RF MEASUREMENT REPORT

FCC ID:	DD4ADX1K54S
Applicant:	Shure Incorporated
Product:	Bodypack Transmitter
Model No.:	ADX1 K54, ADX1LEMO3 K54
Brand Name:	SHURE, SHURE
FCC Classification:	Part 15 Wireless Microphone (DWM)
FCC Rule Part(s):	Part 15 Subpart C (Section 15.236)
Result:	Complies
Received Date:	2024-07-18
Test Date:	2024-08-02 ~ 2024-08-15

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

Revision History

Report No.	Version	Description	Issue Date	Note
2407RSU039-U4	V01	Initial Report	2024-08-28	Valid

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Description Page

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

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

1.4. Product Information

Product Name	Bodypack Transmitter
Model No.	ADX1 K54, ADX1LEMO3 K54
Serial No.	2DC28429630
Microphone Specification	UHF Microphone Transmitter
ZigBee Specification	802.15.4
Antenna Information	Refer to section 1.5
Power Type	Rechargeable Li-battery
Accessory	
Battery	Model: SB910 Rating Voltage: 3.6V ⎓ 2200mAh 7.92Wh
Notes: 1.The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2.ADX1 and ADX1LEMO3 are completely same except audio connector, ADX1 contains TQG connector, while ADX1LEMO3 contains LEMO3 connector.	

1.5. Radio Specification under Test

Frequency Range	606 ~ 663 MHz
Declared Power Level	STD: 2mW & 10mW & 40mW HD: 2mW
Type of Modulation	8PSK
Channel Spacing	25kHz
Antenna Type	Dipole
Antenna Gain	0.60dBi
Note 1: Power level and transmit frequency can be selected using the front panel controls. Note 2: For other features of this EUT, test report will be issued separately.	

1.6. Working Frequencies

Bottom Channel (MHz)	Middle Channel (MHz)	Top Channel (MHz)
606 ~ 608 MHz Frequency Band (Max Power = 40mW)		
606.000	N/A	607.875
614 ~ 616 MHz Frequency Band (Max Power = 10mW)		
614.125	N/A	615.872
657 ~ 663 MHz Frequency Band (Max Power = 10mW)		
657.000	N/A	662.875

2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at K54 Band by STD Mode (10/40mW)
Mode 2: Transmit at K54 Band by HD Mode (2mW)

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 15.236
- KDB 206256 D01v02r01
- ANSI C63.10-2013
- ETSI EN 300 422 - 1 V 1.4.2

2.4. Test Environment Condition

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

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
USB Power Sensor	Keysight	U2021XA	MRTSUE06447	1 year	2025-05-08	WZ-SR5
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2025-05-12	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2025-05-08	WZ-SR5/ WZ-TR3
Temperature Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2024-09-27	WZ-TR3
Thermohygrometer	testo	608-H1	MRTSUE11268	1 year	2024-12-14	WZ-TR3
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2025-07-26	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	230711	RE & CE
Controller_MF 7802	2.03C	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.

4.2. 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.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
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
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.2dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.4dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.7%

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
15.236(f)(2)	Occupied Bandwidth	Conducted	Pass
15.236(f)(3)	Frequency Tolerance		Pass
15.236(g)	Necessary Bandwidth		Pass
15.236(d)(1)	RF Output Power		Pass
15.236(g)	Radiated Spurious Emission	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	N/A

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.

5.2. 99% Occupied Bandwidth Measurement

5.2.1. Test Limit

The operating bandwidth shall not exceed 200 kHz.

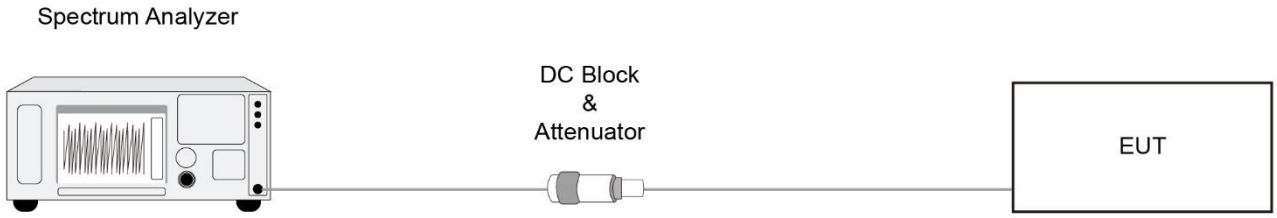
5.2.2. Test Procedure

ANSI C63.10-2013 - Section 6.9.3

5.2.3. Test Setting

1. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
2. Set RBW ≥ 1% to 5% of the OBW
3. VBW = Approximately three times RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Frequency Tolerance Measurement

5.3.1. Test Limit

The frequency tolerance of the carrier signal shall be maintained within ±0.005% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. Battery operated equipment shall be tested using a new battery.

5.3.2. Test Procedure

ANSI C63.10-2013 - Section 6.8

5.3.3. Test Setting

The EUT was programmed to transmit with an unmodulated carrier.

Frequency Stability Under Temperature Variations:

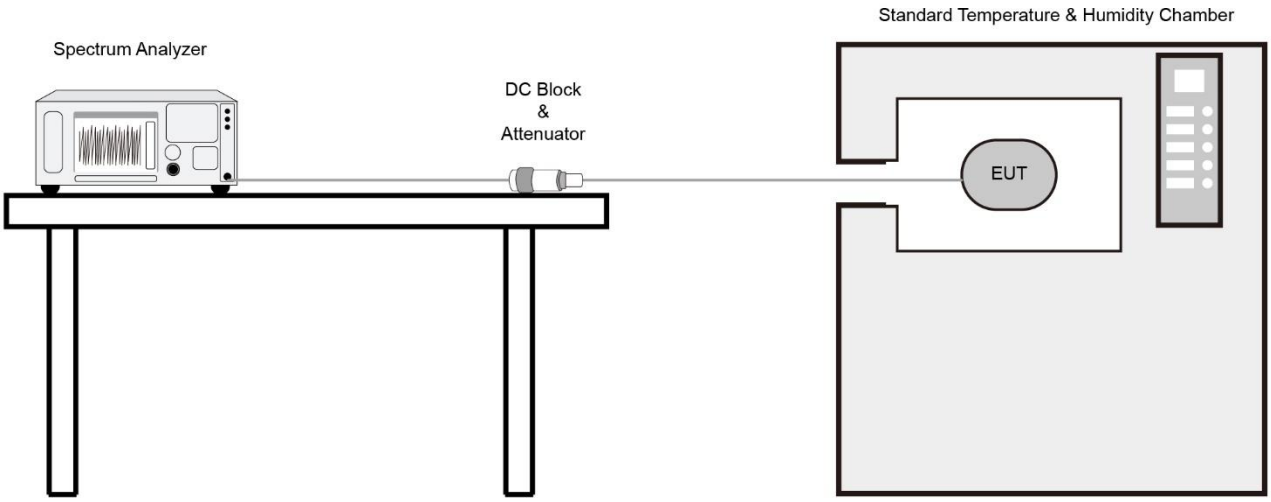
The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

5.3.4. Test Setup



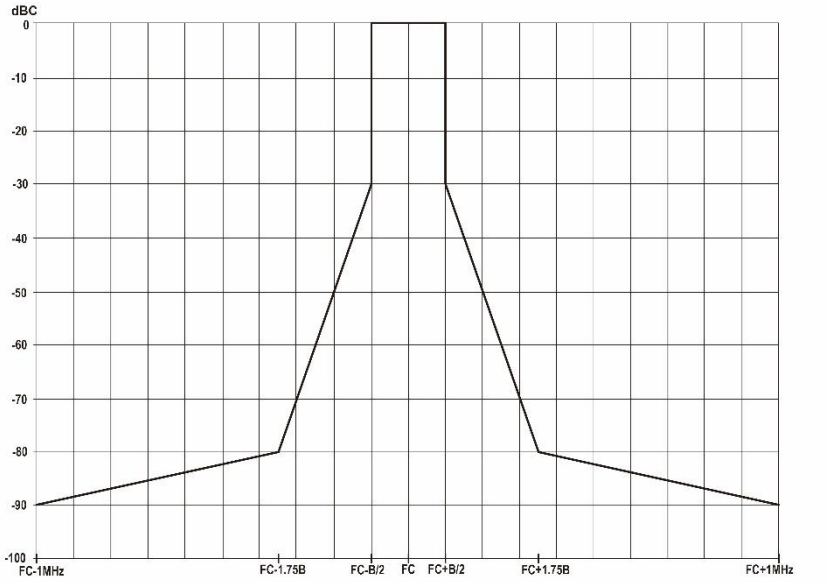
5.3.5. Test Result

Refer to Appendix A.2.

