



RF MEASUREMENT REPORT

FCC ID: DD4ADTQK54

Applicant: Shure Incorporated

Product: Wireless Quad Transmitter

Model No.: ADTQ K54, ADTQ DC K54

Trade Mark: 

FCC Classification: Part 15 Wireless Microphone (DWM)

FCC Rule Part(s): Part 15 Subpart C (Section 15.236)

Application Type: Class II Permissive Change

Result: Complies

Received Date: 2025-05-16

Test Date: 2025-05-25 ~ 2025-06-19

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



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.

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Revision History

Report No.	Version	Description	Issue Date	Note
R25S1018044-U204	V01	Initial Report	2025-06-23	Valid

Note: This product has obtained FCC approval (FCC ID: DD4ADTQK54), original RF report no. is 2406RSU021-U5. 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).

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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 Quad Transmitter
Model No.	ADTQ K54, ADTQ DC K54
Serial No.	2DE31788237
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	ADTQ DC: AC Power Input (100~240V AC) & DC Power Input (12~48V)
	ADTQ: 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: ADTQ K54 and ADTQ DC K54 are completely same except power supply difference, ADTQ K54 supports AC power supply, while ADTQ 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	4-channel Wideband (WMAS)
Frequency Range	606 ~ 608 MHz & 657 ~ 663 MHz
Declared Power Level	Low & Mid & High
Type of Modulation	4-channel Wideband: OFDM
Declared Occupied Bandwidth	4-channel Wideband (WMAS): 850 kHz
Channel Spacing	25 kHz
RF Connector Type	BNC

1.6. Working Frequencies

Bottom Channel (MHz)	Middle Channel (MHz)	Top Channel (MHz)
4-channel wideband		
606 ~ 608 MHz Frequency Band		
606.000	N/A	607.600
653 ~ 657 MHz Frequency Band		
657.000	N/A	662.600

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 4-Channel wideband (Power Level = 40mW & 20mW)
Mode 2: Transmit at K54 Band by 4-channel wideband, spatial diversity (Power Level = 20mW & 10mW)
Note: Mode 1 and Mode 2 have been updated based on Mode 7 and Mode 9 from the original report (2406RSU021-U5), respectively, including updates to the frequency range and power level.

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 15.236
- KDB 206256 D01v03
- ANSI C63.10-2013
- 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% ($U=2U_c(y)$):	
2.5dB	
Output Power	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
1.5dB	
Occupied Bandwidth	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
3.2%	

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
15.236(f) (1&2)	99% Occupied Bandwidth	Conducted	Pass
15.236(g) (1&2&3)	Emission Mask		Pass
15.236(d)(1)(2)	RF Output Power		Pass
15.236(g)(4)	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. 99% Occupied Bandwidth Measurement

5.2.1. Test Limit

One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.

A wireless multichannel audio system may have an operating bandwidth not exceeding 6 megahertz and must have a mode of operation in which it is capable of operating with at least three audio channels per megahertz. For wireless multichannel audio systems operating in the TV bands (channels 2-36), the 6 megahertz (or less) channel must fall entirely within a single TV channel.

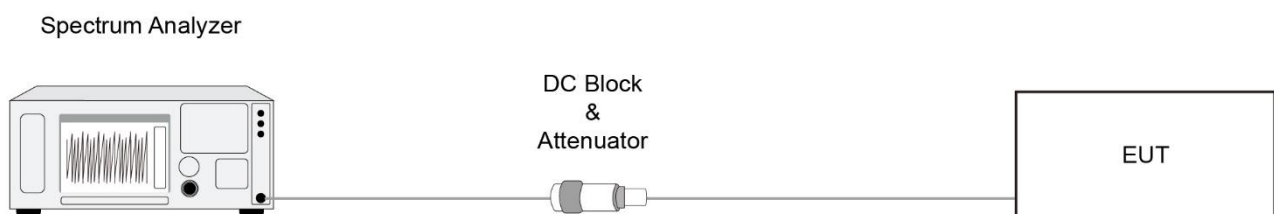
5.2.2. Test Procedure

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 $\geq$ 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. Emission Mask Measurement

5.3.1. Test Limit

(1) Analog systems. Emissions within the band from $2.5 \times B$ below to $2.5 \times B$ above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask 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 § 15.38).

(2) Digital systems. Emissions within the band from $2.5 \times B$ below to $2.5 \times B$ above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask 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 § 15.38).

(3) Wireless Multichannel Audio Systems. Emissions within the band from $2.5 \times B$ below to $2.5 \times B$ above the carrier frequency, where B is the channel bandwidth, shall comply with the emission mask 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 § 15.38).

