



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2510DPC44G
FCC ID : 2AFZZPC44G
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Sep. 05, 2025 ~ Sep. 16, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR582814C	Rev. 01	Initial issue of report	Sep. 28, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Conducted Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 2.49 dB at 2483.51 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 15.66 dB at 0.592 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2510DPC44G
FCC ID	2AFZZPC44G
IMEI Code	Conducted: 868972080023063/868972080023071 Conduction: 868972080042345/868972080042352 Radiation: 868972080028328/868972080028336
HW Version	1351P2502
SW Version	Xiaomi HyperOS 3.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	<MIMO Ant.12+7> 802.11b : 25.57 dBm (0.3606 W) 802.11g : 25.88 dBm (0.3873 W) 802.11n HT20 : 26.58 dBm (0.4550 W) 802.11n HT40 : 27.29 dBm (0.5358 W) 802.11ax HE20 : 26.52 dBm (0.4487 W) 802.11ax HE40 : 27.18 dBm (0.5224 W) 802.11be EHT20 : 26.69 dBm (0.4667 W) 802.11be EHT40 : 27.50 dBm (0.5623 W)
99% Occupied Bandwidth	<Ant.12/7> 802.11b : 13.24MHz 802.11g : 17.08MHz 802.11be EHT20 : 19.21MHz 802.11be EHT40 : 38.63MHz
Antenna Type / Gain	<Ant.12> PIFA Antenna type with gain -1.9 dBi <Ant.7> PIFA Antenna type with gain -1.9 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)

Note:

1. The device supports WLAN MIMO CDD mode.
2. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power.
3. For 802.11n/11ax/11be mode, the whole testing has assessed only 802.11be EHT20/EHT40 by referring to the higher output power.
4. 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power/PSD > partial RU, therefore the full RU perform full, and partial RU verify bandedge/spurious of RSE.
5. 802.11be support OFDMA for small size RU, 52Tone + 26 Tone or 106Tone + 26Tone, test combination as below,
 - a. For Low channel, 52Tone_Index38 + 26Tone_Index1 and 106Tone_Index53 + 26Tone_Index4
 - b. For High channel, 52Tone_Index39 + 26Tone_Index7 and 106Tone_Index54 + 26Tone_Index4
6. The worse cases of RSE for partial RU and small size RU are shown in this report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ 03CH01-SZ	CN1256	421272

Test data subcontracted: Conducted test cases in section 3.1~3.4 and RSE in section 3.6 of this report.

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH01-SZ	AUDIX	E3	6.2009-8-24



1.8 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

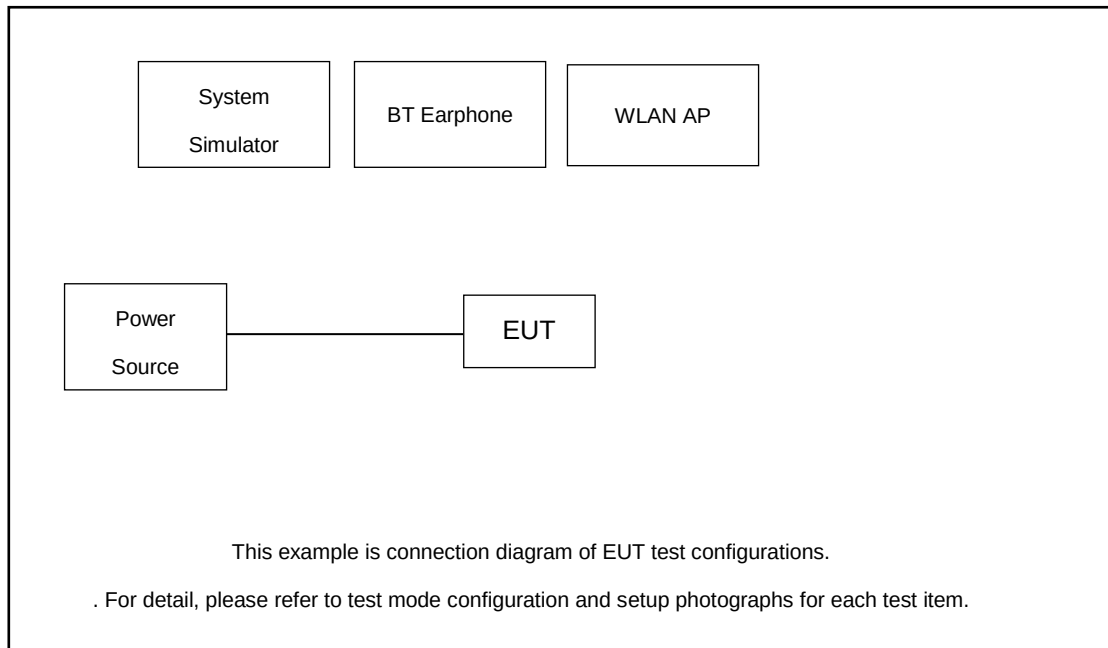
MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11be EHT20	MCS0
802.11be EHT40	MCS0

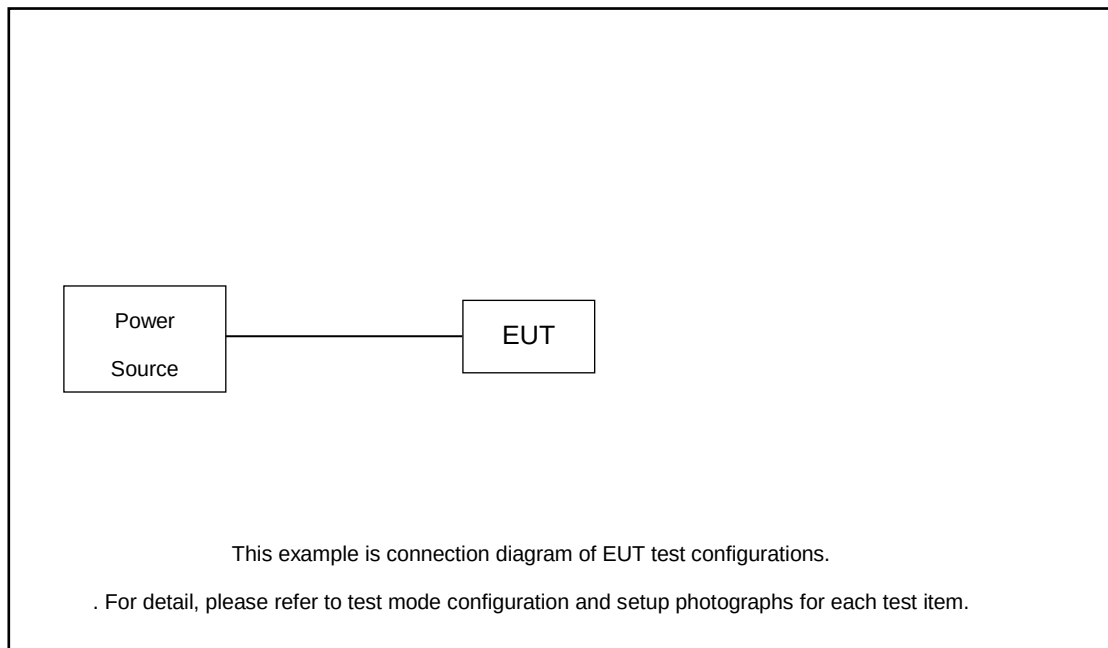
Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 1(Charging from Adapter1)
Remark: For Radiated Test Cases, The tests were performed with Adapter 1 and USB Cable 1.	

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.3 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.3 + 10 = 11.3 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

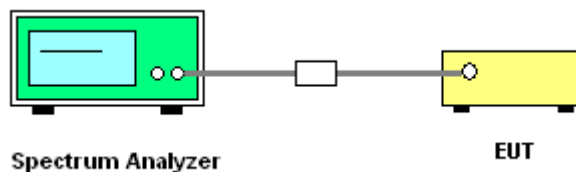
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. Detector = Peak. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

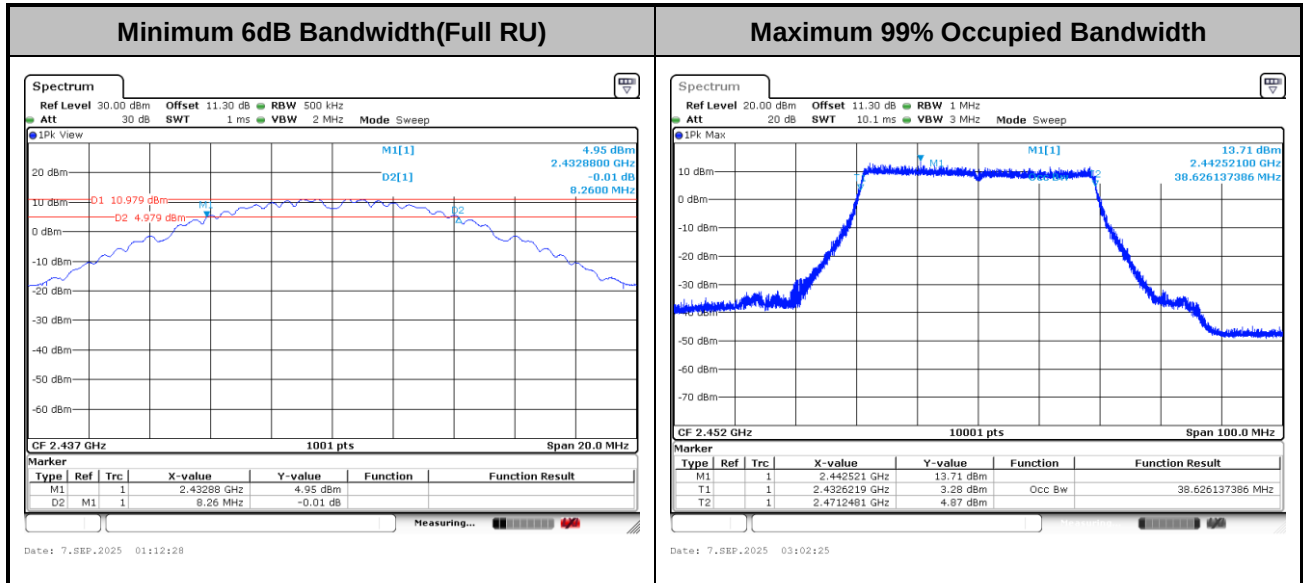
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

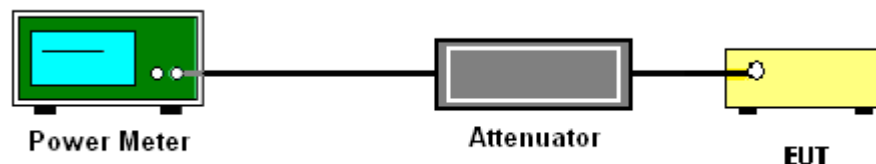
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.1.2 PKPM1 Peak power meter or ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01:

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

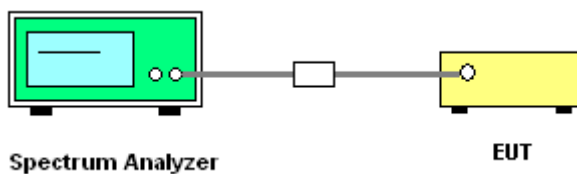
Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB, where N_{ANT} is the number of outputs.

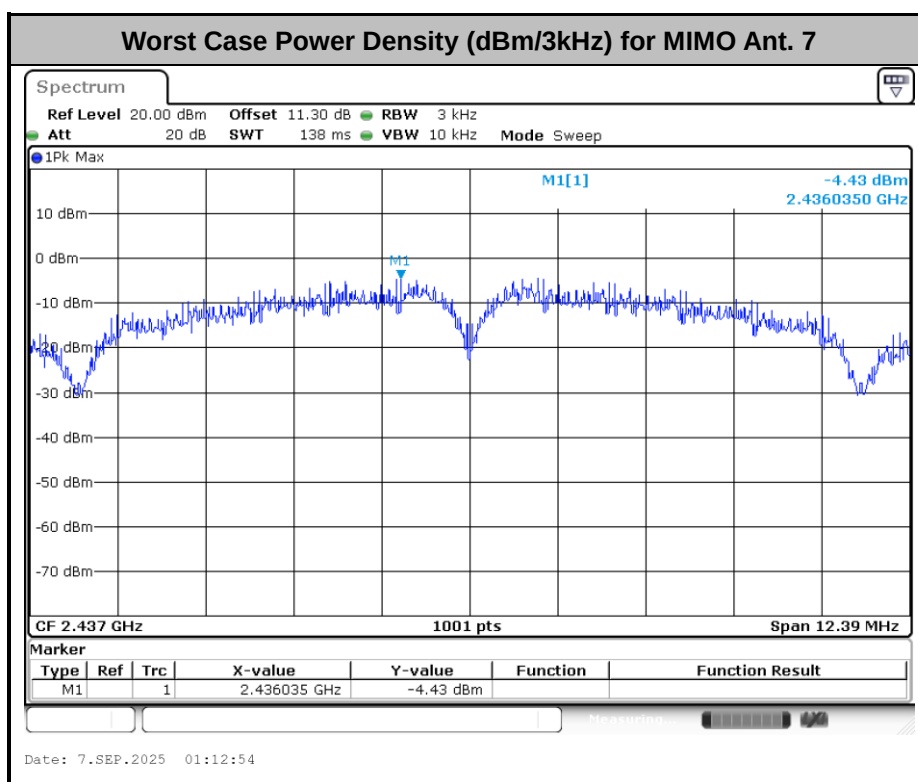
The measurement on each individual output were performed with the same span and number on each individual output. The quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

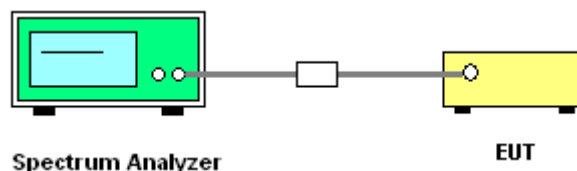
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.11.3
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



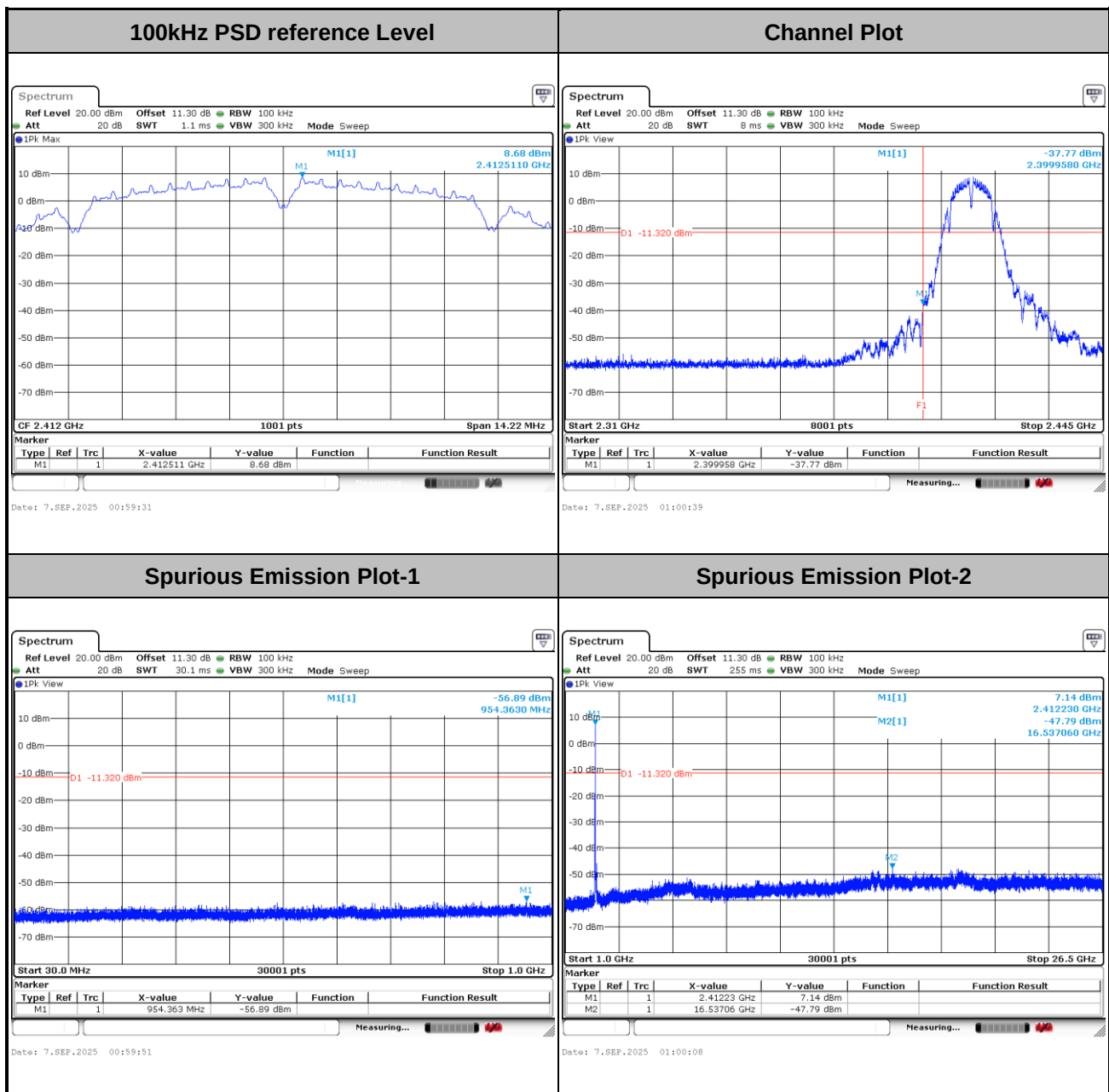


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Qingsheng He	Temperature :	24~26°C
		Relative Humidity :	50~53%