5.4. Necessary Bandwidth Measurement

5.4.1. Test Limit

According to EN 300 422-1 V1.4.2 clause 8.3.2.2, the transmitter output spectrum shall be within the mask defined as below figure.



5.4.2. Test Procedure

ETSI EN 300 422-1 V1.4.2 clause 8.3.2.1.

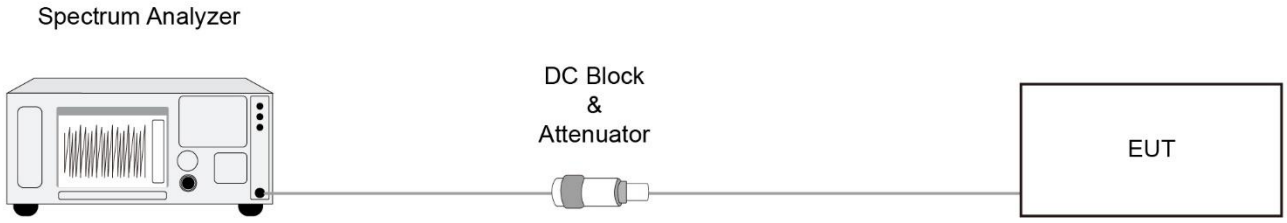
5.4.3. Test Setting

The EUT was powered up and the transmit frequency & power output of the EUT were selected.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.

Only bottom and top channel is required, at an output power level of 2mW & 10mW & 35mW.

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Output Power Measurement

5.5.1. Test Limit

In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP.

In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

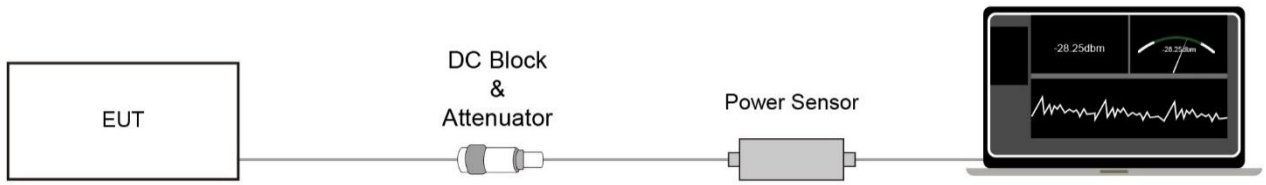
5.5.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.2.3.2

5.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4.

5.6. Radiated Spurious Emission Measurement

5.6.1. Test Limit

According to FCC Part 15.236(g), emissions outside of this band shall comply with the limits specified in section 8.4.3 of ETSI EN 300 422-1 V1.4.2.

State	Frequency Range		
	47MHz to 74MHz, 87.5MHz to 137MHz 174MHz to 230MHz, 470MHz to 862MHz	Other Frequencies below 1000MHz	Frequencies above 1000MHz
Operation	4nW	250nW	1uW
Standby	2nW	2nW	20nW

5.6.2. Test Procedure

ETSI EN 300 422-1 V1.4.2 clause 8.4.2.

5.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
25 ~ 30 MHz	9 kHz
30 ~ 1000 MHz	100 kHz
1000 ~ 6000 MHz	1 MHz

Emissions shall be investigated up to the 10th harmonic of the fundamental.

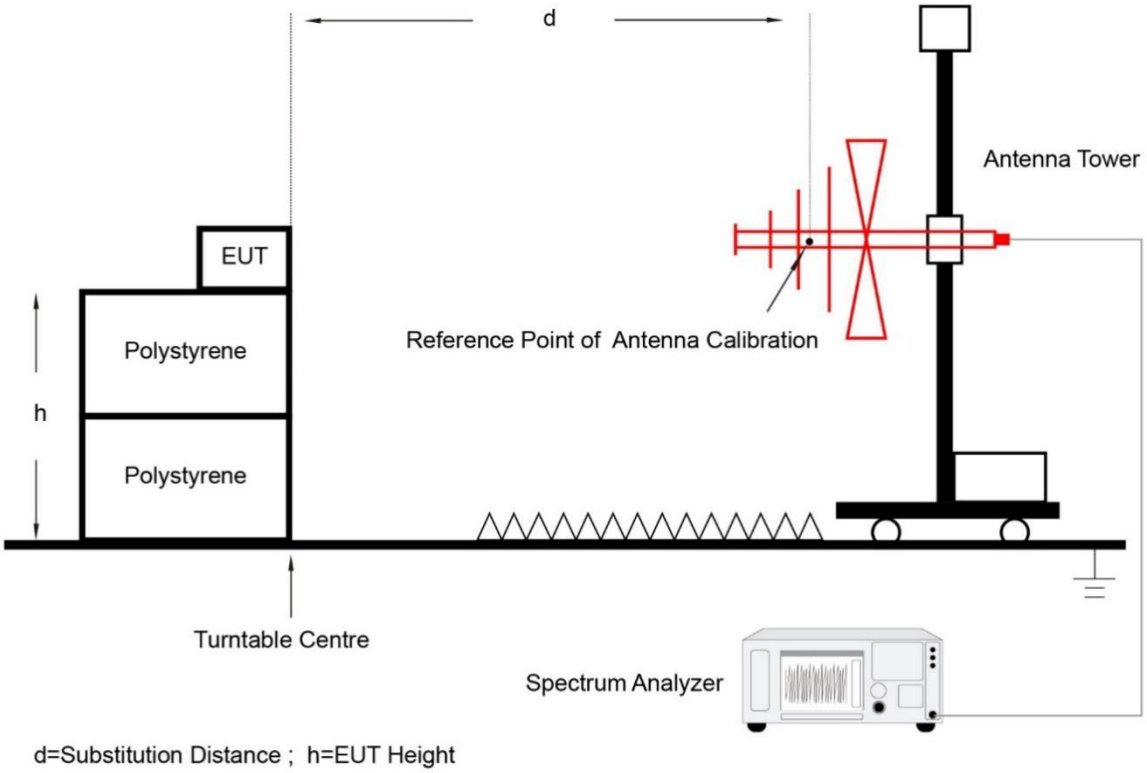
All the emissions shall be demonstrated using a QP detector below 1 GHz and an RMS Average detector above 1 GHz.