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

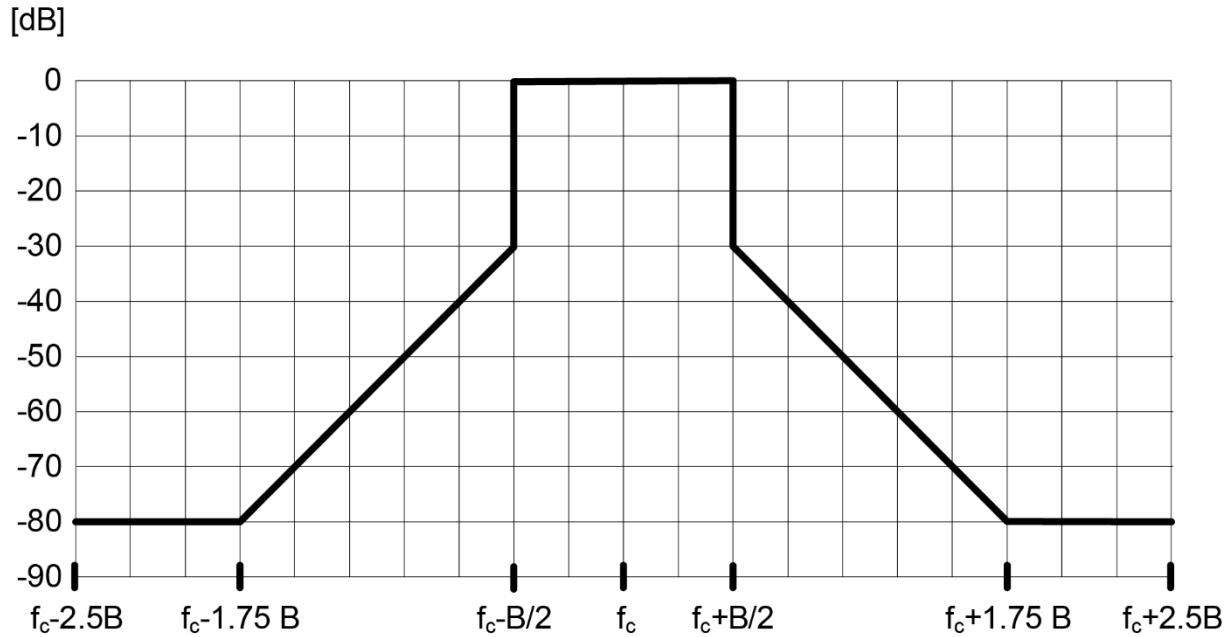


Figure 2: Transmit spectral power mask for equipment employing digital modulation, except WMAS, RBW = 1 kHz

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.

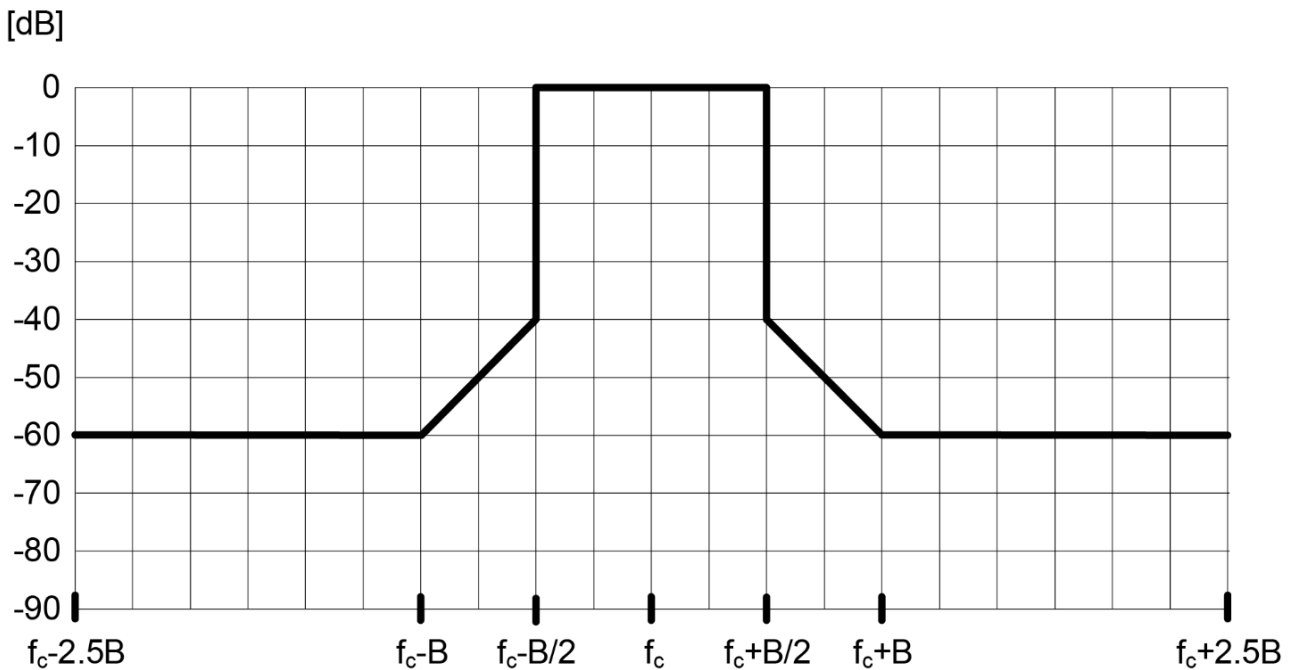


Figure 3: Transmit spectral power mask for WMAS, RBW = 100 kHz

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 $c = 10 \times \log_{10} (\text{RBW}/100 \text{ kHz})$ for correction.

