



# FCC Radio Test Report

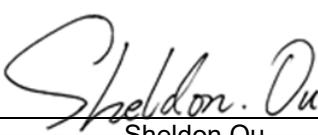
## FCC ID: 2BFMH-KN-1012

This report concerns: Original Grant

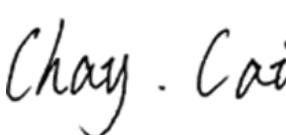
**Project No.** : 2406E004  
**Equipment** : Keenetic Hero  
**Brand Name** : KEENETIC  
**Test Model** : KN-1012  
**Series Model** : N/A  
**Applicant** : Keenetic Limited.  
**Address** : Office 2307A,27/F., 148 Electric Road, North Point, Hong Kong  
**Manufacturer** : Keenetic Limited.  
**Address** : Office 2307A,27/F., 148 Electric Road, North Point, Hong Kong  
**Date of Receipt** : Jun. 25, 2024  
**Date of Test** : Jun. 26, 2024 ~ Sep. 18, 2024  
**Issued Date** : Nov. 18, 2024  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG2024070820 for Radiated Emissions-1GHz to 18GHz, DG2024062544 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 manufacturer's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**. The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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

**BTL**'s laboratory quality assurance procedures are in compliance with the ISO/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-1-2406E004	R00	Original Report.	Nov. 11, 2024	Invalid
BTL-FCCP-1-2406E004	R01	Updated the applicant and manufacturer information.	Nov. 18, 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

KDB 662911 D01 Multiple Transmitter Output v02r01

## 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 Emissions	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 in this test report.

(2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of

### For Radiated Emissions- 1GHz to 18GHz:

Room 102 & Room 702, Building 3, No.9, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.

### For others:

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-CB18 (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	20°C	42%	AC 120V/60Hz	Hayden Chen	Jul. 04, 2024
Radiated Emissions-9kHz to 30 MHz	23°C	46%	AC 120V/60Hz	Hayden Chen	Aug. 09, 2024
Radiated Emissions-30MHz to 1000MHz	24°C	55%	AC 120V/60Hz	Chen Mo	Aug. 08, 2024
Radiated Emissions-Above 1000MHz	23°C	53%	AC 120V/60Hz	Allen Tong	Jul. 23, 2024
	24°C	55%	AC 120V/60Hz	Chen Mo	Aug. 08, 2024
Bandwidth	23°C	58%	AC 120V/60Hz	Parker Yang	Jul. 22, 2024
Maximum Output Power	23°C	48%	AC 120V/60Hz	Steve Zhou Oliver Wang	Jul. 18, 2024- Sep. 02, 2024
Conducted Spurious Emissions	23°C	58%	AC 120V/60Hz	Parker Yang	Jul. 22, 2024
Power Spectral Density	23°C	58%	AC 120V/60Hz	Parker Yang	Jul. 22, 2024

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Keenetic Hero
Brand Name	KEENETIC
Test Model	KN-1012
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC Voltage supplied from AC adapter. Model: DSA-30PFL-12 FCA 120250
Power Rating	I/P: 100-240V~ 50/60Hz 0.8A      O/P: +12.0V <del>====</del> 2.5A
Operation Frequency	2412 MHz ~ 2462 MHz
Modulation Type	IEEE 802.11b: DSSS IEEE 802.11g: OFDM IEEE 802.11n: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ax: up to 573.6 Mbps
Maximum Output Power	IEEE 802.11ax(HE20): 29.35 dBm (0.8610 W)

Note:

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

## 2. Channel List:

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11ax(HE20) CH03 - CH09 for IEEE 802.11n(HT40), IEEE 802.11ax(HE40)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

## 3. Antenna Specification:

Antenna Information							
Antenna-1			Antenna-2			Beamforming Gain	
Antenna Type	Frequency (MHz)	Total Gain (dBi)	Antenna Type	Frequency (MHz)	Total Gain (dBi)	Frequency (MHz)	Peak Gain (dBi)
External PCB Antenna	2400~2483.5	4.23	External PCB Antenna	2400~2483.5	2.82	2400~2483.5	0.99

## Note:

The EUT supports CDD, and all antenna gains are not equal, so Directional gain=10log[(10<sup>G1/20</sup>+10<sup>G2/20</sup>+...10<sup>GN/20</sup>)<sup>2</sup>/N]dB<sub>i</sub>,

that is Directional gain=10log[(10<sup>4.23/20</sup>+10<sup>2.82/20</sup>)<sup>2</sup>/2]dB<sub>i</sub> =6.56 dB<sub>i</sub>.

So, the output power limit is 30-(6.56-6)=29.44, the power spectral density limit is 8-(6.56-6)=7.44.

## 4. The worst case for 2TX as follow:

## For Non Beamforming:

Operating Mode	TX Mode	2TX
	IEEE 802.11b	V (Ant. 1+Ant. 2)
	IEEE 802.11g	V (Ant. 1+Ant. 2)
	IEEE 802.11n(HT20)	V (Ant. 1+Ant. 2)
	IEEE 802.11n(HT40)	V (Ant. 1+Ant. 2)
	IEEE 802.11ax(HE20)	V (Ant. 1+Ant. 2)
	IEEE 802.11ax(HE40)	V (Ant. 1+Ant. 2)

## For Beamforming:

Operating Mode	TX Mode	2TX
	IEEE 802.11n(HT20)	V (Ant. 1+Ant. 2)
	IEEE 802.11n(HT40)	V (Ant. 1+Ant. 2)
	IEEE 802.11ax(HE20)	V (Ant. 1+Ant. 2)
	IEEE 802.11ax(HE40)	V (Ant. 1+Ant. 2)

### 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 B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX AX(HE20) Mode Channel 01/06/11
Mode 4	TX AX(HE40) Mode Channel 03/06/09
Mode 5	TX AX(HE20) Mode Channel 06

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 5	TX AX(HE20) Mode Channel 06

#### Radiated emissions test - Below 1GHz

Final Test Mode	Description
Mode 5	TX AX(HE20) Mode Channel 06

#### Radiated emissions test- Above 1GHz

Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX AX(HE20) Mode Channel 01/06/11
Mode 4	TX AX(HE40) Mode Channel 03/06/09

#### Conducted test

Final Test Mode	Description
Mode 1	TX B Mode Channel 01/06/11
Mode 2	TX G Mode Channel 01/06/11
Mode 3	TX AX(HE20) Mode Channel 01/06/11
Mode 4	TX AX(HE40) Mode Channel 03/06/09

**NOTE:**

- (1) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (2) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AX(HE20) Mode Channel 06 is found to be the worst case and recorded.
- (3) 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.
- (4) For radiated emission Harmonic 18-26.5GHz test, only tested the worst case and recorded.
- (5) For radiated emission above 1GHz test, both Vertical and Horizontal are evaluated, only the worst case is recorded.
- (6) HE20/HE40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same 802.11ax HE20 and HE40.
- (7) When testing AX mode, RU Configuration is full RU, so only the full RU is evaluated and measured inside report.
- (8) For power limitation beamfoming operation, the software automatically backs power down based on CDD power. Therefore, only the CDD mode was evaluated in this report.

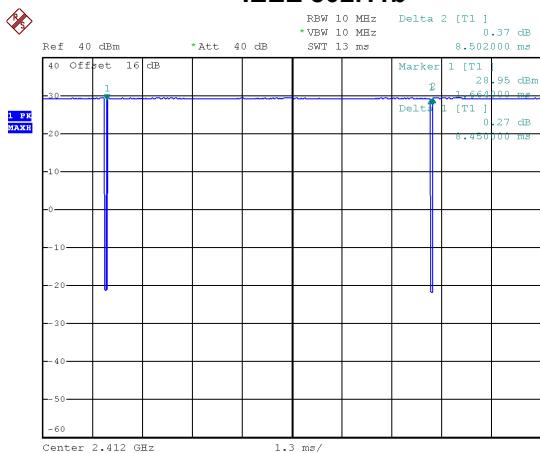
**3.3 PARAMETERS OF TEST SOFTWARE**

Test Software Version	QATool_Ulv2.78_DLLv6.83		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	24	25	24.5
IEEE 802.11g	21.5	26	19
IEEE 802.11ax(HE20)	20.5	25	20
Frequency (MHz)	2422	2437	2452
IEEE 802.11ax(HE40)	18.5	24	19.5

### 3.4 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
If duty cycle is  $< 98\%$ , duty factor shall be considered.  
The output power = measured power + duty factor.

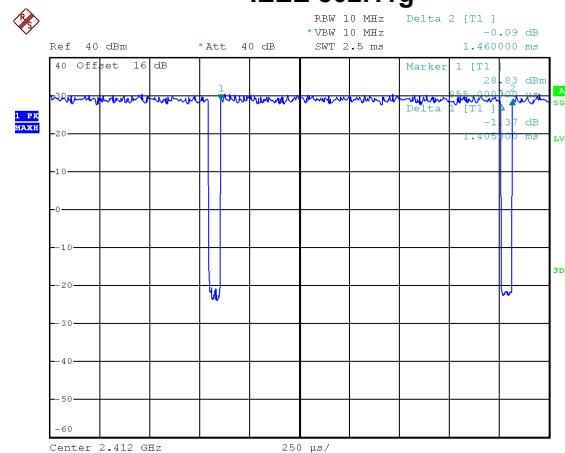
**IEEE 802.11b**



Date: 22.JUL.2024 14:48:50

Duty cycle =  $8.450 \text{ ms} / 8.502 \text{ ms} = 99.39\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.00$

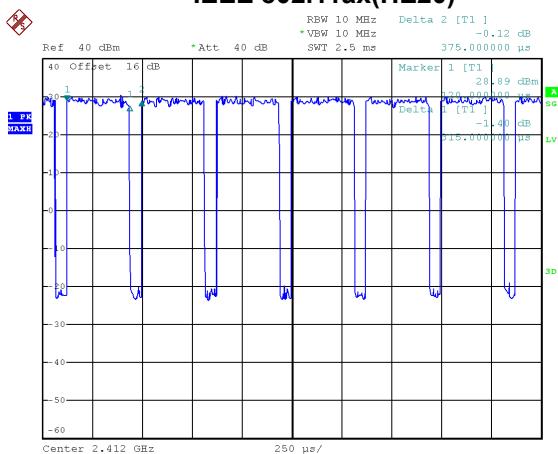
**IEEE 802.11g**



Date: 22.JUL.2024 14:49:54

Duty cycle =  $1.405 \text{ ms} / 1.460 \text{ ms} = 96.23\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.17$

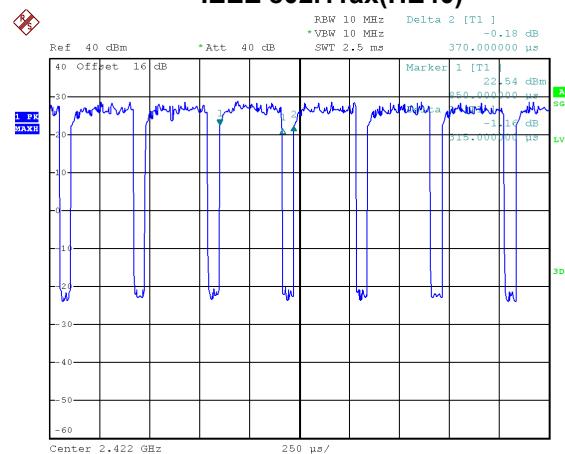
**IEEE 802.11ax(HE20)**



Date: 22.JUL.2024 14:53:50

Duty cycle =  $0.315 \text{ ms} / 0.375 \text{ ms} = 84.00\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.76$

**IEEE 802.11ax(HE40)**



Date: 22.JUL.2024 14:55:50

Duty cycle =  $0.315 \text{ ms} / 0.370 \text{ ms} = 85.14\%$   
Duty Factor =  $10 \log(1/\text{Duty cycle}) = 0.70$

**NOTE:**

For IEEE 802.11b:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz.

For IEEE 802.11g:

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 712 Hz.

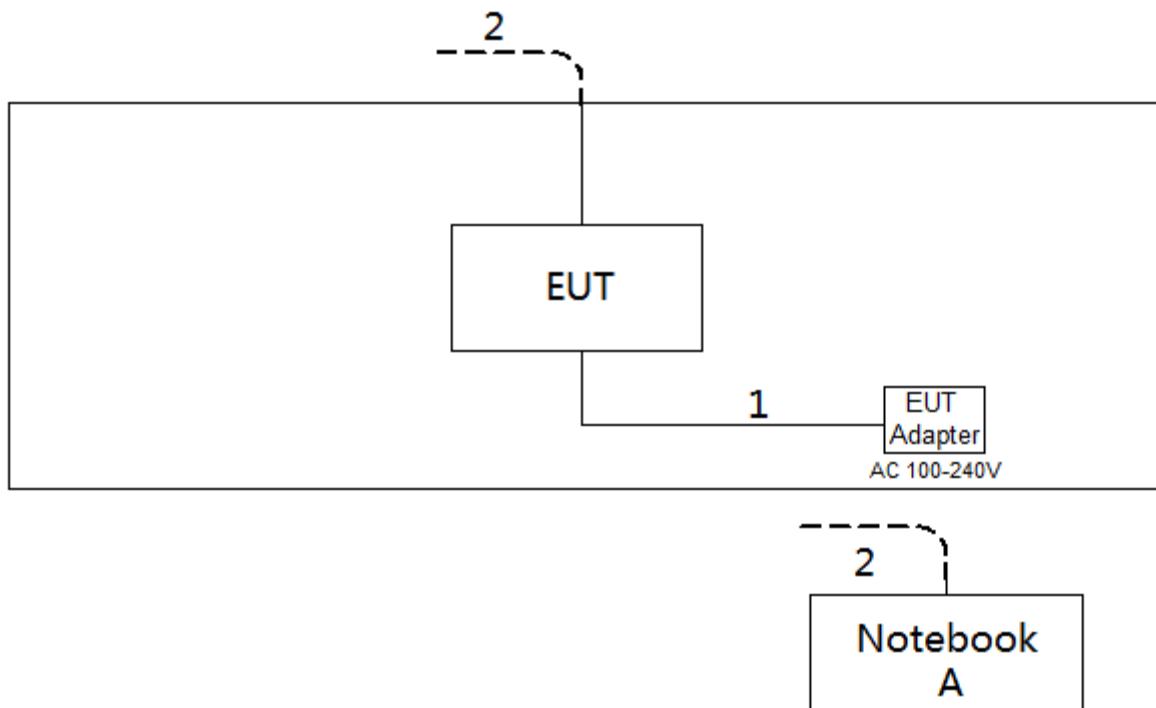
For IEEE 802.11ax(HE20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3175 Hz.

For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3175 Hz.

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



### 3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Honor	Nbl-WAQ9HNRP	N/A

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

### 3.7 CUSTOMER INFORMATION DESCRIPTION

- 1) The antenna gain and beamforming gain are provided by the manufacturer.
- 2) Except for AC power line conducted emissions test and Radiated spurious emissions, the results of all test items include cable losses. All 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.

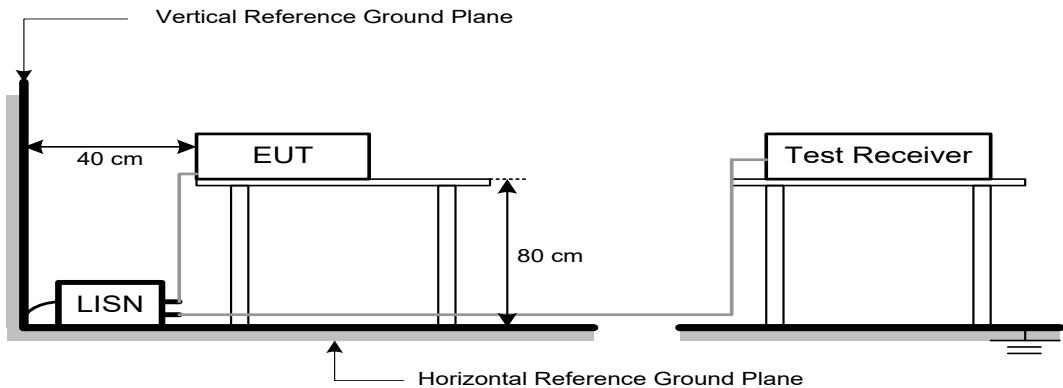
The following table is the setting of the receiver:

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 OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

#### 4.6 TEST RESULTS

Please refer to the APPENDIX A.

## 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 (dB $\mu$ V/m)		Harmonic at 1m (dB $\mu$ V/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 (dB $\mu$ V/m)=20log Emission level (uV/m).
- (4)

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

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

- 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

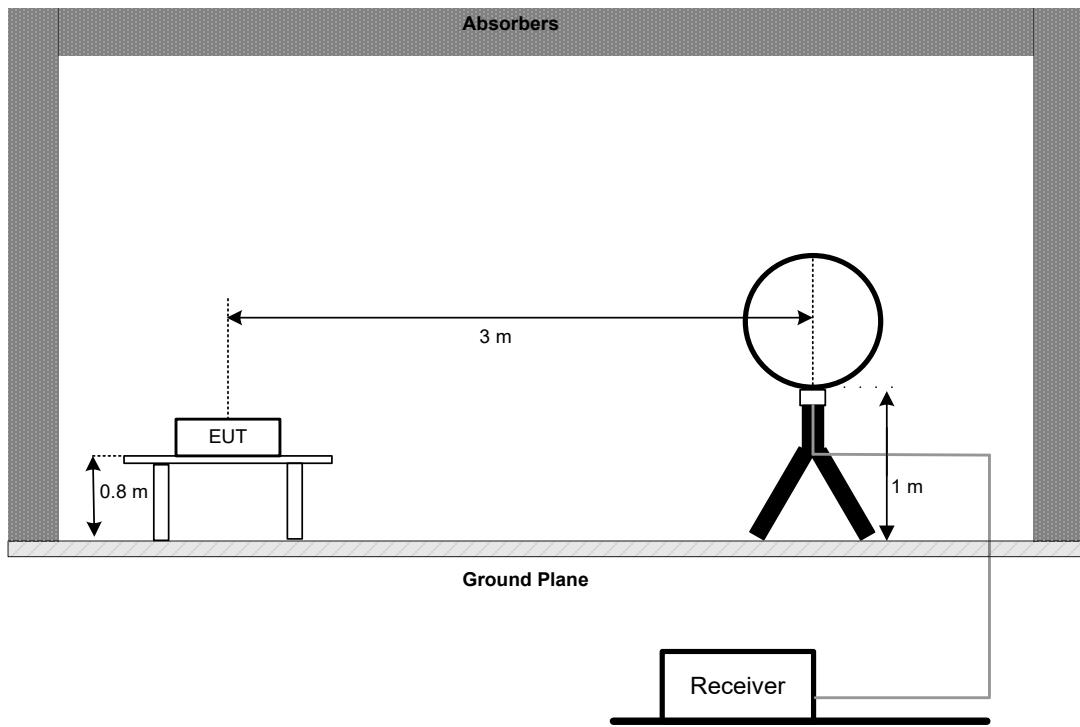
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

### 5.3 DEVIATION FROM TEST STANDARD

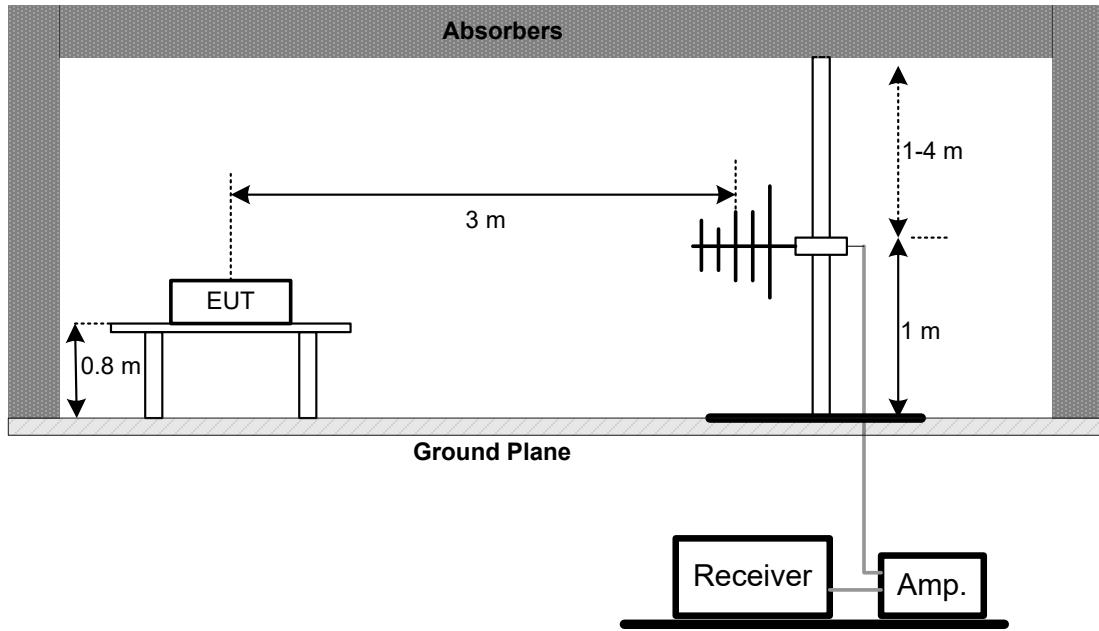
No deviation.