All significant broadband and narrowband signals found in the preliminary sweeps were measured using a peak detector at a test distance of 3 meters.

at each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

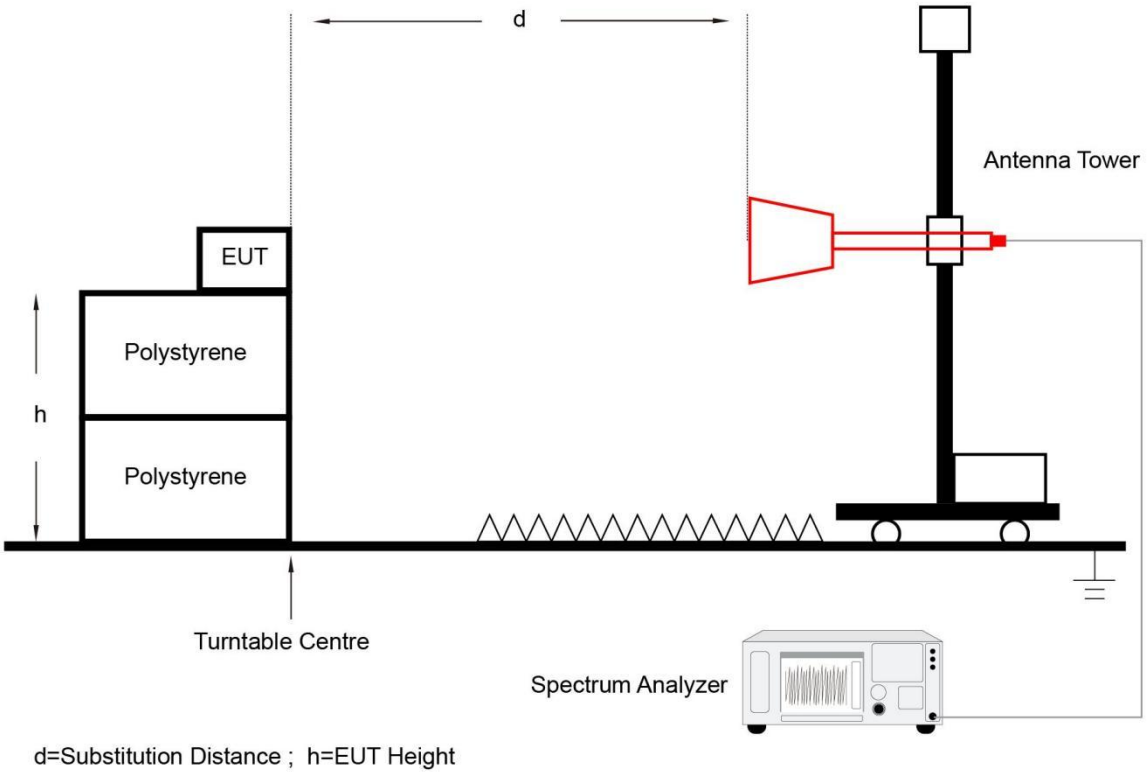
5.6.4. Test Setup

Below 1GHz Test Setup:



d=Substitution Distance ; h=EUT Height

Above 1GHz Test Setup:



d=Substitution Distance ; h=EUT Height

5.6.5. Test Result

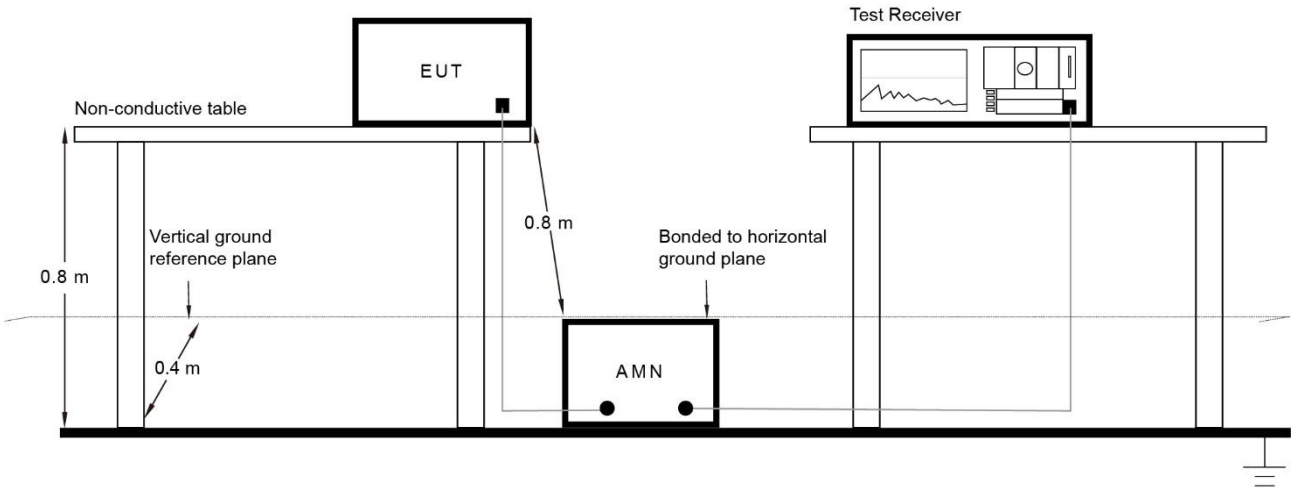
Refer to Appendix A.5.

5.7. AC Conducted Emissions Measurement

5.7.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	Average (dBμV)
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.		

5.7.2. Test Setup



5.7.3. Test Result

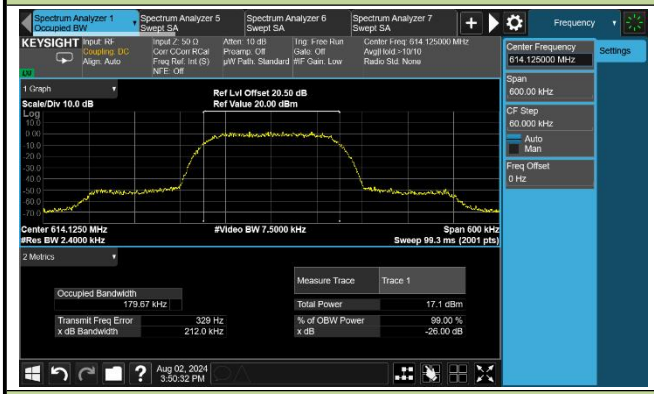
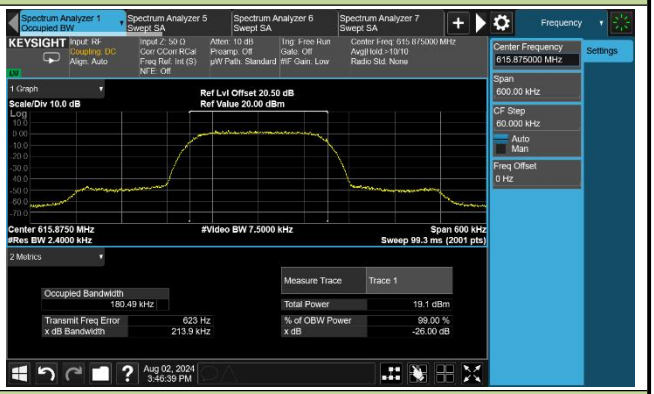
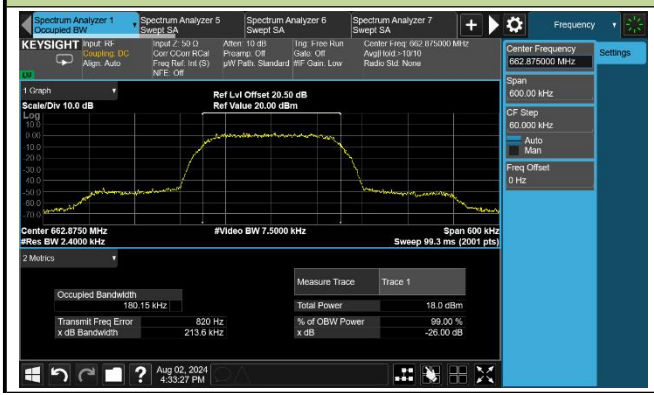
Refer to Appendix A.6.

