

# RF MEASUREMENT REPORT


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**FCC ID:** DD4ULXD6X52

**Applicant:** Shure Incorporated

**Product:** Wireless Boundary Transmitter

**Model No.:** ULXD6/C X52, ULXD6/O X52  
ULXD6W/C X52, ULXD6W/O X52

**Brand Name:** 

**FCC Classification:** Part 15 Low Power Communication Device Transmitter (DXX)

**FCC Rule Part(s):** Part 15 Subpart C (Section 15.249)

**Result:** Complies

**Received Date:** 2024-07-05

**Test Date:** 2024-07-26 ~ 2024-08-08

**Reviewed By:**

\_\_\_\_\_  
Jame Yuan

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

**Revision History**

Report No.	Version	Description	Issue Date	Note
2407RSU017-U8	V01	Initial Report	2024-08-17	Valid

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## CONTENTS

Description	Page
<b>1. General Information .....</b>	<b>5</b>
1.1. Applicant .....	5
1.2. Manufacturer .....	5
1.3. Testing Facility .....	5
1.4. Product Information .....	6
1.5. Radio Specification .....	6
1.6. Working Frequencies .....	6
<b>2. Test Configuration .....</b>	<b>7</b>
2.1. Test Mode .....	7
2.2. Test Software .....	7
2.3. Applied Standards .....	7
2.4. Test Environment Condition .....	7
<b>3. Antenna Requirements .....</b>	<b>8</b>
<b>4. Measuring Instrument .....</b>	<b>9</b>
<b>5. Measurement Uncertainty .....</b>	<b>10</b>
<b>6. Test Result .....</b>	<b>11</b>
6.1. Summary .....	11
6.2. AC Conducted Emissions Measurement .....	12
6.2.1. Test Limit .....	12
6.2.2. Test Setup .....	12
6.2.3. Test Result .....	12
6.3. Fundamental & Radiated Spurious Emission Measurement .....	13
6.3.1. Test Limit .....	13
6.3.2. Test Procedure .....	14
6.3.3. Test Setting .....	14
6.3.4. Test Setup .....	16
6.3.5. Test Result .....	17
6.4. Radiated Restricted Band Edge Measurement .....	18
6.4.1. Test Limit .....	18
6.4.2. Test Procedure .....	18
6.4.3. Test Setting .....	18
6.4.4. Test Setup .....	19
6.4.5. Test Result .....	19
6.5. 20dB Bandwidth Measurement .....	20
6.5.1. Test Limit .....	20
6.5.2. Test Procedure .....	20
6.5.3. Test Setting .....	20

6.5.4. Test Setup .....	20
6.5.5. Test Result .....	20
<b>Appendix A - Test Result.....</b>	<b>21</b>
A.1 Fundamental & Radiated Emission Test Result.....	21
A.2 Radiated Restricted Band Edge Test Result.....	23
A.3 20dB Bandwidth Test Result .....	27
<b>Appendix B - Test Setup Photograph .....</b>	<b>28</b>
<b>Appendix C - EUT Photograph .....</b>	<b>29</b>

## 1. General Information

### 1.1. Applicant

Shure Incorporated  
 5800 West Touhy Avenue, Niles, IL 60714-4608, USA

### 1.2. Manufacturer

Shure Incorporated  
 5800 West Touhy Avenue, Niles, IL 60714-4608, USA

### 1.3. Testing Facility

<input checked="" type="checkbox"/>	<b>Test Site – MRT Suzhou Laboratory</b>
	<b>Laboratory Location (Suzhou - Wuzhong)</b> D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	<b>Laboratory Location (Suzhou - SIP)</b> 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	<b>Laboratory Location (Suzhou - Wujiang)</b> Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China
	<b>Laboratory Accreditations</b>
	A2LA: 3628.01 <span style="margin-left: 200px;">CNAS: L10551</span> FCC: CN1166 <span style="margin-left: 200px;">ISED: CN0001</span> VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <span style="margin-left: 100px;"><input type="checkbox"/>R-20141 <input type="checkbox"/>G-20134 <input type="checkbox"/>C-20103 <input type="checkbox"/>T-20104</span>
<input type="checkbox"/>	<b>Test Site – MRT Shenzhen Laboratory</b>
	<b>Laboratory Location (Shenzhen)</b> 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	<b>Laboratory Accreditations</b>
	A2LA: 3628.02 <span style="margin-left: 200px;">CNAS: L10551</span> FCC: CN1284 <span style="margin-left: 200px;">ISED: CN0105</span>
<input type="checkbox"/>	<b>Test Site – MRT Taiwan Laboratory</b>
	<b>Laboratory Location (Taiwan)</b> No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	<b>Laboratory Accreditations</b>
	TAF: 3261 FCC: 291082, TW3261 <span style="margin-left: 200px;">ISED: TW3261</span>

#### 1.4. Product Information

Product Name	Wireless Boundary Transmitter
Model No.	ULXD6/C X52, ULXD6/O X52, ULXD6W/C X52, ULXD6W/O X52
Serial No.	328Y33527
Frequency Range	902 ~ 928 MHz
Power Type	By battery
Operating Temperature	-10 ~ 45°C
<p>Note 1: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.</p> <p>Note 2: The difference between ULXD6/C and ULXD6/O is that the EUT has different built-in MIC. And ULXD6 enclose color is black and ULXD6W enclose color is white.</p> <p>Note 3: The EUT has two working modes (STD Mode &amp; HD Mode) and two modes can be switched from the digital wireless receiver.</p>	

#### 1.5. Radio Specification

HD Mode	
Frequency Range	902 ~ 928 MHz
Declared Power Level	0.25mW
Type of Modulation	8PSK
Channel Spacing	25kHz
Antenna Type	PIFA
Antenna Gain	0.97 dBi

#### 1.6. Working Frequencies

Bottom Channel (MHz)	Middle Channel (MHz)	Top Channel (MHz)
902.400	915.000	927.600

## 2. Test Configuration

### 2.1. Test Mode

Mode 1: Transmit at X52 Band by HD Mode (0.25mW)
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### 2.2. Test Software

The test utility software used during testing was “teraterm”, and the version was V4.103, all test commands were provided by the manufacturer.