Correction Factor for different B and applicable RBW

B	RBW, VBW	c = correction factor
$B < 2 \text{ MHz}$	10 kHz	-10dB
$2 \text{ MHz} \leq B < 5 \text{ MHz}$	25 kHz	-7dB
$5 \text{ Hz} \leq B \leq 20\text{MHz}$	100 kHz	0dB

5.3.2. Test Procedure

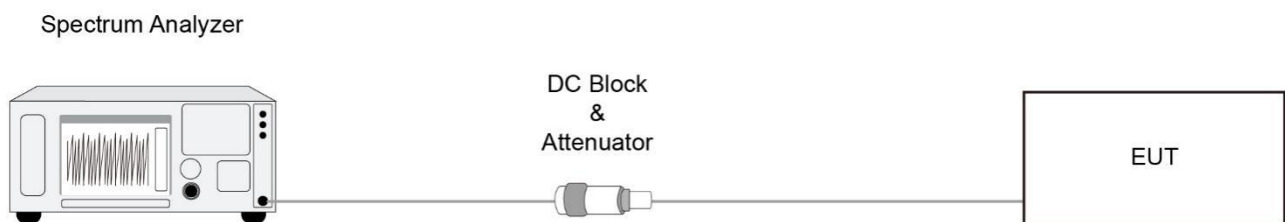
EN 300 422-1 V2.2.1 clause 5.4.3.2.

5.3.3. 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.

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Output Power Measurement

5.4.1. Test Limit

(1) In the bands allocated and assigned for broadcast television:

- (i) Wireless microphones: 50 mW EIRP.
 - (ii) Wireless multichannel audio systems with a bandwidth up to 1 MHz: 50 mW EIRP.
 - (iii) Wireless multichannel audio systems with a bandwidth greater than 1 MHz: 100 mW EIRP.
- (2) In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

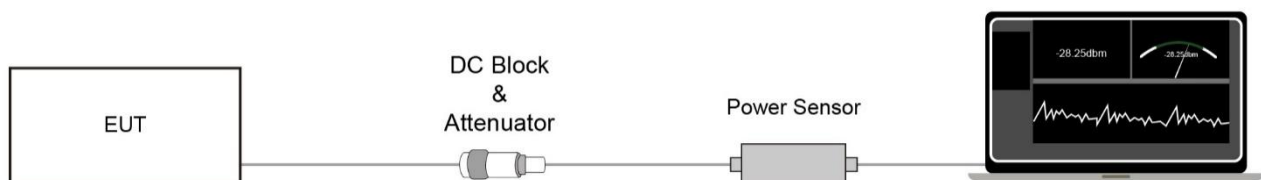
5.4.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.2.3.2

5.4.3. 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.

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Radiated Spurious Emission Measurement

5.5.1. Test Limit

Spurious emission limits. Emissions outside of the emission masks listed in paragraphs (g)(1) through (g)(3) 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 § 15.38).

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	$F_c + 2.5B \leq f \leq F_c + 4B$: 1kHz $F_c + 4B < f \leq F_c + 10B$: 10kHz $f > F_c + 10B$: 100kHz $f < F_c - 10B$: 100kHz $F_c - 10B \leq f < F_c - 4B$: 10kHz $F_c - 4B \leq f \leq F_c - 2.5B$: 1kHz
Except:		
47MHz to 74MHz 87.5MHz to 118MHz	-54dBm	100kHz
174MHz to 230MHz 470MHz to 862MHz	-36dBm	$F_c + 2.5B \leq f \leq F_c + 4B$: 1kHz $F_c + 4B < f \leq F_c + 10B$: 10kHz $f > F_c + 10B$: 100kHz $f < F_c - 10B$: 100kHz $F_c - 10B \leq f < F_c - 4B$: 10kHz $F_c - 4B \leq f \leq F_c - 2.5B$: 1kHz
$1\text{GHz} < f \leq F_{\text{upper}}$	-30dBm	$F_c + 2.5B \leq f \leq F_c + 10B$: 30kHz $F_c + 10B < f \leq F_c + 12B$: 300kHz $f > F_c + 12B$: 1MHz $f < F_c - 12B$: 1MHz $F_c - 12B \leq f < F_c - 10B$: 300kHz $F_c - 10B \leq f \leq F_c - 2.5B$: 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	30MHz	3GHz
600 MHz - 3 GHz	30MHz	5th harmonic of the operating frequency

