RF MEASUREMENT REPORT

FCC ID:	DD4ADTDK54
Applicant:	Shure Incorporated
Product:	Wireless Dual Transmitter
Model No.:	ADTD K54, ADTD DC K54
Trade Mark:	SHURE, SHURE
FCC Classification:	Licensed LPAS Device (TLD)
FCC Rule Part(s):	Part 74 Subpart H (Section 74.861)
Application Type:	Class II Permissive Change
Result:	Complies
Received Date:	2025-05-16
Test Date:	2025-06-06 ~ 2025-06-16

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

Revision History

Report No.	Version	Description	Issue Date	Note
R25S1019045-U203	V01	Initial Report	2025-06-23	Valid

Note: This product has obtained FCC approval (FCC ID: DD4ADTDK54), original RF report no. is 2406RSU021-U16. Now the product has been modified via software, detail as follows. Therefore, we performed some testing to address these changes.

• Change the frequency range for partial original test mode (Mode 1 and 2).

CONTENTS

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	Wireless Dual Transmitter
Model No.	ADTD K54, ADTD DC K54
Serial No.	2DE31787870
Radio Specification	UHF Microphone Transmitter
Antenna Information	Refer to section 1.7
Operating Temperature	-18 ~ 50 °C
Network Interface	10/100/1000 Mbps, Dante Digital Audio
Power Type	AC Power Input (100~240V AC) & DC Power Input (12~48V) AC Power Output (100~240V AC)
Accessory	
8 Port Antenna Combiner	Model: AD8C, AD8C DC AC Ver.: 100-240V~, 50/60Hz, 0.76A max (5.76A max outlet loaded), DC Ver.: 12-48V DC, 4A max
Note 1: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer. Note 2: ADTD K54 and ADTD DC K54 are completely same except power supply difference, ADTD K54 supports AC power supply, while ADTD DC K54 supports both AC and DC power supply. Note 3: AD8C and AD8C DC are completely same except power supply difference, AD8C supports AC power supply, while AD8C DC supports both AC and DC power supply.	

1.5. Radio Specification under Test

Transmission Mode	2-channel Wideband (WMAS)
Frequency Range	606 ~ 608 MHz & 653 ~ 657 MHz
Declared Power Level	Low & Mid & High
Type of Modulation	2-channel Wideband: OFDM
Declared Occupied Bandwidth	2-channel Wideband (WMAS): 440 kHz
Channel Spacing	25 kHz
RF Connector Type	BNC

1.6. Working Frequencies

Bottom Channel (MHz)	Middle Channel (MHz)	Top Channel (MHz)
2-channel Wideband		
606 ~ 608 MHz Frequency Band		
606.000	N/A	607.800
653 ~ 657 MHz Frequency Band		
653.200	N/A	657.000

1.7. Antenna Details

Antenna Type	Frequency Band (MHz)	Manufacturer	Peak Gain (dBi)
Dipole	606 ~ 663	Shure	0.30

2. Test Configuration

2.1. Test Mode

Mode 1: Transmit at K54 Band by 2-Channel wideband (Power Level = 126 & 20mW)
Mode 2: Transmit at K54 Band by 2-Channel wideband, spatial diversity (Power Level = 40 & 8mW)
Note: Modes 1 and 2 have been updated based on Modes 6 and 7, respectively, from the original report (Report No.: 2406RSU021-U16), with modifications to naming, frequency range, and power level. Therefore, the power has been verified, and other items refer to the original report.

2.2. Test Software

Power level and transmit frequency can be selected using the front panel controls.

2.3. Applied Standards

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

- FCC Part 74.861
- KDB 206256 D01v03
- ANSI C63.26-2015
- ETSI EN 300 422 - 1 V 2.2.1

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
Thermohygrometer	testo	608-H1	MRTSUE06402	1 year	2026-04-24	WZ-SR5
Shielding Room	HUAMING	WZ-SR5	MRTSUE06442	N/A	N/A	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06457	1 year	2026-04-26	WZ-SR5
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2026-05-17	WZ-SR5
USB Power Sensor	Keysight	U2021XA	MRTSUE06446	1 year	2026-04-26	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11075	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11076	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11077	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Attenuator	MVE	MVE2213	MRTSUE11078	1 year	2025-06-03	WZ-SR5
				1 year	2026-06-02	WZ-SR5
Cable	UCwave	UCE500	24060015	Note	Note	WZ-SR5
TRILOG Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2026-03-22	WZ-AC2
EMI Test Receiver	Agilent	N9038A	MRTSUE06125	1 year	2026-04-26	WZ-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2025-09-23	WZ-AC2
Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2026-03-18	WZ-AC2
Anechoic Chamber	RIKEN	WZ-AC2	MRTSUE06213	1 year	2026-04-17	WZ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11263	1 year	2025-10-16	WZ-AC2

Note: The loss of the RF cable will be measured before testing.

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	1.02	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.

Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.35dB Coplanar: 9kHz~30MHz: 2.37dB Horizontal: 30MHz~200MHz: 3.47dB 200MHz~1GHz: 4.17dB 1GHz~40GHz: 4.97dB Vertical: 30MHz~200MHz: 4.07dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.84dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.5dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 3.2%

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
74.861(e)(1)(ii)(iii)	RF Output Power	Conducted	Pass
74.861(e)(5)	99% Occupied Bandwidth		Pass
74.861(e)(6)	Out of Band Emission		Pass
74.861(e)(7) (i&ii&iii)	Emission Mask		Pass
74.861(e)(7) (iv)	Radiated Spurious Emission	Radiated	Pass

Note: 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.

5.2. RF Output Power Measurement

5.2.1. Test Limit

470–608 MHz band: 250 mW conducted power

653–657 MHz band: 20 mW EIRP

5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.4.2

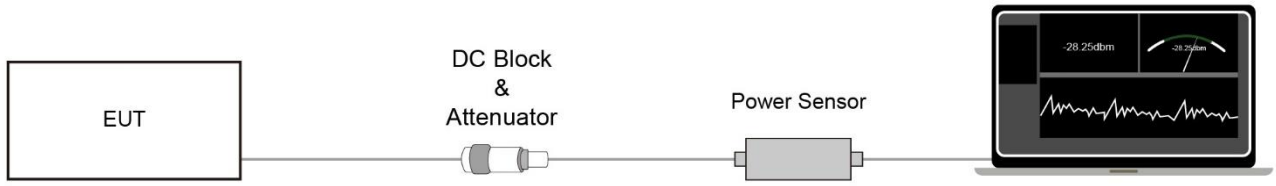
5.2.3. Test Setting

The output of the EUT was connected to an RF average power meter through fixed attenuation.

The EUT was set to transmit on the low, middle, and high frequencies in each power level.