### 2.3. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.249
- ANSI C63.10-2013

### 2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

### 3. Antenna Requirements

**Excerpt from §15.203 of the FCC Rules/Regulations:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

**Conclusion:**

This unit complies with the requirement of §15.203.



#### 4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
dSignal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2024-08-09	WZ-AC1
Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2024-11-09	WZ-AC1
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2025-05-15	WZ-AC1
Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2025-04-19	WZ-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2024-10-23	WZ-AC1
Thermohygrometer	testo	608-H1	MRTSUE11039	1 year	2024-10-25	WZ-AC1

Software	Version	Function
e3	19910a	RE & CE
Controller_MF 7802	2.03C	RE Antenna & Turntable

## 5. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

Radiated Emission Measurement	
The maximum measurement uncertainty is evaluated as:	
Coaxial:	9kHz~30MHz: 2.61dB
Coplanar:	9kHz~30MHz: 2.62dB
Horizontal:	30MHz~200MHz: 3.79dB
	200MHz~1GHz: 3.91dB
	1GHz~40GHz: 4.99dB
Vertical:	30MHz~200MHz: 4.06dB
	200MHz~1GHz: 5.21dB
	1GHz~40GHz: 4.90dB
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ):	
2.7%	

## 6. Test Result

### 6.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	N/A
15.209 15.249	General Field Strength Limits (Fundamental and Radiated Emission Limits)	Radiated	Pass
15.215(c)	20dB Bandwidth	Conducted	Pass

**Notes:**

1. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2. "N/A" means that this item is not applicable, and the detail information refer to relevant section.

## 6.2. AC Conducted Emissions Measurement

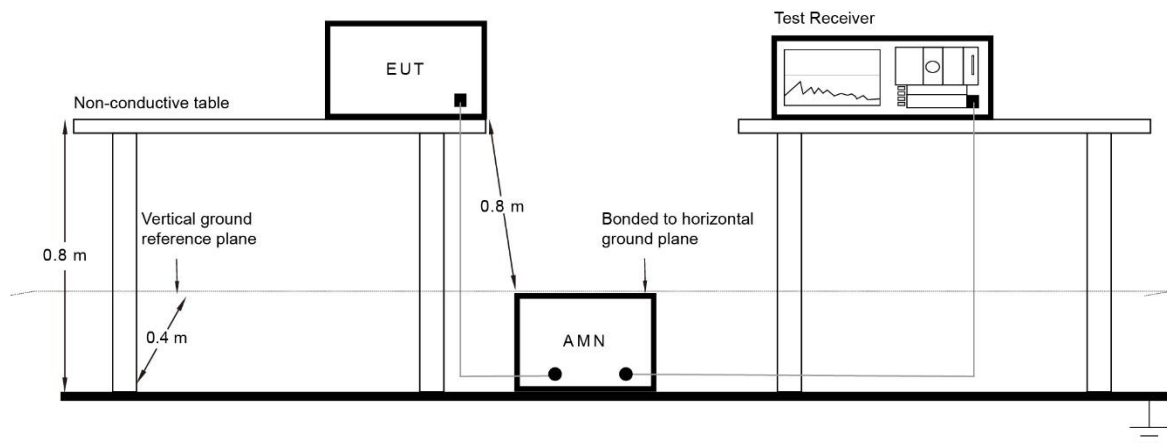
### 6.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 6.2.2. Test Setup



### 6.2.3. Test Result

The EUT is powered by battery, so this item is not applicable.

### 6.3. Fundamental & Radiated Spurious Emission Measurement

#### 6.3.1. Test Limit

The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits shown in Table per Section 15.249.

FCC Part 15 Subpart C Paragraph 15.249		
Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics ( $\mu$ V/m)
902 ~ 928	50	500
2400 ~ 2483.5	50	500
5725 ~ 5875	50	500
24000 ~ 24250	250	2500

All out of band emissions must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field Strength ( $\mu$ V/m)	Measurement Distance (m)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### **6.3.2. Test Procedure**

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10-2013 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

### **6.3.3. Test Setting**

#### **Measurement of harmonic and spurious emissions below 40 GHz**

##### **Peak Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 x RBW
4. Detector = Peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

Frequency	RBW
9 ~ 150 kHz	200 Hz
0.15 ~ 30 MHz	9 kHz
30 ~ 1000 MHz	120 kHz
> 1000 MHz	1 MHz

**Quasi-Peak Measurements below 1GHz**

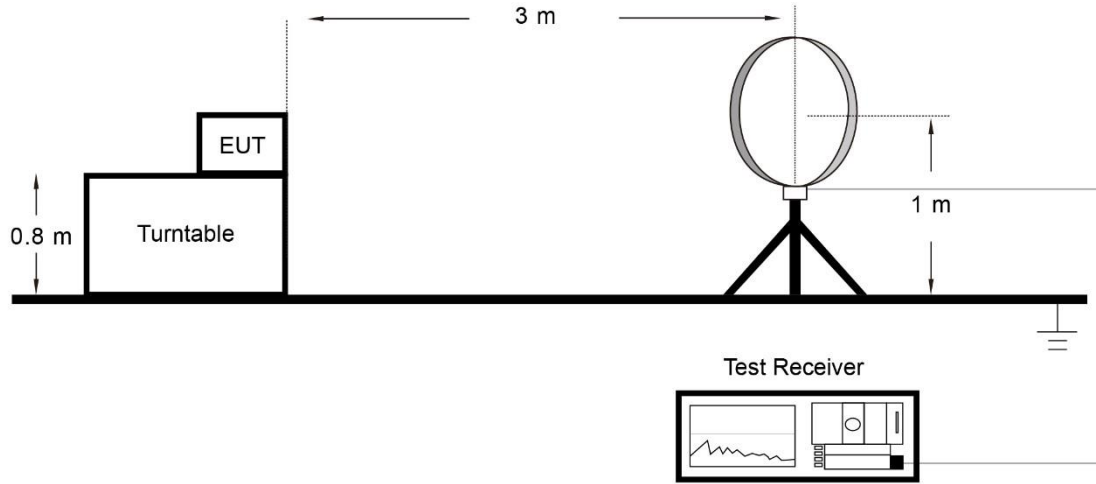
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Average Field Strength Measurements**