5.5.2. Test Procedure

ETSI EN 300 422-1 V2.2.1 clause 5.4.4

5.5.3. Test Setting

Table 1 - RBW as a function of frequency

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

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

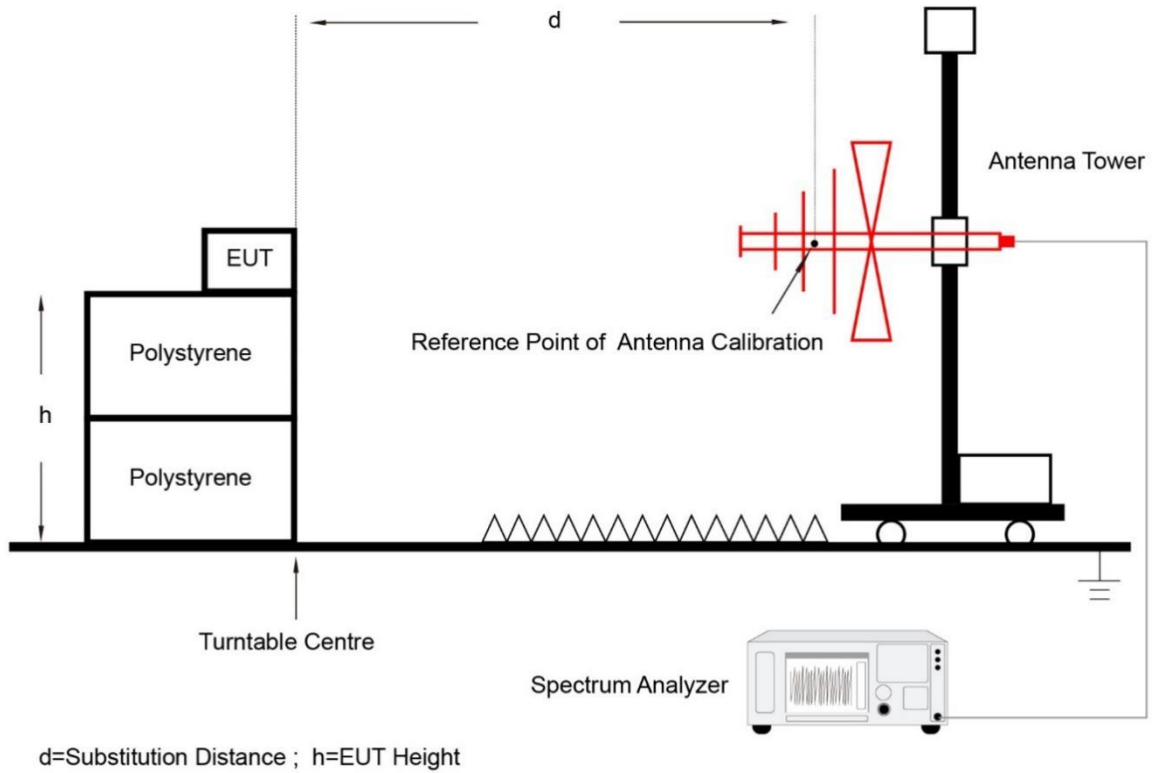
All the emissions shall be demonstrated using a QP detector below 1 GHz and an RMS Average detector above 1 GHz.

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

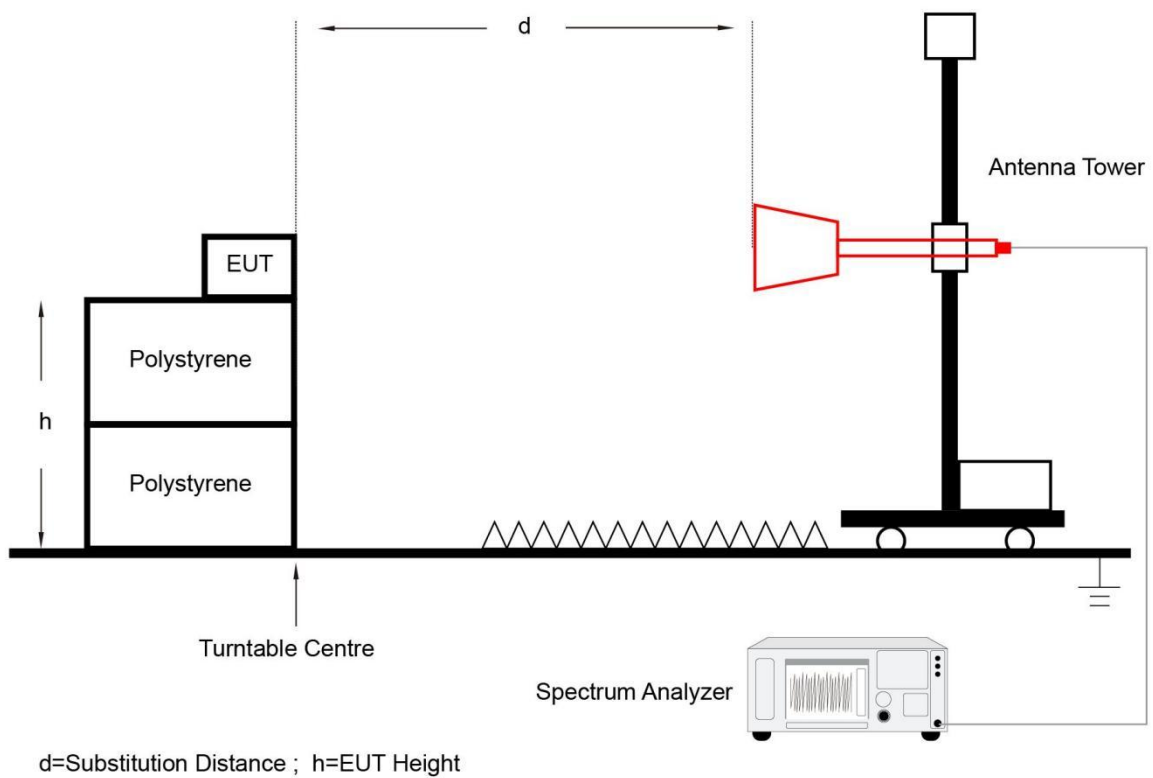
at each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement.

