

TEST REPORT

FCC UNII ax Test for VCLB0ZZZAN
Certification

APPLICANT
Hyundai Mobis Co., Ltd

REPORT NO.
HCT-RF-2605-FC028-R1

DATE OF ISSUE
June 12, 2026

Tested by
Kyung Jun Woo



Technical Manager
Jong Seok Lee



Accredited by KOLAS, Republic of KOREA

HCT CO., LTD.
BongJai Huh
BongJai Huh / CEO

**HCT CO.,LTD.**

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Tel. +82 31 645 6300 Fax. +82 31 645 6401

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Applicant

Hyundai Mobis Co., Ltd

203, Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

Product Name

Car infotainment system

Model Name

VCLB0ZZZAN

FCC ID

TQ8-VCLB0ZZZAN

Date of Test

March 26, 2026 ~ May 29, 2026

FCC Classification

Unlicensed National Information Infrastructure(NII)

Test Standard Used

FCC Rule Part(s): Part 15.407

Test Results

PASS

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	May 29, 2026	Initial Release
1	June 12, 2026	Revised antenna gain, Conducted power limit, and PSD limit

Notice

Content

Engineering Statement:

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA.
(KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

This test report provides test result(s) under the lab's valid Scope of Accreditation by A2LA (American Association for Laboratory Accreditation), signatory of the ILAC-MRA.
(A2LA (ISO/IEC 17025) Certificate No. 4114.01)

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1. GENERAL INFORMATION

EUT DESCRIPTION

Model	VCLB0ZZZAN	
Additional Model	VCLC0ZZZXX, VCLB0ZZZXX, VCLC0ZZZAN, VCLB0ZZZKN, VCLC0ZZZKN, VCLB0ZZZFN, VCLC0ZZZFN, VCL10ZZZXX, VCL20ZZZXX, VCL10ZZZAN, VCL20ZZZAN, VCL10ZZZKN, VCL20ZZZKN, VCL10ZZZFN, VCL20ZZZFN, VCL30ZZZXX, VCL30ZZZAN, VCL30ZZZKN, VCL30ZZZFN, VCL40ZZZXX, VCL40ZZZAN, VCL40ZZZKN, VCL40ZZZFN, VCL60ZZZXX, VCL60ZZZAN, VCL60ZZZKN, VCL60ZZZFN	
EUT Type	Car infotainment system	
Power Supply	DC 14.4 V	
Modulation Type	OFDM : 802.11ax (HE20/40/80) OFDMA : 802.11ax (HE20/40/80)	
Frequency Range (MHz)	U-NII-1	20 MHz BW : 5180 - 5240 40 MHz BW : 5190 - 5230 80 MHz BW : 5210
	U-NII-3	20 MHz BW : 5745 - 5805 40 MHz BW : 5755 - 5795 80 MHz BW : 5775
Antenna Information	Please refer to the Antenna Specification document.	
Serial number	Conducted : 00 QRFQ300002 Radiated : 00 QRFQ300003	

ANTENNA CONFIGURATIONS

1. Antenna configuration

Configurations	SISO		MIMO	
	Ant.1	Ant.2	CDD	SDM
802.11ax (HE20/40/80)	O	O	O	O

Note:

- (1) O = Support, X = Not Support
- (2) SISO = Single Input Single Output
- (3) SDM = Spatial Diversity Multiplexing
- (4) CDD = Cyclic Delay Diversity

2.This device supports simultaneous transmission operation, which allows for two channels to operate independent of one another in the 2.4 GHz and 5 GHz Bands simultaneously on each antenna.

Simultaneous transmission Scenario	5 GHz WiFi Ant.1	5 GHz WiFi Ant.2	BT Ant	Test Case
BT ANT + 5 GHz WiFi MIMO	on	on	on	Scenario
BT ANT + 5 GHz WiFi ANT.1	on	-	on	-
BT ANT + 5 GHz WiFi ANT.2	-	on	on	-

3. Directional Gain Calculation

According to KDB 662911 D01 Multiple Transmitter Output v02r01 F) 2) e) (iii), f) ii)

$$\text{Directional Gain(CDD)} = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$\text{Directional gain(SDM)} = G_{\max} + 10 \cdot \text{LOG}(N_{ANT} / N_{SS})$$

Band	Ant Gain (dBi)		N _{ANT} / N _{SS}	Directional Gain (dBi)	
	ANT.1	ANT.2		CDD	SDM
UNII 1	4.30	5.00	2 / 2	7.67	5.00
UNII 3	4.70	4.00		7.37	4.70

Note

According to Ansi C63.10-2020 section 14.6.3, the directional gain is calculated using the formula, where G_N is the gain of the nth antenna and N_{ANT} is the total number of antennas used.

$$\text{Directional gain(CDD)} = 10 \cdot \log \left(\left(10^{(\text{ANT.1 Gain}/20)} + 10^{(\text{ANT.2 Gain}/20)} \right)^2 / 2 \right) \text{ dBi}$$

$$\text{Directional gain(SDM)} = G_{\max} + 10 \cdot \text{LOG}(N_{ANT} / N_{SS})$$

Sample Calculation (Conducted Power, MIMO):

Ex) ANT.1 : 11.58 dBm ANT.2 : 12.08 dBm

$$\text{ANT.1} + \text{ANT.2} = \text{MIMO}$$

$$(11.58 \text{ dBm} + 12.08 \text{ dBm}) = (14.387 \text{ mW} + 16.143 \text{ mW}) = 30.53 \text{ mW} = 14.88 \text{ dBm}$$

Sample Calculation (E.I.R.P & E.I.R.P Spectral Density, MIMO):

Ex) ANT.1 : 15.35 dBm , ANT.2 : 15.12 dBm, Directional Gain : 3 dBi

$$\text{Conducted Power} = (15.35 \text{ dBm} + 15.12 \text{ dBm}) = (34.276 \text{ mW} + 32.508 \text{ mW}) = 66.784 \text{ mW} = 18.25 \text{ dBm}$$

$$\text{E.I.R.P} = 18.25 \text{ dBm} + 3 \text{ dBi} = 21.25 \text{ dBm}$$

2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted average output power as follows:

Band	Mode	MIMO_CDD(Ant.1+ Ant.2)					
		Ant.1 Power		Ant.2 Power		(Ant.1 + Ant.2) Power	
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)
UNII1	802.11ax(HE20)	7.81	0.006	8.38	0.007	11.11	0.013
	802.11ax(HE40)	7.30	0.005	7.98	0.006	10.67	0.012
	802.11ax(HE80)	7.75	0.006	8.24	0.007	11.02	0.013
UNII3	802.11ax(HE20)	7.92	0.006	8.02	0.006	10.98	0.013
	802.11ax(HE40)	7.66	0.006	7.90	0.006	10.80	0.012
	802.11ax(HE80)	7.47	0.006	7.57	0.006	10.53	0.011

3. TEST METHODOLOGY

Unlicensed wireless device were tested using the following measurement procedure.

[1] KDB 789033 D02 15.407 Meas Guidance v02r01.

[2] ANSI C63.10-2020 + Cor. 1-2023

Note : Here in after, ANSI C63.10-2020 + Cor. 1-2023 will be referred to as ANSI C63.10-2020

EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E.

GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

According to the requirements in Section 6.3 ~ Section 6.6 of ANSI C63.10-2020.

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1 GHz. Above 1 GHz with 1.5 m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes.

DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment's, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea. The site is constructed in conformance with the requirements of ANSI C63.4-2014 and CISPR Publication 22.

Detailed description of test facility was submitted to the Commission and accepted dated February 26, 2026 (Registration Number: KR0032).

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, "American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz".

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR § 15.203, § 15.407:

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

7. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence.

The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ($\pm$ kHz)
X dB, 99% Bandwidth	95 (Confidence level about 95 %, $k=2$)
Frequency stability	28 (Confidence level about 95 %, $k=2$)

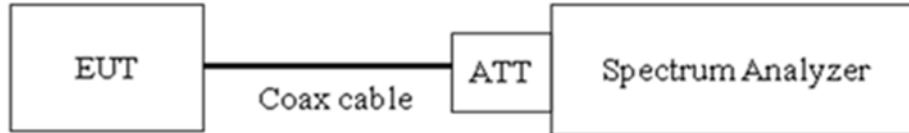
Parameter	Expanded Uncertainty ($\pm$ dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.96 (Confidence level about 95 %, $k=2$)
Conducted Output Power(Power Meter)	0.54 (Confidence level about 95 %, $k=2$)
Conducted Output Power(Signal Analyzer)	0.73 (Confidence level about 95 %, $k=2$)
Power Spectral Density	0.98 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.54 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.80 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.86 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.44 (Confidence level about 95 %, $k=2$)

8. DESCRIPTION OF TESTS

Test Item	Test Procedure
Duty Cycle	- KDB 789033 D02 – Section B.2
6 dB Bandwidth & 26dB Bandwidth	- KDB 789033 D02 - Section C
Output Power	- KDB 789033 D02 - Section E
Power Spectral Density	- KDB 789033 D02 - Section F
Frequency Stability	- ANSI C63.10-2020 - Section 6.8
AC Power line Conducted Emissions	- ANSI C63.10-2020– Section 6.2
Radiated Test	- KDB 789033 D02 – Section II.G - ANSI C63.10-2020 – Section 6.4 (Below 30 MHz) - ANSI C63.10-2020 – Section 6.5 (30 MHz to 1000 MHz) - ANSI C63.10-2020 – Section 6.6 (1 GHz to 40 GHz) - ANSI C63.10-2020 – Section 6.10 & 12.7 (Unwanted emissions)

8.1. Duty Cycle

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

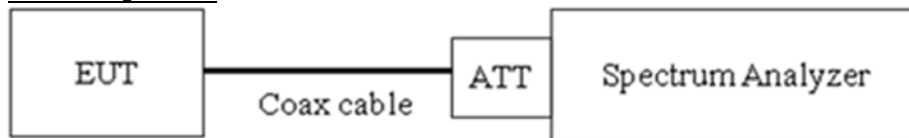
1. RBW = 8 MHz (the largest available value)
2. VBW = 8 MHz ($\geq$ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = $T_{\text{on}} / T_{\text{total}}$ and Duty Cycle Factor = $10\log(1/\text{Duty Cycle})$

8.2. 6 dB Bandwidth & 26 dB Bandwidth

Limit

Within the 5.725-5.85 GHz(NII-3), the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Configuration



Test Procedure (26 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.
The Spectrum Analyzer is set to

1. RBW = approximately 1 % of the emission bandwidth
2. VBW > RBW
3. Detector = Peak
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %.

Test Procedure (6 dB Bandwidth)

The transmitter output is connected to the Spectrum Analyzer.
The Spectrum Analyzer is set to

1. RBW = 100 kHz
2. VBW $\geq 3 \times$ RBW
3. Detector = Peak
4. Trace mode = max hold
5. Allow the trace to stabilize
6. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points(upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note:

1. We tested X dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer.

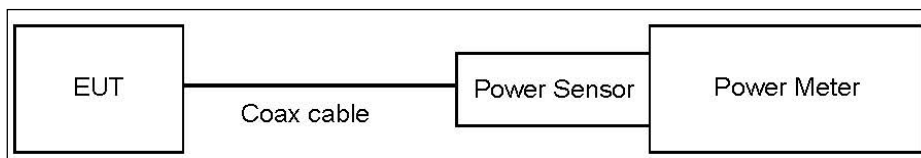
8.3. Output Power Measurement

Limit

Band	Limit
UNII 1	- Master : Not exceed 1 W(=30 dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 3	Not exceed 1 W(=30 dBm)

Test Configuration

Power Meter



Test Procedure(Power Meter)

The transmitter output is connected to the Power Meter.

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Sample Calculation

Total Power(dBm) = Measured Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1	20.84
UNII 3	20.84

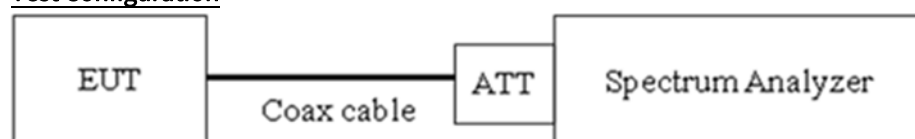
(Actual value of loss for the attenuator and cable combination)

8.4. Power Spectral Density

Limit

Band	Limit
UNII 1	11 dBm/MHz
UNII 3	30 dBm/500 kHz

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

The Spectrum Analyzer is set to

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(510 kHz for UNII 3)
→For portion within the NII-3 be used RBW 510kHz
3. VBW $\geq$ 3 MHz
4. Number of points in sweep $\geq$ 2 x span/RBW.
5. Sweep time = auto.
6. Detector = RMS(i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run”.
8. Trace average at least 100 traces in power averaging(RMS) mode
9. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.
10. If Method SA-2 was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.

Sample Calculation

Total PSD(dBm) = Measured Value(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Values are not plot data.

The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.

2. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1	20.84
UNII 3	20.84

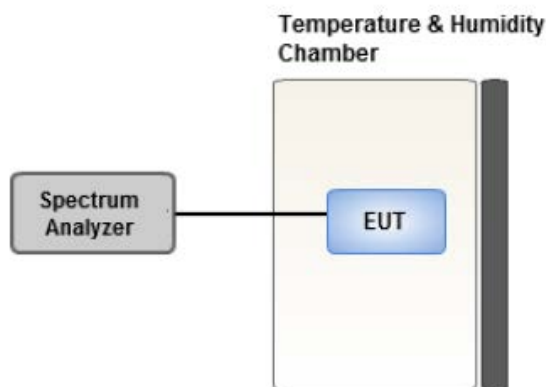
(Actual value of loss for the attenuator and cable combination)

8.5. Frequency Stability

Limit

Maintained within the band

Test Configuration



Test Procedure

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -30 °C and 50 °C.
2. The temperature was incremented by 10 °C intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.
4. While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.

8.6. AC Power line Conducted Emissions

Limit

For an intentional radiator 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56 ^(a)	56 to 46 ^(a)
0.50 to 5	56	46
5 to 30	60	50

^(a)Decreases with the logarithm of the frequency.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Annex A for the actual connections between EUT and support equipment.

Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors: Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Measured Value + Correction Factor

8.7. Radiated Test

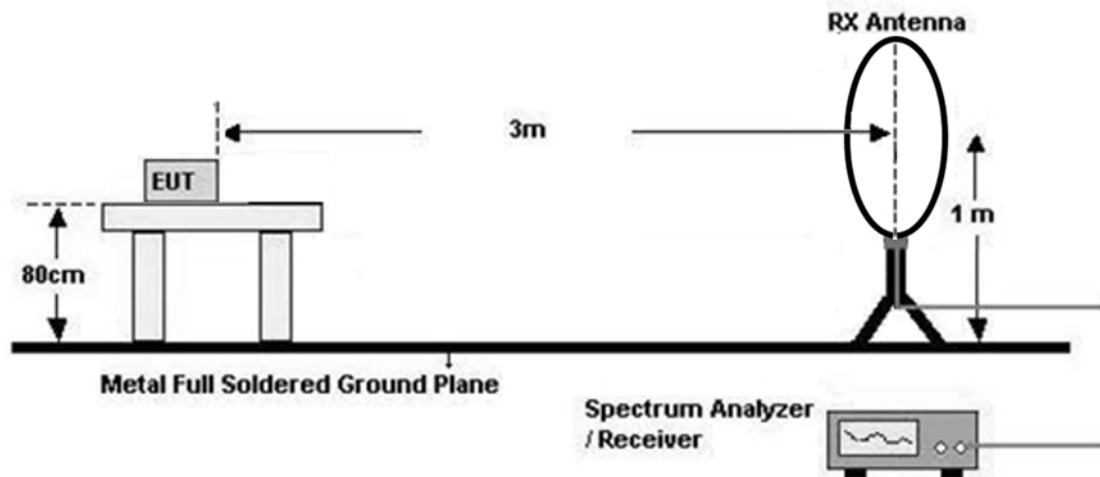
Limit

1. UNII 1: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
2. UNII 3: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
3. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Section 15.209.

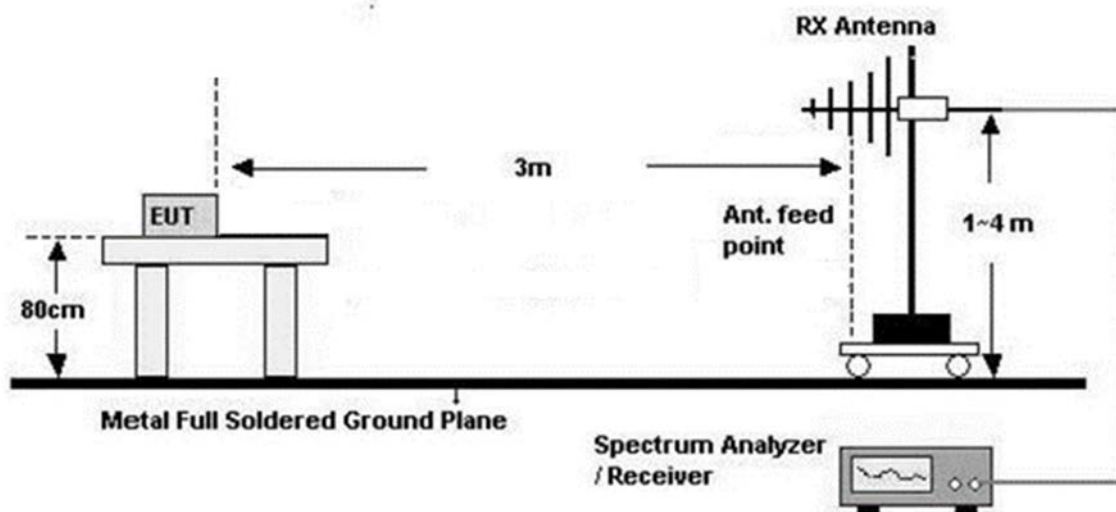
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 – 0.490	$2400/F(\text{kHz})$	300
0.490 – 1.705	$24000/F(\text{kHz})$	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

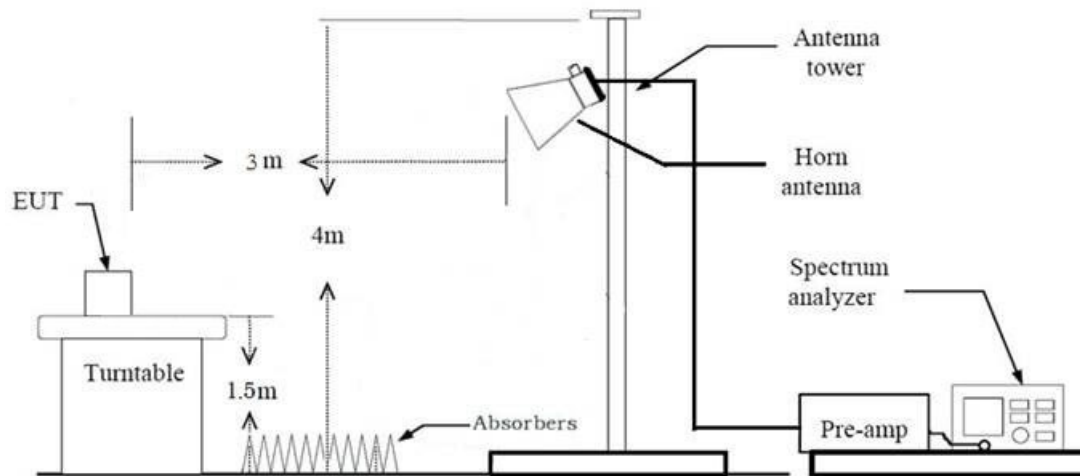
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



Test Procedure of Radiated spurious emissions (Below 30 MHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The loop antenna was placed at a location 3 m from the EUT
3. The EUT is placed on a turntable, which is 0.8m above ground plane.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
6. Distance Correction Factor(0.009 MHz – 0.490 MHz) = $40\log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$
Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) = $40\log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$
Measurement Distance : 3 m
8. Spectrum Analyzer Setting
Measurement Type(Peak) :
 - Frequency Range = 9 kHz ~ 30 MHz
 - Detector = Peak
 - Trace = Max Hold
 - RBW = 9 kHz
 - VBW $\geq 3 \times$ RBW
9. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)
10. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

KDB 414788 OFS and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

Test Procedure of Radiated spurious emissions(Below 1 GHz)

1. The EUT was placed on a non-conductive table located on semi-anechoic chamber.
2. The EUT is placed on a turntable, which is 0.8m above ground plane.
3. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

6. Spectrum Analyzer Setting**(1) Measurement Type(Peak):**

- Measured Frequency Range : 30 MHz – 1 GHz
- Detector = Peak
- Trace = Max Hold
- RBW = 100 kHz
- VBW $\geq$ 3 x RBW

(2) Measurement Type(Quasi-peak):

- Measured Frequency Range : 30 MHz – 1 GHz
- Detector = Quasi-Peak
- RBW = 120 kHz

※In general, (1) is used mainly

7.Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L)

8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

Test Procedure of Radiated spurious emissions (Above 1 GHz)

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Spectrum Analyzer Setting
 - (1) Measurement Type (Peak) :
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep Time = auto
 - Trace mode = Max Hold
 - Allow sweeps to continue until the trace stabilizes.

Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately 1/x, where x is the duty cycle.
 - (2) Measurement Type (Average) :
 - RBW = 1 MHz
 - VBW(Duty cycle $\geq$ 98 percent) = VBW $\leq$ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
 - VBW(Duty cycle is < 98 percent) = VBW $\geq$ 1/T, where T is the minimum transmission duration.
 - The analyzer is set to linear detector mode.
 - Detector = Peak.
 - Sweep time = auto.
 - Trace mode = Max Hold.
 - Allow Max Hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.
8. Measurement value only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor
9. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
10. Distance extrapolation factor = $20\log(\text{test distance} / \text{specific distance})$ (dB)
11. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(A.G)
+ Distance Factor(D.F)

Test Procedure of Radiated Restricted Band Edge

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

7. Spectrum Analyzer Setting**(1) Measurement Type(Peak) :**

- RBW = 1 MHz
- VBW $\geq$ 3 MHz
- Detector = Peak
- Sweep Time = auto
- Trace mode = Max Hold
- Allow sweeps to continue until the trace stabilizes.

Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately $1/x$, where x is the duty cycle.

(2) Measurement Type(Average) :

- RBW = 1 MHz
- VBW(Duty cycle $\geq$ 98 percent) = VBW $\leq$ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
- VBW(Duty cycle is < 98 percent) = VBW $\geq$ 1/T, where T is the minimum transmission duration.
- The analyzer is set to linear detector mode.
- Detector = Peak.
- Sweep time = auto.
- Trace mode = Max Hold.
- Allow Max Hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle.

8. Measured Frequency Range :

- 4 500 MHz ~ 5 150 MHz
- 5 350 MHz ~ 5 460 MHz
- (75 MHz or more below the 5 725 MHz) ~ 5 725 MHz
- 5 850 MHz ~ (75 MHz or more above the 5 850 MHz)

9. Distance extrapolation factor = $20\log$ (test distance / specific distance) (dB)

10. Total

(1) Measurement(Peak)

= Measured Value(Peak)

(2) Measurement(Avg)

= Measured Value (Avg)

- We apply to the offset in the range 1 GHz - 18 GHz.

- The offset = Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F) – Amp. Gain(A.G) + Attenuator (ATT)

The actual setting value of VBW

Mode	Tone	Worst Data rate (Mbps)	Duty Cycle	Duty Cycle Factor (dB)	VBW (1/T) (kHz)	The actual setting value of VBW (Hz)
802.11ax (HE20)	26	MCS0	0.967	0.146	0.359	5 000
	52	MCS0	0.935	0.293	0.698	5 000
	106	MCS0	0.875	0.577	1.403	5 000
	242	MCS0	0.776	1.099	2.840	5 000
802.11ax (HE40)	26	MCS0	0.976	0.107	0.197	5 000
	52	MCS0	0.952	0.213	0.397	5 000
	106	MCS0	0.925	0.340	0.809	5 000
	242	MCS0	0.837	0.772	1.761	5 000
	484	MCS0	0.767	1.155	3.095	5 000
802.11ax (HE80)	26	MCS0	0.986	0.062	0.225	5 000
	52	MCS0	0.974	0.112	0.199	5 000
	106	MCS0	0.960	0.180	0.419	5 000
	242	MCS0	0.914	0.390	0.928	5 000
	484	MCS0	0.849	0.711	1.751	5 000
	996	MCS0	0.754	1.226	3.237	5 000
802.11ax (SU)	BW 20	MCS0	0.757	1.208	3.189	5 000
	BW 40	MCS0	0.747	1.264	3.380	5 000
	BW 80	MCS0	0.741	1.304	3.486	5 000

8.8. Test RU for Tones

BW (MHz)	Tones (T)	RU offset	Test RU offset		
			Low	Mid	High
20	26	0~8	0	4	8
	52	37~40	37	38	40
	106	53~54	53	-	54
	242	61	-	61	-
40	26	0~17	0	9	17
	52	37~44	37	41	44
	106	53~56	53	54	56
	242	61~62	61	-	62
	484	65	-	65	-
80	26	0~36	0	18	36
	52	37~52	37	45	52
	106	53~60	53	57	60
	242	61~64	61	62	64
	484	65~66	65	-	66
	996	67	-	67	-

8.9. Worst case configuration and mode

Conducted test

1. All data rate of operation were investigated and the worst case results are reported.
 - HE20, HE40, HE80 : MCS0
2. VCLB0ZZZAN, Additional Models were tested and the worst case results are reported.
(Worst case : VCLB0ZZZAN)

Radiated test

1. All modes of operation were investigated and the worst case configuration results are reported.
 - Mode : Stand alone + Shark Antenna, Stand alone + Shark Antenna + External accessories
 - Worstcase : Stand alone + Shark Antenna
2. EUT Axis
 - Radiated Spurious Emissions: X
 - Radiated Restricted Band Edge : X
3. All data rate of operation were investigated and the worst case results are reported.
 - HE20, HE40, HE80 : MCS0
4. All Antenna of operation were investigated and the worst case results are reported
 - Antenna Operation Type : SISO, MIMO_CDD(Ant.1+Ant.2), MIMO_SDM(Ant.1+Ant.2)
 - Worstcase : MIMO_CDD(Ant.1+Ant.2)
5. All position of loop antenna were investigated and the test result is a no critical peak found at all positions.
 - Position : Horizontal, Vertical, Parallel to the ground plane
6. All mode(Tone, RU Offset) of operation were investigated and the worst case configuration results are reported
7. VCLB0ZZZAN, Additional Models were tested and the worst case results are reported.
(Worst case : VCLB0ZZZAN)

AC Power line Conducted Emissions

1. We don't perform powerline conducted emission test. The device only employ battery power for operation.

Radiated test(Simultaneous transmission Scenario)

1. Please refer to the [BT LE], [UNII] Test Report.

[RSE Worst case]

Test	BW (MHz)	Tones (T)	Offset
RSE	20	26	4
		SU	-
	40	26	9
		SU	-
	80	26	18
		SU	-

[Bandedge Worst case]

Test	BW (MHz)	Tones (T)	Offset	
			Lower	Upper
Bandedge	20	26	0	8
		52	37	40
		106	53	54
		242	61	61
		SU	-	-
	40	26	0	17
		52	37	44
		106	53	56
		242	61	62
		484	65	65
		SU	-	-
	80	26	0	36
		52	37	52
		106	53	60
		242	61	64
		484	65	66
		996	67	67
		SU	-	-

9. SUMMARY OF TEST RESULTS

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
26 dB Bandwidth	§ 15.407 (for Power Measurement)	N/A	Conducted	PASS
6 dB Bandwidth	§ 15.407(e)	>500 kHz (5725-5850 MHz)(UNII-3)		PASS
Maximum Conducted Output Power	§ 15.407(a)(1),(3)	< 250 mW(5150-5250 MHz) <1 W (5725-5850 MHz)		PASS
Maximum Power Spectral Density	§ 15.407(a)(1),(3)	<11 dBm/ MHz (5150-5250 MHz) <30 dBm/500 kHz(5725-5850 MHz)		PASS
Frequency Stability	§ 15.407(g) § 2.1055	Maintained within the band		PASS (Note3)
AC Conducted Emissions 150 kHz-30 MHz	15.207 15.407(b)(9)	<FCC 15.207 limits		N/A (Note1)
Undesirable Emissions	§ 15.407(b) (1),(4) § 15.35(b)	<-27 dBm/MHz EIRP (UNII1) cf. Section 8.7 (UNII 3)	Radiated	PASS
General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	15.205, 15.407(b)(9),(10)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		PASS

Note:

1. The device only employ battery power for operation.
2. The decision rule applies 'simple acceptance'
3. Please refer to the [UNII] Test Report.

10. TEST RESULT

10.1 DUTY CYCLE

Mode	Tone	Worst Data rate (Mbps)	T _{on} (ms)	T _{total} (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	2.785	2.880	0.967	0.146
	52	MCS0	1.432	1.532	0.935	0.293
	106	MCS0	0.713	0.814	0.875	0.577
	242	MCS0	0.352	0.453	0.776	1.099
802.11ax (HE40)	26	MCS0	5.085	5.212	0.976	0.107
	52	MCS0	2.522	2.649	0.952	0.213
	106	MCS0	1.237	1.338	0.925	0.340
	242	MCS0	0.568	0.678	0.837	0.772
	484	MCS0	0.323	0.422	0.767	1.155
802.11ax (HE80)	26	MCS0	4.445	4.509	0.986	0.062
	52	MCS0	5.034	5.166	0.974	0.112
	106	MCS0	2.388	2.489	0.960	0.180
	242	MCS0	1.078	1.179	0.914	0.390
	484	MCS0	0.571	0.673	0.849	0.711
	996	MCS0	0.309	0.410	0.754	1.226
802.11ax (SU)	BW 20	MCS0	0.314	0.414	0.757	1.208
	BW 40	MCS0	0.296	0.396	0.747	1.264
	BW 80	MCS0	0.287	0.387	0.741	1.304

Note:

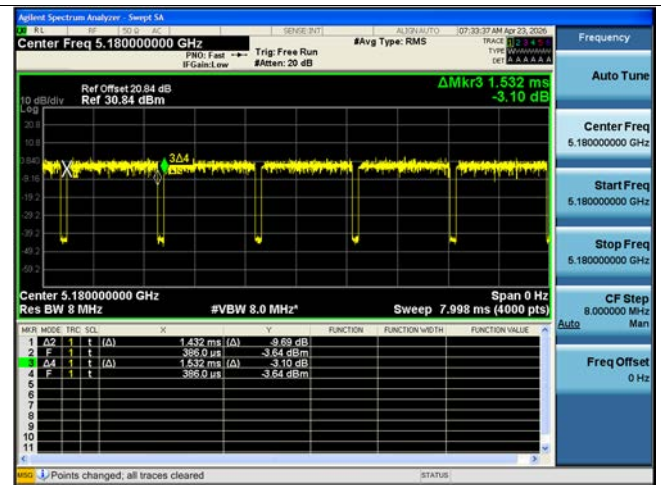
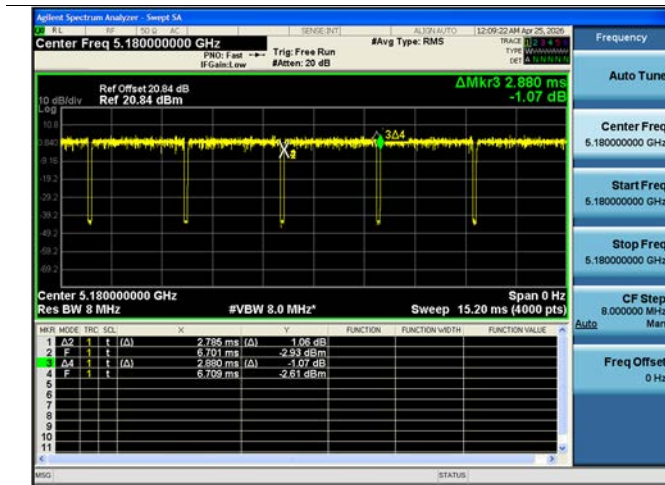
1. Duty Cycle Factor = $10 \cdot \log(1/\text{Duty Cycle})$. where, Duty Cycle = $T_{\text{on}} / T_{\text{total}}$

□ Test Plots(DUTY CYCLE)

[Bandwidth 20M Ch.36(5180 MHz)]

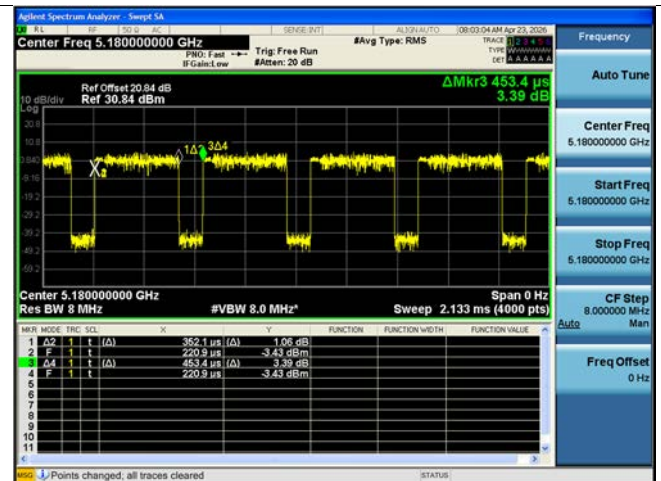
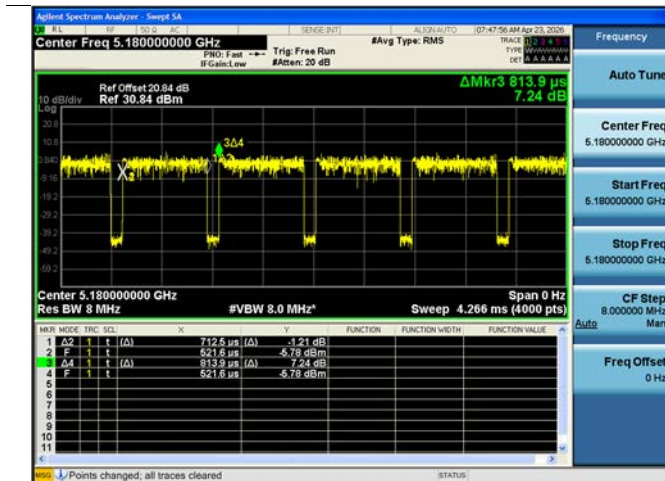
26 Tone MCS 0

52 Tone MCS 0

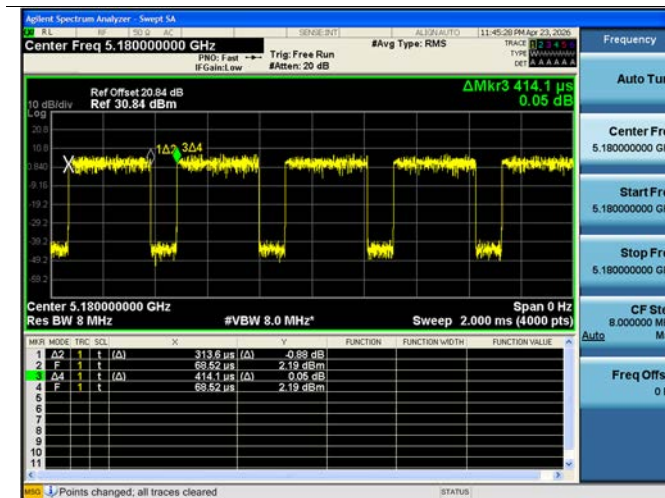


106 Tone MCS 0

242 Tone MCS 0



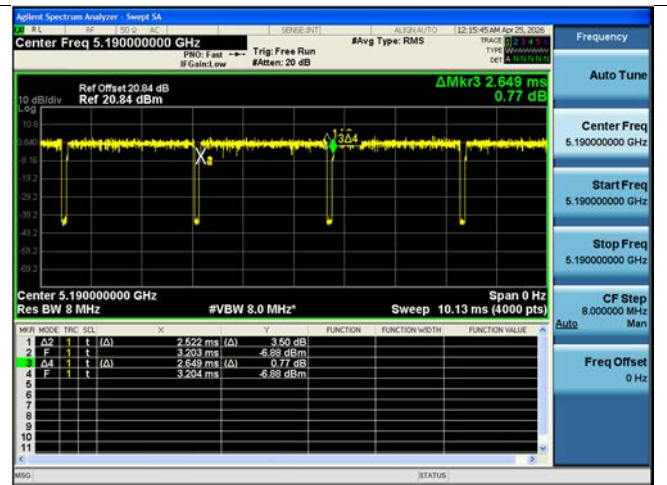
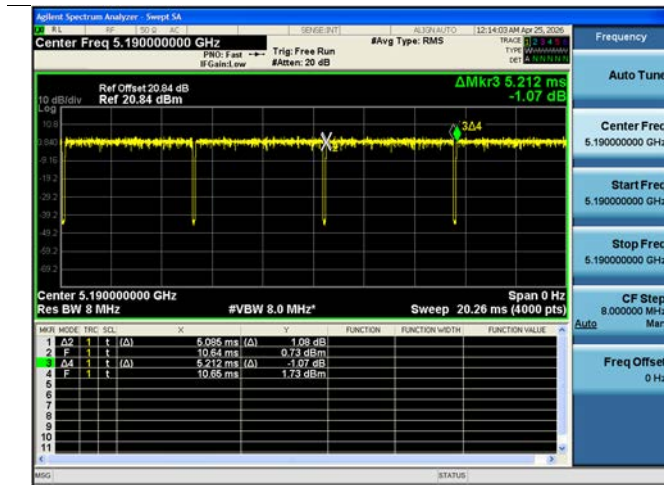
SU MCS 0



[Bandwidth 40M Ch.38(5190 MHz)]

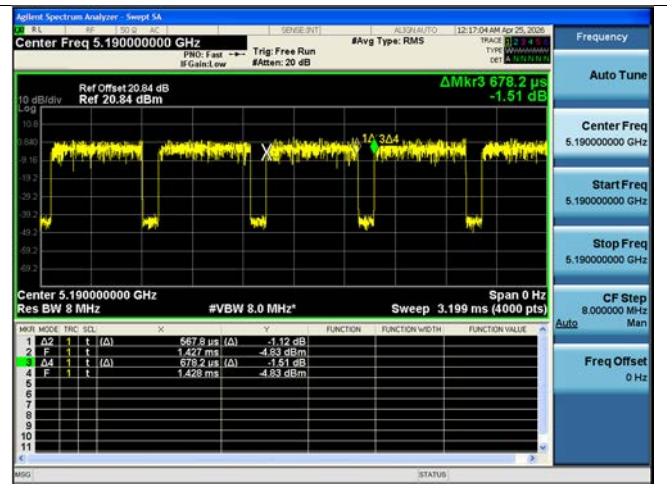
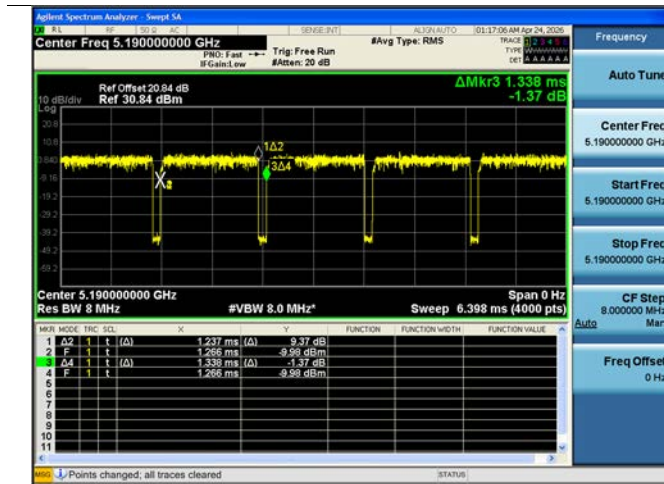
26 Tone MCS 0

52 Tone MCS 0



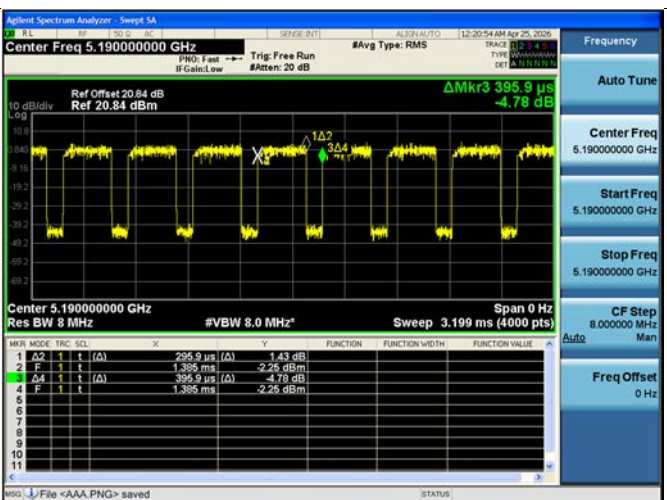
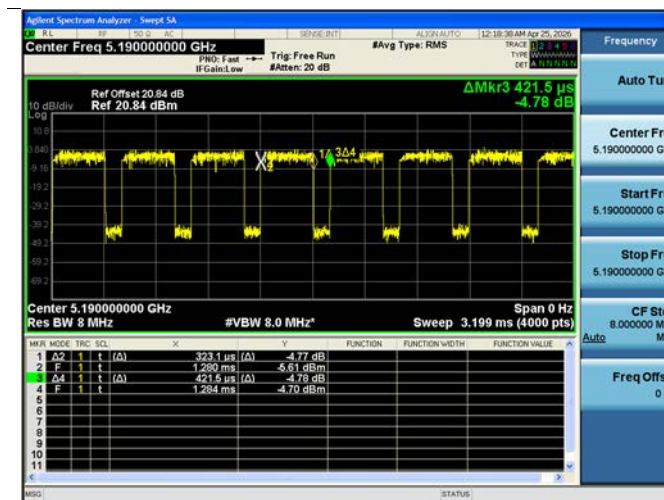
106 Tone MCS 0

242 Tone MCS 0



484 Tone MCS 0

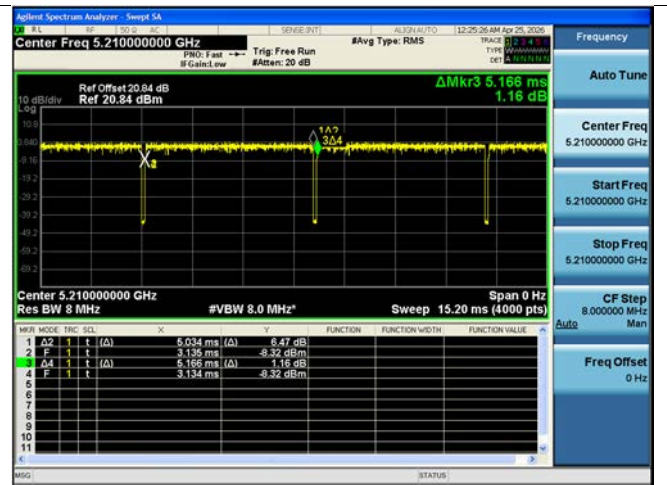
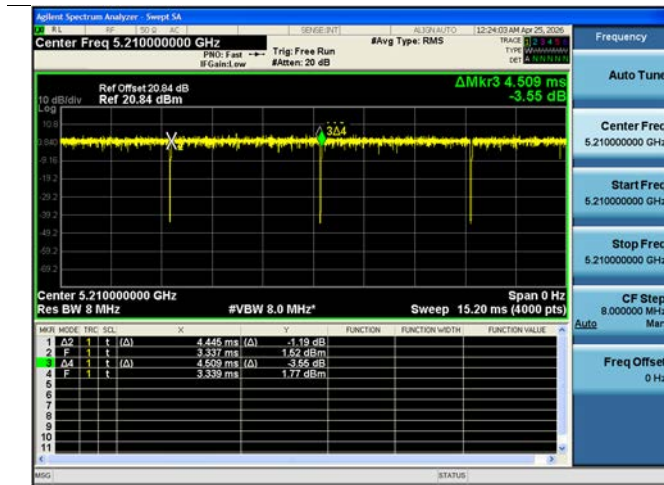
SU MCS 0