Measure the average power of the transmitter.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. 99% Occupied Bandwidth Measurement

5.3.1. Test Limit

The operating bandwidth shall not exceed 200 kilohertz, except that a wireless multichannel audio system must have an operating bandwidth not exceeding 6 megahertz in the TV bands or 4 megahertz in the 653–657 MHz band.

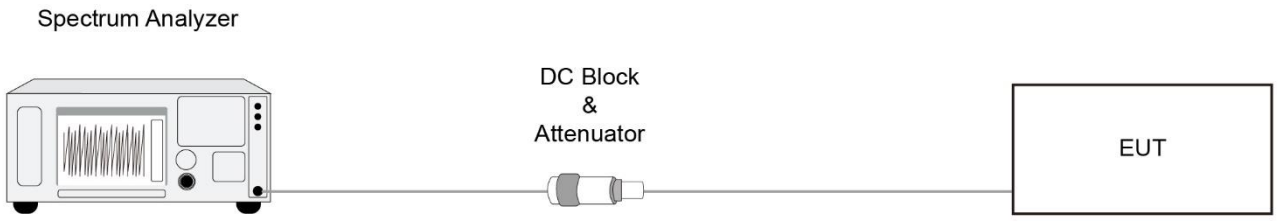
5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.4.4

5.3.3. Test Setting

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 - 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. Reported the measured 99% occupied bandwidth

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Out of Band Emission Measurement

5.4.1. Test Limit

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;

(ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;

(iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least 43+10log10 (mean output power in watts) dB.

5.4.2. Test Procedure

ANSI C63.26 - Section 5.7

5.4.3. Test Setting

a) The EUT was connected to a spectrum analyzer.

b) The EUT was modulated with typical digital modulation.

c) Set span to 2 × to 3 × the OBW

Set RBW ≥ OBW;

Set VBW ≥ 3 × RBW;

sweep time set to Auto,

Detector = power averaging (rms)

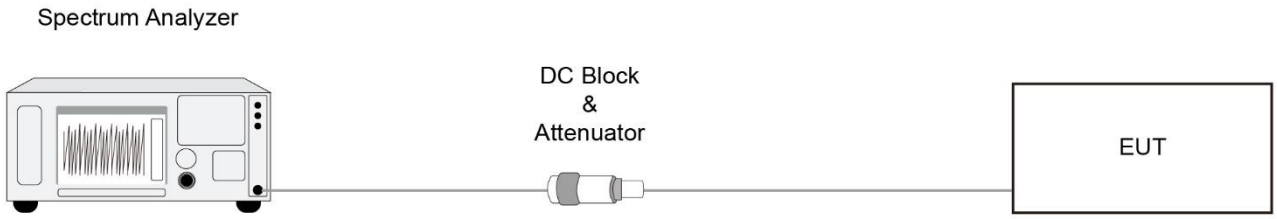
Use the peak marker function to determine the maximum amplitude level

d) The RMS output power was recorded and used to set the reference level on the spectrum analyzer.

e) The spectrum analyzer span was then set to 5× the OBW;

RBW set to 1% of the OBW, VBW set to 3 × RBW, sweep time to Auto.

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Emission Mask Measurement

5.5.1. Test Limit

(i)Analog systems. Emissions within the band from 2.5 × B below to 2.5 × B above the carrier frequency, where B is the channel bandwidth, shall comply with the Out of Band Emission in Figure 1 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

(ii) Digital systems. Emissions within the band from 2.5 × B below to 2.5 × B above the carrier frequency, where B is the channel bandwidth, shall comply with the Out of Band Emission in Figure 2 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

(iii) Wireless Multichannel Audio Systems. Emissions within the band from 2.5 × B below to 2.5 × B above the carrier frequency, where B is the channel bandwidth, shall comply with the Out of Band Emission in Figure 3 of section 4.2.4.2.2 of ETSI EN 300 422-1 V2.2.1 (2021-11), (incorporated by reference, see § 74.35).

The mean Power Density, measured with 1 kHz measurement bandwidth and RMS detector, of the transmitter unwanted emissions shall not exceed the limits of the masks provided in figure 1 for equipment employing analogue modulation and figure 2 for equipment employing digital modulation, but excluding WMAS. B is the Declared Channel Bandwidth.

Figure 1: Transmit spectral power mask for equipment employing analogue modulation, RBW = 1 kHz

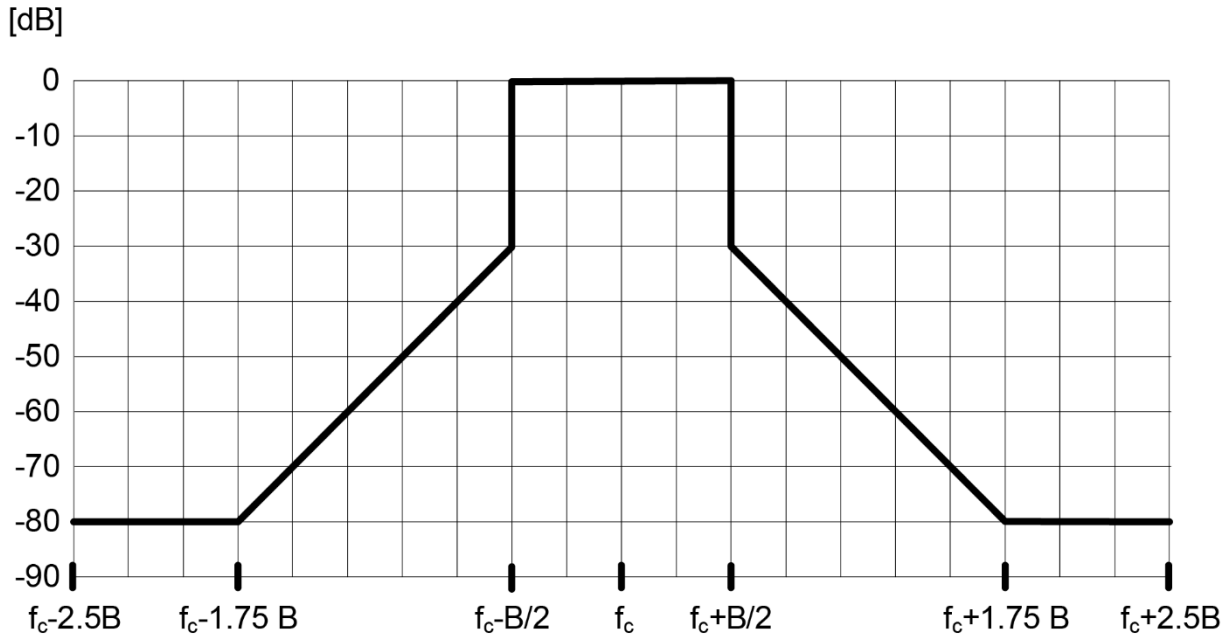


Figure 2: Transmit spectral power mask for equipment employing digital modulation, except WMAS, RBW = 1 kHz

The limits in figure 3 are applicable for WMAS, where B is the Declared Channel Bandwidth.