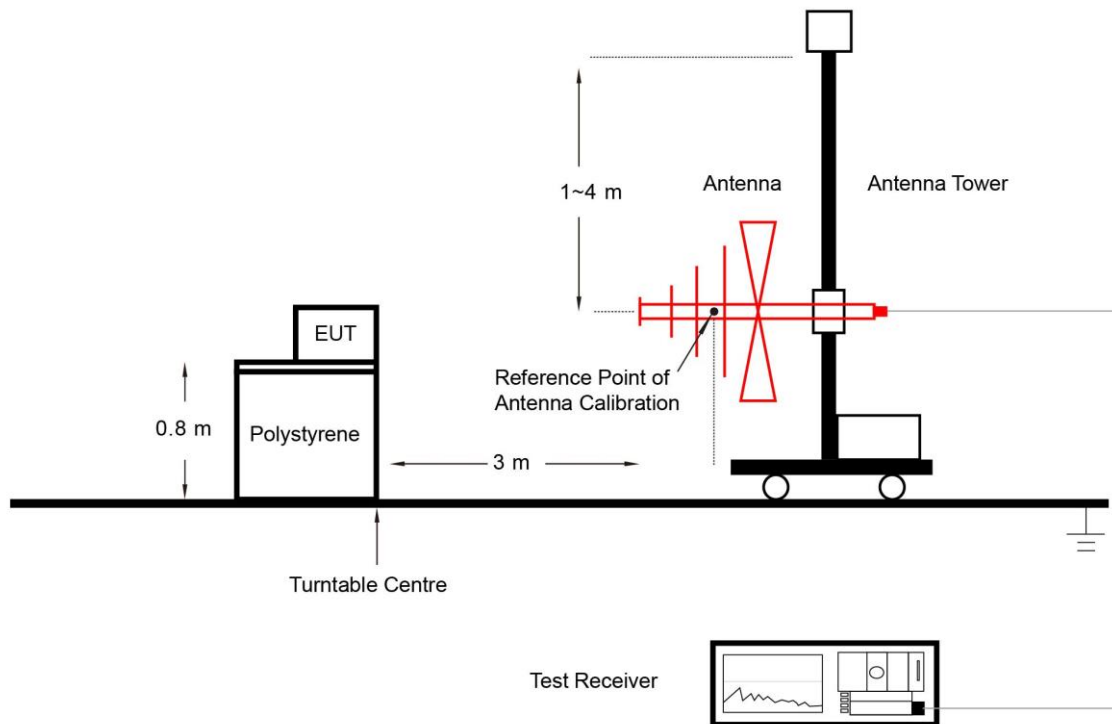
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. Set the VBW  $\geq 3 \times$  RBW
4. Detector function = Average
5. Sweep time  $\geq$  (number of points in sweep)  $\times$  (transmission symbol period)
6. Trace mode = Max Hold
7. Allow max hold to run for suitable traces until the trace tend to stabilize.

### 6.3.4. Test Setup

Below 30MHz Test Setup:

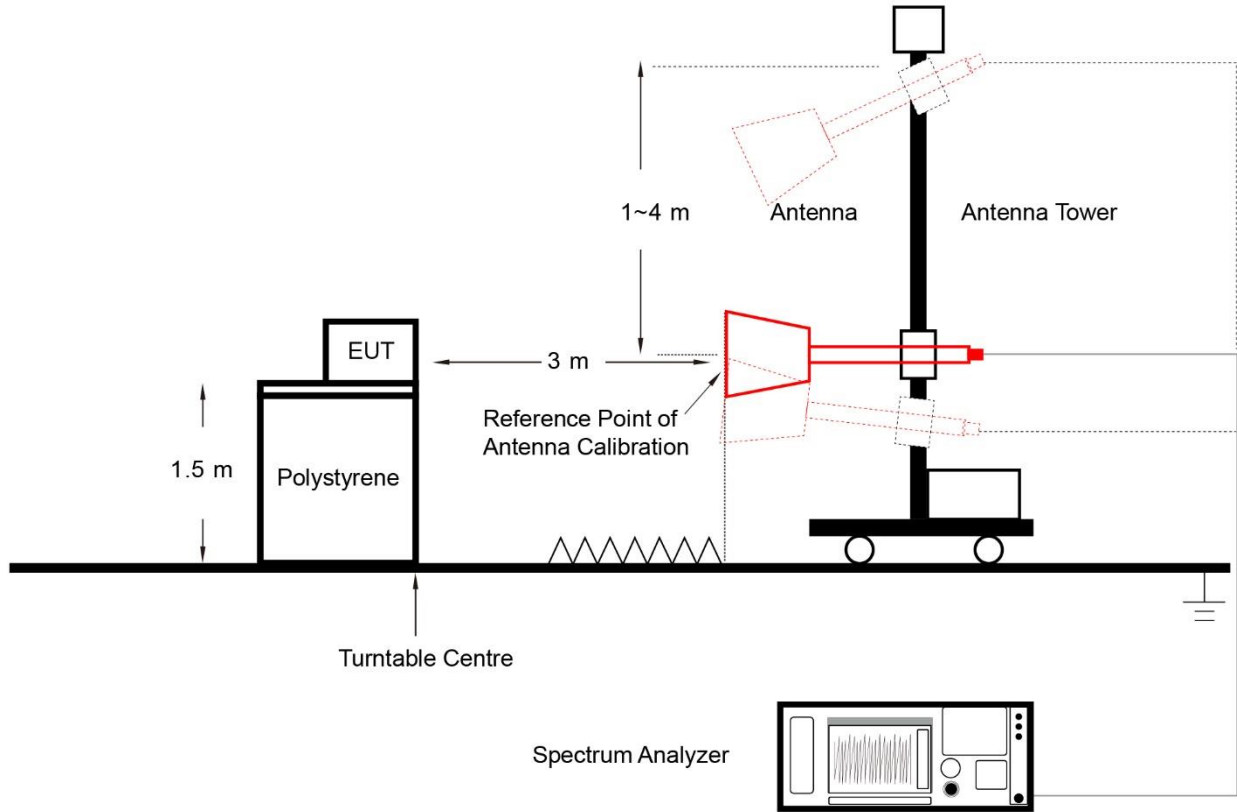


Below 1GHz Test Setup:





1GHz ~ 40GHz Test Setup:



**6.3.5. Test Result**

Refer to Appendix A.1.