[Bandwidth 80M Ch.42(5210 MHz)]

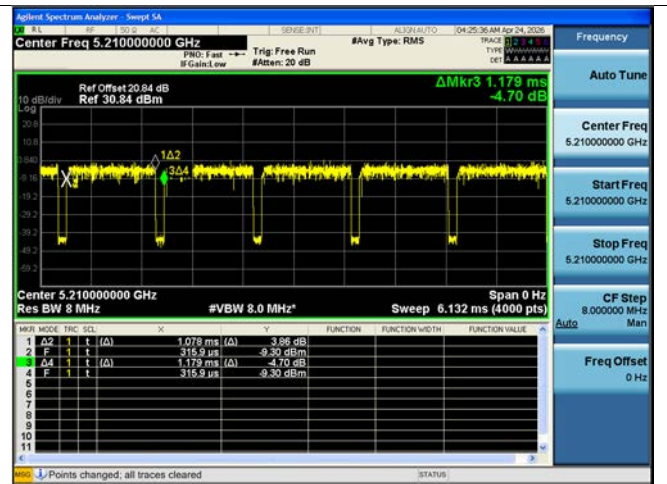
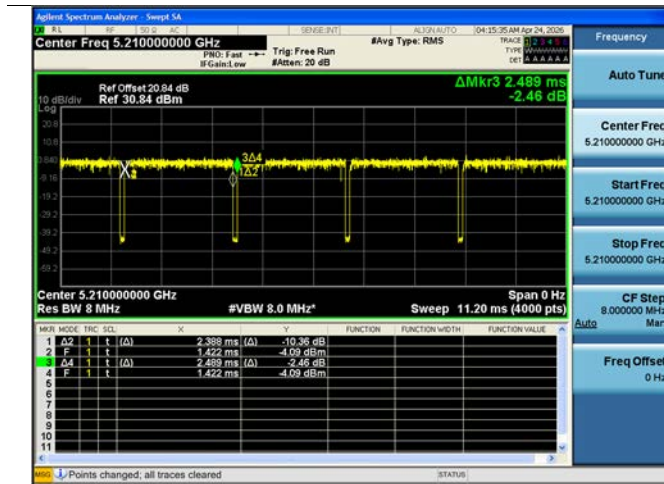
26Tone MCS0

52Tone MCS0



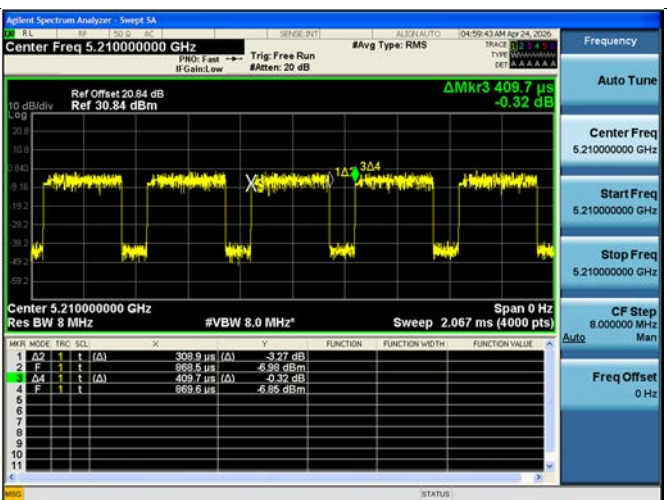
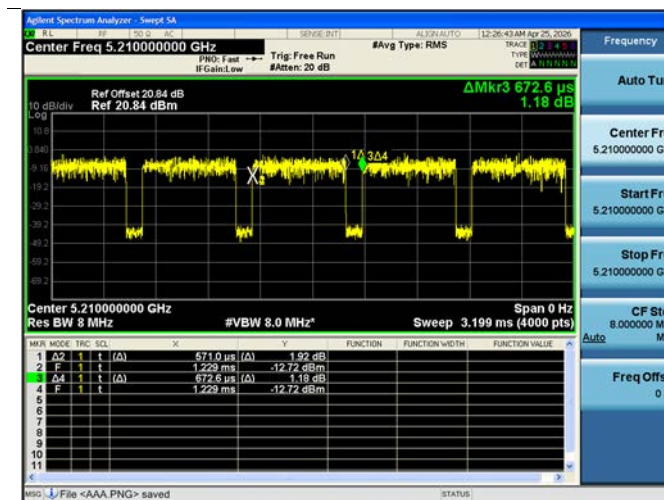
106Tone MCS0

242Tone MCS0

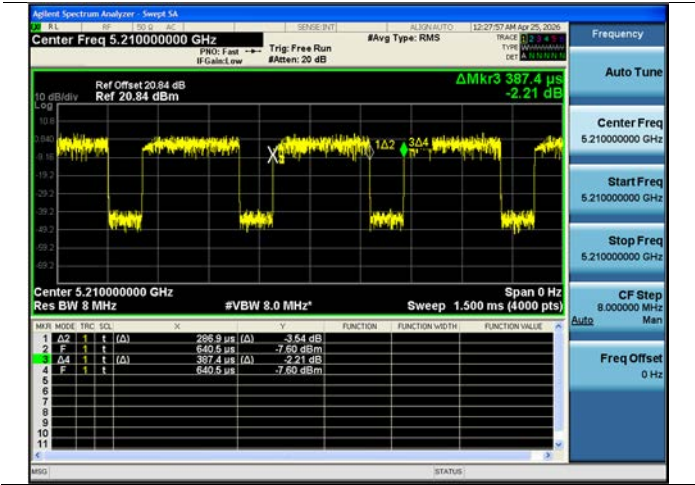


484Tone MCS0

996Tone MCS0



SU MCS 0



Note: In order to simplify the report, attached plots were only the lowest datarate.

10.2 26 dB BANDWIDTH & 99% BANDWIDTH

[Ant.1]

Mode : HE20 26T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5180	36	19.95	18.54	20.05	18.542	17.094	18.588
	5200	40	20.03	18.65	20.16	18.481	17.118	18.637
	5240	48	19.98	18.63	20.00	18.504	17.224	18.604
UNII3	5745	149	19.86	18.65	20.12	18.546	17.166	18.623
	5785	157	19.83	18.57	20.08	18.499	17.169	18.551
	5805	161	19.77	18.63	20.12	18.536	17.202	18.603

Mode : HE20 52T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5180	36	20.15	19.35	20.65	18.339	17.225	18.483
	5200	40	20.19	19.54	20.90	18.313	17.256	18.511
	5240	48	20.19	19.36	20.66	18.345	17.226	18.448
UNII3	5745	149	20.15	19.47	20.91	18.330	17.240	18.473
	5785	157	20.00	19.37	20.67	18.307	17.211	18.470
	5805	161	20.09	19.27	20.68	18.321	17.212	18.459

Mode : HE20 106T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5180	36	20.82	-	21.40	18.260	-	18.376
	5200	40	20.82	-	21.31	18.243	-	18.380
	5240	48	20.87	-	21.28	18.244	-	18.347
UNII3	5745	149	20.74	-	21.36	18.267	-	18.354
	5785	157	20.72	-	21.40	18.257	-	18.341
	5805	161	20.74	-	21.60	18.269	-	18.347

Mode : HE20 242T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5180	36	-	21.79	-	-	19.133	-
	5200	40	-	21.85	-	-	19.107	-
	5240	48	-	21.95	-	-	19.131	-
UNII3	5745	149	-	21.86	-	-	19.181	-
	5785	157	-	21.76	-	-	19.074	-
	5805	161	-	22.05	-	-	19.155	-

Mode : HE20 SU

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5180	36	-	21.43	-	-	19.052	-
	5200	40	-	21.57	-	-	19.083	-
	5240	48	-	21.47	-	-	19.054	-
UNII3	5745	149	-	21.63	-	-	19.039	-
	5785	157	-	21.47	-	-	19.087	-
	5805	161	-	21.60	-	-	19.083	-

Mode : HE40 26T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5190	38	19.80	24.62	21.75	18.549	22.065	18.897
	5230	46	20.38	24.16	20.49	18.871	22.218	19.091
UNII3	5755	151	20.10	23.52	21.37	18.658	21.934	19.255
	5795	159	20.07	25.27	21.14	18.426	22.329	18.767

Mode : HE40 52T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5190	38	20.44	25.71	22.82	18.206	22.013	19.687
	5230	46	20.96	25.84	22.48	18.361	21.839	19.241
UNII3	5755	151	20.74	25.91	22.88	18.363	21.624	19.252
	5795	159	20.58	24.65	23.58	18.222	21.683	19.748

Mode : HE40 106T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5190	38	21.35	26.80	24.73	17.986	20.785	19.436
	5230	46	21.59	27.82	23.37	18.043	21.144	19.177
UNII3	5755	151	21.92	27.34	24.13	17.996	20.798	18.989
	5795	159	21.37	27.90	24.68	17.989	20.636	19.468

Mode : HE40 242T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5190	38	32.28	-	34.98	20.382	-	20.903
	5230	46	33.97	-	33.16	20.891	-	20.702
UNII3	5755	151	32.12	-	32.09	20.421	-	20.878
	5795	159	32.44	-	31.99	20.457	-	21.216

Mode : HE40 484T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5190	38	-	40.33	-	-	37.634	-
	5230	46	-	40.39	-	-	37.588	-
UNII3	5755	151	-	40.20	-	-	37.616	-
	5795	159	-	40.22	-	-	37.511	-

Mode : HE40 SU

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5190	38	-	40.35	-	-	37.653	-
	5230	46	-	40.23	-	-	37.620	-
UNII3	5755	151	-	40.59	-	-	37.609	-
	5795	159	-	40.04	-	-	37.596	-

Mode : HE80 26T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	21.14	39.82	21.67	18.663	37.097	19.002
UNII3	5775	155	25.31	46.76	25.26	22.590	37.587	26.941

Mode : HE80 52T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	20.46	25.15	22.11	18.496	21.390	18.682
UNII3	5775	155	23.85	30.51	27.45	21.544	27.286	24.619

Mode : HE80 106T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	26.28	31.23	23.37	20.718	22.077	19.660
UNII3	5775	155	34.27	42.43	33.17	27.077	29.352	29.068

Mode : HE80 242T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	48.38	62.69	41.88	38.401	43.461	34.586
UNII3	5775	155	54.86	59.99	49.40	36.385	42.242	36.572

Mode : HE80 484T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	60.33	-	71.89	41.948	-	51.342
UNII3	5775	155	68.63	-	74.03	41.387	-	52.589

Mode : HE80 996T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	-	82.79	-	-	77.308	-
UNII3	5775	155	-	82.48	-	-	77.141	-

Mode : HE80 SU

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.1	ANT.1	ANT.1	ANT.1	ANT.1	ANT.1
UNII1	5210	42	-	82.52	-	-	77.281	-
UNII3	5775	155	-	82.20	-	-	77.259	-

[Ant.2]

Mode : HE20 26T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5180	36	19.99	18.60	20.17	18.512	17.206	18.547
	5200	40	19.89	18.57	20.19	18.465	17.136	18.597
	5240	48	19.97	18.65	20.00	18.557	17.238	18.655
UNII3	5745	149	20.07	18.71	20.25	18.530	17.217	18.634
	5785	157	19.82	18.36	20.27	18.451	17.081	18.516
	5805	161	19.81	18.64	20.34	18.439	17.219	18.630

Mode : HE20 52T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5180	36	20.21	19.58	20.65	18.322	17.226	18.465
	5200	40	20.25	19.38	20.86	18.346	17.230	18.480
	5240	48	20.21	19.34	20.67	18.263	17.228	18.478
UNII3	5745	149	20.25	19.52	20.80	18.334	17.247	18.430
	5785	157	20.15	19.39	20.66	18.283	17.223	18.462
	5805	161	20.26	18.95	20.77	18.331	17.147	18.467

Mode : HE20 106T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5180	36	20.90	-	21.38	18.243	-	18.374
	5200	40	21.01	-	21.43	18.270	-	18.363
	5240	48	20.91	-	21.42	18.247	-	18.351
UNII3	5745	149	20.78	-	21.34	18.257	-	18.354
	5785	157	20.70	-	21.19	18.236	-	18.325
	5805	161	20.54	-	21.42	18.201	-	18.356

Mode : HE20 242T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5180	36	-	22.06	-	-	19.111	-
	5200	40	-	21.90	-	-	19.136	-
	5240	48	-	22.09	-	-	19.140	-
UNII3	5745	149	-	22.05	-	-	19.121	-
	5785	157	-	21.74	-	-	19.144	-
	5805	161	-	21.93	-	-	19.152	-

Mode : HE20 SU

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5180	36	-	21.59	-	-	19.114	-
	5200	40	-	21.66	-	-	19.106	-
	5240	48	-	21.51	-	-	19.063	-
UNII3	5745	149	-	21.55	-	-	19.093	-
	5785	157	-	21.59	-	-	19.059	-
	5805	161	-	21.68	-	-	19.046	-

Mode : HE40 26T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5190	38	19.98	23.74	21.32	18.400	22.055	18.872
	5230	46	20.35	24.19	21.13	18.499	22.038	18.824
UNII3	5755	151	19.96	25.34	21.75	18.428	22.703	18.950
	5795	159	20.30	24.23	21.66	18.614	22.284	19.744

Mode : HE40 52T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5190	38	20.04	24.37	22.46	18.228	21.965	19.368
	5230	46	21.03	26.84	23.08	18.300	21.630	19.485
UNII3	5755	151	20.27	26.51	22.22	18.219	22.174	19.518
	5795	159	20.51	26.95	22.96	18.226	22.084	19.683

Mode : HE40 106T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5190	38	20.88	27.84	23.82	17.997	21.057	19.044
	5230	46	24.37	27.69	23.72	18.017	20.770	19.155
UNII3	5755	151	21.58	26.87	23.44	17.975	20.901	19.108
	5795	159	21.10	27.74	24.26	18.028	20.740	19.332

Mode : HE40 242T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5190	38	32.42	-	35.34	20.728	-	20.898
	5230	46	34.12	-	30.32	21.166	-	20.743
UNII3	5755	151	33.69	-	32.04	20.718	-	20.963
	5795	159	30.69	-	34.20	20.459	-	21.383

Mode : HE40 484T

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5190	38	-	40.24	-	-	37.534	-
	5230	46	-	40.12	-	-	37.658	-
UNII3	5755	151	-	40.19	-	-	37.636	-
	5795	159	-	40.33	-	-	37.582	-

Mode : HE40 SU

Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5190	38	-	40.53	-	-	37.676	-
	5230	46	-	40.56	-	-	37.709	-
UNII3	5755	151	-	40.55	-	-	37.646	-
	5795	159	-	40.35	-	-	37.633	-

Mode : HE80 26T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	19.68	38.45	19.80	18.376	36.669	18.650
UNII3	5775	155	25.49	45.16	25.42	24.410	38.709	25.990

Mode : HE80 52T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	21.24	24.29	21.38	18.400	21.355	18.675
UNII3	5775	155	23.88	33.22	23.96	22.547	27.920	23.434

Mode : HE80 106T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	20.60	26.16	20.48	18.186	19.556	18.137
UNII3	5775	155	32.72	43.88	31.85	27.387	30.150	27.810

Mode : HE80 242T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	46.32	60.89	43.29	38.884	43.203	34.272
UNII3	5775	155	50.45	57.55	50.62	37.444	42.610	35.730

Mode : HE80 484T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	70.56	-	72.05	42.644	-	50.899
UNII3	5775	155	67.74	-	75.55	41.557	-	52.060

Mode : HE80 996T								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	-	82.63	-	-	77.179	-
UNII3	5775	155	-	82.44	-	-	77.111	-

Mode : HE80 SU								
Band	Freq. [MHz]	CH.	26dB Bandwidth [MHz]			99% Occupied Bandwidth [MHz]		
			RU Index : Low	RU Index : Mid	RU Index : High	RU Index : Low	RU Index : Mid	RU Index : High
			ANT.2	ANT.2	ANT.2	ANT.2	ANT.2	ANT.2
UNII1	5210	42	-	82.52	-	-	77.401	-
UNII3	5775	155	-	82.52	-	-	77.230	-

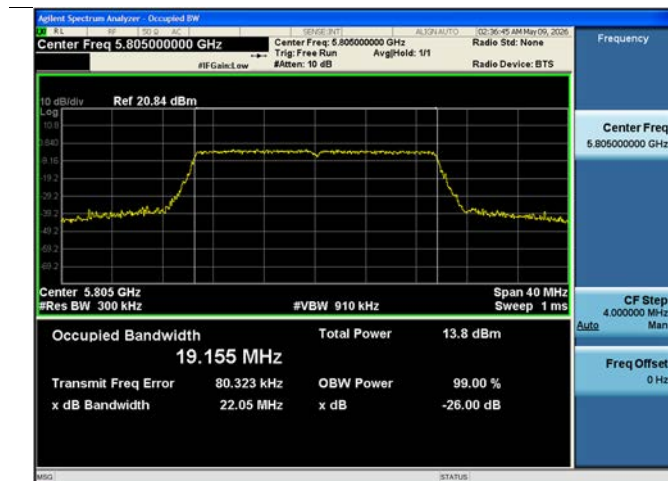
Test Plots(26 dB BANDWIDTH)

Note:

In order to simplify the report, attached plots were only the widest channel per channel bandwidth.

[Ant. 1]

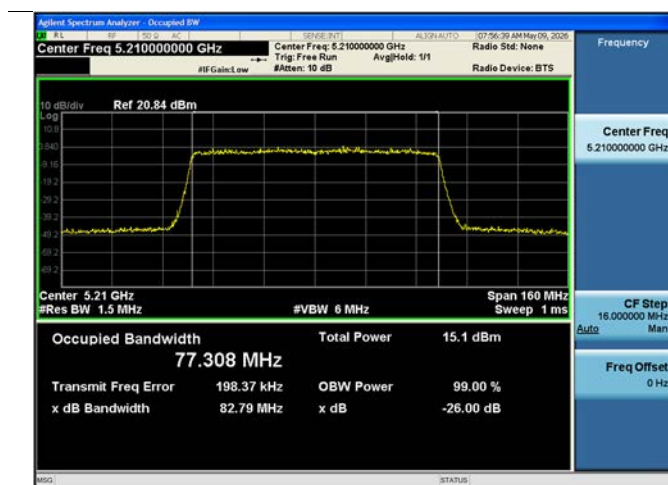
Bandwidth 20M Ch.161 242 Tones RU61



Bandwidth 40M Ch.151 SU

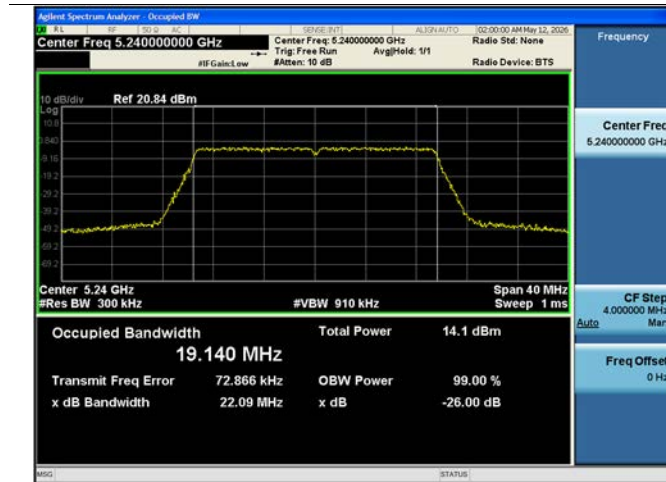


Bandwidth 80M Ch.42 996 Tones RU67



[Ant. 2]

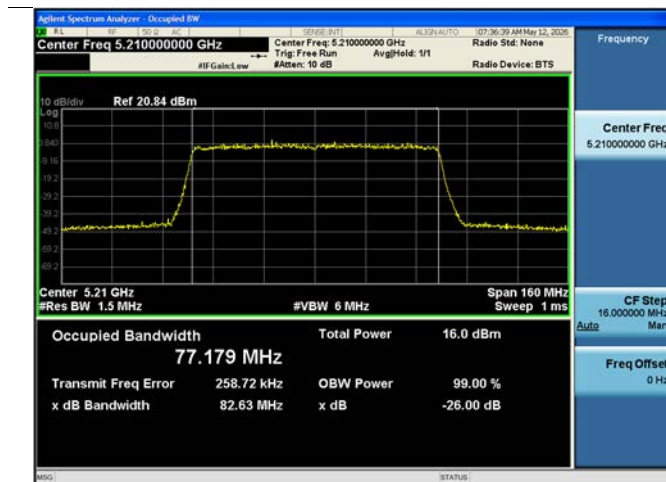
Bandwidth 20M Ch.48 242 Tones RU61



Bandwidth 40M Ch.46 SU



Bandwidth 80M Ch.42 996 Tones RU67



10.3 6 dB BANDWIDTH

[Ant.1]