### 5.4 TEST SETUP

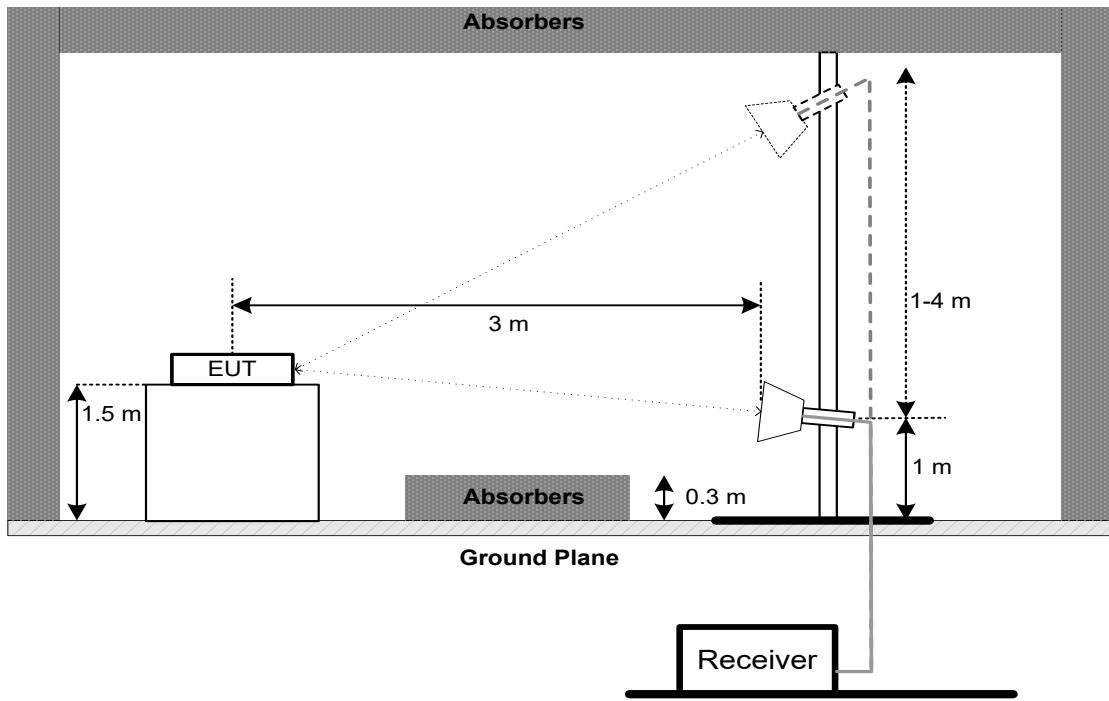
9 kHz to 30 MHz



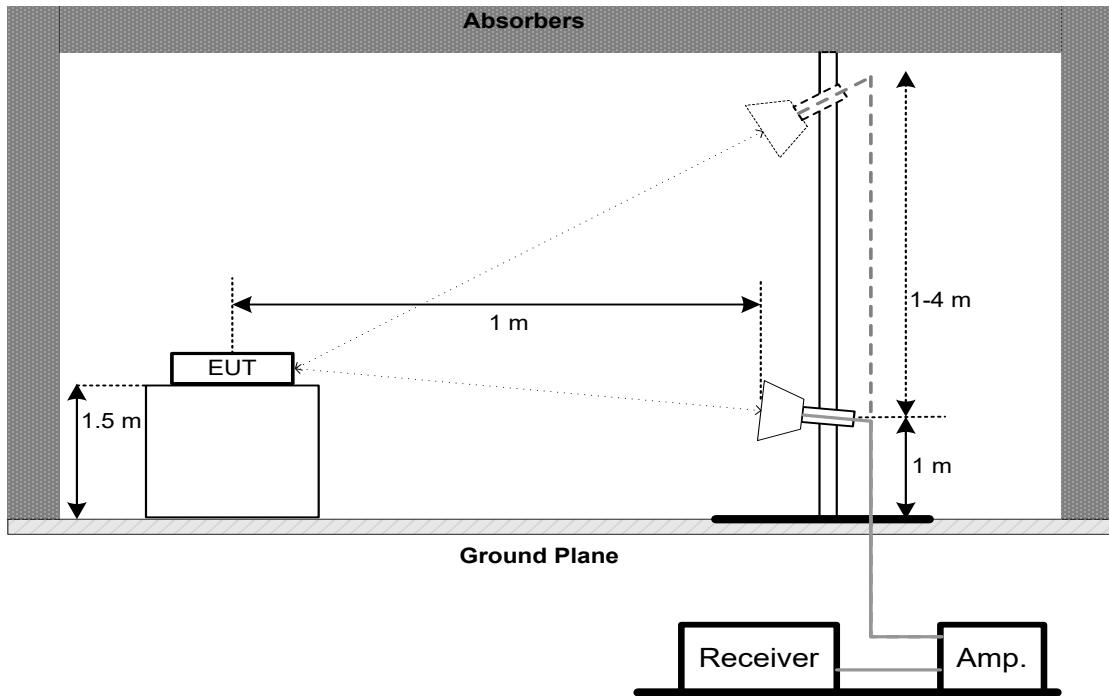
30 MHz to 1 GHz



**Above 1 GHz**  
**Band edge & Harmonic(1 GHz to 18 GHz)**



**Harmonic(18 GHz to 26.5 GHz)**



**5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**5.6 TEST RESULTS - 9 KHZ TO 30 MHZ**

Please refer to the APPENDIX B.

Remark:

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

**5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ**

Please refer to the APPENDIX C.

**5.8 TEST RESULTS - 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	Minimum 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

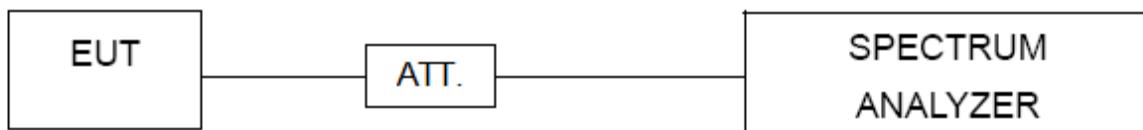
For 99% Emission Bandwidth:

Spectrum Parameters	Setting
Span Frequency	Between 1.5 times and 5.0 times the OBW
RBW	300 kHz For 20MHz 1 MHz For 40MHz
VBW	1 MHz For 20MHz 3 MHz For 40MHz
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

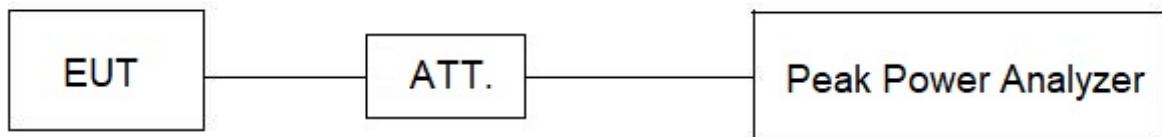
### 7.2 TEST PROCEDURE

- a. The EUT was directly connected to the peak power analyzer and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

### 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 EMISSIONS

### 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

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

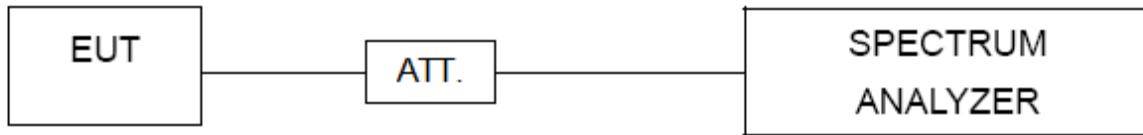
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- The following table is the setting of the spectrum analyzer:

Spectrum Parameters	Setting
Span Frequency	25 MHz (20 MHz) / 60 MHz (40 MHz)
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-9M-001	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 22, 2024
3	Cable	N/A	RW2350-3.8A-NMB M-1.5M	N/A	Jun. 09, 2025
4	Cable	N/A	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-3m	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 - 1 GHz to 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Nov. 17, 2024
4	Cable	RegalWay	RWLP50-4.0A-SMS M-1.3M	N/A	Jan. 09, 2025
5	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MRA-3M	N/A	Jan. 09, 2025
6	Cable	RegalWay	RWLP50-4.0A-SMS M-9M	N/A	Jan. 09, 2025
7	966 Chamber room	ETS	RFD-100(SVSWR)	Q2179	Jan. 09, 2025
8	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 08, 2024
9	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 31, 2025
10	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
11	Filter	STI	STI15-9912	N/A	Nov. 17, 2024

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Signal Analyzer	Keysight	N9010A	MY56480488	Dec. 22, 2024
2	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 17, 2025
3	Cable	RegalWay	RWLP50-2.6A-2.92M 2.92M-1.1M	N/A	Jul. 25, 2025
4	Cable	Tonscend	HF160-KMKG-3M	N/A	Jul. 25, 2025
5	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	Jun. 16, 2025
6	Positioning Controller	MF	MF-7802	N/A	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	966 Chamber room	CM	9*6*6	N/A	May 16, 2025

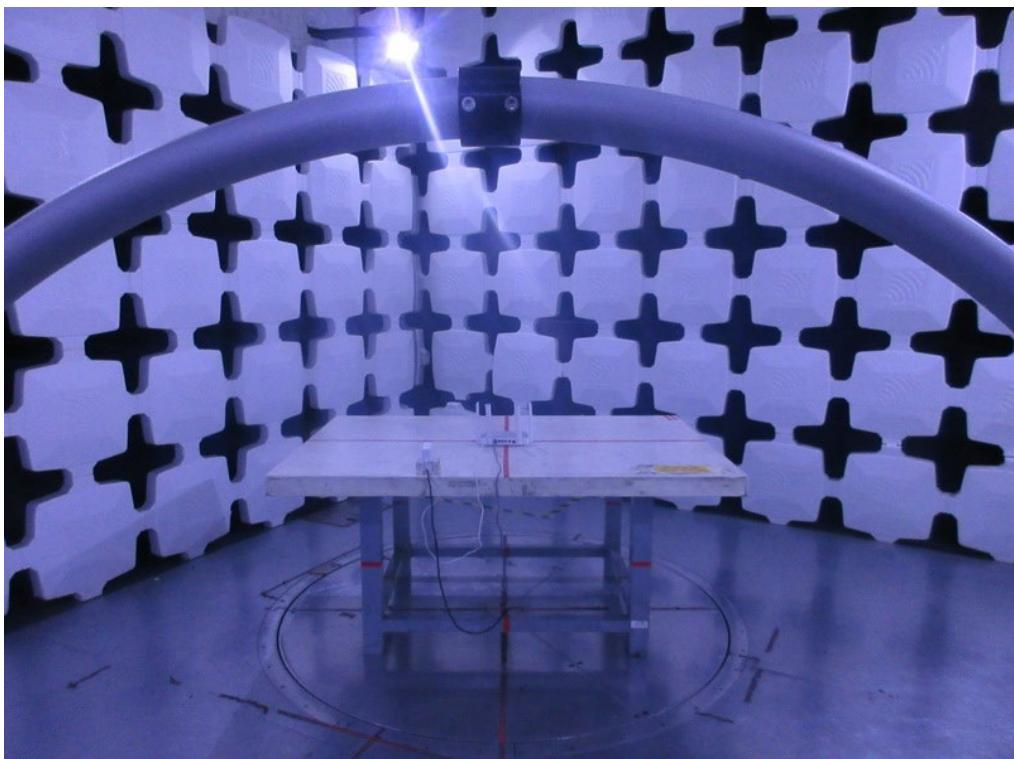
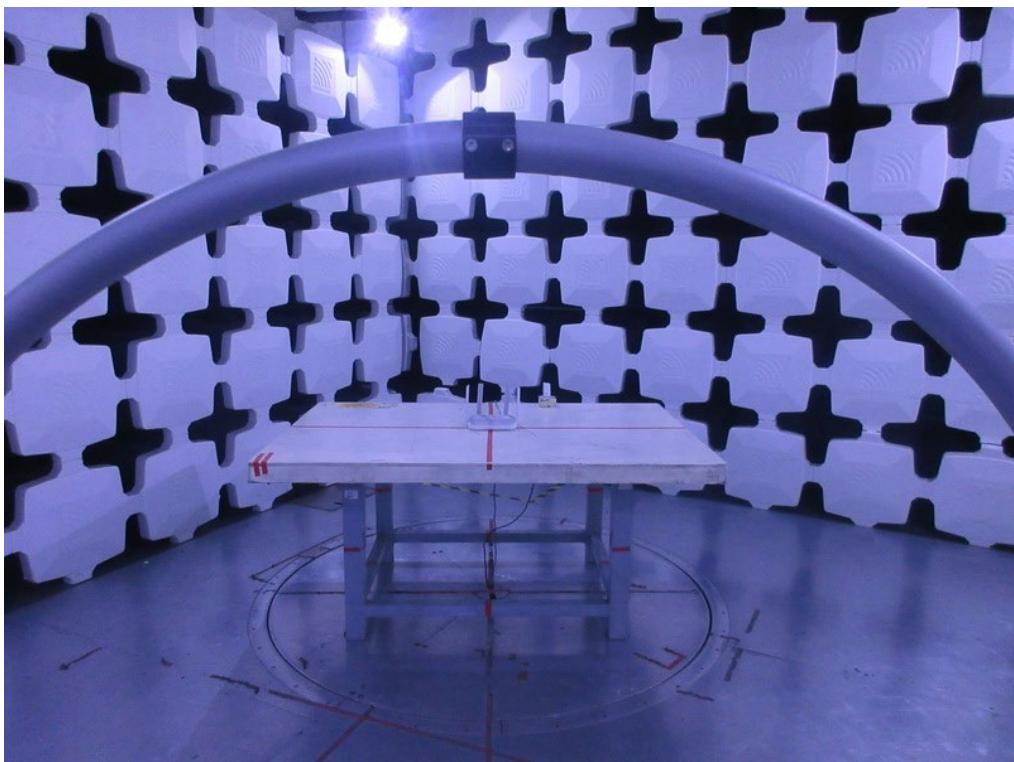
Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	May 31, 2025
2	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A

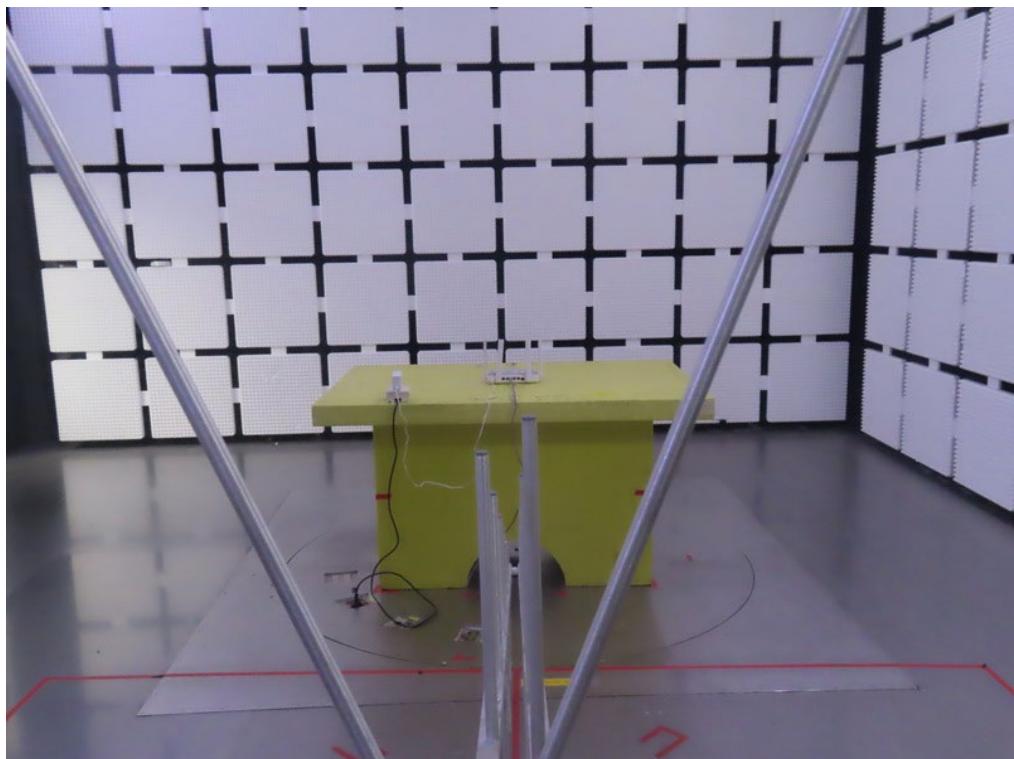
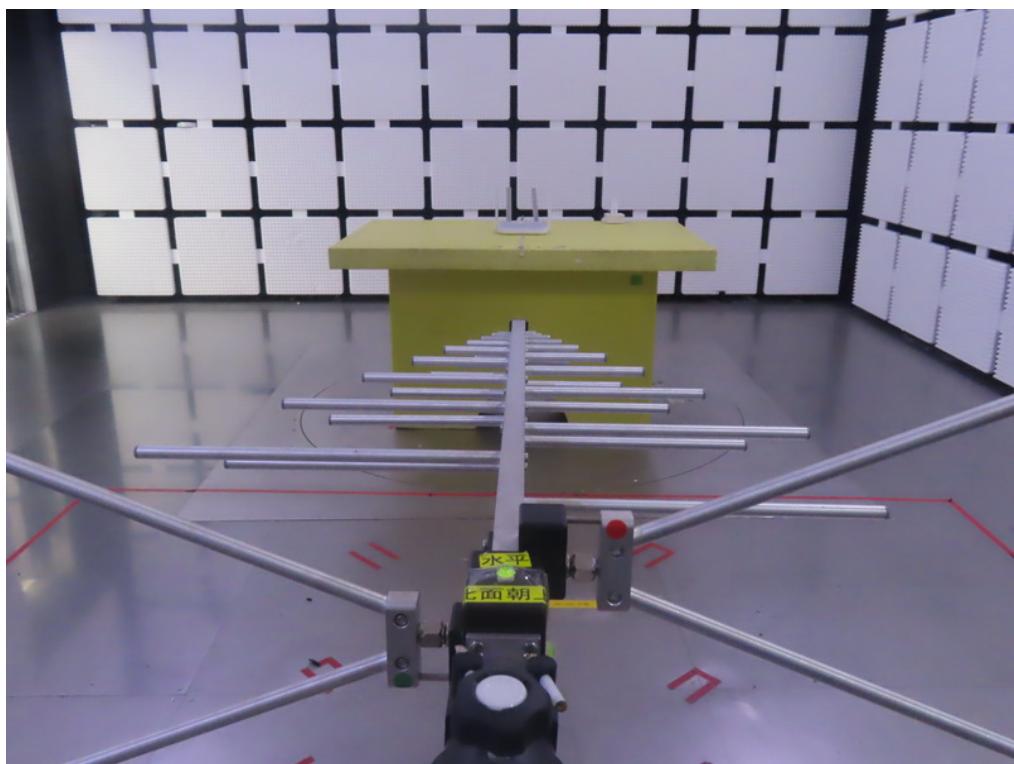
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	N/A	N/A

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

All calibration period of equipment list is one year.

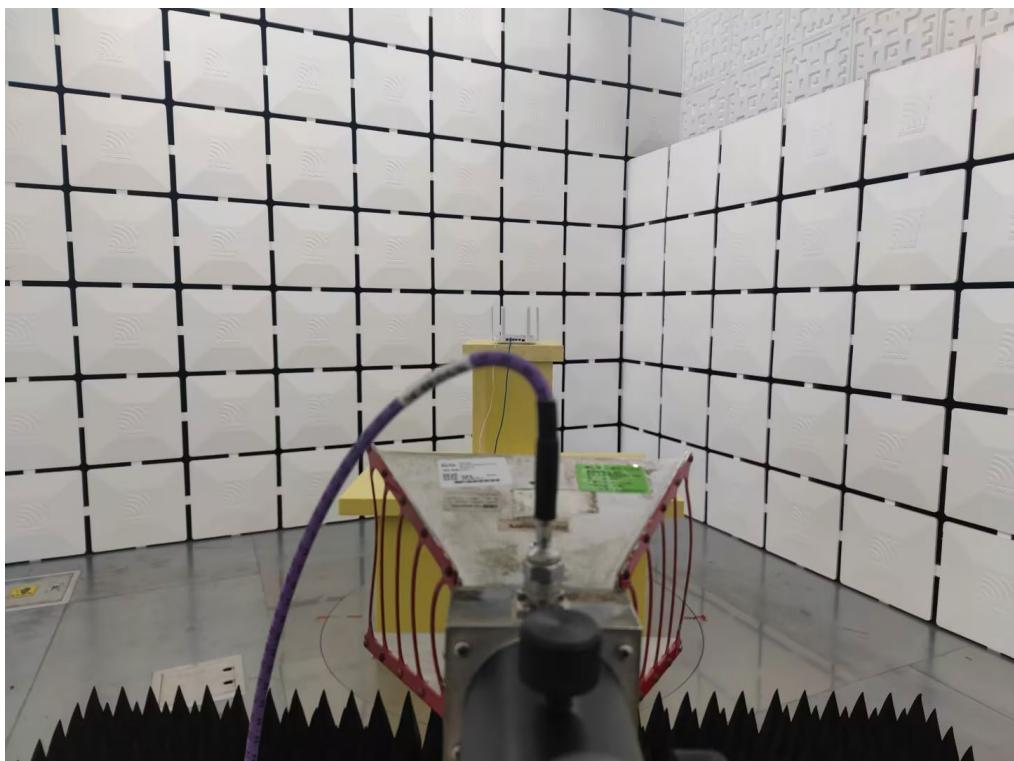
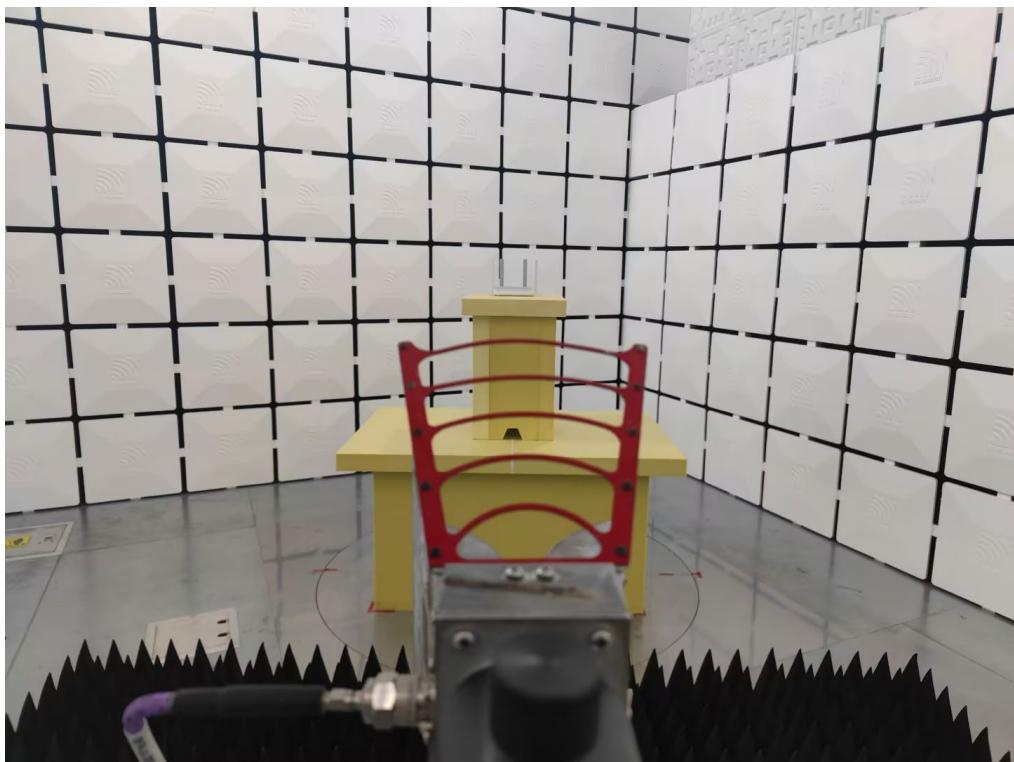
**11. EUT TEST PHOTO****AC Power Line Conducted Emissions Test Photos**