5.5.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.5.5. Test Result

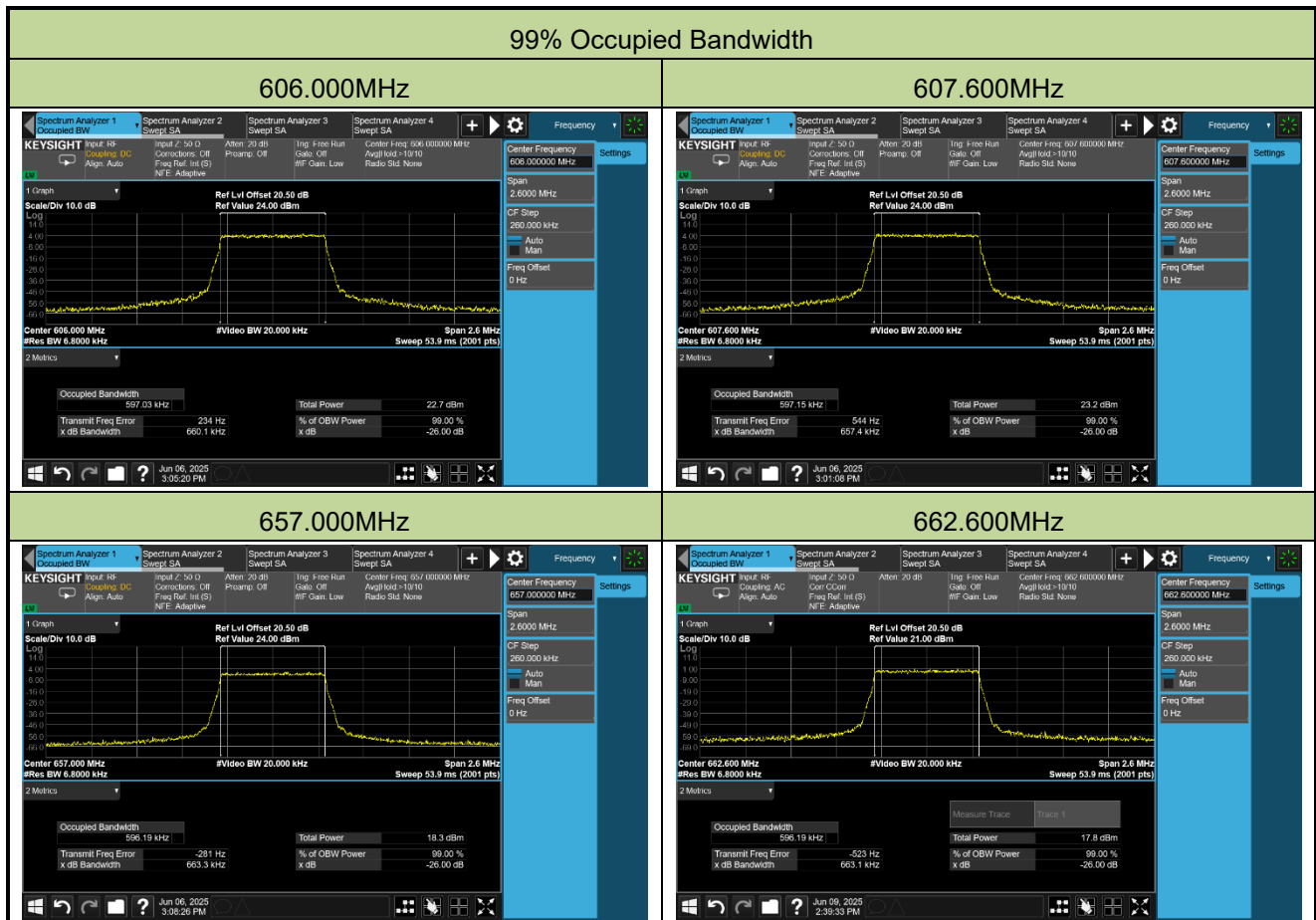
Refer to Appendix A.4.