The mean Power Density, measured with 100 kHz measurement bandwidth and PEAK detector, of the transmitter unwanted emissions shall not exceed the limits of the mask provided in figure 3.

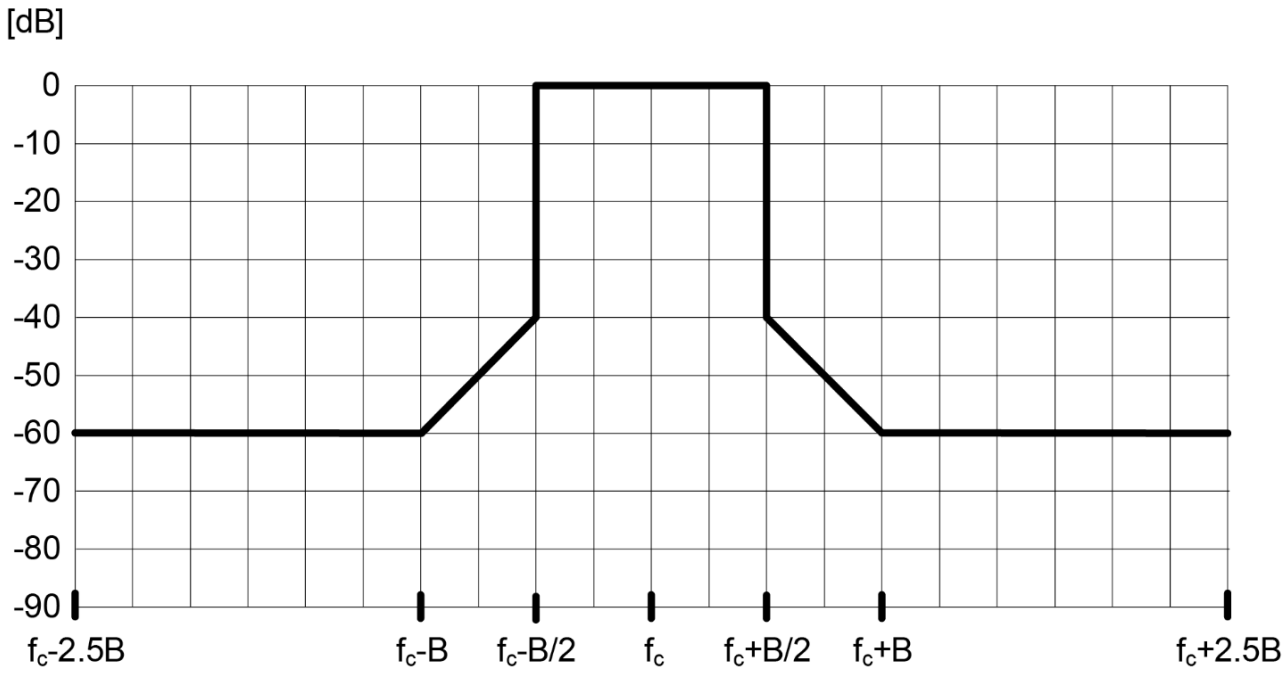


Figure 3: Transmit spectral power mask for WMAS, RBW = 100 kHz

The limits in figure 3 are provided with RBW = 100 kHz. The relevant measurements can also be performed with other RBW for certain ranges of B, accounting that the relevant limit given under RBW = 100 kHz needs to be converted appropriately by adding c = 10 × log10 (RBW/100 kHz) for correction.

Correction Factor for different B and applicable RBW

B	RBW, VBW	c = correction factor
B < 2 MHz	10 kHz	-10dB
2 MHz ≤ B < 5 MHz	25 kHz	-7dB
5 Hz ≤ B ≤ 20 MHz	100 kHz	0dB

5.5.2. Test Procedure

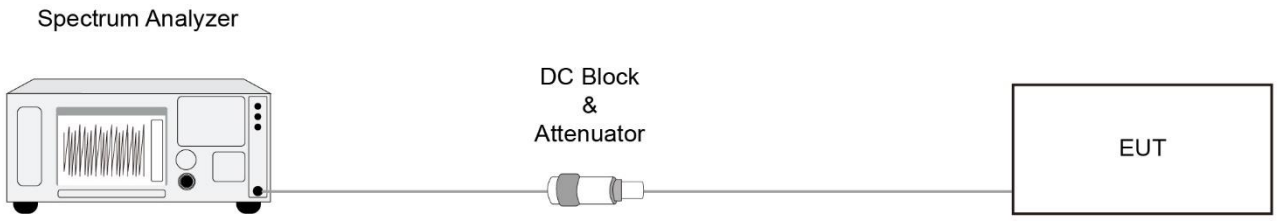
EN 300 422-1 V2.2.1 clause 5.4.3.2.

5.5.3. 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 frequency.

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4.

5.6. Radiated Spurious Emissions Measurement

5.6.1. Test Limit

Spurious emission limits. Emissions outside of the Out of Band Emissions listed in paragraphs (e)(7)(i) through (e)(7)(iii) shall comply with the limits specified in section 4.2.4.1.2 of ETSI EN 300 422-1 V2.2.1 (2021-11) (incorporated by reference, see § 74.35).

Emissions shall comply with the limits specified in section 4.2.4.1 of ETSI EN 300 422-1 v2.2.1.
The level of transmitter unwanted emissions in the spurious domain shall not exceed the limits given in table.
Transmitter unwanted emission limits

Frequency Range	Maximum power	RBW
9kHz – 150kHz	-36dBm	1kHz
150kHz – 30MHz	-36dBm	10kHz
30MHz – 1GHz	-36dBm	F_c + 2.5B ≤ f ≤ F_c + 4B: 1kHz F_c + 4B < f ≤ F_c + 10B: 10kHz f > F_c + 10B: 100kHz f < F_c - 10B: 100kHz F_c - 10B ≤ f < F_c - 4B: 10kHz F_c - 4B ≤ f ≤ F_c – 2.5B: 1kHz
Except:		
47MHz to 74MHz 87.5MHz to 118MHz	-54dBm	100kHz
174MHz to 230MHz 470MHz to 862MHz	-36dBm	F_c + 2.5B ≤ f ≤ F_c + 4B: 1kHz F_c + 4B < f ≤ F_c + 10B: 10kHz f > F_c + 10B: 100kHz f < F_c - 10B: 100kHz F_c - 10B ≤ f < F_c - 4B: 10kHz F_c - 4B ≤ f ≤ F_c – 2.5B: 1kHz
1GHz < f≤ F_{upper}	-30dBm	F_c + 2.5B ≤ f ≤ F_c + 10B: 30kHz F_c + 10B < f ≤ F_c + 12B: 300kHz f > F_c + 12B: 1MHz f < F_c - 12B: 1MHz F_c - 12B ≤ f < F_c - 10B: 300kHz F_c - 10B ≤ f ≤ F_c – 2.5B: 30kHz
With B being the Declared Channel Bandwidth. F_{upper} is defined in table 5.		

