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FCC UNII REPORT

Certification

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Address:
129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Date of Issue:
August 19, 2021

Test Site/Location:
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA

Report No.: HCT-RF-2108-FC007

FCC ID:	**A3LSMM526B**
APPLICANT:	**SAMSUNG Electronics Co., Ltd.**
Model:	SM-M526B/DS
EUT Type:	Mobile Phone
Modulation type	OFDMA
FCC Classification:	Unlicensed National Information Infrastructure(NII)
FCC Rule Part(s):	Part 15.407

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.

REVIEWED BY

Report prepared by : Sang Hoon Lee
Engineer of Telecommunication Testing Center

Report approved by : Kwon Jeong
Manager of Telecommunication Testing Center

This test results were applied only to the test methods required by the standard.

This laboratory is not accredited for the test results marked *.
The above Test Report is the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-2108-FC007	August 19, 2021	- First Approval Report

Table of Contents

1. GENERAL INFORMATION

EUT DESCRIPTION

Model	SM-M526B/DS	
Additional Model	-	
EUT Type	Mobile Phone	
Power Supply	DC 3.86 V	
Modulation Type	OFDMA	
Frequency Range (MHz)	U-NII-1	20 MHz BW : 5180 - 5240 40 MHz BW : 5190 - 5230 80 MHz BW : 5210
	U-NII-2A	20 MHz BW : 5260 - 5320 40 MHz BW : 5270 - 5310 80 MHz BW : 5290
	U-NII-2C	20 MHz BW : 5500 - 5720 40 MHz BW : 5510 - 5710 80 MHz BW : 5530 – 5690
	U-NII-3	20 MHz BW : 5745 - 5825 40 MHz BW : 5755 - 5795 80 MHz BW : 5775
Straddle channel	Supported	
TDWR Band	Supported	
Dynamic Frequency Selection	Slave without radar detection	
Date(s) of Tests	July 26, 2021 ~ August 18, 2021	
Serial number	Radiated: R3CR60J8ZHX Conducted: 49aad8bca8197ece	

2. MAXIMUM OUTPUT POWER

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

Band	Mode	Maximum output power	
		(dBm)	(W)
UNII1	802.11ax (HE20)	14.65	0.029
	802.11ax (HE40)	14.94	0.031
	802.11ax (HE80)	12.83	0.019
UNII2A	802.11ax (HE20)	14.63	0.029
	802.11ax (HE40)	13.55	0.023
	802.11ax (HE80)	10.98	0.013
UNII2C	802.11ax (HE20)	13.87	0.024
	802.11ax (HE40)	14.43	0.028
	802.11ax (HE80)	13.90	0.025
UNII3	802.11ax (HE20)	14.71	0.030
	802.11ax (HE40)	14.79	0.030
	802.11ax (HE80)	13.02	0.020

3. TEST METHODOLOGY

The measurement procedure described in FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 dated December 14, 2017 entitled “Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part15, Subpart E” and ANSI C63.10(Version : 2013) ‘the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices’ were used in the measurement.

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. (Version :2013) 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

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 according to the requirements in Section 6.6.5 of ANSI C63.10. (Version: 2013)

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 C63.5 (Version : 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, 17383, Rep. of KOREA. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.

Detailed description of test facility was submitted to the Commission and accepted dated April 02, 2018 (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 CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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."

(1) The antennas of this E.U.T are permanently attached.

(2) The E.U.T Complies with the requirement of §15.203, §15.407

7. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

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

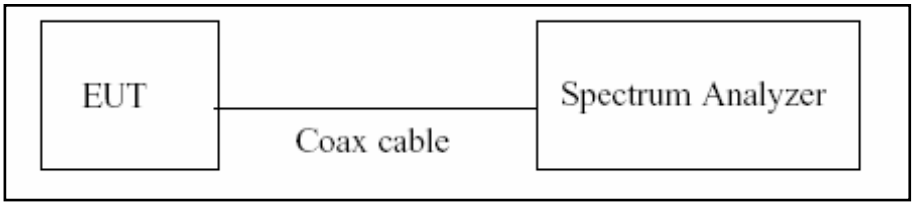
The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty (dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.82 (Confidence level about 95 %, k=2)
Radiated Disturbance (9 kHz ~ 30 MHz)	3.40 (Confidence level about 95 %, k=2)
Radiated Disturbance (30 MHz ~ 1 GHz)	4.80 (Confidence level about 95 %, k=2)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.70 (Confidence level about 95 %, k=2)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.05 (Confidence level about 95 %, k=2)

8. DESCRIPTION OF TESTS

8.1. Duty Cycle

Test Configuration



Test Procedure

The transmitter output is connected to the Spectrum Analyzer.

We tested according to Procedure B.2 in KDB 789033 D02 v02r01.

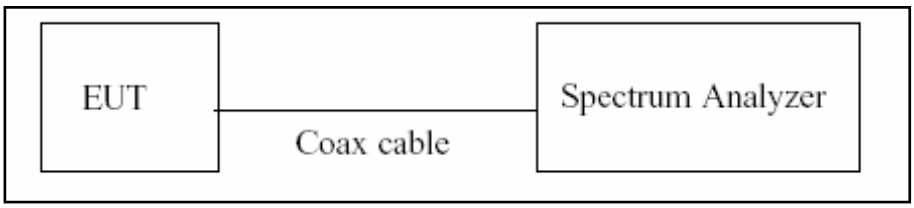
1. RBW = 8 MHz (the largest availble value)
2. VBW = 8 MHz (≥ RBW)
3. SPAN = 0 Hz
4. Detector = Peak
5. Number of points in sweep > 100
6. Trace mode = Clear write
7. Measure T_{total} and T_{on}
8. Calculate Duty Cycle = T_{on}/ T_{total} and Duty Cycle Factor = 10log(1/Duty Cycle)

8.2. 6 dB Bandwidth & 26 dB Bandwidth

Limit

Within the 5.725-5.85 GHz band, 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.

We tested according to Procedure C.1 in KDB 789033 D02 v02r01.

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.

We tested according to Procedure C.2 in KDB 789033 D02 v02r01.

1. RBW = 100 kHz
2. VBW ≥ 3 x 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 lever measured in the fundamental emission.

Note:

1. We tested X dB bandwidth using the automatic bandwidth measurement capability of a spectrum analyzer.
2. DFS test channels should be defined. So, We performed the OBW test to prove that no part of the fundamental emissions of any channels belong to UNII1 and UNII3 band for DFS.
3. The 26 dB bandwidth is used to determine the conducted power limits.

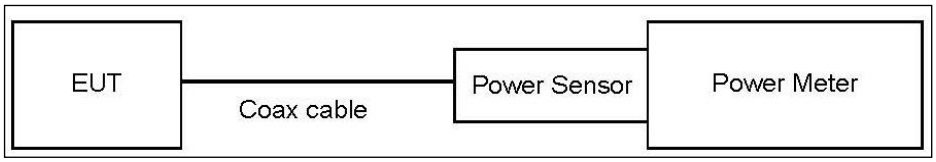
8.3. Output Power Measurement

Limit

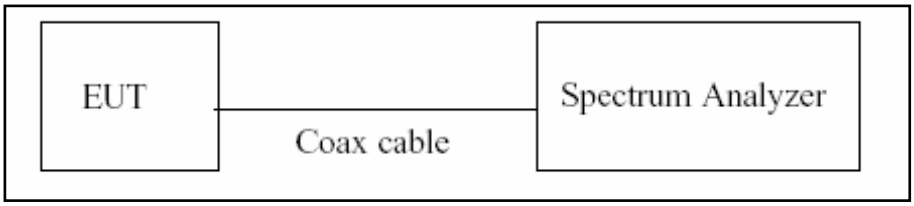
Band	Limit
UNII 1	- Master : Not exceed 1 W(=30 dBm) - Slave : Not exceed 250 mW(=23.98 dBm)
UNII 2A, 2C	Not exceed the lesser of 250 mW or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
UNII 3	Not exceed 1 W(=30 dBm)

Test Configuration

Power Meter



Spectrum Analyzer(Only Straddle Channel)



Test Procedure(Power Meter)

We tested according to Procedure E.3.a in KDB 789033 D02 v02r01.

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.

Test Procedure(Spectrum Analyzer)

The transmitter output is connected to the Spectrum Analyzer.

We use the spectrum analyzer's integrated band power measurement function.

We tested according to Procedure E.2.d) in KDB 789033 D02 v02r01.

1. Measure the duty cycle.
2. Set span to encompass the 26 dB EBW of the signal.
3. RBW = 1 MHz.
4. VBW ≥ 3 MHz.
5. Number of points in sweep ≥ 2 x span/RBW.
6. Sweep time = auto.
7. Detector = RMS.
8. Do not use sweep triggering. Allow the sweep to “free run”.
9. Trace average at least 100 traces in power averaging(RMS) mode
10. Integrated bandwidth = OBW
11. Add 10log(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 Level(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Levels are not plot data.
   The power results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset Loss = Attenuator loss(20 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1	20.82
UNII 2A	20.82
UNII 2C	20.82
UNII 3	20.82

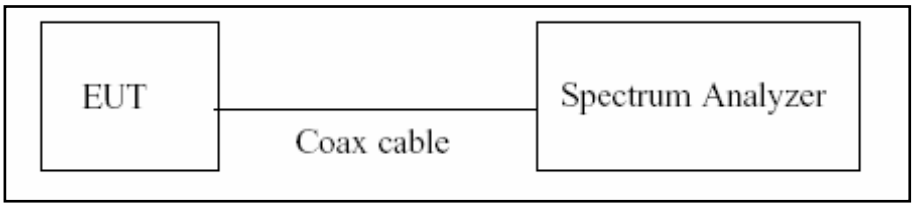
(Actual value of loss for the attenuator and cable combination)

8.4. Power Spectral Density

Limit

Band	Limit
UNII 1	11 dBm/MHz
UNII 2A, 2C	11 dBm/MHz
UNII 3	30 dBm/500 kHz

Test Configuration



Test Procedure

We tested according to Procedure F in KDB 789033 D02 v02r01.

1. Set span to encompass the entire emission bandwidth(EBW) of the signal.
2. RBW = 1 MHz(510 kHz for UNII 3)
3. VBW ≥ 3 MHz
4. Number of points in sweep ≥ 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 Level(dBm) + ATT loss(dB) + Cable loss(dB) + Duty Cycle Factor(dB)

Note

1. Spectrum Measured Levels are not plot data.
   The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
2. Spectrum offset Loss = Attenuator loss(20 dB) + Cable loss
3. Actual value of loss for the attenuator and cable combination is below table.

Band	Loss(dB)
UNII 1	20.82
UNII 2A	20.82
UNII 2C	20.82
UNII 3	20.82

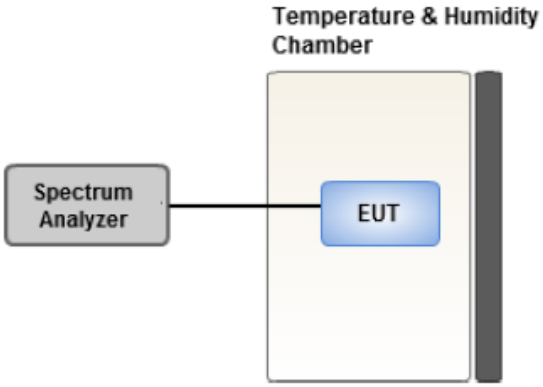
(Actual value of loss for the attenuator and cable combination)

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 ℃ and 50 ℃.
2. The temperature was incremented by 10 ℃ 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 battety 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 μH/50 ohms line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dBμV)	
	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 Level + 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 2A, 2C: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of −27 dBm/MHz.

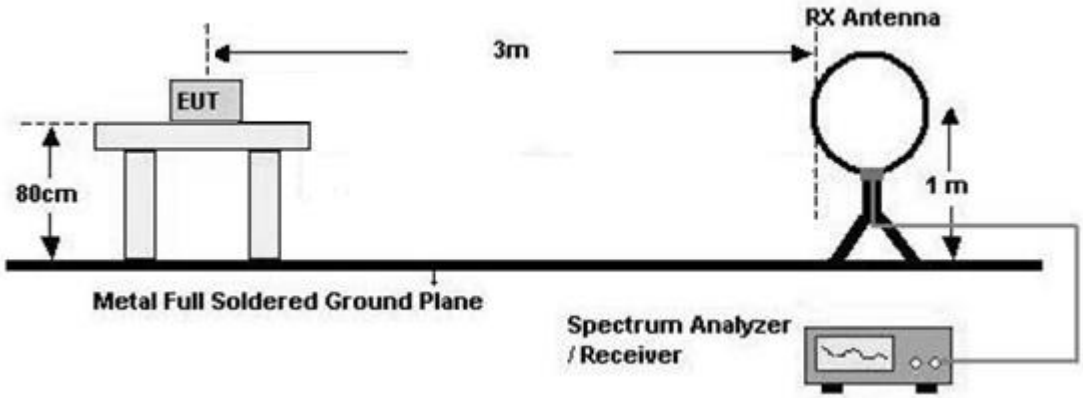
3. UNII 3: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below 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.

4. 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.

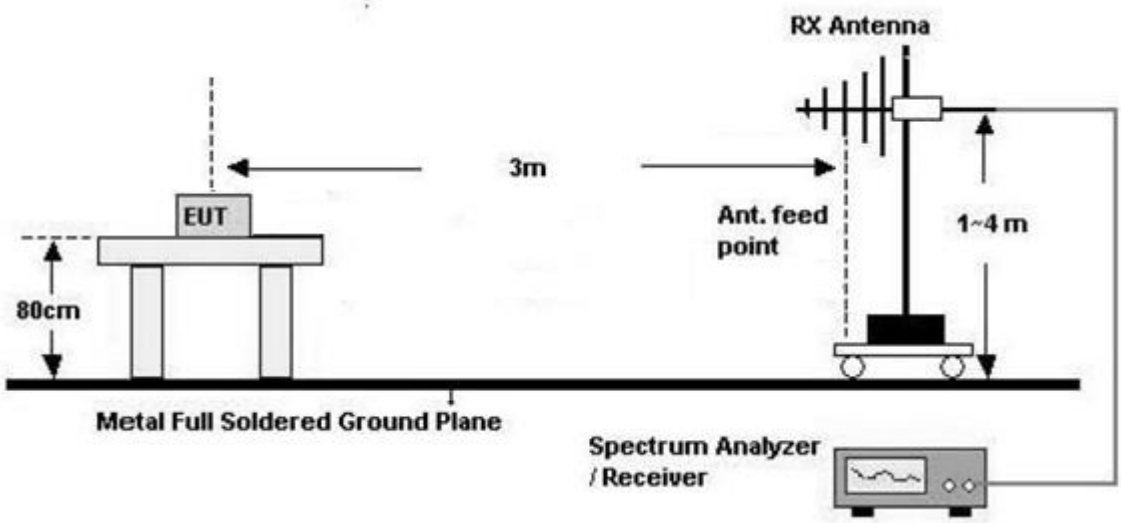
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

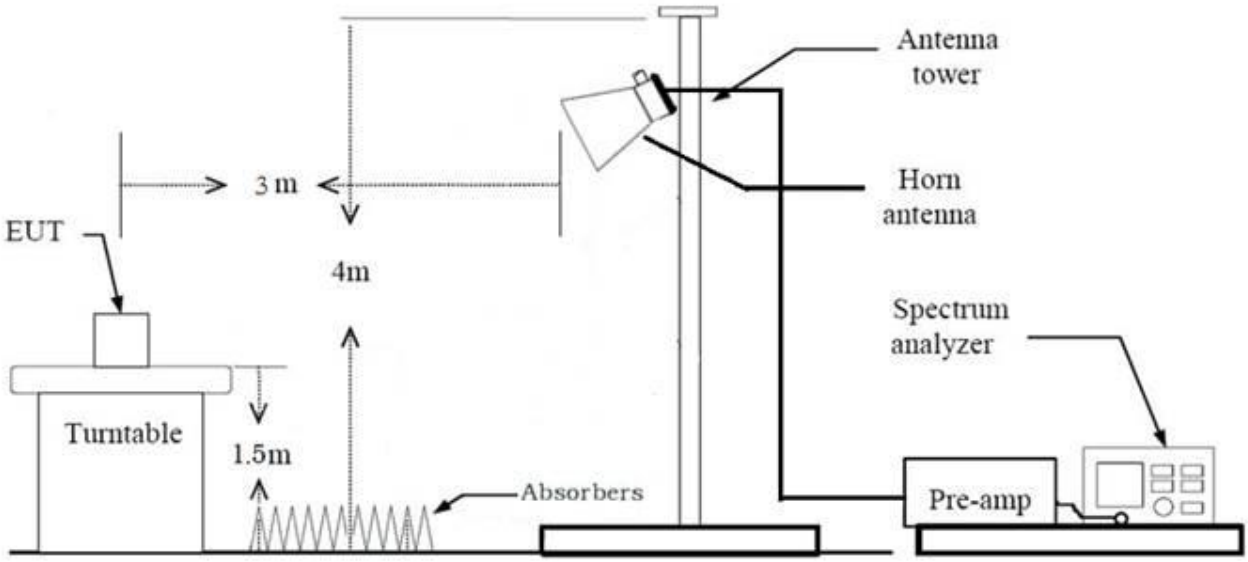
Below 30 MHz



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 0.8 m 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) = 40log(3 m/300 m) = - 80 dB
   Measurement Distance : 3 m
7. Distance Correction Factor(0.490 MHz – 30 MHz) = 40log(3 m/30 m) = - 40 dB
   Measurement Distance : 3 m
8. Spectrum Setting
   - Frequency Range = 9 kHz ~ 30 MHz
   - Detector = Peak
   - Trace = Max Hold
   - RBW = 9 kHz
   - VBW ≥ 3 x RBW
9. Total = Measured Level + 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 0.8 m 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 Setting
   (1) Measurement Type(Peak):
      - Measured Frequency Range : 30 MHz – 1 GHz
      - Detector = Peak
      - Trace = Max Hold
      - RBW = 100 kHz
      - VBW ≥ 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 Level + 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. The unit was tested with its standard battery.
8. Spectrum Setting

(1) Measurement Type (Peak, G.5 in KDB 789033 v02r01):

- RBW = 1 MHz
- VBW ≥ 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, G.6.d in KDB 789033 v02r01):

- RBW = 1 MHz
- VBW(Duty cycle ≥ 98 percent) = VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
- VBW(Duty cycle is < 98 percent) = VBW ≥ 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 minimym number of traces by a factor of 1/x, where x is the duty cycle.