Mode : HE20							
Band	Tone	Freq. [MHz]	CH.	6dB Bandwidth [MHz]			Limit [MHz]
				RU Index : Low	RU Index : Mid	RU Index : High	
				ANT.1	ANT.1	ANT.1	
UNII3	26T	5745	149	2.095	2.692	2.123	> 0.5
		5785	157	2.127	2.706	2.104	> 0.5
		5805	161	2.071	2.704	2.145	> 0.5
UNII3	52T	5745	149	17.04	15.05	17.08	> 0.5
		5785	157	17.05	15.07	17.07	> 0.5
		5805	161	17.04	15.06	17.08	> 0.5
UNII3	106T	5745	149	17.21	-	17.20	> 0.5
		5785	157	17.19	-	17.15	> 0.5
		5805	161	17.20	-	17.18	> 0.5
UNII3	242T	5745	149	-	19.04	-	> 0.5
		5785	157	-	19.06	-	> 0.5
		5805	161	-	19.00	-	> 0.5
UNII3	SU	5745	149	-	18.96	-	> 0.5
		5785	157	-	18.78	-	> 0.5
		5805	161	-	18.89	-	> 0.5

Mode : HE40							
Band	Tone	Freq. [MHz]	CH.	6dB Bandwidth [MHz]			Limit [MHz]
				RU Index : Low	RU Index : Mid	RU Index : High	
				ANT.1	ANT.1	ANT.1	
UNII3	26T	5755	151	2.027	2.119	2.123	> 0.5
		5795	159	2.080	2.176	2.066	> 0.5
UNII3	52T	5755	151	16.59	14.77	16.58	> 0.5
		5795	159	16.55	12.32	16.58	> 0.5
UNII3	106T	5755	151	16.63	17.36	16.57	> 0.5
		5795	159	16.56	17.36	17.75	> 0.5
UNII3	242T	5755	151	18.76	-	18.59	> 0.5
		5795	159	18.63	-	18.53	> 0.5
UNII3	484T	5755	151	-	37.84	-	> 0.5
		5795	159	-	37.54	-	> 0.5
UNII3	SU	5755	151	-	37.33	-	> 0.5
		5795	159	-	37.12	-	> 0.5

Mode : HE80							
Band	Tone	Freq. [MHz]	CH.	6dB Bandwidth [MHz]			Limit [MHz]
				RU Index : Low	RU Index : Mid	RU Index : High	
				ANT.1	ANT.1	ANT.1	
UNII3	26T	5775	155	2.228	2.803	2.268	> 0.5
UNII3	52T	5775	155	16.63	13.76	14.14	> 0.5
UNII3	106T	5775	155	16.76	16.40	16.67	> 0.5
UNII3	242T	5775	155	18.87	36.38	18.77	> 0.5
UNII3	484T	5775	155	37.57	-	37.43	> 0.5
UNII3	996T	5775	155	-	77.01	-	> 0.5
UNII3	SU	5775	155	-	75.74	-	> 0.5

[Ant.2]

Mode : HE20							
Band	Tone	Freq. [MHz]	CH.	6dB Bandwidth [MHz]			Limit [MHz]
				RU Index : Low	RU Index : Mid	RU Index : High	
				ANT2	ANT2	ANT2	
UNII3	26T	5745	149	2.096	2.683	2.112	> 0.5
		5785	157	2.127	2.706	2.110	> 0.5
		5805	161	2.107	2.715	2.132	> 0.5
UNII3	52T	5745	149	17.07	15.08	17.06	> 0.5
		5785	157	17.08	15.03	17.02	> 0.5
		5805	161	10.77	15.07	17.05	> 0.5
UNII3	106T	5745	149	17.18	-	17.22	> 0.5
		5785	157	17.20	-	17.16	> 0.5
		5805	161	17.19	-	17.16	> 0.5
UNII3	242T	5745	149	-	19.05	-	> 0.5
		5785	157	-	19.03	-	> 0.5
		5805	161	-	19.07	-	> 0.5
UNII3	SU	5745	149	-	18.94	-	> 0.5
		5785	157	-	18.84	-	> 0.5
		5805	161	-	18.73	-	> 0.5

Mode : HE40							
Band	Tone	Freq. [MHz]	CH.	6dB Bandwidth [MHz]			Limit [MHz]
				RU Index : Low	RU Index : Mid	RU Index : High	
				ANT2	ANT2	ANT2	
UNII3	26T	5755	151	2.086	2.098	2.041	> 0.5
		5795	159	2.099	2.195	2.100	> 0.5
UNII3	52T	5755	151	16.48	4.078	16.60	> 0.5
		5795	159	16.57	11.02	16.58	> 0.5
UNII3	106T	5755	151	16.64	17.36	16.60	> 0.5
		5795	159	16.60	17.33	17.26	> 0.5
UNII3	242T	5755	151	18.63	-	18.74	> 0.5
		5795	159	18.63	-	18.56	> 0.5
UNII3	484T	5755	151	-	37.96	-	> 0.5
		5795	159	-	37.86	-	> 0.5
UNII3	SU	5755	151	-	37.31	-	> 0.5
		5795	159	-	36.12	-	> 0.5

Mode : HE80							
Band	Tone	Freq. [MHz]	CH.	6dB Bandwidth [MHz]			Limit [MHz]
				RU Index : Low	RU Index : Mid	RU Index : High	
				ANT2	ANT2	ANT2	
UNII3	26T	5775	155	2.214	2.818	2.195	> 0.5
UNII3	52T	5775	155	16.72	12.43	16.58	> 0.5
UNII3	106T	5775	155	16.72	16.42	17.20	> 0.5
UNII3	242T	5775	155	18.86	36.45	18.85	> 0.5
UNII3	484T	5775	155	37.67	-	37.39	> 0.5
UNII3	996T	5775	155	-	77.29	-	> 0.5
UNII3	SU	5775	155	-	76.06	-	> 0.5

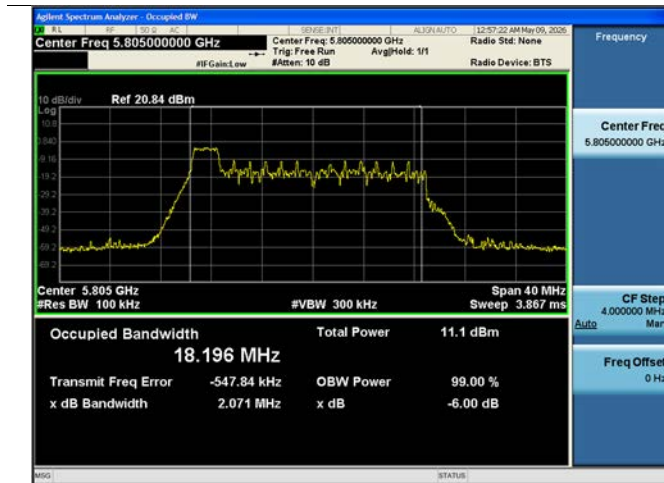
☒ Test Plots(6 dB BANDWIDTH)

Note:

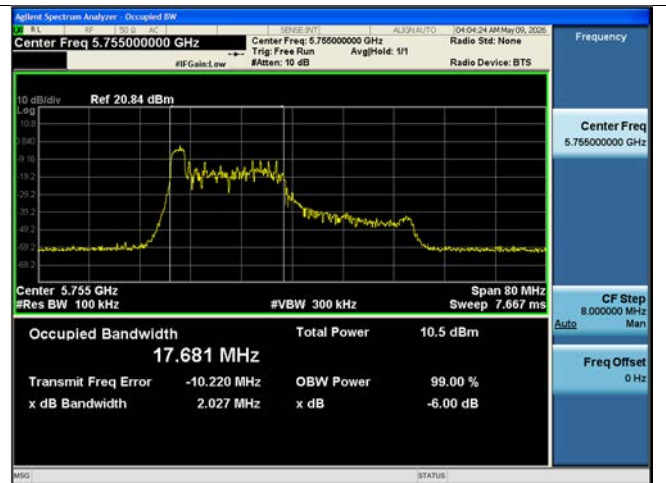
In order to simplify the report, attached plots were only the narrowest channel

[Ant.1]

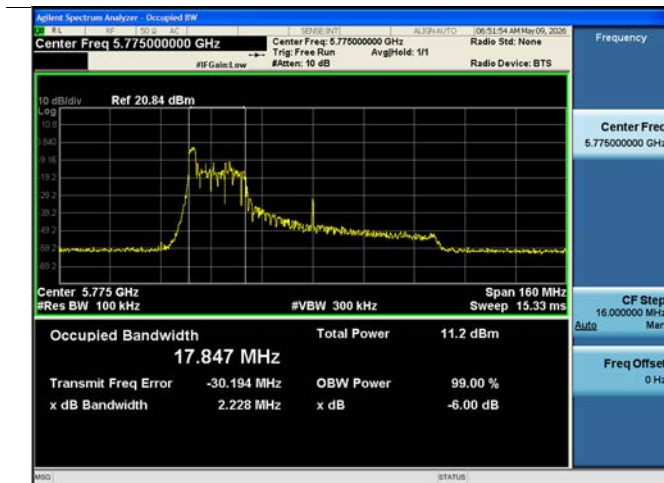
Bandwidth 20M Ch.161 26Tones RU 0



Bandwidth 40M Ch.151 26 Tones RU 0

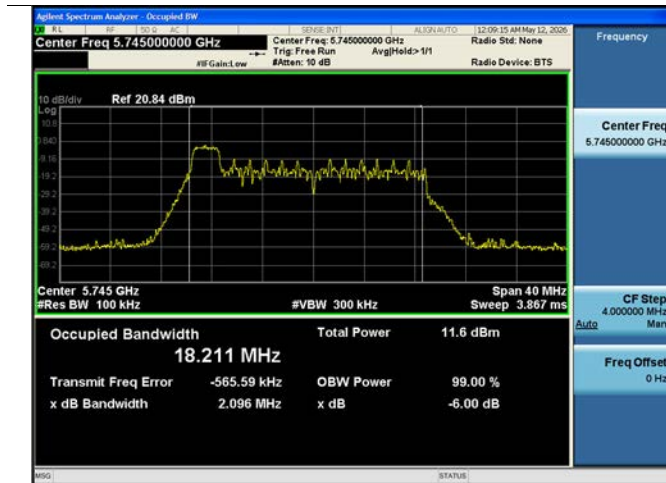


Bandwidth 80M Ch.155 26 Tones RU 0

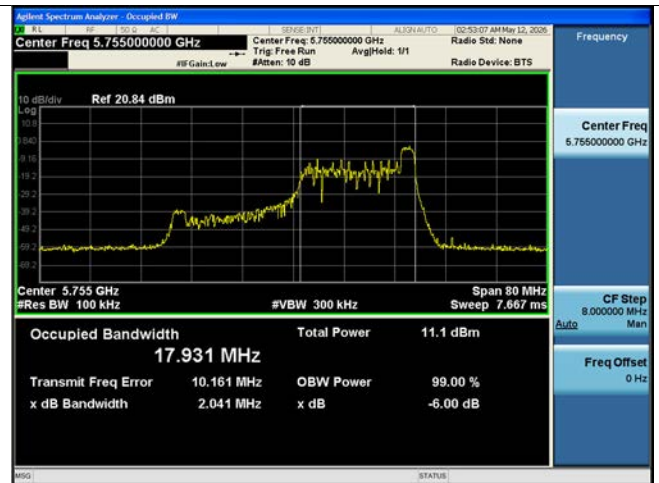


[Ant.2]

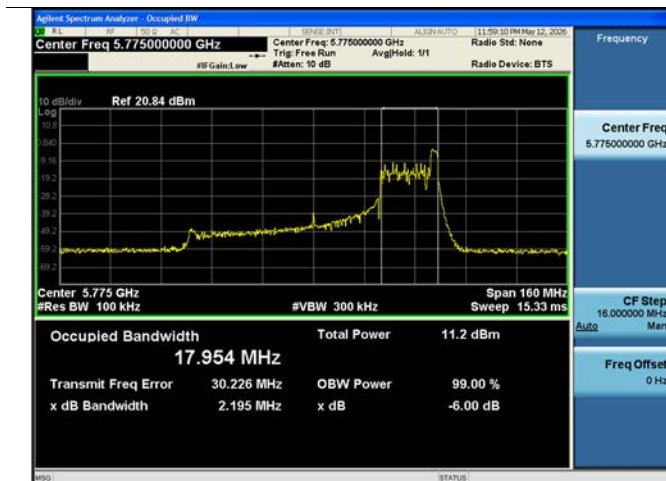
Bandwidth 20M Ch.149 26Tones RU 0



Bandwidth 40M Ch.151 26 Tones RU 17



Bandwidth 80M Ch.155 26 Tones RU 36



10.4 OUTPUT POWER MEASUREMENT

Note:

1. The maximum conducted output power limit is reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. Ant Total Power [dBm] = Measured Power [dBm] + Duty Cycle Factor [dB]
3. MIMO Total Power [dBm] = Ant.1 Total Power [dBm] + Ant.2 Total Power [dBm]
4. Limit
 - UNII 1 : 23.98 dBm
 - UNII 3 : 30 dBm

[MIMO_CDD(Ant.1+ Ant.2)]

Mode : HE20 26T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5180	36	1.73	2.33	5.05	1.98	2.49	5.25	1.66	2.15	4.92	22.31
	5200	40	1.63	2.00	4.82	1.91	2.35	5.14	1.60	2.05	4.84	22.31
	5240	48	1.68	2.39	5.06	2.02	2.63	5.34	1.76	2.53	5.17	22.31
UNII3	5745	149	1.95	2.46	5.22	2.14	2.70	5.43	1.84	2.39	5.13	28.63
	5785	157	1.81	2.38	5.11	2.09	2.64	5.38	1.49	2.46	5.01	28.63
	5805	161	1.73	1.96	4.85	1.94	2.38	5.17	1.36	1.88	4.63	28.63

Mode : HE20 52T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5180	36	1.85	2.49	5.20	1.99	2.52	5.28	1.76	2.42	5.12	22.31
	5200	40	2.36	2.18	5.28	2.55	2.28	5.43	2.23	2.11	5.18	22.31
	5240	48	1.82	2.56	5.22	2.03	2.74	5.41	1.88	2.57	5.25	22.31
UNII3	5745	149	2.03	2.47	5.27	2.17	2.57	5.39	1.97	2.39	5.20	28.63
	5785	157	1.92	2.49	5.23	2.11	2.77	5.47	1.67	2.31	5.02	28.63
	5805	161	1.84	2.23	5.05	1.99	2.40	5.21	1.51	2.03	4.79	28.63

Mode : HE20 106T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5180	36	5.84	6.33	9.10	-	-	-	5.80	6.27	9.05	22.31
	5200	40	5.76	6.02	8.90	-	-	-	5.58	6.07	8.84	22.31
	5240	48	5.79	6.69	9.27	-	-	-	5.84	6.72	9.31	22.31
UNII3	5745	149	5.86	6.36	9.12	-	-	-	5.83	6.39	9.13	28.63
	5785	157	5.78	6.15	8.98	-	-	-	5.61	6.14	8.89	28.63
	5805	161	5.67	5.89	8.79	-	-	-	5.43	5.80	8.63	28.63

Mode : HE20 242T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5180	36	-	-	-	5.97	6.28	9.14	-	-	-	22.31
	5200	40	-	-	-	5.84	6.34	9.11	-	-	-	22.31
	5240	48	-	-	-	5.91	6.23	9.08	-	-	-	22.31
UNII3	5745	149	-	-	-	6.03	6.21	9.13	-	-	-	28.63
	5785	157	-	-	-	6.01	6.30	9.17	-	-	-	28.63
	5805	161	-	-	-	5.85	6.24	9.06	-	-	-	28.63

Mode : HE20 SU												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5180	36	-	-	-	7.56	8.29	10.95	-	-	-	22.31
	5200	40	-	-	-	7.52	8.00	10.77	-	-	-	22.31
	5240	48	-	-	-	7.81	8.38	11.11	-	-	-	22.31
UNII3	5745	149	-	-	-	7.92	8.02	10.98	-	-	-	28.63
	5785	157	-	-	-	7.80	8.12	10.97	-	-	-	28.63
	5805	161	-	-	-	7.67	8.13	10.91	-	-	-	28.63

Mode : HE40 26T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5190	38	1.17	1.44	4.31	1.85	2.54	5.22	1.07	1.33	4.21	22.31
	5230	46	0.51	1.64	4.12	1.86	2.61	5.26	0.97	1.70	4.36	22.31
UNII3	5755	151	1.21	1.91	4.58	2.09	2.93	5.54	0.96	1.85	4.44	28.63
	5795	159	0.90	1.33	4.13	2.09	2.50	5.31	0.84	1.35	4.11	28.63

Mode : HE40 52T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5190	38	1.43	1.77	4.62	2.19	2.66	5.45	1.33	1.88	4.63	22.31
	5230	46	0.62	1.32	4.00	1.79	2.51	5.18	1.00	1.76	4.41	22.31
UNII3	5755	151	1.43	1.82	4.64	2.19	2.78	5.51	1.25	1.88	4.59	28.63
	5795	159	1.18	1.20	4.20	2.19	2.45	5.34	0.82	1.09	3.97	28.63

Mode : HE40 106T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5190	38	5.56	6.03	8.81	6.06	6.62	9.36	5.45	6.04	8.77	22.31
	5230	46	5.31	5.72	8.53	5.65	6.34	9.02	5.24	5.91	8.60	22.31
UNII3	5755	151	5.35	5.96	8.68	5.85	6.34	9.11	5.26	5.84	8.57	28.63
	5795	159	5.17	5.80	8.51	5.87	6.49	9.20	5.21	5.34	8.29	28.63

Mode : HE40 242T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5190	38	5.70	6.41	9.08	-	-	-	6.77	6.22	9.51	22.31
	5230	46	5.34	6.13	8.76	-	-	-	5.53	6.32	8.95	22.31
UNII3	5755	151	5.88	6.58	9.25	-	-	-	5.80	6.52	9.18	28.63
	5795	159	5.82	6.07	8.95	-	-	-	5.40	6.29	8.88	28.63

Mode : HE40 484T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5190	38	-	-	-	5.49	6.29	8.92	-	-	-	22.31
	5230	46	-	-	-	5.51	6.13	8.85	-	-	-	22.31
UNII3	5755	151	-	-	-	5.89	6.11	9.02	-	-	-	28.63
	5795	159	-	-	-	5.48	6.02	8.77	-	-	-	28.63

Mode : HE40 SU												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5190	38	-	-	-	7.30	7.98	10.67	-	-	-	22.31
	5230	46	-	-	-	7.35	7.82	10.61	-	-	-	22.31
UNII3	5755	151	-	-	-	7.66	7.90	10.80	-	-	-	28.63
	5795	159	-	-	-	7.48	8.00	10.76	-	-	-	28.63

Mode : HE80 26T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	1.54	1.48	4.52	1.95	2.75	5.38	1.61	1.60	4.62	22.31
UNII3	5775	155	1.11	1.52	4.33	3.12	3.09	6.12	1.08	1.40	4.25	28.63

Mode : HE80 52T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	1.44	0.85	4.17	1.49	2.10	4.82	1.19	0.98	4.10	22.31
UNII3	5775	155	1.73	1.58	4.67	2.75	2.70	5.74	0.87	1.23	4.07	28.63

Mode : HE80 106T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	5.68	4.91	8.32	5.57	6.17	8.89	5.79	5.02	8.43	22.31
UNII3	5775	155	5.79	5.18	8.51	6.59	6.82	9.72	4.96	5.27	8.13	28.63

Mode : HE80 242T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	4.96	5.57	8.29	5.73	6.28	9.02	5.10	5.67	8.40	22.31
UNII3	5775	155	5.25	5.60	8.44	5.94	6.33	9.15	4.56	5.71	8.18	28.63

Mode : HE80 484T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	5.52	6.31	8.94	-	-	-	5.56	6.39	9.01	22.31
UNII3	5775	155	5.86	6.14	9.01	-	-	-	5.37	6.09	8.76	28.63
Mode : HE80 996T												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	-	-	-	5.78	6.48	9.15	-	-	-	22.31
UNII3	5775	155	-	-	-	5.97	6.19	9.09	-	-	-	28.63
Mode : HE80 SU												
Band	Freq. [MHz]	CH.	Total Average Power [dBm]									Limit [dBm]
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	
UNII1	5210	42	-	-	-	7.75	8.24	11.02	-	-	-	22.31
UNII3	5775	155	-	-	-	7.47	7.57	10.53	-	-	-	28.63

10.5 POWER SPECTRAL DENSITY

Note :

1. U-NII 3 Measured PSD, Total PSD Unit : [dBm/500kHz]
2. The maximum power spectral density limit is reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. Ant Total PSD [dBm] = Measured PSD [dBm/MHz] + Duty Cycle Factor [dB]
4. MIMO Total PSD [dBm/MHz] = Ant.1 Total PSD [dBm/MHz] + Ant.2 Total PSD [dBm/MHz]
5. Limit
 - UNII 1 : 11.0 dBm/MHz
 - UNII 3 : 30.0 dBm/500 kHz

[MIMO_CDD(Ant.1+ Ant.2)]

Mode : HE20 26T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5180	36	-1.300	-0.902	1.914	-2.213	-1.694	1.064	-1.409	-0.862	1.883	9.33
	5200	40	-1.534	-1.096	1.700	-2.174	-1.873	0.989	-1.490	-1.134	1.702	9.33
	5240	48	-1.146	-1.004	1.936	-1.809	-1.856	1.178	-1.056	-0.985	1.990	9.33
UNII3	5745	149	-3.998	-3.469	-0.715	-4.029	-3.484	-0.738	-4.092	-3.624	-0.842	28.63dBm/500kHz
	5785	157	-4.262	-3.651	-0.936	-4.084	-3.538	-0.792	-4.547	-3.869	-1.185	28.63dBm/500kHz
	5805	161	-4.086	-3.749	-0.904	-4.026	-3.717	-0.859	-4.420	-4.007	-1.199	28.63dBm/500kHz