Table 5: Frequency range for measurement of unwanted emissions

Applicable fundamental frequency range	Frequency range for measurements	
	Lower frequency	Upper frequency
9 kHz - 100 MHz	9 kHz	1GHz
100 MHz - 300 MHz	9 kHz	10th harmonic of the operating frequency
300 MHz - 600 MHz	30 MHz	3GHz
600 MHz - 3 GHz	30 MHz	5th harmonic of the operating frequency

5.6.2. Test Procedure

ETSI EN 300 422-1 V2.2.1 clause 5.4.4

5.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
30 ~ 1000 MHz	100 kHz
1000 ~ 7000 MHz	1 MHz

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

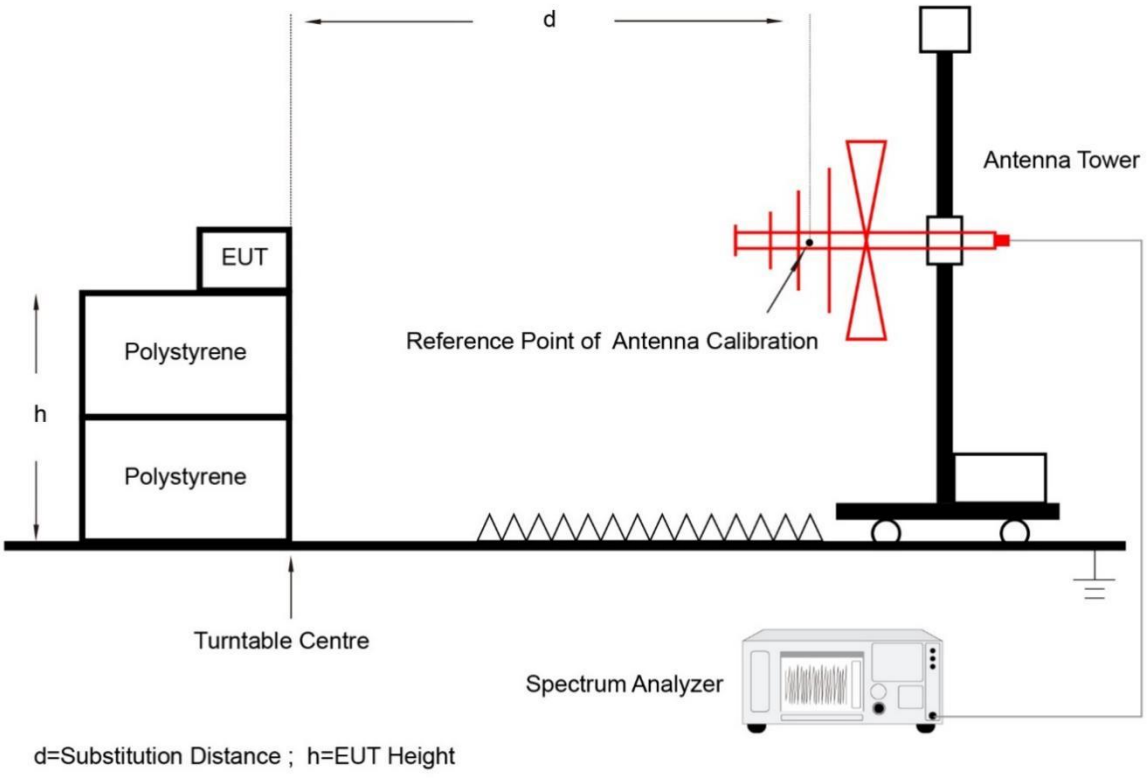
Compliance with the emission limits shall be demonstrated using an RMS Average detector.

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.

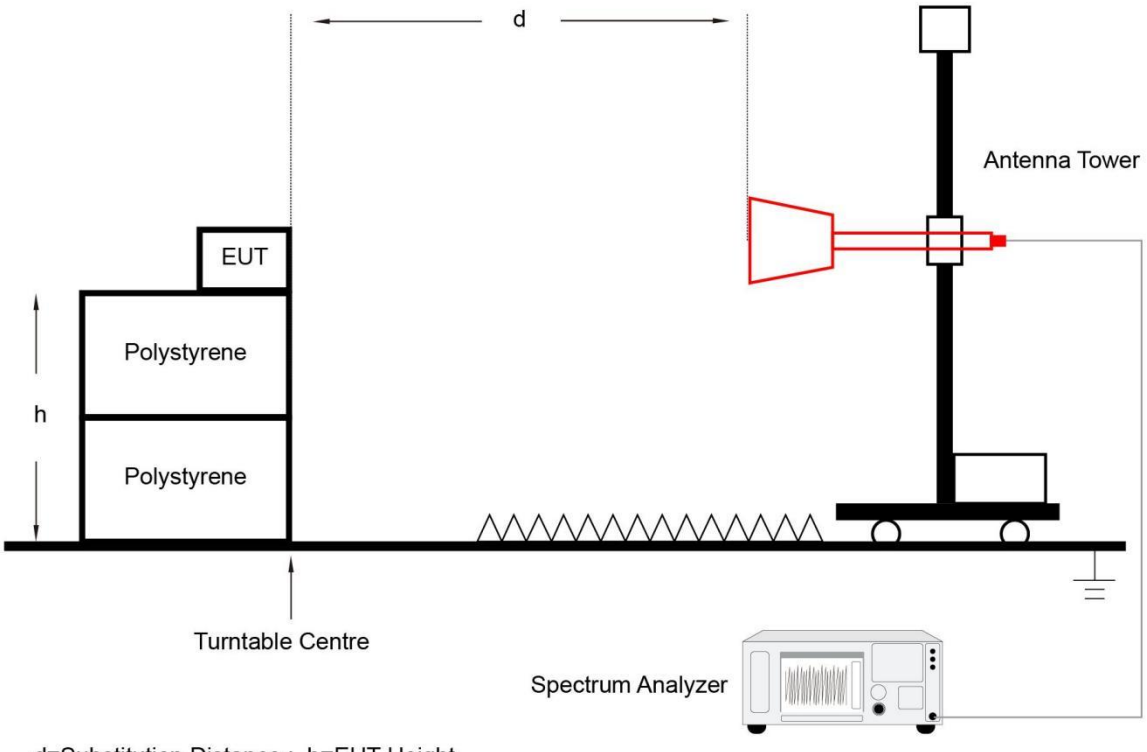
5.6.4. Test Setup

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.