9. 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
10. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency
11. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
12. Total = Measured Level + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(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. The unit was tested with its standard battery.
8. Spectrum Setting

(1) Measurement Type(Peak, G.5 in KDB 789033 v02r01):

- RBW = 1 MHz
- VBW ≥ 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, G.6.d in KDB 789033 v02r01):

- RBW = 1 MHz
- VBW(Duty cycle ≥ 98 percent) = VBW ≤ RBW/100(i.e., 10 kHz) but not less than 10 Hz.
- VBW(Duty cycle is < 98 percent) = VBW ≥ 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 minimym number of traces by a factor of 1/x, where x is the duty cycle.

9. Measured Frequency Range :
   - 4 500 MHz ~ 5 150 MHz
   - 5 350 MHz ~ 5 460 MHz
   - 5 460 MHz ~ 5 470 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)
10. Distance extrapolation factor = 20log (test distance / specific distance) (dB)
11. Total = Measured Level + Antenna Factor(A.F) + Cable Loss(C.L) - Amp Gain(G) + Attenuator + Distance Factor(D.F)

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	MCS 0	0.996	0.02	0.197	1000
	52	MCS 0	0.997	0.01	0.197	1000
	106	MCS 0	0.994	0.03	0.361	1000
	242	MCS 0	0.986	0.06	0.801	1000
	SU	MCS 0	0.994	0.03	0.184	1000
802.11ax (HE40)	26	MCS 0	0.997	0.01	0.197	1000
	52	MCS 0	0.996	0.02	0.197	1000
	106	MCS 0	0.995	0.02	0.361	1000
	242	MCS 0	0.988	0.05	0.801	1000
	484	MCS 0	0.974	0.12	1.518	2000
	SU	MCS 0	0.994	0.03	0.184	1000
802.11ax (HE80)	26	MCS 0	0.996	0.02	0.197	1000
	52	MCS 0	0.996	0.02	0.197	1000
	106	MCS 0	0.995	0.02	0.361	1000
	242	MCS 0	0.986	0.06	0.802	2000
	484	MCS 0	0.978	0.10	1.512	2000
	996	MCS 0	0.959	0.18	2.800	3000
	SU	MCS 0	0.994	0.03	0.184	1000

8.8. Test RU offset 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	-

8.8. 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 (All Tone)

Radiated test

1. Full RU(Resource Unit) mode and SU(Single Unit) mode have no difference in physical waveform.
   This Report has been described only Full RU mode with worst output power
2. All modes of operation were investigated and the worst case configuration results are reported.
   - Mode : Stand alone, Stand alone + External accessories(Earphone, etc)
   - Worstcase : Stand alone
3. EUT Axis
   - Radiated Spurious Emissions : Y
   - Radiated Restricted Band Edge : X
4. All data rate of operation were investigated and the worst case results are reported.
   (Worst case : MCS0)
5. All Antenna of operation were investigated and the worst case results are reported
6. 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
7. We were performed the RSE test in condition of co-location. There has no significant emission raised.
   - WWAN+WLAN 5 GHz+BT
8. All mode(Tone, RU Offset) of operation were investigated and the worst case configuration results are reported

Test	Tone	RU Offset
RSE	[HE 20] Worst case(Highest Power) : 242T [HE 40] Worst case(Highest Power) : 484T [HE 80] Worst case(Highest Power) : 996T	[HE 20] Mid 61 [HE 40] Mid 65 [HE 80] Mid 67
	[HE20] Additional Tone: 26T [HE40] Additional Tone: 26T [HE80] Additional Tone: 26T	[HE 20] Mid 4 [HE 40] Mid 9 [HE 80] Mid 18
Bandedge (UNII1,2A,2C)	[HE 20] Worst case(Highest Power) : 242T [HE 40] Worst case(Highest Power) : 484T [HE 80] Worst case(Highest Power) : 996T	[HE 20] Mid 61 [HE 40] Mid 65 [HE 80] Mid 67

	[HE 20] Additional Tone: 26T, 52T, 106T [HE 40] Additional Tone: 26T, 52T, 106T, 242T [HE 80] Additional Tone: 26T, 52T, 106T, 242T, 484T	[HE20] Low Edge: 0, 37, 53 High Edge: 8, 40, 54 [HE40] Low Edge: 0, 37, 53, 61 High Edge: 17, 44, 56, 62 [HE80] Low Edge: 0, 37, 53, 61, 65 High Edge: 36, 52, 60, 64, 66
Bandedge (Straddle, UNII3)	[HE 20] Worst case(Highest Power) : 242T [HE 40] Worst case(Highest Power) : 484T [HE 80] Worst case(Highest Power) : 996T	[HE 20] Mid 61 [HE 40] Mid 65 [HE 80] Mid 67

Radiated test(DBS)

1. Please refer to the SM-M526B/DS[UNII] Test Report.

AC Power line Conducted Emissions

1. Please refer to the SM-M526B/DS[UNII] Test Report.

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)		PASS
Maximum Conducted Output Power	§15.407(a)(1),(2),(3)	< 250 mW(5150-5250 MHz) < 250 mW or 11+10log$_{10}$ (BW) dBm (5250-5350 MHz) < 250 mW or 11+10log$_{10}$ (BW) dBm (5470-5725 MHz) <1 W(5725-5850 MHz)		PASS
Maximum Power Spectral Density	§15.407(a)(1),(2),(3)	<11 dBm/ MHz (5150-5250 MHz) <11 dBm/ MHz (5250-5350 MHz) <11 dBm/ MHz (5470-5725 MHz) <30 dBm/500 kHz(5725-5850 MHz)		PASS
Frequency Stability	§15.407(g) §2.1055	Maintained within the band		PASS (Note1)
AC Conducted Emissions 150 kHz-30 MHz	15.207 15.407(b)(8)	<FCC 15.207 limits		PASS (Note1)
Undesirable Emissions	§15.407(b) (1),(2),(3),(4)	<-27 dBm/MHz EIRP (UNII1, 2A, 2C) 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. Please refer to the SM-M526B/DS[UNII] Test Report.

10. TEST RESULT

10.1 DUTY CYCLE

802.11ax(HE20)

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE20)	26	MCS0	5.088	5.107	0.996	0.02
		MCS1	5.077	5.092	0.997	0.01
		MCS2	3.894	3.909	0.996	0.02
		MCS3	2.936	2.954	0.994	0.03
		MCS4	1.984	2.001	0.991	0.04
		MCS5	1.502	1.520	0.988	0.05
		MCS6	1.348	1.365	0.987	0.06
		MCS7	1.224	1.241	0.986	0.06
		MCS8	1.026	1.044	0.983	0.07
		MCS9	0.937	0.955	0.981	0.08
	52	MCS0	5.077	5.092	0.997	0.01
		MCS1	2.936	2.954	0.994	0.03
		MCS2	1.984	2.001	0.991	0.04
		MCS3	1.502	1.520	0.988	0.05
		MCS4	1.026	1.044	0.983	0.07
		MCS5	0.785	0.803	0.978	0.10
		MCS6	0.712	0.730	0.976	0.11
		MCS7	0.651	0.669	0.973	0.12
		MCS8	0.552	0.570	0.969	0.14
		MCS9	0.507	0.524	0.966	0.15
	106	MCS0	2.766	2.784	0.994	0.03
		MCS1	1.419	1.436	0.988	0.05
		MCS2	0.970	0.988	0.982	0.08
		MCS3	0.747	0.765	0.977	0.10
		MCS4	0.521	0.540	0.966	0.15
		MCS5	0.411	0.429	0.957	0.19
		MCS6	0.375	0.393	0.955	0.20
		MCS7	0.347	0.365	0.950	0.22
		MCS8	0.299	0.317	0.944	0.25
		MCS9	0.279	0.296	0.940	0.27
	242	MCS0	1.249	1.267	0.986	0.06
		MCS1	0.659	0.676	0.974	0.12

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS2	0.464	0.481	0.963	0.16
		MCS3	0.367	0.385	0.954	0.20
		MCS4	0.266	0.284	0.938	0.28
		MCS5	0.218	0.236	0.925	0.34
		MCS6	0.203	0.224	0.905	0.43
		MCS7	0.193	0.210	0.916	0.38
		MCS8	0.177	0.193	0.918	0.37
		MCS9	0.165	0.181	0.910	0.41
		MCS10	0.155	0.175	0.884	0.54
		MCS11	0.144	0.162	0.891	0.50

802.11ax(HE40)

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax(HE40)	26	MCS0	5.088	5.103	0.997	0.01
		MCS1	5.077	5.092	0.997	0.01
		MCS2	3.892	3.910	0.995	0.02
		MCS3	2.936	2.954	0.994	0.03
		MCS4	1.984	2.001	0.991	0.04
		MCS5	1.505	1.520	0.990	0.04
		MCS6	1.348	1.365	0.987	0.06
		MCS7	1.224	1.241	0.986	0.06
		MCS8	1.026	1.044	0.983	0.07
		MCS9	0.937	0.953	0.984	0.07
	52	MCS0	5.073	5.092	0.996	0.02
		MCS1	2.936	2.951	0.995	0.02
		MCS2	1.984	2.001	0.991	0.04
		MCS3	1.505	1.523	0.988	0.05
		MCS4	1.029	1.044	0.985	0.06
		MCS5	0.788	0.806	0.978	0.10
		MCS6	0.712	0.730	0.976	0.11
		MCS7	0.651	0.669	0.973	0.12
		MCS8	0.555	0.570	0.973	0.12
		MCS9	0.507	0.524	0.966	0.15
	106	MCS0	2.769	2.784	0.995	0.02
		MCS1	1.419	1.436	0.988	0.05
		MCS2	0.973	0.988	0.985	0.07
		MCS3	0.747	0.765	0.977	0.10
		MCS4	0.524	0.542	0.967	0.14
		MCS5	0.410	0.428	0.959	0.18
		MCS6	0.375	0.393	0.955	0.20
		MCS7	0.347	0.365	0.951	0.22
		MCS8	0.299	0.317	0.944	0.25
		MCS9	0.279	0.296	0.940	0.27
	242	MCS0	1.249	1.264	0.988	0.05
		MCS1	0.659	0.676	0.974	0.12
		MCS2	0.466	0.481	0.968	0.14
		MCS3	0.367	0.385	0.954	0.20

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS4	0.269	0.286	0.938	0.28
		MCS5	0.219	0.236	0.929	0.32
		MCS6	0.205	0.220	0.931	0.31
		MCS7	0.192	0.209	0.919	0.36
		MCS8	0.175	0.192	0.912	0.40
		MCS9	0.162	0.180	0.901	0.45
		MCS10	0.155	0.173	0.894	0.49
		MCS11	0.143	0.161	0.886	0.53
	484	MCS0	0.659	0.676	0.974	0.12
		MCS1	0.367	0.385	0.954	0.20
		MCS2	0.269	0.286	0.938	0.28
		MCS3	0.220	0.236	0.934	0.30
		MCS4	0.175	0.193	0.905	0.43
		MCS5	0.149	0.166	0.898	0.47
		MCS6	0.143	0.160	0.894	0.49
		MCS7	0.130	0.147	0.885	0.53
		MCS8	0.127	0.144	0.883	0.54
		MCS9	0.120	0.137	0.876	0.57
		MCS10	0.117	0.135	0.864	0.64
		MCS11	0.107	0.129	0.833	0.79

802.11ax(HE80)

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (HE80)	26	MCS0	5.088	5.106	0.996	0.02
		MCS1	5.075	5.094	0.996	0.02
		MCS2	3.891	3.909	0.995	0.02
		MCS3	2.934	2.951	0.994	0.03
		MCS4	1.984	2.001	0.991	0.04
		MCS5	1.505	1.520	0.990	0.04
		MCS6	1.348	1.365	0.987	0.06
		MCS7	1.224	1.239	0.988	0.05
		MCS8	1.026	1.044	0.983	0.07
		MCS9	0.937	0.953	0.984	0.07
	52	MCS0	5.073	5.092	0.996	0.02
		MCS1	2.936	2.951	0.995	0.02
		MCS2	1.986	2.001	0.992	0.03
		MCS3	1.502	1.520	0.988	0.05
		MCS4	1.029	1.044	0.985	0.06
		MCS5	0.788	0.806	0.978	0.10
		MCS6	0.714	0.733	0.975	0.11
		MCS7	0.651	0.669	0.973	0.12
		MCS8	0.517	0.570	0.907	0.43
		MCS9	0.471	0.522	0.903	0.44
	106	MCS0	2.769	2.784	0.995	0.02
		MCS1	1.421	1.436	0.989	0.05
		MCS2	0.973	0.988	0.985	0.07
		MCS3	0.747	0.763	0.980	0.09
		MCS4	0.524	0.542	0.967	0.14
		MCS5	0.413	0.428	0.964	0.16
		MCS6	0.377	0.393	0.961	0.17
		MCS7	0.347	0.365	0.951	0.22
		MCS8	0.294	0.334	0.879	0.56
		MCS9	0.281	0.334	0.842	0.75
	242	MCS0	1.246	1.264	0.986	0.06
		MCS1	0.659	0.676	0.974	0.12
		MCS2	0.471	0.481	0.979	0.09

Mode	Tone (T)	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS3	0.370	0.385	0.961	0.17
		MCS4	0.270	0.285	0.947	0.24
		MCS5	0.219	0.236	0.930	0.32
		MCS6	0.203	0.217	0.933	0.30
		MCS7	0.192	0.208	0.925	0.34
		MCS8	0.174	0.190	0.913	0.39
		MCS9	0.163	0.178	0.919	0.37
		MCS10	0.155	0.172	0.904	0.44
		MCS11	0.145	0.161	0.898	0.47
	484	MCS0	0.661	0.676	0.978	0.10
		MCS1	0.367	0.385	0.954	0.20
		MCS2	0.265	0.283	0.934	0.30
		MCS3	0.219	0.236	0.930	0.32
		MCS4	0.175	0.193	0.908	0.42
		MCS5	0.147	0.163	0.900	0.46
		MCS6	0.145	0.162	0.895	0.48
		MCS7	0.132	0.149	0.885	0.53
		MCS8	0.127	0.145	0.875	0.58
		MCS9	0.119	0.137	0.870	0.60
		MCS10	0.115	0.133	0.864	0.63
		MCS11	0.107	0.125	0.855	0.68
	996	MCS0	0.357	0.372	0.959	0.18
		MCS1	0.215	0.231	0.934	0.30
		MCS2	0.172	0.187	0.919	0.37
		MCS3	0.141	0.160	0.881	0.55
		MCS4	0.124	0.141	0.879	0.56
		MCS5	0.106	0.124	0.857	0.67
		MCS6	0.107	0.124	0.863	0.64
		MCS7	0.106	0.125	0.853	0.69
		MCS8	0.099	0.117	0.845	0.73
		MCS9	0.098	0.117	0.837	0.77
		MCS10	0.095	0.114	0.832	0.80
		MCS11	0.094	0.114	0.826	0.83

Mode	BW	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
802.11ax (SU)	BW 20	MCS0	5.435	5.468	0.994	0.03
		MCS1	5.435	5.468	0.994	0.03
		MCS2	5.435	5.468	0.994	0.03
		MCS3	5.435	5.468	0.994	0.03
		MCS4	5.435	5.468	0.994	0.03
		MCS5	5.435	5.468	0.994	0.03
		MCS6	5.435	5.468	0.994	0.03
		MCS7	5.435	5.468	0.994	0.03
		MCS8	5.435	5.468	0.994	0.03
		MCS9	5.435	5.468	0.994	0.03
		MCS10	5.435	5.468	0.994	0.03
		MCS11	5.435	5.468	0.994	0.03
	BW 40	MCS0	5.435	5.468	0.994	0.03
		MCS1	5.435	5.468	0.994	0.03
		MCS2	5.435	5.468	0.994	0.03
		MCS3	5.435	5.468	0.994	0.03
		MCS4	5.435	5.468	0.994	0.03
		MCS5	5.435	5.468	0.994	0.03
		MCS6	5.435	5.468	0.994	0.03
		MCS7	5.435	5.468	0.994	0.03
		MCS8	5.435	5.468	0.994	0.03
		MCS9	5.435	5.468	0.994	0.03
		MCS10	5.435	5.468	0.994	0.03
		MCS11	5.435	5.468	0.994	0.03
	BW 80	MCS0	5.435	5.468	0.994	0.03
		MCS1	5.435	5.468	0.994	0.03
		MCS2	5.435	5.468	0.994	0.03
		MCS3	5.435	5.468	0.994	0.03
		MCS4	5.435	5.468	0.994	0.03
		MCS5	5.435	5.468	0.994	0.03
		MCS6	5.435	5.468	0.994	0.03
		MCS7	5.435	5.468	0.994	0.03
		MCS8	5.435	5.468	0.994	0.03
		MCS9	5.435	5.468	0.994	0.03

Mode	BW	Data Rate	On Time (ms)	Total Time (ms)	Duty Cycle	Duty Cycle Factor (dB)
		MCS10	5.435	5.468	0.994	0.03
		MCS11	5.435	5.468	0.994	0.03

10.2 26 dB BANDWIDTH

Straddle channel data in the table below are for reporting purposes only.