## 6.4. Radiated Restricted Band Edge Measurement

### 6.4.1. Test Limit

All out of band emissions must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [ $\mu\text{V}/\text{m}$ ]	Measured Distance [Meter]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

### 6.4.2. Test Procedure

ANSI C63.10-2013 Section 6.3 (General Requirements)

ANSI C63.10-2013 Section 6.6 (Standard test method above 1GHz)

ANSI C63.10-2013 Section 6.10 (Band-edge testing)

### 6.4.3. Test Setting

#### Peak Field Strength Measurements

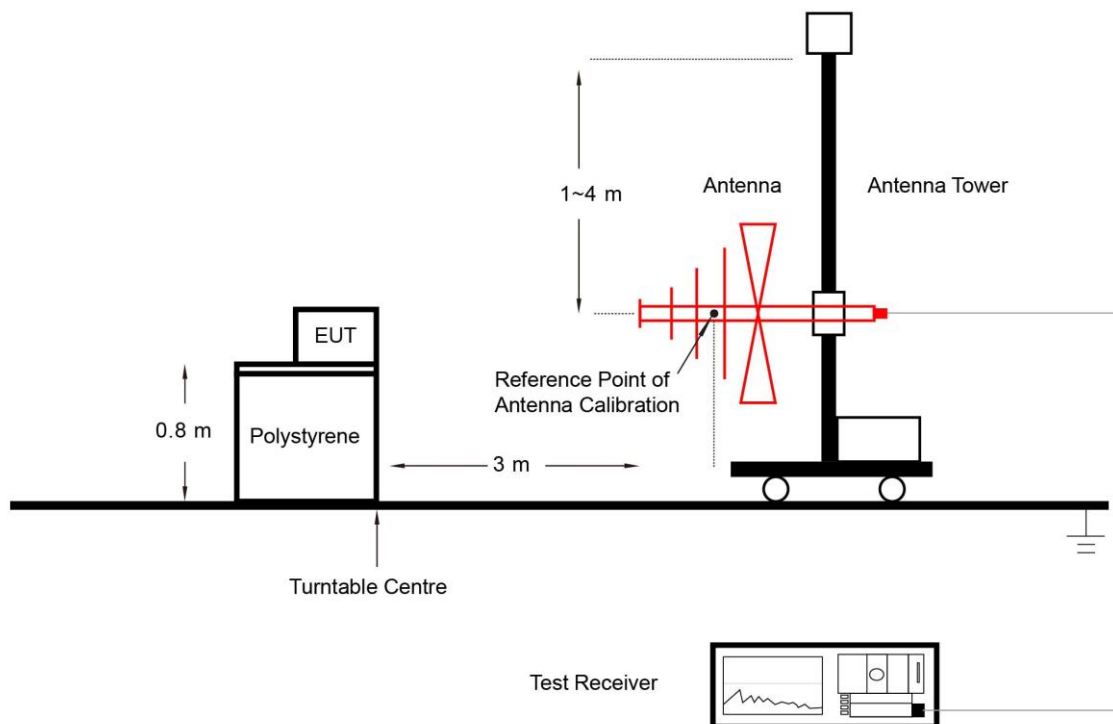
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz

4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### **Quasi-Peak Measurements below 1GHz**

7. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
8. Span was set greater than 1MHz
9. RBW = as specified in Table 1
10. Detector = CISPR quasi-peak
11. Sweep time = auto couple
12. Trace was allowed to stabilize

#### **6.4.4. Test Setup**



#### **6.4.5. Test Result**

Refer to Appendix A.2.

## 6.5. 20dB Bandwidth Measurement

### 6.5.1. Test Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission in the specific band.

### 6.5.2. Test Procedure

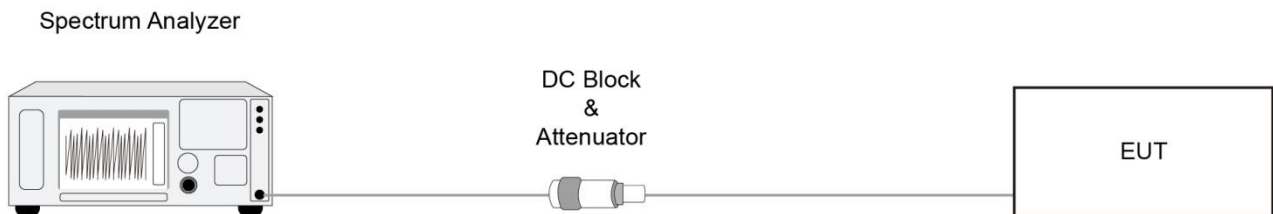
ANSI C63.10-2013 Clause 6.9.2

### 6.5.3. Test Setting

#### 20dB Bandwidth

1. The analyzers' automatic bandwidth measurement capability was used to perform the 20dB bandwidth
2. Spectrum analyzer frequency is set to the nominal EUT channel center frequency.
3. The frequency span for the spectrum analyzer shall be between 2.0 times and 5.0 times the OBW
4. Set RBW = 1% ~ 5% of the OBW
5. VBW  $\geq 3 \times$  RBW
6. Detector = Peak
7. Trace mode = max hold
8. Sweep = auto couple
9. Allow the trace to stabilize
10. Measure the maximum width of the emission that is 20 dB down from the maximum of the emission.