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

**Radiated Emissions Test Photos****30 MHz to 1 GHz**

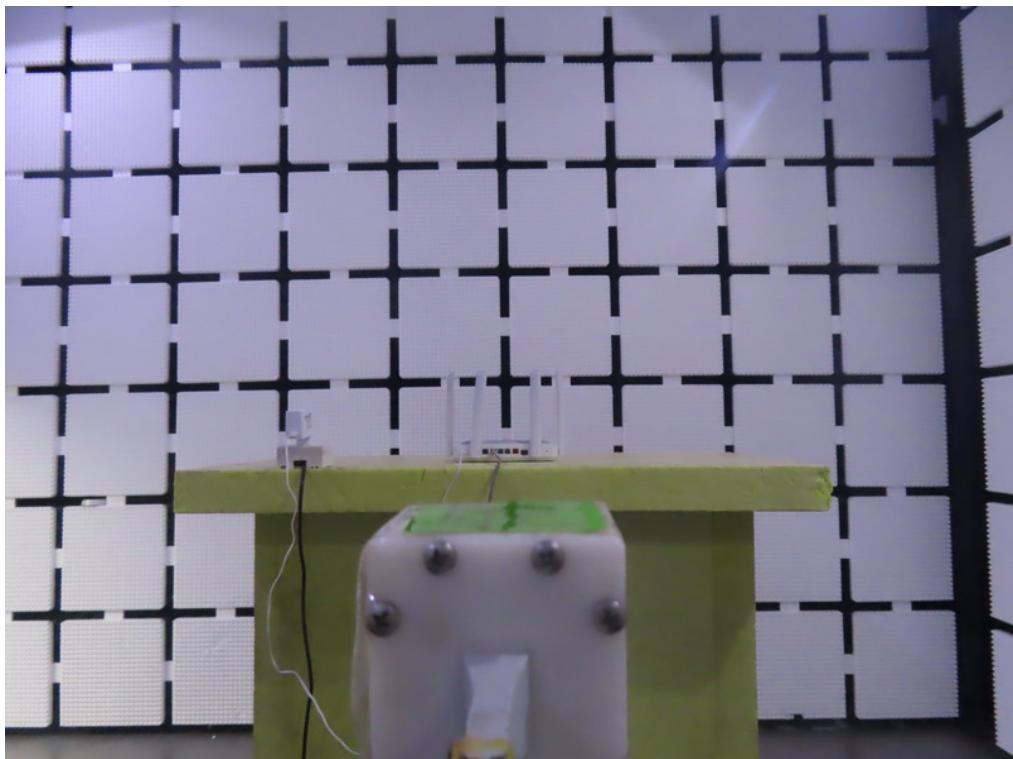
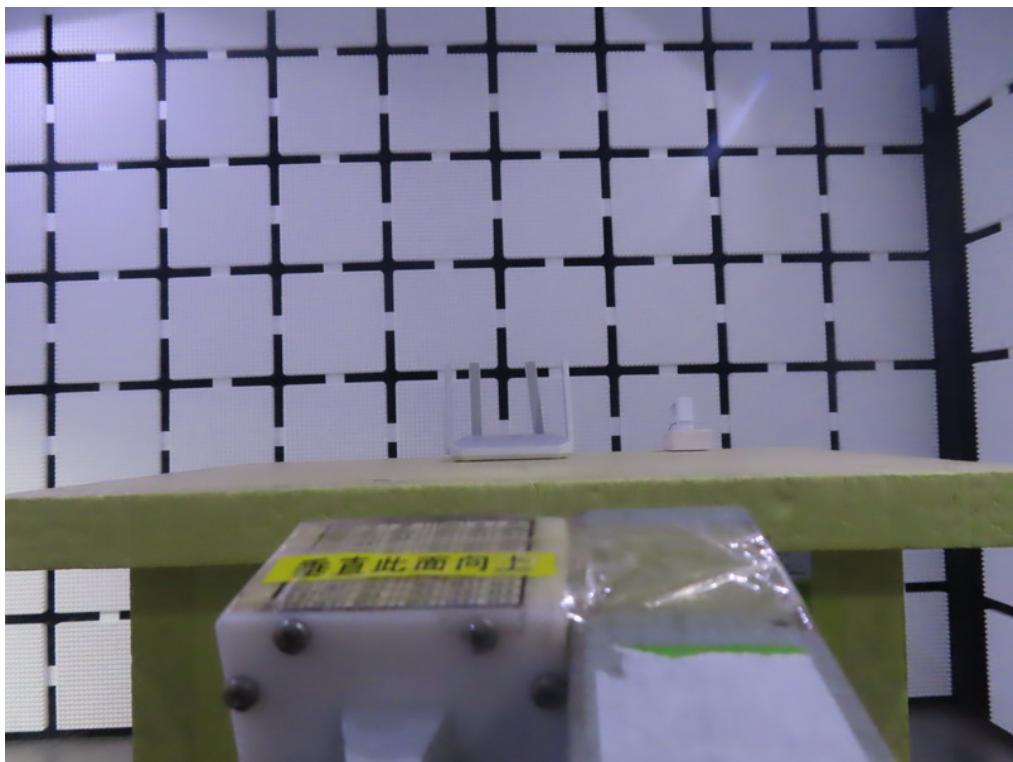
**Radiated Emissions Test Photos**

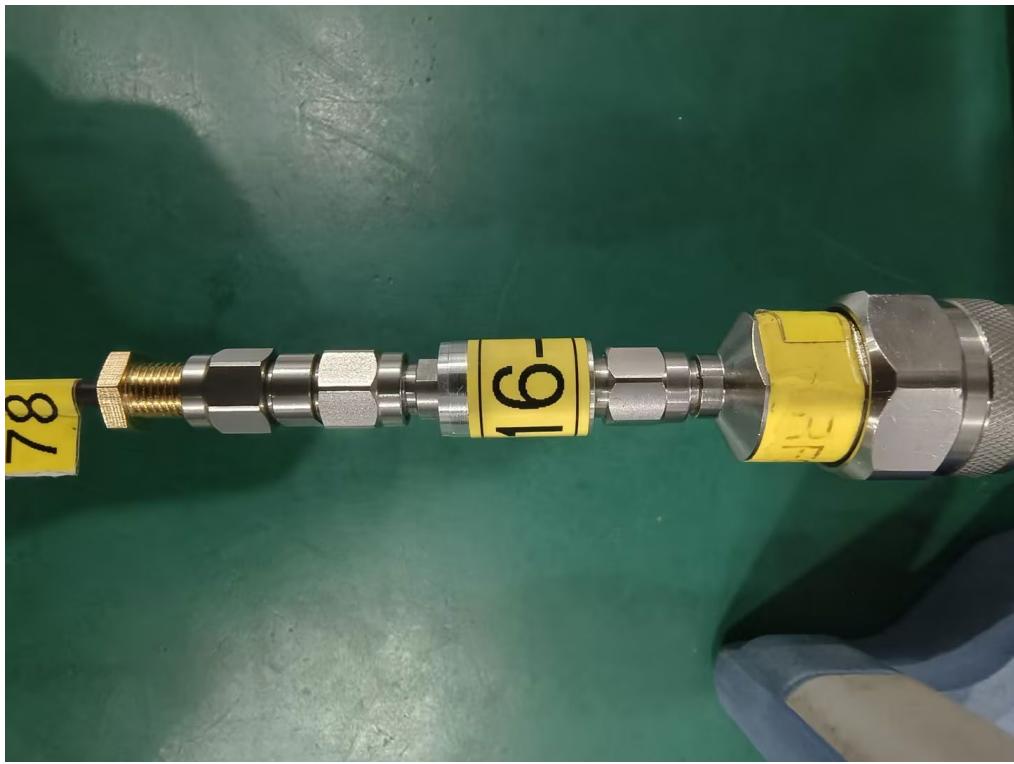
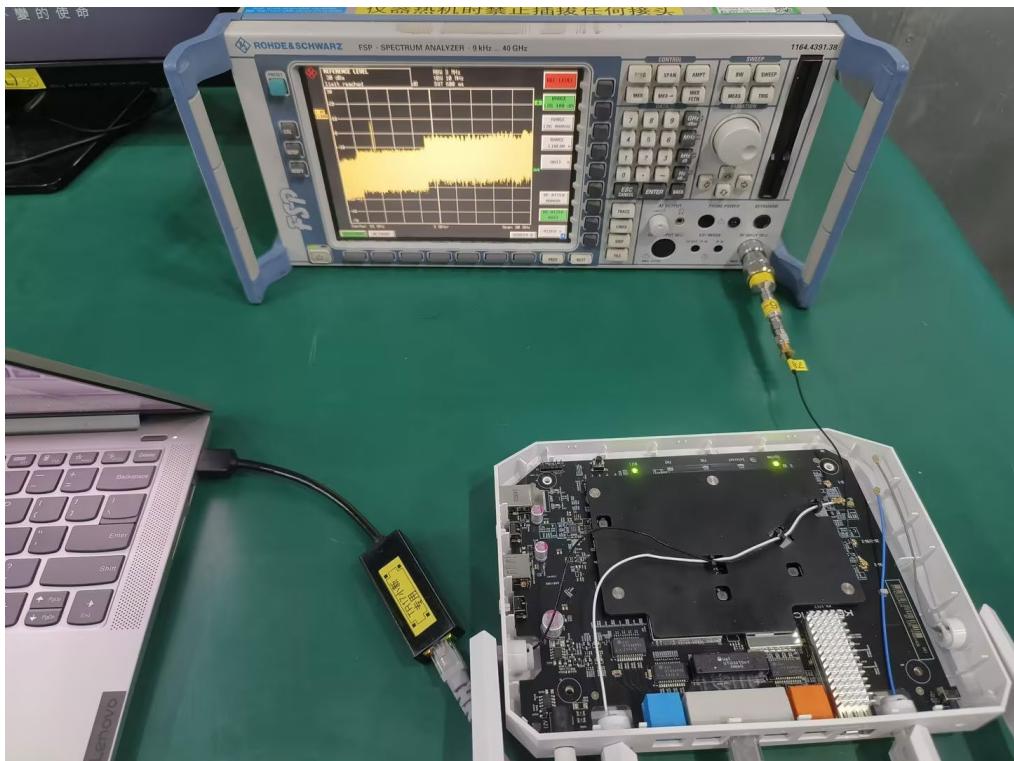
**Above 1 GHz  
Band edge & Harmonic(1 GHz to 18 GHz)**



**Radiated Emissions Test Photos**

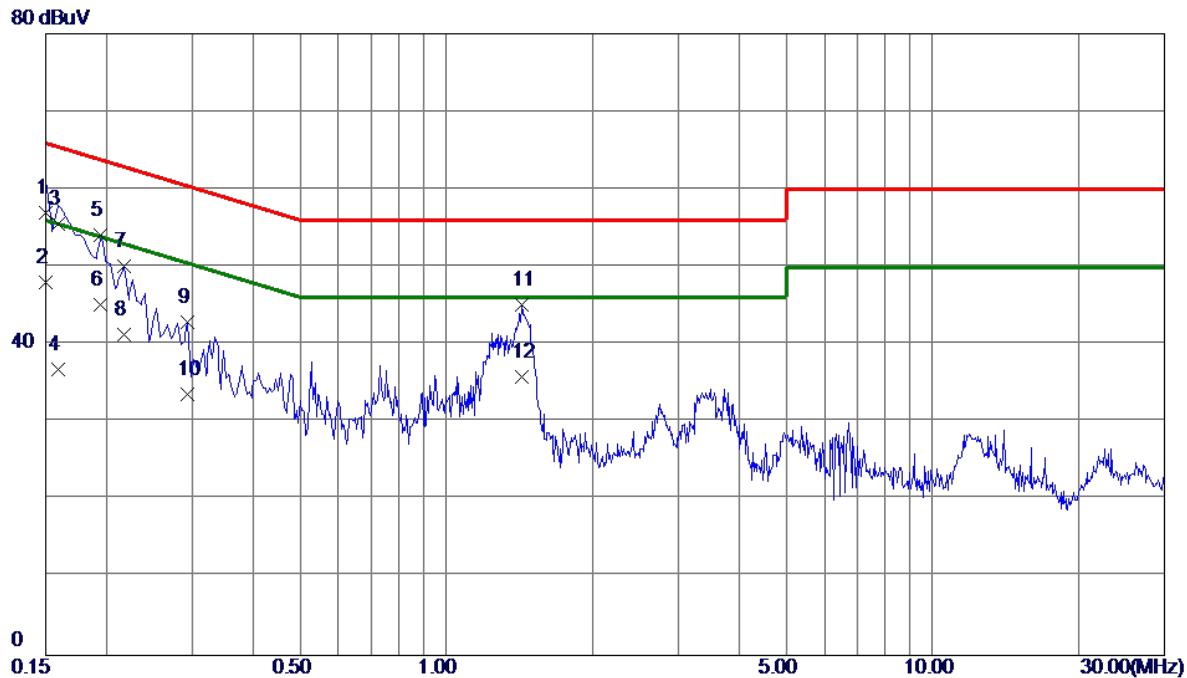
**Above 1 GHz  
Band edge & Harmonic(18 GHz to 26.5 GHz)**



**Conducted Test Photos**

## APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX AX(HE20) Mode Channel 06	Phase	Line
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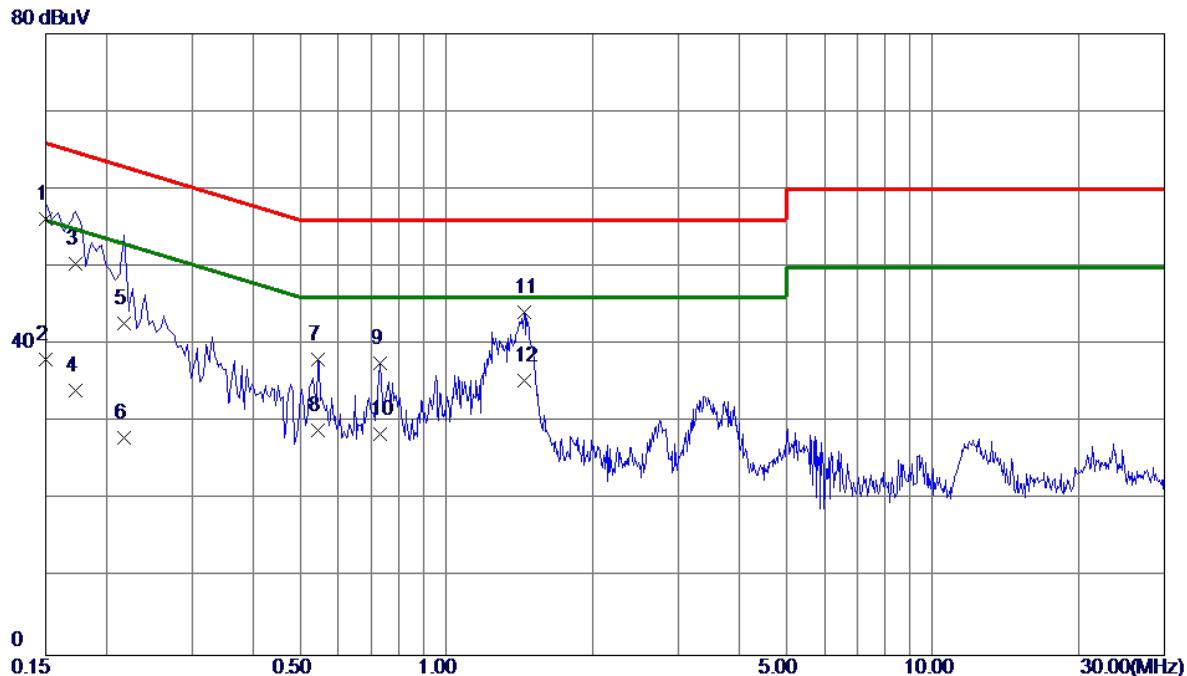


No.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure ment dBuV	Limit dB	Margin dB	Detector		Comment
							Detector	Comment	
1	0. 1500	47. 00	9. 96	56. 96	66. 00	-9. 04	QP		
2 *	0. 1500	38. 10	9. 96	48. 06	56. 00	-7. 94	AVG		
3	0. 1590	45. 60	9. 97	55. 57	65. 52	-9. 95	QP		
4	0. 1590	26. 80	9. 97	36. 77	55. 52	-18. 75	AVG		
5	0. 1949	44. 10	9. 98	54. 08	63. 83	-9. 75	QP		
6	0. 1949	35. 20	9. 98	45. 18	53. 83	-8. 65	AVG		
7	0. 2175	40. 03	10. 01	50. 04	62. 91	-12. 87	QP		
8	0. 2175	31. 30	10. 01	41. 31	52. 91	-11. 60	AVG		
9	0. 2940	32. 78	10. 16	42. 94	60. 41	-17. 47	QP		
10	0. 2940	23. 50	10. 16	33. 66	50. 41	-16. 75	AVG		
11	1. 4325	33. 80	11. 28	45. 08	56. 00	-10. 92	QP		
12	1. 4325	24. 59	11. 28	35. 87	46. 00	-10. 13	AVG		

## REMARKS:

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

Test Mode	TX AX(HE20) Mode Channel 06	Phase	Neutral
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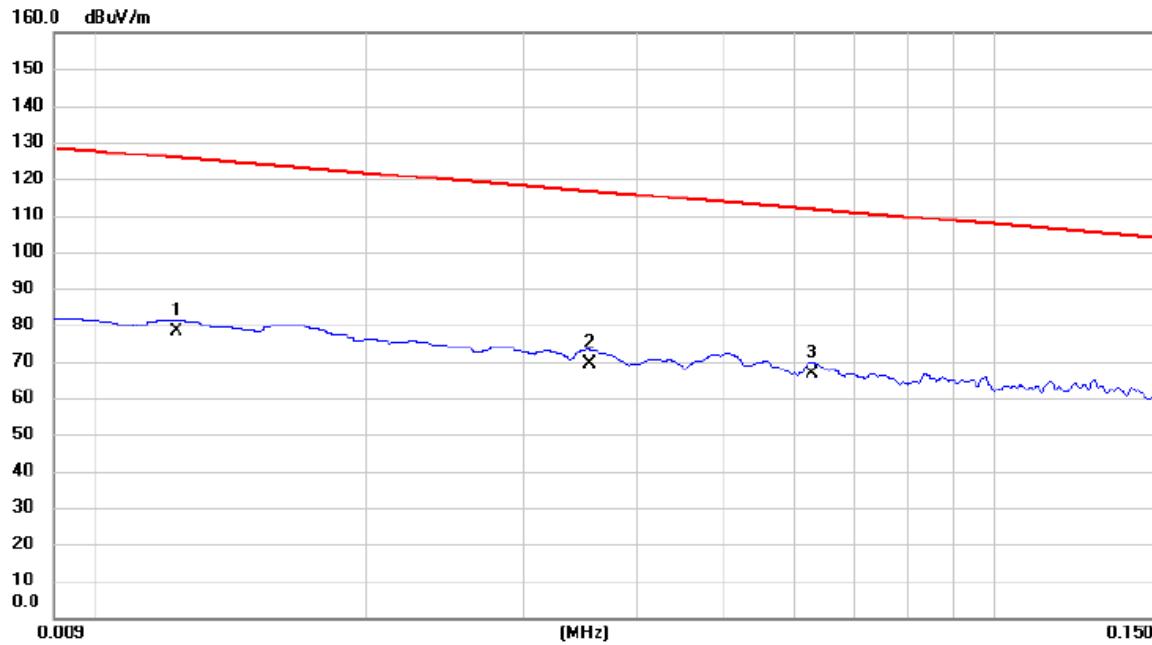
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dB	Margin dB	Detector	Comment
1 *	0. 1500	46. 30	9. 93	56. 23	66. 00	-9. 77	QP	
2	0. 1500	28. 10	9. 93	38. 03	56. 00	-17. 97	AVG	
3	0. 1725	40. 50	9. 93	50. 43	64. 84	-14. 41	QP	
4	0. 1725	24. 20	9. 93	34. 13	54. 84	-20. 71	AVG	
5	0. 2175	32. 70	9. 97	42. 67	62. 91	-20. 24	QP	
6	0. 2175	18. 10	9. 97	28. 07	52. 91	-24. 84	AVG	
7	0. 5460	27. 45	10. 68	38. 13	56. 00	-17. 87	QP	
8	0. 5460	18. 30	10. 68	28. 98	46. 00	-17. 02	AVG	
9	0. 7304	26. 58	10. 98	37. 56	56. 00	-18. 44	QP	
10	0. 7304	17. 50	10. 98	28. 48	46. 00	-17. 52	AVG	
11	1. 4460	32. 99	11. 23	44. 22	56. 00	-11. 78	QP	
12	1. 4460	24. 19	11. 23	35. 42	46. 00	-10. 58	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 AX(HE20) Mode Channel 06	Polarization	Ant 0°
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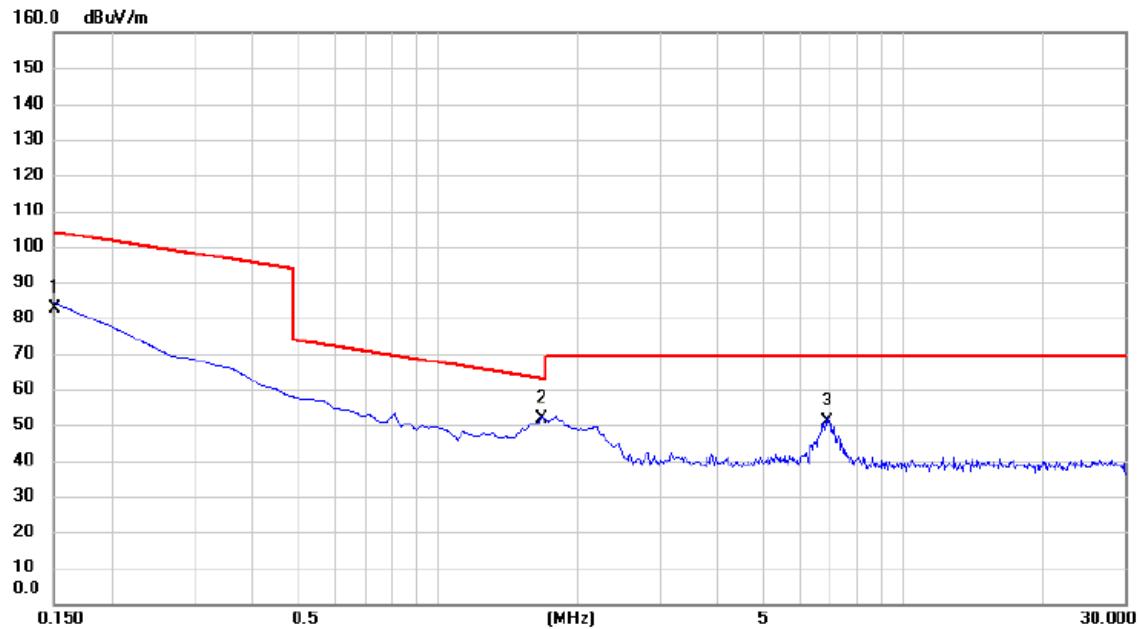