Mode : HE20 52T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5180	36	-4.143	-3.410	-0.751	-4.080	-3.307	-0.666	-4.275	-3.451	-0.833	9.33
	5200	40	-4.247	-3.777	-0.995	-4.087	-3.624	-0.839	-4.279	-3.810	-1.028	9.33
	5240	48	-3.998	-3.245	-0.595	-3.823	-3.268	-0.526	-3.826	-3.348	-0.570	9.33
UNII3	5745	149	-7.030	-6.417	-3.702	-6.980	-6.328	-3.631	-7.109	-6.548	-3.809	28.63dBm/500kHz
	5785	157	-6.891	-6.640	-3.753	-6.689	-6.415	-3.539	-7.064	-6.790	-3.914	28.63dBm/500kHz
	5805	161	-6.909	-6.710	-3.798	-6.802	-6.555	-3.666	-7.290	-6.912	-4.086	28.63dBm/500kHz

Mode : HE20 106T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5180	36	-3.046	-2.642	0.171	-	-	-	-3.176	-2.687	0.086	9.33
	5200	40	-3.313	-3.080	-0.184	-	-	-	-3.406	-3.037	-0.207	9.33
	5240	48	-3.497	-2.814	-0.131	-	-	-	-3.318	-2.857	-0.071	9.33
UNII3	5745	149	-6.047	-5.963	-2.994	-	-	-	-5.987	-6.078	-3.021	28.63dBm/500kHz
	5785	157	-6.069	-5.823	-2.933	-	-	-	-6.212	-5.936	-3.061	28.63dBm/500kHz
	5805	161	-6.009	-5.850	-2.918	-	-	-	-6.172	-6.063	-3.106	28.63dBm/500kHz

Mode : HE20 242T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5180	36	-	-	-	-6.434	-6.098	-3.253	-	-	-	9.33
	5200	40	-	-	-	-6.611	-6.440	-3.515	-	-	-	9.33
	5240	48	-	-	-	-6.673	-6.365	-3.506	-	-	-	9.33
UNII3	5745	149	-	-	-	-9.311	-9.125	-6.207	-	-	-	28.63dBm/500kHz
	5785	157	-	-	-	-9.031	-8.891	-5.950	-	-	-	28.63dBm/500kHz
	5805	161	-	-	-	-9.382	-9.051	-6.203	-	-	-	28.63dBm/500kHz

Mode : HE20 SU

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5180	36	-	-	-	-3.888	-3.266	-0.556	-	-	-	9.33
	5200	40	-	-	-	-3.825	-3.477	-0.638	-	-	-	9.33
	5240	48	-	-	-	-3.929	-3.255	-0.569	-	-	-	9.33
UNII3	5745	149	-	-	-	-6.123	-5.751	-2.923	-	-	-	28.63dBm/500kHz
	5785	157	-	-	-	-5.919	-5.813	-2.856	-	-	-	28.63dBm/500kHz
	5805	161	-	-	-	-6.357	-5.968	-3.148	-	-	-	28.63dBm/500kHz

Mode : HE40 26T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5190	38	-1.782	-1.085	1.591	-1.037	-0.363	2.323	-1.931	-1.184	1.469	9.33
	5230	46	-2.116	-1.631	1.144	-0.998	-0.673	2.178	-1.696	-1.204	1.567	9.33
UNII3	5755	151	-4.571	-3.782	-1.148	-3.948	-3.253	-0.576	-4.796	-3.761	-1.237	28.63dBm/500kHz
	5795	159	-4.858	-4.390	-1.607	-4.100	-3.853	-0.964	-5.473	-5.223	-2.336	28.63dBm/500kHz

Mode : HE40 52T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5190	38	-4.853	-4.102	-1.451	-4.390	-3.389	-0.850	-5.020	-4.217	-1.589	9.33
	5230	46	-4.976	-4.568	-1.757	-4.096	-3.665	-0.864	-4.634	-4.245	-1.424	9.33
UNII3	5755	151	-7.459	-7.194	-4.314	-6.851	-6.718	-3.773	-7.474	-7.366	-4.409	28.63dBm/500kHz
	5795	159	-7.442	-7.530	-4.475	-6.808	-6.763	-3.775	-8.234	-8.032	-5.121	28.63dBm/500kHz

Mode : HE40 106T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5190	38	-3.596	-2.903	-0.225	-3.301	-2.549	0.102	-3.705	-2.978	-0.316	9.33
	5230	46	-3.740	-3.223	-0.463	-3.071	-2.870	0.041	-3.393	-3.211	-0.290	9.33
UNII3	5755	151	-6.492	-6.394	-3.432	-6.081	-6.040	-3.050	-6.547	-6.277	-3.399	28.63dBm/500kHz
	5795	159	-6.549	-6.217	-3.369	-5.950	-5.889	-2.909	-6.878	-6.588	-3.720	28.63dBm/500kHz

Mode : HE40 242T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5190	38	-6.784	-5.797	-3.253	-	-	-	-6.722	-5.947	-3.307	9.33
	5230	46	-6.379	-6.157	-3.257	-	-	-	-6.374	-6.097	-3.223	9.33
UNII3	5755	151	-9.264	-9.303	-6.274	-	-	-	-9.323	-9.391	-6.347	28.63dBm/500kHz
	5795	159	-9.323	-9.172	-6.237	-	-	-	-9.485	-9.188	-6.324	28.63dBm/500kHz

Mode : HE40 484T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5190	38	-	-	-	-9.782	-8.743	-6.222	-	-	-	9.33
	5230	46	-	-	-	-9.678	-9.228	-6.437	-	-	-	9.33
UNII3	5755	151	-	-	-	-12.396	-12.153	-9.263	-	-	-	28.63dBm/500kHz
	5795	159	-	-	-	-12.489	-11.970	-9.212	-	-	-	28.63dBm/500kHz

Mode : HE40 SU

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5190	38	-	-	-	-6.538	-5.849	-3.169	-	-	-	9.33
	5230	46	-	-	-	-6.403	-5.501	-2.918	-	-	-	9.33
UNII3	5755	151	-	-	-	-8.958	-8.754	-5.844	-	-	-	28.63dBm/500kHz
	5795	159	-	-	-	-9.206	-8.943	-6.062	-	-	-	28.63dBm/500kHz

Mode : HE80 26T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-1.446	-0.800	1.899	-2.195	-1.100	1.397	-2.085	-0.821	1.603	9.33
UNII3	5775	155	-4.355	-4.556	-1.444	-4.306	-4.114	-1.199	-4.624	-4.466	-1.534	28.63dBm/500kHz

Mode : HE80 52T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-3.778	-3.270	-0.506	-4.332	-3.761	-1.026	-4.146	-3.422	-0.758	9.33
UNII3	5775	155	-7.154	-7.215	-4.174	-6.784	-6.714	-3.738	-7.443	-7.215	-4.317	28.63dBm/500kHz

Mode : HE80 106T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-3.340	-2.276	0.234	-3.231	-2.614	0.098	-3.566	-2.812	-0.163	9.33
UNII3	5775	155	-6.193	-6.184	-3.179	-6.024	-5.837	-2.920	-6.592	-6.265	-3.416	28.63dBm/500kHz

Mode : HE80 242T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-6.812	-6.255	-3.515	-6.613	-5.756	-3.153	-7.092	-6.544	-3.799	9.33
UNII3	5775	155	-9.793	-9.770	-6.771	-9.530	-9.140	-6.321	-10.015	-9.676	-6.832	28.63dBm/500kHz

Mode : HE80 484T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-9.379	-8.618	-5.971	-	-	-	-9.496	-8.800	-6.124	9.33
UNII3	5775	155	-12.234	-11.901	-9.054	-	-	-	-12.321	-12.173	-9.236	28.63dBm/500kHz

Mode : HE80 996T

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-	-	-	-11.982	-11.361	-8.650	-	-	-	9.33
UNII3	5775	155	-	-	-	-14.964	-14.590	-11.762	-	-	-	28.63dBm/500kHz

Mode : HE80 SU

Band	Freq. [MHz]	CH.	Total Power Spectral Density [dBm/MHz] Note.1									Limit
			RU Index : Low			RU Index : Mid			RU Index : High			
			ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	ANT.1	ANT.2	MIMO	[dBm/MHz]
UNII1	5210	42	-	-	-	-9.156	-8.176	-5.628	-	-	-	9.33
UNII3	5775	155	-	-	-	-12.567	-12.164	-9.350	-	-	-	28.63dBm/500kHz

Test Plots(POWER SPECTRAL DENSITY)

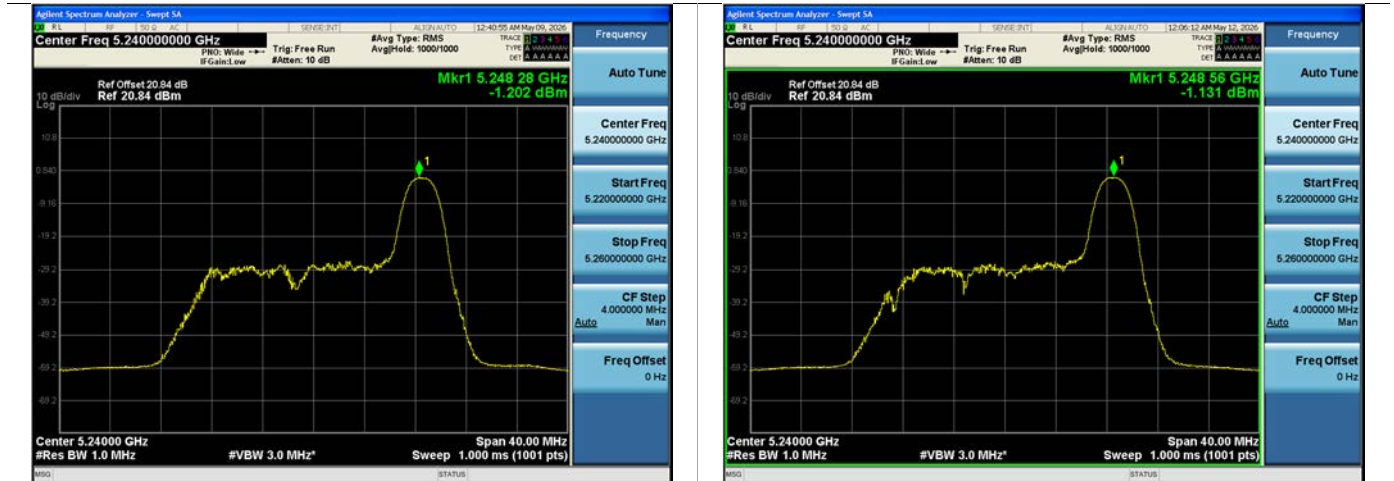
Note: In order to simplify the report, attached plots were only channel of the highest PSD.

[MIMO_CDD(Ant.1+ Ant.2)]

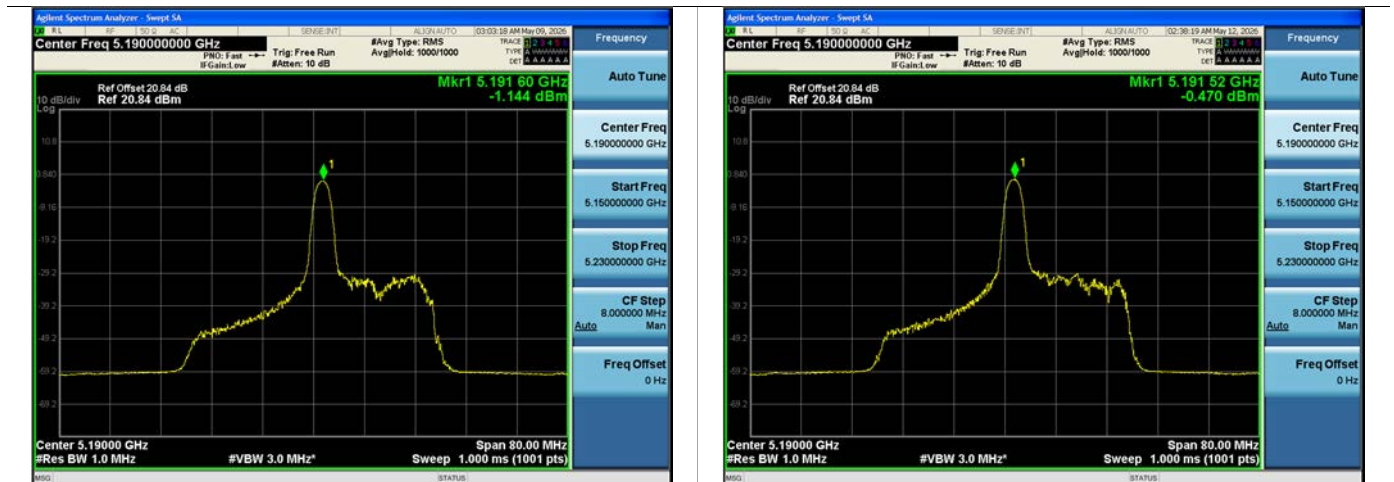
Ant.1

Ant.2

Bandwidth 20M Ch.48 26 Tone RU 8



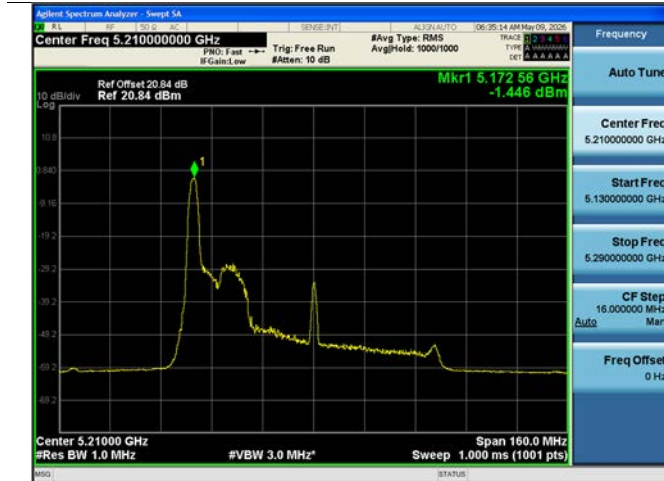
Bandwidth 40M Ch.38 26 Tone RU 9



Ant.1

Ant.2

Bandwidth 80M Ch.42 26 Tone RU 0



10.6 RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz)

Frequency Range : 9 kHz – 30 MHz

Frequency	Measured Value	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]

No Critical peaks found

Note:

1. The Measured Value of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBμV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Value	A.F+C.L	ANT. POL	Total	Limit	Margin
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]

No Critical peaks found

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

10.7 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

[MIMO_CDD(Ant.1+ Ant.2)]

[802.11ax(HE20), 26 Tone]

Band : UNII 1			Operation Mode : 802.11ax_HE20 MCS0 26T RU4				
CH.36 5180 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	48.99	6.43	V	55.42	68.20	12.78	PK
15540	47.83	7.10	V	54.93	73.98	19.05	PK
15540	35.61	7.10	V	42.71	53.98	11.27	AV
10360	49.04	6.43	H	55.47	68.20	12.73	PK
15540	47.86	7.10	H	54.96	73.98	19.02	PK
15540	35.63	7.10	H	42.73	53.98	11.25	AV

Band : UNII 1			Operation Mode : 802.11ax_HE20 MCS0 26T RU4				
CH.40 5200 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	48.22	6.32	V	54.54	68.20	13.66	PK
15600	48.22	6.64	V	54.86	73.98	19.12	PK
15600	35.40	6.64	V	42.04	53.98	11.94	AV
10400	48.37	6.32	H	54.69	68.20	13.51	PK
15600	48.35	6.64	H	54.99	73.98	18.99	PK
15600	35.51	6.64	H	42.15	53.98	11.83	AV

Band : UNII 1			Operation Mode : 802.11ax_HE20 MCS0 26T RU4				
CH.48 5240 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	48.55	6.93	V	55.48	68.20	12.72	PK
15720	47.96	6.26	V	54.22	73.98	19.76	PK
15720	35.59	6.26	V	41.85	53.98	12.13	AV
10480	48.67	6.93	H	55.60	68.20	12.60	PK
15720	48.10	6.26	H	54.36	73.98	19.62	PK
15720	35.65	6.26	H	41.91	53.98	12.07	AV

Band : UNII 3			Operation Mode : 802.11ax_HE20 MCS0 26T RU4				
CH.149 5745 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11490	48.48	6.47	V	54.95	73.98	19.03	PK
11490	36.08	6.47	V	42.55	53.98	11.43	AV
17235	47.09	11.48	V	58.57	68.20	9.63	PK
11490	48.60	6.47	H	55.07	73.98	18.91	PK
11490	36.19	6.47	H	42.66	53.98	11.32	AV
17235	47.17	11.48	H	58.65	68.20	9.55	PK

Band : UNII 3			Operation Mode : 802.11ax_HE20 MCS0 26T RU4				
CH.157 5785 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	48.89	6.94	V	55.83	73.98	18.15	PK
11570	36.71	6.94	V	43.65	53.98	10.33	AV
17355	47.96	12.71	V	60.67	68.20	7.53	PK
11570	48.94	6.94	H	55.88	73.98	18.10	PK
11570	36.80	6.94	H	43.74	53.98	10.24	AV
17355	48.01	12.71	H	60.72	68.20	7.48	PK

Band : UNII 3			Operation Mode : 802.11ax_HE20 MCS0 26T RU4				
CH.161 5805 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11610	48.46	6.54	V	55.00	73.98	18.98	PK
11610	36.23	6.54	V	42.77	53.98	11.21	AV
17415	47.34	13.30	V	60.64	68.20	7.56	PK
11610	48.48	6.54	H	55.02	73.98	18.96	PK
11610	36.33	6.54	H	42.87	53.98	11.11	AV
17415	47.40	13.30	H	60.70	68.20	7.50	PK

[802.11ax20(HE20), SU]

Band : UNII 1			Operation Mode : 802.11ax_HE20 SU				
CH.36 5180 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	48.91	6.43	V	55.34	68.20	12.86	PK
15540	48.25	7.10	V	55.35	73.98	18.63	PK
15540	35.64	7.10	V	42.74	53.98	11.24	AV
10360	48.92	6.43	H	55.35	68.20	12.85	PK
15540	48.34	7.10	H	55.44	73.98	18.54	PK
15540	35.77	7.10	H	42.87	53.98	11.11	AV

Band : UNII 1			Operation Mode : 802.11ax_HE20 SU				
CH.40 5200 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	48.78	6.32	V	55.10	68.20	13.10	PK
15600	48.78	6.64	V	55.42	73.98	18.56	PK
15600	35.94	6.64	V	42.58	53.98	11.40	AV
10400	48.84	6.32	H	55.16	68.20	13.04	PK
15600	48.80	6.64	H	55.44	73.98	18.54	PK
15600	36.06	6.64	H	42.70	53.98	11.28	AV

Band : UNII 1			Operation Mode : 802.11ax_HE20 SU				
CH.48 5240 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10480	49.07	6.93	V	56.00	68.20	12.20	PK
15720	48.32	6.26	V	54.58	73.98	19.40	PK
15720	35.86	6.26	V	42.12	53.98	11.86	AV
10480	49.12	6.93	H	56.05	68.20	12.15	PK
15720	48.35	6.26	H	54.61	73.98	19.37	PK
15720	35.96	6.26	H	42.22	53.98	11.76	AV

Band : UNII 3			Operation Mode : 802.11ax_HE20 SU				
CH.149 5745 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11490	48.59	6.47	V	55.06	73.98	18.92	PK
11490	36.24	6.47	V	42.71	53.98	11.27	AV
17235	46.88	11.48	V	58.36	68.20	9.84	PK
11490	48.68	6.47	H	55.15	73.98	18.83	PK
11490	36.27	6.47	H	42.74	53.98	11.24	AV
17235	46.93	11.48	H	58.41	68.20	9.79	PK

Band : UNII 3			Operation Mode : 802.11ax_HE20 SU				
CH.157 5785 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11570	49.26	6.94	V	56.20	73.98	17.78	PK
11570	36.67	6.94	V	43.61	53.98	10.37	AV
17355	47.31	12.71	V	60.02	68.20	8.18	PK
11570	49.32	6.94	H	56.26	73.98	17.72	PK
11570	36.78	6.94	H	43.72	53.98	10.26	AV
17355	47.39	12.71	H	60.10	68.20	8.10	PK

Band : UNII 3			Operation Mode : 802.11ax_HE20 SU				
CH.161 5805 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11610	47.87	6.54	V	54.41	73.98	19.57	PK
11610	36.14	6.54	V	42.68	53.98	11.30	AV
17415	48.65	13.30	V	61.95	68.20	6.25	PK
11610	47.89	6.54	H	54.43	73.98	19.55	PK
11610	36.19	6.54	H	42.73	53.98	11.25	AV
17415	48.67	13.30	H	61.97	68.20	6.23	PK

[802.11ax40(HE40), 26 Tone]

Band : UNII 1			Operation Mode : 802.11ax_HE40 MCS0 26T RU9				
CH.38 5190 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10380	48.56	6.60	V	55.16	68.20	13.04	PK
15570	47.49	7.12	V	54.61	73.98	19.37	PK
15570	35.67	7.12	V	42.79	53.98	11.19	AV
10380	48.63	6.60	H	55.23	68.20	12.97	PK
15570	47.61	7.12	H	54.73	73.98	19.25	PK
15570	35.69	7.12	H	42.81	53.98	11.17	AV