### 6.5.4. Test Setup



### 6.5.5. Test Result

Refer to Appendix A.3.

## Appendix A - Test Result

### A.1 Fundamental & Radiated Emission Test Result

Test Site	WZ-AC1	Test Date	2024-08-08
Test Engineer	Frank Xue	Test Mode	Mode 1

Frequency Band (MHz)	Reading Level (dB $\mu$ V)	Factor (dB/m)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Result
Fundamental Radiated Emission (Horizontal)							
902.4	61.36	29.85	91.21	114.00	-22.79	Peak	Pass
915	61.25	30.25	91.50	114.00	-22.50	Peak	Pass
927.6	59.75	30.61	90.36	114.00	-23.64	Peak	Pass
Fundamental Radiated Emission (Vertical)							
902.4	56.16	29.85	86.01	114.00	-27.99	Peak	Pass
915	53.66	30.25	83.91	114.00	-30.09	Peak	Pass
927.6	52.64	30.61	83.25	114.00	-30.75	Peak	Pass
Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)							

Test Site	WZ-AC1	Test Engineer	Frank Xue
Test Date	2024-07-26	Test Mode	Mode 1
Remark	Average measurement was not performed if peak level lower than average limit.		

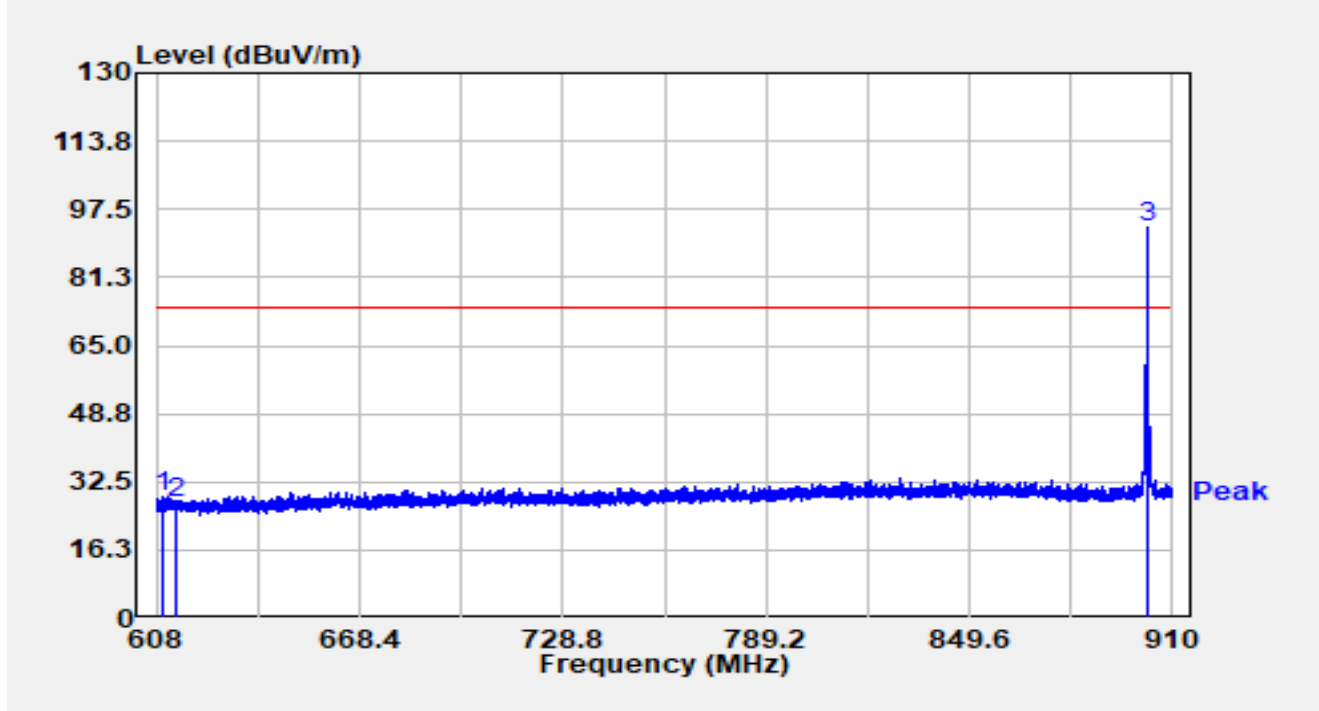
Test Freq. (MHz)	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB/m)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
Between 1GHz ~ 18GHz								
902.4	7378.400	37.8	9.0	46.8	74.0	-27.2	Peak	Horizontal
	8253.900	37.6	9.9	47.5	74.0	-26.5	Peak	Horizontal
	11006.200	35.6	14.6	50.2	74.0	-23.8	Peak	Horizontal
	7446.400	37.9	9.0	46.9	74.0	-27.1	Peak	Vertical
	8272.600	37.4	9.9	47.3	74.0	-26.7	Peak	Vertical
	10783.500	37.0	14.5	51.5	74.0	-22.5	Peak	Vertical
915	7713.300	38.2	9.3	47.5	74.0	-26.5	Peak	Horizontal
	8235.200	38.2	9.8	48.0	74.0	-26.0	Peak	Horizontal
	12072.100	37.3	13.4	50.7	74.0	-23.3	Peak	Horizontal
	7507.600	37.3	9.2	46.5	74.0	-27.5	Peak	Vertical
	8364.400	38.6	9.8	48.4	74.0	-25.6	Peak	Vertical
	10829.400	36.6	14.3	50.9	74.0	-23.1	Peak	Vertical
927.6	7638.500	37.3	9.4	46.7	74.0	-27.3	Peak	Horizontal
	8148.500	37.5	10.0	47.5	74.0	-26.5	Peak	Horizontal
	10829.400	36.5	14.3	50.8	74.0	-23.2	Peak	Horizontal
	7420.900	38.9	9.2	48.1	74.0	-25.9	Peak	Vertical
	8167.200	36.8	10.1	46.9	74.0	-27.1	Peak	Vertical
	10827.700	36.3	14.3	50.6	74.0	-23.4	Peak	Vertical