Appendix A – Test Result

A.1 99% Occupied Bandwidth Test Result

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

Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
606.000	597.03	< 6000	Pass
607.600	597.15	< 6000	Pass
657.000	596.19	< 6000	Pass
662.600	596.19	< 6000	Pass

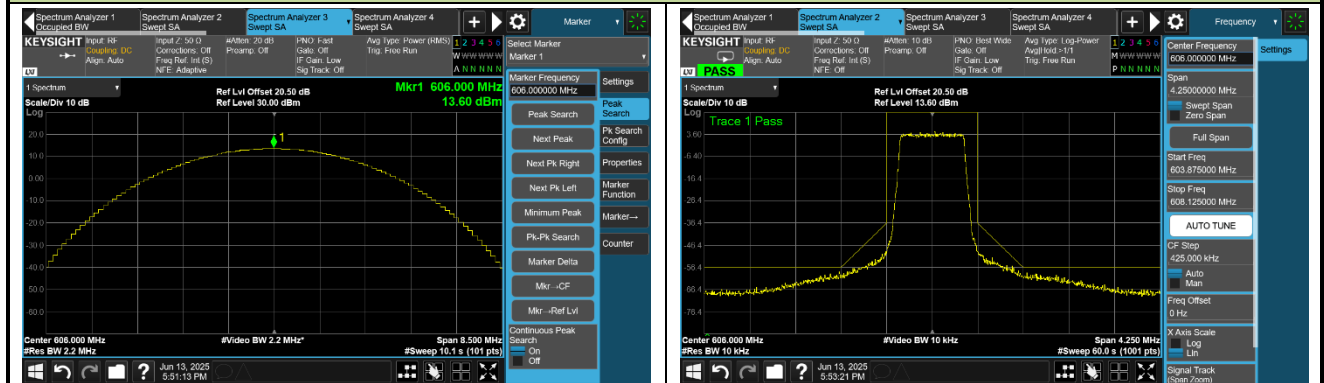


A.2 Emission Mask Test Result

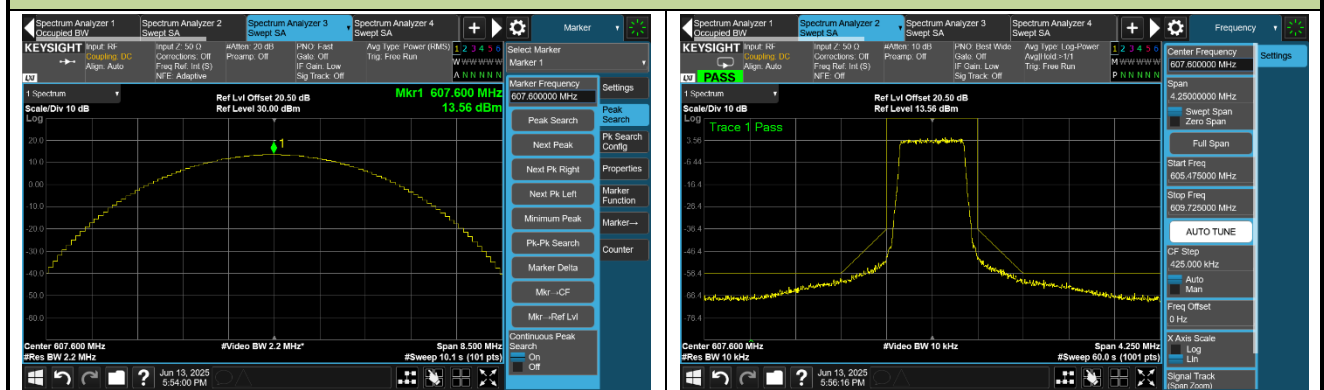
Test Site	WZ-SR5	Test Engineer	Lynn Yang
Test Date	2025-06-13	Test Mode	Mode 1