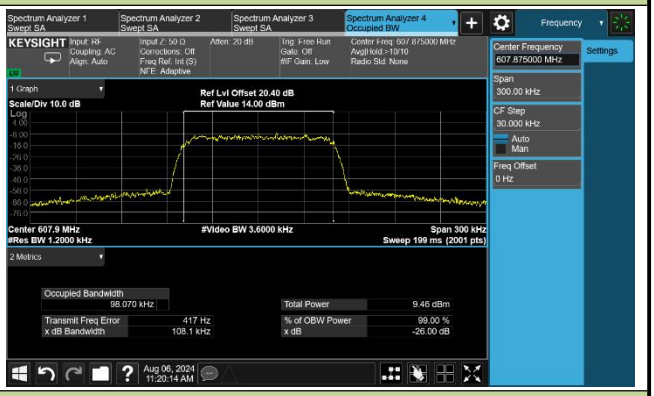
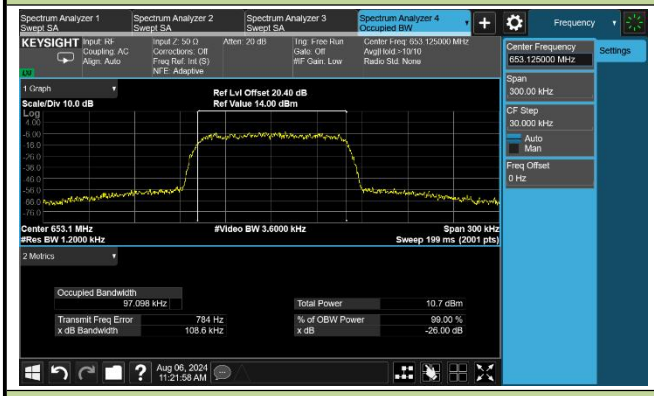
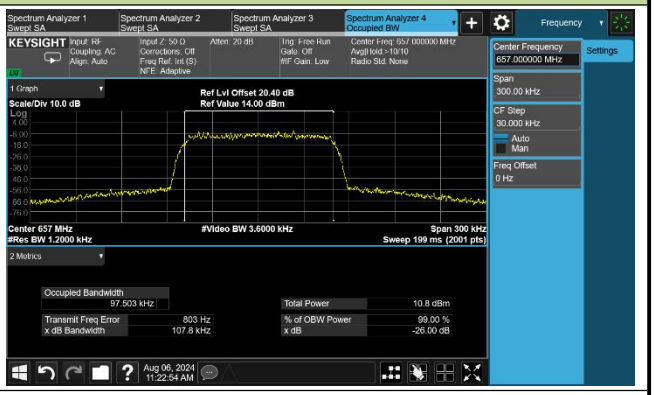
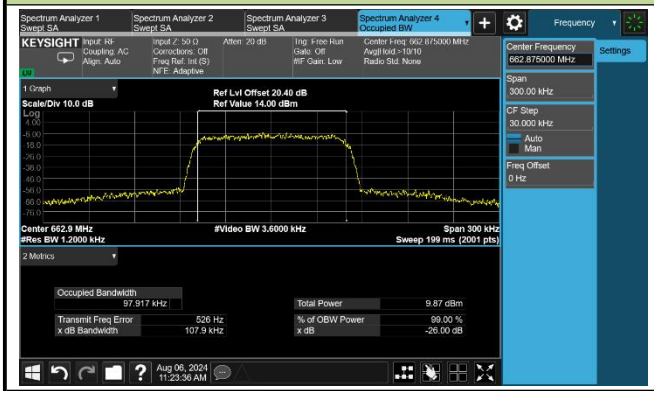
Appendix A – Test Result

A.1 99% Occupied Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-02 ~ 2024-08-06		

Mode	Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)	Result
P=40mW	606.000	180.160	< 200	Pass
	607.875	181.340	< 200	Pass
	614.125	179.670	< 200	Pass
	615.875	180.490	< 200	Pass
	653.125	180.410	< 200	Pass
	657.000	180.140	< 200	Pass
	662.875	180.150	< 200	Pass
P=2mW	606.000	97.726	< 200	Pass
	607.875	98.070	< 200	Pass
	614.125	97.616	< 200	Pass
	615.875	97.551	< 200	Pass
	653.125	97.098	< 200	Pass
	657.000	97.503	< 200	Pass
	662.875	97.917	< 200	Pass

99% Occupied Bandwidth – 40mW	
606.000 MHz	607.875 MHz
	
614.125 MHz	615.875 MHz
	
653.125 MHz	657.000 MHz
	
662.875 MHz	
	

99% Occupied Bandwidth – 2mW	
606.000 MHz	607.875 MHz
	
614.125 MHz	615.875 MHz
	
653.125 MHz	657.000 MHz
	
662.875 MHz	
	

A.2 Frequency Tolerance Test Result

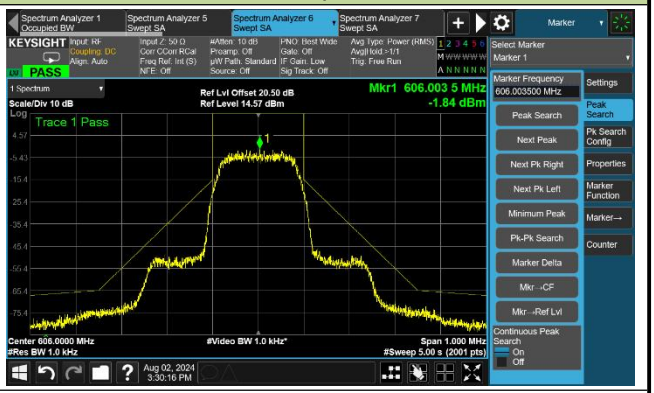
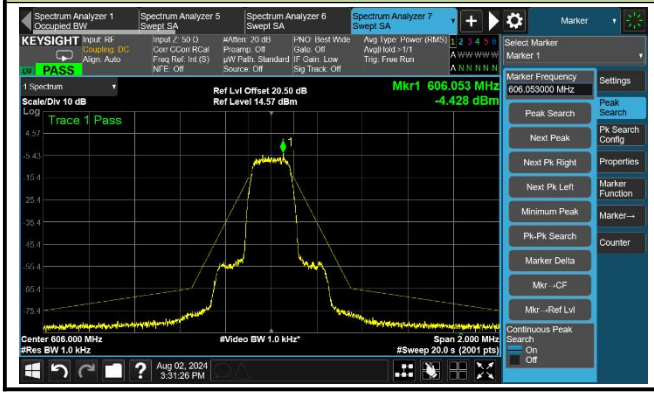
Test Site	WZ-TR3	Test Engineer	Lynn Yang
Test Date	2024-08-07	Test Mode	606.000MHz

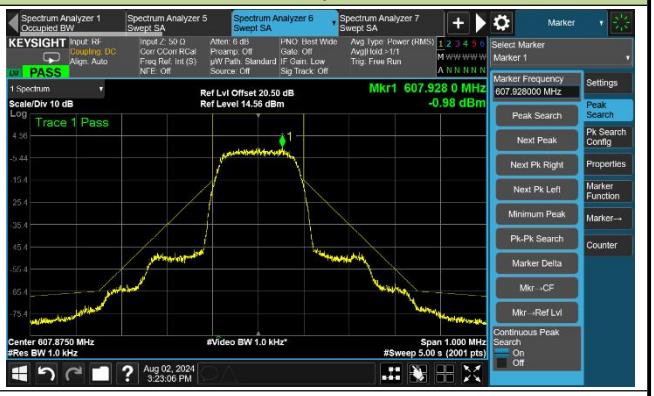
Voltage (%)	Power (DC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100	3.6	- 20	0.00000	0.00000	-0.00008	-0.00011
		-10	0.00004	0.00004	0.00004	0.00003
		0	0.00006	0.00006	0.00005	0.00005
		+ 10	0.00007	0.00007	0.00007	0.00007
		+ 20	0.00008	0.00008	0.00009	0.00009
		+ 30	0.00008	0.00008	0.00008	0.00008
		+ 40	0.00006	0.00007	0.00007	0.00007
		+ 50	0.00007	0.00007	0.00007	0.00007
115	4.14	+ 20	0.00008	0.00008	0.00007	0.00007
85	3.06	+ 20	0.00007	0.00007	0.00007	0.00007

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10^2.