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

**A.2 Radiated Restricted Band Edge Test Result**

Site	WZ-AC1	Test Date	2024-07-26
Test Engineer	Frank Xue	Temp./Humidity	24.5°C/55.4%
Factor	VULB 9168_25-1000MHz	Polarity	Horizontal
EUT	ULXD6	Test Voltage	By Battery
Test Mode	Transmit by X52 HD at 902.4MHz		

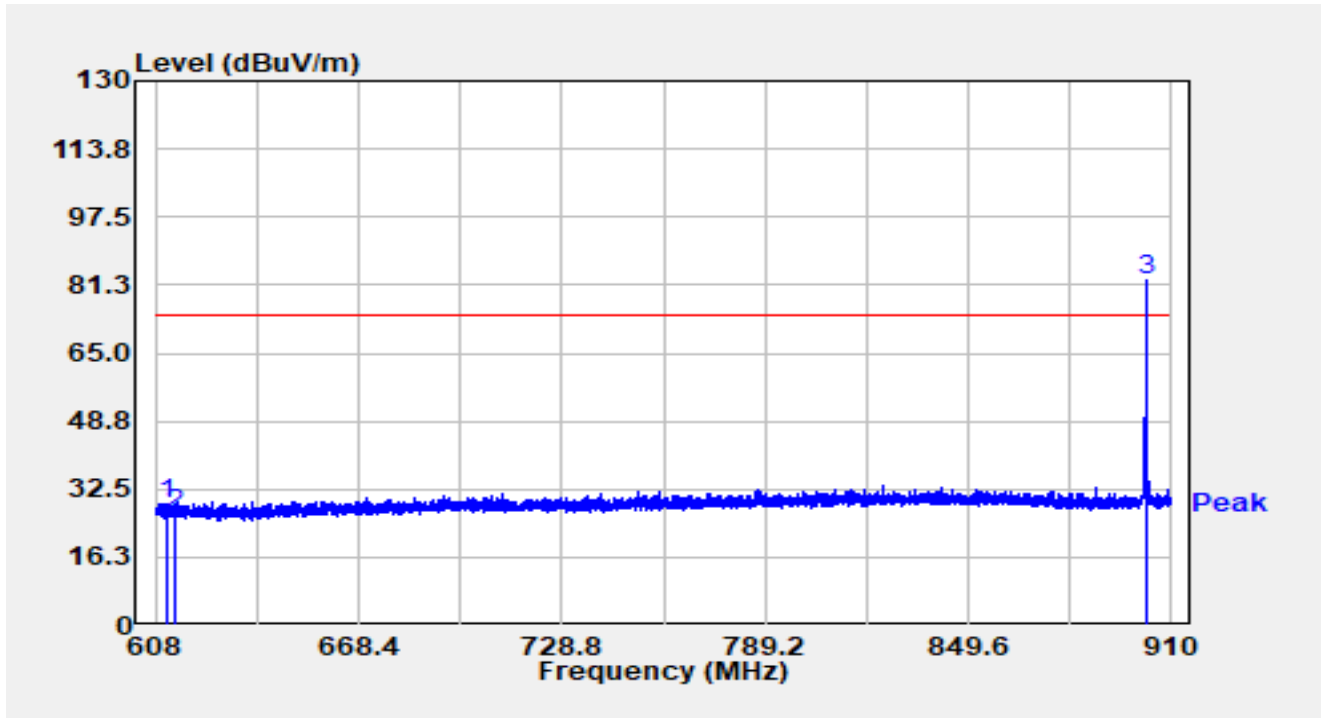


No	Mark	Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB/m)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V/m)	Detector
1	*	609.631	2.57	26.50	29.06	-44.94	74.00	Peak
2		614.000	0.87	26.49	27.36	-46.64	74.00	Peak
3		902.420	63.29	29.85	93.14	N/A	N/A	Peak

Notes:

1. "\*" , means this data is the worst emission level.
2. C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
3. Measurement(dB $\mu$ V/m) = Reading(dB $\mu$ V) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-07-26
Test Engineer	Frank Xue	Temp./Humidity	24.5°C/55.4%
Factor	VULB 9168_25-1000MHz	Polarity	Vertical
EUT	ULXD6	Test Voltage	By Battery
Test Mode	Transmit by X52 HD at 902.4MHz		