Band : UNII 1			Operation Mode : 802.11ax_HE40 MCS0 26T RU9				
CH.46 5230 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10460	48.17	7.20	V	55.37	68.20	12.83	PK
15690	47.26	6.35	V	53.61	73.98	20.37	PK
15690	35.12	6.35	V	41.47	53.98	12.51	AV
10460	48.29	7.20	H	55.49	68.20	12.71	PK
15690	47.32	6.35	H	53.67	73.98	20.31	PK
15690	35.19	6.35	H	41.54	53.98	12.44	AV

Band : UNII 3			Operation Mode : 802.11ax_HE40 MCS0 26T RU9				
CH.151 5755 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11510	48.96	6.45	V	55.41	73.98	18.57	PK
11510	36.92	6.45	V	43.37	53.98	10.61	AV
17265	46.79	11.87	V	58.66	68.20	9.54	PK
11510	49.04	6.45	H	55.49	73.98	18.49	PK
11510	37.07	6.45	H	43.52	53.98	10.46	AV
17265	46.94	11.87	H	58.81	68.20	9.39	PK

Band : UNII 3			Operation Mode : 802.11ax_HE40 MCS0 26T RU9				
CH.159 5795 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11590	48.67	6.60	V	55.27	73.98	18.71	PK
11590	36.40	6.60	V	43.00	53.98	10.98	AV
17385	46.99	12.76	V	59.75	68.20	8.45	PK
11590	48.75	6.60	H	55.35	73.98	18.63	PK
11590	36.46	6.60	H	43.06	53.98	10.92	AV
17385	47.03	12.76	H	59.79	68.20	8.41	PK

[802.11ax40(HE40), SU]

Band : UNII 1			Operation Mode : 802.11ax_HE40 SU				
CH.38 5190 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10380	48.97	6.60	V	55.57	68.20	12.63	PK
15570	48.43	7.12	V	55.55	73.98	18.43	PK
15570	35.76	7.12	V	42.88	53.98	11.10	AV
10380	49.11	6.60	H	55.71	68.20	12.49	PK
15570	48.44	7.12	H	55.56	73.98	18.42	PK
15570	35.88	7.12	H	43.00	53.98	10.98	AV

Band : UNII 1			Operation Mode : 802.11ax_HE40 SU				
CH.46 5230 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10460	48.60	7.20	V	55.80	68.20	12.40	PK
15690	47.64	6.35	V	53.99	73.98	19.99	PK
15690	35.44	6.35	V	41.79	53.98	12.19	AV
10460	48.62	7.20	H	55.82	68.20	12.38	PK
15690	47.65	6.35	H	54.00	73.98	19.98	PK
15690	35.52	6.35	H	41.87	53.98	12.11	AV

Band : UNII 3			Operation Mode : 802.11ax_HE40 SU				
CH.151 5755 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11510	49.16	6.45	V	55.61	73.98	18.37	PK
11510	37.34	6.45	V	43.79	53.98	10.19	AV
17265	47.39	11.87	V	59.26	68.20	8.94	PK
11510	49.19	6.45	H	55.64	73.98	18.34	PK
11510	37.40	6.45	H	43.85	53.98	10.13	AV
17265	47.41	11.87	H	59.28	68.20	8.92	PK

Band : UNII 3			Operation Mode : 802.11ax_HE40 SU				
CH.159 5795 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11590	48.96	6.60	V	55.56	73.98	18.42	PK
11590	36.65	6.60	V	43.25	53.98	10.73	AV
17385	47.52	12.76	V	60.28	68.20	7.92	PK
11590	48.98	6.60	H	55.58	73.98	18.40	PK
11590	36.76	6.60	H	43.36	53.98	10.62	AV
17385	47.54	12.76	H	60.30	68.20	7.90	PK

[802.11ax(HE80), 26 Tone]

Band : UNII 1			Operation Mode : 802.11ax_HE80 MCS0 26T RU18				
CH.42 5210 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10420	48.87	6.33	V	55.20	68.20	13.00	PK
15630	48.02	6.66	V	54.68	73.98	19.30	PK
15630	36.22	6.66	V	42.88	53.98	11.10	AV
10420	48.91	6.33	H	55.24	68.20	12.96	PK
15630	48.09	6.66	H	54.75	73.98	19.23	PK
15630	36.36	6.66	H	43.02	53.98	10.96	AV

Band : UNII 3			Operation Mode : 802.11ax_HE80 MCS0 26T RU18				
CH.155 5775 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11550	48.52	6.80	V	55.32	73.98	18.66	PK
11550	37.03	6.80	V	43.83	53.98	10.15	AV
17325	46.50	12.25	V	58.75	68.20	9.45	PK
11550	48.54	6.80	H	55.34	73.98	18.64	PK
11550	37.16	6.80	H	43.96	53.98	10.02	AV
17325	46.58	12.25	H	58.83	68.20	9.37	PK

[802.11ax(HE80), SU]

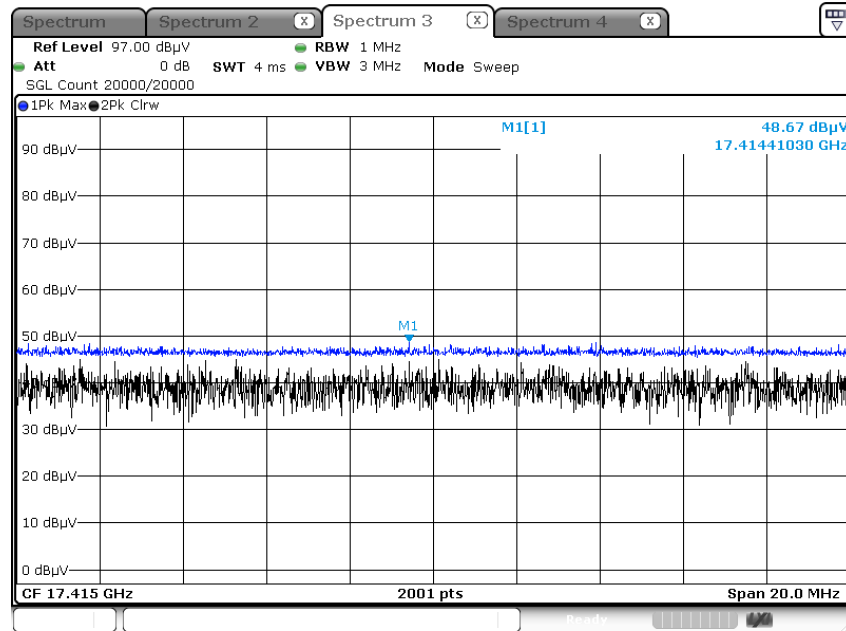
Band : UNII 1			Operation Mode : 802.11ax_HE80 SU				
CH.42 5210 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10420	48.99	6.33	V	55.32	68.20	12.88	PK
15630	48.14	6.66	V	54.80	73.98	19.18	PK
15630	36.27	6.66	V	42.93	53.98	11.05	AV
10420	49.04	6.33	H	55.37	68.20	12.83	PK
15630	48.21	6.66	H	54.87	73.98	19.11	PK
15630	36.32	6.66	H	42.98	53.98	11.00	AV

Band : UNII 3			Operation Mode : 802.11ax_HE80 SU				
CH.155 5775 MHz			Transfer Rate : MCS0				
Frequency [MHz]	Measured value [dBμV]	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11550	49.14	6.80	V	55.94	73.98	18.04	PK
11550	37.10	6.80	V	43.90	53.98	10.08	AV
17325	47.68	12.25	V	59.93	68.20	8.27	PK
11550	49.24	6.80	H	56.04	73.98	17.94	PK
11550	37.22	6.80	H	44.02	53.98	9.96	AV
17325	47.70	12.25	H	59.95	68.20	8.25	PK

Test Plots(RADIATED SPURIOUS EMISSIONS (Above 1 GHz))

[MIMO_CDD(Ant.1+ Ant.2)]

Radiated Spurious Emissions plot – Peak result(802.11ax(HE20)_SU, Ch.161 3rd Spurious Emission, X-H)



Date: 15.MAY.2026 15:13:52

Note: Only the worst case plots for Radiated Spurious Emissions.

10.8 RADIATED RESTRICTED BAND EDGE

[MIMO(Ant.1+ Ant.2)]

802.11ax[HE20], 26 Tone

Operation Mode :		802.11ax_20	Tone & RU Index :		26T & 0	MCS index :		MCS0
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.82	H	57.82	73.98	16.16	PK		
4500 - 5150	46.52	H	46.52	53.98	7.46	AV		
Operation Mode :		802.11ax_20	Tone & RU Index :		26T & 8	MCS index :		MCS0
Channel No. :		48	Frequency :		5240 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	58.55	H	58.55	73.98	15.43	PK		
5350 - 5460	46.22	H	46.22	53.98	7.76	AV		

802.11ax[HE20], 52 Tone

Operation Mode :		802.11ax_20	Tone & RU Index :		52T & 37	MCS index :		MCS0
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.27	H	57.27	73.98	16.71	PK		
4500 - 5150	46.56	H	46.56	53.98	7.42	AV		

Operation Mode :		802.11ax_20	Tone & RU Index :		52T & 40	MCS index :		MCS0
Channel No. :		48	Frequency :		5240 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.59	H	57.59	73.98	16.39	PK		
5350 - 5460	46.29	H	46.29	53.98	7.69	AV		

802.11ax[HE20], 106 Tone

Operation Mode :		802.11ax_20	Tone & RU Index :		106T & 53	MCS index :		MCS0
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.93	H	57.93	73.98	16.05	PK		
4500 - 5150	46.73	H	46.73	53.98	7.25	AV		
Operation Mode :		802.11ax_20	Tone & RU Index :		106T & 54	MCS index :		MCS0
Channel No. :		48	Frequency :		5240 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.77	H	57.77	73.98	16.21	PK		
5350 - 5460	46.24	H	46.24	53.98	7.74	AV		

802.11ax[HE20], 242 Tone

Operation Mode :		802.11ax_20	Tone & RU Index :		242T & 61	MCS index :		MCS0
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.35	H	57.35	73.98	16.63	PK		
4500 - 5150	46.68	H	46.68	53.98	7.30	AV		
Operation Mode :		802.11ax_20	Tone & RU Index :		242T & 61	MCS index :		MCS0
Channel No. :		48	Frequency :		5240 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.85	H	57.85	73.98	16.13	PK		
5350 - 5460	46.39	H	46.39	53.98	7.59	AV		

802.11ax[HE20], SU

Operation Mode :		802.11ax_20	Tone & RU Index :		SU	MCS index :		MCS0
Channel No. :		36	Frequency :		5180 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	58.16	H	58.16	73.98	15.82	PK		
4500 - 5150	46.98	H	46.98	53.98	7.00	AV		

Operation Mode :		802.11ax_20	Tone & RU Index :		SU	MCS index :		MCS0
Channel No. :		48	Frequency :		5240 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	58.35	H	58.35	73.98	15.63	PK		
5350 - 5460	46.61	H	46.61	53.98	7.37	AV		

802.11ax[HE40], 26 Tone

Operation Mode :		802.11ax_40	Tone & RU Index :		26T & 0	MCS index :		MCS0
Channel No. :		38	Frequency :		5190 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.55	H	57.55	73.98	16.43	PK		
4500 - 5150	46.55	H	46.55	53.98	7.43	AV		

Operation Mode :		802.11ax_40	Tone & RU Index :		26T & 17	MCS index :		MCS0
Channel No. :		46	Frequency :		5230 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	58.50	H	58.50	73.98	15.48	PK		
5350 - 5460	46.29	H	46.29	53.98	7.69	AV		

802.11ax[HE40], 52 Tone

Operation Mode :		802.11ax_40	Tone & RU Index :		52T & 37	MCS index :		MCS0
Channel No. :		38	Frequency :		5190 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.54	H	57.54	73.98	16.44	PK		
4500 - 5150	46.36	H	46.36	53.98	7.62	AV		

Operation Mode :		802.11ax_40	Tone & RU Index :		52T & 44	MCS index :		MCS0
Channel No. :		46	Frequency :		5230 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.85	H	57.85	73.98	16.13	PK		
5350 - 5460	46.37	H	46.37	53.98	7.61	AV		

802.11ax[HE40], 106 Tone

Operation Mode :		802.11ax_40	Tone & RU Index :		106T & 53	MCS index :		MCS0
Channel No. :		38	Frequency :		5190 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	58.21	H	58.21	73.98	15.77	PK		
4500 - 5150	46.74	H	46.74	53.98	7.24	AV		
Operation Mode :		802.11ax_40	Tone & RU Index :		106T & 56	MCS index :		MCS0
Channel No. :		46	Frequency :		5230 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.30	H	57.30	73.98	16.68	PK		
5350 - 5460	46.45	H	46.45	53.98	7.53	AV		

802.11ax[HE40], 242 Tone

Operation Mode :		802.11ax_40	Tone & RU Index :		242T & 61	MCS index :		MCS0
Channel No. :		38	Frequency :		5190 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.92	H	57.92	73.98	16.06	PK		
4500 - 5150	46.69	H	46.69	53.98	7.29	AV		

Operation Mode :		802.11ax_40	Tone & RU Index :		242T & 62	MCS index :		MCS0
Channel No. :		46	Frequency :		5230 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.98	H	57.98	73.98	16.00	PK		
5350 - 5460	46.40	H	46.40	53.98	7.58	AV		

802.11ax[HE40], 484 Tone

Operation Mode :		802.11ax_40	Tone & RU Index :		484T & 65	MCS index :		MCS0
Channel No. :		38	Frequency :		5190 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.60	H	57.60	73.98	16.38	PK		
4500 - 5150	47.32	H	47.32	53.98	6.66	AV		

Operation Mode :		802.11ax_40	Tone & RU Index :		484T & 65	MCS index :		MCS0
Channel No. :		46	Frequency :		5230 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.43	H	57.43	73.98	16.55	PK		
5350 - 5460	46.28	H	46.28	53.98	7.70	AV		

802.11ax[HE40], SU

Operation Mode :		802.11ax_40	Tone & RU Index :		SU	MCS index :		MCS0
Channel No. :		38	Frequency :		5190 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.87	H	57.87	73.98	16.11	PK		
4500 - 5150	47.46	H	47.46	53.98	6.52	AV		
Operation Mode :		802.11ax_40	Tone & RU Index :		SU	MCS index :		MCS0
Channel No. :		46	Frequency :		5230 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	59.20	H	59.20	73.98	14.78	PK		
5350 - 5460	46.48	H	46.48	53.98	7.50	AV		

802.11ax[HE80], 26 Tone

Operation Mode :		802.11ax_80	Tone & RU Index :		26T & 0	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.50	H	57.50	73.98	16.48	PK		
4500 - 5150	46.52	H	46.52	53.98	7.46	AV		
Operation Mode :		802.11ax_80	Tone & RU Index :		26T & 36	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.61	H	57.61	73.98	16.37	PK		
5350 - 5460	46.41	H	46.41	53.98	7.57	AV		

802.11ax[HE80], 52 Tone

Operation Mode :		802.11ax_80	Tone & RU Index :		52T & 37	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.24	H	57.24	73.98	16.74	PK		
4500 - 5150	46.53	H	46.53	53.98	7.45	AV		
Operation Mode :		802.11ax_80	Tone & RU Index :		52T & 52	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.58	H	57.58	73.98	16.40	PK		
5350 - 5460	46.27	H	46.27	53.98	7.71	AV		

802.11ax[HE80], 106 Tone

Operation Mode :		802.11ax_80	Tone & RU Index :		106T & 53	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.55	H	57.55	73.98	16.43	PK		
4500 - 5150	46.76	H	46.76	53.98	7.22	AV		
Operation Mode :		802.11ax_80	Tone & RU Index :		106T & 60	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.48	H	57.48	73.98	16.50	PK		
5350 - 5460	46.46	H	46.46	53.98	7.52	AV		

802.11ax[HE80], 242 Tone

Operation Mode :		802.11ax_80	Tone & RU Index :		242T & 61	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.03	H	57.03	73.98	16.95	PK		
4500 - 5150	46.75	H	46.75	53.98	7.23	AV		

Operation Mode :		802.11ax_80	Tone & RU Index :		242T & 64	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.45	H	57.45	73.98	16.53	PK		
5350 - 5460	46.44	H	46.44	53.98	7.54	AV		

802.11ax[HE80], 484 Tone

Operation Mode :		802.11ax_80	Tone & RU Index :		484T & 65	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	57.89	H	57.89	73.98	16.09	PK		
4500 - 5150	47.15	H	47.15	53.98	6.83	AV		

Operation Mode :		802.11ax_80	Tone & RU Index :		484T & 66	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	58.01	H	58.01	73.98	15.97	PK		
5350 - 5460	46.38	H	46.38	53.98	7.60	AV		

802.11ax[HE80], 996 Tone

Operation Mode :		802.11ax_80	Tone & RU Index :		996T & 67	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	58.04	H	58.04	73.98	15.94	PK		
4500 - 5150	47.76	H	47.76	53.98	6.22	AV		

Operation Mode :		802.11ax_80	Tone & RU Index :		996T & 67	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	57.35	H	57.35	73.98	16.63	PK		
5350 - 5460	46.27	H	46.27	53.98	7.71	AV		

802.11ax[HE80], SU

Operation Mode :		802.11ax_80	Tone & RU Index :		SU	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
4500 - 5150	58.82	H	58.82	73.98	15.16	PK		
4500 - 5150	48.17	H	48.17	53.98	5.81	AV		
Operation Mode :		802.11ax_80	Tone & RU Index :		SU	MCS index :		MCS0
Channel No. :		42	Frequency :		5210 MHz	Band :		UNII-1
Frequency [MHz]	Measured Value [dBμV]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type		
5350 - 5460	59.04	H	59.04	73.98	14.94	PK		
5350 - 5460	47.15	H	47.15	53.98	6.83	AV		

Note:

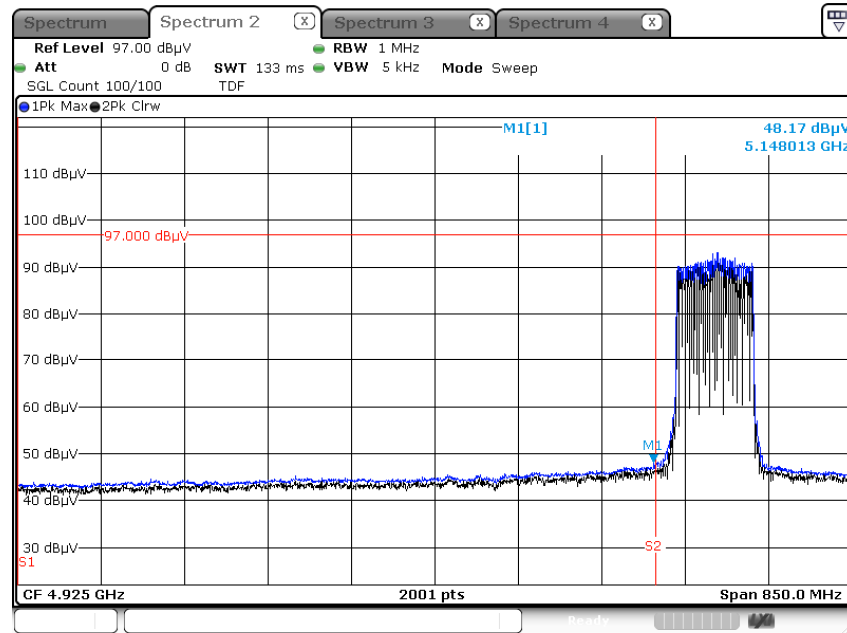
All Modes of operation were investigated and the worst case configuration results are reported.

In order to simplify the report, We only have attached Bandedge results of worst case.

Test Plots(UNII 1)

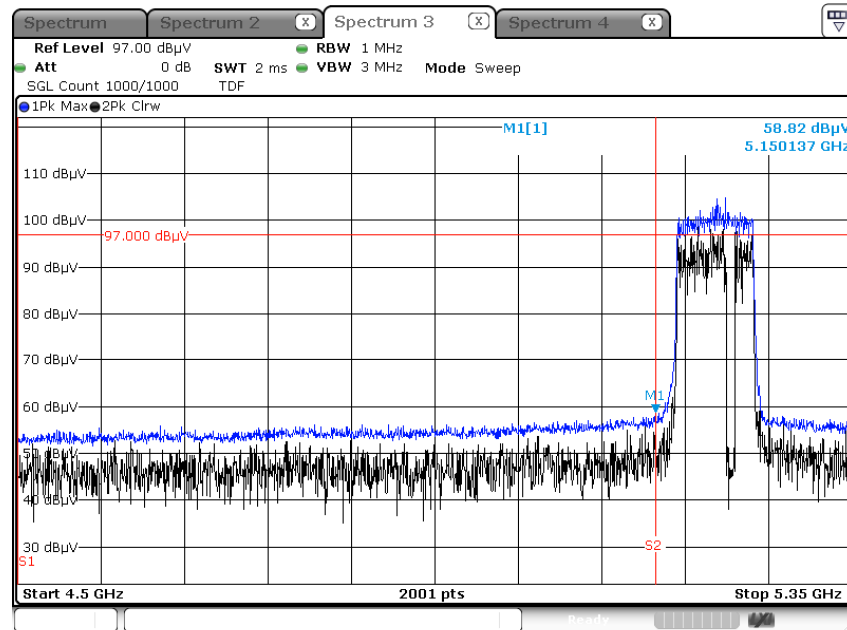
[MIMO_CDD(Ant.1+ Ant.2)]

Radiated Restricted Band Edges plot - Average result (802.11ax(HE80) SU, Ch.42, X-H)



Date: 27.APR.2026 13:47:18

Radiated Restricted Band Edges plot - Peak result (802.11ax(HE80) SU, Ch.42, X-H)



Date: 27.APR.2026 13:50:33

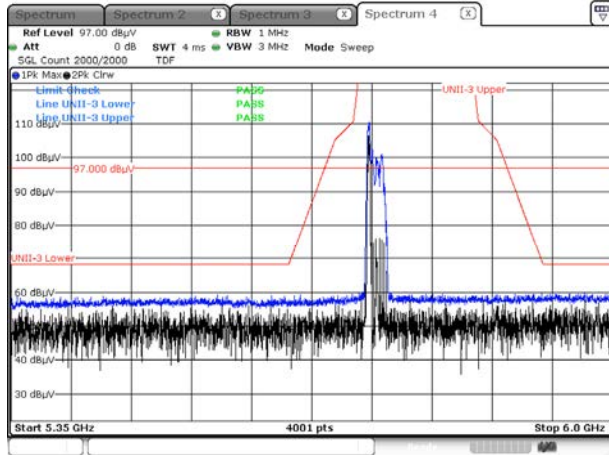
Note:

Only the worst case plots for Radiated Restricted Band Edge.