Straddle channel data were added in section 10.6.1.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	20.56	20.93	21.34	-	-
			Mid	18.71	19.21	-	22.39	22.34
			High	20.48	20.38	21.83	-	-
	5200	40	Low	20.61	20.64	25.69	-	-
			Mid	18.71	18.82	-	22.11	30.82
			High	20.66	20.71	25.69	-	-
	5240	48	Low	20.51	20.94	22.80	-	-
			Mid	18.82	19.17	-	22.26	22.42
			High	20.58	20.42	22.16	-	-
UNII 2A	5260	52	Low	20.71	20.82	21.34	-	-
			Mid	18.87	19.19	-	22.66	22.25
			High	20.60	20.40	20.86	-	-
	5280	56	Low	20.54	21.10	21.46	-	-
			Mid	18.71	19.30	-	23.35	23.37
			High	20.55	20.34	20.98	-	-
	5320	64	Low	20.46	20.86	21.33	-	-
			Mid	18.83	18.71	-	22.45	22.33
			High	20.60	20.45	20.84	-	-
UNII 2C	5500	100	Low	20.44	20.87	21.19	-	-
			Mid	18.50	19.39	-	22.36	22.40
			High	20.55	20.32	20.99	-	-
	5600	120	Low	20.11	20.86	21.31	-	-
			Mid	18.78	19.28	-	26.37	22.31
			High	20.32	20.11	21.00	-	-
	5720	144	Low	20.41	21.12	21.35	-	-
			Mid	18.69	19.32	-	27.61	24.70
			High	20.59	20.45	20.99	-	-
UNII 3	5745	149	Low	20.38	20.81	21.27	-	-
			Mid	18.62	19.23	-	22.37	22.40

HE20	Frequency [MHz]	Channel No.	RU Index	26 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
			High	20.38	20.73	20.97	-	-
	5785	157	Low	20.55	20.41	21.50	-	-
			Mid	18.65	19.10	-	22.71	22.82
			High	20.60	20.34	21.12	-	-
	5825	165	Low	20.70	21.03	21.28	-	-
			Mid	18.50	19.04	-	22.37	22.45
			High	20.68	20.46	20.97	-	-

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	26 dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	40.32	40.68	40.72	41.65	-	-
			Mid	38.14	38.25	38.66	-	43.91	44.07
			High	40.19	40.48	41.35	42.25	-	-
	5230	46	Low	40.34	40.65	41.03	71.20	-	-
			Mid	38.21	38.28	44.30	-	76.20	76.34
			High	40.39	41.45	41.20	60.43	-	-
UNII 2A	5270	54	Low	40.30	40.74	40.82	50.86	-	-
			Mid	38.15	38.38	38.83	-	44.10	54.88
			High	40.33	40.76	41.06	50.84	-	-
	5310	62	Low	40.46	40.88	40.96	41.97	-	-
			Mid	38.12	38.33	38.65	-	43.75	43.62
			High	40.23	40.70	41.03	43.01	-	-
UNII 2C	5510	102	Low	40.25	40.76	40.99	41.68	-	-
			Mid	38.24	38.31	38.73	-	43.72	43.77
			High	40.48	40.54	41.68	42.28	-	-
	5590	118	Low	40.22	40.47	40.91	50.79	-	-
			Mid	38.04	38.23	38.77	-	44.30	54.87
			High	40.53	40.62	40.97	43.84	-	-
	5710	142	Low	40.21	40.74	41.04	42.28	-	-
			Mid	38.24	38.40	38.61	-	50.83	49.06
			High	40.34	40.66	44.40	43.49	-	-
UNII 3	5755	151	Low	40.38	40.41	40.84	41.83	-	-
			Mid	38.13	38.22	38.73	-	43.95	48.01
			High	40.08	40.81	41.10	42.59	-	-
	5795	159	Low	40.25	40.89	41.06	60.24	-	-
			Mid	38.05	38.25	38.83	-	68.36	63.03
			High	40.47	40.72	41.28	61.59	-	-

802.11ax(HE80)

HE80	Freq. [MHz]	Channel No.	RU Index	26 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	81.76	82.81	82.61	83.78	85.30	-	-
			Mid	78.24	78.50	79.16	82.67	-	90.28	89.42
			High	80.97	82.76	82.89	83.96	84.48	-	-
UNII 2A	5290	58	Low	81.92	83.15	82.41	84.18	84.94	-	-
			Mid	78.41	78.61	78.84	82.18	-	88.96	89.21
			High	81.21	82.55	82.16	83.79	84.22	-	-
UNII 2C	5530	106	Low	81.70	83.67	82.53	83.98	84.73	-	-
			Mid	78.22	78.52	79.55	82.41	-	89.33	90.33
			High	81.98	82.13	81.57	84.28	84.61	-	-
	5610	122	Low	81.80	82.35	82.20	95.10	100.8	-	-
			Mid	78.23	78.47	79.14	92.14	-	116.7	116.8
			High	81.37	82.31	81.70	98.89	101.7	-	-
	5690	138	Low	81.88	83.41	82.98	84.22	84.07	-	-
			Mid	78.24	78.37	79.24	81.97	-	108.5	110.8
			High	81.26	82.55	82.38	84.40	84.74	-	-
UNII 3	5775	155	Low	82.34	83.40	83.51	83.94	84.43	-	-
			Mid	78.09	78.65	79.09	81.99	-	105.7	101.7
			High	81.32	82.63	82.58	85.32	84.71	-	-

10.3 6 dB BANDWIDTH

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)				
				26 T	52 T	106 T	242 T	SU
UNII 3	5745	149	Low	2.102	17.09	17.73	-	-
			Mid	2.694	15.12	-	19.05	19.10
			High	2.126	15.84	17.17	-	-
	5785	157	Low	2.141	17.07	17.16	-	-
			Mid	2.723	13.87	-	19.05	19.05
			High	2.141	15.85	17.17	-	-
	5825	165	Low	2.158	17.12	17.69	-	-
			Mid	2.704	15.12	-	19.04	19.05
			High	2.140	17.11	17.16	-	-

Limit : > 0.5 MHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	6 dB BW(MHz)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 3	5755	151	Low	2.157	4.204	36.60	37.36	-	-
			Mid	2.147	4.183	35.11	-	38.24	38.24
			High	2.171	4.206	36.65	37.43	-	-
	5795	159	Low	2.147	4.202	30.37	36.81	-	-
			Mid	2.171	4.139	35.14	-	38.23	38.22
			High	2.191	4.208	36.65	37.48	-	-

Limit : > 0.5 MHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	6 dB BW (MHz)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 3	5775	155	Low	2.244	4.343	8.437	76.74	76.96	-	-
			Mid	2.834	4.284	8.421	75.21	-	77.99	78.06
			High	2.227	4.297	8.454	76.84	77.03	-	-

Limit : > 0.5 MHz

10.4 OUTPUT POWER MEASUREMENT

10.4.1 Power Level Setting

802.11ax(HE20)		Frequency [MHz]	Channel No.	26 T	52 T	106 T	242 T	SU
UNII 1	Low	5180	36	12	12	12	12	12
	Mid	5200	40	11.5	13	12.5	13.5	13.5
	High	5240	48	12	13	13	14	14
UNII 2A	Low	5260	52	12	13	13	14	14
	Mid	5280	56	12	13	13	14	14
	High	5320	64	12	12	12	12	12
UNII 2C	Low	5500	100	12	12	12	12	12
	Mid	5600	120	12	13	13	14	14
	High	5720	144	12	13	13	14	14
UNII 3	Low	5745	149	12.5	13.5	13	14	14
	Mid	5785	157	11.5	13	13	14	14
	High	5825	165	12.5	13.5	13	14	14

802.11ax(HE40)		Frequency [MHz]	Channel No.	26 T	52 T	106 T	242 T	484 T	SU
UNII 1	Low	5190	38	12	12	12	12	12	12
	High	5230	46	12	13	13	14	14	14
UNII 2A	Low	5270	54	12	13	13	13	13	13
	High	5310	62	10	9.5	9.5	9.5	10	10
UNII 2C	Low	5510	102	10	10	10	10	10	10
	Mid	5590	118	12	13	13	14	14	14
	High	5710	142	12	13	13	14	14	14
UNII 3	Low	5755	151	12.5	13	13	14	14	14
	High	5795	159	11.5	12.5	12.5	14	14	13.5

802.11ax(HE80)		Frequency [MHz]	Channel No.	26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	Mid	5210	42	11.5	11.5	8.5	9	9	9	9
UNII 2A	Mid	5290	58	10	10	10	10	9	9	9
UNII 2C	Low	5530	106	9	9	8	8	8	8	8
	Mid	5610	122	12	13	13	14	14	14	14
	High	5690	138	12	13	13	14	14	14	14
UNII 3	Mid	5775	155	12	13.5	13	14	14	14	14

Straddle channel data in the table below are for reporting purposes only.

Straddle channel data were added in section 10.6.3.

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Power (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	12.35	12.34	12.39	-	-
			Mid	11.99	12.15	-	12.28	12.25
			High	12.29	12.30	12.30	-	-
	5200	40	Low	12.93	13.93	13.71	-	-
			Mid	12.87	13.84	-	14.58	14.65
			High	12.98	13.84	13.61	-	-
	5240	48	Low	11.98	12.81	12.85	-	-
			Mid	11.77	12.62	-	13.86	13.80
			High	12.01	12.68	12.80	-	-
UNII 2A	5260	52	Low	12.07	12.91	13.03	-	-
			Mid	11.74	12.73	-	13.97	13.86
			High	12.04	12.86	12.98	-	-
	5280	56	Low	12.69	13.54	13.56	-	-
			Mid	12.36	13.31	-	14.63	14.53
			High	12.62	13.43	13.49	-	-
	5320	64	Low	12.76	12.63	12.64	-	-
			Mid	12.30	12.40	-	12.59	12.51
			High	12.59	12.44	12.54	-	-
UNII 2C	5500	100	Low	11.97	11.80	11.86	-	-
			Mid	11.51	11.59	-	11.74	11.69
			High	11.76	11.72	11.76	-	-

HE20	Frequency [MHz]	Channel No.	RU Index	Power (dBm)				
				26 T	52 T	106 T	242 T	SU
	5600	120	Low	11.89	13.00	12.98	-	-
			Mid	11.44	12.77	-	13.87	13.81
			High	11.89	12.83	12.89	-	-
	5720	144	Low	12.08	12.95	12.95	-	-
			Mid	11.59	12.74	-	13.79	13.65
			High	11.85	12.66	12.75	-	-
UNII 3	5745	149	Low	11.22	12.41	11.60	-	-
			Mid	10.82	11.98	-	12.67	12.55
			High	11.31	12.10	11.54	-	-
	5785	157	Low	12.52	13.91	13.91	-	-
			Mid	12.09	13.78	-	14.71	14.60
			High	12.41	13.71	13.75	-	-
	5825	165	Low	11.29	11.86	11.70	-	-
			Mid	10.89	11.99	-	12.64	12.58
			High	11.29	11.97	11.56	-	-

Limit

(UNII 1) : 23.98 dBm

(UNII 2A, 2C) : 23.98 dBm or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)

(UNII 3) : 30.00 dBm

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Power (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	12.66	12.75	12.80	12.62	-	-
			Mid	12.37	12.55	12.49	-	12.45	12.71
			High	12.52	12.54	12.48	12.47	-	-
	5230	46	Low	12.81	13.96	13.85	14.74	-	-
			Mid	12.71	13.86	13.97	-	14.94	14.75
			High	12.83	13.94	13.91	14.91	-	-
UNII 2a	5270	54	Low	12.47	13.44	13.41	13.29	-	-
			Mid	12.18	13.21	13.24	-	13.21	13.55
			High	12.36	13.35	13.29	13.21	-	-
	5310	62	Low	10.98	10.80	10.78	10.58	-	-
			Mid	10.94	10.78	10.61	-	10.94	10.88
			High	10.98	10.54	10.56	10.60	-	-
UNII 2c	5510	102	Low	9.84	9.89	9.80	9.78	-	-
			Mid	9.50	9.59	9.63	-	9.48	9.86
			High	9.49	9.66	9.50	9.55	-	-
	5590	118	Low	11.67	12.98	12.79	13.60	-	-
			Mid	11.33	12.65	12.61	-	13.40	13.82
			High	11.39	12.65	12.58	13.43	-	-
	5710	142	Low	12.39	13.54	13.51	14.29	-	-
			Mid	11.94	13.16	13.32	-	14.03	14.43
			High	11.90	13.14	13.19	14.10	-	-
UNII 3	5755	151	Low	11.26	11.87	11.83	12.82	-	-
			Mid	10.87	11.56	11.66	-	12.60	12.99
			High	10.95	11.57	11.54	12.62	-	-
	5795	159	Low	12.41	13.93	13.88	14.70	-	-
			Mid	11.93	13.65	13.80	-	14.76	14.79
			High	11.93	13.61	13.60	14.30	-	-

Limit

(UNII 1) : 23.98 dBm

(UNII 2A, 2C) : 23.98 dBm or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)

(UNII 3) : 30.00 dBm

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Power (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	12.18	12.40	9.56	9.69	9.67	-	-
			Mid	12.33	12.53	9.68	9.71	-	9.78	9.62
			High	12.83	12.79	9.86	9.87	9.96	-	-
UNII 2a	5290	58	Low	9.96	10.22	10.49	10.07	9.26	-	-
			Mid	10.26	10.61	10.79	10.25	-	9.40	9.25
			High	10.72	10.98	10.82	10.64	9.60	-	-
UNII 2c	5530	106	Low	9.09	9.35	8.66	8.13	8.02	-	-
			Mid	8.72	8.91	8.30	7.93	-	7.92	7.76
			High	8.58	8.77	8.24	7.84	7.81	-	-
	5610	122	Low	11.73	13.10	13.37	13.82	13.81	-	-
			Mid	11.53	12.91	13.19	13.67	-	13.90	13.72
			High	11.97	13.25	13.41	13.84	13.87	-	-
	5690	138	Low	11.08	12.20	12.50	13.27	13.30	-	-
			Mid	10.95	12.09	12.32	13.17	-	13.24	13.09
			High	10.77	11.87	12.11	12.86	13.13	-	-
UNII 3	5775	155	Low	11.67	12.61	12.77	13.02	12.98	-	-
			Mid	11.39	12.44	12.55	12.92	-	12.73	12.70
			High	10.88	11.91	11.93	12.62	12.60	-	-

Limit

(UNII 1) : 23.98 dBm

(UNII 2A, 2C) : 23.98 dBm or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)

(UNII 3) : 30.00 dBm

10.5 POWER SPECTRAL DENSITY

802.11ax(HE20)

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
UNII 1	5180	36	Low	9.666	6.733	3.791	-	-
			Mid	8.247	6.654	-	0.319	0.334
			High	9.492	6.815	3.679	-	-
	5200	40	Low	10.161	8.575	5.181	-	-
			Mid	8.823	8.377	-	2.493	2.457
			High	9.735	8.358	4.938	-	-
	5240	48	Low	9.400	7.388	4.576	-	-
			Mid	8.069	7.124	-	2.174	2.107
			High	9.348	7.314	4.350	-	-
UNII 2A	5260	52	Low	9.482	7.518	4.718	-	-
			Mid	8.126	7.372	-	2.134	2.030
			High	9.526	7.583	4.620	-	-
	5280	56	Low	10.115	8.156	5.196	-	-
			Mid	8.794	7.870	-	3.026	2.668
			High	9.955	7.932	5.155	-	-
	5320	64	Low	10.181	7.211	4.264	-	-
			Mid	8.515	7.016	-	0.841	0.845
			High	10.010	7.039	4.254	-	-
UNII 2C	5500	100	Low	9.512	6.295	3.462	-	-
			Mid	7.759	6.105	-	-0.151	-0.258
			High	9.118	6.419	3.274	-	-
	5600	120	Low	9.734	7.746	4.859	-	-
			Mid	8.031	7.438	-	2.227	2.136
			High	9.235	7.416	4.622	-	-
	5720	144	Low	9.691	7.778	4.830	-	-
			Mid	8.179	7.493	-	2.212	2.275
			High	9.445	7.485	4.796	-	-
UNII 3	5745	149	Low	6.396	4.168	0.867	-	-
			Mid	5.441	3.887	-	-1.700	-1.510
			High	5.958	4.089	0.551	-	-
	5785	157	Low	7.507	5.899	3.107	-	-
			Mid	6.374	5.676	-	0.429	0.587

HE20	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)				
				26 T	52 T	106 T	242 T	SU
			High	6.936	5.579	2.989	-	-
	5825	165	Low	6.267	3.940	0.734	-	-
			Mid	5.441	3.722	-	-1.803	-1.744
			High	5.785	3.745	0.625	-	-

Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz

Limit(UNII 3) : 30.0 dBm/500 kHz

802.11ax(HE40)