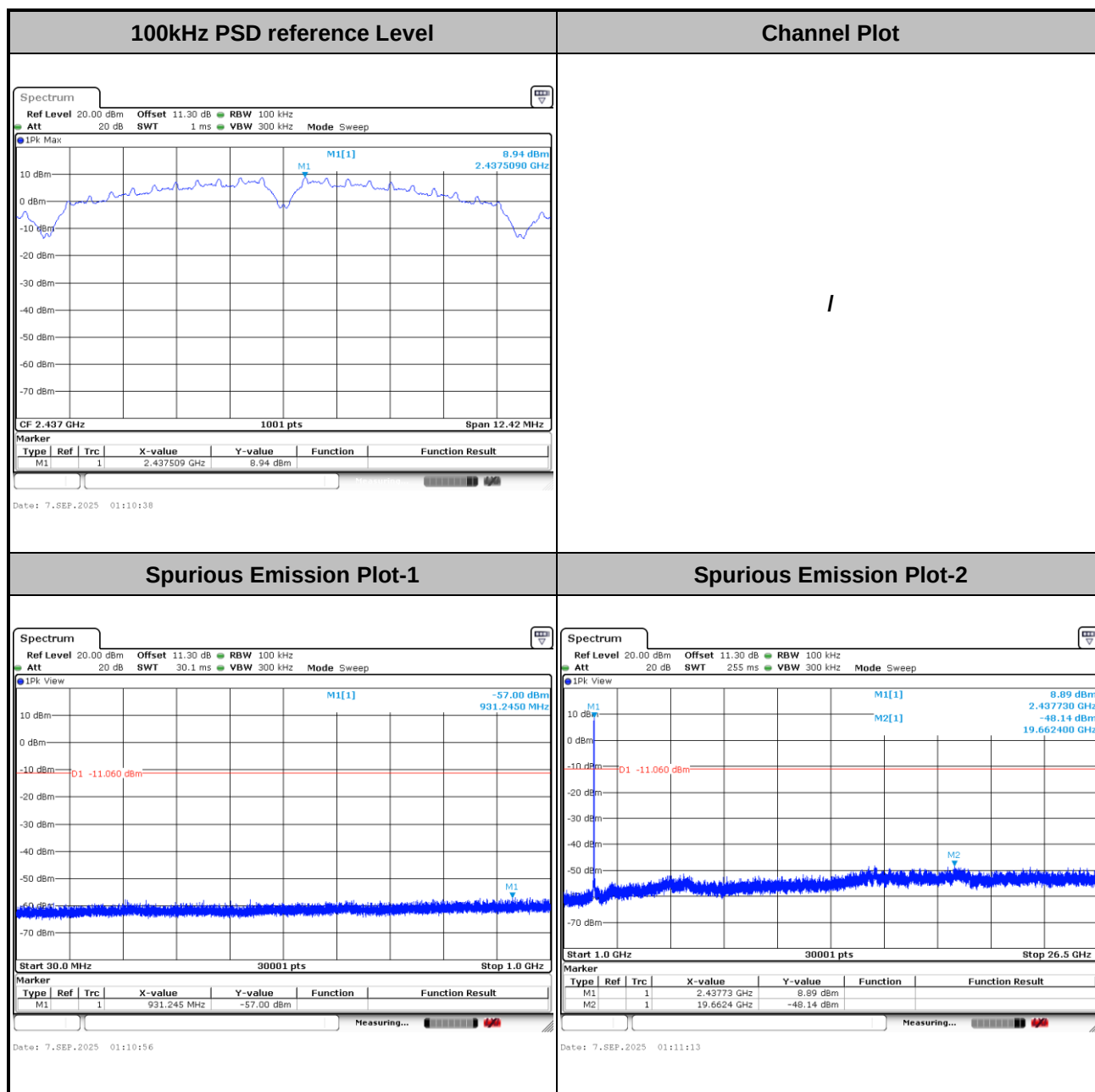
Number of TX = 2, Ant. 12 (Measured)

Test Mode :	802.11b	Test Channel :	01
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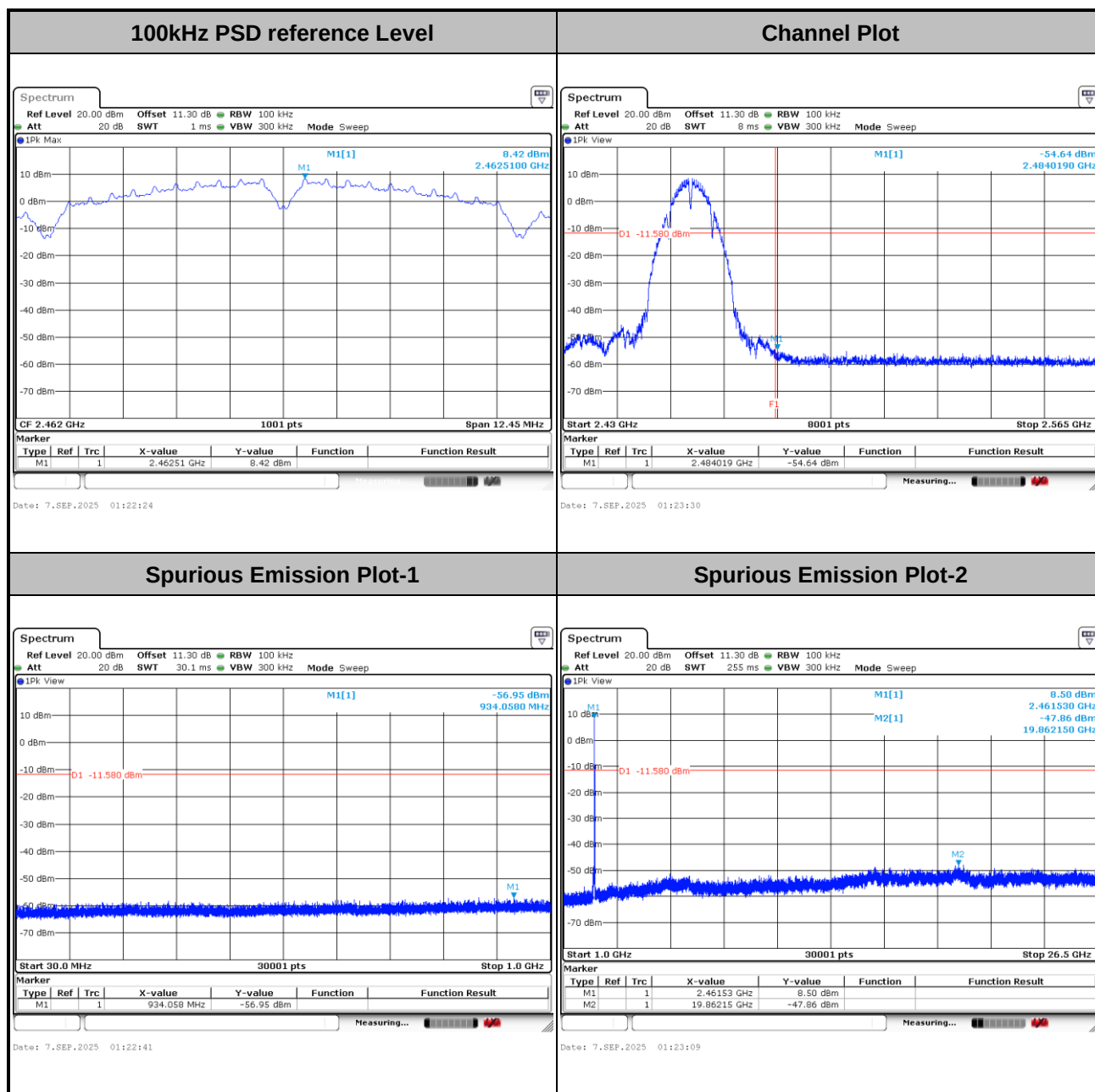


Test Mode :	802.11b	Test Channel :	06
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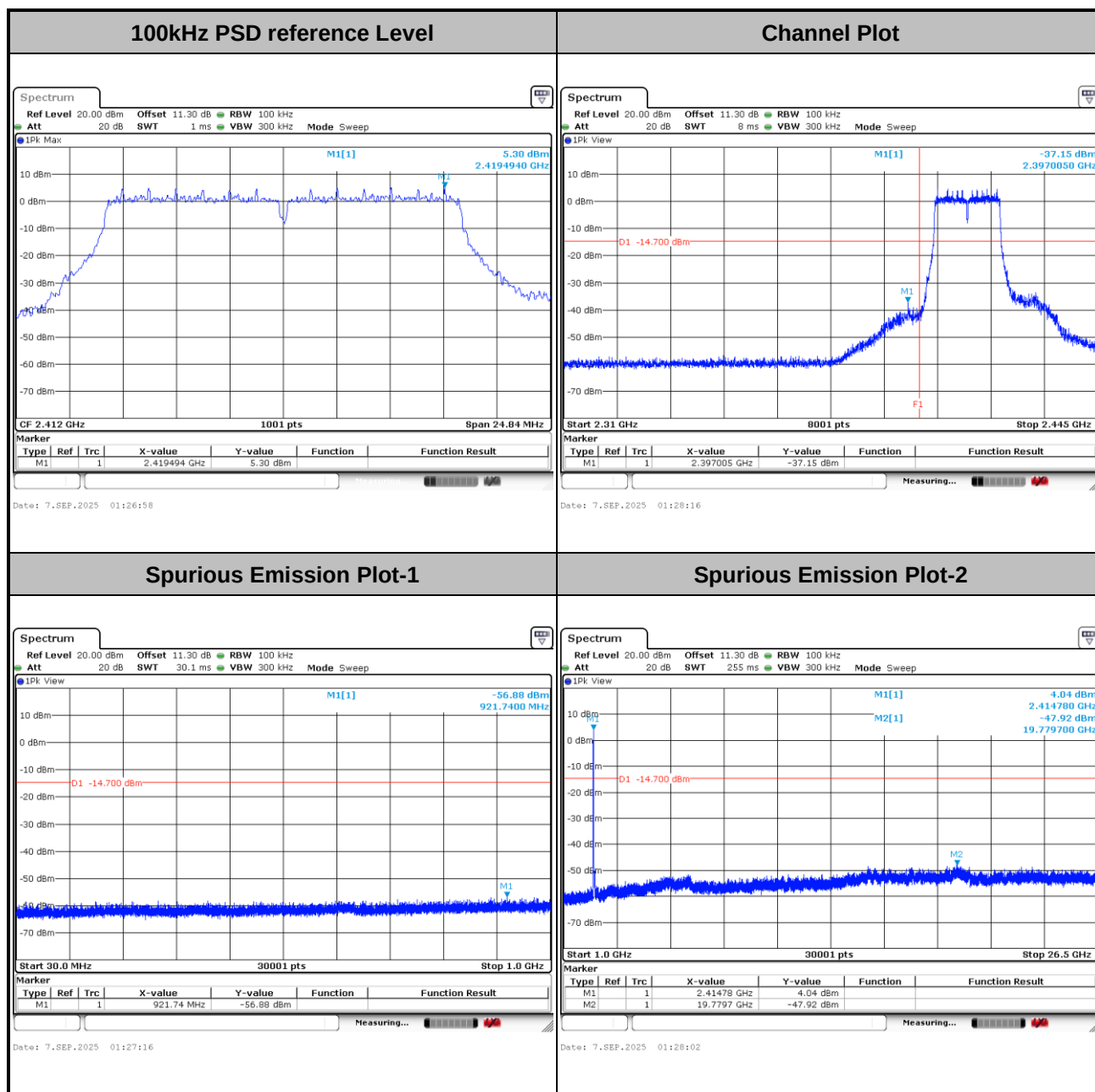


Test Mode :	802.11b	Test Channel :	11
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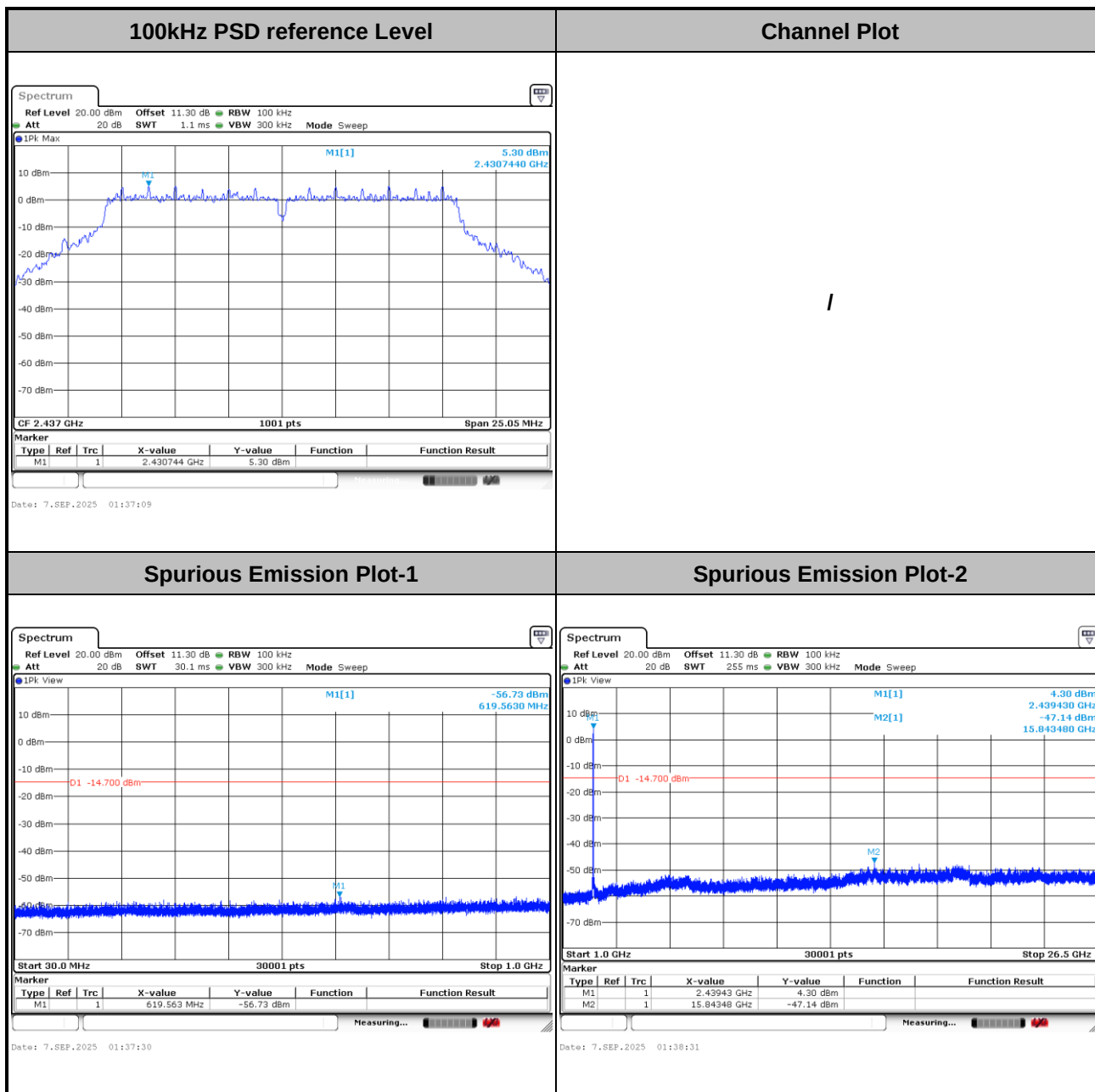


Test Mode :	802.11g	Test Channel :	01
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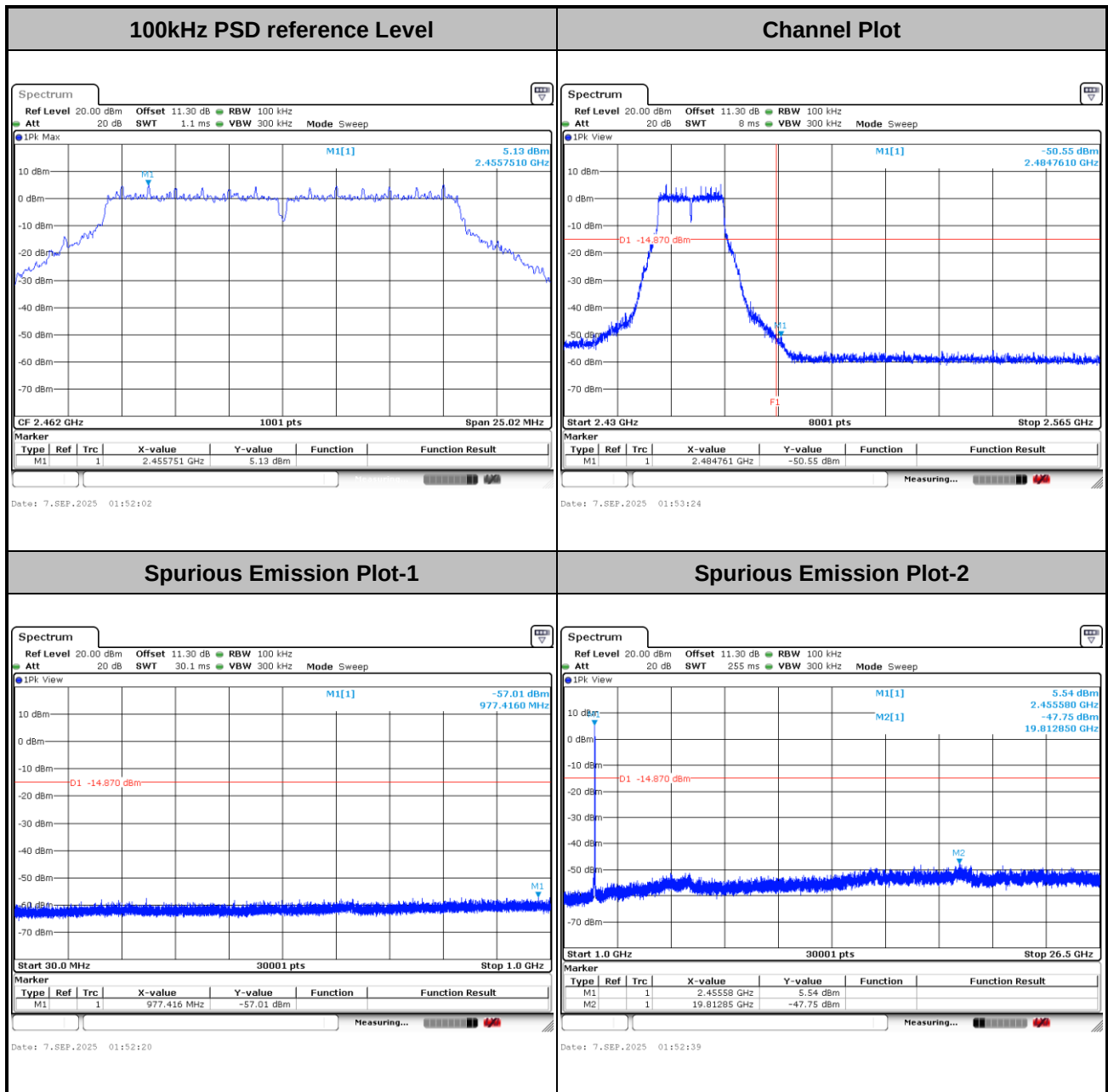


Test Mode :	802.11g	Test Channel :	06
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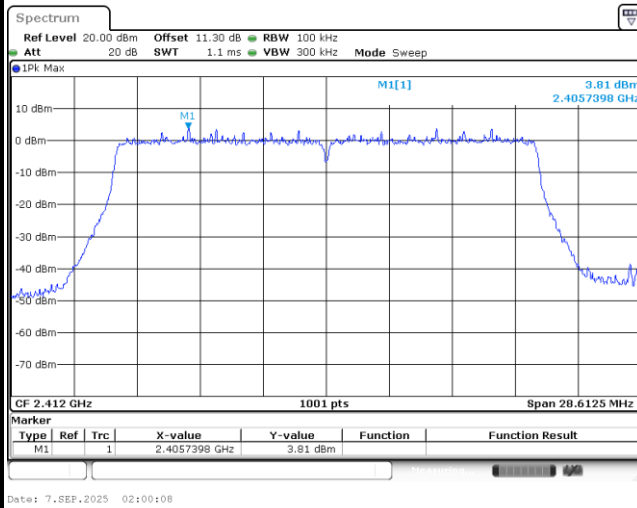
Test Mode :	802.11g	Test Channel :	11
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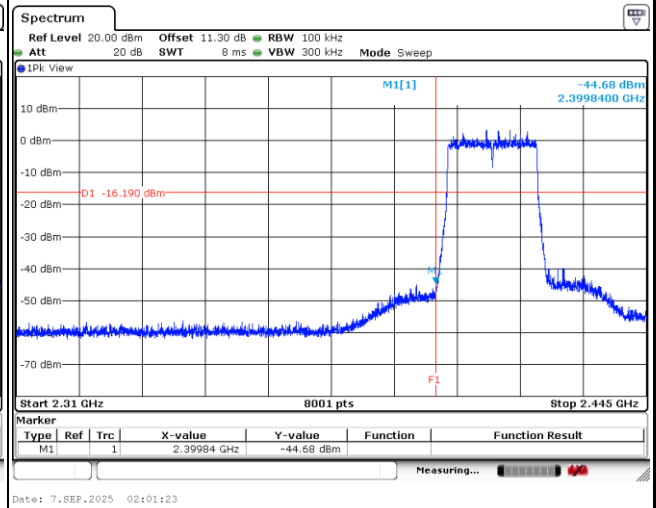