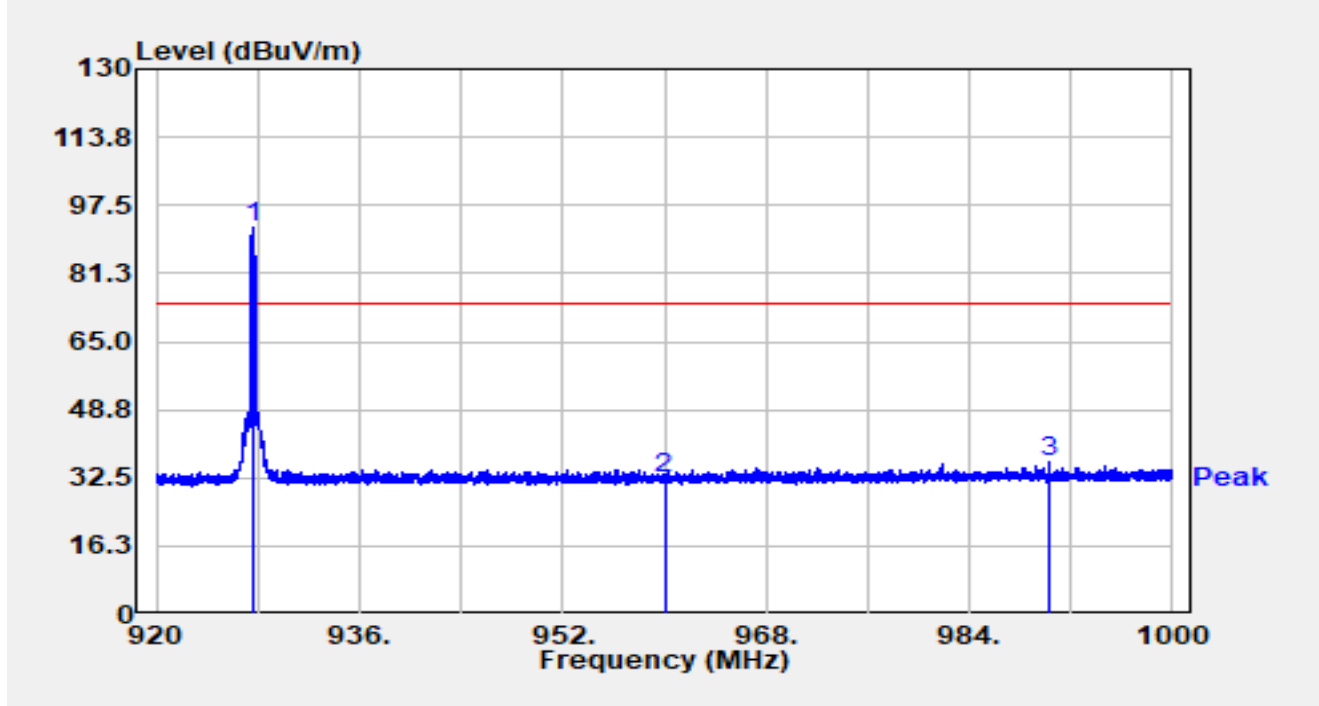
No	Mark	Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB/m)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V/m)	Detector
1	*	611.684	2.53	26.53	29.06	-44.94	74.00	Peak
2		614.000	0.06	26.49	26.55	-47.45	74.00	Peak
3		902.450	52.67	29.85	82.53	N/A	N/A	Peak

## Notes:

- "\*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement(dB $\mu$ V/m) = Reading(dB $\mu$ V) + C.F (dB/m).



Site	WZ-AC1	Test Date	2024-07-26
Test Engineer	Frank Xue	Temp./Humidity	24.5°C/55.4%
Factor	VULB 9168_25-1000MHz	Polarity	Horizontal
EUT	ULXD6	Test Voltage	By Battery
Test Mode	Transmit by X52 HD at 927.6MHz		

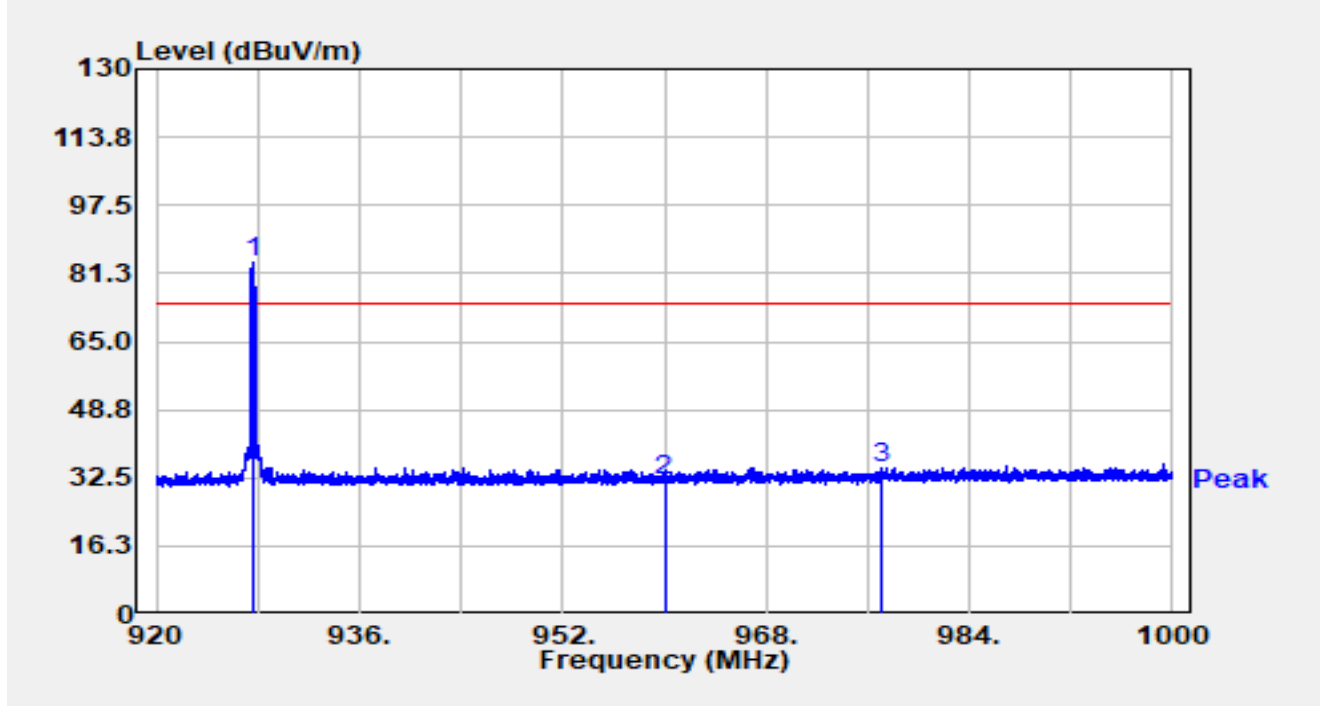


No	Mark	Frequency (MHz)	Reading (dB $\mu$ V)	C.F (dB/m)	Measurement (dB $\mu$ V/m)	Margin (dB)	Limit (dB $\mu$ V/m)	Detector
1		927.592	61.63	30.61	92.24	N/A	N/A	Peak
2		960.000	1.57	30.82	32.38	-41.62	74.00	Peak
3	*	990.360	5.24	31.24	36.48	-37.52	74.00	Peak

**Notes:**

- "\*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement(dB $\mu$ V/m) = Reading(dB $\mu$ V) + C.F (dB/m).