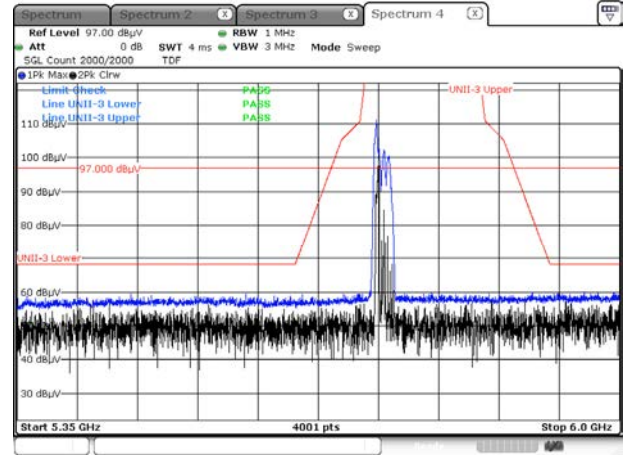
Test Plots(UNII 3)

MIMO_CDD(Ant.1+ Ant.2) Lower Edge

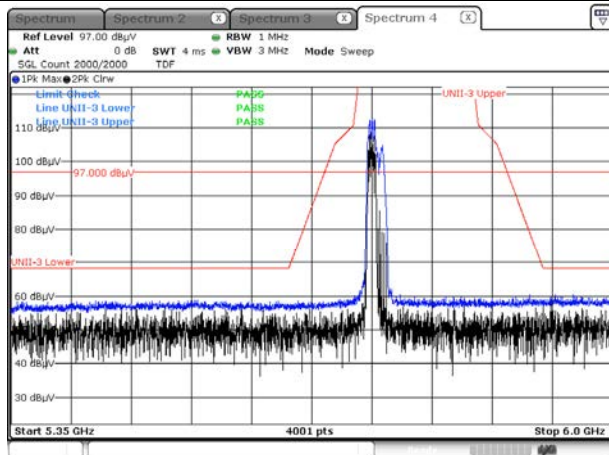
Peak result (802.11ax(HE20) Ch.149, 26T RU 0)



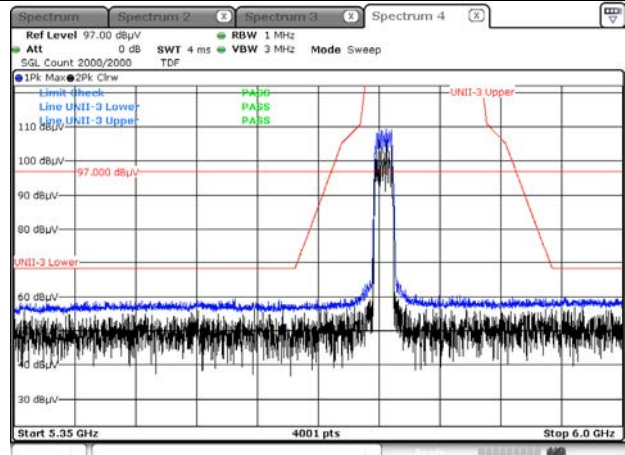
Peak result (802.11ax(HE20) Ch.149, 52T RU 37)



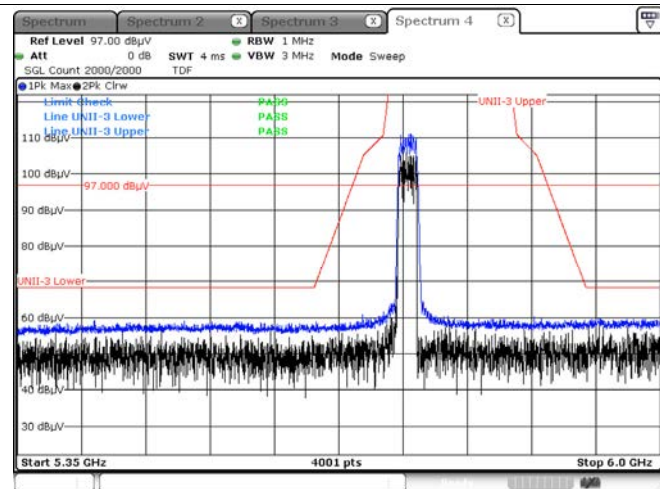
Peak result (802.11ax(HE20) Ch.149, 106T RU 53)



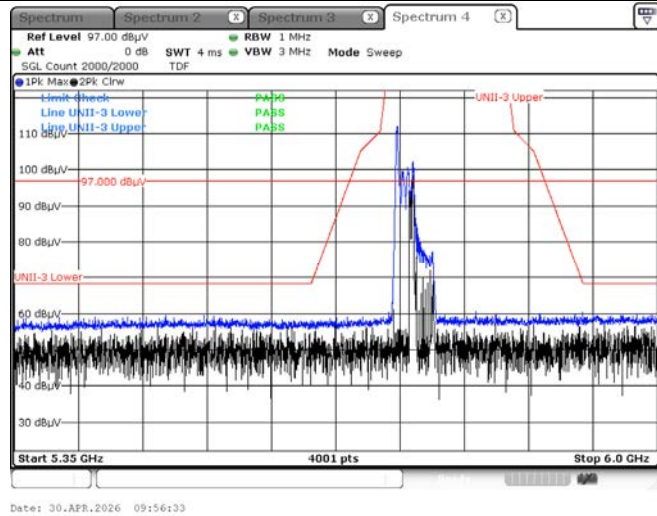
Peak result (802.11ax(HE20) Ch.149, 242T RU 61)



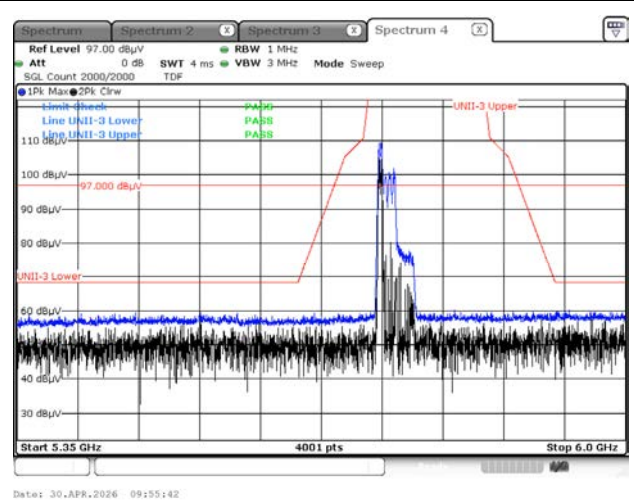
Peak result (802.11ax(HE20) Ch.149, SU)



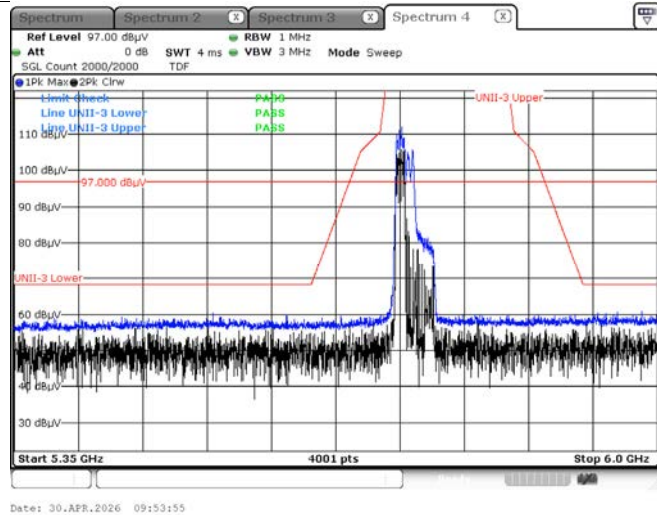
Peak result (802.11ax(HE40) Ch.151, 26T RU 0)



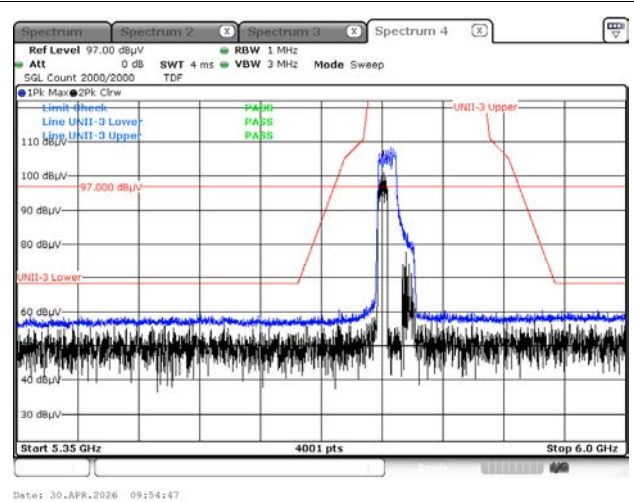
Peak result (802.11ax(HE40) Ch.151, 52T RU 37)



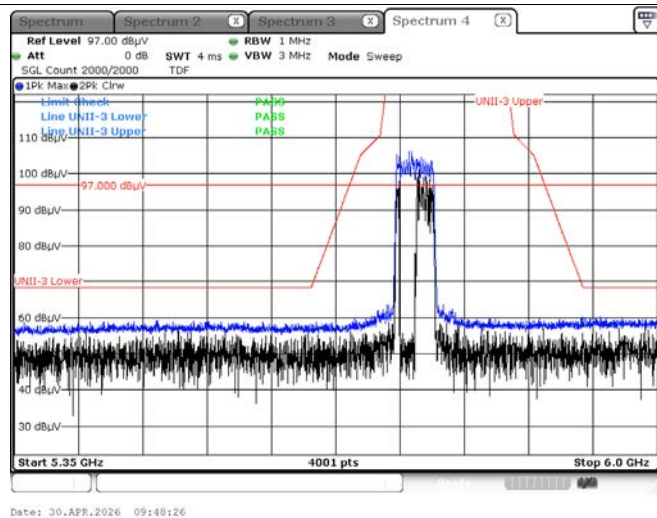
Peak result (802.11ax(HE40) Ch.151, 106T RU 53)



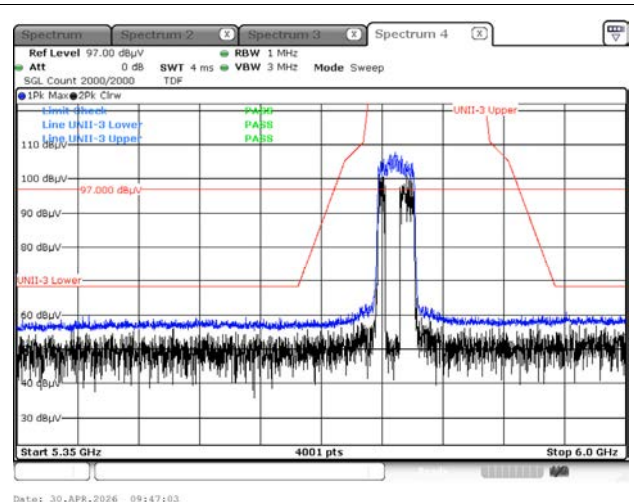
Peak result (802.11ax(HE40) Ch.151, 242T RU 61)



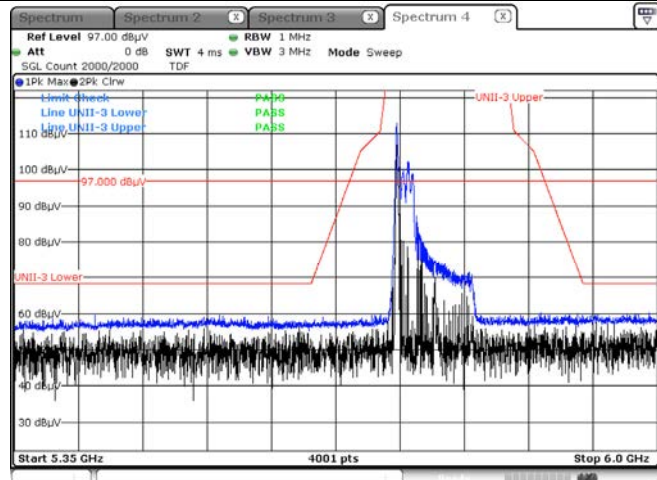
Peak result (802.11ax(HE40) Ch.151, 484T RU 65)



Peak result (802.11ax(HE40) Ch.151, SU)

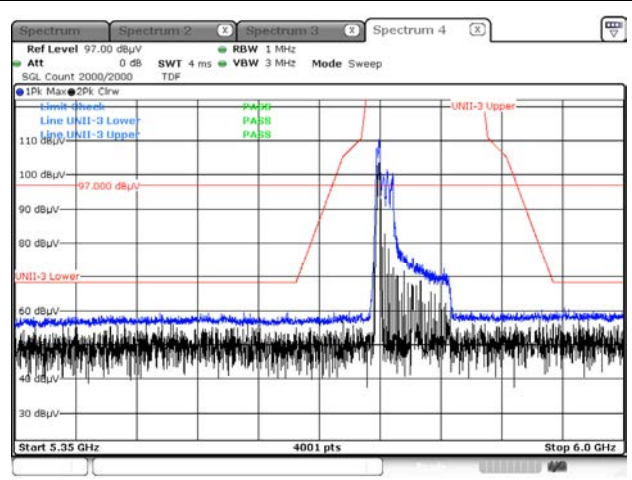


Peak result (802.11ax(HE80) Ch.155, 26T RU 0)



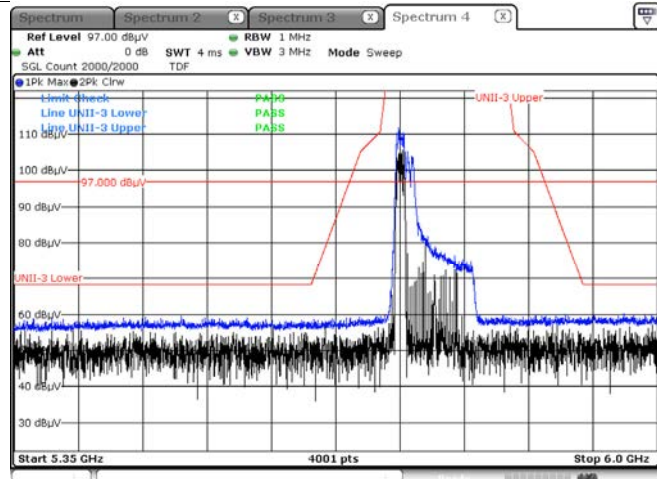
Date: 30.APR.2026 09:29:14

Peak result (802.11ax(HE80) Ch.155, 52T RU 37)



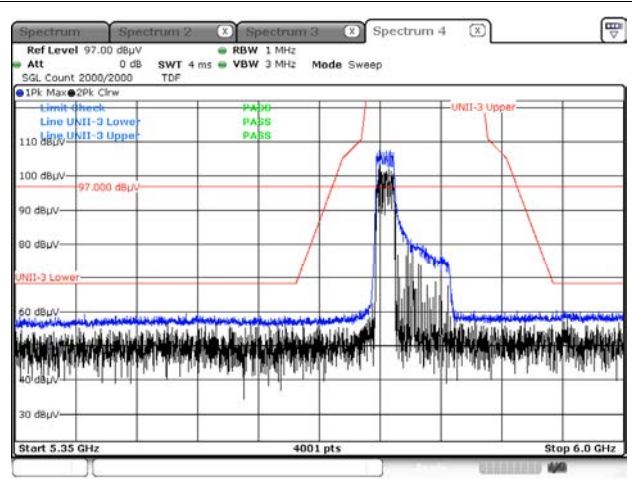
Date: 30.APR.2026 09:28:15

Peak result (802.11ax(HE80) Ch.155, 106T RU 53)



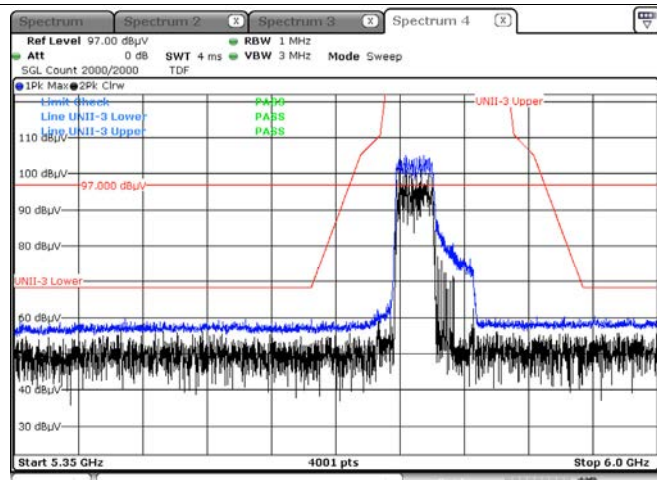
Date: 30.APR.2026 09:27:20

Peak result (802.11ax(HE80) Ch.155, 242T RU 61)



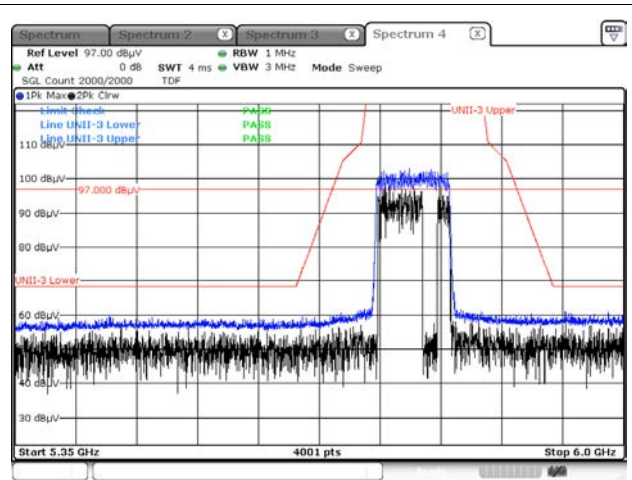
Date: 30.APR.2026 09:26:14

Peak result (802.11ax(HE80) Ch.155, 484T RU 65)



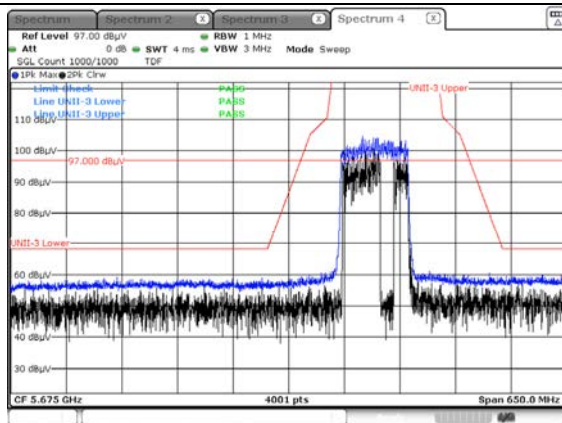
Date: 30.APR.2026 09:25:09

Peak result (802.11ax(HE80) Ch.155, 996T RU 67)



Date: 30.APR.2026 09:24:11

Peak result (802.11ax(HE80) Ch.155, SU)

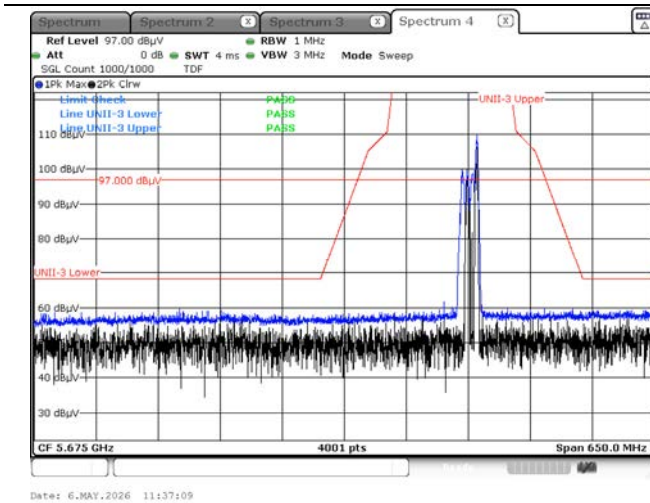


Date: 6/NOV/2026 10:53:27

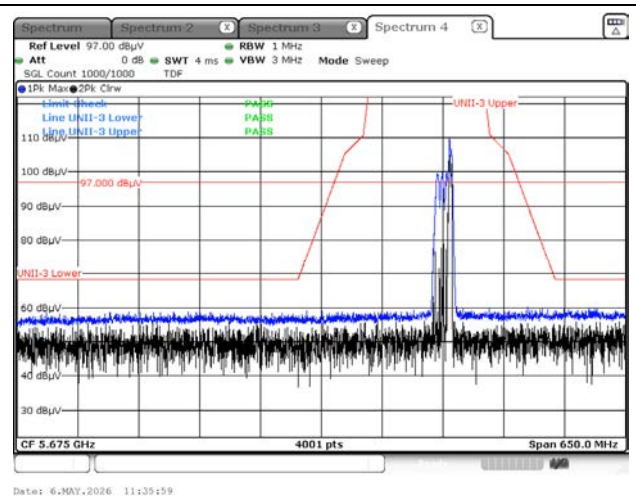
Test Plots(UNII 3)