HE40	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)					
				26 T	52 T	106 T	242 T	484 T	SU
UNII 1	5190	38	Low	9.802	7.320	4.225	0.483	-	-
			Mid	9.541	6.983	3.941	-	-2.182	-2.476
			High	9.601	7.095	3.905	0.358	-	-
	5230	46	Low	10.174	8.528	5.678	2.878	-	-
			Mid	9.734	8.397	5.251	-	0.158	0.179
			High	10.273	8.305	5.465	2.856	-	-
UNII 2A	5270	54	Low	9.756	7.915	4.813	1.335	-	-
			Mid	9.363	7.654	4.793	-	-1.528	-1.646
			High	9.621	7.757	4.840	1.103	-	-
	5310	62	Low	8.674	5.420	2.287	-1.458	-	-
			Mid	8.195	4.840	1.973	-	-3.707	-3.754
			High	8.372	4.808	1.871	-1.703	-	-
UNII 2C	5510	102	Low	7.078	4.672	1.494	-2.292	-	-
			Mid	6.881	3.984	1.076	-	-5.208	-5.108
			High	6.822	4.132	1.108	-2.581	-	-
	5590	118	Low	8.956	7.442	4.350	1.711	-	-
			Mid	8.780	7.372	4.433	-	-1.122	-1.233
			High	8.667	7.302	4.163	1.465	-	-
	5710	142	Low	9.841	8.065	5.179	2.515	-	-
			Mid	9.500	7.923	4.943	-	-0.367	-0.372
			High	9.363	7.901	4.833	2.447	-	-
UNII 3	5755	151	Low	6.465	3.496	0.746	-1.580	-	-
			Mid	5.748	3.152	0.584	-	-4.495	-4.518
			High	5.760	3.225	0.200	-1.790	-	-
	5795	159	Low	7.176	5.670	2.692	0.303	-	-
			Mid	6.811	5.410	2.428	-	-2.457	-2.495
			High	6.765	5.188	2.360	-0.020	-	-

Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz

Limit(UNII 3) : 30.0 dBm/500 kHz

802.11ax(HE80)

HE80	Frequency [MHz]	Channel No.	RU Index	Total PSD (dBm)						
				26 T	52 T	106 T	242 T	484 T	996 T	SU
UNII 1	5210	42	Low	9.405	6.606	0.577	-2.590	-5.496	-	-
			Mid	8.516	6.737	0.714	-2.501	-	-8.071	-8.314
			High	9.976	7.245	1.061	-2.169	-5.146	-	-
UNII 2A	5290	58	Low	6.986	4.258	1.426	-2.130	-5.791	-	-
			Mid	6.417	4.567	1.808	-2.009	-	-8.478	-8.563
			High	8.368	5.064	1.944	-1.492	-5.519	-	-
UNII 2C	5530	106	Low	6.189	3.609	-0.391	-4.043	-7.004	-	-
			Mid	4.962	3.430	-0.377	-4.126	-	-9.651	-10.201
			High	5.699	3.033	-0.691	-4.269	-7.285	-	-
	5610	122	Low	8.832	7.255	4.252	1.599	-1.358	-	-
			Mid	7.681	7.126	4.032	1.405	-	-4.138	-4.309
			High	8.847	7.505	4.546	1.734	-1.168	-	-
	5690	138	Low	7.781	6.272	3.320	0.791	-1.798	-	-
			Mid	6.590	6.098	3.357	0.757	-	-4.829	-4.822
			High	7.854	6.174	3.080	0.602	-2.100	-	-
UNII 3	5775	155	Low	5.666	3.770	0.656	-1.965	-5.095	-	-
			Mid	5.233	3.685	0.572	-2.374	-	-8.035	-7.986
			High	5.225	3.369	0.367	-2.462	-5.274	-	-

Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz

Limit(UNII 3) : 30.0 dBm/500 kHz

10.6 STRADDLE CHANNEL

10.6.1 26 dB Bandwidth

Test Note:

1. [UNII 2C] 26 dB Bandwidth = 5725 MHz **-** Measured Frequency[MHz]
2. [UNII 3] 26 dB Bandwidth = Measured Frequency[MHz] -5725 MHz
3. # : 26 dB bandwidth is only located in UNII 2C. Therefore 26 dB bandwidth do not overlap.

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	16.12	4.40
				4	14.12	4.44
				7	14.24	4.36
				8	14.12	6.12
			52 T	37	16.20	4.76
				38	14.56	4.60
				39	14.60	4.72
				40	14.60	5.88
			106 T	53	17.28	5.04
				54	14.96	6.04
			242 T	61	16.24	6.16
			SU	-	18.80	6.84

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	34.28	4.04
				16	34.12	4.76
				17	34.20	6.36
			52 T	# 37	-	-
				41	34.20	4.12
				43	34.20	4.04
				44	34.20	6.68
			106 T	# 53	-	-
				# 54	-	-
				55	34.68	4.20
				56	34.52	6.52
			242 T	# 61	-	-
				62	36.92	6.36
			484 T	65	41.00	6.92
			SU	-	43.80	7.00

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	26 dB BW (MHz)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	74.04	6.12
				36	74.20	7.40
			52 T	# 37	-	-
				# 45	-	-
				51	74.36	4.68
				52	74.52	9.32
			106 T	# 53	-	-
				# 57	-	-
				59	74.68	4.84
				60	74.68	7.56
			242 T	# 61	-	-
				# 62	-	-
				63	76.12	6.12
				64	76.28	8.20
			484 T	# 65	-	-
				66	75.80	8.36
			996 T	67	97.24	9.32
			SU	-	96.60	9.16

10.6.2 6 dB Bandwidth

Test Note:

1. 6 dB Bandwidth = Measured Frequency[MHz] – 5725 MHz
2. # : 6 dB bandwidth is only located in UNII 2C. Therefore 6 dB bandwidth do not overlap.
3. Limit : > 0.5 MHz

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE20	5720	144	26 T	# 0	-
				# 4	-
				7	2.52
				8	4.52
			52 T	# 37	-
				# 38	-
				39	2.56
				40	4.52
			106 T	# 53	-
				54	4.56
			242 T	61	4.48
			SU	-	4.52

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE40	5710	142	26 T	# 0	-
				# 9	-
				16	2.04
				17	4.12
			52 T	# 37	-
				# 41	-
				# 43	-
				44	4.04
			106 T	# 53	-
				# 54	-
				# 55	-
				56	4.04
			242 T	# 61	-
				62	4.20
			484 T	65	4.04
			SU	-	4.04

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	6 dB BW (MHz)
					UNII 3
HE80	5690	138	26 T	# 0	-
				# 18	-
				35	2.12
				36	4.20
			52 T	# 37	-
				# 45	-
				# 51	-
				52	4.20
			106 T	# 53	-
				# 57	-
				# 59	-
				60	4.20
			242 T	# 61	-
				# 62	-
				# 63	-
				64	4.20
			484 T	# 65	-
				66	4.36
			996 T	67	4.20
			SU	-	3.88

10.6.3 Output Power

Test Note:

1. # : 26 dB bandwidth is only located in UNII 2C. Therefore 26 dB bandwidth do not overlap.
2. Limit(2C) : 23.98 dBm or 11 dBm + 10 log B, (where B is the 26 dB emission bandwidth in megahertz.)
3. Limit(UNII 3) : 30.00 dBm

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	12.06	-15.97
				4	11.57	-16.44
				7	-4.00	11.71
				8	-9.46	11.87
			52 T	37	12.93	-14.62
				38	12.67	-15.70
				39	12.16	2.37
				40	-5.32	12.67
			106 T	53	12.93	-13.56
				54	9.33	10.25
			242 T	61	12.58	7.69
			SU	-	12.69	7.77

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	11.64	-18.84
				16	2.05	11.41
				17	-9.72	11.88
			52 T	# 37	-	-
				41	12.86	-19.47
				43	12.98	-3.71
				44	0.78	12.87
			106 T	# 53	-	-
				# 54	-	-
				55	13.11	-16.44
				56	10.40	10.06
			242 T	# 61	-	-
				62	12.67	7.25
			484 T	65	13.69	4.54
			SU	-	13.59	4.42

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	Total Power (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	3.15	10.51
				36	-10.97	11.00
			52 T	# 37	-	-
				# 45	-	-
				51	11.24	-4.94
				52	-0.84	11.68
			106 T	# 53	-	-
				# 57	-	-
				59	11.42	-20.41
				60	8.59	8.69
			242 T	# 61	-	-
				# 62	-	-
				63	12.90	-14.85
				64	11.74	6.43
			484 T	# 65	-	-
				66	12.35	3.30
			996 T	67	12.31	0.32
			SU	-	12.16	0.15

10.6.4 Power Spectral Density

Test Note:

1. # : 26 dB bandwidth is only located in UNII 2C. Therefore 26 dB bandwidth do not overlap.
2. Limit(UNII 1, 2A, 2C) : 11.0 dBm/MHz
3. Limit(UNII 3) : 30.0 dBm/500 kHz

802.11ax(HE20)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE20	5720	144	26 T	0	9.536	-19.791
				4	8.248	-18.418
				7	0.700	6.494
				8	-14.815	6.462
			52 T	37	7.352	-19.576
				38	7.314	-15.725
				39	7.154	3.573
				40	-1.260	4.552
			106 T	53	4.733	-18.244
				54	4.182	1.551
			242 T	61	1.818	-1.046
			SU	-	2.252	-0.885

802.11ax(HE40)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE40	5710	142	26 T	# 0	-	-
				9	8.851	-30.324
				16	5.787	5.945
				17	-18.975	6.135
			52 T	# 37	-	-
				41	7.353	-22.999
				43	7.500	-6.982
				44	4.534	4.756
			106 T	# 53	-	-
				# 54	-	-
				55	4.593	-22.416
				56	4.575	1.629
			242 T	# 61	-	-
				62	1.572	-1.143
			484 T	65	-0.489	-4.082
			SU	-	-0.719	-3.517

802.11ax(HE80)

BW	Frequency [MHz]	Channel No.	Tone	RU Index	PSD (dBm)	
					UNII 2C	UNII 3
HE80	5690	138	26 T	# 0	-	-
				# 18	-	-
				35	3.873	4.809
				36	-21.981	4.973
			52 T	# 37	-	-
				# 45	-	-
				51	5.743	-10.116
				52	2.002	2.762
			106 T	# 53	-	-
				# 57	-	-
				59	2.904	-29.156
				60	2.864	-0.188
			242 T	# 61	-	-
				# 62	-	-
				63	0.906	-22.752
				64	0.662	-2.607
			484 T	# 65	-	-
				66	-2.211	-5.352
			996 T	67	-5.149	-8.387
			SU	-	-5.371	-8.788

10.7 RADIATED SPURIOUS EMISSIONS (9 kHz – 1 GHz)

Frequency Range : 9 kHz – 30MHz

Frequency	Measured Level	A.F+C.L+D.F	Ant. POL	Total	Limit	Margin
[MHz]	[dBμV/m]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]
No Critical peaks found						

Note:

1. The measured level 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 = 40log (specific distance / test distance) (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

Frequency	Measured Level	A.F+C.L	Ant. POL	Total	Limit	Margin
[MHz]	[dBμV/m]	[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

10.8 RADIATED SPURIOUS EMISSIONS (Above 1 GHz)

10.8.1 802.11ax(HE20)

1) 26 Tone RU 4

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10360	49.12	8.05	V	57.17	68.20	11.03	PK
15540	39.98	12.94	V	52.92	73.98	21.06	PK
15540	26.48	12.94	V	39.42	53.98	14.56	AV
10360	49.86	8.05	H	57.91	68.20	10.29	PK
15540	40.40	12.94	H	53.34	73.98	20.64	PK
15540	26.54	12.94	H	39.48	53.98	14.50	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10400	49.42	8.21	V	57.63	68.20	10.57	PK
15600	39.52	13.31	V	52.83	73.98	21.15	PK
15600	25.87	13.31	V	39.18	53.98	14.80	AV
10400	49.55	8.21	H	57.76	68.20	10.44	PK
15600	40.12	13.31	H	53.43	73.98	20.55	PK
15600	25.99	13.31	H	39.30	53.98	14.68	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10480	47.66	8.55	V	56.21	68.20	11.99	PK
15720	39.12	13.22	V	52.34	73.98	21.64	PK
15720	25.58	13.22	V	38.80	53.98	15.18	AV
10480	48.01	8.55	H	56.56	68.20	11.64	PK
15720	39.35	13.22	H	52.57	73.98	21.41	PK
15720	25.70	13.22	H	38.92	53.98	15.06	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10520	45.44	8.95	V	54.39	68.20	13.81	PK
15780	39.95	13.89	V	53.84	73.98	20.14	PK
15780	26.37	13.89	V	40.26	53.98	13.72	AV
10520	46.21	8.95	H	55.16	68.20	13.04	PK
15780	40.31	13.89	H	54.20	73.98	19.78	PK
15780	26.68	13.89	H	40.57	53.98	13.41	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10600	43.36	9.57	V	52.93	73.98	21.05	PK
10600	28.82	9.57	V	38.39	53.98	15.59	AV
15900	40.95	13.31	V	54.26	73.98	19.72	PK
15900	27.19	13.31	V	40.50	53.98	13.48	AV
10600	44.04	9.57	H	53.61	73.98	20.37	PK
10600	29.41	9.57	H	38.98	53.98	15.00	AV
15900	41.25	13.31	H	54.56	73.98	19.42	PK
15900	27.21	13.31	H	40.52	53.98	13.46	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10640	43.21	9.71	V	52.92	73.98	21.06	PK
10640	28.46	9.71	V	38.17	53.98	15.81	AV
15960	40.92	12.93	V	53.85	73.98	20.13	PK
15960	26.78	12.93	V	39.71	53.98	14.27	AV
10640	43.83	9.71	H	53.54	73.98	20.44	PK
10640	28.88	9.71	H	38.59	53.98	15.39	AV
15960	41.15	12.93	H	54.08	73.98	19.90	PK
15960	26.90	12.93	H	39.83	53.98	14.15	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11000	41.48	9.69	V	51.17	73.98	22.81	PK
11000	27.83	9.69	V	37.52	53.98	16.46	AV
16500	41.23	12.08	V	53.31	68.20	14.89	PK
11000	41.88	9.69	H	51.57	73.98	22.41	PK
11000	27.91	9.69	H	37.60	53.98	16.38	AV
16500	40.72	12.08	H	52.80	68.20	15.40	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11200	41.85	10.27	V	52.12	73.98	21.86	PK
11200	27.98	10.27	V	38.25	53.98	15.73	AV
16800	40.68	11.78	V	52.46	68.20	15.74	PK
11200	42.56	10.27	H	52.83	73.98	21.15	PK
11200	28.08	10.27	H	38.35	53.98	15.63	AV
16800	41.05	11.78	H	52.83	68.20	15.37	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11440	40.85	10.57	V	51.42	73.98	22.56	PK
11440	27.36	10.57	V	37.93	53.98	16.05	AV
17160	40.34	12.01	V	52.35	68.20	15.85	PK
11440	41.09	10.57	H	51.66	73.98	22.32	PK
11440	27.45	10.57	H	38.02	53.98	15.96	AV
17160	40.77	12.01	H	52.78	68.20	15.42	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	41.60	10.49	V	52.09	73.98	21.89	PK
11490	27.90	10.49	V	38.39	53.98	15.59	AV
17235	39.87	12.22	V	52.09	68.20	16.11	PK
11490	41.88	10.49	H	52.37	73.98	21.61	PK
11490	28.11	10.49	H	38.60	53.98	15.38	AV
17235	40.96	12.22	H	53.18	68.20	15.02	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	41.50	9.92	V	51.42	73.98	22.56	PK
11570	27.96	9.92	V	37.88	53.98	16.10	AV
17355	40.15	13.11	V	53.26	68.20	14.94	PK
11570	41.67	9.92	H	51.59	73.98	22.39	PK
11570	28.06	9.92	H	37.98	53.98	16.00	AV
17355	40.22	13.11	H	53.33	68.20	14.87	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	41.56	9.60	V	51.16	73.98	22.82	PK
11650	28.05	9.60	V	37.65	53.98	16.33	AV
17475	40.35	14.27	V	54.62	68.20	13.58	PK
11650	42.01	9.60	H	51.61	73.98	22.37	PK
11650	28.29	9.60	H	37.89	53.98	16.09	AV
17475	40.28	14.27	H	54.55	68.20	13.65	PK