A.3 Necessary Bandwidth Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-02	Test Mode	Mode 1

Necessary Bandwidth – 40mW, 606.000MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth – 40mW, 607.875MHz	
Step 1	Step 2
	
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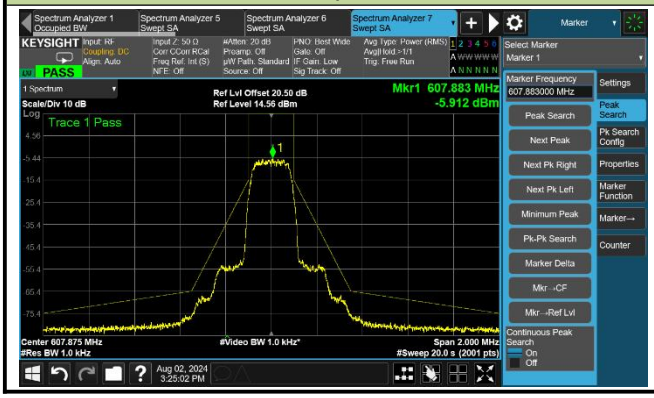
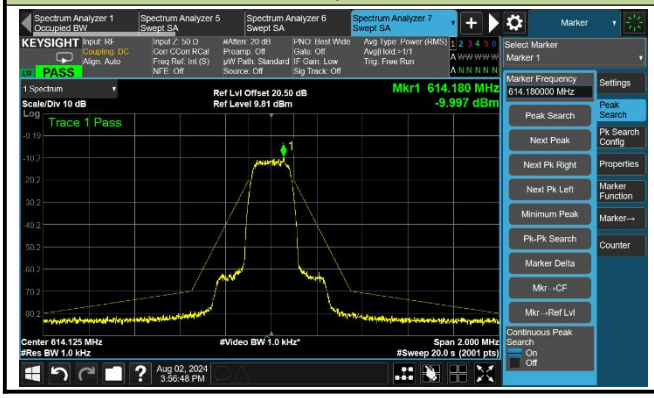
	