Test Mode : 802.11be EHT20 Test Channel : 01

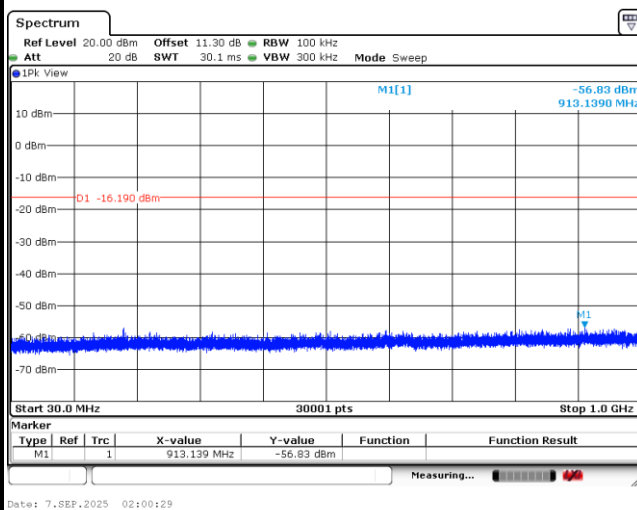
100kHz PSD reference Level



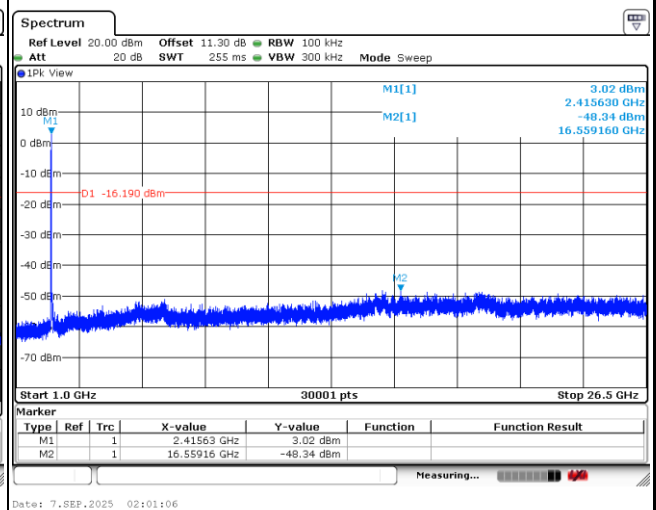
Channel Plot



Spurious Emission Plot-1



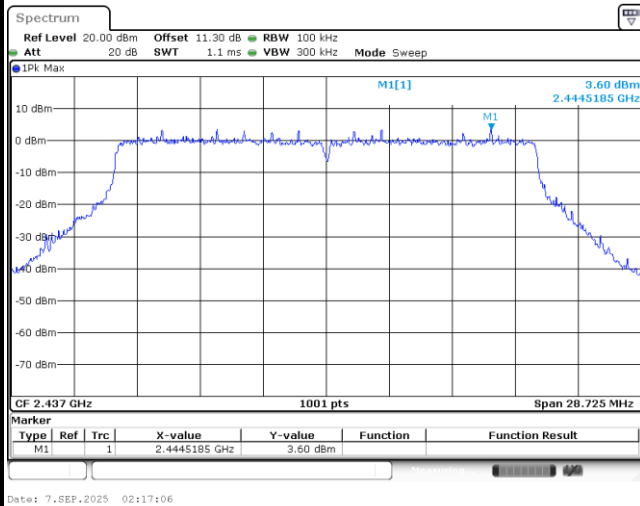
Spurious Emission Plot-2





Test Mode :	802.11be EHT20	Test Channel :	06
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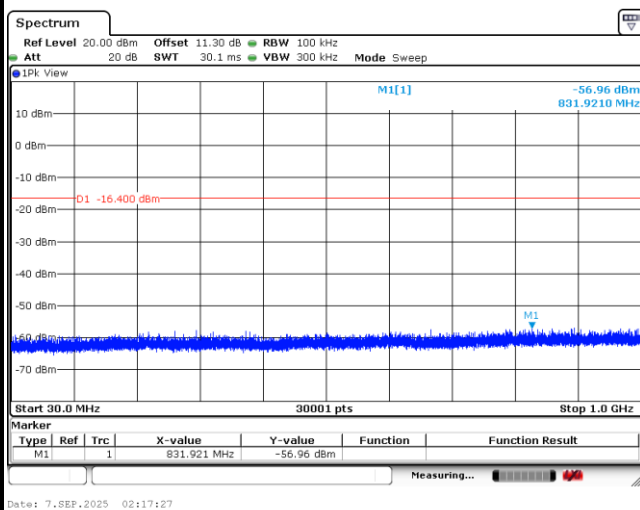
100kHz PSD reference Level



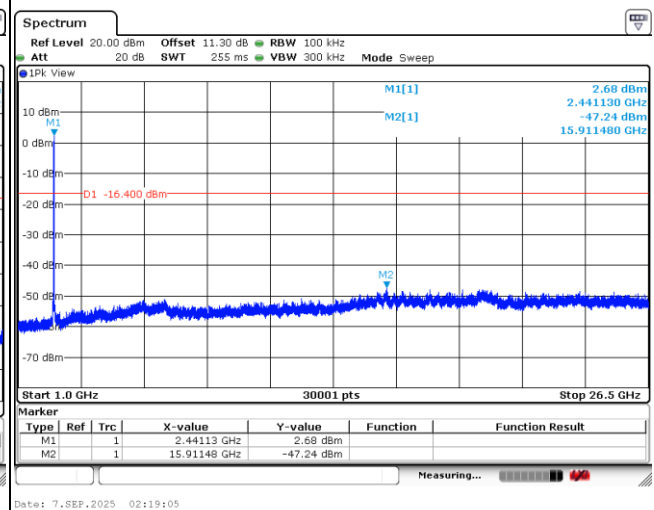
Channel Plot

/

Spurious Emission Plot-1



Spurious Emission Plot-2

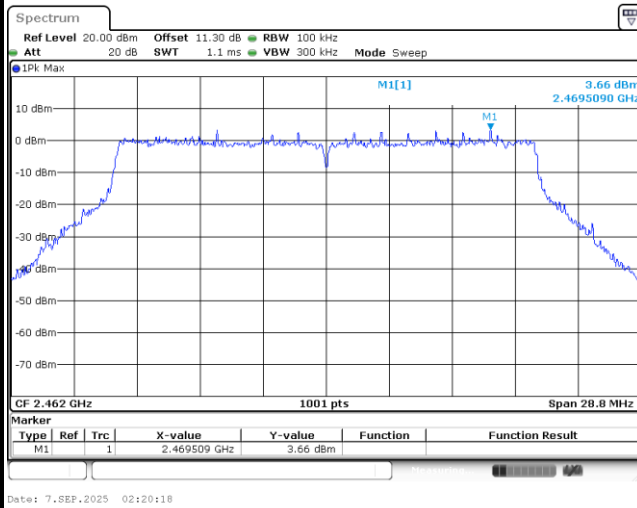




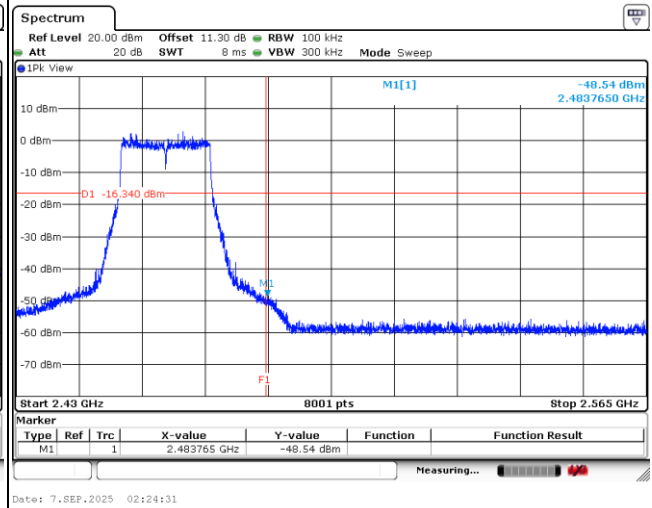
Test Mode : 802.11be EHT20

Test Channel : 11

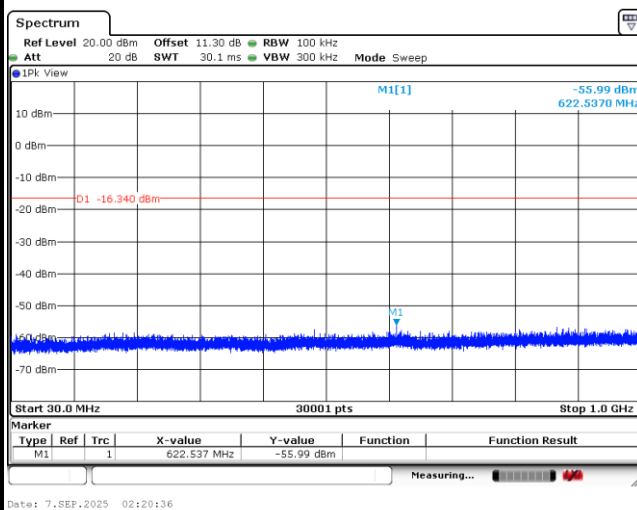
100kHz PSD reference Level



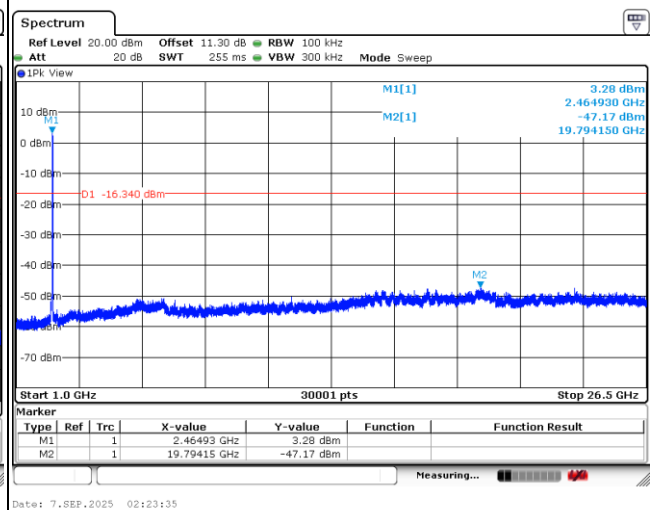
Channel Plot



Spurious Emission Plot-1



Spurious Emission Plot-2

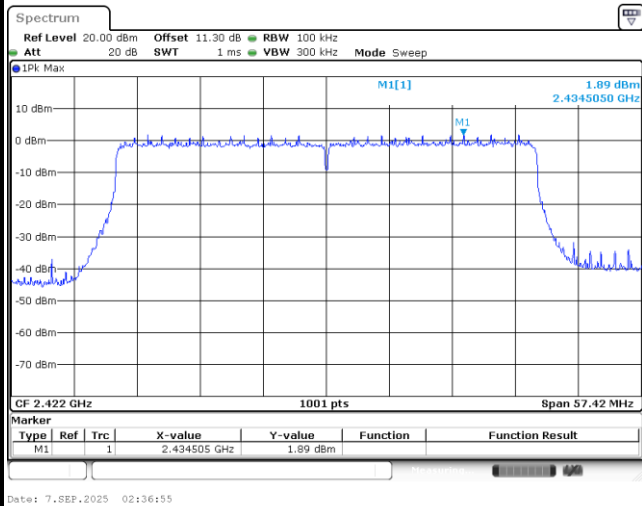




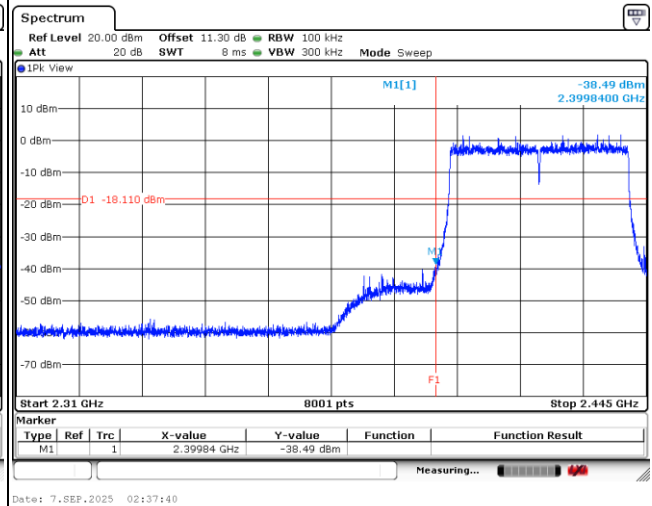
Test Mode : 802.11be EHT40

Test Channel : 03

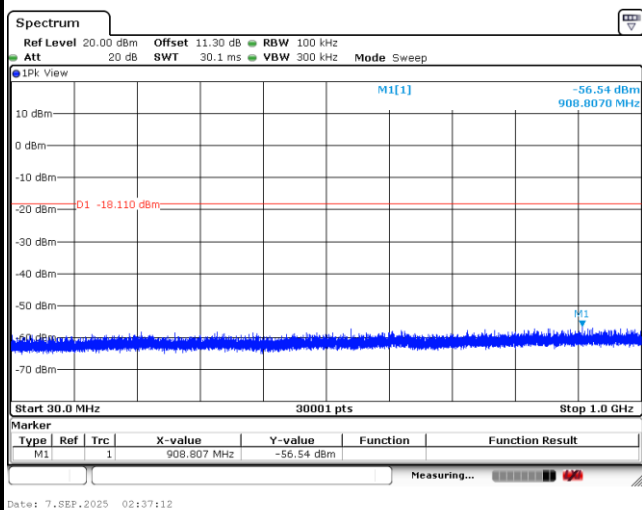
100kHz PSD reference Level



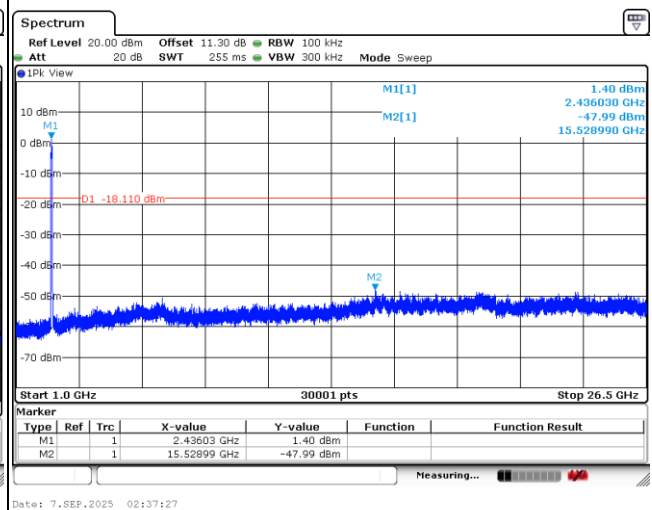
Channel Plot



Spurious Emission Plot-1

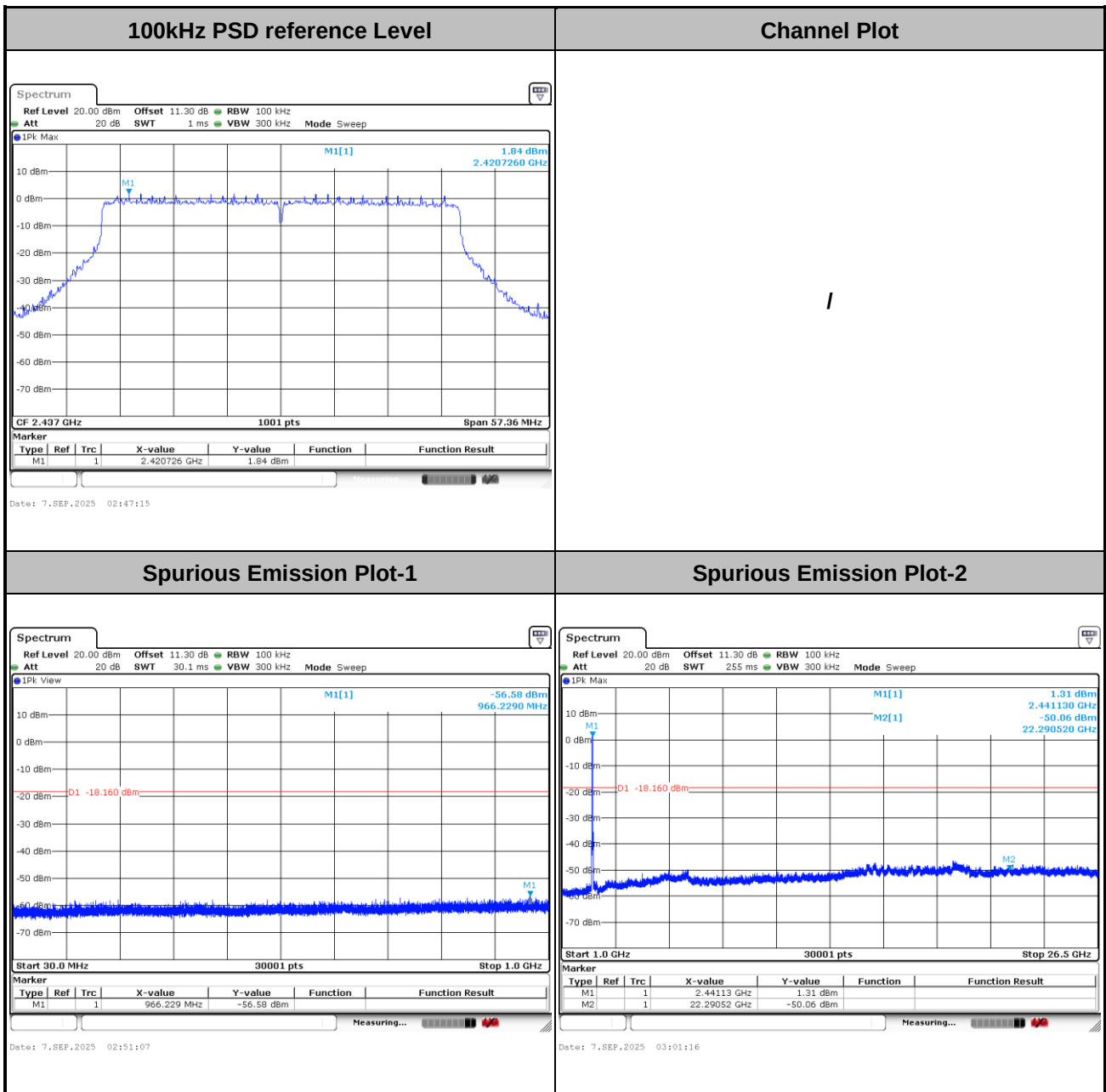


Spurious Emission Plot-2





Test Mode :	802.11be EHT40	Test Channel :	06
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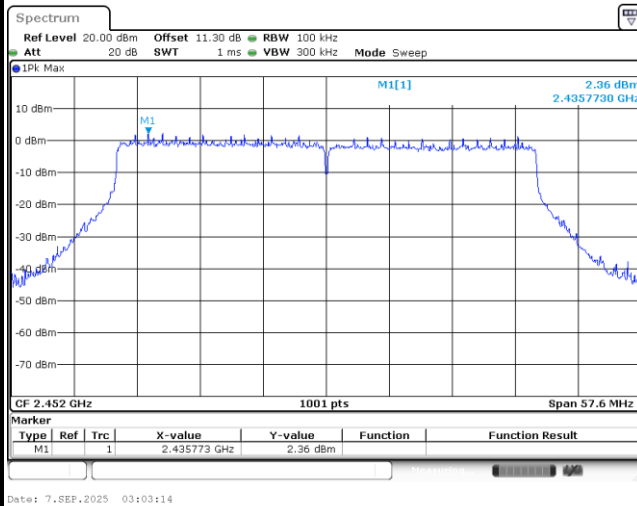