MIMO_CDD(Ant.1+ Ant.2) Upper Edge

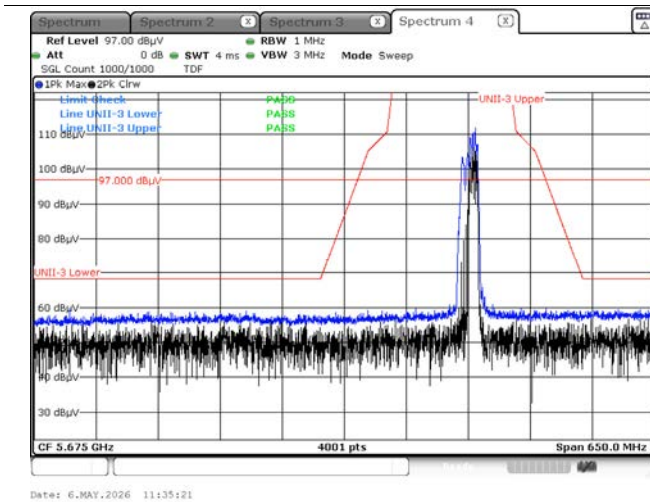
Peak result (802.11ax(HE20) Ch.161, 26T RU 8)



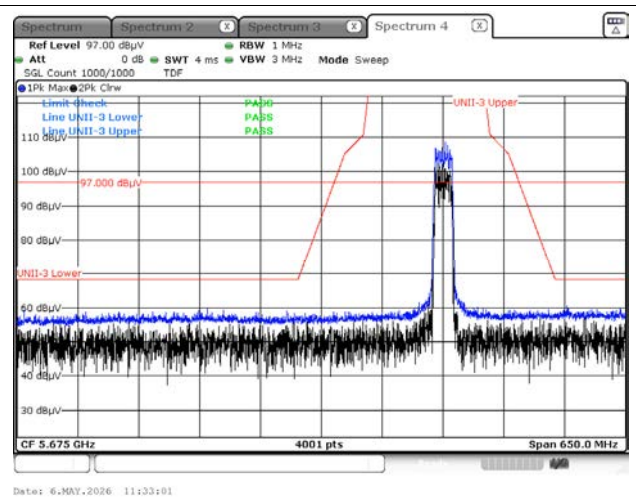
Peak result (802.11ax(HE20) Ch.161, 52T RU 40)



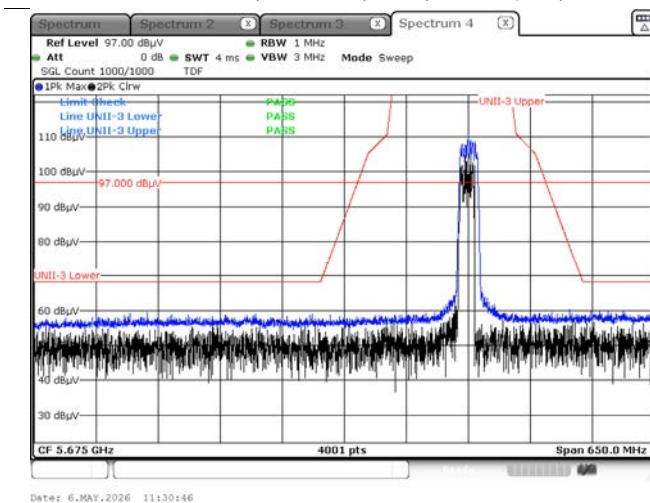
Peak result (802.11ax(HE20) Ch.161, 106T RU 54)



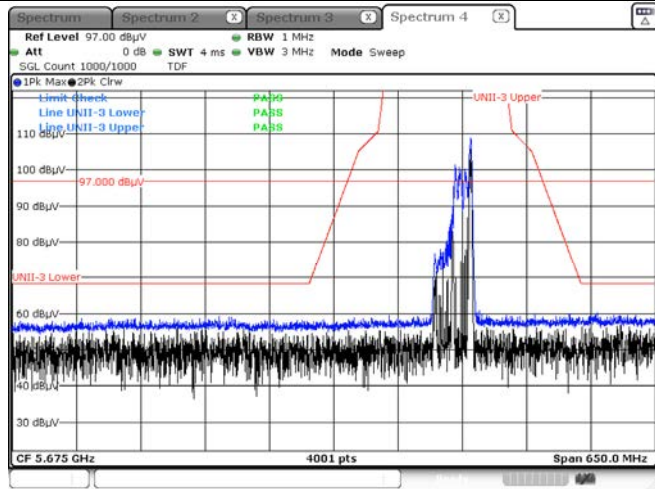
Peak result (802.11ax(HE20) Ch.161, 242T RU 61)



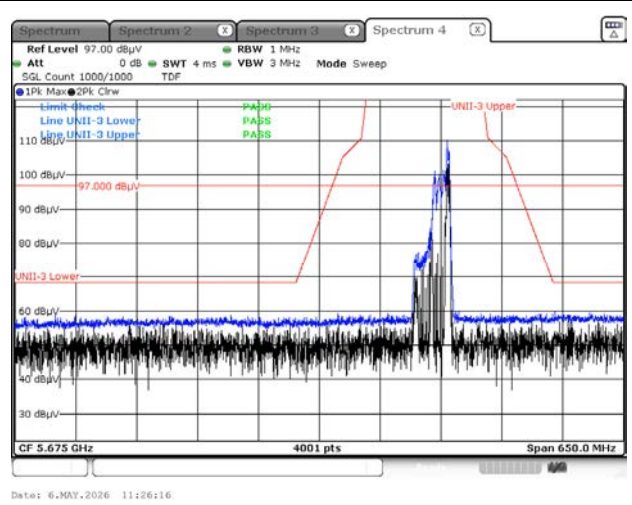
Peak result (802.11ax(HE20) Ch.161, SU)



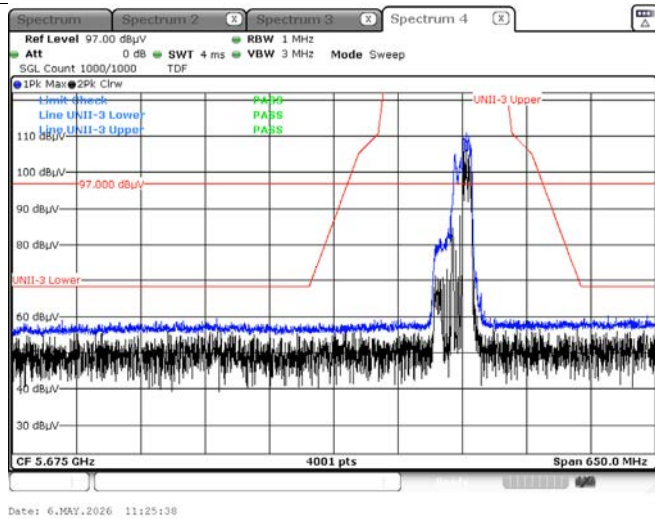
Peak result (802.11ax(HE40) Ch.159, 26T RU 17)



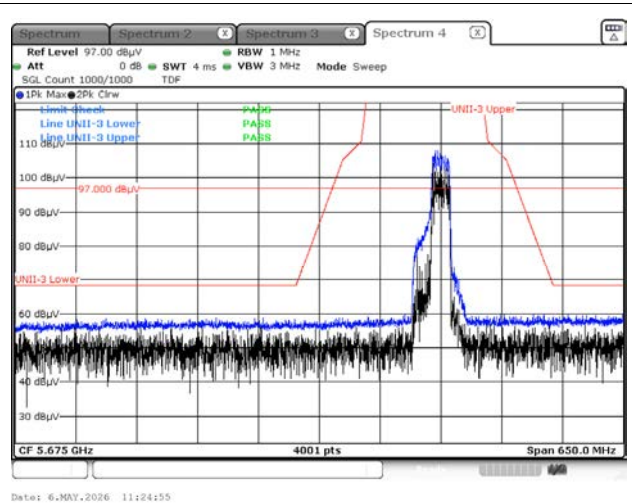
Peak result (802.11ax(HE40) Ch.159, 52T RU 44)



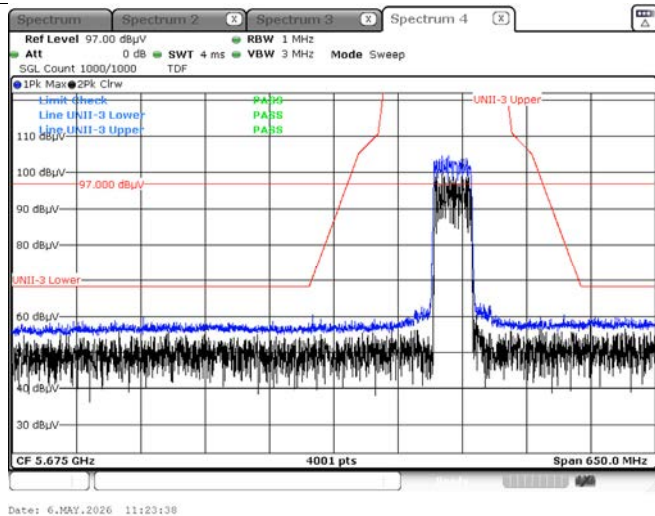
Peak result (802.11ax(HE40) Ch.159, 106T RU 56)



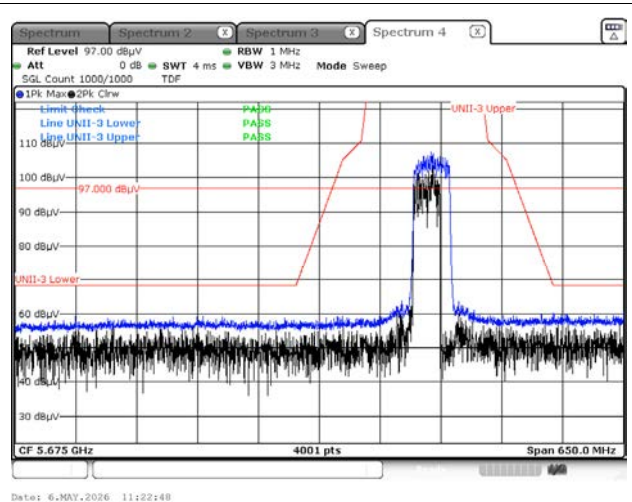
Peak result (802.11ax(HE40) Ch.159, 242T RU 62)



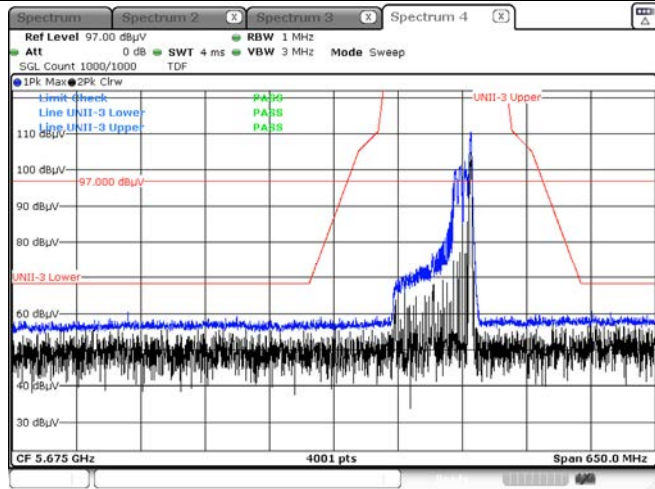
Peak result (802.11ax(HE40) Ch.159, 484T RU 65)



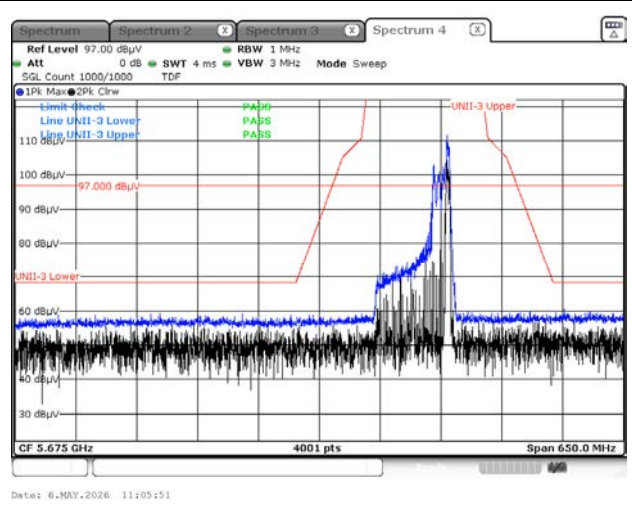
Peak result (802.11ax(HE40) Ch.159, SU)



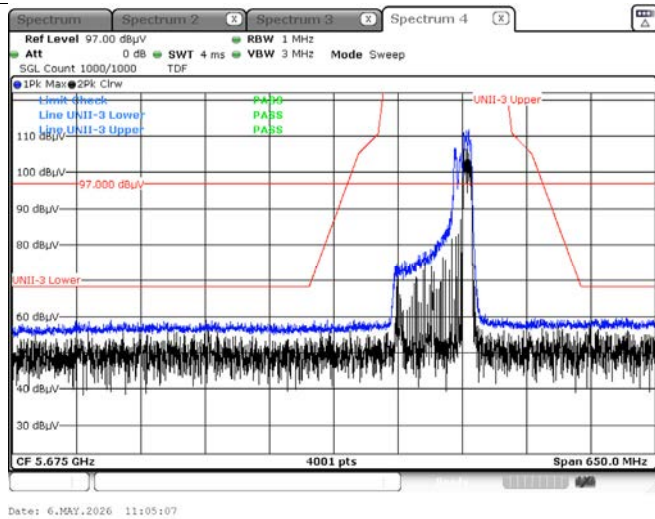
Peak result (802.11ax(HE80) Ch.155, 26T RU 36)



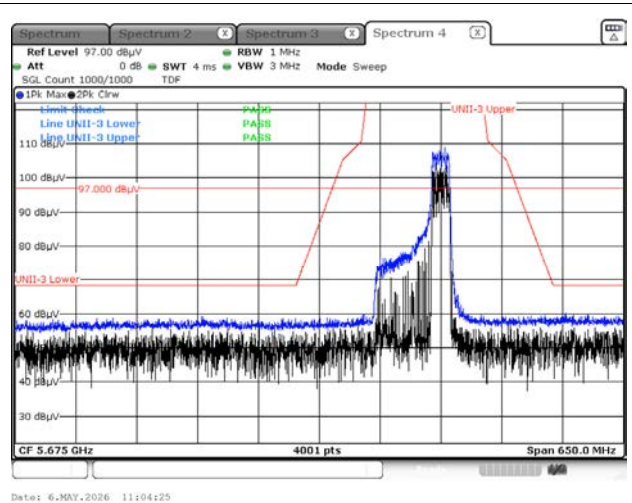
Peak result (802.11ax(HE80) Ch.155, 52T RU 52)



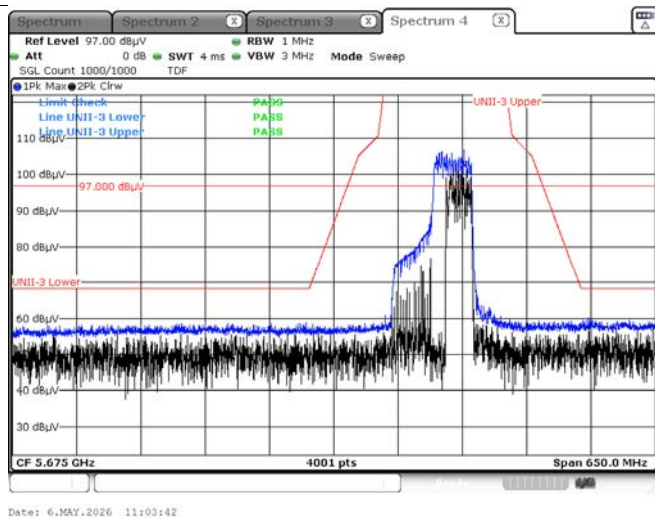
Peak result (802.11ax(HE80) Ch.155, 106T RU 60)



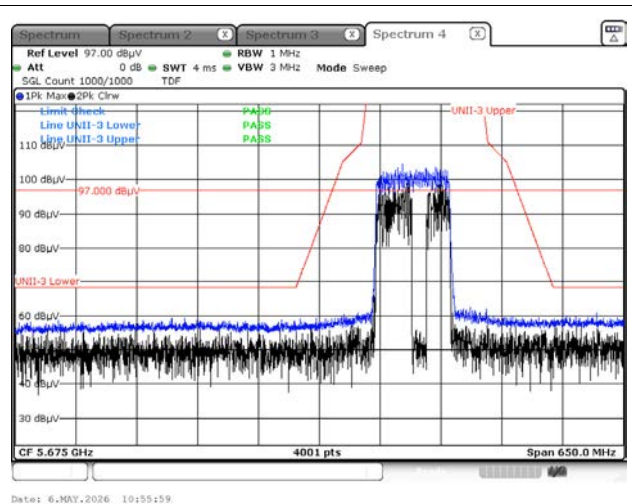
Peak result (802.11ax(HE80) Ch.155, 242T RU 64)



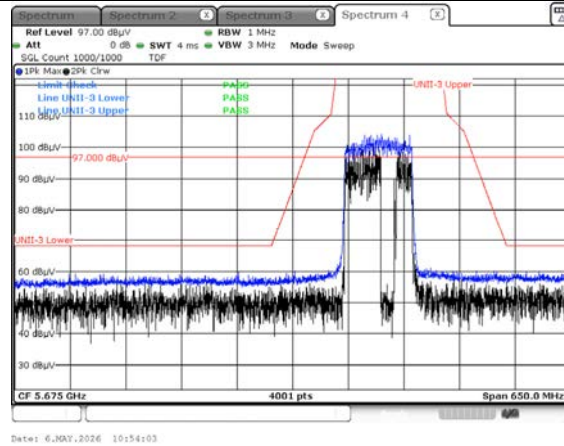
Peak result (802.11ax(HE80) Ch.155, 484T RU 66)



Peak result (802.11ax(HE80) Ch.155, 996T RU 67)



Peak result (802.11ax(HE80) Ch.155, SU)



Note :

1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.

11. LIST OF TESTEQUIPMENT

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/15/2026	Annual
EMI Test Receiver	ESR7	Rohde & Schwarz	101910	08/20/2026	Annual
Chamber	SU-642	ESPEC	93008124	02/04/2027	Annual
PXA Signal Analyzer	N9030A	Agilent	MY49432108	02/09/2027	Annual
Open Switch and Control Platform	OSP 120	Rohde & Schwarz	100935	07/24/2026	Annual
Power Meter	N1911A	Agilent	MY45100523	02/13/2027	Annual
WIDEBAND POWER SENSOR	N1921A	Keysight	MY57820067	01/26/2027	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/14/2026	Annual
Power Splitter	11667B	Hewlett Packard	10545	01/15/2027	Annual
DC Power Supply	E3632A	Hewlett Packard	KR40010370	07/07/2026	Annual
Attenuator	8493C-010	Keysight	07560	04/29/2027	Annual
Attenuator	8493C-010	HP	08285	05/08/2027	Annual
Attenuator	18N-20dB	Rohde & Schwarz	8	02/09/2027	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
Bluetooth Tester	CBT	Rohde & Schwarz	100752	12/22/2026	Annual
Automation Software	FCC WLAN Conducted	HCT CO., LTD	N/A	N/A	N/A
Automation Software	FCC Bluetooth Conducted	HCT CO., LTD	N/A	N/A	N/A

Note:

1. Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update.

All reported measurements were performed using equipment within valid calibration.

2. Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Antenna Mast Controller	CO3000	Innco system GmbH	CO3000/842/35030115/L	N/A	N/A
Antenna Mast	MA4640/800-XP-EP	Innco system GmbH	S3AM	07/25/2026	Annual
Turn Table	DS1500-S-1t	Innco system GmbH	6290425	N/A	N/A
Loop Antenna	FMZB 1513	Schwarzbeck Mess-Elektronik OHG	1513-175	06/24/2027	Biennial
Trilog Broadband Antenna	VULB 9168	Schwarzbeck Mess-Elektronik OHG	01135	08/19/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck Mess-Elektronik OHG	9120D-1191	10/21/2027	Biennial
Horn Antenna	BBHA 9170	Schwarzbeck Mess-Elektronik OHG	BBHA9170124	03/23/2027	Biennial
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments GmbH	2	12/11/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments GmbH	5	03/19/2027	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments GmbH	6	03/19/2027	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments GmbH	1	01/07/2027	Annual
RF Switching System	FBSR-03A (3G HPF+LNA)	T&M SYSTEM	S3L1	10/20/2026	Annual
RF Switching System	FBSR-03A (10dB ATT+LNA)	T&M SYSTEM	S3L2	10/20/2026	Annual
RF Switching System	FBSR-03A (7G HPF+LNA)	T&M SYSTEM	S3L3	10/20/2026	Annual
RF Switching System	FBSR-03A (3dB ATT+LNA)	T&M SYSTEM	S3L4	10/20/2026	Annual
RF Switching System	FBSR-03A (Thru)	T&M SYSTEM	S3L5	10/20/2026	Annual
DC Power Supply	E3632A	Hewlett Packard	KR75305528	12/12/2026	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD.	-	-	-
Broadband LNA	CBL18265035	CERNEX	22966	10/21/2026	Annual
Broadband LNA	CBL26405040	CERNEX	25956	02/09/2027	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	03/03/2027	Annual
Spectrum Analyzer	FSV40	Rohde & Schwarz	100900	04/14/2027	Annual

Note:

1. Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update.

All reported measurements were performed using equipment within valid calibration.

2. Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2605-FC028-P