Appendix A – Test Result

A.1 RF Output Power Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-09 ~ 2025-06-16	Test Mode	Mode 1

Frequency (MHz)	Conducted Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Test Result
	Port A			
126mW Power Level				
606.000	20.18	--	≤ 23.98	Pass
607.800	20.09	--	≤ 23.98	Pass
20mW Power Level				
653.200	11.31	11.61	≤ 13.01	Pass
657.000	11.13	11.43	≤ 13.01	Pass

Note 1: Limit = 10*Log (250mW) = 23.98 dBm.

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

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

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-09 ~ 2025-06-16	Test Mode	Mode 2

Frequency (MHz)	Conducted Output Power (dBm)		Total Conducted Output Power (dBm)	Total EIRP (dBm)	Limit (dBm)	Test Result
	Port A	Port B				
40mW Power Level						
606.000	17.22	17.26	20.25	-	≤ 23.98	Pass
607.800	17.18	17.17	20.19	-	≤ 23.98	Pass
8mW Power Level						
653.200	7.89	8.02	10.97	11.27	≤ 13.01	Pass
657.000	9.15	8.41	11.81	12.11	≤ 13.01	Pass

Note 1: Limit = 10*Log (250mW) = 23.98 dBm.

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

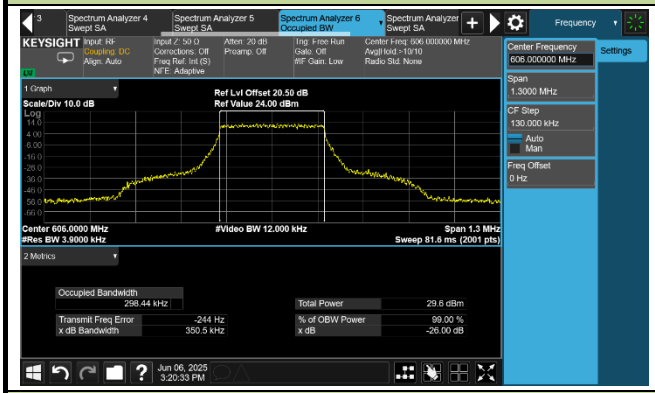
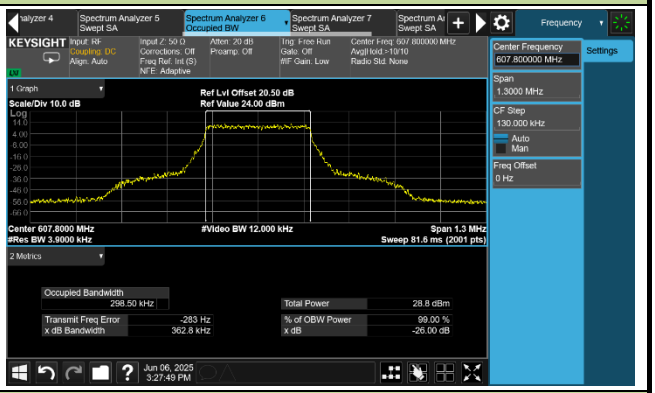
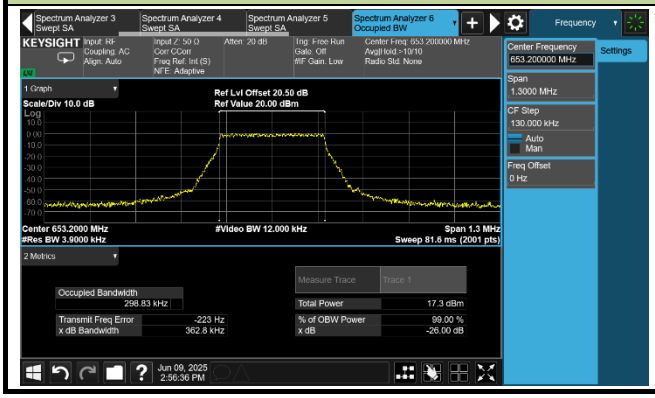
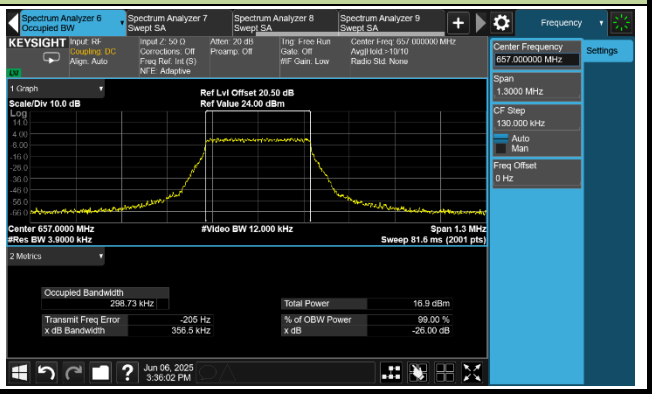
Note 3: Total Conducted Output Power (dBm) = $10*\log[10^{(\text{Port A}/10)} + 10^{(\text{Port B}/10)}]$ (dBm).

Note 4: Total EIRP (dBm) = Total Conducted Output Power (dBm) + Antenna Gain (dBi).