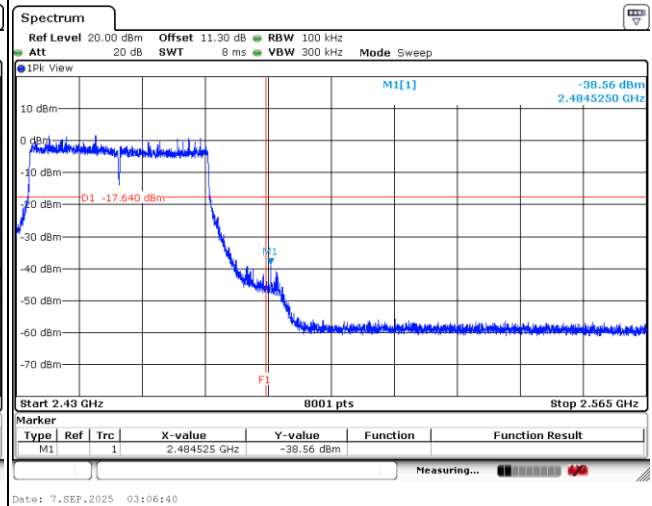
Test Mode : 802.11be EHT40

Test Channel : 09

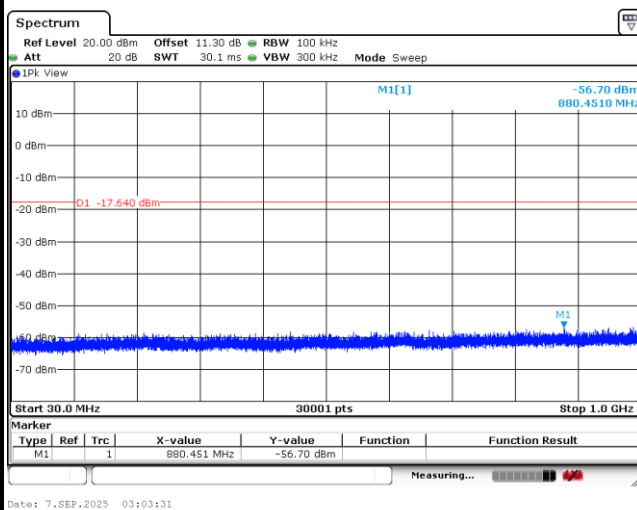
100kHz PSD reference Level



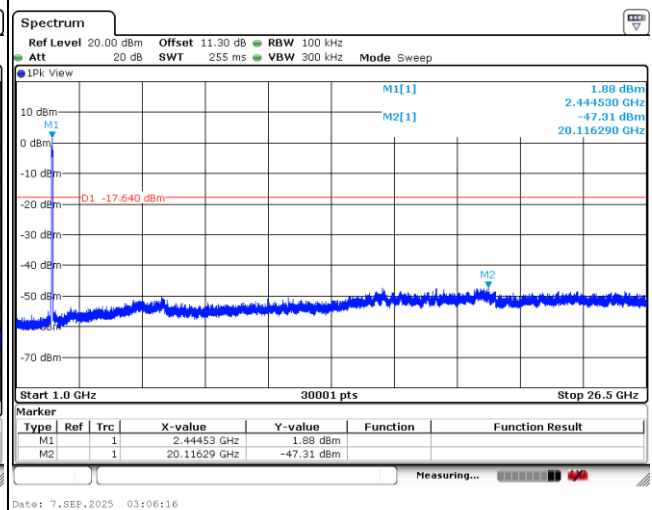
Channel Plot



Spurious Emission Plot-1



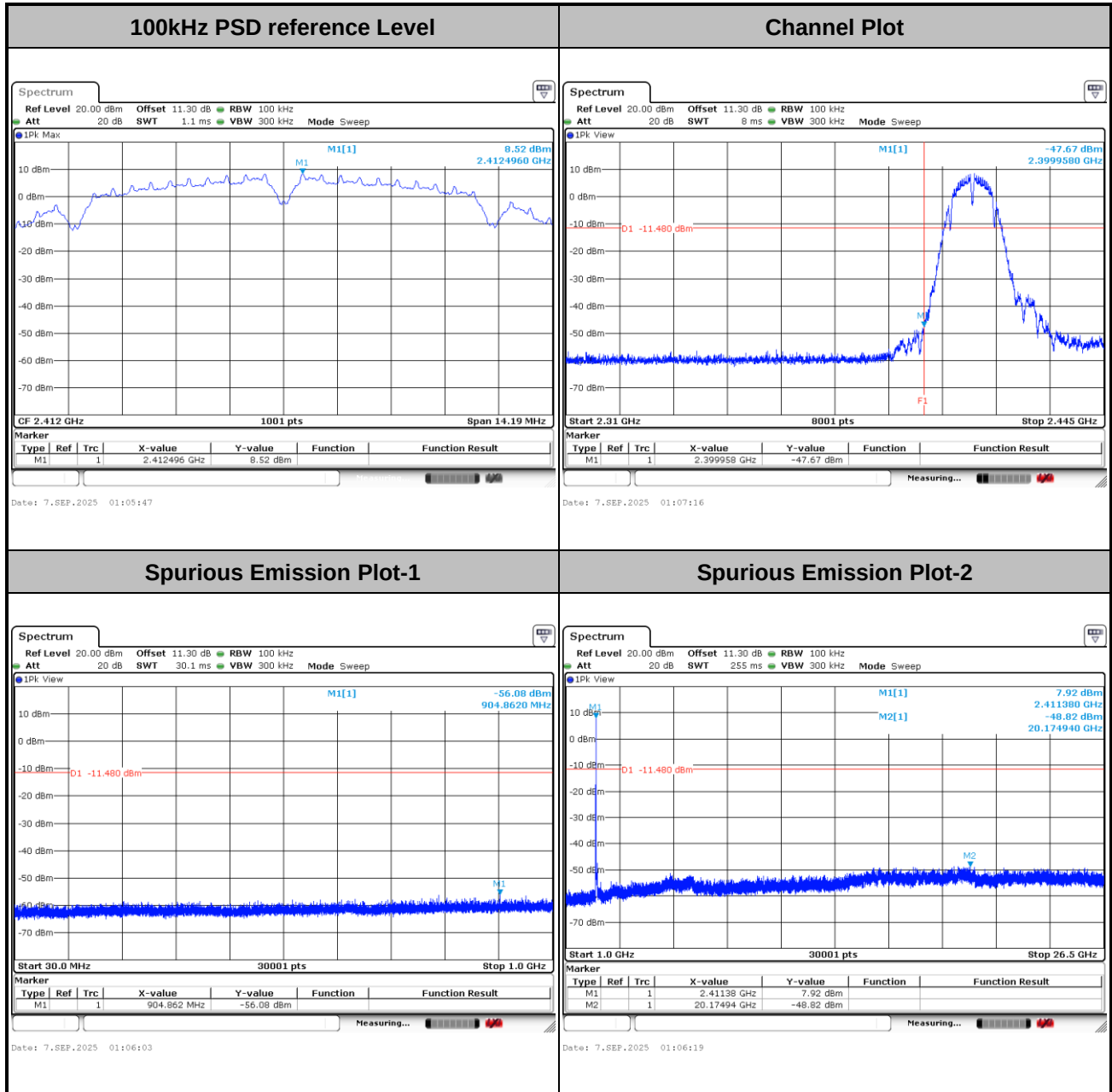
Spurious Emission Plot-2





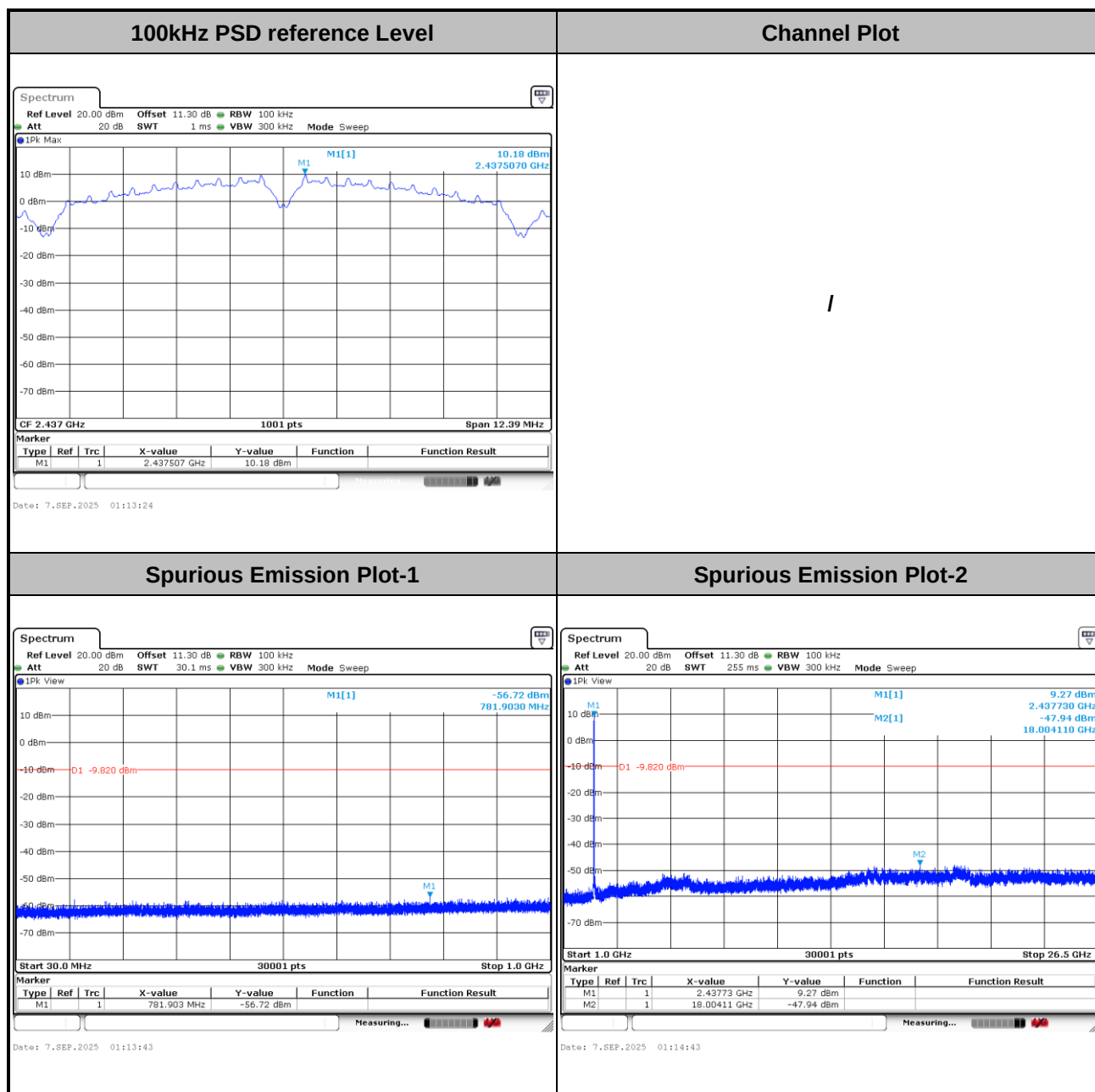
Number of TX = 2, Ant. 7 (Measured)

Test Mode :	802.11b	Test Channel :	01
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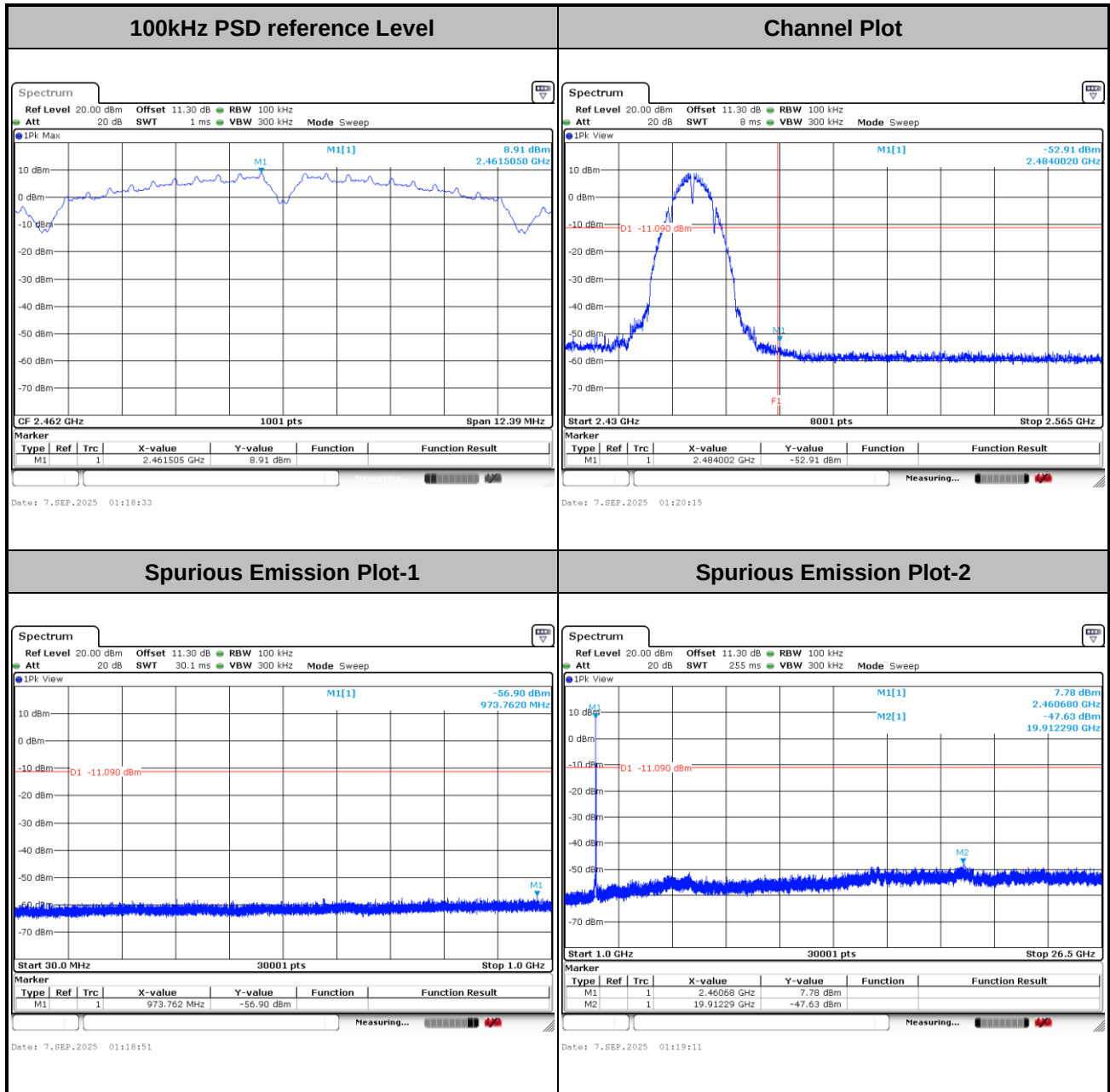


Test Mode :	802.11b	Test Channel :	06
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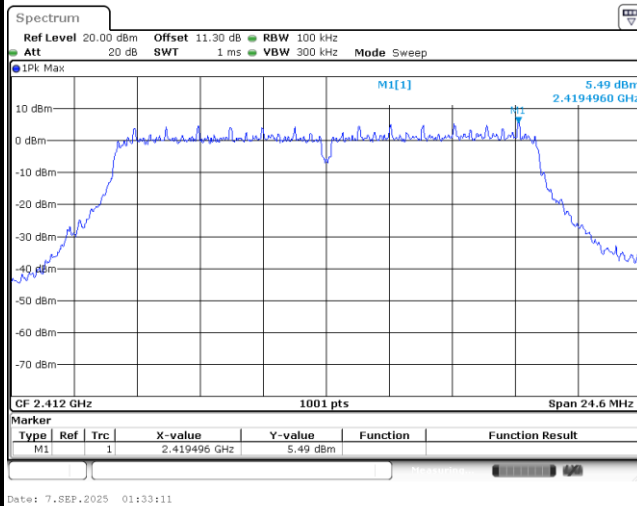
Test Mode :	802.11b	Test Channel :	11
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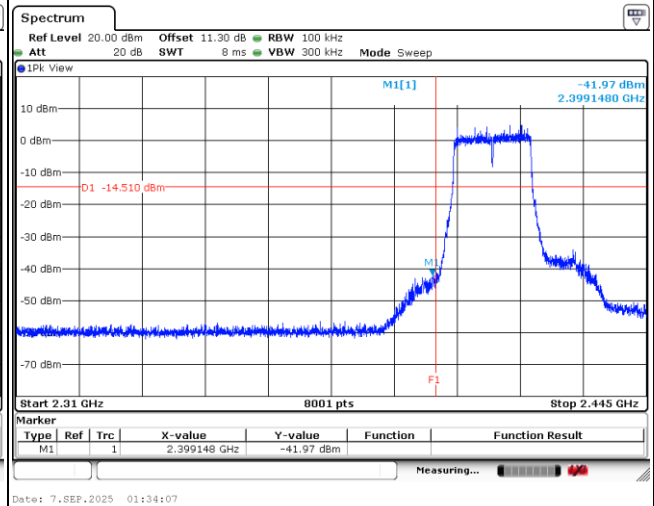