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.0123	57.65	20.57	78.22	125.81	-47.59	AVG	
2		0.0354	48.11	21.13	69.24	116.62	-47.38	AVG	
3	*	0.0627	45.36	21.24	66.60	111.66	-45.06	AVG	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode Channel 06	Polarization	Ant 0°
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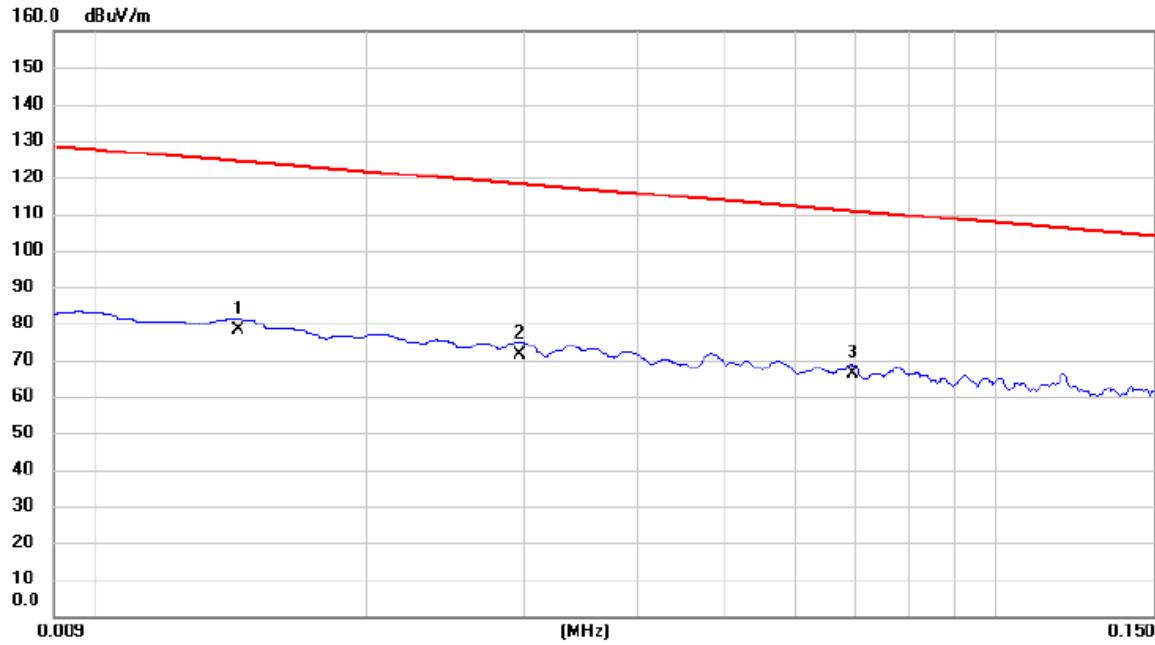


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	61.36	21.30	82.66	104.09	-21.43	AVG	
2	*	1.6724	30.52	21.18	51.70	63.14	-11.44	QP	
3		6.8662	29.54	21.30	50.84	69.54	-18.70	QP	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode Channel 06	Polarization	Ant 90°
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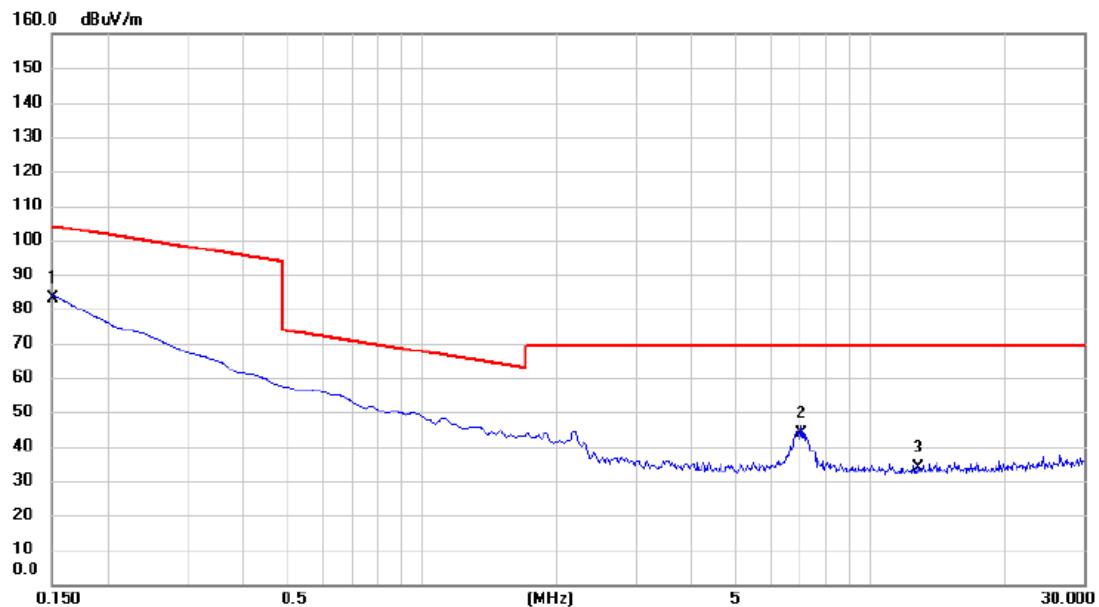


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0144	57.45	20.63	78.08	124.44	-46.36	AVG	
2		0.0296	50.36	21.09	71.45	118.18	-46.73	AVG	
3	*	0.0693	44.75	21.26	66.01	110.79	-44.78	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode Channel 06	Polarization	Ant 90°
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	0.1500	61.82	21.30	83.12	104.09	-20.97	AVG
2		7.0454	22.31	21.30	43.61	69.54	-25.93	QP
3		12.8362	12.46	21.37	33.83	69.54	-35.71	QP

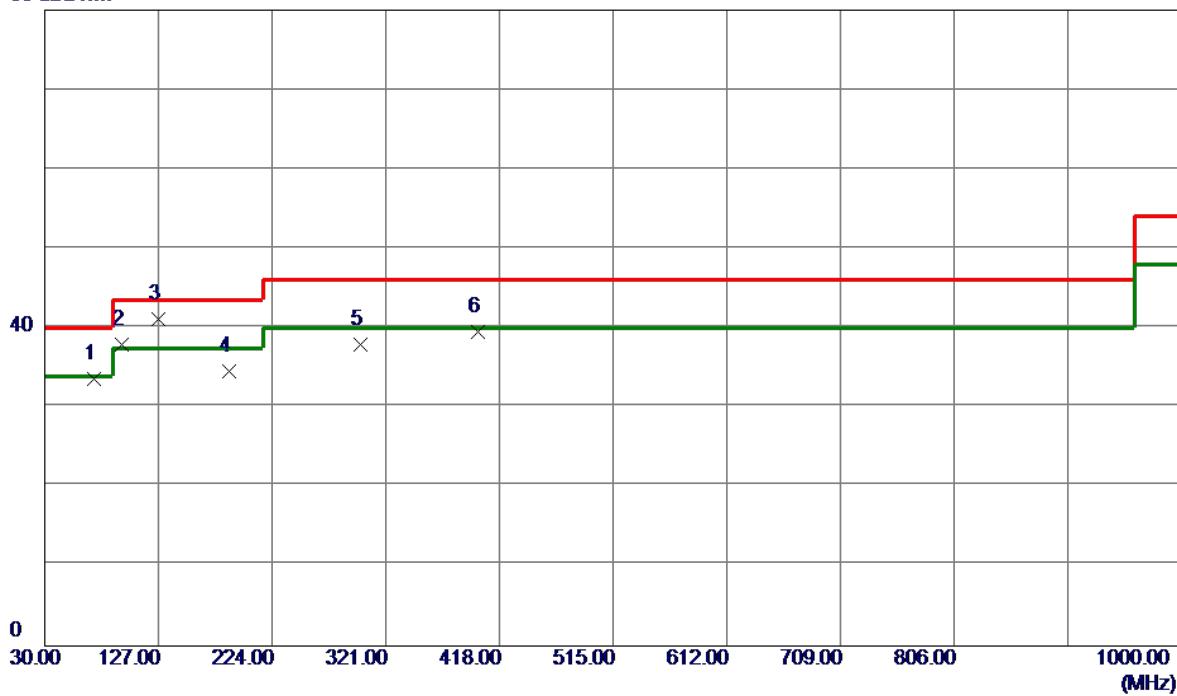
## REMARKS:

(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 AX(HE20) Mode Channel 06	Polarization	Vertical
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80 dBuV/m



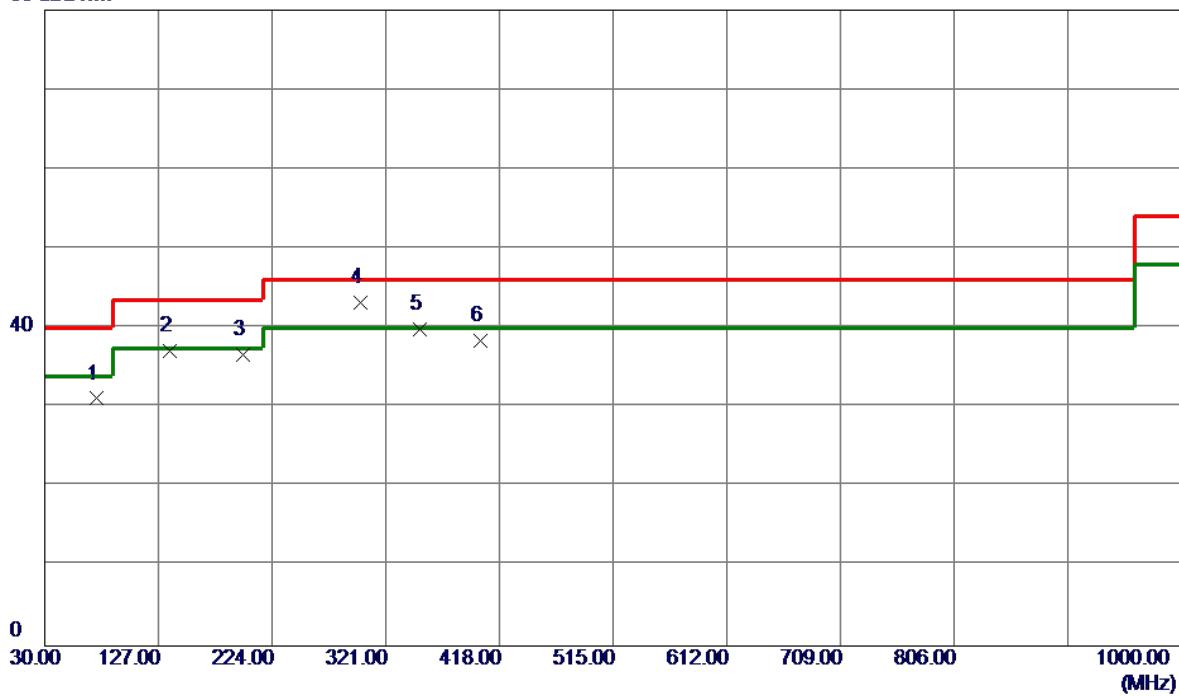
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector		Comment
							Detector	Comment	
1	72.1950	47.50	-13.88	33.62	40.00	-6.38	QP		
2	95.4750	54.58	-16.69	37.89	43.50	-5.61	Peak		
3 *	127.0000	53.72	-12.64	41.08	43.50	-2.42	Peak		
4	187.6250	48.00	-13.49	34.51	43.50	-8.99	Peak		
5	299.6600	48.55	-10.59	37.96	46.00	-8.04	Peak		
6	400.0550	47.63	-8.04	39.59	46.00	-6.41	Peak		

## REMARKS:

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

Test Mode	TX AX(HE20) Mode Channel 06	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
							Detector	Comment	
1	74.6200	45.41	-14.29	31.12	40.00	-8.88	Peak		
2	136.7000	49.06	-11.93	37.13	43.50	-6.37	Peak		
3	199.2650	51.08	-14.39	36.69	43.50	-6.81	Peak		
4 *	299.1750	53.83	-10.60	43.23	46.00	-2.77	Peak		
5	350.5850	49.28	-9.44	39.84	46.00	-6.16	Peak		
6	401.9950	46.37	-7.99	38.38	46.00	-7.62	Peak		

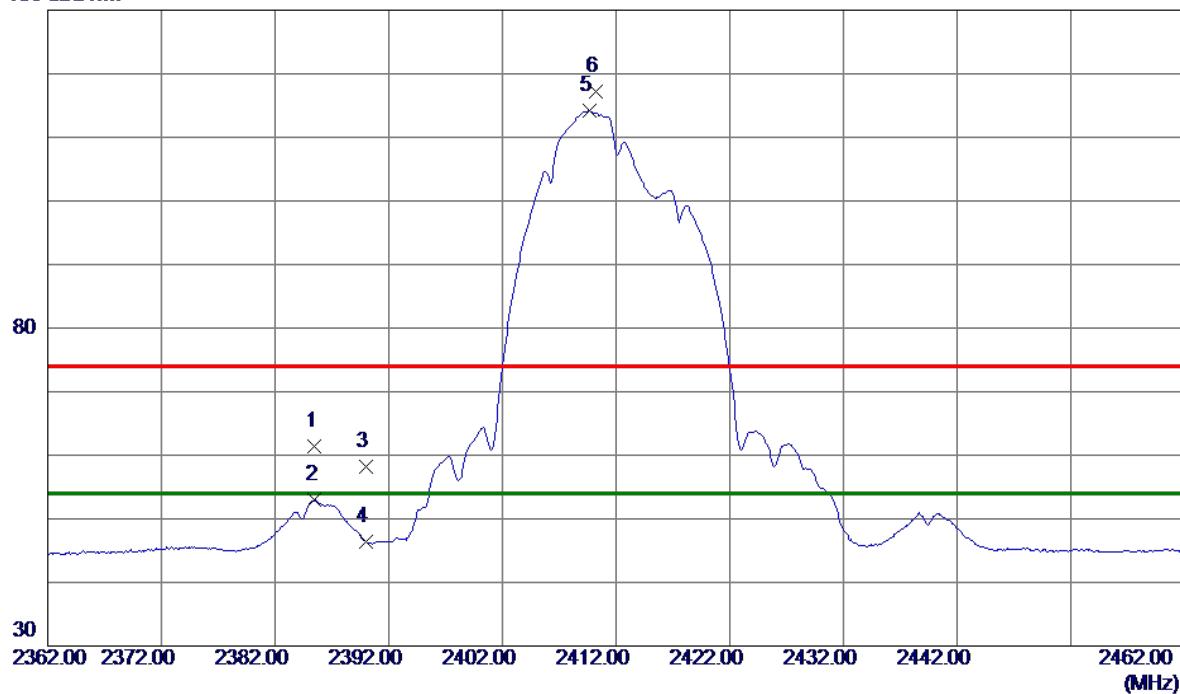
## REMARKS:

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

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



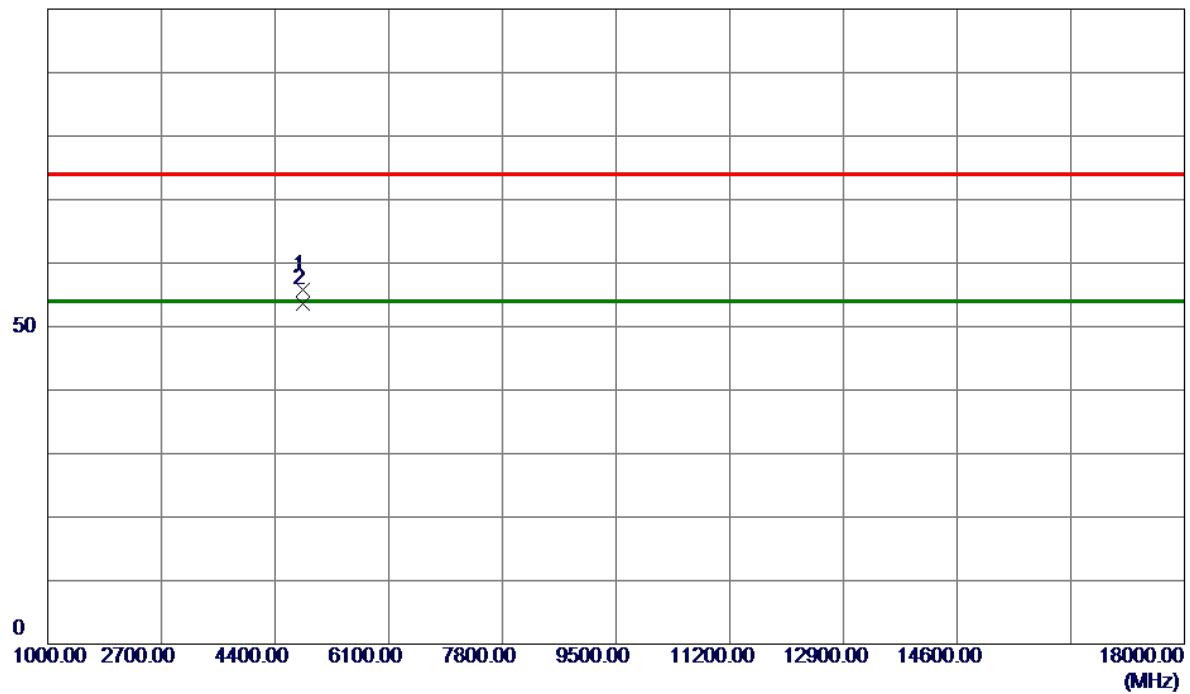
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector		Comment
							Detector	Comment	
1	2385.5000	51.96	9.44	61.40	74.00	-12.60	Peak		
2	2385.5000	43.47	9.44	52.91	54.00	-1.09	AVG		
3	2390.0000	48.68	9.44	58.12	74.00	-15.88	Peak		
4	2390.0000	37.04	9.44	46.48	54.00	-7.52	AVG		
5 *	2409.7000	104.66	9.45	114.11	54.00	60.11	AVG		No Limit
6	2410.2000	107.85	9.45	117.30	74.00	43.30	Peak		No Limit

## REMARKS:

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

Test Mode	TX B Mode 2412 MHz	Polarization	Vertical
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100 dBuV/m



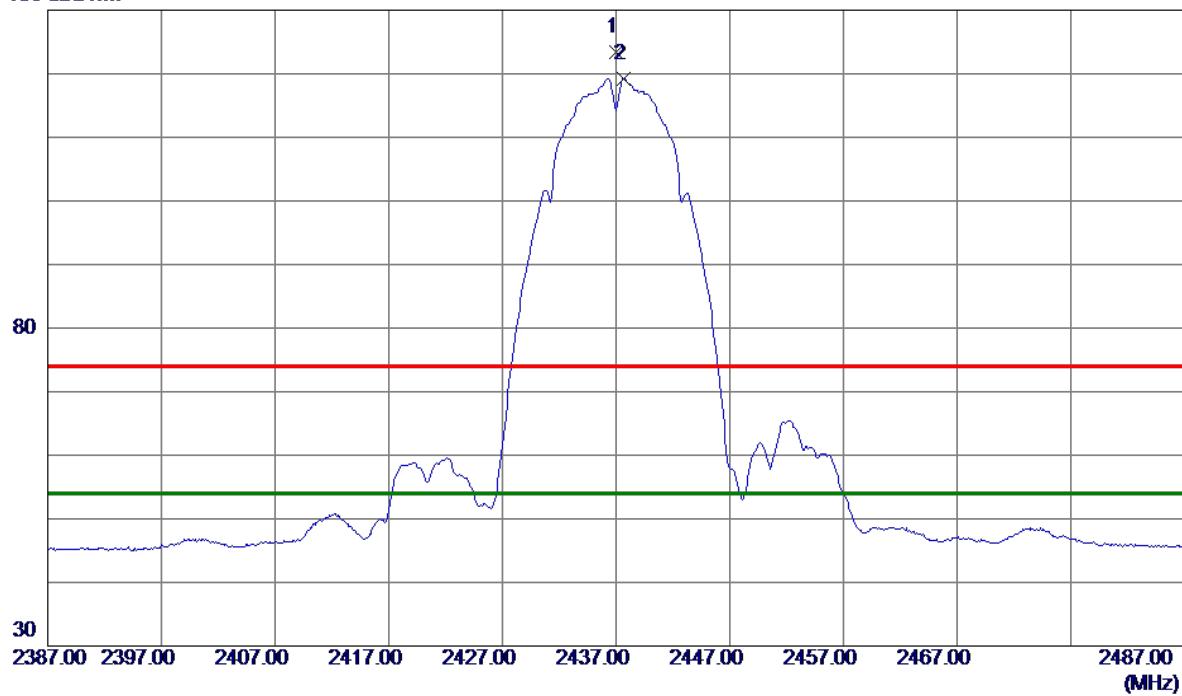
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.8500	52.11	3.77	55.88	74.00	-18.12	Peak	
2 *	4823.9500	49.74	3.77	53.51	54.00	-0.49	AVG	

## REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



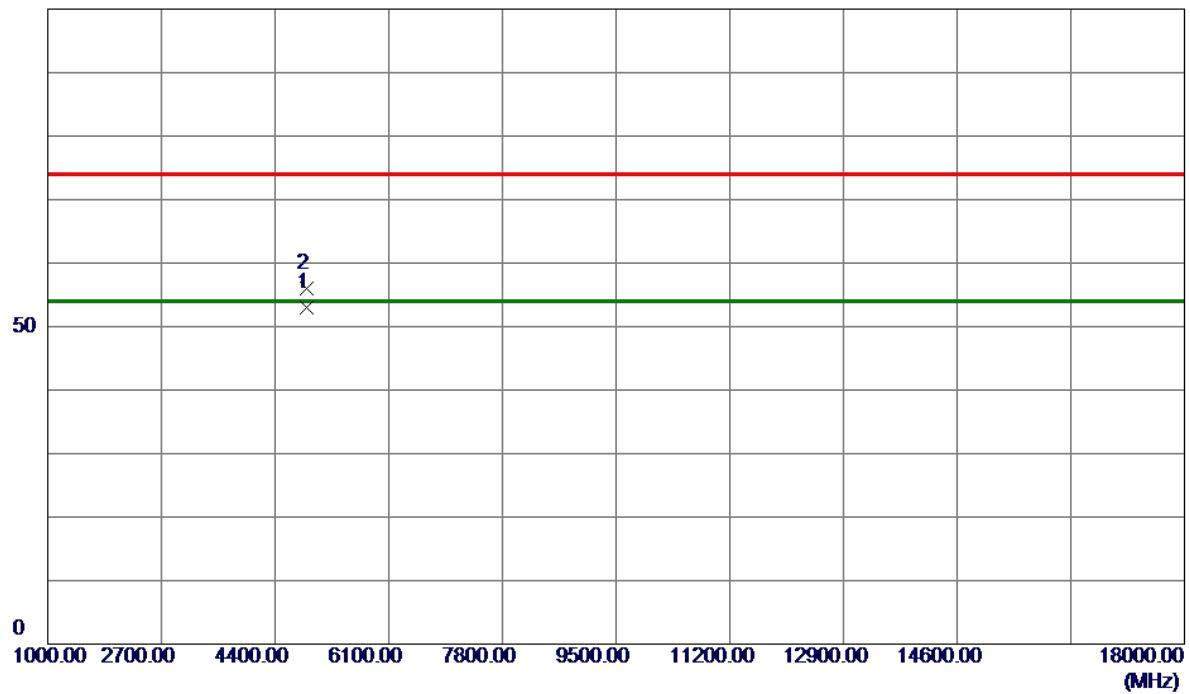
No.	Freq. MHz	Reading Level	Correct Factor	Measure ment	Limit	Margin	Detector	Comment
		dBuV/m	dB	dBuV/m	dB			
1	2437.0000	114.02	9.46	123.48	74.00	49.48	Peak	No Limit
2 *	2437.7000	109.76	9.46	119.22	54.00	65.22	AVG	No Limit

## REMARKS:

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

Test Mode	TX B Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



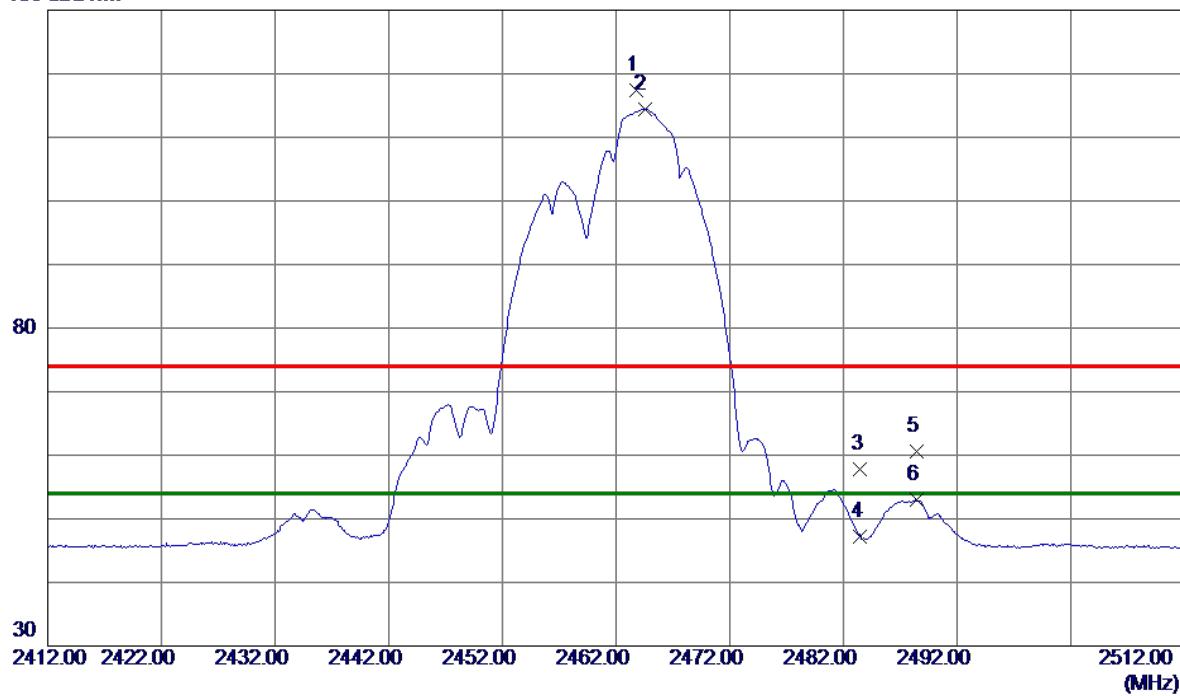
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	4873.9600	49.20	3.86	53.06	54.00	-0.94	AVG	
2	4873.9800	52.18	3.86	56.04	74.00	-17.96	Peak	

**REMARKS:**

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



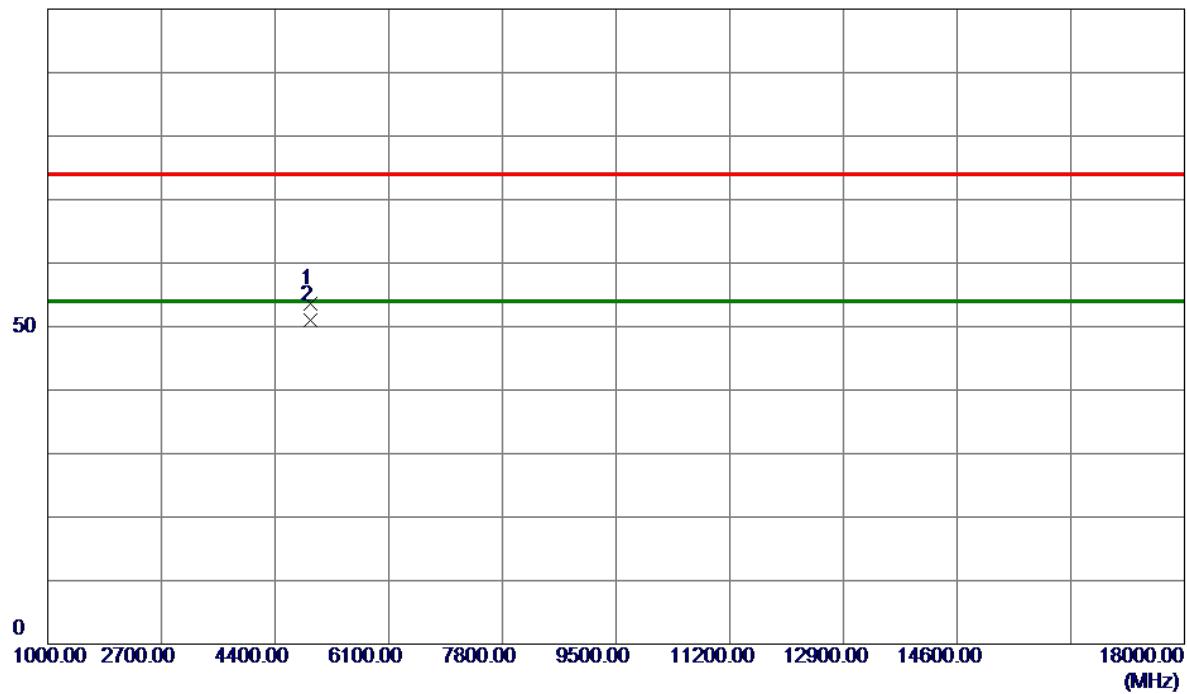
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin dB	Detector		Comment
							Detector	Comment	
1	2463.8000	108.03	9.46	117.49	74.00	43.49	Peak	No Limit	
2 *	2464.5000	104.93	9.46	114.39	54.00	60.39	AVG	No Limit	
3	2483.5000	48.28	9.47	57.75	74.00	-16.25	Peak		
4	2483.5000	37.65	9.47	47.12	54.00	-6.88	AVG		
5	2488.4000	51.05	9.47	60.52	74.00	-13.48	Peak		
6	2488.4000	43.54	9.47	53.01	54.00	-0.99	AVG		

## REMARKS:

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

Test Mode	TX B Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m



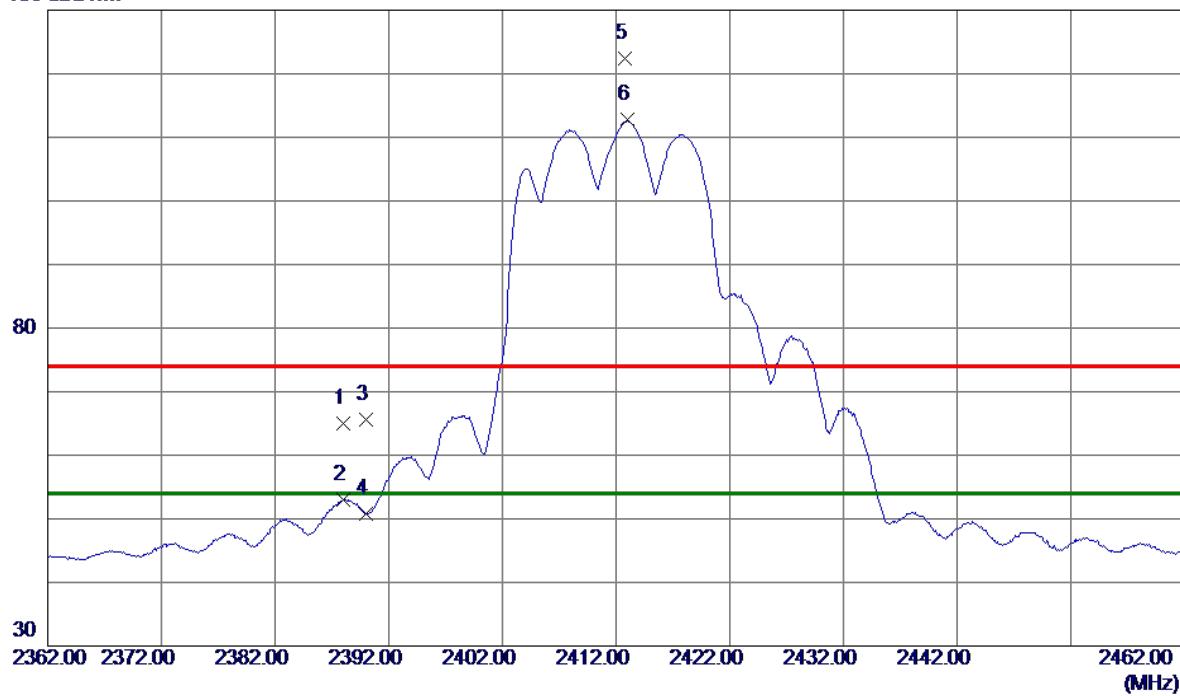
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1	4923.9200	49.66	3.95	53.61	74.00	-20.39	Peak	
2 *	4923.9600	47.12	3.95	51.07	54.00	-2.93	AVG	

**REMARKS:**

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m



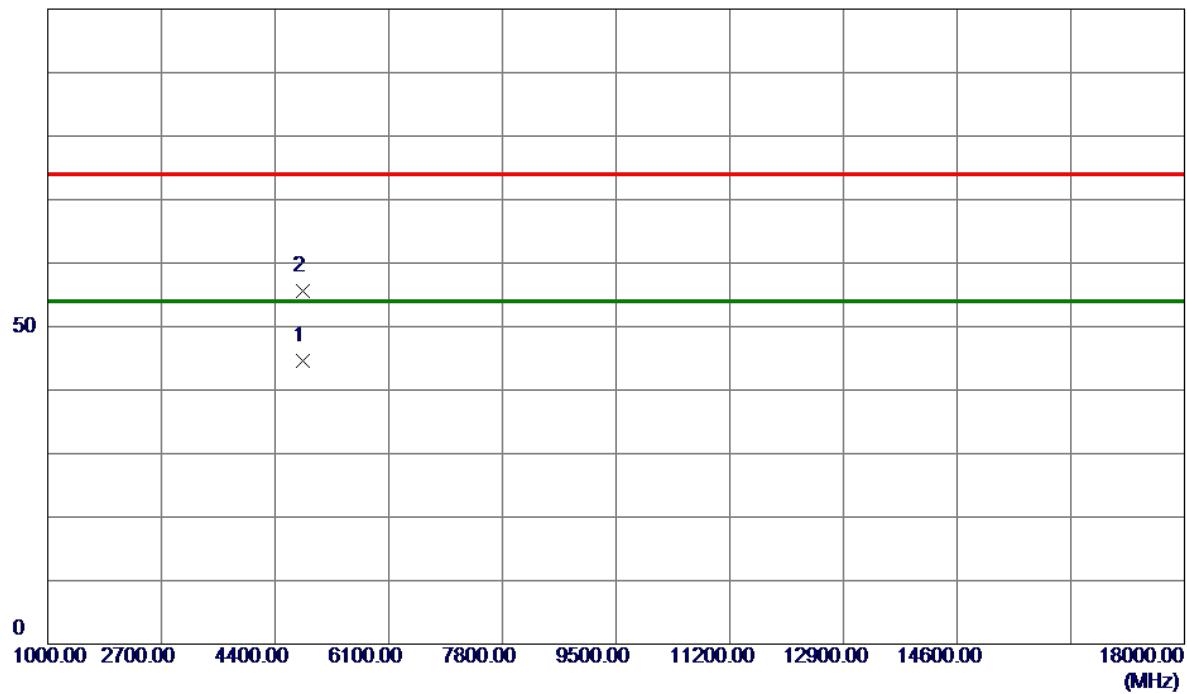
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector		Comment
							Detector	Comment	
1	2388.0000	55.58	9.44	65.02	74.00	-8.98	Peak		
2	2388.0000	43.61	9.44	53.05	54.00	-0.95	AVG		
3	2390.0000	56.19	9.44	65.63	74.00	-8.37	Peak		
4	2390.0000	41.31	9.44	50.75	54.00	-3.25	AVG		
5	2412.8000	112.97	9.45	122.42	74.00	48.42	Peak	No Limit	
6 *	2413.0000	103.32	9.45	112.77	54.00	58.77	AVG	No Limit	

## REMARKS:

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

Test Mode	TX G Mode 2412 MHz	Polarization	Vertical
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100 dBuV/m



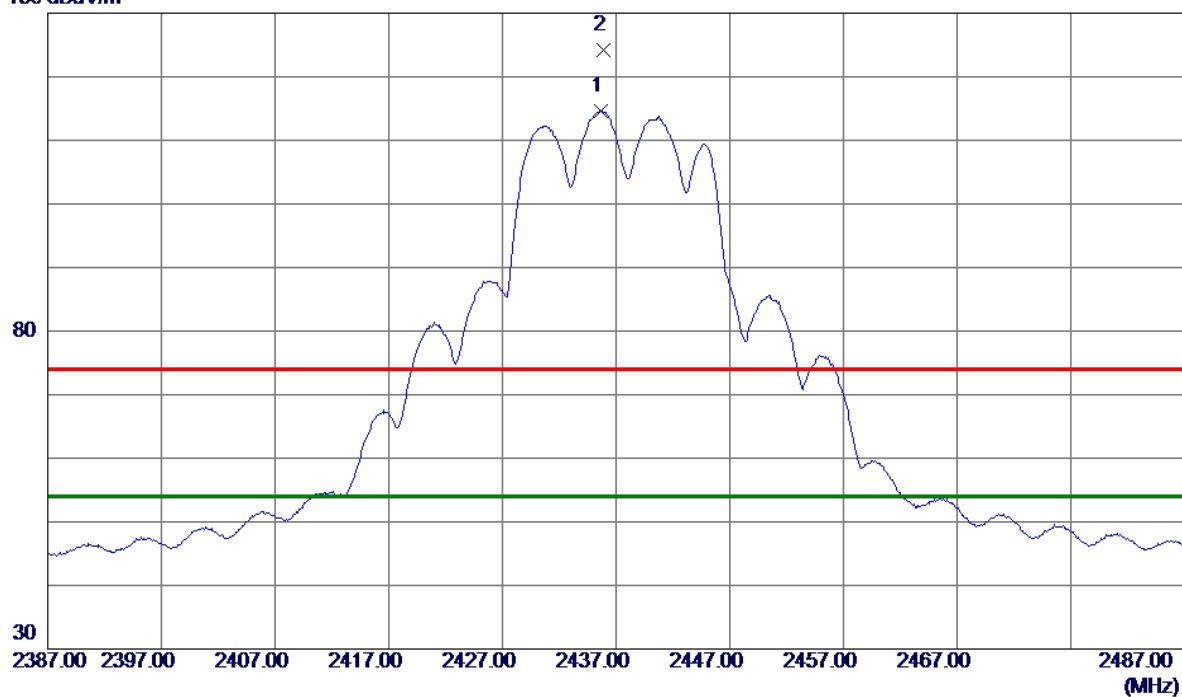
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4819.8000	40.82	3.77	44.59	54.00	-9.41	AVG	
2	4820.3000	51.92	3.77	55.69	74.00	-18.31	Peak	

**REMARKS:**

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m



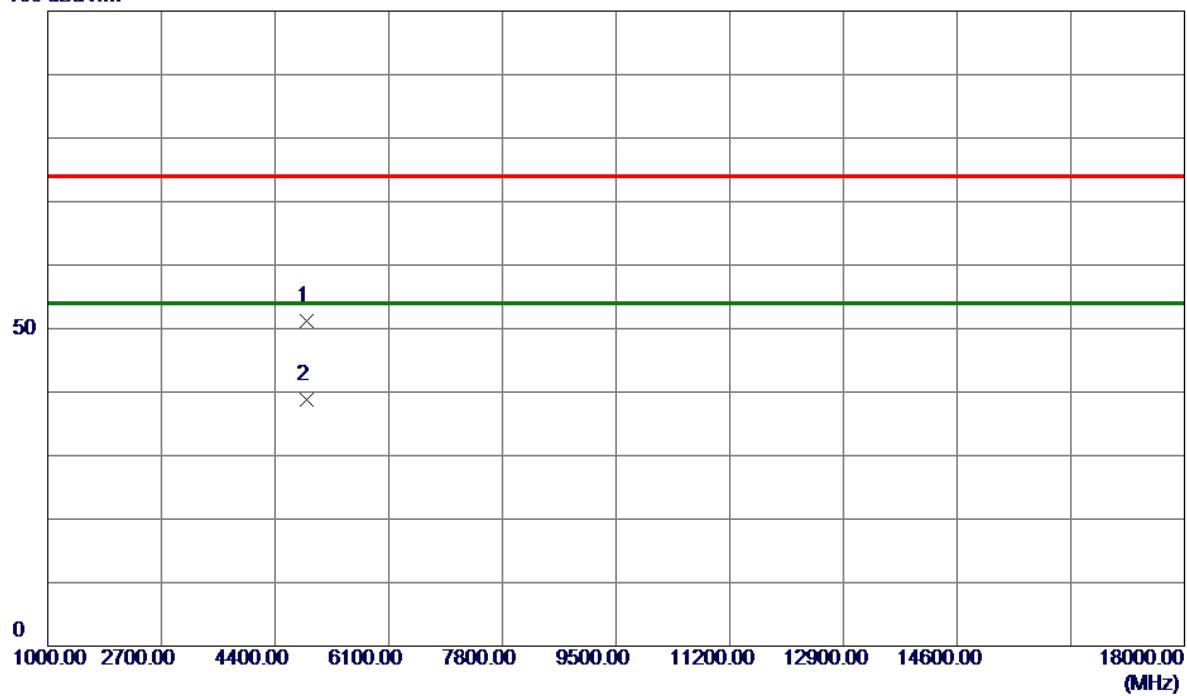
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2435.7000	105.17	9.46	114.63	54.00	60.63	AVG	No Limit
2	2435.9000	114.67	9.46	124.13	74.00	50.13	Peak	No Limit