Necessary Bandwidth – 40mW, 614.125MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth – 40mW, 615.875MHz	
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	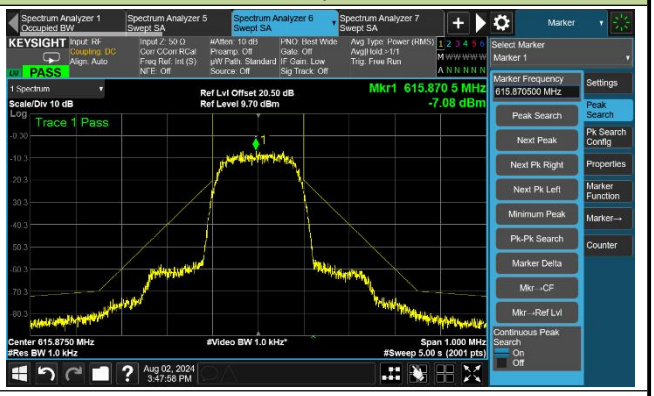
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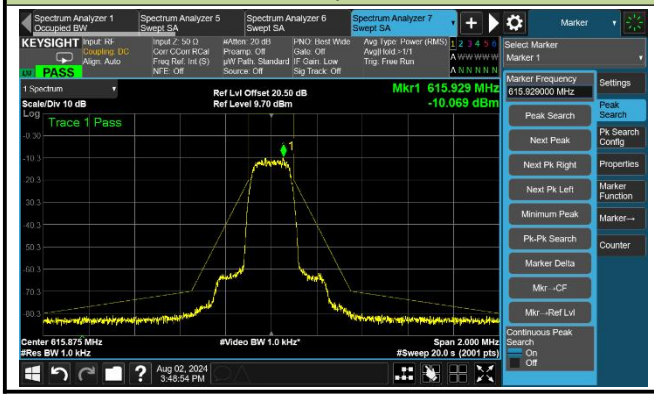
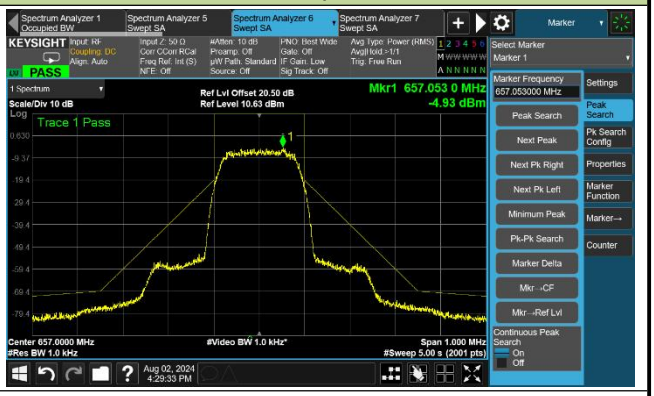
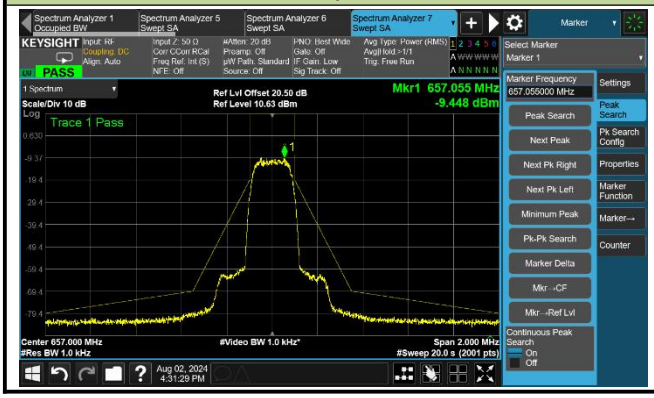
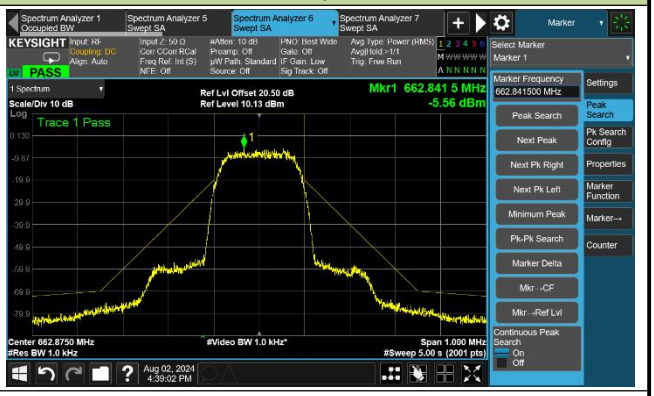
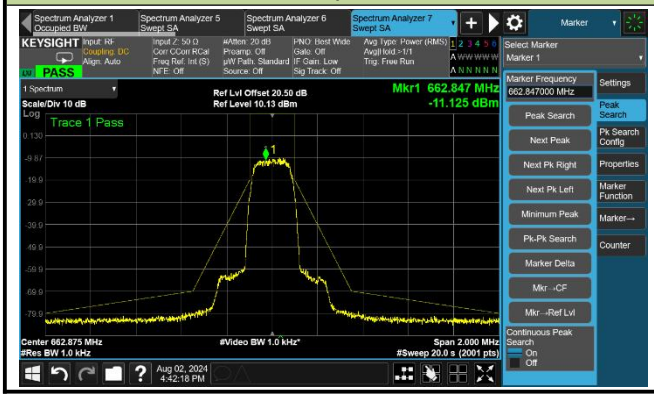
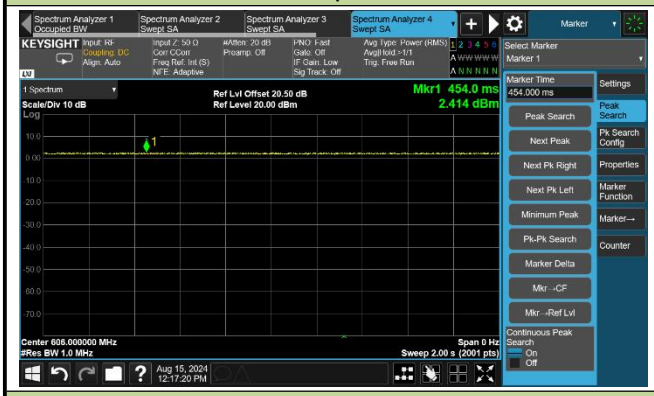
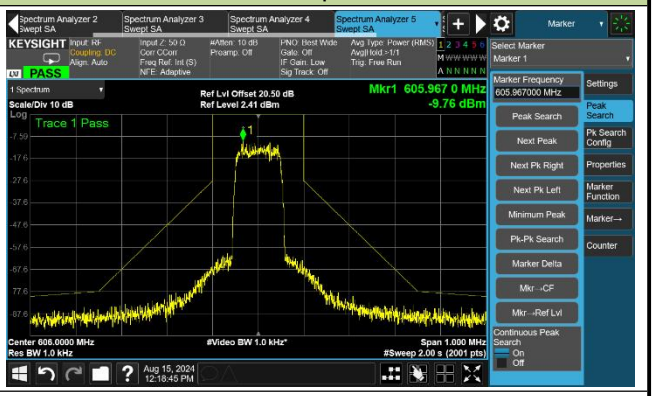
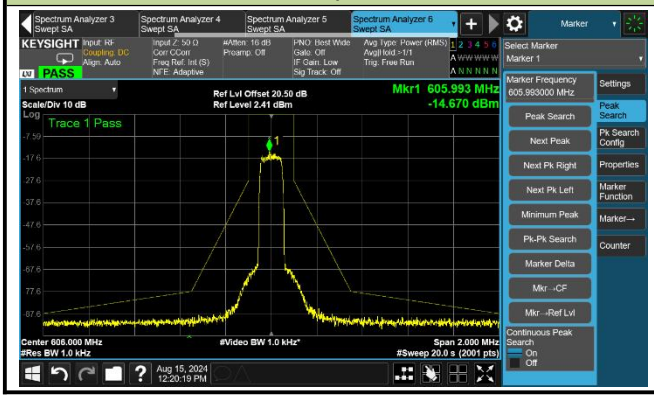
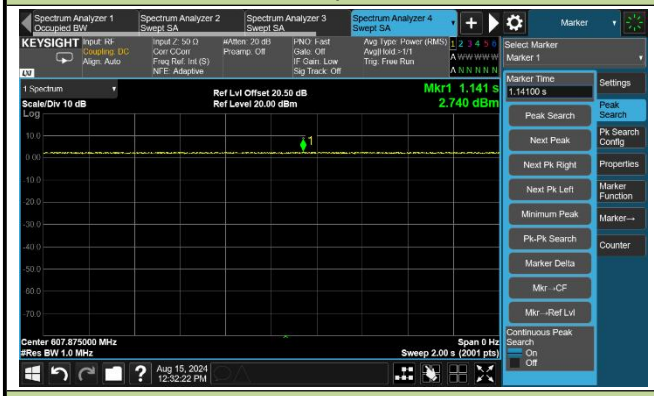
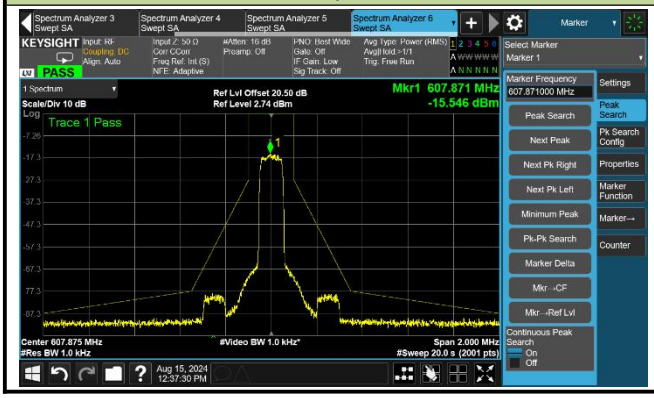
	

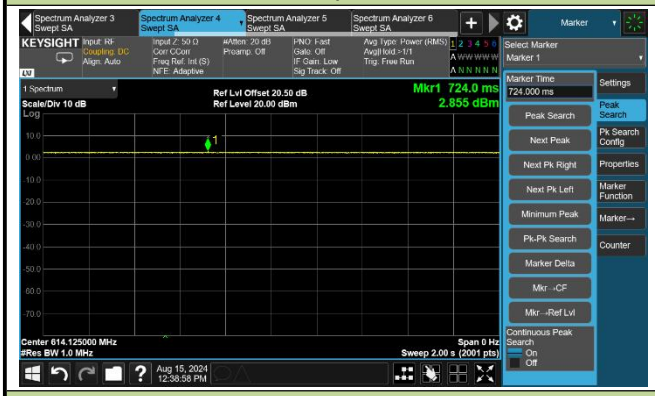
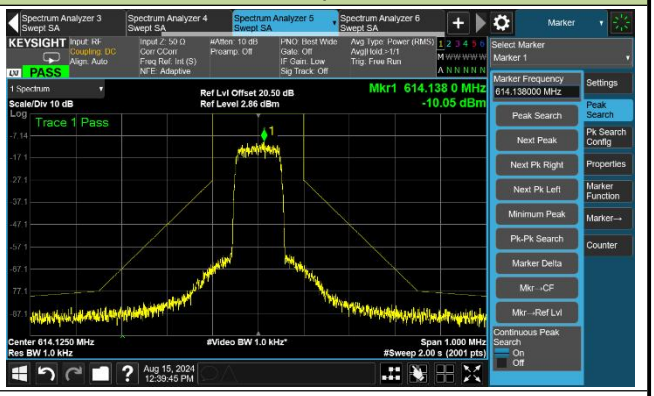
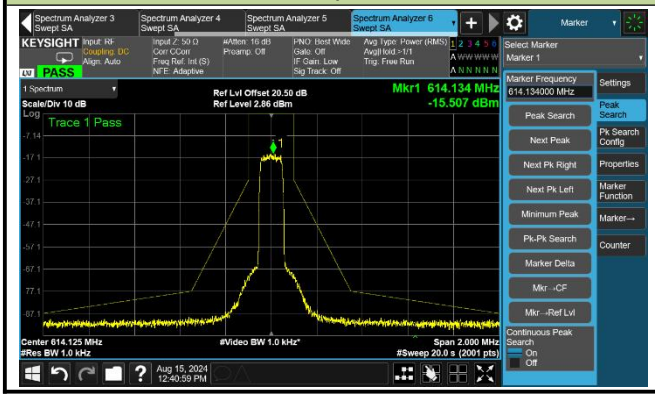
Necessary Bandwidth – 40mW, 657.000MHz	
Step 1	Step 2
	
