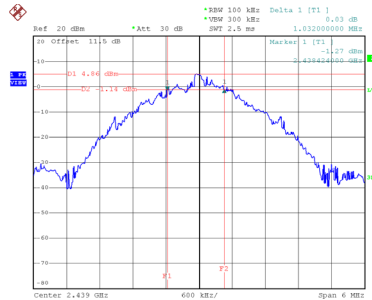
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Test Result
01	2403	1.104	2.680	0.5	Pass
13	2439	1.032	2.760	0.5	Pass
26	2478	1.260	2.728	0.5	Pass

CH01



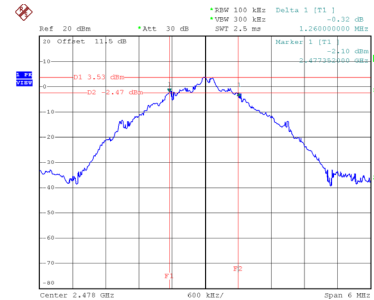
Date: 19.MAY.2022 11:46:55

CH13  
6 dB Bandwidth



Date: 19.MAY.2022 11:50:31

CH26

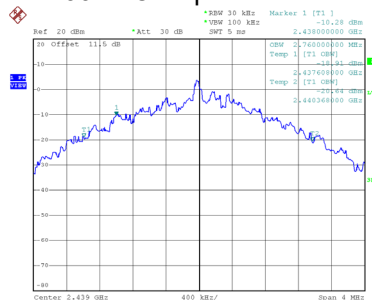


Date: 19.MAY.2022 11:40:22

99 % Occupied Bandwidth



Date: 19.MAY.2022 11:26:07



Date: 19.MAY.2022 11:31:36



Date: 19.MAY.2022 11:33:17

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

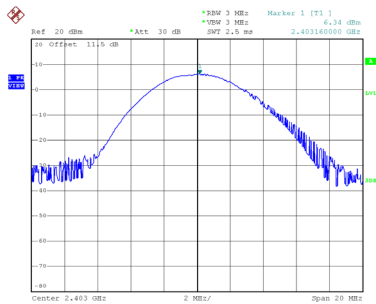


Test Mode	TX Mode_3Mbps
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Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2403	6.34	0.0043	30.00	1.0000	Pass
2439	5.51	0.0036	30.00	1.0000	Pass
2478	3.96	0.0025	30.00	1.0000	Pass

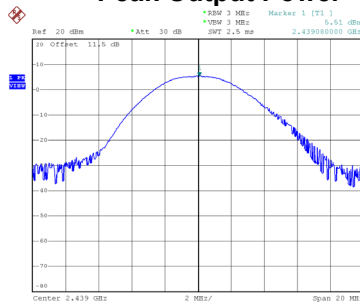
Frequency (MHz)	Average Output Power (dBm)	Average Output Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2403	5.50	0.0035	30.00	1.0000	Pass
2439	4.86	0.0031	30.00	1.0000	Pass
2478	3.54	0.0023	30.00	1.0000	Pass