A.2 99% Occupied Bandwidth Test Result

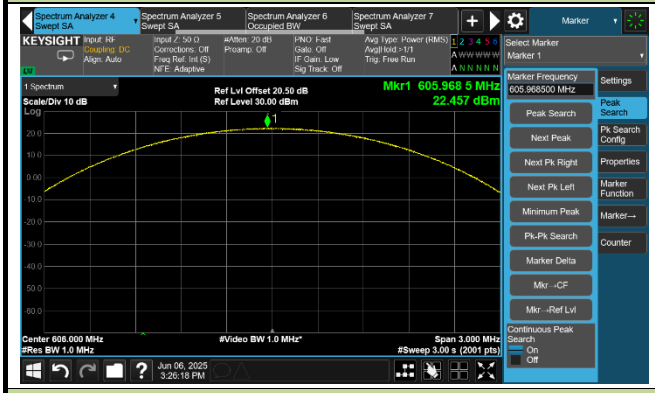
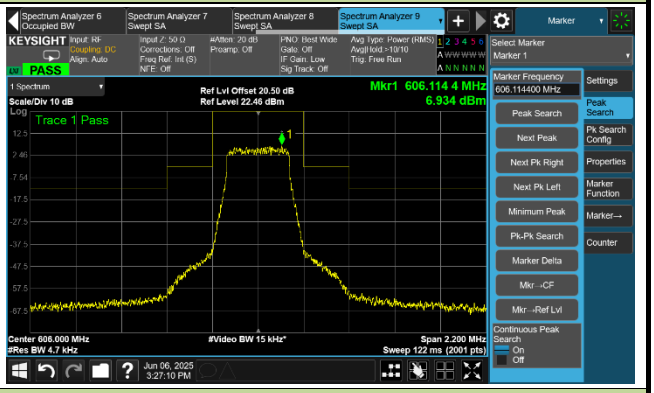
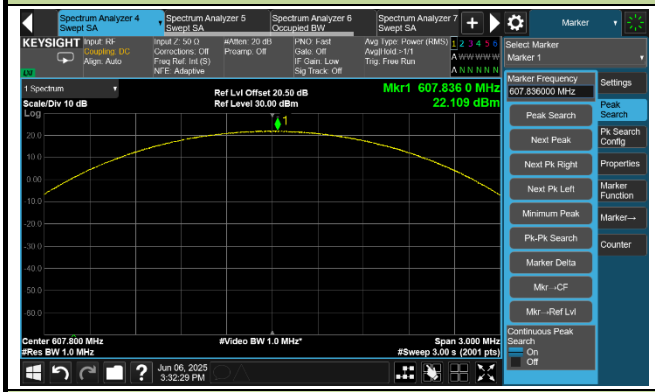
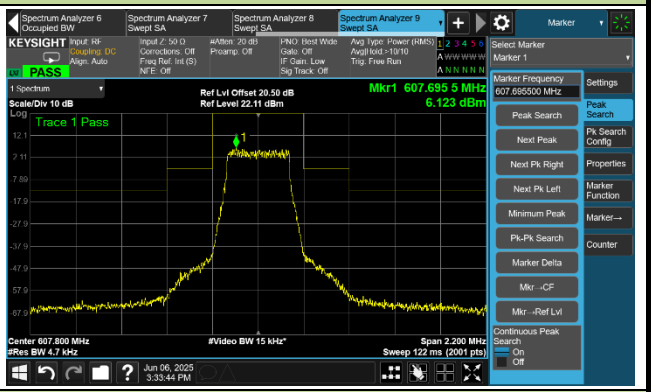
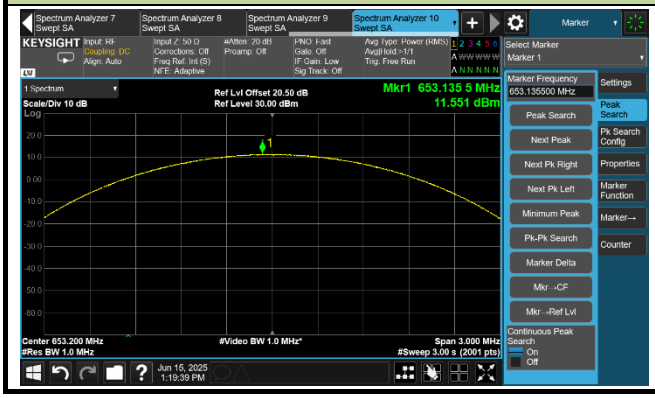
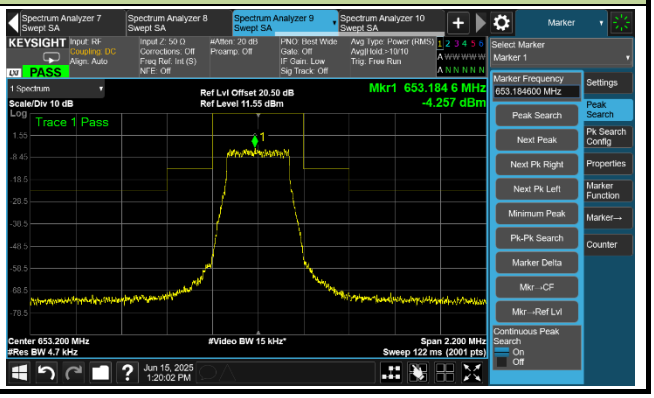
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-06 ~ 2025-06-09	Test Mode	Mode 1

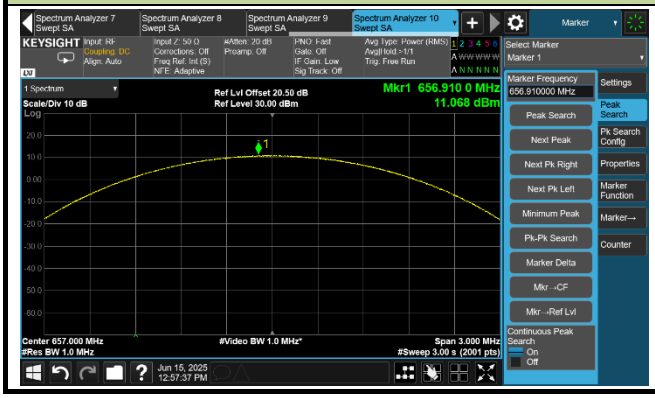
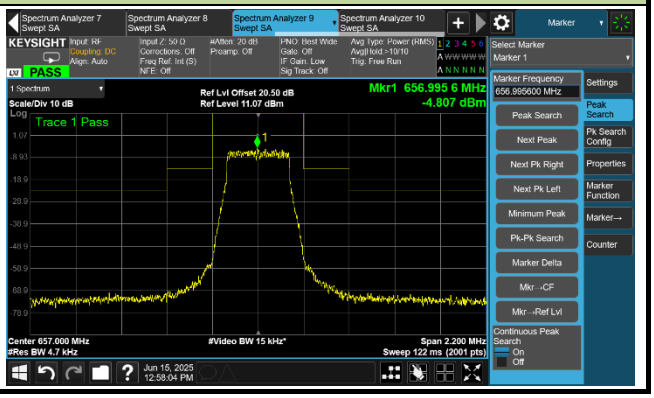
Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
606.000	298.44	< 6000	Pass
607.800	298.50	< 6000	Pass
653.200	298.83	< 6000	Pass
657.000	298.73	< 6000	Pass

99% Occupied Bandwidth	
606.000MHz	607.800MHz
	
653.200MHz	657.000MHz
	

A.3 Out of Band Emission Test Result

Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-06 ~ 2025-06-15	Test Mode	Mode 1