Test Mode : 802.11g Test Channel : 01

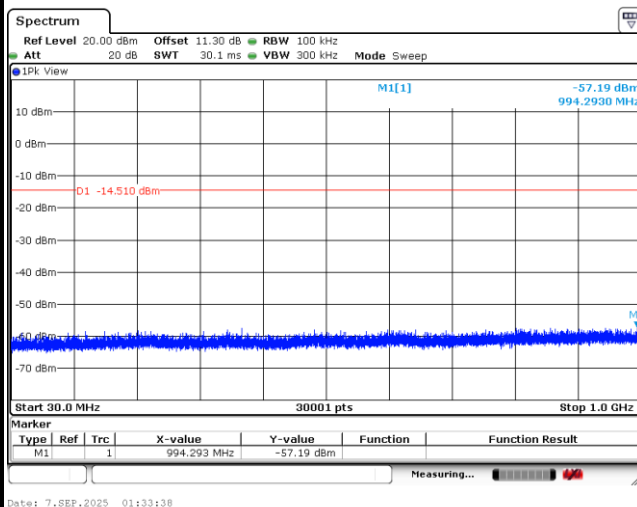
100kHz PSD reference Level



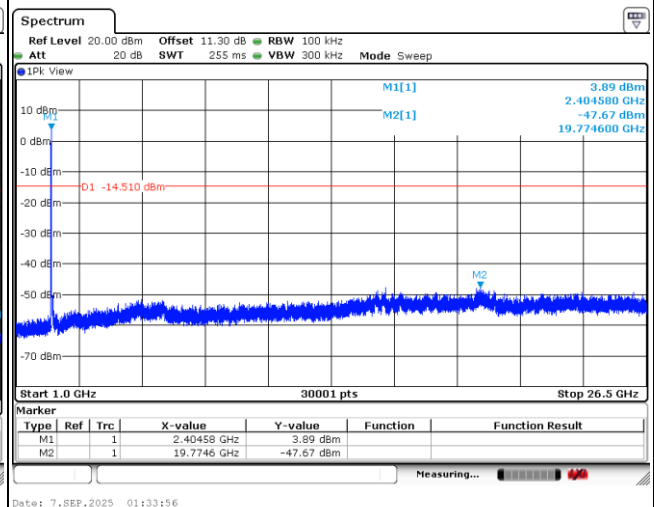
Channel Plot



Spurious Emission Plot-1

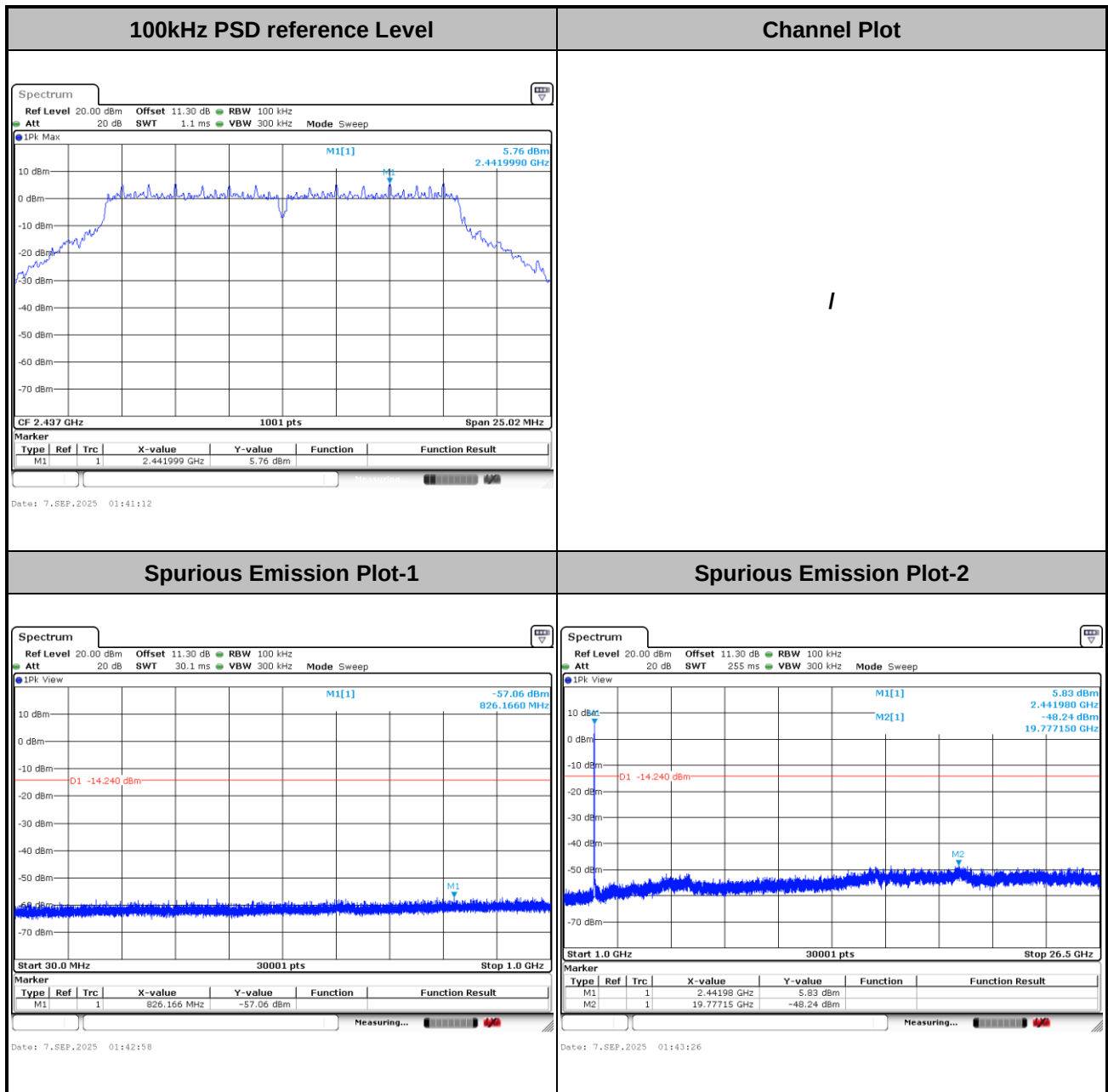


Spurious Emission Plot-2





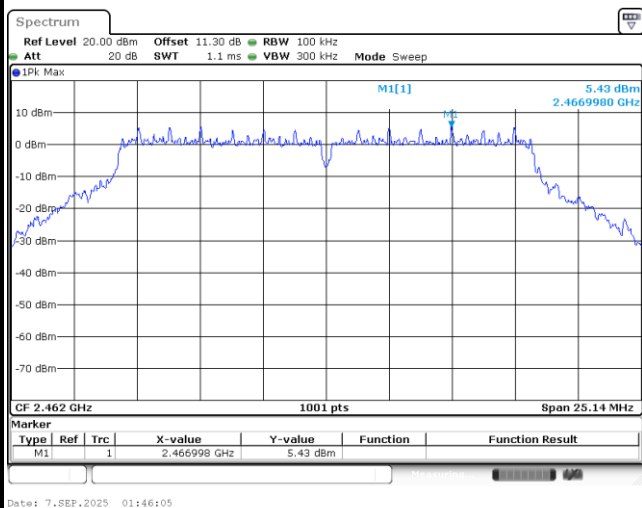
Test Mode :	802.11g	Test Channel :	06
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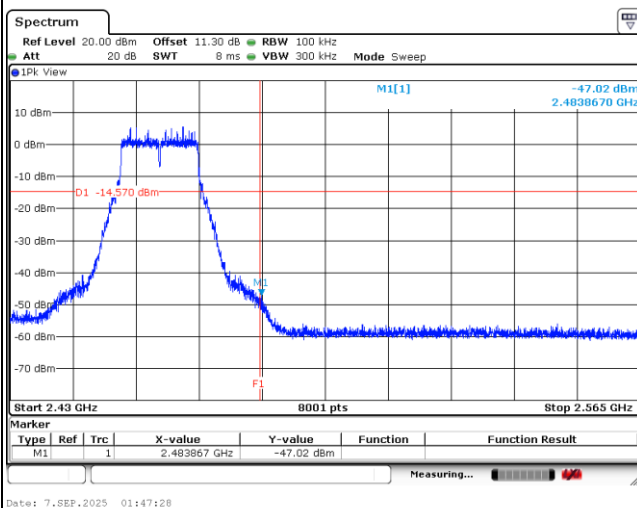


Test Mode : 802.11g Test Channel : 11

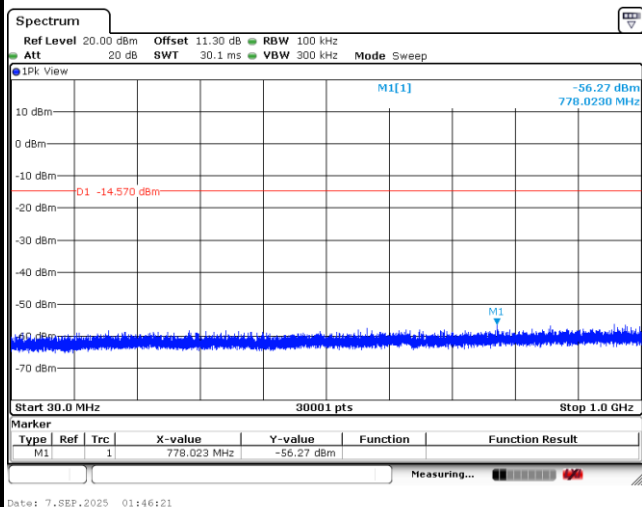
100kHz PSD reference Level



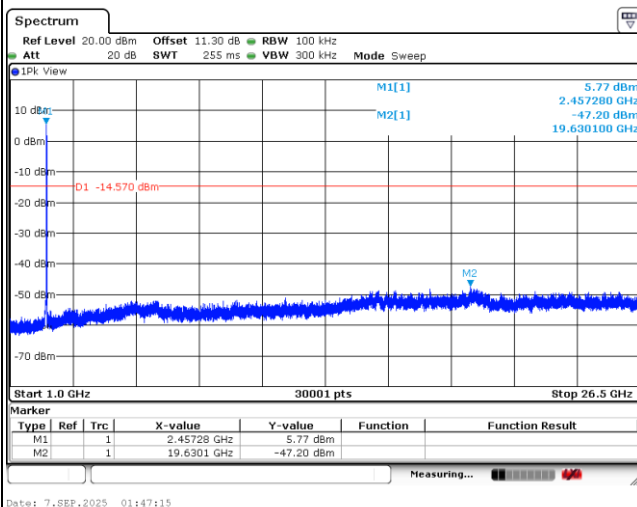
Channel Plot



Spurious Emission Plot-1



Spurious Emission Plot-2

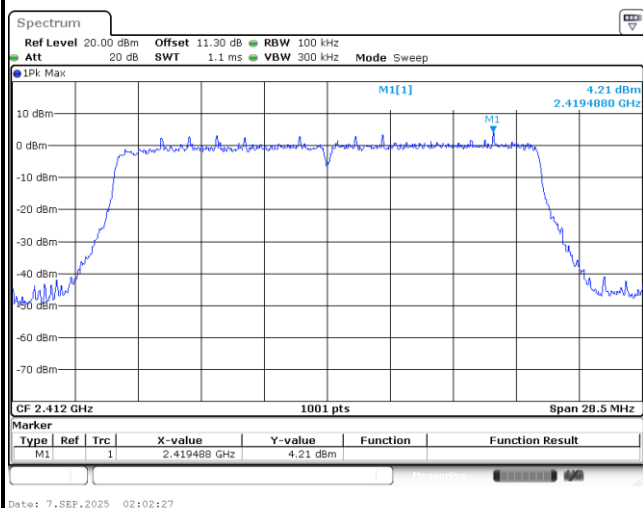




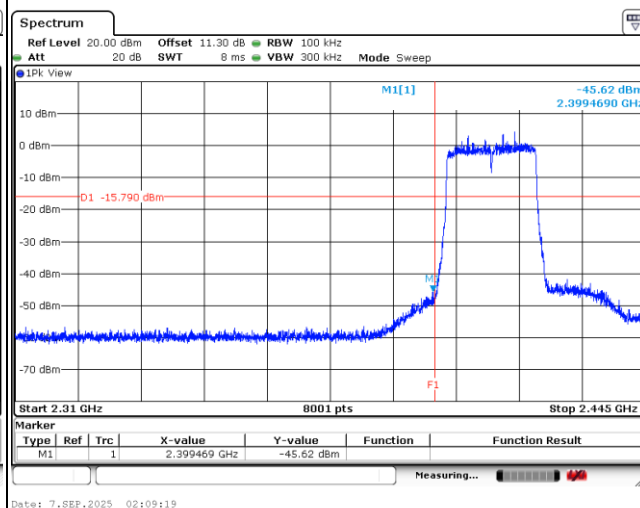
Test Mode : 802.11be EHT20

Test Channel : 01

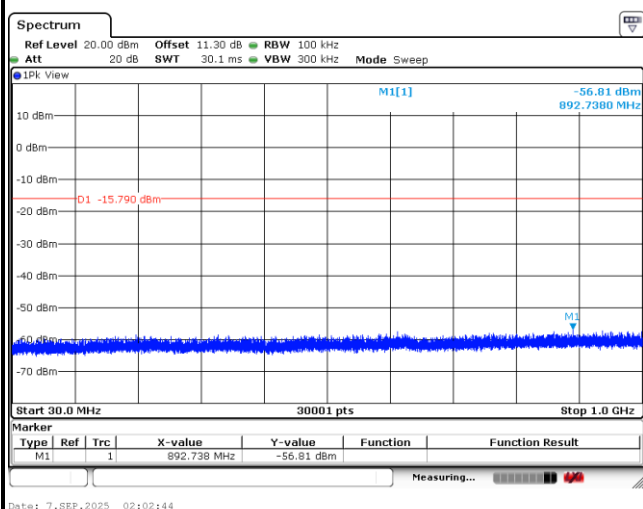
100kHz PSD reference Level



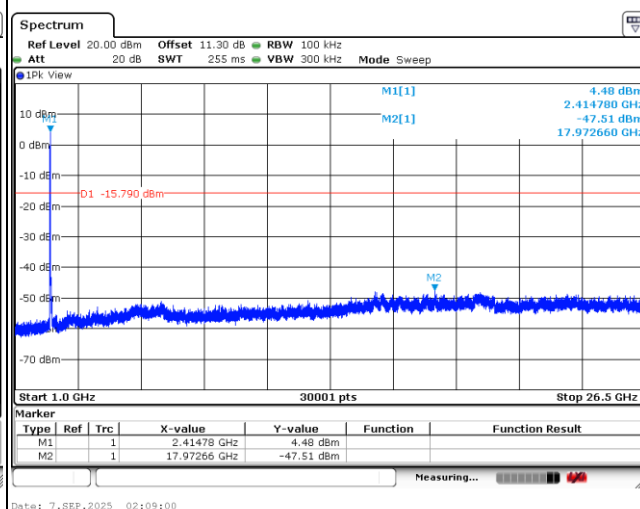
Channel Plot



Spurious Emission Plot-1

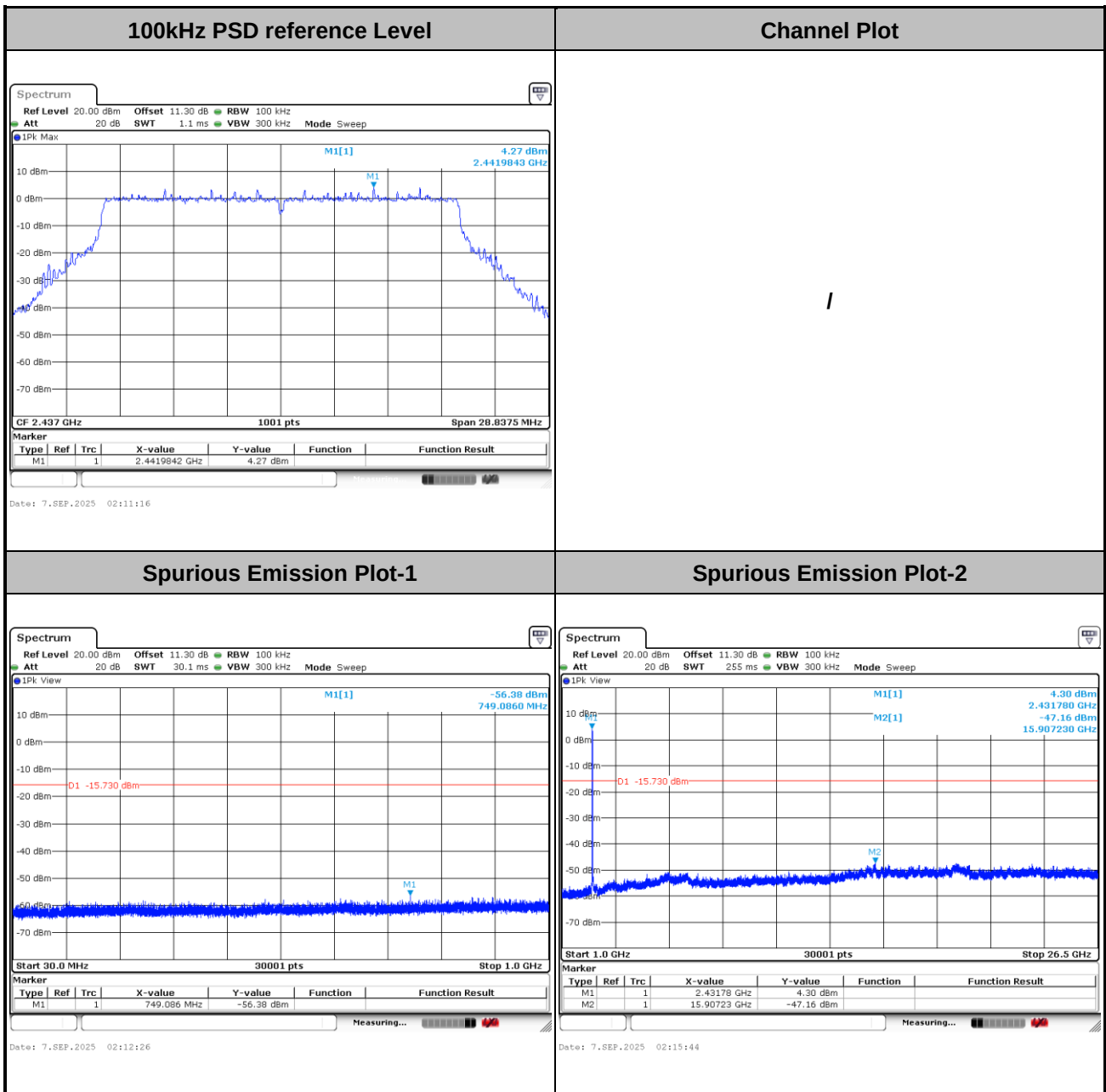


Spurious Emission Plot-2





Test Mode :	802.11be EHT20	Test Channel :	06
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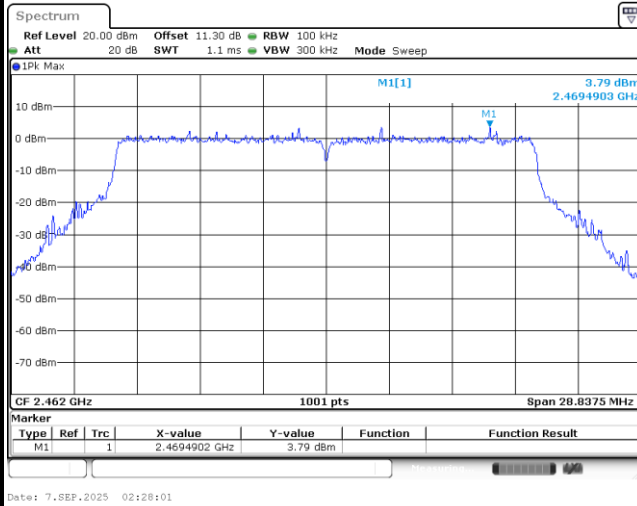