Step 3	
	

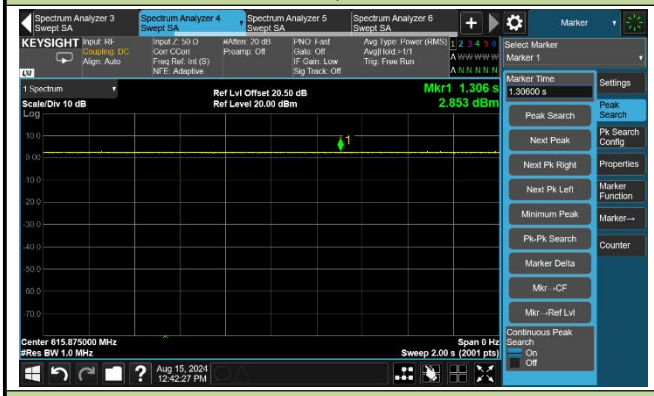
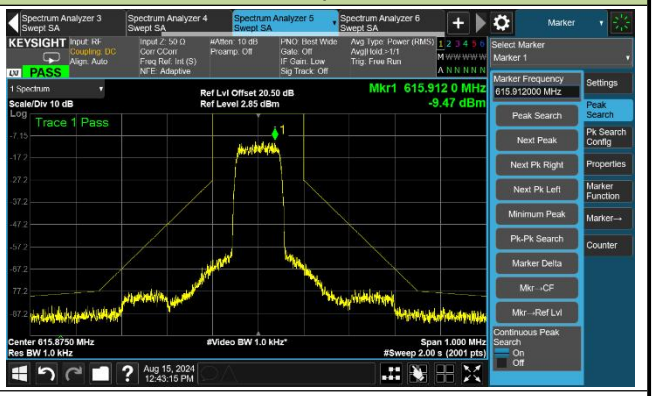
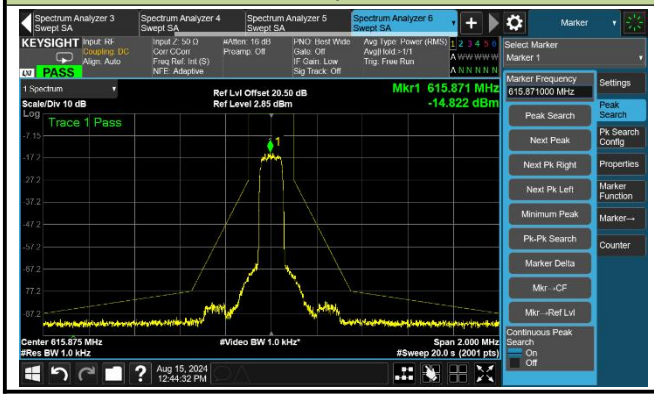
Necessary Bandwidth – 40mW, 662.875MHz	
Step 1	Step 2
	
Step 3	
	

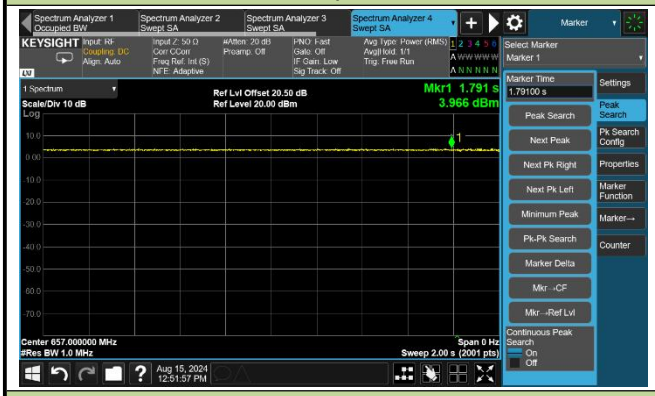
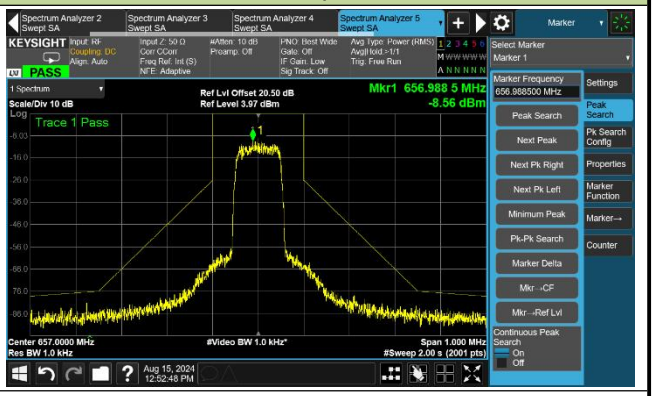
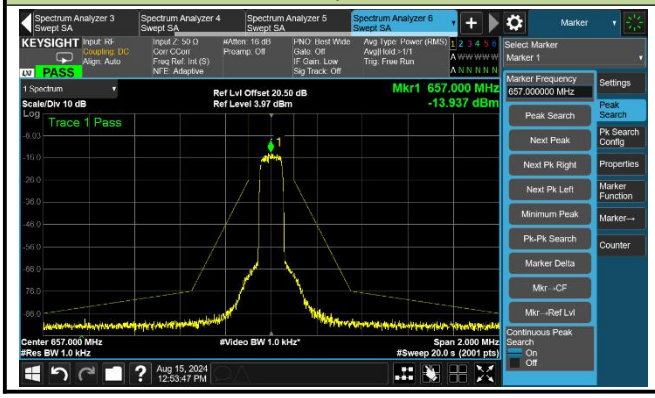
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-15	Test Mode	Mode 2

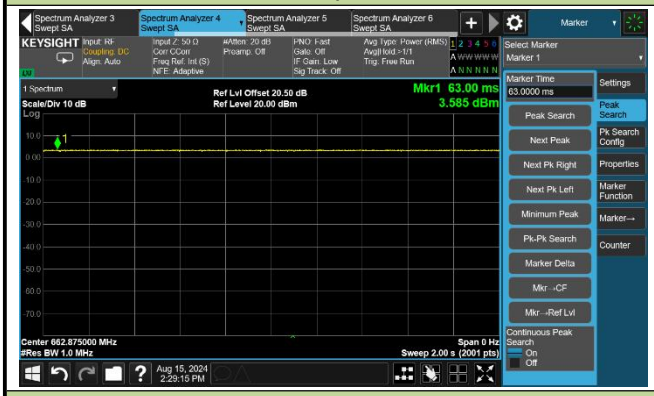
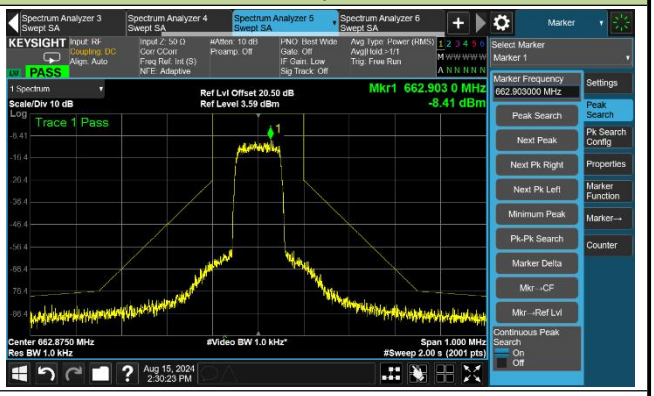
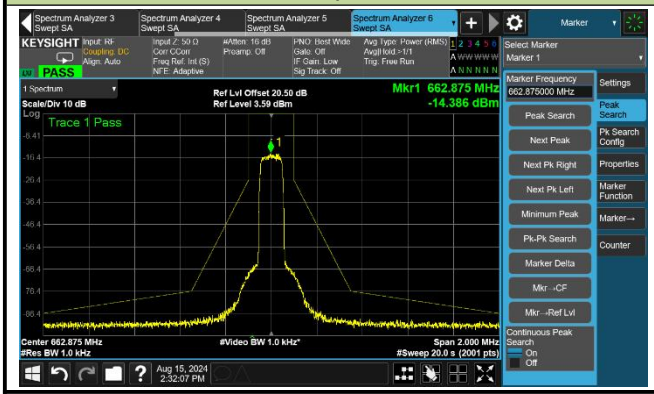
Necessary Bandwidth - 2mW, 606.000MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth - 2mW, 607.875MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth - 2mW, 614.125MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth - 2mW, 615.875MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth - 2mW, 657.000MHz	
Step 1	Step 2
	