2) 242 Tone RU 61

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10360	44.03	8.05	V	52.08	68.20	16.12	PK
15540	39.68	12.94	V	52.62	73.98	21.36	PK
15540	26.28	12.94	V	39.22	53.98	14.76	AV
10360	44.42	8.05	H	52.47	68.20	15.73	PK
15540	40.50	12.94	H	53.44	73.98	20.54	PK
15540	26.34	12.94	H	39.28	53.98	14.70	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5200 MHz
Channel No.	40 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10400	45.68	8.21	V	53.89	68.20	14.31	PK
15600	39.47	13.31	V	52.78	73.98	21.20	PK
15600	25.72	13.31	V	39.03	53.98	14.95	AV
10400	45.90	8.21	H	54.11	68.20	14.09	PK
15600	39.68	13.31	H	52.99	73.98	20.99	PK
15600	25.90	13.31	H	39.21	53.98	14.77	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5240 MHz
Channel No.	48 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10480	43.24	8.55	V	51.79	68.20	16.41	PK
15720	39.62	13.22	V	52.84	73.98	21.14	PK
15720	25.42	13.22	V	38.64	53.98	15.34	AV
10480	43.66	8.55	H	52.21	68.20	15.99	PK
15720	39.75	13.22	H	52.97	73.98	21.01	PK
15720	25.68	13.22	H	38.90	53.98	15.08	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5260 MHz
Channel No.	52 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10520	42.88	8.95	V	51.83	68.20	16.37	PK
15780	40.44	13.89	V	54.33	73.98	19.65	PK
15780	26.28	13.89	V	40.17	53.98	13.81	AV
10520	43.39	8.95	H	52.34	68.20	15.86	PK
15780	40.56	13.89	H	54.45	73.98	19.53	PK
15780	26.45	13.89	H	40.34	53.98	13.64	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10600	41.93	9.57	V	51.50	73.98	22.48	PK
10600	28.75	9.57	V	38.32	53.98	15.66	AV
15900	40.42	13.31	V	53.73	73.98	20.25	PK
15900	26.89	13.31	V	40.20	53.98	13.78	AV
10600	42.46	9.57	H	52.03	73.98	21.95	PK
10600	28.83	9.57	H	38.40	53.98	15.58	AV
15900	40.75	13.31	H	54.06	73.98	19.92	PK
15900	27.06	13.31	H	40.37	53.98	13.61	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
10640	41.87	9.71	V	51.58	73.98	22.40	PK
10640	28.12	9.71	V	37.83	53.98	16.15	AV
15960	40.55	12.93	V	53.48	73.98	20.50	PK
15960	25.56	12.93	V	38.49	53.98	15.49	AV
10640	42.03	9.71	H	51.74	73.98	22.24	PK
10640	28.33	9.71	H	38.04	53.98	15.94	AV
15960	40.76	12.93	H	53.69	73.98	20.29	PK
15960	25.69	12.93	H	38.62	53.98	15.36	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11000	41.34	9.69	V	51.03	73.98	22.95	PK
11000	27.87	9.69	V	37.56	53.98	16.42	AV
16500	41.67	12.08	V	53.75	68.20	14.45	PK
11000	41.82	9.69	H	51.51	73.98	22.47	PK
11000	28.02	9.69	H	37.71	53.98	16.27	AV
16500	41.26	12.08	H	53.34	68.20	14.86	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5600 MHz
Channel No.	120 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11200	41.36	10.27	V	51.63	73.98	22.35	PK
11200	28.01	10.27	V	38.28	53.98	15.70	AV
16800	40.84	11.78	V	52.62	68.20	15.58	PK
11200	41.64	10.27	H	51.91	73.98	22.07	PK
11200	28.09	10.27	H	38.36	53.98	15.62	AV
16800	41.07	11.78	H	52.85	68.20	15.35	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5720 MHz
Channel No.	144 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11440	41.02	10.57	V	51.59	73.98	22.39	PK
11440	27.32	10.57	V	37.89	53.98	16.09	AV
17160	40.31	12.01	V	52.32	68.20	15.88	PK
11440	41.32	10.57	H	51.89	73.98	22.09	PK
11440	27.50	10.57	H	38.07	53.98	15.91	AV
17160	40.70	12.01	H	52.71	68.20	15.49	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5745 MHz
Channel No.	149 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11490	41.28	10.49	V	51.77	73.98	22.21	PK
11490	27.83	10.49	V	38.32	53.98	15.66	AV
17235	40.24	12.22	V	52.46	68.20	15.74	PK
11490	41.69	10.49	H	52.18	73.98	21.80	PK
11490	27.92	10.49	H	38.41	53.98	15.57	AV
17235	40.72	12.22	H	52.94	68.20	15.26	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5785 MHz
Channel No.	157 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11570	41.62	9.92	V	51.54	73.98	22.44	PK
11570	27.62	9.92	V	37.54	53.98	16.44	AV
17355	40.13	13.11	V	53.24	68.20	14.96	PK
11570	41.81	9.92	H	51.73	73.98	22.25	PK
11570	27.87	9.92	H	37.79	53.98	16.19	AV
17355	40.64	13.11	H	53.75	68.20	14.45	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE20)
Transfer MCS Index:	MCS0
Operating Frequency	5825 MHz
Channel No.	165 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11650	41.64	9.60	V	51.24	73.98	22.74	PK
11650	27.83	9.60	V	37.43	53.98	16.55	AV
17475	40.20	14.27	V	54.47	68.20	13.73	PK
11650	41.91	9.60	H	51.51	73.98	22.47	PK
11650	28.03	9.60	H	37.63	53.98	16.35	AV
17475	40.04	14.27	H	54.31	68.20	13.89	PK

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Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10380	51.20	8.19	V	59.39	68.20	8.81	PK
15570	39.32	13.31	V	52.63	73.98	21.35	PK
15570	26.74	13.31	V	40.05	53.98	13.93	AV
10380	51.86	8.19	H	60.05	68.20	8.15	PK
15570	40.22	13.31	H	53.53	73.98	20.45	PK
15570	26.76	13.31	H	40.07	53.98	13.91	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10460	49.53	8.47	V	58.00	68.20	10.20	PK
15690	38.76	13.28	V	52.04	73.98	21.94	PK
15690	26.44	13.28	V	39.72	53.98	14.26	AV
10460	50.03	8.47	H	58.50	68.20	9.70	PK
15690	39.25	13.28	H	52.53	73.98	21.45	PK
15690	26.75	13.28	H	40.03	53.98	13.95	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10540	43.16	8.96	V	52.12	68.20	16.08	PK
15810	40.56	13.42	V	53.98	73.98	20.00	PK
15810	27.56	13.42	V	40.98	53.98	13.00	AV
10540	42.11	8.96	H	51.07	68.20	17.13	PK
15810	40.53	13.42	H	53.95	73.98	20.03	PK
15810	26.81	13.42	H	40.23	53.98	13.75	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10620	42.81	9.64	V	52.45	73.98	21.53	PK
10620	29.17	9.64	V	38.81	53.98	15.17	AV
15930	41.01	12.85	V	53.86	73.98	20.12	PK
15930	27.57	12.85	V	40.42	53.98	13.56	AV
10620	41.56	9.64	H	51.20	73.98	22.78	PK
10620	28.71	9.64	H	38.35	53.98	15.63	AV
15 930	40.01	12.85	H	52.86	73.98	21.12	PK
15 930	27.32	12.85	H	40.17	53.98	13.81	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11020	40.71	9.60	V	50.31	73.98	23.67	PK
11020	28.05	9.60	V	37.65	53.98	16.33	AV
16530	40.23	12.02	V	52.25	68.20	15.95	PK
11020	41.56	9.60	H	51.16	73.98	22.82	PK
11020	28.74	9.60	H	38.34	53.98	15.64	AV
16530	41.01	12.02	H	53.03	68.20	15.17	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11180	40.93	10.18	V	51.11	73.98	22.87	PK
11180	28.65	10.18	V	38.83	53.98	15.15	AV
16770	40.55	11.62	V	52.17	68.20	16.03	PK
11180	41.32	10.18	H	51.50	73.98	22.48	PK
11180	28.79	10.18	H	38.97	53.98	15.01	AV
16770	40.64	11.62	H	52.26	68.20	15.94	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11420	41.13	10.53	V	51.66	73.98	22.32	PK
11420	28.10	10.53	V	38.63	53.98	15.35	AV
17130	39.38	11.60	V	50.98	68.20	17.22	PK
11420	41.76	10.53	H	52.29	73.98	21.69	PK
11420	28.21	10.53	H	38.74	53.98	15.24	AV
17130	40.70	11.60	H	52.30	68.20	15.90	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11510	41.98	10.34	V	52.32	73.98	21.66	PK
11510	29.03	10.34	V	39.37	53.98	14.61	AV
17265	40.66	12.43	V	53.09	68.20	15.11	PK
11510	40.75	10.34	H	51.09	73.98	22.89	PK
11510	28.92	10.34	H	39.26	53.98	14.72	AV
17265	39.83	12.43	H	52.26	68.20	15.94	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11590	42.02	9.75	V	51.77	73.98	22.21	PK
11590	28.87	9.75	V	38.62	53.98	15.36	AV
17385	40.02	13.20	V	53.22	68.20	14.98	PK
11590	41.58	9.75	H	51.33	73.98	22.65	PK
11590	28.68	9.75	H	38.43	53.98	15.55	AV
17385	39.62	13.20	H	52.82	68.20	15.38	PK

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Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10380	42.25	8.19	V	50.44	68.20	17.76	PK
15570	39.35	13.31	V	52.66	73.98	21.32	PK
15570	26.76	13.31	V	40.07	53.98	13.91	AV
10380	44.08	8.19	H	52.27	68.20	15.93	PK
15570	39.59	13.31	H	52.90	73.98	21.08	PK
15570	27.04	13.31	H	40.35	53.98	13.63	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10460	43.87	8.47	V	52.34	68.20	15.86	PK
15690	38.95	13.28	V	52.23	73.98	21.75	PK
15690	26.16	13.28	V	39.44	53.98	14.54	AV
10460	44.23	8.47	H	52.70	68.20	15.50	PK
15690	39.49	13.28	H	52.77	73.98	21.21	PK
15690	26.35	13.28	H	39.63	53.98	14.35	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10540	44.02	8.96	V	52.98	68.20	15.22	PK
15810	40.52	13.42	V	53.94	73.98	20.04	PK
15810	27.62	13.42	V	41.04	53.98	12.94	AV
10540	42.36	8.96	H	51.32	68.20	16.88	PK
15810	40.35	13.42	H	53.77	73.98	20.21	PK
15810	27.54	13.42	H	40.96	53.98	13.02	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10620	42.28	9.64	V	51.92	73.98	22.06	PK
10620	28.95	9.64	V	38.59	53.98	15.39	AV
15930	40.78	12.85	V	53.63	73.98	20.35	PK
15930	27.83	12.85	V	40.68	53.98	13.30	AV
10620	41.89	9.64	H	51.53	73.98	22.45	PK
10620	28.79	9.64	H	38.43	53.98	15.55	AV
15930	40.07	12.85	H	52.92	73.98	21.06	PK
15930	27.49	12.85	H	40.34	53.98	13.64	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11020	40.74	9.60	V	50.34	73.98	23.64	PK
11020	28.42	9.60	V	38.02	53.98	15.96	AV
16530	40.55	12.02	V	52.57	68.20	15.63	PK
11020	41.65	9.60	H	51.25	73.98	22.73	PK
11020	28.72	9.60	H	38.32	53.98	15.66	AV
16530	41.39	12.02	H	53.41	68.20	14.79	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11180	40.58	10.18	V	50.76	73.98	23.22	PK
11180	28.33	10.18	V	38.51	53.98	15.47	AV
16770	41.06	11.62	V	52.68	68.20	15.52	PK
11180	41.93	10.18	H	52.11	73.98	21.87	PK
11180	28.79	10.18	H	38.97	53.98	15.01	AV
16770	41.30	11.62	H	52.92	68.20	15.28	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11420	40.68	10.53	V	51.21	73.98	22.77	PK
11420	27.77	10.53	V	38.30	53.98	15.68	AV
17130	39.52	11.60	V	51.12	68.20	17.08	PK
11420	41.21	10.53	H	51.74	73.98	22.24	PK
11420	28.29	10.53	H	38.82	53.98	15.16	AV
17130	40.85	11.60	H	52.45	68.20	15.75	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5755 MHz
Channel No.	151 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11510	42.58	10.34	V	52.92	73.98	21.06	PK
11510	28.98	10.34	V	39.32	53.98	14.66	AV
17265	40.95	12.43	V	53.38	68.20	14.82	PK
11510	41.27	10.34	H	51.61	73.98	22.37	PK
11510	28.76	10.34	H	39.10	53.98	14.88	AV
17265	40.41	12.43	H	52.84	68.20	15.36	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5795 MHz
Channel No.	159 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11590	42.41	9.75	V	52.16	73.98	21.82	PK
11590	28.91	9.75	V	38.66	53.98	15.32	AV
17385	40.74	13.20	V	53.94	68.20	14.26	PK
11590	41.25	9.75	H	51.00	73.98	22.98	PK
11590	28.55	9.75	H	38.30	53.98	15.68	AV
17385	39.86	13.20	H	53.06	68.20	15.14	PK

10.8.3 802.11ax(HE80)

1) 26 Tone RU 18

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10420	46.72	8.31	V	55.03	68.20	13.17	PK
15630	39.05	13.20	V	52.25	73.98	21.73	PK
15630	26.19	13.20	V	39.39	53.98	14.59	AV
10420	47.83	8.31	H	56.14	68.20	12.06	PK
15630	39.55	13.20	H	52.75	73.98	21.23	PK
15630	26.34	13.20	H	39.54	53.98	14.44	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10580	43.03	9.39	V	52.42	68.20	15.78	PK
15870	40.41	13.57	V	53.98	73.98	20.00	PK
15870	27.61	13.57	V	41.18	53.98	12.80	AV
10580	44.08	9.39	H	53.47	68.20	14.73	PK
15870	41.01	13.57	H	54.58	73.98	19.40	PK
15870	27.76	13.57	H	41.33	53.98	12.65	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11060	42.48	9.89	V	52.37	73.98	21.61	PK
11060	28.87	9.89	V	38.76	53.98	15.22	AV
16590	40.92	11.76	V	52.68	68.20	15.52	PK
11060	41.16	9.89	H	51.05	73.98	22.93	PK
11060	28.72	9.89	H	38.61	53.98	15.37	AV
16590	40.29	11.76	H	52.05	68.20	16.15	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Measured Level [dBμV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
11220	42.34	10.21	V	52.55	73.98	21.43	PK
11220	29.05	10.21	V	39.26	53.98	14.72	AV
16830	41.46	11.80	V	53.26	68.20	14.94	PK
11220	41.87	10.21	H	52.08	73.98	21.90	PK
11220	29.01	10.21	H	39.22	53.98	14.76	AV
16830	40.59	11.80	H	52.39	68.20	15.81	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11380	41.22	10.42	V	51.64	73.98	22.34	PK
11380	28.54	10.42	V	38.96	53.98	15.02	AV
17070	40.38	11.74	V	52.12	68.20	16.08	PK
11380	41.04	10.42	H	51.46	73.98	22.52	PK
11380	28.49	10.42	H	38.91	53.98	15.07	AV
17070	40.27	11.74	H	52.01	68.20	16.19	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11550	41.38	9.98	V	51.36	73.98	22.62	PK
11550	28.44	9.98	V	38.42	53.98	15.56	AV
17325	39.55	12.90	V	52.45	68.20	15.75	PK
11550	42.41	9.98	H	52.39	73.98	21.59	PK
11550	28.61	9.98	H	38.59	53.98	15.39	AV
17325	39.96	12.90	H	52.86	68.20	15.34	PK

2) 996 Tone RU 67

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10420	43.37	8.31	V	51.68	68.20	16.52	PK
15630	38.92	13.20	V	52.12	73.98	21.86	PK
15630	26.20	13.20	V	39.40	53.98	14.58	AV
10420	44.04	8.31	H	52.35	68.20	15.85	PK
15630	39.68	13.20	H	52.88	73.98	21.10	PK
15630	26.30	13.20	H	39.50	53.98	14.48	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
10580	42.31	9.39	V	51.70	68.20	16.50	PK
15870	40.51	13.57	V	54.08	73.98	19.90	PK
15870	27.64	13.57	V	41.21	53.98	12.77	AV
10580	42.82	9.39	H	52.21	68.20	15.99	PK
15870	40.91	13.57	H	54.48	73.98	19.50	PK
15870	28.02	13.57	H	41.59	53.98	12.39	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11060	42.15	9.89	V	52.04	73.98	21.94	PK
11060	29.01	9.89	V	38.90	53.98	15.08	AV
16590	40.88	11.76	V	52.64	68.20	15.56	PK
11060	41.59	9.89	H	51.48	73.98	22.50	PK
11060	28.83	9.89	H	38.72	53.98	15.26	AV
16590	40.06	11.76	H	51.82	68.20	16.38	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11220	42.30	10.21	V	52.51	73.98	21.47	PK
11220	29.05	10.21	V	39.26	53.98	14.72	AV
16830	41.01	11.80	V	52.81	68.20	15.39	PK
11220	41.05	10.21	H	51.26	73.98	22.72	PK
11220	28.66	10.21	H	38.87	53.98	15.11	AV
16830	40.35	11.80	H	52.15	68.20	16.05	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11380	41.19	10.42	V	51.61	73.98	22.37	PK
11380	28.71	10.42	V	39.13	53.98	14.85	AV
17070	41.34	11.74	V	53.08	68.20	15.12	PK
11380	41.05	10.42	H	51.47	73.98	22.51	PK
11380	28.57	10.42	H	38.99	53.98	14.99	AV
17070	40.54	11.74	H	52.28	68.20	15.92	PK

Band :	UNII 3
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5775 MHz
Channel No.	155 Ch

Frequency [MHz]	Measured Level [dBµV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
11550	40.35	9.98	V	50.33	73.98	23.65	PK
11550	27.03	9.98	V	37.01	53.98	16.97	AV
17325	40.26	12.90	V	53.16	68.20	15.04	PK
11550	40.43	9.98	H	50.41	73.98	23.57	PK
11550	27.29	9.98	H	37.27	53.98	16.71	AV
17325	40.33	12.90	H	53.23	68.20	14.97	PK

Note:

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

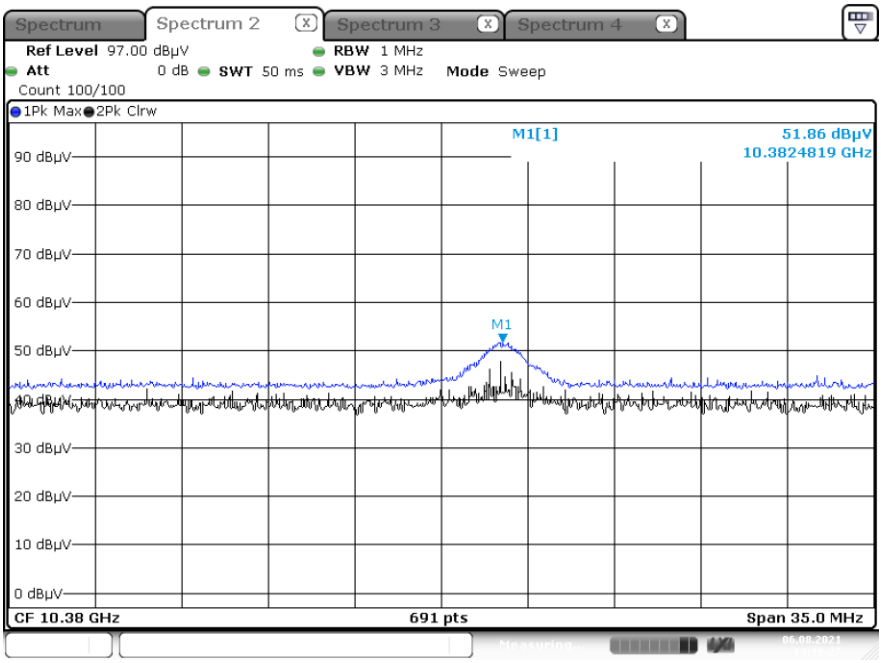
In order to simplify the report, We only have attached RSE result of worst case.