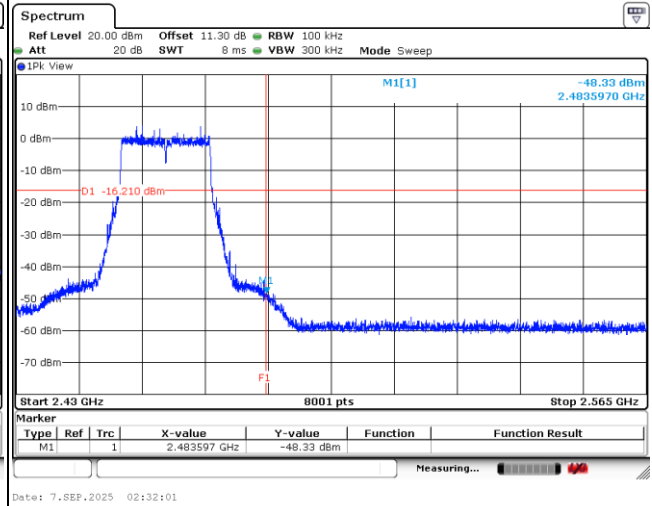
Test Mode : 802.11be EHT20

Test Channel : 11

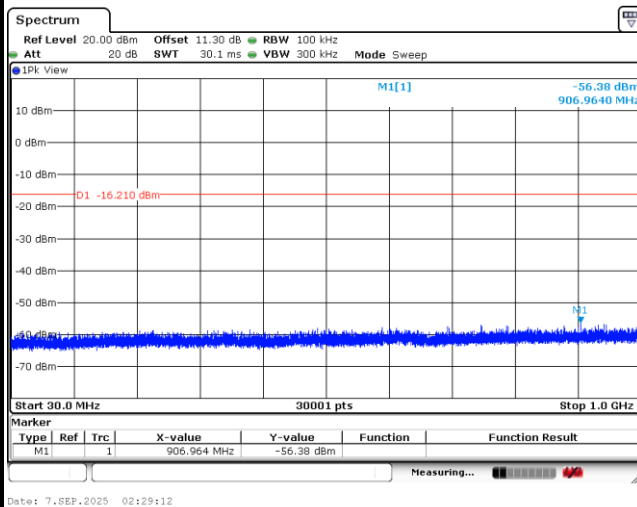
100kHz PSD reference Level



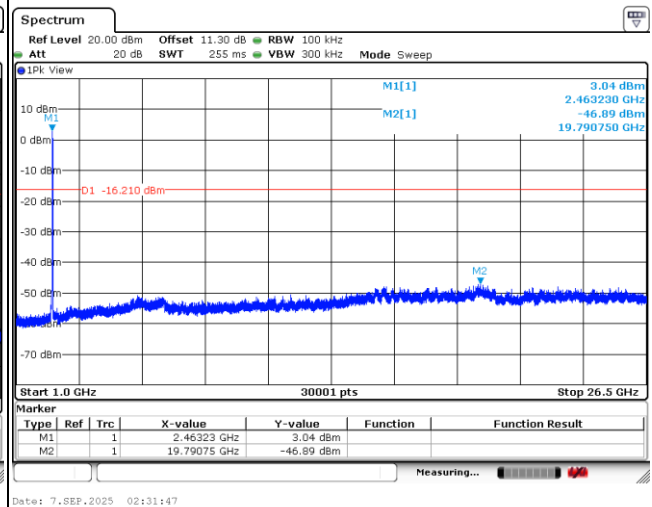
Channel Plot



Spurious Emission Plot-1



Spurious Emission Plot-2

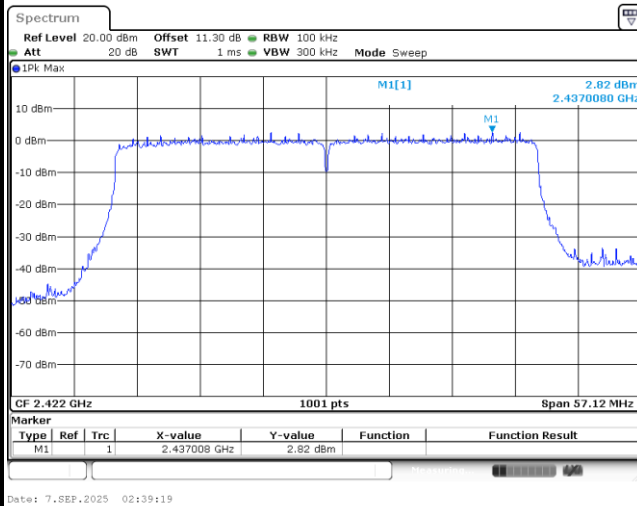




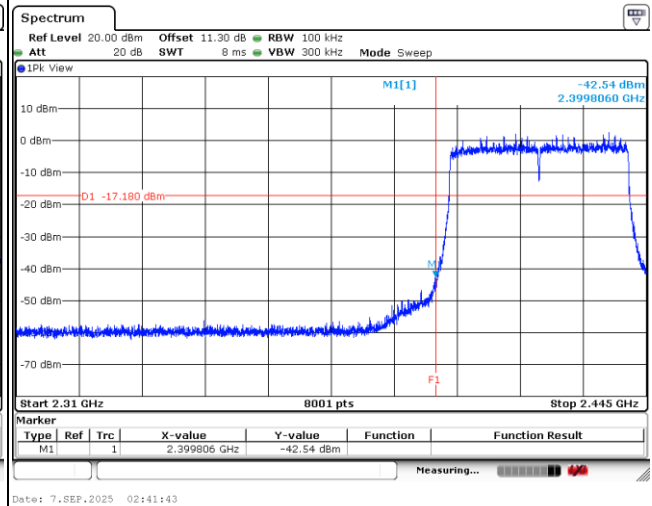
Test Mode : 802.11be EHT40

Test Channel : 03

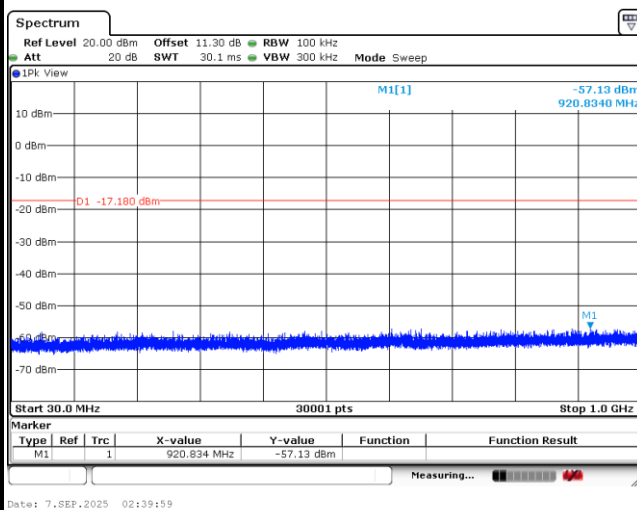
100kHz PSD reference Level



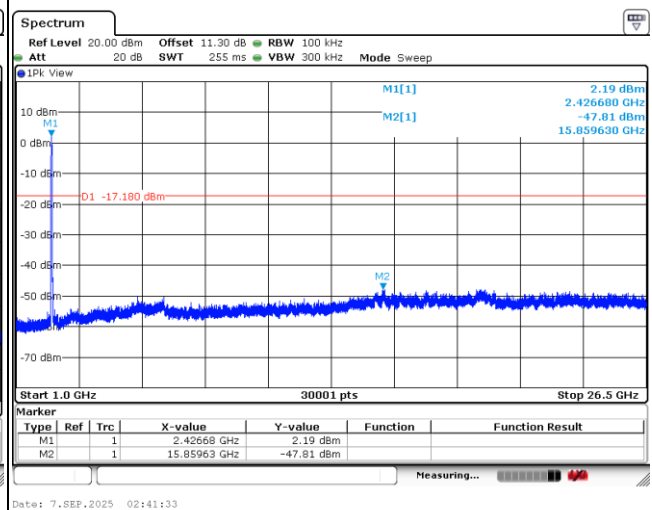
Channel Plot



Spurious Emission Plot-1

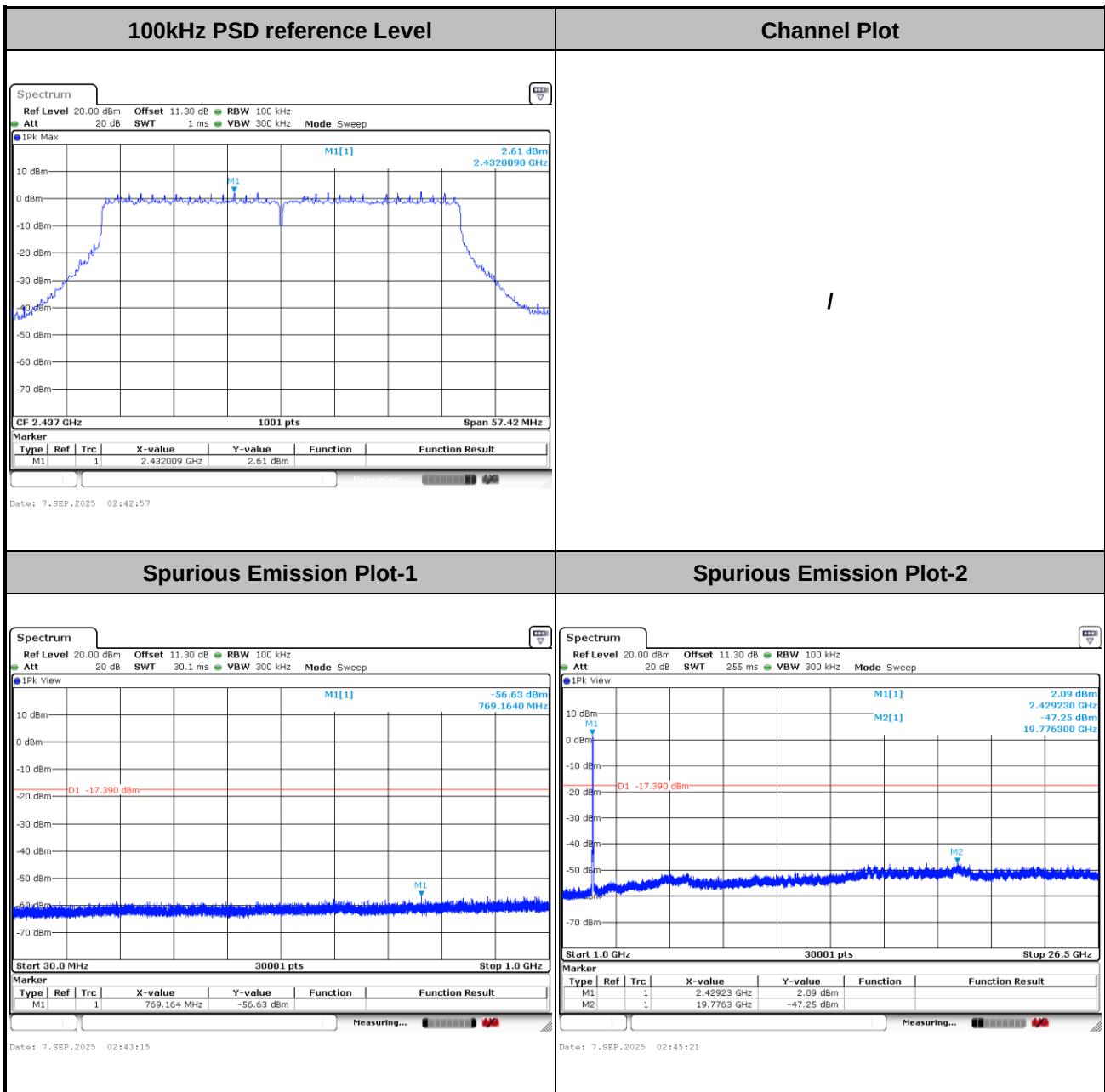


Spurious Emission Plot-2





Test Mode :	802.11be EHT40	Test Channel :	06
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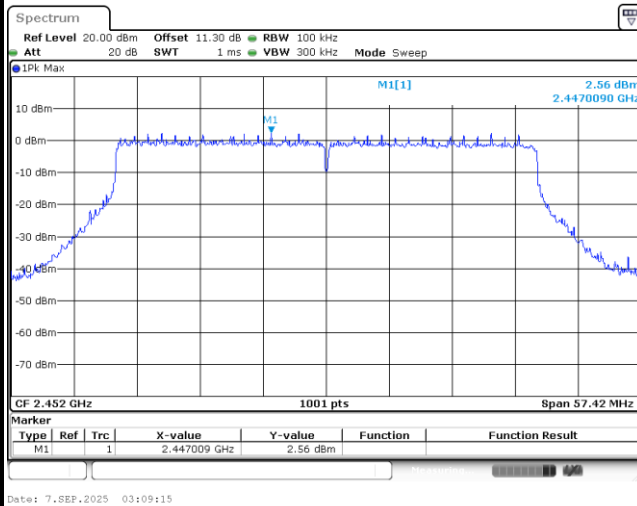




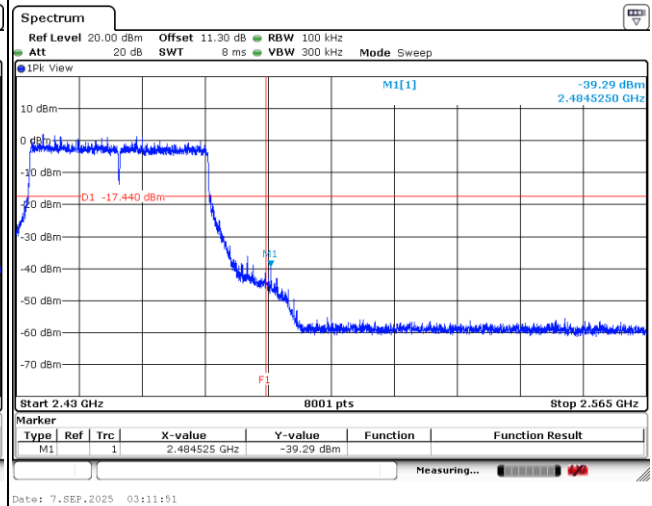
Test Mode : 802.11be EHT40

Test Channel : 09

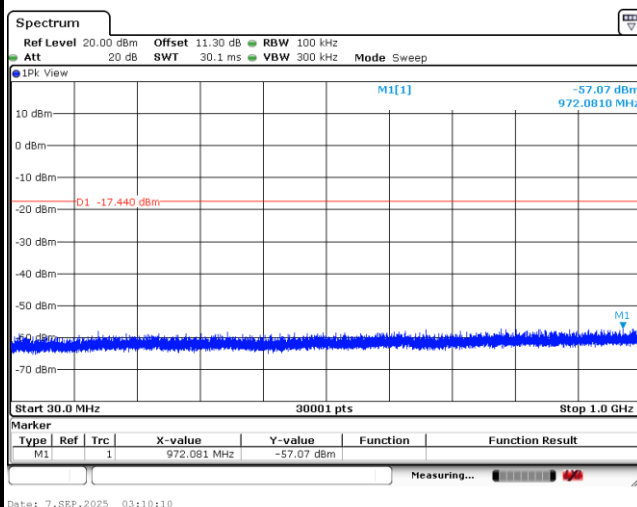
100kHz PSD reference Level



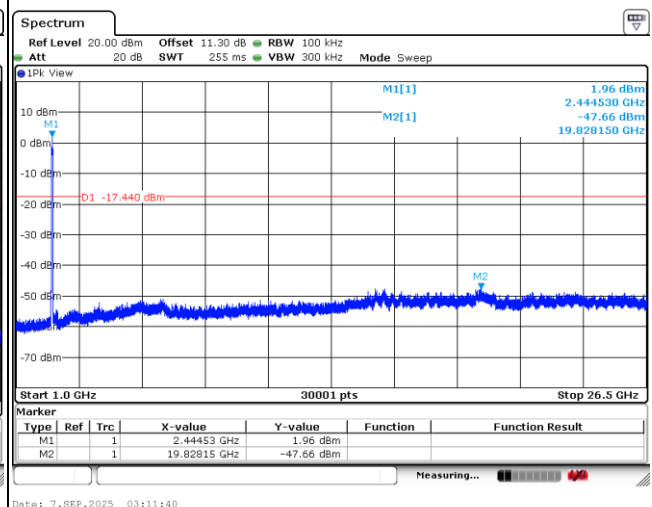
Channel Plot



Spurious Emission Plot-1



Spurious Emission Plot-2



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

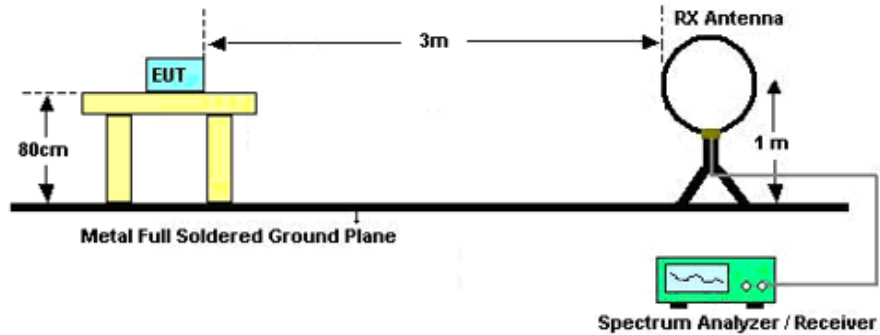
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

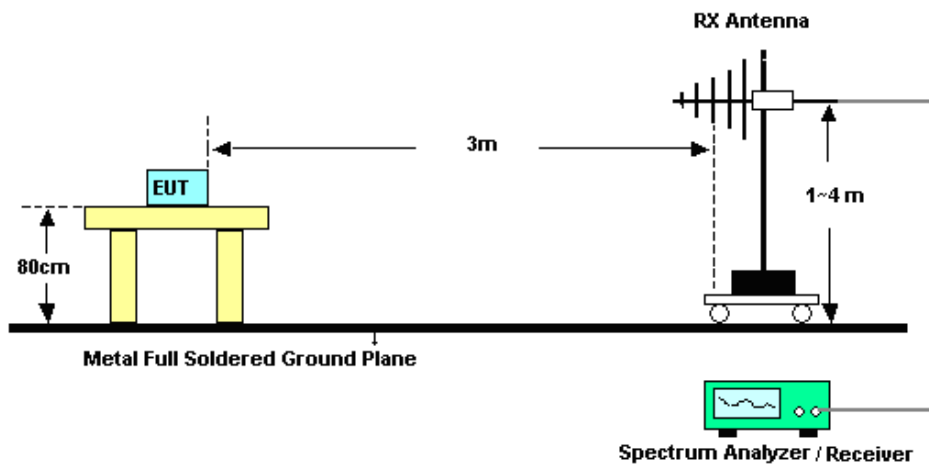
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