Step 3	
	

Necessary Bandwidth - 2mW, 662.875MHz	
Step 1	Step 2
	
Step 3	
	

A.4 Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2024-08-02		

Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Test Result
STD Mode (40mW)					
606.000	14.59	0.60	15.19	16.99	Pass
607.875	14.55	0.60	15.15	16.99	Pass
614.125	9.56	0.60	10.16	13.01	Pass
615.875	9.54	0.60	10.14	13.01	Pass
657.000	10.52	0.60	11.12	13.01	Pass
662.875	9.93	0.60	10.53	13.01	Pass
HD Mode (2mW)					
606.000	2.19	0.60	2.79	16.99	Pass
607.875	2.18	0.60	2.78	16.99	Pass
614.125	2.31	0.60	2.91	13.01	Pass
615.875	2.29	0.60	2.89	13.01	Pass
657.000	3.46	0.60	4.06	13.01	Pass
662.875	2.88	0.60	3.48	13.01	Pass

Note 1: Limit = 10*Log (50mW) = 16.99 dBm.

Note 2: Limit = 10*Log (20mW) = 13.01 dBm.

Note 3: EIRP (dBm) = Conducted Power dBm) + Antenna Gain (dBi).

A.5 Radiated Spurious Emission Test Result

Test Site	WZ-AC1	Test Engineer	Lucas Wang
Test Date	2024-08-07		

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
606.000	629.945	-93.1	33.8	-59.3	-54.0	-5.3	Peak	Horizontal
	715.693	-102.8	37.5	-65.3	-54.0	-11.3	Peak	Horizontal
	614.522	-101.2	34.4	-66.8	-54.0	-12.8	Peak	Vertical
	837.719	-102.8	37.8	-65.0	-54.0	-11.0	Peak	Vertical
	1211.800	-53.2	3.8	-49.4	-30.0	-19.4	Peak	Horizontal
	3029.800	-59.5	10.3	-49.2	-30.0	-19.2	Peak	Horizontal
	1817.800	-58.2	5.2	-53.0	-30.0	-23.0	Peak	Vertical
	3029.800	-57.3	10.6	-46.7	-30.0	-16.7	Peak	Vertical
607.875	620.633	-93.9	33.7	-60.2	-54.0	-6.2	Peak	Horizontal
	811.432	-102.6	36.7	-65.9	-54.0	-11.9	Peak	Horizontal
	619.469	-100.6	34.7	-65.9	-54.0	-11.9	Peak	Vertical
	835.488	-103.4	37.9	-65.5	-54.0	-11.5	Peak	Vertical
	1216.000	-52.5	3.4	-49.1	-30.0	-19.1	Peak	Horizontal
	3039.400	-61.1	10.1	-51.0	-30.0	-21.0	Peak	Horizontal
	1893.400	-58.0	5.4	-52.6	-30.0	-22.6	Peak	Vertical
	3038.800	-62.9	10.5	-52.4	-30.0	-22.4	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: RMS measurement was not performed when peak measure level was lower than the RMS limit.

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
614.125	625.774	-96.2	33.7	-62.5	-54.0	-8.5	Peak	Horizontal
	747.800	-103.4	36.3	-67.1	-54.0	-13.1	Peak	Horizontal
	509.956	-102.6	31.7	-70.9	-54.0	-16.9	Peak	Vertical
	803.866	-102.0	36.7	-65.3	-54.0	-11.3	Peak	Vertical
	1228.000	-57.5	3.0	-54.5	-30.0	-24.5	Peak	Horizontal
	3074.800	-66.6	11.0	-55.6	-30.0	-25.6	Peak	Horizontal
	1921.000	-63.7	6.4	-57.3	-30.0	-27.3	Peak	Vertical
	3446.200	-65.0	12.4	-52.6	-30.0	-22.6	Peak	Vertical
615.875	610.642	-96.0	33.1	-62.9	-54.0	-8.9	Peak	Horizontal
	720.349	-103.3	37.7	-65.6	-54.0	-11.6	Peak	Horizontal
	623.737	-102.3	34.8	-67.5	-54.0	-13.5	Peak	Vertical
	832.675	-103.0	38.0	-65.0	-54.0	-11.0	Peak	Vertical
	1231.600	-57.0	3.0	-54.0	-30.0	-24.0	Peak	Horizontal
	3224.800	-65.9	11.8	-54.1	-30.0	-24.1	Peak	Horizontal
	2396.200	-65.1	9.0	-56.1	-30.0	-26.1	Peak	Vertical
	5160.400	-68.3	17.4	-50.9	-30.0	-20.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: RMS measurement was not performed when peak measure level was lower than the RMS limit.

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
657.000	672.528	-97.1	35.5	-61.6	-54.0	-7.6	Peak	Horizontal
	836.749	-102.8	37.8	-65.0	-54.0	-11.0	Peak	Horizontal
	568.835	-103.9	32.9	-71.0	-54.0	-17.0	Peak	Vertical
	832.966	-104.3	38.1	-66.2	-54.0	-12.2	Peak	Vertical
	1970.800	-56.8	6.1	-50.7	-30.0	-20.7	Peak	Horizontal
	3284.800	-60.7	12.0	-48.7	-30.0	-18.7	Peak	Horizontal
	1970.800	-60.7	5.8	-54.9	-30.0	-24.9	Peak	Vertical
	3285.400	-62.2	12.0	-50.2	-30.0	-20.2	Peak	Vertical
662.875	653.419	-95.2	35.1	-60.1	-54.0	-6.1	Peak	Horizontal
	853.918	-102.6	37.5	-65.1	-54.0	-11.1	Peak	Horizontal
	583.288	-103.7	33.4	-70.3	-54.0	-16.3	Peak	Vertical
	831.899	-103.8	37.8	-66.0	-54.0	-12.0	Peak	Vertical
	1325.800	-56.1	3.8	-52.3	-30.0	-22.3	Peak	Horizontal
	3314.200	-59.5	11.1	-48.4	-30.0	-18.4	Peak	Horizontal
	3314.200	-64.6	11.9	-52.7	-30.0	-22.7	Peak	Vertical
	5568.400	-68.2	18.3	-49.9	-30.0	-19.9	Peak	Vertical

Note 1: Measure Level (dBm) = Reading Level (dBm) + Substitution Factor (dB)

Note 2: Substitution Factor (dB) = Cable Loss (dB) + Space Attenuation (dB) - Antenna Gain (dBi) - 2.15 (dB)

Note 3: RMS measurement was not performed when peak measure level was lower than the RMS limit.

A.6 AC Conducted Emissions Test Result

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

Appendix B - Test Setup Photograph

Refer to “2407RSU039-UT” file.

Appendix C - EUT Photograph

Refer to “2407RSU039-UE” file.

The End