[Worst Case]

- UNII 1, 2A, 2C, 3
- HE20 : Worst case(Highest Power) & Additional Tone : 242 Tone RU 61, 26 Tone RU 4
- HE40 : Worst case(Highest Power) & Additional Tone : 484 Tone RU 65, 26 Tone RU 9
- HE80 : Worst case(Highest Power) & Additional Tone : 996 Tone RU 67, 26 Tone RU 18

▣ Test Plots(26 Tone RU 9)

Peak result (802.11ax(HE40), Ch.38 2nd Harmonic, Y-H)



Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

1) 802.11ax(HE20)

1.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	49.97	9.11	H	59.08	73.98	14.90	PK
5150	32.30	9.11	H	41.41	53.98	12.57	AV
5150	49.58	9.11	V	58.69	73.98	15.29	PK
5150	32.19	9.11	V	41.30	53.98	12.68	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch
RU offset.	8

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F.. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	60.72	8.71	H	69.43	73.98	4.55	PK
5350	33.16	8.71	H	41.87	53.98	12.11	AV
5350	60.91	8.71	V	69.62	73.98	4.36	PK
5350	33.38	8.71	V	42.09	53.98	11.89	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	8

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F.. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	60.18	8.71	H	68.89	73.98	5.09	PK
5350	32.96	8.71	H	41.67	53.98	12.31	AV
5350	60.34	8.71	V	69.05	73.98	4.93	PK
5350	33.14	8.71	V	41.85	53.98	12.13	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	50.67	9.30	H	59.97	73.98	14.01	PK
5460	33.38	9.30	H	42.68	53.98	11.30	AV
5470	53.39	9.34	H	62.73	68.20	5.47	PK
5460	49.63	9.30	V	58.93	73.98	15.05	PK
5460	33.12	9.30	V	42.42	53.98	11.56	AV
5470	52.56	9.34	V	61.90	68.20	6.30	PK

1.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBμV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5150	49.49	9.11	H	58.60	73.98	15.38	PK
5150	32.35	9.11	H	41.46	53.98	12.52	AV
5150	49.35	9.11	V	58.46	73.98	15.52	PK
5150	32.27	9.11	V	41.38	53.98	12.60	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch
RU offset.	40

Frequency [MHz]	Measured Level [dBμV]	AN.+CL-AMP +ATT.+D.F.. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5350	53.71	8.71	H	62.42	73.98	11.56	PK
5350	33.03	8.71	H	41.74	53.98	12.24	AV
5350	53.98	8.71	V	62.69	73.98	11.29	PK
5350	33.19	8.71	V	41.90	53.98	12.08	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	40

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	60.04	8.71	H	68.75	73.98	5.23	PK
5350	32.98	8.71	H	41.69	53.98	12.29	AV
5350	60.25	8.71	V	68.96	73.98	5.02	PK
5350	33.15	8.71	V	41.86	53.98	12.12	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	50.04	9.30	H	59.34	73.98	14.64	PK
5460	33.12	9.30	H	42.42	53.98	11.56	AV
5470	53.01	9.34	H	62.35	68.20	5.85	PK
5460	49.58	9.30	V	58.88	73.98	15.10	PK
5460	33.07	9.30	V	42.37	53.98	11.61	AV
5470	52.28	9.34	V	61.62	68.20	6.58	PK

1.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	58.07	9.11	H	67.18	73.98	6.80	PK
5150	31.84	9.11	H	40.95	53.98	13.03	AV
5150	57.82	9.11	V	66.93	73.98	7.05	PK
5150	31.66	9.11	V	40.77	53.98	13.21	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch
RU offset.	54

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F.. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	55.86	8.71	H	64.57	73.98	9.41	PK
5350	32.24	8.71	H	40.95	53.98	13.03	AV
5350	56.03	8.71	V	64.74	73.98	9.24	PK
5350	32.48	8.71	V	41.19	53.98	12.79	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	54

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	57.52	8.71	H	66.23	73.98	7.75	PK
5350	32.31	8.71	H	41.02	53.98	12.96	AV
5350	57.61	8.71	V	66.32	73.98	7.66	PK
5350	32.44	8.71	V	41.15	53.98	12.83	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	48.57	9.30	H	57.87	73.98	16.11	PK
5460	31.64	9.30	H	40.94	53.98	13.04	AV
5470	49.94	9.34	H	59.28	68.20	8.92	PK
5460	47.90	9.30	V	57.20	73.98	16.78	PK
5460	31.55	9.30	V	40.85	53.98	13.13	AV
5470	49.15	9.34	V	58.49	68.20	9.71	PK

1.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5180 MHz
Channel No.	36 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	61.30	9.11	H	70.41	73.98	3.57	PK
5150	35.44	9.11	H	44.55	53.98	9.43	AV
5150	60.89	9.11	V	70.00	73.98	3.98	PK
5150	35.23	9.11	V	44.34	53.98	9.64	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5200 MHz
Channel No.	40 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	57.12	9.11	H	66.23	73.98	7.75	PK
5150	34.53	9.11	H	43.64	53.98	10.34	AV
5150	57.27	9.11	V	66.38	73.98	7.60	PK
5150	34.74	9.11	V	43.85	53.98	10.13	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5300 MHz
Channel No.	60 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F.. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	61.67	8.71	H	70.38	73.98	3.60	PK
5350	34.20	8.71	H	42.91	53.98	11.07	AV
5350	61.86	8.71	V	70.57	73.98	3.41	PK
5350	34.36	8.71	V	43.07	53.98	10.91	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5320 MHz
Channel No.	64 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	61.01	8.71	H	69.72	73.98	4.26	PK
5350	37.84	8.71	H	46.55	53.98	7.43	AV
5350	61.21	8.71	V	69.92	73.98	4.06	PK
5350	37.96	8.71	V	46.67	53.98	7.31	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	100 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.92	9.30	H	57.22	73.98	16.76	PK
5460	32.42	9.30	H	41.72	53.98	12.26	AV
5470	53.22	9.34	H	62.56	68.20	5.64	PK
5460	47.89	9.30	V	57.19	73.98	16.79	PK
5460	32.36	9.30	V	41.66	53.98	12.32	AV
5470	52.71	9.34	V	62.05	68.20	6.15	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE20)
Transfer Rate:	MCS0
Operating Frequency	5500 MHz
Channel No.	104 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	50.12	9.30	H	59.42	73.98	14.56	PK
5460	31.39	9.30	H	40.69	53.98	13.29	AV
5470	55.18	9.34	H	64.52	68.20	3.68	PK
5460	49.76	9.30	V	59.06	73.98	14.92	PK
5460	30.29	9.30	V	39.59	53.98	14.39	AV
5470	54.98	9.34	V	64.32	68.20	3.88	PK

2) 802.11ax(HE40)

2.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.84	9.11	H	65.95	73.98	8.03	PK
5150	35.70	9.11	H	44.81	53.98	9.17	AV
5150	53.49	9.11	V	62.60	73.98	11.38	PK
5150	34.87	9.11	V	43.98	53.98	10.00	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch
RU offset.	17

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	50.75	8.71	H	59.46	73.98	14.52	PK
5350	35.58	8.71	H	44.29	53.98	9.69	AV
5350	50.16	8.71	V	58.87	73.98	15.11	PK
5350	34.29	8.71	V	43.00	53.98	10.98	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	17

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	51.24	8.71	H	59.95	73.98	14.03	PK
5350	33.91	8.71	H	42.62	53.98	11.36	AV
5350	52.78	8.71	V	61.49	73.98	12.49	PK
5350	34.33	8.71	V	43.04	53.98	10.94	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	54.35	9.30	H	63.65	73.98	10.33	PK
5460	36.97	9.30	H	46.27	53.98	7.71	AV
5470	54.21	9.34	H	63.55	68.20	4.65	PK
5460	54.99	9.30	V	64.29	73.98	9.69	PK
5460	37.27	9.30	V	46.57	53.98	7.41	AV
5470	54.63	9.34	V	63.97	68.20	4.23	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5550 MHz
Channel No.	110 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	49.67	9.30	H	58.97	73.98	15.01	PK
5460	34.16	9.30	H	43.46	53.98	10.52	AV
5470	48.73	9.34	H	58.07	68.20	10.13	PK
5460	50.07	9.30	V	59.37	73.98	14.61	PK
5460	34.48	9.30	V	43.78	53.98	10.20	AV
5470	49.19	9.34	V	58.53	68.20	9.67	PK

2.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	57.98	9.11	H	67.09	73.98	6.89	PK
5150	35.72	9.11	H	44.83	53.98	9.15	AV
5150	56.93	9.11	V	66.04	73.98	7.94	PK
5150	34.99	9.11	V	44.10	53.98	9.88	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	46.34	9.11	H	55.45	73.98	18.53	PK
5150	32.82	9.11	H	41.93	53.98	12.05	AV
5150	45.96	9.11	V	55.07	73.98	18.91	PK
5150	32.66	9.11	V	41.77	53.98	12.21	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch
RU offset.	44

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	56.54	8.71	H	65.25	73.98	8.73	PK
5350	35.11	8.71	H	43.82	53.98	10.16	AV
5350	55.95	8.71	V	64.66	73.98	9.32	PK
5350	34.96	8.71	V	43.67	53.98	10.31	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	44

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	54.81	8.71	H	63.52	73.98	10.46	PK
5350	34.49	8.71	H	43.20	53.98	10.78	AV
5350	56.18	8.71	V	64.89	73.98	9.09	PK
5350	35.12	8.71	V	43.83	53.98	10.15	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	55.84	9.30	H	65.14	73.98	8.84	PK
5460	36.34	9.30	H	45.64	53.98	8.34	AV
5470	55.12	9.34	H	64.46	68.20	3.74	PK
5460	56.21	9.30	V	65.51	73.98	8.47	PK
5460	36.92	9.30	V	46.22	53.98	7.76	AV
5470	55.43	9.34	V	64.77	68.20	3.43	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5550 MHz
Channel No.	110 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.62	9.30	H	56.92	73.98	17.06	PK
5460	33.98	9.30	H	43.28	53.98	10.70	AV
5470	47.63	9.34	H	56.97	68.20	11.23	PK
5460	48.34	9.30	V	57.64	73.98	16.34	PK
5460	34.15	9.30	V	43.45	53.98	10.53	AV
5470	48.69	9.34	V	58.03	68.20	10.17	PK

2.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.57	9.11	H	65.68	73.98	8.30	PK
5150	34.94	9.11	H	44.05	53.98	9.93	AV
5150	55.55	9.11	V	64.66	73.98	9.32	PK
5150	34.54	9.11	V	43.65	53.98	10.33	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	53.97	9.11	H	63.08	73.98	10.90	PK
5150	32.33	9.11	H	41.44	53.98	12.54	AV
5150	53.73	9.11	V	62.84	73.98	11.14	PK
5150	32.25	9.11	V	41.36	53.98	12.62	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch
RU offset.	56

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	54.97	8.71	H	63.68	73.98	10.30	PK
5350	33.54	8.71	H	42.25	53.98	11.73	AV
5350	54.25	8.71	V	62.96	73.98	11.02	PK
5350	33.47	8.71	V	42.18	53.98	11.80	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	56

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	56.19	8.71	H	64.90	73.98	9.08	PK
5350	33.93	8.71	H	42.64	53.98	11.34	AV
5350	57.73	8.71	V	66.44	73.98	7.54	PK
5350	34.56	8.71	V	43.27	53.98	10.71	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBμV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	46.32	9.30	H	55.62	73.98	18.36	PK
5460	31.11	9.30	H	40.41	53.98	13.57	AV
5470	47.99	9.34	H	57.33	68.20	10.87	PK
5460	48.41	9.30	V	57.71	73.98	16.27	PK
5460	31.47	9.30	V	40.77	53.98	13.21	AV
5470	48.99	9.34	V	58.33	68.20	9.87	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5550 MHz
Channel No.	110 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBμV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
5460	47.02	9.30	H	56.32	73.98	17.66	PK
5460	32.38	9.30	H	41.68	53.98	12.30	AV
5470	48.07	9.34	H	57.41	68.20	10.79	PK
5460	48.79	9.30	V	58.09	73.98	15.89	PK
5460	32.46	9.30	V	41.76	53.98	12.22	AV
5470	48.28	9.34	V	57.62	68.20	10.58	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	49.18	9.30	H	58.48	73.98	15.50	PK
5460	31.92	9.30	H	41.22	53.98	12.76	AV
5470	48.13	9.34	H	57.47	68.20	10.73	PK
5460	50.15	9.30	V	59.45	73.98	14.53	PK
5460	32.18	9.30	V	41.48	53.98	12.50	AV
5470	49.91	9.34	V	59.25	68.20	8.95	PK

2.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.55	9.11	H	65.66	73.98	8.32	PK
5150	35.87	9.11	H	44.98	53.98	9.00	AV
5150	55.67	9.11	V	64.78	73.98	9.20	PK
5150	35.06	9.11	V	44.17	53.98	9.81	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	57.54	9.11	H	66.65	73.98	7.33	PK
5150	34.19	9.11	H	43.30	53.98	10.68	AV
5150	55.95	9.11	V	65.06	73.98	8.92	PK
5150	34.04	9.11	V	43.15	53.98	10.83	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch
RU offset.	62

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	54.23	8.71	H	62.94	73.98	11.04	PK
5350	33.11	8.71	H	41.82	53.98	12.16	AV
5350	51.95	8.71	V	60.66	73.98	13.32	PK
5350	32.49	8.71	V	41.20	53.98	12.78	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	62

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	56.94	8.71	H	65.65	73.98	8.33	PK
5350	34.56	8.71	H	43.27	53.98	10.71	AV
5350	57.48	8.71	V	66.19	73.98	7.79	PK
5350	34.94	8.71	V	43.65	53.98	10.33	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.80	9.30	H	56.10	73.98	17.88	PK
5460	31.99	9.30	H	41.29	53.98	12.69	AV
5470	50.89	9.34	H	60.23	68.20	7.97	PK
5460	47.19	9.30	V	56.49	73.98	17.49	PK
5460	32.39	9.30	V	41.69	53.98	12.29	AV
5470	51.00	9.34	V	60.34	68.20	7.86	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5550 MHz
Channel No.	110 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	45.38	9.30	H	54.68	73.98	19.30	PK
5460	32.43	9.30	H	41.73	53.98	12.25	AV
5470	47.42	9.34	H	56.76	68.20	11.44	PK
5460	46.50	9.30	V	55.80	73.98	18.18	PK
5460	33.62	9.30	V	42.92	53.98	11.06	AV
5470	48.12	9.34	V	57.46	68.20	10.74	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.45	9.30	H	56.75	73.98	17.23	PK
5460	31.92	9.30	H	41.22	53.98	12.76	AV
5470	48.63	9.34	H	57.97	68.20	10.23	PK
5460	48.92	9.30	V	58.22	73.98	15.76	PK
5460	32.05	9.30	V	41.35	53.98	12.63	AV
5470	49.27	9.34	V	58.61	68.20	9.59	PK

2.5) 484 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5190 MHz
Channel No.	38 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	56.95	9.11	H	66.06	73.98	7.92	PK
5150	38.73	9.11	H	47.84	53.98	6.14	AV
5150	55.68	9.11	V	64.79	73.98	9.19	PK
5150	38.23	9.11	V	47.34	53.98	6.64	AV

Band :	UNII 1
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5230 MHz
Channel No.	46 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	57.41	9.11	H	66.52	73.98	7.46	PK
5150	35.69	9.11	H	44.80	53.98	9.18	AV
5150	56.48	9.11	V	65.59	73.98	8.39	PK
5150	34.76	9.11	V	43.87	53.98	10.11	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5270 MHz
Channel No.	54 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	52.40	8.71	H	61.11	73.98	12.87	PK
5350	35.12	8.71	H	43.83	53.98	10.15	AV
5350	51.36	8.71	V	60.07	73.98	13.91	PK
5350	34.55	8.71	V	43.26	53.98	10.72	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5310 MHz
Channel No.	62 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	60.99	8.71	H	69.70	73.98	4.28	PK
5350	38.22	8.71	H	46.93	53.98	7.05	AV
5350	61.19	8.71	V	69.90	73.98	4.08	PK
5350	39.29	8.71	V	48.00	53.98	5.98	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5510 MHz
Channel No.	102 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	46.27	9.30	H	55.57	73.98	18.41	PK
5460	33.01	9.30	H	42.31	53.98	11.67	AV
5470	48.98	9.34	H	58.32	68.20	9.88	PK
5460	46.78	9.30	V	56.08	73.98	17.90	PK
5460	33.38	9.30	V	42.68	53.98	11.30	AV
5470	49.49	9.34	V	58.83	68.20	9.37	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5550 MHz
Channel No.	110 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	47.34	9.30	H	56.64	73.98	17.34	PK
5460	32.59	9.30	H	41.89	53.98	12.09	AV
5470	48.28	9.34	H	57.62	68.20	10.58	PK
5460	47.93	9.30	V	57.23	73.98	16.75	PK
5460	33.04	9.30	V	42.34	53.98	11.64	AV
5470	48.73	9.34	V	58.07	68.20	10.13	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE40)
Transfer MCS Index:	MCS0
Operating Frequency	5590 MHz
Channel No.	118 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	45.76	9.30	H	55.06	73.98	18.92	PK
5460	32.01	9.30	H	41.31	53.98	12.67	AV
5470	47.49	9.34	H	56.83	68.20	11.37	PK
5460	46.08	9.30	V	55.38	73.98	18.60	PK
5460	32.33	9.30	V	41.63	53.98	12.35	AV
5470	48.38	9.34	V	57.72	68.20	10.48	PK

3) 802.11ax(HE80)