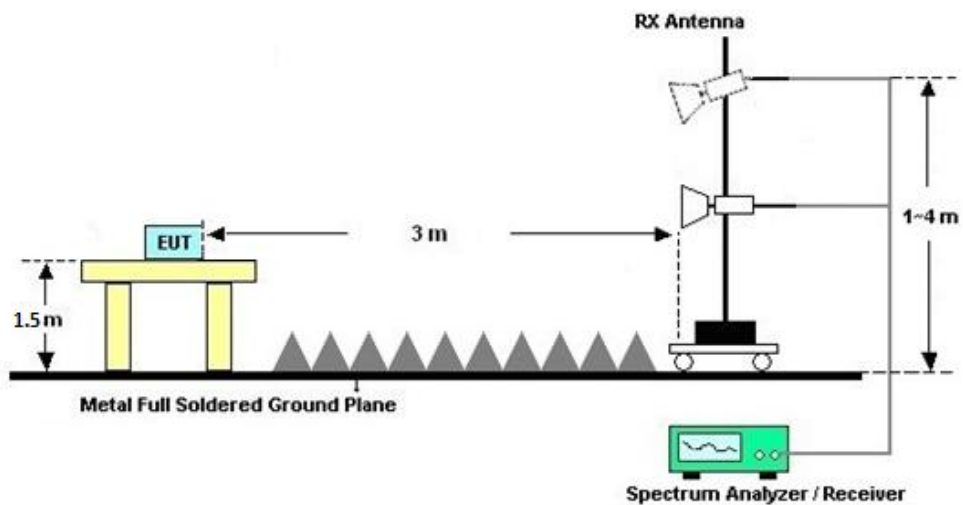
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

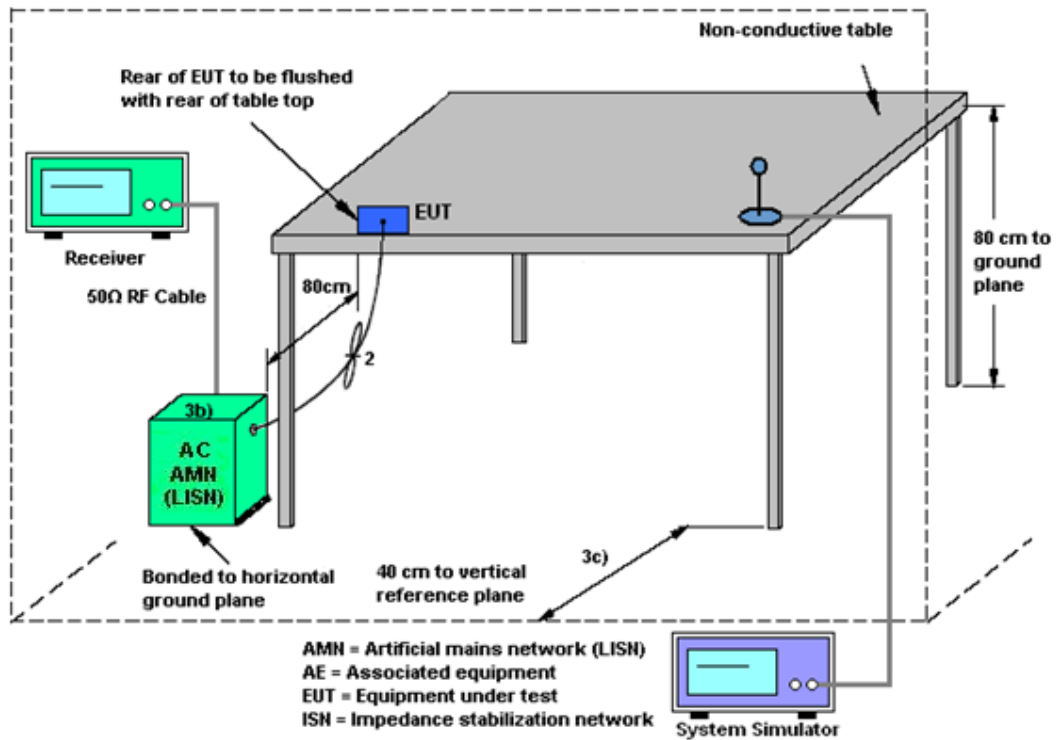
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 12	Ant. 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-1.90	-1.90	-1.90	1.11	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 25, 2024	Sep. 05, 2025~Sep. 11, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Sep. 05, 2025~Sep. 11, 2025	Jul. 02, 2026	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Sep. 05, 2025~Sep. 11, 2025	Dec. 27, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Sep. 05, 2025~Sep. 11, 2025	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Sep. 05, 2025~Sep. 11, 2025	Jul. 03, 2026	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Sep. 05, 2025~Sep. 11, 2025	Apr. 02, 2027	Radiation (03CH01-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Sep. 05, 2025~Sep. 11, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Sep. 05, 2025~Sep. 11, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Sep. 05, 2025~Sep. 11, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Sep. 05, 2025~Sep. 11, 2025	Jul. 02, 2026	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Sep. 05, 2025~Sep. 11, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 05, 2025~Sep. 11, 2025	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 05, 2025~Sep. 11, 2025	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr 16, 2025	Sep. 16, 2025	Apr 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 19, 2025	Sep. 16, 2025	Aug. 18, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Sep. 16, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Sep. 16, 2025	Oct. 08, 2025	Conduction (CO01-KS)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Sep. 07, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Sep. 07, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14, 2024	Sep. 07, 2025	Oct. 13, 2025	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84 dB
---	---------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3 dB
---	--------

----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	He Qingsheng	Temperature:	21~25	°C
Test Date:	2025/9/7	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant12	Ant7	SUM	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	
11b	1Mbps	2	1	2412	18.70	18.60	21.66	30.00		-1.90		19.76		36.00		Pass
11b	1Mbps	2	6	2437	18.70	18.90	21.81	30.00		-1.90		19.91		36.00		Pass
11b	1Mbps	2	11	2462	18.40	18.60	21.51	30.00		-1.90		19.61		36.00		Pass
11g	6Mbps	2	1	2412	14.70	14.70	17.71	30.00		-1.90		15.81		36.00		Pass
11g	6Mbps	2	6	2437	17.00	17.30	20.16	30.00		-1.90		18.26		36.00		Pass
11g	6Mbps	2	11	2462	16.50	16.70	19.61	30.00		-1.90		17.71		36.00		Pass
HT20	MCS0	2	1	2412	14.40	14.30	17.36	30.00		-1.90		15.46		36.00		Pass
HT20	MCS0	2	6	2437	15.40	15.70	18.56	30.00		-1.90		16.66		36.00		Pass
HT20	MCS0	2	11	2462	14.20	14.40	17.31	30.00		-1.90		15.41		36.00		Pass
HT40	MCS0	2	3	2422	15.10	15.30	18.21	30.00		-1.90		16.31		36.00		Pass
HT40	MCS0	2	6	2437	14.80	15.00	17.91	30.00		-1.90		16.01		36.00		Pass
HT40	MCS0	2	9	2452	12.60	13.00	15.81	30.00		-1.90		13.91		36.00		Pass

Setting	
Ant12	Ant7
19.00	
19.00	
19.00	
15.00	
17.50	
17.00	
15.00	
16.00	
15.00	
15.50	
15.50	
13.50	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant12	Ant7	SUM	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	
11b	1Mbps	2	1	2412	22.57	22.55	25.57	30.00		-1.90		23.67		36.00		Pass
11b	1Mbps	2	6	2437	21.59	21.89	24.75	30.00		-1.90		22.85		36.00		Pass
11b	1Mbps	2	11	2462	21.40	21.74	24.58	30.00		-1.90		22.68		36.00		Pass
11g	6Mbps	2	1	2412	22.36	22.40	25.39	30.00		-1.90		23.49		36.00		Pass
11g	6Mbps	2	6	2437	22.63	23.09	25.88	30.00		-1.90		23.98		36.00		Pass
11g	6Mbps	2	11	2462	22.13	22.40	25.28	30.00		-1.90		23.38		36.00		Pass
HT20	MCS0	2	1	2412	23.61	23.52	26.58	30.00		-1.90		24.68		36.00		Pass
HT20	MCS0	2	6	2437	21.57	22.17	24.89	30.00		-1.90		22.99		36.00		Pass
HT20	MCS0	2	11	2462	20.61	21.14	23.89	30.00		-1.90		21.99		36.00		Pass
HT40	MCS0	2	3	2422	24.15	24.41	27.29	30.00		-1.90		25.39		36.00		Pass
HT40	MCS0	2	6	2437	21.30	21.88	24.61	30.00		-1.90		22.71		36.00		Pass
HT40	MCS0	2	9	2452	19.24	19.70	22.49	30.00		-1.90		20.59		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant12	Ant7	Ant12	Ant7		
11b	1Mbps	2	1	2412	12.93	12.90	9.48	9.46	0.50	Pass
11b	1Mbps	2	6	2437	13.09	13.12	8.28	8.26	0.50	Pass
11b	1Mbps	2	11	2462	13.24	13.17	8.30	8.26	0.50	Pass
11g	6Mbps	2	1	2412	16.45	16.40	16.56	16.40	0.50	Pass
11g	6Mbps	2	6	2437	17.00	16.96	16.70	16.68	0.50	Pass
11g	6Mbps	2	11	2462	17.08	16.95	16.68	16.76	0.50	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant12	Ant7	Worse + 3.01	Ant12	Ant7	Ant12	Ant7	
11b	1Mbps	2	1	2412	-4.92	-5.15	-1.91	1.11		8.00		Pass
11b	1Mbps	2	6	2437	-4.44	-4.43	-1.42	1.11		8.00		Pass
11b	1Mbps	2	11	2462	-5.94	-5.49	-2.48	1.11		8.00		Pass
11g	6Mbps	2	1	2412	-12.28	-11.98	-8.97	1.11		8.00		Pass
11g	6Mbps	2	6	2437	-10.64	-10.41	-7.40	1.11		8.00		Pass
11g	6Mbps	2	11	2462	-10.95	-10.84	-7.83	1.11		8.00		Pass

Measured power density (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant12	Ant7	SUM	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	
HE20	MCS0	2	1	2412	Full	14.30	14.20	17.26	30.00		-1.90		15.36		36.00		Pass
HE20	MCS0	2	6	2437	Full	15.40	15.60	18.51	30.00		-1.90		16.61		36.00		Pass
HE20	MCS0	2	11	2462	Full	14.20	14.30	17.26	30.00		-1.90		15.36		36.00		Pass
HE40	MCS0	2	3	2422	Full	15.00	15.20	18.11	30.00		-1.90		16.21		36.00		Pass
HE40	MCS0	2	6	2437	Full	14.80	15.10	17.96	30.00		-1.90		16.06		36.00		Pass
HE40	MCS0	2	9	2452	Full	12.60	13.00	15.81	30.00		-1.90		13.91		36.00		Pass

Setting	
Ant12	Ant7
15.00	
16.00	
15.00	
15.50	
15.50	
13.50	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant12	Ant7	SUM	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	
HE20	MCS0	2	1	2412	Full	23.58	23.43	26.52	30.00		-1.90		24.62		36.00		Pass
HE20	MCS0	2	6	2437	Full	21.45	22.07	24.78	30.00		-1.90		22.88		36.00		Pass
HE20	MCS0	2	11	2462	Full	20.48	20.92	23.72	30.00		-1.90		21.82		36.00		Pass
HE40	MCS0	2	3	2422	Full	23.98	24.35	27.18	30.00		-1.90		25.28		36.00		Pass
HE40	MCS0	2	6	2437	Full	21.17	21.81	24.51	30.00		-1.90		22.61		36.00		Pass
HE40	MCS0	2	9	2452	Full	19.16	19.63	22.41	30.00		-1.90		20.51		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Average Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant12	Ant7	SUM	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	
EHT20	MCS0	2	1	2412	Full	14.50	14.40	17.46	30.00		-1.90		15.56		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	5.70	4.40	8.11	30.00		-1.90		6.21		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	8.30	7.50	10.93	30.00		-1.90		9.03		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	11.20	10.80	14.01	30.00		-1.90		12.11		36.00		Pass
EHT20	MCS0	2	1	2412	52+26/38+1	9.80	9.40	12.61	30.00		-1.90		10.71		36.00		Pass
EHT20	MCS0	2	1	2412	106+26/53+4	12.30	11.80	15.07	30.00		-1.90		13.17		36.00		Pass
EHT20	MCS0	2	6	2437	Full	15.50	15.80	18.66	30.00		-1.90		16.76		36.00		Pass
EHT20	MCS0	2	11	2462	Full	14.30	14.50	17.41	30.00		-1.90		15.51		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	4.70	4.80	7.76	30.00		-1.90		5.86		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	7.70	7.90	10.81	30.00		-1.90		8.91		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	10.70	11.00	13.86	30.00		-1.90		11.96		36.00		Pass
EHT20	MCS0	2	11	2462	52+26/39+7	9.20	9.60	12.41	30.00		-1.90		10.51		36.00		Pass
EHT20	MCS0	2	11	2462	106+26/54+4	11.80	12.00	14.91	30.00		-1.90		13.01		36.00		Pass
EHT40	MCS0	2	3	2422	Full	15.20	15.40	18.31	30.00		-1.90		16.41		36.00		Pass
EHT40	MCS0	2	6	2437	Full	14.90	15.20	18.06	30.00		-1.90		16.16		36.00		Pass
EHT40	MCS0	2	9	2452	Full	12.70	13.10	15.91	30.00		-1.90		14.01		36.00		Pass

Setting	
Ant12	Ant7
15.00	
5.50	
8.00	
11.00	
9.50	
12.00	
16.00	
15.00	
5.00	
8.00	
11.00	
9.50	
12.00	
15.50	
15.50	
13.50	

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant12	Ant7	SUM	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	Ant12	Ant7	
EHT20	MCS0	2	1	2412	Full	23.72	23.64	26.69	30.00		-1.90		24.79		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	16.66	15.71	19.22	30.00		-1.90		17.32		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	19.14	18.26	21.73	30.00		-1.90		19.83		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	21.21	20.06	23.68	30.00		-1.90		21.78		36.00		Pass
EHT20	MCS0	2	1	2412	52+26/38+1	20.16	19.95	23.07	30.00		-1.90		21.17		36.00		Pass
EHT20	MCS0	2	1	2412	106+26/53+4	23.25	22.57	25.93	30.00		-1.90		24.03		36.00		Pass
EHT20	MCS0	2	6	2437	Full	21.69	22.28	25.01	30.00		-1.90		23.11		36.00		Pass
EHT20	MCS0	2	11	2462	Full	20.85	21.32	24.10	30.00		-1.90		22.20		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	13.37	13.48	16.44	30.00		-1.90		14.54		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	16.81	16.92	19.88	30.00		-1.90		17.98		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	19.50	20.07	22.80	30.00		-1.90		20.90		36.00		Pass
EHT20	MCS0	2	11	2462	52+26/39+7	17.91	18.36	21.15	30.00		-1.90		19.25		36.00		Pass
EHT20	MCS0	2	11	2462	106+26/54+4	20.67	21.11	23.91	30.00		-1.90		22.01		36.00		Pass
EHT40	MCS0	2	3	2422	Full	24.33	24.65	27.50	30.00		-1.90		25.60		36.00		Pass
EHT40	MCS0	2	6	2437	Full	21.38	21.99	24.71	30.00		-1.90		22.81		36.00		Pass
EHT40	MCS0	2	9	2452	Full	19.32	19.82	22.59	30.00		-1.90		20.69		36.00		Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO											
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant12	Ant7	Ant12	Ant7		
EHT20	MCS0	1	1	2412	Full	18.96	18.93	19.08	19.00	0.50	Pass
EHT20	MCS0	1	1	2412	26/0	---	---	2.38	2.30	0.50	Pass
EHT20	MCS0	1	6	2437	Full	19.13	19.17	19.15	19.23	0.50	Pass
EHT20	MCS0	1	11	2462	Full	19.21	19.14	19.20	19.23	0.50	Pass
EHT20	MCS0	1	11	2462	26/8	---	---	2.13	2.15	0.50	Pass
EHT40	MCS0	1	3	2422	Full	38.16	38.03	38.28	38.08	0.50	Pass
EHT40	MCS0	1	6	2437	Full	38.40	38.47	38.24	38.28	0.50	Pass
EHT40	MCS0	1	9	2452	Full	38.63	38.58	38.40	38.28	0.50	Pass

TEST RESULTS DATA
Peak Power Spectral Density

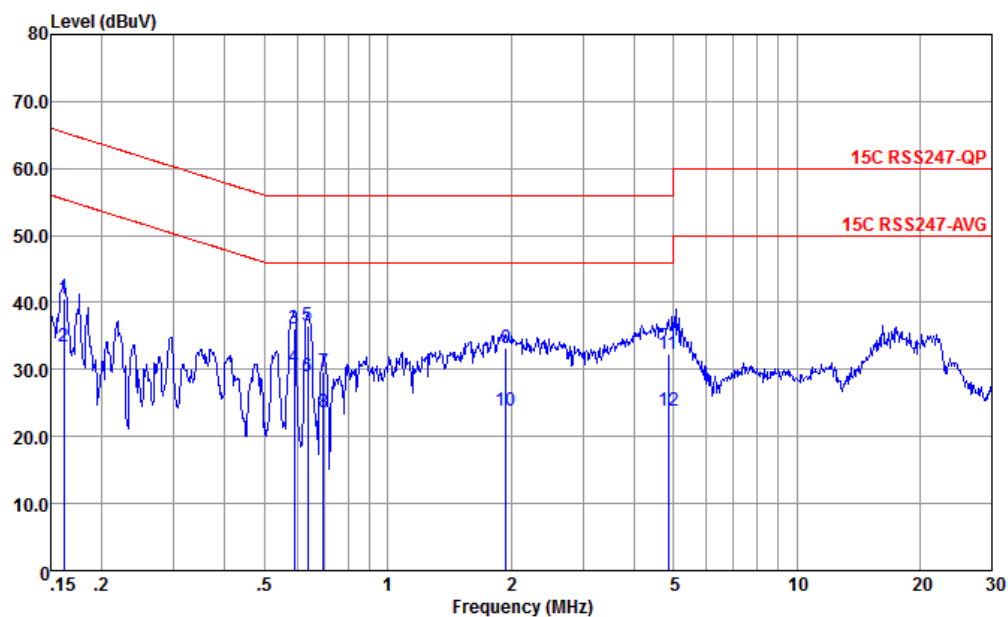
2.4GHz Band MIMO													
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant12	Ant7	Worse + 3.01	Ant12	Ant7	Ant12	Ant7	
EHT20	MCS0	2	1	2412	Full	-11.41	-11.37	-8.36	1.11		8.00		Pass
EHT20	MCS0	2	1	2412	26/0	-11.99	-12.53	-8.98	1.11		8.00		Pass
EHT20	MCS0	2	1	2412	52/37	-11.72	-12.56	-8.71	1.11		8.00		Pass
EHT20	MCS0	2	1	2412	106/53	-11.58	-12.42	-8.57	1.11		8.00		Pass
EHT20	MCS0	2	1	2412	52+26/38+1	-11.76	-12.00	-8.75	1.11		8.00		Pass
EHT20	MCS0	2	1	2412	106+26/53+4	-11.45	-11.95	-8.44	1.11		8.00		Pass
EHT20	MCS0	2	6	2437	Full	-10.87	-10.93	-7.86	1.11		8.00		Pass
EHT20	MCS0	2	11	2462	Full	-11.81	-11.30	-8.29	1.11		8.00		Pass
EHT20	MCS0	2	11	2462	26/8	-11.91	-11.52	-8.51	1.11		8.00		Pass
EHT20	MCS0	2	11	2462	52/40	-11.82	-11.54	-8.53	1.11		8.00		Pass
EHT20	MCS0	2	11	2462	106/54	-12.21	-11.45	-8.44	1.11		8.00		Pass
EHT20	MCS0	2	11	2462	52+26/39+7	-11.94	-11.67	-8.66	1.11		8.00		Pass
EHT20	MCS0	2	11	2462	106+26/54+4	-11.91	-11.51	-8.50	1.11		8.00		Pass
EHT40	MCS0	2	3	2422	Full	-14.20	-14.41	-11.19	1.11		8.00		Pass
EHT40	MCS0	2	6	2437	Full	-12.77	-12.65	-9.64	1.11		8.00		Pass
EHT40	MCS0	2	9	2452	Full	-16.15	-16.26	-13.14	1.11		8.00		Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. AC Conducted Emission Test Results