Port A	
Channel 606.000MHz	
Reference Level	Out of Band Emission
	
Channel 607.800MHz	
Reference Level	Out of Band Emission
	
Channel 653.200MHz	
Reference Level	Out of Band Emission
	

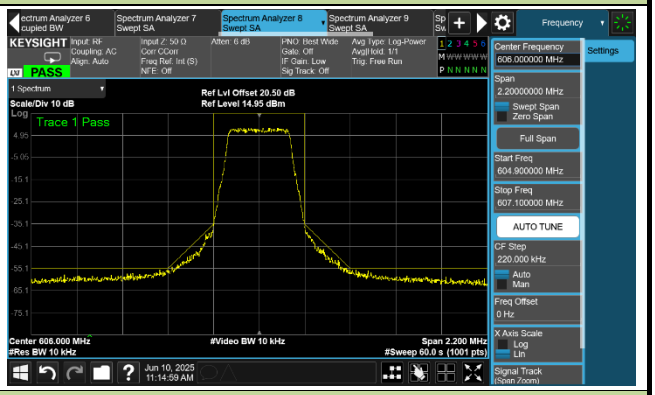
Port A	
Channel 657.000MHz	
Reference Level	Out of Band Emission
	

A.4 Emission Mask Test Result

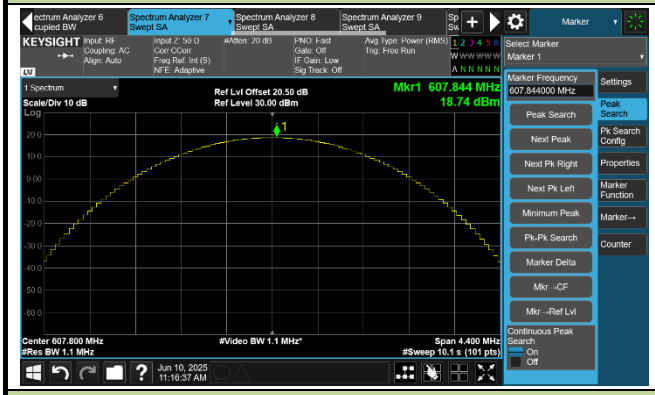
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-10 ~ 2025-06-15	Test Mode	Mode 1

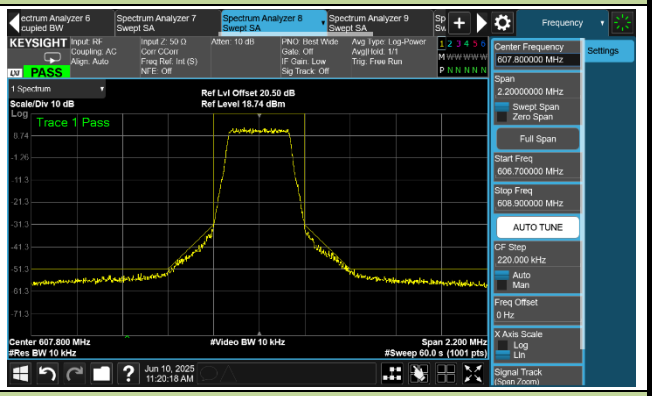
Port A

Channel 606.000MHz

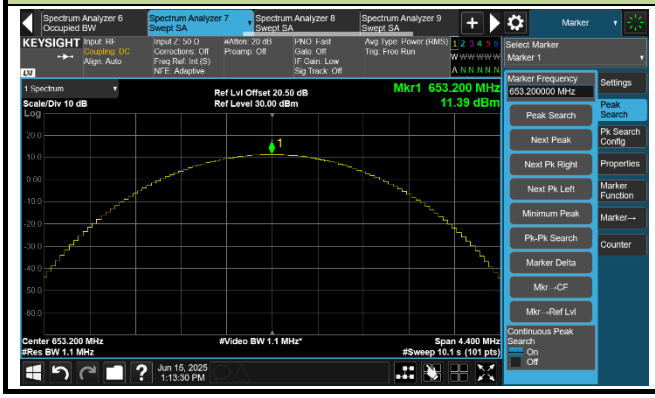


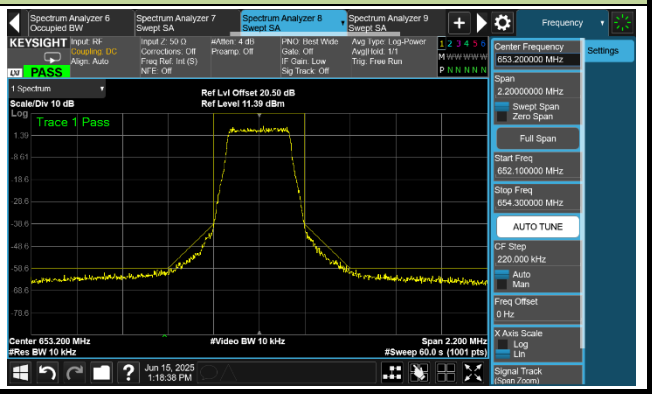
Channel 607.800MHz

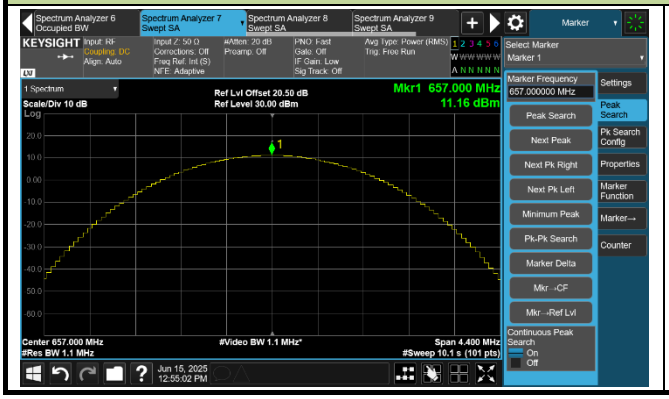
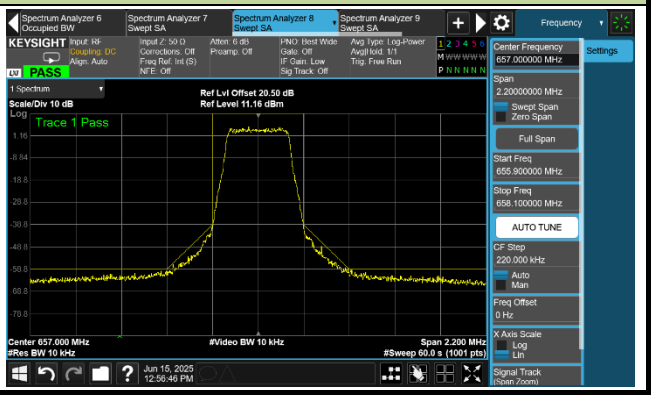