CH01



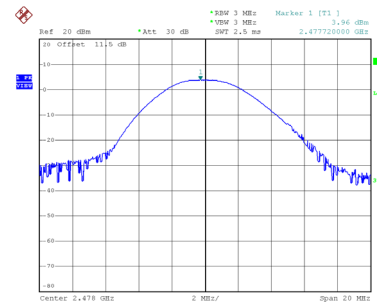
Date: 19.MAY.2022 11:11:06

CH13  
Peak Output Power



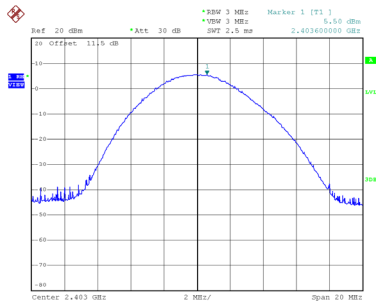
Date: 19.MAY.2022 11:11:37

CH26

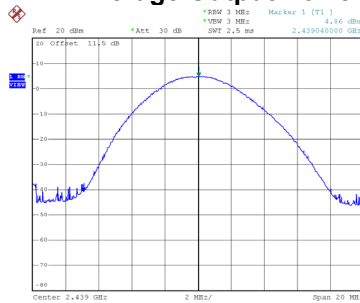


Date: 19.MAY.2022 11:11:57

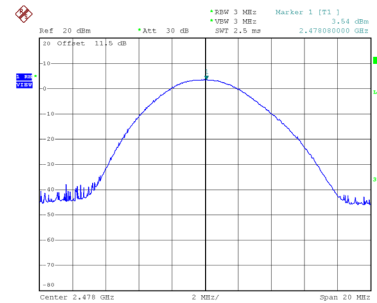
Average Output Power



Date: 19.MAY.2022 11:14:03



Date: 19.MAY.2022 11:14:44

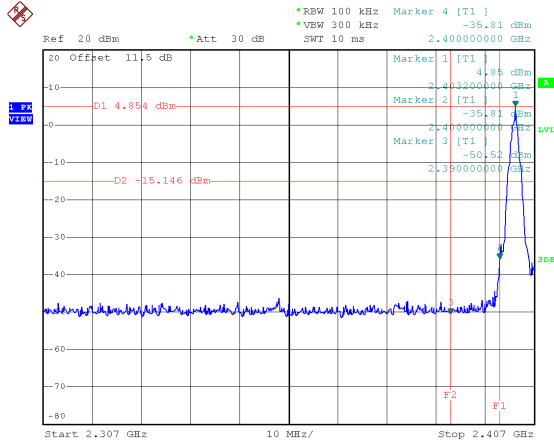


Date: 19.MAY.2022 11:15:00

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

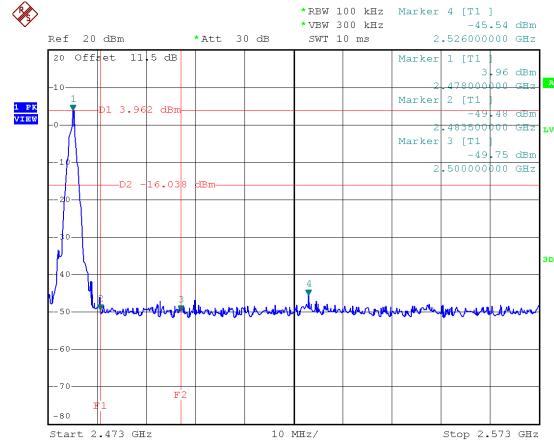
Test Mode TX Mode\_3Mbps

## Bandedge CH01 (Lower)



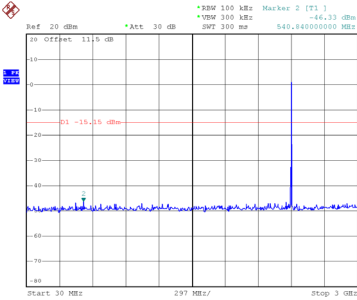
Date: 19.MAY.2022 11:30:10

## Bandedge CH26 (Upper)

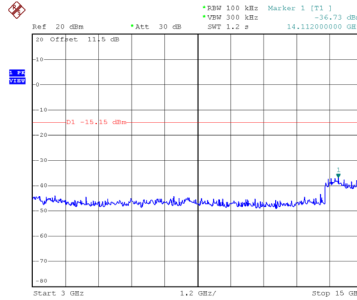


Date: 19.MAY.2022 11:33:26

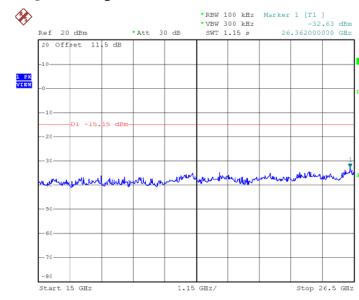
## CH01 – 10th Harmonic of the fundamental frequency