Site	WZ-AC1	Test Date	2024-07-26
Test Engineer	Frank Xue	Temp./Humidity	24.5°C/55.4%
Factor	VULB 9168_25-1000MHz	Polarity	Vertical
EUT	ULXD6	Test Voltage	By Battery
Test Mode	Transmit by X52 HD at 927.6MHz		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		927.552	53.28	30.61	83.89	N/A	N/A	Peak
2		960.000	1.19	30.82	32.01	-41.99	74.00	Peak
3	*	977.032	3.87	31.15	35.02	-38.98	74.00	Peak

## Notes:

- "\*", means this data is the worst emission level.
- C.F (dB/m) = Antenna Factor (dB/m)+ Cable Loss (dB).
- Measurement(dBμV/m) = Reading(dBμV) + C.F (dB/m).

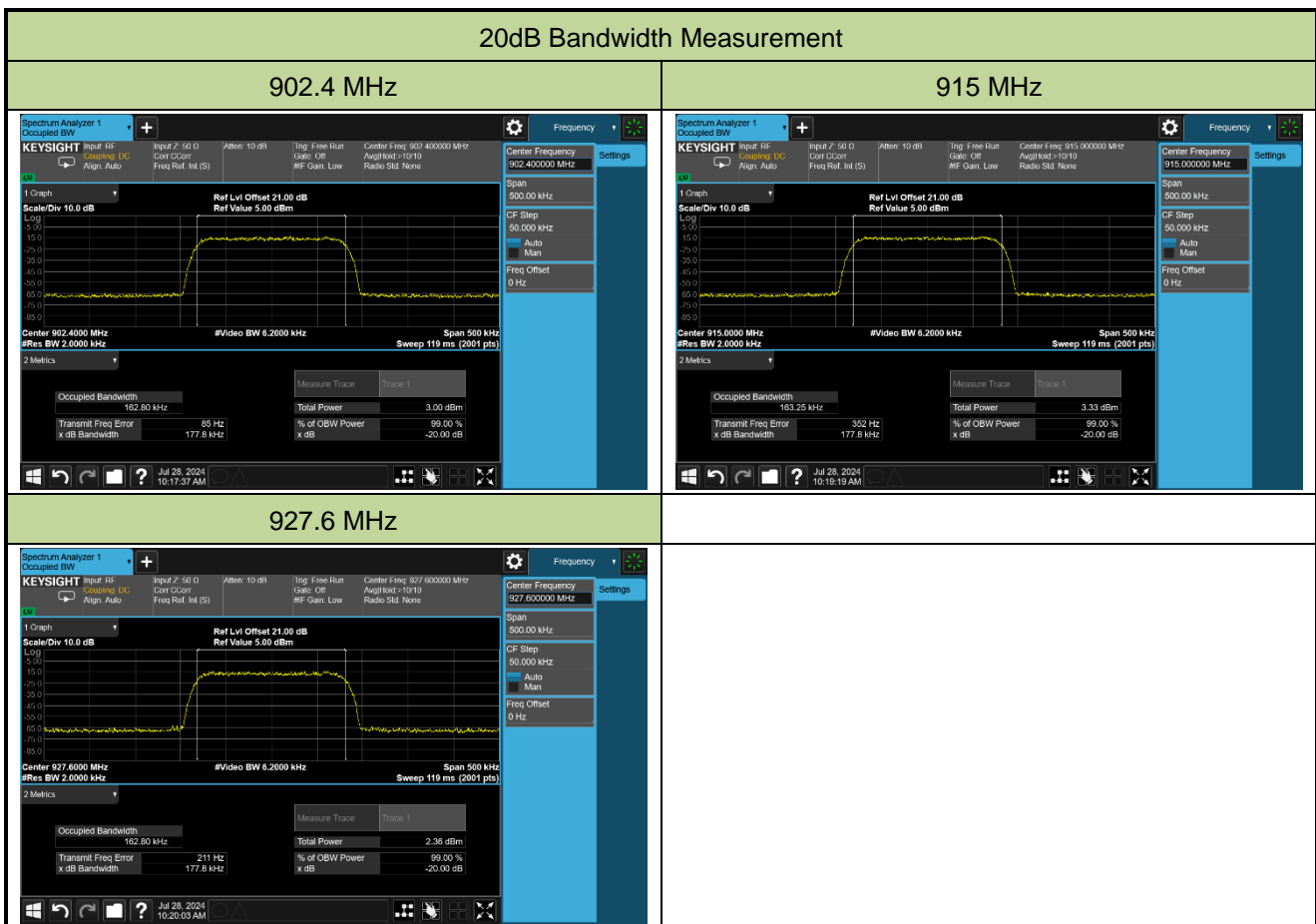
### A.3 20dB Bandwidth Test Result

Test Site	WZ-SR5	Test Date	2024-07-28
Test Engineer	Lynn Yang	Test Mode	Mode 1

Test Frequency (MHz)	20dB Bandwidth (MHz)	F <sub>L</sub> (MHz)	F <sub>L</sub> Limit (MHz)	F <sub>H</sub> (MHz)	F <sub>H</sub> Limit (MHz)	Result
902.4	0.1778	902.3111	≥ 902	902.4889	≤ 928	Pass
915.0	0.1778	914.9111	≥ 902	915.0889	≤ 928	Pass
927.6	0.1778	927.5111	≥ 902	927.6889	≤ 928	Pass

Note 1:  $F_L$  (MHz) = Test Frequency - 20dB Bandwidth (MHz) / 2;

Note 2:  $F_H$  (MHz) = Test Frequency + 20dB Bandwidth (MHz) / 2.



## **Appendix B - Test Setup Photograph**

Refer to “ 2407RSU017-UT” file.

## **Appendix C - EUT Photograph**

Refer to "2407RSU017-UE" file.