Channel 653.200MHz





Port A
Channel 657.000MHz
 

A.5 Radiated Spurious Emissions Test Result

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2025-06-13	Test Mode	Mode 1

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
606.000	53.770	-104.2	27.9	-76.3	-54.0	-22.3	Peak	Horizontal
	745.960	-99.7	33.9	-65.8	-54.0	-11.8	Peak	Horizontal
	97.800	-104.2	31.9	-72.3	-54.0	-18.3	Peak	Vertical
	589.790	-97.2	34.6	-62.6	-54.0	-8.6	Average	Vertical
	2014.600	-56.0	7.9	-48.1	-30.0	-18.1	Peak	Horizontal
	5881.000	-71.8	16.5	-55.3	-30.0	-25.3	Peak	Horizontal
	1817.800	-60.6	6.7	-53.9	-30.0	-23.9	Peak	Vertical
	6651.400	-71.5	20.0	-51.5	-30.0	-21.5	Peak	Vertical
607.800	51.050	-104.8	28.7	-76.1	-54.0	-22.1	Peak	Horizontal
	746.730	-98.9	33.9	-65.0	-54.0	-11.0	Peak	Horizontal
	53.280	-104.1	30.7	-73.4	-54.0	-19.4	Peak	Vertical
	588.720	-96.9	34.6	-62.3	-54.0	-8.3	Average	Vertical
	1215.400	-61.0	5.8	-55.2	-30.0	-25.2	Peak	Horizontal
	1823.200	-56.3	7.6	-48.7	-30.0	-18.7	Peak	Horizontal
	1823.200	-53.4	6.8	-46.6	-30.0	-16.6	Peak	Vertical
	6613.000	-73.1	19.7	-53.4	-30.0	-23.4	Peak	Vertical
653.200	200.620	-102.1	25.6	-76.5	-54.0	-22.5	Peak	Horizontal
	753.230	-100.1	34.0	-66.1	-54.0	-12.1	Peak	Horizontal
	97.610	-104.2	31.9	-72.3	-54.0	-18.3	Peak	Vertical
	586.590	-98.1	34.5	-63.6	-54.0	-9.6	Average	Vertical
	2468.200	-66.6	9.3	-57.3	-30.0	-27.3	Peak	Horizontal
	6553.000	-73.3	19.9	-53.4	-30.0	-23.4	Peak	Horizontal
	2188.000	-70.1	10.3	-59.8	-30.0	-29.8	Peak	Vertical
	6634.000	-72.0	19.7	-52.3	-30.0	-22.3	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: QP measurement was not performed when peak measure level was lower than the QP limit.

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	48.720	-104.8	29.4	-75.4	-54.0	-21.4	Peak	Horizontal
	748.670	-99.5	33.8	-65.7	-54.0	-11.7	Peak	Horizontal
	198.000	-101.0	29.7	-71.3	-54.0	-17.3	Peak	Vertical
	580.380	-97.2	34.5	-62.7	-54.0	-8.7	Average	Vertical
	2202.400	-69.5	10.4	-59.1	-30.0	-29.1	Peak	Horizontal
	6652.600	-72.0	19.6	-52.4	-30.0	-22.4	Peak	Horizontal
	2189.800	-70.0	10.4	-59.6	-30.0	-29.6	Peak	Vertical
	6906.400	-73.0	20.5	-52.5	-30.0	-22.5	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: QP measurement was not performed when peak measure level was lower than the QP limit.

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

Test Site	WZ-AC2	Test Engineer	Dick Shen
Test Date	2025-06-13	Test Mode	Mode 2

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
606.000	52.500	-104.1	28.2	-75.9	-54.0	-21.9	Peak	Horizontal
	716.370	-96.3	33.4	-62.9	-54.0	-8.9	Average	Horizontal
	525.860	-98.6	33.4	-65.2	-54.0	-11.2	Average	Vertical
	570.780	-96.0	34.4	-61.6	-54.0	-7.6	Average	Vertical
	1211.200	-61.7	5.9	-55.8	-30.0	-25.8	Peak	Horizontal
	5113.600	-71.2	15.2	-56.0	-30.0	-26.0	Peak	Horizontal
	2199.400	-68.7	10.1	-58.6	-30.0	-28.6	Peak	Vertical
	6659.800	-72.5	20.1	-52.4	-30.0	-22.4	Peak	Vertical
607.800	51.050	-104.6	28.7	-75.9	-54.0	-21.9	Peak	Horizontal
	725.590	-97.2	33.7	-63.5	-54.0	-9.5	Average	Horizontal
	486.580	-99.2	33.5	-65.7	-54.0	-11.7	Average	Vertical
	567.190	-97.1	34.3	-62.8	-54.0	-8.8	Average	Vertical
	1215.400	-62.5	5.8	-56.7	-30.0	-26.7	Peak	Horizontal
	6940.600	-73.0	21.1	-51.9	-30.0	-21.9	Peak	Horizontal
	1215.400	-63.4	5.2	-58.2	-30.0	-28.2	Peak	Vertical
	6658.600	-72.3	20.0	-52.3	-30.0	-22.3	Peak	Vertical
653.200	47.360	-104.4	29.6	-74.8	-54.0	-20.8	Peak	Horizontal
	565.150	-96.7	31.8	-64.9	-54.0	-10.9	Peak	Horizontal
	525.280	-97.2	33.4	-63.8	-54.0	-9.8	Average	Vertical
	576.210	-96.7	34.3	-62.4	-54.0	-8.4	Average	Vertical
	2449.000	-67.6	9.1	-58.5	-30.0	-28.5	Peak	Horizontal
	6970.600	-74.1	21.1	-53.0	-30.0	-23.0	Peak	Horizontal
	2189.200	-69.0	10.4	-58.6	-30.0	-28.6	Peak	Vertical
	6640.000	-72.6	19.8	-52.8	-30.0	-22.8	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: QP measurement was not performed when peak measure level was lower than the QP limit.

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	48.820	-105.0	29.3	-75.7	-54.0	-21.7	Peak	Horizontal
	742.660	-97.6	33.9	-63.7	-54.0	-9.7	Average	Horizontal
	530.330	-95.7	33.5	-62.2	-54.0	-8.2	Average	Vertical
	577.370	-99.5	34.4	-65.1	-54.0	-11.1	Average	Vertical
	1440.400	-68.5	8.8	-59.7	-30.0	-29.7	Peak	Horizontal
	6560.800	-72.9	20.1	-52.8	-30.0	-22.8	Peak	Horizontal
	2455.000	-63.0	9.0	-54.0	-30.0	-24.0	Peak	Vertical
	6640.600	-72.8	19.8	-53.0	-30.0	-23.0	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: QP measurement was not performed when peak measure level was lower than the QP limit.

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

Appendix B – Test Setup Photograph

Refer to “R25S1019045-UT” file.

Appendix C – EUT Photograph

Refer to “R25S1019045-UE” file.

The End