## REMARKS:

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

Test Mode	TX G Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



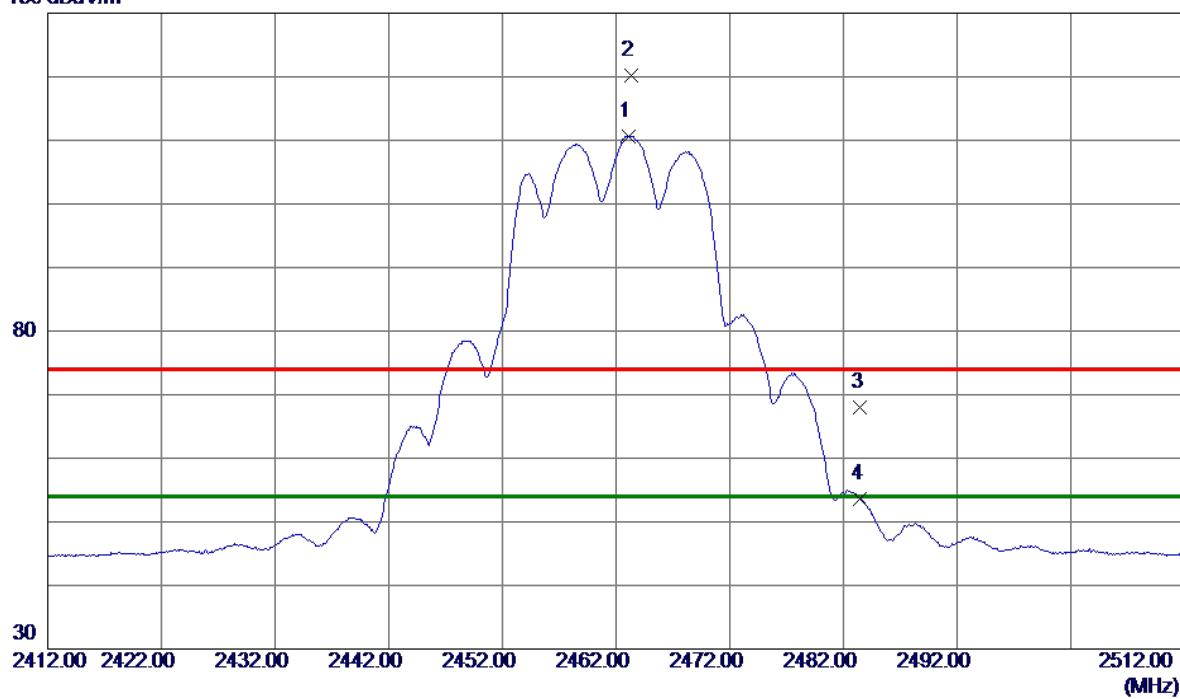
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4875.1500	47.37	3.86	51.23	74.00	-22.77	Peak	
2 *	4875.2000	34.86	3.86	38.72	54.00	-15.28	AVG	

## REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



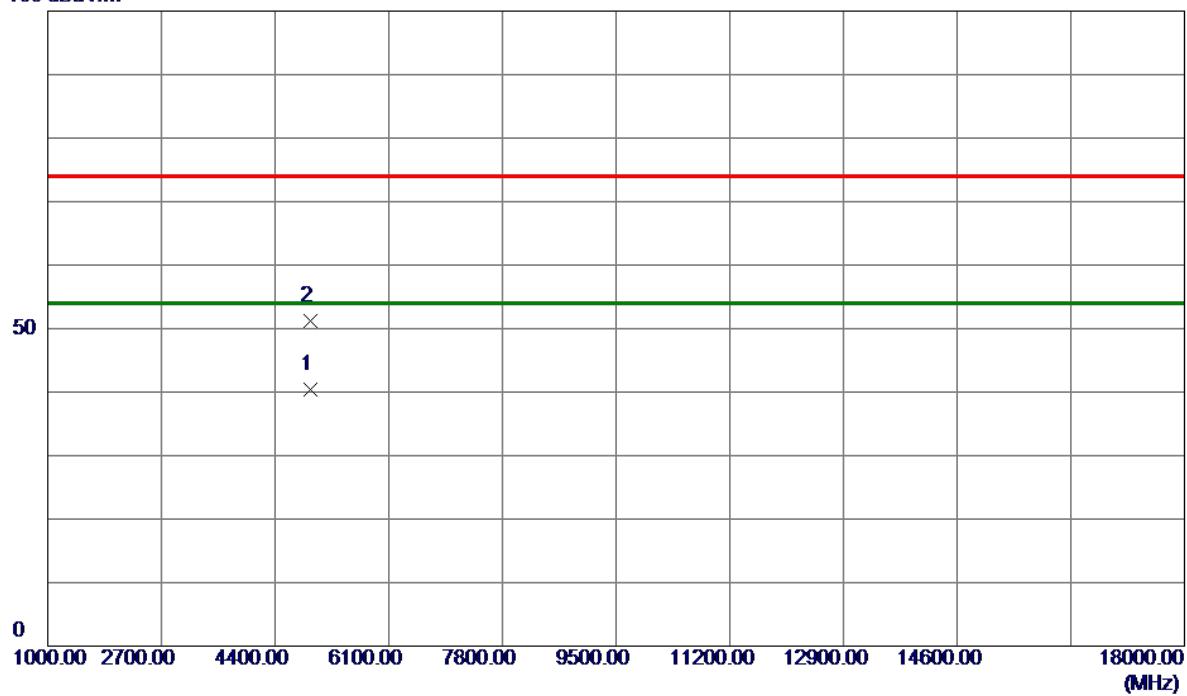
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	2463.1000	101.21	9.46	110.67	54.00	56.67	AVG	No Limit
2	2463.3000	110.69	9.46	120.15	74.00	46.15	Peak	No Limit
3	2483.5000	58.53	9.47	68.00	74.00	-6.00	Peak	
4	2483.5000	44.07	9.47	53.54	54.00	-0.46	AVG	

## REMARKS:

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

Test Mode	TX G Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m



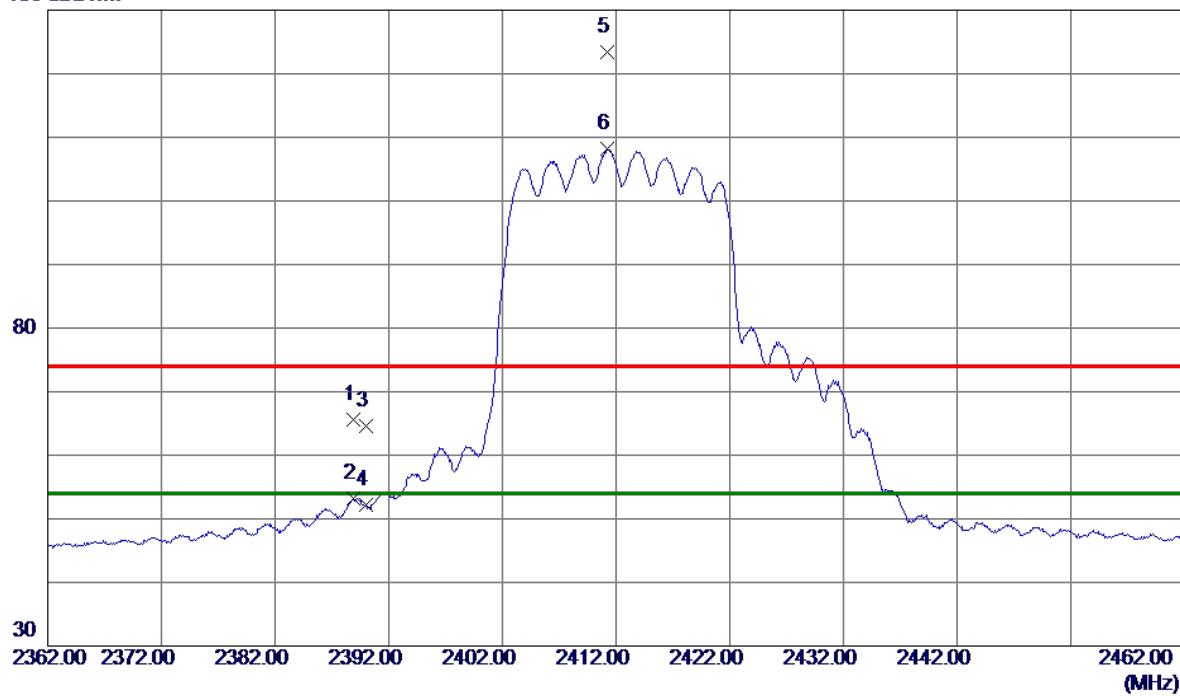
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	4925.1500	36.40	3.95	40.35	54.00	-13.65	AVG	
2	4925.6000	47.27	3.95	51.22	74.00	-22.78	Peak	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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130 dBuV/m

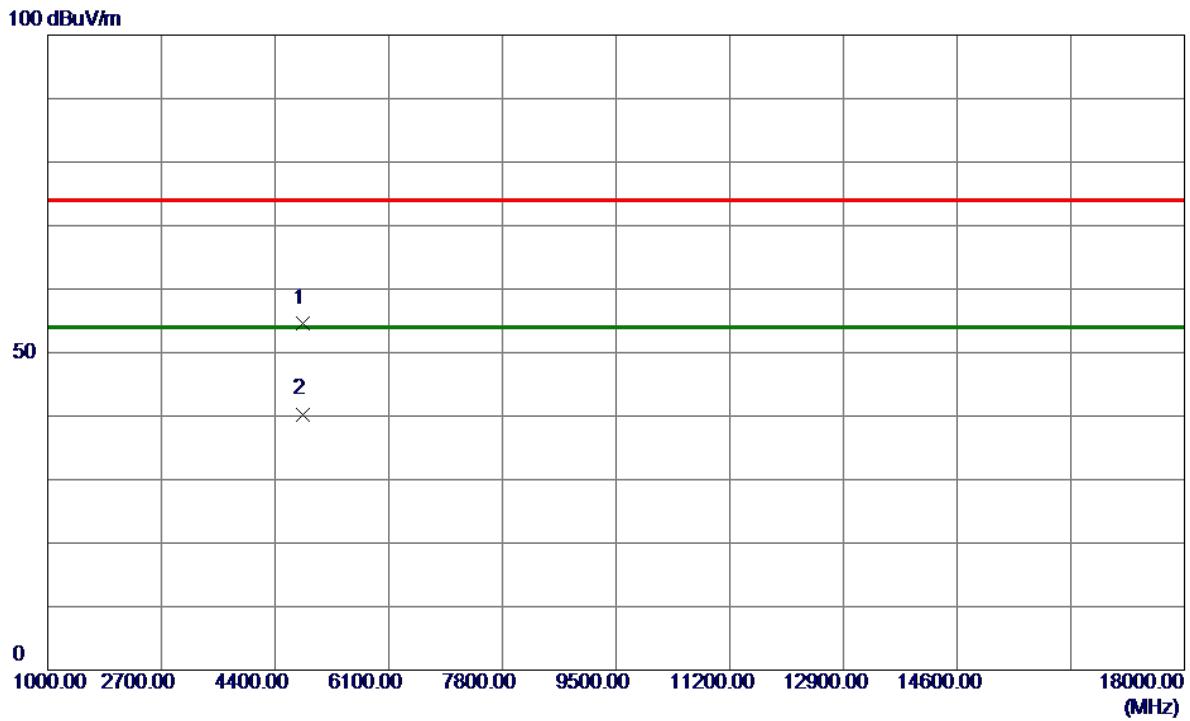


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2388.9000	56.14	9.44	65.58	74.00	-8.42	Peak	
2	2388.9000	43.74	9.44	53.18	54.00	-0.82	AVG	
3	2390.0000	55.19	9.44	64.63	74.00	-9.37	Peak	
4	2390.0000	42.71	9.44	52.15	54.00	-1.85	AVG	
5	2411.2000	113.88	9.45	123.33	74.00	49.33	Peak	No Limit
6 *	2411.2000	98.72	9.45	108.17	54.00	54.17	AVG	No Limit

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2412 MHz	Polarization	Vertical
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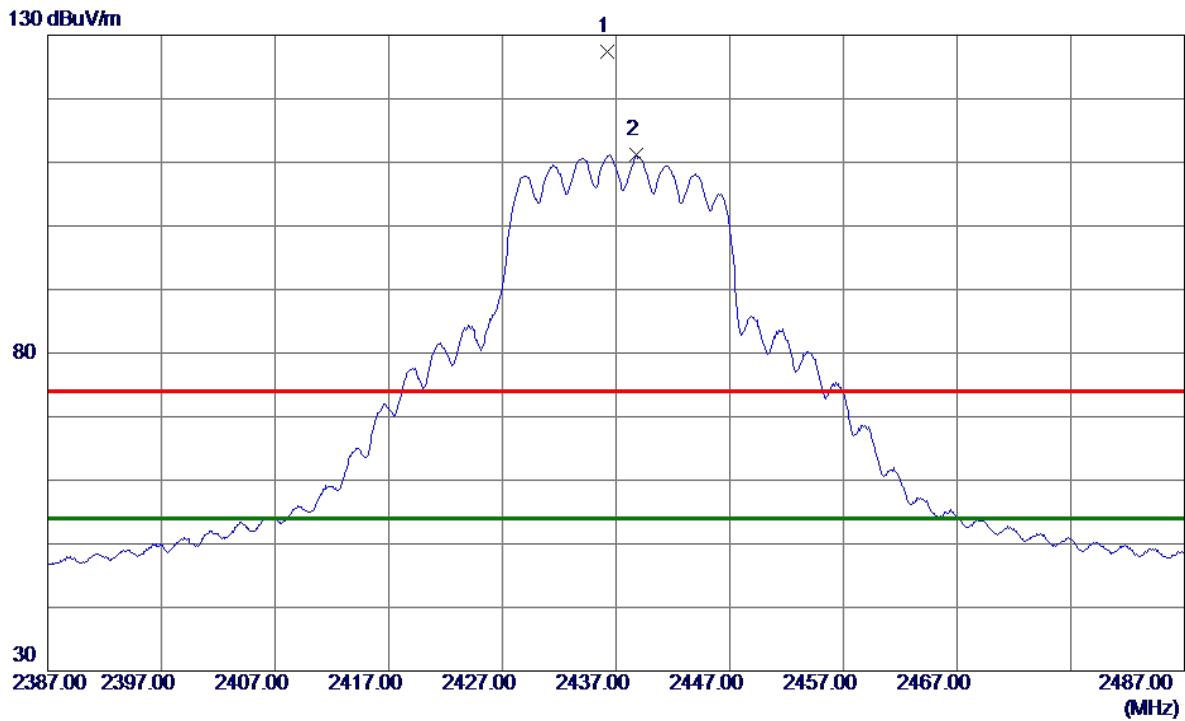


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	
							Detector	Comment
1	4821.9000	50.84	3.77	54.61	74.00	-19.39	Peak	
2 *	4822.3000	36.53	3.77	40.30	54.00	-13.70	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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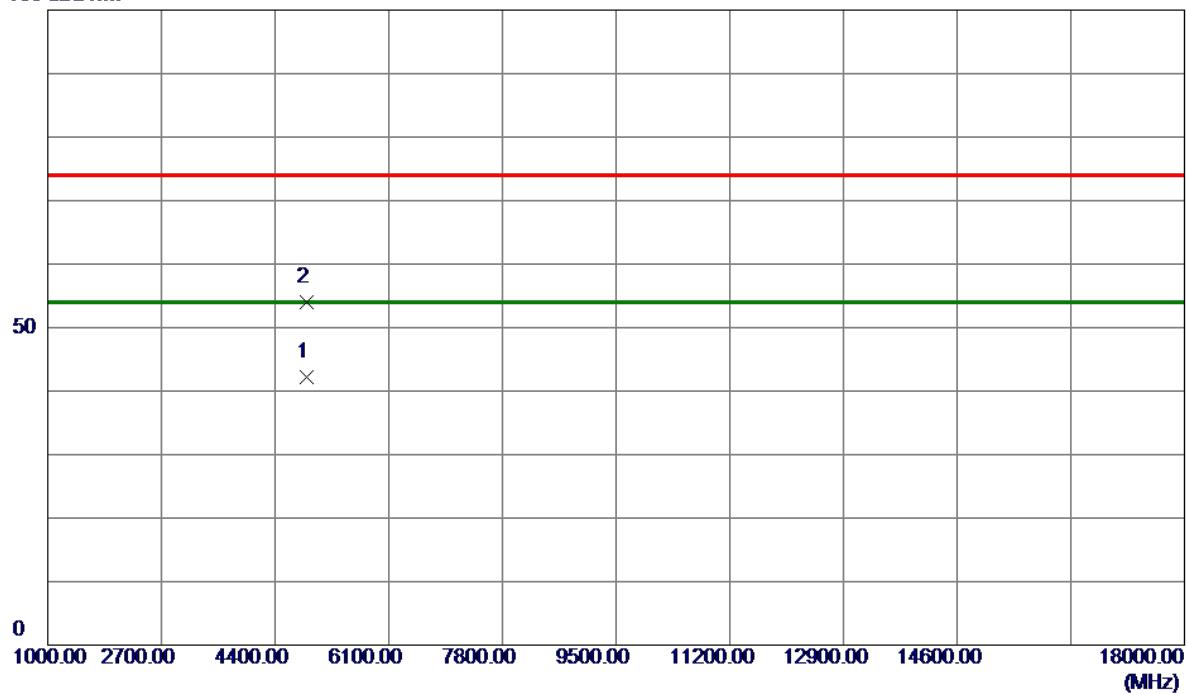
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	2436.2000	117.87	9.46	127.33	74.00	53.33	Peak	No Limit
2 *	2438.8000	101.78	9.46	111.24	54.00	57.24	AVG	No Limit

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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100 dBuV/m



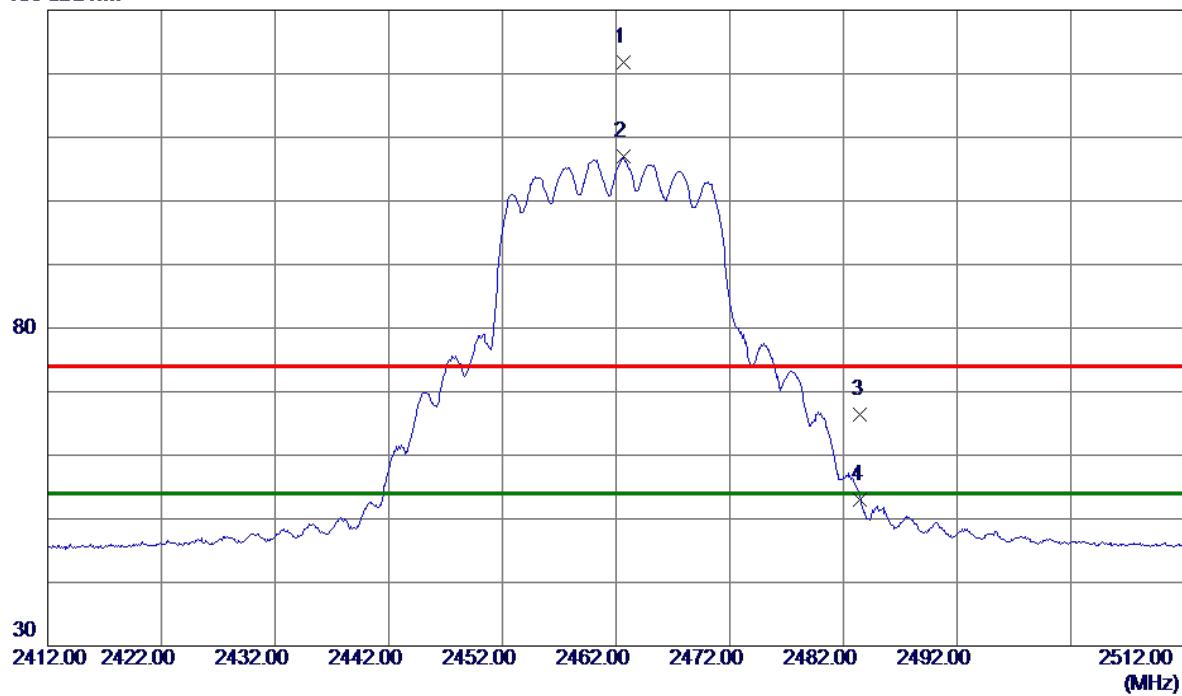
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Margin	
							Detector	Comment
1 *	4872.5500	38.36	3.86	42.22	54.00	-11.78	AVG	
2	4877.2000	50.17	3.87	54.04	74.00	-19.96	Peak	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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130 dBuV/m