3.1) 26 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	60.17	9.11	H	69.28	73.98	4.70	PK
5150	38.41	9.11	H	47.52	53.98	6.46	AV
5150	59.89	9.11	V	69.00	73.98	4.98	PK
5150	38.22	9.11	V	47.33	53.98	6.65	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	36

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	56.96	8.71	H	65.67	73.98	8.31	PK
5350	36.35	8.71	H	45.06	53.98	8.92	AV
5350	57.24	8.71	V	65.95	73.98	8.03	PK
5350	36.57	8.71	V	45.28	53.98	8.70	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	50.51	9.30	H	59.81	73.98	14.17	PK
5460	34.33	9.30	H	43.63	53.98	10.35	AV
5470	52.45	9.34	H	61.79	68.20	6.41	PK
5460	50.28	9.30	V	59.58	73.98	14.40	PK
5460	34.10	9.30	V	43.40	53.98	10.58	AV
5470	52.24	9.34	V	61.58	68.20	6.62	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch
RU offset.	0

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	53.84	9.30	H	63.14	73.98	10.84	PK
5460	33.72	9.30	H	43.02	53.98	10.96	AV
5470	50.54	9.34	H	59.88	68.20	8.32	PK
5460	53.62	9.30	V	62.92	73.98	11.06	PK
5460	33.53	9.30	V	42.83	53.98	11.15	AV
5470	50.38	9.34	V	59.72	68.20	8.48	PK

3.2) 52 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	59.84	9.11	H	68.95	73.98	5.03	PK
5150	38.08	9.11	H	47.19	53.98	6.79	AV
5150	59.67	9.11	V	68.78	73.98	5.20	PK
5150	37.74	9.11	V	46.85	53.98	7.13	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	52

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	61.28	8.71	H	69.99	73.98	3.99	PK
5350	38.10	8.71	H	46.81	53.98	7.17	AV
5350	61.51	8.71	V	70.22	73.98	3.76	PK
5350	38.37	8.71	V	47.08	53.98	6.90	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	49.25	9.30	H	58.55	73.98	15.43	PK
5460	34.44	9.30	H	43.74	53.98	10.24	AV
5470	51.71	9.34	H	61.05	68.20	7.15	PK
5460	48.87	9.30	V	58.17	73.98	15.81	PK
5460	34.12	9.30	V	43.42	53.98	10.56	AV
5470	51.43	9.34	V	60.77	68.20	7.43	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch
RU offset.	37

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	50.08	9.30	H	59.38	73.98	14.60	PK
5460	33.14	9.30	H	42.44	53.98	11.54	AV
5470	48.75	9.34	H	58.09	68.20	10.11	PK
5460	49.82	9.30	V	59.12	73.98	14.86	PK
5460	32.90	9.30	V	42.20	53.98	11.78	AV
5470	48.63	9.34	V	57.97	68.20	10.23	PK

3.3) 106 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	59.20	9.11	H	68.31	73.98	5.67	PK
5150	34.84	9.11	H	43.95	53.98	10.03	AV
5150	58.99	9.11	V	68.10	73.98	5.88	PK
5150	34.67	9.11	V	43.78	53.98	10.20	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	60

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	57.28	8.71	H	65.99	73.98	7.99	PK
5350	36.24	8.71	H	44.95	53.98	9.03	AV
5350	57.44	8.71	V	66.15	73.98	7.83	PK
5350	36.46	8.71	V	45.17	53.98	8.81	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	50.54	9.30	H	59.84	73.98	14.14	PK
5460	34.28	9.30	H	43.58	53.98	10.40	AV
5470	54.16	9.34	H	63.50	68.20	4.70	PK
5460	50.23	9.30	V	59.53	73.98	14.45	PK
5460	34.06	9.30	V	43.36	53.98	10.62	AV
5470	53.93	9.34	V	63.27	68.20	4.93	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch
RU offset.	53

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	52.50	9.30	H	61.80	73.98	12.18	PK
5460	32.50	9.30	H	41.80	53.98	12.18	AV
5470	51.66	9.34	H	61.00	68.20	7.20	PK
5460	52.28	9.30	V	61.58	73.98	12.40	PK
5460	32.23	9.30	V	41.53	53.98	12.45	AV
5470	51.24	9.34	V	60.58	68.20	7.62	PK

3.4) 242 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	59.94	9.11	H	69.05	73.98	4.93	PK
5150	34.71	9.11	H	43.82	53.98	10.16	AV
5150	59.71	9.11	V	68.82	73.98	5.16	PK
5150	34.50	9.11	V	43.61	53.98	10.37	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	64

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	57.89	8.71	H	66.60	73.98	7.38	PK
5350	37.25	8.71	H	45.96	53.98	8.02	AV
5350	58.18	8.71	V	66.89	73.98	7.09	PK
5350	37.47	8.71	V	46.18	53.98	7.80	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	52.01	9.30	H	61.31	73.98	12.67	PK
5460	33.89	9.30	H	43.19	53.98	10.79	AV
5470	51.93	9.34	H	61.27	68.20	6.93	PK
5460	51.81	9.30	V	61.11	73.98	12.87	PK
5460	33.64	9.30	V	42.94	53.98	11.04	AV
5470	51.79	9.34	V	61.13	68.20	7.07	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch
RU offset.	61

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	56.66	9.30	H	65.96	73.98	8.02	PK
5460	33.27	9.30	H	42.57	53.98	11.41	AV
5470	55.42	9.34	H	64.76	68.20	3.44	PK
5460	56.31	9.30	V	65.61	73.98	8.37	PK
5460	33.03	9.30	V	42.33	53.98	11.65	AV
5470	55.18	9.34	V	64.52	68.20	3.68	PK

3.5) 484 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	60.64	9.11	H	69.75	73.98	4.23	PK
5150	36.55	9.11	H	45.66	53.98	8.32	AV
5150	60.34	9.11	V	69.45	73.98	4.53	PK
5150	36.23	9.11	V	45.34	53.98	8.64	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	66

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	57.76	8.71	H	66.47	73.98	7.51	PK
5350	39.42	8.71	H	48.13	53.98	5.85	AV
5350	57.91	8.71	V	66.62	73.98	7.36	PK
5350	39.60	8.71	V	48.31	53.98	5.67	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	51.65	9.30	H	60.95	73.98	13.03	PK
5460	34.82	9.30	H	44.12	53.98	9.86	AV
5470	55.52	9.34	H	64.86	68.20	3.34	PK
5460	51.37	9.30	V	60.67	73.98	13.31	PK
5460	34.68	9.30	V	43.98	53.98	10.00	AV
5470	55.29	9.34	V	64.63	68.20	3.57	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch
RU offset.	65

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	55.41	9.30	H	64.71	73.98	9.27	PK
5460	33.68	9.30	H	42.98	53.98	11.00	AV
5470	53.73	9.34	H	63.07	68.20	5.13	PK
5460	55.20	9.30	V	64.50	73.98	9.48	PK
5460	33.36	9.30	V	42.66	53.98	11.32	AV
5470	53.47	9.34	V	62.81	68.20	5.39	PK

3.6) 996 Tone

Band :	UNII 1
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5210 MHz
Channel No.	42 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5150	58.94	9.11	H	68.05	73.98	5.93	PK
5150	39.32	9.11	H	48.43	53.98	5.55	AV
5150	58.90	9.11	V	68.01	73.98	5.97	PK
5150	39.15	9.11	V	48.26	53.98	5.72	AV

Band :	UNII 2A
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5290 MHz
Channel No.	58 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5350	54.71	8.71	H	63.42	73.98	10.56	PK
5350	40.23	8.71	H	48.94	53.98	5.04	AV
5350	54.90	8.71	V	63.61	73.98	10.37	PK
5350	40.38	8.71	V	49.09	53.98	4.89	AV

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5530 MHz
Channel No.	106 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	51.64	9.30	H	60.94	73.98	13.04	PK
5460	38.89	9.30	H	48.19	53.98	5.79	AV
5470	53.25	9.34	H	62.59	68.20	5.61	PK
5460	51.48	9.30	V	60.78	73.98	13.20	PK
5460	38.62	9.30	V	47.92	53.98	6.06	AV
5470	52.96	9.34	V	62.30	68.20	5.90	PK

Band :	UNII 2C
Operation Mode:	802.11ax(HE80)
Transfer MCS Index:	MCS0
Operating Frequency	5610 MHz
Channel No.	122 Ch
RU offset.	67

Frequency [MHz]	Measured Level [dBµV]	AN.+CL-AMP +ATT.+D.F. [dB]	ANT. POL [H/V]	Total [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Measurement Type
5460	56.98	9.30	H	66.28	73.98	7.70	PK
5460	33.96	9.30	H	43.26	53.98	10.72	AV
5470	53.92	9.34	H	63.26	68.20	4.94	PK
5460	56.71	9.30	V	66.01	73.98	7.97	PK
5460	33.65	9.30	V	42.95	53.98	11.03	AV
5470	53.78	9.34	V	63.12	68.20	5.08	PK

Note:

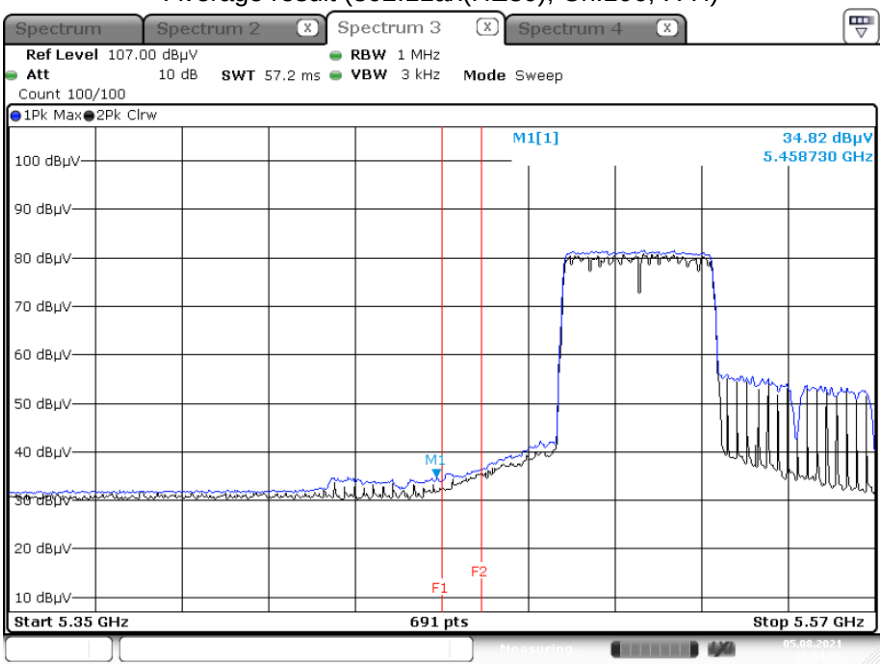
All Modes of operation were investigated and the worst case configuration results are reported.

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

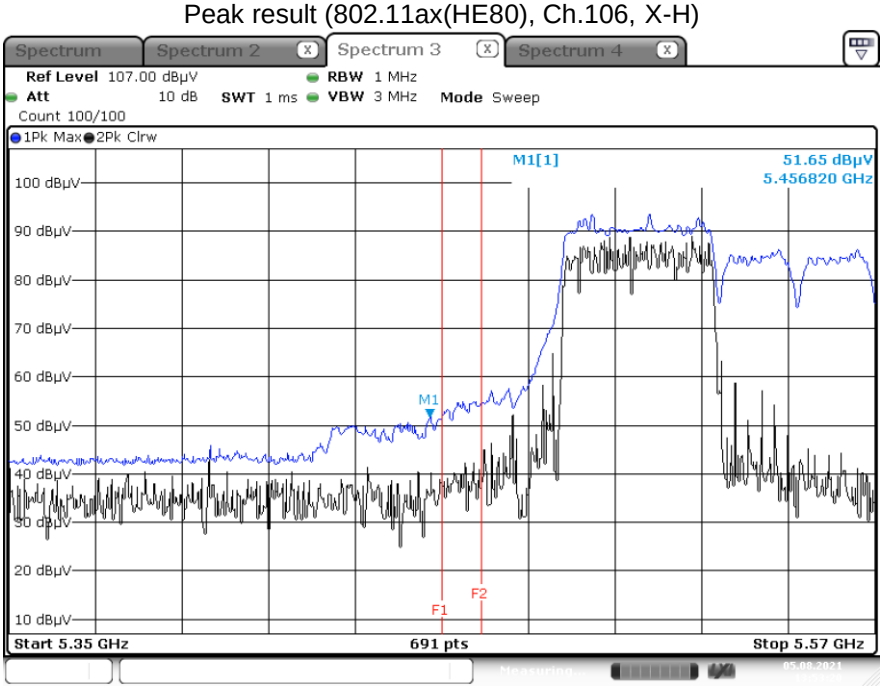
▣ Test Plots(UNII 1, 2A, 2C)

1) 484 Tone RU 65

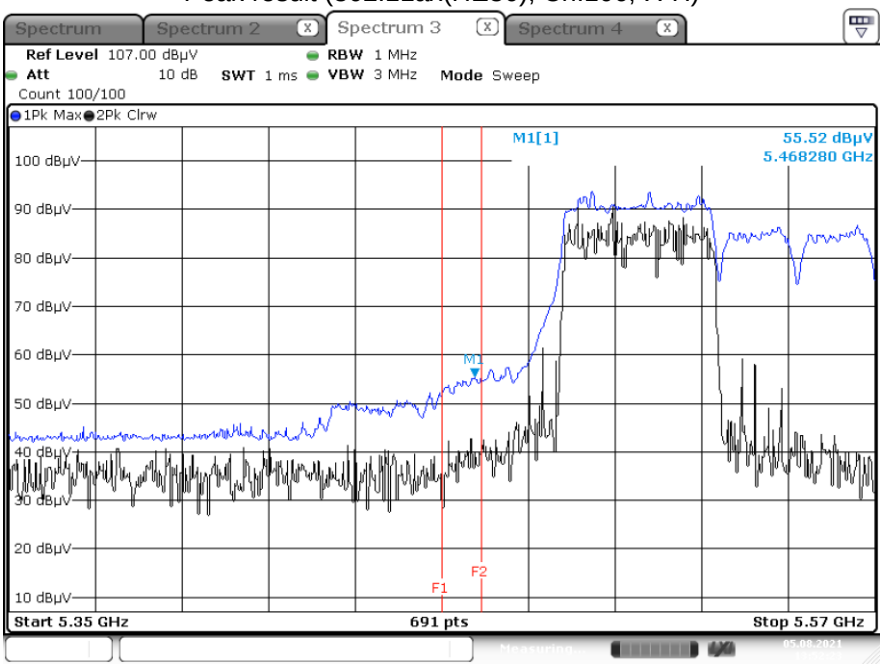
Average result (802.11ax(HE80), Ch.106, X-H)



Peak result (802.11ax(HE80), Ch.106, X-H)



Peak result (802.11ax(HE80), Ch.106, X-H)

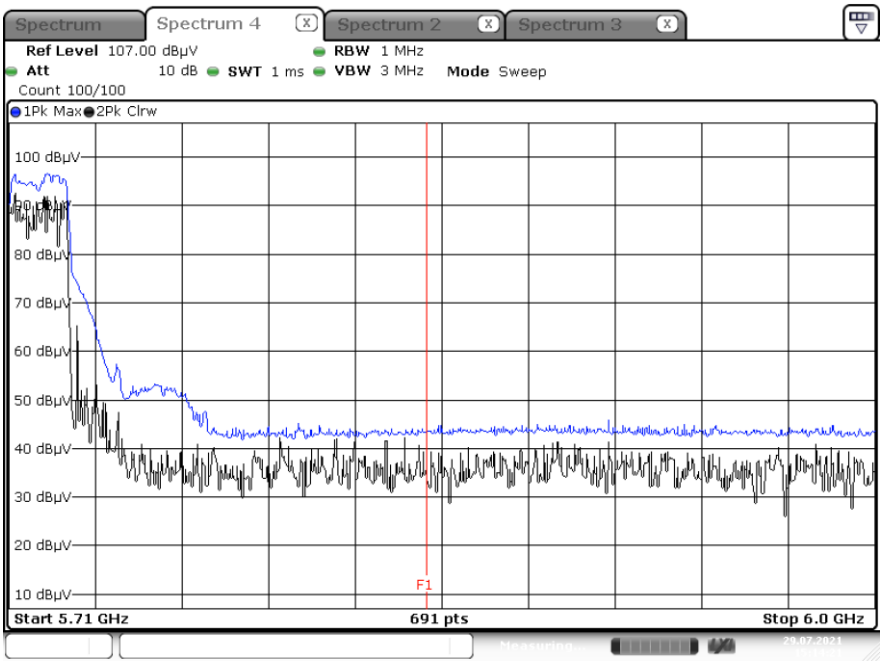


Note:

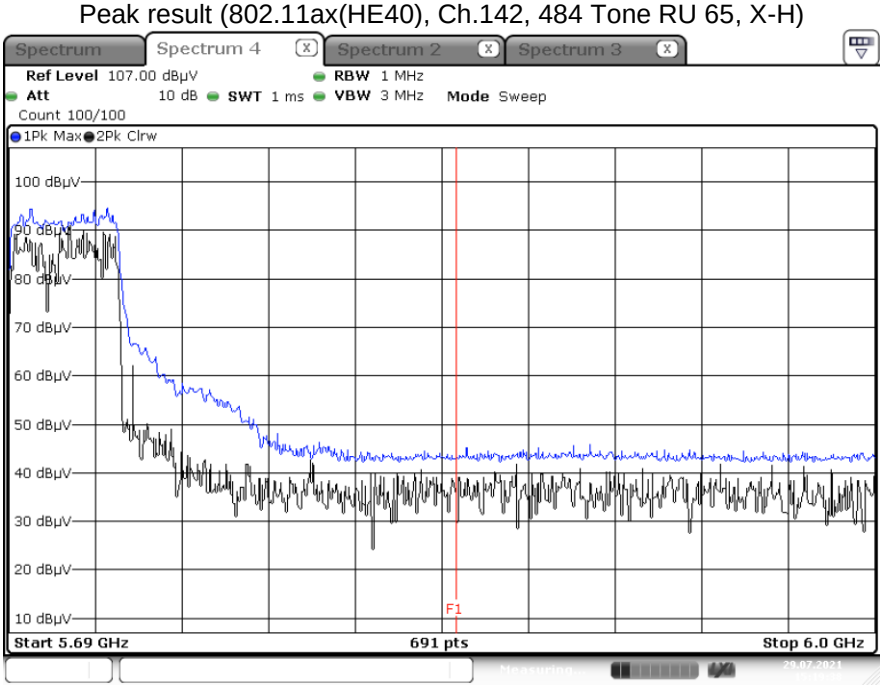
Only the worst case plots for Radiated Restricted Band Edge.