Date: 19.MAY.2022 11:30:24

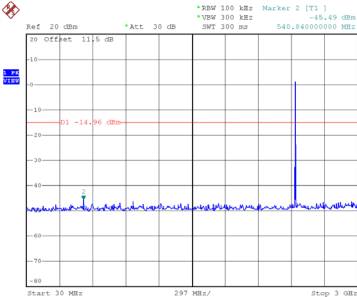


Date: 19.MAY.2022 11:30:32

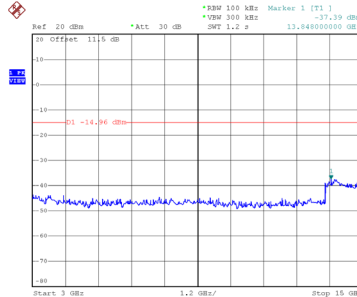


Date: 19.MAY.2022 11:30:41

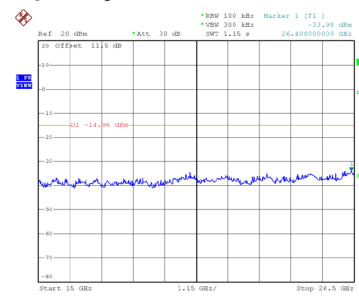
## CH13 – 10th Harmonic of the fundamental frequency



Date: 19.MAY.2022 11:32:18

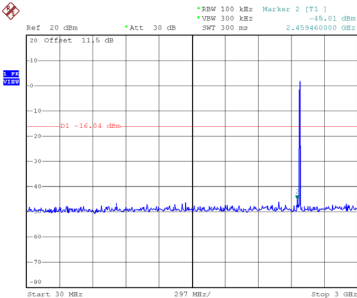


Date: 19.MAY.2022 11:32:26

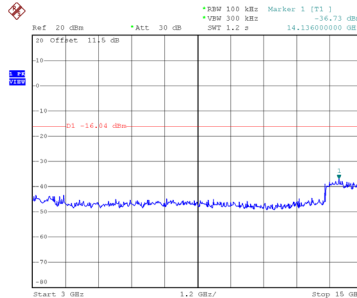


Date: 19.MAY.2022 11:32:35

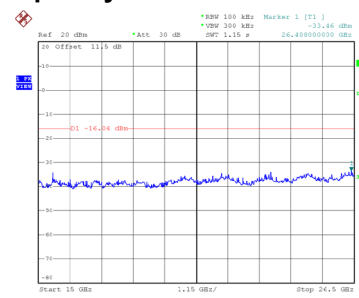
## CH26 – 10th Harmonic of the fundamental frequency



Date: 19.MAY.2022 11:33:40



Date: 19.MAY.2022 11:33:48

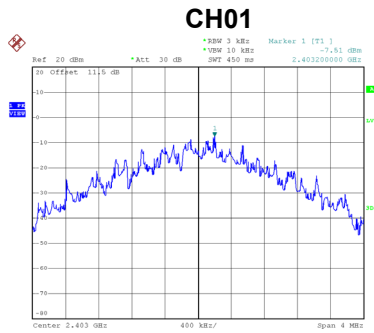


Date: 19.MAY.2022 11:33:57

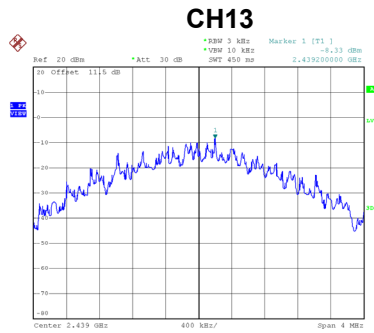
## **APPENDIX H - POWER SPECTRAL DENSITY**

Test Mode	TX Mode _3Mbps
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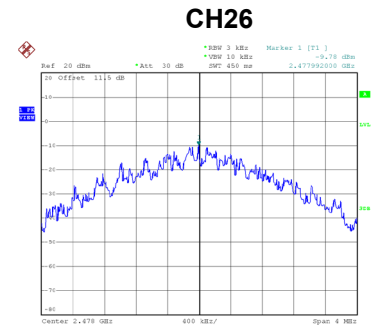
Channel	Frequency (MHz)	Power Spectral Density (dBm/3 kHz)	Max. Limit (dBm/3 kHz)	Test Result
01	2403	-7.51	8.00	Pass
13	2439	-8.33	8.00	Pass
26	2478	-9.78	8.00	Pass



Date: 19.MAY.2022 11:30:58



Date: 19.MAY.2022 11:32:52



Date: 19.MAY.2022 11:34:14

End of Test Report