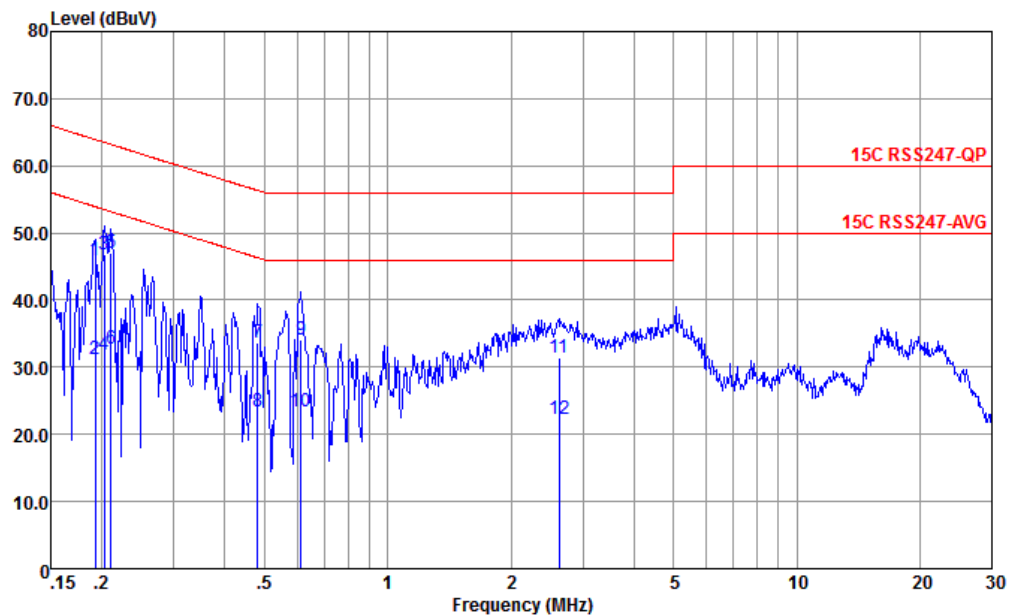
Test Engineer :	Amos	Temperature :	25.3 ~ 26.2°C
		Relative Humidity :	38 ~ 40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-L 24+80 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.162	40.59	-24.79	65.38	29.90	0.24	10.45	QP
2	0.162	33.49	-21.89	55.38	22.80	0.24	10.45	Average
3	0.592	36.14	-19.86	56.00	25.40	0.37	10.37	QP
4 *	0.592	30.34	-15.66	46.00	19.60	0.37	10.37	Average
5	0.637	36.63	-19.37	56.00	25.90	0.37	10.36	QP
6	0.637	29.03	-16.97	46.00	18.30	0.37	10.36	Average
7	0.697	29.62	-26.38	56.00	18.90	0.38	10.34	QP
8	0.697	23.52	-22.48	46.00	12.80	0.38	10.34	Average
9	1.949	33.26	-22.74	56.00	22.60	0.42	10.24	QP
10	1.949	23.86	-22.14	46.00	13.20	0.42	10.24	Average
11	4.848	32.31	-23.69	56.00	21.70	0.41	10.20	QP
12	4.848	23.81	-22.19	46.00	13.20	0.41	10.20	Average

Test Engineer :	Amos	Temperature :	25.3 ~ 26.2°C
		Relative Humidity :	38 ~ 40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-N 24+80 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.192	45.90	-18.03	63.93	35.20	0.24	10.46	QP
2	0.192	31.30	-22.63	53.93	20.60	0.24	10.46	Average
3	0.203	46.80	-16.69	63.49	36.10	0.24	10.46	QP
4	0.203	31.90	-21.59	53.49	21.20	0.24	10.46	Average
5 *	0.211	46.91	-16.27	63.18	36.20	0.25	10.46	QP
6	0.211	32.81	-20.37	53.18	22.10	0.25	10.46	Average
7	0.481	33.56	-22.76	56.32	22.80	0.34	10.42	QP
8	0.481	23.36	-22.96	46.32	12.60	0.34	10.42	Average
9	0.614	34.13	-21.87	56.00	23.40	0.36	10.37	QP
10	0.614	23.33	-22.67	46.00	12.60	0.36	10.37	Average
11	2.622	31.62	-24.48	56.00	20.90	0.39	10.23	QP
12	2.622	22.22	-23.78	46.00	11.60	0.39	10.23	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Relative Humidity :	50%
		Temperature :	20-22℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 22	2400-2483.5	CDD 12+7	802.11b	01	2412	1Mbps	-	-
Mode 23	2400-2483.5	CDD 12+7	802.11b	06	2437	1Mbps	-	-
Mode 24	2400-2483.5	CDD 12+7	802.11b	11	2462	1Mbps	-	-
Mode 25	2400-2483.5	CDD 12+7	802.11g	01	2412	6Mbps	-	-
Mode 26	2400-2483.5	CDD 12+7	802.11g	06	2437	6Mbps	-	-
Mode 27	2400-2483.5	CDD 12+7	802.11g	11	2462	6Mbps	-	-
Mode 28	2400-2483.5	CDD 12+7	802.11be EHT20	01	2412	MCS0	Full RU	-
Mode 29	2400-2483.5	CDD 12+7	802.11be EHT20	06	2437	MCS0	Full RU	-
Mode 30	2400-2483.5	CDD 12+7	802.11be EHT20	11	2462	MCS0	Full RU	-
Mode 31	2400-2483.5	CDD 12+7	802.11be EHT40	03	2422	MCS0	Full RU	-
Mode 32	2400-2483.5	CDD 12+7	802.11be EHT40	06	2437	MCS0	Full RU	-
Mode 33	2400-2483.5	CDD 12+7	802.11be EHT40	09	2452	MCS0	Full RU	-
Mode 34	2400-2483.5	CDD 12+7	802.11be EHT20	01	2412	MCS0	Single RU	106/53
Mode 35	2400-2483.5	CDD 12+7	802.11be EHT20	11	2462	MCS0	Single RU	106/54
Mode 36	2400-2483.5	CDD 12+7	802.11be EHT20	01	2412	MCS0	Small RU	Index 106+26/53+4
Mode 37	2400-2483.5	CDD 12+7	802.11be EHT20	11	2462	MCS0	Small RU	Index 106+26/54+4
Mode 38	2400-2483.5	CDD 12+7	802.11g	11	2462	MCS0	Full RU	LF

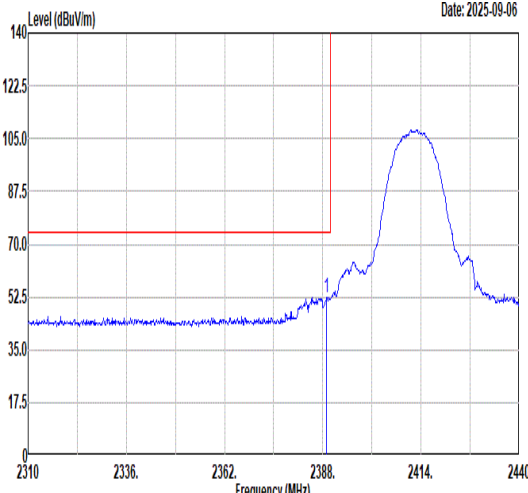
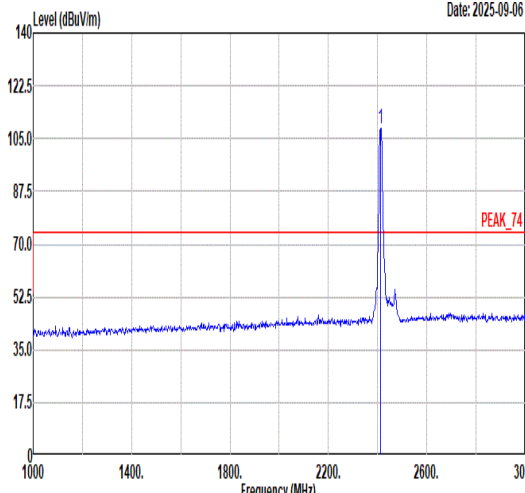
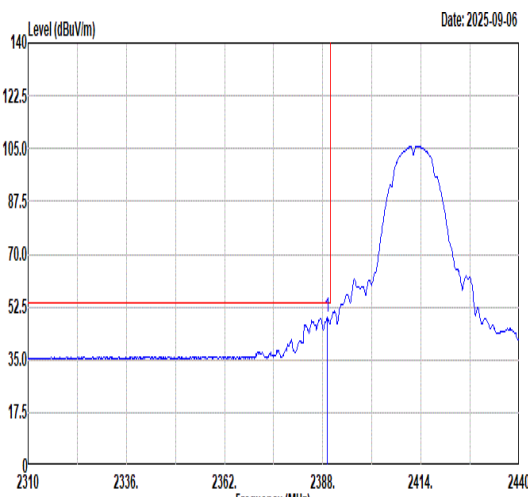
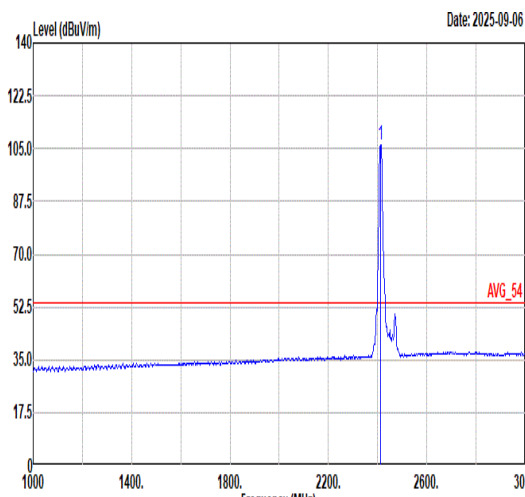
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
22	802.11b	01	2389.17	48.88	54.00	-5.12	H	AVERAGE	Pass	Band Edge
22	802.11b	01	4824.00	44.13	74.00	-29.87	H	Peak	Pass	Harmonic
23	802.11b	06	-	-	-	-	-	-	-	Band Edge
23	802.11b	06	7311.00	46.52	74.00	-27.48	V	Peak	Pass	Harmonic
24	802.11b	11	2485.86	41.56	54.00	-12.44	H	AVERAGE	Pass	Band Edge
24	802.11b	11	7386.00	46.23	74.00	-27.77	V	Peak	Pass	Harmonic
25	802.11g	01	2389.43	49.53	54.00	-4.47	H	AVERAGE	Pass	Band Edge
25	802.11g	01	4824.00	44.57	74.00	-29.43	V	Peak	Pass	Harmonic
26	802.11g	06	-	-	-	-	-	-	-	Band Edge
26	802.11g	06	7311.00	46.53	74.00	-27.47	V	Peak	Pass	Harmonic
27	802.11g	11	2483.51	51.51	54.00	-2.49	H	AVERAGE	Pass	Band Edge
27	802.11g	11	7386.00	45.49	74.00	-28.51	V	Peak	Pass	Harmonic
28	802.11be	01	2388.91	50.12	54.00	-3.88	H	AVERAGE	Pass	Band Edge

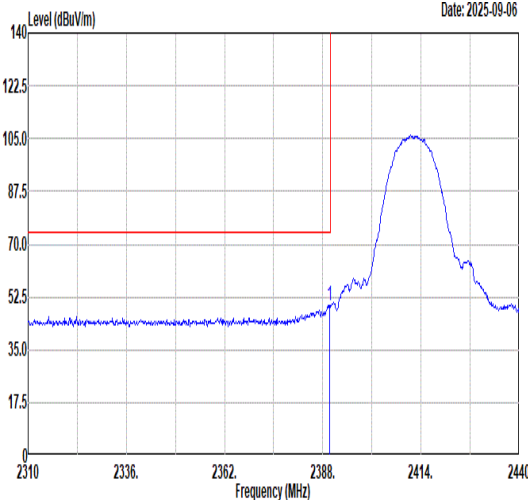
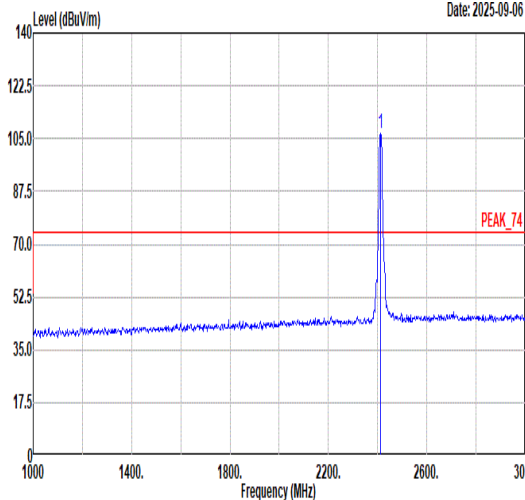
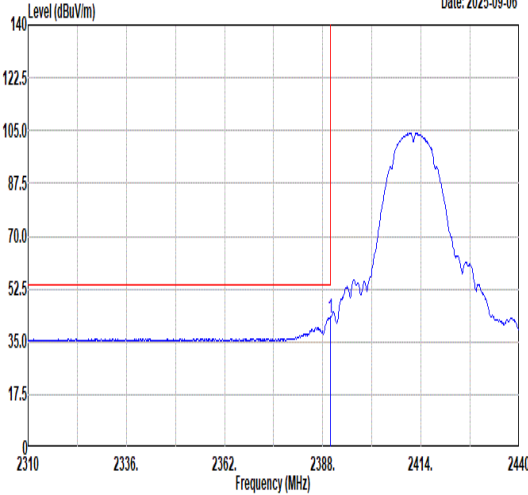
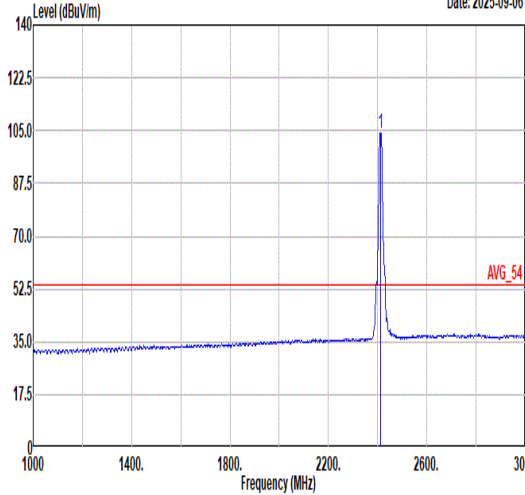


Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
	EHT20									
28	802.11be EHT20	01	4824.00	45.15	74.00	-28.85	V	Peak	Pass	Harmonic
29	802.11be EHT20	06	-	-	-	-	-	-	-	Band Edge
29	802.11be EHT20	06	7311.00	46.38	74.00	-27.62	H	Peak	Pass	Harmonic
30	802.11be EHT20	11	2483.51	50.49	54.00	-3.51	H	AVERAGE	Pass	Band Edge
30	802.11be EHT20	11	7386.00	46.61	74.00	-27.39	V	Peak	Pass	Harmonic
31	802.11be EHT40	03	2389.74	50.21	54.00	-3.79	H	AVERAGE	Pass	Band Edge
31	802.11be EHT40	03	7266.00	45.10	74.00	-28.90	H	Peak	Pass	Harmonic
32	802.11be EHT40	06	2483.56	50.08	54.00	-3.92	V	AVERAGE	Pass	Band Edge
32	802.11be EHT40	06	7311.00	45.48	74.00	-28.52	H	Peak	Pass	Harmonic
33	802.11be EHT40	09	2483.68	48.83	54.00	-5.17	H	AVERAGE	Pass	Band Edge
33	802.11be EHT40	09	7356.00	46.12	74.00	-27.88	V	Peak	Pass	Harmonic
34	802.11be EHT20	01	2389.69	36.90	54.00	-17.10	H	AVERAGE	Pass	Band Edge
34	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
35	802.11be EHT20	11	2483.66	36.86	54.00	-17.14	V	AVERAGE	Pass	Band Edge
35	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
36	802.11be EHT20	01	2389.43	46.46	54.00	-7.54	H	AVERAGE	Pass	Band Edge
36	802.11be EHT20	01	-	-	-	-	-	-	-	Harmonic
37	802.11be EHT20	11	2483.70	40.01	54.00	-13.99	H	AVERAGE	Pass	Band Edge
37	802.11be EHT20	11	-	-	-	-	-	-	-	Harmonic
38	802.11g	11	42.61	31.35	40.00	-8.65	V	Peak	Pass	LF



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ANT	CDD 12+7																																																																																										
Pol.	Horizontal						Fundamental																																																																																				
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Horizontal polarization. The plot shows a peak at 2412 MHz. A red line indicates the limit at 74.00 dBuV/m. The peak level is 108.22 dBuV/m. The date is 2025-09-06. <table><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2389.04</td><td>52.54</td><td>74.00</td><td>-21.46</td><td>47.91</td><td>30.41</td><td>6.86</td><td>32.64</td><td>333</td><td>113</td><td>PEAK</td></tr></table>						Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2389.04	52.54	74.00	-21.46	47.91	30.41	6.86	32.64	333	113	PEAK	 Level (dBuV/m) vs Frequency (MHz) plot for Fundamental polarization. The plot shows a peak at 2412 MHz. A red line indicates the limit at 74.00 dBuV/m. The peak level is 108.22 dBuV/m. The date is 2025-09-06. <table><tr><th>Limit</th><th>Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>(dB)</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2412.00</td><td>108.22</td><td>-----</td><td>-----</td><td>103.54</td><td>30.43</td><td>6.89</td><td>32.64</td><td>333</td><td>113</td><td>PEAK</td></tr></table>					Limit	Margin	Read	Ant	Cable	Preamp	APos	TPos	Remark	Freq	Level	Line	(dB)	Level	Factor	Loss	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2412.00	108.22	-----	-----	103.54	30.43	6.89	32.64	333	113	PEAK
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