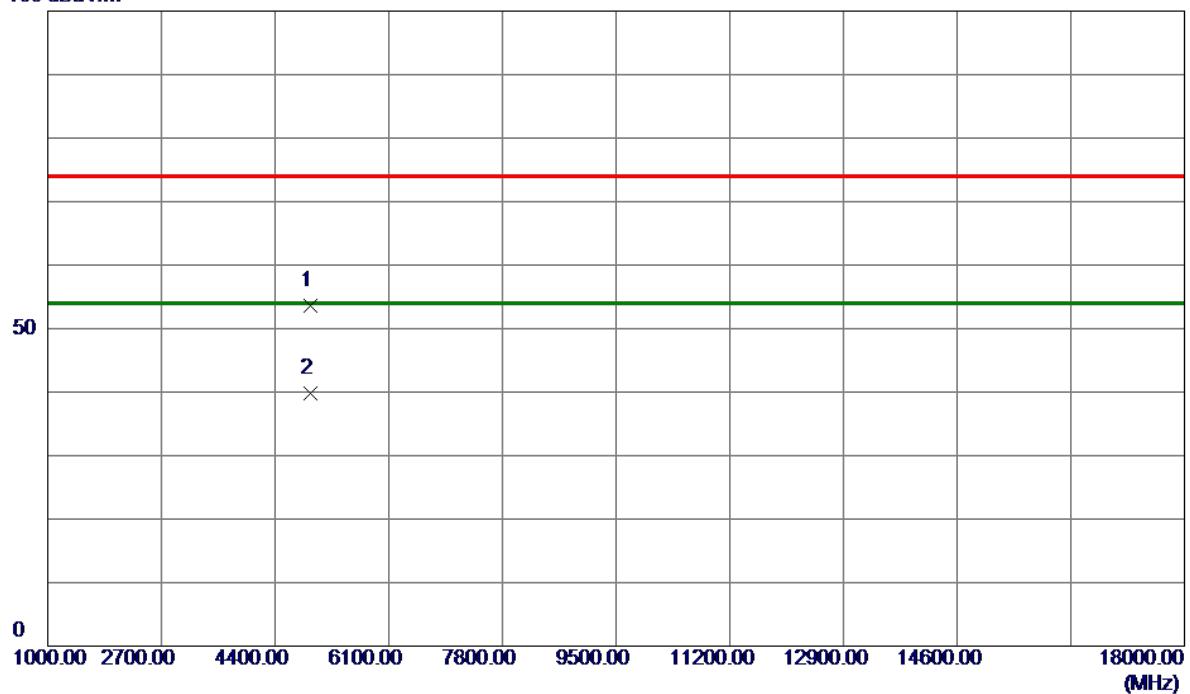
No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1	2462.7000	112.28	9.46	121.74	74.00	47.74	Peak	No Limit
2 *	2462.7000	97.45	9.46	106.91	54.00	52.91	AVG	No Limit
3	2483.5000	56.90	9.47	66.37	74.00	-7.63	Peak	
4	2483.5000	43.55	9.47	53.02	54.00	-0.98	AVG	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2462 MHz	Polarization	Vertical
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100 dBuV/m



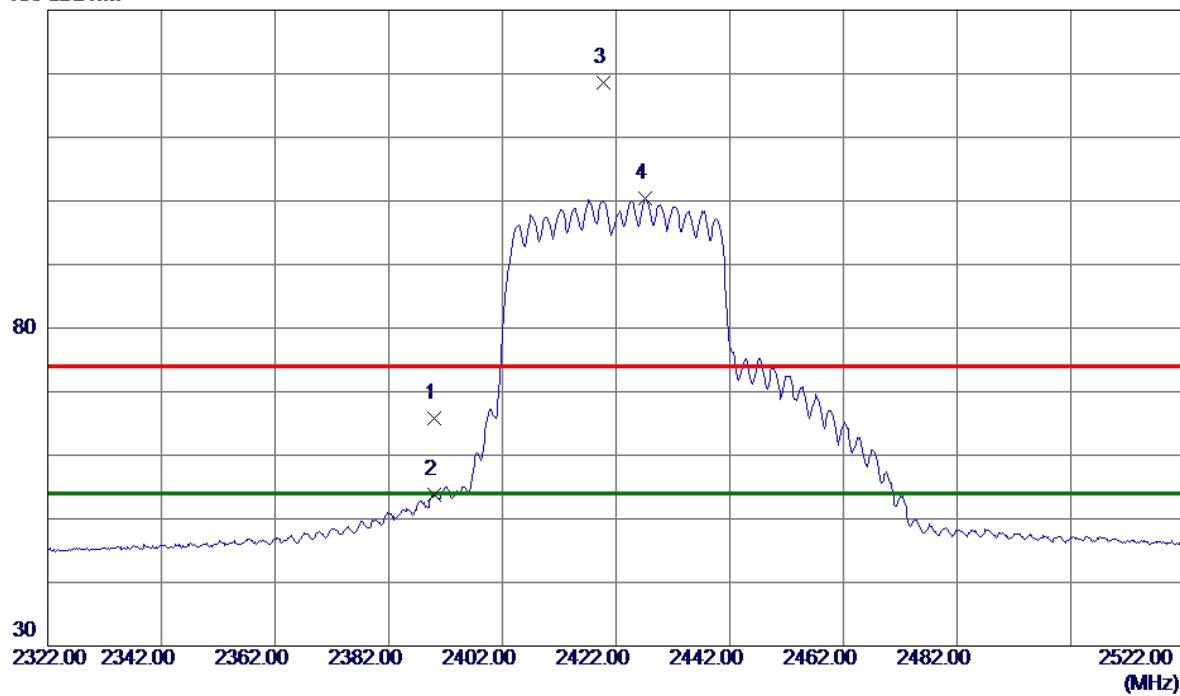
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4919.9000	49.60	3.94	53.54	74.00	-20.46	Peak	
2 *	4922.4500	35.77	3.95	39.72	54.00	-14.28	AVG	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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130 dBuV/m

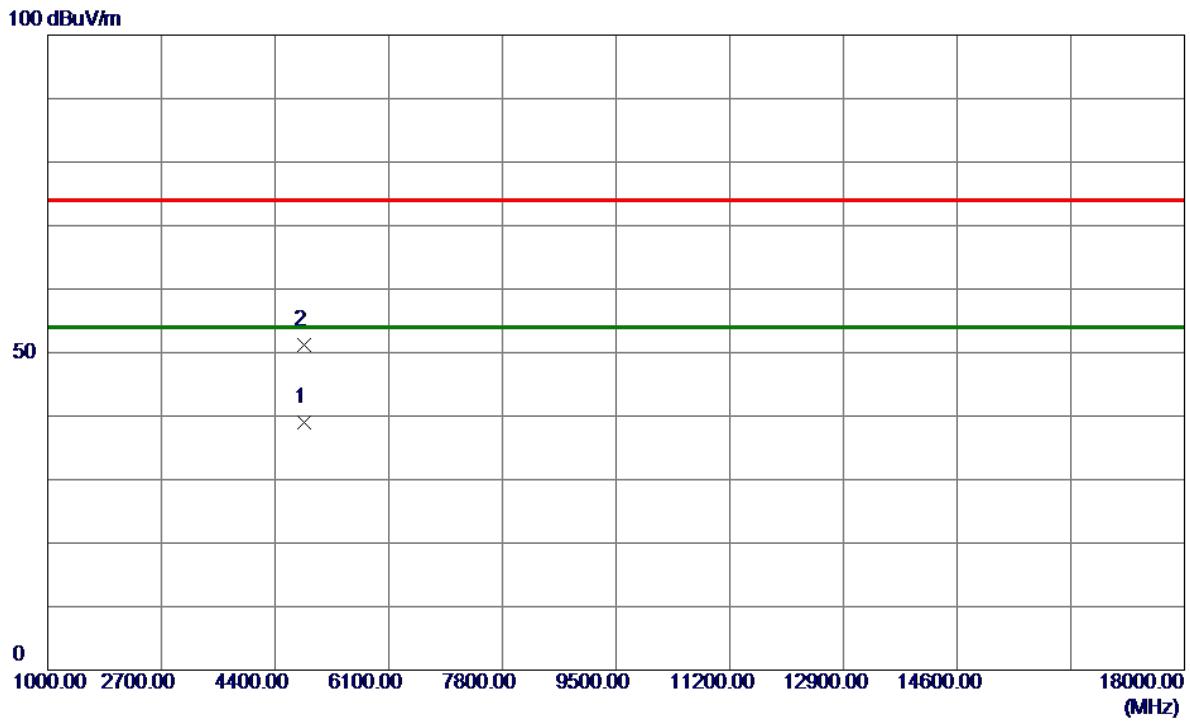


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.32	9.44	65.76	74.00	-8.24	Peak	
2	2390.0000	44.30	9.44	53.74	54.00	-0.26	AVG	
3	2419.8000	109.09	9.45	118.54	74.00	44.54	Peak	No Limit
4 *	2427.2000	91.03	9.45	100.48	54.00	46.48	AVG	No Limit

## REMARKS:

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

Test Mode	TX AX(HE40) Mode 2422 MHz	Polarization	Vertical
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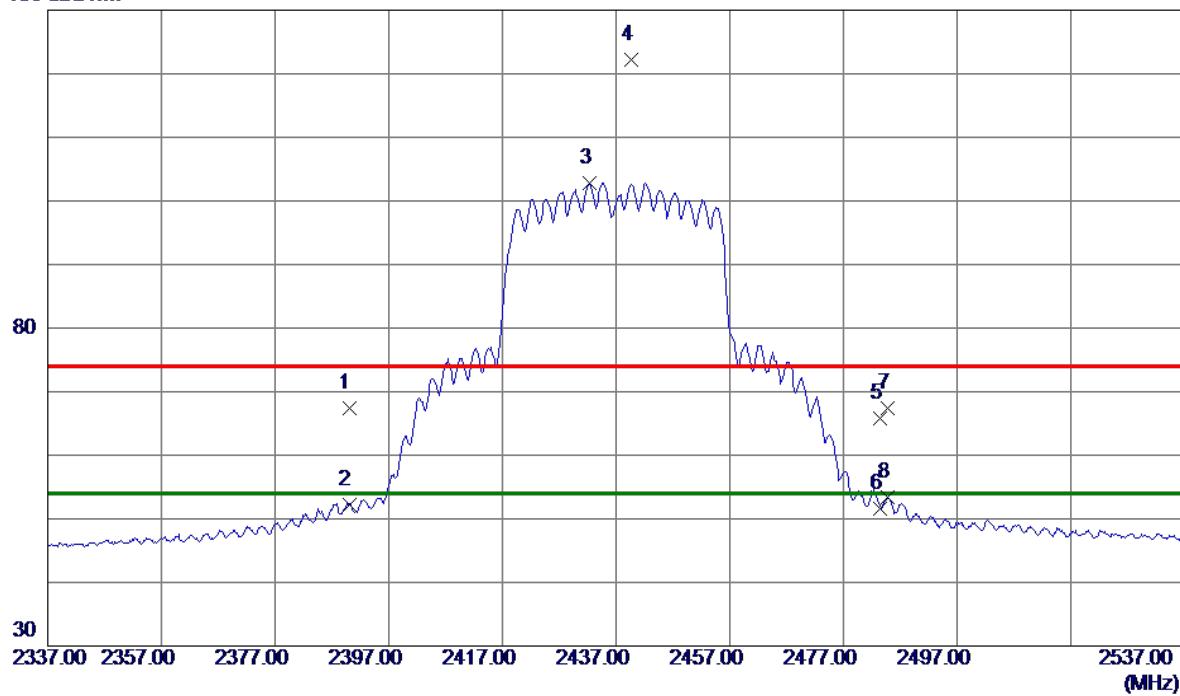
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	
							Detector	Comment
1 *	4834.5000	35.23	3.79	39.02	54.00	-14.98	AVG	
2	4838.8000	47.39	3.80	51.19	74.00	-22.81	Peak	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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130 dBuV/m

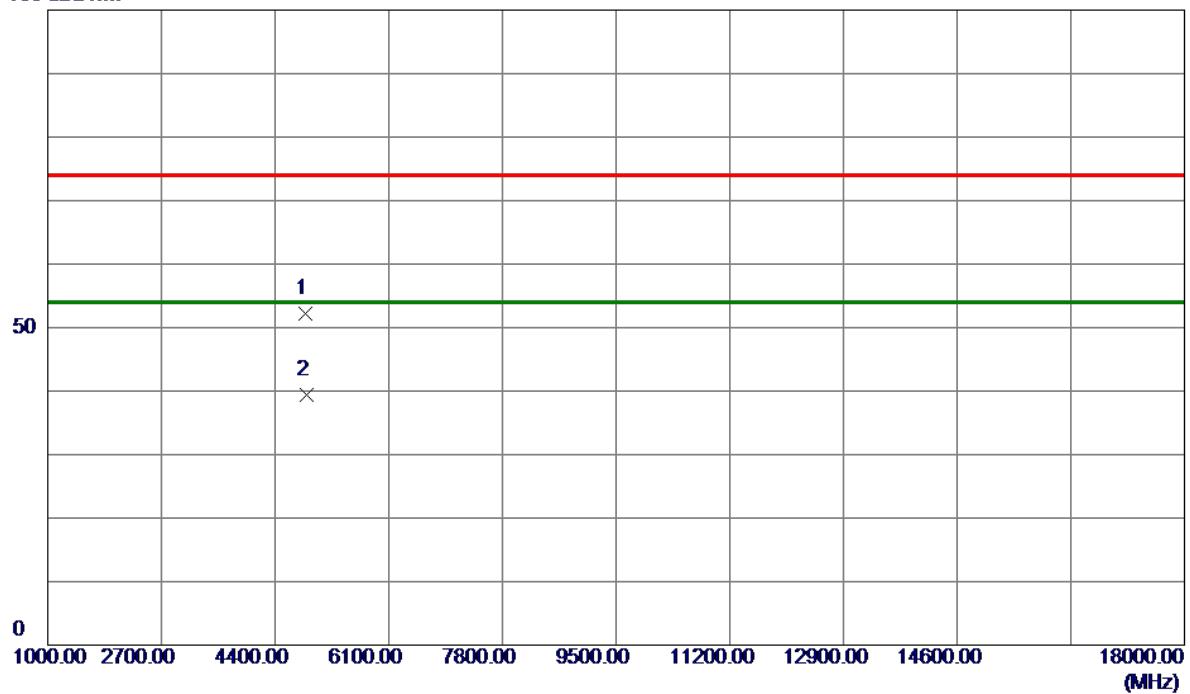


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	58.02	9.44	67.46	74.00	-6.54	Peak	
2	2390.0000	42.85	9.44	52.29	54.00	-1.71	AVG	
3 *	2432.4000	93.41	9.46	102.87	54.00	48.87	AVG	No Limit
4	2439.6000	112.68	9.46	122.14	74.00	48.14	Peak	No Limit
5	2483.5000	56.27	9.47	65.74	74.00	-8.26	Peak	
6	2483.5000	42.20	9.47	51.67	54.00	-2.33	AVG	
7	2484.8000	57.93	9.47	67.40	74.00	-6.60	Peak	
8	2484.8000	43.97	9.47	53.44	54.00	-0.56	AVG	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode 2437 MHz	Polarization	Vertical
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**100 dBuV/m**

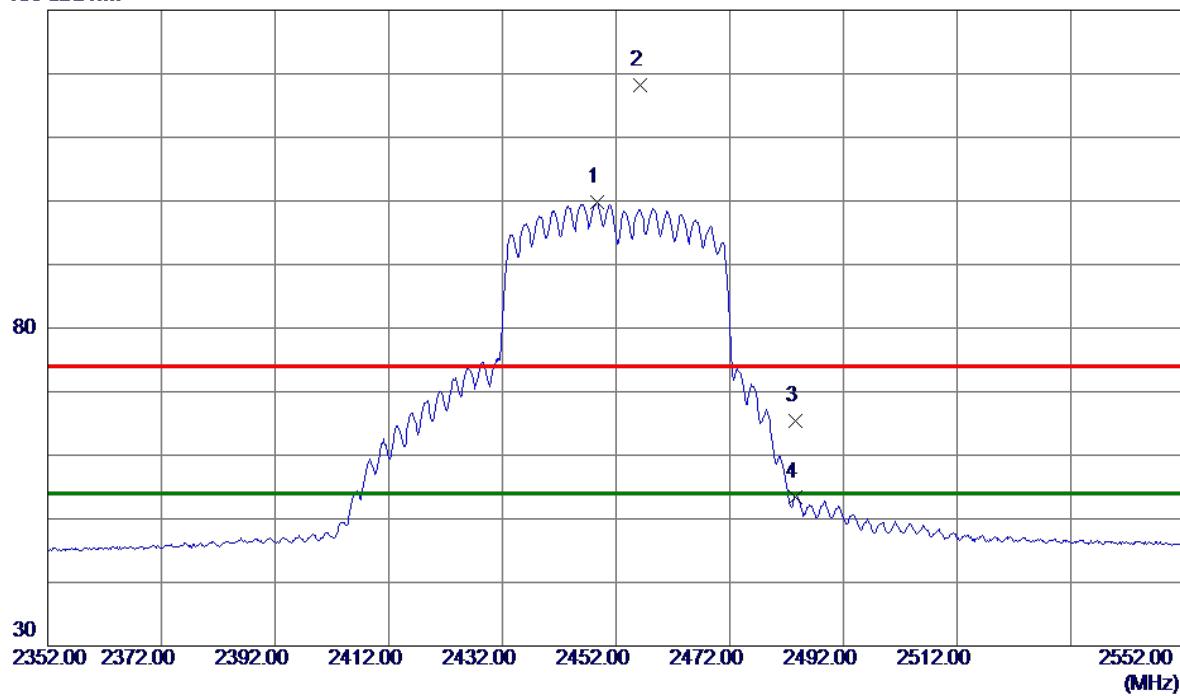
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	
							Detector	Comment
1	4856.6000	48.30	3.83	52.13	74.00	-21.87	Peak	
2 *	4867.6000	35.52	3.85	39.37	54.00	-14.63	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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130 dBuV/m

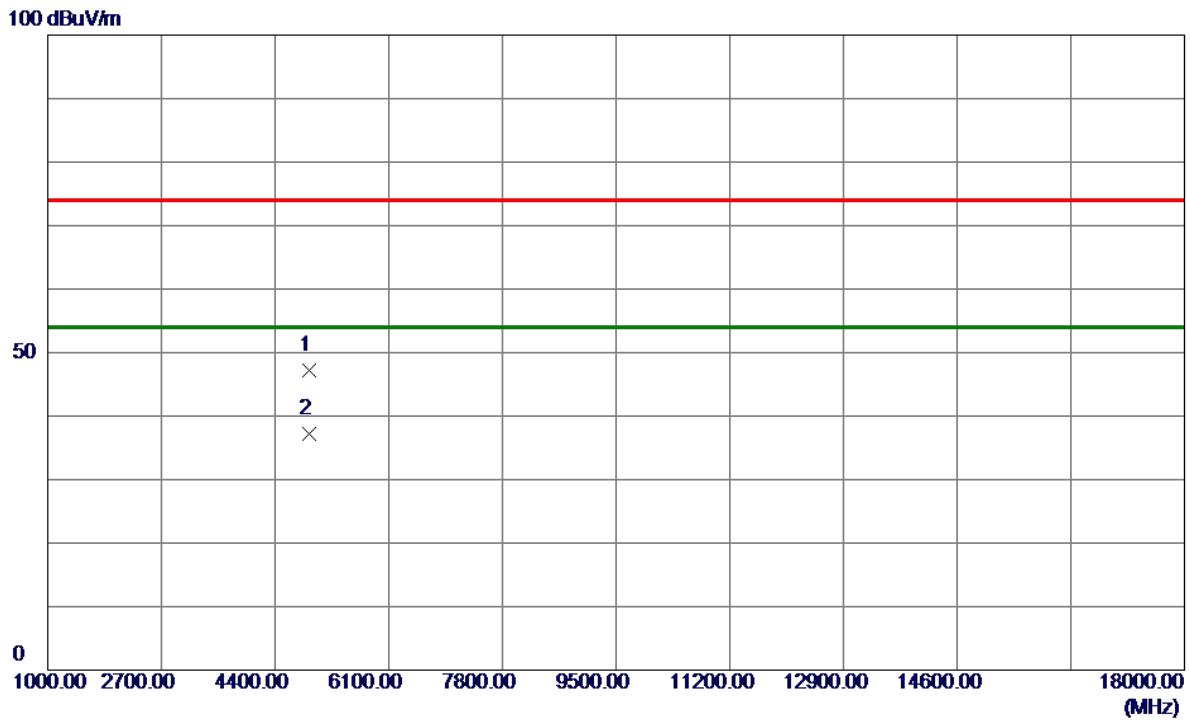


No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment	dBuV/m	dB		
1 *	2448.6000	90.42	9.46	99.88	54.00	45.88	AVG	No Limit
2	2456.2000	108.82	9.46	118.28	74.00	44.28	Peak	No Limit
3	2483.5000	55.93	9.47	65.40	74.00	-8.60	Peak	
4	2483.5000	43.98	9.47	53.45	54.00	-0.55	AVG	

## REMARKS:

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

Test Mode	TX AX(HE40) Mode 2452 MHz	Polarization	Vertical
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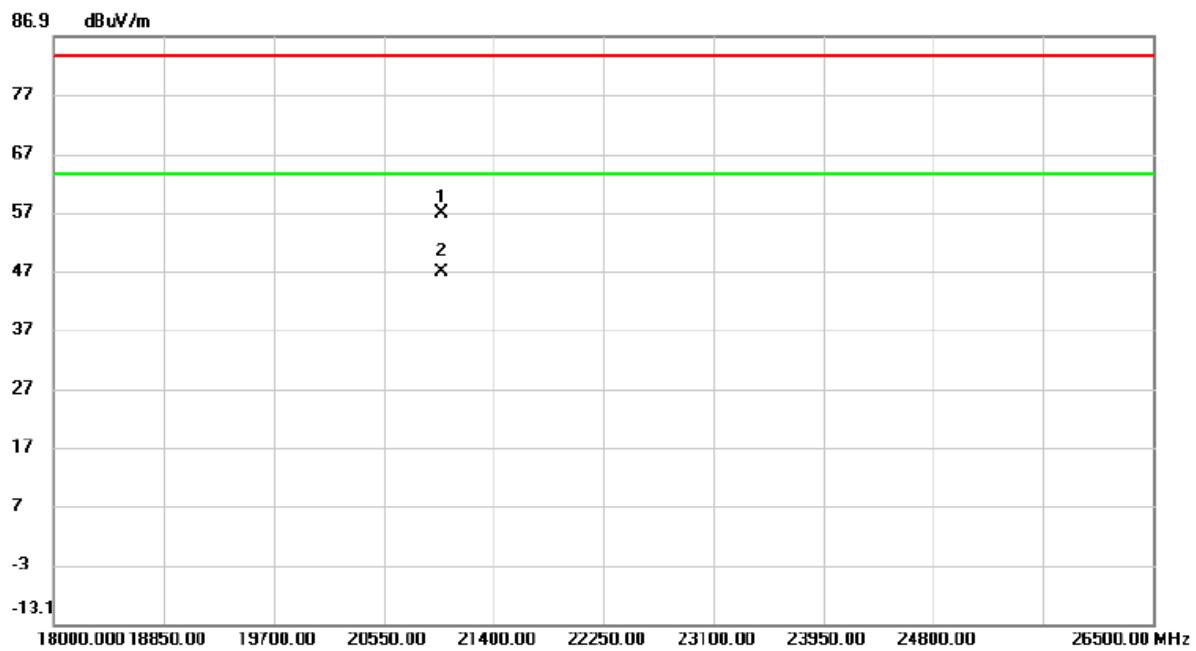