Port A

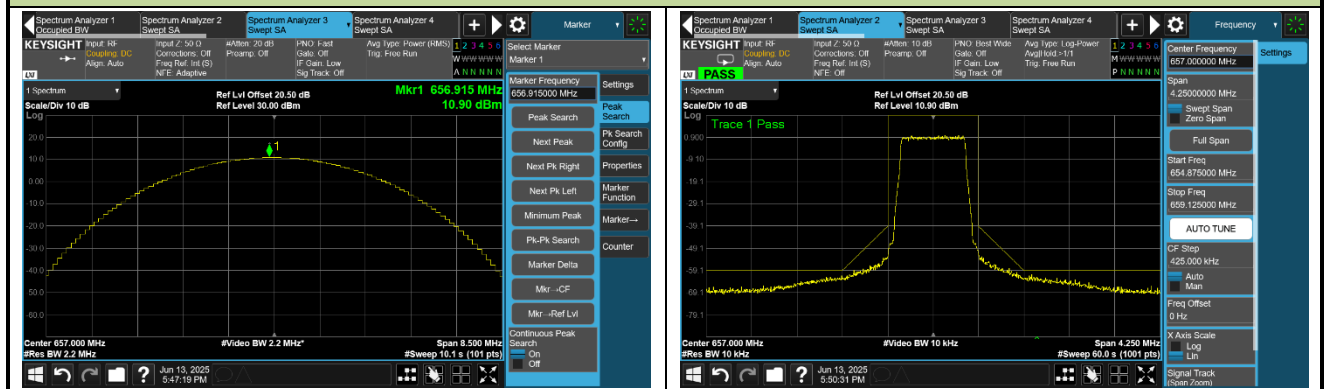
Channel 606.000MHz



Channel 607.600MHz

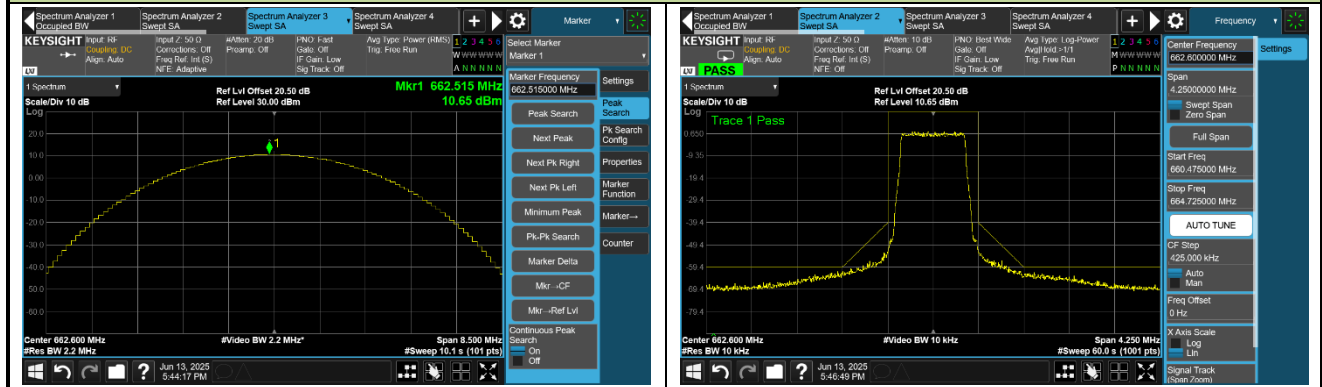


Channel 657.000MHz



Port A

Channel 662.600MHz



A.3 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)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Test Result
	Port A				
40mW Power Level					
606.000	15.62	0.30	15.92	≤ 16.99	Pass
607.600	15.16	0.30	15.46	≤ 16.99	Pass
20mW Power Level					
657.000	12.23	0.30	12.53	≤ 13.01	Pass
662.600	11.68	0.30	11.98	≤ 13.01	Pass

Note 1: Limit = $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$.

Note 2: Limit = $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$.

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)	Antenna Gain (dBi)	Total EIRP (dBm)	Limit (dBm)	Test Result
	Port A	Port D					
20mW Power Level							
606.000	11.82	13.08	15.51	0.30	15.81	≤ 16.99	Pass
607.600	11.85	13.12	15.54	0.30	15.84	≤ 16.99	Pass
10mW Power Level							
657.000	9.10	9.21	12.17	0.30	12.47	≤ 13.01	Pass
662.600	8.89	8.98	11.95	0.30	12.25	≤ 13.01	Pass

Note 1: Limit = $10 \cdot \log(50\text{mW}) = 16.99 \text{ dBm}$.

Note 2: Limit = $10 \cdot \log(20\text{mW}) = 13.01 \text{ dBm}$.