▣ Test Plots(Staraddle Channel)

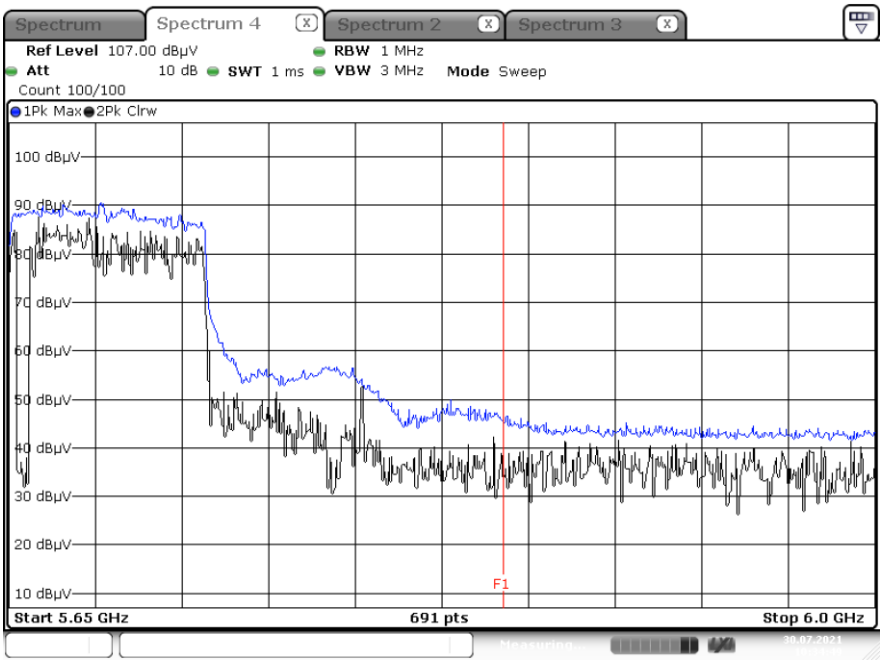
Peak result (802.11ax(HE20), Ch.144, 242 Tone RU 61, X-H)



Peak result (802.11ax(HE40), Ch.142, 484 Tone RU 65, X-H)



Peak result (802.11ax(HE80), Ch.138, 996 Tone RU 67, X-H)

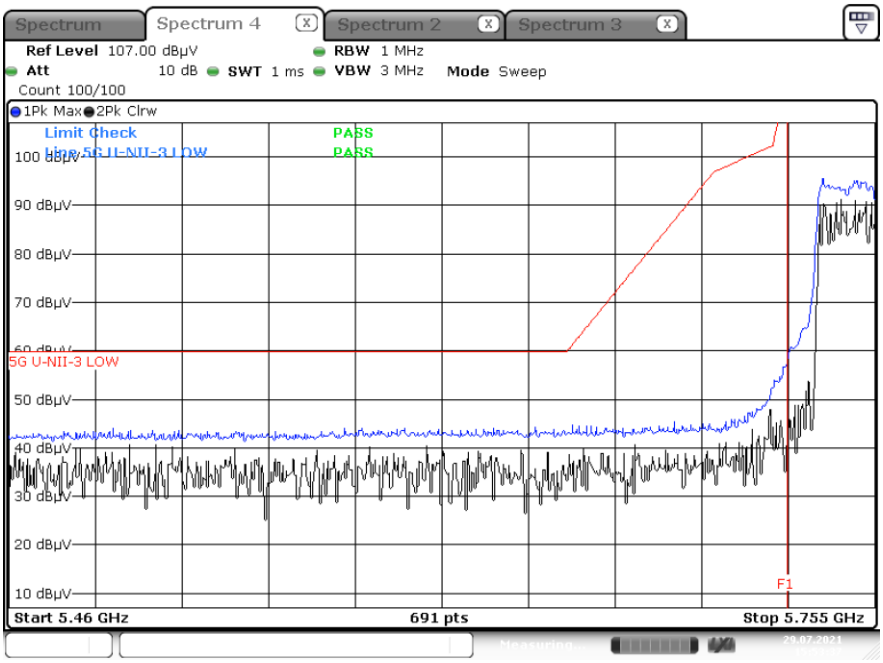


Note :

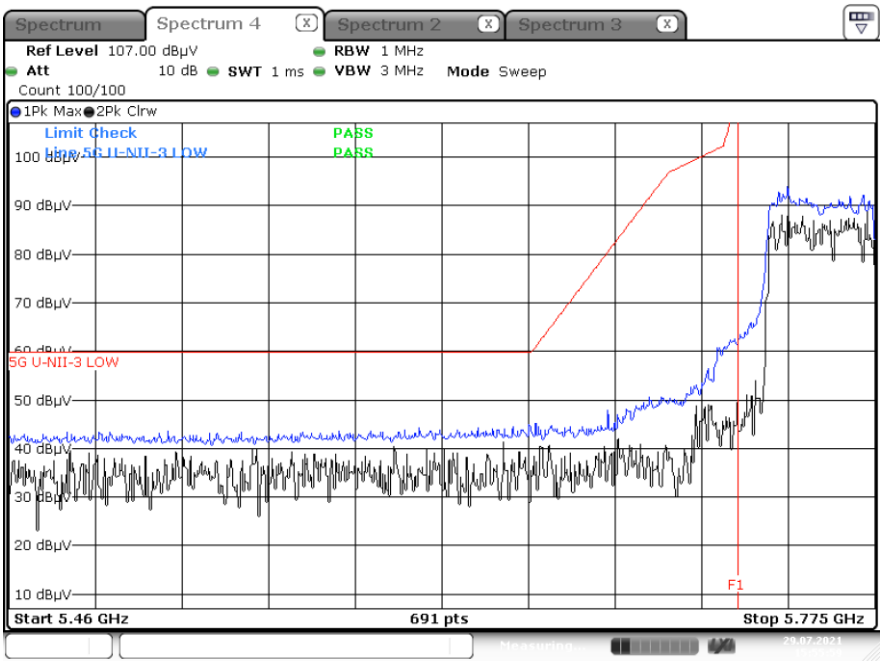
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

▣ Test Plots(UNII 3)

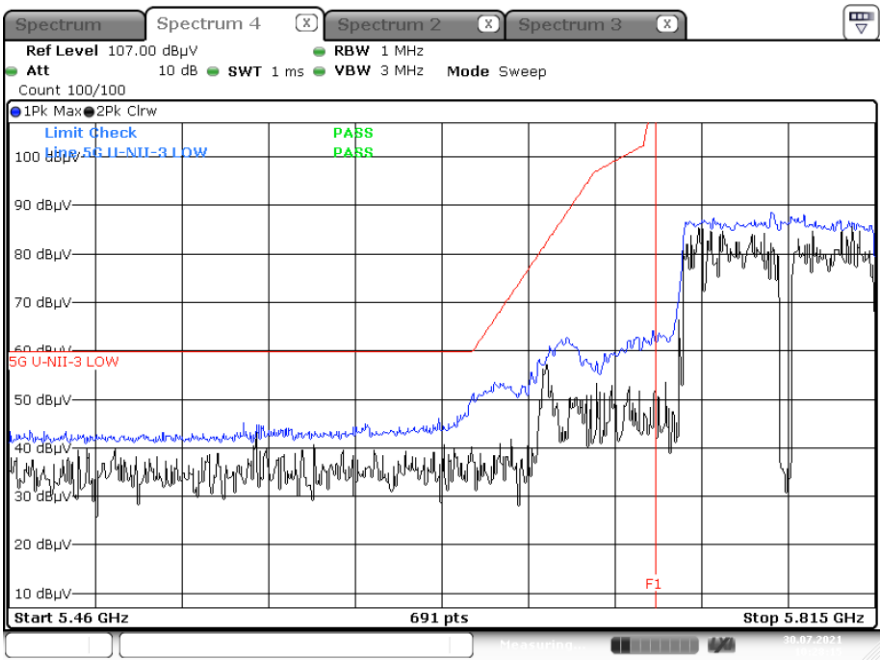
Peak result (802.11ax(HE20), Ch.149, 242 Tone RU 61, X-H)



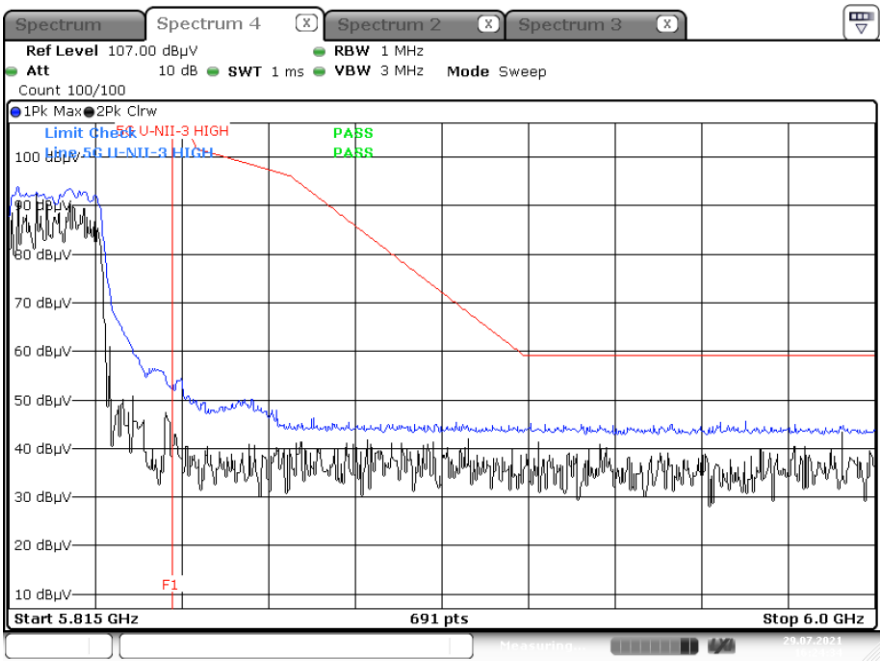
Peak result (802.11ax(HE40), Ch.151, 484 Tone RU 65, X-H)



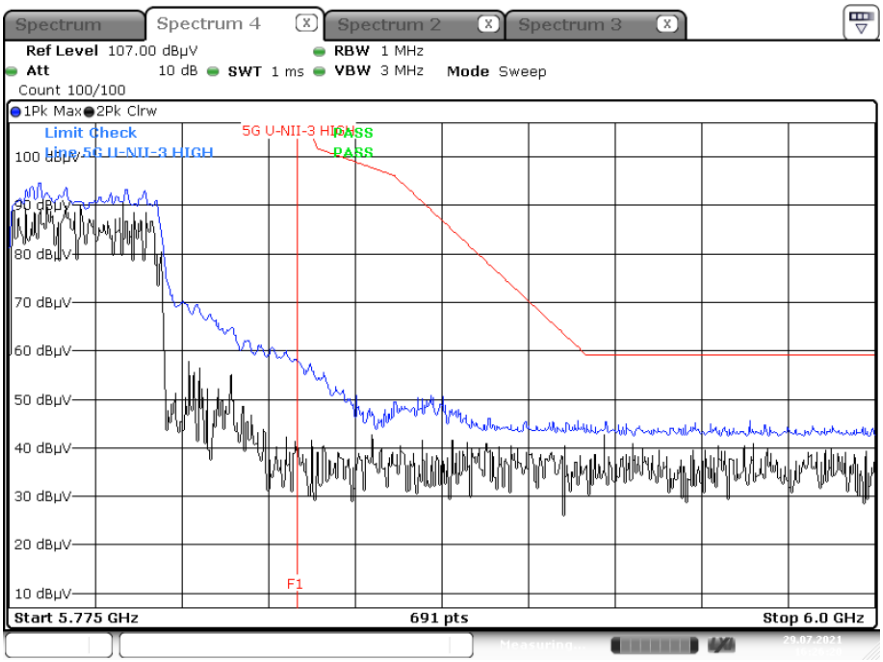
Peak result (802.11ax(HE80), Ch.155, 996 Tone RU 67, X-H)



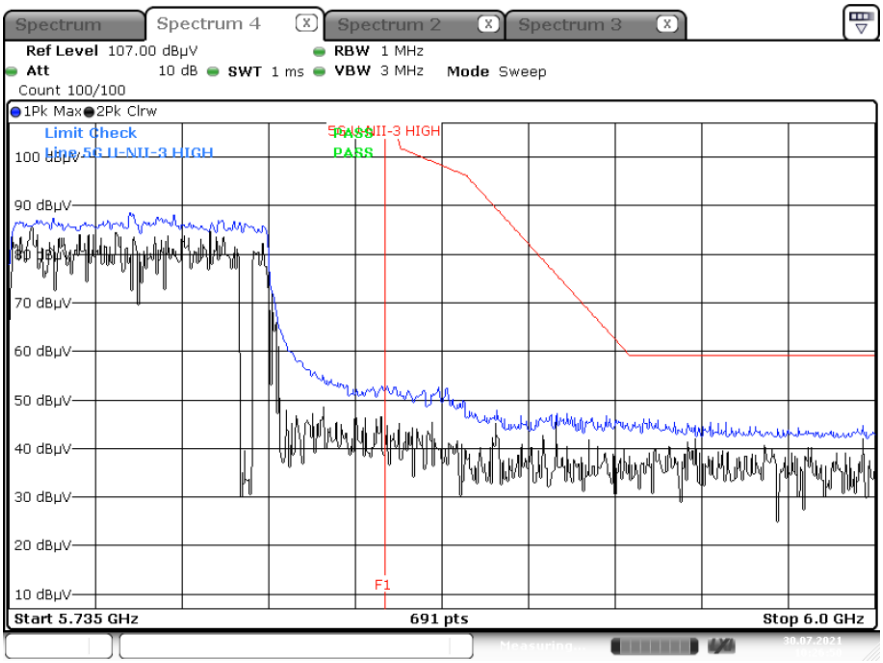
Peak result (802.11ax(HE20), Ch.165, 242 Tone RU 61, X-H)



Peak result (802.11ax(HE40), Ch.159, 484 Tone RU 65, X-H)



Peak result (802.11ax(HE80), Ch.155, 996 Tone RU 67, X-H)



Note :

1. Only the worst case plots for Radiated Band Edge(UNII-3).

11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	09/04/2020	Annual	102245
Rohde & Schwarz	ESR / EMI Test Receiver	06/17/2021	Annual	101910
ESPEC	SU-642 /Temperature Chamber	03/15/2021	Annual	0093008124
Agilent	N9030A / Signal Analyzer	03/09/2021	Annual	MY49432108
Agilent	N1911A / Power Meter	04/08/2021	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/08/2021	Annual	MY57820067
Agilent	87300B / Directional Coupler	11/10/2020	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	02/09/2021	Annual	10545
HP	E3632A / DC Power Supply	09/16/2020	Annual	MY40004427
HP	8493C / Attenuator(10 dB)(DC-26.5 GHz)	06/18/2021	Annual	07560
HP	8493C / Attenuator(10 dB)(DC-26.5 GHz)	06/28/2021	Annual	08285
Rohde & Schwarz	18N-20dB / Attenuator(20 dB)	03/08/2021	Annual	8
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
TNM system	FBSM-01B / Amp & Filter Bank Switch Controller	N/A	N/A	TM19050002
Schwarzbeck	Loop Antenna	03/19/2020	Biennial	1513-333
Schwarzbeck	VULB 9168 / Hybrid Antenna	09/04/2020	Biennial	0895
Schwarzbeck	BBHA 9120D / Horn Antenna	05/19/2020	Biennial	02296
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	04/12/2021	Biennial	BBHA9170124
Rohde & Schwarz	FSV(10 Hz ~ 40 GHz) / Spectrum Analyzer	05/14/2021	Annual	101055
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/06/2021	Annual	2
Wainwright Instruments	WRCJV12-4900-5100-5900-6100-50SS	06/24/2021	Annual	5
Wainwright Instruments	WRCJV12-4900-5100-5900-6100-50SS	06/24/2021	Annual	6
CERNEX	CBL18265035 / Power Amplifier	12/04/2020	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	03/23/2021	Annual	25956
TNM system	FMSR-05B / HPF(3~18GHz) + LNA1(1~18GHz)	01/20/2021	Annual	F6
TNM system	FMSR -05B / ATT(10dB) + LNA1(1~18GHz)	01/20/2021	Annual	None
TNM system	FMSR -05B / ATT(3dB) + LNA1(1~18GHz)	01/20/2021	Annual	None
TNM system	FMSR -05B / LNA1(1~18GHz)	01/20/2021	Annual	25540
TNM system	FMSR -05B / HPF(7~18GHz) + LNA2(6~18GHz)	01/20/2021	Annual	28550
TNM system	FMSR -05B / Thru(30MHz ~ 18GHz)	01/20/2021	Annual	None

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2108-FC007-P