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	4904.7000	43.26	3.91	47.17	74.00	-26.83	Peak	
2 *	4914.0000	33.22	3.93	37.15	54.00	-16.85	AVG	

**REMARKS:**

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Vertical
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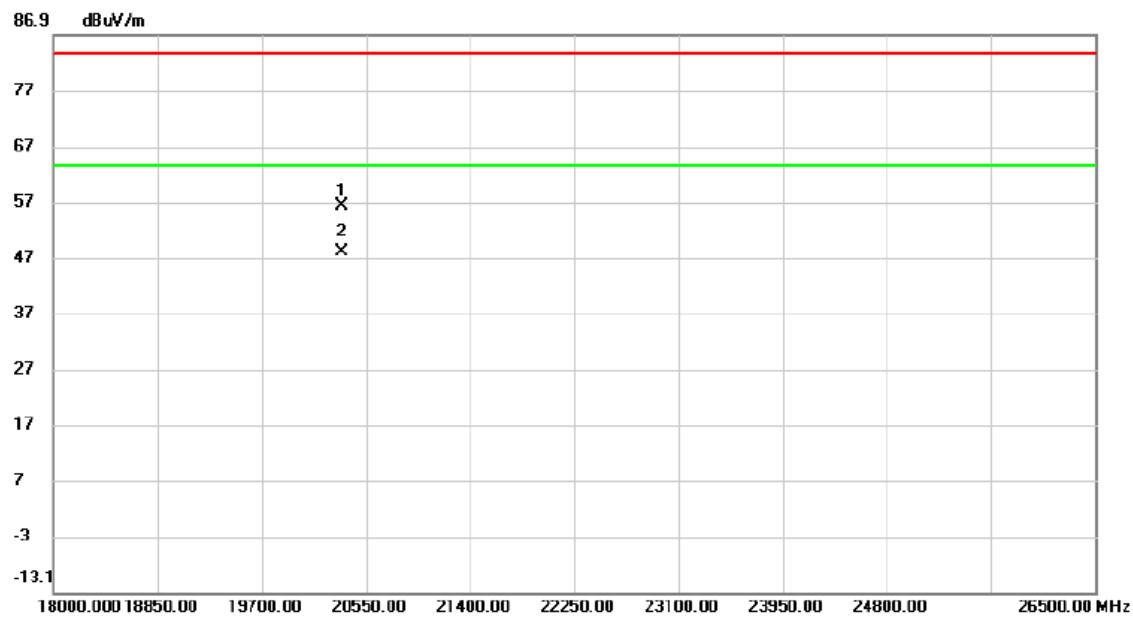


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		20996.25	46.75	10.02	56.77	83.50	-26.73	peak	
2	*	20996.25	36.65	10.02	46.67	63.50	-16.83	AVG	

## REMARKS:

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

Test Mode	TX AX(HE20) Mode 2437 MHz	Polarization	Horizontal
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		20350.25	46.17	10.19	56.36	83.50	-27.14	peak
2	*	20350.25	37.72	10.19	47.91	63.50	-15.59	AVG

**REMARKS:**

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

## APPENDIX E - BANDWIDTH

Test Mode TX B Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	7.120	12.720	0.5	Complies
06	2437	8.020	12.640	0.5	Complies
11	2462	7.550	12.800	0.5	Complies

CH01



Date: 22.JUL.2024 13:46:30

CH06  
6 dB Bandwidth

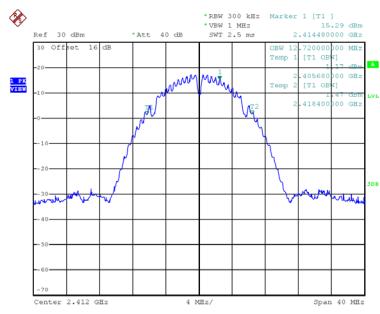
Date: 22.JUL.2024 13:50:06

CH11

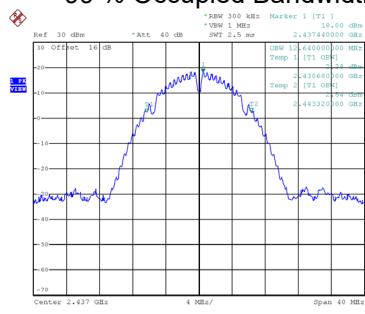


Date: 22.JUL.2024 13:53:34

99 % Occupied Bandwidth



Date: 22.JUL.2024 13:46:37



Date: 22.JUL.2024 13:50:13

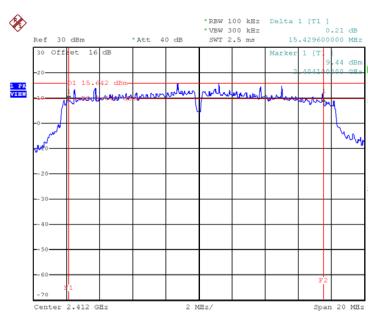


Date: 22.JUL.2024 13:53:41

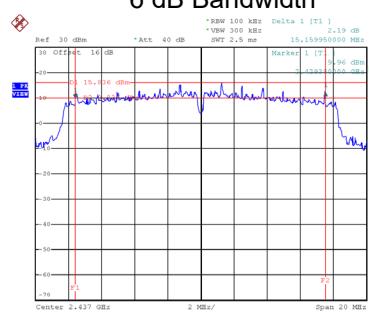
Test Mode	TX G Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.430	17.680	0.5	Complies
06	2437	15.160	17.520	0.5	Complies
11	2462	15.080	17.360	0.5	Complies

CH01

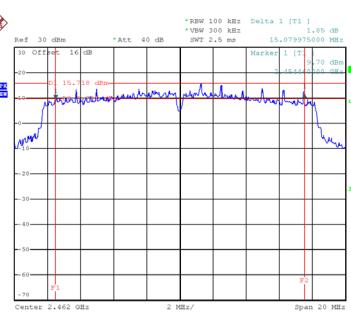


Date: 22.JUL.2024 13:56:55

CH06  
6 dB Bandwidth

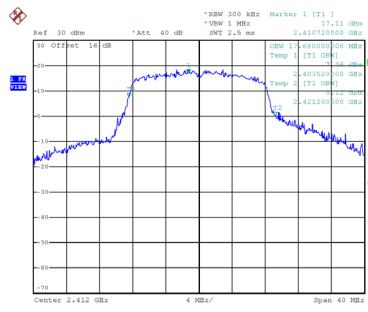
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CH11

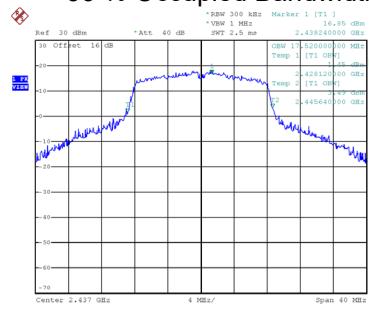


Date: 22.JUL.2024 14:06:21

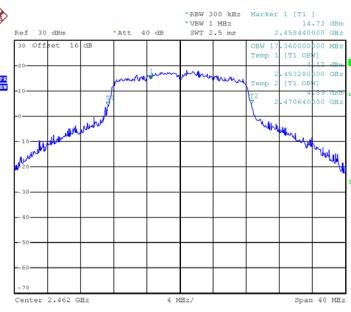
99 % Occupied Bandwidth



Date: 22.JUL.2024 13:57:02



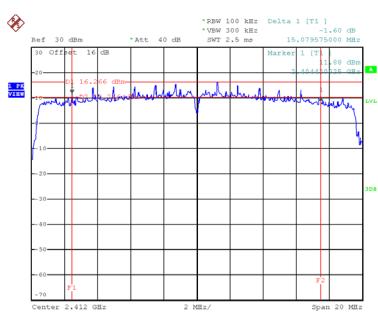
Date: 22.JUL.2024 14:04:03



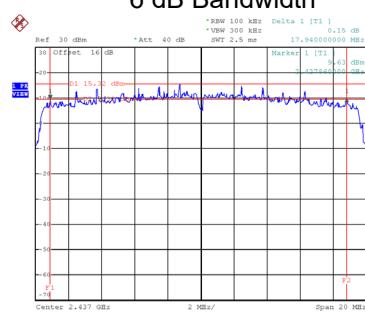
Date: 22.JUL.2024 14:06:28

Test Mode TX AX(HE20) Mode

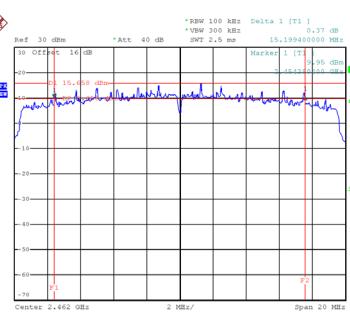
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
01	2412	15.080	19.040	0.5	Complies
06	2437	17.940	19.200	0.5	Complies
11	2462	15.199	19.120	0.5	Complies



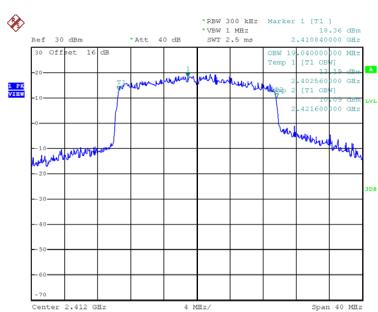
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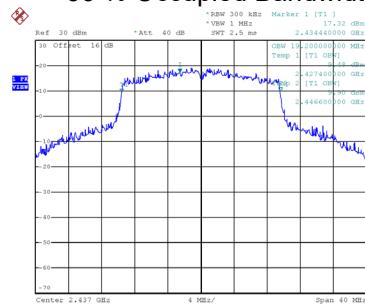
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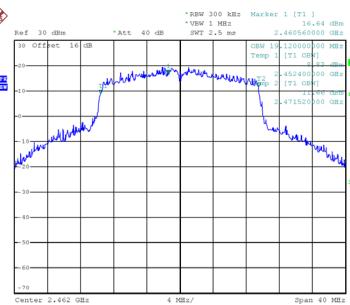
Date: 22.JUL.2024 14:34:30



Date: 22.JUL.2024 14:22:34



Date: 22.JUL.2024 14:24:57

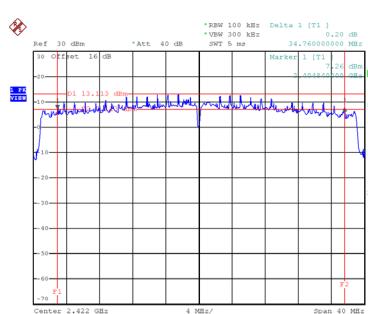


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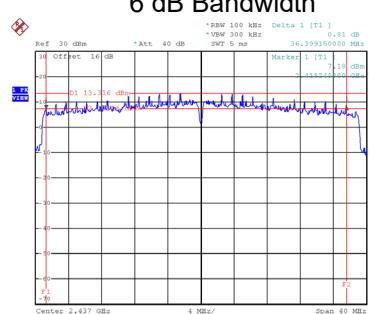
Test Mode TX AX(HE40) Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
03	2422	34.760	38.560	0.5	Complies
06	2437	36.399	39.040	0.5	Complies
09	2452	33.919	39.040	0.5	Complies

CH03

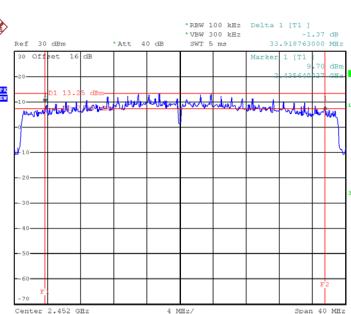


Date: 22.JUL.2024 14:36:28

CH06  
6 dB Bandwidth

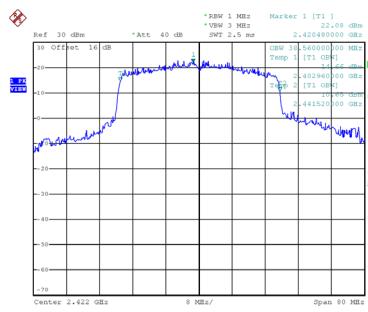
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CH09

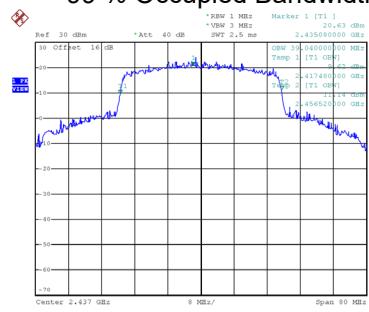


Date: 22.JUL.2024 14:42:18

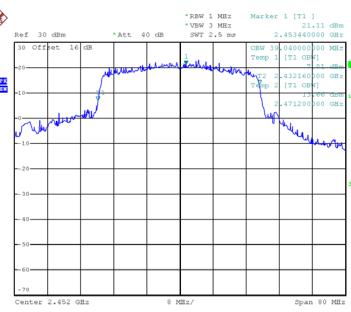
99 % Occupied Bandwidth



Date: 22.JUL.2024 14:36:35



Date: 22.JUL.2024 14:39:58



Date: 22.JUL.2024 14:42:25

## APPENDIX F - MAXIMUM OUTPUT POWER

## Test Mode TX B Mode\_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	23.41	0.00	23.41	29.44	0.8790	Complies
06	2437	25.66	0.00	25.66	29.44	0.8790	Complies
11	2462	23.74	0.00	23.74	29.44	0.8790	Complies

## Test Mode TX B Mode\_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.12	0.00	24.12	29.44	0.8790	Complies
06	2437	26.21	0.00	26.21	29.44	0.8790	Complies
11	2462	24.43	0.00	24.43	29.44	0.8790	Complies

## Test Mode TX B Mode\_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	26.79	29.44	0.8790	Complies
06	2437	28.95	29.44	0.8790	Complies
11	2462	27.11	29.44	0.8790	Complies

## Test Mode TX G Mode\_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.91	0.17	22.08	29.44	0.8790	Complies
06	2437	26.06	0.17	26.23	29.44	0.8790	Complies
11	2462	19.94	0.17	20.11	29.44	0.8790	Complies

## Test Mode TX G Mode\_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	21.22	0.17	21.39	29.44	0.8790	Complies
06	2437	25.93	0.17	26.10	29.44	0.8790	Complies
11	2462	19.85	0.17	20.02	29.44	0.8790	Complies

## Test Mode TX G Mode\_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.76	29.44	0.8790	Complies
06	2437	29.17	29.44	0.8790	Complies
11	2462	23.07	29.44	0.8790	Complies

Test Mode	TX AX(HE20) Mode_Ant. 1
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.56	0.76	21.32	29.44	0.8790	Complies
06	2437	25.61	0.76	26.37	29.44	0.8790	Complies
11	2462	19.77	0.76	20.53	29.44	0.8790	Complies

Test Mode	TX AX(HE20) Mode_Ant. 2
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	20.08	0.76	20.84	29.44	0.8790	Complies
06	2437	25.56	0.76	26.32	29.44	0.8790	Complies
11	2462	19.68	0.76	20.44	29.44	0.8790	Complies

Test Mode	TX AX(HE20) Mode_Total
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Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
01	2412	24.09	29.44	0.8790	Complies
06	2437	29.35	29.44	0.8790	Complies
11	2462	23.49	29.44	0.8790	Complies

## Test Mode TX AX(HE40) Mode\_Ant. 1

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.22	0.70	18.92	29.44	0.8790	Complies
06	2437	23.05	0.70	23.75	29.44	0.8790	Complies
09	2452	19.21	0.70	19.91	29.44	0.8790	Complies

## Test Mode TX AX(HE40) Mode\_Ant. 2

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	18.81	0.70	19.51	29.44	0.8790	Complies
06	2437	23.06	0.70	23.76	29.44	0.8790	Complies
09	2452	19.03	0.70	19.73	29.44	0.8790	Complies

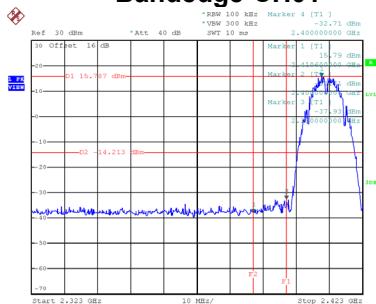
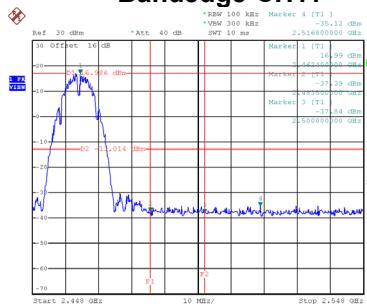
## Test Mode TX AX(HE40) Mode\_Total

Channel	Frequency (MHz)	Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
03	2422	22.23	29.44	0.8790	Complies
06	2437	26.76	29.44	0.8790	Complies
09	2452	22.83	29.44	0.8790	Complies

## APPENDIX G - CONDUCTED SPURIOUS EMISSIONS

Test Mode

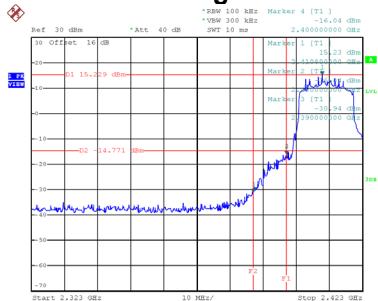
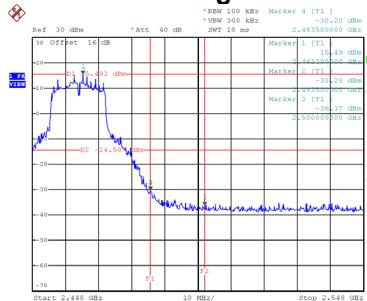
TX B Mode\_Ant. 1

**Bandedge-CH01****Bandedge-CH11**



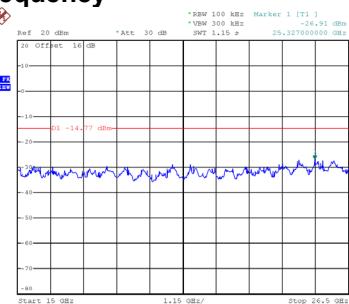
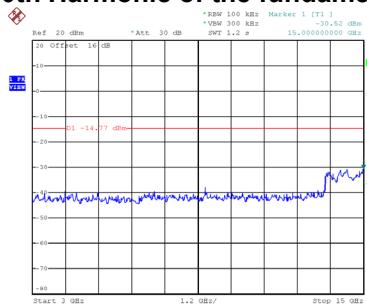
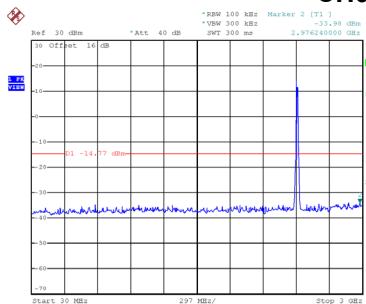
Test Mode

TX G Mode\_Ant. 1

**Bandedge-CH01****Bandedge-CH11**

Date: 22.JUL.2024 13:58:26

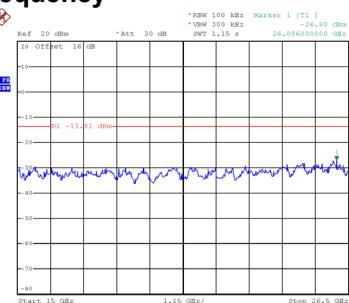
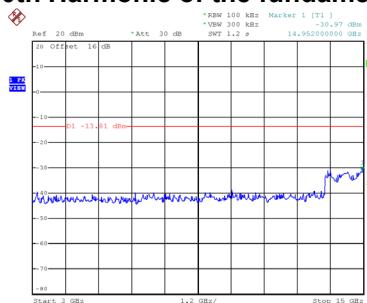
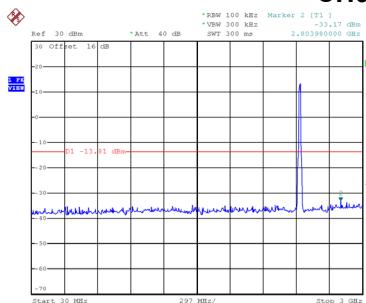
Date: 22.JUL.2024 14:06:35

**CH01 – 10th Harmonic of the fundamental frequency**

Date: 22.JUL.2024 14:01:45

Date: 22.JUL.2024 14:02:17

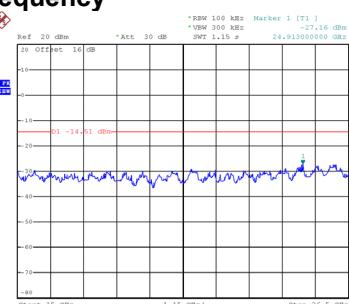
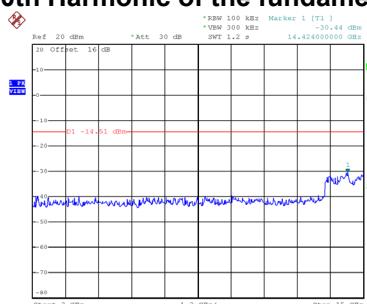
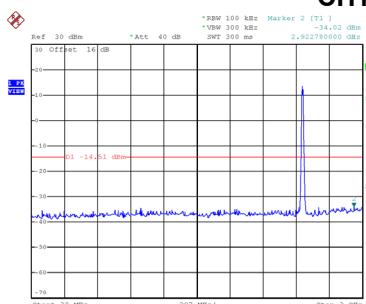
Date: 22.JUL.2024 14:02:24

**CH06 – 10th Harmonic of the fundamental frequency**

Date: 22.JUL.2024 14:04:23

Date: 22.JUL.2024 14:04:55

Date: 22.JUL.2024 14:05:03

**CH11 – 10th Harmonic of the fundamental frequency**

Date: 22.JUL.2024 14:06:48

Date: 22.JUL.2024 14:07:23

Date: 22.JUL.2024 14:07:30