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

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

A.4 Radiated Spurious Emission Test Result

Test Site	WZ-AC2	Test Engineer	Ajin Fan & Lucas Wang
Test Date	2025-05-25 ~ 2025-06-19	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	193.830	-101.5	25.0	-76.5	-54.0	-22.5	Peak	Horizontal
	729.180	-100.8	33.9	-66.9	-54.0	-12.9	Peak	Horizontal
	198.000	-101.1	29.7	-71.4	-54.0	-17.4	Peak	Vertical
	675.920	-99.6	35.4	-64.2	-54.0	-10.2	Peak	Vertical
	1212.400	-51.4	5.9	-45.5	-30.0	-15.5	Peak	Horizontal
	1818.400	-53.6	7.5	-46.1	-30.0	-16.1	Peak	Horizontal
	1212.400	-60.6	5.2	-55.4	-30.0	-25.4	Peak	Vertical
	1818.400	-51.1	6.7	-44.4	-30.0	-14.4	Peak	Vertical
607.600	197.810	-103.8	25.6	-78.2	-54.0	-24.2	Peak	Horizontal
	693.190	-101.4	34.1	-67.3	-54.0	-13.3	Peak	Horizontal
	198.000	-101.2	29.7	-71.5	-54.0	-17.5	Peak	Vertical
	683.490	-98.3	35.8	-62.5	-54.0	-8.5	Peak	Vertical
	1216.000	-53.6	5.8	-47.8	-30.0	-17.8	Peak	Horizontal
	1822.600	-57.3	7.6	-49.7	-30.0	-19.7	Peak	Horizontal
	1215.400	-57.9	5.2	-52.7	-30.0	-22.7	Peak	Vertical
	1822.600	-49.5	6.8	-42.7	-30.0	-12.7	Peak	Vertical
653.400	223.810	-103.0	26.8	-76.2	-54.0	-22.2	Peak	Horizontal
	728.300	-101.1	33.9	-67.2	-54.0	-13.2	Peak	Horizontal
	198.000	-100.1	29.7	-70.4	-54.0	-16.4	Peak	Vertical
	485.900	-95.2	33.4	-61.8	-54.0	-7.8	Peak	Vertical
	2203.000	-68.4	10.4	-58.0	-30.0	-28.0	Peak	Horizontal
	6954.400	-72.7	21.1	-51.6	-30.0	-21.6	Peak	Horizontal
	2192.200	-68.6	10.3	-58.3	-30.0	-28.3	Peak	Vertical
	6667.600	-71.5	19.7	-51.8	-30.0	-21.8	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
662.600	526.450	-102.3	31.2	-71.1	-54.0	-17.1	Peak	Horizontal
	807.550	-101.0	35.3	-65.7	-54.0	-11.7	Peak	Horizontal
	495.600	-95.9	33.6	-62.3	-54.0	-8.3	QP	Vertical
	573.100	-96.0	34.4	-61.6	-54.0	-7.6	Peak	Vertical
	2288.800	-69.3	10.5	-58.8	-30.0	-28.8	Peak	Horizontal
	6573.400	-71.4	19.8	-51.6	-30.0	-21.6	Peak	Horizontal
	2832.400	-68.9	9.7	-59.2	-30.0	-29.2	Peak	Vertical
	6634.000	-72.8	19.7	-53.1	-30.0	-23.1	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	Ajin Fan & Lucas Wang
Test Date	2025-05-25 ~ 2025-06-19	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	483.570	-98.5	30.5	-68.0	-54.0	-14.0	QP	Horizontal
	709.430	-94.9	33.9	-61.0	-54.0	-7.0	Peak	Horizontal
	477.670	-95.6	33.2	-62.4	-54.0	-8.4	Peak	Vertical
	690.290	-97.9	35.7	-62.2	-54.0	-8.2	Peak	Vertical
	1213.000	-53.0	5.9	-47.1	-30.0	-17.1	Peak	Horizontal
	1817.800	-54.8	7.5	-47.3	-30.0	-17.3	Peak	Horizontal
	1211.800	-61.2	5.2	-56.0	-30.0	-26.0	Peak	Vertical
	1818.400	-51.6	6.7	-44.9	-30.0	-14.9	Peak	Vertical
607.600	512.910	-99.4	31.0	-68.4	-54.0	-14.4	QP	Horizontal
	635.910	-94.9	32.7	-62.2	-54.0	-8.2	Peak	Horizontal
	486.970	-97.3	33.5	-63.8	-54.0	-9.8	Peak	Vertical
	706.950	-100.9	36.4	-64.5	-54.0	-10.5	Peak	Vertical
	1214.800	-53.6	5.9	-47.7	-30.0	-17.7	Peak	Horizontal
	1823.200	-50.9	7.6	-43.3	-30.0	-13.3	Peak	Horizontal
	1215.400	-57.6	5.2	-52.4	-30.0	-22.4	Peak	Vertical
	1822.600	-51.6	6.8	-44.8	-30.0	-14.8	Peak	Vertical
653.400	624.200	-99.0	32.4	-66.6	-54.0	-12.6	QP	Horizontal
	698.320	-96.2	34.1	-62.1	-54.0	-8.1	Peak	Horizontal
	613.570	-97.3	34.7	-62.6	-54.0	-8.6	Peak	Vertical
	680.440	-97.9	35.6	-62.3	-54.0	-8.3	Peak	Vertical
	2196.400	-70.2	10.2	-60.0	-30.0	-30.0	Peak	Horizontal
	6412.000	-72.0	18.3	-53.7	-30.0	-23.7	Peak	Horizontal
	2203.000	-69.0	10.0	-59.0	-30.0	-29.0	Peak	Vertical
	5083.000	-70.7	14.7	-56.0	-30.0	-26.0	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.

Test Channel (MHz)	Frequency (MHz)	Reading Level (dBm)	Substitution Factor (dB)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector	Polarization
662.600	471.060	-91.5	30.4	-61.1	-54.0	-7.1	Peak	Horizontal
	520.920	-92.6	31.2	-61.4	-54.0	-7.4	Peak	Horizontal
	501.610	-94.2	33.4	-60.8	-54.0	-6.8	Peak	Vertical
	587.360	-94.7	34.5	-60.2	-54.0	-6.2	Peak	Vertical
	1504.000	-67.4	8.9	-58.5	-30.0	-28.5	Peak	Horizontal
	6590.200	-71.3	19.6	-51.7	-30.0	-21.7	Peak	Horizontal
	1648.000	-67.9	8.7	-59.2	-30.0	-29.2	Peak	Vertical
	6567.400	-70.6	19.1	-51.5	-30.0	-21.5	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.

Appendix B - Test Setup Photograph

Refer to "R25S1018044-UT" file.

Appendix C - EUT Photograph

Refer to "R25S1018044-UE" file.

_____ The End _____